

X-75506

ENGINEERING REFERENCE DATA

UNIVERSAL-TYPE
KEYS
FOR SWITCHBOARDS

BELL TELEPHONE LABORATORIES

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<u>KEY</u>	<u>PAGE</u>	<u>KEY</u>	<u>PAGE</u>	<u>KEY</u>	<u>PAGE</u>
C2T	382	C3G	385	C7B	394
C2U	382	C3H	385	C7D	393
C2W	382	C3J	386		
C2Y	382	C4	387		
C2AA	382	C5B	388		
C3	383			C9	396
C3A	384			C10	397
C3C	384			C11A	398
C3D	384				
C3E	384	C7	391		
C3F	385	C7A	393		

E KEYS

E1	399	E1BU	404	E1CS	402
E1AJ	402	E1EW	400	E1CT	405
E1AL	404	E1BY	405	E1CU	405
E1AM	403	E1CA	406	E1CW	406
E1AP	402	E1CB	405	E1CY	401
		E1CC	401	E1DB	406
E1AS	403	E1CG	405	E1DJ	400
E1AT	404	E1CH	404	E1DK	402
E1AU	402	E1CJ	400	E1DL	401
E1ED	406	E1CK	403		
E1EG	403	E1CL	406	E2B	408
E1BJ	403	E1CN	400	E5A	409
E1BK	404	E1CP	401		
E1BT	400	E1CR	407		

G KEYS

G1	411	G1E	412	G1K	418
G1A	416	G1F	412	G1L	419
G1B	416	G1G	414	G1M	417
G1C	414	G1H	419	G1N	420
G1D	413	G1J	413	G1P	417

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INDEX (Contd.)

G KEYS (Contd.)

<u>KEY</u>	<u>PAGE</u>	<u>KEY</u>	<u>PAGE</u>	<u>KEY</u>	<u>PAGE</u>
G1R	418	G1AP	416	G3	425
G1S	414	G1AR	415	G3B	426
G1T	412	G1AS	420	G3C	426
G1U	412	G1AT	416	G3D	426
G1W	413	G1AU	416A	G3H	426
G1Y	419	G1AW	420	G3J	426
G1AA	420	G1AY	418A	G3K	426
G1AB	415	G1BA	416	G6	427
G1AC	416	G1BB	420A	G6A	428
G1AD	414	G1BC	418A	G6B	428
G1AE	417	G1BD	418A	G6C	429
G1AF	413	G2	423	G6D	428
G1AG	418	G2A	424	G6E	429
G1AH	420A	G2B	424	G6F	428
G1AJ	415	G2C	424		
G1AK	418	G2D	424		
G1AL	417	G2E	424		
G1AM	419				
G1AN	415				

MODIFIED NUMBER-CODED KEYS

<u>KEY</u>	<u>PAGE</u>	<u>KEY</u>	<u>PAGE</u>
214AU	205 & 206	273DU	202 & 203
214DU	205 & 206	273GU	204
217AU	199 & 200	290CU	196
217BU	199 & 200	408AU	210
227AU	201	408BU	208 & 209
227BU	198	408EU	208 & 209
273CU	202 & 203	478DU	197

INTRODUCTION

This Engineering Reference Data Bulletin contains information on universal-type keys for switchboards designed by the Bell Telephone Laboratories, Incorporated, for other than Military Applications and manufactured by the Western Electric Company or by other suppliers in accordance with specifications prepared by the Laboratories. It is intended for use primarily by engineers of the Laboratories, and contains information on apparatus of all ratings and classifications except that rated Manufacture Discontinued. Apparatus codes rated AT&TCo. Standard, A&M Only, Component Part, Non-Associate, and codes classified ML are included. Information concerning keys with numerical codes is contained in Engineering Reference Data bulletin X-75507.

Information regarding preferred codes has not been included in this bulletin but will be added when available.

It is planned to bring this bulletin up to date periodically. However, the information contained herein may not be complete and ratings of the items are not shown. Therefore, the final selection of apparatus should be made on the basis of the usual sources of information such as the Western Electric Apparatus Card Catalog, the manufacturing specifications, and price data. For information regarding the output of apparatus, refer to the Western Electric Report A-822.1.

The bulletin contains some codes of apparatus for which catalog cards will not be found in the Western Electric Apparatus Card Catalog. Such codes are in general rated "Component Part". This rating is applied to apparatus where it is believed that the associated companies will have no need for apparatus card catalog information and orders for the apparatus from the field are not expected.

When apparatus which is not listed on a white card in the Western Electric Apparatus Card Catalog is selected for use in new applications, the Standards Engineer, Department 5241, Bell Telephone Laboratories, Incorporated, 463 West Street, New York 14, N.Y. should be notified of the new use and probable demand so that consideration can be given to rerating the apparatus.

When such new applications are made within the Laboratories, the selection should first be discussed with the department responsible for the design of the apparatus.

GENERAL

Universal-type keys are those which are arranged to mount in a universal-type keyshelf. The keys are equipped with mounting studs at each end which fit into mounting slots (except G-type keys whose studs are arranged to mount on single mounting bars only) running lengthwise of the keyshelf. Keys of any width may be mounted together but must be of the same length.

Universal-type keys have black keytops with white engraving, and nickel-finished key levers, unless otherwise stated in the tables. Colors of key lever handles and push buttons are as stated in the tables.

In coding these keys, they have been divided into A, B, C, etc. types according to their length. For example, all A-type keys are of the same length. They have been further divided into types according to the units mounted on the key (i.e. types designated by codes beginning A1, A2, A3, etc.). The units mounted on the keys consist of lever-type key units, push buttons, turn button units, lamp sockets, etc. The spacing of these units in any one type (i.e. A1-type, A2-type, etc.) is always the same,* so that when different keys of the same types are mounted together in a switchboard the units will line up with each other.

*except in the B18 types where some are intended to mount with push buttons at rear of keyshelf and others with push buttons towards the front.

For example, if the maximum number of lever units in a type is two, any lever unit in a key of that type will be mounted in one of the two positions, thus lining up with the lever units in other keys. However, not all keys of a given type (such as A1-type, A2-type, etc.) are equipped with the same number of units. Some positions may be blank.

It will be noted from the information on the individual keys, that certain components have been coded as "key units". This is for reference purposes and they are not complete keys.

Contacts

The type of contact metal and size of contact required is determined by the current carrying capacity and number of operations required.

Where the contact makes or breaks less than 0.5 ampere, a key having No. 1 contact metal is satisfactory. If the current is more than 0.5 ampere and less than 1.0 ampere, No. 2 contact metal is recommended. These recommendations are based on a potential difference of 50 volts dc noninductive.

The standard size contact provided on keys is sufficient for making and breaking circuits to a single telephone relay of 700 ohms or higher resistance, with a life of 500,000 operations. The heavy size contact provided is sufficient for making and breaking circuits to a single relay of 700 ohms or higher resistance and the contacts will last for the life of the key.

The average life of a key will vary to some extent with the spring pile-up; lighter pile-ups have longer life. When operating or releasing highly inductive loads such as several relays in parallel, consideration should be given to applying a capacitor-resistance network around the contact.

Other contact metals are available for special conditions. Any question pertaining to contacts and contact metals should be referred to the Contact Group of Switching Systems Development 1.

Key Spaces

A-, B-, C-, E-, and G-type key spaces for use with A-, B-, C-, E-, and G-type keys are listed in the Western Electric Apparatus Card Catalog.

Key Mountings

The following key mountings are available for mounting keys in switchboards. For further information, see Card Catalog.

<u>Key Mounting</u>	<u>Used With</u>
355 & 356	E Type
362	A, B, & C Types
363	A, B, & C Types
381	C Types and misc. apparatus

38-type Shields

These shields may be used on keys to reduce the accumulation of dust on the contacts. They consist of a sheet of insulating material cut to shape and creased to facilitate folding.

A list of the shields available may be found in the Card Catalog.

Lamp Sockets

All lamp sockets fit No. 2-type lamps and No. 2-type lamp caps.

Number Plates

160A, 161A, 161B, 162A, 162B, 163A, and 163B number plates designed to mount on universal-type keytops are available with or without engraving.

DIRECTIONS FOR SELECTING A KEY

1. In order to select a universal-type key, the engineer must know the dimensions of the keytop required. The keytop lengths and the mounting centers of the various types are given at the heads of the various tables on pages 1 to 8 and the available keytop widths are given in the extreme left-hand columns. The specific type required can then be selected from the information in the remaining columns.

The column headed "Maximum Number in Type" is principally of use when requesting the issuance of a new code from the design group. It should be noted that the column headed "Number of Units in Existing Codes" indicates the various numbers available in existing keys.

In some cases, the same number of units (lever units, push button units, etc.) can be found in different types of keys having keytops of the same dimensions. In such cases, the several types will have to be examined under their specific codes.

2. Count the number of makes, breaks, transfers, etc. required in the circuit for the key desired. Then calculate the total number of contact springs required (cushion springs, buffer springs, and lamp socket springs should not be included). It should be borne in mind that this calculation may not be exact, and that in certain cases the same results can be obtained with a slightly different number of springs.
3. Turn to the pages referring to the type of key which has been selected in accordance with directions 1 and 2. The number of contact springs is given in the left-hand column. Examine the schematics and other information for the keys having approximately the calculated number of contact springs. If there is any existing key meeting the necessary requirements, it can be readily determined.

TABLES

Lever units listed in the columns headed "Std. 3 Pos. 2 Way" include the following:

- 2-way units, with normal position in the center (3 Pos.)
- 1-way units, with normal position in the center (2 Pos.)

Lever units listed under "3 Pos. 1 Way" have the normal position at one side of the center.

Anticapacity units have contact springs which slide over contact segments. For their electrical characteristics see the information on the various types of keys including such units.

TABLES, A- TO G-TYPE KEYS

The references underneath the schematic diagrams refer to exceptions to the standard sequence and click requirements. These exceptions should always be consulted as they may alter the performance of the key in important details.

Special contact size or material is noted. All contacts are No. 1 contact metal unless otherwise noted.

Cushion springs in lever-type key units (see notes in tables) are for the purpose of eliminating mechanical noise due to snapping back the lever. Information regarding cushion springs in certain push button keys can be obtained from the manufacturing drawings.

Contacts shown without arrowheads are for ringing only.

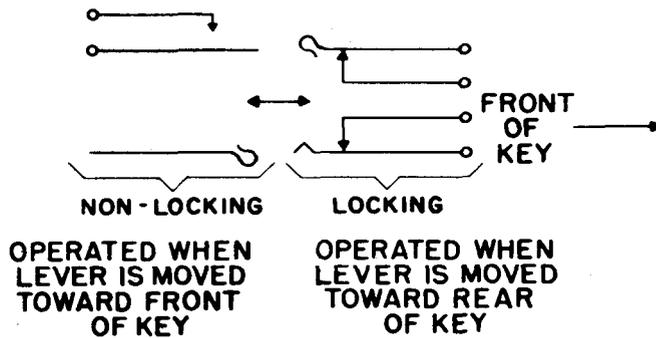
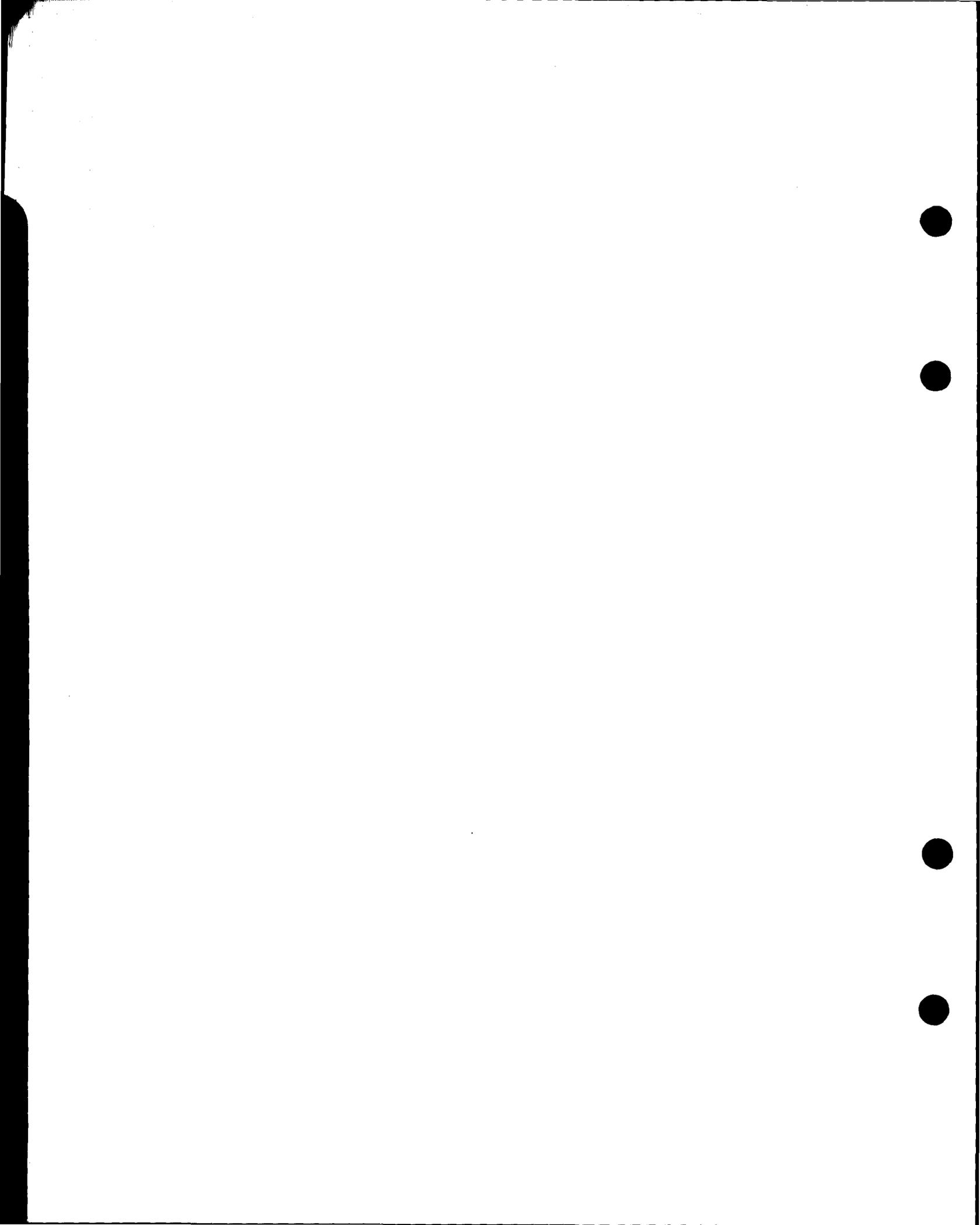


FIG. 1

The spring combinations shown in Tables A- to G-type keys are shown in the same manner as those used in Card Catalog illustrations and on SD circuit drawings, i.e. viewed from the terminal end. The arrow indicates the direction of movement of the lever roller. When the key lever is moved toward the front, the roller moves toward the rear and operates the rear group of springs. The front springs are operated by a rearward movement of the key lever. See Fig. 1.

Where a double-headed arrow is shown in the schematic, the unit is for 2-way operation. A single-headed arrow indicates 1-way operation.





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A-TYPE KEYS

LENGTH OF KEY TOP 7-1/2", MOUNTING CENTERS 6-31/32"

WIDTH OF KEY TOP	LEVER UNITS			PUSH BUTTON UNITS		TURN BUTTON UNITS		LAMP SOCKETS		KEY TYPES OR CODES	REFER TO PAGE
	MAX. NO. OF UNITS IN TYPE		NUMBER OF UNITS IN EXISTING CODES	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES	MAX. NO. IN TYPE	NO. IN EXISTING CODES		
	STD. 3 POS. 2 WAY	3 POS. 1 WAY									
1/2"				12	6 or 12					A3A and A3B Keys	108
9/16"				6	2, 3, 4, 5, or 6*					A6 Type	119-121
				5	5**					A7 Type	122
				7	1, 2, 3, 4, 5, 6, or 7					A10 Type (except A10J and A10AA)	136-140
				7	5 or 7					All Type (listed in table under 9/16" width)	144
				4	4					A24 Type	177
5/8"				12	6, 12					A3 Type (except A3A, A3B)	108-109
27/32"	3		1, 2, or 3							A1 Type	10-82
	2		0, 1, or 2	2	1 or 2					A2 Type	84-96
	1		1			1	1			A4C Key	112
	3		1, 2, or 3					1	1	A5 Type	114-116
	1		1	5	4 or 5 (a)					A8 Type	124-126
	1		1	6	2, 4, 5,** or 6					A9 Type	128-133
				7	2 or 5					A10J and A10AA Keys	141

*2 or 4 indicating buttons
 **4 indicating buttons

Std. 3 Pos. 2 Way Lever Units include those arranged to operate one way, with two positions.

Jan 1954

Table - A-type Keys

A-TYPE KEYS (Contd.)

LENGTH OF KEY TOP 7-1/2", MOUNTING CENTERS 6-31/32"

WIDTH OF KEY TOP	LEVER UNITS			PUSH BUTTON UNITS		TURN BUTTON UNITS		LAMP SOCKETS		KEY TYPES OR CODES	REFER TO PAGE	
	MAX. NO. OF UNITS IN TYPE		NUMBER OF UNITS IN EXISTING CODES	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES	MAX. NO. IN TYPE	NO. IN EXISTING CODES			
	STD. 3 POS. 2 WAY	3 POS. 1 WAY										
27/32" (Contd.)				7	1, 2, 3, 4, 5, or 7					All Type (listed in table under 27/32" width)	145-152	
	1		1	5	2, 3, 4, or 5					A13 Type	154-156	
	1		1	6	3, 4, 5, or 6					A14 Type	158-161	
	2		1 or 2	2	0, 1, or 2			2	0, 1, or 2	A18 Type	168-176	
	3		3	1	1					A20 Type	176A	
		2	2							A26 Type	178	
				1	1			1	1	A27 Type	179	
				2	1 or 2			2	2	A28 Type	180	
	1		1					1	1	A29 Type	181	
	1	2	3							A31 Type	184	
		3	3							A32 Type	185	
				3	2 or 3			3	3	A34 Type	188	
	3		1, 2, or 3					2	1 or 2	A35 Type	190-191	
				7	6 or 7					A36 Type	194	
1"				6	6					A30 Type	182	
1-1/32"						1	1			A4A Key	112	

Std. 3 Pos. 2 Way Lever Units include those arranged to operate one way, with two positions.

Table - A-type Keys (Contd.)

April 1961

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B-TYPE KEYS

LENGTH OF KEY TOP 4-9/16", MOUNTING CENTERS 4-1/32"

WIDTH OF KEY TOP	LEVER UNITS		NUMBER OF UNITS IN EXISTING CODES	PUSH BUTTON UNITS		TURN BUTTON UNITS		LAMP SOCKETS		KEY TYPES OR CODES	REFER TO PAGE
	MAX. NO. OF UNITS IN TYPE			MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES	MAX. NO. IN TYPE	NO. IN EXISTING CODES		
	STD. 3 POS. 2 WAY	3 POS. 1 WAY									
1/2"				6	6					B11C Key	288
9/16"				2	1 or 2					B3A, B3C, and B3D Keys	274
5/8"				2	2			2	2	B5 and B6 Type	275
				3	1, 2, or 3			3	1, 2, or 3	B7 Type	278-280
				4	1, 2, or 4					B8 Type	282-283
				6	6					B11A and B11B Keys	288
				1	1			2	2	B25A Key	303
27/32"	2		1 or 2							B1 Type (listed in table under 27/32" width)	212-262
				2	2					B3E Key	274
		2	2							B10 Type	287
	1		1					1	1	B14 Type	289
	1	1	2							B15H Key	291
	1		1	1	1					B17A Key	293
	1		0 or 1	2	1 or 2					B18 Type	296-299
				2	2					B19A Key	300
		1	1				1	1		B20A Key	301
				3	3					B23A Key	302
			5	5					B26A and B Key	304	

Aug 1954

Table - B-type Keys

3

Std. 3 Pos. 2 Way Lever Units include those arranged to operate one way, with two positions.

B-TYPE KEYS (Contd.)

LENGTH OF KEY TOP 4-9/16", MOUNTING CENTERS 4-1/32"

WIDTH OF KEY TOP	LEVER UNITS			PUSH BUTTON UNITS		TURN BUTTON UNITS		LAMP SOCKETS		KEY TYPES OR CODES	REFER TO PAGE
	MAX. NO. OF UNITS IN TYPE		NUMBER OF UNITS IN EXISTING CODES	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXIST- ING CODES	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXIST- ING CODES	MAX. NO. IN TYPE	NO. IN EXIST- ING CODES		
	STD. 3 POS. 2 WAY	3 POS. 1 WAY									
1-1/32"	2		1 or 2							B1 Type (listed in table under 1-1/32" width)	263-270
						2	1 or 2			B2 Type	272
	1		1			1	1			B9 Type	286

Std. 3 Pos. 2 Way Lever Units include those arranged to operate one way, with two positions.

Dec 1955

Table - C-type Keys

X-75506
C-TYPE KEYS

LENGTH OF KEY TOP 2-3/4", MOUNTING CENTERS 2-7/32"									
WIDTH OF KEY TOP	LEVER UNITS					PUSH BUTTON UNITS		KEY TYPES OR CODES	REFER TO PAGE
	MAXIMUM NUMBER OF UNITS IN TYPE			LEVERS BOUND TOGETHER (ACT AS ONE)	NUMBER OF UNITS IN EXIST- ING CODES	MAX. NO. IN TYPE	NO. IN EXIST- ING CODES		
	STD. 3 POS. 2 WAY	3 POS. 1 WAY	ANTI- CAPAC- ITY						
9/16"						2	1 or 2	C2	382
						2	2	C5 Type	388
27/32"	1				1			C1	306 - 379
		1			1			C3 Type	384-386
			1		1			C4 Type	387
1-11/16"	2			✓	2			C7 Type	392-394
			2	✓	2			C9A and C9B Keys	396
			2		2			C11A Key	398
5-1/16"			6	✓	6			C10A and C10B Keys*	397

*Locks

Std. 3 Pos. 2 Way Lever Units include those arranged to operate one way, with two positions.

E-TYPE KEYS

LENGTH OF KEY TOP 11-1/16", MOUNTING CENTERS 10-17/32"

WIDTH OF KEY TOP	PUSH BUTTON UNITS		LAMP SOCKETS		KEY TYPES OR CODES	REFER TO PAGE
	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXIST- ING CODES	MAX. NO. IN TYPE	NO. IN EXIST- ING CODES		
3/4"	10	1 to 10			E1 Type	400-407
	2	2			E5A Key	409
1-1/2"	20	20			E2B Key	408

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Table - G-type Keys

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G-TYPE KEYS

LENGTH OF KEY TOP 5-1/2", MOUNTING CENTERS 4-31/32"								
WIDTH OF KEY TOP	LEVER UNITS		PUSH BUTTON UNITS		LAMP SOCKETS		KEY TYPES OR CODES	REFER TO PAGE
	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES	MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES	MAX. NO. IN TYPE	NO. IN EXISTING CODES		
27/32"	2	1 or 2			2	0, 1, or 2	G1 Type	412-420
	1	0 or 1	2	1 or 2	2	0, 1, or 2	G2 Type	424
			5	2, 3, 4, or 5	2	0, 1, or 2	G3 Type	426
	2	0, 1, or 2	1	1			G6 Type	428-429

Std. 3 Pos. 2 Way Lever Units include those arranged to operate one way, with two positions.

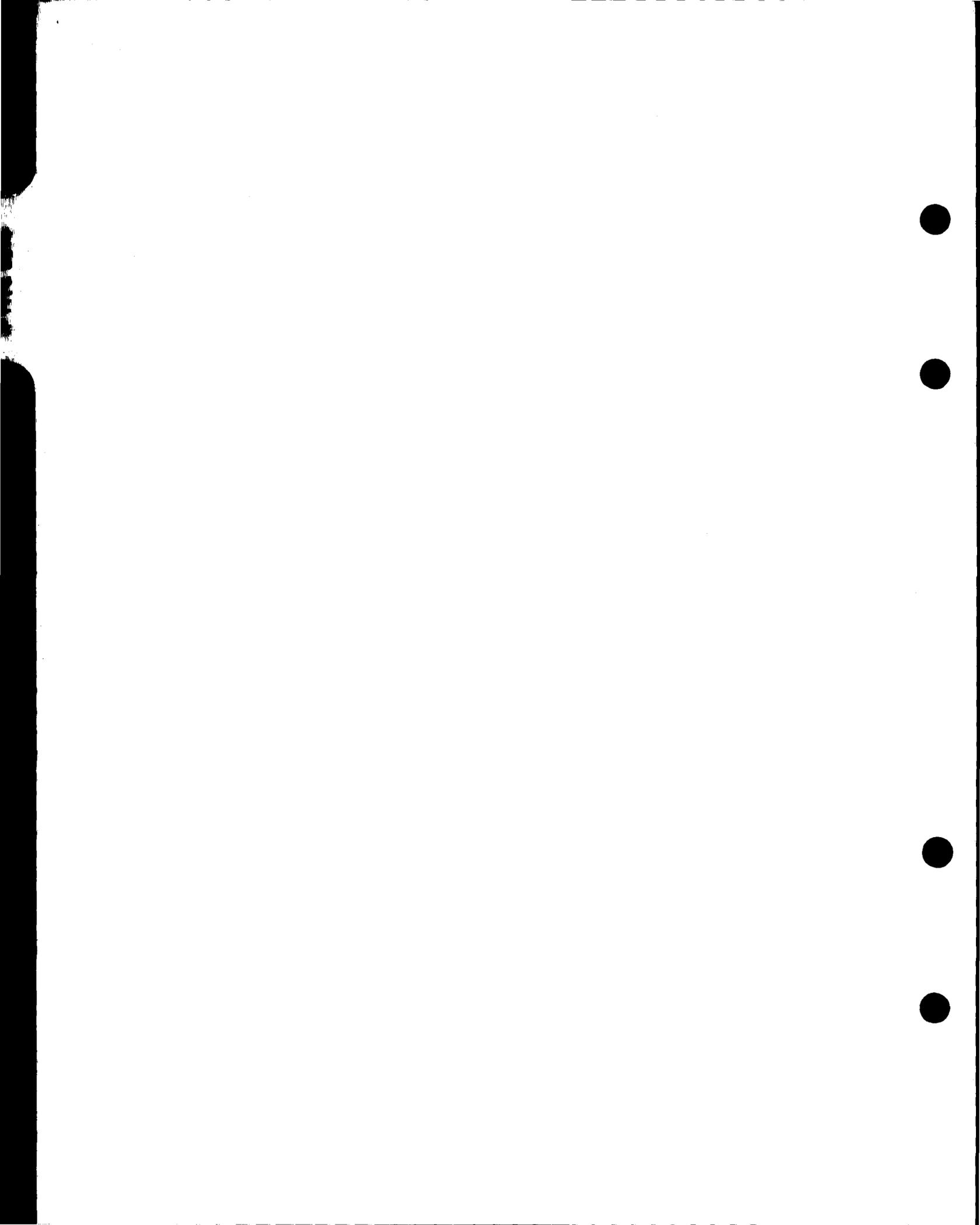
NUMERICALLY CODED KEYS FOR
UNIVERSAL TYPE SWITCHBOARDS

LENGTH OF KEY TOP 7-1/2", MOUNTING CENTERS 6-31/32"

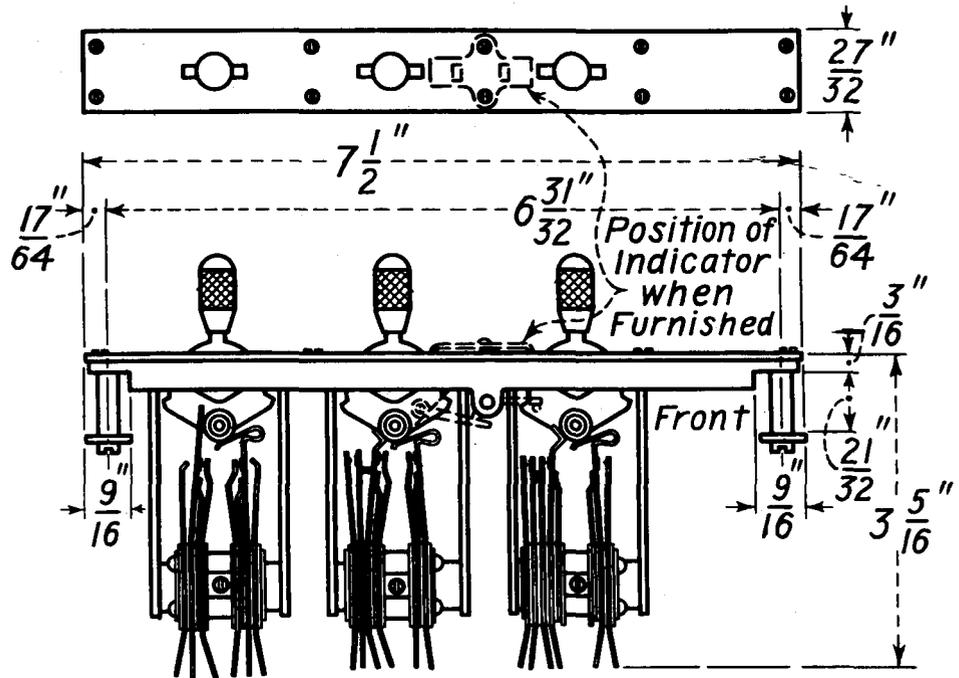
WIDTH OF KEY TOP	LEVER UNITS			PUSH BUTTON UNITS		KEY CODE	REFER TO PAGE
	MAXIMUM NUMBER OF UNITS IN TYPE			MAX. NO. UNITS IN TYPE	NO. UNITS IN EXISTING CODES		
	STD. 3 POS. 2 WAY	SLIDING HANDLE TYPE	LEVER HANDLE TYPE				
3/8"	1					290CU	196
			1	5	5	214AU	205-206
			1	5	5	214DU	205-206
				5	5	217AU	199-200
				5	5	217BU	199-200
			1	5	4	227AU	201
			1	5	4	227BU	198
27/32"			1	6	5	273CU	202-203
			1	6	5	273DU	202-203
			1	6	5	273GU	204
			1	7	7	408AU	210
			1	7	6	408BU	208-209
			1	7	6	408EU	208-209
			1				
1-1/32"		1				478DU	197

Table - Numerically Coded Keys





AL-TYPE KEYS



ALA Also General Design and Dimensions of Al Type

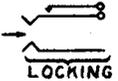
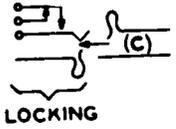
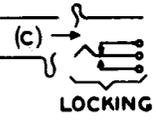
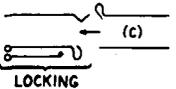
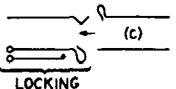
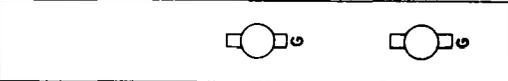
These keys are equipped with lever-type key units (three maximum) as indicated under the individual codes. A No. 38D shield can be used with these keys. The following keys are equipped with an indicator: ALAW, ALAY, ALBA, ALBB, ALBC, ALBD, ALEL, ALFN, ALFP, ALJM, ALRF, and ALTL.

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AI Keys

Oct 1957

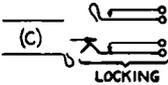
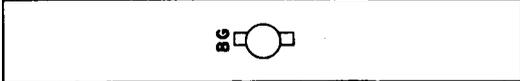
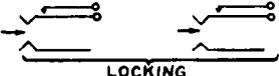
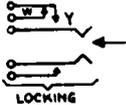
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
2	A1EJ	 4R, 12R			2HN BLACK			
3	A1WB	 4R, 12R			2 AHU RED			
3	A1WC	 12R			2 ACU BLACK			
4	A1CD	 4R, 12R	 4R, 12R		(d)2ACL BLACK	(d)2ACL BLACK		(d)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

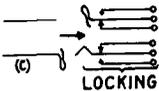
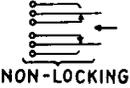
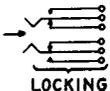
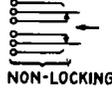
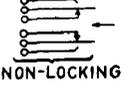
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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
4	A1DC		 <p>12R</p>			(e) 2ASJ BLACK		(e)
4	A1EH		 <p>4R, 12R</p>		(d) 2BY BLACK	(d) 2BY BLACK		(d)
4	A1WD		 <p>4R, 12R</p>			2 ABF RED		
5	A1SM			 <p>30B, 4R, 12R</p>		2AEB BLACK		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

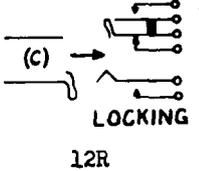
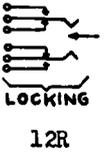
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
6	A1Y			 12R			(d) 2ACP BLACK	(d)
6	A1AA			 12R			2F BLACK	(a)
6	A1AD		 12R				2F BLACK	(a)
6	A1AE	 12R					(d) 2A BLACK	(d)
6	A1BP	 12R					2F BLACK	(a)
6	A1DJ			 12R			2F RED	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

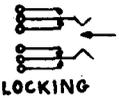
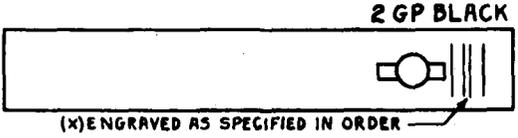
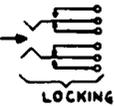
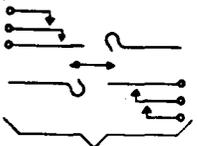
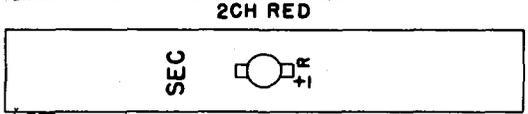
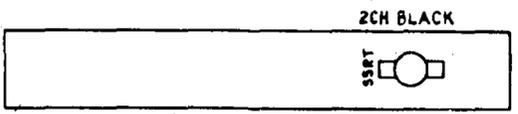
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AI Keys (Contd.)

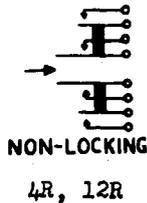
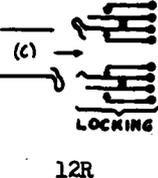
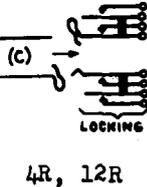
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
6	AIHL						2ABJ RED	
6	AINJ				2GP RED			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
6	A1PK			 <p>LOCKING 1B, 4R, 12R</p>			 <p>2 GP BLACK (X) ENGRAVED AS SPECIFIED IN ORDER</p>	(h)
6	A1SB		 <p>LOCKING 4R, 12R</p>			2GP RED		
6	A1AAE	 <p>NON-LOCKING 4R</p>				2ASF BLACK		
8	A1CU		 <p>LOCKING 12R</p>			 <p>2CH RED SEC</p>		
8	A1GW		 <p>LOCKING 12R</p>			 <p>2CH BLACK SSRT</p>		

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

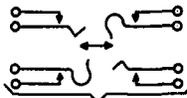
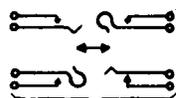
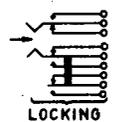
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CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
8	ALHH			 <p>NON-LOCKING 4R, 12R</p>			2MB BLACK	
8	ALLY			 <p>(c) LOCKING 12R</p>		 <p>(j) 2ACFBLACK TEST</p>		(t)
8	ALMC			 <p>(c) LOCKING 4R, 12R</p>			2ACD BLACK	

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AI Keys (Contd.)

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

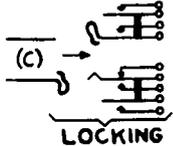
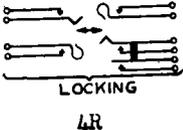
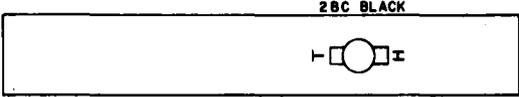
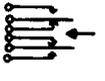
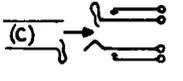
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT		MIDDLE UNIT		FRONT UNIT		REF. NOTES
					CODE	HDL	CODE	HDL	CODE	HDL	
8	A1RE			 <p>Locking 4R</p>						2BF BLACK	
8	A1SG			 <p>LOCKING 4R</p>						2BF BLACK	
9	A1BF			 <p>LOCKING 12R</p>						2CL BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
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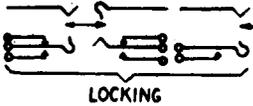
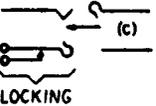
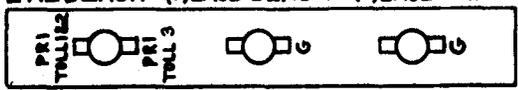
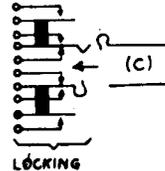
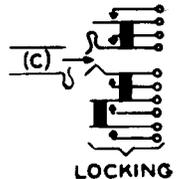
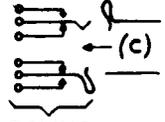
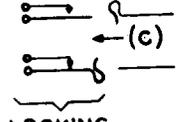
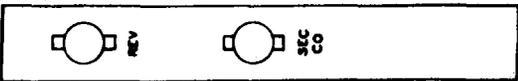
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AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
9	A1NN			 <p>LOCKING</p> <p>1B, 4R, 12R</p>			2ACY BLACK	
9	A1NP			 <p>NON-LOCKING</p> <p>1B, 4R, 12R</p>			2HY BLACK	
10	A1FR			 <p>LOCKING</p> <p>4R</p>		 <p>2BC BLACK</p>		
10	A1KF		 <p>NON-LOCKING</p> <p>4R, 12R</p>	 <p>LOCKING</p> <p>4R, 12R</p>		(f) 2RJ BLACK	2ABF BLACK	(f)

Numbers below schematics refer to requirement exceptions, see page 97
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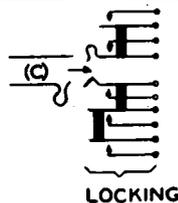
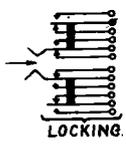
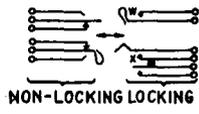
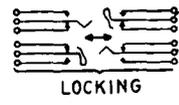
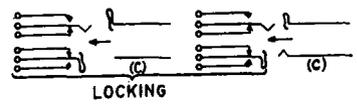
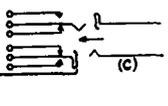
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES	
10	ALPH	 LOCKING 1B, 4R, 12R	 LOCKING 4R, 12R	 LOCKING 4R, 12R	2AL BLACK (d) 2ACL BLACK (d) 2ACL BLACK 			(d)	
10	ALUM			 LOCKING 1B, 4R, 12R		2AHD BLACK 			
10	ALWA			 LOCKING 4R, 12R			2ACC BLACK		
10	ALWE	 LOCKING 1B, 4R, 12R	 LOCKING 4R, 12R			2ABK RED 2ACW RED 			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

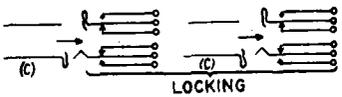
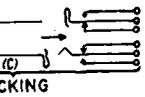
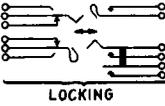
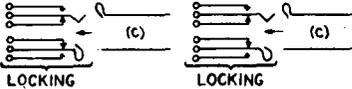
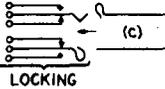
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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
10	A1WR		 <p>LOCKING</p> <p>4R</p>			2ACC BLACK		
12	A1T	 <p>LOCKING</p> <p>12R</p>			2GE BLACK			
12	A1U		 <p>NON-LOCKING LOCKING</p> <p>28B</p>				2N BLACK	(a)
12	A1AC		 <p>LOCKING</p> <p>30C</p>				(d) 2C BLACK	(d)
12	A1AG		 <p>LOCKING</p> <p>12R</p>	 <p>12R</p>		2ABK BLACK	2ABK BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
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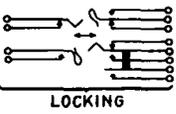
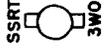
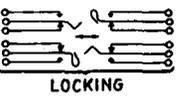
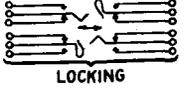
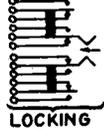
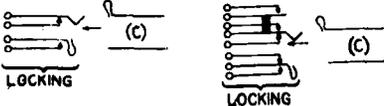
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
12	A1AH		 12R	 12R		(d) 2ACP BLACK	(d) 2ACP BLACK	(d)
12	A1AJ		 12R	 12R		2F RED	2F BLACK	
12	A1BL			 12R			2BM BLACK	(a)
12	A1CC		 12R	 12R		(d)2ACP BLACK	(d)2ACP BLACK	(d)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

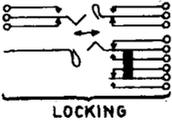
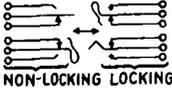
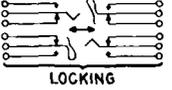
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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REF. NOTES
					CODE	HDL	CODE	
12	A1CH			 LOCKING			2ADK BLACK 	
12	A1CK			 LOCKING			2GR BLACK 	
12	A1CL			 LOCKING			2GR BLACK 	
12	A1CM			 LOCKING 12R			(d)2BH BLACK 	(d)
12	A1CN			 LOCKING 12R			2ASJ WHITE 	2ABE WHITE 

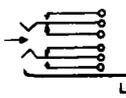
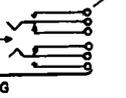
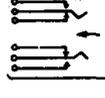
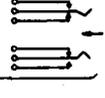
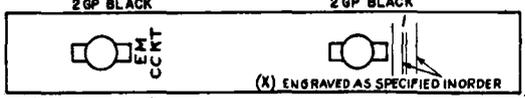
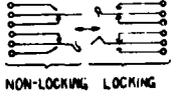
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REF. NOTES
					CODE	HDL	CODE	
12	A1CP			 LOCKING			2NK WHITE 	
12	A1CW		 NON-LOCKING				2DF RED 	(a)
12	A1DR	 NON-LOCKING	 LOCKING		2AB BLACK			(a)
12	A1DT	 LOCKING					(d) 2C BLACK	(d)
12	A1DW	 12R		 12R	2EE BLACK		2EE RED	

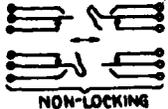
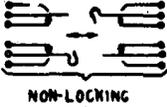
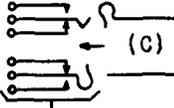
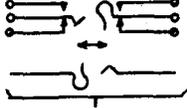
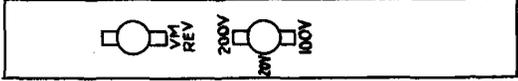
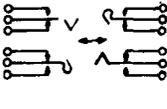
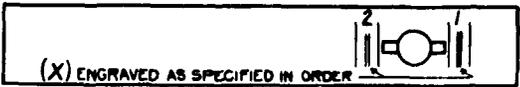
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
12	ALEK	 12R	 12R		(d) 2A BLACK	(d) 2A BLACK		(d)
12	ALFS	 12R		 12R				
12	ALFW	 NON-LOCKING LOCKING						(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

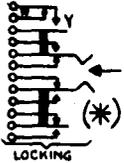
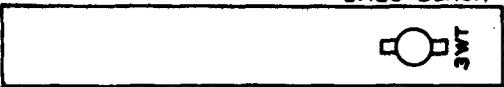
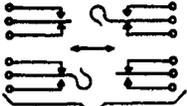
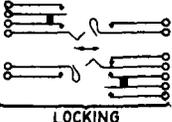
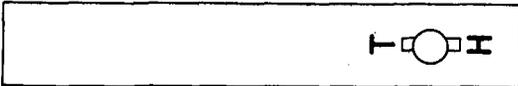
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
12	A1LP		 NON-LOCKING			 2 DF RED	(a)	
12	A1MK		 NON-LOCKING			 2 DF RED PRI 6 5 1 4 (X) ENGRAVED AS SPECIFIED	(a)	
12	A1WP	 Locking 4R, 12R	 Locking 4R, 12R			 2ABK BLACK 2AL WHITE		
12	A1PD			 LOCKING 1B, 4R, 12R		 2 GR BLACK (X) ENGRAVED AS SPECIFIED IN ORDER	(h)	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

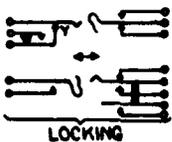
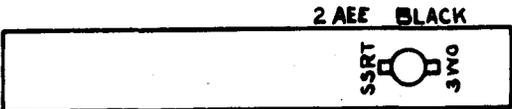
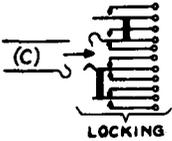
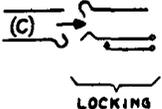
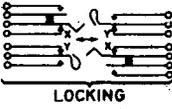
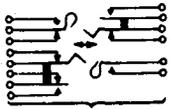
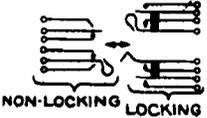
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Jan 1954

A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
12	A1RD	 <p>LOCKING 4R, 12R</p>			2GN BLACK			
12	A1SD		 <p>LOCKING</p>			2GR BLACK		
12	A1SL			 <p>LOCKING 5B, 12R</p>		 <p>2AES BLACK</p>	(u)	
12	A1YY		 <p>NON-LOCKING 1B, 4R</p>			2JP RED		
13	A1DG			 <p>LOCKING</p>		 <p>2P BLACK</p>		

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

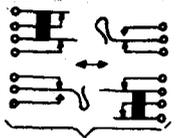
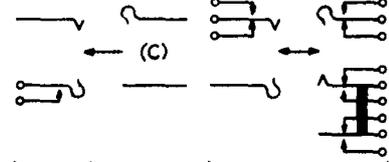
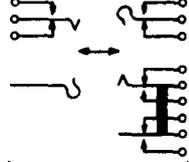
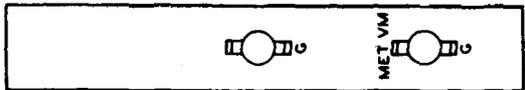
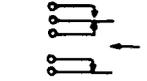
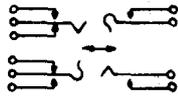
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
13	ALLS			 <p>LOCKING</p> <p>38B, 11C</p>			 <p>2 AEE BLACK</p>	
13	AIRG	 <p>LOCKING</p> <p>1B, 4R, 12R</p>		 <p>LOCKING</p> <p>4R, 12R</p>	2ABT BLACK		2ABU BLACK	
14	ALCE			 <p>LOCKING</p> <p>23B</p>			 <p>(d)2CA BLACK</p>	(d)
14	ALDU			 <p>LOCKING</p>			2DL BLACK	
14	ALEM			 <p>NON-LOCKING LOCKING</p>			2TD BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
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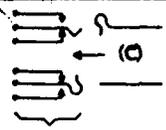
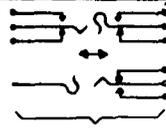
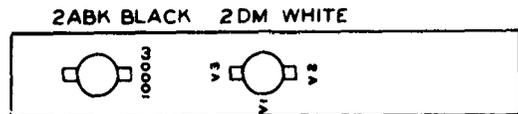
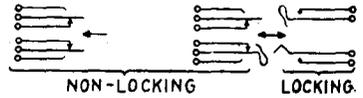
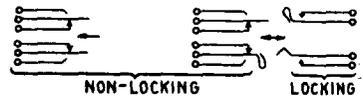
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Dec 1955

AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
14	A1WF	 <p>NON LOCKING</p> <p>12R</p>			(d) 2 AJN BLACK		(d)	
14	A1AAT		 <p>LOCKING</p> <p>4R, 12R</p>	 <p>LOCKING</p> <p>12R</p>		<p>(d) 2ACL BLACK (d) 2CN BLACK</p> 	(d)	
15	A1PM		 <p>NON-LOCKING</p> <p>1B, 4R, 12R</p>	 <p>LOCKING</p> <p>1B, 4R, 12R</p>		<p>2AAT RED 2EN BLACK</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

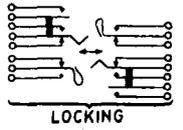
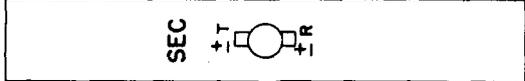
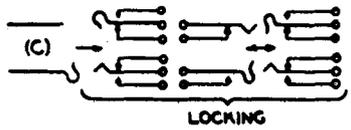
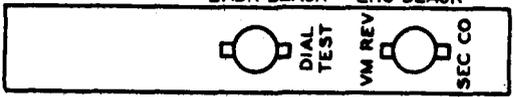
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
		15	ALWN	 LOCKING 2B, 4R, 12R	 LOCKING 2B, 4R, 12R			
16	ALAK		 NON-LOCKING LOCKING 12R			2F RED	2U BLACK	(a)
16	ALAY		 NON-LOCKING LOCKING 12R			2F RED	2U BLACK	(a,b)

Numbers below schematics refer to requirement exceptions, see page 97
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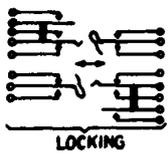
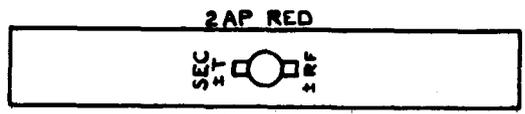
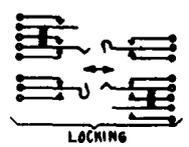
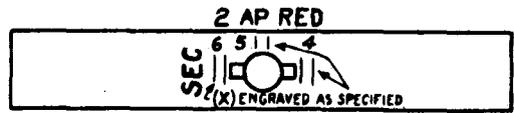
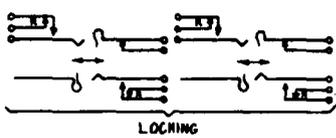
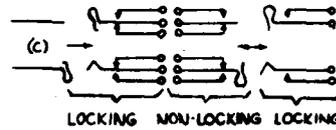
Oct 1957

AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
16	A1CT					<p>2AP RED</p> 		
16	A1JC					<p>2ABK BLACK 2HC BLACK</p> 		

12R

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

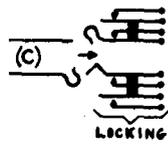
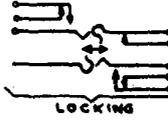
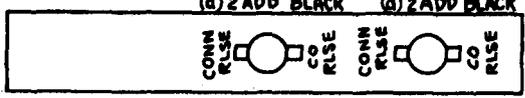
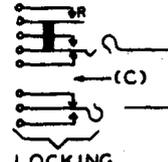
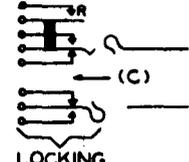
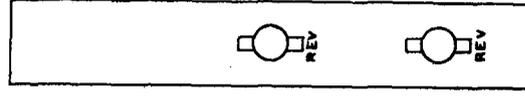
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
16	A1LR							
16	A1ML							
16	A1MP			36B	36B			
16	A1NF						2BK BLACK	2WU BLACK
				12R				

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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
16	A1RN		 <p>NON-LOCKING</p>	 <p>(C) LOCKING</p>		2ACE RED	2ACD BLACK	
16	A1RP		 <p>LOCKING</p>	 <p>LOCKING</p>		 <p>(d) 2 ADD BLACK (d) 2 ADD BLACK</p>		(d)
16	A1AAA		 <p>(C) LOCKING</p>	 <p>(C) LOCKING</p>		 <p>2 ABE BLACK 2 ABE BLACK</p>		(m)

Numbers below schematics refer to requirement exceptions, see page 97
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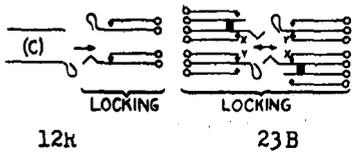
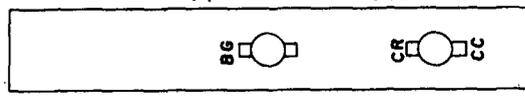
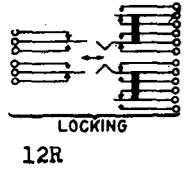
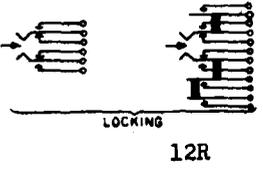
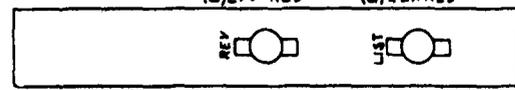
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17	AI FL	<p>LOCKING 4R, 12R</p>			<p>2GM BLACK (d) 2ACL BLACK 2ACW BLACK</p>			(d)
18	AI AF	<p>NON-LOCKING LOCKING 12R 71B</p>			2F RED		2N BLACK	(a)
18	AI AL	<p>NON-LOCKING LOCKING 12R 30C</p>			2F RED		2B BLACK	(a)
18	AI AW	<p>NON-LOCKING LOCKING 12R 71B</p>			2F RED		2N BLACK	(a,b)
18	AI BA	<p>NON-LOCKING LOCKING 12R 30C</p>			2F RED		2B RED	(a,b)

Numbers below schematics refer to requirement exceptions, see page 97
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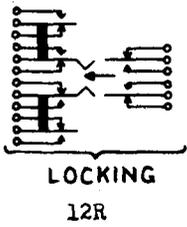
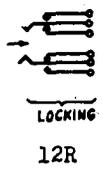
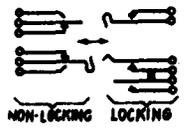
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AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REF. NOTES
					CODE	HDL	CODE	
18	ALDB					<p>(e)2ASJ BLACK (d)2CA BLACK</p> 	(d,e)	
18	ALDH					2HA BLACK		(dr)
18	ALHA					<p>(d)2A RED (d)2LNRED</p> 	(d)	

Numbers below schematics refer to requirement exceptions, see page 97
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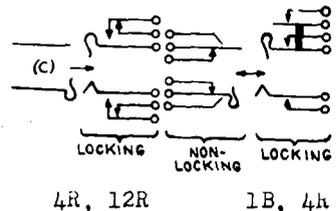
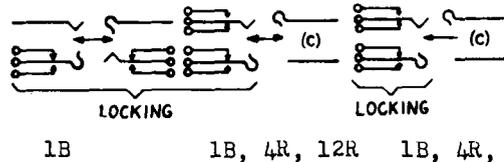
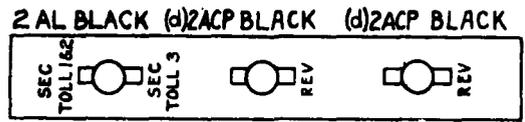
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					CODE	HDL	CODE	HDL	CODE	HDL		
18	A1JJ											
18	ALME											(a)

Numbers below schematics refer to requirement exceptions, see page 97
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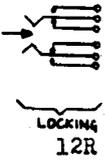
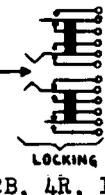
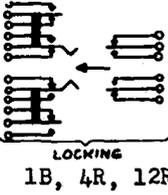
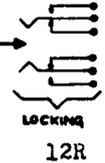
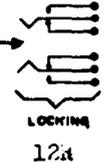
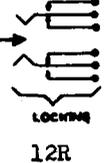
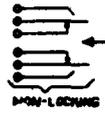
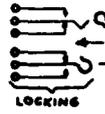
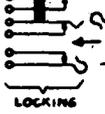
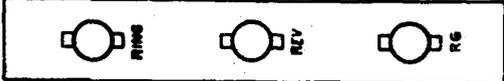
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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
18	A1PF					2ACK BLACK	2RB BLACK	(a)
18	A1PJ		1B, 4R, 12R	1B, 4R, 12R				(d)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

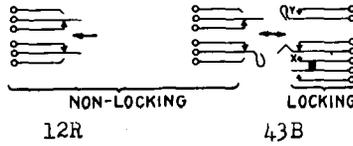
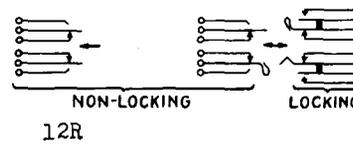
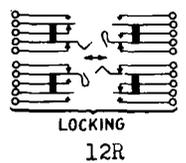
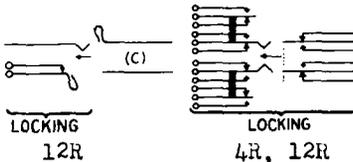
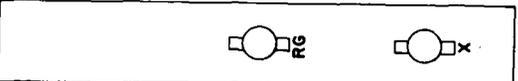
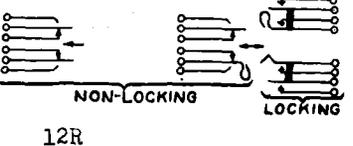
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
18	ALSA		 LOCKING 12R	 LOCKING 2B, 4R, 12R		2GP RED	2GE BLACK	
18	ALSR		 LOCKING 1B, 4R, 12R			2HA RED		(dr)
18	A1TK	 LOCKING 12R	 LOCKING 12R	 LOCKING 12R	2GP BLACK	2GP BLACK	2GP BLACK	
18	A1TR	 NON-LOCKING 4R, 12R	 LOCKING 1B, 4R, 12R (c)	 LOCKING 12R (c)	2 F RED 2 ABK BLACK 2 AGJ BLACK 			(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

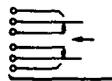
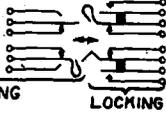
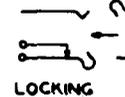
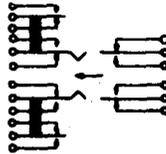
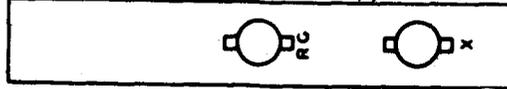
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Jan 1954

A1 Keys (Contd.)

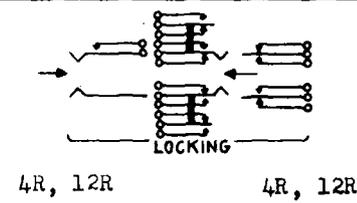
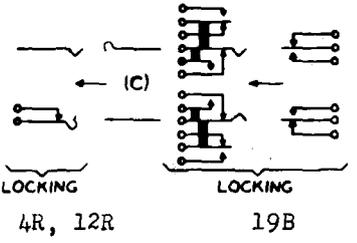
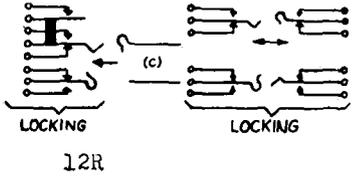
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
19	A1BC					2F RED	2L BLACK	(a,b)
20	A1BD					2F RED	2BB BLACK	(a,b)
20	A1BK				2BL BLACK			
20	A1CB					(e)2ASH BLACK (d)2H BLACK		(d,e,dr)
20	A1EL					2F RED	2TD BLACK	(a,b)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
20	A1ES				2F BLACK	2BB BLACK		(a)
20	A1JN				(e) 2ASH BLACK	(d) 2H BLACK		(d,e,dr)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

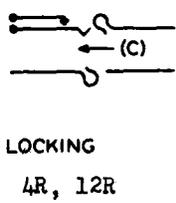
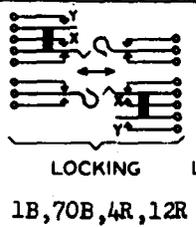
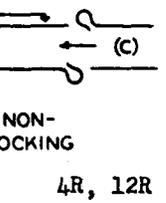
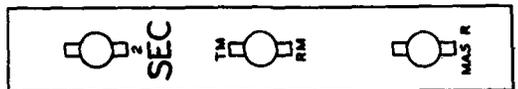
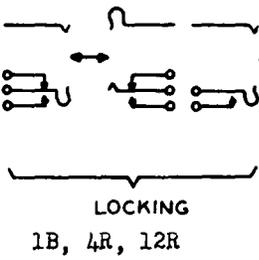
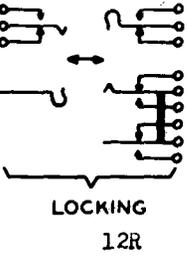
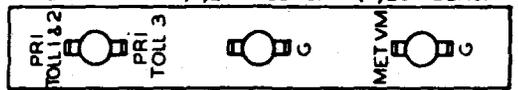
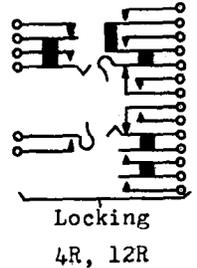
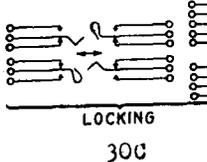
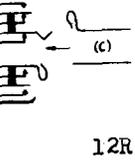
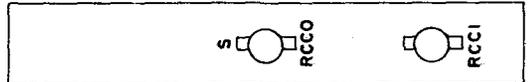
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CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REF. NOTES
					CODE	HDL	CODE	
20	A1LB		 <p>4R, 12R 4R, 12R</p>			2HN RED	2HA RED	(dr)
20	A1MN		 <p>4R, 12R 19B</p>			(e) 2ASH BLACK	2UG BLACK	(e, dr)
20	A1MW		 <p>12R</p>			2ABE WHITE	2GR BLACK	

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A1 Keys (Contd.)

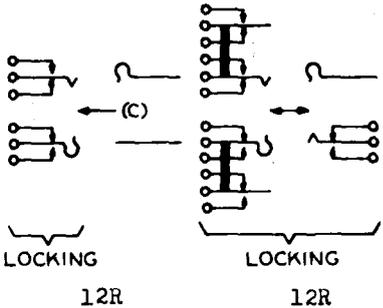
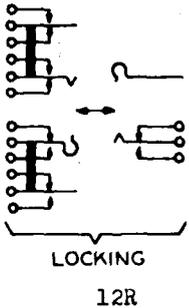
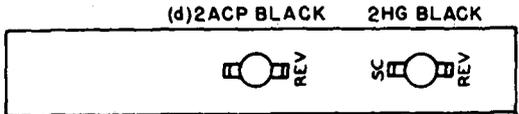
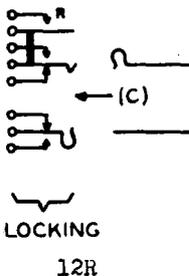
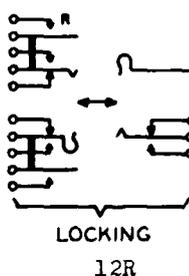
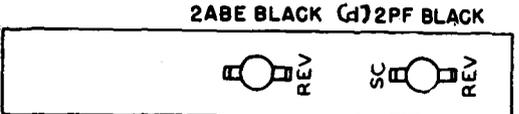
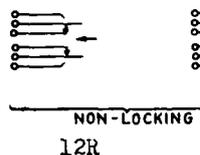
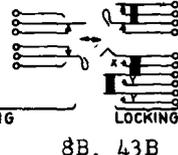
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
20	A1YC	 <p>LOCKING 4R, 12R</p>	 <p>LOCKING 1B, 70B, 4R, 12R</p>	 <p>NON-LOCKING 4R, 12R</p>	<p>2ABU BLACK 2AP BLACK 2AST RED</p> 			
20	A1ABD	 <p>LOCKING 1B, 4R, 12R</p>	 <p>LOCKING 4R, 12R</p>	 <p>LOCKING 12R</p>	<p>2AL BLACK (d)2ACL BLACK (d)2CN BLACK</p> 			(d)
20	A1PY		 <p>Locking 4R, 12R</p>			2ABB BLACK		
21	A1CY		 <p>LOCKING 30C</p>	 <p>12R</p>		<p>(d)2C BLACK (d)2ASK BLACK</p> 		(d)

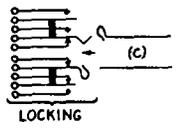
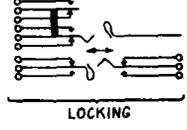
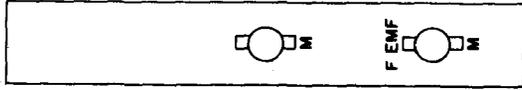
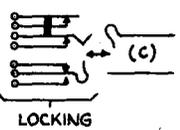
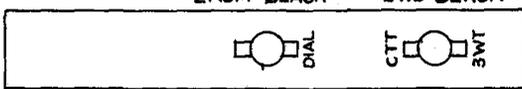
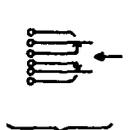
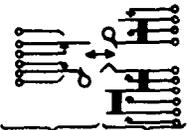
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
21	A1ABA		 <p>LOCKING 12R</p>	 <p>LOCKING 12R</p>		 <p>(d)2ACP BLACK 2HG BLACK</p>	(d)	
21	A1ABG		 <p>LOCKING 12R</p>	 <p>LOCKING 12R</p>		 <p>2ABE BLACK (d)2PF BLACK</p>	(d)	
22	A1BB		 <p>NON-LOCKING 12R</p>	 <p>LOCKING 8B, 43B</p>		<p>2F RED 2FY BLACK</p>	(a,b)	

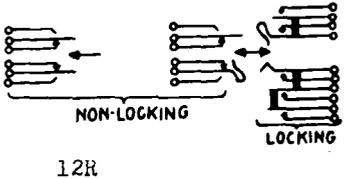
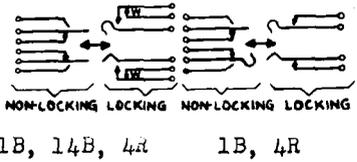
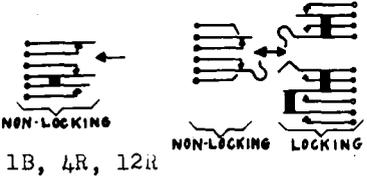
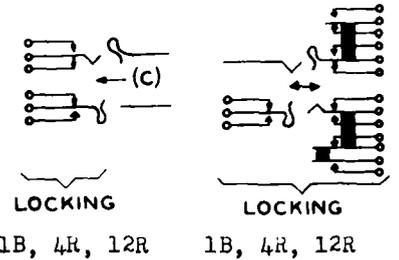
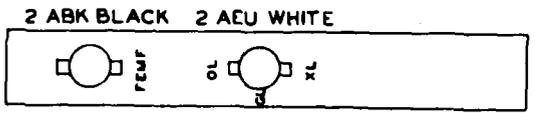
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 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT		MIDDLE UNIT		FRONT UNIT		REF. NOTES
					CODE	HDL	CODE	HDL	CODE	HDL	
22	A1CJ		 LOCKING 4R, 12R	 LOCKING					(d)2ARR BLACK (d)2CN BLACK 	(d)	
22	A1ABL		 LOCKING 12R	 LOCKING 12R					2ASM BLACK 2HG BLACK 		
22	A1KC		 NON-LOCKING 12R	 NON-LOCKING LOCKING					2F BLACK 2HT BLACK	(a)	

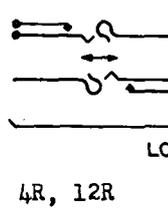
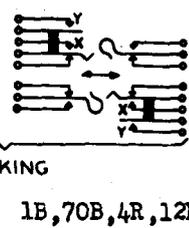
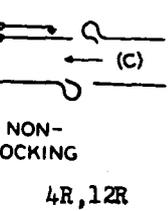
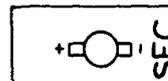
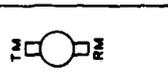
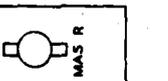
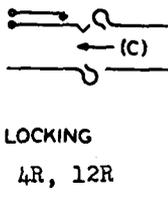
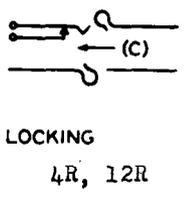
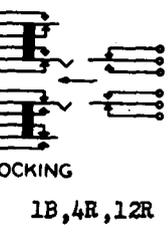
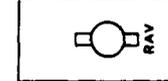
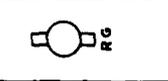
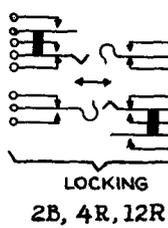
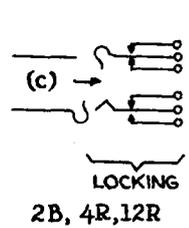
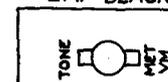
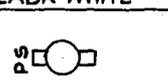
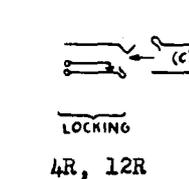
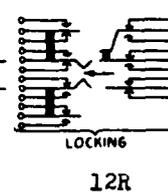
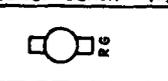
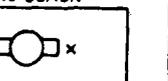
Numbers below schematics refer to requirement exceptions, see page 97
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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
22	A1LD	 <p>NON-LOCKING LOCKING 12R</p>			2F BLACK	2HT BLACK		(a)
22	A1RF		 <p>NON-LOCKING LOCKING NON-LOCKING LOCKING 1B, 14B, 4R 1B, 4R</p>			2ABP RED	2U BLACK	(a,b)
22	A1RM		 <p>NON-LOCKING LOCKING 1B, 4R, 12R</p>			2FT RED	2HT BLACK	(a)
22	A1WG	 <p>(C) LOCKING LOCKING 1B, 4R, 12R 1B, 4R, 12R</p>			 <p>2 ABK BLACK 2 AEU WHITE</p>			

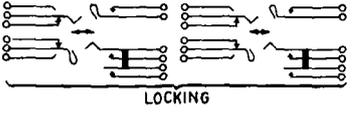
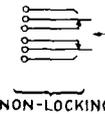
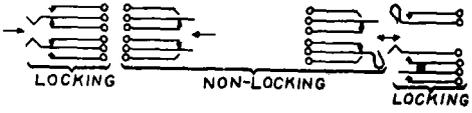
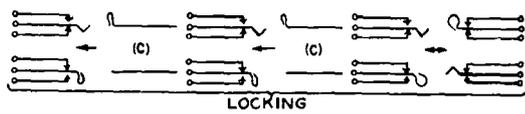
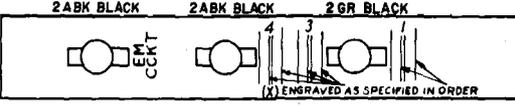
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
22	AIYD				2WT BLACK 	2AP BLACK 	2AST RED 	
22	AIYE				2ABU BLACK 	2AGT BLACK 	2HA BLACK 	(dr)
22	AIWM				2AP BLACK 	2ABK WHITE 		
23	AIHY					(e) 2ASH BLACK 	(d) 2NG BLACK 	(d, e, dr)

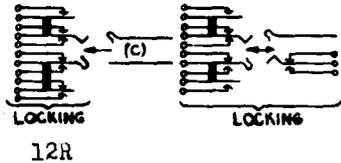
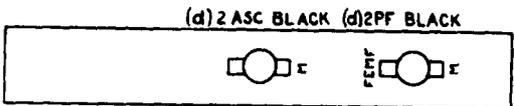
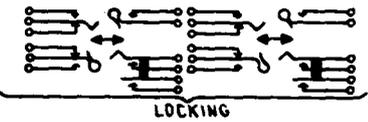
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

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AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
24	A1BM					2BM BLACK	2BM BLACK	(a)
24	A1DK				2HA BLACK		2F RED	(a,dr)
24	A1EN				2GP BLACK	2F RED	2N BLACK	(a)
24	A1FU							

Numbers below schematics refer to requirement exceptions, see page 97
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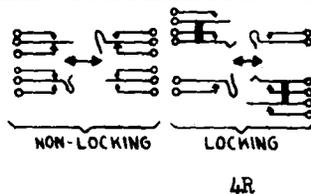
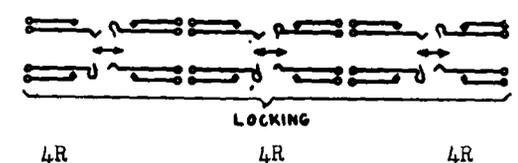
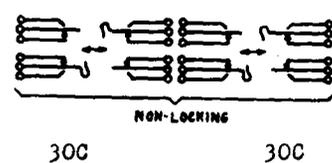
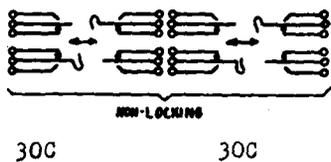
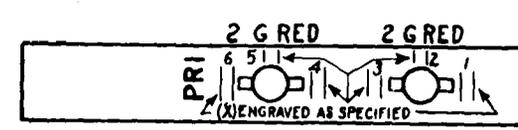
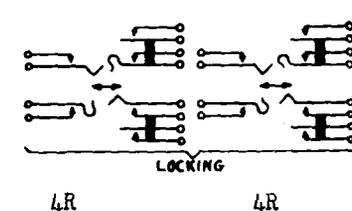
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					CODE	HDL	CODE	HDL	CODE	HDL	
24	A1JP										(d)
24	A1KG								2RK BLACK	2RK BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

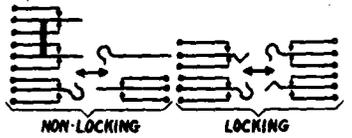
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Jan 1954

AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
24	ALLJ		 <p>NON-LOCKING LOCKING</p> <p>4R</p>			2JP RED	2GN BLACK	
24	ALMB		 <p>LOCKING</p> <p>4R 4R 4R</p>		2BF BLACK	2BF BLACK	2BF BLACK	
24	ALMG		 <p>NON-LOCKING</p> <p>30C 30C</p>	 <p>2 G RED 2 G WHITE</p> <p>(X) ENGRAVED AS SPECIFIED</p>			(a)	
24	ALMH		 <p>NON-LOCKING</p> <p>30C 30C</p>	 <p>2 G RED 2 G RED</p> <p>(X) ENGRAVED AS SPECIFIED</p>			(a)	
24	ALRC		 <p>LOCKING</p> <p>4R 4R</p>			2ABD BLACK	2ABD BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

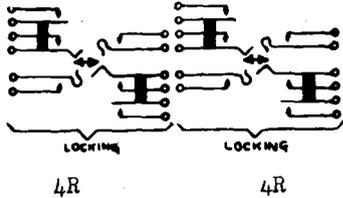
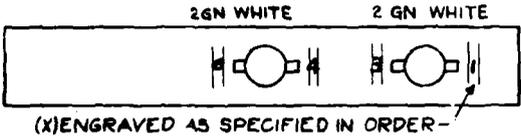
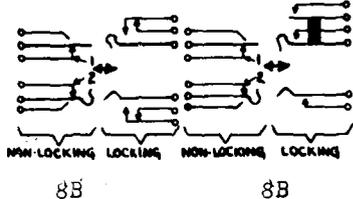
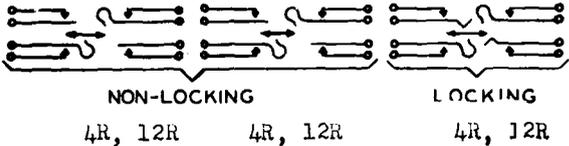
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
24	A1RJ	 <p>NON-LOCKING LOCKING</p> <p>2B, 4R, 12R 2B, 4R</p>			2ABC RED	2GR BLACK		
24	A1RR		 <p>LOCKING NON-LOCKING LOCKING NON-LOCKING</p> <p>1C 1C</p>				2ADF BLACK 2ADF BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

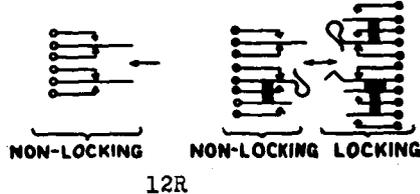
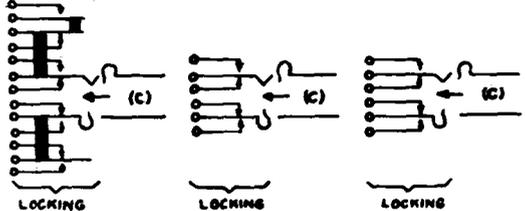
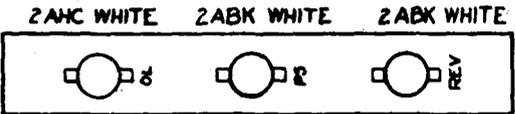
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Oct 1957

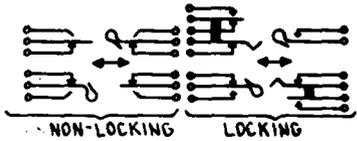
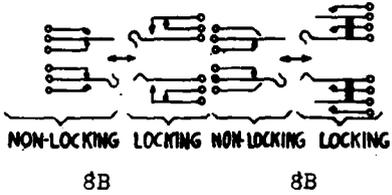
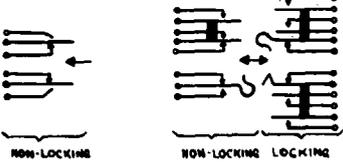
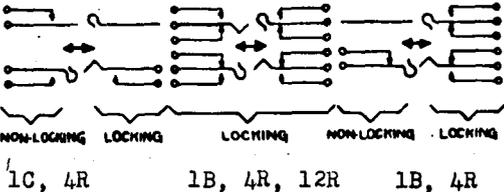
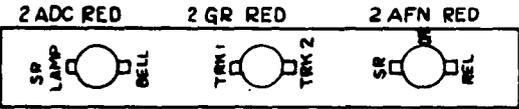
AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
24	AI TE		 <p>LOCKING LOCKING</p> <p>4R 4R</p>	 <p>2GN WHITE 2 GN WHITE</p> <p>(X) ENGRAVED AS SPECIFIED IN ORDER-</p>				(h)
24	AI TL		 <p>NON-LOCKING LOCKING NON-LOCKING LOCKING</p> <p>8B 8B</p>		2AFY RED	2AFW BLACK		a, b, t)
24	AI YW		 <p>NON-LOCKING LOCKING</p> <p>4R, 12R 4R, 12R 4R, 12R</p>	2UU BLACK	2UU BLACK	2BF BLACK		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
25	A1JT		 <p>NON-LOCKING NON-LOCKING LOCKING</p> <p>12R</p>			2EE BLACK	2PG BLACK	(y)
25	A1TW	 <p>LOCKING LOCKING LOCKING</p> <p>1B, 4R, 12R 1B, 4R, 12R 1B, 4R, 12R</p>				 <p>2AHC WHITE 2ABK WHITE 2ABK WHITE</p> <p>A R RE</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

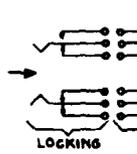
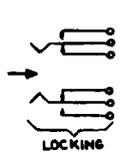
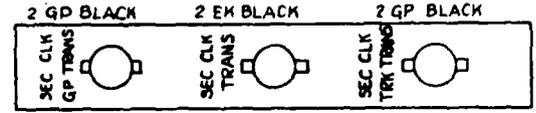
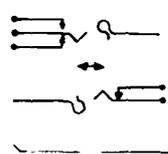
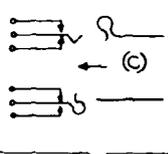
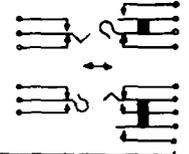
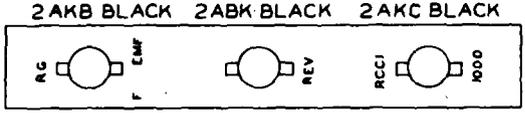
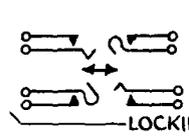
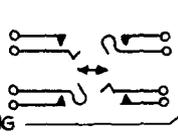
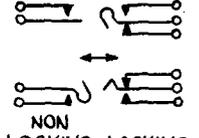
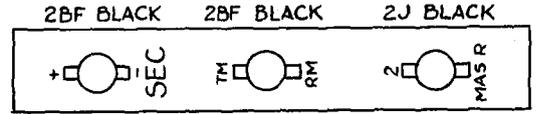
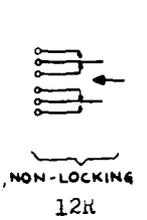
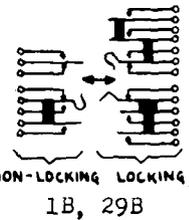
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
26	A1KT					2G BLACK	2DL BLACK	(a)
26	A1NR					2YS RED	2TD BLACK	(a)
26	A1RU					2AK BLACK	2ADH BLACK	(a)
26	A1TD							

Numbers below schematics refer to requirement exceptions, see page 97
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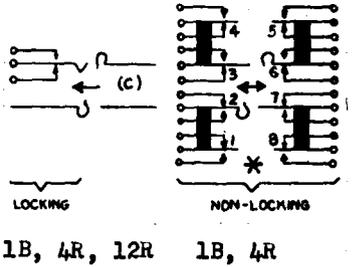
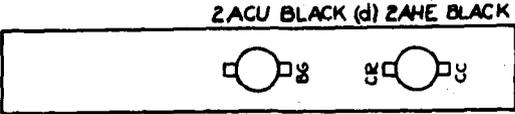
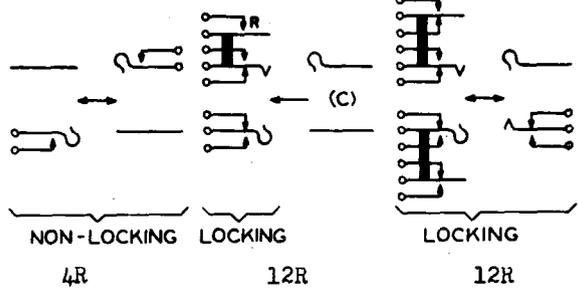
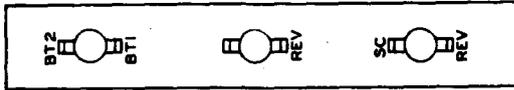
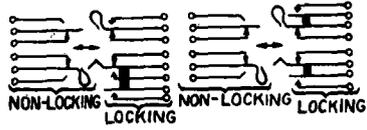
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AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
26	AI TJ	 LOCKING 1B, 4R, 12R	 LOCKING 1B, 4R, 12R	 LOCKING 1B, 4R, 12R				(dr)
26	AI WS	 LOCKING 1B, 4R, 12R	 LOCKING 1B, 4R, 12R	 LOCKING 1B, 4R, 12R				
26	AI ABH	 LOCKING 4R, 12R	 LOCKING 4R, 12R	 NON-LOCKING LOCKING 2B, 4R, 12R				
27	AI SC		 NON-LOCKING 12R	 NON-LOCKING LOCKING 1B, 29B		2EE RED	2TK BLACK	

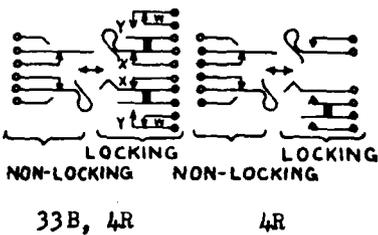
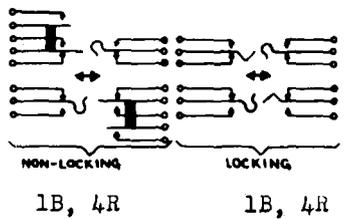
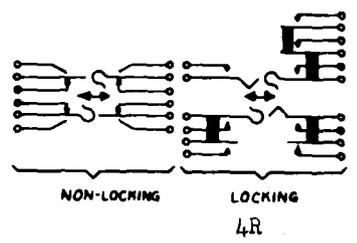
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 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
27	A1US		 <p>LOCKING NON-LOCKING</p> <p>1B, 4R, 12R 1B, 4R</p>			 <p>2ACU BLACK (d) 2AHE BLACK</p>		(d, z)
27	A1AAU		 <p>NON-LOCKING LOCKING LOCKING</p> <p>4R 12R 12R</p>			 <p>2SP BLACK 2ABE BLACK 2HG BLACK</p>		(m)
28	A1ET		 <p>NON-LOCKING LOCKING NON-LOCKING LOCKING</p>			<p>2ET BLACK 2BB BLACK</p>		(a)

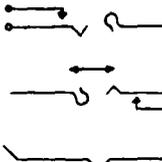
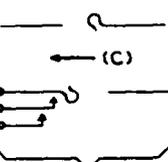
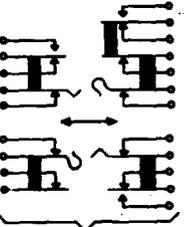
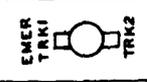
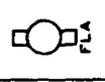
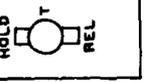
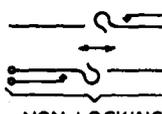
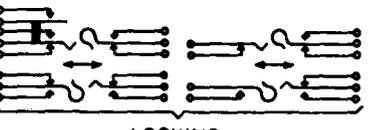
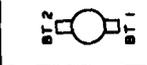
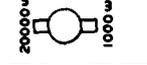
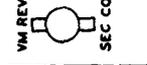
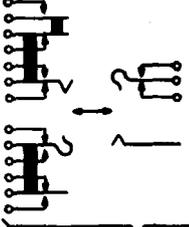
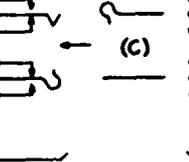
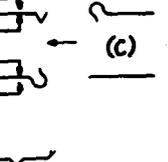
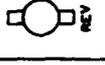
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 For information referred to in () see Ref. Notes, page 103

Dec 1955

A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
28	ALGU		 <p>33B, 4R 4R</p>			2 ADM RED	2N BLACK	(a)
28	ALTN		 <p>1B, 4R 1B, 4R</p>		2AW RED	2GR BLACK		
28	ALUY		 <p>NON-LOCKING LOCKING 4R</p>			2G RED	2AHW BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
28	ALAAD	 <p>LOCKING 4R, 12R</p>	 <p>NON-LOCKING 4R, 12R</p>	 <p>LOCKING 1B, 4R, 12R</p>	 <p>2WT WHITE</p>	 <p>2ASU BLACK</p>	 <p>2ASA BLACK</p>	
28	ALAAG	 <p>NON-LOCKING 4R</p>	 <p>LOCKING 12R</p>		 <p>2SP BLACK</p>	 <p>2AR BLACK</p>	 <p>2HC BLACK</p>	
28	ALAAM	 <p>LOCKING 1B, 4R, 12R</p>	 <p>LOCKING 1B, 4R, 12R</p>	 <p>LOCKING 1B, 4R, 12R</p>	 <p>2AEU WHITE</p>	 <p>(d)2ACP WHITE</p>	 <p>(d)2ACP WHITE</p>	(d)

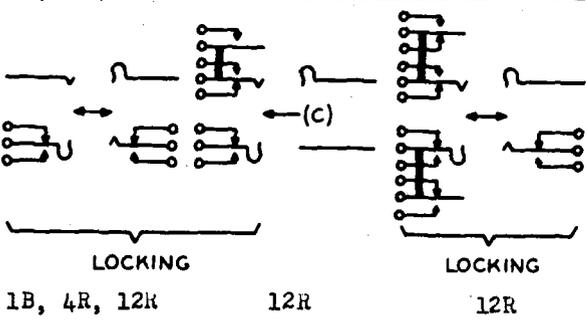
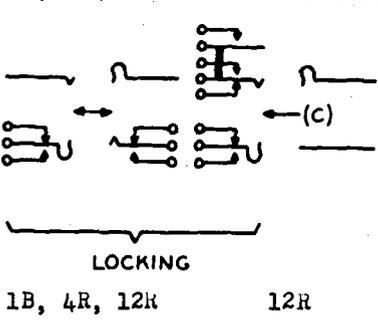
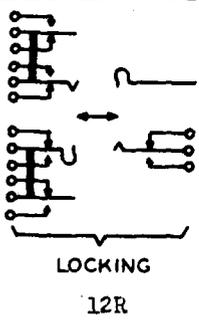
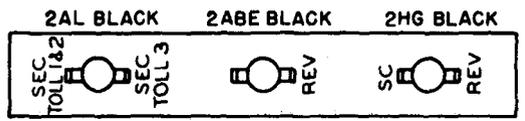
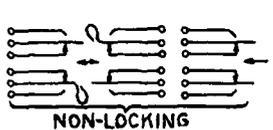
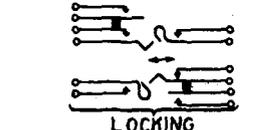
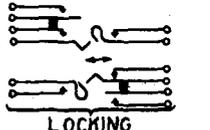
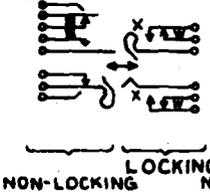
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Aug 1954

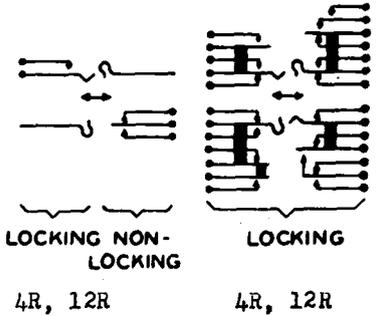
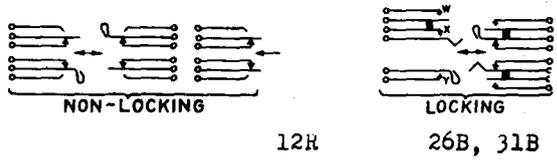
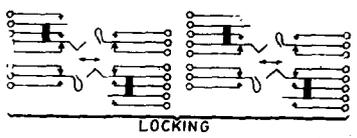
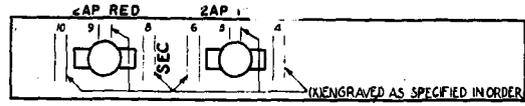
AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE	HDL	MIDDLE UNIT CODE	HDL	FRONT UNIT CODE	HDL	REF. NOTES		
29	ALLF	<p>NON-LOCKING 4R, 12R 4R, 12R LOCKING NON-LOCKING 4R</p>			2LB BLACK		2LG BLACK		(d) 2SL RED		(d)		
29	ALSN	<p>LOCKING LOCKING 2B, 4R, 12R 2B, 4R</p>			<p>25H BLACK 2 GC BLACK</p> <p>REPT TRANS REDUCE GAIN REPT CUT-OUT</p>								(dr)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
29	ALABE	 <p>LOCKING 1B, 4R, 12R</p> <p>LOCKING 12R</p>	 <p>LOCKING 12R</p>	 <p>LOCKING 12R</p>	 <p>2AL BLACK 2ABE BLACK 2HG BLACK</p> <p>SEC TOLL 1&2 SEC TOLL 3 SC REV</p>	(m)		
30	AL1EU	 <p>NON-LOCKING 12R</p>	 <p>LOCKING 12R</p>	 <p>LOCKING 1B, 4R</p>	2G RED	2F RED	2M BLACK	(a)
30	AL1HC	 <p>NON-LOCKING 37B</p>	 <p>LOCKING 37B</p>	 <p>LOCKING 37B</p>		2LM RED	2HT BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

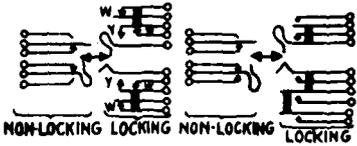
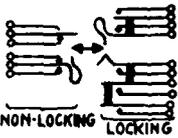
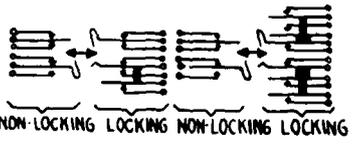
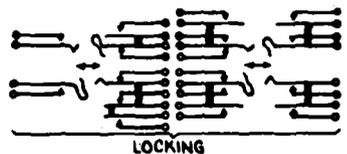
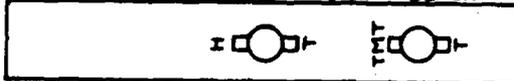
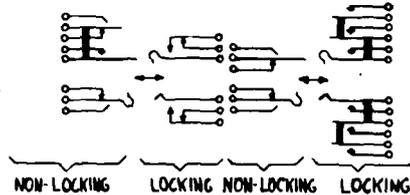
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
31	AIWJ	 <p>LOCKING NON-LOCKING 4R, 12R</p> <p>LOCKING 4R, 12R</p>				 <p>2 UB RED 2 AFC BLACK</p>		
32	AID	 <p>NON-LOCKING LOCKING</p> <p>12R 26B, 31B</p>			2G RED	2F RED	2BR BLACK	(a)
32	AICS	 <p>LOCKING</p>				 <p>4AP RED 2AP BLACK</p> <p>ENGRAVED AS SPECIFIED IN ORDER</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

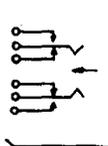
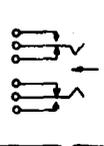
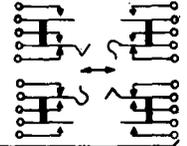
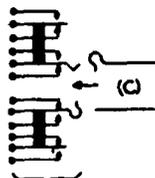
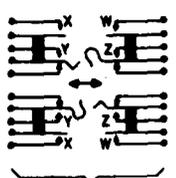
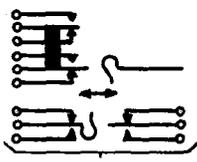
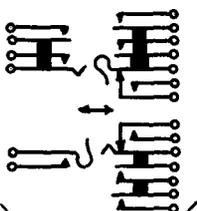
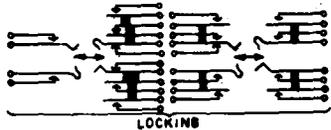
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AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
32	ALLE				2ADN BLACK	2HT BLACK		(a)
32	ALLL				2ET BLACK	2FF BLACK		
32	ALLT					(d) 2 HR BLACK (d) 2 TH BLACK		(d)
32	AINS					2LM RED	2YW BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
32	A1PL	 12R	 12R		2 GP WHITE	2 GP WHITE	2 BJ WHITE	
32	A1WL	 LOCKING 1B, 4R, 12R	 LOCKING 2B, 21B, 22B, 4R, 12R		2 ACN RED	2 BJ RED		
32	A1PW	 Non-Locking 4R, 12R, 1B		 Locking 4R, 12R	2ABC RED		2ABB BLACK	
33	A1HW		 LOCKING			(d)2NC BLACK	(d)2CE BLACK	(d)

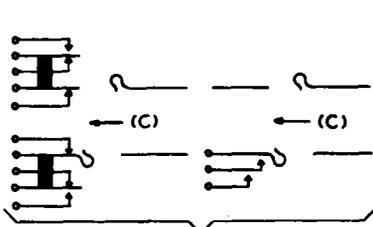
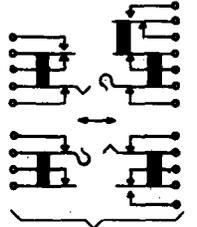
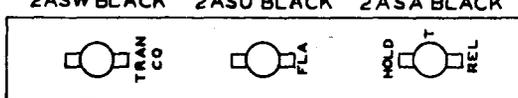
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For information referred to in () see Ref. Notes, page 103

Oct 1957

Al Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REF. NOTES
					CODE HDL	CODE HDL	CODE HDL	
33	AIYR	<p>4R, 12R</p>	<p>LOCKING 1B, 4R, 12R</p>	<p>1B, 4R, 12R</p>		<p>2AHU BLACK 2AMW BLACK 2AHS BLACK</p>		
33	ALAAR	<p>LOCKING 1B, 4R, 12R</p>	<p>4R, 12R</p>	<p>LOCKING 1B, 4R, 12R</p>		<p>(e) 2ALD BLACK 2AGT BLACK 2HA BLACK</p>	(e, dr)	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

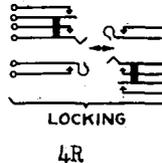
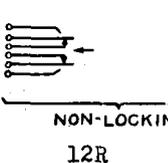
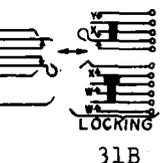
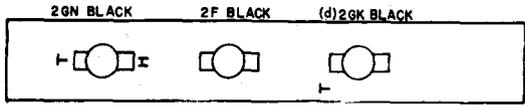
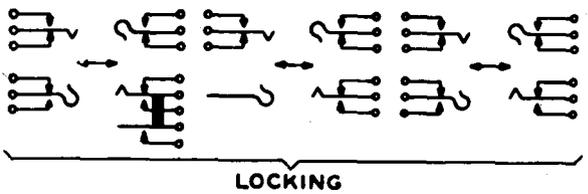
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
34	ALAAC		 <p>NON-LOCKING</p> <p>1B, 4R, 12R 4R, 12R</p>	 <p>LOCKING</p> <p>1B, 4R, 12R</p>		 <p>2ASW BLACK 2ASU BLACK 2ASA BLACK</p> <p>TRAN CO L REL</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

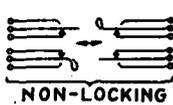
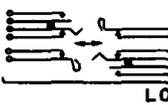
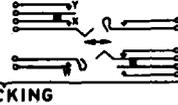
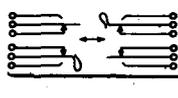
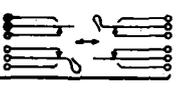
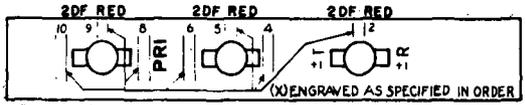
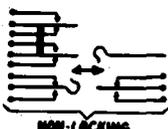
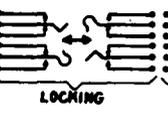
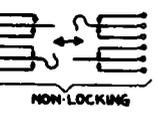
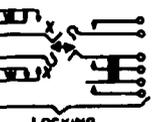
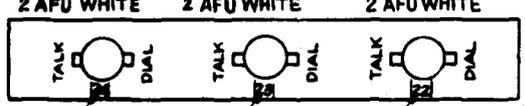
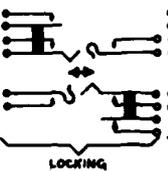
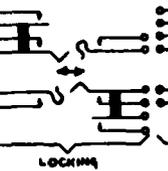
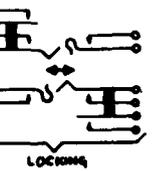
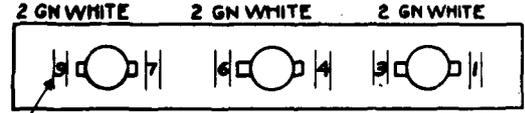
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A1 Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
		LOCKING			LOCKING			
35	A1FN							(a, b, d)
35	ALAAK							(d)

Numbers below schematics refer to requirement exceptions, see page 97
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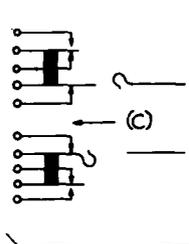
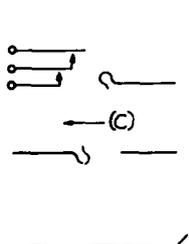
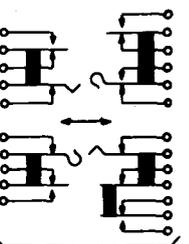
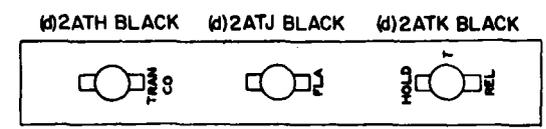
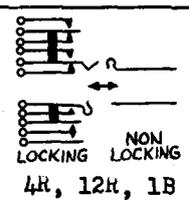
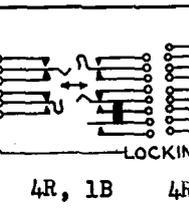
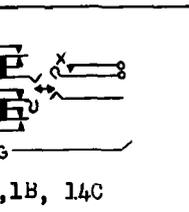
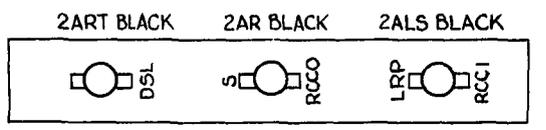
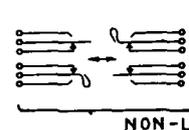
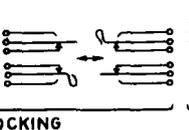
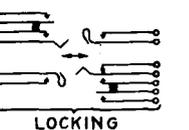
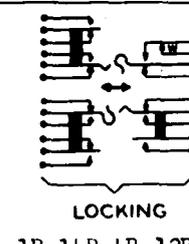
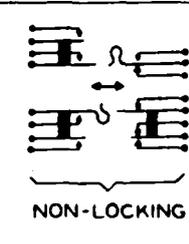
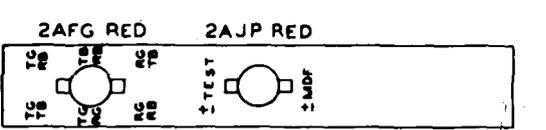
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
36	A1A	 NON-LOCKING	 LOCKING	 LOCKING	2G RED	2AA BLACK	2M BLACK	(a)
				1B, 28B, 4R, 12R				
36	A1CA	 NON-LOCKING	 NON-LOCKING	 NON-LOCKING		 2DF RED 2DF RED 2DF RED PRI (X) ENGRAVED AS SPECIFIED IN ORDER		(a)
36	A1RH	 NON-LOCKING	 LOCKING	 NON-LOCKING	2ABC RED	2GR BLACK	2JP RED	
		2B, 4R, 12R	12R					
36	A1TF	 LOCKING	 LOCKING	 LOCKING		 2AFU WHITE 2AFU WHITE 2AFU WHITE TALK DIAL TALK DIAL TALK DIAL (X) ENGRAVED AS SPECIFIED IN ORDER		(k)
		8C, 14C, 4R	8C, 14C, 4R	8C, 14C, 4R				
36	A1TG	 LOCKING	 LOCKING	 LOCKING		 2GN WHITE 2GN WHITE 2GN WHITE (X) ENGRAVED AS SPECIFIED IN ORDER		(h)
		4R	4R	4R				

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

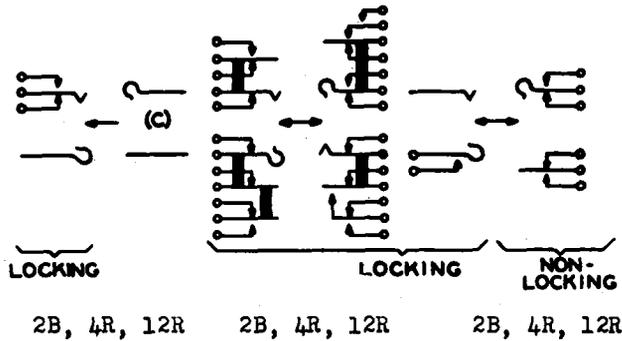
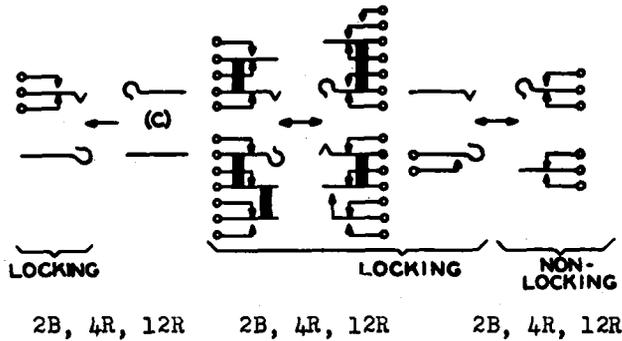
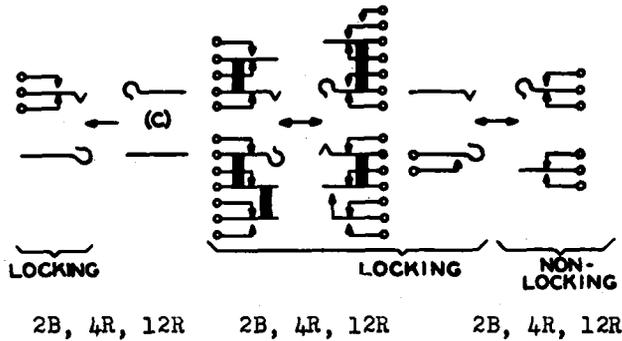
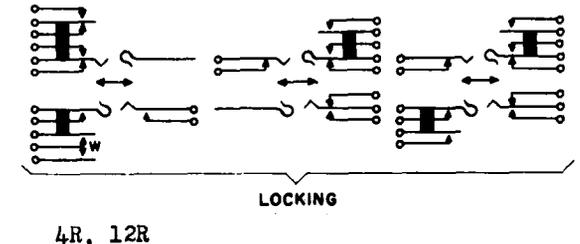
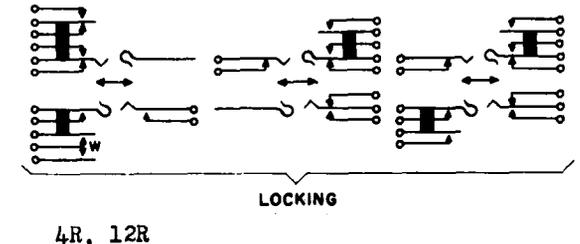
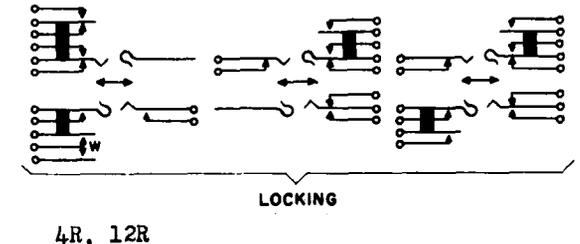
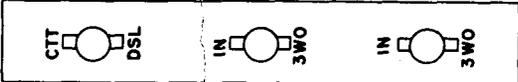
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A1 Keys (Contd.)

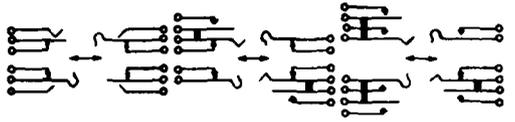
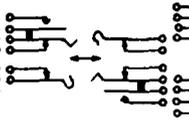
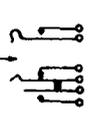
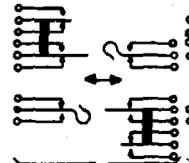
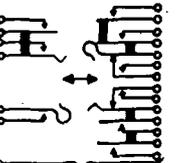
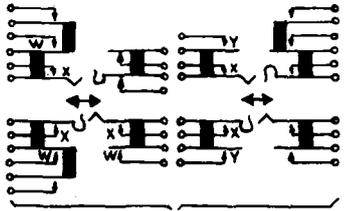
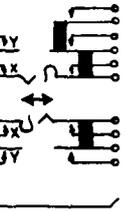
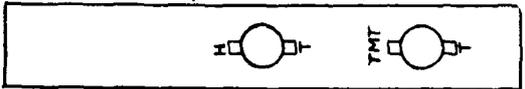
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REF. NOTES
					CODE HDL	CODE HDL	CODE HDL	
36	A1AAF	 <p>NON-LOCKING 1B, 4R, 12R</p>	 <p>NON-LOCKING 4R, 12R</p>	 <p>LOCKING 1B, 4R, 12R</p>				(d)
36	A1ABK	 <p>LOCKING NON LOCKING 4R, 12R, 1B</p>	 <p>LOCKING 4R, 1B</p>	 <p>LOCKING 4R, 1B, 14C</p>				
37	A1E	 <p>NON-LOCKING</p>	 <p>NON-LOCKING</p>	 <p>LOCKING</p>	2G RED	2G RED	2P BLACK	(a)
37	A1WK	 <p>LOCKING 1B, 14B, 4R, 12R</p>	 <p>NON-LOCKING</p>					

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
37	A1AAJ	 <p>LOCKING</p> <p>2B, 4R, 12R</p> <p>LOCKING</p> <p>2B, 4R, 12R</p> <p>NON-LOCKING</p> <p>2B, 4R, 12R</p>	 <p>LOCKING</p> <p>2B, 4R, 12R</p> <p>LOCKING</p> <p>2B, 4R, 12R</p> <p>NON-LOCKING</p> <p>2B, 4R, 12R</p>	 <p>LOCKING</p> <p>2B, 4R, 12R</p> <p>LOCKING</p> <p>2B, 4R, 12R</p> <p>NON-LOCKING</p> <p>2B, 4R, 12R</p>	<p>2ACU BLACK 2AUG BLACK 2ARK WHITE</p> 			
37	A1ABB	 <p>LOCKING</p> <p>4R, 12R</p> <p>LOCKING</p> <p>4R, 12R</p> <p>LOCKING</p> <p>4R, 12R</p>	 <p>LOCKING</p> <p>4R, 12R</p> <p>LOCKING</p> <p>4R, 12R</p> <p>LOCKING</p> <p>4R, 12R</p>	 <p>LOCKING</p> <p>4R, 12R</p> <p>LOCKING</p> <p>4R, 12R</p> <p>LOCKING</p> <p>4R, 12R</p>	<p>2AUN BLACK 2AMM BLACK 2ARU BLACK</p> 			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

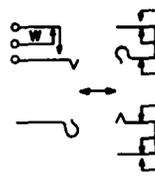
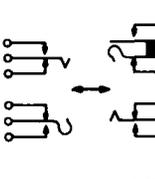
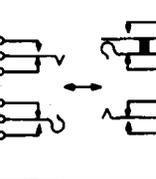
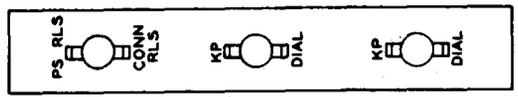
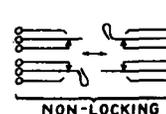
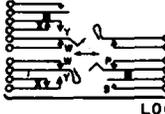
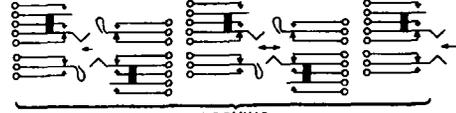
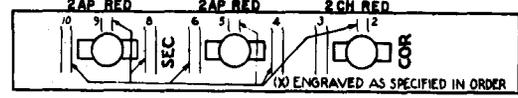
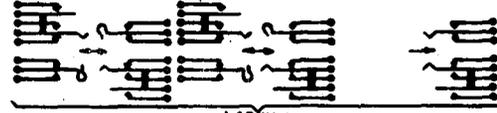
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CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
38	A1NL	 NON-LOCKING 12R	 LOCKING 1B, 4R, 12R	 1B, 4R, 12R	2G RED	2AA BLACK	2YJ BLACK	(e)
38	A1SH	 NON-LOCKING 2B, 4R, 12R	 LOCKING 4R, 12R		2ABY RED	2ABB BLACK		
38	A1UP		 82B, 4R	 55B, 4R		(f)2AHH BLACK (f)2AHG BLACK		(f)

Numbers below schematics refer to requirement exceptions, see page 97
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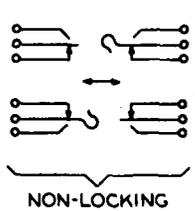
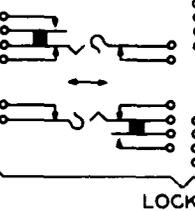
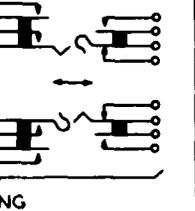
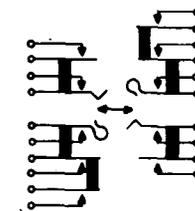
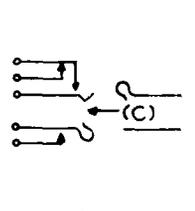
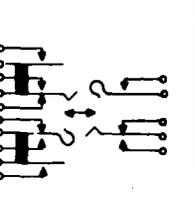
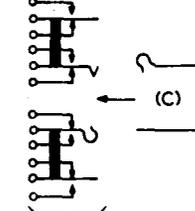
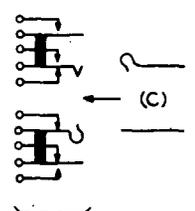
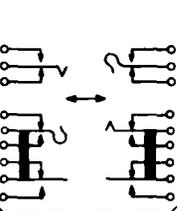
AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
39	ALAAN	 <p>LOCKING</p> <p>1B, 9B, 4R, 12R</p>	 <p>LOCKING</p> <p>1B, 12R</p>	 <p>LOCKING</p> <p>1B, 12R</p>	<p>2AUL BLACK 2JN BLACK 2JN BLACK</p> 	(ab)		
40	A1BU	 <p>NON-LOCKING LOCKING</p> <p>33B, 53B, 8C, 9C, 14C, 4R</p>	 <p>LOCKING</p> <p>50B, 53B, 4R</p>		2G RED	2BT BLACK	2M BLACK	(a)
40	A1CR	 <p>LOCKING</p> <p>12R</p>			<p>2AP RED 2AP RED 2CH RED</p> 			
40	ALMJ	 <p>LOCKING</p> <p>12R</p>			<p>2 AP RED 2 AP WHITE 2 CH RED</p> 			

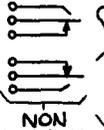
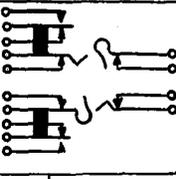
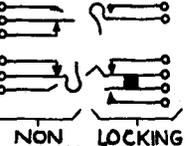
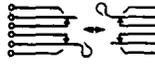
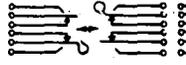
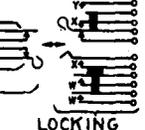
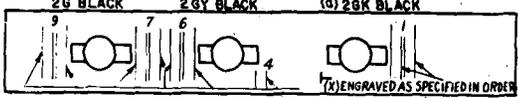
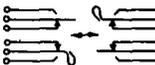
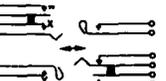
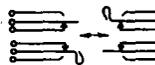
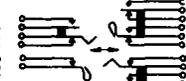
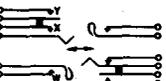
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

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AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
40	AIYU				2G RED	2AA BLACK	2AHP BLACK	(a)
		NON-LOCKING	LOCKING					
			1B, 4R, 12R					
40	ALAAH				2JM BLACK	2ASR BLACK	2AHS BLACK	
		LOCKING	LOCKING					
		4R, 12R	4R, 12R					
40	ALAAP				2ACN BLACK	(d)2ARR BLACK	2KM BLACK	(d)
		LOCKING	LOCKING	LOCKING				
		12R	1B, 4R, 12R					

Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
40	ALDY	 NON LOCKING 54B, 14C	 LOCKING	 NON LOCKING LOCKING	2CB RED	2DG BLACK	2B BLACK	(a)
41	ALFP	 NON-LOCKING	 LOCKING	 LOCKING 31B				(a, b, d)
42	ALB	 NON-LOCKING	 LOCKING	 NON-LOCKING LOCKING 1B, 43B, 4R	2G RED	2AF BLACK	2M BLACK	(a)
42	ALF	 NON-LOCKING	 LOCKING 1B, 28B, 4R	 NON-LOCKING LOCKING	2G RED	2AN BLACK	2M BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page.103

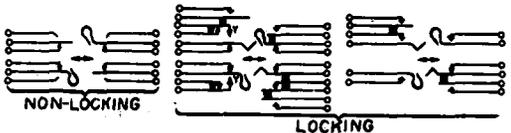
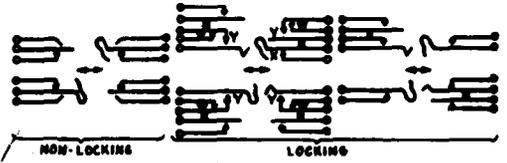
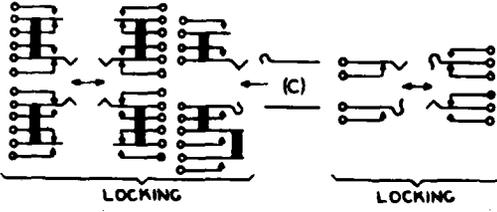
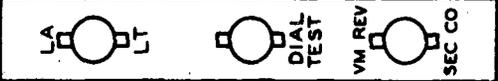
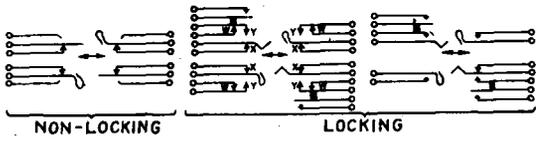
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AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
42	A1BG				2G RED	2BT BLACK	2BR BLACK	(a)
42	A1SK				2AEM RED	2ABB BLACK		
42	A1UT				2AHN RED	2AHM BLACK		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

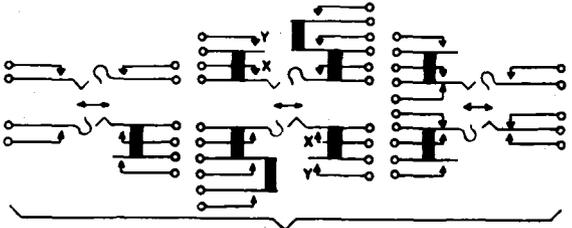
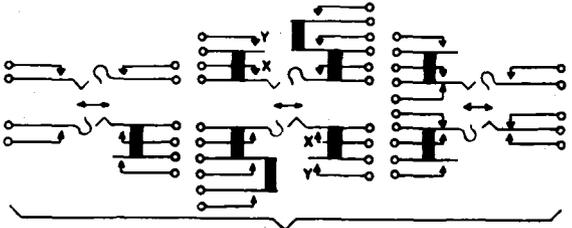
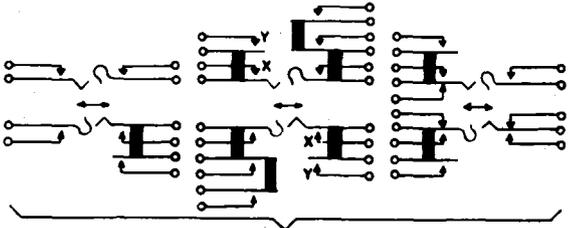
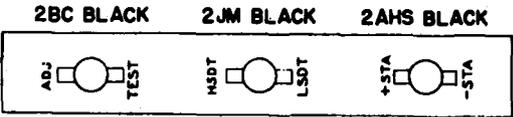
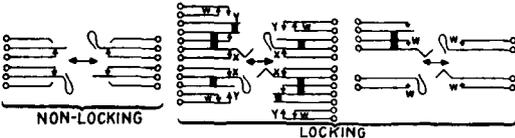
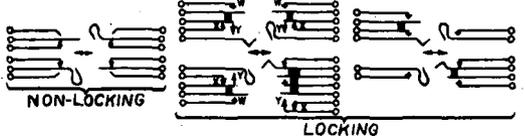
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
44	A1EW		NON-LOCKING LOCKING	30B, 12R 1B, 4R	2G RED	2FC BLACK	2M BLACK	(a)
44	A1LW		NON-LOCKING LOCKING	56B, 4C, 5C, 17C, 4R	2G RED	2DJ BLACK	2M BLACK	(a)
44	A1NB		LOCKING LOCKING	1B, 4R, 12R 4R, 12R	2DH BLACK 2ASN BLACK 2HC BLACK			
45	A1P		NON-LOCKING LOCKING	33B, 4R, 12R	2G RED	2R BLACK	2P BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
45	A1YT	 <p>4R, 12R 71B, 4R, 12R</p>	 <p>LOCKING</p>	 <p>LOCKING</p>				
46	A1EC	 <p>NON-LOCKING LOCKING</p> <p>33B, 8C, 11C 8C, 4R 17C, 4R</p>			2G RED	2E BLACK	2BC BLACK	(a)
46	A1EY	 <p>NON-LOCKING LOCKING</p> <p>15B, 39B, 65B, 1B, 4R 16C</p>			2G RED	2ADL BLACK	2M BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
46	A1JY				2AW RED	2LY BLACK	2SW BLACK	
47	A1N	 30B, 4R, 12R			2G RED	2R BLACK	2AT BLACK	(a)
47	A1MA	 12R 8B, 28B			2CH BLACK	2TS BLACK	2UC BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

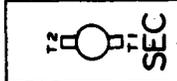
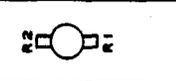
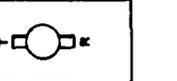
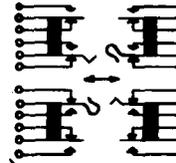
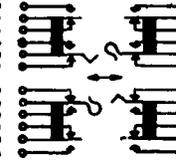
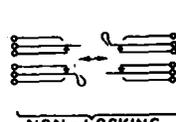
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Jan 1954

Al Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
47	A1AAS	<p>12R LOCKING 12R</p>	<p>2ADJ BLACK 2AP BLACK 2HC BLACK</p>					
48	A1BY	<p>LOCKING</p>	<p>2AP RED 2AP RED 2AP RED</p> <p>(X) ENGRAVED AS SPECIFIED IN ORDER</p>					
48	A1NC	<p>LOCKING LOCKING NON-LOCKING LOCKING</p> <p>1B, 4R, 12R 1B, 4R, 12R 1B, 4R</p>	<p>2WN BLACK (d)2ASC BLACK (d)2 PF BLACK</p>	(d)				

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

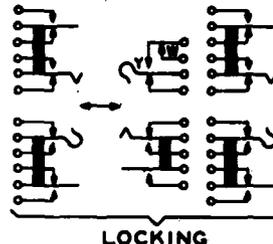
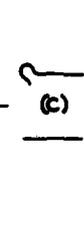
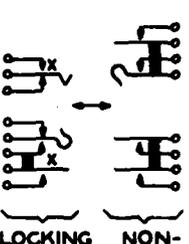
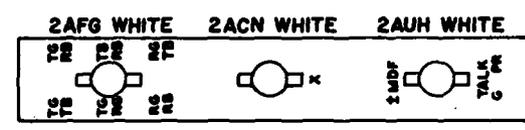
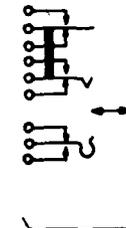
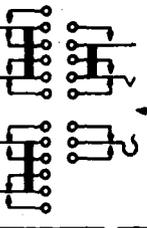
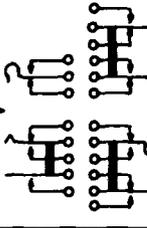
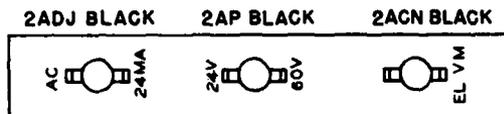
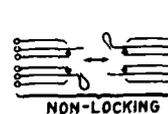
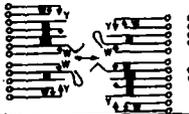
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
48	A1YG	 1B, 55B, 4R, 12R	 1B, 55B, 4R, 12R	 1B, 55B, 4R, 12R	 2AP RED	 2AP RED	 2AP RED	(c)
48	A1YS	 2B, 4C, 4R	 2B, 4C, 4R			(d) 2APG BLACK	(d) 2APG BLACK	(d)
49	A1C	 51B, 4R, 12R	 28B		2G RED	2BD BLACK	2P BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

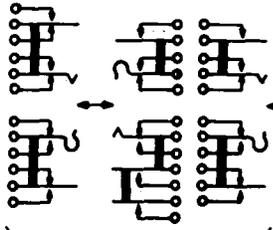
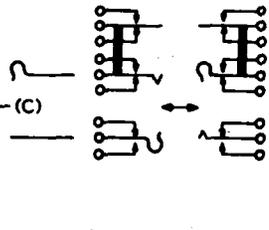
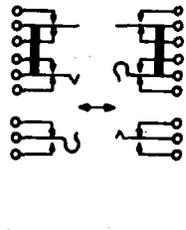
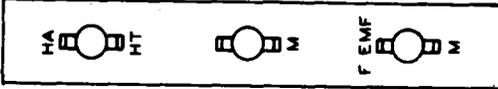
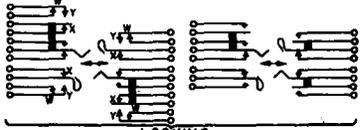
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AI Keys (Contd.)

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
		Diagram						
49	A1AAL	 <p>LOCKING</p> <p>1B, 85B, 4R, 12R</p>	 <p>(C)</p>	 <p>LOCKING NON-LOCKING</p> <p>43B, 12R</p>		 <p>2AFG WHITE 2ACN WHITE 2AUH WHITE</p>		
49	A1AAY	 <p>LOCKING</p> <p>12R</p>	 <p>LOCKING</p> <p>12R</p>	 <p>(C)</p> <p>LOCKING</p> <p>12R</p>		 <p>2ADJ BLACK 2AP BLACK 2ACN BLACK</p>		
50	A1BW	 <p>NON-LOCKING</p> <p>51B, 4R, 12R</p>	 <p>LOCKING</p> <p>23B, 50B, 8C, 4R</p>		2G RED	2BP BLACK	2BU BLACK	(a)

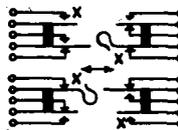
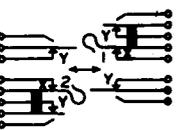
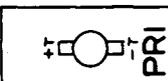
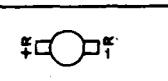
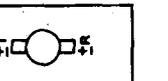
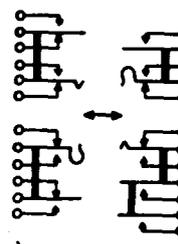
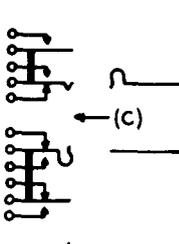
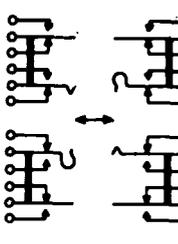
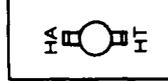
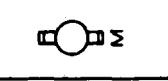
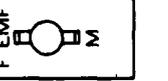
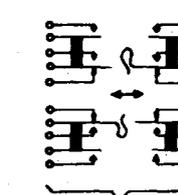
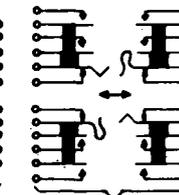
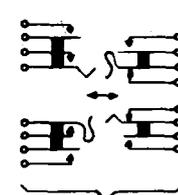
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
53	ALAAW	 <p>LOCKING</p> <p>1B, 4R 12R</p>	 <p>LOCKING</p> <p>1B, 4R, 12R</p>	 <p>LOCKING</p>	 <p>2WN BLACK (d)2ASC BLACK 2KM BLACK</p>	(d)		
54	ALS	 <p>NON-LOCKING</p> <p>30B</p>	 <p>LOCKING</p> <p>33B, 12R</p>	<p>2AW RED</p> <p>2AU BLACK</p> <p>2AY BLACK</p>				

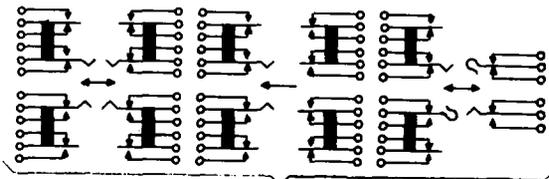
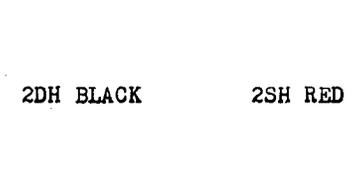
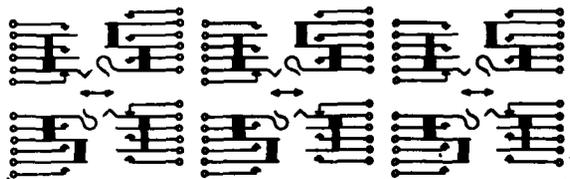
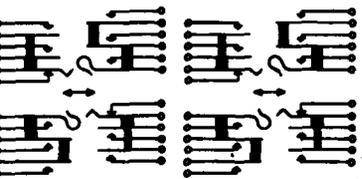
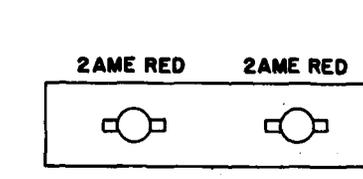
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 For information referred to in () see Ref. Notes, page 103

Oct 1957

Al Keys (Contd.)

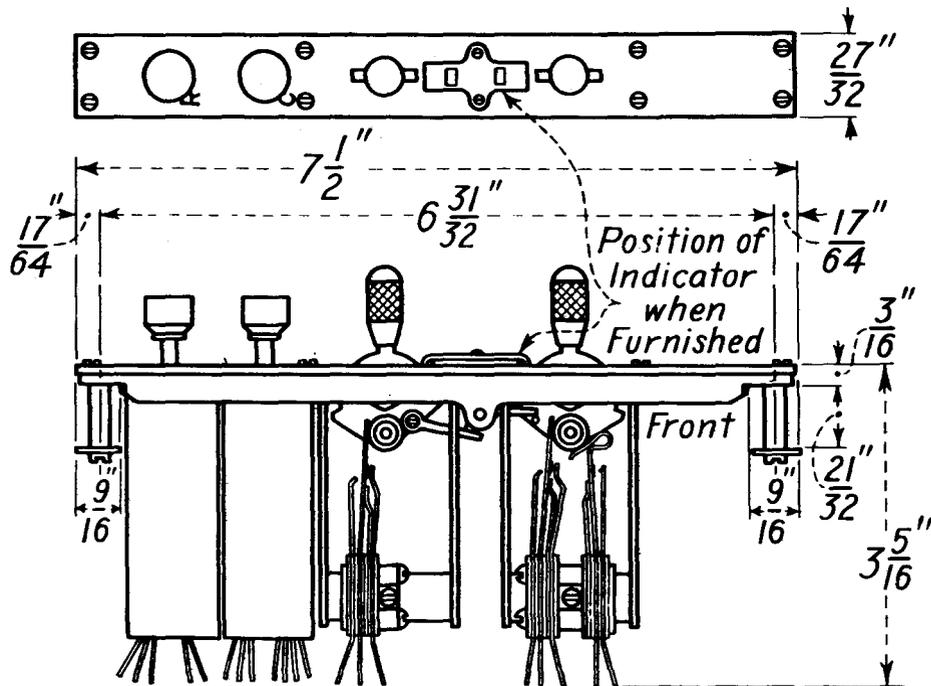
CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
56	ALYL	 <p>NON-LOCKING</p> <p>14C</p>	 <p>NON-LOCKING</p> <p>14C</p>	 <p>NON-LOCKING</p> <p>81B, 14C</p>	<p>2AMB RED</p> 	<p>2AMB RED</p> 	<p>2AMA RED</p> 	(a, t)
59	ALABF	 <p>LOCKING</p> <p>1B, 4R, 12R</p>	 <p>LOCKING</p> <p>1B, 4R, 12R</p>	 <p>LOCKING</p> <p>1B, 4R</p>	<p>2WN BLACK (d)</p> 	<p>2ASC BLACK (d)</p> 	<p>2APG BLACK (d)</p> 	(d)
60	ALUW	 <p>NON LOCKING</p>	 <p>LOCKING</p> <p>1B, 4R, 12R</p>	 <p>LOCKING</p> <p>1B, 4R, 12R</p>	<p>2HE RED</p>	<p>2ABR BLACK</p>	<p>2AHP BLACK</p>	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	REAR UNIT	MIDDLE UNIT	FRONT UNIT	REAR UNIT CODE HDL	MIDDLE UNIT CODE HDL	FRONT UNIT CODE HDL	REF. NOTES
66	A1TA	 <p data-bbox="507 414 652 438">1B, 4R, 12R</p>	 <p data-bbox="694 414 839 438">1B, 4R, 12R</p>	 <p data-bbox="1108 414 1253 438">1B, 4R, 12R</p>	2DH BLACK	2SH RED	2BD RED	(dr)
72	A1YM	 <p data-bbox="549 1226 631 1250">1B, 4R</p>	 <p data-bbox="756 1226 839 1250">1B, 4R</p>	 <p data-bbox="1191 1047 1295 1071">2AME RED</p> <p data-bbox="1357 1047 1460 1071">2AME RED</p> <p data-bbox="1522 1047 1626 1071">2AME RED</p> <p data-bbox="1605 1096 1647 1144">LOC TIMES</p>				

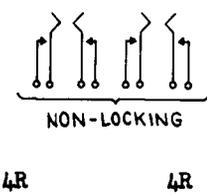
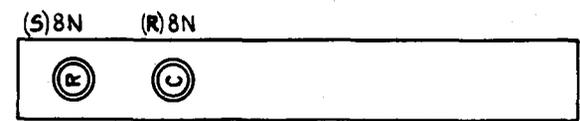
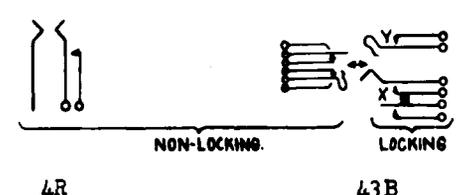
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

A2-TYPE KEYS



A2A Also General Design and Dimensions of
A2 Type

These keys are equipped with lever-type key units (two maximum), and nonlocking push button units (two maximum), as indicated under the individual code numbers. A No. 38F shield can be used with these keys. The following keys are equipped with indicators: A2B, A2L, A2R, A2W, A2CA, A2CB, A2CT, and A2CU. Maximum equipment is shown above.

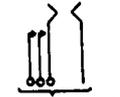
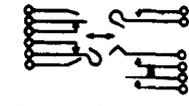
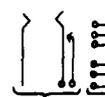
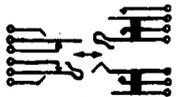
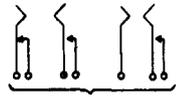
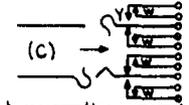
CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
8	A2BU									
14	A2BF					(PP) 8H BLACK 2N BLACK				(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

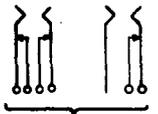
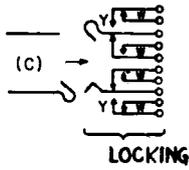
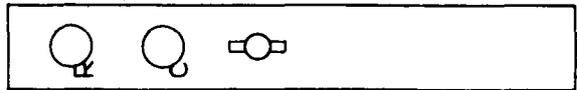
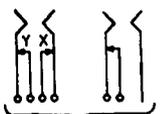
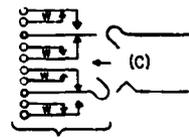
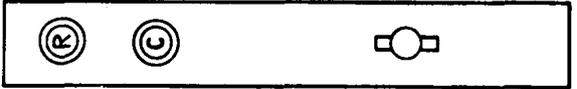
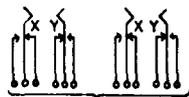
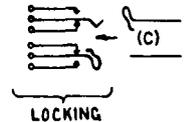
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A2 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
15	A2CD		 <p>NON-LOCKING 4R</p>		 <p>NON-LOCKING LOCKING</p>		(e) 8B RED		2N BLACK	(a)
16	A2N		 <p>NON-LOCKING 4R</p>		 <p>LOCKING 12R</p>		(PP) 8H BLACK		2EK BLACK	(dr)
16	A2AB		 <p>NON-LOCKING 4R</p>		 <p>LOCKING</p>		(PP) 8H RED		2TD BLACK	(a)
16	A2BR		 <p>NON-LOCKING 4R 4R</p>		 <p>(C) NON-LOCKING LOCKING 4R, 12R, 24B, 25C</p>		6U BLACK 6T RED		2ACM BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

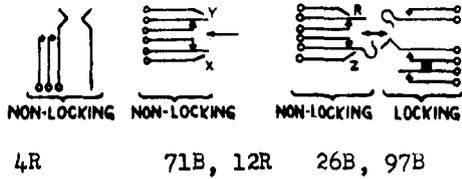
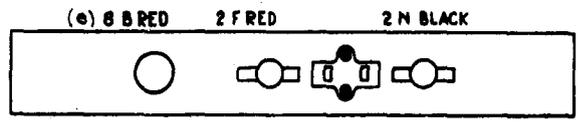
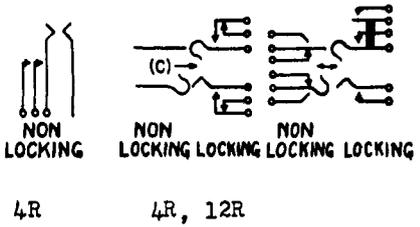
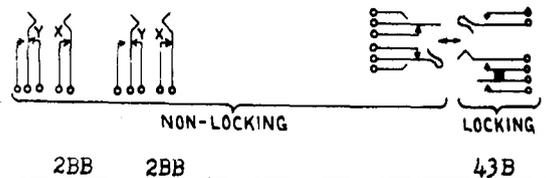
CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
16	A2CH	 NON-LOCKING 4R, 2BB 4R	 LOCKING 4R, 12R, 24B, 25C	8Y BLACK 8S RED 2ACM BLACK 						
16	A2CN	 NON-LOCKING 4R, 2BB 4R	 LOCKING 4R, 12R, 24B, 25C	(S)8Y (R)8AD 2ACM BLACK 						
18	A2J	 NON-LOCKING 2BB 2BB	 LOCKING 12R	(d)8J BLACK (d)8J RED 2ABK BLACK 						

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

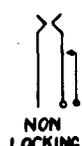
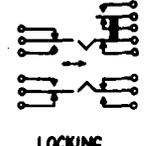
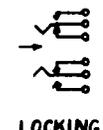
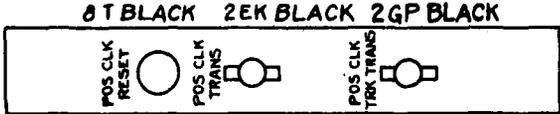
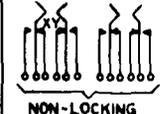
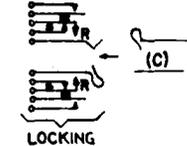
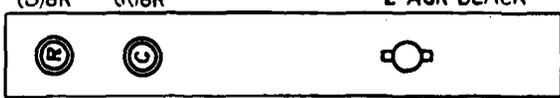
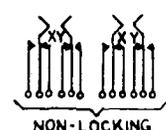
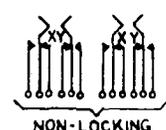
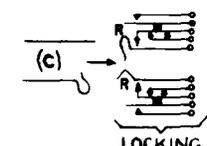
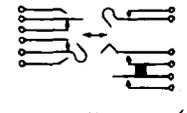
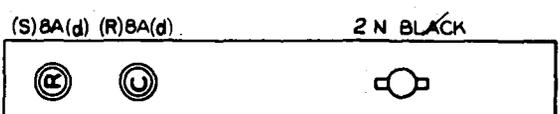
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A2 Keys (Contd.)

CONT. PGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
21	A2CB		 <p>NON-LOCKING NON-LOCKING NON-LOCKING LOCKING</p> <p>4R 71B, 12R 26B, 97B</p>	 <p>(e) 6 B RED 2 F RED 2 N BLACK</p>	(a, b)					
21	A2CR		 <p>NON LOCKING NON LOCKING LOCKING LOCKING LOCKING</p> <p>4R 4R, 12R</p>	 <p>(e) 8B RED 2ACK BLACK 2RB BLACK</p>	(a)					
22	A2AA		 <p>NON-LOCKING LOCKING</p> <p>2BB 2BB 43B</p>	 <p>(d) 6A BLACK (d) 6A RED 2N BLACK</p>	(a)					

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

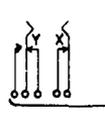
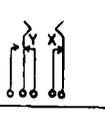
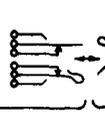
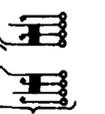
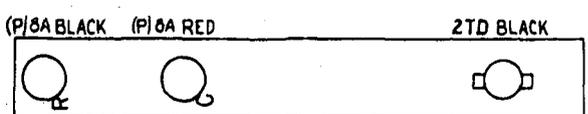
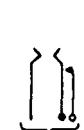
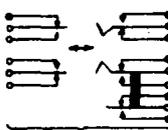
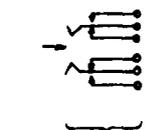
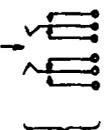
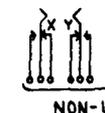
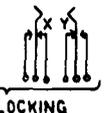
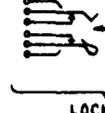
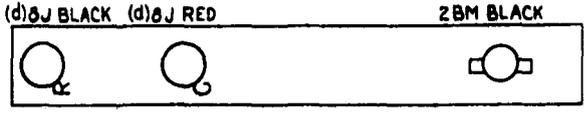
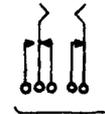
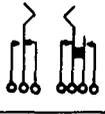
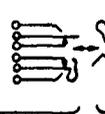
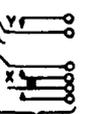
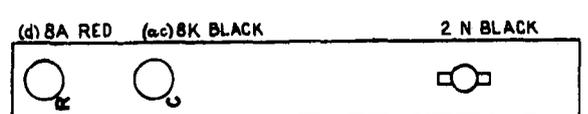
CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
22	A2CS		 <p>NON LOCKING 4R</p>	 <p>LOCKING 1B</p>	 <p>LOCKING 1B</p>	 <p>0 T BLACK 2EK BLACK 2GP BLACK</p>				(dr)
22	A2CW	 <p>NON-LOCKING 2BB</p>		 <p>LOCKING 75B</p>		 <p>(S)8R (R)8R 2 AGR BLACK</p>				
22	A2CY	 <p>NON-LOCKING 2BB</p>	 <p>NON-LOCKING 2BB</p>	 <p>LOCKING 75B</p>		 <p>(S)8R (R)8R 2 AGR BLACK</p>				
22	A2DD	 <p>NON-LOCKING</p>		 <p>LOCKING</p>		 <p>(S)8A(d) (R)8A(d) 2 N BLACK</p>				(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

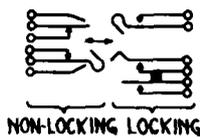
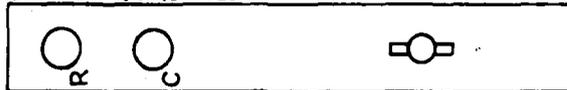
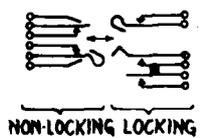
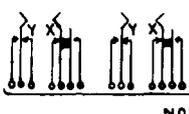
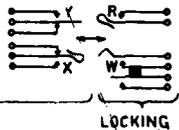
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Jan 1954

A2 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
23	A2U									
23	A2BJ						8T BLACK	2GW BLACK	2GP BLACK	(dr)
24	A2H									(a)
24	A2BE									(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
25	A2CC					(d) B A BLACK (d,ad) B C RED		2 N BLACK		(a)
25	A2CF					(d) B A RED (d,ad) B C BLACK		2 N BLACK		(a)
26	A2F					(a) A A BLACK (a) B K RED		2 A J BLACK		(af)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

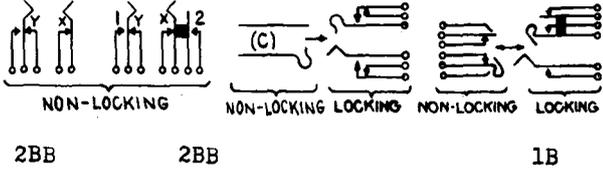
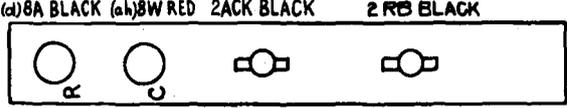
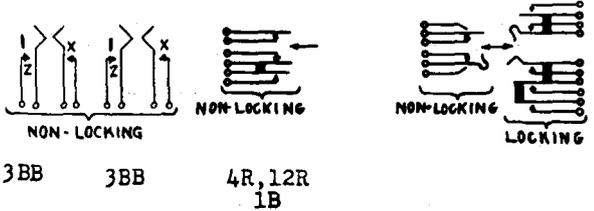
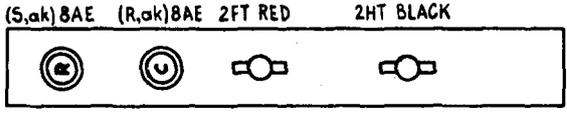
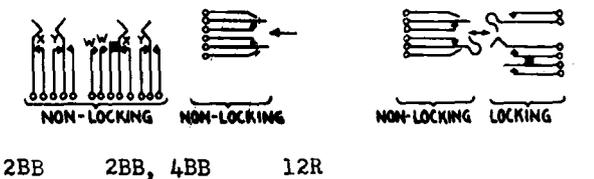
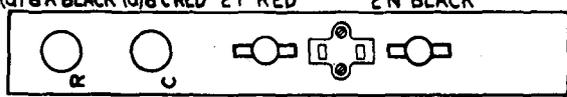
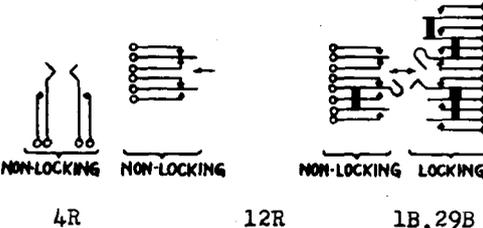
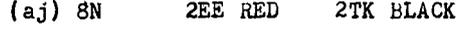
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A2 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
26	A2BG									(a)
27	A2CU									(a, b)
28	A2B									(a, b)
28	A2R									(a, b)

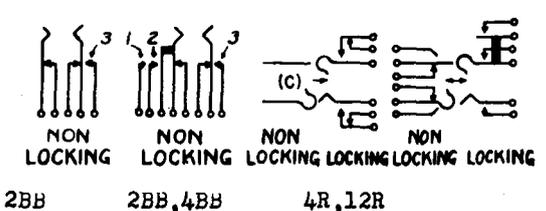
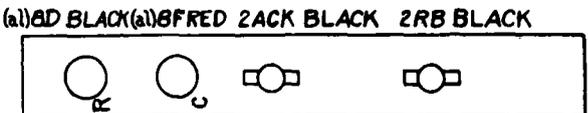
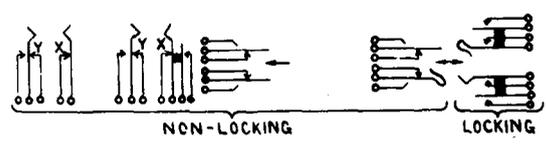
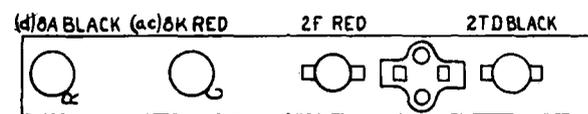
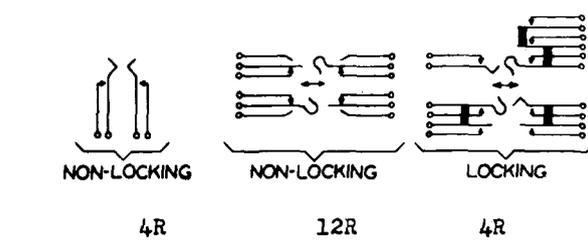
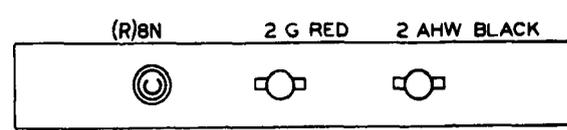
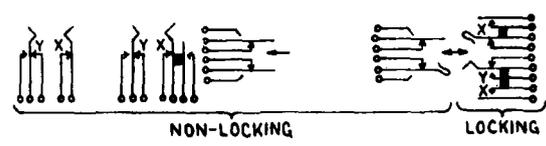
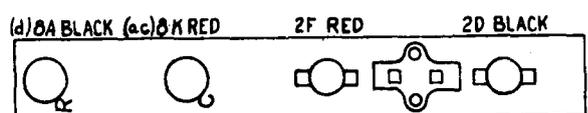
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
30	A2BS									(a)
30	A2BW									(a)
31	A2CA									(a, b)
31	A2CE									

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

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A2 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
31	A2CP	 <p>NON LOCKING NON LOCKING NON LOCKING LOCKING LOCKING LOCKING</p> <p>2BB 2BB,4BB 4R,12R</p>	 <p>(a) 2B BLACK (a) 2BF RED 2ACK BLACK 2RB BLACK</p>	(a)						
32	A2W	 <p>NON-LOCKING LOCKING</p> <p>2BB 2BB 12R</p>	 <p>(d) 2BA BLACK (ac) 2BK RED 2F RED 2DBLACK</p>	(a, b)						
32	A2DA	 <p>NON-LOCKING NON-LOCKING LOCKING</p> <p>4R 12R 4R</p>	 <p>(R)BN 2 G RED 2 AHW BLACK</p>	(a)						
33	A2L	 <p>NON-LOCKING LOCKING</p> <p>2BB 2BB 12R 66B</p>	 <p>(d) 2BA BLACK (ac) 2BK RED 2F RED 2D BLACK</p>	(a, b)						

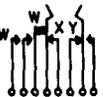
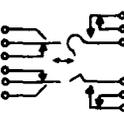
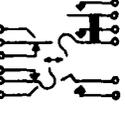
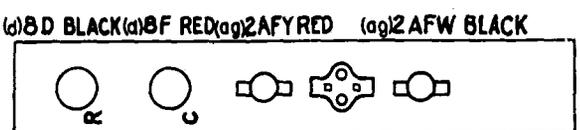
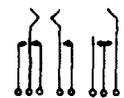
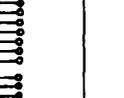
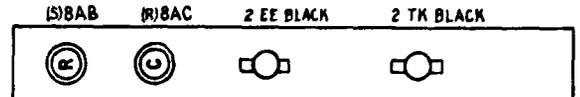
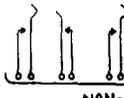
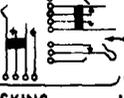
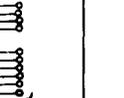
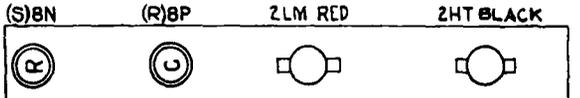
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 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
34	A2BB	<p>NON-LOCKING LOCKING</p> <p>3BB 4R, 3BB 12R</p>				<p>(S) 8AB (R) 8AC 2 F BLACK 2 HT BLACK</p>				(a)
34	A2BL	<p>NON-LOCKING NON-LOCKING LOCKING NON-LOCKING LOCKING</p> <p>4R, 3BB 4R, 3BB 8B 8B</p>				<p>(S) 8N (R) 8N 2 YS RED 2 TD BLACK</p>				(a)
37	A2AS	<p>NON-LOCKING LOCKING</p> <p>4R 12R</p>				<p>(S) 8AB (R) 8AC 2 EE BLACK (y) 2 PG BLACK</p>				

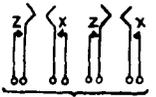
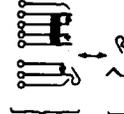
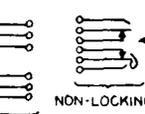
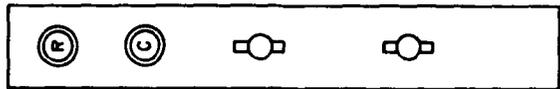
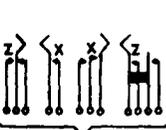
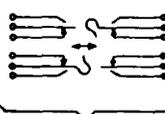
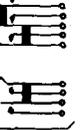
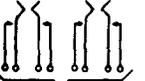
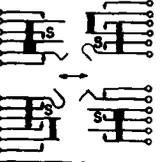
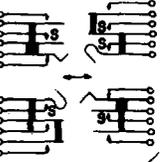
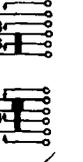
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

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A2 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
37	A2CT	 NON LOCKING 2BB	 NON LOCKING 2BB, 4BB	 NON LOCKING 8B	 NON LOCKING 8B	 (d) 8D BLACK (d) 8F RED (ag) 2AFY RED (ag) 2AFW BLACK	(a, b)			
39	A2BH	 NON-LOCKING 4R	 NON-LOCKING 12R	 LOCKING 12R	 LOCKING 12R	 (S) 8AB (R) 8AC 2 EE BLACK 2 TK BLACK				
40	A2AJ	 NON-LOCKING 4R	 LOCKING 4R	 NON-LOCKING 19B	 LOCKING 19B	 (S) 8N (R) 8P 2LM RED 2HT BLACK	(a)			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW				REF. NOTES
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT	
40	A2BM	 4R,3BB	 4R,3BB	 8B	 8B		(a)			
40	A2DB	 3BB	 4R,3BB	 12R			(a)			
56	A2DC	 4R 4R	 4R,23C	 4R,23C	 4R,23C	8N BLACK 8N BLACK 2AME BLACK 2AME BLACK				

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

EXCEPTIONS TO STANDARD REQUIREMENTS

- 4R - Standard sequence requirement does not apply.
- 12R - Standard nonclick requirement does not apply.
- 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
- 2B - Closed contacts in each set of break-before-make contacts shall break before its associate open contacts make.
- 2BB - Normally closed contact X shall break before normally closed contact Y breaks.

- 3BB - Normally open contact X shall make before normally open contact Z makes.
- 4B - Closed contacts P operated by one throw of lever to either side from the normal position shall break before either of open contacts R make.
- 4BB - Standard sequence requirement does not apply to W contacts.
- 5B - Closed contact W shall break after its associate open contact Y makes.
- 6B - Closed contact R shall break after its associate open contact X makes.
- 8B - Standard sequence requirement applies only to contacts of nonlocking spring combinations.
- 9B - W contacts need not break before the open contacts make.
- 10B - Exception 1B need not apply to X contacts.
- 11B - X contact shall make before Y contact makes.
- 12B - Closed contact R shall break before open contact P makes.
- 14B - Exception 1B need not apply to W contacts
- 15B - Standard sequence requirement does not apply to X and Y contacts.

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EXCEPTIONS TO STANDARD REQUIREMENTS (Cont'd.)

- 19B - Any contact X shall make before any contact Y breaks.
- 20B - X contacts operated by one throw of lever shall make before W contacts break.
- 21B - Both Y contacts shall make before either X contact makes.
- 22B - Both Z contacts shall make before either W contact makes.
- 23B - X contact shall break before Y contact breaks.
- 24B - Closed contacts W shall break after open contacts Y make.
- 25B - Normally closed contacts X shall break before normally open outside contacts make.
- 26B - Standard sequence requirement need apply only to each spring pile-up individually.
- 27B - Standard sequence requirement does not apply between the normally open contact making on the plunger spring in the 5-spring pile-up and the normally closed contact in the 3-spring pile-up both on the locking side.
- 28B - X contacts shall make before the W contact makes.
- 29B - Exception 1B shall apply only to the locking combinations.
- 30B - Contacts Y shall make before contacts W break.
- 31B - X contact shall make before Y and W contacts make.
- 33B - Y contacts shall make before W and X contacts break.
- 35B - Open contacts X operated by one throw of lever to either side from the normal position shall make before closed contacts Y break.
- 36B - Standard sequence requirement does not apply to R contacts.
- 37B - X contacts shall make before their associate W contacts break.
- 38B - Closed contact Y shall break after open contact W makes.
- 39B - Closed contacts X shall break after open contacts Y make.

EXCEPTIONS TO STANDARD REQUIREMENTS (Cont'd.)

- 40B - Standard sequence requirement does not apply between contacts X and Y and the contact spring making contact with the shepherd crook spring.
- 42B - Z contact shall close after all other normally open contacts have closed and after R contacts have opened.
- 43B - X contact shall make before Y contacts make.
- 44B - Contacts marked X shall make before contacts marked Y break. Contacts marked Y shall break before contacts marked R break.
- 45B - Contacts marked X shall break before contacts marked W break.
- 46B - X contacts shall make before their associate Y contacts make.
- 47B - All closed contacts operated by one throw of lever to either side from the normal position shall break before open contacts make, a momentary break will be satisfactory.
- 48B - When the lever is in the operated position in either direction and is returned to normal position, X contact shall break before any other contact breaks.
- 50B - Contacts W shall make before contact R makes.
- 51B - Contacts Y shall make before contacts W in same spring pile-up break.
- 52B - Contact X shall break before contacts Y make.
- 53B - Contact P shall break before contact S makes.
- 54B - Standard sequence requirement does not apply to X contacts.
- 55B - Contact X shall make before its associate contact Y in the same spring pile-up makes.
- 56B - Contact X shall break before contact Y operated by the same throw of lever and making on the plunger spring makes.

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EXCEPTIONS TO STANDARD REQUIREMENTS (Cont'd.)

- 57B - Exception 47B shall apply only to the contacts in the locking spring combinations.
- 59B - Z contact shall make after X and Y contacts make and after W contacts break.
- 60B - Exception 2B shall apply only to the combinations designated "B."
- 61B - Contact X shall make before contact W breaks. Contact W shall break before contact Y makes.
- 65B - Standard sequence requirement does not apply to W contacts.
- 66B - Contact Y shall make before contacts X make.
- 70B - Contacts X shall make before contacts Y make.
- 71B - Contact X shall make before contact Y makes.
- 75B - Contacts R shall make before contacts S break.
- 76B - Contacts X shall break before their associate Y contacts make.
- 78B - X contacts shall make before R contacts break.
- 79B - All X and Y contacts shall make before either W contact breaks.
- 80B - Z contact shall make after both W contacts break.
- 81B - X contact shall break before Y contacts break.
- 82B - Each X contact shall make before its associate W contact makes.
- 85B - Exception 1B need not apply to the break-before-make-before-break spring combination.

- 91B - Exception 2B shall apply to the locking combinations.
- 94B - Both R contacts shall break before Z contact makes.

EXCEPTIONS TO STANDARD REQUIREMENTS (Cont'd)

- 95B - Both X contacts shall make before either R contact breaks.
- 96B - Both Y contacts shall make before either X contact makes. Both X contacts shall make before either R contact breaks. Contact Z shall make after both R contacts break.
- 97B - R contact shall make before Z contact makes.
- 99B - Normally closed contact X shall break before normally open contact Y makes.
- 104B - Exception 2B shall apply to the contacts on that side of the key unit where one set of break-before-make and two sets of make contacts are operated.
- 111B - Both pair of X contacts shall break before either pair of outer normally open contacts make.
- 1C - Standard nonclick requirement applies only to contact of nonlocking spring combination.
- 4C - Standard nonclick requirement does not apply to normally closed contacts.
- 5C - Standard nonclick requirement does not apply to normally open contact making on plunger spring in 5-spring pile-up.
- 6C - Standard nonclick requirement applies only to contacts of locking spring combination.
- 7C - Standard nonclick requirement does not apply to the inner contacts of the nonlocking combination or to Y contacts of the locking combination.
- 8C - Standard nonclick requirement does not apply to W contacts
- 9C - Standard nonclick requirement does not apply to Y contacts or to normally open R contact.
- 11C - Standard nonclick requirement does not apply to Y contacts.

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EXCEPTIONS TO STANDARD REQUIREMENTS (Cont'd.)

- 12C - Standard nonclick requirement does not apply to inner contacts X of the make-before-break contacts.
- 13C - Standard nonclick requirement does not apply to the contact made on the shepherd crook spring in the locking combination.
- 14C - Standard nonclick requirement does not apply to X contacts.
- 15C - Standard nonclick requirement does not apply to combination B.
- 16C - Standard nonclick requirement does not apply to 5-spring pile-up and 7-spring pile-up which are operated by one throw of the lever.
- 17C - When the lever is released unrestrained from a locked position, the normally closed contacts W shall not open momentarily after the normally open contacts Y of these combinations are broken.
- 19C - Standard nonclick requirement does not apply to R contacts.
- 21C - Standard nonclick requirement applies only to W and Z contacts.
- 22C - Standard nonclick requirement does not apply to normally closed contacts of the nonlocking combination.
- 23C - Standard nonclick requirement applies only to S contacts.
- 25C - Standard nonclick requirement applies only to normally closed contacts of the locking combination.
- 26C - Standard nonclick requirement applies only to the four make spring combination.
- 29C - Standard nonclick requirement applies only to W contacts.
- 30C - Deterioration allowance for nonclick adjustment requirement.

REFERENCE NOTES

- a - Contacts without arrowheads are for ringing only.
- b - Has indicator.
- c - Cushion springs to reduce noise.
- d - No. 2 metal contacts.
- e - Heavy No. 2 metal contacts.
- f - Heavy contacts.
- g - Contacts 1, 2, 3, and 4 are heavy.
- h - When engraving is unspecified, key furnished unengraved.
- j - Engraved as shown unless otherwise specified.
- k - When engraving is unspecified, key furnished engraved as shown.
- l - Equipped with keytop per Fig. 1 or 2 if specified, otherwise unengraved keytop furnished.
- m - Exception 4R applies to R contacts.
- x - Engraved as specified.
- P - Platinum contacts except heavy platinum-iridium message register contacts of 8K key units.
- pp - Heavy platinum-iridium contacts.
- R - Molded, metal frame button having red background with black characters.
- S - Molded, metal frame button having black background with white characters.
- t - Contacts 1 and 2 are heavy.
- u - Closed inside contact of upper half of spring combination is heavy.
- v - Nonlocking combination has heavy contacts.
- w - Contacts are heavy except at 1.

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REFERENCE NOTES (Contd.)

- y - Break-make springs of nonlocking combination have heavy contacts.
- z - Contacts 1 to 8 are heavy.
- aa - Contacts at 1 are heavy.
- ab - Requirement 4 applies only to combinations operated by rearward lever movement.
- ac - No. 2 metal contacts except heavy platinum-iridium message register contacts of 8K key unit.
- ad - Make-make contacts are heavy.
- ae - No. 2 metal contacts except heavy platinum-iridium message register contacts of 8K key unit. Make combination of 8AA key unit has heavy No. 2 metal contacts.
- af - Nickel first service; subscriber may obtain emergency connection under operator's supervision without depositing coin.
- ag - Normally closed contacts of break-make combinations are heavy.
- ah - No. 2 metal contacts, except contact 1 (heavy No. 2 metal) and contact 2 (heavy platinum-iridium).
- ak - No. 2 metal contacts except contact 1 (heavy No. 2 metal).
- aj - Molded, metal frame button with red insert.
- al - No. 2 contact metal except contacts 1, 2, and 3 (heavy No. 2 metal).
- ap - Contacts 1, 2, and 3 are heavy.
- ar - Has No. 38A shield.
- as - Contacts are heavy No. 2 metal except contacts 1, 2, and 3 (No. 2 metal).
- at - Requirement 12 need not apply to contacts in combinations shown on left side of schematic.

REFERENCE NOTES (Contd.)

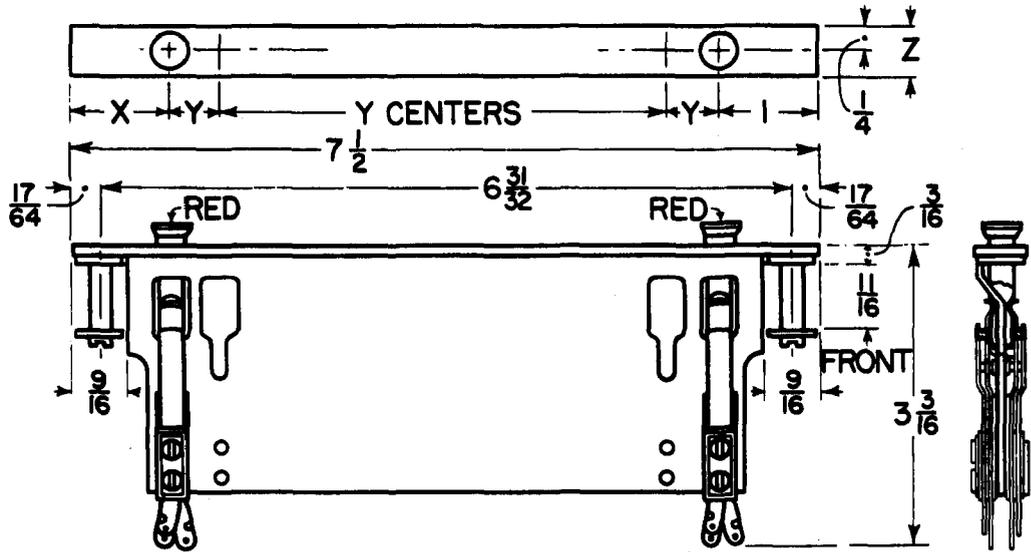
- au - Unless otherwise indicated, engraving is crosswise on keytop.
- av - Engraved OPR at middle of keytop, at right of handle when viewed from front.
- aw - Engraving is lengthwise on keytop.
- ax - Engraved T at middle of keytop, at right of handle when viewed from front.
- ay - Engraved lengthwise on keytop, OSC RESISTANCE above slot and 1, 2, and 3 (denoting position of lever) below slot.
- az - Engraved lengthwise on keytop, OSC COND KEY above slot and 1, 2, and 3 (denoting position of lever) below slot.
- ba - Engraved 4 below slot.
- bb - Contacts 1 to 5 are heavy.
- bc - Engraved 1 at left of and TEST, OPEN, CALB at right of key handle.
- bd - Engraved 2 at left of and TEST, OPEN, CALB at right of key handle.
- be - Metal frame button having black characters on white background.
- bf - Engraved with black characters.
- bg - Engraved with white characters.
- bh - Contact A shall make before associate contact B makes.
- bj - Combination B has No. 2 metal contacts. Normally open contact of the coin collect combination has heavy No. 2 metal contacts.
- bk - Combinations B and E have No. 2 metal contacts; local contacts of E combination are heavy No. 2 metal.
- bl - Combination B has No. 2 metal contacts, except contact 1 (heavy No. 2 metal).
- bm - Combinations E and G have No. 2 metal contacts, except contacts 1, 2, 3, and 4 (heavy No. 2 metal).

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REFERENCE NOTES (Contd.)

- bn - Contacts of "Collect" and "Return" buttons are No. 2 metal.
"Collect" make contacts on right of schematic are heavy No. 2 metal.
- bp - Contacts of "Collect" and "Return" buttons are No. 2 metal.
"Return" make contacts on left of schematic are heavy No. 2 metal.
- br - Has molded metal frame buttons.
- bs - Has No. 2 metal contacts, except local platinum-iridium contacts of G combination.
- bt - Contacts of B combination are No. 2 metal. Inner contacts of C combination are No. 2 metal; make contact of break-make combination is heavy No. 2 metal; local contact is platinum-iridium.
- bu - Contacts of B combination are No. 2 contact metal. Normally open contact of coin collect combination has heavy No. 2 metal contacts.
- bv - Contacts of D combination are No. 2 contact metal. Contact 1 of coin collect combination has heavy No. 2 metal contacts.
- bw - Combinations B and H have No. 2 metal contacts.
- bx - Push buttons have No. 2 metal contacts; contact 1 is heavy No. 2 metal.
- by - Has ticket clip at front.
- bz - Schematics shown for position 1. All positions are locking.
- dr - Certain operating springs follow lever (which operates in one direction only).

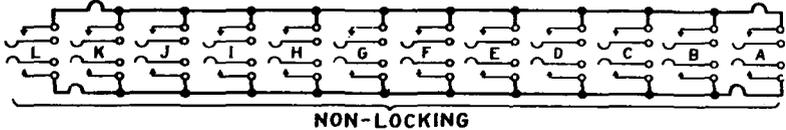
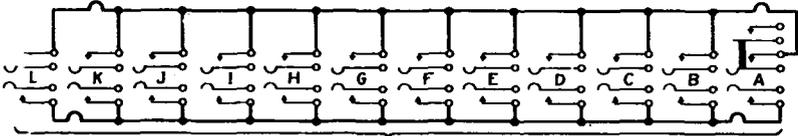
A3-TYPE KEYS



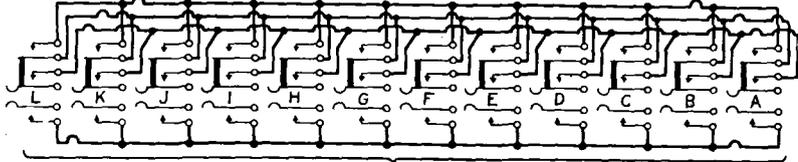
A3A Also General Design and Dimensions of A3 Type

These keys are equipped with six or twelve nonlocking push buttons. Furnished with red unengraved flat top buttons unless otherwise specified. When specified will be furnished with cupped-head red buttons.

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CONT. SPGS.	CODE	SCHEMATIC	X	Y	Z
24	A3B	Same as A3A except spring combinations B,D,F,H,J, and L are omitted.	1-1/2	1	1/2
26	A3D	Same as A3C except spring combinations B,D,F,H,J, and L are omitted.	1-1/2	1	5/8
36	A3E	Same as A3G except spring combinations B,D,F,H,J, and L are omitted.	1-1/2	1	5/8
48	A3A	 <p>NON-LOCKING</p>	1	1/2	1/2
50	A3C	 <p>NON-LOCKING</p>	1	1/2	5/8

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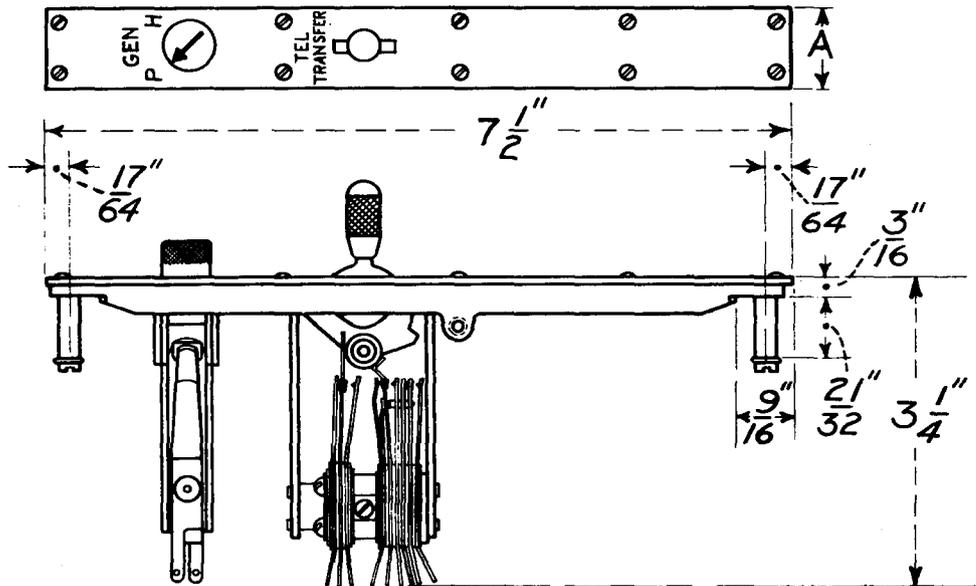
CONT. SPGS.	CODE	SCHEMATIC	X	Y	Z
50	A3F	Same as A3C except A and L spring combinations are interchanged.	1	1/2	5/8
72	A3G (a)	 <p style="text-align: center;">NON-LOCKING</p>	1	1/2	5/8

A3 Keys (Contd.)

(a) - Furnished unstrapped when specified in order.



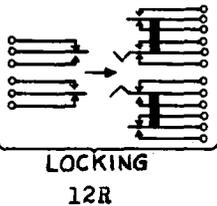
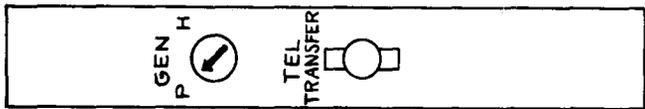
A4-TYPE KEYS



A4C Also General Design and Dimensions of A4 Type

These keys are equipped with a rotating plunger-type key unit and, when indicated for the individual code, a lever-type key unit. Maximum equipment is shown above.

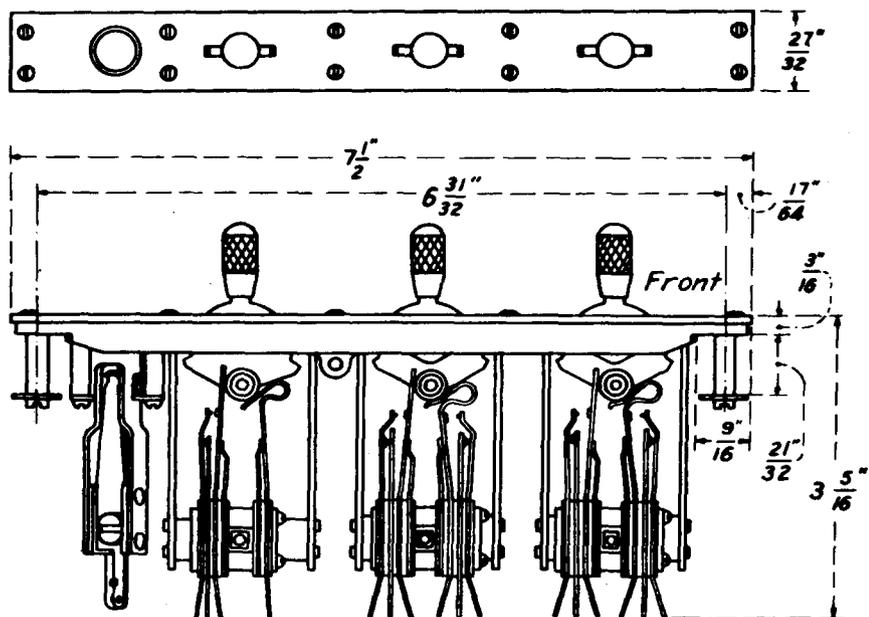
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CONT. SPGS.	CODE	SCHEMATIC			ENGRAVING			DIM. A
		REAR	MIDDLE	FRONT	REAR	MIDDLE	FRONT	
6	A4A				3B RED		1-1/32	
24	A4C (dr)				3B RED	2HA RED		27/32

12R - Standard nonclick requirement does not apply.

(dr) - Certain operating springs follow lever (which operates in one direction only).

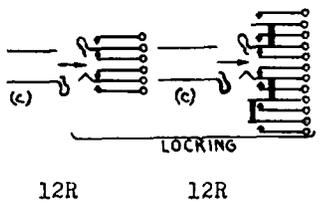
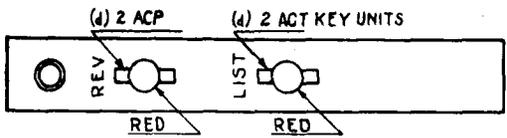
A5-TYPE KEYS



A5L Also General Design and Dimensions of A5 Type

These keys are equipped with one, two, or three lever-type key units as indicated for the individual codes, and one lamp socket for a No. 2-type lamp.

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CONT. SPCS.	CODE	SCHEMATIC			ENGRAVING		
		REAR	MIDDLE	FRONT	REAR	MIDDLE	FRONT
18	A5K						

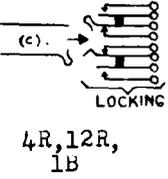
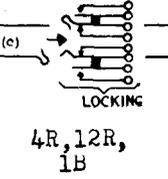
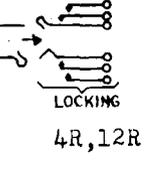
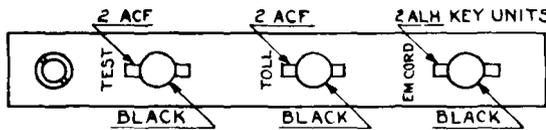
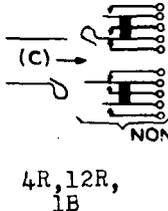
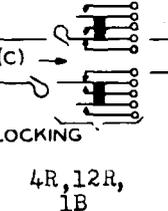
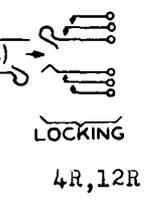
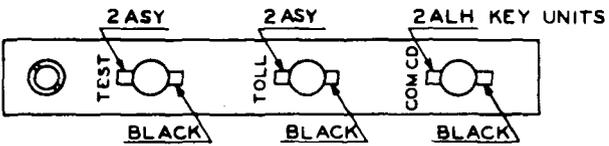
4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.

(C) - Cushion springs to reduce noise.
 (d) - No. 2 metal contacts.

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A5 Keys (Contd.)

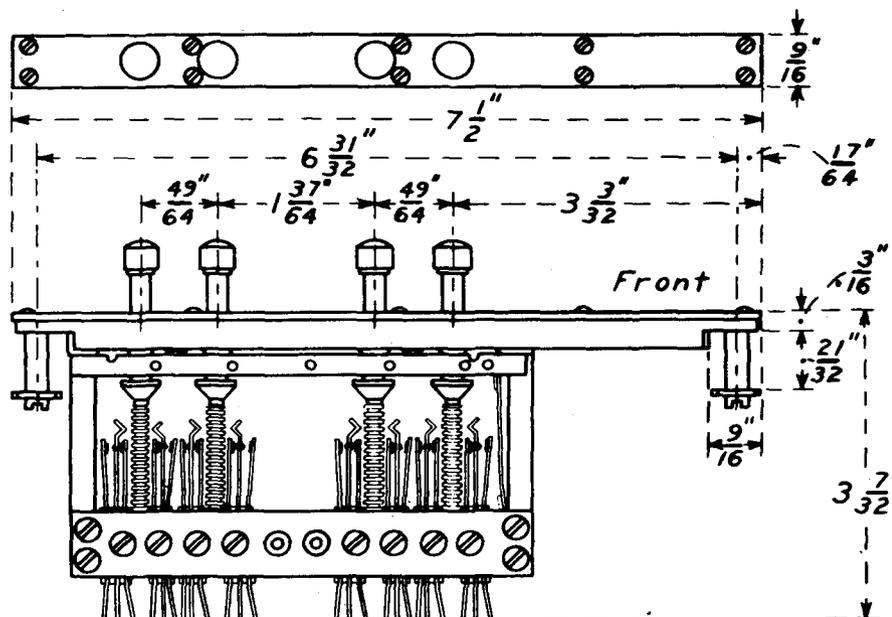
CONT. SPGS.	CODE	SCHEMATIC			ENGRAVING		
		REAR	MIDDLE	FRONT	REAR	MIDDLE	FRONT
22	A5U	 <p>4R, 12R, 1B</p>	 <p>4R, 12R, 1B</p>	 <p>4R, 12R</p>			
26	A5Y	 <p>4R, 12R, 1B</p>	 <p>4R, 12R, 1B</p>	 <p>4R, 12R</p>			

4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.

(C) - Cushion springs to reduce noise.
 (d) - No. 2 metal contacts.



A6- AND A7-TYPE KEYS



A6A1 Also General Design and Dimensions of A6 Type

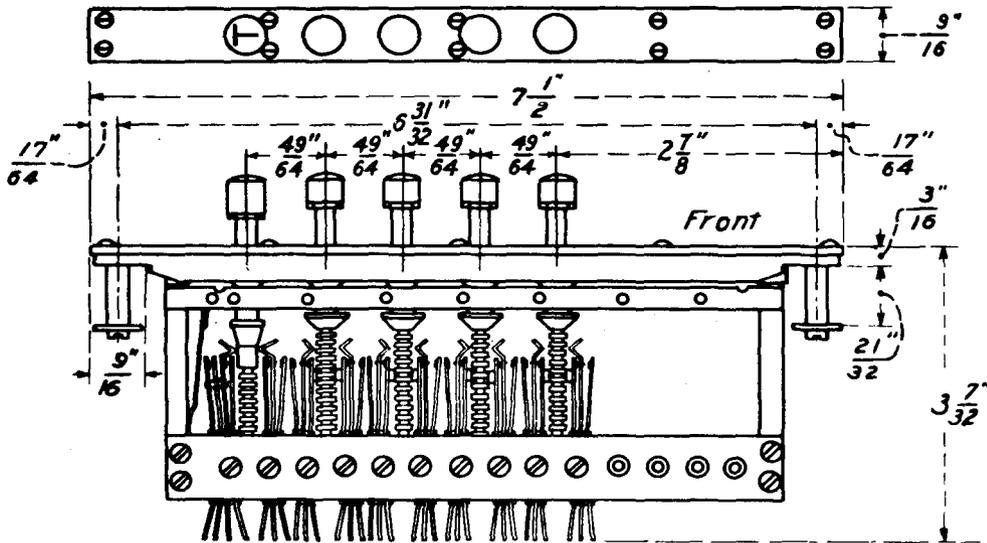
This key is equipped with one or more push buttons as indicated for the individual codes.

Contact springs are operated only when the push buttons are fully depressed. Locking buttons lock in a fully depressed position, and indicating buttons lock in a semidepressed or indicating position (thus

(Continued on Next Page)

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A6- AND A7-TYPE KEYS (Cont'd.)



A7A1 Also General Design and Dimensions of A7 Type

indicating which was depressed last). Push buttons when locked are released by the operation of any other locking indicating push button, but not by the operation of a nonlocking button.

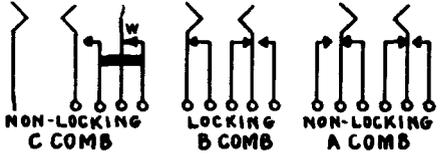
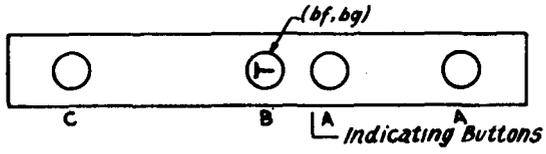
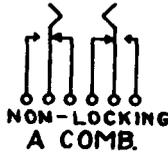
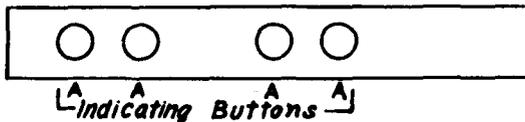
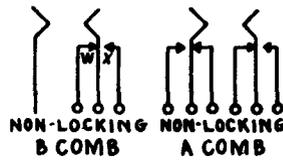
The A6 and A7 types are similar in general design but have different spacing of the push buttons.

Jan 1954

A6 Keys

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
12	A6D1 A6D2 A6D3	<p>NON-LOCKING A COMB.</p>	<p>Indicating Buttons</p>
16	A6T1 A6T2 A6T3	<p>NON-LOCKING C COMB. NON-LOCKING A COMB.</p> <p>2A 2A</p>	<p>C A A</p> <p>Indicating Buttons</p>
19	A6H1 A6H2 A6H3	<p>NON-LOCKING A COMB. LOCKING B COMB.</p>	<p>(bf, bg)</p> <p>B A A</p> <p>Indicating Buttons</p>

* For all codes, buttons are: 1 - Red, 2 - White, 3 - Black. (bg) - Buttons engraved with a white character for -3.
 (bf) - Buttons engraved with a black character for -1 and -2. 2A - Standards sequence requirement shall not apply to W contacts.

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
21	A6S1 A6S2 A6S3	 <p style="text-align: center;">2A 2A 2A</p>	
24	A6A1 A6A2 A6A3	 <p style="text-align: center;">NON-LOCKING A COMB.</p>	
27	A6R1 A6R2 A6R3	 <p style="text-align: center;">2B 2B</p>	

* For all codes, buttons are: 1 - Red, 2 - White, 3 - Black.
 (bf) - Buttons engraved with a black character for -2 and -2.
 (bg) - Buttons engraved with a white character for -3.

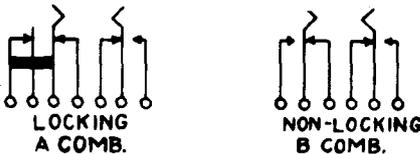
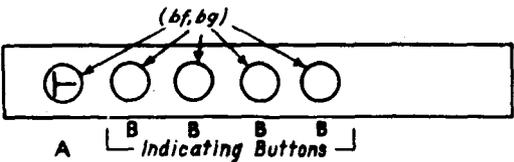
2A - Standard sequence requirement shall not apply to W contacts.
 2B - X contacts shall make before W contacts break.

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A6 Keys (Contd.)

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
28	A6N1 A6N2 A6N3	<p style="text-align: center;">2A 2A</p>	<p style="text-align: center;">B A A A A Indicating Buttons</p>
33	A6P1 A6P2 A6P3	<p style="text-align: center;">2A 2A 2A</p>	<p style="text-align: center;">C B A A A A Indicating Buttons</p>
37	A6L1 A6L2 A6L3	<p style="text-align: center;">2A 2A 2A</p>	<p style="text-align: center;">C B A A A A Indicating Buttons</p>

* For all codes, buttons are: 1 - Red, 2 - White, 3 - Black. (bh) - Contact A shall make before associated contact B makes.
 (bf) - Buttons engraved with a black character for -1 and -2. 2A - Standard sequence requirement shall not apply to W contacts.
 (bg) - Buttons engraved with a white character for -3.

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
31	A7A1 A7A2 A7A3	 <p>LOCKING A COMB.</p> <p>NON-LOCKING B COMB.</p>	 <p>(bf, bg)</p> <p>A [B B B B] Indicating Buttons</p>

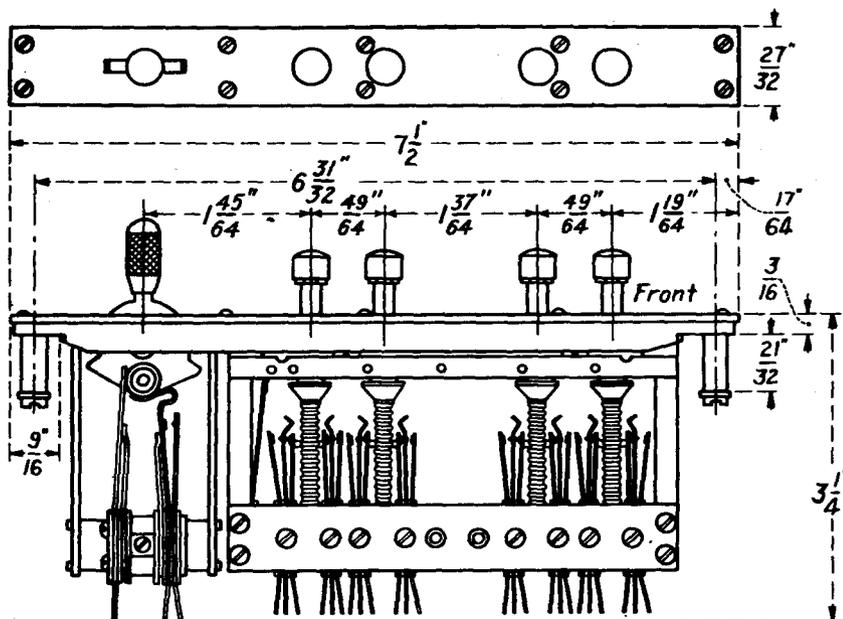
A7 Keys

Jan 1954

* For all codes, buttons are: 1 - Red, 2 - White, 3 - Black.
 (bf) - Buttons engraved with a black character for -1 and -2.

(bg) - Buttons engraved with a white character
 for -3.

A8-TYPE KEYS

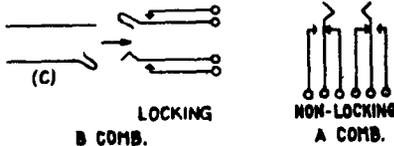
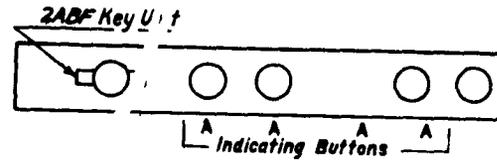
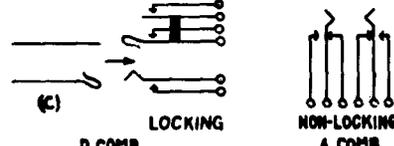
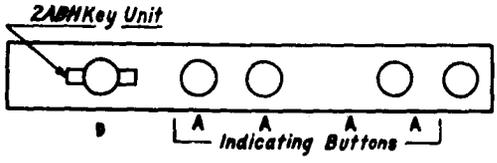
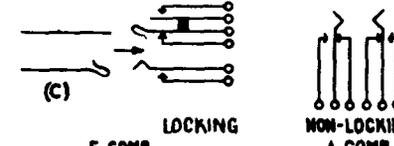
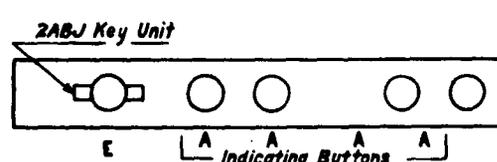


A8A1 Also General Design and Dimensions of A8 Type

These keys are equipped with one lever-type key unit and four or five indicating push buttons.

Contact springs associated with push buttons are operated only when the push buttons are fully depressed. Indicating buttons lock in a semi-depressed or indicating position (thus indicating which was depressed last). When locked they are released by the operation of any other indicating button.

X-75506

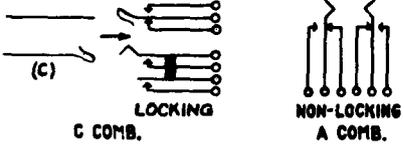
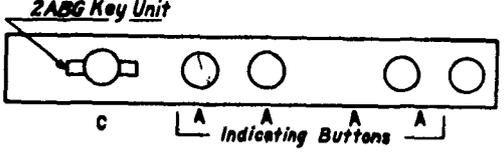
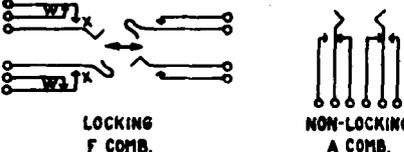
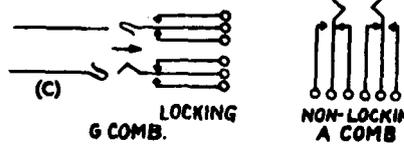
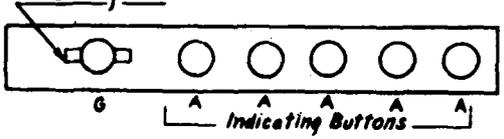
CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
28	A8A1 A8A2 A8A3	 <p>(C)</p> <p>LOCKING B COMB.</p> <p>NON-LOCKING A COMB.</p> <p>4R, 12R</p>	 <p>2ABF Key Unit</p> <p>Indicating Buttons</p>
30	A8C1 A8C2 A8C3	 <p>(C)</p> <p>LOCKING D COMB.</p> <p>NON-LOCKING A COMB.</p> <p>4R, 12R</p>	 <p>2ABH Key Unit</p> <p>Indicating Buttons</p>
30	A8D1 A8D2 A8D3	 <p>(C)</p> <p>LOCKING E COMB.</p> <p>NON-LOCKING A COMB.</p> <p>12R</p>	 <p>2ABJ Key Unit</p> <p>Indicating Buttons</p>

* For all codes, button and handle color is: 1 - Red,
2 - White, 3 - Black, unless otherwise indicated.
4R - Standard sequence requirement does not apply.

12R - Standard nonclick requirement does not apply.
(C) - Cushion springs to reduce noise.

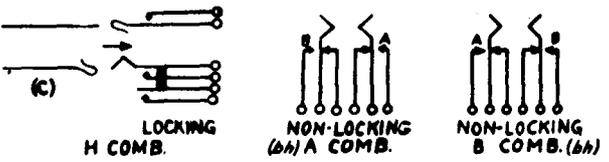
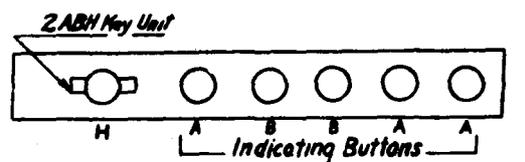
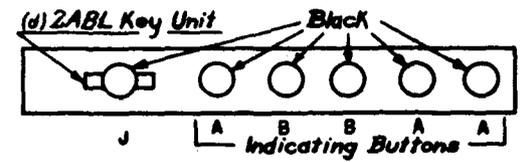
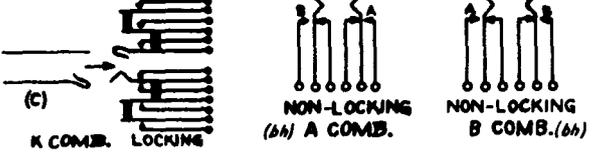
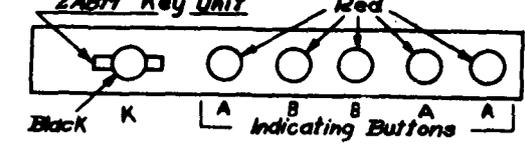
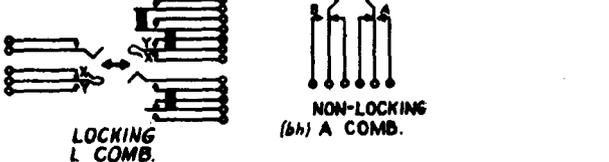
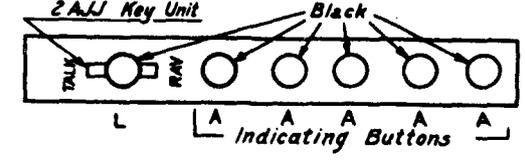
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A8 Keys (Contd.)

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
31	A8B1 A8B2 A8B3	 <p>(C)</p> <p>LOCKING C COMB.</p> <p>NON-LOCKING A COMB.</p> <p>12R</p>	 <p>2ABG Key Unit</p> <p>C</p> <p>A A A A</p> <p>Indicating Buttons</p>
34	A8E1 A8E2 A8E3	 <p>LOCKING F COMB.</p> <p>NON-LOCKING A COMB.</p> <p>37B</p>	 <p>2RC Key Unit</p> <p>F</p> <p>A A A A</p> <p>Indicating Buttons</p>
36	A8G1 A8G2 A8G3	 <p>(C)</p> <p>LOCKING G COMB.</p> <p>NON-LOCKING A COMB.</p> <p>12R</p>	 <p>2ABX Key Unit</p> <p>G</p> <p>A A A A A</p> <p>Indicating Buttons</p>

* For all codes, button and handle color is: 1 - Red,
2 - White, 3 - Black, unless otherwise indicated.
12R - Standard nonclick requirement does not apply.

37B - X contacts shall make before their asso-
ciate W contacts break.
(C) - Cushion springs to reduce noise.

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
36	A8H1 A8H2 A8H3	 <p>(C) LOCKING H COMB. NON-LOCKING (bh) A COMB. NON-LOCKING B COMB. (bh)</p> <p>4R, 12H</p>	 <p>2A8H Key Unit H A B B A A Indicating Buttons</p>
39	A8J	 <p>(C) J COMB. LOCKING NON-LOCKING (bh) A COMB. NON-LOCKING B COMB. (bh)</p> <p>12R</p>	 <p>(d) 2A8J Key Unit Black J A B B A A Indicating Buttons</p>
43	A8K	 <p>(C) K COMB. LOCKING NON-LOCKING (bh) A COMB. NON-LOCKING B COMB. (bh)</p> <p>12R</p>	 <p>2A8K Key Unit Red Black K A B B A A Indicating Buttons</p>
47	A8L	 <p>LOCKING L COMB. NON-LOCKING (bh) A COMB.</p> <p>4R, 12R, 56B</p>	 <p>2A8L Key Unit Black TALLY L A A A A Indicating Buttons</p>

* For all codes, button and handle color is:
1 - Red, 2 - White, 3 - Black, unless otherwise indicated.

4R - Standard sequence requirement does not apply.
12R - Standard nonclick requirement does not apply.

56B - Contact X shall break before contact Y operated by the same throw of lever and making on the plunger spring makes.

(C) - Cushion springs to reduce noise.

(bh) - Contact A shall make before associated contact B makes.

(d) - No. 2 metal contacts.

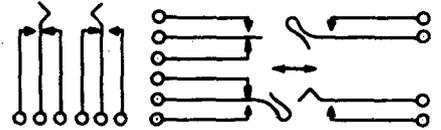
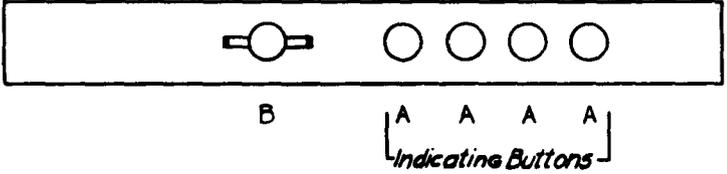
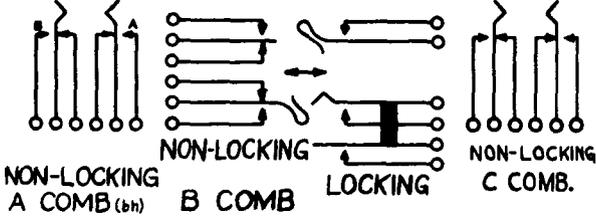
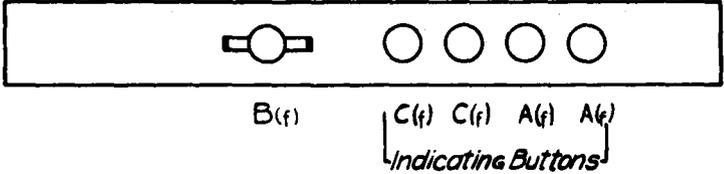
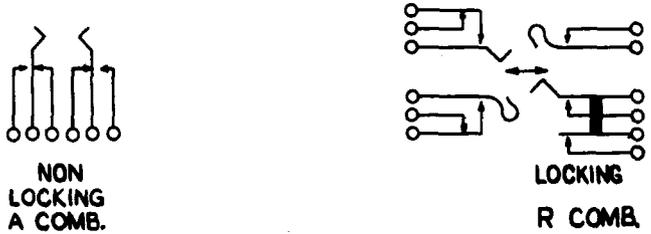
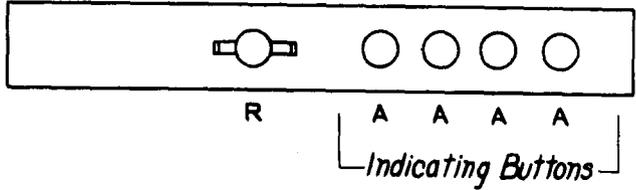
CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
28	A9S1 A9S2 A9S3	<p>NON-LOCKING A COMB</p> <p>B COMB</p> <p>(C)</p> <p>LOCKING</p> <p>4R</p>	<p>B</p> <p>A A A A</p> <p>Indicating Buttons</p>
32	A9D1 A9D2 A9D3	<p>NON-LOCKING A COMB.</p> <p>NON-LOCKING D COMB.</p> <p>(C)</p> <p>LOCKING M COMB.</p> <p>4R, 12R</p>	<p>Red</p> <p>(cd)</p> <p>D M A A A A</p> <p>Indicating Buttons</p>
33	A9L1 A9L2 A9L3	<p>NON-LOCKING A COMB.</p> <p>NON-LOCKING F COMB.</p> <p>(C)</p> <p>LOCKING M COMB.</p> <p>4R, 12R</p>	<p>Red</p> <p>F M A A A A</p> <p>Indicating Buttons</p>

* For all codes, button and handle color is: 1 - Red,
2 - White, 3 - Black unless otherwise indicated.
4R - Standard sequence requirement does not apply.
12R - Standard nonclick requirement does not apply.

(C) - Cushion springs to reduce noise.
(cd) - Button and handle color is: 1 - Red with black
character, 2 - White with black character,
3 - Black with white character, except as noted.

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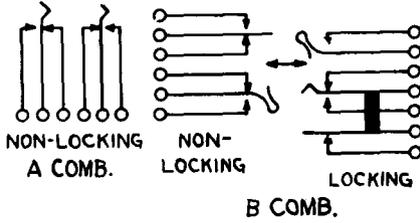
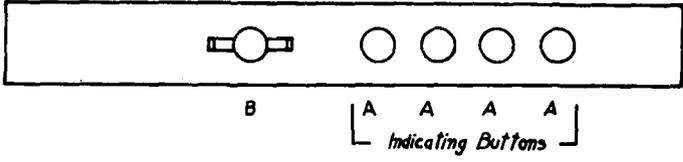
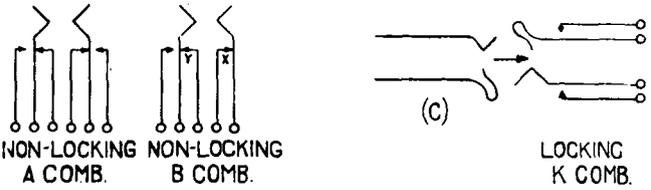
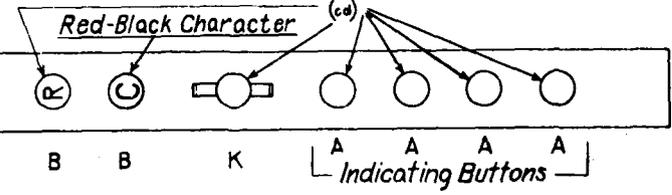
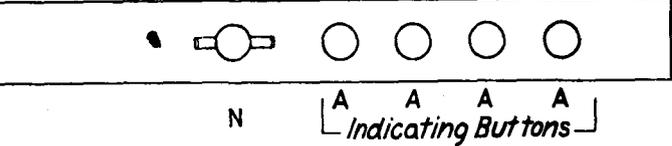
A9 Keys (Contd.)

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
34	A9R1 A9R2 A9R3	 <p>NON LOCKING A COMB NON-LOCKING B COMB LOCKING</p>	 <p>B A A A A Indicating Buttons</p>
36	A9N1 A9N2 A9N3	 <p>NON-LOCKING A COMB (bh) NON-LOCKING B COMB LOCKING NON-LOCKING C COMB.</p>	 <p>B(f) C(f) C(f) A(f) A(f) Indicating Buttons</p>
36	A9AA1 A9AA2 A9AA3	 <p>NON LOCKING A COMB. LOCKING R COMB.</p>	 <p>R A A A A Indicating Buttons</p>

* For all codes, button and handle color is: 1 - Red, 2 - White, 3 - Black unless otherwise indicated.

(f) - Heavy contacts.

(bh) - Contact A shall make before associated contact B makes.

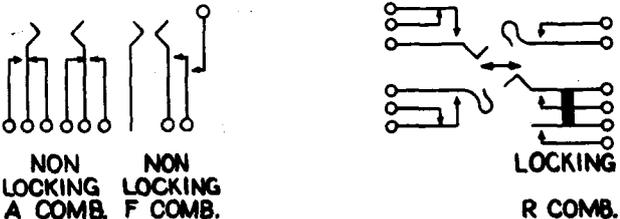
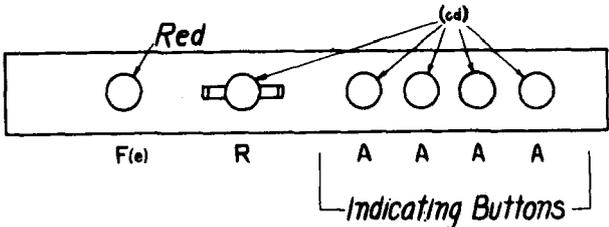
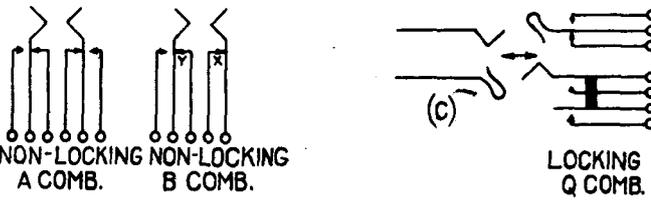
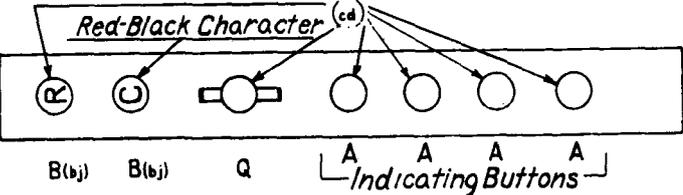
CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
37	A9AC1 A9AC2 A9AC3	 <p>NON-LOCKING A COMB.</p> <p>NON-LOCKING B COMB.</p> <p>LOCKING B COMB.</p> <p>2B, 8B, 91B</p>	 <p>B</p> <p>A A A A Indicating Buttons</p>
38	A9A1 A9A2 A9A3	 <p>NON-LOCKING A COMB.</p> <p>NON-LOCKING B COMB.</p> <p>LOCKING K COMB.</p> <p>2D</p> <p>2D</p> <p>4R, 12R</p>	 <p>Red-Black Character (cd)</p> <p>B B K</p> <p>A A A A Indicating Buttons</p>
38	A9E1 A9E2 A9E3	 <p>NON LOCKING A COMB.</p> <p>LOCKING N COMB.</p>	 <p>N</p> <p>A A A A Indicating Buttons</p>

* For all codes, button and handle color is: 1 - Red, 2 - White, 3 - Black unless otherwise indicated.
 4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 2B - Closed contacts in each set of break-before-make contacts shall break before its associate open contacts make.
 8B - Standard sequence requirement need apply only to contacts of nonlocking combination.

91B - Exception 2B shall apply to the locking combinations.
 2D - Normally closed contacts X shall break before normally closed contacts Y break.
 (C) - Cushion springs to reduce noise.
 (cd) - Button and handle color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character, except as noted.

April 1961

A9 Keys (Contd.)

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
39	A9W1 A9W2 A9W3	 <p>NON LOCKING A COMB. NON LOCKING F COMB.</p> <p>LOCKING R COMB.</p> <p>4R</p>	 <p>Red</p> <p>F(e) R A A A A</p> <p>Indicating Buttons</p>
41	A9H1 A9H2 A9H3	 <p>NON-LOCKING A COMB. NON-LOCKING B COMB.</p> <p>2D 2D</p> <p>LOCKING Q COMB.</p> <p>12R</p>	 <p>Red-Black Character (cd)</p> <p>B(bj) B(bj) Q A A A A</p> <p>Indicating Buttons</p>

* For all codes, button and handle color is: 1 - Red, 2 - White, 3 - Black unless otherwise indicated.
 4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 2D - Normally closed contacts X shall break before normally closed contacts Y break.
 (e) - Heavy No. 2 metal contacts.

(C) - Cushion springs to reduce noise.
 (bj) - Combination B has No. 2 metal contacts. Normally open contact of coin collect combination has heavy No. 2 metal contacts.
 (cd) - Button and handle color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character, except as noted.

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
43	A9K1 A9K2 A9K3	<p>NON-LOCKING A COMB. 2A, 2D NON-LOCKING B COMB. 2A, 2D NON-LOCKING E COMB. 2A, 2D LOCKING L COMB. 4R, 12R</p>	<p>Red-Black Character (cd) B(bl) E(bl) L A A A A Indicating Buttons</p>
44	A9G1 A9G2 A9G3	<p>NON-LOCKING A COMB. 2A, 2D LOCKING P COMB. 4R, 12R</p>	<p>A P A A A A Indicating Buttons</p>
44	A9T1 A9T2 A9T3	<p>NON-LOCKING A COMB. 2D NON-LOCKING B COMB. 2D NON-LOCKING S COMB. 12R LOCKING</p>	<p>Red-Black Character (cd) B(bl) B(bl) S A A A A Indicating Buttons</p>

* For all codes, button and handle color is: 1 - Red, 2 - White, 3 - Black unless otherwise indicated.
 4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 2A - Standard sequence requirement need not apply to W contacts.
 2D - Normally closed contacts X shall break before normally closed contacts Y break.

(C) - Cushion springs to reduce noise.
 (bk) - Combination B and E have No. 2 metal contacts; local contacts of E combination are heavy No. 2 metal.
 (bl) - Combination B has No. 2 metal contacts, except contact 1 (heavy No. 2 metal).
 (cd) - Button and handle color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character, except as noted.

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A9 Keys (Contd.)

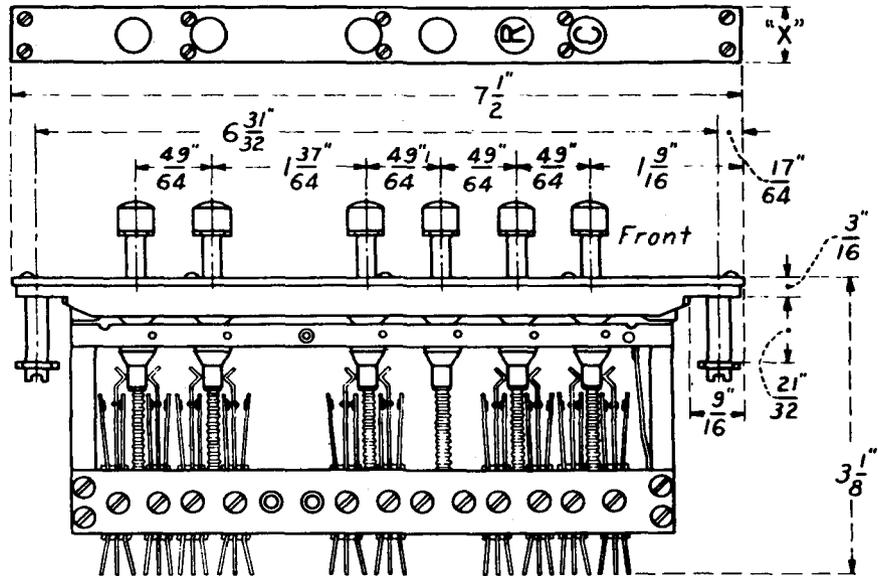
CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
46	A9M1 A9M2 A9M3	<p>NON-LOCKING A COMB NON-LOCKING B COMB LOCKING R COMB.</p> <p>2D 2D 4R, 12R, 37B</p>	<p>Red-Black Characters (cd)</p> <p>B(d) B(bj,d) R A A A A</p> <p>Indicating Buttons</p>
48	A9P1 A9P2 A9P3	<p>NON-LOCKING C COMB NON-LOCKING B COMB LOCKING A COMB NON-LOCKING D COMB.</p> <p>2D (bh)</p>	<p>Red-Black Character (cd)</p> <p>C(d) C(d) B(f) D(f) D(f) A(f) A(f)</p> <p>Indicating Buttons</p>
49	A9Y1 A9Y2 A9Y3	<p>NON LOCKING A COMB. NON LOCKING G COMB. NON LOCKING E COMB. LOCKING R COMB.</p> <p>2A, 2D 2A, 2D 2A, 2D 4R</p>	<p>Red-Black Character (cd)</p> <p>G(bm) E(bm) R A A A A</p> <p>Indicating Buttons</p>

* For all codes, button and handle color is: 1 - Red
 2 - White, 3 - Black unless otherwise indicated.
 4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 2A - Standard sequence requirement need not apply to W contacts.
 37B - X contacts shall make before their associate W contacts break.
 2D - Normally closed contacts X shall break before normally closed contacts Y break.

(d) - Has No. 2 contacts.
 (f) - Heavy contacts.
 (bh) - Contact A shall make before associated contact B makes.
 (bj) - Combination B has No. 2 metal contacts. Normally open contact of coin collect combination has heavy No. 2 metal contacts.
 (bm) - Combinations E and G have No. 2 metal contacts, except contacts 1, 2, 3, and 4 (heavy No. 2 metal).
 (cd) - Button and handle color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character, except as noted.



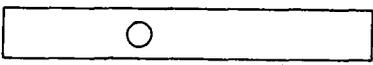
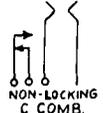
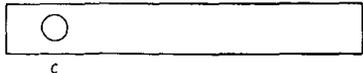
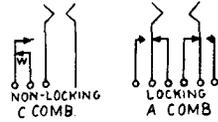
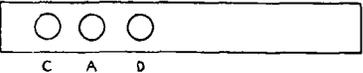
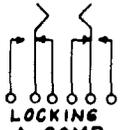
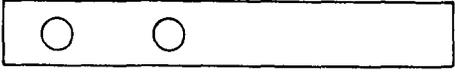
A10-TYPE KEYS



A10A1 Also General Design and Dimensions of A10 Type

These keys are equipped with one or more push buttons as indicated under individual code numbers. Locking push buttons lock in a fully depressed condition, and are released by the operation of any other locking push button. The A10-type keys are similar to the All-type keys but the spacing of the push button units is different.

X-75506

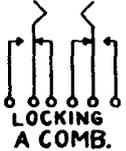
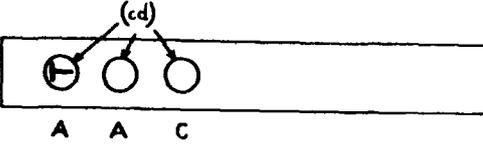
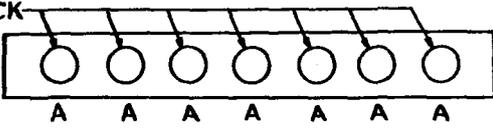
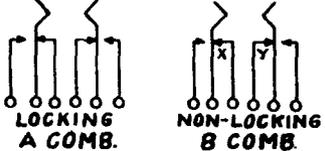
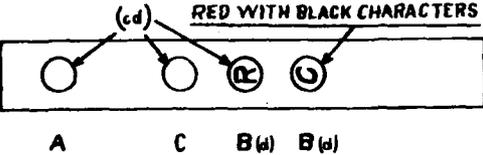
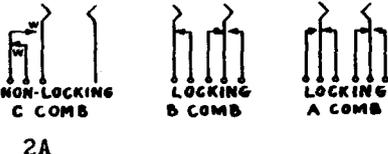
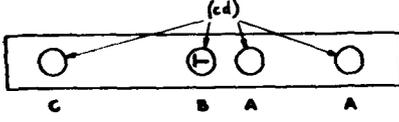
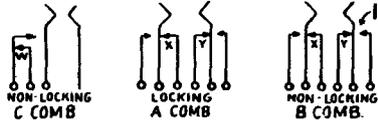
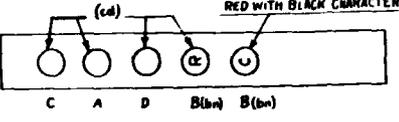
CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
3	A10Y1 A10Y2 A10Y3	 <p>NON-LOCKING</p>	
3	A10AH1 A10AH2 A10AH3	 <p>NON-LOCKING C COMB.</p>	 <p>C</p>
9	A10AF1 A10AF2 A10AF3	 <p>NON-LOCKING C COMB.</p> <p>LOCKING A COMB.</p> <p>2A</p> <p>HAS NO CONTACT SPRINGS LOCKING D COMB.</p>	 <p>C A D</p>
12	A10F1 A10F2 A10F3	 <p>LOCKING A COMB.</p>	 <p>A A</p>

* Button color is: 1 - Red, 2 - White, 3 - Black, unless otherwise indicated.

2A - Standard sequence requirement need not apply to W contacts.

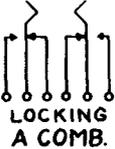
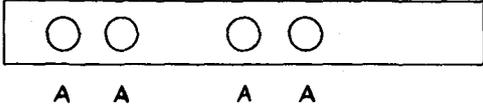
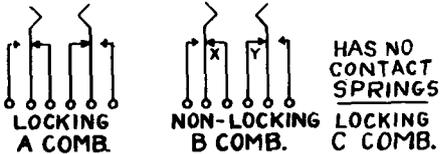
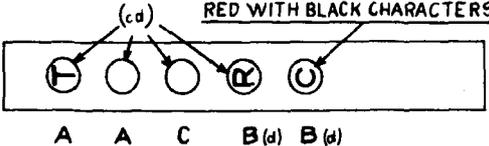
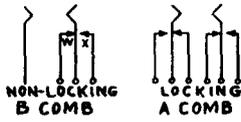
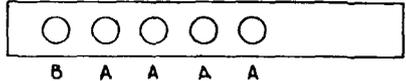
Dec 1955

A10 Keys (Contd.) - 9/16" wide

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
12	A1OH1 A1OH2 A1OH3	 <p>LOCKING A COMB.</p> <p>HAS NO CONTACT SPRINGS LOCKING C COMB.</p>	 <p>(cd)</p> <p>A A C</p>
14	A1OAJ	 <p>LOCKING A COMB.</p>	 <p>BLACK</p> <p>A A A A A A A</p>
18	A1OD1 A1OD2 A1OD3	 <p>LOCKING A COMB.</p> <p>NON-LOCKING B COMB.</p> <p>HAS NO CONTACT SPRINGS LOCKING C COMB.</p> <p>2D</p>	 <p>(cd)</p> <p>RED WITH BLACK CHARACTERS</p> <p>A C B(d) B(d)</p>
20	A1OW1 A1OW2 A1OW3	 <p>NON-LOCKING C COMB</p> <p>LOCKING B COMB</p> <p>LOCKING A COMB</p> <p>2A</p>	 <p>(cd)</p> <p>C B A A</p>
21	A1OAG1 A1OAG2 A1OAG3	 <p>NON-LOCKING C COMB</p> <p>LOCKING A COMB</p> <p>NON-LOCKING B COMB.</p> <p>HAS NO CONTACT SPRINGS LOCKING D COMB</p> <p>2A 2D 2D</p>	 <p>(cd)</p> <p>RED WITH BLACK CHARACTER</p> <p>C A D B(bn) B(bn)</p>

2A - Standard sequence requirement need not apply to W contacts.
 2D - Normally closed contacts X shall break before normally closed contacts Y break.
 (d) - No. 2 metal contacts.

(bn) - Contacts of "Collect" and "Return" buttons are No. 2 metal. "Collect" make contacts on right of schematic are heavy No. 2 metal.
 (cd) - Button color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character, except as noted.

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
22	A1ON1 A1ON2 A1ON3	 <p>NON-LOCKING B COMB LOCKING A COMB HAS NO CONTACT SPRINGS LOCKING D COMB</p> <p>2A</p>	 <p>B A A A D</p>
24	A1OC1 A1OC2 A1OC3	 <p>LOCKING A COMB.</p>	 <p>A A A A</p>
24	A1OG1 A1OG2 A1OG3	 <p>LOCKING A COMB. NON-LOCKING B COMB. LOCKING C COMB.</p> <p>2D</p>	 <p>(cd) RED WITH BLACK CHARACTERS</p> <p>A A C B(d) B(d)</p>
27	A1OR1 A1OR2 A1OR3	 <p>NON-LOCKING B COMB LOCKING A COMB</p> <p>2B</p>	 <p>B A A A A</p>

* Button color is: 1 - Red, 2 - White, 3 - Black, unless otherwise indicated.

2A - Standard sequence requirement need not apply to W contacts.

2B - Contacts X shall make before contacts W break.

2D - Normally closed contacts X shall break before normally closed contacts Y break.

(d) - No. 2 metal contacts.

(cd) - Button color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character, except as noted.

Oct 1957

A10 Keys (Contd.) - 9/16" wide

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
27	A1OT1 A1OT2 A1OT2	<p>NON-LOCKING C COMB LOCKING B COMB LOCKING A COMB</p> <p>HAS NO CONTACT SPRINGS LOCKING D COMB</p> <p>2A</p>	<p>(cd)</p> <p>C B A A A D</p>
30	A1OA1 A1OA2 A1OA3	<p>LOCKING A COMB. NON-LOCKING B COMB. LOCKING C COMB</p> <p>HAS NO CONTACT SPRINGS LOCKING C COMB</p> <p>2D</p>	<p>(cd) RED WITH BLACK CHARACTERS</p> <p>A A A C B(d) B(d)</p>
34	A1OM1 A1OM2 A1OM3	<p>NON-LOCKING C COMB NON-LOCKING B COMB LOCKING A COMB</p> <p>HAS NO CONTACT SPRINGS LOCKING D COMB</p> <p>2D 2A</p>	<p>RED WITH BLACK CHARACTERS (cd)</p> <p>C(bn) C(bn) B A A A D</p>
35	A1OS1 A1OS2 A1OS3	<p>NON-LOCKING C COMB LOCKING B COMB LOCKING A COMB</p> <p>HAS NO CONTACT SPRINGS LOCKING D COMB</p> <p>2D</p>	<p>RED WITH BLACK CHARACTER (cd)</p> <p>C(bn) C(bn) B A A A D</p>

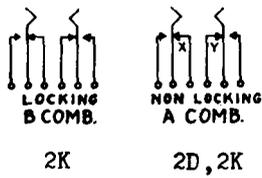
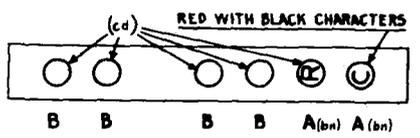
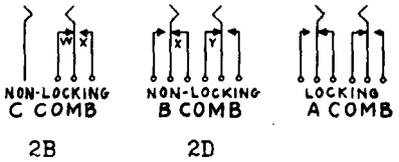
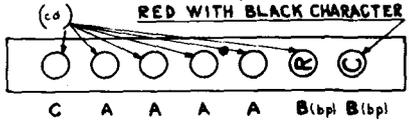
2A - Standard sequence requirement need not apply to W contacts.

2D - Normally closed contacts X shall break before normally closed contacts Y break.

(d) - No. 2 metal contacts.

(bn) - Contacts of "Collect" and "Return" buttons are No. 2 metal. "Collect" make contacts on right of schematic are heavy No. 2 metal.

(cd) - Button color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character, except as noted.

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
36	A1OK1 A1OK2 A1OK3		
39	A1OP1 A1OP2 A1OP3		

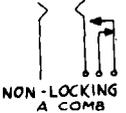
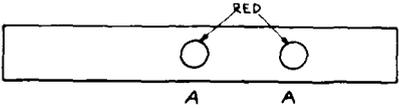
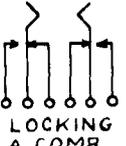
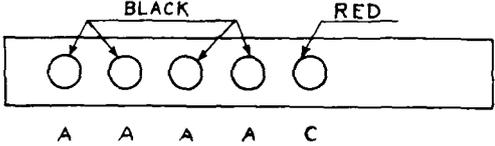
- 2B - Contacts X shall make before contacts W break.
 2D - Normally closed contacts X shall break before normally closed contacts Y break.
 2K - All normally closed contacts in each pile-up shall break before the normally open contacts in the same pile-up make.

- (bn) - Contacts of "Collect" and "return" buttons are No. 2 metal. "Collect" make contacts on right of schematic are heavy No. 2 metal.
 (bp) - Contacts of "Collect" and "Return" buttons are No. 2 metal. "Return" make contacts on left side of schematic are heavy No. 2 metal.
 (cd) - Button color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character, except as noted.

Jan 1954

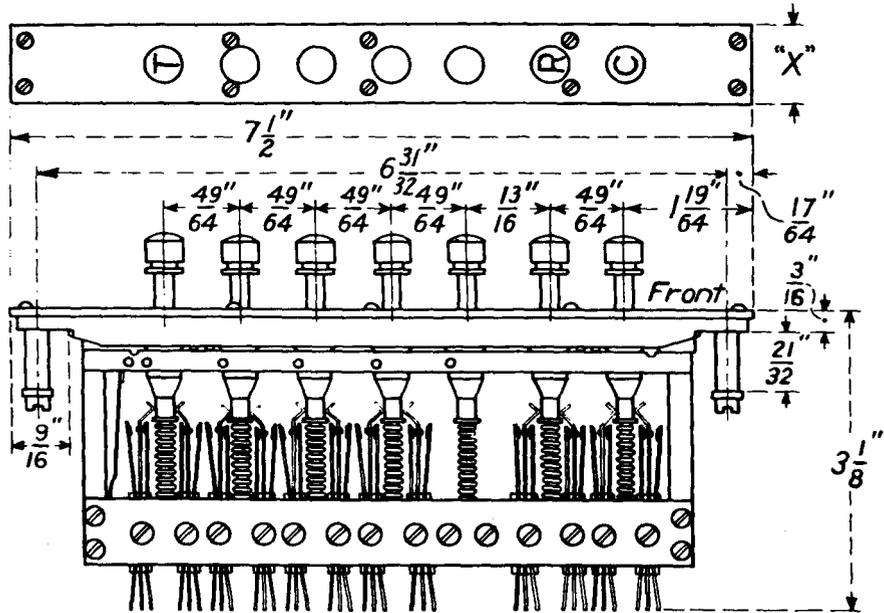
A10 Keys (Contd.) - 27/32" wide

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CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
6	A10AA	 <p>NON-LOCKING A COMB</p>	
24	A10J	 <p>LOCKING A COMB</p> <p>HAS NO CONTACT SPRINGS LOCKING C COMB.</p>	



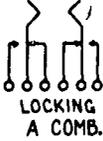
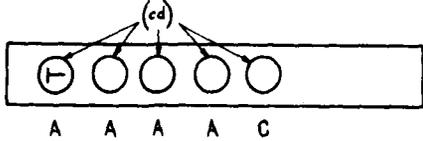
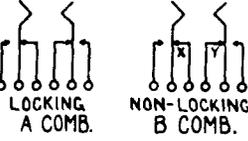
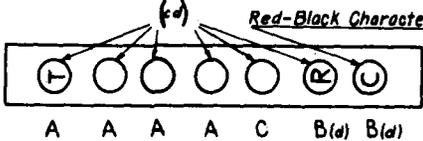
ALL-TYPE KEYS



All-1 Also General Design and Dimensions of All Type

These keys are equipped with one or more push buttons as indicated under individual code numbers. Locking push buttons lock in a fully depressed condition, and are released by the operation of any other locking push button. The All-type keys are similar to the A10-type keys but the spacing of the push button units is different.

X-75506

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
24	A11B1 A11B2 A11B3	 <p>LOCKING A COMB.</p> <p><i>Not equipped with contact springs</i></p> <p>LOCKING C COMB.</p>	 <p>(cd)</p> <p>A A A A C</p>
36	A11A1 A11A2 A11A3	 <p>LOCKING A COMB.</p> <p>NON-LOCKING B COMB.</p> <p><i>Not equipped with contact springs</i></p> <p>LOCKING C COMB.</p> <p>2D</p>	 <p>(cd)</p> <p><u>Red-Black Characters</u></p> <p>A A A A C B(d) B(d)</p>

2D - Normally closed X contacts shall break before normally closed Y contacts break.
 (d) - No. 2 metal contacts.

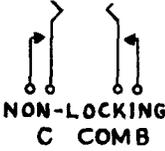
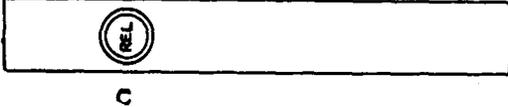
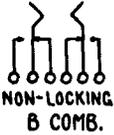
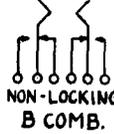
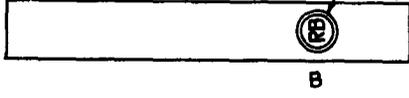
(cd) - Button and handle color is:
 1 - Red with black character,
 2 - White with black character,
 3 - Black with white character except as noted.

X-75506

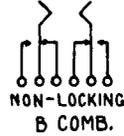
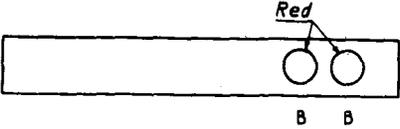
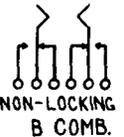
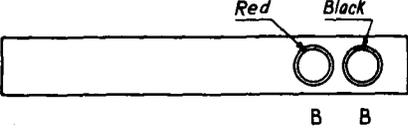
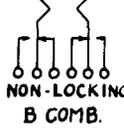
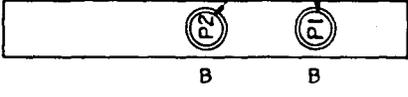
Oct 1957

All Keys (Contd.) - 27/32" rld

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CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
4	A11AF (br)	 <p>NON-LOCKING C COMB</p>	<p><i>White characters Black background</i></p>  <p>C</p>
6	A11S (br)	 <p>NON-LOCKING B COMB.</p>	<p><i>White characters-black background</i></p>  <p>B</p>
6	A11W (br)	 <p>NON-LOCKING B COMB.</p>	<p><i>Black characters-red background</i></p>  <p>B</p>

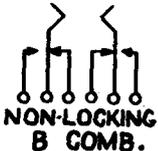
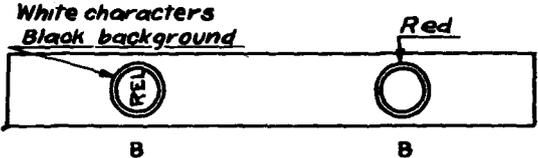
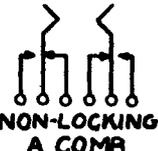
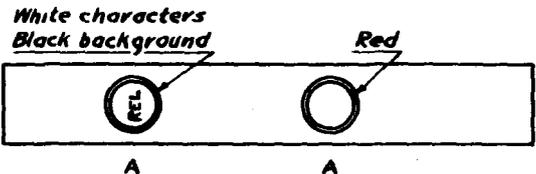
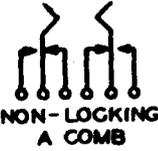
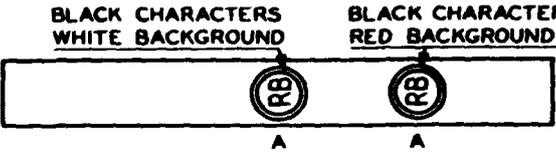
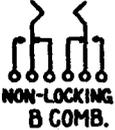
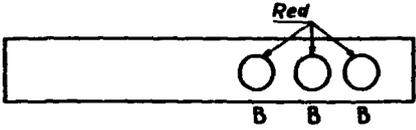
(br) - Has molded metal frame buttons.

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
12	A11C (br)	 <p>NON-LOCKING B COMB.</p>	
12	A11M (br)	 <p>NON-LOCKING B COMB.</p>	
12	A11U (br)	 <p>NON-LOCKING B COMB.</p>	<p><i>Black characters-white background Black characters red background</i></p> 

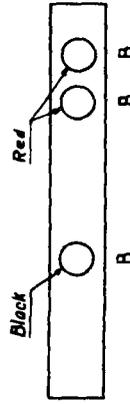
(br) - Has molded metal frame buttons.

Jan 1954

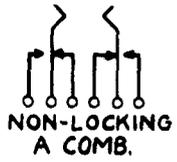
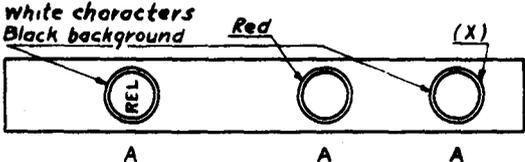
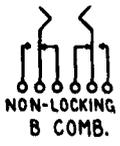
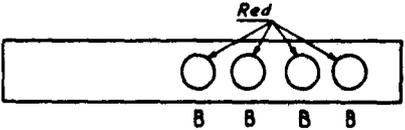
All Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
12	A11AB (br)	 <p>NON-LOCKING B COMB.</p>	 <p>White characters Black background</p> <p>Red</p> <p>B B</p>
12	A11AL (br)	 <p>NON-LOCKING A COMB.</p>	 <p>White characters Black background</p> <p>Red</p> <p>A A</p>
12	A11AP (br)	 <p>NON-LOCKING A COMB.</p>	 <p>BLACK CHARACTERS WHITE BACKGROUND</p> <p>BLACK CHARACTERS RED BACKGROUND</p> <p>A A</p>
18	A11D	 <p>NON-LOCKING B COMB.</p>	 <p>Red</p> <p>B B B</p>

(br) - Has molded metal frame buttons.

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
18	A11G	 <p>NON-LOCKING B COMB.</p>	

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CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
18	A11AK (br)	 <p>NON-LOCKING A COMB.</p>	 <p>White characters Black background</p> <p>Red</p> <p>(X)</p> <p>A A A</p>
24	A11E	 <p>NON-LOCKING B COMB.</p>	 <p>Red</p> <p>B B B B</p>

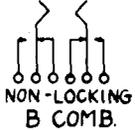
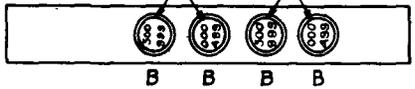
(X) - Engraved as specified.

(br) - Has molded metal frame buttons.

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All Keys (Contd.) - 27/32" wide

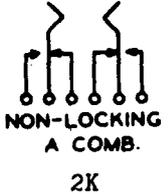
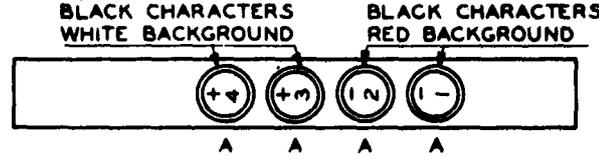
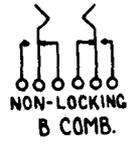
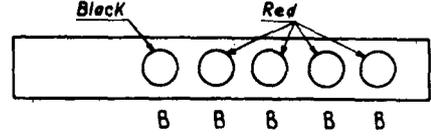
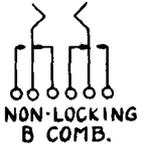
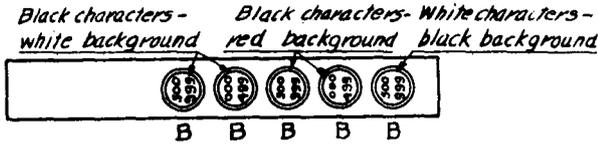
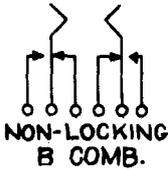
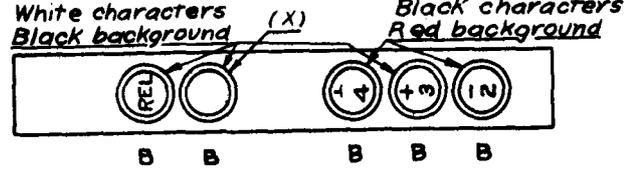
149

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
24	AllT (br)	 <p>NON-LOCKING B COMB.</p>	<p><i>Black characters-white background Black characters-red background</i></p>  <p>B B B B</p>

(br) - Has molded metal frame buttons.

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All Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
24	A11AN (br)	 <p>NON-LOCKING A COMB. 2K</p>	 <p>BLACK CHARACTERS WHITE BACKGROUND BLACK CHARACTERS RED BACKGROUND</p> <p>A A A A</p>
30	A11J	 <p>NON-LOCKING B COMB.</p>	 <p>Black Red</p> <p>B B B B B</p>
30	A11Y (br)	 <p>NON-LOCKING B COMB.</p>	 <p>Black characters - white background Black characters - white characters - red background Black characters - white characters - black background</p> <p>B B B B B</p>
30	A11AE (br)	 <p>NON-LOCKING B COMB.</p>	 <p>White characters Black background (X) Black characters Red background</p> <p>B B B B B</p>

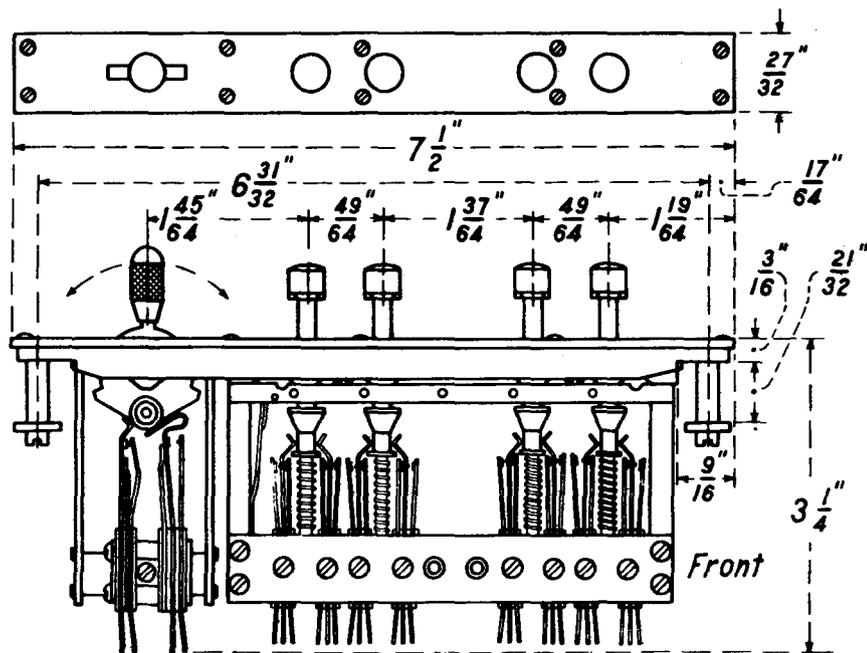
2K - All normally closed contacts in each pile-up shall break before normally open contacts in the same pile-up make.

(X) - Engraved as specified.
(br) - Has molded metal frame buttons.

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
42	ALLAS (br)	 <p>NON-LOCKING A COMB.</p>	 <p>BLACK CHARACTERS WHITE BACKGROUND BLACK CHARACTERS RED BACKGROUND WHITE CHARACTERS BLACK BACKGROUND</p> <p>A A A A A A A</p>

(br) - Has molded metal frame buttons.

A13-TYPE KEYS

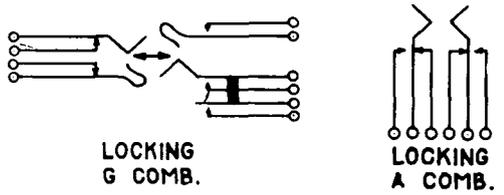
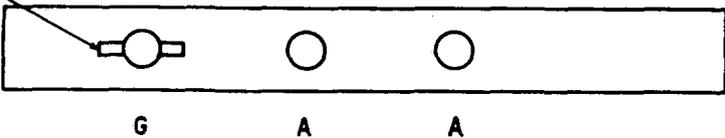
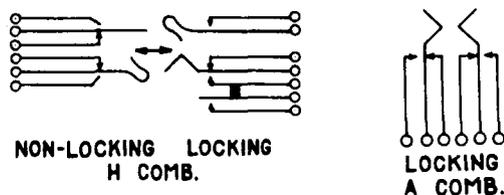
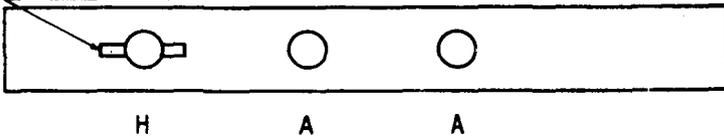
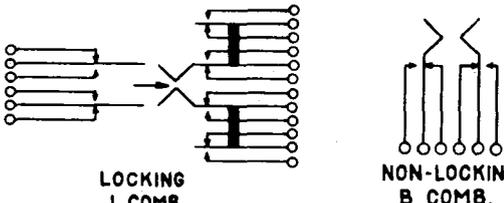
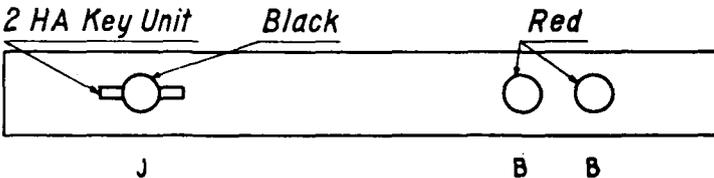


A13C1 Also General Design and Dimensions of A13 Type

These keys are equipped with one lever-type key unit, and a number of push buttons as indicated under individual code numbers.

Locking push buttons lock in a fully depressed position, and when locked are released by the operation of any other locking button.

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CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
22	A13D1 A13D2 A13D3	 <p>LOCKING G COMB.</p> <p>LOCKING A COMB.</p>	<p><i>2 MN Key Unit</i></p>  <p>G A A</p>
25	A13F1 A13F2 A13F3 (a)	 <p>NON-LOCKING LOCKING H COMB. A COMB.</p>	<p><i>2 L Key Unit</i></p>  <p>H A A</p>
30	A13J (dr)	 <p>LOCKING J COMB.</p> <p>NON-LOCKING B COMB.</p>	<p><i>2 HA Key Unit</i></p>  <p>J <i>Black</i> <i>Red</i> B B</p>

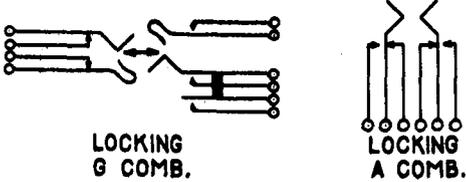
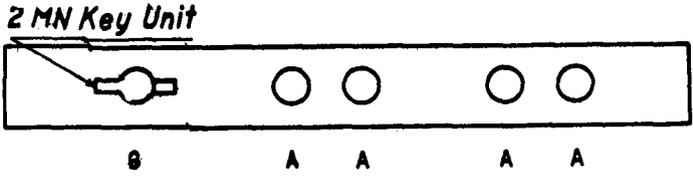
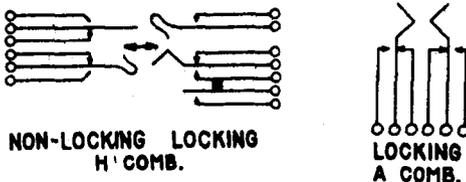
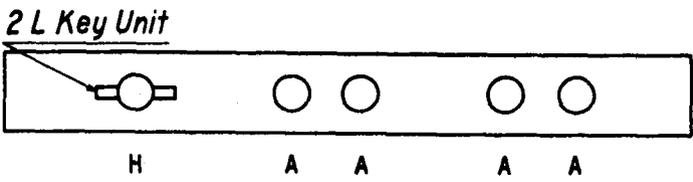
* For all codes button and handle color is:
1 - Red, 2 - White, 3 - Black, unless otherwise
indicated.

(a) - Contacts without arrowheads are arranged for ringing only.
(dr) - Certain operating springs follow lever (which oper-
ates in one direction only).

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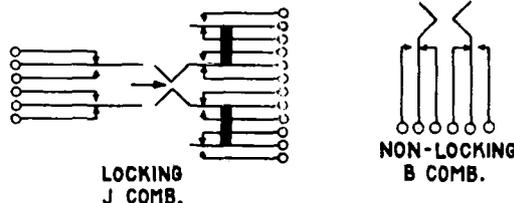
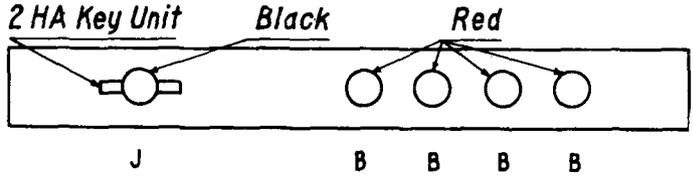
Oct 1957

Al3 Keys (Contd.)

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
34	A13C1 A13C2 A13C3	 <p>LOCKING G COMB.</p> <p>LOCKING A COMB.</p>	 <p><i>2 MN Key Unit</i></p> <p>G A A A A</p>
37	A13G1 A13G2 A13G3 (a)	 <p>NON-LOCKING LOCKING H COMB. A COMB.</p>	 <p><i>2 L Key Unit</i></p> <p>H A A A A</p>

* For all codes button and handle color is:
1 - Red, 2 - White, 3 - Black, unless otherwise indicated.

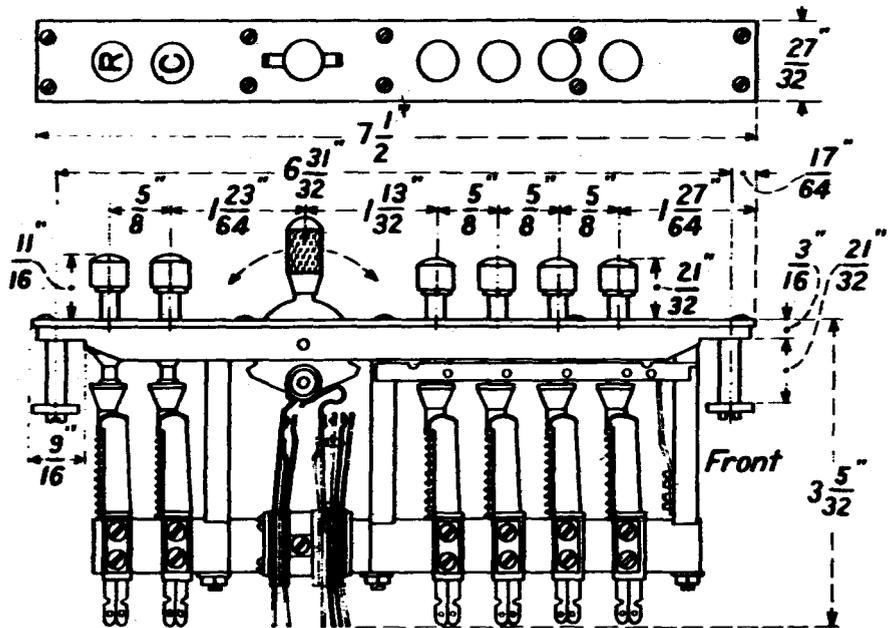
(a) - Contacts without arrowheads are arranged for ringing only.

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
42	A13L (dr)	 <p>LOCKING J COMB.</p> <p>NON-LOCKING B COMB.</p>	 <p>2 HA Key Unit</p> <p>Black</p> <p>Red</p> <p>J</p> <p>B B B B</p>

* For all codes button and handle color is: 1 - Red, 2 - White, 3 - Black, unless otherwise indicated.

(dr) - Certain operating springs follow lever (which operates in one direction only).

AL4-TYPE KEYS

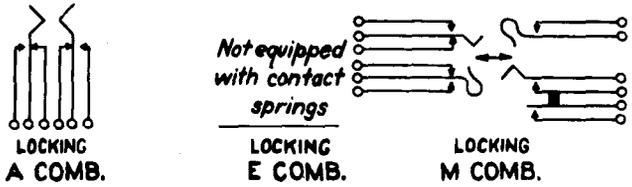
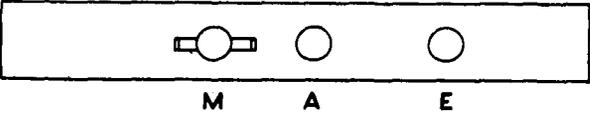
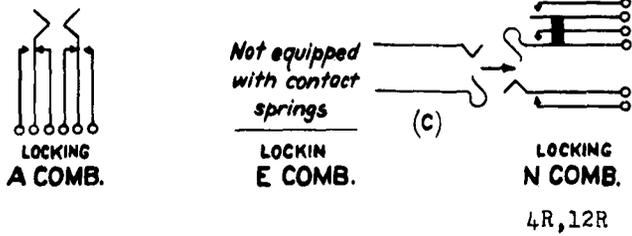
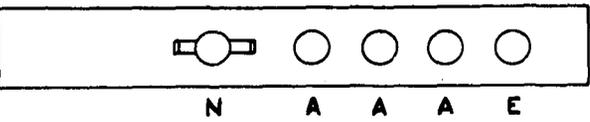
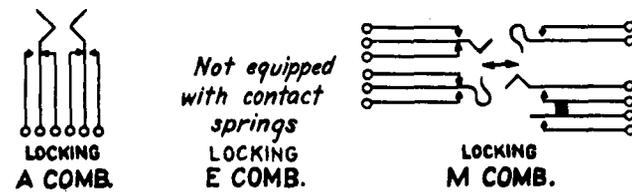
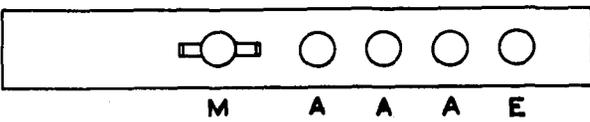
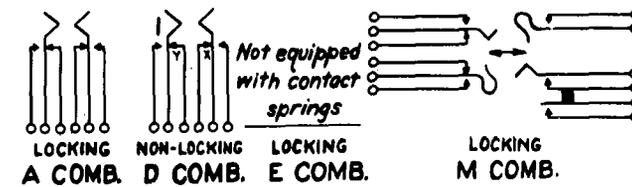
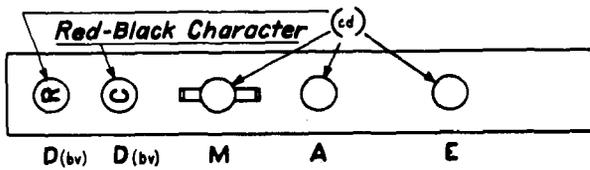


AL4A1 Also General Design and Dimensions of AL4 Type

These keys are equipped with one lever-type key unit and a number of push buttons as indicated under individual code numbers.

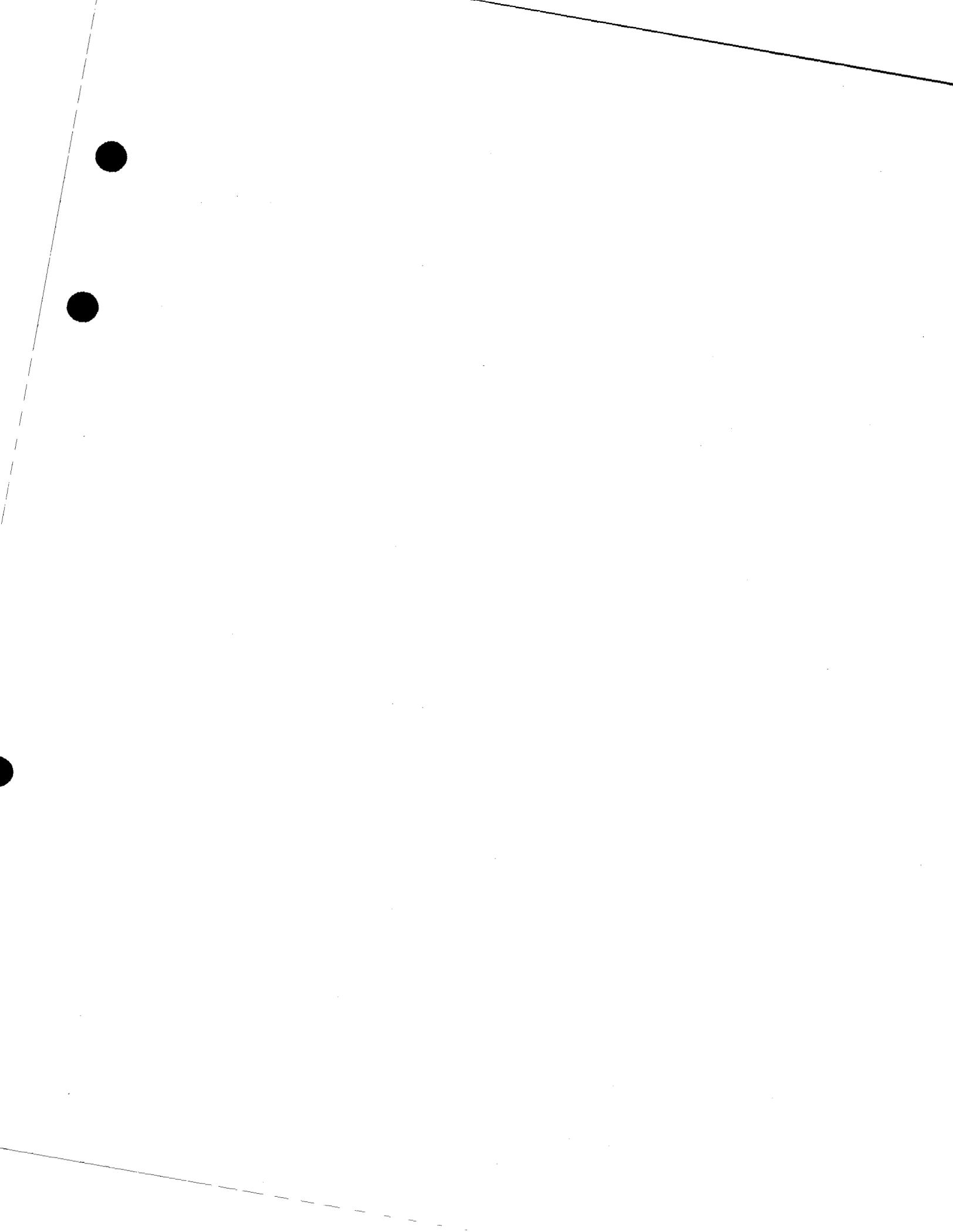
Locking push buttons lock in the fully depressed position and when locked are released by the operation of any other locking button.

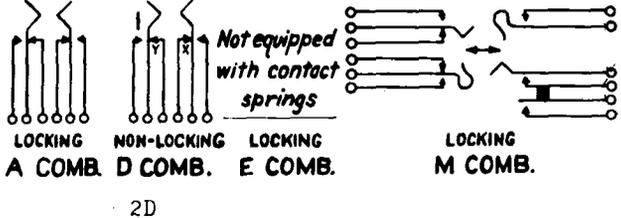
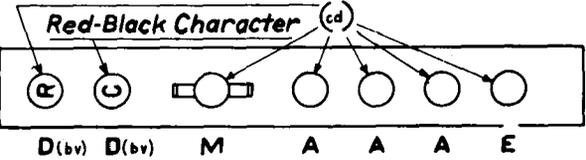
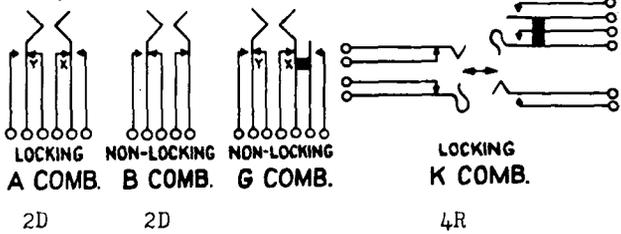
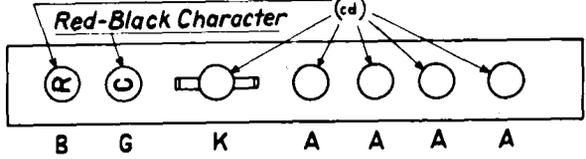
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CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
18	A14L1 A14L2 A14L3	 <p>LOCKING A COMB.</p> <p>Not equipped with contact springs</p> <p>LOCKING E COMB.</p> <p>LOCKING M COMB.</p>	 <p>M A E</p>
24	A14N1 A14N2 A14N3	 <p>LOCKING A COMB.</p> <p>Not equipped with contact springs</p> <p>LOCKIN E COMB.</p> <p>LOCKING N COMB.</p> <p>4R, 12R</p>	 <p>N A A A E</p>
30	A14J1 A14J2 A14J3	 <p>LOCKING A COMB.</p> <p>Not equipped with contact springs</p> <p>LOCKING E COMB.</p> <p>LOCKING M COMB.</p>	 <p>M A A A E</p>
30	A14M1 A14M2 A14M3	 <p>LOCKING A COMB.</p> <p>NON-LOCKING D COMB.</p> <p>LOCKING E COMB.</p> <p>LOCKING M COMB.</p> <p>2D</p>	 <p>Red-Black Character (cd)</p> <p>D(bv) D(bv) M A E</p>

* For all codes, button and handle color is:
 1 - Red, 2 - White, 3 - Black.
 4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 2D - Normally closed contacts X shall break before normally closed contacts Y break.

(C) - Cushion springs to reduce noise.
 (bv) - Contacts of D combination are No. 2 metal. Contact 1 of coin collect combination has heavy No. 2 metal contacts.
 (cd) - Button and handle color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character except as noted.



CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
42	A14K1 A14K2 A14K3	 <p>LOCKING A COMB. NON-LOCKING D COMB. LOCKING E COMB. LOCKING M COMB.</p> <p>Not equipped with contact springs</p> <p>2D</p>	 <p>Red-Black Character (cd)</p> <p>D(bv) D(bv) M A A A E</p>
46	A14A1 A14A2 A14A3 (bs)	 <p>LOCKING A COMB. NON-LOCKING B COMB. NON-LOCKING G COMB. LOCKING K COMB.</p> <p>2D 2D 4R</p>	 <p>Red-Black Character (cd)</p> <p>B G K A A A A</p>

* For all codes, button and handle color is:
1 - Red, 2 - White, 3 - Black.

4R - Standard sequence requirement does not apply.

2D - Normally closed contacts X shall break before normally closed contacts Y break.

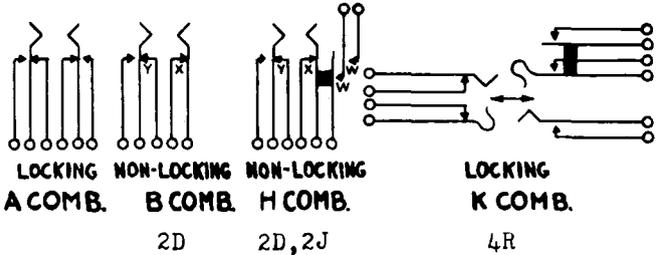
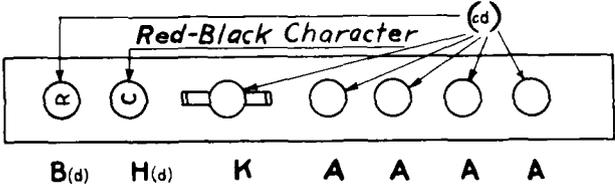
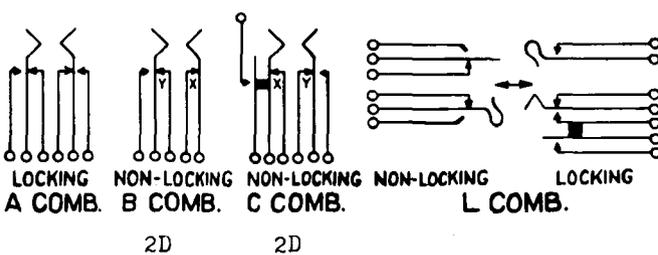
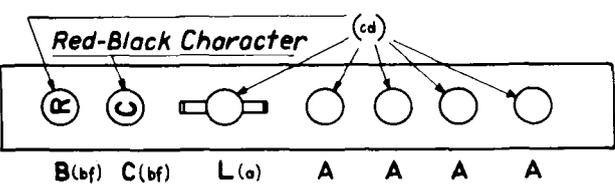
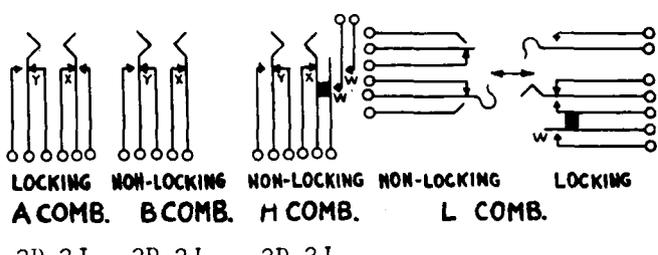
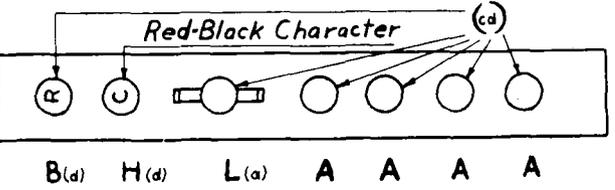
(bs) - Has No. 2 metal contacts, except local platinum-iridium contacts of G combination.

(bv) - Contacts of D combination are No. 2 metal. Contact 1 of coin collect combination has heavy No. 2 metal contacts.

(cd) - Button and handle color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character except as noted.

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A14 Keys (Contd.)

CONT. SPGS.	CODE*	SCHEMATIC	TOP VIEW
47	A14W1 A14W2 A14W3	 <p>LOCKING A COMB. NON-LOCKING B COMB. NON-LOCKING H COMB. LOCKING K COMB.</p> <p>2D 2D, 2J 4R</p>	 <p>Red-Black Character (cd)</p> <p>B(d) H(d) K A A A A</p>
49	A14D1 A14D2 A14D3	 <p>LOCKING A COMB. NON-LOCKING B COMB. NON-LOCKING C COMB. NON-LOCKING L COMB. LOCKING</p> <p>2D 2D</p>	 <p>Red-Black Character (cd)</p> <p>B(bf) C(bf) L(a) A A A A</p>
50	A14Y1 A14Y2 A14Y3	 <p>LOCKING A COMB. NON-LOCKING B COMB. NON-LOCKING H COMB. NON-LOCKING L COMB. LOCKING</p> <p>2D, 2J 2D, 2J 2D, 2J</p>	 <p>Red-Black Character (cd)</p> <p>B(d) H(d) L(a) A A A A</p>

* For all codes, button and handle color is:
1 - Red, 2 - White, 3 - Black.

4R - Standard sequence requirement does not apply.

2D - Normally closed contacts X shall break before normally closed contacts Y break.

2J - Standard sequence requirement need not apply between normally closed contacts and W contacts.

(a) - Contacts without arrowheads are arranged for ringing only.

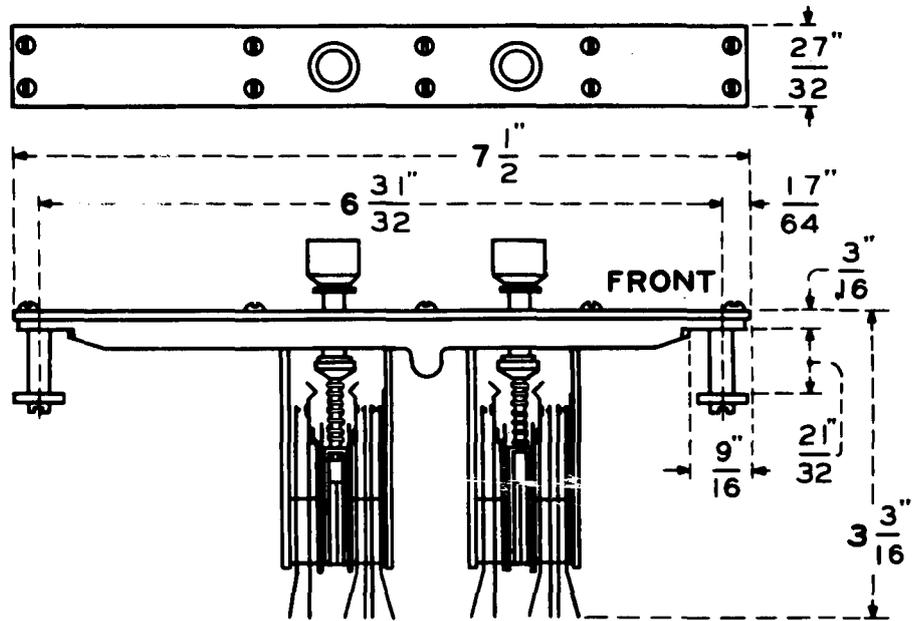
(d) - No. 2 metal contacts.

(bf) - Contacts of B combination are No. 2 metal. Inner contacts of C combination are No. 2 metal; make contact of break-make combination is heavy No. 2 metal; local contact is platinum-iridium.

(cd) - Button and handle color is: 1 - Red with black character, 2 - White with black character, 3 - Black with white character except as noted.



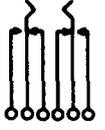
A17-TYPE KEYS



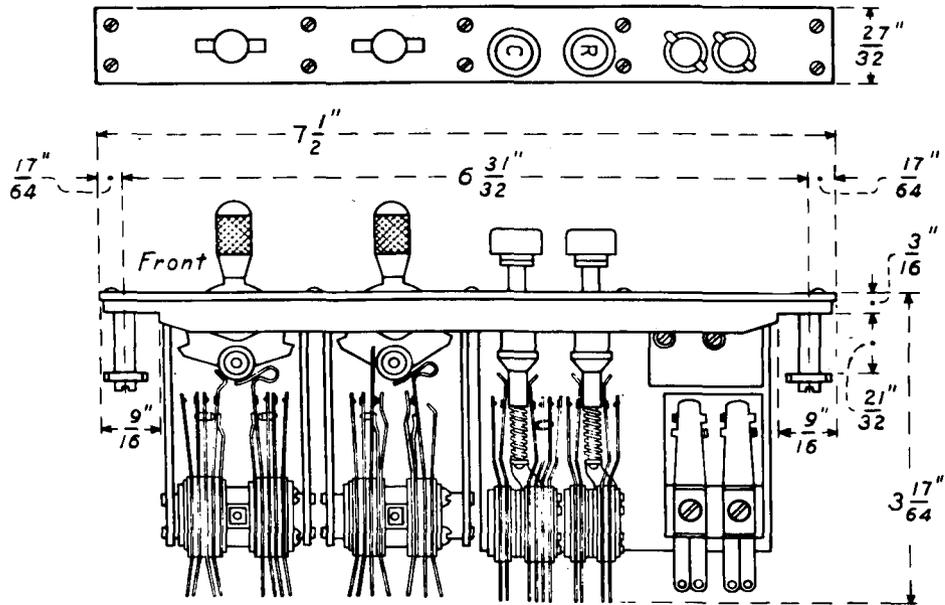
General Design and Dimensions of A17 Type

These keys are equipped with one or two nonlocking push buttons.

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CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW		
			REAR	MIDDLE	FRONT
6	A17B	 <p>NON LOCKING</p>			9F RED
12	A17C	 <p>NON-LOCKING</p>		8P RED	8P RED

A18-TYPE KEYS



A18K Also General Design and Dimensions of A18 Type

These keys are equipped with lever-type key units (two maximum), non-locking push buttons (two maximum), and lamp sockets for No. 2-type lamps (two maximum) as indicated under the individual codes. A No. 38G shield can be used with these keys. The following keys are equipped with a ticket clip at the front: A18AR, A18AS, A18AT, A18AU, A18BF, and A18BG.

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CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
6	A18AH	<p>LOCKING 4R,12R,1B (C)</p>				<p>BLACK KEY UNIT NO 2 ABK</p>
6	A18AK	<p>LOCKING 4R (C)</p>				<p>BLACK KEY UNIT NO 2 ACH</p>
8	A18AE	<p>LOCKING 4R,12R,1B (C)</p>				<p>BLACK KEY UNIT NO 2 ACF</p>

4R - Standard sequence requirement does not apply.
12R - Standard nonclick requirement does not apply.

1B - Closed contacts in each spring pile-up shall break before open contacts in the same spring pile-up make.
(C) - Cushion springs to reduce noise.

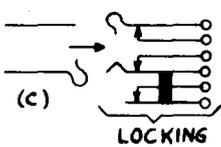
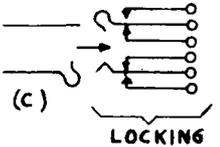
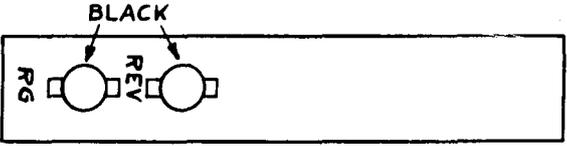
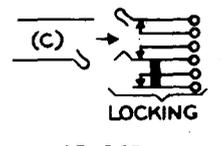
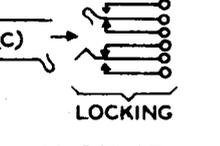
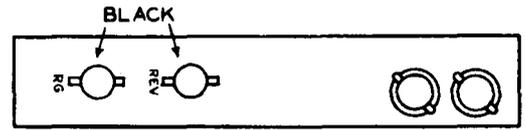
Jan 1954

A18 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
8	A18AY	<p>LOCKING 4R, 12R, 1B</p>				<p>BLACK KEY UNIT NO. 2 ACF</p>
8	A18BE	<p>NON-LOCKING 4R, 12R, 1B</p>				<p>BLACK KEY UNIT NO 2 ATA</p>
9	A18AP	<p>LOCKING 4R, 12R, 1B</p>				<p>BLACK KEY UNIT NO. 2 ACY</p>

4R - Standard sequence requirement does not apply.
12R - Standard nonclick requirement does not apply.

1B - Closed contacts in each spring pile-up shall break before open contacts in the same spring pile-up make.
(C) - Cushion springs to reduce noise.

CONT. SPCS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
12	A18AM	 <p>(c) LOCKING 4R,12R</p>	 <p>(c) LOCKING 4R,12R,1B</p>			 <p>BLACK R₂ R₂ KEY UNIT KEY UNIT NO. 2 AGJ NO. 2 ABK</p>
12	A18AW	 <p>(c) LOCKING 4R,12R</p>	 <p>(c) LOCKING 4R,12R,1B</p>			 <p>BLACK R₂ R₂ KEY UNIT KEY UNIT NO. 2 AGJ NO. 2 ABK</p>

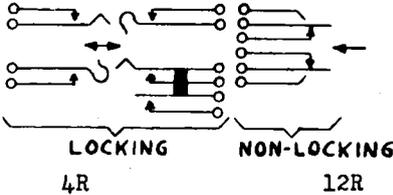
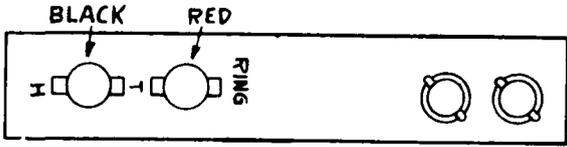
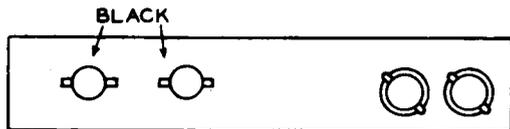
4R - Standard sequence requirement does not apply.
12R - Standard nonclick requirement does not apply.

1B - Closed contacts in each spring pile-up shall break before open contacts in the same spring pile-up make.
(C) - Cushion springs to reduce noise.

X-75506

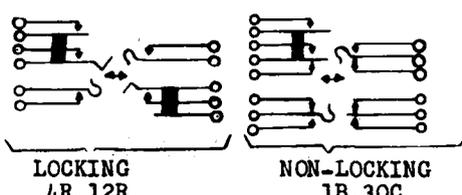
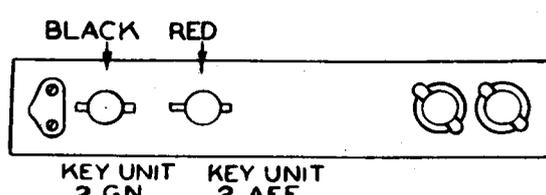
Oct 1957

A18 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
16	A18AN	 <p>LOCKING 4R</p> <p>NON-LOCKING 12R</p>				 <p>BLACK</p> <p>RED</p> <p>RING</p> <p>KEY UNIT NO. 2 BC</p> <p>KEY UNIT NO. 2 F (a)</p>
20	A18BA	 <p>LOCKING</p> <p>4R, 2B</p> <p>4R, 2B</p>				 <p>BLACK</p> <p>KEY UNIT NO. 2 BN</p> <p>KEY UNIT NO. 2 BN</p>

4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 2B - Closed contacts in each set of break-before-make contacts shall break before its associate open contacts make.

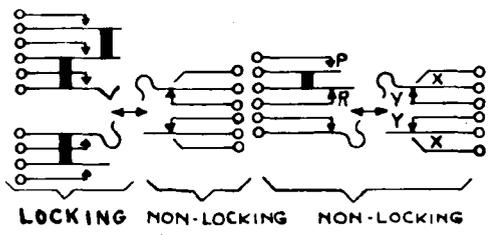
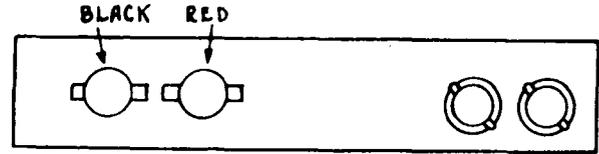
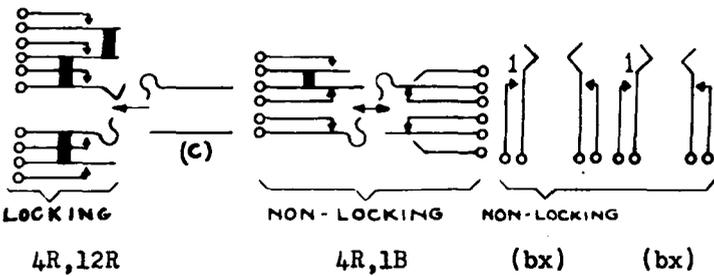
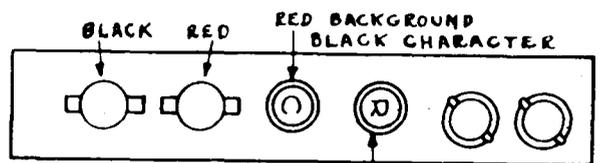
(a) - Contacts without arrowheads are for ringing only.
 (c) - Cushion springs to reduce noise.

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
26	A18BG (by)	 <p>LOCKING 4R, 12R</p> <p>NON-LOCKING 1B, 30C</p>				 <p>BLACK RED</p> <p>KEY UNIT 2 GN KEY UNIT 2 AFF</p>

- 4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same spring pile-up make.

- 30C - Standard nonclick requirement shall be met when lever is allowed to return to normal position with supplementary pull of 3 ozs. applied immediately below rubber handle when in extreme operating position by spring with a build-up of 1 oz. for each 1/4 inch of deflection or other means capable of giving equivalent results.

(by) - Has ticket clip at front.

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
28	A18AC	 <p>LOCKING NON-LOCKING NON-LOCKING (a) 4R, 12B, 16B</p>			 <p>KEY UNIT KEY UNIT NO. 2 HT NO. 2 LK</p>	
30	A18AD	 <p>LOCKING NON-LOCKING NON-LOCKING (c) 4R, 12R 4R, 1B (bx) (bx)</p>			 <p>KEY UNIT KEY UNIT NO. 2 ACC NO. 2 LK (a)</p> <p>RED BACKGROUND BLACK CHARACTER BLACK BACKGROUND WHITE CHARACTER</p>	

4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same spring pile-up make.
 12B - Closed R contact shall break before open P contact makes.

16B - Both normally closed Y contacts shall break before either of normally open X contacts make.
 (a) - Contacts without arrowheads are for ringing only.
 (C) - Cushion springs to reduce noise.
 (bx) - Push buttons have No. 2 metal contacts; contact 1 is heavy No. 2 metal.

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
32	A18N	<p>LOCKING (a)</p>	<p>NON-LOCKING</p>			<p>BLACK RED RED BACKGROUND BLACK CHARACTER KEY UNIT KEY UNIT 2 KA 2F (a) BLACK BACKGROUND WHITE CHARACTER</p>
32	A18AS (by)	<p>LOCKING</p>	<p>NON-LOCKING</p>			<p>BLACK RED KEY UNIT KEY UNIT NO. 2 AJS NO. 2 AFF</p>
34	A18AU (by)	<p>LOCKING</p>	<p>NON-LOCKING</p>			<p>BLACK RED KEY UNIT KEY UNIT NO. 2 ALG NO. 2 ALF</p>

4R - Standard sequence requirement does not apply.

12R - Standard nonclick requirement does not apply.

1B - Closed contacts in each spring pile-up shall break before open contacts in the same spring pile-up make.

2B - Closed contacts in each set of break-before-make contacts shall break before its associate open contacts make.

101B - Contact X shall make before contact W breaks.

102B - Standard sequence requirement need not apply to spring combination in position D.

24C - Standard nonclick requirement need not apply to contacts in position D except the W contact.

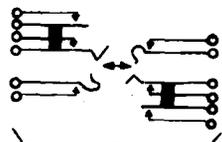
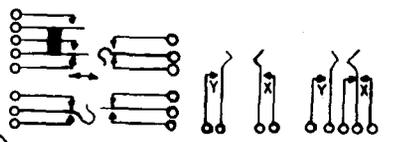
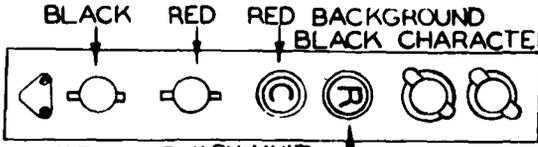
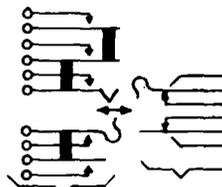
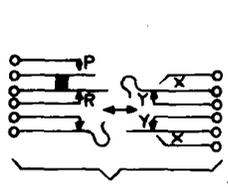
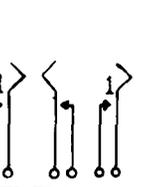
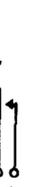
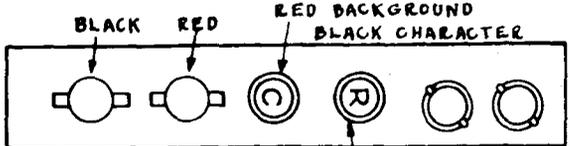
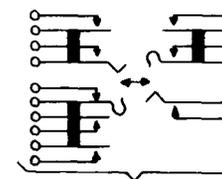
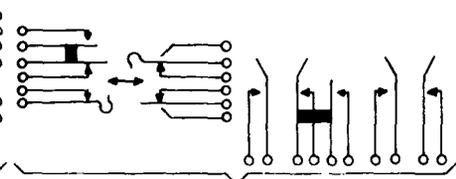
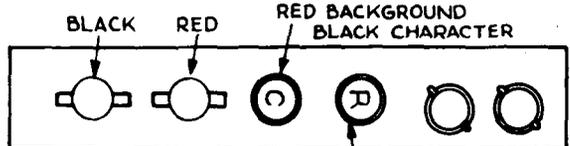
30C - Standard nonclick requirement shall be met when lever is allowed to return to normal position with supplementary pull of 3 ozs. applied immediately below rubber handle when in extreme operating position by spring with a build-up of 1 oz. for each 1/4 inch of deflection or other means capable of giving equivalent results.

(a) - Contacts without arrowheads are for ringing only.

(by) - Has ticket clip at front.

Jan 1954

A18 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
35	A18BF (by)					
		LOCKING 4R, 12R	NON-LOCKING 1B, 30C	(cp)	(cp)	KEY UNIT 2 GN KEY UNIT 2 AFF BLACK BACKGROUND BLACK CHARACTER WHITE CHARACTER
36	A18AJ					
		LOCKING 4R, 12B, 16B	NON-LOCKING	NON-LOCKING	NON-LOCKING	KEY UNIT NO. 2 HT(a) KEY UNIT NO. 2 LK(a) RED BACKGROUND BLACK CHARACTER BLACK BACKGROUND WHITE CHARACTER
38	A18K					
		LOCKING (a)	NON-LOCKING			KEY UNIT 2 KA KEY UNIT 2 LK(a) BLACK BACKGROUND WHITE CHARACTER

4R - Standard sequence requirement does not apply.

12R - Standard nonclick requirement does not apply.

1B - Closed contacts in each spring pile-up shall break before open contacts in the same spring pile-up make.

12B - Closed R contact shall break before open P contact makes.

16B - Both normally closed Y contacts shall break before either of normally open X contacts make.

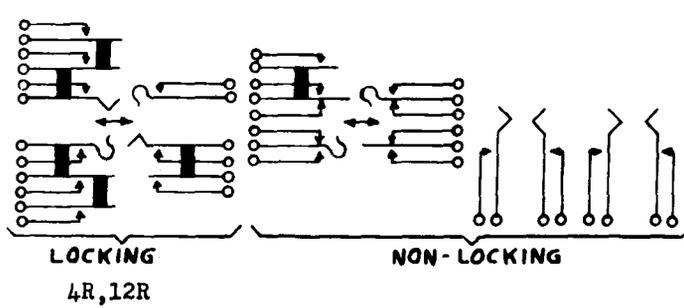
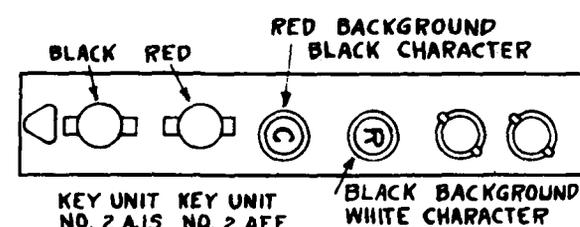
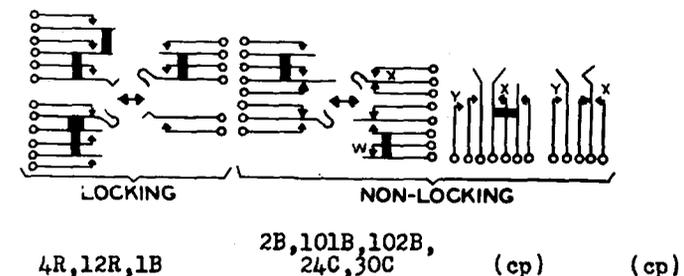
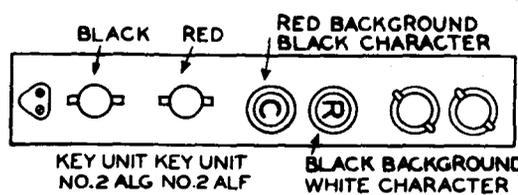
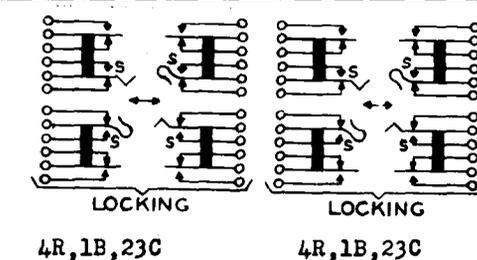
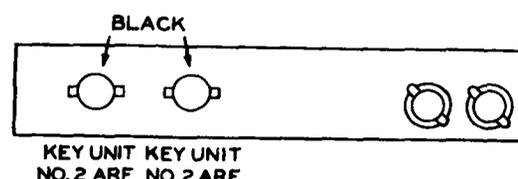
30C - Standard nonclick requirement shall be met when lever is allowed to return to normal position with supplementary pull of 3 ozs. applied immediately below rubber handle when in extreme operating position by spring with a build-up of 1 oz. for each 1/4 inch of deflection or other means capable of giving equivalent results.

(a) - Contacts without arrowheads are for ringing only.

(bx) - Push buttons have No. 2 metal contacts; contact 1 is heavy No. 2 metal.

(by) - Has ticket clip at front.

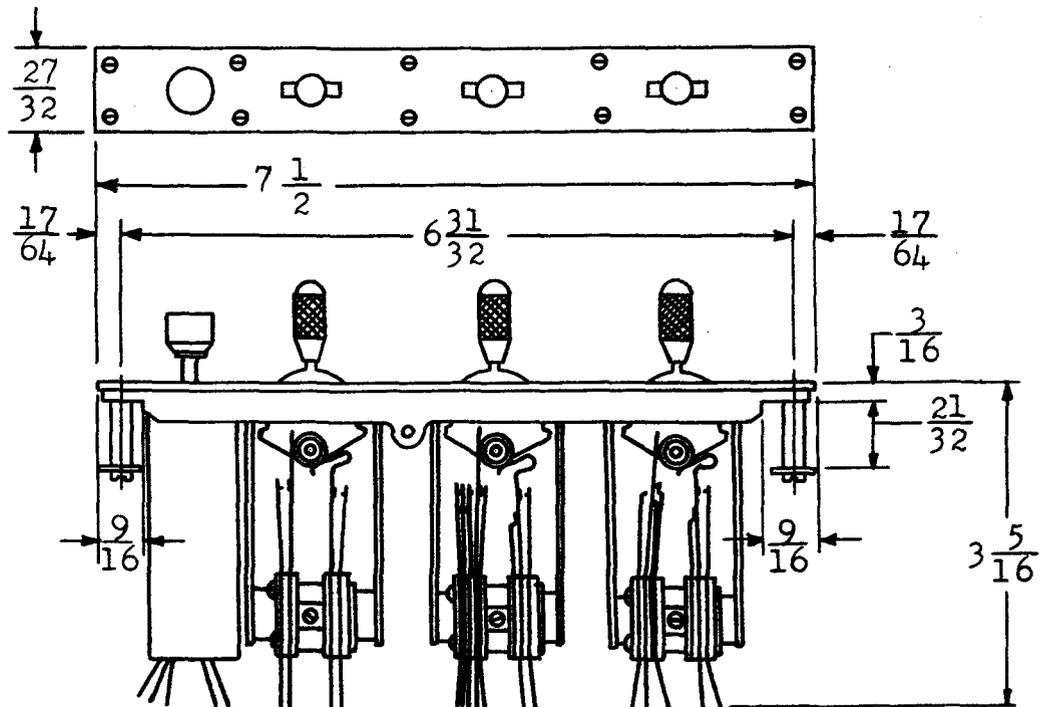
(cp) - Y contacts shall make before X contacts make.

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW
		FRONT	SECOND	THIRD	REAR	
40	A18AR (by)					
46	A18AT (by)					
48	A18BD					

- 4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same spring pile-up make.
 2B - Closed contacts in each set of break-before-make contacts shall break before its associate open contacts make.
 101B - Contact X shall make before contact W breaks.
 102B - Standard sequence requirement need not apply to spring combination in position D.

- 23C - Standard nonclick requirement need apply only to S contacts.
 24C - Standard nonclick requirement need not apply to contacts in position D except the W contact.
 30C - Standard nonclick requirement shall be met when lever is allowed to return to normal position with supplementary pull of 3 ozs. applied immediately below rubber handle when in extreme operating position by spring with a build-up of 1 oz. for each 1/4 inch of deflection or other means capable of giving equivalent results.
 (by) - Has ticket clip at front.
 (cp) - Y contacts shall make before X contacts make.

A20-TYPE KEYS



A20C Also General Design and Dimensions of
A20 Type

These keys are equipped with lever-type key units (three maximum), and nonlocking push button units (one maximum) as indicated under the individual code numbers

176B

CONT. SPGS.	CODE	SCHEMATIC				TOP VIEW			
		REAR	THIRD	SECOND	FRONT	REAR	THIRD	SECOND	FRONT
26	A20C					8N RED	2UU RED	2BF BLACK	2ABK BLACK
32	A20B					8N RED	2UU RED	2BF BLACK	2GR BLACK

A20 Keys

April 1961

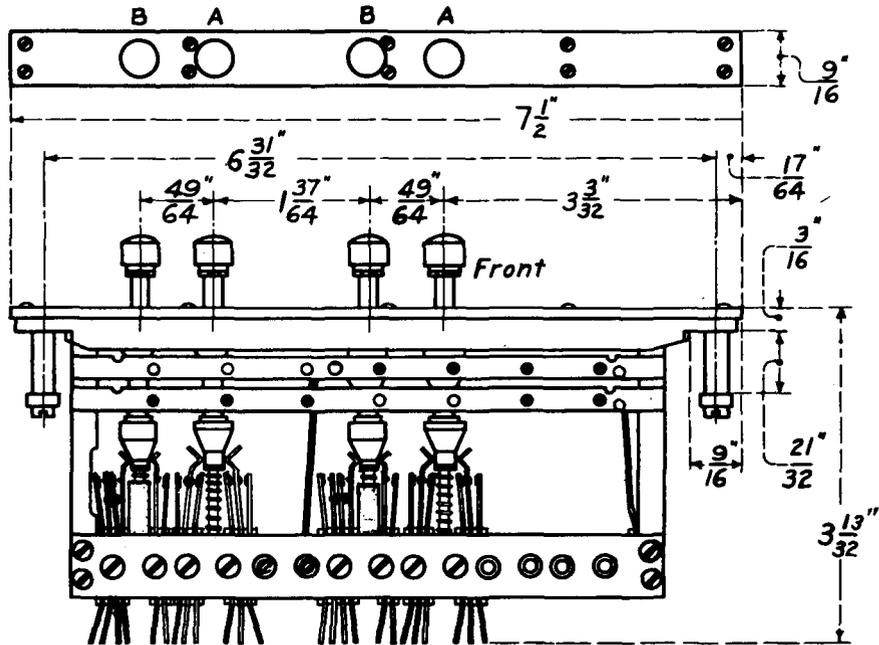
4R - Standard sequence requirement does not apply.

12R - Standard nonclick requirement does not apply.

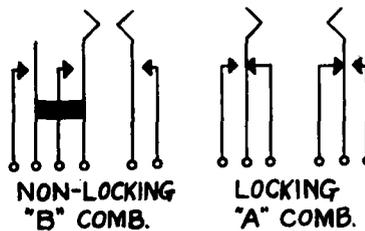
1B - Closed contacts in each spring pileup shall break before open contacts in the same pileup make.

A24-TYPE KEYS

12 Contact Springs



A24A1 Also General Design and Dimensions of A24 Type



These keys are equipped with four push buttons arranged in groups of two.

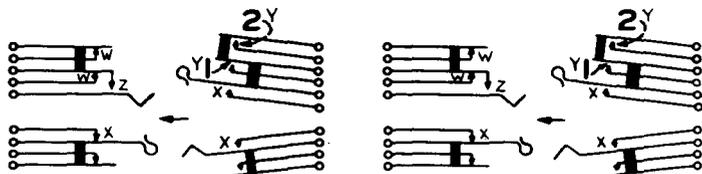
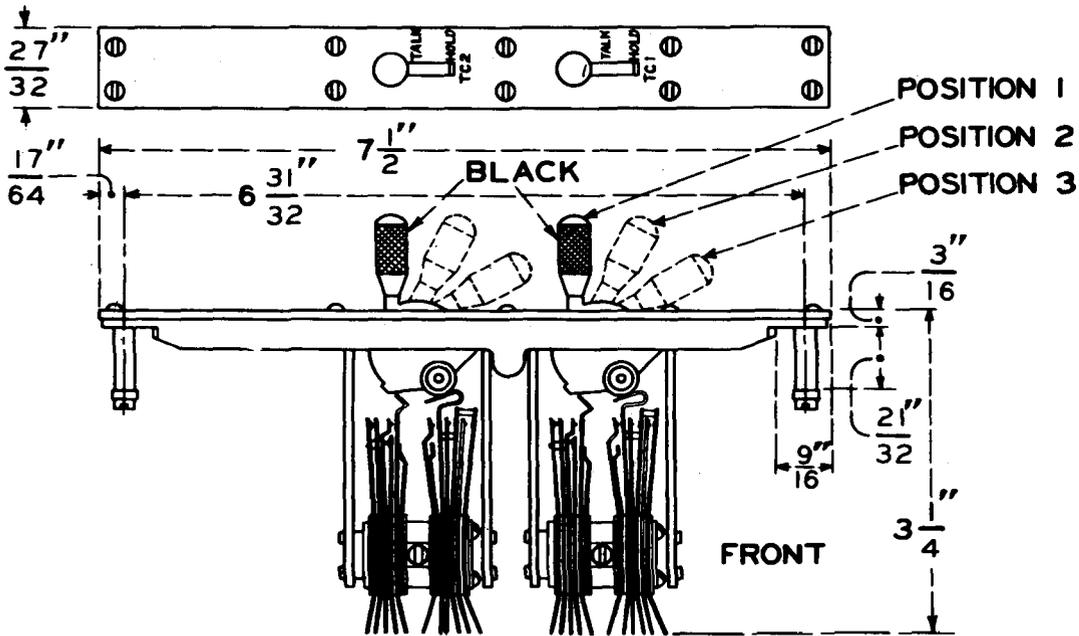
Locking push buttons lock in a fully depressed position and when locked are released by the operation of the other push button (nonlocking) of the same group.

Buttons for A24A1 are red, for A24A2 are white, and for A24A3 are black.

X-75506

A26A KEY

38 Contact Springs



**SCHEMATIC FOR POSITION 1
ALL POSITIONS ARE LOCKING**

This key is equipped with two 3-position 1-way lever-type 5P key units.

Contacts at 1 and 2 are heavy. Transfer from position 2 to position 3 of the key units will not momentarily open circuit.

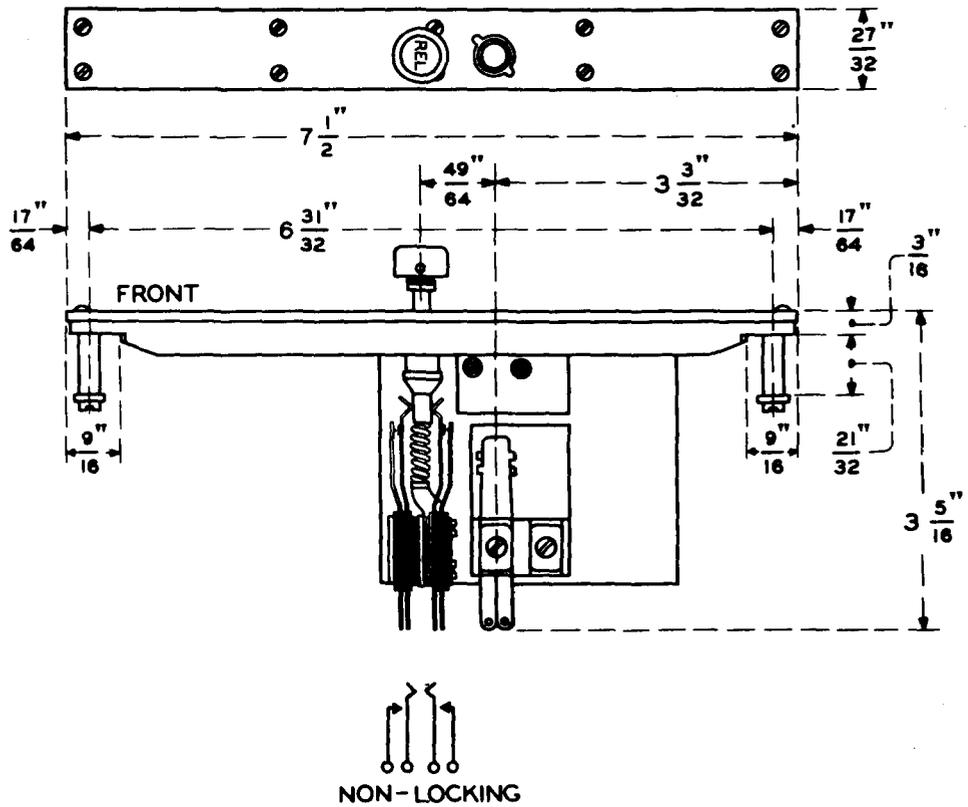
X contacts break before Y contacts break.

X contacts break before Z contacts make.

Only Y contacts meet standard nonclick requirement.

A27A KEY

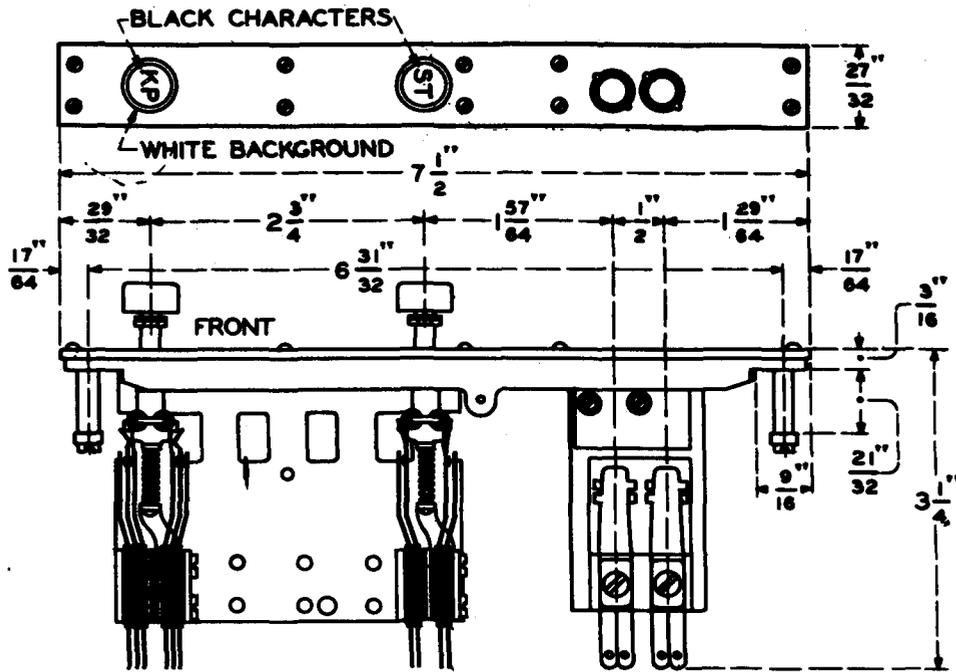
4 Contact Springs



X-75506

This key is equipped with a nonlocking push button having white characters on a black background and a lamp socket for a No. 2-type lamp.

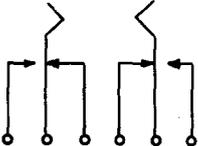
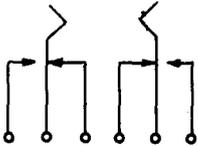
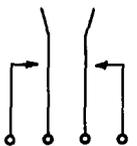
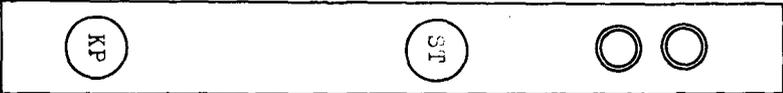
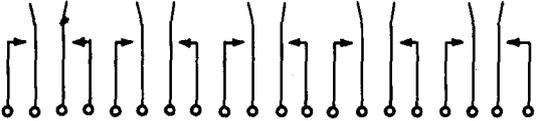
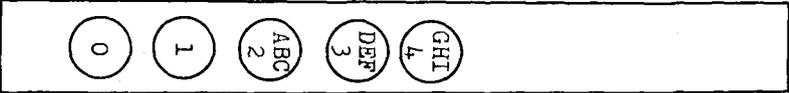
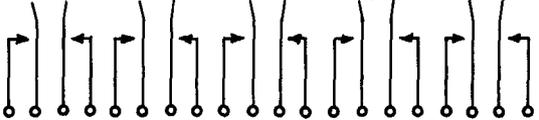
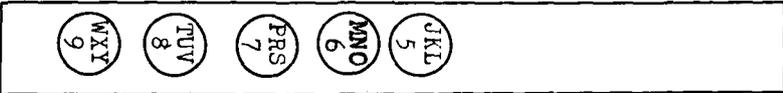
A28-TYPE KEYS

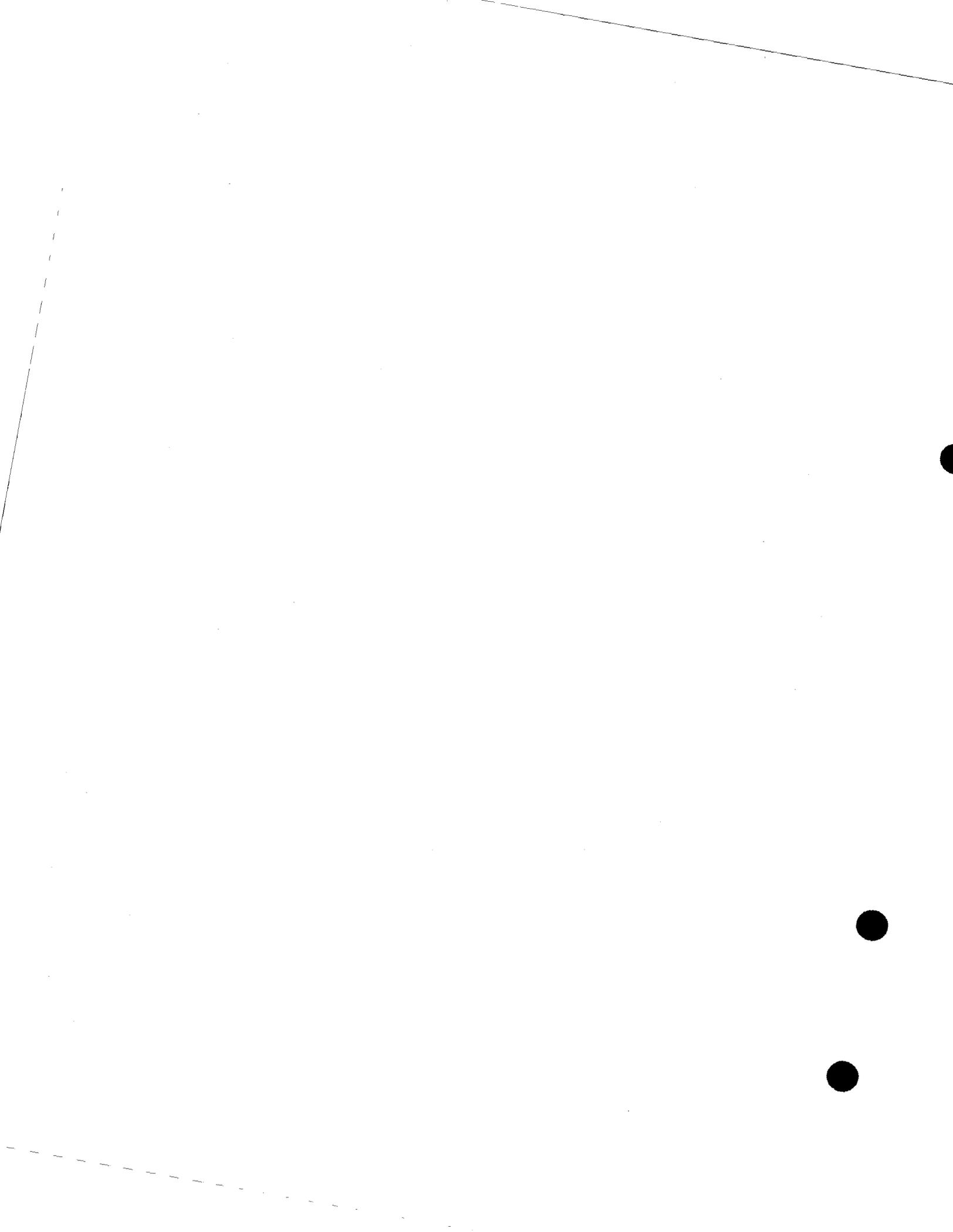


A28A Key Also General Design and Dimensions of A28 Type

These keys are equipped with up to five nonlocking push buttons, and up to two lamp sockets for No. 2-type lamps.

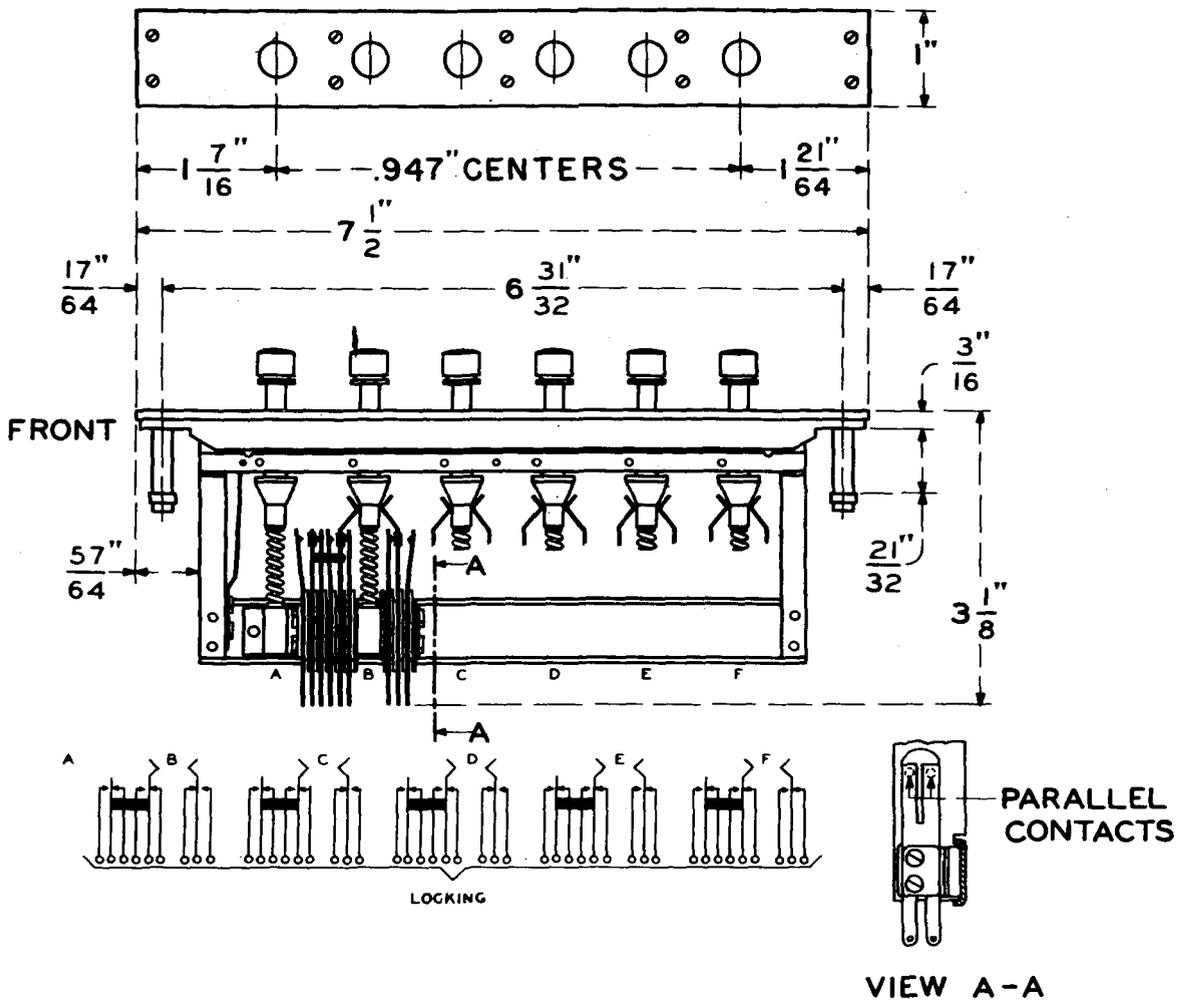
A28B key has heavy No. 2 metal contacts.

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
6	A28B	 <p>NONLOCKING</p>	<p>COLOR OF CHARACTERS & BUTTONS AS SPECIFIED</p> 
10	A28A	 <p>NONLOCKING</p>  <p>NONLOCKING</p>	<p>BLACK CHARACTERS WHITE BACKGROUND</p> 
20	A28C	 <p>NONLOCKING</p>	<p>COLOR OF CHARACTERS & BUTTONS AS SPECIFIED</p> 
20	A28D	 <p>NONLOCKING</p>	<p>COLOR OF CHARACTERS & BUTTONS AS SPECIFIED</p> 



A30A KEY

45 Contact Springs

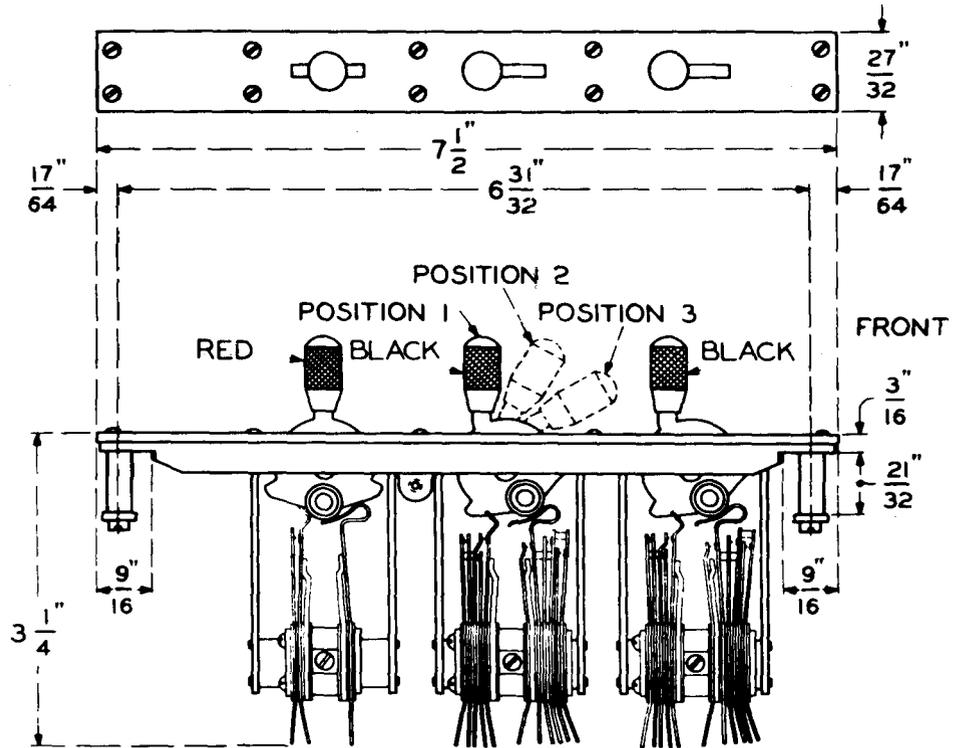


This key is equipped with five locking push buttons and one push button (Position A) with no contact springs. Any push button when operated is released by the operation of any other button.

All springs are equipped with parallel contacts.

Position A has a red button, positions B, D, and F white buttons, and positions C and E, black buttons.

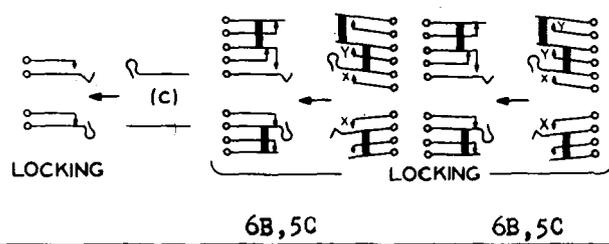
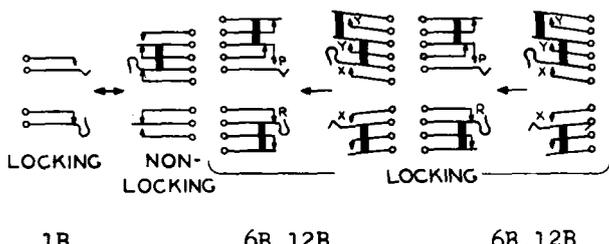
A31-TYPE KEYS



X-75506

These keys are equipped with two 3-position 1-way lever-type key units, and one 3-position 2-way lever-type key unit.

For 3-position 1-way lever-type key units all positions are locking and schematics are shown for position 1. A No. 38D shield can be used with these keys.

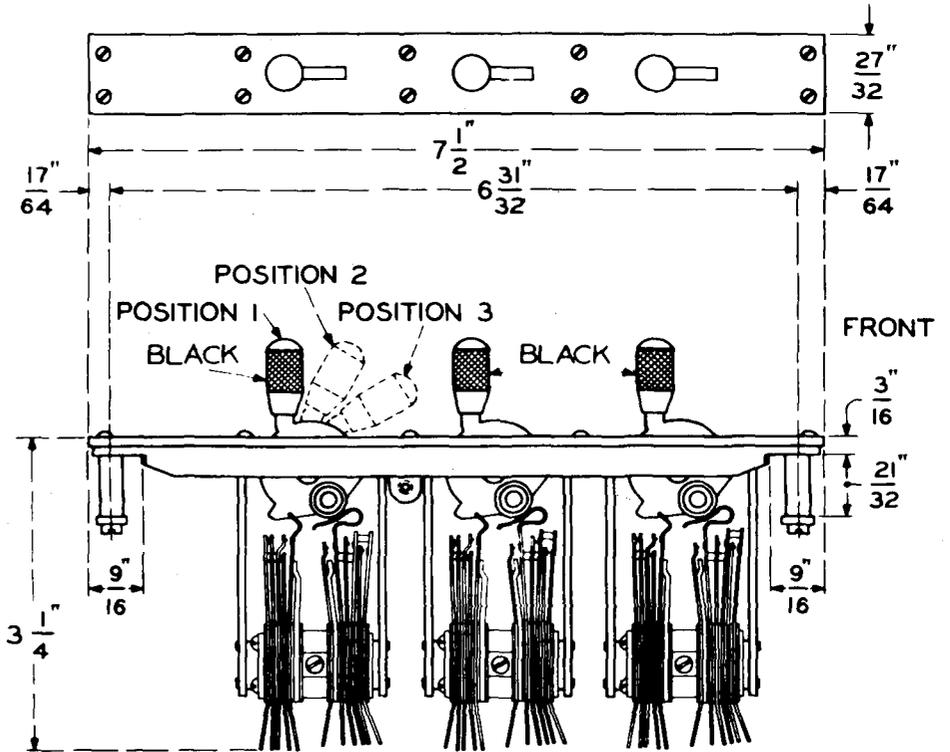
CONT. SPGS.	CODE	SCHEMATIC			TOP VIEW		
		REAR	MIDDLE	FRONT	REAR	MIDDLE	FRONT
42	A31A	 <p>LOCKING (C)</p> <p>LOCKING</p> <p>6B, 5C</p> <p>6B, 5C</p>	2ACW	5N	5N		
50	A31B	 <p>LOCKING NON-LOCKING</p> <p>LOCKING</p> <p>1B</p> <p>6B, 12B</p> <p>6B, 12B</p>	2ASG	5N	5N		

1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
 6B - X contacts shall break before Y contacts break.

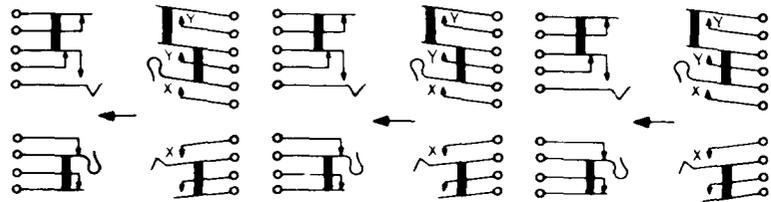
12B - Closed contact R shall break before open contact P makes.
 5C - Standard nonclick requirement need apply only to Y contacts.
 (C) - Cushion springs to reduce noise.

A32A KEY

57 Contact Springs



X-75506



SCHEMATICS FOR POSITION 1
ALL POSITIONS ARE LOCKING

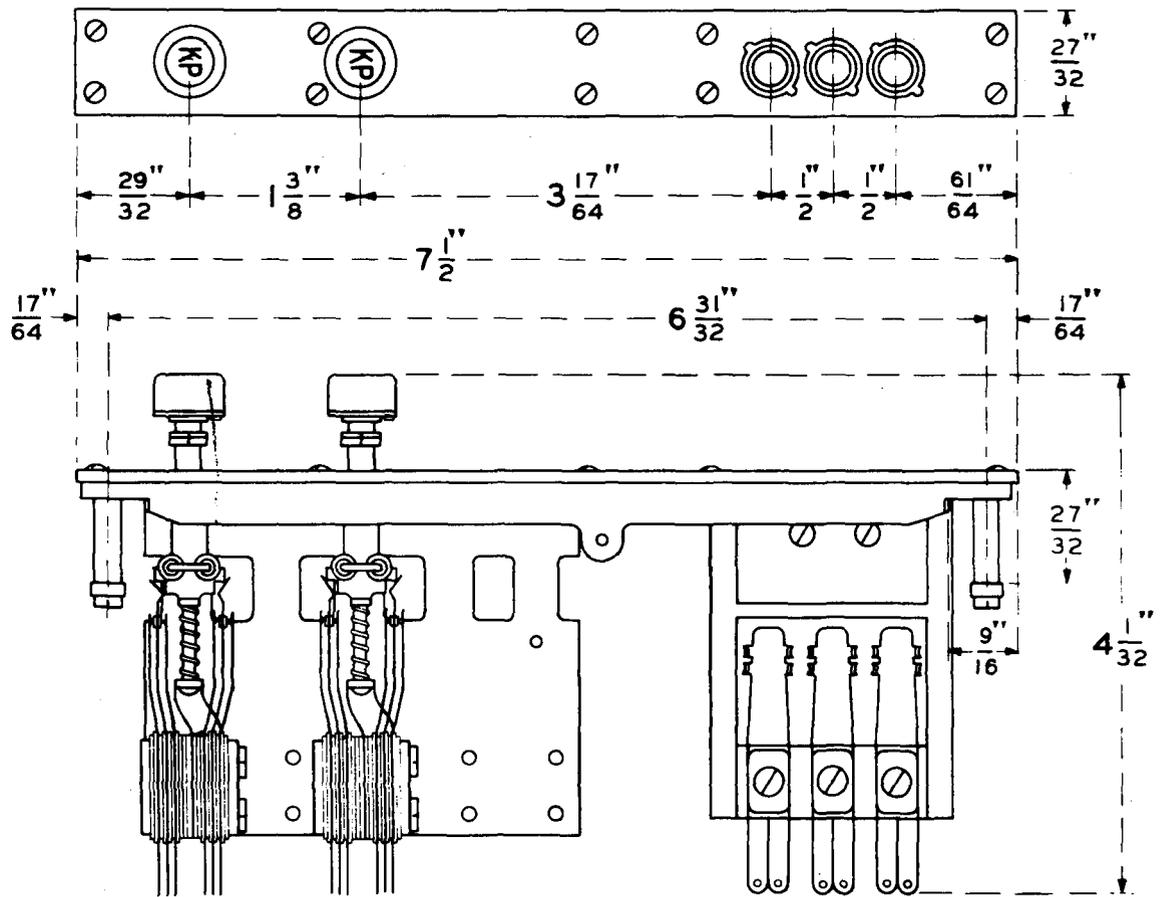
This key is equipped with three 3-position 1-way lever-type 5N key units. A No. 38D shield can be used with this key.

X contacts break before Y contacts break.

Only Y contacts meet standard nonclick requirements.



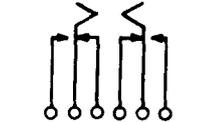
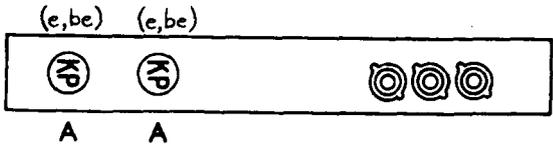
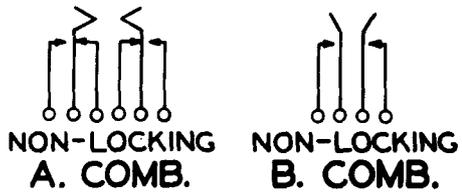
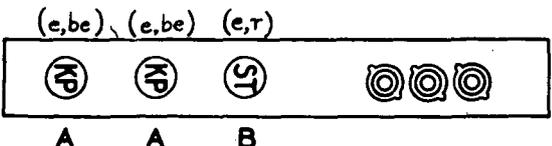
A34-TYPE KEYS



4-75506

A34A Also General Design and Dimensions of A34 Type

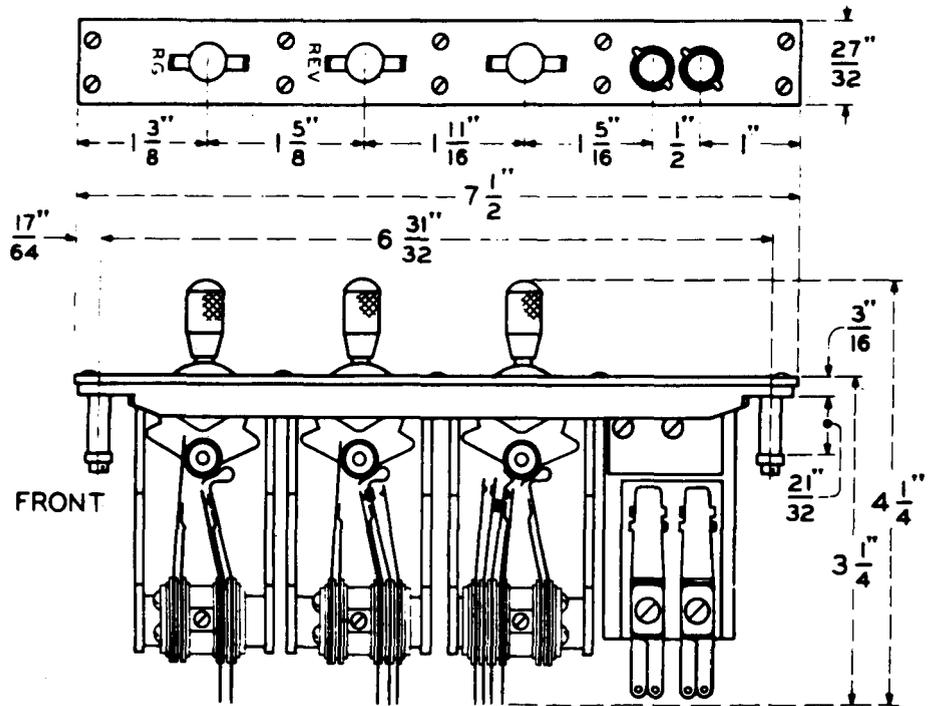
These keys are equipped with one or more push buttons and one or more lamp sockets for a No. 2-type lamp as indicated under the individual codes.

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
12	A34A	 <p>NON-LOCKING A. COMB.</p>	 <p>(e,be) (e,be)</p> <p>A A</p>
16	A34B	 <p>NON-LOCKING A. COMB.</p> <p>NON-LOCKING B. COMB.</p>	 <p>(e,be), (e,be) (e,r)</p> <p>A A B</p>

(e) - Heavy No. 2 metal contacts.
 (r) - Molded metal frame buttons having red background with black characters.

(be) - Metal frame button having white background with black characters.

A35-TYPE KEYS



A35A Also General Design and Dimensions of A35 Type

These keys are equipped with lever-type key units (three maximum) and one or two lamp sockets for a No. 2-type lamp as indicated for the individual codes.

X-75506

CONT. SPGS.	CODE	SCHEMATIC			TOP VIEW
		FRONT	MIDDLE	REAR	
6	A35J			<p>LOCKING 4R, 12R</p>	<p>2AL BLACK</p>
12	A35G		<p>LOCKING</p>		<p>(f) 2ATR BLACK</p>
16	A35D	<p>LOCKING 4R, 71B, 14C</p>			<p>(f) 2APD BLACK</p>
20	A35A	<p>(c) LOCKING</p>	<p>(c) LOCKING</p>	<p>(c) LOCKING</p>	<p>2AGJ BLACK 2ABK BLACK 2ACF BLACK</p>
20	A35C	<p>(c) LOCKING 4R, 12R</p>	<p>(c) LOCKING 4R, 12R</p>	<p>NON-LOCKING 4R, 12R</p>	<p>2AGJ BLACK 2ABK BLACK 2ACE BLACK</p>

4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 71B - Contact X shall make before contact Y makes.

14C - Standard nonclick requirement need not apply to X contacts.
 (c) - Cushion springs to reduce noise.
 (f) - Heavy contacts.

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A35 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC			TOP VIEW
		FRONT	MIDDLE	REAR	
21	A35F	<p>LOCKING</p>	<p>LOCKING</p>	<p>LOCKING</p>	<p>2ACY BLACK (f)2ATR BLACK</p>
30	A35E	<p>LOCKING</p> <p>(cg)</p>	<p>LOCKING</p>	<p>LOCKING</p>	<p>2APY BLACK (f)2ATR BLACK</p>
48	A35B	<p>LOCKING</p> <p>4R,71B,14C</p>	<p>LOCKING</p> <p>4R,71B,14C</p>	<p>LOCKING</p> <p>4R,71B,14C</p>	<p>2APD RED 2APD BLACK 2APD RED</p>

4R - Standard sequence requirement does not apply.
 71B - Contact X shall make before contact Y makes.
 14C - Standard nonclick requirement need not apply to X contacts.

(C) - Cushion springs to reduce noise.
 (f) - Heavy contacts.
 (cg) - X contacts shall make before R contacts break.

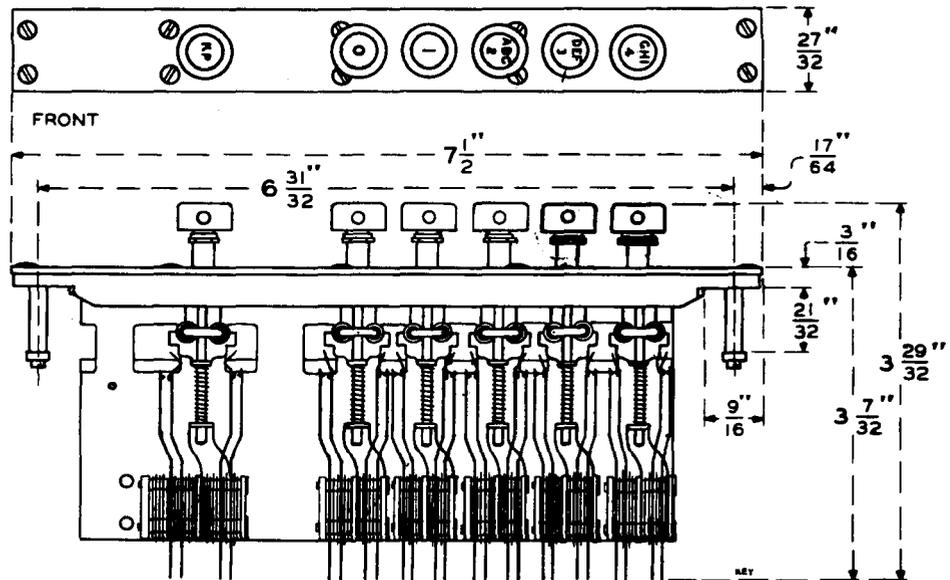
CONT. SPGS.	CODE	SCHEMATIC			TOP VIEW
		FRONT	MIDDLE	REAR	
52	A35H				<p>2ACW BLACK 2ABR BLACK 2ABR BLACK</p>

4R - Standard sequence requirement does not apply.

12R - Standard nonclick requirement does not apply.

1B - Closed contacts in each spring pileup shall break before open contacts in the same pileup make.

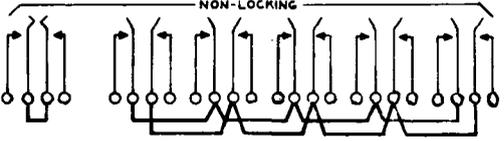
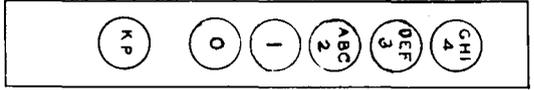
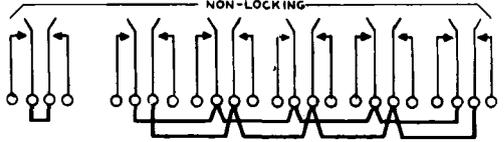
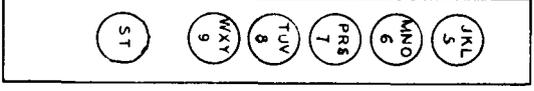
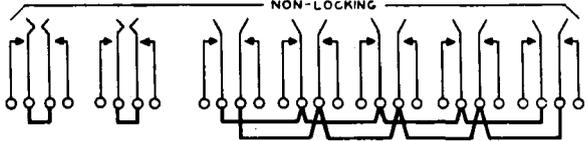
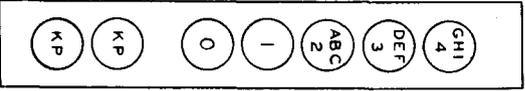
A36-TYPE KEYS



A36A Also General Design and Dimensions of A36 Type

These keys are equipped with six or seven push buttons as indicated under individual code numbers. Designations on buttons are black on white backgrounds unless otherwise indicated.

X-75506

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
24	A36A		<p>(f)</p> 
24	A36B		<p>(f)</p> 
28	A36C		<p>(f) (f)</p> 

(f) - Heavy contacts.

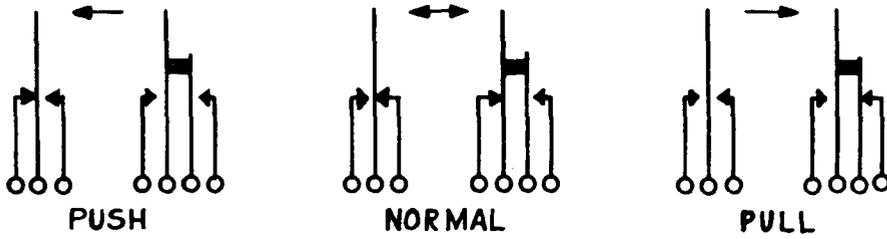
NOTE

These keys should not be used for any other purpose than replacement and should not be specified for new equipment. Wherever possible, the recommended replacement key should be specified.

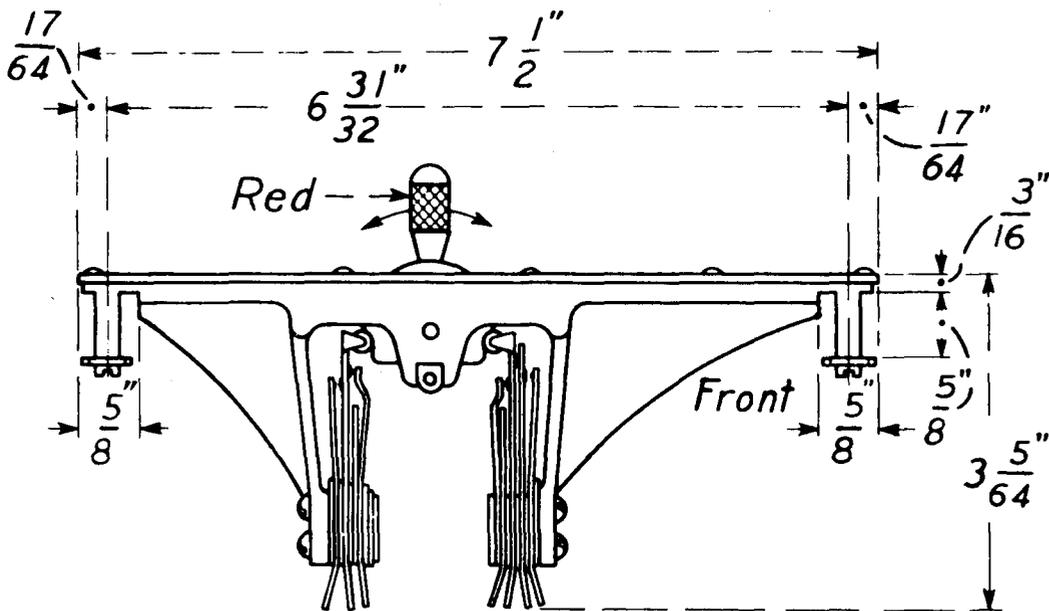
The keys in the following section are numerically coded keys that have been modified so as to provide for mounting in a universal-type keyshelf.

290CU KEY

7 Contact Springs

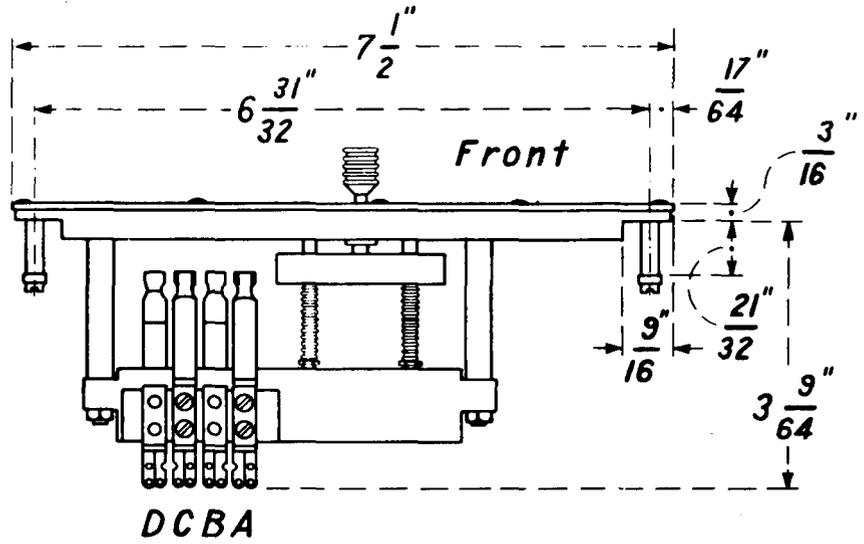
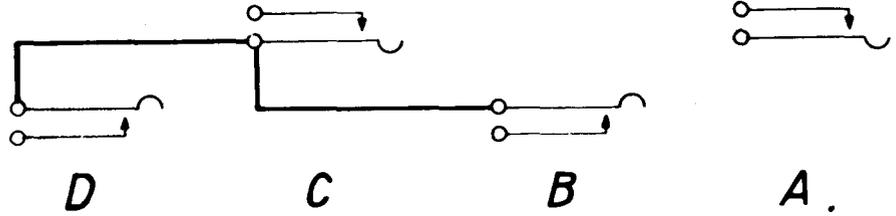


NON-LOCKING



478DU KEY

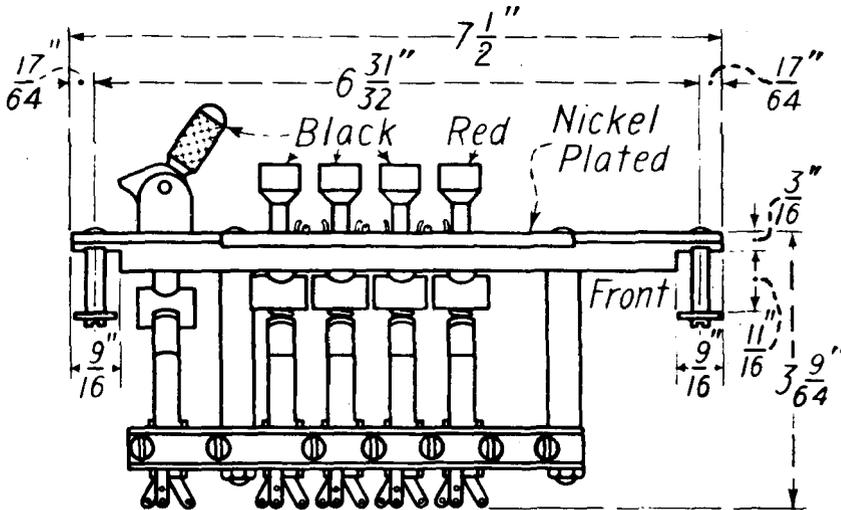
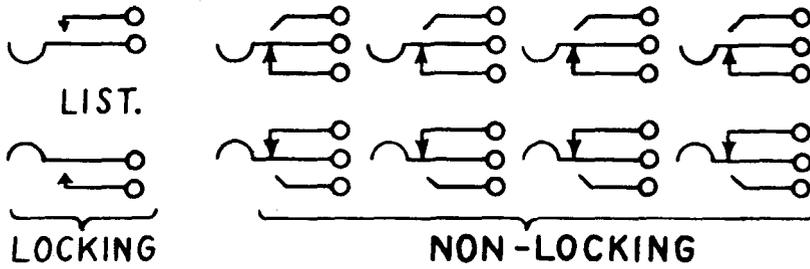
8 Contact Springs



X-75506

227BU KEY

28 Contact Springs

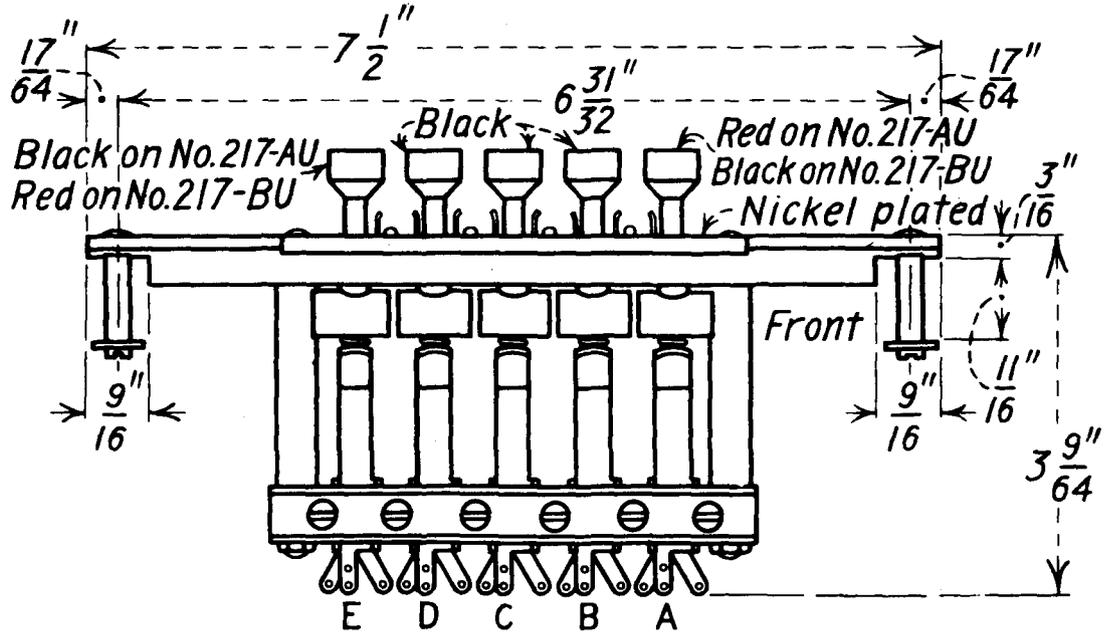


RECOMMENDED REPLACEMENT ASA

Contacts shown without arrowheads are arranged for ringing only.
Has indicator.

217AU AND 217BU KEYS

30 Contact Springs



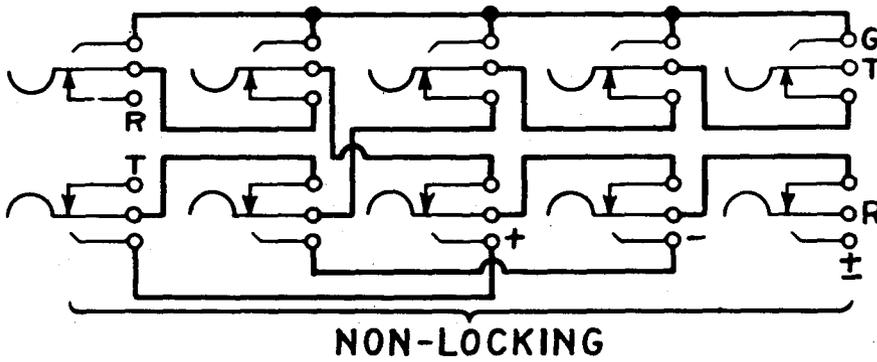
X-75506

Has indicator.

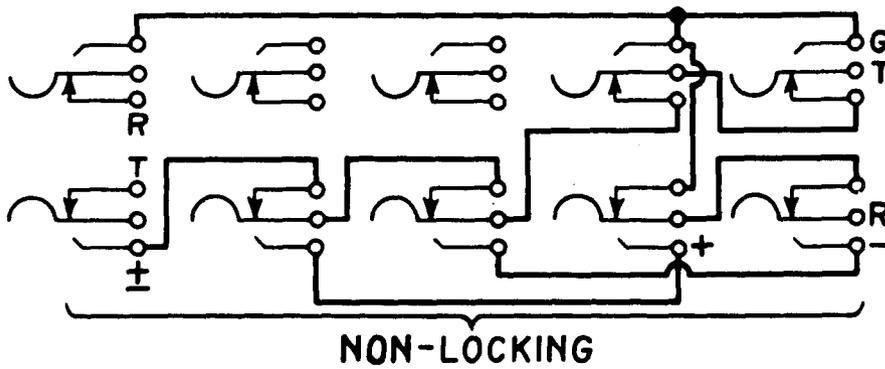
(Schematics on following page)

217AU AND 217BU KEYS (contd.)

30 Contact Springs



No. 217AU

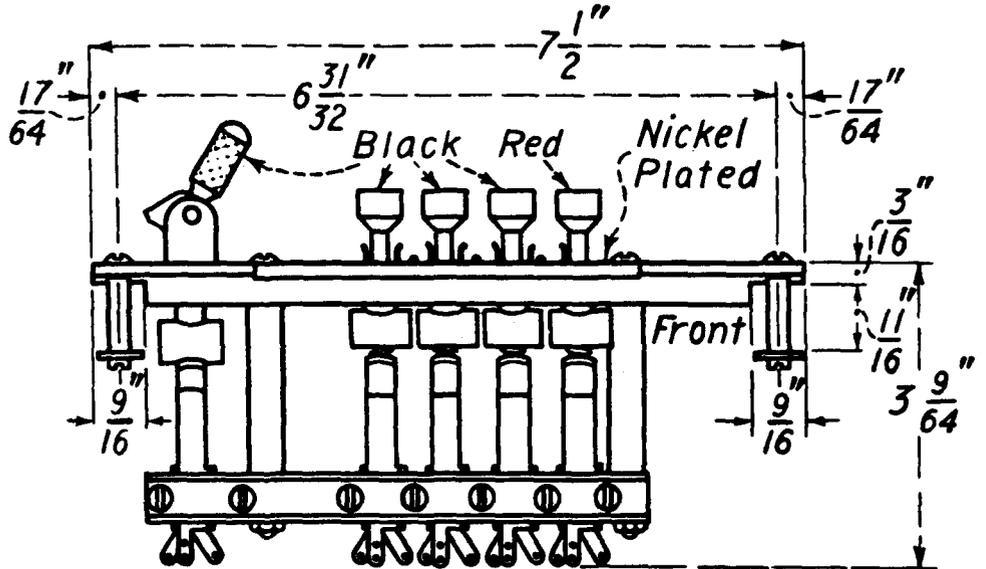
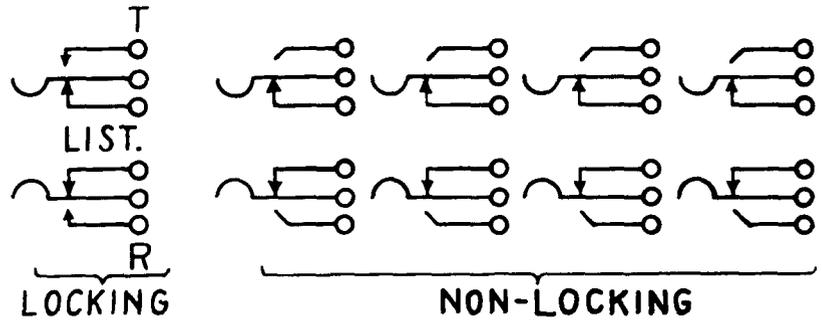


No. 217BU

Contacts shown without arrowheads are arranged for ringing only.

227AU KEY

30 Contact Springs

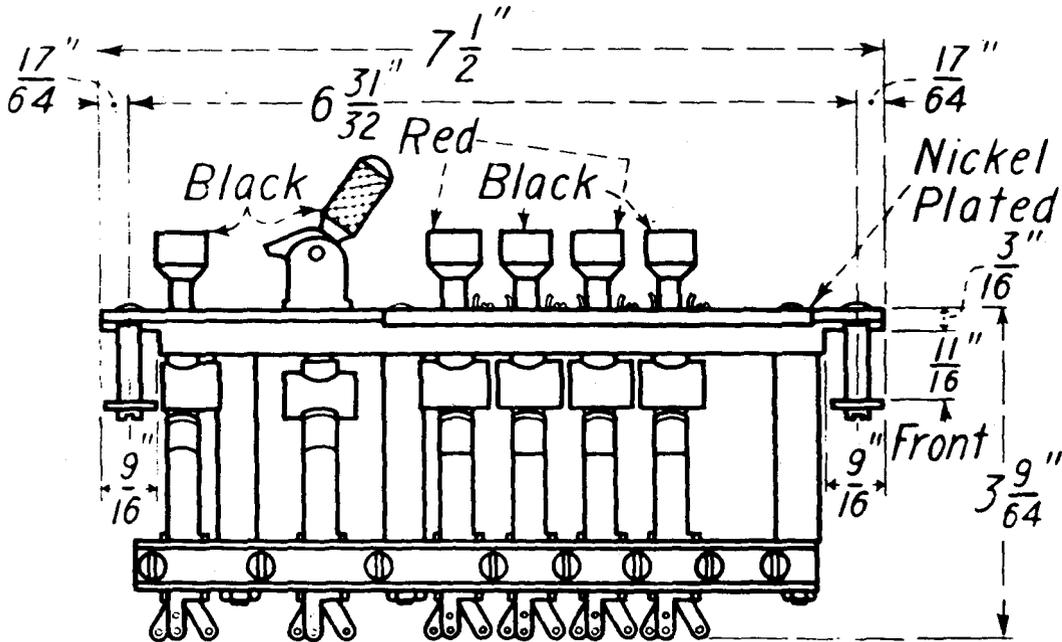


X-75506

Contacts shown without arrowheads are arranged for ringing only.
Has indicator.

273CU AND 273DU KEYS

32 Contact Springs

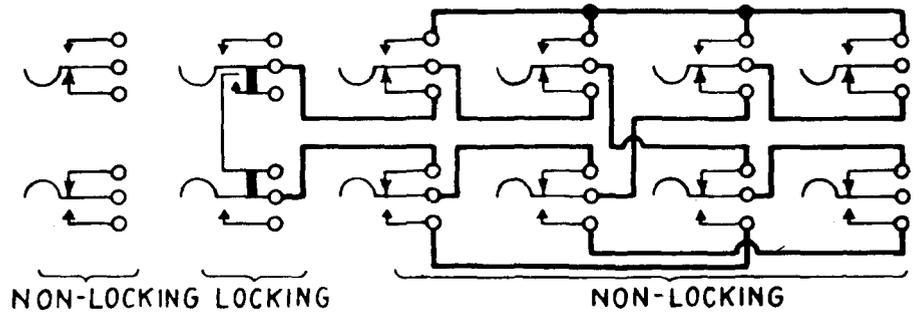


Has indicator.

(Schematics on following page)

273CU AND 273DU KEYS (contd.)

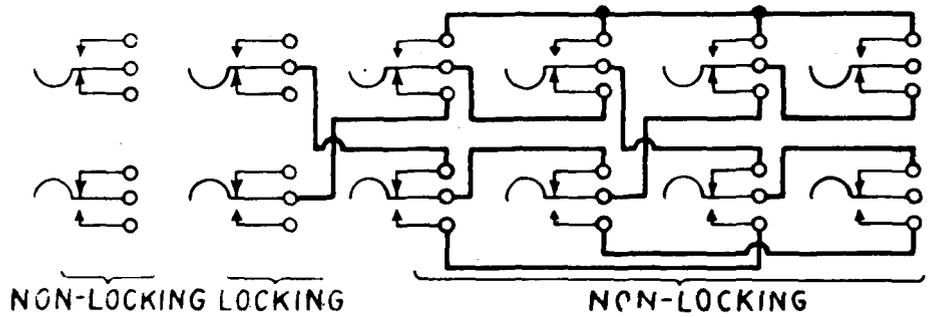
32 Contact Springs



NO. 273CU

Rear spring combination has platinum-iridium contacts.

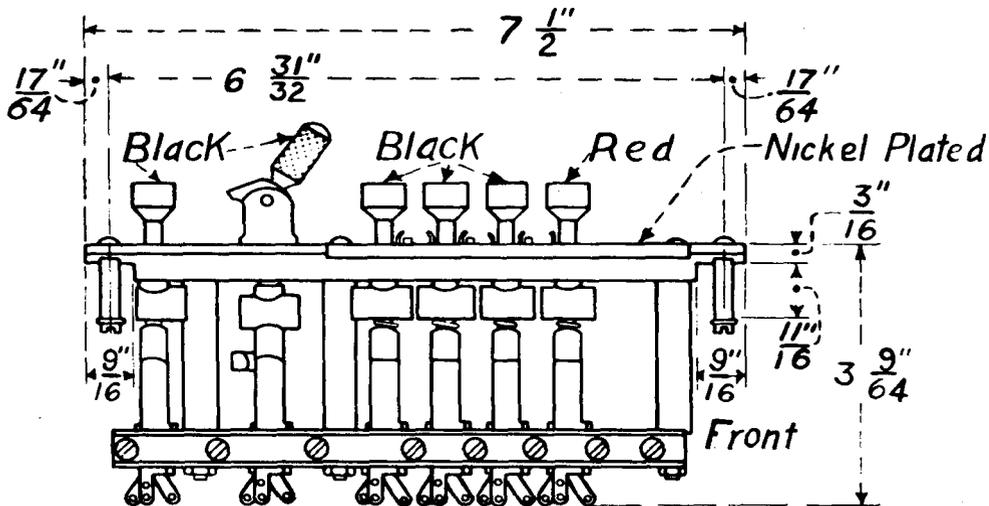
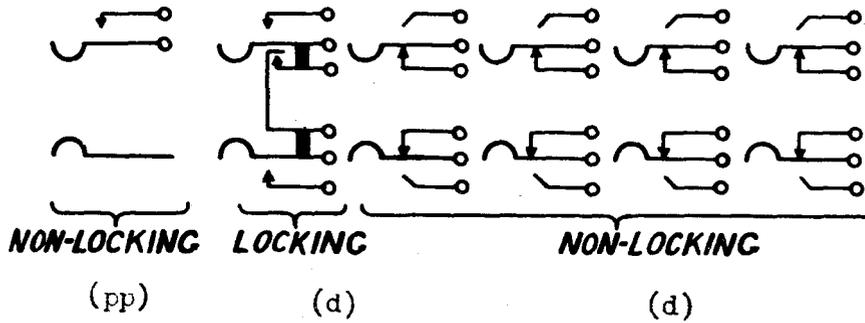
X-75506



No. 273DU

273GU, KEY

32 Contact Springs



RECOMMENDED REPLACEMENT A9D

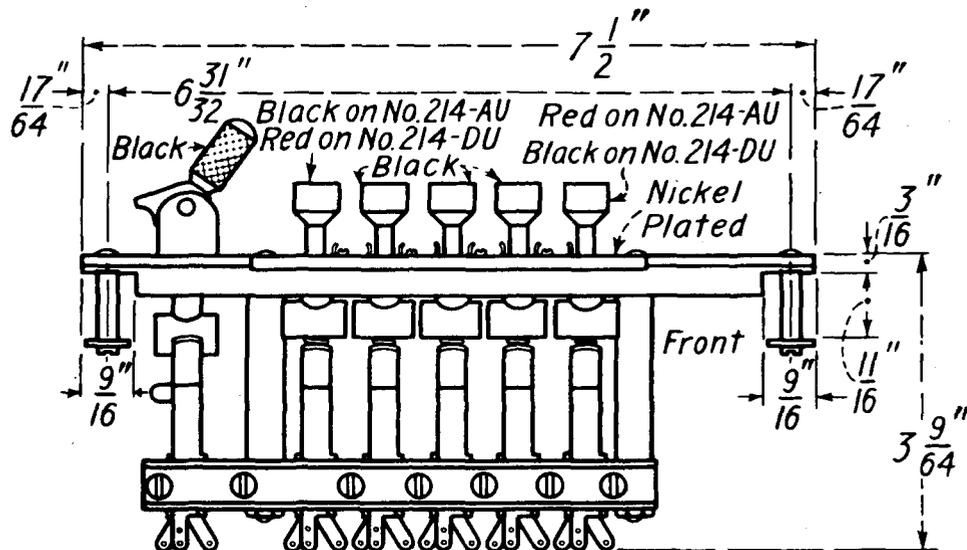
Contacts shown without arrowheads are arranged for ringing only.

(d) - No. 2 metal contacts.

(pp) - Heavy platinum-iridium contacts.

214AU AND 214DU KEYS

36 Contact Springs



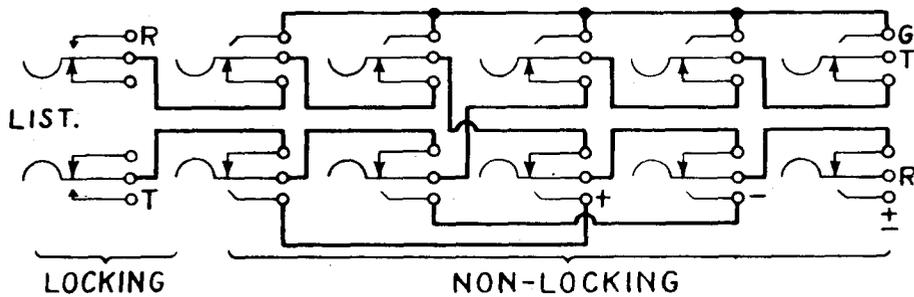
Contacts shown without arrowheads are arranged for ringing only.

(Schematics on following page)

X-75506

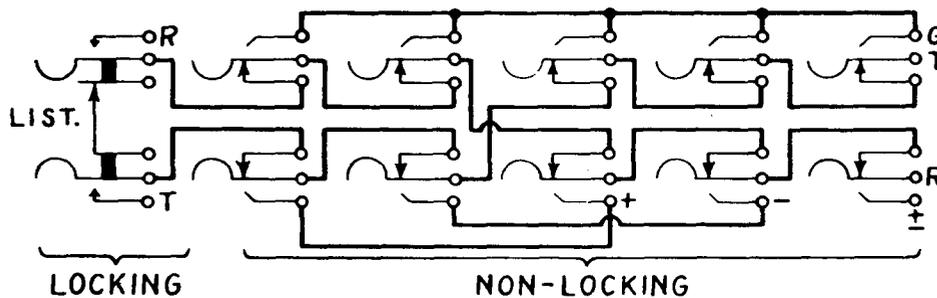
214AU AND 214DU KEYS (contd.)

36 Contact Springs



No. 214AU

RECOMMENDED REPLACEMENT A8G

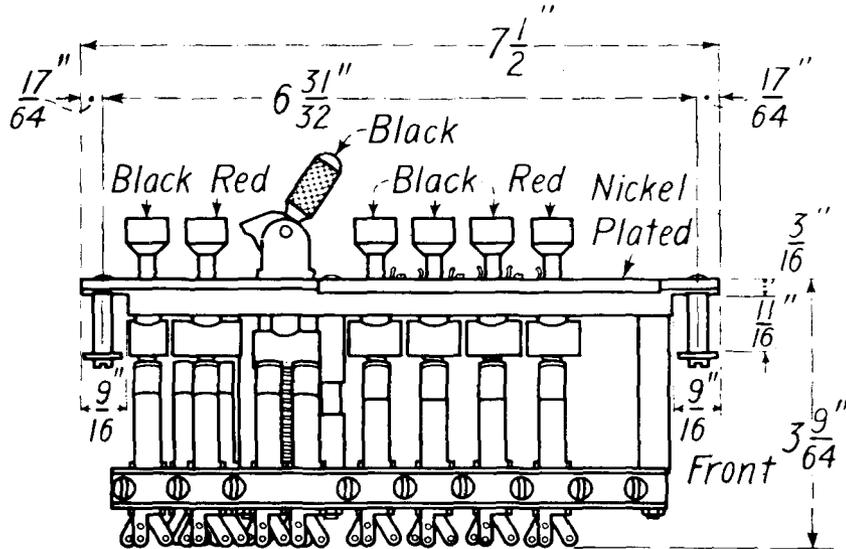


No. 214DU



408BU AND 408EU KEYS

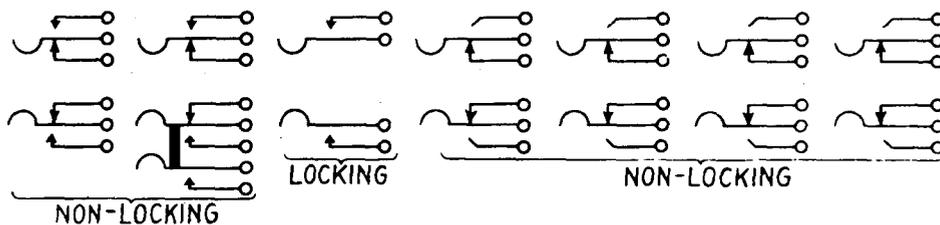
42 Contact Springs



General Design and Dimensions of Nos. 408BU and EU.

408BU KEY

42 Contact Springs

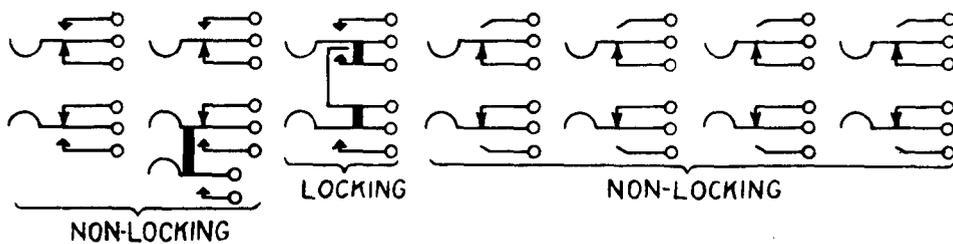


RECOMMENDED REPLACEMENT A9A

Contacts shown without arrowheads are arranged for ringing only. Message register contacts of coin collector combination are platinum-iridium.

408EU KEY

44 Contact Springs



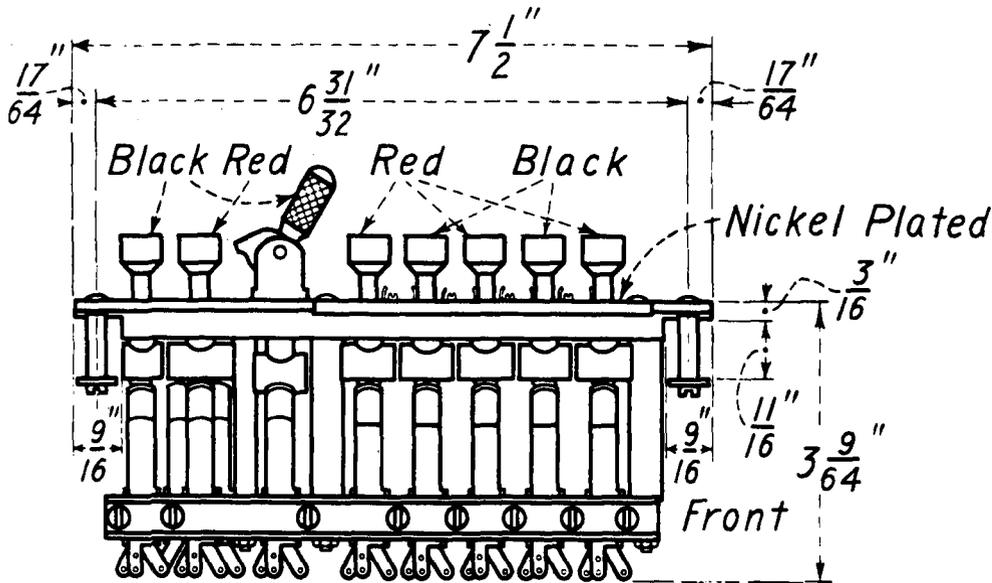
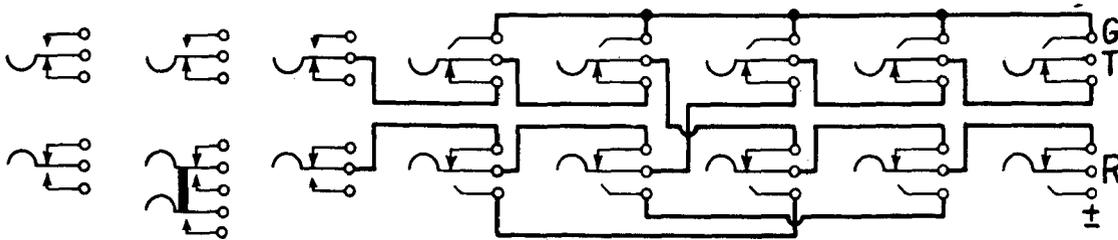
RECOMMENDED REPLACEMENT A9C

Contacts shown without arrowheads are arranged for ringing only. Contacts of coin collect and return spring combinations are No. 2 metal except message register contacts of coin collect spring combination which are platinum-iridium.

X-75506

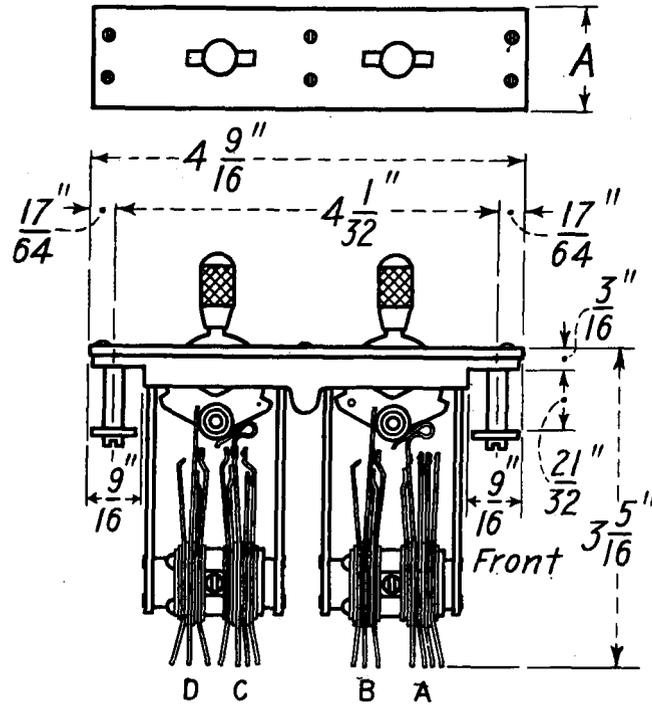
408AU KEY

50 Contact Springs



Contacts shown without arrowheads are arranged for ringing only.
 Contacts of coin collect and return spring combinations are No. 2 metal
 except message register contacts of coin collect spring combination
 which are platinum-iridium.

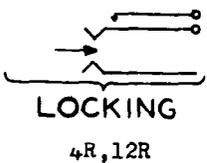
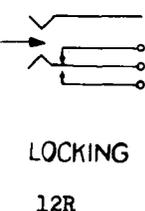
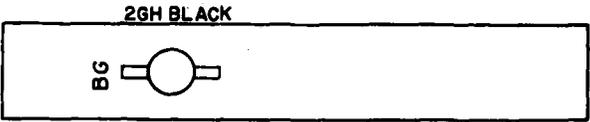
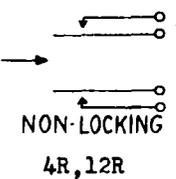
BL-TYPE KEYS



BLC Also General Design and Dimensions of Bl Type

These keys are equipped with lever-type keys units (two maximum) as indicated under the individual codes. A No. 38A shield can be used with these keys.

X-75506

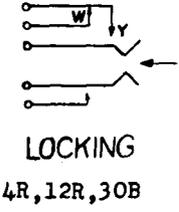
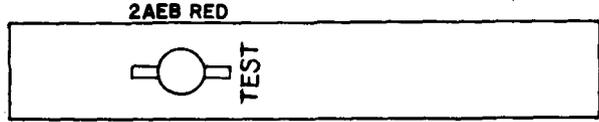
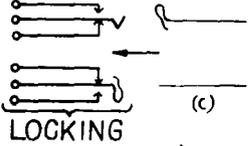
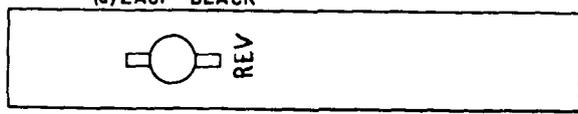
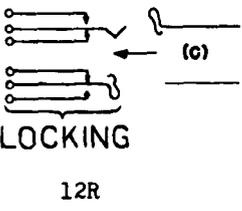
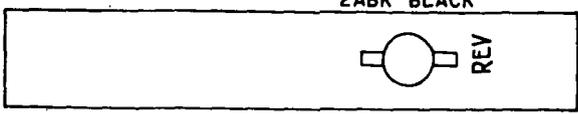
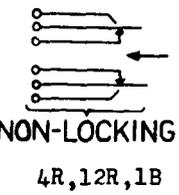
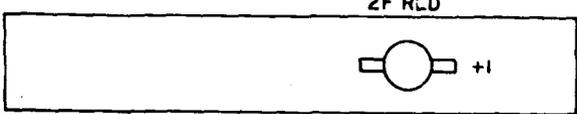
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
2	B1FD				2HN RED	
3	B1M				2AE RED	
3	B1HJ					
4	B1HT				2JK BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

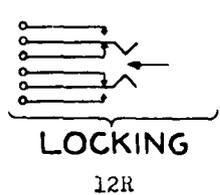
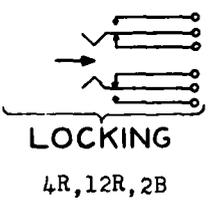
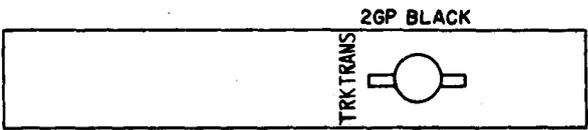
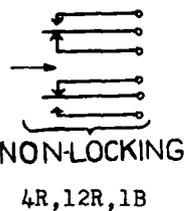
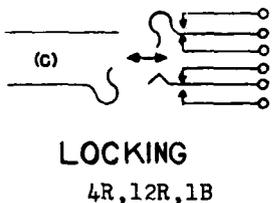
X-75506

Jan 1954

BI Keys (Contd.) - 27/32" wide

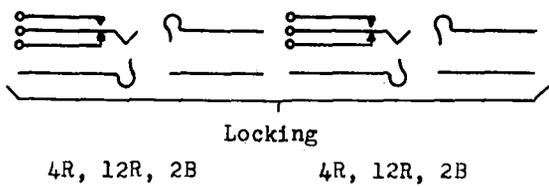
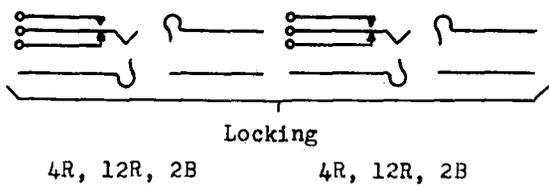
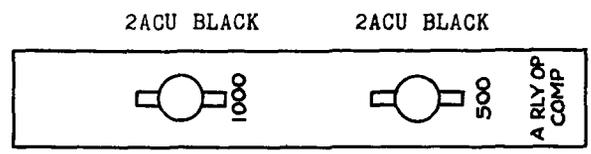
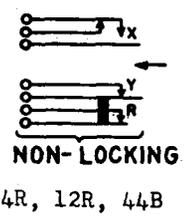
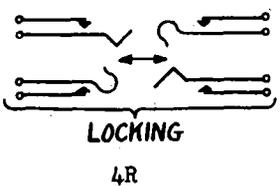
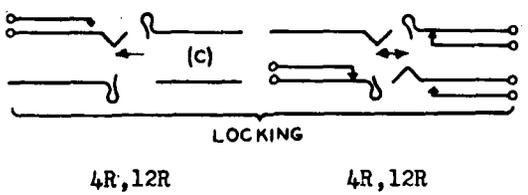
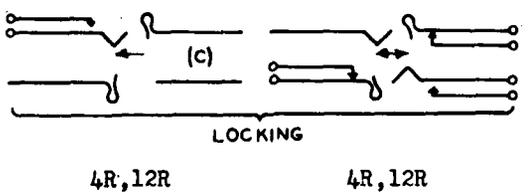
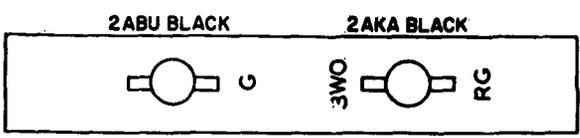
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
5	B1HH	 <p>LOCKING 4R, 12R, 30B</p>		 <p>2AEB RED TEST</p>		(dr)
6	B1BB	 <p>LOCKING (c)</p>		 <p>(d) 2ACP BLACK REV</p>		
6	B1EA	 <p>LOCKING 12R (c)</p>		 <p>2ABK BLACK REV</p>		
6	B1FA	 <p>NON-LOCKING 4R, 12R, 1B</p>		 <p>2F RCD +I</p>		(a)

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
6	B1FE	 <p>LOCKING 12R</p>		(d) 2A BLACK		
6	B1FF		 <p>LOCKING 4R, 12R, 2B</p>	 <p>2GP BLACK TRKTRANS</p>		
6	B1FN	 <p>NON-LOCKING 4R, 12R, 1B</p>		2EE BLACK		
6	B1JJ	 <p>(c) LOCKING 4R, 12R, 1B</p>		2ABK BLACK		

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

X-75506

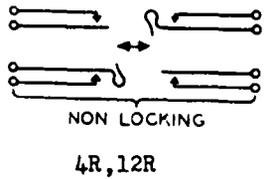
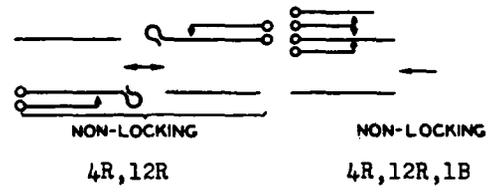
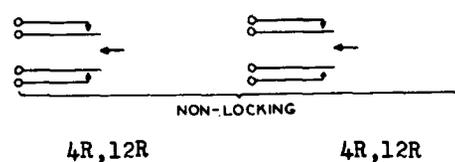
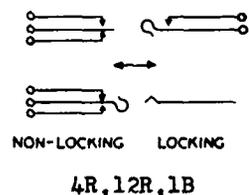
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
6	B1NE	 <p>Locking 4R, 12R, 2B</p>	 <p>Locking 4R, 12R, 2B</p>	 <p>2ACU BLACK 2ACU BLACK 1000 500 A RLY OP COMP</p>		
7	BLAK		 <p>NON-LOCKING 4R, 12R, 44B</p>		<p>2EF. BLACK</p>	
8	B1FY		 <p>LOCKING 4R</p>		<p>2BF BLACK</p>	
8	BLKF	 <p>(c) LOCKING 4R, 12R</p>	 <p>(c) LOCKING 4R, 12R</p>	 <p>2ABU BLACK 2AKA BLACK G OMF RG</p>		

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

Oct 1957

BI Keys (Contd.) - 27/32" wide

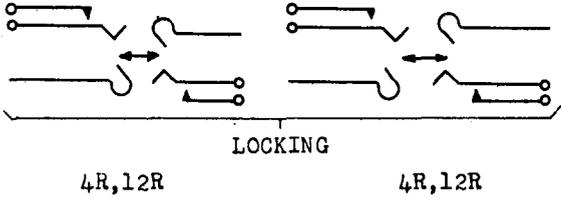
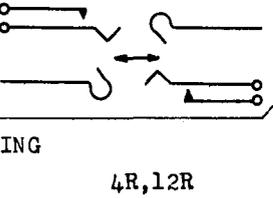
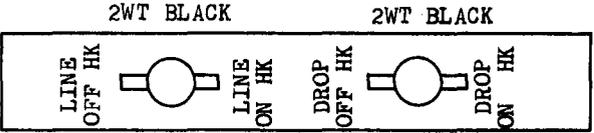
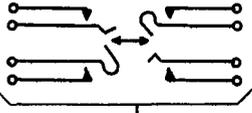
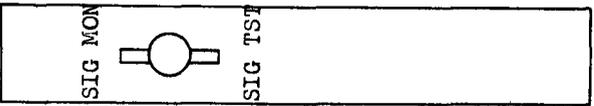
215

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
8	BlKH	 <p>NON LOCKING 4R,12R</p>		2UU BLACK		
8	B1LY	 <p>NON-LOCKING 4R,12R</p> <p>NON-LOCKING 4R,12R,1B</p>		2SP RED	2APC RED	
8	B1MK	 <p>NON-LOCKING 4R,12R</p> <p>NON-LOCKING 4R,12R</p>		2JK RED	2JK RED	
8	B1MP	 <p>NON-LOCKING LOCKING 4R,12R,1B</p>		2ARK RED		

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

April 1961

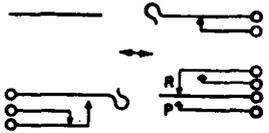
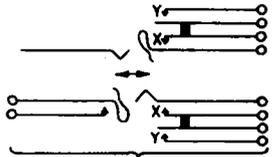
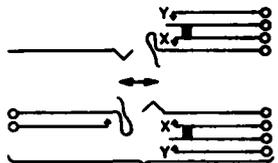
BI Keys (Contd.) - 27/32" Wide

CONT. SPCS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
8	BLNK	 <p>LOCKING 4R,12R</p>	 <p>LOCKING 4R,12R</p>	 <p>2WT BLACK 2WT BLACK</p>		
8	BLNM	 <p>LOCKING 4R,12R</p>		 <p>2BF BLACK</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103



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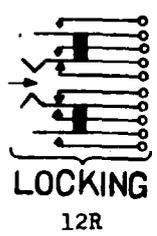
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
9	B1ER	 <p>NON-LOCKING</p>		2LS RED	2F RED	(a)
9	B1LU	 <p>NON-LOCKING</p>		4R, 12R, 12B	2APD RED	
10	B1AE	 <p>LOCKING</p>		4R, 43B, 11C, 14C	2ED BLACK	
10	B1AF	 <p>LOCKING</p>		4R, 43B, 11C, 14C	2ED RED	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

B1 Keys (Contd.) - 27/32" wide

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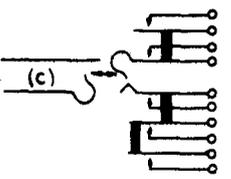
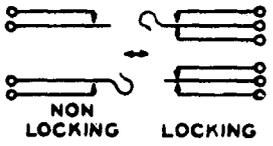
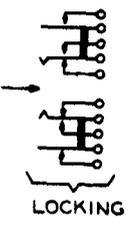
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
10	B1EG			2WB BLACK		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

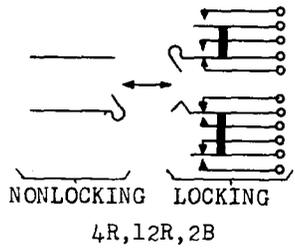
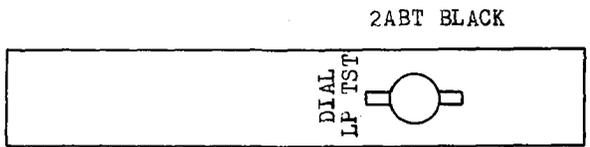
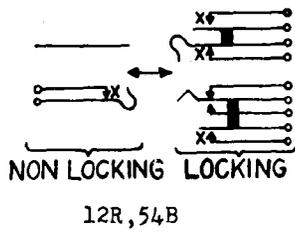
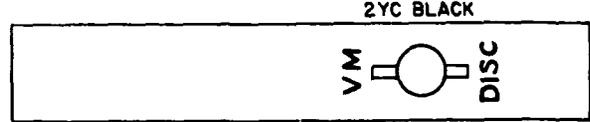
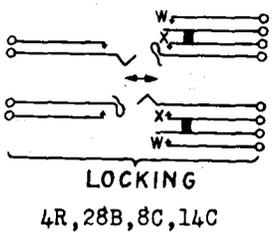
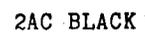
X-75506

Jan 1954

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
10	B1JY		 <p>LOCKING 4R</p>		2ACC BLACK	
10	B1LS		 <p>NON LOCKING LOCKING 4R, 12R, 1B</p>		2J RED	
10	B1NA		 <p>LOCKING 4R, 12R, 2B</p>		2WB BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

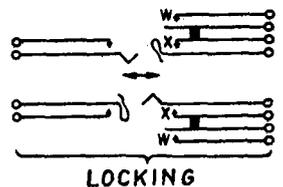
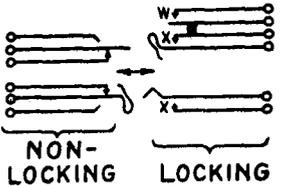
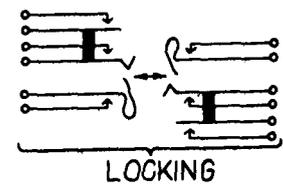
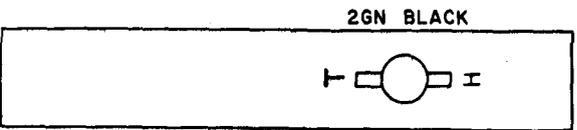
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
11	BI NJ		 <p>NONLOCKING LOCKING 4R, 12R, 2B</p>	 <p>2ABT BLACK DIAL LP TST</p>		
11	BI FC		 <p>NON LOCKING LOCKING 12R, 54B</p>	 <p>2YC BLACK VM DISC</p>		
12	BI J		 <p>LOCKING 4R, 28B, 8C, 14C</p>	 <p>2AC BLACK</p>		

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

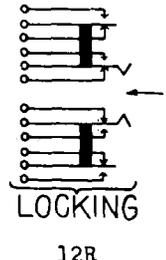
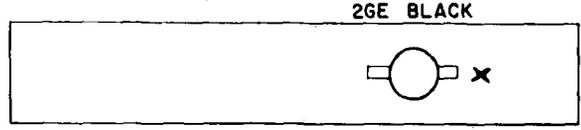
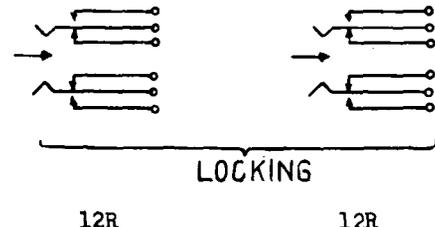
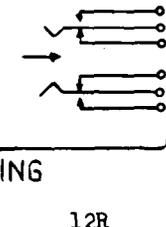
X-75506

Jan 1954

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
12	BLK		 <p>LOCKING 4R, 28B, 8C, 14C</p>		2AC RED	
12	B1L		 <p>NON-LOCKING LOCKING 28B, 1C</p>		2AD BLACK	(a)
12	B1BF		 <p>LOCKING 4R</p>		 <p>26N BLACK</p>	

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

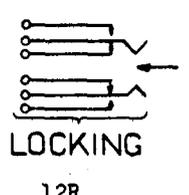
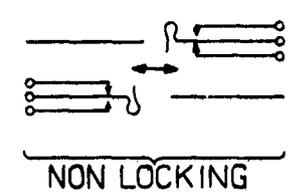
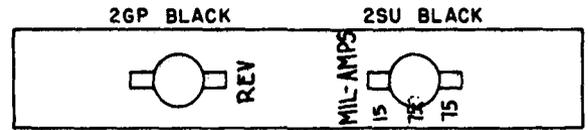
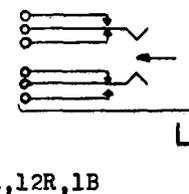
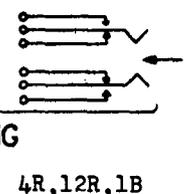
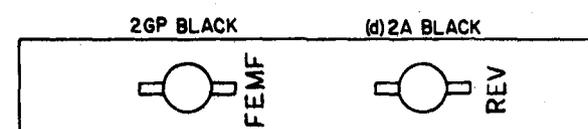
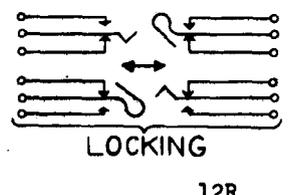
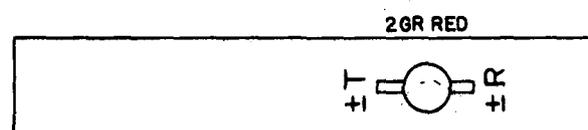
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
12	B1Bw					
12	B1Dw			(d) 2A BLACK	(d) 2A BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, Page 103

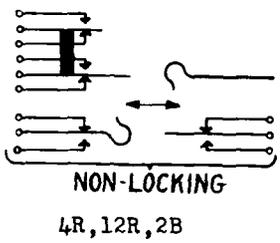
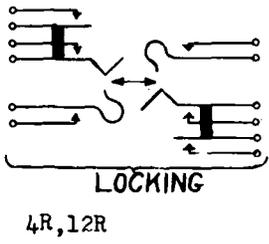
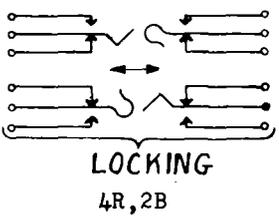
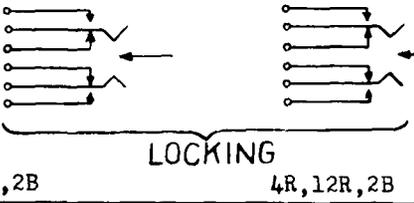
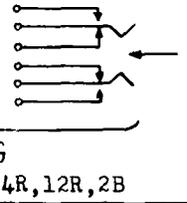
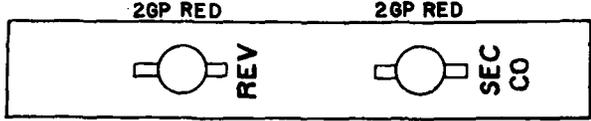
X-75506

Jan 1954

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
12	B1DY	 <p>LOCKING 12R</p>	 <p>NON LOCKING 12R</p>			
12	B1EY	 <p>LOCKING 4R, 12R, 1B</p>	 <p>LOCKING 4R, 12R, 1B</p>			
12	B1FH	 <p>LOCKING 12R</p>				

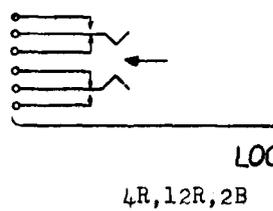
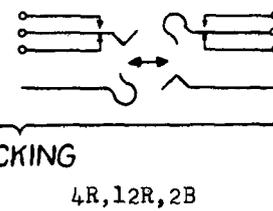
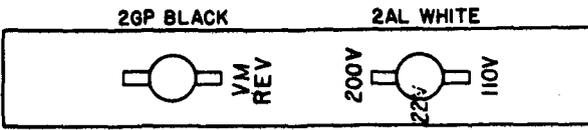
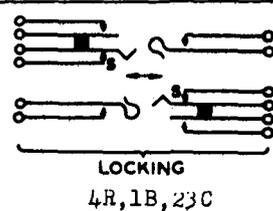
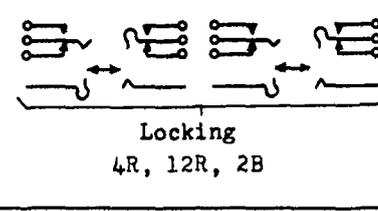
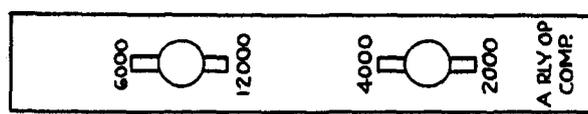
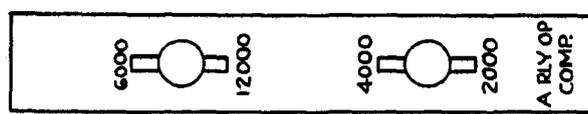
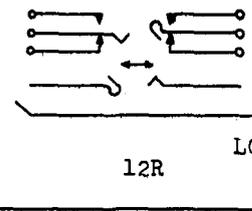
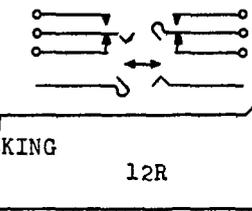
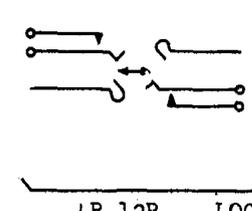
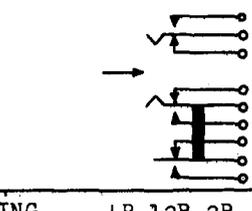
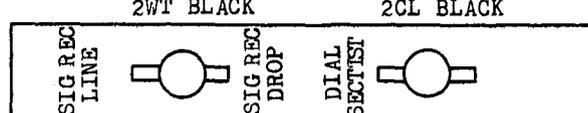
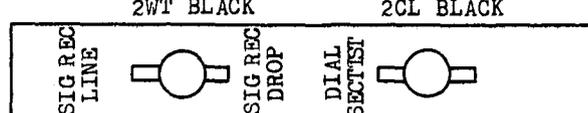
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
12	B1GB		 <p>NON-LOCKING 4R, 12R, 2B</p>		2ABC RED	
12	B1GD	 <p>LOCKING 4R, 12R</p>			2GN BLACK	
12	B1GG		 <p>LOCKING 4R, 2B</p>		2GR BLACK	
12	B1HB	 <p>LOCKING 4R, 12R, 2B</p>	 <p>LOCKING 4R, 12R, 2B</p>	 <p>2GP RED 2GP RED REV SEC CO</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

April 1961

BI Keys (Contd.) - 27/32" Wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
12	B1HK					
		4R,12R,2B	4R,12R,2B			
12	B1LM				20J BLACK	
			4R,1B,23C			
12	B1ND					
		4R, 12R, 2B			A BLY OP COMR	
12	B1NC			2AL BLACK	2AL BLACK	
		12R	12R			
13	B1NL					
		4R,12R	4R,12R,2B			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

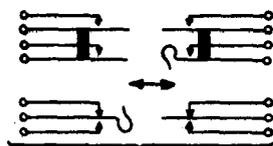
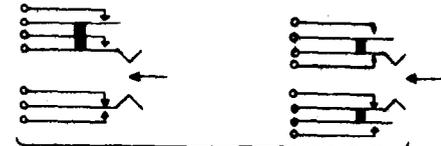
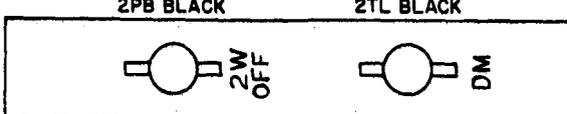
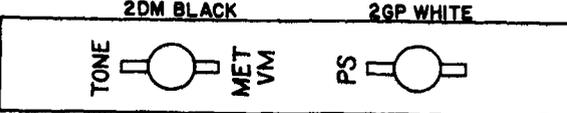
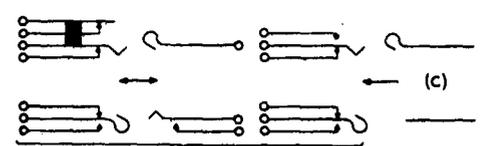
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
13	BLNN					
		4R,12R	4R,12R	2ABU BLACK	2ABT BLACK	
13	BIAN					
		12R	4R,12R,23B	2F RED	2EF WHITE	(a)
13	BLEB					
		12R	12R	2UP BLACK	2WW BLACK	
14	BIAR					
			NON-LOCKING 43B,11C,14C	2BS BLACK		(a)
14	BIBJ					
		4R,12R	30C	2KW RED	2G RED	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

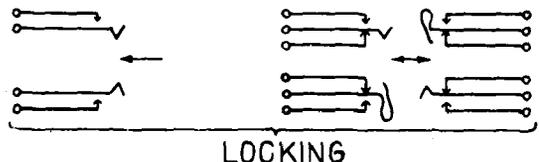
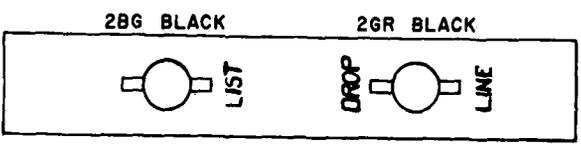
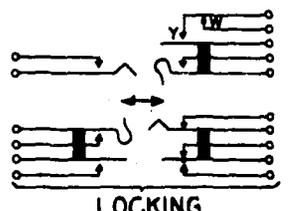
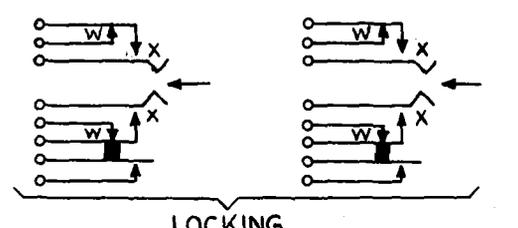
X-75506

Jan 1954

B1 Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
14	B1EJ	 <p>NON-LOCKING</p>		<p>2WK RED</p>		
15	B1ET	 <p>LOCKING</p> <p>4R, 12R, 1B 12R</p>	 <p>2PB BLACK 2TL BLACK</p> <p>2W OFF DM</p>			
15	B1HG	 <p>LOCKING</p> <p>4R, 12R, 2B 4R, 12R, 2B</p>	 <p>2DM BLACK 2GP WHITE</p> <p>TONE MET VM PS</p>			
15	B1MU	 <p>LOCKING</p> <p>4R, 12R, 1B 4R, 12R, 1B (c)</p>	<p>2ATM WHITE 2ABK RED</p>			

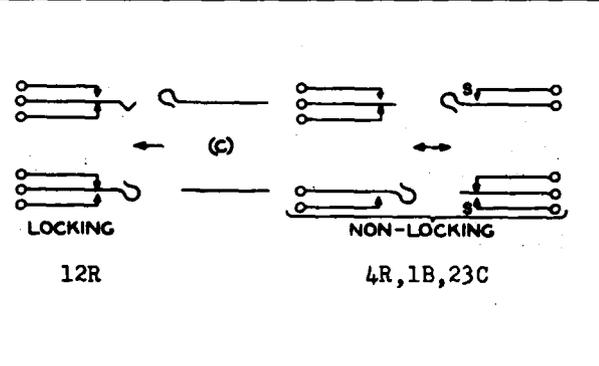
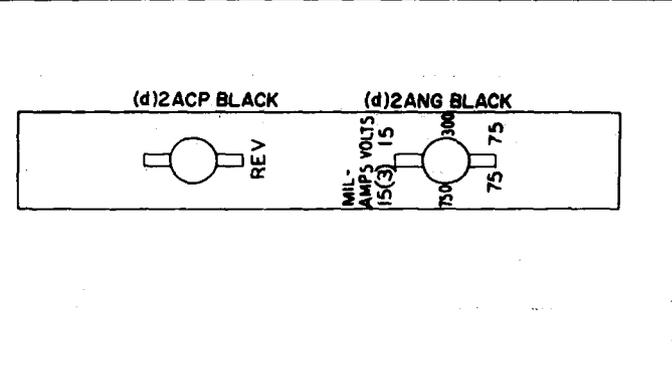
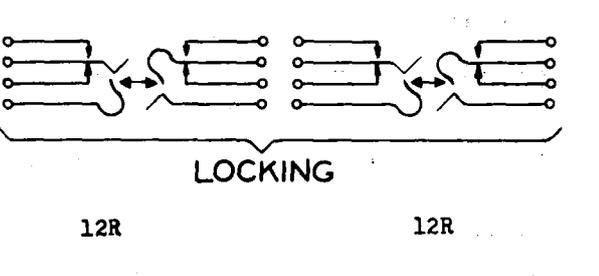
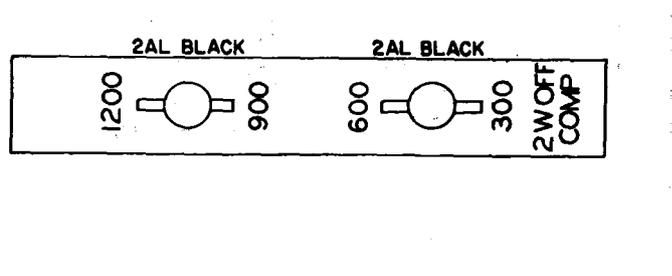
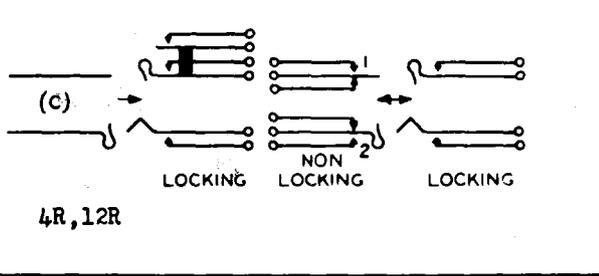
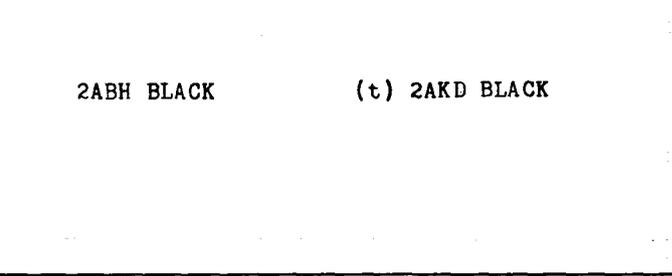
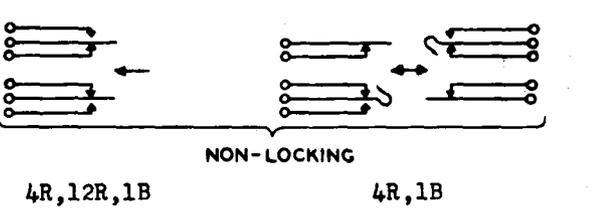
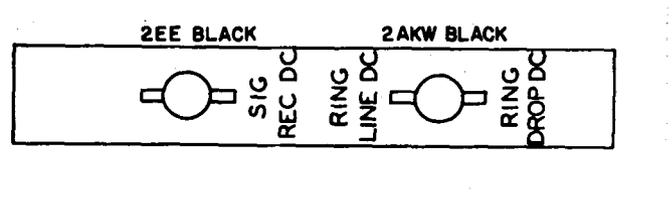
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
16	B1BY	 <p>LOCKING</p> <p>4R, 12R</p>		 <p>2BG BLACK LIST 2GR BLACK DROP LANE</p>		
16	B1EH	 <p>LOCKING</p> <p>4R, 1B, 5B</p>		<p>2WJ BLACK</p>		
16	B1AC	 <p>LOCKING</p> <p>12R, 20B 4R, 12R, 20B</p>		<p>2DP BLACK 2DP BLACK</p>		

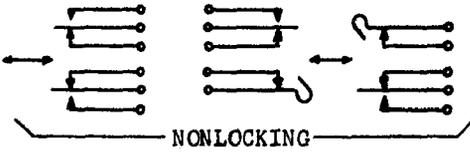
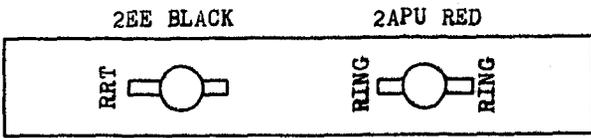
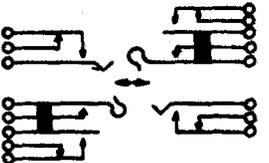
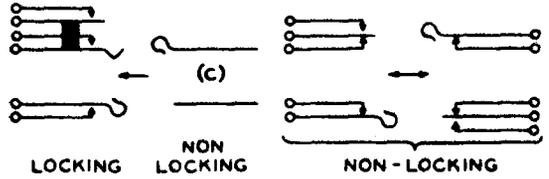
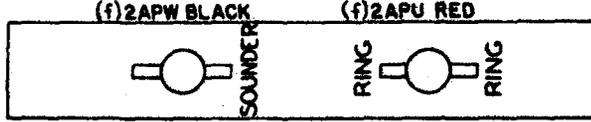
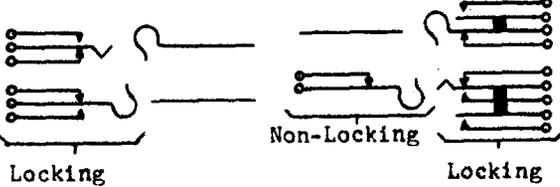
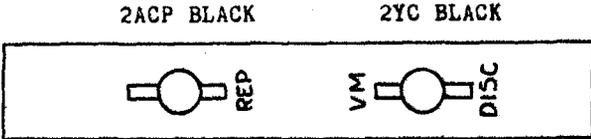
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Oct-1957

Bl Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
16	B1LP	 <p>LOCKING 12R</p> <p>NON-LOCKING 4R, 1B, 23C</p>	 <p>(d)2ACP BLACK REV</p> <p>(d)2ANG BLACK MIL-AMP VOLT 15(3) 75 300 75</p>			
16	B1JR	 <p>LOCKING 12R</p> <p>12R</p>	 <p>2AL BLACK 1200 900</p> <p>2AL BLACK 600 300 2W OFF COMP</p>			
16	B1KG	 <p>(c) LOCKING 4R, 12R</p> <p>NON-LOCKING 1 2</p> <p>LOCKING</p>	 <p>2ABH BLACK</p> <p>(t) 2AKD BLACK</p>			
16	B1KT	 <p>NON-LOCKING 4R, 12R, 1B</p> <p>4R, 1B</p>	 <p>2EE BLACK SIG REC DC</p> <p>2AKW BLACK RING LINE DC RING DROP DC</p>			

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

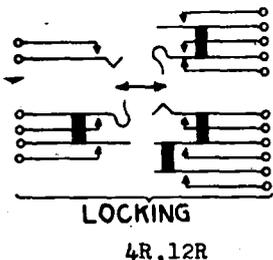
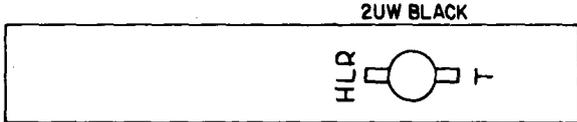
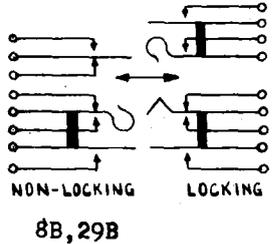
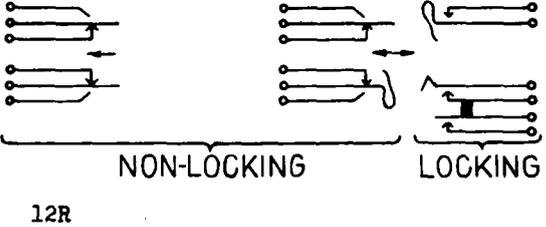
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
16	B1NP	 <p>NONLOCKING</p> <p>4R, 12R, 1B</p>	 <p>2EE BLACK</p> <p>2APU RED</p> <p>RRT</p> <p>RING</p> <p>RING</p>			
16	B1LW	 <p>LOCKING</p> <p>4R, 12R</p>			2ANT BLACK	
16	B1MH	 <p>(c)</p> <p>LOCKING</p> <p>NON LOCKING</p> <p>NON-LOCKING</p> <p>4R, 12R</p>	 <p>(f)2APW BLACK</p> <p>(f)2APU RED</p> <p>SOUNDER</p> <p>RING</p> <p>RING</p>			
17	B1NG	 <p>Locking</p> <p>Non-Locking</p> <p>Locking</p> <p>12R</p> <p>4R, 12R, 2B</p>	 <p>2ACP BLACK</p> <p>2YC BLACK</p> <p>REP</p> <p>VM</p> <p>DISC</p>			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

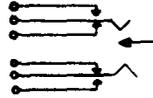
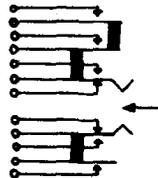
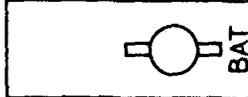
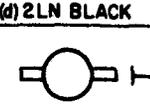
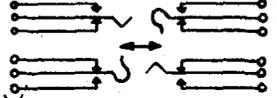
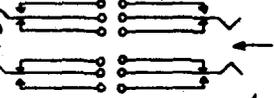
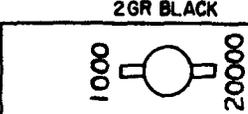
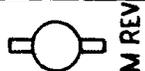
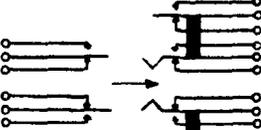
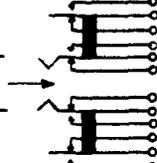
X-75506

Jan 1954

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
17	B1EE	 <p>LOCKING 4R, 12R</p>		 <p>2UW BLACK HLR</p>		
17	B1GK	 <p>NON-LOCKING LOCKING 8B, 29B</p>		<p>2ADA BLACK</p>		
18	B1BG	 <p>NON-LOCKING LOCKING 12R</p>		<p>2F RED</p>	<p>2N BLACK</p>	(a, b)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

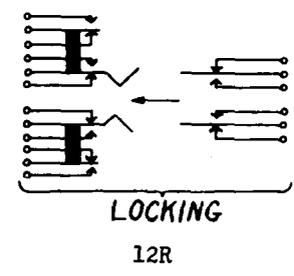
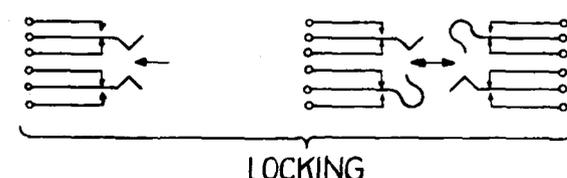
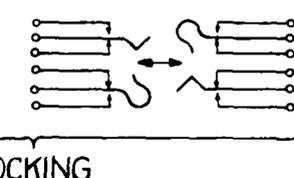
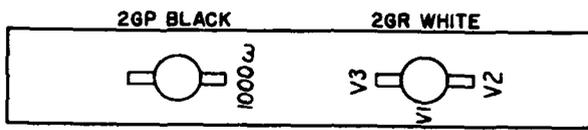
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
18	B1EU	 <p>4R, 12R, 2B</p>	 <p>LOCKING 4R, 12R, 2B</p>	 <p>(d)2A BLACK BAT</p>	 <p>(d)2LN BLACK</p>	
18	B1EW	 <p>4R, 12R, 1B</p>	 <p>LOCKING 4R, 12R, 1B</p>	 <p>2GR BLACK 1000 20000</p>	 <p>2GP BLACK VM REV</p>	
18	B1FG	 <p>4R, 12R</p>	 <p>LOCKING 4R, 12R</p>	<p>2HA BLACK</p>		(dr)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

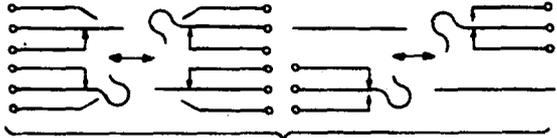
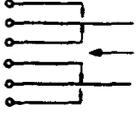
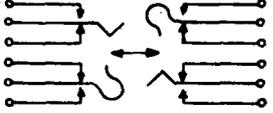
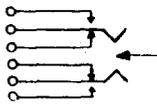
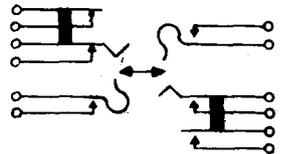
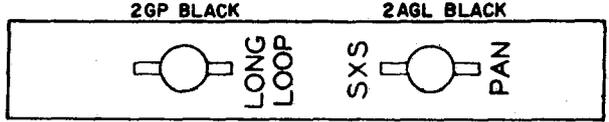
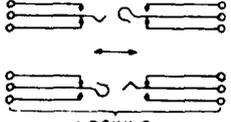
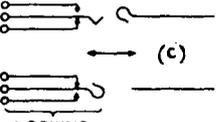
X-75506

Aug 1954

B1 Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
18	B1GE		 <p>LOCKING 12R</p>		2HA RED	(dr)
18	B1HL	 <p>LOCKING</p>	 <p>LOCKING</p>	 <p>2GP BLACK 1000Ω 2GR WHITE V3 V1 V2</p>		

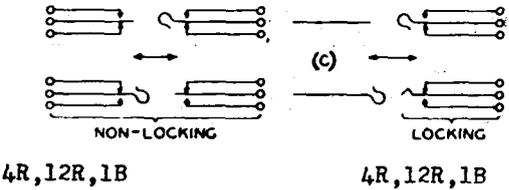
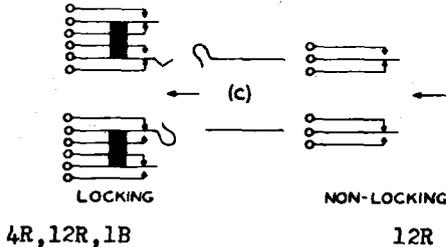
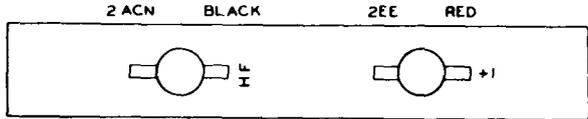
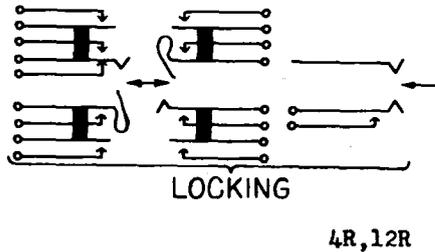
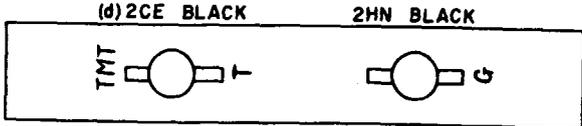
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
18	B1HN	 <p style="text-align: center;">NON-LOCKING</p>		2GY RED	2SU RED	(a)
18	B1HP	 <p>NON-LOCKING 4R, 12R, 2B</p>	 <p>LOCKING 4R, 12R, 2B</p>	2EE RED	2GR BLACK	
18	B1JD	 <p>LOCKING 4R, 12R, 1B</p>	 <p>LOCKING 4R, 12R</p>			(dr)
18	B1ML	 <p>LOCKING 4R, 12R, 1B</p>	 <p>LOCKING 4R, 12R, 1B</p> <p style="text-align: right;">(c)</p>	2GR BLACK	2ABK BLACK	

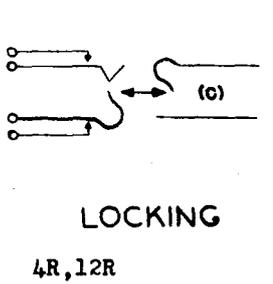
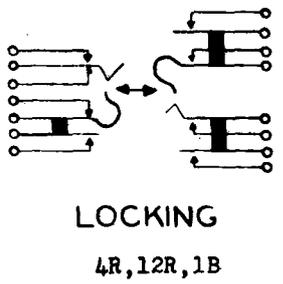
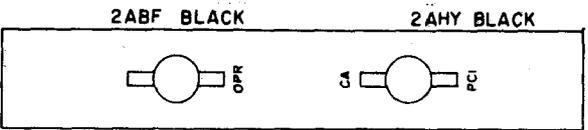
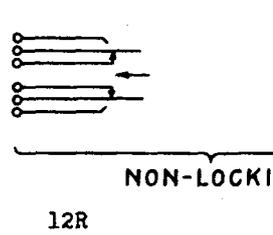
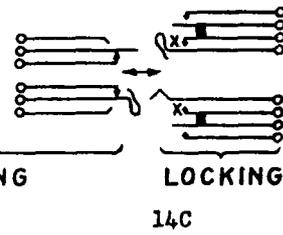
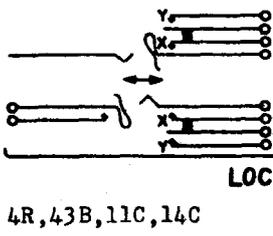
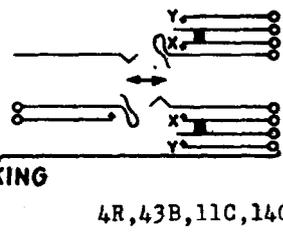
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

B1 Keys (Contd.) - 27/32" wide

CONT. SPCS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
18	B1MM	 <p>NON-LOCKING 4R,12R,1B</p> <p>LOCKING 4R,12R,1B</p>		2JP BLACK	2ABK BLACK	
18	B1MT	 <p>LOCKING 4R,12R,1B</p> <p>NON-LOCKING 12R</p>				
19	B1BN	 <p>LOCKING 4R,12R</p>				

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
19	BLJL	 <p>LOCKING 4R,12R</p>	 <p>LOCKING 4R,12R,1B</p>	 <p>2ABF BLACK 2AHY BLACK</p>		
20	B1AA	 <p>NON-LOCKING 12R</p>	 <p>LOCKING 14C</p>	2F BLACK	2BS BLACK	(a)
20	B1AH	 <p>LOCKING 4R,43B,11C,14C</p>	 <p>LOCKING 4R,43B,11C,14C</p>	2ED RED	2ED RED	

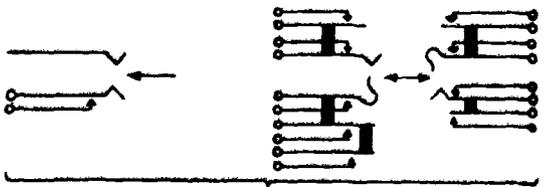
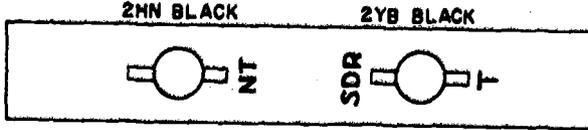
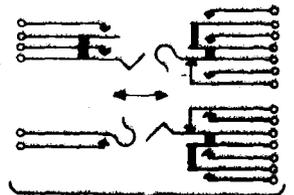
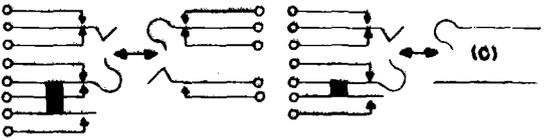
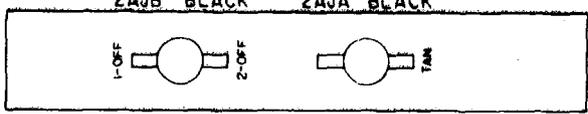
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

Dec 1955

BI Keys (Contd.) - 27/32" wide

CONT. SPCS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
20	B1CC	<p>LOCKING 4R, 12R, 20B</p> <p>(c) NON-LOCKING LOCKING 27B, 5C</p>		2ACK BLACK	2CB BLACK	(a)
20	B1ED	<p>NON-LOCKING 4R</p>		<p>2UU WHITE 2G RED</p> <p>CR CC +I R</p>		(a)

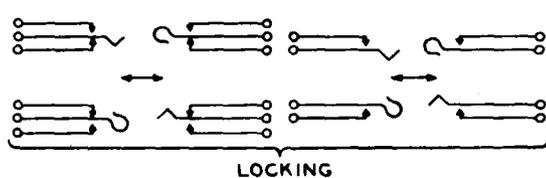
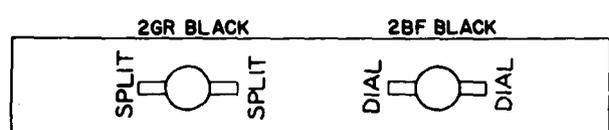
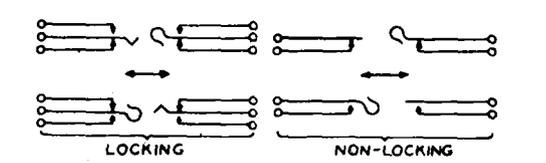
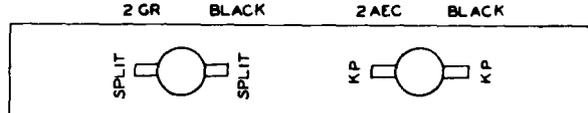
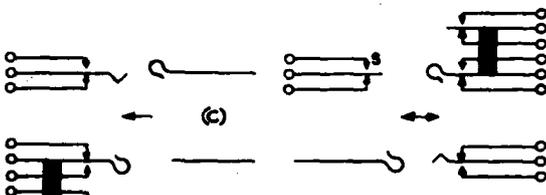
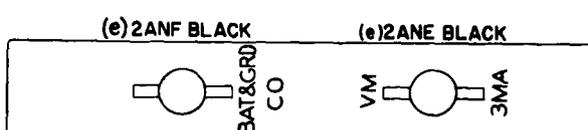
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
20	B1FB	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 12R</p>				
20	B1FU	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 12R</p>		<p style="text-align: center;">2ABB BLACK</p>		
20	B1JM	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 12R, 1B</p> <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 12R, 1B</p>				

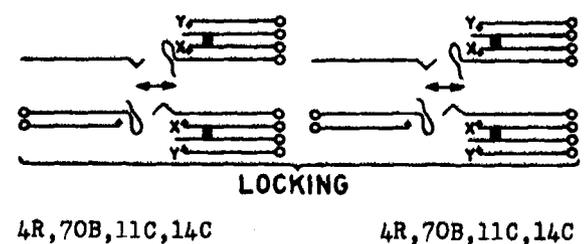
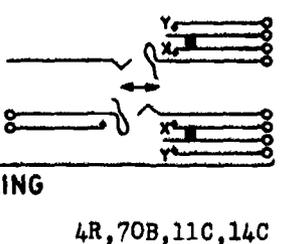
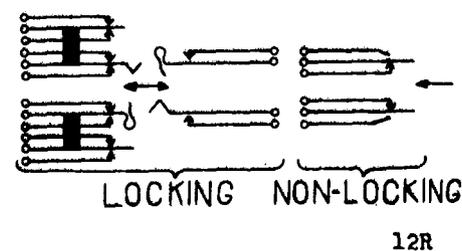
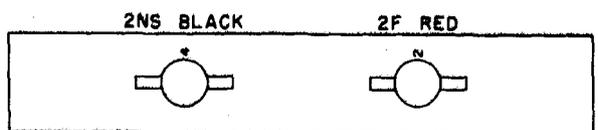
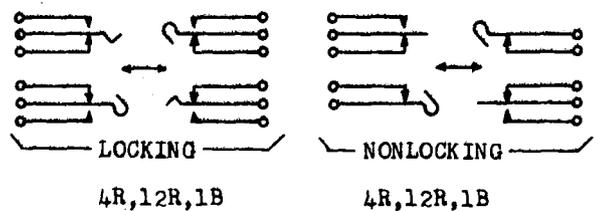
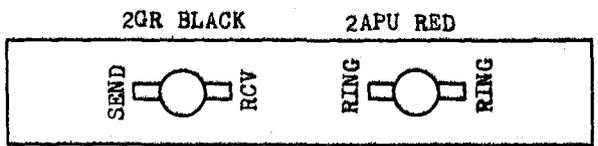
Numbers below schematic refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

Bl Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
20	B1MF	 <p>LOCKING</p> <p>4R,12R,1B 4R,12R</p>	 <p>2GR BLACK 2BF BLACK</p> <p>SPLIT SPLIT DIAL DIAL</p>			
20	B1MJ	 <p>LOCKING NON-LOCKING</p> <p>4R,12R,1B 4R,12R</p>	 <p>2 GR BLACK 2 AEC BLACK</p> <p>SPLIT SPLIT KP KP</p>			
21	B1LR	 <p>LOCKING NON LOCKING LOCKING</p> <p>12R 23C</p>	 <p>(e)2ANF BLACK (e)2ANE BLACK</p> <p>BAT&GRD CO VM 3MA</p>			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

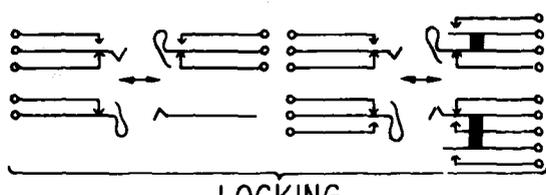
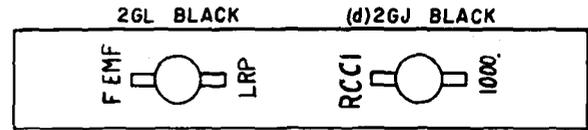
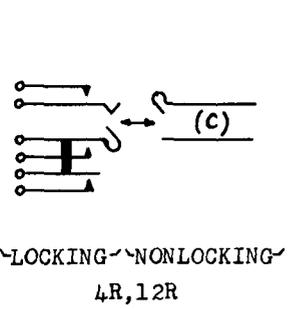
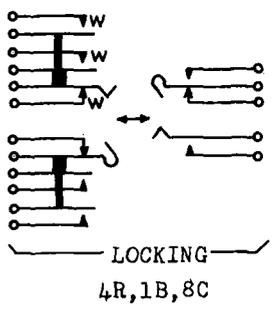
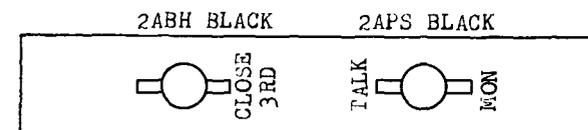
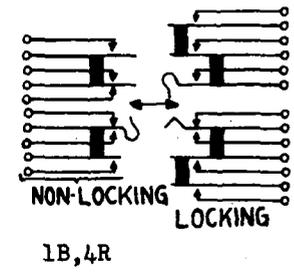
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
22	B1AG	 <p>LOCKING 4R, 70B, 11C, 14C</p>	 <p>FRONT 4R, 70B, 11C, 14C</p>	2ED BLACK	2ED BLACK	
22	B1CU	 <p>LOCKING NON-LOCKING 12R</p>		 <p>2NS BLACK 2F RED</p>		
22	B1NR	 <p>LOCKING NONLOCKING 4R, 12R, 1B 4R, 12R, 1B</p>		 <p>2QR BLACK 2APU RED SEND RCV RING RING</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

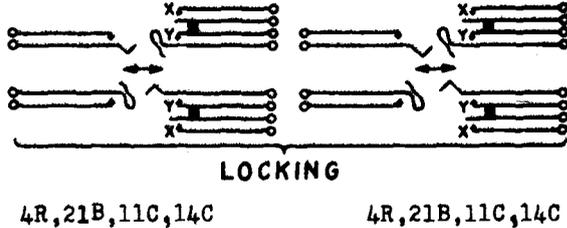
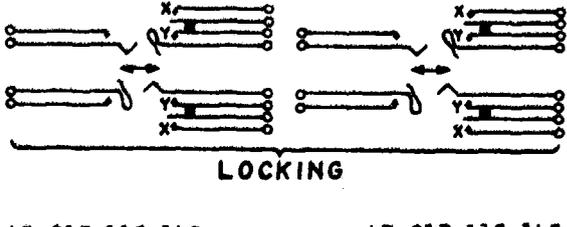
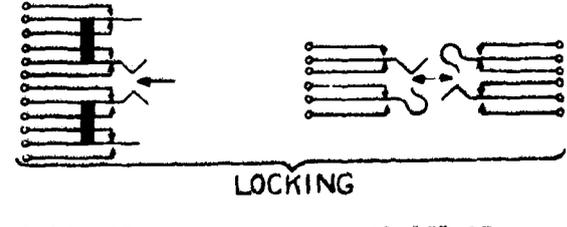
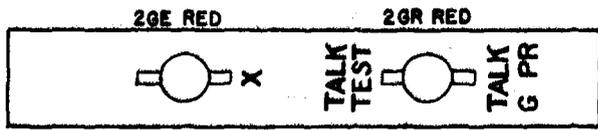
X-75506

April 1961

Bl Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
23	B1BD					
23	B1NT					
23	B1EM					

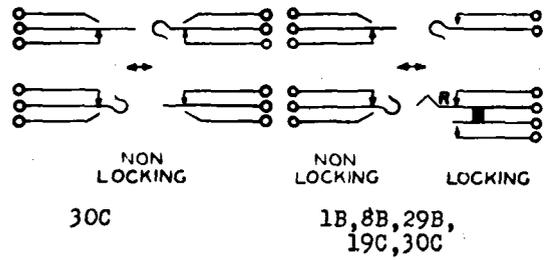
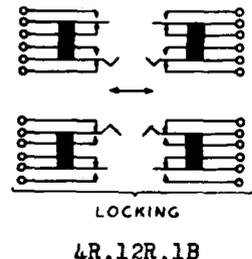
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
24	B1G	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 21B, 11C, 14C 4R, 21B, 11C, 14C</p>		2AC BLACK	2AC BLACK	
24	B1H	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 21B, 11C, 14C 4R, 21B, 11C, 14C</p>		2AC RED	2AC RED	
24	B1HC	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 12R, 2B 4R, 12R, 2B</p>				

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

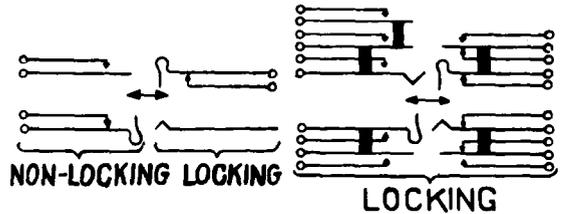
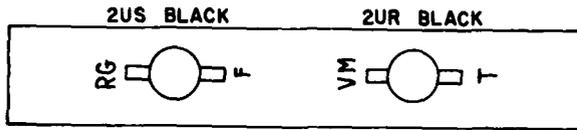
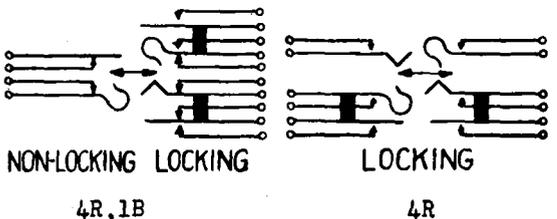
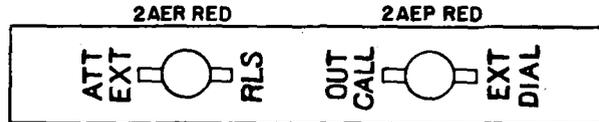
Dec 1955

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
24	B1LD	 <p>NON LOCKING NON LOCKING LOCKING</p> <p>30C 1B, 8B, 29B, 19C, 30C</p>		2G BLACK	2B BLACK	(a)
24	B1MY	 <p>LOCKING</p> <p>4R, 12R, 1B</p>			2DH BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

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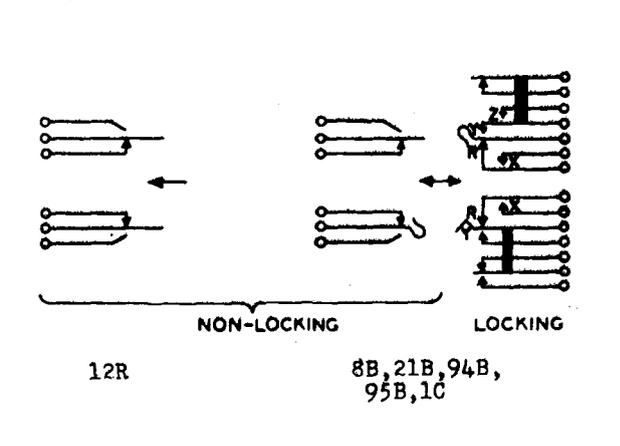
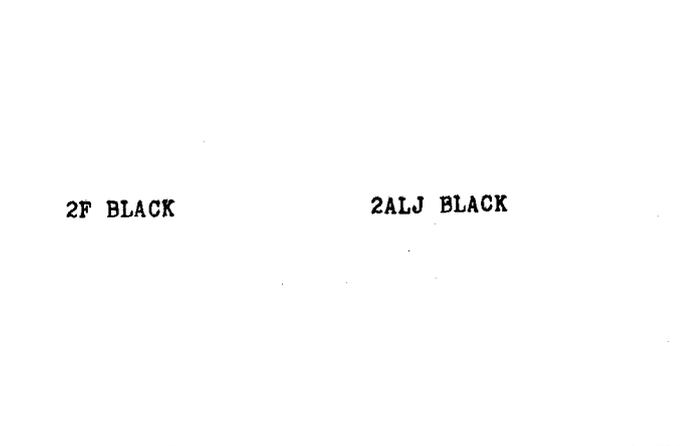
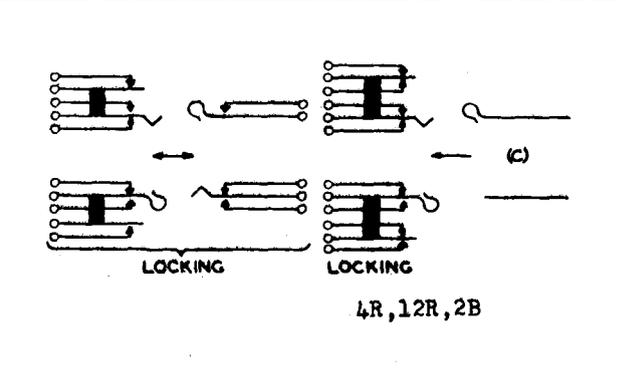
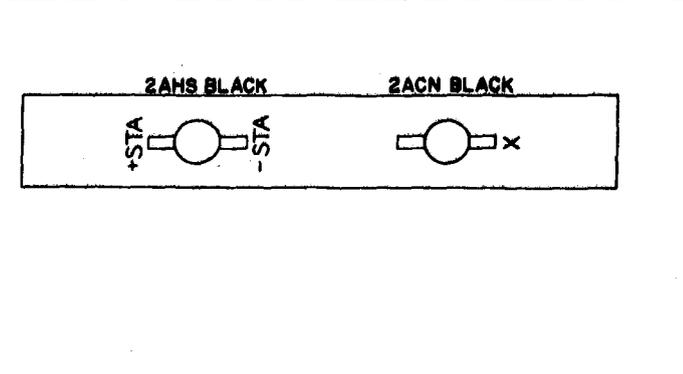
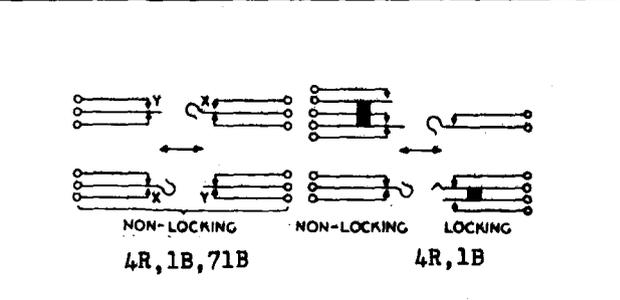
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
26	BLEC	 <p>NON-LOCKING LOCKING</p> <p>LOCKING</p>	 <p>2US BLACK</p> <p>2UR BLACK</p> <p>RG F</p> <p>VM T</p>			
26	BLGY	 <p>NON-LOCKING LOCKING</p> <p>LOCKING</p> <p>4R, 1B</p> <p>4R</p>	 <p>2AER RED</p> <p>2AEP RED</p> <p>ATT EXT RLS</p> <p>OUT CALL EXT DIAL</p>			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Dec 1955

B1 Keys (Contd.) - 27/32" wide

245

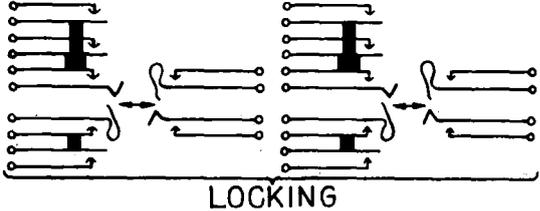
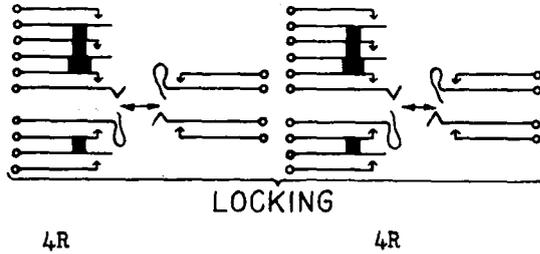
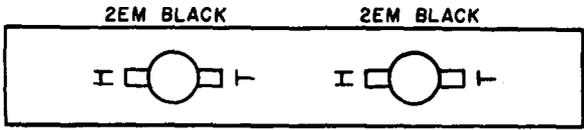
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
26	B1KW	 <p>NON-LOCKING 12R</p> <p>LOCKING 8B, 21B, 94B, 95B, 1C</p>	 <p>2F BLACK</p> <p>2ALJ BLACK</p>	(a)		
26	B1MD	 <p>LOCKING 4R, 12R, 2B</p> <p>LOCKING 4R, 12R, 2B</p>	 <p>2AHS BLACK</p> <p>2ACN BLACK</p>			
26	B1MN	 <p>NON-LOCKING 4R, 1B, 71B</p> <p>NON-LOCKING 4R, 1B</p> <p>LOCKING 4R, 1B</p>	 <p>2JP BLACK</p> <p>2CT BLACK</p>			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

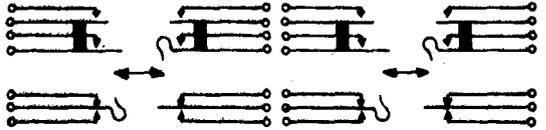
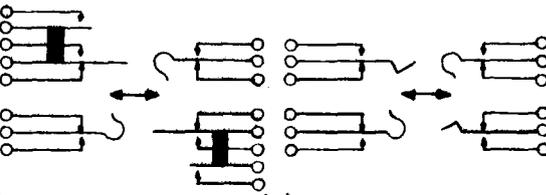
X-75506

Aug 1954

B1 Keys (Contd.) - 27/32" wide

CONT: SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
28	B1AL			2EM BLACK	2EM BLACK	
28	B1AM					

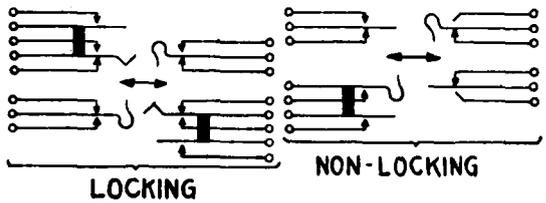
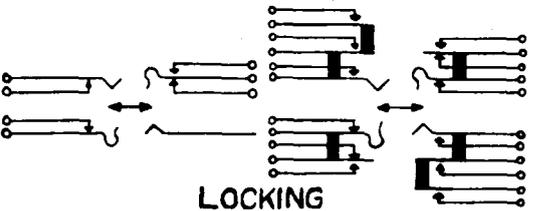
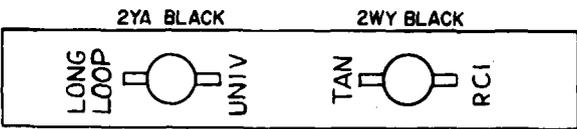
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
28	B1EP	 <p style="text-align: center;">NON-LOCKING</p>		2WK RED	2WK RED	
28	B1JB	 <p style="text-align: center;">NON-LOCKING LOCKING</p> <p style="text-align: center;">4R,1B 4R,1B</p>		2AW RED	2GR BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Aug 1954

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
29	B1EF	 <p>LOCKING NON-LOCKING</p>		2AP BLACK	2WG RED	(a)
29	B1ES	 <p>LOCKING</p> <p>12R 4R,12R,2B</p>		 <p>2YA BLACK 2WY BLACK</p> <p>LONG LOOP UNIV TAN RCI</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
29	B1FT	<p>NON-LOCKING LOCKING</p>		2GY RED	2AAN BLACK	(a)
29	B1GW	<p>LOCKING LOCKING</p> <p>4R, 12R, 2B 4R, 2B</p>		<p>26H BLACK 26C BLACK</p> <p>REP TRANS REDUCE GAIN REP CUT-OUT</p>		(dr)
29	B1HU	<p>LOCKING NON-LOCKING</p> <p>4R, 12R, 71B 4R, 12R, 2B, 23B</p>		(t) 2AFM BLACK	2AAT RED	

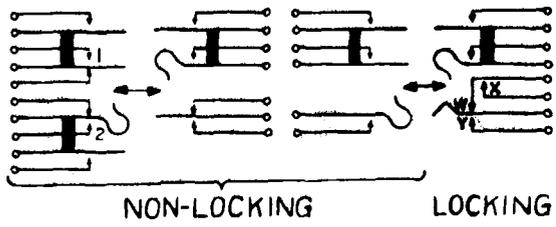
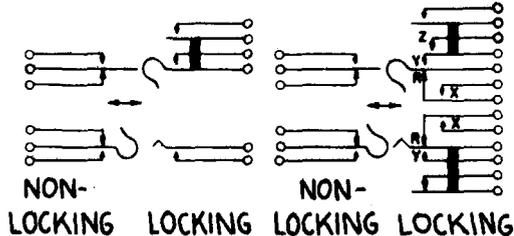
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Dec 1955

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
31	BLEK	<p>NON-LOCKING LOCKING</p> <p>12R, 5B</p>		2GY RED	2WH RED	(a)
31	BIHM	<p>LOCKING NON-LOCKING LOCKING</p> <p>12R 4R, 12R, 2B, 60B</p>		<p>2UB RED 2AFC BLACK</p> <p>VMS G VMB WB</p>		

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
31	B1HR	 <p>NON-LOCKING LOCKING</p> <p>4R, 61B, 14C</p>		(t) 2AFE RED	2AFD BLACK	
31	B1JS	 <p>NON-LOCKING LOCKING NON-LOCKING LOCKING</p> <p>8B 8B, 21B, 94B, 95B, 1C</p>		2AJH BLACK	2AJF BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

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Dec 1955

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
32	BIAB	<p>NON-LOCKING LOCKING NON-LOCKING LOCKING</p> <p>8B, 47B, 57B 8B, 47B, 57B</p>	2DK BLACK	2DK BLACK	(a)	
32	BIFL	<p>LOCKING</p> <p>4R, 1B, 23C 4R, 1B, 23C</p>	<p>2AP RED 2AP RED</p> <p>(X) ENGRAVED AS SPECIFIED IN ORDER</p>			

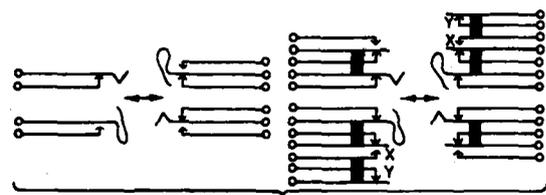
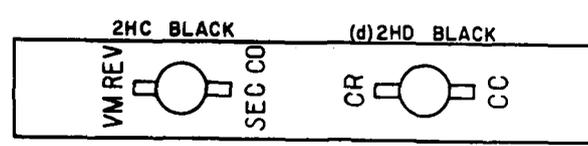
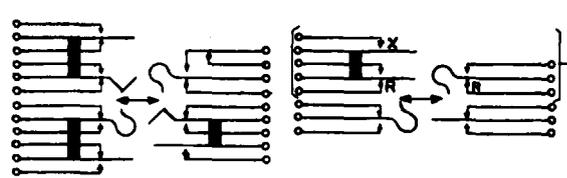
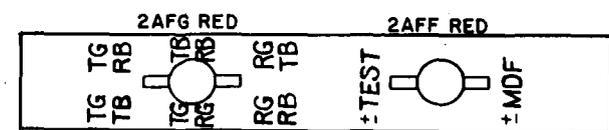
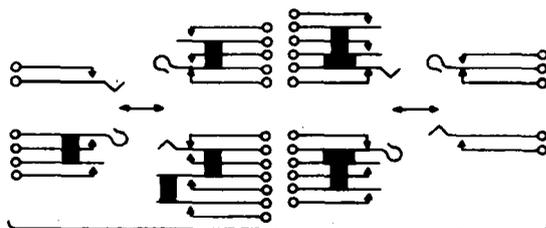
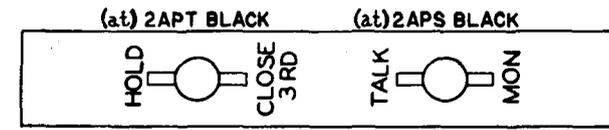
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
32	B1KY	<p>NON LOCKING LOCKING NON LOCKING LOCKING</p> <p>8B, 21B, 94B, 95B, 1C</p>		2RB BLACK	2ALJ BLACK	(a)
33	B1BA	<p>LOCKING</p> <p>12R 12R</p>		<p>2GD BLACK 2ACN BLACK</p> <p>EM BAT EM GEN</p>		
33	B1KK	<p>NON LOCKING LOCKING</p> <p>4R, 12R, 2B 4R, 2B</p>		2AHN RED	2AKM BLACK	

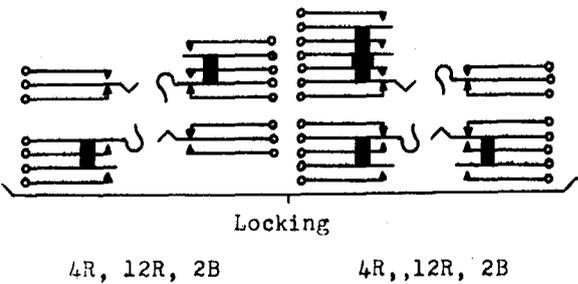
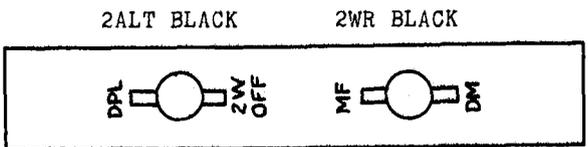
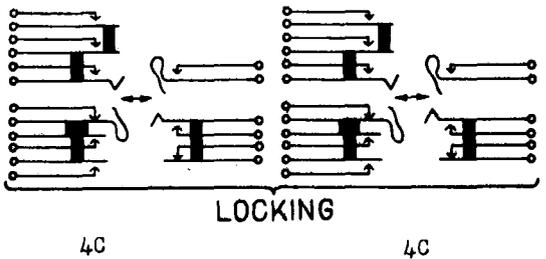
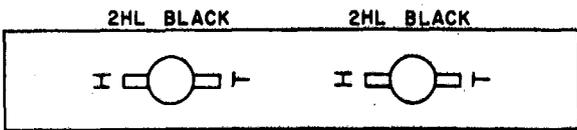
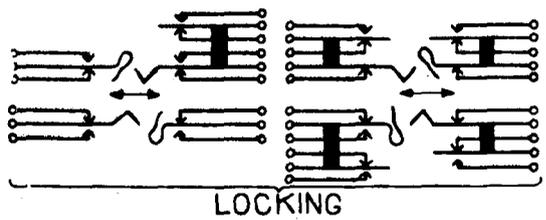
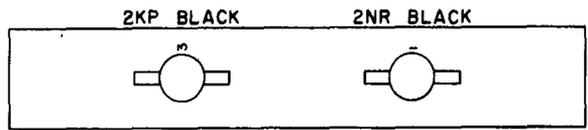
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

B1 Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
34	BIAP	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">19B,4C</p>				
35	BIHE	 <p style="text-align: center;">LOCKING NON LOCKING</p> <p style="text-align: center;">4R,12R,2B 2B,36B,60B, 14C,30C</p>				
35	BI MG	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R,1B 4R,1B</p>				

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SFGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
35	BlNF	 <p style="text-align: center;">Locking</p> <p style="text-align: center;">4R, 12R, 2B 4R, 12R, 2B</p>	 <p style="text-align: center;">2ALT BLACK 2WR BLACK</p> <p style="text-align: center;">DPL MF DM</p>			
36	BlBT	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4C 4C</p>	 <p style="text-align: center;">2HL BLACK 2HL BLACK</p> <p style="text-align: center;">I I</p>			
37	BlCT	 <p style="text-align: center;">LOCKING</p>	 <p style="text-align: center;">2KP BLACK 2NR BLACK</p> <p style="text-align: center;">n</p>			

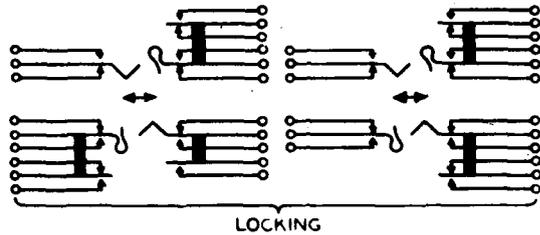
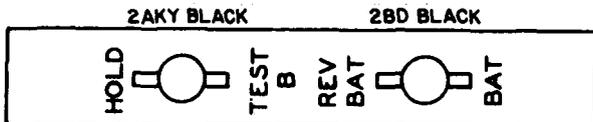
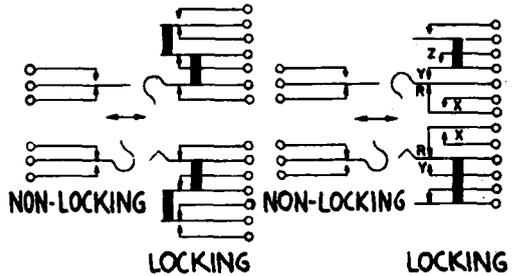
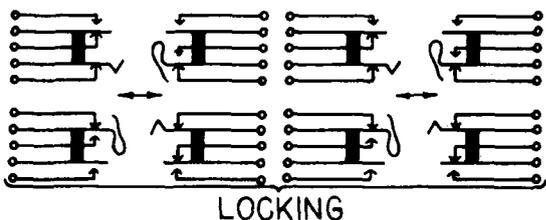
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
37	BIHY	<p>NON-LOCKING LOCKING 4R, 2B, 8C</p>		(ap) 2AGE RED	(ap) 2ACD BLACK	
38	BIGS	<p>NON-LOCKING LOCKING 4R, 12R, 1B 4R, 12R</p>		2ABY RED	2ABB BLACK	

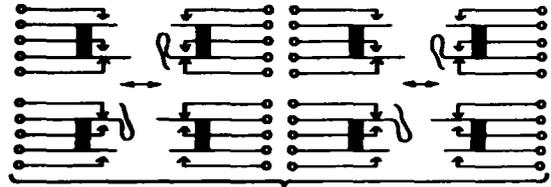
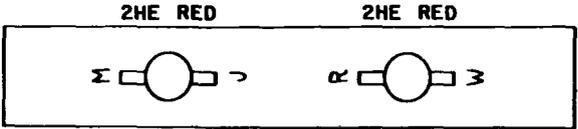
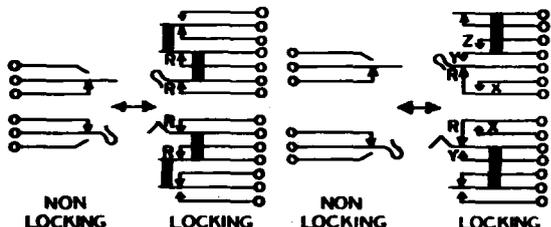
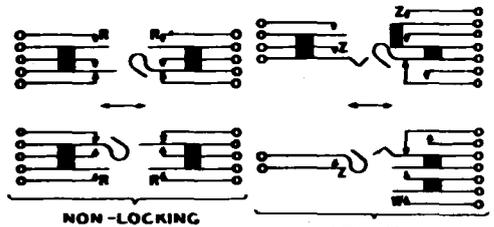
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
38	B1KL	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 12R, 1B 4R, 12R, 1B</p>		 <p style="text-align: center;">2AKY BLACK 2BD BLACK</p> <p style="text-align: center;">HOLD TEST B REV BAT BAT</p>		
39	B1JU	 <p style="text-align: center;">NON-LOCKING NON-LOCKING</p> <p style="text-align: center;">LOCKING LOCKING</p> <p style="text-align: center;">4R, 1B, 8B, 22C 8B, 21B, 94B, 95B, 1C</p>		<p style="text-align: center;">2AJG BLACK 2AJF BLACK</p>		
40	B1AS	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 1B 4R, 1B</p>		<p style="text-align: center;">2BL BLACK 2BL BLACK</p>		

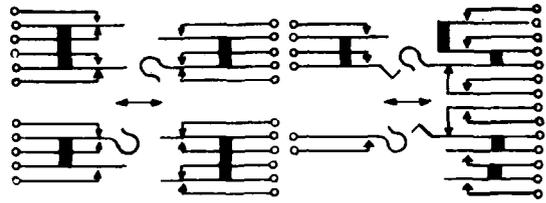
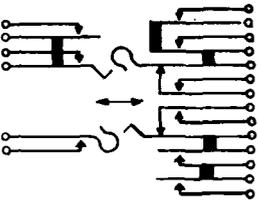
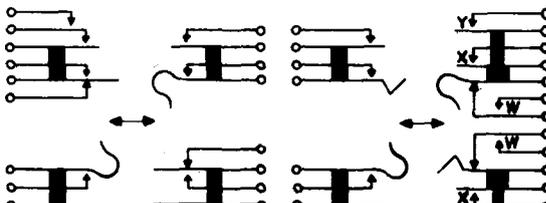
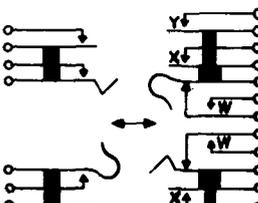
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

BI Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
40	B1BH	 <p style="text-align: center;">NON-LOCKING</p>				(k)
40	B1LA	 <p style="text-align: center;">NON LOCKING LOCKING NON LOCKING LOCKING</p> <p style="text-align: center;">8B, 29R, 19C, 22C, 30C 8B, 21B, 94B, 95B, 1C</p>		<p style="text-align: center;">2AJD BLACK 2ALJ BLACK</p>		(a)
40	B1MW	 <p style="text-align: center;">NON-LOCKING LOCKING</p> <p style="text-align: center;">36B 4R, 21C</p>		<p style="text-align: center;">2HE RED 2ABB BLACK</p>		

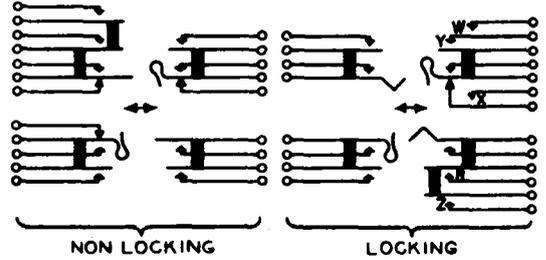
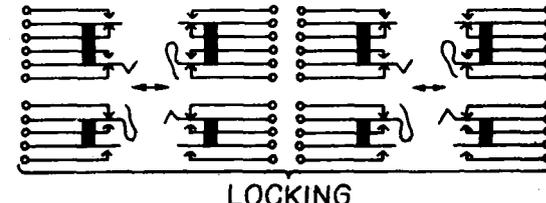
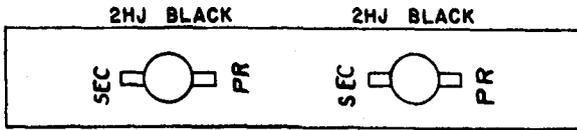
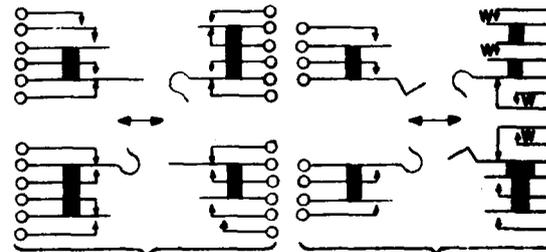
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
42	B1GT	 <p>NON-LOCKING 4R,12R,1B</p>	 <p>LOCKING 4R,12R,1B</p>	2AEM RED	2ABB BLACK	
42	B1JK	 <p>NON-LOCKING 4R,12R,2B</p>	 <p>LOCKING 4R,55B,26C</p>	2AHN RED	2AHM BLACK	

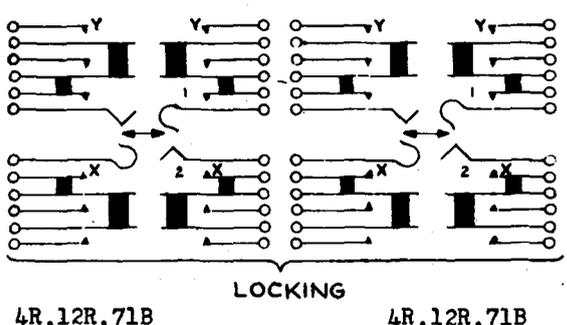
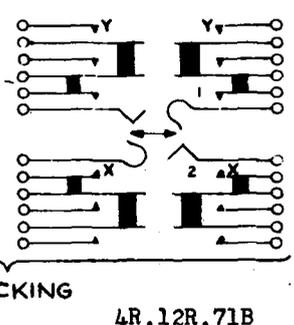
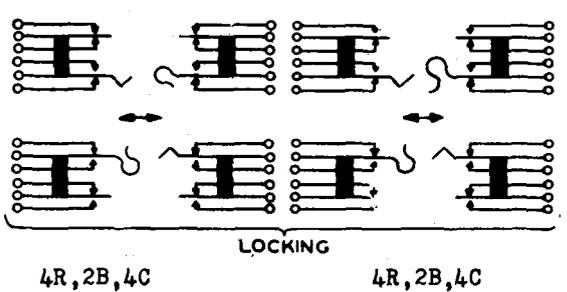
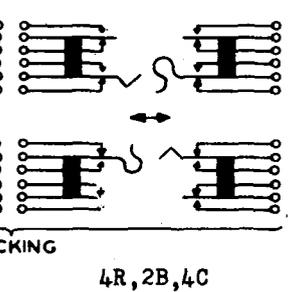
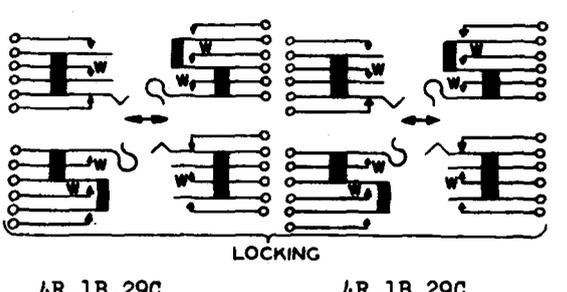
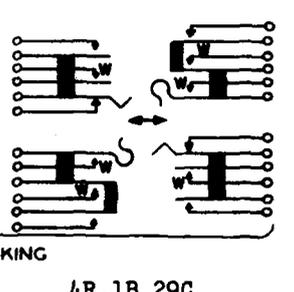
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

Bl Keys (Contd.) - 27/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
42	B1KE	 <p>NON LOCKING LOCKING</p> <p>4R, 97B, 11C, 14C, 19C</p>		2AJW RED	2AJU BLACK	
44	B1BS	 <p>LOCKING</p>		 <p>2HJ BLACK 2HJ BLACK</p> <p>SEC PR SEC PR</p>		
46	B1JA	 <p>NON-LOCKING LOCKING</p> <p>4R, 12R, 1B, 14B 4R, 12R</p>		2AGC RED	2AGB BLACK	

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
48	B1HW	 <p>LOCKING</p> <p>4R,12R,71B</p>	 <p>LOCKING</p> <p>4R,12R,71B</p>	(t) 2AFM BLACK	(t) 2AFM BLACK	
48	B1MB	 <p>LOCKING</p> <p>4R,2B,4C</p>	 <p>LOCKING</p> <p>4R,2B,4C</p>	(d) 2APG BLACK	(d) 2APG BLACK	
48	B1MC	 <p>LOCKING</p> <p>4R,1B,29C</p>	 <p>LOCKING</p> <p>4R,1B,29C</p>	(d) 2APH BLACK	(d) 2APH BLACK	

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April 1961

BI Keys (Contd.) - 27/32" Wide

262A

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
48	B1NS	<p>LOCKING 4R, 2B, 4C</p>	<p>LOCKING 4R, 2B, 4C</p>	<p>2APG BLACK 2APG BLACK</p> <p>DIAL LINE DIAL DROP TEST MON</p>		

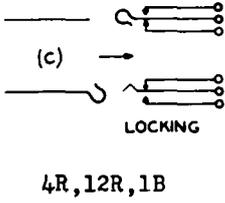
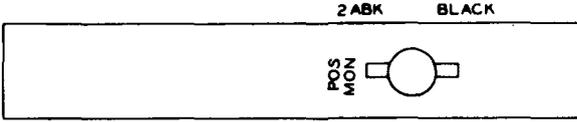
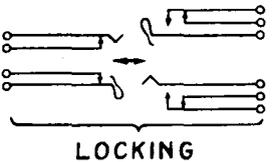
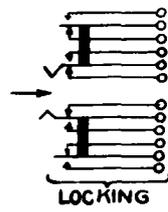
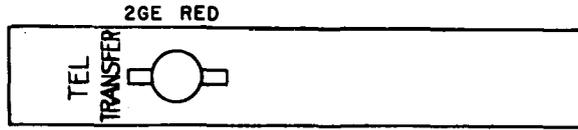
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 For information referred to in () see Ref. Notes, page 103



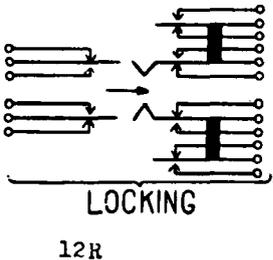
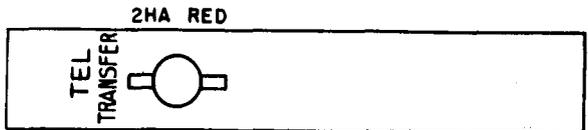
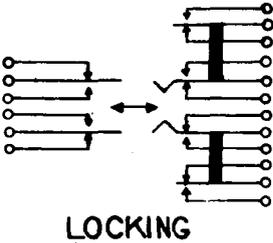
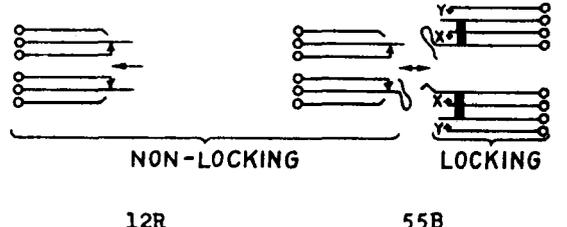
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Jan 1954

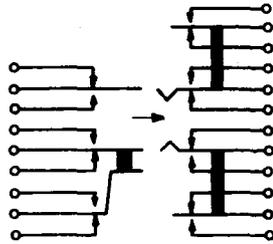
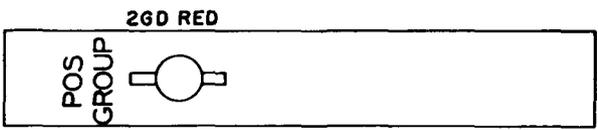
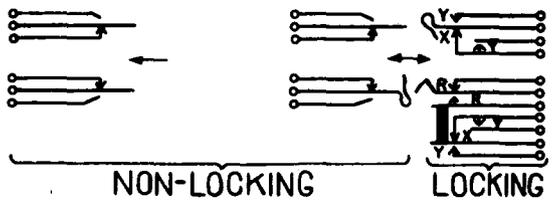
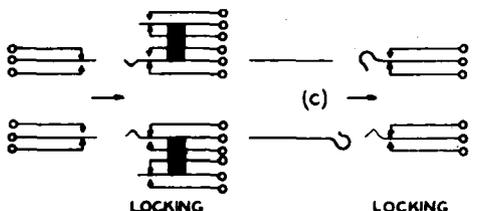
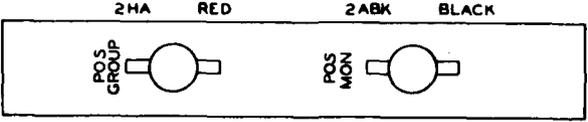
B1 Keys (Contd.) - 1-1/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
6	B1MR		 <p>(c)</p> <p>LOCKING</p> <p>4R, 12R, 1B</p>	 <p>2 ABK BLACK</p> <p>POS MON</p>		
10	B1F	 <p>LOCKING</p>		<p>2AS RED</p>		
12	B1AD	 <p>LOCKING</p> <p>12R</p>		 <p>2GE RED</p> <p>TEL TRANSFER</p>		

Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
18	B1CL	 <p>LOCKING 12R</p>		 <p>TEL TRANSFER 2HA RED</p>		
18	B1JH	 <p>LOCKING 4R, 12R, 1B</p>		 <p>POS GROUP 2HA RED</p>		(dr)
20	B1W	 <p>NON-LOCKING 12R</p> <p>LOCKING 55B</p>		2F BLACK	2TD BLACK	(a)

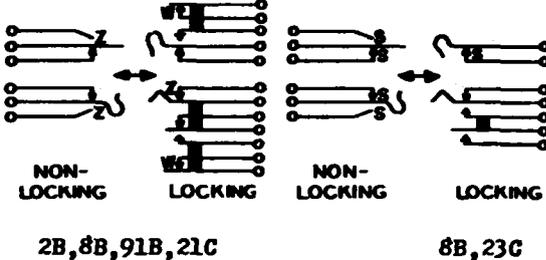
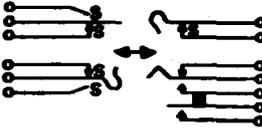
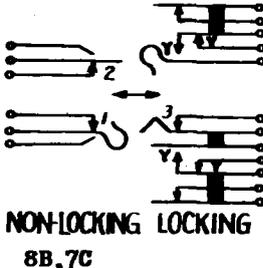
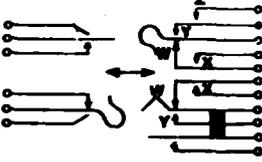
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CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
21	B1JP	 <p>LOCKING 4R, 12R, 1B</p>				(dr)
23	B1CY	 <p>NON-LOCKING 12R</p> <p>LOCKING 36B, 39B, 9C</p>		2F BLACK	2ADS BLACK	(a)
24	B1MS	 <p>LOCKING 4R, 12R, 1B</p> <p>(c)</p> <p>LOCKING 4R, 12R, 1B</p>				

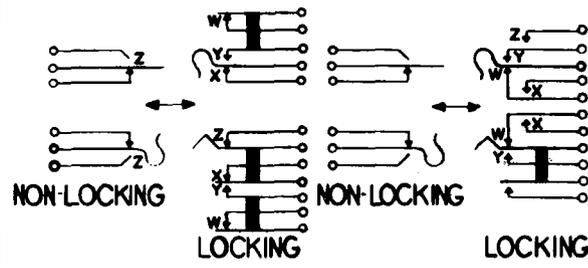
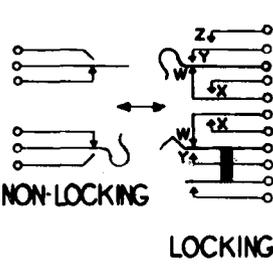
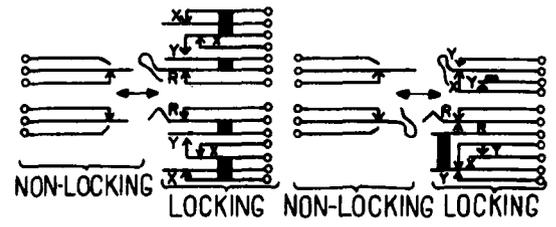
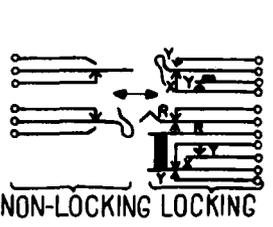
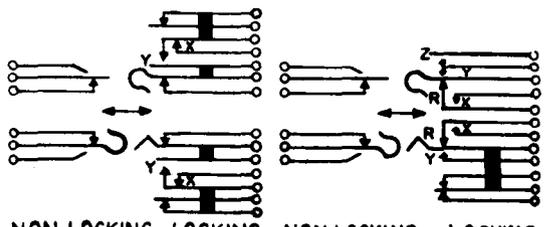
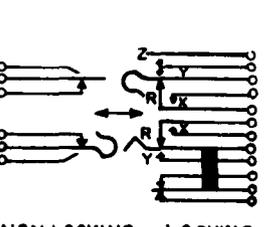
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Dec 1955

BI Keys (Contd.) - 1-1/32" wide

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
31	BIIC	 <p>NON-LOCKING LOCKING NON-LOCKING LOCKING</p> <p>2B, 8B, 91B, 21C</p>	 <p>NON-LOCKING LOCKING</p> <p>8B, 23C</p>	2AGH BLACK	2ALM BLACK	(a)
35	BIHA	 <p>NON-LOCKING LOCKING</p> <p>8B, 7C</p>	 <p>NON-LOCKING LOCKING</p> <p>8B, 21B, 59B, 1C</p>	(aa) 2AEY BLACK	2AEW BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

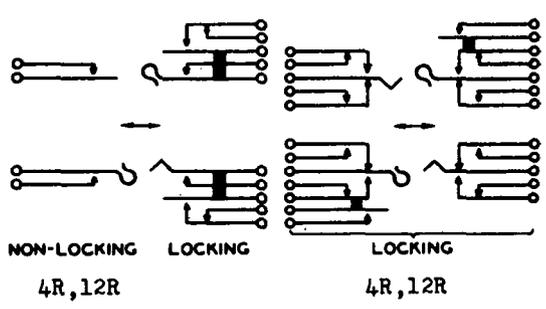
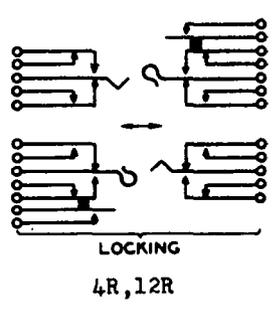
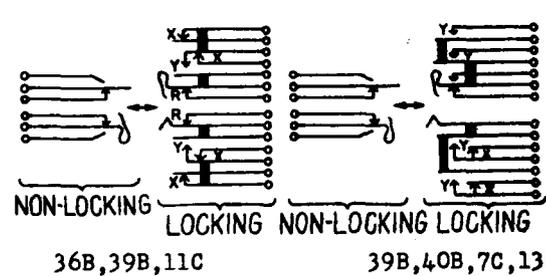
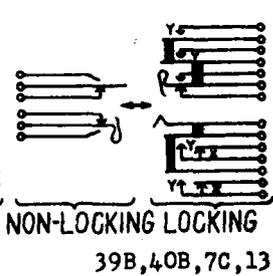
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
35	B1JC	 <p>NON-LOCKING LOCKING</p> <p>8B,76B,21C</p>	 <p>NON-LOCKING LOCKING</p> <p>8B,79B,80B,1C</p>	2AGH BLACK	2AEW BLACK	(a,ar)
37	B1CW	 <p>NON-LOCKING LOCKING</p> <p>36B,39B,7C,12C</p>	 <p>NON-LOCKING LOCKING</p> <p>36B,39B,9C</p>	2HP BLACK	2ADS BLACK	(a)
38	B1GU	 <p>NON-LOCKING LOCKING</p> <p>8B,7C,12C</p>	 <p>NON-LOCKING LOCKING</p> <p>8B,21B,42B, 78B,1C</p>	2HP BLACK	2AEK BLACK	(a,ar)

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

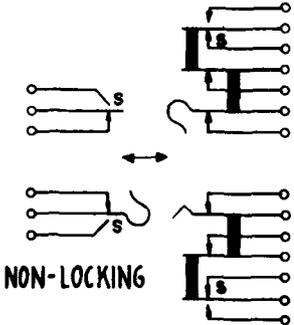
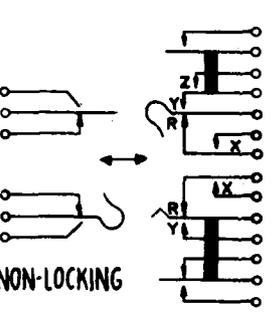
X-75506

Jan 1954

BI Keys (Contd.) - 1-1/32" wide

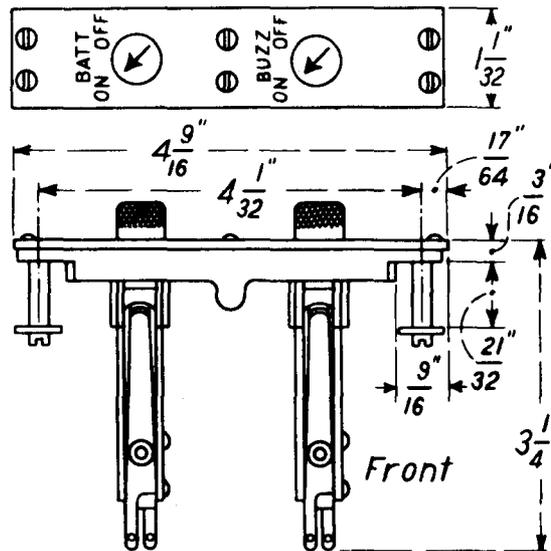
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
38	B1LT	 <p>NON-LOCKING 4R,12R LOCKING 4R,12R</p>	 <p>LOCKING 4R,12R</p>	2ANY BLACK	2ANW BLACK	
40	B1BU	 <p>NON-LOCKING 36B,39B,11C LOCKING 39B,40B,7C,13C</p>	 <p>NON-LOCKING 39B,40B,7C,13C LOCKING 39B,40B,7C,13C</p>	2HP BLACK	2ADR BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		REF. NOTES
		REAR	FRONT	REAR	FRONT	
40	B1JN	 <p>NON-LOCKING</p> <p>LOCKING</p> <p>1B, 8B, 23C</p>	 <p>NON-LOCKING</p> <p>LOCKING</p> <p>8B, 96B, 1C</p>	2AJD BLACK	2AJD BLACK	(a)

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

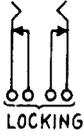
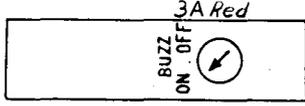
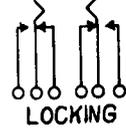
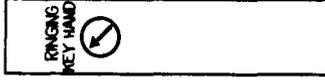
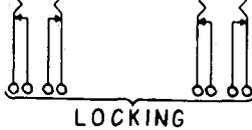
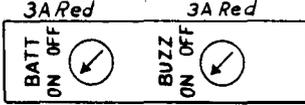
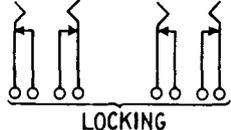
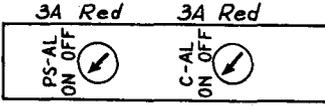
B2-TYPE KEYS



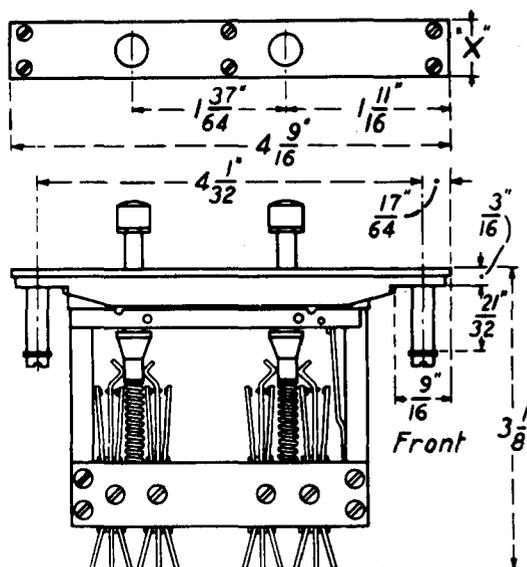
B2A Also General Design and Dimensions of B2 Type

These keys are equipped with one or two rotating button key units as indicated under the individual keys.

X-75506

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	
		REAR	FRONT	REAR	FRONT
4	B2D				
6	B2J				
8	B2A				
8	B2F				

B3-TYPE KEYS

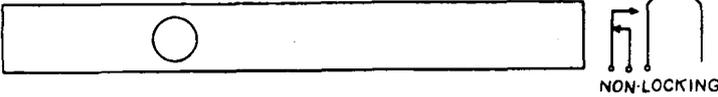
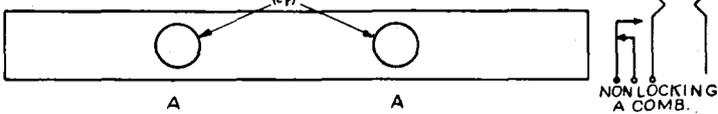
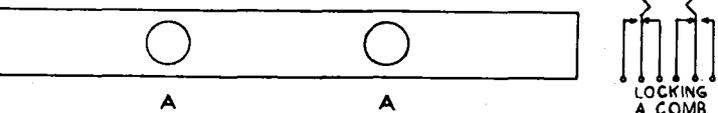
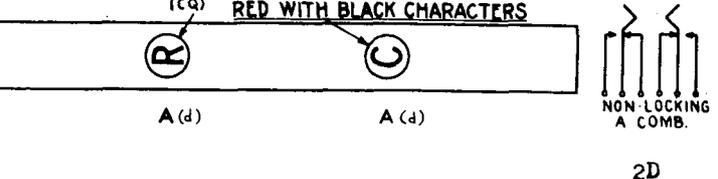


B3A1 Also General Design and Dimensions of B3 Type

These keys are equipped with one or two push buttons as indicated under individual code numbers.

Locking push buttons lock in a fully depressed position and are released by the operation of the other (locking) push button.

X-75506

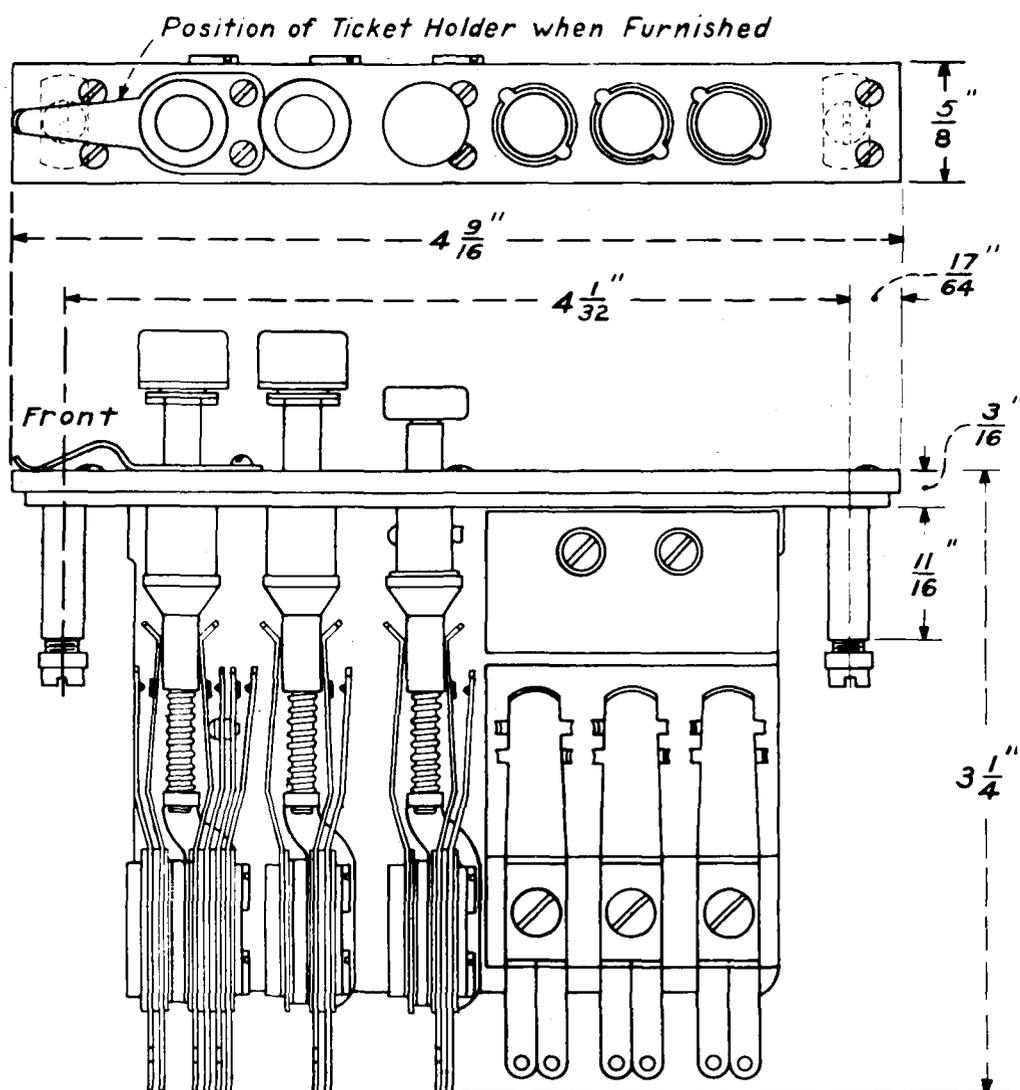
CONT. SPGS.	CODE*	TOP VIEW AND SCHEMATICS	DIM. X
3	B3D1 B3D2 B3D3	 <p>NON-LOCKING</p>	9/16
6	B3E1 B3E2 B3E3	 <p>NON-LOCKING A COMB.</p>	27/32
12	B3A1 B3A2 B3A3	 <p>LOCKING A COMB.</p>	9/16
12	B3C1 B3C2 B3C3	 <p>RED WITH BLACK CHARACTERS</p> <p>NON-LOCKING A COMB.</p> <p>2D</p>	9/16

* For all codes button color is: 1 - Red,
2 - White, 3 - Black, unless otherwise
indicated.
2D - Normally closed X contacts shall break
before normally closed Y contacts break.
(d) - No. 2 metal contacts.

(cp) - 1 - Front button red, rear button black;
2 - Front button white, rear button red;
3 - Front button black, rear button white.
(cq) - 1 - Return button red, black character;
2 - Return button white, black character;
3 - Return button black, white character.



B7-TYPE KEYS



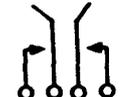
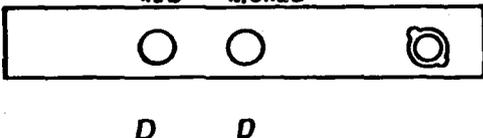
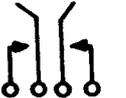
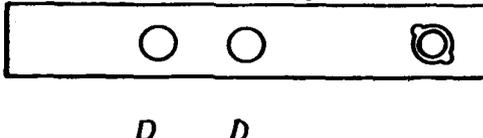
X-75506

B7E Also General Design and Dimensions of B7 Type

These keys are equipped with nonlocking push buttons (three maximum) and sockets for No. 2-type lamps (three maximum). They are equipped with ticket holders as indicated under individual code numbers.



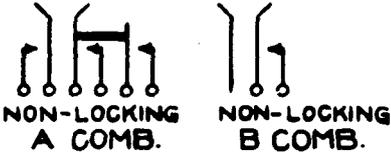
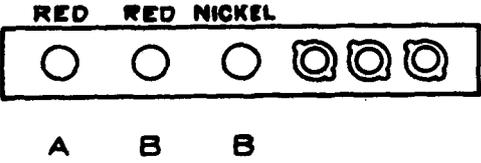
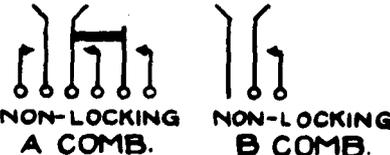
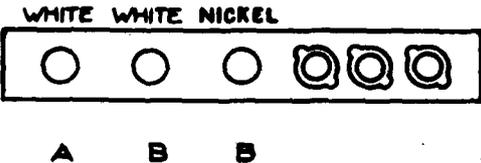
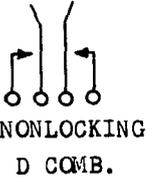
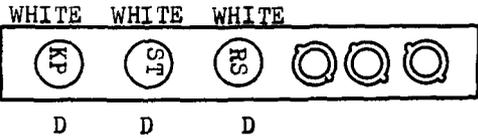
X-75506

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
8	B7N	 <p>NON-LOCKING D COMB.</p>	 <p>RED NICKEL</p> <p>D D</p>
8	B7P	 <p>NON-LOCKING D COMB.</p>	 <p>WHITE NICKEL</p> <p>D D</p>

Dec 1955

B7 Keys (Contd.)

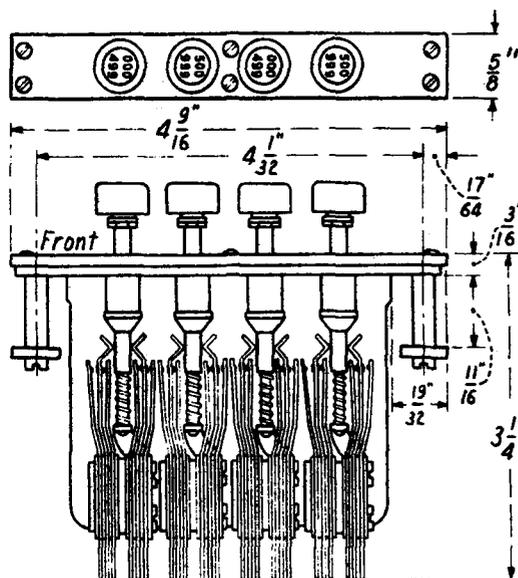
279

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
10	B7E (by)		
10	B7G (by)		
12	B7R*		

(by) - Has ticket holder at front.

* 27/32" wide.

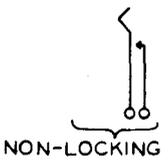
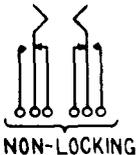
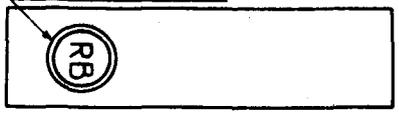
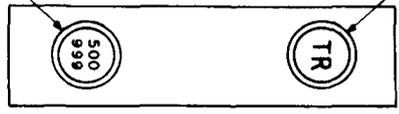
B8-TYPE KEYS



B8B Also General Design And Dimensions of B8 Type

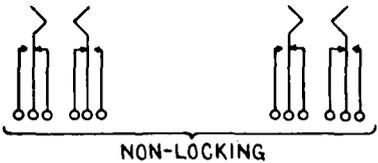
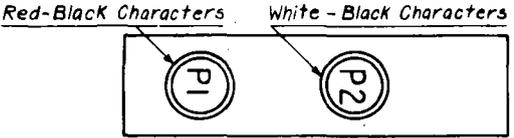
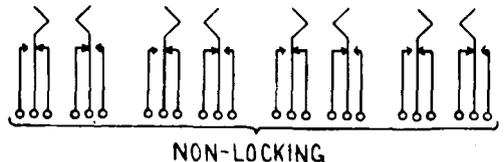
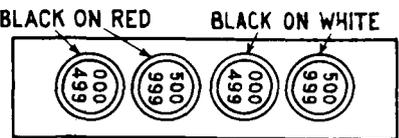
These keys are equipped with nonlocking push buttons (four maximum).

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CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
2	B8E	 <p>NON-LOCKING</p>	<p>WHITE - BLACK CHARACTERS</p> 
6	B8C	 <p>NON-LOCKING</p>	<p>Red - Black Characters</p> 
8	B8F	 <p>NON-LOCKING</p>	<p>BLACK-WHITE CHARACTERS WHITE - BLACK CHARACTERS</p> 

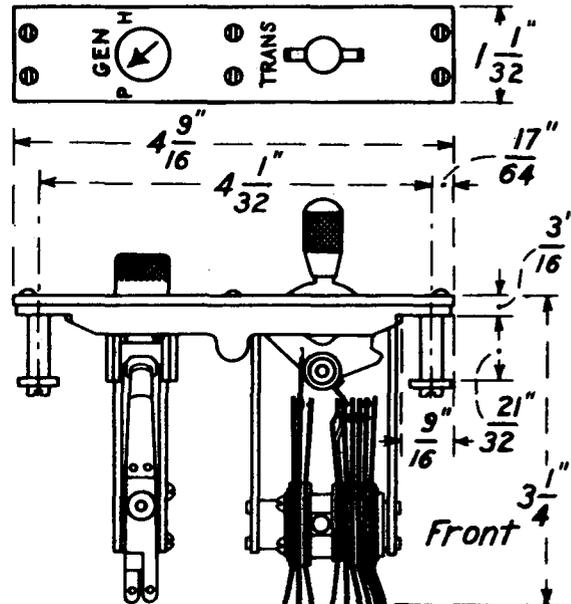
Jan 1954

B8 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
12	B8D		
24	B8B		



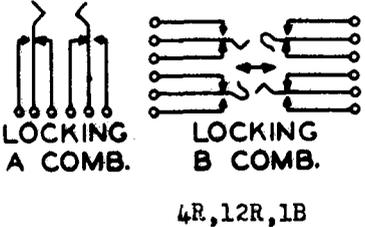
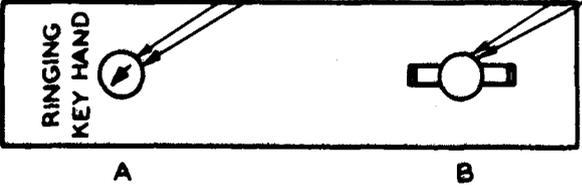
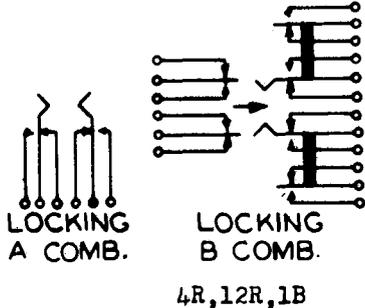
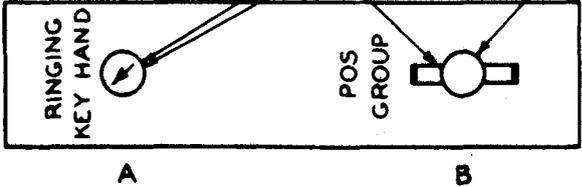
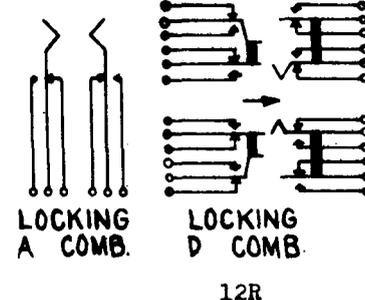
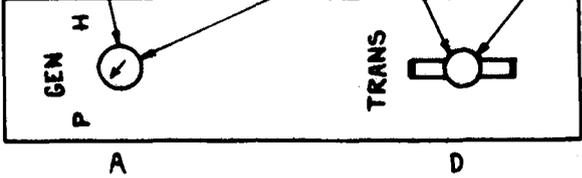
B9-TYPE KEYS



B9C Also General Design and Dimensions of B9 Type

These keys are equipped with one lever-type key unit and one rotating button key unit.

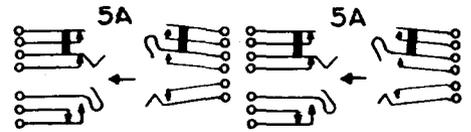
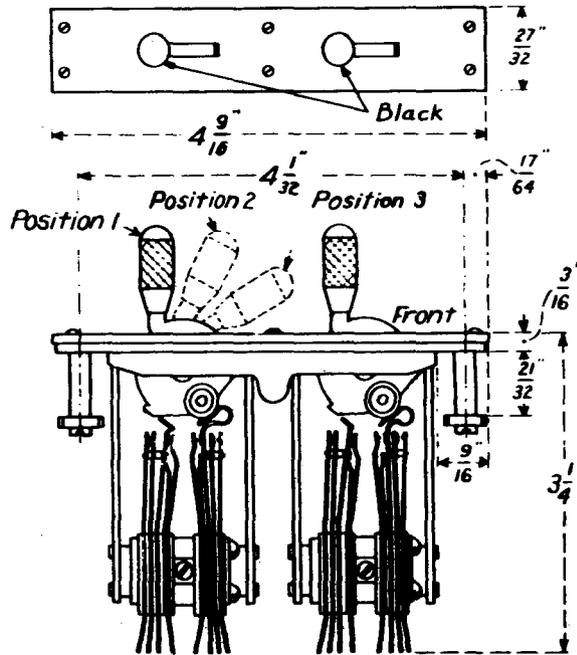
X-75506

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
18	B9E	 <p>LOCKING A COMB. LOCKING B COMB. 4R, 12R, 1B</p>	<p><i>Red Background</i> <i>3B Key Unit</i> <i>Black Character</i> <i>2GR Key Unit</i> <i>Black</i></p>  <p>RINGING KEY HAND A B</p>
24	B9D (dr)	 <p>LOCKING A COMB. LOCKING B COMB. 4R, 12R, 1B</p>	<p><i>Red-Black Character</i> <i>3B-2HA Key Units</i> <i>Black</i></p>  <p>RINGING KEY HAND A POS GROUP B</p>
30	B9C (dr)	 <p>LOCKING A COMB. LOCKING D COMB. 12R</p>	<p><i>Red-Black Character</i> <i>3B-2SH Key Units</i> <i>Black</i></p>  <p>GEN H P A TRANS D</p>

4R - Standard sequence requirement need not apply.
12R - Standard nonclick requirement need not apply.

1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
(dr) - Certain operating springs follow lever (which operates in one direction only).

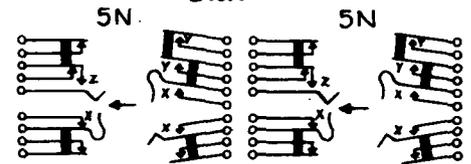
B10-TYPE KEYS



SCHEMATIC FOR POSITION 1

All positions are locking

B10A



SCHEMATIC FOR POSITION 1

All positions are locking

B10B

X-75506

These keys are equipped with two 3-position 1-way key units. A No. 38A shield can be used with these keys.

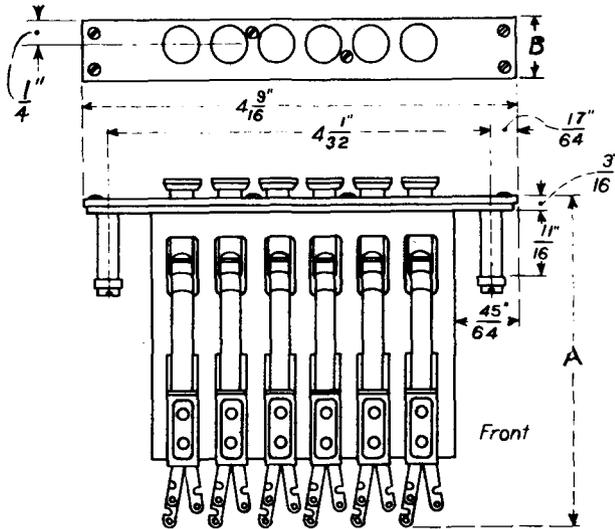
The following exceptions to standard requirements apply to the B10A and B10B keys.

6B - X contacts shall break before Y contacts break.

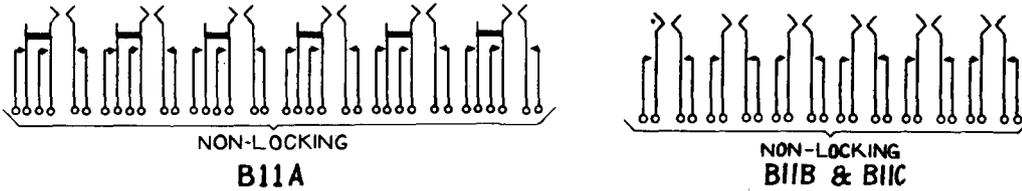
7B - X contacts shall break before Z contacts make.

5C - Standard nonclick requirement applies only to Y contacts.

B11-TYPE KEYS



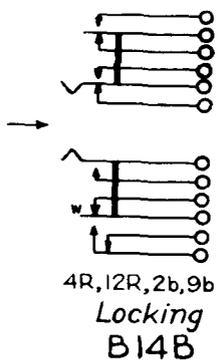
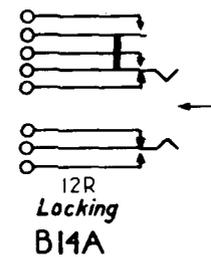
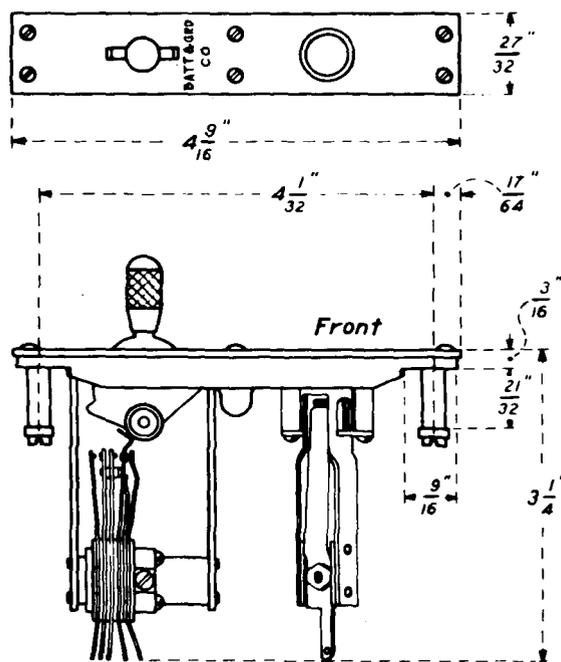
B11A Also General Design and Dimensions of B11 Type



These keys are equipped with six nonlocking push buttons. Unengraved red push buttons are furnished unless otherwise specified.

<u>Code</u>	<u>Dimension (Inches)</u>	
	<u>A</u>	<u>B</u>
B11A	3-3/8	5/8
B11B	3-1/4	5/8
B11C	3-1/4	1/2

BL4-TYPE KEYS



X-75506

BL4A Also General Design and Dimensions of BL4 Type

These keys are equipped with a lever-type key unit and a lamp socket for a No. 2-type lamp cap. The BL4B key has No. 2 metal contacts.

The following exceptions to standard requirements apply as indicated:

4R - Standard sequence requirement does not apply.

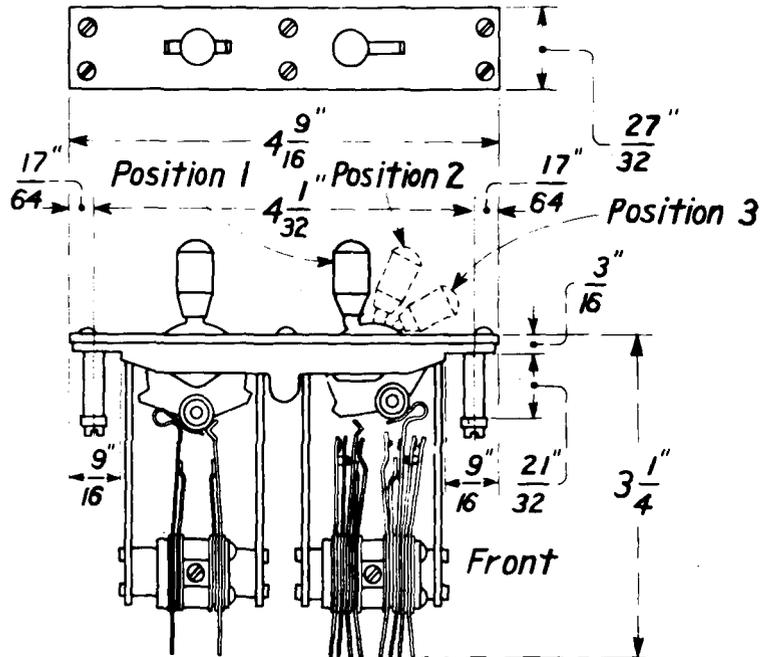
12R - Standard nonclick requirement does not apply.

2B - Normally closed contact X shall break before normally closed contact Y breaks.

9B - W contacts need not break before open contacts make.

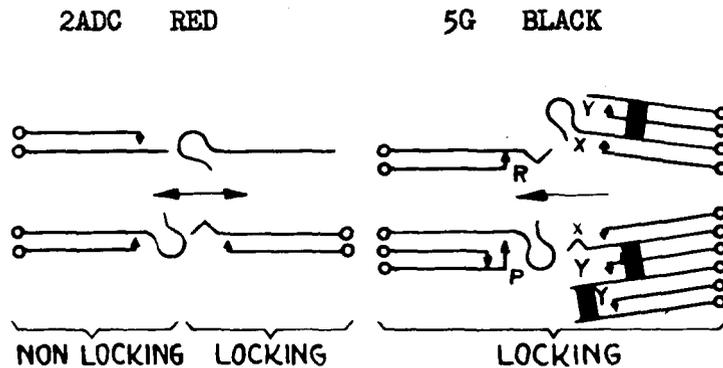


B15H KEY



This key is equipped with two lever-type key units, one of which is a 3-position one-way unit. In the latter unit, position 1 as shown in the illustration and the schematic represents the normal position. A No. 38 shield can be used with this key.

X-75506

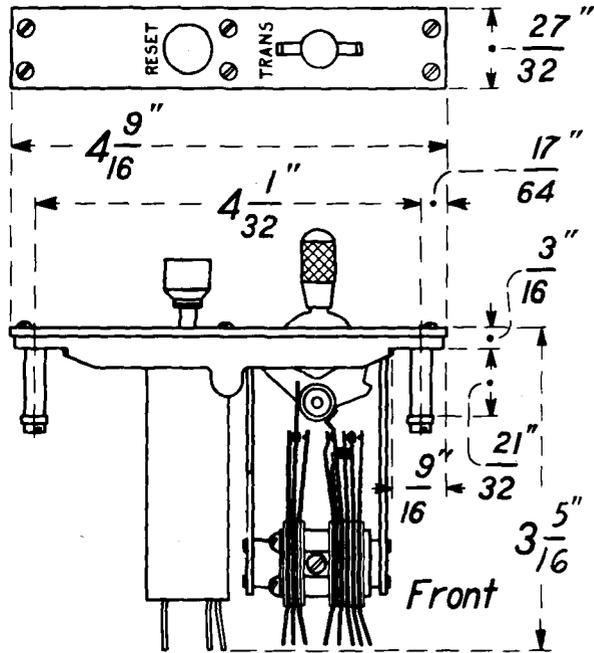


1BB

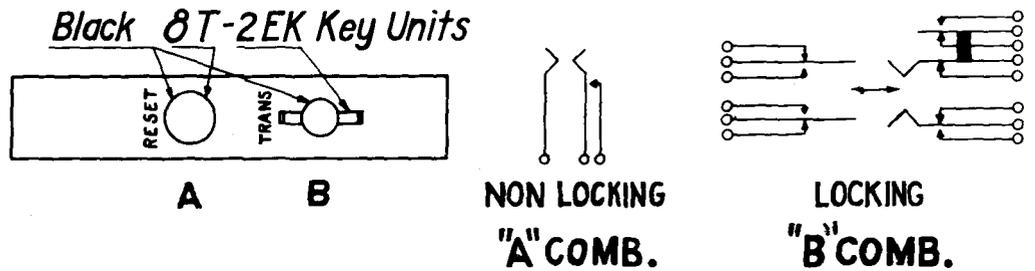
1BB- Y contacts shall break before X contacts break and P contact shall make before R contact breaks.



BL7A KEY



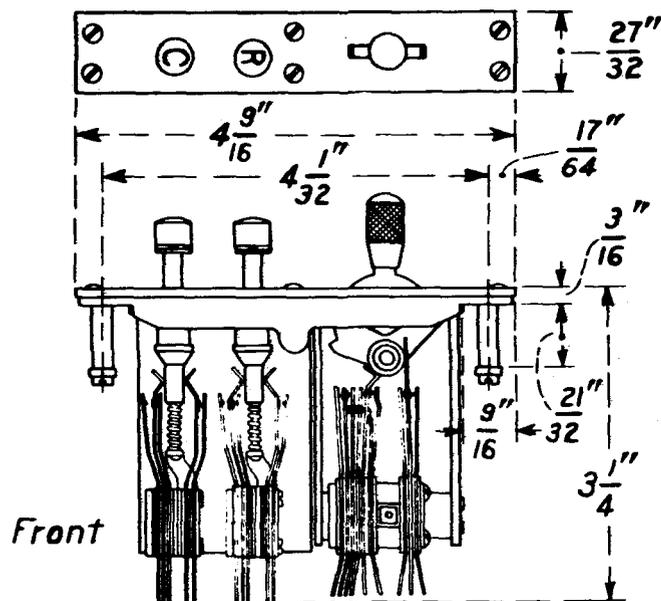
X-75506



This key is equipped with one lever-type key unit and one push button. Standard nonclick requirement does not apply to B combination.



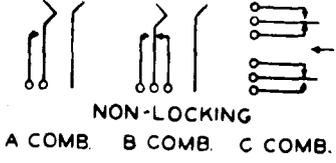
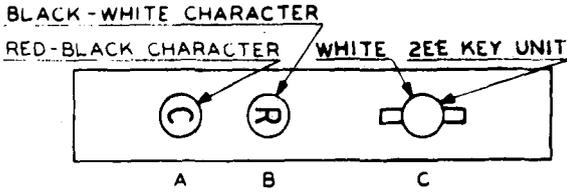
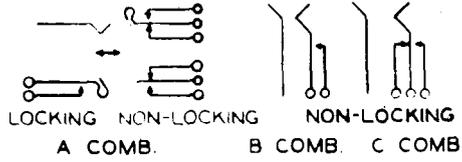
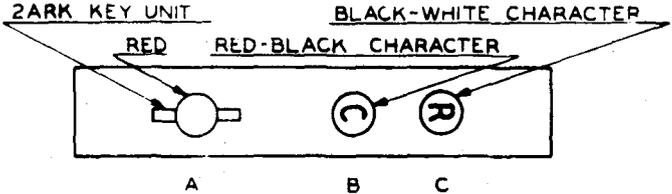
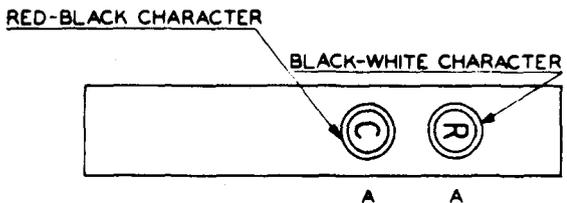
BL8-TYPE KEYS



BL8A Also General Design and Dimensions of BL8 Type

These keys are equipped with lever-type key units and nonlocking push buttons as indicated under the individual code numbers. The position of the units in the various codes varies as indicated. Maximum equipment is shown in the illustration.

X-75506

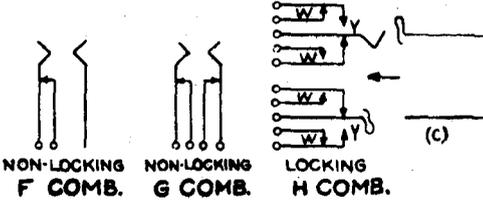
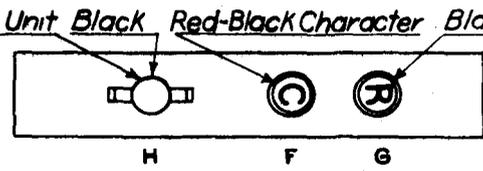
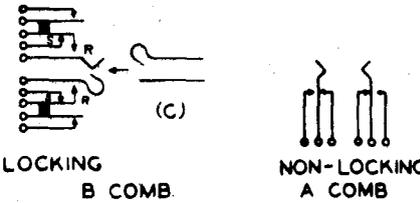
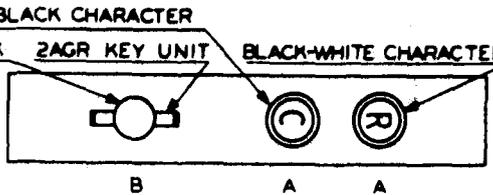
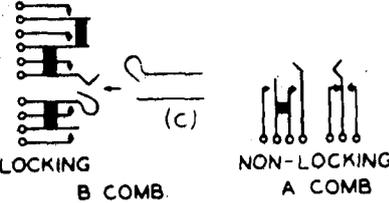
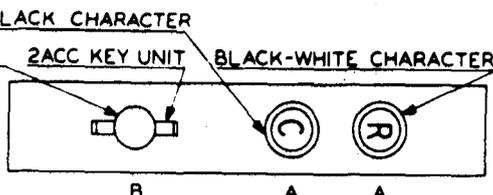
CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
11	B18P	 <p>NON-LOCKING A COMB. B COMB. C COMB.</p> <p>4R, 12R, 1B</p>	 <p>BLACK-WHITE CHARACTER RED-BLACK CHARACTER WHITE ZEE KEY UNIT</p> <p>A B C</p>
13	B18R	 <p>LOCKING NON-LOCKING NON-LOCKING A COMB. B COMB. C COMB.</p> <p>4R, 12R, 1B</p>	 <p>ZARK KEY UNIT BLACK-WHITE CHARACTER RED RED-BLACK CHARACTER</p> <p>A B C</p>
14	B18N (cr)	 <p>NON-LOCKING A COMB.</p>	 <p>RED-BLACK CHARACTER BLACK-WHITE CHARACTER</p> <p>A A</p>

4R - Standard sequence requirement does not apply.
12R - Standard nonclick requirement does not apply.

1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
(cr) - Intended to mount with push buttons at rear of keyshelf.

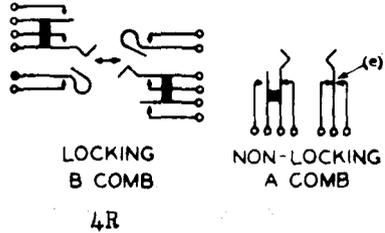
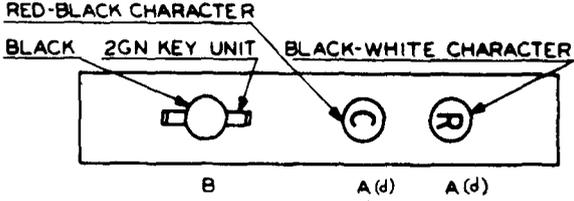
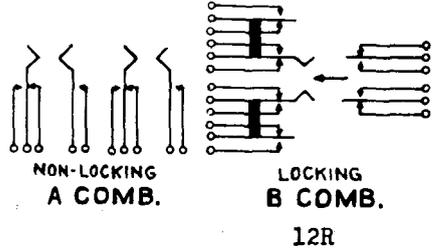
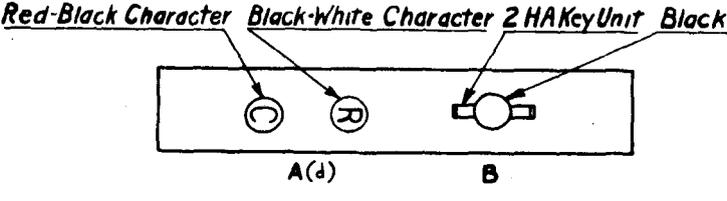
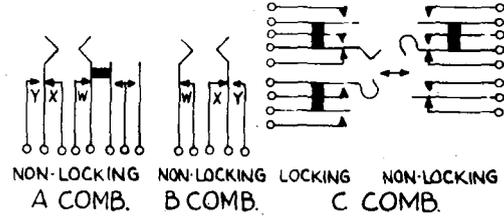
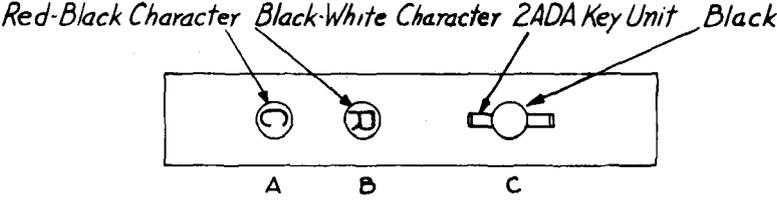
Jan 1954

B18 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
16	B18D (br, cr)	 <p>NON-LOCKING F COMB. NON-LOCKING G COMB. LOCKING H COMB.</p> <p>4R, 12R, 24B, 25C</p>	 <p>2ACM Key Unit <i>Black</i> <i>Red-Black Character</i> <i>Black-White Character</i></p> <p>H F G</p>
22	B18K (cr)	 <p>LOCKING B COMB NON-LOCKING A COMB</p> <p>4R, 12R, 75B</p>	 <p>RED-BLACK CHARACTER BLACK 2AGR KEY UNIT BLACK-WHITE CHARACTER</p> <p>B A A</p>
24	B18M (cr)	 <p>LOCKING B COMB. NON-LOCKING A COMB</p> <p>4R, 12R</p>	 <p>RED-BLACK CHARACTER BLACK 2ACC KEY UNIT BLACK-WHITE CHARACTER</p> <p>B A A</p>

4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 24B - Closed contacts W shall break after open contacts Y make.
 75B - Contacts R shall make before contacts S break.

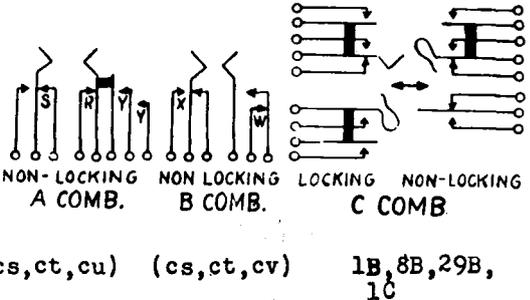
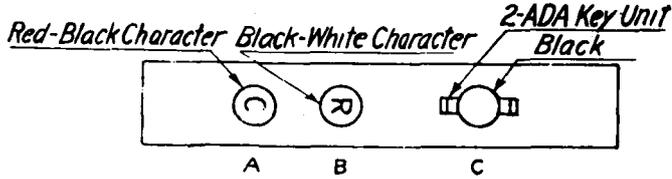
25C - Standard nonclick requirement applies only to normally closed contacts of the locking combination.
 (C) - Cushion springs to reduce noise.
 (br) - Has molded metal frame buttons.
 (cr) - Intended to mount with push buttons at rear of keyshelf.

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
26	B18L (br, cr)	 <p>LOCKING B COMB 4R</p> <p>NON-LOCKING A COMB (e)</p>	 <p>RED-BLACK CHARACTER BLACK 2GN KEY UNIT BLACK-WHITE CHARACTER</p> <p>B A(d) A(d)</p>
28	B18A (dr)	 <p>NON-LOCKING A COMB.</p> <p>LOCKING B COMB. 12R</p>	 <p>Red-Black Character Black-White Character 2 HA Key Unit Black</p> <p>A(d) A(d) B</p>
30	B18J	 <p>NON-LOCKING A COMB. NON-LOCKING B COMB. LOCKING C COMB.</p> <p>(cs,cw,cx) (cs,cw,cx) 1B,8B,29B</p>	 <p>Red-Black Character Black-White Character 2 ADA Key Unit Black</p> <p>A B C</p>

4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
 8B - Standard sequence requirement applies only to contacts of nonlocking spring combinations.
 29B - Exception 1B shall apply only to the locking combinations.
 (d) - No. 2 metal contacts.
 (e) - Heavy No. 2 metal contacts.

(br) - Has molded metal frame buttons.
 (cr) - Intended to mount with push buttons at rear of keyshelf.
 (cs) - Push buttons equipped with No. 2 metal contacts. Make contacts of break-make combinations of both push buttons and make-make contacts of front push button are heavy No. 2 metal.
 (cw) - Contacts W shall break before contacts X break.
 (cx) - Contacts X shall break before contacts Y make.
 (dr) - Certain operating springs follow lever (which operates in one direction only).

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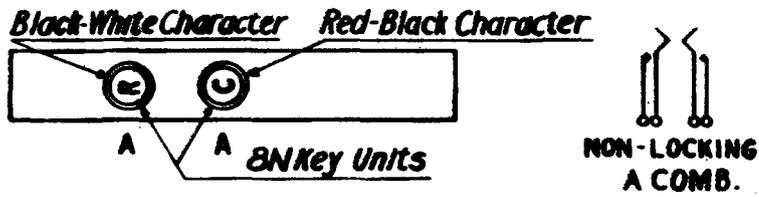
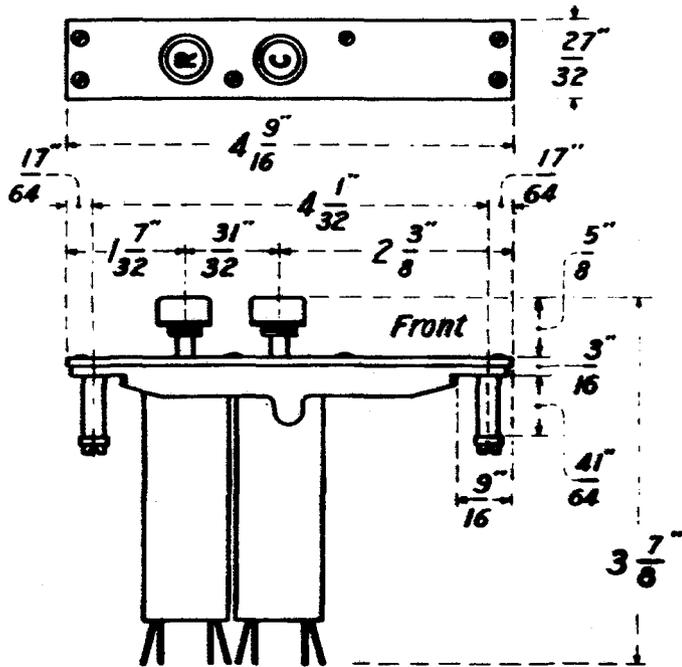
CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
31	B18H	 <p>(cs,ct,cu) (cs,ct,cv) 1B, 8B, 29B, 1C</p>	

B18 Keys (Contd.)

- 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
- 8B - Standard sequence requirement applies only to contacts of nonlocking spring combinations.
- 29B - Exception 1B shall apply only to the locking combinations.
- 1C - Standard nonclick requirement applies only to contacts of nonlocking combination.

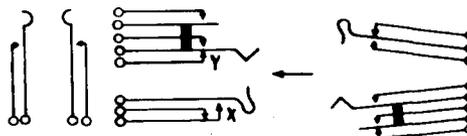
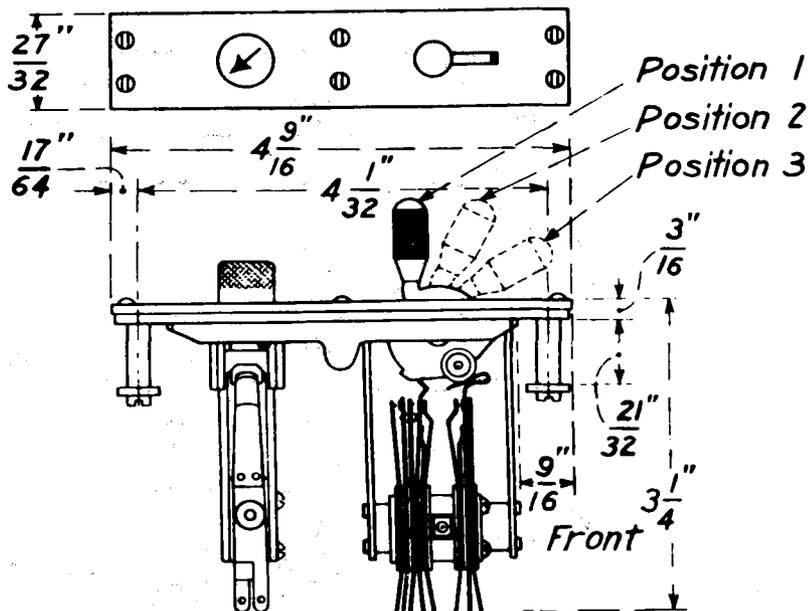
- (cs) - Push buttons equipped with No. 2 metal contacts. Make contacts of break-make combinations of both push buttons and make-break contacts of front push button are heavy No. 2 metal.
- (ct) - Inside contacts shall make before outside contacts make; does not apply to Y or W contacts.
- (cu) - Contact R shall break before contact S breaks.
- (cv) - Contact W shall break before contact X makes.

BL9A KEY



This key is equipped with two nonlocking push buttons.

B20A KEY



4b, 8b, 9b, 6c
SCHEMATIC FOR POSITION 1
All positions are locking

This key is equipped with a 1-way lever-type 5K key unit and a 3G rotating button key unit.

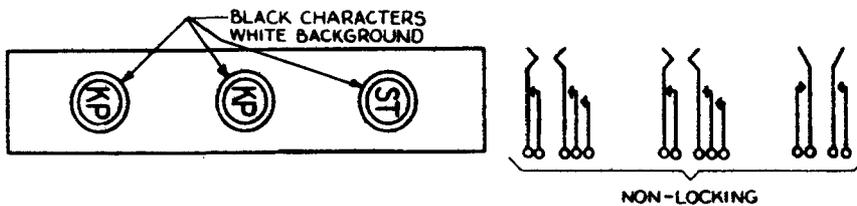
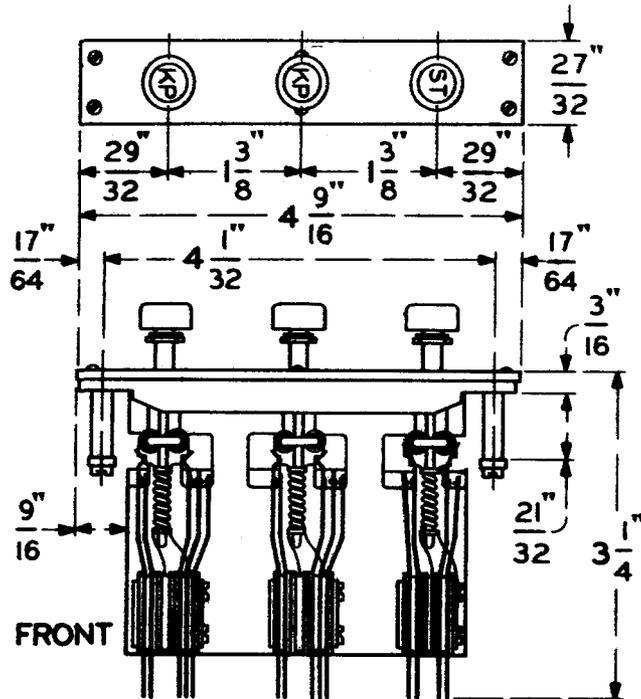
In the lever-type key unit, position 1 as shown in the illustration and schematic represents the normal position.

The following exceptions apply to the 5K unit only:

- 4B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
- 8B - Exception 4B does not apply to contacts operated when the lever is operated to position 3.
- 9B - X contacts shall make before contact Y breaks.
- 6C - Standard nonclick requirement does not apply to contacts operated when lever is operated to position 3.

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B23A KEY

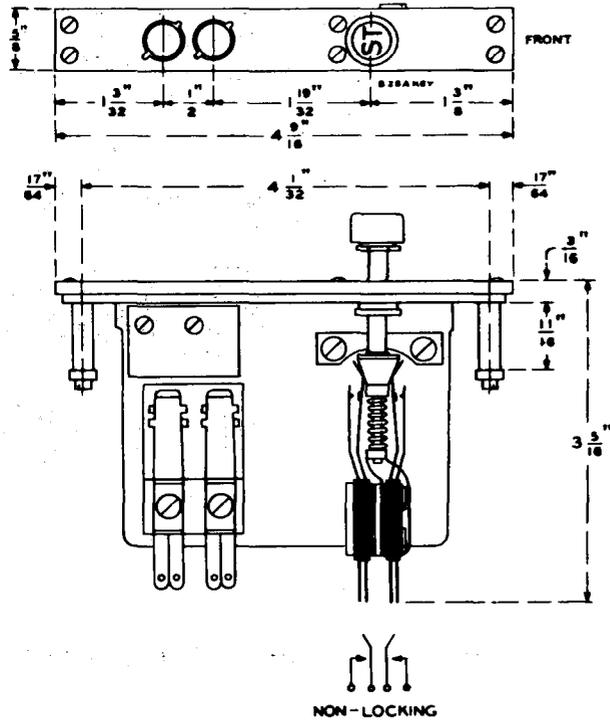


B23A Also General Design and Dimensions of B23 Type

This key is equipped with three nonlocking push buttons. Key buttons are molded plastic type.

Contacts are No. 2 metal.

B25A KEY

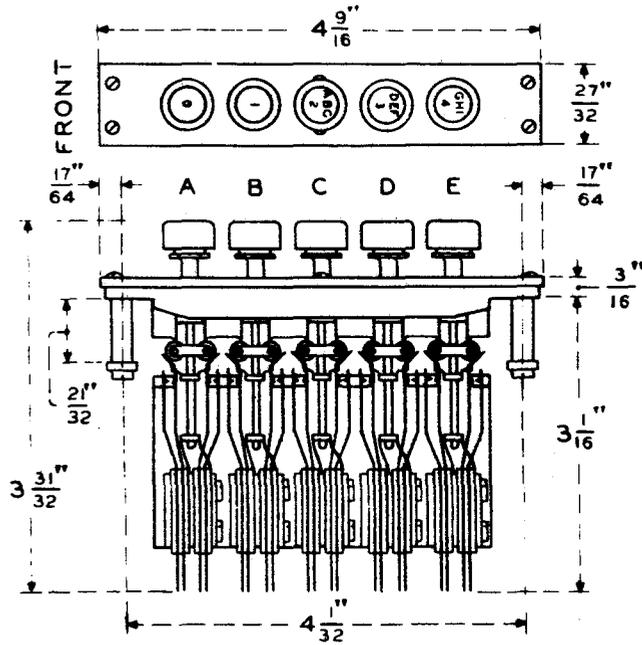


X-75506

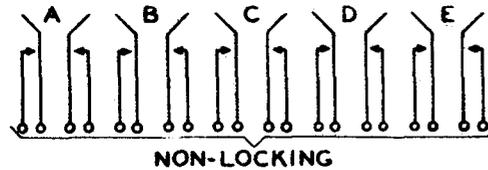
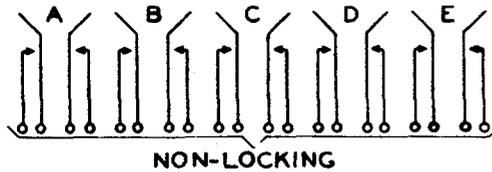
This key is equipped with one push button and two lamp sockets for No. 2-type lamps. The molded plastic push button has black characters on a white background.

Contacts are heavy No. 2 metal.

B26-TYPE KEYS

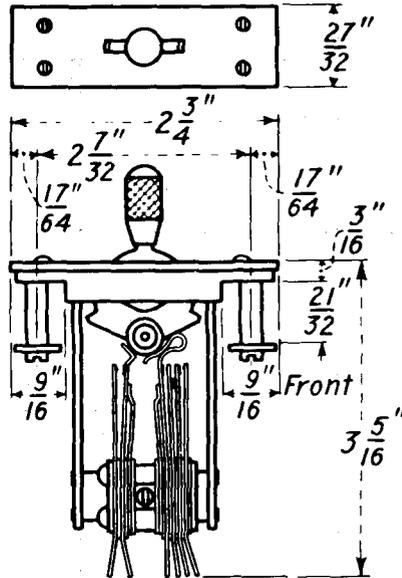


B26A Also General Design and Dimensions of B26 Type



These keys are equipped with five nonlocking push buttons. The molded plastic buttons have black characters on a white background.

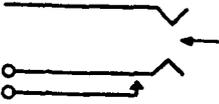
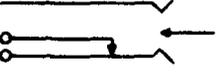
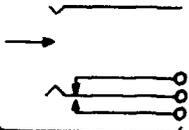
CI-TYPE KEYS



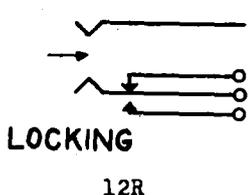
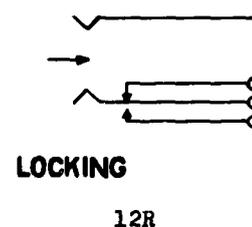
CI-A Also General Design and Dimensions of CI Type

These keys are equipped with one lever-type key unit. A No. 38B shield can be used with these keys.

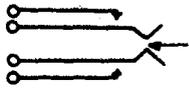
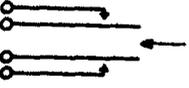
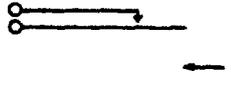
X-75506

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
2	C1FY	 <p>LOCKING 4R,12R</p>	2HN BLACK			
2	C1JB	 <p>LOCKING 4R,12R</p>	2KW RED			
3	C1EJ	 <p>LOCKING 12R</p>	2GH BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
3	C1GG	 <p>LOCKING 12R</p>	2GH RED	TRANS		
3	C1HK	 <p>LOCKING 12R</p>	2GH BLACK	NT		

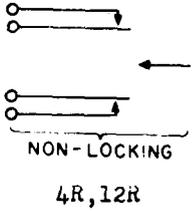
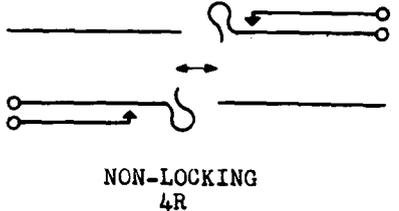
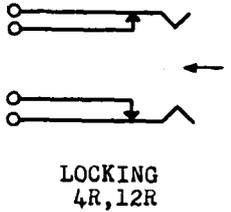
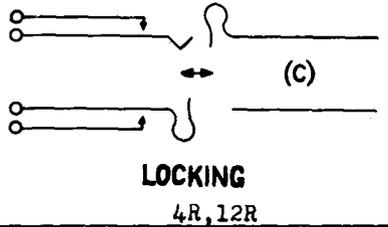
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
4	C1BU	 <p>LOCKING 4R,12R</p>	2BG BLACK		MB	
4	C1BW	 <p>NON-LOCKING 4R,12R</p>	2JK RED		NOT	
4	C1DF	 <p>LOCKING 4R,12R</p>	2BG BLACK	TALK		
4	C1EB	 <p>NON-LOCKING 4R,12R</p>	2JK BLACK			

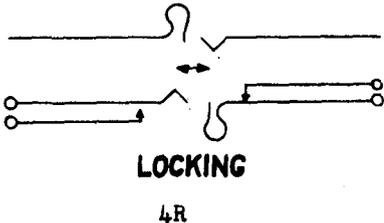
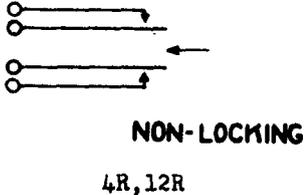
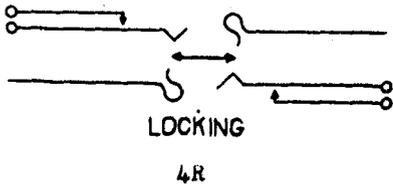
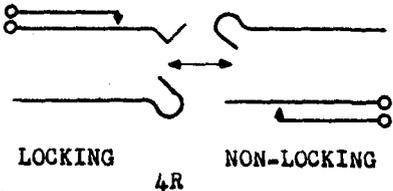
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

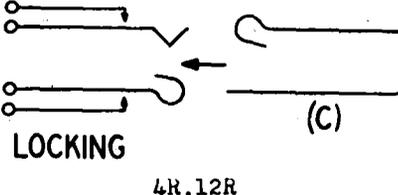
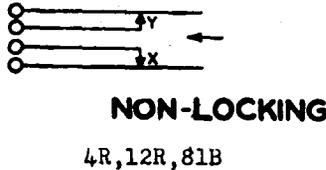
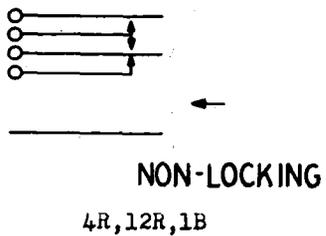
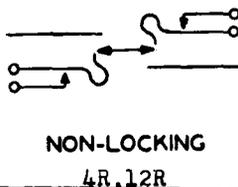
C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
4	C1FD	 <p>NON-LOCKING 4R, 12R</p>	2JK BLACK		COUNTER CHECK	
4	C1GA	 <p>NON-LOCKING 4R</p>	2SP BLACK			
4	C1GC	 <p>LOCKING 4R, 12R</p>	2AY BLACK		UNIV	
4	C1GS	 <p>LOCKING 4R, 12R</p>	2ABF BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
4	C1GY	 <p>LOCKING 4R</p>	2FW BLACK	RG	G	
4	C1HN	 <p>NON-LOCKING 4R, 12R</p>	2JK RED		SR	
4	C1JE	 <p>LOCKING 4R</p>	2WT BLACK			
4	C1KR	 <p>LOCKING NON-LOCKING 4R</p>	2AAR BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

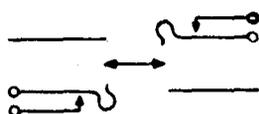
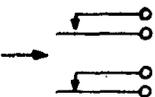
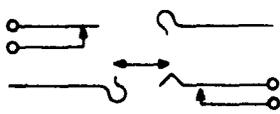
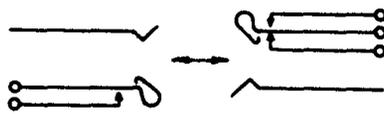
CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
4	C1LN	 <p>LOCKING 4R,12R (C)</p>	2ABF BLACK		(aw) BUZ	
4	C1LP	 <p>NON-LOCKING 4R,12R,81B</p>	2AGN BLACK			
4	C1NB	 <p>NON-LOCKING 4R,12R,1B</p>	(d)2APL RED			
4	C1NL	 <p>NON-LOCKING 4R,12R</p>	2SP BLACK	ANS	REP	

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

Jan 1954

C1 Keys (Contd.)

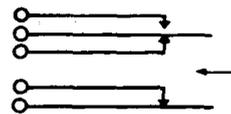
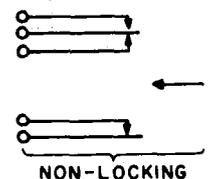
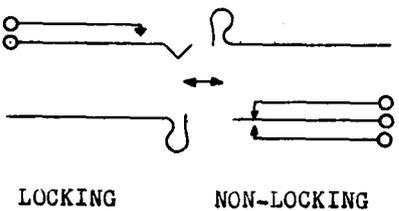
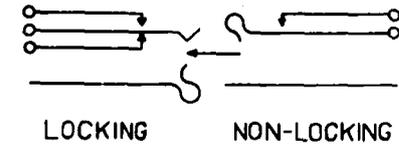
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CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
4	C1NR	 <p>NON-LOCKING 4R,12R</p>	2SP BLACK	ANS	REC OPEN	
4	C1NW	 <p>NON-LOCKING 4R,12R</p>	2AFT BLACK	TR SA		
4	C1PB	 <p>NON-LOCKING LOCKING 4R,12R</p>	(d)2AUK BLACK	(av) SA	R	
5	C1BB	 <p>LOCKING 12R</p>	2GC BLACK	(aw) TRNS	(aw) BUZ	

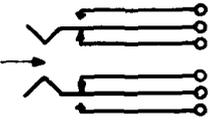
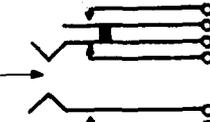
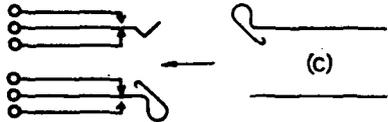
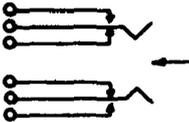
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

Jan 1954

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
5	C1EA	 <p>NON-LOCKING 12R</p>	(d)2MU RED			
5	C1FF	 <p>NON-LOCKING 12R</p>	(d)2MU RED		REL	
5	C1HF	 <p>LOCKING NON-LOCKING</p>	2UB BLACK			
5	C1JA	 <p>LOCKING NON-LOCKING</p>	(d)2WF BLACK			

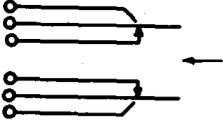
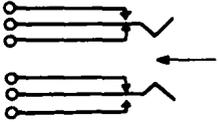
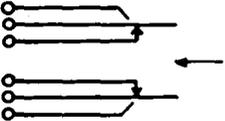
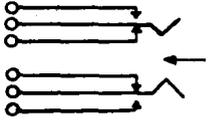
Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
6	C1H	 <p>LOCKING 12R</p>	(d)2A BLACK			
6	C1AS	 <p>LOCKING 12R</p>	2FN BLACK			
6	C1BC	 <p>LOCKING 12R</p>	(d)2ACP BLACK		(aw) EFR	
6	C1BD	 <p>LOCKING 12R</p>	2GP BLACK		HAND GEN	

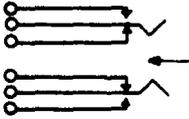
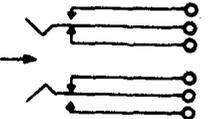
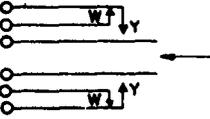
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For information referred to in () see Ref. Notes, page 103

Jan 1954

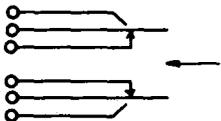
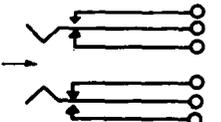
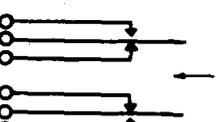
CI Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
6	C1BL	 <p>NON-LOCKING 12R</p>	2F RED		R	(a)
6	C1CB	 <p>LOCKING 12R</p>	(d)2A BLACK		REV	
6	C1CC	 <p>NON-LOCKING 12R</p>	2AK RED		±	(a)
6	C1CE	 <p>LOCKING 12R</p>	2GP BLACK		G	

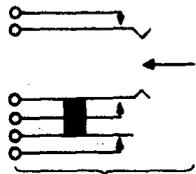
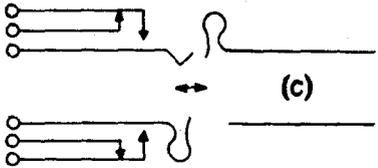
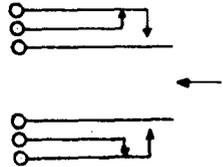
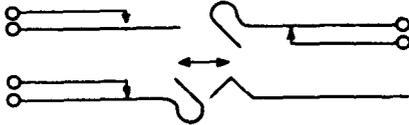
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
6	C1CF	 <p>LOCKING 12R</p>	2GP BLACK		FEMF	
6	C1CH	 <p>LOCKING 12R</p>	2GP BLACK	VM REV		
6	C1DA	 <p>NON-LOCKING 4R, 12R, 24B</p>	2LG BLACK			

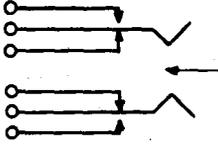
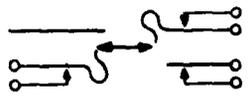
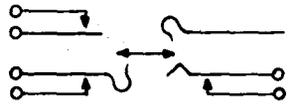
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
6	C1DC	 <p>NON-LOCKING 12R</p>	2F BLACK			(a)
6	C1DW	 <p>LOCKING 12R</p>	2GP BLACK		BL, BV	
6	C1DY	 <p>LOCKING 4R, 12R</p>	2EC BLACK			
6	C1ED	 <p>12R</p>	2EE RED			

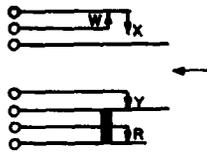
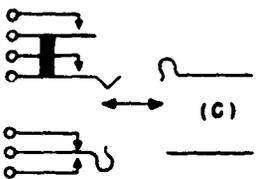
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATICS	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
6	C1FE	 <p>LOCKING 4R, 12R</p>	2EC BLACK		HOLD AND TALK	
6	C1HD	 <p>LOCKING 4R, 12R</p>	2ACK RED			
6	C1HG	 <p>NON-LOCKING 4R, 12R, 30B</p>	(d)2SN BLACK			
6	C1KL	 <p>4R, 12R</p>	2US BLACK			

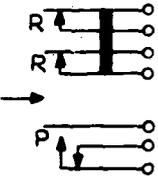
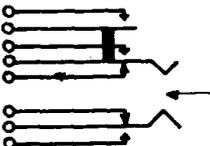
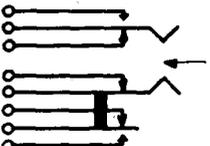
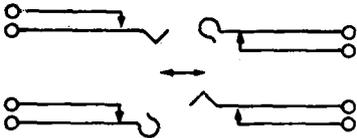
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 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
6	C1LA	 <p>LOCKING 12R</p>	2GP BLACK			
6	C1MU	 <p>NON-LOCKING 4R, 12R, 2B</p>	2ANU RED			
6	C1NJ	 <p>NON-LOCKING 4R, 12R</p>	2AAY BLACK	LO	RES	
6	C1NY	 <p>NON-LOCKING LOCKING 4R, 1C</p>	(d) 2AJY BLACK	H	R	(ax)

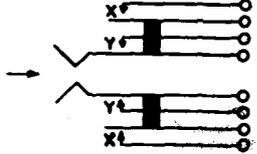
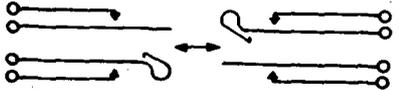
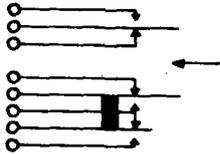
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
7	CLK	 <p>NON-LOCKING 4R, 12R, 44B</p>	2EF RED			
7	CLNP	 <p>LOCKING 4R, 12R, 1B</p>	2ABG BLACK		SOUND	

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
7	C1NS	 <p>NON-LOCKING 4R,12R,12B</p>	2EF BLACK	FL		
8	C1AM	 <p>LOCKING 12R</p>	2CH BLACK		SPLIT	
8	C1AN	 <p>LOCKING 12R</p>	2FL RED		M	
8	C1AR	 <p>LOCKING</p>	2FM BLACK			

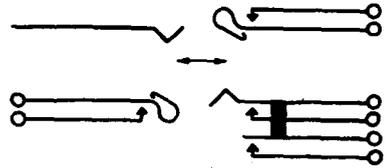
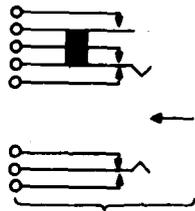
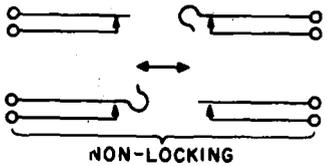
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For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
8	C1BM	 <p>LOCKING 4R, 12R, 43B</p>	2HW BLACK			
8	C1BT	 <p>NON-LOCKING 4R</p>	2UU RED	R	C	
8	C1CG	 <p>NON-LOCKING 12R</p>	2JJ RED		AM	
8	C1DK	 <p>LOCKING 4R</p>	2BF BLACK			

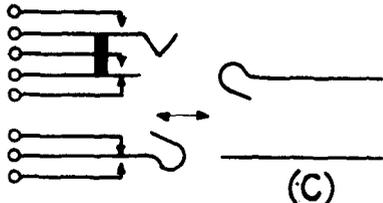
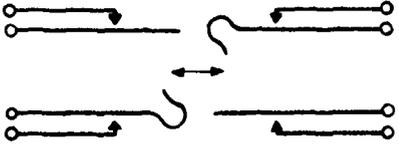
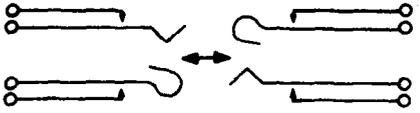
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Dec 1955

CI Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
8	C1EF	 <p>LOCKING 4R</p>	2HK BLACK			
8	C1EU	 <p>LOCKING 12R</p>	2CH BLACK			
8	C1EY	 <p>NON-LOCKING</p>	2AEC RED	C	F	

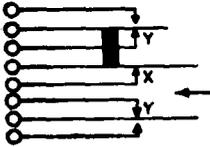
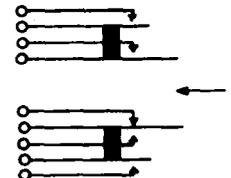
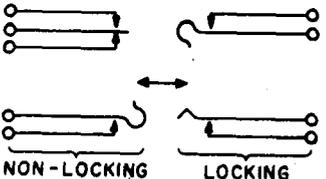
Numbers below schematics refer to requirement exceptions, see page 97
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CONT SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
8	C1KU	 <p>LOCKING 4R, 12R, 1B (C)</p>	2ABE BLACK		TALK	
8	C1LF	 <p>NON-LOCKING 4R, 12R</p>	2UU BLACK			
8	C1LM	 <p>LOCKING 4R, 12R</p>	2BF BLACK	(aw) TRNS	(aw) BUZ	

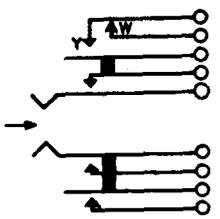
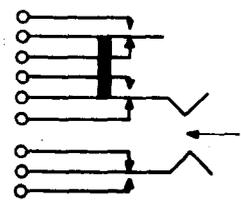
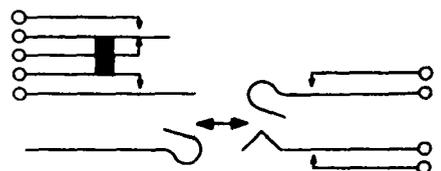
Numbers below schematics refer to requirement exceptions, see page 97
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Jan 1954

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
8	C1LR	 <p>NON-LOCKING 12R, 81B</p>	2AGM RED			
9	C1BN	 <p>NON-LOCKING 12R</p>	2HY WHITE		F	
9	C1EL	 <p>NON-LOCKING LOCKING</p>	2NM BLACK	TALK	BUSY TEST	

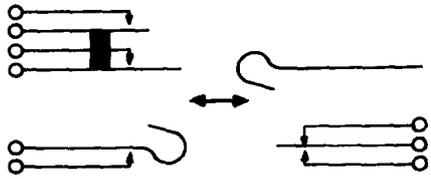
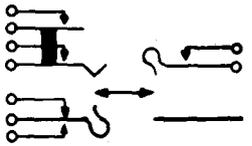
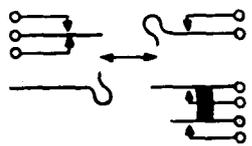
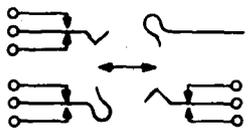
Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
9	C1FT	 <p>LOCKING 4R, 12R, 5B</p>	2SG BLACK			
9	C1KW	 <p>LOCKING 4R, 12R, 1B</p>	2CL RED			
9	C1MF	 <p>NON-LOCKING LOCKING</p> <p>4R, 2B, 6C</p>	2ALU BLACK			

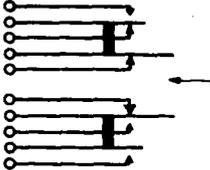
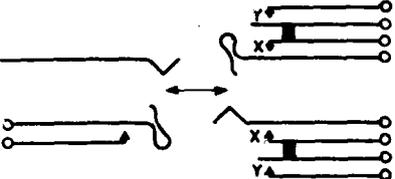
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Jan 1954

CI Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
9	C1MS	 <p>NON-LOCKING</p>	2ANS RED			
9	C1NH	 <p>LOCKING NON-LOCKING</p> <p>4R, 12R, 2B</p>	2ATG BLACK	CALL	SOUND	
9	C1NK	 <p>NON-LOCKING</p> <p>4R, 12R, 2B</p>	2ANS RED	RING	OW	
9	C1NM	 <p>LOCKING</p> <p>4R, 12R, 1B</p>	2DM BLACK	DIAL	TRK LO	

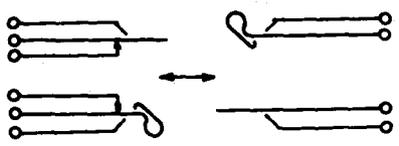
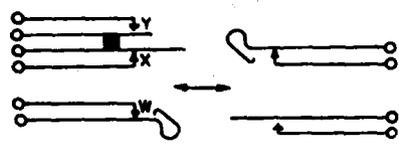
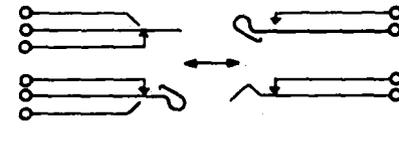
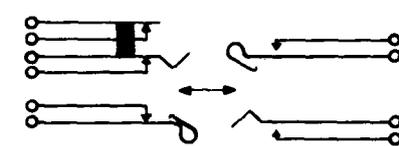
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
10	C1F	 <p style="text-align: center;">NON-LOCKING 12R</p>	2BA RED			
10	C1T C1U	 <p style="text-align: center;">LOCKING 4R, 70B, 11C, 14C</p>	2ED BLACK 2ED RED			

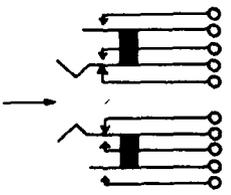
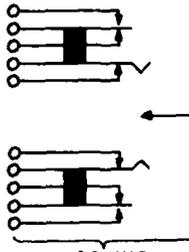
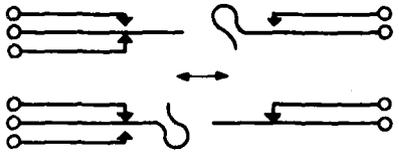
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

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C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
10	C1BA	 <p>NON-LOCKING</p>	2AEF RED	SR	R	(a)
10	C1BK	 <p>NON-LOCKING 4R, 39B, 45B</p>	2GG RED	C	F	
10	C1CK	 <p>NON-LOCKING LOCKING</p>	2JE BLACK			(a)
10	C1CM	 <p>LOCKING</p>	2KC BLACK	TALK	KR	

Numbers below schematics refer to requirement exceptions, see page 97
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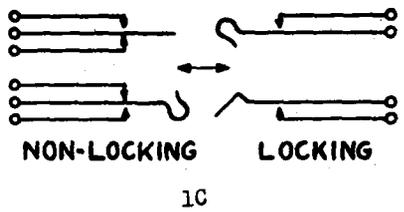
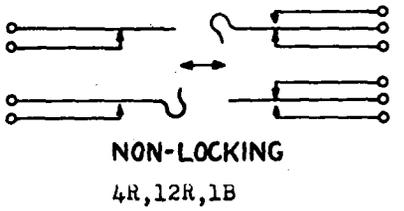
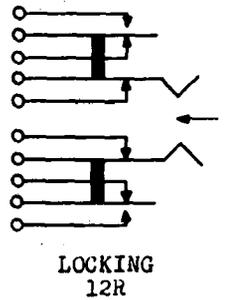
CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
10	C1DH	 <p>LOCKING 12R,43B</p>	2DN BLACK	T VM		
10	C1EW	 <p>LOCKING 12R</p>	2PY BLACK		SPLIT	
10	C1GH	 <p>NON-LOCKING</p>	2SS RED	C	R	

Numbers below schematics refer to requirement exceptions, see page 97
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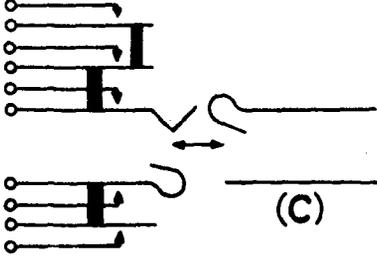
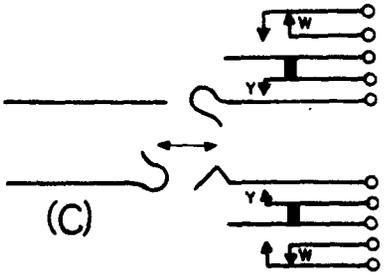
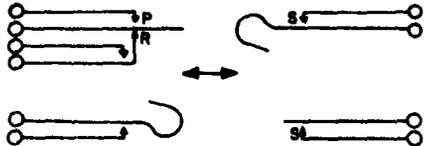
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C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
10	C1JR	 <p>NON-LOCKING LOCKING</p> <p>10</p>	2WU BLACK			
10	C1KB	 <p>NON-LOCKING</p> <p>4R, 12R, 1B</p>	2SS BLACK			
10	C1LB	 <p>LOCKING</p> <p>12R</p>	2PY BLACK			

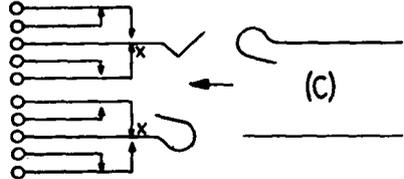
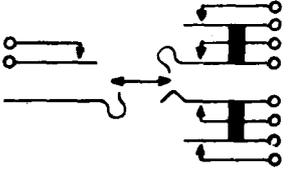
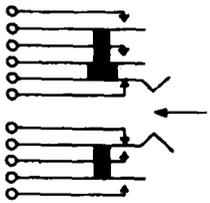
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 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
10	C1LC	 <p>LOCKING 4R</p>	2ACC BLACK		"CHF" SWMN	
10	C1LG	 <p>LOCKING 4R,12R,30B</p>	2ADG BLACK			
10	C1MR	 <p>NON-LOCKING 4R,12B,23C</p>	2ANM RED			

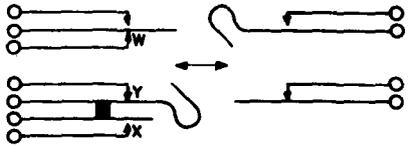
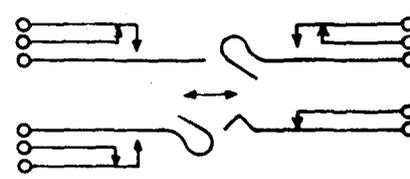
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 For information referred to in () see Ref. Notes, page 103

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C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
10	C1NA	 <p>LOCKING 4R,12R,111B</p>	2ACM WHITE			
10	C1PA	 <p>NON-LOCKING LOCKING 4R,1C</p>	(d) 2AUJ BLACK	SA LP		
11	C1CN	 <p>LOCKING 12R</p>	2KD BLACK		DC	

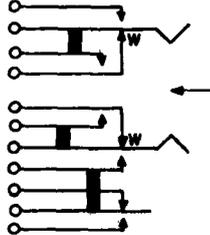
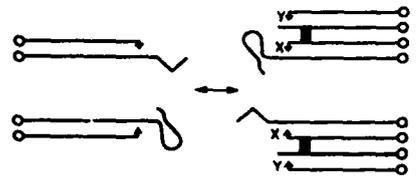
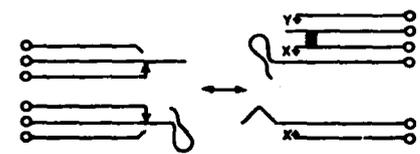
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For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
11	C1KJ	 <p>NON-LOCKING 4R, 12R, 3B</p>	2AAE RED	C	F	
11	C1KP	 <p>NON-LOCKING 4R LOCKING</p>	(d) 2AAP RED			

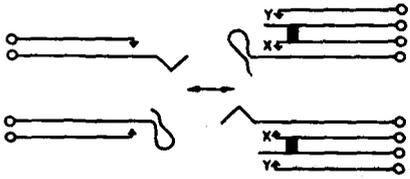
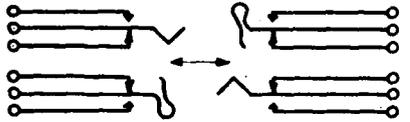
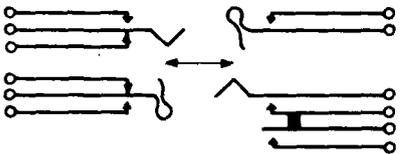
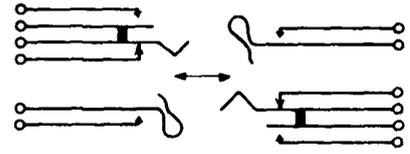
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Jan 1954

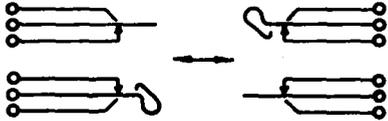
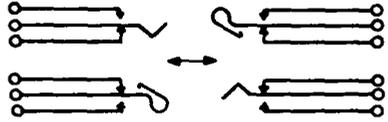
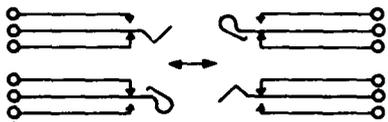
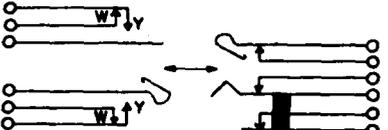
C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
11	C1E	 <p style="text-align: center;">LOCKING 4R, 12R, 2B, 9B</p>	(d)2ACJ BLACK			
12	C1A	 <p style="text-align: center;">LOCKING 4R, 70B, 11C, 14C</p>	2AC BLACK			
12	C1B	 <p style="text-align: center;">NON-LOCKING LOCKING 43B, 1C</p>	2AD BLACK			(a)

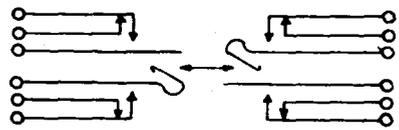
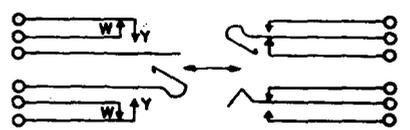
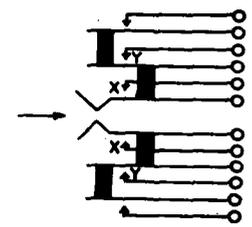
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
12	C1D	 <p>LOCKING 4R, 43B, 11C, 14C</p>	2AC RED			
12	C1G	 <p>LOCKING 30C</p>	(d)2C BLACK			
12	C1M	 <p>LOCKING 43B, 14C</p>	2CP BLACK			
12	C1R	 <p>LOCKING</p>	2CJ BLACK			

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CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
12	C1BH	 <p>NON-LOCKING 30C</p>	2G RED	±	±	(a)
12	C1CA	 <p>LOCKING</p>	2GR BLACK	20,000 OHMS	1000 OHMS	
12	C1CJ	 <p>LOCKING</p>	2GR BLACK	VM REV	SEC CO	
12	C1CW	 <p>NON-LOCKING LOCKING 24B</p>	2LE BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
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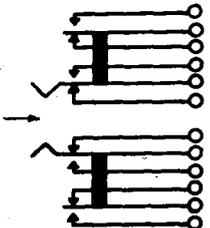
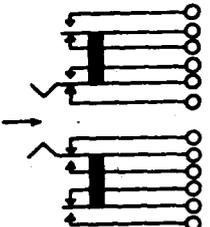
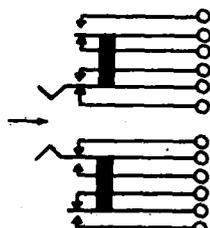
CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
12	C1CY	 <p>NON-LOCKING 4R</p>	2LB BLACK			
12	C1DB	 <p>NON-LOCKING LOCKING 24B, 30C</p>	2LH BLACK			
12	C1DG	 <p>LOCKING 4R, 12R, 43B</p>	2LP BLACK	RCL		

Numbers below schematics refer to requirement exceptions, see page 97
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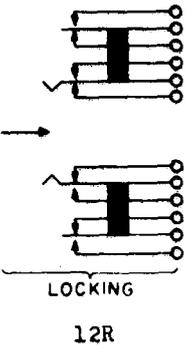
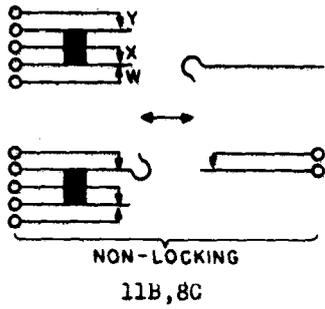
X-75506

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C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
12	C1DS	 <p>LOCKING 12R</p>	2GE BLACK	TRANS		
12	C1DT	 <p>LOCKING 12R</p>	2GE BLACK	AUTO		
12	C1DU	 <p>LOCKING 12R</p>	2GE BLACK	REFER		

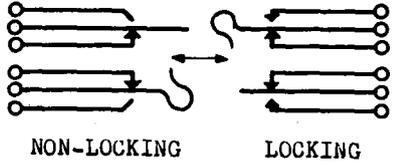
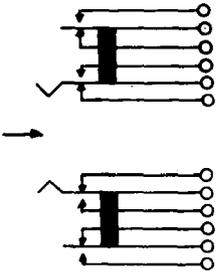
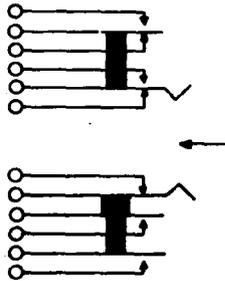
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CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
12	C1ES	 <p>LOCKING 12R</p>	(d)2BH BLACK	SEPARATE UNITS		(ba)
12	C1FB	 <p>NON-LOCKING 11B, 8C</p>	2PT BLACK	SHUNT	CALL	

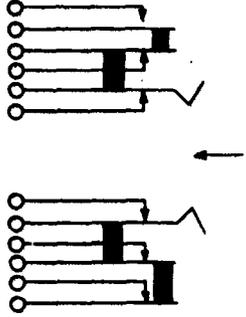
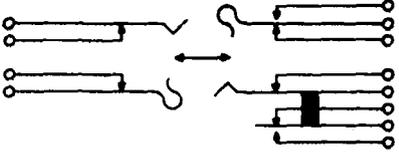
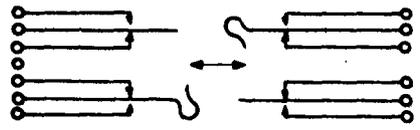
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C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
12	C1FS	 <p>NON-LOCKING LOCKING</p>	2AB BLACK	SPLIT	R	(a)
12	C1GW	 <p>LOCKING 12R</p>	2GE BLACK			
12	C1HT	 <p>LOCKING 12R</p>	(d)2UN BLACK			

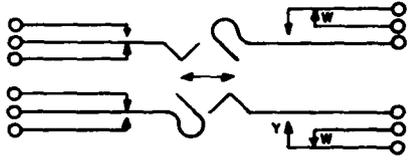
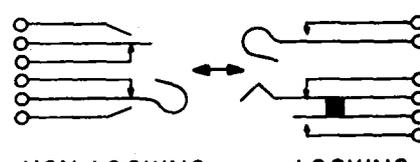
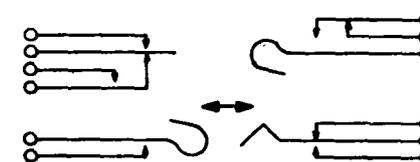
Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
12	C1HW	 <p>LOCKING 12R</p>	2UY BLACK			
12	C1JJ	 <p>LOCKING 4R, 12R, 2B</p>	2YH BLACK			
12	C1JL	 <p>NON-LOCKING</p>	2JP BLACK			

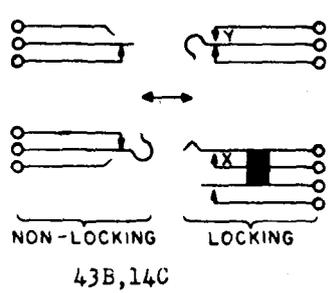
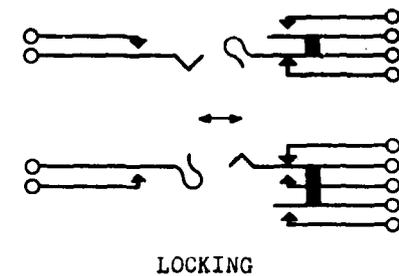
Numbers below schematics refer to requirement exceptions, see page 97
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C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
12	CLKM	 <p>LOCKING 4R, 12R, 1B, 5B</p>	2AAK BLACK			
12	CLMG	 <p>NON-LOCKING LOCKING</p> <p>1B, 8B, 29B, 19C</p>	2B BLACK			(a)
12	CLMW	 <p>NON LOCKING LOCKING</p> <p>4R, 12R, 2B</p>	2APA RED			

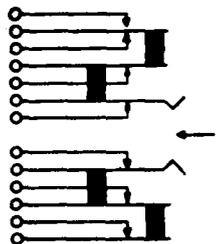
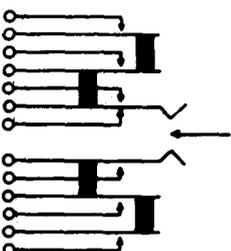
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CONT. SPGS.	CCDE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
13	C1FC	 <p>NON-LOCKING LOCKING 43B, 14C</p>	2PW BLACK			(a)
13	C1GR	 <p>LOCKING</p>	2TF BLACK	TRNS	BUZ	

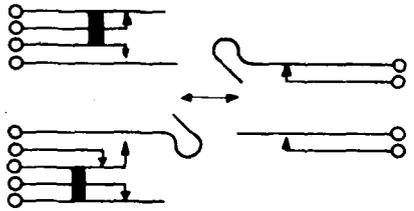
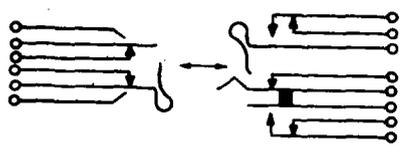
Numbers below schematics refer to requirement exceptions, see page 97
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Dec 1955

CI Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
13	CIHY	 <p>LOCKING 12R</p>	2WE BLACK			
13	CIJF	 <p>LOCKING 4R,12R,12B</p>	2WD BLACK		AT	

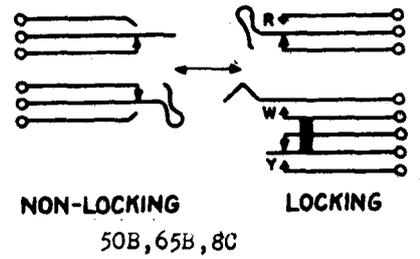
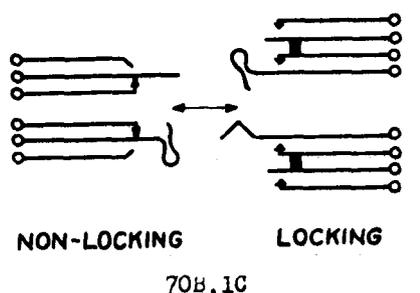
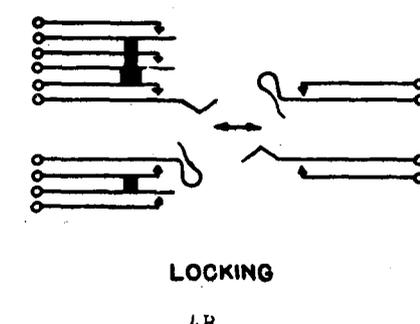
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 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
13	C1KN	 <p>NON-LOCKING 4R, 12R</p>	2AAJ RED	C	F	
14	C1L	 <p>NON-LOCKING LOCKING 8B</p>	2DC BLACK			(a)

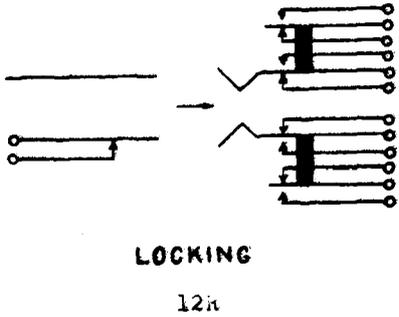
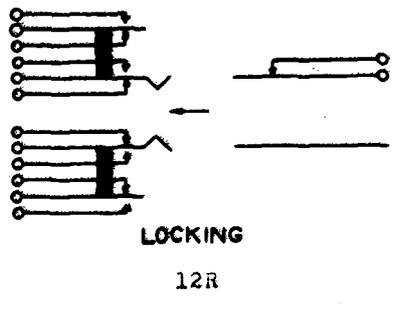
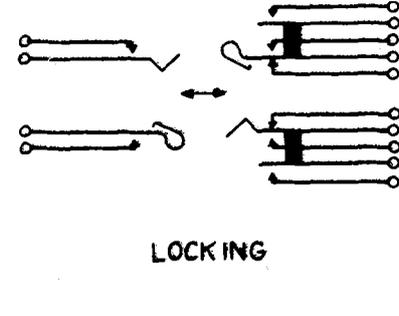
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
14	C1P	 <p>NON-LOCKING 50B, 65B, 8C</p> <p>LOCKING</p>	2CB BLACK			(a)
14	C1W	 <p>NON-LOCKING</p> <p>LOCKING</p> <p>70B, 1C</p>	2BS BLACK			(a)
14	C1Y	 <p>LOCKING</p> <p>4R</p>	2EM BLACK			

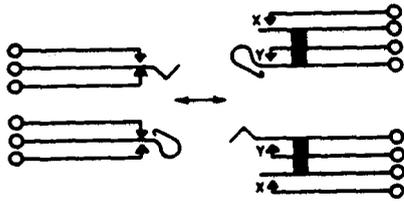
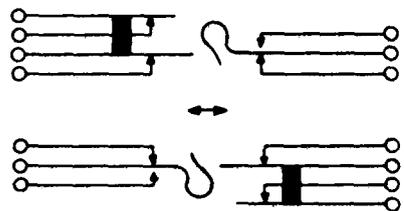
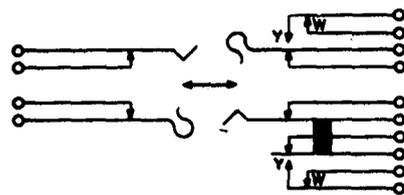
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
14	C1AU	 <p>LOCKING 12R</p>	2FS BLACK	(aw) TEL TANS		
14	C1AY	 <p>LOCKING 12R</p>	2GA RED		M	
14	C1CD	 <p>LOCKING</p>	(d) 2LR BLACK	T VM	T TC	

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

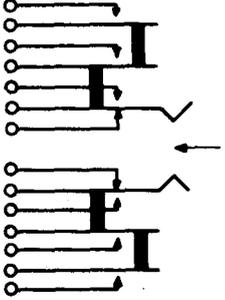
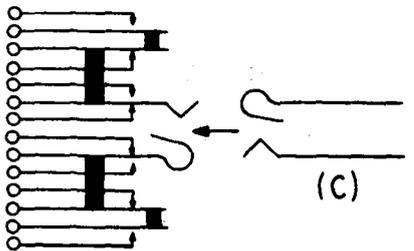
Jan 1954

CI Keys (Contd.)

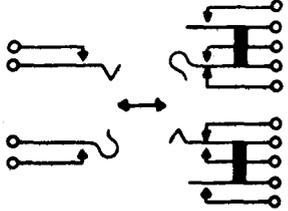
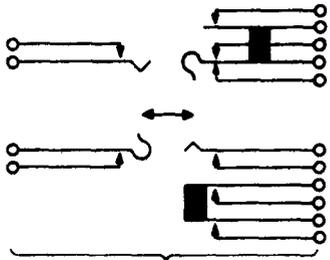
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				REAR	FRONT	
14	C1EE	 <p>LOCKING 21B</p>	2NE BLACK			
14	C1HR	 <p>NON-LOCKING</p>	2UL BLACK			
14	C1JK	 <p>LOCKING 4R, 12R 1B, 5B</p>	2YM BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

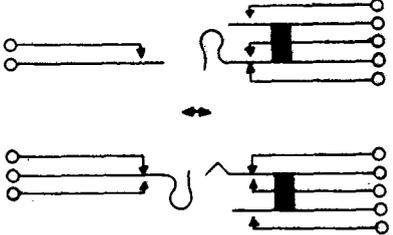
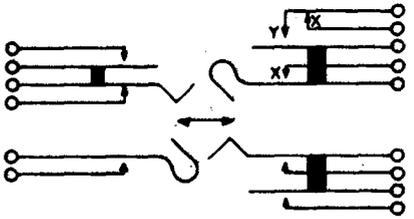
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CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
14	C1KT	 <p>LOCKING 4R,12R,1B</p>	2AAW BLACK			
14	C1MB	 <p>LOCKING 4R,12R,2B</p>	(d) 2AKN BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
14	C1PD	 <p>LOCKING 4R, 12R, 2B</p>	(d) 2LR BLACK	SA LP		
15	C1EK	 <p>LOCKING</p>	2NL BLACK			

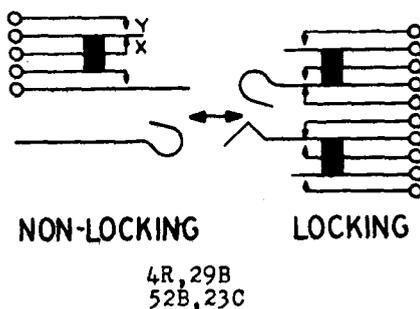
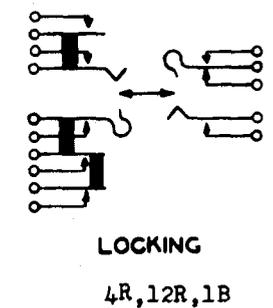
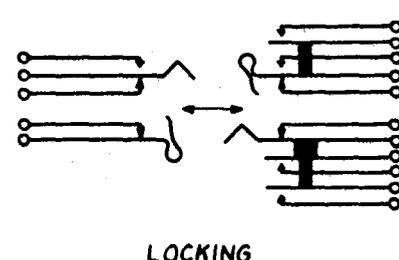
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
15	C1HC	 <p style="text-align: center;">NON-LOCKING LOCKING</p>	2TW BLACK	TALK	BUSY TEST	
15	C1KG	 <p style="text-align: center;">LOCKING 12R, 9B, 11B</p>	2AAG BLACK	TRK	OPR	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

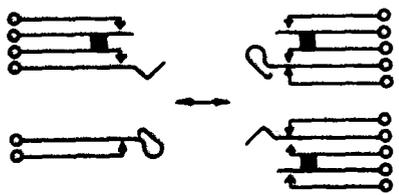
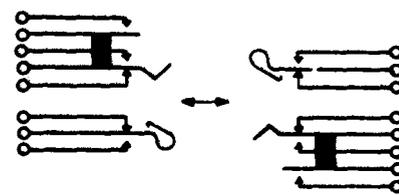
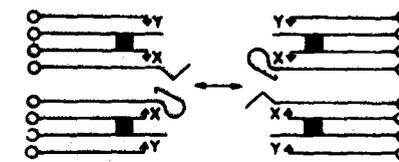
Jan 1954

CI Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
15	CLMK	 <p>NON-LOCKING LOCKING</p> <p>4R, 29B 52B, 23C</p>	2AML BLACK			
15	CLNG	 <p>LOCKING</p> <p>4R, 12R, 1B</p>	2ATC BLACK	TALK	MON	
16	CLAA	 <p>LOCKING</p>	2EW BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
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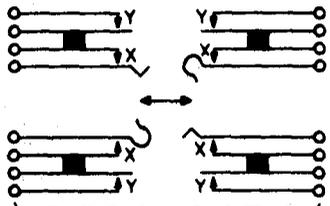
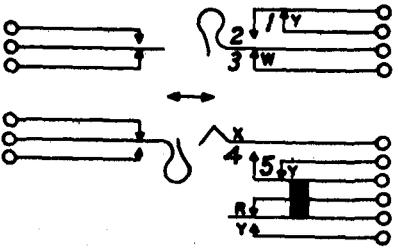
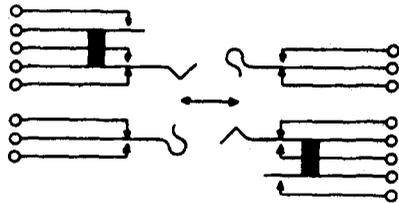
CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
16	C1BE	 <p style="text-align: center;">LOCKING</p>	2GU BLACK	MON	T	
16	C1BY	 <p style="text-align: center;">LOCKING</p>	(d) 2JH BLACK	SEN MON	TEST	
16	C1DE	 <p style="text-align: center;">LOCKING 4R,43B</p>	2LL BLACK	DM	DO	

Numbers below schematics refer to requirement exceptions, see page 97
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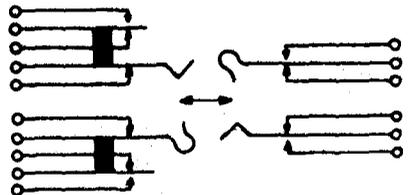
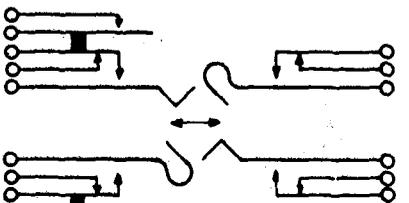
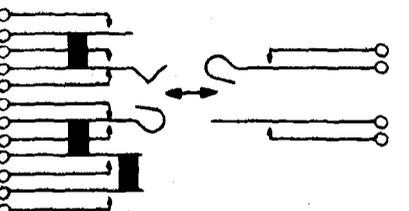
Jan 1954

CI Keys (Contd.)

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CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
16	CI FH	 <p>LOCKING</p> <p>4R, 70B</p>	2LL BLACK			
16	CI HL	 <p>NON-LOCKING LOCKING</p> <p>15B, 36B, 8C, 14C</p>	(bb) 2UF RED			
16	CI JG	 <p>LOCKING</p> <p>12R, 26B</p>	2AP BLACK			

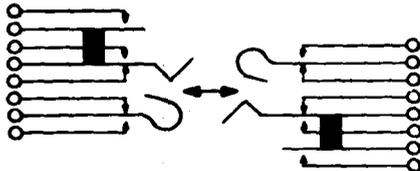
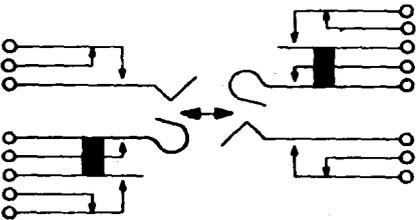
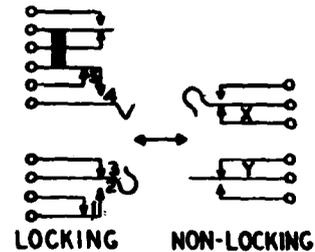
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
16	C1KA	 <p>LOCKING 4R,12R,1B</p>	2YT BLACK			
16	C1KF	 <p>LOCKING 4R,12R</p>	2AAB BLACK			
16	C1LH	 <p>LOCKING NON-LOCKING 4R,12R,2B</p>	2ADE BLACK			

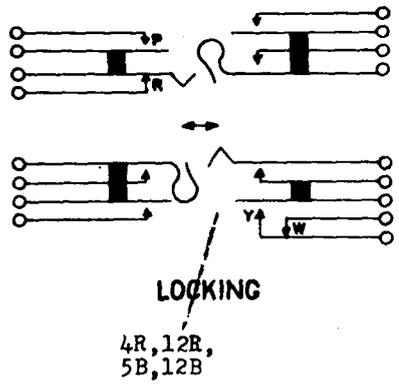
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

Jan 1954

CI Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
16	C1MJ	 <p>LOCKING 4R,1B</p>	2AP BLACK			
16	C1MT	 <p>LOCKING 4R,12R</p>	2ANT BLACK			
16	C1PC	 <p>LOCKING NON-LOCKING 4R,12R,23B</p>	(bb) 2UF BLACK	FL	H	

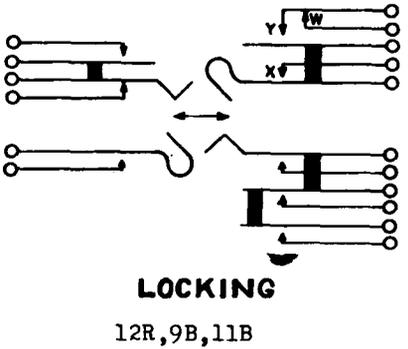
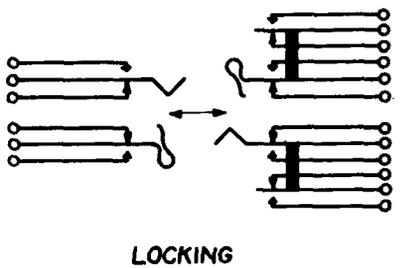
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
17	C1HJ	 <p>LOCKING 4R,12R, 5B,12B</p>	(d) 2UE BLACK	TRK	OPR	

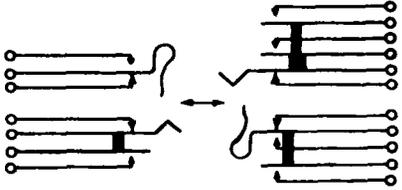
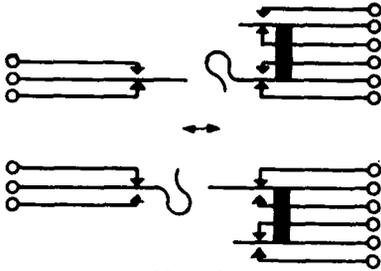
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

Dec 1955

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
17	ClKH	 <p>LOCKING 12R,9B,11B</p>	2AAF BLACK	TRK	OPR	
18	ClN	 <p>LOCKING</p>	2BD BLACK			

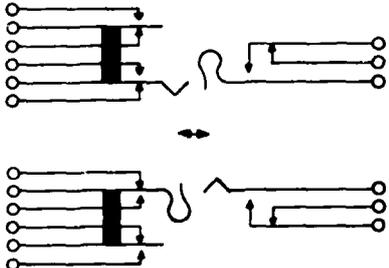
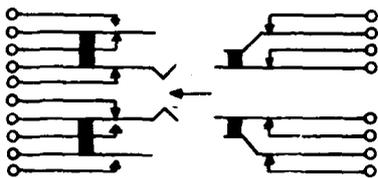
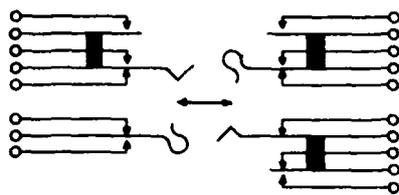
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
18	CIAD	 <p style="text-align: center;">LOCKING</p>	2FA BLACK			
18	CI1W	 <p style="text-align: center;">NON-LOCKING</p>	2SJ BLACK			

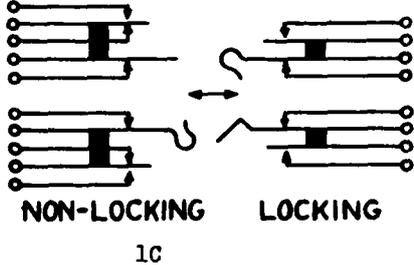
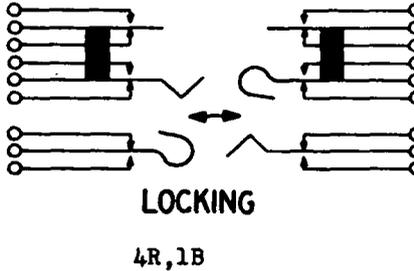
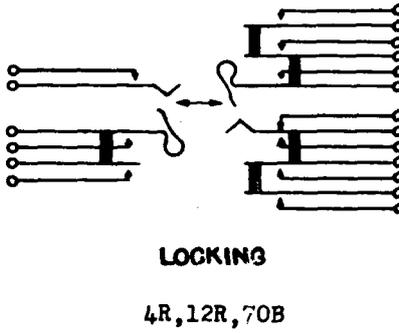
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

CI Keys (Contd.)

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
18	C1GT	 <p>LOCKING 24B, 15C</p>	2TT BLACK			
18	C1JC	 <p>LOCKING 12R, 26B</p>	2WP BLACK			(dr)
18	C1JH	 <p>LOCKING 4R, 12R, 2B</p>	(d) 2YE BLACK			

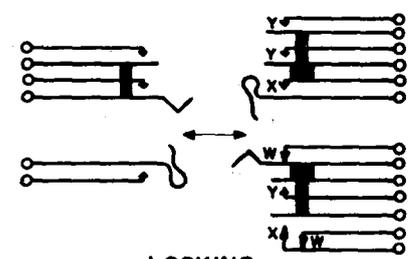
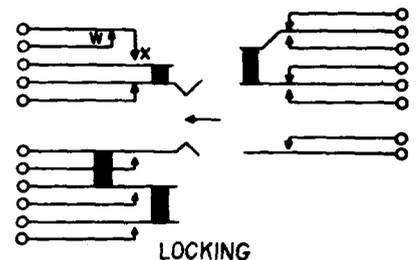
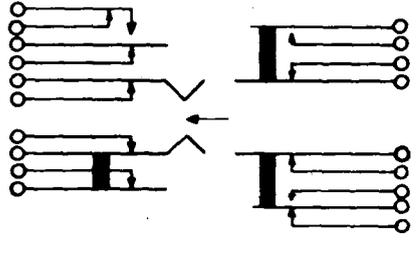
Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
18	C1JM	 <p>NON-LOCKING LOCKING</p> <p>1C</p>	2YF BLACK			
18	C1MY	 <p>LOCKING</p> <p>4R,1B</p>	2KM BLACK			
19	C1AC	 <p>LOCKING</p> <p>4R,12R,70B</p>	2EN BLACK			

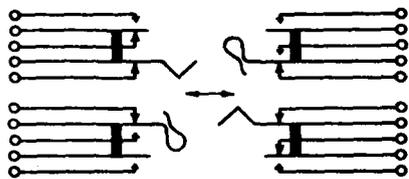
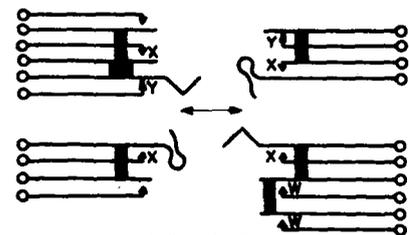
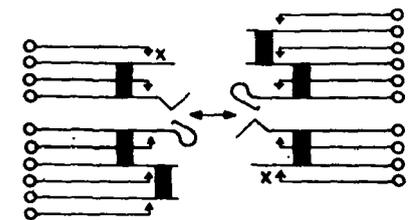
Numbers below schematics refer to requirement exceptions, see page 97
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Jan 1954

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
19	C1AF	 <p>LOCKING 4R,41B</p>	2ADT BLACK	T	H	
19	C1JD	 <p>LOCKING 12R,37B</p>	2WS BLACK			(dr)
19	C1KK	 <p>LOCKING 4R,12R,1B, 10B,14B</p>	2AAH BLACK			(dr)

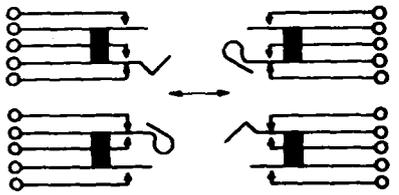
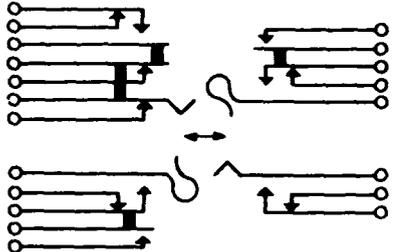
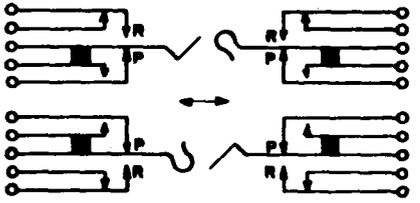
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
20	C1E	 <p>LOCKING 4R,1B</p>	2BL BLACK			
20	C1AL	 <p>LOCKING 4R,12R, 28B,35B</p>	2ADW BLACK	T	OPR	
20	C1CL	 <p>LOCKING 4R,48B</p>	2JM BLACK			

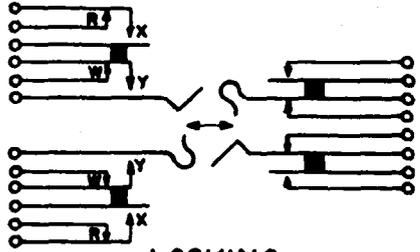
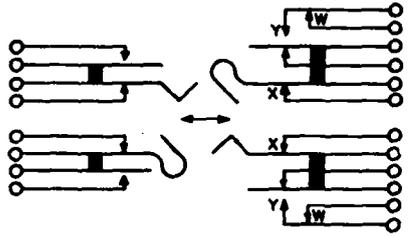
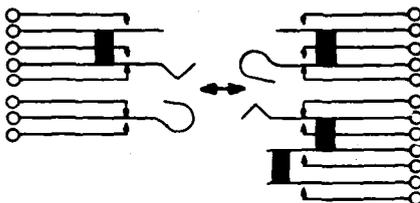
Numbers below schematics refer to requirement exceptions, see page 97
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Jan 1954

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
20	C1DM	 <p>LOCKING</p>	2BJ BLACK			
20	C1GB	 <p>LOCKING 4R, 12R, 24B</p>	2SR BLACK			
20	C1JN	 <p>LOCKING 4R, 12R, 4B</p>	2YG BLACK			

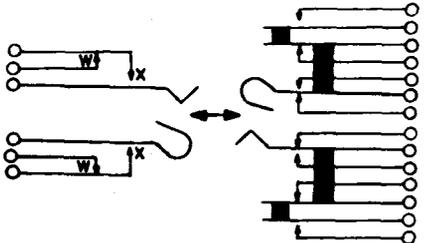
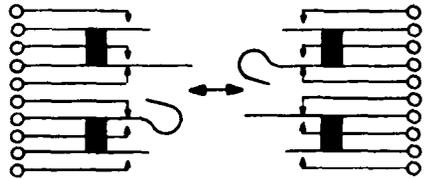
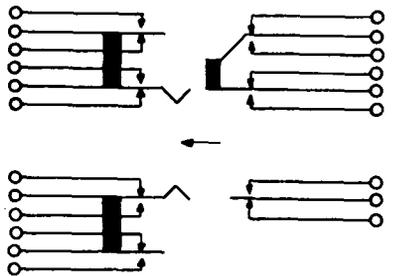
Numbers below schematics refer to requirement exceptions, see page 97
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CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
20	C1JP	 <p>LOCKING 12R, 5B, 6B</p>	2YK BLACK			
20	C1KC	 <p>LOCKING 4R, 12R, 1B, 5B, 10B</p>	2AAA BLACK			
20	C1LS	 <p>LOCKING 4R, 12R, 1B</p>	2WR RED			

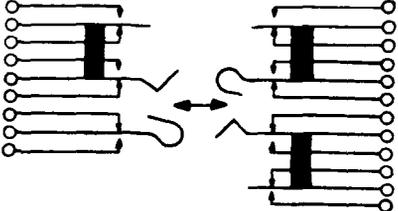
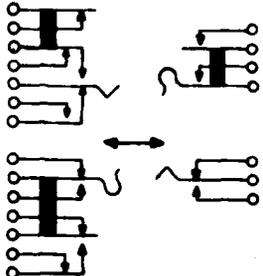
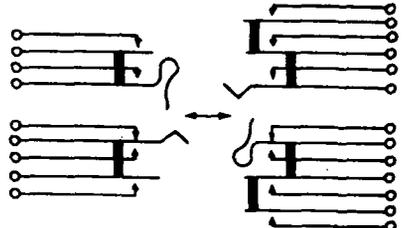
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

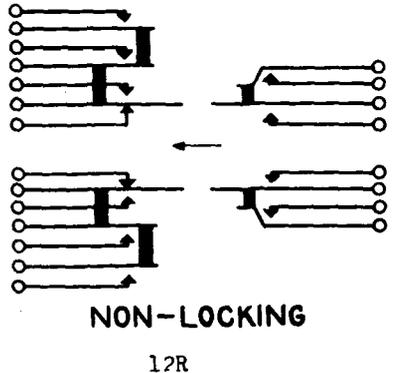
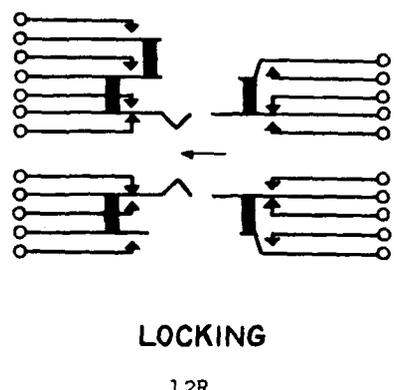
C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
20	C1LU	 <p>LOCKING 4R, 12R, 1B, 14B, 20B</p>	2AJE BLACK			
20	C1MH	 <p>NON-LOCKING 4R, 12R, 1B</p>	(d) 2AMC BLACK			
21	C1GU	 <p>LOCKING 12R</p>	2GD BLACK			

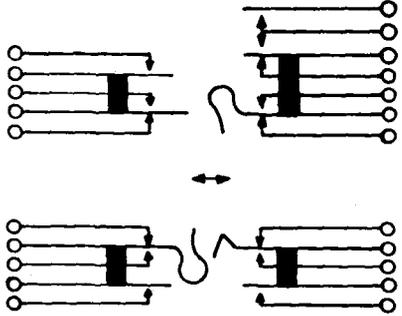
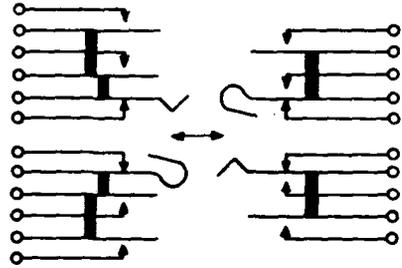
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
21	C1LJ	 <p>LOCKING 4R, 12R, 1B</p>	2ADJ BLACK			
21	C1NN	 <p>LOCKING 4R, 12R, 2B</p>	2ATP BLACK			
22	C1AE	 <p>LOCKING 4R, 12R, 70B</p>	2FB BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
22	C1GL	 <p>NON-LOCKING 12R</p>	2SY BLACK			(dr)
22	C1GN	 <p>LOCKING 12R</p>	2TB BLACK			(dr)

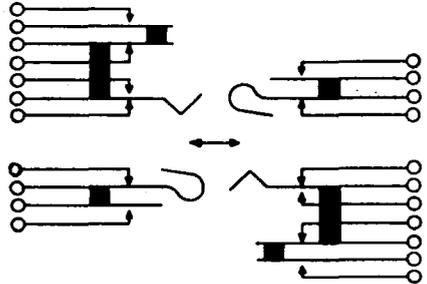
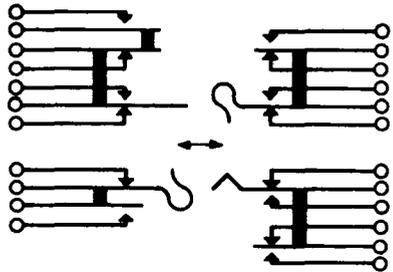
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
22	C1HU	 <p>NON-LOCKING LOCKING 12R, 26B</p>	2YB BLACK	ANS	CALL	
22	C1LD	 <p>LOCKING 4R, 12R, 2B</p>	(d) 2ACG BLACK			

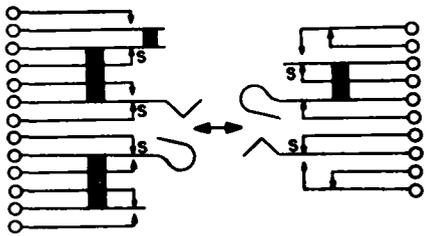
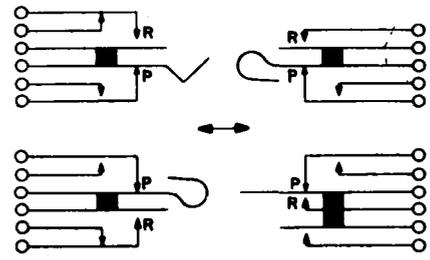
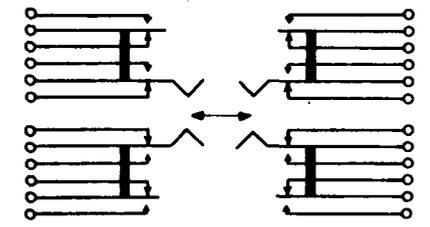
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

Jan 1954

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
22	C1NF	 <p style="text-align: center;">LOCKING 12R</p>	2ARM BLACK			
23	C1GM	 <p style="text-align: center;">NON-LOCKING LOCKING 4R,1B</p>	2TA BLACK			

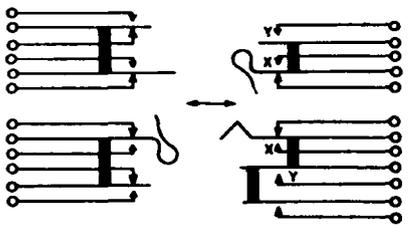
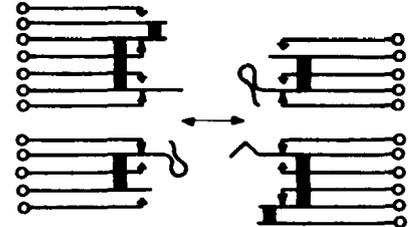
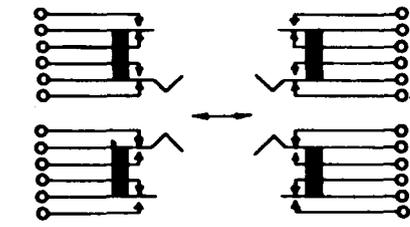
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
23	C1MD	 <p>LOCKING 4R, 23C</p>	2ALY BLACK			
23	C1ND	 <p>LOCKING NON-LOCKING 4R, 12R, 4B</p>	2ARD BLACK			
24	C1S	 <p>LOCKING 12R</p>	2DH BLACK			

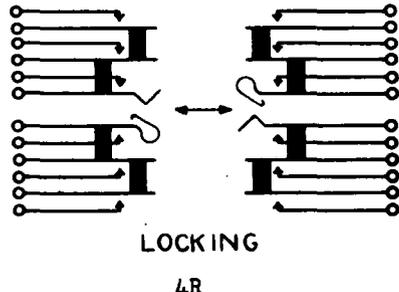
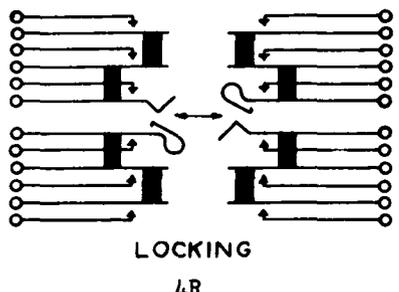
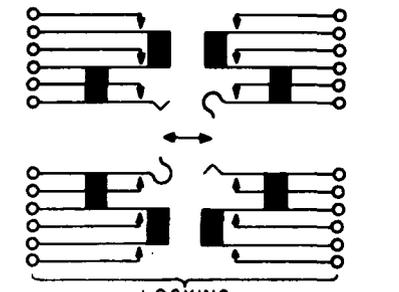
Numbers below schematics refer to requirement exceptions, see page 97
For information referred to in () see Ref. Notes, page 103

Jan 1954

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
24	C1AB	 <p>NON LOCKING 4R, 46B, 47B</p> <p>LOCKING</p>	2EY RED			
24	C1AG	 <p>NON-LOCKING</p> <p>LOCKING</p> <p>12R</p>	2FH BLACK			
24	C1BF	 <p>LOCKING</p> <p>12R</p>	2DF BLACK	(aw) TEL TRANS	(aw) TEL TRANS	

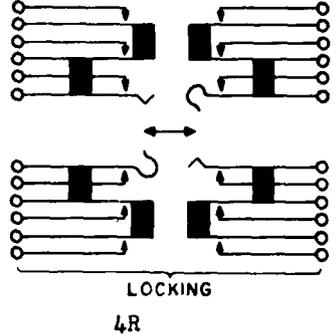
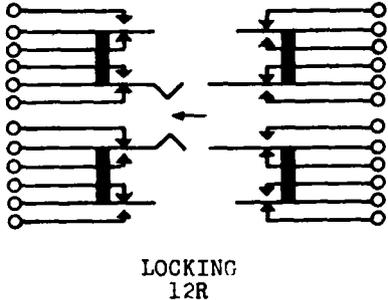
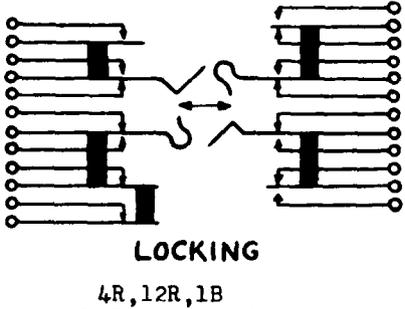
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPCS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
24	C1BR	 <p>LOCKING 4R</p>	2JB BLACK			
24	C1DD	 <p>LOCKING 4R</p>	2JB BLACK	MECH T	MAN T	
24	C1EP	 <p>LOCKING 4R</p>	2JB BLACK	X-1	(bc)	

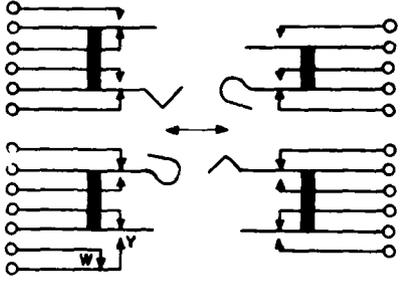
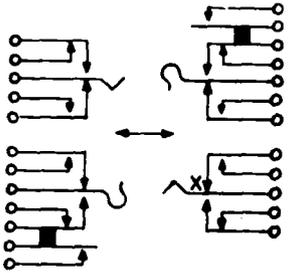
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

C1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
24	C1ER	 <p>LOCKING 4R</p>	2JB BLACK	X-2	(bd)	
24	C1FU	 <p>LOCKING 12R</p>	2SH BLACK			(dr)
24	C1JT	 <p>LOCKING 4R, 12R, 1B</p>	2YL BLACK			

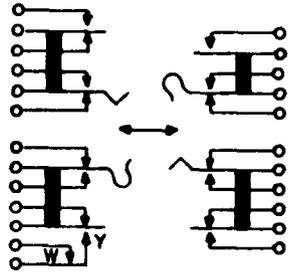
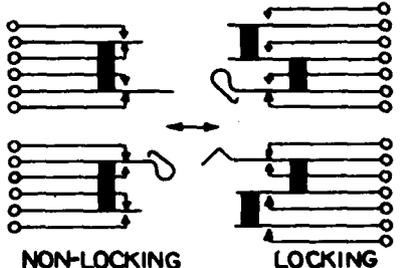
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
24	C1KY	 <p>LOCKING 4R, 12R 2B, 5B</p>	2ABW BLACK			
24	C1NT	 <p>LOCKING 4R, 12R, 1B, 25B, 26B</p>	2ANW WHITE			

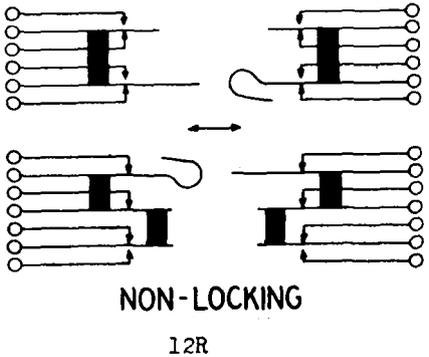
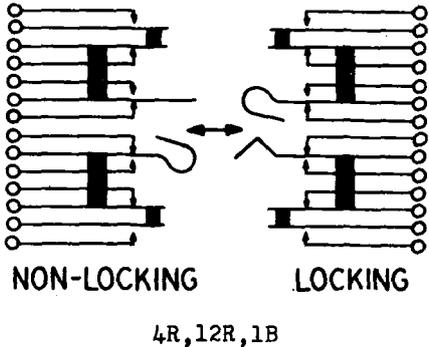
Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

Jan 1954

C1 Keys (Contd.)

CONT. SFGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
24	C1NU	 <p>LOCKING 4R, 12R, 2B, 5B</p>	2ABW BLACK	(ax) H	R	
26	C1BJ	 <p>NON-LOCKING LOCKING</p>	2AEA RED	T	R	

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

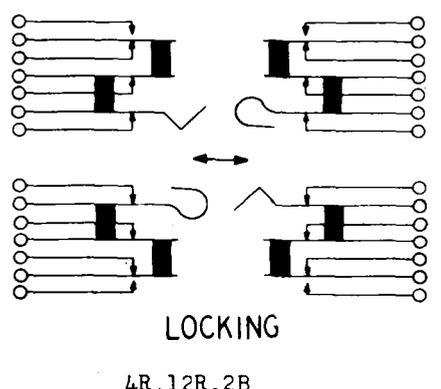
CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
26	C1NE	 <p>NON-LOCKING 12R</p>	2ARL BLACK			
28	C1ME	 <p>NON-LOCKING LOCKING 4R, 12R, 1B</p>	(d) 2AMD BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

X-75506

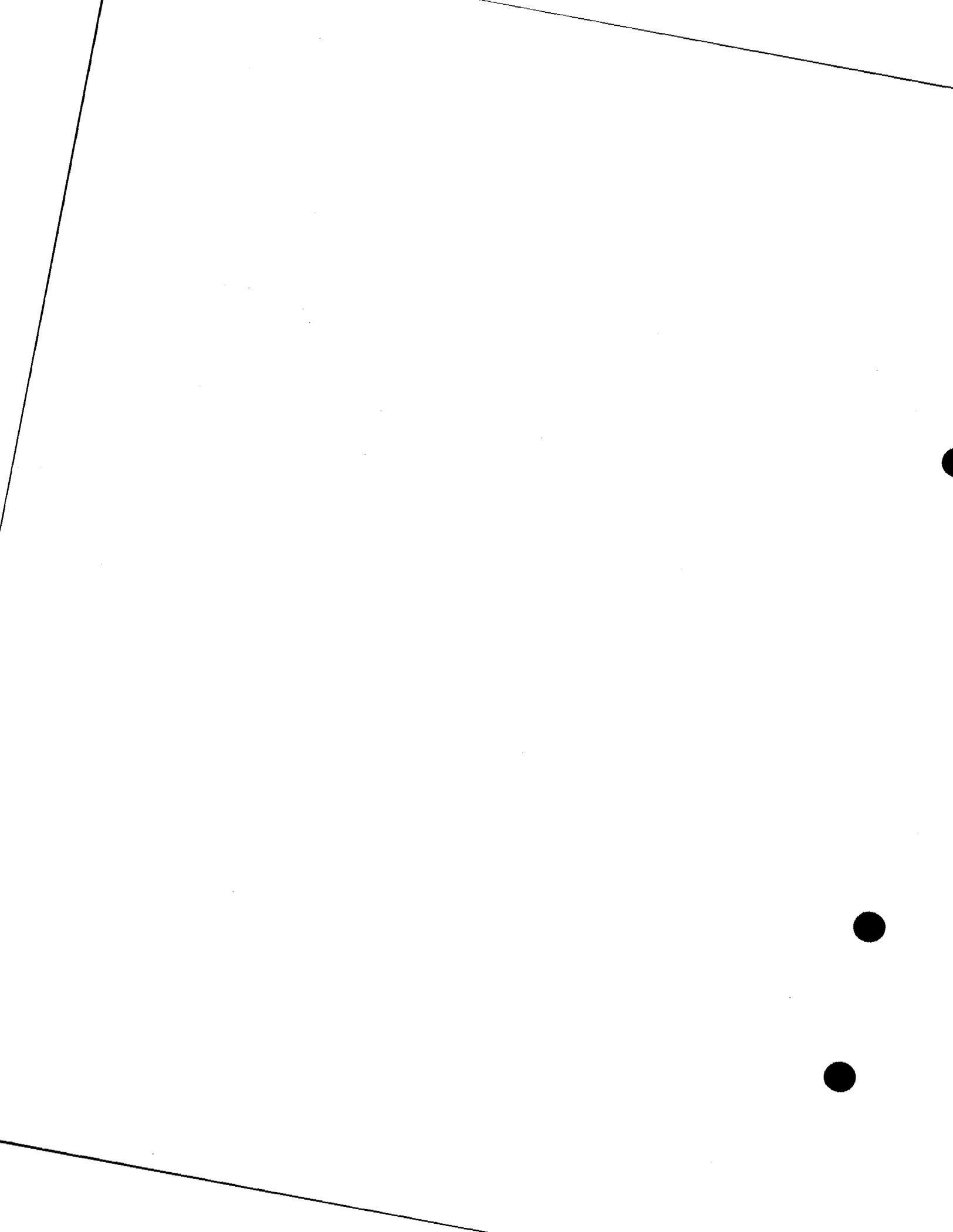
Jan 1954

C1 Keys (Contd.)

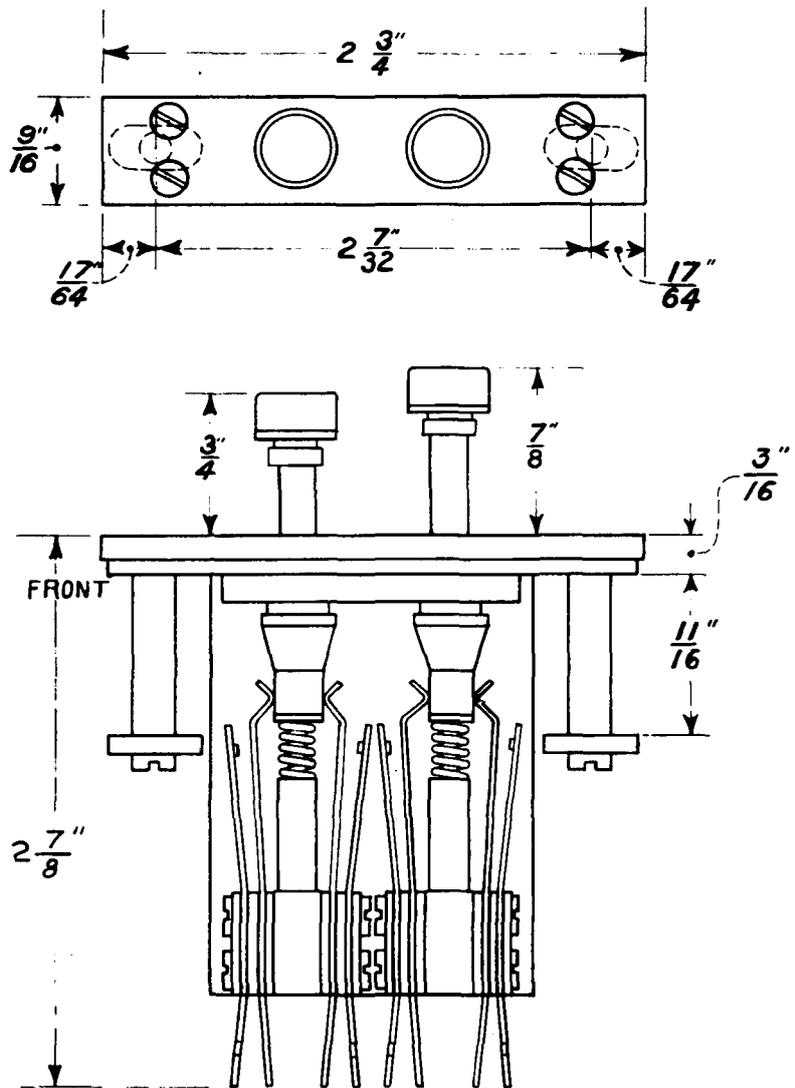
CONT. SPGS.	CODE	SCHEMATIC	KEY UNIT	(au) ENGRAVING		REF. NOTES
				REAR	FRONT	
28	C1NC	 <p style="text-align: center;">LOCKING</p> <p style="text-align: center;">4R, 12R, 2B</p>	2ARC BLACK			

Numbers below schematics refer to requirement exceptions, see page 97
 For information referred to in () see Ref. Notes, page 103

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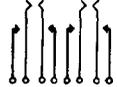
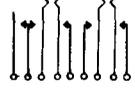


C2-TYPE KEYS

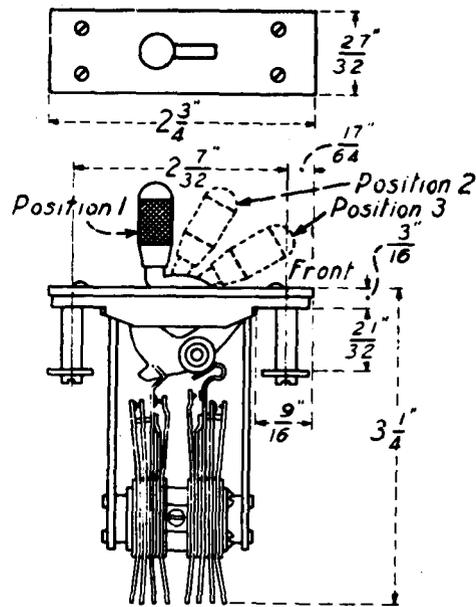


X-75506

C2A Also General Design and Dimensions of C2 Type
These keys are equipped with two nonlocking push buttons.

CONT. SPGS.	CODE	POSITIONS EQUIPPED AND BUTTON COLOR		SCHEMATIC
		FRONT	REAR	
4	C2G		Red	 NON-LOCKING
	C2H		White	
	C2J		Green	
	C2W	Red		
	C2Y	White		
	C2AA	Green		
5	C2N	Red		 NON-LOCKING.
	C2P	White		
	C2R	Green		
8	C2S	Red	Red	 NON-LOCKING
	C2T	White	White	
	C2U	Green	Green	
9	C2K	Red	Red	 NON-LOCKING
	C2L	White	White	
	C2M	Green	Green	

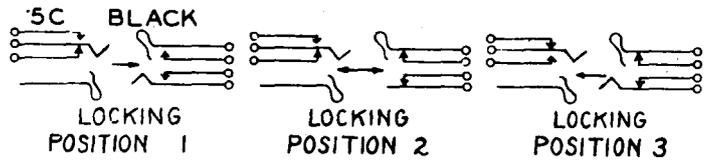
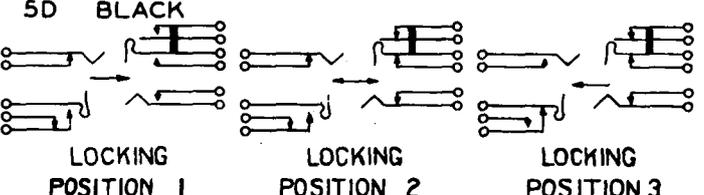
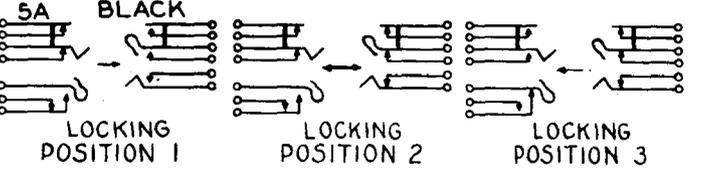
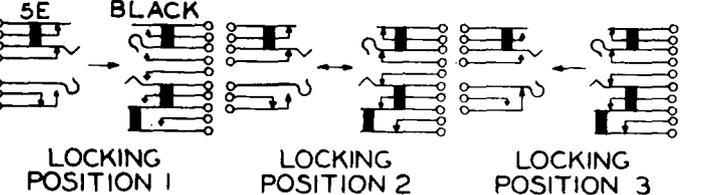
C3-TYPE KEYS



C3A Also General Design and Dimensions of C3 Type

These keys are equipped with one 3-position 1-way lever-type key units.
A No. 38B shield can be used with these keys.

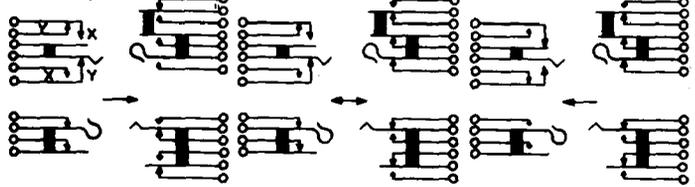
X-75506

CONT. SPGS.	CODE	SCHEMATIC
7	C3C	 <p>5C BLACK</p> <p>LOCKING POSITION 1 LOCKING POSITION 2 LOCKING POSITION 3</p>
11	C3D	 <p>5D BLACK</p> <p>LOCKING POSITION 1 LOCKING POSITION 2 LOCKING POSITION 3</p>
13	C3A	 <p>5A BLACK</p> <p>LOCKING POSITION 1 LOCKING POSITION 2 LOCKING POSITION 3</p>
17	C3E	 <p>5E BLACK</p> <p>LOCKING POSITION 1 LOCKING POSITION 2 LOCKING POSITION 3</p>

CONT. SPGS.	CODE	SCHEMATIC
17	C3F	<p>5F(du) BLACK</p> <p>LOCKING POSITION 1 LOCKING POSITION 2 LOCKING POSITION 3</p>
17	C3G	<p>5M(dk,dl) BLACK</p> <p>LOCKING POSITION 1 LOCKING POSITION 2 LOCKING POSITION 3</p>
19	C3H	<p>5N(dm,dp) BLACK</p> <p>LOCKING POSITION 1 LOCKING POSITION 2 LOCKING POSITION 3</p>

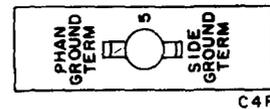
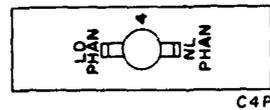
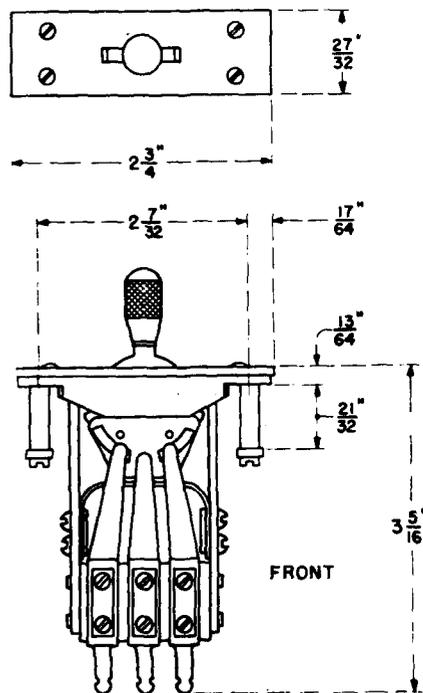
(dk) - P contact shall break before R contact breaks.
 (dl) - X contact shall break before W and Y contacts break.
 (dm) - X contacts shall break before Y contacts break.

(dn) - X contacts shall break before Z contacts make.
 (dp) - Standard nonclick requirement shall not apply to Y contacts.
 (du) - Each X contact shall break before the Y contact in the same spring pile-up breaks.

CONT. SPGS.	CODE	SCHEMATIC
23	C3J	<p data-bbox="880 349 1067 381">5R(dq) BLACK</p>  <p data-bbox="901 576 1046 625">LOCKING POSITION 1</p> <p data-bbox="1129 576 1274 625">LOCKING POSITION 2</p> <p data-bbox="1357 576 1502 625">LOCKING POSITION 3</p>

(dq) - Both X contacts shall make before either Y contacts break.

C4-TYPE KEYS



C4C Also General Design and Dimensions of C4 Type

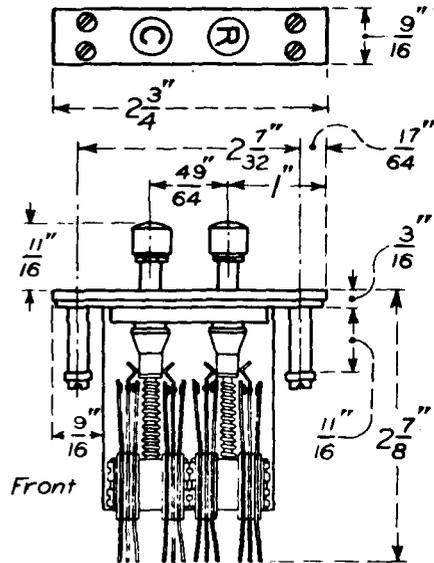
These keys are equipped with one anticapacity lever-type key unit. The unit consists of six contact springs (arranged in two transfer sets) that make sliding contact with contacts on the lever assembly. All contacts are coin silver.

The key performs the same functions as a double-pole double-throw switch.

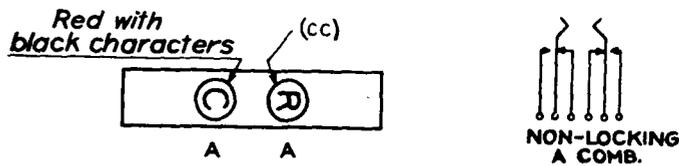
The mutual conductance between adjacent springs on the same side of the key when the lever is in the unoperated position is maximum 0.0015 micromhos at 1000 cycles.

X-75506

C5B1, 2, AND 3 KEY



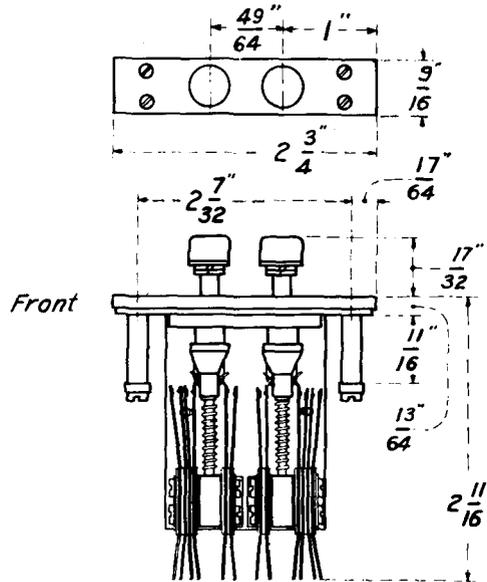
C5B Also General Design and Dimensions of C5 Type



This key is equipped with two nonlocking push buttons having No. 2 metal contacts.

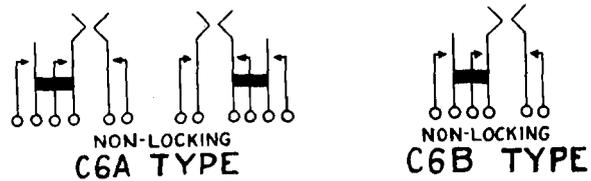
- (cc) - 1 - Red with black character,
 2 - White with black character,
 3 - Black with white character.

C6-TYPE KEYS



C6A1 Also General Design and Dimensions of C6 Type

X-75506



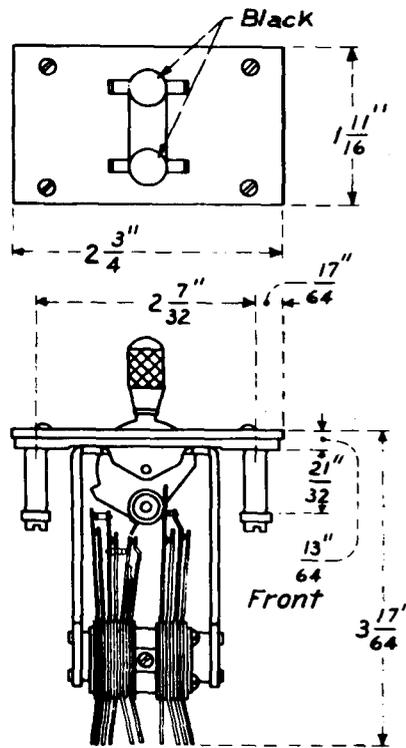
These keys are equipped with one or two nonlocking push buttons.

Equipped Position & Button Color

<u>Cont.</u> <u>SEGS.</u>	<u>Code</u>	<u>Front</u>	<u>Rear</u>
6	C6B1	Red	
	C6B2	White	
	C6B3	Green	
12	C6A1	Red	Red
	C6A2	White	White
	C6A3	Green	Green



C7-TYPE KEYS



X-75506

These keys are equipped with two lever-type key units whose handles are connected together so that the key units operate as one.



X-75506

CONT. SPGS.	CODE	SCHEMATIC
32	C7D	<p style="text-align: center;">4R,12R,1B</p> <p style="text-align: center;">NO. 2-JP KEY UNIT</p> <p style="text-align: center;">NO. 2-HE KEY UNIT NON LOCKING</p> <p style="text-align: center;">4R,12R,1B</p>

CONT. SPGS.	CODE	SCHEMATIC
40	C7A	<p style="text-align: center;">4R,12R</p> <p style="text-align: center;">NO. 2-AEG KEY UNIT</p> <p style="text-align: center;">NO. 2-AEG KEY UNIT LOCKING</p> <p style="text-align: center;">4R,12R</p>

4R - Standard sequence requirement does not apply.
12R - Standard nonclick requirement does not apply.

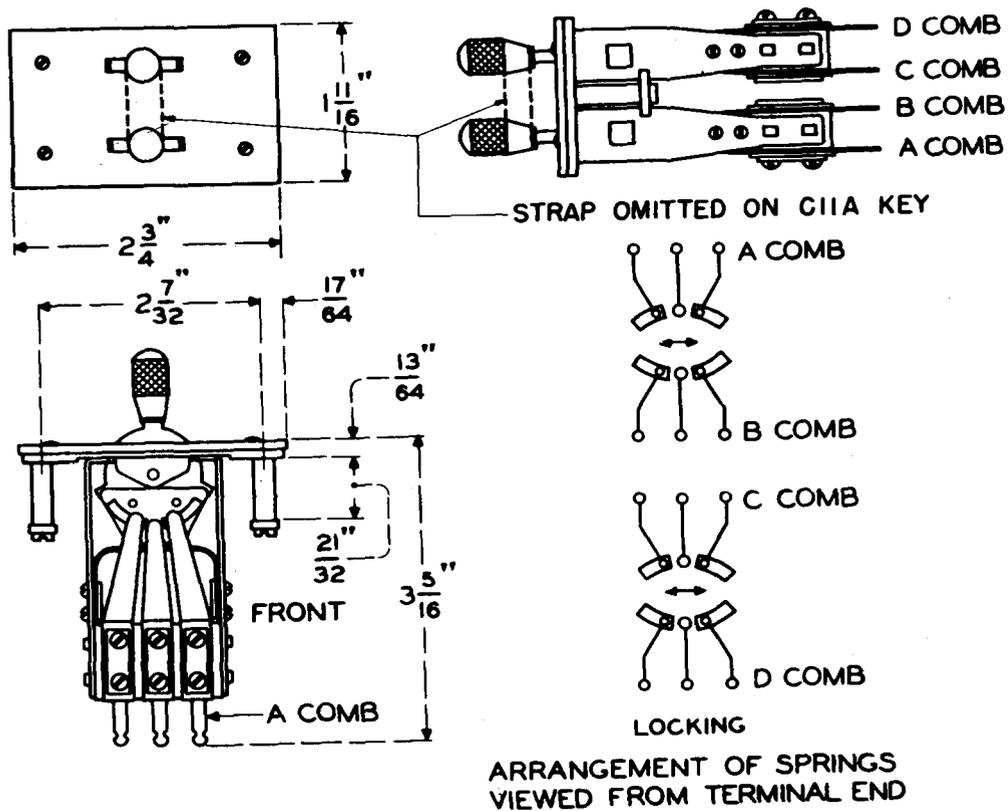
1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.

CONT. SPGS.	CODE	SCHEMATIC
48	C7B	<p style="text-align: center;">4R,12R,1B</p> <p style="text-align: center;">4R,12R,1B</p>

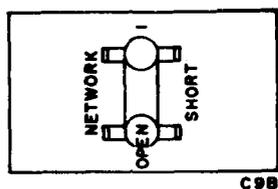
4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.



C9-TYPE KEYS

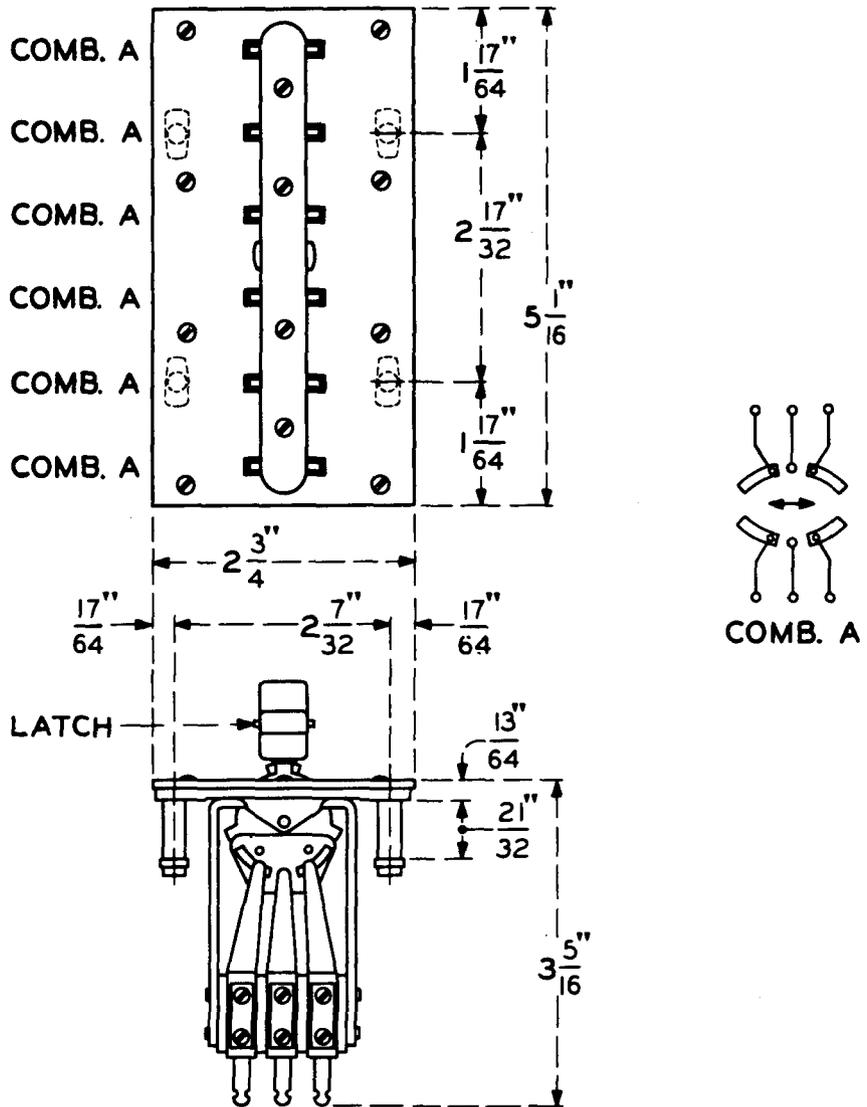


C9A and C11A Also General Design and Dimensions of C9 and C11 Types



These keys are equipped with two lever-type anticapacity key units, similar to those in the C4-type keys (see page 387). The key unit handles are connected together so that the units operate as one. All contacts are coin silver.

C10-TYPE KEYS

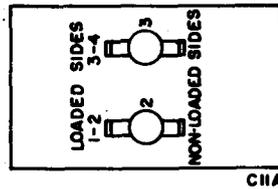


X-75506

These keys are equipped with six lever-type anticapacity key units, similar to those in the C4-type keys (see page 387). The key units are operated simultaneously by a single handle. All contacts are coin silver.

The keys are designed to lock in certain positions.

C11A KEY

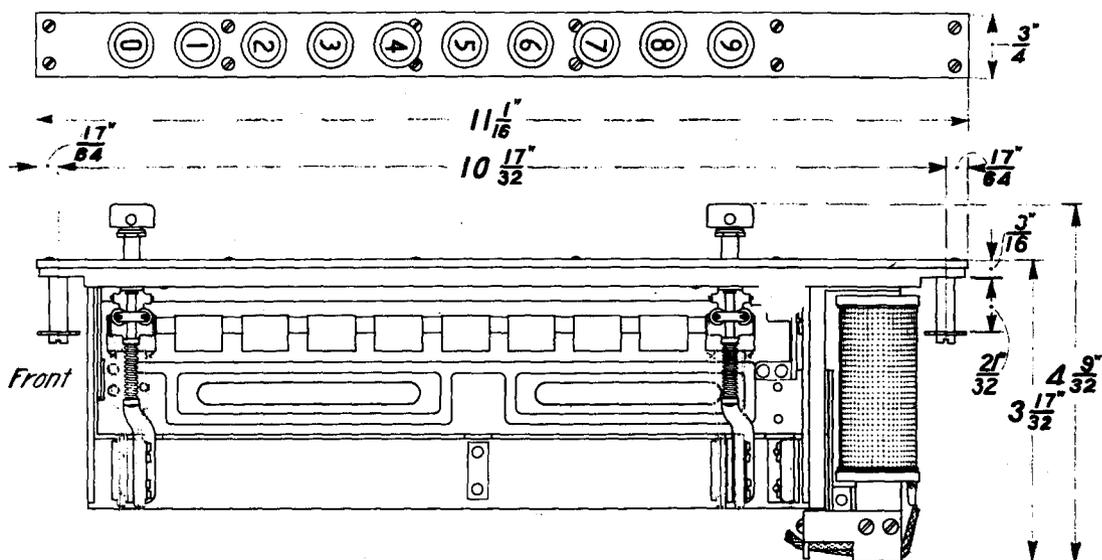


(See Information on C9-type Keys)

This key is equipped with two lever-type anticapacity key units, similar to those in the C4-type keys (see page 387). This key is the same as the C9A key except for the keytop engraving and the omission of the strap locking the two key units together.

All contacts are coin silver.

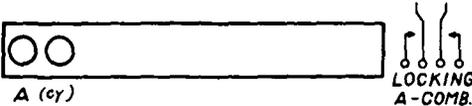
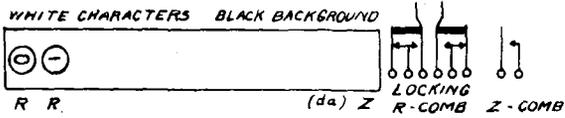
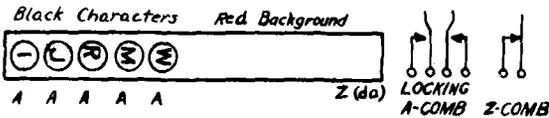
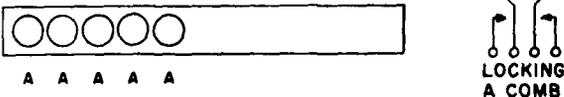
E1-TYPE KEYS



E1AJ Also General Design and Dimensions of E1 Type

These keys are equipped with from one to ten metal frame push buttons as indicated under individual codes. All locking push buttons are released by the operation of any other locking button or by an electrically operated restoring magnet whose coil has a resistance of 300 ohms $\pm 5\%$ and an operating amperage of 0.135.

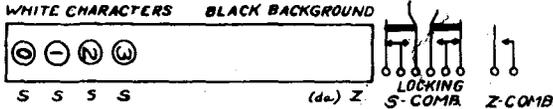
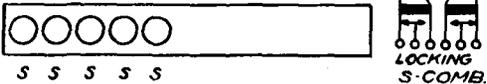
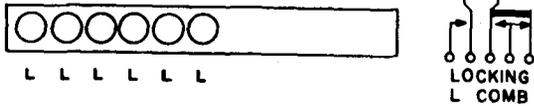
X-75506

CONT. SPGS.	CODE	TOP VIEW AND SCHEMATIC
4	E1CJ(dw)	
6	E1BT(dw)	
12	E1BW(dw)	
20	E1CN(dw)	
20	E1DJ(db)	

- (cy) - Button shown without spring combination is for releasing use only.
 (da) - Local contact Z is arranged to be operated by locking plate whenever a push button is depressed.

- (db) - Marking, color of background, and characters must be specified.
 (dw) - Has restoring coil.

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CONT. SPGS.	CODE	TOP VIEW AND SCHEMATIC
24	E1CC(dw)	<p>WHITE CHARACTERS BLACK BACKGROUND</p>  <p>S S S S (da) Z LOCKING S-COMB Z-COMB</p>
26	E1CP	<p>Red Characters White Background</p>  <p>AB AB C L L L L NON-LOCKING LOCKING LOCKING AB-COMB C-COMB L-COMB</p>
30	E1CY(db, du, dw)	 <p>S S S S S LOCKING S-COMB</p>
30	E1DL(db)	 <p>L L L L L L LOCKING L-COMB</p>

- (da) - Local contact Z is arranged to be operated by locking plate whenever a push button is depressed.
- (db) - Marking, color of background, and characters must be specified.

- (du) - Closed contacts operated by any operating spring shall break before open contacts operated by the same operating spring make.
- (dw) - Has restoring coil.

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E1 Keys (Contd.)

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CONT. SPGS.	CODE	TOP VIEW AND SCHEMATIC
32	E1DK(db)	
36	E1AU(db, dw)	<p>CHARACTER AND COLOR OF BUTTONS AS SPECIFIED</p>
37	E1CS(du, dw)	<p>Black Characters Red Background Red Characters White Background</p>
39	E1AP	<p>BLACK CHARACTERS RED BACKGROUND</p>
40	E1AJ(d, dw)	<p>WHITE CHARACTERS BLACK BACKGROUND</p>

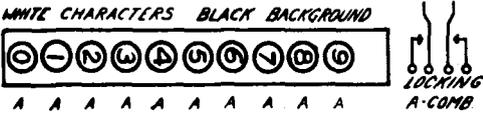
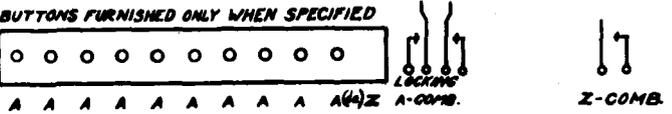
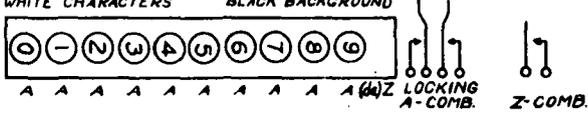
(d) - No. 2 metal contacts.

(da) - Local contact Z is arranged to be operated by locking plate whenever a push button is depressed.

(db) - Marking, color of background, and characters must be specified.

(du) - Closed contacts operated by any operating spring shall break before open contacts operated by the same operating spring make.

(dw) - Has restoring coil.

CONT. SPGS.	CODE	TOP VIEW AND SCHEMATIC
40	E1AM	<p>WHITE CHARACTERS BLACK BACKGROUND</p>  <p>A A A A A A A A A A A A</p> <p>LOCKING A-COMB</p>
40	E1AS(dc, dw)	<p>BUTTONS FURNISHED ONLY WHEN SPECIFIED</p>  <p>A A A A A A A A A A A A (da)Z</p> <p>LOCKING A-COMB. Z-COMB.</p>
40	E1BG(dw)	<p>BLACK LETTERS RED FIGURES WHITE BACKGROUND</p>  <p>A A A A A A A A A A A A</p> <p>LOCKING A-COMB.</p>
40	E1BJ(dw)	<p>WHITE CHARACTERS BLACK BACKGROUND</p>  <p>A A A A A A A A A A A A (da)Z</p> <p>LOCKING A-COMB. Z-COMB.</p>
48	E1CK(db)	 <p>A A A A A U U U U B Z (da)</p> <p>LOCKING A-COMB. NON-LOCKING B-COMB. NON-LOCKING U-COMB. Z-COMB.</p>

- (da) - Local contact Z is arranged to be operated by locking plate whenever a push button is depressed.
- (db) - Marking, color of background, and characters must be specified.

- (dc) - Equipped with buttons only when specified. When buttons are ordered, marking, color of background, and characters must be specified.
- (dw) - Has restoring coil.

CONT. SPGS.	CODE	TOP VIEW AND SCHEMATIC
51	E1AT(db, dw)	<p>CHARACTER AND COLOR OF BUTTONS AS SPECIFIED.</p> <p>A J S S S S S B B B LOCKING NON-LOCKING LOCKING NON-LOCKING A-COMB. B-COMB. J-COMB. S-COMB.</p>
56	E1CH(dw)	<p>WHITE CHARACTERS BLACK BACKGROUND</p> <p>AA AA AA AA AA AA AA (da) Z LOCKING AA-COMB. Z-COMB.</p>
60	E1AL(dw)	<p>WHITE CHARACTERS BLACK BACKGROUND</p> <p>T T T T T T T T T Z (da) LOCKING T-COMB. Z-COMB.</p>
60	E1BK(dc)	<p>BUTTONS FURNISHED ONLY WHEN SPECIFIED</p> <p>U U U U U U U U U U NON LOCKING U-COMB</p>
60	E1BU(dw)	<p>WHITE CHARACTERS BLACK BACKGROUND</p> <p>T T T T T T T T T Z (da) LOCKING T-COMB. Z-COMB.</p>

(d) - No. 2 metal contacts.

(da) - Local contact Z is arranged to be operated by locking plate whenever a push button is depressed.

(db) - Marking, color of background, and characters must be specified.

(dc) - Equipped with buttons only when specified.

When buttons are ordered marking, color of background, and characters must be specified.

(dw) - Has restoring coil.

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El Keys (Contd.)

CONT. SPCS.	CODE	TOP VIEW AND SCHEMATIC
60	E1BY(dw)	<p>WHITE CHARACTERS BLACK BACKGROUND</p> <p>R R R R R R R R R R(da)Z LOCKING R-COMB. Z-COMB.</p>
60	E1CB(dw)	<p>WHITE CHARACTERS BLACK BACKGROUND</p> <p>R R R R R R R R R R Z(da) LOCKING R-COMB. Z-COMB</p>
60	E1CG	<p>WHITE CHARACTERS BLACK BACKGROUND</p> <p>T T T T T T T T T T LOCKING T-COMB</p>
61	E1CT(du, dw)	<p>White Characters-Black Background</p> <p>L L L AC L AC AC W L AC Z(da) LOCKING L-COMB AC-COMB LOCKING W-COMB Z-COMB</p>
61	E1CU(du, dw)	<p>Black Letters- Red Numbers White Background</p> <p>L L L AC L L AC AC W AC Z(da) LOCKING L-COMB AC-COMB LOCKING W-COMB Z-COMB Red Characters-white Background.</p>

(da) - Local contact Z is arranged to be operated by locking plate whenever a push button is depressed.

(du) - Closed contacts operated by any operating spring shall break before open contacts operated by the same operating spring make.

(dw) - Has restoring coil.

CONT. SPGS.	CODE	TOP VIEW AND SCHEMATIC
61	E1CW(du, dw)	<p><i>White Characters Black Background.</i></p> <p>L L L AC L L AC AC W AC Z(da)</p> <p>LOCKING L-COMB AC-COMB W-COMB Z-COMB</p>
79	E1DB(du)	<p><i>BLACK CHARACTERS RED NUMERALS WHITE BACKGROUND</i></p> <p>W W W AC W W W W W W (dd)</p> <p>LOCKING W-COMB LOCKING AC-COMB</p>
80	E1BD(dw)	<p><i>WHITE CHARACTERS BLACK BACKGROUND</i></p> <p>W W W W W W W W W Z(da) W-COMB Z-COMB</p> <p>LOCKING W-COMB Z-COMB</p>
80	E1CA(dw)	<p><i>WHITE CHARACTERS BLACK BACKGROUND</i></p> <p>W W W W W W W W W Z(a) W-COMB Z-COMB</p> <p>LOCKING W-COMB Z-COMB</p>
80	E1CL	<p><i>White Characters Black Background</i></p> <p>W W W W W W W W W W</p> <p>LOCKING W-COMB</p>

- (da) - Local contact Z is arranged to be operated by locking plate whenever a push button is depressed.
- (dd) - These buttons lock when simultaneously depressed and release when any other button is operated.

- (du) - Closed contacts operated by any operating spring shall break before open contacts operated by the same operating spring make.
- (dw) - Has restoring coil.

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CONT. SPGS.	CODE	TOP VIEW AND SCHEMATIC
80	E1CR (dw)	<p style="text-align: center;">White Characters Black Background</p>  <p style="text-align: center;">AA AA AA AA AA-AA AA AA AA AA Z(da) LOCKING AA-COMB Z-COMB</p>

Jan 1954

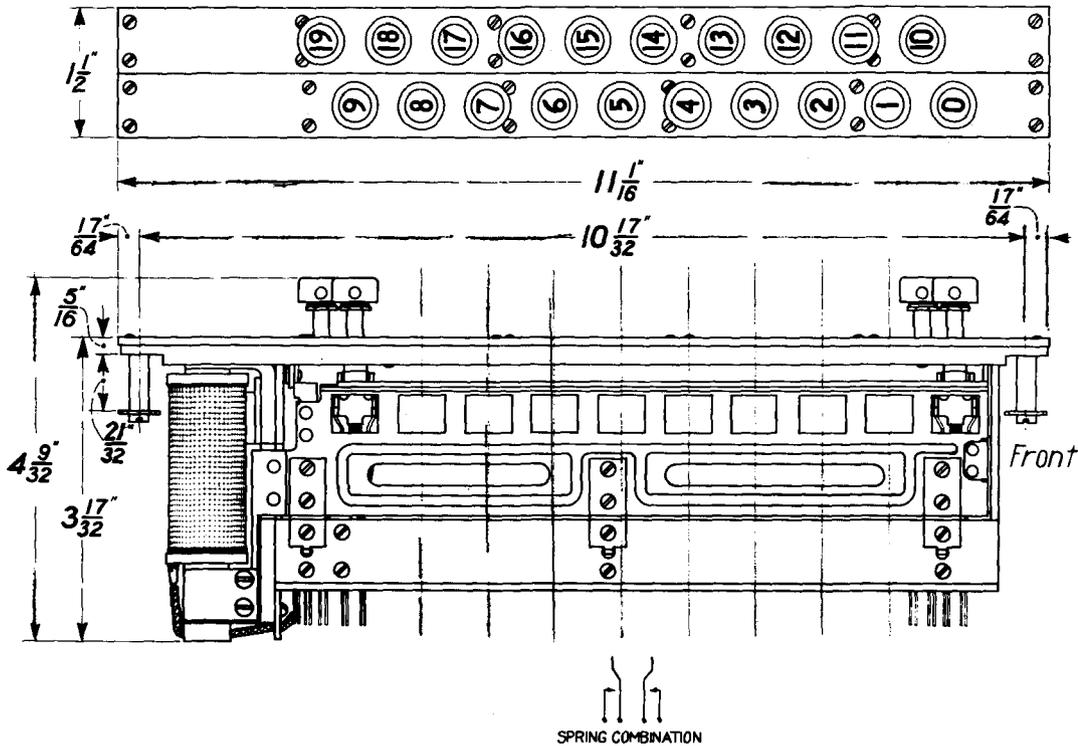
E1 Keys (Contd.)

(da) - Local contact Z is arranged to be operated by locking plate whenever a push button is depressed.

(dw) - Has restoring coil.

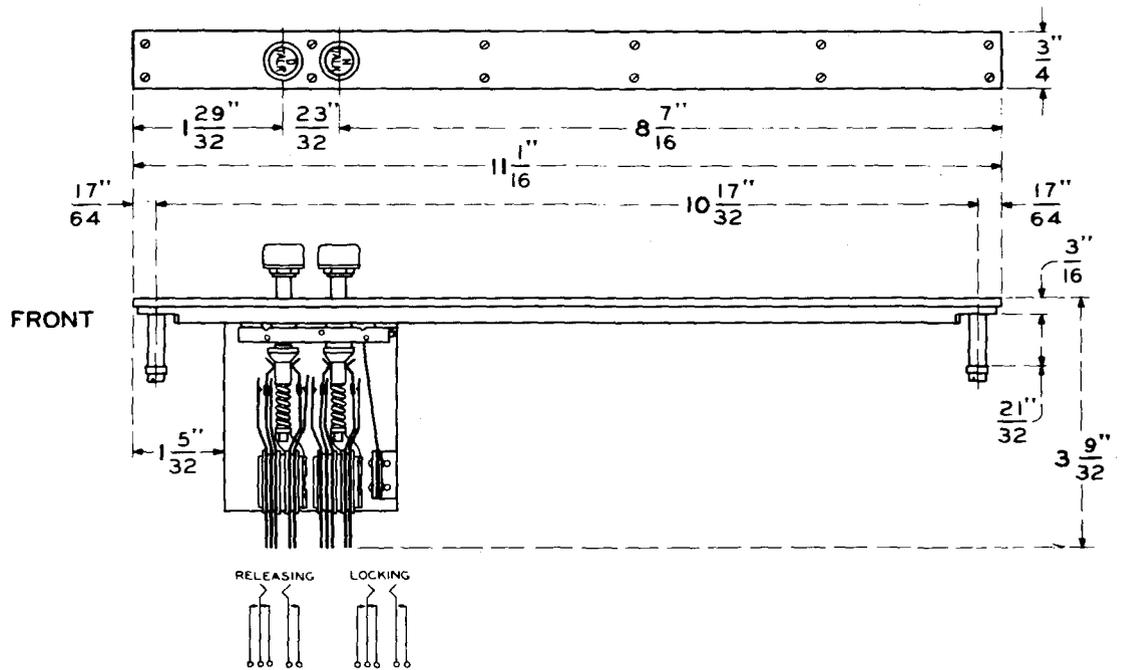
407

E2B KEY



This key is equipped with 20 metal frame push buttons. Each push button operates two make contacts, is arranged to lock when depressed, and is released by the operation of any other button, or by an electrically operated restoring magnet whose coil has a resistance of 300 ohms $\pm 5\%$ and an operating amperage of 0.135. Characters 0-9 on button are black on red background and characters 10-19 are black on white background.

E5A KEY

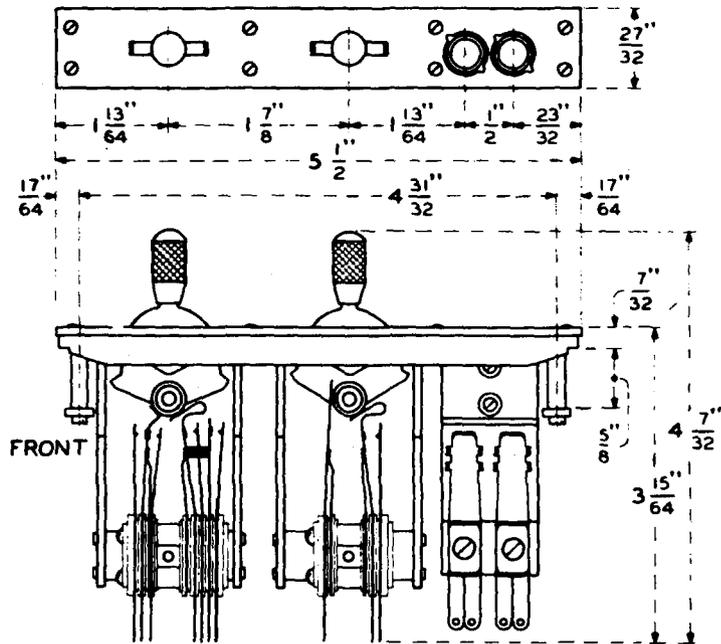


This key is equipped with two molded metal frame push buttons. The releasing button, when operated, releases the locking button if locked and returns to normal position. Rear button (locking button) has white letters on black background and front button has black letters on white background. In the front push button, normally open contacts shall make before normally closed contacts break.

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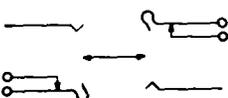
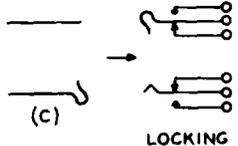
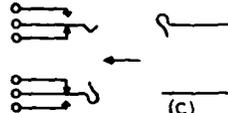
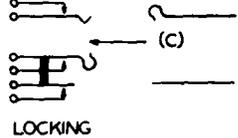
G1-TYPE KEYS



G1A Also General Design and Dimensions of G1 Type

These keys, arranged to mount in a universal-type keyshelf having single mounting bars, are equipped with one or two lever-type key units and lamp sockets (two maximum) arranged for No. 2-type lamp caps, as indicated under individual codes. A No. 38J shield can be used with these keys.

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CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS	
		FRONT	REAR			
4	G1T	 <p>LOCKING 4R,12R</p>		2ARW BLACK	FRONT REAR	
6	G1E		 <p>(C) LOCKING 4R,12R,1B</p>		2ABK BLACK	
6	G1F	 <p>LOCKING 4R,12R,1B</p>		 <p>W2ACP BLACK TRNS</p>		
6	G1U		 <p>(C) LOCKING 4R,12R</p>		2ABH BLACK	REAR

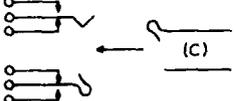
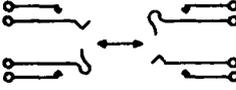
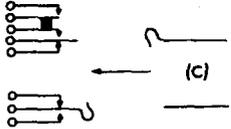
(C) - Cushion springs to reduce noise.
(d) - No. 2 metal contacts.

For exceptions see page 421.

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April 1961

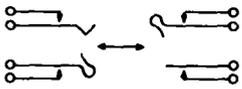
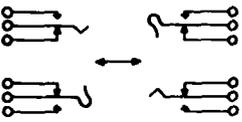
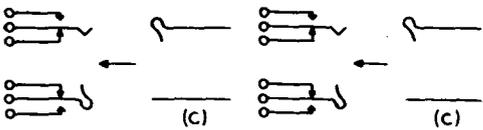
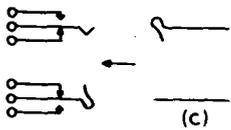
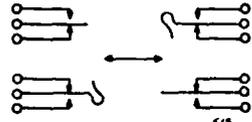
G1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
6	G1AF	 <p>LOCKING 12R, 1B</p>		 <p>2ABK BLACK</p>	
8	G1D	 <p>LOCKING 4R</p>		2BF BLACK	REAR
8	G1J	 <p>NON-LOCKING 4R, 12R</p>	 <p>NON-LOCKING 4R, 12R</p>	2JK RED 2JK RED	
8	G1W		 <p>NON-LOCKING 4R, 12R, 2B</p>	2ATB RED	REAR

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(C) - Cushion springs to reduce noise.

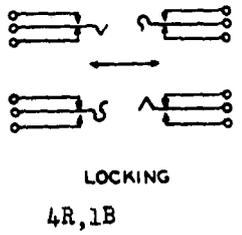
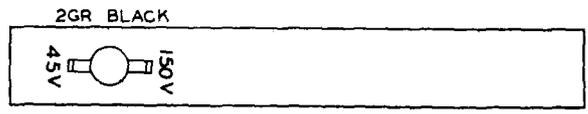
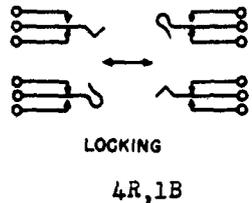
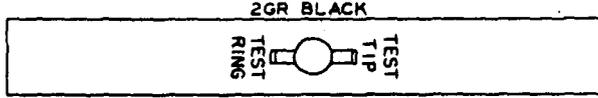
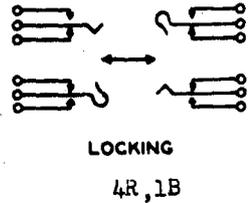
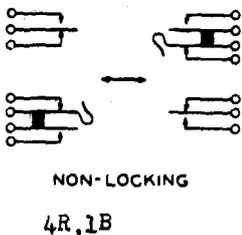
For exceptions see page 421.

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
8	G1AD		 <p>LOCKING NON-LOCKING</p> <p>4R,12R</p>	2CU BLACK	
12	G1C	 <p>LOCKING</p> <p>4R,1B</p>		2GR BLACK	
12	G1G	 <p>LOCKING (C)</p> <p>4R,12R,1B</p>	 <p>LOCKING (C)</p> <p>4R,12R,1B</p>	2ABK BLACK 2ABK BLACK	
12	G1S	 <p>NON-LOCKING</p>		<p>(F) 2ARG BLACK</p> 	

(C) - Cushion springs to reduce noise.
(F) - Heavy contacts.

For exceptions see page 421.

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CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
12	G1AB				
12	G1AN				
12	G1AR			2GR WHITE	
14	G1AJ			(F)2AUA RED	

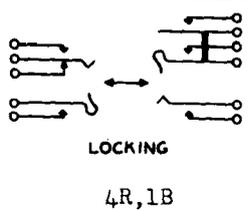
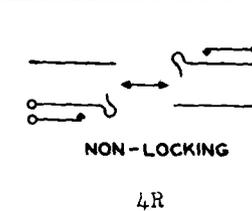
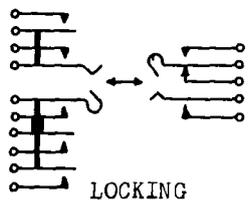
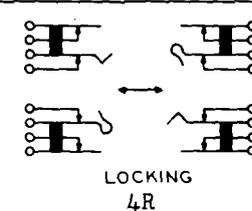
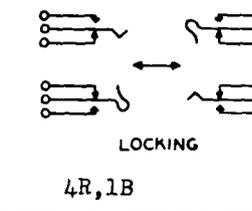
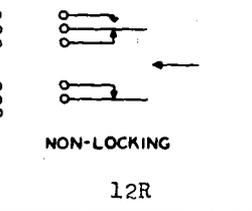
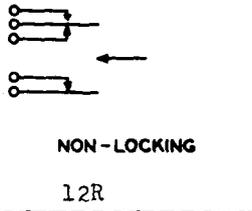
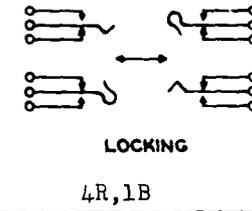
Jan 1954

G1 Keys (Contd.)

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(F) - Heavy contacts.

For exceptions see page 421.

CONT. SPGS	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
15 15	G1A G1AT(by)	 <p>LOCKING 4R, 1B</p>	 <p>NON-LOCKING 4R</p>	2AJM BLACK 2SP RED	FRONT REAR
15	G1BA	 <p>LOCKING 4R, 1B</p>		<p>2ATC BLACK</p> 	FRONT REAR
16	G1AC	 <p>LOCKING 4R</p>		(F) 2ATF BLACK	
17	G1B	 <p>LOCKING 4R, 1B</p>	 <p>NON-LOCKING 12R</p>	2GR BLACK (F) 2AAT RED	
17	G1AP	 <p>NON-LOCKING 12R</p>	 <p>LOCKING 4R, 1B</p>	(F) 2AAT RED 2GR WHITE	

(F) - Heavy contacts.

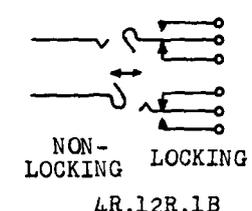
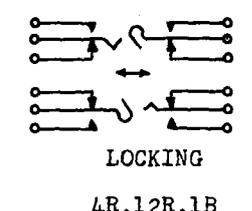
(by) - Has ticket clip at front.

For exceptions see page 421

April 1961

GI Keys (Contd.)

416A

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
18	G1AU	 <p>NON-LOCKING LOCKING 4R,12R,1B</p>	 <p>LOCKING LOCKING 4R,12R,1B</p>	<p>2ABK BLACK 2GR RED</p>	

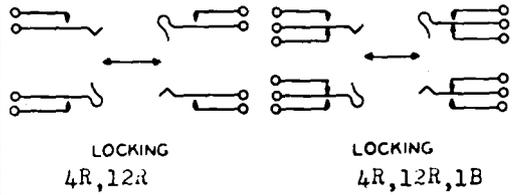
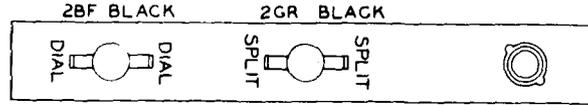
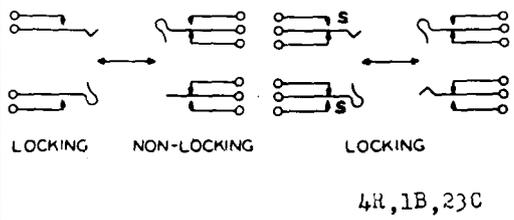
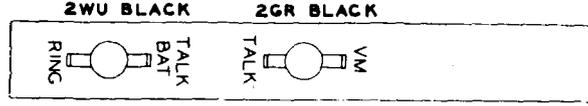
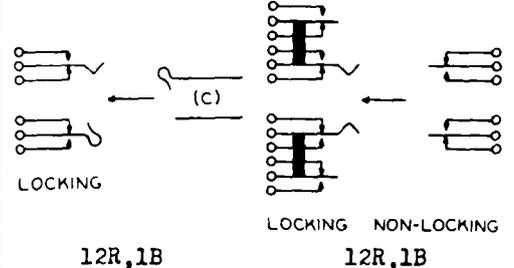
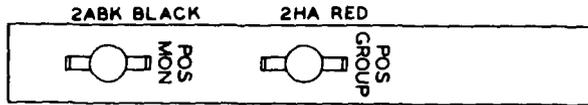
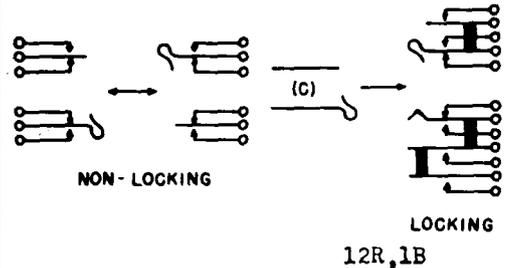
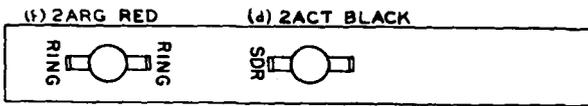
For exceptions see page 421



Jan 1954

G1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
18	G1M	<p>LOCKING 4R, 12R, 1B, 23C</p> <p>LOCKING 4R, 12R, 1B, 23C</p>	<p>2AL BLACK MA 10</p> <p>2GR BLACK TALK VM</p>		
18	G1AE	<p>LOCKING NON-LOCKING 4R, 12R, 1B</p> <p>LOCKING NON-LOCKING 4R, 12R, 1B</p>	<p>(F)2ATG BLACK</p> <p>(F)2ATG BLACK</p>	FRONT REAR	
18	G1AL	<p>LOCKING 4R, 12R, 1B</p>	<p>2HA RED GROUP POS</p>		
20	G1P	<p>NON-LOCKING 4R, 12R</p> <p>LOCKING 4R, 12R, 1B</p>	<p>2AEC BLACK K</p> <p>2GR BLACK SPLIT</p>		

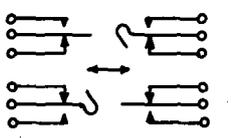
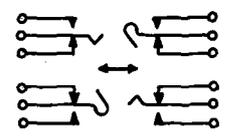
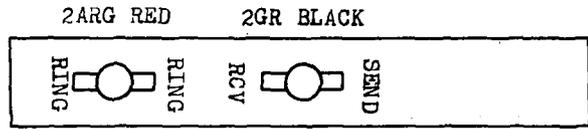
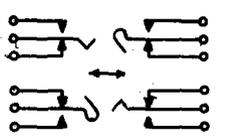
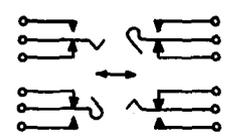
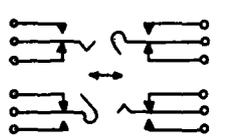
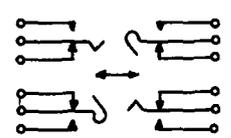
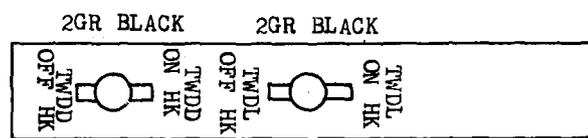
CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
20	G1R	 <p>LOCKING 4R, 12R</p> <p>LOCKING 4R, 12R, 1B</p>	 <p>2BF BLACK 2GR BLACK</p> <p>DIAL DIAL SPLIT SPLIT</p>		
22	G1K	 <p>LOCKING NON-LOCKING</p> <p>LOCKING</p> <p>4R, 1B, 23C</p>	 <p>2WU BLACK 2GR BLACK</p> <p>RING TALK BATT TALK VM</p>		
24	G1AG	 <p>LOCKING</p> <p>(c)</p> <p>LOCKING NON-LOCKING</p> <p>12R, 1B 12R, 1B</p>	 <p>2ABK BLACK 2HA RED</p> <p>POS MON POS GROUP</p>		
24	G1AK	 <p>NON-LOCKING</p> <p>(c)</p> <p>LOCKING</p> <p>12R, 1B</p>	 <p>(f) 2ARG RED (d) 2ACT BLACK</p> <p>RING RING SDR</p>		

(C) - Cushion springs to reduce noise.
 (d) - No. 2 metal contacts.

(F) - Heavy contacts.
 For exceptions see page 421.

April 1961

G1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
24	G1AY	 <p>NONLOCKING 4R,12R,1B</p>	 <p>LOCKING 4R,12R,1B</p>		
24	G1BC	 <p>LOCKING 4R,1B</p>	 <p>LOCKING 4R,1B</p>	<p>2GR BLACK 2GR BLACK</p>	
24	G1BD	 <p>LOCKING 4R,12R,1B</p>	 <p>LOCKING 4R,12R,1B</p>		

418A

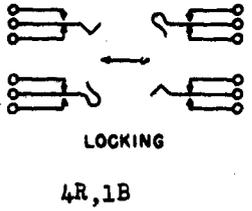
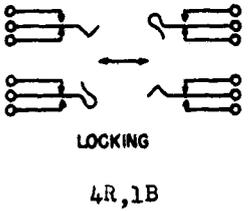
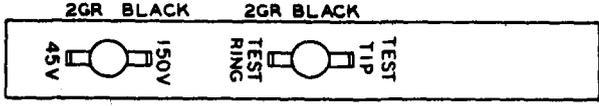
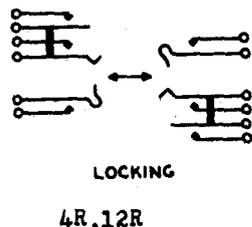
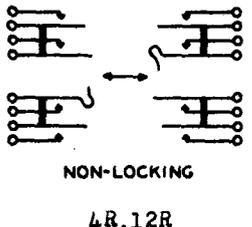
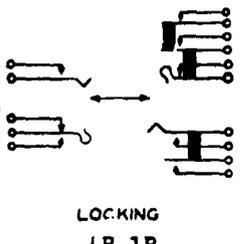
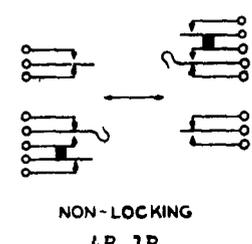
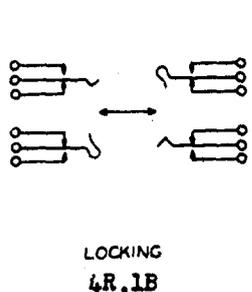
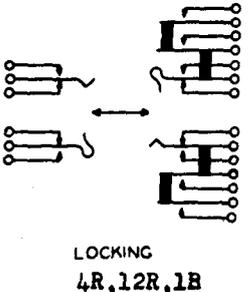
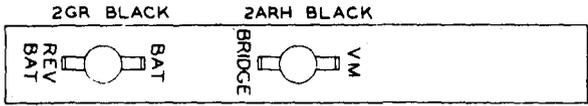
For exceptions see page 421.



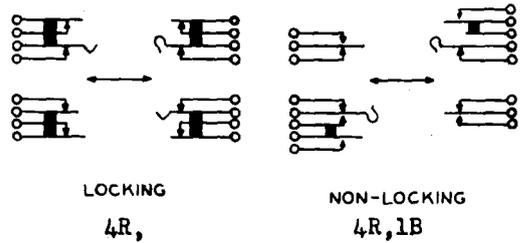
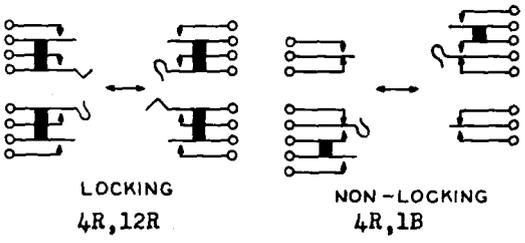
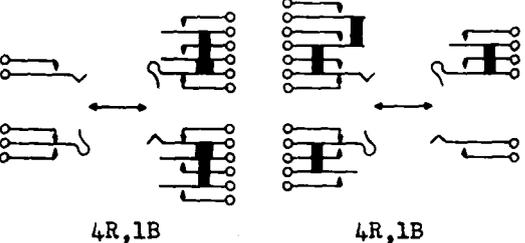
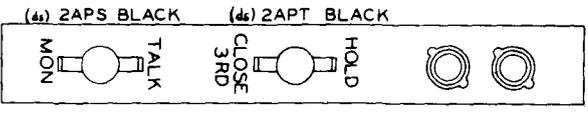
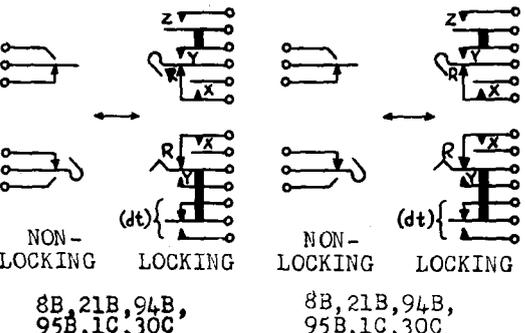
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Jan 1954

G1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW		EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR			
24	G1AM	 <p>LOCKING 4R,1B</p>	 <p>LOCKING 4R,1B</p>			
28	G1H	 <p>LOCKING 4R,12R</p>	 <p>NON-LOCKING 4R,12R</p>	2GN BLACK	2ARE BLACK	
31	G1Y	 <p>LOCKING 4R,1B</p>	 <p>NON-LOCKING 4R,1B</p>	2ATC BLACK	2ATD RED	FRONT REAR
32	G1L	 <p>LOCKING 4R,1B</p>	 <p>LOCKING 4R,12R,1B</p>			

For exceptions see page 421.

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
32	G1AA	 <p>LOCKING 4R,</p> <p>NON-LOCKING 4R, 1B</p>	<p>2ATF BLACK 2ATD BLACK</p>		
32	G1AS	 <p>LOCKING 4R, 12R</p> <p>NON-LOCKING 4R, 1B</p>	<p>2LL BLACK 2AW RED</p>	FRONT REAR	
35	G1N	 <p>4R, 1B 4R, 1B</p>	 <p>(ds) 2APS BLACK (ds) 2APT BLACK</p> <p>NON TALK HOLD</p> <p>3RD CLOSE</p>		
38	G1AW	 <p>NON-LOCKING (dt) LOCKING</p> <p>NON-LOCKING (dt) LOCKING</p> <p>8B, 21B, 94B, 95B, 1C, 30C 8B, 21B, 94B, 95B, 1C, 30C</p>	<p>(a) 2AUD BLACK (a) 2AUD BLACK</p>	FRONT REAR	

(a) - Contacts without arrowheads are arranged for ringing only.
 (ds) - Nonclick requirement need apply only to the one transfer and one make combination of 2APS key unit and the three make combination of 2APT key unit.

(dt) - Closed contacts shall break before its associate open contacts make.
 For exceptions see page 421.

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G1 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC		TOP VIEW	EQUIPPED WITH LAMP SOCKETS IN POSITIONS
		FRONT	REAR		
39	G1AH	<p>NON-LOCKING LOCKING 8B, 21B, 94B 95B, 1C, 30C</p>	<p>NON-LOCKING LOCKING 8B, 29B, 22C, 30C</p>	(a) 2AUD BLACK (a) 2AJD BLACK	FRONT REAR
48	G1BB	<p>LOCKING 4R, 12R, 1B 4R, 12R, 1B</p>	<p>2APG BLACK 2APG BLACK</p> <p>MON TEST DIAL LINE DIAL DROP</p>	FRONT REAR	

(a) - Contacts without arrowheads are arranged for ringing only. (dt) - Closed contacts shall break before its associated open contacts make

For exceptions see page 421.



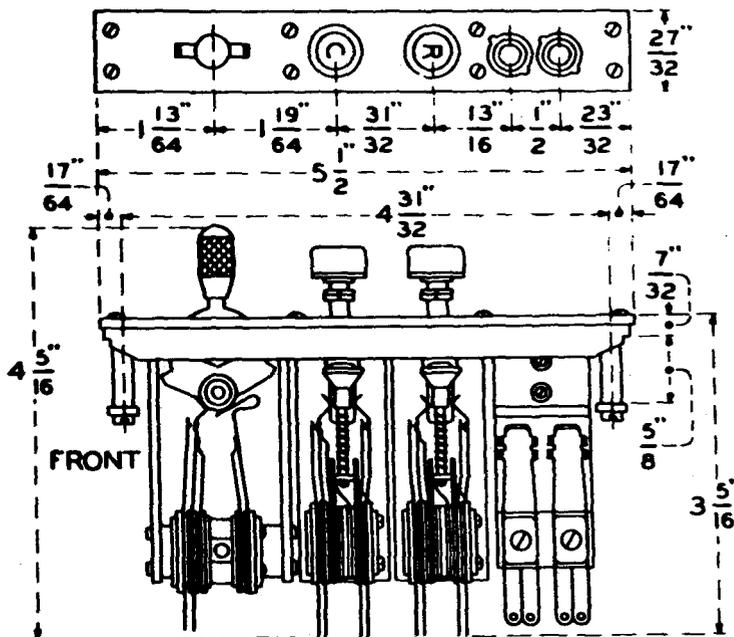
EXCEPTIONS TO STANDARD REQUIREMENTS

- 4R - Standard sequence requirement does not apply.
- 12R - Standard nonclick requirement does not apply.
- 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
- 2B - Closed contacts in each set of break-before-make contacts shall break before its associated open contacts make.
- 8B - Standard sequence requirement applies only to contacts of nonlocking spring combinations.
- 21B - Both Y contacts shall make before either X contact makes.
- 29B - Exception 1B shall apply only to the locking combinations.
- 94B - Both R contacts shall break before Z contact makes.
- 95B - Both X contacts shall make before either R contact breaks.
- 1C - Standard nonclick requirement applies only to contact of nonclicking spring combination.
- 22C - Standard nonclick requirement does not apply to normally closed contacts of the nonlocking spring combination.
- 23C - Standard nonclick requirement applies only to S contacts.
- 30C - Deterioration allowance for nonclick adjustment requirement.

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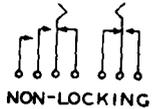
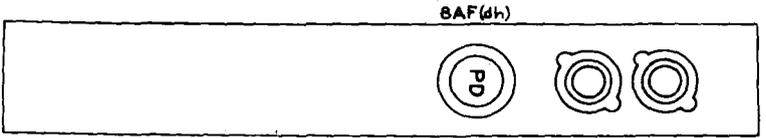
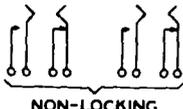
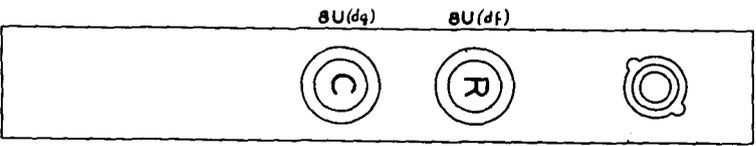
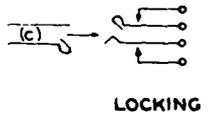
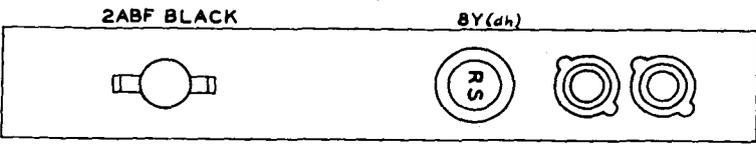
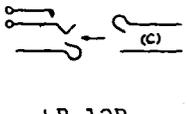
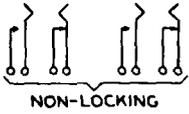
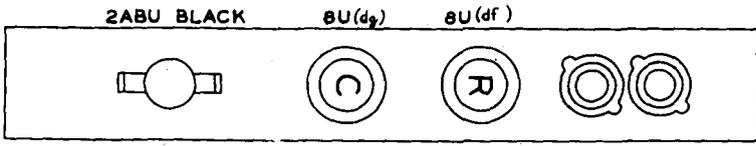
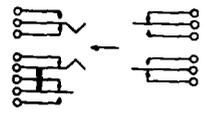
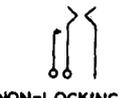
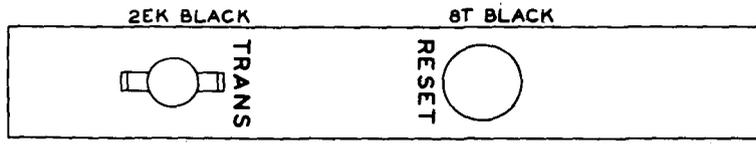
G2-TYPE KEYS



G2A Also General Design and Dimensions of G2 Type

These keys, arranged to mount in a universal-type keyshelf having single mounting bars, are equipped with lever-type key units, one or two push buttons and lamp sockets (two maximum) arranged for No. 2-type lamps as indicated under individual codes. Maximum equipment is shown in illustration. A No. 38K shield can be used with these keys.

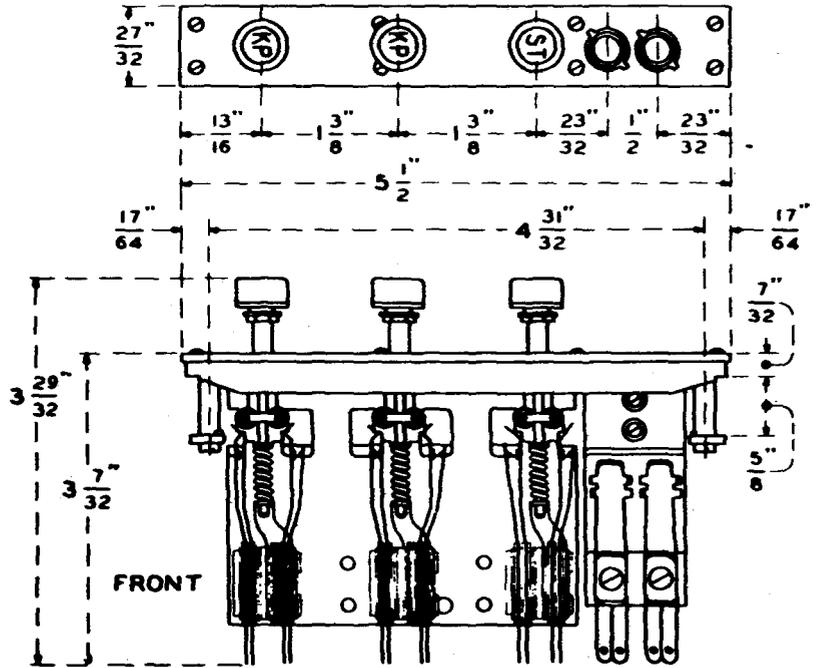
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CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW		
			FRONT	MIDDLE	REAR
7	G2E	 NON-LOCKING		 8AF(dh)	
8	G2B	 NON-LOCKING		 8U(dg) 8U(df)	
8	G2D(de)	 LOCKING 4R,12R	 NON-LOCKING	 2ABF BLACK 8Y(dh)	
10	G2A(de)	 LOCKING 4R,12R	 NON-LOCKING	 2ABU BLACK 8U(dg) 8U(df)	
16	G2C(de)	 LOCKING 4R,12R,1B	 NON-LOCKING	 2EK BLACK 8T BLACK	

4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.
 (C) - Cushion springs to reduce noise.

(de) - Equipped with a No. 38K shield when specified.
 (df) - White characters on black background.
 (dg) - Black characters on red background.
 (dh) - Black characters on white background.

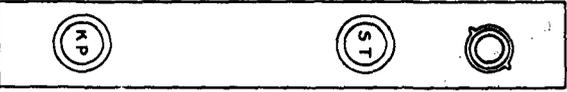
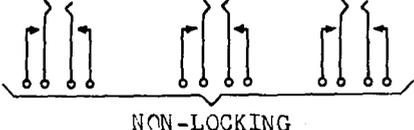
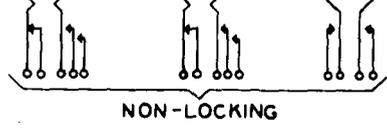
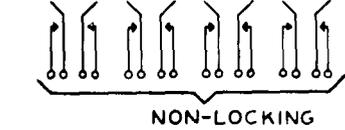
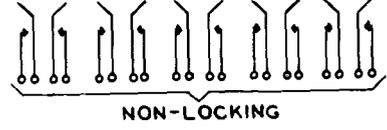
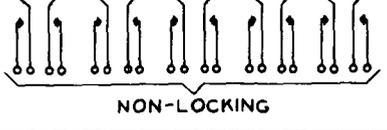
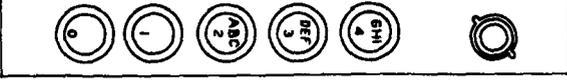
G3-TYPE KEYS



G3B Also General Design and Dimensions of G3 Type

These keys, arranged to mount in a universal-type keyshelf having single mounting bars, are equipped with push buttons (five maximum) and lamp sockets (two maximum) arranged for No. 2-type lamp caps as indicated under the individual codes. They are equipped with molded plastic buttons having black characters on a white background unless otherwise specified. A No. 38L shield can be used with these keys.

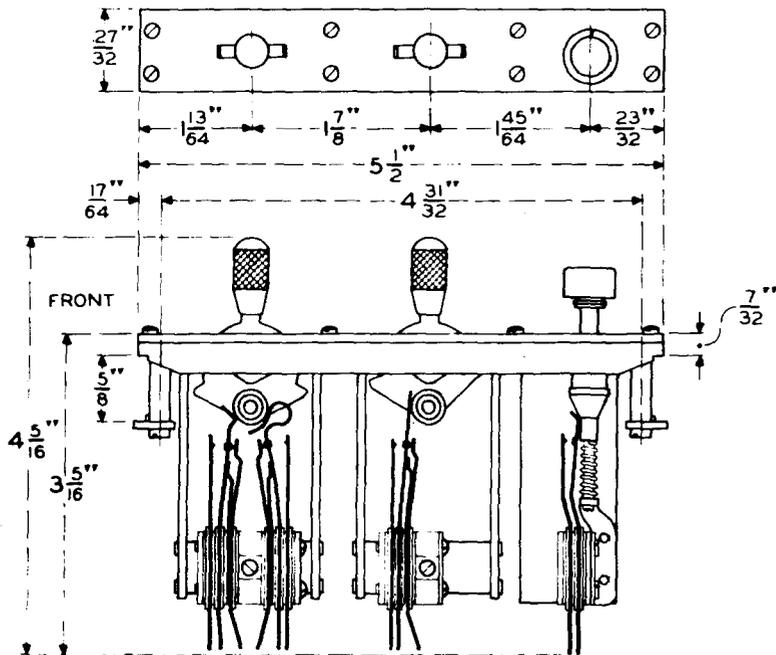
X-75506

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW
10	G3J (e)		
12	G3K (F)		
14	G3B (e)		
16	G3H (F,di)		
20	G3C (e)		
20	G3D (e)		

(e) - Heavy No. 2 metal contacts.
(F) - Heavy metal contacts.

(di) - Button marking must be specified.

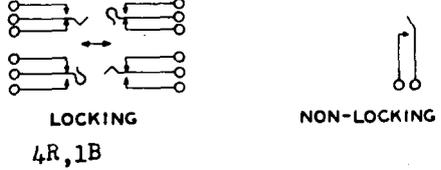
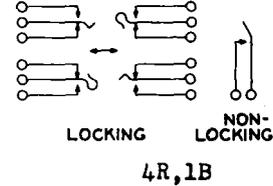
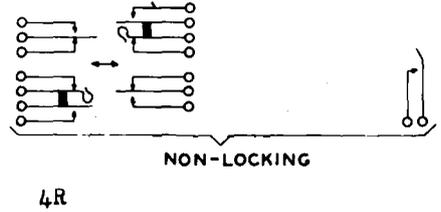
G6-TYPE KEYS



G6C Also General Design and Dimensions of G6 Type

These keys, arranged to mount in a universal-type keyshelf having single mounting bars, are equipped with lever-type key units (two maximum) and one push button equipped with a blank black insert as indicated under the individual codes. Contacts are heavy No. 1 metal unless otherwise indicated.

X-75506

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW	
			FRONT	CENTER
2	G6B	 NON-LOCKING		
14	G6D	 LOCKING 4R, 1B NON-LOCKING	(d)2C BLACK	
14	G6F (dj)	 LOCKING NON-LOCKING 4R, 1B		(d)2C WHITE
16	G6A	 NON-LOCKING 4R	2AUA RED	

4R - Standard sequence requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.

(d) - No. 2 metal contacts.
 (dj) - Equipped with a No. 38J shield when specified.

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G6 Keys (Contd.)

CONT. SPGS.	CODE	SCHEMATIC	TOP VIEW	
			FRONT	CENTER
19	G6C	<p>The schematic for G6C shows two sets of three contacts. The left set is labeled 'LOCKING 1B' and shows a spring mechanism where the top contact is closed and the bottom two are open. The right set is labeled 'NON-LOCKING 12R, 1B' and shows a spring mechanism where the top contact is closed and the bottom two are open, with a separate contact symbol to the right.</p>	(d)2C BLACK	2ATT RED
19	G6E (dj)	<p>The schematic for G6E (dj) shows three contact configurations. The left set is labeled 'NON-LOCKING 4R, 12R, 1B' and shows a spring mechanism where the top contact is closed and the bottom two are open. The middle set is labeled 'LOCKING 4R, 1B' and shows a spring mechanism where the top contact is closed and the bottom two are open. The right set is labeled 'NON-LOCKING' and shows a single contact symbol.</p>	2AAT RED	(d)2C WHITE

4R - Standard sequence requirement does not apply.
 12R - Standard nonclick requirement does not apply.
 1B - Closed contacts in each spring pile-up shall break before open contacts in the same pile-up make.

(d) - No. 2 metal contacts.
 (dj) - Equipped with a No. 38J shield when specified.

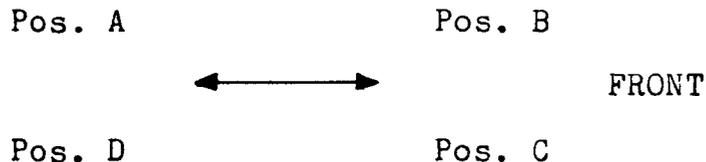


2-TYPE KEY UNITS

2-type key units consist of contact springs mounted in a metal frame which is equipped with a lever and a plunger. Handles are not part of the key unit assembly. When 2-type key units are supplied separately, they do not necessarily have the same spring adjustment as units of the same code that form part of a key.

This engineering reference data bulletin lists 2-type key units arranged alphabetically and showing the number of springs per unit, and a similar list of the key units arranged numerically by number of springs and showing the spring combinations in each quadrant.

Illustrations of the various spring combinations used in the key units also are shown. The combinations in the key units and their positions are listed as shown below. These positions are as viewed from the wiring or terminal side.



Combinations A and D (shown in numerical list) are operated when the key lever is moved toward the front and combinations B and C are operated when the lever is moved toward the rear.

THE LISTING OF KEY UNITS ON THE FOLLOWING PAGES IS NOT A COMPLETE LISTING OF ALL THE 2-TYPE KEY UNITS, BUT ONLY OF THOSE KEY UNITS SHOWN IN THIS BULLETIN.

CODE	NO. OF SPGS.	CODE	NO. OF SPGS.	CODE	NO. OF SPGS.	CODE	NO. OF SPGS.
2A	6	2BS	14	2FL	8	2JP	12
2B	12	2BT	16	2FM	8		
2C	12	2BU	14	2FN	6	2KA	16
2D	15	2BY	2	2FS	14	2KC	10
2E	24			2FT	6	2KD	11
2F	6	2CA	14	2FW	4	2KM	18
2G	12	2CB	14	2FY	16	2KP	15
2H	18	2CC	14			2KW	2
2J	10	2CE	17	2GA	14		
2L	13	2CH	8	2GC	5	2LB	12
2M	12	2CJ	12	2GD	21	2LE	15
2N	12	2CK	16	2GE	12	2LG	6
2P	13	2CL	9	2GG	10	2LH	12
2R	20	2CN	12	2GH	3	2LK	12
2U	10	2CP	12	2GJ	15	2LL	16
		2CT	14	2GK	17	2LM	14
2AA	12	2CU	8	2GL	8	2LN	12
2AB	12			2GM	11	2LP	12
2AC	12	2DC	14	2GN	12	2LR	14
2AD	12	2DD	14	2GP	6	2LS	3
2AE	3	2DF	12	2GR	12	2LY	16
2AF	18	2DG	14	2GU	16		
2AJ	12	2DH	24	2GW	15	2MB	8
2AK	6	2DJ	20	2GY	12	2MN	10
2AL	6	2DK	16			2MU	5
2AN	18	2DL	14	2HA	18		
2AP	16	2DM	9	2HC	10	2NC	16
2AR	14	2DN	10	2HD	24	2NE	14
2AS	10	2DP	8	2HE	20	2NG	21
2AT	15			2HG	15	2NK	12
2AU	22	2EC	6	2HJ	22	2NL	15
2AW	16	2ED	10	2HK	8	2NM	9
2AY	16	2EE	6	2HL	18	2NP	14
		2EF	7	2HN	2	2NR	21
2BA	10	2EG	2	2HP	20	2NS	16
2BB	14	2EK	14	2HR	14		
2BC	10	2EM	14	2HT	16	2PB	7
2BD	18	2EN	19	2HW	8	2PF	13
2BF	8	2ET	14	2HY	9	2PG	19
2BG	4	2EW	16			2PT	12
2BH	12	2EY	24	2JB	24	2PW	13
2BJ	20			2JE	10	2PY	10
2BL	20	2FA	18	2JH	16		
2BM	12	2FB	22	2JJ	8	2RB	12
2BN	10	2FC	20	2JK	4	2RC	10
2BP	24	2FF	18	2JM	20	2RJ	6
2BR	14	2FH	24	2JN	13	2RK	12

CODE	NO. OF SPGS.	CODE	NO. OF SPGS.	CODE	NO. OF SPGS.	CODE	NO. OF SPGS.
2SG	9	2WL	23	2ABJ	6	2AEC	8
2SH	24	2WN	24	2ABK	6	2AEE	13
2SJ	18	2WP	18	2ABL	9	2AEF	10
2SL	11	2WR	20	2ABM	13	2AEG	20
2SM	16	2WS	19	2ABP	12	2AEK	18
2SN	6	2WT	4	2ABR	24	2AEM	22
2SP	4	2WU	10	2ABT	11		
2SR	20	2WW	5	2ABU	2	2AEP	12
2SS	10	2WY	22	2ABW	24	2AER	14
2SU	6			2ABY	18	2AES	12
2SW	14	2YA	7			2AEU	16
2SY	22	2YB	18	2ACC	10	2AEW	17
		2YC	11	2ACD	8	2AEY	18
2TA	23	2YE	18	2ACE	8		
2TB	22	2YF	18	2ACF	8	2AFA	9
2TD	14	2YG	20	2ACG	22	2AFB	18
2TF	13	2YH	12	2ACH	6	2AFC	26
2TH	18	2YJ	14	2ACJ	10	2AFD	14
2TK	21	2YK	20	2ACK	6	2AFE	17
2TL	8	2YL	24	2ACL	2	2AFF	14
2TS	20	2YM	14	2ACM	10	2AFG	21
2TT	18	2YS	12	2ACN	12	2AFM	24
2TW	15	2YT	16	2ACP	6	2AFN	8
		2YW	18	2ACT	11		
2UB	5			2ACU	3	2AFT	4
2UC	19	2AAA	20	2ACW	4	2AFU	12
2UE	17	2AAB	16	2ACY	9	2AFW	12
2UF	16	2AAE	11			2AFY	12
2UG	18	2AAF	17	2ADA	17		
2UH	6	2AAG	15	2ADC	6	2AGB	22
2UL	14	2AAH	19	2ADD	8	2AGC	24
2UN	12	2AAJ	11	2ADE	14	2AGD	20
2UP	8	2AAK	12	2ADF	12	2AGE	17
2UR	20	2AAN	17	2ADG	10	2AGH	18
2US	6	2AAP	11	2ADH	20	2AGJ	6
2UU	8	2AAR	4	2ADJ	21	2AGL	12
2UW	17	2AAT	5	2ADK	12	2AGM	8
2UY	12	2AAW	14	2ADL	25	2AGN	4
		2AAY	6	2ADM	16	2AGR	10
2WB	10			2ADN	16	2AGT	2
2WD	13	2ABB	12	2ADR	19		
2WE	13	2ABC	12	2ADS	16	2AHC	13
2WF	5	2ABD	12	2ADT	19	2AHD	10
2WG	13	2ABE	8	2ADW	20	2AHE	24
2WH	19	2ABF	4			2AHG	18
2WJ	16	2ABG	7	2AEA	26	2AHH	20
2WK	14	2ABH	6	2AEB	5	2AHM	22

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CODE	NO. OF SPGS.	CODE	NO. OF SPGS.	CODE	NO. OF SPGS.	CODE	NO. OF SPGS.
2AHN	20	2AMW	15	2ASW	10		
2AHP	16			2ASY	10		
2AHS	15	2ANE	12				
2AHU	3	2ANF	9	2ATA	8		
2AHW	16	2ANG	10	2ATB	8		
2AHY	15	2ANM	10	2ATC	15		
		2ANS	9	2ATD	16		
2AJA	7	2ANT	16	2ATF	16		
2AJB	13	2ANU	4	2ATG	9		
2AJD	20	2ANW	24	2ATH	10		
2AJE	20	2ANY	14	2ATJ	3		
2AJF	19			2ATK	23		
2AJG	20	2APA	12	2ATM	9		
2AJH	12	2APC	4	2ATP	21		
2AJJ	17	2APD	12	2ATR	12		
2AJM	11	2APG	24	2ATT	18		
2AJN	14	2APH	24				
2AJP	16	2APL	4	2AUA	14		
2AJS	18	2APS	17	2AUD	19		
2AJU	21	2APT	18	2AUG	26		
2AJW	21	2APU	10	2AUH	16		
2AJY	6	2APW	6	2AUJ	10		
		2APY	18	2AUK	4		
2AKA	6			2AUL	13		
2AKB	5	2ARC	28	2AUN	13		
2AKC	15	2ARD	23				
2AKD	10	2ARE	24				
2AKM	13	2ARF	24				
2AKN	14	2ARG	12				
2AKW	10	2ARH	20				
2AKY	20	2ARK	8				
		2ARL	26				
2ALD	13	2ARM	22				
2ALF	16	2ARR	10				
2ALG	18	2ART	11				
2ALH	6	2ARU	14				
2ALJ	20	2ARW	4				
2ALM	13						
2ALS	11	2ASA	21				
2ALT	15	2ASC	11				
2ALU	9	2ASF	6				
2ALY	23	2ASG	12				
		2ASH	2				
2AMA	16	2ASJ	4				
2AMB	20	2ASK	9				
2AMC	20	2ASM	7				
2AMD	28	2ASN	10				
2AME	24	2ASR	5				
2AML	15	2AST	2				
2AMM	10	2ASU	3				

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2BY	2			3/	L
2EG	2	/2	NL		
2HN	2			3/	L
2KW	2	/2	L		
2ABU	2		NL	/3	L
2ACL	2		NL	3/	L
2AGT	2	2/	L		NL
2ASH	2	/2	L		NL
2AST	2	3/	NL		NL
2AE	3	/6	NL		
2GH	3	5/	L		
2LS	3	/5	NL		
2ACU	3		NL	/5	L
2AHU	3	6/	L		NL
2ASU	3	/85	NL		NL
2ATJ	3	85/	NL		NL
2BG	4			3/3	L
2FW	4	/3	L	/2	L
2JK	4	3/3	NL		
2SP	4	/3	NL	3/	NL
2WT	4	3/	L	/3	L
2AAR	4	3/	NL	/3	L
2ABF	4		NL	3/3	L
2ACW	4		NL	2/3	L
2AFT	4	2/3	NL		
2AGN	4	2/2	NL		
2ANU	4			2/46	NL
2APC	4	12/	NL		
2APL	4	12/	NL		
2ARW	4	/2	L	2/	L
2ASJ	4	2/3	L		NL
2AUK	4	2/	NL	/3	L
2GC	5	/3	L	5/	L
2MU	5	5/2	NL		
2UB	5	5/	NL	/3	L
2WF	5	/3	NL	/5	L
2WW	5			5/3	L
2AAT	5	5/2	NL		
2AEB	5	6/3	L		
2AKB	5	2/	L	/5	L
2ASR	5	6/3	L		NL

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2A	6			5/5	L
2F	6	4/4	NL		
2AK	6	4/4	NL		
2AL	6	5/	L	5/	L
2EC	6	3/11	L		
2EE	6	5/5	NL		
2FN	6			8/3	L
2FT	6	2/8	L		
2GP	6	5/5	L		
2LG	6	6/6	NL		
2RJ	6	5/5	NL		
2SN	6	6/6	NL		
2SU	6	/5	NL	5/	NL
2UH	6	6/	L	/6	L
2US	6	3/2	NL	2/	L
2AAY	6	/3	NL	3/3	NL
2ABH	6			11/3	NL
2ABJ	6			8/3	NL
2ABK	6			5/5	NL
2ACH	6		NL	85/85	L
2ACK	6		NL	6/6	L
2ACP	6		NL	5/5	L
2ADC	6	3/3	NL	/3	L
2AGJ	6	7/2	L		NL
2AGY	6	3/3	NL	/3	L
2AKA	6	3/2	L	2/	L
2ALH	6		NL	85/85	L
2APW	6	11/3	L		NL
2ASF	6	85/85	NL		NL
2EF	7	6/7	NL		
2PB	7	11/5	L		
2YA	7	2/2	L	5/	L
2ABG	7			5/11	NL
2AJA	7	5/8	L		NL
2ASM	7	7/5	L		NL
2BF	8	3/3	L	3/3	L
2CH	8	16/5	L		
2CU	8	3/3	NL	3/3	L
2DP	8	6/17	L		
2FL	8	5/13	L		
2FM	8	3/2	L	2/3	L
2GL	8	5/2	L	5/	L
2HK	8	/3	L	3/11	L
2HW	8	11/11	L		
2JJ	8	5/44	NL		

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2MB	8			11/11	NL
2TL	8			8/8	L
2UP	8	44/5	L		
2UU	8	3/3	NL	3/3	NL
2ABE	8		NL	5/16	L
2ACD	8		NL	11/11	L
2ACE	8	8/8	NL		
2ACF	8		NL	8/8	L
2ADD	8	6/	L	2/6	L
2AEC	8	2/3	NL	2/3	NL
2AFN	8	/2	NL	5/5	L
2AGM	8	13/5	NL		
2ARK	8	5/5	NL	3/	L
2ATA	8	8/8	NL		NL
2ARB	8		NL	5/15	NL
2CL	9			5/22	L
2DM	9	5/	L	5/5	L
2HY	9	11/16	L		
2NM	9	5/3	NL	3/3	L
2SG	9			58/11	L
2ABL	9			11/16	NL
2ACY	9		NL	11/16	L
2AFA	9	5/	L	5/5	L
2ALU	9	30/	NL	3/3	L
2ANF	9	5/22	L		NL
2ANS	9	11/3	NL	/5	NL
2ASK	9	13/11	L		NL
2ATG	9	11/5	L	3/	NL
2ATM	9	7/5	L	/3	L
2J	10	3/3	NL	5/5	L
2U	10	4/4	NL	3/3	L
2AS	10	6/6	L	2/2	L
2BA	10	13/16	NL		
2BC	10	11/3	L	3/3	L
2BN	10	3/3	L	5/5	L
2DN	10	16/16	L		
2ED	10	/3	L	10/10	L
2GG	10	8/2	NL	2/3	NL
2HC	10	2/3	L	5/5	L
2JE	10	4/4	NL	3/2	L
2KC	10	7/2	L	3/3	L
2MN	10	2/2	L	3/11	L
2PY	10	13/13	L		
2RC	10	6/6	L	3/3	L
2SS	10	5/5	NL	3/2	NL
2WB	10	16/16	L		
2WU	10	5/5	NL	3/3	L

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2ACC	10		NL	11/13	L
2ACJ	10	46/95	L		
2ACM	10		NL	32/32	L
2ADG	10		NL	58/58	L
2AEF	10	4/4	NL	39/39	NL
2AGR	10	17/17	L		NL
2AHD	10	16/16	L		NL
2AKD	10	5/5	NL	3/3	L
2AKW	10	2/5	NL	5/2	NL
2AMM	10	2/	L	16/5	L
2ANG	10	5/3	NL	3/5	NL
2ANM	10	46/3	NL	3/3	NL
2APU	10	5/2	NL	2/5	NL
2ARR	10	16/13	L		NL
2ASN	10	11/33	L		NL
2ASW	10	13/13	NL		NL
2ASY	10		NL	16/16	NL
2ATH	10	13/13	NL		NL
2AUJ	10	3/	L	11/11	NL
2GM	11	5/5	L	5/2	L
2KD	11	21/16	L		
2SL	11	6/6	NL	2/59	L
2YC	11	/2	NL	8/16	L
2AAE	11	5/8	NL	3/2	NL
2AAJ	11	51/56	NL	2/3	NL
2AAP	11	6/6	NL	6/2	L
2ABT	11		NL	16/22	L
2ACT	11		NL	16/34	L
2AJM	11	3/11	L	3/5	L
2ALS	11	11/13	L	3/	L
2ART	11	22/103	L		NL
2ASC	11	15/22	L		NL
2B	12	4/4	NL	3/8	L
2C	12	5/5	L	5/5	L
2G	12	4/4	NL	4/4	NL
2M	12	10/3	L	3/10	L
2N	12	4/4	NL	3/10	L
2AA	12	8/2	L	2/8	L
2AB	12	4/4	NL	5/5	L
2AC	12	3/3	L	10/10	L
2AD	12	4/4	NL	10/3	L
2AJ	12	5/5	NL	3/10	L
2BH	12			22/22	L
2BM	12	4/4	L	3/11	L
2CJ	12	8/3	L	3/8	L

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2CN	12	5/	L	5/22	L
2CP	12	4/4	L	3/10	L
2DF	12	4/4	NL	4/4	NL
2GE	12			22/22	L
2GN	12	11/3	L	3/11	L
2GR	12	5/5	L	5/5	L
2GY	12	4/4	NL	4/4	NL
2JP	12	5/5	NL	5/5	NL
2LB	12	6/6	NL	6/6	NL
2LH	12	6/6	NL	5/5	L
2LK	12	4/4	NL	2/8	NL
2LN	12			16/34	L
2LP	12			33/33	L
2NK	12	5/	L	5/22	L
2PT	12	16/13	NL	/2	NL
2RB	12	4/4	NL	11/3	L
2RK	12	5/5	L	3/11	L
2UN	12	22/21	L		
2UY	12	18/53	L		
2YH	12	2/2	L	5/13	L
2YS	12	5/5	NL	6/6	L
2AAK	12	5/5	L	6/6	L
2ABC	12	5/	NL	5/22	NL
2ABD	12	3/3	L	11/11	L
2ABP	12	4/4	NL	6/6	L
2ACN	12		NL	22/22	L
2ADF	12	11/3	NL	5/5	L
2ADK	12	2/3	L	5/16	L
2AEP	12	3/11	L	3/11	L
2AES	12	49/22	L		
2AFU	12	6/6	L	3/11	L
2AFW	12	4/4	NL	11/3	L
2AFY	12	4/4	L	6/6	L
2AGL	12	7/3	L	3/11	L
2AJH	12	5/5	NL	11/3	L
2ANE	12	5/	NL	22/5	L
2APA	12	46/3	NL	6/5	L
2APD	12	11/11	L	11/11	L
2ARG	12	5/5	NL	5/5	NL
2ASG	12	3/2	L	13/5	NL
2ATR	12	11/3	L	3/11	L

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2L	13	4/4	NL	3/15	L
2P	13	11/3	L	3/15	L
2JN	13	5/5	L	8/5	L
2PF	13	5/	L	16/16	L
2PW	13	4/4	NL	5/10	L
2TF	13	16/8	L	3/3	L
2WD	13			33/34	L
2WE	13	52/53	L		
2WG	13	5/11	NL	4/4	NL
2AEM	13			33/34	NL
2AEE	13	16/5	L	3/67	L
2AHC	13		NL	22/35	L
2AJB	13	5/16	L	5/3	L
2AKM	13	11/11	L	3/5	L
2ALD	13	3/	L	16/22	L
2ALM	13	4/4	NL	2/15	L
2AUL	13	6/	L	13/13	L
2AUN	13	22/103	L	/3	L
2AR	14	5/5	L	5/16	L
2BB	14	4/4	NL	8/8	L
2BR	14	10/3	L	8/8	L
2BS	14	4/4	NL	10/10	L
2BU	14	18/3	L	3/11	L
2CA	14	8/5	L	5/8	L
2CB	14	4/4	NL	5/30	L
2CC	14	13/11	L	2/5	L
2CT	14	16/5	NL	3/8	L
2DC	14	4/4	NL	6/14	L
2DD	14	4/4	NL	9/9	L
2DG	14	13/13	L	2/2	L
2DL	14	13/13	L	2/2	L
2EK	14	45/45	L	13/5	
2EM	14	25/10	L	3/3	L
2ET	14	4/4	NL	5/16	L
2FS	14	/38	L	22/22	
2GA	14	22/22	L	38/	
2HR	14	3/3	L	8/18	L
2LM	14	41/4	NL	6/6	L
2LR	14	3/3	L	16/16	L
2NE	14	5/5	L	11/11	L
2NP	14	4/4	NL	6/16	L
2SW	14	11/3	L	8/11	L
2TD	14	4/4	NL	11/11	L
2UL	14	7/11	NL	11/7	NL
2WK	14	11/5	NL	11/5	NL
2YJ	14	11/11	L	3/8	L

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2YM	14	2/2	L	9/20	L
2AAW	14	34/34	L		
2ADE	14	3/3	NL	34/16	L
2AER	14	2/2	NL	16/13	L
2AFD	14	11/3	NL	11/46	L
2AFF	14	11/11	NL	11/16	NL
2AJN	14	7/5	NL	5/7	NL
2AKN	14	35/35	L		NL
2ANY	14	3/3	NL	81/81	L
2ARU	14	2/11	L	16/5	L
2AUA	14	5/8	NL	8/5	NL
2D	15	4/4	NL	8/16	L
2AT	15	11/3	L	8/13	L
2GJ	15	5/5	L	8/16	L
2GW	15	45/45	L	5/22	
2HG	15	22/22	L	/5	L
2KP	15	22/5	L	5/5	L
2LE	15	6/6	NL	2/7	L
2NL	15	33/16	L	3/3	L
2TW	15	3/5	NL	16/16	L
2AAG	15	8/3	L	81/11	L
2AHS	15	5/3	L	16/16	L
2AHY	15	5/8	L	11/11	L
2AKC	15	5/5	L	8/16	L
2ALT	15	5/11	L	16/5	L
2AML	15	30/	NL	16/16	L
2AMW	15	3/5	L	13/13	L
2ATC	15	11/33	L	5/3	L
2AP	16	16/5	L	5/16	L
2AW	16	16/5	NL	5/16	NL
2AY	16	16/5	L	8/8	L
2BT	16	8/2	L	9/23	L
2CK	16	4/4	NL	9/20	L
2DK	16	4/4	NL	8/25	L
2EW	16	5/2	L	16/21	L
2FY	16	4/4	NL	7/33	L
2GU	16	10/3	L	15/15	L
2HT	16	4/4	NL	11/33	L
2JH	16	16/5	L	5/16	L
2KA	16	3/11	L	21/11	L
2LL	16	10/10	L	10/10	L
2LY	16	8/8	L	8/8	L
2NC	16	3/3	L	18/21	L
2NS	16	22/22	L	3/3	L
2SM	16	4/4	NL	21/9	L

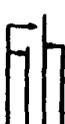
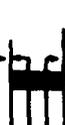
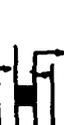
CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2UF	16	5/5	NL	9/78	L
2WJ	16	3/11	L	81/13	L
2YT	16	13/13	L	5/5	L
2AAB	16	17/17	L	6/6	L
2ADM	16	4/4	NL	14/14	L
2ADN	16	4/4	NL	56/56	L
2ADS	16	4/4	NL	46/50	L
2AEU	16	/5	L	22/35	L
2AHP	16	11/11	L	8/8	L
2AHW	16	3/11	L	33/11	L
2AJP	16	11/11	NL	5/13	NL
2ALF	16	43/5	NL	5/16	NL
2AMA	16	4/105	NL	105/4	NL
2ANT	16	6/81	L	81/6	L
2ATD	16	5/15	NL	15/5	NL
2ATF	16	7/7	L	7/7	L
2AUH	16	5/15	L	11/11	NL
2CE	17	16/11	L	11/11	L
2GK	17	4/4	NL	16/25	L
2UE	17	8/11	L	11/58	L
2UW	17	3/11	L	16/33	L
2AAF	17	8/3	L	81/33	L
2AAN	17	3/11	L	16/79	L
2ADA	17	5/16	NL	11/16	L
2AEW	17	4/4	NL	97/99	L
2AFE	17	16/16	NL	11/5	NL
2AGE	17	16/16	NL	11/5	NL
2AJJ	17	3/5	L	34/30	L
2APS	17	21/21	L	5/3	L
2H	18	22/22	E	45/45	
2AF	18	13/8	L	8/13	L
2AN	18	8/2	L	22/18	L
2BD	18	22/22	L	5/5	L
2FA	18	5/8	L	21/16	L
2FF	18	4/4	NL	21/21	L
2HA	18	45/45	L	22/22	
2HL	18	33/21	L	3/51	L
2KM	18	22/5	L	22/5	L
2SJ	18	5/5	NL	22/22	NL
2TH	18	16/16	L	11/11	L
2TT	18	22/22	L	6/6	L
2UG	18	77/77		45/45	L
2YB	18	11/33	L	11/8	L
2YE	18	16/5	L	16/13	L
2YF	18	13/13	NL	8/8	L
2YW	18	4/4	NL	33/33	L
2WP	18	82/82	L	16/13	

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2ABY	18	22/5	NL	5/22	NL
2AEK	18	4/4	NL	97/55	L
2AEY	18	4/4	NL	56/98	L
2AFB	18	13/46	NL	5/22	L
2AGH	18	4/4	NL	43/57	L
2AHG	18	11/11	L	33/11	L
2AJS	18	11/3	L	33/33	L
2ALG	18	3/11	L	21/33	L
2APT	18	3/11	L	16/34	L
2APY	18	22/118	L	2/8	L
2ATT	18	16/16		62/45	L
2EN	19	3/11	L	33/34	L
2PG	19	5/16	NL	16/21	L
2UC	19	4/4	NL	34/21	L
2WH	19	11/3	L	27/49	L
2WS	19	14/33		42/37	L
2AAH	19	20/7	L	90/89	
2ADR	19	4/4	NL	34/31	L
2ADT	19	11/3	L	25/27	L
2AJF	19	5/5	NL	108/110	L
2AUD	19	4/4	NL	99/55	L
2R	20	23/9	L	9/23	L
2BJ	20	16/16	L	16/16	L
2BL	20	13/16	L	16/13	L
2DJ	20	17/17	L	14/17	L
2FC	20	23/9	L	8/19	L
2HE	20	16/16	NL	16/16	NL
2HP	20	4/4	NL	98/98	L
2JM	20	11/33	L	33/11	L
2SR	20	26/17	L	17/6	L
2TS	20	4/4	NL	52/35	L
2UR	20	33/11	L	13/13	L
2WR	20	16/5	L	16/34	L
2YK	20	24/24	L	8/8	L
2YG	20	32/32	L	32/32	L
2AAA	20	8/8	L	20/20	L
2ABB	20	11/3	L	93/94	L
2ADH	20	16/5	NL	21/21	L
2ADW	20	21/11	L	51/33	L
2AEG	20	53/53		82/82	L
2AGD	20	16/11	L	46/34	L
2AHH	20	33/33	L	7/11	L
2AHN	20	75/11	NL	11/75	NL
2AJD	20	4/4	NL	52/52	L
2AJE	20	6/6	L	35/35	L
2AJG	20	5/5	NL	52/52	L

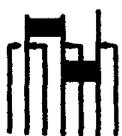
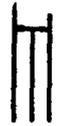
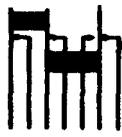
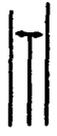
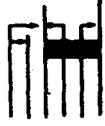
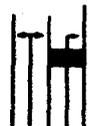
CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2AKY	20	5/22	L	22/16	L
2ALJ	20	4/4	NL	114/55	L
2AMB	20	16/13	NL	13/16	NL
2AMC	20	16/16	NL	16/16	NL
2ARH	20	5/5	L	34/34	L
2GD	21	22/22		42/45	L
2NG	21	22/22		42/45	L
2NR	21	13/22	L	13/13	L
2TK	21	5/16	NL	34/21	L
2ADJ	21	22/22	L	5/22	L
2AFG	21	16/9	L	22/22	L
2AJU	21	11/11	L	111/33	L
2AJW	21	34/16	NL	16/11	NL
2ASA	21	13/7	L	52/13	L
2ATP	21	116/28	L	11/5	L
2AU	22	28/9	L	9/28	L
2FB	22	11/16	L	33/34	L
2HJ	22	22/16	L	22/16	L
2SY	22	34/34		72/72	NL
2TB	22	62/62	L	16/34	
2WY	22	33/13	L	13/33	L
2ACG	22	16/16	L	21/21	L
2AEM	22	22/16	NL	16/22	NL
2AGB	22	11/11	L	94/93	L
2AHM	22	11/11	L	93/93	L
2ARM	22	35/8	L	8/35	L
2TA	23	35/8	NL	22/22	L
2WL	23	16/16	NL	33/34	L
2ALY	23	35/22	L	20/9	L
2ARD	23	79/79	L	87/99	NL
2ATK	23	13/13	L	22/52	L
2E	24	26/14	L	14/26	L
2BP	24	27/14	L	14/27	L
2DH	24	22/22	L	22/22	L
2EY	24	22/22	NL	16/34	L
2FH	24	35/16	NL	16/35	L
2HD	24	13/57	L	57/13	L
2JB	24	33/33	L	33/33	L
2SH	24	22/22		42/42	L
2WN	24	22/22	L	16/34	L
2YL	24	16/64	L	22/22	L
2ABR	24	21/21	L	21/21	L
2ABW	24	22/28	L	16/22	L
2AFM	24	101/101	L	101/101	L

CODE	NO. OF SPGS.	COMB. A/D	L OR NL	COMB. B/C	L OR NL
2AGC	24	75/22	NL	22/75	NL
2AHE	24	22/22	NL	22/22	NL
2AME	24	21/33	L	33/21	L
2ANW	24	32/115	L	115/32	L
2APG	24	22/22	L	22/22	L
2APH	24	21/33	L	33/21	L
2ARE	24	11/11	NL	11/11	NL
2ARF	24	22/22	L	22/22	L
2ADL	25	17/17	L	17/27	L
2AEA	26	22/22	NL	34/34	L
2AFC	26	16/35	L	74/100	L
2ARL	26	22/52	NL	22/52	NL
2AUG	26	13/52	L	74/100	L
2AMD	28	35/35	L	35/35	NL
2ARC	28	52/52	L	52/52	L

SPRING COMBINATIONS

2 	3 	4 	5 	6 	7 
8 	9 	10 	11 	12 	13 
14 	15 	16 	17 	18 	19 
20 	21 	22 	23 	24 	25 
26 	27 	28 	29 	30 	32 
33 	34 	35 	36 	37(Follow) 	38(Follow) 
39 	40 	42(Follow) 	43 	44 	45(Follow) 

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46 	49 	50 	51 	52 	53 
54 	55 	56 	57 	58 	59 
62(Follow) 	63 	64 	67 	72(Follow) 	74 
75 	77 	78 	79 	81 	82(Follow) 
84 	85 	87 	89(Follow) 	90(Follow) 	91(Follow) 
92 	93 	94 	95 	96 	97 
98 	99 	100 	101 	103 	105 

