

SD-30243-01 2 PAGES

CIRCUIT REQUIREMENTS (TST CONN)

DESIG CODE	MECH. REQ.	BSP	CONT. ARM. PRES. TRYL	RESID	CIRCUIT PREPARATION		TEST SET NO.	DIRECT TEST WDG FOR	CURRENT FLOW REQ.	TIME REQ.	REMARKS
					BLOCK INSULATE	CONNECTION					
A	221A	726	B	7-11	(B) NO	TST JK1	M	9/10	7	15.1	14.8
B	222AR	4	12	SL	(B) NO	TST JK1	M	10	NO	13.9	14.4
					(A)	GRD 1/6			NO	8.4	7.3
					(A)	GRD 6			NO	6.9	7.3
					(A)	GRD 4/7			H	300	
					(A)	TST JK1	2	7	NO	750	1500
					(A)	GRD 7			NO	6.9	7.3
B	222AR	500	27	15-4	(A)	GRD 1/6			O	8.9	8.3
					(A)	GRD 6			NO	7.7	8.2
					(A)	TST JK1	5/7		H	450	
					(A)	TST JK1	7		NO	7.7	8.2
					(A)	GRD 7			NO	10.5	10
					(A)	GRD 1/6			NO	8.5	9
					(A)	GRD 6			H	333	
					(A)	TST JK1	5/7		R	750	500
					(A)	TST JK1	7		NO	8.5	9
					(A)	GRD 7			NO	8.5	9

TEST NOTES:

- WHEN TESTING RELAYS, SHORT CIRCUIT SPRINGS "3" AND "4" OF TEST JACK.
- SPRING "9" SHALL MAKE CONTACT WITH SPRING "11" WHEN SWITCH IS REMOVED FROM FRAME.
- TEST HOLD-USE 1200Ω LOOP IN PULSING TEST SET.
- TEST HOLD-USE 1400Ω LOOP IN PULSING TEST SET.
- FOR USE WHEN TIME REQ. ARE NOT APPLIED.

7. FOR USE WHEN TIME REQ. ARE APPLIED.

8. WHEN THE SWITCH IS USED WITH A 2 COND. UPPER BANK, CONDUCTOR WIRES SHALL BE ADJUSTED AS A 2 COND. UPPER BANK. THE TERMINALS OF THE UPPER WIRES SHALL BE OMITTED.

9. ARMATURE NEED NOT TOUCH CORE.

10. TEST CONTACT SEPARATION MIN. 3. CONTACT FOLLOW MIN. 8.

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					BLOCK INSULATE	CONNECTION					
D	222D	10	12	S-4	(A)	GRD 2/5			O	150	115
					(A)	GRD 2/5			NO	500	85
					(A)	TST JK1	2/5		H	100	
					(A)	TST JK1	3/4		R	155	140
					(A)	GRD 4			NO	500	85
					(A)	GRD 1/2/5			O	1500	90
					(A)	GRD 2/5			NO	500	62
					(A)	GRD 3/4			H	100	
					(A)	TST JK1	2/5		R	155	140
					(A)	TST JK1	4		NO	500	62
					(A)	GRD 4			NO	500	85
E	222MM	128	11	S-4	(A)	GRD 6			P/S	0	3.4
					(A)	GRD 6			NO	0	2.7

TEST NOTES:

- THE 222D RELAY IS USED WITH 46Ω MAGNETS, THE 222CK RELAY WITH 57Ω MAGNETS.
- TEST HOLD-USE LEAK A IN PULSING TEST SET.
- FOR USE WHEN TIME REQ. ARE APPLIED.

5. FOR MTCE, ONLY WHEN TIME REQ. ARE NOT APPLIED.

6. CONTACT FOLLOW MIN. 8.

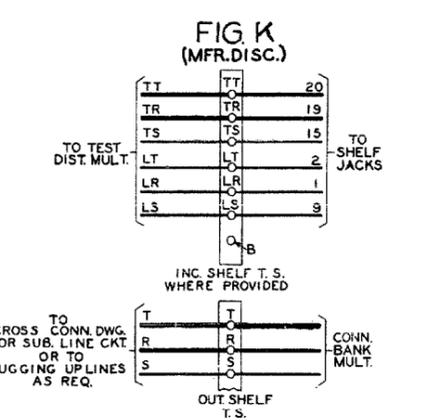
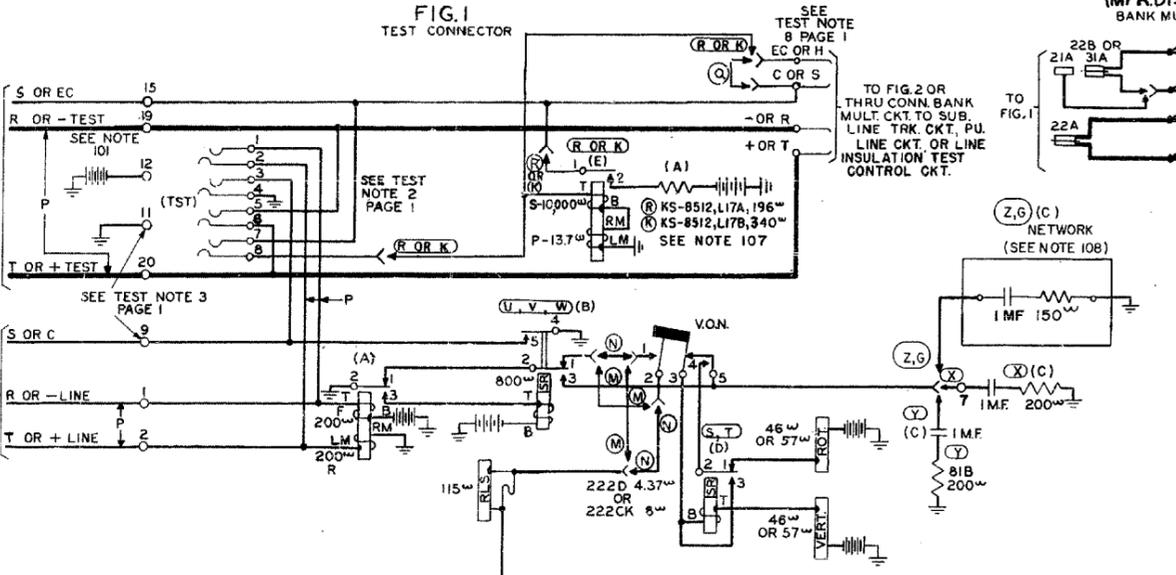
OPTIONS USED

FIGS.	APP. OR WIRING
1	Z
2	Y
	X
	W
	V
	U
	T
	S
	R
	Q
	N
	M
	K
	G

CIRCUIT NOTES: (CONTINUED)

104. RECORD OF FIGURES, WIRING, AND APPARATUS CHANGES

CHANGED ON ISS.	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN.	SEE NOTE	USE IN CIRCUIT
				STD. A&M M.D.
3-B	192K OR 197K SW.	192K	197K	192K
3-B	S OR T	T	105	S T
9-D	X OR Y	X		Y X
11-D	U, V OR W	W	105	U V, W
13-D	22B OR 31A BANK	22B BANK	103	31A 22B
14-D	Z	X OR Y		Z Y
16-D	FIG. 2	FIG. 2		FIG. 2
17D	Q OR R	Q OR NONE	103 106	Q, R
18D	M OR N	N		M N
19AC	K	Q, R	106	K
20D	K, G OR R, K, Q OR R			R
22D	G	Z, Y OR X	108	G Z



CIRCUIT NOTES: (CONT)

107. WHEN THIS CIRCUIT IS LOCATED ON A SHELF EQUIPPED WITH HUNTING CONNECTORS SERVING DIAL PBX LINES AND IS USED FOR LINE INSULATION TESTING IN CONJUNCTION WITH AN LIT CONTROL CIRCUIT IN THE SAME BUILDING PROVIDE R OPTION IN OFFICES CONTAINING PLUNGER TYPE LINE SWITCH EQUIPMENT OR K OPTION IN ALL OTHER CASES. PROVIDE Q OPTION WHEN SWITCH USES A SINGLE CONDUCTOR UPPER BANK.

108. THE DIFFERENCE BETWEEN THE (C) NETWORKS IS AS FOLLOWS:

(Z) 179A

(G) CONSISTING OF 1-542D CAPACITOR B L-KS13490, L2, RES 150Ω

REPLACING ES-30393-01 AND SD-31772-01

SD-30243-01 1D99

STEP BY STEP SYSTEMS  
NO. 1, 350A, 355A OR 35E 97  
TEST CONNECTOR CIRCUIT  
FOR USE IN TESTING SUBSCRIBER LINES  
AND FOR USE IN VERIFICATION SERVICE

(TST CONN) SD-30243-01

BELL TELEPHONE LABORATORIES, INC.

PRINTED IN USA M2

DWG. ISS.	C.D. ISSUE	DWG. ISS.	C.D. ISSUE	DWG. ISS.	C.D. ISSUE
1	1	2-A	APPLA	3-B	APPEB
4-D	APPD	5-A	APPA	6-A	APPEA
7-D	APPD	8-D	APPD	9-D	APPEA
10-D	APPD	11-D	APPD	12-D	APPD
12-D	APPD	10-21-37	W.L.F.	O.A.F.	
13-D	2-D	10-3-39	R.S.M.	G.W.A.	
14-D	2-D	2-25-41	R.S.M.	O.A.F.	
15-D	APPE	3-27-46	W.L.F.		
16-D	2-D	7-10-46	F.L.J.		
17D	3D	4-21-55	A.E.S.	R.L.L.	
18D	5D	5-10-57	O.C.A.	R.M.C.	
			G.W.W.	L.C.B.	
19AC	4AC	8-25-60	S.F.L.	P.R.R.	
20D	5D	1-30-62	J.B.	F.A.B.	
21D	5D	APPD	J.P.D.	F.M.	
22D	5D	APPD	J.B.	R.J.J.	
			P.J.S.	F.L.S.	
			G.K.	L.C.B.	