

28 TYPING UNIT (LP)

PARTS

Bell System and Teletype Code Cross-Reference Charts

Unit Description		Unit Description		Type Box	
Teletype Code	Bell System Code	Teletype Code	Bell System Code	Teletype Code	Bell System Code
LP15RX/AR	28D	LP86RX/AGX	28B	151930 (RA)	28A
LP18RA/AGN	28LA	LP87RX/AGY	28C	155701 (WY)	28A-1
LP19RX/AN	28E	LP88RX/AGZ	28F	161362 (XR)	28A-2
LP28RX/AES	28B-2	LP89RX/AHA	28G	152881 (RB)	28B
LP28RX/AR	28B	LP90RX/AHB	28U	161363 (XS)	28B-1
LP29RX/AEL	28C	LP91RX/AHC	28W	151931 (RC)	28C
LP31WB/AX	28B-1	LP92RX/AHD	28S	161364 (XT)	28C-1
LP32RX/AN	28F	LP93RX/AHE	28AA	151937 (RD)	28D
LP33RX/AEK	28G	LP95RX/AGE	28AG	157018 (WN)	28D-1
LP41RX/AEG	28J	LP96RX/AR	28AJ	161365 (XV)	28D-2
LP47RX/AEG	28J-1	LP97YK/AGE	28AE	155709 (XH)	28E
LP49RX/AED	28H	LP100RA/AHL	28LF	155693 (WP)	28E-1
LP49RX/AFA	28H-1	LP102RX/AGE	28AH	154643 (RV)	28F
LP49RX/AFB	28H-2	LP106RX/AHS	28AB	153518 (WA)	28F-1
LP49RX/AFC	28K	LP106RX/AHR	28AD	164348 (YK)	28G
LP49RX/AFG	28L	LP107RX/AHU	28AC	176651 (YP)	28H
LP49RX/AGU	28Y	LP115AK/AJR	28AN	178724 (YS)	28A-3
LP60RX/AFN	28B	LP118RX/AJM	28AF	199898 (AL)	28-5
LP61RX/AFP	28C	LP119RX/AJN	28AK		
LP62RX/AFQ	28F	LP120RN/AJR	28AL		
LP63RX/AFW	28G	LP121RX/AJQ	28AM		
LP70RX/AGE	28U	LP122AK/AJB	28AP		
LP71RX/AGF	28W	LP126RX/AJY	28AT		
LP80RA/AGP	28LD	LP127RX/AJZ	28AU		
LP81RA/AGP	28LE	LP129RX/AUH	28AR		
LP82RA/AGQ	28LB	LP133RX/AKA	28BE		
LP82RA/AGR	28LC				

Note: When ordering parts from this section,  
prefix each number with the letters TP

Prepared for American Telephone and Telegraph Company by Teletype Corporation.

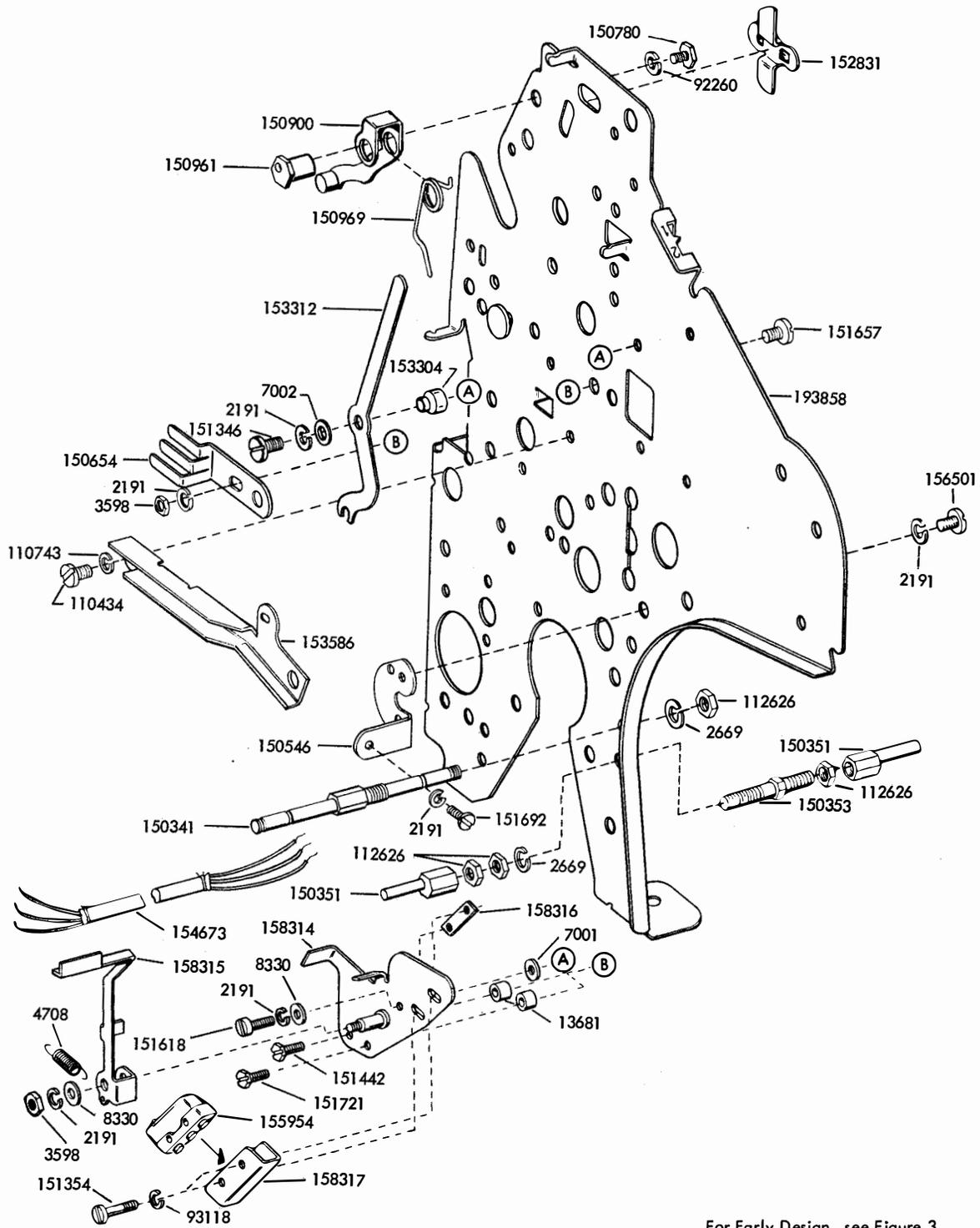
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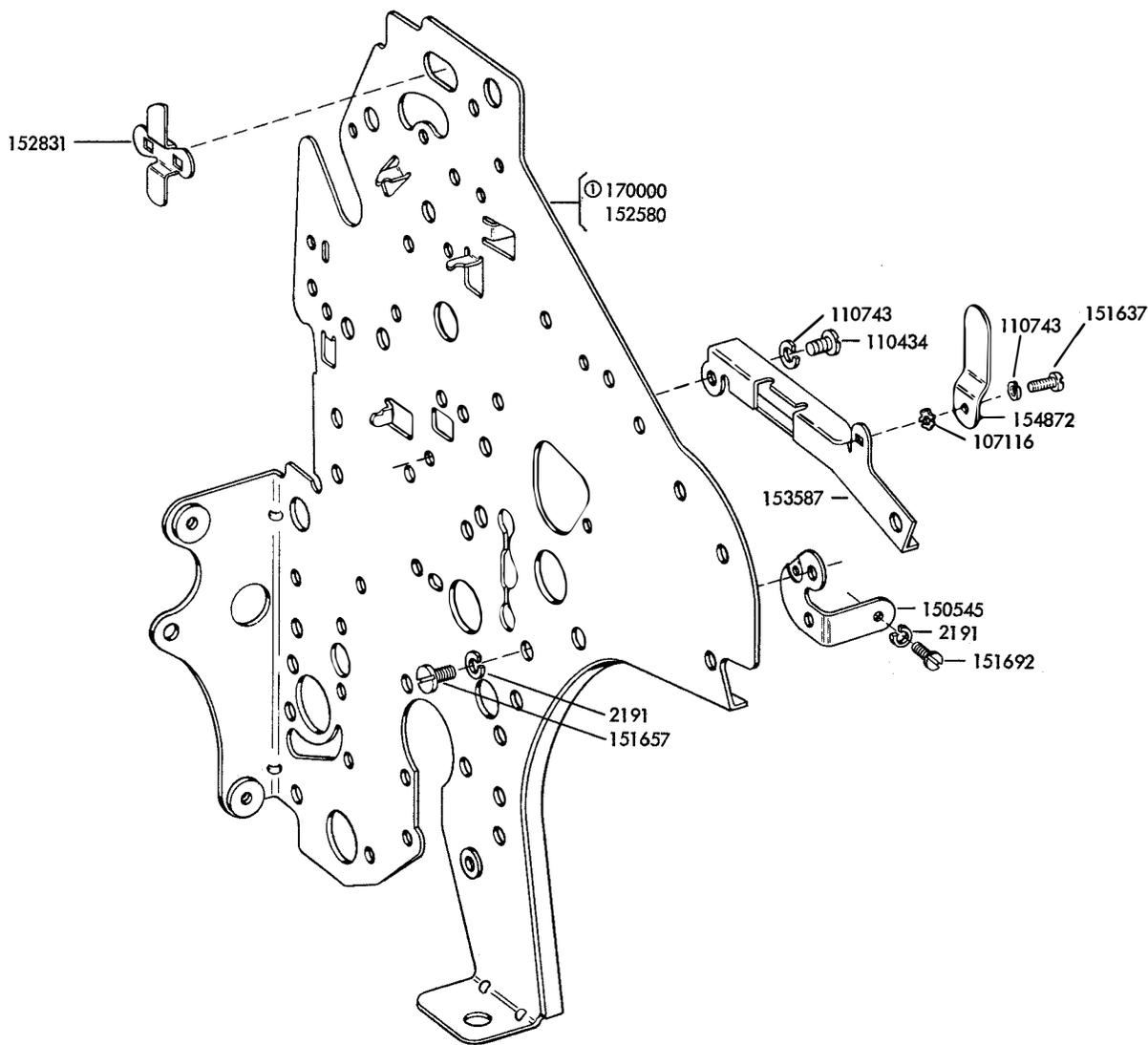
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For Early Design, see Figure 3

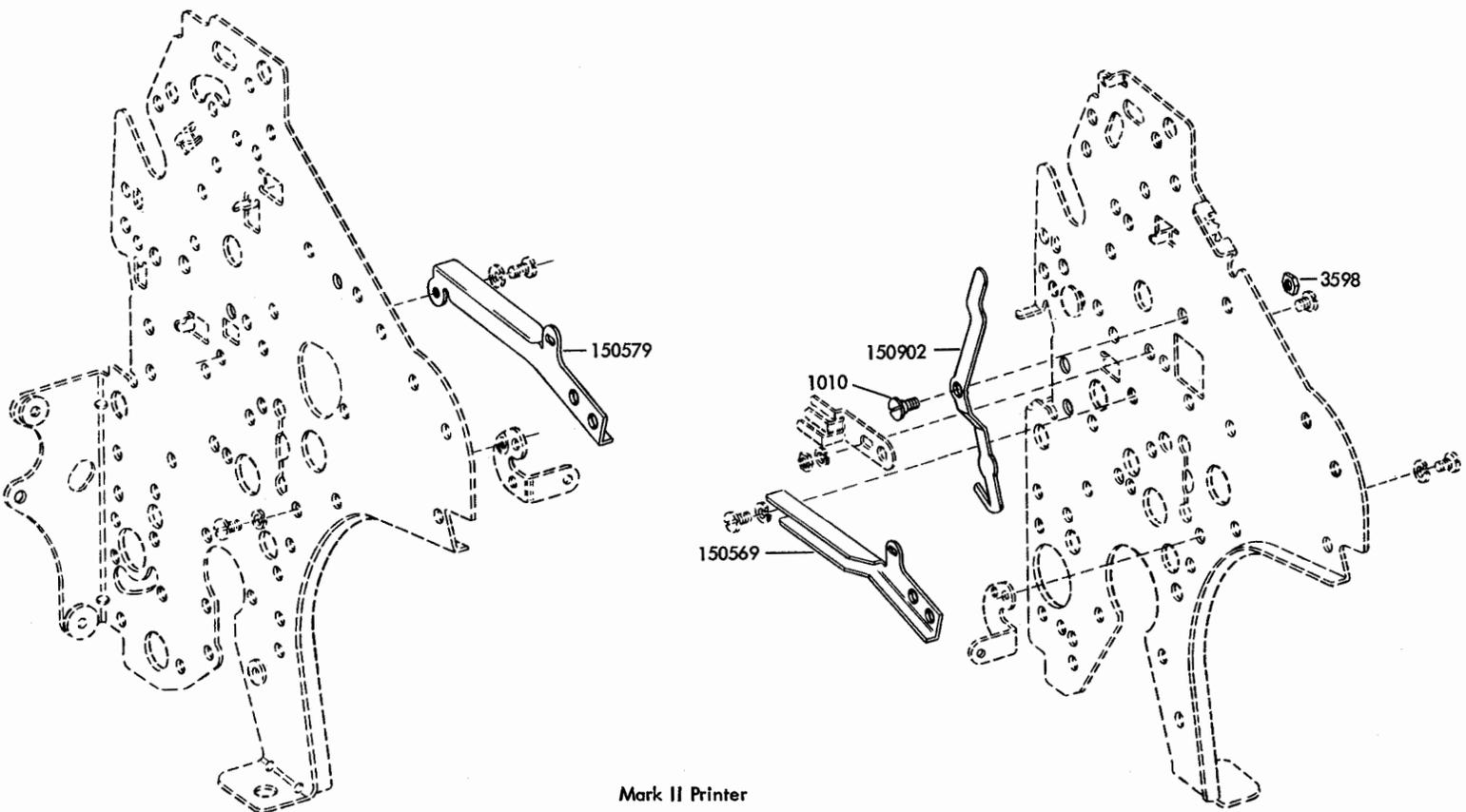
FIGURE 1. LEFT SIDE FRAME MECHANISM



① Peculiar to 8 Level Units

For Early Design, see Figure 3

FIGURE 2. RIGHT SIDE FRAME MECHANISM

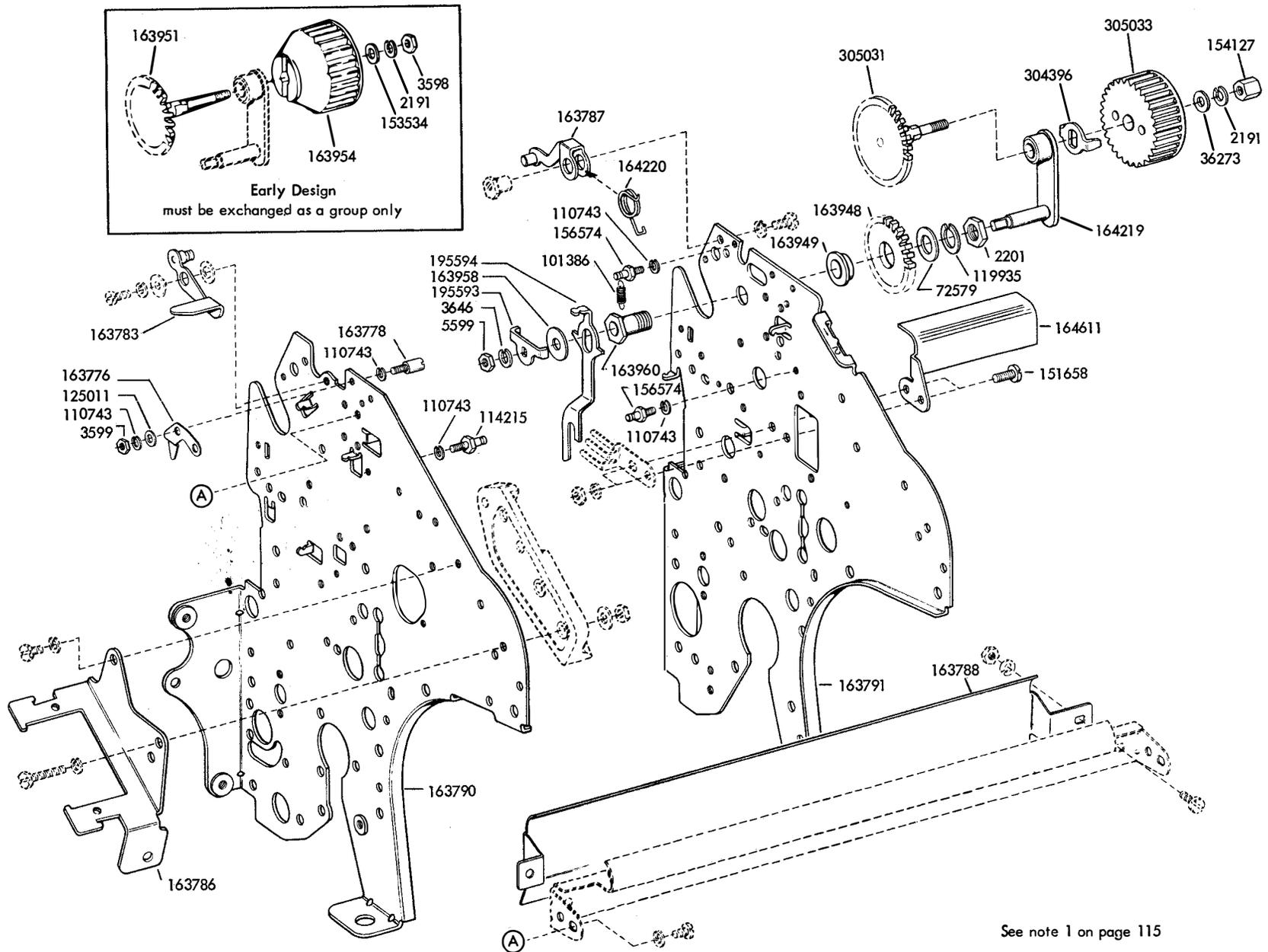


Mark II Printer

Early Design Parts

FIGURE 3. LEFT AND RIGHT SIDE FRAME MECHANISM

FIGURE 4. LEFT AND RIGHT SIDE FRAME MECHANISM



See note 1 on page 115

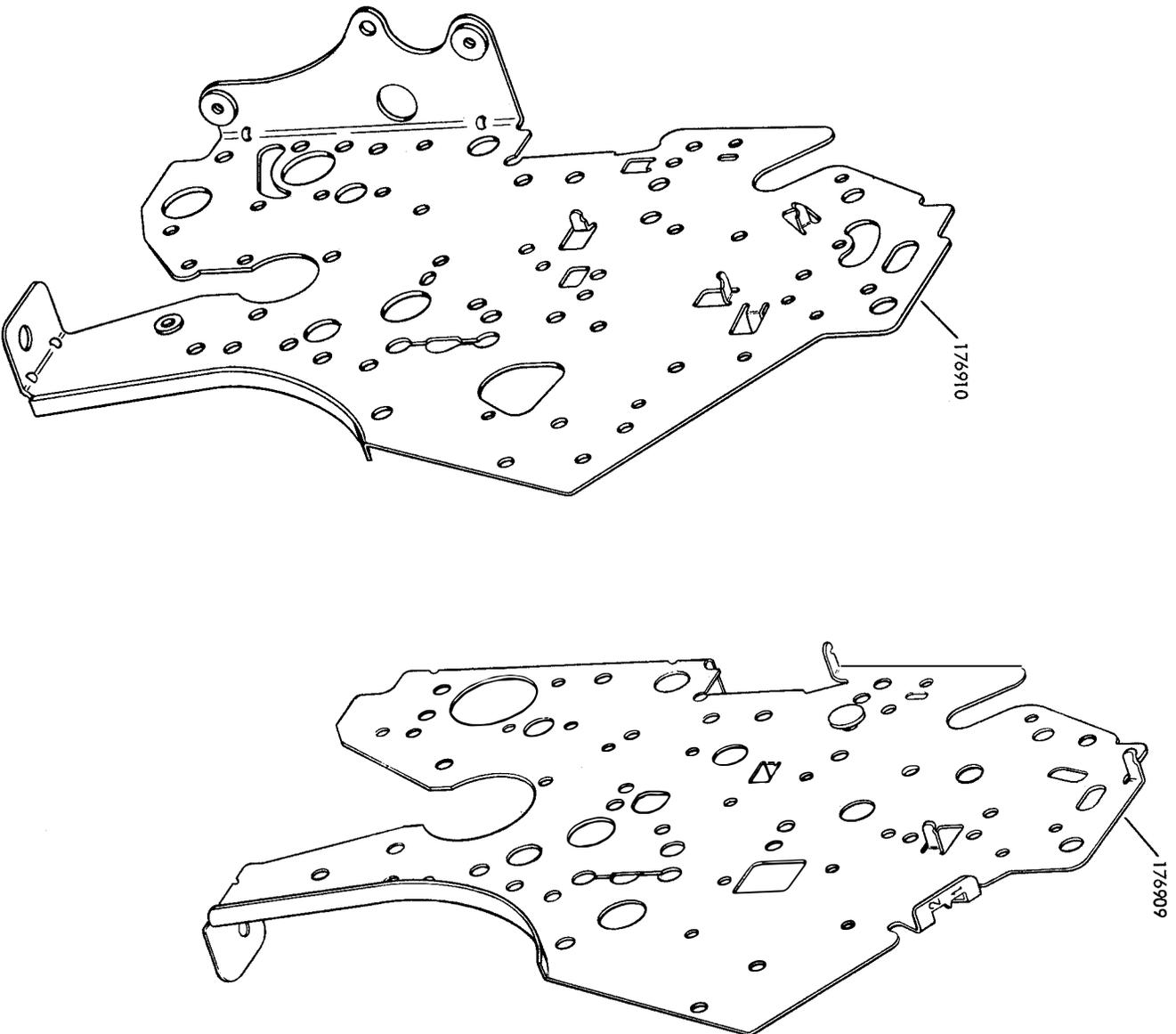
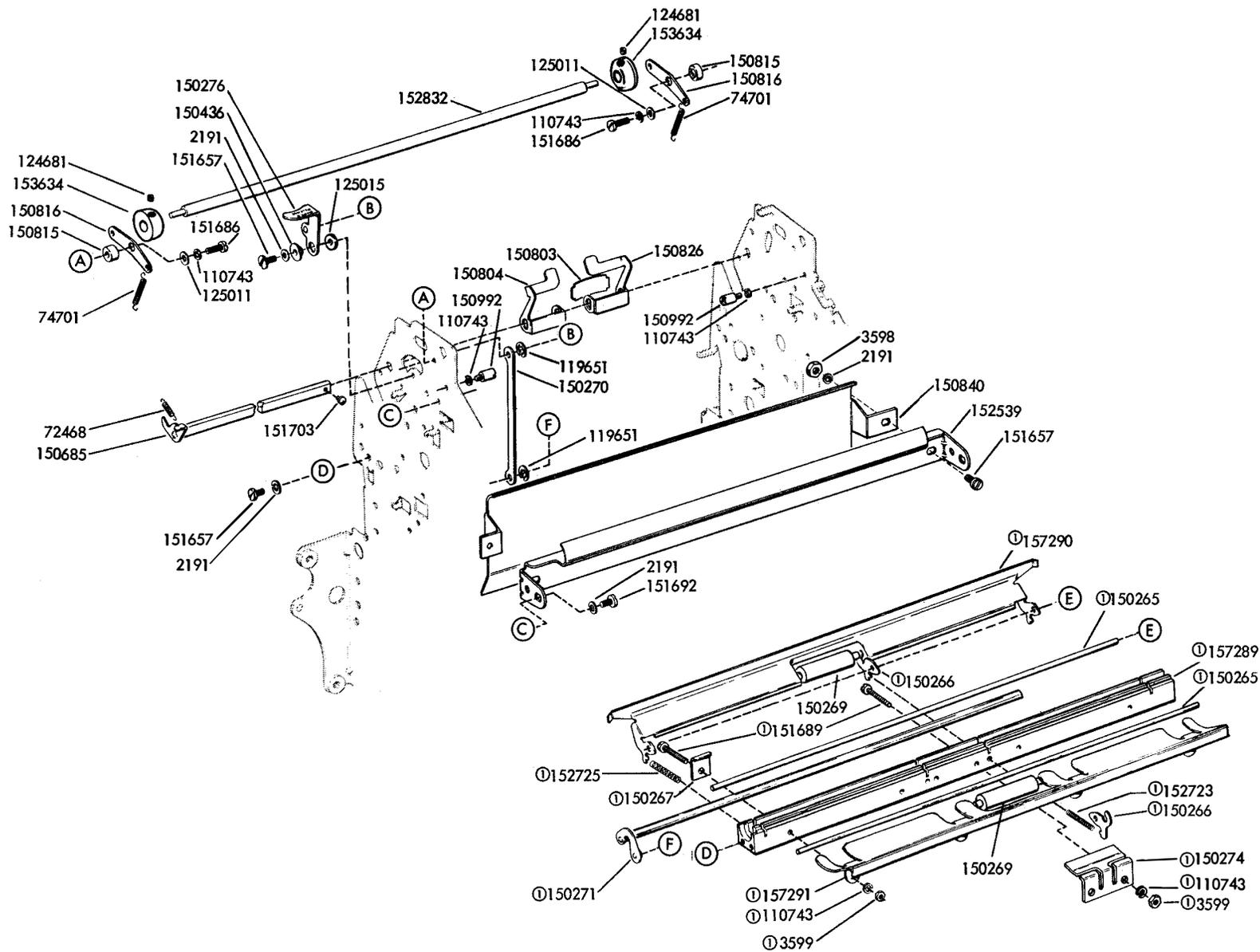


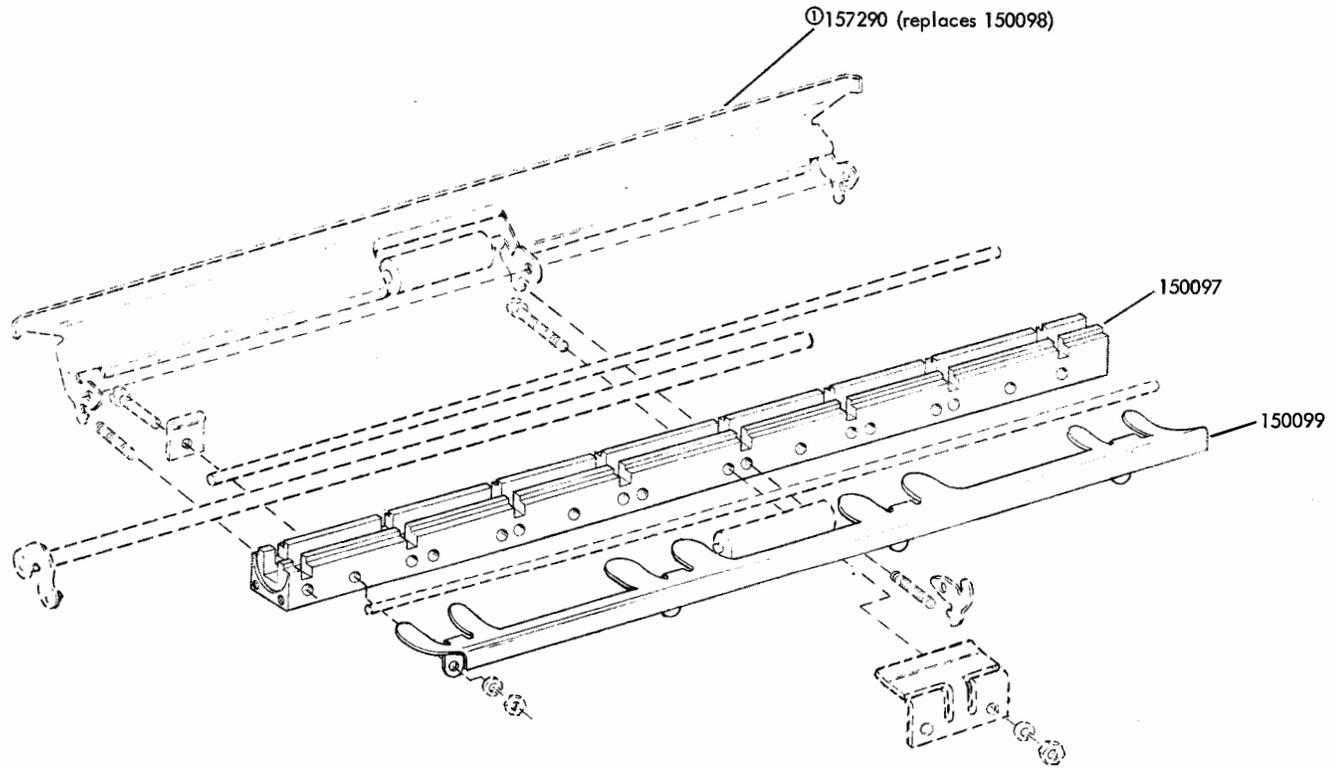
FIGURE 5. LEFT AND RIGHT SIDE FRAMES (WALL MOUNTED)

FIGURE 6. PRESSURE ROLLER MECHANISM



① 150096 Pressure Roller Assembly  
For Early Design, see Figure 7

FIGURE 7. PRESSURE ROLLER MECHANISM

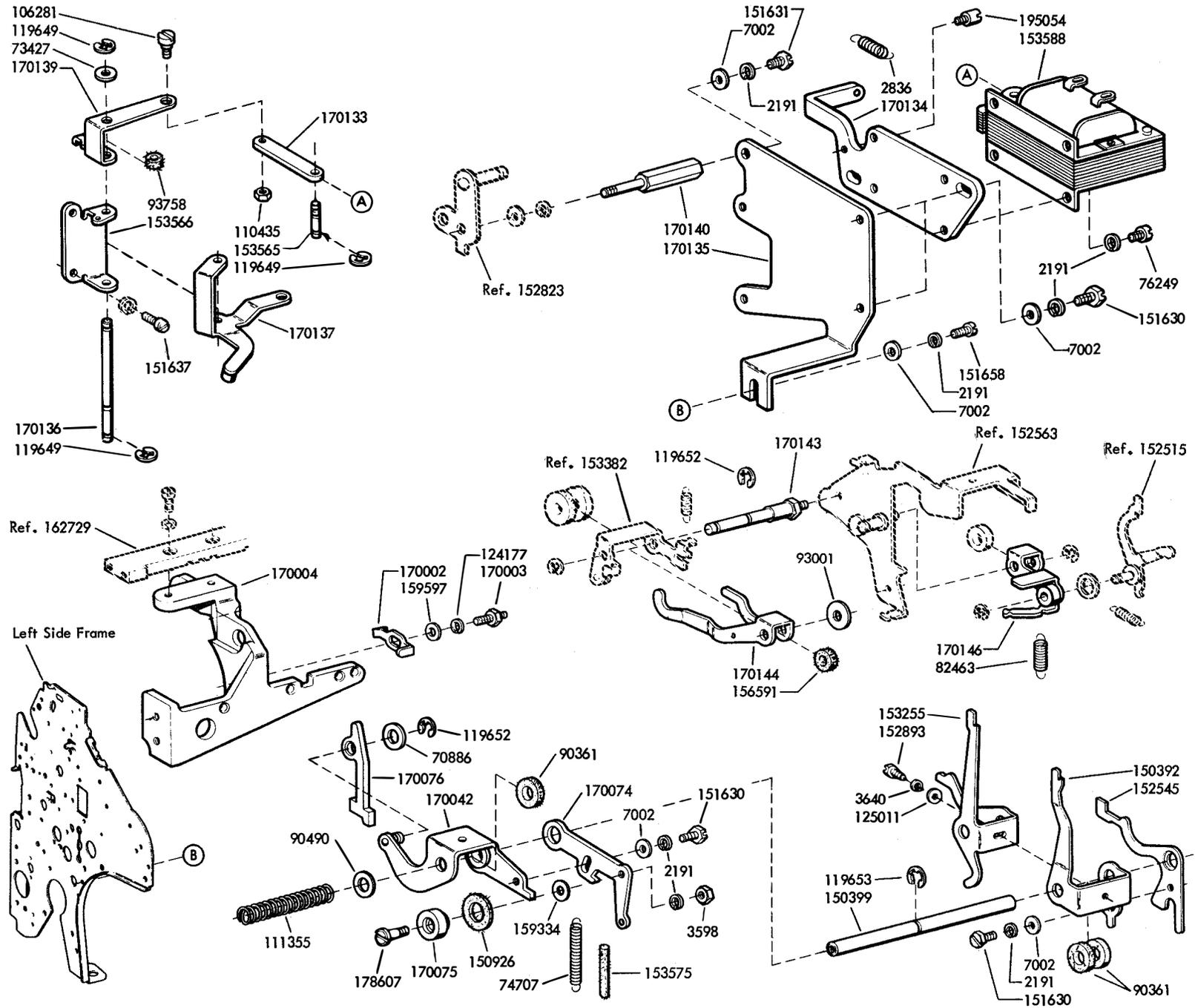


Early Design Parts

①See note 2 on page 115



FIGURE 9. SPACE SUPPRESSION, STUNT SHIFT CONTROL AND CODE BAR SUPPRESSION MECHANISM (8 LEVEL)



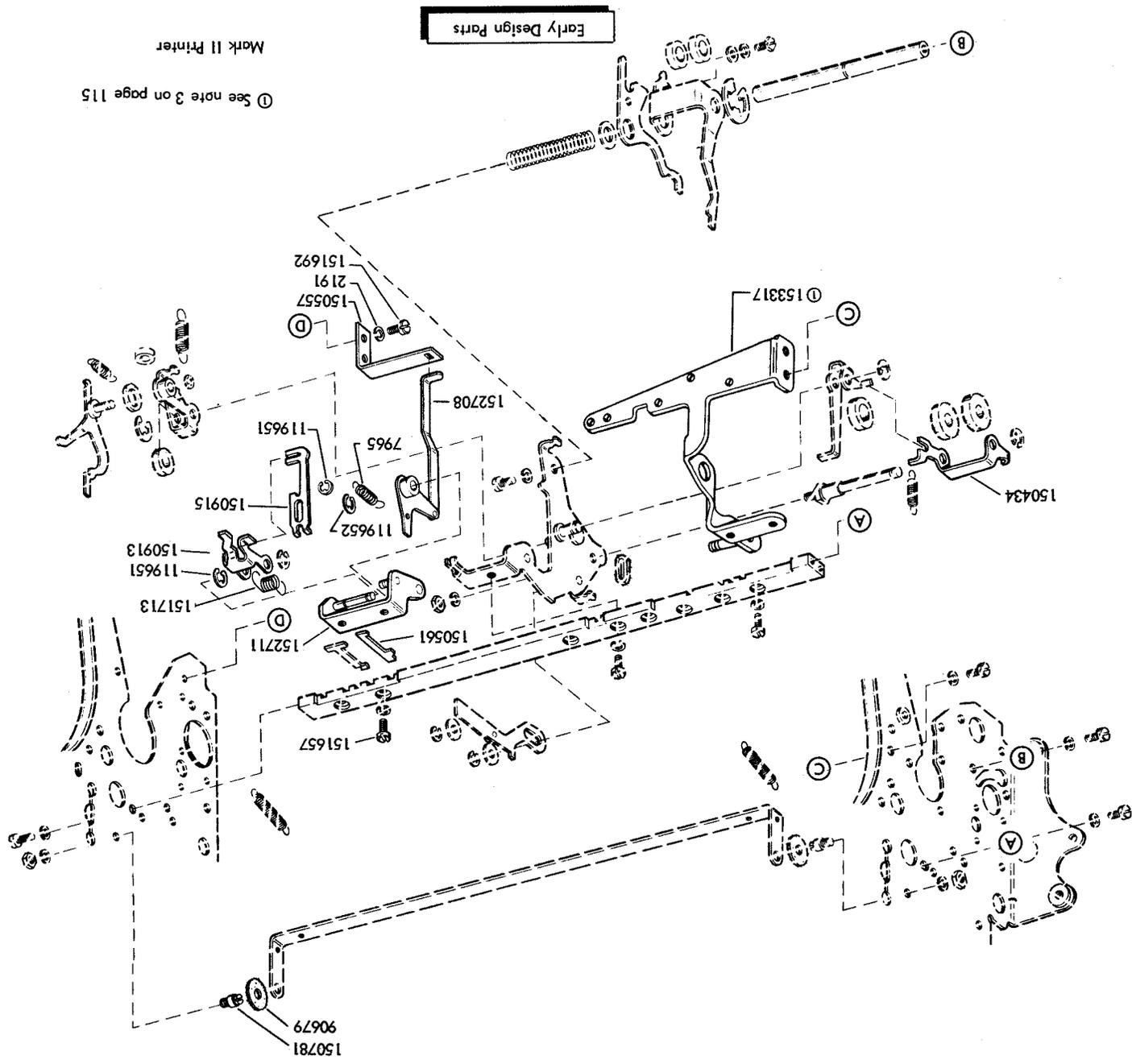
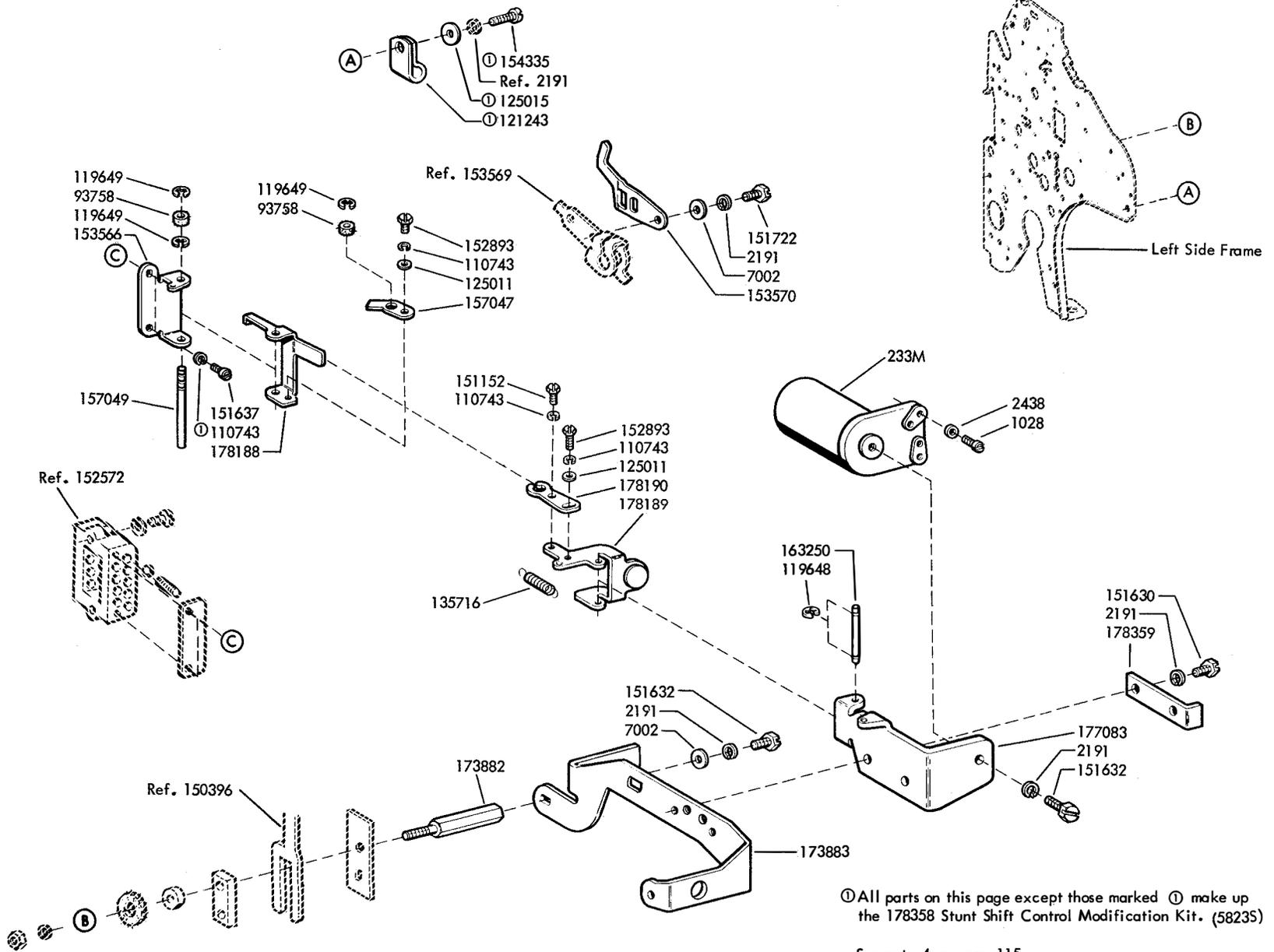


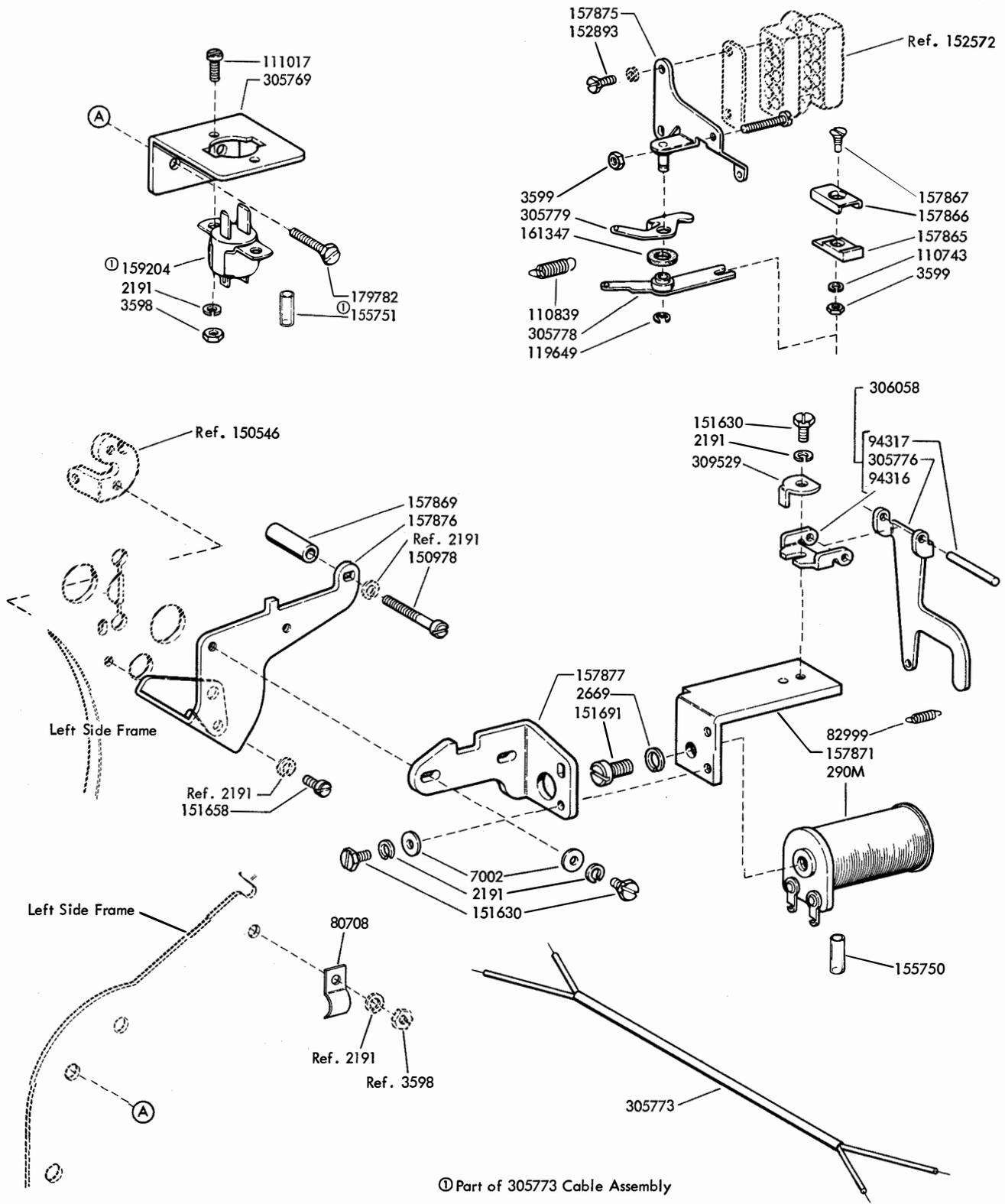
FIGURE 10. SPACE SUPPRESSION MECHANISM

FIGURE 11. PRINT SUPPRESSION MECHANISM



Ⓛ All parts on this page except those marked Ⓛ make up the 178358 Stunt Shift Control Modification Kit. (58235)

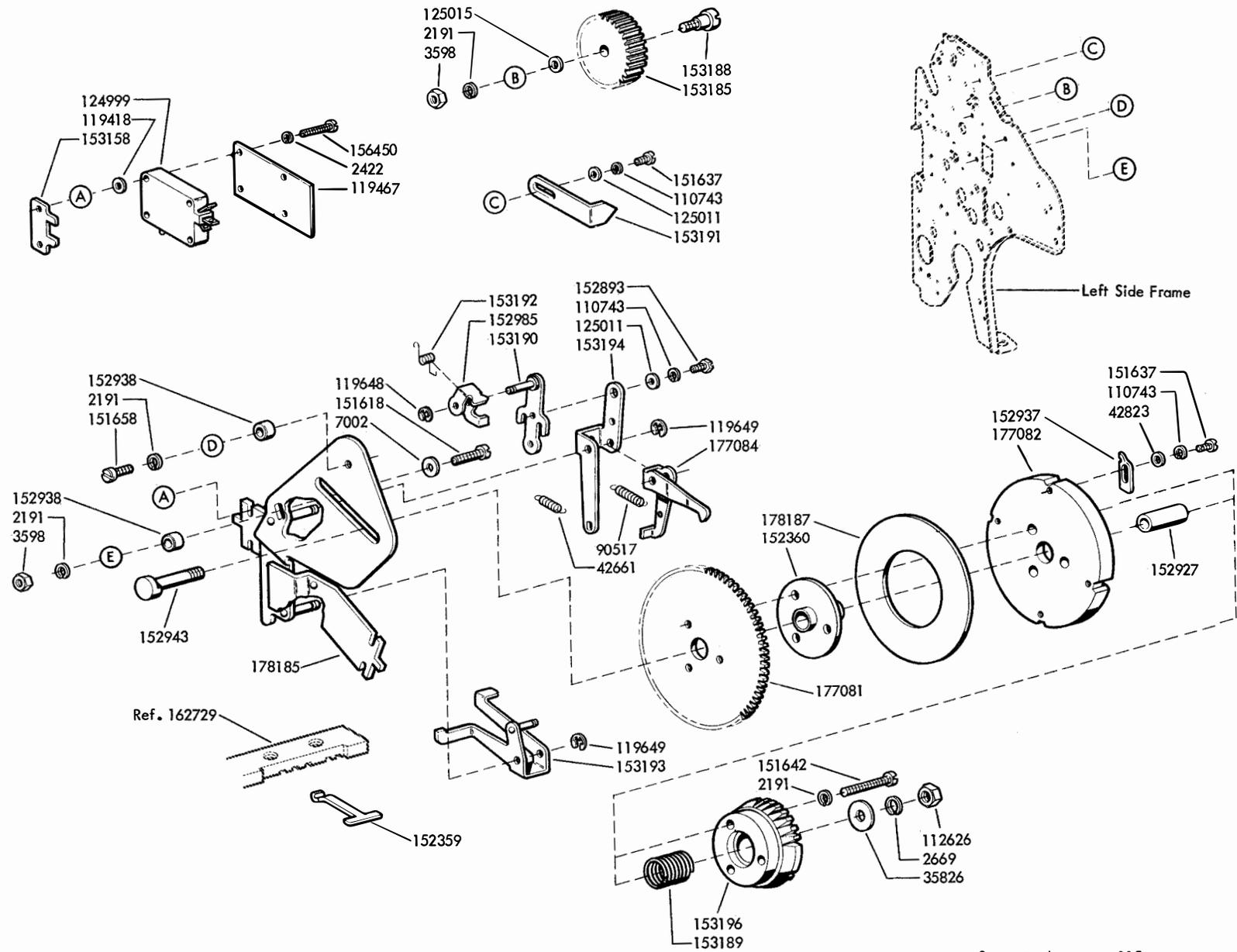
See note 4 on page 115



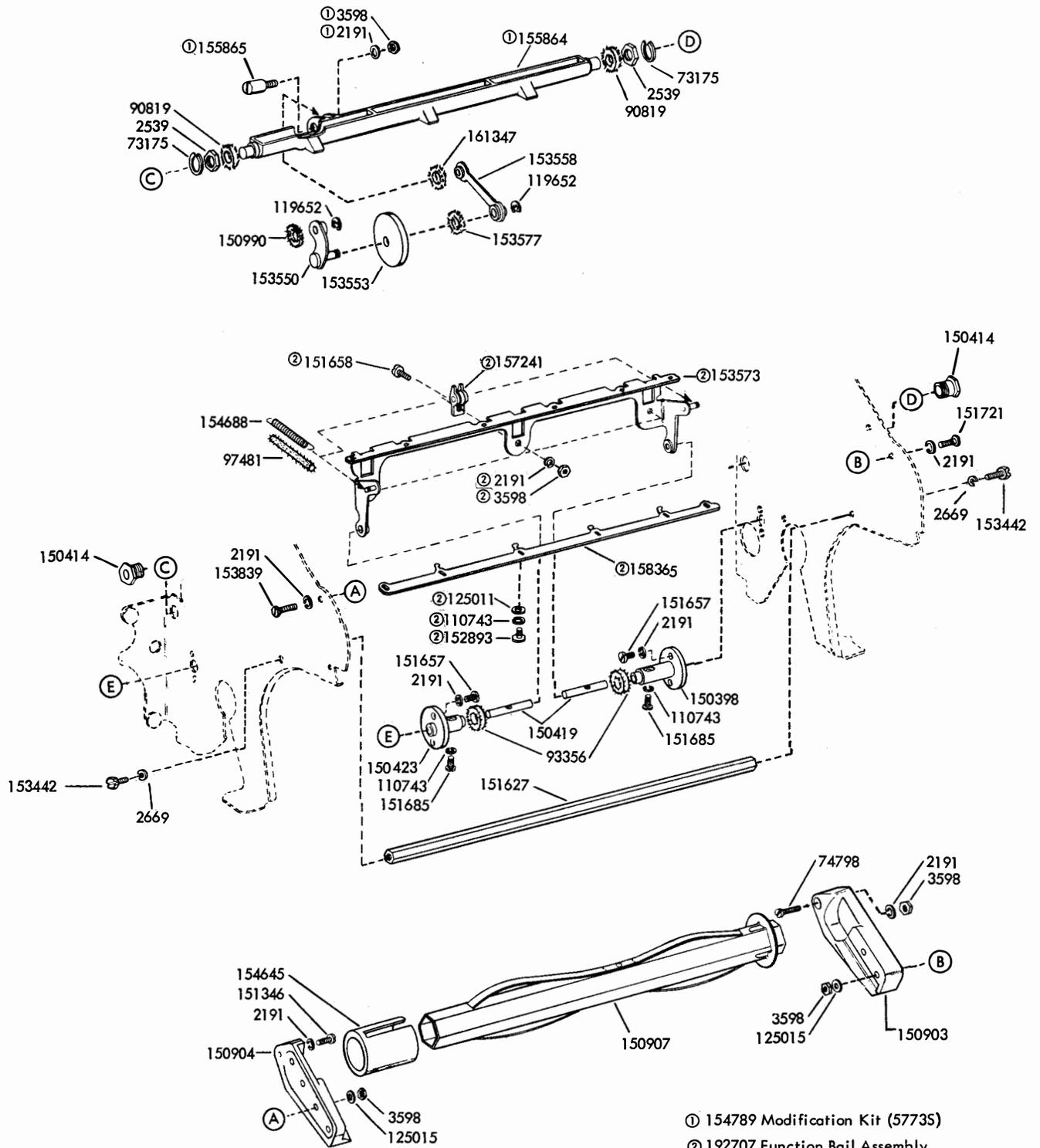
ⓐ Part of 305773 Cable Assembly

FIGURE 12. ELECTRICALLY OPERATED LETTERS SHIFT MECHANISM

FIGURE 13. PAGE FEED-OUT AND FORM STARTER MECHANISM



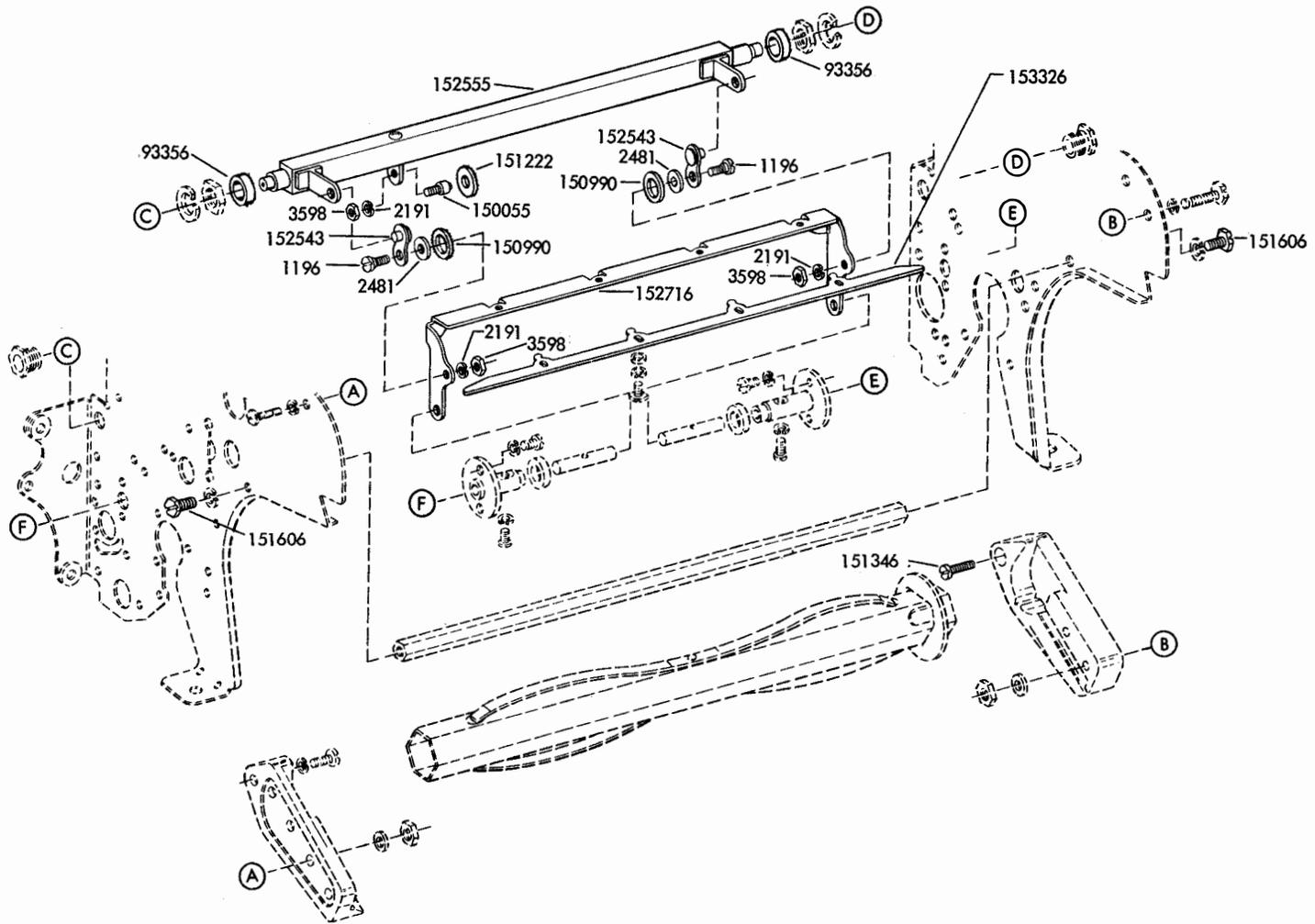
See note 4 on page 115



① 154789 Modification Kit (57735)  
 ② 192707 Function Bail Assembly  
 For Early Design, see Figures 15 and 16

FIGURE 14. PAPER SPINDLE AND RESET BAIL MECHANISM

FIGURE 15. PAPER SPINDLE AND RESET BAIL MECHANISM

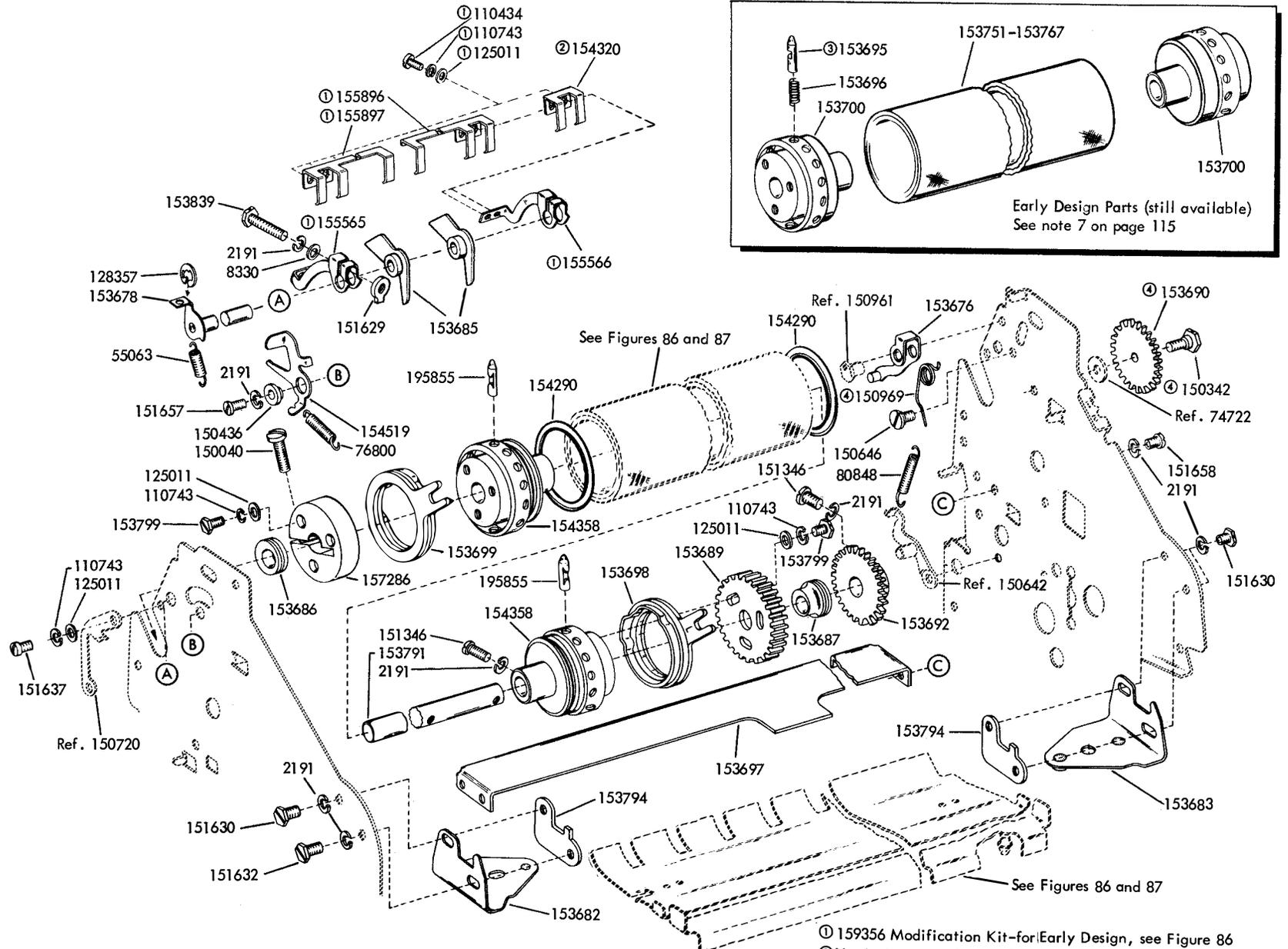


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Early Design Parts

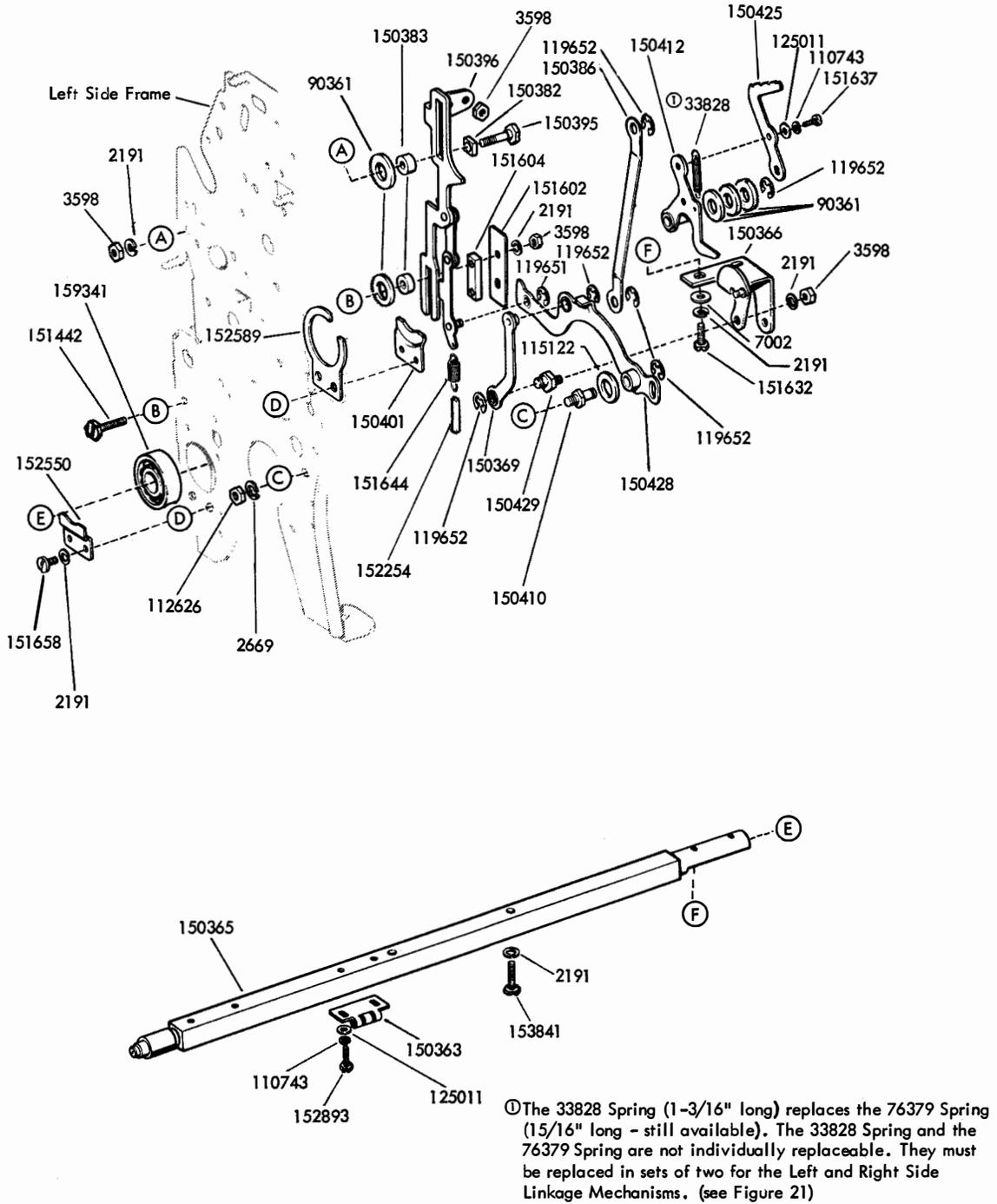


FIGURE 17. SPROCKET FEED MECHANISM



- ① 159356 Modification Kit—for Early Design, see Figure 86
- ② Used with paper form widths of 4-1/4" or narrower
- ③ The 153695 Pin (steel) is no longer available. It has been replaced with a 195855 Pin (plastic)
- ④ For Late Design, see 305035 Modification Kit in Figure 126





For Early Design, see Figure 20

FIGURE 19. LEFT SIDE LINKAGE AND ROCKER SHAFT MECHANISM

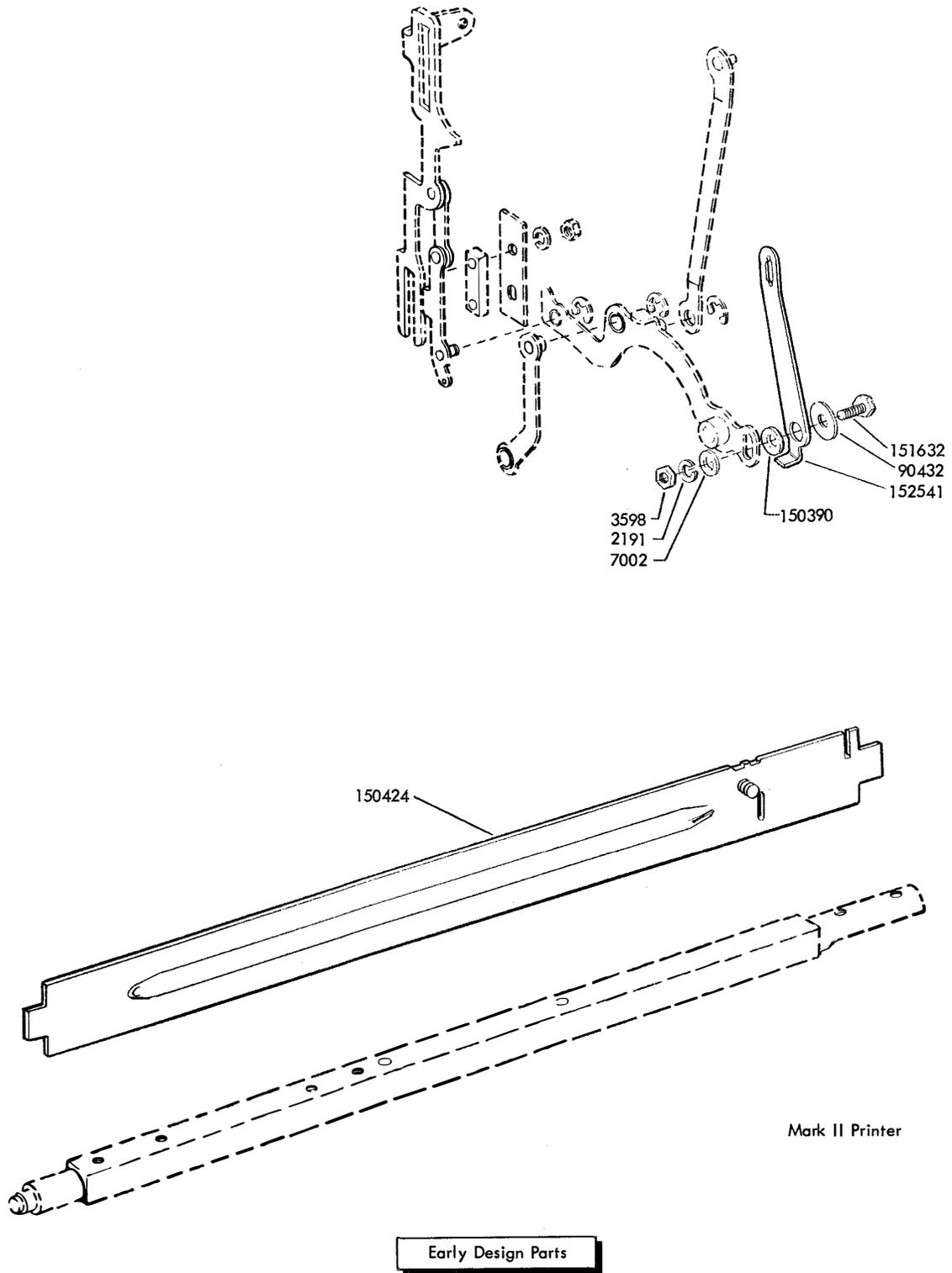
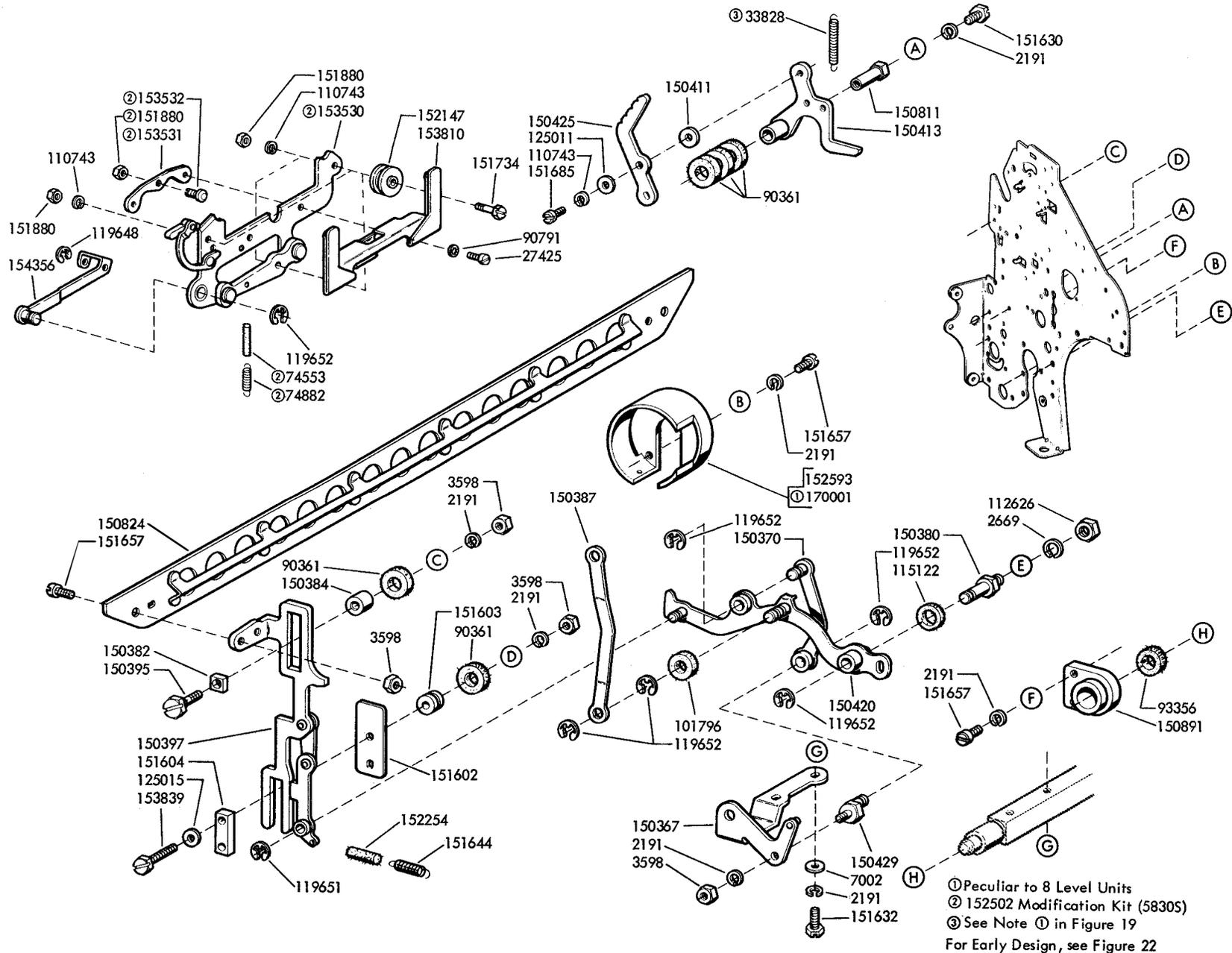
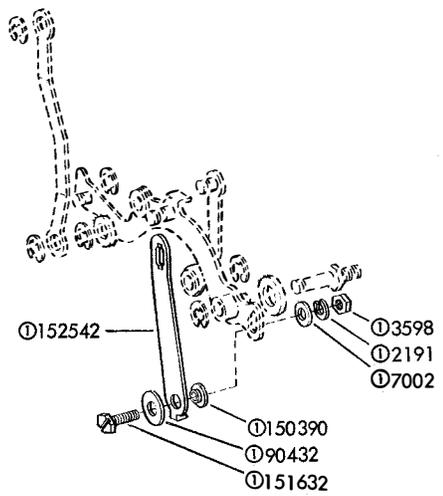
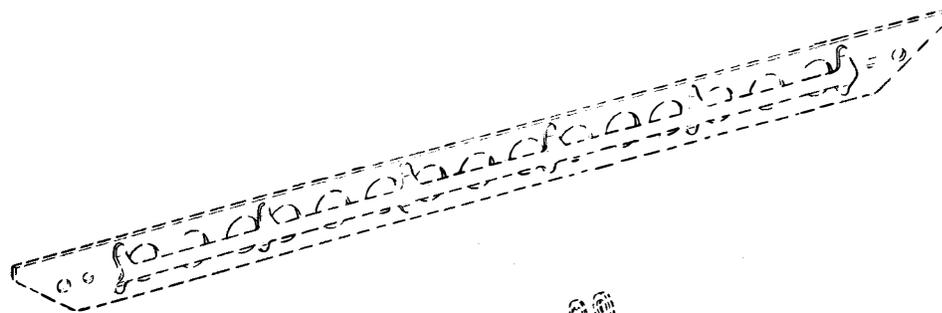
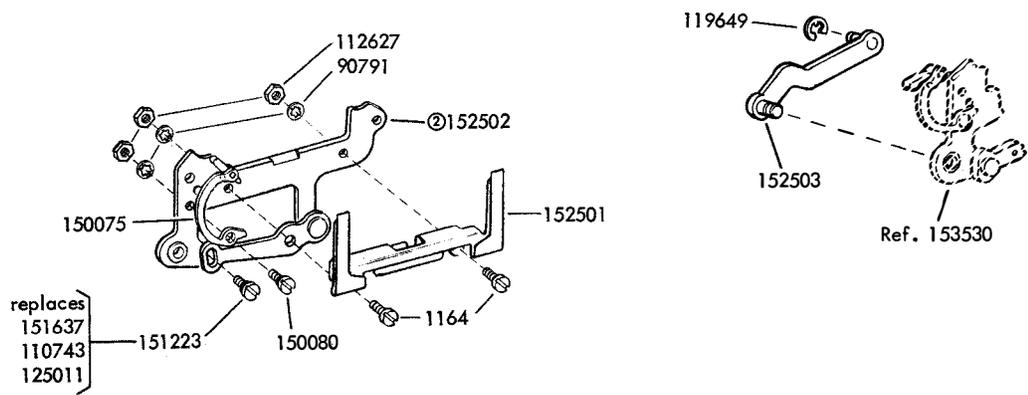


FIGURE 20. LEFT SIDE LINKAGE AND STRIPPER BLADE MECHANISM

FIGURE 21. RIGHT SIDE LINKAGE AND TYPE BOX CARRIAGE MECHANISM





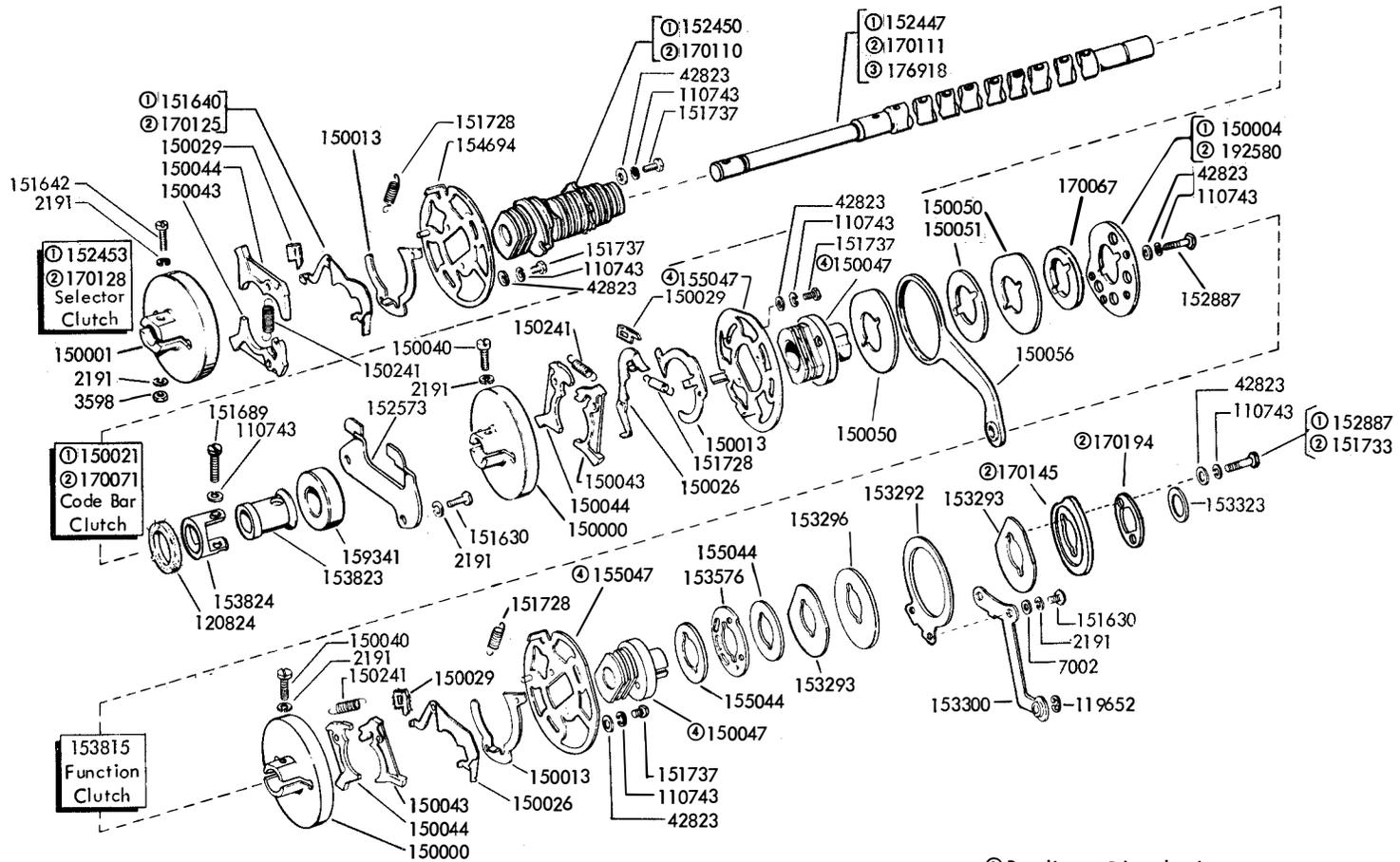
Early Design Parts

① Mark II Printer  
② See note 8 on page 115

FIGURE 22. RIGHT SIDE LINKAGE AND TYPE BOX CARRIAGE MECHANISM



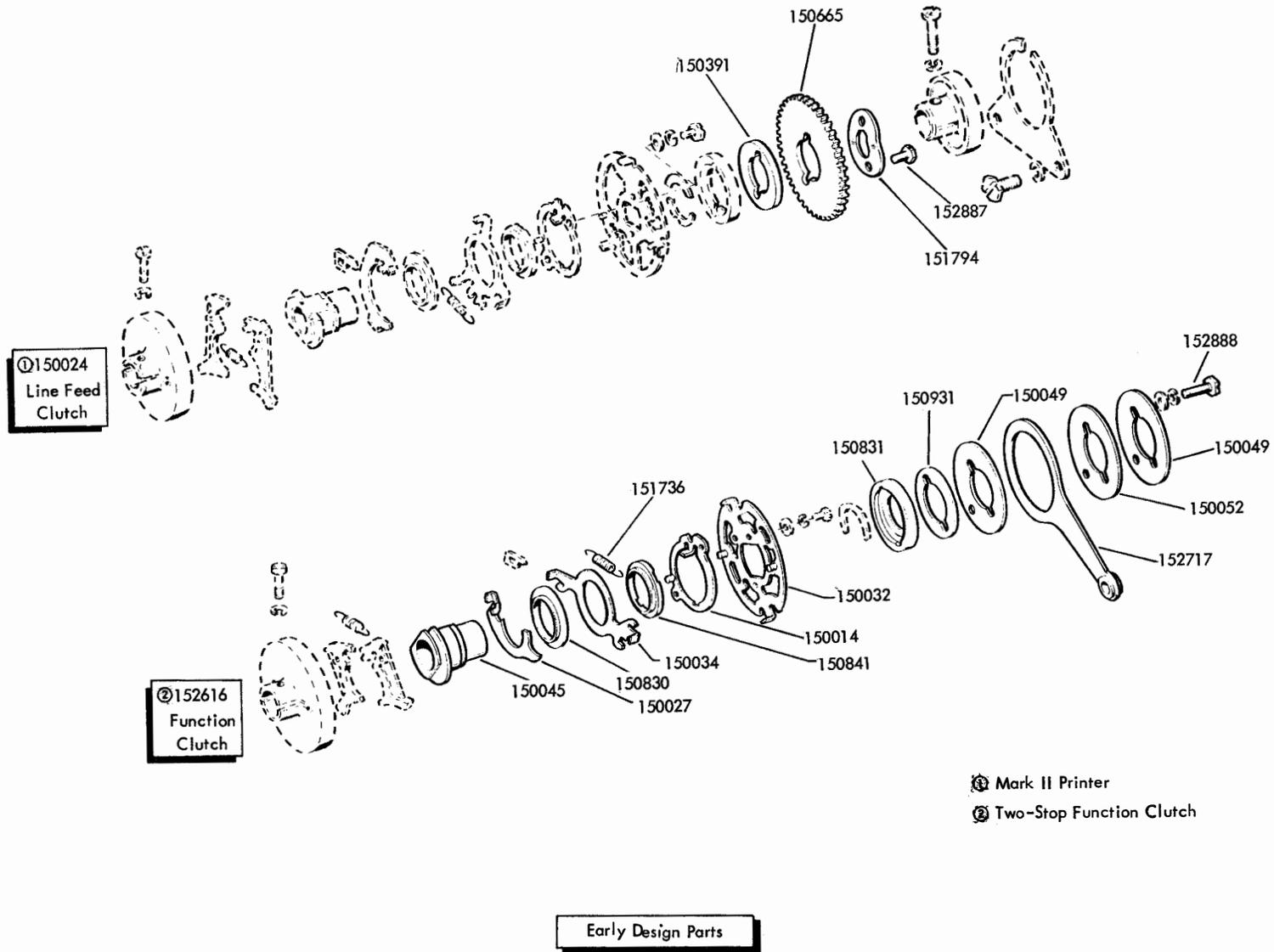
FIGURE 24. MAIN SHAFT MECHANISM



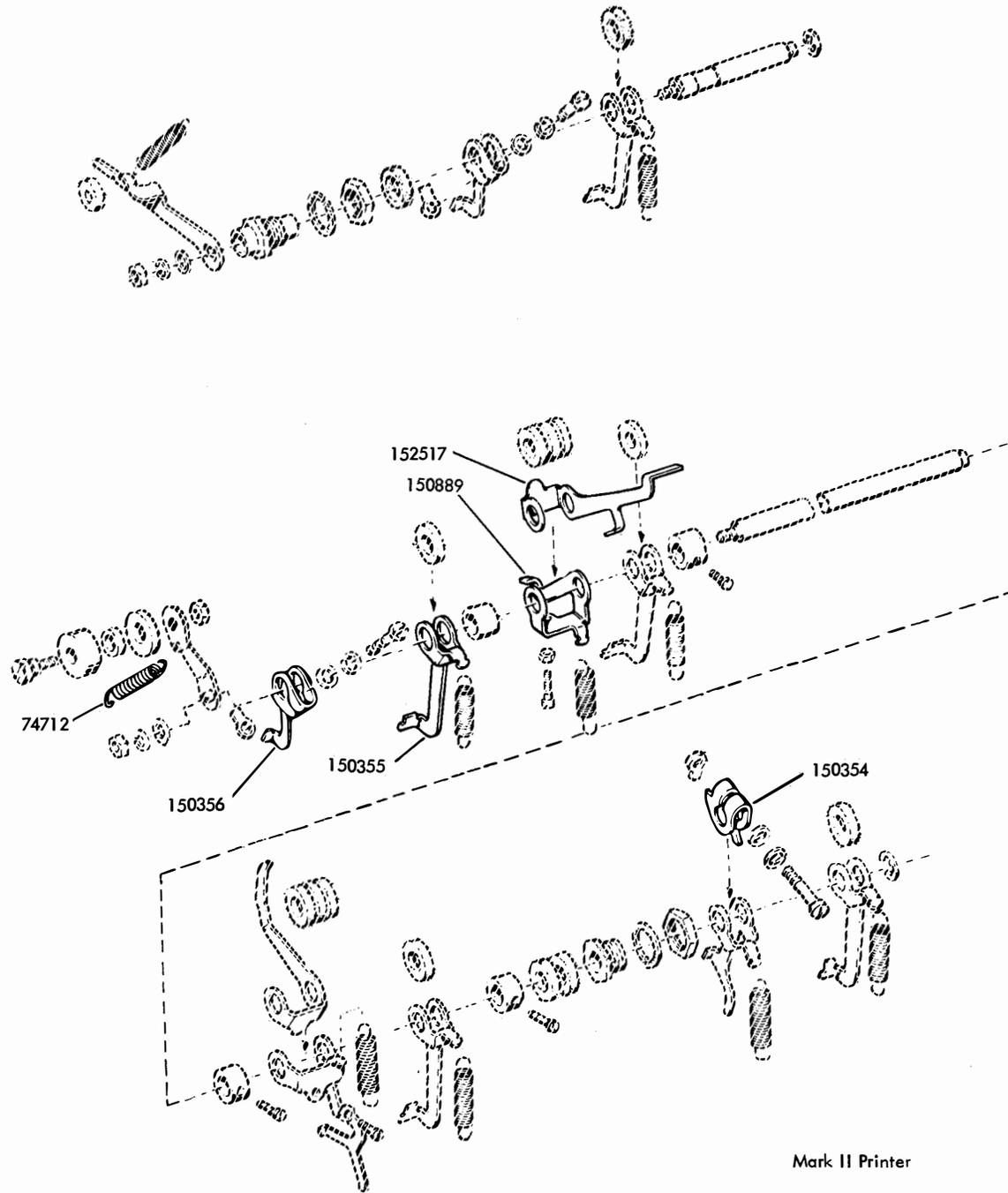
- ① Peculiar to 5 Level units
- ② Peculiar to 8 Level units
- ③ Peculiar to Wall Mounted units
- ④ When replacing an Early Design 155047 Disk without hubs with a Late Design Disk with hubs, a Late Design 150047 Bearing with countersunk mounting holes should also be used.

For Early Design, see Figure 25

FIGURE 25. LINE FEED CLUTCH AND FUNCTION CLUTCH MECHANISM







Early Design Parts

FIGURE 27. TRIP SHAFT MECHANISM

FIGURE 28. CARRIAGE RETURN AND SPACING DRUM MECHANISM

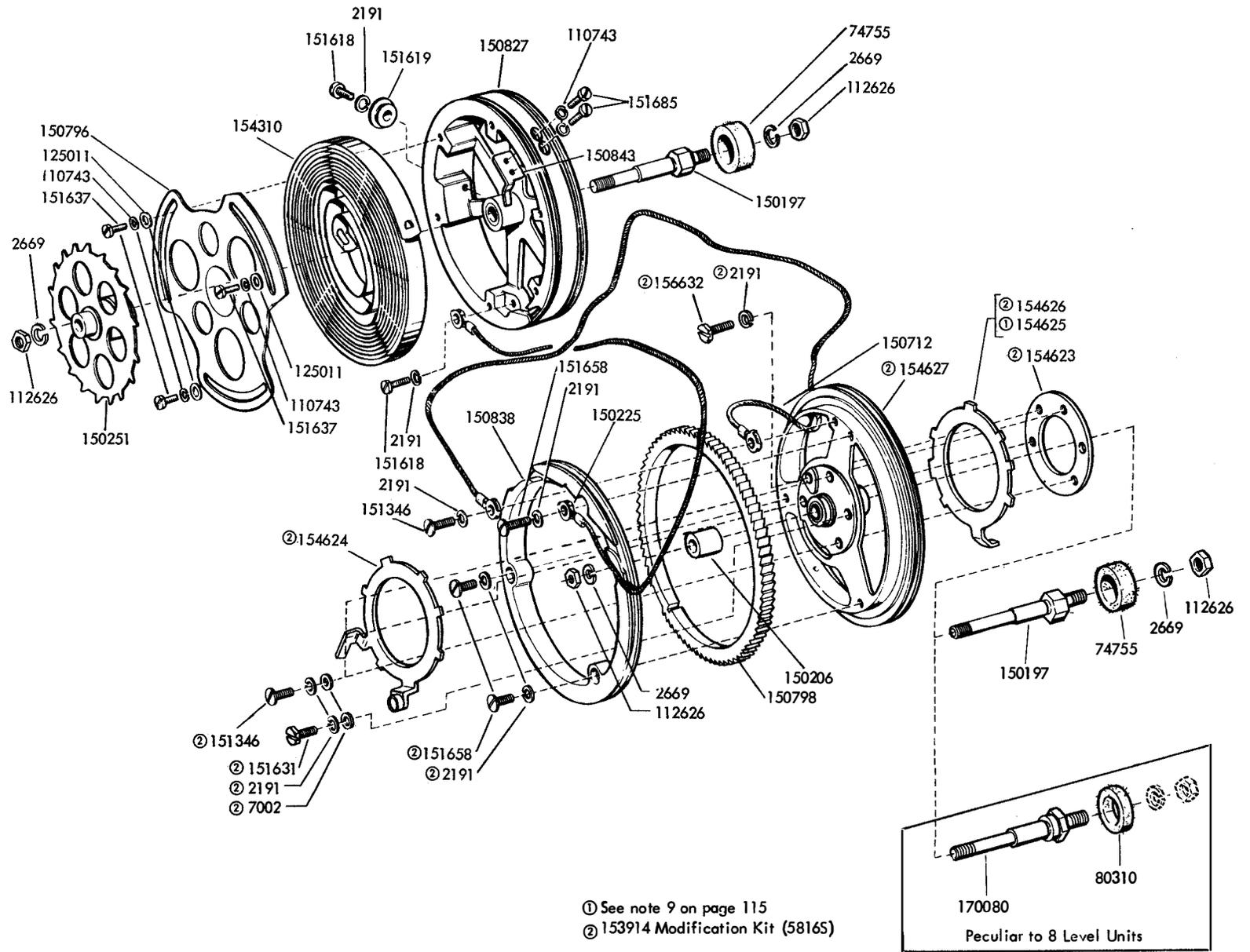
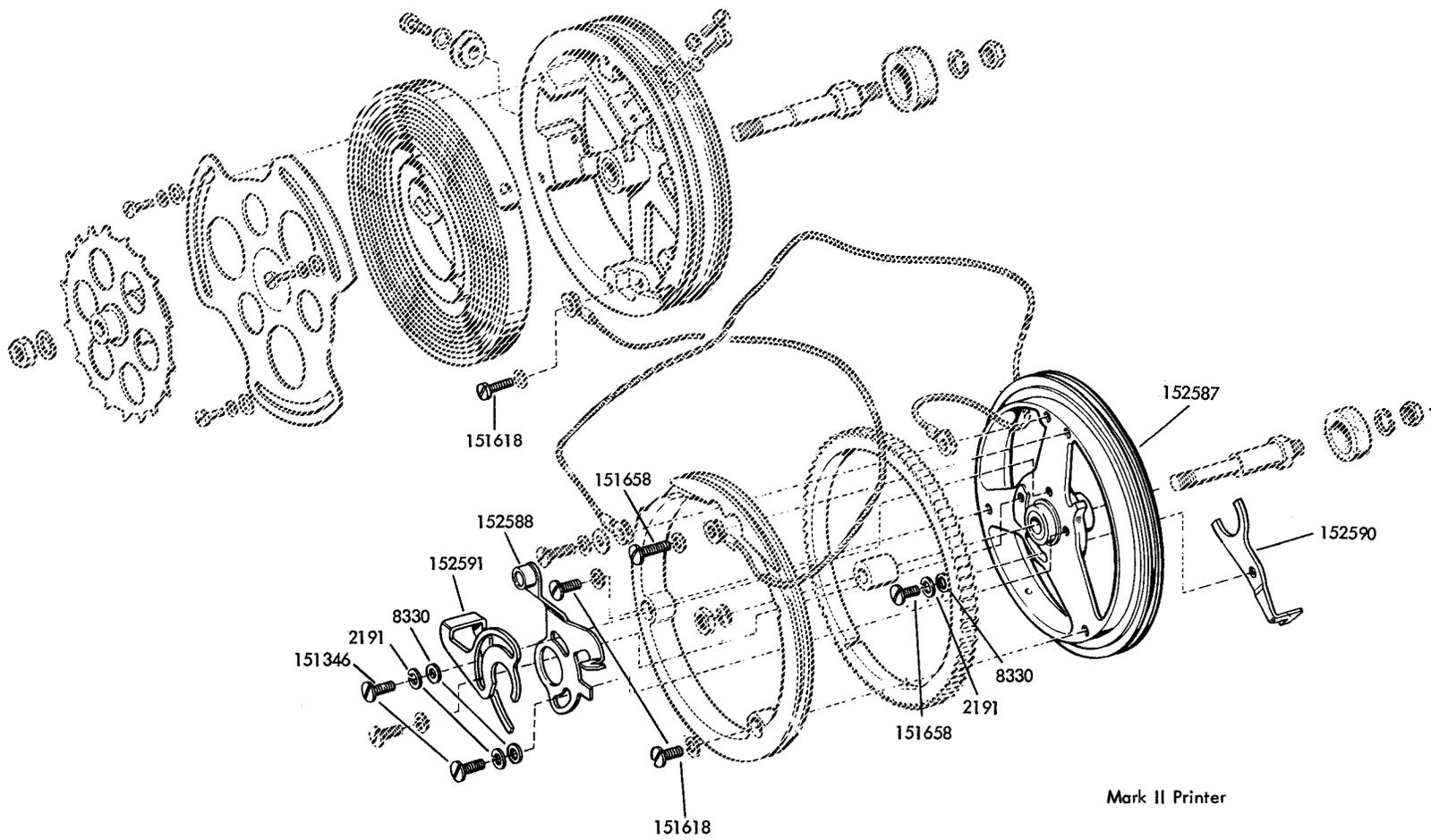


FIGURE 29. CARRIAGE RETURN AND SPACING DRUM MECHANISM

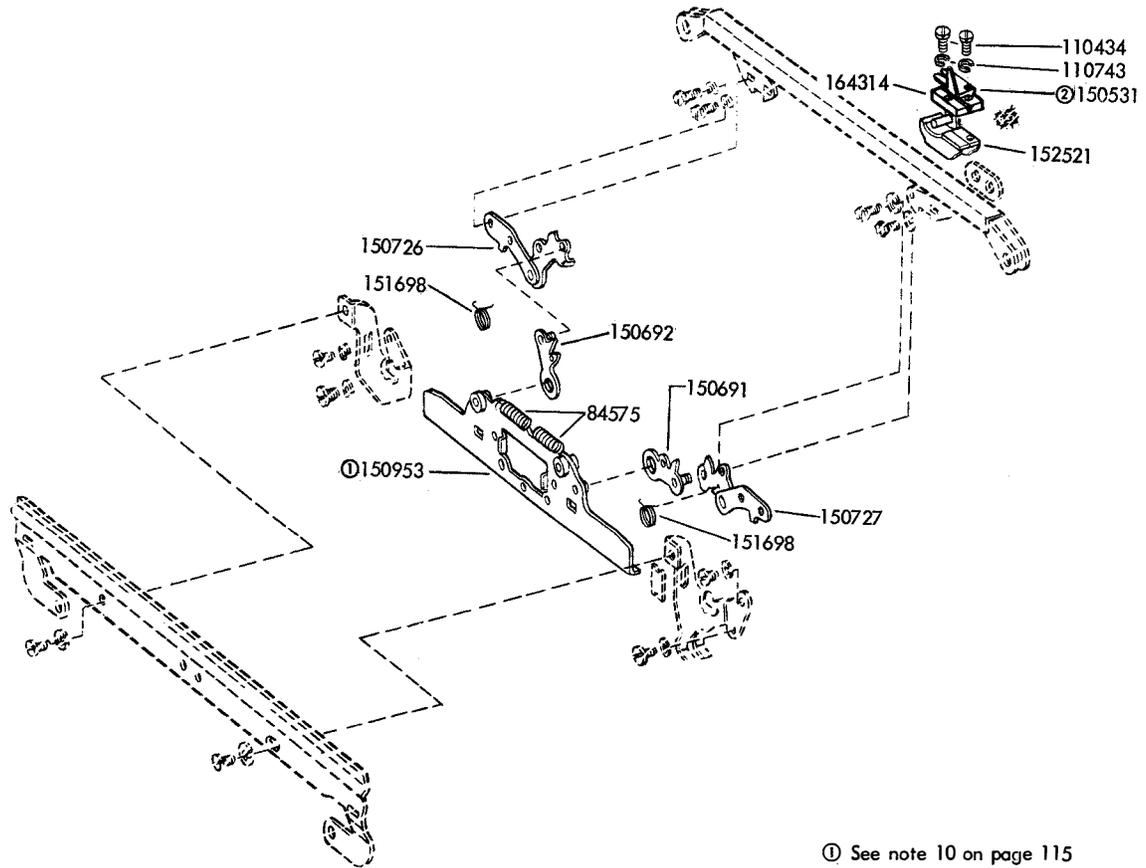


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Early Design Parts



FIGURE 31. FRONT PLATE MECHANISM

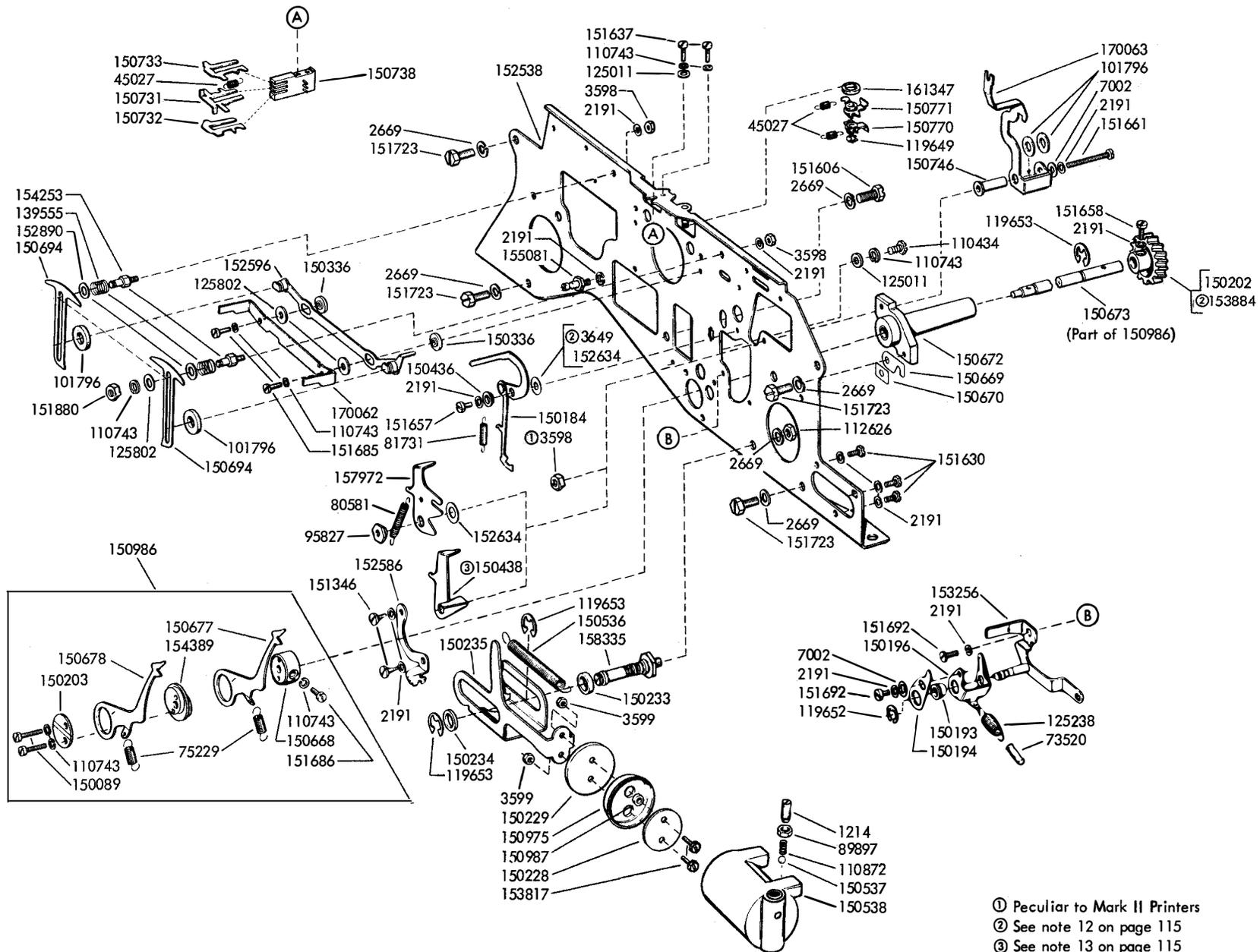


① See note 10 on page 115

② See note 11 on page 115

Early Design Parts

FIGURE 32. FRONT PLATE MECHANISM



① Peculiar to Mark II Printers  
 ② See note 12 on page 115  
 ③ See note 13 on page 115

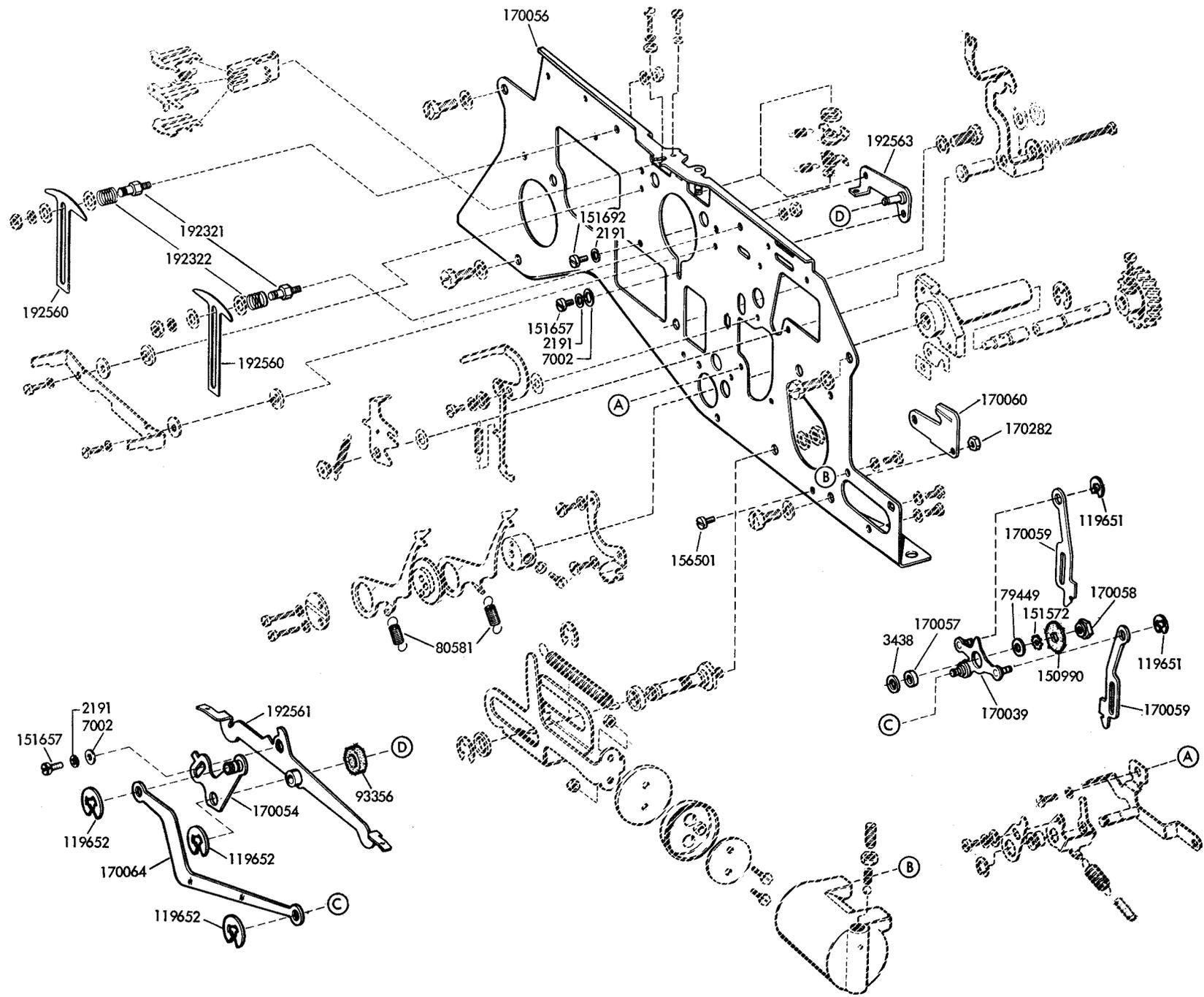
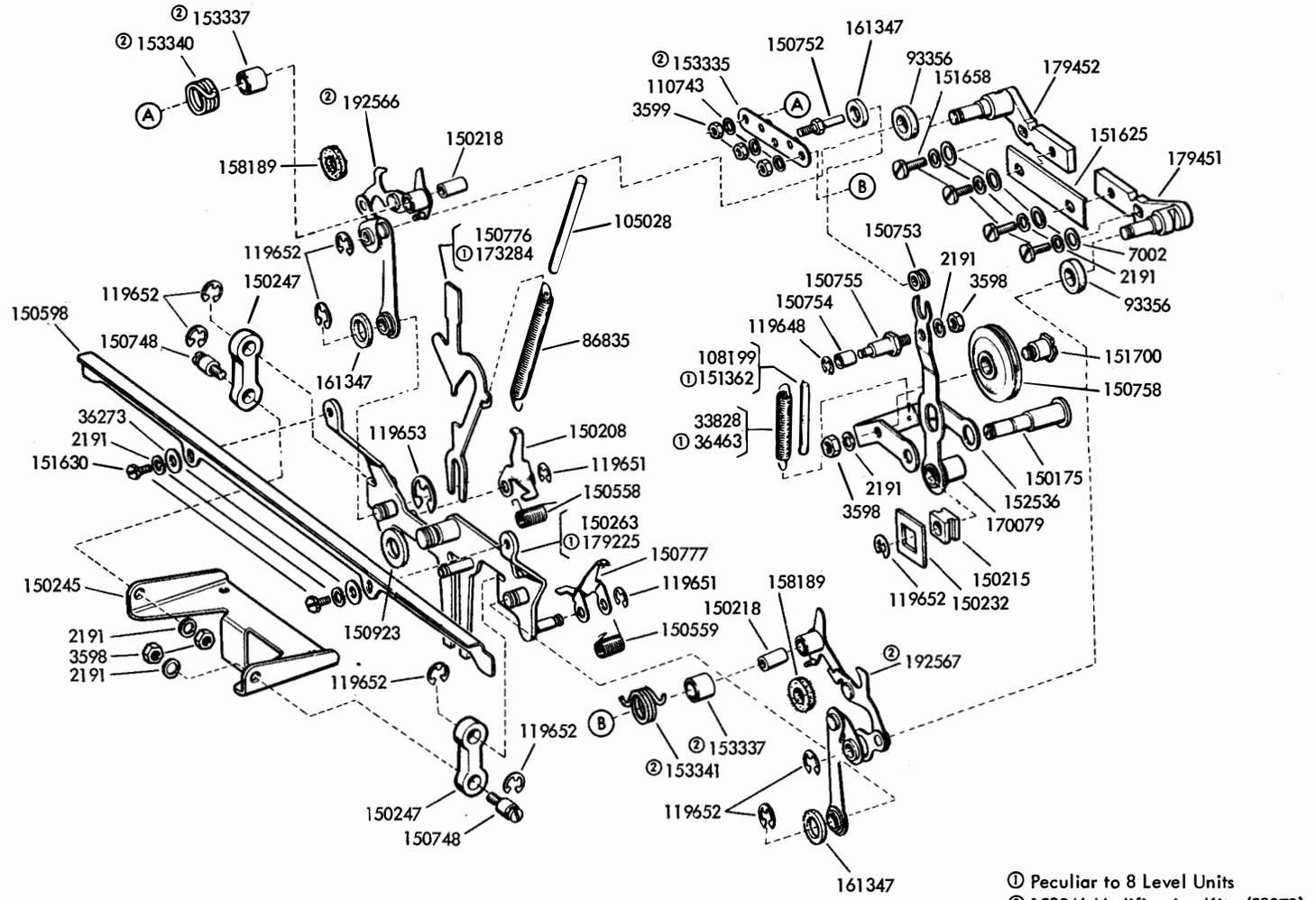
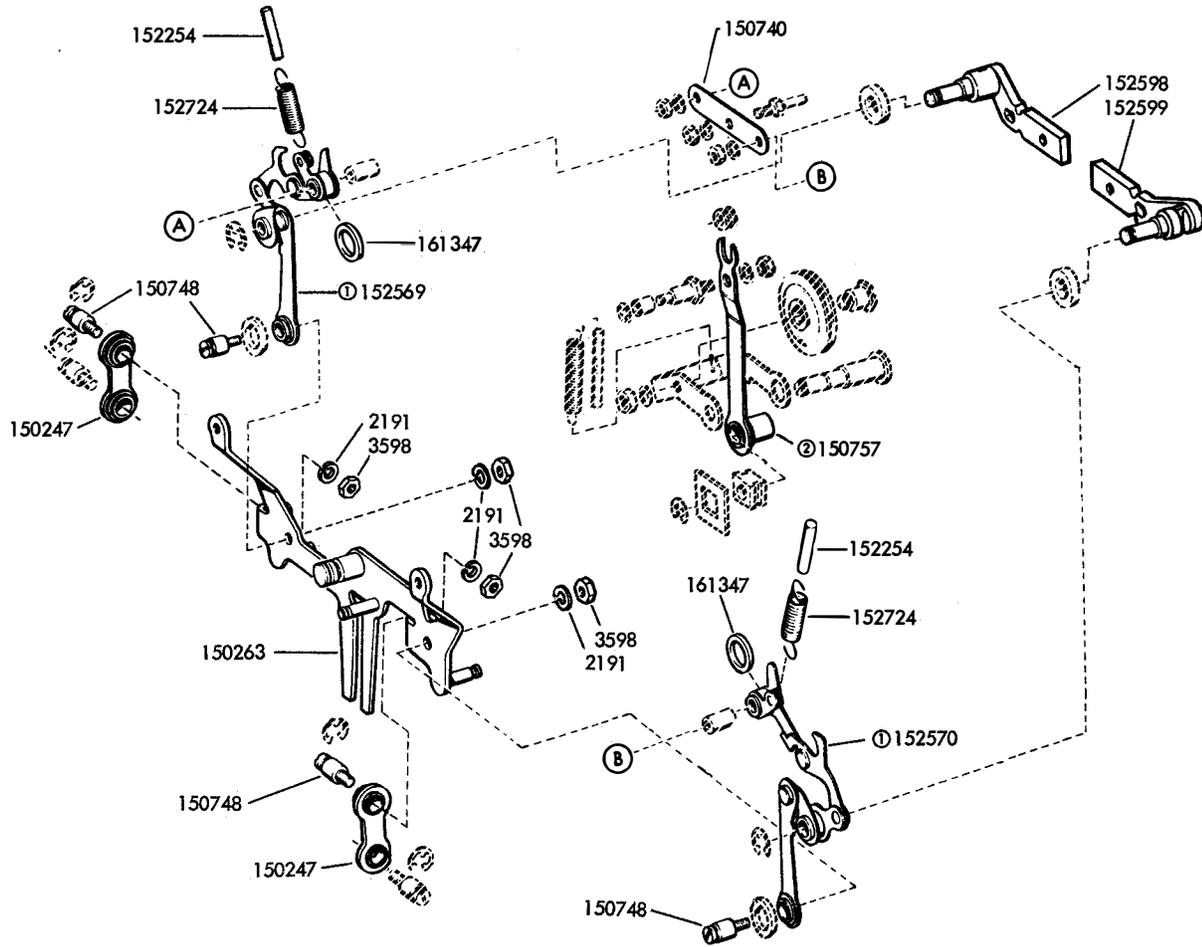


FIGURE 33. FRONT PLATE MECHANISM (8 LEVEL)

FIGURE 34. FRONT PLATE MECHANISM



① Peculiar to 8 Level Units  
 ② 153946 Modification Kit (58075)  
 For Early Design, see Figure 35

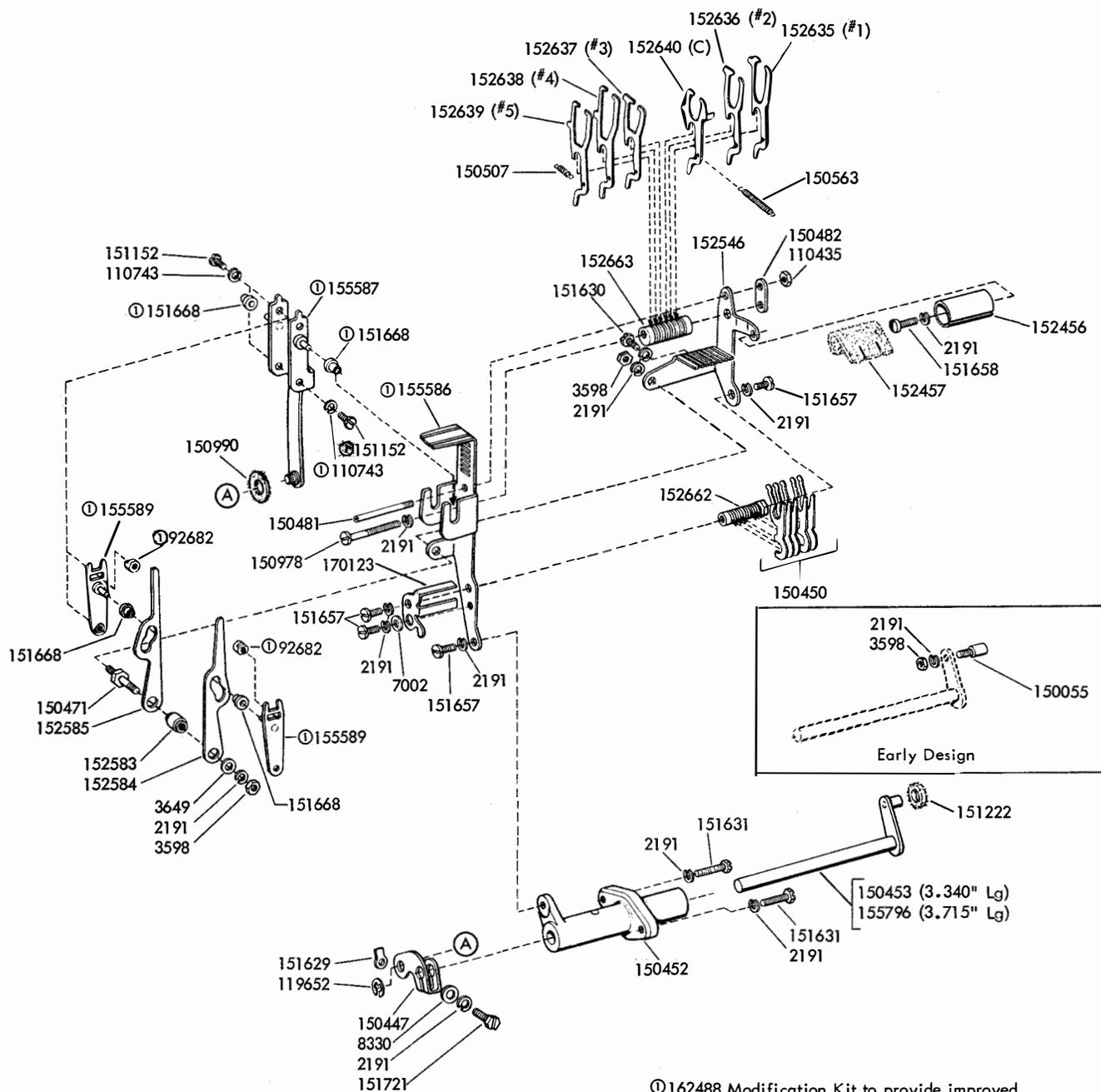


Early Design Parts

① See note 14 on page 115

② See note 15 on page 115

FIGURE 35. FRONT PLATE MECHANISM



①162488 Modification Kit to provide improved Code Bar Positioning Mechanism (5922S)

For Early Design, see Figure 38

FIGURE 36. CODE BAR POSITIONING MECHANISM

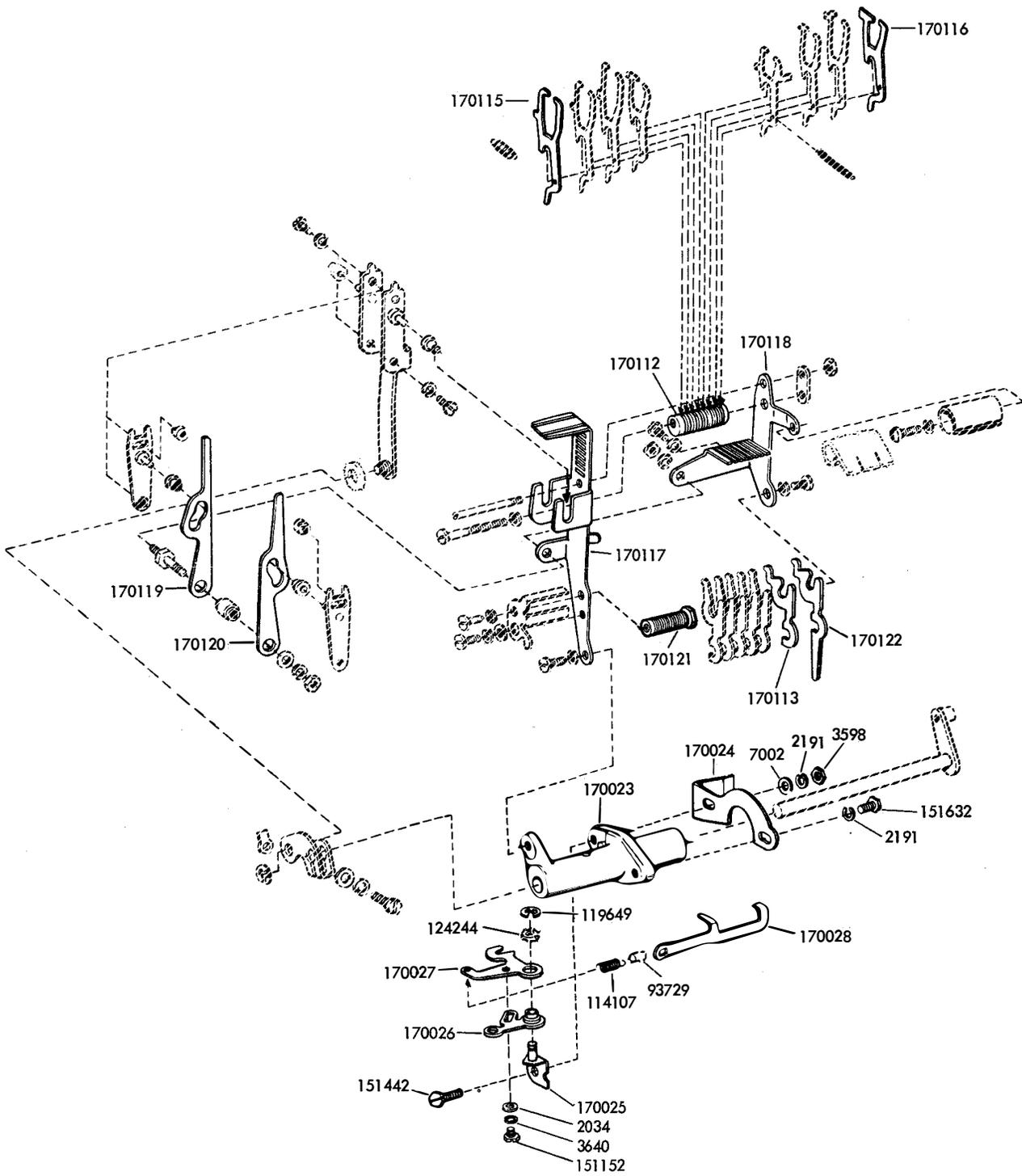
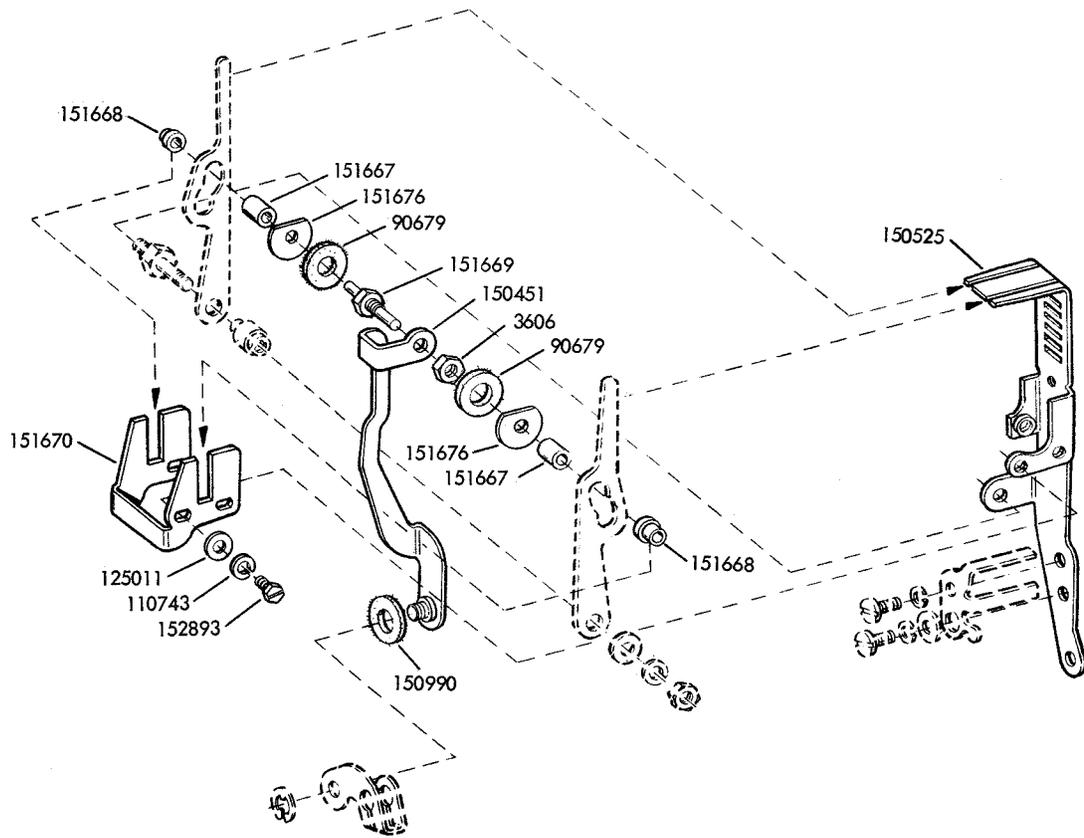


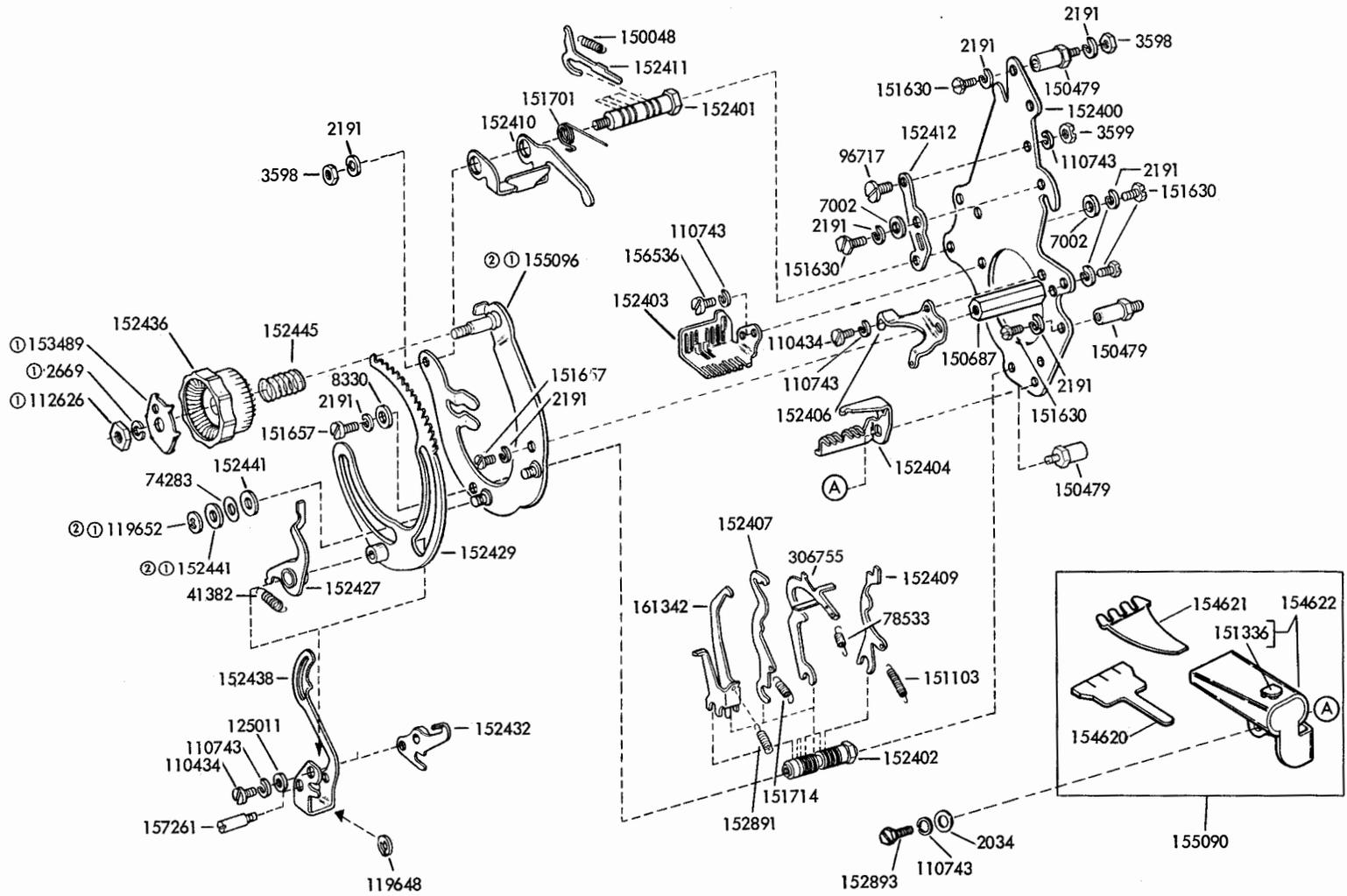
FIGURE 37. CODE BAR POSITIONING MECHANISM (8 LEVEL)



Early Design Parts

FIGURE 38. CODE BAR POSITIONING MECHANISM

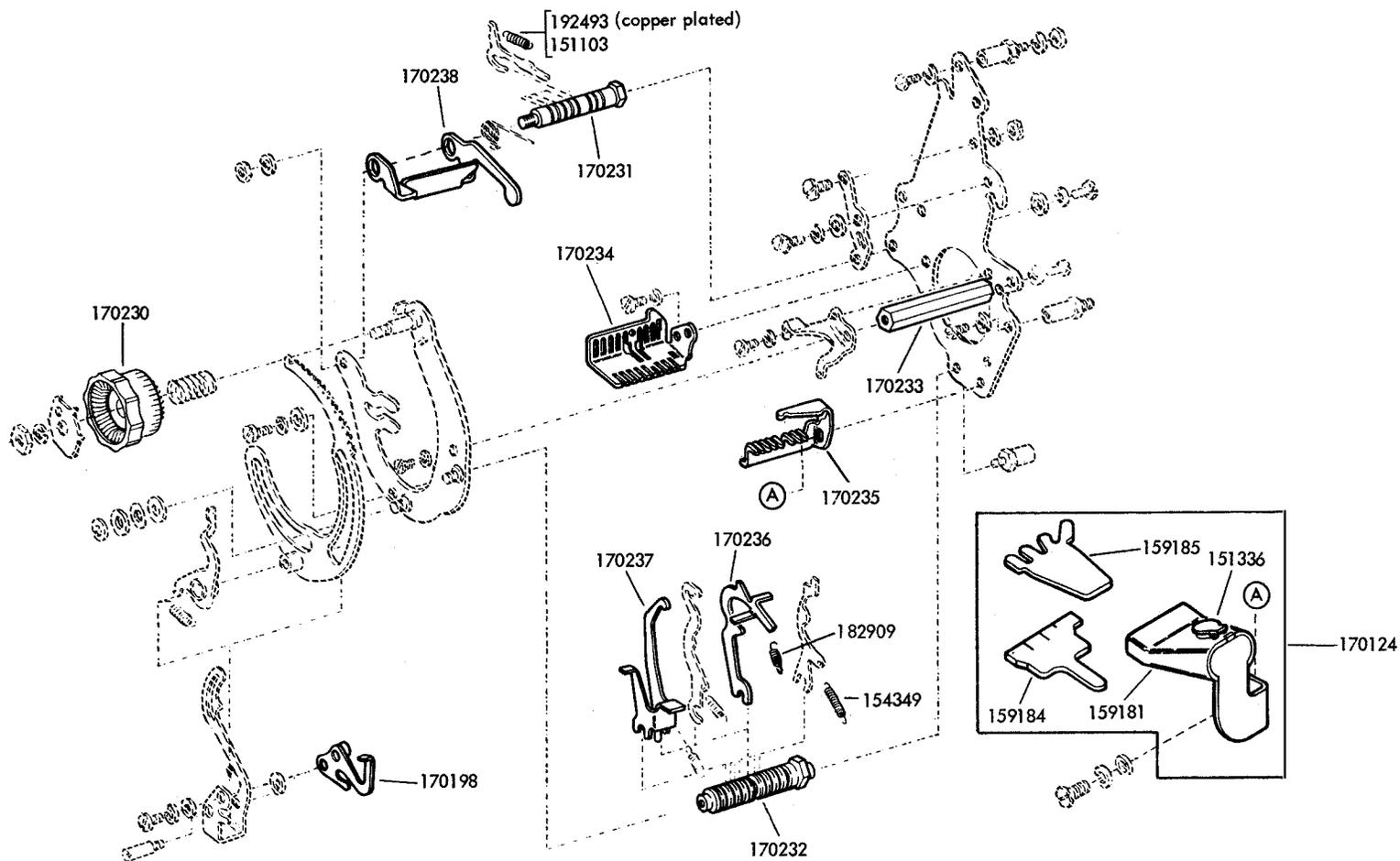
FIGURE 39. SELECTOR MECHANISM

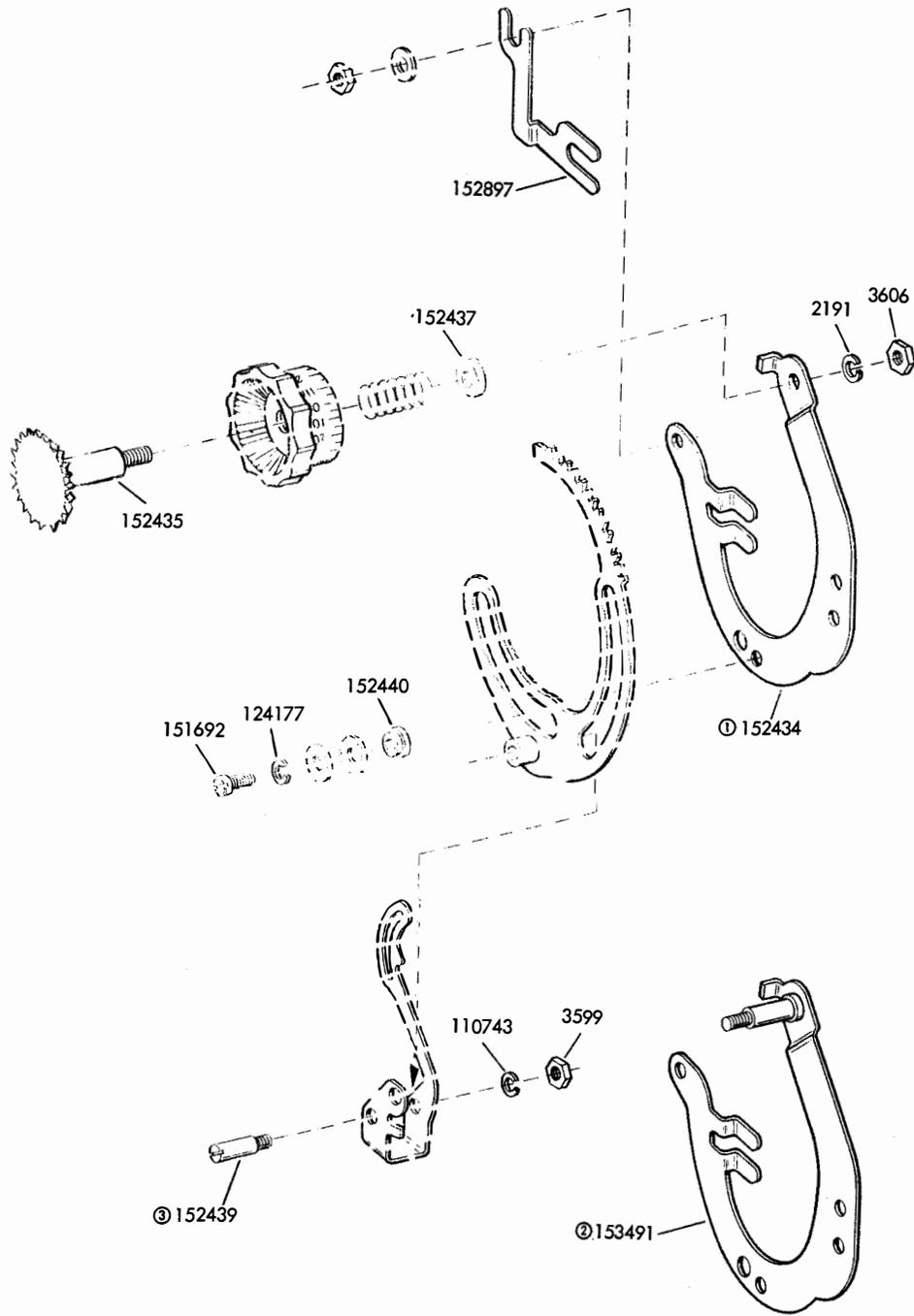


- ① 153904 Modification Kit (5843S)
- ② 154723 Modification Kit (5843S)

For Early Design, see Figure 41

FIGURE 40. SELECTOR MECHANISM (8 LEVEL)





Early Design Parts

- ① See note 16 on page 115
- ② See note 17 on page 115
- ③ See note 18 on page 115

FIGURE 41. SELECTOR KNOB MECHANISM



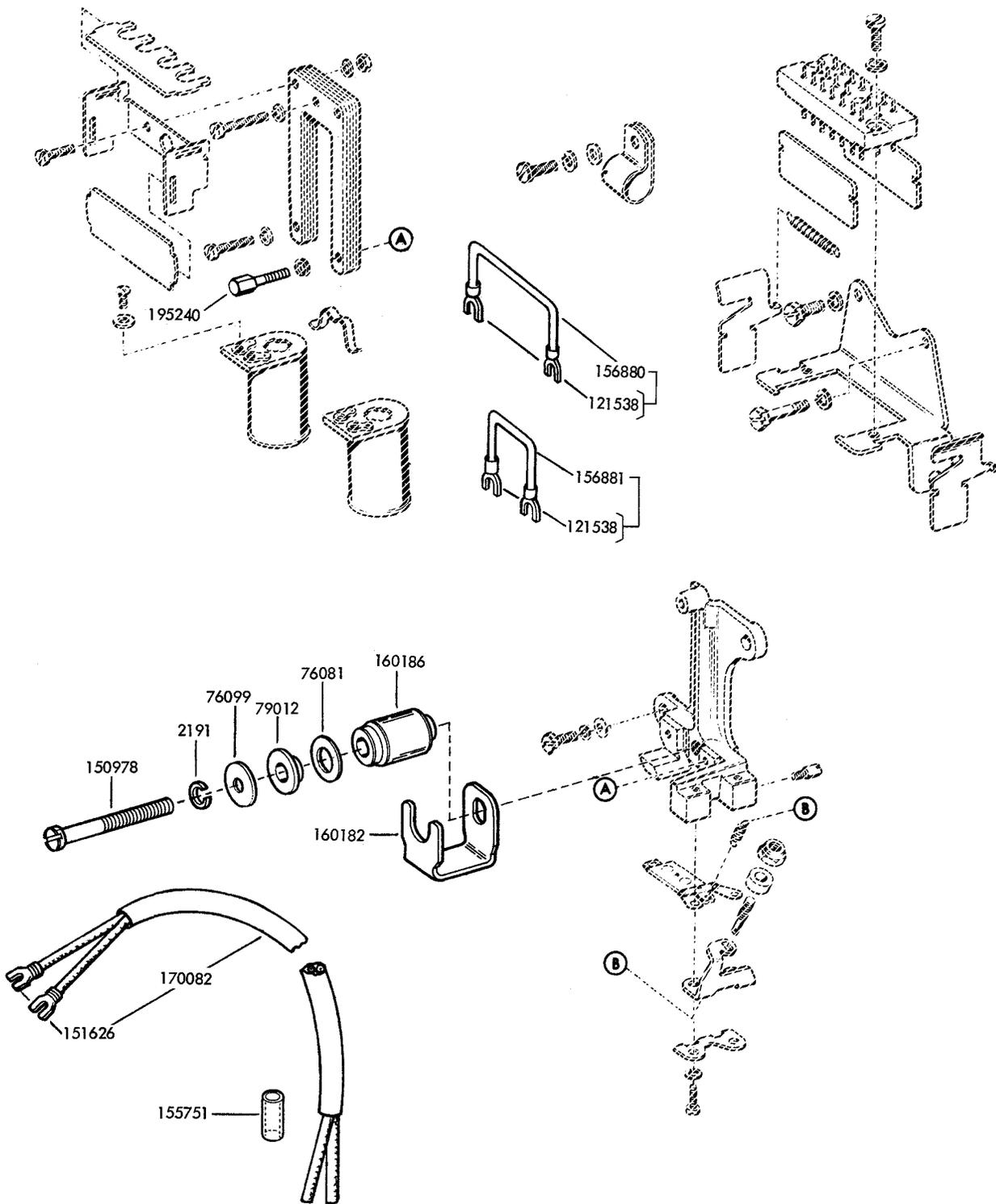
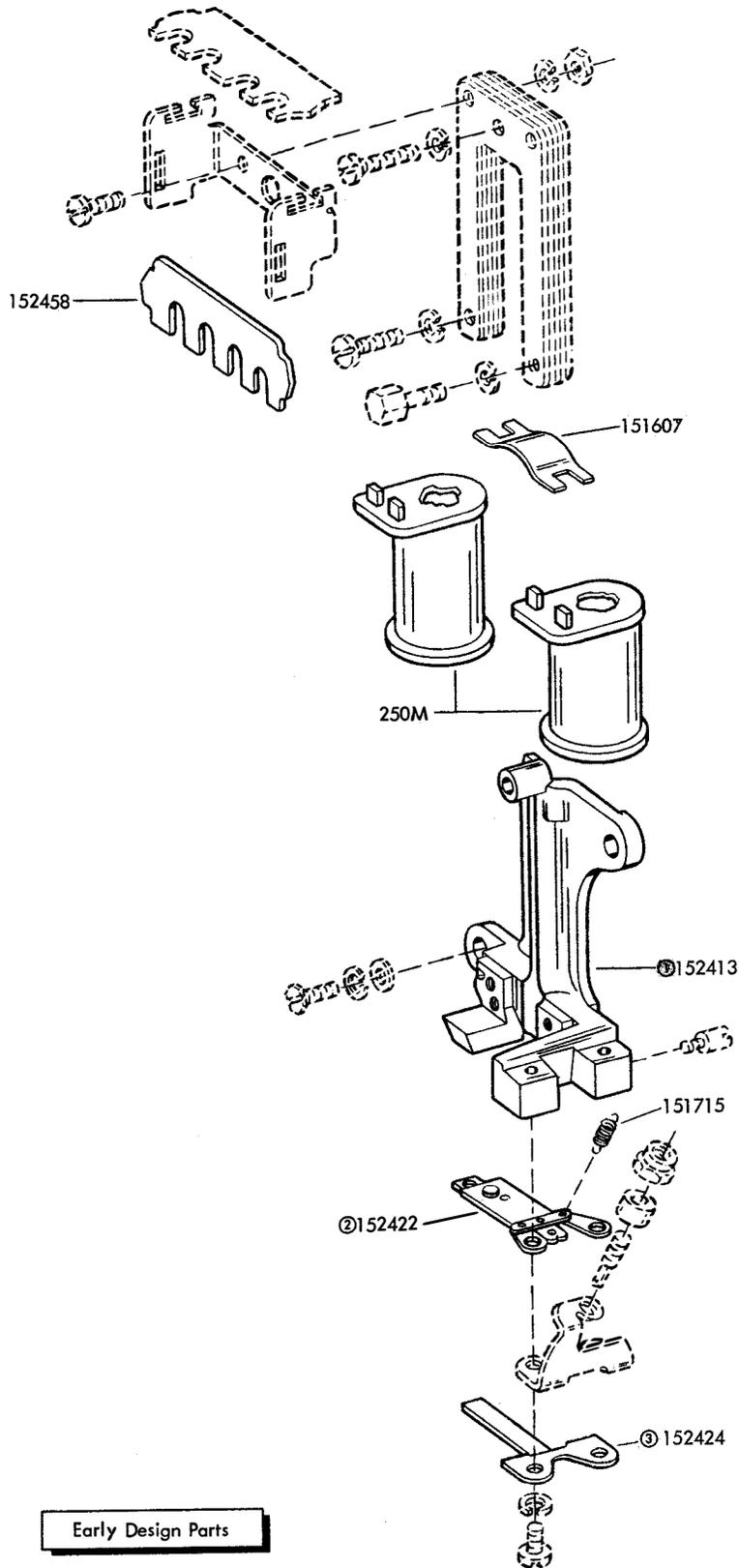


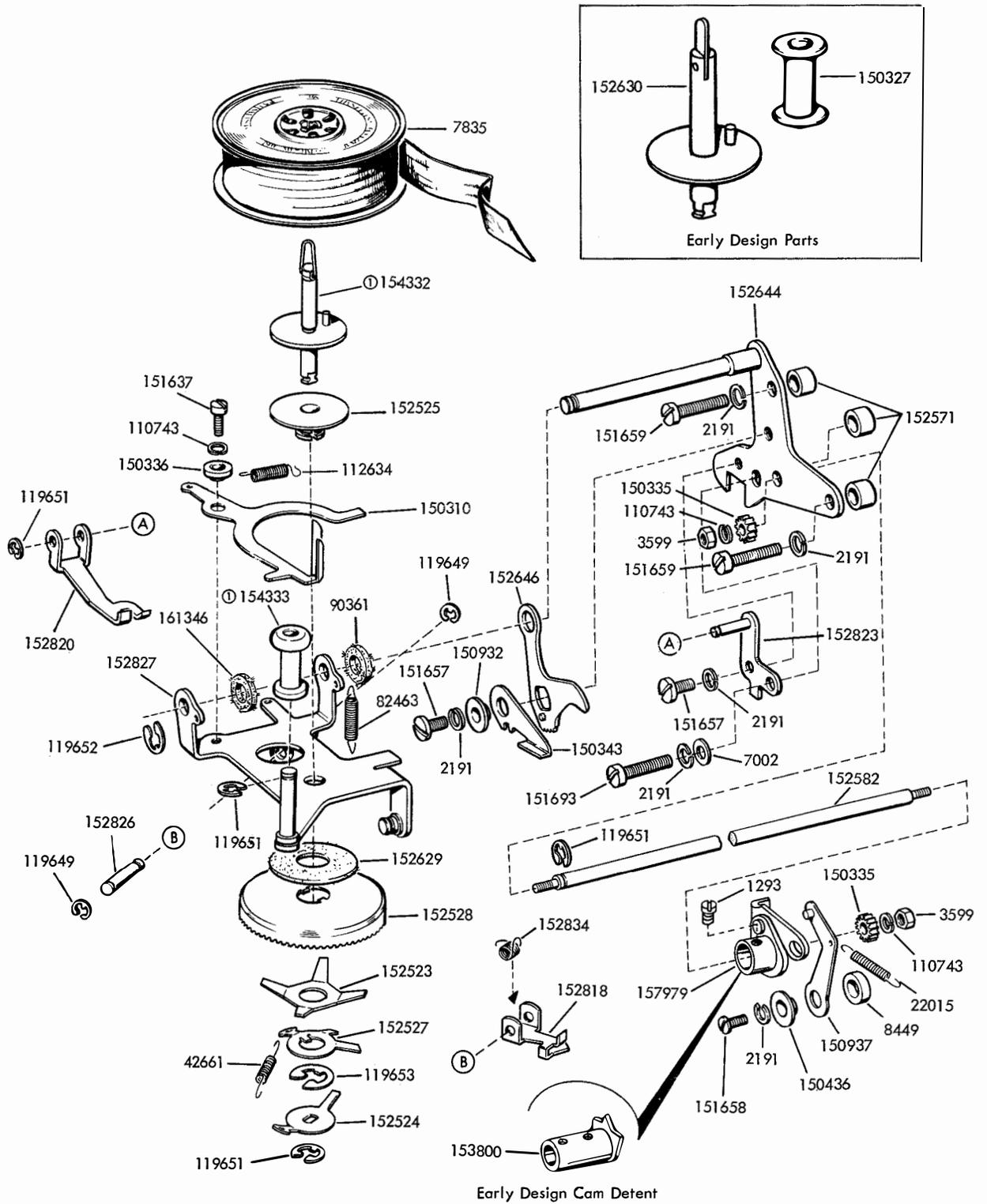
FIGURE 43. SELECTOR MAGNET MECHANISM (8 LEVEL)



- ① See note 20 on page 115
- ② See note 21 on page 115
- ③ See note 22 on page 115

FIGURE 44. SELECTOR MAGNET MECHANISM



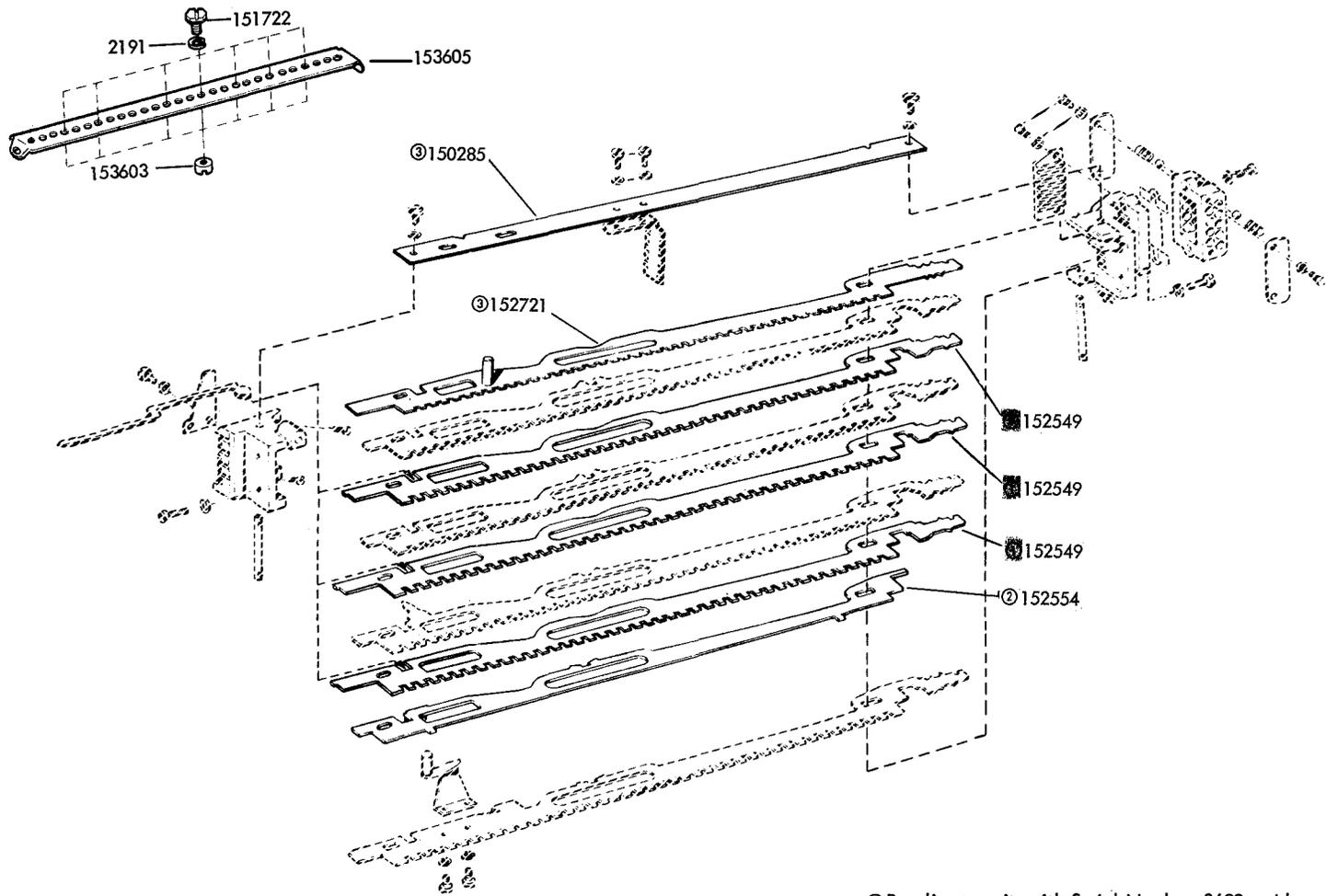


Ⓞ 154334 Modification Kit (5872S)

FIGURE 46. LEFT RIBBON FEED MECHANISM



FIGURE 48. CODE BAR MECHANISM



- ① Peculiar to units with Serial Numbers 8699 and lower
- ② See note 23 on page 115
- ③ See note 24 on page 115

Early Design Parts

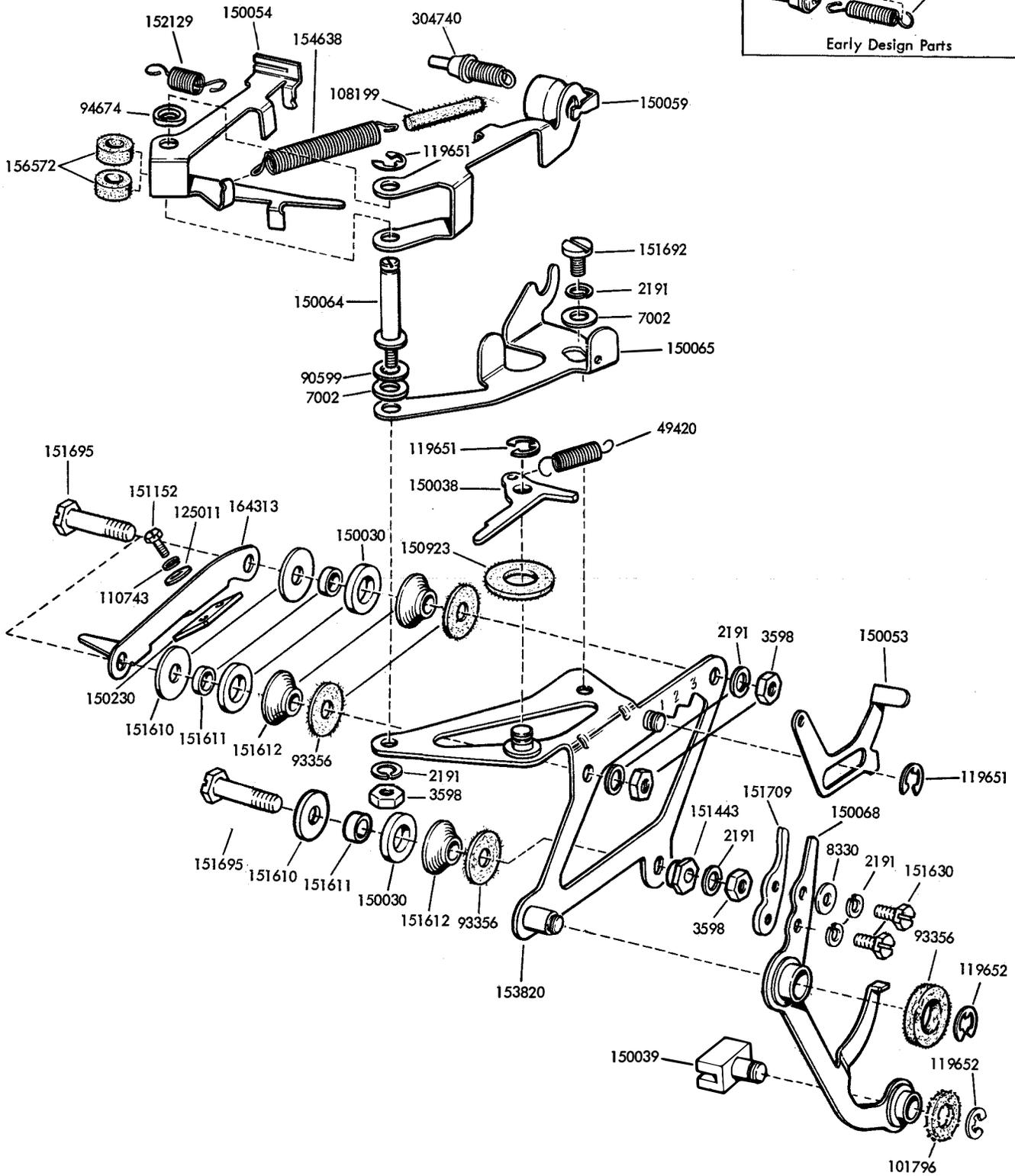
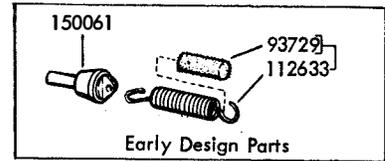
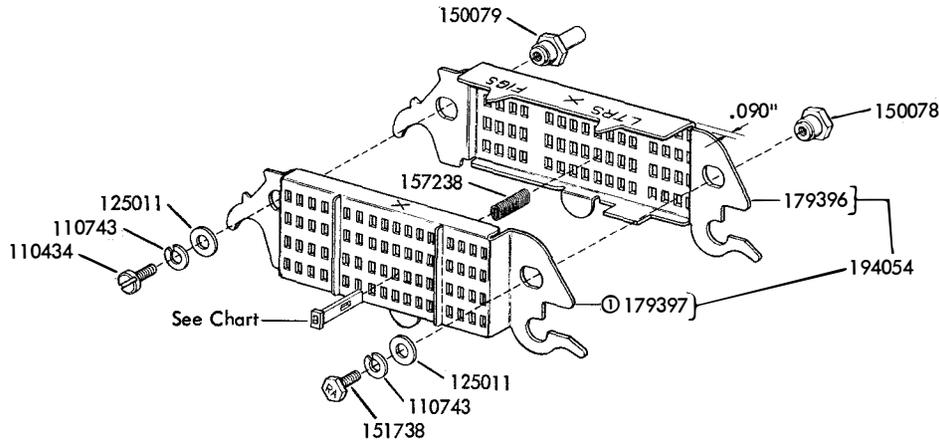
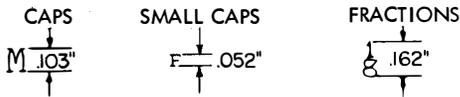


FIGURE 49. 150036 PRINTING CARRIAGE ASSEMBLY



Murray Style Pallets  
(10 characters per inch spacing)



Note: Part number of 151738 Identification Screw to include two letter suffix of type box arrangement.

MURRAY STYLE PALLETS													
PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER
A	157600	F	157605	K	157610	P	157615	U	157620	Z	157625	5	157630
B	157601	G	157606	L	157611	Q	157616	V	157621	1	157626	6	157631
C	157602	H	157607	M	157612	R	157617	W	157622	2	157627	7	157632
D	157603	I	157608	N	157613	S	157618	X	157623	3	157628	8	157633
E	157604	J	157609	O	157614	T	157619	Y	157624	4	157629	9	157634

The above pallets are common to all Murray Style Arrangements

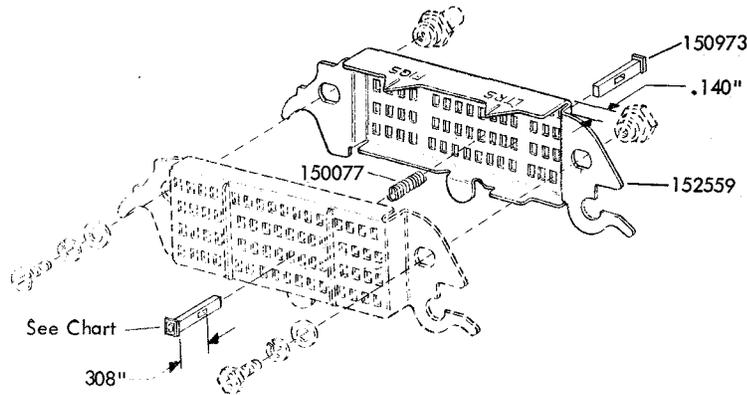
ADDITIONAL MURRAY STYLE PALLETS													
PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER	PALLET	NUMBER
CS	155880	H	155868	n	157785	z	157788	¢	157658	≡	155870	⊞	157721
c	157780	J	157796	OZ	155879	¡	157805	@	157726	■	155873	⊞	157722
DZ	157801	j	157783	∅	157725	/16	155874	△	157807	«	155877		157727
É	155869	K	157797	§	157794	/32	155875	○	157728	»	155878	-	157642
EA	157799	k	157784	s	157786	...	155876	±	157806	~	155871		
F	157795	L	157803	t	157787	-	157804	=	157678	^	155872		
f	157781	Ñ	157716	YD	157800	%	157660	x	157715	⊞	157719		
g	157782	n	157798	Yd	157802	£	157650	∞	157661	□	157720		

Ⓛ See note 25 on page 115

See Figures 52, 53 and 54 for pallet arrangements

For Early Design, see Figure 51

FIGURE 50. TYPE BOX AND PALLETS



MURRAY STYLE PALLETS

PALLET NUMBER	PALLET NUMBER	PALLET NUMBER	PALLET NUMBER
A 150100	X 150123	! 150146	↘ 151947
B 150101	Y 150124	& 150147	↙ 151948
C 150102	Z 150125	; 150148	+ 151949
D 150103	1 150126	/ 150149	○ 151950
E 150104	2 150127	▼ 150150	⊖ 151951
F 150105	3 150128	1 150151	⊕ 151952
G 150106	4 150129	4 150152	⊗ 151953
H 150107	5 150130	3 150153	x 154536
I 150108	6 150131	2 150154	ñ 154537
J 150109	7 150132	5 150155	∩ 154538
K 150110	8 150133	3 150156	Δ 154539
L 150111	9 150134	7 150157	⊕ 154540
M 150112	- 150143	† 150158	□ 154541
N 150113	. 150135	# 150159	⊞ 154542
O 150114	, 150136	% 150160	⊠ 154543
P 150115	" 150137	∞ 150161	∧ 154544
Q 150116	( 150138	* 150162	∨ 154545
R 150117	? 150139	← 151941	∩ 154546
S 150118	∅ 150140	→ 151942	@ 154547
T 150119	) 150141	↓ 151943	∥ 154548
U 150120	≠ 150142	↑ 151944	° 154549
V 150121	\$ 150144	↖ 151945	BLANK 150973
W 150122	: 150145	↗ 151946	

See note 26 on page 115

Early Design Parts

FIGURE 51. TYPE BOX AND PALLETS



GOTHIC STYLE PALLETS ① (12-TO-INCH SPACING)		The Pallets listed below are common to 12-to-inch Gothic Style Arrangements	
PALLET	NUMBER	PALLET	NUMBER
&	155467	A	155432
\$	155468	B	155433
%	155470	C	155434
1	155471	D	155435
2	155472	E	155436
3	155473	F	155437
4	155474	G	155438
5	155475	H	155439
6	155476	I	155440
7	155477	J	155441
8	155478	K	155442
9	155479	L	155443
0	155483	M	155444
∅		N	155445
∞		O	155446
∞		P	155447
∞		Q	155448
∞		R	155449
∞		S	155450
∞		T	155451
∞		U	155452
∞		V	155453
∞		W	155454
∞		X	155455
∞		Y	155456
∞		Z	155457
∞		∞	155458
∞		∞	155459
∞		∞	155460
∞		∞	155461
∞		∞	155462
∞		∞	155463
∞		∞	155464
∞		∞	155465
∞		∞	155466
∞		∞	155469
∞		∞	157636
∞		∞	157642

M = Murray Typepallet

LARGE GOTHIC STYLE PALLETS ②		The Pallets listed below are common to all large Gothic Style Arrangements	
PALLET	NUMBER	PALLET	NUMBER
∅	15774	R	157729
∞	15776	S	157730
∞	15777	T	157731
∞	15778	U	157732
∞	15779	V	157733
∞	15780	W	157734
∞	15781	X	157735
∞	15782	Y	157736
∞	15783	Z	157737
∞	15784	∞	157738
∞	15785	∞	157739
∞	15786	∞	157740
∞	15787	∞	157741
∞	15788	∞	157742
∞	15789	∞	157743
∞	15790	∞	157744
∞	15791	∞	157745
∞	15792	∞	157746
∞	15793	∞	157747
∞	15794	∞	157748
∞	15795	∞	157749
∞	15796	∞	157750
∞	15797	∞	157751
∞	15798	∞	157752
∞	15799	∞	157753
∞	15800	∞	157754
∞	15801	∞	157755
∞	15802	∞	157756
∞	15803	∞	157757
∞	15804	∞	157758
∞	15805	∞	157759
∞	15806	∞	157760
∞	15807	∞	157761
∞	15808	∞	157762
∞	15809	∞	157763
∞	15810	∞	157765
∞	15811	∞	157772
∞	15812	∞	157777
∞	15813	∞	157778
∞	15814	∞	157778

① Used with 154792 Modification Kit (see Figure 97)

② Used with 154755, 159395 or 163292 Modification Kit (see Figures 94, 95 and 96)

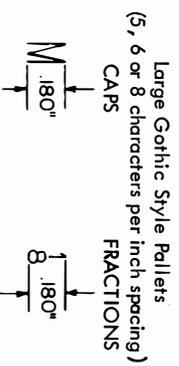
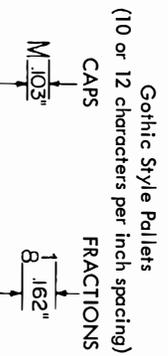
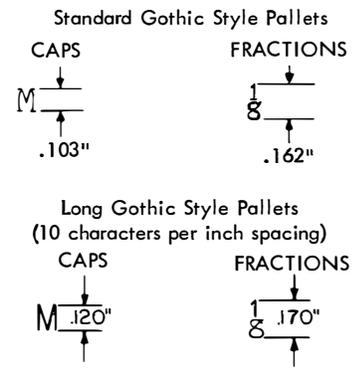


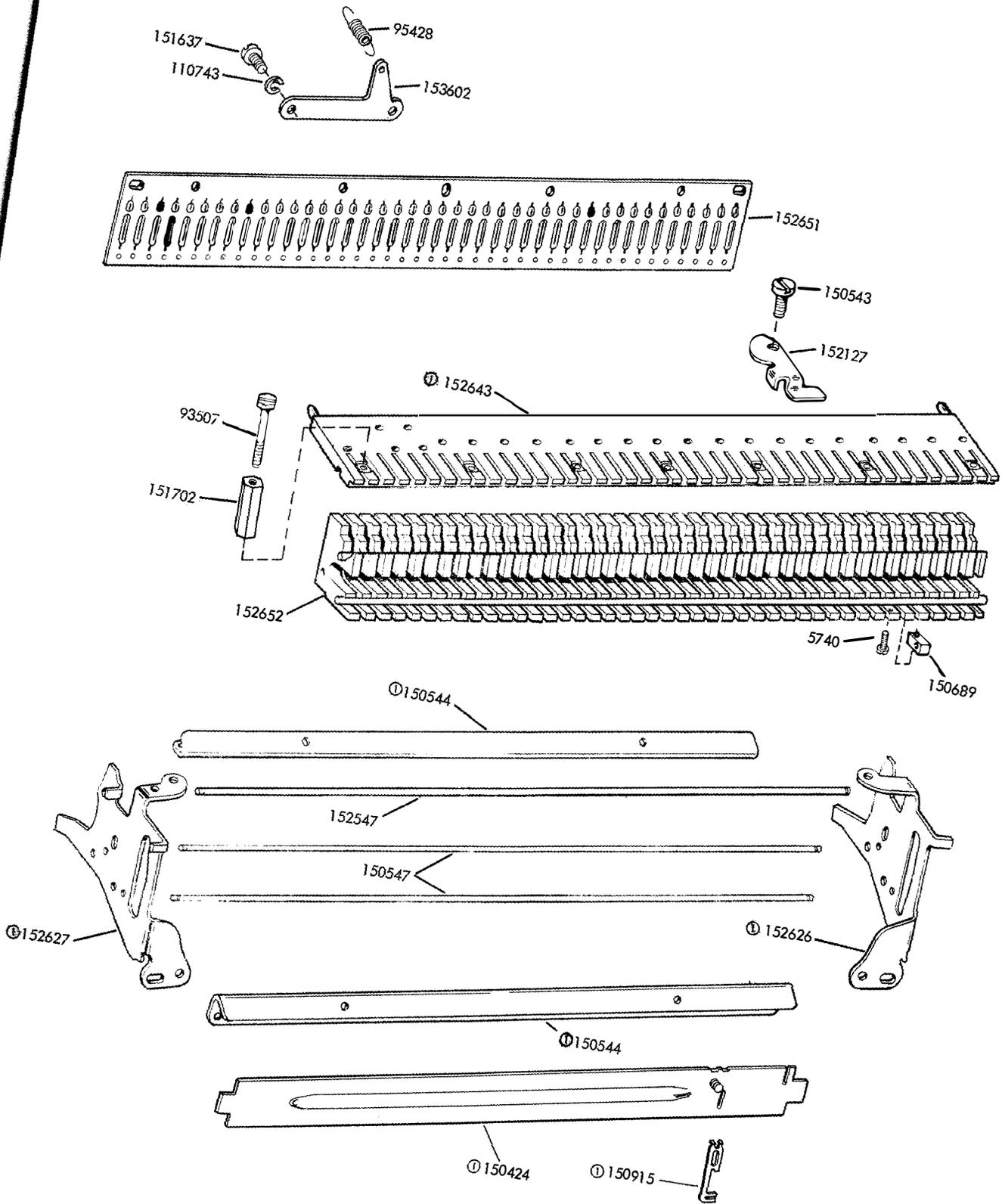
FIGURE 53. TYPEPALLET CHARTS

LONG GOTHIC STYLE PALLETS								The Pallets listed below are common to all long Gothic Style Arrangements		STANDARD GOTHIC STYLE PALLETS					The Pallets listed below are common to all standard Gothic Style Arrangements		
PALLET	NUMBER	155693 "WP"	155709 "XH"	162058 "YA"	194026 "AC"	194027 "AD"	194929 "AE"			195461 "AH"	PALLET	NUMBER	178852 "YU"	193803 "AB"			195009 "AF"
:	155654	X	X				X		A	155618		M	M	M	M	A	159752
(	155657	X	X				X		B	155619		M	M			B	159753
)	155658	X	X				X		C	155620						C	159754
	155660	X							D	155621		M		M	M	D	159755
o	155661	X							E	155622		M	M	M	M	E	159756
o	155662	X							F	155623		M				F	159757
→	155663	X							G	155624		M				G	159758
*	155664	X							H	155625		M	M		M	H	159759
∞	155665	X							I	155626		M	M	M	M	I	159760
\$	155667		X	X					J	155627		M	M	M	M	J	159761
?	155668		X				X		K	155628		M	M		M	K	159762
!	155669		X						L	155629		M	M	M		L	159763
;	155670		X						M	155630		M	M	M		M	159764
,	155671		X				X		N	155631		M	M	M		N	159765
.	155672		X	X	X	X	X	X	O	155632		M	M	M	M	O	159766
"	155673		X	X		X			P	155633		M			M	P	159767
7	155885			X					Q	155634		M		M	M	Q	159768
8	155886			X					R	155635		M			M	R	159769
1	155887			X					S	155636			M		M	S	159770
3	155888			X					T	155637				M	M	T	159771
1	155889			X					U	155638		M		M	M	U	159772
3	155890			X					V	155639			M			V	159773
1	155891			X					W	155640			M			W	159774
-	155655	X	X	X			X	X	X	155641						X	159775
Δ	155884				X				Y	155642			M			Y	159776
∅	155895							X	Z	155643				M		Z	159777
±	194018				X	X			1	155644						1	159778
+	194019				X		X	X	2	155645						2	159779
→	194020					X		M	3	155646						3	159780
=	194021						X		4	155647						4	159781
↖	194035			X	X			M	5	155648						5	159782
↑	194036			X	X			M	6	155649						6	159783
↓	194037			X				M	7	155650						7	159784
↙	194038				X			M	8	155651						8	159785
←	194039				X			M	9	155652						9	159786
⊙	195486							X	,	155653						▲	159787
⊙	195487							X	/	155656							
⊕	195488							X	#	155659							
↖ ↘ ○								M	&	155666							
☒ ☐ ☒ ☒								M									



M = Murray Typepallet

FIGURE 54. TYPEPALLET CHARTS



Ⓢ Early Design

FIGURE 55. STUNT BOX - MAJOR COMPONENTS

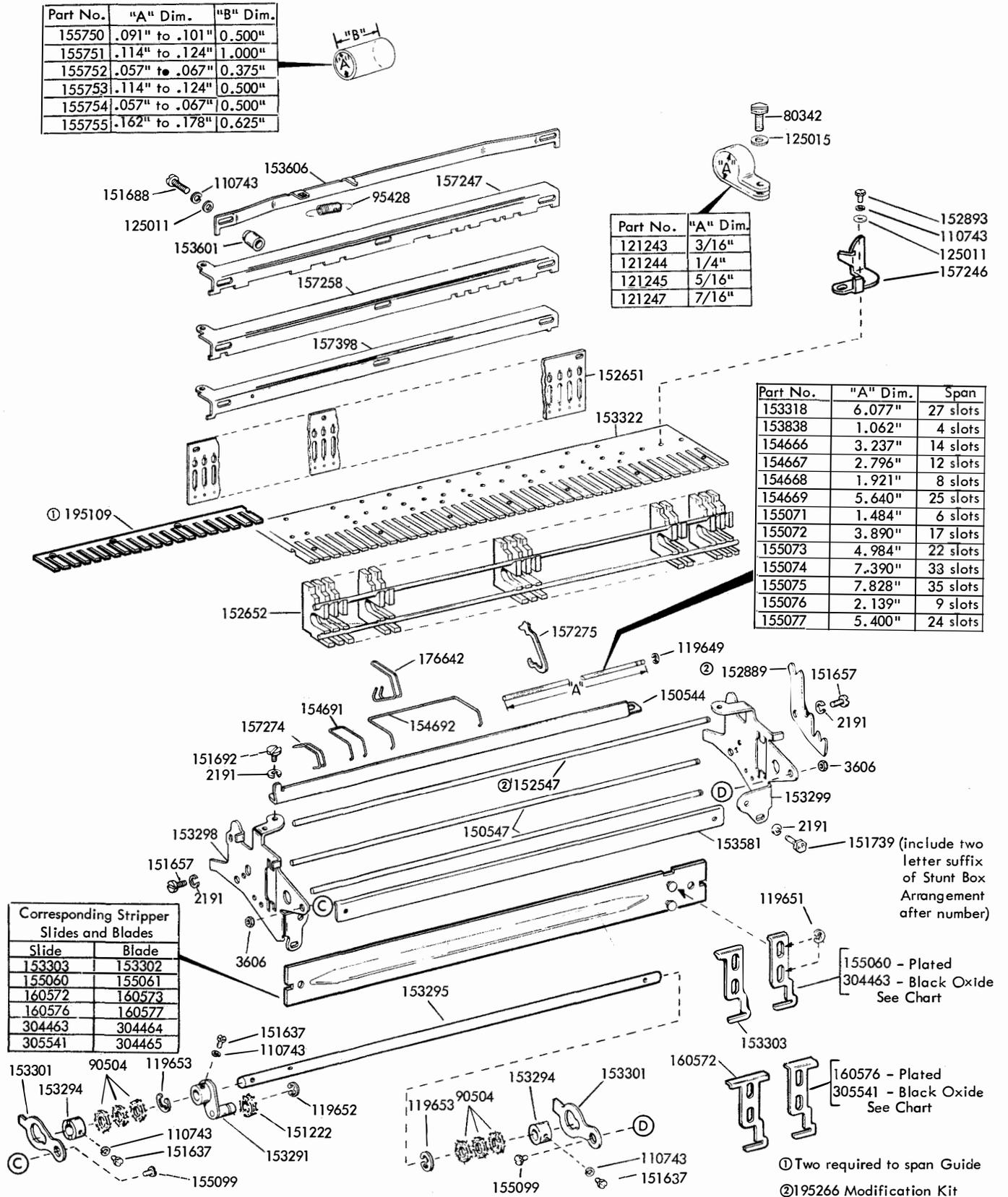
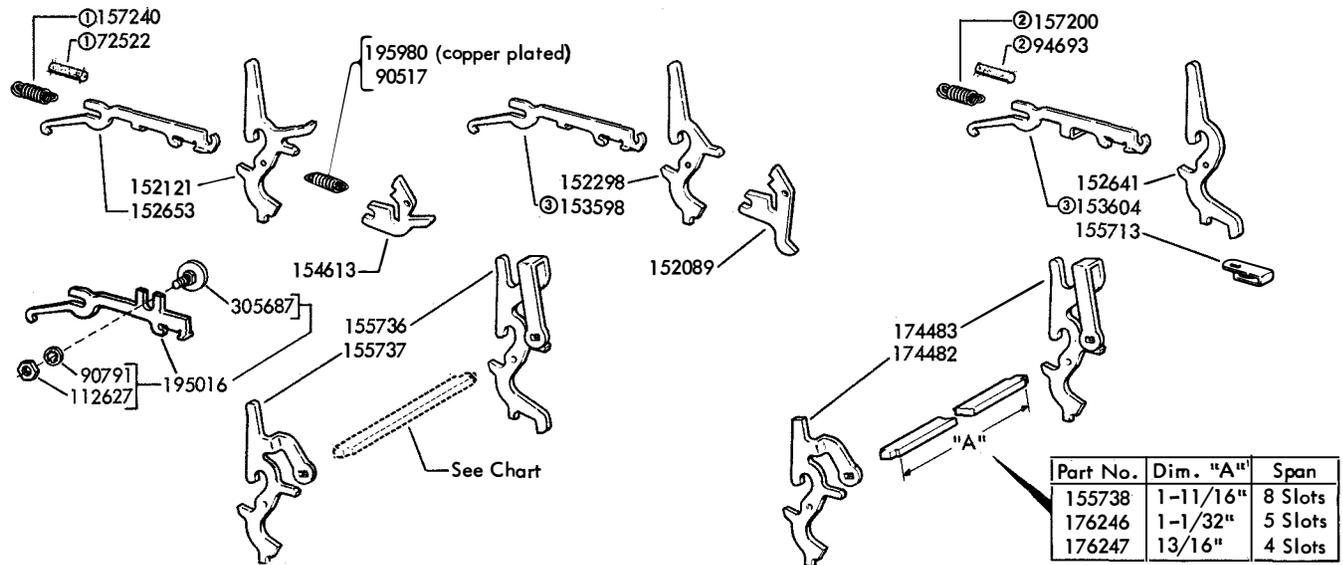


FIGURE 56. STUNT BCX - MAJOR COMPONENTS



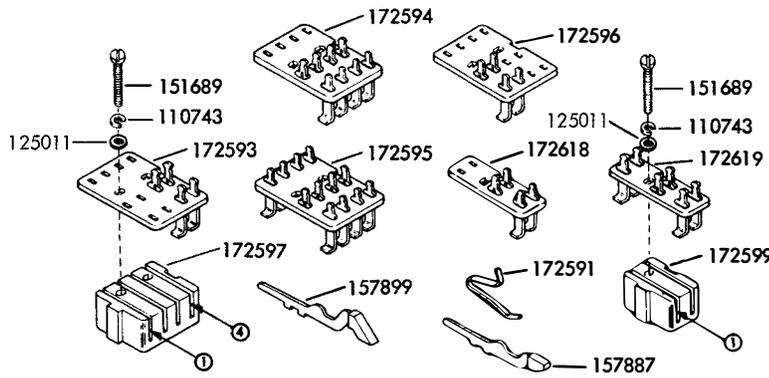


 152642	 152660				 145301	 161649		
 110743	 152357	 173141	 3599					

① Used on units equipped with One-Stop and Three-Stop Clutches  
 ② Used on units equipped with Two-Stop Clutches

③ Not used with Early Design 195109 Stop Plate. Early and Late Design Stop Plates may be identified by their widths. (Early Design width 15/32" - Late Design width 17/32")

FIGURE 58. FUNCTION LEVERS



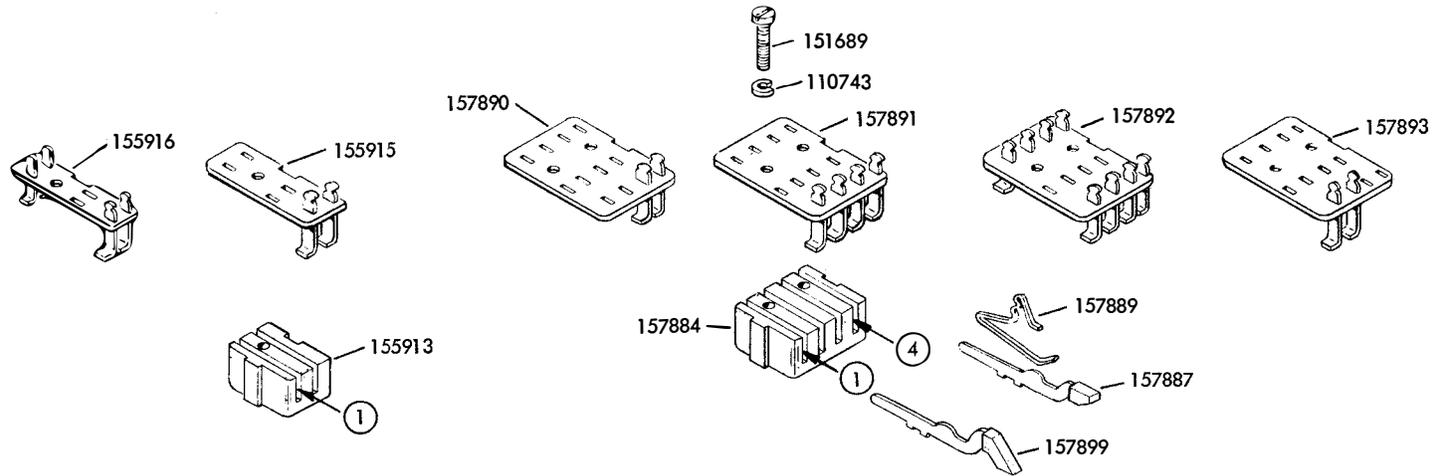
SWITCH ASSEMBLY NO.	CONTACT PLATE NO.	CONTACT ARM POSITION			
		1	2	3	4
172500	172593			157887	157887
172501	172593			157887	
172502	172593				157887
172503	172594	157887	157899	157899	157887
172504	172594	157887			
172505	172594	157899			157899
172506	172594		157887		
172507	172594	157899			
172508	172594	157887	157899		
172509	172594	157899		157899	
172510	172594	157899		157899	157887
172511	172594	157899	157899	157899	157899
172512	172594	157887	157887	157899	
172513	172593			157899	
172514	172594	157887	157887	157887	157887
172515	172594	157887	157887	157887	
172516	172594		157887		157887
172517	172594	157899	157887	157899	157887
172518	172594		157887	157899	157887
172519	172594	157899		157887	
172520	172594	157899		157887	157899
172521	172593			157899	
172522	172594	157887	157899		157887
172523	172594	157899	157887	157887	157899
172524	172594	157887			157887
172525	172595	157887	157887	157887	157887
172526	172596		157887		
172527	172595			157887	
172528	172595	157887		157887	
172529	172595			157887	157887
172530	172595	157887	157887	157887	
172531	172595	157887		157887	157887
172532	172595	157887			
172533	172595	157887	157887		
172534	172594		157899	157887	
172535	172594			157899	157887
172536	172594	157899	157887	157899	
172538	172595		157887	157887	157887
172539	172595		157887		157887
172540	172594		157899	157887	157887
172541	172594	157899	157887	157887	157887
172542	172594	157887	157899	157887	157887
172543	172594	157899		157887	
172544	172595		157899		157887
172545	172595	157899		157899	
172546	172595	157899		157887	
172547	172595	157887	157899	157887	
172548	172596		157899		
172549	172595				157887
172550	172595	157899			157899
172551	172594		157887	157887	157887
172552	172594	157899		157887	157887
172553	172595		157887	157899	
172554	172594		157899		157899
172555	172595	157899	157887	157899	157899
172556	172595	157887	157887		157887
172557	172594	157887		157887	157887
172558	172595	157899			
172559	172594	157899	157887		
172560	172595	157899	157899	157887	157887
172561	172594		157887	157899	

SWITCH ASSEMBLY NO.	CONTACT PLATE NO.	CONTACT ARM POSITION			
		1	2	3	4
172562	172594			157899	
172563	172594	157887	157899	157887	157899
172564	172594	157899	157887		157899
172565	172595	157899	157887		
172566	172595		157899		
172567	172595		157887		157899
172568	172595	157887			157887
172569	172595		157887	157887	
172570	172595		157887		
172571	172594	157887	157887		157887
172572	172593			157899	157899
172573	172595	157899	157899	157899	157887
172574	172595	157899		157899	157887
172575	172595	157899	157899		
172576	172595	157899	157899	157899	157899
172577	172595	157899		157899	157899
172578	172595		157899	157899	
172579	172595		157899	157887	
172580	172595	157899		157899	157899
172581	172595		157899		157899
172582	172595	157887	157899	157899	
172583	172595			157887	157899
172584	172595		157899	157899	157899
172585	172595	157887	157887		157899
172586	172595			157899	157899
172587	172595			157899	
172588	172595	157887		157899	
172589	172595				157899
172590	172595	⓪	⓪	⓪	⓪
172600	172618	157887			
172601	172618		157887		
172602	172618	157887	157887		
172603	172619	157887			
172604	172619		157887		
172605	172619	157887	157887		
172606	172618	157899	157899		
172607	172618	157899	157899		
172608	172619	157899			

⓪172591 Contact Arm Spring included in slot  
For Early Design, see Figure 60

FIGURE 59. SWITCH ASSEMBLIES AND COMPONENTS

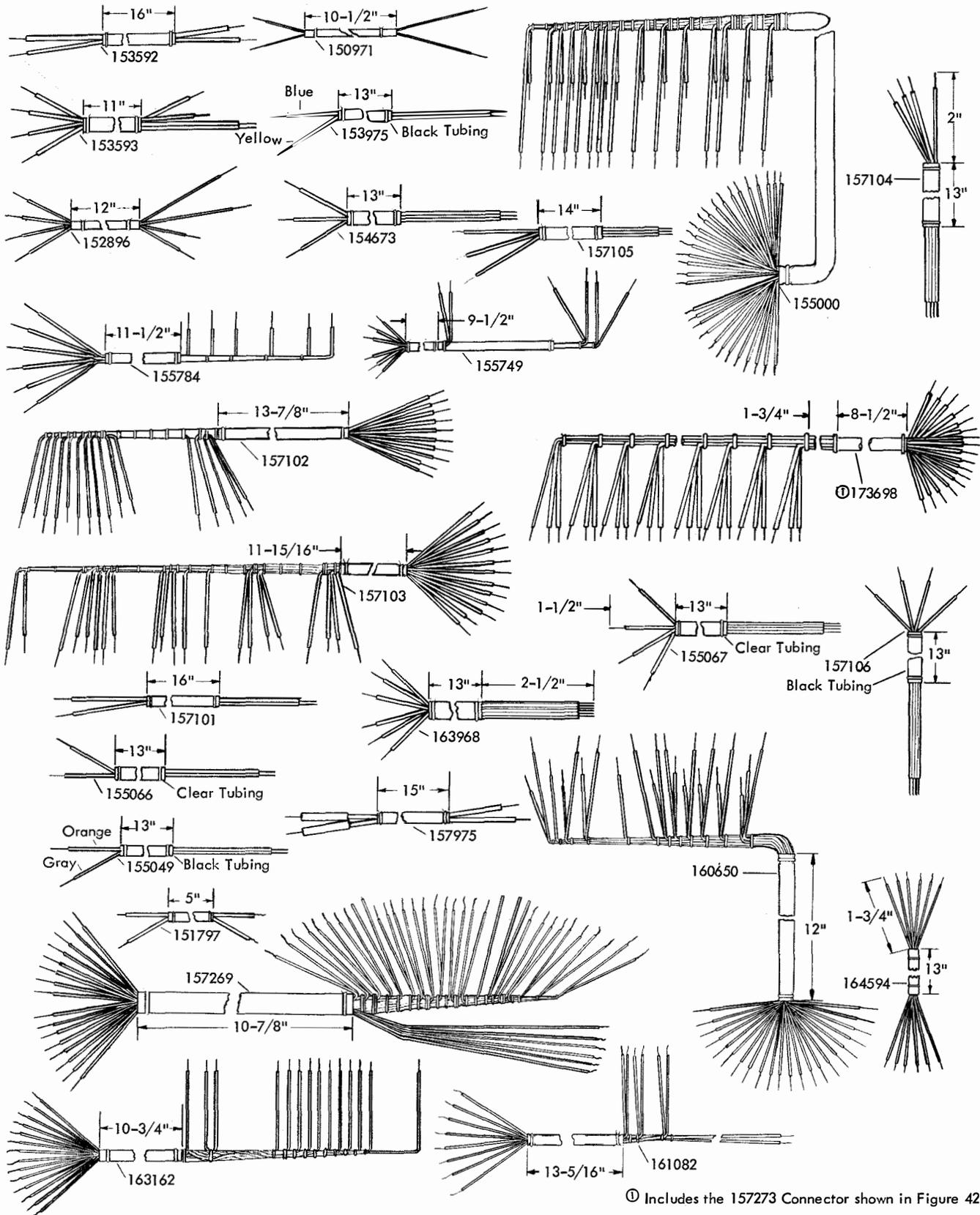
FIGURE 60. SWITCH ASSEMBLIES AND COMPONENTS



SWITCH ASSEMBLY NO.	CONTACT PLATE NO.	CONTACT ARM POSITION			SWITCH ASSEMBLY NO.	CONTACT PLATE NO.	CONTACT ARM POSITION				SWITCH ASSEMBLY NO.	CONTACT PLATE NO.	CONTACT ARM POSITION				
		1	2				1	2	3	4			1	2	3	4	
155917	155915	157887			157070	157890			157887	157887		160192	157892	157887		157887	157887
155918	155915		157887		157071	157890			157887			160193	157892	157887			
155919	155915	157887	157887		157072	157890				157887		160194	157892	157887	157887		
155920	155916	157887			157073	157891	157887	157899	157899	157887		160195	157891		157899	157887	
155921	155916		157887		157074	157891	157887					160196	157891			157899	157887
155922	155916	157887	157887		157075	157891	157899			157899		160197	157891	157899	157887	157899	
155923	155915	157899			157076	157891		157887				160198	157891		157899	157887	157887
155924	155915	157899	157899		157077	157891	157899					160199	157892		157887	157887	157887
155925	155915	157899			157078	157891	157887	157899				160200	157892		157887		157887
					157079	157891	157899		157899			160201	157891	157899	157899	157887	157887
					157080	157891	157899		157899	157887		160202	157891	157899	157887	157887	157887
					157081	157891	157899	157899	157899	157899		160203	157891	157887	157899	157887	157887
					157082	157891	157887	157887	157899			160204	157891	157899	157887		
					157083	157890			157899			160205	157892		157899		157887
					157084	157891	157887	157887	157887	157887		160206	157892	157899		157899	
					157085	157891	157887	157887	157887			160207	157892	157899		157887	
					157086	157891				157887		160208	157892	157887	157899	157887	
					157087	157891	157899	157887	157899	157887		160209	157893		157899		
					157088	157891		157887	157899	157887		160210	157892				157887
					157089	157891	157899			157887		160211	157892	157899			157899
					157090	157891	157899		157887	157899		160212	157891		157887	157887	157887
					157091	157890				157899		160213	157891	157899		157887	157887
					157092	157891	157887	157899		157887		160214	157892		157887	157899	
					157093	157891	157899	157887	157887	157899		160215	157891		157899		157899
					157094	157891	157887			157887		160216	157892	157899	157887	157899	157899
					157095	157892	157887	157887	157887	157887		160217	157892	157887	157887	157887	157887
					157096	157893		157887				160218	157891	157887		157887	157887
					157097	157892			157887			160219	157892	157899	157899	157887	157887
					157098	157892	157887			157887		160220	157891	157899	157887		
					157099	157892			157887	157887							
					157100	157892	157887	157887	157887								

Early Design Parts

See note 27 on page 116



ⓐ Includes the 157273 Connector shown in Figure 42

FIGURE 61. CABLE ASSEMBLIES



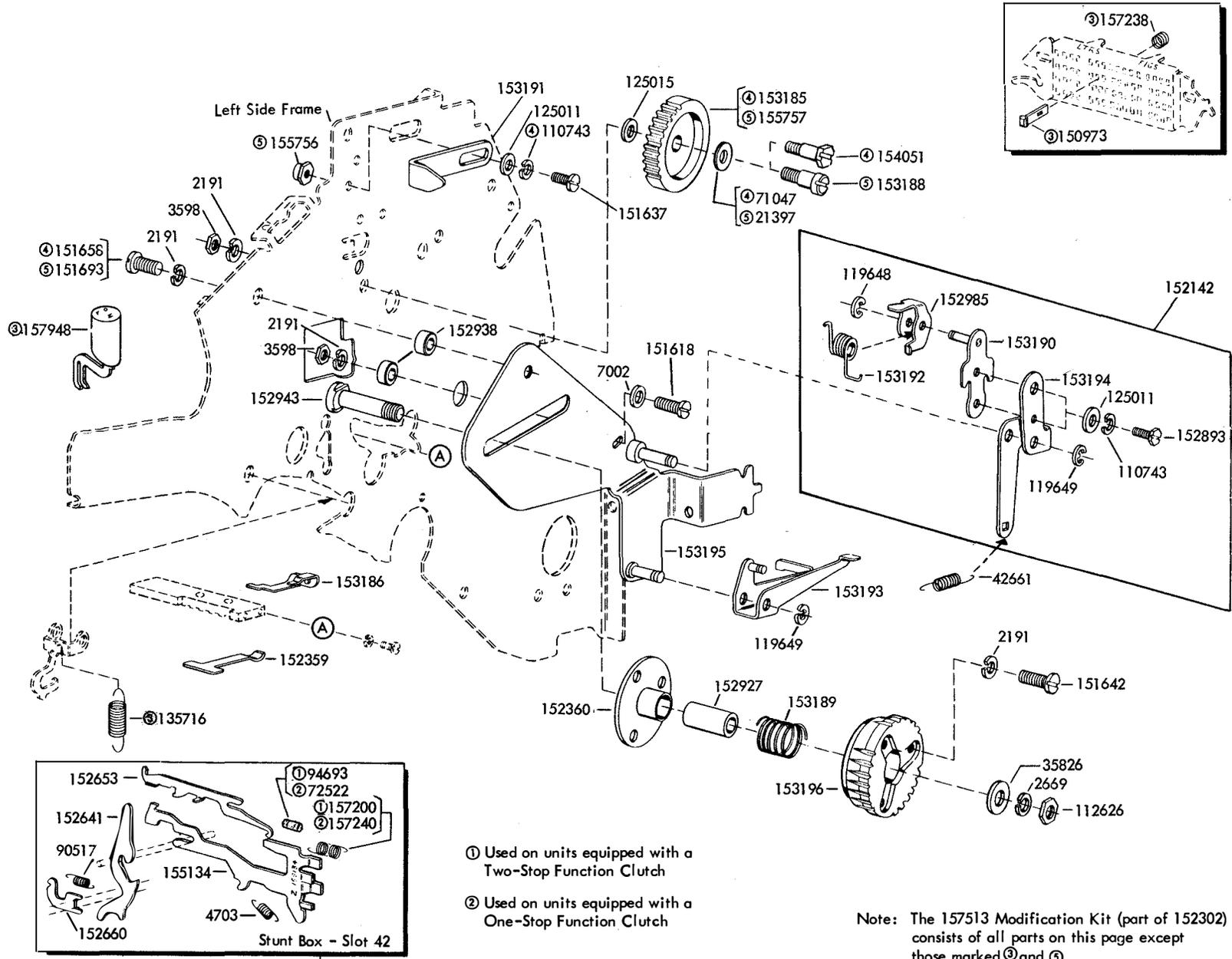
FIGURE 63. FUNCTION BAR CONDITION CHART

CONDITION OF TYPING UNIT FOR FUNCTION BAR SELECTION		NO RESTRICTION	UPPER CASE	LOWER CASE	SELECT	NON-SELECT	PRINT	NON-PRINT	CONDITION OF TYPING UNIT FOR FUNCTION BAR SELECTION
CHARACTER OR FUNCTION 153440 UNCODED FUNCTION BAR IS AVAILABLE FOR USE ON ANY CHARACTER OR FUNCTION BY REMOVING TINES	A	152676			155100	153409	155191		A
	B	152677	153526		155101	153410	155192		B
	C	152678	153520		155102	153411	155193		C
	D	152679	153521		155103	153412	155194		D
	E	152680	153166		155104	153413	155195		E
	F	152681	153160	155326	155105	153414	155196	155286	F
	G	152682	153162	155327	155106	153415	155197	155287	G
	H	152683	152673	155328	155107	153416	155198	155288	H
	I	152684	155249	155329	155108	153417	155199	155289	I
	J	152685	152694	155330	155109	153418	155200	155290	J
	K	152686	153529		155110	153419	155201		K
	L	152687	153522		155111	153420	155202		L
	M	152688	152674		155112	153421	155203		M
	N	152689	153523		155113	153422	155204	155294	N
	O	152690	153528		155114	153423	155205		O
	P	152691	155250	155336	155115	153424	155206	155296	P
	Q	152692	153165	155337	155116	153425	155207	155297	Q
	R	152695	153167	155338	155117	153426	155208	155298	R
	S	152696	152672	155339	155118	153427	155209	155299	S
	T	152697	153524	153169	155119	153428	155210	155300	T
	U	152698	155248	155340	155120	153429	155211		U
	V	152699	153164		155121	153430	155212		V
	W	152700	153163		155122	153431	155213		W
	X	152701	153525		155123	153432	155214		X
	Y	152702	153527		155124	153433	155215		Y
	Z	152703	153161		155125	153434	155216	155306	Z
BLANK LETTERS	152669	152693	152675	155312		155217	155307	BLANK LETTERS	
FIGURES	152666			155313		153438		FIGURES	
SPACE	155129			155314	152670			SPACE	
CARRIAGE-RETURN	152667			155128	199519	155127		CARRIAGE-RETURN	
LINE FEED	152668			155315		153435	155130	LINE FEED	
ANY CHARACTER OR FUNCTION	152704	153168		155311	152671			ANY CHARACTER OR FUNCTION	
M & N				155132				M & N	
M & V	199518			155218				M & V	
PULSE #1						162636		PULSE #1	
" #2						162637		" 2	
" #3						162638		" 3	
" #4						162639		" 4	
" #5						162640		" 5	
UNIV.						155159	155219	UNIV.	
POSITION OF FUNCTION BAR TINES	SUPPRESSION LEVEL ZERO LEVEL SHIFT LEVEL		MARKING	SPACING	MARK-ING	SPACING	SPAC-ING	MARKING	SUPPRESSION LEVEL ZERO LEVEL SHIFT LEVEL

FIGURE 64. FUNCTION BAR CONDITION CHART

CONDITION OF TYPING UNIT FOR FUNCTION BAR SELECTION		PRINT NON-SELECT	PRINT UPPER CASE	PRINT SELECT	SELECT LOWER CASE	PRINT LOWER CASE	SELECT UPPER CASE	NON-SELECT LOWER CASE	CONDITION OF TYPING UNIT FOR FUNCTION BAR SELECTION
	A								A
	B								B
	C								C
	D								D
	E								E
	F		155141						F
	G		155135						G
	H		155142		155133				H
	I		155143						I
	J		155131						J
	K		155144						K
	L		155145						L
	M								M
	N								N
	O								O
	P					155176		155366	P
	Q					155177		155367	Q
	R					155178		155368	R
	S		153437			155179		155369	S
	T					155180		155370	T
	U								U
	V								V
	W								W
	X								X
	Y								Y
	Z		155134				155246	155247	Z
	BLANK								BLANK
	LETTERS								LETTERS
	FIGURES								FIGURES
	SPACE								SPACE
	CARRIAGE-RETURN								CARRIAGE-RETURN
	LINE FEED								LINE FEED
	ANY CHARACTER OR FUNCTION	153436		155126					ANY CHARACTER OR FUNCTION
	M & N								M & N
	M & V								M & V
	PULSE #1								PULSE #1
	" 2								" 2
	" 3								" 3
	" 4								" 4
	" 5								" 5
	UNIV.								UNIV.
POSITION OF FUNCTION BAR TINES	SUPPRESSION LEVEL ZERO LEVEL SHIFT LEVEL	SPACING SPACING	SPACING MARKING	SPACING MARKING	MARKING SPACING	SPACING SPACING	MARKING MARKING	SPACING SPACING	SUPPRESSION LEVEL ZERO LEVEL SHIFT LEVEL

FIGURE 65. 152302 (SPROCKET FEED) AND 155763 (FRICTION FEED) MODIFICATION KITS TO PROVIDE PAGE FEED-OUT ON UPPER CASE "Z"



- ① Used on units equipped with a Two-Stop Function Clutch
- ② Used on units equipped with a One-Stop Function Clutch

Specification 5751S

Note: The 157513 Modification Kit (part of 152302) consists of all parts on this page except those marked ③ and ④

Note: The 162847 Modification Kit (part of 155763) consists of all parts on this page except those marked ③ and ④

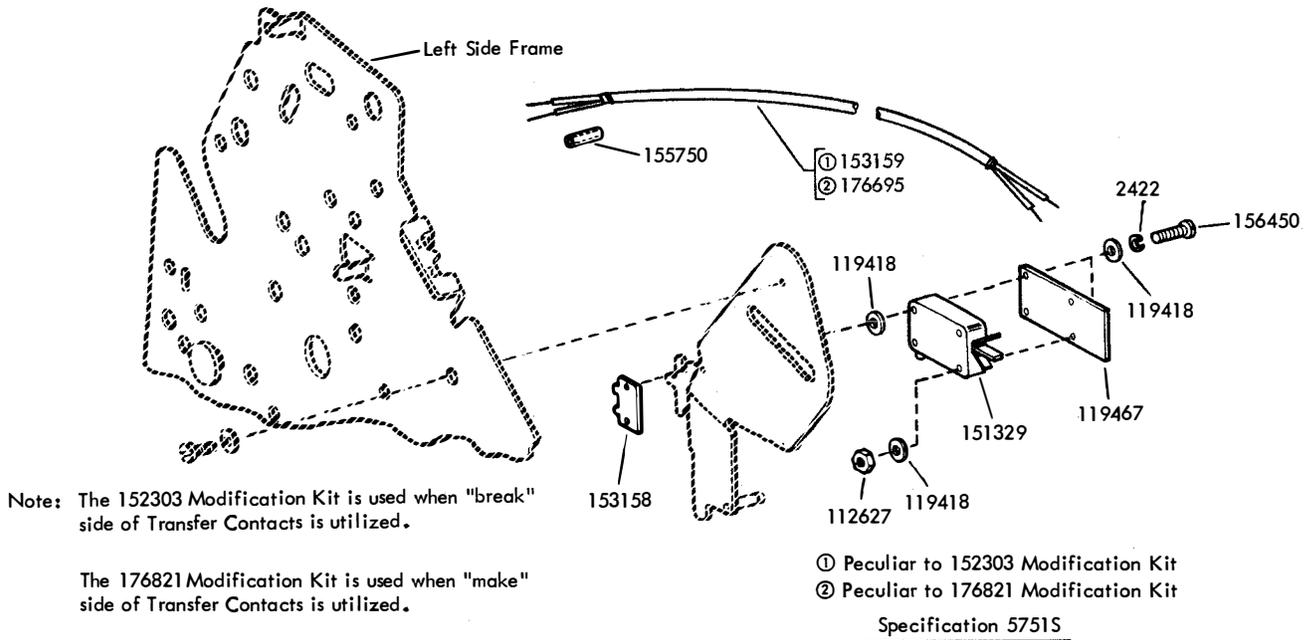


FIGURE 66. 152303 AND 176821 MODIFICATION KITS TO PROVIDE PAGE FEED-CUT TRANSMITTER CONTROL

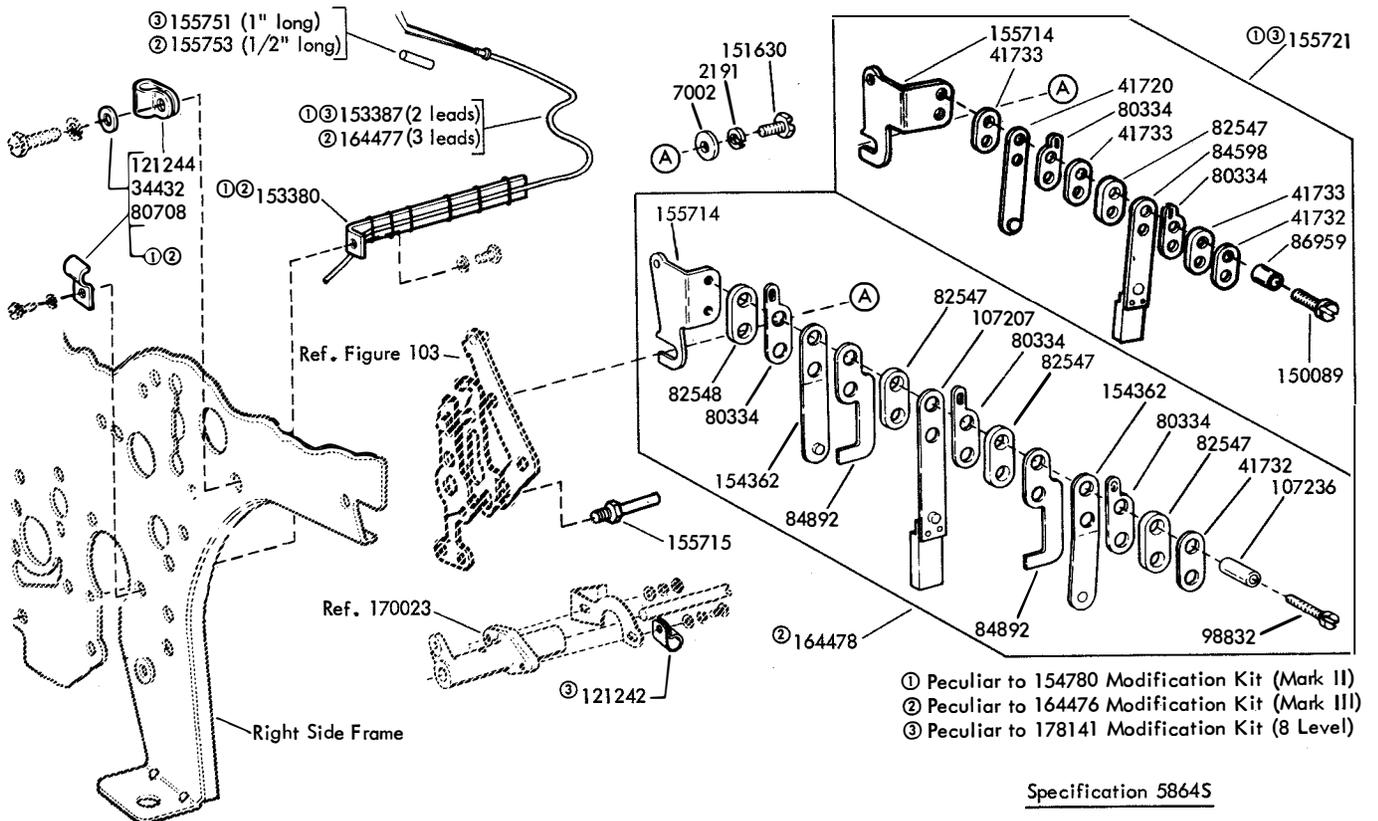
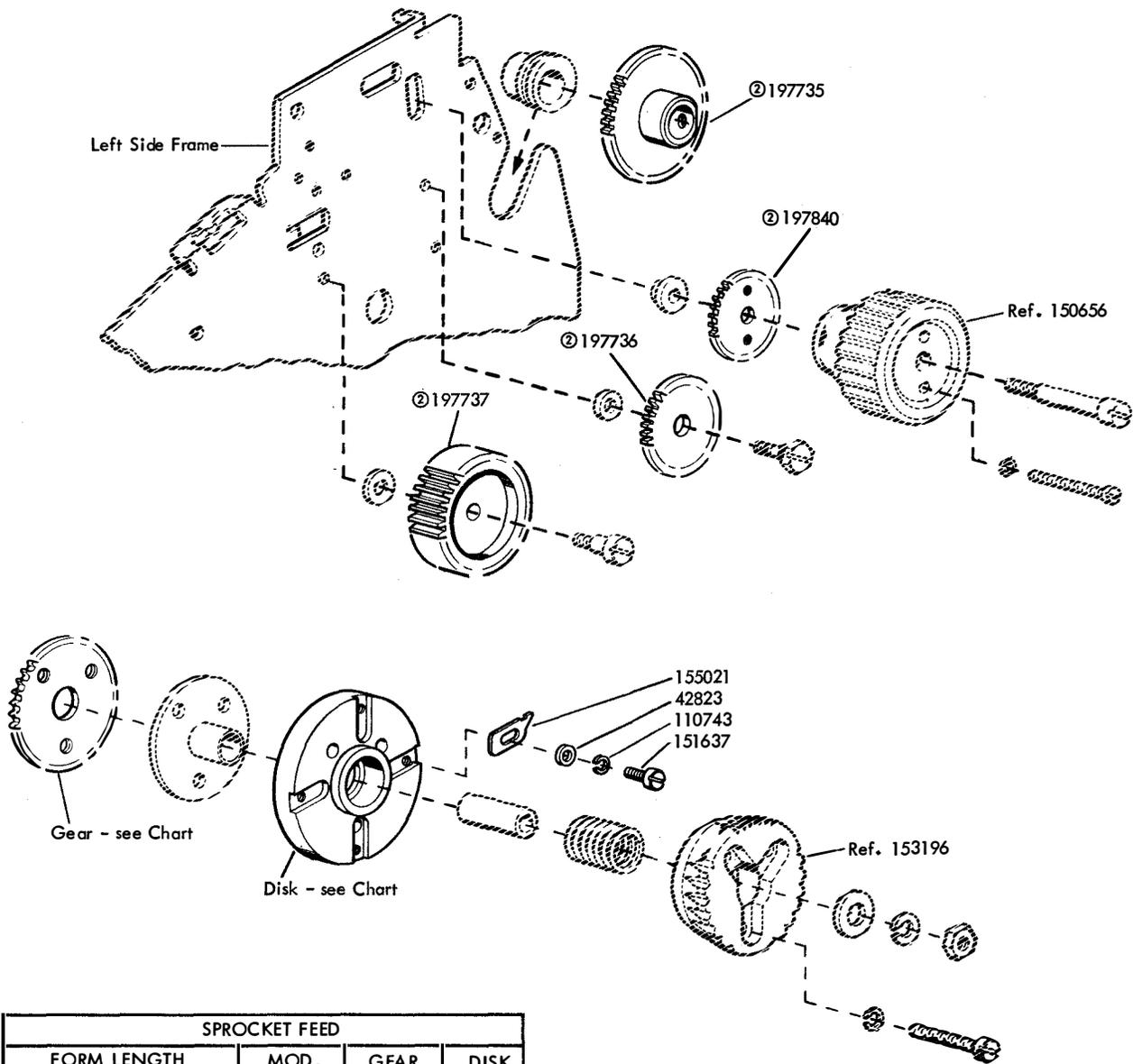


FIGURE 67. 154780, 164476 AND 178141 MODIFICATION KITS TO PROVIDE HORIZONTAL TABULATOR XD CONTROL



SPROCKET FEED			
FORM LENGTH IN INCHES	MOD. KIT	GEAR NO.	DISK NO.
7-1/2, 15	153927	153207	153217
3-1/2, 7, 14	153928	153206	153216
6-1/2, 13	153929	153205	153215
3, 6, 12	153930	153204	153214
5-1/2, 11	153931	153203	153213
5, 10	153932	153202	153212
9-1/2	153933	153201	153211
4-1/2, 9	153934	153200	153210
8-1/2	153935	153199	153209
2, 4, 8	153936	153198	153208
3-2/3, 7-1/3, 14-2/3	161140	161250	161260
3-1/4, 6-1/2, 13	①197847	197732	197730
4-1/4	①197848	197731	197729

FRICTION FEED			
FORM LENGTH IN INCHES	MOD. KIT	GEAR NO.	DISK NO.
5-1/2, 11	155765	155758	153213
2, 4, 8	161767	155759	153208

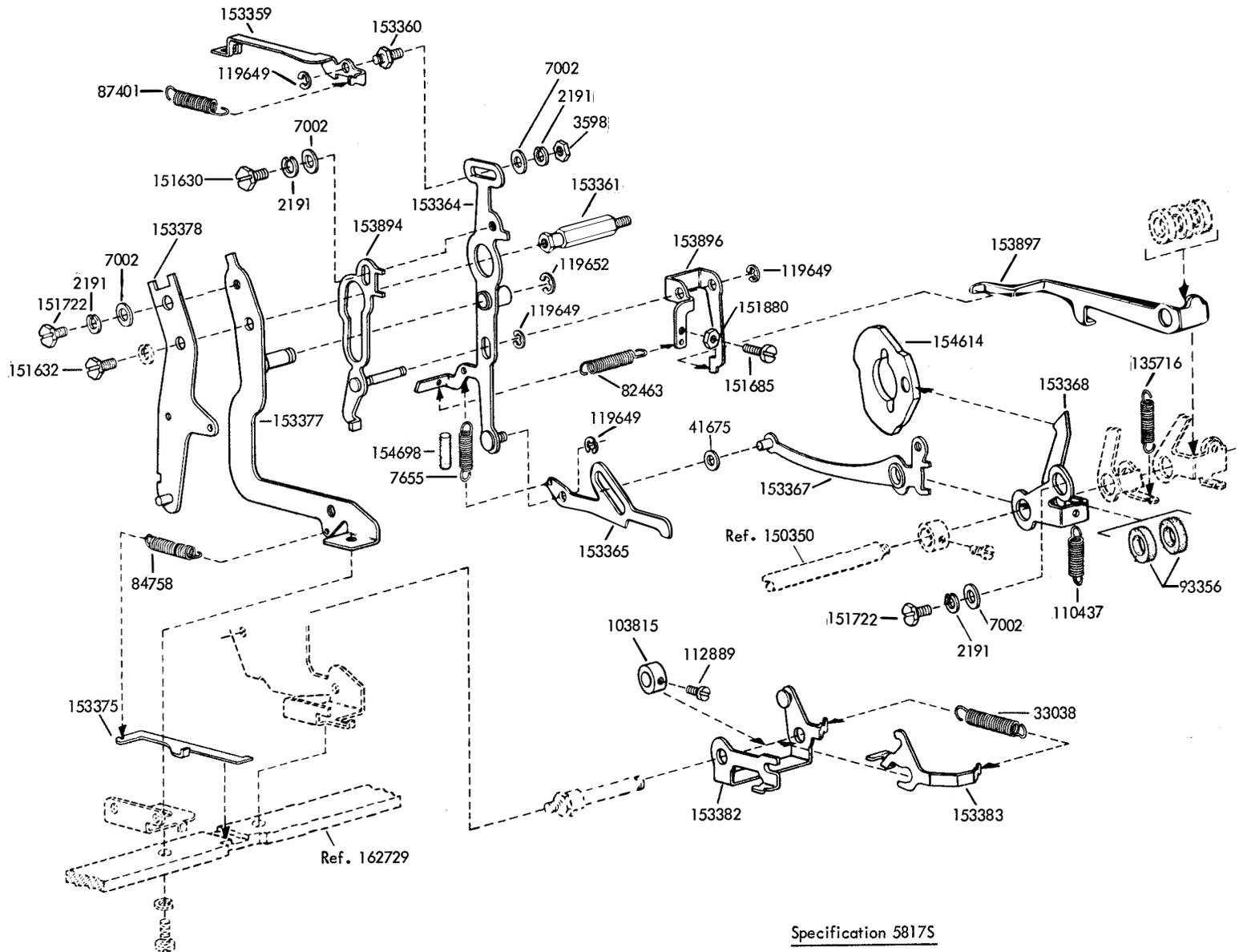
① The 197847 and 197848 Modification Kits can only be used with the 154742 Modification Kit (4 lines per inch)

② Part of 197847 and 197848 Modification Kits only

Specification 57515

FIGURE 63. PAGE FEED-OUT FORM LENGTH GEAR AND DISK MODIFICATION KITS

FIGURE 69. 152304 MODIFICATION KIT TO PROVIDE HORIZONTAL TABULATION  
(CONTINUED ON NEXT PAGE)



Specification 58175

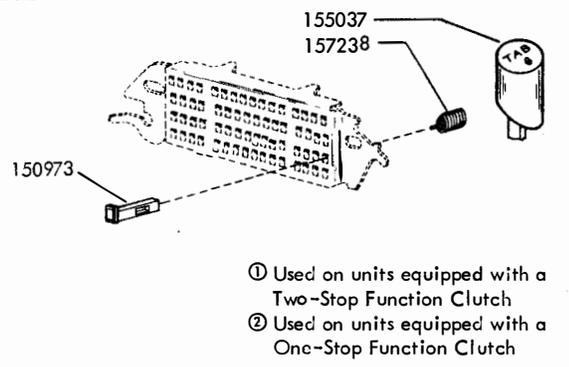
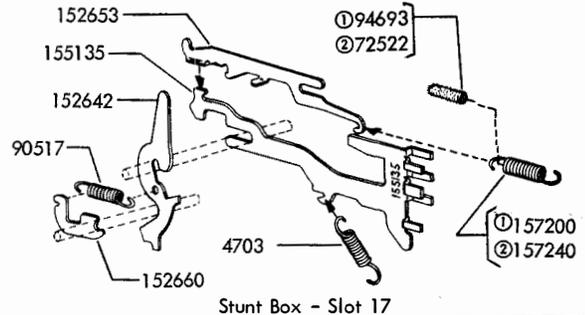
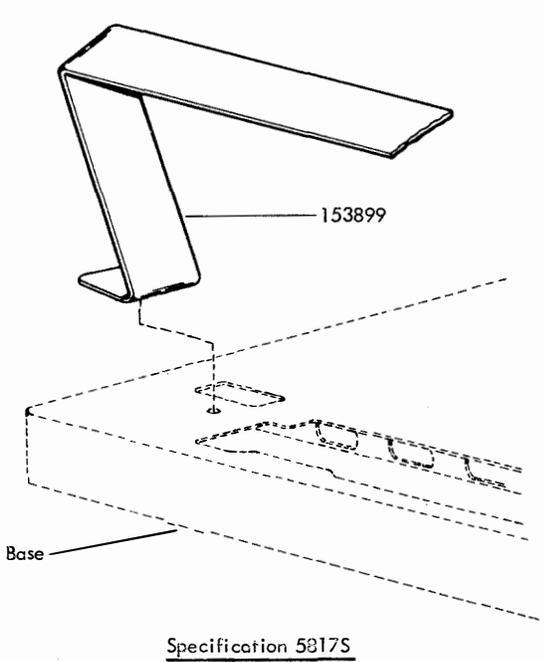
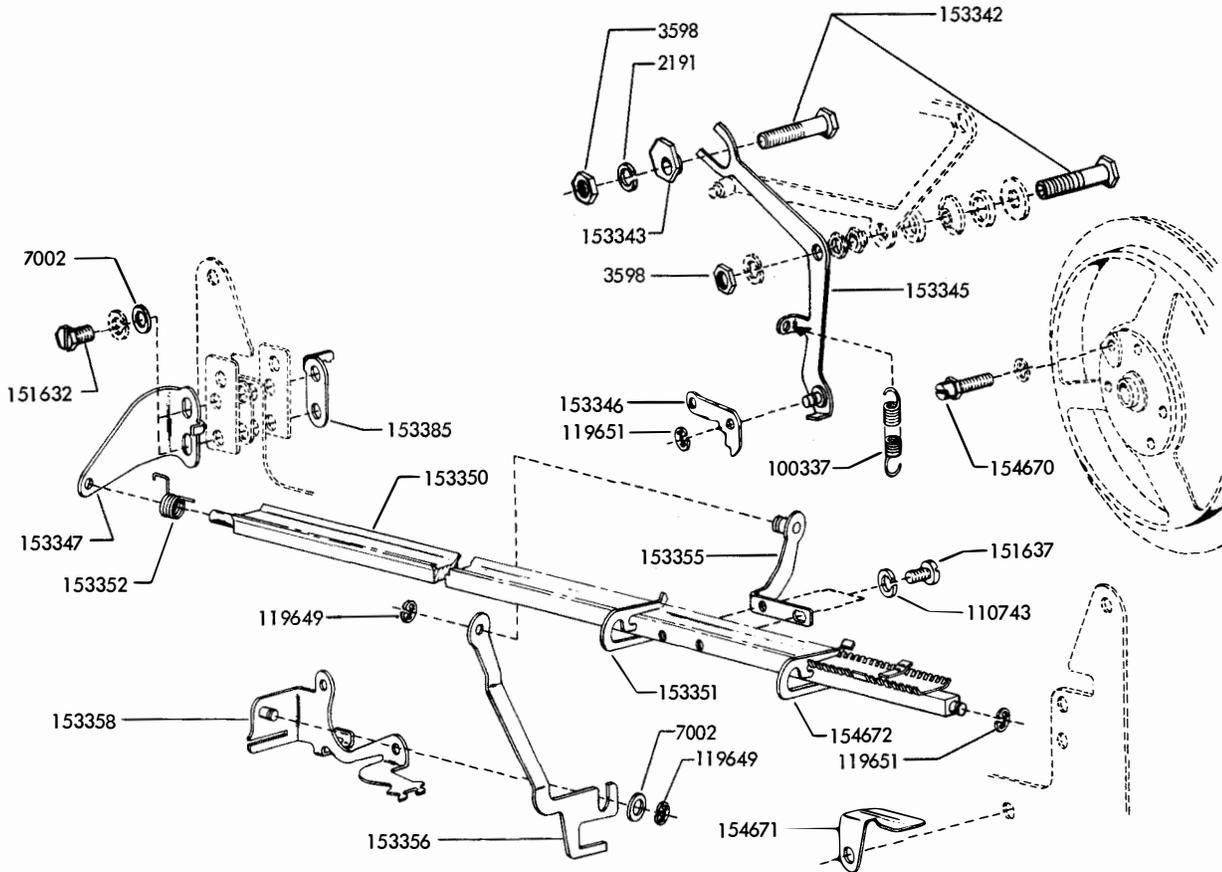
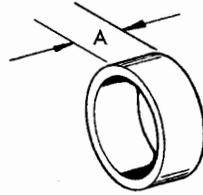
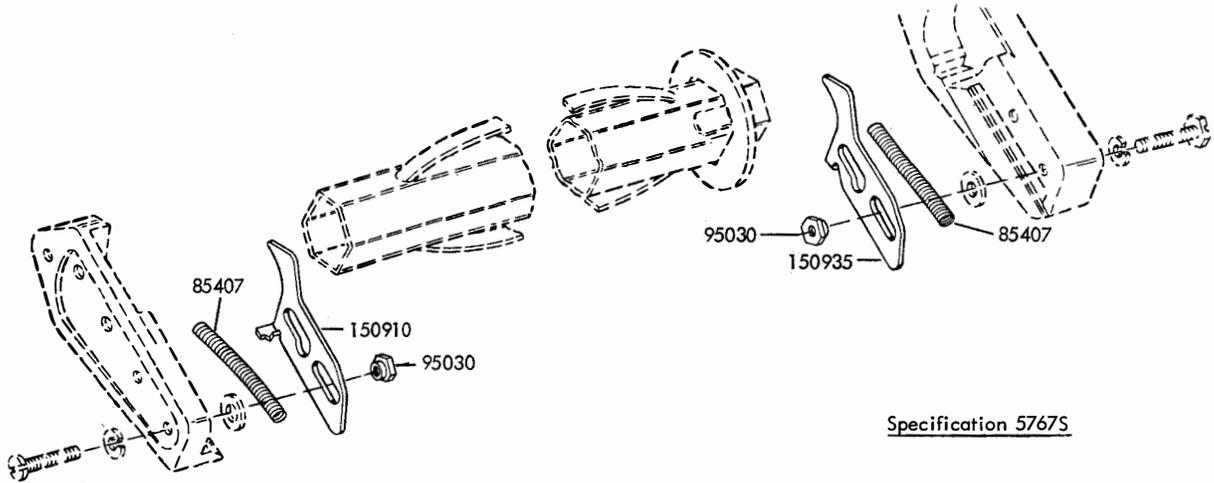


FIGURE 70. 152304 MODIFICATION KIT TO PROVIDE HORIZONTAL TABULATION (CONTINUED FROM PRECEDING PAGE)



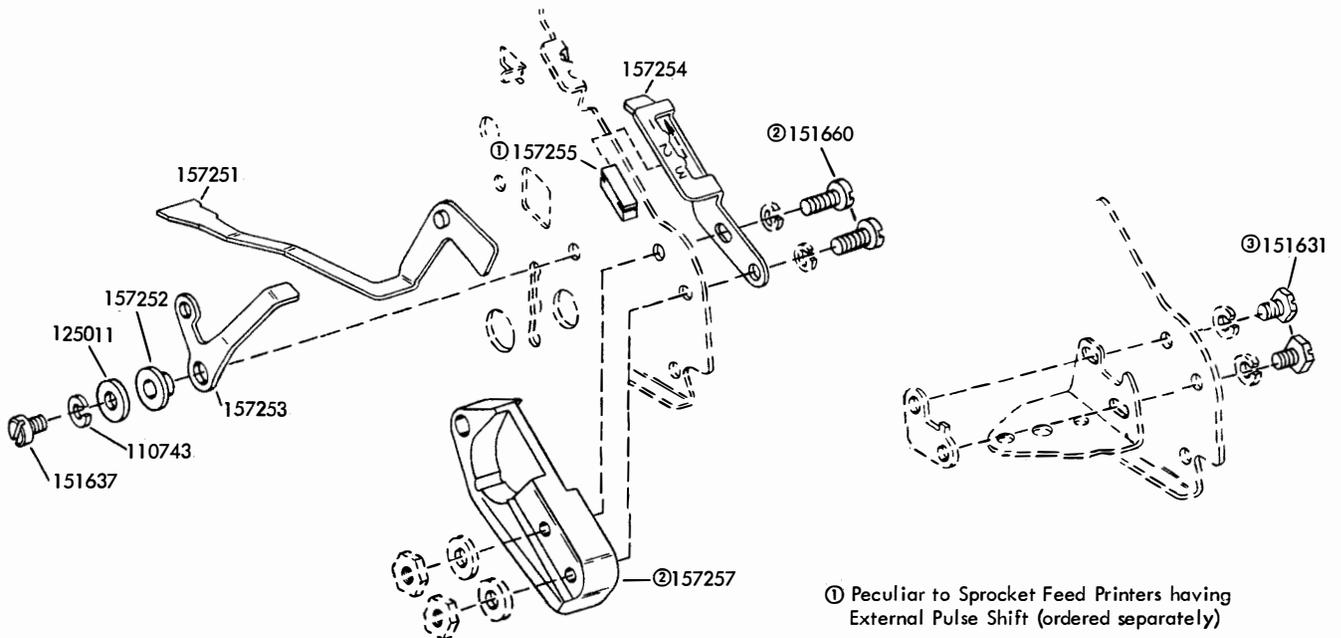
Part No.	Dim. "A"
155581	.250
155582	.500
155583	1.000
155584	2.000

FIGURE 71. 159362 MODIFICATION KIT TO PROVIDE SPACERS FOR CENTERING NARROW PAPER ROLL ON SPINDLE



Specification 5767S

FIGURE 72. 151799 MODIFICATION KIT TO PROVIDE LATCHES FOR PAPER SPINDLE



- ① Peculiar to Sprocket Feed Printers having External Pulse Shift (ordered separately)
- ② Peculiar to 154743 - Friction Feed
- ③ Peculiar to 152315 - Sprocket Feed

Specification 5800S

FIGURE 73. 152315 AND 154743 MODIFICATION KITS TO PROVIDE MANUAL SELECTION OF STUNT BOX OPERATION

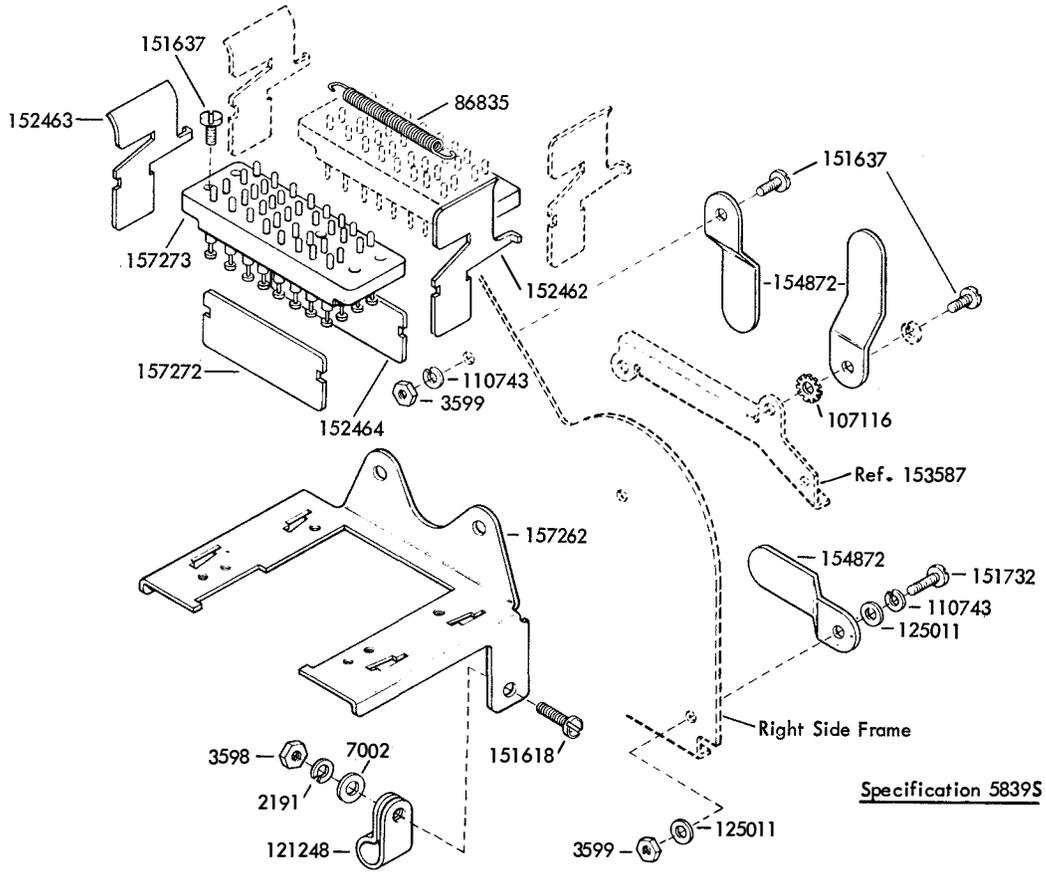


FIGURE 74. 154727 MODIFICATION KIT TO PROVIDE AUXILIARY CONNECTOR

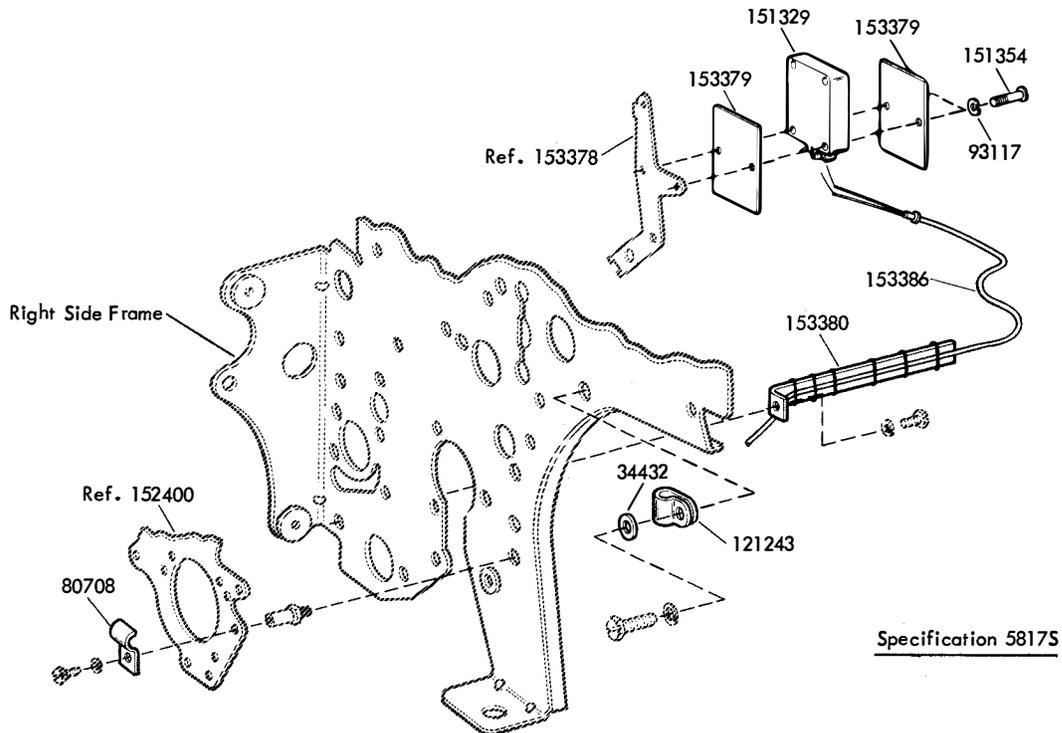
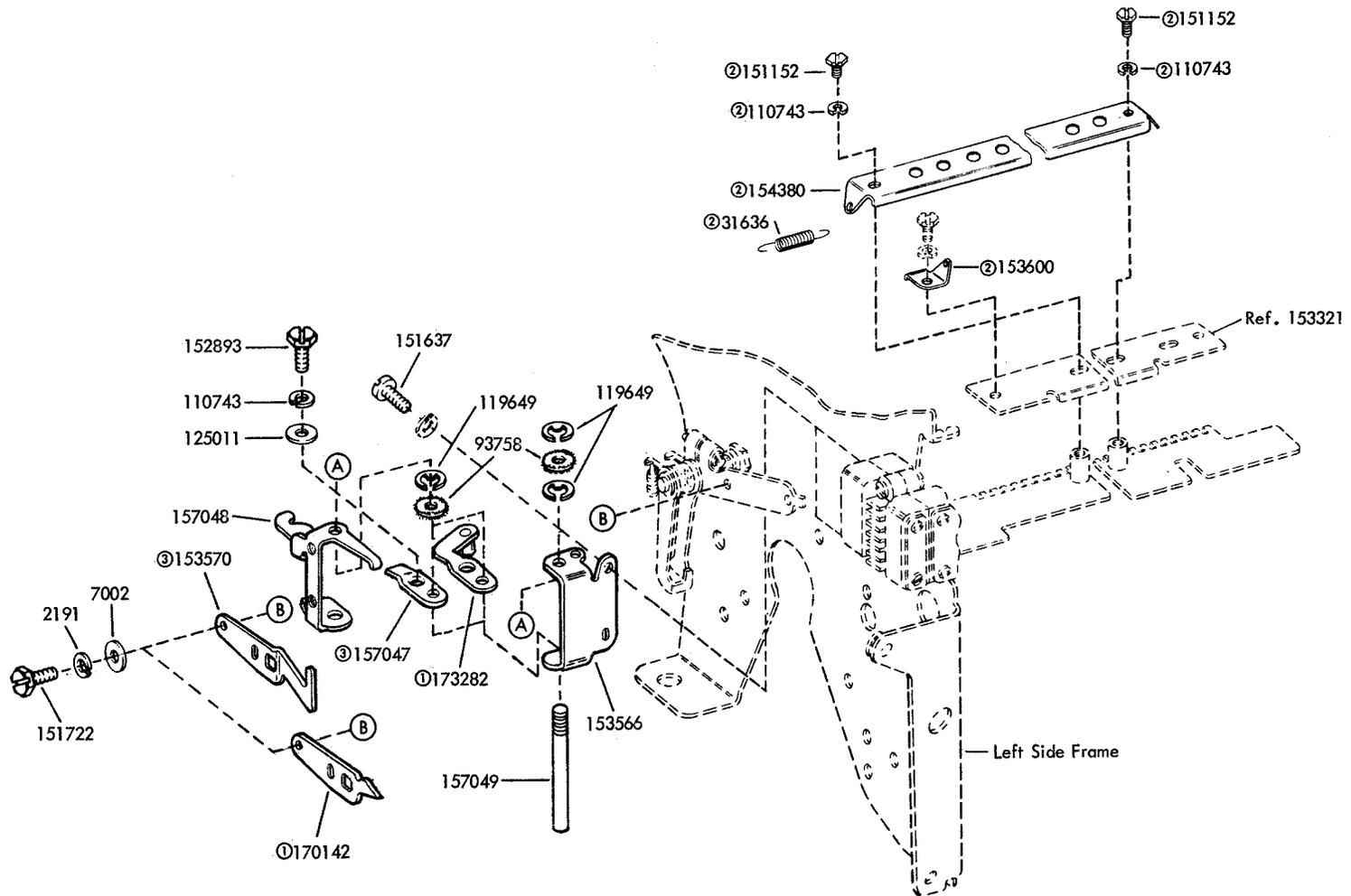


FIGURE 75. 152317 MODIFICATION KIT TO PROVIDE HORIZONTAL TABULATOR XD CONTROL

FIGURE 76. 152337, 157509 AND 173283 MODIFICATION KITS TO PROVIDE ON-LINE STUNT SHIFT CONTROL



Specification 58235

- ① Part of 173283 Modification Kit (8 Level)
- ② Part of 152337 (Mark II) and 173283 (8 Level) Modification Kits
- ③ Part of 152337 (Mark II) and 157509 (Mark III) Modification Kits

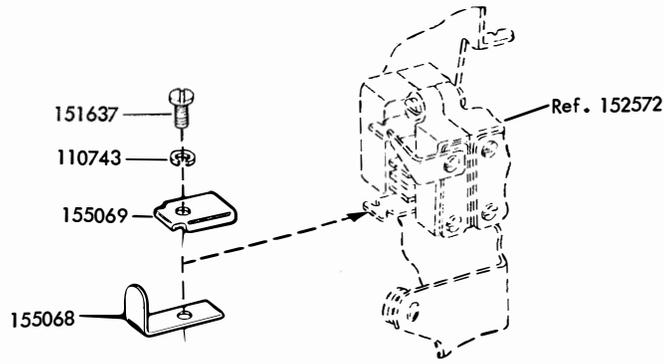
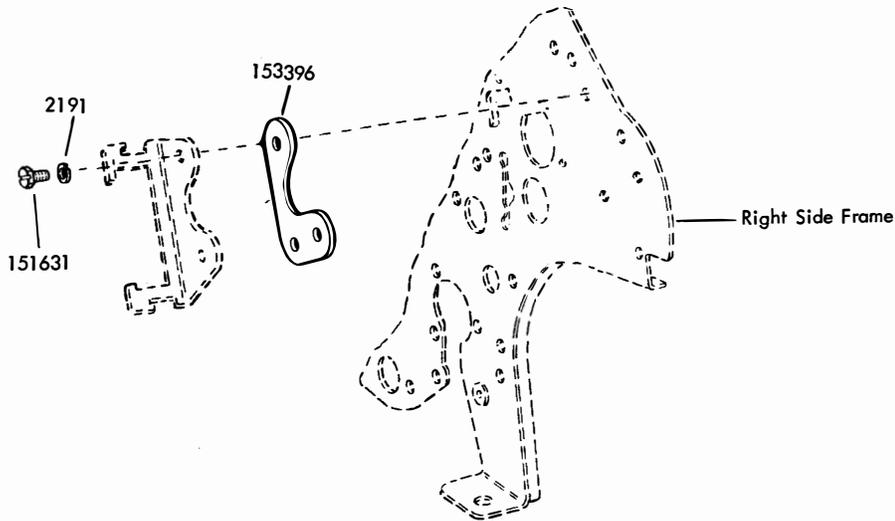
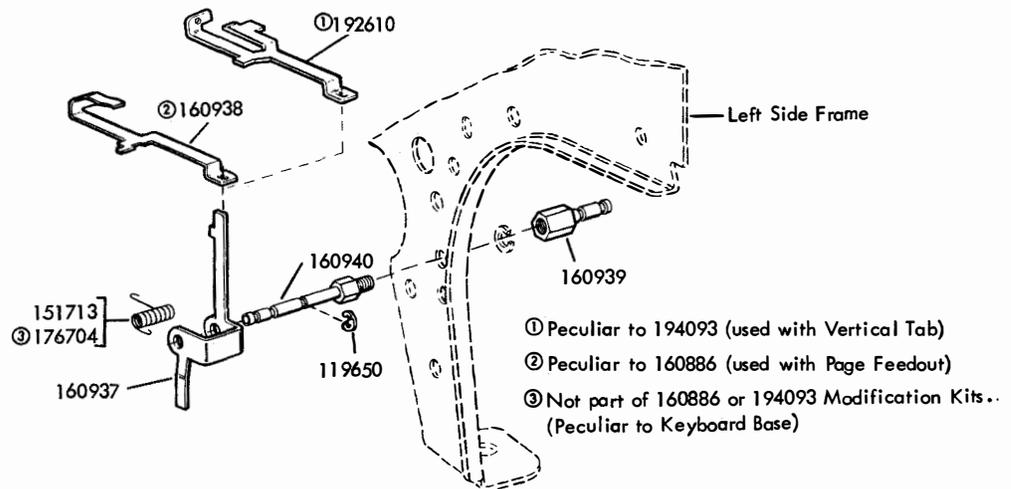


FIGURE 77. 153912 MODIFICATION KIT TO PROVIDE FIGS-LTRS CODE BAR MANUAL SHIFTING



Specification 57935

FIGURE 78. 152312 MODIFICATION KIT TO CONVERT PRINTER FOR USE WITH LIGHTWEIGHT SET



Specification 58905

FIGURE 79. 160886 AND 194093 MODIFICATION KITS TO PROVIDE LOCAL FORM FEED-OUT (RECEIVING ONLY BASE)

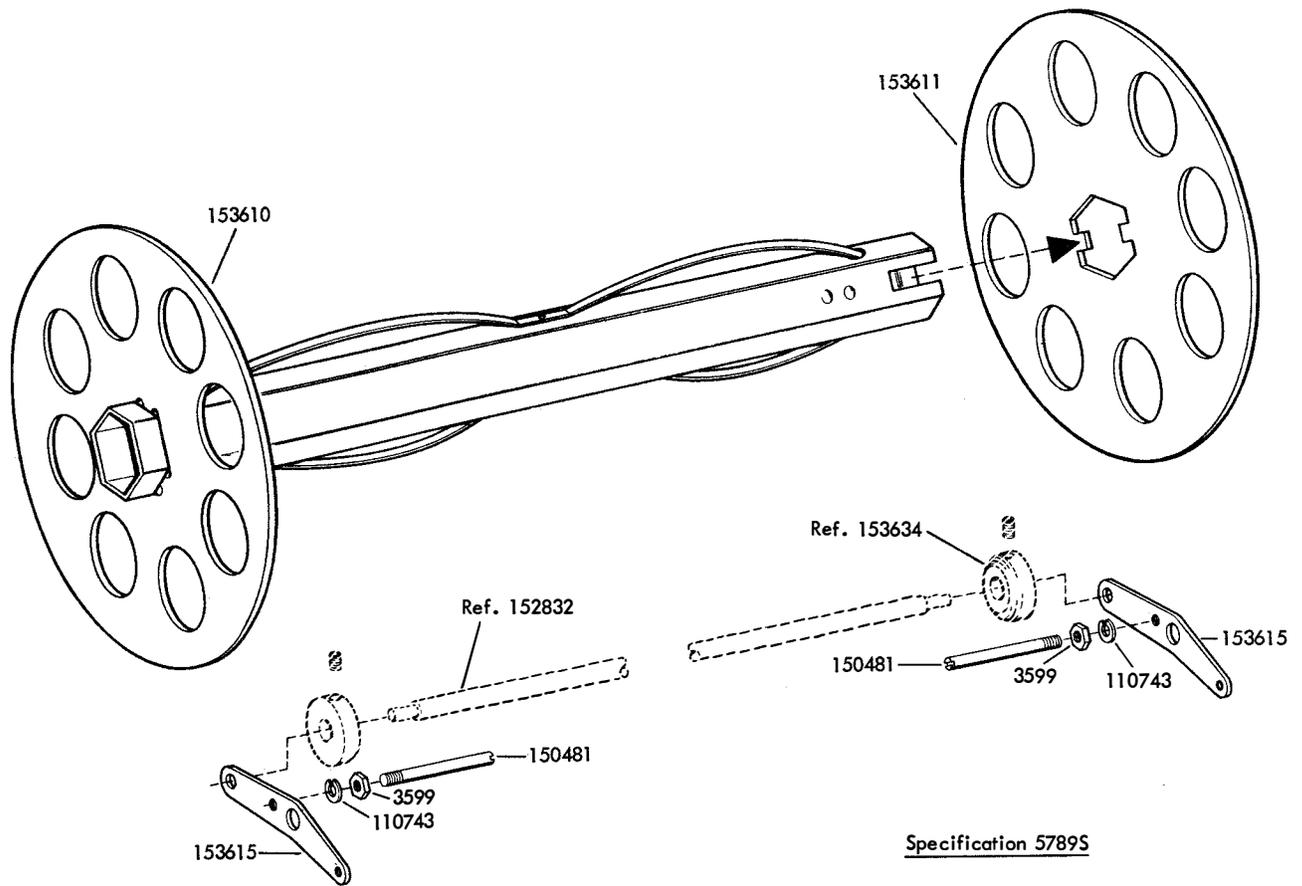


FIGURE 80. 152340 MODIFICATION KIT TO PROVIDE MULTI-COPY PAPER HANDLING

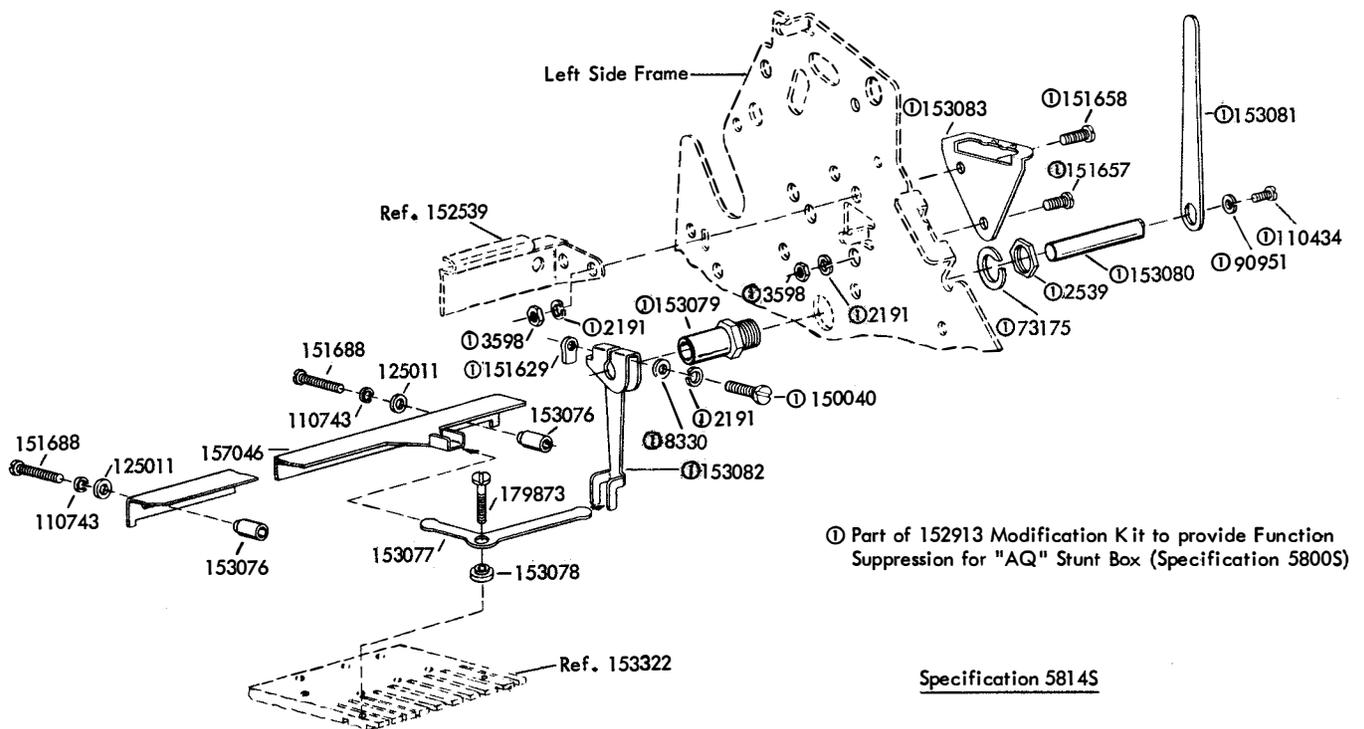
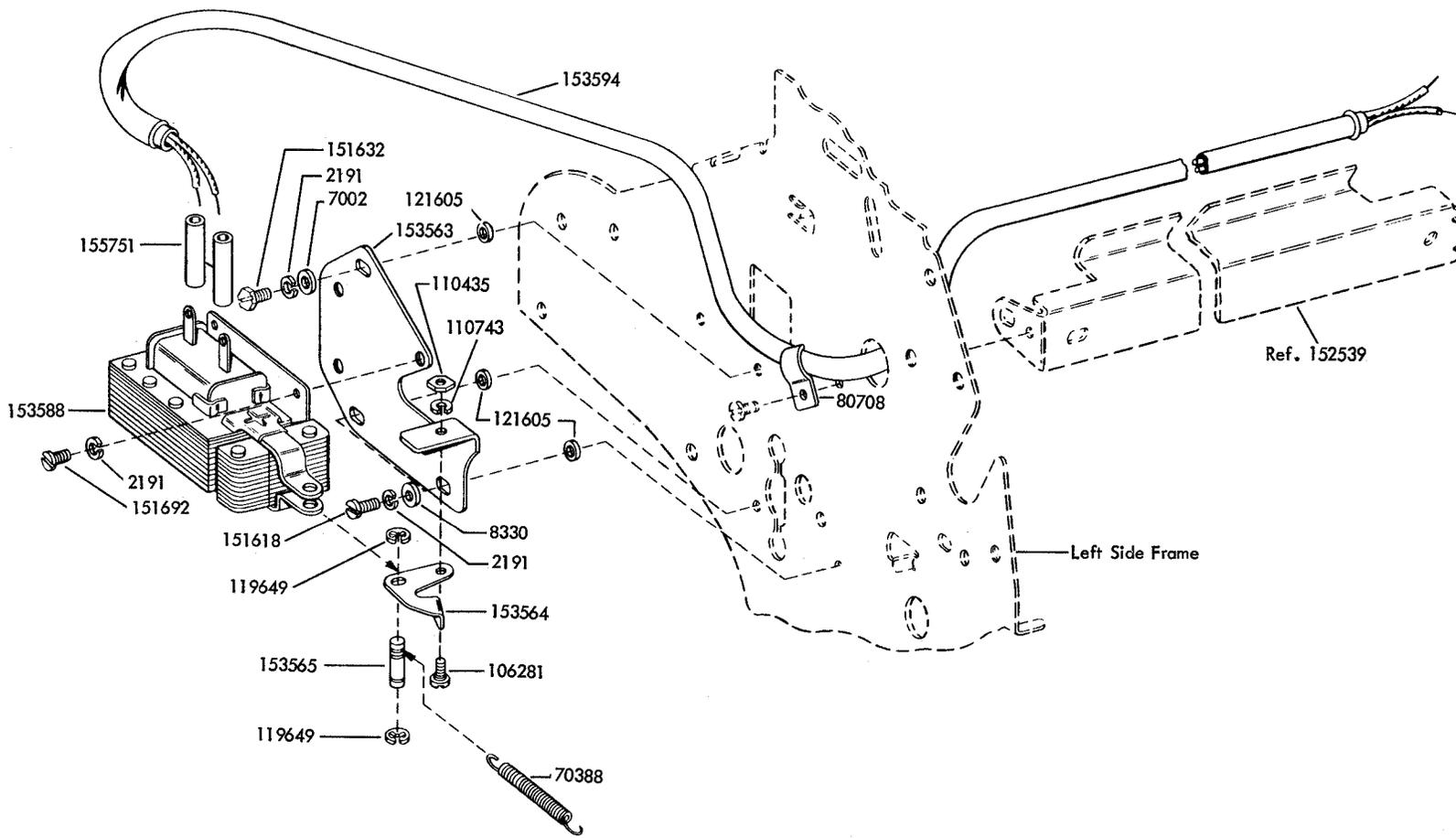


FIGURE 81. 153910 MODIFICATION KIT TO PROVIDE FUNCTION SUPPRESSION FOR "AZ" STUNT BOX



Specification 58235

FIGURE 82. 152345 MODIFICATION KIT TO PROVIDE OFF-LINE STUNT SHIFT CONTROL

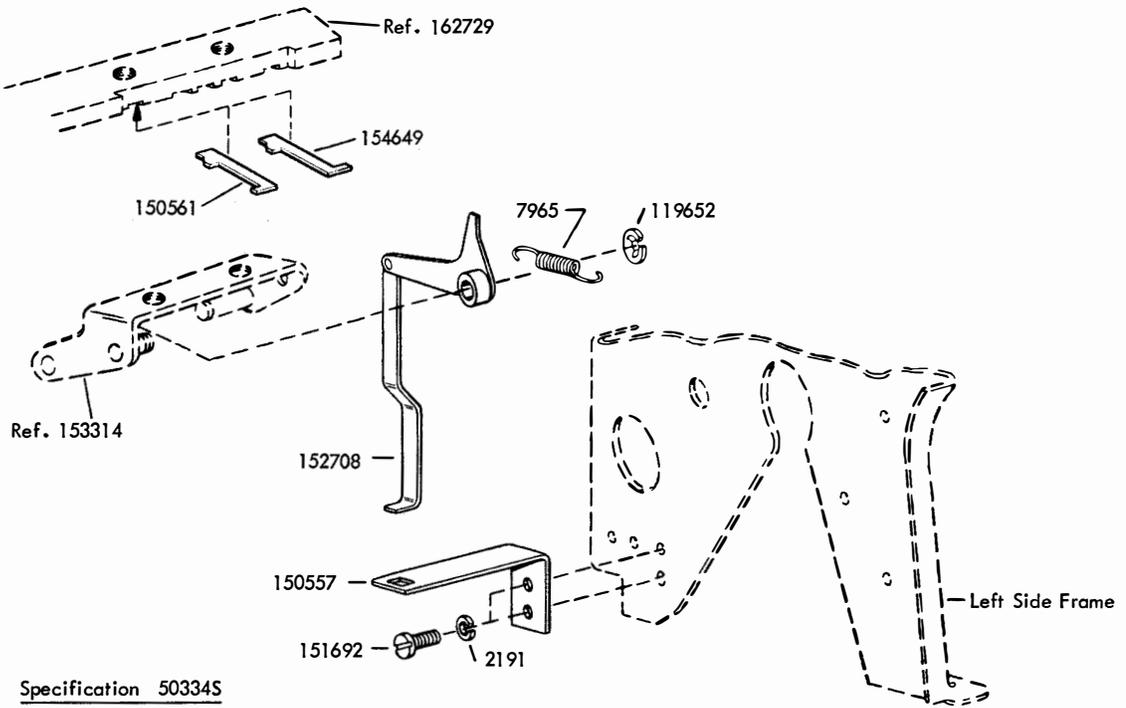


FIGURE 83. 152350 MODIFICATION KIT TO PROVIDE KEYBOARD LOCK

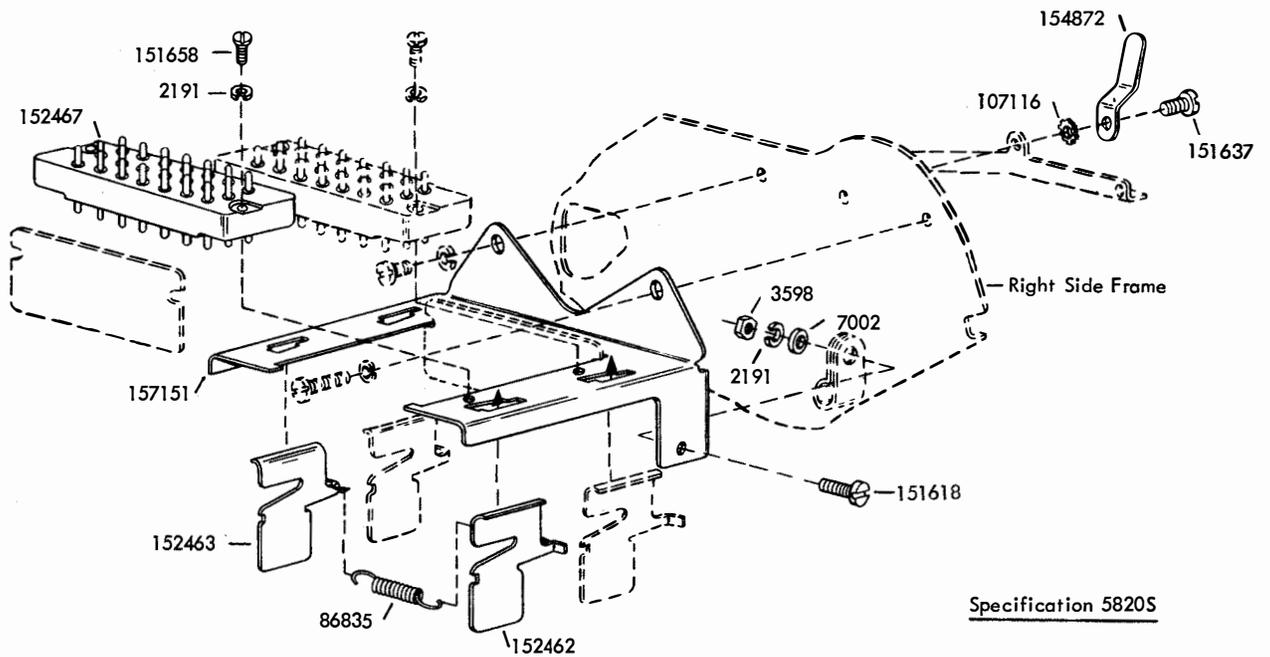
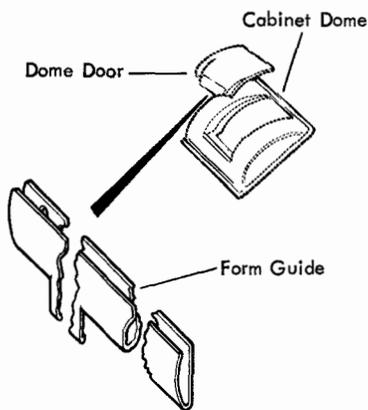
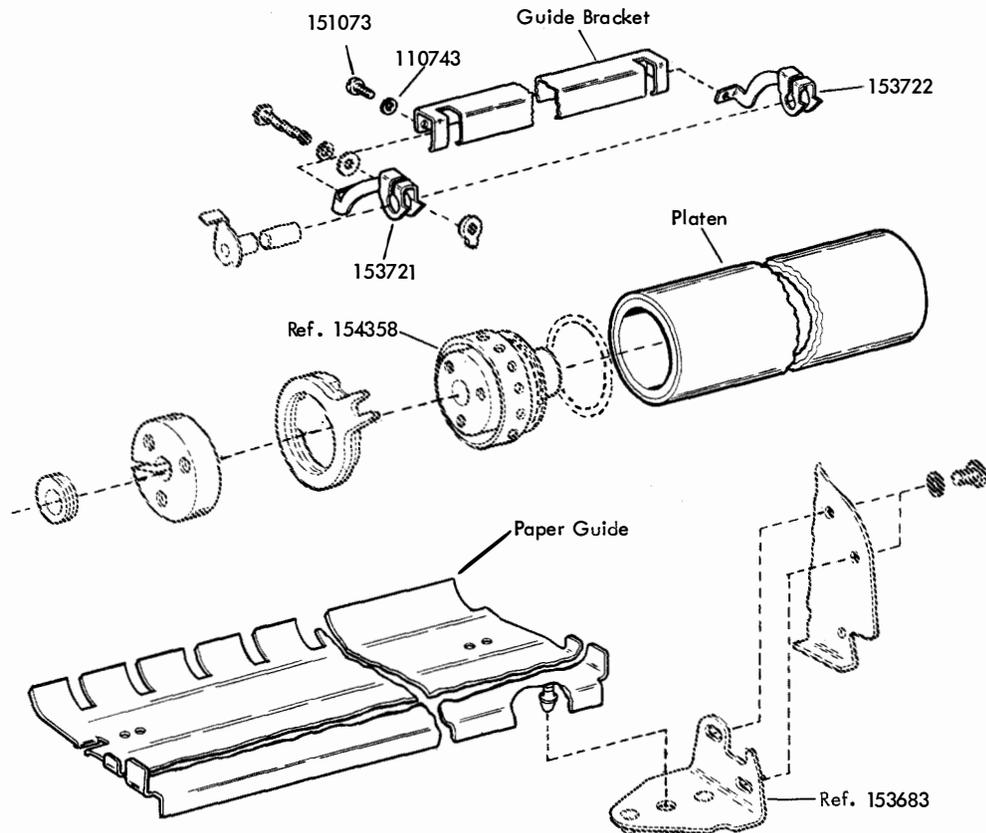


FIGURE 84. 153919 MODIFICATION KIT TO PROVIDE AUXILIARY CONNECTOR





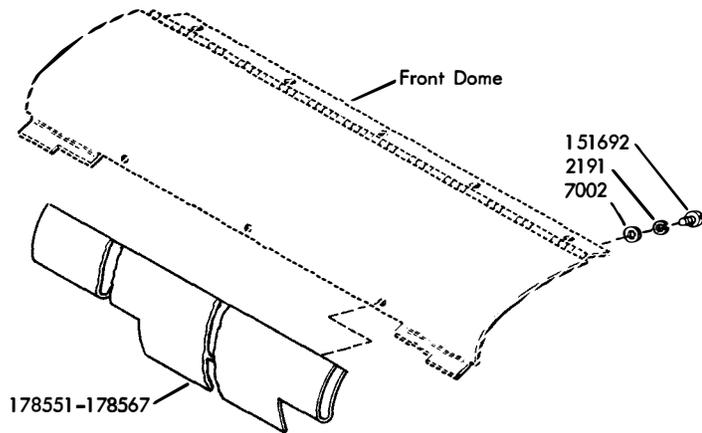
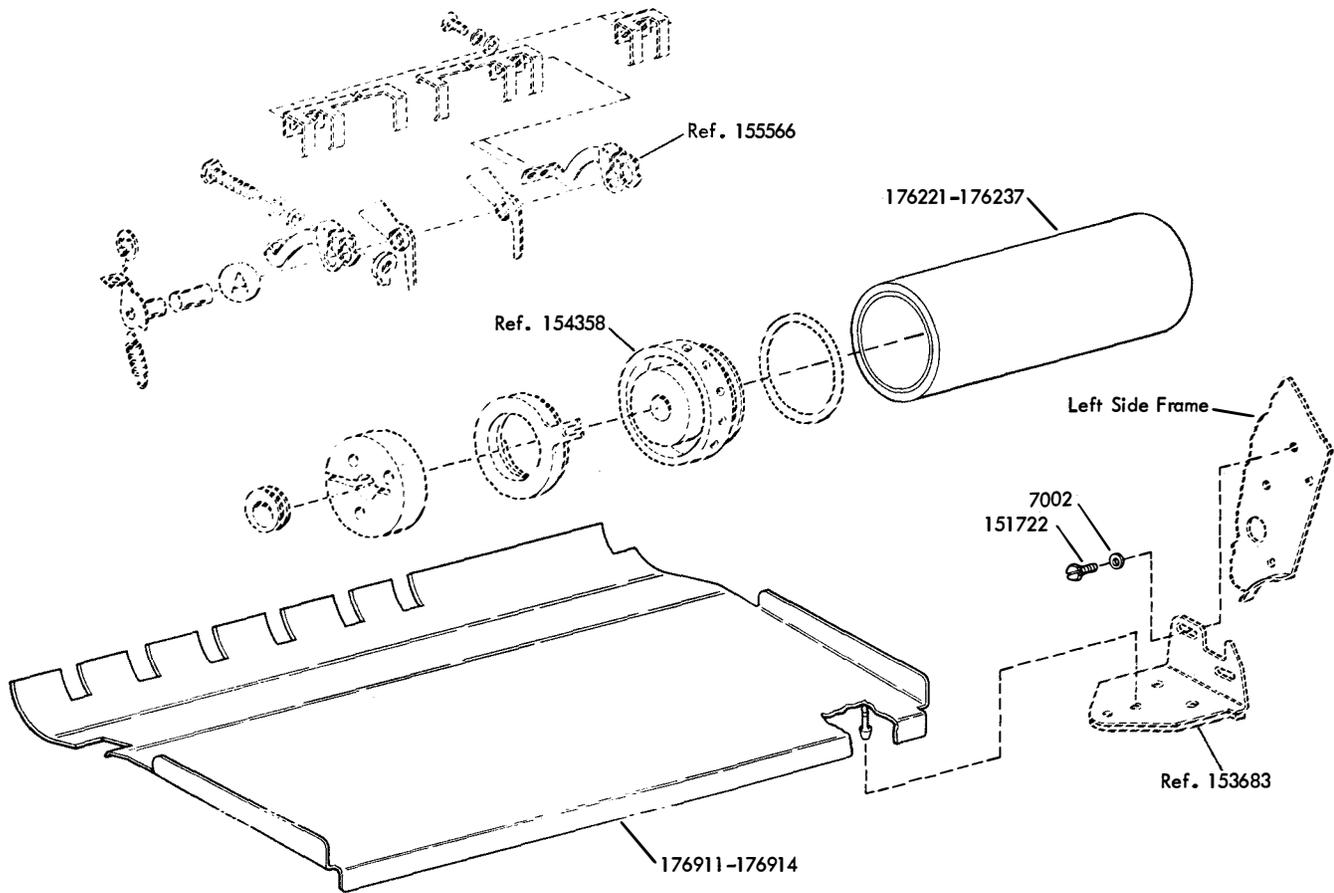
See note 28 on page 116

Specification 57925

① PAPER WIDTHS	PAPER GUIDE	GUIDE BRACKET	MOD. KIT: PAPER HANDLING PARTS		
			KIT. NO.	PLATEN	FORM GUIDE
9-1/2"	305028	305771	310733	176238	305059
9"	304773	153771	176181	176221	153652
8-1/2"	304772	153772	176182	176222	153653
8"	304773	153773	176183	176223	153654
7-1/2"	304772	153774	176184	176224	153655
7"	304773	153775	176185	176225	153656
6-1/2"	304772	153776	176186	176226	153657
6-3/8"	304774	153777	176187	176227	153658
6-1/4"	304775	153778	176188	176228	153659
6"	304773	153779	176189	176229	153660
5-3/4"	304774	153780	176190	176230	153661
5-1/2"	304772	153781	176191	176231	153662
5"	304773	153782	176192	176232	153663
4-1/2"	304772	153783	176193	176233	153664
4-5/16"	304775	153784	176194	176234	153665
4-1/4"	304774	153785	176195	176235	153665
4"	304773	153786	176196	176236	153666
3-5/8"	304772	153787	176197	176237	153667

① The width shown is the overall dimension of the paper, and the distance between Sprocket Pin holes is 1/2" less.

FIGURE 86. SPROCKET FEED PAPER HANDLING MODIFICATION KITS (TYPING UNIT AND CABINET)

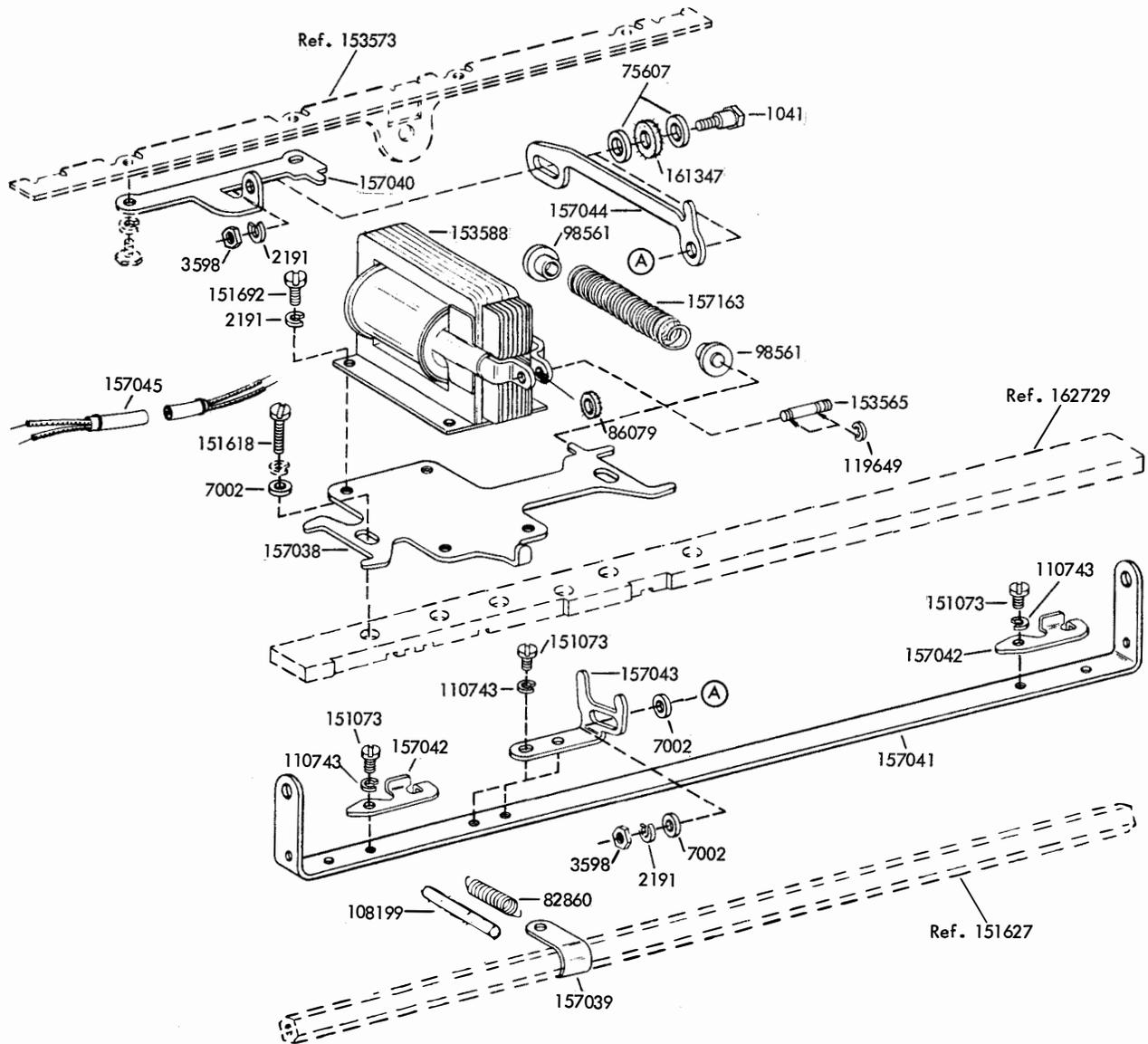


Paper Widths	Paper Guide	Mod. Kit Paper Handling Parts		
		Kit No.	Platen	Form Guide
9"	176912	178568	176221	178551
8-1/2"	176911	178569	176222	178552
8"	176912	178570	176223	178553
7-1/2"	176911	178571	176224	178554
7"	176912	178572	176225	178555
6-1/2"	176911	178573	176226	178556
6-3/8"	176913	178574	176227	178557
6-1/4"	176914	178575	176228	178558
6"	176912	178576	176229	178559
5-3/4"	176913	178577	176230	178560
5-1/2"	176911	178578	176231	178561
5"	176912	178579	176232	178562
4-1/2"	176911	178580	176233	178563
4-5/16"	176914	178581	176234	178564
4-1/4"	176913	178582	176235	178565
4"	176912	178583	176236	178566
3-5/8"	176911	178584	176237	178567

② The width shown is the overall dimension of the paper, and the distance between Sprocket Pin holes is 1/2" less.

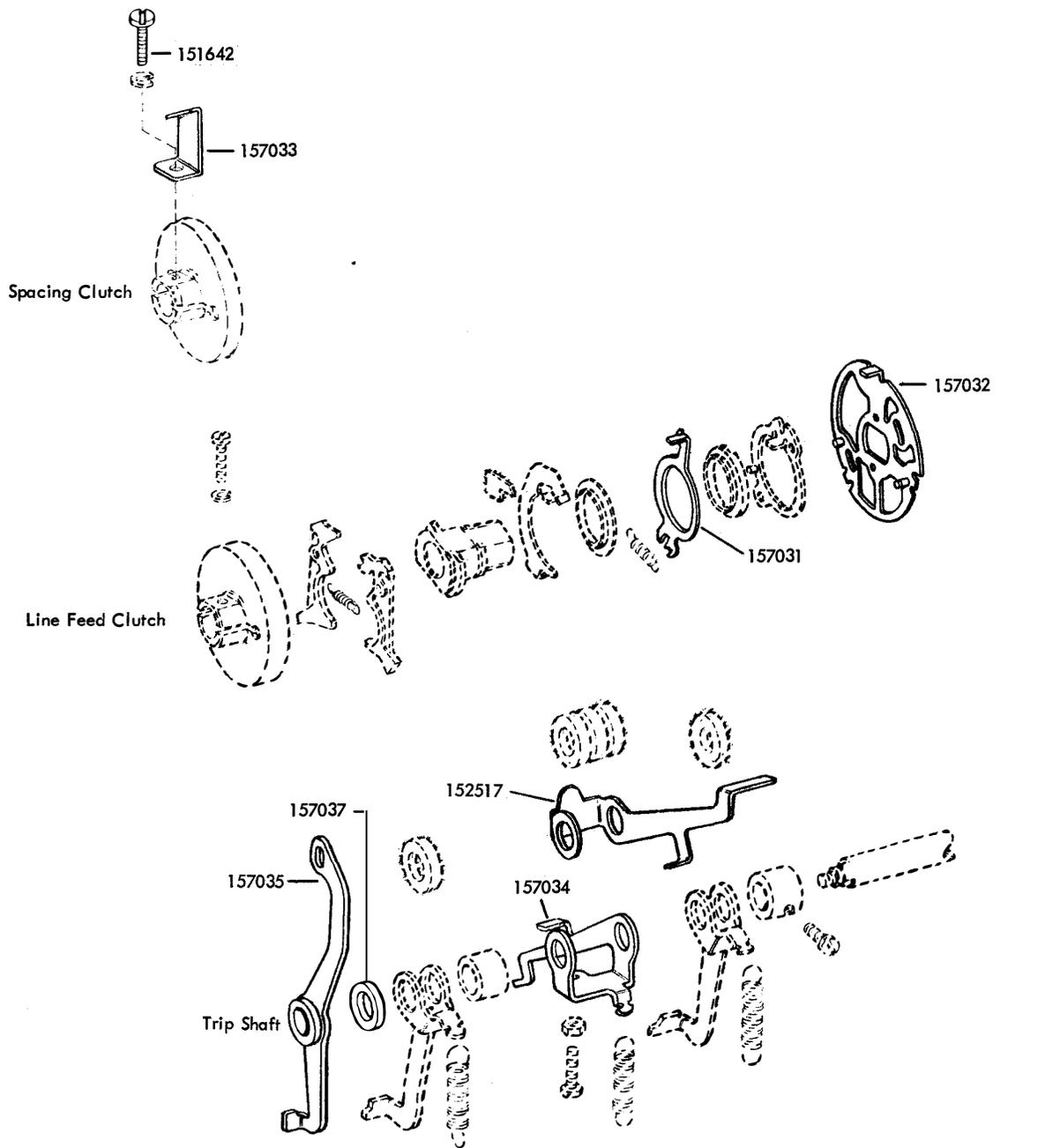
Specification 57925

FIGURE 87. SPROCKET FEED PAPER HANDLING MODIFICATION KITS (WALL MOUNTED TYPING UNIT AND CABINET)



Specification 5775

FIGURE 88. 153911 MODIFICATION KIT TO PROVIDE CONTINUOUS SPACING  
(CONTINUED ON NEXT PAGE)



Specification 5775

FIGURE 89. 153911 MODIFICATION KIT TO PROVIDE CONTINUOUS SPACING  
(CONTINUED FROM PRECEDING PAGE)

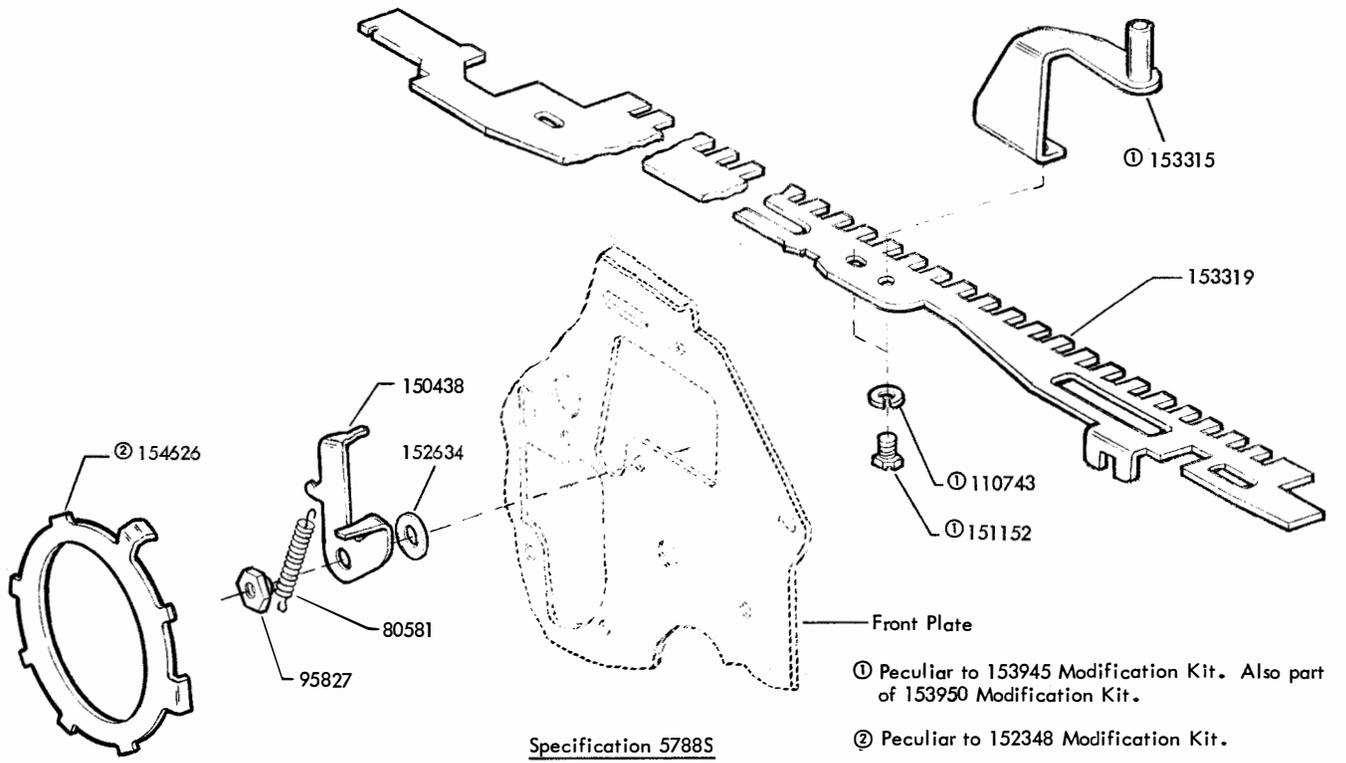


FIGURE 90. 152348 AUTOMATIC CARRIAGE RETURN AND LINE FEED AND 153945 "O" CODE BAR AND BELLCRANK MODIFICATION KITS

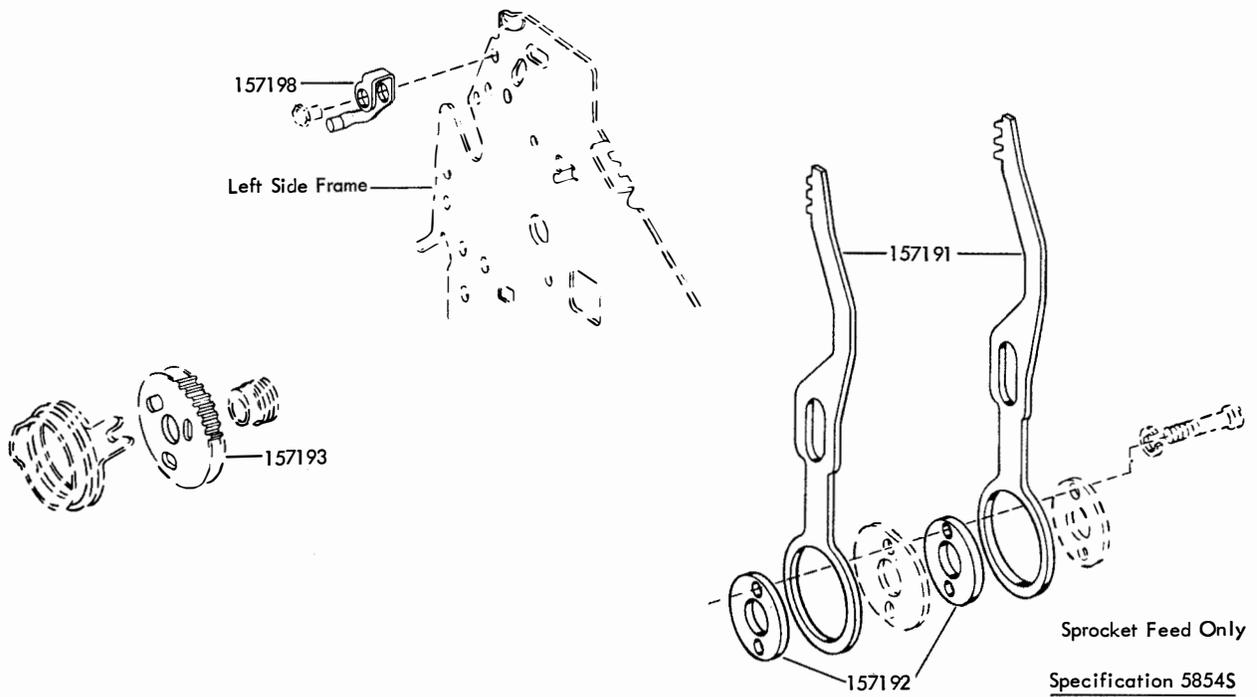


FIGURE 91. 154742 MODIFICATION KIT TO PROVIDE FOUR LINES PER INCH

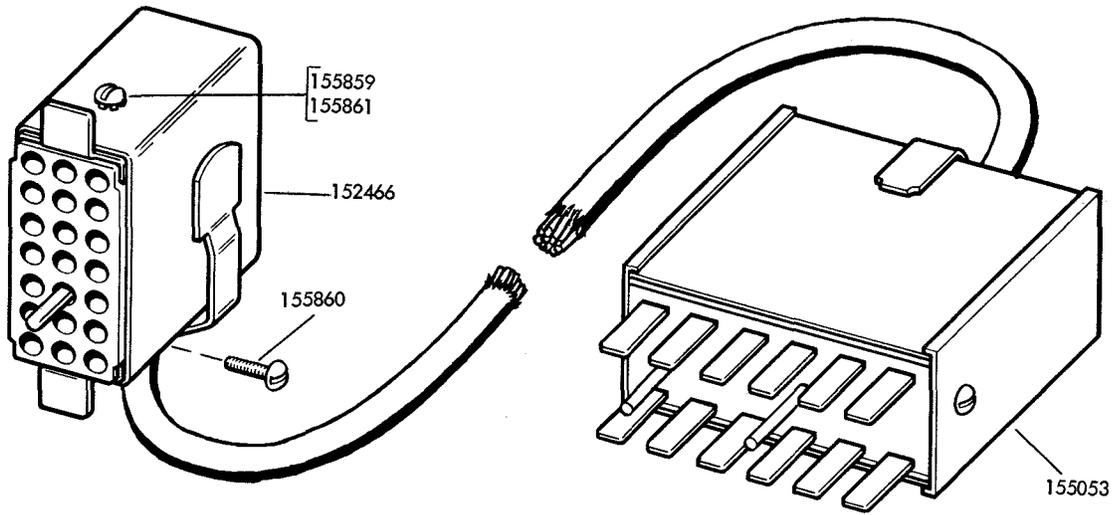


FIGURE 92. 155051 AUXILIARY CABLE ASSEMBLY

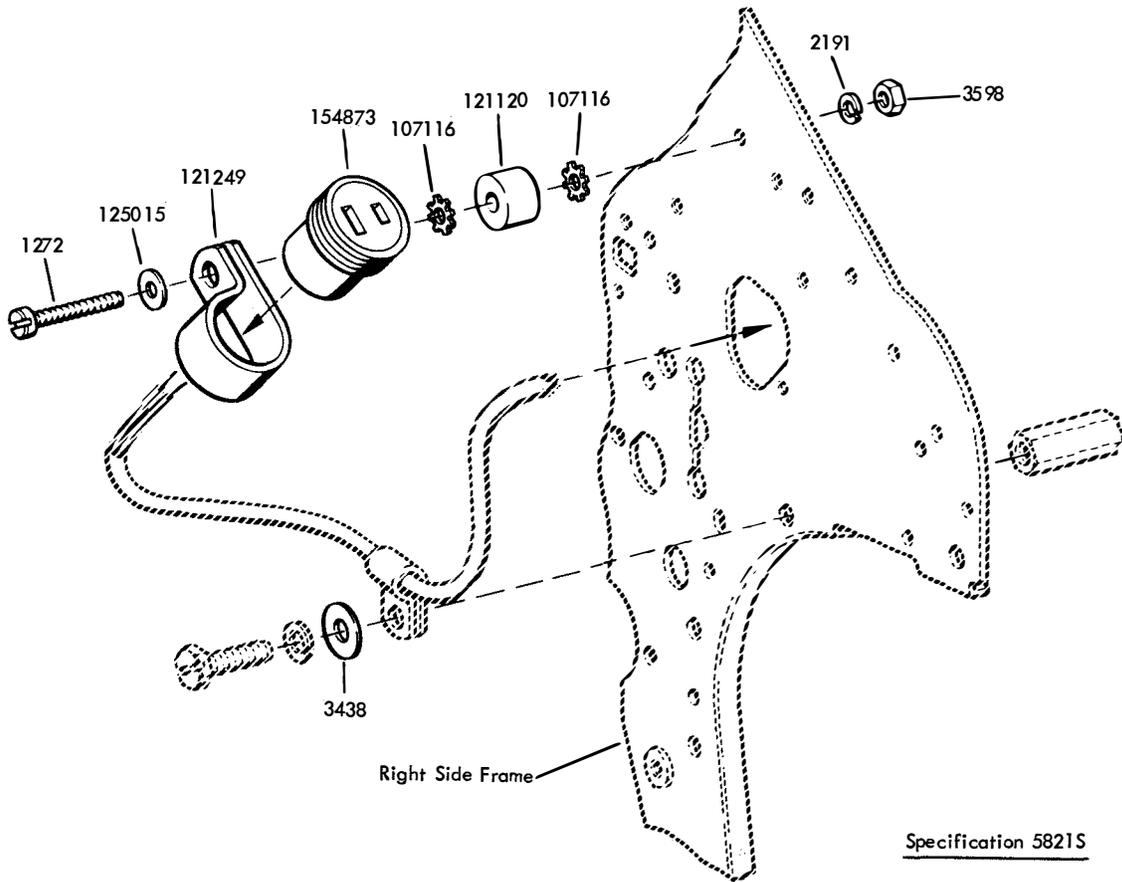


FIGURE 93. 154753 MODIFICATION KIT TO PROVIDE AUXILIARY CONNECTOR

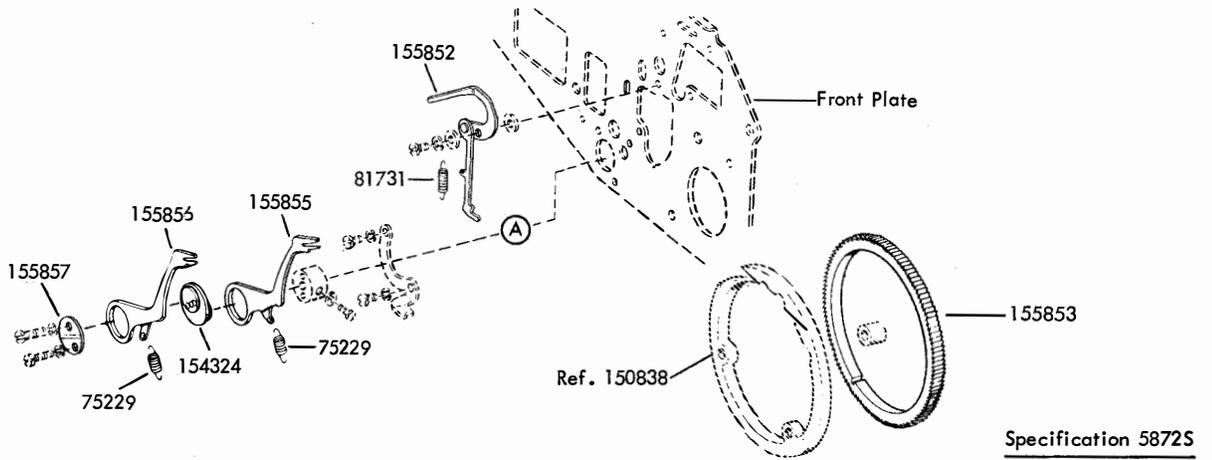


FIGURE 94. 154755 MODIFICATION KIT TO PROVIDE 5 SPACES PER INCH HORIZONTALLY

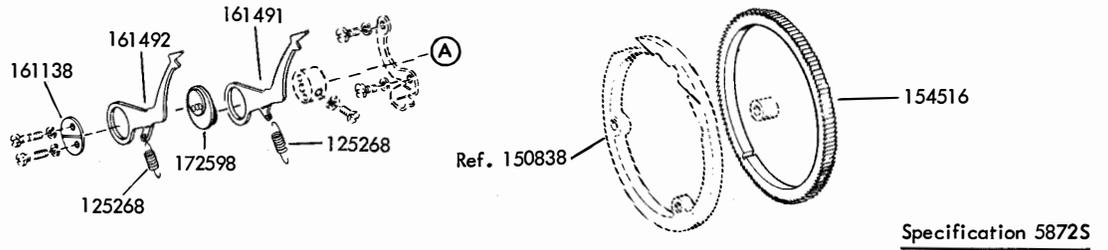


FIGURE 95. 159395 MODIFICATION KIT TO PROVIDE 6 SPACES PER INCH HORIZONTALLY

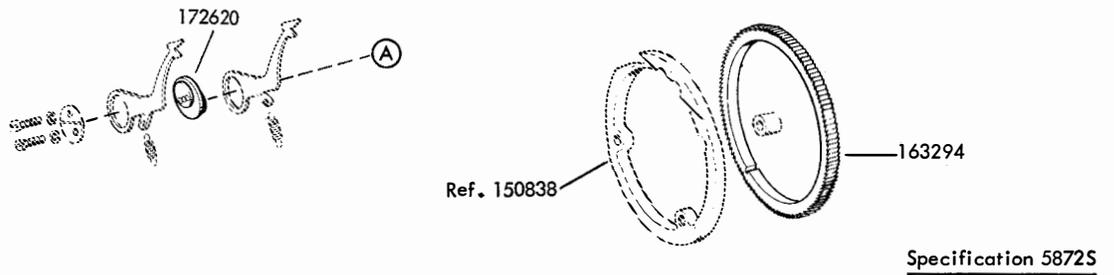


FIGURE 96. 163292 MODIFICATION KIT TO PROVIDE 8 SPACES PER INCH HORIZONTALLY

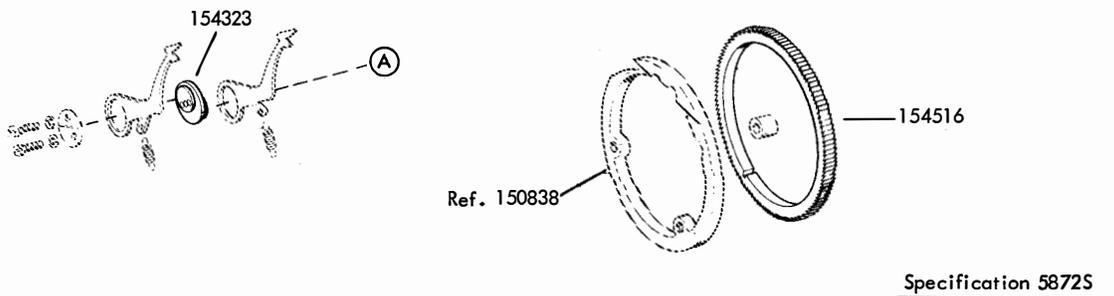
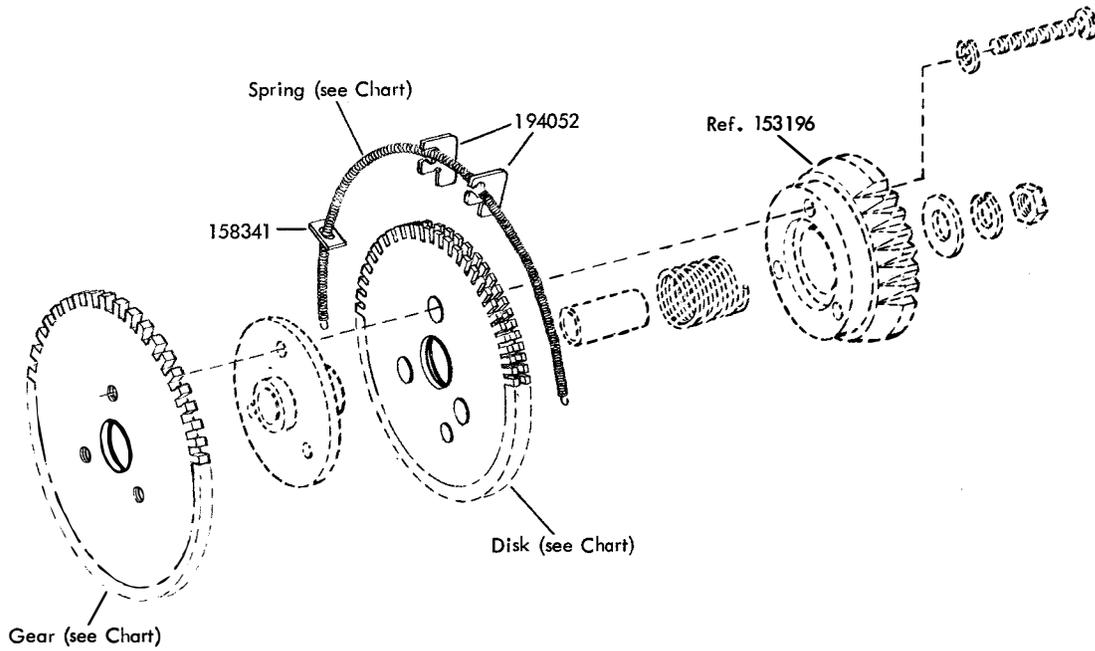


FIGURE 97. 154792 MODIFICATION KIT TO PROVIDE 12 SPACES PER INCH HORIZONTALLY



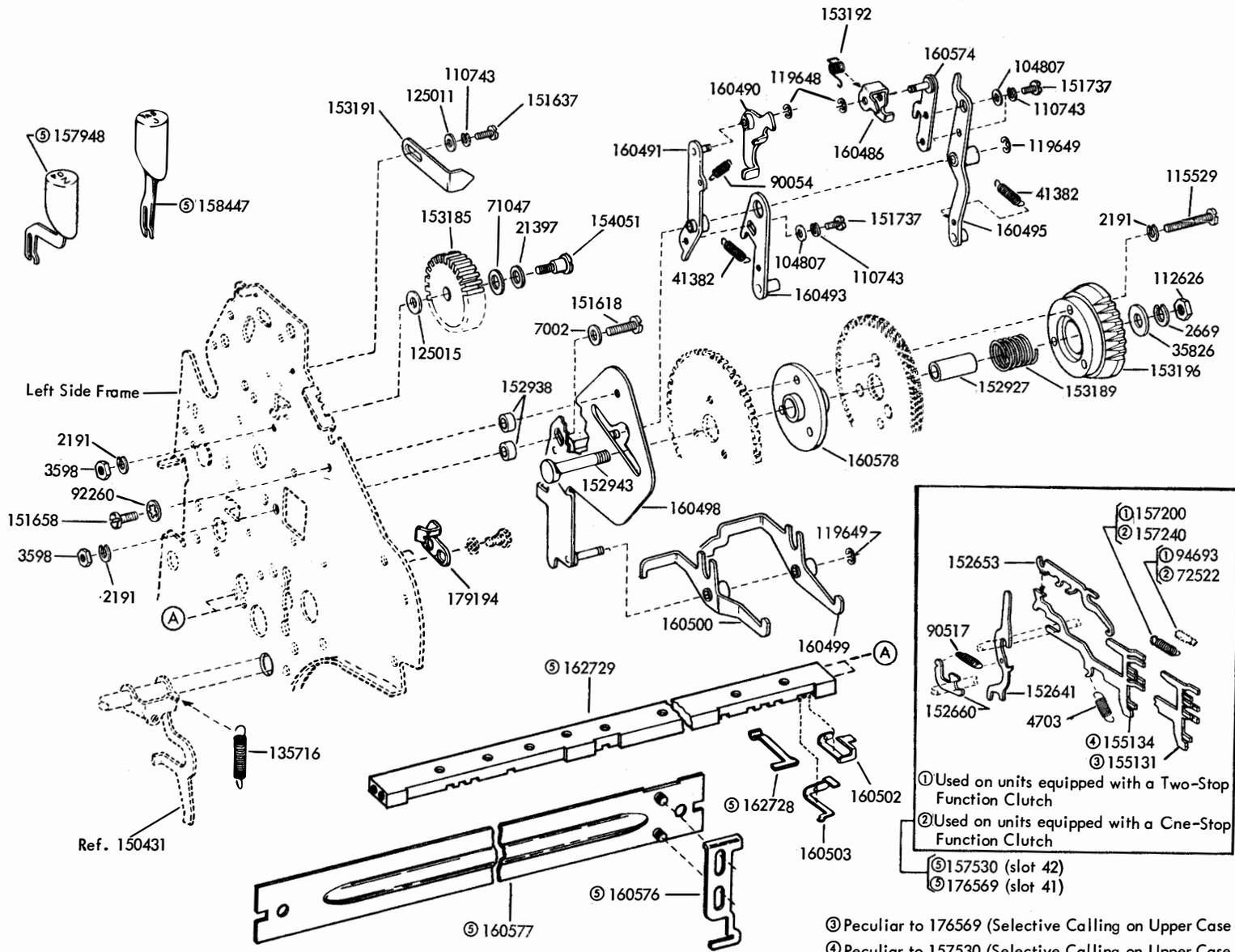
FORM LENGTH IN INCHES	MOD KIT	GEAR NO.	DISK NO.	SPRING NO.	NO. OF STOPS
8, 4, 2	154760	153198	160505	160527	47
8-1/2	154761	153199	160506	160528	10
9, 4-1/2	154762	153200	160507	160529	10
9-1/2	154763	153201	160508	160530	11
10, 5	154764	153202	160509	160531	12
11, 5-1/2	154765	153203	160510	160532	14
12, 6, 3	154766	153204	160511	160533	15
13, 6-1/2	154767	153205	160512	160534	16
14, 7, 3-1/2	154768	153206	160513	160535	17
15, 7-1/2	154769	153207	160514	160536	18
14-2/3, 7-1/3, 3-2/3	192706	161250	192704	160536	16
13, 6-1/2, 3-1/4	①197849	197732	197734	160534	14
4-1/4	②197850	197731	197733	160528	10
14, 7, 3-1/2	305079	305071	305075	160536	16

Specification 500045

① The 197849 and 197850 Modification Kits can only be used with the 154742 Modification Kit (4 lines per inch). The 197849 and 197850 Modification Kits also include the 197735, 197736, 197737 and 197840 Spur Gears shown in their respective positions in Figure 68.

FIGURE 98. VERTICAL TABULATION MODIFICATION KITS

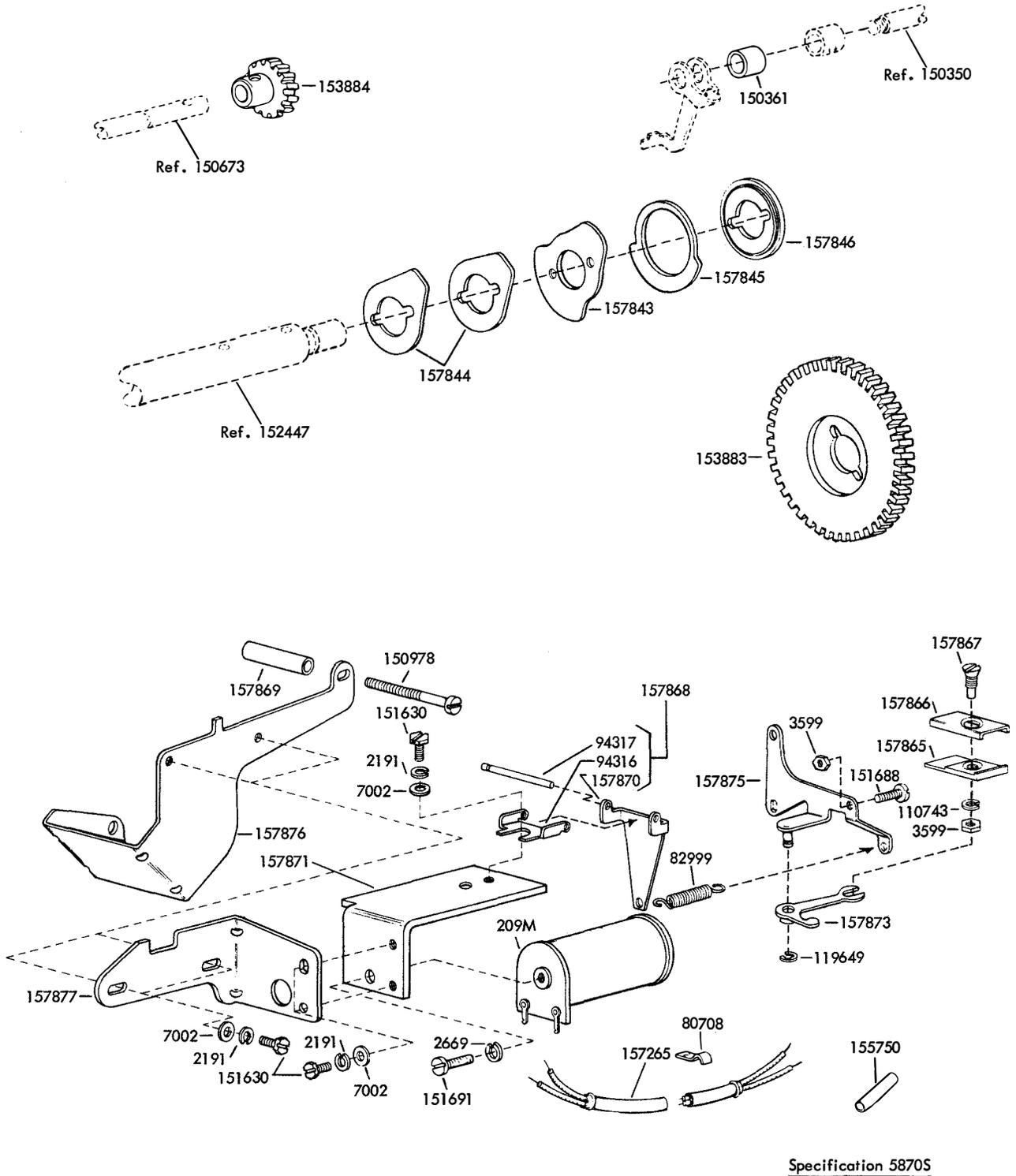
FIGURE 99. 154770 MODIFICATION KIT TO PROVIDE VERTICAL TABULATION ON UPPER CASE "J" AND "Z" (INCLUDES THE 163535 MODIFICATION KIT IN FIGURE 109)



Ⓞ Peculiar to 176569 (Selective Calling on Upper Case "J")  
 Ⓞ Peculiar to 157530 (Selective Calling on Upper Case "Z")

The 154771 Modification Kit to Provide Vertical Tabulation consists of all parts on this page except those marked Ⓞ

Specification 500045



Specification 58705

FIGURE 100. 154778 MODIFICATION KIT TO PROVIDE EXTERNAL PULSE SHIFT FEATURE (CONTINUED ON NEXT PAGE)

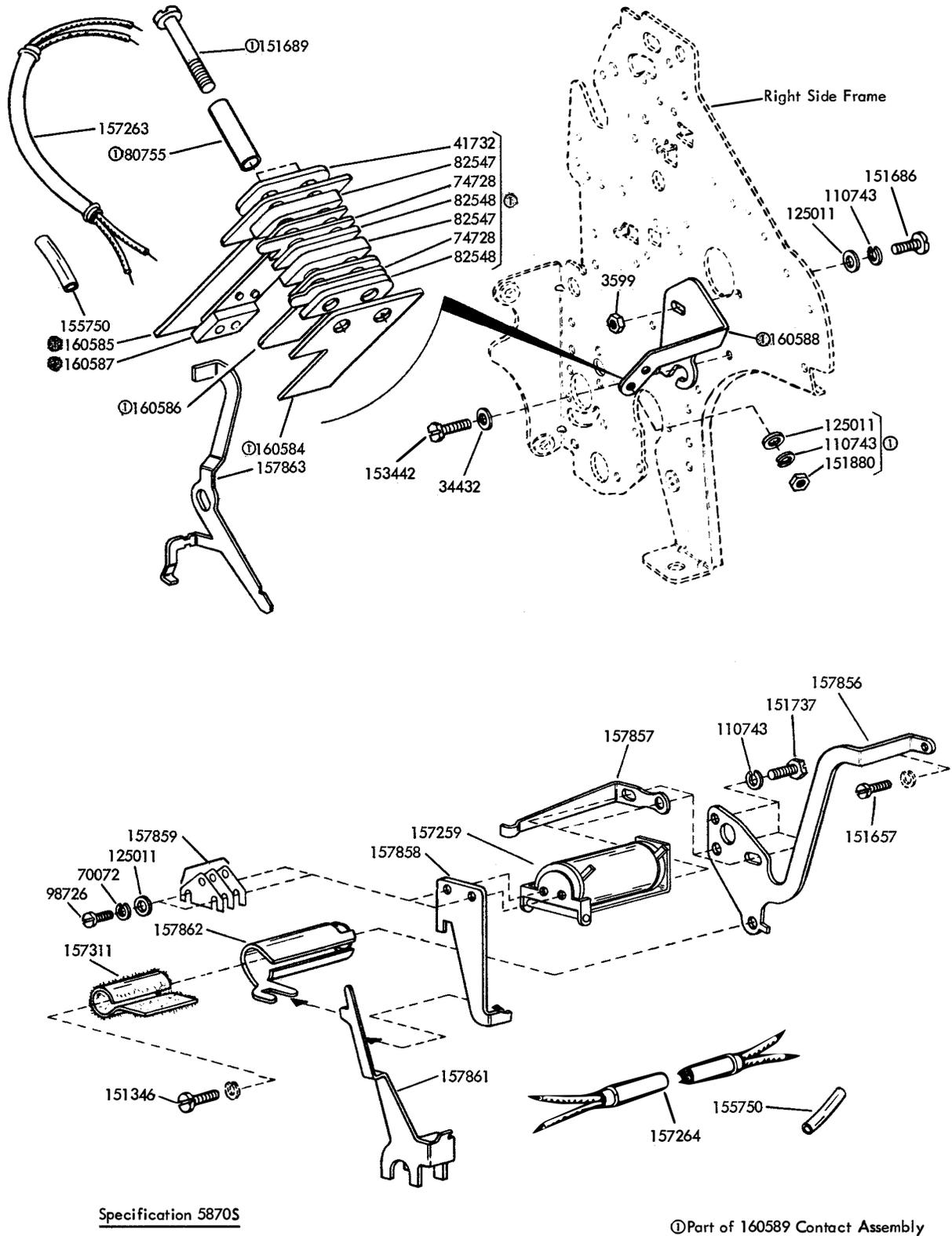
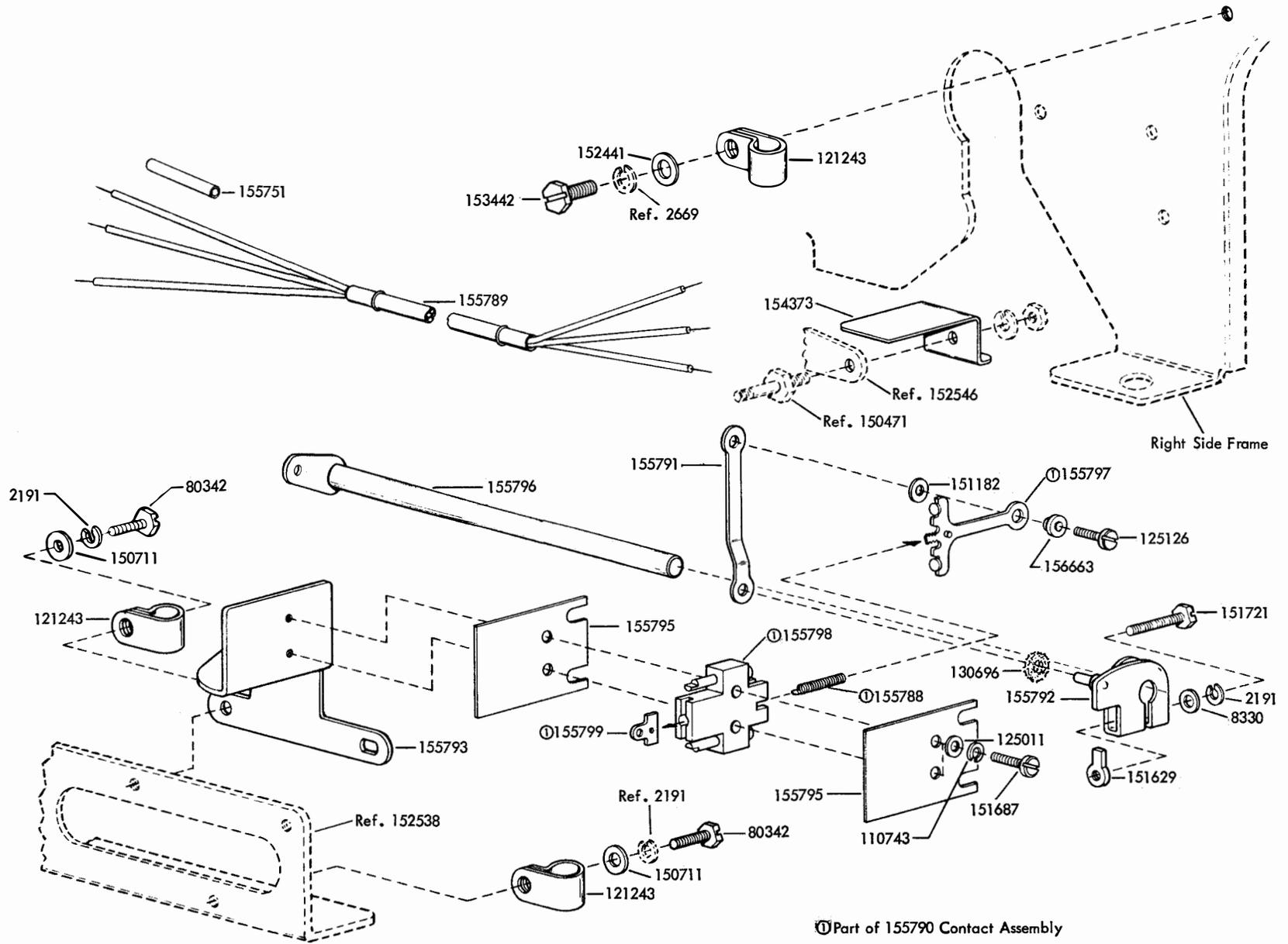


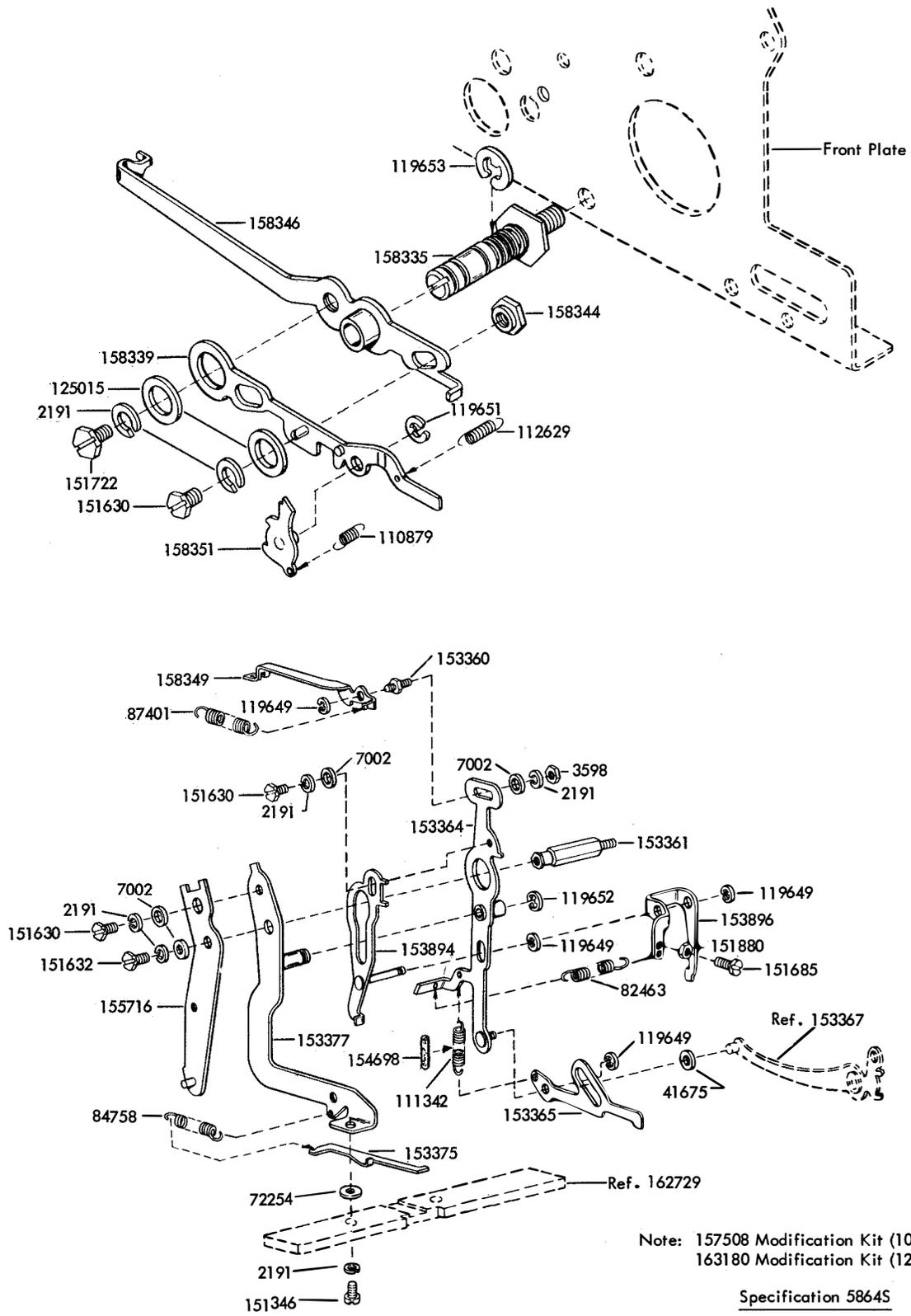
FIGURE 101. 154778 MODIFICATION KIT TO PROVIDE EXTERNAL PULSE SHIFT FEATURE (CONTINUED FROM PRECEDING PAGE)

FIGURE 102. 154785 MODIFICATION KIT TO PROVIDE UNIVERSAL CONTACTS



⓪ Part of 155790 Contact Assembly

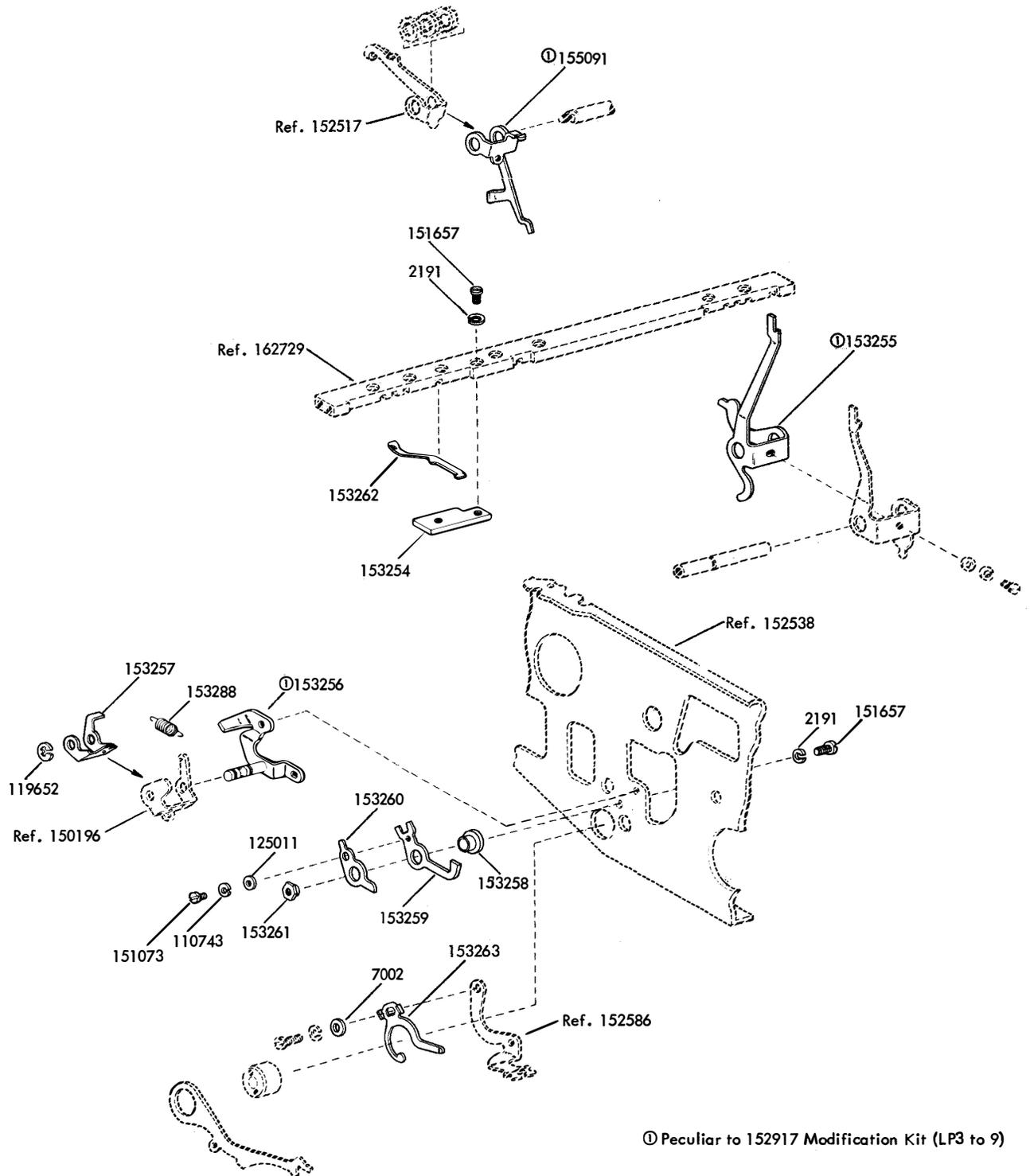
Specification 58045



Note: 157508 Modification Kit (10 to inch)  
 163180 Modification Kit (12 to inch)  
 Specification 5864S

FIGURE 103. 157508 AND 163180 MODIFICATION KITS TO PROVIDE HORIZONTAL TABULATION  
 (CONTINUED ON NEXT PAGE)

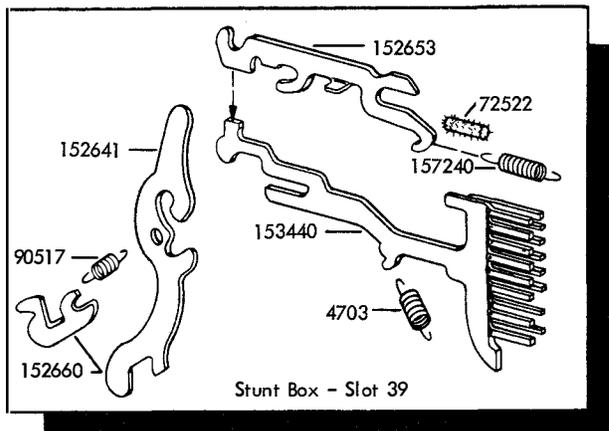
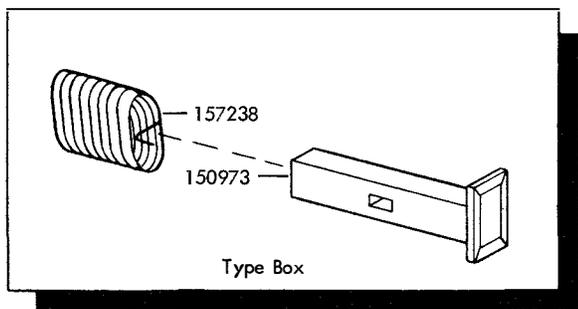
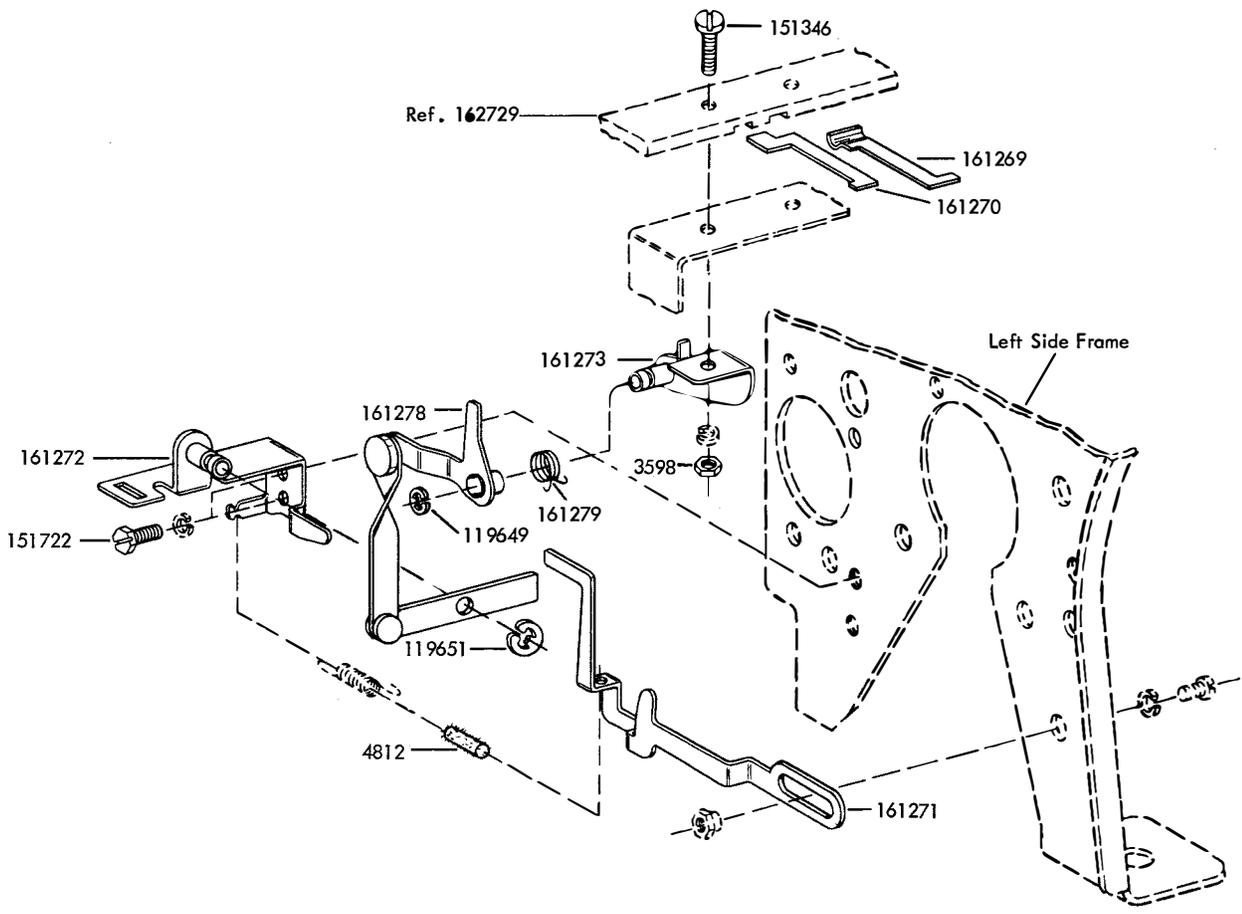




Ⓛ Peculiar to 152917 Modification Kit (LP3 to 9)

Specification 5766S

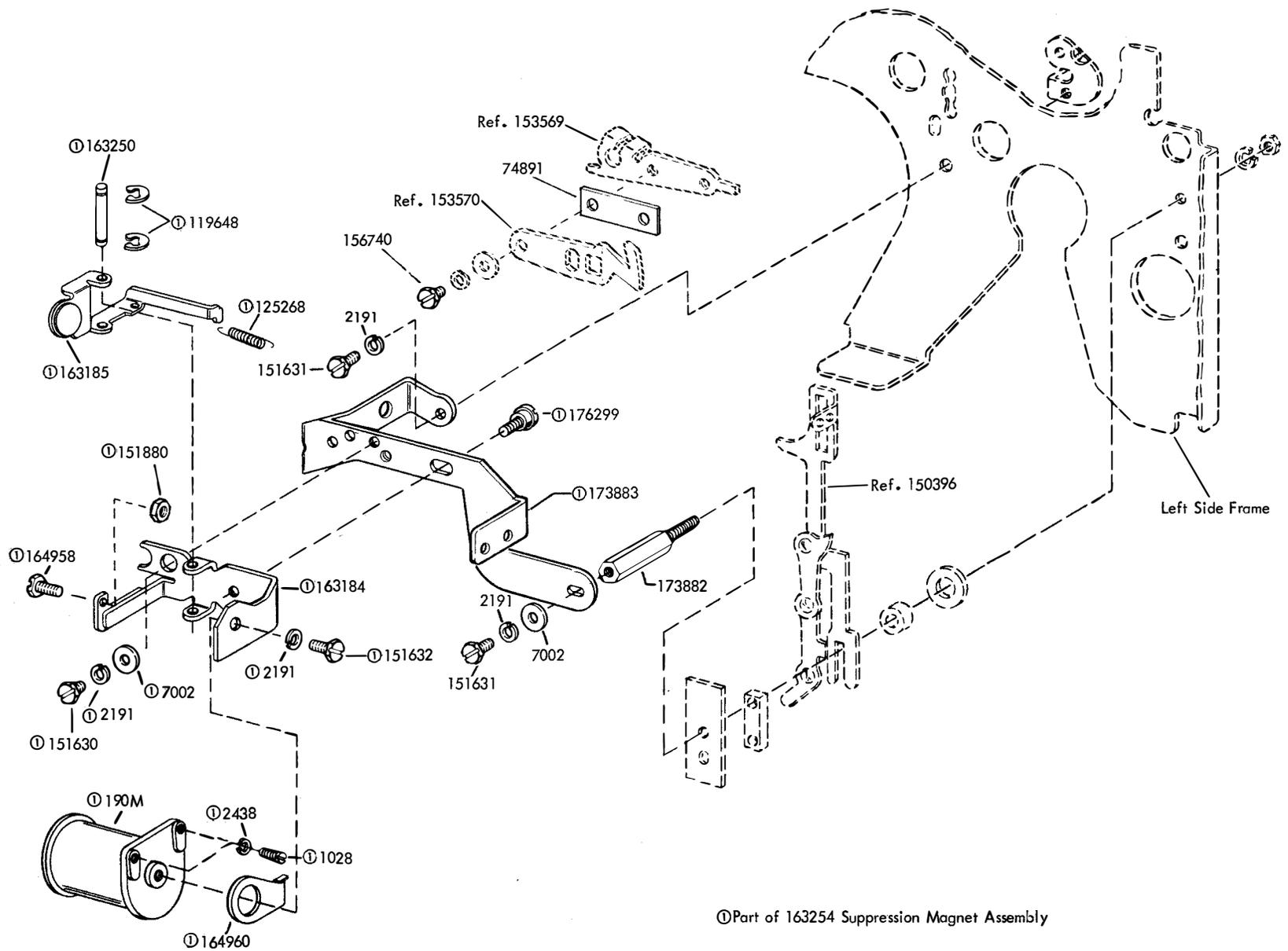
FIGURE 105. 152917 AND 157510 MODIFICATION KITS TO PROVIDE LOCAL BACK SPACE



Specification 5898S

FIGURE 106. 161280 MODIFICATION KIT TO PROVIDE ON-LINE REVERSE LINE FEED

FIGURE 107. 163183 MODIFICATION KIT TO PROVIDE D. C. MAGNET OPERATED PRINT SUPPRESSION



① Part of 163254 Suppression Magnet Assembly

Specification 59465

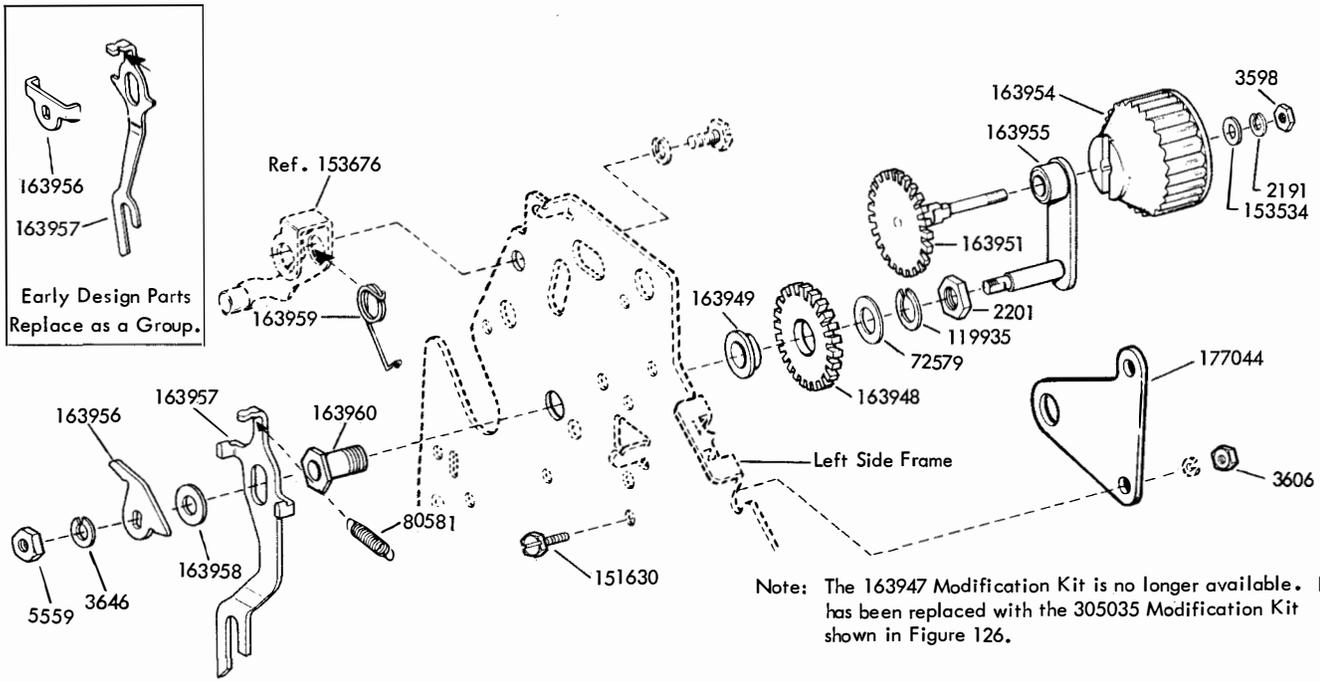


FIGURE 108. 163947 MODIFICATION KIT TO PROVIDE IMPROVED MANUAL PLATEN LINE FEED

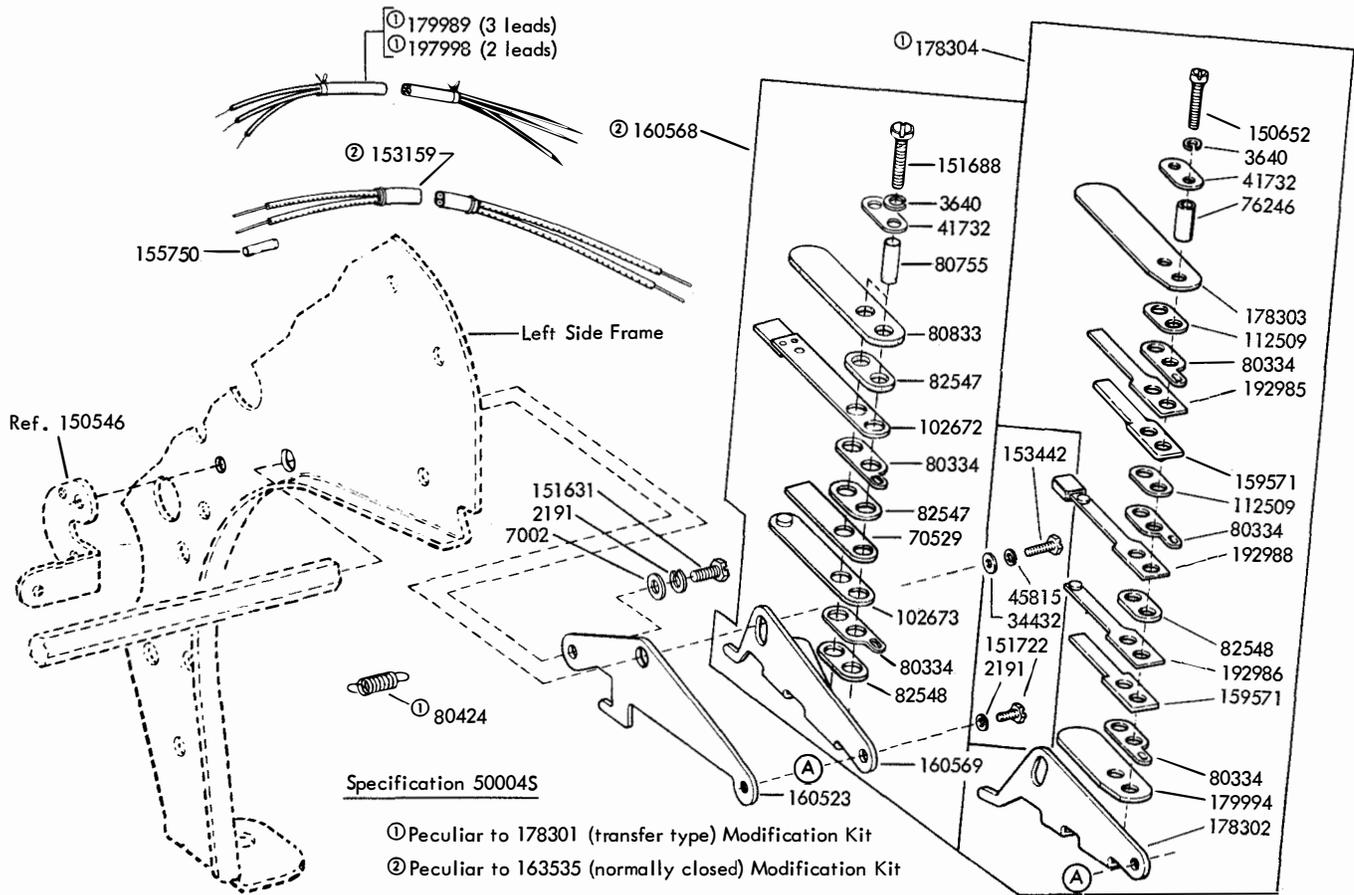
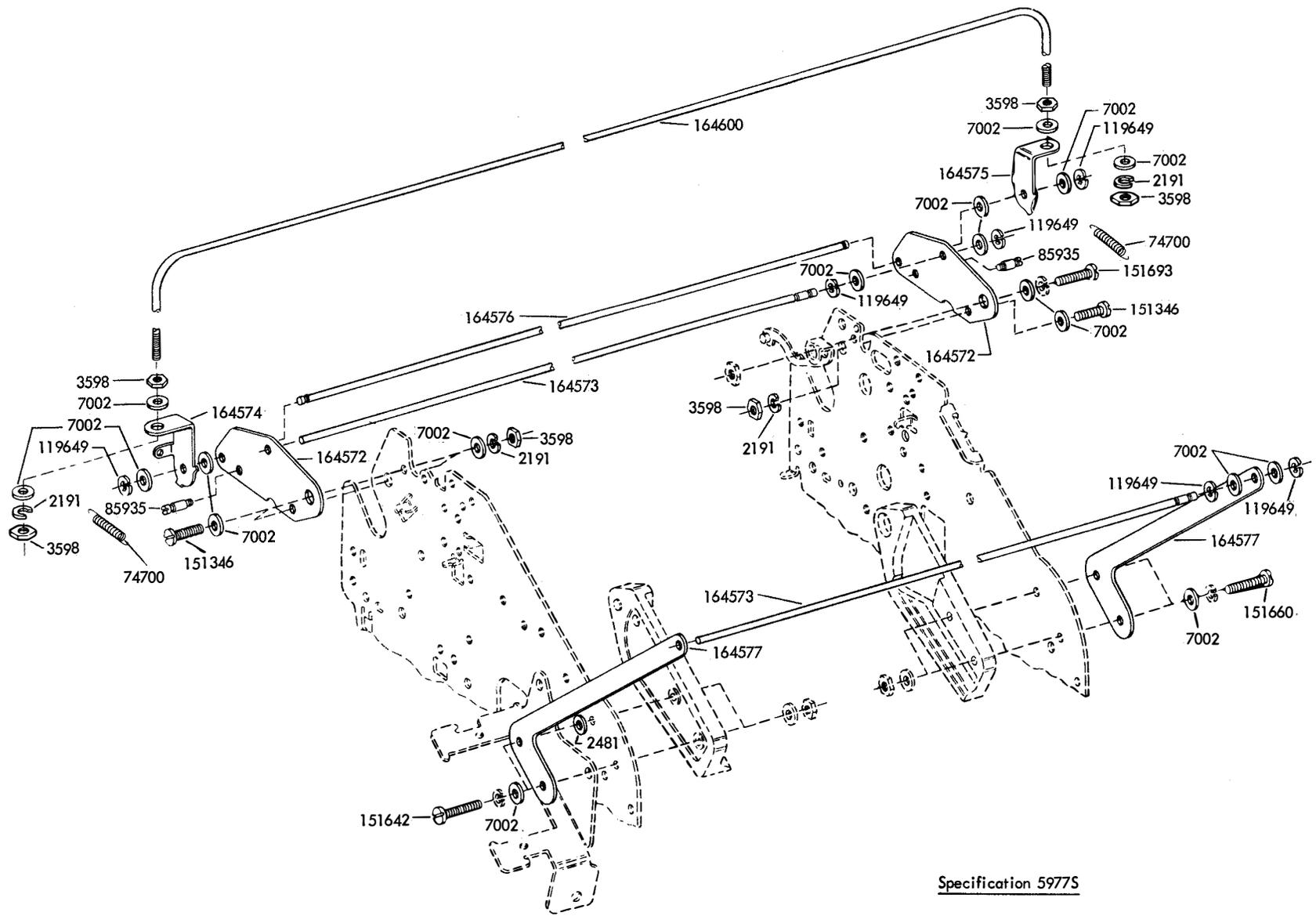


FIGURE 109. 163535 AND 178301 MODIFICATION KITS TO PROVIDE TRANSMITTER CONTROL FOR THE VERTICAL TABULATOR

FIGURE 110. 164270 MODIFICATION KIT TO PROVIDE COPY DISPLAY



Specification 59775

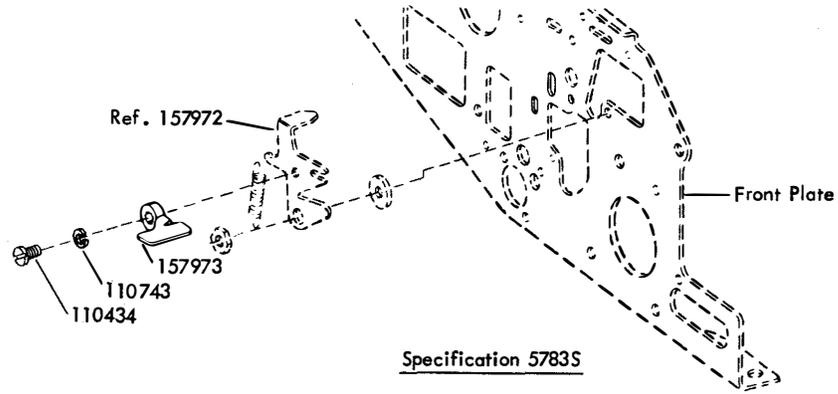


FIGURE 111. 157514 MODIFICATION KIT TO PROVIDE AUTOMATIC CARRIAGE RETURN AND LINE FEED

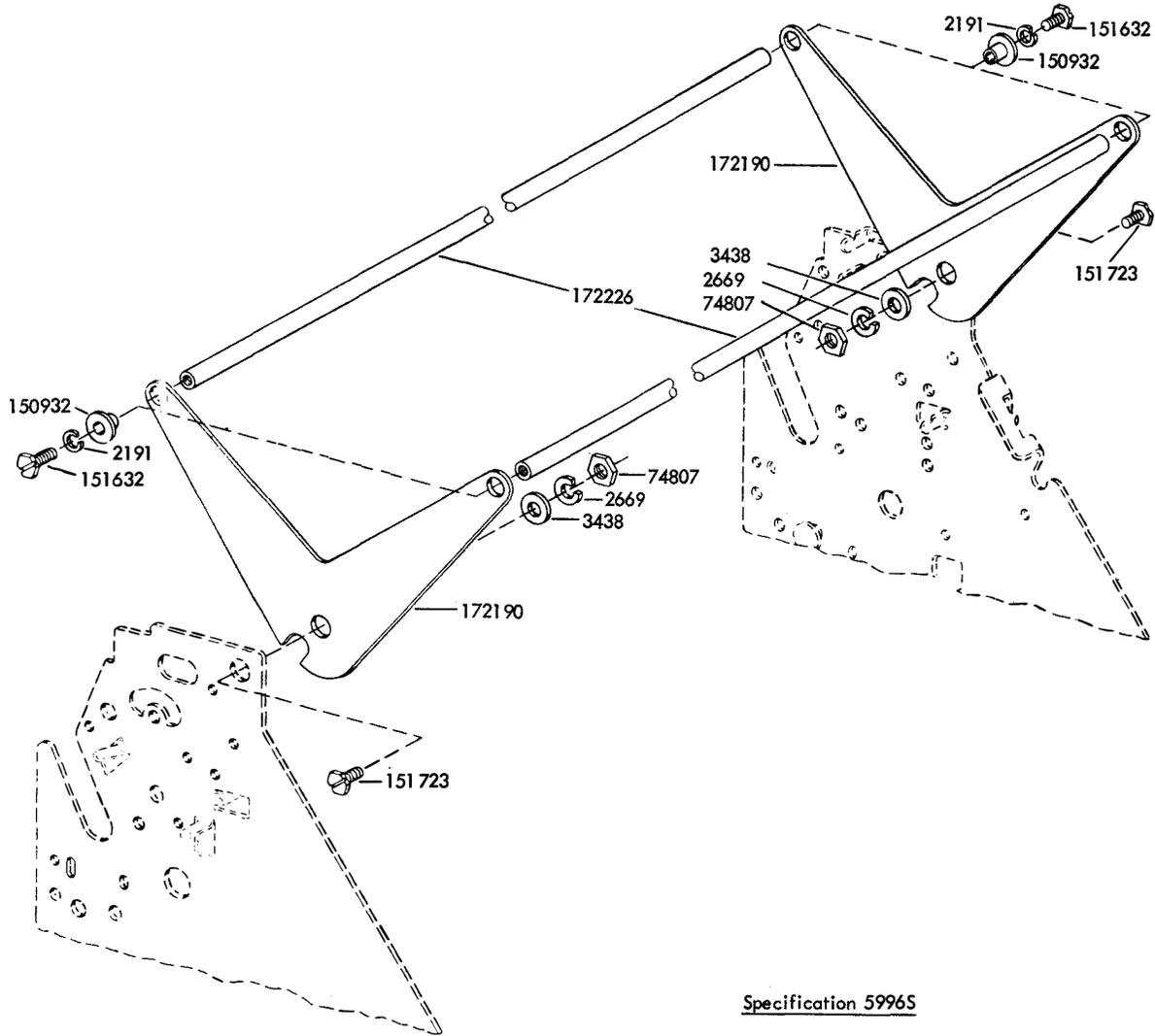
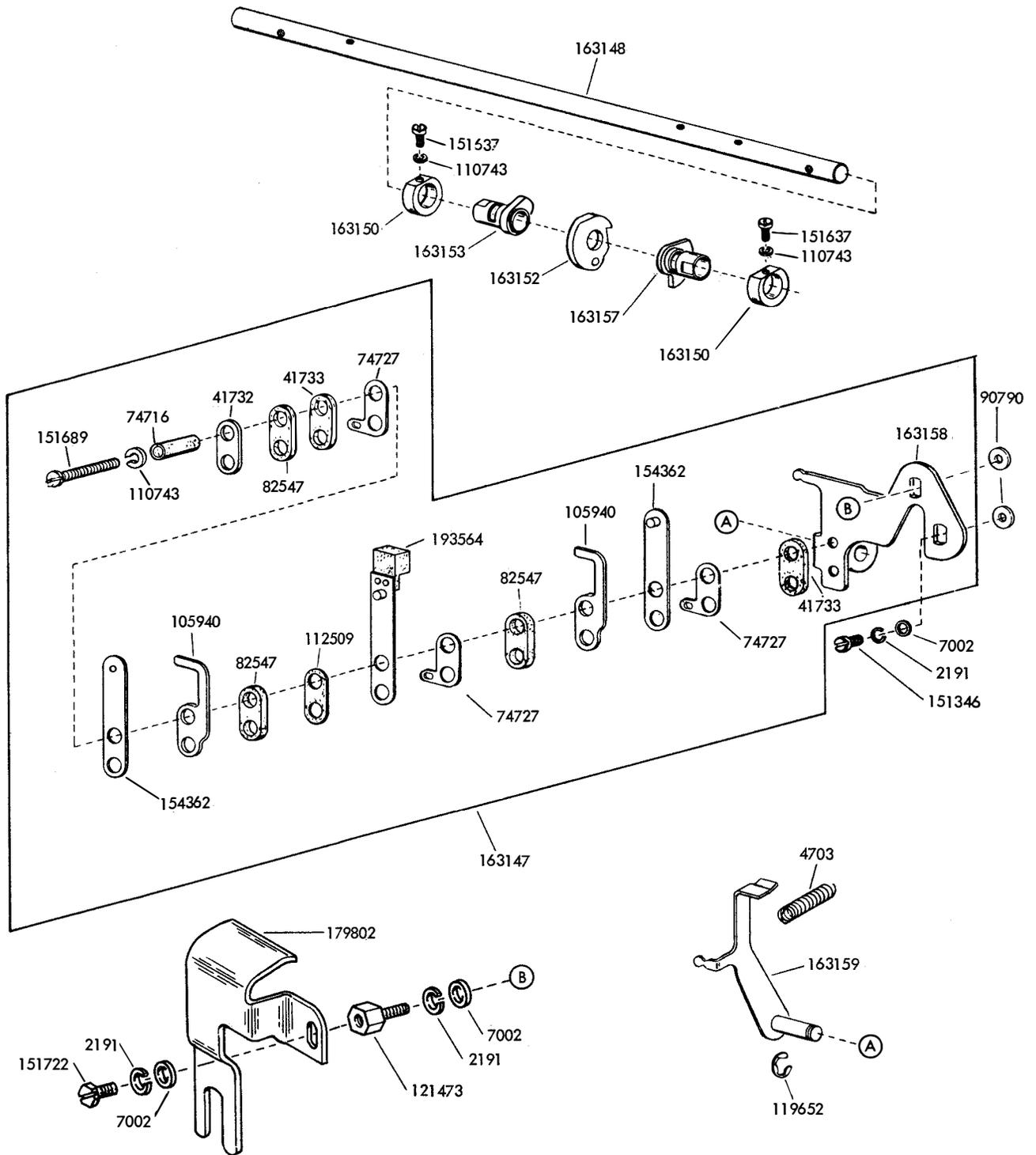


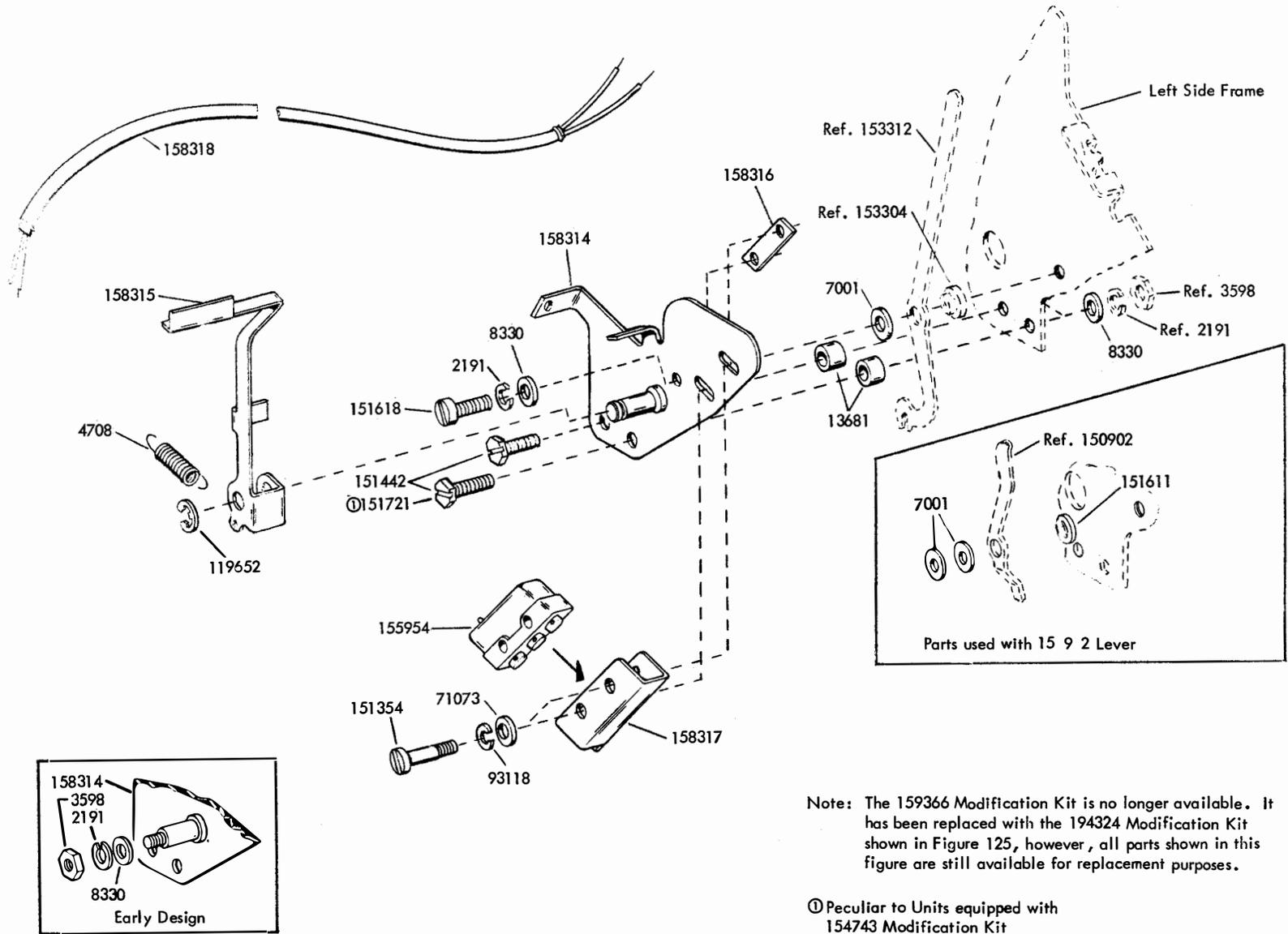
FIGURE 112. 172181 MODIFICATION KIT TO PROVIDE COPY DISPLAY



Specification 58045

FIGURE 113. 163146 MODIFICATION KIT TO PROVIDE UNIVERSAL CONTACT

FIGURE 114. 159366 MODIFICATION KIT TO PROVIDE A FRICTION FEED  
PRINTER WITH PAPER-OUT ALARM





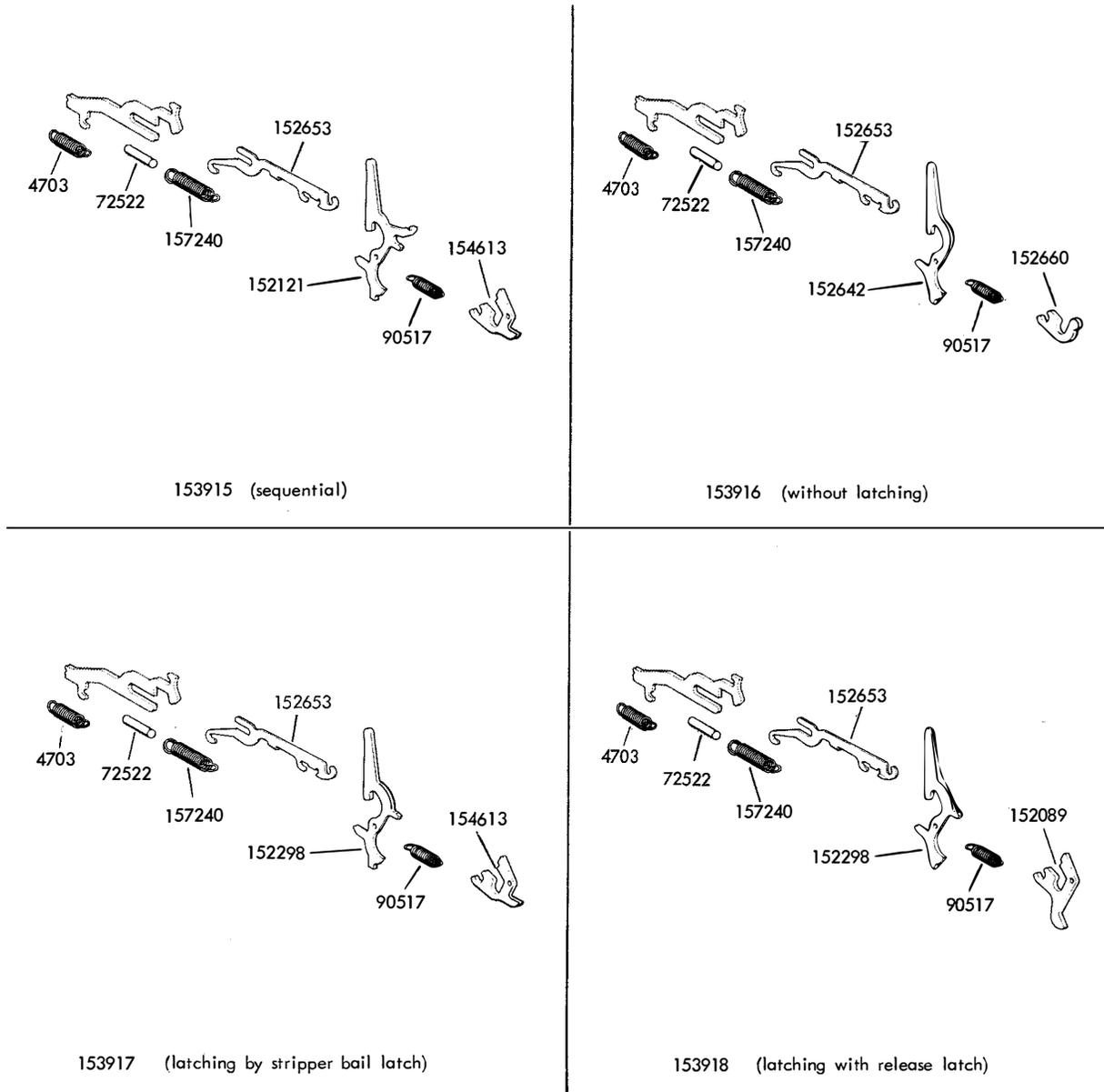
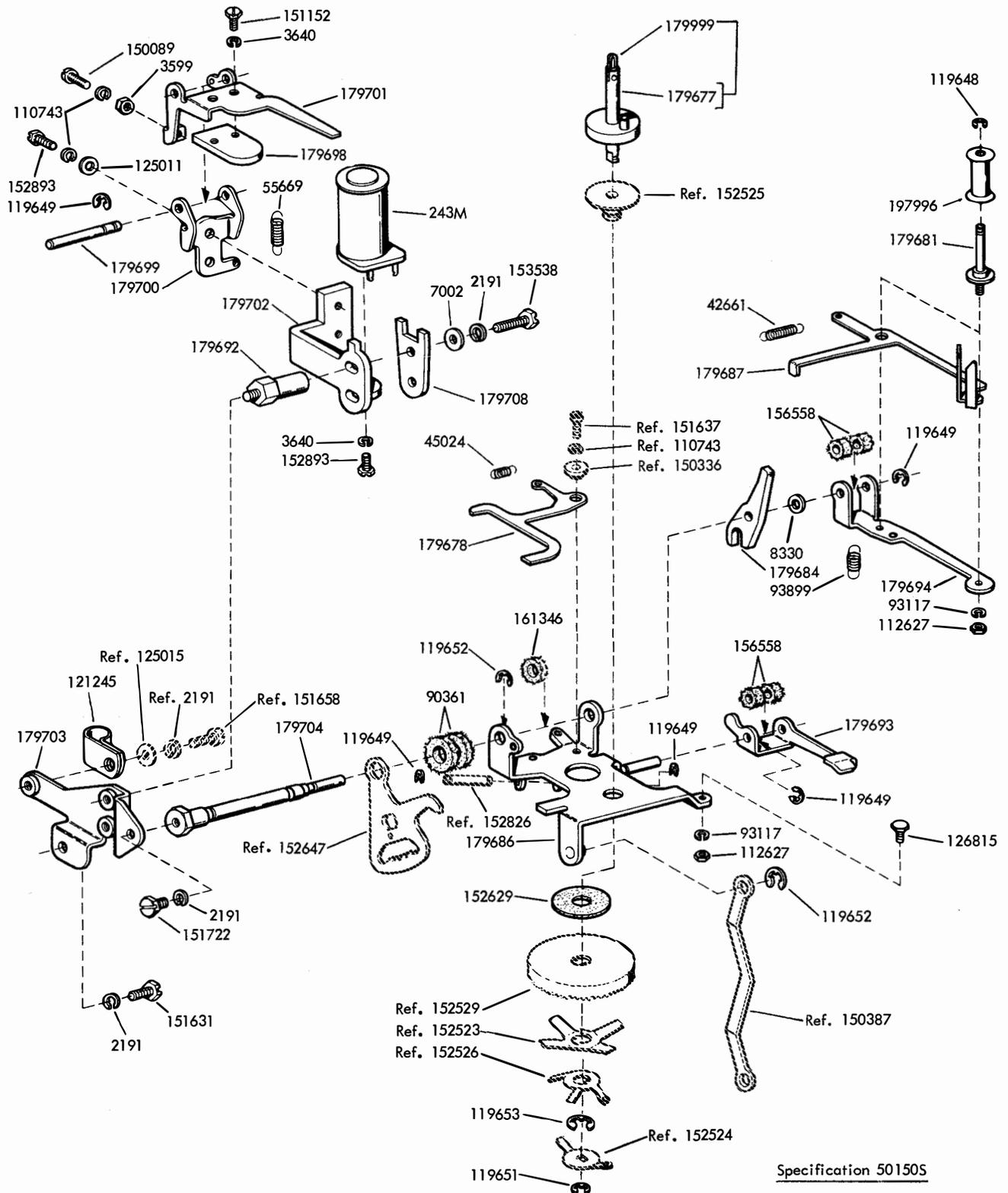


FIGURE 116. SELECTIVE CALLING FUNCTION LEVER MODIFICATION KITS



Specification 50150S

FIGURE 117. 179724 MODIFICATION KIT TO PROVIDE TWO COLOR RIBBON PRINTING - RIGHT SIDE (CONTINUED ON NEXT PAGE)

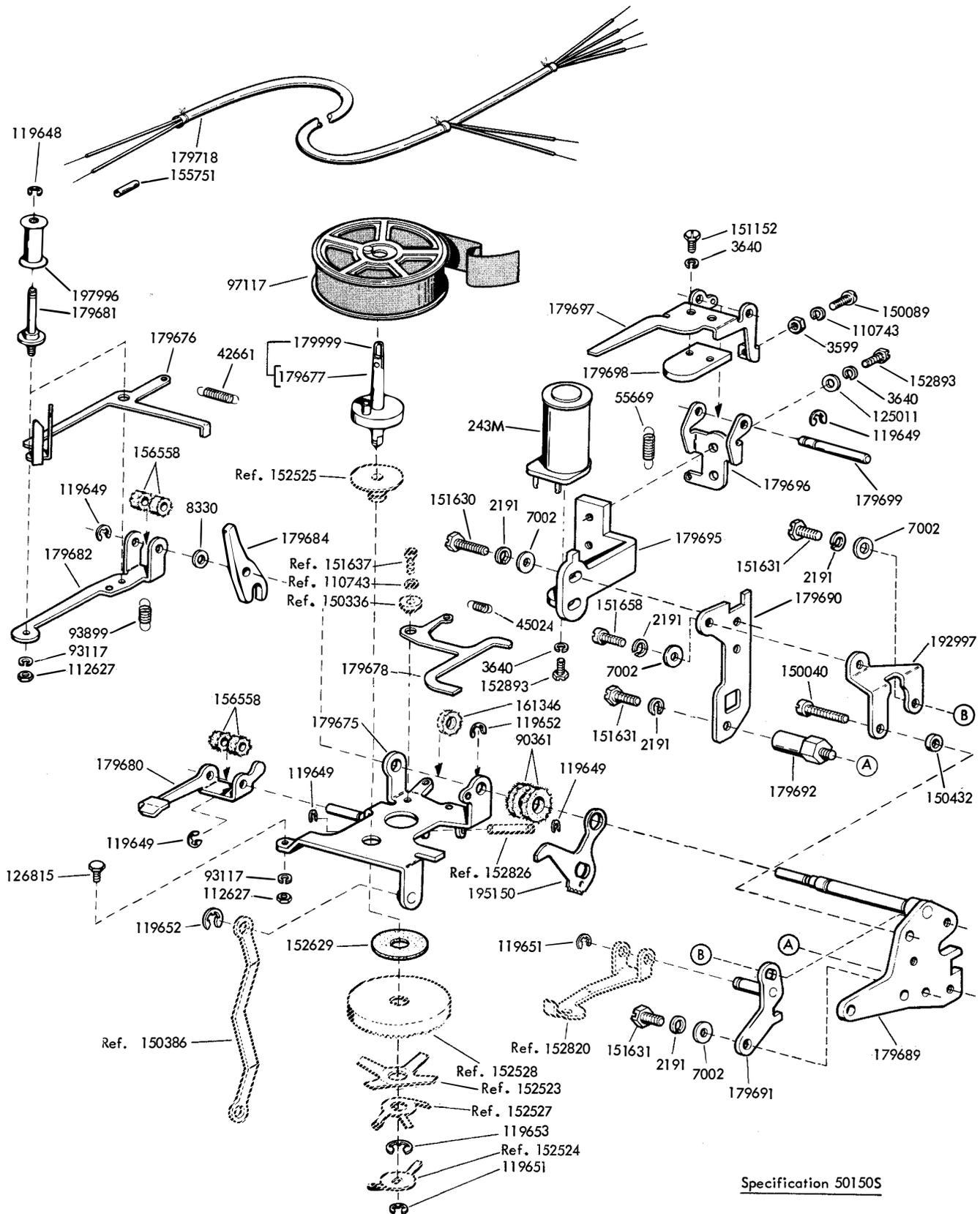
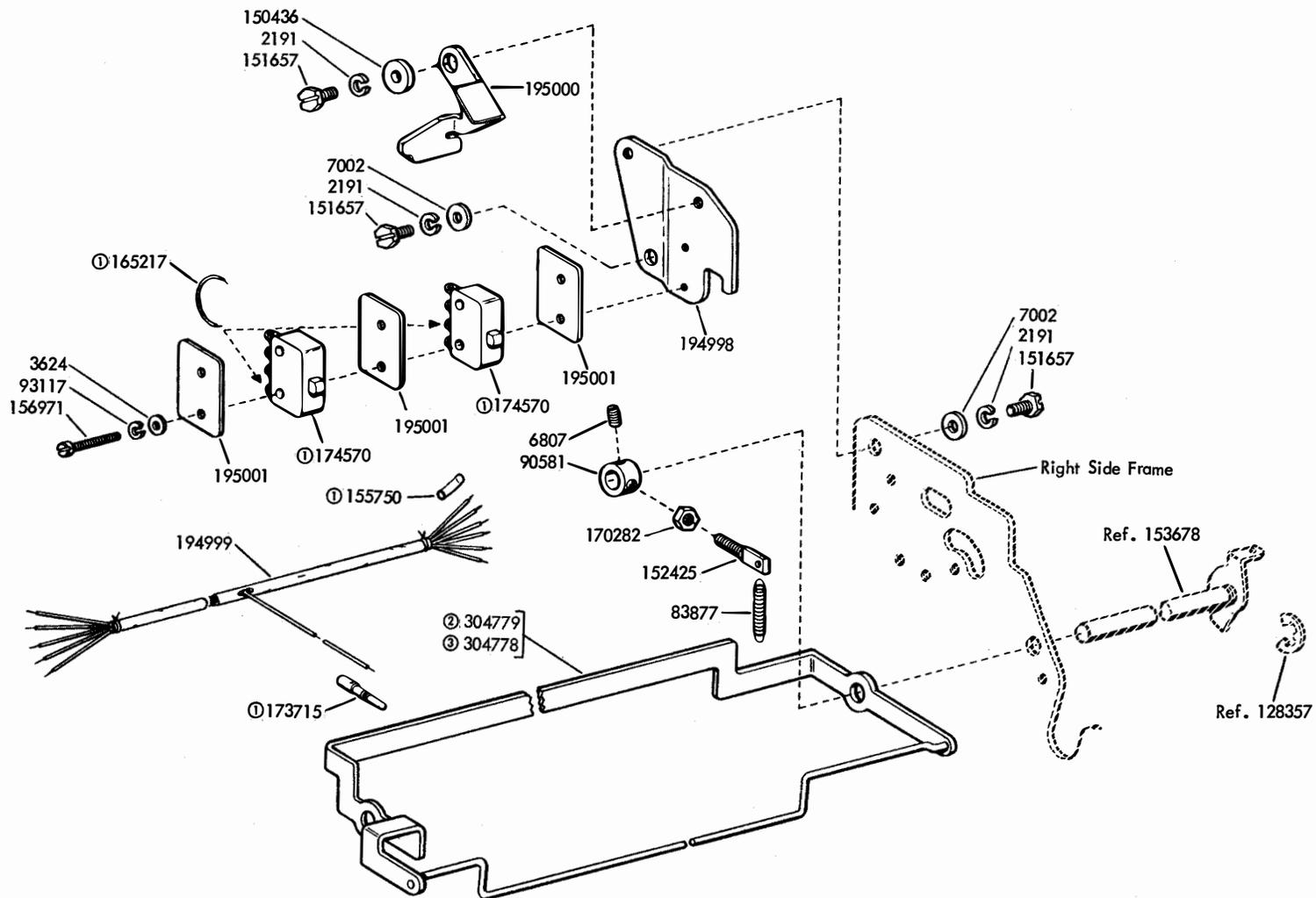


FIGURE 118. 179724 MODIFICATION KIT TO PROVIDE TWO COLOR RIBBON PRINTING - LEFT SIDE (CONTINUED FROM PRECEDING PAGE)

FIGURE 119. 194995 AND 199245 MODIFICATION KITS TO PROVIDE PAPER JAM ALARM



- ① Part of 194999 Cable Assembly
- ② Peculiar to 194995 Modification Kit (8-1/2" wide paper)
- ③ Peculiar to 199245 Modification Kit (6-1/4" wide paper)

Specification 501355

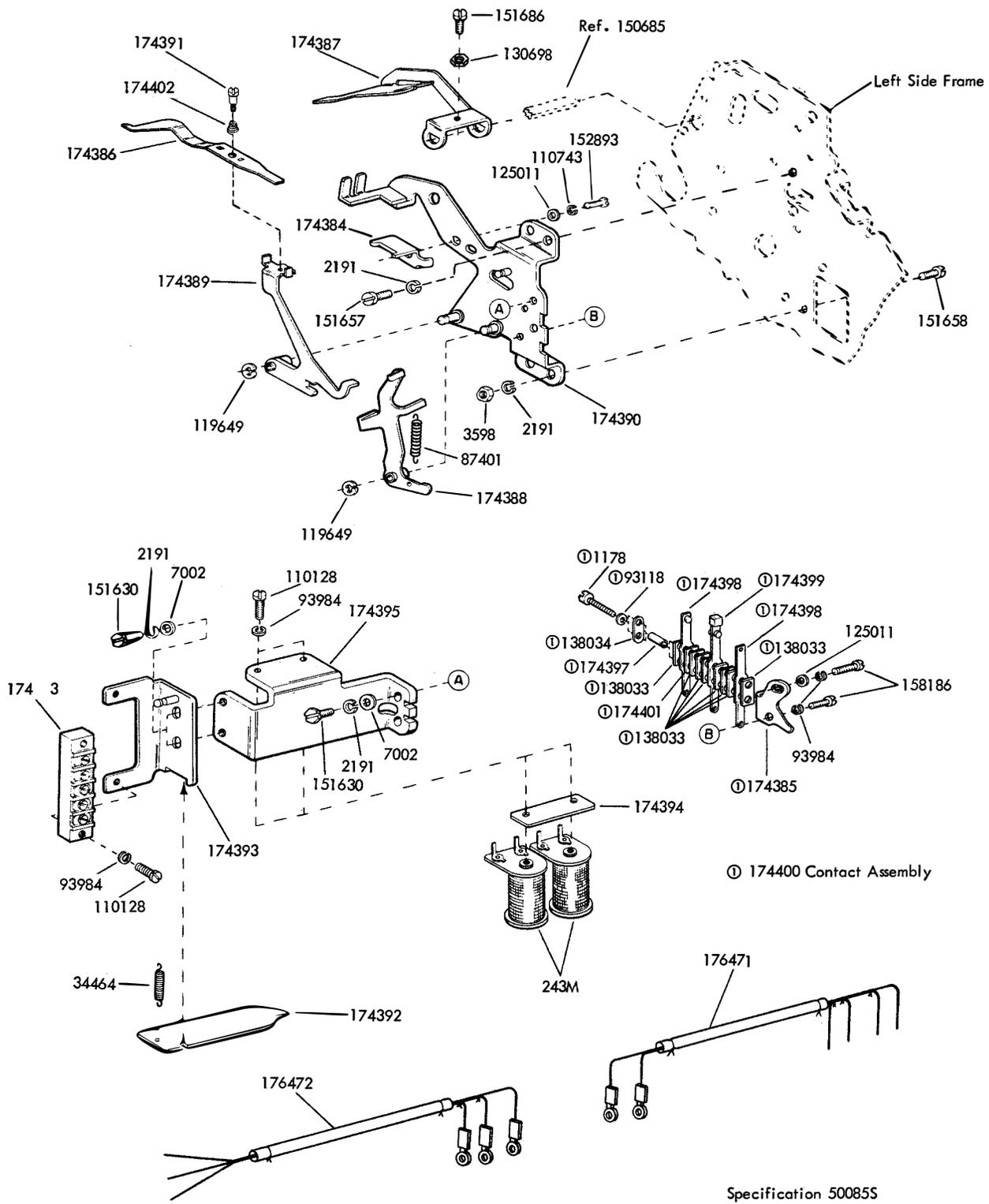
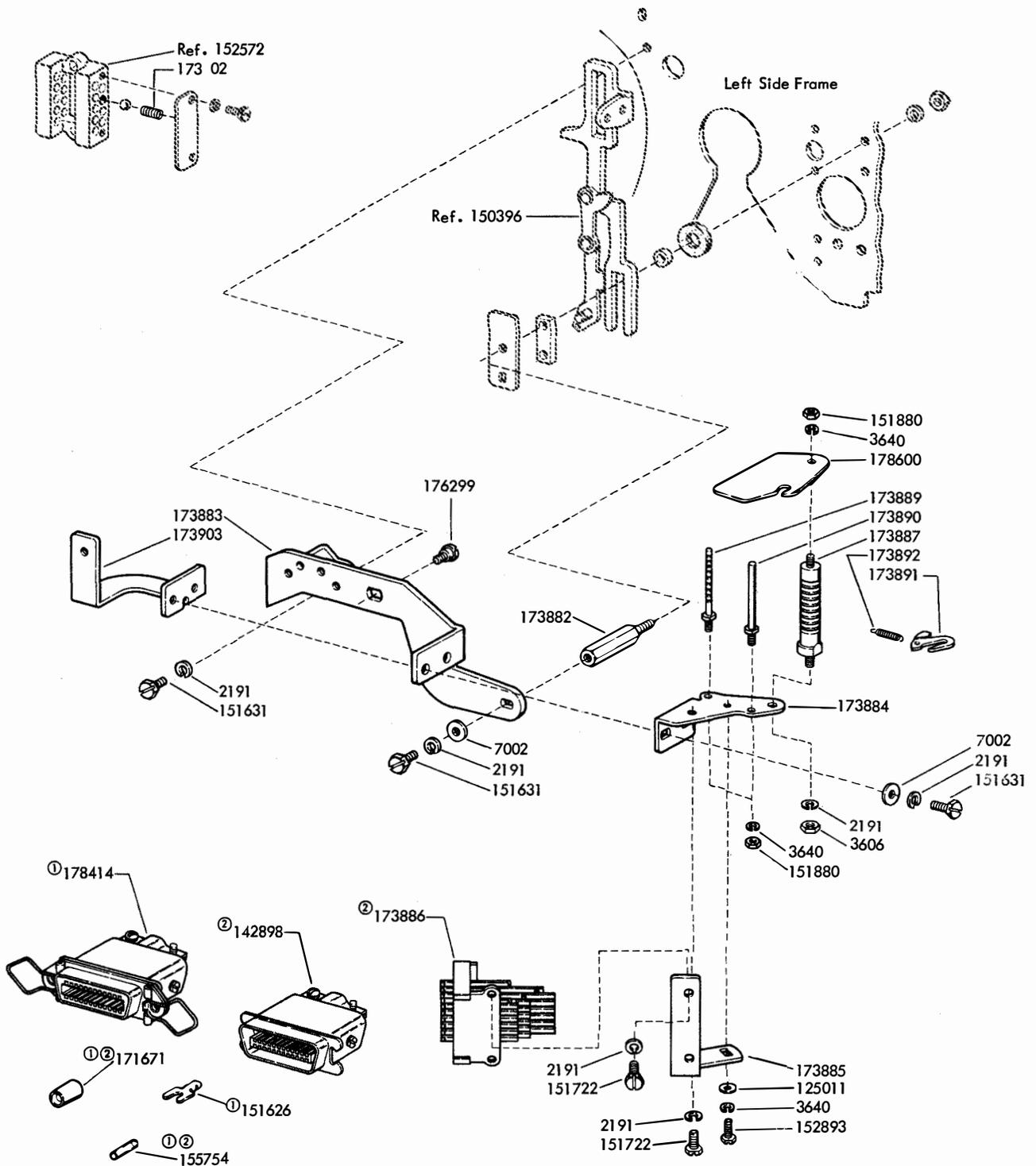


FIGURE 120. 174043 MODIFICATION KIT TO PROVIDE PAPER FEED FAILURE INDICATOR



① Part of 198655 Cable Assembly  
 ② Part of 198656 Cable Assembly

Note: The 198394 Modification Kit also includes the 163146 Modification Kit shown in Figure 113 and the 192566 and 192567 Link Assemblies shown in Figure 34.

Specification 50069S

FIGURE 121. 198394 MODIFICATION KIT TO PROVIDE UNIVERSAL CONTACTS



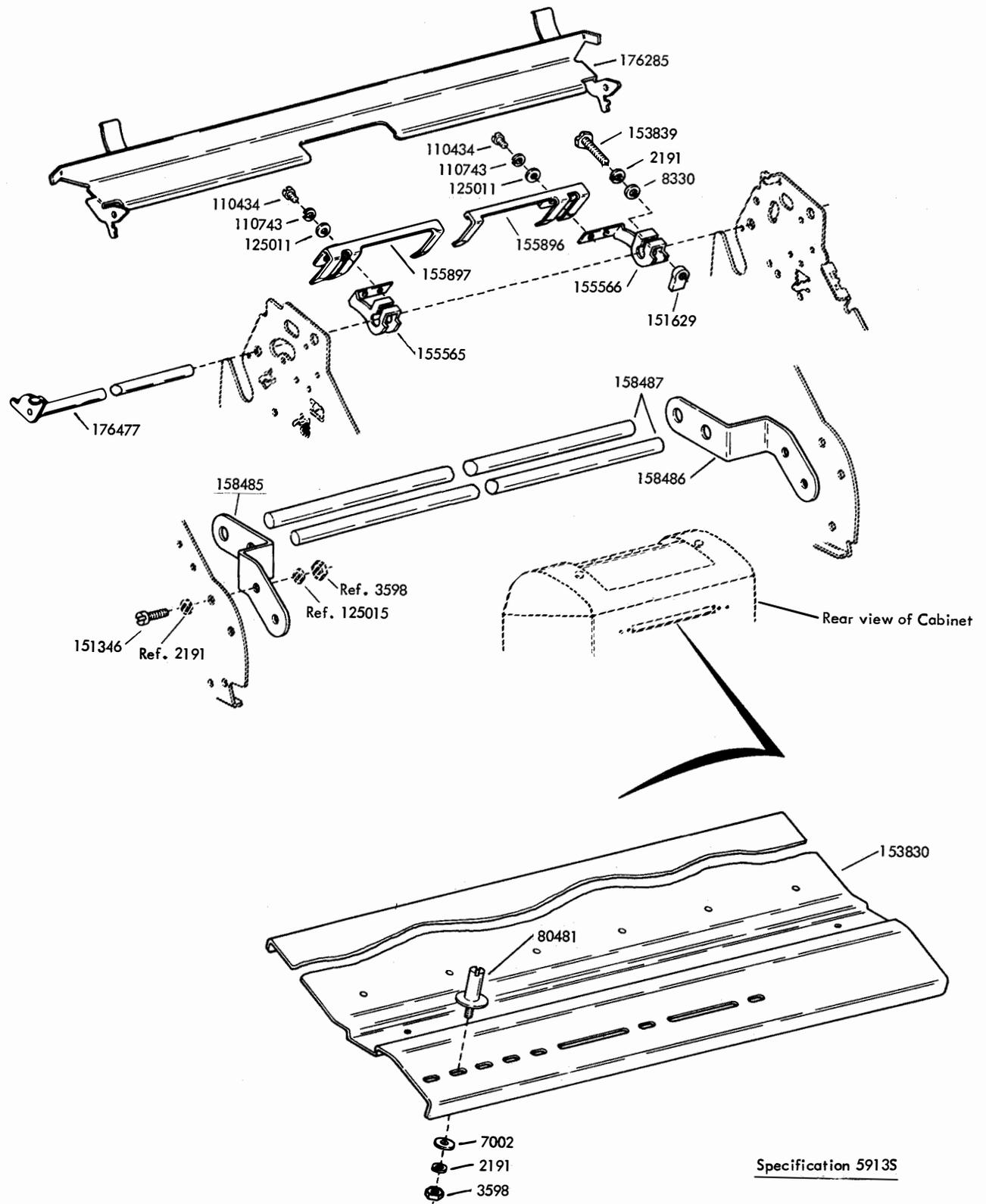
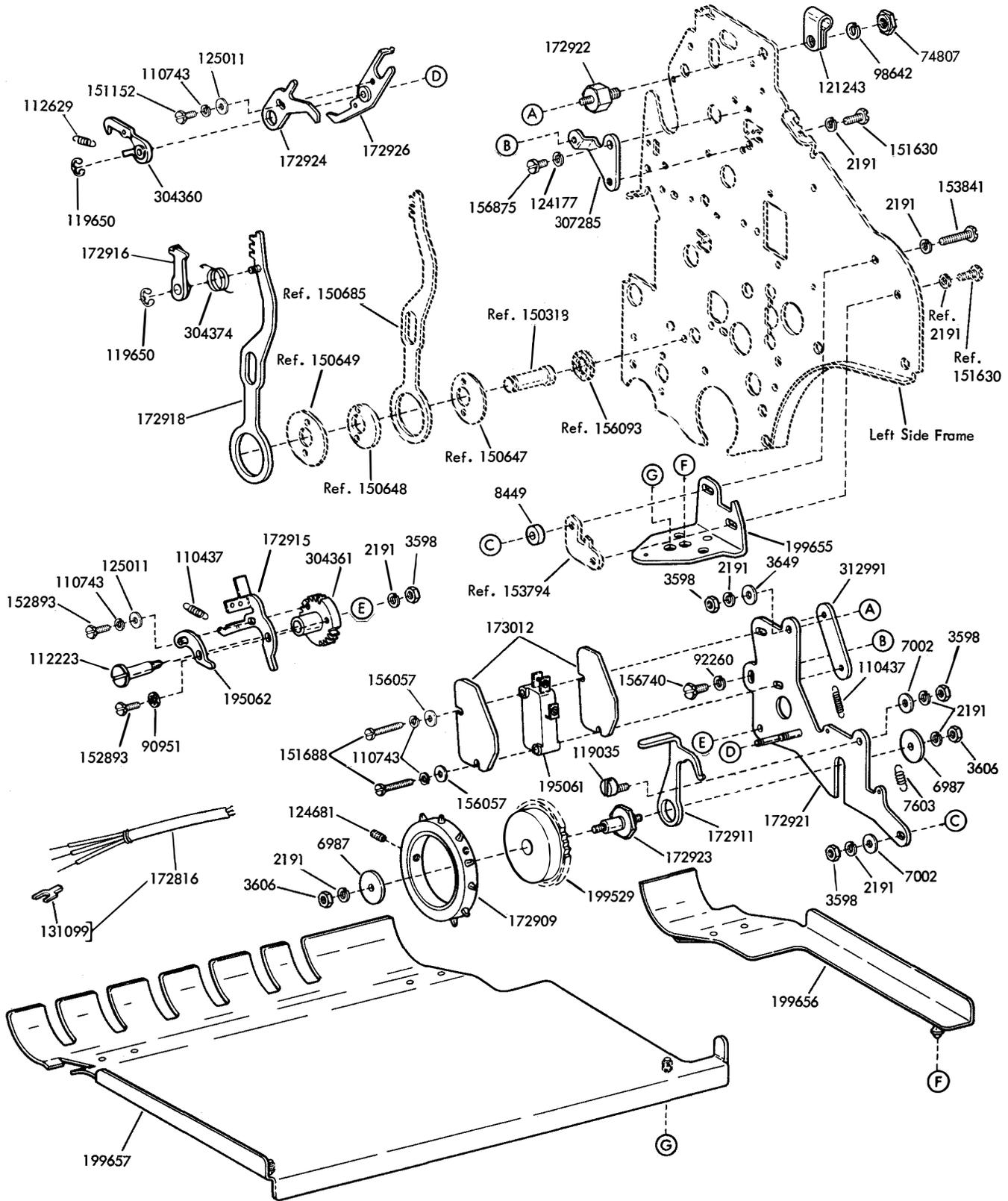
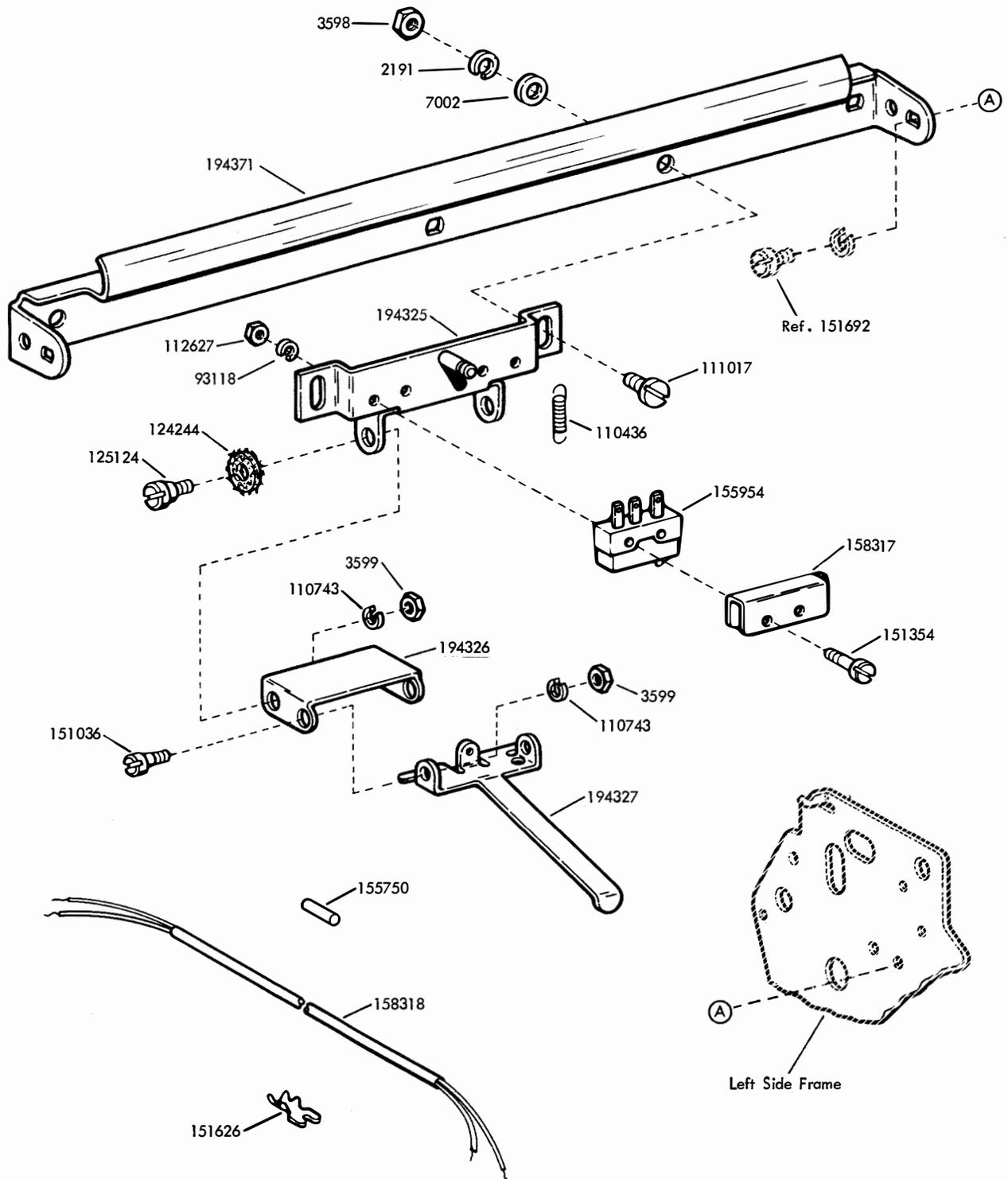


FIGURE 123. 154798 MODIFICATION KIT TO PROVIDE SUPERFOLD FRICTION FEED PAPER HANDLING



Specification 503285

FIGURE 124. 194092 MODIFICATION KIT TO PROVIDE PAPER MOTION ALARM



Specification 58885

FIGURE 125. 194324 MODIFICATION KIT TO PROVIDE A PAPER-OUT ALARM SWITCH

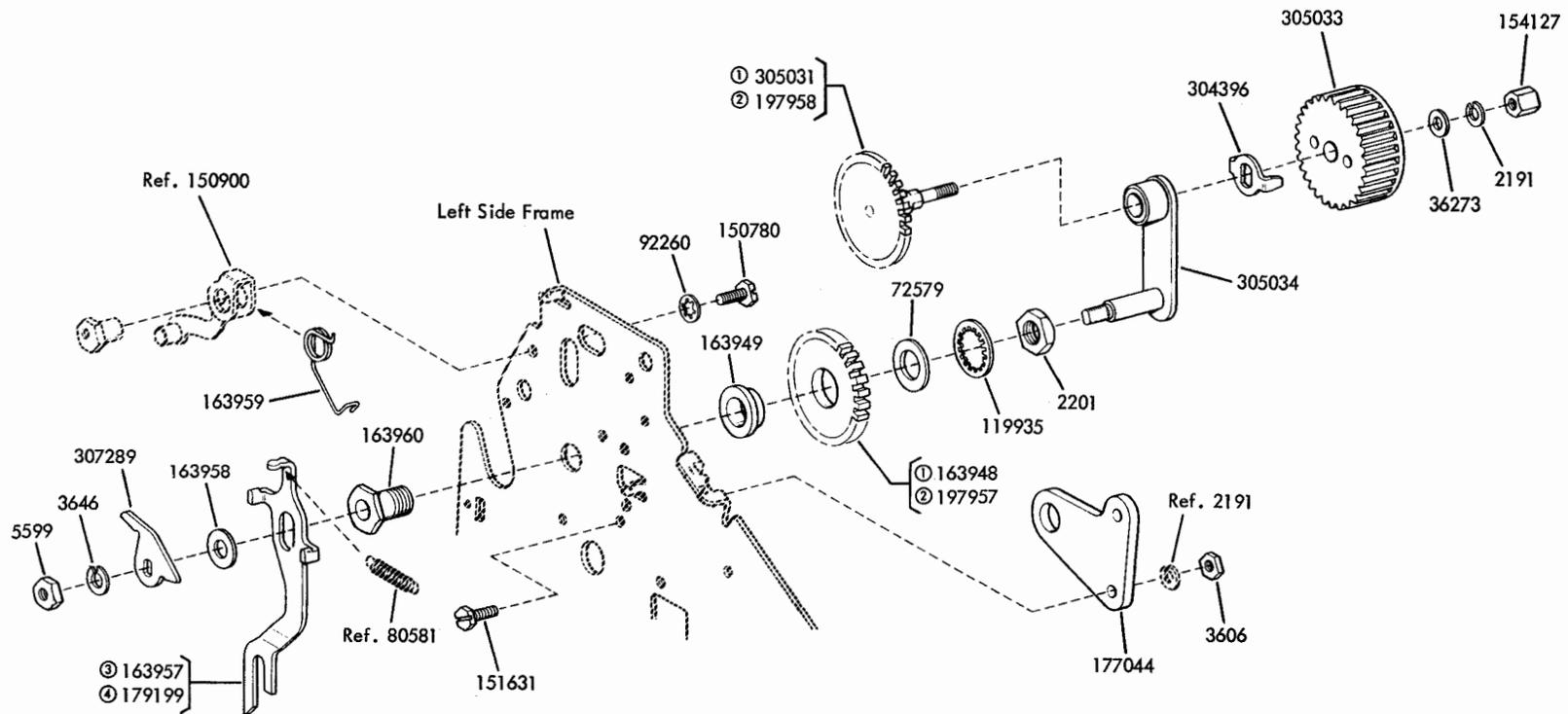


FIGURE 126. 305035, 305036 AND 307065 MODIFICATION KITS TO PROVIDE IMPROVED MANUAL PLATEN LINE FEED

- ① Part of 305035 and 305036 Modification Kits (3 or 6 line feeds per inch)
- ② Part of 307065 Modification Kit (4 or 8 line feeds per inch)
- ③ Black oxide coated - part of 305035 and 307065 Modification Kits (for Sprocket Feed Printers)
- ④ Nickel plated - part of 305036 Modification Kit (for Friction Feed Printers)

Specification 5949S

## NOTES OF EXPLANATION

- Note 1: (Figure 4) Parts shown in Figure 4 are peculiar to LP68.
- Note 2: (Figure 7) The 150098 Pressure Bail is no longer available. It has been replaced by a 157290 Pressure Bail. When replacing the 150098 with the 157290 Pressure Bail, two 150269 Rollers and four 150266 Guide Levers are removed. All other parts are available for maintenance.
- Note 3: (Figure 10) The 153317 Bearing Bracket is no longer available. It has been replaced by a 157990 Bearing Bracket, a 157991 Stud, a 2669 Lock Washer and a 112626 Screw.
- Note 4: (Figures 11 and 13) Parts shown in Figures 11 and 13 are peculiar to LP98.
- Note 5: (Figure 16) The 153560 Cam Shaft is no longer available. It has been replaced by a 154789 Modification Kit to replace the 153560 Cam Shaft and associated parts (see Figure 14 for components).
- Note 6: (Figure 16) The 153573 Bail has been redesigned but retains its original number (see Figure 14 for late design).
- Note 7: (Figure 17) The 153700 Platen Hub has been replaced by a new 154358 Platen Hub. The 153751 through 153767 Rubber Platens have been replaced by new 176221 through 176237 Rubber Platens. The new platen hub may be identified by ① a rectangular groove in the platen locating diameter of the hub (for a neoprene "O" ring) and ② a shoulder to act as a stop for the platen. The early design rubber platen has ① formed lugs to position the platen against the hub and ② the inside diameter is increased at each end to fit the platen hub. The new rubber platen has no positioning lugs and the inside diameter is uniform from end to end. The old style rubber platens can be used with the new hubs, but the new rubber platens cannot be used with the old style hubs.
- Note 8: (Figure 22) Since the type box alignment cannot be adjusted, the 152502 Type Box Carriage Plate is no longer available. It has been replaced by a 152502 Modification Kit to provide Type Box Alignment (See Figure 21 for components).
- Note 9: (Figure 28) The 154625 Space Suppression Ring is used on LP6, LP7, LP8 and LP9.
- Note 10: (Figure 31) The 150953 Slide Assembly is no longer available. It has been replaced by a 153183 Slide Assembly and a 153946 Modification Kit to provide improved Horizontal Positioning Knee Link Assembly (see Figures 30 and 34 for components).
- Note 11: (Figure 31) The 150531 Clamp Plate is no longer available. It has been replaced by a 164316 Clamp Plate (shown in Figure 30).
- Note 12: (Figure 32) The 3649 Flat Washer and 153884 Gear are used on LP8.
- Note 13: (Figure 32) The 150438 Bellcrank is used on LP3 and LP8.
- Note 14: (Figure 35) The 152569 and 152570 Shift Slide Drive Linkages are no longer available. They are replaced by a 153946 Modification Kit to provide improved Horizontal Positioning Knee Link Assembly (see Figure 34 for components).
- Note 15: (Figure 35) The 150757 Arm is no longer available. It has been replaced by a 170079 Arm.
- Note 16: (Figure 41) The 152434 Plate is no longer available. It has been replaced by a 153904 Modification Kit to provide improved Range Scale Sector Mounting (see Figure 39 for components).
- Note 17: (Figure 41) The 153491 Plate is no longer available. It has been replaced by a 154723 Modification Kit to provide improved Range Scale Sector Mounting (see Figure 39 for components).
- Note 18: (Figure 41) The 152439 Shaft is no longer available. It has been replaced by a 157261 Shaft and a 119648 Retaining Ring.
- Note 19: (Figure 42) Parts shown enclosed are peculiar to LP94.
- Note 20: (Figure 44) The 152413 Magnet Bracket is no longer available. It has been replaced by a 164386 Magnet Bracket.
- Note 21: (Figure 44) The 152422 Armature is no longer available. It has been replaced by a 160180 Armature.
- Note 22: (Figure 44) The 152424 Stop Plate is no longer available. It has been replaced by a 160184 Stop Plate.
- Note 23: (Figure 48) The 152554 Code Bar is used on LP3.
- Note 24: (Figure 48) The 150285 Tie Bar and the 152721 Code Bar are used on LP3, LP4, LP5 and LP7.
- Note 25: (Figure 50) The old 152560 Pallet Box Rear Plate previously shown is no longer available. It is replaced by the 194054 Set of Parts consisting of a Front Plate and Rear Plate shown in Figure 50. The new plates are identified by a letter "X" stamped in the top center of each plate between the "LTRS" and "FIGS" stamping. The "X" is omitted on the old plates. New and old style plates are interchangeable in pairs only. The old 154616 Pallet Box Front Plate previously shown is still available for replacement purposes.
- Note 26: (Figure 51) The old and new style type boxes may be identified by the depth of the Pallet Box Front Plate (new style being shallower). The old style pallets cannot be used in the new style type boxes. New style pallets can be used in either new or old style type boxes. The old style 150077 Pallet Spring is no longer available and is replaced by a new style 157238 Pallet Spring. Only the new style spring can be used universally with either the new or old style typepallets and typeboxes. However, the old style springs can be used with the new style pallets in an old style type box. The old and new style pallets may be identified by the length of the shank from the rear of the pallet head to the far end of the elongated hole. (The old style being the longer — See Figures 50 and 51).
- Note 27: (Figure 60) The switch assemblies shown in Figure 60 are no longer available. They have been replaced by new style switch assemblies shown in Figure 59. The replacements are as follows: The 155917 through 155924 Switch Assemblies have been replaced by 172600 through 172608 Switch Assemblies respectively. The 157070 through 157100 Switch Assemblies have been replaced by 172500 through 172530 Switch Assemblies respectively. The 160192 through 160197

## NOTES OF EXPLANATION (continued)

Switch Assemblies have been replaced by 172531 through 172536 Switch Assemblies respectively. The 160198 Switch Assembly has been replaced by a 172534 Switch Assembly. The 160199 through 160218 Switch Assemblies have been replaced by 172538 through 172557 Switch Assemblies respectively. The 160219 Switch Assembly has been replaced by a 172560 Switch Assembly. The 160220 Switch Assembly has been replaced by a 172559 Switch Assembly.

Note 28: (Figure 86) The 153701 through 153717 Modification Kits are no longer available. They have been replaced by 176181 through 176197 Modification Kits respectively; However, the parts remain the same with the exception of the 153751 through 153767 Platens which have been replaced by the new 176221 through 176237 Platens respectively. The old style 153751 through 153767 Platens are still available for replacement purposes (see Figure 17 and Note 7).

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
190M	Coil, Magnet 97	7603	Spring 29, 33, 112	74882	Spring 24
209M	Coil, Magnet 90	7655	Spring 71, 110	74891	Shim (.004" Thk) 97
233M	Coil, Magnet 14	7656	Spring 103	75229	Spring 35, 87
243M	Coil, Magnet 105, 106, 108	7835	Ribbon w/Spool (Black) 49	75607	Washer, Flat 83
250M	Coil, Magnet 47	7965	Spring 13, 79	76081	Washer, Flat 46
254M	Coil, Magnet 45	8330	Washer, Flat 4, 20, 29, 32, 39, 42, 52, 77, 78, 92, 102, 105, 106, 111	76099	Washer, Flat 46
290M	Coil, Magnet 15			76246	Bushing, Insulating 98
1010	Screw, Shoulder (6-40) 6			76249	Screw (6-40 x 1/8 Fil) 12
1028	Screw (4-40 x 1/4 Fil) 14, 97	8449	Spacer (.094" Thk) 29, 49, 112	76379	Spring 22
1041	Screw, Shoulder (6-40) 83	13681	Spacer (.187" Thk) 4, 102	76461	Washer, Flat 33
1164	Screw (2-56 x 3/16 Fil) 25	21397	Washer, Spring 68, 89	76474	Nut (10-32 Hex) 103
1178	Screw (2-56 x 7/16 Fil) 108	22015	Spring 49	76800	Spring 20
1196	Screw, Shoulder (6-40) 18	27425	Screw (2-56 x 5/32 Fil) 24	78533	Spring 42
1214	Screw, Set (10-32) 35	31636	Spring 50, 75	79012	Insulator 46
1272	Screw (6-40 x 11/16 Fil) 86	33038	Spring 11, 71, 103	79449	Shim (.008" Thk) 36
1293	Screw (4-40 x 1/8 Fil) 49	33828	Spring 22, 24, 37	80310	Washer, Felt 31
2034	Washer, Flat 40, 42	34432	Washer, Flat 50, 69, 74, 91, 98	80334	Terminal, Contact 69, 98, 110
2191	Washer, Lock 4, 5, 7, 9, 11 to 27, 29, 31, 32, 33, 35 to 40, 42, 44, 45, 46, 48 to 52, 59, 60, 68, 69, 71, 72, 74 to 80, 82, 83, 86, 89, 90, 92, 93, 95, 97 to 103, 105 to 114	34464	Spring 108	80342	Screw (6-40 x 23/64 Hex) 59, 92
		35826	Washer, Flat 16, 68, 89	80424	Spring 98
		36273	Washer, Flat 7, 37, 114	80481	Screw (6-40 Spl) 111
		36463	Spring 37	80581	Spring 11, 21, 35, 36, 85, 98, 114
		41382	Spring 42, 89	80708	Clamp, Cable 15, 69, 74, 78, 90
2201	Nut (5/16-32 Hex) 7, 98, 114	41675	Washer, Flat 71, 93	80755	Bushing, Insulating 91, 98
2422	Washer, Lock 16, 69	41720	Spring, Contact 69	80833	Guard, Contact Spring 98
2438	Washer, Flat 14, 45, 97	41732	Plate, Clamp 69, 91, 98, 101	80848	Spring 20
2481	Washer, Flat 18, 99, 103, 110	41733	Insulator (.062" Thk) 69, 101	81731	Spring 35, 80, 87
2539	Nut (3/8-32 Hex) 17, 29, 77	42661	Spring 16, 48, 49, 68, 105, 106	81778	Screw (4-40 x 3/16 Fil) 45
2669	Washer, Lock 4, 11, 15, 16, 17, 22, 24, 31, 35, 42, 68, 89, 90, 92, 100, 103, 115	42823	Washer, Flat 16, 26, 27, 70	82442	Spring 11
		42827	Screw (3-48 x 1/4 Fil) 50	82463	Spring 11, 12, 48, 49, 71, 93
		45024	Spring 105, 106	82547	Insulator (.094" Thk) 69, 91, 98, 101, 110
2836	Spring 12	45027	Spring 35		
3438	Washer, Flat 36, 86, 100	45815	Washer, Lock 98	82548	Insulator (.062" Thk) 69, 91, 98, 110
3598	Nut (6-40 Hex) 4, 6, 7, 9, 11, 12, 15 to 19, 21 to 27, 29, 33, 35, 37 to 40, 42, 45, 52, 68, 71, 72, 74, 77, 79, 83, 86, 89, 93, 96, 98, 99, 102, 103, 108, 110 to 113	49420	Spring 52	82860	Spring 83
		55063	Spring 20	82999	Spring 15, 90
		55669	Spring 105, 106	83877	Spring 107
3599	Nut (4-40 Hex) 7, 9, 15, 29, 33, 35, 37, 42, 44, 45, 49, 60, 61, 74, 77, 90, 91, 105, 106, 113	70072	Washer, Lock 91	84575	Spring 11, 34
		70388	Spring 29, 60, 78	84598	Spring, Contact 69
		70529	Stiffener 98	84758	Spring .71, 93
3606	Nut (6-40 Hex) 41, 44, 59, 98, 109, 112, 114	70886	Washer, Flat 12	84892	Stiffener 69, 110
		71047	Washer, Flat 68, 89	85407	Spring, Compression 73
3624	Washer, Flat 107	71073	Washer, Flat 102	85816	Wick, Felt 33
3640	Washer, Lock 11, 12, 33, 40, 98, 105, 106, 109	71681	Spool, Ribbon 48	85935	Post, Spring 99
		72254	Washer, Flat 93	86079	Washer, Felt 83
3646	Washer, Lock 7, 98, 114	72468	Spring 9	86304	Spring 11
3649	Washer, Flat 35, 39, 112, 115	72522	Wick, Felt 61, 68, 72, 89, 96, 104	86835	Spring 37, 45, 74, 79
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