

**Please do not upload this copyright pdf document to any other website. Breach of copyright may result in a criminal conviction.**

This Acrobat document was generated by me, Colin Hinson, from a document held by me. It is presented here (for free) and this pdf version of the document is my copyright in much the same way as a photograph would be. If you believe the document to be under other copyright, please contact me. The Teletype Corporation, originally part of Western Electrics, ceased in 1990, whilst part of AT&T.

The document should have been downloaded from my website <https://blunham.com/Radar>, or any mirror site named on that site. If you downloaded it from elsewhere, please let me know (particularly if you were charged for it). You can contact me via my Genuki email page: <https://www.genuki.org.uk/big/eng/YKS/various?recipient=colin>

**You may not copy the file for onward transmission of the data nor attempt to make monetary gain by the use of these files. If you want someone else to have a copy of the file, point them at the website. (<https://blunham.com/Radar>). Please do not point them at the file itself as it may move or the site may be updated.**

It should be noted that most of the pages are identifiable as having been processed by me.

---

I put a lot of time into producing these files which is why you are met with this page when you open the file.

In order to generate this file, I need to scan the pages, split the double pages and remove any edge marks such as punch holes, clean up the pages, set the relevant pages to be all the same size and alignment. I then run Omnipage (OCR) to generate the searchable text and then generate the pdf file.

Hopefully after all that, I end up with a presentable file. If you find missing pages, pages in the wrong order, anything else wrong with the file or simply want to make a comment, please drop me a line (see above).

It is my hope that you find the file of use to you personally – I know that I would have liked to have found some of these files years ago – they would have saved me a lot of time !

Colin Hinson

In the village of Blunham, Bedfordshire.

BULLETIN 1187B

35 AUTOMATIC SEND-RECEIVE SET  
(ASR)

PARTS



**TELETYPE<sup>®</sup>**  
CORPORATION  
5555 TOUHY AVENUE, SKOKIE, ILLINOIS

**TELETYPE CORPORATION**  
Skokie, Illinois, U.S.A.

**35 TYPING UNIT (LP)**

**PARTS**

TABLE OF CONTENTS

SECTION	TITLE	ISSUE	DATE
574-220-800TC	35 Typing Unit (LP)	3	June 1969
574-222-800TC	35 Automatic Send-Receive Keyboard (LAK)	2	August 1968
574-223-800TC	35 Transmitter Distributor Base (LCXB)	2	August 1968
574-224-800TC	35 Nontyping Reperforator (LRPE)	2	August 1968
574-226-801TC	35 Electrical Service Unit (LESU) for ASR	*3	December 1969
574-227-800TC	35 Call Control Unit (LCCU)	2	August 1968
574-228-800TC	35 Automatic Send-Receive Cabinet (LAAC)	3	June 1969
574-236-800TC	35 Transmitter (LX)	1	February 1969

NOTE:

For Motors refer to Bulletin 295B

\* Indicates revised section

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Right and Left Side Frames (Wall Mounted)	3	45	Left Side-Ribbon Feed Mechanism For Two Color Ribbon Printing (Continued From preceding page)	47
2	Right Side Frame	4	46	152340 Modification Kit to Provide Multi-Copy Paper Handling	48
3	Left Side Frame	5	47	154771 Modification Kit to Provide Vertical Tabulation	49
4	Pressure Roller Mechanism	6	48	154798 Modification Kit to Provide Superfold Friction Feed Paper Handling	50
5	Paper Spindle and Reset Bail Mechanism	7	49	157511 Modification Kit to Provide Local Reverse Line Feed	51
6	Sprocket Feed Platen Mechanism	8	50	194324 & 305733 Modification Kits to Provide Paper-Out Alarm Switch	52
7	Friction Feed Platen and Line Feed Mechanism	9	51	305035, 305036 & 307065 Modification Kits to Provide Manual Platen Line Feed	53
8	Trip Shaft Mechanism	10	52	163146 Modification Kit to Provide Universal Contact	54
9	Space Suppression Mechanism	11	53	305037 Modification Kit to Adapt Sprocket Feed Printers to 9-1/2 Inch Form Widths	55
10	Vertical Tabulating Mechanism	12	54	311456 and 324095 Modification Kits to Provide Paper Jam Alarm	56
11	Contact Assemblies for Vertical Tabulating Mechanism	13	55	312711 Modification Kit to Adapt Units with a Vertical Tabulating Mechanism to use the 179724 Modification Kit	57
12	Main Shaft Mechanism	14	56	311458, 311459, 311460 and 311461 Modification Kits to Add Adjustable Last Form Alarm	58
13	Main Shaft Mechanism (Continued)	15	57	321099 Modification Kit to Provide Automatic Carriage Return and Line Feed	59
14	Right Side Linkage and Type Box Carriage Mechanism	16	58	152350 Modification Kit to Provide Keyboard Lock	60
15	Left Side Linkage and Rocker Shaft Mechanism	17	59	157510 Modification Kit to Provide Local Backspace	60
16	Front Plate Mechanism	18	60	305540 Modification Kit to Provide a Yield Mechanism for the Line Feed Stripper Slide (Function Box Slots 39, 40 & 41)	61
17	Front Plate Mechanism (Continued)	19	61	305539 Modification Kit to Provide a Yield Mechanism for the Line Feed Stripper Slide (Function Box Slots 39 & 40)	61
18	Front Plate Mechanism (Continued)	20	62	174439 Modification Kit to Add Timing Contacts for Selector (Less Cam)	62
19	Front Plate Mechanism (Continued)	21	63	163183 Modification Kit to Provide D. C. Magnet Operated Print Suppression	63
20	Front Plate Mechanism (Continued)	22	64	325967 Modification Kit to Convert Sprocket Feed Printer Line Feed from 6.1 to 3.1 Ratio (6 Stop to 3 Stop Clutch)	64
21	Carriage Return and Spacing Drum Mechanism	23		Numerical Index	65
22	Selector Mechanism	24			
23	Selector Magnet Timing Contact Mechanism	25			
24	Selector Magnet Mechanism	26			
25	192495 Form-Out Solenoid Assembly	27			
26	Code Bar Positioning Mechanism	28			
27	Intermediate Storage Feature for Code Bar Positioning Mechanism	29			
28	Paper Alarms and Form-Out XD Control Mechanism	30			
29	Paper Alarms and Form-Out Mechanisms	31			
30	Left Ribbon Feed Mechanism	32			
31	Right Ribbon Feed Mechanism	33			
32	173260 Printing Carriage Mechanism	34			
33	Horizontal Tabulating Mechanism	35			
34	Code Bar Mechanism	36			
35	Basic Stunt Box Components	37			
36	Switch Assemblies and Components	38			
37	Function Levers and Pawls	39			
38	Suppression Solenoid Mechanism	40			
39	Function Bars	41			
40	Typepallet Box and Typepallet Chart	42			
41	Typepallet Charts	43			
42	Sprocket Feed Paper Handling Modification Kits	44			
43	Vertical Tabulation Modification Kits	45			
44	Right Side-Ribbon Feed Mechanism For Two Color Ribbon Printing (Continued on next page)	46			

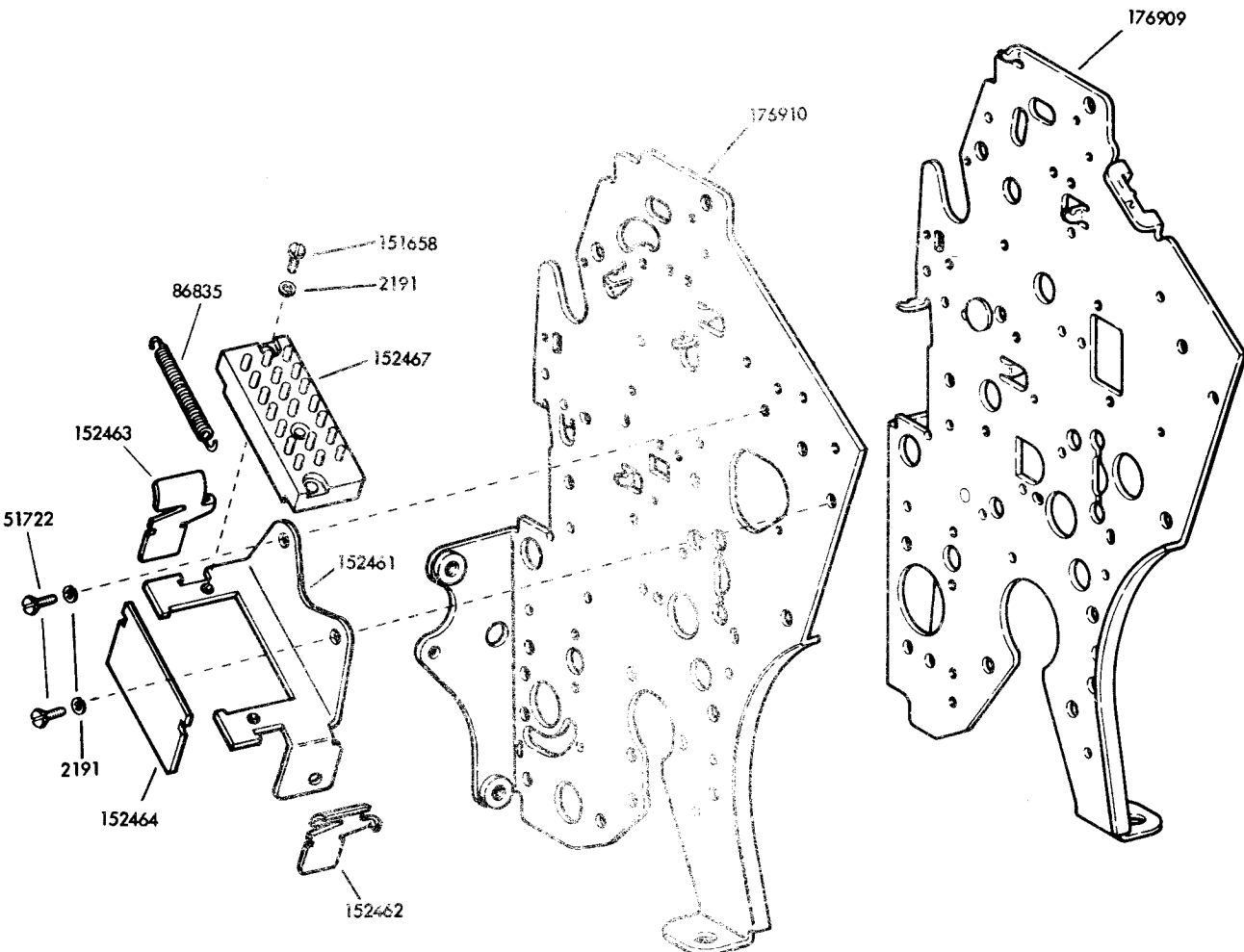


FIGURE 1. RIGHT AND LEFT SIDE FRAMES (WALL MOUNTED)

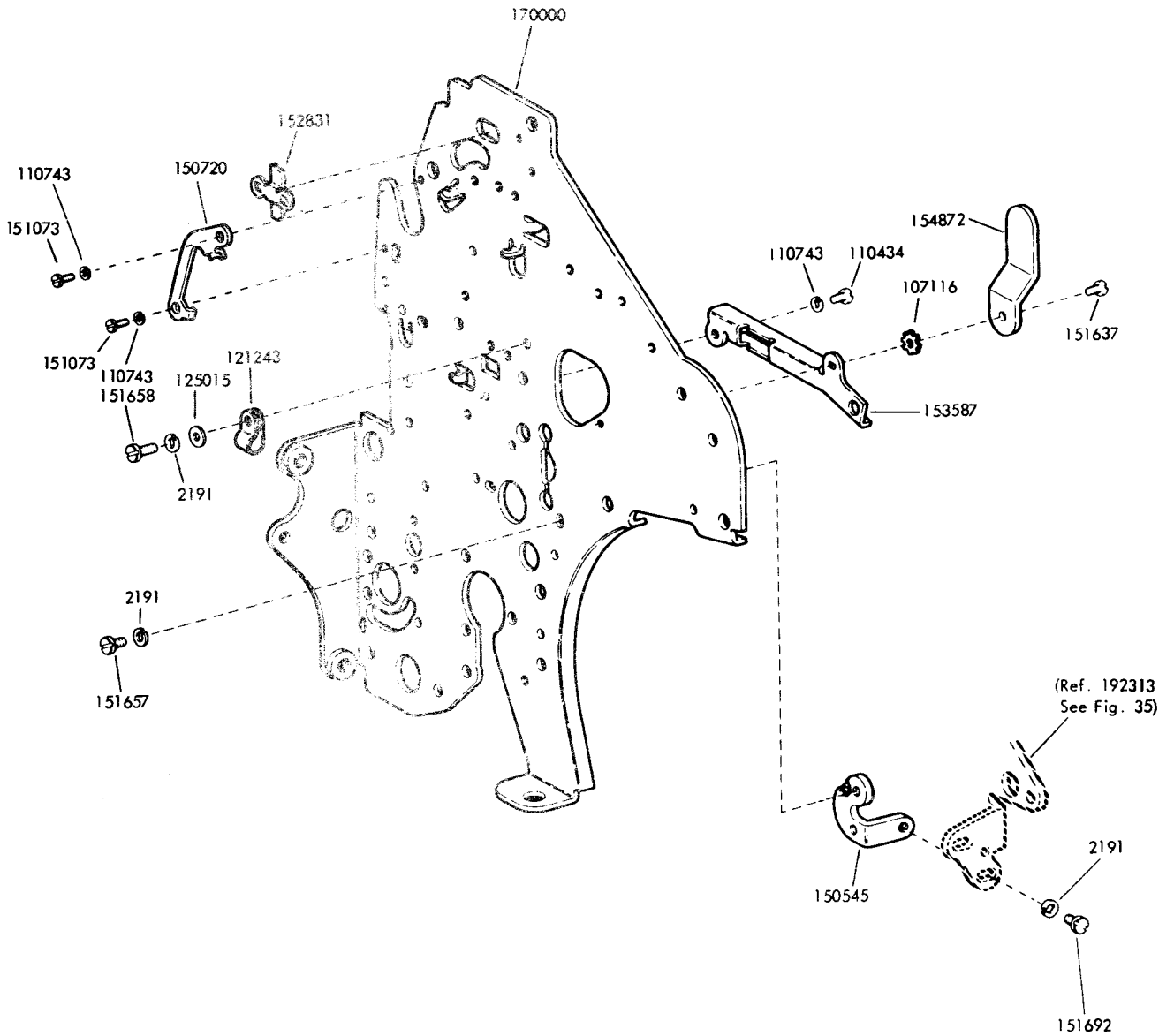


FIGURE 2. RIGHT SIDE FRAME

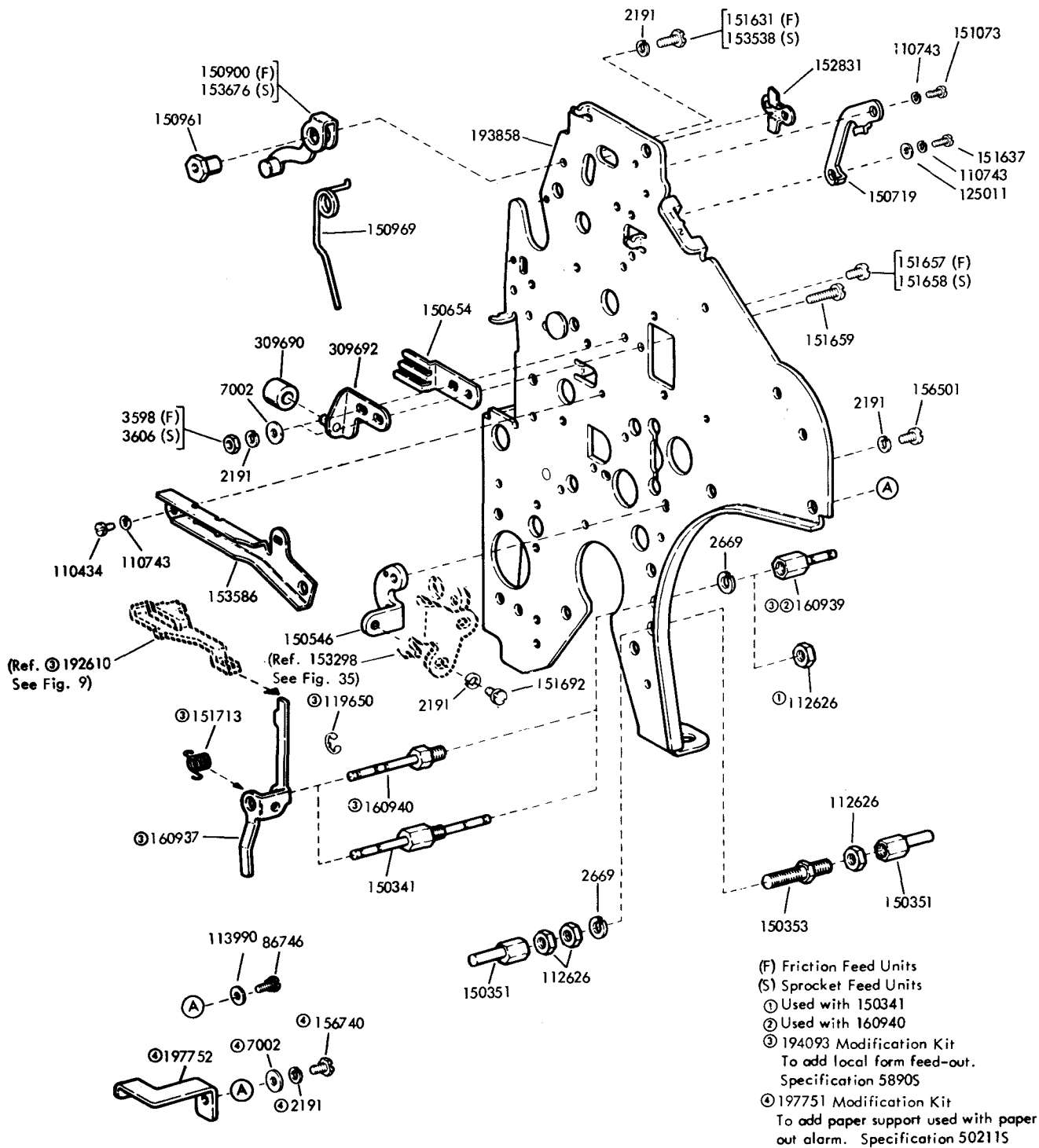


FIGURE 3. LEFT SIDE FRAME



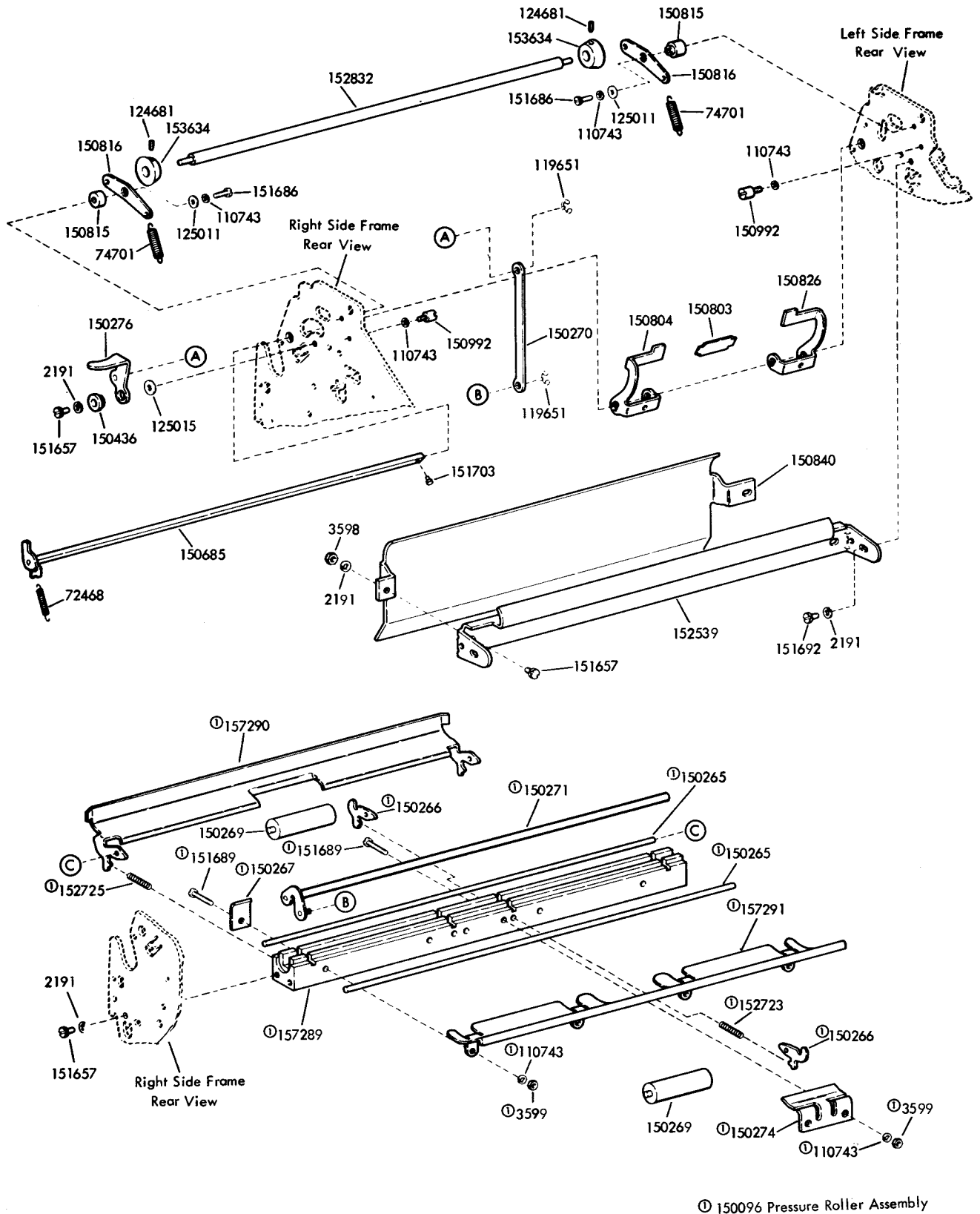


FIGURE 4. PRESSURE ROLLER MECHANISM

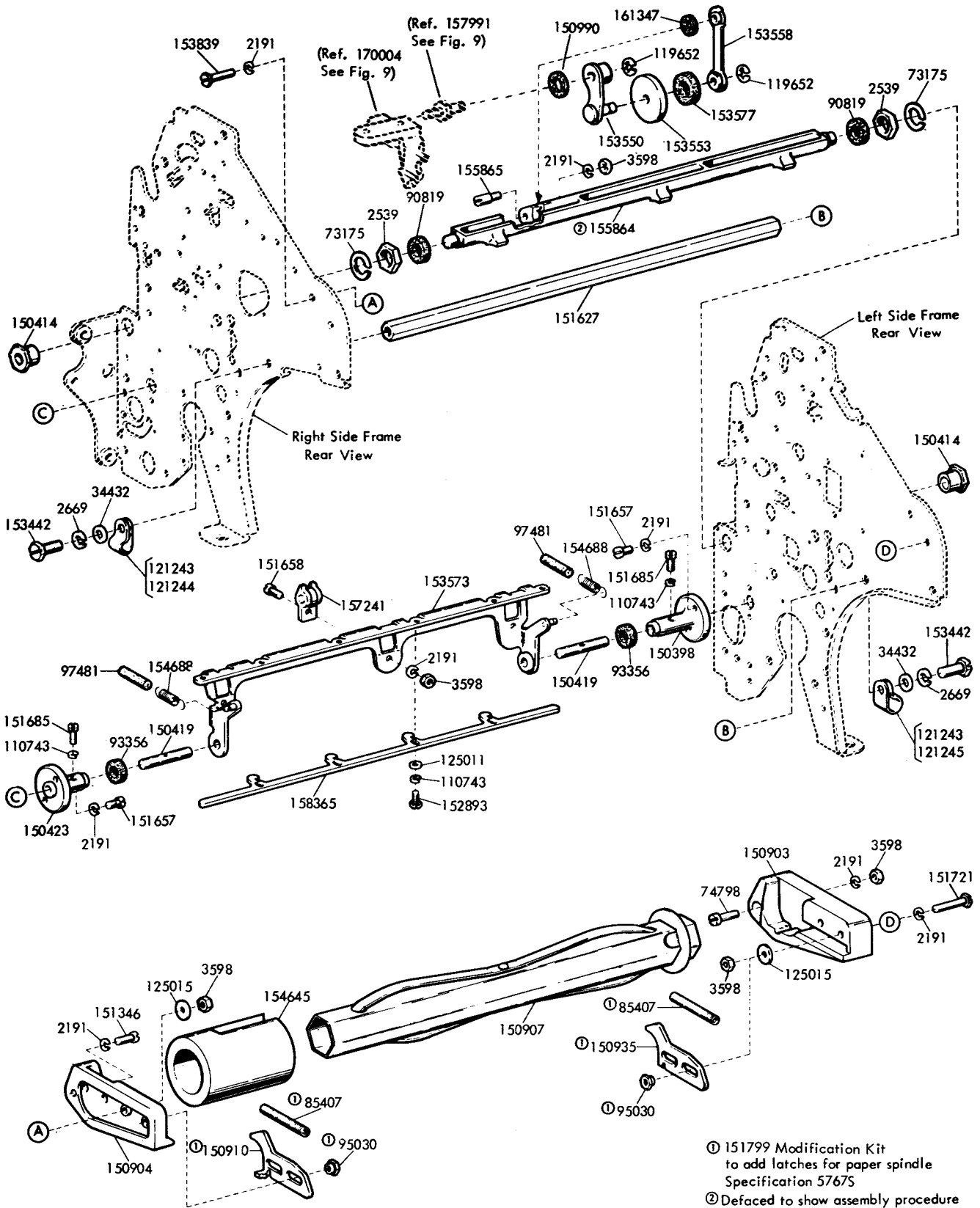


FIGURE 5. PAPER SPINDLE AND RESET BAIL MECHANISM

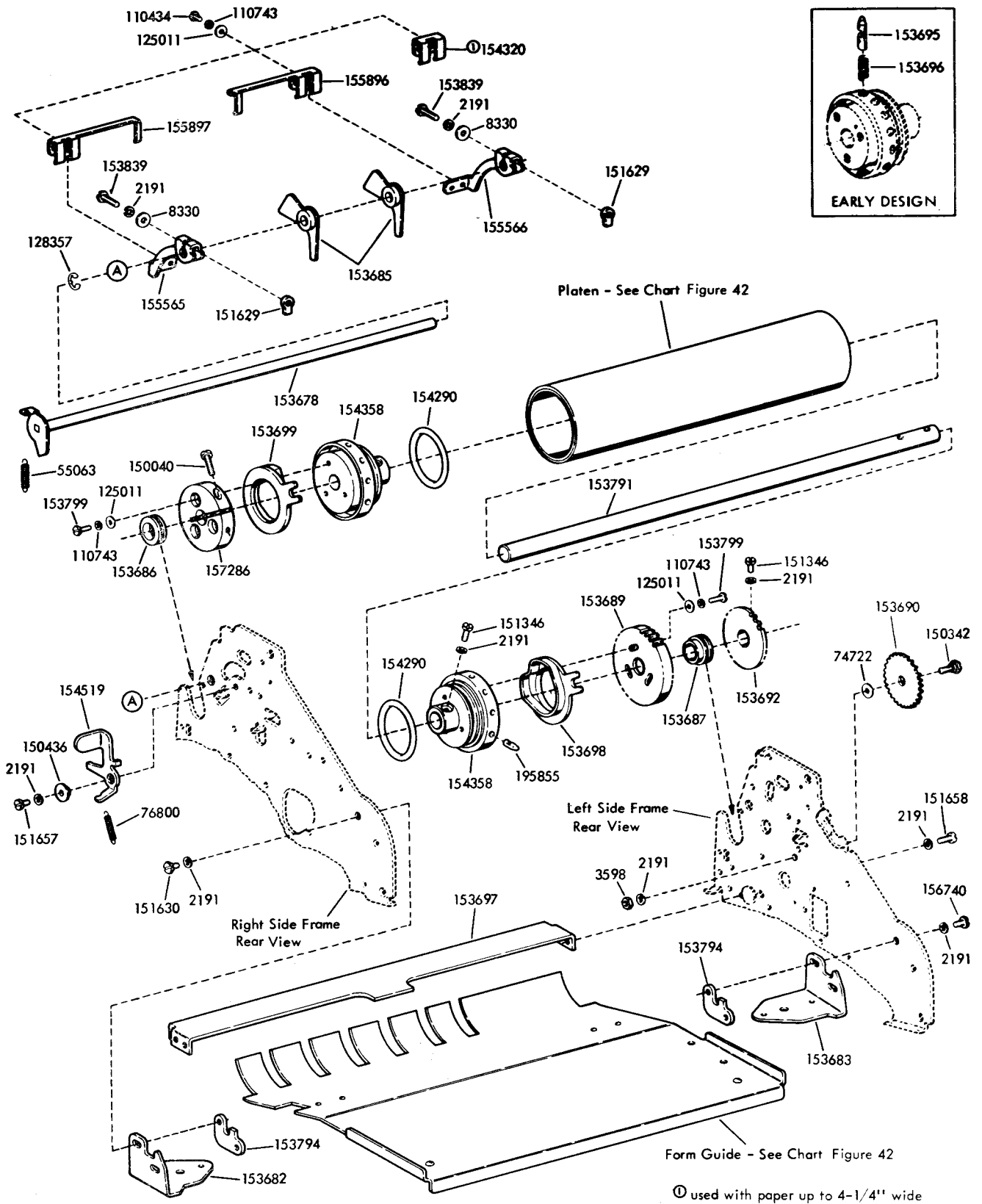


FIGURE 6. SPROCKET FEED PLATEN MECHANISM

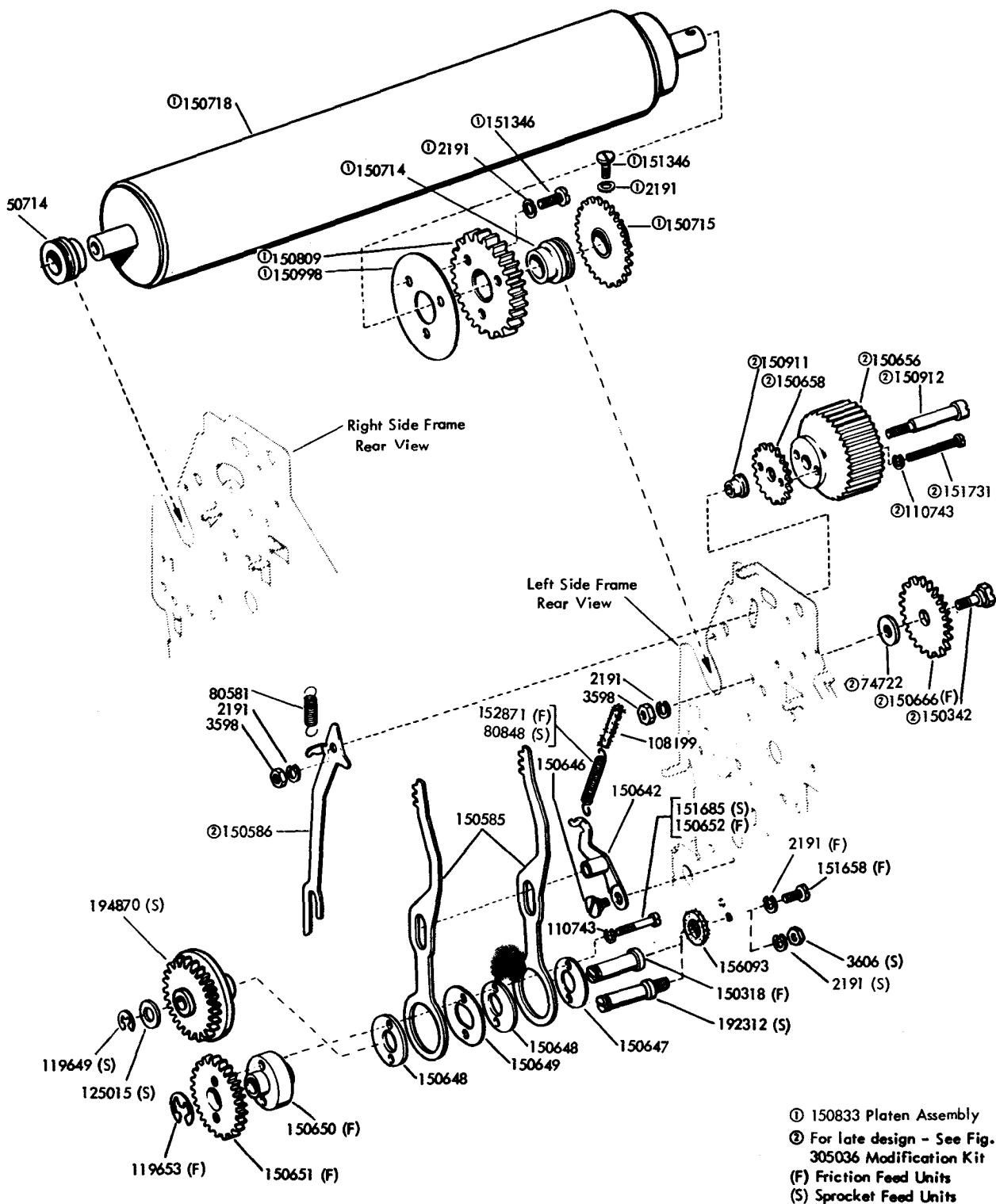


FIGURE 7. FRICTION FEED PLATEN AND LINE FEED MECHANISMS

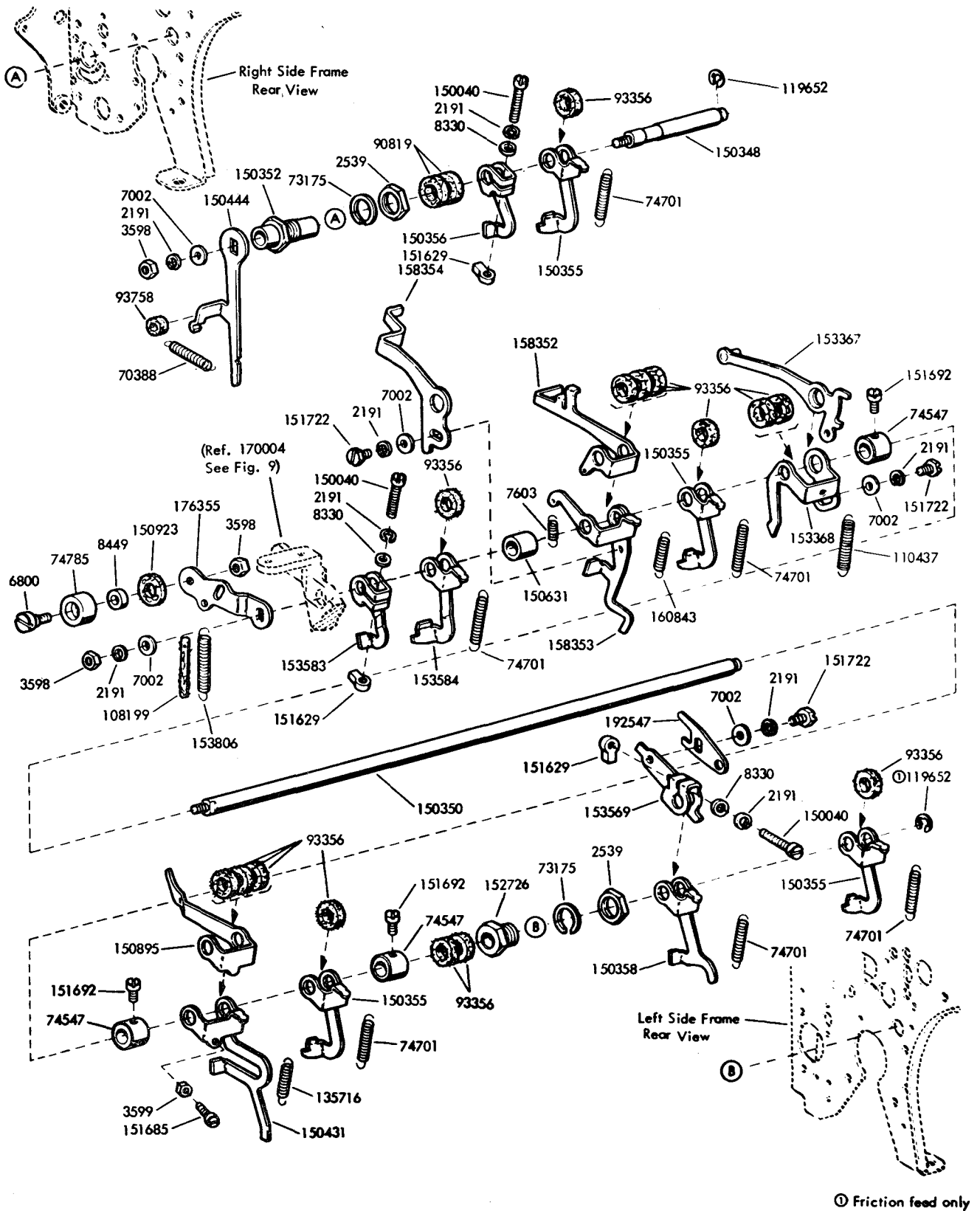


FIGURE 8. TRIP SHAFT MECHANISM



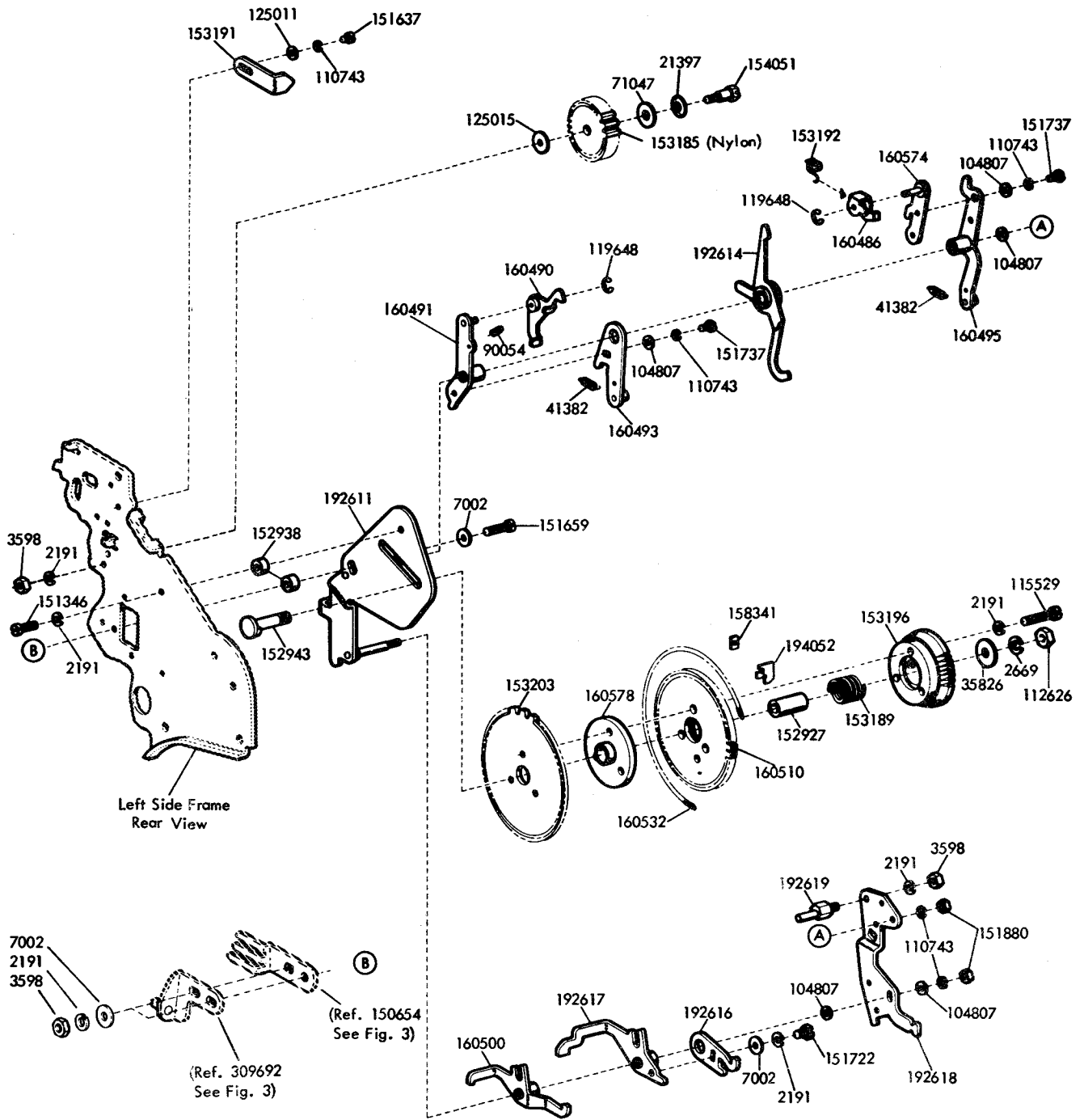
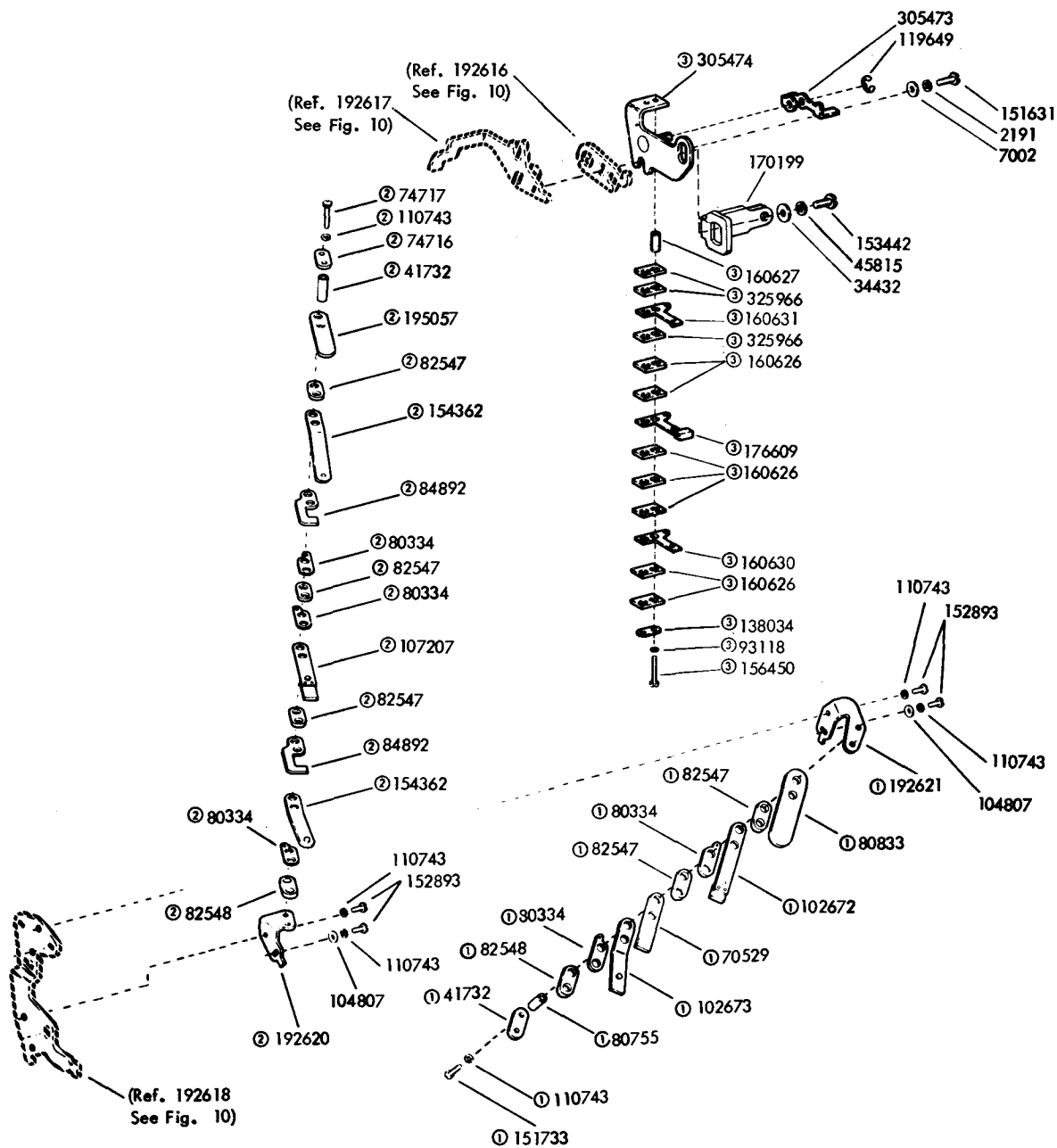


FIGURE 10. VERTICAL TABULATING MECHANISM



- ① 192487 Contact Assembly
- ② 192488 Contact Assembly
- ③ 305465 Contact Assembly

FIGURE 11. CONTACT ASSEMBLIES FOR VERTICAL TABULATING MECHANISM



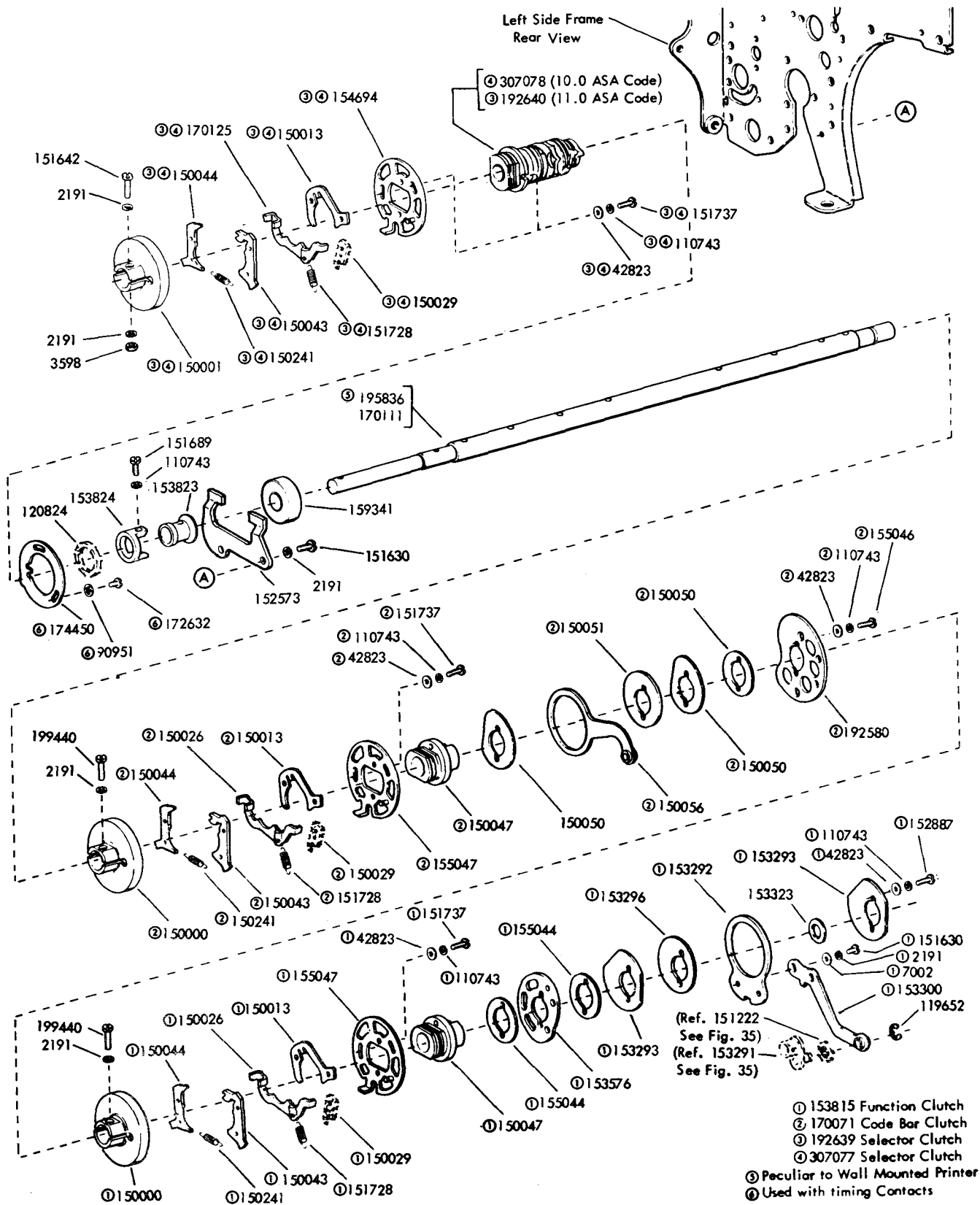


FIGURE 12. MAIN SHAFT MECHANISM

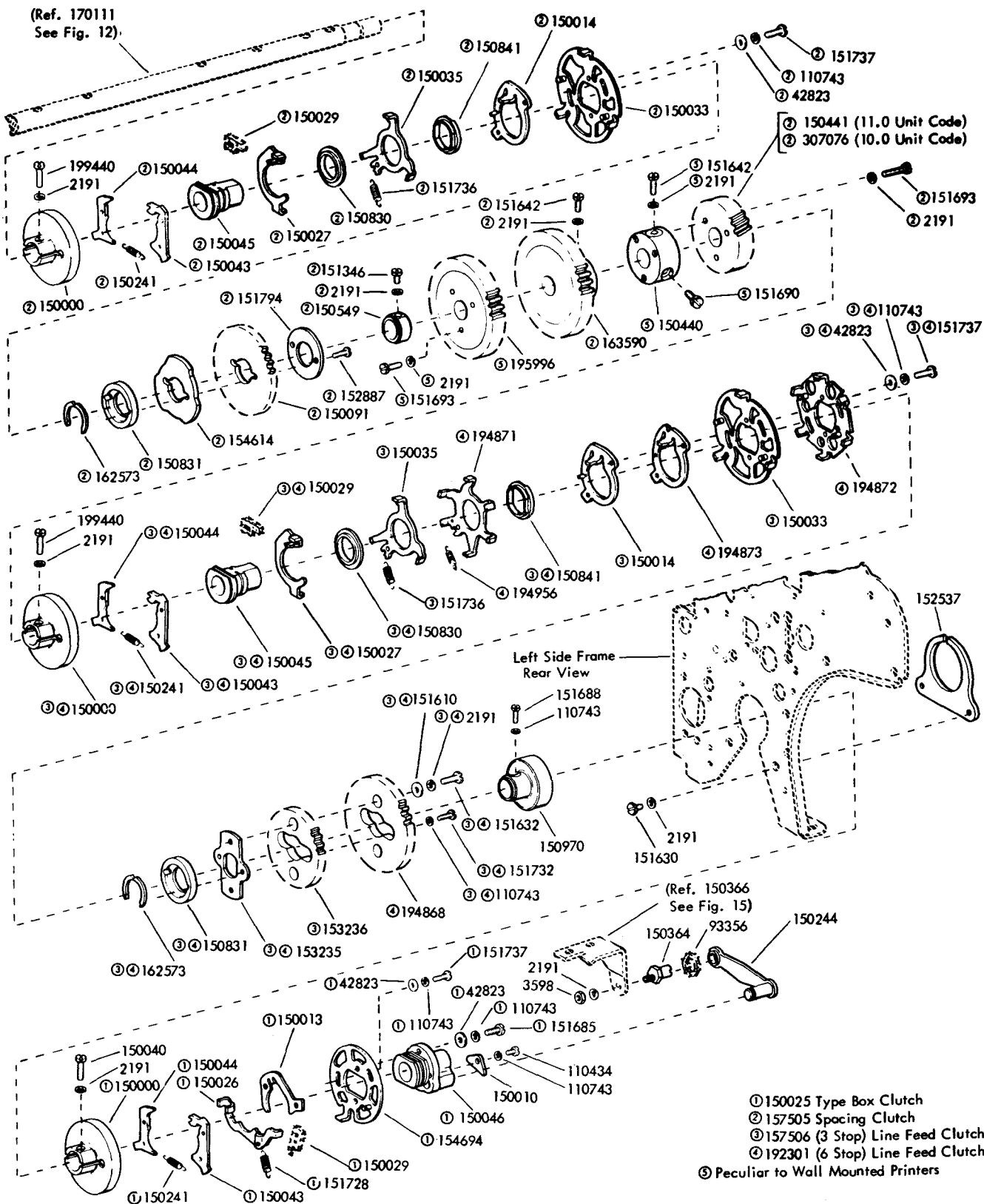


FIGURE 13. MAIN SHAFT MECHANISM (Continued)

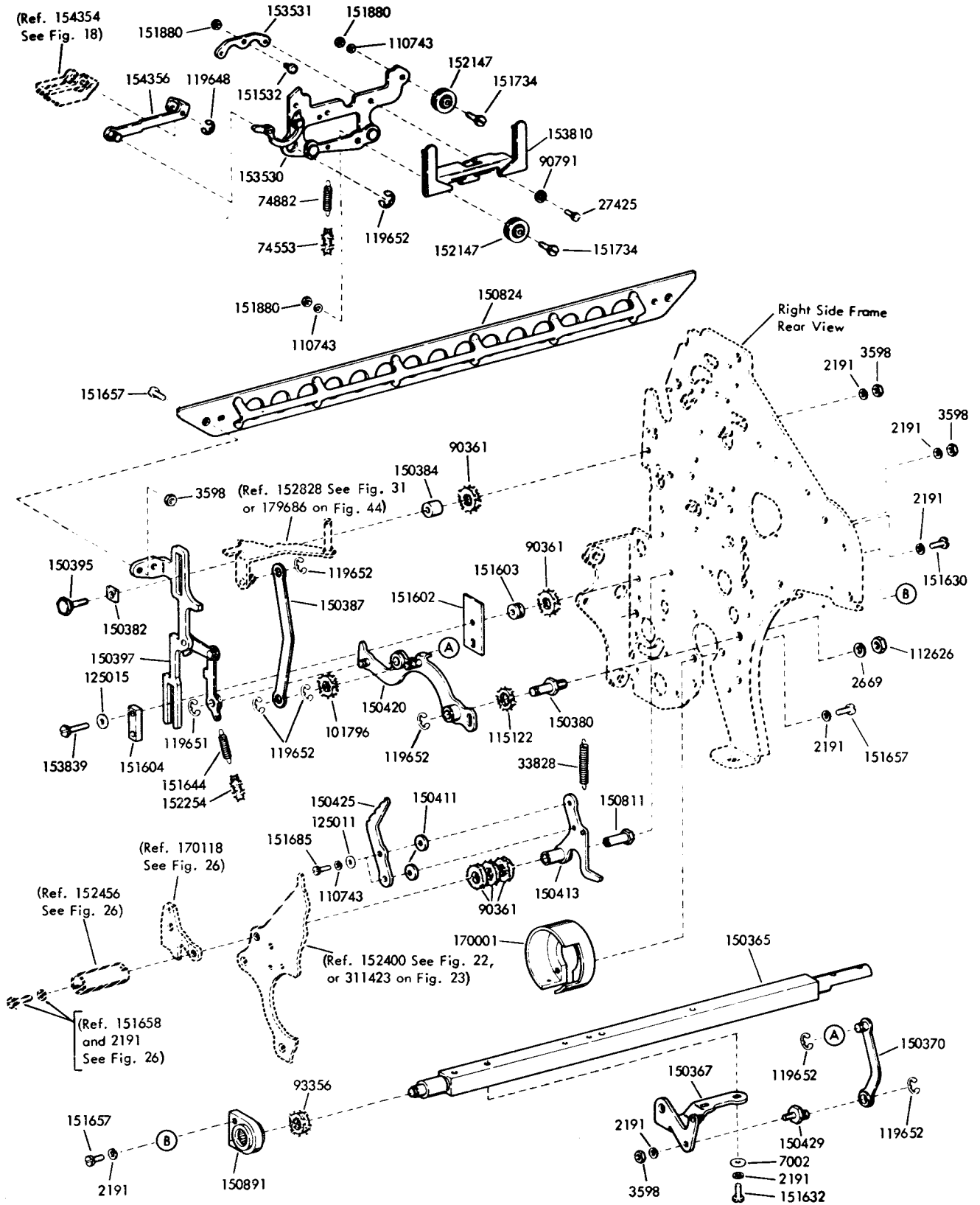


FIGURE 14. RIGHT SIDE LINKAGE AND TYPE BOX CARRIAGE MECHANISM



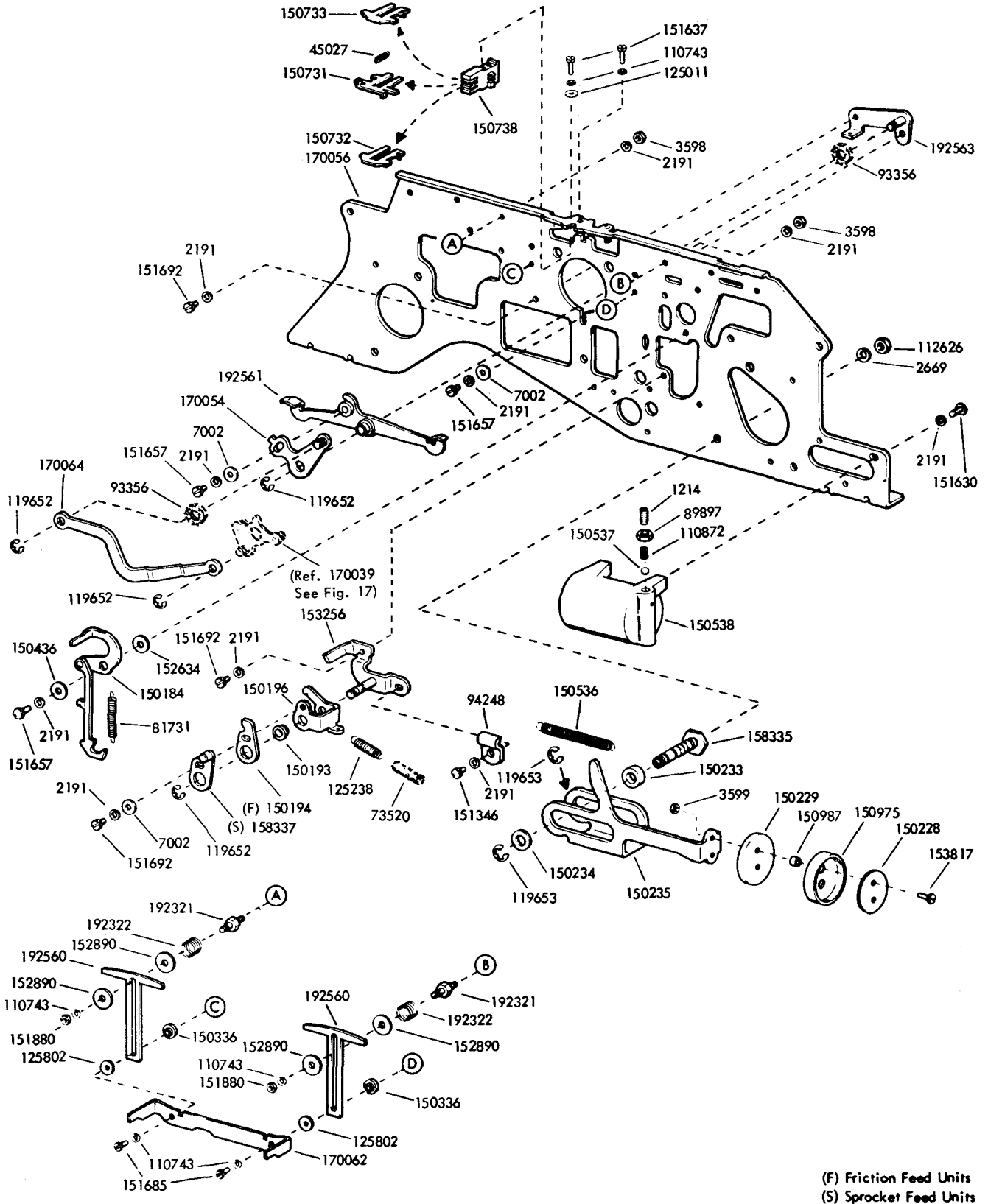


FIGURE 16. FRONT PLATE MECHANISM



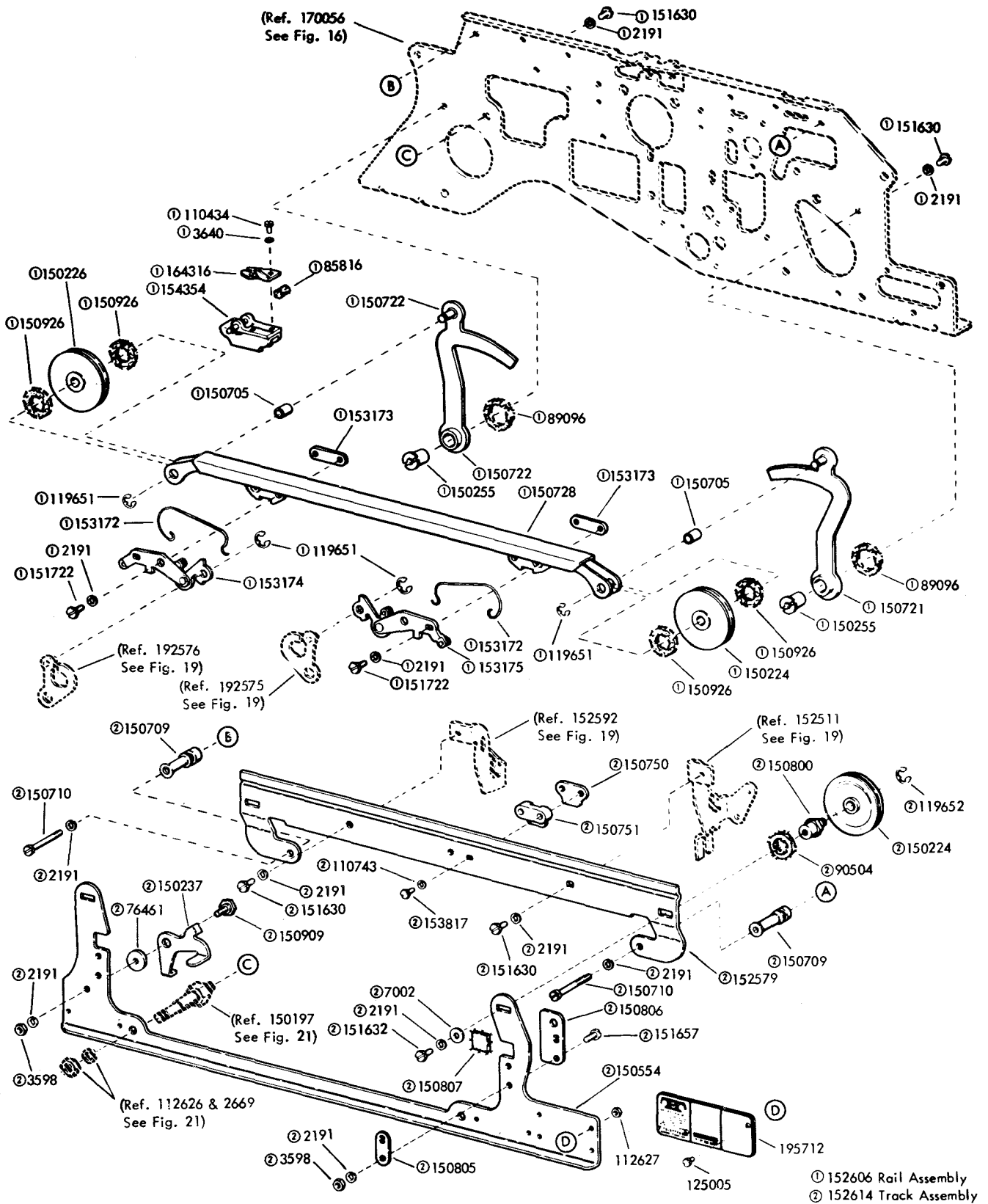


FIGURE 18. FRONT PLATE MECHANISM (Continued)

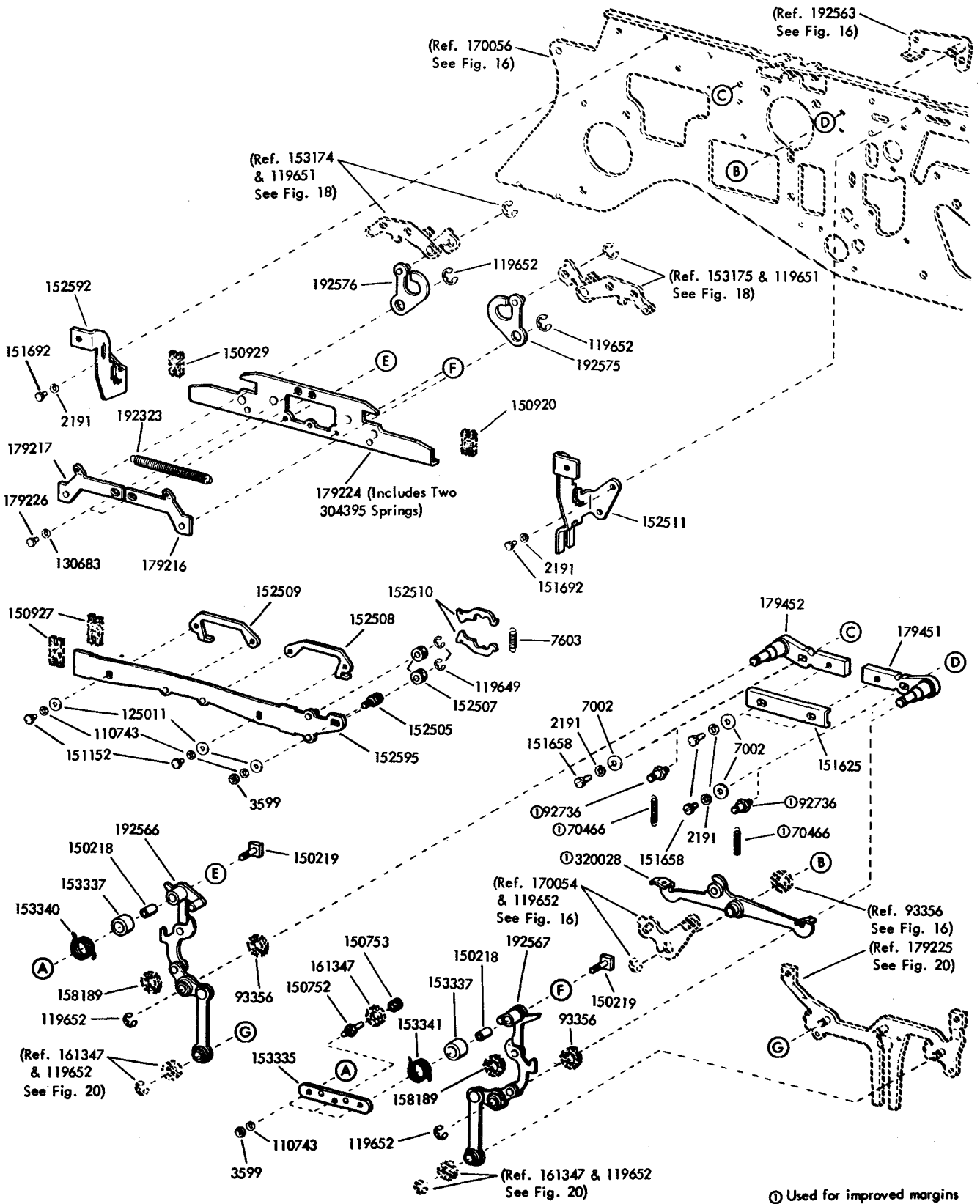
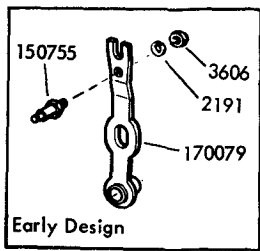
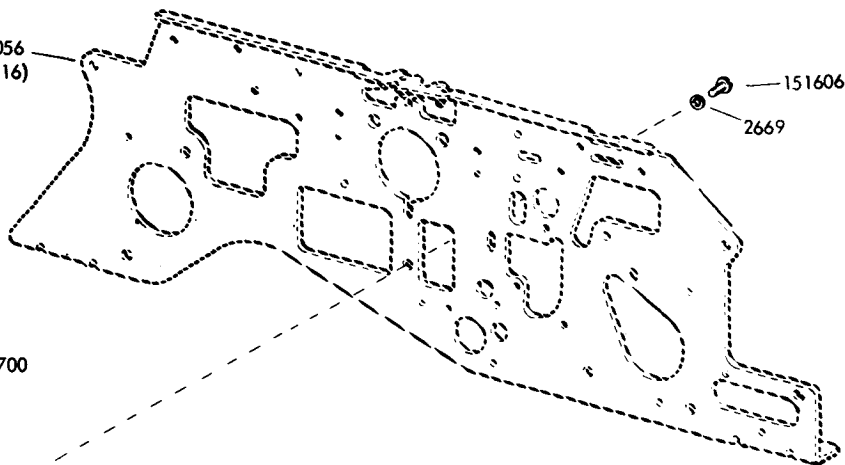


FIGURE 19. FRONT PLATE MECHANISM (Continued)

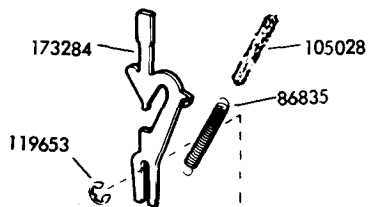
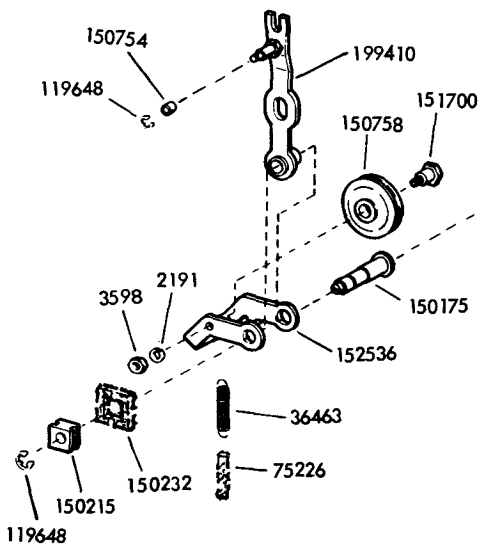




(Ref. 170056  
See Fig. 16)

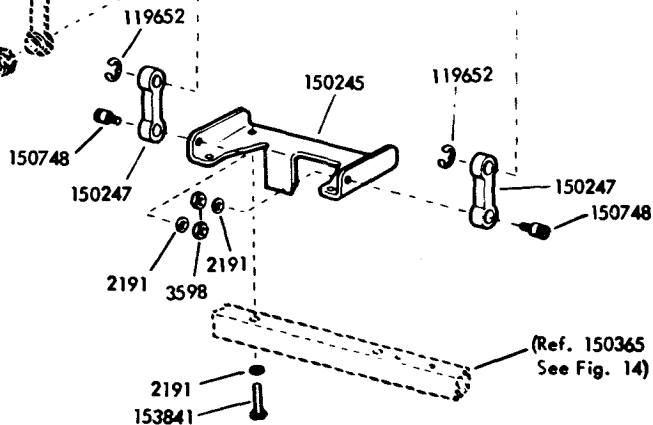
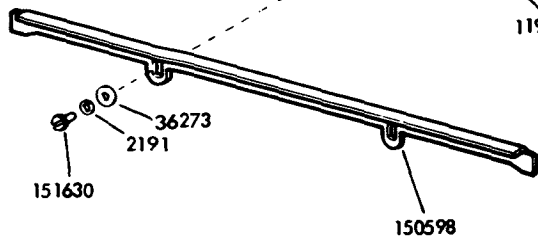
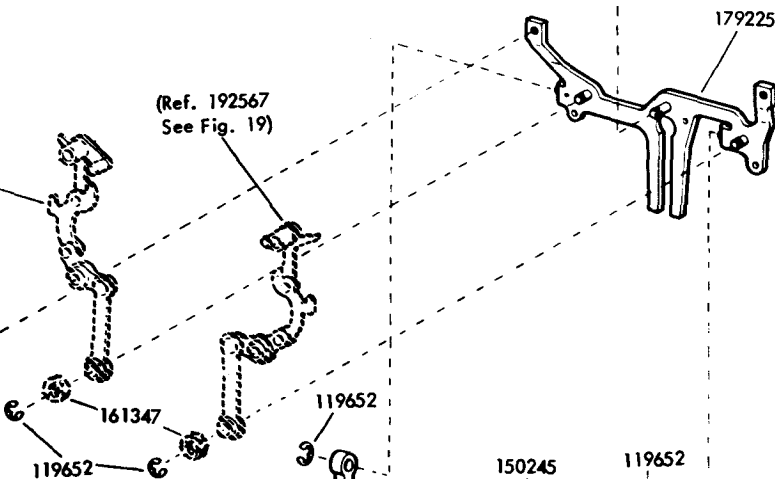


151606  
2669



(Ref. 192566  
See Fig. 19)

(Ref. 192567  
See Fig. 19)



(Ref. 150365  
See Fig. 14)

FIGURE 20. FRONT PLATE MECHANISM (Continued)

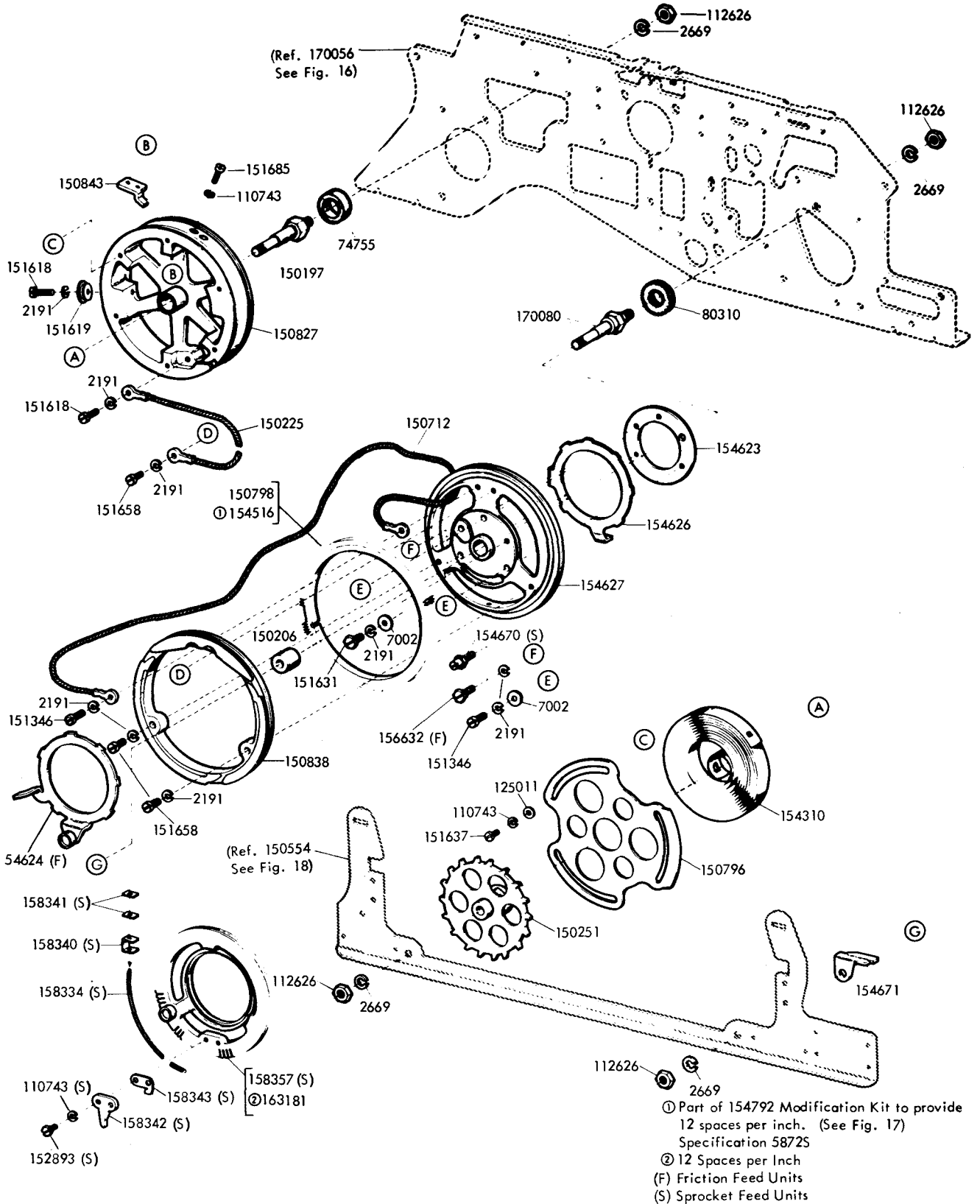


FIGURE 21. CARRIAGE RETURN AND SPACING DRUM MECHANISM

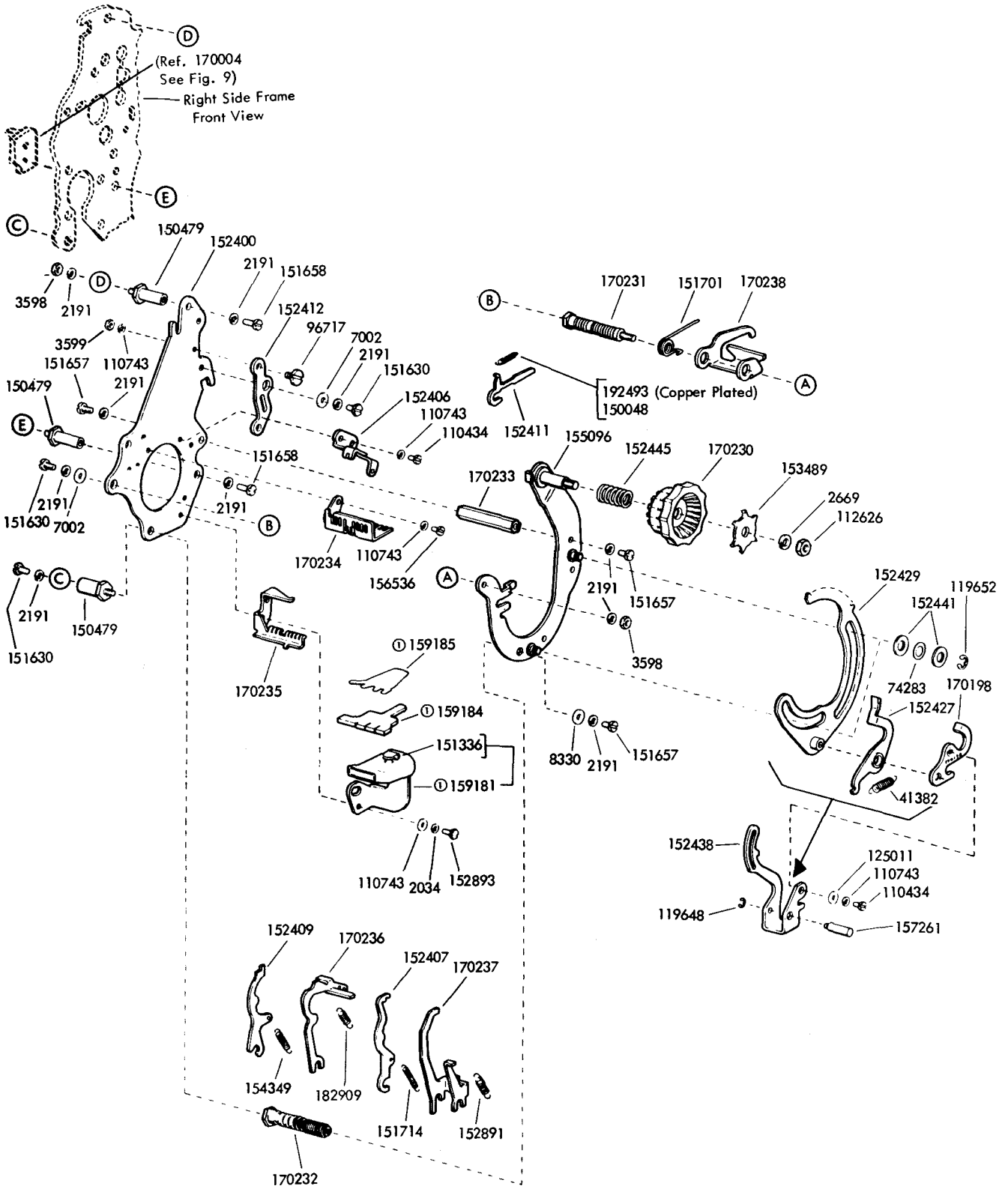


FIGURE 22. SELECTOR MECHANISM

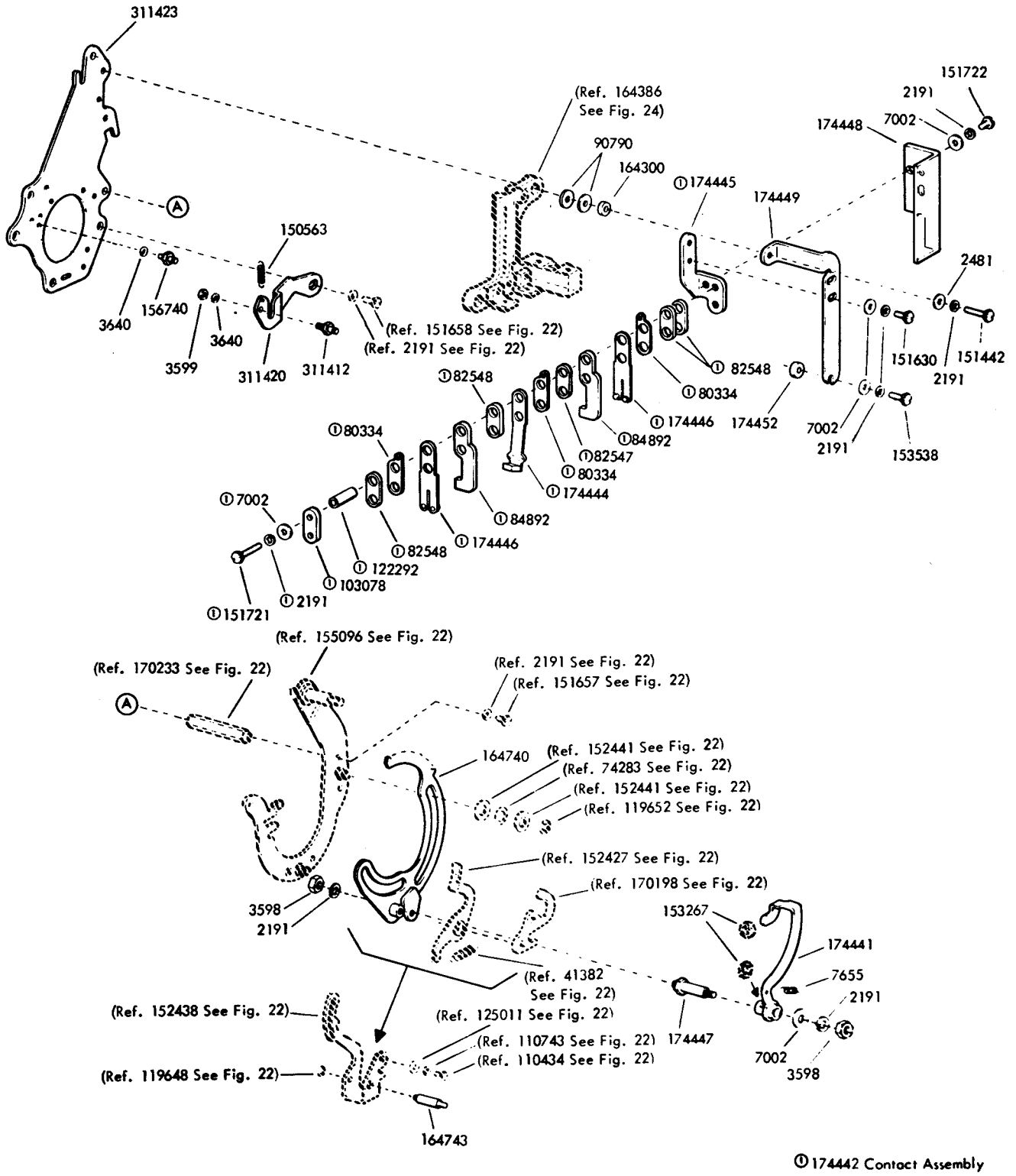


FIGURE 23. SELECTOR MAGNET TIMING CONTACT MECHANISM

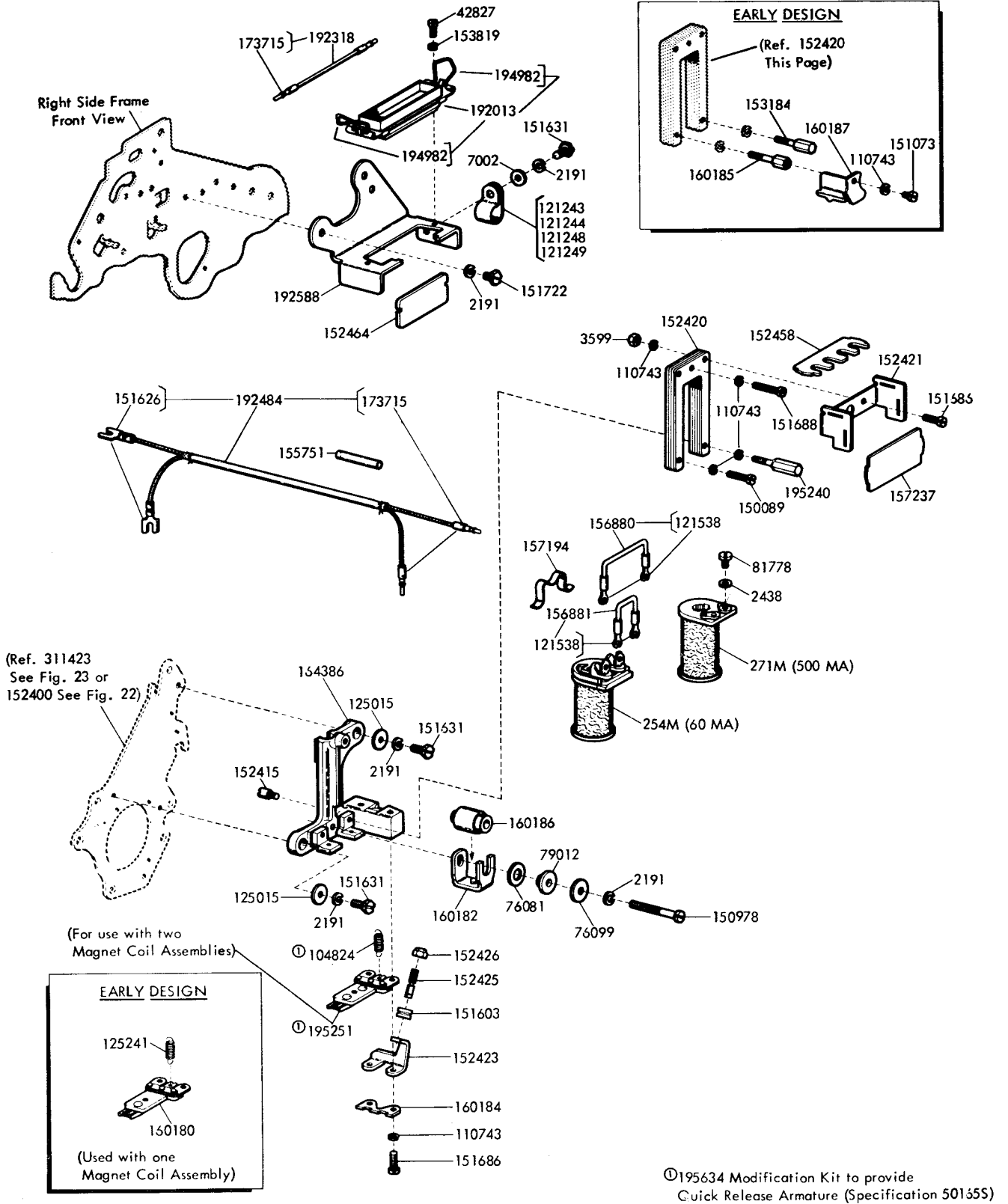


FIGURE 24. SELECTOR MAGNET MECHANISM

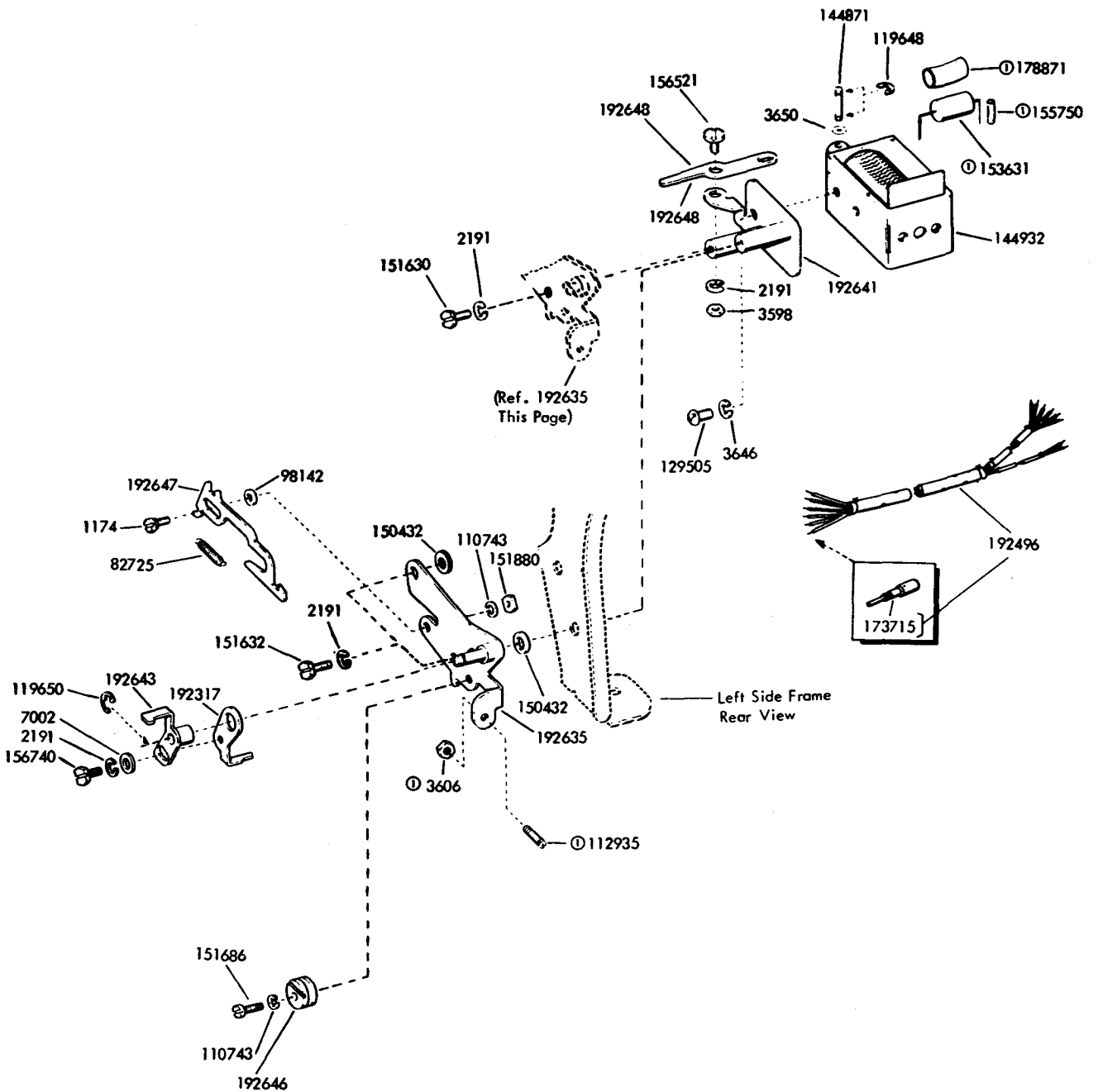


FIGURE 25. 192495 FORM-OUT SOLENOID ASSEMBLY

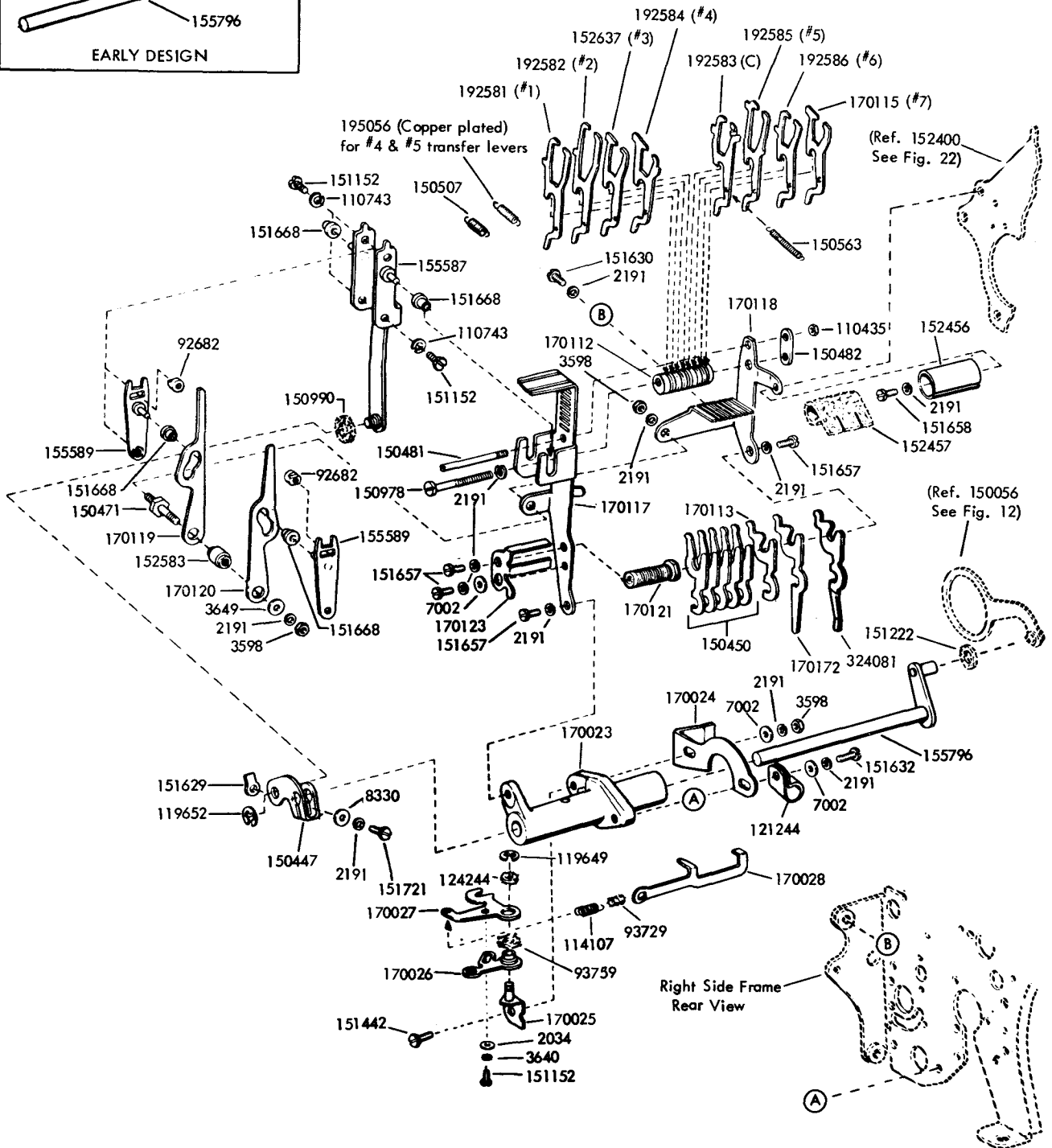
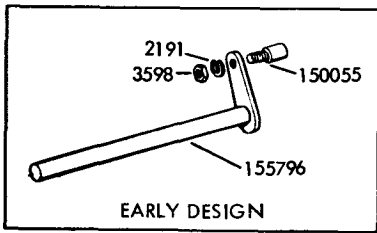
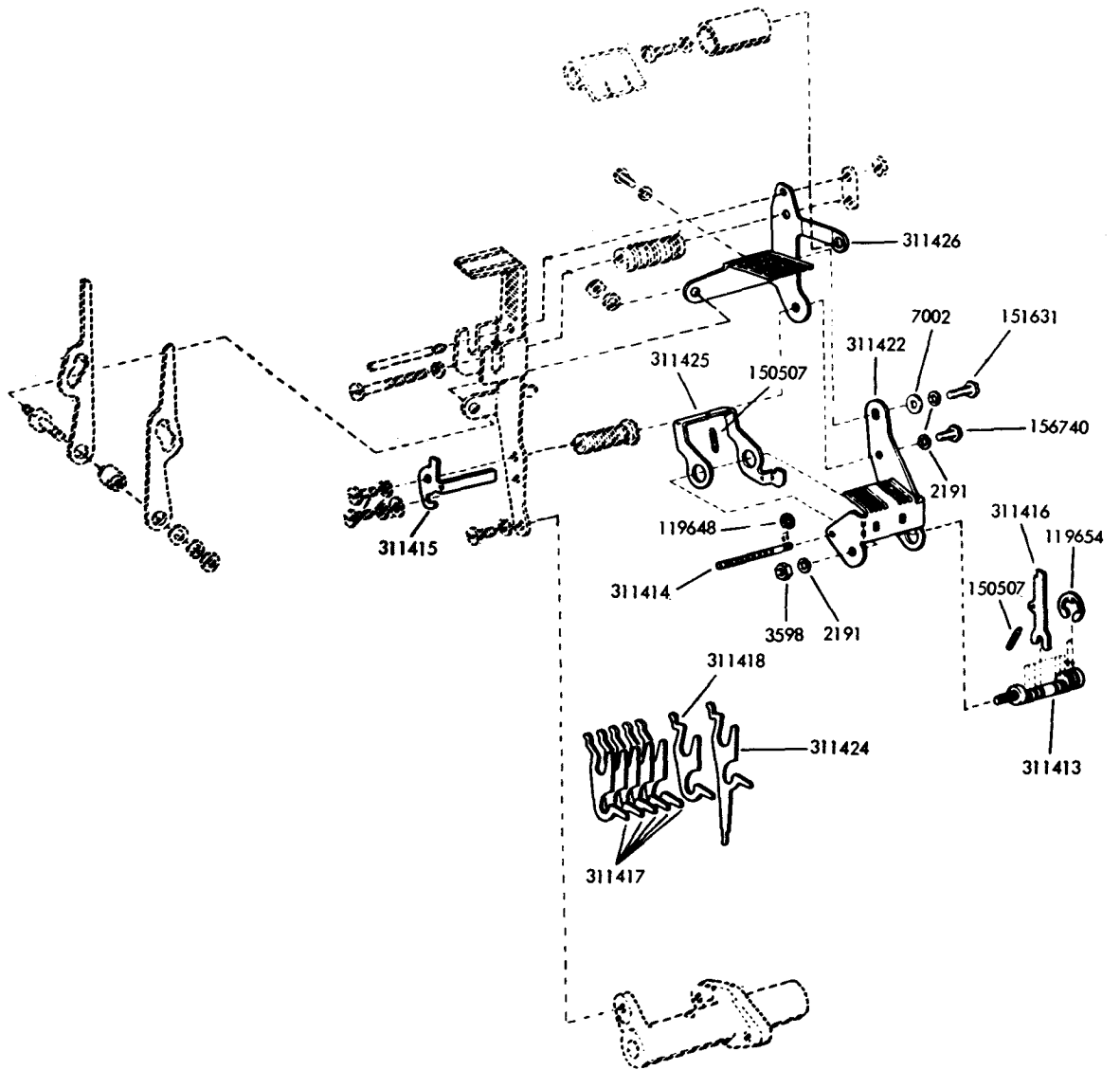


FIGURE 26. CODE BAR POSITIONING MECHANISM



Note:  
See figure 26 for all reference parts shown on this page.

FIGURE 27. INTERMEDIATE STORAGE FEATURE FOR CODE BAR POSITIONING MECHANISM



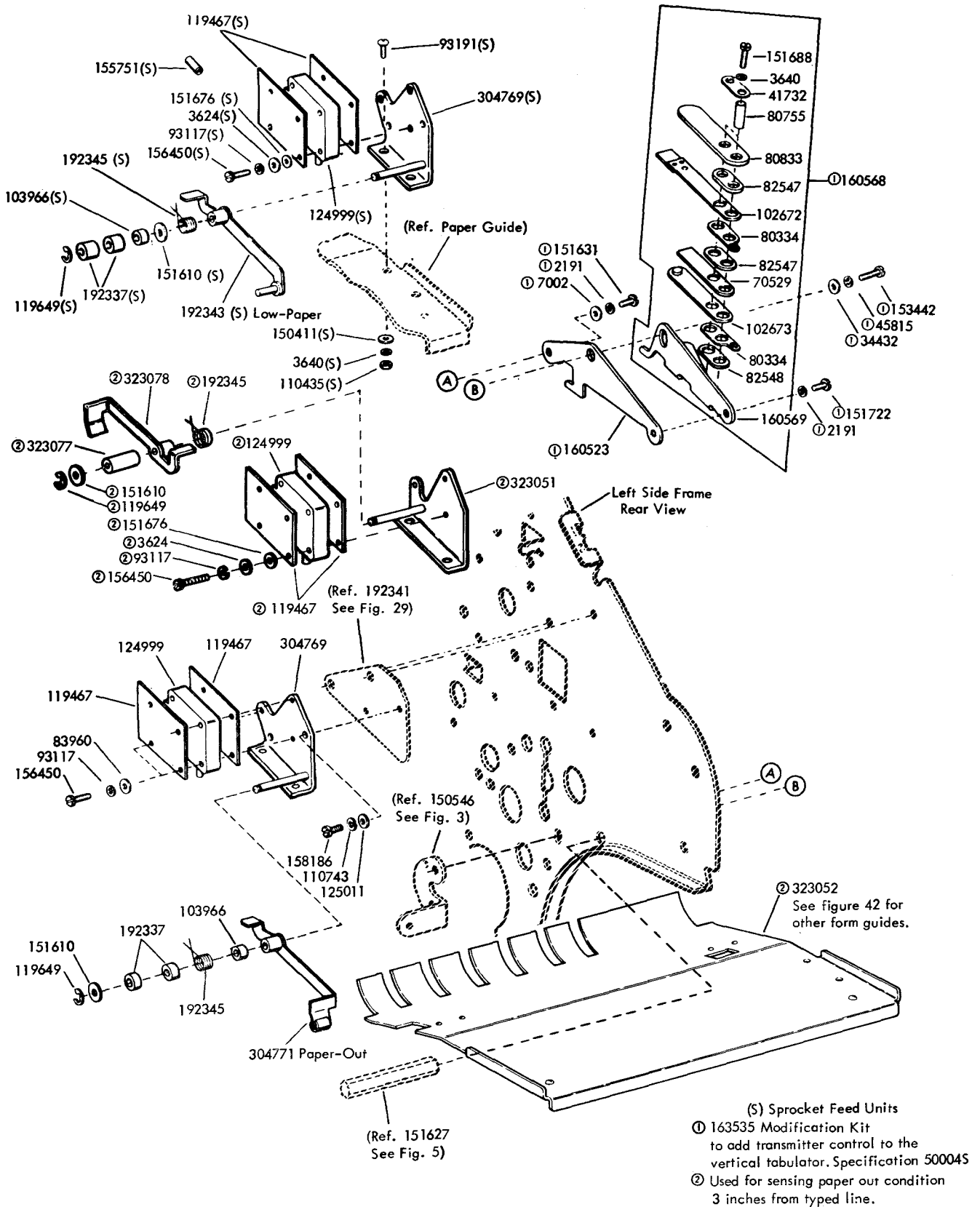


FIGURE 28. PAPER ALARMS AND FORM-OUT XD CONTROL MECHANISM

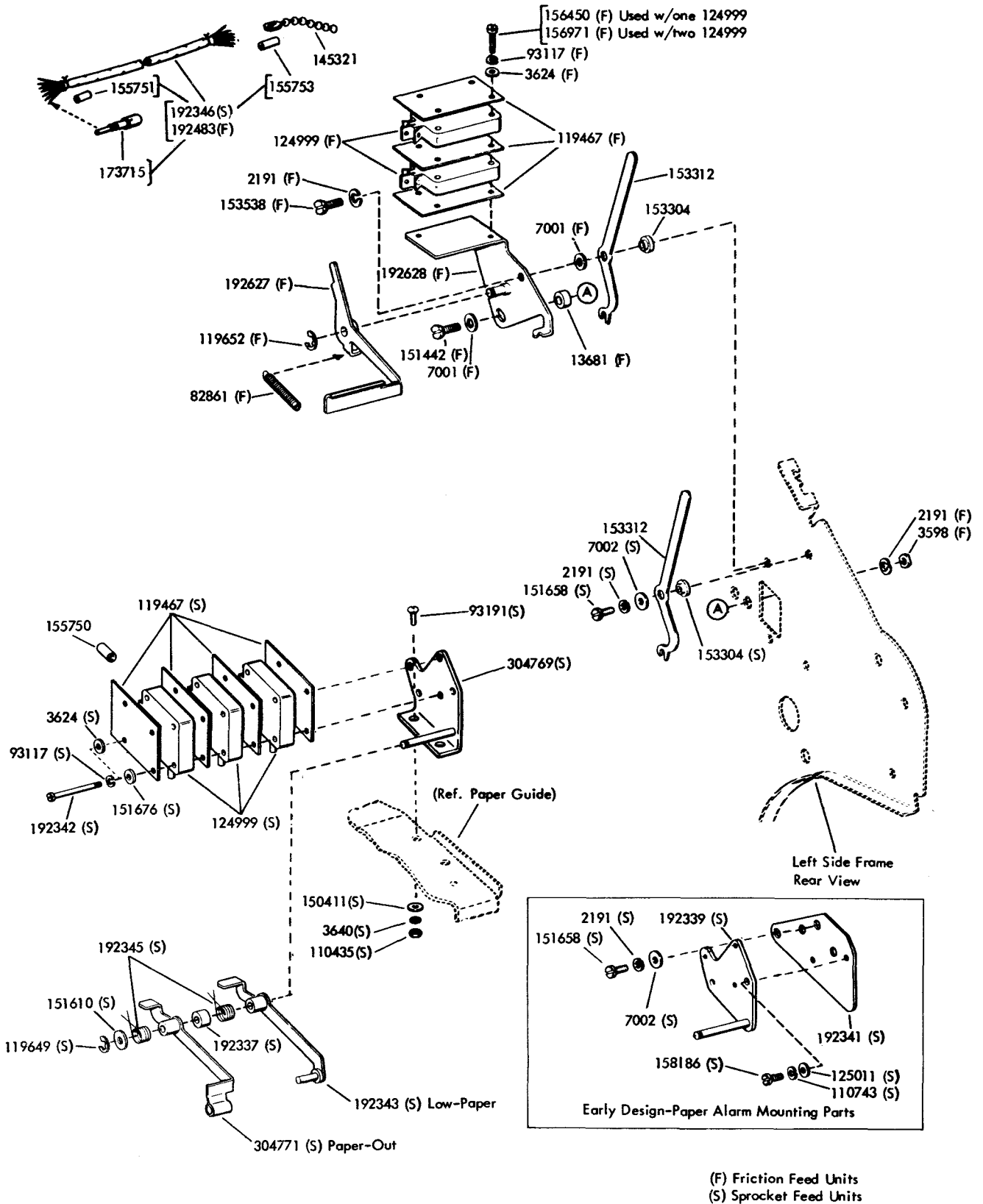


FIGURE 29. PAPER ALARMS AND FORM-OUT MECHANISMS

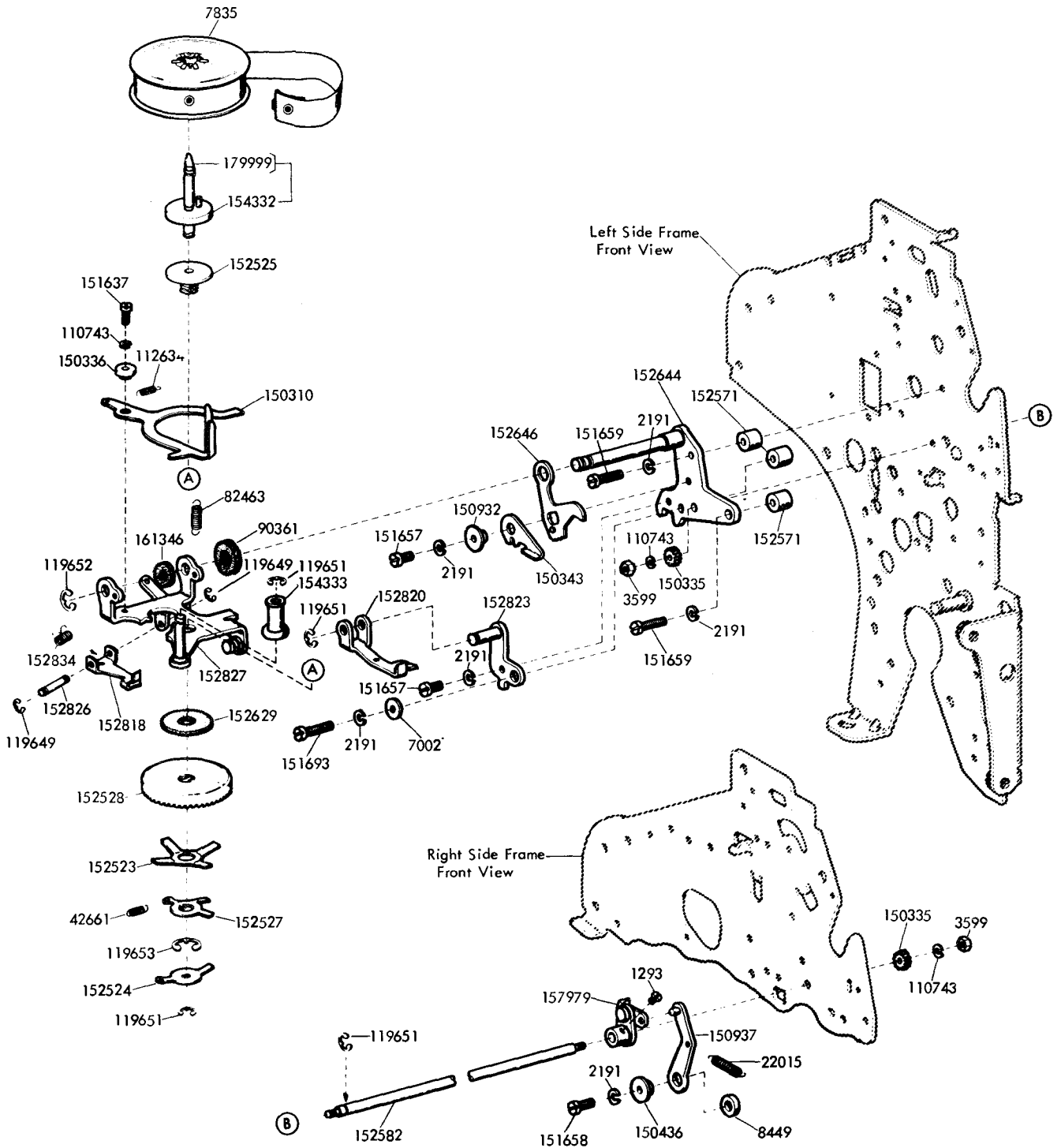


FIGURE 30. LEFT RIBBON FEED MECHANISM

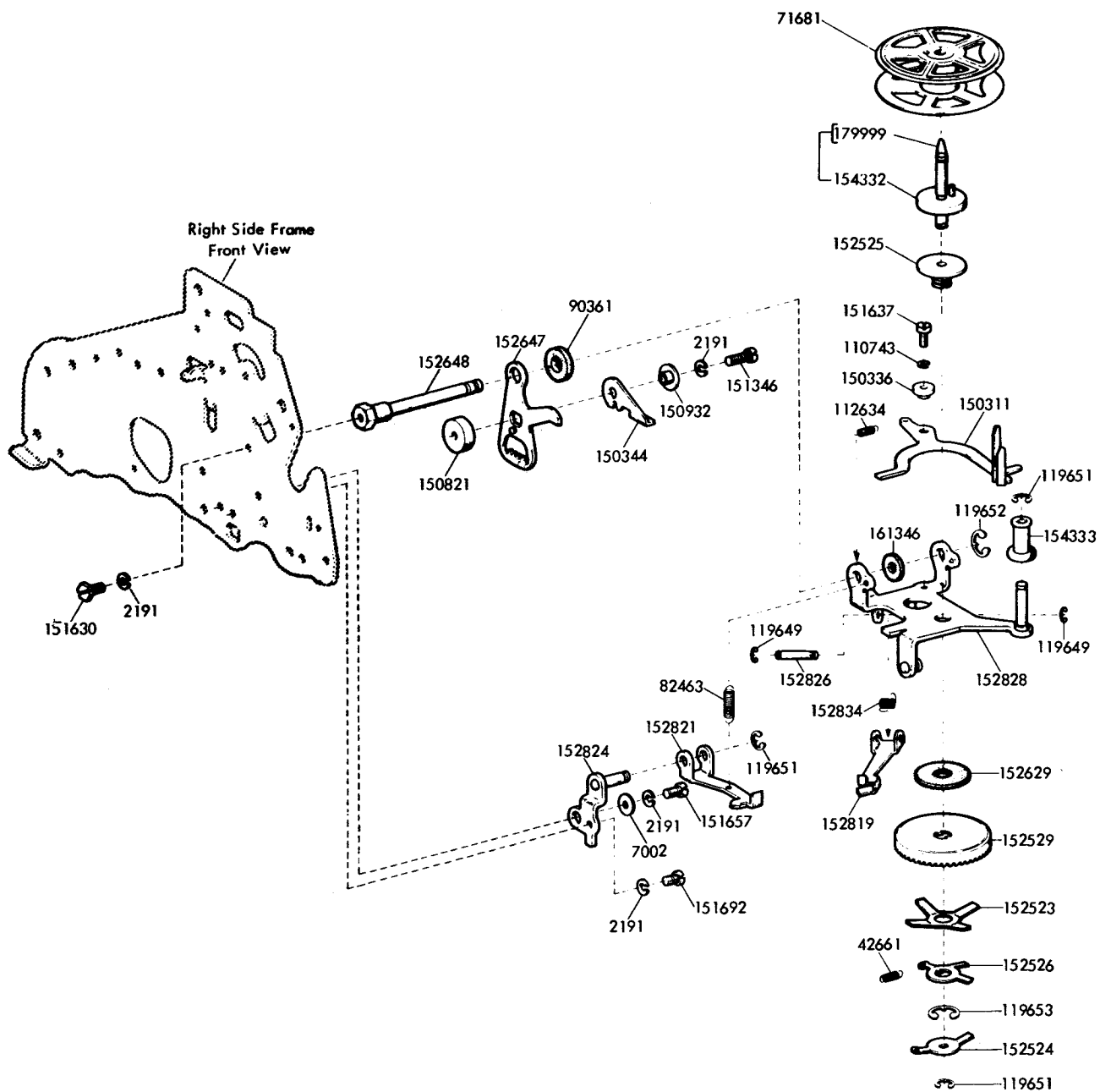


FIGURE 31. RIGHT RIBBON FEED MECHANISM

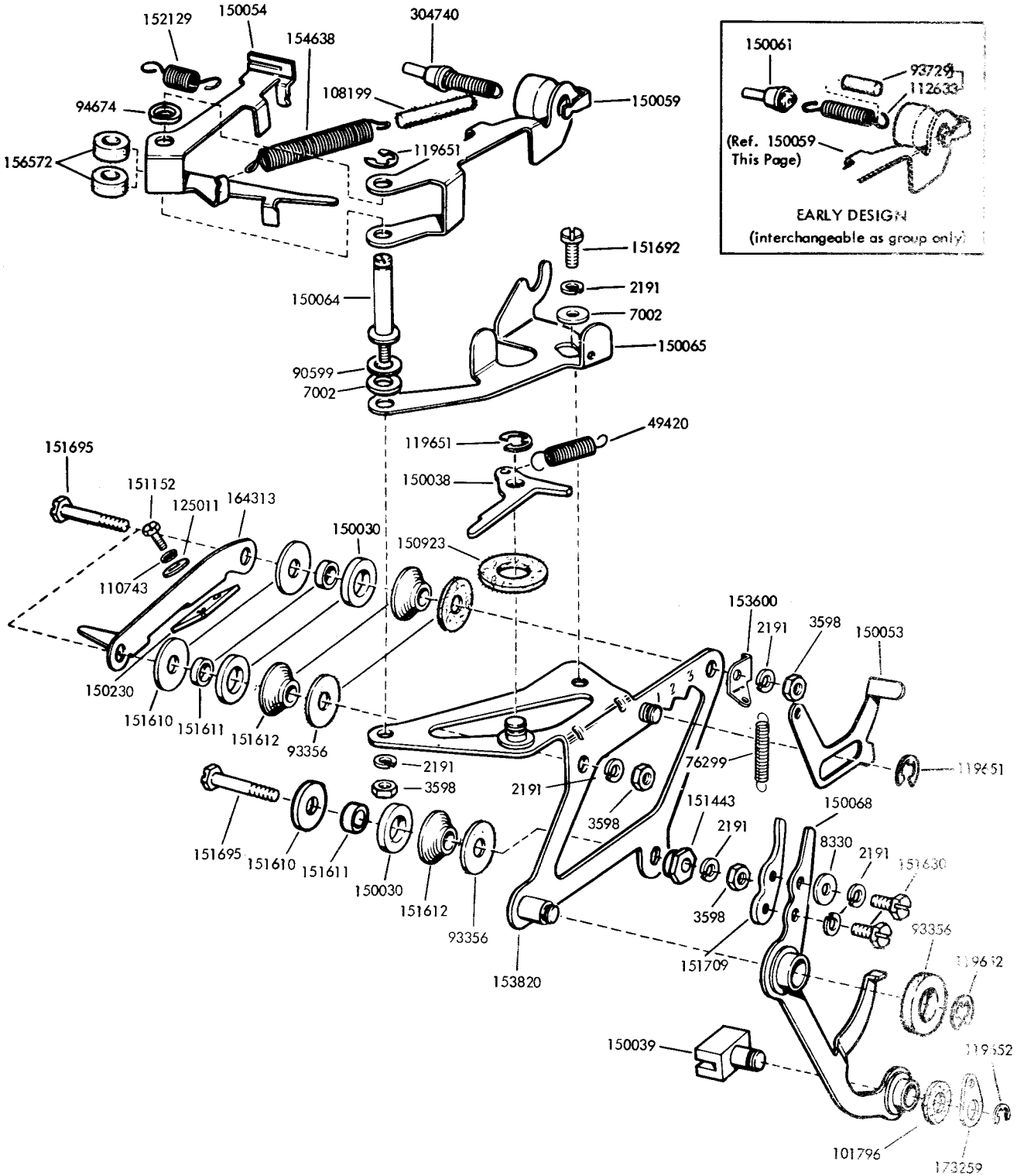


FIGURE 32. 173260 PRINTING CARRIAGE MECHANISM



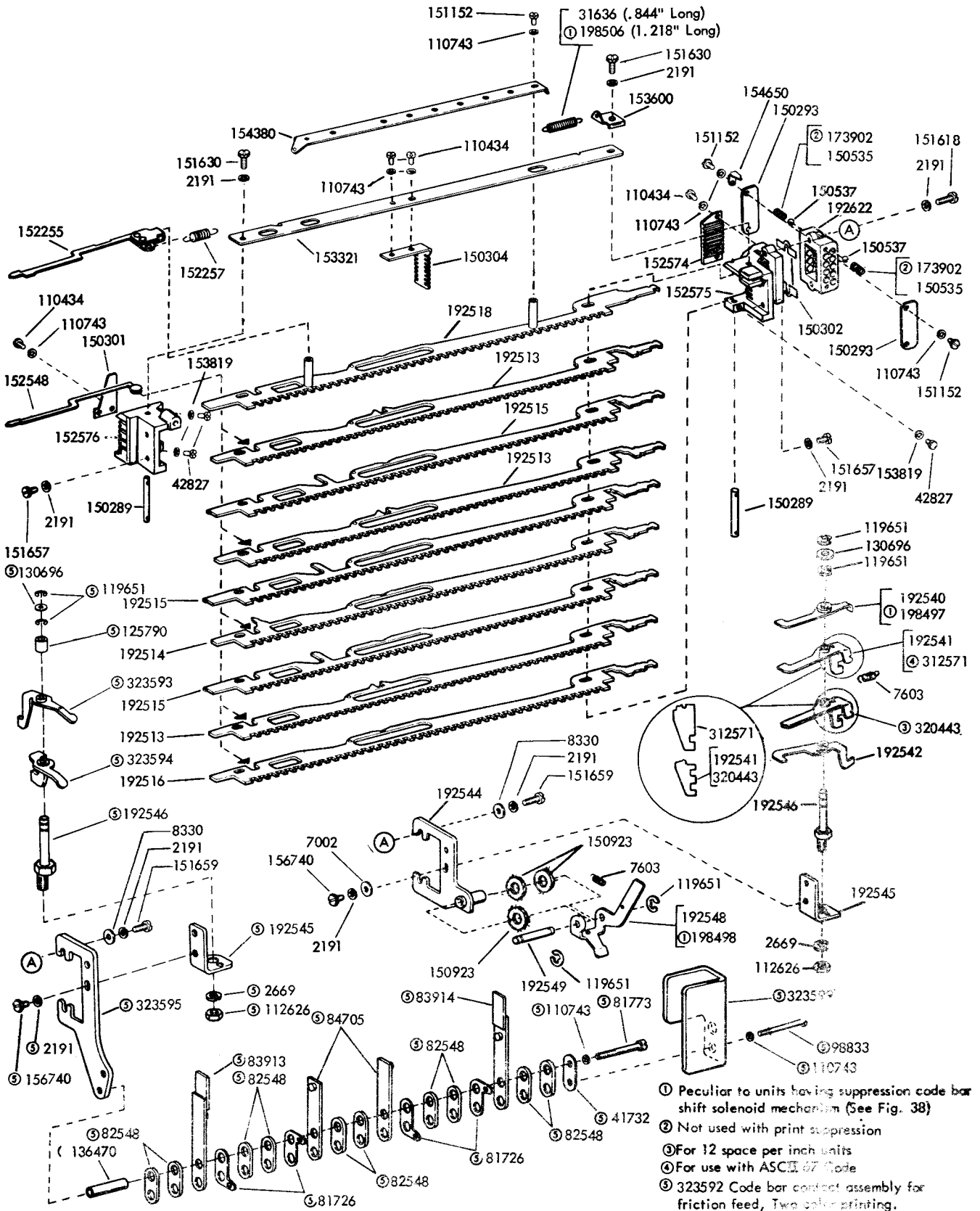


FIGURE 34. CODE BAR MECHANISM

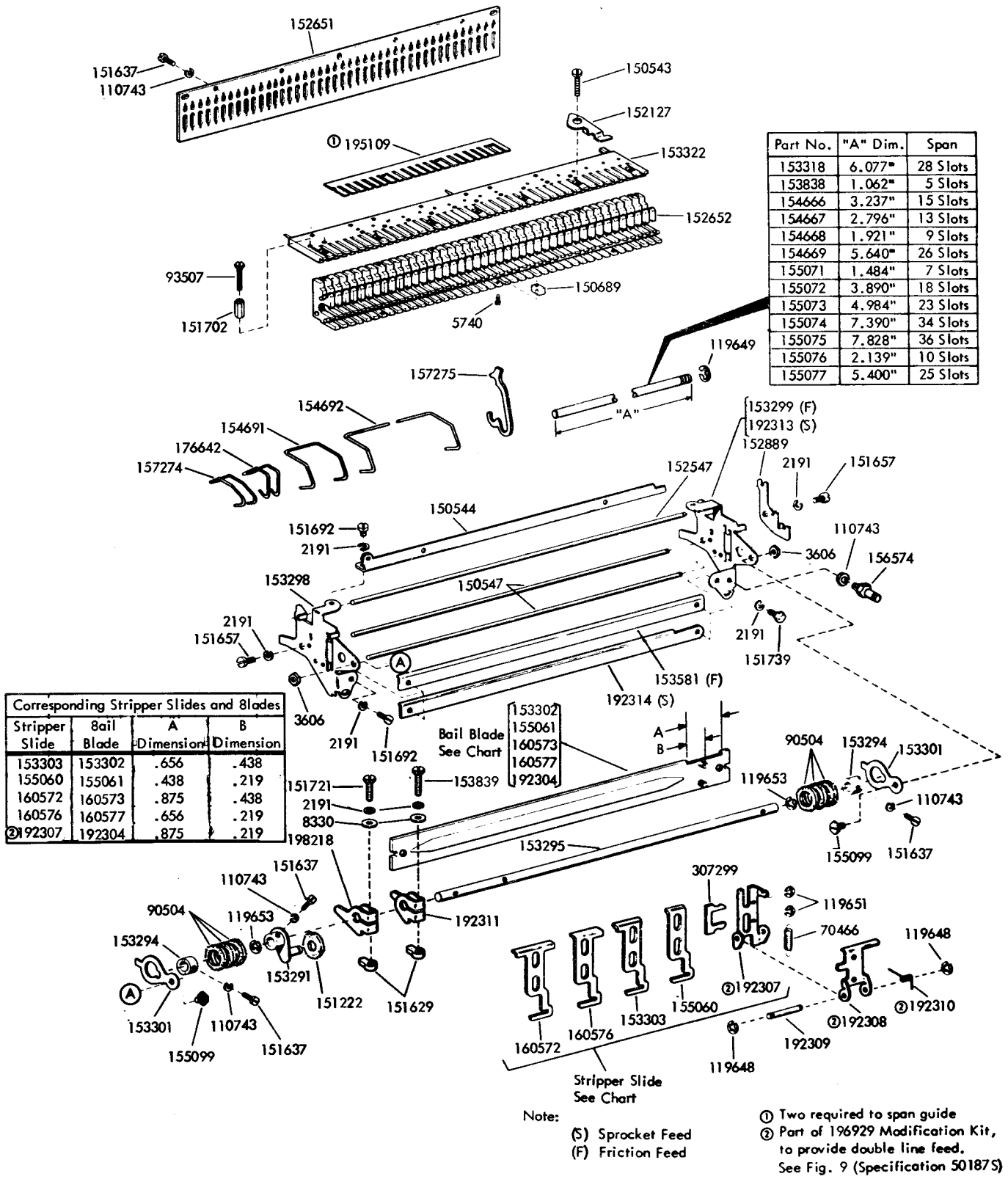


FIGURE 35. BASIC STUNT BOX COMPONENTS





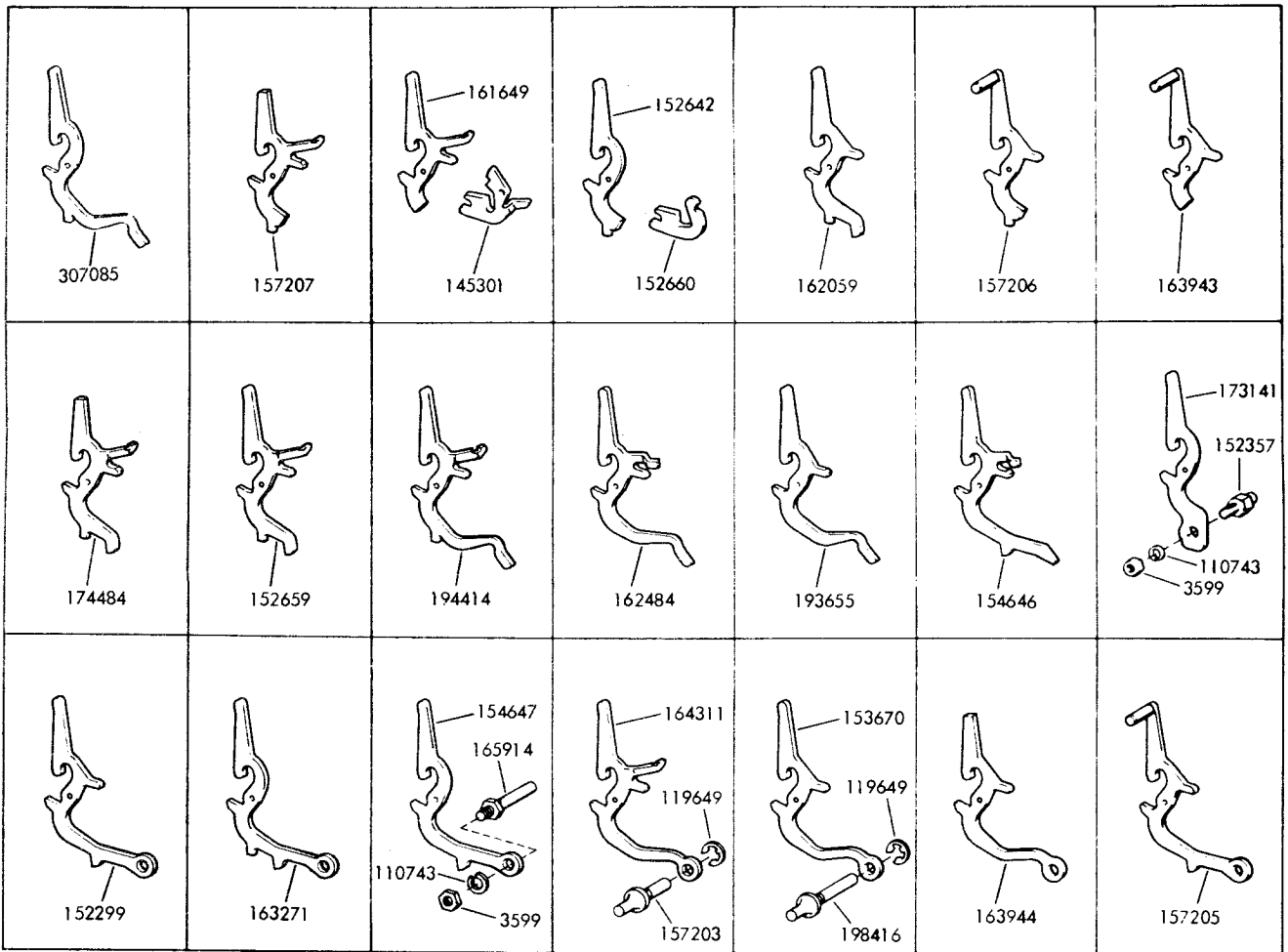
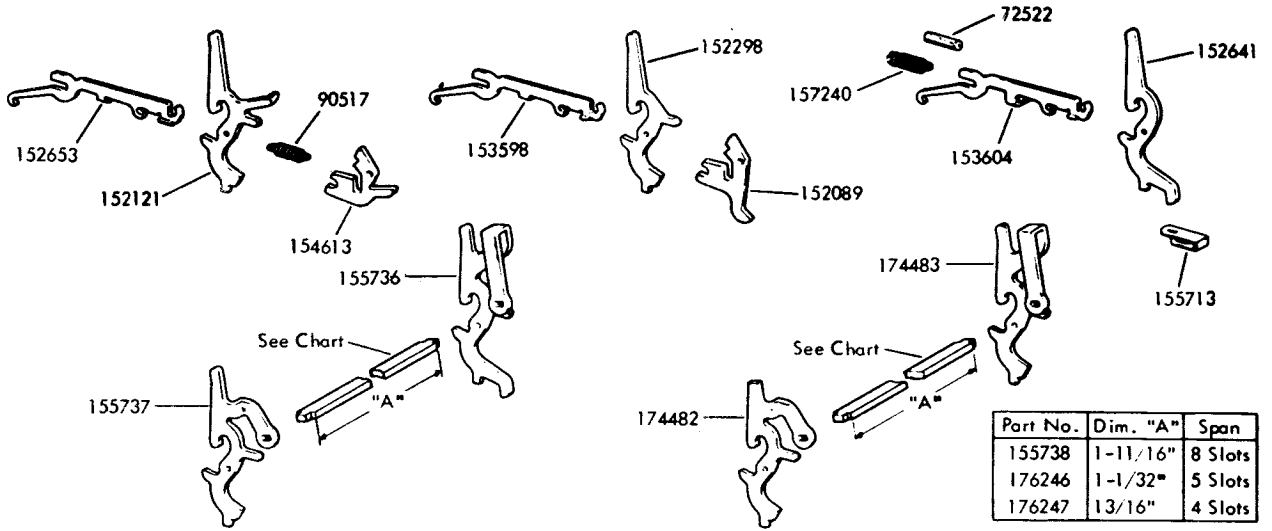


FIGURE 37. FUNCTION LEVERS AND PAWLS

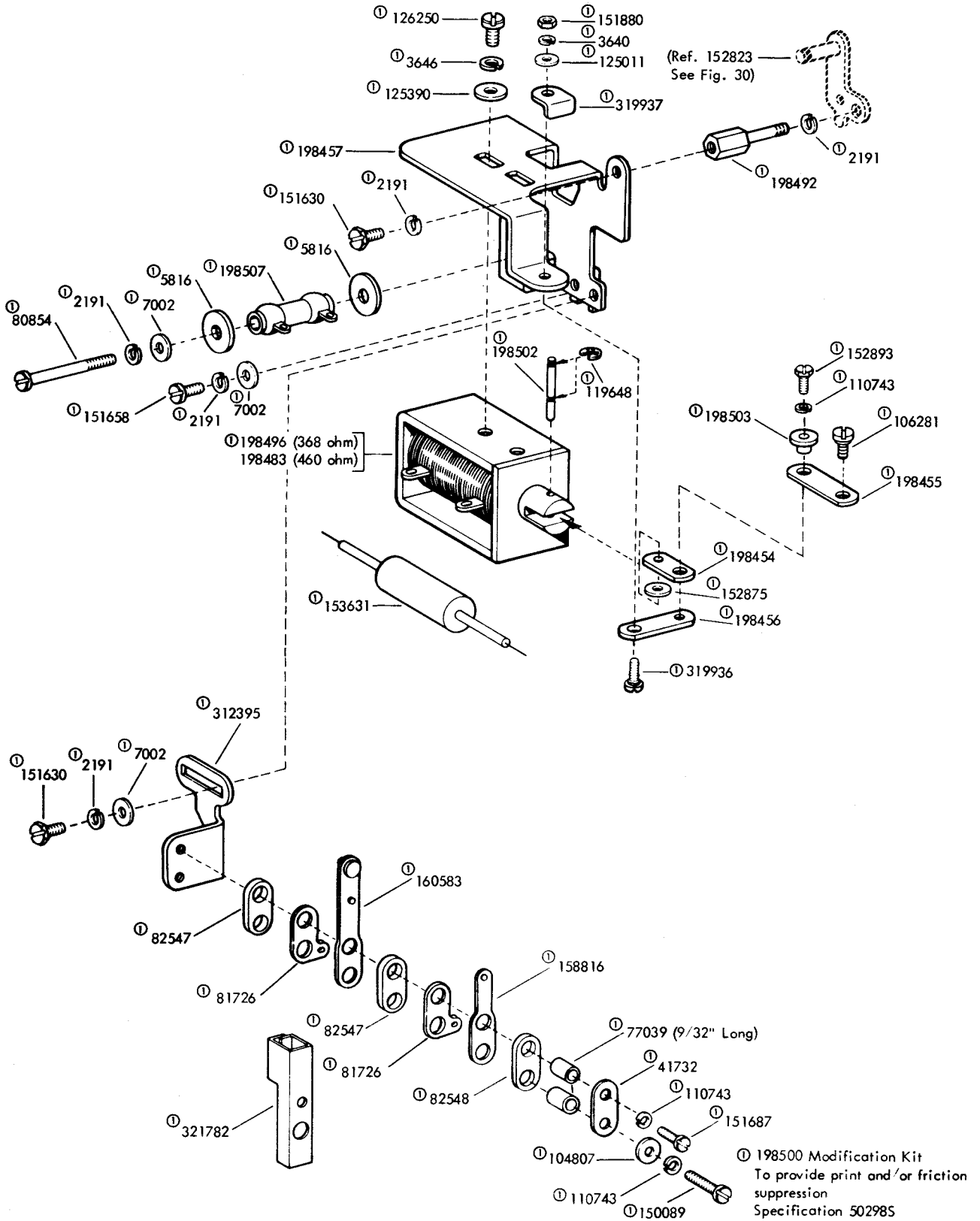
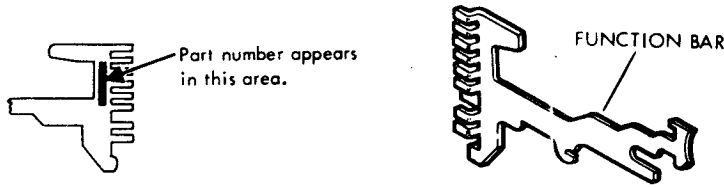


FIGURE 38. SUPPRESSION SOLENOID MECHANISM



Function Bar Number	Description of Function Character	Function Bar Function Character ASCII 63 Code	Function Bar Mnemonic Character ASCII 67 Code	Function Bar Bell System Usage Function Character ASCII 67 Code	Function Bar Private Line Usage Function Characters
152704	Universal -No Tines				
153440	Uncoded -Two Full Rows of Tines				
192459	Carriage Return	CR	CR	RETURN	CR (Return)
192460 ①	Receiver Off	DC 4 (Stop)	DC 4	TAPE	DC 4 (TAPE)
192461 ①	End of Message	EOM	ETX	ETX	EOM or ETX
192462	Receiver On	DC 2 (TAPE)	DC 2	TAPE	DC 2 TAPE)
192463	Bell	BELL	BEL	BELL	BELL
192464	Horizontal Tabulation	H-TAB	H T	TAB	H-TAB or HT
192465	Who Are You	Enquiry	WRU	WRU	WRU or ENQ
192466	End of Transmission	EOT	EOT	EOT	EOT
192467	Transmitter Off	DC 3 (X-OFF)	DC 3	X-OFF	DC 3 (X-OFF)
192468	Are You	Acknowledge	RU	ACK	ACK or RU
192469	Transmitter On	DC 1 (X-ON)	DC1	X-ON	DC 1 (X-ON)
192470	Acknowledge	ACK			ACK
192471 ①	Line Feed	LF	LF	LINE FEED	LF (Line Feed)
192472	Vertical Tabulation	V-TAB	VT	VT	V-TAB or VT
192473	Form Feed	FF	FF	FF	FF
192474	Escape (For Data Processing)	ESC			ESC
192475	Horizontal & Vertical Tabulation	H&V TAB	HT&VT	HT&VT	H&VTAB or HT&VT
192476 ①	Blank	BLANK / Idle	NUL (Blank)	NULL (Blank)	NULL (Blank)
192477	Carriage Return-Form Feed	CR-FF	CR-FF	CR-FF	CR-FF
192478	For Data Processing Function	TREMA	TREMA	TREMA	TREMA
192479	For Data Processing Function	CIRCUMFLEX	CIRCUMFLEX	CIRCUMFLEX	CIRCUMFLEX
192480	For Data Processing Function	GRAVE ACCENT	GRAVE ACCENT	GRAVE ACCENT	GRAVE ACCENT
198463	Device Control	Data Link Escape	DCo	DLE	DCo or DLE
198464	End of Address	Start of Text	EOA	STX	EOA or STX
198465	Any Symbol	GRAPHIC	GRAPHIC	GRAPHIC	GRAPHIC
198467 ②	Blank	NULL	NULL	NULL	NULL (Blank)
198468	Space	SPACE	SPACE	SPACE	SPACE
198469	Start of Message	Start of Heading	SOM	SOH	SOM or SOH
198470	Escape (For Data Processing)		ESC	ESC	ESC
198471 ②	End of Text		ETX	ETX	ETX
198472 ②	Line Feed or Vertical Tabulation		LF or VT	LF or VT	LF or VT
198473 ②	Receiver Off	Device Control	DC4	DC4	DC 4
199224	Line Feed				LF
199225	Carriage Return				CR
301761	Alternate -Mode				ALT-MODE
301762	Answer Back				V
301763	Time Stamp				TIME
301764	Upper Case - Time Stamp				UCTIME
306704	For Data Processing Function				SPECIAL
306705	For Data Processing Function				SPECIAL
306706	For Data Processing Function				SPECIAL
315532	Shift Out	SO	SO	SO	SO
315533	Shift In	SI	SI	SI	SI
317218	For Data Processing Function				SPECIAL

① Senses suppression bar in space  
 ② Senses in either mark or space condition  
 ( ) Indicates possible implementation

FIGURE 39. FUNCTION BARS



GOTHIC "12-TO-INCH"			
PALLET	NUMBER	19974 "TH"	324465 "DG"
A	155432	X	X
B	155433	X	X
C	155434	X	X
D	155435	X	X
E	155436	X	X
F	155437	X	X
G	155438	X	X
H	155439	X	X
I	155440	X	X
J	155441	X	X
K	155442	X	X
L	155443	X	X
M	155444	X	X
N	155445	X	X
O	155446	X	X
P	155447	X	X
Q	155448	X	X
R	155449	X	X
S	155450	X	X
T	155451	X	X
U	155452	X	X
V	155453	X	X
W	155454	X	X
X	155455	X	X
Y	155456	X	X
Z	155457	X	X
1	155458	X	X
2	155459	X	X
3	155460	X	X
4	155461	X	X
5	155462	X	X
6	155463	X	X
7	155464	X	X
8	155465	X	X
9	155466	X	X
.	157636	X	X
.	157637	X	X
.	157638	X	X
.	194886	X	X
.	157642	X	X
?	157644	X	X
)	157645	X	X
(	157646	X	X
\$	157648	X	X
/	155469	X	X
^	199990	X	X
v	199989	X	X
+	161366	X	X
+	161369	X	X
+	155479	X	X
=	194335	X	X
>	194208	X	X
<	194209	X	X
[	163197	X	X
]	163198	X	X
]	199987	X	X
*	194336	X	X
~	155871	X	X
!	157647	X	X
:	157641	X	X
:	157640	X	X
:	155483	X	X
:	157639	X	X
8	155467	X	X
%	155470	X	X
#	155473	X	X
@	155480	X	X
Ⓢ	157658	X	X
=	157678	X	X
	195200	X	X
—	305584	X	X
—	305589	X	X
α	305590	X	X

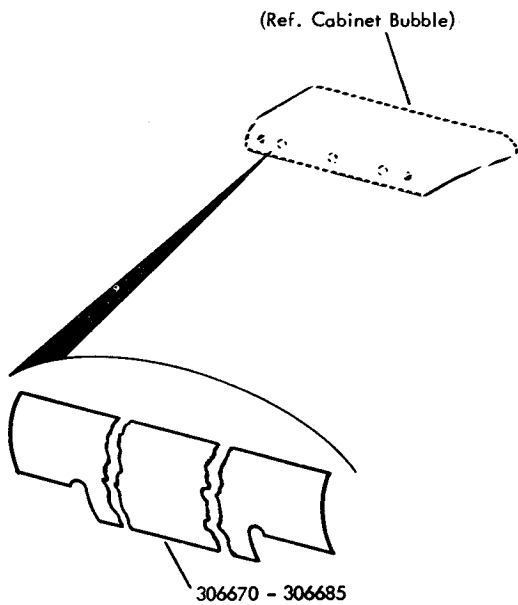
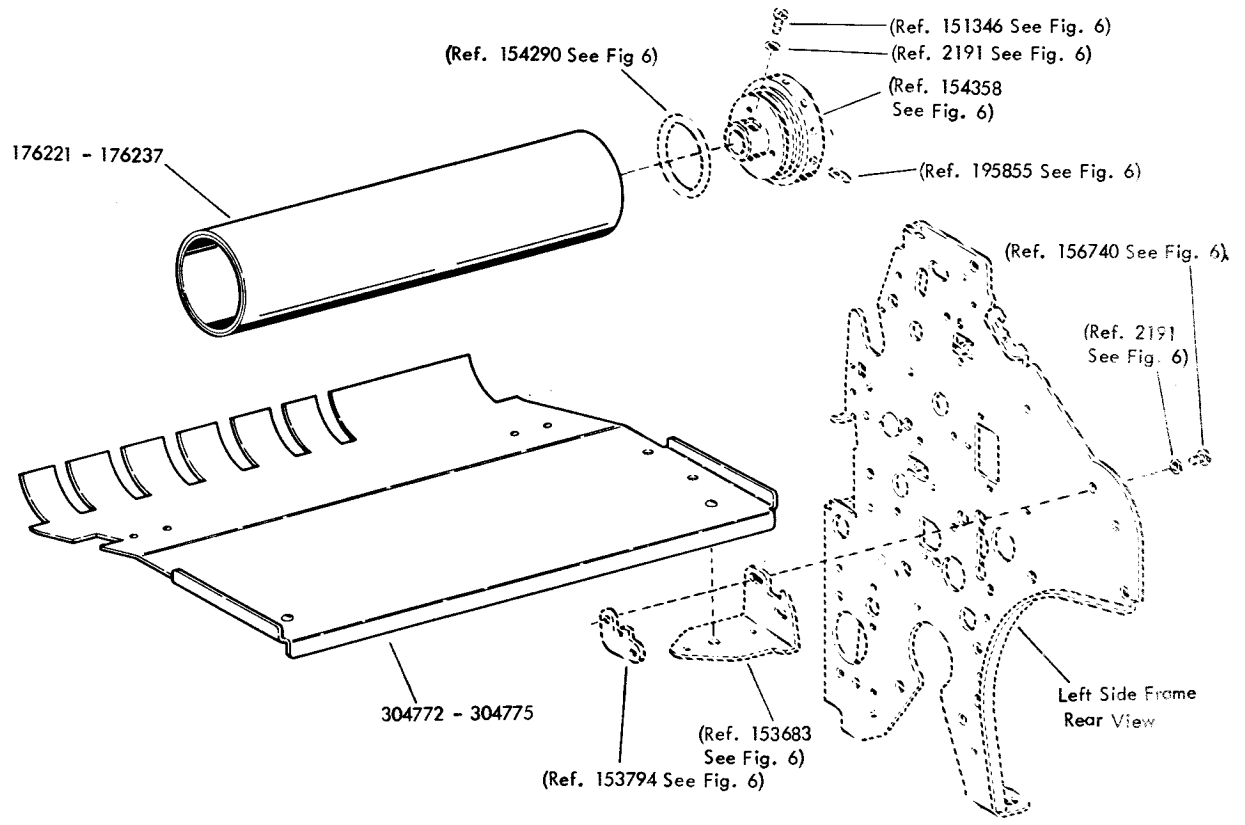
LONG GOTHIC STYLE			
PALLET	NUMBER	199974 "TJ"	
A	155618	X	
B	155619	X	
C	155620	X	
D	155621	X	
E	155622	X	
F	155623	X	
G	155624	X	
H	155625	X	
I	155626	X	
J	155627	X	
K	155628	X	
L	155629	X	
M	155630	X	
N	155631	X	
O	155632	X	
P	155633	X	
Q	155634	X	
R	155635	X	
S	155636	X	
T	155637	X	
U	155638	X	
V	155639	X	
W	155640	X	
X	155641	X	
Y	155642	X	
Z	155643	X	
1	155644	X	
2	155645	X	
3	155646	X	
4	155647	X	
5	155648	X	
6	155649	X	
7	155650	X	
8	155651	X	
9	155652	X	
.	155672	X	
.	155671	X	
.	155673	X	
.	155653	X	
.	155670	X	
.	155654	X	
.	155655	X	
.	155656	X	
.	155668	X	
.	155658	X	
.	155657	X	
.	155669	X	
\$	155667	X	
&	157649	X	
#	157659	X	
%	157660	X	
*	157662	X	
+	194037	X	
+	194039	X	
+	194019	X	
=	157678	X	
>	194885	X	
<	194884	X	
[	163197	X	
]	163198	X	
\	179088	X	
@	157726	X	

LARGE GOTHIC PALLETS			
PALLET	310309 "TR"	321705 "DB"	
A	157729	157729	
B	157730	321780	
C	157731	321681	
D	157732	321695	
E	157733	321698	
F	157734	321682	
G	157735	157735	
H	157736	321683	
I	157737	157737	
J	157738	321684	
K	157739	157739	
L	157740	321697	
M	157741	157741	
N	157742	157742	
O	157743	321696	
P	157744	321685	
Q	157745	321700	
R	157746	321686	
S	157747	157747	
T	157748	157748	
U	157749	321699	
V	157750	157750	
W	157751	157751	
X	157752	157752	
Y	157753	321687	
Z	157754	157754	
1	157755	157755	
2	157756	157756	
3	157757	157757	
4	157758	157758	
5	157759	157759	
6	157760	157760	
7	157761	157761	
8	157762	157762	
9	157763	157763	
.	157765	157765	
.	157766	157766	
.	157767		
.	157768	157768	
.	157769	157769	
.	157770	157770	
.	157771	157771	
.	157772	157772	
.	157773	157773	
.	157775		
.	157774		
.	157776		
S	157777	157777	
&	157778	157778	
#	157779		
%	157816	157816	
<	310657	321688	
>	310658	321689	
=	310659		
C	310660	321694	
∩	310661		
⊙	310662	310662	
\	310663	321692	
↑	310664	321690	
←	310665		
+	310666	157671	
*	157820	321691	
1/8		163308	
1/4		163309	
1/2		163311	
3/4		163313	
7/8		163314	
3/8		321702	
5/8		321703	

GOTHIC STYLE			
PALLET	NUMBER	307180 "TN"	
A	159752	X	
B	159753	X	
C	159754	X	
D	159755	X	
E	159756	X	
F	159757	X	
G	159758	X	
H	159759	X	
I	159760	X	
J	159761	X	
K	159762	X	
L	159763	X	
M	159764	X	
N	159765	X	
O	159766	X	
P	159767	X	
Q	159768	X	
R	159769	X	
S	159770	X	
T	159771	X	
U	159772	X	
V	159773	X	
W	159774	X	
X	159775	X	
Y	159776	X	
Z	159777	X	
1	159778	X	
2	159779	X	
3	159780	X	
4	159781	X	
5	159782	X	
6	159783	X	
7	159784	X	
8	159785	X	
9	159786	X	
.	157636	X	
.	157637	X	
.	157639	X	
.	157641	X	
.	157642	X	
.	157644	X	
.	157645	X	
.	157646	X	
.	157671	X	
.	157678	X	
.	157638	X	
.	157640	X	
.	157790	X	
.	157791	X	
.	157804	X	
.	157648	X	
.	159788	X	
.	157662	X	
.	157647	X	
.	179091	X	
.	179090	X	
.	179089	X	
.	157717	X	
.	157720	X	

COMBINATION STYLE			
PALLET	NUMBER	197997 "TF"	306090 "TP"
A	159752	X	X
B	159753	X	X
C	159754	X	X
D	159755	X	X
E	159756	X	X
F	159757	X	X
G	159758	X	X
H	159759	X	X
I	159760	X	X
J	159761	X	X
K	159762	X	X
L	159763	X	X
M	159764	X	X
N	159765	X	X
O	159766	X	X
P	159767	X	X
Q	159768	X	X
R	159769	X	X
S	159770	X	X
T	159771	X	X
U	159772	X	X
V	159773	X	X
W	159774	X	X
X	159775	X	X
Y	159776	X	X
Z	159777	X	X
1	159778	X	X
2	159779	X	X
3	199457	X	X
4	199458	X	X
5	199459	X	X
6	199460	X	X
7	199461	X	X
8	199462	X	X
9	199463	X	X
.	157636	X	X
.	157637	X	X
.	157639	X	X
.	157642	X	X
.	157643	X	X
.	157644	X	X
.	157645	X	X
.	157646	X	X
.	157648	X	X
.	157649	X	X
.	157659	X	X
.	157662	X	X
.	157664	X	X
.	157666	X	X
.	157671	X	X
.	160779	X	X
.	195064	X	X
.	195065	X	X
.	195066	X	X
.	195067	X	X
.	195069	X	X
.	195070	X	X
.	195071	X	X
.	195072	X	X
.	195205	X	X
.	195206	X	X
.	195207	X	X
.	157671	X	X

FIGURE 41. TYPEPALLET CHARTS

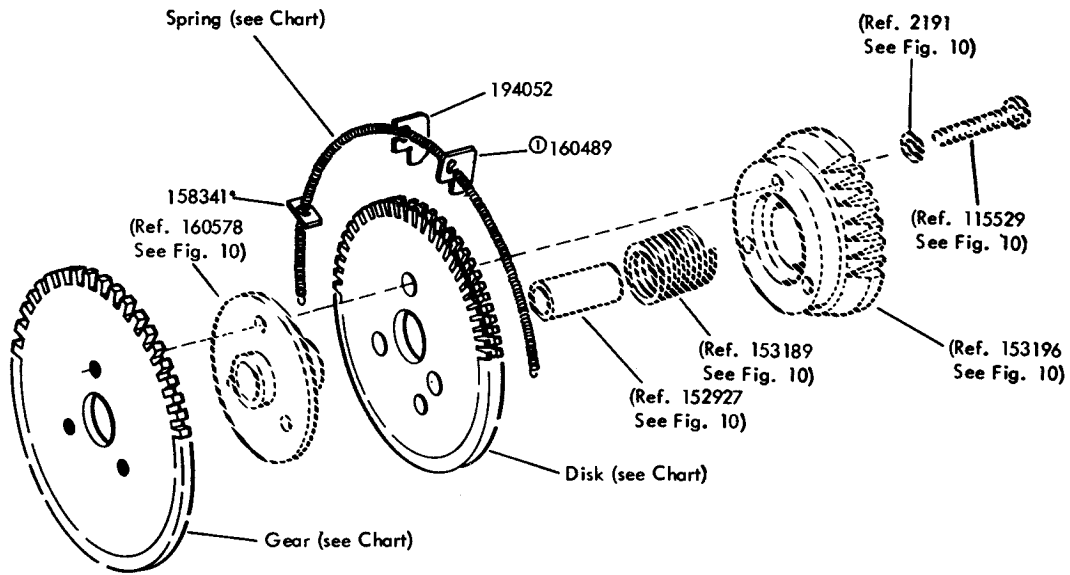


Paper Widths	Paper Guide	Modification Kit Paper Handling Parts		
		Kit Number	Platen	Form Guide
3 5/8	304772	306696	176237	306670
4	304773	306687	176236	306671
4 1/4	304774	306688	176235	306672
4 5/16	304775	306689	176234	306672
4 1/2	304772	306690	176233	306673
5	304773	306691	176232	306674
5 1/2	304772	306692	176231	306675
5 3/4	304774	306693	176230	306676
6	304773	306694	176229	306677
6 1/4	304775	306695	176228	306678
6 3/8	304774	306696	176227	306679
6 1/2	304772	306697	176226	306680
7	304773	306698	176225	306681
7 1/2	304772	306699	176224	306682
8	304773	306700	176223	306683
8 1/2	304772	306701	176222	306684
9	304773	306702	176221	306685

Note: For Paper Fingers, See Figure 6.

Specification 5792S covers all paper handling modification kits.

FIGURE 42. SPROCKET FEED PAPER HANDLING MODIFICATION KITS



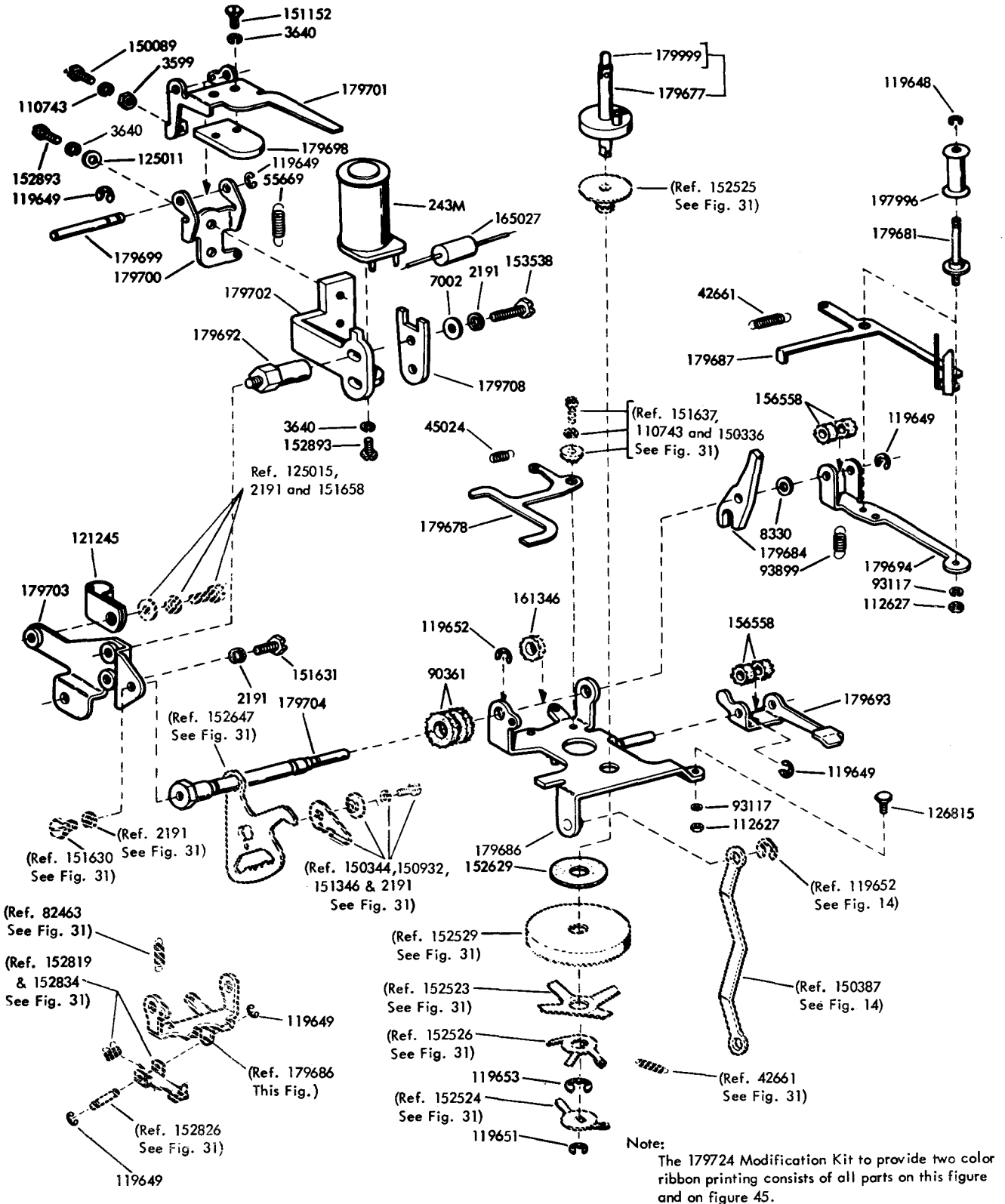
Form Length in inches	Mod. Kit No.	Gear No.	Disk No.	Spring No.
8, 4, 2	154760	153198	160505	160527
8-1/2	154761	153199	160506	160528
9, 4-1/2	154762	153200	160507	160529
9-1/2	154763	153201	160508	160530
10, 5	154764	153202	160509	160531
11, 5-1/2	154765	153203	160510	160532
12, 6, 3	154766	153204	160511	160533
13, 6-1/2	154767	153205	160512	160534
14, 7, 3-1/2	154768	153206	160513	160535
15, 7-1/2	154769	153207	160514	160536
14-2/3, 7-1/3, 3-2/3	192706	161250	192704	160536

① No longer available, use 194052

Specification 500425 covers all  
vertical tabulation modification kits

FIGURE 43. VERTICAL TABULATION MODIFICATION KITS

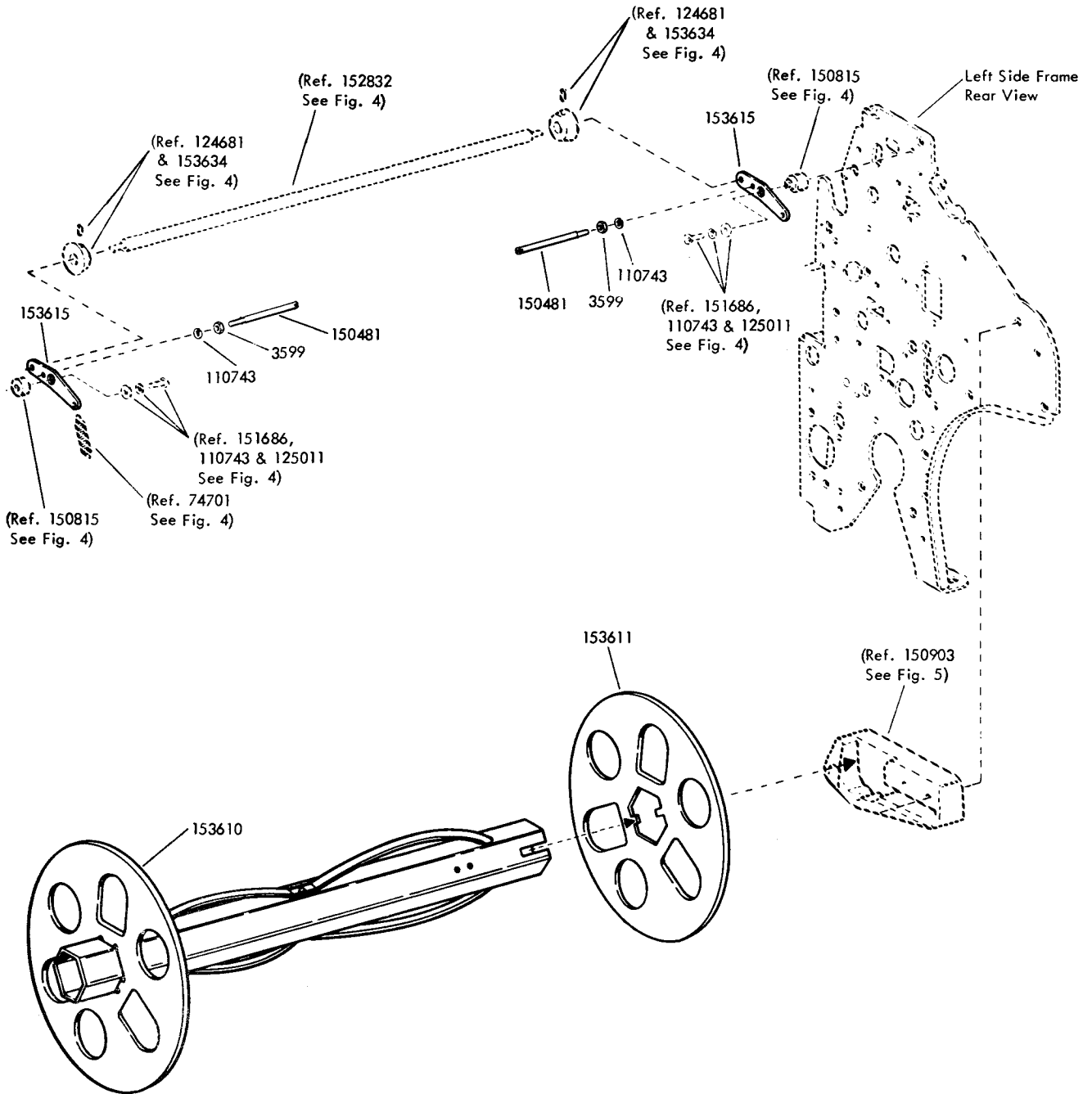




Specification 50150S

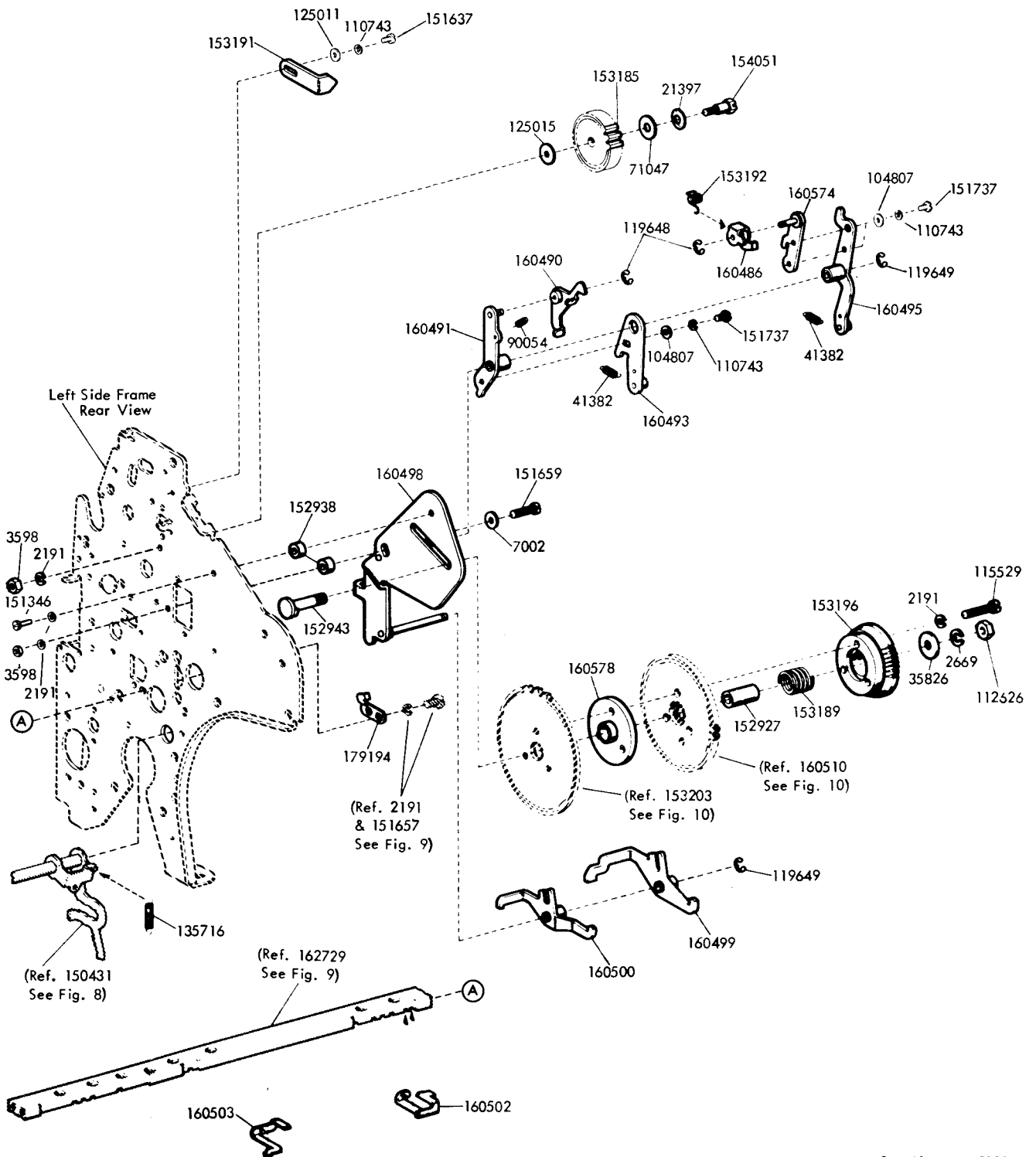
FIGURE 44. RIGHT SIDE-RIBBON FEED MECHANISM FOR TWO COLOR RIBBON PRINTING  
(Continued on next page)





Specification 57895

FIGURE 46. 152340 MODIFICATION KIT TO PROVIDE MULTI - COPY PAPER HANDLING



Specification 500045

FIGURE 47. 154771 MODIFICATION KIT TO PROVIDE VERTICAL TABULATION

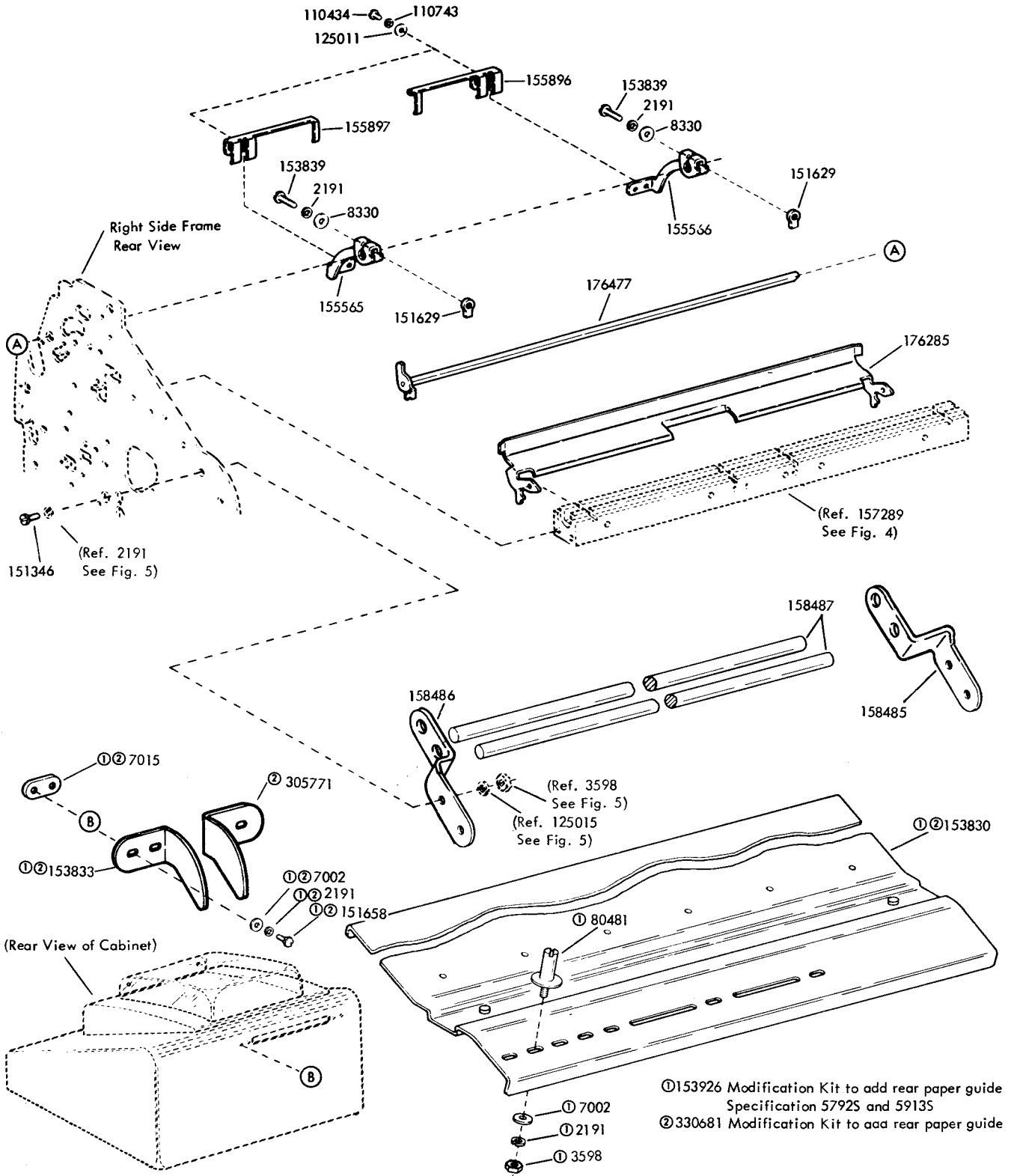


FIGURE 48. 154798 MODIFICATION KIT TO PROVIDE SUPERFOLD FRICTION FEED PAPER HANDLING



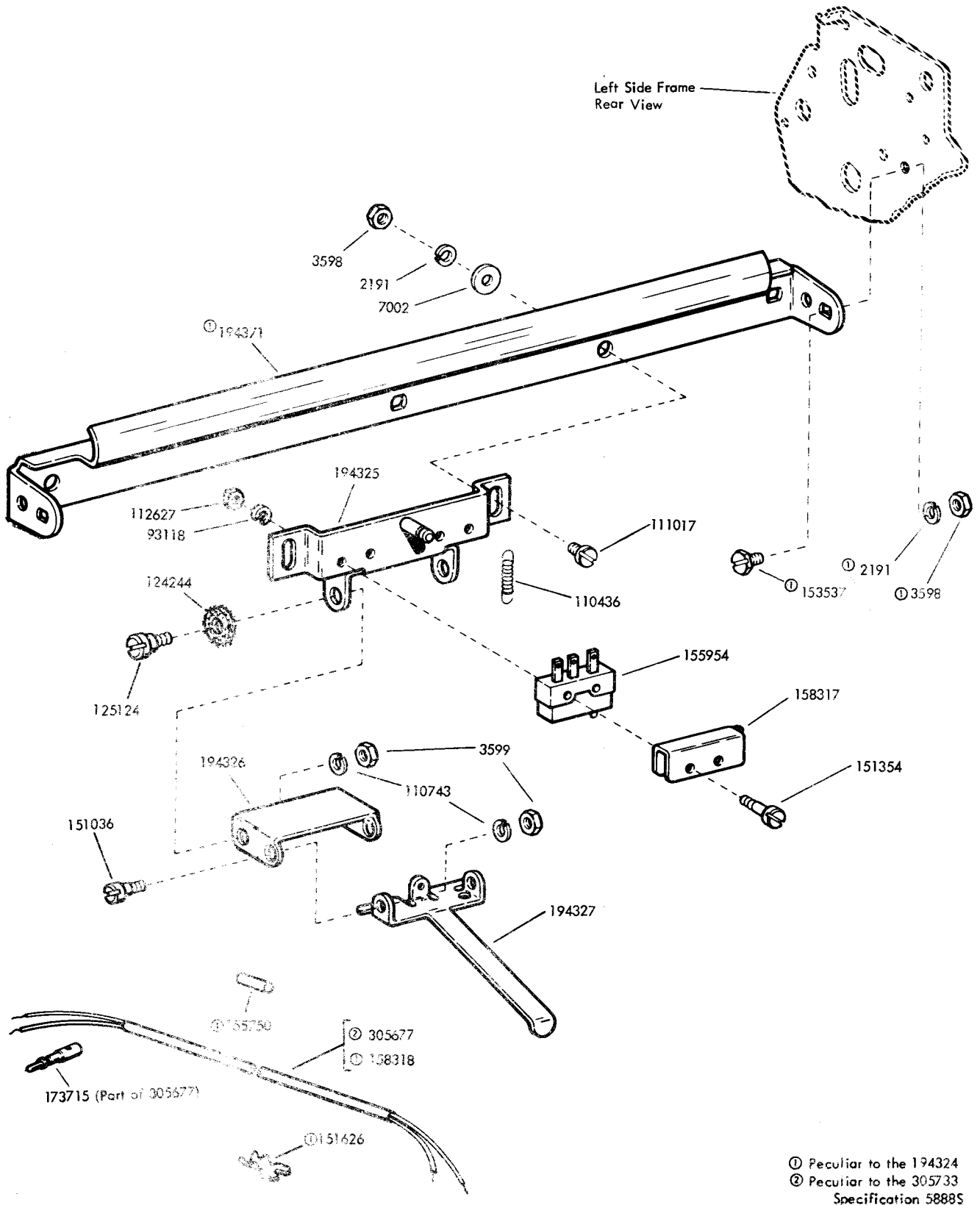


FIGURE 50. 194324 & 305733 MODIFICATION KITS TO PROVIDE PAPER-OUT ALARM SWITCH

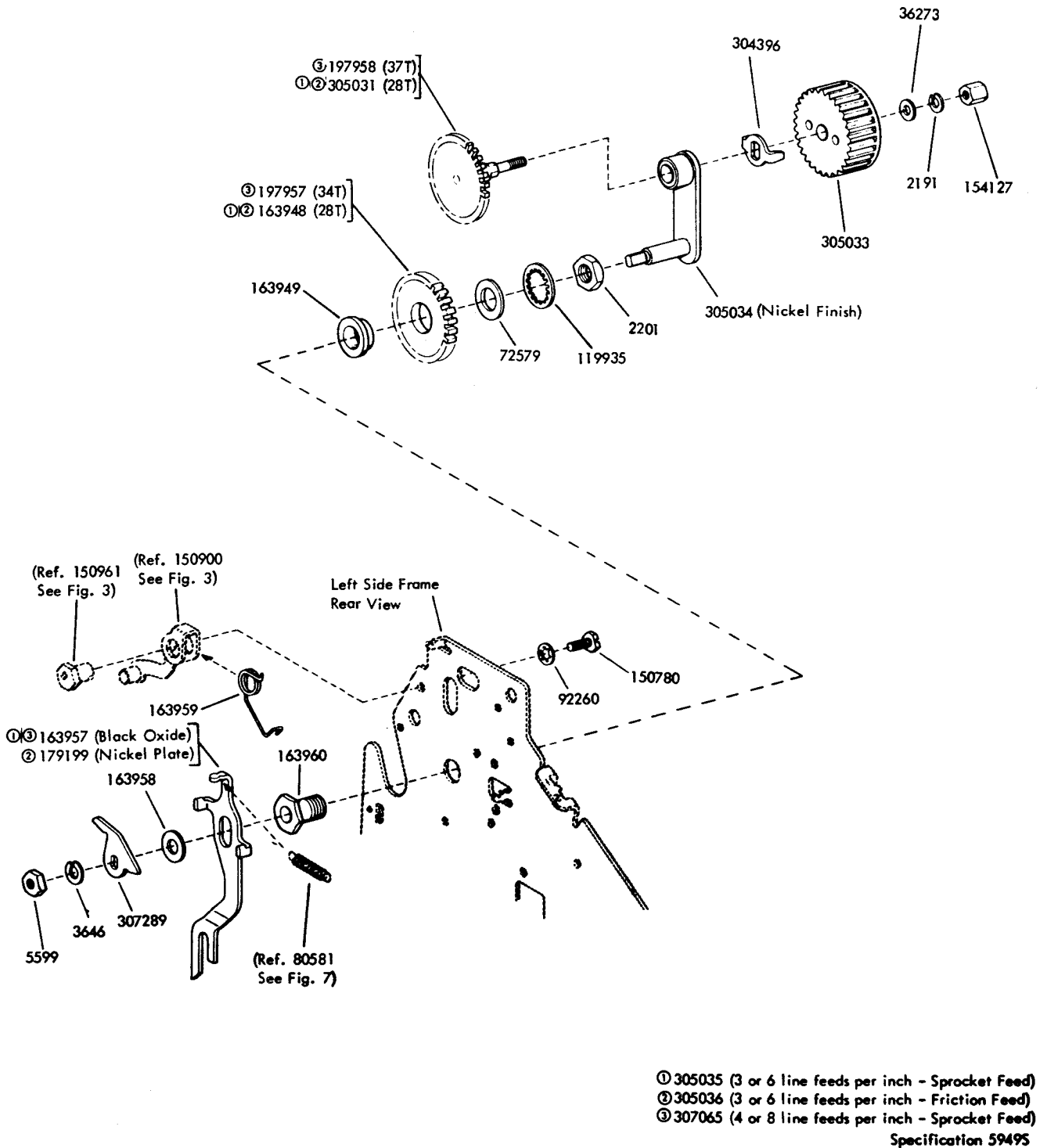
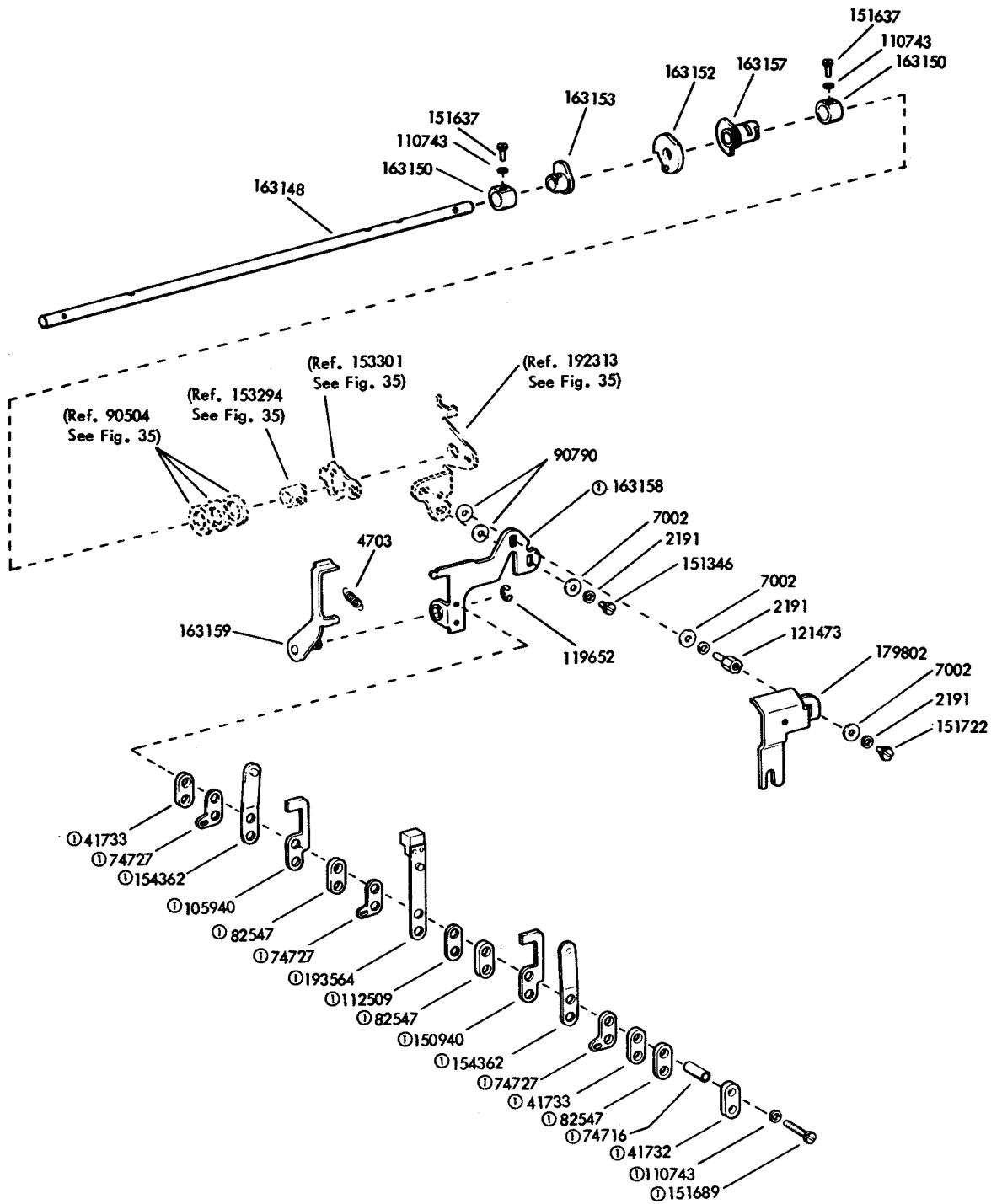


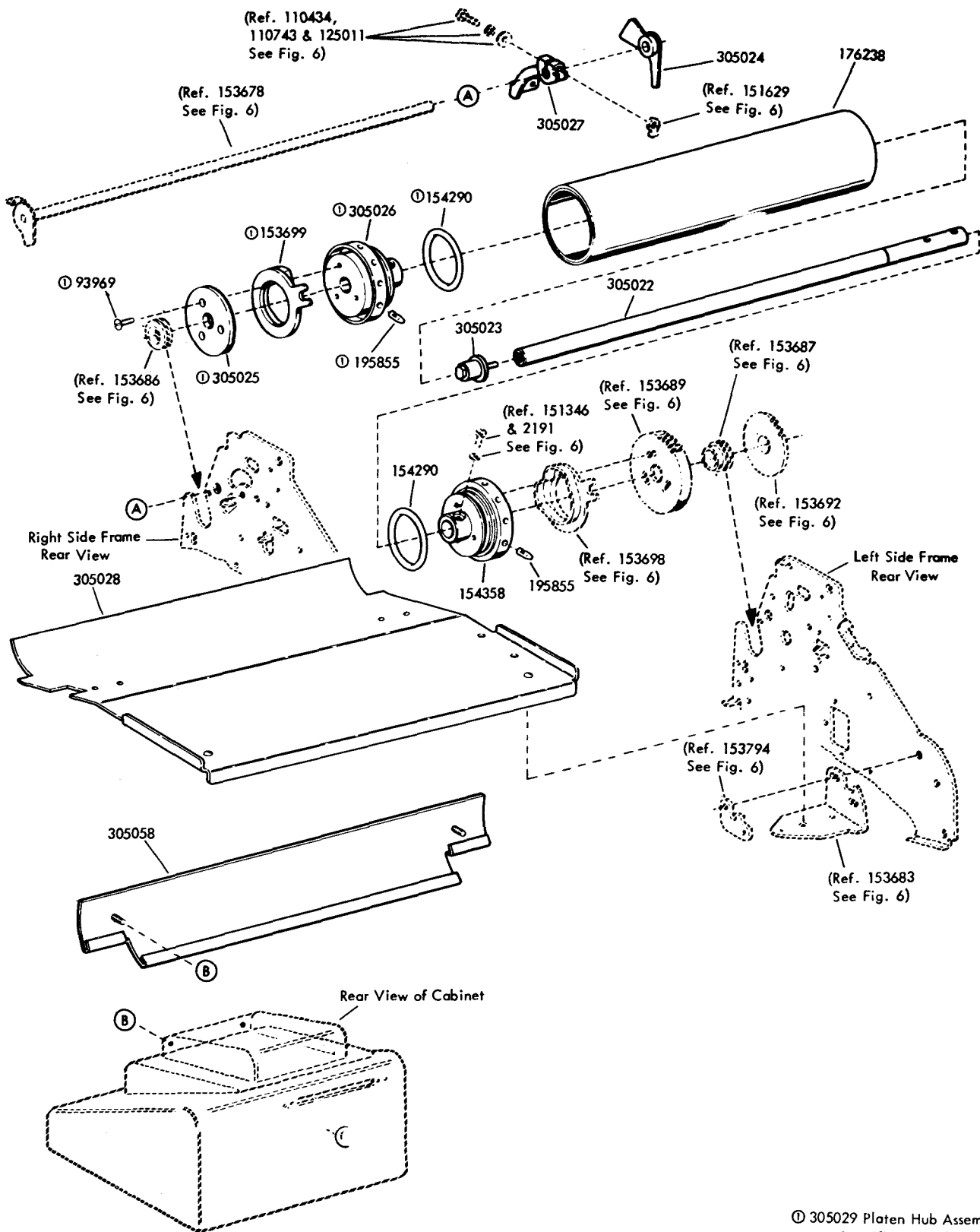
FIGURE 51. 305035, 305036 and 307065 MODIFICATION KITS TO PROVIDE MANUAL PLATEN LINE FEED





① 163147 Contact Assembly  
Specification 58045

FIGURE 52. 163146 MODIFICATION KIT TO PROVIDE UNIVERSAL CONTACT



Ⓞ 305029 Platen Hub Assembly  
Specification 503865

FIGURE 53. 305037 MODIFICATION KIT TO ADAPT SPROCKET FEED PRINTERS TO 9 1/2 INCH FORM WIDTHS

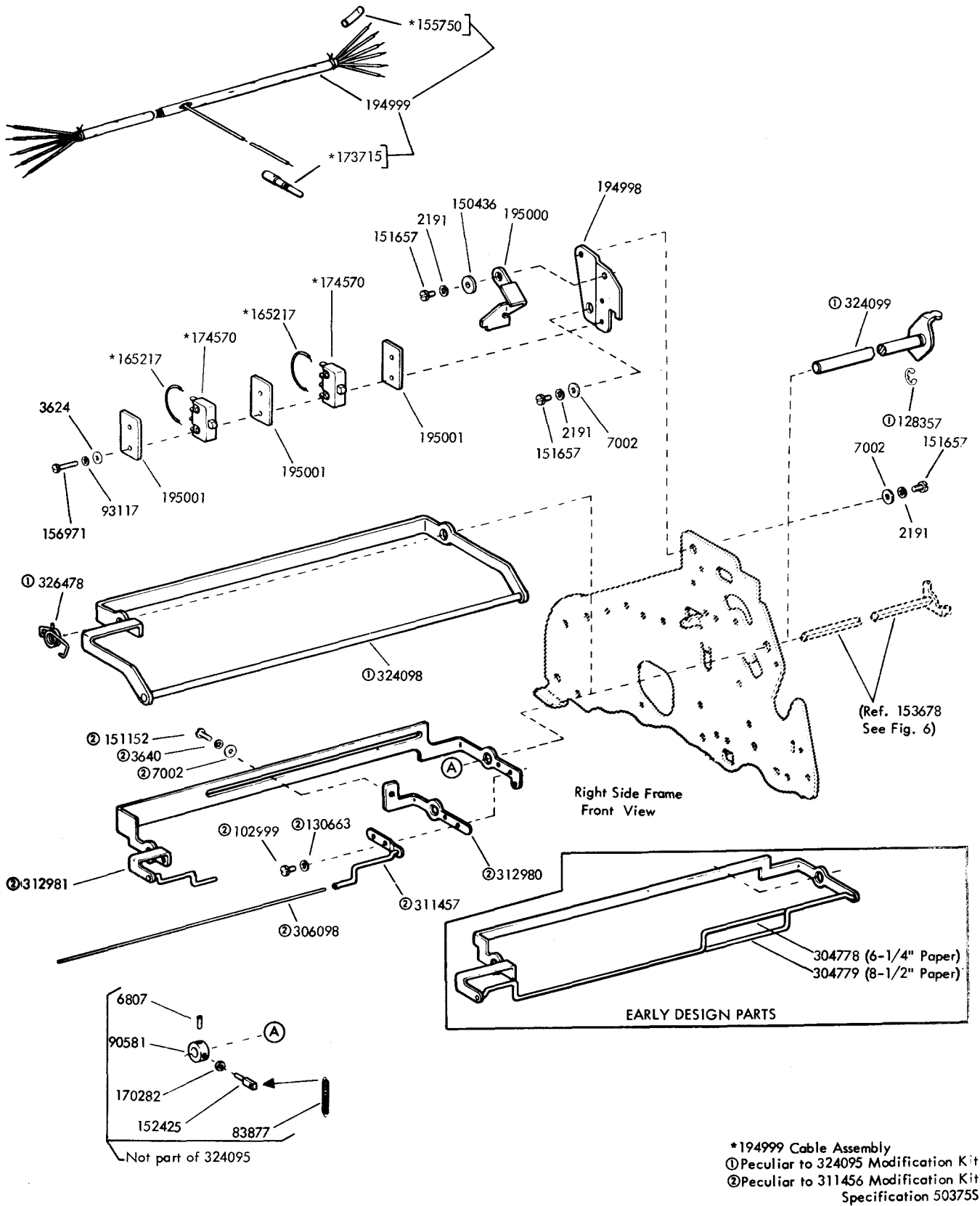
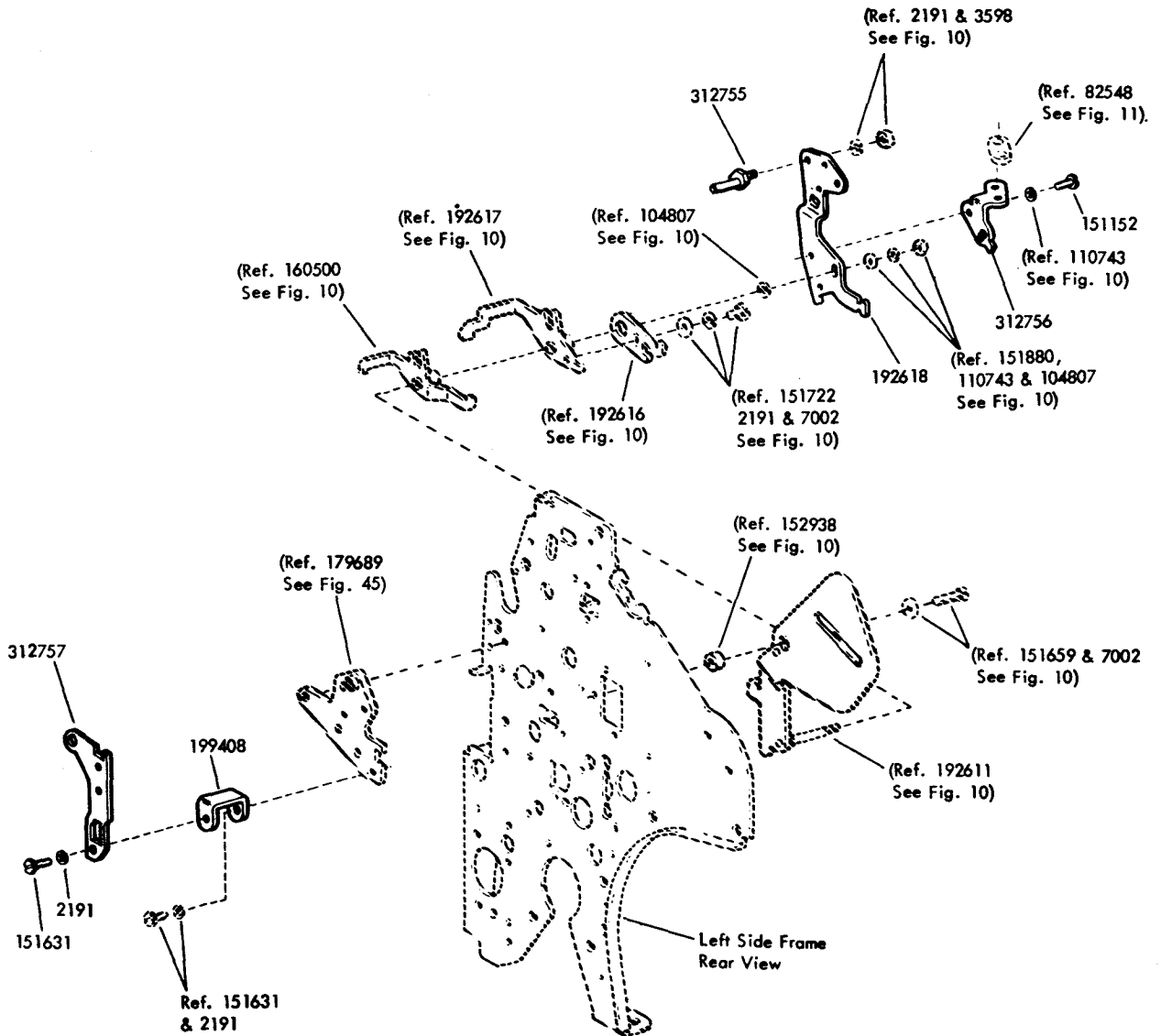
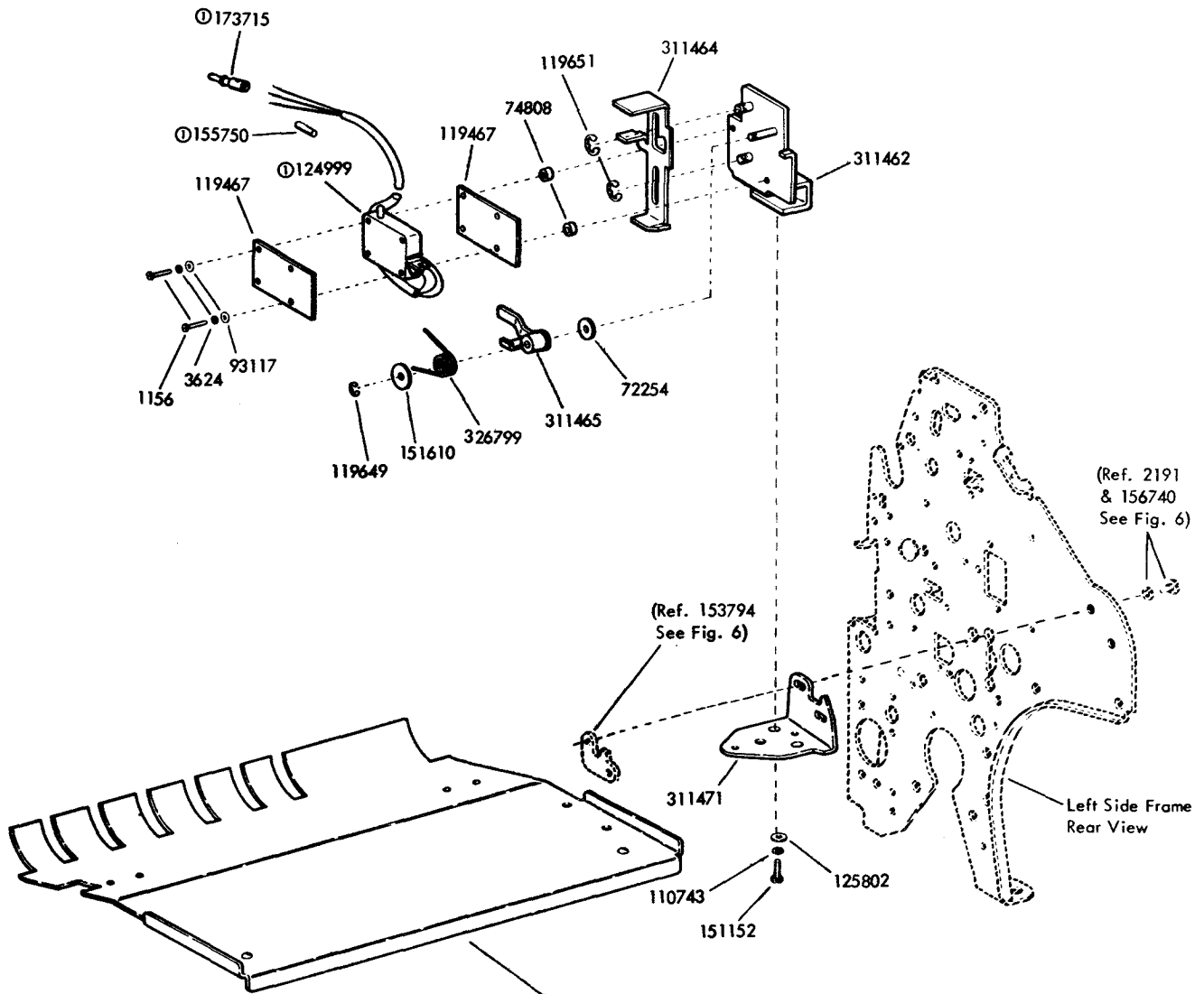


FIGURE 54. 311456 & 324095 MODIFICATION KIT TO PROVIDE PAPER JAM ALARMS



Specification 501505

FIGURE 55. 312711 MODIFICATION KIT TO ADAPT UNITS WITH A VERTICAL TABULATING MECHANISM TO USE THE 179724 MODIFICATION KIT

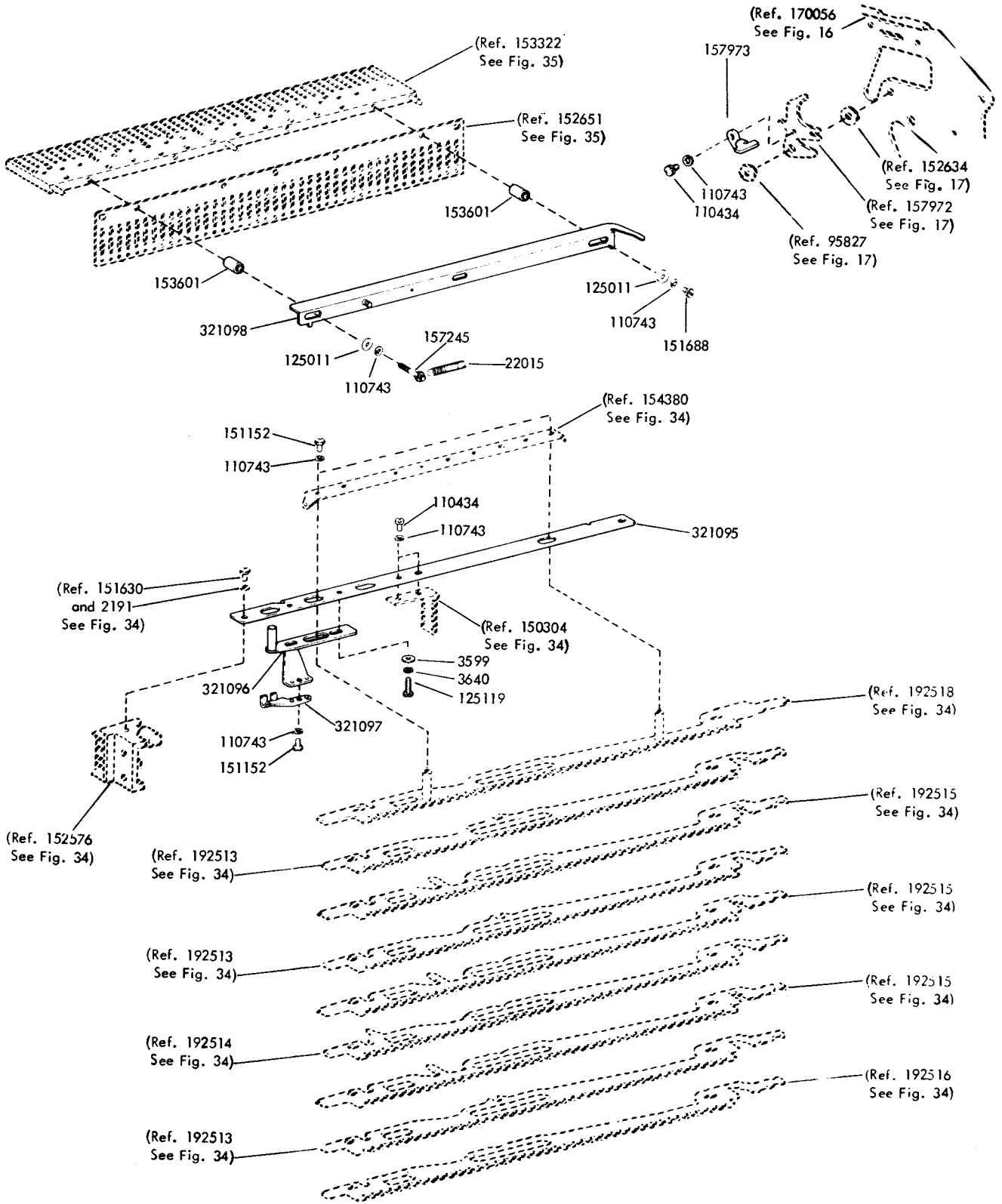


- ② 311466 (3-5/8", 4-1/2", 5-1/2", 6-1/2", 7-1/2" or 8-1/2" Platen)
- ③ 311467 (3", 4", 5", 6", 7", 8" or 9" Platen)
- ④ 311468 (4-1/4", 5-3/4" or 6-3/8" Platen)
- ⑤ 311469 (4-5/16" or 6-1/4" Platen)

- ① 311730 Cable Assembly
- ② Peculiar to 311458 Modification Kit
- ③ Peculiar to 311459 Modification Kit
- ④ Peculiar to 311460 Modification Kit
- ⑤ Peculiar to 311461 Modification Kit

Specification 504685

FIGURE 56. 311458, 311459, 311460 and 311461 MODIFICATION KITS TO ADD ADJUSTABLE LAST FORM ALARM



Specification 504715

FIGURE 57. 321099 MODIFICATION KIT TO PROVIDE AUTOMATIC CARRIAGE RETURN AND LINE FEED

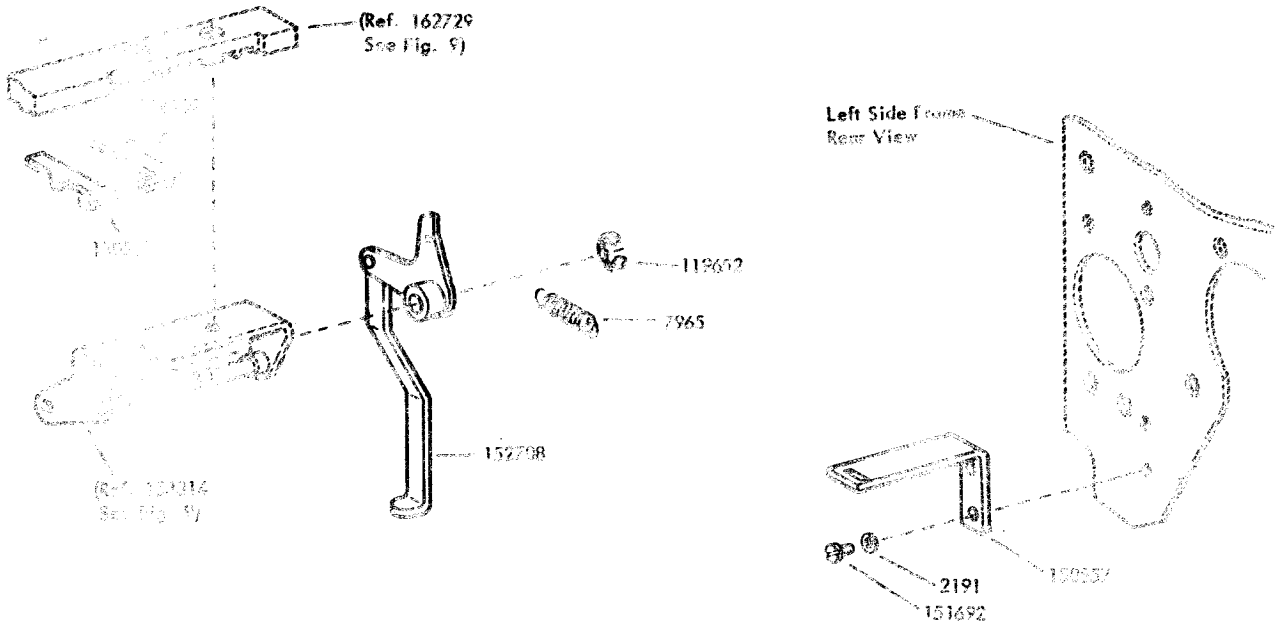


FIGURE 58. 152350 MODIFICATION KIT TO PROVIDE KEYBOARD LOCK

Specification 502245

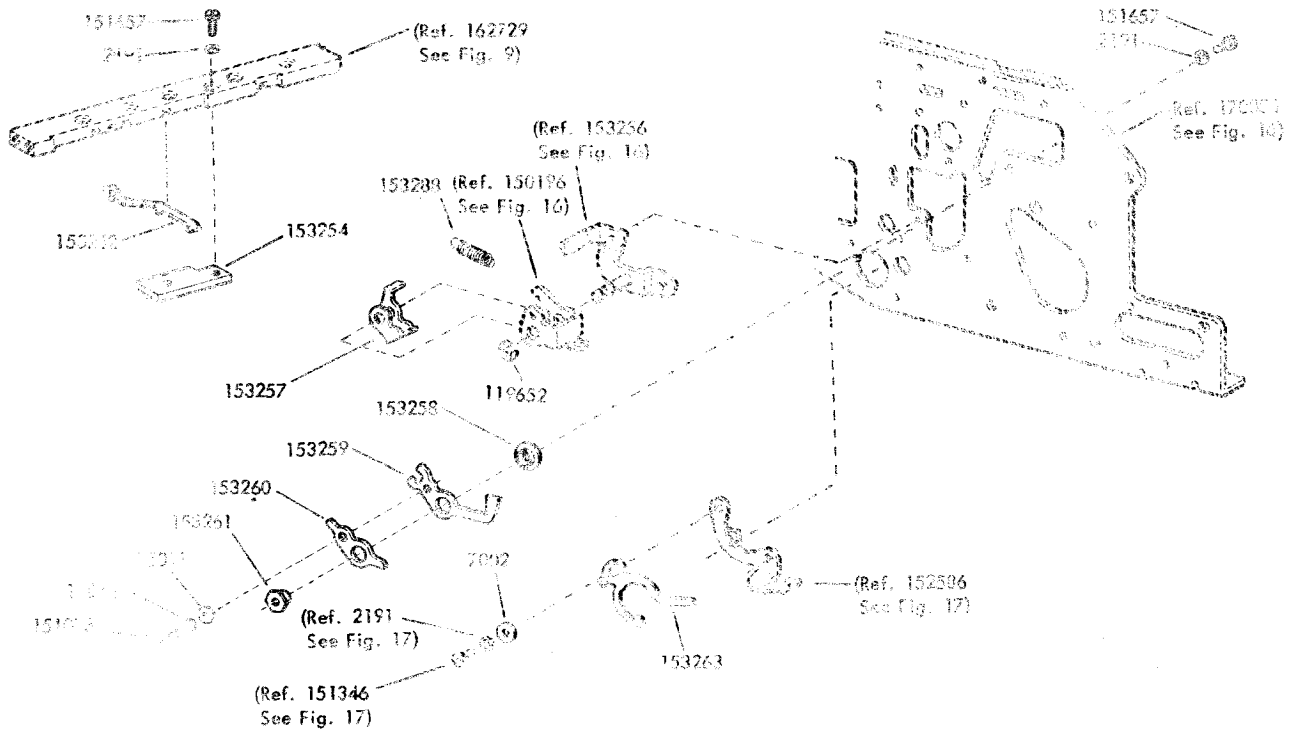
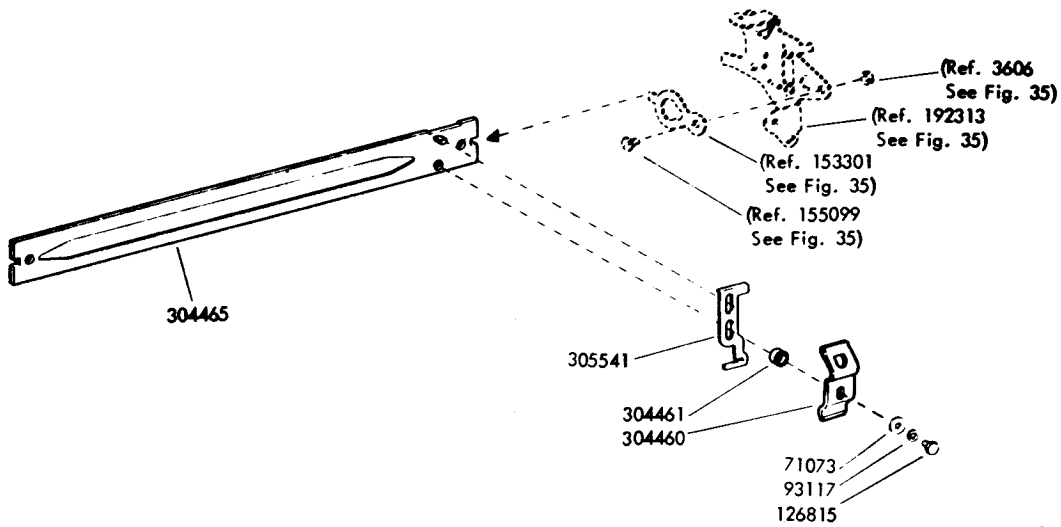


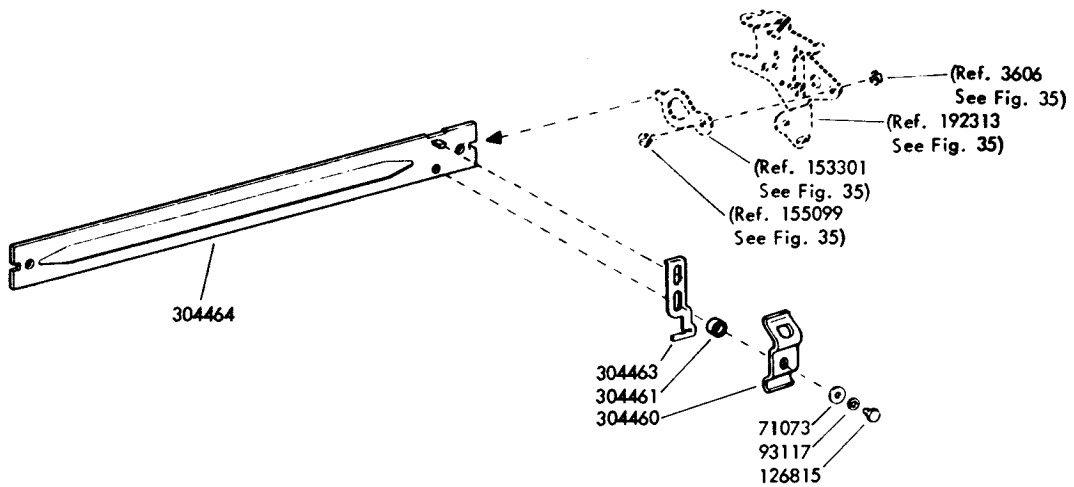
FIGURE 59. 157510 MODIFICATION KIT TO PROVIDE LOCAL BACKSPACE

Specification 57665



Specification 503525

FIGURE 60. 305540 MODIFICATION KIT TO PROVIDE A YIELD MECHANISM FOR THE LINE FEED STRIPPER SLIDE (Function Box Slots 39, 40 & 41)

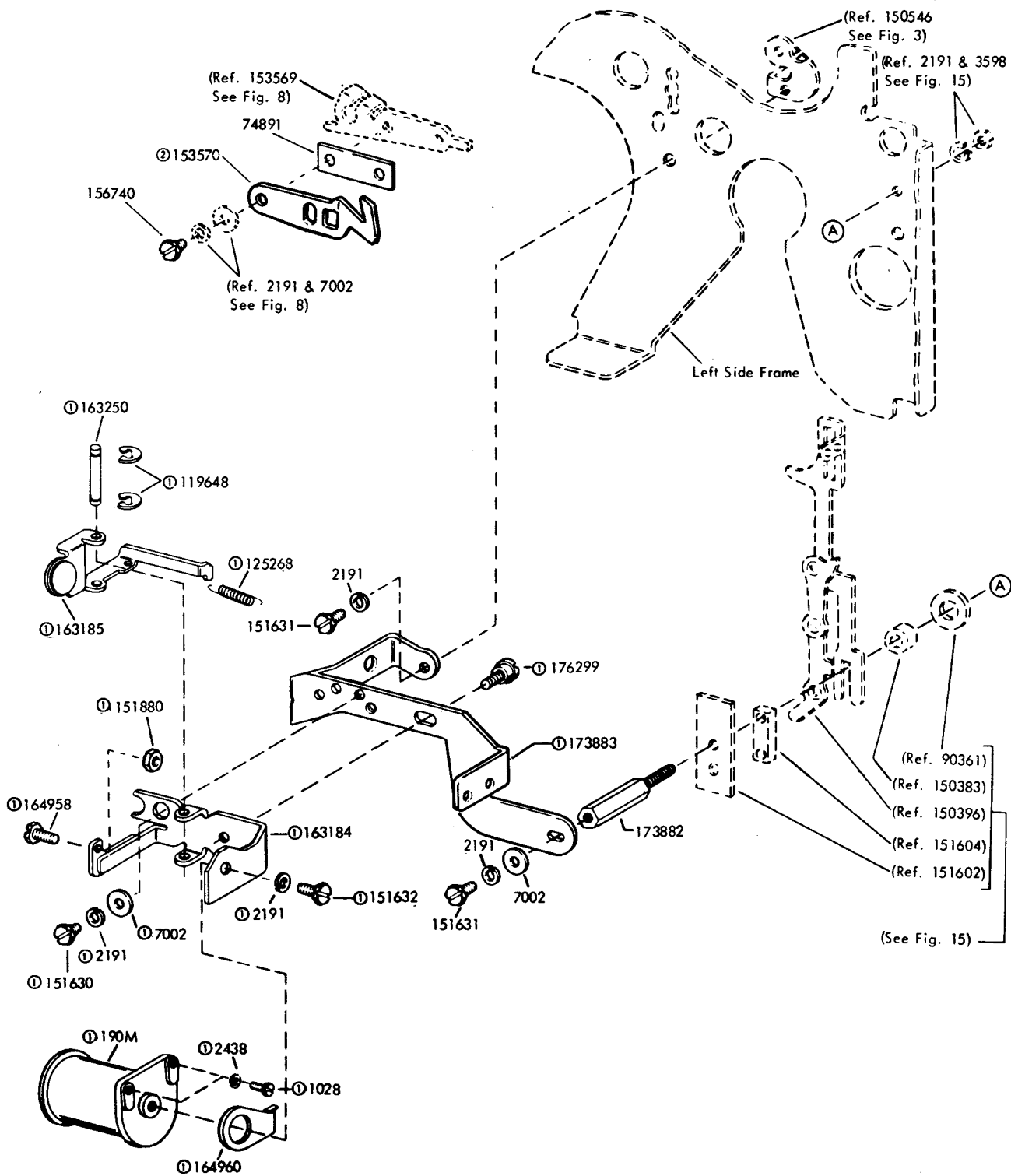


Specification 503525

FIGURE 61. 305539 MODIFICATION KIT TO PROVIDE A YIELD MECHANISM FOR THE LINE FEED STRIPPER SLIDE (Function Box Slots 39 & 40)







① 163254 Magnet Assembly  
 ② Not part of the 163183  
 Specification 59465

FIGURE 63. 163183 MODIFICATION KIT TO PROVIDE D. C. MAGNET OPERATED PRINT SUPPRESSION

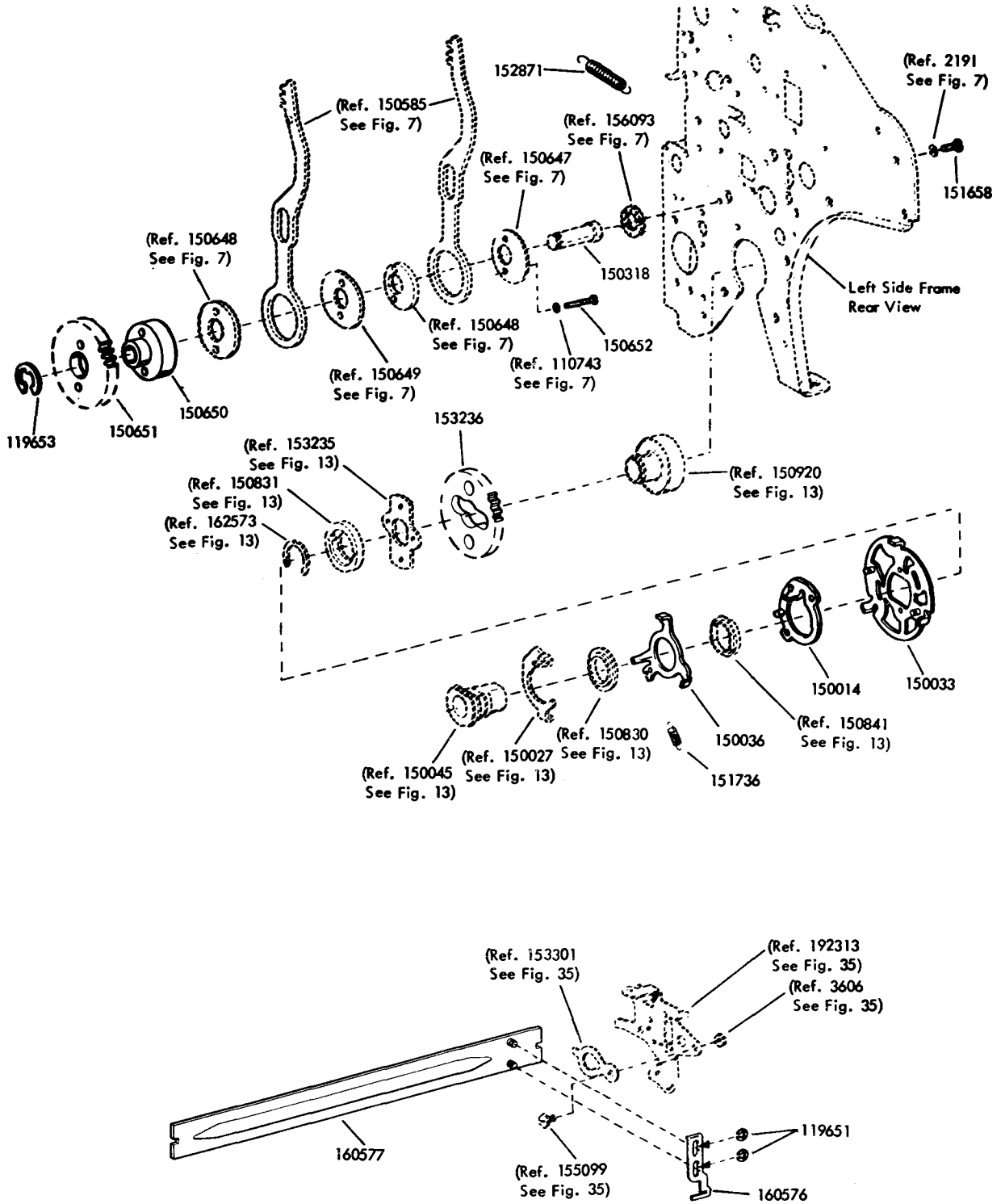


FIGURE 64. 325967 MODIFICATION KIT TO CONVERT SPROCKET FEED PRINTER LINE FEED FROM 6.1 TO 3.1 RATIO (6 Stop To 3 Stop Clutch)

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
190M	Coil, Magnet 63	41732	Plate, Clamp 13, 30, 35, 36, 40, 54	82547	Insulator, .094" Thk 13, 25, 30, 35, 40, 54, 62
243M	Coil, Magnet 46, 47	41733	Insulator, .062" Thk 54	82548	Insulator, .062" Thk 13, 25, 30, 35, 36, 40, 57, 62
254M	Coil, Magnet 26	42661	Spring 32, 33, 46, 47	82725	Spring 27
271M	Coil, Magnet 26	42823	Washer, Flat 14, 15	82861	Spring 31
1028	Screw, 4-40 x 1/4 Fil 63	42827	Screw, 3-48 x 1/4 Fil 26, 36	83877	Spring 56
1156	Screw, 2-56 x 9/16 Fil 58	45024	Spring 46, 47	83913	Spring, Contact 36
1174	Screw, 4-40 Shoulder 27	45027	Spring 18, 19	83914	Spring, Contact 36
1214	Screw, 10-32 Set 18	45815	Washer, Lock 13, 30	83960	Washer, Flat 30
1293	Screw, 4-40 x 1/8 Fil 32	49420	Spring 34	84575	Spring 11
2034	Washer, Flat 24, 28	55063	Spring 8	84705	Spring, Contact 36
2191	Washer, Lock 3 to 37, 40, 44, 45, 46, 47, 49 to 60, 62, 63, 64	55669	Spring 46, 47	84758	Spring 35
2201	Nut, 5/16-32 Hex 53	70388	Spring 10	84892	Stiffener 13, 25, 35, 62
2438	Washer, Flat 26, 63	70466	Spring 21, 37	85407	Spring, Compression 7
2481	Washer, Flat 25, 62	70529	Stiffener 13, 30, 35	85816	Wick, Felt 20
2539	Nut, 3/8-32 Hex 7, 10	70886	Washer, Flat 11	86304	Spring 11
2669	Washer, Lock 5, 7, 11, 12, 16, 17, 18, 19, 20, 22, 23, 24, 35, 36, 49	71047	Washer, Flat 12, 49	86746	Screw, 6-40 Shoulder 5
3438	Washer, Flat 19	71073	Washer, Flat 61	86835	Spring 3, 22
3598	Nut, 6-40 Hex 5 to 12, 14 to 18, 20, 22, 24, 25, 27, 28, 29, 31, 34, 35, 49, 50, 51, 52, 57, 62, 63	71681	Spool, Ribbon 33	87401	Spring 35
3599	Nut, 4-40 Hex 6, 10, 18, 21, 24, 25, 26, 32, 39, 46, 47, 48, 52, 59	72254	Washer, Flat 35, 58	89096	Washer, Felt 20
3606	Nut, 6-40 Hex 5, 9, 22, 27, 35, 37, 61, 64	72468	Spring 6	89897	Nut, 10-32 Hex 18
3624	Washer, Flat 30, 31, 56, 58	72522	Wick, Felt 39	90054	Spring 12, 49
3640	Washer, Lock 11, 20, 25, 28, 30, 31, 40, 46, 47, 56, 59	72579	Washer, Flat 53	90361	Washer, Felt 11, 16, 17, 32, 33, 46, 47, 63
3646	Washer, Lock 27, 40, 53	73035	Spring 51	90490	Shim, .005" Thk 11
3649	Washer, Flat 28	73175	Washer, Lock 7, 10	90504	Washer, Felt 20, 37, 54
3650	Washer, Flat 27	73520	Wick, Felt 18	90517	Spring 39
4586	Washer, Felt 11	74283	Washer, Spring 24, 25	90581	Collar 56
4703	Spring 35, 54	74536	Screw, 6-40 Set 11	90599	Shim, .008" Thk 34
5599	Nut, 8-32 Hex 53	74547	Collar 10	90679	Washer, Felt 11
5740	Screw, 2-56 x 1/4 Fil 37	74553	Wick, Felt 16	90752	Washer, Felt 19
5816	Washer, Insulating 40	74701	Spring 6, 10, 48	90790	Washer, Flat 25, 54
6800	Screw, 6-40 Shoulder 10	74707	Spring 11	90791	Washer, Lock 16
6807	Screw, 6-40 Set 56	74716	Bushing, Insulating 13, 54	90819	Washer, Felt 7, 10
7001	Washer, Flat 31	74717	Screw, 4-40 x 23/32 Fil 13	90951	Washer, Lock 14, 62
7002	Washer, Flat 5, 10 to 14, 16 to 21, 23 to 36, 40, 46, 47, 49, 50, 51, 52, 54, 56, 57, 60, 62, 63,	74722	Washer, Flat 8, 9	92260	Washer, Lock 53
7015	Plate, Nut 50	74727	Terminal, Contact 54	92682	Nut, 4-40 Spl 28
7036	Collar, Locking 11	74755	Washer, Felt 23	92736	Post, Spring 21
7603	Spring 10, 21, 36	74785	Roller 10	93117	Washer, Lock 30, 31, 46, 47, 56, 58, 61
7655	Spring 25, 62	74798	Screw, 6-40 x 31/64 Fil 7	93118	Washer, Lock 13, 52
7835	Ribbon w/Spool, Black 32	74808	Bushing 58	93191	Screw, 6-40 x 5/16 Flat 30, 31
7965	Spring 60	74882	Spring 16	93356	Washer, Felt 7, 10, 15, 16, 17, 18, 21, 34
8330	Washer, Flat 8, 10, 24, 28, 34, 36, 37, 46, 47, 50	74891	Shim, .004" Thk 63	93507	Screw, 4-40 x 3/4 Hex 37
8449	Spacer, .094" Thk 10, 32	76081	Washer, Flat 26	93729	Wick, Felt 28, 34
13681	Spacer, .187" Thk 31	76099	Washer, Flat 26	93758	Washer, Felt 10, 11, 28
21397	Washer, Spring 12, 49	76299	Spring 34	93879	Oiler, Felt 11
22015	Spring 32, 59	76461	Washer, Flat 20	93899	Spring 46, 47
27425	Screw, 2-56 x 5/32 Fil 16	76474	Nut, 10-32 Hex 11	93969	Screw, 4-40 x 3/16 Flat 55
31636	Spring 36	76800	Spring 8	94248	Clamp, Cable 18
33038	Spring 11	77039	Bushing, Insulating 40	94674	Washer, Cup 34
33828	Spring 16, 17	79012	Insulator 26	95030	Nut, 6-40 Shoulder 7
34432	Washer, Flat 7, 13, 30	79449	Shim, .008" Thk 19	95827	Bushing 19, 59
35826	Washer, Flat 12, 49	80310	Washer, Felt 23	96717	Screw, 4-40 Shoulder 24
36273	Washer, Flat 22, 53	80334	Terminal, Contact 13, 25, 30, 35, 62	97117	Ribbon w/Spool, Red-Black 47
36463	Spring 22	80481	Screw, 6-40 Spl 50	97481	Wick, Felt 7
41382	Spring 12, 24, 25, 49	80581	Spring 9, 11, 19, 53	98142	Washer, Flat 27
41675	Washer, Flat 35	80755	Bushing, Insulating 13, 30	98832	Screw, 4-40 x 11/16 Fil 35
		80833	Guard, Contact Spring 13, 30	98833	Screw, 4-40 x 31/32 Fil 36
		80848	Spring 9	101796	Washer, Felt 11, 16, 19, 34
		80854	Screw, 6-40 x 1-7/16 Fil 40	102672	Spring, Contact 13, 30
		81726	Terminal 36, 40	102673	Spring, Contact 13, 30
		81731	Spring 18, 51	102999	Screw, 2-56 x 5/32 Fil 56
		81773	Screw, 4-40 x 29/32 Fil 36	103078	Plate 25, 62
		81778	Screw, 4-40 x 3/16 Fil 26	103966	Spacer 30
		82442	Spring 11		
		82463	Spring 11, 32, 33, 46		

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
104807	Washer, Flat 12, 13, 40, 49, 57	125005	Screw, 2-56 x 3/16 Rd 20	150079	Stud 42
104824	Spring 26	125011	Washer, Flat 5, 6, 7, 8, 11, 12, 16, 17, 18, 21, 23, 24, 25, 30, 31, 34, 38, 40, 42, 46, 47, 48, 49, 50, 55, 59, 60	150089	Screw, 4-40 x 1/2 Fil 19, 26, 40, 46, 47
105028	Wick, Felt 22	125015	Washer, Flat 4, 6, 7, 9, 11, 12, 16, 26, 35, 46, 49, 50, 62	150091	Gear, 27T 15
105940	Stiffener 54	125119	Screw, 4-40 Shoulder 59	150096	Roller Assembly, Pressure 6
106281	Screw, 4-40 Shoulder 40	125124	Screw, 4-40 Shoulder 52	150175	Stud 22
107116	Washer, Lock 4	125238	Spring 18	150184	Link 18
107207	Spring, Contact 13, 35	125241	Spring 26	150193	Hub 18
107236	Bushing 35	125268	Spring 63	150194	Plate 18
108199	Wick, Felt 9, 10, 34	125390	Washer, Flat 40	150196	Bail 18, 60
110434	Screw, 4-40 x 3/16 Fil 4, 5, 8, 15, 19, 20, 24, 25, 36, 42, 50, 55, 59	125790	Bushing 36	150197	Stud 20, 23
110435	Nut, 4-40 Hex 28, 30, 31	125802	Washer, Flat 18, 58	150202	Gear, 18T 19
110436	Spring 52	126250	Screw, 8-32 x 1/4 Fil 40	150203	Retainer 19
110437	Spring 10	126815	Screw, 2-56 x 15/64 Hex 46, 47, 61	150206	Spacer, .412" Thk 23
110743	Washer, Lock 4 to 9, 12 to 21, 23 to 28, 30 to 40, 42, 46 to 52, 54, 55, 57 to 60, 64	128357	Ring, Retaining 8, 56	150214	Stud, Bearing 11
110872	Spring, Compression 18	129505	Screw, 8-32 x 3/16 Rd 27	150215	Block, Guide 22
110879	Spring 35	130663	Washer, Lock 56	150218	Bushing 21
111017	Screw, 6-40 x 5/16 Fil 52	130683	Washer, Lock 21	150219	Screw, 4-40 x 1/2 Sq 12
111342	Spring 35	130696	Washer, Felt 36	150224	Pulley 20
111355	Spring, Compression 11	131316	Wick, Felt 22	150225	Rope, Draw Wire 23
112509	Insulator, .031" Thk 54	135716	Spring 10, 49	150228	Spacer, .035" Thk 18
112626	Nut, 10-32 Hex 5, 12, 16, 17, 18, 20, 23, 24, 36, 49	136470	Bushing, Insulating 36	150229	Retainer 18
112627	Nut, 2-56 Hex 20, 46, 47, 52	138034	Plate, Clamp 13	150230	Plate 34
112629	Spring 35	144540	Screw, 4-40 x 1-1/8 Fil 35	150232	Retainer, Oil 22
112633	Spring w/Wick 34	144871	Shaft, Solenoid Plunger 27	150233	Roller 18
112634	Spring 32, 33	144932	Solenoid 27	150234	Roller 18
112935	Screw, 6-40 Set 27	145301	Latch 39	150235	Slide, Transfer 18
113990	Washer, Flat 5	145321	Tie, Cable 31	150237	Lever, Escapement 20
114107	Spring 28	150000	Drum, Clutch 14, 15	150241	Spring 14, 15
115122	Washer, Felt 16, 17	150001	Drum, Clutch 14	150244	Link 15, 17
115529	Screw, 6-40 x 11/16 Fil 12, 45, 49	150010	Plate, Retaining 15	150245	Bracket 22
116951	Bushing, Insulating 35	150013	Disk, Adjusting 14, 15	150247	Link 22
119467	Insulator, .032" Thk 30, 31, 58	150014	Disk, Adjusting 15, 64	150251	Wheel, Ratchet 23
119648	Ring, Retaining 12, 16, 22, 24, 25, 27, 29, 37, 40, 46, 47, 49, 51, 63	150025	Clutch Assembly, Type Box 15	150255	Bushing 20
119649	Ring, Retaining 9, 11, 13, 19, 21, 28, 30, 31, 32, 33, 35, 37, 39, 46, 47, 49, 58	150026	Lever, Shoe Release 14, 15	150265	Shaft 6
119650	Ring, Retaining 5, 27	150027	Lever, Shoe Release 15, 64	150266	Lever, Guide 6
119651	Ring, Retaining 6, 11, 16, 19, 20, 21, 32, 33, 34, 35, 36, 37, 46, 47, 58, 64	150029	Wick, Felt 14, 15	150267	Clamp 6
119652	Ring, Retaining 7, 10, 11, 14, 16, 17, 18, 20, 21, 22, 24, 25, 28, 31, 32, 33, 34, 35, 46, 47, 54, 60	150030	Roller, Bearing 34	150269	Roller, Pressure 6
119653	Ring, Retaining 9, 11, 18, 19, 22, 32, 33, 35, 37, 46, 47, 64	150033	Disk, 3 Stop 15, 64	150270	Link 6
119654	Ring, Retaining 29	150035	Disk, 3 Stop 15	150271	Arm, Release 6
119935	Washer, Lock 53	150036	Carriage Assembly 64	150274	Bracket, Clamp 6
120824	Washer, Felt 14	150038	Latch 34	150276	Lever 6
121243	Clamp, 3/16 ID Cable 4, 7, 26	150039	Slide, Printing Arm 34	150289	Stud 36
121244	Clamp, 1/4 ID Cable 26, 28	150040	Screw, 6-40 x 5/8 Fil 8, 10, 15, 47	150293	Plate, Retaining 36
121245	Clamp, 5/16 ID Cable 7, 46	150043	Shoe, Secondary Clutch 14, 15	150301	Plate, Retaining 36
121248	Clamp, 1/2 ID Cable 26	150044	Shoe, Primary Clutch 14, 15	150302	Shim, .006" Thk 36
121249	Clamp, 5/8 ID Cable 26	150045	Bearing, Clutch Sleeve 15, 64	150304	Bracket, Guide 36, 59
121473	Post 54	150046	Bearing, Type Box Clutch 15	150310	Lever, Ribbon 32
121538	Terminal w/Insulator 26	150047	Bearing, Code Bar Clutch 14	150311	Lever, Ribbon 33
122292	Bushing, Insulating 25, 62	150048	Spring 24	150318	Stud 9, 51
124244	Washer, Felt 28, 52	150050	Spacer, Clutch 14	150335	Gear, 12T 32
124681	Screw, 6-40 Set 6, 48	150051	Cam, Eccentric 14	150336	Bushing 18, 32, 33, 46, 47
124999	Switch, Sensitive 30, 31, 58	150053	Bracket 34	150341	Post, Spring 5
		150054	Bail w/Roller 34	150342	Screw, 6-40 Shoulder 8, 9
		150055	Stud 28	150343	Lever 32, 47
		150056	Arm 14, 28	150344	Lever 33, 46
		150059	Bail 34	150348	Shaft 10
		150061	Head, Print Hammer 34	150350	Shaft 10
		150064	Stud 34	150351	Stud, Eccentric 5
		150065	Bracket, Stop 34	150352	Bushing 10
		150068	Arm 34	150353	Stud 5
		150078	Nut, 4-40 Shoulder Hex 42	150355	Lever, Latch 10
				150356	Lever, Trip 10
				150358	Lever, Trip 10
				150361	Spacer, .277" Thk 10
				150363	Plate 17
				150364	Stud, Eccentric 15, 17

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
150365	Shaft, Rocker 16, 17, 22	150652	Screw, 4-40 x 37/64 Fil 9, 64	150891	Block 16
150366	Bracket 15, 17	150654	Guide 5, 12	150895	Arm, Trip 10
150367	Bracket 16	150656	Handwheel 9, 51	150900	Bail, Detent 5, 53
150369	Link, Left 17	150658	Gear, 21T 9, 51	150903	Block, Left Paper Spindle 7, 48
150370	Link, Right 16	150666	Gear, 28T 9	150904	Block, Right Paper Spindle 7
150377	Arm 11	150668	Collar, Spacing 19	150907	Spindle, Paper 7
150380	Stud 16	150669	Shim, .002" Thk 19	150909	Screw, 6-40 Shoulder 20
150382	Block, Guide 16, 17	150670	Shim, .004" Thk 19	150910	Latch, Right 7
150383	Spacer, .149" Thk 17, 63	150672	Bearing 19	150911	Bushing, Shoulder 9, 51
150384	Spacer, .245" Thk 16	150673	Shaft 19	150912	Screw, 6-40 Shoulder 9, 51
150386	Link, Left Ribbon Drive 17, 47	150677	Pawl, Feed 19	150923	Washer, Felt 10, 34, 36
150387	Link, Right Ribbon Drive 16, 46	150678	Pawl, Feed 19	150926	Washer, Felt 11, 20
150392	Bail 11	150685	Plate 6	150927	Oiler, Felt 21
150395	Screw, 6-40 Shoulder 16, 17	150689	Block, Guide 37	150929	Oiler, Felt 21
150396	Lever, Left 17, 63	150705	Bushing 20	150930	Washer, Felt 11
150397	Lever, Right 16	150709	Spacer 20	150932	Bushing, Shoulder 32, 33, 46
150398	Stud, Pivot 7	150710	Screw, 6-40 x 1-1/4 Fil 20	150935	Latch 7
150399	Shaft 11	150711	Washer, Flat 35	150937	Lever 32
150401	Clamp 17	150712	Rope, Draw Wire 23	150961	Bushing, Eccentric 5, 53
150410	Stud 17	150714	Bearing, Sleeve 9	150969	Spring, Torsion 5
150411	Washer, Flat 16, 30, 31	150715	Gear, 32T 9	150970	Bearing, Ball 15, 51, 64
150412	Arm, Left Follower 17	150718	Platen 9	150975	Cup, Dashpat 18
150413	Arm, Right Follower 16	150719	Retainer 5	150978	Screw, 6-40 x 1-1/8 Fil 26, 28
150414	Bushing 7	150720	Retainer 4	150987	Spacer, .090" Thk 18
150419	Shaft 7	150721	Arm 20	150990	Washer, Felt 7, 19, 28
150420	Lever, Right 16	150722	Arm 20	150992	Stud 5, 6
150423	Stud, Pivot 7	150728	Rail 20	150998	Spacer, .020" Thk 9
150425	Lever, Lock 16, 17	150731	Slide 18	151036	Screw, 4-40 Shoulder 52
150428	Lever, Left 17	150732	Slide, Bottom 18	151073	Screw, 4-40 x 5/32 Fil 4, 5, 26, 60
150429	Stud, Eccentric 16, 17	150733	Slide, Top 18	151152	Screw, 4-40 x 3/16 Hex 21, 28, 34, 36, 46, 47, 56, 57, 58, 59
150431	Lever, Trip 10, 49	150738	Guide 18	151222	Washer, Felt 14, 28, 37
150432	Washer, Flat 27, 47	150746	Bushing 19	151336	Oiler 24
150436	Bushing 6, 8, 18, 32, 56	150748	Stud 22	151346	Screw, 6-40 x 3/8 Fil 7, 8, 9, 12, 15, 18, 19, 23, 33, 35, 44, 46, 49, 50, 54, 55, 60
150440	Hub 15	150750	Plate 20	151354	Screw, 2-56 x 15/32 Fil 52
150441	Gear, 21T 15	150751	Block, Guide 20	151442	Screw, 6-40 x 1/2 Hex 17, 25, 28, 31, 62
150444	Lever, Trip Shaft 10	150752	Stud 21	151443	Eccentric 34
150447	Arm 28	150753	Roller 21	151572	Washer, Lock 19
150450	Arm 28	150754	Roller 22	151602	Plate 16, 17, 63
150471	Stud 28	150755	Stud 22	151603	Spacer 16, 26
150479	Stud 11, 24	150758	Pulley 22	151604	Block, Guide 16, 17, 63
150481	Shaft 28, 48	150770	Bellcrank 19	151606	Screw, 10-32 x 1/4 Hex 22
150482	Plate 28	150771	Bellcrank 19	151610	Washer, Flat 15, 30, 31, 34, 58
150507	Spring 28, 29	150780	Screw, 6-40 Spl 53	151611	Bushing 34
150535	Spring, Compression 36	150781	Stud 11	151612	Spacer 34
150536	Spring 18	150796	Disk 23	151618	Screw, 6-40 x 7/16 Fil 23, 36
150537	Ball, Bearing 36	150798	Ratchet 23	151619	Bushing 23
150538	Cylinder, Dashpot 18	150800	Stud 20	151625	Strip 21
150543	Screw, 3-48 x 13/32 Fil 37	150803	Spring, Flat 6	151626	Terminal 26, 52
150544	Handle 37	150804	Guide, Right Paper 6	151627	Rod 7, 30
150545	Bracket, Right 4	150805	Shim, .012" Thk 20	151629	Nut, 6-40 Lug 8, 10, 28, 36, 37, 50, 55
150546	Bracket, Left 5, 30 63	150806	Plate 20	151630	Screw, 6-40 x 1/4 Hex 8, 11, 14, 15, 16, 18, 20, 22, 24, 25, 27, 28, 33, 34, 35, 36, 40, 46, 47, 51, 59, 62, 63
150547	Shaft 37	150807	Oiler, Felt 20	151631	Screw, 6-40 x 5/16 Hex 5, 13, 23, 26, 29, 30, 46, 47, 57, 63
150549	Collar 15	150809	Gear, 32T 9	151632	Screw, 6-40 x 3/8 Hex 15, 16, 17, 20, 27, 28, 35, 63
150554	Plate 20, 23	150811	Stud 16	151637	Screw, 4-40 x 1/4 Fil 4, 5, 12, 17, 18, 23, 32, 33, 37, 46, 47, 49, 54
150557	Bracket 60	150815	Bushing 6, 48		
150561	Arm 60	150816	Lever 6		
150563	Spring 25, 28	150821	Spacer, .156" Thk 33		
150585	Bar, Line Feed 9, 64	150824	Track 16, 17		
150586	Lever 9	150826	Guide, Left Paper 6		
150598	Track, Printing 22	150827	Drum, Spring 23		
150642	Bellcrank 9	150830	Bushing, Shoulder 15, 64		
150646	Screw, 6-40 Shoulder 9	150831	Ring, Retaining 15, 64		
150647	Eccentric 9, 51, 64	150833	Platen Assembly 9		
150648	Eccentric 9, 51, 64	150838	Ring, Retaining 23		
150649	Washer, Spacing 9, 51, 64	150840	Bracket, Guide 6		
150650	Bushing 9, 64	150841	Bearing 15, 64		
150651	Gear, 28T 9, 64	150843	Plate, Hook 23		

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
151642	Screw, 6-40 x 3/4 Fil 14, 15	152340	Modification Kit 2, 31, 48	152606	Rail Assembly, Oscillating 20
151644	Spring 16, 17	152350	Modification Kit 2, 60	152614	Track Assembly 20
151657	Screw, 6-40 x 1/4 Fil 4, 5, 6, 7, 8, 11, 16, 17, 18, 20, 24, 25, 28, 32, 33, 36, 37, 47, 49, 51, 56, 60	152357	Stud 39	152629	Washer, Friction 32, 33, 46, 47
151658	Screw, 6-40 x 5/16 Fil 3, 4, 5, 7, 8, 9, 11, 16, 17, 19, 21, 23, 24, 25, 28, 31, 32, 35, 40, 46, 50, 50, 64	152400	Plate, Selector Mounting 16, 24, 26, 28	152634	Washer, Flat 18, 19, 59
151659	Screw, 6-40 x 1/2 Fil 5, 12, 32, 36, 49, 57	152406	Bracket, Spring 24	152637	Lever, #3 Transfer 28
151661	Screw, 6-40 x 1 Fil 19	152407	Lever, Spacing Lock 24	152641	Lever, Function 39
151668	Roller 28	152409	Lever, Selecting 24	152642	Lever, Function 39
151676	Shim, .010" Thk 30, 31	152411	Lever, Punch 24	152644	Bracket 32
151685	Screw, 4-40 x 5/16 Fil 7, 9, 10, 15, 16, 18, 23	152412	Link 24	152646	Lever, Left Reversing 32
151686	Screw, 4-40 x 3/8 Fil 6, 19, 26, 27, 48	152415	Stud, Adjusting 26	152647	Lever, Right Reversing 33, 46
151687	Screw, 4-40 x 7/16 Fil 40	152420	Lamination, Magnet 26	152648	Sud 33
151688	Screw, 4-40 x 5/8 Fil 15, 26, 30, 59	152421	Bracket, Shield Mounting 26	152651	Plate, Guide 37, 59
151689	Screw, 4-40 x 3/4 Fil 6, 14, 38, 54	152423	Bracket, Armature Stop Mounting 26	152652	Bar, Guide 37
151690	Screw, 10-32 x 5/16 Fil 15	152425	Post, Spring 26, 56	152653	Part, Function 39
151692	Screw, 6-40 x 3/16 Fil 4, 5, 6, 10, 11, 18, 19, 21, 33, 34, 37, 51, 60	152426	Nut, 6-40 Self-Locking 26	152659	Lever, Function 39
151693	Screw, 6-40 x 9/16 Fil 15, 32	152427	Latch w/Hub 24, 25	152660	Plate, Spring 39
151695	Screw, 6-40 x 5/8 Fil 34	152429	Rack, Sector 24	152704	Bar, Function 41
151700	Screw, 6-40 Shoulder 22	152438	Bail, Stop Arm 24, 25, 62	152708	Lever, Keyboard Lock 60
151701	Spring, Torsion 24	152441	Washer, Flat 24, 25	152723	Spring 6
151702	Nut, 4-40 Hex 37	152445	Spring, Compression 24	152725	Spring 6
151703	Pin 6	152456	Holder, Wick 16, 28	152726	Bushing 10
151709	Arm 34	152457	Wick, Felt 28	152818	Lever, Left Detent 32, 47
151713	Spring, Torsion 5	152458	Shield, Terminal 26	152819	Lever, Right Detent 33, 46
151714	Spring 24	152461	Bracket 3	152820	Lever, Left Feed 32, 47
151721	Screw, 6-40 x 3/4 Hex 7, 25, 28, 37, 62	152462	Latch, Right 3	152821	Lever, Right Feed 33
151722	Screw, 6-40 x 3/16 Hex 3, 10, 12, 20, 25, 26, 30, 35, 51, 54, 57, 62	152463	Latch, Left 3	152823	Bracket, Left 32, 40
151723	Screw, 10-32 x 3/8 Hex 19, 35	152464	Insulator, .062" Thk 3, 26	152824	Bracket, Right 33
151728	Spring 14, 15	152467	Connector, 20 Pt Plug 3	152826	Pin, Detent 32, 33, 46, 47
151731	Screw, 4-40 x 7/8 Fil 9, 51	152505	Stud 21	152827	Bracket, Left Spool 17, 32
151732	Screw, 4-40 x 11/32 Fil 15	152507	Roller, Detent 21	152828	Bracket, Right Spool 16, 33
151733	Screw, 4-40 x 9/16 Fil 13	152508	Bracket, Right 21	152831	Clip 4, 5
151734	Screw, 4-40 x 3/8 Hex 16	152509	Bracket, Left 21	152832	Shaft 6, 48
151736	Spring 15, 64	152510	Lever, Detent 21	152834	Spring, Torsion 32, 33, 46, 47
151737	Screw, 4-40 x 11/64 Hex 12, 14, 15, 49	152511	Guide 20, 21	152871	Spring 9, 64
151738	Screw, Identification 42	152514	Bail 11	152875	Spacer, .050" Thk 40
151739	Screw, Identification 37	152515	Lever, Space Trip 11	152887	Screw, 4-40 x 1/2 Hex 14, 15
151794	Washer, Spring 15	152516	Slide 11	152889	Plate, Retaining 37
151799	Modification Kit 7	152518	Bail 11	152890	Washer, Flat 18
151880	Nut, 4-40 Hex 12, 16, 18, 27, 40, 57, 63	152523	Spring, Washer 32, 33, 46, 47	152891	Spring 24
152089	Latch 39	152524	Bracket 32, 33, 46, 47	152893	Screw, 4-40 x 1/4 Hex 7, 11, 13, 17, 23, 24, 40, 46, 47
152121	Lever, Function 39	152525	Hub 32, 33, 46, 47	152927	Bushing 12, 45, 49
152127	Clip 37	152526	Plate, Right 33, 46	152938	Spacer, .125" Thk 12, 49, 57
152129	Spring 34	152527	Plate, Left 32, 47	152943	Screw, 10-32 Spl 12, 49
152140	Bail 11	152528	Ratchet, Left Ribbon 32, 47	153172	Spring 20
152147	Bearing, Ball 16	152529	Ratchet, Right Ribbon 33, 46	153173	Plate, Clamp 20
152254	Wick, Felt 16, 17	152536	Bail 22	153174	Link, Left 20, 21
152255	Bar w/Retainer 36	152537	Clamp 15, 51	153175	Link, Right 20, 21
152257	Spring 36	152539	Guide 6	153184	Post 26
152298	Lever, Function 39	152545	Lever 11	153185	Gear, 30T 12, 49
152299	Lever, Function 39	152547	Shaft 37	153189	Spring, Compression 12, 45, 49
152318	Switch, Magnetic 64	152548	Bar, Shift 36	153191	Pointer 12, 49
		152550	Clamp 17	153192	Spring, Torsion 12, 49
		152563	Bracket 11, 35	153196	Handwheel 12, 45, 49
		152571	Spacer, .250" Thk 32	153198	Gear, 48T 45
		152573	Retainer 14	153199	Gear, 51T 45
		152574	Plate 36	153200	Gear, 54T 45
		152575	Bracket 36	153201	Gear, 57T 45
		152576	Bracket 36, 59	153202	Gear, 60T 45
		152579	Track 20	153203	Gear, 66T 12, 45, 49
		152582	Shaft 32	153204	Gear, 72T 45
		152583	Bearing, Sleeve 28	153205	Gear, 78T 45
		152586	Bracket 19, 60	153206	Gear, 84T 45
		152589	Clamp 17	153207	Gear, 90T 45
		152592	Guide 20, 21	153229	Bushing, Shoulder 51
		152595	Slide 21	153230	Bar, Line Feed 51
				153231	Bar, Line Feed 51

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
153233	Guide 51	153570	Arm, Suppression 63	154362	Spring, Contact 13, 35, 54
153235	Plate 15, 64	153573	Bail 7	154380	Bracket w/Post 36, 59
153236	Gear, 42T 15, 64	153575	Wick, Felt 11	154389	Cam, Eccentric 19
153237	Arm 51	153576	Cam, Function 14	154516	Ratchet 23
153239	Roller 51	153577	Washer, Felt 7	154519	Lever, Latch 8
153240	Retainer, Bearing 51	153581	Handle 37	154613	Latch 39
153241	Link 51	153582	Screw, 6-40 Shoulder 11	154614	Cam, Spacing 15
153242	Bracket 51	153583	Lever, Trip 10	154623	Ring, Retaining 23
153254	Bracket 60	153584	Lever, Latch 10	154624	Ring w/Roller 23
153255	Bail 11	153586	Guide 5	154626	Ring 23
153256	Bracket 18, 60	153587	Guide 4	154627	Drum, Spacing 23
153257	Bail 60	153598	Pawl, Function 39	154638	Spring 34
153258	Bushing 60	153600	Bracket, Spring 34, 36	154645	Spacer 7
153259	Arm 60	153601	Bushing, Shoulder 59	154646	Lever, Function 39
153260	Plate 60	153604	Pawl, Function 39	154647	Lever, Function 39
153261	Bushing, Threaded 60	153610	Spindle 48	154649	Arm 11, 60
153262	Arm 60	153611	Disk, Paper Spindle 48	154650	Clip 36
153263	Arm, Stop 60	153615	Lever 48	154666	Shaft 37
153267	Washer, Felt 25, 51, 62	153631	Network, Spark Suppression 27, 40	154667	Shaft 37
153287	Spring 51			154668	Shaft 37
153288	Spring 60	153634	Collar 6, 48	154669	Shaft 37
153291	Arm 14, 37	153670	Lever, Function 39	154670	Screw, 6-40 Spl 23
153292	Plate 14	153676	Bail, Detent 5	154671	Bracket 23
153293	Spacer, Clutch 14	153678	Bracket w/Shaft 8, 55, 56	154688	Spring 7
153294	Cam 37, 54	153682	Bracket, Right 8	154691	Clip 37
153295	Shaft 37	153683	Bracket, Left 8, 44, 55	154692	Clip 37
153296	Eccentric 14	153685	Arm w/Hub 8	154694	Disk, Clutch Cam 14, 15, 62
153298	Bracket, Right 5, 37	153686	Bearing, Right 8, 55	154698	Wick, Felt 35
153299	Bracket, Left 37	153687	Bearing, Left 8, 55	154760	Modification Kit 45
153300	Arm 14	153689	Gear, 33T 8, 55	154761	Modification Kit 45
153301	Arm 37, 54, 61, 64	153690	Gear, 28T 8	154762	Modification Kit 45
153302	Blade, Stripper 37	153692	Gear, 33T 8, 55	154763	Modification Kit 45
153303	Slide, Stripper 37	153695	Pin 8	154764	Modification Kit 45
153304	Bushing, Shoulder 31	153696	Spring 8	154765	Modification Kit 45
153305	Spring, Torsion 11	153697	Bracket 8	154766	Modification Kit 45
153310	Bail 11	153698	Cam, Feed 8, 55	154767	Modification Kit 45
153311	Arm 11	153699	Cam, Feed 8, 55	154768	Modification Kit 45
153312	Lever 31	153791	Shaft 8	154769	Modification Kit 45
153314	Bracket 11, 60	153794	Plate, Adjusting 8, 44, 55, 58	154771	Modification Kit 2, 49
153318	Shaft 37	153799	Screw, 4-40 x 21/64 Hex 8	154792	Modification Kit 19, 23
153321	Bracket, Tie 36	153806	Spring 10	154798	Modification Kit 2, 50
153322	Guide 37, 59	153810	Guide, Ribbon 16	154872	Bracket 4
153323	Ring, Spacer 14	153815	Clutch Assembly, Function 14	155044	Spacer 14
153335	Plate 21	153817	Screw, 4-40 x 3/8 Hex 18, 20	155046	Screw, 4-40 x 15/32 Hex 14
153337	Bushing 21	153819	Washer, Lock 26, 36	155047	Disk 14
153340	Spring, Left Torsion 21	153820	Frame, Printing Carriage 34	155060	Slide, Stripper 37
153341	Spring, Right Torsion 21	153823	Collar 14	155061	Blade, Stripper 37
153360	Stud 35	153824	Clamp 14	155071	Shaft 37
153361	Post 35	153830	Guide, Rear 50	155072	Shaft 37
153365	Arm, Cam 35	153833	Bracket, Guide 50	155073	Shaft 37
153367	Arm 10, 35	153838	Shaft 37	155074	Shaft 37
153368	Bail, Follower 10	153839	Screw, 6-40 x 5/8 Hex 7, 8, 16, 37, 50	155075	Shaft 37
153375	Arm, Slide 35			155076	Shaft 37
153382	Bail, Transfer 11	153841	Screw, 6-40 x 9/16 Hex 22	155077	Shaft 37
153383	Arm, Bail Extension 11	153926	Modification Kit 50	155096	Plate, Range Finder Mounting 24, 25
153440	Bar, Function 41	154051	Screw, 6-40 Shoulder 12, 49		
153442	Screw, 10-32 x 1/2 Hex 7, 13, 30	154127	Nut, 6-40 Hex 53	155099	Screw, 6-40 Shoulder 37, 61, 64
153489	Detent 24	154290	Ring, "O" 8, 44, 55		
153530	Plate 16	154310	Spring 23	155432	thru
153531	Plate, Adjusting 16	154320	Finger, Left Paper 8	155467	Pallet, Type 43
153532	Screw, 4-40 Adjusting 16	154323	Cam, Eccentric 19	155469	Pallet, Type 43
153537	Screw, 6-40 x 9/32 Hex 52	154332	Shaft 32, 33	155470	Pallet, Type 43
153538	Screw, 6-40 x 7/16 Hex 5, 25, 31, 46, 62	154333	Roller 32, 33	155473	Pallet, Type 43
		154349	Spring 24	155479	Pallet, Type 43
153550	Link 7	154354	Slide 16, 20	155480	Pallet, Type 43
153553	Roller 7	154356	Bail 16	155483	Pallet, Type 43
153558	Link 7	154358	Hub, Platen 8, 44, 55		
153569	Arm, Trip 10, 63				



## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
155565	Arm, Right 8, 50	157514	Modification Kit 19, 59	159184	Wick, Lubricating 24
155566	Arm, Left 8, 50	157600	thru	159185	Retainer, Wick 24
155587	Link w/Stud 28	157635	Pallet, Type 42	159334	Washer, Insulating 11
155589	Plate w/Stud 28	157636	thru	159341	Bearing, Ball 14, 17
155618	thru	157649	Pallet, Type 42, 43	159752	thru
155658	Pallet, Type 43	157658	Pallet, Type 42, 43	159786	Pallet, Type 43
155667	thru	157659	Pallet, Type 42, 43	159788	Pallet, Type 43
155673	Pallet, Type 43	157660	Pallet, Type 42, 43	160180	Armature w/Extension 26
155713	Clip 39	157662	Pallet, Type 42, 43	160182	Bracket w/Button 26
155714	Bracket 35	157663	Pallet, Type 42	160184	Plate, Stop 26
155715	Stud 35	157664	Pallet, Type 42, 43	160185	Post 26
155736	Lever, Function 39	157665	Pallet, Type 42	160186	Bushing, Shoulder 26
155737	Lever, Function 39	157666	Pallet, Type 42, 43	160187	Shield, Oil 26
155738	Bail, Blocking 39	157671	Pallet, Type 42, 43	160486	Bail 12, 49
155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 27, 31, 52, 56, 58	157678	Pallet, Type 42, 43	160489	Plate, Form Stop 45
155751	Sleeve, 1/8 ID x 1" Lg Insulating 26, 30, 31, 47	157717	Pallet, Type 43	160490	Pawl 12, 49
155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 31	157720	Pallet, Type 43	160491	Plate w/Stud 12, 49
155796	Shaft 28	157721	Pallet, Type 42	160493	Plate, Adjusting 12, 49
155864	Shaft, Cam 7	157722	Pallet, Type 42, 43	160495	Plate w/Stud 12, 49
155865	Stud 7	157729	thru	160498	Plate, Mounting 49
155871	Pallet, Type 42, 43	157763	Pallet, Type 43	160499	Lever, Blocking 49
155873	Pallet, Type 42	157765	Pallet, Type 42, 43	160500	Lever, Blocking 12, 49, 57
155896	Finger, Left Paper 8, 50	157766	thru	160502	Slide, Form-Out 49
155897	Finger, Right Paper 8, 50	157779	Pallet, Type 43	160503	Slide, Tab 11, 49
155954	Switch, Sensitive 52	157790	Pallet, Type 42, 43	160505	Disk, Retaining 45
156093	Washer, Felt 9, 64	157791	Pallet, Type 42, 43	160506	Disk, Retaining 45
156450	Screw, 2-56 x 1/2 Fil 13, 30, 31	157804	Pallet, Type 42, 43	160507	Disk, Retaining 45
156501	Screw, 6-40 x 7/32 Fil 5	157816	Pallet, Type 43	160508	Disk, Retaining 45
156521	Screw, 6-40 Eccentric Shoulder 27	157820	Pallet, Type 43	160509	Disk, Retaining 45
156536	Screw, 4-40 x 1/8 Fil 24	157887	Arm, No Contact 38	160510	Disk, Retaining 12, 45, 49
156558	Washer, Felt 46, 47	157899	Spring, No Contact 38	160511	Disk, Retaining 45
156572	Washer, Felt 34	157972	Bellcrank 19, 59	160512	Disk, Retaining 45
156574	Post, Spring 37	157973	Extension, Transfer 19, 59	160514	Disk, Retaining 45
156632	Screw, 6-40 x 13/32 Hex 23	157979	Link, Toggle 32	160523	Plate, Mounting 30
156740	Screw, 6-40 x 7/32 Hex 5, 8, 25, 27, 29, 36, 44, 58, 63	157991	Stud 7, 11	160527	Spring 45
156880	Jumper, 2-3/8" Black 26	158186	Screw, 4-40 x 7/32 Fil 30, 31	160528	Spring 45
156881	Jumper, 1-1/2" Black 26	158189	Washer, Felt 21	160529	Spring 45
156971	Screw, 2-56 x 3/4 Fil 31, 56	158317	Insulator, Switch 52	160530	Spring 45
157194	Retainer, Spring 26	158318	Cable 52	160531	Spring 45
157203	Stud, Shoulder 39	158334	Spring, Tension 23	160532	Spring 12, 45
157205	Lever, Function 39	158335	Stud 18, 35	160533	Spring 45
157206	Lever, Function 39	158337	Plate w/Pin 18	160534	Spring 45
157207	Lever, Function 39	158339	Arm w/Pin 35	160535	Spring 45
157237	Shield, Terminal 26	158340	Bracket, Stop 23	160536	Spring 45
157238	Spring 42	158342	Plate, Stop 12, 23, 45	160568	Contact Assembly 30
157240	Spring 39	158343	Arm 23	160569	Bracket 30
157241	Bracket, Roller 7	158344	Bracket, Spring 23	160572	Slide, Stripper 37
157245	Post 59	158346	Nut, 6-40 Shoulder 35	160573	Blade, Stripper 37
157261	Shaft, Stop Arm 24	158347	Lever w/Hub 35	160574	Arm w/Stud 12, 49
157274	Clip 37	158348	Bracket 35	160576	Slide, Stripper 37, 64
157275	Clip, Spring 37	158349	Bracket 19	160577	Blade, Stripper 37, 64
157286	Clamp, Platen 8	158351	Arm, Slide 35	160578	Sleeve, Pinion 12, 45, 49
157289	Bar, Cross 6, 50	158352	Pawl w/Stud 35	160583	Spring, Contact 40
157290	Bail, Pressure 6	158353	Bail, Trip 10	160626	Insulator, .031" Thk 13
157291	Guide, Rear Paper 6	158354	Bail, Stop 10	160627	Bushing, Insulating 13
157505	Clutch Assembly, Spacing 15	158355	Arm, Extension 10	160630	Spring, Contact 13
157506	Clutch Assembly, Line Feed 15	158357	Wheel, Horizontal Tab 23	160631	Spring, Contact 13
157510	Modification Kit 2, 60	158365	Blade, Reset 7	160779	Pallet, Type 43
157511	Modification Kit 2, 51	158485	Bracket, Left 50	160843	Spring 10
		158486	Bracket, Right 50	160937	Bail 5
		158487	Shaft 50	160939	Post, Spring 5
		158816	Spring, Contact 40	160940	Post 5
		159181	Lubricator 24	161250	Gear, 88T 45
				161346	Washer, Felt 32, 33, 46, 47
				161347	Washer, Felt 7, 19, 21, 22
				161366	Pallet, Type 43

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
161369	Pallet, Type 43	170057	Bearing 19	174442	Contact Assembly 25, 62
161649	Lever, Function 39	170058	Nut, 10-32 Shoulder 19	174444	Spring, Contact 25, 62
162059	Lever, Function 39	170059	Pawl, Drive 19	174445	Bracket, Contact Mounting 25, 62
162484	Lever, Function 39	170060	Plate, Guide 19	174446	Spring, Contact 25, 62
162573	Retainer 15, 64	170062	Bail 18	174447	Post 25, 62
162728	Arm 11	170063	Lever 19	174448	Guard 25, 62
162729	Bar, Guide 11, 35, 49, 60	170064	Link, Drive 18, 19	174449	Bracket 25, 62
163146	Modification Kit 54	170071	Clutch Assembly, Code Bar 14	174450	Cam 14
163147	Contact Assembly 54	170074	Arm 11	174452	Spacer, .085" Thk 25, 62
163148	Shaft 54	170075	Roller 11	174482	Lever 39
163150	Collar 54	170076	Pawl 11	174483	Lever 39
163152	Cam w/Stud 54	170079	Arm w/Hub 22	174484	Lever 39
163153	Cam, Trip 54	170080	Stud 19, 23	174570	Switch 56
163157	Cam, Drive 54	170111	Shaft 14, 15	176221	Platen, 8-1/8 Rubber 44
163158	Bracket w/Hub 54	170112	Guide 28	176222	Platen, 7-5/8 Rubber 44
163159	Lever 54	170113	Arm 28	176223	Platen, 7-1/8 Rubber 44
163181	Wheel, Horizontal Tab 23	170115	Lever, #7 Transfer 28	176224	Platen, 6-5/8 Rubber 44
163183	Modification Kit 2, 63	170117	Bracket 28	176225	Platen, 6-1/8 Rubber 44
163184	Bracket, Magnet 63	170118	Bracket 16, 28	176226	Platen, 5-5/8 Rubber 44
163185	Armature 63	170119	Lever 28	176227	Platen, 5-1/2 Rubber 44
163197	Pallet, Type 42, 43	170120	Lever 28	176228	Platen, 5-3/8 Rubber 44
163198	Pallet, Type 42, 43	170121	Shaft 28	176229	Platen, 5-1/8 Rubber 44
163250	Pin 63	170122	Lever 28	176230	Platen, 4-7/8 Rubber 44
163254	Magnet Assembly 63	170123	Bracket, Retaining 28	176231	Platen, 4-5/8 Rubber 44
163271	Lever, Function 39	170124	Lubricator Assembly 24	176232	Platen, 4-1/8 Rubber 44
163308	Pallet, Type 43	170125	Lever, Shoe Release 14	176233	Platen, 3-5/8 Rubber 44
163309	Pallet, Type 43	170198	Arm, Stop 24, 25	176234	Platen, 3-7/16 Rubber 44
163311	Pallet, Type 43	170199	Bracket, Anchor 13	176235	Platen, 3-3/8 Rubber 44
163313	Pallet, Type 43	170230	Knob 24	176236	Platen, 3-1/8 Rubber 44
163314	Pallet, Type 43	170231	Guide, Upper 24	176237	Platen, 2-3/4 Rubber 44
163535	Modification Kit 30	170232	Guide, Lower 24	176238	Platen 55
163590	Gear, 60T 15	170233	Stud 24, 25	176246	Bail, Blocking 39
163943	Lever w/Pin, Function 39	170234	Bracket, Guide 24	176247	Bail, Blocking 39
163944	Lever, Function 39	170235	Bracket, Spring 24	176285	Bail, Pressure 50
163948	Gear, 28T 53	170236	Lever 24	176299	Screw, 6-40 Shoulder 63
163949	Bushing 53	170237	Lever, Start 24	176355	Arm, Cam Follower 10
163957	Lever 53	170238	Bail, Reset 24	176356	Screw, 6-40 Pilot 11
163958	Washer, Flat 53	170282	Nut, 6-40 Hex 56	176477	Plate 50
163959	Spring, Torsion 53	172500	thru	176598	Bellcrank 51
163960	Bushing 53	172590	Switch Assembly 38	176609	Spring, Contact 13
164300	Spacer, .100" Thk 25, 62	172591	Spring, Contact Arm 38	176642	Clip, Spring 37
164311	Lever, Function 39	172593	Plate, Contact 38	176909	Frame, Left Side 3
164313	Bracket 34	172594	Plate, Contact 38	176910	Frame, Right Side 3
164316	Plate, Clamp 20	172595	Plate, Contact 38	178607	Stud, Cam Follower 11
164386	Bracket, Magnet Mounting 25, 26, 62	172596	Plate, Contact 38	178871	Sleeve, 1/2 ID x 1-1/8" Lg
164478	Contact Assembly 35	172597	Block, Contact 38		Insulating 27
164740	Rack, Range Finder 25, 62	172599	Block, Contact 38	179081	Pallet, Type 42
164743	Shaft 25, 62	172600	thru	179082	Pallet, Type 42
164958	Screw, 4-40 x 1/2 Hex 63	172608	Switch Assembly 38	179088	Pallet, Type 42, 43
164960	Insulator, .015" Thk 63	172618	Plate, Contact 38	179089	Pallet, Type 43
165027	Network, Spark Suppression 46, 47	172619	Plate, Contact 38	179090	Pallet, Type 43
165217	Jumper, 1-1/2" Green 56	172632	Screw, 4-40 x 3/16 Hex 14, 62	179091	Pallet, Type 43
165914	Stud 39	173141	Lever, Function 39	179194	Bracket 11, 49
170000	Frame, Right Side 4	173259	Link 34	179198	Lever 51
170001	Housing, Bearing 16	173260	Carriage Assembly 2, 34	179199	Lever 53
170004	Bracket w/Bushing 7, 10, 11, 24	173284	Lever, Lock 22	179216	Arm, Right Slide 21
170023	Bearing 28	173715	Terminal, Plug Type 26, 27, 31, 52, 56, 58	179217	Arm, Left Slide 21
170024	Bracket 28	173882	Stud 63	179224	Slide Assembly 21
170025	Bracket w/Stud 28	173883	Bracket, Mounting 63	179225	Bail w/Studs 21, 22
170026	Bellcrank w/Bushing 28	173902	Spring, Compression 36	179226	Screw, 4-40 Shoulder 21
170027	Bellcrank 28	173940	Terminal, Plug Type 47	179396	Plate, Front Type Box 42
170028	Link 28	173941	Terminal, Receptacle Type 47	179397	Plate, Rear Type Box 42
170039	Bellcrank w/Posts 18, 19	174439	Modification Kit 2, 62	179451	Plate, Right 21
170042	Bail w/Bushing 11	174441	Lever w/Bushing 25, 62	179452	Plate, Left 21
170054	Arm w/Post 18, 21			179675	Bracket 17, 47
170056	Plate w/Stud 18, 19, 20, 21, 22, 23, 35, 59, 60			179676	Lever, Left Guide 47
				179677	Shaft, Ribbon Spool 46, 47

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
179678	Lever 46, 47	192493	Spring 24	194325	Bracket w/Post 52
179680	Bail, Left Lifter 47	192495	Solenoid Assembly 2, 27	194326	Bracket, Switch 52
179681	Post 46, 47	192496	Cable w/Terminals 27	194327	Lever 52
179682	Bail, Left Roller 47	192513	Bar, #1, #2 & #7 Code 36, 59	194335	Pallet, Type 43
179684	Lever 46, 47	192514	Bar, #3 Code 36, 59	194336	Pallet, Type 43
179686	Bracket, Right 16, 46	192515	Bar, #5, #4 & Common Code 36, 59	194371	Guide 52
179687	Lever, Right Guide 46			194414	Lever 39
179689	Bracket, Left 47, 57	192516	Bar, #6 Code 36, 59	194868	Geor, 48T 15
179690	Plate 47	192518	Bar, Suppression Code 36, 59	194870	Géar, 16T 9
179691	Bracket, Left 47	192540	Lever w/Hub 36	194871	Disk, 6 Stop 15
179692	Spacer 46, 47	192541	Lever w/Hub 36	194872	Disk, 6 Stop 15
179693	Bail, Right Lifter 46	192542	Lever w/Hub 36	194873	Disk, 6 Stop Adjusting 15
179694	Bail, Right Raller 46	192544	Plate w/Bearing 36	194884	Pallet, Type 43
179695	Bracket, Left Magnet 47	192545	Bracket 36	194885	Pallet, Type 43
179696	Bracket, Left Hinge 47	192546	Post 36	194886	Pallet, Type 43
179697	Lever, Left Stop 47	192547	Arm, Suppression 10	194956	Spring 15
179698	Armature 46, 47	192548	Bail 36	194982	Clip, Connector 26
179699	Shaft 46, 47	192549	Pin 36	194998	Plate, Mounting 56
179700	Bracket, Right Hinge 46	192560	Slide 18	194999	Cable Assembly 56
179701	Lever, Right Stop 46	192561	Bar w/Hub 18	195000	Lever, Operating 56
179702	Bracket, Right Magnet 46	192563	Bracket w/Stud 18, 21	195001	Insulator, .032" Thk 56
179703	Bracket 46	192566	Link, Left Drive 21, 22	195055	Spring 36
179704	Shaft, Right 46	192567	Link, Right Drive 21, 22	195056	Spring 28
179708	Plate, Adjusting 46	192575	Link, Right 20, 21	195057	Guard, Contact Spring 13
179718	Cable 47	192576	Link, Left 20, 21	195064	thru
179724	Modification Kit 2, 46, 47, 57	192580	Cam 14	195067	Pallet, Type 43
179802	Cover 54	192581	Lever, #1 Transfer 28	195069	Pallet, Type 43
179814	Box Assembly, TD Type 42	192582	Lever, #2 Transfer 28	195070	Pallet, Type 43
179999	Bail, Spring 32, 33, 46, 47	192583	Lever, C Transfer 28	195071	Pallet, Type 43
182909	Spring 24	192584	Lever, #4 Transfer 28	195072	Pallet, Type 43
192013	Connector, 50 Pt Plug Type 26	192585	Lever, #5 Transfer 28	195109	Plate, Stap 37
192301	Clutch Assembly, Line Feed 15	192586	Lever, #6 Transfer 28	195150	Lever, Reversing 47
192304	Blade, Bail 37	192588	Bracket 26	195200	Pallet, Type 42, 43
192305	Bail 11	192610	Arm, Slide 5, 11	195201	Pallet, Type 42
192307	Slide 37	192611	Plate, Mounting 12, 57	195202	Pallet, Type 42
192308	Bail, Stripper 37	192614	Lever w/Hub 12	195203	Pallet, Type 42
192309	Pin 37	192616	Lever 12, 13, 57	195205	Pallet, Type 43
192310	Spring, Tarsion 37	192617	Lever, Blocking 12, 13, 57	195206	Pallet, Type 43
192311	Arm 37	192618	Plate, Contact 12, 13, 57	195207	Pallet, Type 43
192312	Shaft 9	192619	Post, Eccentric 12	195240	Post 26
192313	Bracket, Left 4, 37, 51, 54, 61, 64	192620	Bracket, Contact 13	195251	Armature, Selector 26
192314	Handle 37	192621	Bracket, Contact 13	195634	Modification Kit 26
192317	Lever 27	192622	Bracket, Detent 36	195712	Plate, Identification 20
192318	Jumper, 2-3/4" Black 26	192627	Follower, Bellcrank 31	195836	Shaft 14
192321	Stud 18	192628	Bracket w/Stud 31	195855	Pin, Sprocket Feed 8, 44, 55
192322	Spring, Compression 18	192635	Plate w/Stud 27	195996	Gear, 63T 15
192323	Spring 21	192639	Clutch Assembly, Selector 14	196917	Pallet, Type 42
192329	Plate w/Stud 35	192640	Cam, Selector 14	196921	Pallet, Type 42
192332	Bracket w/Stud 35	192641	Plate, w/Posts 27	196924	Pallet, Type 42
192333	Lever w/Bushing 35	192643	Lever w/Hub 27	196929	Modification Kit 11, 37
192337	Spacer, .243" Thk 30, 31	192646	Bushing, Eccentric 27	197751	Modification Kit 5
192339	Plate w/Post 31	192647	Slide 27	197752	Bracket, Support 5
192341	Plate 30, 31	192648	Lever 27	197924	Arm, Left Follower 17
192342	Screw, 2-56 x 1-1/16 Fil 31	192704	Disk, Retaining 45	197957	Gear, 34T 53
192343	Lever w/Hub 30, 31	192706	Modification Kit 45	197958	Gear w/Shaft, 37T 53
192345	Spring, Tarsion 30, 31	192997	Bracket 47	197996	Raller, Front 46, 47
192346	Cable w/Terminal 31	193564	Spring, Contact 54	197997	Box Assembly, TF Type 43
192347	Slide 35	193655	Lever, Function 39	198218	Arm 37
192348	Lever w/Hub 35	193858	Frame, Left Side 5	198416	Stud, Shoulder 39
192459	thru	194019	Pallet, Type 43	198454	Arm, Power Drive 40
192480	Bar, Function 41	194037	Pallet, Type 43	198455	Link 40
192483	Cable w/Terminals 31	194039	Pallet, Type 43	198456	Link 40
192484	Cable w/Terminals 26	194052	Plate, Form Stop 12, 45	198457	Bracket 40
192487	Contact Assembly 13	194093	Modification Kit 5, 11	198463	Bar, Function 41
192488	Contact Assembly 13	194208	Pallet, Type 43	198464	Bar, Function 41
		194209	Pallet, Type 43		
		194324	Modification Kit 2, 52		

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
198465	Bar, Function 41	305090	Box Assembly, TP Type 43	311456	Modification Kit 2, 56
198467	Bar, Function 41	305130	Bracket 51	311457	Bracket, Bail 56
198468	Bar, Function 41	305465	Contact Assembly 13	311458	Modification Kit 58
198469	Bar, Function 41	305473	Bail 13	311459	Modification Kit 58
198470		305474	Bracket 13	311460	Modification Kit 58
thru		305539	Modification Kit 2, 61	311461	Modification Kit 58
198473	Bar, Function 41	305540	Modification Kit 2, 61	311462	Bracket 58
198483	Solenoid 40	305541	Slide, Stripper 61	311464	Slide 58
198492	Stud 40	305551		311465	Lever 58
198496	Solenoid 40	thru		311466	Tray, Paper 58
198497	Lever w/Hub 36	305556	Pallet, Type 42	311467	Tray, Paper 58
198498	Bail 36	305558		311468	Tray, Paper 58
198500	Modification Kit 40	thru		311469	Tray, Paper 58
198502	Pin, Solenoid Plunger 40	305568	Pallet, Type 42	311471	Bracket, Left 58
198503	Bushing, Shoulder 40	305584	Pallet, Type 43	311730	Cable Assembly 58
198506	Spring 36	305589	Pallet, Type 42, 43	312395	Bracket 40
198507	Resistor, 100 Ohm 40	305590	Pallet, Type 43	312571	Lever w/Hub 36
199224	Bar, Function 41	305677	Cable w/Terminals 52	312711	Modification Kit 57
199225	Bar, Function 41	305733	Modification Kit 2, 52	312755	Post, Eccentric 57
199408	Bracket 57	305771	Bracket, Guide 50	312756	Bracket, Contact 57
199410	Arm 22	306098	Wire, Guide 56	312757	Plate 57
199440	Screw, 6-40 x 5/8 Fil 14, 15	306646	Contact Assembly 35	312980	Bail, Right 56
199457		306648	Spring, Contact 35	312981	Bail, Left 56
thru		306670		315532	Bar, Function 41
199463	Pallet, Type 43	thru		315533	Bar, Function 41
199773	Pallet, Type 42	306685	Guide, Form 44	317218	Bar, Function 41
199974	Box Assembly, TH Type 43	306686		317353	Box Assembly, TY Type 42
199986	Box Assembly, TJ Type 43	thru		319936	Screw, 4-40 Shoulder 40
199987	Pallet, Type 42, 43	306702	Modification Kit 44	319937	Bracket 40
199989	Pallet, Type 43	306704	Bar, Function 41	320028	Bar w/Hub 21
199990	Pallet, Type 43	306705	Bar, Function 41	320443	Lever w/Hub 36
301761		306706	Bar, Function 41	321095	Bracket, Tie 59
thru		306979	Box Assembly, TL Type 42	321096	Bracket 59
301764	Bar, Function 41	307065	Modification Kit 53	321097	Lever 59
304395	Spring 21	307076	Gear, 30T 15	321098	Bar w/Post 59
304396	Plate, Stop 53	307077	Clutch Assembly, Selector 14	321099	Modification Kit 2, 59
304460	Spring 61	307078	Cam, Selector 14	321681	
304461	Bushing 61	307083	Spring, Contact 35	thru	
304463	Slide, Stripper 61	307085	Lever 39	321692	Pallet, Type 43
304464	Blade w/Stud 61	307180	Box Assembly, TN Type 43	321694	
304465	Blade, Stripper 61	307255	Pallet, Type 42	thru	
304740	Head, Print Hammer 34	307256	Pallet, Type 42	321700	Pallet, Type 43
304769	Plate w/Post 30, 31	307257	Pallet, Type 42	321702	Pallet, Type 43
304771	Lever w/Hub 30, 31	307289	Lever 53	321703	Pallet, Type 43
304772	Guide, Paper 44	307299	Lever 53	321705	Box Assembly, DB Type 43
304773	Guide, Paper 44	307864	Retainer 37	321780	Pallet, Type 43
304774	Guide, Paper 44	309690	Box Assembly, TX Type 42	321782	Cover, Contact 40
304775	Guide, Paper 44	309692	Bumper, Rubber 5	321983	Box Assembly, DC Type 42
304778	Bail w/Wire 56	310309	Bracket w/Post 5, 12	323051	Plate w/Post 30
304779	Bail w/Wire, 8-1/2" Wide 56	310309	Box Assembly, TR Type 43	323052	Guide, Paper 30
304833	Box Assembly, TM Type 42	310657		323070	Cam 62
305022	Shaft 55	thru		323077	Spacer 30
305023	Lock, Shaft 55	310666	Pallet, Type 43	323078	Lever w/Hub 30
305024	Arm, Right 55	311071	Box Assembly, TS Type 42	323508	Box Assembly, DE Type 42
305025	Retainer, Platen Hub 55	311407	Box Assembly, TV Type 42	323592	Contact Assembly 36
305026	Hub, Right Platen 55	311412	Post, Eccentric 25	323593	Lever w/Hub 36
305027	Arm, Right 55	311413	Post, Eccentric Guide 29	323594	Lever w/Hub 36
305028	Guide, Paper 55	311414	Post, Spring 29	323595	Plate, Contact 36
305029	Hub Assembly, Platen 55	311415	Post, Spring 29	323599	Cover, Insulating 36
305031	Gear w/Shaft, 28T 53	311416	Bracket, Stop 29	323600	Box Assembly, DF Type 42
305033	Handwheel 53	311417	Lever, Latch 29	324081	Lever 28
305034	Arm w/Hub 53	311418	Arm 29	324095	Modification Kit 56
305035	Modification Kit 2, 53	311419	Arm 29	324098	Bail 56
305036	Modification Kit 2, 9, 53	311420	Cover, Insulating 35	324099	Bracket w/Shaft 56
305037	Modification Kit 2, 55	311422	Lever, Reset 25	324465	Box Assembly, DG Type 43
305058	Guide, Form 55	311423	Bracket, Guide 29	325966	Insulator 13
305092	Box assembly, TK Type 42	311424	Plate 16, 25, 26	325967	Modification Kit 2, 64
		311424	Lever 29	326478	Spring, Torsion 56
		311425	Bail, Reset 29	326799	Spring, Torsion 58
		311426	Bracket 29	328110	Spring, Contact 35
				330681	Modification Kit 50

35 AUTOMATIC SEND-RECEIVE KEYBOARD (LAK)  
PARTS

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Keyboard Base	2	16	Signal Generator Rear Plate Mechanism	15
2	Keyboard Base (Continued)	3	17	176352, 197019 and 199070 Contact Box Assemblies	16
3	198240 Code Reading Contact Assembly	4	18	Bearing Bracket Mechanism	17
4	Function Bail Mechanism	5	19	155990 Character Counter Mechanism	18
5	Gear Sets	6	20	Tape Container	19
6	144770 Intermediate Gear Assembly	6	21	199330 Modification Kit to Provide Alarm and Don't Answer on Low Tape	19
7	Code Bar Mechanism (Non-Parity)	7	22	Cable Components	20
8	Code Bar Mechanism (Even Parity)	8	23	Keytops and Keylevers	21
9	Code Bar (Even Parity)	9	24	Keytops (Continued)	22
10	Keyboard Mechanism	10	25	324584 Modification Kit for Signal Regenerator	23
11	170332 Universal Bail Mechanism	11	26	323608 Circuit Card Components	24
12	Bail Lock Mechanism	11		Numerical Index	25
13	Signal Generator Shaft Mechanism	12			
14	Signal Generator Frame Mechanism	13			
15	Signal Generator Front Plate Mechanism	14			

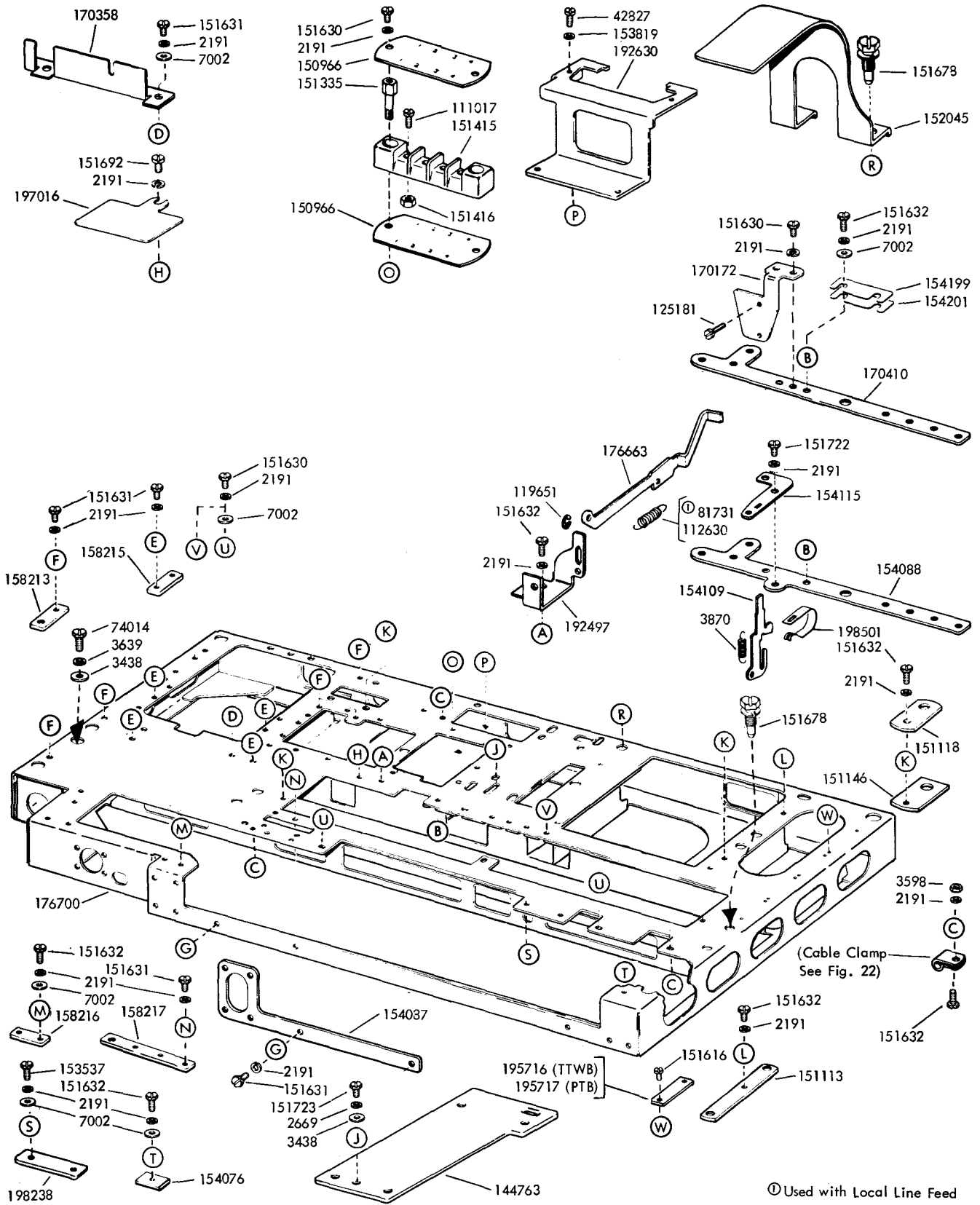


FIGURE 1. KEYBOARD BASE

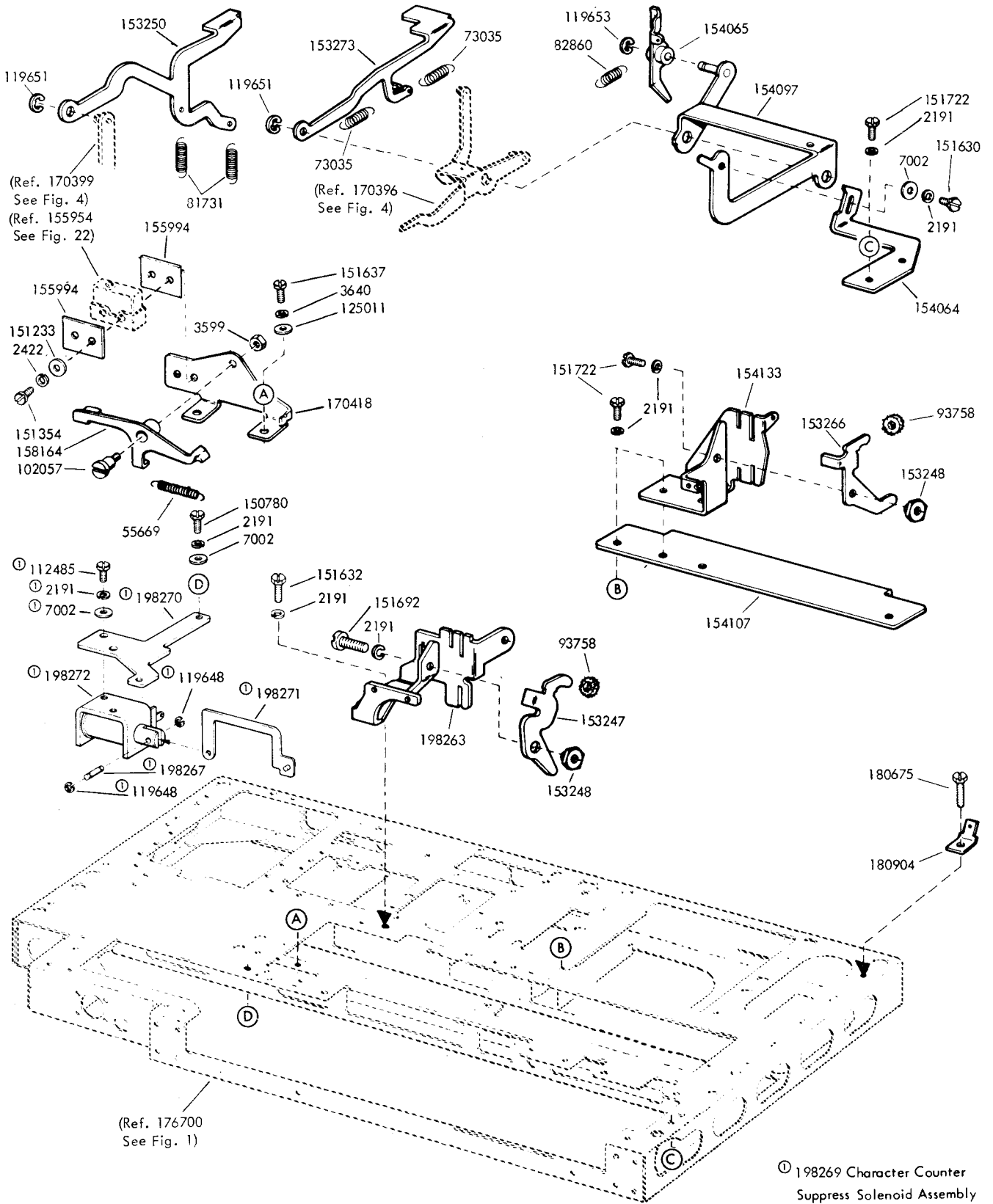


FIGURE 2. KEYBOARD BASE (Continued)

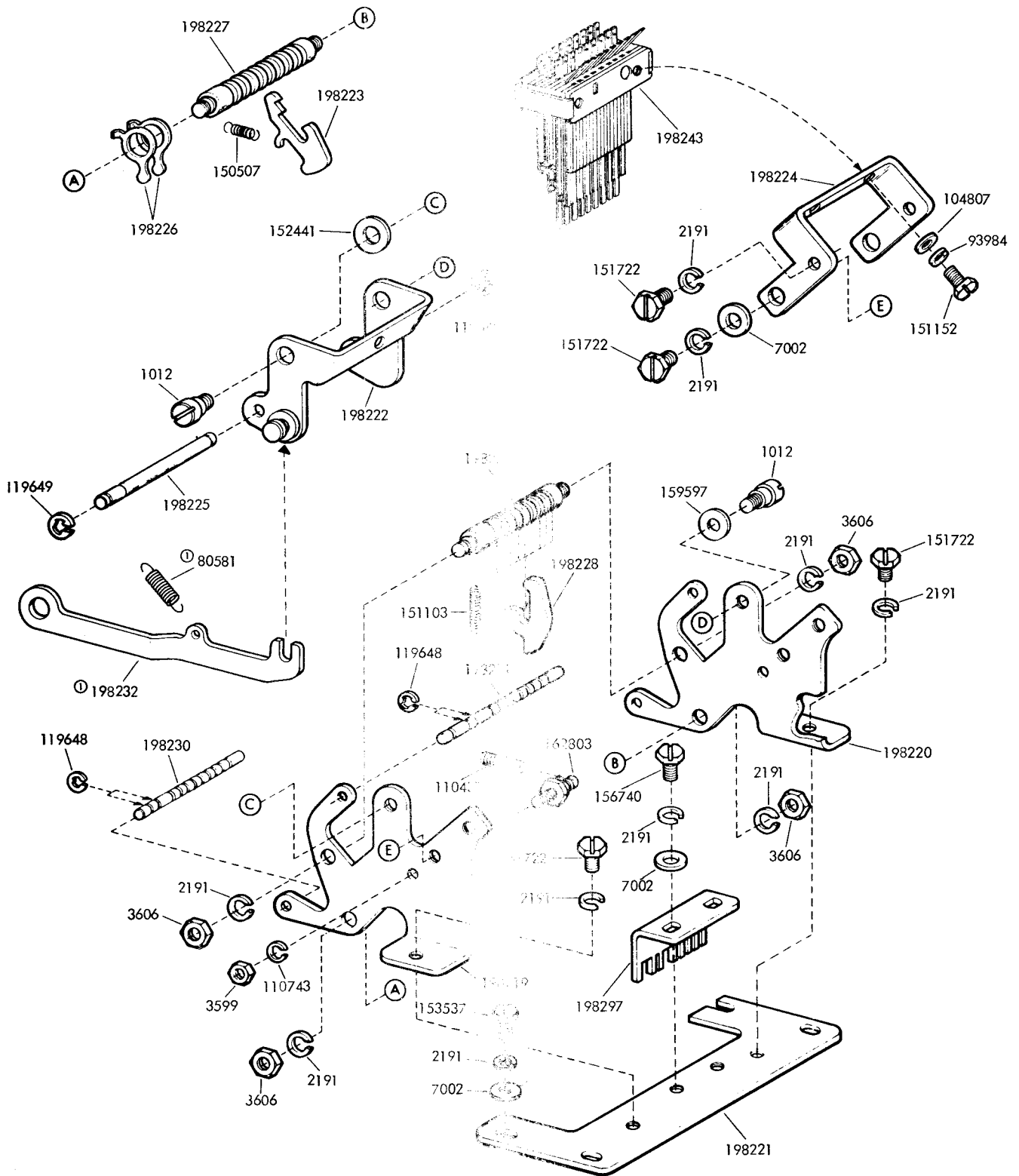
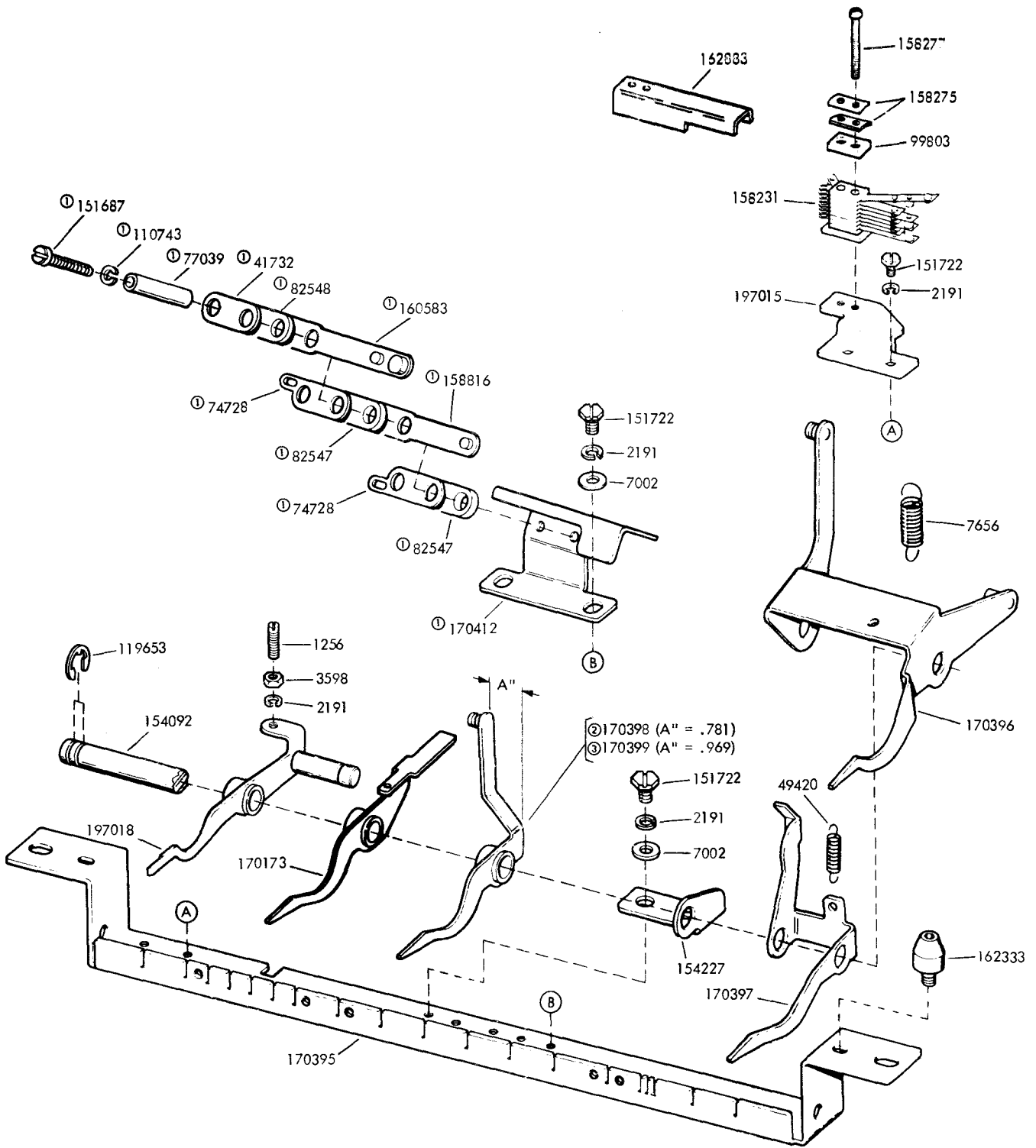


FIGURE 3. 198240 CODE BINDING CONTACT ASSEMBLY





- ① 170413 Contact Assembly
- ② Use with Local Line Feed
- ③ Use with Local Single Line Feed

FIGURE 4. FUNCTION BAIL MECHANISM

GEAR CHART			
Gear Set	161295	311488	315865
Pinion	159284	311490	315861
Gear	159285	311491	315860
Baud	11.00	73.3	75
Code	11.00	11.0	11.0
WPM	100	57	100

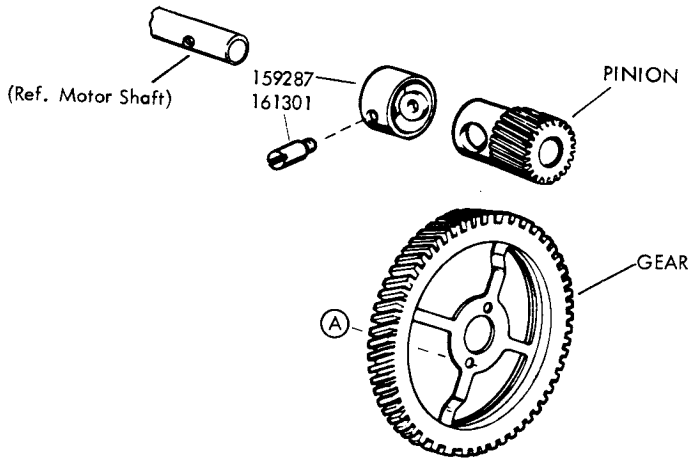
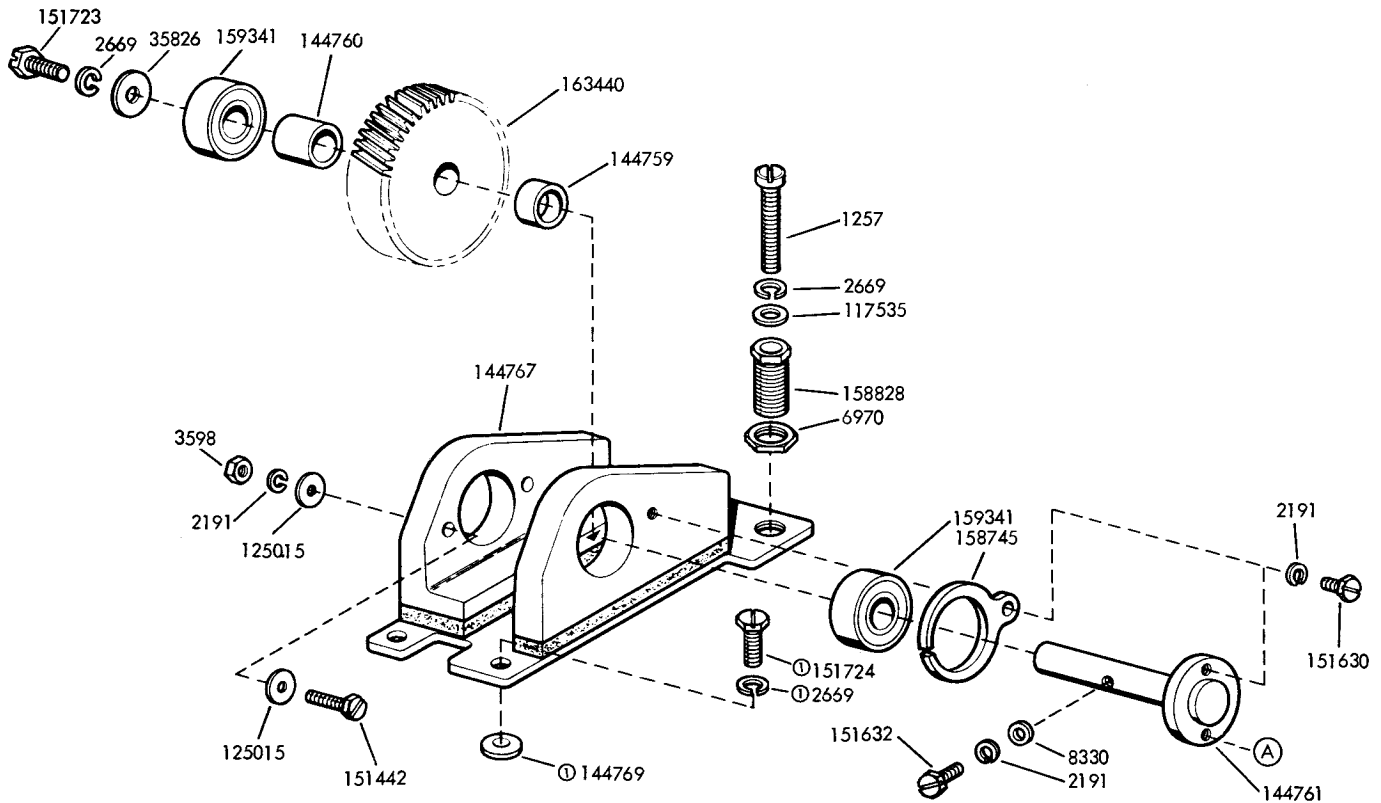


FIGURE 5. GEAR SETS



ⓐ Not part of 144770

FIGURE 6. 144770 INTERMEDIATE GEAR ASSEMBLY

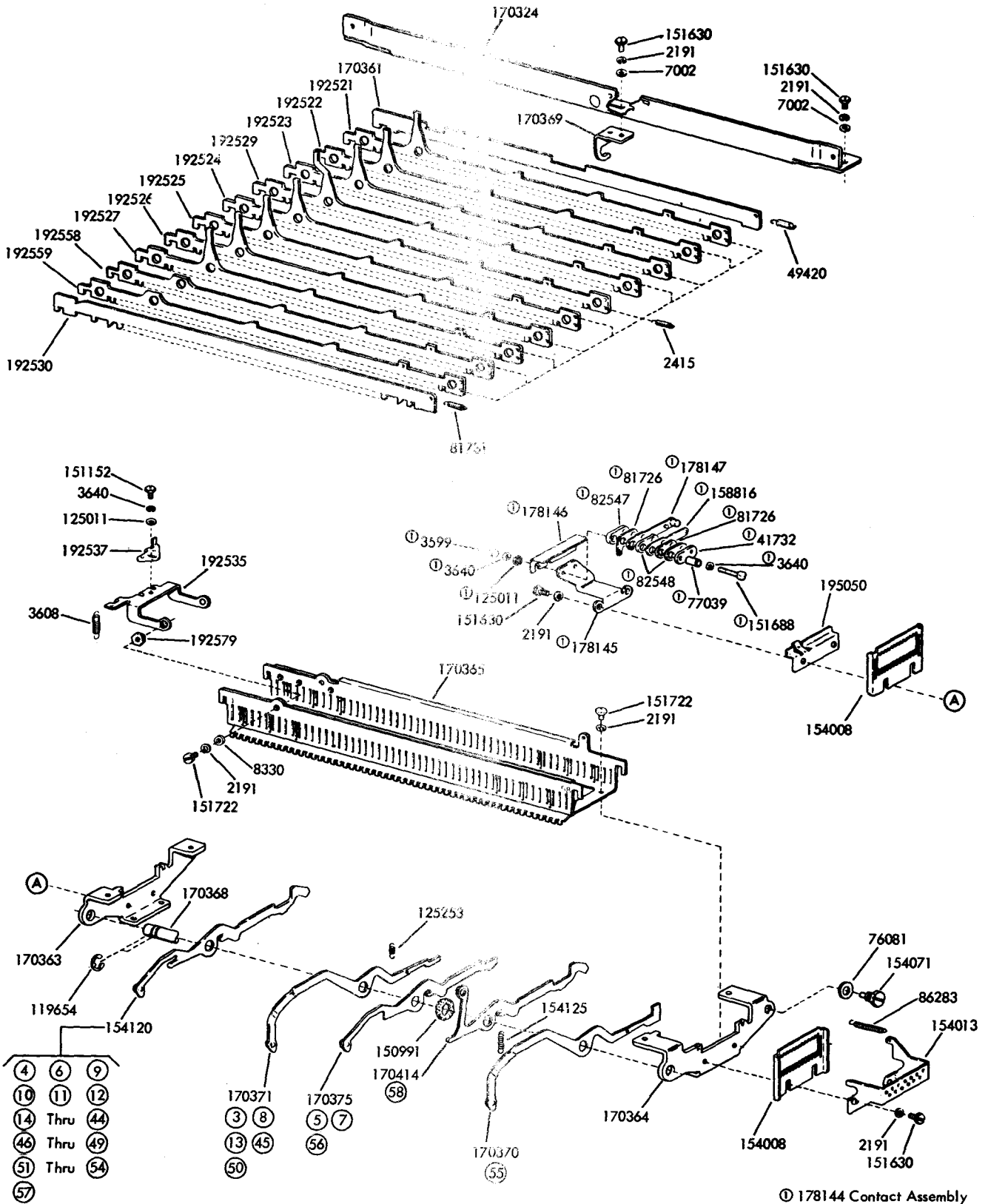


FIGURE 7. CODE BAR MECHANISM (Non Parity)

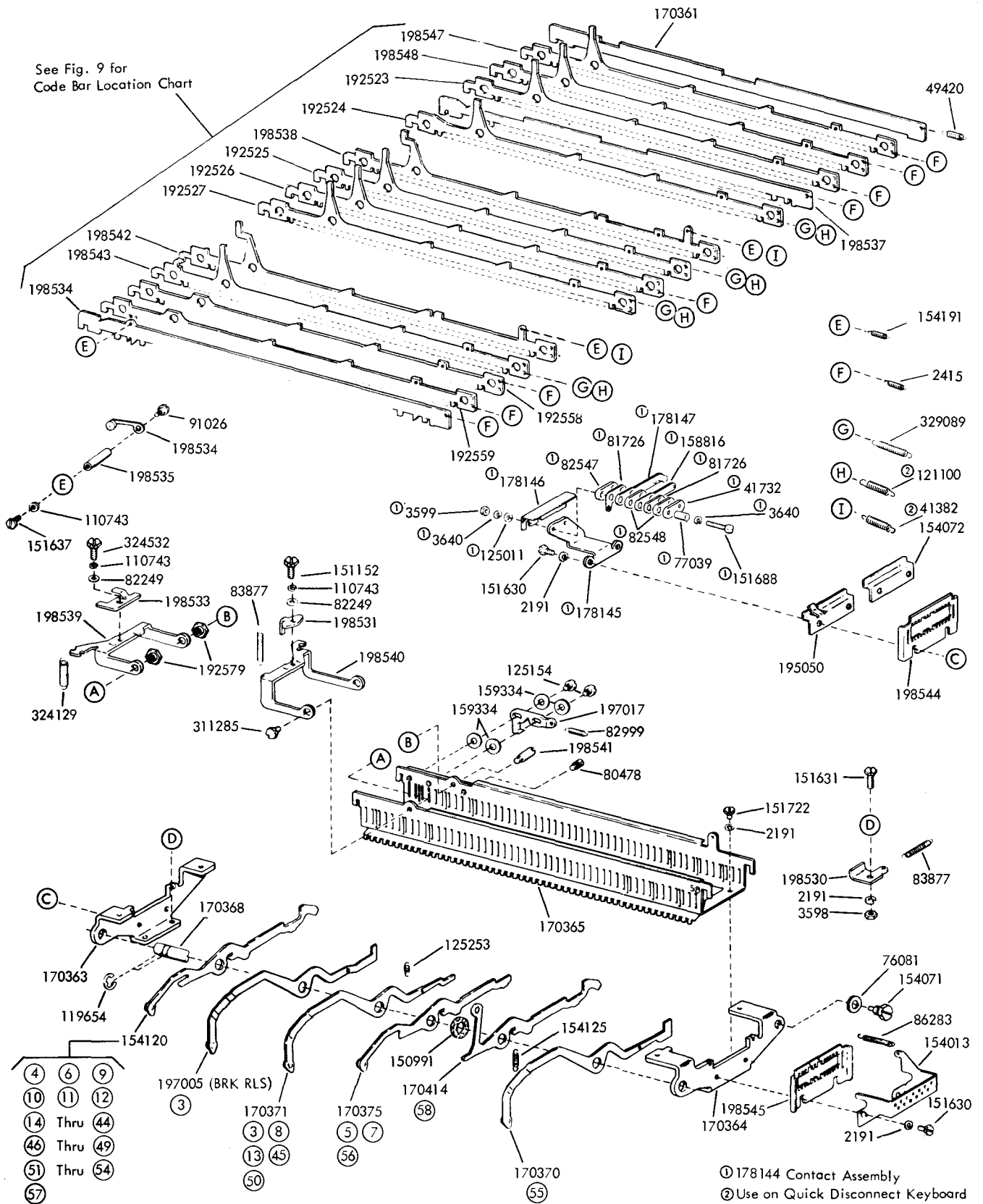
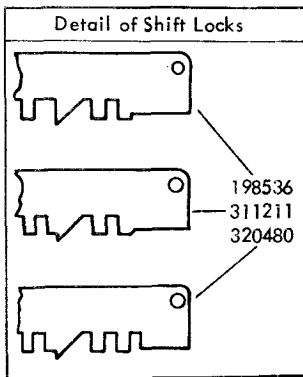
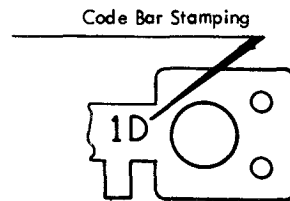
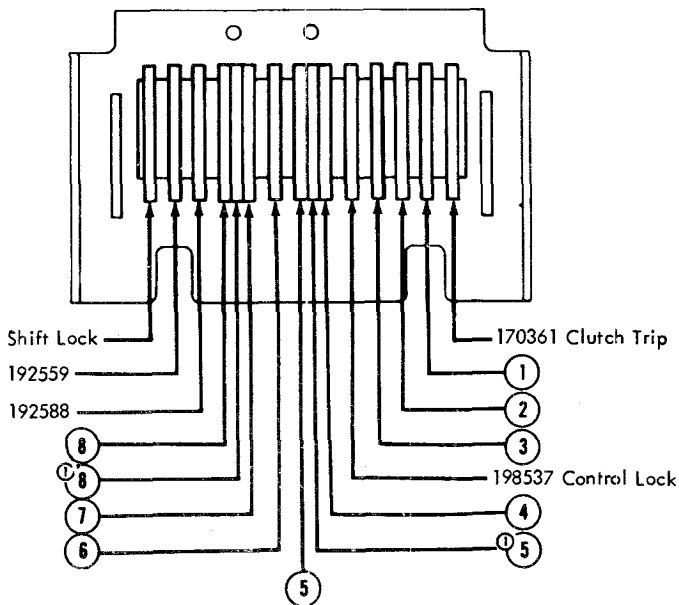


FIGURE 8. CODE BAR MECHANISM (Even Parity)

Location Chart for Even Parity - Code Bars											
Code Bar Location	Shift Lock	⑧	①⑧	⑦	⑥	⑤	①⑤	④	③	②	①
Common Code See Figure 8	198536 See Detail Below	198543 (8)	198542 (8I)	192527 (7)	192526 (6)	192525 (5)	198538 (5I)	192524 (4)	192523 (3)	198548 (2A)	198547 (1A)
Escape II ②	198536 See Detail Below	198543 (8)	198542 (8I)	308431 (7A)	308430 (6A)	192525 (5)	198538 (5I)	192524 (4)	308429 (3A)	198548 (2A)	192521 (1)
Scientific Data System Auto - IDP ③	311211 See Detail Below	311208 (8S)	311533 (8U)	311531 (7R)	311201 (1S)	311205 (5S)	311209 (5T)	311202 (2S)	311204 (4S)	311203 (3S)	311206 (6S)
Scientific Data System - SIGMA Series ④	320480 See Detail Below	320478 (8D)	324580 (8L)	320476 (6D)	320477 (7D)	320475 (5D)	320479 (5E)	320474 (4D)	320473 (3D)	320472 (2D)	320471 (1D)



Code Bars viewed at Right Hand Guide



- ① Inversion
- ② Peculiar to Escape II
- ③ Used with Character Counter
- ④ Use on SDS SIGMA series

FIGURE 9. CODE BARS (Even Parity)

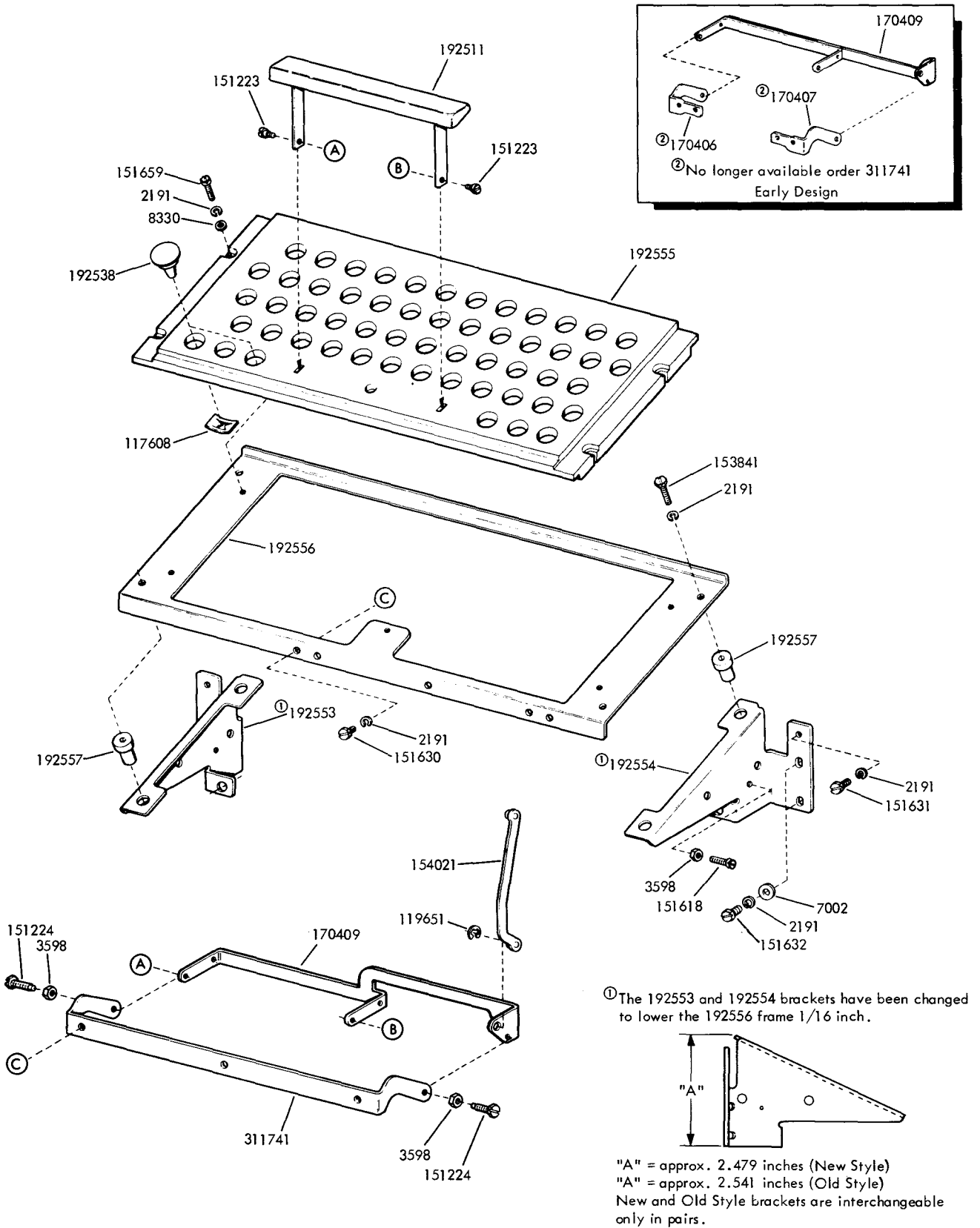


FIGURE 10. KEYBOARD MECHANISM

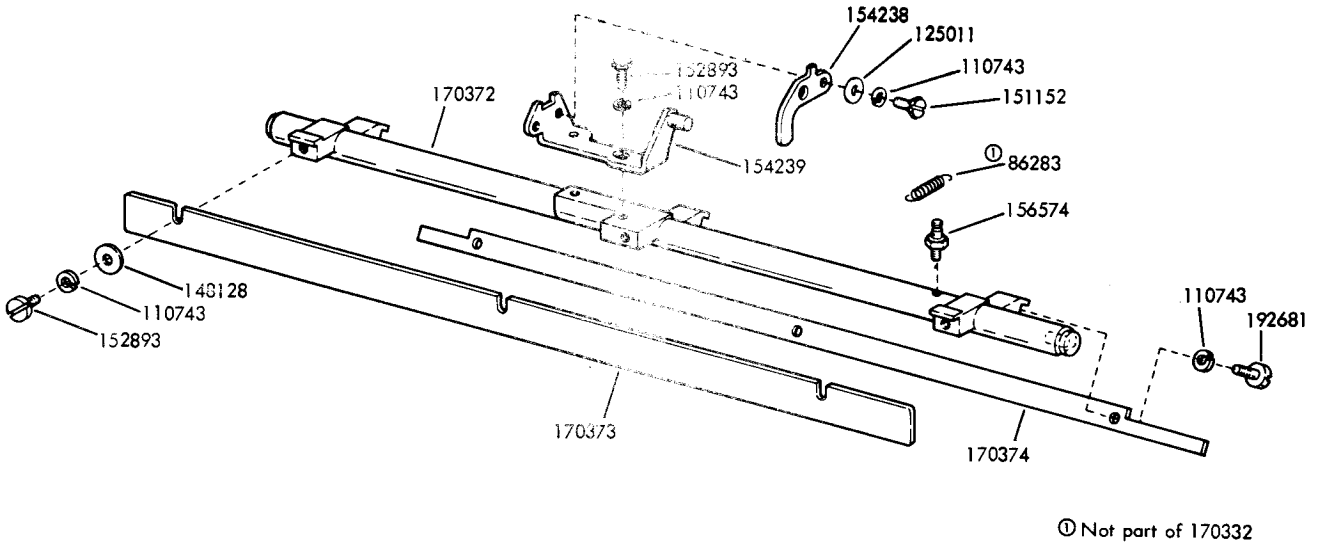


FIGURE 11. 170332 UNIVERSAL BAIL ASSEMBLY

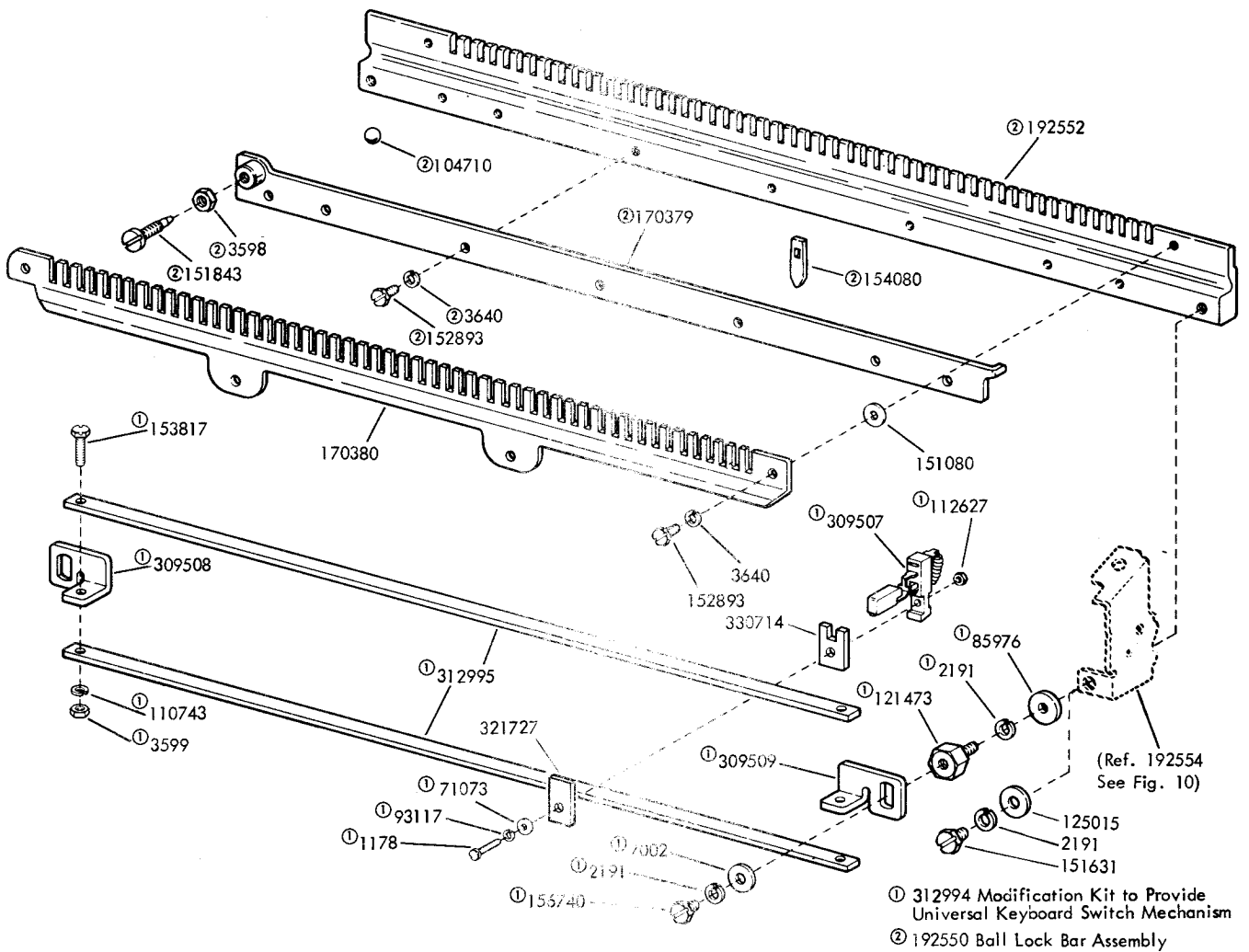


FIGURE 12. BALL LOCK MECHANISM

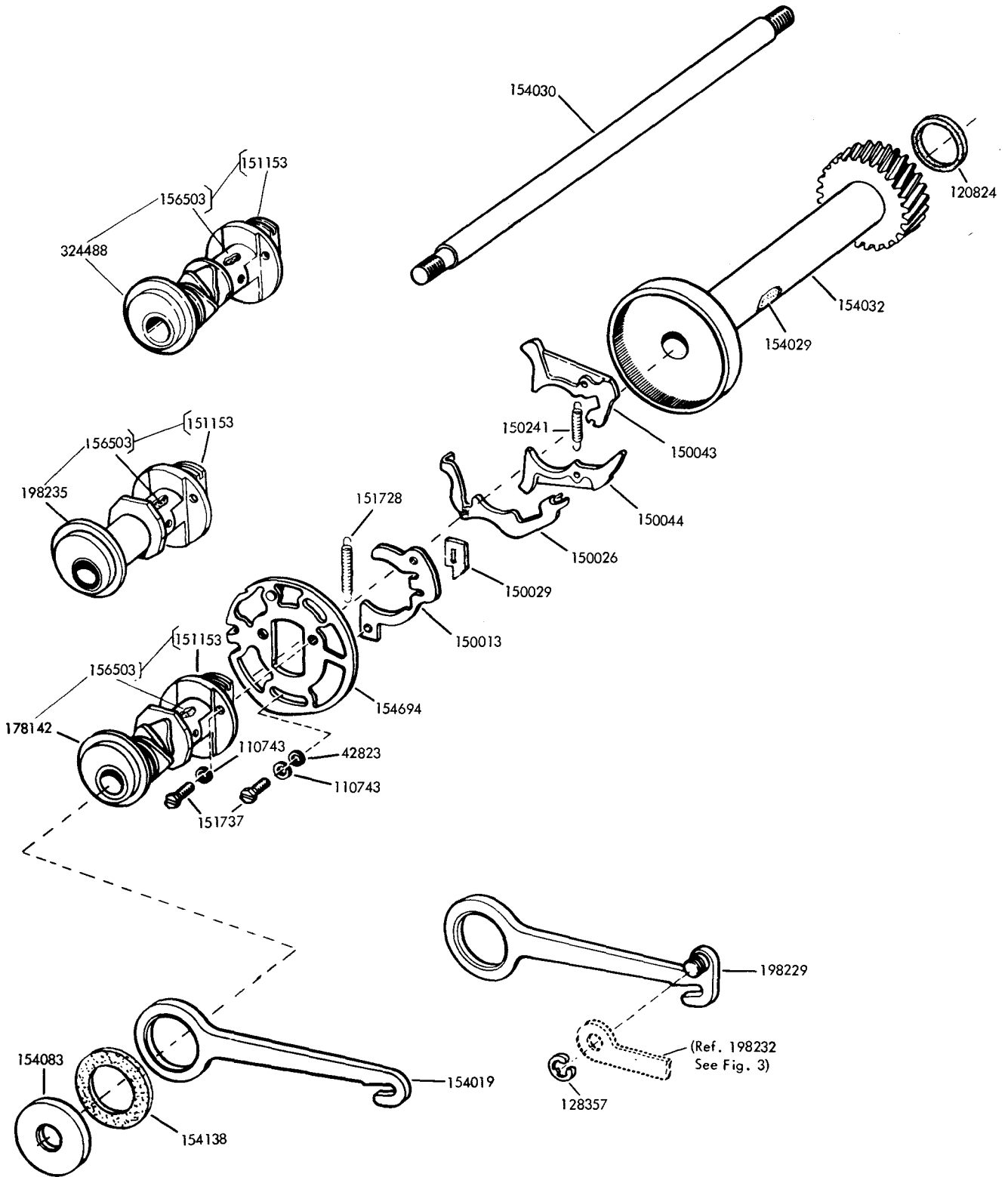


FIGURE 13. SIGNAL GENERATOR SHAFT MECHANISM



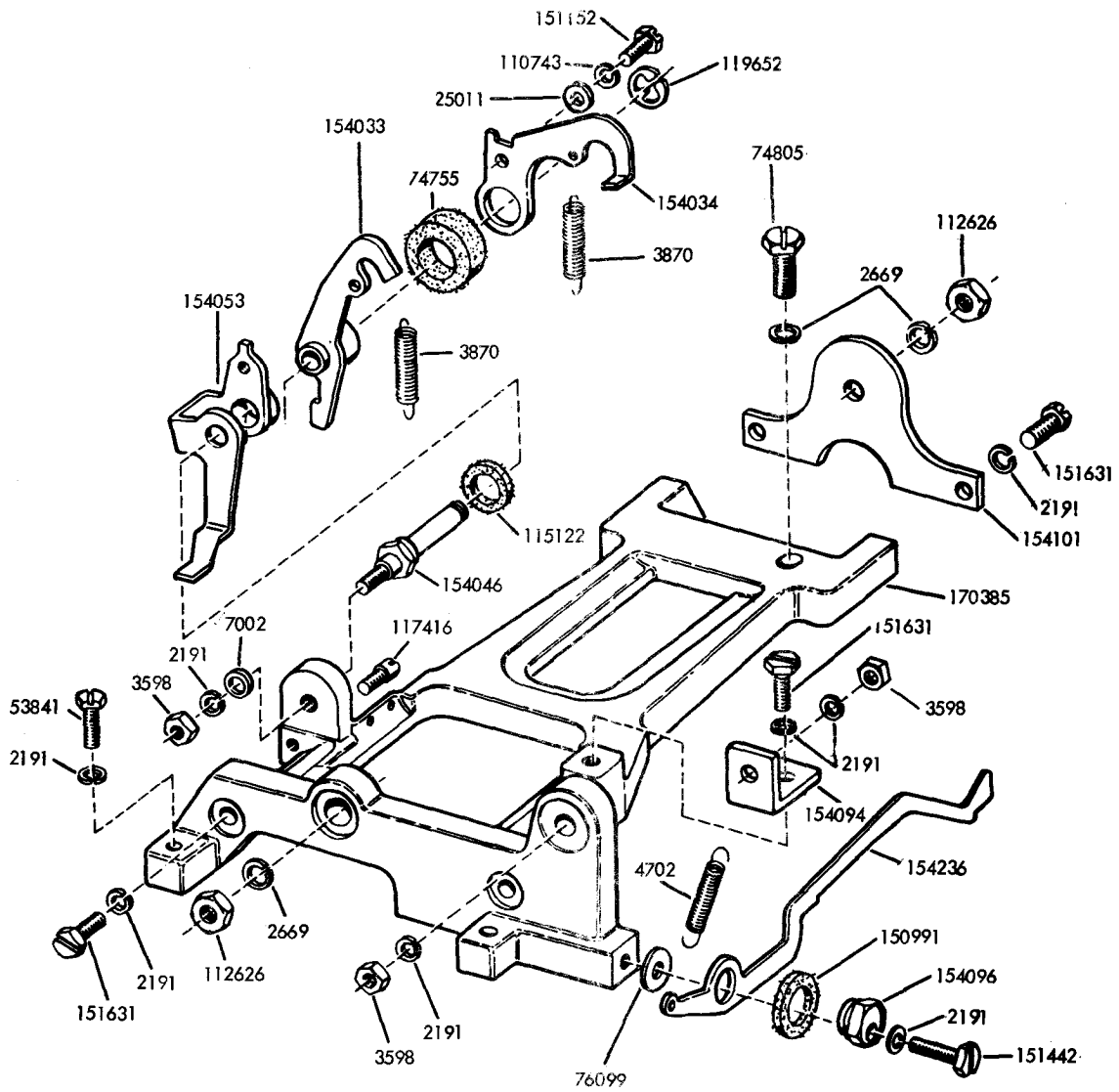


FIGURE 14. SIGNAL GENERATOR FRAME MECHANISM

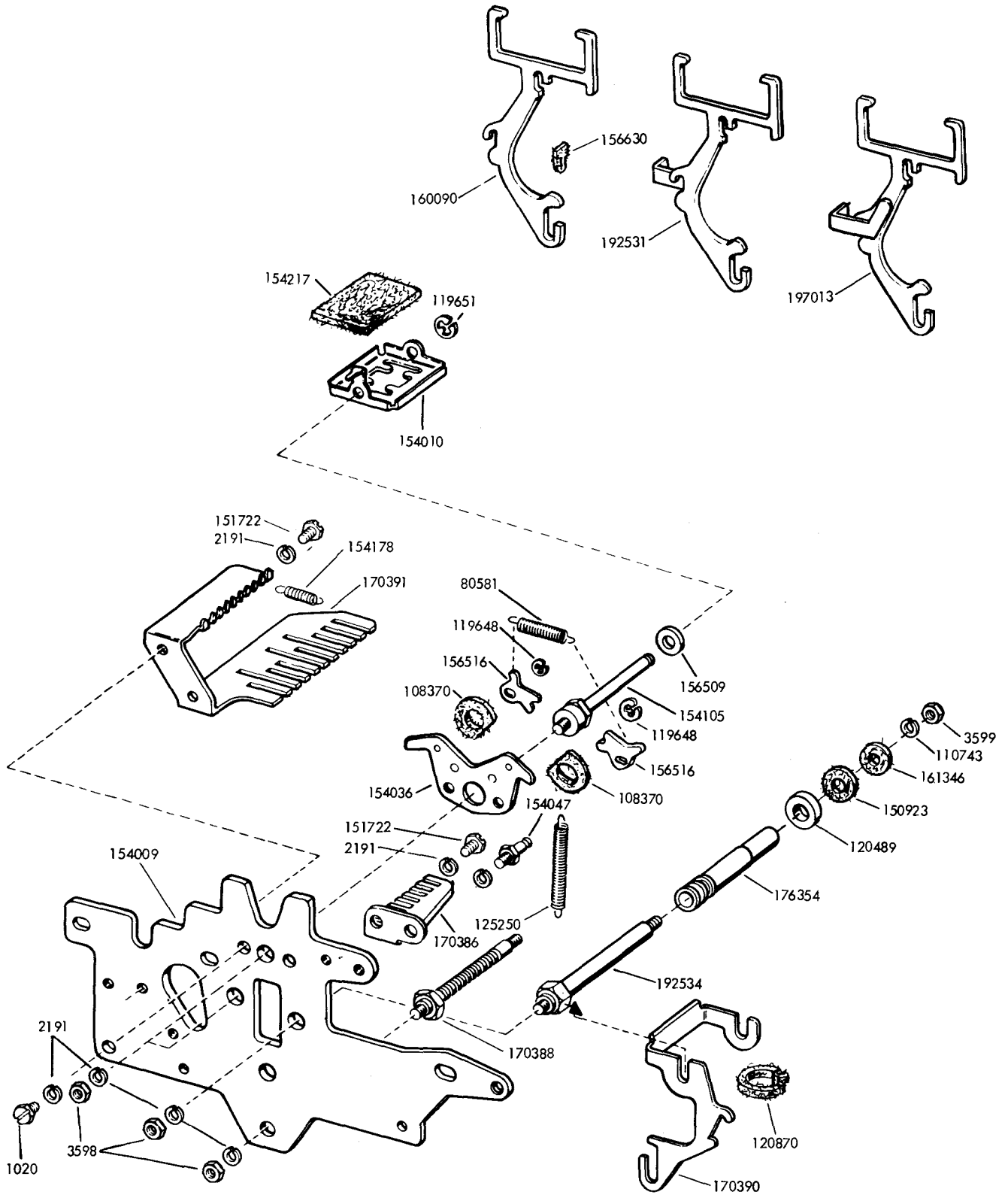
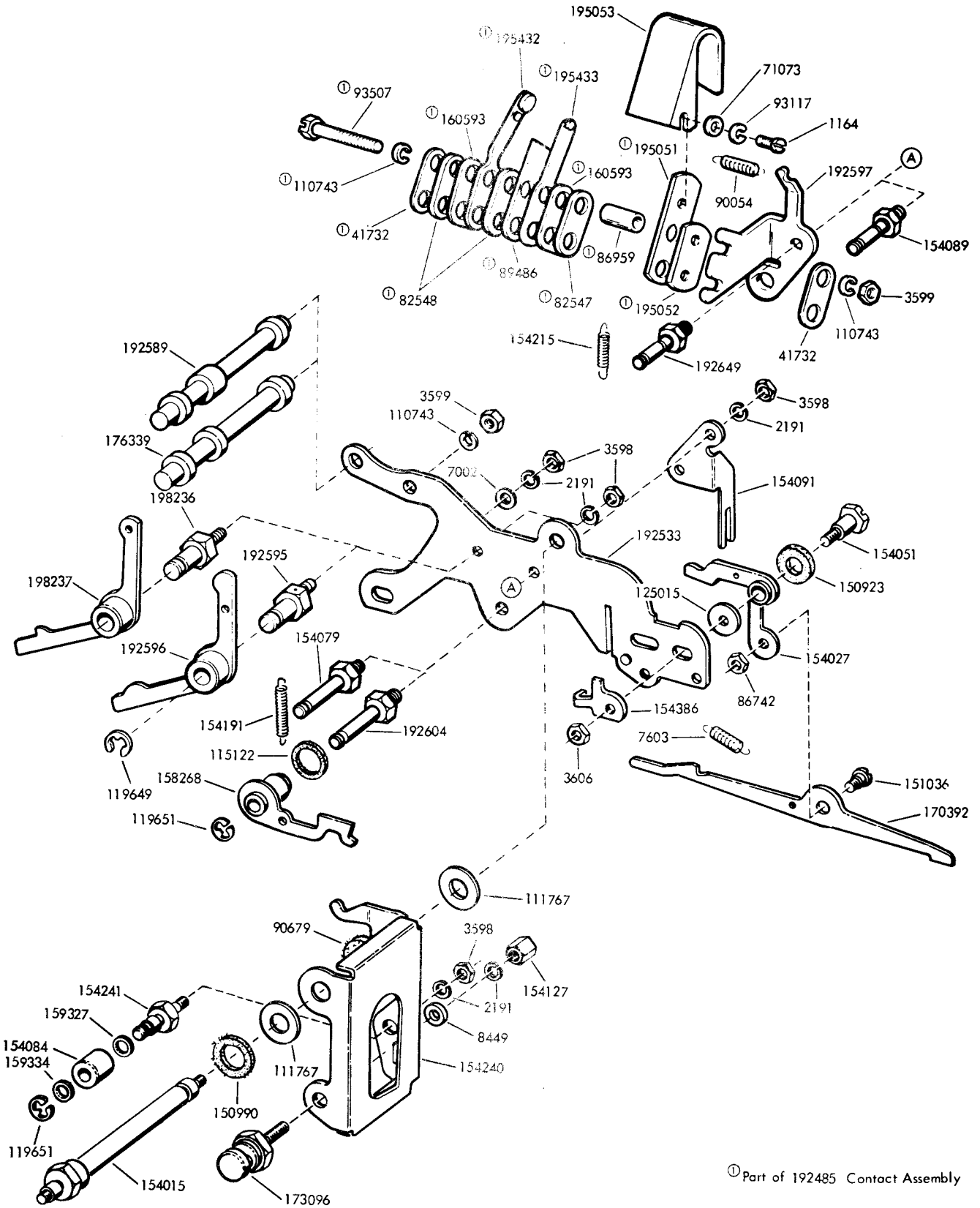


FIGURE 15. SIGNAL GENERATOR FRONT PLATE MECHANISM



① Part of 192485 Contact Assembly

FIGURE 16. SIGNAL GENERATOR REAR PLATE MECHANISM

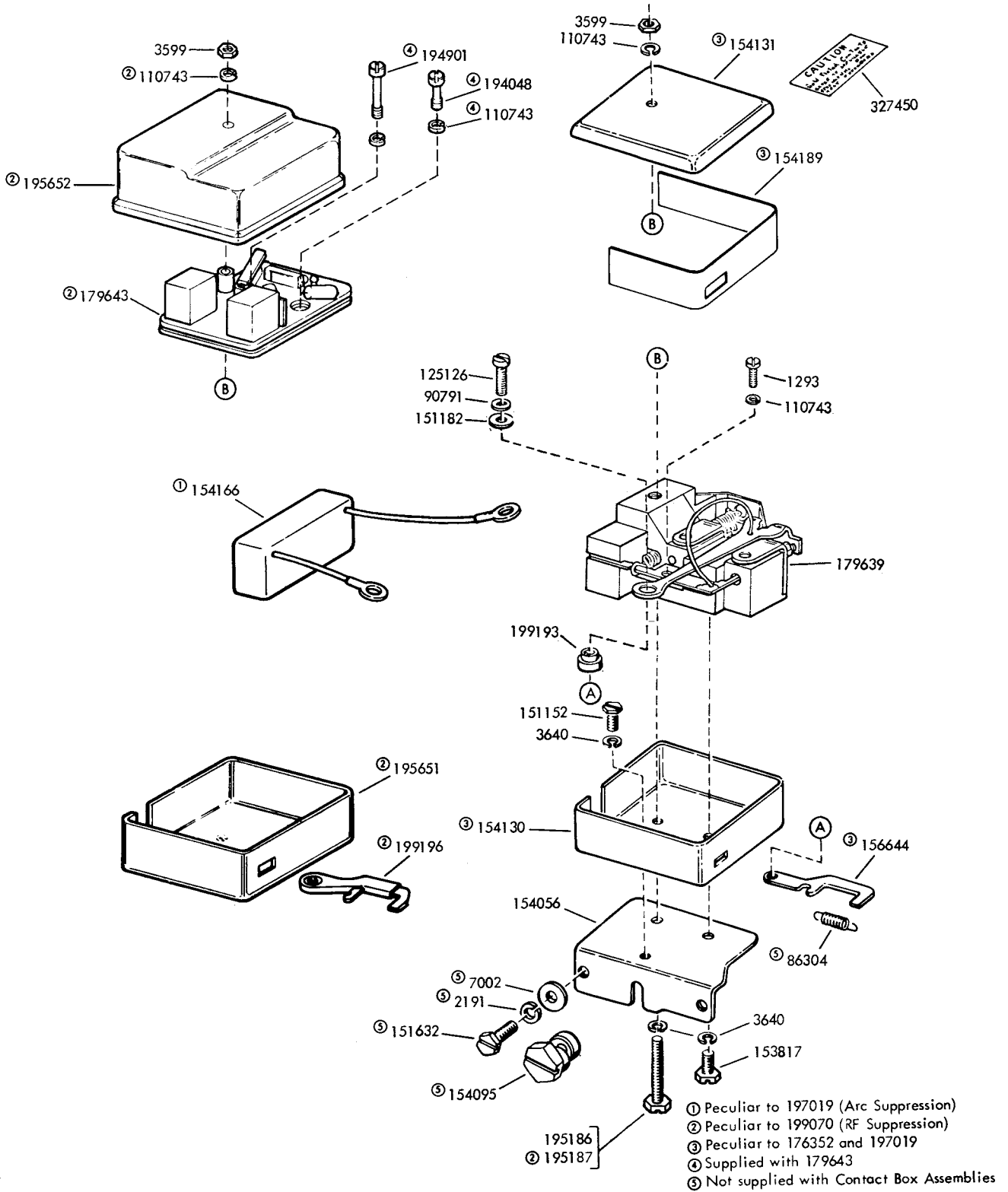


FIGURE 17. 176352, 197019 AND 199070 CONTACT BOX ASSEMBLIES

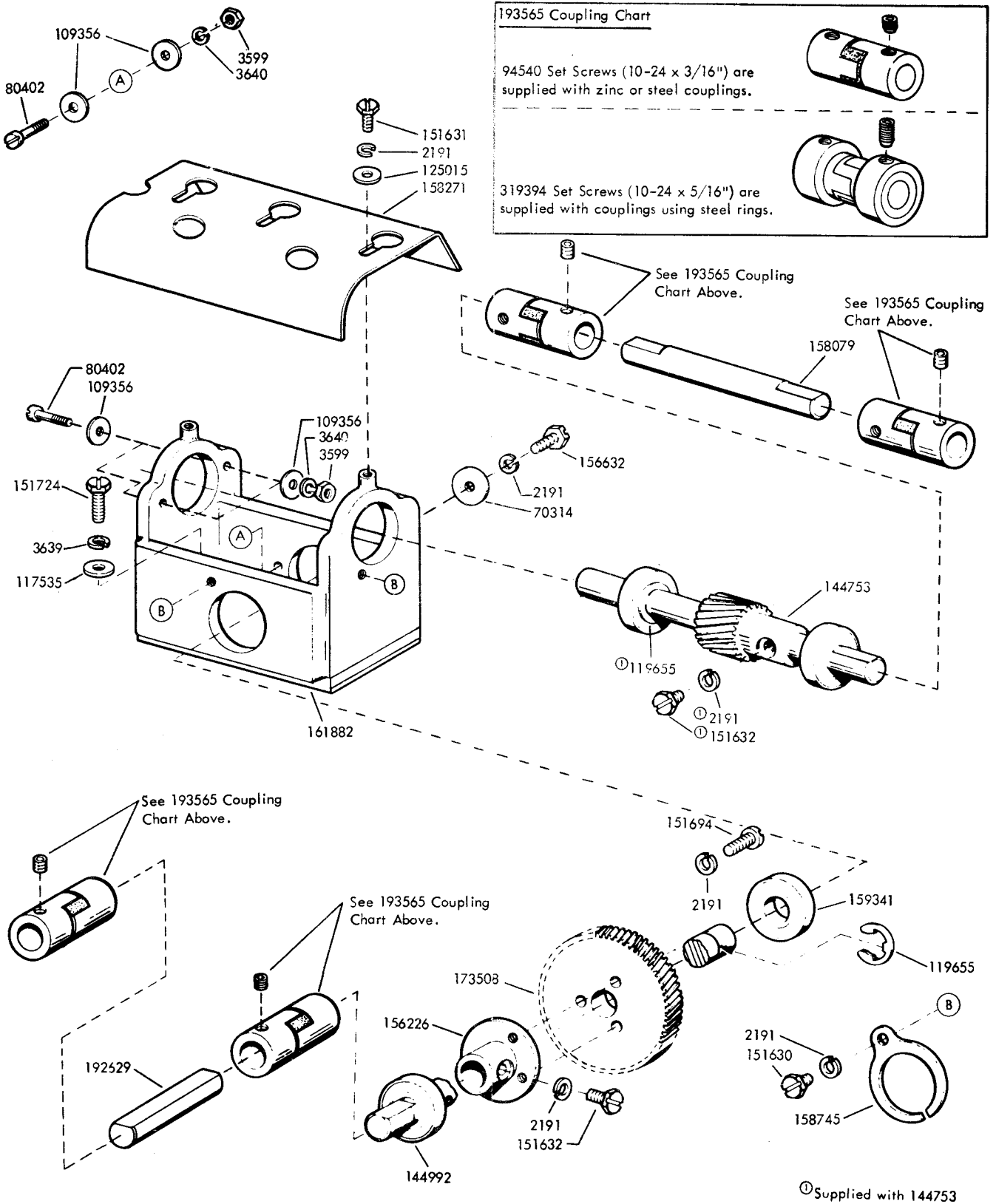
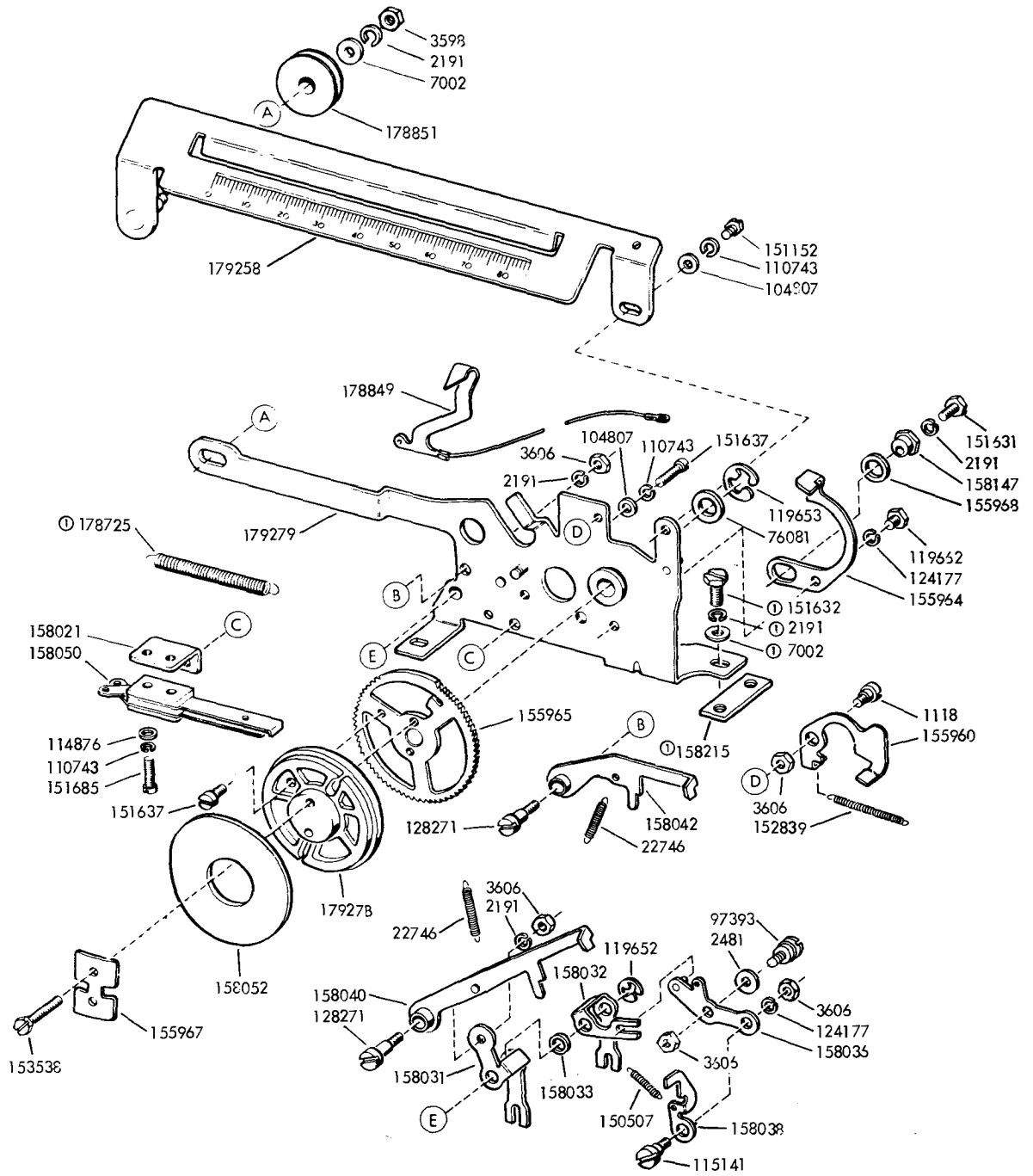


FIGURE 18. BEARING BRACKET MECHANISM



Ⓢ Not part of 155990

FIGURE 19. 155990 CHARACTER COUNTER ASSEMBLY

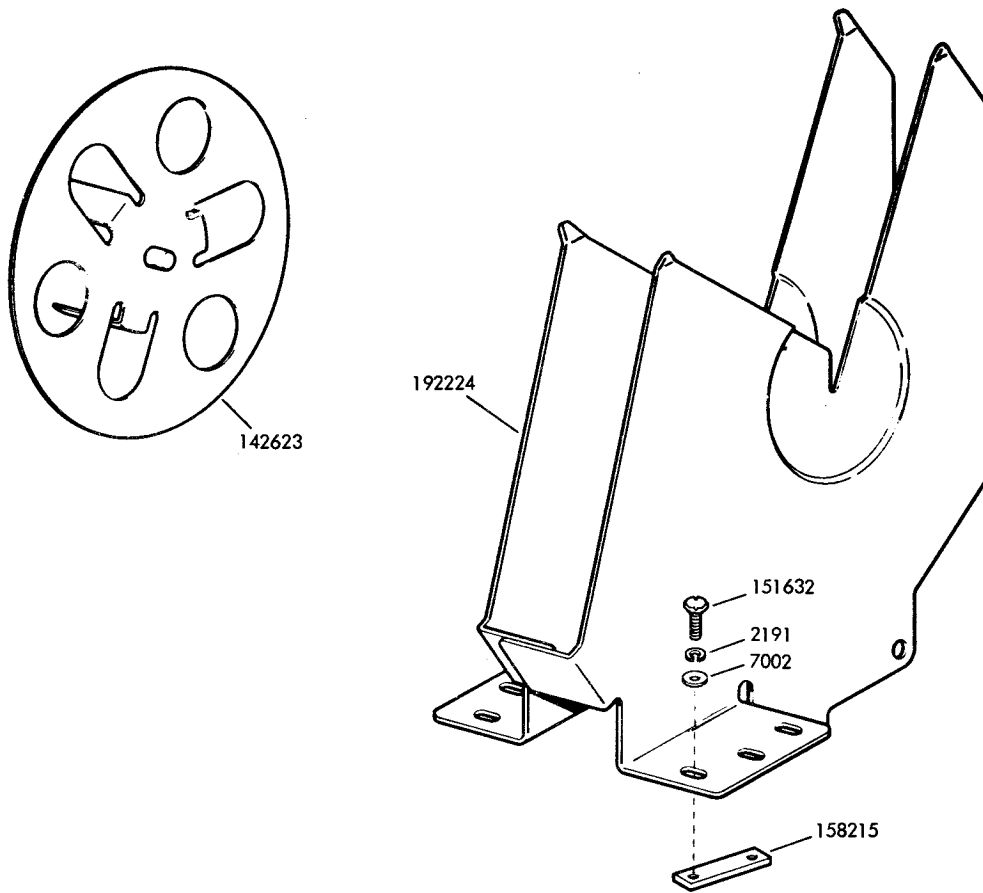


FIGURE 20. TAPE CONTAINER

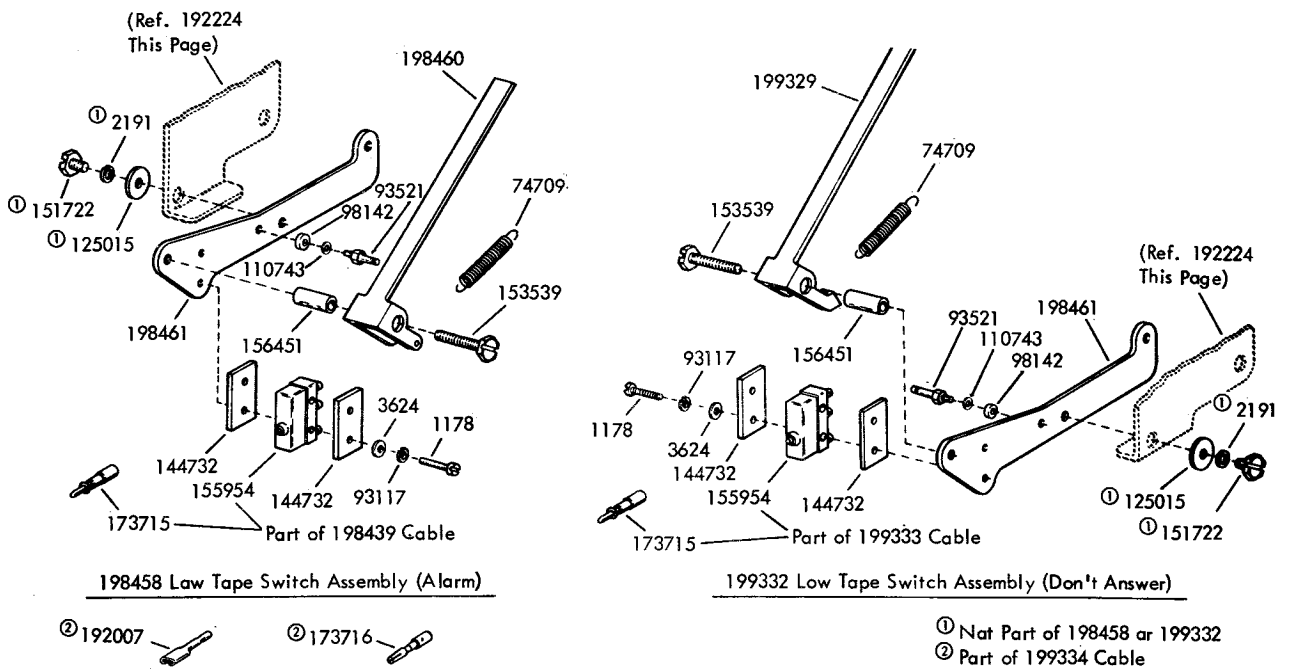
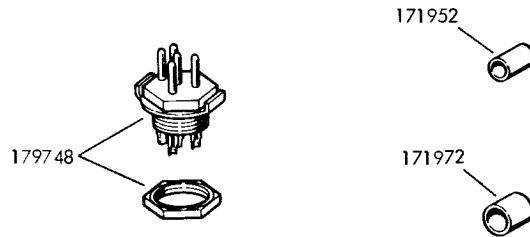


FIGURE 21. 199330 MODIFICATION KIT TO PROVIDE ALARM AND DON'T ANSWER ON LOW TAPE

CABLE CLAMPS	
Part No.	I.D.
121242	1/8
121243	3/16
121244	1/4
121245	5/16
121246	3/8
121247	7/16
121248	1/2
121249	5/8
121250	3/4
121251	1

GROMMETS			
Part No.	A	B	C
154156	3/16	5/16	1/32
154697	1/4	.381	3/32

JUMPERS			
Part No.	Length	Color	Terminals (Amt)
192318	2-3/4"	Black	173715 (2)



INSULATING SLEEVES		
Part No.	I.D.	Length
155750	3/32	1/2"
155751	1/8	1"
155752	5/64	1/2"
155753	1/8	1/2"
155754	1/16	1/2"
155755	11/64	5/8"

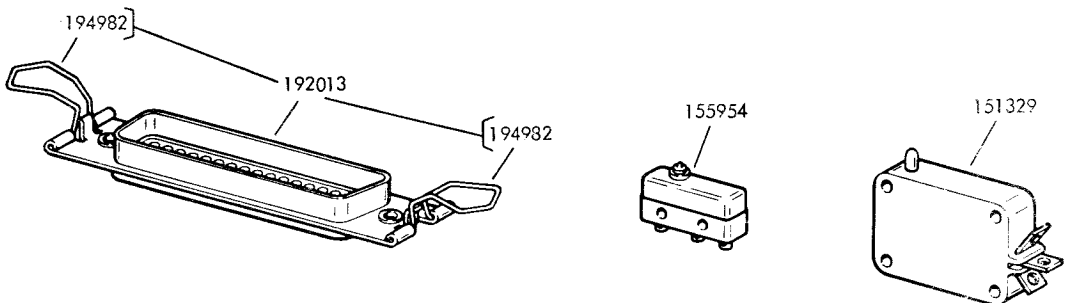
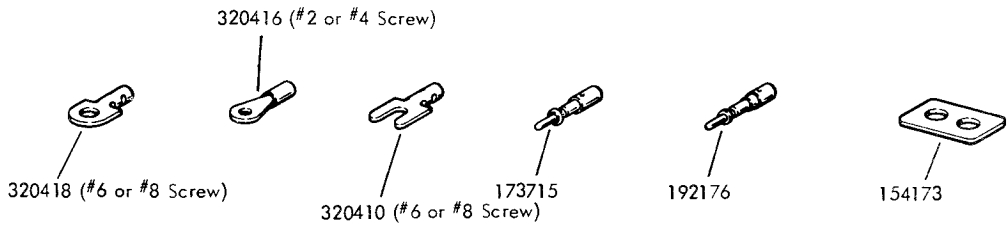
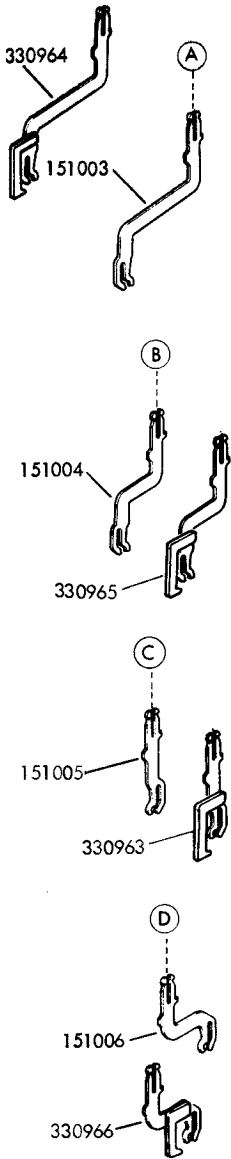


FIGURE 22. CABLE COMPONENTS





KEYTOPS							
KEYTOP DESCRIPTION	PART NUMBER	KEYTOP DESCRIPTION	PART NUMBER	KEYTOP DESCRIPTION	PART NUMBER	KEYTOP DESCRIPTION	PART NUMBER
1 !	180160	E' C,	180333	O →	180326	ESC	180382
1 .	180320	E WRU	180173	O -	184864	- =	180170
2 "	180161	E WRU	② 183889	P	180263	' <	180197
2 ▶	180321	E WRU	③ 185175	P Ⓞ	180180	. >	180198
3 #	180162	F	180273	P ..	180327	; +	180199
3 ■	180334	F RU	180184	Q	180171	/ ?	180200
4 \$	180163	F PRINT	180429	Q START	180422	: *	180205
5 %	180164	G	180274	Q X-ON	② 183888	* :	180324
5 %	180323	G BELL	180185	R	180260	\ ^	180328
6 &	180165	G BELL	② 183890	R TAPE	180174	// ' /	180331
7	180166	G BELL	③ 185273	R TAPE	③ 185167	/ .	180332
7 ' /	184863	H	180186	R PUNCH	180425	*	180335
8 (	180167	I TAB	180178	S	180282	-	180336
9 )	180168	I TAB	③ 185271	S STOP	180428	LOC LF	① 151249
0	180169	J	180187	S X-OFF	180182	LOC CK	① 151250
A	180181	K □	180383	S X-OFF	② 183892	REPT	① 151254
A SOA	180435	K VT	180188	S X-OFF	③ 185174	LOC B SP	① 153280
A SOH	③ 185169	K VTC	180430	T	180261	RUB OUT	180201
A SOM	② 183891	K CVT	③ 185171	T TAPE	180175	RE- TURN	180202
B	180194	L \	180385	T TAPE	③ 185168	LINE FEED	180203
B SOT	180434	L FF \	180431	T PUNCH	180426	ALT MODE	180257
B STX	③ 185166	L \FF	③ 185270	U	180177	CTRL	192299
C	180192	L FORM	180189	V	180193	CTRL	① 323798
C EOM	180432	M	180196	V PRINT	180433	CTRL	② 305064
C ETX	③ 185165	M □	180384	W	180172	SHIFT	192510
D	180278	N	180250	W LEM	180423	BRK RLS	① 197040
D EOT	180183	N ↑	180195	X	180191	LOC S LF	① 198241
D EOT	③ 185170	N ^	185132	Y	180176		
E	180259	O ←	180179	Z	180190		

All Keytops Have Gray Body - White Characters unless otherwise specified

- ① Red Body, White Characters
- ② Gray Body - Yellow Characters
- ③ Gray Body - Red Upper Case - White Lower Case

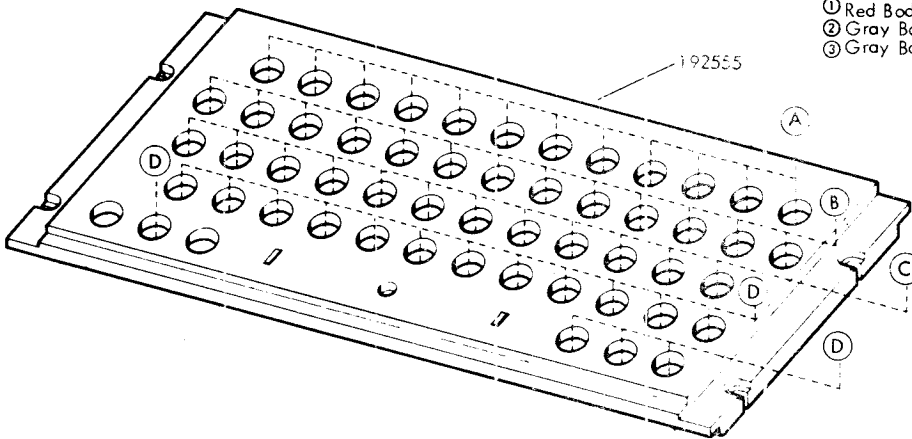
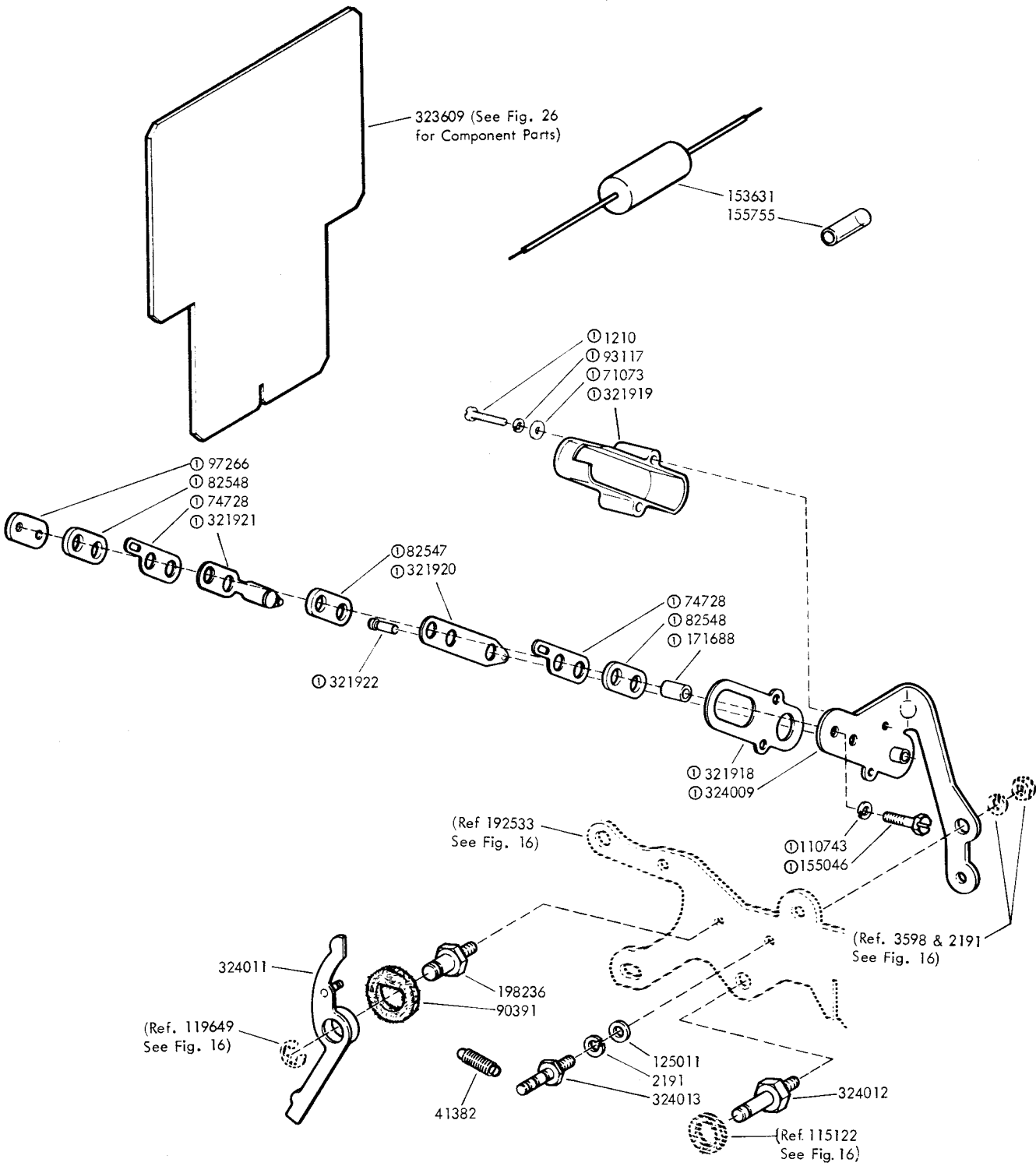


FIGURE 23. KEYTOPS AND KEYLEVERS

KEYTOP DESCRIPTION	PART NUMBER	KEYTOP DESCRIPTION	PART NUMBER	KEYTOP DESCRIPTION	PART NUMBER	KEYTOP DESCRIPTION	PART NUMBER	KEYTOP DESCRIPTION	PART NUMBER
□	185261	TAB ⊕ I	185271	SYN ⊕ V	185281	RESET B	185292	T. FWD T	185302
:	185262	← FFO L	185272	DLE ⊕ P	185282	4B C	185293	T. REV U	185303
□ , :	185263	BELL ⊕ G	185273	ENQ ⊕ E	185283	4A E	185294	8B V	185304
\$ .	185264	DCI ⊕ Q	185274	EM ⊕ Y	185285	DR F	185295	2A W	185305
£ P	185265	DC2 ⊕ R	185275	EOM ⊕ C	185286	CALL N	185296	2B X	185306
* /	185266	DC3 ⊕ S	185276	SOR ⊕ W	185287	PL-1 O	185297	T. STP Y	185307
+ %	185267	DC4 ⊕ T	185277	EOR ⊕ Z	185288	PL-2 P	185298	1B Z	185308
TAPE FEED	185268	ETB ⊕ W	185278	ETB W	185289	1A Q	185299		
■	185269	SUB ⊕ Z	185279	EC W	185290	8A R	185300		
\FF ⊕ L	185270	CAN ⊕ X	185280	PA A	185291	RPR S	185301		

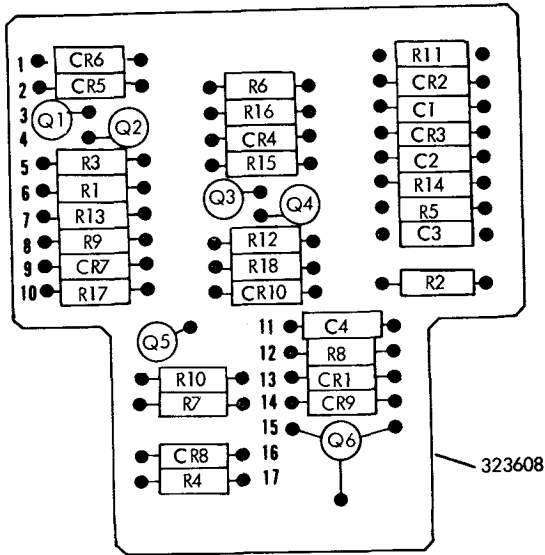
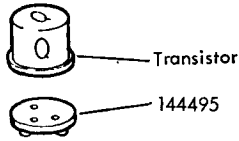
⊕ Red Character

FIGURE 24. KEYTOPS (Continued)



Specification 504855  
 ① 324010 Contact Assembly

FIGURE 25. 324584 MODIFICATION KIT FOR SIGNAL REGENERATOR



Reference Designation	Part No.	Total Qty.	Description
C1-C2	148833	2	Capacitor, 0.1 MFD
C3-C4	300384	2	Capacitor, 0.0047 MFD
CR1-3	177108	3	Diode, D2
CR4-5	197464	2	Diode, 1N914
CR6	300102	1	Diode, D4
CR7	323607	1	Diode, Zener, 1N970B, 24 V
CR8	300385	1	Diode, Zener, 1N759, 12V
CR9	323606	1	Diode, Zener, 1N4747A, 20V
CR10	178844	1	Varistor, 100A
R1-R6	129854	6	Resistor 10K Ohms
R7	118144	1	Resistor, 2.7K Ohms
R8	143667	1	Resistor, 3.9K Ohms
R9	118143	1	Resistor, 1.8K Ohms
R10-12	129853	3	Resistor, 2.2K Ohms
R13-14	118186	2	Resistor, 5.6K Ohms
R15-R17	118177	3	Resistor, 22K Ohms
R18	118154	1	Resistor, 47K Ohms
Q1-Q4	315930	4	Transistor, 2N3568
Q5	315932	1	Transistor, MM2259
Q6	193134	1	Transistor, N35

FIGURE 26. 323608 CIRCUIT CARD COMPONENTS

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1012	Screw, 6-40 Shoulder 4	86283	Spring 7,8,11	121473	Post 11
1020	Screw, 6-40 x 1/4 Hex 14	86304	Spring 16	124177	Washer, Lock 18
1118	Screw, 6-40 Shoulder 18	86742	Nut, 4-40 Hex 15	125011	Washer, Flat 3,7,8,11,13,23
1164	Screw, 2-56 x 3/16 Fil 15	86959	Bushing, Insulating 15	125015	Washer, Flat 6,11,15,17,19
1178	Screw, 2-56 x 7/16 Fil 11,19	89486	Stiffener 15	125126	Screw, 2-56 x 9/32 Fil 16
1210	Screw, 2-56 x 5/8 Fil 23	90054	Spring 15	125154	Screw, 3-48 Shoulder 8
1256	Screw, 6-40 Set 5	90391	Washer, Felt 23	125181	Screw, 2-56 x 3/8 Fil 2
1257	Screw, 10-32 x 1-1/8 Fil 6	90679	Washer, Felt 15	125250	Spring 14
1293	Screw, 4-40 x 1/8 Fil 16	90791	Washer, Lock 16	125253	Spring 7,8
2191	Washer, Lock 2 to 8, 10,11, 13 to 19,23	91026	Screw, 4-40 Shoulder 8	128271	Screw, 6-40 Shoulder 18
2415	Spring 7,8	93117	Washer, Lock 11,15,19,23	128357	Ring, Retaining 12
2422	Washer, Lock 3	93507	Screw, 4-40 x 3/4 Hex 15	129853	Resistor, 2,200 Ohm 24
2481	Washer, Flat 18	93521	Post, Spring 19	129854	Resistor, 10,000 Ohm 24
2669	Washer, Lock 2,6,13	93758	Washer, Felt 3	142623	Reel, Tape 19
3438	Washer, Flat 2	93984	Washer, Lock 4	143667	Resistor, 3,900 Ohm 24
3598	Nut, 6-40 Hex 2,5,6,8,10,11, 13,14,15,18,23	94540	Screw, 10-24 Set 17	144495	Pad, Transistor Mounting 24
3599	Nut, 4-40 Hex 3,4,7,8,11,14, 15,16,17	97266	Plate, Clamp 23	144732	Insulator 19
3606	Nut, 6-40 Hex 4,15,18	97393	Screw, 6-40 Shoulder 18	144753	Shaft w/Bearings 17
3608	Spring 7	98142	Washer, Flat 19	144759	Spacer, .187" Thk 6
3624	Washer, Flat 19	99803	Insulator, .094" Thk 5	144760	Spacer, .400" Thk 6
3639	Washer, Lock 2,17	102057	Screw, 4-40 Shoulder 3	144761	Shaft 6
3640	Washer, Lock 3,7,8,11,16,17	104710	Ball, Bearing 11	144763	Plate, Nut 2
3870	Spring 2,13	104807	Washer, Flat 4,18	144767	Plate w/Bracket, Bearing 6
4702	Spring 13	108370	Washer, Felt 14	144769	Button, Pivot 6
6970	Nut, 3/8-32 Hex 6	109356	Washer, Flat 17	144770	Gear Assembly, Intermediate 1,6
7002	Washer, Flat 2 to 5, 7,10,11, 13,15,16,18,19	110437	Spring 4	144992	Shaft w/Bearing 17
7603	Spring 15	110743	Washer, Lock 4,5,8,11,12 to 16, 18,19,23	148128	Washer, Flat 11
7656	Spring 5	111017	Screw, 6-40 x 5/16 Fil 2	148833	Capacitor, .1 MFD 24
8330	Washer, Flat 6,7,10	111767	Washer, Flat 15	150013	Disk, Adjusting 12
8449	Spacer, .094" Thk 15	112485	Screw, 6-32 x 1/4 Fil 3	150026	Lever, Shoe Release 12
22746	Spring 18	112626	Nut, 10-32 Hex 13	150029	Wick, Felt 12
35826	Washer, Flat 6	112627	Nut, 2-56 Hex 11	150043	Shoe, Secondary Clutch 12
41382	Spring 8,23	112630	Spring 2	150044	Shoe, Primary Clutch 12
41732	Plate, Clamp 5,7,8,15	114876	Washer, Flat 18	150241	Spring 12
42823	Washer, Flat 12	115122	Washer, Felt 13,15,23	150507	Spring 4,18
42827	Screw, 3-48 x 1/4 Fil 2	115141	Screw, 6-40 Shoulder 18	150780	Screw, 6-40 Spl 3
49420	Spring 5,7,8	117416	Post 13	150923	Washer, Felt 14,15
55669	Spring 3	117535	Washer, Flat 6,17	150966	Insulator, Terminal Block 2
70314	Washer, Flat 17	117608	Nut, Speed 10	150990	Washer, Felt 15
71073	Washer, Flat 11,15,23	118143	Resistor, 1,800 Ohm 24	150991	Washer, Felt 7,8,13
73035	Spring 3	118144	Resistor, 2,700 Ohm 24	151003	Keylever 21
74014	Screw, 10-32 x 3/4 Hex 2	118154	Resistor, 47,000 Ohm 24	151004	Keylever 21
74709	Spring 19	118177	Resistor, 22,000 Ohm 24	151005	Keylever 21
74728	Terminal, Contact 5,23	118186	Resistor, 5,600 Ohm 24	151006	Keylever 21
74755	Washer, Felt 13	119648	Ring, Retaining 3,4,14	151036	Screw, 4-40 Shoulder 15
74805	Screw, 10-32 x 3/4 Hex 13	119649	Ring, Retaining 4,15,23	151080	Washer, Flat 11
76081	Washer, Flat 7,8,18	119651	Ring, Retaining 2,3,10,14,15	151103	Spring 4
76099	Washer, Flat 13	119652	Ring, Retaining 13,18	151113	Strip, Mounting 2
77039	Bushing, Insulating 5,7,8	119653	Ring, Retaining 3,5,18	151118	Plate, Spacing 2
80402	Screw, 4-40 x 15/32 Fil 17	119654	Ring, Retaining 7,8	151146	Strap, Mounting 2
80478	Post, Spring 8	119655	Ring, Retaining 17	151152	Screw, 4-40 x 3/16 Hex 4,7,8,11, 13,16,18
80581	Spring 4,14	119662	Screw, 6-40 Spl 18	115153	Bearing, Sleeve 12
81726	Terminal 7,8	120489	Spacer, .052" Thk 14	151182	Washer, Insulating 16
81731	Spring 2,3,7	120824	Washer, Felt 12	151223	Screw, 4-40 Shoulder 10
82249	Washer, Flat 8	120870	Wick, Felt 14	151224	Screw, 6-40 Pilot 10
82547	Insulator, .094" Thk 5,7,8,15, 23	121100	Spring 8	151233	Spacer, .065" Thk 3
82548	Insulator, .062" Thk 5,7,8,15, 23	121242	Clamp, 1/8 ID Cable 20	151249	Keypop 21
82860	Spring 3	121243	Clamp, 3/16 ID Cable 20	151250	Keypop 21
82999	Spring 8	121244	Clamp, 1/4 ID Cable 20	151254	Keypop 21
83877	Spring 8	121245	Clamp, 5/16 ID Cable 20	151329	Switch, Sensitive 20
85976	Washer, Flat 11	121246	Clamp, 3/8 ID Cable 20	151335	Stud 2
		121247	Clamp, 7/16 ID Cable 20	151354	Screw, 2-56 x 15/32 Fil 3
		121248	Clamp, 1/2 ID Cable 20	151415	Block, Terminal 2
		121249	Clamp, 5/8 ID Cable 20	151416	Nut, 6-40 Hex 2
		121250	Clamp, 3/4 ID Cable 20	151442	Screw, 6-40 x 1/2 Hex 6,13
		121251	Clamp, 1 ID Cable 20	151616	Screw, #2 Self-Tapping 2

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
151618	Screw, 6-40 x 7/16 Fil 10	154087	Plate, Nut 2	156630	Washer, Felt 14
151630	Screw, 6-40 x 1/4 Hex 2,3,6,7,8,10,17	154088	Plate, Nut 2	156632	Screw, 6-40 x 13/32 Hex 17
151631	Screw, 6-40 x 5/16 Hex 2,8,10,11,13,17,18	154089	Post, Spring 15	156644	Link, Drive 16
151632	Screw, 6-40 x 3/8 Hex 2,3,6,10,16,17,18,19	154091	Guide, Non-Repeat Lever 15	156740	Screw, 6-40 x 7/32 Hex 4,11
151637	Screw, 4-40 x 1/4 Fil 3,8,18	154092	Shaft 5	158021	Bracket, Switch 18
151659	Screw, 6-40 x 1/2 Fil 10	154094	Clamp 13	158031	Bail, Feed 18
151678	Screw, 1/4-32 Pilot 2	154095	Eccentric, Contact Box 16	158032	Bail, Reset 18
151685	Screw, 4-40 x 5/16 Fil 18	154096	Bushing, Eccentric 13	158033	Spacer, .055" Thk 18
151687	Screw, 4-40 x 7/16 Fil 5	154097	Bail 3	158036	Lever, Reset 18
151688	Screw, 4-40 x 5/8 Fil 7,8	154101	Plate, Rear 13	158038	Lever 18
151692	Screw, 6-40 x 3/16 Fil 2,3	154105	Post, Transfer Bail 14	158040	Lever, Ratchet Drive 18
151694	Screw, 6-40 x 11/32 Fil 17	154107	Bracket 3	158042	Lever, Latch 18
151722	Screw, 6-40 x 3/16 Hex 2,3,4,5,7,8,14,19	154109	Plunger 2	158050	Switch, Contact 18
151723	Screw, 10-32 x 3/8 Hex 2,6	154115	Plate, Guide 2	158052	Cam, Switch 18
151724	Screw, 10-32 x 5/8 Hex 6,17	154120	Lever, Code Bar 7,8	158079	Shaft, Motor Coupler 17
151728	Spring 12	154125	Spring 7,8	158147	Bushing, Eccentric 18
151737	Screw, 4-40 x 11/64 Hex 12	154127	Nut, 6-40 Hex 15	158164	Lever w/Hub 3
151843	Screw, 6-40 Adjusting 11	154130	Box, Contact 16	158213	Plate, Nut 2
152045	Guard, Gear 2	154131	Cover, Contact 16	158215	Plate, Nut 2,18,19
152441	Washer, Flat 4	154133	Bracket 3	158216	Plate, Nut 2
152839	Spring, Latch 18	154138	Washer, Felt 12	158217	Plate, Nut 2
152893	Screw, 4-40 x 1/4 Hex 11,18	154156	Grommet, Rubber 20	158231	Contact Assembly 5
153247	Lever, Trip 3	154166	Suppressor, Arc 16	158268	Latch w/Hub 15
153248	Bushing, 6-40 Shoulder 3	154173	Plate 20	158271	Guard, Gear 17
153250	Link 3	154178	Spring 14	158275	Plate, Clamp 5
153266	Lever, Trip 3	154189	Insulator 16	158277	Screw, 3-48 x 1 Rd 5
153273	Link 3	154191	Spring 8,15	158745	Clamp, Bearing 6,17
153280	Keytop 21	154199	Shim, .005" Thk 2	158816	Spring, Contact 5,7,8
153537	Screw, 6-40 x 9/32 Hex 2,4	154201	Shim, .014" Thk 2	158828	Bushing, Mounting 6
153538	Screw, 6-40 x 7/16 Hex 18	154215	Spring 15	159284	Pinion, 20T 6
153539	Screw, 6-40 x 11/16 Hex 19	154217	Wick, Leather 14	159285	Gear, 84T 6
153631	Network, Spark Suppression 23	154227	Bracket, Support 5	159287	Retainer, Pinion 6
153817	Screw, 4-40 x 3/8 Hex 11,16	154236	Lever, Latch 13	159327	Washer, Flat 15
153819	Washer, Lock 2	154238	Extension 11	159334	Washer, Insulating 8,15
153841	Screw, 6-40 x 9/16 Hex 10,13	154239	Extension w/Post 11	159341	Bearing, Ball 6,17
154008	Guide, Code Bar 7	154240	Bail, Code Bar 15	159597	Washer, Flat 4
154009	Plate, Front 14	154241	Stud 15	160090	Lever, Transfer 14
154010	Bail, Transfer 14	154386	Plate, Adjusting 15	160583	Spring, Contact 5
154013	Bracket, Spring 7,8	154694	Disk, Clutch Cam 12	160593	Terminal 15
154015	Post 15	154697	Grommet, Rubber 20	161295	Gear Set, 100 WPM 6
154019	Follower, Eccentric 12	155046	Screw, 4-40 x 15/32 Hex 23	161301	Post 6
154021	Link 10	155750	Sleeve, 3/32 ID x 1/2" Lg	161346	Washer, Felt 14
154027	Bellcrank 15	155751	Insulating 20	161882	Plate w/Bracket 17
154029	Wick, Felt 12	155752	Sleeve, 1/8 ID x 1" Lg	162333	Stud, Locating 5
154030	Shaft, Signal Generator 12	155753	Insulating 20	162803	Post, Drive Link 4
154032	Sleeve, Gear 12	155754	Sleeve, 5/64 ID x 1/2" Lg	162883	Cover, Insulating 5
154033	Lever, Clutch Latch 13	155755	Insulating 20	163440	Gear, 48T 6
154034	Lever, Clutch Stop 13	155954	Sleeve, 1/8 ID x 1/2" Lg	170172	Bracket 2
154036	Plate, Detent 14	155960	Insulating 20	170173	Lever w/Hub 5
154046	Stud 13	155964	Sleeve, 1/16 ID x 1/2" Lg	170324	Bracket, Front 7
154047	Post, Spring 14	155967	Insulating 20	170332	Bail Assembly, Universal 1,11
154051	Screw, 6-40 Shoulder 15	155968	Sleeve, 11/64 ID x 5/8" Lg	170358	Bracket 2
154053	Bail, Clutch Trip 13	155990	Insulating 20,23	170361	Bar, Clutch Trip 7,8,9
154056	Bracket, Contact Box 16	156226	Switch, Sensitive 3,19,20	170363	Bracket, Left 7,8
154064	Bracket, Adjusting 3	156451	Latch 18	170364	Bracket, Right 7,8
154065	Lever w/Hub 3	156503	Lever, Stop 18	170365	Guide, Code Lever 7,8
154071	Screw, 1/4-32 Pilot 7,8	156509	Ratchet, 88T 18	170368	Shaft 7,8
154072	Bracket, Stop 8	156516	Washer, Spring 18	170369	Bracket, Support 7
154076	Plate, Nut 2	156574	Washer, Flat 18	170370	Lever, Function 7,8
154079	Stud 15		Counter Assembly, Character 1,18	170371	Lever, Function 7,8
154080	Lock, Wedge 11		Insulator, .015" Thk 3	170372	Bail, Universal 11
154083	Spacer, Cam 12		Hub 17	170373	Blade, Rear 11
154084	Bearing, Needle 15		Bushing 19	170374	Blade, Front 11
			Wick, Felt 12	170375	Lever, Auxiliary 7,8
			Washer, Flat 14	170379	Retainer, Bail 11
			Latch 14	170380	Retainer, Wedge 11
			Post, Spring 11	170385	Frame w/Bushing 13

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
170386	Guide, Transfer Lever 14	180181	Keytop 21	183890	Keytop 21
170388	Post, Guide 14	180182	Keytop 21	183891	Keytop 21
170390	Bail, Locking 14	180183	Keytop 21	183892	Keytop 21
170391	Guide, Transfer Lever 14	180184	Keytop 21	184863	Keytop 21
170392	Lever, Non-Repeat 15	180185	Keytop 21	184864	Keytop 21
170395	Bracket, Function Bail 5	180186	Keytop 21	185132	Keytop 21
170396	Bail, L.B.S. 3,5	180187	Keytop 21	185165	
170397	Bail, L.C.R. 5	180188	Keytop 21		thru
170398	Lever, L.L.F. 5	180189	Keytop 21	185171	Keytops 21
170399	Lever 3,5	180190	Keytop 21	185174	Keytop 21
170406	Bracket, Left Space Bar 10	180191	Keytop 21	185175	Keytop 21
170407	Bracket, Right Space Bar 10	180192	Keytop 21	185261	
170409	Bail, Space Bar 10	180193	Keytop 21		thru
170410	Plate, Nut 2	180194	Keytop 21	185269	Keytops 22
170412	Bracket, Switch Mounting 5	180195	Keytop 21	185270	Keytop 21,22
170413	Contact Assembly 5	180196	Keytop 21	185271	Keytop 21,22
170414	Lever, Function 7,8	180197	Keytop 21	185272	Keytop 22
170418	Bracket 3	180198	Keytop 21	185273	Keytop 21,22
171688	Bushing, .256" Thk 23	180199	Keytop 21	185274	Keytop 22
171952	Connector, Green Shielding 20	180200	Keytop 21	185275	
171972	Connector, Green Insulated 20	180201	Keytop 21		thru
173098	Stud, Eccentric 15	180202	Keytop 21	185283	Keytops 22
173508	Gear, 66T 17	180203	Keytop 21	185285	
173715	Terminal, Plug Type 19,20	180205	Keytop 21		thru
173716	Terminal, Receptacle Type 19	180250	Keytop 21	185308	Keytops 22
176339	Post, Stop 15	180257	Keytop 21	192007	Terminal, Tab Type 19
176352	Box Assembly, Contact 1,16	180259	Keytop 21	192013	Connector, 50 Pt Plug Type 20
176354	Sleeve 14	180260	Keytop 21	192176	Terminal, Plug Type 20
176663	Link 2	180261	Keytop 21	192224	Panel, Tape Container 19
176700	Base 2,3	180263	Keytop 21	192299	Keytop 21
177108	Diode 24	180273	Keytop 21	192318	Jumper, 2-3/4" Black 20
178142	Camsleeve 12	180274	Keytop 21	192485	Contact Assembly 15
178144	Contact Assembly 7,8	180278	Keytop 21	192497	Bracket 2
178145	Bracket, Switch 7,8	180282	Keytop 21	192510	Keytop 21
178146	Guard 7,8	180320	Keytop 21	192511	Bar, Space 10
178147	Spring, Contact 7,8	180321	Keytop 21	192521	Bar, #1 Code 7,9
178725	Spring 18	180323	Keytop 21	192522	Bar, #2 Code 7
178844	Varistor 24	180324	Keytop 21	192523	Bar, #3 Code 7,8,9
178849	Cord Assembly, Indicator 18	180326	Keytop 21	192524	Bar, #4 Code 7,8,9
178851	Pulley 18	180327	Keytop 21	192525	Bar, #5 Code 7,8,9
179258	Bracket, Scale 18	180328	Keytop 21	192526	Bar, #6 Code 7,8,9
179278	Drum, Ratchet 18	180331	Keytop 21	192527	Bar, #7 Code 7,8,9
179279	Bracket w/Posts 18	180332	Keytop 21	192529	Bar, Shift Code 7
179639	Contact Assembly 16	180333	Keytop 21	192530	Bar, Shift Lock 7
179643	Network, Filter 16	180334	Keytop 21	192531	Lever, Transfer 14
179748	Connector, 5 Pt Plug 20	180335	Keytop 21	192533	Plate, Rear 15,23
180160	Keytop 21	180336	Keytop 21	192534	Post, Locking Bail 14
180161	Keytop 21	180382	Keytop 21	192535	Bail w/Post 7
180162	Keytop 21	180383	Keytop 21	192537	Plate, Adjustment 7
180163	Keytop 21	180384	Keytop 21	192538	Plug, Button 10
180164	Keytop 21	180385	Keytop 21	192550	Bar Assembly, Ball Lock 11
180165	Keytop 21	180422	Keytop 21	192552	Channel, Ball 11
180166	Keytop 21	180423	Keytop 21	192553	Bracket, Left Mounting 10
180167	Keytop 21	180425	Keytop 21	192554	Bracket, Right Mounting 10,11
180168	Keytop 21	180426	Keytop 21	192555	Plate, Keytop Guide 10,11
180169	Keytop 21	180428	Keytop 21	192556	Frame 10
180170	Keytop 21	180429	Keytop 21	192557	Grommet, Rubber 10
180171	Keytop 21	180430	Keytop 21	192558	Bar, C.R. Code 7,8
180172	Keytop 21	180431	Keytop 21	192559	Bar, Counter Code 7,8,9
180173	Keytop 21	180432	Keytop 21	192579	Bushing, Shoulder 7,8
180174	Keytop 21	180433	Keytop 21	192588	Bracket 9
180175	Keytop 21	180434	Keytop 21	192589	Post, Stop 15
180176	Keytop 21	180435	Keytop 21	192595	Post, Eccentric 15
180177	Keytop 21	180675	Screw, #6 Self-Tapping 3	192596	Follower, Cam 15
180178	Keytop 21	180904	Tab, Terminal 3	192597	Bracket 15
180179	Keytop 21	183888	Keytop 21	192604	Stud 15
180180	Keytop 21	183889	Keytop 21	192629	Shaft 17
				192630	Bracket 2

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
192649	Past, Spring 15	198270	Bracket 3	311531	Bar, Code 9
192681	Screw, 4-40 Spl 11	198271	Lever 3	311533	Bar, Code 9
193134	Transistor 24	198272	Solenoid 3	311741	Bracket 10
193565	Coupling, Flexible 17	198297	Guide, Code Bar 4	312994	Modification Kit 11
194048	Screw, 4-40 Spl 16	198439	Cable Assembly 19	312995	Bar, Retainer 11
194901	Screw, 4-40 Spl 16	198458	Switch Assembly, Low Tape 19	315860	Gear, 11T 6
194982	Clip, Connector 20	198460	Arm, Tape 19	315861	Pinion, 19T 6
195050	Bracket 7,8	198461	Plate, Mounting 19	315865	Gear Set, 100 WPM 6
195051	Plate 15	198501	Spring, Lock 2	315930	Transistor 24
195052	Plate, Nut 15	198530	Plate, Spring 8	315932	Transistor 24
195053	Cover, Insulating 15	198531	Plate Blocking 8	319394	Screw, 10-24 Set 17
195186	Screw, 4-40 x 7/8 Hex 16	198533	Plate, Blocking 8	320410	Terminal, Spade Type 20
195187	Screw, 4-40 x 1-1/2 Hex 16	198534	Arm w/Roller 8	320416	Terminal, Ring Type 20
195432	Spring, Contact 15	198535	Post 8	320418	Terminal, Ring Type 20
195433	Spring, Contact 15	198536	Bar, Shift Lock 9	320471	Bar, Code 9
195651	Box, Contact 16	198537	Bar, Control Lock 8,9	320472	Bar, Code 9
195652	Cover, Contact Box 16	198538	Bar, #51 Code 8,9	320473	Bar, Code 9
195716	Plate, Identification 2	198539	Bail, Blocking 8	320474	Bar, Code 9
195717	Plate, Identification 2	198540	Bail, Blocking 8	320475	Bar, Code 9
197005	Lever, Function 8	198541	Screw, 6-40 Shoulder 8	320476	Bar, Code 9
197013	Lever, Transfer 14	198542	Bor, #81 Code 8,9	320477	Bar, Code 9
197015	Bracket, Mounting 5	198543	Bar, #8 Code 8,9	320478	Bar, Code 9
197016	Insulator, .020" Thk 2	198544	Guide, Left Code Bar 8	320479	Bar, Code 9
197017	Latch, Lock 8	198545	Guide, Right Code Bar 8	320480	Bar, Shift Lock 9
197018	Lever, Keyboard Lock 5	198547	Bar, #1A Code 8,9	321727	Guide 11
197019	Box Assembly, Contact 1,16	198548	Bar, #2A Code 8,9	321918	Gasket 23
197040	Keypop 21	199070	Box Assembly, Contact 1,16	321919	Cover 23
197464	Diode 24	199193	Bushing, Insulating 16	321920	Spring, Contact 23
198219	Plate, Front 4	199196	Link 16	321921	Spring, Contact 23
198220	Plate, Rear 4	199329	Arm, Tape 19	321922	Plunger 23
198221	Plate, Mounting 4	199330	Modification Kit 1,19	323606	Diode 24
198222	Bail, Reset 4	199332	Switch Assembly, Low Tape 19	323607	Diode 24
198223	Latch 4	199333	Cable Assembly 19	323608	Card, Circuit 24
198224	Bracket 2	199334	Cable s/Terminals 19	323609	Card, EC609 Circuit 23
198225	Shaft, Drive 4	300102	Diode 24	323798	Keypop 21
198226	Lever 4	300384	Capacitor, .0047 MFD 24	324009	Bracket 23
198227	Post, Guide 4	300385	Diode 24	324010	Contact Assembly 23
198228	Lever, Intermediate 4	305064	Keypop 21	324011	Follower, Cam 23
198229	Follower, Eccentric 12	308429	Bar, #3A Code 9	324012	Stud 23
198230	Post, Lower Spring 4	308430	Bar, #6A Code 9	324013	Past 23
198231	Post, Upper Spring 4	308431	Bar, #7A Code 9	324129	Spring 8
198232	Link 4,12	309507	Contact 11	324488	Camsleeve 12
198235	Camsleeve 12	309508	Bracket, Left 11	324532	Screw, 4-40 x 3/16 Hex 8
198236	Post 15,23	309509	Bracket, Right 11	324580	Bar, Code 9
198237	Follower, Cam 15	311201		324584	Modification Kit 1,23
198238	Plate, Nut 2	thru		327450	Label 16
198240	Contact Asm, Code Reading 1,4	311206	Bar, Code 9	329089	Spring 8
198241	Keypop 21	311208	Bar, Code 9	330714	Insulator 11
198243	Contact Assembly 4	311209	Bar, Code 9	330963	Keylever 21
198263	Bracket 3	311211	Bar, Shift Lock 9	330964	Keylever 21
198267	Pin 3	311285	Screw, 6-40 Shoulder 8	330965	Keylever 21
198269	Solenoid Assembly 3	311488	Gear Set, 67 WPM 6	330966	Keylever 21
		311490	Pinion, 20T 6		
		311491	Gear, 126T 6		



35 TRANSMITTER DISTRIBUTOR BASE (LCXB)

PARTS

FIGURE	CONTENTS	PAGE
1	Base Components for 1800 RPM Motor	2
2	Base Components for 3600 RPM Motor	3
3	Base Components with Extension Plate for 1800 RPM Motor	4
4	Motor and Mounting Parts (for the 192120 Motor)	5
5	Motor and Mounting Parts (for the 195801 Motor)	6
6	197828 Shaft Assembly	7
7	197816, 197820, 197831 and 199491 Shaft Assemblies	8
8	Motor and Mounting Ports (for the 321000 Motor)	9
9	183991 Series Motor	10
10	192002 and 324483 Answer Back Assemblies	11
11	Coding Instructions for the Answer Back Drum	12
12	Cabinet Mounted Components	13
	Numerical Index	14

PAINT FINISH COLOR CODE CHART

(for parts and assemblies requiring a paint finish)

Color	Finish Suffixes				Color	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl		Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Beige		ET			Gray, Federal		BV	GG	
Beige, Light		EL		HC	Gray, Green	AB	BK	GA	
Beige, Rose		ER			Gray, Light		EJ		HB
Black	AA				Gray, Covert				HE
Black, High Gloss		BA			Gray, Olive		EW	GE	HF
Black, Semi Gloss		BB			Gray, Maritime				
Blue, Aqua		EK			Deck	AJ	BJ		
Blue, Brussels Light		EC			Gray, Oxford		EP		
Blue, Medium		ES			Green, Gray	AB	BK	GA	
Brown, Dark	AD				Green, Moss		EN		HD
Brown, Light	AC				Ivory		EM		
Fawn				HG	Pink, Rose		EU		
Gray, Beige			GC		Turquoise		EV		
Gray, Charcoal	AL	BZ	GF	HA	White		EH		
Gray, Dark			GB		Yellow, Pastel		EG		

The double asterisk (\*\*) denotes a painted part. Suffix to be applied following the part number.

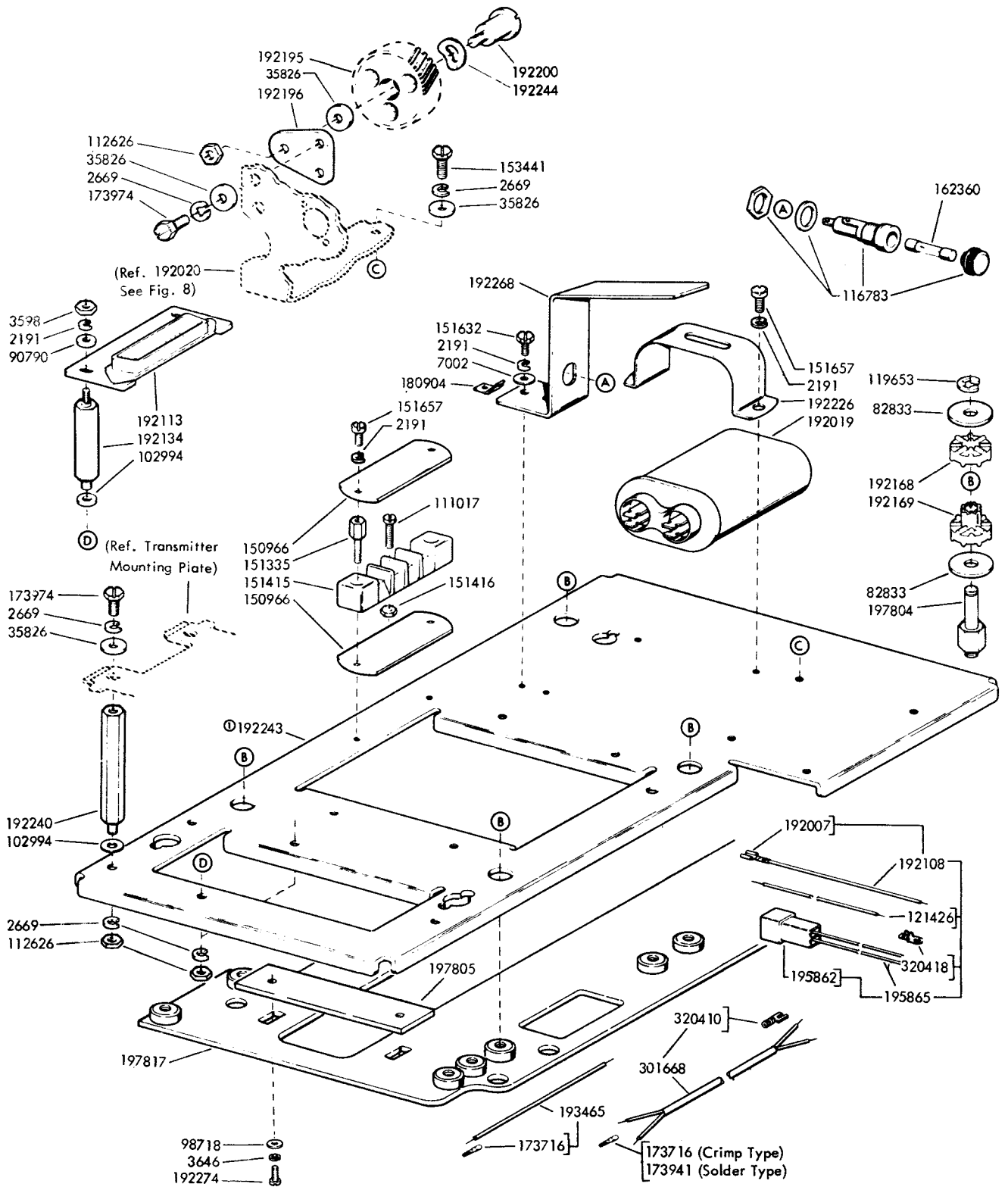


FIGURE 1. BASE COMPONENTS FOR 1800 RPM MOTOR

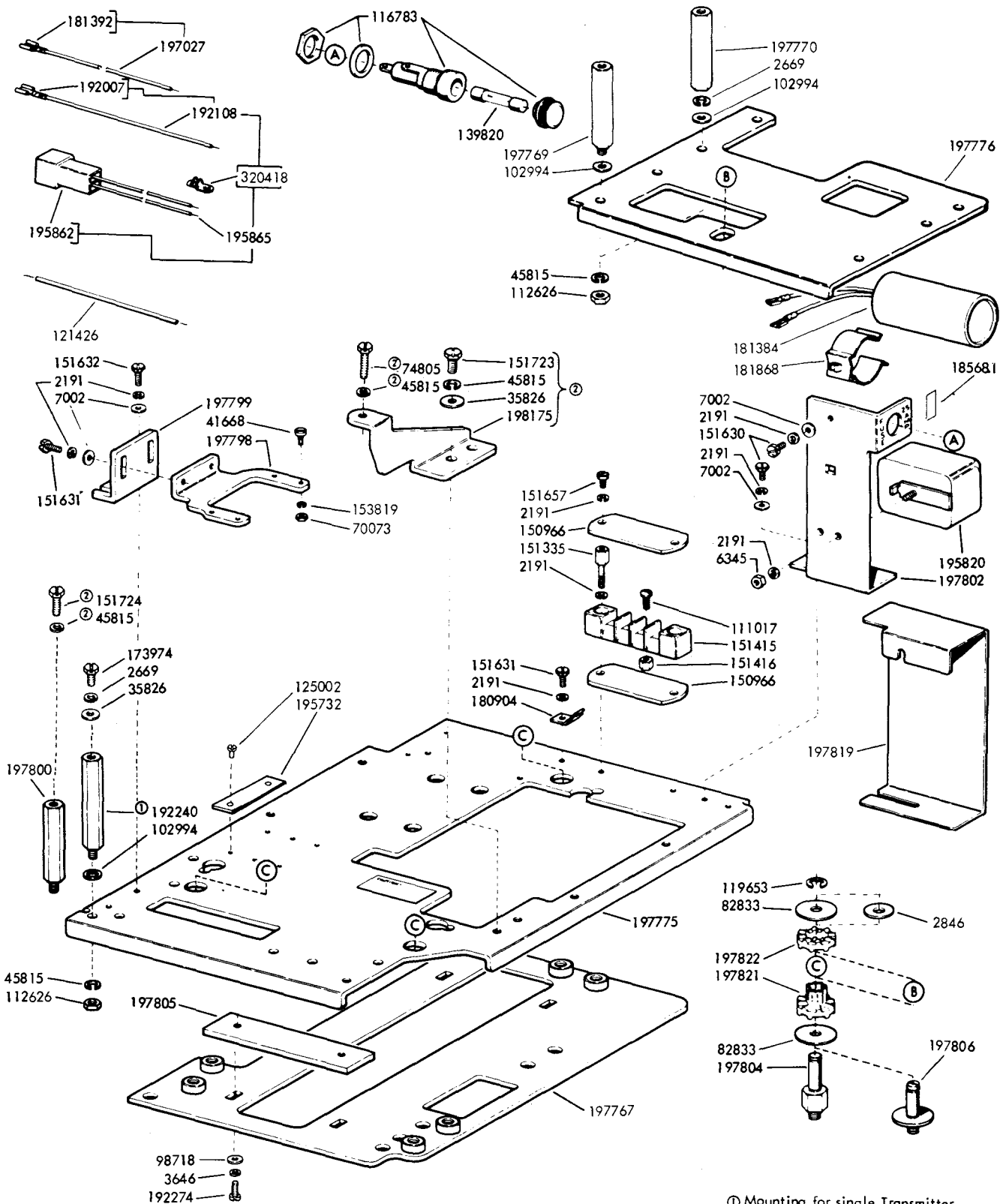


FIGURE 2. BASE COMPONENTS FOR 3600 RPM MOTOR

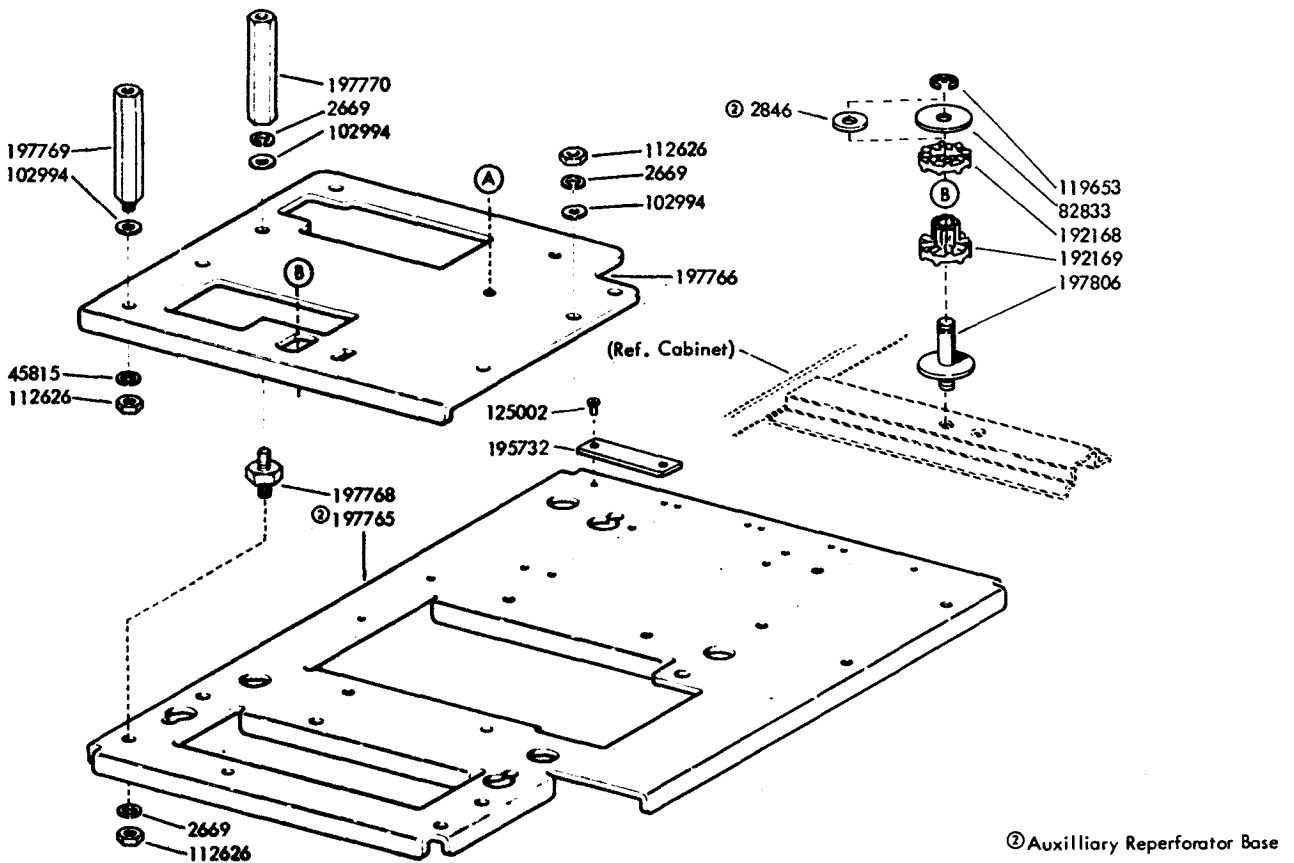
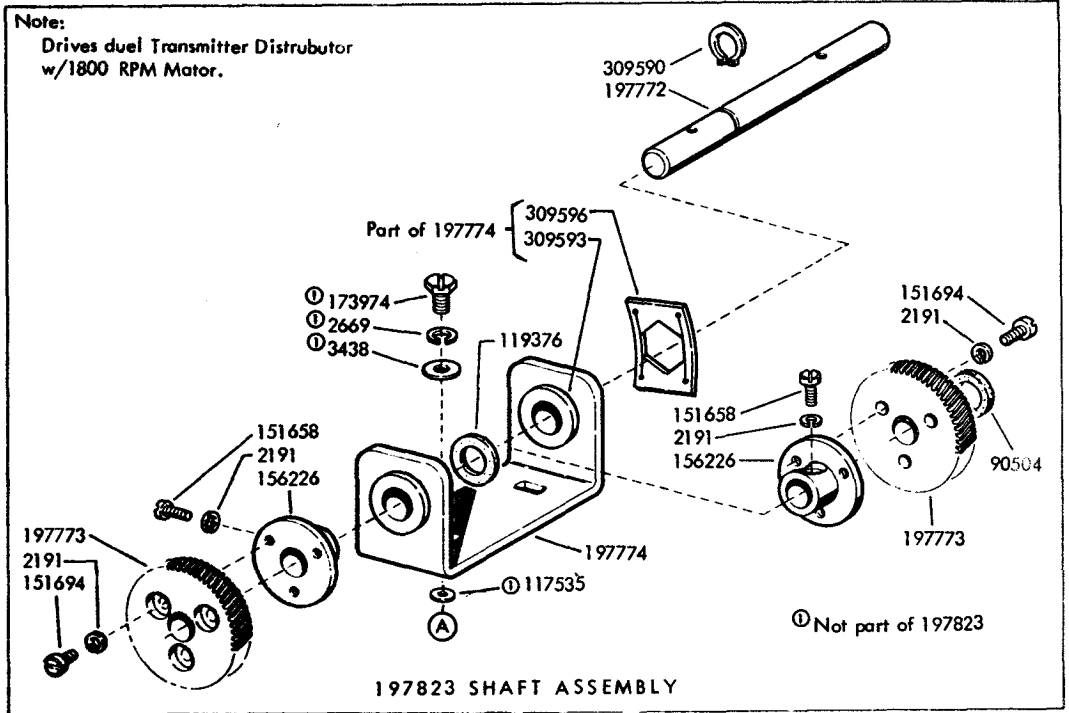
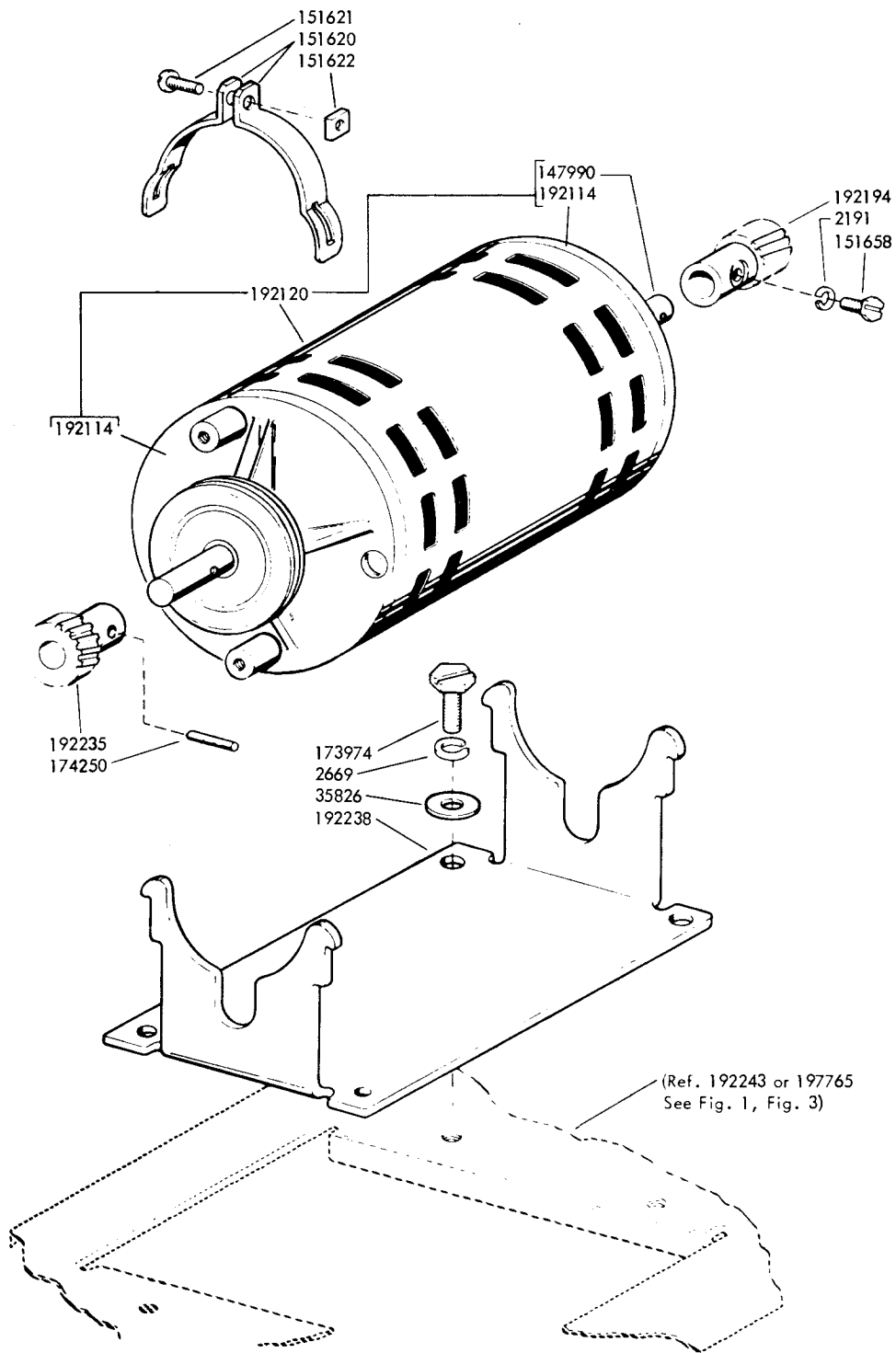


FIGURE 3. BASE COMPONENTS WITH EXTENSION PLATE FOR 1800 RPM MOTOR



Note:  
 192120 Motor 1/100HP, 1800 RPM,  
 115V, 60 Hertz, AC Synchronous

FIGURE 4. MOTOR AND MOUNTING PARTS (for the 192120 MOTOR)

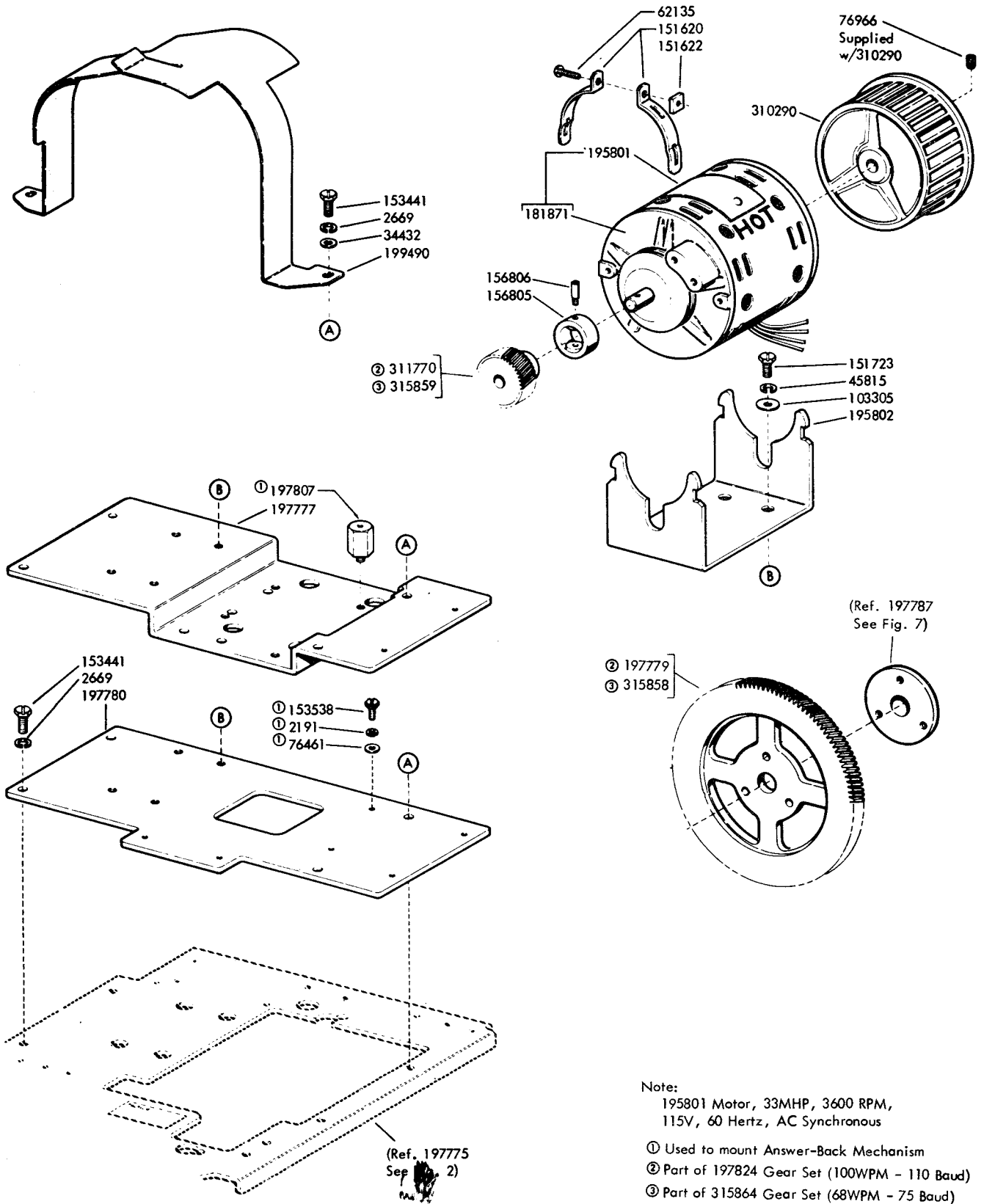
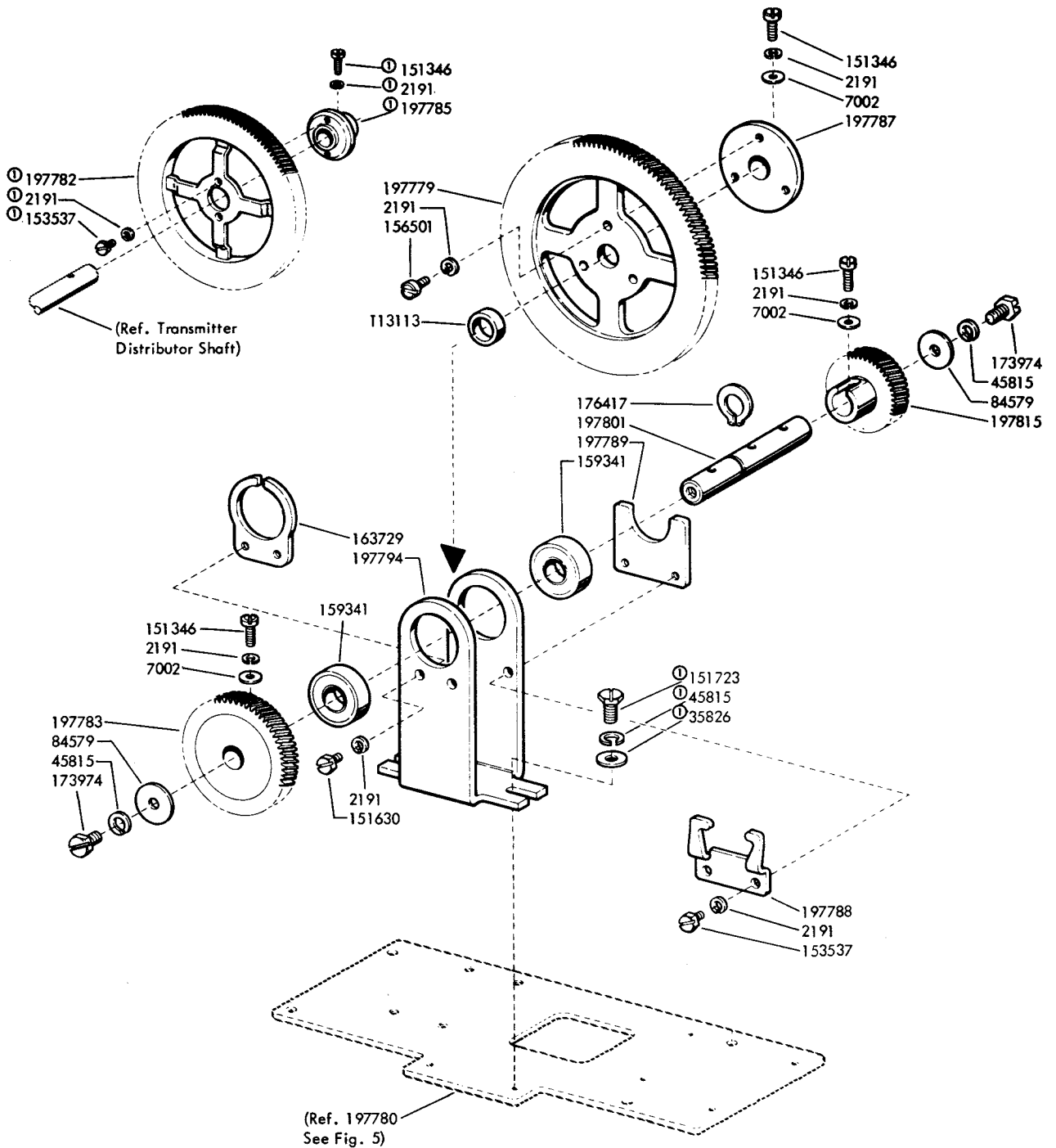


FIGURE 5. MOTOR AND MOUNTING PARTS (for the 195801 MOTOR)



Note:  
 Drives a Two Shaft Transmitter  
 Distributor at 3600 RPM  
 Ⓞ Not part of 197828

FIGURE 6. 197828 SHAFT ASSEMBLY

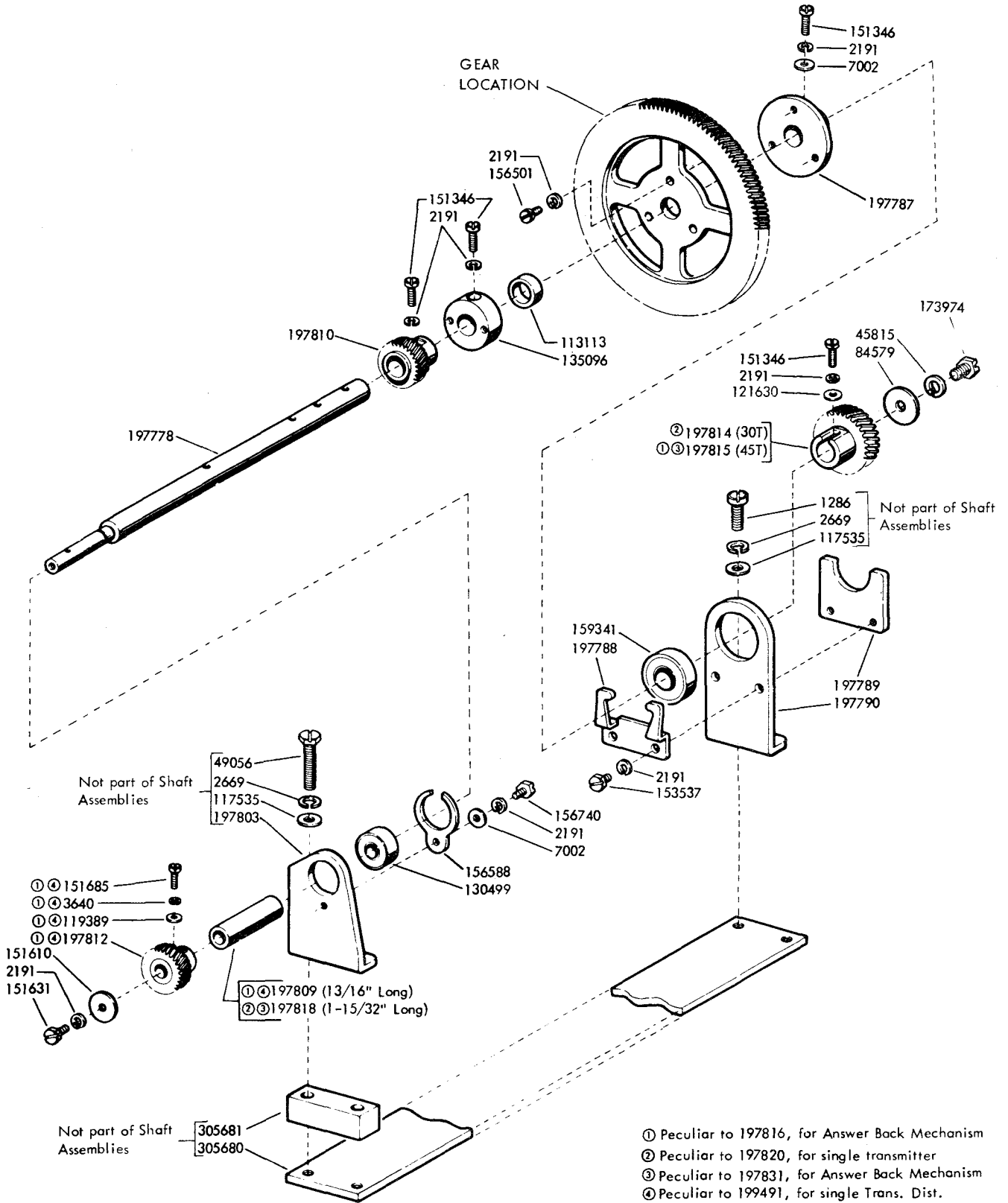


FIGURE 7. 197816, 197820, 197831 AND 199491 SHAFT ASSEMBLIES



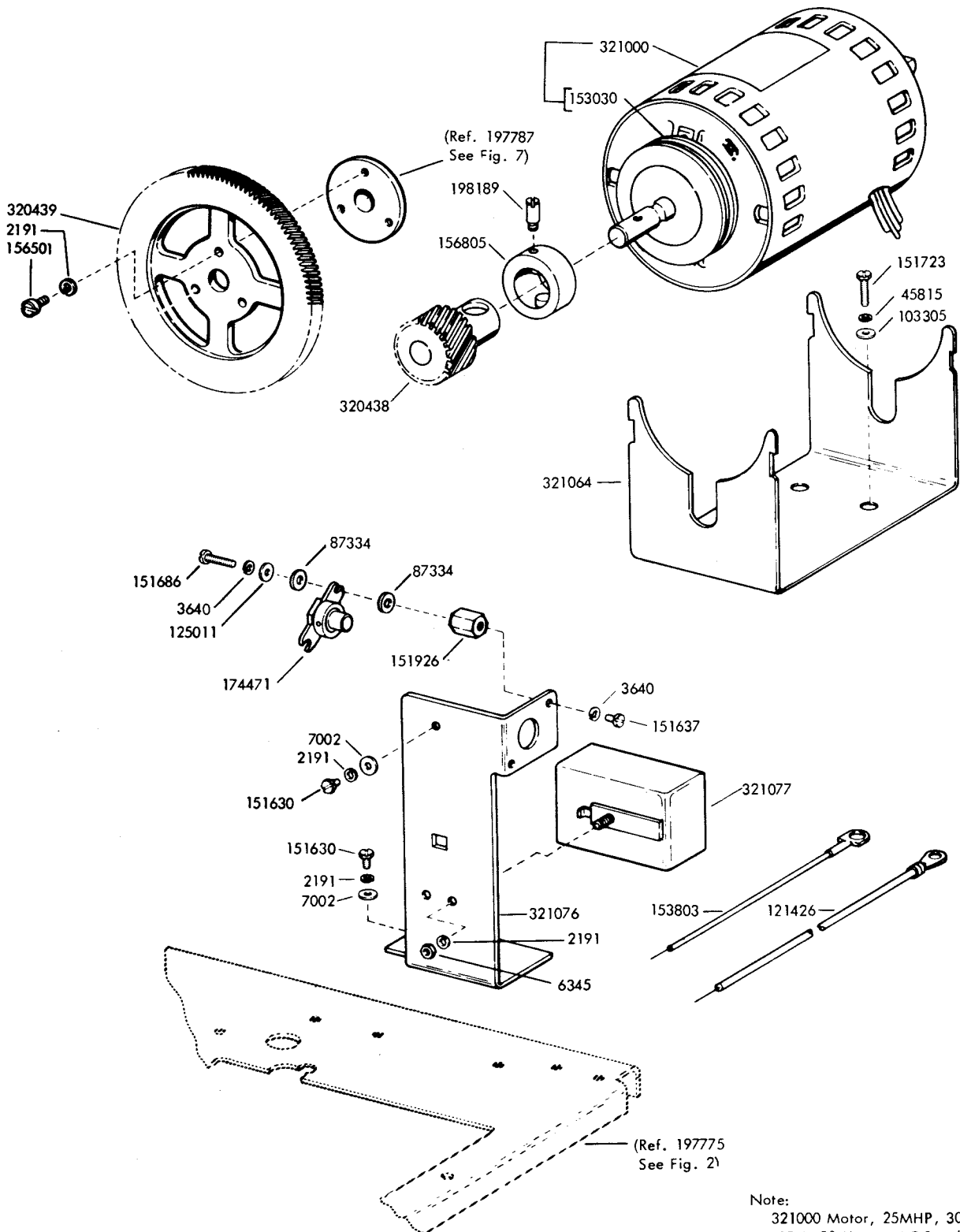
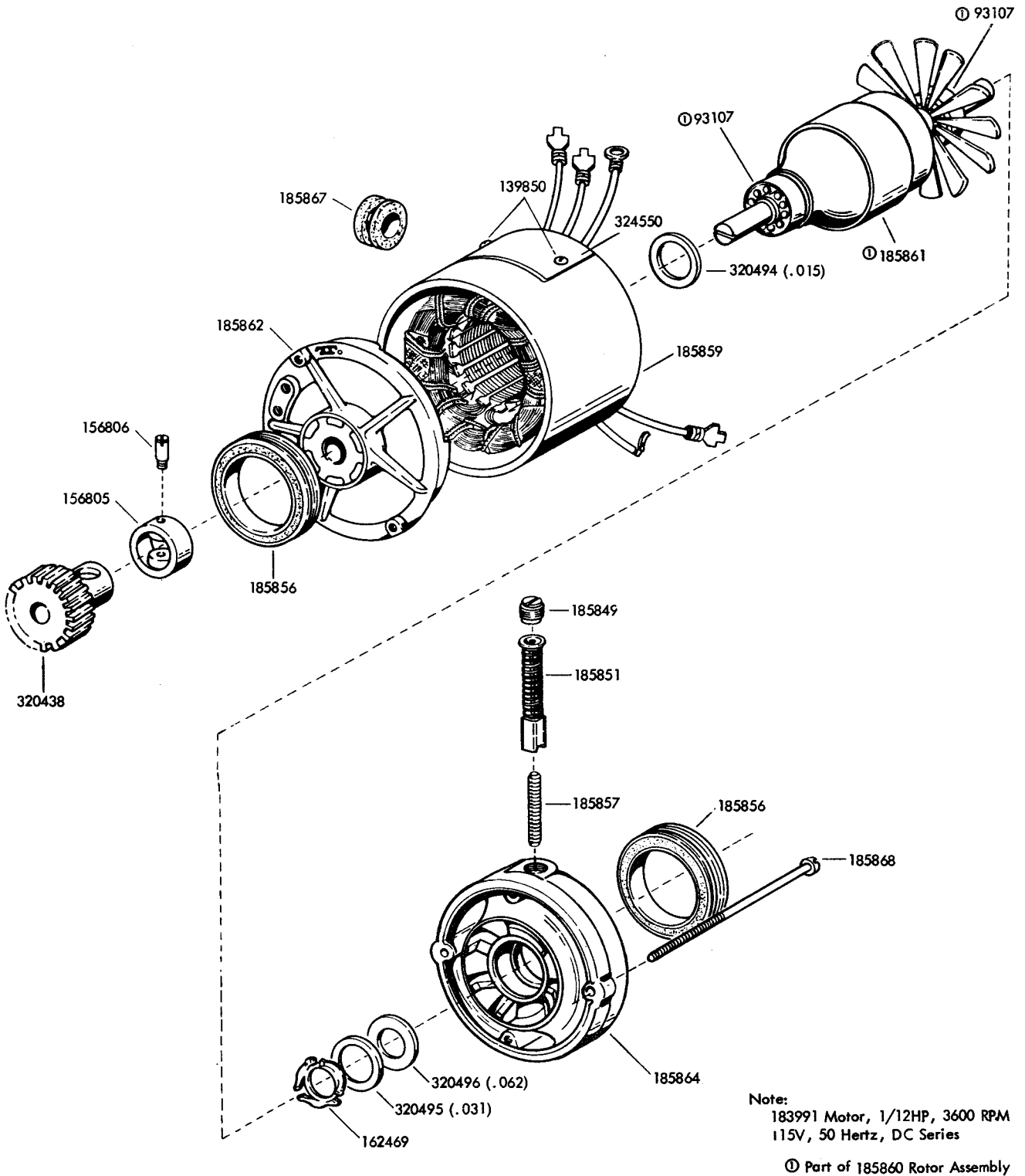


FIGURE 8. MOTOR AND MOUNTING PARTS (for the 321000 MOTOR)



Note:  
 183991 Motor, 1/12HP, 3600 RPM  
 115V, 50 Hertz, DC Series  
 Ⓞ Part of 185860 Rotor Assembly

FIGURE 9. 183991 SERIES MOTOR

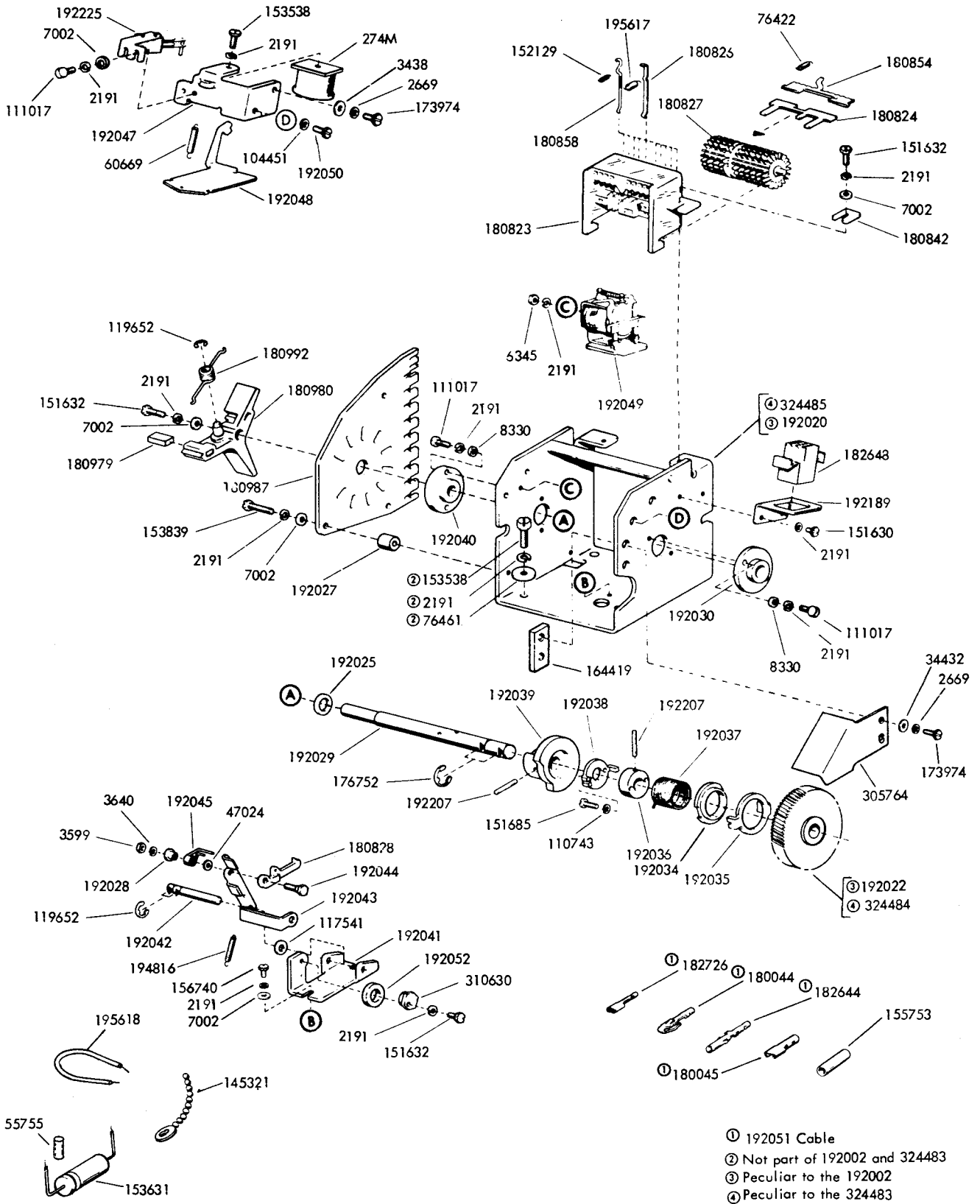
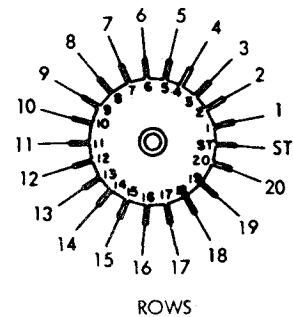
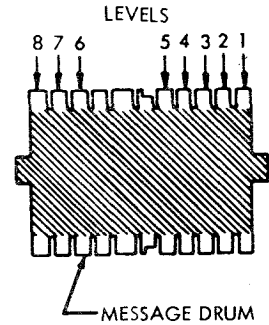


FIGURE 10. 192002 AND 324483 ANSWR BACK ASSEMBLIES

	CODE LEVELS									CODE LEVELS							
	8	7	6	5	4	3	2	1		8	7	6	5	4	3	2	1
NULL	■	■	■	■	■	■	■	■	2	□	□	□	□	□	□	□	
SOM	□	■	■	■	■	■	■	■	3	□	□	□	□	□	□	□	
STX	□	■	■	■	■	■	■	■	4	□	□	□	□	□	□	□	
EXT	■	■	■	■	■	■	■	■	5	■	■	■	■	■	■	■	
EOT	□	■	■	■	■	■	■	■	6	□	□	□	□	□	□	□	
WRU	■	■	■	■	■	■	■	■	7	□	□	□	□	□	□	□	
ACK	■	■	■	■	■	■	■	■	8	□	□	□	□	□	□	□	
BELL	□	■	■	■	■	■	■	■	9	■	■	■	■	■	■	■	
FE <sub>0</sub>	□	■	■	■	■	■	■	■	:	□	□	□	□	□	□	□	
TAB	■	■	■	■	■	■	■	■	;	□	□	□	□	□	□	□	
LINE FEED	■	■	■	■	■	■	■	■	=	□	□	□	□	□	□	□	
VT	□	■	■	■	■	■	■	■	<	□	□	□	□	□	□	□	
FF	■	■	■	■	■	■	■	■	>	□	□	□	□	□	□	□	
RETURN	□	■	■	■	■	■	■	■	?	□	□	□	□	□	□	□	
SO	□	■	■	■	■	■	■	■	@	□	□	□	□	□	□	□	
SI	□	■	■	■	■	■	■	■	A	□	□	□	□	□	□	□	
DLE	□	■	■	■	■	■	■	■	B	■	■	■	■	■	■	■	
X-ON	□	■	■	■	■	■	■	■	C	□	□	□	□	□	□	□	
X-OFF	□	■	■	■	■	■	■	■	D	■	■	■	■	■	■	■	
RI OFF	□	■	■	■	■	■	■	■	E	□	□	□	□	□	□	□	
ERROR	□	■	■	■	■	■	■	■	F	□	□	□	□	□	□	□	
SYNCH	□	■	■	■	■	■	■	■	G	□	□	□	□	□	□	□	
EOB	■	■	■	■	■	■	■	■	H	□	□	□	□	□	□	□	
S <sub>0</sub>	■	■	■	■	■	■	■	■	I	□	□	□	□	□	□	□	
S <sub>1</sub>	□	■	■	■	■	■	■	■	J	□	□	□	□	□	□	□	
S <sub>2</sub>	□	■	■	■	■	■	■	■	K	□	□	□	□	□	□	□	
ESC(new)	■	■	■	■	■	■	■	■	L	□	□	□	□	□	□	□	
S <sub>3</sub>	□	■	■	■	■	■	■	■	M	■	■	■	■	■	■	■	
S <sub>4</sub>	■	■	■	■	■	■	■	■	N	□	□	□	□	□	□	□	
S <sub>5</sub>	■	■	■	■	■	■	■	■	O	□	□	□	□	□	□	□	
S <sub>6</sub>	□	■	■	■	■	■	■	■	P	□	□	□	□	□	□	□	
S <sub>7</sub>	□	■	■	■	■	■	■	■	Q	□	□	□	□	□	□	□	
SPACE	□	■	■	■	■	■	■	■	R	□	□	□	□	□	□	□	
!	■	■	■	■	■	■	■	■	S	□	□	□	□	□	□	□	
"	□	■	■	■	■	■	■	■	T	□	□	□	□	□	□	□	
#	□	■	■	■	■	■	■	■	U	■	■	■	■	■	■	■	
\$	■	■	■	■	■	■	■	■	V	□	□	□	□	□	□	□	
%	□	■	■	■	■	■	■	■	W	□	□	□	□	□	□	□	
&	□	■	■	■	■	■	■	■	X	□	□	□	□	□	□	□	
'	■	■	■	■	■	■	■	■	Y	■	■	■	■	■	■	■	
(	□	■	■	■	■	■	■	■	Z	□	□	□	□	□	□	□	
)	□	■	■	■	■	■	■	■	[	□	□	□	□	□	□	□	
*	□	■	■	■	■	■	■	■	\	■	■	■	■	■	■	■	
+	□	■	■	■	■	■	■	■	]	□	□	□	□	□	□	□	
,	□	■	■	■	■	■	■	■	^	□	□	□	□	□	□	□	
-	■	■	■	■	■	■	■	■	~	□	□	□	□	□	□	□	
.	■	■	■	■	■	■	■	■	ACK	□	□	□	□	□	□	□	
/	□	■	■	■	■	■	■	■		□	□	□	□	□	□	□	
0	□	■	■	■	■	■	■	■	ESC (old)	■	■	■	■	■	■	■	
1	□	■	■	■	■	■	■	■	RUB OUT	□	□	□	□	□	□	□	
1 CYCLE OPER. ROW 6										■	■	■	■	■	■	■	
1 CYCLE OPER. ROW 1										■	■	■	■	■	■	■	
2 CYCLE OPER. ROWS 6 & 17										■	■	■	■	■	■	■	
2 CYCLE OPER. ROWS 1 & 12										■	■	■	■	■	■	■	
3 CYCLE OPER. ROWS 6,13,20										■	■	■	■	■	■	■	
3 CYCLE OPER. ROWS 1,8,15										■	■	■	■	■	■	■	

CHARACTER SUPPRESSION  
STOP CAM  
FEED RATCHET



- LEAVE TINE
- REMOVE TINE

Note:  
8TH - Code level! must be coded as shown for even parity operation.  
Other wise 8TH - code level tine may be removed for all characters.

FIGURE 11. CODING INSTRUCTIONS FOR THE ANSWER BACK DRUM

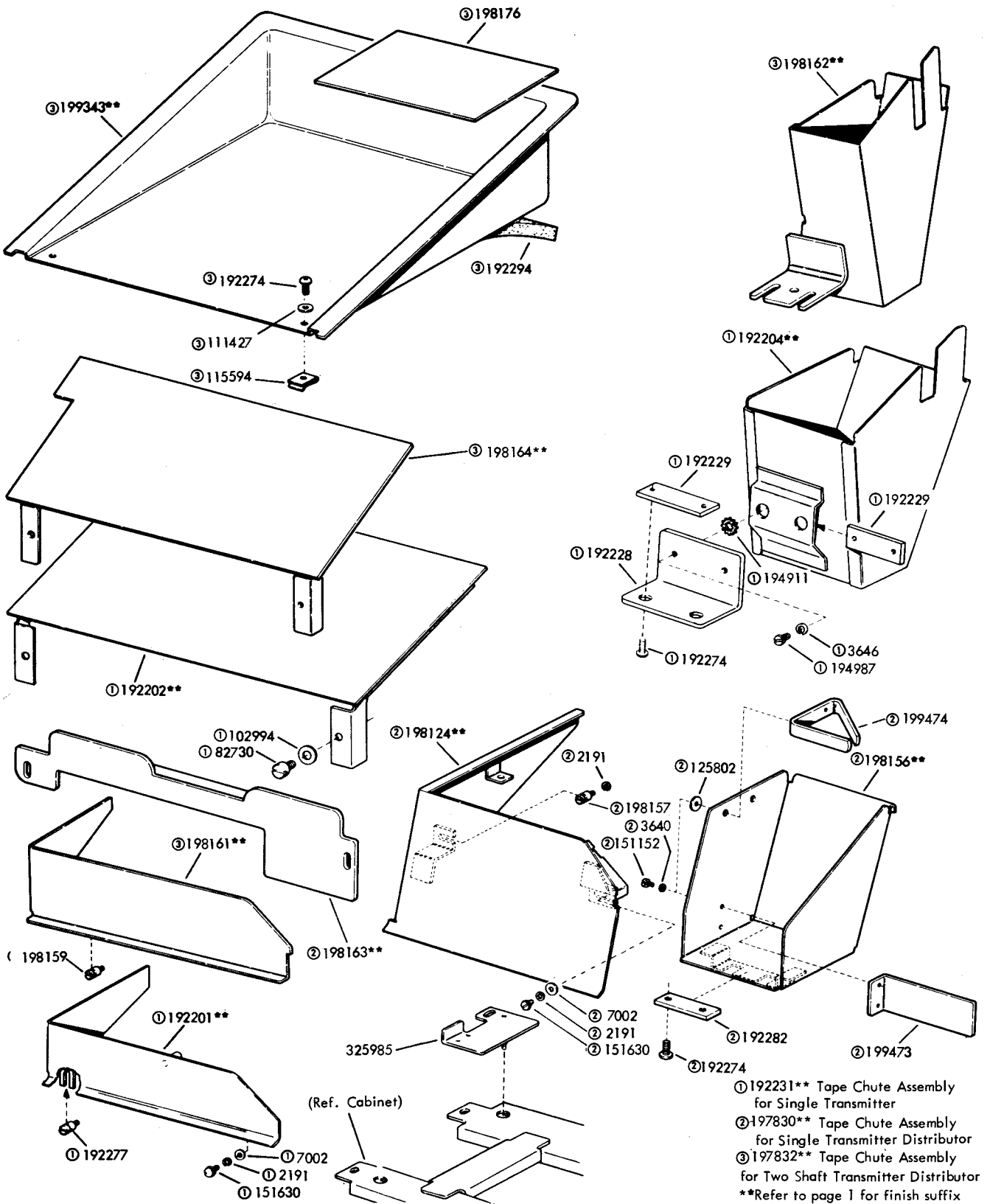


FIGURE 12. CABINET MOUNTED COMPONENTS

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
274M	Coil, Magnet 11	151610	Washer, Flat 8	181871	Shield, End 6
1286	Screw, 10-32 x 7/16 Fil 8	151620	Strap, Motor Mounting 5,6	182644	Terminal, Receptacle Type 11
2191	Washer, Lock 2 to 9, 11, 13	151621	Screw, 6-32 x 3/4 Rd 5	182648	Connector, 12 Pt Receptacle Type 11
2669	Washer, Lock 2 to 6, 8, 11	151622	Nut, 6-32 Sq 5, 6	182726	Terminal Receptacle Type 11
2846	Washer, Flat 3, 4	151630	Screw, 6-40 x 1/4 Hex 3, 7, 9, 11, 13	183991	Motor, 1/12 HP Series 1, 10
3438	Washer, Flat 4, 11	151631	Screw, 6-40 x 5/16 Hex 3, 8	185681	Plate, Identification 3
3598	Nut, 6-40 Hex 2	151632	Screw, 6-40 x 3/8 Hex 2, 3, 11	185849	Cap, Brush 10
3599	Nut, 4-40 Hex 11	151637	Screw, 4-40 x 1/4 Fil 9	185851	Brush 10
3640	Washer, Lock 8, 9, 11, 13	151657	Screw, 6-40 x 1/4 Fil 2, 3	185856	Ring, Cushion 10
3646	Washer, Lock 2, 3, 13	151658	Screw, 6-40 x 5/16 Fil 4, 5	185857	Stud 10
6345	Nut, 6-32 Hex 3, 9, 11	151685	Screw, 4-40 x 5/16 Fil 8, 11	185859	Stator 10
7002	Washer, Flat 2, 3, 7, 8, 9, 11, 13	151686	Screw, 4-40 x 3/8 Fil 9	185860	Rotor Assembly 10
8330	Washer, Flat 11	151694	Screw, 6-40 x 11/32 Fil 4	185861	Rotor w/Fan 10
34432	Washer, Flat 6, 11	151723	Screw, 10-32 x 3/8 Hex 3, 6, 7, 9	185862	Shield Assembly, End 10
35826	Washer, Flat 2, 3, 5, 7	151724	Screw, 10-32 x 5/8 Hex 3	185864	Shield Assembly, End 10
41668	Screw, 3-48 Shoulder 3	151926	Nut, 4-40 Spl 9	185867	Grommet, Rubber 10
45815	Washer, Lock 3, 4, 6, 7, 8, 9	152129	Spring 11	185868	Bolt, 6-32 x 3 Rd 10
47024	Washer, Flat 11	153030	Mount, Vibration 9	192002	Answer Back Assembly 1, 11
49056	Screw, 10-32 x 7/8 Hex 8	153441	Screw, 10-32 x 7/16 Hex 2, 6	192007	Terminal, Tab Type 2, 3
60669	Spring 11	153537	Screw, 6-40 x 9/32 Hex 7, 8	192019	Capacitor, 3 MFD 2
62135	Screw, 6-32 x 5/8 Rd 6	153538	Screw, 6-40 x 7/16 Hex 6, 11	192020	Bracket, Mounting 2, 11
70073	Nut, 3-48 Hex 3	153631	Network, Spark Suppression 11	192022	Gear, 90T 11
74805	Screw, 10-32 x 3/4 Hex 3	153803	Jumper, 5" Slate 9	192025	Washer, Flat 11
76422	Spring 11	153819	Washer, Lock 3	192027	Spacer, Disk 11
76461	Washer, Flat 6, 11	153839	Screw, 6-40 x 5/8 Hex 11	192028	Bushing, Shoulder 11
76966	Screw, 10-32 Set 6	155753	Sleeve-1/8 ID x 1/2" Lg	192029	Shaft, Main 11
82730	Screw, 10-32 Shoulder 13	155755	Insulating 11	192030	Bearing 11
82833	Washer, Flat 2, 3, 4	156226	Sleeve, 11/64 ID x 5/8" Lg	192034	Bearing, Clutch 11
84579	Washer, Flat 7, 8	156501	Insulating 11	192035	Lever, Clutch Release 11
87334	Washer, Insulating 9	156501	Hub 4	192036	Drum, Shaft 11
90504	Washer, Felt 4	156588	Screw, 6-40 x 7/32 Fil 7, 8, 9	192037	Spring, Right Clutch 11
90790	Washer, Flat 2	156740	Ring, Retaining 8	192038	Lever, Stop 11
93107	Bearing, Ball 10	156805	Screw, 6-40 x 7/32 Hex 8, 11	192039	Common, Feed 11
98718	Washer, Flat 2, 3	156806	Retainer 6, 9, 10	192040	Bearing 11
102994	Washer, Flat 2, 3, 4, 13	159341	Post 6, 10	192041	Bracket, Feed Lever 11
103305	Washer, Flat 6, 9	162360	Bearing, Ball 7, 8	192042	Shaft 11
104451	Washer, Lock 11	162469	Fuse, SL-BL .8 Amp 2	192043	Ball, Feed 11
110743	Washer, Lock 11	163729	Washer, Spring 10	192044	Screw, 4-40 Shoulder 11
111017	Screw, 6-40 x 5/16 Fil 2, 3, 11	164419	Clamp, Bearing 10	192045	Spring, Feed Pawl 11
111427	Washer, Flat 13	173716	Plate, Nut 11	192047	Bracket, Yoke 11
112626	Nut, 10-32 Hex 2, 3, 4	173941	Terminal, Receptacle Type 2	192048	Aramture, Clutch Trip 11
113113	Spacer, .173" Thk 7, 8	173974	Terminal, Receptacle Type 2	192049	Relay 11
115594	Nut, Speed 13	174250	Screw, 10-32 x 5/16 Hex 2, 3, 4, 5, 7, 8, 11	192050	Screw, 10-32 Shoulder 11
116783	Holder, Fuse 2, 3	174471	Pin, Roll 5	192051	Cable w/Terminals 11
117535	Washer, Flat 4, 8	176417	Switch, Thermostatic 9	192052	Ring 11
117541	Washer, Flat 11	176572	Ring, Retaining 7	192074	Foot w/Nut 11
119376	Washer, Flat 4	180044	Ring, Retaining 11	192108	Jumper, 4-1/2" Slate 2, 3
119389	Washer, Flat 8	180045	Terminal, Tab Type 11	192113	Plate w/50 PT Receptacle Type Connector 2
119652	Ring, Retaining 11	180823	Terminal, Tab Type 11	192114	Shield Assembly, End 5
119653	Ring, Retaining 2, 3, 4	180824	Block, Contact 11	192120	Motor, 115V AC Synchronous 1, 5
121426	Jumper, 7-3/4" Black 2, 3, 9	180826	Contact, Common 11	192134	Post 2
121630	Washer, Flat 8	180827	Lever, Detent 11	142168	Ring 2, 4
125002	Screw, 8-32 x 3/8 Flat 3, 4	180828	Drum, Answer Back 11	192169	Bushing 2, 4
125011	Screw, Flat 9	180842	Pawl, Feed 11	192189	Bracket, Connector 11
125802	Washer, Flat 13	180854	Spacer, .050" Thk 11	192194	Gear, 30T 5
130499	Bearing, Ball 8	180858	Brace 11	192195	Gear, 63T 2
135096	Hub 8	180904	Contact, Wire 11	192196	Plate, Idler 2
139820	Fuse, SL-BL 2.5 Amp 3	180979	Tab, Terminal 2, 3	192200	Stud 2
139850	Screw, Drive 10	180980	Brush, Carbon 11	192201**	Plate, Cover 13
145321	Tie, Cable 11	80987	Holder, Brush 11	192202**	Plate w/Brackets 13
147990	Rotor 5	80992	Disk, 8 Level 11	192204**	Chute, Tape 13
150966	Insulator, Terminal Block 2, 3	181384	Spring, Torsion 11	192207	Pin, Roll 11
151152	Screw, 4-40 x 3/16 Hex 13	181392	Capacitor, 88-108 MFD 3	192225	Contact Assembly 11
151335	Stud 2, 3	181868	Terminal, Tab Type 3	192226	Bracket, Capacitor Mounting 2
151346	Screw, 6-40 x 3/8 Fil 7, 8		Clip, Speed 3		
151415	Block, Terminal 2, 3				
151416	Nut, 6-40 Hex 2, 3				

\*\*Refer to page 1 for finish suffix

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
192228	Bracket 13	197780	Plate, Mounting 6,7	198161**	Plate, Cover 13
192229	Plate, Nut 13	197782	Gear, 118T 7	198162**	Funnel, Tape 13
192231**	Chute Assembly, Tape 13	197783	Gear, 59T 7	198163**	Fence, Bracket 13
192235	Gear, 20T 5	197785	Hub 7	198164**	Plate 13
192238	Bracket, Motor Mounting 5	197787	Hub, Gear 6,7,8,9	198175	Bracket 3
192240	Post 2,3	197788	Clamp 7,8	198176	Plate w/Studs 13
192243	Plate, Mounting 2,5	197789	Plate 7,8	198189	Post 9
192244	Washer, Spring 2	197790	Plate, Bearing Mounting 8	199343**	Tray, Paper 13
192268	Guard, Gear 2	197794	Bracket, Bearing Mounting 7	199473	Baffle, Tape 13
192274	Screw, 8-32 Spl 2,3,13	197798	Bracket, Connector 3	199474	Guide, Tape 13
192277	Stud 13	197799	Bracket 3	199490	Guard, Gear 6
192282	Plate, Nut 13	197800	Post, Gear 3	199491	Shaft Assembly 1,8
192294	Pad, Tray 13	197801	Shaft 7	301668	Cable w/Terminals 2
193465	Jumper, 3/4" Black 2	197802	Bracket, Capacitor Mounting 3	305680	Plate 8
194816	Spring 11	197803	Plate, Bearing Mounting 8	305681	Black 8
194911	Washer, Lock 13	197804	Stud 2,3	305764	Guard, Gear 11
194987	Screw, 8-32 x 3/8 Hex 13	197805	Plate, Nut 2,3	309590	Ring, Retaining 4
195617	Spring 11	197806	Stud 3,4	309593	Bearing 4
195618	Jumper, 5-1/4" White-Purple 11	197807	Stud 6	309596	Nut, Speed 4
195732	Plate, Identification 3,4	197809	Spacer, .798" Thk 8	310290	Fan, Centrifugal 6
195801	Motor, 115V AC Synchronous 1,6	197810	Gear, 30T 8	310630	Bushing, Eccentric 11
195802	Bracket, Motor Mounting 6	197812	Pinion, 30T 8	311770	Pinion, 40T 6
195820	Relay, Motor 3	197814	Gear, 30T 8	315858	Gear, 132T 6
195862	Connector, 2 Pt Plug 2, 3	197815	Gear, 45T 7,8	315859	Pinion, 30T 6
195865	Cable Assembly 2,3	197816	Shaft Assembly 1,8	315864	Gear Set, 68 WPM 6
197027	Jumper, 9" Black 3	197817	Plate 2	320410	Terminal, Spade Type 2
197765	Plate, Mounting 4,5	197818	Spacer 8	320418	Terminal, Ring Type 2,3
197766	Plate, Extension 4	197819	Insulator 3	320438	Pinion, 46T 9, 10
197767	Plate 3	197820	Shaft Assembly 1,8	320439	Gear, 115T 9
197768	Stud 4	197821	Bushing 3	320494	Spacer, .015" Thk 10
197769	Post 3,4	197822	Ring 3	320495	Spacer, .031" Thk 10
197770	Post 3,4	197823	Shaft Assembly 4	320496	Spacer, .062" Thk 10
197772	Shaft 4	197824	Gear Set, 100 WPM 6	321000	Motor, Synchronous 1,9
197773	Gear, 60T 4	197828	Shaft Assembly 1,7	321064	Bracket, Motor 9
197774	Bracket 4	197830**	Chute Assembly, Tape 13	321076	Bracket, Mounting 9
197775	Base 3,6,9	197831	Shaft Assembly 1,8	321077	Capacitor 9
197776	Plate, Top 3	197832**	Chute Assembly, Tape 13	324483	Answer Back Assembly 1,11
197777	Plate 6	198124	Plate, Cover 13	324484	Gear, 60T 11
197778	Shaft 8	198156**	Compartment, Tape 13	324485	Bracket, Mounting 11
197779	Geor, 120T 6,7	198157	Post 13	324550	Plate, Name 10
		198159	Post 13	325985	Bracket 13

\*\*Refer to page 1 for finish suffix

35 NON-TYPING REPERFORATOR (LRPE)

PARTS

FIGURE	CONTENTS	PAGE
1	Main Plate - One Punch Unit	2
2	Main Plate - Duo Punch Unit	3
3	Frame Mechanism	4
4	Main Shaft - 1 Cycle	5
5	Punch Front Plate Mechanism	6
6	Punch Rear Plate Mechanism	7
7	Punch Blocks and Chad Chutes	8
8	Punch Bail Mechanism	9
9	Rocker Bail Mechanism	10
10	Selector Mechanism	11
11	Selector Mechanism (Continued)	12
12	Selector Magnet Mechanism	13
13	170196 Modification Kit to add Power Drive to Backspace	14
14	170196 Modification Kit to add Power Drive to Backspace(Continued)	15
15	Slack Tape Mechanism	16
16	198760 Timing Contact Assembly	17
17	Code Reading Contacts	18
18	159381 Modification Kit to Provide Auxiliary Timing Contacts	18
19	Components for Quick Disconnect Feature	19
	Numerical Index	20



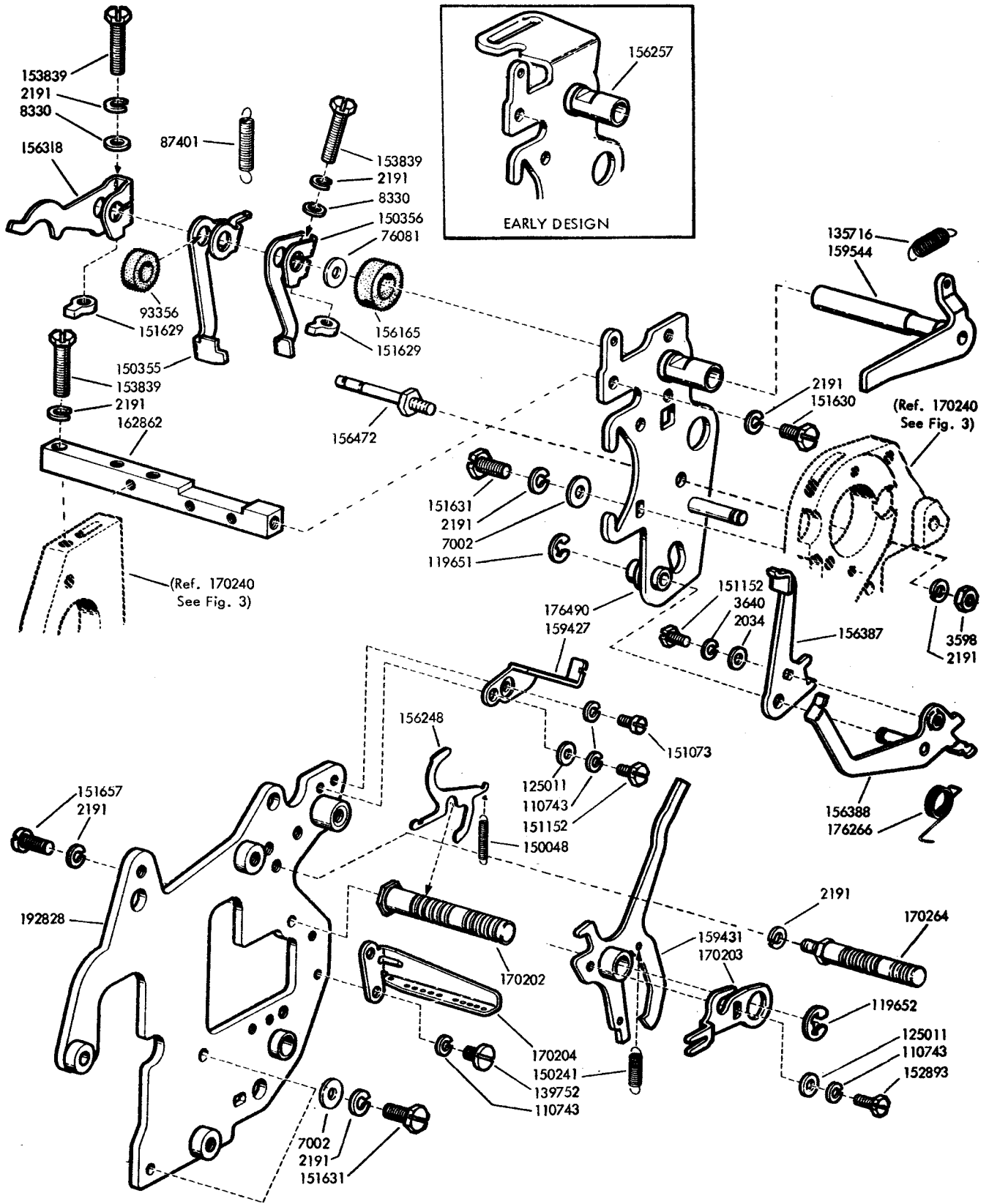


FIGURE 1. MAIN PLATE-ONE PUNCH UNIT

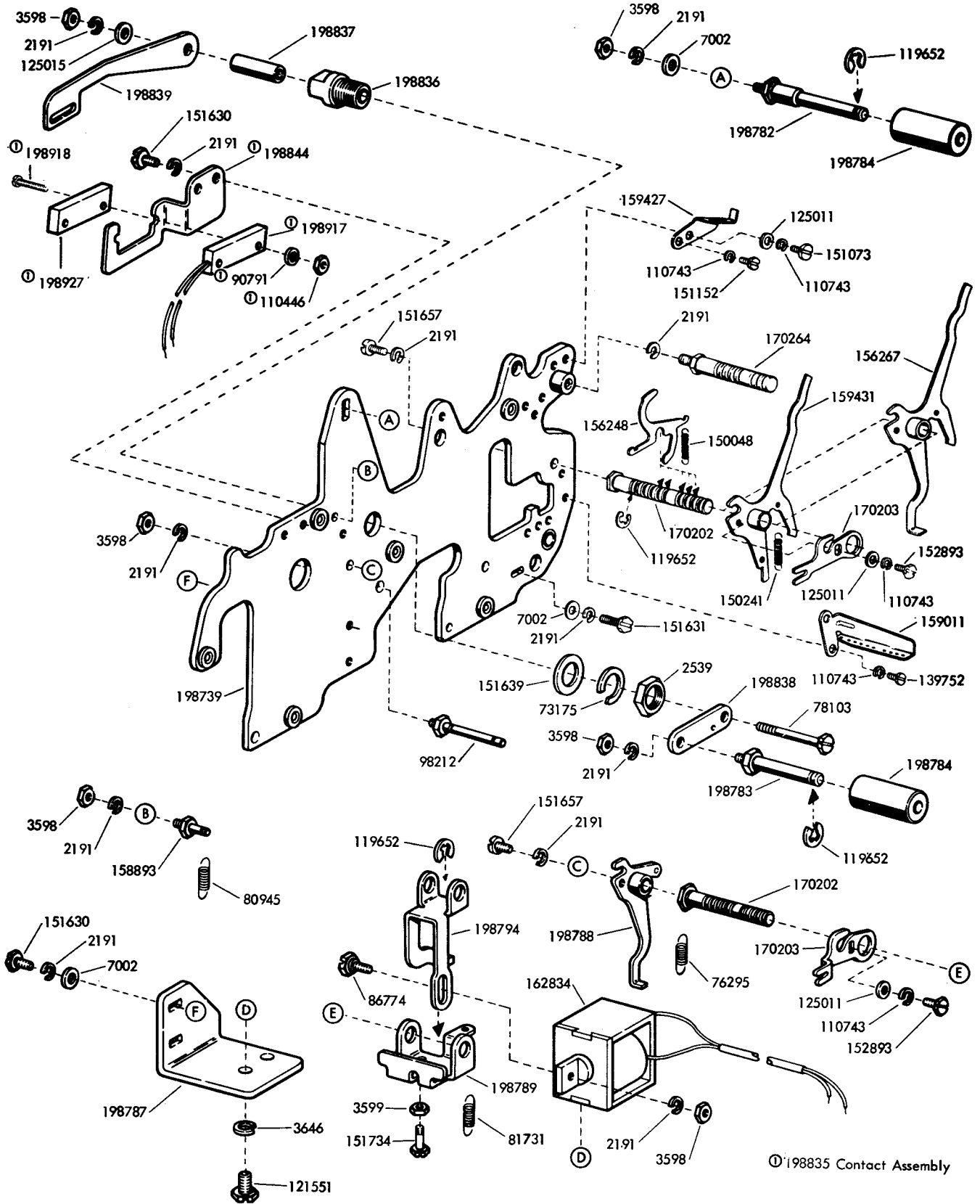
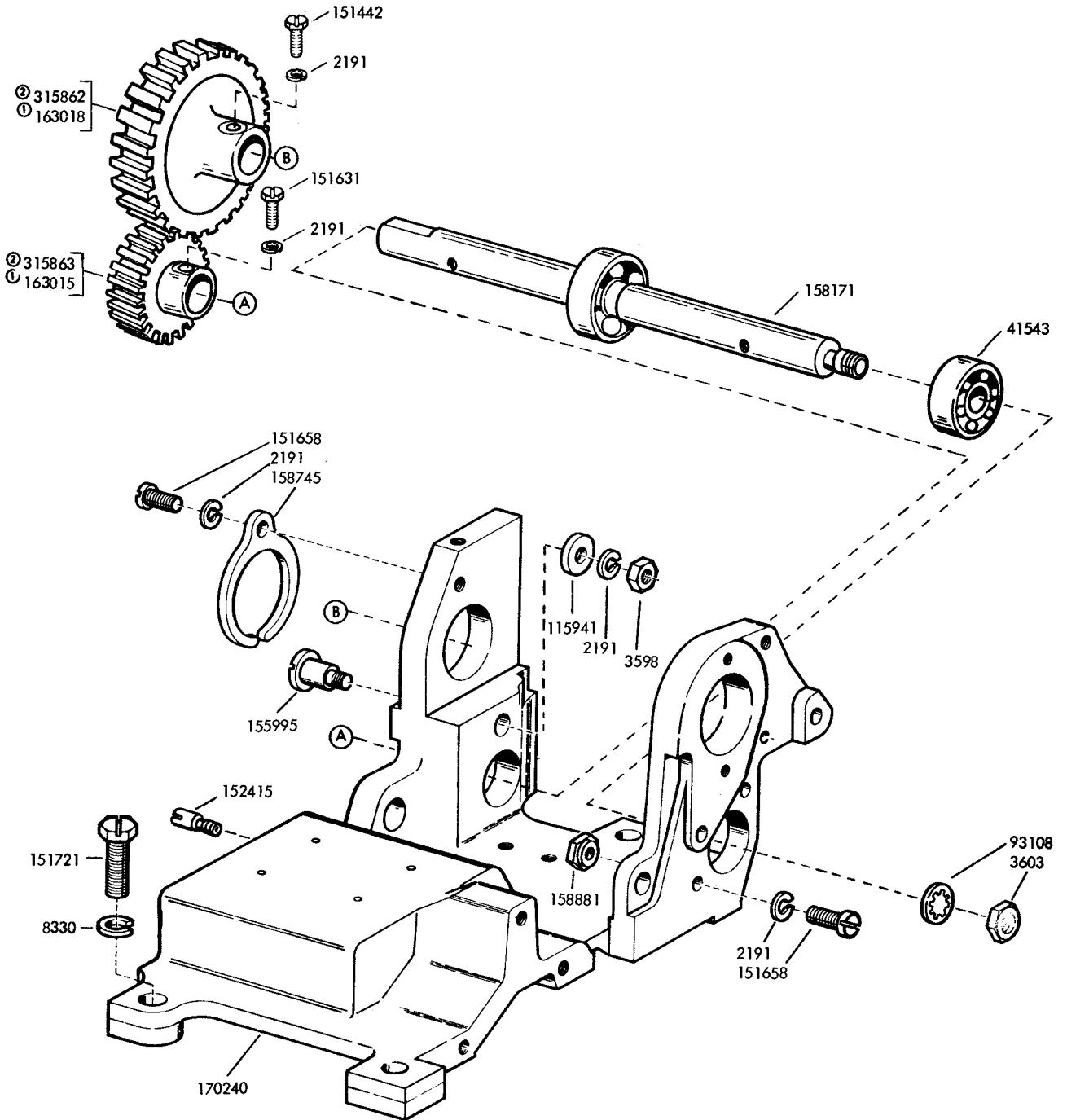


FIGURE 2. MAIN PLATE-DUO PUNCH UNIT



① 163025 Gear Set, 100 WPM  
 ② 315866 Gear Set, 114 WPM

FIGURE 3. FRAME MECHANISM

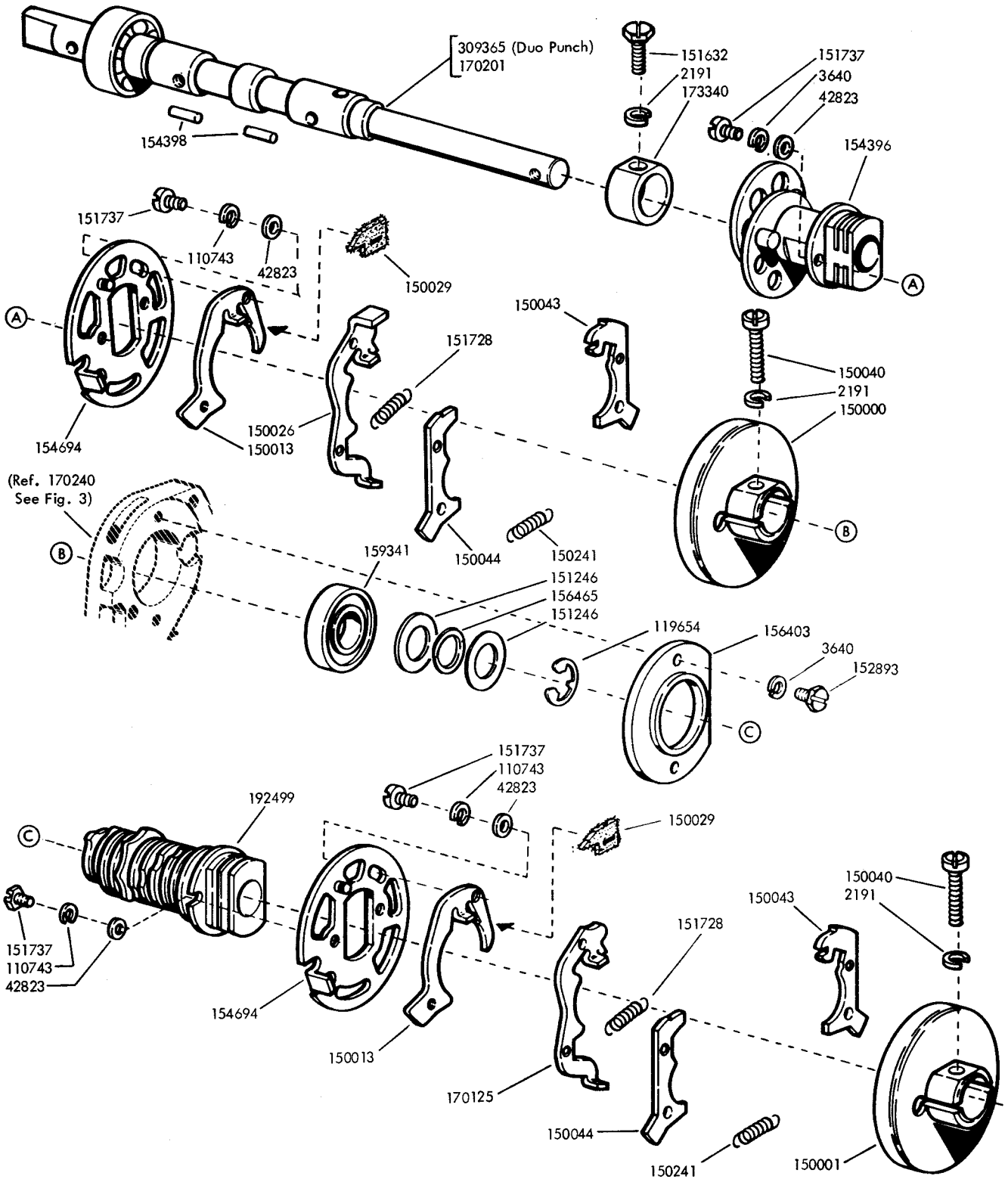


FIGURE 4. MAIN SHAFT-1 CYCLE

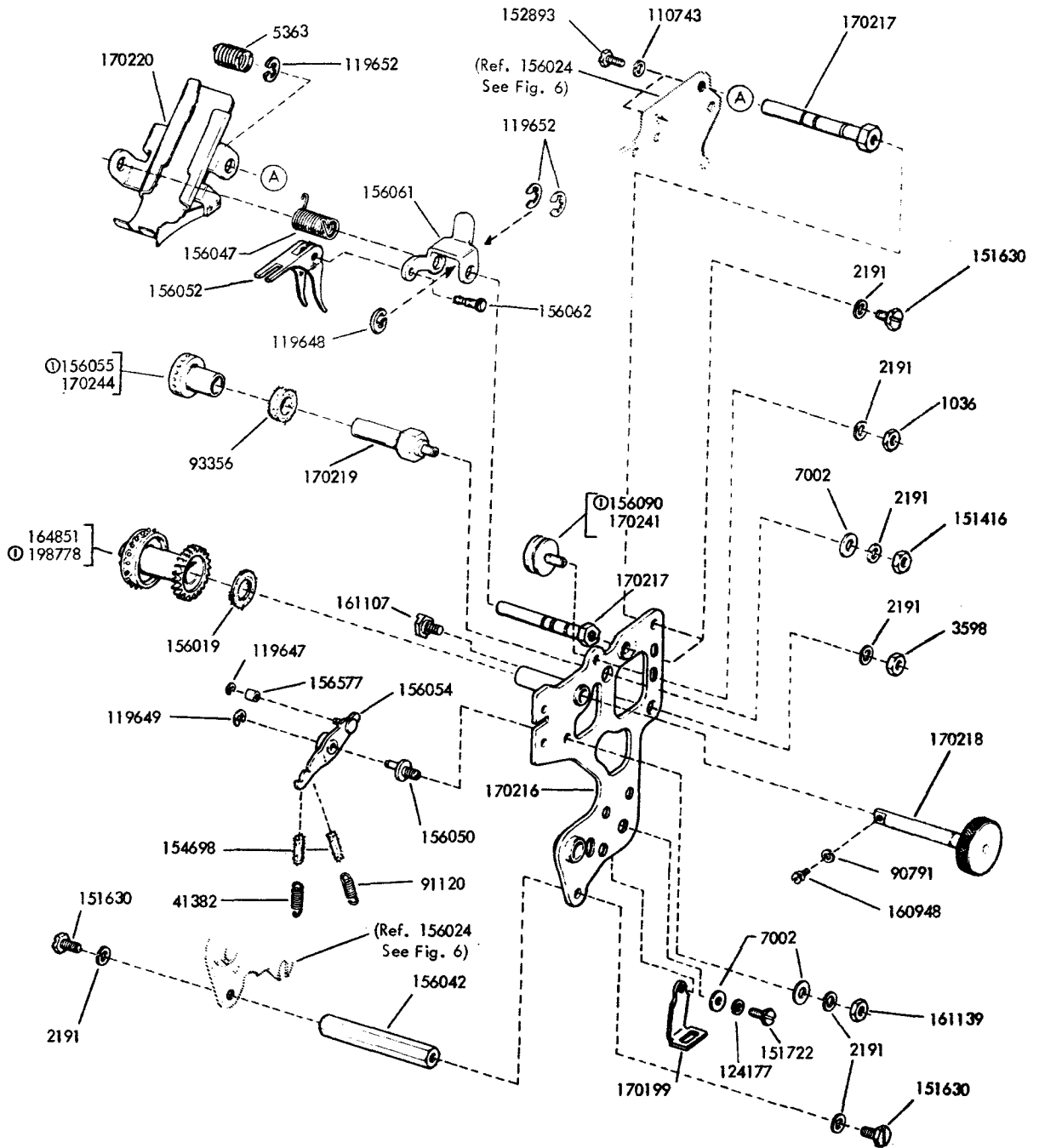


FIGURE 5. PUNCH FRONT PLATE MECHANISM

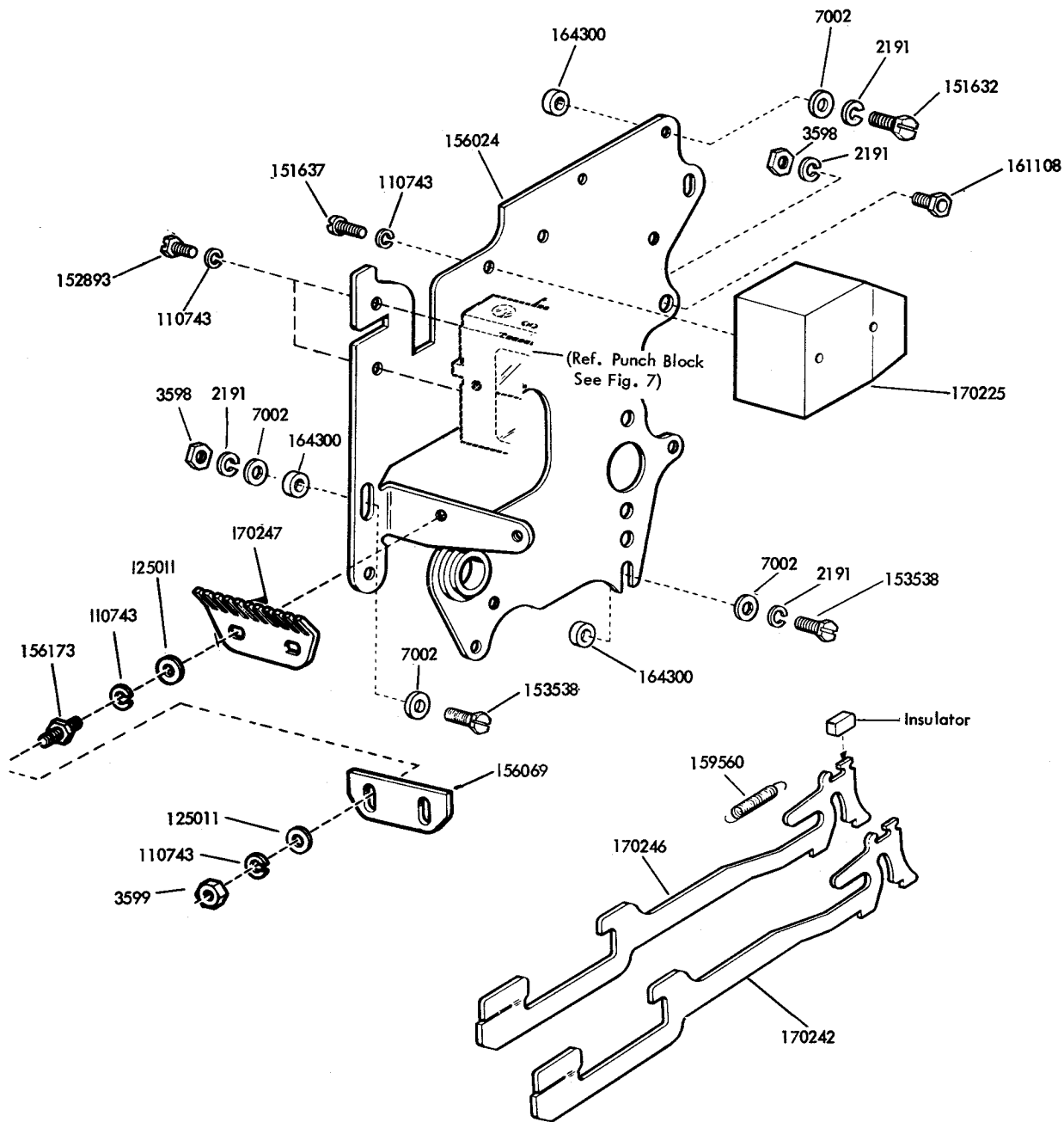
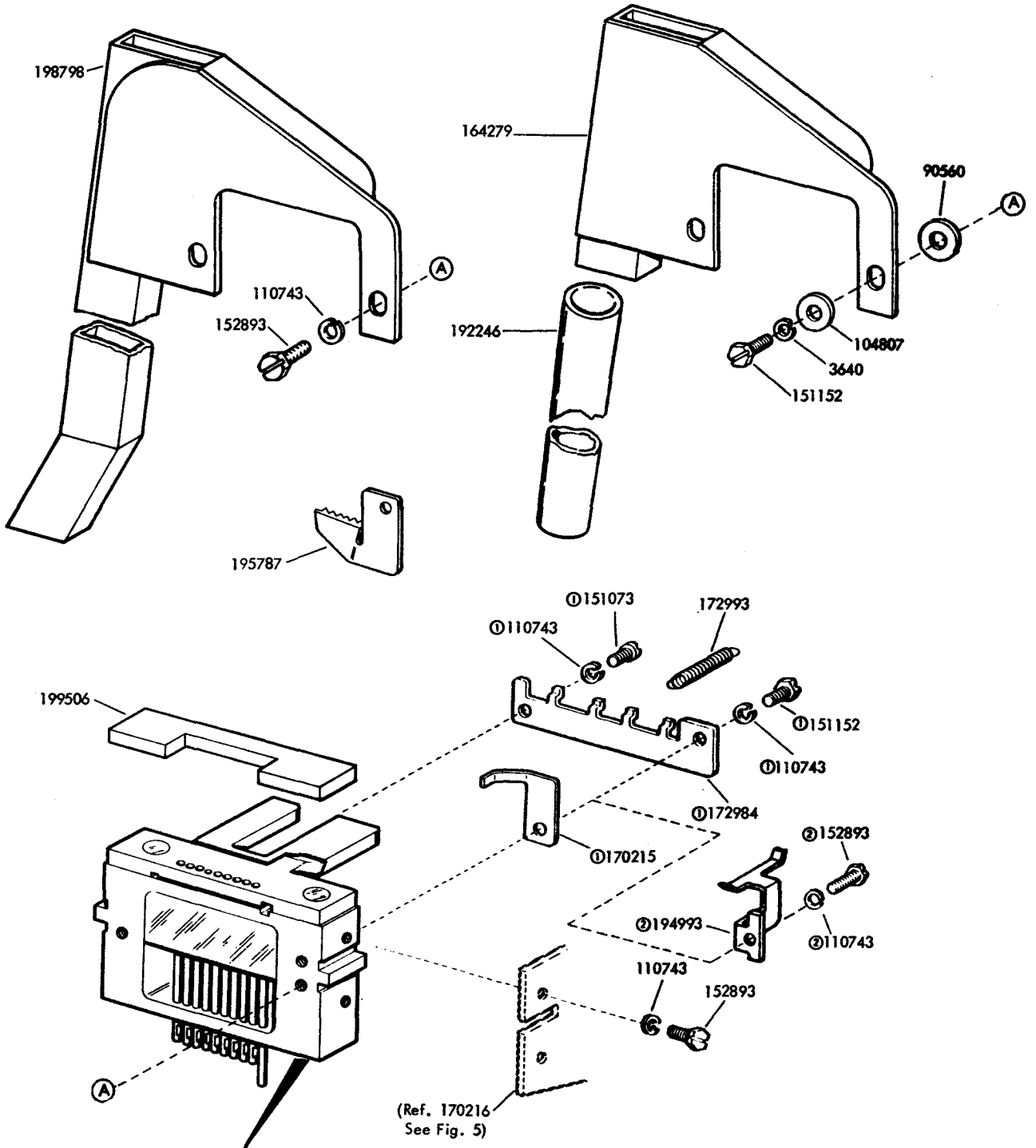


FIGURE 6. PUNCH REAR PLATE MECHANISM



Due to special assembly processes, it is recommended that Teletype Corporation be contacted to determine if part replacement or repair is possible on this portion of the Punch Block Assembly.

① 170210 and 198781 (Delete) Punch Block Assemblies  
 ② 194992 Modification Kit to provide a Tape Guide

FIGURE 7. PUNCH BLOCKS AND CHAD CHUTES

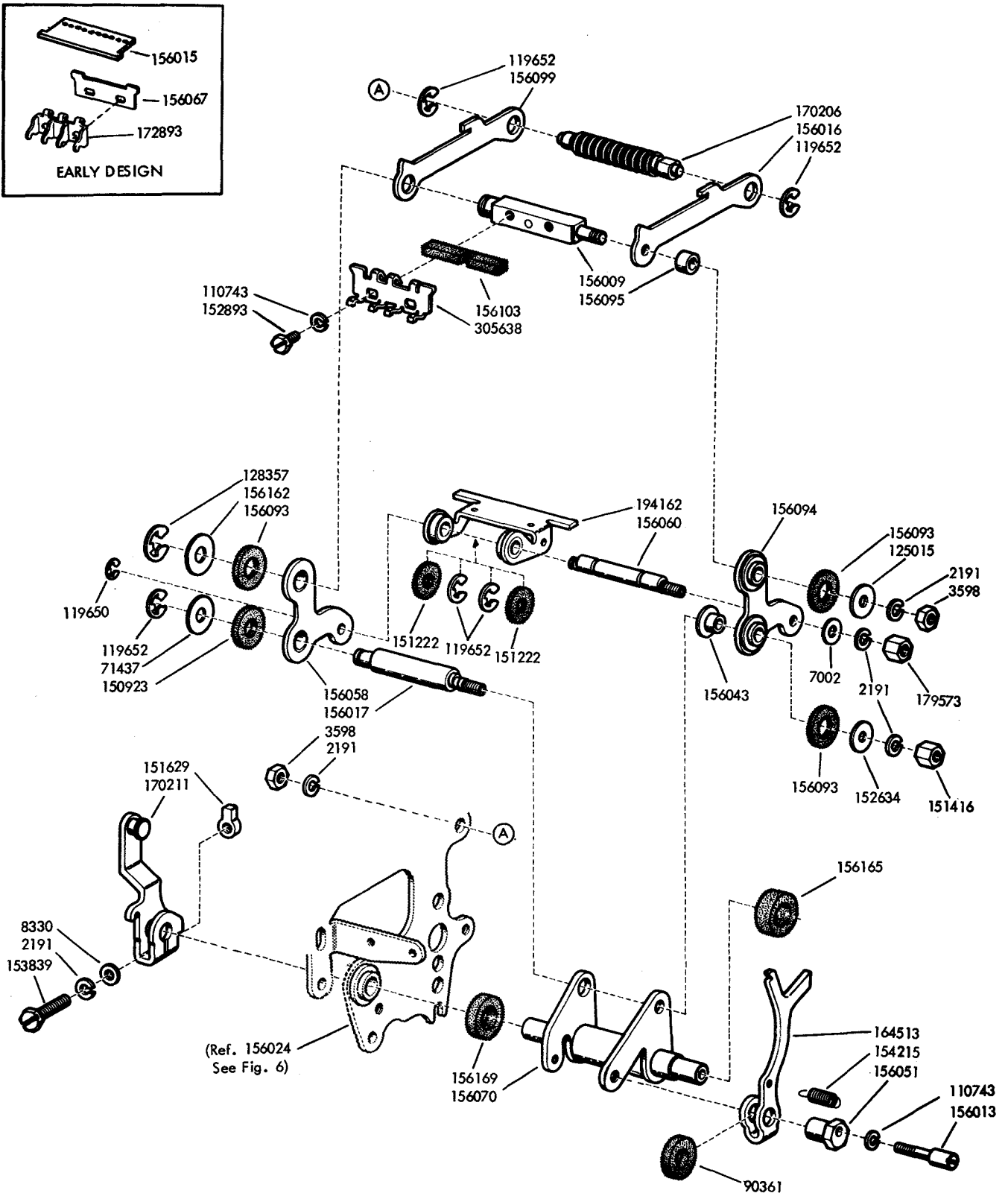
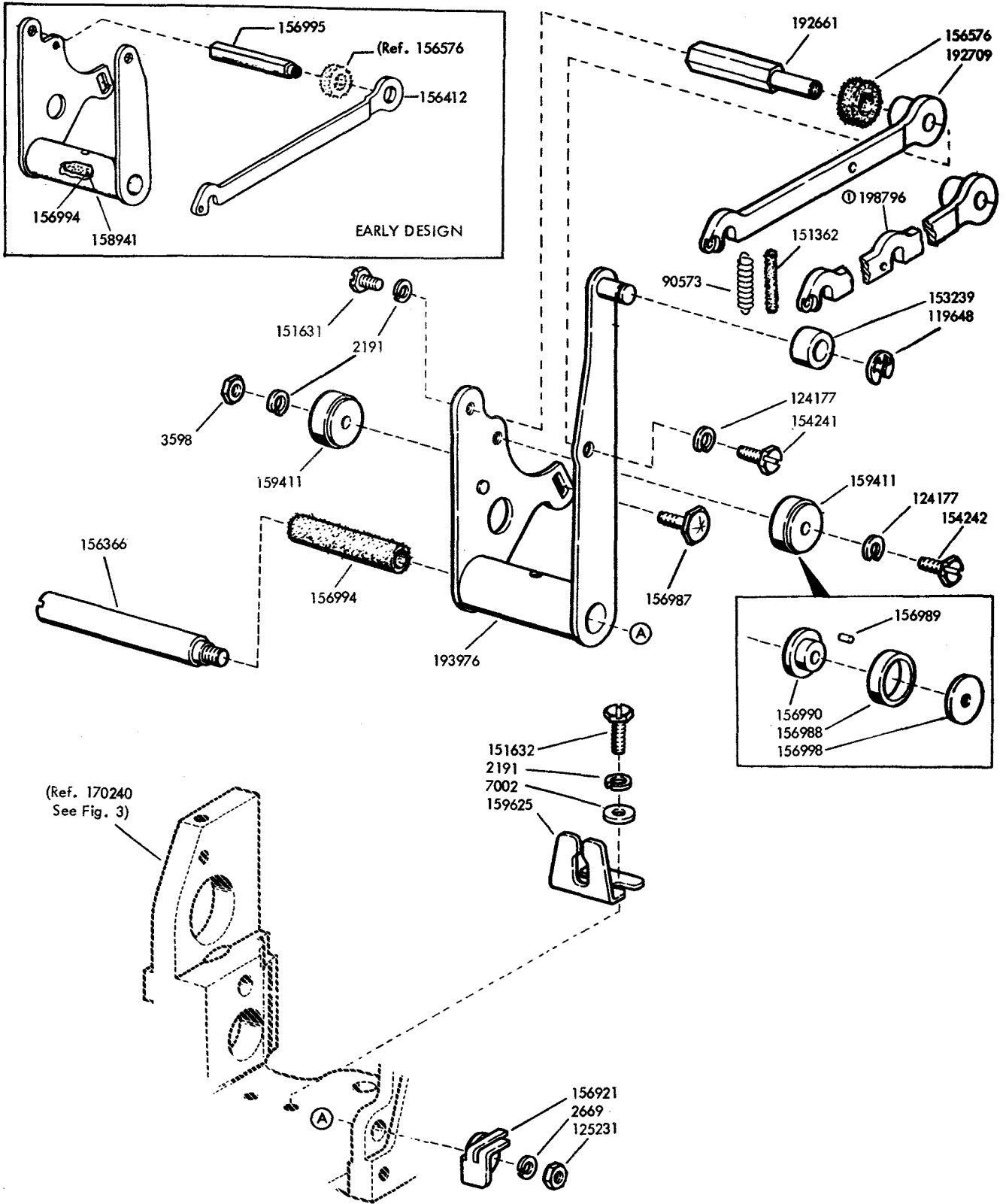


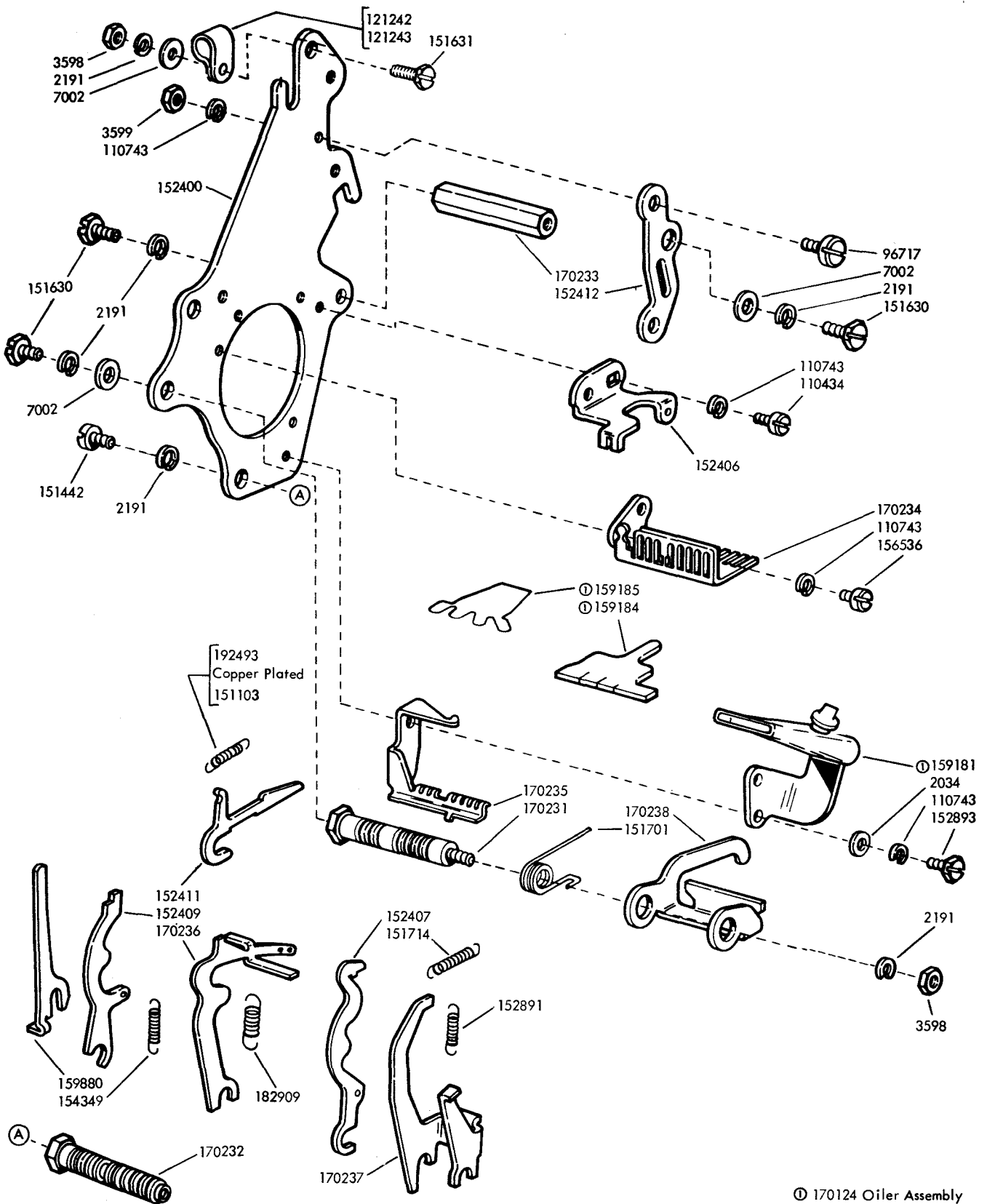
FIGURE 8. PUNCH BAIL MECHANISM





ⓐ Peculiar to Delete Punch Mechanism

FIGURE 9. ROCKER BAIL MECHANISM



© 170124 Oiler Assembly

FIGURE 10. SELECTOR MECHANISM

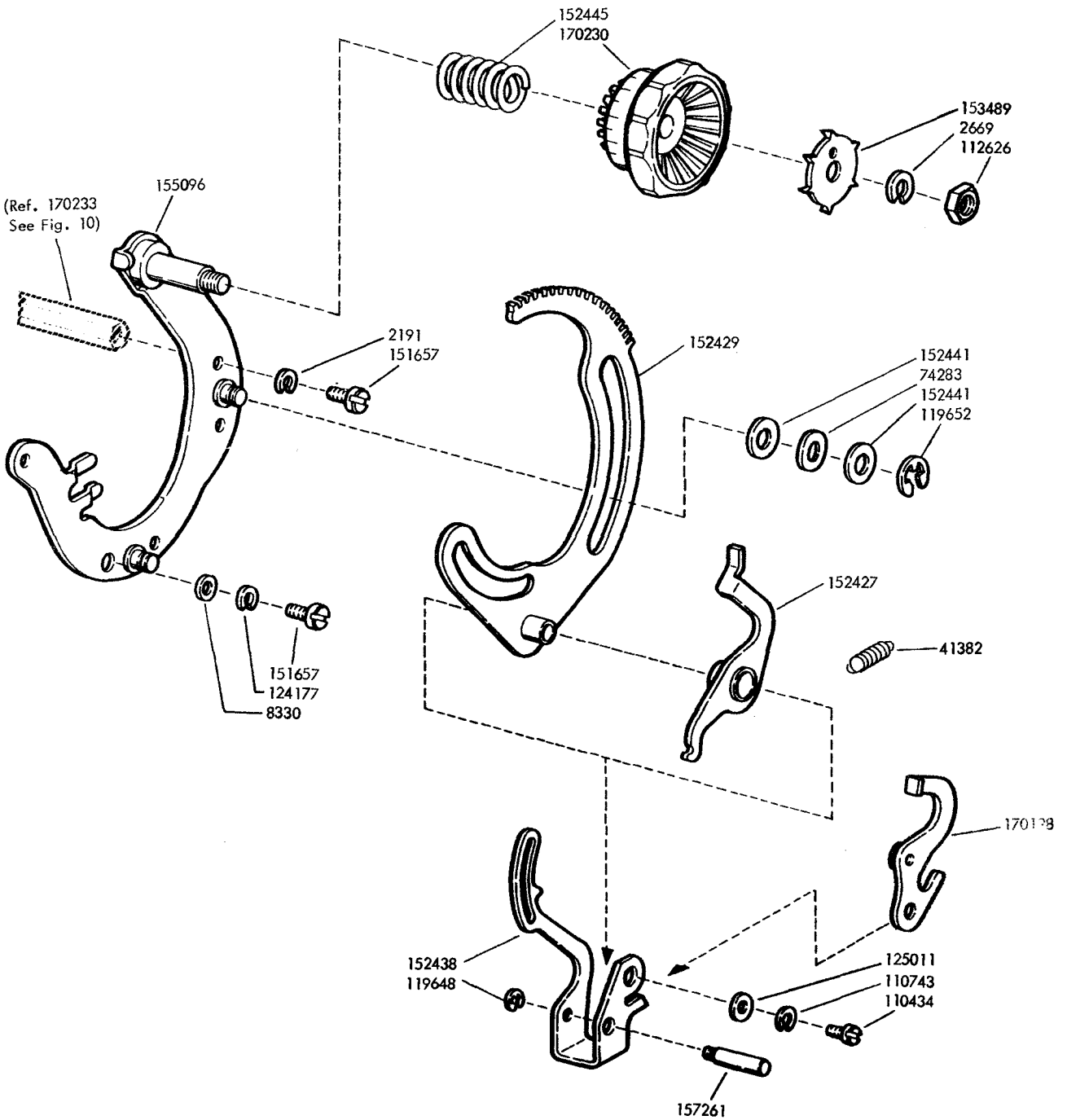
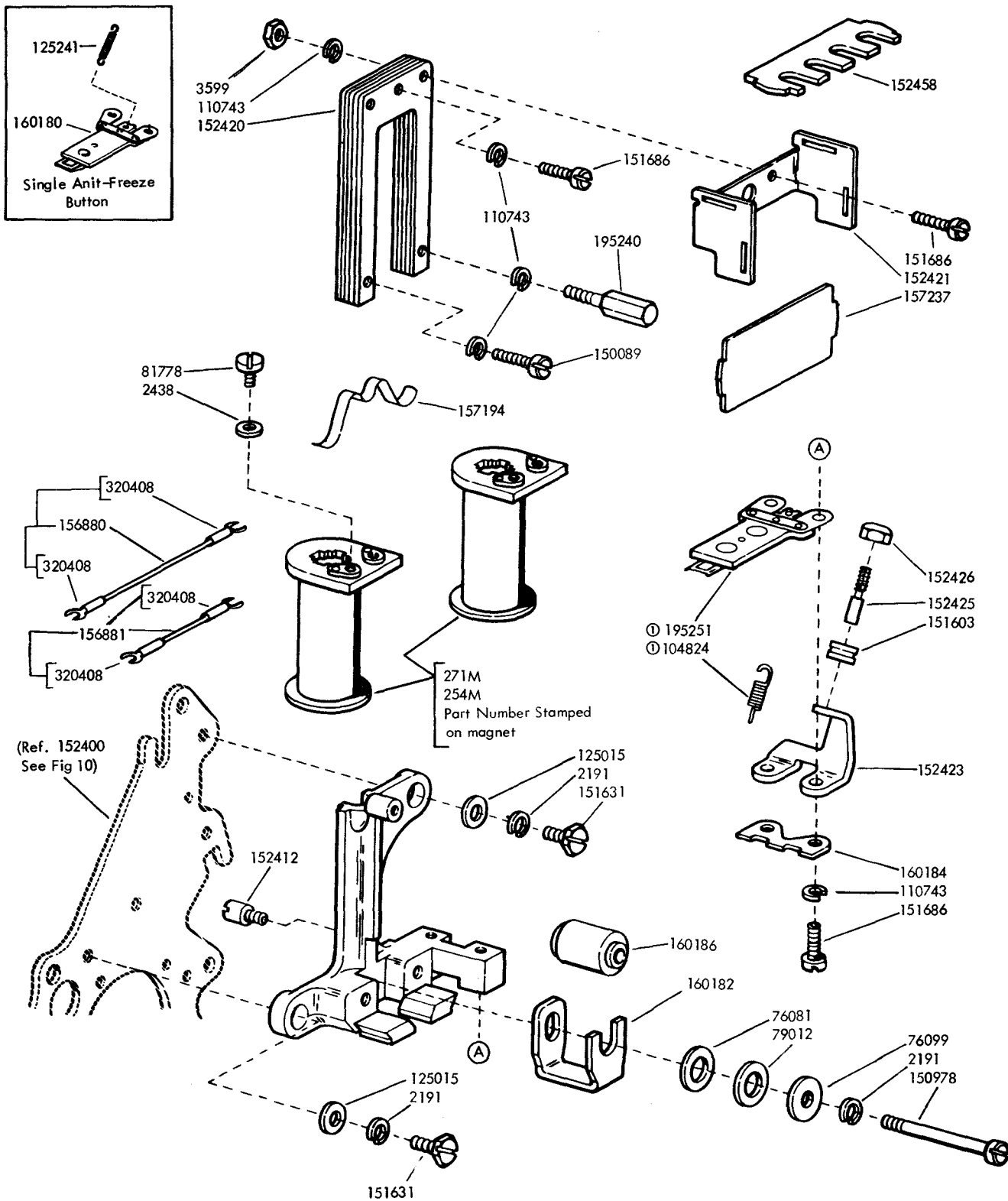


FIGURE 11. SELECTOR MECHANISM (Continued)



ⓐ 195634 Modification Kit to Provide Quick Release Armature, Specification 501655.

FIGURE 12. SELECTOR MAGNET MECHANISM

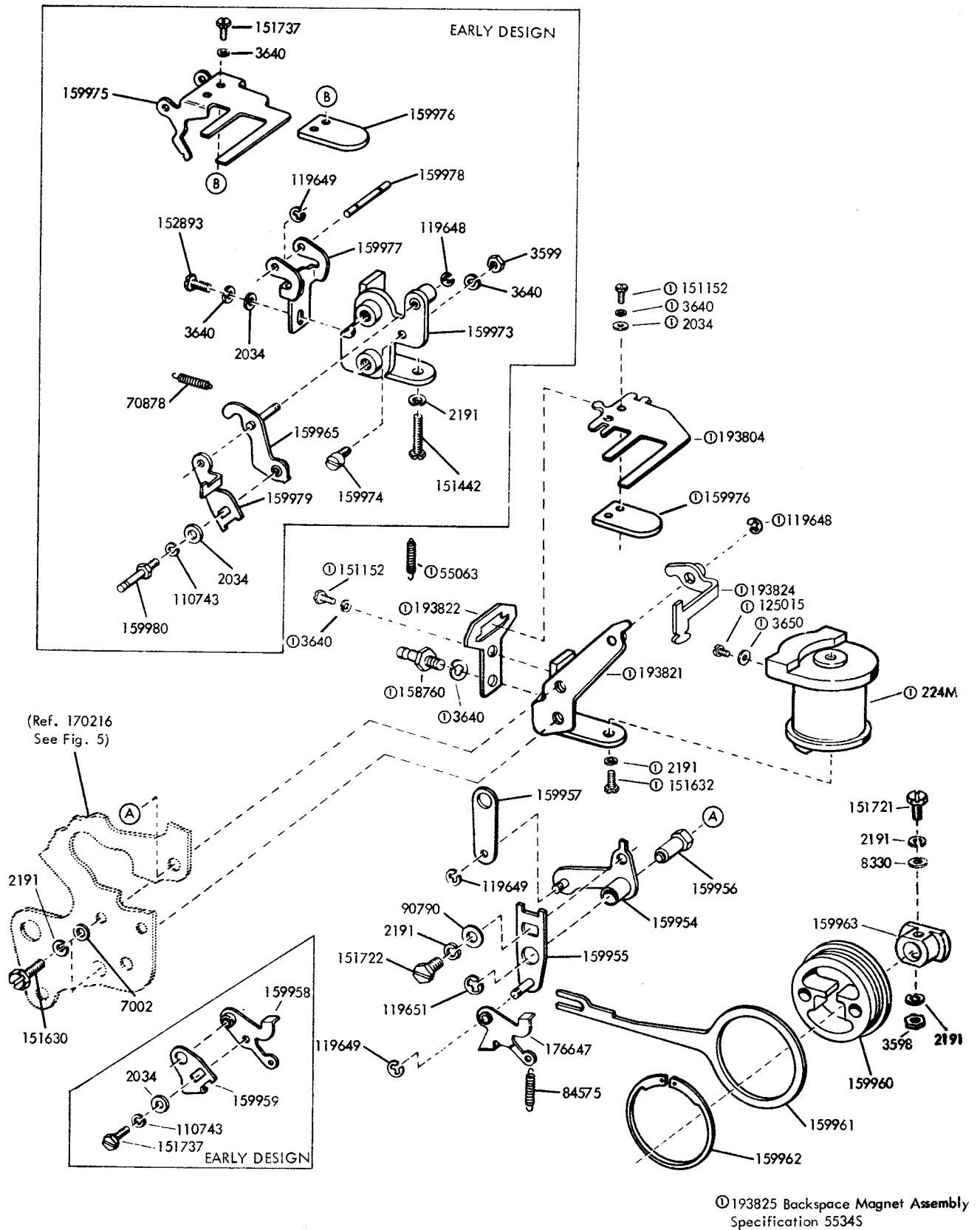
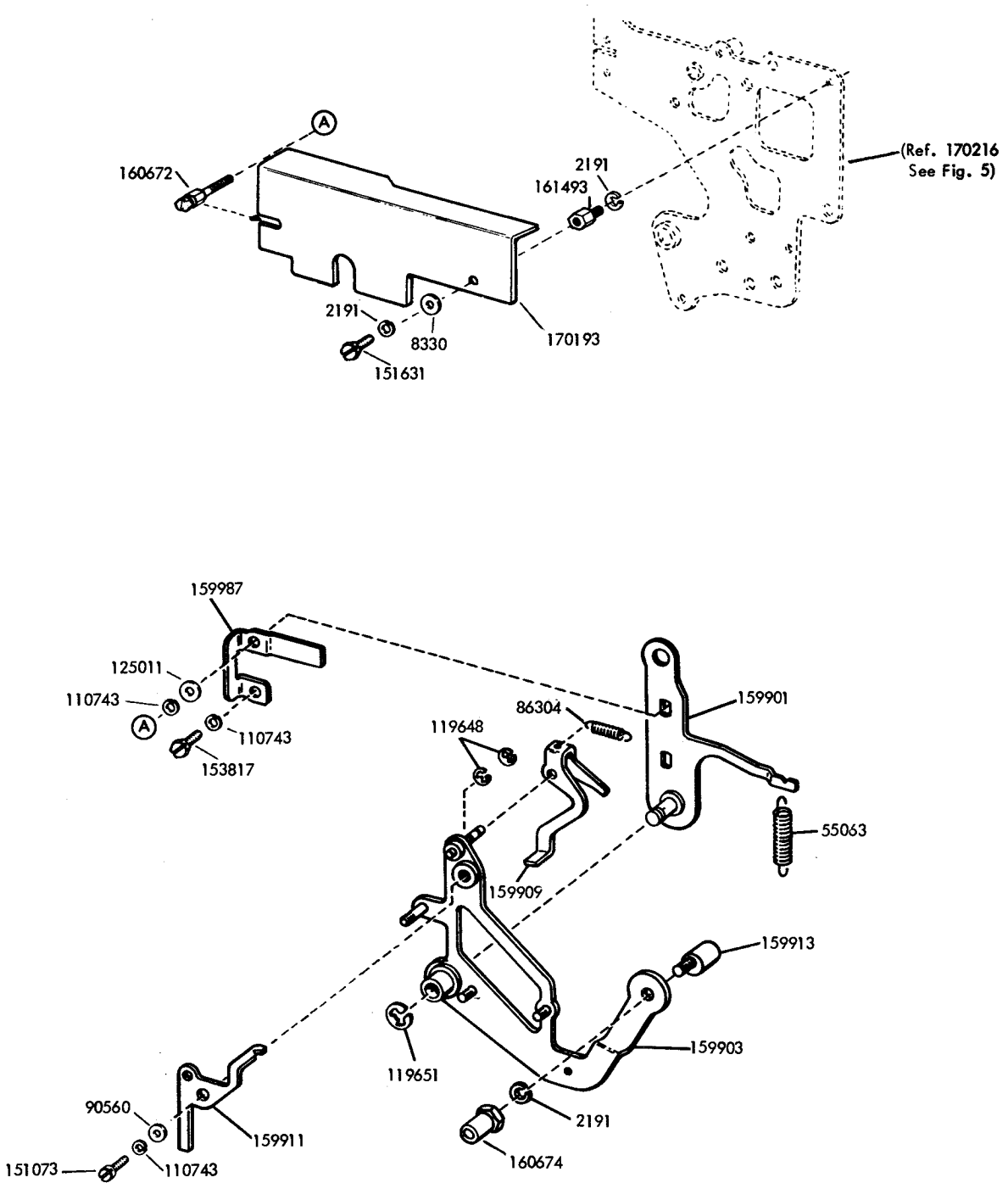


FIGURE 13. 170196 MODIFICATION KIT TO ADD POWER DRIVE TO BACKSPACE



Specification 5534S

FIGURE 14. 170196 MODIFICATION KIT TO ADD POWER DRIVE TO BACKSPACE (Continued)

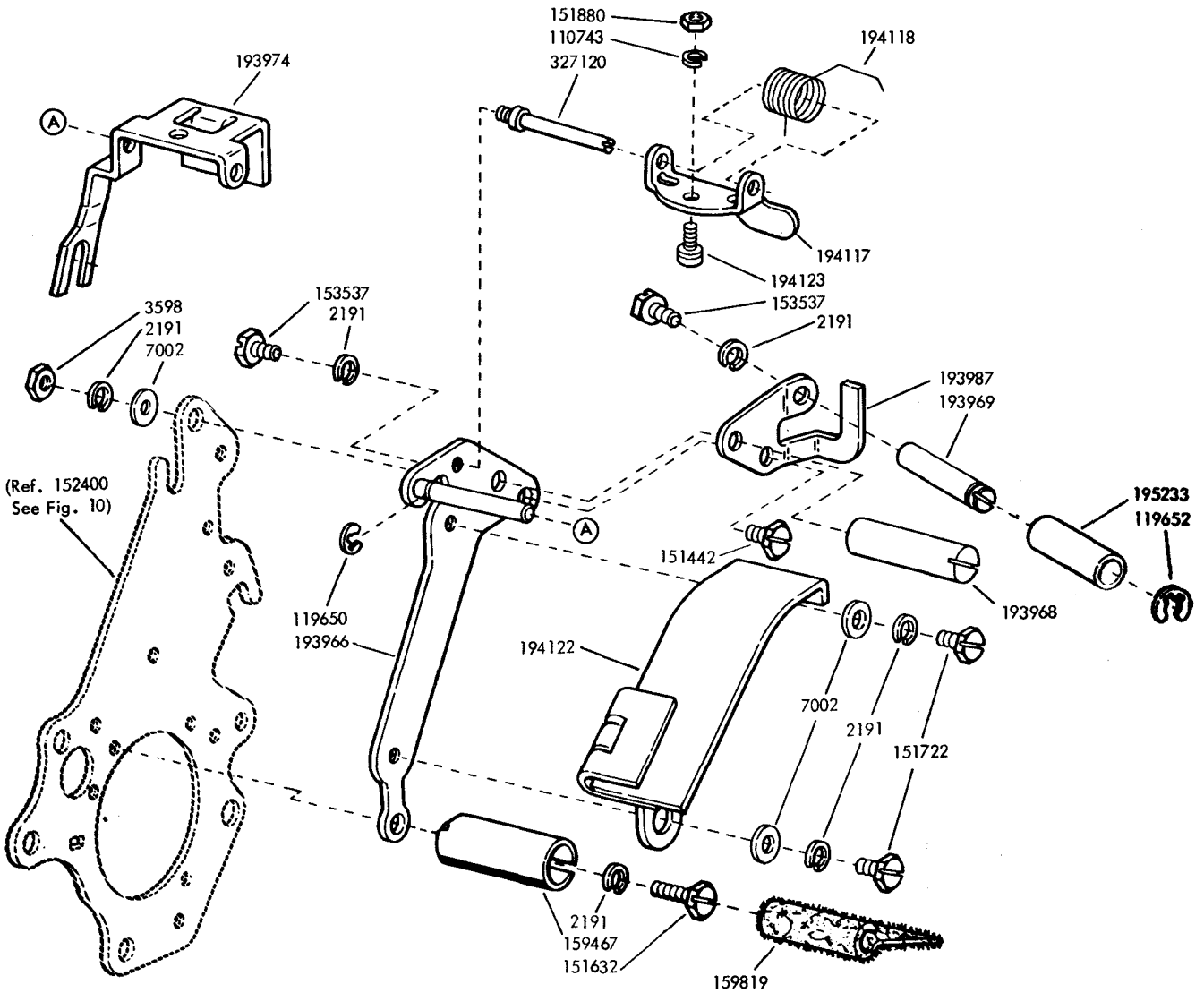
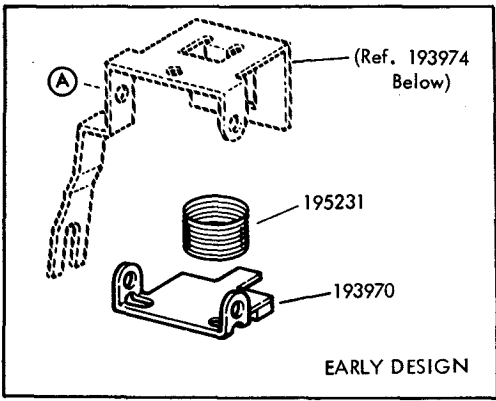


FIGURE 15. SLACK TAPE MECHANISM

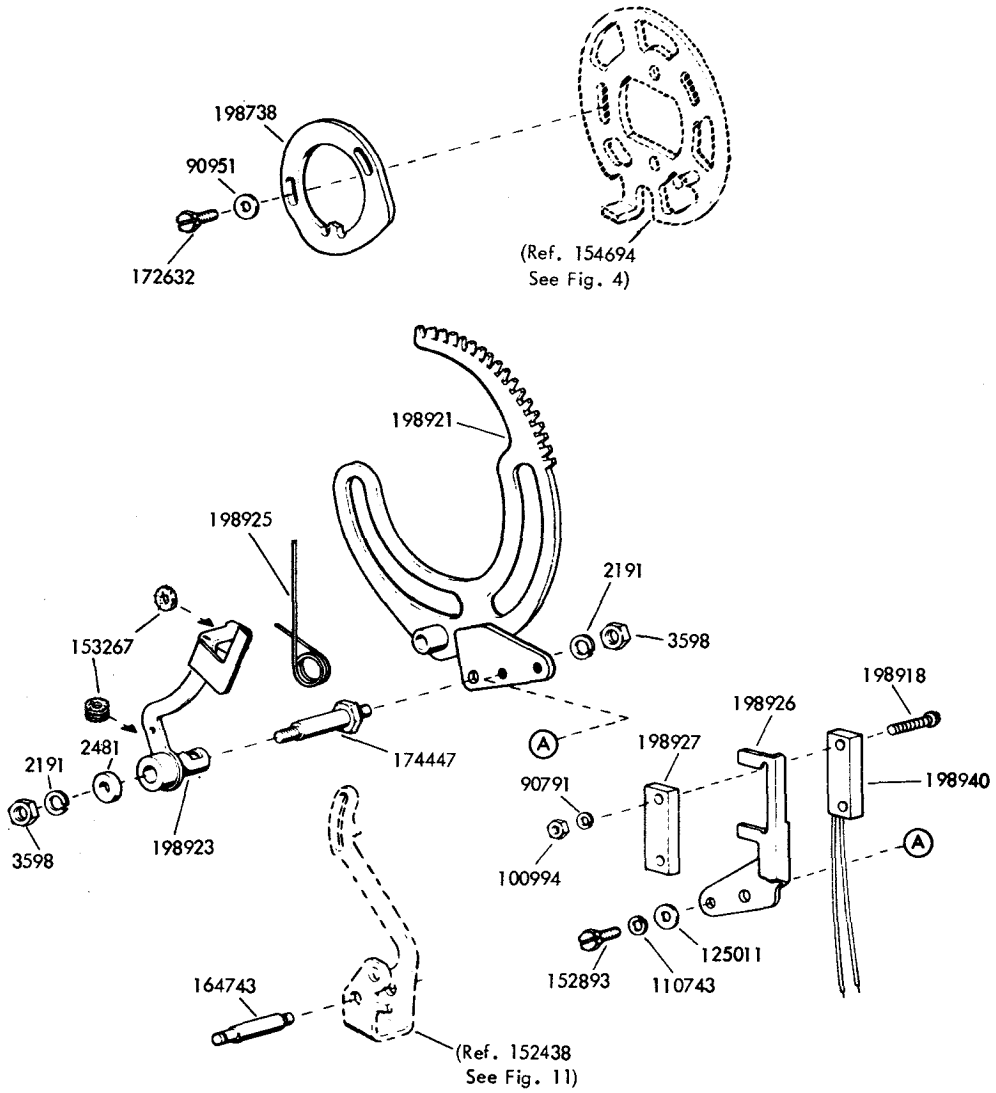
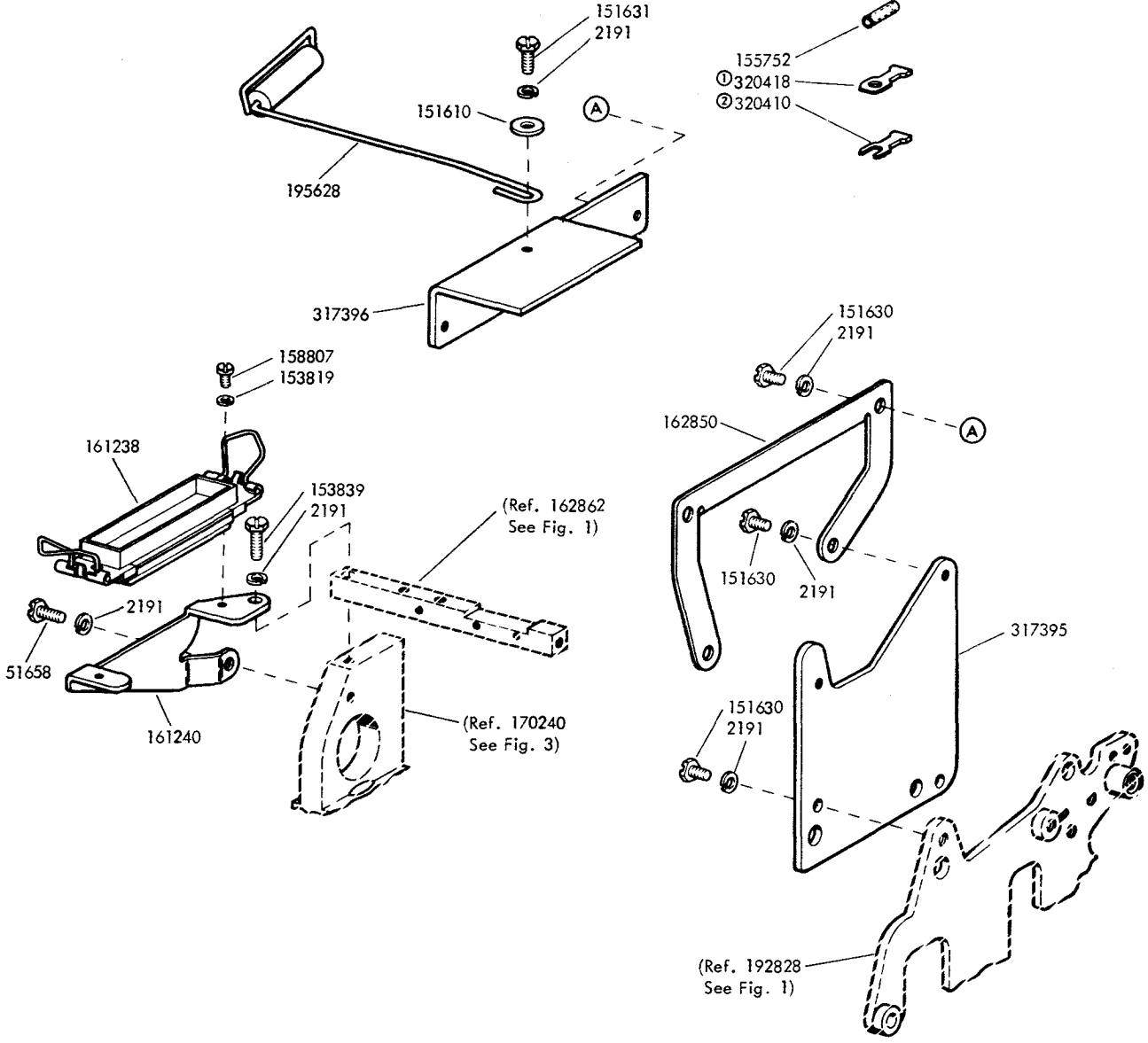


FIGURE 16. 198760 TIMING CONTACT ASSEMBLY







- ① 162207 Cable w/ Terminals
- ② 162064 Cable w/ Terminals

FIGURE 19. COMPONENTS FOR QUICK DISCONNECT FEATURE

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
224M	Coil Magnet 14	110743	Washer, Lock 2, 3, 5, 6, 7, 8, 9, 11 to 18	151694	Screw, 6-40 x 11/32 Fil 18
254M	Coil, Magnet 13			151701	Spring, Torsion 11
271M	Coil Magnet 13	112626	Nut, 10-32 Hex 12	151714	Spring 11
1036	Nut, 6-40 Hex 6	115941	Washer, Flat 4	151721	Screw, 6-40 x 3/4 Hex 4, 14
2034	Washer, Flat 2, 11, 14	119647	Ring, Retaining 6	151722	Screw, 6-40 x 3/16 Hex 6, 14, 16
2191	Washer, Lock 2 to 7, 9 to 19	119648	Ring, Retaining 6, 10, 12, 14, 15	151728	Spring 5
2438	Washer, Flat 13			151734	Screw, 4-40 x 3/8 Hex 3
2481	Washer, Flat 17, 18	119649	Ring, Retaining 6, 14, 18	151737	Screw, 4-40 x 11/64 Hex 5, 14, 18
2539	Nut, 3/8-32 Hex 3	119650	Ring, Retaining 9, 16		
2669	Washer, Lock 10, 12	119651	Ring, Retaining 2, 14, 15		
3598	Nut, 6-40 Hex 2, 3, 4, 6, 7, 9, 10, 11, 14, 16, 17	119652	Ring, Retaining 2, 3, 6, 9, 12, 16	151880	Nut, 4-40 Hex 16
				152400	Plate, Selector Mounting 11, 13, 16
3599	Nut, 4-40 Hex 3, 7, 11, 13, 14	119654	Ring, Retaining 5	152406	Bracket, Spring 11
		121242	Clamp, 1/8 ID Cable 11	152407	Lever, Spacing Lock 11
3603	Nut, 1/4-32 Hex 4	121243	Clamp, 3/16 ID Cable 11	152409	Lever, Selecting 11
3640	Washer, Lock 2, 5, 8, 14, 18	121551	Screw, 8-32 x 1/4 Hex 3	152411	Lever, Push 11
		124177	Washer, Lock 6, 10, 12	152412	Link 11, 13
3646	Washer, Lock 3	125011	Washer, Flat 2, 3, 7, 12, 15, 17, 18	152415	Stud, Adjusting 4
3650	Washer, Flat 14			152420	Lamination, Magnet 13
5363	Spring Compression 6	125015	Washer, Flat 9, 13, 14	152421	Bracket, Shield Mounting 13
7002	Washer, Flat 2, 3, 6, 7, 9, 10, 11, 14, 16, 18	125231	Nut, 10-32 Hex 10	152423	Bracket, Armature Stop Mounting 13
		128357	Spring 3	152427	Latch w/Hub 12
8330	Washer, Flat 2, 4, 9, 12, 14, 15	135716	Ring, Retaining 9	152425	Post, Spring 13
		139752	Spring 2	152426	Nut, 6-40 Self-Locking 13
41382	Spring 6, 12	150000	Screw, 4-40 x 11/64 Fil 2, 3	152429	Rack, Sector 12
41543	Bearing, Ball 4	150001	Drum, Clutch 5	152428	Bail, Stop Arm 12, 17
41732	Plate, Clamp 18	150013	Drum, Clutch 5	152441	Washer, Flat 12
42823	Disk, Adjusting 5	150026	Disk, Adjusting 5	152445	Spring Compression 12
49084	Lever, Shoe Release 5	150029	Lever, Shoe Release 5	152458	Shield, Terminal 13
55063	Wick, Felt 5	150040	Wick, Felt 5	152634	Washer, Flat 9
70878	Spring 18	150043	Screw, 6-40 x 5/8 Fil 5	152891	Spring 11
71437	Spring 14	150044	Shoe, Secondary Clutch 5	152893	Screw, 4-40 x 1/4 Hex 2, 3, 5, 6, 7, 8, 9, 11, 14, 17, 18
73175	Washer, Flat 9	150048	Shoe, Primary Clutch 5		
73611	Washer, Lock 3	150089	Spring 2, 3	153239	Roller 10
74283	Wick, Felt 18	150241	Screw, 4-40 x 1/2 Fil 13	153267	Washer, Felt 17
74727	Washer, Spring 12	150241	Spring 2, 3, 5	153489	Detent 12
76081	Terminal, Contact 18	150355	Lever, Latch 2	153537	Screw, 6-40 x 9/32 Hex 16
76099	Washer, Flat 2, 13	150356	Lever, Trip 2	153538	Screw, 6-40 x 7/16 Hex 7
76295	Washer, Flat 13	150923	Washer, Felt 9	153817	Screw, 4-40 x 3/8 Hex 15
76295	Spring 3	150978	Washer, Felt 9	153819	Washer, Lock 18, 19
78103	Screw, 6-40 x 1-3/16 Hex 3	150978	Screw, 6-40 x 1-1/8 Fil 13	153839	Screw, 6-40 x 5/8 Hex 2, 9, 19
79012	Insulator 13	151073	Screw, 4-40 x 5/32 Fil 2, 3, 8, 15, 18	154215	Spring 9
80755	Bushing, Insulating 18	151103	Spring 11	154241	Stud 10
80945	Spring 3	151152	Screw, 4-40 x 3/16 Hex 2, 3, 8, 14, 18	154242	Screw, 6-40 x 5/16 Hex 10
81731	Spring 3			154349	Spring 11
81778	Screw, 4-40 x 3/16 Fil 13	151222	Washer, Felt 9	154396	Cam w/Pin 5
82548	Insulator, .062" Thk 18	151246	Washer, Flat 5	154398	Bearing, Needle 5
84575	Spring 14	151362	Wick, Felt 10	154694	Disk, Clutch Cam 5, 17
86304	Spring 15	151416	Nut, 6-40 Hex 6, 9	154698	Wick, Felt 6
86774	Screw, 6-40 Shoulder 3	151442	Screw, 6-40 x 1/2 Hex 4, 11, 14, 16	155096	Plate, Range Finder Mounting 12
87401	Spring 2			155752	Sleeve, 5/64 ID x 1/2" Lg Insulating 19
90361	Washer, Felt 9	151603	Spacer 13	155995	Screw, 6-40 Shoulder 4
90560	Washer, Flat 8, 15	151610	Washer, Flat 19	156009	Post, Slide 9
90573	Spring 10	151629	Nut, 6-40 Lug 2, 9	156013	Screw, 4-40 Spl 9
90790	Washer, Flat 14	151630	Screw, 6-40 x 1/4 Hex 2, 3, 6, 11, 14, 18, 19	156015	Plate, Spring 9
90791	Washer, Lock 3, 6, 17			156016	Link, Front Drag 9
90951	Washer, Lock 17	151631	Screw, 6-40 x 5/16 Hex 2, 3, 4, 10, 11, 13, 15, 19	156017	Shaft, Eccentric 9
91120	Spring 6	151632	Screw, 6-40 x 3/8 Hex 5, 7, 10, 14, 16, 18	156019	Washer, Felt 6
93108	Washer, Lock 4			156024	Plate, Rear 6, 7, 9
93356	Washer, Felt 2, 6	151637	Screw, 4-40 x 1/4 Fil 7	156042	Post, Spacing 6
96717	Screw, 4-40 Shoulder 11	151639	Washer, Flat 3	156043	Bushing 9
98212	Post, Spring 3	151657	Screw, 6-40 x 1/4 Fil 2, 3, 12	156047	Spring, Torsion 6
100994	Nut, 2-56 Hex 17				
104807	Washer, Flat 8	151658	Screw, 6-40 x 5/16 Fil 4, 19		
104824	Spring 13	151686	Screw, 4-40 x 3/8 Fil 13		
110434	Screw, 4-40 x 3/16 Fil 11, 12	151688	Screw, 4-40 x 5/8 Fil 18		
110446	Nut, 2-56 Hex 3				

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
156050	Stud, Eccentric 6	159560	Spring 7	164743	Shaft 17
156051	Bushing, Eccentric 9	159565	Bracket w/Post 18	164851	Wheel, Feed 6
156052	Shoe, Tape 6	159568	Bracket, Contact 18	170124	Lubricator Assembly 11
156054	Lever, Detent 6	159570	Spring, Contact 18	170125	Lever, Shoe Release 5
156055	Wheel, Die 6	159571	Stiffener 18	170193	Guard, Back Space 15
156058	Link, Rear 9	159575	Bracket, Stop 18	170196	Modification Kit 1, 14, 15
156060	Shaft, Eccentric 9	159578	Bail, Front Contact 18	170198	Arm, Stop 12
156061	Arm, Tape Shoe 6	159579	Bail, Rear Contact 18	170199	Bracket, Anchor 6
156062	Post, Pivot 6	159580	Shaft, Actuating Bail 18	170201	Shaft w/Bearing 5
156067	Guide, Slide Post 9	159601	Bracket, Spring 18	170202	Post, Guide 2, 3
156069	Plate 7	159625	Bracket, Bail Guide 10	170203	Lever, Slide Trip 2, 3
156070	Bail, Toggle 9	159819	Connector, 32 Pt Plug 16	170204	Bracket, Spring 2
156090	Screw, 6-40 Adjusting 6	159880	Slide 11	170206	Post, Guide 9
156093	Washer, Felt 9	159901	Plate w/Post 15	170210	Block Assembly, Punch 8
156094	Link, Front 9	159903	Bellcrank 15	170211	Arm, Rocker 9
156095	Bushing 9	159909	Pawl, Feed 15	170215	Spring, Punch Block 8
156099	Link, Rear Drag 9	159911	Plate 15	170216	Plate, Front 6, 8, 14, 15
156103	Strip, Felt 9	159913	Screw, 6-40 Eccentric 15	170217	Post 6
156162	Washer, Flat 9	159955	Link, Drive 14	170218	Shaft, Feed Wheel 6
156165	Washer, Felt 2, 9	159954	Link, Adjusting 14	170219	Stud, Die Wheel 6
156169	Washer, Felt 9	159956	Post 14	170220	Guide, Tape 6
156173	Stud 7	159957	Link 14	170225	Block, Tape Guide 7
156248	Latch 2, 3	159958	Latch 14	170230	Knob 12
156257	Bracket 2	159959	Extension 14	170231	Guide, Upper 11
156267	Lever, Trip 3	159960	Eccentric 14	170232	Guide, Lower 11
156318	Lever, Reset 2	159961	Arm, Eccentric 14	170233	Stud 11, 12
156366	Shaft, Rocker Bail 10	159962	Ring, Retaining 14	170234	Bracket, Guide 11
156387	Lever, Trip 2	159963	Hub 14	170235	Bracket, Spring 11
156388	Lever, Adjusting 2	159965	Arm, Adjusting 14	170236	Lever 11
156403	Disk, Bearing 5	159973	Bracket w/Bushing 14	170237	Lever, Start 11
156412	Link, Drive 10	159974	Eccentric 14	170238	Bail, Reset 11
156465	Washer, Spring 5	159975	Bail, Armature 14	170240	Frame 2, 4, 5, 10, 19
156472	Post, Spring 2	159976	Armature 14	170241	Screw, 6-40 Adjusting 6
156536	Screw, 4-40 x 1/8 Fil 11	159977	Hinge 14	170242	Slide, Feed Hole Punch 7
156572	Washer, Felt 18	159978	Shaft 14	170244	Wheel, Die 6
156576	Washer, Felt 10	159979	Arm, Non-Repeat 14	170246	Slide w/Insulator 7
156577	Roller, Detent Lever 6	159980	Post, Spring 14	170247	Guide 7
156880	Jumper, 2-3/8" Black 13	159987	Bracket, Guide 15	170264	Post, Guide 2, 3
156881	Jumper, 1-1/2" Black 13	160180	Armature w/Extension 13	171555	Connector, 50 Pt Receptacle 18
156921	Guide, Adjusting Lever 10	160182	Bracket w/Button 13	172632	Screw, 4-40 x 3/16 Hex 17
156988	Race, Outer 10	160184	Plate, Stop 13	172893	Plate Assembly, Front 9
156989	Bearing 10	160185	Post 18	172984	Cover, Gear 8
156990	Race, Inner 10	160186	Bushing, Shoulder 13	172993	Spring 8
156994	Strip, Felt 10	160672	Stud 15	173340	Collar 5
156995	Post 10	160674	Nut, 6-40 Shoulder 15	174447	Post 17
156998	Retainer, Roller 10	160944	Washer, Felt 18	176266	Spring, Torsion 2
157194	Retainer, Spring 13	160948	Screw, 2-56 Spl 6	176490	Bracket w/Hub 2
157237	Shield, Terminal 13	160997	Roller 18	176647	Latch w/Hub 14
157261	Shaft, Stop Arm 12	160998	Pad, Base 18	179573	Nut, 6-40 Hex 9
158171	Shaft w/Bearing 4	161100	Spring, Contact 18	182909	Spring 11
158745	Clamp, Bearing 4	161102	Spring, Contact 18	192246	Extension, Chad Chute 8
158760	Post, Spring 14	161107	Stud 6	192493	Spring 11
158807	Screw, 3-48 x 11/64 Fil 18, 19	161108	Stud 7	192499	Cam, Selector 5
158881	Nut, 6-40 Shoulder 4	161139	Nut, 6-40 Hex 6	192661	Post 10
158893	Post, Spring 3	161238	Connector, 36 Pt Receptacle 19	192709	Link w/Hub 10
158941	Bail, Rocker 10	161240	Bracket, Connector 19	192793	Guard 18
159011	Bracket, Spring 3	161493	Post, Supporting 15	192828	Plate w/Bushing 2, 18, 19
159181	Lubricator 11	162064	Cable w/Terminals 19	193804	Armature 14
159184	Wick, Lubricating 11	162207	Cable w/Terminals 19	193821	Bracket w/Post 14
159185	Retainer, Wick 11	162834	Solenoid, Feed-Out 3	193822	Clamp 14
159341	Bearing, Ball 5	162850	Handle 19	193824	Latch w/Hub 14
159381	Modification Kit 1, 18	162862	Bar, Mounting 2, 18, 19	193825	Magnet Assembly 14
159411	Bearing Assembly 10	163015	Pinion, 28T 4	193966	Bracket w/Stud 16
159427	Bracket, Stop 2, 3	163018	Gear, 49T 4	193968	Post 16
159431	Lever, Main Trip 2, 3	163025	Gear Set, 100 WPM 4	193969	Post 16
159467	Holder, Wick 16	164279	Chute, Chad 8	193970	Plate, Clamp 16
159544	Release, Clutch 2	164300	Spacer, .100" Thk 7	193974	Depressor, Tape 16
		164513	Pawl, Feed 9		

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
193976	Bail, Rocker 10	198781	Block Assembly, Punch 8	198917	Switch, Reed 3
193987	Bracket, Roller 16	198782	Post, Roller 3	198918	Screw, 2-56 x 5/8 Fil 3, 17
194117	Plate, Clamp 16	198783	Post, Roller 3	198921	Rack, Sector 17
194118	Spring, Torsion 16	198784	Roller, Tape 3	198923	Lever w/Bushing 17
194122	Platform, Tape 16	198786	Bracket, Connector 18	198925	Spring, Torsion 17
194123	Screw, 4-40 Spl 16	198787	Bracket, Mounting 3	198926	Bracket, Switch Mounting 17
194162	Bail, Reset 9	198788	Lever, Trip 3	198927	Magnet 3, 17
194992	Modification Kit 8	198789	Bail, Latch 3	198940	Switch, Reed 17
194993	Guide, Tape 8	198791	Contact Assembly 18	199506	Gasket 8
195231	Spring, Compression 16	198792	Bracket, Guide 18	305638	Bracket, Guide 9
195233	Roller 16	198793	Bracket, Contact 18	309365	Shaft w/Bearing 5
195240	Post 13	198794	Bail, Solenoid 3	315862	Gear, 59T 4
195251	Armature, Selector 13	198796	Link w/Hub 10	315863	Pinion, 23T 4
195628	Guide, Tape 19	198797	Cable Assembly 18	315866	Gear Set, 114 WPM 4
195634	Modification Kit 13	198798	Chute, Chad 8	317395	Plate 19
195787	Retainer, Chad Chute 8	198835	Contact Assembly 3	317396	Bracket, Stop 19
198738	Cam, Timing 17	198836	Bushing 3	320408	Terminal, Spade Type 13
198739	Plate 3	198837	Bushing 3	320410	Terminal, Spade Type 19
198760	Contact Assembly, Timing 1, 17	198838	Arm 3	320418	Terminal, Ring Type 19
198778	Wheel, Feed 6	198839	Arm, Actuator 3	327120	Post, 16
		198844	Bracket, Switch Mounting 3		

35 ELECTRICAL SERVICE UNIT (LESU)

FOR ASR

PARTS

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Container and Associated Parts	2	18	193485, 197053 and 312351 Constant Current Selector Magnet Driver Assemblies	16
2	Container and Associated Parts (Continued)	3	19	305447 Selector Magnet Driver Assembly with Break Detector	17
3	323055 Relay Plate Assembly	3	20	301725 Relay Assembly	18
4	193467 and 199379 Non-Contention Relay Plate Assemblies	4	21	Mounting Plates for Selector Magnet Driver and Low Level Keyer	19
5	305440 Non-Contention Relay Plate Assembly	5	22	192730 Selector Magnet Driver and 192740 Low Level Keyer	20
6	199360 and 301651 Power Distribution Assemblies	6	23	192730 Selector Magnet Driver and 192740 Low Level Keyer (Continued)	21
7	319257 and 328098 Power Distribution Assemblies	7	24	192750 Rectifier Assembly	22
8	320255 Power Distribution Assembly	8	25	305061 Rectifier and Cable Assembly	23
9	323056 Power Distribution Assembly	9	26	198200 Relay Panel Assembly	24
10	326609 Power Distribution Assembly	10	27	326608 Logic Panel Assembly	25
11	328811 Power Distribution Assembly	11	28	327740 Logic Panel Assembly	26
12	305417 Main Terminal Board Assembly	12	29	312407 Tape Verifier Control Module Assembly	27
13	165708 Motor Control Relay Assembly	13	30	312389 Fixed Word length Control Module Assembly	28
14	199350 Copylight Transformer Assembly	13	31	310738 Panel Assembly	29
15	Mounting Plates	14	32	301782 Connector Plate Assembly	30
16	165736 Signal Regenerator Assembly and 198209 Auxiliary Power Supply for DC Signalling Sets	14	33	Cable Components	31
17	305446 Signal Regenerator Assembly	15		Numerical Index	32

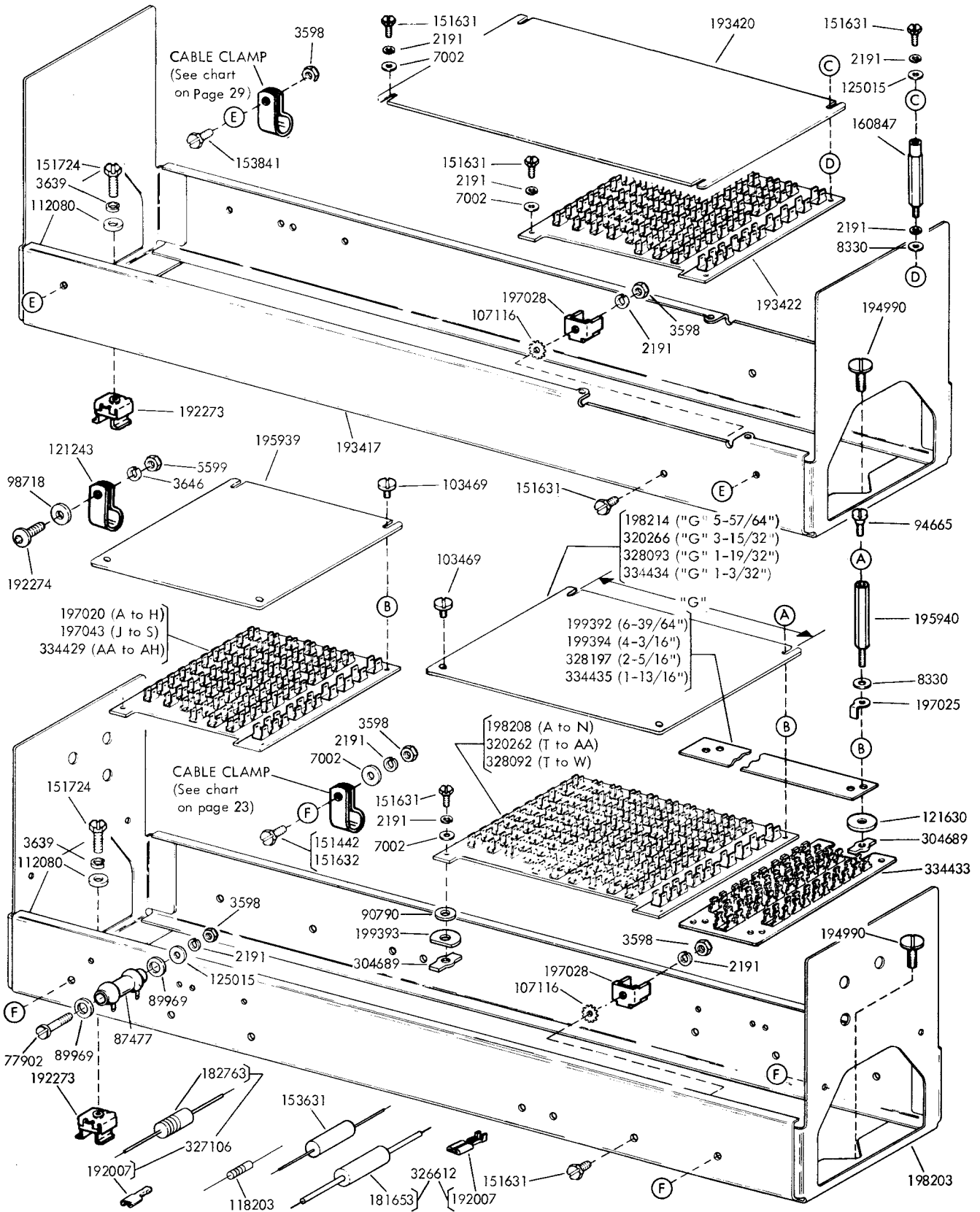


FIGURE 1. CONTAINER AND ASSOCIATED PARTS

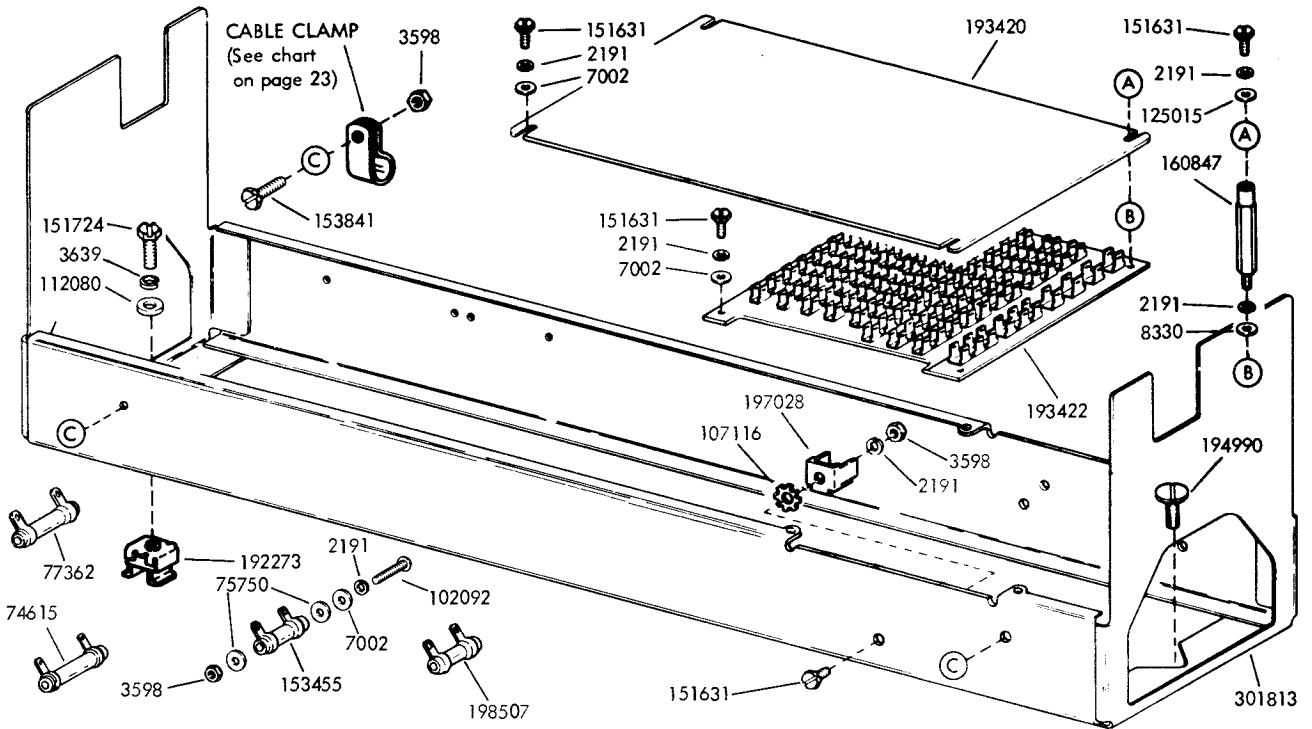


FIGURE 2. CONTAINER AND ASSOCIATED PARTS (Continued)

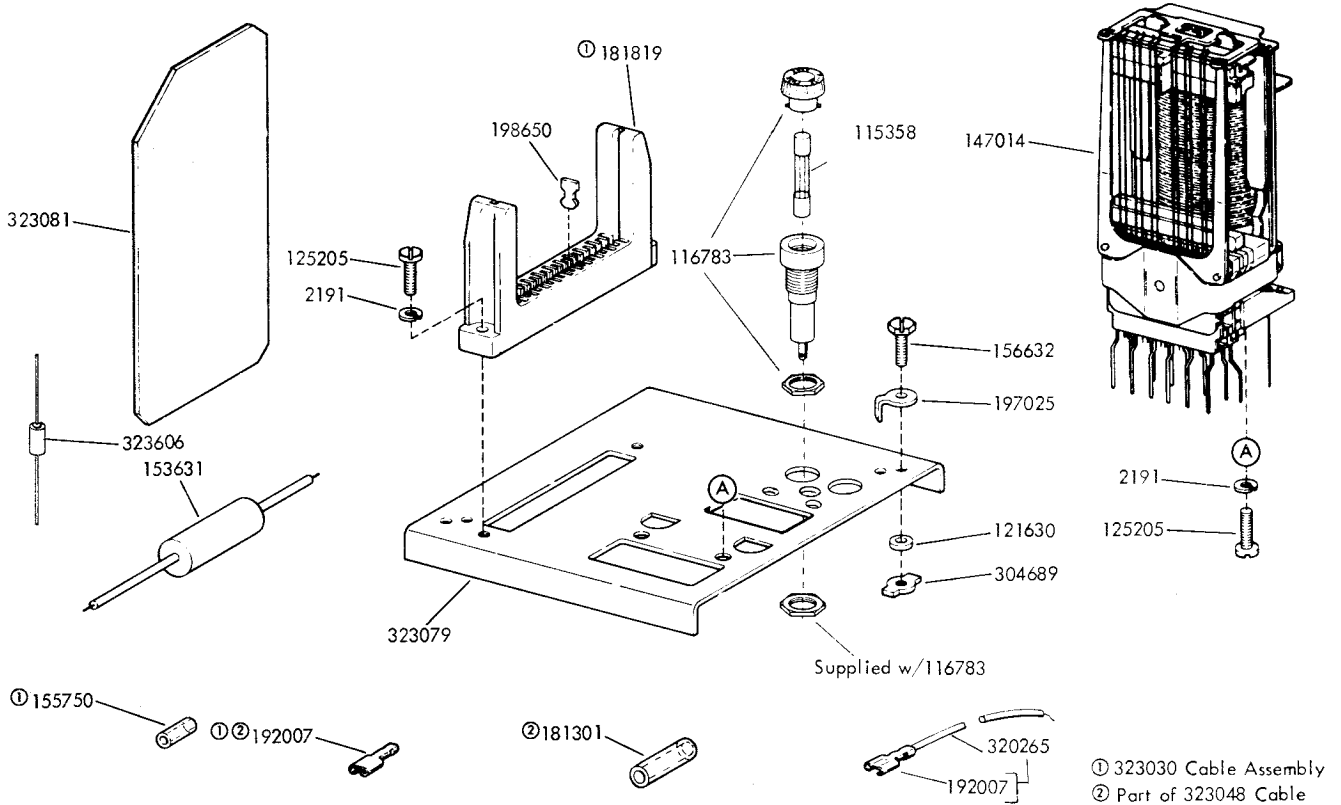


FIGURE 3. 323055 RELAY PLATE ASSEMBLY



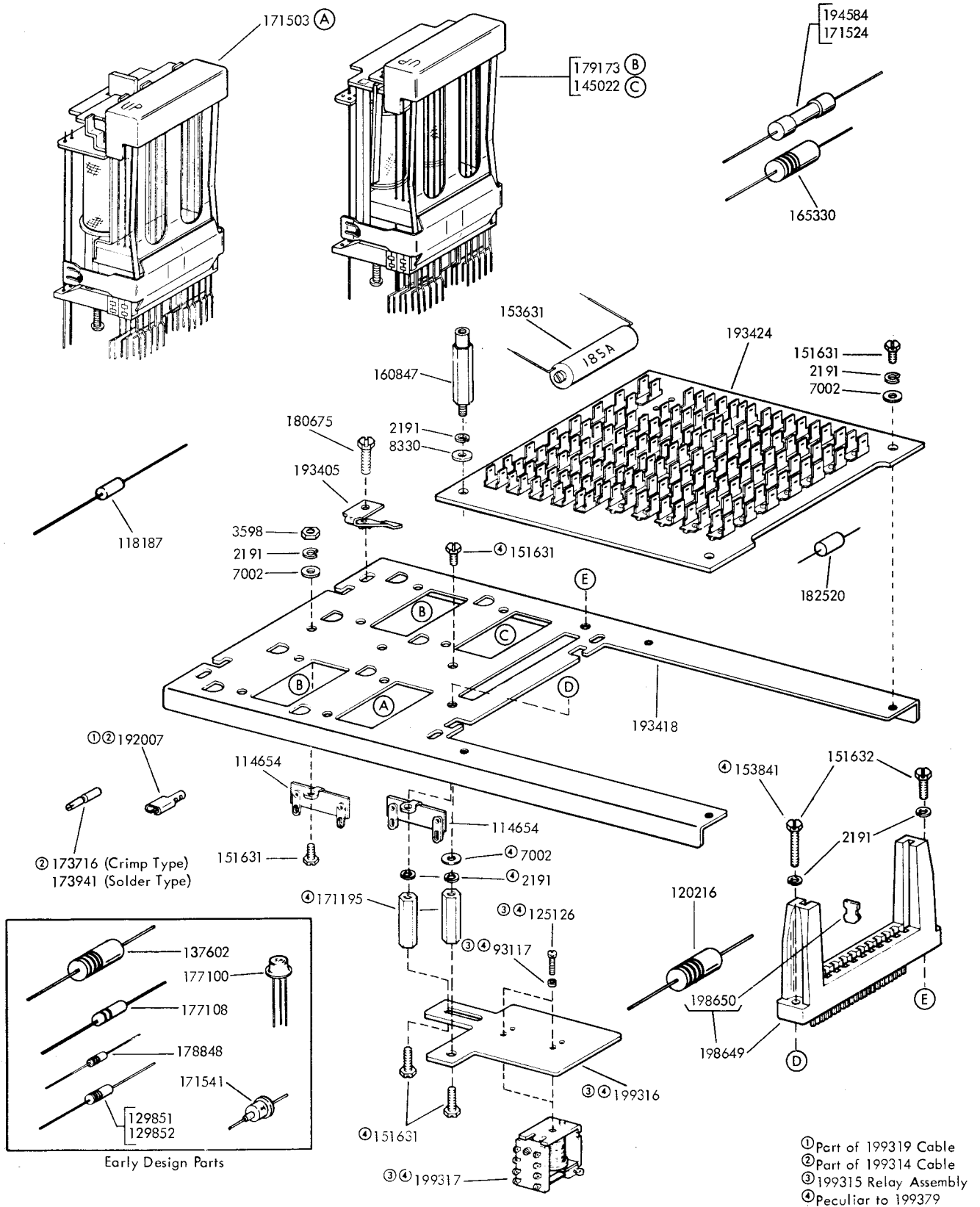
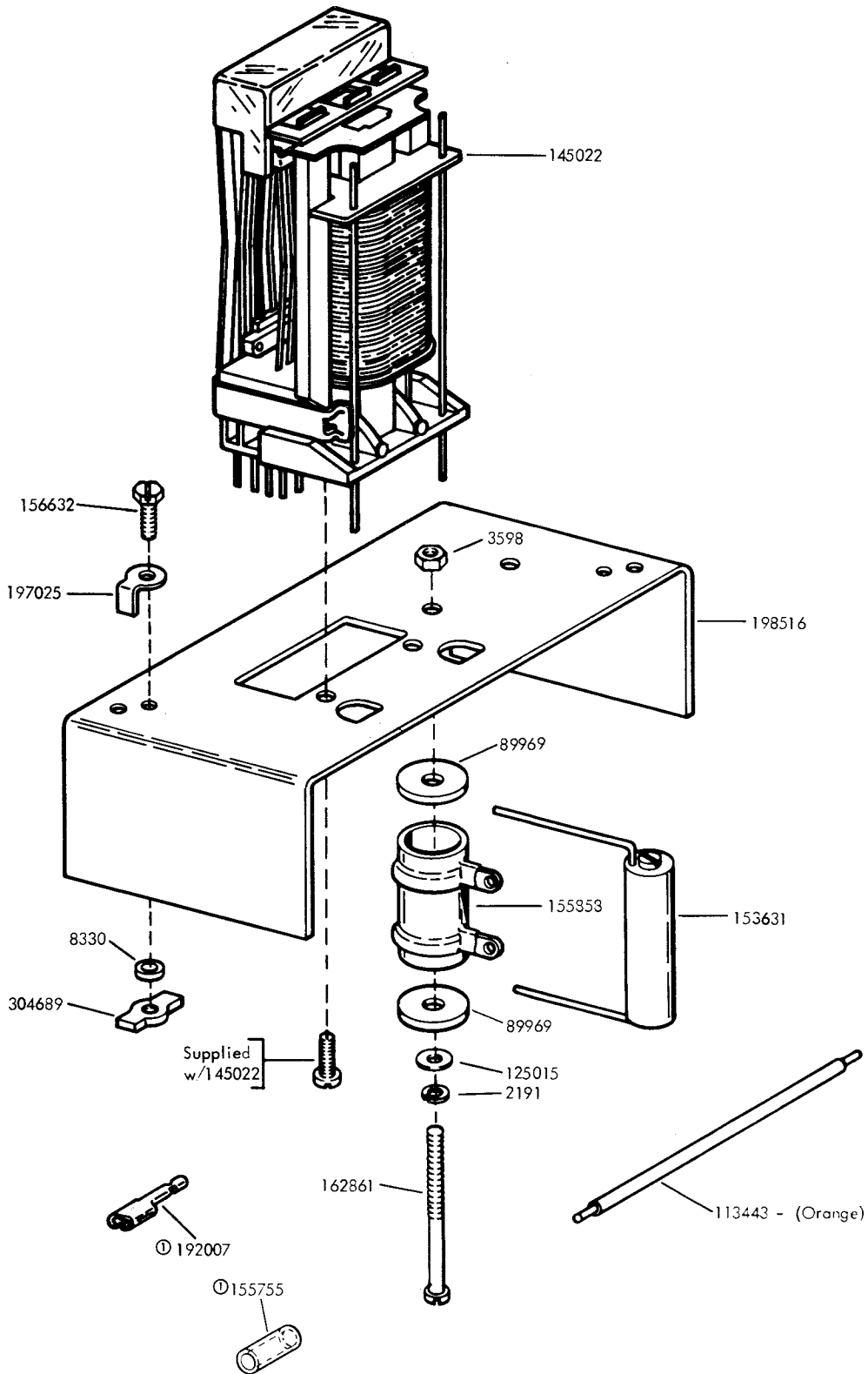


FIGURE 4. 193467 AND 199379 NON-CONTENTION RELAY PLATE ASSEMBLIES



Ⓞ Part of 305441 Cable

FIGURE 5. 305440 NON-CONTENTION RELAY PLATE ASSEMBLY

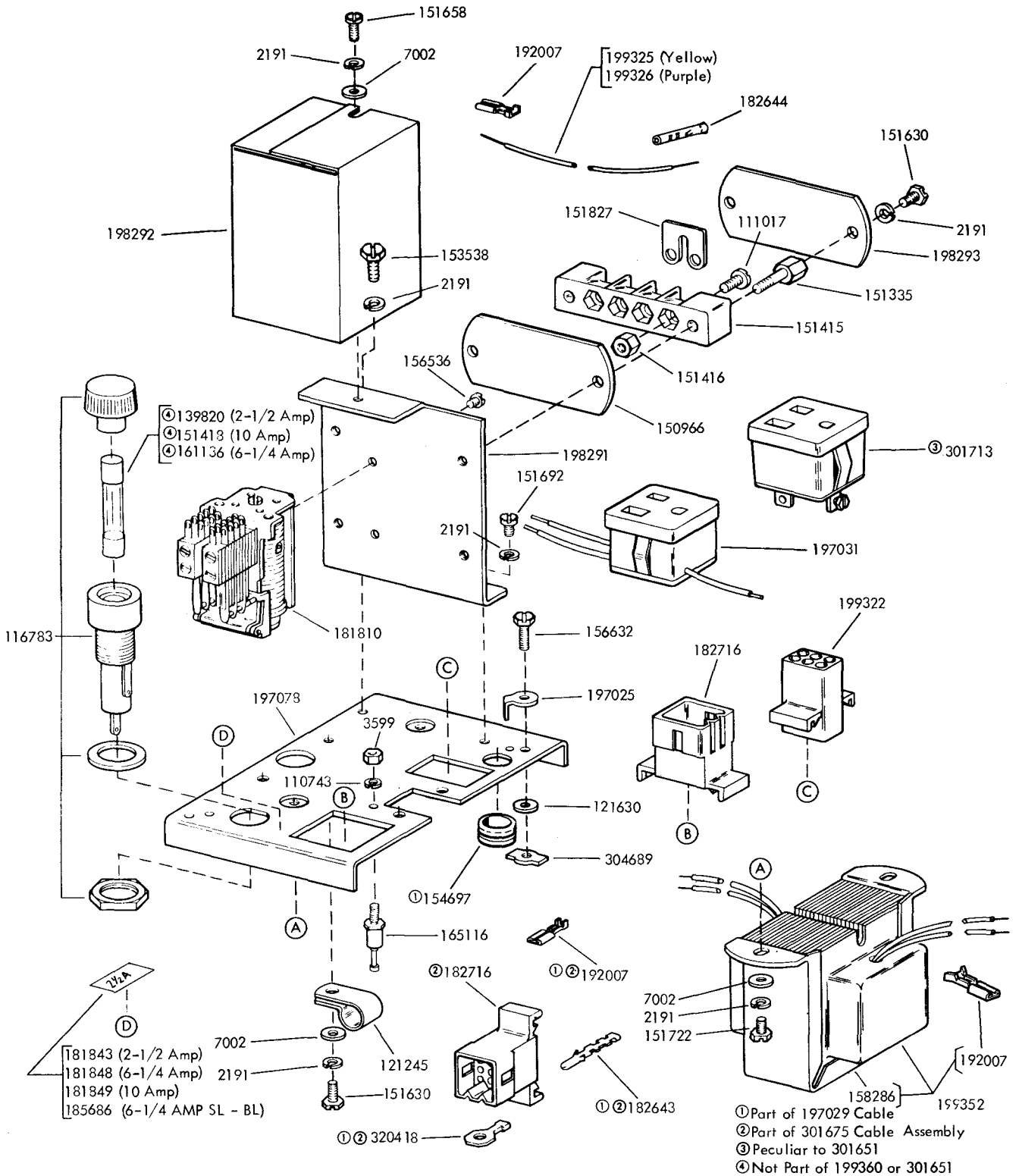


FIGURE 6. 199360 AND 301651 POWER DISTRIBUTION ASSEMBLIES

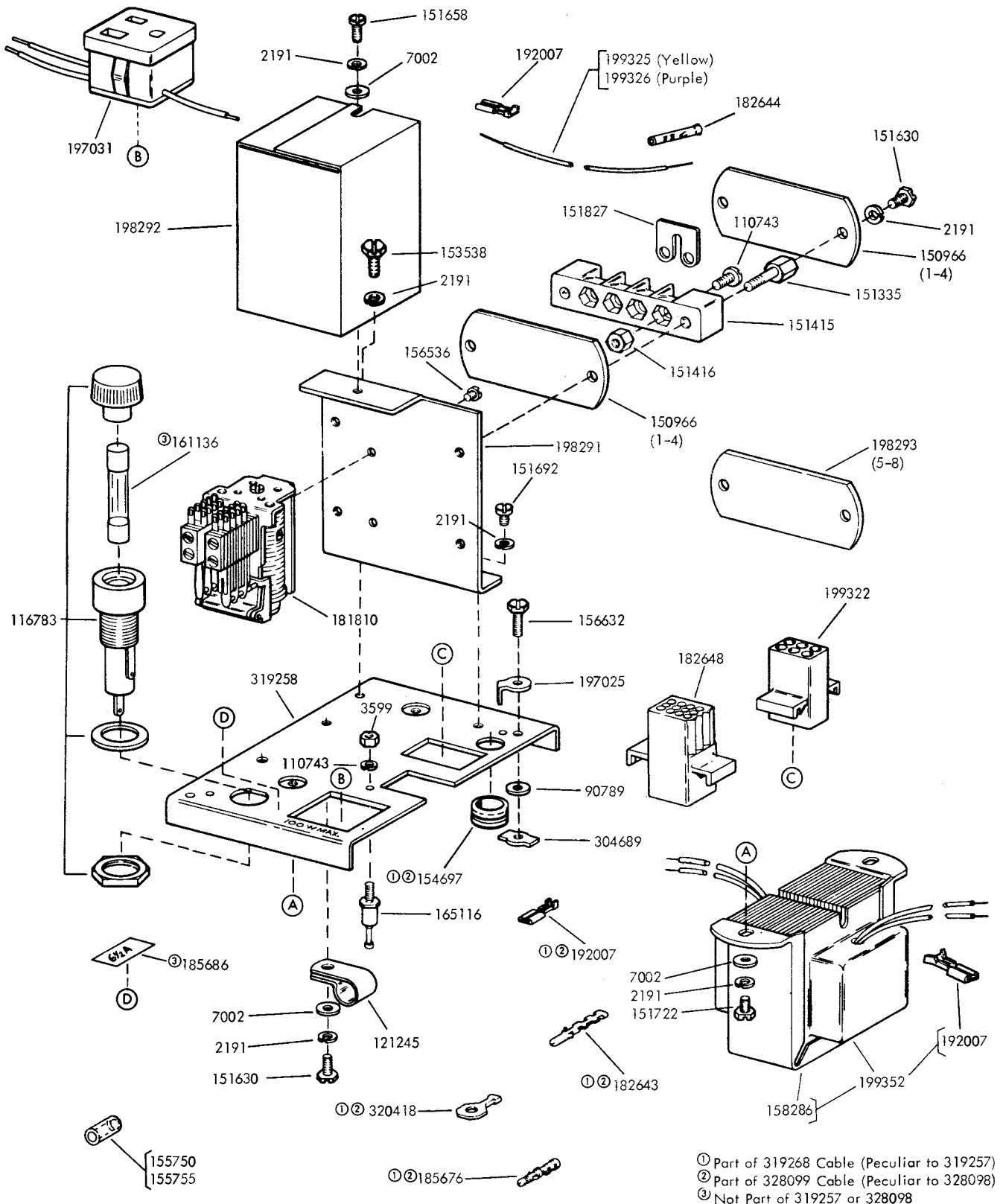


FIGURE 7. 319257 AND 328098 POWER DISTRIBUTION ASSEMBLIES

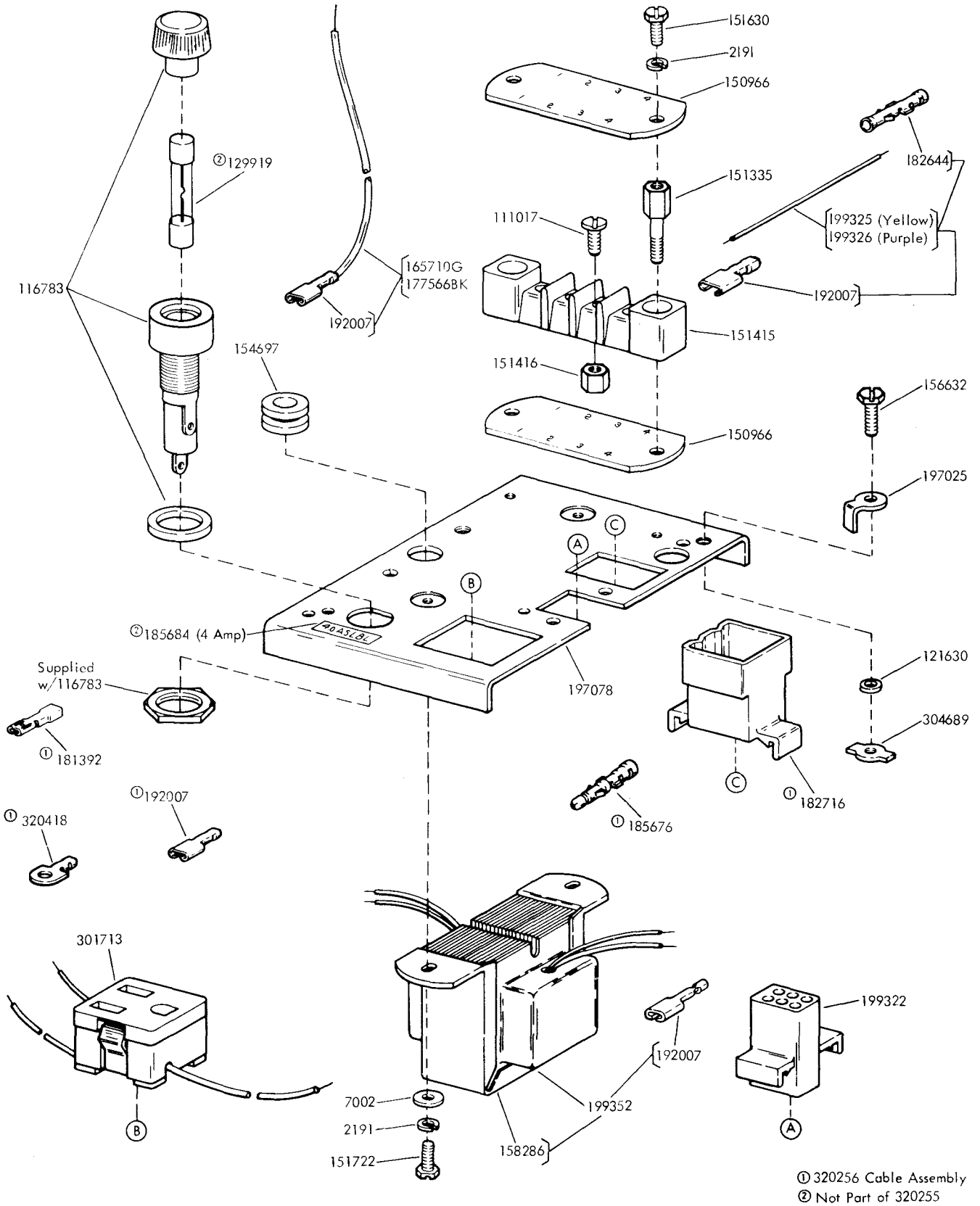


FIGURE 8. 320255 POWER DISTRIBUTION ASSEMBLY

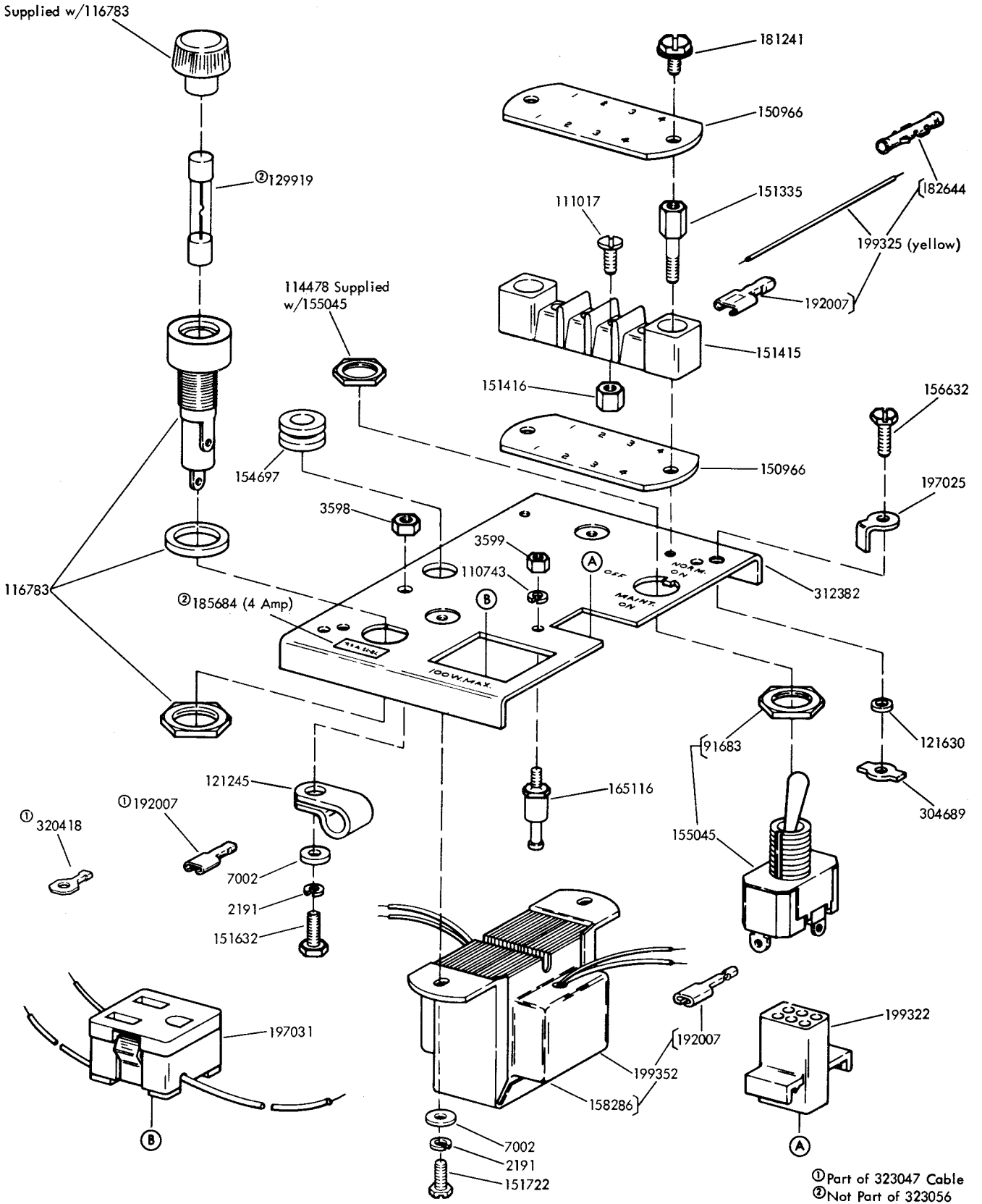


FIGURE 9. 323056 POWER DISTRIBUTION ASSEMBLY

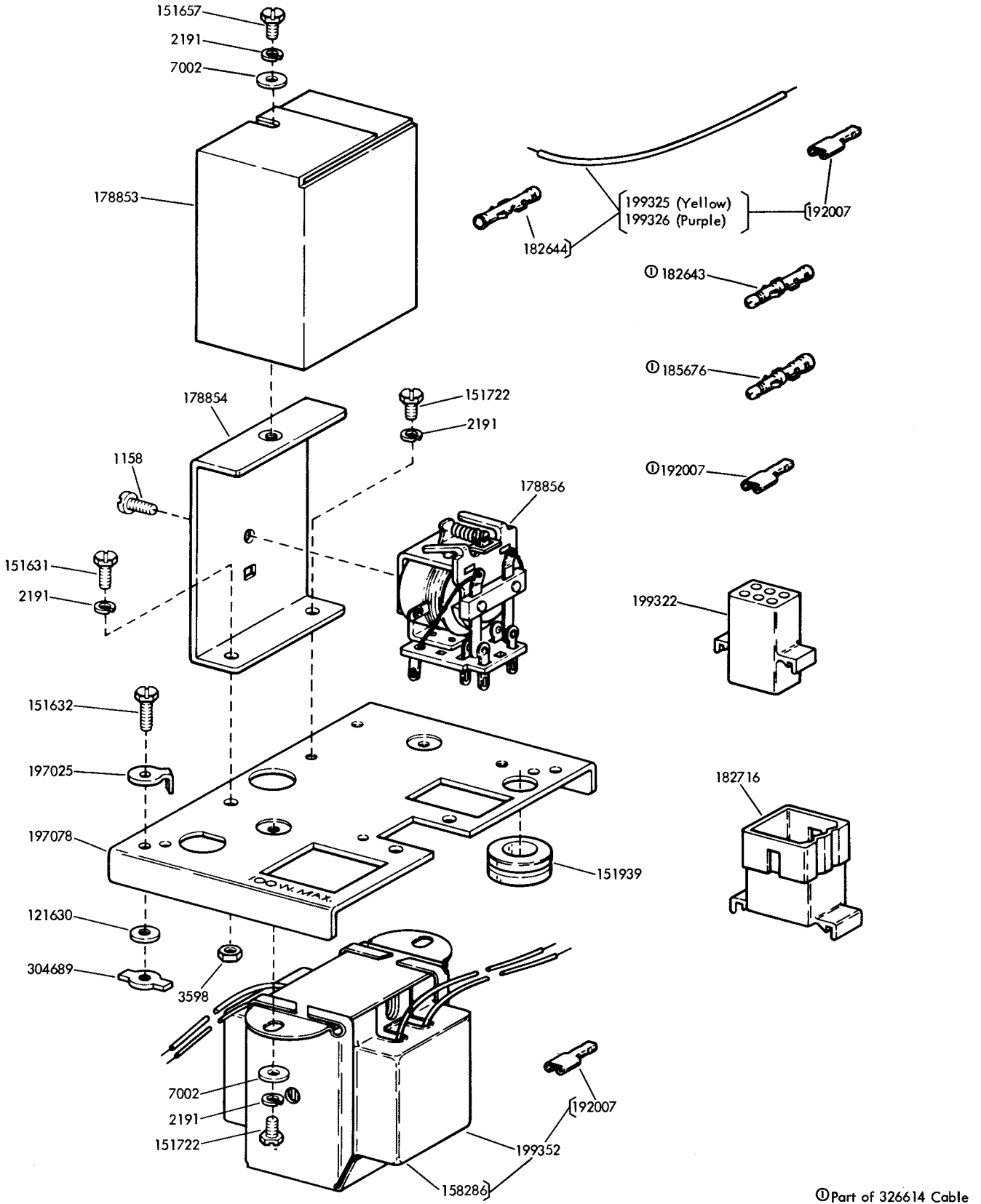


FIGURE 10. 326609 POWER DISTRIBUTION ASSEMBLY

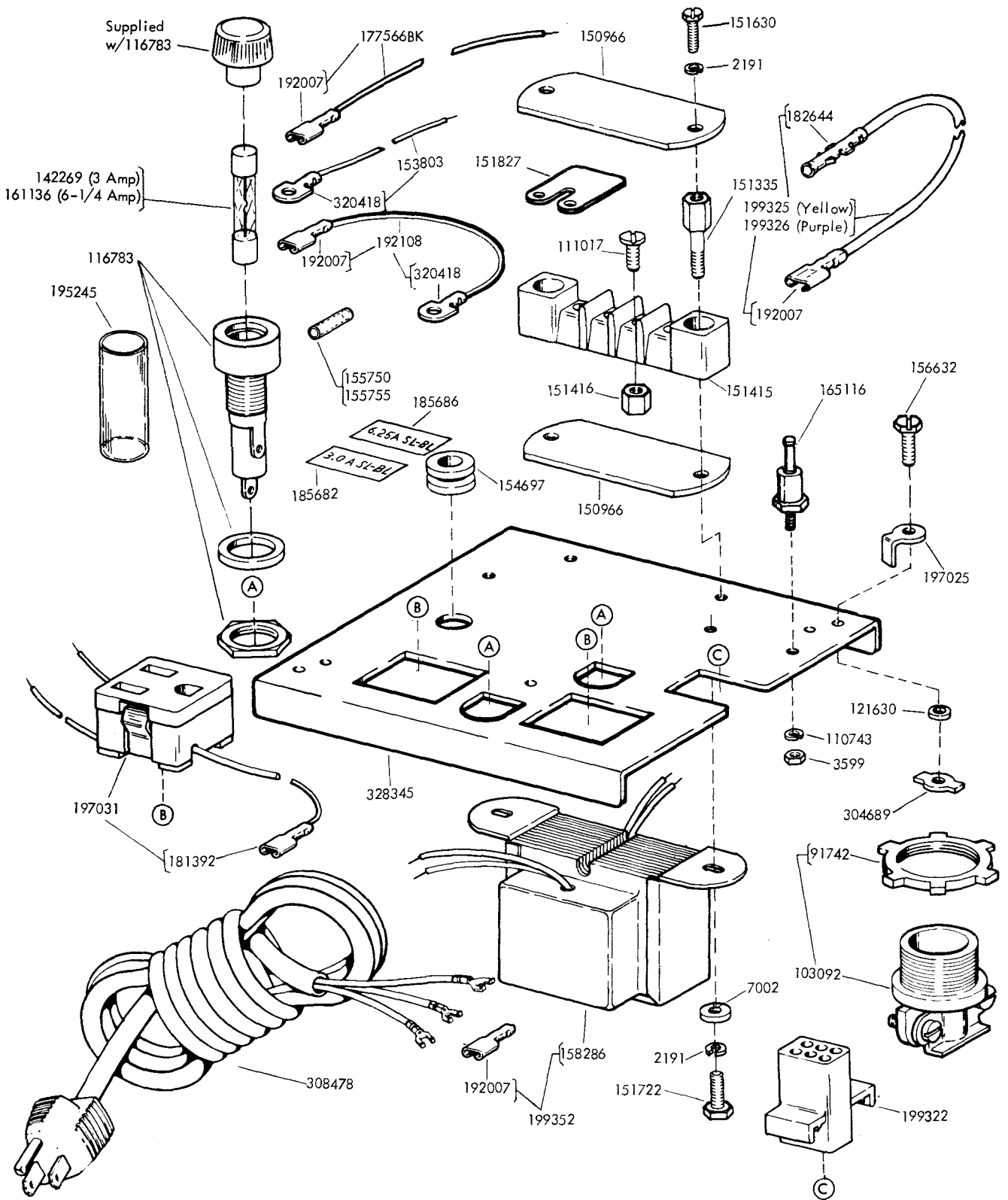


FIGURE 11. 328811 POWER DISTRIBUTION ASSEMBLY



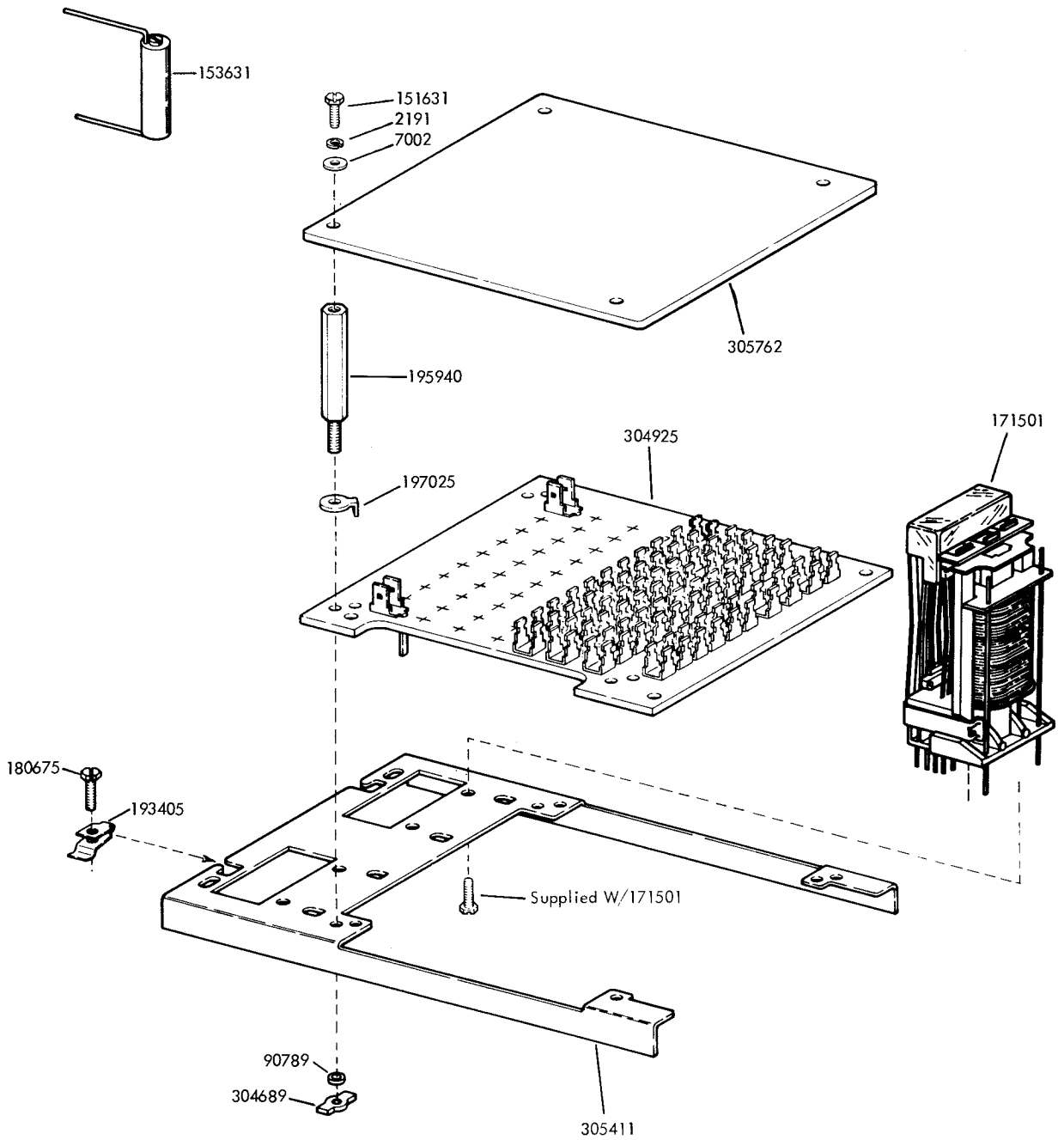


FIGURE 12. 305417 MAIN TERMINAL BOARD ASSEMBLY

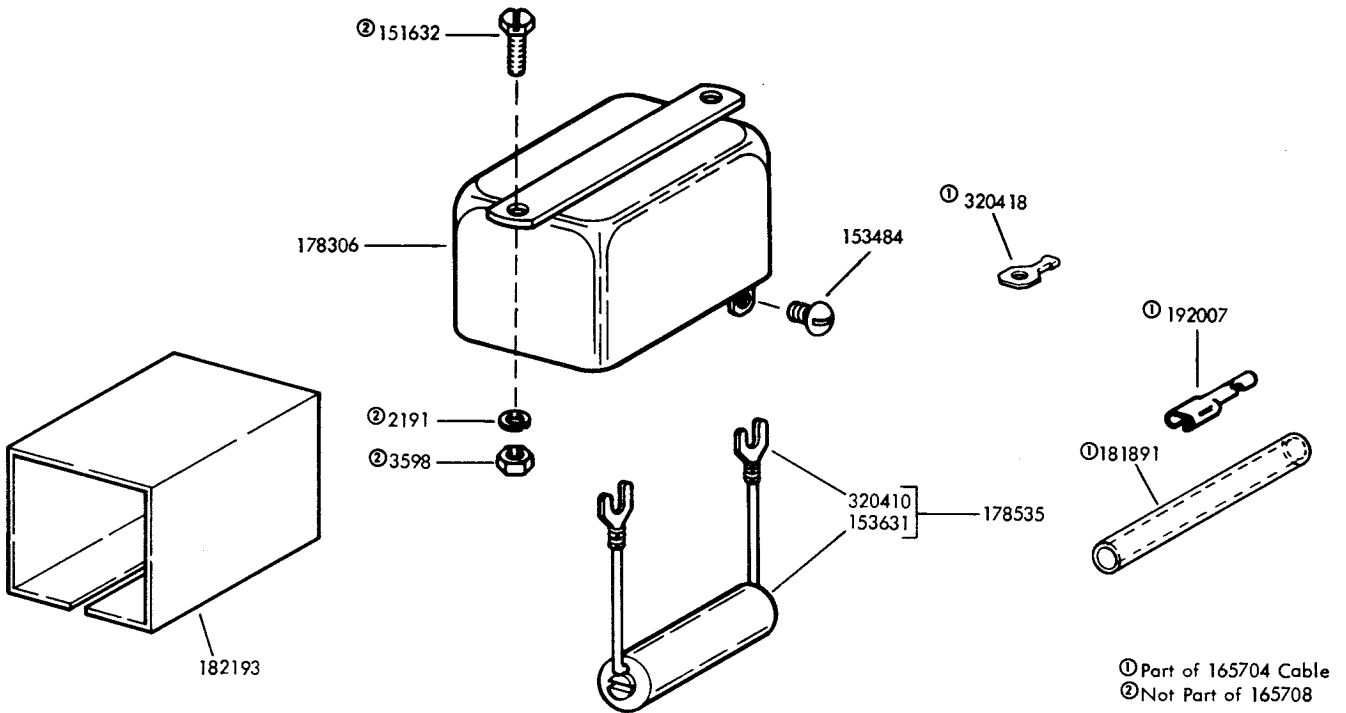


FIGURE 13. 165708 MOTOR CONTROL RELAY ASSEMBLY

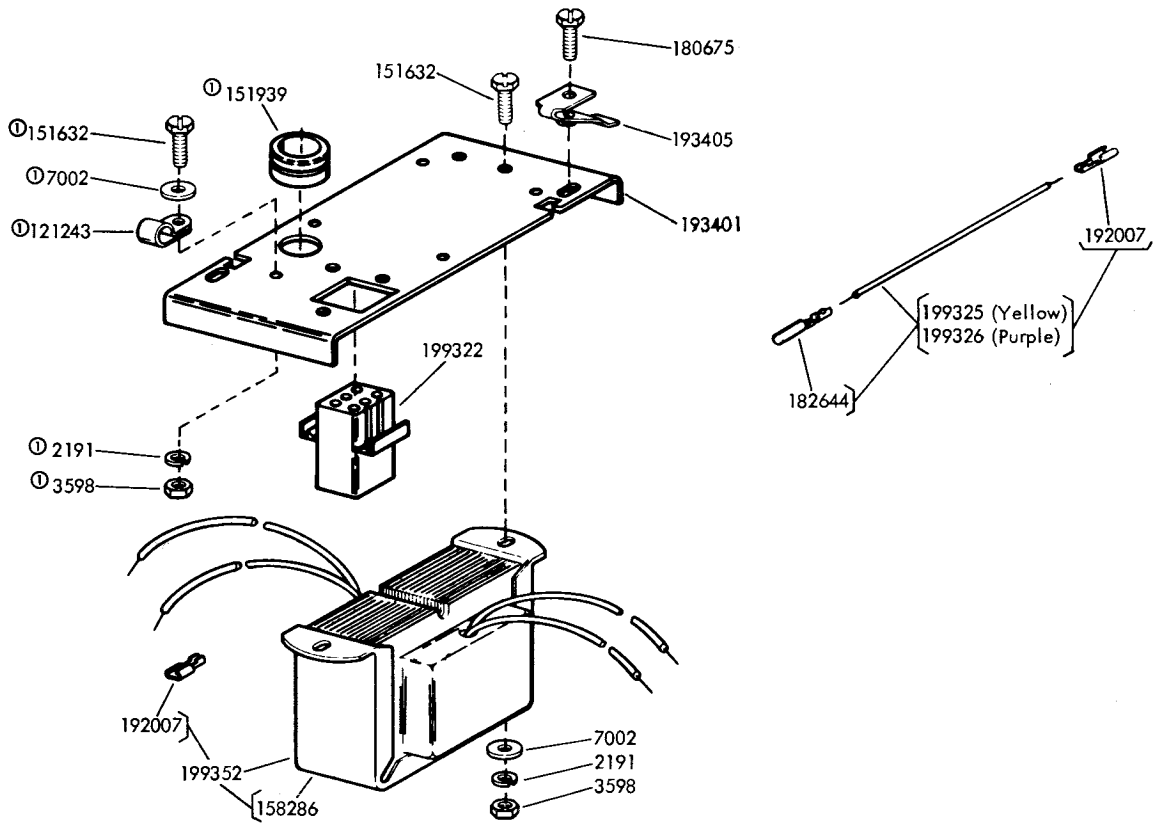


FIGURE 14. 199350 COPYRIGHT TRANSFORMER ASSEMBLY

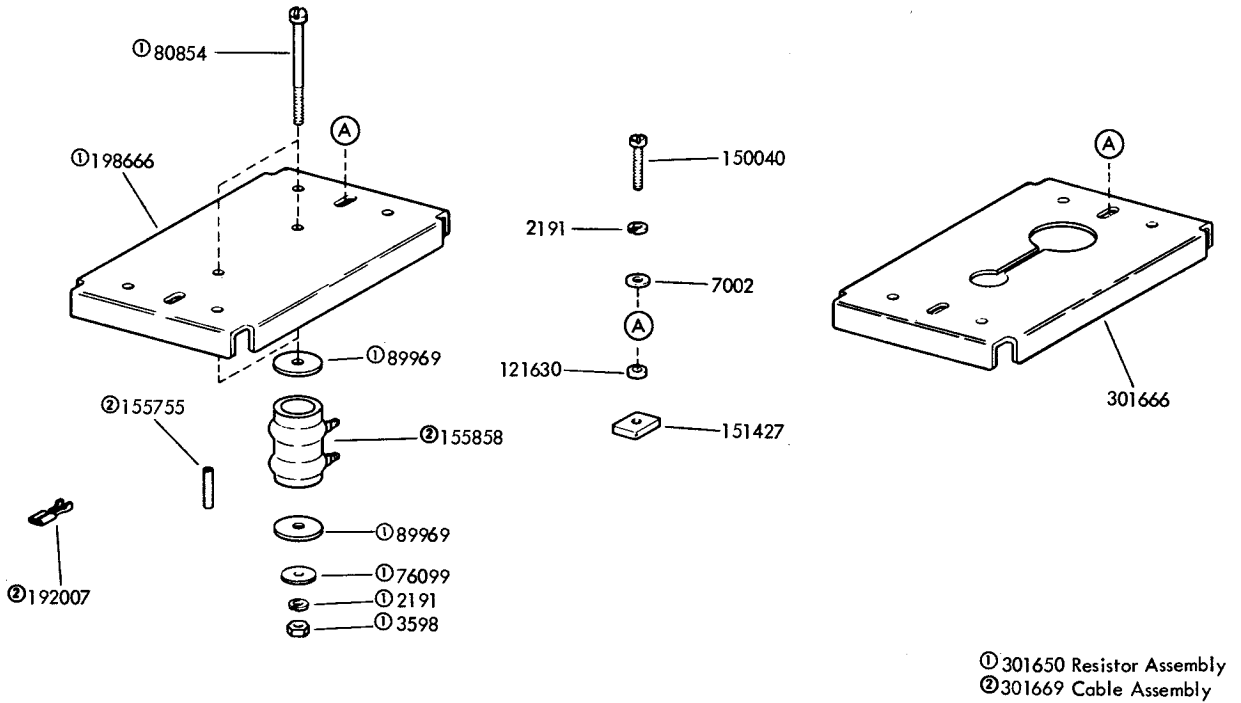


FIGURE 15. MOUNTING PLATES

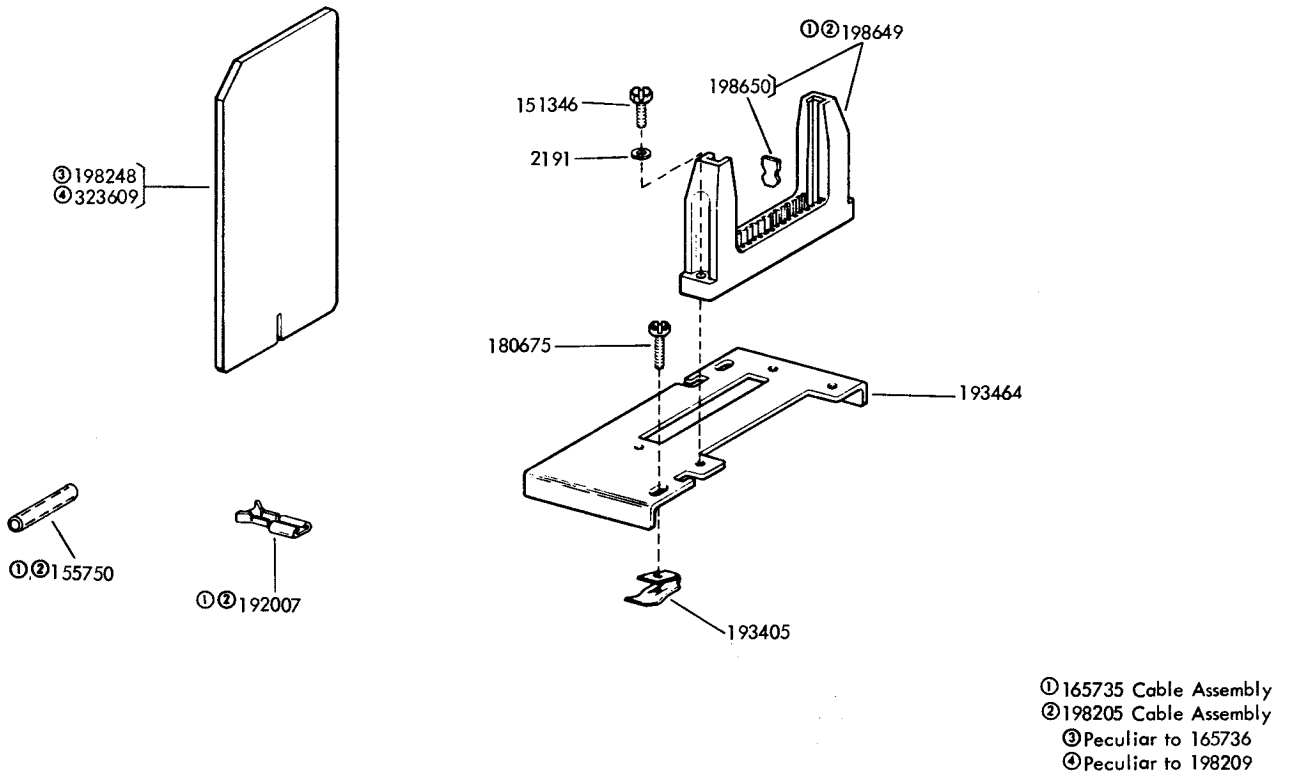


FIGURE 16. 165736 SIGNAL REGENERATOR ASSEMBLY AND 198209 AUXILIARY POWER SUPPLY FOR DC SIGNALLING SETS

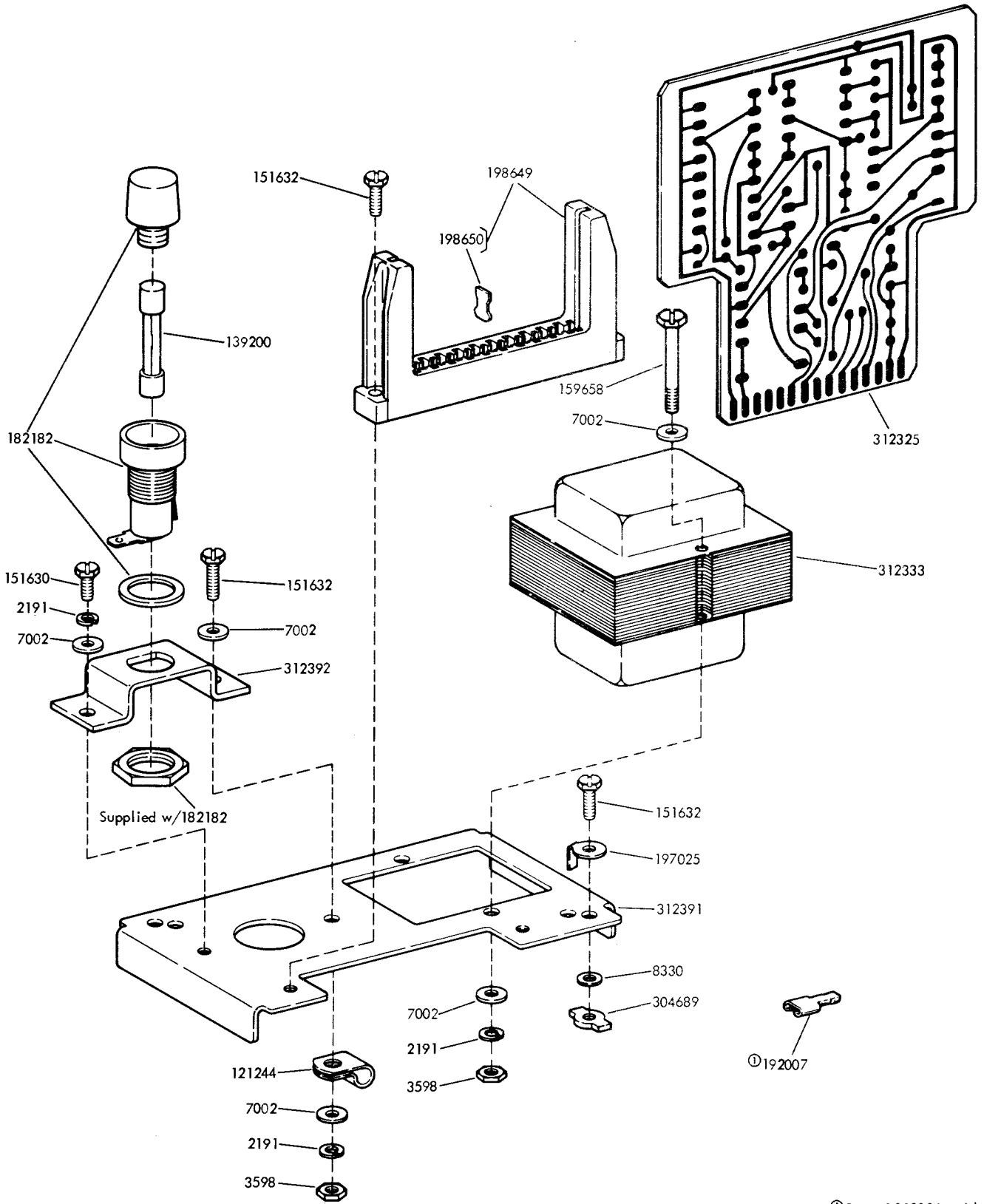


FIGURE 17. 305446 SIGNAL REGENERATOR ASSEMBLY

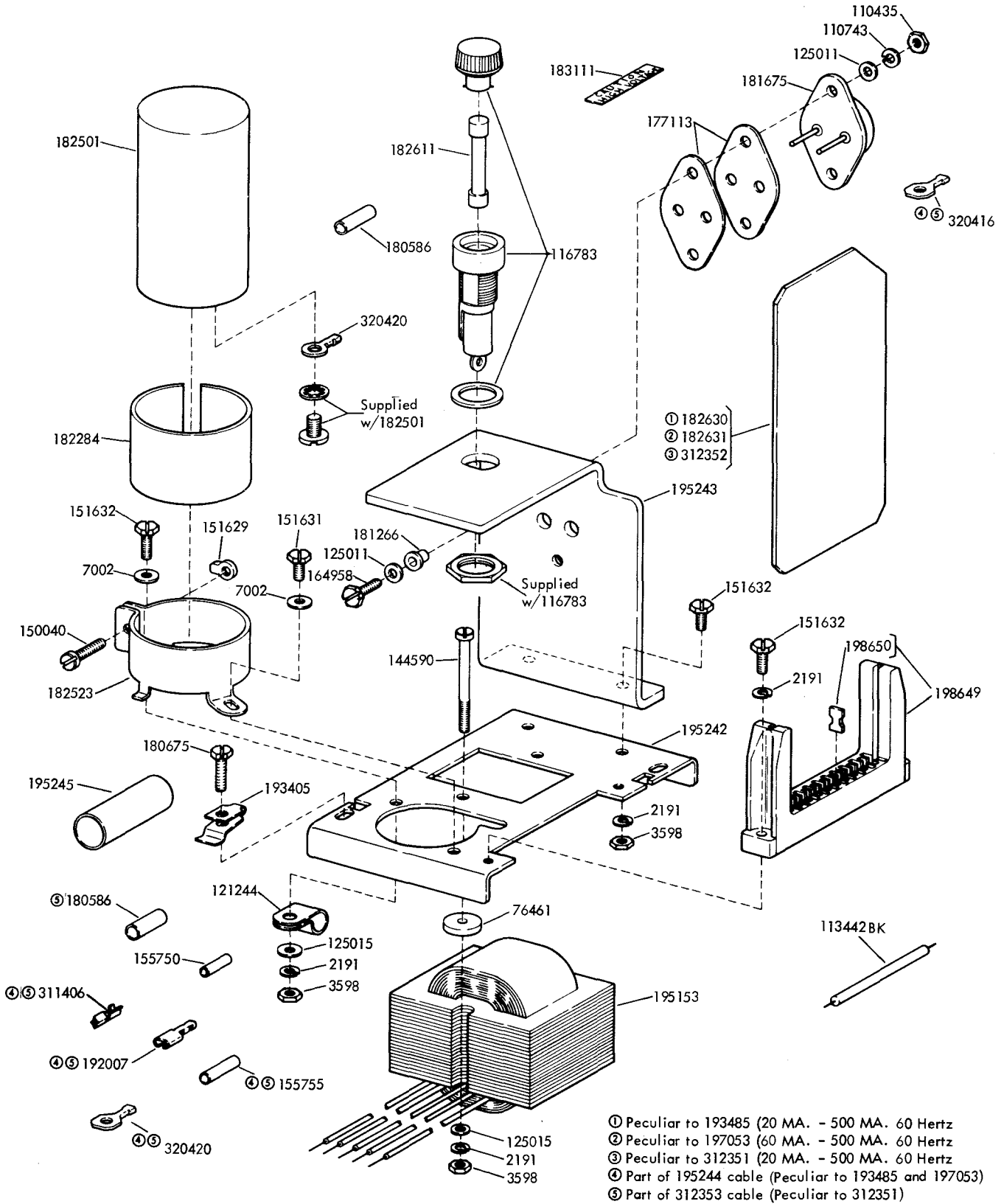


FIGURE 18. 193485, 197053 AND 312351 CONSTANT CURRENT SELECTOR MAGNET DRIVER ASSEMBLIES

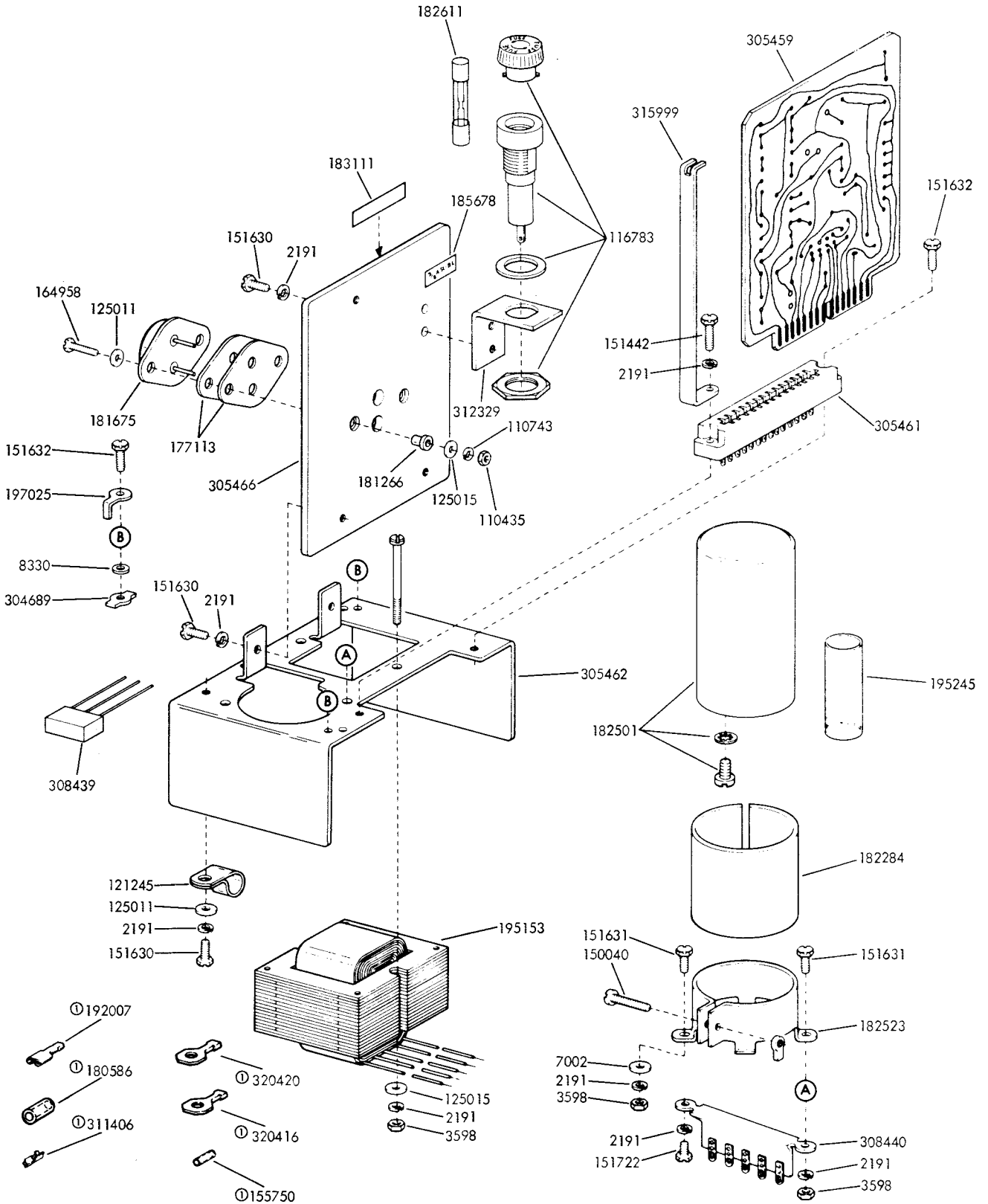


FIGURE 19. 305447 SELECTOR MAGNET DRIVER ASSEMBLY WITH BREAK DETECTOR

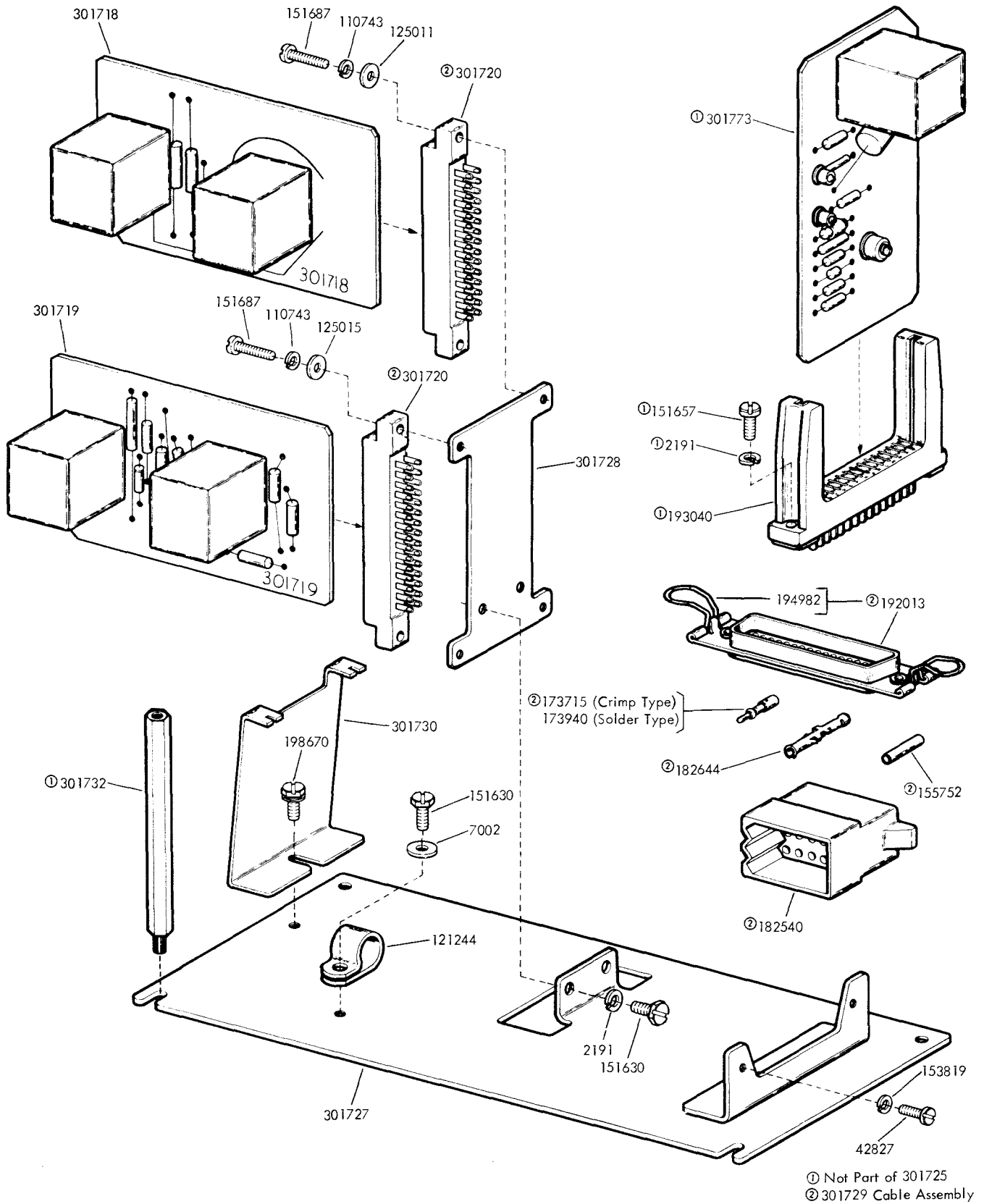


FIGURE 20. 301725 RELAY ASSEMBLY

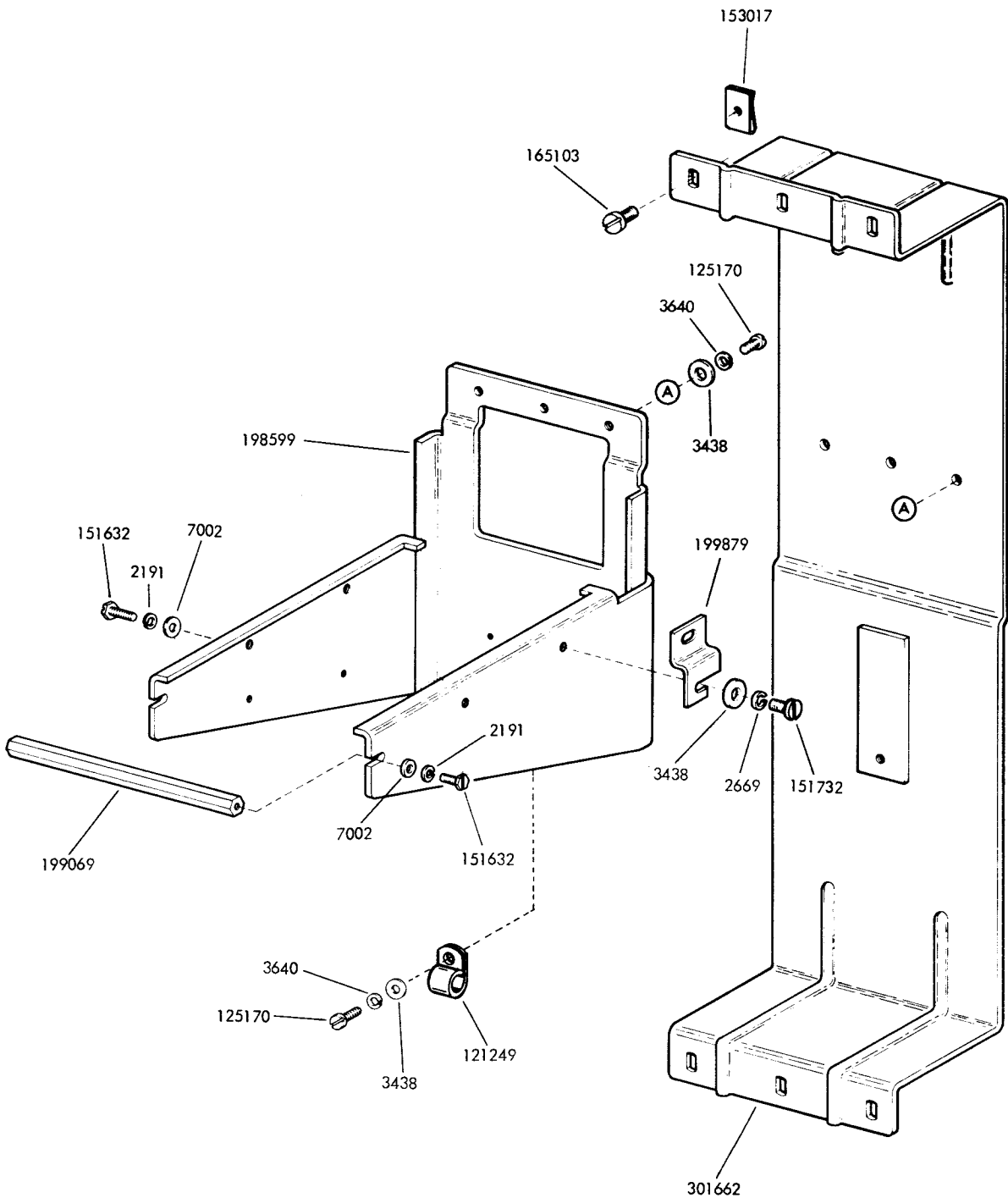
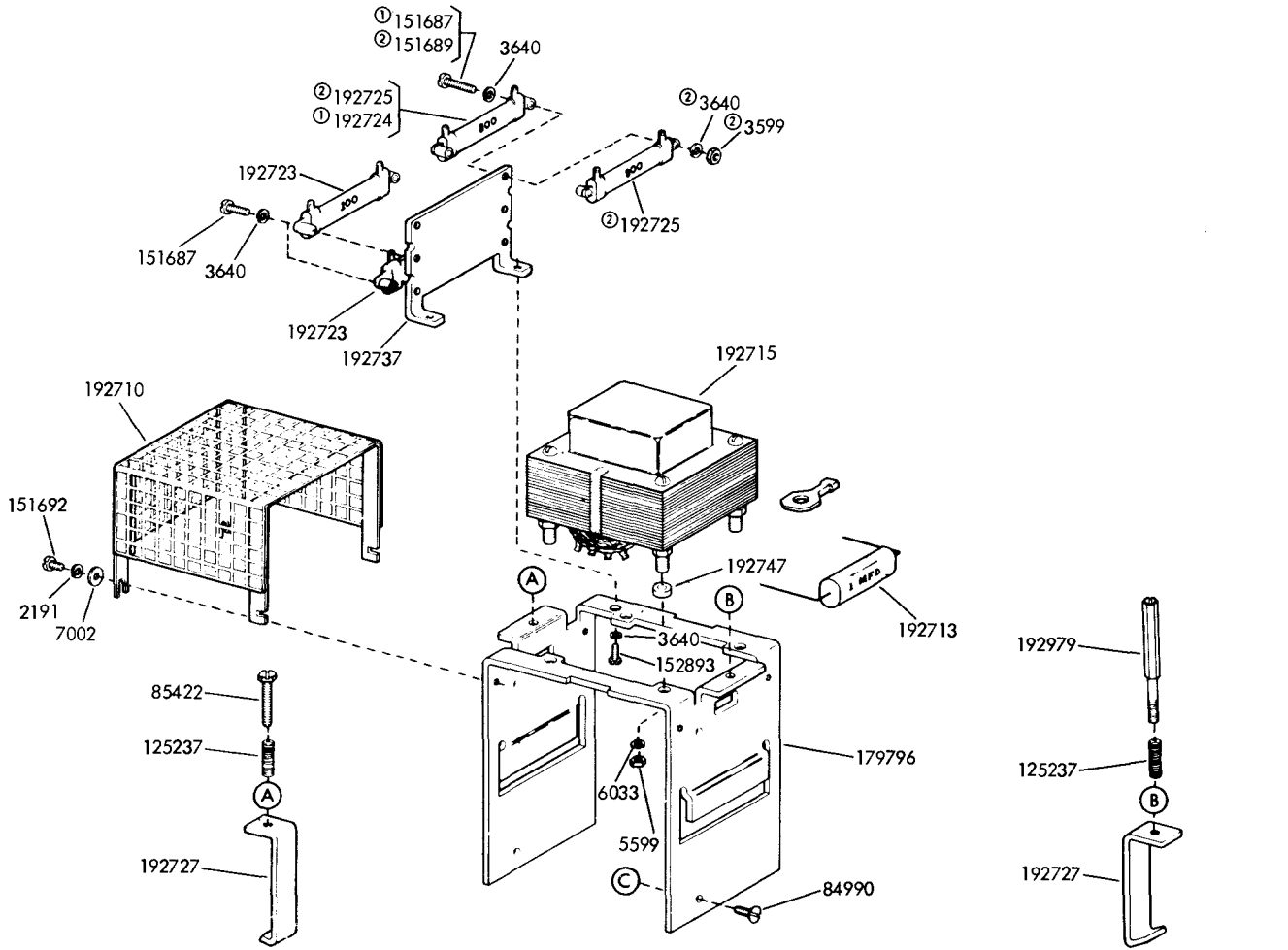
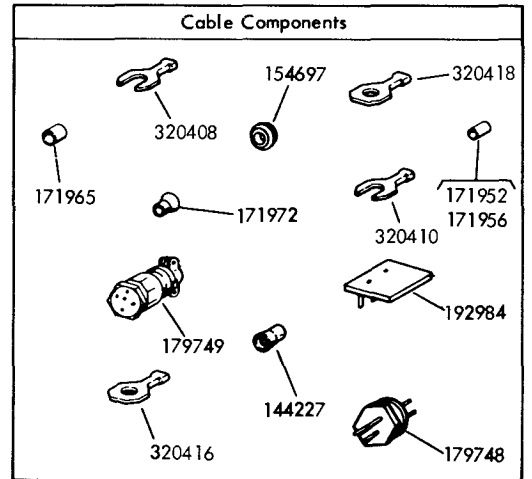


FIGURE 21. MOUNTING PLATES FOR SELECTOR MAGNET DRIVER AND LOW LEVEL KEYER



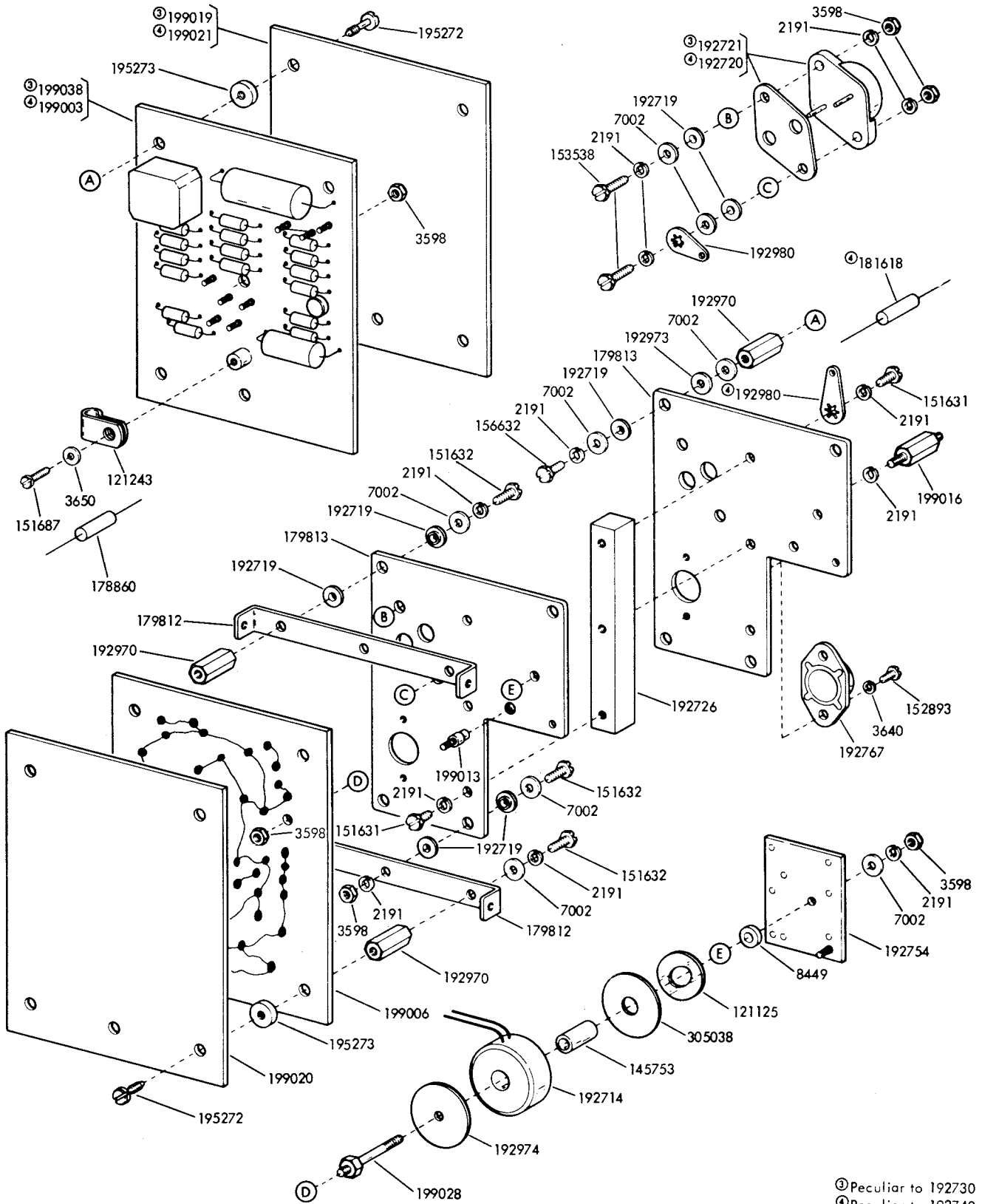


Jumpers			
Part No.	Color	Terminals	Length
151819	Black	320410 (2)	3-1/16"
156880	Black	320408 (2)	6-1/4"
157230	Black	320410 (2)	9-1/4"
157232	Black	320410 (2)	3-1/2"
195269	Green	320418 (1)	3-1/2"
195270	Green	320416 (1)	3-1/2"
305019	Brown		2"
305020	Purple		2"



① Peculiar to 192730  
 ② Peculiar to 192740

FIGURE 22. 192730 SELECTOR MAGNET DRIVER AND 192740 LOW LEVEL KEYSER ASSEMBLIES



ⓐ Peculiar to 192730  
 ⓑ Peculiar to 192740

FIGURE 23. 192730 SELECTOR MAGNET DRIVER AND 192740 LOW LEVEL KEYSER ASSEMBLIES (Continued)

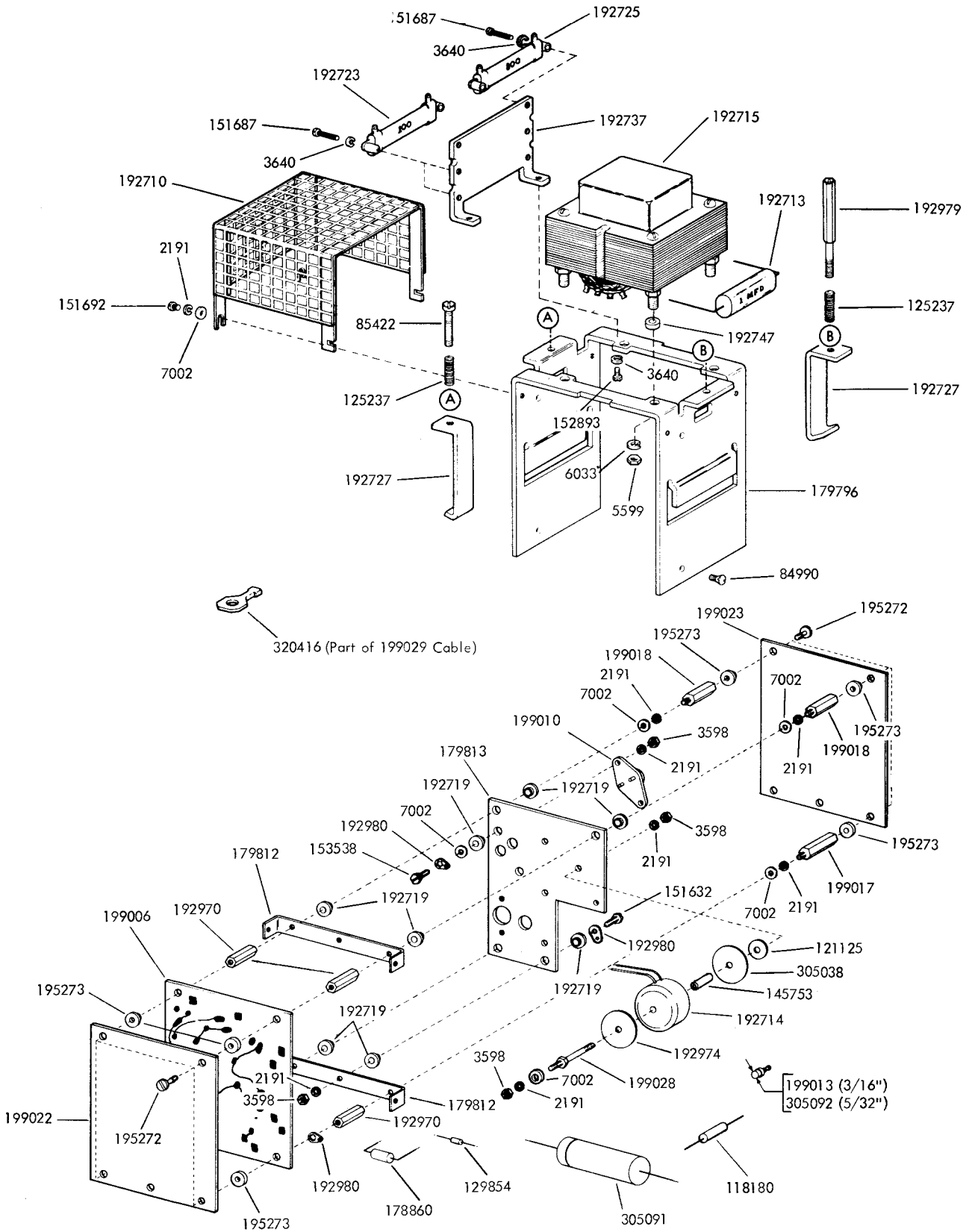
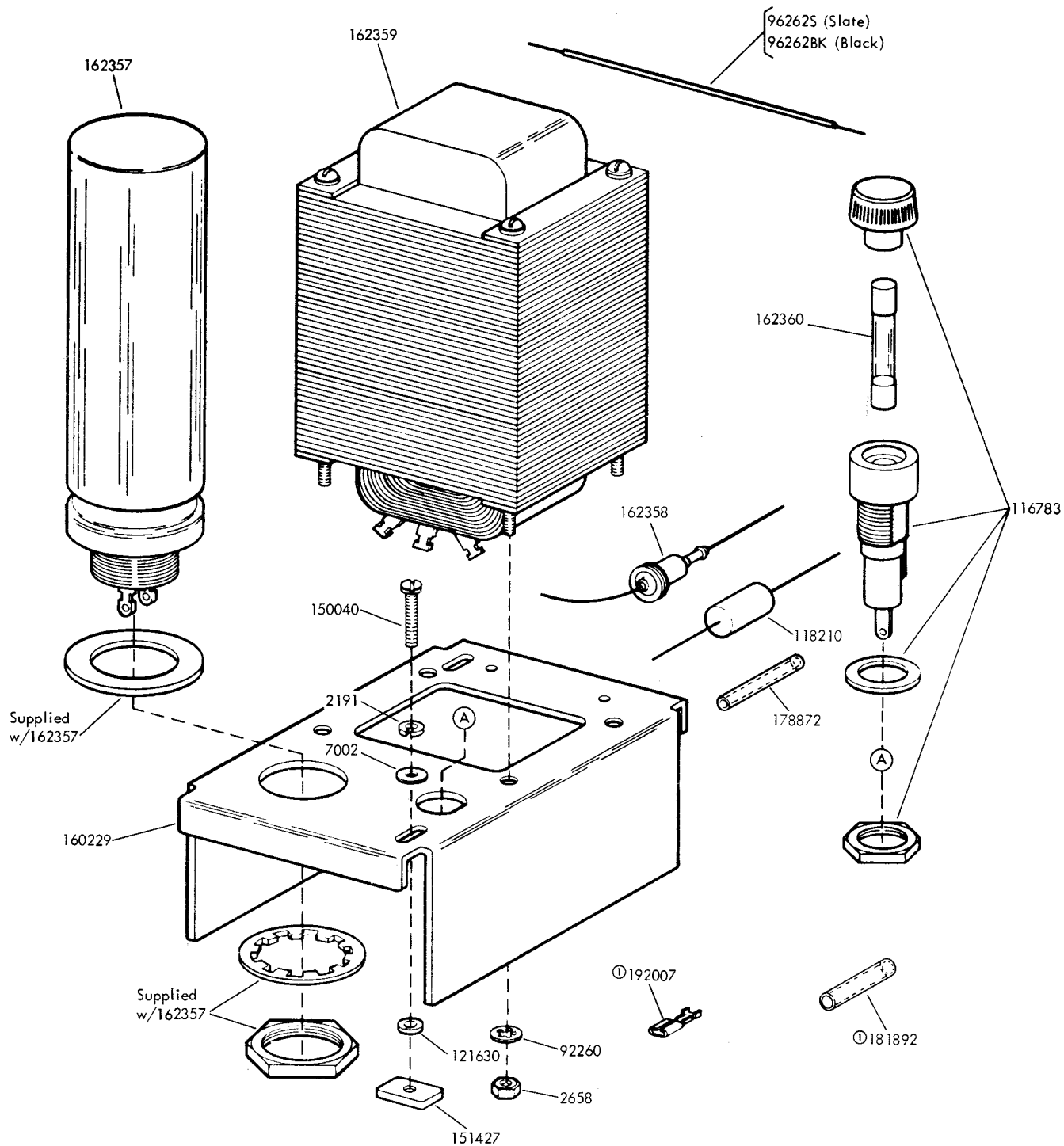


FIGURE 24. 192750 RECTIFIER ASSEMBLY



Ⓛ Part of 305060 Cable

FIGURE 25. 305061 RECTIFIER AND CABLE ASSEMBLY





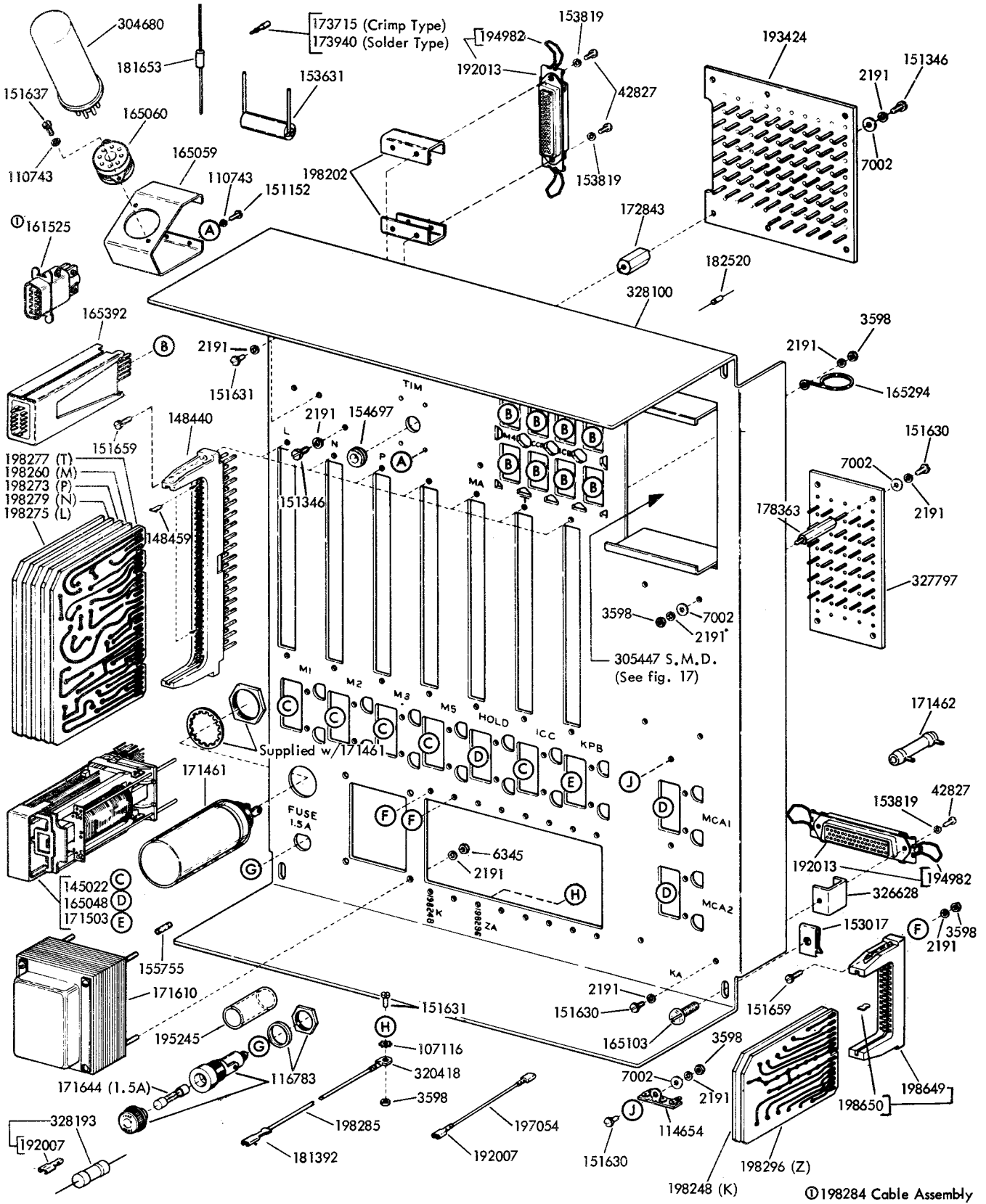


FIGURE 28. 327740 LOGIC PANEL ASSEMBLY

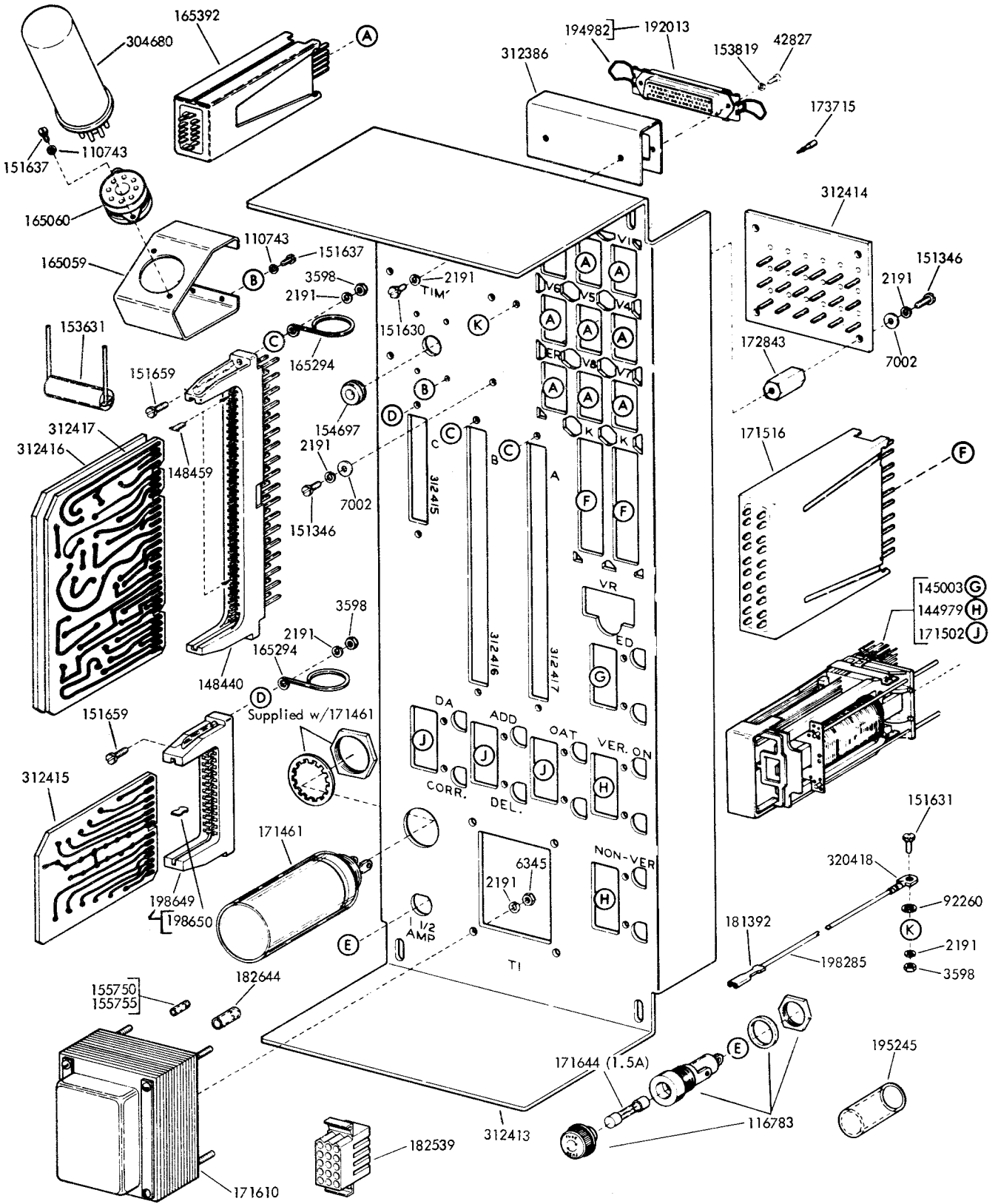
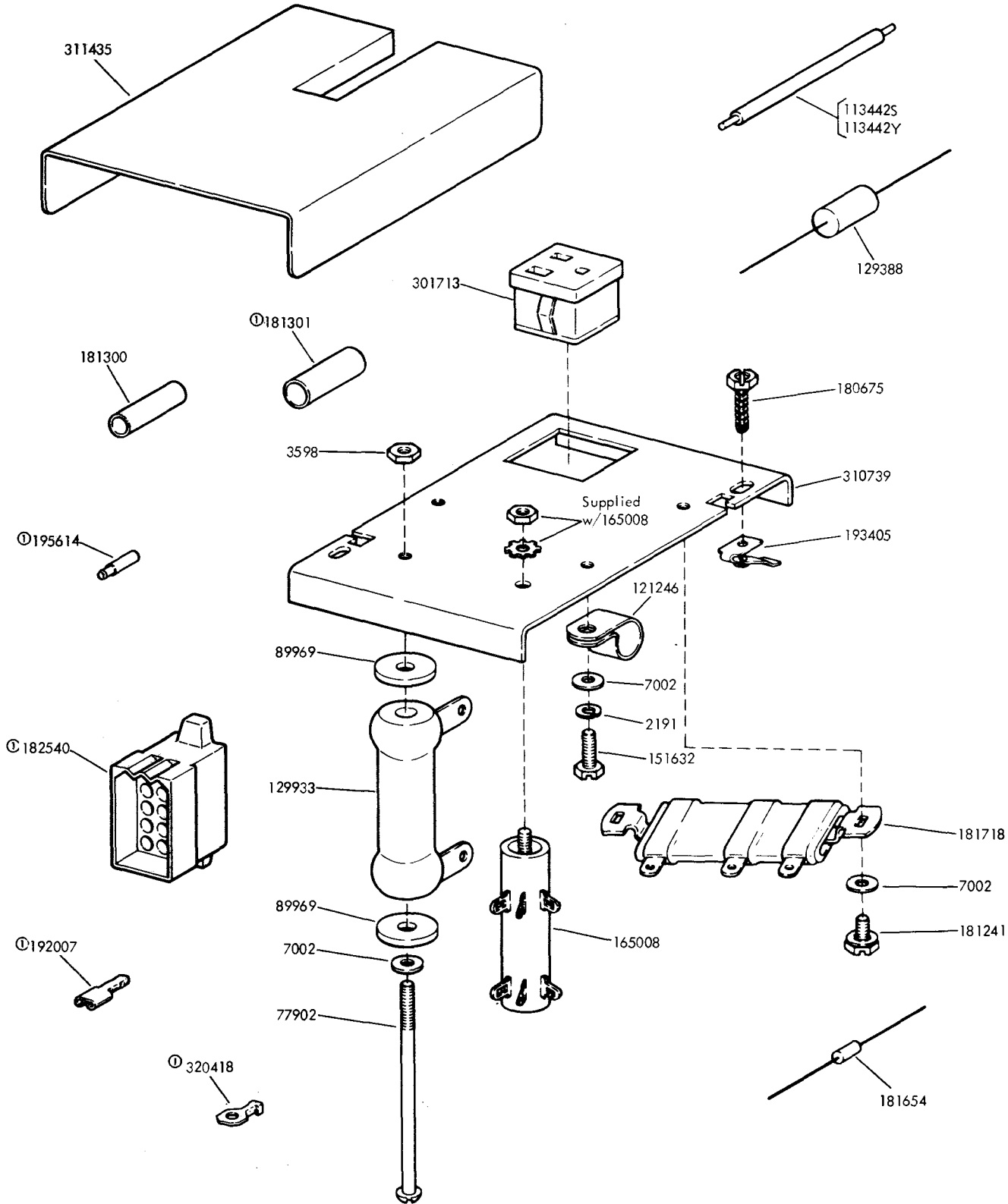


FIGURE 29. 312407 TAPE VERIFIER CONTROL MODULE ASSEMBLY







Ⓢ310748 Cable Assembly

FIGURE 31. 310738 PANEL ASSEMBLY

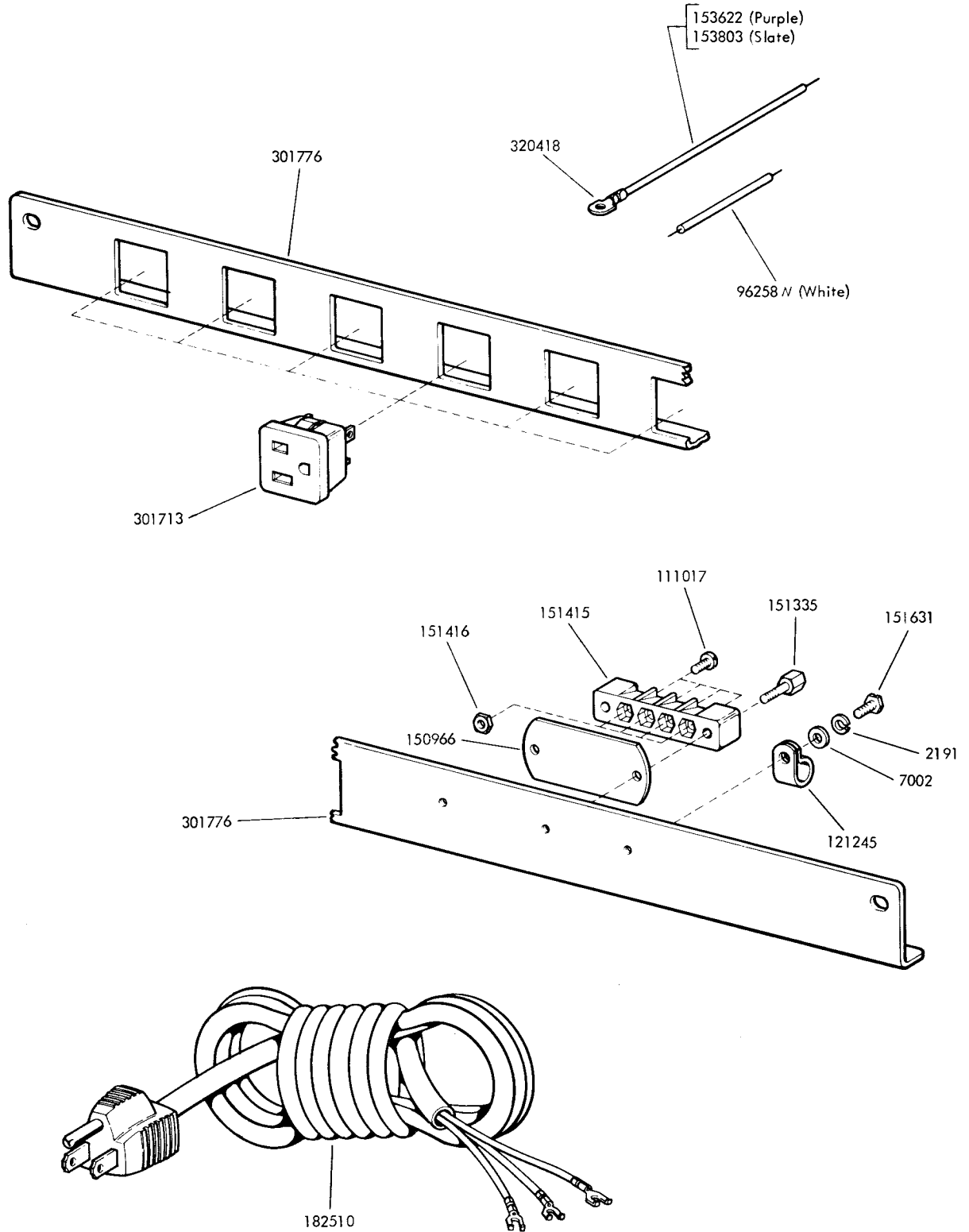


FIGURE 32. 301782 CONNECTOR PLATE ASSEMBLY

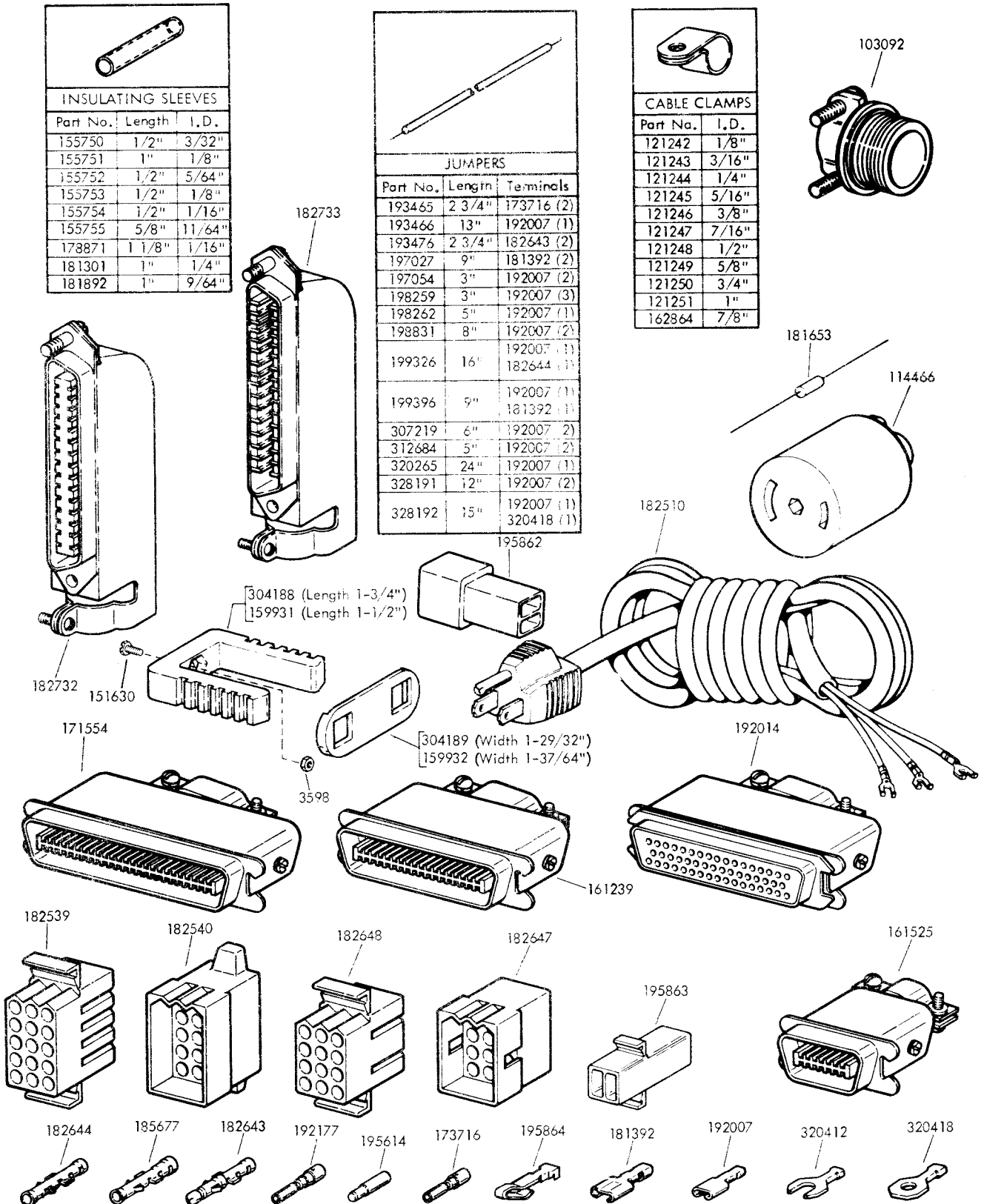


FIGURE 33. CABLE COMPONENTS

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1158	Screw, 6-32 x 5/16 Fil 10	120216	Resistor, 1,800 Ohm 4,25	151687	Screw, 4-40 x 7/16 Fil 18,20,21,22
2191	Washer, Lock 2 to 30	121125	Washer, Spring 21,22	151689	Screw, 4-40 x 3/4 Fil 20
2658	Nut, 6-32 Hex 23	121242	Clamp, 1/8 ID Cable 31	151692	Screw, 6-40 x 3/16 Fil 6,7,20,22
2669	Washer, Lock 19	121243	Clamp, 3/16 ID Cable 2,13,21,31	151722	Screw, 6-40 x 3/16 Hex 6 to 11,17
3438	Washer, Flat 19	121244	Clamp, 1/4 ID Cable 15,16,18,31	151724	Screw, 10-32 x 5/8 Hex 2,3
3598	Nut, 6-40 Hex 2 to 5,9,10,13 to 17, 21,22, 24 to 29, 31	121245	Clamp, 5/16 ID Cable 6,7,9,17,28,30,31	151732	Screw, 4-40 x 11/32 Fil 19
3599	Nut, 4-40 Hex 6,7,9,11,20	121246	Clamp, 3/8 ID Cable 29,31	151819	Jumper, 3" Black 20
3639	Washer, Lock 2,3	121247	Clamp, 7/16 ID Cable 31	151827	Strap, Terminal 6,7,11
3640	Washer, Lock 19 to 22	121248	Clamp, 1/2 ID Cable 31	151939	Grommet, Rubber 10,13
3646	Washer, Lock 2	121249	Clamp, 5/8 ID Cable 19,31	152893	Screw, 4-40 x 1/4 Hex 20,21,22
3650	Washer, Flat 21	121250	Clamp, 3/4 ID Cable 31	153017	Nut, Speed 19,25,26
5599	Nut, 8-32 Hex 2,20,22	121251	Clamp, 1 ID Cable 31	153455	Resistor, 600 Ohm 3
6033	Washer, Lock 20,22	121630	Washer, Flat 3,6,8 to 11,14,23	153484	Screw, 6-32 Spl 13
6345	Nut, 6-32 Hex 24 to 27	125011	Washer, Flat 16,17,18	153538	Screw, 6-40 x 7/16 Hex 6,7,21,22
7002	Washer, Flat 2 to 5,7,30	125015	Washer, Flat 2,3,5,16,17,18	153622	Jumper, 5" Purple 30
8330	Washer, Flat 2 to 5,15,17	125126	Screw, 2-56 x 9/32 Fil 4,25	153631	Network, Spark Suppression 2 to 5,12,13,24 to 28
8449	Spacer, .094" Thk 21	125170	Screw, 8-32 x 5/16 Fil 19	153803	Jumper, 5" Slate 11,30
42827	Screw, 3-48 x 1/4 Fil 18,24 to 28	125205	Screw, 6-40 x 7/16 Fil 3	153819	Washer, Lock 18,24 to 28
74615	Resistor, 2,000 Ohm 3	125237	Spring, Compression 20,22	153841	Screw, 6-40 x 9/16 Hex 2,3,4
75750	Washer, Insulating 3	129388	Resistor, 15,000 Ohm 29	154697	Grommet, Rubber 6 to 9,11,20,24 to 27
76099	Washer, Flat 14	129851	Resistor, 3,300 Ohm 4	155045	Switch, SP-DT Toggle 9
76461	Washer, Flat 16	129852	Resistor, 2,200 Ohm 4	155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 3,7,11,14,16,17,27,31
77362	Resistor, 350 Ohm 3	129854	Resistor, 10,000 Ohm 22	155751	Sleeve, 1/8 ID x 1" Lg Insulating 31
77902	Screw, 6-40 x 2-3/8 Rd 2,29	129919	Fuse, SL-BL 4 Amp 8,9	155752	Sleeve, 5/64 ID x 1/2" Lg Insulating 18,31
80854	Screw, 6-40 x 1-7/8 Fil 14	129933	Resistor, 1,200 Ohm 29	155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 31
84990	Screw, 6-40 x 1/4 Flat 20,22	137313	Capacitor, 50 MFD 28	155754	Sleeve, 1/16 ID x 1/2" Lg Insulating 31
85422	Screw, 10-32 x 15/16 Hex 20,22	137602	Resistor, 470 Ohm 4	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 5,7,11,14,16,24 to 27,31
87477	Resistor, 1,000 Ohm 2	139200	Fuse, 1/8 Amp 15	155858	Resistor, 700 Ohm 5,14
89969	Washer, Insulating 2,5,14,29	139820	Fuse, SL-BL 2.5 Amp 6	156536	Screw, 4-40 x 1/8 Fil 6,7
90789	Washer, Flat 7,12	142269	Fuse, SL-BL 3 Amp 11	156632	Screw, 6-40 x 13/32 Hex 3,5,6 to 9,11,21
90790	Washer, Flat 2	144227	Connector, Black Insulated 20	156880	Jumper, 2-3/8" Black 20
91683	Nut, 15/32-32 Hex 9	144590	Screw, 6-40 x 1-3/8 Fil 16	157230	Jumper, 6" Black 20
91742	Nut, Lock 11	144979	Relay, 700 Ohm 27,28	157232	Jumper, 9-1/4" Black 20
92260	Washer, Lock 23,27,28	145003	Relay 27	158286	Transformer 6 to 11,13
93117	Washer, Lock 4,25	145022	Relay 4,5,24,25,26	157658	Screw, 6-40 x 1-3/32 Hex 15
94665	Screw, 6-40 Shoulder 2	145753	Bushing 21,22	159931	Clamp 31
96258W	Jumper, 3" White 30	147014	Relay 3	159932	Keeper 31
96262BK	Jumper, 4" Black 23	148440	Connector, 36 Pt Circuit Card 24 to 28	160229	Plate, Mounting 23
96262S	Jumper, 4" Slate 23	148459	Tab, Polarizing 24 to 28	160847	Stud 2,3,4,25
98718	Washer, Flat 2	150040	Screw, 6-40 x 5/8 Fil 14,16,17,23	161136	Fuse, SL-BL 6-1/4 Amp 6,7,11
102092	Screw, 6-40 x 1-17/32 Rd 3	150966	Insulator, Terminal Block 6 to 9,11,30	161239	Connector, 36 Pt Plug 31
103092	Connector, Cord 11,31	151152	Screw, 4-40 x 3/16 Hex 24,25,26	161525	Connector, 14 pt Plug 24 to 26,31
103469	Screw, 4-40 Spl 2	151335	Stud 6 to 9,11,30	162357	Capacitor, 500 MFD 23
107116	Washer, Lock 2,3,24,25,26	151346	Screw, 6-40 x 3/8 Fil 14,24 to 27	162358	Diode 23
110435	Nut, 4-40 Hex 16,17	151415	Block, Terminal 6 to 9,11,30	162359	Transformer, Power 23
110743	Washer, Lock 6,7,9,11,16,17,18,24 to 27	151416	Nut, 6-40 Hex 6 to 9,11,30	162360	Fuse, SL-BL .8 Amp 23
111017	Screw, 6-40 x 5/16 Fil 6,8,9,11,30	151418	Fuse, 10 Amp 6	162361	Screw, 6-40 x 1-7/16 Fil 5
112080	Washer, Flat 2,3	151427	Plate, Clamp 14,23	162864	Clamp, 7/8 ID Cable 31
113442BK	Jumper, 2-1/2" Black 16	151442	Screw, 6-40 x 1/2 Hex 2,17	164958	Screw, 4-40 x 1/2 Hex 15,17
113442S	Jumper, 2-1/2" Slote 29	151629	Nut, 6-40 Lug 16	165008	Turret, Terminal 29
113442Y	Jumper, 2-1/2" Yellow 29	151630	Screw, 6-40 x 1/4 Hex 6,7,8,11,15,17,18,25 to 28,31	165048	Relay 24,25,26
113443	Jumper, 2-1/3" Orange 5	151631	Screw, 6-40 x 5/16 Hex 2,3,4,10,12,16,17,21,24 to 28,30		
114466	Connector, 3 Pt Receptacle 31	151632	Screw, 6-40 x 3/8 Hex 2,4,9,10,13,15,16,17,19,21,22,29		
114478	Nut, 15/32-32 Hex 9	151637	Screw, 4-40 x 1/4 Fil 24 to 27		
114654	Strip, Terminal 4,25,26	151657	Screw, 6-40 x 1/4 Fil 10,18		
115358	Fuse, 1 Amp 3	151658	Screw, 6-40 x 5/16 Fil 6,7		
116783	Holder, Fuse 3,6 to 9,11,16,17,23 to 27	151659	Screw, 6-40 x 1/2 Fil 24 to 28		
118180	Resistor, 10,000 Ohm 22				
118187	Resistor, 27,000 Ohm 4				
118203	Resistor, 4,700 Ohm 2				
118210	Resistor, 22,000 Ohm 23				

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
165059	Bracket, Mounting 24 to 27	181392	Terminal, Tab Type 8,11,24 to 28, 31	192724	Resistor, 600 Ohm 20
165060	Socket, Tube 24 to 27	181618	Capacitor, .01 MFD 21	192725	Resistor, 800 Ohm 20,22
165103	Screw, 12-24 x 5/8 Rd 19,25,26	181653	Diode 2,24,25,26,28,31	192726	Black 21
165116	Terminal 6,7,9,11	181654	Diode 29	192727	Clamp 20,22
165294	Guide, Wire 24 to 27	181675	Transistor, Power 16,17	192730	Driver Assembly, Selector Magnet 1,20,21
165330	Resistor, 1,000 Ohm 4,25	181718	Resistor, 2,000 - 10,000 Ohm 29	192737	Bracket, Resistor 20,22
165392	Relay, 525 Ohm 24 to 27	181810	Relay 6,7	192740	Keyer Assembly, Low Level 1, 20,21
165704	Cable w/Terminals 13	181819	Connector, 15 Pt Circuit Card 3	192747	Spacer, .125" Thk 20,22
165708	Relay Assembly 1,13	181843	Plate, Name 6	192750	Rectifier Assembly 1,22
165710G	Jumper, 8-1/2" Green 8	181848	Plate, Name 6	192754	Varistor Assembly 21
165735	Cable Assembly 14	181849	Plate, Name 6	192767	Transistor 21
165736	Regenerator Assembly, Signal 1,14	181891	Sleeve, 3/16 ID x 2-1/2" Lg Insulating 13	192970	Past 21,22
171195	Post 4	181892	Sleeve, 9/64 ID x 1" Lg Insulating 23,31	192973	Washer, Insulating 21
171461	Capacitor, 900 MFD 24 to 27	182182	Holder, Fuse .15	192974	Washer, Insulating 21,22
171462	Resistor, 450 Ohm 26	182193	Insulator 13	192979	Stud 20,22
171501	Relay 12	182284	Insulator, .015" Thk 16,17	192980	Terminal 21,22
171502	Relay 27,28	182501	Capacitor, 1,500 MFD 16,17	192984	Socket, 3 Pt 20
171503	Relay 4,25,26	182510	Cord, Power 30,31	193040	Connector w/Guide Slot 18
171516	Relay 27	182520	Rectifier 4,25,26	193401	Plate, Mounting 13
171524	Resistor, 700 Ohm 4,25	182523	Clamp, 1-3/8" ID Mounting 16,17	193405	Nut, Speed 4,12,13,14,16,29
171541	Diode 4	182539	Connector, 15 Pt Receptacle Type 27,31	193417	Container, Electrical Service 2
171554	Connector, 50 Pt Plug 31	182540	Connector, 15 Pt Plug Type 18, 25,29,31	193418	Plate, Mounting 4
171610	Transformer 24 to 27	182611	Fuse, SL-BL 3/8 Amp 16,17	193420	Cover 2,3
171644	Fuse, 1.5 Amp 24 to 27	182630	Card, Circuit 16	193422	Board, Terminal 2,3,25
171952	Connector, Green Shielding 20	182631	Card, Circuit 16	193424	Board, Terminal 4,24,25,26
171956	Connector, Green Shielding 20	182643	Terminal, Plug Type 6,7,10,25, 31	193464	Plate, Mounting 14
171965	Connector, Yellow Shielding 20	182644	Terminal, Receptacle Type 6 to 11,13,18,25,27,31	193465	Jumper, 3/4" Black 31
171972	Connector, Green Insulated 20	182647	Connector, 12 Pt Plug Type 25,31	193466	Jumper, 13" Green 25,31
172843	Post 24 to 27	182648	Connector, 12 Pt Receptacle Type 7,31	193467	Plate Assembly 1,4
173715	Terminal, Plug Type 18,24 to 28	182716	Connector, 9 Pt Plug Type 6,8,10	193476	Jumper, 2-3/4" Black 31
173716	Terminal, Receptacle Type 4,31	182732	Connector, 50 Pt Plug 31	193485	Driver Assembly, Selector Magnet 1,16,25
173940	Terminal, Plug Type 18,24,25,26	182733	Connector, 50 Pt Receptacle 31	194584	Resistor, 350 Ohm 4,25
173941	Terminal, Receptacle Type 4	182763	Resistor 2	194982	Clip, Connector 18,24 to 28
177100	Rectifier 4	183111	Label 16,17	194990	Screw, 10-32 Shoulder 2,3
177108	Diode 4	185676	Terminal, Plug Type 7,8,10	195153	Transformer 16,17
177113	Insulator 16,17	185677	Terminal, Receptacle Type 31	195242	Plate, Mounting 16
177566BK	Jumper, 6" Black 8,11	185678	Plate, Identification 17	195243	Plate, Heat Sink 16
178306	Relay, Power 13	185682	Plate, Identification 11	195244	Cable w/Terminals 16
178363	Stud 26	185684	Plate, Identification 8,9	195245	Sleeve, 1/2 ID x 1-1/2" Lg Insulating 11,16,17,24 to 27
178535	Suppressor, Spark 13	185686	Plate, Identification 6,7,11	195269	Jumper, 3-1/2" Green 20
178848	Diode 4	192007	Terminal, Tab Type 2 to 11,13 to 17,23 to 26,29,31	195270	Jumper, 3-1/2" Green 20
178853	Cover, Relay 10	192013	Connector, 50 Pt Plug Type 18, 24 to 28	195272	Screw, 6-40 Spl 21,22
178854	Bracket, Relay 10	192014	Connector, 50 Pt Receptacle Type 31	195273	Bushing 21,22
178856	Relay, Line Shunt 10	192108	Jumper, 4-1/2" Slate 11	195614	Pin, Key 29,31
178860	Capacitor, .022 MFD 21,22	192176	Terminal, Plug Type 25	195862	Connector, 2 Pt Plug 31
178871	Sleeve, 1/2 ID x 1-1/8" Lg Insulating 31	192177	Terminal, Receptacle Type 31	195863	Connector, 2 Pt Receptacle 31
178872	Sleeve, 1/16 ID x 1-1/4" Lg Insulating 23	192273	Nut, Speed 2,3	195864	Terminal 31
179173	Relay 4,25	192274	Screw, 8-32 Spl 2	195939	Cover 2
179748	Connector, 5 Pt Plug 20	192710	Cover 20,22	195940	Stud 2,12
179749	Connector, 5 Pt Receptacle 20	192713	Capacitor, 1 MFD 20,22	197020	Board, Terminal 2
179796	Chassis 20,22	192714	Choke, .70 Ohm 21,22	197025	Stap 2,3,5 to 12,15,17
179812	Bracket, Mounting 21,22	192715	Transformer 20,22	197027	Jumper, 9" Black 25,31
179813	Dissipator, Heat 21,22	192719	Bushing, Shoulder 21,22	197028	Terminal 2,3
180586	Sleeve, 5/32 ID x 21/32" Lg Insulating 16,17	192720	Diode 21	197029	Cable w/Terminals 6
180675	Screw, #6 Self-Tapping 4,12, 13,14,16,29	192721	Diode 21	197031	Connector, 3 Pt Receptacle 6,7, 9,11
181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 9,29	192723	Resistor, 100 Ohm 20,22	197043	Board, Terminal 2
181266	Bushing, Insulating 16,17			197053	Driver Assembly, Selector Magnet 1,16
181300	Sleeve, 3/16 ID x 1" Lg Insulating 29			197054	Jumper, 3" Black 24,25,26,31
181301	Sleeve, 15/64 ID x 1" Lg Insulating 3,29,31			197078	Plate, Mounting 6,8,10

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
198203	Container 2	199396	Jumper, 9" Black 31	312352	Card, Circuit 16
198205	Cable Assembly 14	199879	Bracket 19	312353	Cable w/Terminals 16
198208	Board, Terminal 2	301650	Resistor Assembly 14	312363	Card, Circuit 28
198209	Power Supply 1,14	301651	Distribution Assembly, Power 1, 6	312364	Card, Circuit 28
198214	Cover 2			312365	Switch, Foot 28
198248	Card, Circuit 14,24,25,26	301662	Plate, Mounting 19	312369	Panel, Relay Mounting 28
198259	Jumper, 3" Black 25,31	301666	Plate 14	312382	Chassis 9
198260	Card, Circuit 24,25,26	301669	Cable Assembly 14	312386	Bracket, Connector 27,28
198262	Jumper, 5" Black 31	301675	Cable Assembly 6	312389	Module Assembly 1,28
198265	Resistor, 800 Ohm 25	301713	Connector, 2 Pt Receptacle 6,8, 29,30	312391	Plate 15
198273	Card, Circuit 24,25,26			312392	Bracket 15
198275	Card, Circuit 24,25,26	301718	Card, Circuit 18	312407	Module Assembly 1,27
198277	Card, Circuit 24,25,26	301719	Card, Circuit 18	312413	Panel, Relay Mounting 27
198279	Card, Circuit 24,25,26	301720	Connector, 30 Pt Card 18	312414	Board, Terminal 27
198282	Card, Circuit 28	301725	Relay Assembly 1,18	312415	Card, Circuit 27
198284	Cable Assembly 24,25,26	301727	Plate w/Bracket 18	312416	Card, Circuit 27
198285	Cable w/Terminals 24 to 28	301728	Plate 18	312417	Card, Circuit 27
198291	Bracket, Relay 6,7	301729	Cable Assembly 18	312684	Jumper, 5" Black 31
198292	Cover, Relay 6,7	301730	Clamp 18	315999	Bracket 17
198293	Insulator, Terminal Block 6,7	301732	Post 18	319257	Distribution Assembly Power 1,7
198296	Card, Circuit 24,25,26	301773	Card, Circuit 18	319258	Plate 7
198507	Resistor, 100 Ohm 3	301776	Plate, Connector 30	319268	Cable w/Terminals 7
198516	Plate, Mounting 5	301782	Plate Assembly, Connector 1,30	320255	Distribution Assembly, Power 1,8
198599	Bracket, Mounting 19	301813	Container 3	320256	Cable Assembly 8
198649	Connector, 15 Pt Circuit Card 4, 14 to 16, 24 to 27	304188	Clamp 31	320262	Board, Terminal 2
198650	Key, Polarizing 3,4,14,15,16, 24 to 27	304189	Keeper 31	320265	Jumper, 24" Green 3,31
		304680	Relay 24 to 27	320266	Cover 2
198666	Plate 14	304689	Plate, Clamp 2,3,5 to 12,15, 17	320408	Terminal, Spade Type 20
198670	Screw w/Lockwasher, 6-40 x 5/16 Hex 18	304925	Board, Terminal 12	320410	Terminal, Spade Type 13,20
198831	Jumper, 8" Black 31	305019	Jumper, 2" Brown 20	320412	Terminal, Spade Type 31
199003	Card, Circuit 21	305020	Jumper, 2" Purple 20	320416	Terminal, Ring Type 16,17,20,22
199006	Card, Circuit 21,22	305038	Washer, Insulating 21,22	320418	Terminal, Ring Type 6 to 9,11, 13,20,24 to 31
199010	Diode 22	305060	Cable w/Terminals 23	320420	Terminal, Ring Type 16,17
199013	Post, White Insulated 21,22	305061	Rectifier Assembly 1,23	323030	Cable Assembly 3
199016	Post 21	305091	Capacitor, .22 MFD 22	323047	Cable w/Terminals 9
199017	Post 22	305092	Post, White Insulated 22	323048	Cable w/Terminals 3
199018	Post 22	305411	Mounting Plate, Relay 12	323055	Plate Assembly, Relay 1,3
199019	Cover 21	305417	Board Assembly, Terminal 1,12	323056	Distribution Assembly, Power 1,9
199020	Cover 21	305440	Relay Assembly 1,5	323079	Plate 3
199021	Cover 21	305441	Cable w/Terminals 5	323081	Board, Terminal 3
199022	Cover 22	305446	Regenerator Assembly, Signal 1,15	323606	Diode 3
199023	Cover 22	305447	Driver Assembly, Selector	323609	Card, EC609 Circuit 14
199028	Post 21,22			326608	Panel Assembly 1,25
199029	Cable w/Terminals 22	305459	Magnet 1,17,26	326609	Distribution Assembly, Power 1,10
199038	Card, Circuit 21	305461	Card Circuit 17	326612	Diode w/Terminals 2
199069	Bar, Spacing 19	305462	Connector, 15 Pt Circuit Card 17	326614	Cable w/Terminals 10
199314	Cable w/Terminals 4	305466	Plate, Mounting 17	326623	Panel, Relay Mounting 25
199315	Relay Assembly 4	305762	Plate 17	326628	Bracket 25,26
199316	Bracket, Mounting 4	306964	Cover 12	327106	Resistor w/Terminals 2
199317	Relay 4,25	307219	Strip, Terminal 28	327740	Panel Assembly 1,26
199319	Cable w/Terminals 4,25	308439	Jumper, 6" Black 31	327797	Board, Terminal 26
199322	Connector, 6 Pt Receptacle Type 6 to 11	308478	Diode 17	328092	Board, Terminal 2
199325	Jumper, 16" Yellow 6 to 11,13	308478	Strip, Terminal 17	328093	Cover 2
199326	Jumper, 16" Purple 6,7,8,10, 11,13,31	310738	Cord, Power 11	328098	Distribution Assembly, Power 1,7
199350	Transformer Assembly, Copylight 1,13	310739	Panel Assembly 1,29	328099	Cable w/Terminals 7
199352	Transformer 6 to 11,13	310748	Plate, Mounting 29	328100	Panel 26
199360	Distribution Assembly, Power 1,6	311406	Cable Assembly 29	328191	Jumper, 12" Black 31
199379	Plate Assembly, Relay 1,4	311435	Terminal, Receptacle Type 16, 17	328192	Jumper, 15" Red 31
199392	Insulator 2	312325	Insulator 29	328193	Resistor w/Terminals, 4 Ohm 26
199393	Washer, Insulating 2	312326	Card, Circuit 15	328197	Insulator 2
199394	Insulator 2	312326	Cable w/Terminals 15	328345	Plate, Mounting 11
		312329	Bracket, Fuse 17	328811	Distribution Assembly, Power 1,11
		312333	Transformer 15	334429	Board, Terminal 2
		312351	Driver Assembly, Selector Magnet 1,16	334433	Board, Terminal 2
				334434	Cover 2
				334435	Insulator 2

35 CALL CONTROL UNIT (LCCU)

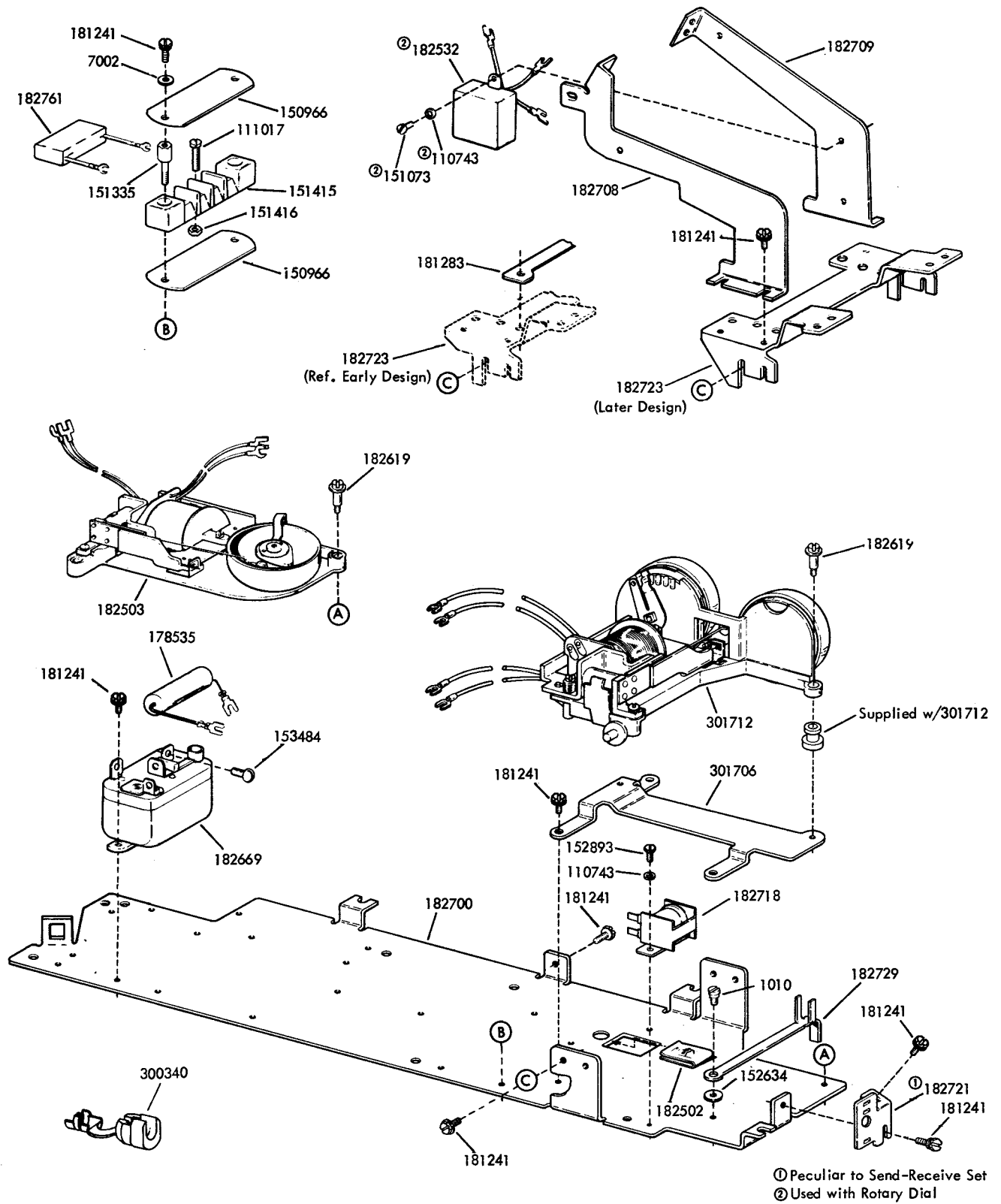
PARTS

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Basic Components	2	12	Dial Modifications	12
2	Basic Components (Continued)	3	13	Dial Modifications (Continued)	13
3	Basic Components (Continued)	4	14	199409 Modification Kit to Provide Fusing in the Primary of the Call Control Low Voltage Transformer	14
4	Basic Components (Continued)	5			
5	Dial Assemblies	6	15	319274 and 320489 Modification Kits to Add Alarm Lamps with Release Switches	15
6	Receive-Only Lmap and Key Bracket	7	16	182750 Circuit Card Assembly	16
7	Pilot Plate Assemblies	7	17	182630 Circuit Card Assembly	16
8	182695 Selector Magnet Driver Assembly	8	18	198515 Circuit Card Assembly	17
9	304995 Line Relay Mounting Assembly	9	19	305688 Circuit Card Assembly	18
10	Cable Components	10		Numerical Index	19
11	Key Assemblies	11			

PAINT FINISH COLOR CODE CHART									
(for parts and assemblies requiring a paint finish)									
Color	Finish Suffixes				Color	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl		Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Beige		ET			Gray, Federal		BV	GG	
Beige, Light		EL		HC	Gray, Green	AB	BK	GA	
Beige, Rose		ER			Gray, Light		EJ		HB
Black	AA				Gray, Covert				HE
Black, High Gloss		BA			Gray, Olive		EW	GE	HF
Black, Semi Gloss		BB			Gray, Maritime Deck	AJ	BJ		
Blue, Aqua		EK			Gray, Oxford		EP		
Blue, Brussels Light		EC			Green, Gray	AB	BK	GA	
Blue, Medium		ES			Green, Moss		EN		HD
Brown, Dark	AD				Ivory		EM		
Brown, Light	AC				Pink, Rose		EU		
Fawn				HG	Turquoise		EV		
Gray, Beige			GC		White		EH		
Gray, Charcoal	AL	BZ	GF	HA	Yellow, Pastel		EG		
Gray, Dark			GB						

The double asterisk (\*\*) denotes a painted part. Suffix to be applied following the part number.





① Peculiar to Send-Receive Set  
 ② Used with Rotary Dial

FIGURE 1. BASIC COMPONENTS

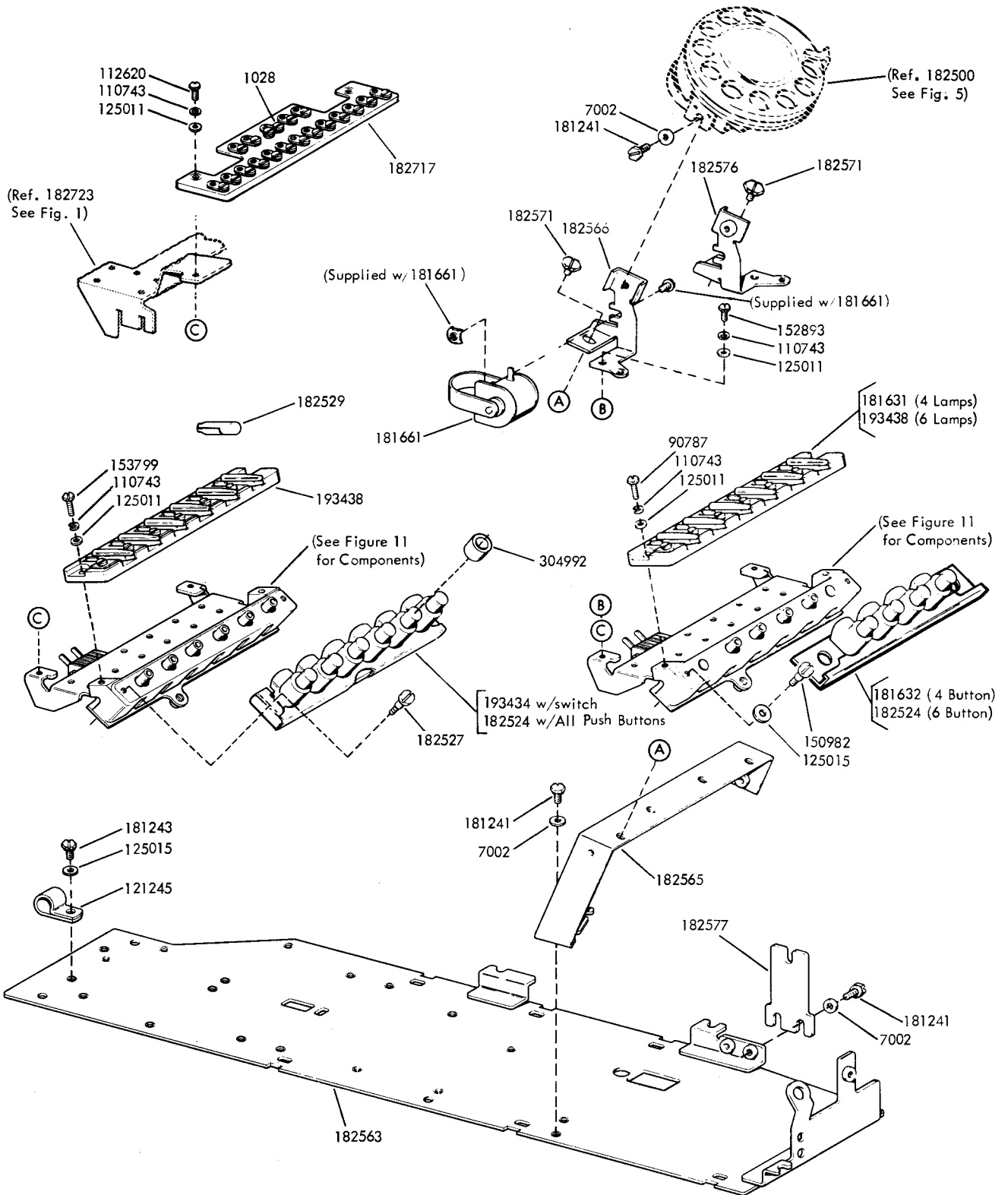


FIGURE 2. BASIC COMPONENTS (Continued)

FUSE CHART				
Location	Fuse	Nameplate	Description	Notes
A	162360	185688	.8A SL-BL	
	117176	185679	.5A SL-BL	Used w/181879 Trnsf.
B	117176	185679	.5A SL-BL	w/Data Set
C	161136	185686	6.25A SL-BL	
	129919	185684	4A SL-BL	RO Sets Only

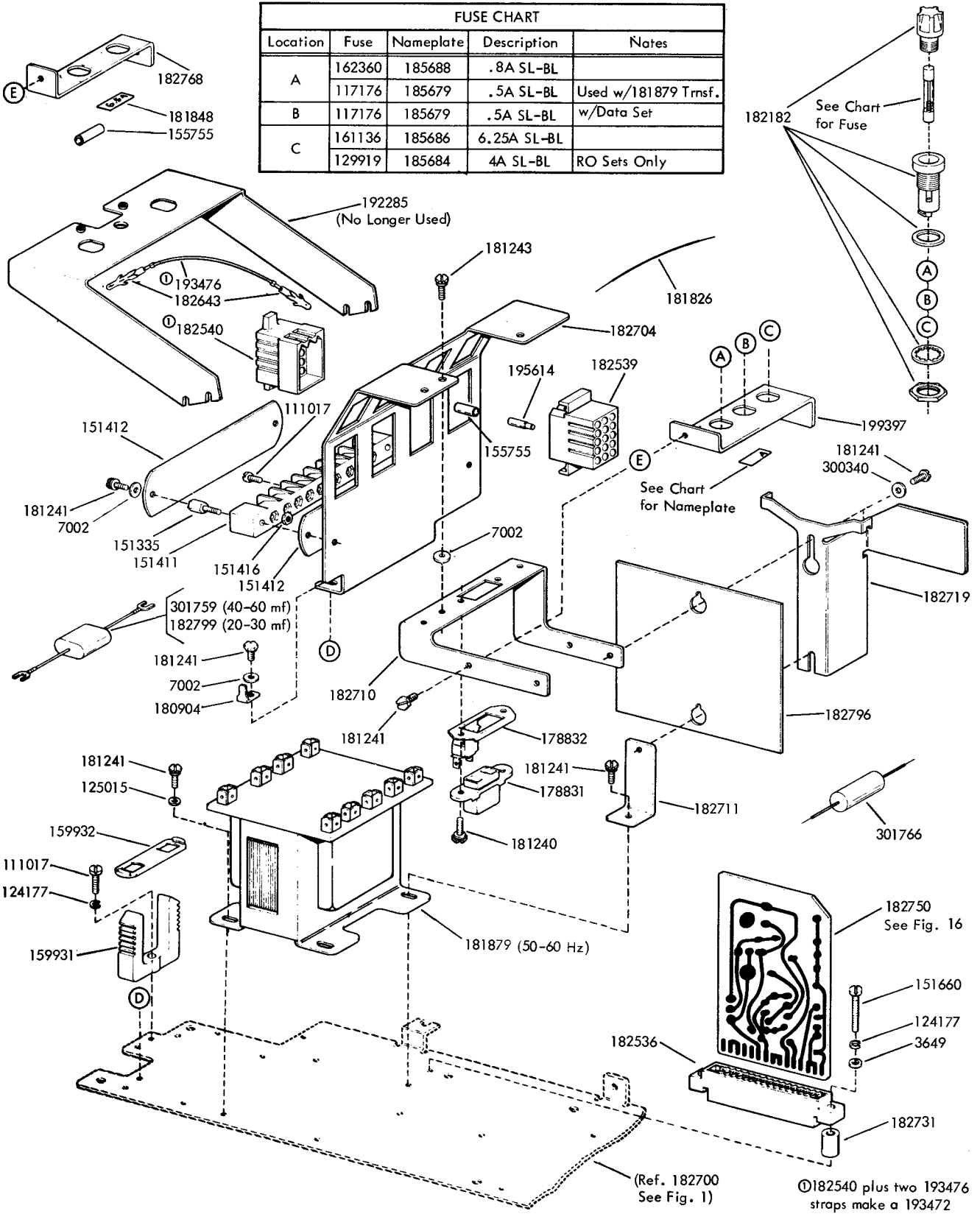


FIGURE 3. BASIC COMPONENTS (Continued)

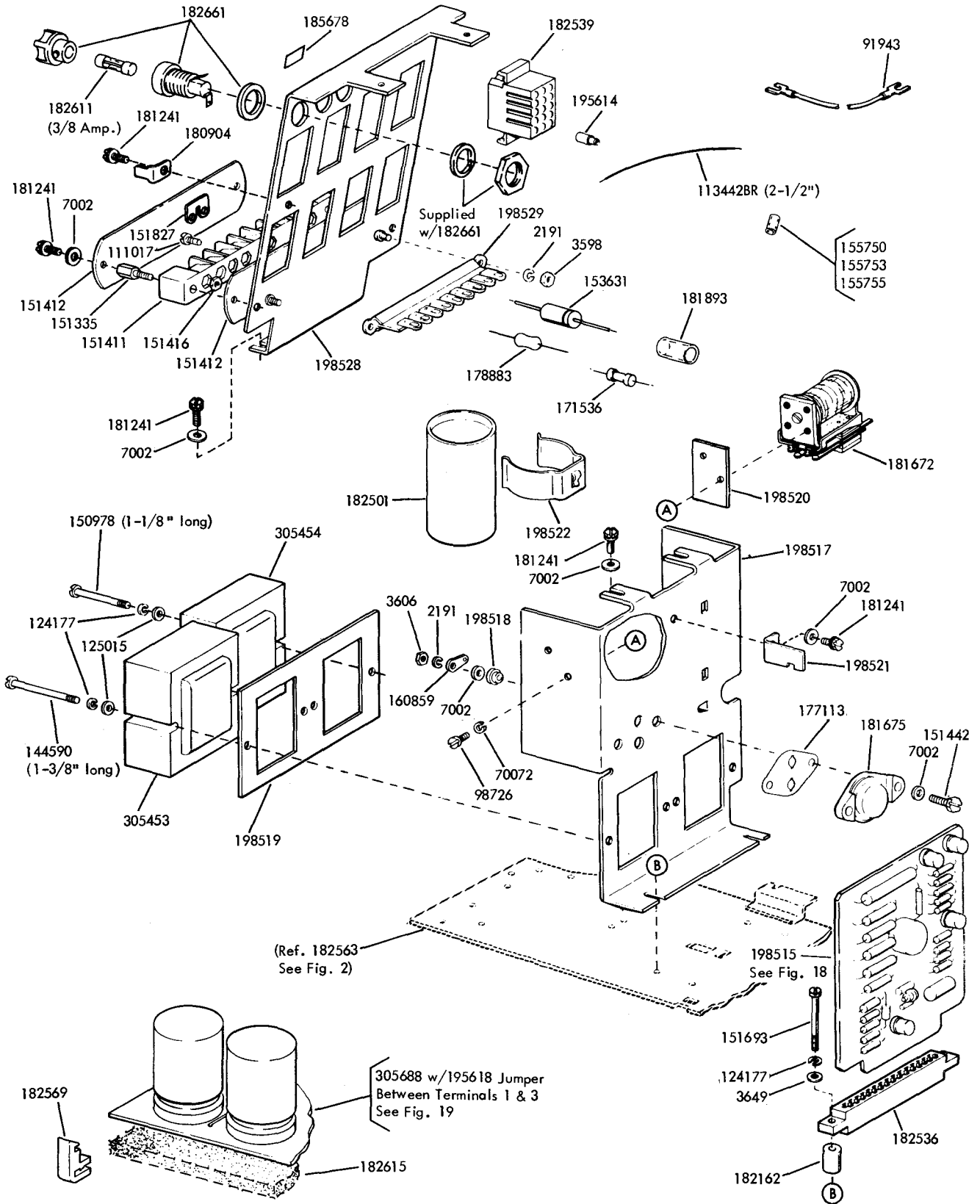
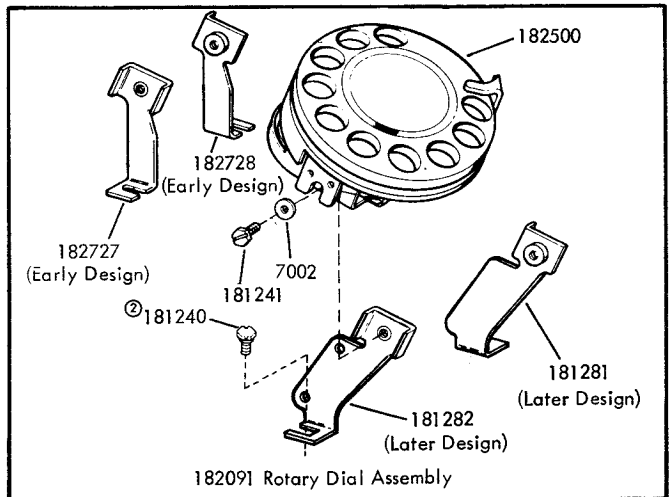
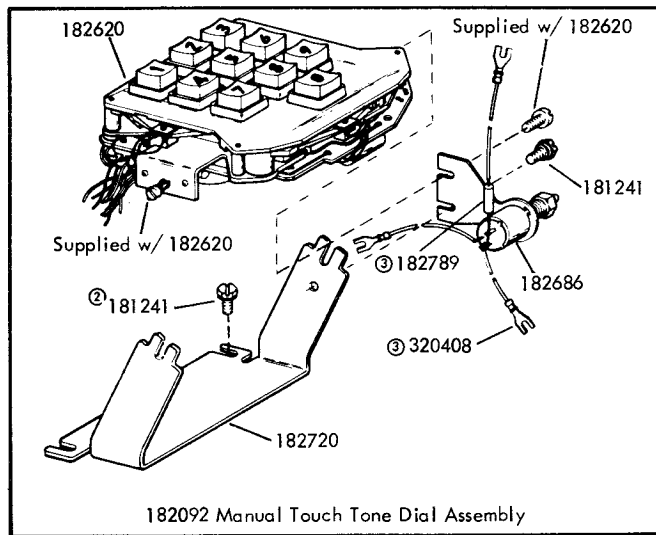
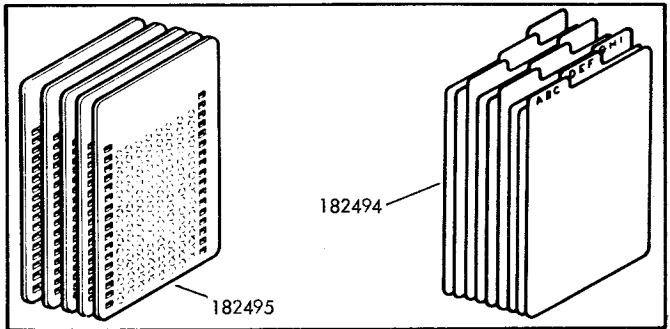
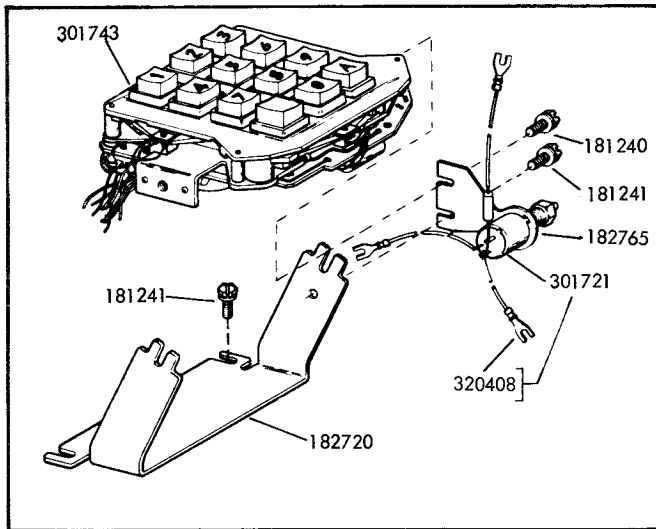
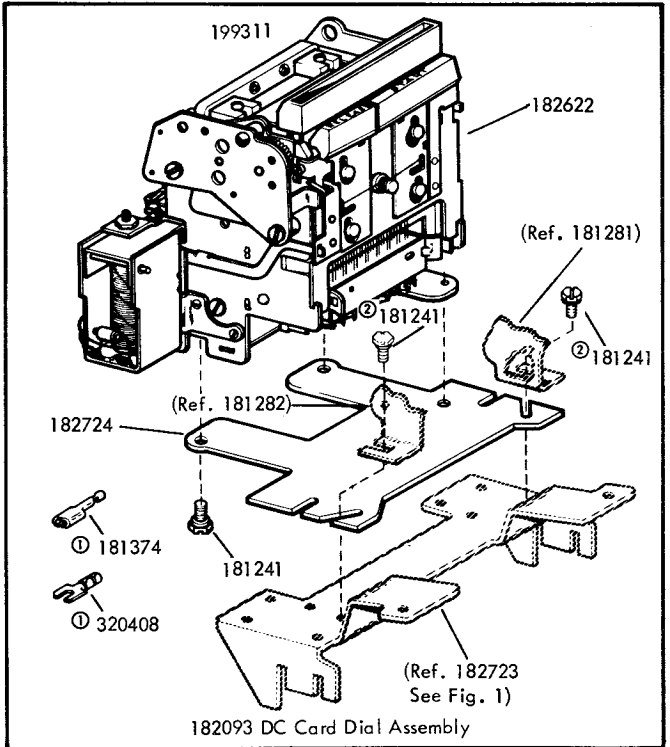
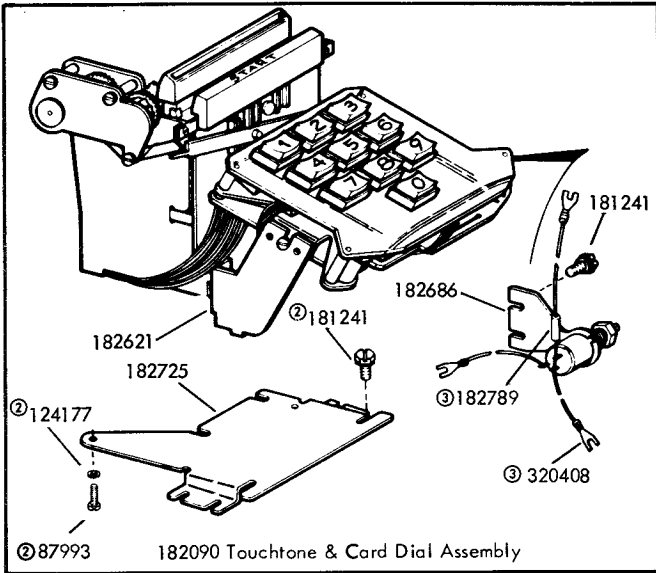


FIGURE 4. BASIC COMPONENTS (Continued)



- ① 182698 Cable
- ② Not included in dial assembly
- ③ Supplied w/ 182686

FIGURE 5. DIAL ASSEMBLIES

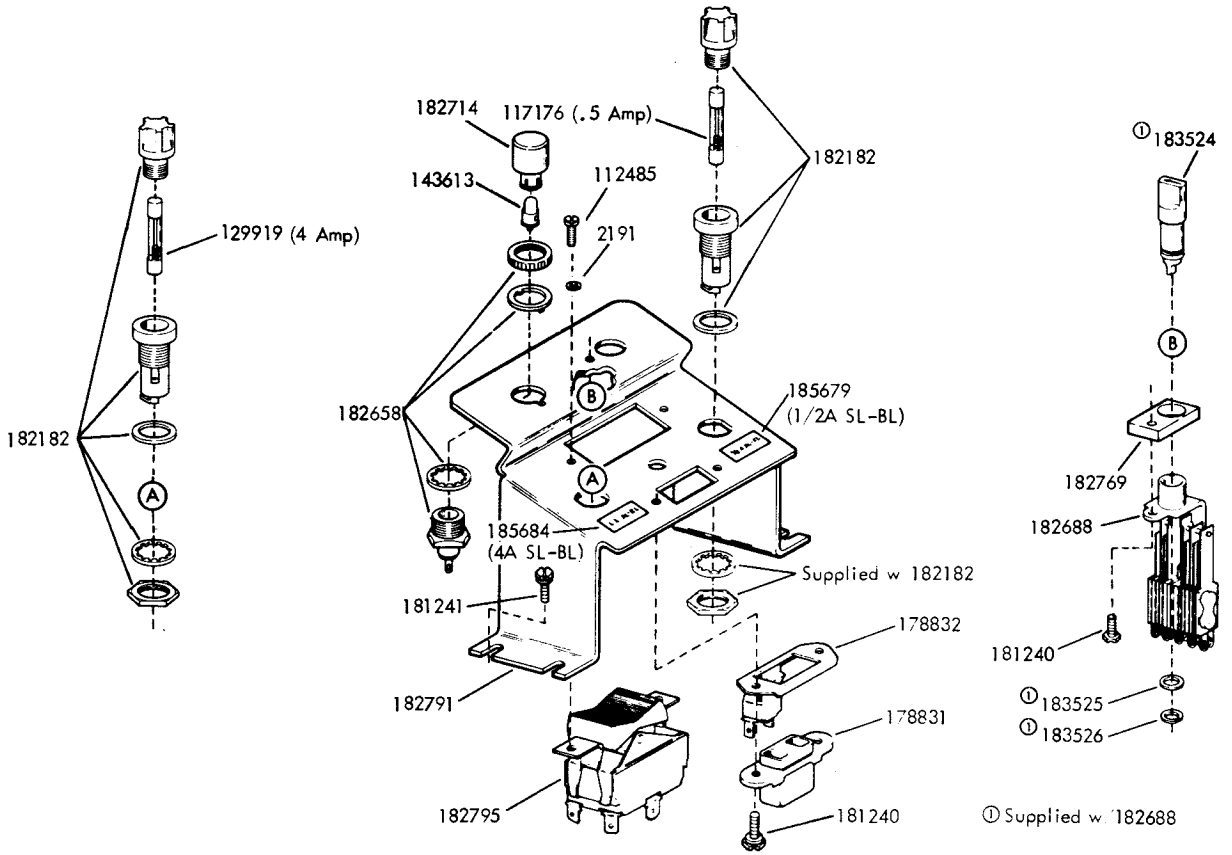


FIGURE 6. RECEIVE-ONLY LAMP AND KEY BRACKET

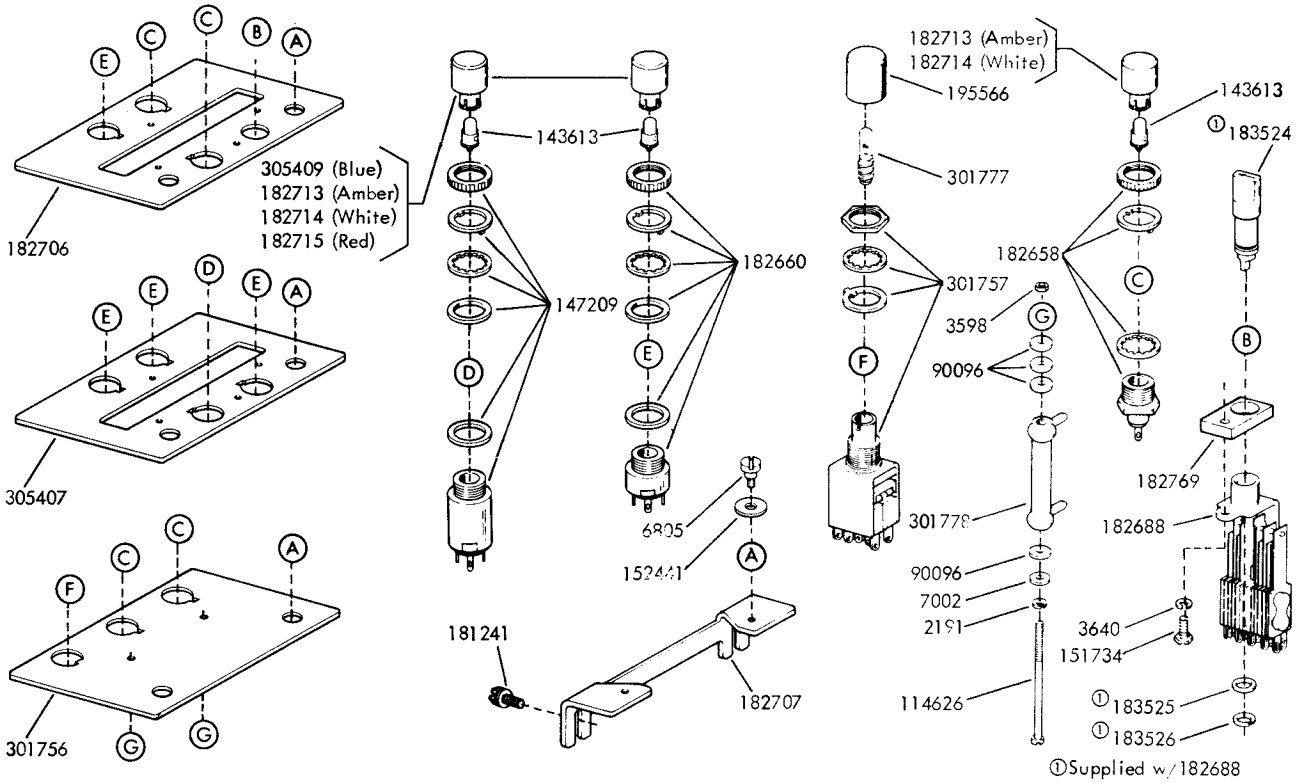


FIGURE 7. PILOT PLATE ASSEMBLIES

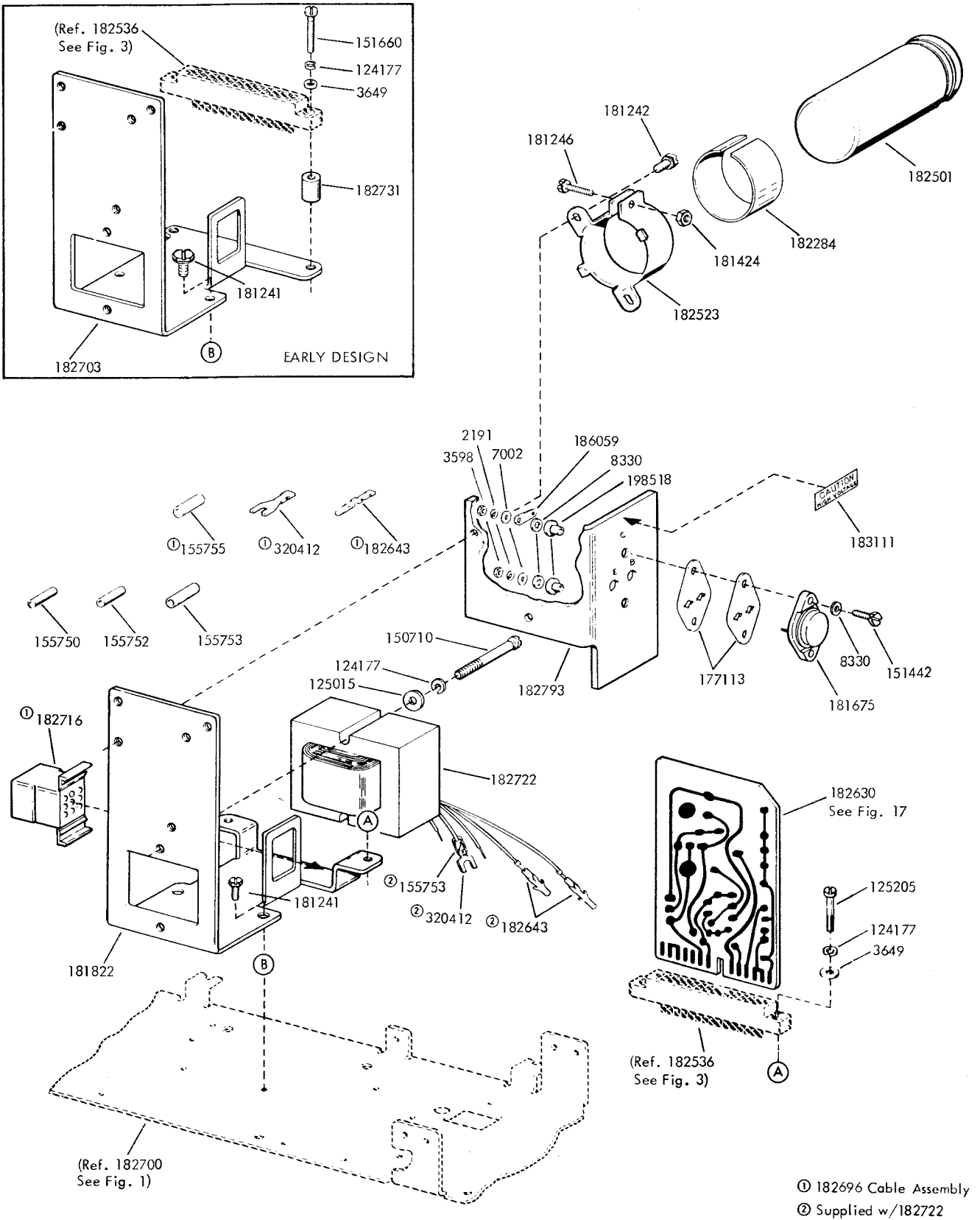


FIGURE 8. 182695 SELECTOR MAGNET DRIVER ASSEMBLY

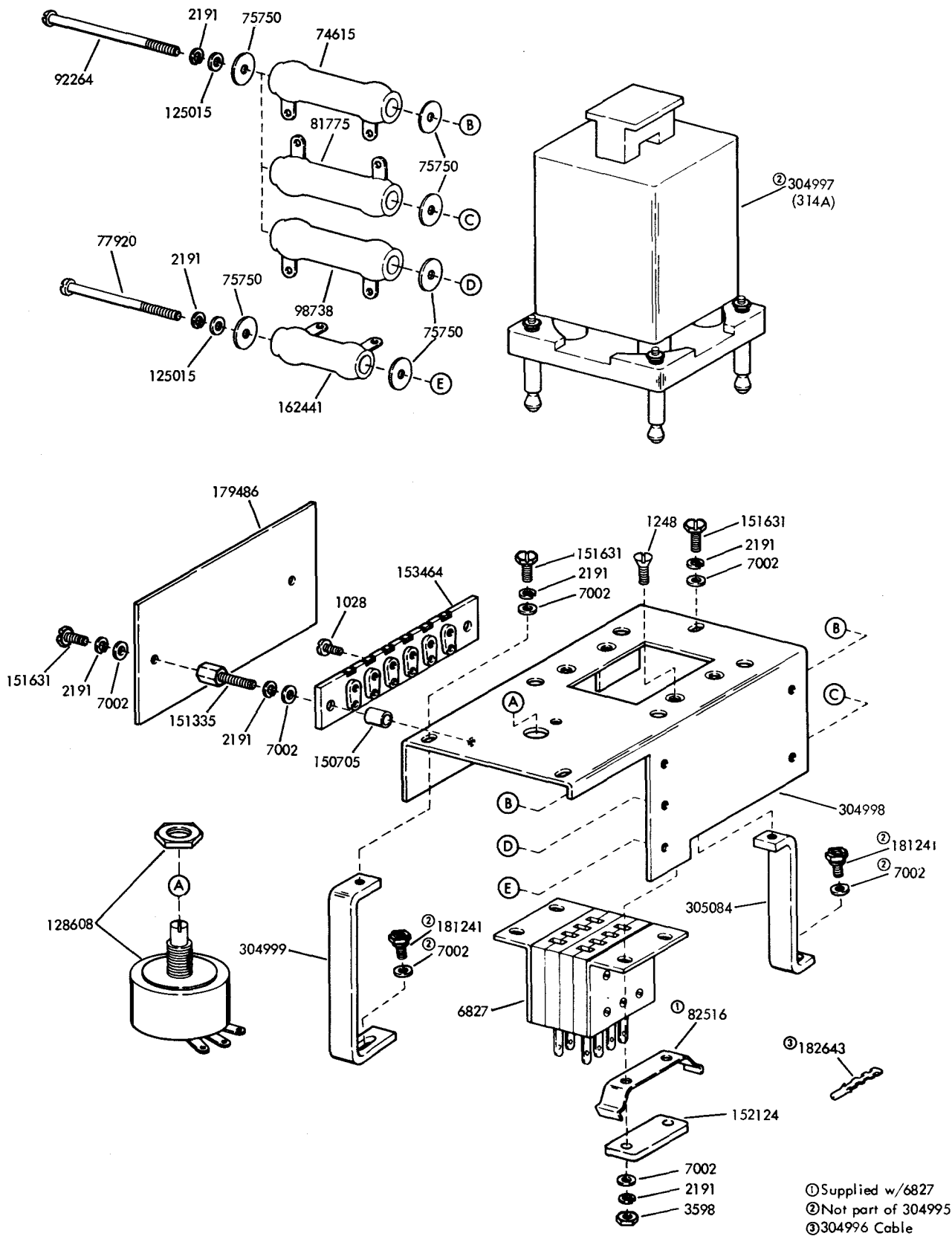

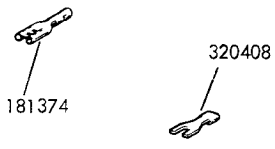
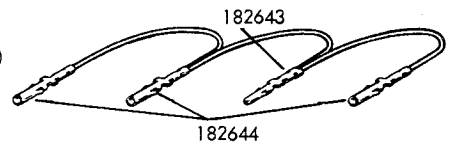
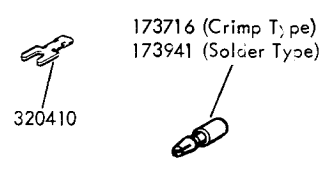


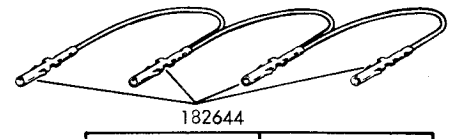
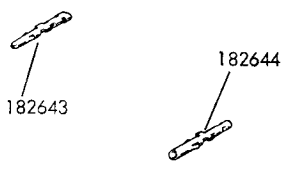
FIGURE 9. 304995 LINE RELAY MOUNTING ASSEMBLY



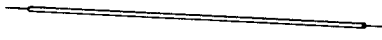
INSULATING SLEEVES		
		
PART NO.	Length	Inside Diameter
155750	1/2"	3/32"
155751	1"	1/8"
155752	1/2"	5/64"
155753	1/2"	1/8"
155754	1/2"	1/16"
155755	5/8"	11/64"
181890	1"	1/16"
181891	2 1/2"	3/16"
181892	1"	9/64"
181893	1 1/2"	3/64"
181894	2"	3/64"
181895	3/8"	9/64"

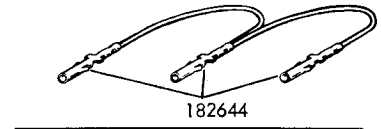
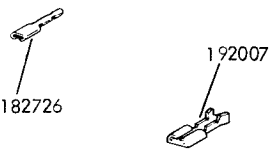


PART NO.	COLOR
181828	W-O
181829	W-BL
181830	W-Y
181831	W-P
181832	W-BR



PART NO.	COLOR
180877	W-R
180880	W-G
180884	W-S

JUMPERS			
			
Part No.	Length	Color	Terminal
151819	3"	Black	320410
193476	2-3/4"	Black	182643



PART NO.	COLOR
182781	W-R

320408 - Used with #2 or 4 Screw  
320411 - Used with #6 or 8 Screw

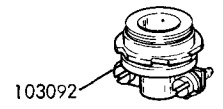
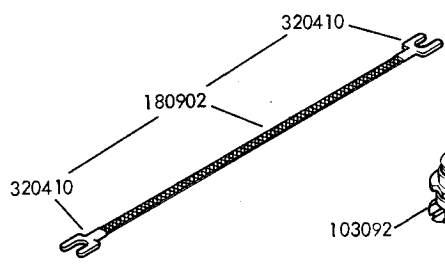
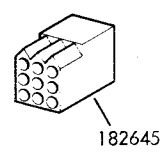
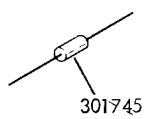
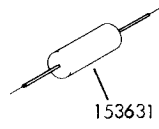
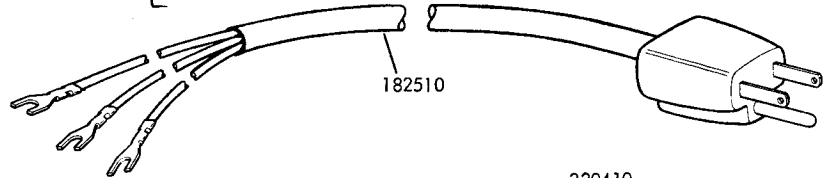
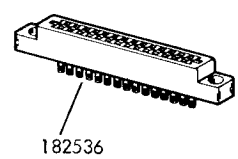
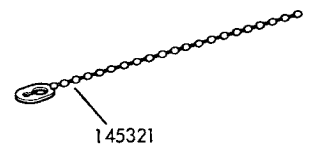
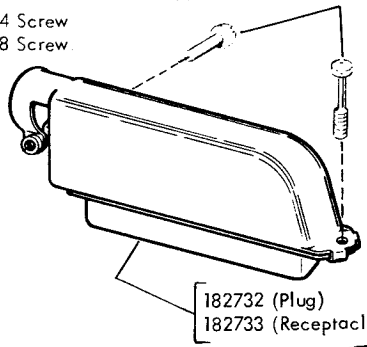
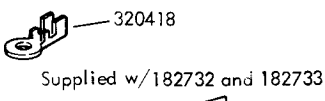
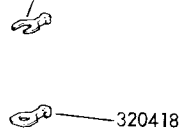


FIGURE 10. CABLE COMPONENTS

KEY ASSEMBLY PART LOCATION TABLE											
ASSEMBLY NO.			182580	182581	182582	182583	182584	182586	182587	182588	182589
P O S I T I O N	A	Plunger Switch	182559 182561		182559 182562	182667 182664	182667 182562	182667 182562	182667 182664	182667 182562	182559 182562
	B	Plunger Switch	182559 182560	182667 182562	182559 182562	182667 182562	182667 182562	182663 182664	182667 182562	182667 182562	182559
	C	Plunger Switch	182559 182561	182667	182559 182562	182667 182664	182559 182562	182667 182562	182667 182664	182667 182664	182559 182559
	D	Plunger Switch	182559 182562	182667 181638	182559 182562	182667 182664	182559 182562	182667 182664	182667 182562	182667 182562	182559 182562
	E	Plunger Switch	182559 182562	182667 182562	182559 182561	182667 182562	182559 182562	182667 182664	182667 182664	182667 182664	182559 182562
	F	Plunger Switch	182559 182561		182559 182562	182663 182561	182559 182562	182663 182561	182663 182561	182663 182561	182559 182562
Plunger Spring			182554	182554	182554	182554	182554	182554	182554	182554	182554
Lockout			182556		182556					182556	182556
Latch Bar			182555		182666		308536			301769	182666
Latch Spring			182535		182535		182535			182535	182535
Bracket			182557	181637	182557	182557	182557	182557	182557	182557	182557

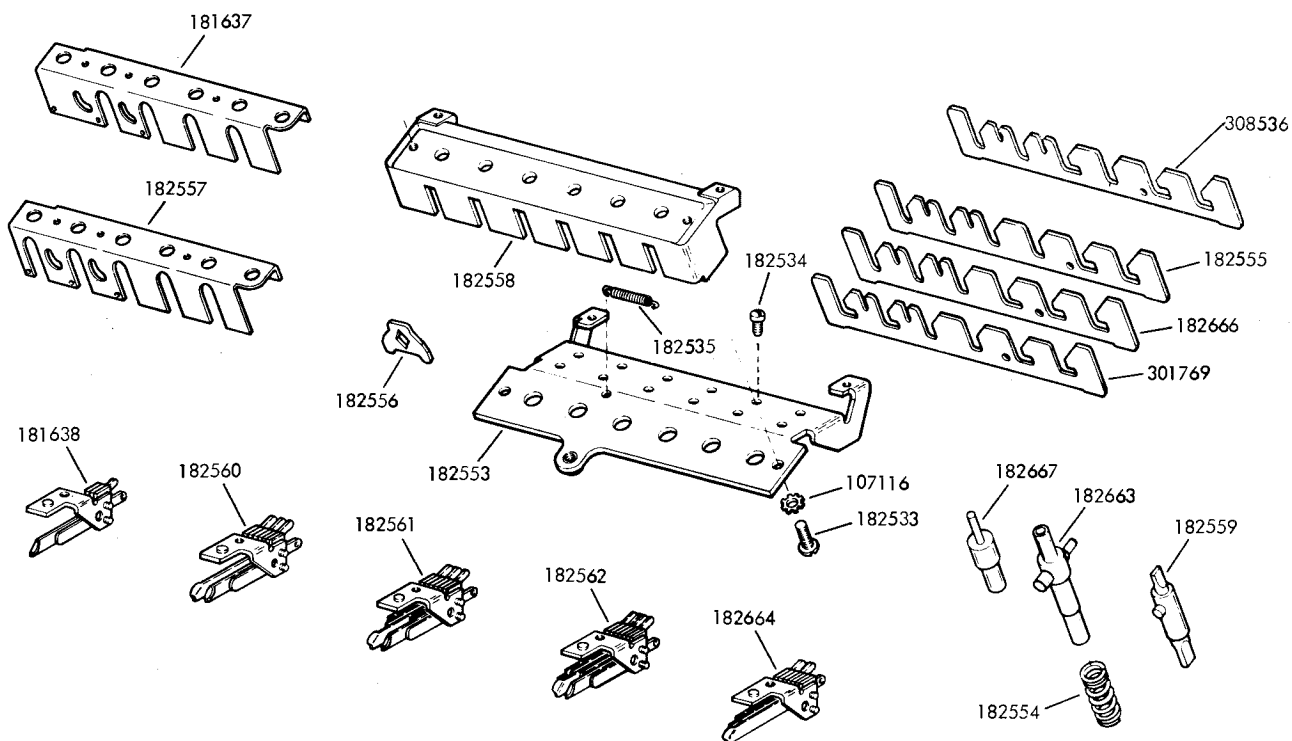
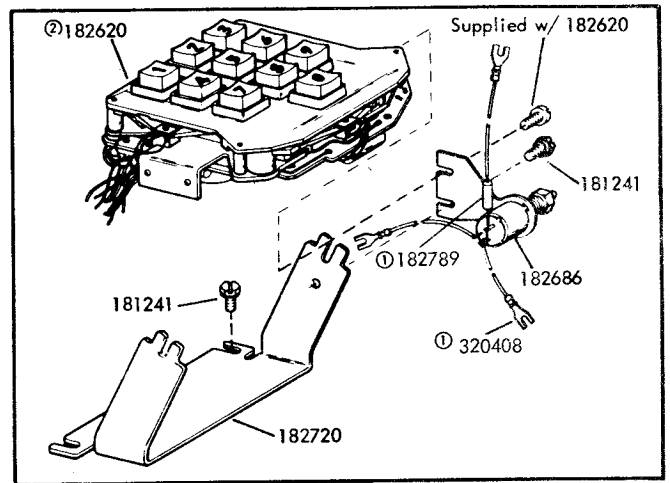
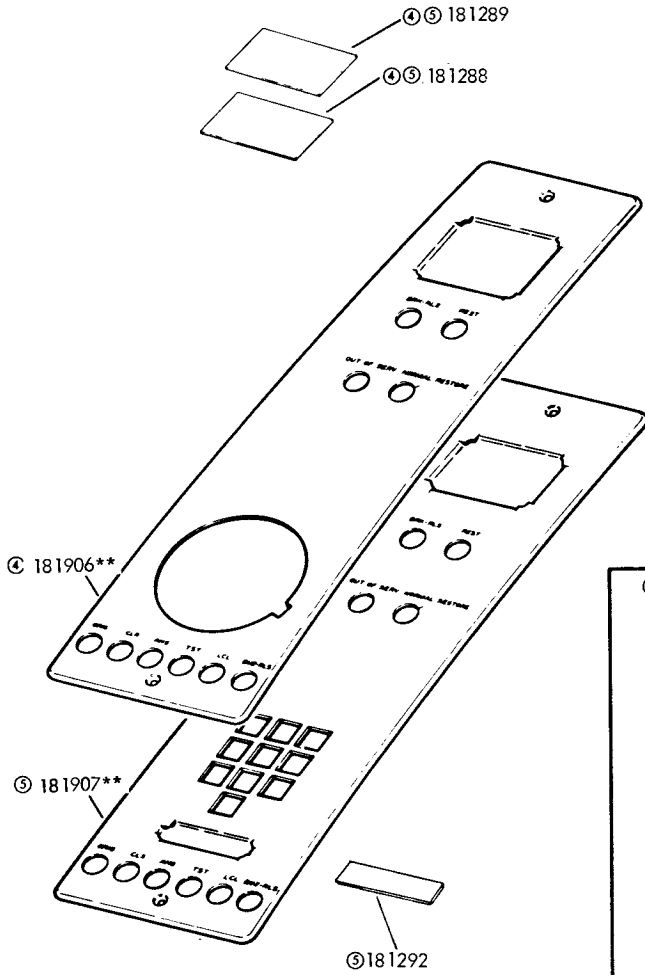
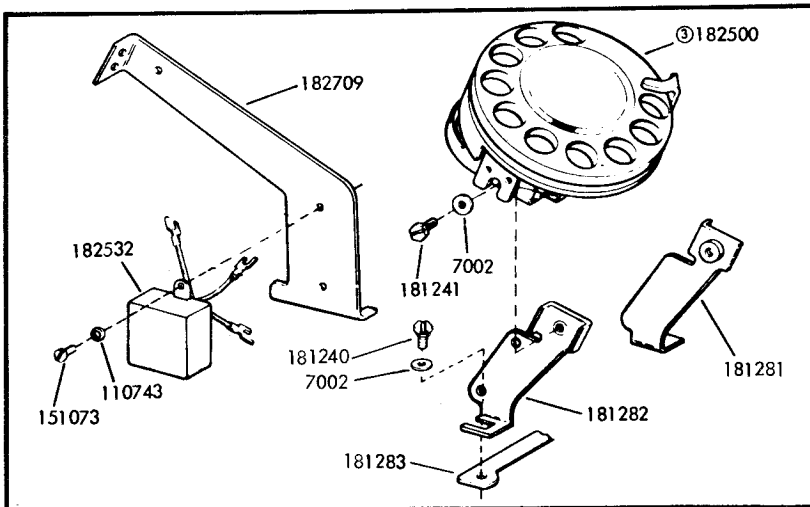


FIGURE 11. KEY ASSEMBLIES



Touch Tone Dial - Part of 193487 (with dial)



Rotary Dial - Part of 195926 (less dial) and 193489 (with dial)

Specification 501565

\*\*Refer to page 1 for finish suffix

① Supplies w/ 182686

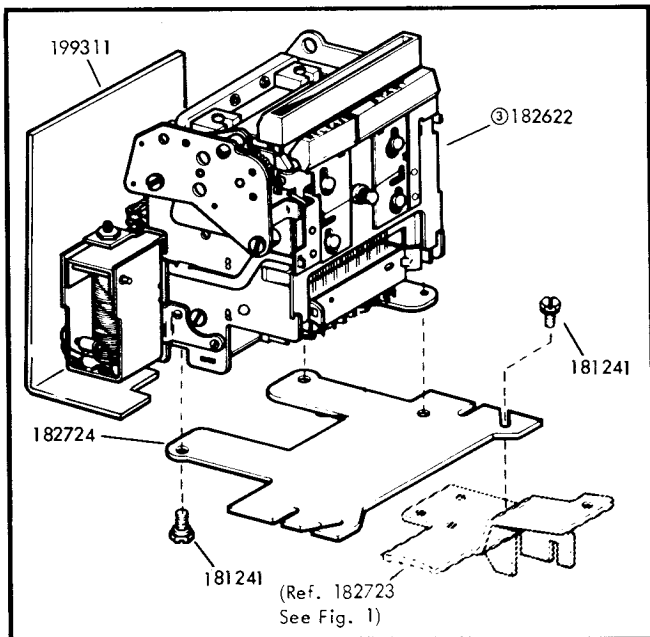
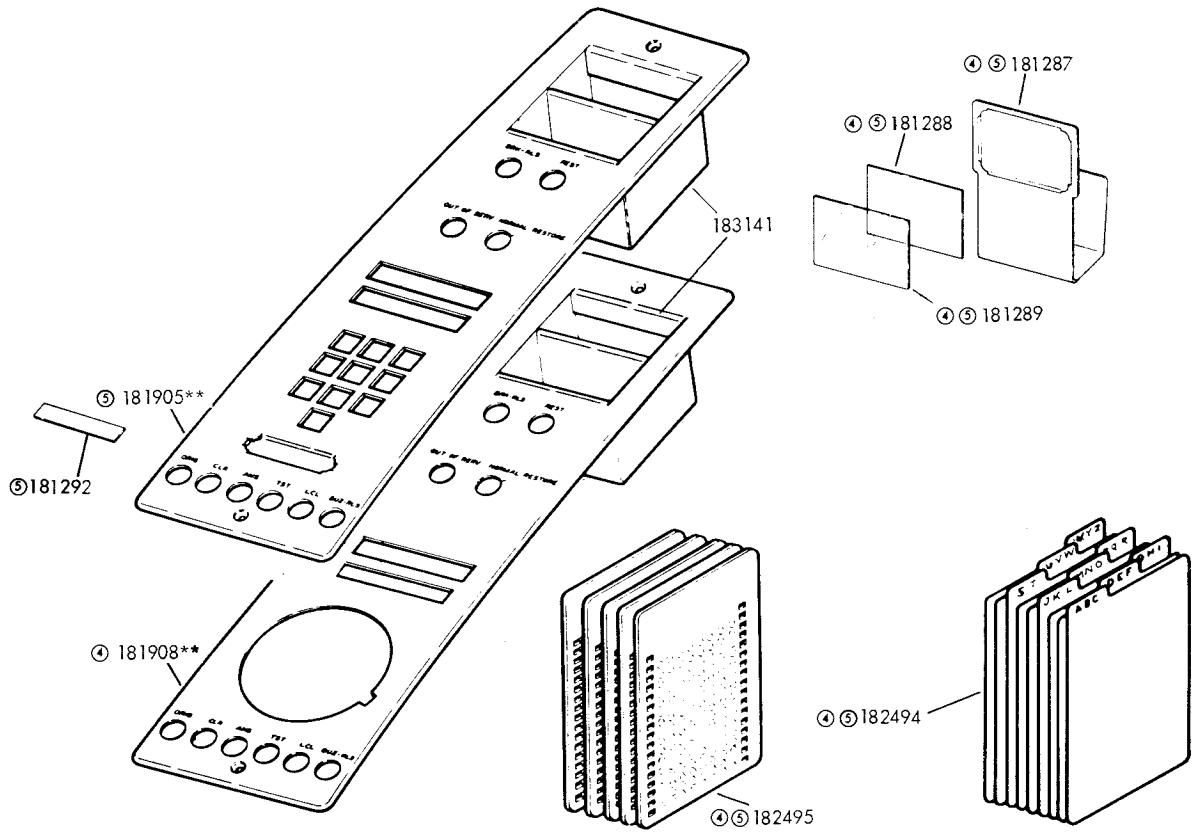
② Peculiar to 193487

③ Peculiar to 193489

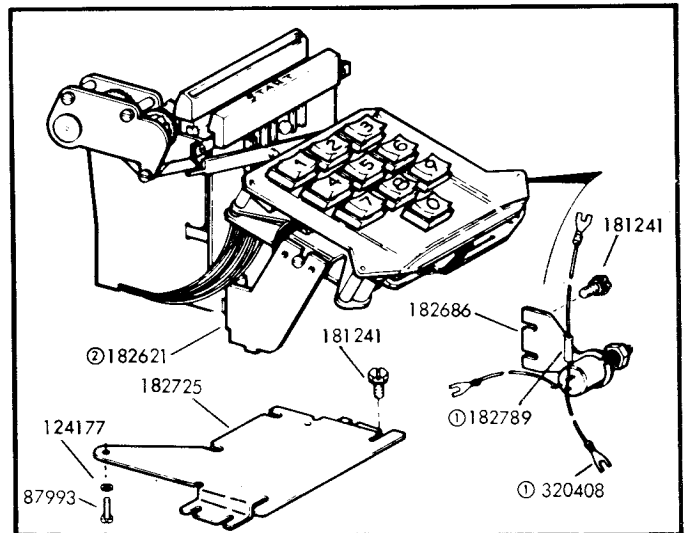
④ Part of 195926 and 193489

⑤ Part of 193487

FIGURE 12. DIAL MODIFICATIONS



DC Card Dial - Part of 195924 (less dial) and 193486 (with dial)



Touch tone and Card Dial - Part of 195927 (less dial) and 193488 (with dial)

Specification 501565

\*\*Refer to page 1 for finish suffix

① Supplied w/ 182686

② Peculiar to 193488

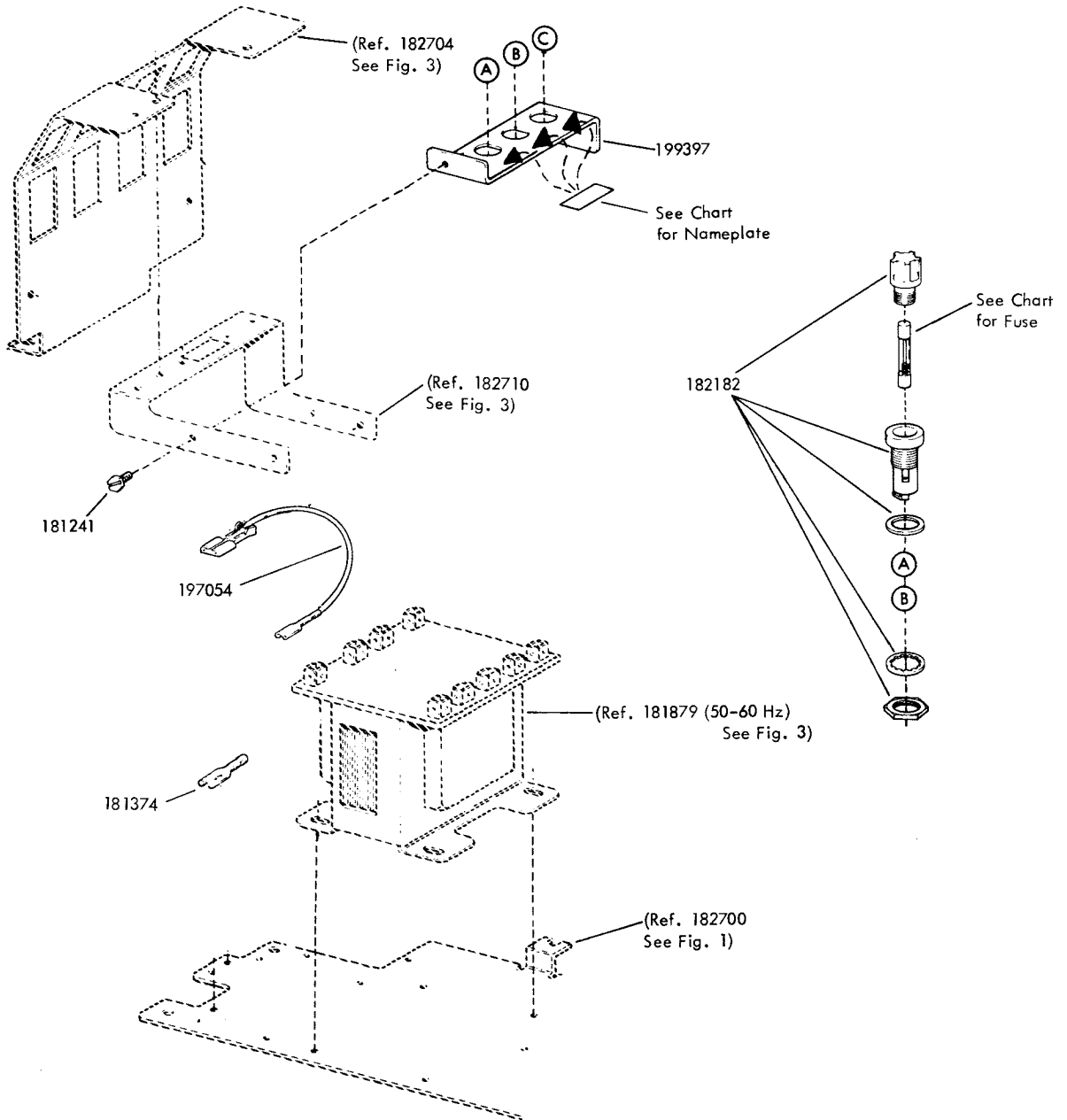
③ Peculiar to 193486

④ Part of 195924 and 193486

⑤ Part of 195921 and 193488

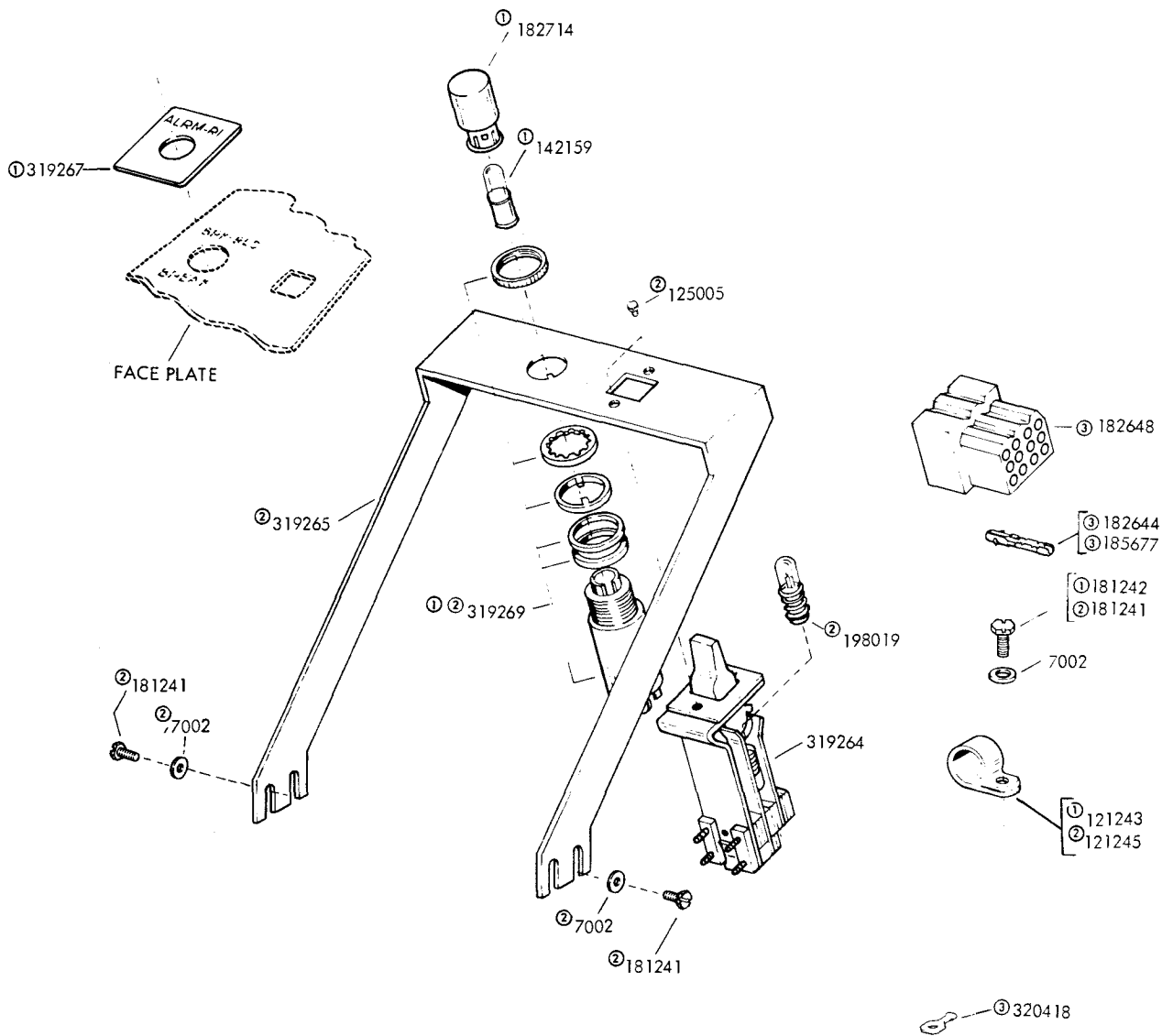
FIGURE 13. DIAL MODIFICATIONS (Continued)

Fuse and Nameplate Chart				
Location	Fuse	Nameplate	Description	Notes
A	162360	185688	8/10 A SL-BL	Used w/181879 Trnsf.
B	117176	185679	1/2A SL-BL	Used w/181879 Trnsf.
C		185678	3/8 A SL-BL	



Specification 504235

FIGURE 14. 199409 MODIFICATION KIT TO PROVIDE FUSING IN THE PRIMARY OF THE CALL CONTROL LOW VOLTAGE TRANSFORMER

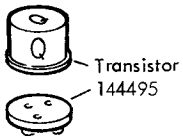
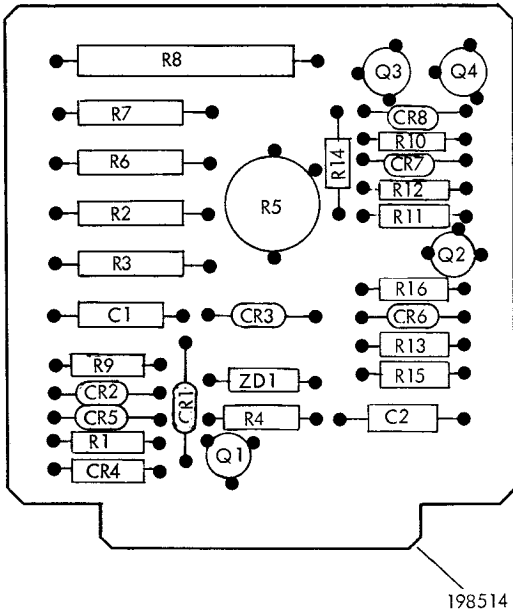


Specification 50,4665

- ① Peculiar to 319274
- ② Peculiar to 320489
- ③ 319263 Cable Assembly, Supplied w/ 320489

FIGURE 15. 319274 AND 320489 MODIFICATION KITS TO ADD ALARM LAMPS WITH RELEASE SWITCHES





Reference Designation	Part Numbers	Total Qty	Description
R1	182797	1	Resistor 135 Ohm
R2	181669	1	330 Ohm 2.5W
R3	182627	1	390 Ohm 4W
R4	182778	1	.82 Ohm 2.5W
R5	182775	1	Rheostat 3 Ohm 5W
R6	181717	1	Resistor 8 Ohm 5W
R7	182770	1	270 Ohm 4W
R8	182772	1	14 Ohm 10W
R9	182776	1	150 Ohm
R10	181664	1	1 K Ohm 1W
R11	137438	1	100 Ohm
R12	137441	1	1200 Ohm
R13 & 16	137444	2	8200 Ohm
R14	137440	1	1 K Ohm
R15	118724	1	220 Ohm
C1	182628	1	Capacitor - 10MFD
C2	181665	1	Capacitor - 100MFD
CR1	178844	1	Varistor - 100 AMP
CR2, 3, 6, 7 & 8	181619	5	Diode - 1N482
CR4, 5	182520	2	Diode - 1N3193
Q1	181671	1	Transistor 2N1377
Q2 & 3	182505	2	Transistor - 2N1303
Q4	181625	1	Transistor - 2N1302
ZD1	182774	1	Diode, Zener -4.7V

FIGURE 18. 198515 CIRCUIT CARD ASSEMBLY



## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
181895	Sleeve, 9/64 ID x 3/8" Lg Insulating 10	182620	Dial, Touch Tone 6,12	182750	Card, Amplifier Circuit 1,4,16
181905**	Faceplate 13	182621	Dial, Touch Tone & Card 6,13	182751	Resistor, 3.6K Ohm 16
181906**	Faceplate 12	182622	Dial, DC Card 6,13	182752	Resistor, 43K Ohm 16
181907**	Faceplate 12	182627	Resistor, 390 Ohm 16,17	182753	Resistor, 130 Ohm 16
181908**	Faceplate 13	182628	Capacitor, 10 MFD 16,17	182754	Transformer 16
182090	Dial Assembly, Touch Tone & Card 6	182630	Card, Circuit 1,8,16	182755	Transformer 16
182091	Dial Assembly, Rotary 6	182643	Terminal, Plug Type 4,8,9,10	182761	Capacitor, 0.5 MFD 2
182092	Dial Assembly, Manual Touch Tone 6	182644	Terminal, Receptacle Type 10,15	182765	Plate, Volume Control 6
182093	Dial Assembly, DC Card 6	182645	Connector, 9 Pt Receptacle Type 10	182766	Resistor, 160 Ohm 16
182162	Post 5	182646	Connector, 9 Pt Plug Type 18	182767	Diode 16
182182	Holder, Fuse 4, 7, 14	182648	Connector, 12 Pt Receptacle Type 15	182768	Bracket, Fuse 4
182284	Insulator, .015" Thk 8	182649	Connector, 6 Pt Receptacle Type 18	182769	Block 7
182494	Card Set, Index 6,13	182658	Socket, Lamp 7	182770	Resistor, 270 Ohm 16,17,18
182495	Card Set, Dialing 6,13	182660	Switch, Pushbutton 7	182772	Resistor, 14 Ohm 16,17
182500	Dial, Rotary 3, 6, 12	182661	Holder, Fuse 5	182773	Potentiometer 16
182501	Capacitor, 1,500 MFD 5,8	182662	Receiver 11	182774	Diode 16,17
182502	Nut, #14 Speed 2	182663	Plunger 11	182775	Card, Circuit 16,17
182503	Ringer w/Terminals 2	182664	Contact Assembly 11	182776	Resistor, 150 Ohm 16,17
182505	Transistor 17,18	182666	Bar, Latch 11	182777	Resistor, 680 Ohm 16
182510	Cord, Power 10	182667	Plunger 11	182778	Resistor, .82 Ohm 16,17
182520	Rectifier 16,17	182669	Relay, Power 2	182779	Resistor, 420 Ohm 16
182523	Clamp, 1-3/8" ID Mounting 8	182686	Resistor Assembly, 50,000 Ohm 6,12,13	182781	Jumper, 2-3/4" White-Red 10
182524	Button Assembly 3	182688	Switch, Turn Button 7	182789	Resistor, 200 Ohm 6,12,13
182527	Screw, 4-40 Shoulder 3	182695	Driver Assembly, Selector Magnet 1,8	182791	Bracket 7
182529	Lamp, 10V 3	182696	Cable Assembly 8	182792	Capacitor, 1 MFD 16
182532	Filter 2,12	182698	Cable w/Terminal 6	182793	Plate, Heat Sink 8
182533	Screw, 6-32 x 5/16 Rd 11	182700	Plate, Base 2,4,8,14	182795	Switch, DP-DT 7
182534	Screw, 4-40 Spl 11	182703	Bracket 8	182796	Insulator, .032" Thk 4
182535	Spring 11	182704	Bracket 4,14	182797	Resistor, 125 Ohm 17
182536	Connector, 15 Pt Circuit Card 4,5,8,10	182706	Plate, Pilot 7	182799	Capacitor, .20 -.30 MFD 4
182539	Connector, 15 Pt Receptacle Type 4,5	182707	Bracket, Pilot 7	183111	Label 8
182540	Connector, 15 Pt Plug Type 4	182708	Bracket, Left 2	183141	Holder, Card 13
182553	Plate, Base 11	182709	Bracket, Right 2,12	183524	Button, Turn 7
182554	Spring, Compression 11	182710	Bracket, Upper 4,14	183525	Washer, Flat 7
182555	Bar, Latch 11	182711	Bracket, Lower 4	183526	Ring, Retaining 7
182556	Lockout 11	182713	Cap, Amber Lens 7	185677	Terminal, Receptacle Type 15
182557	Bracket 11	182714	Cap, White Lens 7,15	185678	Plate, Identification 5,14
182558	Frame 11	182715	Cap, Red Lens 7	185679	Plate, Identification 4,7,14
182559	Plunger 11	182716	Connector, 9 Pt Plug Type 8	185684	Plate, Identification 4,7
182560	Contact Assembly 11	182717	Board, Terminal 3	185686	Plate, Identification 4
182561	Contact Assembly 11	182718	Buzzer, 10V AC 2	185688	Plate, Identification 4,14
182562	Contact Assembly 11	182719	Bracket, Guide 4	186059	Terminal 8
182563	Plate w/Bracket 3,5	182720	Bracket,Dial 6,12	192007	Terminal, Tab Type 10
182564	Bracket 11	182721	Bracket 2	192285	Bracket, Receptacle 4
182565	Bracket 3	182722	Transformer w/Terminals 8	193434	Button Assembly 3
182566	Bracket, Left 3	182723	Bracket 2,3,6,13	193438	Strip, Lamp 3
182569	Clamp 5	182724	Plate, Dial 6,13	193472	Plug w/Straps 4
182571	Screw, 6-40 Shoulder 3	182725	Plate, Tone Dialer 6,13	193476	Jumper, 2-3/4" Black 4,10
182576	Bracket, Right 3	182726	Terminal, Receptacle Type 10	193486	Modification Kit 13
182577	Bracket 3	182727	Bracket, Left 6	193487	Modification Kit 12
182580	Key Assembly 11	182728	Bracket, Right 6	193488	Modification Kit 13
182581	Key Assembly 11	182729	Link, Ringer 2	193489	Modification Kit 12
182582	Key Assembly 11	182731	Post 4,8	195239	Capacitor, 10 MFD 16
182583	Key Assembly 11	182732	Connector, 50 Pt Plug 10	195566	Cap, Blue Lens 7
182584	Key Assembly 11	182733	Connector, 50 Pt Receptacle 10	195614	Pin, Key 4,5
182586	Key Assembly 11	182743	Card, Circuit 16	195618	Jumper, 5-1/4" White-Purple 18
182587	Key Assembly 11	182744	Transistor 16	195921	Modification Kit 13
182588	Key Assembly 11	182745	Transistor 16	195924	Modification Kit 13
182589	Key Assembly 11	182746	Capacitor, 5 MFD 16	195926	Modification Kit 12
182611	Fuse, 1-3/8 Amp 5	182747	Capacitor, 60 MFD 16	195927	Modification Kit 13
182615	Pod 5	182748	Capacitor, 100 MFD 16	197054	Jumper, 3" Black 14
182619	Screw, 6-40 Shoulder 2	182749	Capacitor, 1 MFD 16	198019	Lamp, 6V 15
				198514	Card, Circuit 17
				198515	Card, Circuit 1,5,17
				198517	Bracket 5
				198518	Bushing, Insulating 5,8
				198519	Insulator 5

\*\*Refer to page 1 for finish suffix

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
198520	Insulator, .062" Thk 5	301757	Switch, Illuminated Pushbutton 7	305453	Transformer w/Terminals 5
198521	Bracket 5	301759	Capacitor, .40-.60 MFD 4	305454	Transformer 5
198522	Clip, Spring 5	301766	Resistor, 270 Ohm 4	305688	Card, Circuit 1,5,8
198528	Bracket 5	301769	Bar, Latch 11	308536	Gear Set, 100 WPM 11
198529	Strip, Terminal 5	301777	Lamp, 14V 7	319263	Cable Assembly 15
199311	Insulator 6,13	301778	Resistor, 75 Ohm 7	319264	Switch 15
199397	Bracket, Fuse 4,14	304661	Card, Circuit 18	319265	Bracket 15
199409	Modification Kit 1,14	304992	Bushing, Blocking 3	319267	Plate, Identification 15
199442	Diode 16	304995	Mounting Assembly, Line Relay 1,9	319274	Modification Kit 1,15
300340	Bushing 2,4	304996	Cable 9	319269	Cable Assembly 15
301706	Plate, Mounting 2	304997	Relay, Line Mercury 9	320408	Terminal, Spade Type 6,10,12,13
301712	Ringer 2	304998	Plate, Relay Mounting 9	320410	Terminal, Spade Type 10
301721	Resistor, 5,000 Ohm 6	304999	Bracket 9	320411	Terminal, Spade Type 10
301743	Dial, Touch Tone 6	305084	Bracket 9	320412	Terminal, Spade Type 8
301745	Diode 10	305407	Plate, Pilot 7	320418	Terminal, Ring Type 10,15
301756	Plate, Pilot 7	305409	Cap, Blue Lens 7	320489	Modification Kit 1,15

35 AUTOMATIC SEND-RECEIVE CABINET (LAAC) - ASR  
PARTS

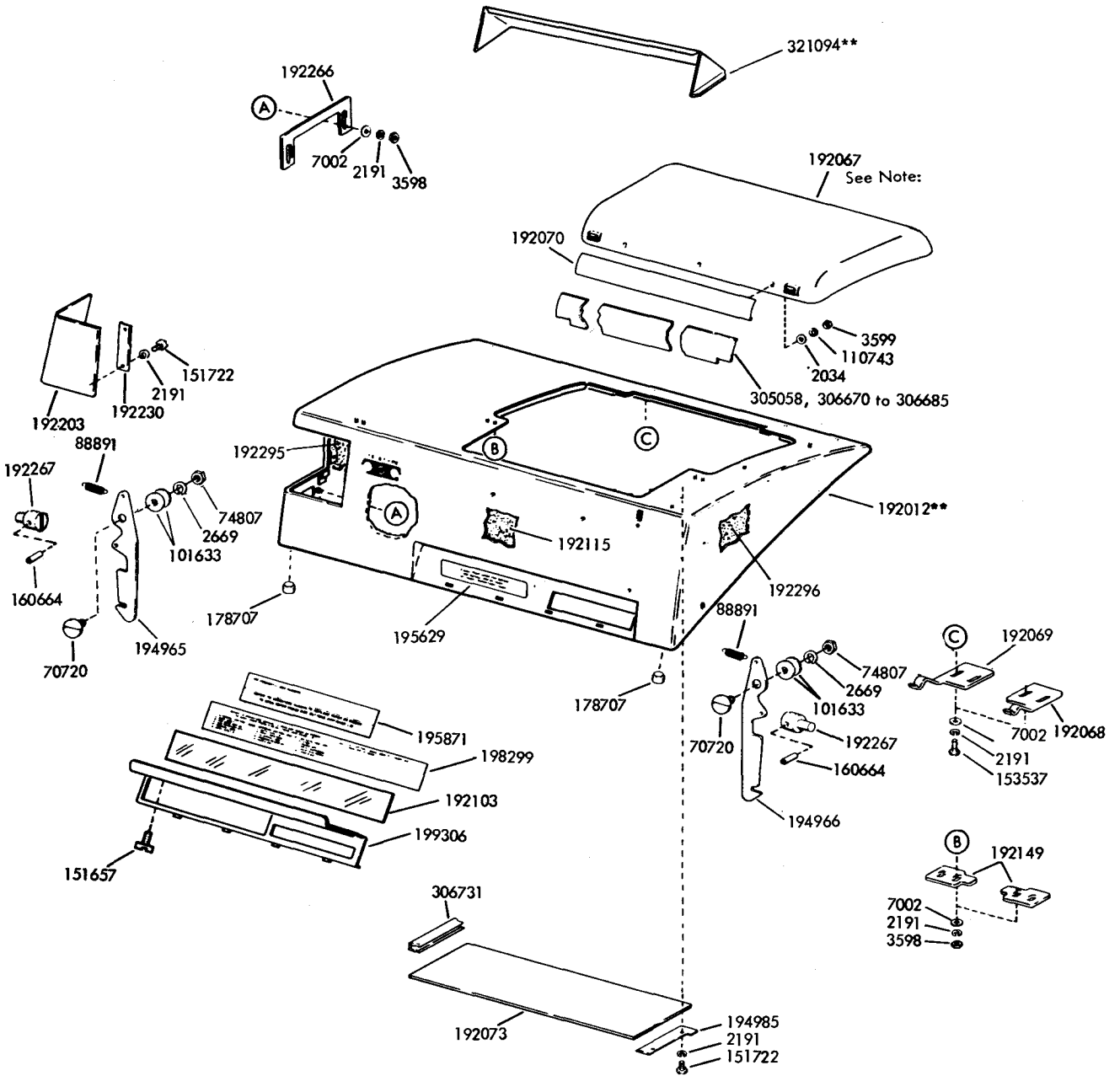
FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Upper Cover	2	14	Modification Kits to Provide	
2	Lower Cover	3		Shelves for Tape Winders and	
3	Pedestal and Mounting Rack	4		Unwinders	15
4	Frame and Mounting Brackets	5	15	307228** Modification Kit to	
5	Control Panels	6		Add Offset Copyholder	16
6	Control Panels (Continued)	7	16	195833** and 198177**	
7	Control Panels and Components	8		Modification Kits to Provide	
8	Control Panel Components	9		Housing for the Auxiliary	
9	Face Plates	10		Reperforator	17
10	Lamp Bracket and Line Guide		17	Cover Plates and Tape Chutes	18
	Assemblies	11	18	312411** Keypad Switch	
11	Paper Handling and Directory			Assembly	19
	Holder Modification Kits	12	19	Module Mounting Facilities	19
12	301677** Telephone Assembly	13	20	329018 Bubble Assembly	20
13	Speaker, Signal Bell and		21	Faceplates	20
	Hand Held Receiver	14			

PAINT FINISH COLOR CODE CHART

(For parts and assemblies requiring a paint finish)

COLOR	Finish Suffix				COLOR	Finish Suffix			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl		Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Aluminum		FA			Gray, Dark Metallic		BW		
Aqua, Light				HK	Gray, Federal		BV	GG	
Beige		ET			Gray, Light		EJ		HB
Beige, Light		EL		HC	Gray, Light Olive		EW	GE	HF
Beige, Rose		ER			Gray, Maritime				
Black	AA		GK		Engine		BY		
Black, High Gloss		BA			Gray, Maritime	AJ	BJ		
Black, Semi Gloss		BB			Deck		BS		
Blue, Aqua		EK			Gray, Medium		EP		
Blue, Brussels Light		EC			Gray, Oxford				
Blue, Medium		ES			Green, Gray	AB	BK	GA	
Brown, Dark	AD				Green, Moss		EN		HD
Brown, Light	AC				Ivory		EM		HJ
Brown, Mahogany		EQ			Pink, Rose		EU		
Fawn				HG	Red, Cherry		EF		
Gray, Beige			GC		Turquoise		EV		
Gray, Charcoal	AL	BZ	GF	HA	White		EH		
Gray, Dark			GB		Yellow, Pastel		EG		
Gray, Dark Covert		FC		HE					

The double asterisk (\*\*) denotes a painted part. Suffix to be applied following the part number.



Note:  
 Bubble Assembly Used for  
 Single Sheet Insertion. See Fig. 19.  
 \*\*Refer to page 1 for finish suffix.

FIGURE 1. UPPER COVER

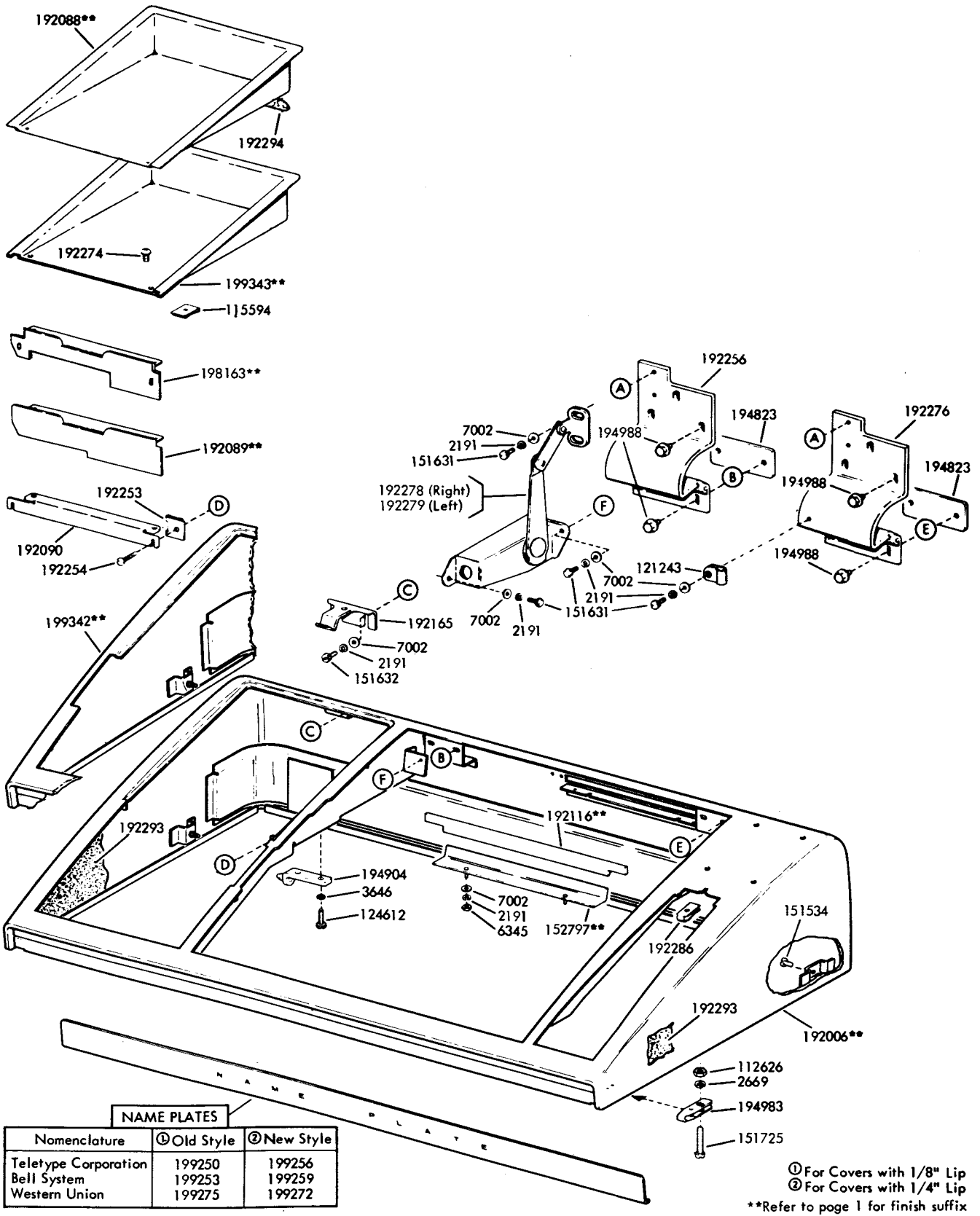
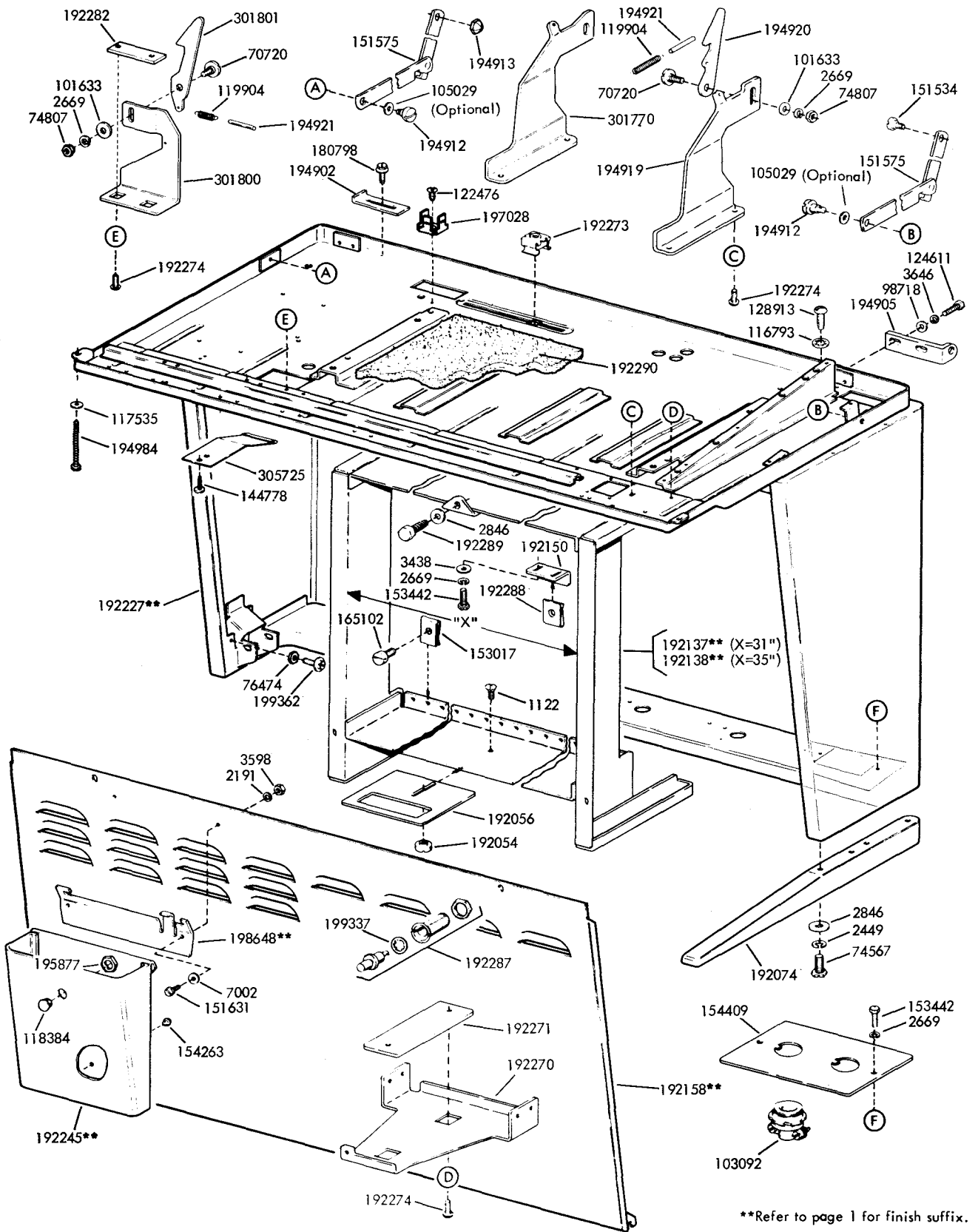


FIGURE 2. LOWER COVER



\*\*Refer to page 1 for finish suffix.

FIGURE 3. PEDESTAL AND MOUNTING RACK

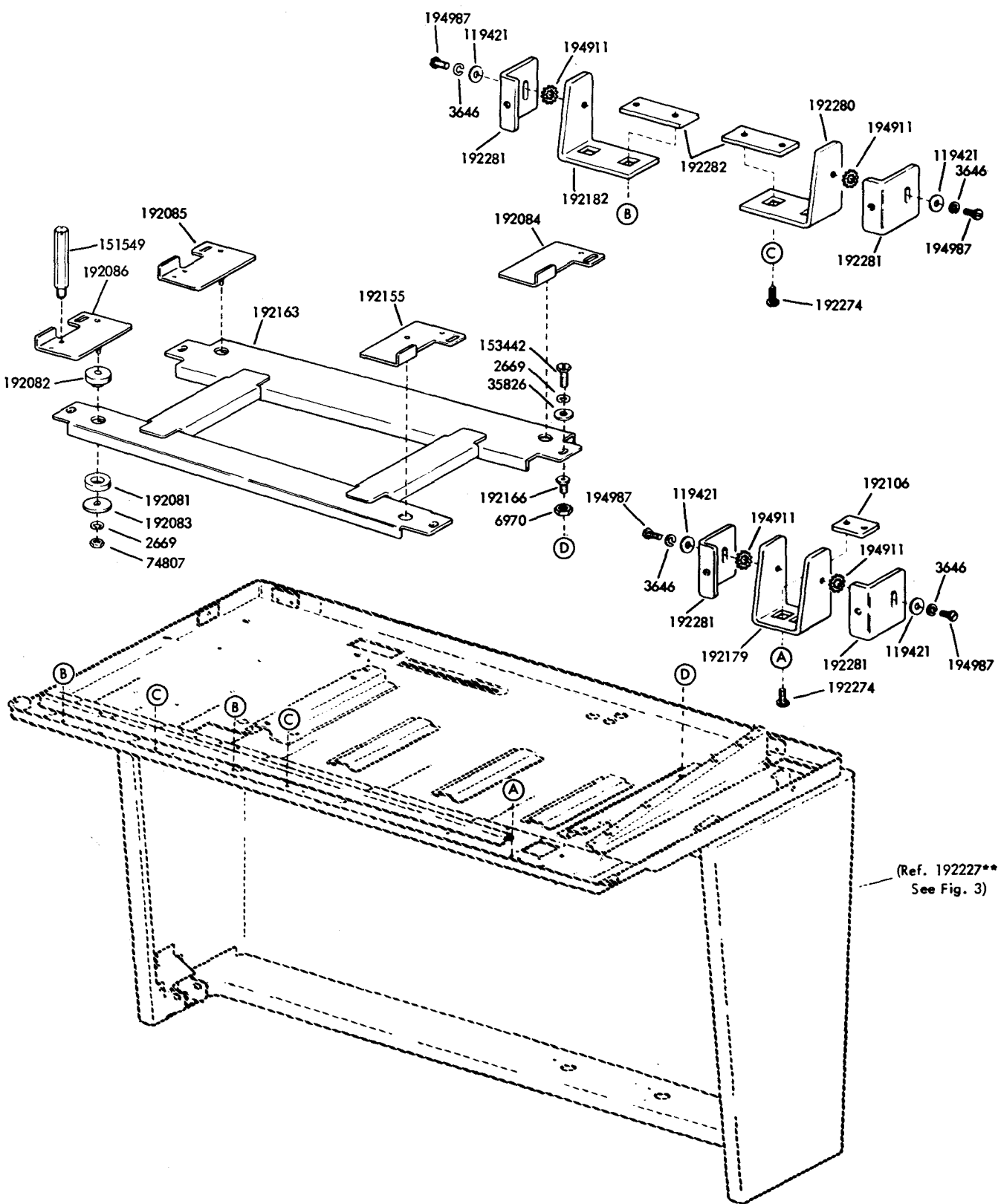
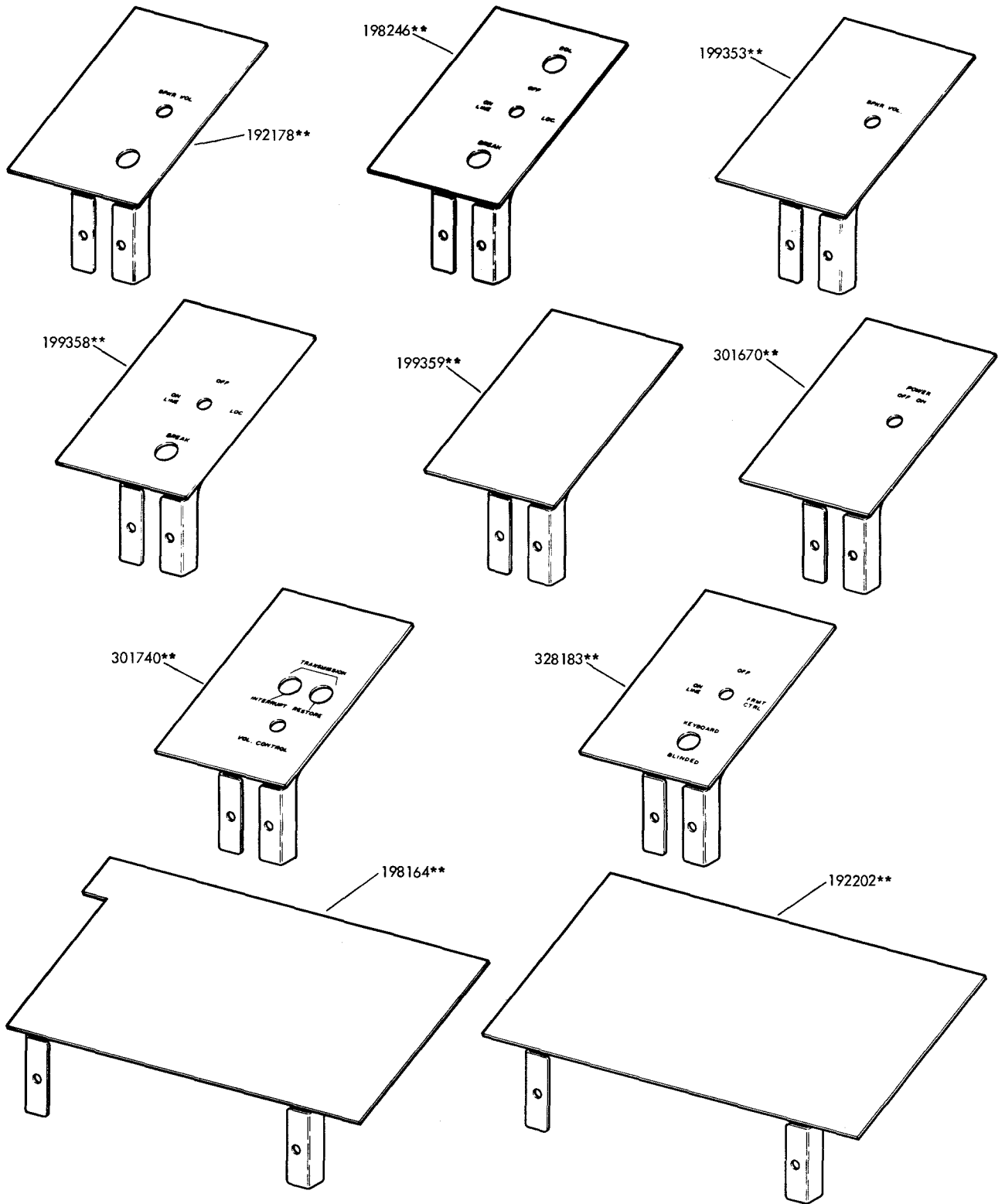


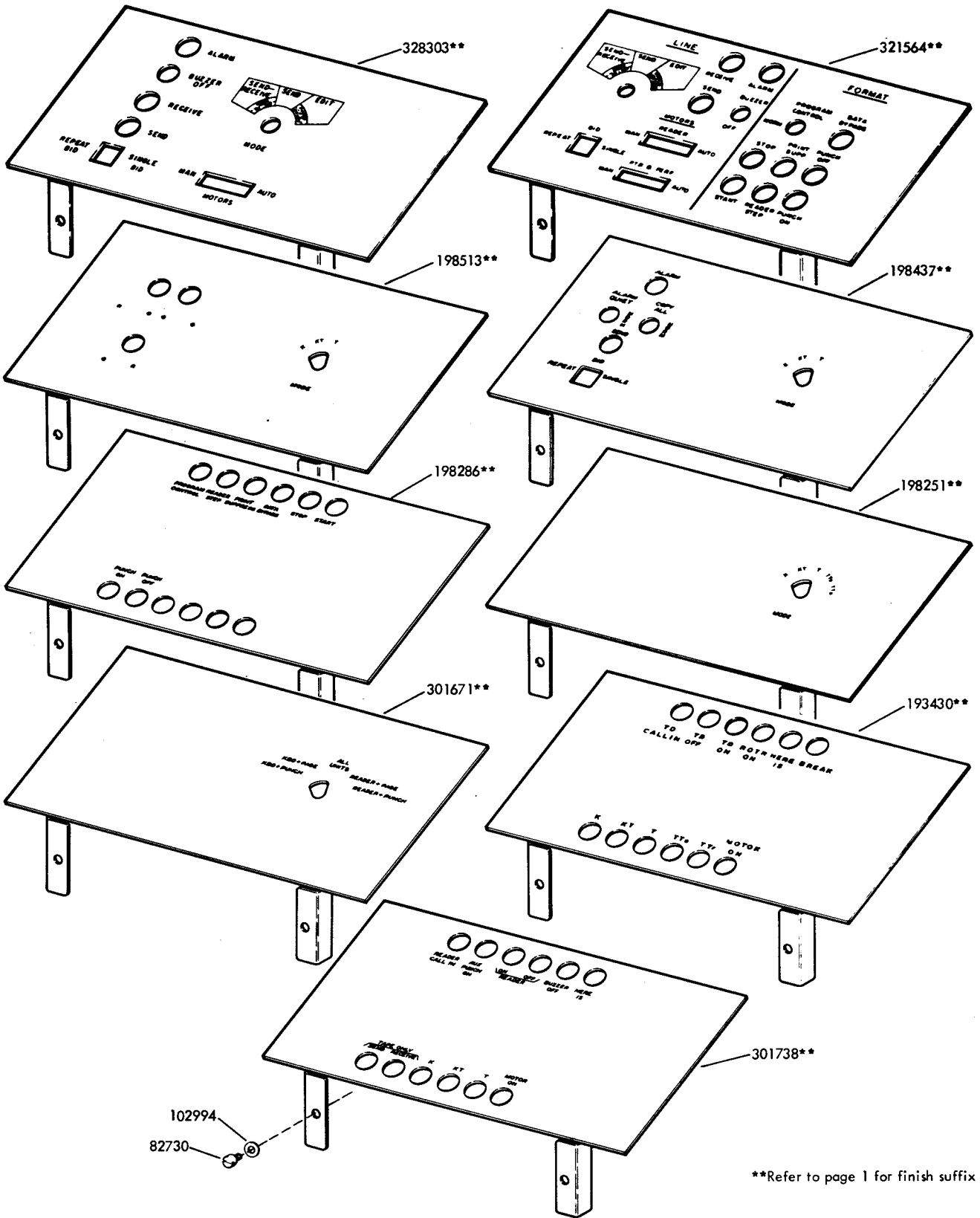
FIGURE 4. FRAME AND MOUNTING BRACKETS



\*\*Refer to page 1 for finish suffix

FIGURE 5. CONTROL PANELS





\*\*Refer to page 1 for finish suffix

FIGURE 6. CONTROL PANELS (Continued)

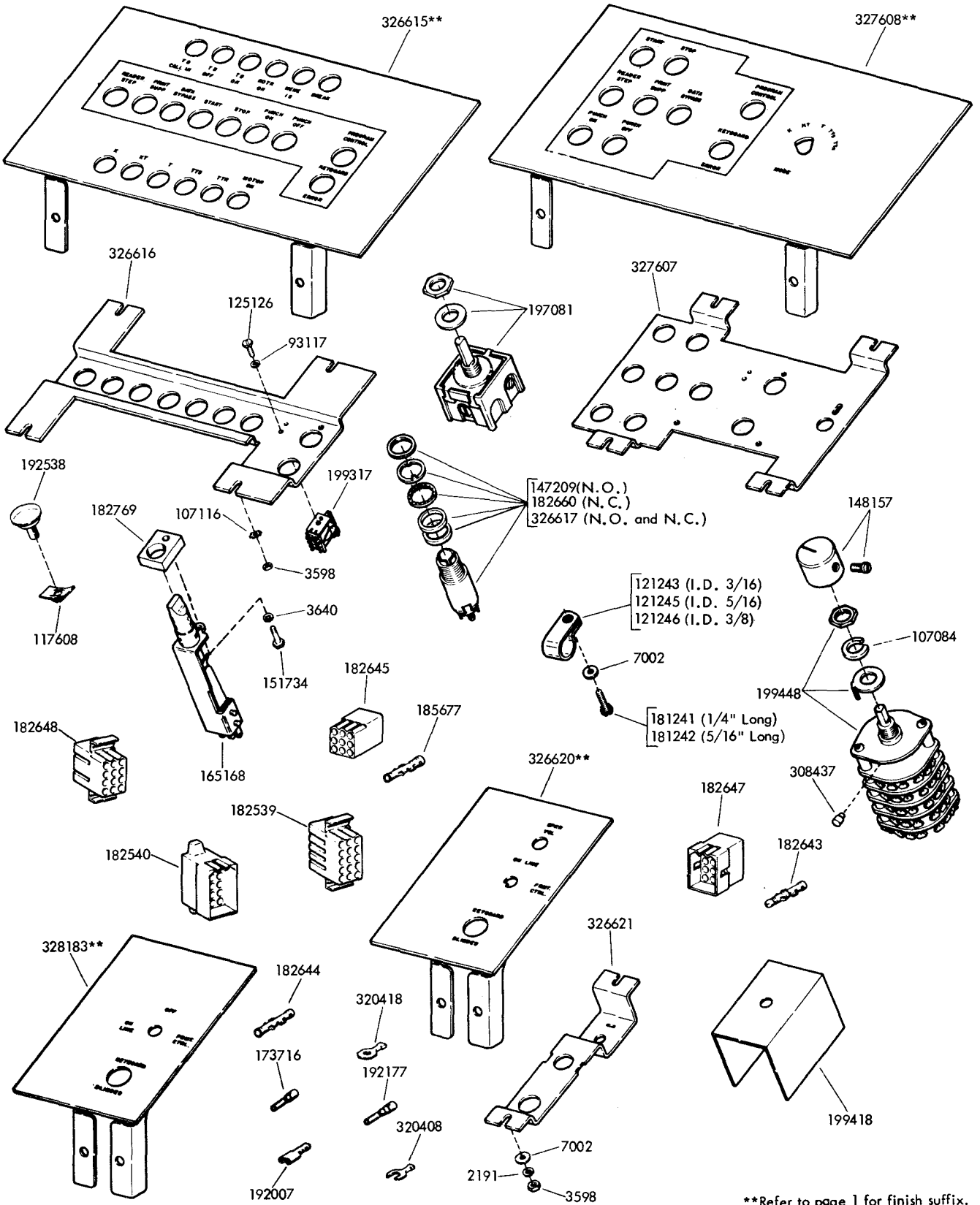
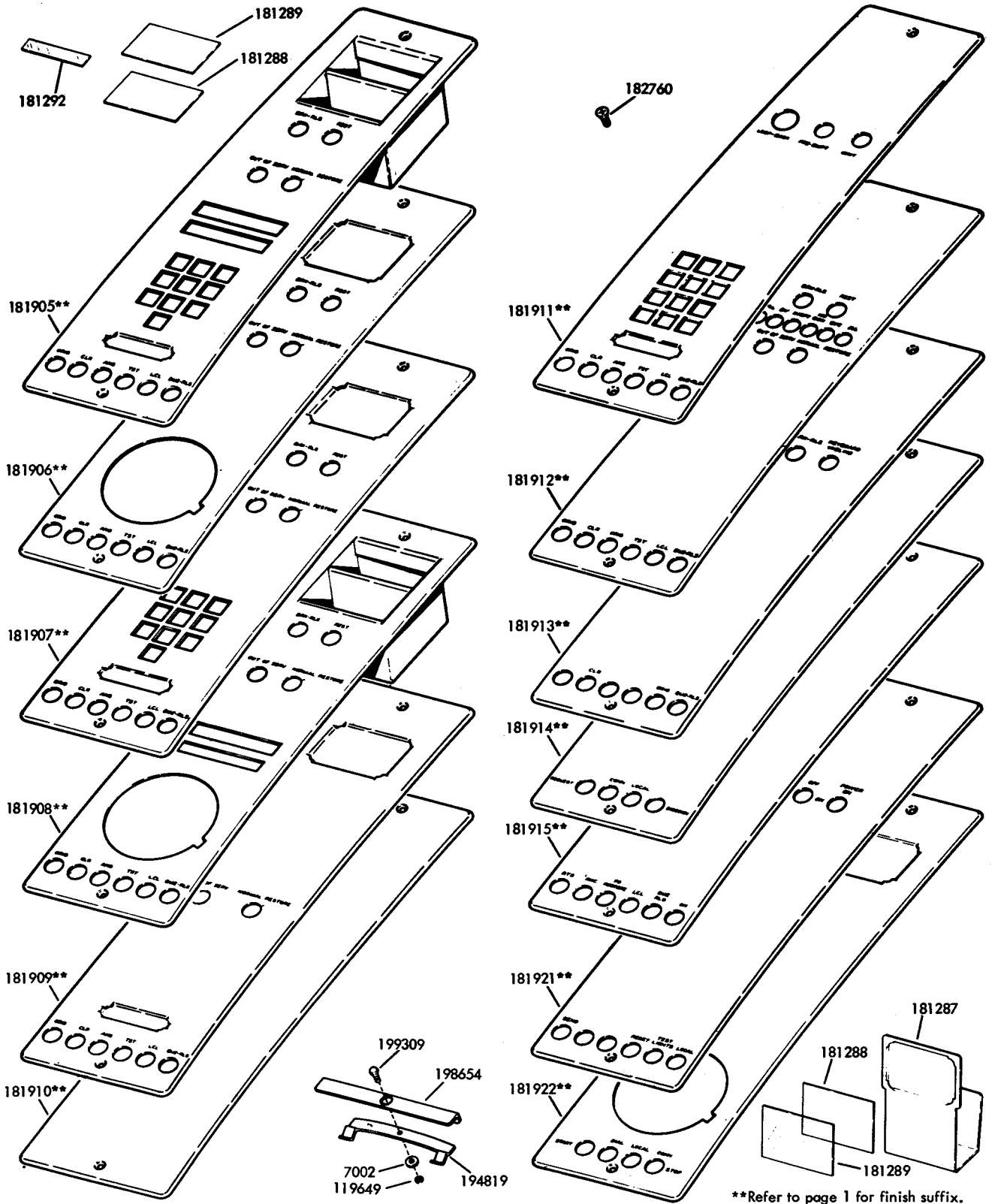


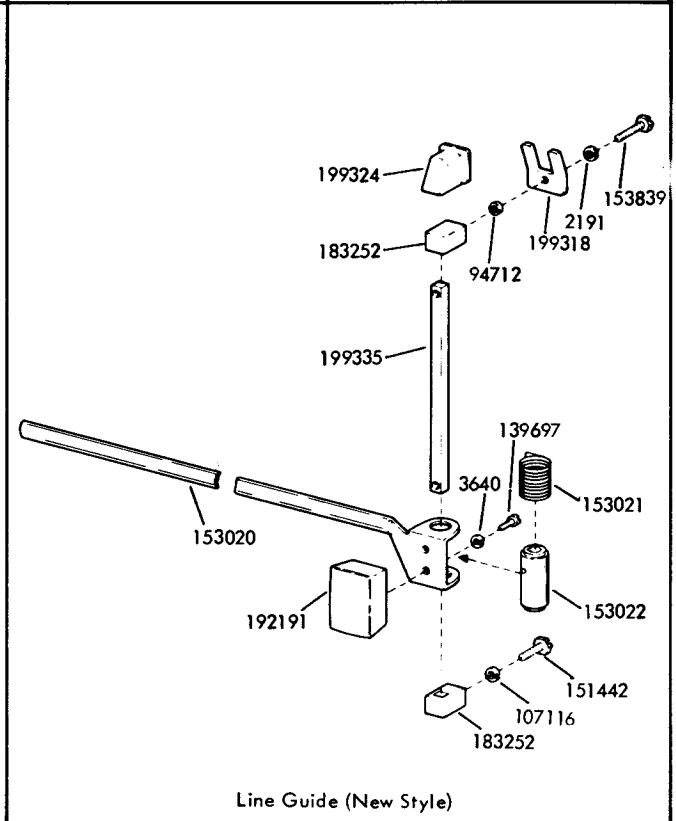
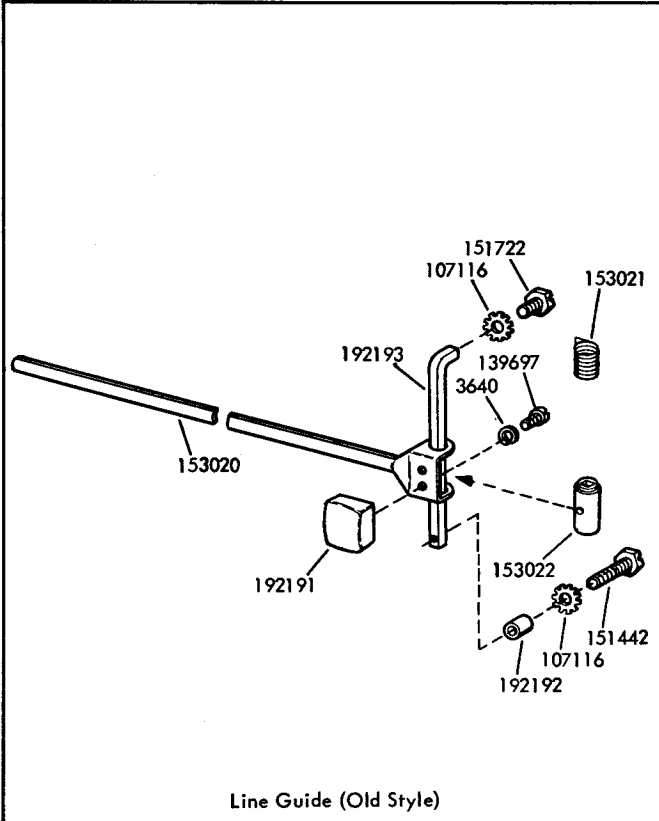
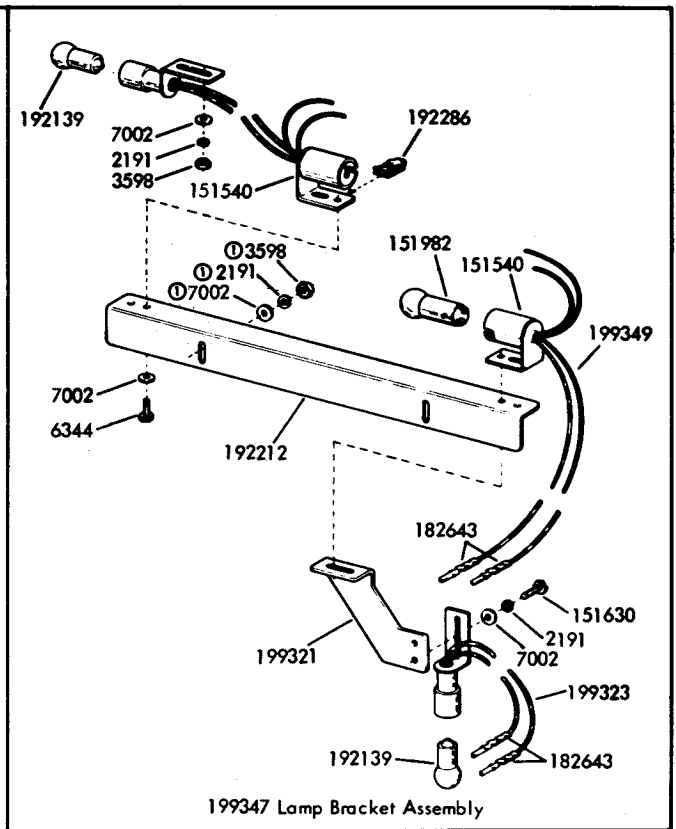
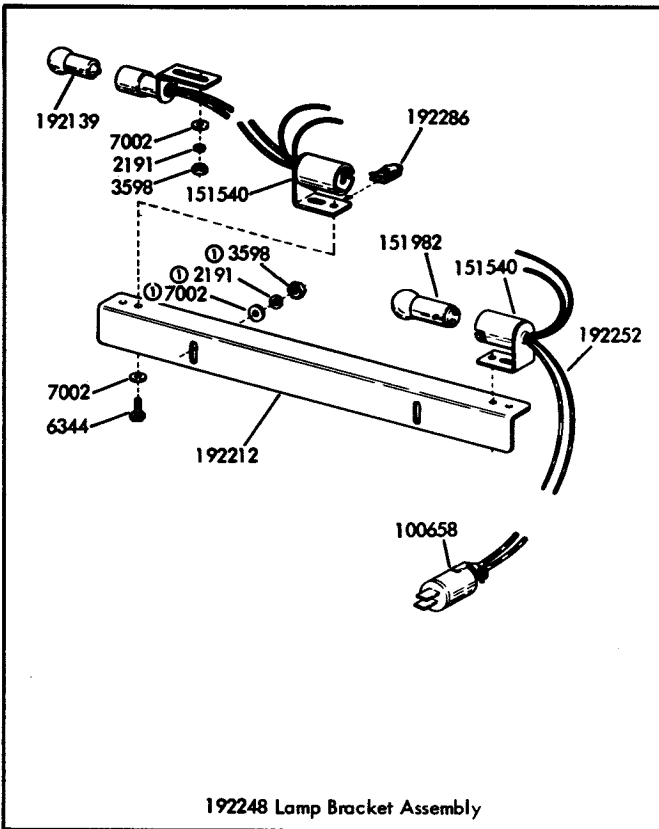
FIGURE 7. CONTROL PANELS AND COMPONENTS





\*\*Refer to page 1 for finish suffix.

FIGURE 9. FACEPLATES



Ⓞ Not part of 192248 or 199347

FIGURE 10. LAMP BRACKET AND LINE GUIDE ASSEMBLIES

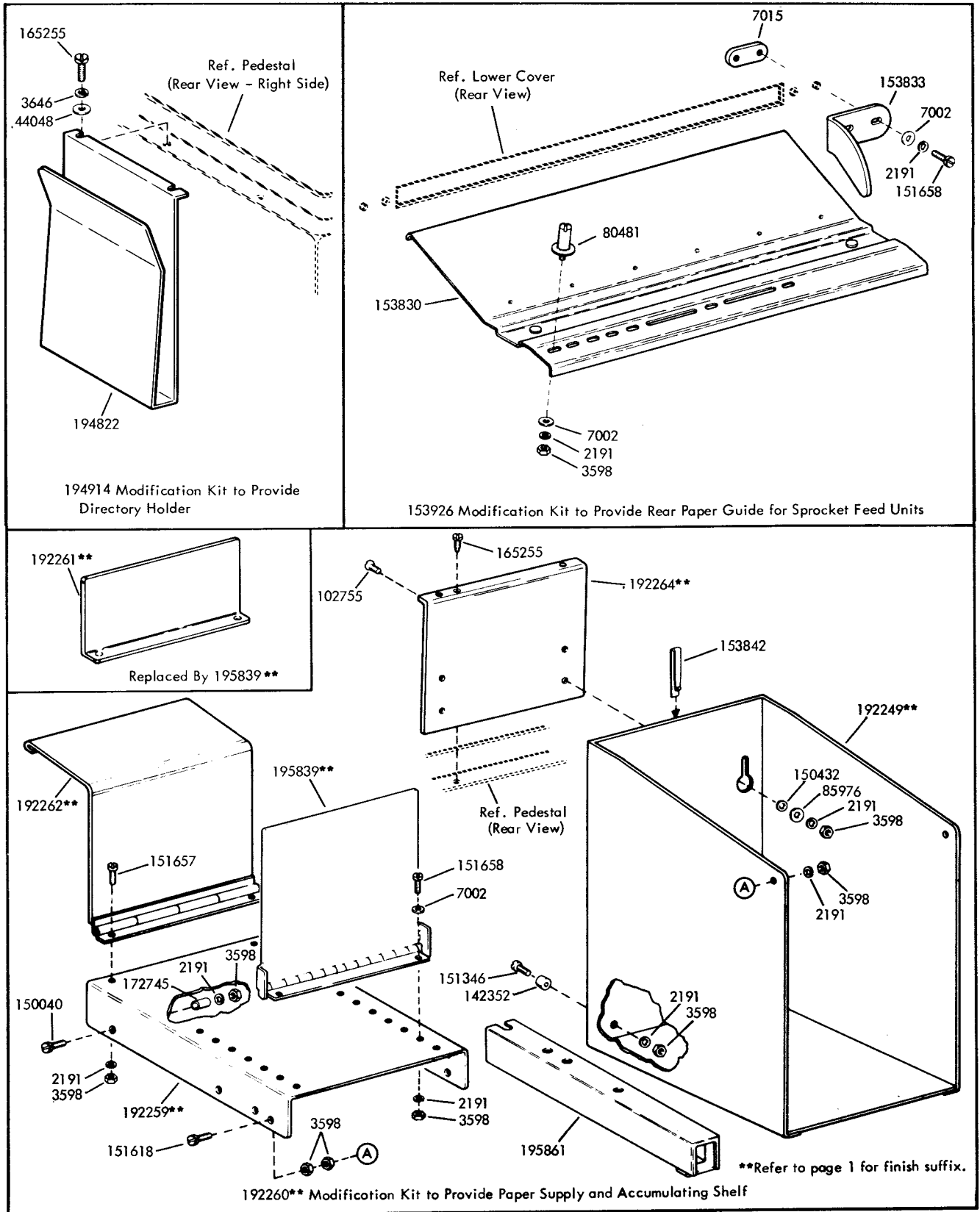


FIGURE 11. PAPER HANDLING AND DIRECTORY HOLDER MODIFICATION KITS

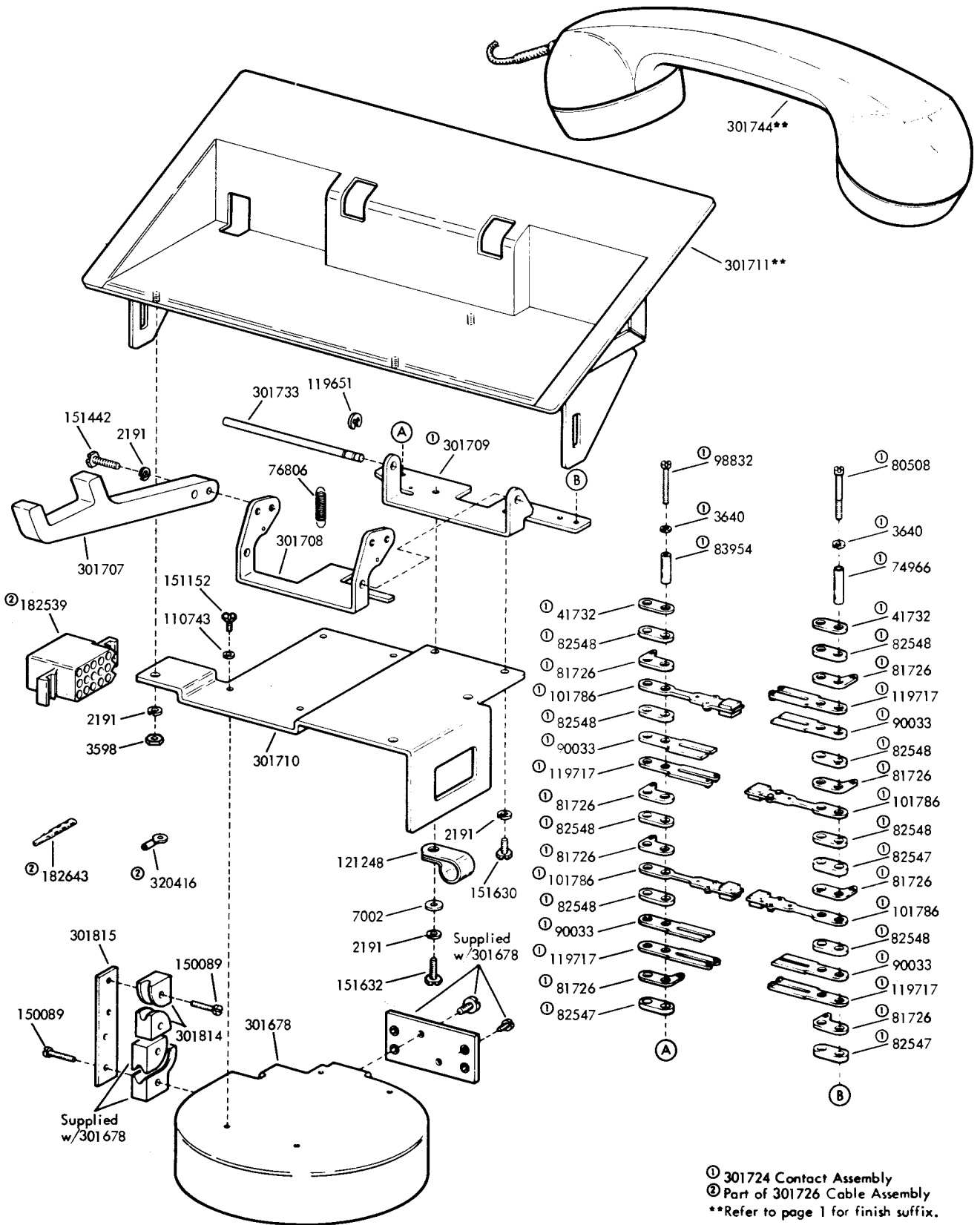


FIGURE 12. 301677\*\* TELEPHONE ASSEMBLY

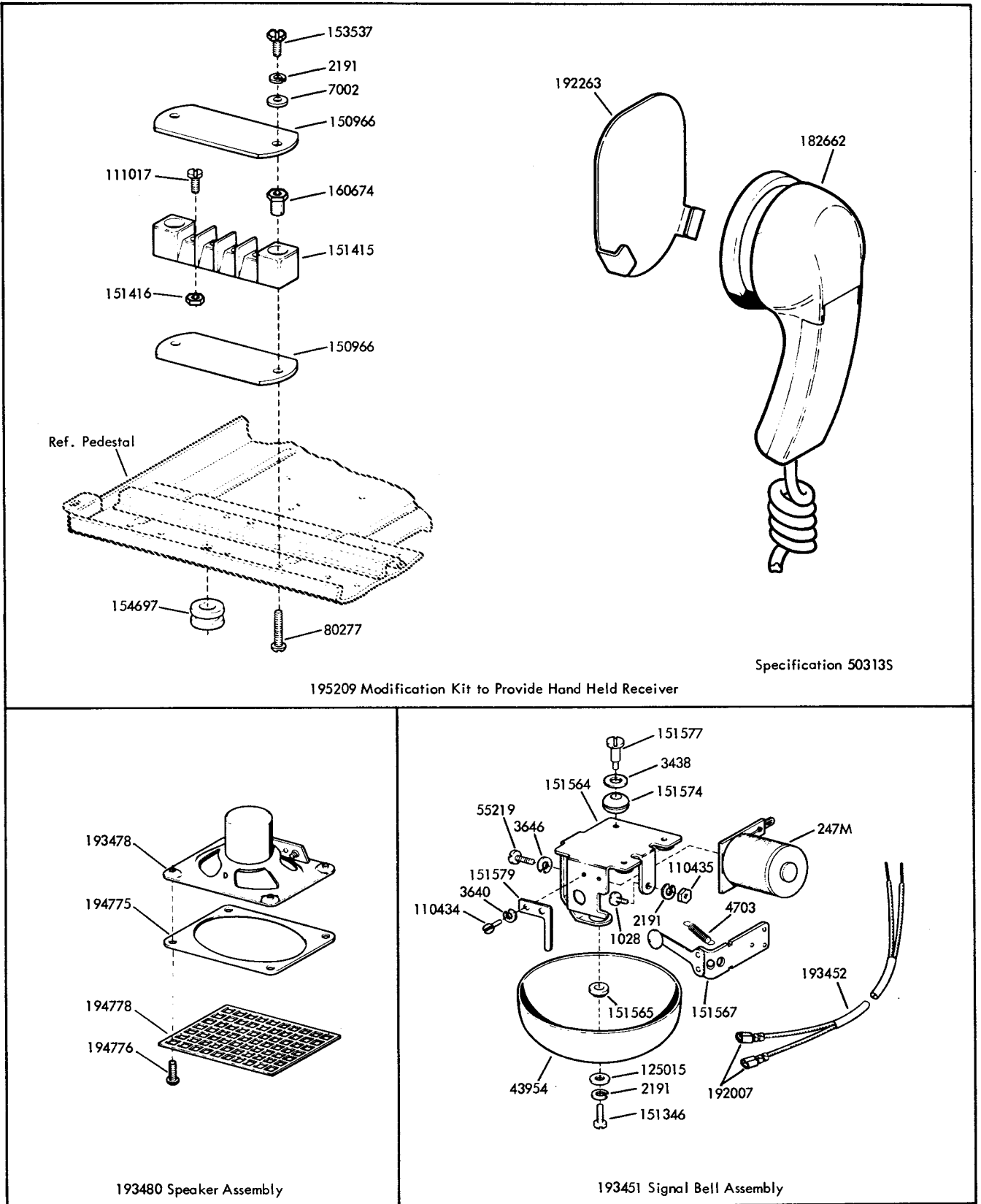
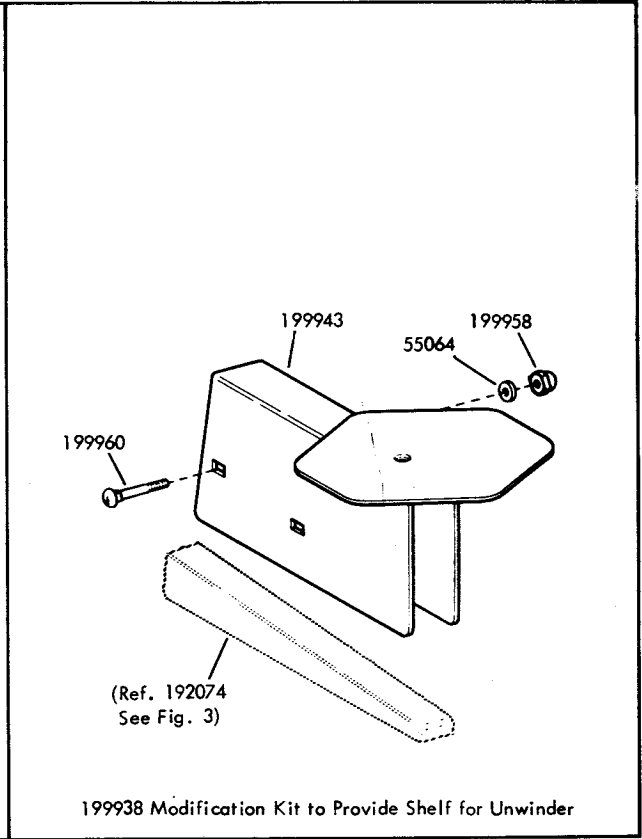
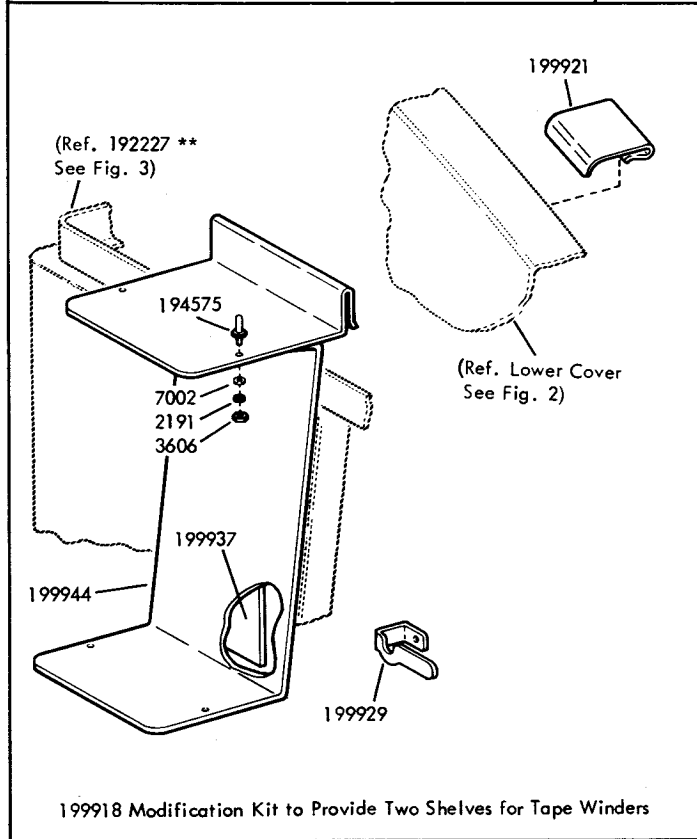
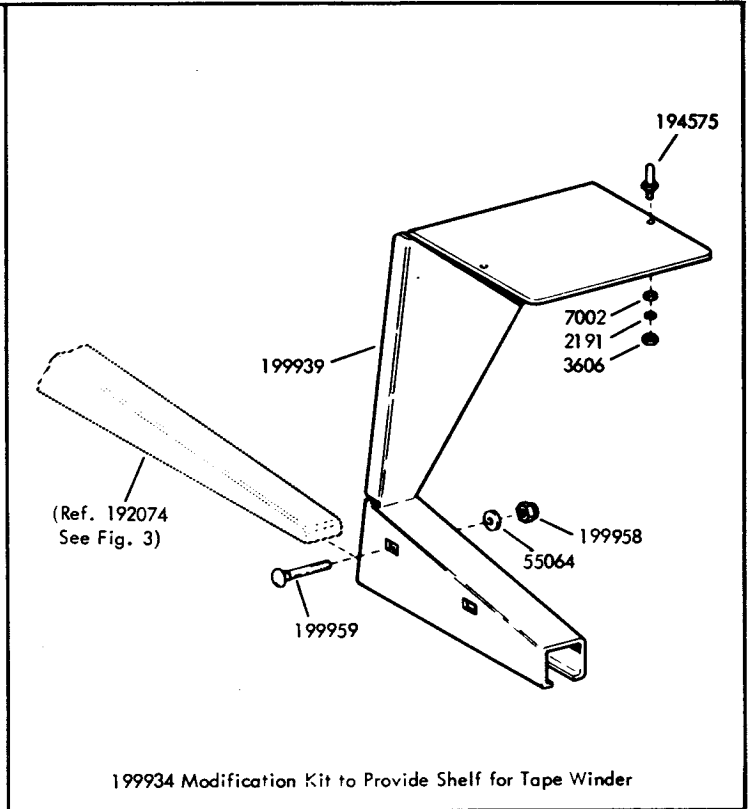
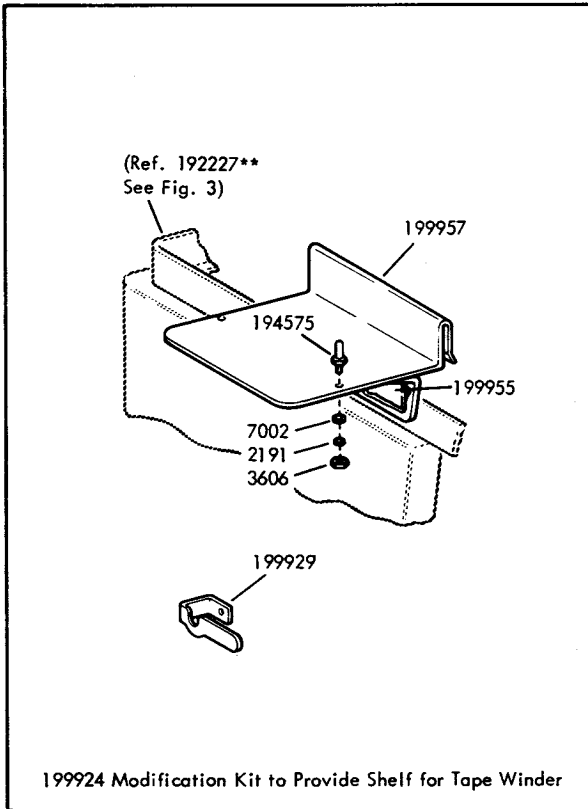


FIGURE 13. SPEAKER, SIGNAL BELL AND HAND HELD RECEIVER





\*\*Refer to page 1 for finish suffix

FIGURE 14. MODIFICATION KITS TO PROVIDE SHELVES FOR TAPE WINDERS AND UNWINDERS

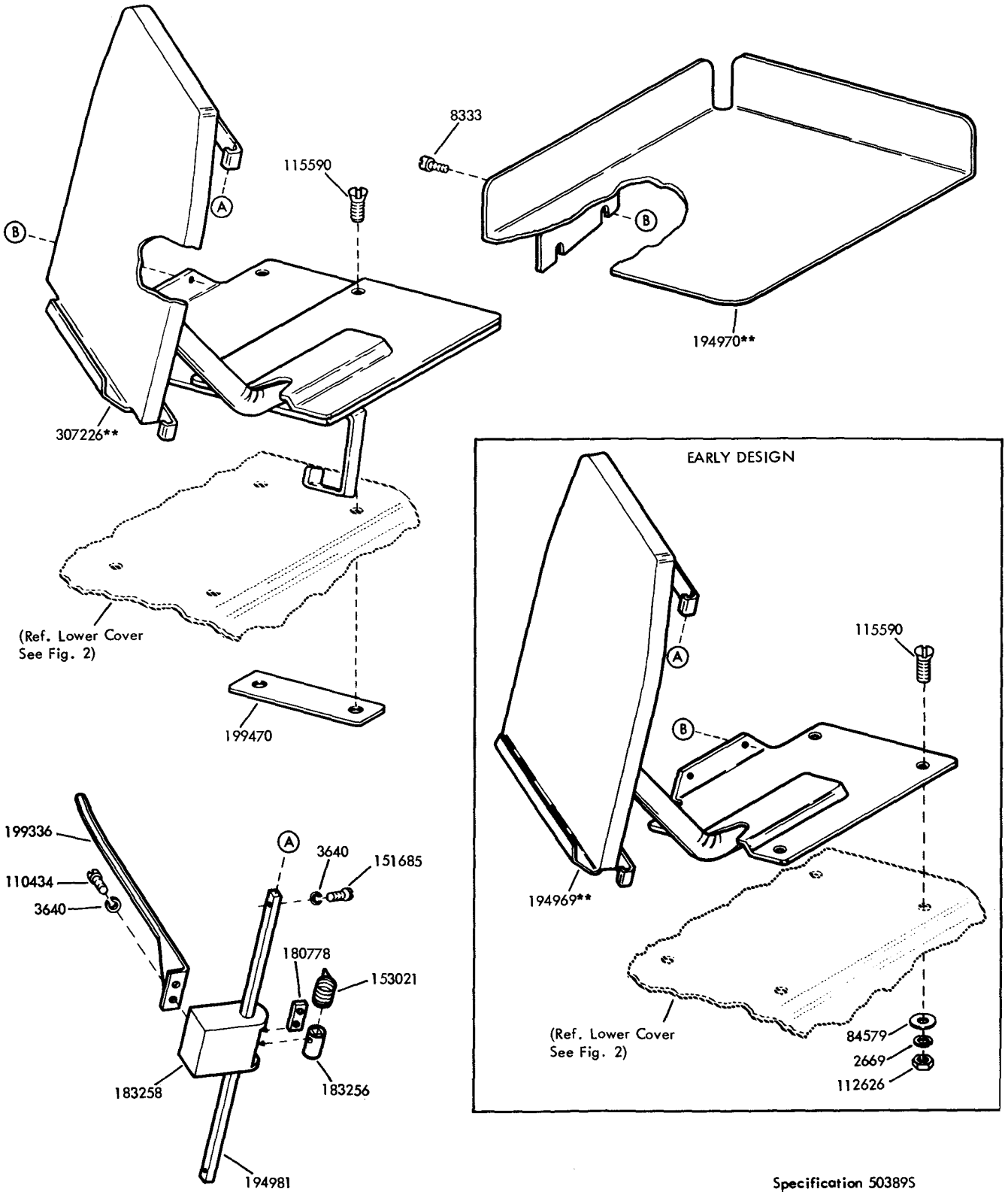
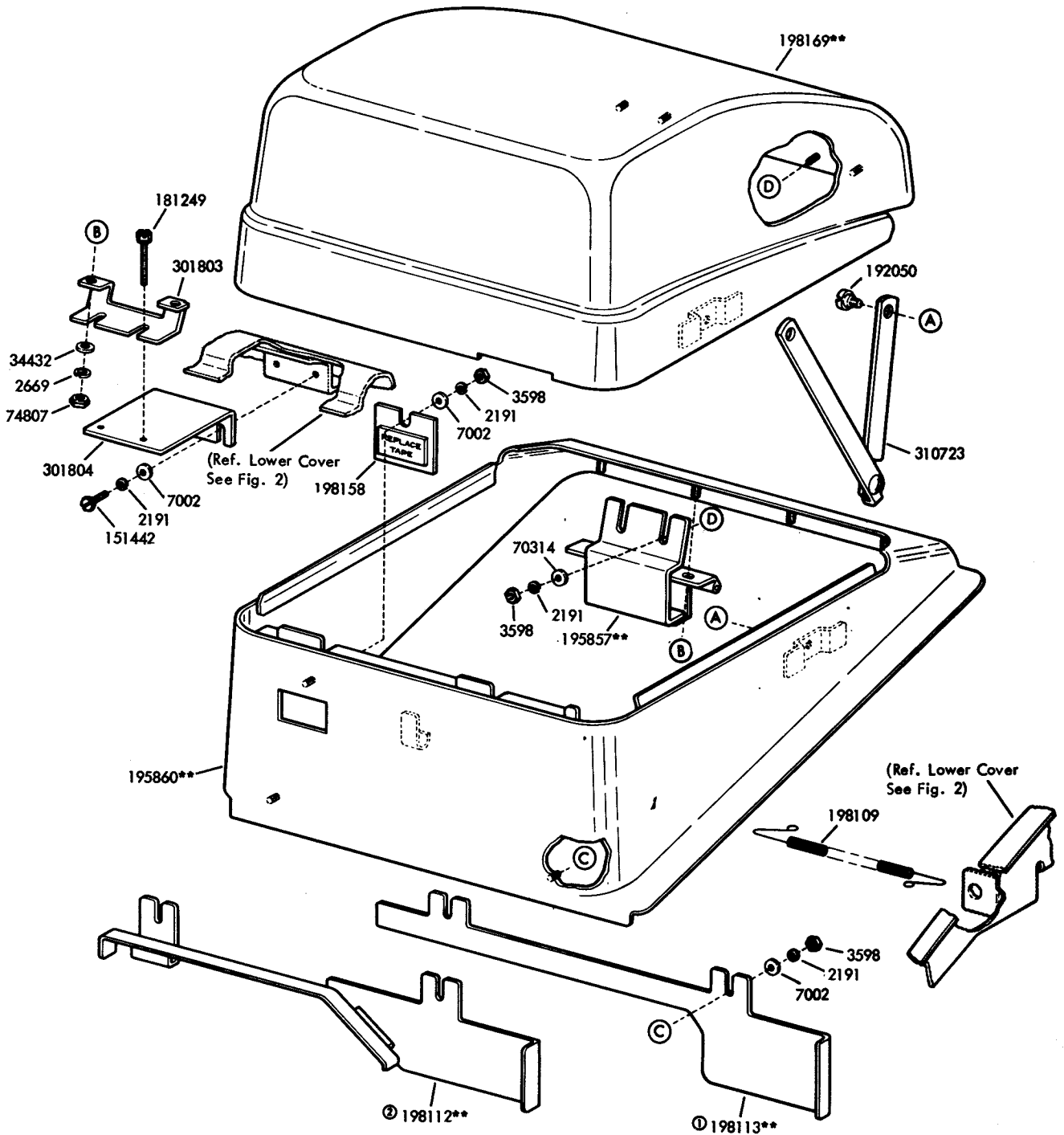


FIGURE 15. 307228\*\* MODIFICATION KIT TO ADD OFFSET COPYHOLDER



- ① Peculiar to 195833\*\*, for use with Two Shaft Transmitter Distributor.
- ② Peculiar to 198177\*\*, for use with Single Contact Transmitter Distributor.
- \*\*Refer to page 1 for finish suffix.

FIGURE 16. 195833\*\* AND 198177\*\* MODIFICATION KITS TO PROVIDE HOUSING FOR THE AUXILIARY REPERFORATOR

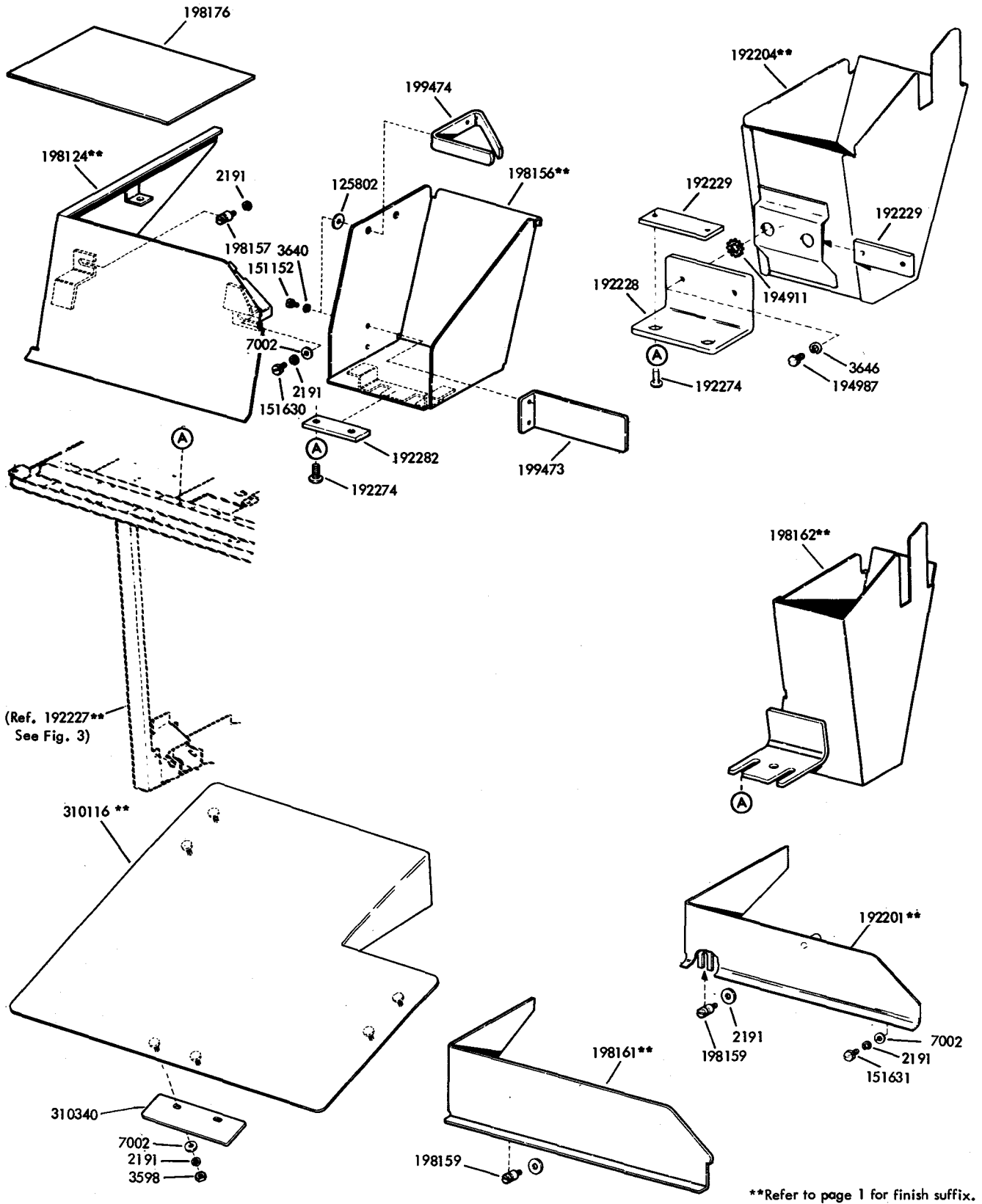


FIGURE 17. COVER PLATES AND TAPE CHUTES

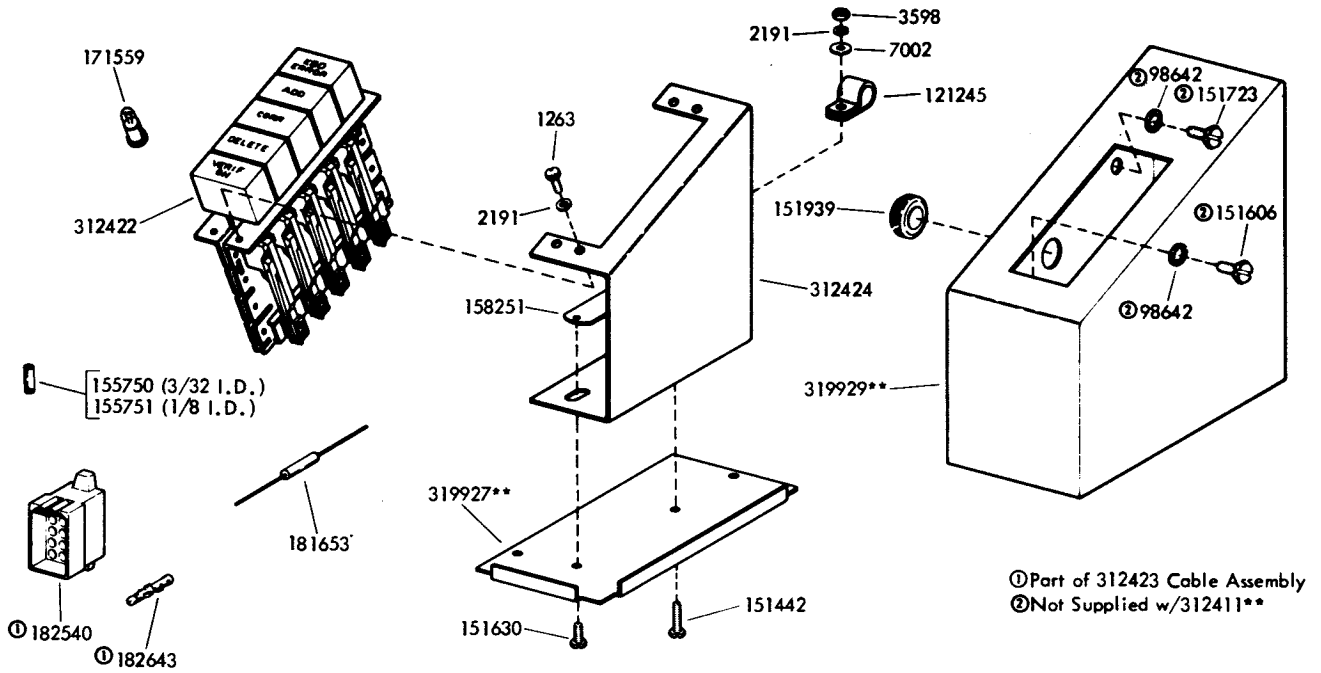


FIGURE 18. 312411\*\* KEYSWITCH ASSEMBLY

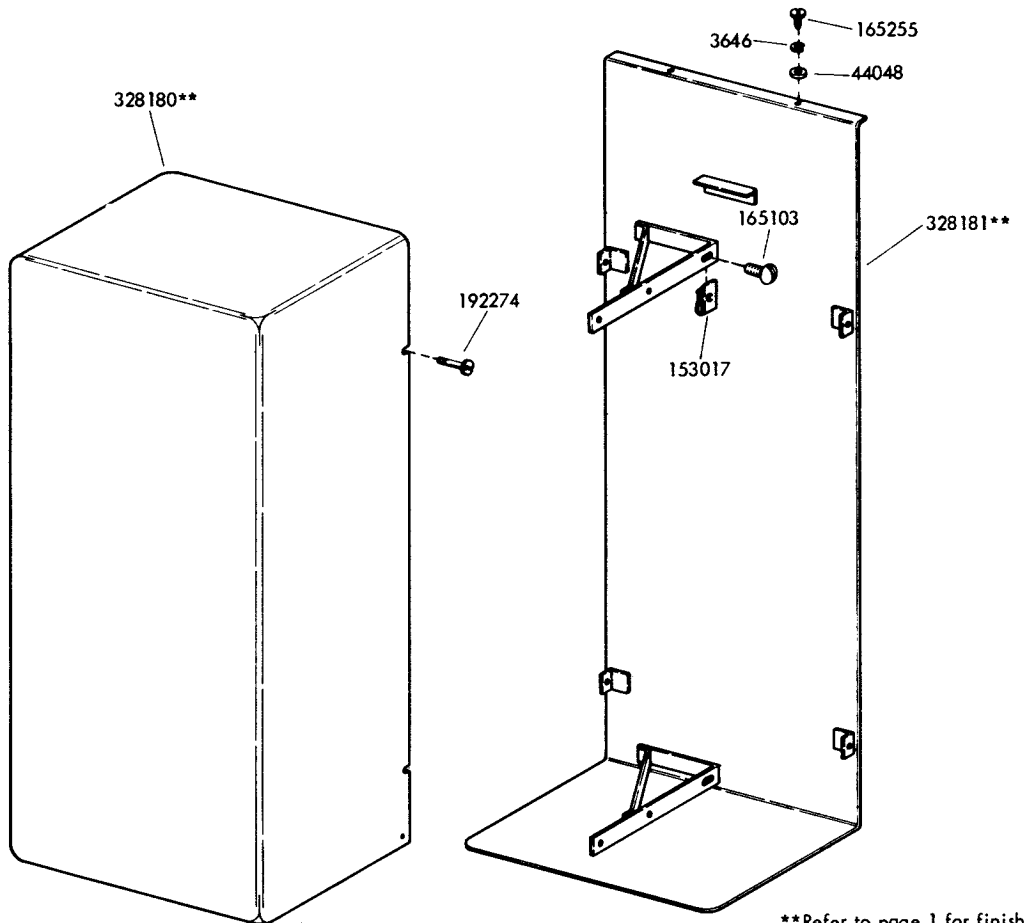


FIGURE 19. MODULE MOUNTING FACILITIES

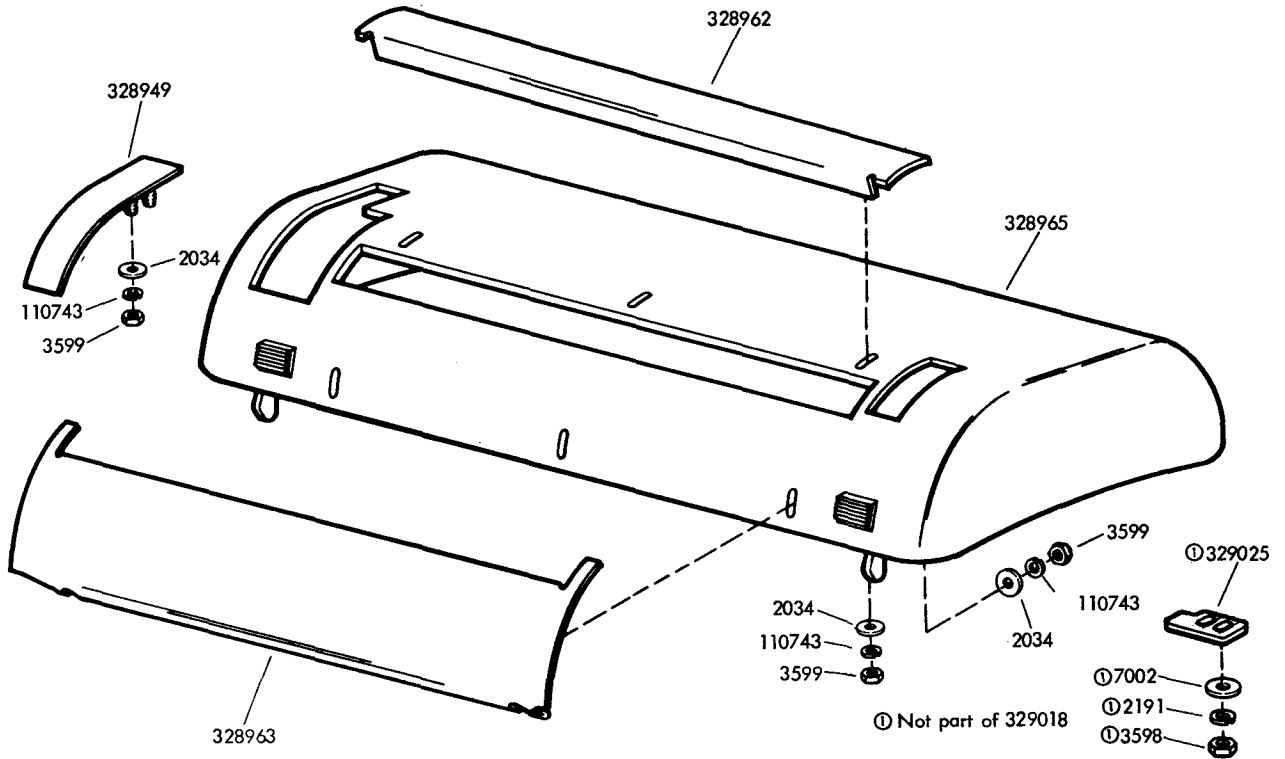
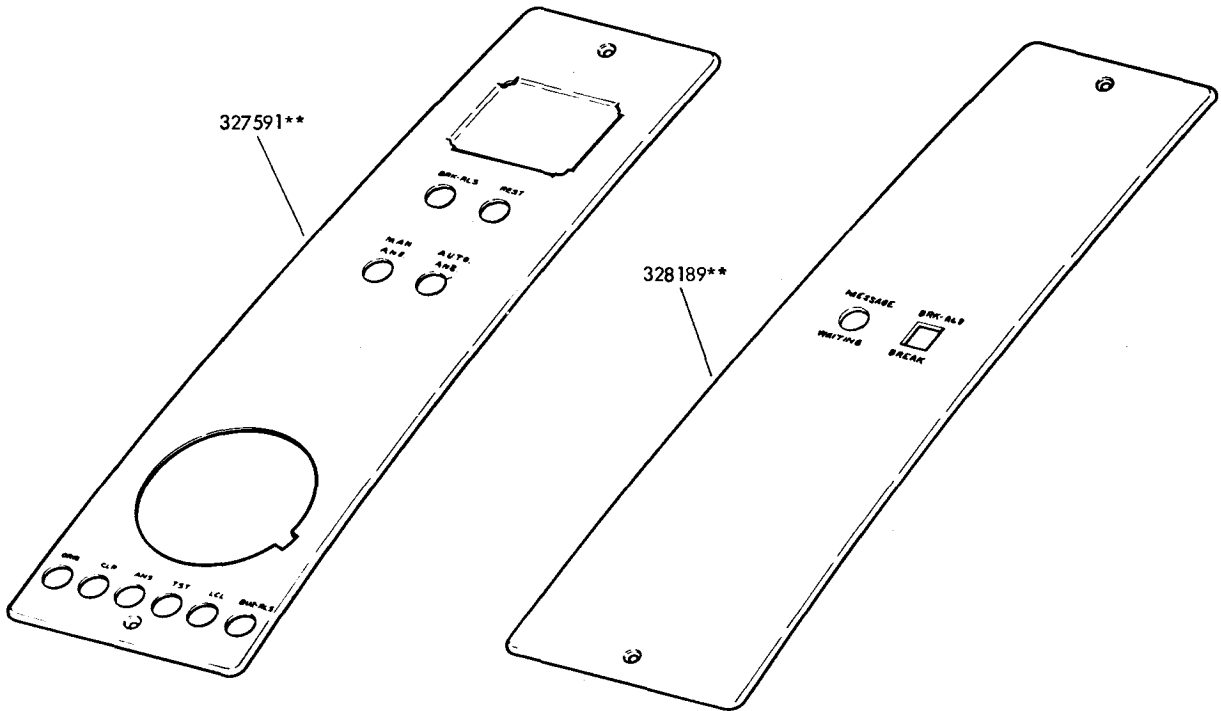


FIGURE 20. 329018 BUBBLE ASSEMBLY



\*\*Refer to page 1 for finish suffix.

FIGURE 21. FACEPLATES

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
247M	Coil, Magnet 14	103092	Connector, Cord 4	151658	Screw, 6-40 x 5/16 Fil 12
1028	Screw, 4-40 x 1/4 Fil 14	103160	Jumper, 2-5/8" Black 9	151685	Screw, 4-40 x 5/16 Fil 16
1122	Screw, 8-32 x 9/32 Flat 4	105029	Washer, Flat 4	151722	Screw, 6-40 x 3/16 Hex 2,11
1170	Screw, 6-32 x 5/16 Flat 9	107084	Washer, Lock 8,9	151723	Screw, 10-32 x 3/8 Hex 19
1263	Screw, 6-32 x 1/4 Fil 19	107116	Washer, Lock 8,9,11	151725	Screw, 10-32 x 3/4 Fil 3
2034	Washer, Flat 2,20	110434	Screw, 4-40 x 3/16 Fil 14,16	151734	Screw, 4-40 x 3/8 Hex 8
2191	Washer, Lock 2,3,4,8,9, 11 to 15,17 to 20	110435	Nut, 4-40 Hex 14	151939	Grommet, Rubber 19
2449	Washer, Lock 4	110743	Washer, Lock 2,13,20	151982	Lamp, 6V Incandescent 11
2658	Nut, 6-32 Hex 9	111017	Screw, 6-40 x 5/16 Fil 14	152797**	Plate, Retaining 3
2669	Washer, Lock 2,3,4,5,16,17	111713	Screw, 2-56 x 5/32 Flat 9	153017	Nut, Speed 4,19
2846	Washer, Flat 4	112626	Nut, 10-32 Hex 3,16	153020	Guide, Line 11
3438	Washer, Flat 4,14	113444R	Jumper, 5-1/2" Red 9	153021	Spring, Torsion 11,16
3598	Nut, 6-40 Hex 2,4,8,9,11,12, 13,17 to 20	115590	Screw, 10-32 x 1/2 Oval 16	153022	Bushing 11
3599	Nut, 4-40 Hex 2,20	115594	Nut, Speed 3	153442	Screw, 10-32 x 1/2 Hex 4,5
3606	Nut, 6-40 Hex 15	116793	Washer, Lock 4	153537	Screw, 6-40 x 9/32 Hex 2,14
3640	Washer, Lock 8,11,13,14,16,18	117535	Washer, Flat 4	153830	Guide, Rear 12
3646	Washer, Lock 3,4,5,12,14,18,19	117608	Nut, Speed 8	153833	Bracket, Guide 12
4703	Spring 14	118384	Lens, Clear Indicator Light 4	153839	Screw, 6-40 x 5/8 Hex 11
6344	Screw, 6-32 x 11/32 Hex 11	119421	Washer, Flat 5	153842	Clip, Paper Holder 12
6345	Nut, 6-32 Hex 3	119649	Ring, Retaining 10	153926	Modification Kit 12
6970	Nut, 3/8-32 Hex 5	119651	Ring, Retaining 13	154263	Bumper, Rubber 4
7002	Washer, Flat 2,3,4,8 to 15,17 to 20	119717	Spring, Contact 13	154409	Plate 4
7015	Plate, Nut 12	119904	Spring 4	154697	Grommet, Rubber 14
8333	Screw, 10-32 x 3/8 Rd 16	121243	Clamp, 3/16 ID Cable 3,8	155750	Sleeve, 3/32 ID x 1/2" LG Insulating 19
34432	Washer, Flat 17	121245	Clamp, 5/16 ID Cable 8,19	155751	Sleeve, 1/8 ID x 1" Lg Insulating 19
35826	Washer, Flat 5	121246	Clamp, 3/8 ID Cable 8	155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 9
36273	Washer, Flat 9	121248	Clamp, 1/2 ID Cable 13	155754	Sleeve, 1/16 ID x 1/2" Lg Insulating 9
41732	Plate, Clamp 13	122476	Screw, #6 Self-Tapping 4	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 9
43954	Bell 14	124611	Screw, 8-32 x 3/8 Hex 4	158251	Plate, Mounting 19
44048	Washer, Flat 12,19	124612	Screw, 8-32 x 1/2 Hex 3	160664	Pin, Roll 2
49054	Screw, 2-56 x 3/16 Flat 9	125015	Washer, Flat 14	160674	Nut, 6-40 Shoulder 14
55064	Washer, Flat 15	125126	Screw, 2-56 x 9/32 Fil 8	161912	Switch, SP-ST 9
55219	Screw, 8-32 x 3/8 Fil 14	125802	Washer, Flat 18	165102	Screw, 12-24 x 3/8 Rd 4
70314	Washer, Flat 17	128913	Screw, 8-32 Self-Tapping 4	165103	Screw, 12-24 x 5/8 Rd 19
70720	Screw, 10-32 Shoulder 2,4	139697	Screw, 4-40 x 9/32 Fil 11	165168	Key 8
74567	Screw, 1/4-20 x 33/64 Hex 4	142159	Bulb, 6V Lamp 9	165255	Screw, #8 Spl 12,19
74807	Nut, 10-32 Shoulder 2,4,5,17	142292	Jumper, 1-1/2" Yellow 9	171441	Resistor, 560 Ohm 9
74966	Bushing, Insulating 13	142352	Foot, Mounting 12	171559	Lamp, 28V Incandescent 9,19
76474	Nut, 10-32 Hex 4	144778	Screw, #6 Self-Tapping 4	172745	Bushing, .406 Lg 12
76806	Spring 13	147209	Switch, SP-ST Pushbutton 8,9	173716	Terminal, Receptacle Type 8
80277	Screw, 6-40 x 9/16 Rd 14	148157	Knob, Gray 8,9	178707	Bumper, Rubber 2
80481	Screw, 6-40 Spl 12	150040	Screw, 6-40 x 5/8 Fil 12	178839	Nut, 11/32-32 Hex 9
80508	Screw, 4-40 x 25/32 Fil 13	150089	Screw, 4-40 x 1/2 Fil 13	180778	Plate 16
81726	Terminal 13	150432	Washer, Flat 12	180798	Screw, 8-32 Self-Tapping 4
82547	Insulator, .094" Thk 13	150966	Insulator, Terminal Block 14	181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 8
82548	Insulator, .062" Thk 13	151152	Screw, 4-40 x 3/16 Hex 13,18	181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 8
82730	Screw, 10-32 Shoulder 7	151346	Screw, 6-40 x 3/8 Fil 12,14	181249	Screw w/Lockwasher, 6-40 x 1 Hex 17
83954	Bushing, Insulating 13	151415	Block, Terminal 14	181287	Holder, Card 10
84579	Washer, Flat 16	151416	Nut, 6-40 Hex 14	181288	Label, White 10
85976	Washer, Flat 12	151442	Screw, 6-40 x 1/2 Hex 11,13,17,19	181289	Window, Plastic 10
87636	Screw, 2-56 x 3/16 Rd 9	151534	Screw, 10-32 Shoulder 3,4	181292	Window, Plastic 10
88891	Spring 2	151540	Lamp, Holder 11	181638	Contact Assembly 9
90033	Stiffener 13	151549	Post 5	181653	Diode 19
90791	Washer, Lock 9	151564	Bracket 14	181894	Sleeve, 3/64 ID x 2" Lg Insulating 9
93117	Washer, Lock 8	151565	Bushing, Shoulder 14	181905**	thru
94712	Washer, Flat 11	151567	Armature w/Claper 14	181915**	Faceplate 10
96717	Screw, 4-40 Shoulder 9	151574	Grommet, Rubber 14	181921**	Faceplate 10
98642	Washer, Lock 19	151575	Arm, Stop 4		
98718	Washer, Flat 4	151577	Screw, 6-40 Shoulder 14		
98832	Screw, 4-40 x 11/16 Fil 13	151579	Plate, Retaining 14		
100658	Connector, 2 Pt Plug 11	151606	Screw, 10-32 x 1/4 Hex 19		
101633	Washer, Flat 2,4	151618	Screw, 6-40 x 7/16 Fil 12		
101786	Spring, Contact 13	151630	Screw, 6-40 x 1/4 Hex 11,13, 18,19		
102755	Screw, 6-40 x 7/16 Flat 12	151631	Screw, 6-40 x 5/16 Hex 3,4,18		
102994	Washer, Flat 7	151632	Screw, 6-40 x 3/8 Hex 3,13		
		151657	Screw, 6-40 x 1/4 Fil 2,12		

\*\*Refer to page 1 for finish suffix

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
181922**	Faceplate 10	192115	Pad, Upper Cover Front 2	193434	Button Assembly 9
182524	Button Assembly 9	192116**	Cover, Form Slot 3	193438	Strip, Lamp 9
182526	Screw, 4-40 Spl 9	192137**	Rack, Mounting 4	193451	Bell Assembly, Signal 14
182529	Lamp, 10V 9	192138**	Rack, Mounting 4	193452	Cable w/Terminals 14
182533	Screw, 6-32 x 5/16 Rd 9	192139	Lamp, 6V 11	193478	Speaker 14
182534	Screw, 6-40 Spl 9	192149	Plate, Latch 2	193480	Speaker Assembly 14
182535	Spring 9	192150	Bracket 4	194575	Post, Locating 15
182539	Connector, 15 Pt Receptacle Type 8, 13	192155	Bracket, Right Front 5	194775	Spacer, .050" Thk 14
182540	Connector, 15 Pt Plug Type 8, 19	192158**	Panel 4	194776	Screw, 6-32 Spl 14
182553	Plate, Base 9	192163	Frame 5	194777	Bracket, Switch 9
182554	Spring, Compression 9	192165	Spring, Detent 3	194778	Grille, Speaker 14
182556	Lockout 9	192166	Bushing 5	194819	Clip, Spring 10
182558	Frame 9	192177	Terminal, Receptacle Type 8	194822	Holder, Directory 12
182559	Plunger 9	192178**	Plate 6	194823	Plate, Nut 3
182561	Contact Assembly 9	192179	Bracket, Mounting 5	194902	Bracket, Stop 4
182562	Contact Assembly 9	192182	Bracket, Mounting 5	194904	Hinge w/Pin 3
182643	Terminal, Plug Type 8, 11, 13, 19	192191	Knob 11	194905	Bracket, Hinge 4
182644	Terminal, Receptacle Type 8	192192	Bushing 11	194911	Washer, Lock 5, 18
182645	Connector, 9 Pt Receptacle Type 8	192193	Shaft 11	194912	Screw, 10-32 Shoulder 4
182647	Connector, 12 Pt Plug Type 8	192201**	Plate, Cover 18	194913	Nut, 10-32 Acorn 4
182648	Connector, 12 Pt Receptacle Type 8	192202**	Plate w/Brackets 6	194914	Modification Kit 12
182653	Knob 9	192203	Window, Plastic 2	194919	Bracket, Latch 4
182658	Socket, Lamp 9	192204**	Chute, Tape 18	194920	Latch, Lower Cover 4
182660	Switch, Pushbutton 8, 9	192212	Bracket, Lamp 11	194921	Pin, Stop 4
182662	Receiver 14	192227**	Pedestal w/Pan 4, 5, 15, 18	194965	Latch, Left Dome 2
182663	Plunger 9	192228	Bracket 18	194966	Latch, Right Dome 2
182664	Contact Assembly 9	192229	Plate, Nut 18	194969**	Copyholder 16
182666	Bar, Latch 9	192230	Plate, Clamp 2	194970**	Tray 16
182667	Plunger 9	192245**	Container, Chad 4	194981	Shaft, Line Guide 16
182683	Resistor, 50 Ohm 9	192248	Bracket Assembly, Lamp 11	194983	Retainer 3
182684	Strap 9	192249**	Shelf, Paper Box 12	194984	Screw, #6 x 1-1/2 Spl 4
182713	Cap, Amber Lens 9	192252	Cable Assembly 11	194985	Clamp 2
182714	Cap, White Lens 9	192253	Nut, #6 Speed 3	194987	Screw, 8-32 x 3/8 Hex 5, 18
182715	Cap, Red Lens 9	192254	Screw, 6 x 3/4 Self-Tapping 3	194988	Screw, 10-32 Spl 3
182760	Screw, 6-32 Spl 10	192255	Hinge, Left 3	195209	Modification Kit 14
182769	Block 8	192259**	Shelf, Paper 12	195629	Plate 2
183252	Post 11	192260**	Modification Kit 12	195833**	Modification Kit 1, 17
183256	Bushing 16	192261**	Bracket, Bockstop 12	195839**	Bracket, Backstop 12
183258	Handle, Copyholder 16	192262**	Plate, Deflector 12	195844	Lamp, 6V 9
185677	Terminal, Receptacle Type 8	192263	Holder, Handset 14	195857**	Cover 17
192006**	Cover, Lower 3	192264**	Plate, Mounting 12	195860**	Housing 17
192007	Terminal, Tab Type 8, 14	192266	Plate 2	195861	Extension, Foot 12
192012**	Cover, Upper 2	192267	Button 2	195871	Label 2
192014	Connector, 50 Pt Receptacle Type 9	192270	Bracket 4	195877	Nut, 9/16-27 Hex 4
192050	Screw, 10-32 Shoulder 17	192271	Plate, Nut 4	197028	Terminal 4
192054	Nut, 8-32 Shoulder 4	192273	Nut, Speed 4	197081	Switch, 3 Positions 8
192056	Handle 4	192274	Screw, 8-32 Spl 3, 4, 5, 18, 19	197082	Bracket, Switch 9
192067	Bubble 2	192276	Hinge, Right 3	198019	Lamp, 6V 9
192068	Bracket, Right Pivot 2	192278	Arm Right Counter Balance 3	198109	Spring 17
192069	Bracket, Left Pivot 2	192279	Arm, Left Counter Balance 3	198112**	Plate 17
192070	Guide, Form 2	192280	Bracket, Mounting 5	198113**	Plate 17
192073	Window, Glass 2	192281	Bracket 5	198124**	Plate, Cover 18
192074	Foot w/Nut 4, 15	192282	Plate, Nut 4, 5, 18	198156**	Compartment, Tape 18
192081	Ring 5	192286	Nut, Speed 3, 11	198157	Post 18
192082	Bushing 5	192287	Fastener, Pushbutton 4	198158	Indicator, Replace Tape 17
192083	Washer, Flat 5	192288	Nut, #14 Speed 4	198159	Post 18
192084	Bracket, Right Rear 5	192289	Screw, 1/4-14 Self-Tapping 4	198161**	Plate, Cover 18
192085	Bracket, Left Rear 5	192290	Pad, Base 4	198162**	Funnel, Tape 18
192086	Bracket, w/Stud 5	192293	Pad, Lower Cover Side 3	198163**	Fence, Bracket 3
192088**	Tray, Paper 3	192294	Pad, Tray 3	198164**	Plate 6
192089**	Fence, Paper 3	192295	Pad, Upper Cover Side 2	198169**	Dome 17
192090	Bracket 3	192296	Pad, Upper Cover Side 2	198176	Plate w/Studs 18
192103	Window, Plastic 2	192538	Plug, Button 8	198177**	Modification Kit 1, 17
192106	Plate, Nut 5	193179	Lamp, 28V 9	198246**	Plate w/Studs 6
		193426	Bracket, Right 9	198251**	Panel 7
		193427	Bracket, Left 9	198253	Switch, Rotary 9
		193430**	Panel 7	198286**	Panel 7

\*\*Refer to page 1 for finish suffix



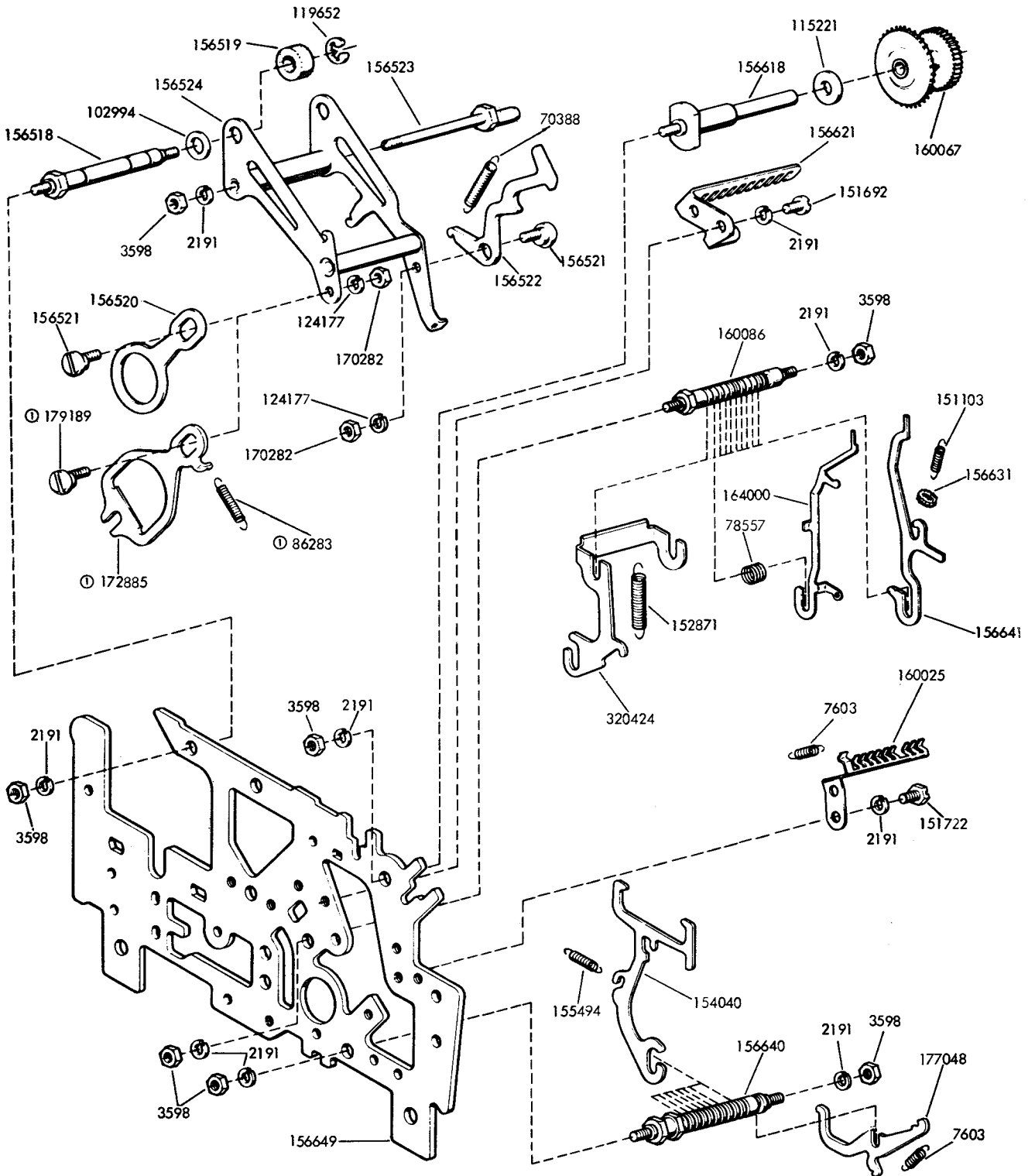
## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
198299	Label 2	199944	Shelf 15	306684	Guide, 8-1/2" Form 2
198413	Switch, Lever 9	199955	Magnet 15	306685	Guide, 9" Form 2
198437**	Panel 7	199957	Shelf 15	306731	Gasket 2
198451	Bracket, Switch 9	199958	Nut, Cap 15	306683	Guide, 8" Form 2
198513**	Panel 7	199959	Bolt, 1/4-20 x 1-1/2 Rd 15	307226**	Copyholder 16
198527	Bracket 9	199960	Bolt, 1/4-20 x 1-3/4 Rd 15	307228**	Modification Kit 1,16
198648**	Plate, Hanger 4	301670**	Plate 6	308437	Pin, Shoulder 8,9
198654	Bracket, Locating 10	301671**	Panel 7	310116**	Cover 18
199250	Plate, Name 3	301677**	Telephone Assembly 1,13	310340	Clamp 18
199253	Plate, Name 3	301678	Reel Assembly, Cord 13	310723	Arm, Stop 17
199256	Plate, Name 3	301707	Hook, Switch 13	312411**	Switch Assembly, Keyset 1,19
199259	Plate, Name 3	301708	Bail 13	312422	Switch 19
199272	Plate, Name 3	301709	Bracket, Mounting 13	312423	Cable Assembly 19
199275	Plate, Name 3	301710	Plate, Mounting 13	312424	Bracket, Switch 19
199306	Guide 2	301711**	Container 13	319927**	Plate, Bottom 19
199309	Stud 10	301724	Contact Assembly 13	319929**	Container, Switch 19
199317	Relay 8	301726	Cable Assembly 13	320408	Terminal, Spade Type 8
199318	Clamp 11	301733	Shaft 13	320410	Terminal, Spade Type 9
199321	Bracket 11	301736	Bracket, Switch 9	320416	Terminal, Ring Type 13
199323	Cable Assembly 11	301738**	Panel 7	320418	Terminal, Ring Type 8,9
199324	Cover, Lamp 11	301740**	Plate 6	321094**	Shield, Anti-Glare 2
199335	Shaft 11	301744**	Handset Assembly 13	321564**	Panel 7
199336	Guide, Line 16	301769	Bar, Latch 9	321568	Bracket, Switch 9
199337	Retainer 4	301770	Bracket, Latch 4	326615**	Panel 8
199342**	Cover, Lever 3	301800	Bracket, Left Latch 4	326616	Bracket 8
199343**	Tray, Paper 3	301801	Latch, Cover 4	326617	Switch, NO-NC Pushbutton 8
199347	Bracket Assembly, Lamp 11	301803	Plate 17	326620	Panel w/Studs 8
199349	Cable Assembly 11	301804	Plate 17	326621	Bracket 8
199353**	Plate, Right 6	301814	Guide, Inner Cord 13	327591**	Faceplate 20
199358**	Plate w/Studs 6	301815	Strip, Mounting 13	327607	Bracket, Switch 8
199359**	Plate w/Studs 6	304266	Switch, Rocker 9	327608**	Panel w/Studs 8
199362	Past, Pivot 4	305058	Guide, 10" Form 2	328180**	Cover 19
199418	Insulator 8	305725	Spring, Stop 4	328181**	Bracket 19
199448	Switch, Rotary 8	306670	Guide, 3-5/8" Form 2	328183**	Panel w/Studs 6,8
199470	Plate, Nut 16	306671	Guide, 4" Form 2	328189**	Faceplate 20
199473	Baffle, Tape 18	306672	Guide, 4-1/4 or 4-5/16" Form 2	328303**	Panel 7
199474	Guide, Tape 18	306673	Guide, 4-1/2" Form 2	328304	Bracket, Switch 9
199918	Modification Kit 15	306674	Guide, 5" Form 2	328743	Switch, Lever 9
199921	Strip, Wear 15	306675	Guide, 5-1/2" Form 2	328777	Switch, Rotary 9
199924	Modification Kit 15	306676	Guide, 3-3/4" Form 2	328797	Insulator 9
199929	Guide, Tape 15	306677	Guide, 6" Form 2	328949	Guard 20
199934	Modification Kit 15	306678	Guide, 6-1/4" Form 2	328962	Guide, Form 20
199937	Magnet 15	306679	Guide, 6-3/8" Form 2	328963	Guide, Form 20
199938	Modification Kit 15	306680	Guide, 6-1/2" Form 2	328965	Bubble 20
199939	Shelf, Tape Winder 15	306681	Guide, 7" Form 2	329018	Bubble Assembly 1,20
199943	Shelf, Tape Winder 15	306682	Guide, 7-1/2" Form 2	329025	Plate, Latch 20

\*\*Refer to page 1 for finish suffix

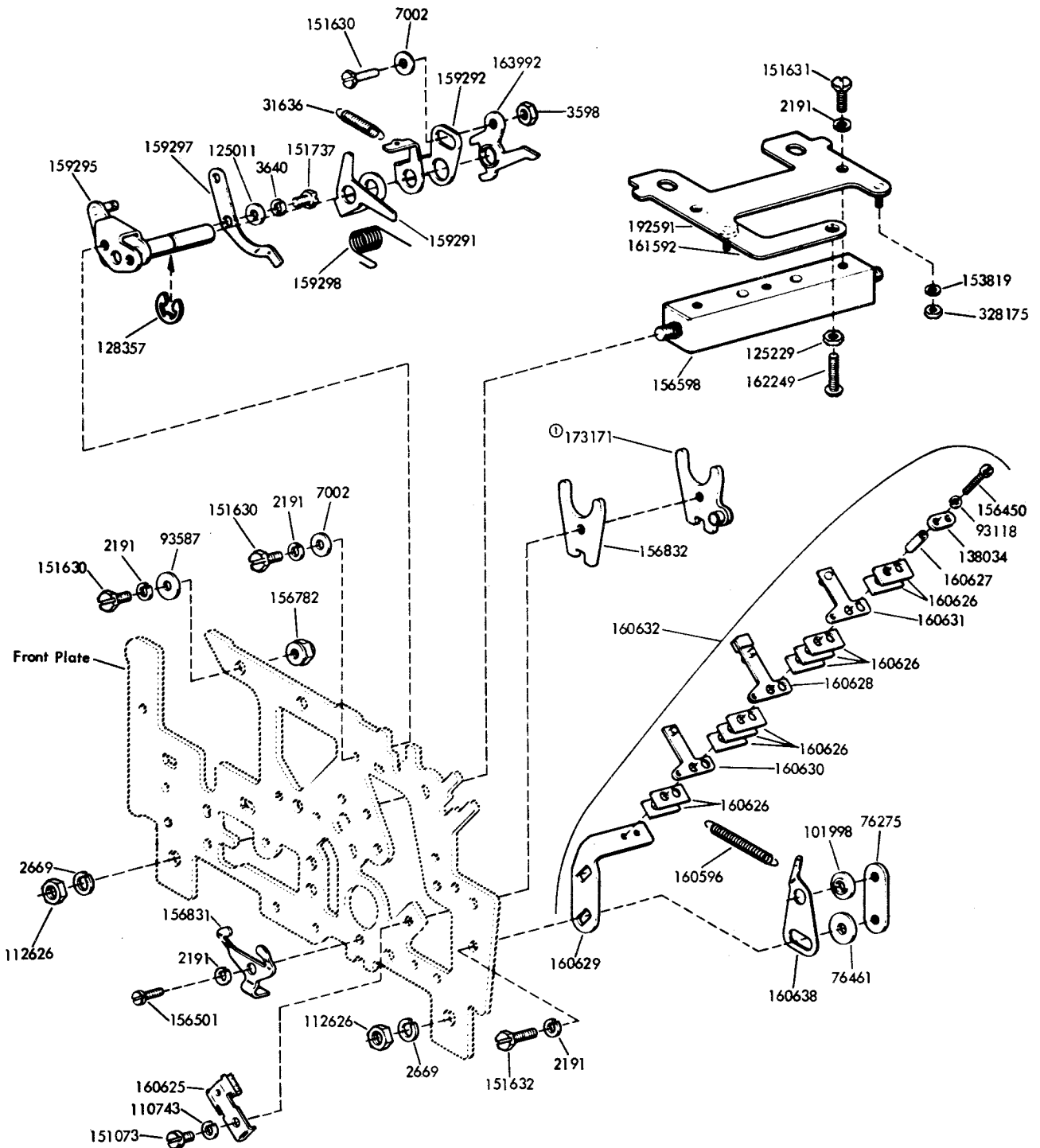
35 TRANSMITTER (LX)  
PARTS

FIGURE	CONTENTS	PAGE
1	Front Plate Mechanism	2
2	Front Plate Mechanism (Continued)	3
3	Front Plate Mechanism (Continued)	4
4	Center Plate Mechanism	5
5	Rear Plate Mechanism	6
6	Clutch Trip Magnet Mechanism	7
7	Main Shaft Mechanism - 1 Cycle	8
8	Main Shaft Mechanism - 2 Cycle	8
9	Tape Guide Plate Mechanism	9
10	Cover and Top Plates	10
11	Cable Components	10
	Numerical Index	11



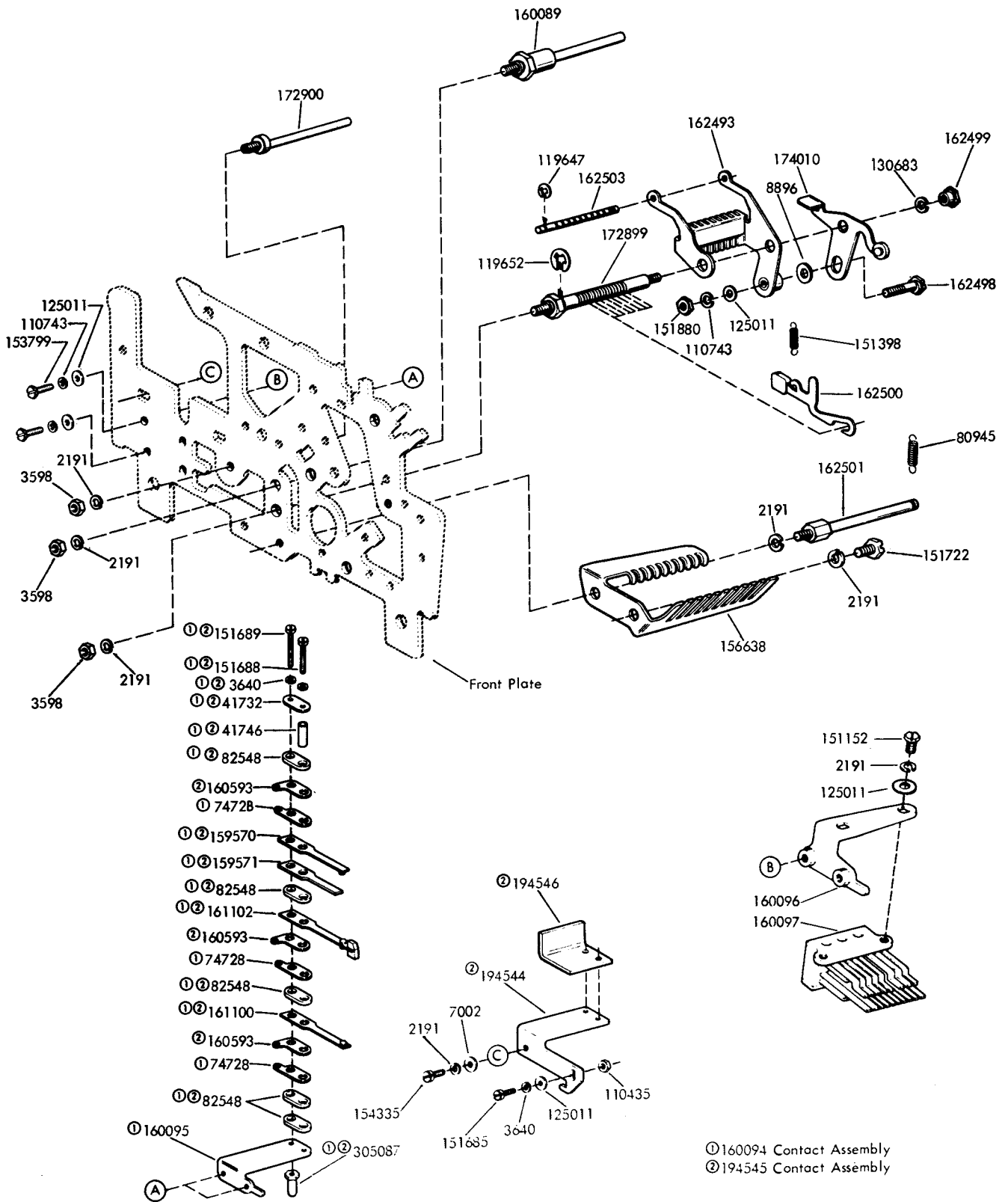
Ⓞ Peculiar to units equipped with a two cycle clutch

FIGURE 1. FRONT PLATE MECHANISM



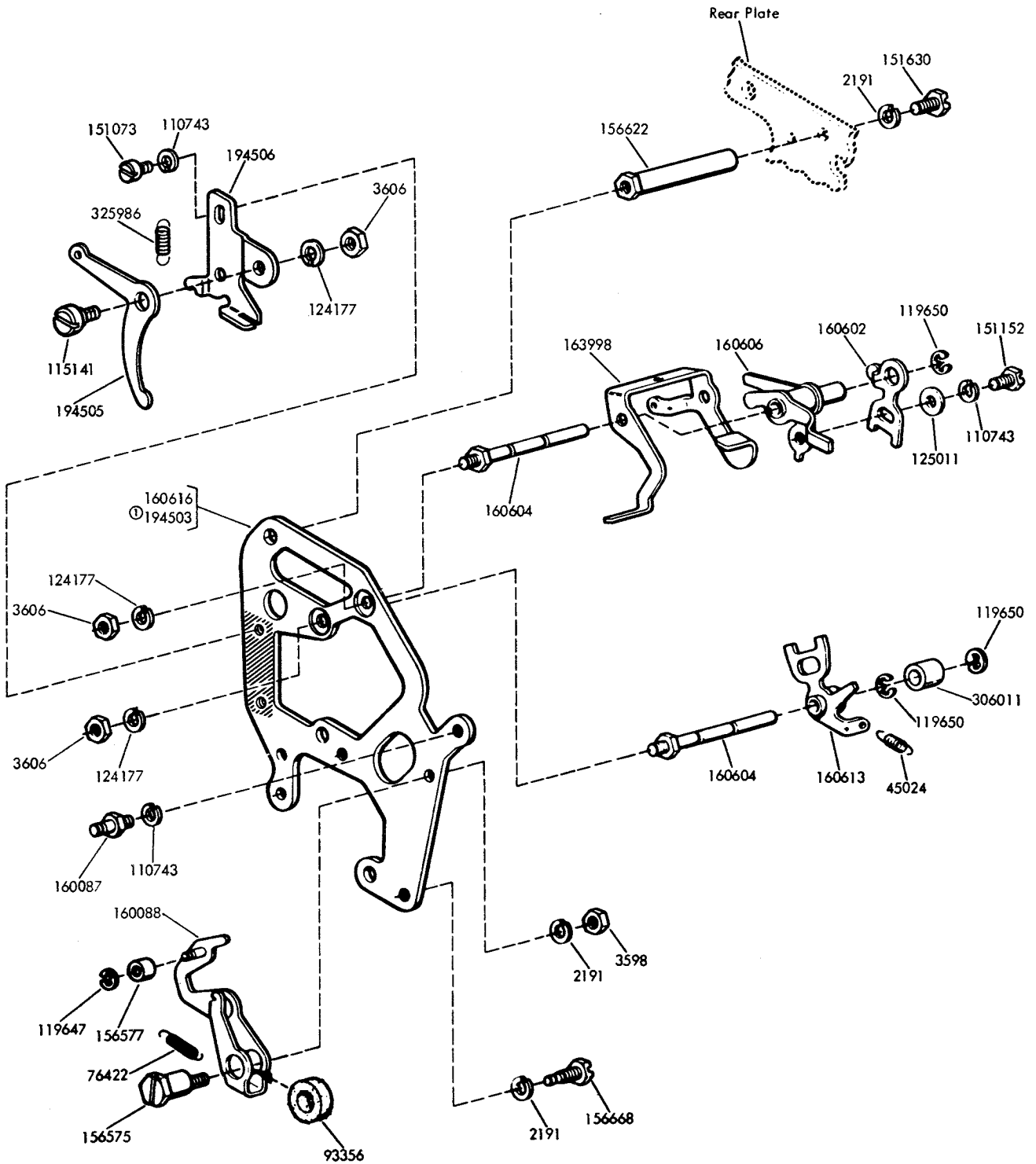
Ⓞ Peculiar to units equipped with a two cycle clutch

FIGURE 2. FRONT PLATE MECHANISM (Continued)



① 160094 Contact Assembly  
 ② 194545 Contact Assembly

FIGURE 3. FRONT PLATE MECHANISM (Continued)



① Holes in Crosshatched Area Are Peculiar to 194503

FIGURE 4. CENTER PLATE MECHANISM

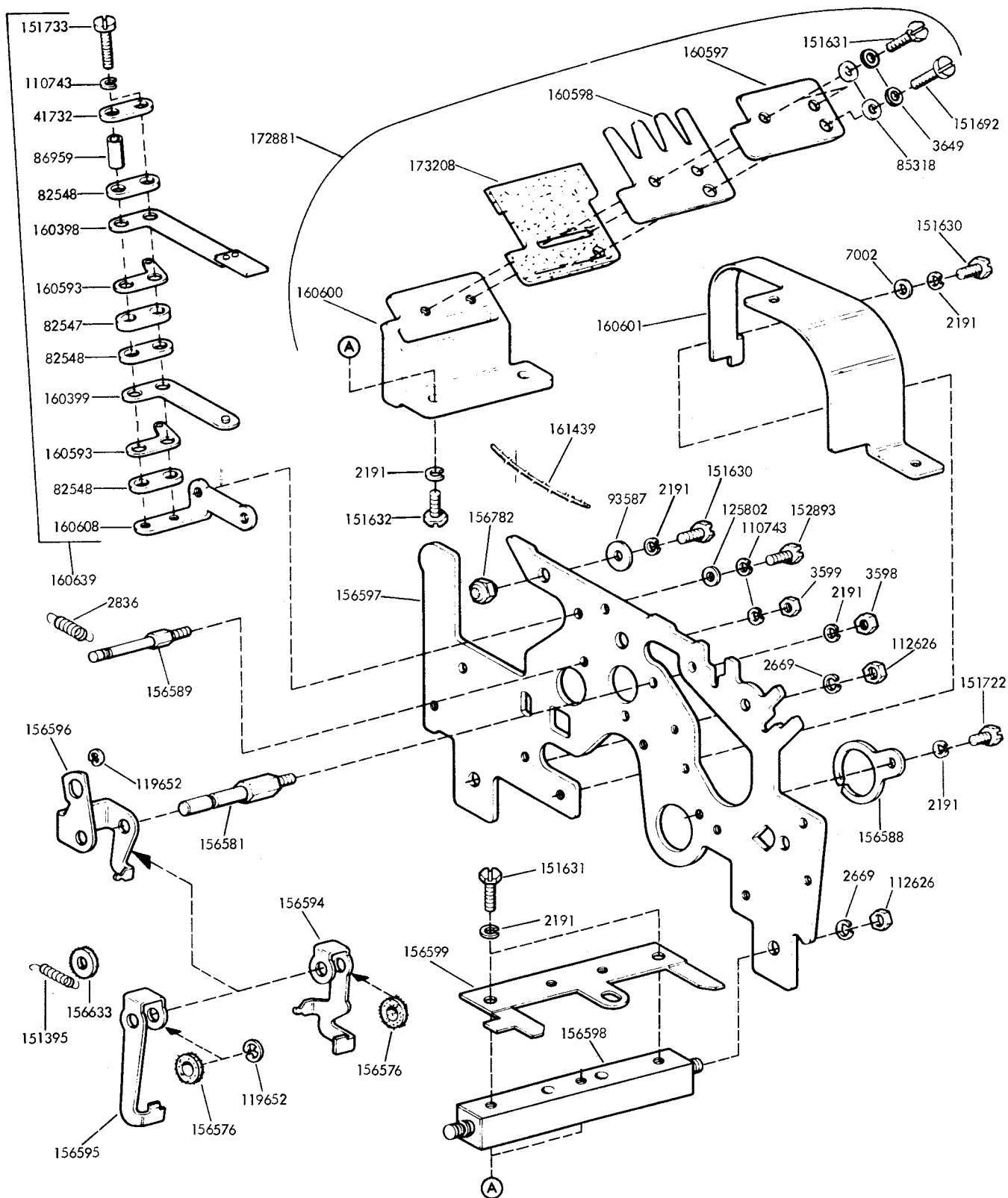


FIGURE 5. REAR PLATE MECHANISM

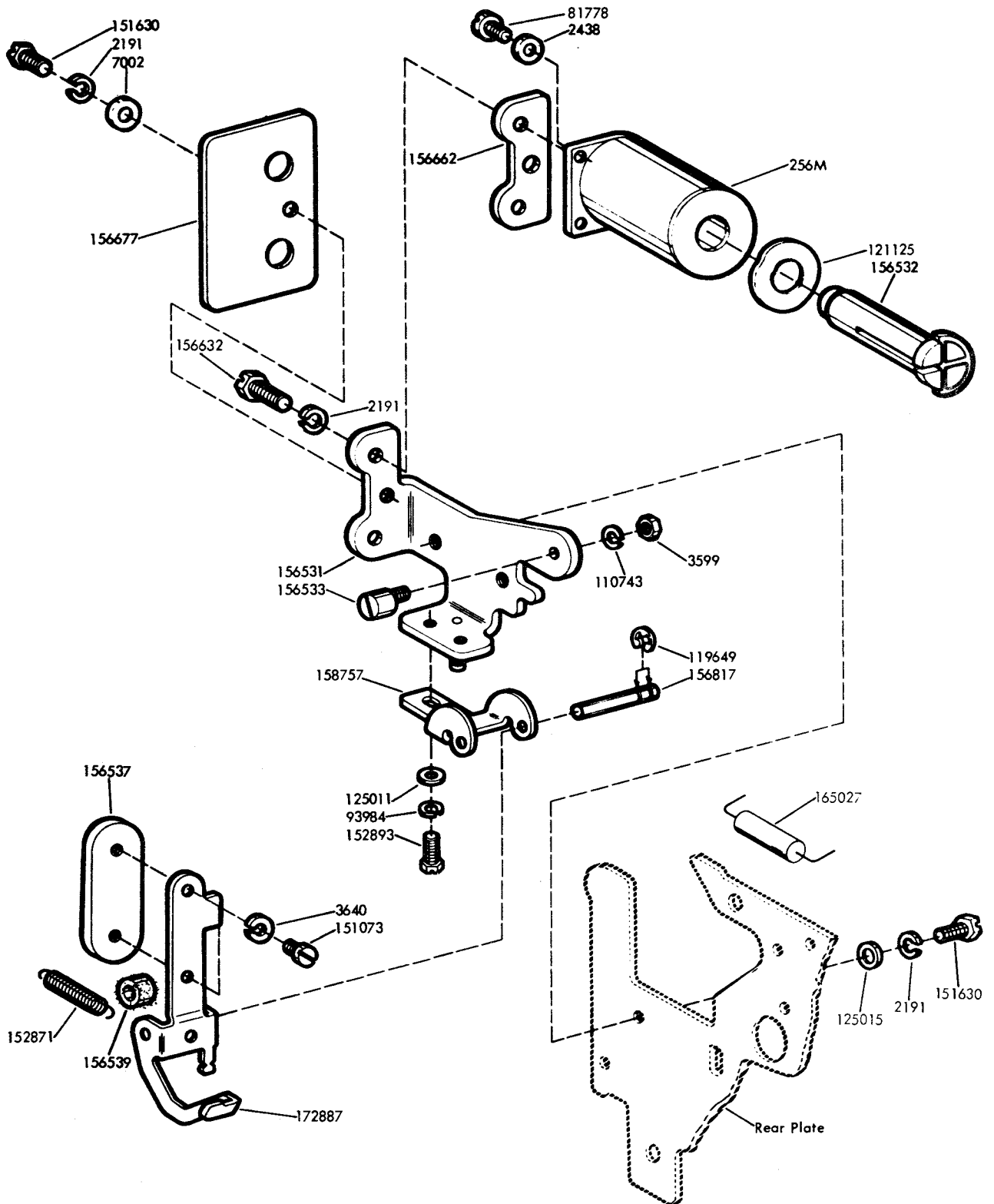


FIGURE 6. CLUTCH TRIP MAGNET MECHANISM



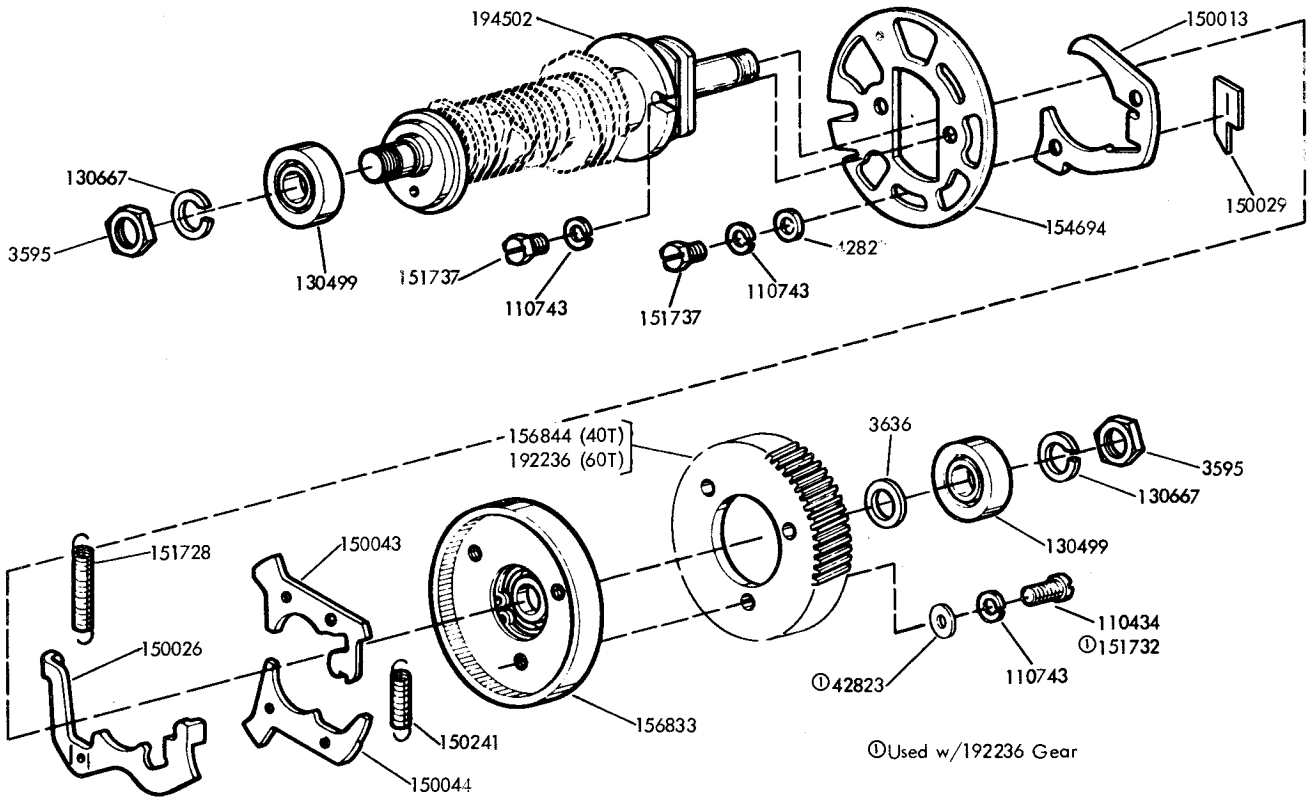


FIGURE 7. MAIN SHAFT MECHANISM - 1 CYCLE

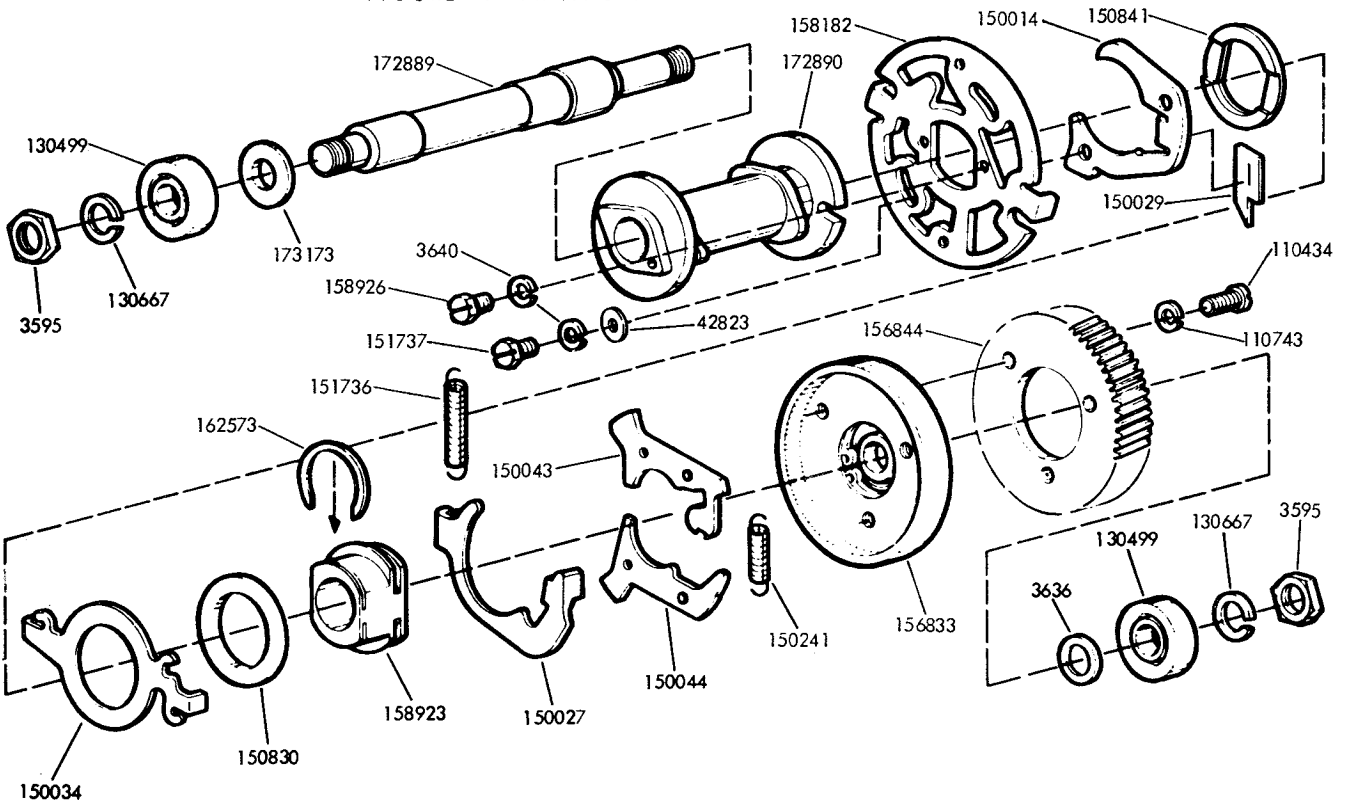


FIGURE 8. MAIN SHAFT MECHANISM - 2 CYCLE

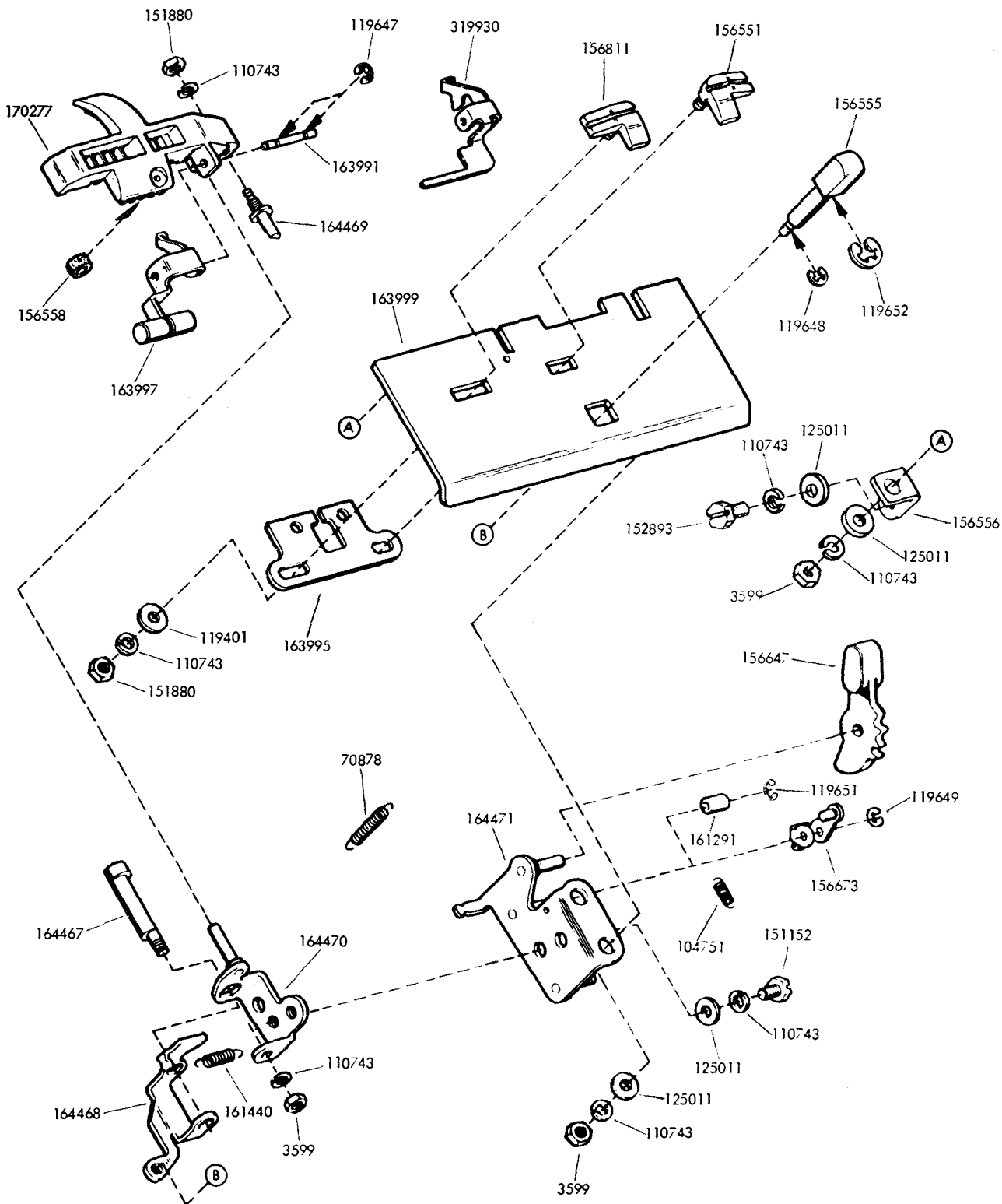


FIGURE 9. TAPE GUIDE PLATE MECHANISM

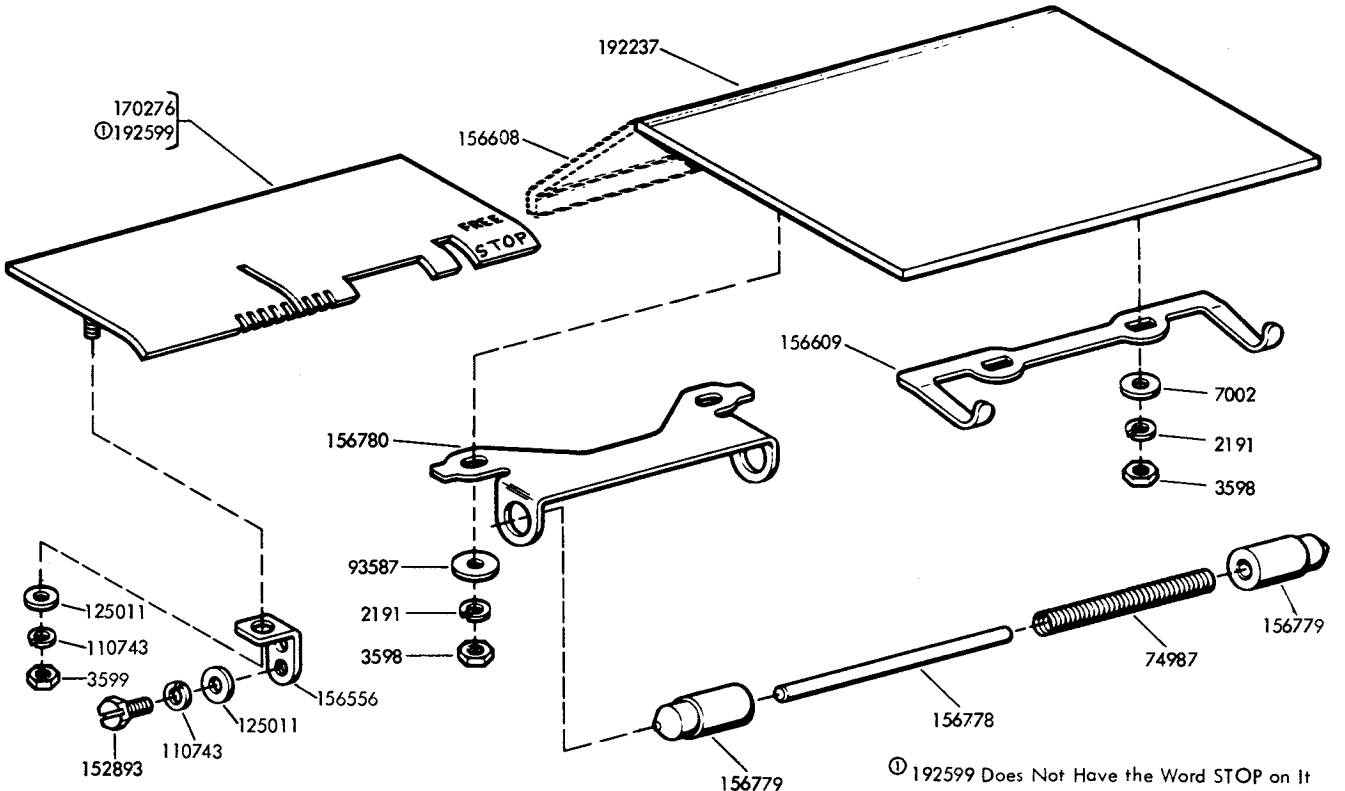


FIGURE 10. COVER AND TOP PLATES

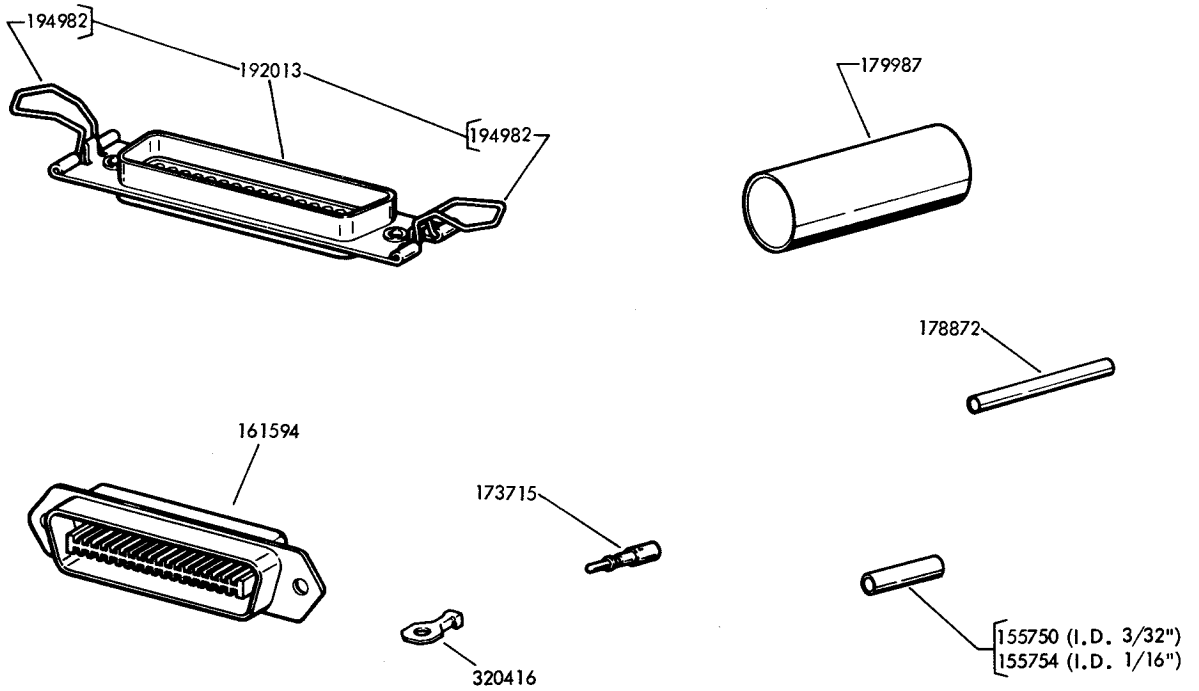


FIGURE 11. CABLE COMPONENTS

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
256M	Coil, Magnet 7	150026	Lever, Shoe Release 8	156597	Plate, Rear 6
2191	Washer, Lock 2 to 7, 10	150027	Lever, Shoe Release 8	156598	Post 3,6
2438	Washer, Flat 7	150029	Wick, Felt 8	156599	Plate 6
2669	Washer, Lock 3,6	150034	Disk, 2 Stop Clutch 8	156608	Plate, Cover 10
2836	Spring 6	150043	Shoe, Secondary Clutch 8	156609	Plate, Spring 10
3595	Nut, 1/4-32 Hex 8	150044	Shoe, Primary Clutch 8	156618	Post 2
3598	Nut, 1/4-32 Hex 2 to 6, 10	150241	Spring 8	156621	Guide, Transfer Lever 2
3599	Nut, 4-40 Hex 6,7,9,10	150830	Bushing, Shoulder 8	156622	Post 5
3606	Nut, 6-40 Hex 5	150841	Bearing 8	156631	Washer, Felt 2
3636	Washer, Flat 8	151073	Screw, 4-40 x 5/32 Fil 3,5,7	156632	Screw, 6-40 x 13/32 Hex 7
3640	Washer, Lock 3,4,7,8	151103	Spring 2	156633	Washer, Felt 6
3649	Washer, Flat 6	151152	Screw, 4-40 x 3/16 Hex 4,5,9	156638	Guide, Transfer Lever 4
7002	Washer, Flat 3,4,6,7,10	151395	Spring 6	156640	Post 2
7603	Spring 2	151398	Spring 4	156641	Pin, Sensing 2
8896	Shim, .004" Thk 4	151630	Screw, 6-40 x 1/4 Hex 3,5,6,7	156647	Lever, Start-Stop 9
31636	Spring 3	151631	Screw, 6-40 x 5/16 Hex 3,6	156649	Plate, Front 2
41732	Plate, Clamp 4,6	151632	Screw, 6-40 x 3/8 Hex 3,6	156662	Plate 7
41746	Bushing, Insulating 4	151685	Screw, 4-40 x 5/16 Fil 4	156668	Screw, 6-40 Spl 5
42823	Washer, Flat 8	151688	Screw, 4-40 x 5/8 Fil 4	156673	Bail w Stud 9
45024	Spring 5	151689	Screw, 4-40 x 3/4 Fil 4	156677	Plate, Insulator 7
70388	Spring 2	151692	Screw, 6-40 x 3/16 Fil 2,6	156778	Rod 10
70878	Spring 9	151722	Screw, 6-40 x 3/16 Hex 2,4,6	156779	Plunger 10
74728	Terminal, Contact 4	151728	Spring 8	156780	Bracket, Detent 10
74987	Spring, Compression 10	151732	Screw, 4-40 x 11/32 Fil 8	156782	Nut, 6-40 Spl 3,6
76275	Plate, Nut 3	151733	Screw, 4-40 x 9/16 Fil 6	156811	Guide, Left 9
76422	Spring 5	151736	Spring 8	156817	Shaft 7
76461	Washer, Flat 3	151737	Screw, 4-40 x 11/64 Hex 3,8	156831	Clamp 3
78557	Spring 2	151880	Nut, 4-40 Hex 4,9	156832	Plate 3
80945	Spring 4	152871	Spring 2,7	156833	Drum Assembly, Clutch 8
81778	Screw, 4-40 x 3/16 Fil 7	152893	Screw, 4-40 x 1/4 Hex 6,7,9,10	156844	Gear, 40T 8
82547	Insulator, .094" Thk 6	153799	Screw, 4-40 x 21/64 Hex 4	158182	Disk, Clutch Cam 8
82548	Insulator, .062" Thk 4,6	153819	Washer, Lock 3	158757	Hinge, Mounting 7
85318	Washer, Leather 6	154040	Lever, Transfer 2	158923	Bearing, Sleeve 8
86283	Spring 2	154335	Screw, 6-40 x 9/32 Fil 4	158926	Screw, 4-40 x 7/32 Hex 8
86959	Bushing, Insulating 6	154694	Disk, Clutch Cam 8	159291	Bail 3
93118	Washer, Lock 3	155494	Spring 2	159292	Bail 3
93356	Washer, Felt 5	155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 10	159295	Bracket w/Posts 3
93587	Washer, Flat 3,6,10	155754	Sleeve, 1/16 ID x 1/2" Lg Insulating 10	159297	Arm, Stop 3
93984	Washer, Lock 7	156450	Screw, 2-56 x 1/2 Fil 3	159298	Spring, Torsion 3
101998	Bushing, Shoulder 3	156501	Screw, 6-40 x 7/32 Fil 3	159570	Spring, Contact 4
102994	Washer, Flat 2	156518	Post 2	159571	Stiffener 4
104751	Spring 9	156519	Washer, Felt 2	160025	Bracket 2
110434	Screw, 4-40 x 3/16 Fil 8	156520	Arm 2	160067	Wheel, Feed 2
110435	Nut, 4-40 Hex 4	156521	Screw, 6-40 Eccentric Shoulder 2	160086	Post, Guide 2
110743	Washer, Lock 3 to 10	156522	Pawl 2	160087	Post, Spring 5
112626	Nut, 10-32 Hex 3,6	156523	Stud, Eccentric 2	160088	Bail w/Stud 5
115141	Screw, 6-40 Shoulder 5	156524	Bail 2	160089	Past, Stap 4
115221	Washer, Felt 2	156531	Bracket w/Post 7	160094	Contact Assembly, Auxiliary 4
119401	Washer, Flat 9	156532	Core 7	160095	Bracket 4
119647	Ring, Retaining 4,5,9	156533	Screw, 4-40 Eccentric 7	160096	Bracket w/Bushing 4
119648	Ring, Retaining 9	156537	Armature 7	160097	Contact Assembly 4
119649	Ring, Retaining 7,9	156539	Washer, Felt 7	160398	Spring, Contact 6
119650	Ring, Retaining 5	156551	Guide, Right 9	160399	Spring, Contact 6
119651	Ring, Retaining 9	156555	Plunger, Tape Lid 9	160593	Terminal 4,6
119652	Ring, Retaining 2,4,6,9	156556	Bracket 9,10	160596	Spring 3
121125	Washer, Spring 7	156558	Washer, Felt 9	160597	Plate 6
124177	Washer, Lock 2,5	156575	Screw, 6-40 Eccentric Shoulder 5	160598	Stiffener 6
125011	Washer, Flat 3,4,5,7,9,10	156576	Washer, Felt 6	160600	Reservoir, Oil 6
125015	Washer, Flat 7	156577	Roller, Detent Lever 5	160601	Guard 6
125229	Nut, 6-32 Hex 3	156581	Stud 6	160602	Arm 5
125802	Washer, Flat 6	156588	Ring, Retaining 6	160604	Post 5
128357	Ring, Retaining 3	156589	Post, Spring 6	160606	Arm w/Spring Past 5
130499	Bearing, Ball 8	156594	Lever, Trip 6	160608	Bracket, Contact 6
130667	Washer, Lock 8	156595	Lever, Latch 6	160613	Arm w/Hub 5
130683	Washer, Lock 4	156596	Bail 6	160616	Plate 5
138034	Plate, Clamp 3			160625	Clip w/Wick 3
150013	Disk, Adjusting 8			160626	Insulator, .031" Thk 3
150014	Disk, Adjusting 8				

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
160627	Bushing, Insulating 3	163995	Plate 9	174010	Plate 4
160628	Spring, Contact 3	163997	Bail 9	177048	Latch 2
160629	Bracket, Contact 3	163998	Bail 5	178872	Sleeve, 1/16 ID x 1-1/4" Lg Insulating 10
160630	Spring, Contact 3	163999	Plate, Tape Guide 9	179189	Screw, 6-40 Eccentric Shoulder 2
160631	Spring, Contact 3	164000	Pin, Tape Out 2	179987	Sleeve, 9/16 ID x 1-5/8" Lg Insulating 10
160632	Contact Assembly 3	164467	Post, Eccentric 9	192013	Connector, 50 Pt Plug Type 10
160638	Bracket, Spring 3	164468	Bail 9	192236	Gear, 60T 8
160639	Contact Assembly 6	164469	Past 9	192237	Plate, Cover 10
161100	Spring, Contact 4	164470	Bracket w/Stud 9	192591	Plate w/Studs 3
161102	Spring, Contact 4	164471	Bracket w/Studs 9	192599	Plate w/Studs 10
161291	Bushing 9	165027	Network, Spark Suppression 7	194502	Camshaft 8
161439	Wick, Felt 6	170276	Plate, Cover 10	194503	Plate, Center 5
161440	Spring 9	170277	Lid, Tape 9	194505	Follower, Cam 5
161592	Plate w/Studs 3	170282	Nut, 6-40 Hex 2	194506	Bracket, Cam Follower Guide 4
161594	Connector, 36 Pt Plug 10	172881	Reservoir Assembly, Oil 6	194544	Bracket, Contact Assembly 4
162249	Screw, 6-32 Insulating 3	172885	Arm, Cam Follower 2	194545	Contact Assembly, Auxiliary 4
162493	Bail 4	172887	Bail 7	194546	Insulator 4
162498	Screw, 4-40 Eccentric 4	172889	Shaft, Main 8	194982	Clip, Connector 10
162499	Nut, 4-40 Shoulder 4	172890	Camsleeve 8	305087	Post 4
162500	Arm, Sensing 4	172899	Post, Guide 4	306011	Sleeve, Stop 5
162501	Post, Spring 4	172900	Post, Stop 4	319930	Bail 9
162503	Shaft, Spring 4	173171	Plate w/Stud 3	320416	Terminal, Ring Type 10
162573	Retainer 8	173173	Disk 8	320424	Bail 2
163991	Shaft 9	173208	Wick, Leather 6	325986	Spring 5
163992	Arm, Extension 3	173715	Terminal, Plug Type 10	328175	Nut, 3-48 Hex 3