

35 AUTOMATIC SEND-RECEIVE KEYBOARD (LAK)
PARTS

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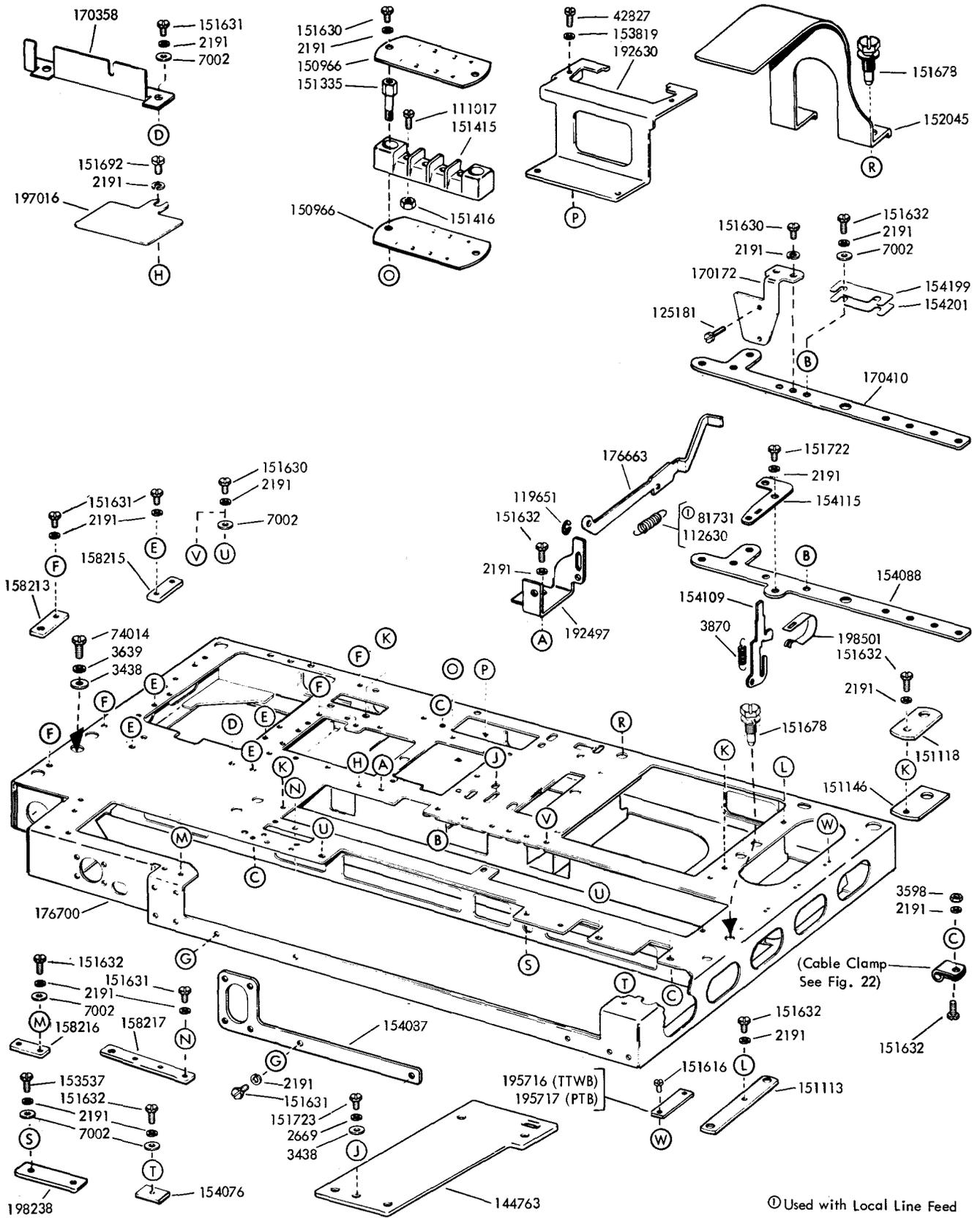


FIGURE 1. KEYBOARD BASE

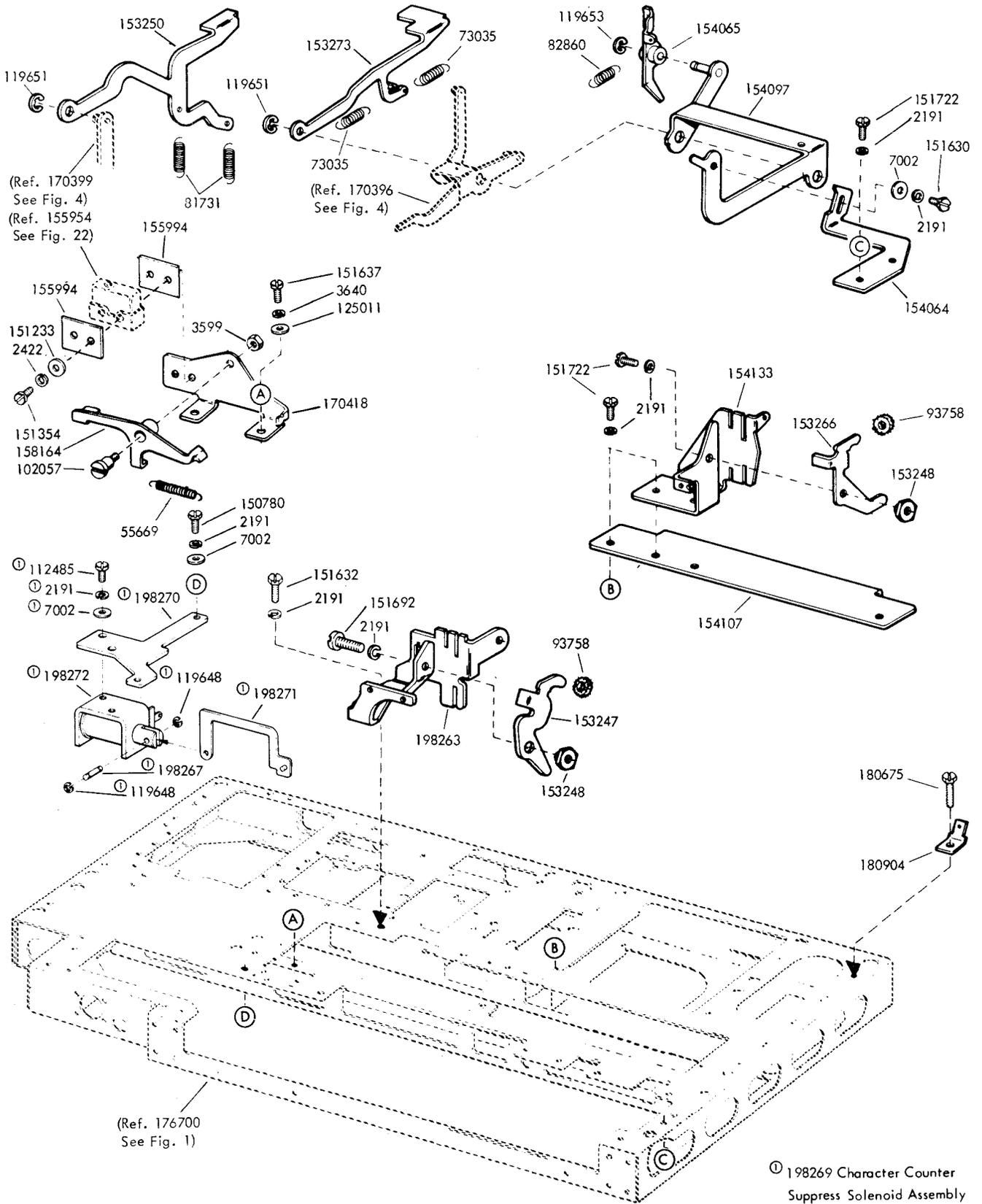


FIGURE 2. KEYBOARD BASE (Continued)

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

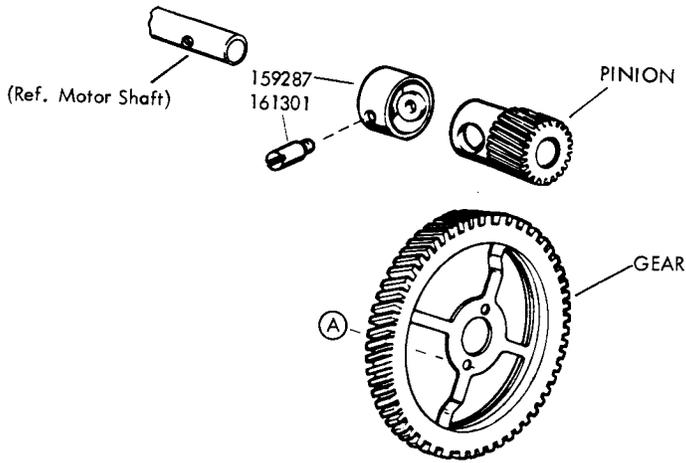
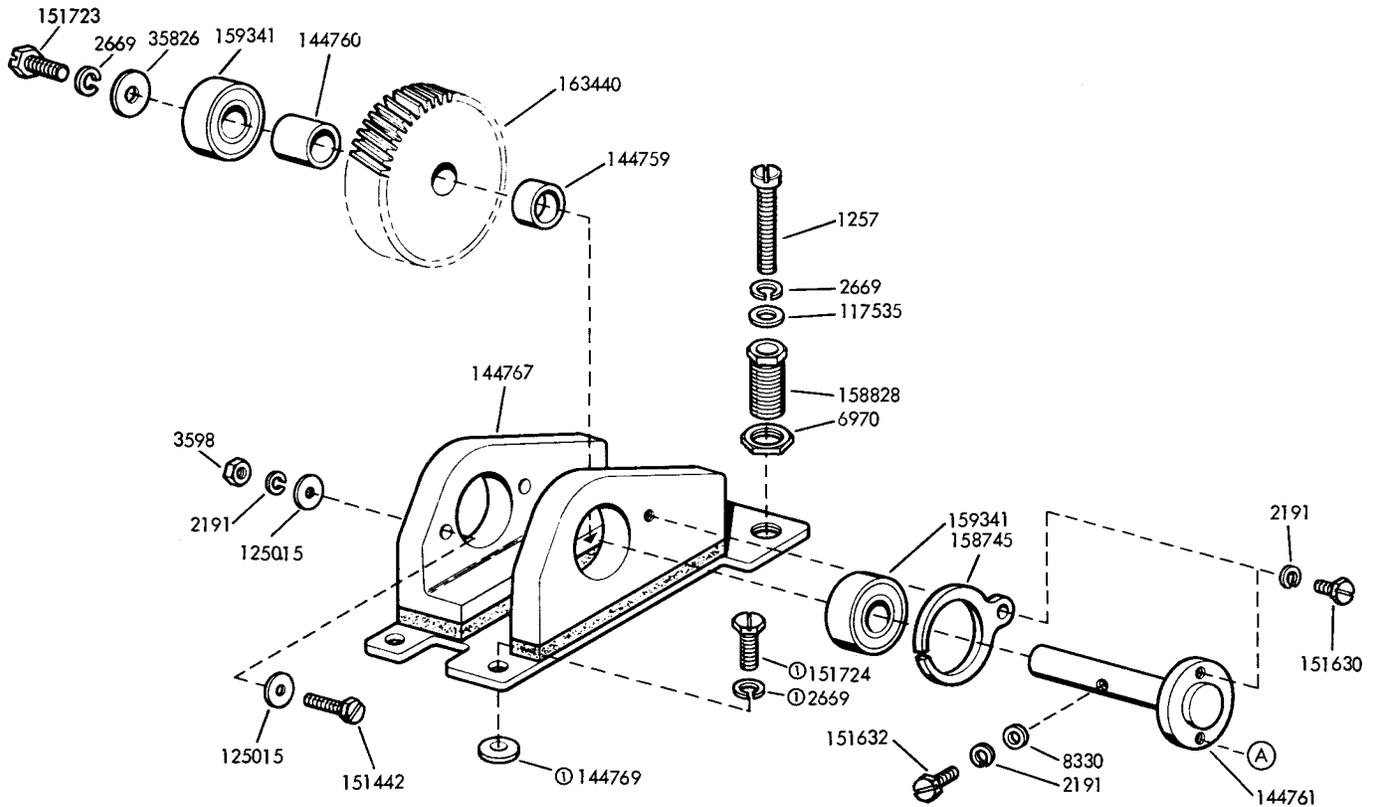


FIGURE 5. GEAR SETS



ⓐ Not part of 144770

FIGURE 6. 144770 INTERMEDIATE GEAR ASSEMBLY

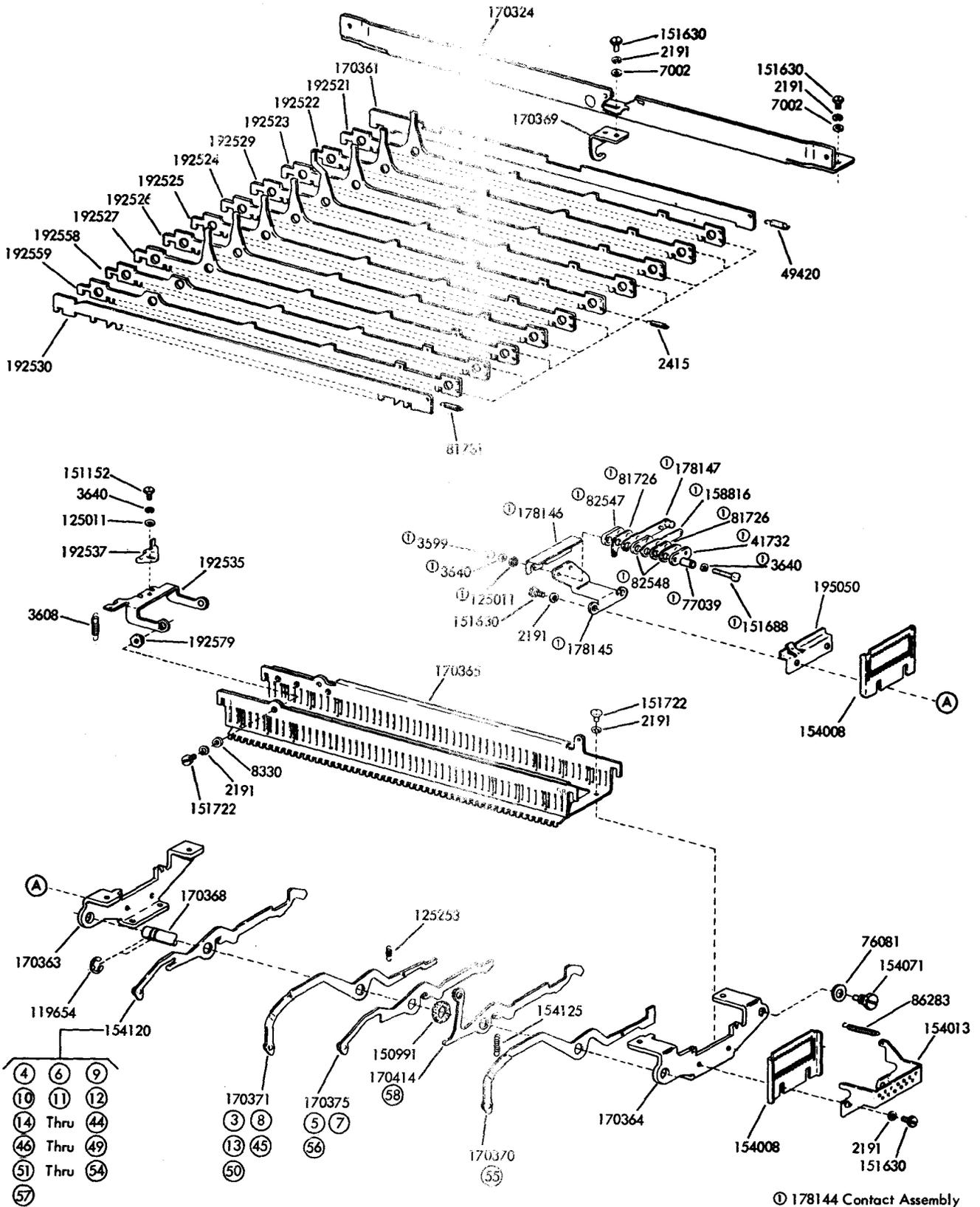


FIGURE 7. CODE BAR MECHANISM (Non Parity)

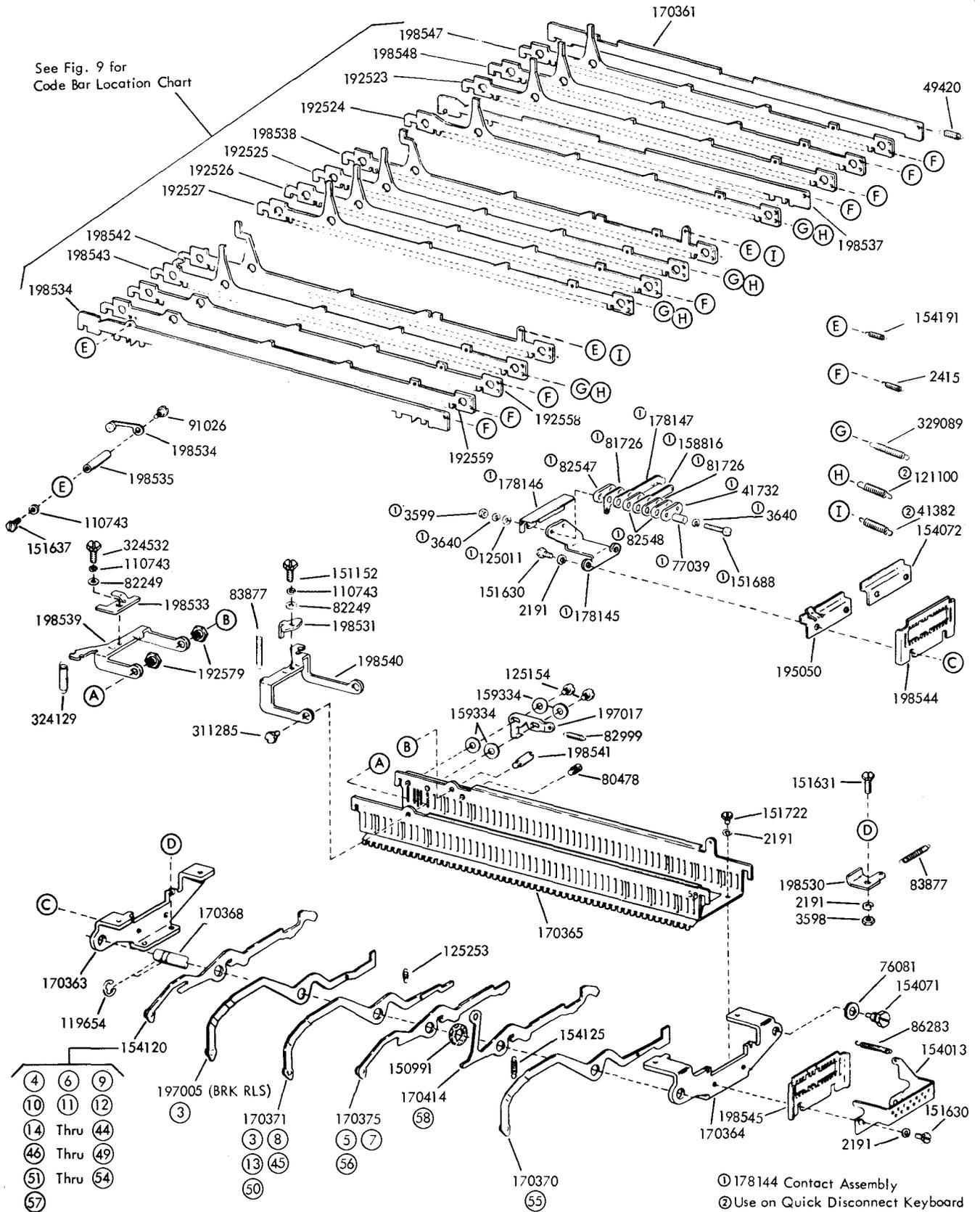
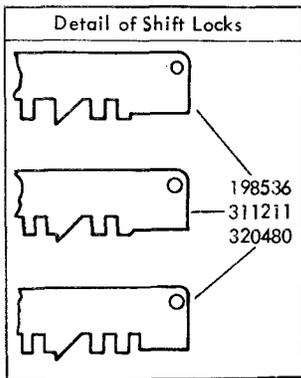
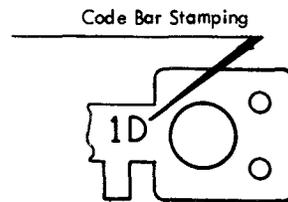
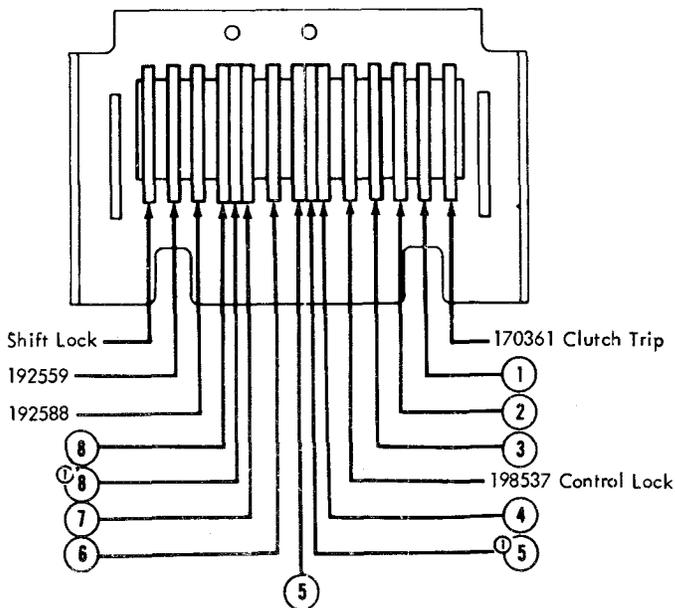


FIGURE 8. CODE BAR MECHANISM (Even Parity)

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)

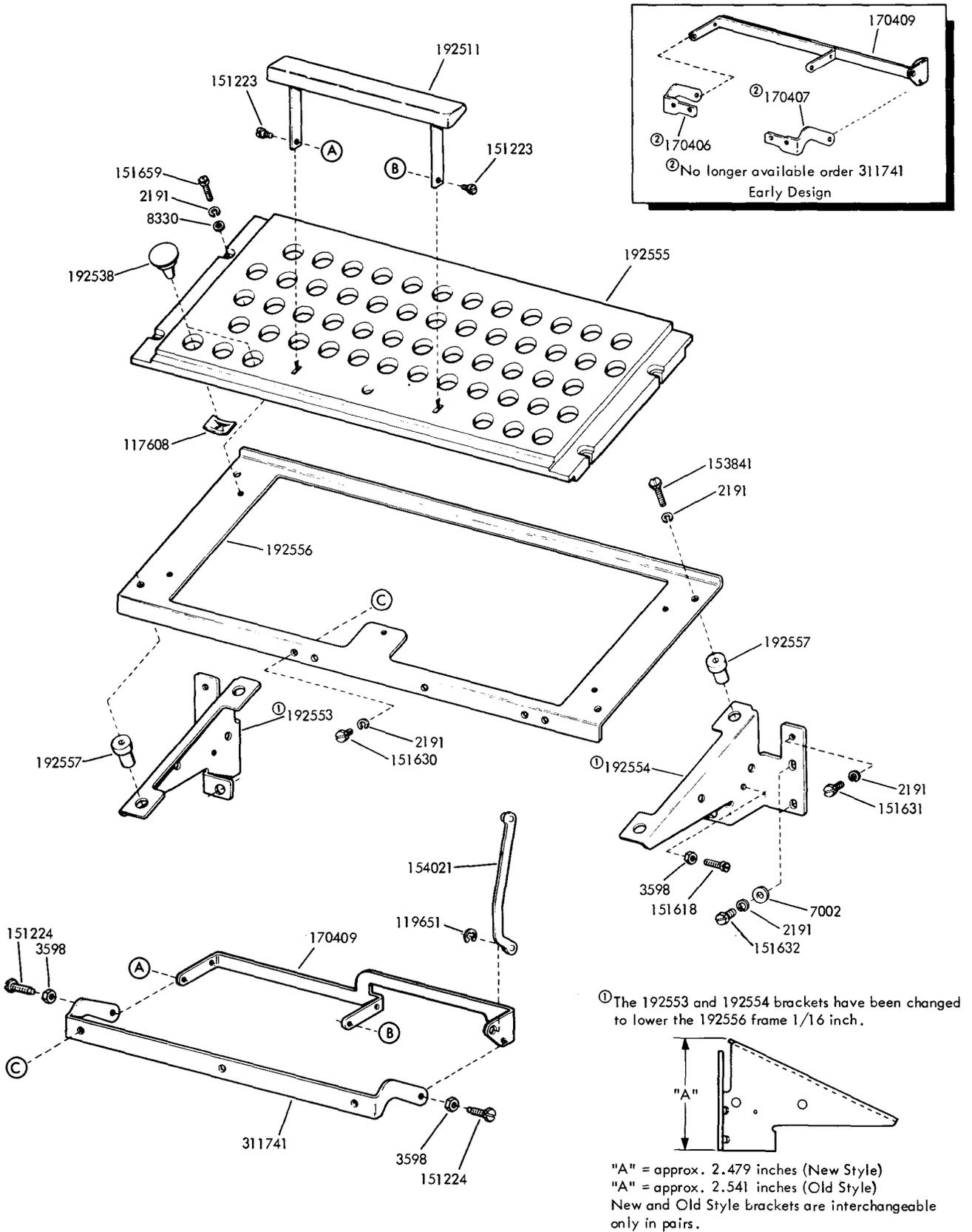
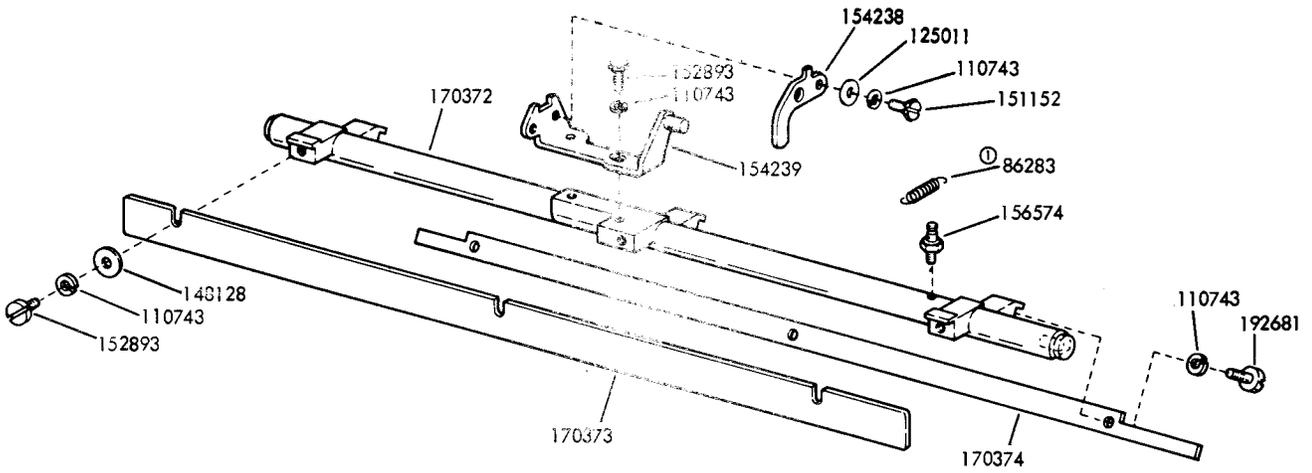
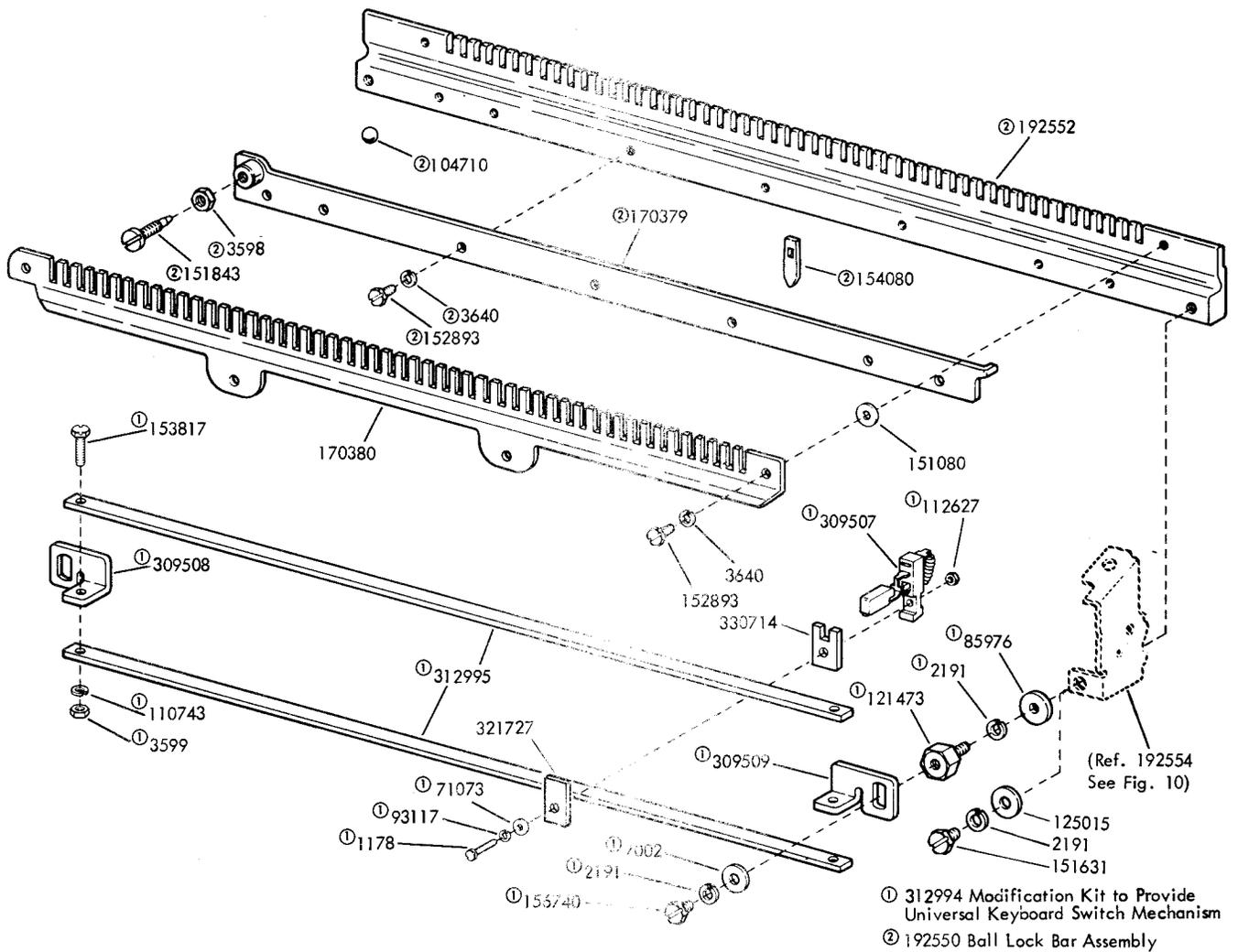


FIGURE 10. KEYBOARD MECHANISM



① Not part of 170332

FIGURE 11. 170332 UNIVERSAL BAIL ASSEMBLY



① 312994 Modification Kit to Provide Universal Keyboard Switch Mechanism
 ② 192550 Ball Lock Bar Assembly

FIGURE 12. BALL LOCK MECHANISM

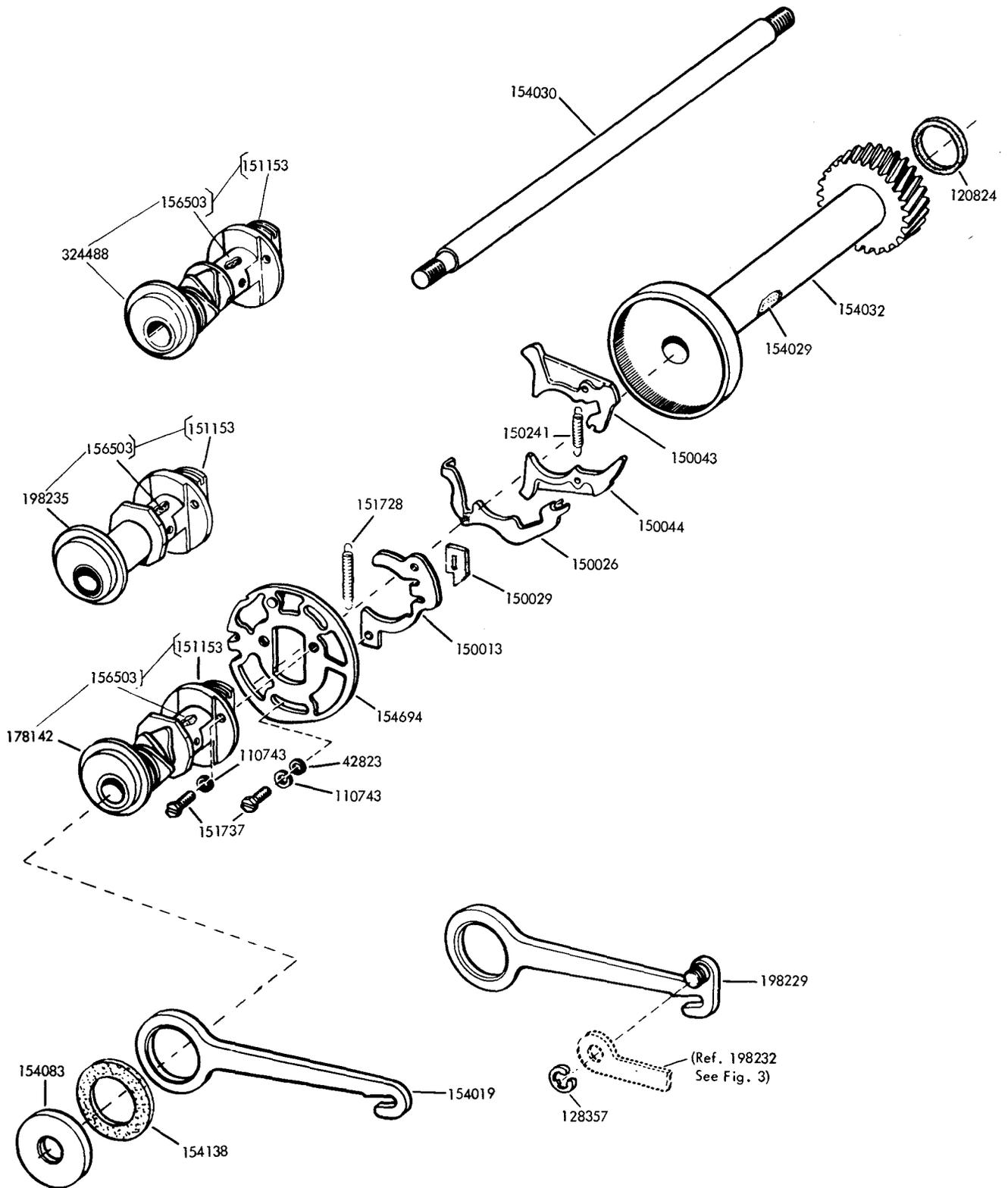


FIGURE 13. SIGNAL GENERATOR SHAFT MECHANISM

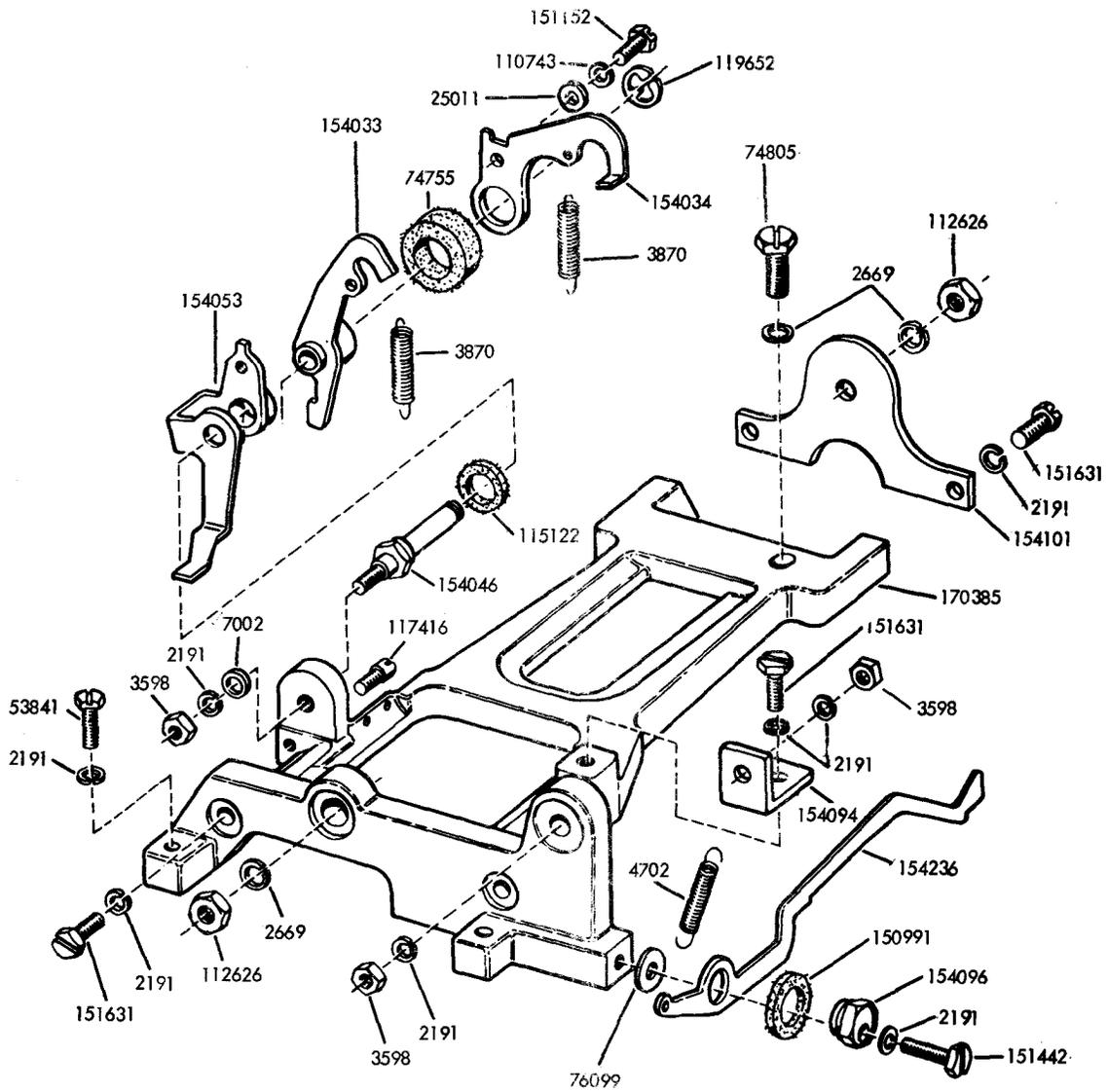


FIGURE 14. SIGNAL GENERATOR FRAME MECHANISM

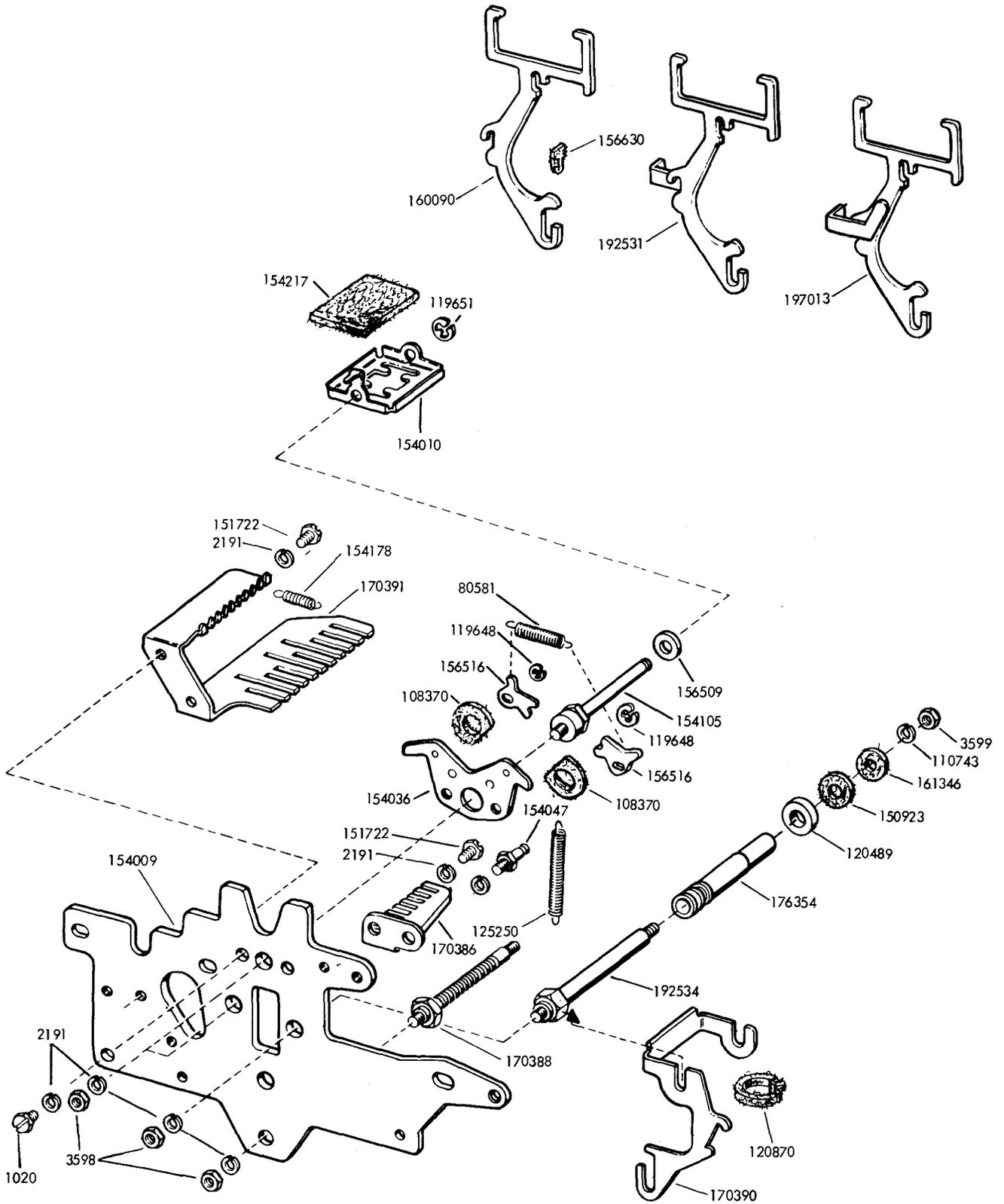


FIGURE 15. SIGNAL GENERATOR FRONT PLATE MECHANISM

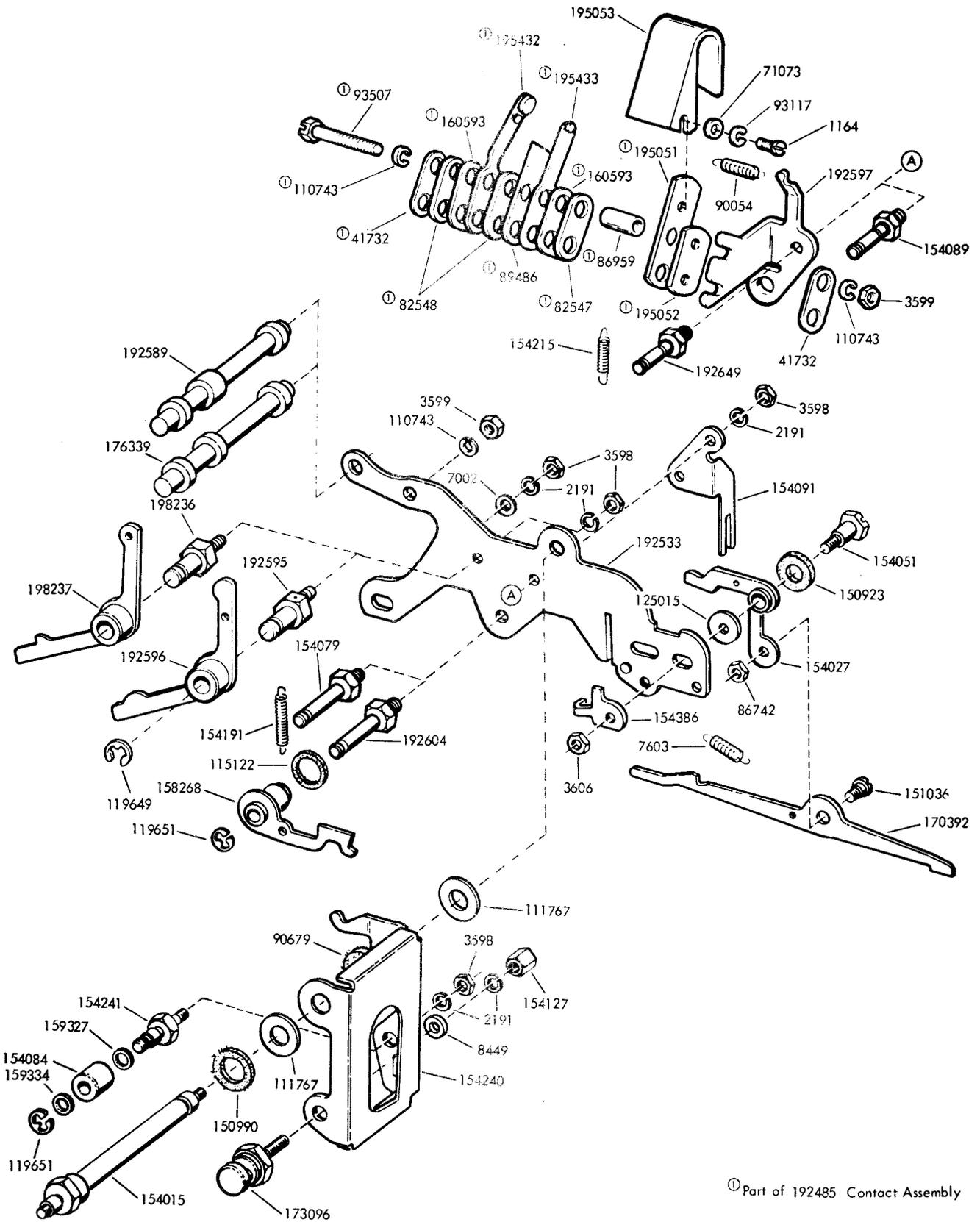


FIGURE 16. SIGNAL GENERATOR REAR PLATE MECHANISM

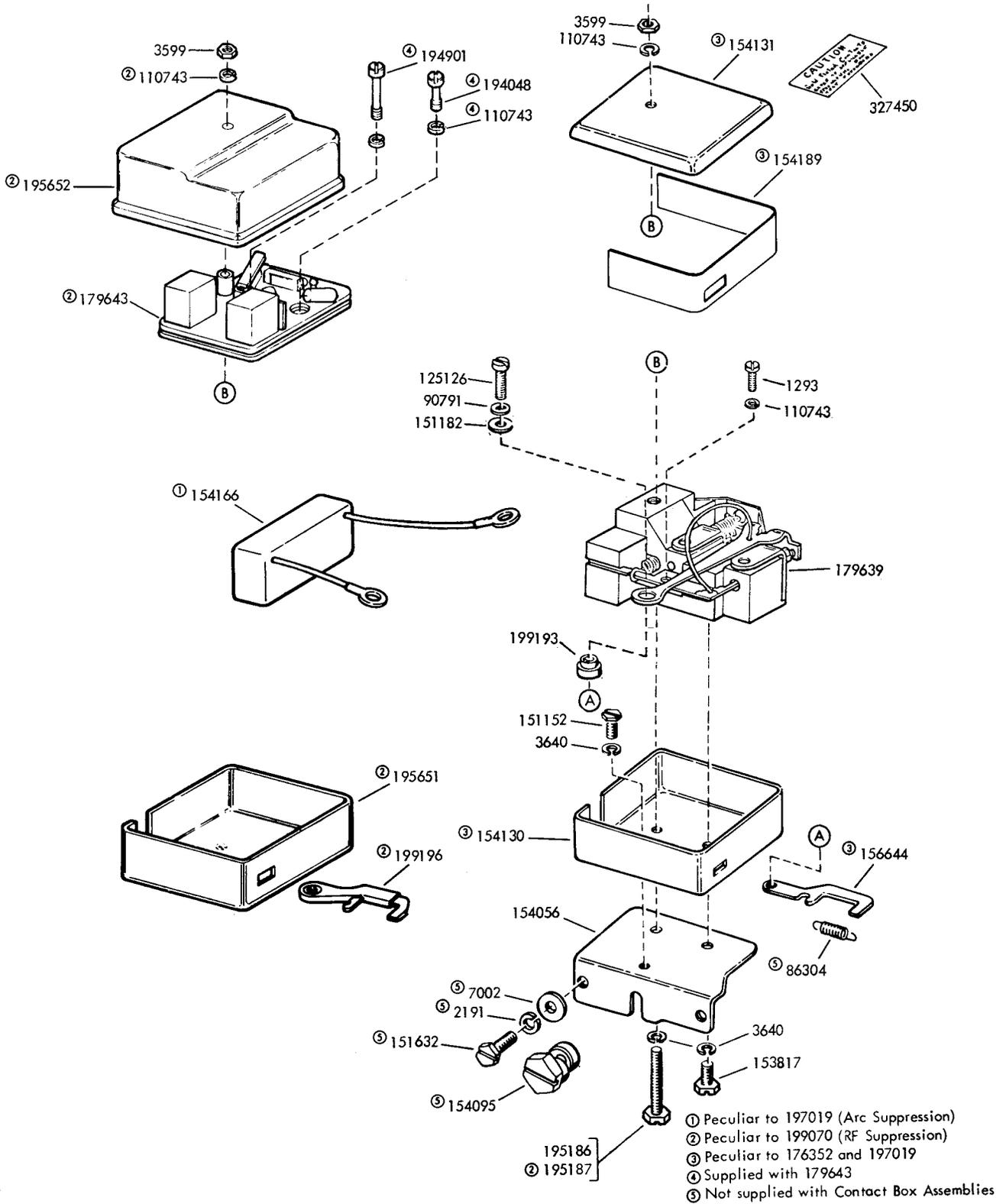


FIGURE 17. 176352, 197019 AND 199070 CONTACT BOX ASSEMBLIES

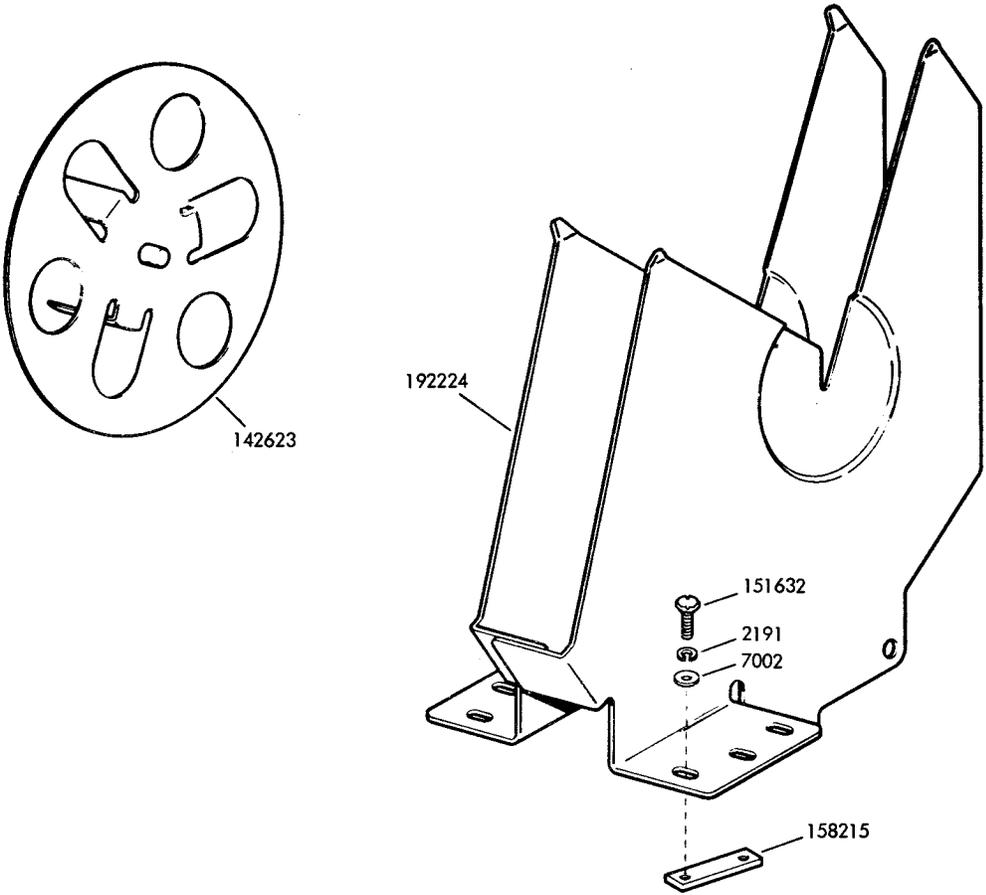


FIGURE 20. TAPE CONTAINER

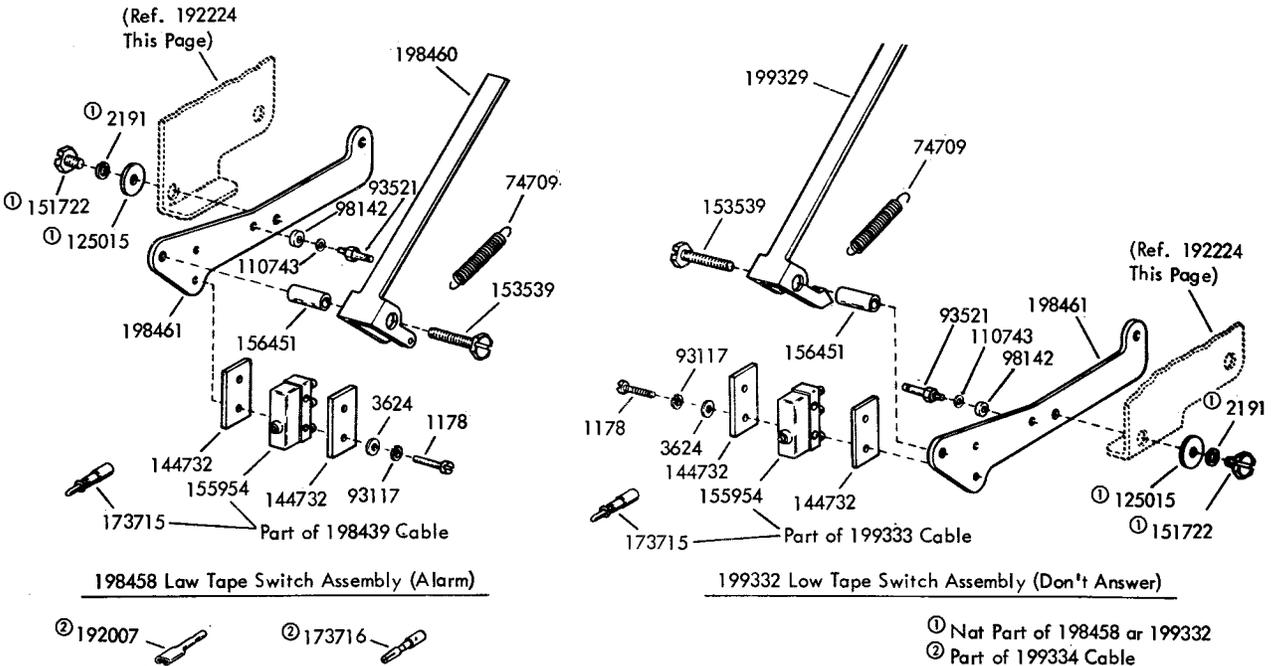
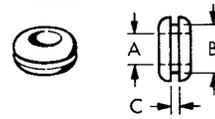
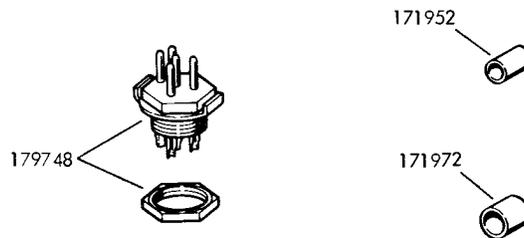


FIGURE 21. 199330 MODIFICATION KIT TO PROVIDE ALARM AND DON'T ANSWER ON LOW TAPE

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"

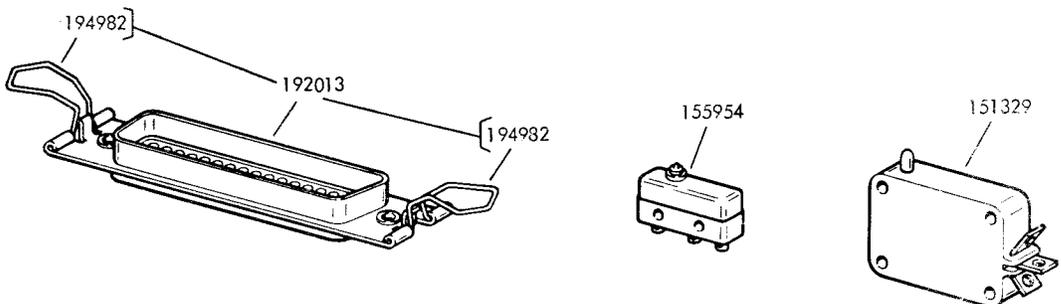
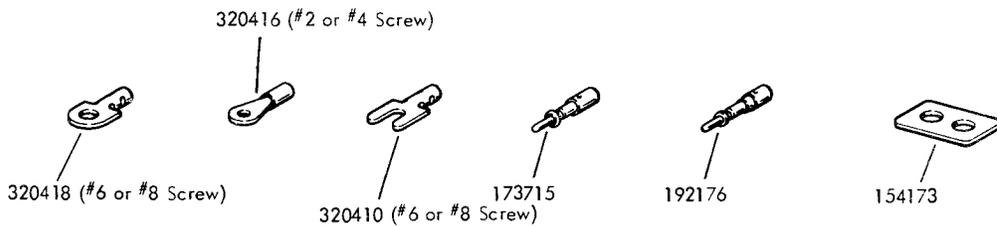
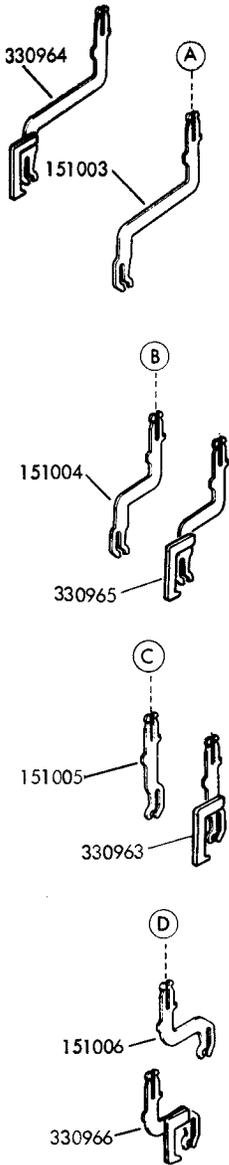


FIGURE 22. CABLE COMPONENTS



KEYTOPS							
KEYTOP DESCRIPTION	PART NUMBER						
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

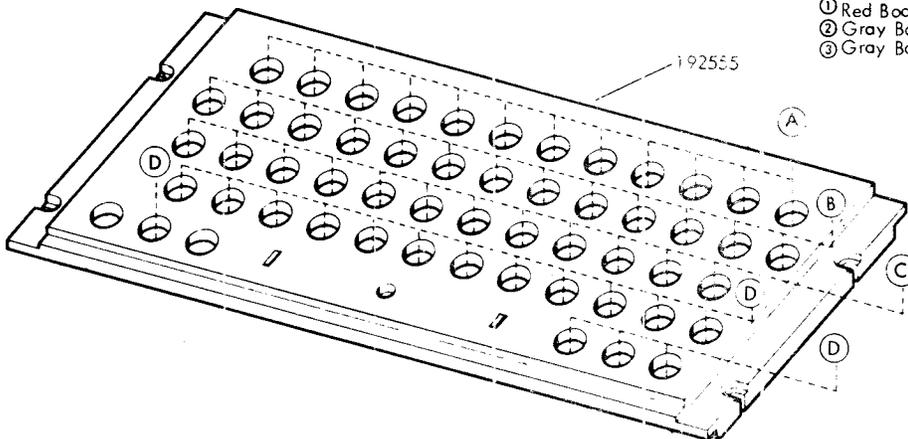


FIGURE 23. KEYTOPS AND KEYLEVERS

KEYTOP DESCRIPTION	PART NUMBER								
□	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)

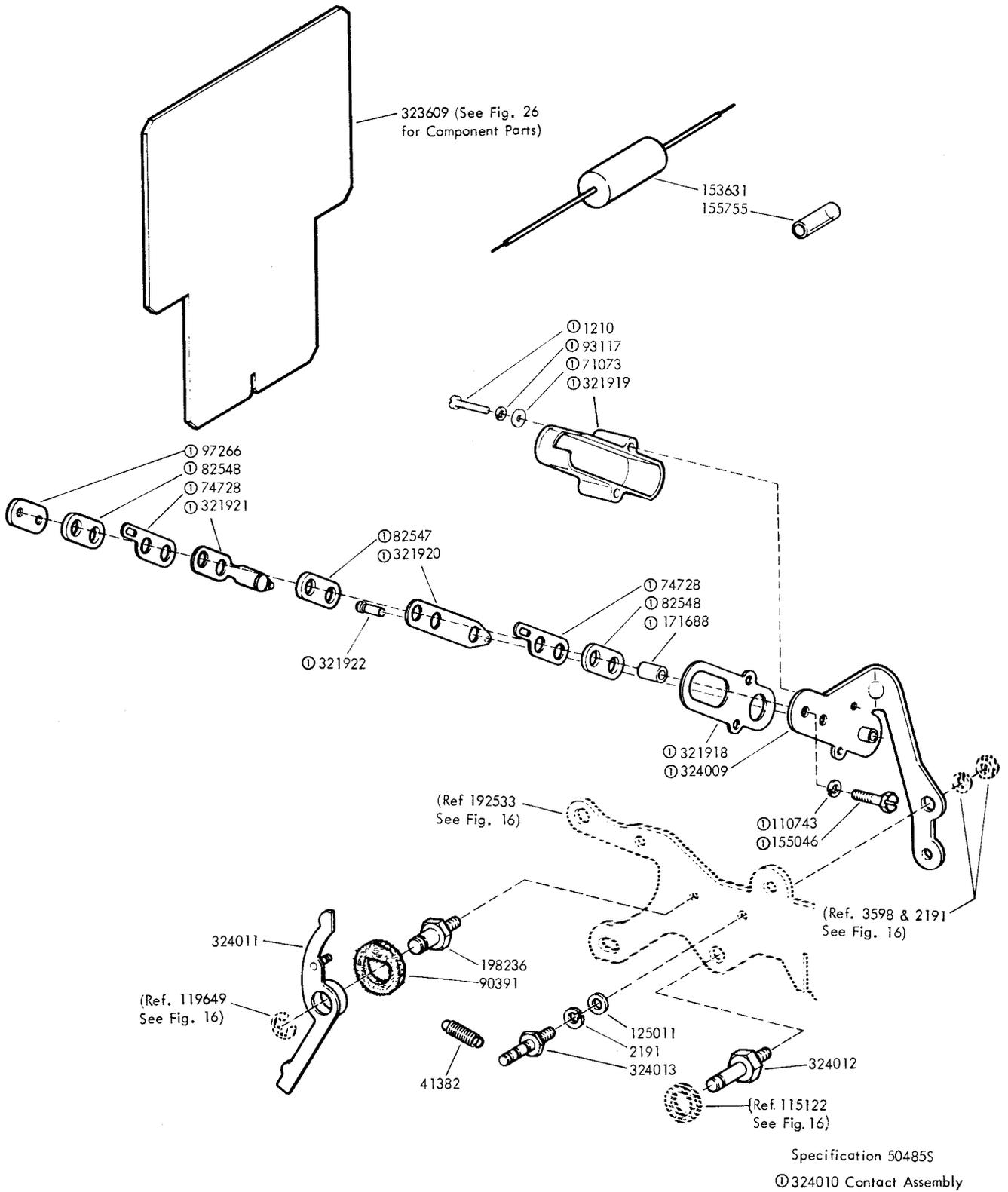
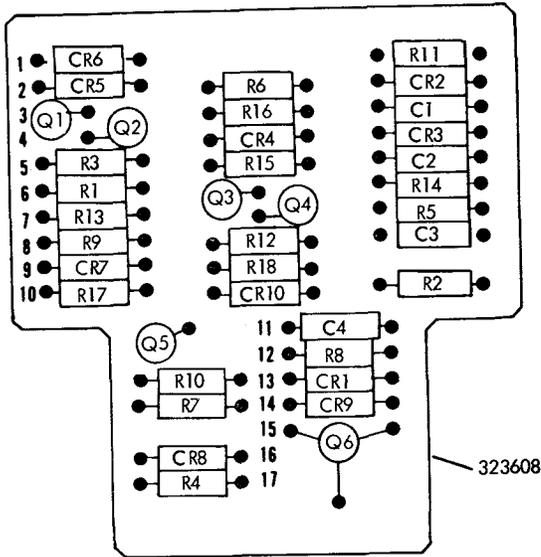
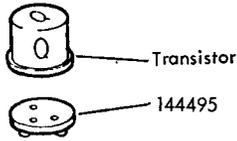


FIGURE 25. 324584 MODIFICATION KIT FOR SIGNAL REGENERATOR



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
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