

BULLETIN 1172B

**28 and 29 NONTYPING
REPERFORATOR SET (LRPE)**

PARTS



**TELETYPE®
CORPORATION**

5555 TOUHY AVENUE, SKOKIE, ILLINOIS



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573-119-800TC	28 and 29 Nontyping Reperforator (LRPE)	1	August, 1966
573-121-800TC	28 Receiving-only Reperforator or Tape Printer Base (LRB) and 28 Receiving-only Multiple Reperforator Base (LMRB)	*2	July, 1967
573-123-800TC	28 Send-Receive Reperforator Keyboard Base (LTRK) and 28 Send-Receive Tape Printer Keyboard Base (LTPK)	1	March, 1965
573-133-801TC	28 Electrical Service Unit (LESU) for Reperforators	*2	October, 1967
573-135-800TC	28 Receiving-only Reperforator or Tape Printer Cover (LRC), 28 Send-Receive Reperforator or Tape Printer Cover (LSRC) and 28 Reperforator or Tape Printer Table (LT)	1	March, 1965
573-136-800TC	28 Apparatus Cabinet (LBAC) - Receiving, Monitoring and Transmitting-Monitoring	1	March, 1965

*Indicates change

Refer to Bulletin 295B for Motor Units



28 and 29 NONTYPING REPERFORATOR (LRPE)

PARTS

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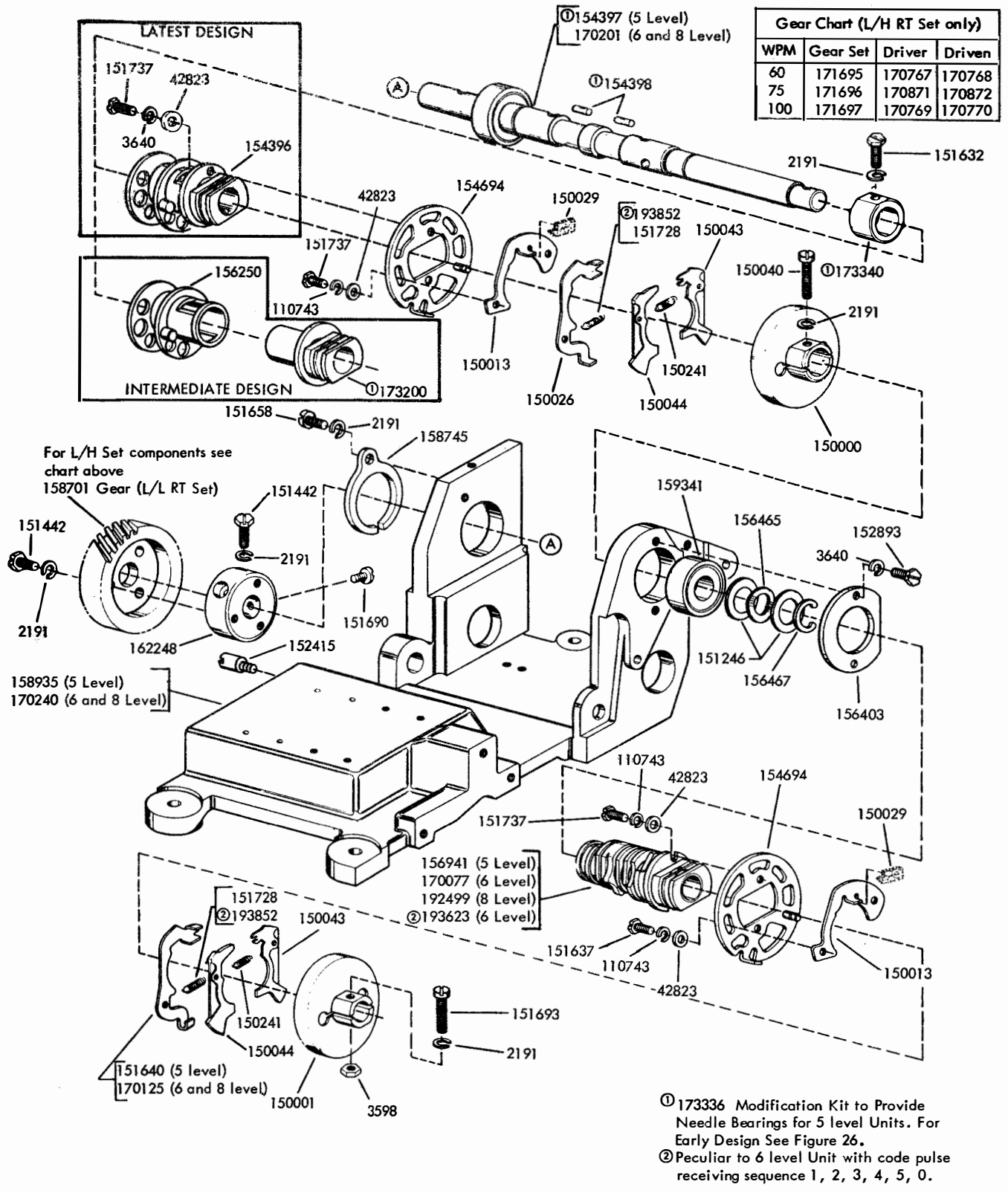


FIGURE 1. SINGLE CYCLE SELECTOR CLUTCH MECHANISM

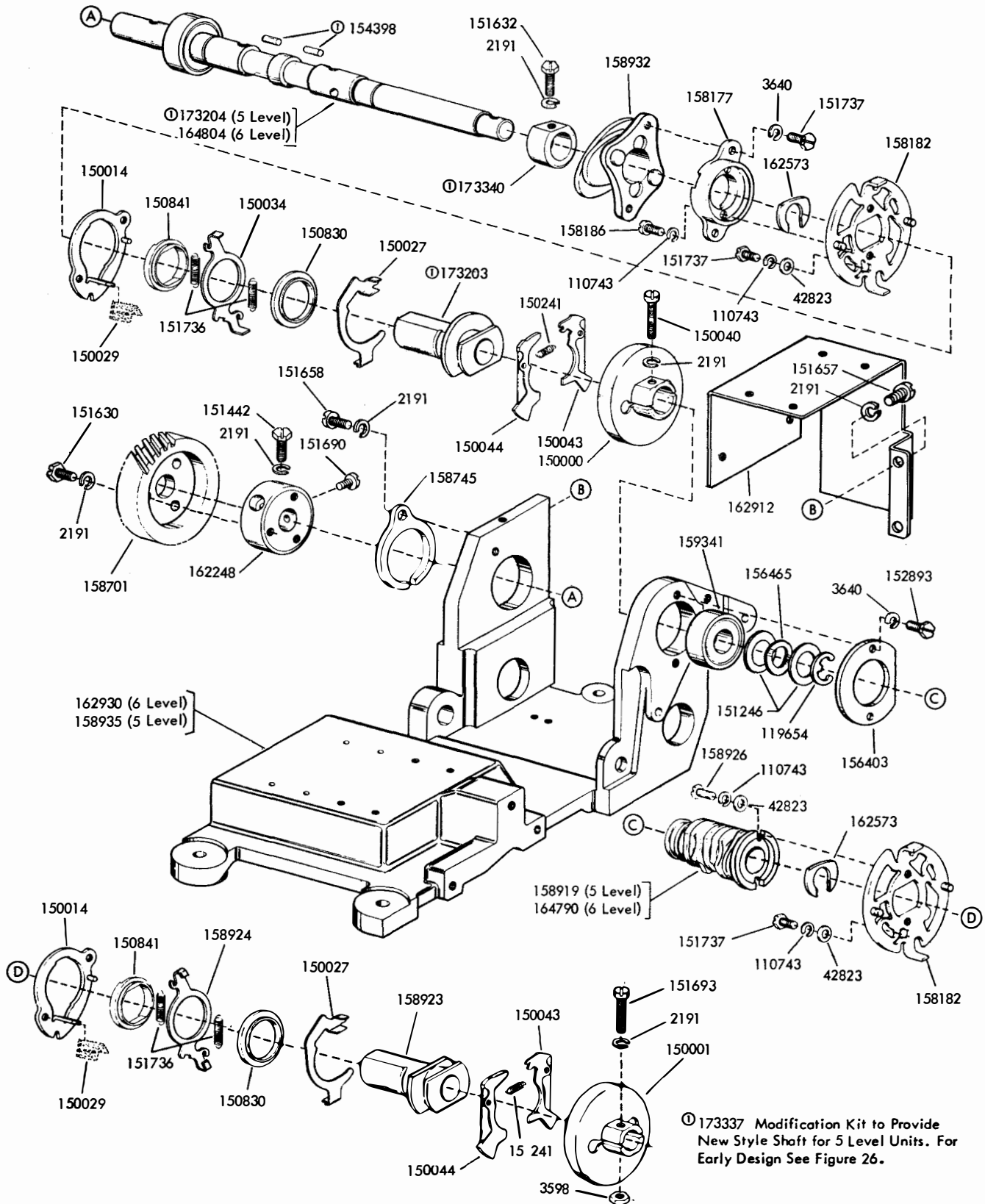


FIGURE 2. TWO CYCLE SELECTOR CLUTCH MECHANISM

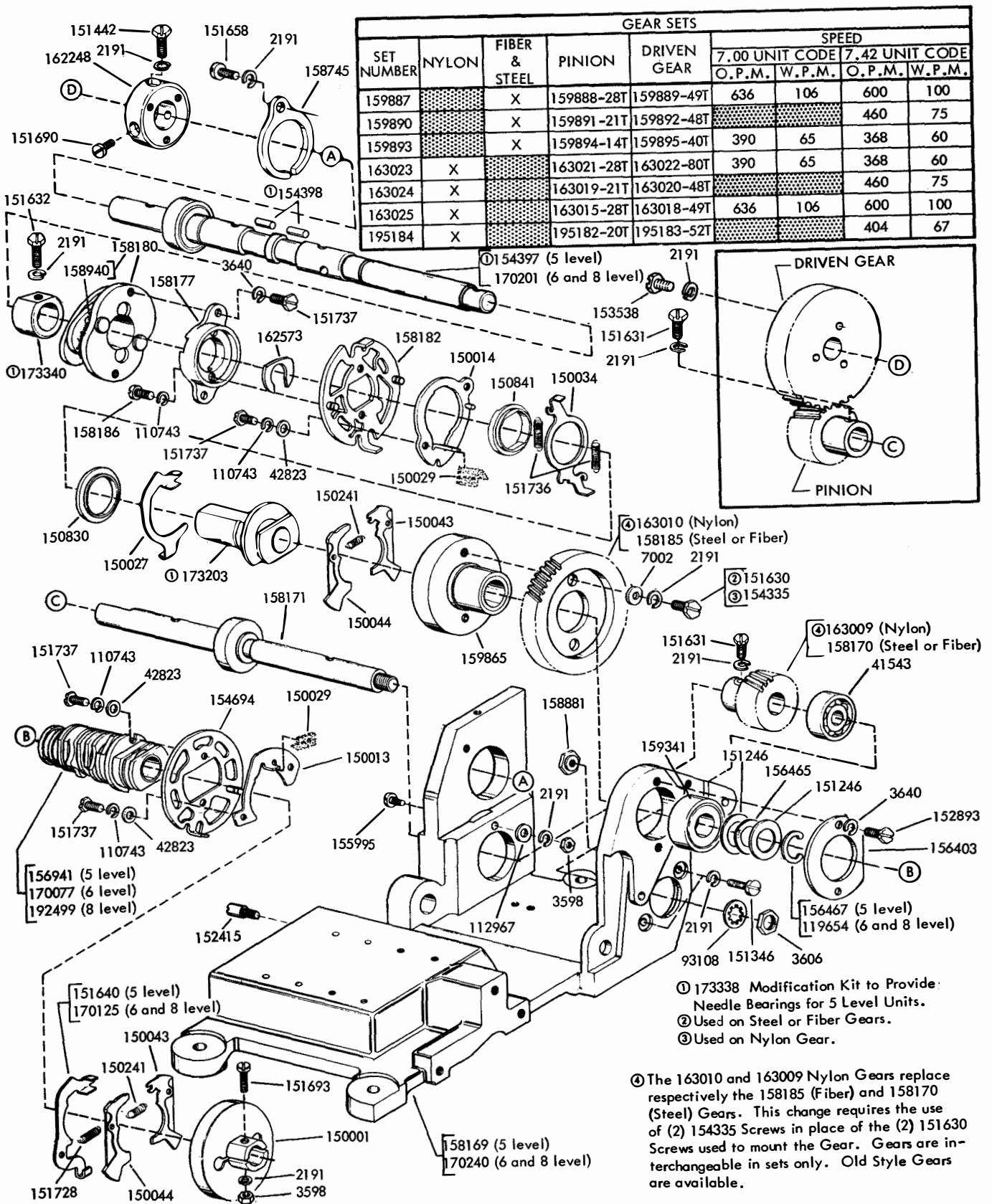


FIGURE 3. DOUBLE SHAFT MECHANISM

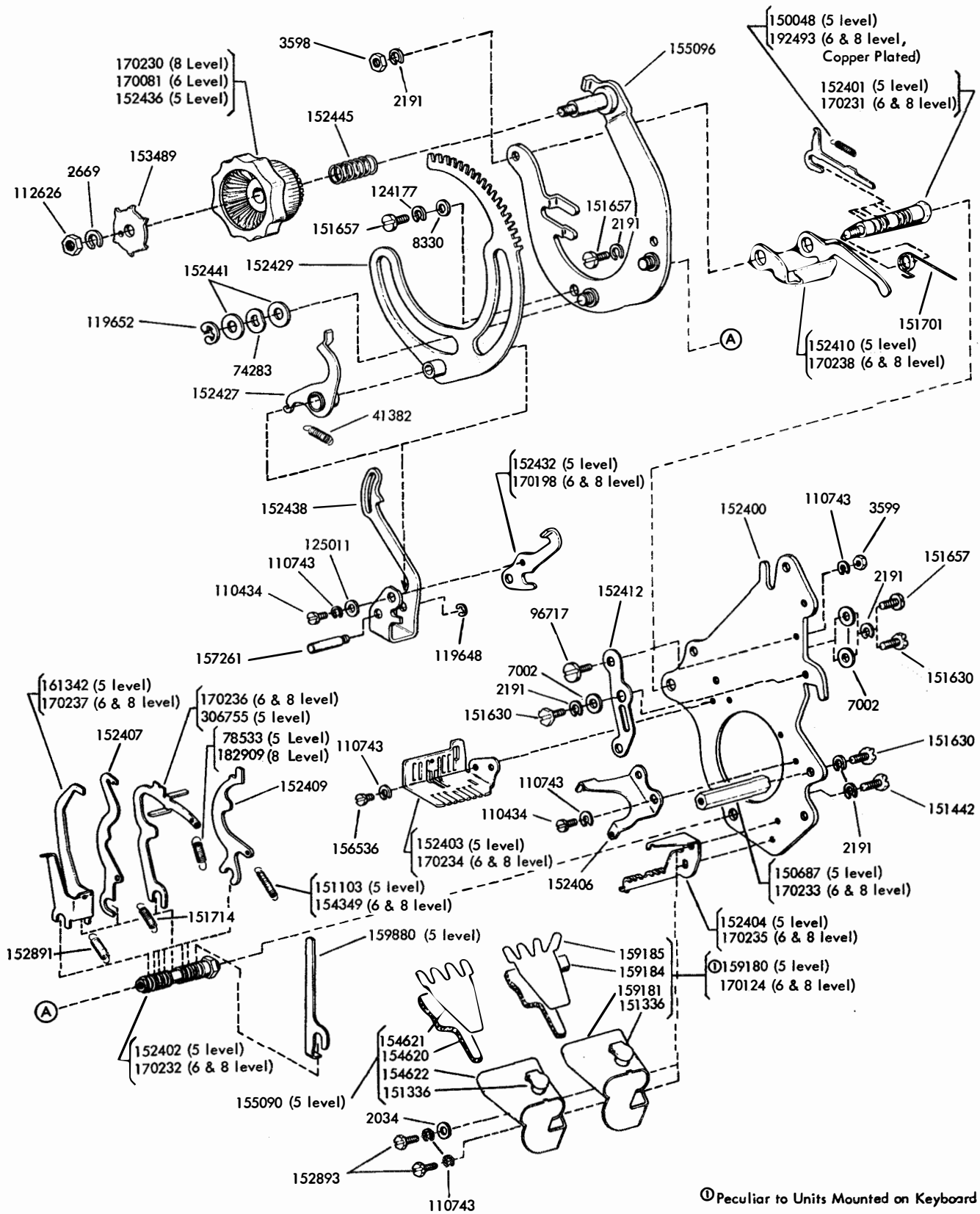


FIGURE 4. SINGLE CYCLE SELECTOR MECHANISM

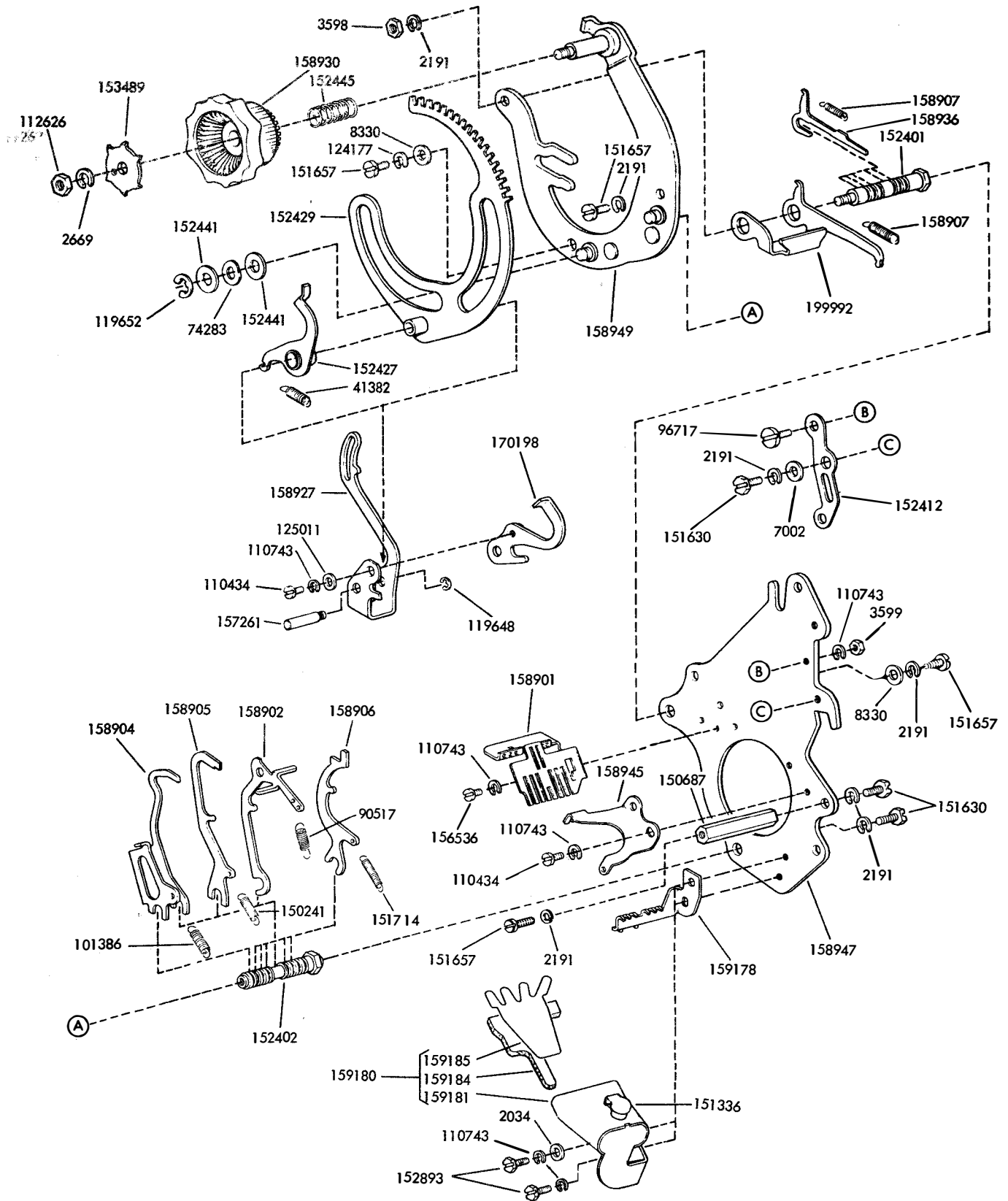
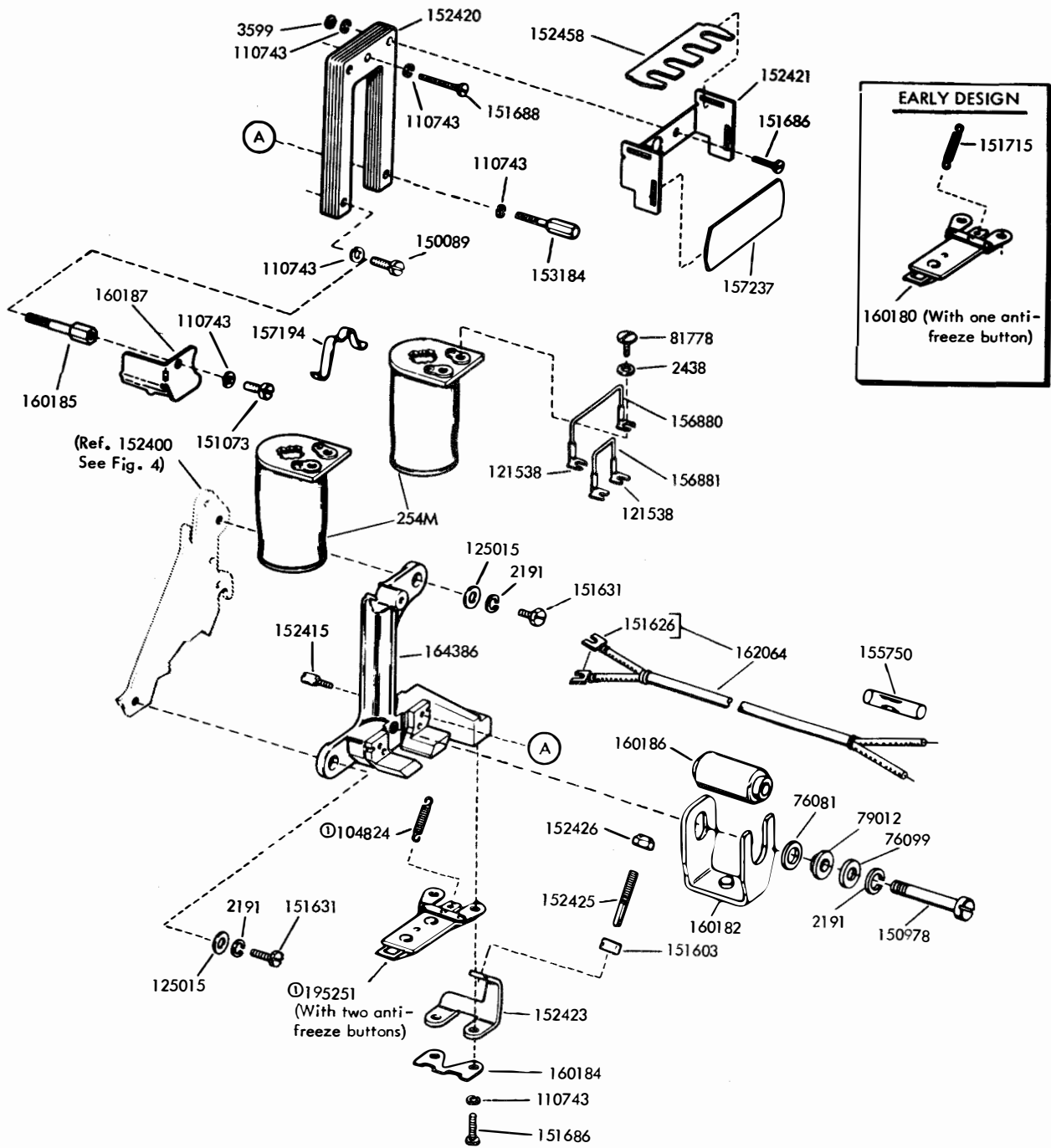


FIGURE 5. TWO CYCLE SELECTOR MECHANISM



ⓐ 195634 Modification Kit to provide quick release of the armature. (New and Early design parts are interchangeable in pairs only).

FIGURE 6. SELECTOR MAGNET MECHANISM

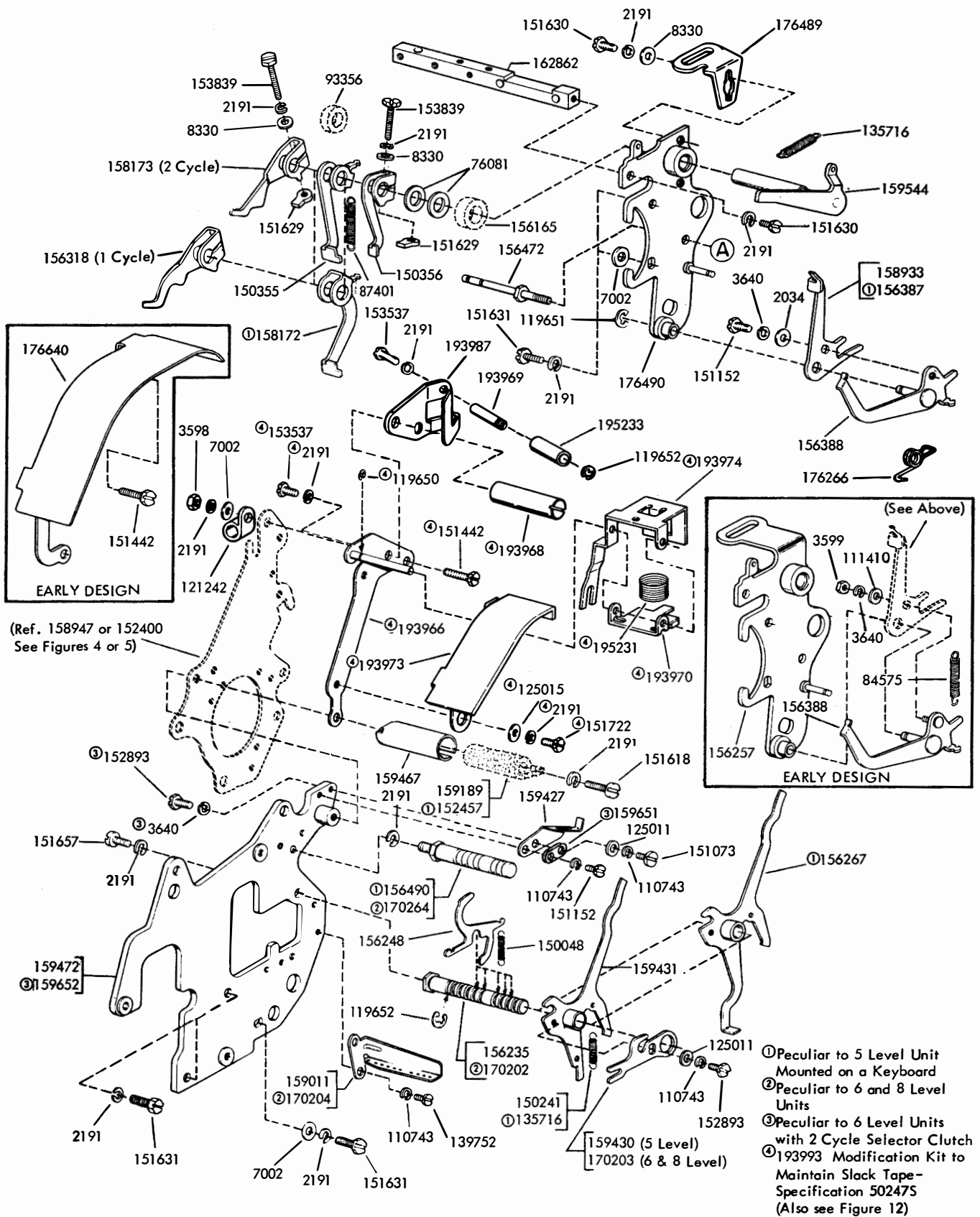


FIGURE 7. MAIN PLATE MECHANISM

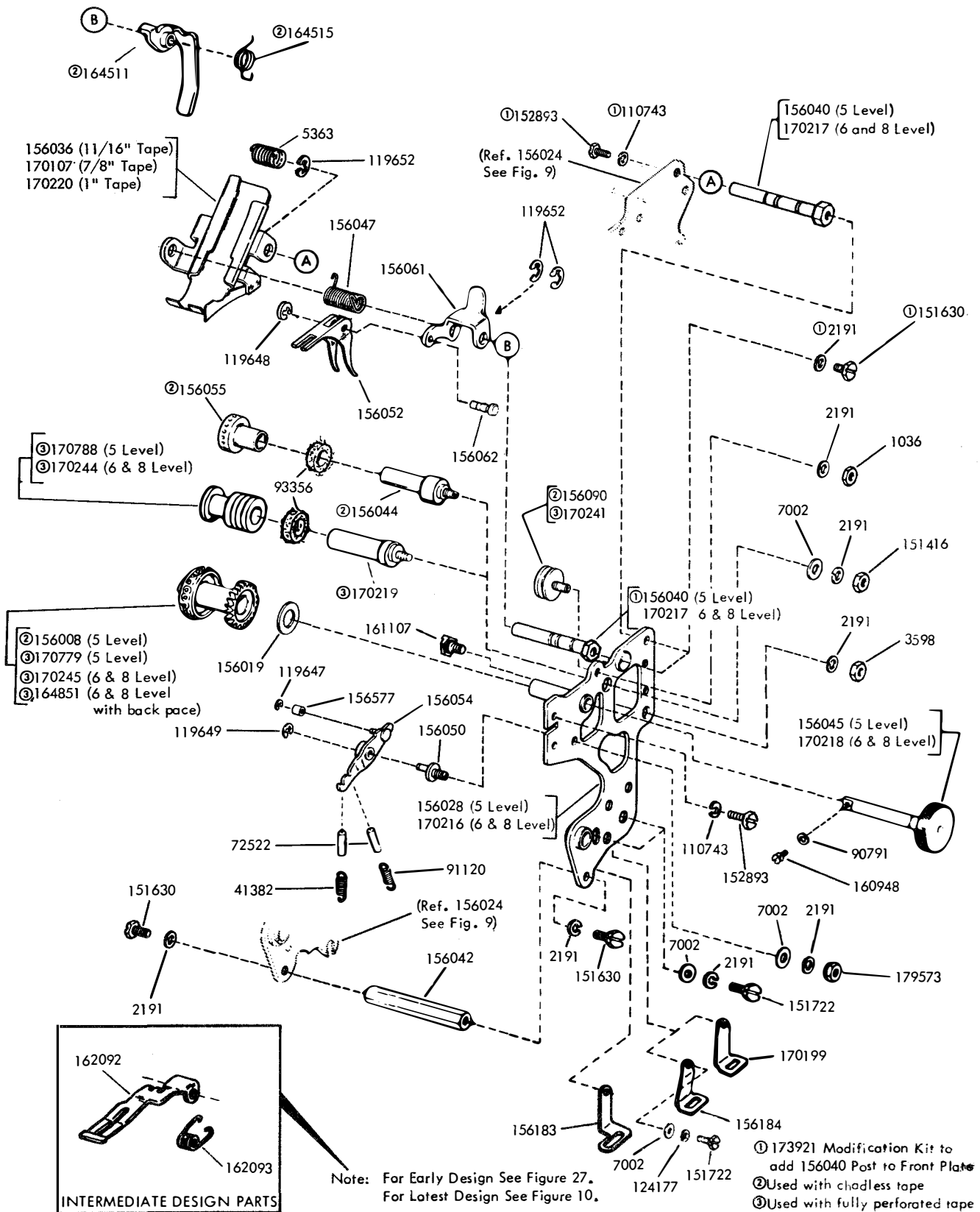
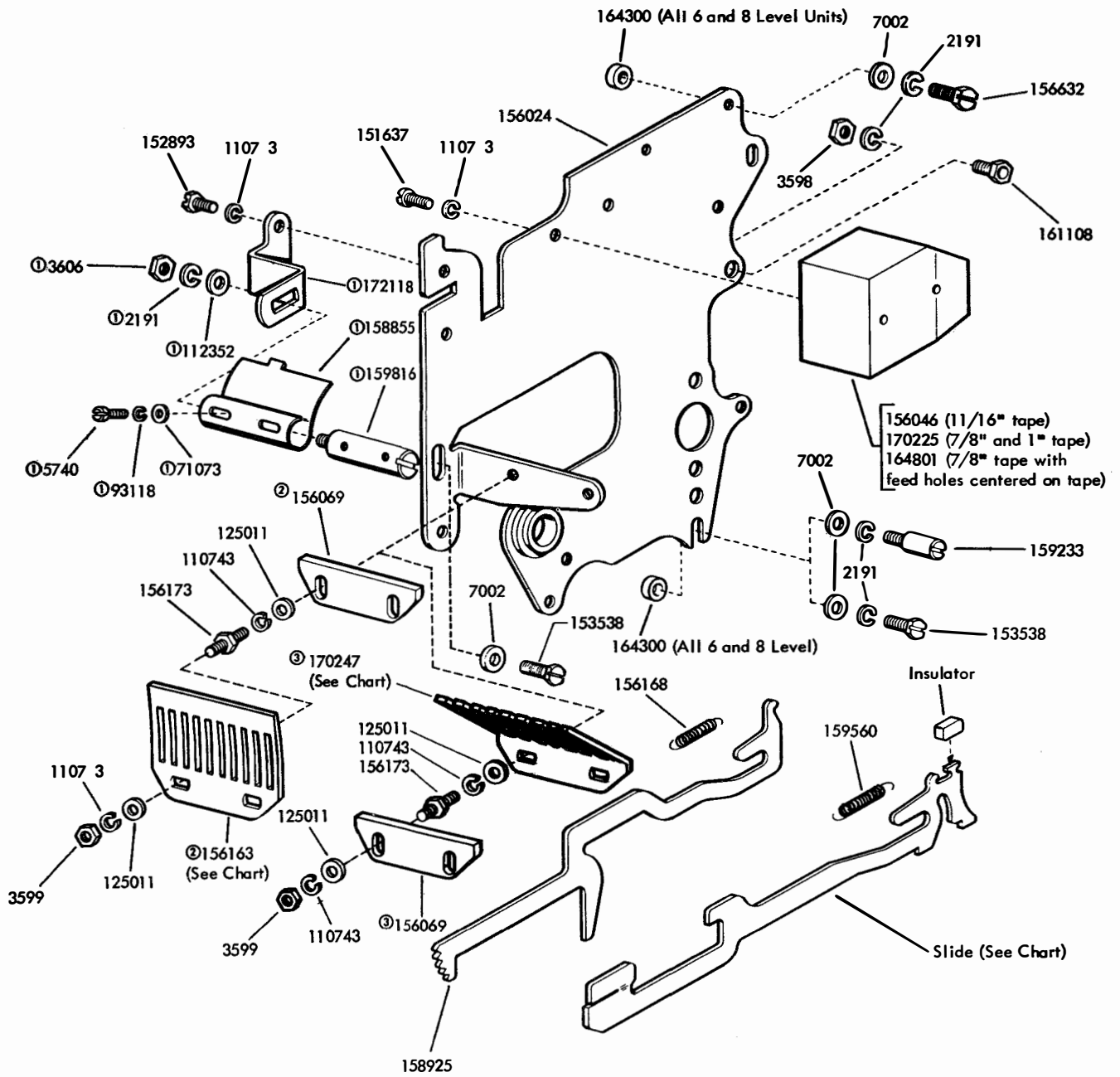


FIGURE 8. FRONT PUNCH PLATE MECHANISM



SLIDE CHART		
Slide Type	Spring retracted Punch Pins	Power retracted Punch Pins
Code Hole Slide	156089 w/insulator 156020 w/o insulator	170246
Feed Hole Slide	170879	170242
Slide Guide	156163	170247

- ① 172112 Tape Depressor Assembly
- ② Used with Spring Retracted Pins
- ③ Used with Power Retracted Pins

FIGURE 9. REAR PUNCH PLATE MECHANISM

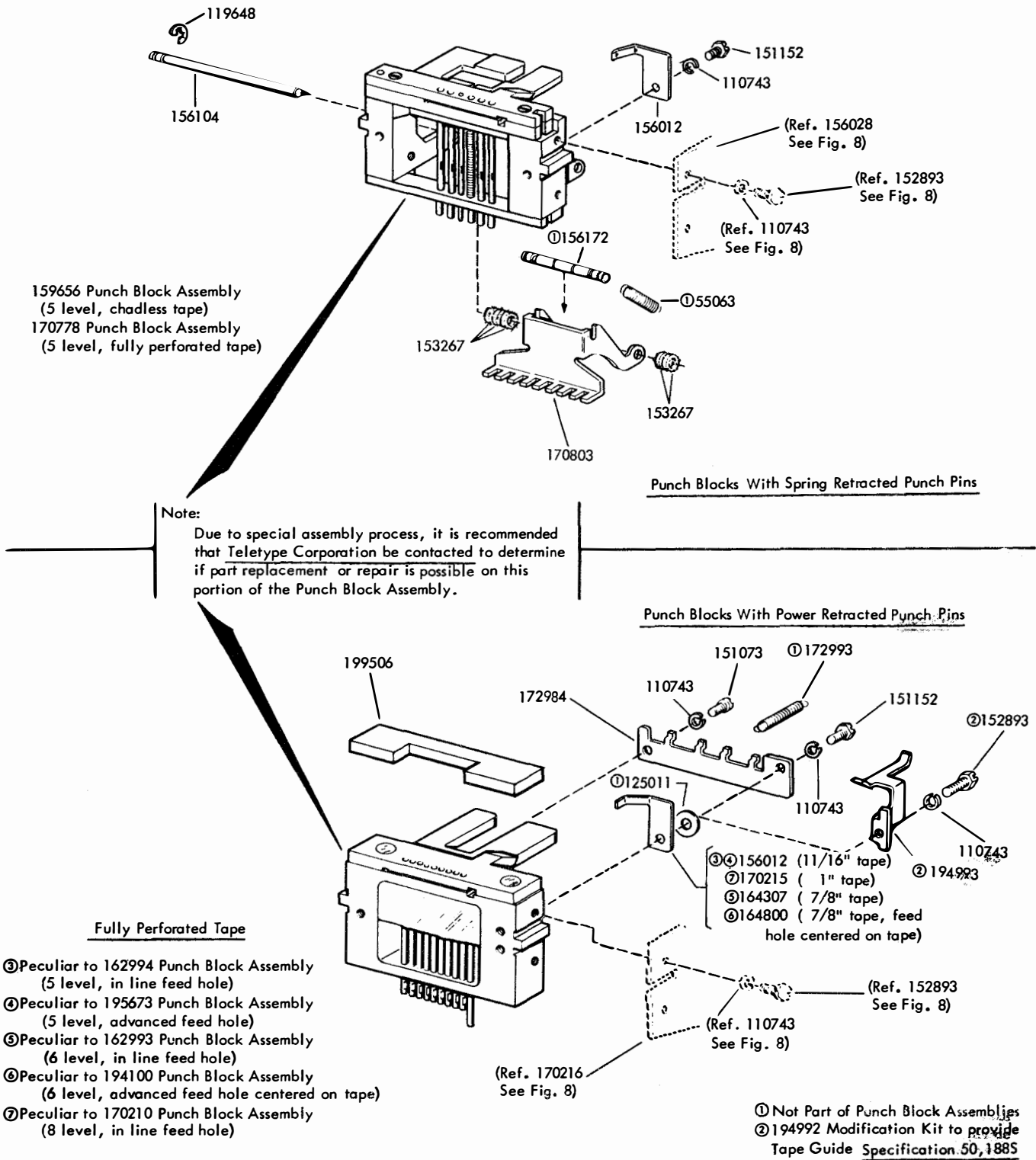


FIGURE 10. PUNCH BLOCK ASSEMBLIES

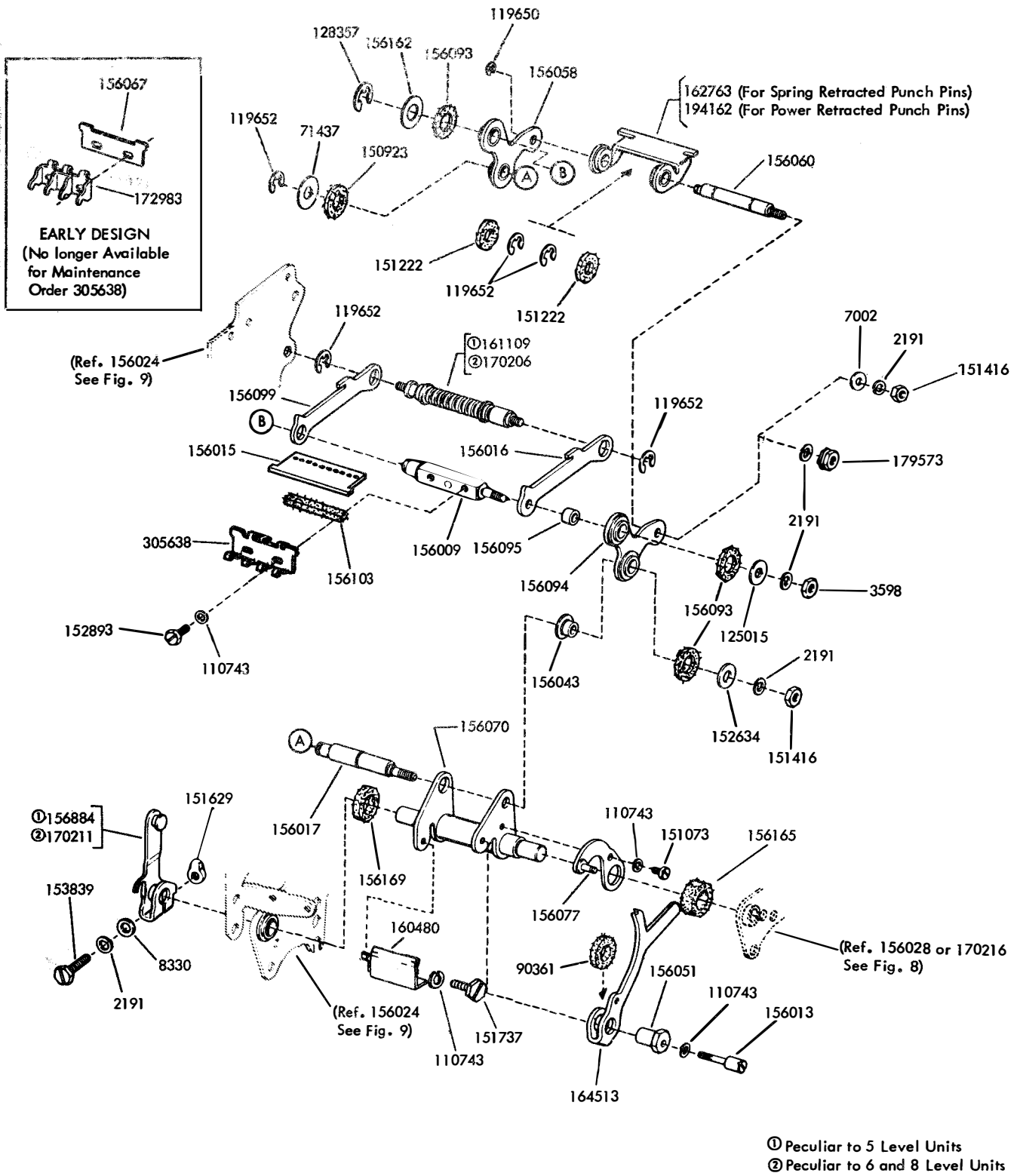


FIGURE 11. PUNCH BAIL MECHANISM

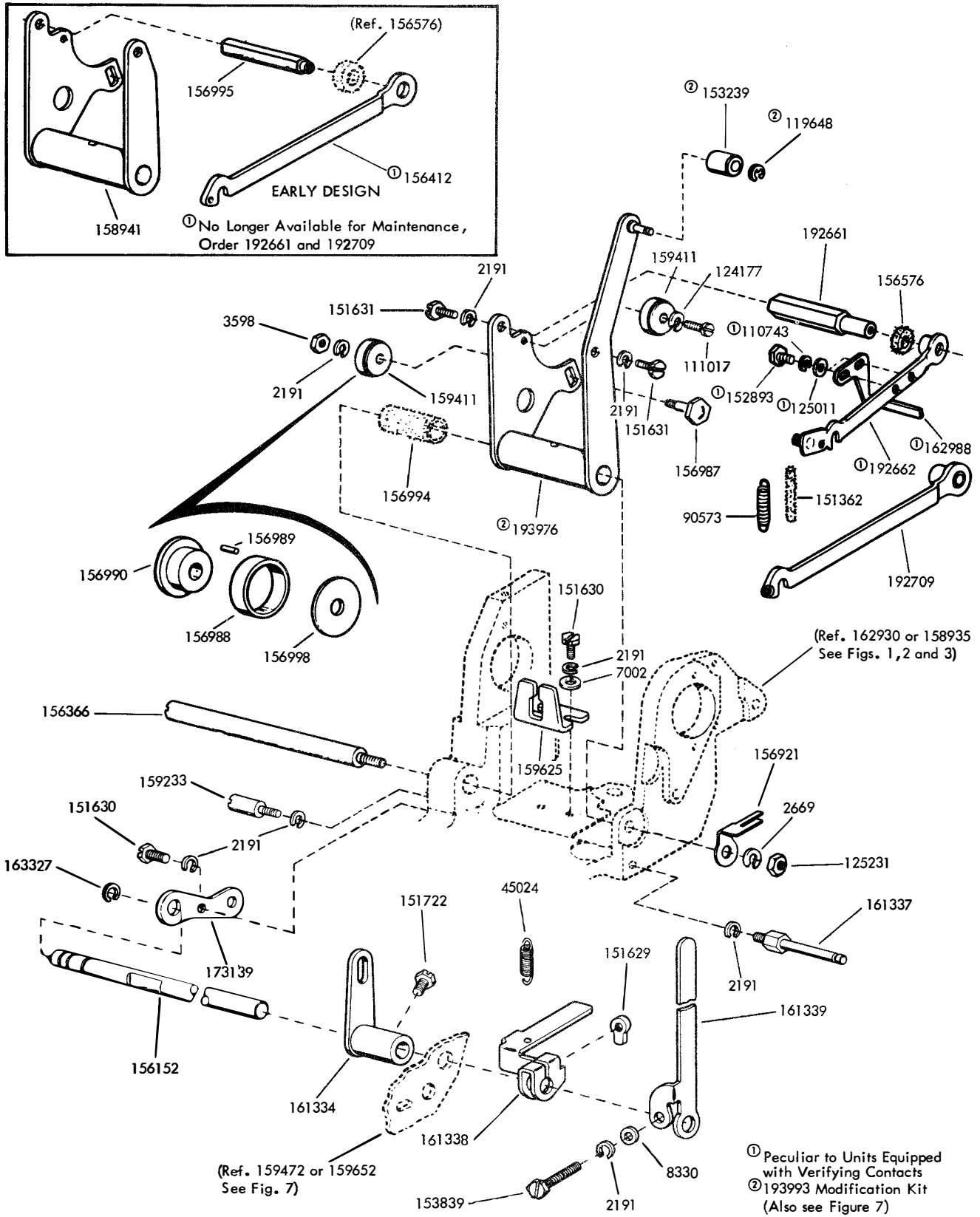
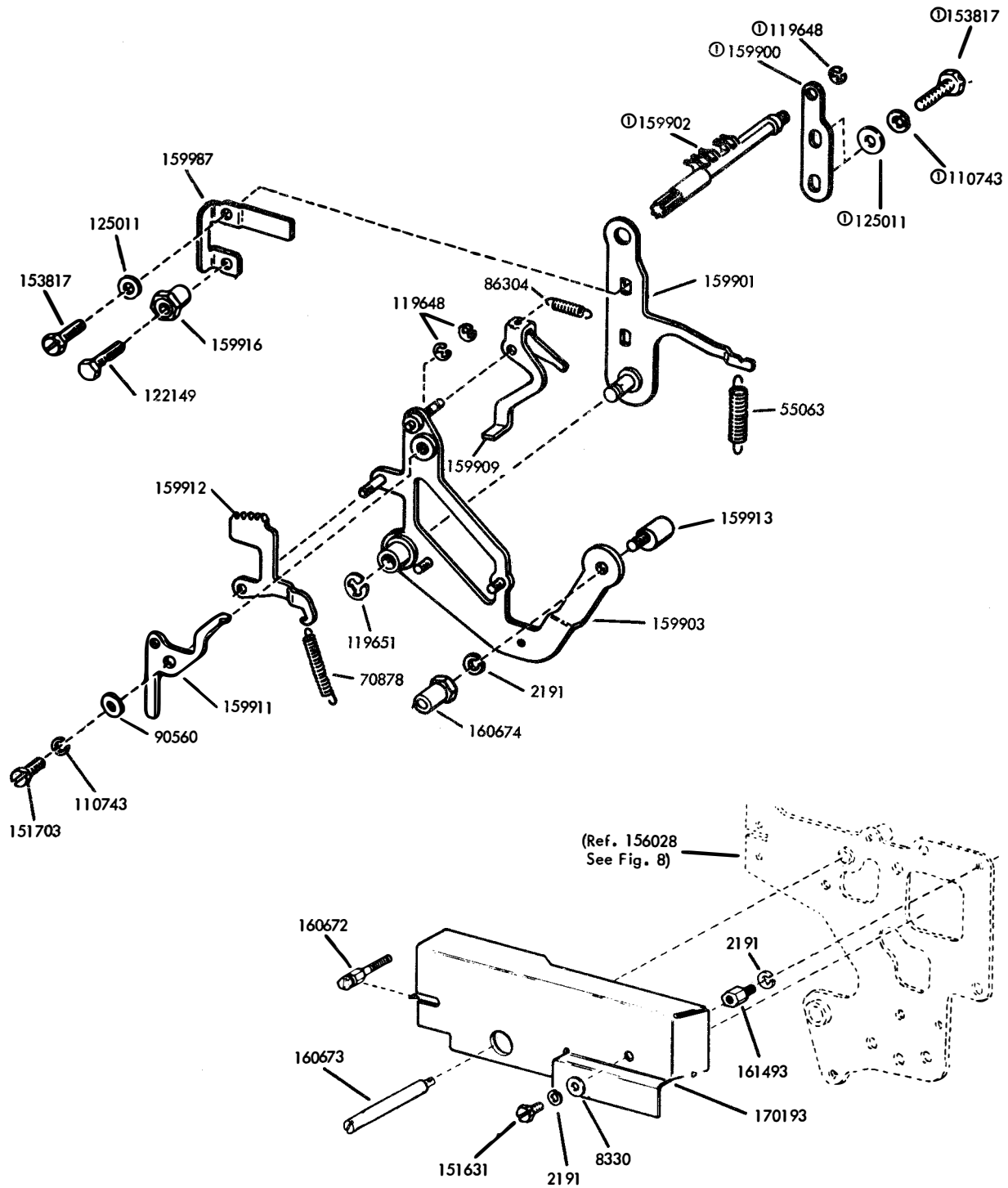


FIGURE 12. ROCKER BAIL MECHANISM



⓪ Peculiar to Units Producing Chadless Tape

FIGURE 13. MANUAL BACKSPACE MECHANISM

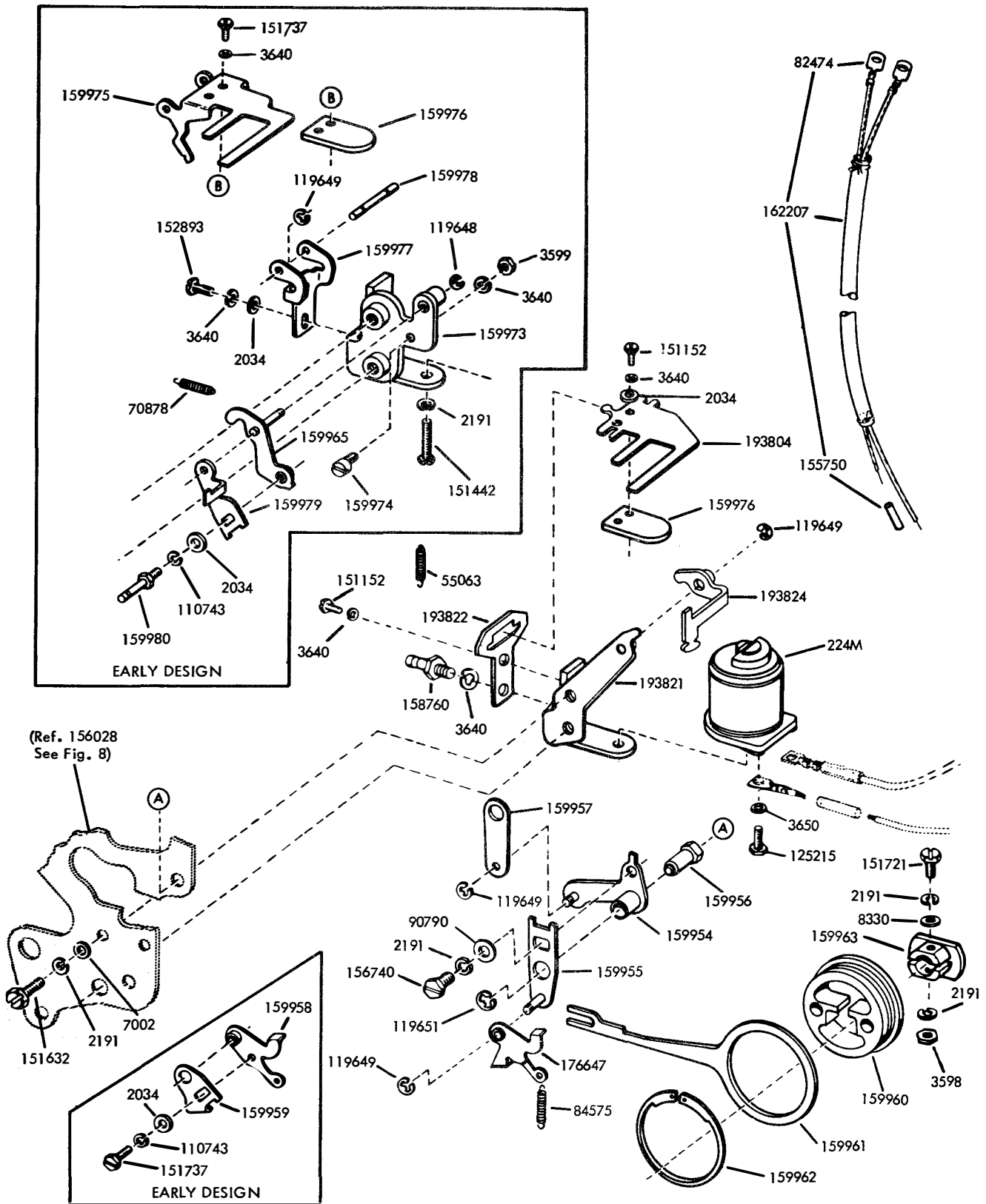


FIGURE 14. POWER-DRIVE BACKSPACE MECHANISM

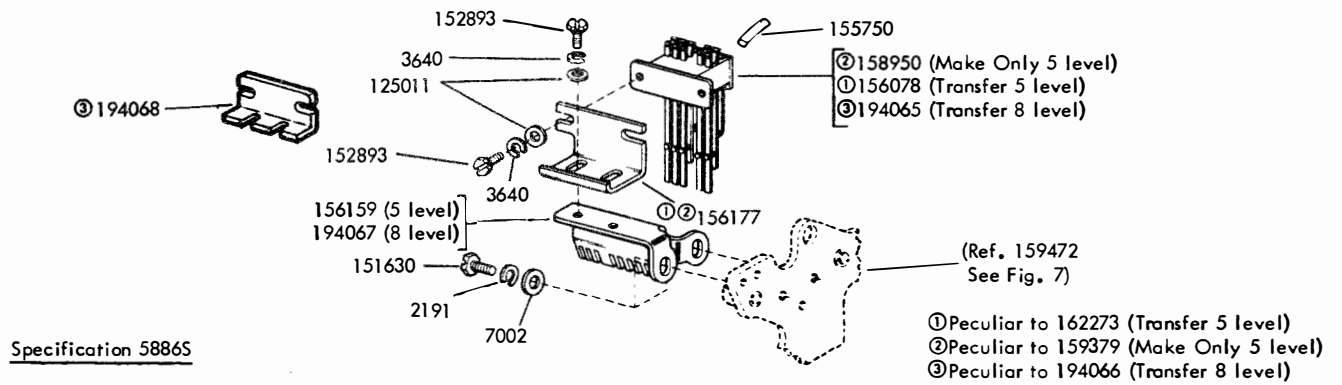


FIGURE 15. 159379 (MAKE ONLY 5 LEVEL), 162273 (TRANSFER 5 LEVEL) and 194066 (TRANSFER 8 LEVEL) MODIFICATION KITS TO PROVIDE CODE READING CONTACTS

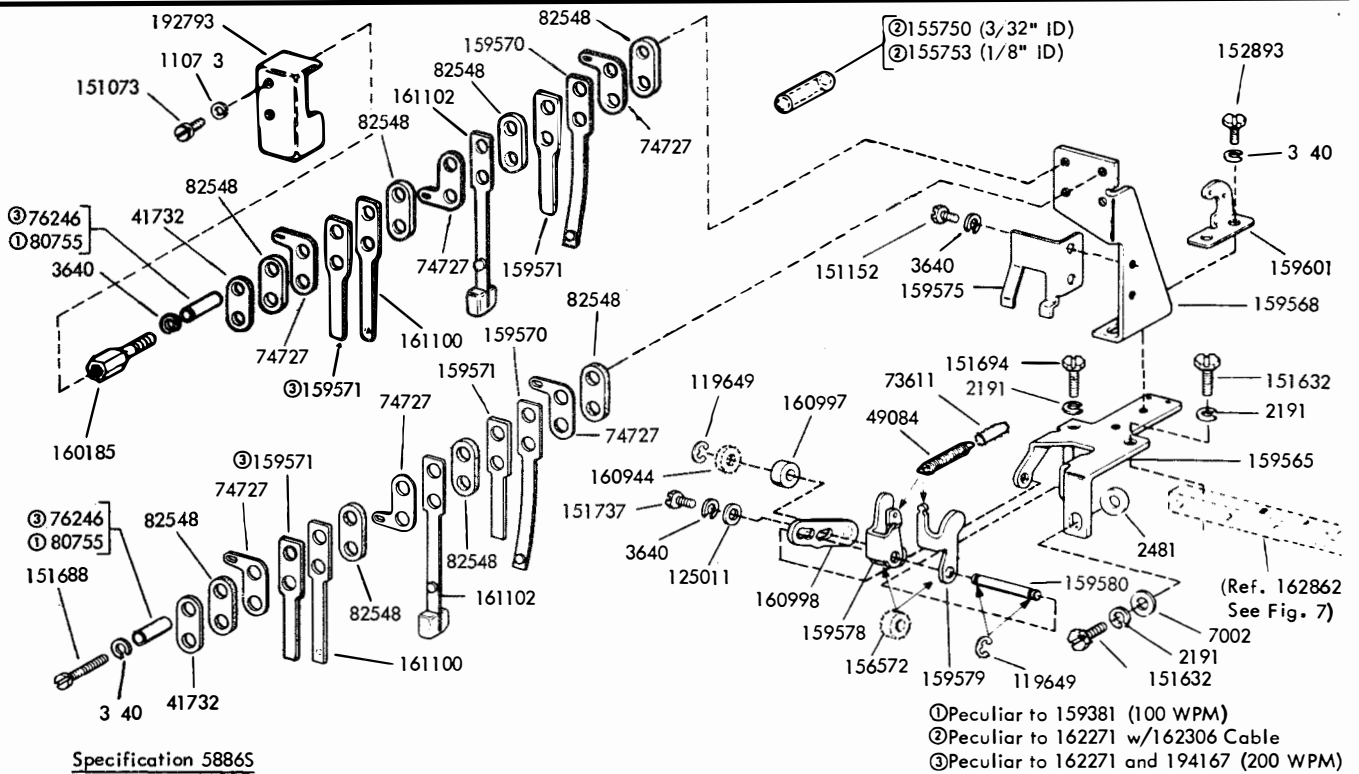


FIGURE 16. 159381, 162271 AND 194167 MODIFICATION KITS TO PROVIDE AUXILIARY TIMING CONTACTS

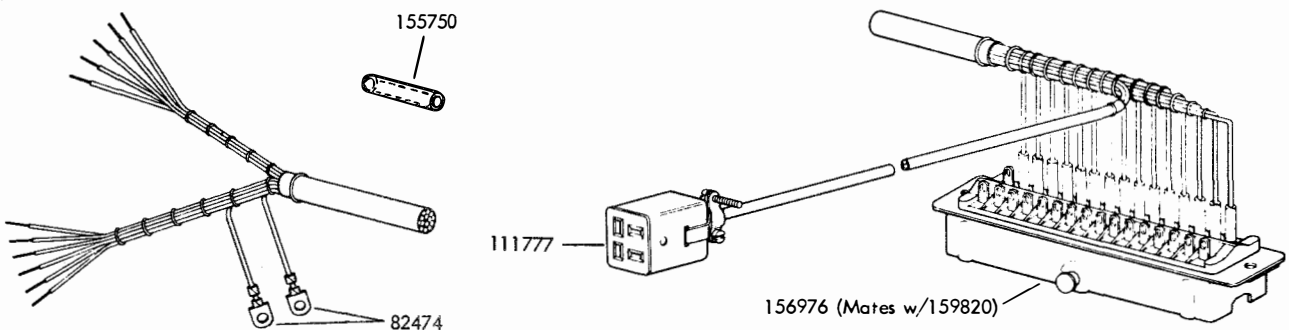
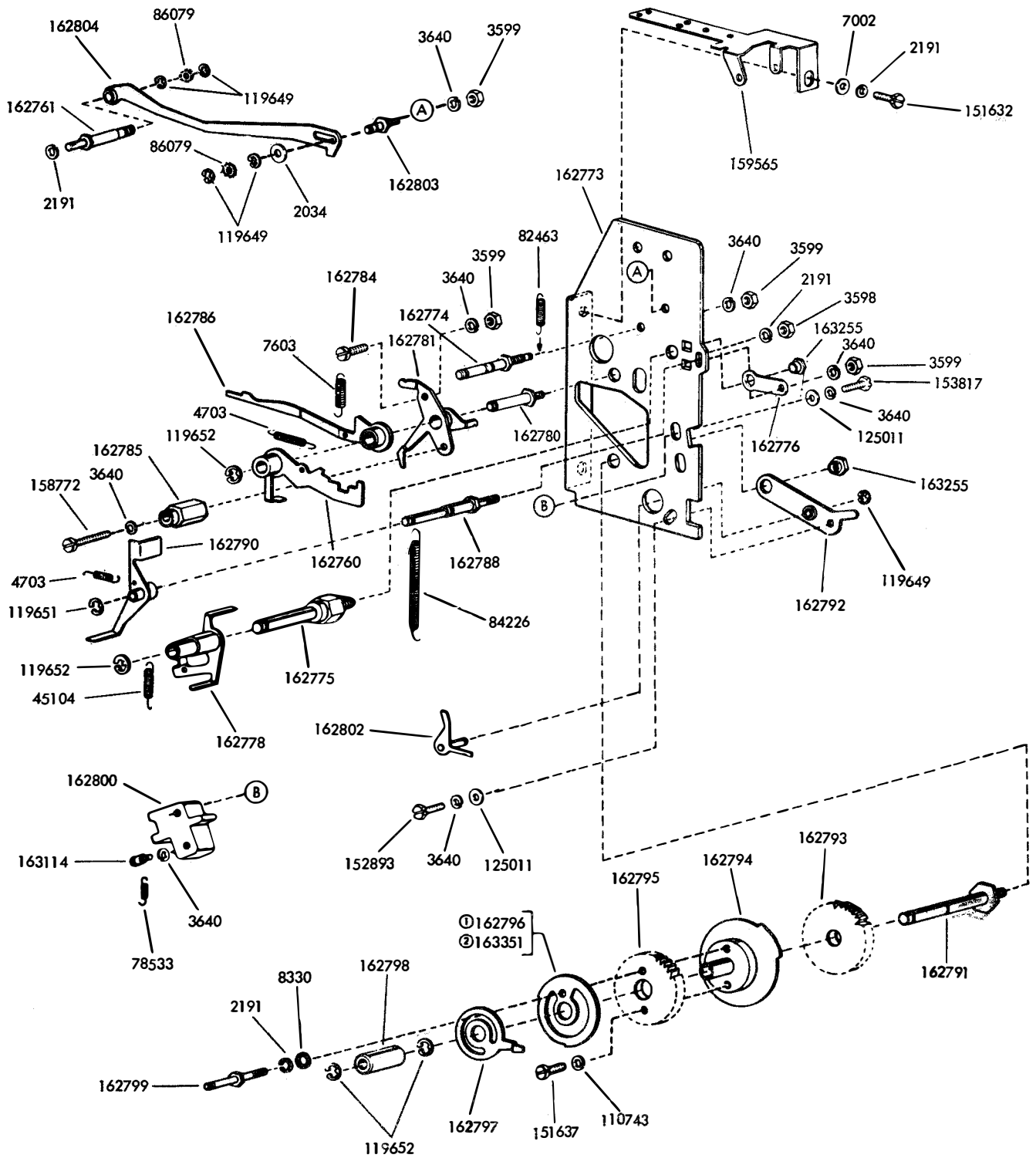


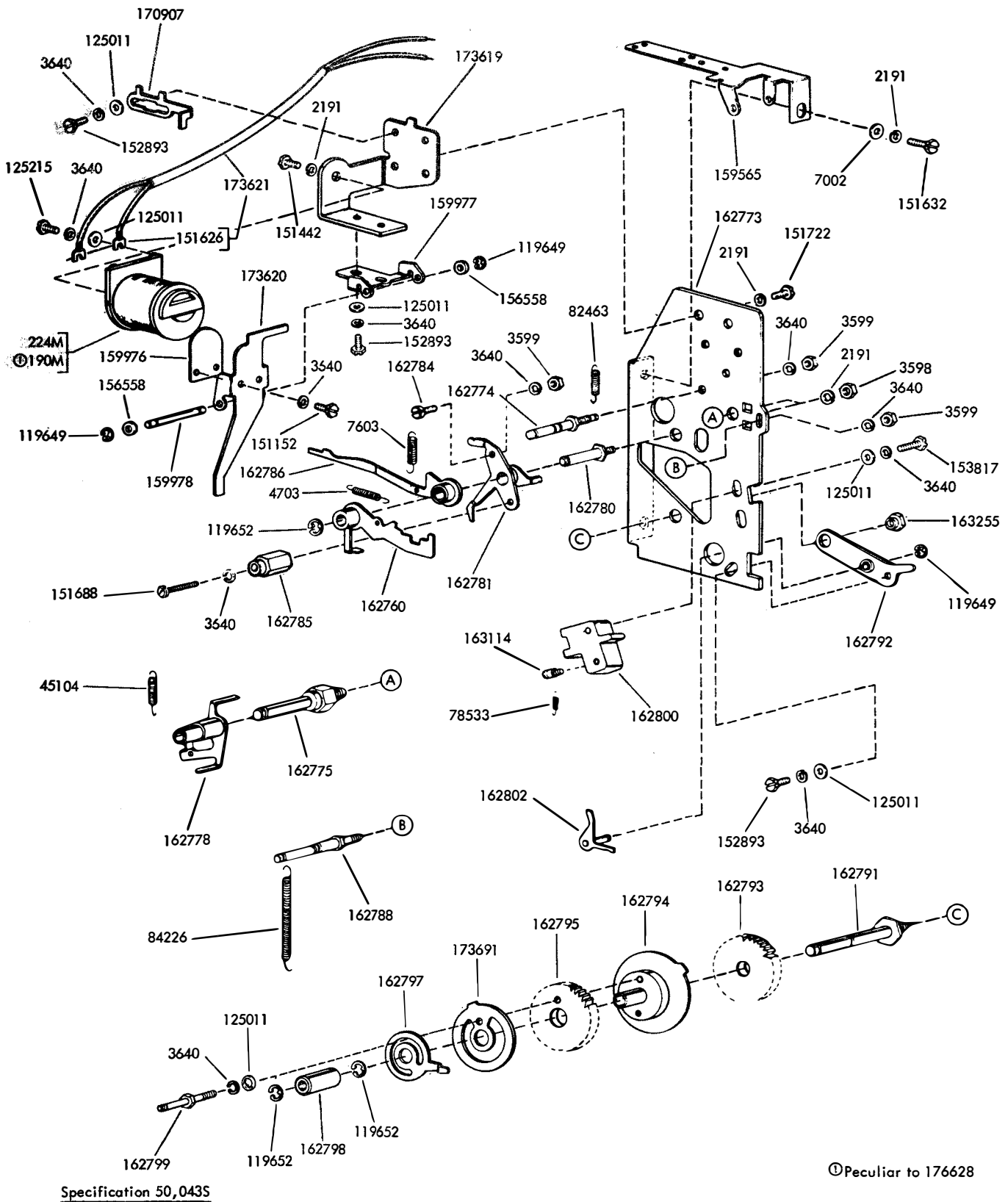
FIGURE 17. 158946 REPERFORATOR TRANSMITTER UNIT CABLE ASSEMBLY



Specification 50,059S and 50,043S

① Peculiar to 162379 (4 Second Time Delay at 100 WPM)
 ② Peculiar to 163347 (16 Second Time Delay at 100 WPM)

FIGURE 18. 162379 AND 163347 MODIFICATION KITS TO ADD AUTOMATIC NON-INTERFERING LETTERS TAPE FEED OUT



Specification 50,043S

ⓐ Peculiar to 176628

FIGURE 19. 162380 (BLANK), 173443 (LETTERS) AND 176628 (LETTERS) MODIFICATION KITS TO ADD REMOTE CONTROL NON-INTERFERING TAPE FEED OUT

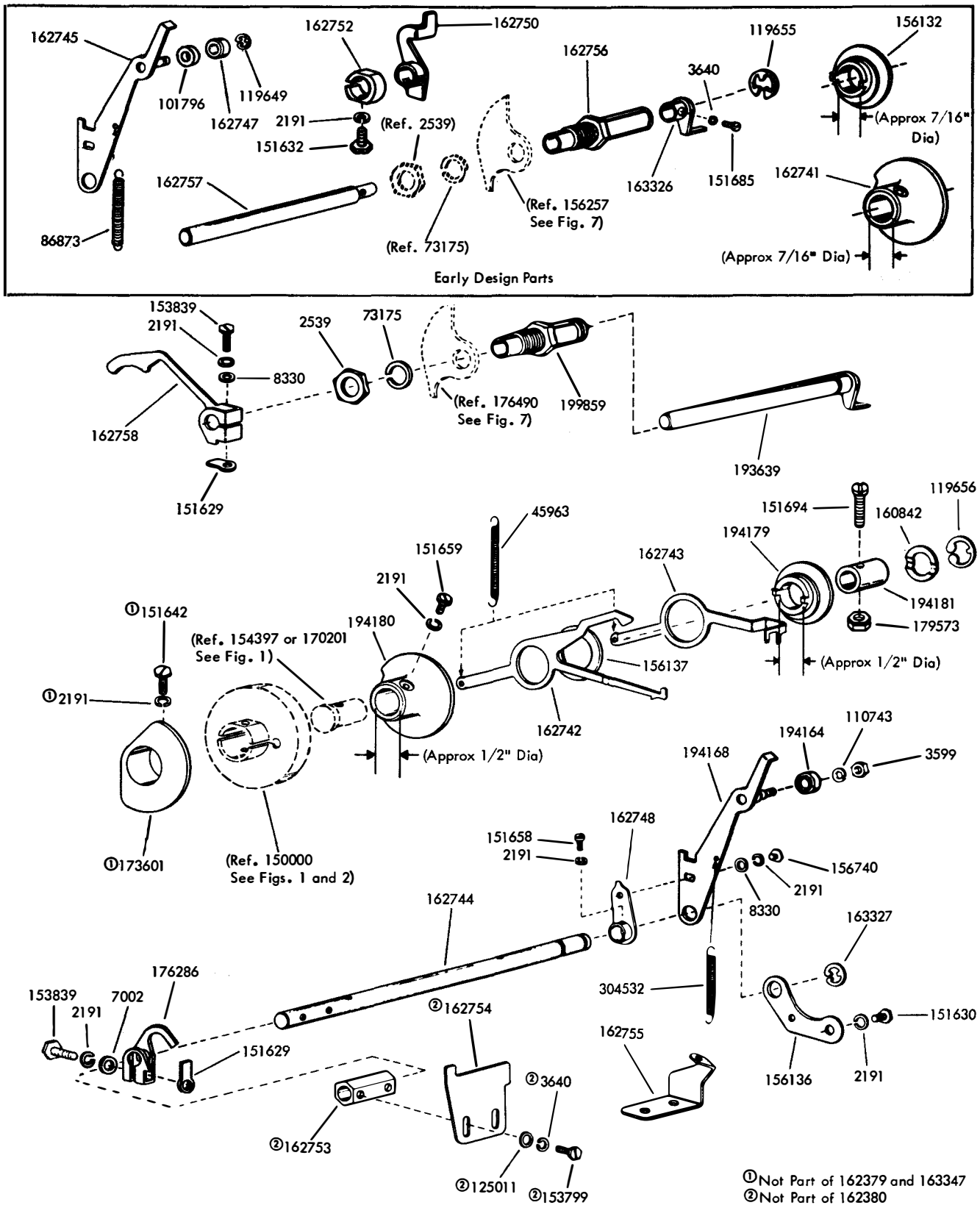
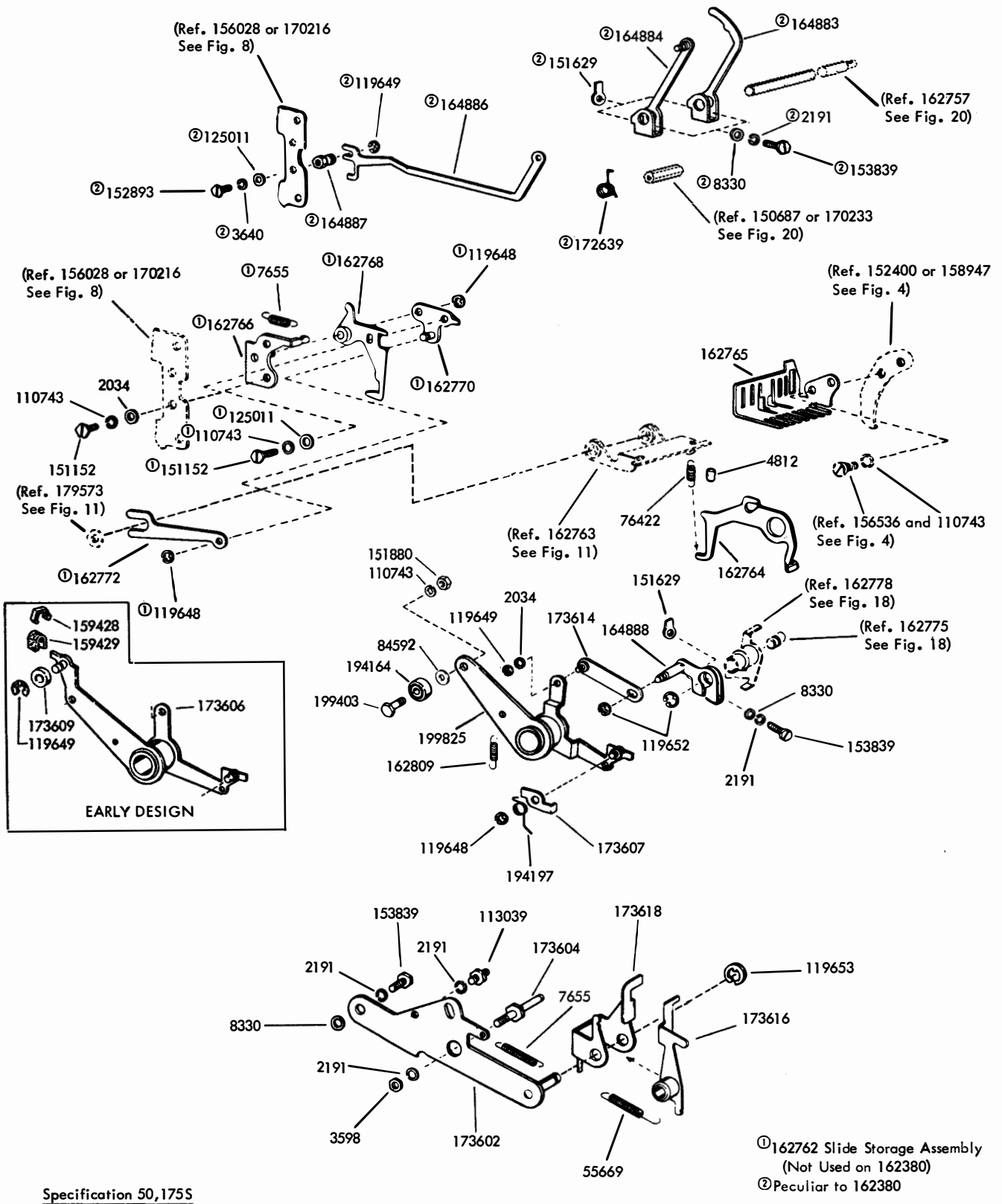
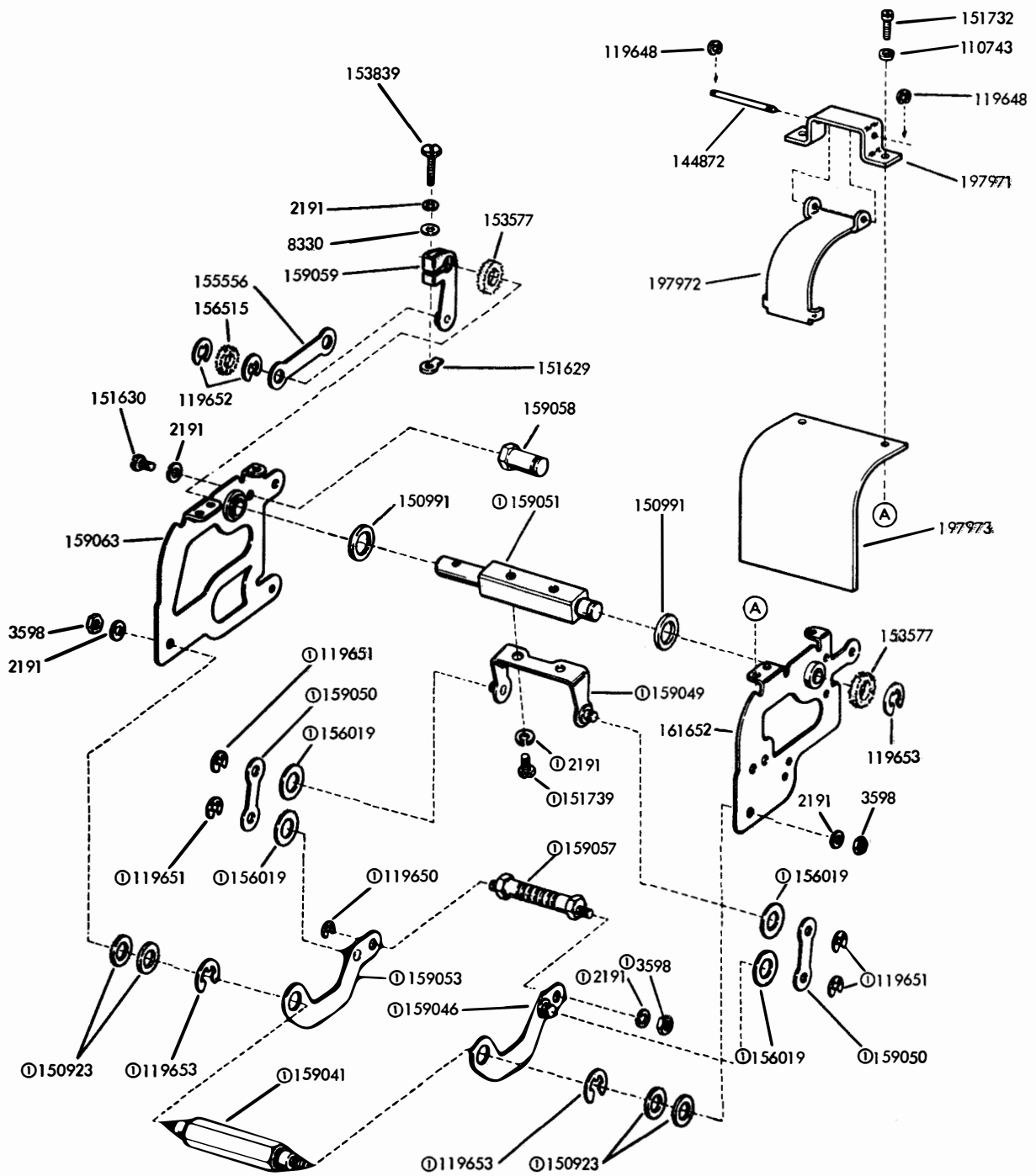


FIGURE 20. 162379, 163347 (AUTOMATIC LETTERS) AND 162380, 173443 AND 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED OUT



Specification 50,175S

FIGURE 21. 162379,163347 (AUTOMATIC),162380 (BLANK),173443 AND 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED OUT



Ⓞ159072 Toggle Assembly

FIGURE 22. VERIFIER CONTACT MECHANISM TO VERIFY SIX CHARACTERS AFTER PERFORATION

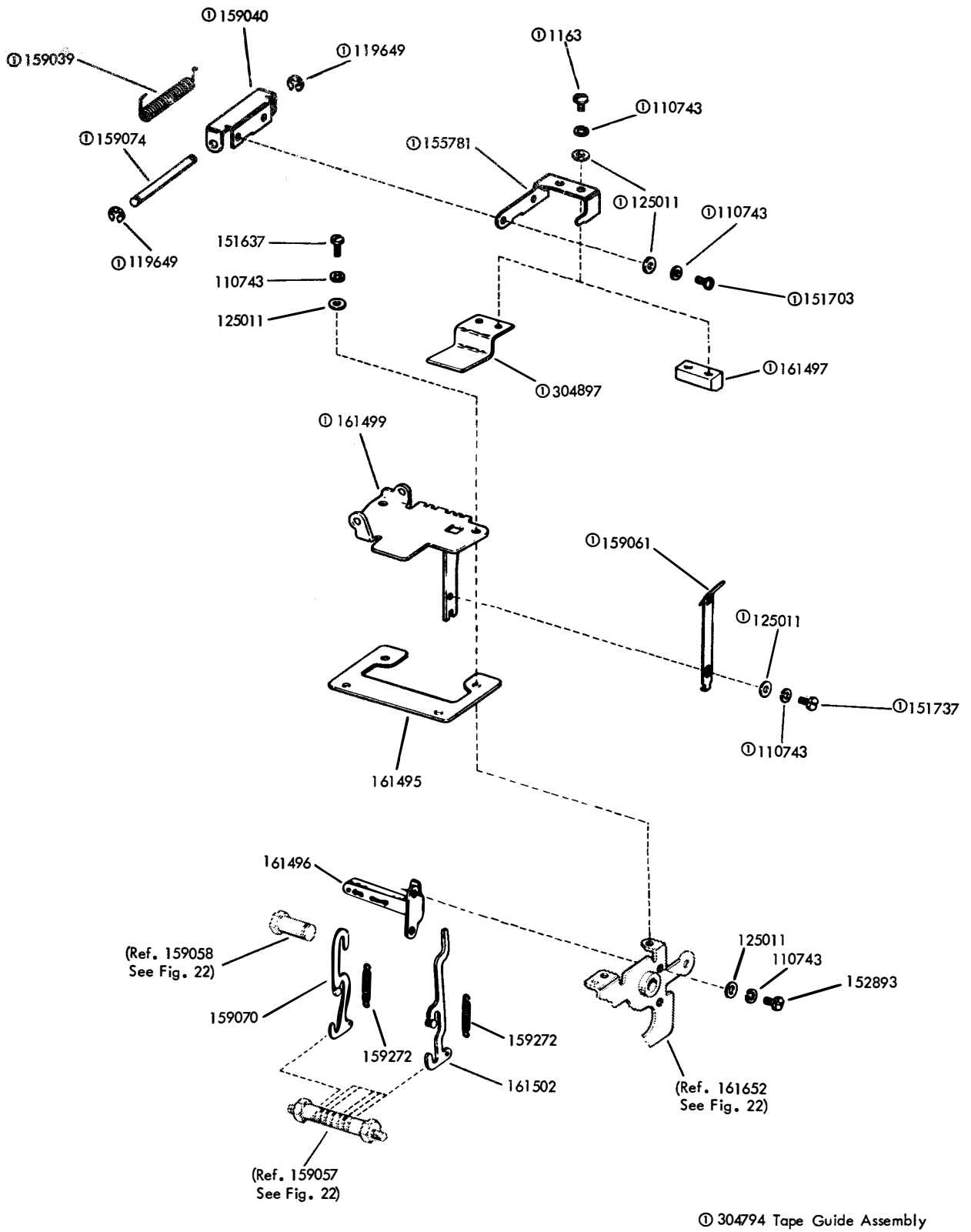


FIGURE 23. VERIFIER CONTACT MECHANISM TO VERIFY SIX CHARACTERS AFTER PERFORATION (continued)

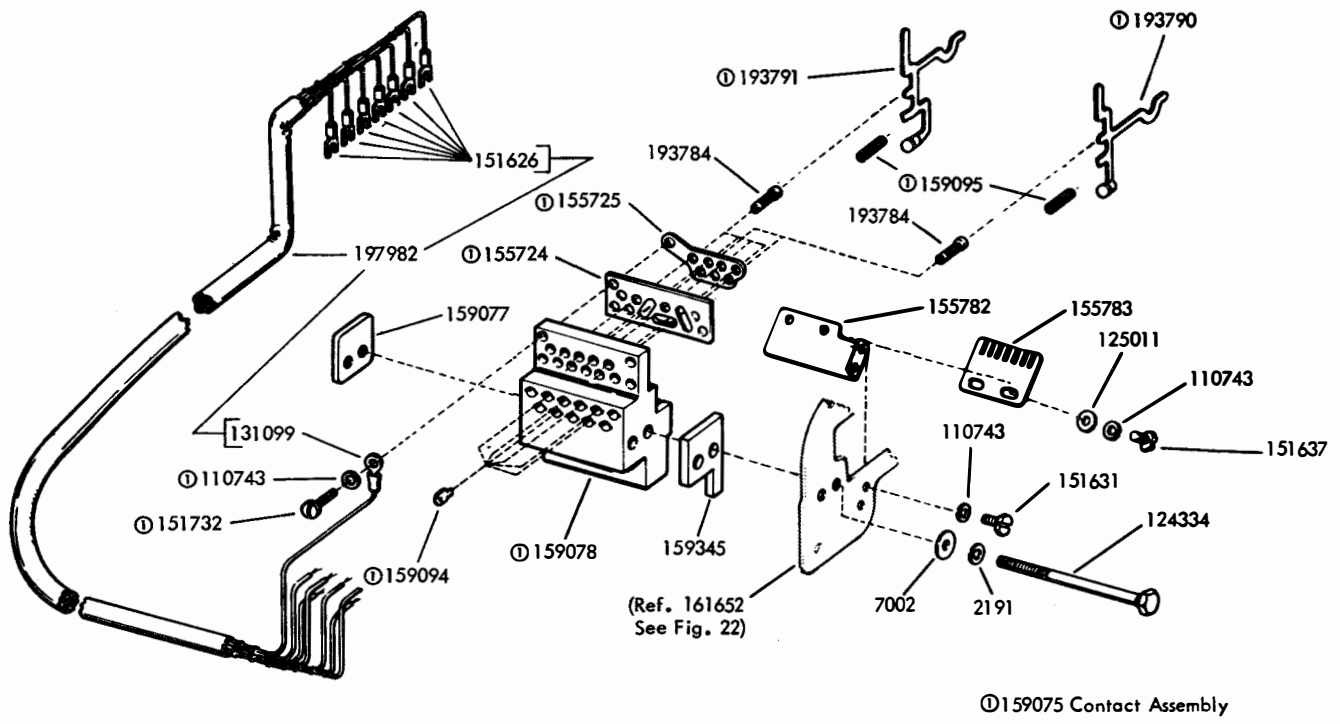


FIGURE 24. VERIFIER CONTACT BLOCK MECHANISM

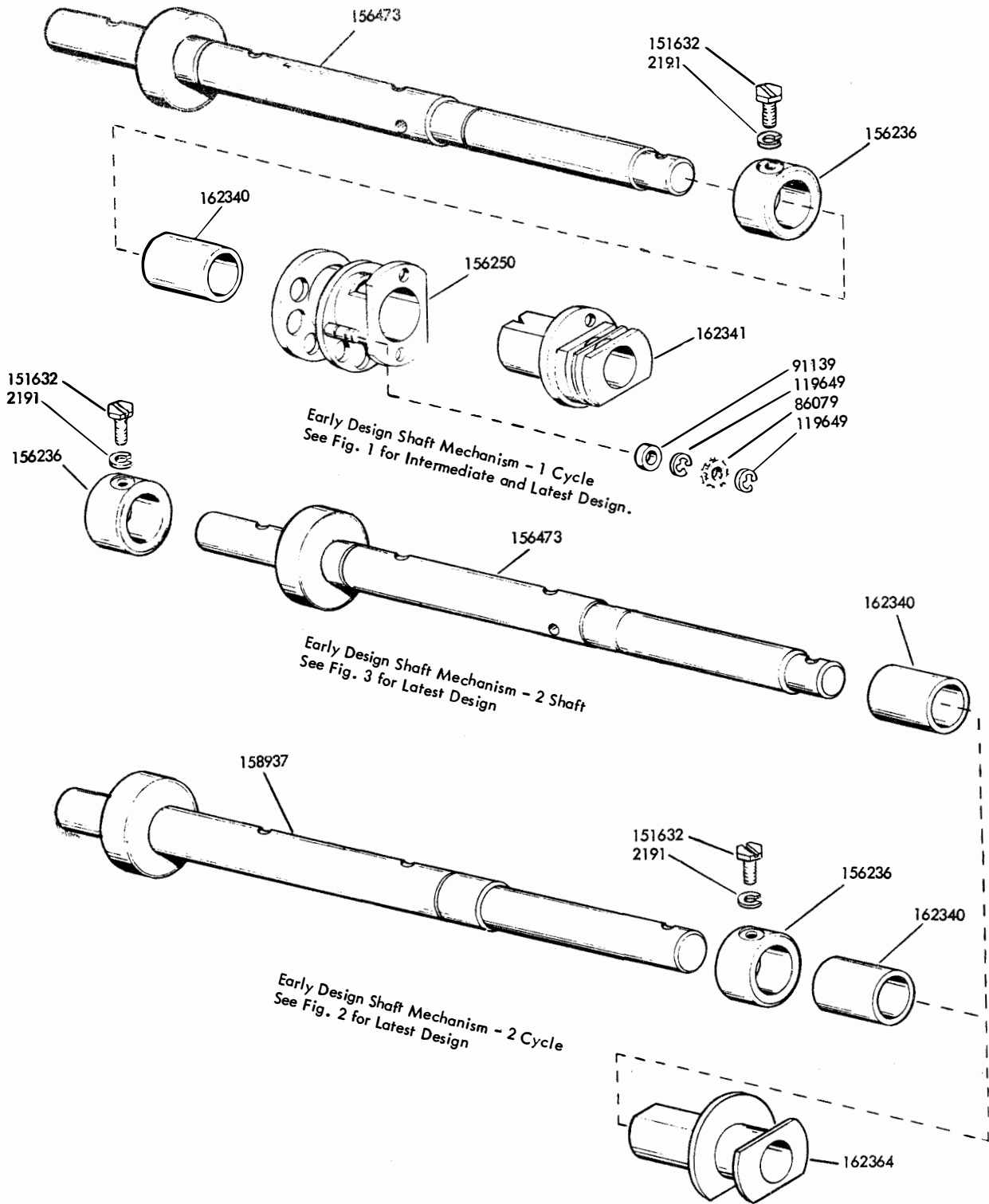


FIGURE 25. EARLY DESIGN SHAFT MECHANISM FOR 5 LEVEL UNITS

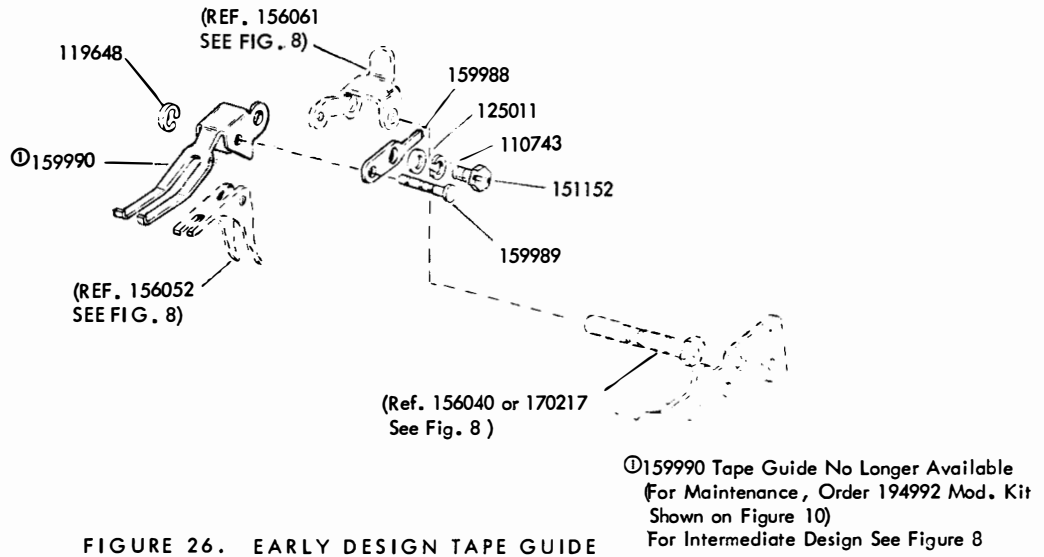


FIGURE 26. EARLY DESIGN TAPE GUIDE

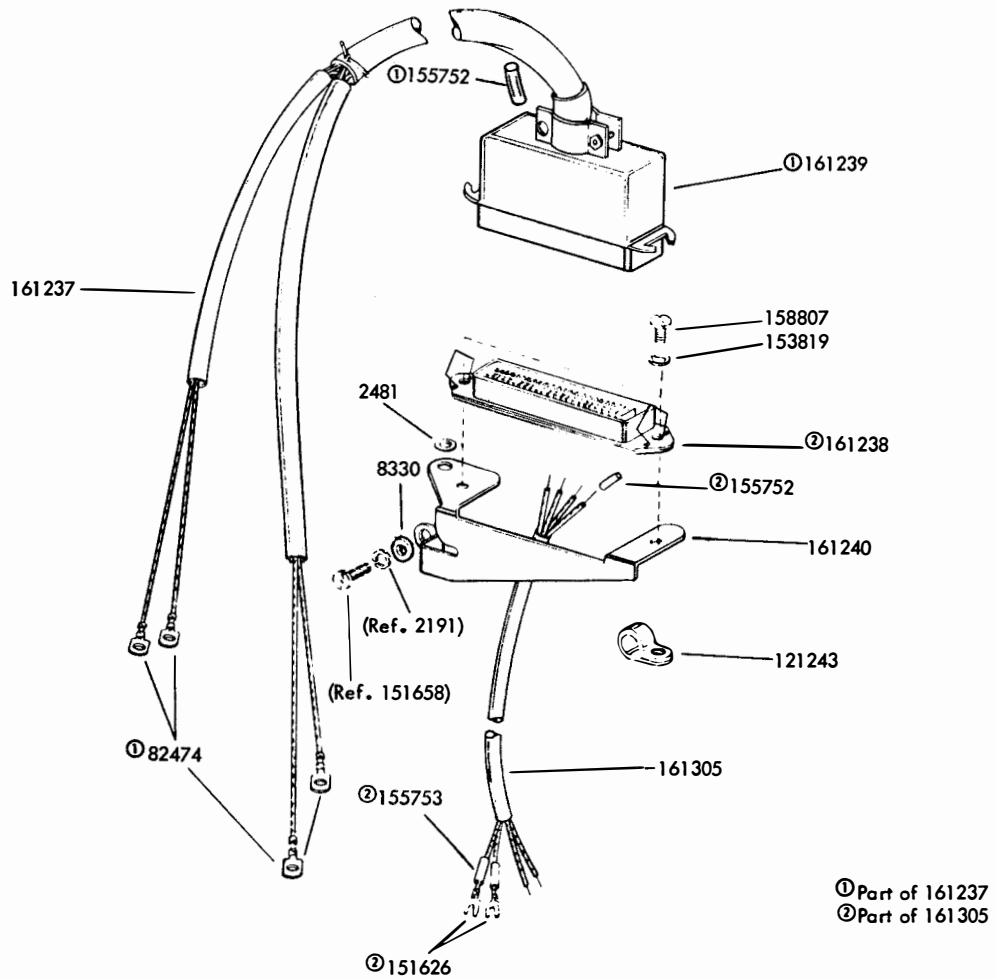


FIGURE 27. KEYBOARD REPERFORATOR UNIT CABLE ASSEMBLY

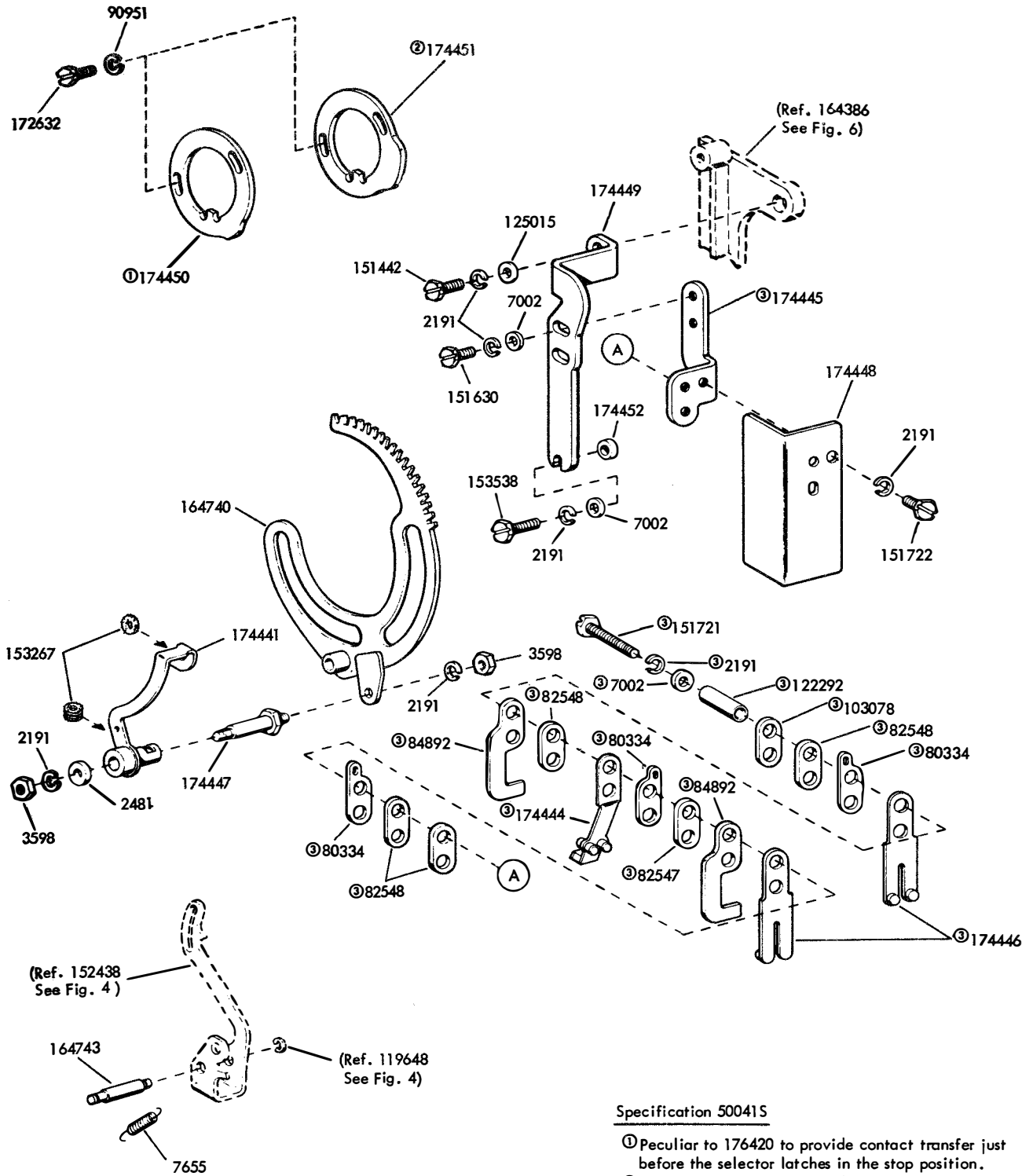
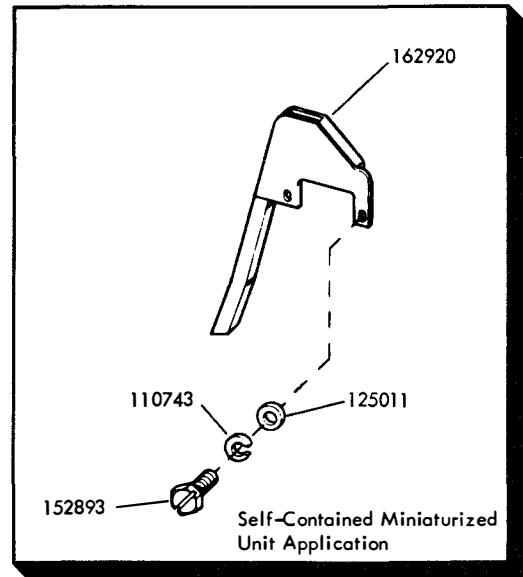
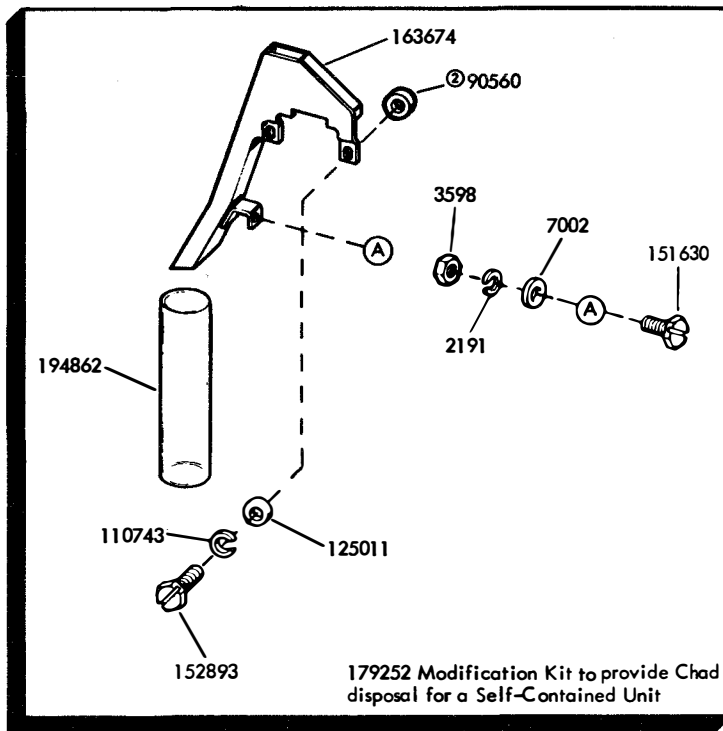
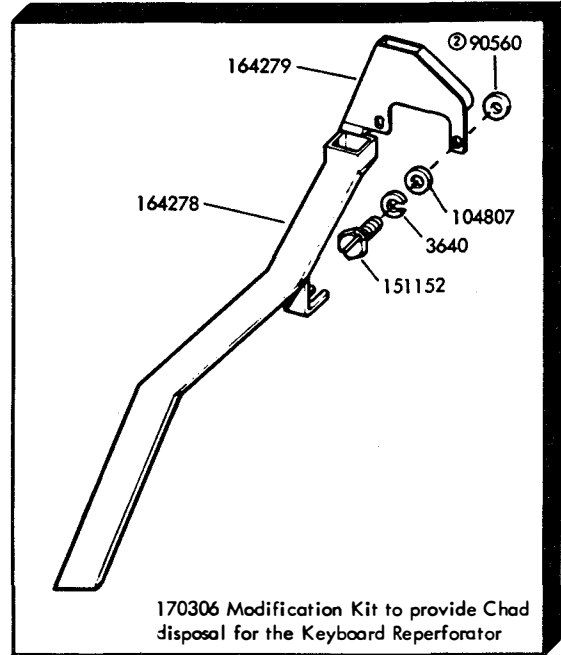
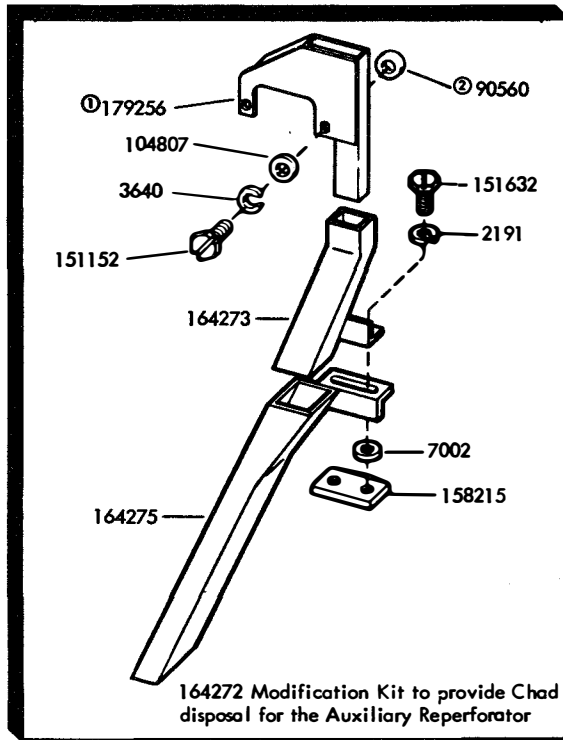


FIGURE 28. 174439 (LESS CAM), 176420 AND 176421 (WITH CAMS) MODIFICATION KITS TO ADD TIMING CONTACT MECHANISM TO 5 LEVEL SINGLE CYCLE UNITS



- ① The 179256 Chad Chute is also used for the L/H RT Set.
- ② The 90560 Shim mounts between the Chad Chute and the Punch Block when the Punch Block face is offset. When the Punch Block face is flat the 90560 Shim mounts between the Chad Chute and the 104807 or the 125011 Flat Washer.

FIGURE 29. CHAD CHUTES

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
190M	Coil, Magnet 19	87401	Spring 9	150040	Screw (6-40 x 5/8 Fil) 3, 4
224M	Coil, Magnet 16, 19	90361	Washer, Felt 13	150043	Shoe, Secondary Clutch 3, 4, 5
254M	Coil, Magnet 8	90517	Spring 7	150044	Shoe, Primary Clutch 3, 4, 5
1036	Nut (6-40 Hex) 10	90560	Washer, Flat 15, 28	150048	Spring 6, 9
1163	Screw (4-40 x 3/16 Fil) 23	90573	Spring 14	150089	Screw (4-40 x 1/2 Fil) 8
2034	Washer, Flat 6, 7, 9, 16, 18, 21	90790	Washer, Flat 16	150241	Spring 3, 4, 5, 7, 9
2191	Washer, Lock 3 to 11, 13 to 22, 24 to 28	90791	Washer, Lock 10	150355	Lever, Latch 9
2438	Washer, Flat 8	90951	Washer, Lock 27	150356	Lever, Trip 9
2481	Washer, Flat 17, 26, 27	91120	Spring 10	150687	Stud 6, 7, 21
2539	Nut (3/8-32 Hex) 20	91139	Roller 25	150830	Bushing, Shoulder 4, 5
2669	Washer, Lock 6, 7, 14	93108	Washer, Lock 5	150841	Bearing 4, 5
3598	Nut (6-40 Hex) 3 to 7, 9, 10, 11, 13, 14, 16, 18, 19, 21, 22, 27, 28	93118	Washer, Lock 11	150923	Washer, Felt 13, 22
3599	Nut (4-40 Hex) 6 to 9, 11, 16, 18, 19, 20	93356	Washer, Felt 9, 10	150978	Screw (6-40 x 1-1/8 Fil) 8
3606	Nut (6-40 Hex) 5, 11	96717	Screw, Shoulder (4-40) 6, 7	150991	Washer, Felt 22
3640	Washer, Lock 3 to 5, 9, 16 to 21, 28	101386	Spring 7	151073	Screw (4-40 x 5/32 Fil) 8, 9, 12, 13, 17, 23
3650	Washer, Flat 16	101796	Washer, Felt 20	151103	Spring 6
4703	Spring 18, 19	103078	Plate 27	151152	Screw (4-40 x 3/16 Hex) 9, 12, 16, 17, 19, 21, 26, 28
4812	Wick, Felt 21	104807	Washer, Flat 28	151222	Washer, Felt 13
5363	Spring, Compression 10	104824	Spring 8	151246	Washer, Flat 3, 4, 5
5740	Screw (2-56 x 1/4 Fil) 11	110434	Screw (4-40 x 3/16 Fil) 6, 7	151336	Oiler 6, 7
7002	Washer, Flat 5, 6, 7, 9, 10, 11, 13, 14, 16 to 20, 24, 27, 28	110743	Washer, Lock 3 to 18, 20 to 24, 26, 28	151346	Screw (6-40 x 3/8 Fil) 5
7603	Spring 18, 19	111017	Screw (6-40 x 5/16 Fil) 14	151362	Wick, Felt 14
7655	Spring 21, 27	111410	Washer, Flat 9	151416	Nut (6-40 Hex) 10, 13
8330	Washer, Flat 6, 7, 9, 13 to 16, 18, 20, 21, 22, 26	111777	Connector, Receptacle (4 Pt) 17	151442	Screw (6-40 x 1/2 Hex) 3 to 6, 9, 16, 19, 27
41382	Spring 6, 7, 10	112352	Washer, Flat 11	151603	Spacer 8
41543	Bearing, Ball 5	112626	Nut (10-32 Hex) 6, 7	151618	Screw (6-40 x 7/16 Fil) 9
41732	Plate, Clamp 17	112967	Washer, Flat 5	151626	Terminal 8, 19, 24, 26
42823	Washer, Flat 3, 4, 5	113039	Post, Spring 21	151629	Nut (6-40 Lug) 9, 13, 14, 20, 21, 22
45024	Spring 14	119647	Ring, Retaining 10	151630	Screw (6-40 x 1/4 Hex) 4 to 7, 9, 10, 14, 17, 20, 22, 27, 28
45104	Spring 18, 19	119648	Ring, Retaining 6, 7, 10, 12, 14, 15, 16, 21, 22, 26, 27	151631	Screw (6-40 x 5/16 Hex) 5, 8, 9, 14, 15, 24
45963	Spring 20	119649	Ring, Retaining 10, 16 to 21, 23, 25	151632	Screw (6-40 x 3/8 Hex) 3, 4, 5, 16 to 20, 25, 28
49084	Spring 17	119650	Ring, Retaining 9, 13, 22	151637	Screw (4-40 x 1/4 Fil) 3, 11, 18, 23, 24
55063	Spring 12, 15, 16	119651	Ring, Retaining 9, 15, 16, 18, 22	151640	Lever, Shoe Release 3, 5
55669	Spring 21	119652	Ring, Retaining 6, 7, 9, 10, 13, 18, 19, 21, 22	151642	Screw (6-40 x 3/4 Fil) 20
70878	Spring 15, 16	119653	Ring, Retaining 21, 22	151657	Screw (6-40 x 1/4 Fil) 4, 6, 7, 9
71073	Washer, Flat 11	119654	Ring, Retaining 4, 5	151658	Screw (6-40 x 5/16 Fil) 3, 4, 5, 20, 23
71437	Washer, Flat 13	119655	Ring, Retaining 20	151659	Screw (6-40 x 1/2 Fil) 20
72522	Wick, Felt 10	119656	Ring, Retaining 20	151685	Screw (4-40 x 5/16 Fil) 20
73175	Washer, Lock 20	121242	Clamp, Cable (1/8 ID) 9	151686	Screw (4-40 x 3/8 Fil) 8
73611	Wick, Felt 17	121243	Clomp, Cable (3/16 ID) 26	151688	Screw (4-40 x 5/8 Fil) 8, 17, 19
74283	Washer, Spring 6, 7	121538	Terminal 8	151690	Screw (10-32 x 5/16 Fil) 3, 4, 5
74727	Terminal, Contact 17	122149	Screw (4-40 Spl) 15	151693	Screw (6-40 x 9/16 Fil) 3, 4, 5
76081	Washer, Flat 8, 9	122292	Bushing, Insulating 27	151694	Screw (6-40 x 11/32 Fil) 17, 20
76099	Washer, Flat 8	124177	Washer, Lock 6, 7, 10, 14	151701	Spring, Torsion 6
76246	Bushing, Insulating 17	124334	Screw (6-40 x 1-27/32 Hex) 24	151703	Pin 15, 23
76422	Spring 21	125011	Washer, Flat 6, 7, 9, 11, 12, 14, 15, 17 to 21, 23, 24, 26, 28	151714	Spring 6, 7
78533	Spring 6, 18, 19	125015	Washer, Flat 8, 9, 13, 27	151715	Spring 8
79012	Insulator 8	125215	Screw (4-40 x 3/16 Hex) 16, 19	151721	Screw (6-40 x 3/4 Hex) 16, 27
80334	Terminal, Contact 27	125231	Nut (10-32 Hex) 14	151722	Screw (6-40 x 3/16 Hex) 9, 10, 14, 19, 27
80755	Bushing, Insulating 17	128357	Ring, Retaining 13	151728	Spring 3, 5
81778	Screw (4-40 x 3/16 Fil) 8	131099	Terminal (5/8" Lg) 24	151732	Screw (4-40 x 11/32 Fil) 22, 24
82463	Spring 18, 19	135716	Spring 9	151736	Spring 4, 5
82474	Terminal 16, 17, 26	139752	Screw (4-40 x 11/64 Fil) 9	151737	Screw (4-40 x 11/64 Hex) 3, 4, 5, 13, 16, 17, 23
82547	Insulator (.094 Thk) 27	144872	Pin 22	151739	Screw (6-40 x 3/16 Hex) 22
82548	Insulator (.062 Thk) 17, 27	150000	Drum, Clutch 3, 4, 20	151880	Nut (40-40 Hex) 21
84226	Spring 18, 19	150001	Drum, Clutch 3, 4, 5	152400	Plate, Selector Mtg 6, 8, 9, 21
84575	Spring 9, 16	150013	Disk, Adjusting 3, 5		
84592	Shim (.004 Thk) 21	150014	Disk, Adjusting 4, 5		
84892	Stiffener 27	150026	Lever, Shoe Release 3		
86079	Washer, Felt 18, 25	150027	Lever, Shoe Release 4, 5		
86304	Spring 15	150029	Wick, Felt 3, 4, 5		
86873	Spring 20	150034	Disk, Clutch (2 Stop) 4, 5		

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
152401	Guide 6,7	156009	Post, Slide 13	156412	Link, Drive 14
152402	Guide, Selector Lever 6, 7	156012	Spring, Punch Block 12	156465	Washer, Spring 3, 4, 5
152403	Bracket, Guide 6	156013	Screw (4-40 Spl) 13	156467	Ring, Retaining 3, 5
152404	Bracket, Spring 6	156015	Plate, Spring 13	156472	Post, Spring 9
152406	Bracket, Spring 6	156016	Link, Front Drag 13	156473	Shaft, Main 25
152407	Lever, Spacing Lock 6	156017	Shaft, Eccentric 13	156490	Post, Guide 9
152409	Lever, Selecting 6	156019	Washer, Felt 10, 22	156515	Washer, Felt 22
152410	Bail, Reset 6	156020	Slide 11	156536	Screw (4-40 x 1/8 Fil) 6, 7, 21
152412	Link 6, 7	156024	Plate, Rear 10, 11, 13	156558	Washer, Felt 19
152415	Stud, Adjusting 3, 5, 8	156028	Plate, Front 10, 12, 13, 15, 16, 21	156572	Washer, Felt 17
152420	Lamination, Magnet 8	156036	Guide, Tape 10	156576	Washer, Felt 14
152421	Bracket, Shield Mounting 8	156040	Post 10, 26	156577	Roller, Detent Lever 10
152423	Bracket, Armature Stop Mounting 8	156042	Post, Spacing 10	156632	Screw (6-40 x 13/32 Hex) 11
152425	Post, Spring 8	156043	Bushing 13	156740	Screw (6-40 x 7/32 Hex) 16, 20
152426	Nut, Self-Locking (6-40) 8	156044	Stud, Die Wheel 10	156880	Jumper (2-3/8" Black) 8
152427	Latch w/Hub 6, 7	156045	Shaft, Feed Wheel 10	156881	Jumper (1-1/2" Black) 8
152429	Rack, Sector 6, 7	156046	Block, Tape Guide 11	156884	Arm, Rocker 13
152432	Arm, Stop 6	156047	Spring, Torsion 10	156921	Guide, Adjusting Lever 14
152436	Knob, Range Scale 6	156050	Stud, Eccentric 10	156941	Cam, Selector 3, 5
152438	Bail, Stop Arm 6, 27	156051	Bushing, Eccentric 13	156976	Connector, Plug (32 Pt) 17
152441	Washer, Flat 6, 7	156052	Shoe, Tape 10, 26	156987	Screw (6-40 Spl) 14
152445	Spring, Compression 6, 7	156054	Lever, Detent 10	156988	Race, Outer 14
152457	Wick, Felt 9	156055	Wheel, Die 10	156989	Bearing 14
152458	Shield, Terminal 8	156058	Link, Rear 13	156990	Race, Inner 14
152634	Washer, Flat 13	156060	Shaft, Eccentric 13	156994	Strip, Felt 14
152891	Spring 6	156061	Arm, Tape Shoe 10, 26	156995	Post 14
152893	Screw (4-40 x 1/4 Hex) 3 to 7, 9 to 14, 16 to 19, 21, 23, 28	156062	Post, Pivot 10	156998	Retainer, Roller 14
153184	Post 8	156067	Guide, Slide Post 13	157194	Retainer, Spring 8
153239	Roller 14	156069	Plate 11	157237	Shield, Terminal 8
153267	Washer, Felt 12, 27	156070	Bail, Toggle 13	157261	Shaft, Stop Arm 6, 7
153489	Detent 6, 7	156077	Plate w/Post 13	158169	Frame 5
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153538	Screw (6-40 x 7/16 Hex) 5, 11, 27	156089	Slide w/Insulator 11	158171	Shaft w/Bearing 5
153577	Washer, Felt 22	156090	Screw, Adjusting (6-40) 10	158172	Washer, Latch 9
153799	Screw (4-40 x 21/64 Hex) 20	156093	Washer, Felt 13	158173	Cam, Reset 9
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153819	Washer, Lock 26	156095	Bushing 13	158180	Cam w/Pins 5
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154335	Screw (6-40 x 9/32 Fil) 5	156103	Strip, Felt 13	158185	Gear (49T) 5
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154398	Bearing, Needle 3, 4, 5	156137	Washer, Flat 20	158745	Clamp, Bearing 3, 4, 5
154620	Wick, Leather 6	156152	Shaft, Feed-Out Drive 14	158760	Post, Spring 16
154621	Retainer, Wick 6	156159	Bracket 17	158772	Screw (4-40 x 5/8 Hex) 18
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155090	Lubricator Asm 6	156165	Washer, Felt 9, 13	158881	Nut, Shoulder (6-40) 5
155096	Plate, Range Finder Mounting 6	156168	Spring 11	158901	Bracket, Guide 7
155556	Link 22	156169	Washer, Felt 13	158902	Lever, Marking Lock 7
155724	Strip, Insulating 24	156172	Rod 12	158904	Lever, Start 7
155725	Plate 24	156173	Stud 11	158905	Lever, Spacing Lock 7
155750	Sleeve, Insulating (3/32 ID x 1/2 Lg) 8, 16, 17	156177	Bracket, Contact 17	158906	Lever, Selecting 7
155752	Sleeve, Insulating (5/64 ID x 1/2 Lg) 26	156183	Bracket, Anchor 10	158907	Spring 7
155753	Sleeve, Insulating (1/8 ID x 1/2 Lg) 17, 26	156184	Bracket, Anchor 10	158919	Camsleeve 4
155781	Bracket 23	156235	Post, Guide 9	158923	Bearing, Sleeve 4
155782	Bracket 24	156236	Collar 25	158924	Disk 4
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158947	Plate 7, 9, 21	159890	Gear Set 1, 5	161342	Lever, Start 6
158949	Plate w/Studs 7	159891	Pinion (21T) 5	161493	Post, Supporting 15
158950	Contact Asm, Code Reading 17	159892	Gear (48T) 5	161495	Plate 23
159011	Bracket, Spring 9	159893	Gear Set 1, 5	161496	Bracket, Spring 23
159039	Spring, Torsion 23	159894	Pinion (14T) 5	161497	Block, Lid 23
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28 RECEIVING-ONLY REPERFORATOR OR TAPE PRINTER BASE (LRB)

and

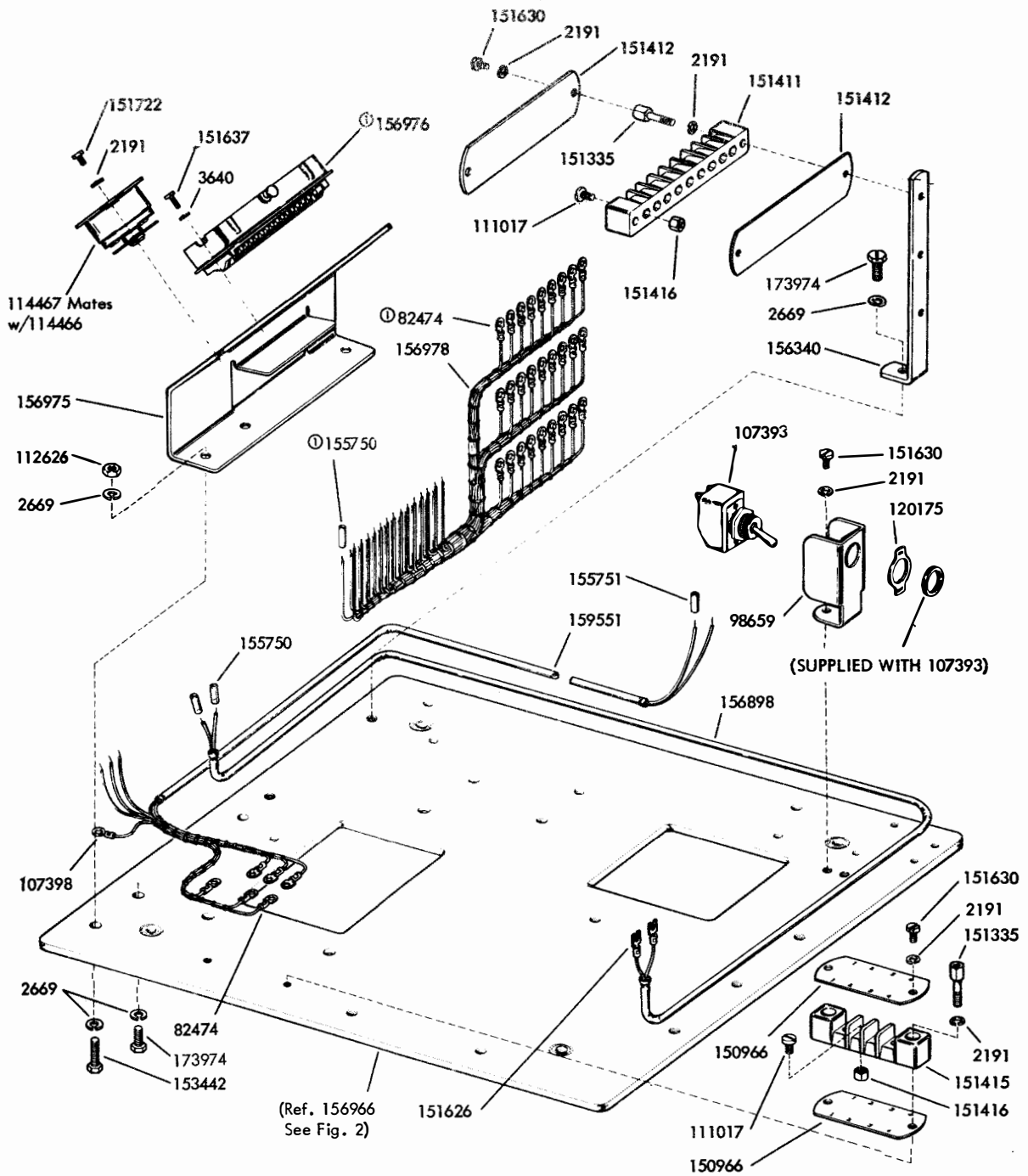
28 RECEIVING-ONLY MULTIPLE REPERFORATOR BASE (LMRB)

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 (40)	BK	GA (45)	
Beige, Rose		ER			Gray, Light		EJ		HB (68)
Black	AA (37)				Gray, Covert				HE
Black, High Gloss		BA (34)			Gray, Olive		EW	GE	HF (46)
Black, Semi Gloss		BB			Gray, Maritime Deck	AJ	BJ		
Blue, Aqua		EK			Gray, Oxford		EP		
Blue, Brussels Light		EC			Green, Gray	AB (40)	BK	GA (45)	
Blue, Medium		ES			Green, Moss		EN		HD
Brown, Dark	AD (38)	BL			Ivory		EM		
Brown, Light	AC (39)			HG	Pink, Rose		EU		
Fawn					Turquoise		EV		
Gray, Beige			GC		White		EH		
Gray, Charcoal	AL	BZ	GF	HA	Yellow, Pastel		EG		
Gray, Dark			GB						
Gray, Navy Light		BR							

The double asterisk (**) denotes a painted part. Suffix to be applied following the part number.
Number in parentheses indicates Bell System code.

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**Refer to page 1 for finish suffix.



Ⓢ156978 Cable Assembly

FIGURE 1. REPERFORATOR BASE (Single Plate)

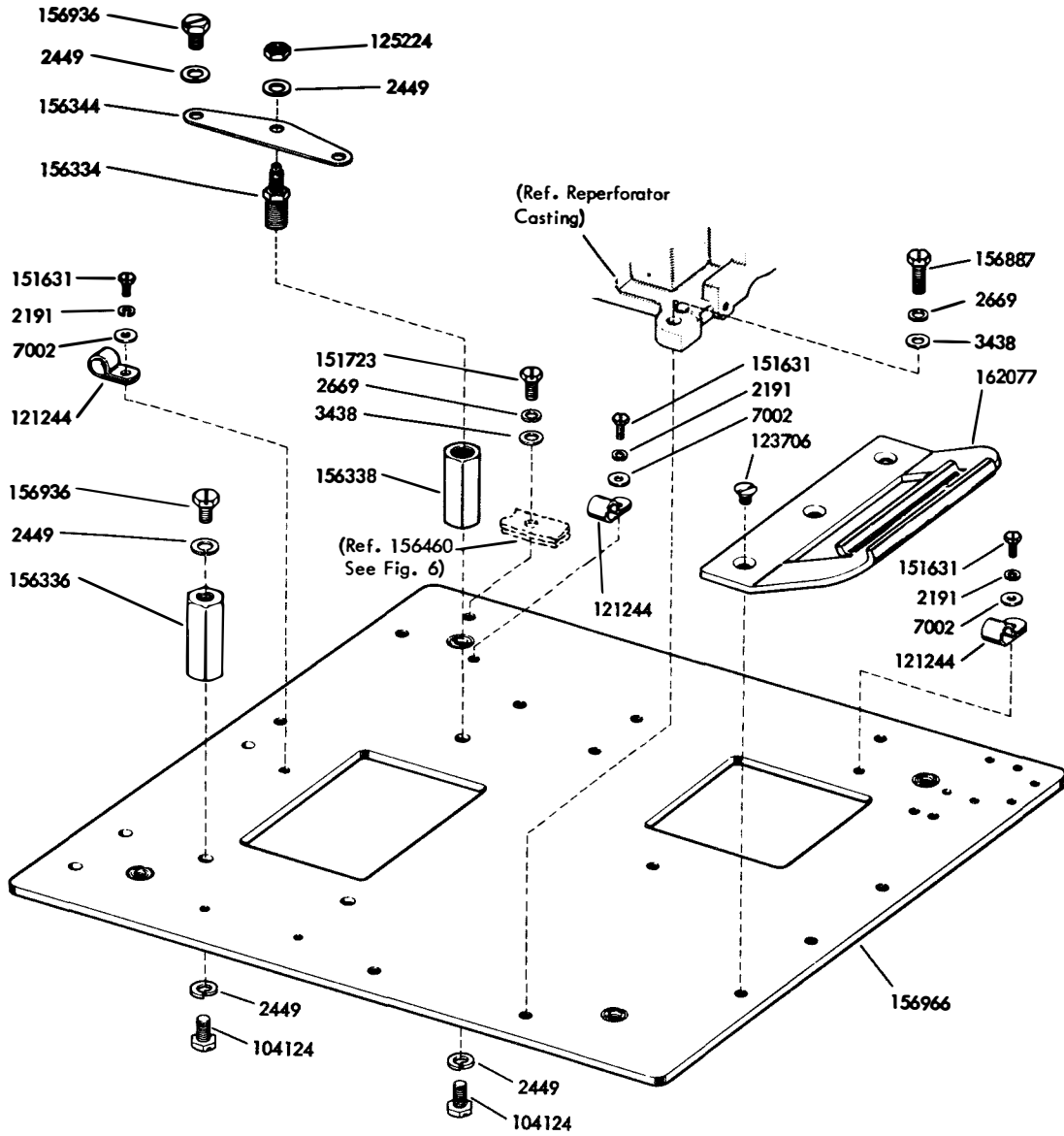


FIGURE 2. REPERFORATOR BASE (Single Plate)

Speed Change Gears for Self-Contained Sprocket Driven Units (Order Separately)						
Set Number	Pinion	Driven Gear	Approx. O.P.M. (Receiving)	Approx. W.P.M.	Unit Code	Baud
161519	161104 (11T)	161103 (49T)	461.7	67	7.42	50
161654	156982 (9T)	156981(44T)	420	60	7.42	45.45
161655	156984(12T)	156983(47T)	525.7	75	7.42	56.88
161656	156986(14T)	156985(42T)	685	100	7.42	74.2
①176295	176296(15T)	176297(43T)	692	107	7.00	75
②311283	311272 (14T)	311273 (52T)	461.7	67	7.42	50

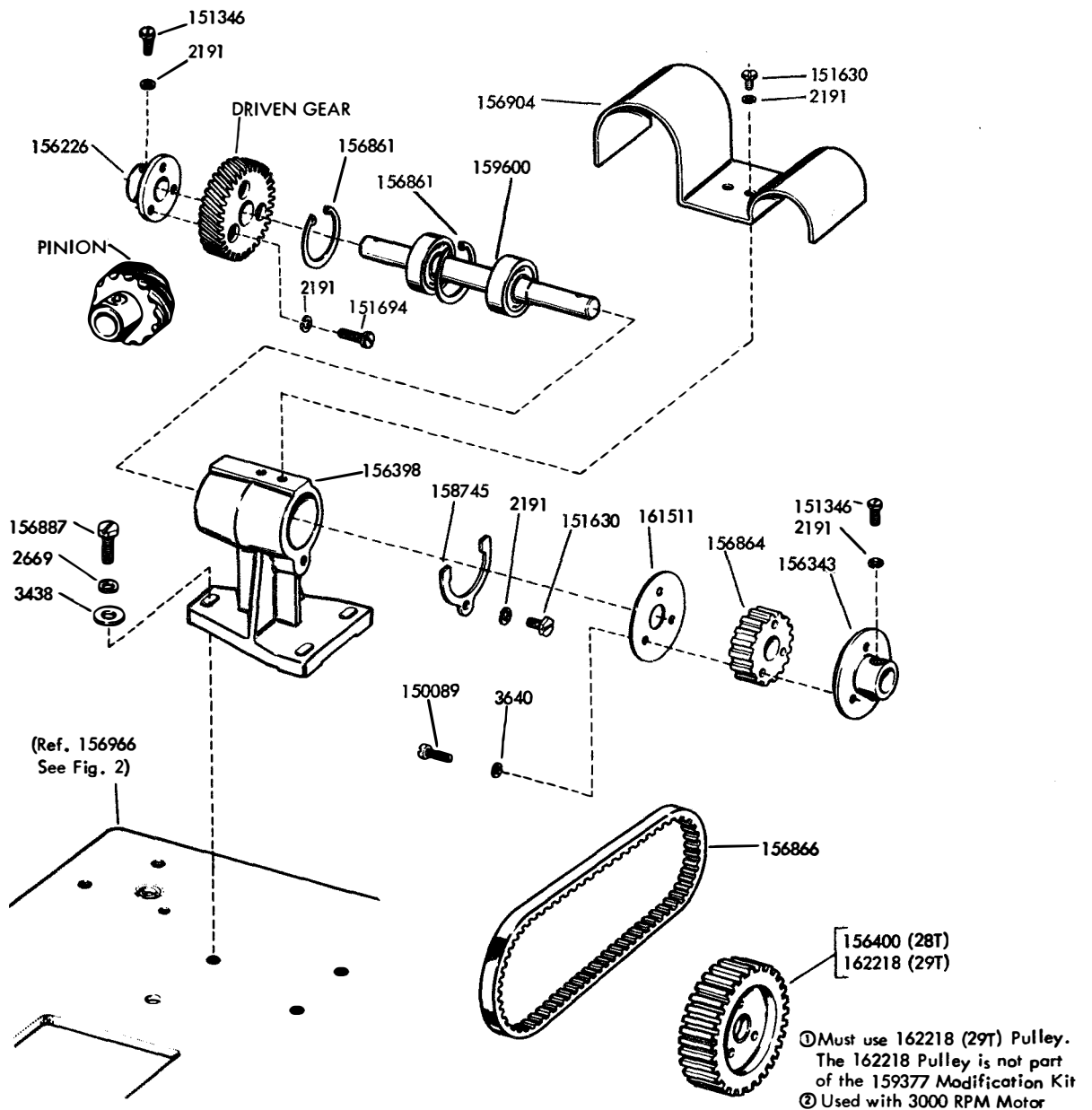


FIGURE 3. 159377 MODIFICATION KIT TO PROVIDE SINGLE SPEED DRIVE

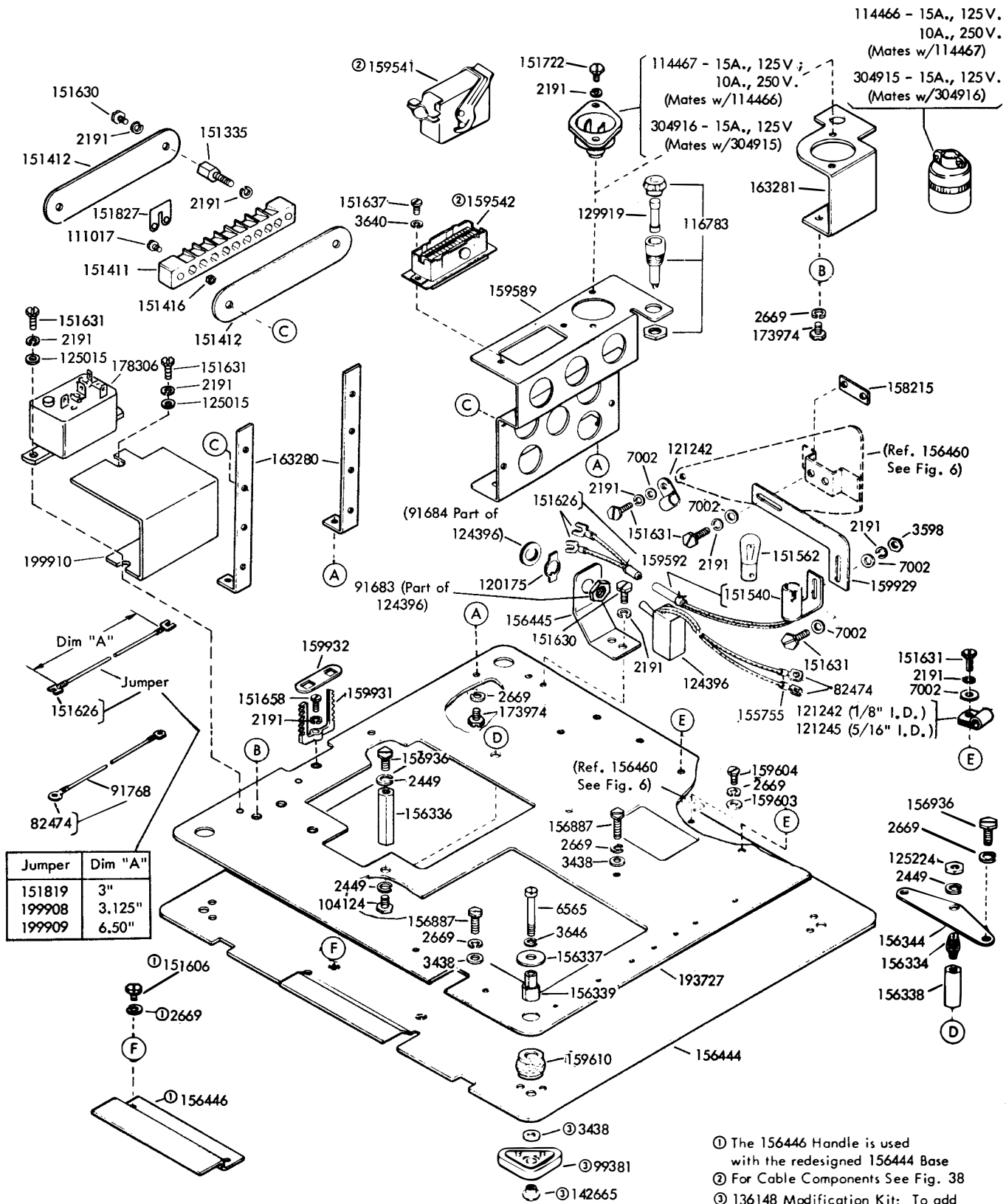
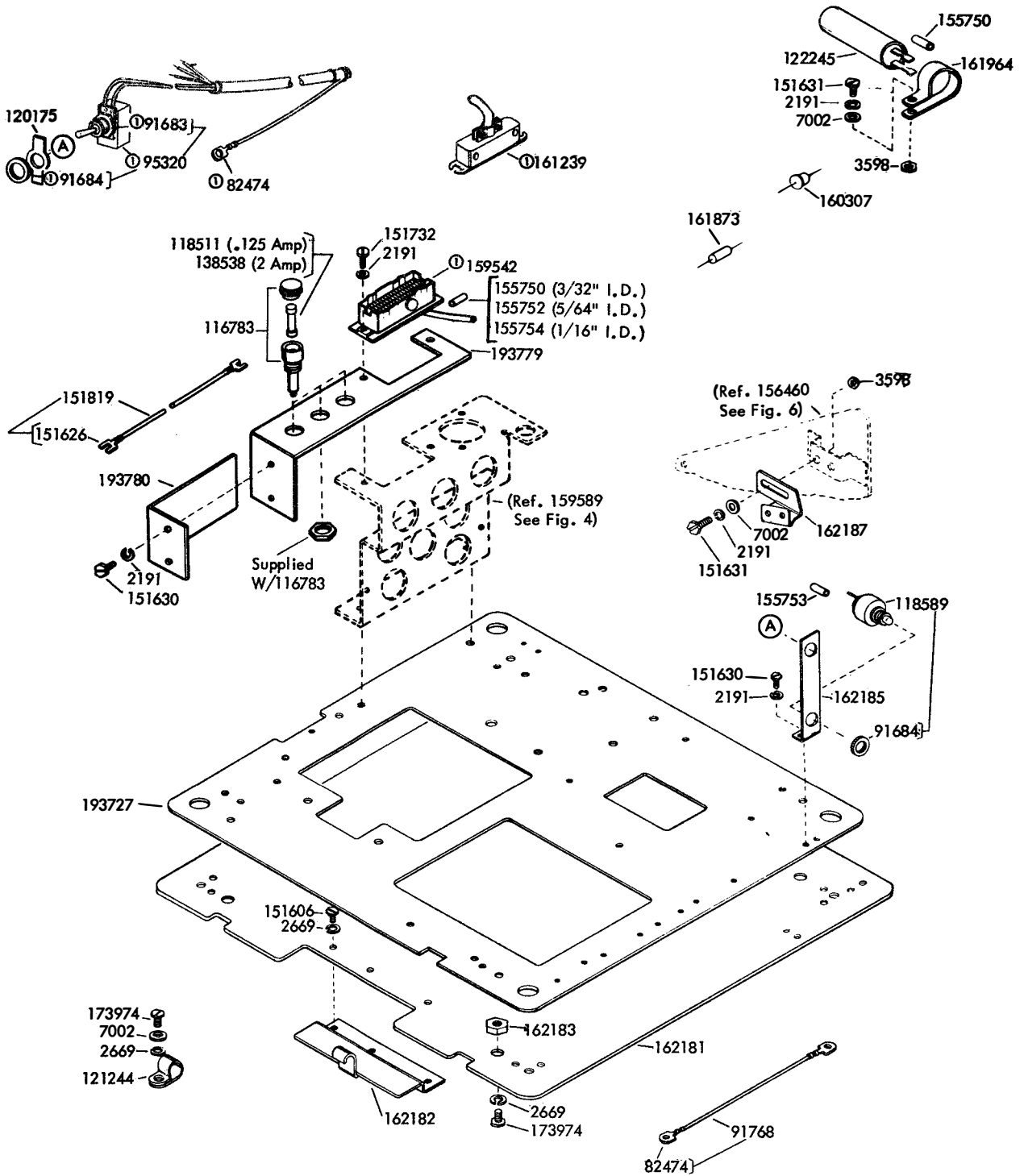


FIGURE 4. REPERFORATOR BASE (Double Plate)



Ⓞ Part of 162574 and 193778 Cable Assemblies

FIGURE 5. REPERFORATOR BASE (Double Plate)

Tape Container Assembly	Tape Container	Guide w/ Roller	Spacer	Tape Reel	Cable Assembly	Tape Width
156974	156460	195658	207223WU	158289 (2")	156972	11/16"
162079	156460	156470	207223WU	162075 (1")	162373	11/16"
192867	192865	193837	192868	192864 (2")	194221	1"

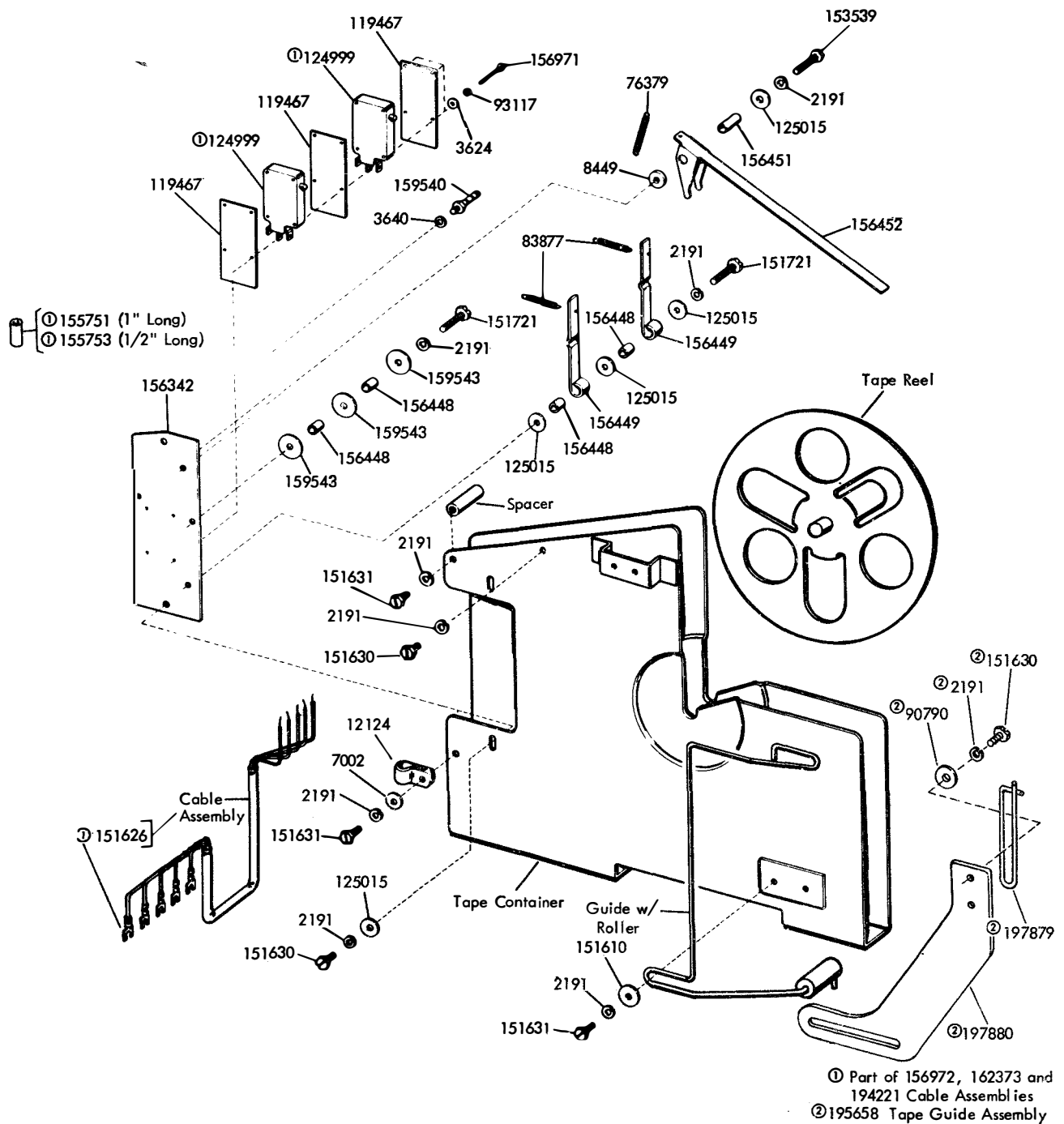
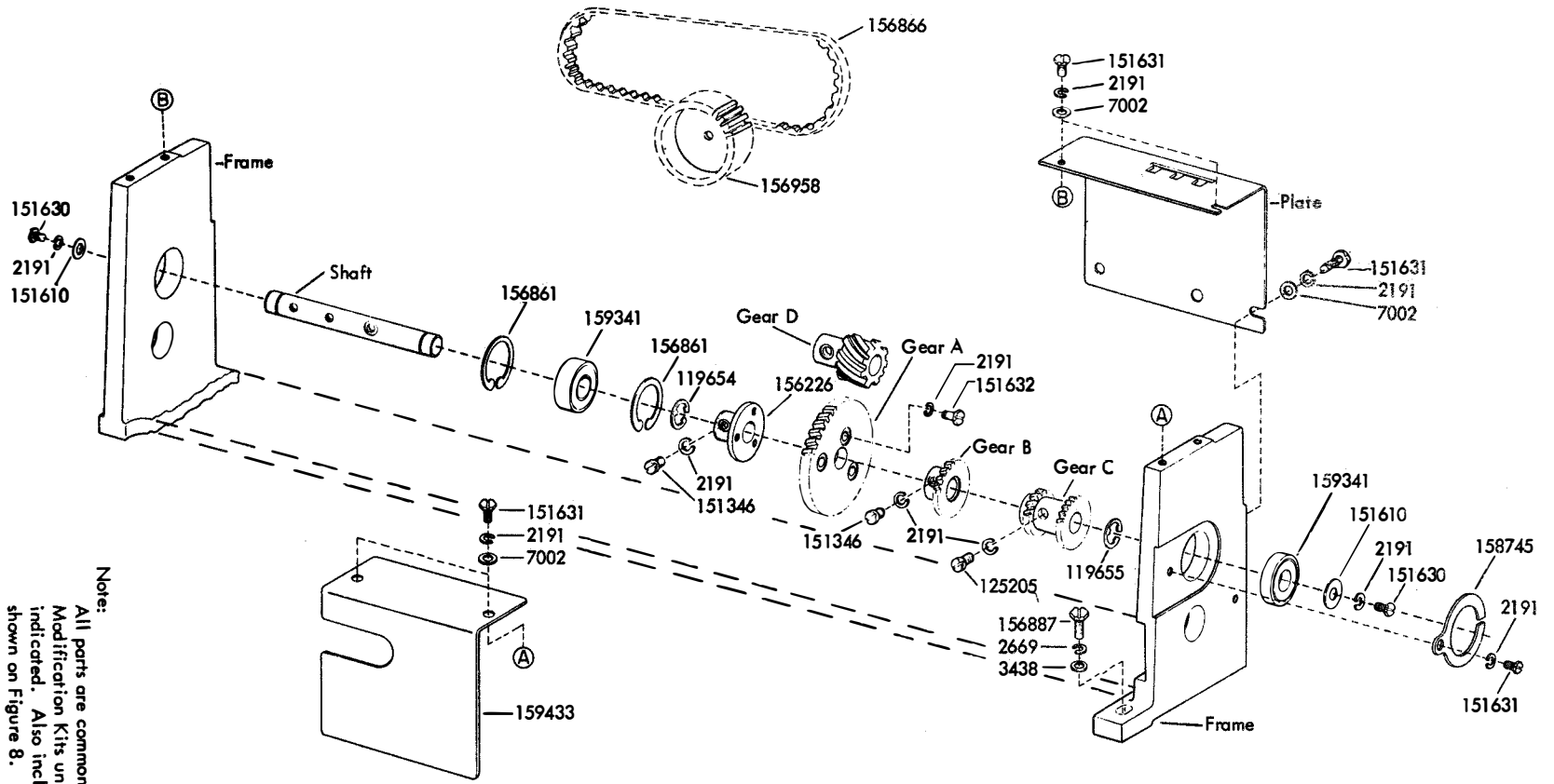


FIGURE 6. TAPE CONTAINER

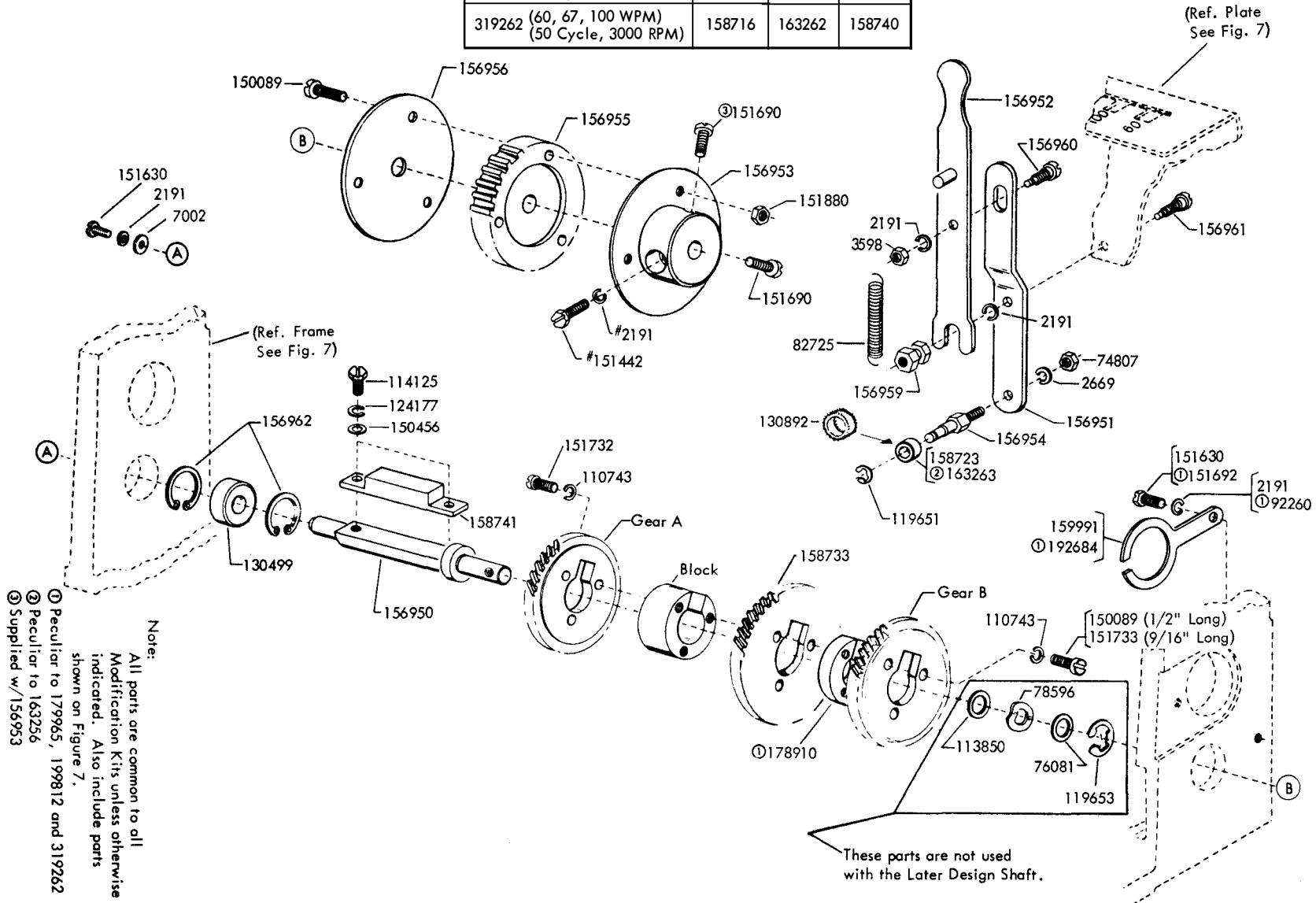
Modification Kit	Frame	Shaft	Gear A	Gear B	Gear C	Pinion D	Guide Plate	Unit Code
159417 (60, 75, 100 WPM)	156965	156967	156949	158712	158732	156964	156968	7.42
163256 (60, 67, 75 WPM)	156965	163264	163260	163261	158732	156964	163328	7.42
179965 (45.5, 50, 75 Baud)	192685	156967	163260	179963	178870	156964	179969	7.00
319262 (60, 67, 100 WPM) (50 Hz, 3000 WPM)	156965	156967	319260	158712	178870	319259	199814	7.42
199812 (60, 67, 100 WPM) (60 Hz, 3600 WPM)	156965	156967	156949	158712	178870	156964	199814	7.42



Note:
All parts are common to all
Modification Kits unless otherwise
indicated. Also include parts
shown on Figure 8.

FIGURE 7. MODIFICATION KITS TO PROVIDE VARIABLE SPEED DRIVE

Modification Kit	Gear A	Gear B	Block
159417 (60, 75, 100 WPM)	158716	158734	158740
163256 (60, 67, 75 WPM)	163262	158734	163265
179965 (45.5, 50, 75 Baud)	179962	163262	158740
199812 (60, 67, 100 WPM) (60 Cycle, 3600 RPM)	158716	163262	158740
319262 (60, 67, 100 WPM) (50 Cycle, 3000 RPM)	158716	163262	158740



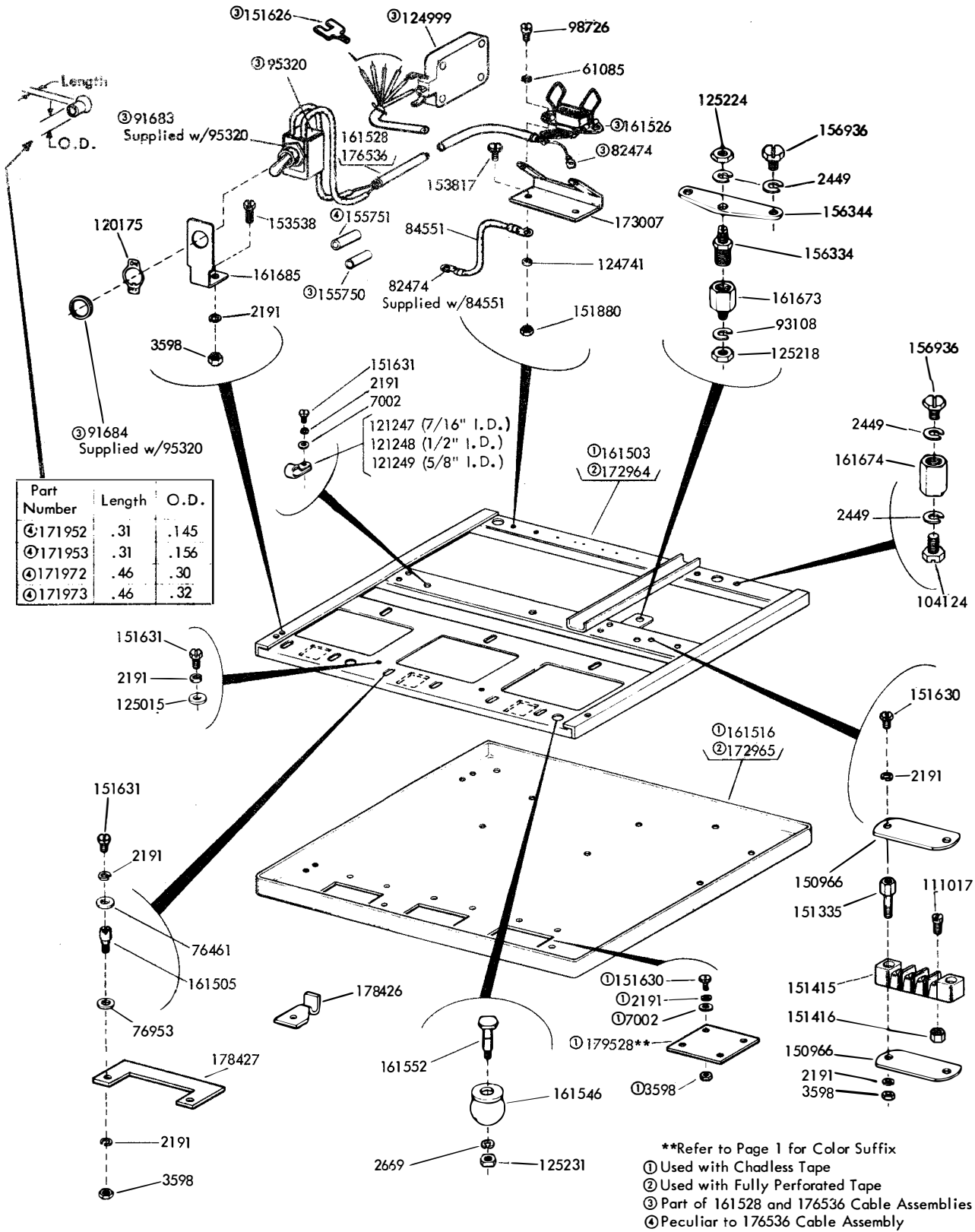


FIGURE 9. MULTIPLE REPERFORATOR BASE (With Cross-Shaft)

Gear Arrangements for Multiple Mounted Reperforators Driven at Common Speed						
Unit Code	7.42			7.00		
WPM (Nominal)	60	75	100	65	71	107
Baud	45.45	56.88	74.2	45.45	50	75
Motor Gear Set	161530	161533	161536			
Pinion	161532 - 9T	161535 - 12T	161538 - 14T	②164339 - 10T	②164337 - 9T	②164339 - 10T
Gear	161531 - 44T	161534 - 47T	161537 - 42T	②164340 - 37T	②164338 - 40T	②164340 - 37T
Mod. Kit at Each Reperforator	161680			①173584	161680	162213

Gear Arrangements for Multiple Mounted Reperforators Driven at Independent Speeds							
Unit Code	7.42			7.00			
WPM (Nominal)	60	75	100	65	71	107	121
Baud	45.45	56.88	74.2	45.45	50	75	84.7
Mod Kit at Each Reperforator	161680:	162213:	162217:	④173584:	161680:	162213:	③173023:
Hub	161509	162215	162220	161509	161509	162215	162220
Cross-Shaft Sprocket	161510 - 16T	162214 - 20T	162219 - 27T	161510 - 16T	161510 - 16T	162214 - 20T	162219 - 27T
Retainer	161511	162216	162221	161511	161511	162216	162221
Belt	161520	161520	162222	162222	161520	161520	162222
Reperforator Sprocket	⑤156400 - 28T	⑤156400 - 28T	162218 - 29T	⑤173583 - 37T	⑤156400 - 28T	⑤156400 - 28T	⑤156400 - 28T
Motor Gear Sets	161530			②164337 - 9T ②164339 - 10T ②164340 - 37T	②164337 - 9T ②164338 - 40T ②164339 - 10T ②164340 - 37T	②164337 - 9T ②164338 - 40T	

- ② Motor gear set numbers not assigned
- ③ Non-Typing reperforators only
- ④ Modification Kit contains sprocket and belt drive part for 3 reperforators
- ⑤ Order separately

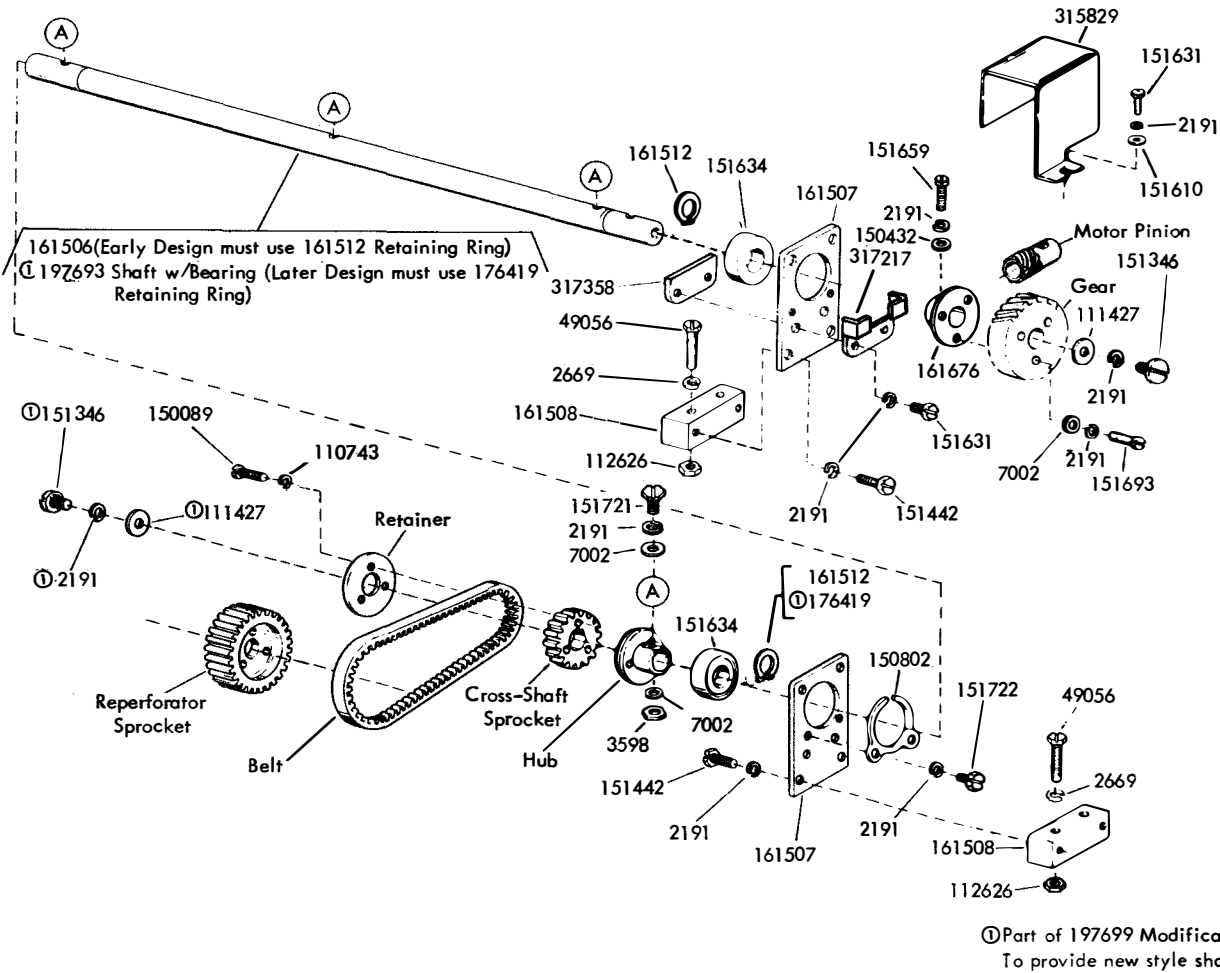
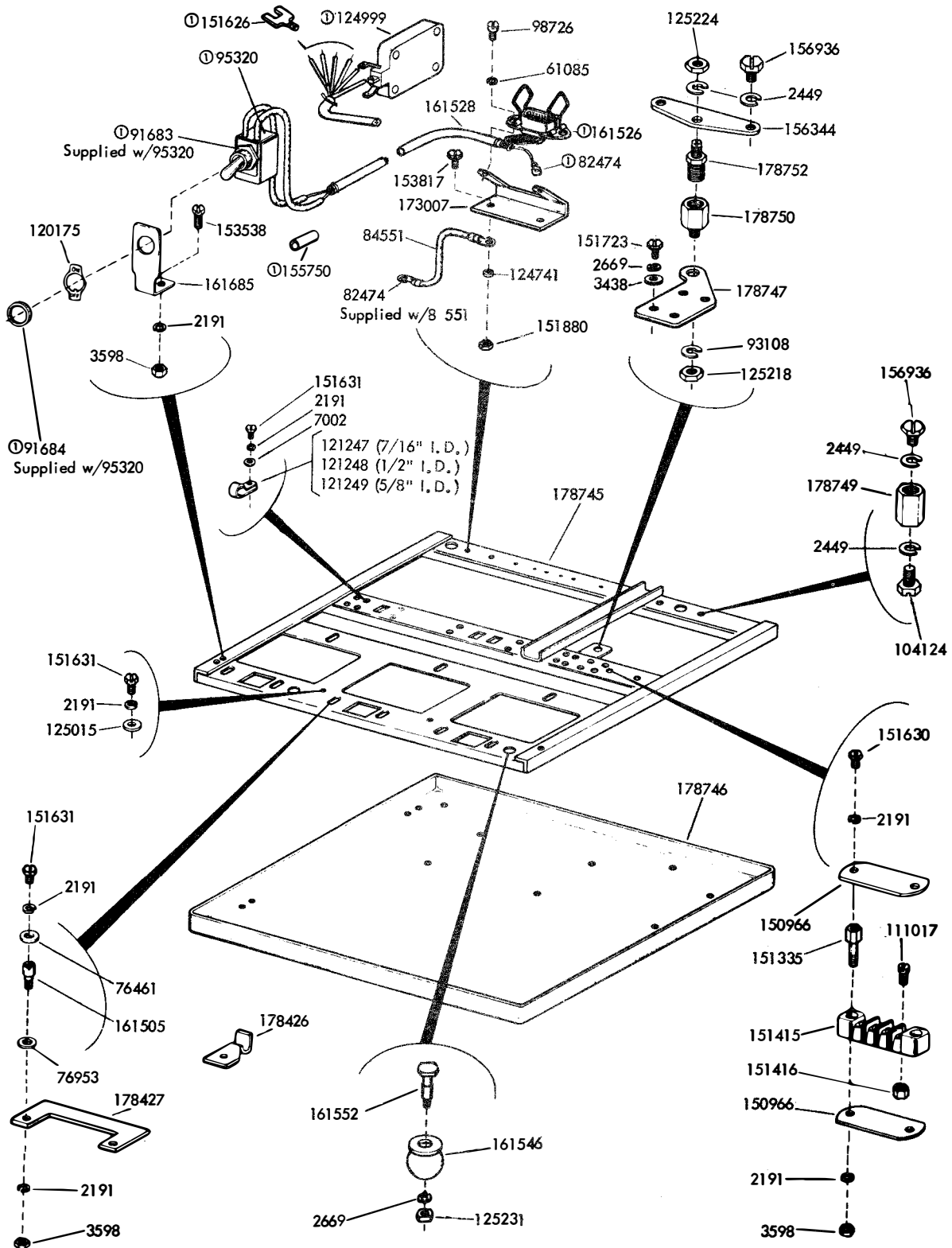


FIGURE 10. CROSS-SHAFT MECHANISM FOR MULTIPLE REPERFORATOR BASE



⊙ Part of 161528 Cable Assembly

FIGURE 11. MULTIPLE REPERFORATOR BASE (With Cross-Shaft and Intermediate-Shaft)

Gear Chart					
Gear Set Number	Cross Shaft Pinion	Gear	Unit Code	WPM (Nominal)	Baud
178798	178799 - 45T	178800 - 53T	7.00	107	75
178801	178802 - 33T	178803 - 49T	7.00	71	50
			7.50	66	50
178804	178810 - 30T	178811 - 49T	7.00	65	45.45
178813	178814 - 37T	178815 - 37T	7.00	106	74.2

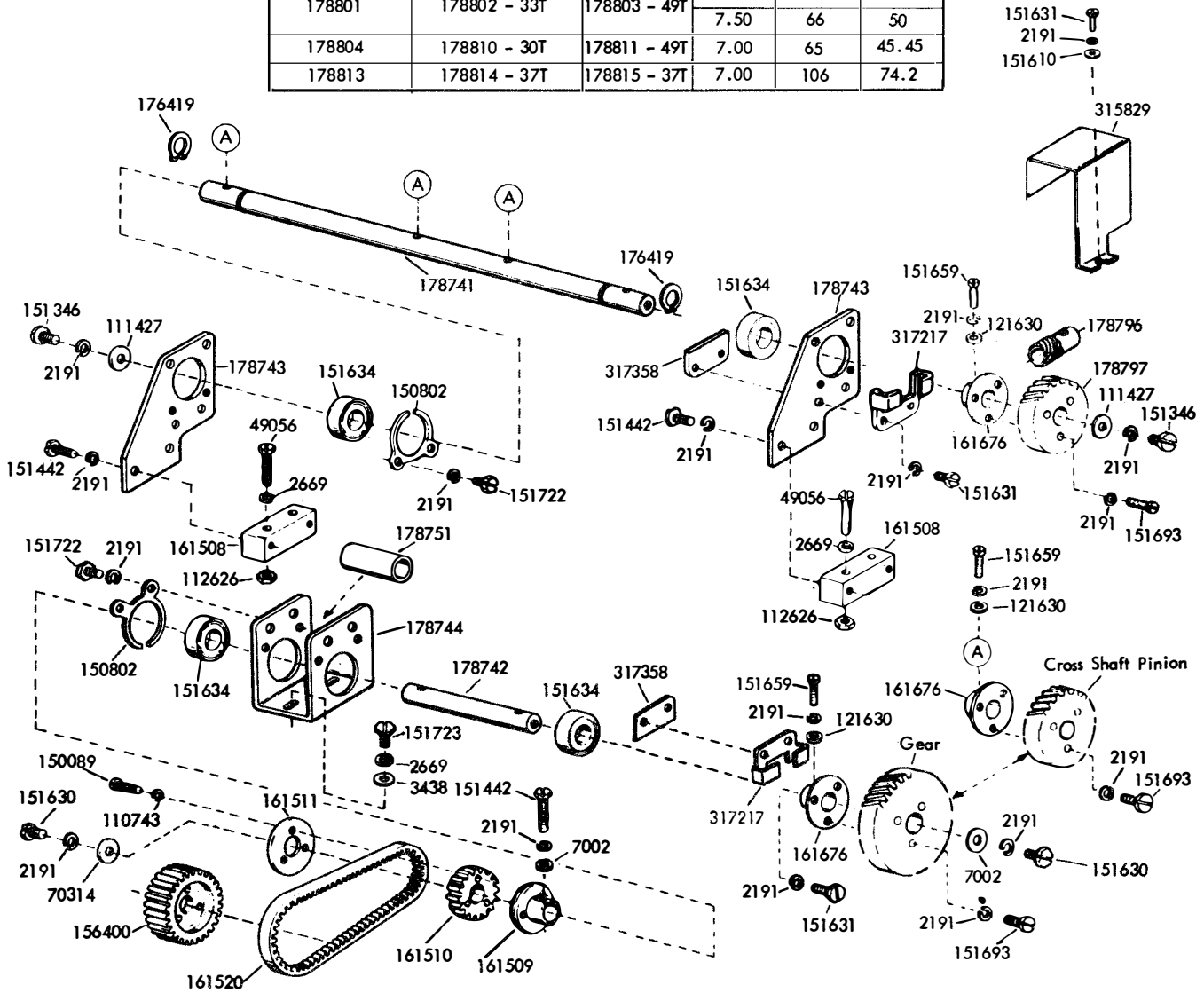


FIGURE 12. CROSS-SHAFT AND INTERMEDIATE SHAFT MECHANISM FOR MULTIPLE REPERFORATOR BASE

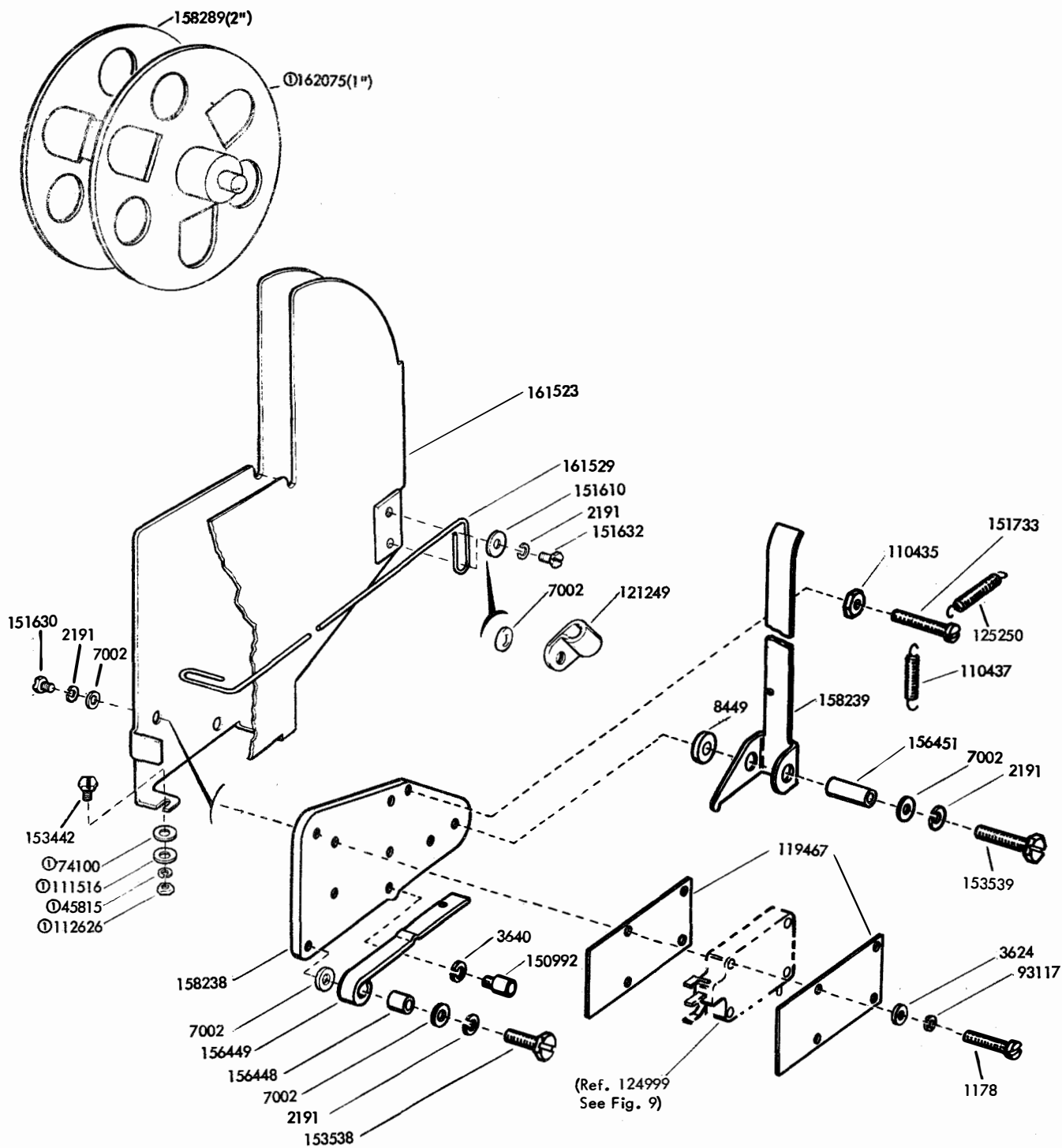
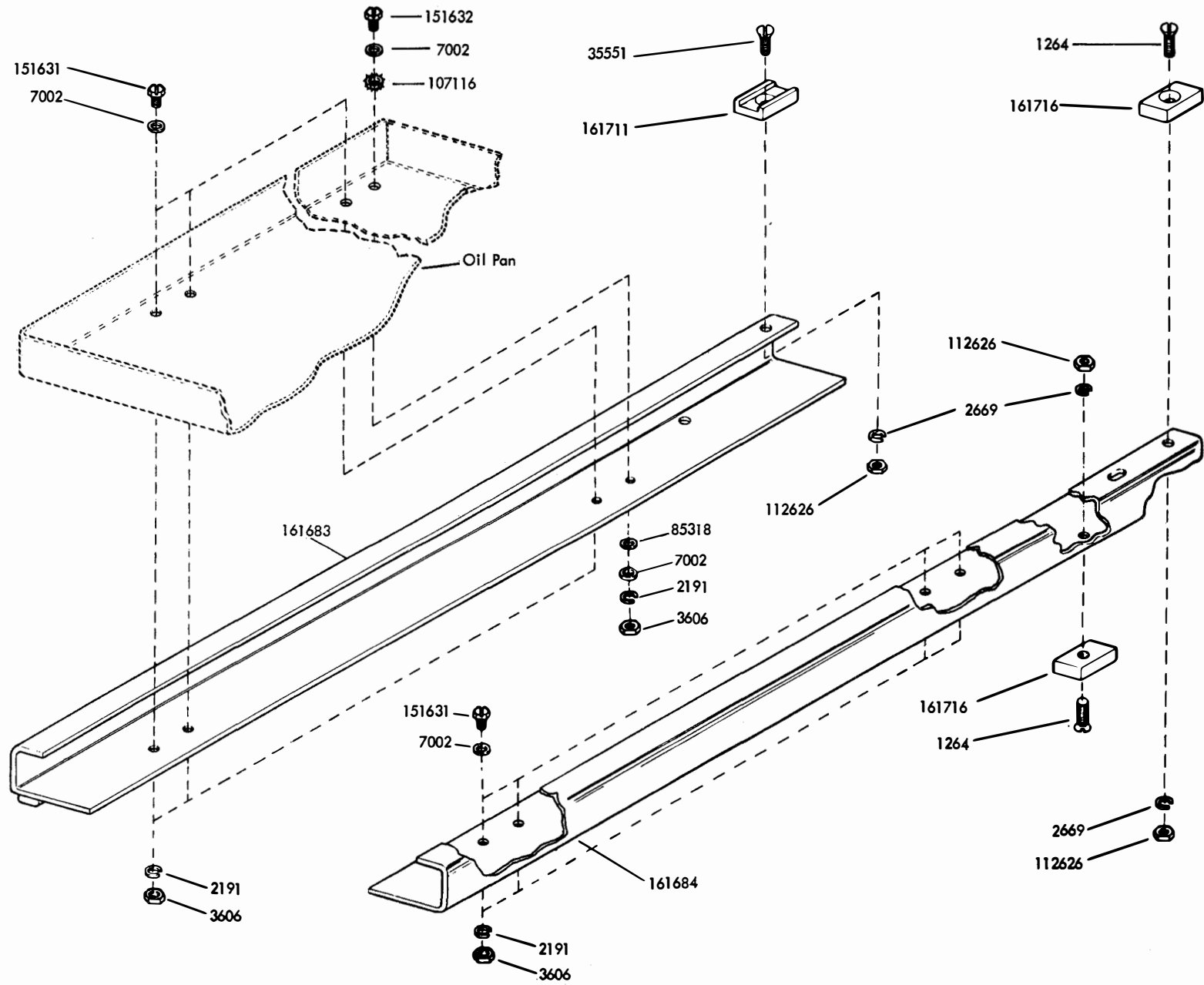


FIGURE 13. 161527 TAPE CONTAINER ASSEMBLY

FIGURE 14. 161678 MODIFICATION KIT TO INSTALL A MULTIPLE REPERFORATOR BASE (LMRB) IN A MODEL 28 CABINET (LBAC)



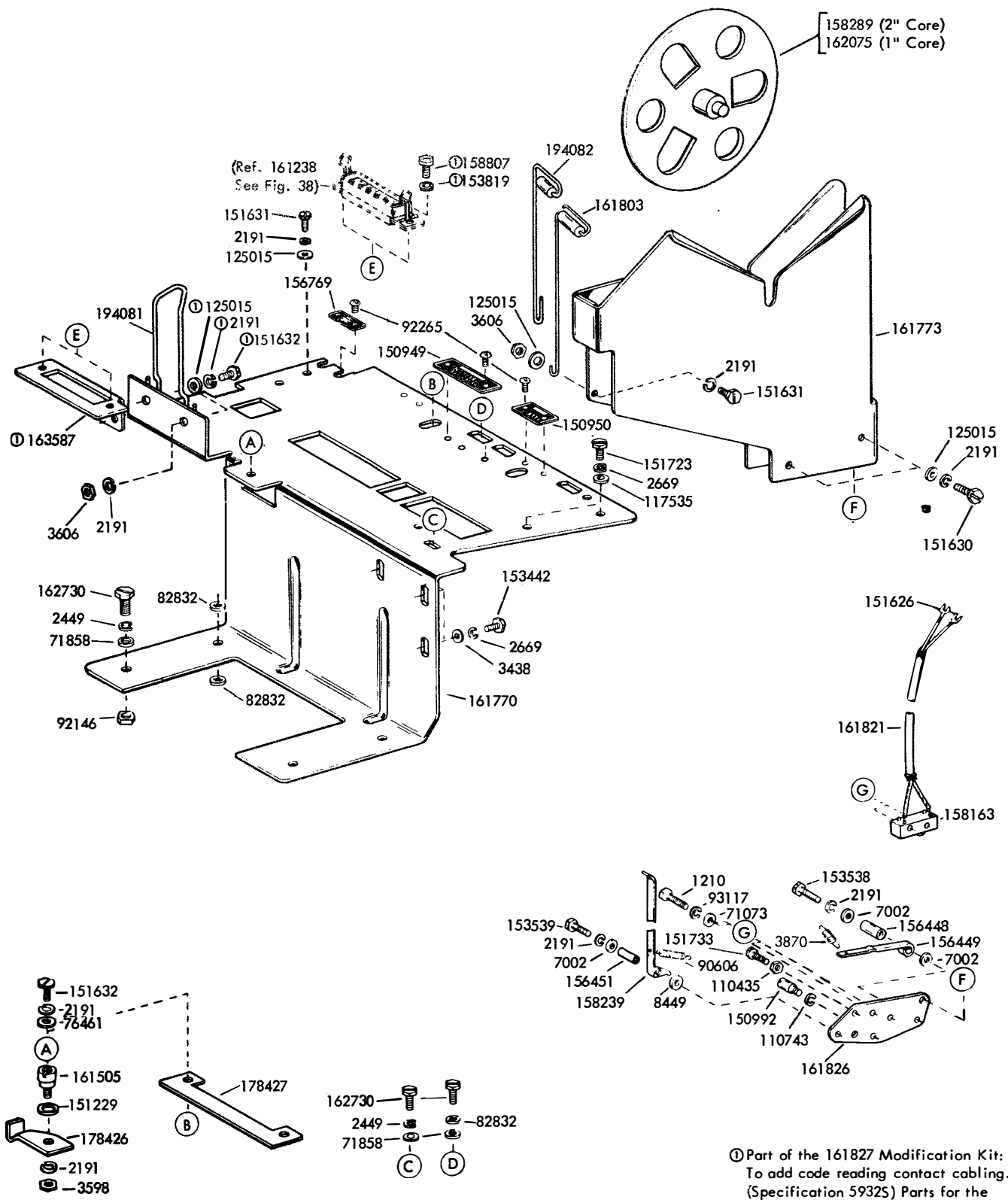


FIGURE 15. AUXILIARY REPERFORATOR BASE

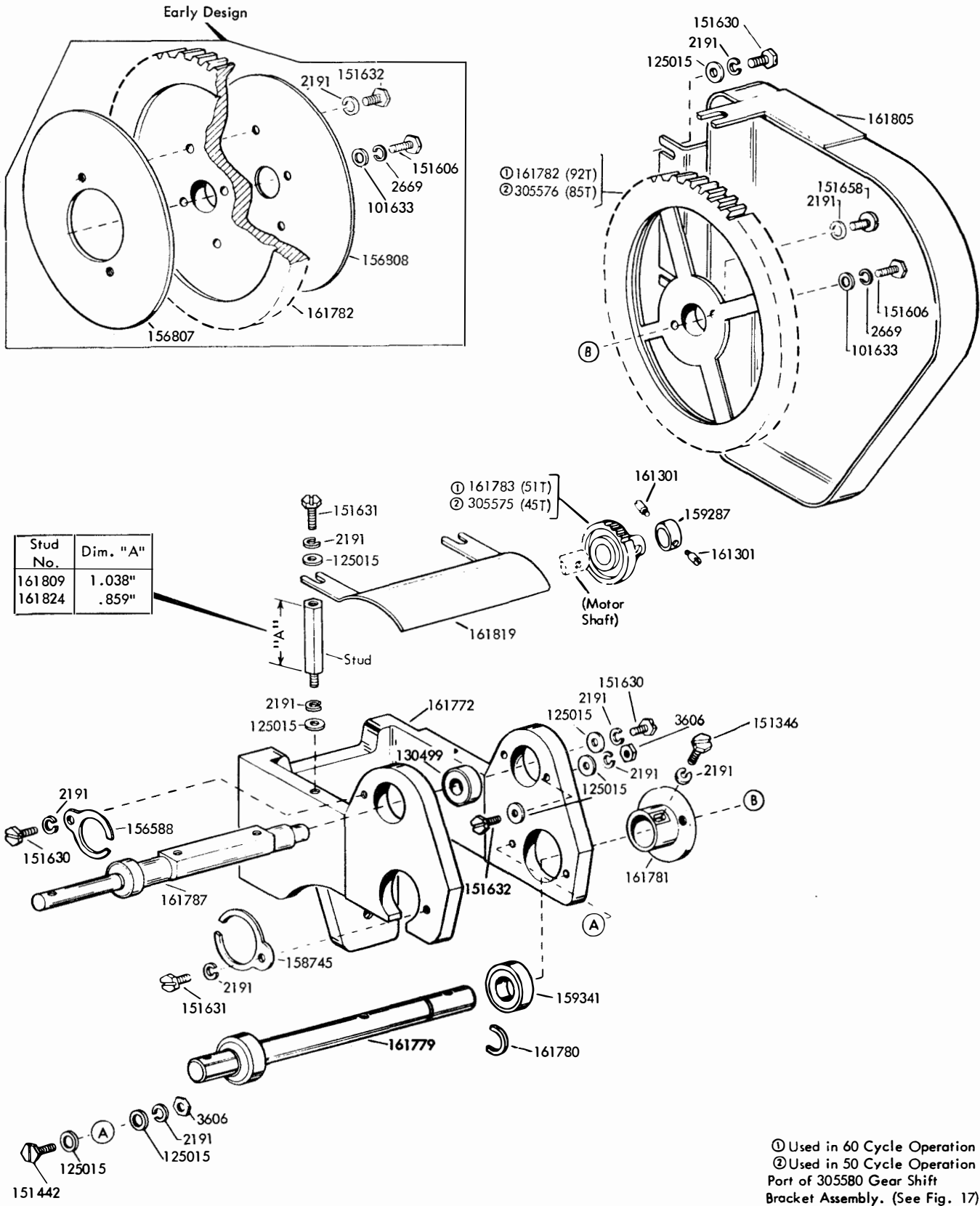
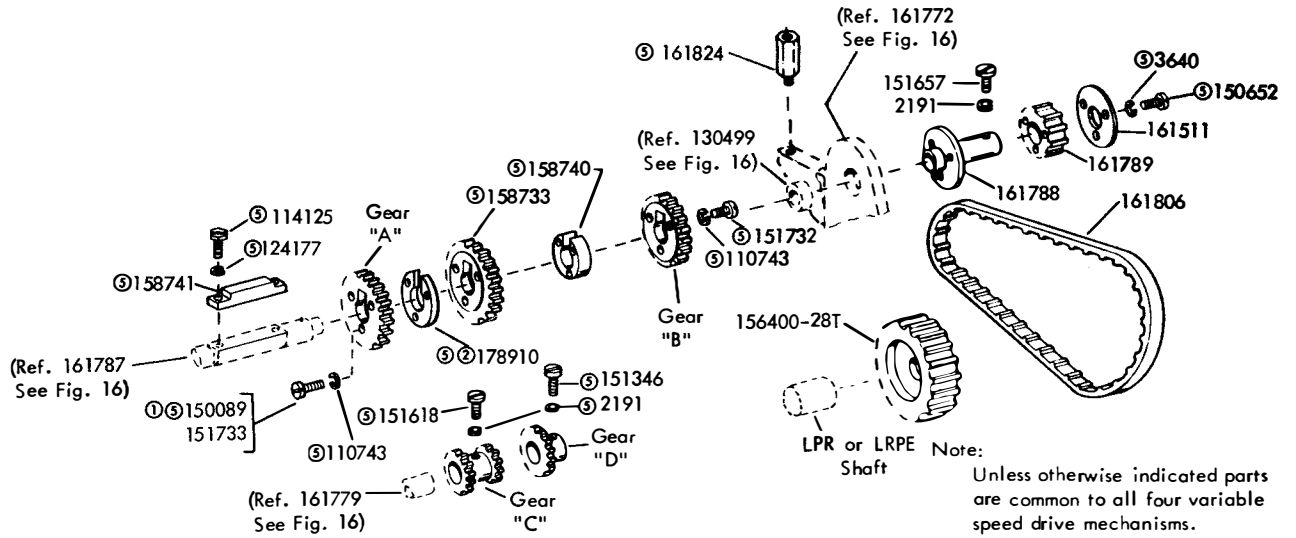
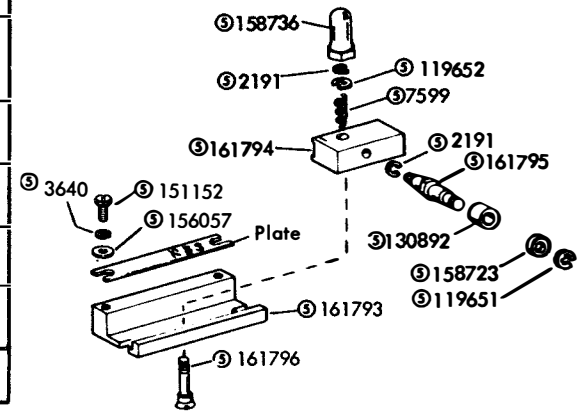
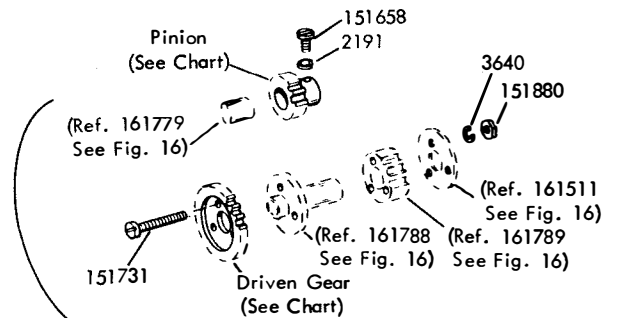


FIGURE 16. GEAR BRACKET MECHANISM

VARIABLE SPEED DRIVE ASSEMBLIES							
Assembly No.	W.P.M. or Baud	Motor Operation	Gear "A"	Gear "B"	Gear "C"	Gear "D"	Plate
161807	(WPM) 60-75-100	60 Cycle	158734	158716	158732	158712	161797
178869	(WPM) 60-67-100	60 Cycle	163262	158716	178870	158712	178885
192678	(BAUD) 45.5-50-75	60 Cycle	163262	179962	178870	179963	192680
③ 305580	(BAUD) 45.5-50-74.2	50 Cycle	163262	158716	178870	158712	178885
315536	(BAUD) 45.5-50-75	50 Cycle	⑤ 163262	⑤ 176071	⑤ 178870	⑤ 176072	⑤ 192680

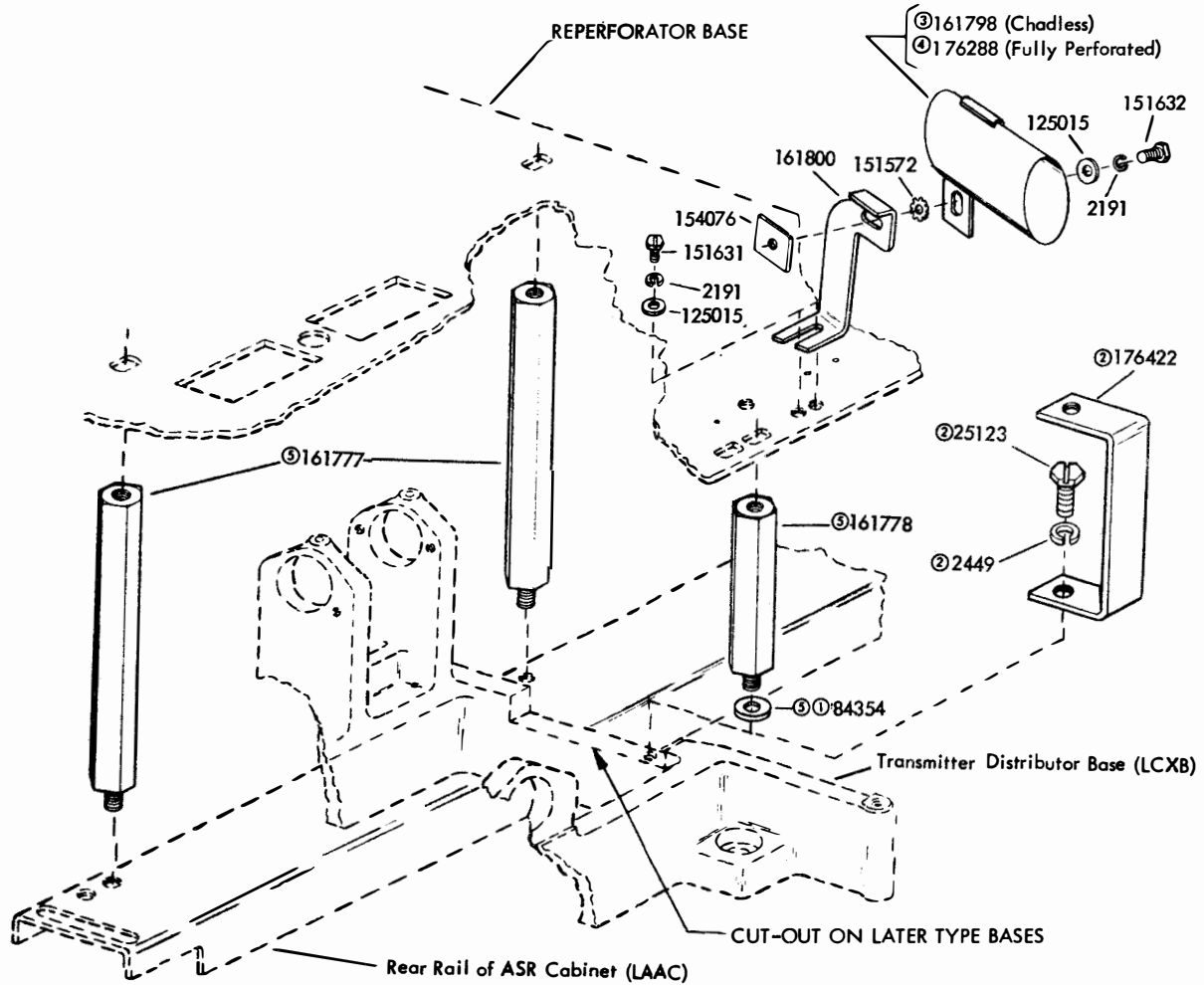


Single Speed Drive Gear Sets for Auxiliary Mounted LPR Sets					
Gear Set No.	Driven Gear	Pinion	Unit Code	W.P.M. (Nominal)	Baud
161811	161790-44T	161784-18T	7.42	60	45.45
161812	161791-47T	161785-24T	7.42	75	56.88
161813	161792-39T	161786-26T	7.42	100	74.2
173820	173822-49T	173821-20T	7.00	65	45.45
163448	163447-49T	163446-22T	7.00	71	50
163451	163450-40T	163449-27T	7.00	107	75
④ 319920	319919-51T	319918-25T	7.00	65	45.5
④ 319923	319922-52T	319921-28T	7.00	71	50
④ 319926	319925-26T	319924-21T	7.00	107	75



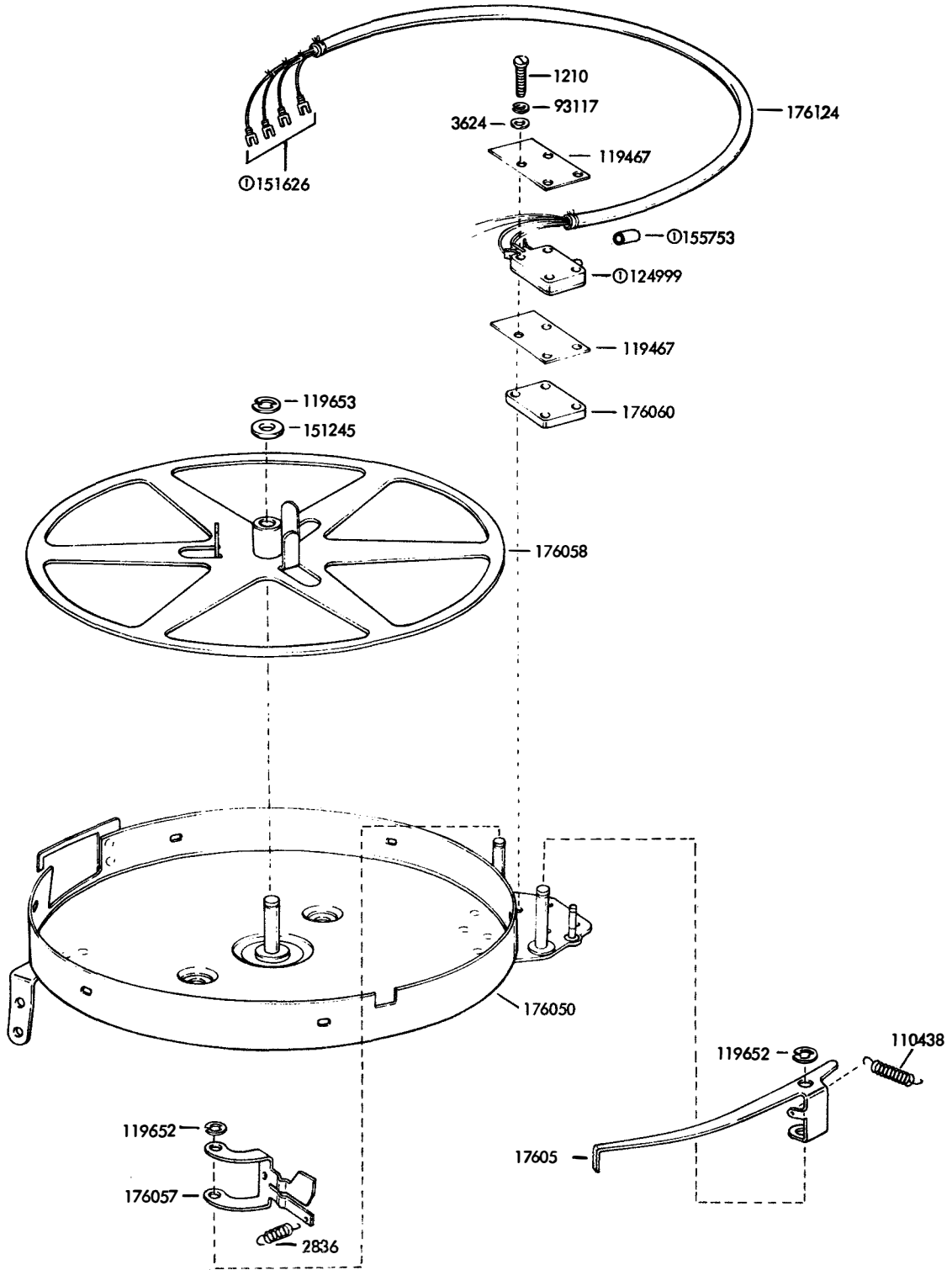
- ① Peculiar to the 161807
- ② Not used on the 161807
- ③ The 305580 is shown in part on Fig. 16
- ④ Used with 3600 RPM Motor
- ⑤ 315536 Modification Kit to provide Three speed gear shift

FIGURE 17. AUXILIARY REPERFORATOR BASE GEARING MECHANISM



- ① Not required when unit is equipped with base isolation parts.
 - ② Used on bases with cut-out
 - ③ Peculiar to 161815
 - ④ Peculiar to 176287
 - ⑤ Part of the 179492
- Specification 59295

FIGURE 18. 161815, 176287 AND 179492 MODIFICATION KITS TO MOUNT AN AUXILIARY TYPING REPERFORATOR BASE



① PART OF 176124

FIGURE 20. 174492 TAPE CONTAINER ASSEMBLY

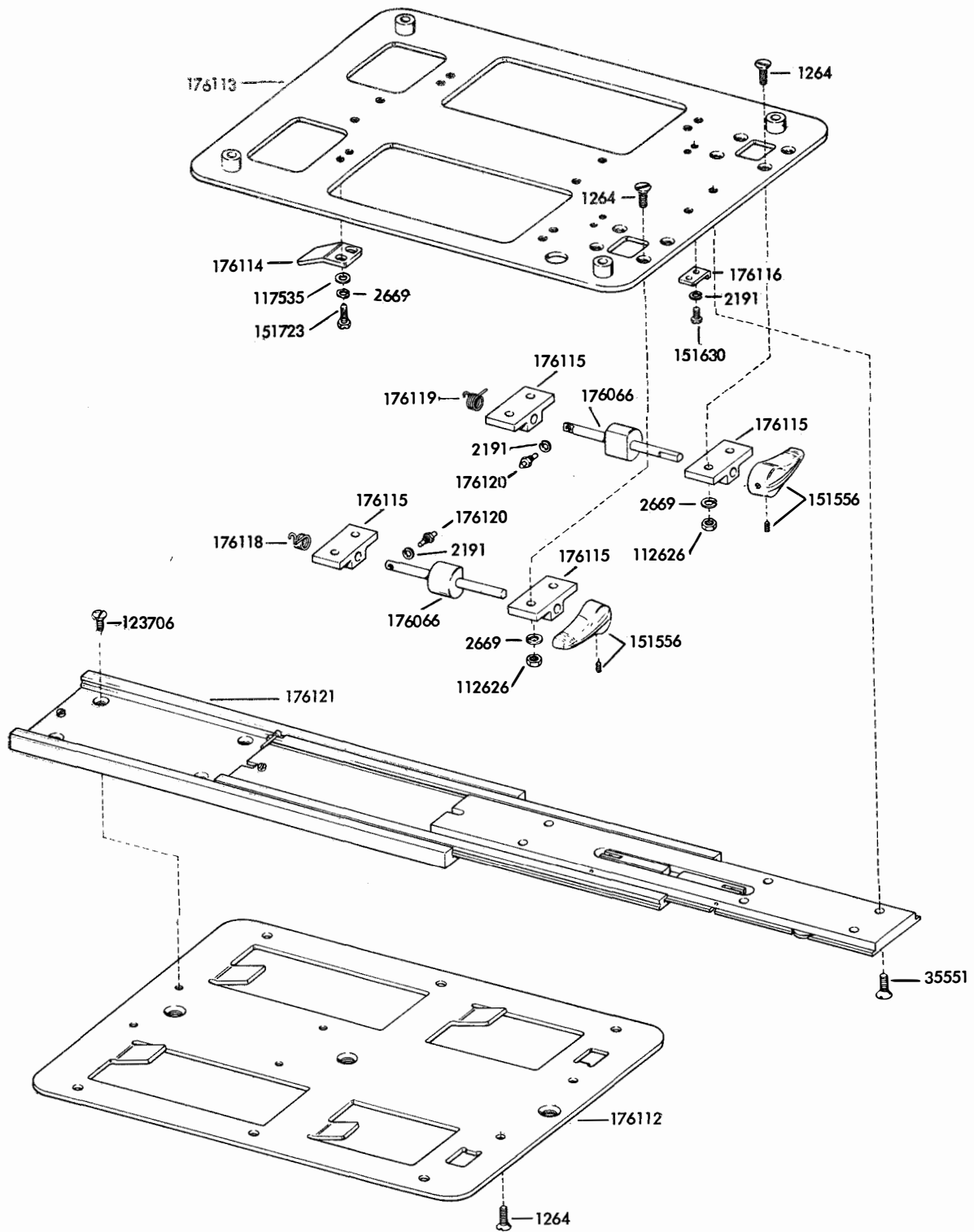


FIGURE 21. 174459 MODIFICATION KIT TO PROVIDE A SLIDING BASE

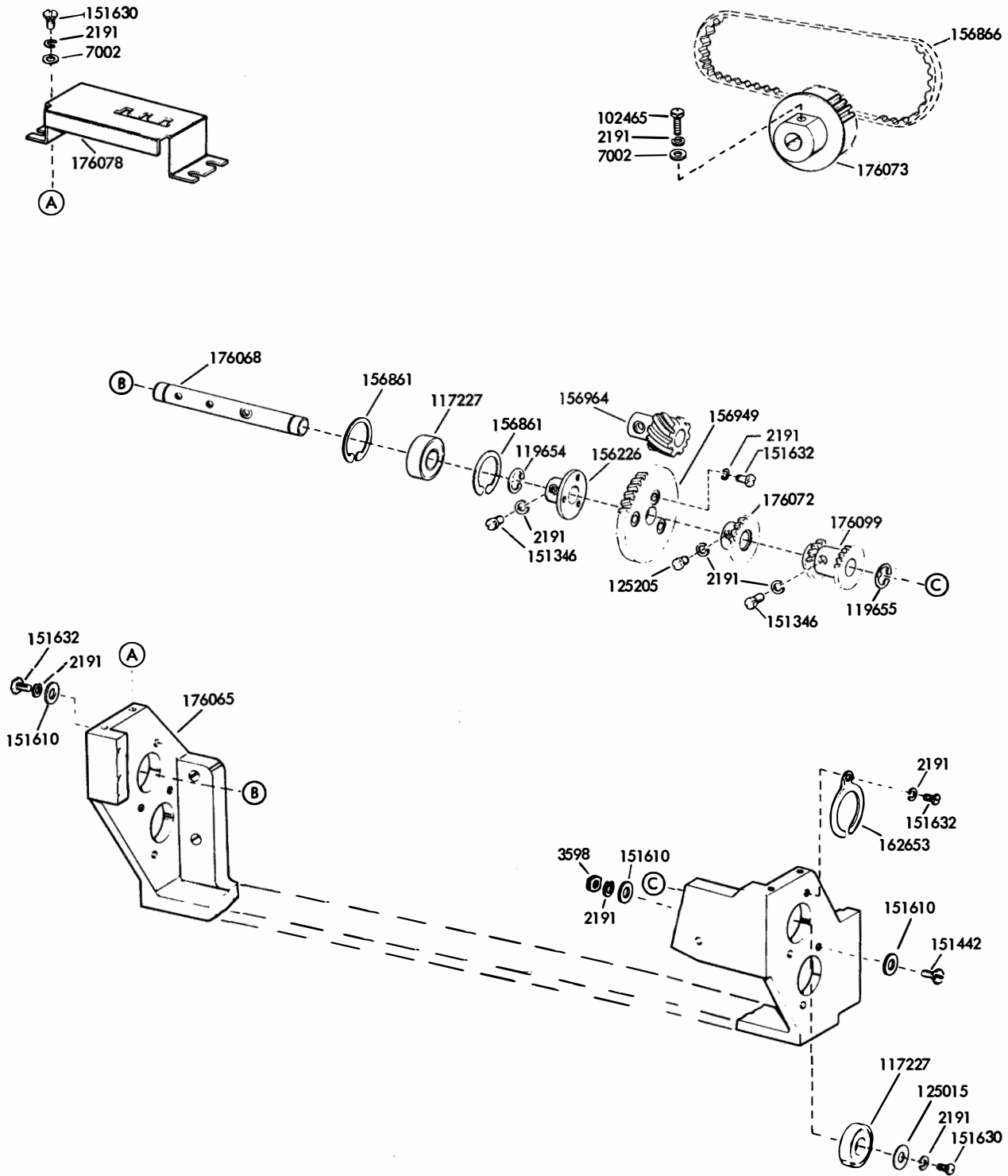


FIGURE 22. 176100 VARIABLE SPEED MECHANISM ASSEMBLY

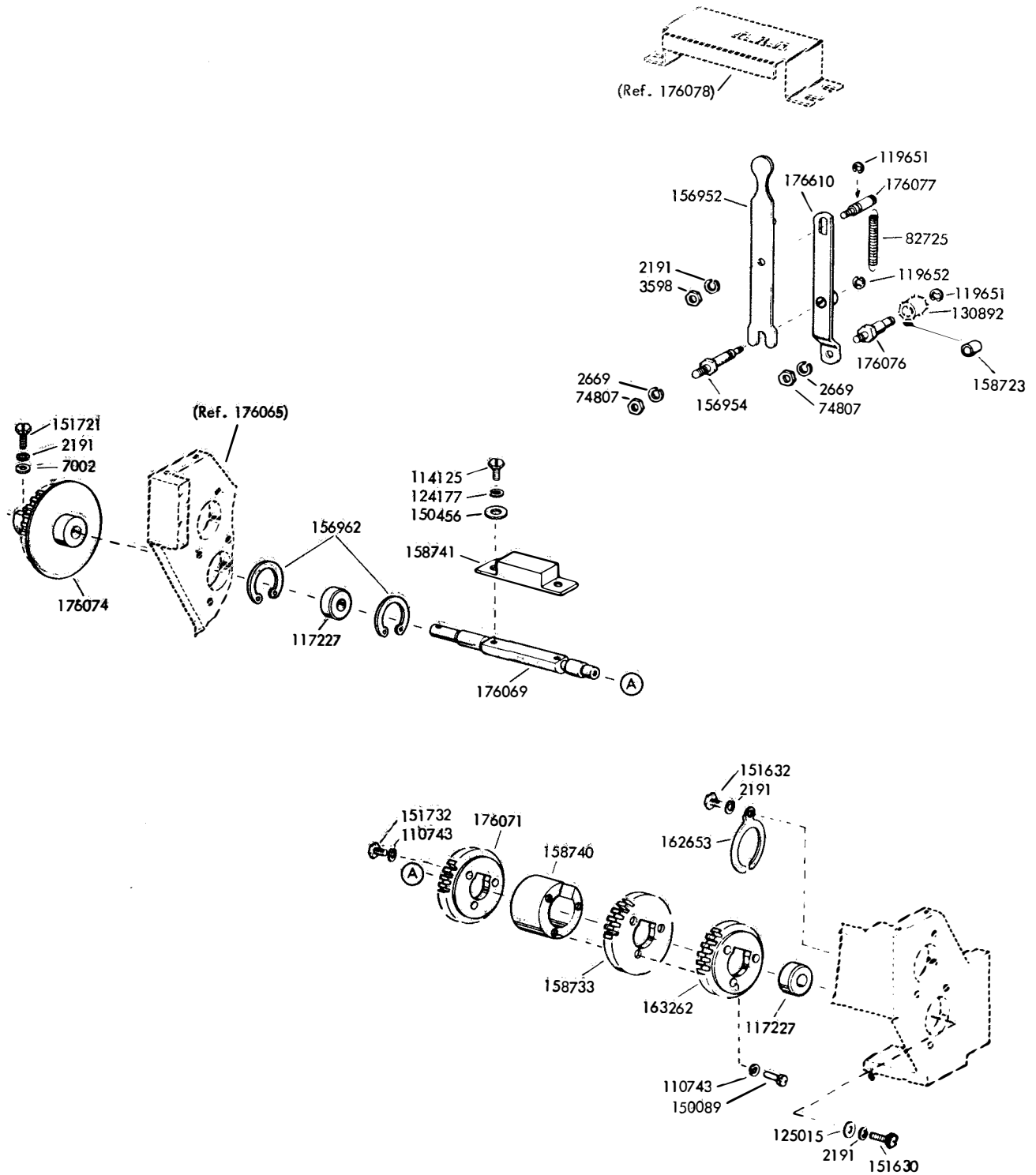
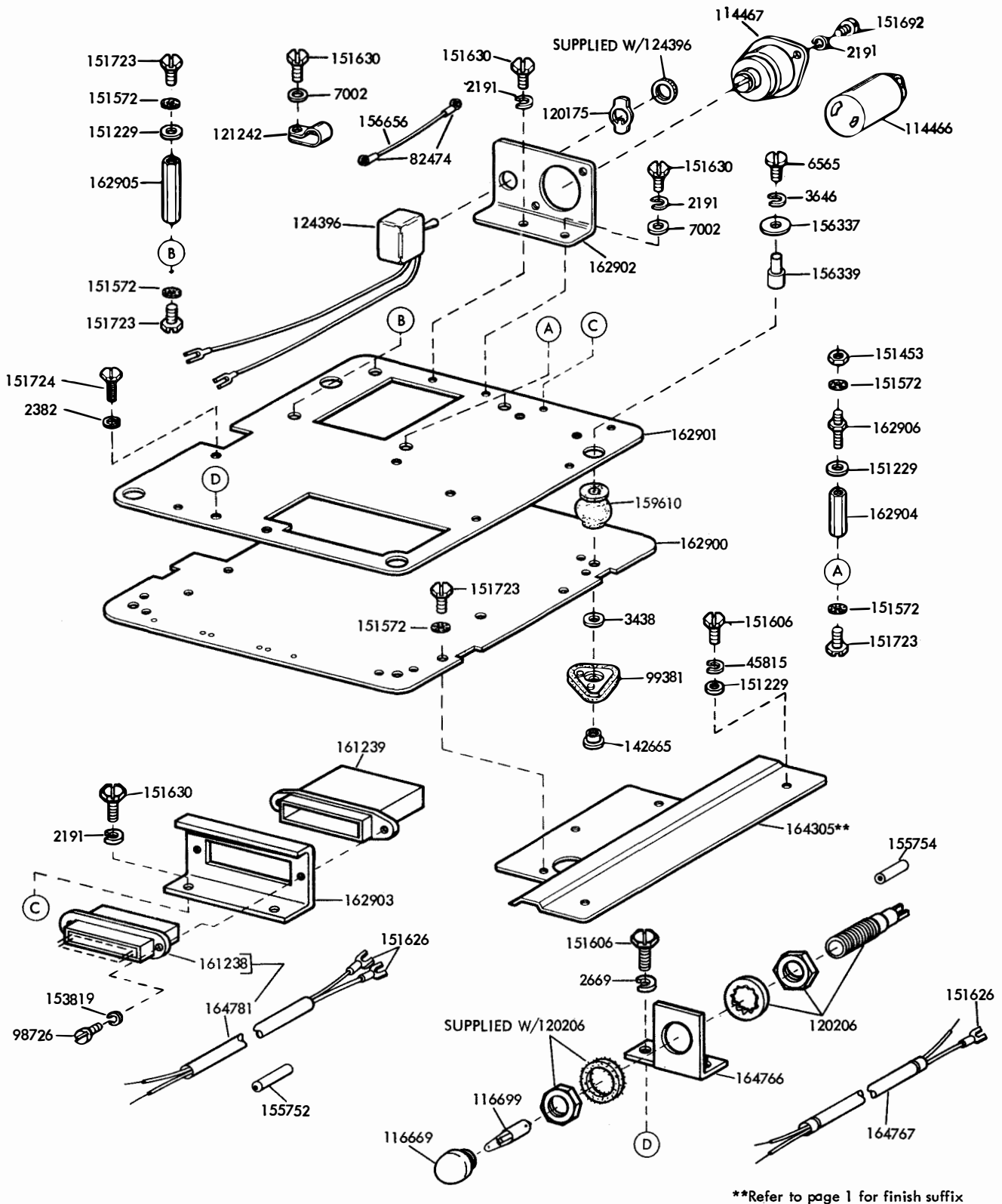
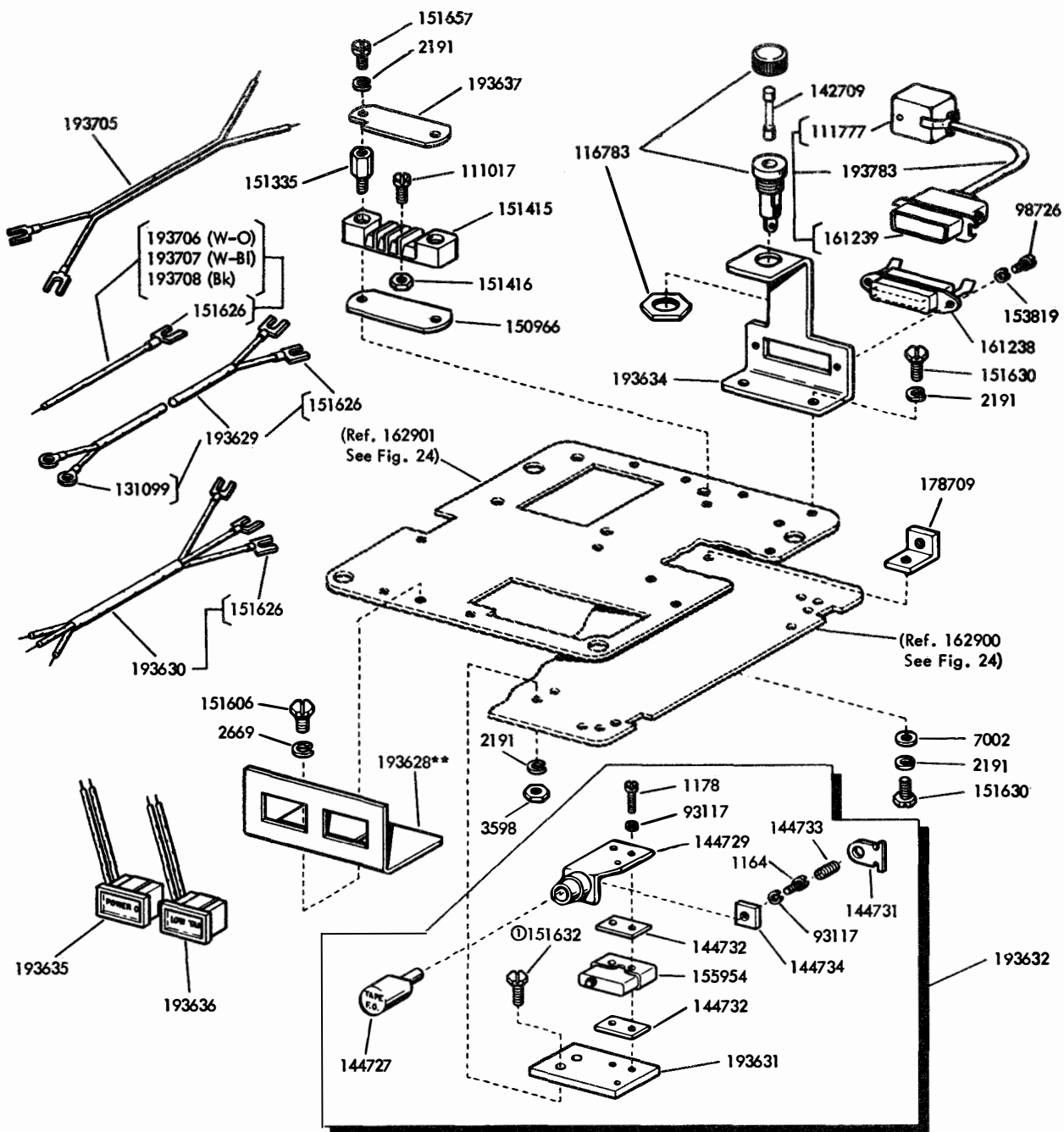


FIGURE 23. 176100 VARIABLE SPEED MECHANISM ASSEMBLY



**Refer to page 1 for finish suffix

FIGURE 24. MINIATURIZED BASE



⓪ Not Part of 193632

**Refer to page 1 for finish suffix

FIGURE 25. MINIATURIZED BASE

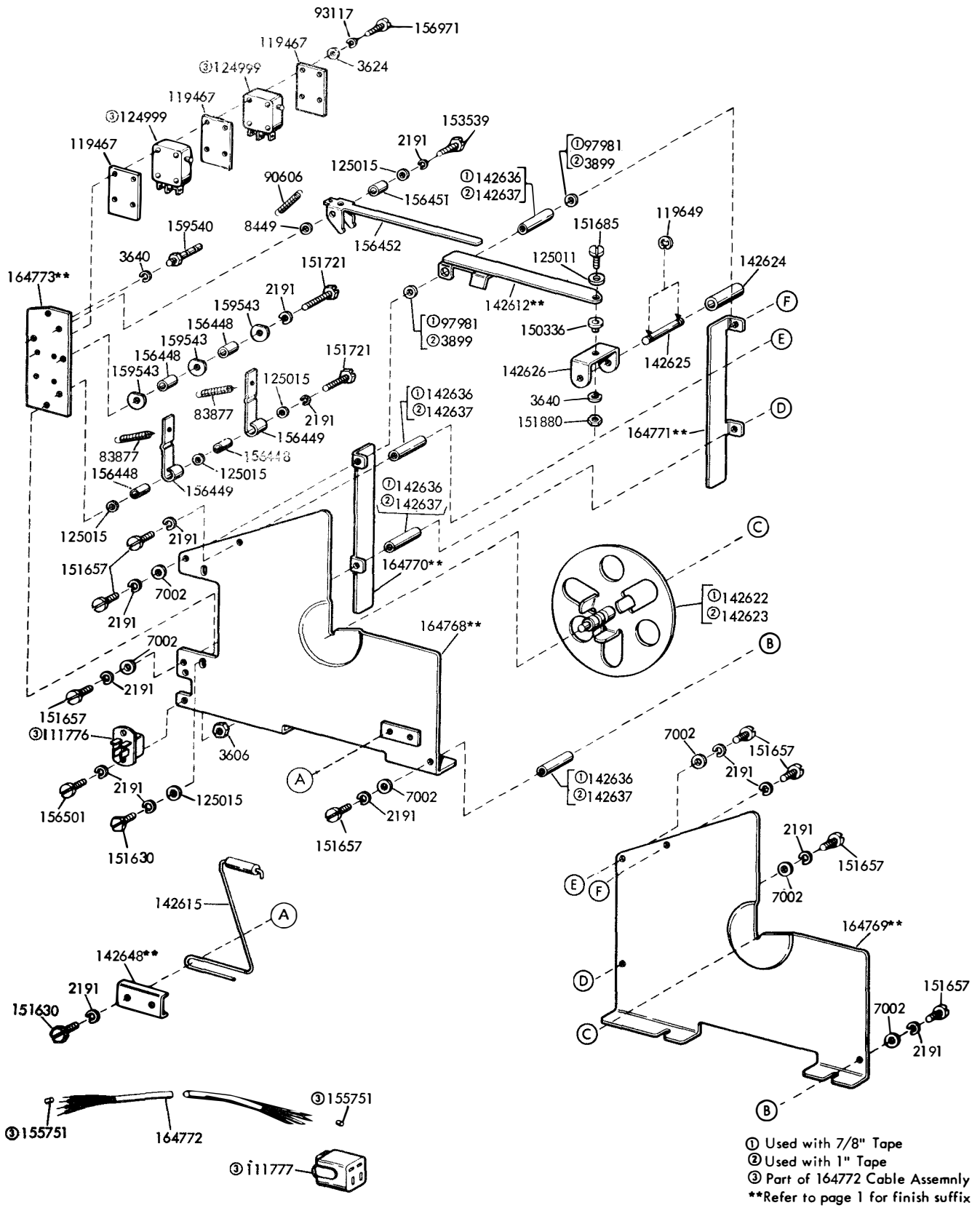
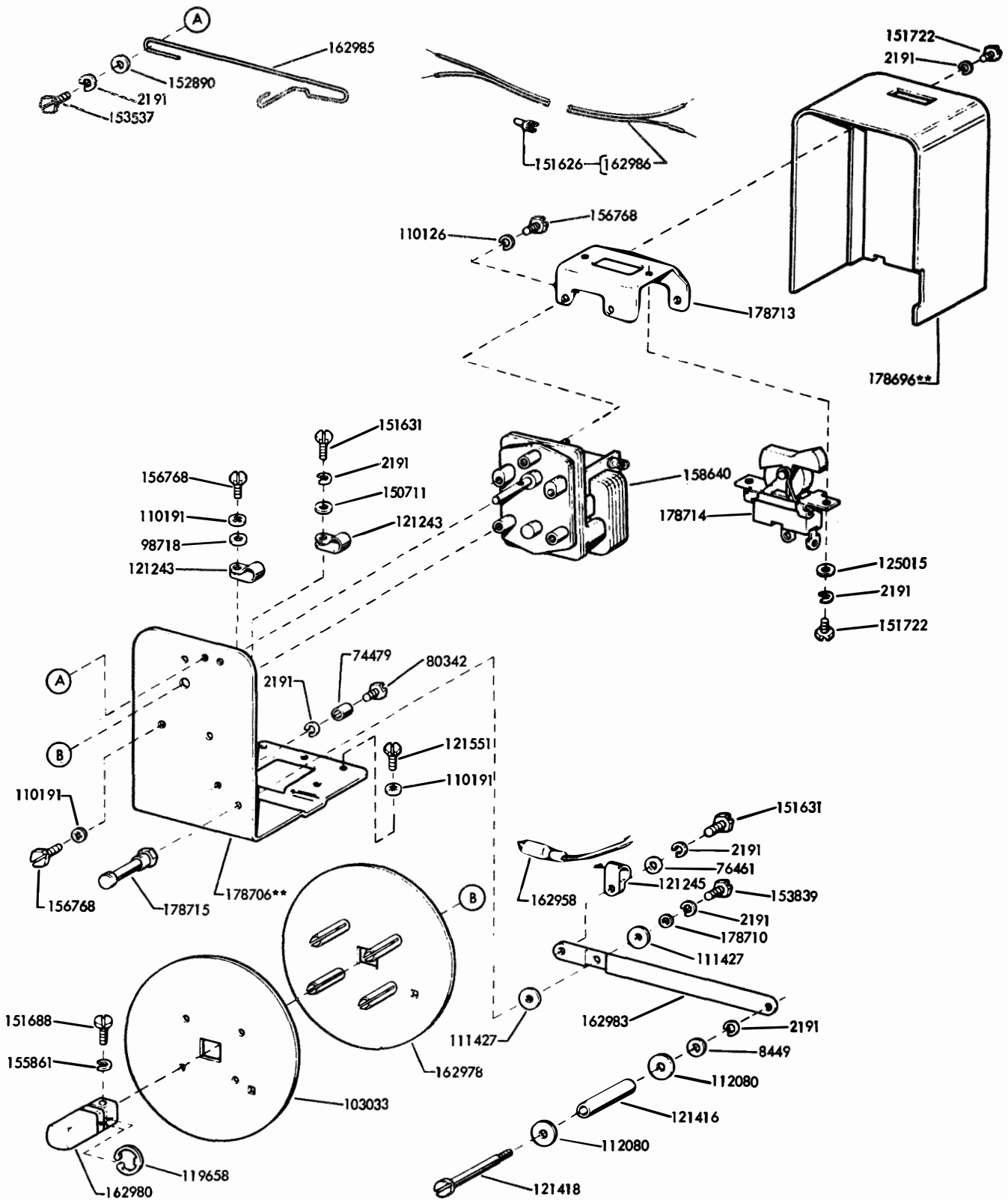
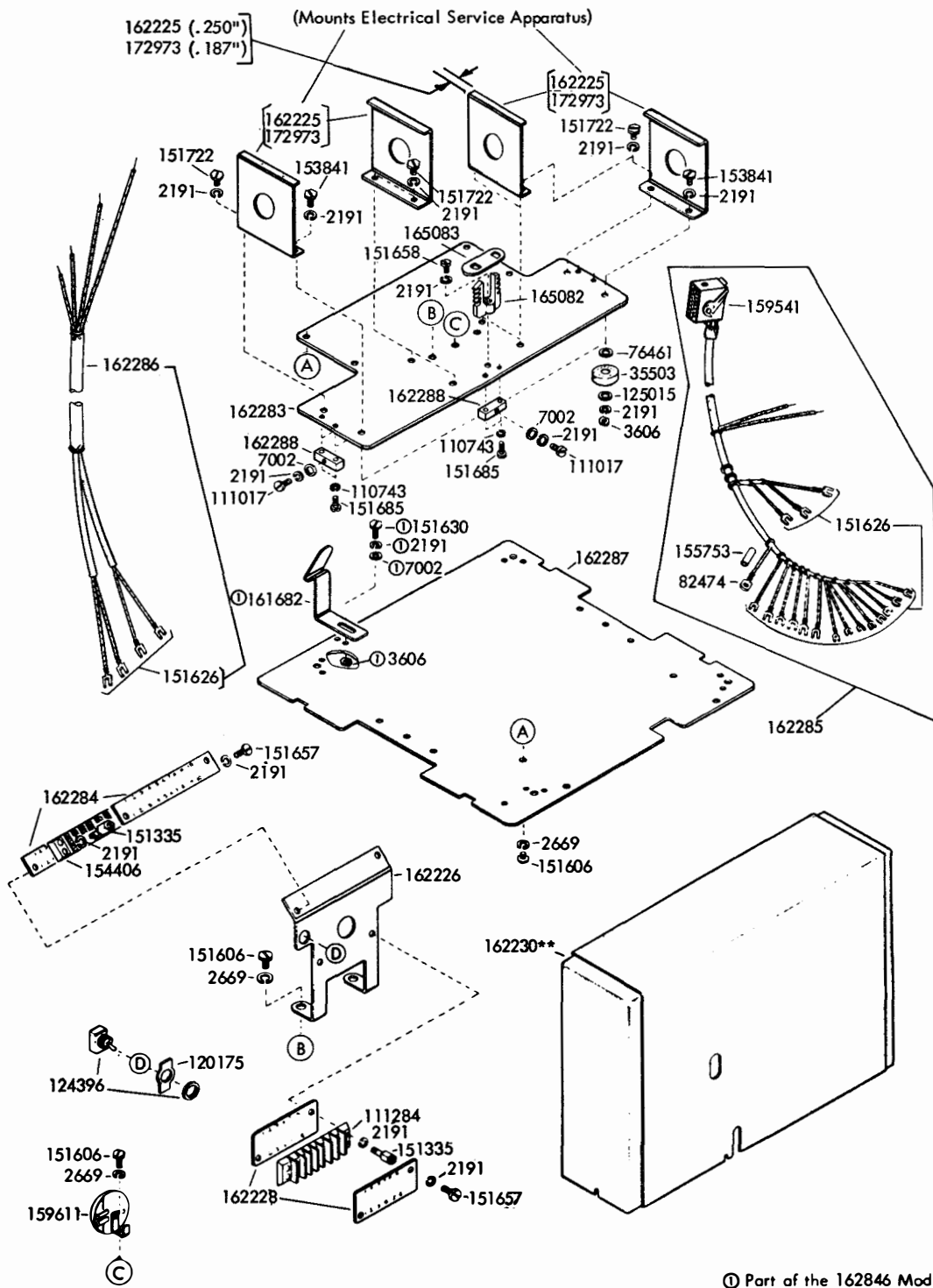


FIGURE 26. 164873** (7/8") AND 193794** (1") TAPE CONTAINER ASSEMBLIES WITH TAPE-OUT SWITCH



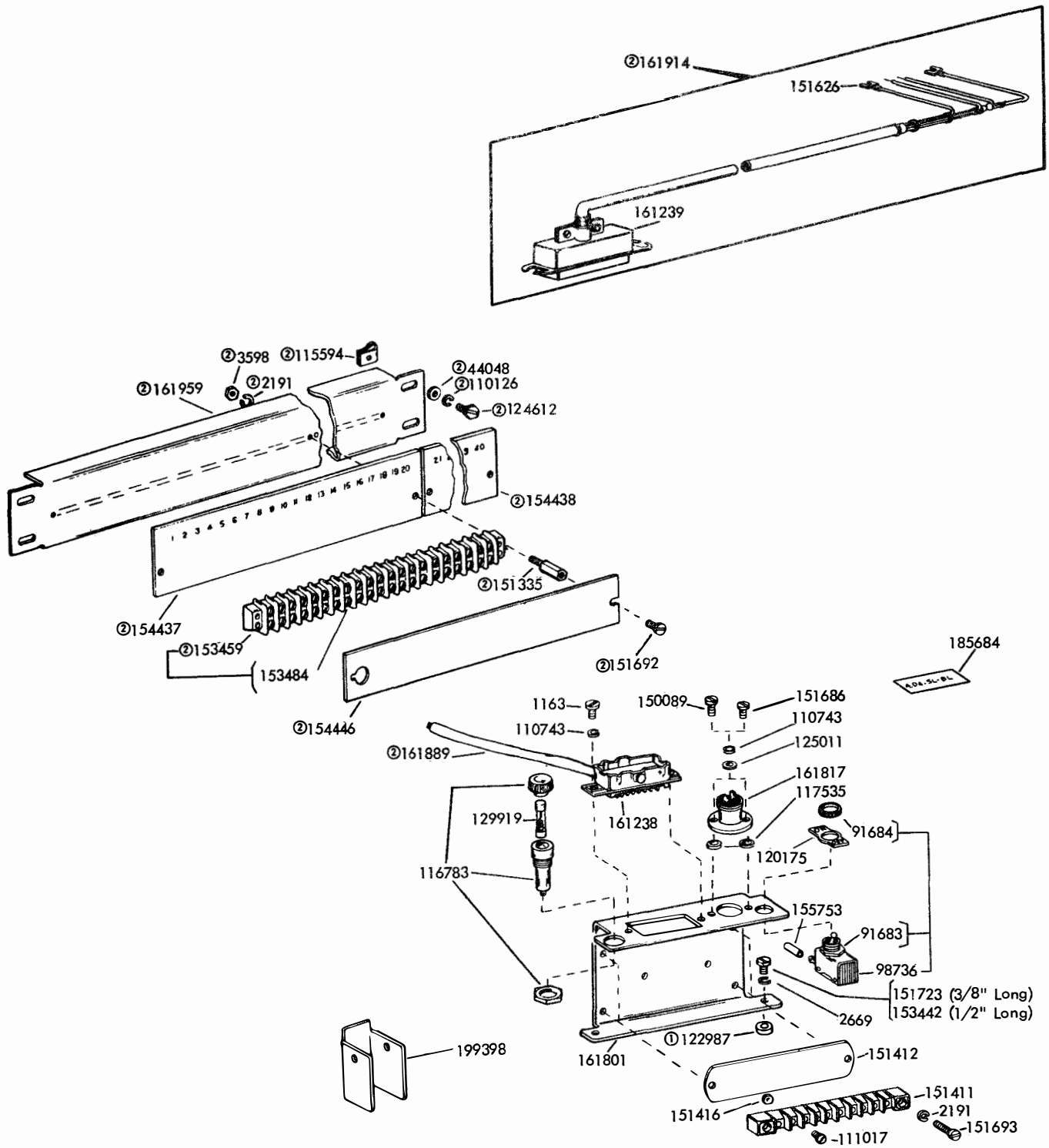
**Refer to page 1 for finish suffix

FIGURE 27. 162957** TAPE WINDER ASSEMBLY



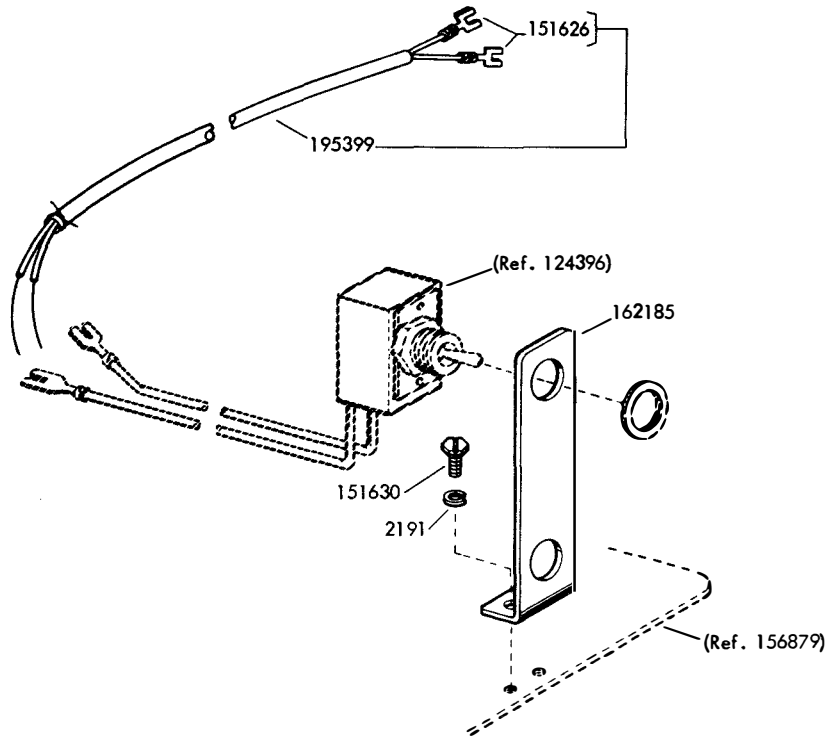
Ⓧ Part of the 162846 Modification Kit:
To provide a cover clip.
**Refer to page 1 for finish suffix

FIGURE 28. TYPING REPERFORATOR BASE WITH EXTENSION



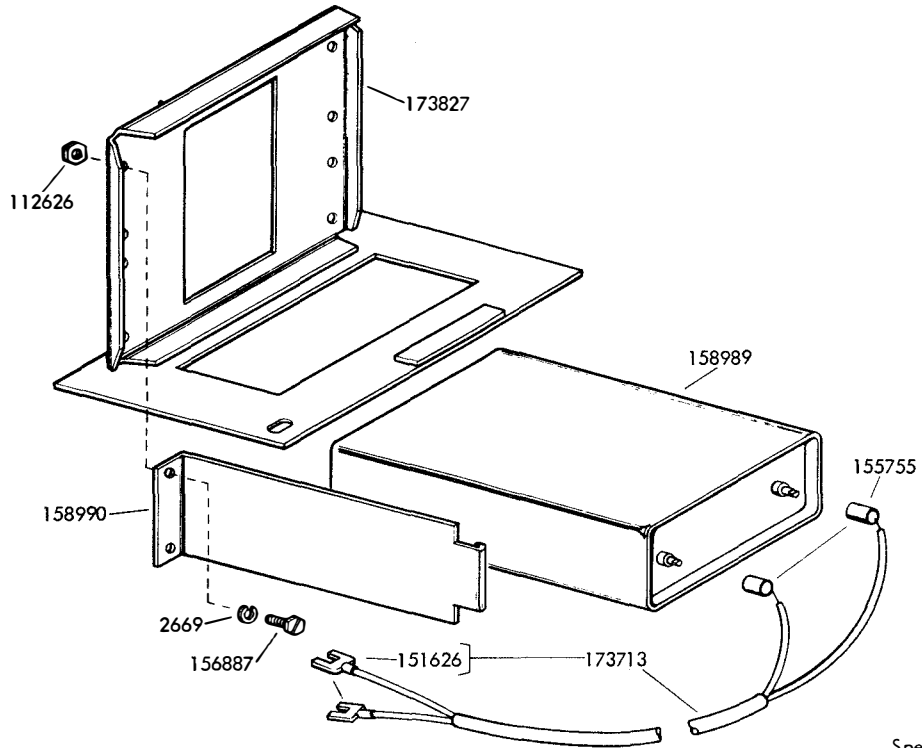
- ① Used with the 153442 Screw
- ② Part of the 161827 Modification Kit; To add code reading contact cabling. (Specification 59325) Parts for the 161827 are also shown on Fig. 15.

FIGURE 29. ELECTRICAL COMPONENTS



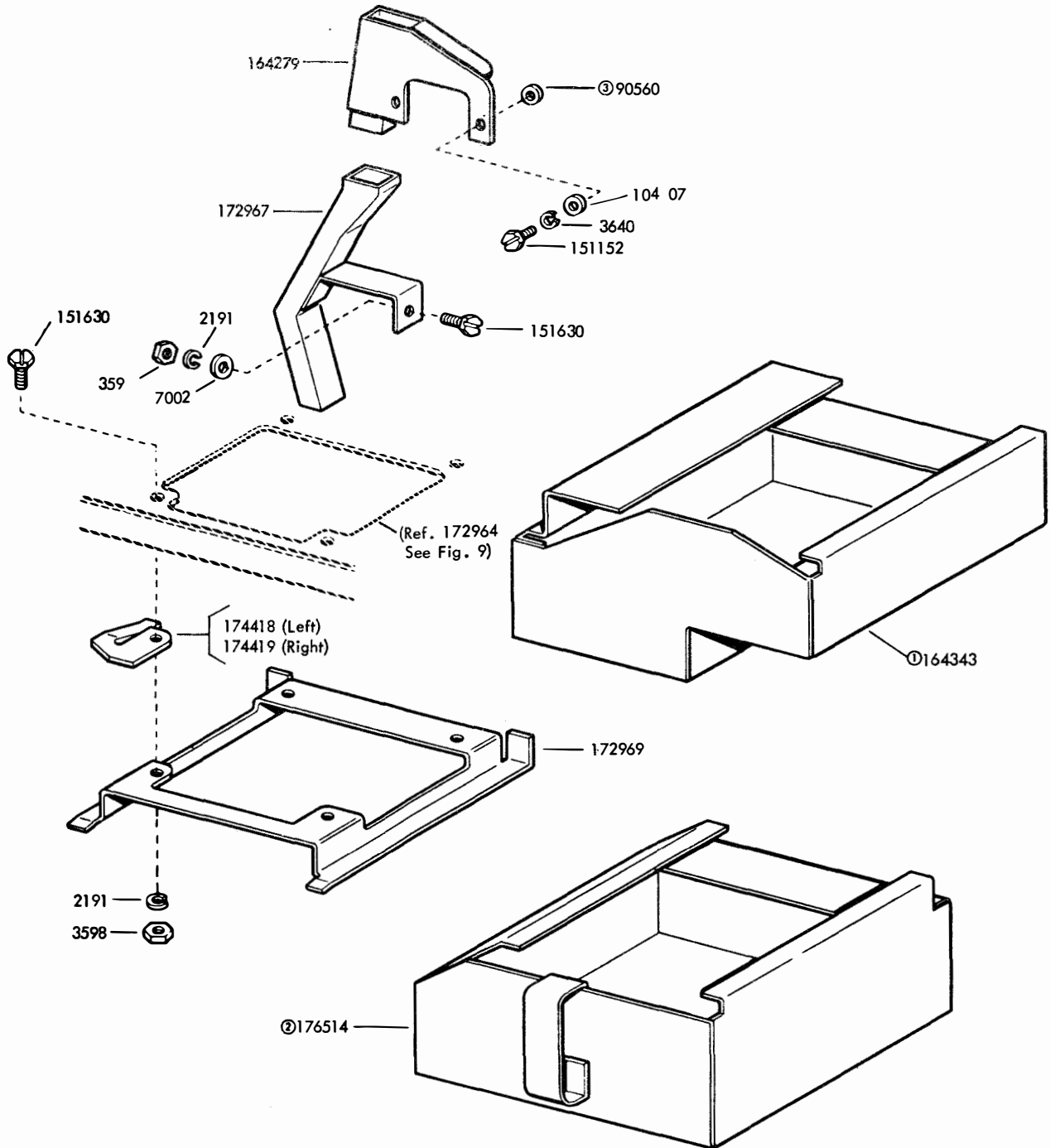
Specification 501555

FIGURE 30. 195388 MODIFICATION KIT TO RELOCATE POWER SWITCH FROM THE REAR TO THE FRONT



Specification 50,057S

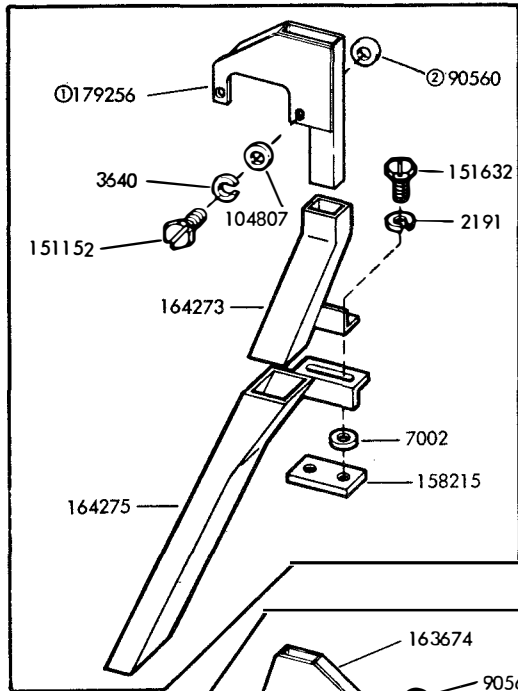
FIGURE 31. 173484 MODIFICATION KIT TO PROVIDE POWER FACTOR CORRECTION FOR (LMRB) BASE



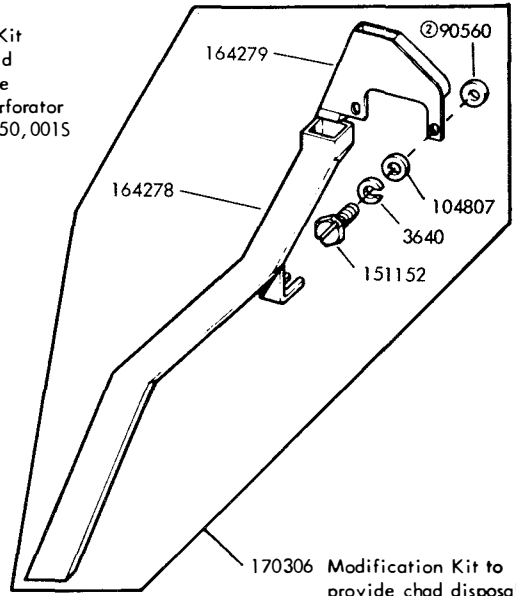
- ① Peculiar to 164341
- ② Peculiar to 176542
- ③ Discard if Punch Block face is flat.

Specification 50,0 65

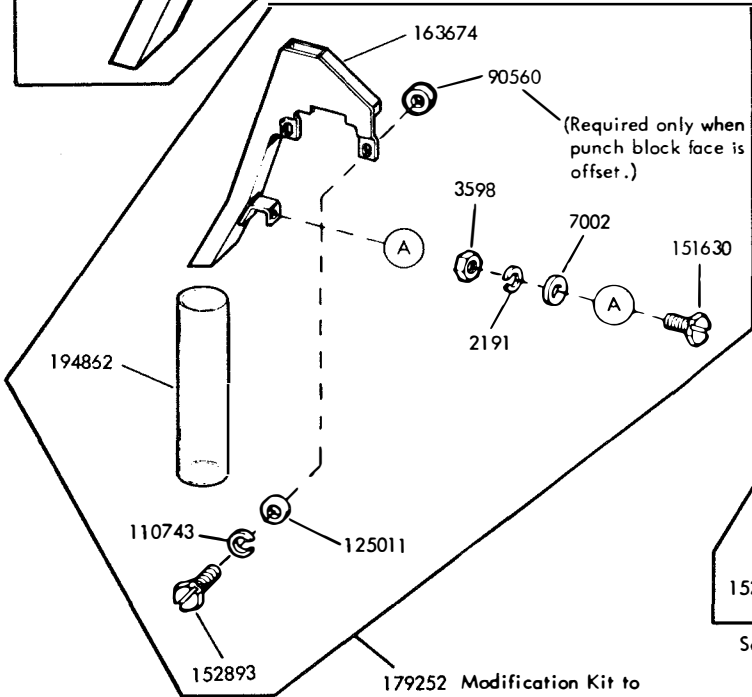
FIGURE 32. 164341 AND 176542 MODIFICATION KITS TO PROVIDE CHAD DISPOSAL ON MULTIPLE REPERFORATOR BASES



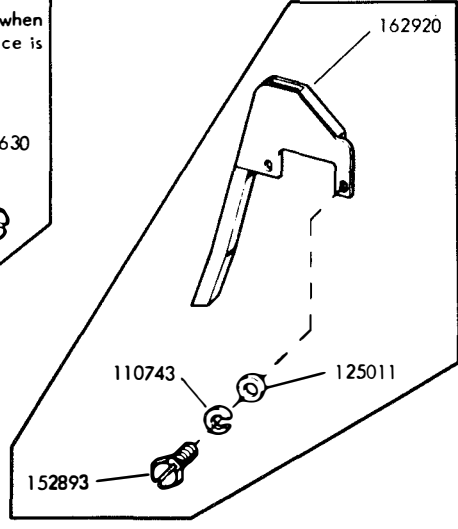
164272 Modification Kit to provide chad disposal for the auxiliary reperforator Specification 50,0015



170306 Modification Kit to provide chad disposal for the keyboard reperforator Specification 50,0015



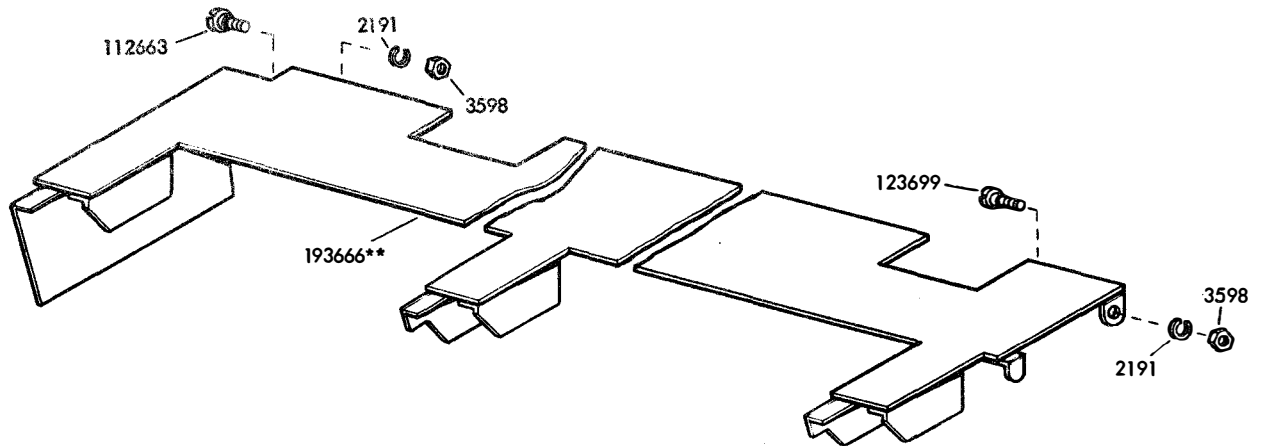
179252 Modification Kit to provide chad disposal for a self contained unit Specification 50,1095



Self contained, miniaturized unit application.

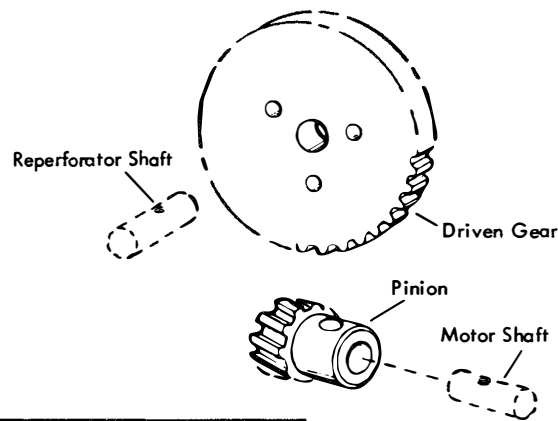
- ①The 179256 chute is also used for the L/H RT set.
- ②The 90560 shim mounts between the chute and the punch block when the punch block face is offset. When the punch block face is flat the 90560 shim mounts between the chute and 104807 flat washer.

FIGURE 33. MODIFICATION KITS TO PROVIDE CHAD DISPOSAL



Specification 50, 1915

FIGURE 34. 193667 MODIFICATION KIT TO PROVIDE A SPROCKET GUARD FOR MULTIPLE REPERFORATOR BASES



Speed Change Gear Sets for Non-typing Reperforator					
Set Number	Pinion	Driven Gear	(Nominal) WPM	Unit Code	Baud
①164784	164782-6T	164783-52T	120	8.5	102.9
②193620	192791-5T	192790-49T	53	8.61	46.15
②193621	192789-6T	192788-47T	66	8.61	57.69
②193643	193641-6T	193642-40T	78.7	8.00	67.8
②193678	193677-8T	193676-42T	100	11.0	110
②193681	193680-5T	193679-39T	67	11.0	73.7
③ 199896	199894-13T	199895-68T	100	8.5	85
② ③308197	308195-10T	308196-41T	60	8.5	50
② ③308206	308204-15T	308205-67T	67	8.5	56.86

- ① Reperforator clutch must be 2 cycle design
- ② Reperforator clutch must be 1 cycle design
- ③ Used with 50 cycle-3000 RPM Motor

FIGURE 35. GEAR CHART FOR SELF-CONTAINED NON-TYPING REPERFORATOR

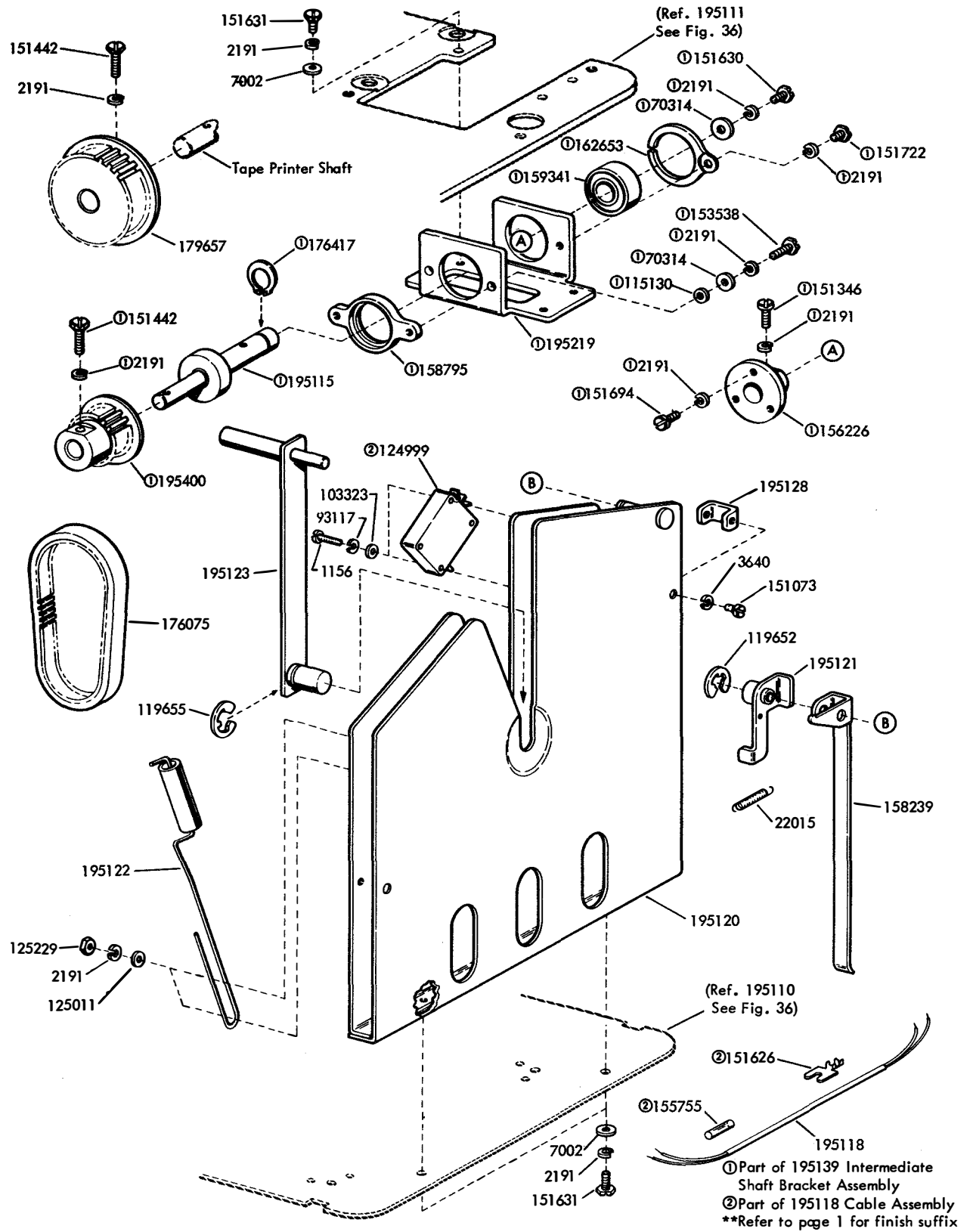


FIGURE 37. TAPE PRINTER BASE-CONTINUED (Miniaturized)

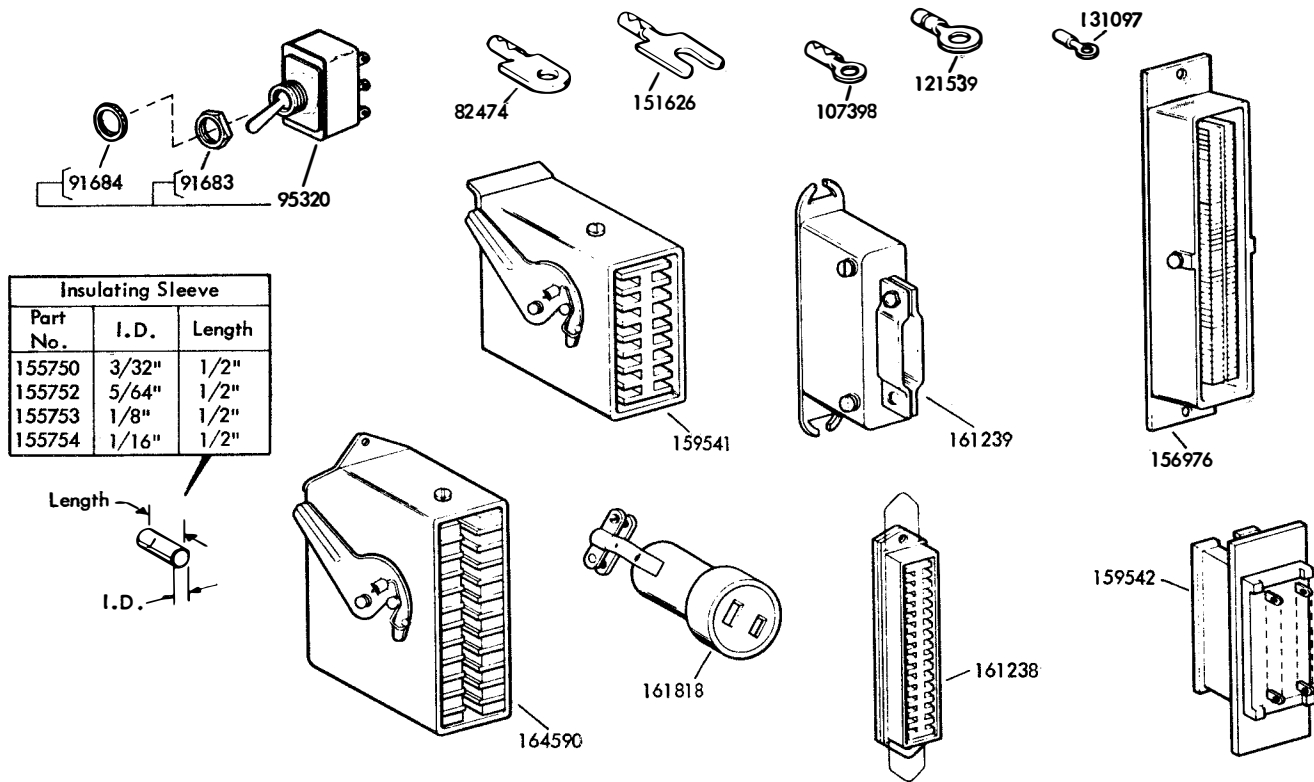
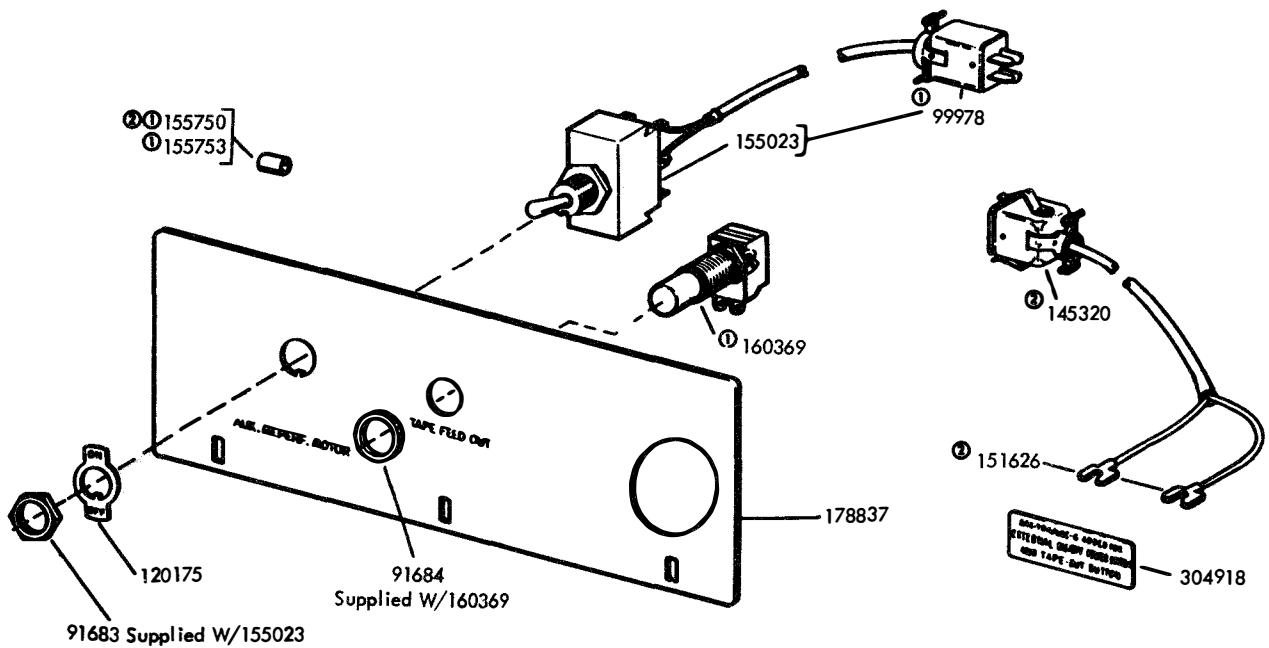


FIGURE 38. CABLE COMPONENTS



- ① 312475 Cable Assembly
- ② 312476 Cable Assembly

FIGURE 39. 178838 MODIFICATION KIT TO RELOCATE POWER SWITCH FROM AUXILIARY BASE TO OUTSIDE OF CABINET

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1156	Screw, 2-56 x 9/16 Fil 37	84354	Washer, Flat 20	116699	Lamp, 1/25 Watt Neon 26
1163	Screw, 4-40 x 3/16 Fil 31	84551	Jumper, 5-1/4" Black 11, 13	116783	Holder, Fuse 6, 7, 21, 27, 31, 36
1164	Screw, 2-56 x 3/16 Fil 27	85318	Washer, Leather 16	117227	Bearing, Ball 24, 25
1178	Screw, 2-56 x 7/16 Fil 15, 27	90560	Washer, Flat 33, 34	117535	Washer, Flat 17, 21, 23, 31
1210	Screw, 2-56 x 5/8 Fil 17, 22	90606	Spring 17, 28	118511	Fuse, 1/8 Amp 7
1245	Screw, 10-32 x 1" Fil 36	90790	Washer, Flat 8	118589	Switch, Black Pushbutton 7
1264	Screw, 10-32 x 1/2 Flat 16, 23	91683	Nut, 15/32-32 Hex 6, 7, 11, 13, 31, 38, 39	118609	Holder, Fuse 36
2191	Washer, Lock 3 to 21, 23 to 37	91684	Nut, 15/32-32 Ring 6, 7, 11, 13, 31, 38, 39	119467	Insulator .032" Thk 8, 15, 22, 28
2263	Nut, 8-32 Hex 21	91768	Jumper, 3-1/2" Black 6, 7, 21, 36	119634**	Button, Plug 36
2382	Washer, Lock 26	92146	Nut, 1/4-20 Hex 17	119649	Ring, Retaining 28
2449	Washer, Lock 4, 6, 11, 13, 17, 20.	92260	Washer, Lock 10, 21	119651	Ring, Retaining 10, 19, 25
2669	Washer, Lock 3 to 7, 9 to 14, 16, 17, 18, 21, 23, 25 to 27, 30, 31, 32, 36	92265	Screw, 2-56 x 1/8 Rd 17	119652	Ring, Retaining 19, 22, 25, 37
2836	Spring 22	93108	Washer, Lock 11, 13	119653	Ring, Retaining 10, 22
3438	Washer, Flat 4, 5, 6, 9, 13, 14, 17, 21, 26, 36	93117	Washer, Lock 8, 15, 17, 22, 27, 28, 37	119654	Ring, Retaining 9, 24
3598	Nut, 6-40 Hex 6, 7, 10 to 13, 17, 21, 24, 25, 27, 31, 33 to 35	95320	Switch, SP-ST Toggle 7, 11, 13, 38	119655	Ring, Retaining 9, 24, 37
3606	Nut, 6-40 Hex 16, 17, 18, 28, 30	97981	Spacer 28	119658	Ring, Retaining 29
3624	Washer, Flat 8, 15, 22, 28	98659	Bracket, Switch 3	120175	Plate, ON-OFF 3, 6, 7, 11, 13, 26, 30, 31, 39
3640	Washer, Lock 3, 5, 6, 8, 15, 19, 28, 33, 34, 36, 37	98718	Washer, Flat 29	120206	Socket, Lamp 26
3646	Washer, Lock 6, 21, 26, 36	98726	Screw, 3-48 x 1/4 Fil 11, 13, 26, 27	121242	Clamp, 1/8 ID Cable 6, 26, 36
3649	Washer, Flat 36	98736	Switch, SP-ST Toggle 31	121243	Clamp, 3/16 ID Cable 8, 29
3870	Spring 17	99381	Foot, Rubber 6, 21, 26, 36	121244	Clamp, 1/4 ID Cable 4, 7, 21
3899	Spacer, .188" Thk 28	99978	Connector, 4 Pt Plug 39	121245	Clamp, 5/16 ID Cable 6, 29
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171972	Connector, Green Insulated 11	176288	Guide, Tape 20	192680	Plate, Index 19
171973	Connector, Black Insulated 11	176295	Gear Set, 107WPM 5	192684	Plate, Clamp 10
172964	Base 11, 33	176296	Pinion, 15T 5	192685	Frame, Gear Shift 9
172965	Pan, Oil 11	176297	Gear, 43T 5	192788	Gear, 47T 35
172967	Chute, Chad 33	176417	Ring, Retaining 37	192789	Pinion, 6T 35
172969	Bracket, Container 33	176419	Ring, Retaining 12, 14	192790	Gear, 49T 35
172973	Bracket, Mounting 30	176422	Bracket, Mounting 20	192791	Pinion, 5T 35
173007	Bracket, Connector Mounting 11, 13	176514	Container, Chad 33	192864	Reel, Tape 8
173023	Modification Kit 12	176536	Cable Assembly 11	192865	Container, Tape 8
173425	Relay, Motor Starting 36	176542	Modification Kit 2, 33	192867	Container Assembly, Tape 8
173484	Modification Kit 2, 32	176610	Lever 25	192868	Spacer 1.197" Lg 8
173583	Pulley, 37T Toothed 12	176612	Washer, Flat 21	193620	Gear Set, 53 WPM 35

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
193621	Gear Set, 66 WPM 35	195110	Plate, Lower Base 36, 37	304915	Connector, 2 Pt Receptacle 6
193628**	Bracket, Lamp Holder 27	195111	Plate, Upper Base 36, 37	304916	Connector, 2 Pt Plug 6
193629	Cable w/Terminals 27	195112	Bracket 36	304918	Plate, Identification 39
193630	Cable w/Terminals 27	195113	Cable Assembly 36	305575	Pinion, 51T 18
193631	Bracket 27	195114	Plate, Identification 36	305576	Gear, 85T 18
193632	Switch Assembly 27	195115	Shaft w/Bearing 37	305580	Bracket Assembly, Gear Shift 18, 19
193634	Bracket, Fuse 27	195116	Bracket 36	308195	Pinion, 10T 35
193635	Indicator, Neon 27	195117	Cable Assembly 36	308196	Gear, 41T 35
193636	Indicator, Neon 27	195118	Cable Assembly 37	308197	Gear Set, 60 WPM 35
193637	Insulator, Terminal 27	195119	Bracket 36	308204	Pinion, 15T 35
193641	Pinion, 6T 35	195120	Container, Tape 37	308205	Gear, 67T 35
193642	Gear, 40T 35	195121	Lever w/Hub 37	308206	Gear Set, 67 WPM 35
193643	Gear Set, 77.7 WPM 35	195122	Guide, Tape 37	310050	Bracket 21
193666**	Guard, Sprocket 35	195123	Handle w/Post 37	311272	Pinion, 14T 5
193667	Modification Kit 2, 35	195128	Brace 37	311273	Gear, 52T 5
193676	Gear, 42T 35	195139	Bracket Assembly, Intermediate Shaft 37	311283	Gear Set, 67 WPM 5
193677	Pinion, 8T 35	195219	Bracket 37	312475	Cable Assembly 39
193678	Gear Set, 100 WPM 35	195388	Modification Kit 2, 32	312476	Cable Assembly 39
193679	Gear, 39T 35	195399	Cable w/Terminals 32	315536	Modification Kit 19
193680	Pinion, 5T 35	195400	Pulley, 16T 37	315829	Guard, Gear 12, 14
193681	Gear Set, 67 WPM 35	195658	Guide, Assembly, Tape 8	317217	Clamp 12, 14
193705	Cable w/Terminals 27	197693	Shaft w/Bearing 12	317358	Plate 12, 14
193706	Jumper, 3" White-Orange 27	197699	Modification Kit 12	319259	Pinion, 12T 9
193707	Jumper, 3" White-Blue 27	197879	Guide, Tape 8	319260	Gear, 40T 9
193708	Jumper, 3" Black 27	197880	Bracket, Tape Guide 8	319262	Modification Kit 9, 10
193727	Plate, Upper Base 6, 7	199398	Insulator 31	319918	Pinion, 25T 19
193778	Cable Assembly 7	199812	Modification Kit 9, 10	319919	Gear, 51T 19
193779	Bracket, Fuse Mounting 7	199814	Plate, Guide 9	319920	Gear Set, 65 WPM 19
193780	Shield, Fuse 7	199894	Pinion, 13T 35	319921	Pinion, 28T 19
193783	Cable Assembly 27	199895	Gear, 68T 35	319922	Gear, 52T 19
193794**	Container Assembly, Tape 2, 28	199896	Gear Set, 100 WPM 35	319923	Gear Set, 71 WPM 19
193837	Guide, Tape 8	199908	Jumper, 3-1/2" White 6	319924	Pinion, 21T 19
194081	Guide, Tape 17	199909	Jumper, 6-7/8" Black 6	319925	Gear, 26T 19
194082	Guide w/Roller, Tape 17	199910	Insulator 6	319926	Gear Set, 107 WPM 19
194221	Cable Assembly 8	207223WU	Spacer, .937" Lg 8		
194862	Extension 34				

**Refer to page 1 for finish suffix

28 SEND-RECEIVE REPERFORATOR KEYBOARD BASE (LTRK)

and

28 SEND-RECEIVE TAPE PRINTER KEYBOARD BASE (LTPK)

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Keyboard Base	2		Backspace Mechanism	16
2	Electrical Components	3	18	163775 Modification Kit to provide Repeat on Space Mechanism	16
3	Casting	4	19	Gear Sets	17
4	Tape Container	5	20	Gear Shift Mechanism for Tape Printer Keyboard Base	18
5	Function Bail Mechanism	6	21	Gear Shift Mechanism for Tape Printer Keyboard Base	19
6	Intermediate Gear Mechanism	6	22	Connectors and Cable	20
7	Keyboard	7	23	Electrical Components for Tape Printer Keyboard Base	21
8	Code Bar Mechanism	8	24	193800 Modification Kit to provide Synchronous Pulsed Transmission	22
9	Universal Bail Mechanism	9	25	192999 Modification Kit to provide Vacuum Chad Removal for Send-Receive Typing Reperforator Set	23
10	Bail Lock Mechanism	9	26	Cables	24
11	Signal Generator Frame Mechanism	10		Numerical Index	25
12	Signal Generator Shaft Mechanism	11			
13	Signal Generator Front Plate Mechanism	12			
14	Signal Generator Rear Plate Mechanism	13			
15	154165 and 154225 Signal Generator Contact Box Assemblies	14			
16	155990 Character Counter Mechanism	15			
17	176405 Modification Kit to add Tape				

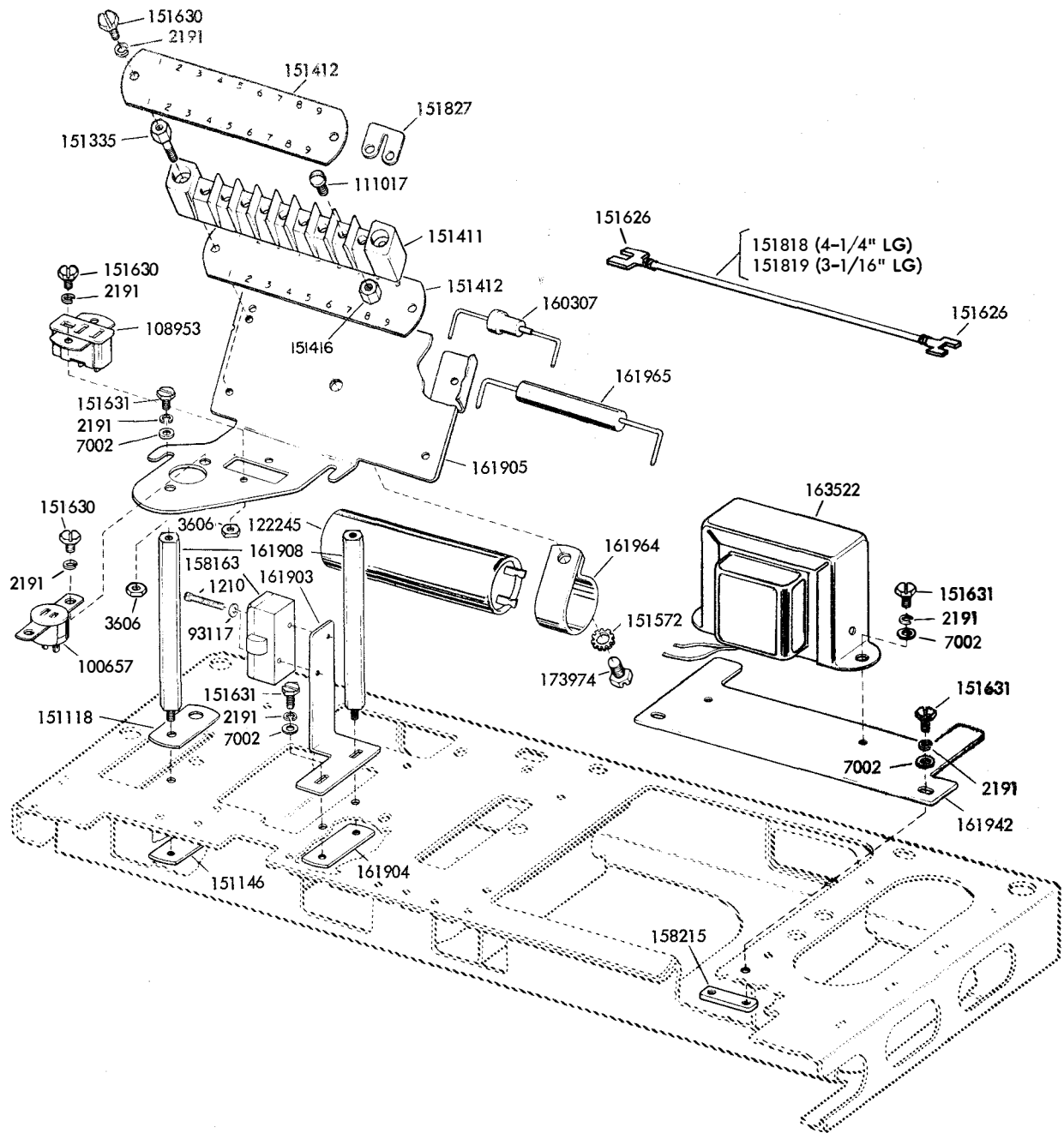


FIGURE 2. ELECTRICAL COMPONENTS

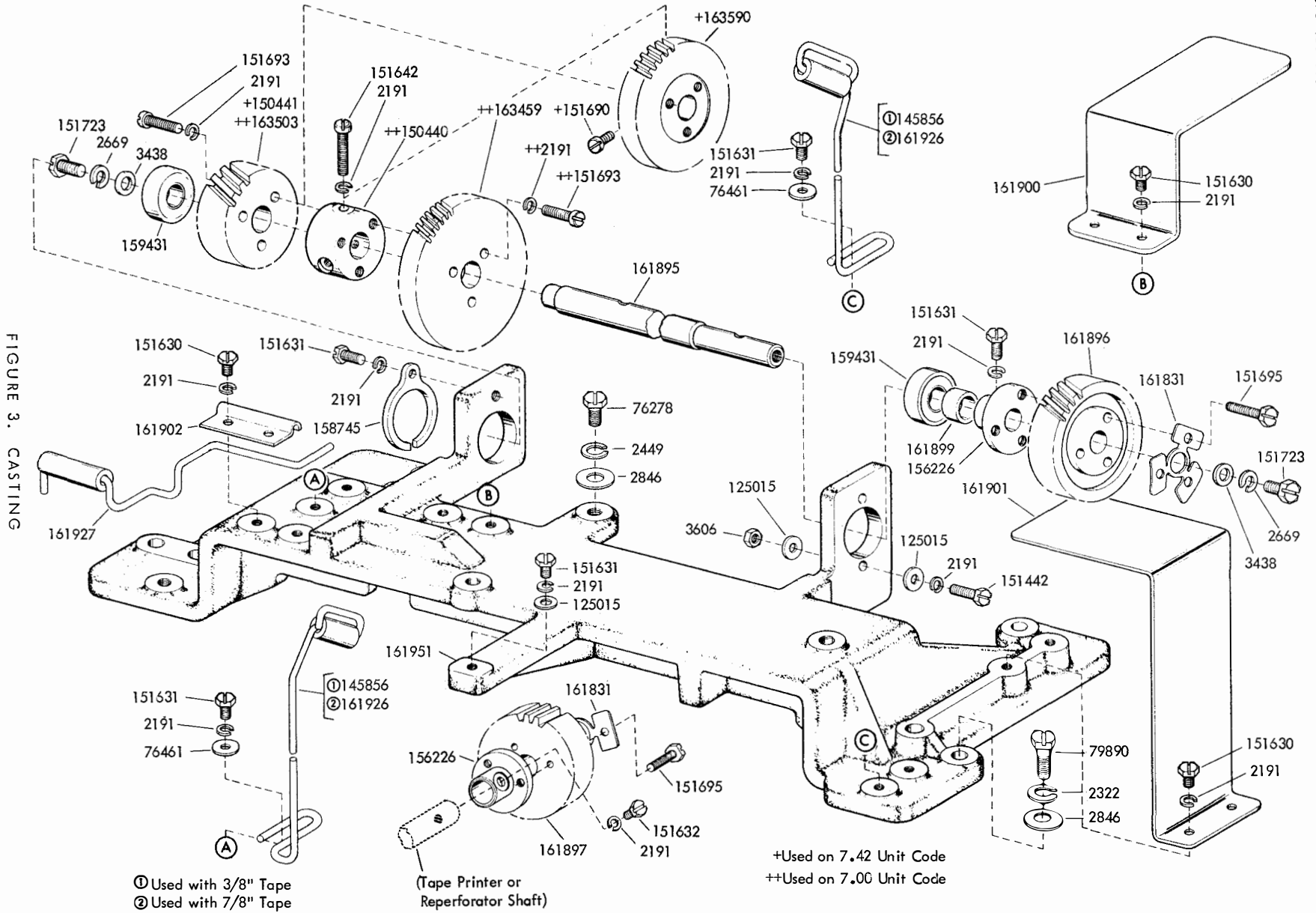
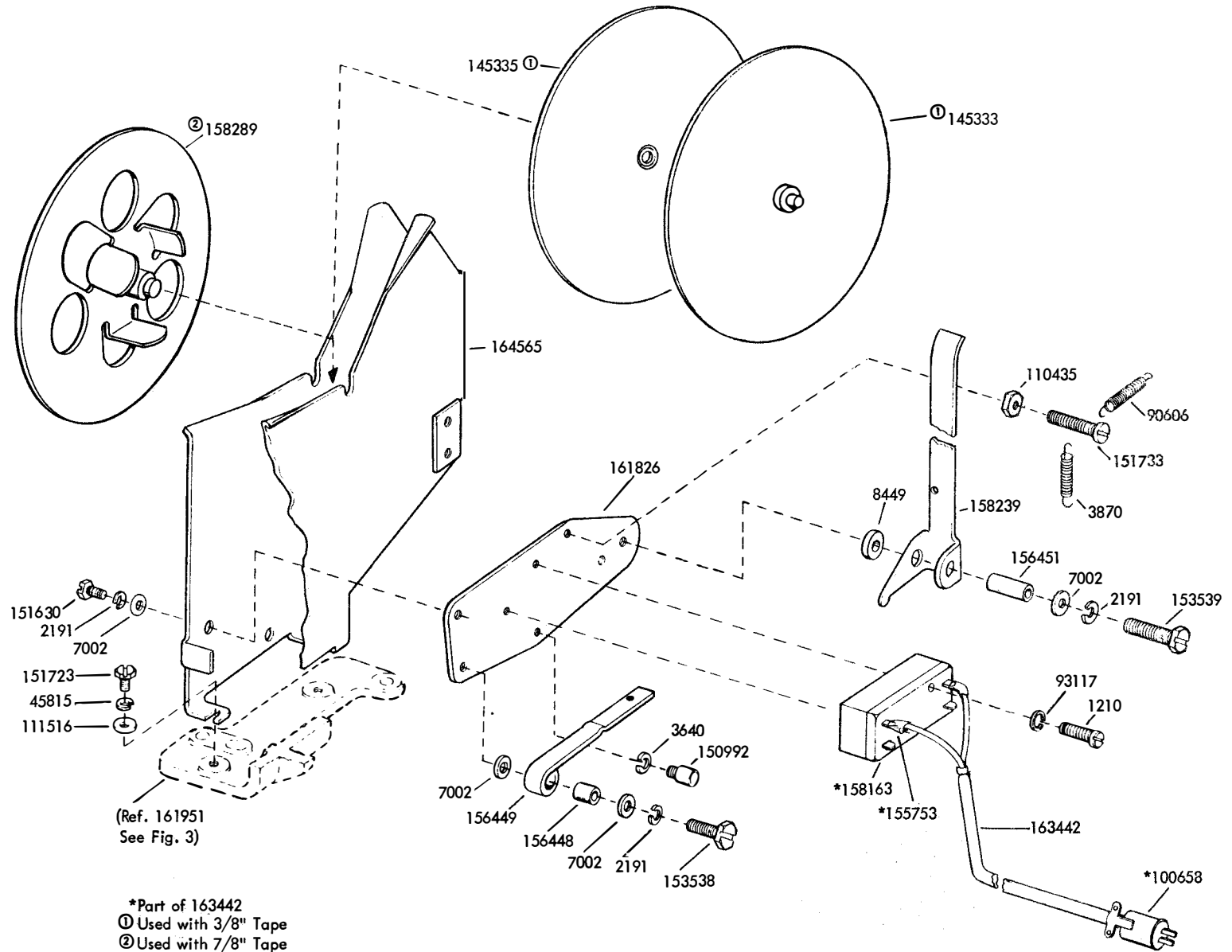


FIGURE 3. CASTING

FIGURE 4. TAPE CONTAINER



*Part of 163442
 ① Used with 3/8" Tape
 ② Used with 7/8" Tape

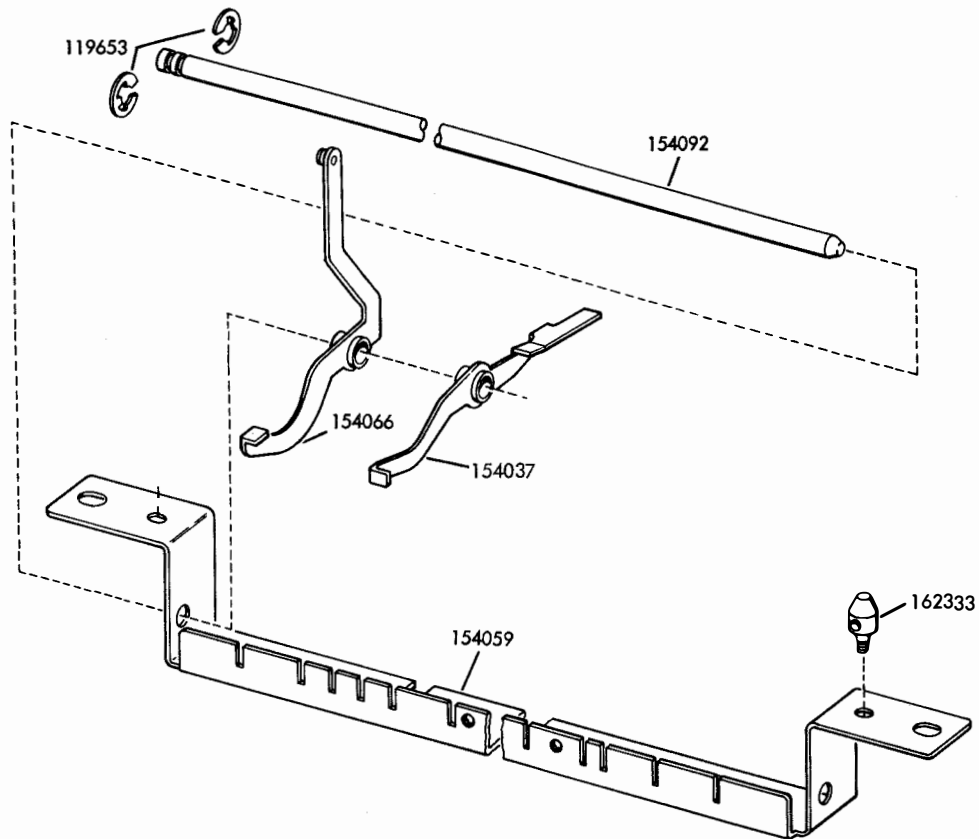
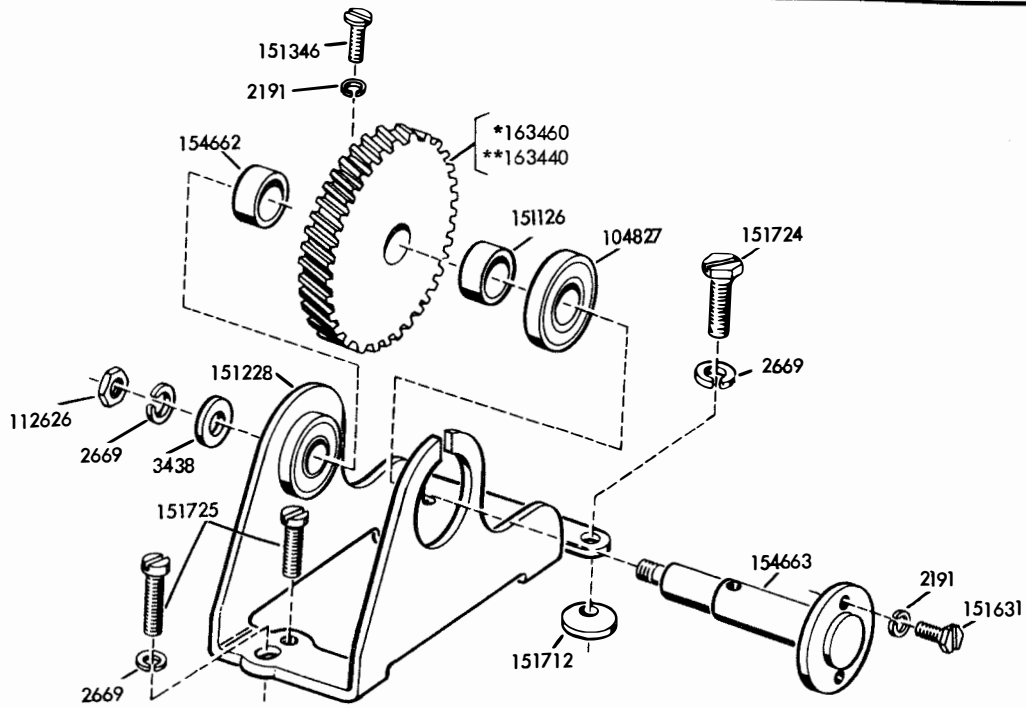


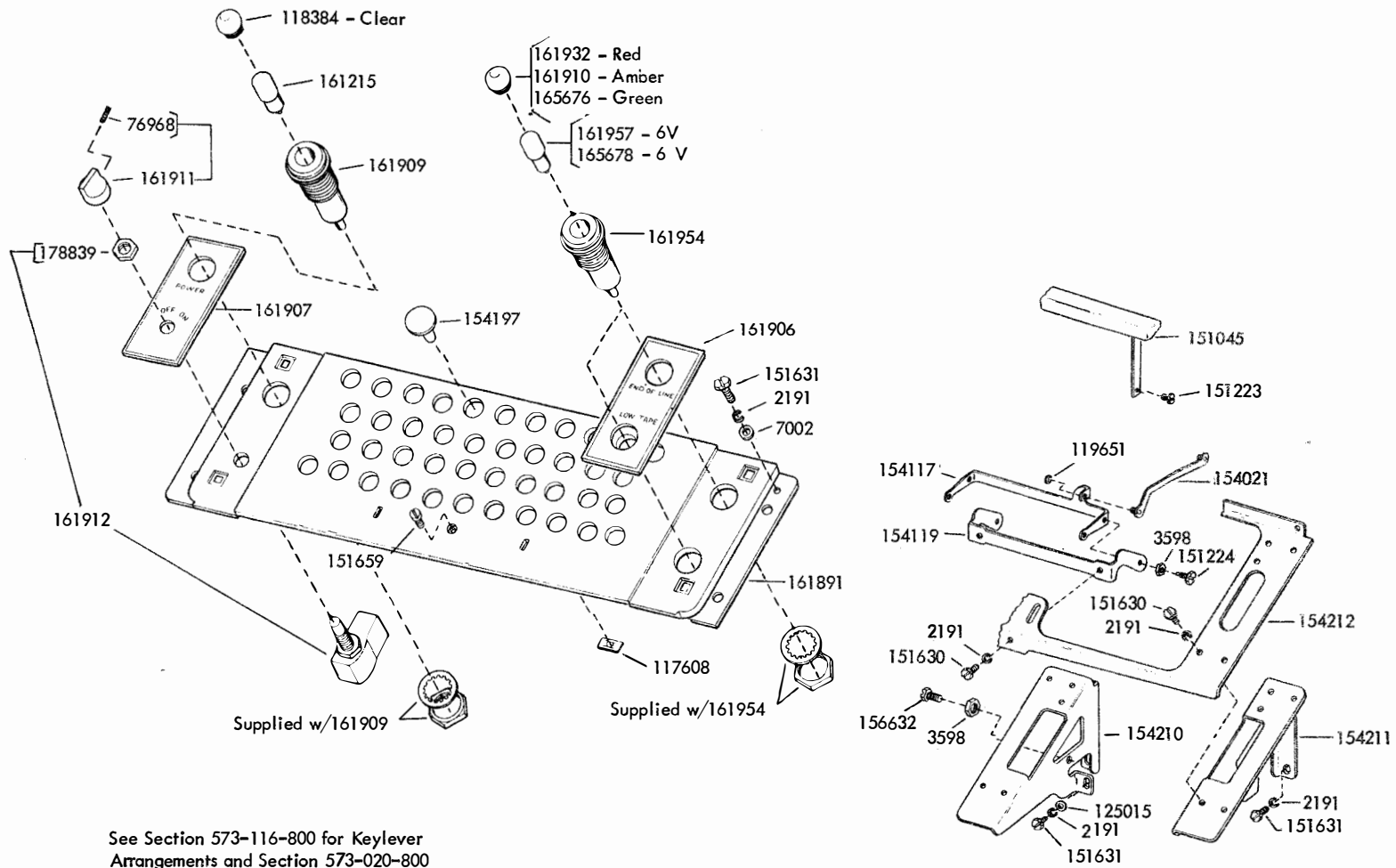
FIGURE 5. FUNCTION BAIL MECHANISM



*Peculiar to 7.00 Unit Code
**Peculiar to 7.42 Unit Code

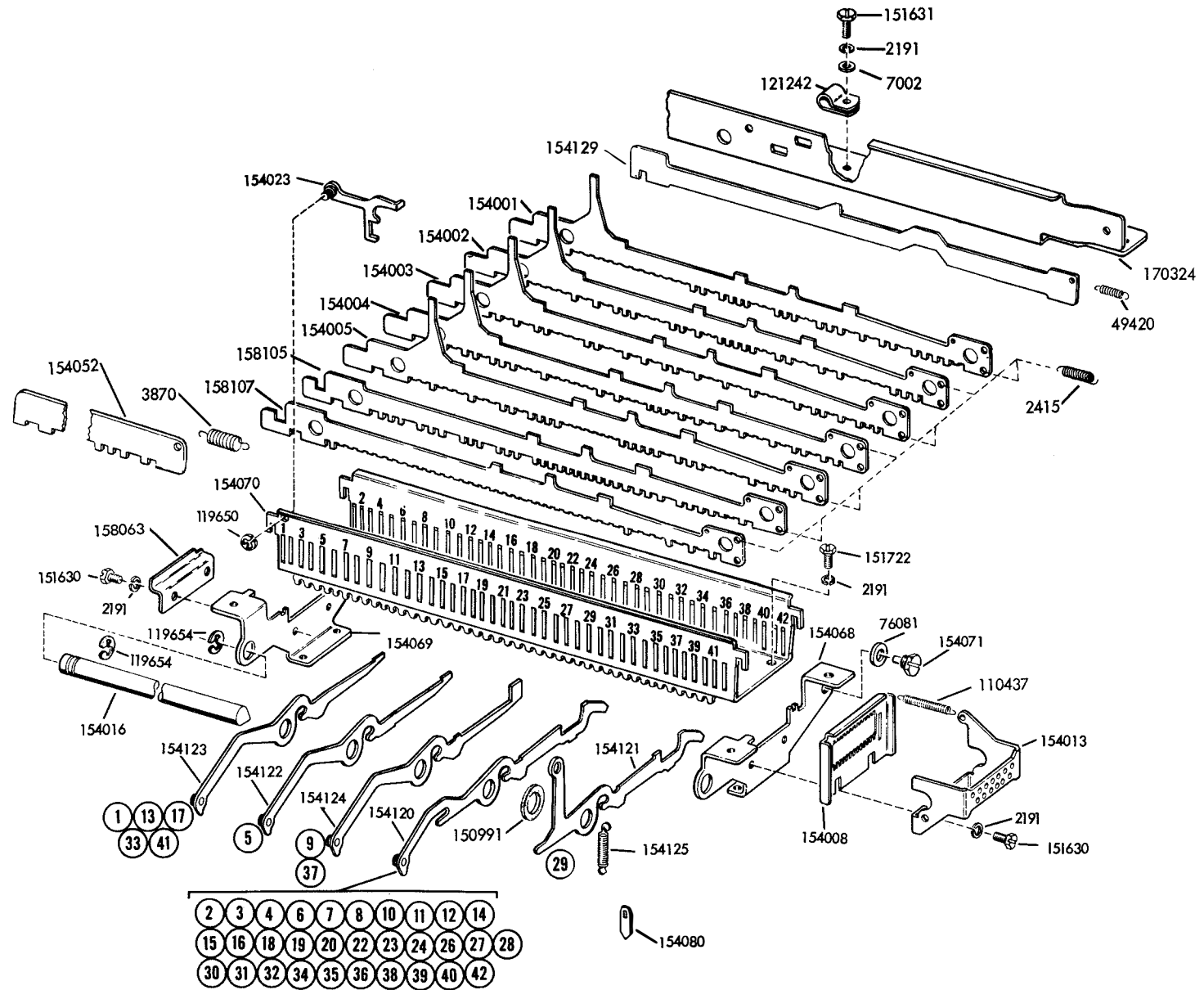
FIGURE 6. INTERMEDIATE GEAR MECHANISM

FIGURE 7. KEYBOARD



See Section 573-116-800 for Keylever Arrangements and Section 573-020-800 for Keylever Assemblies

FIGURE 8. CODE BAR MECHANISM



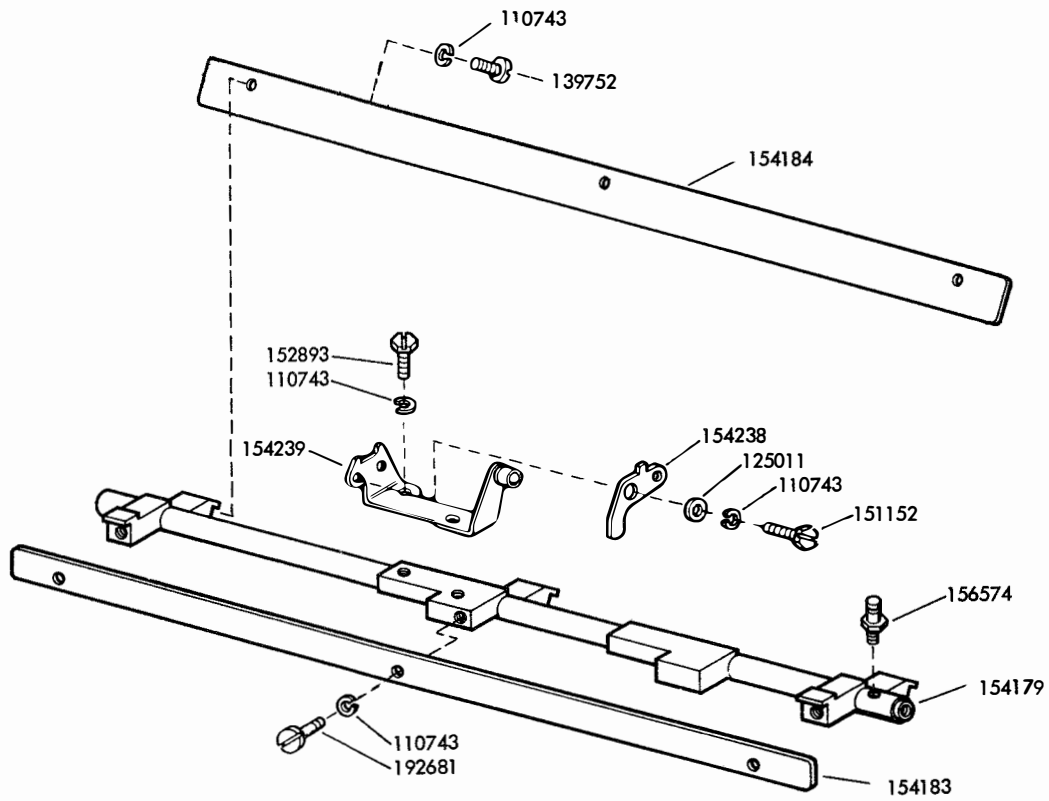


FIGURE 9. UNIVERSAL BAIL MECHANISM

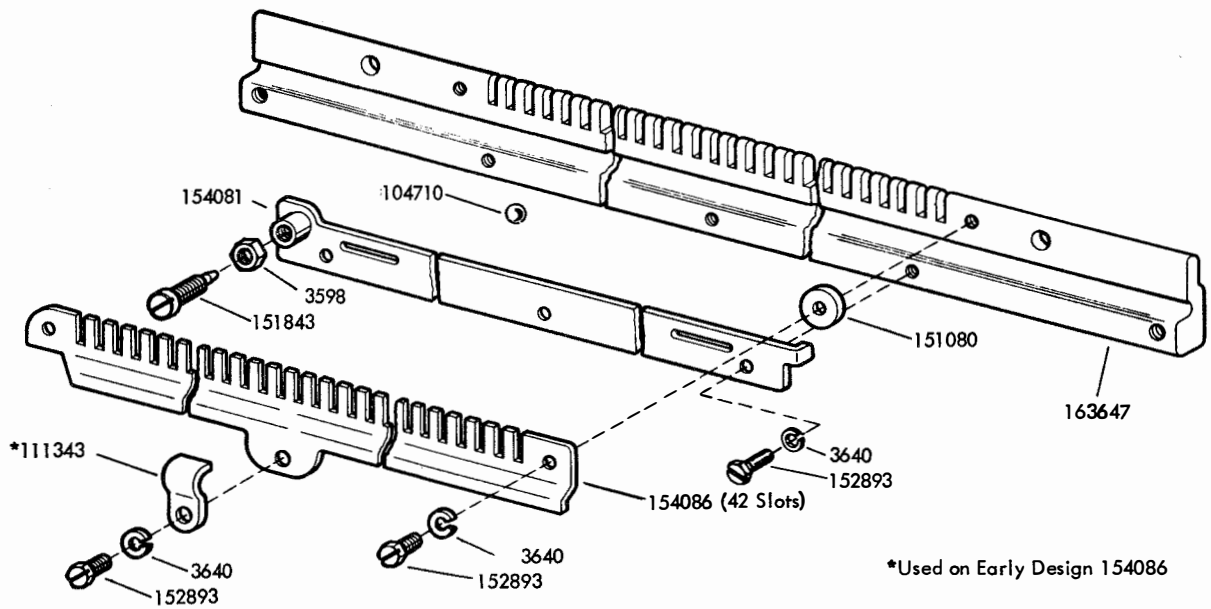
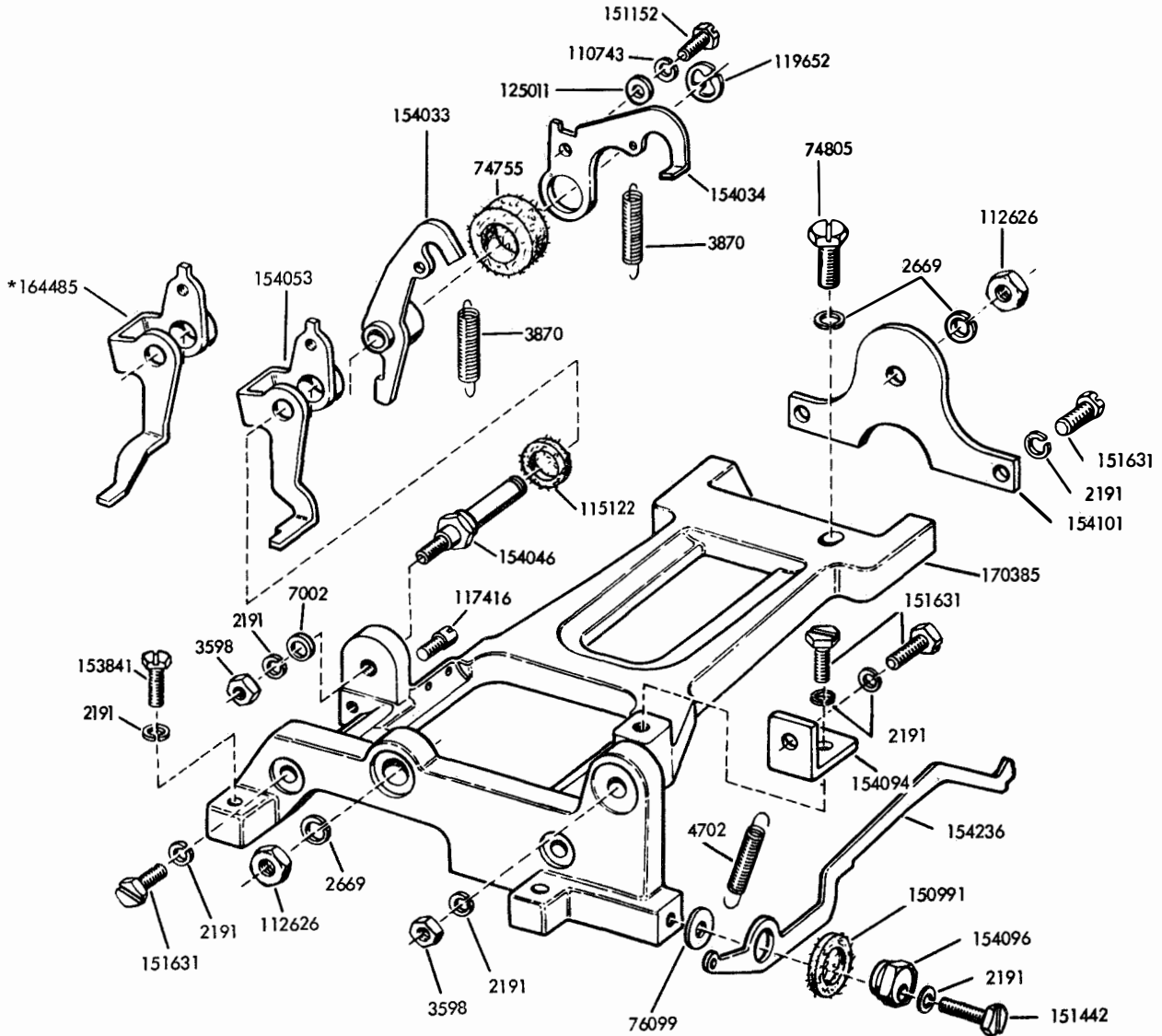


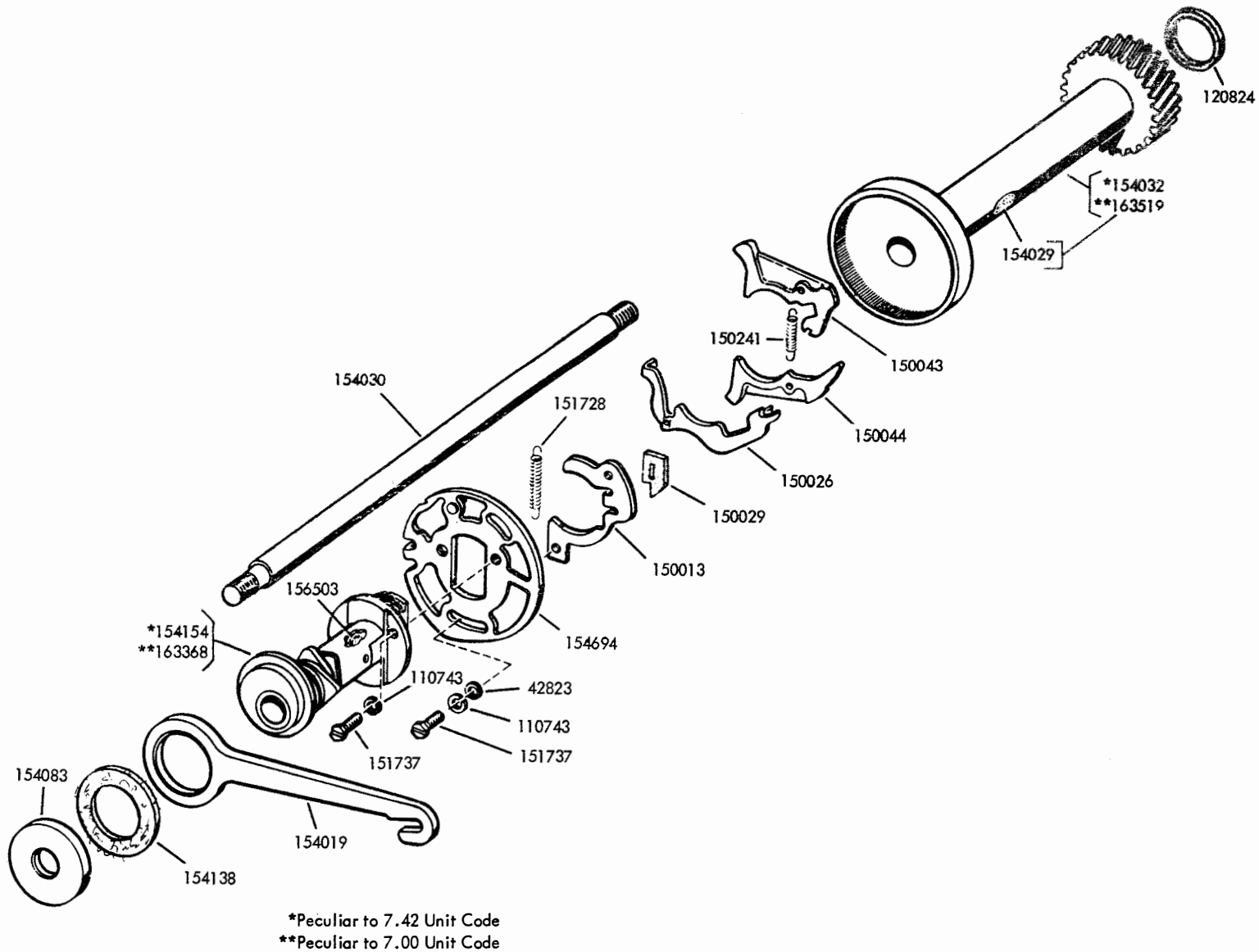
FIGURE 10. BAIL LOCK MECHANISM



*Peculiar to Units Equipped with Synchronous Pulsed Transmission

FIGURE 11. SIGNAL GENERATOR FRAME MECHANISM

FIGURE 12. SIGNAL GENERATOR SHAFT MECHANISM



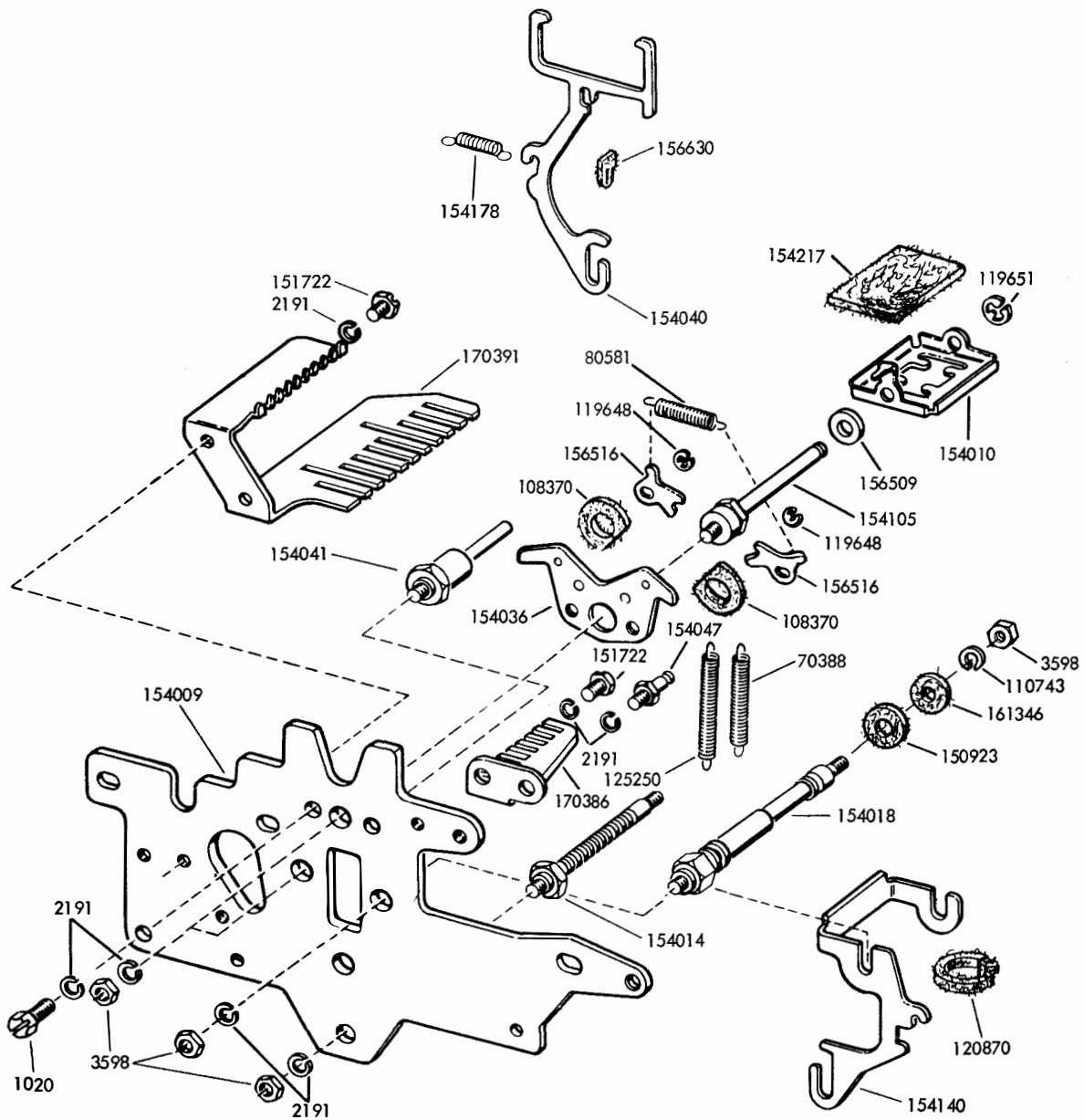
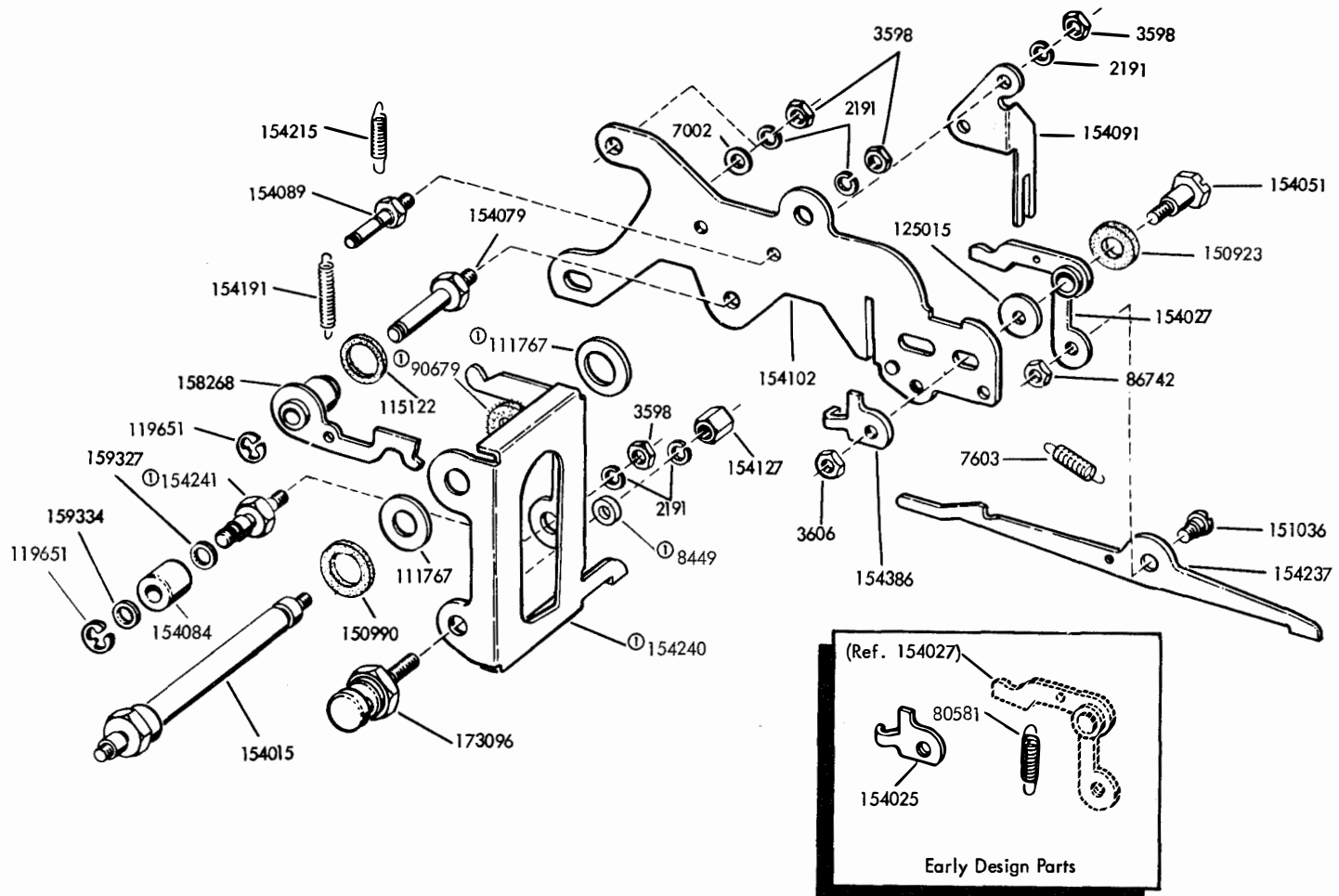
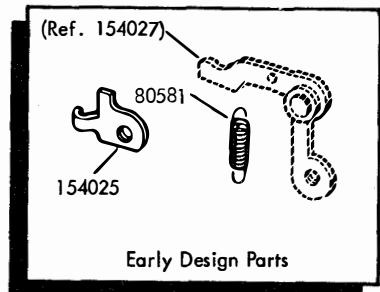


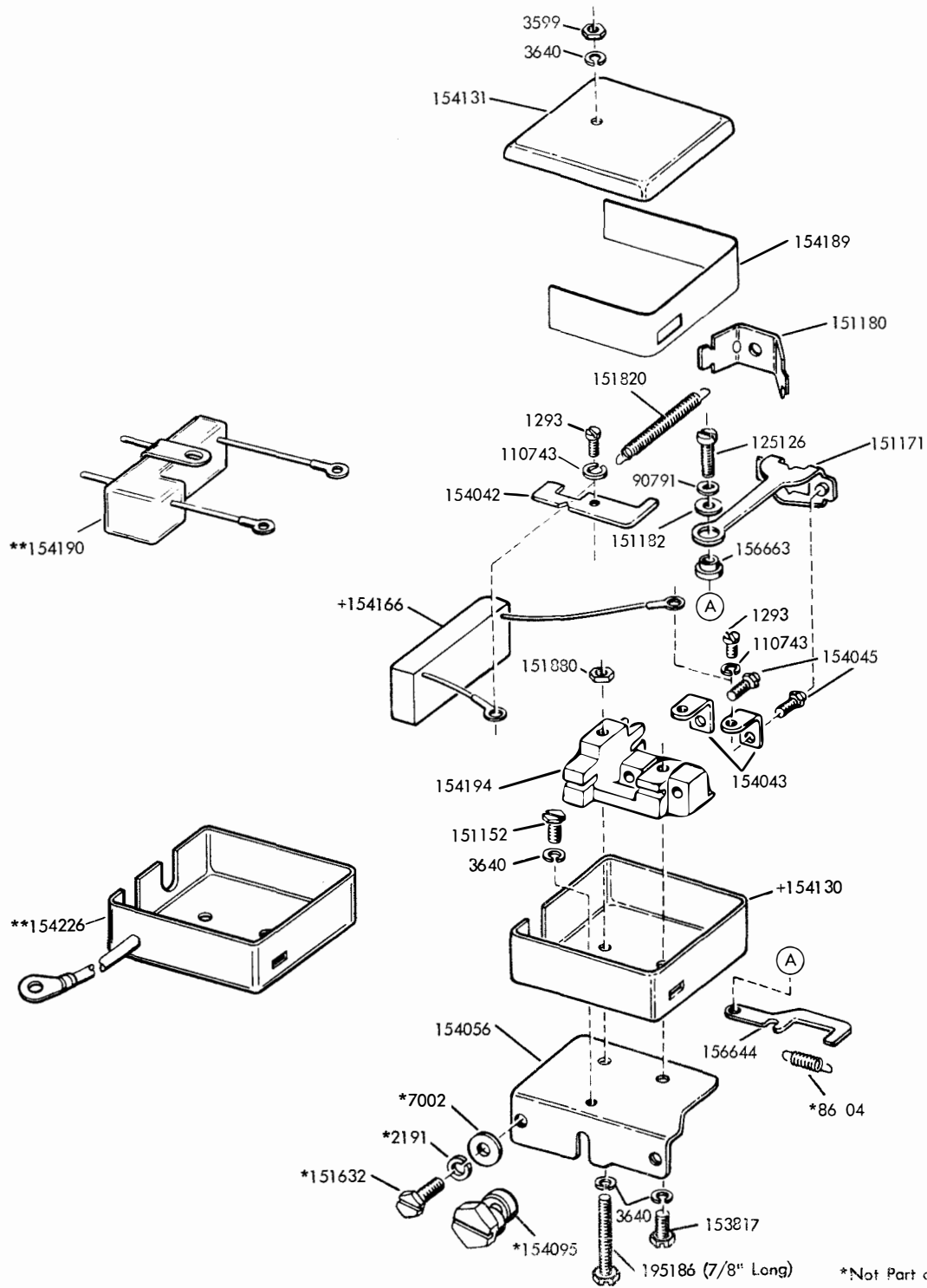
FIGURE 13. SIGNAL GENERATOR FRONT PLATE MECHANISM

FIGURE 14. SIGNAL GENERATOR REAR PLATE MECHANISM



① 154350 Modification Kit





*Not Part of Contact Box Assemblies
 **174491 Modification Kit. Also,
 Peculiar to 154225 (RF Suppression).
 +Peculiar to 154165 (Arc Suppression).

FIGURE 15. 154165 AND 154225 SIGNAL GENERATOR CONTACT BOX ASSEMBLIES

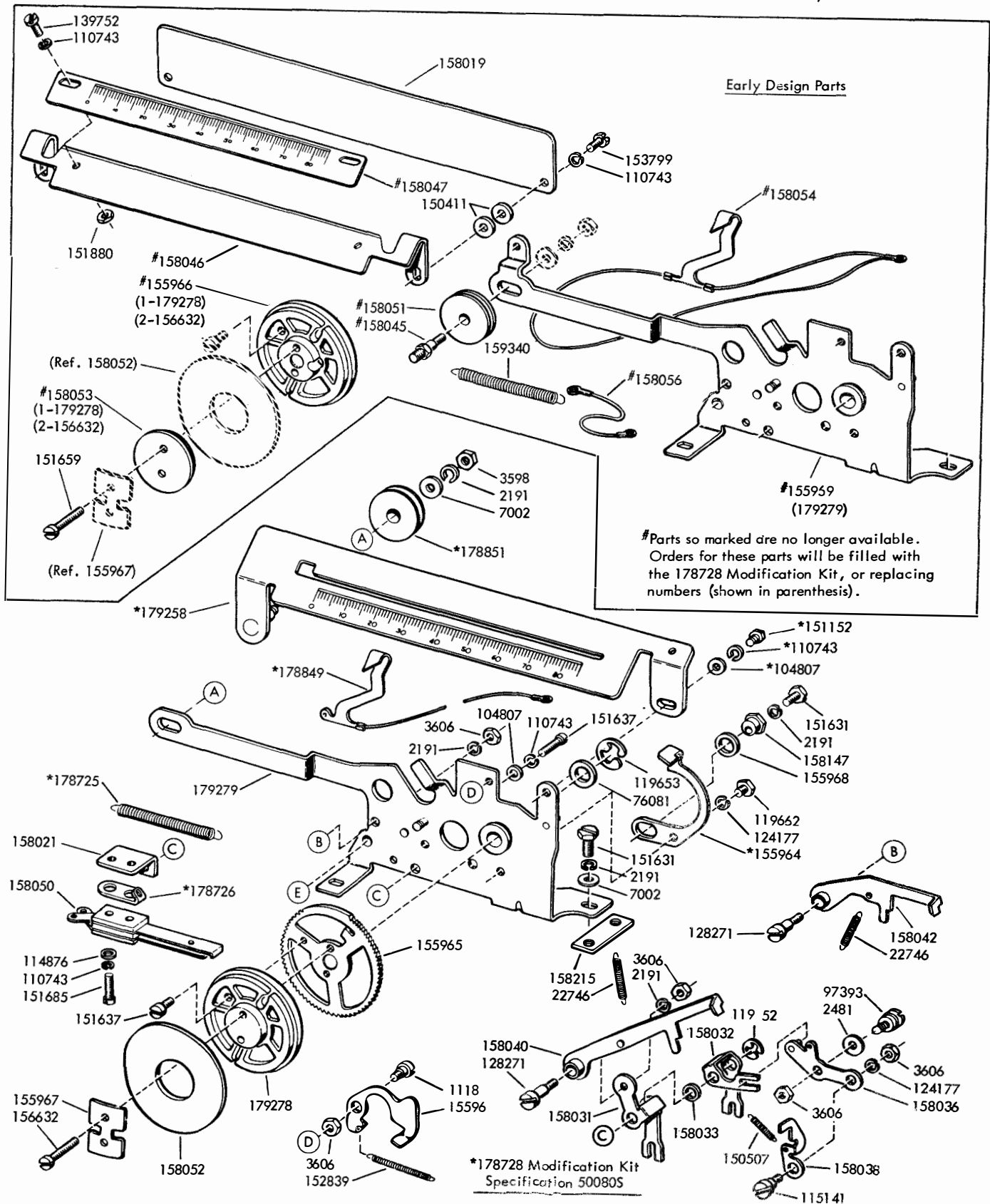


FIGURE 16. 155990 CHARACTER COUNTER MECHANISM

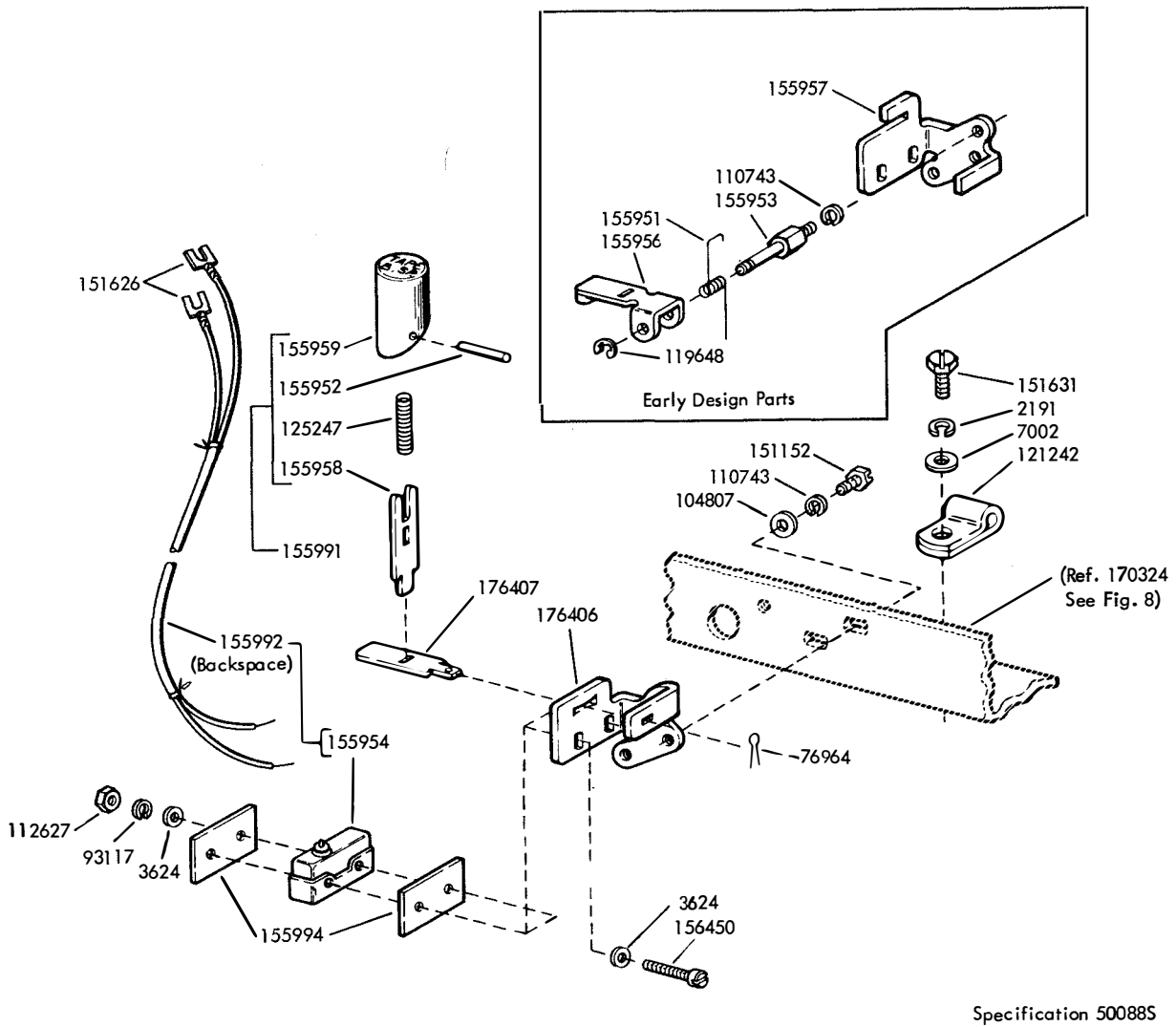


FIGURE 17. 176405 MODIFICATION KIT TO ADD TAPE BACKSPACE BUTTON

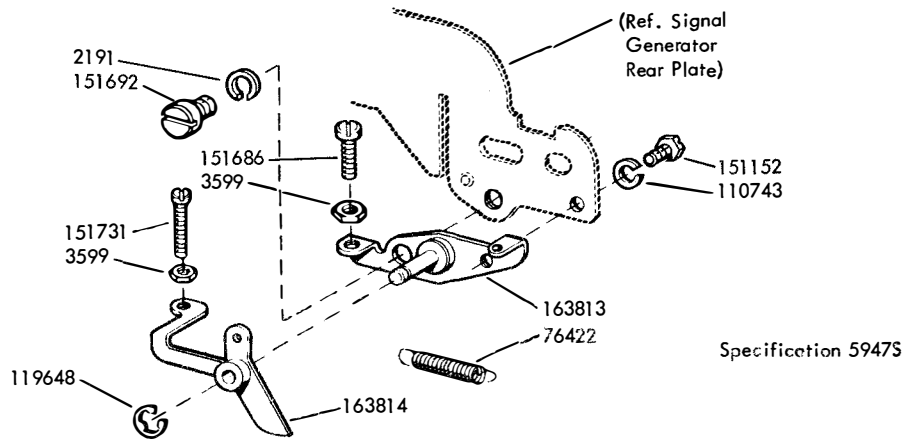
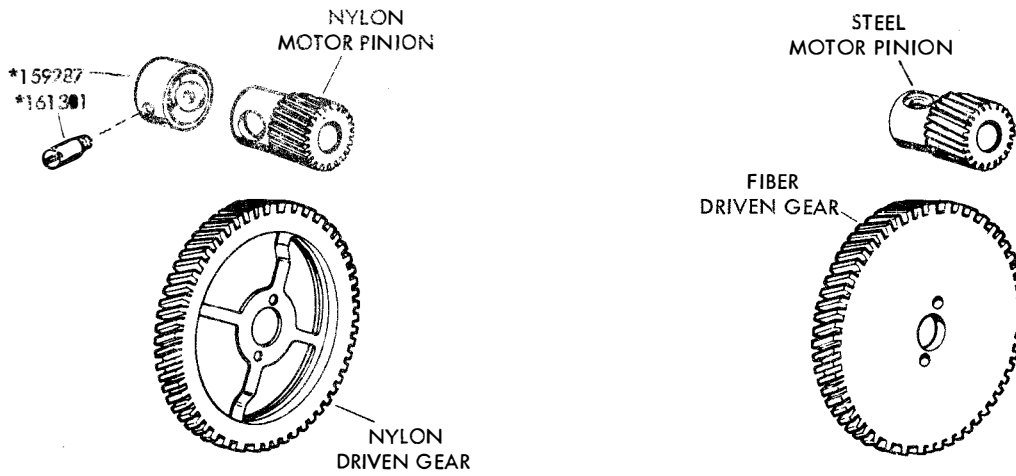


FIGURE 18. 163775 MODIFICATION KIT TO PROVIDE REPEAT ON SPACE MECHANISM



*Supplied with nylon gear sets (Except 173795)

GEAR SETS FOR SEND-RECEIVE KEYBOARD BASE								
Set Number	Pinion	Teeth	Driven Gear	Teeth	SPEED			
					7.00 Unit Code		7.42 Unit Code	
					WPM	Baud	WPM	Baud
151060 161293	151130 (S) 159278 (N)	14	151131 (F) 159279 (N)	96	—	—	60	45.5
152766	152765 (S)	13	152764 (F)	81	—	—	67	50
151075 161294	151132 (S) 159281 (N)	17	151133 (F) 159282 (N)	93	—	—	75	50
151100 161295	151134 (S) 159284 (N)	20	151135 (F) 159285 (N)	84	—	—	100	74.2
163504	163461 (N)	18	163462 (N)	117	71	50	—	—
163505	163463 (N)	24	163464 (N)	104	107	75	—	—
173795	173794 (N)	14	173793 (N)	100	65	45.5	—	—

FIGURE 19. GEAR SETS

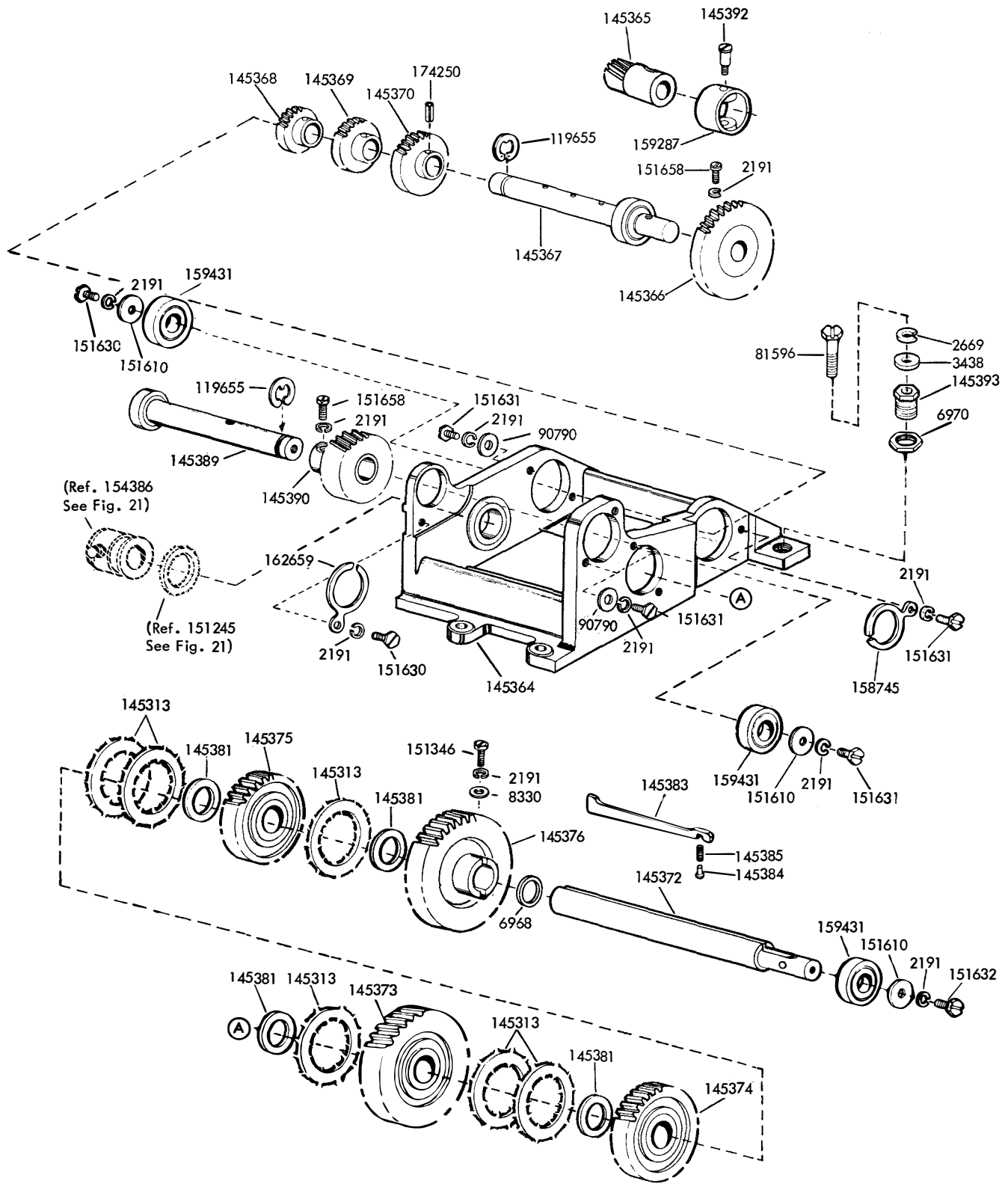


FIGURE 20. GEAR SHIFT MECHANISM FOR TAPE PRINTER KEYBOARD BASE

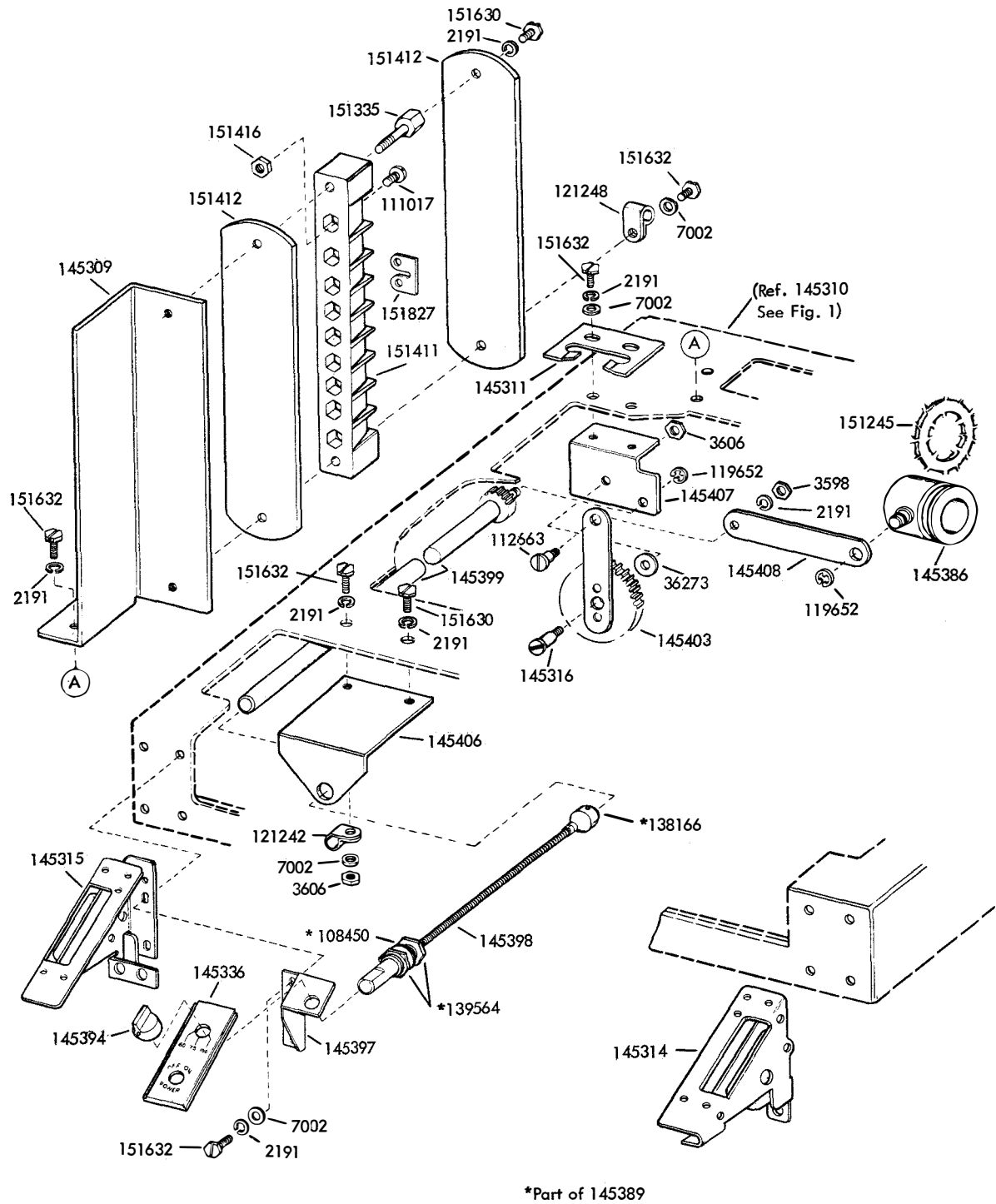


FIGURE 21. GEAR SHIFT MECHANISM FOR TAPE PRINTER KEYBOARD BASE

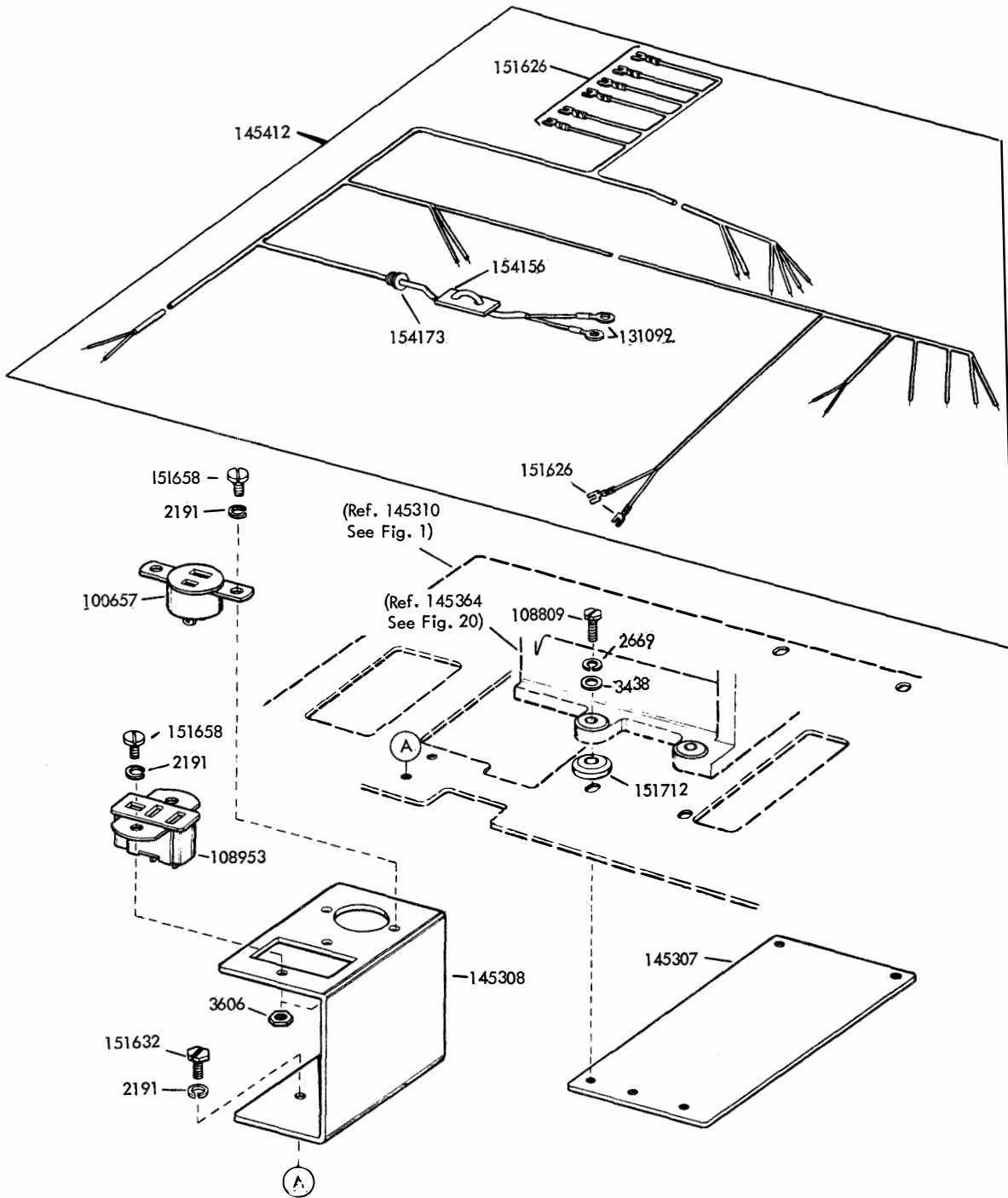


FIGURE 22. CONNECTORS AND CABLE

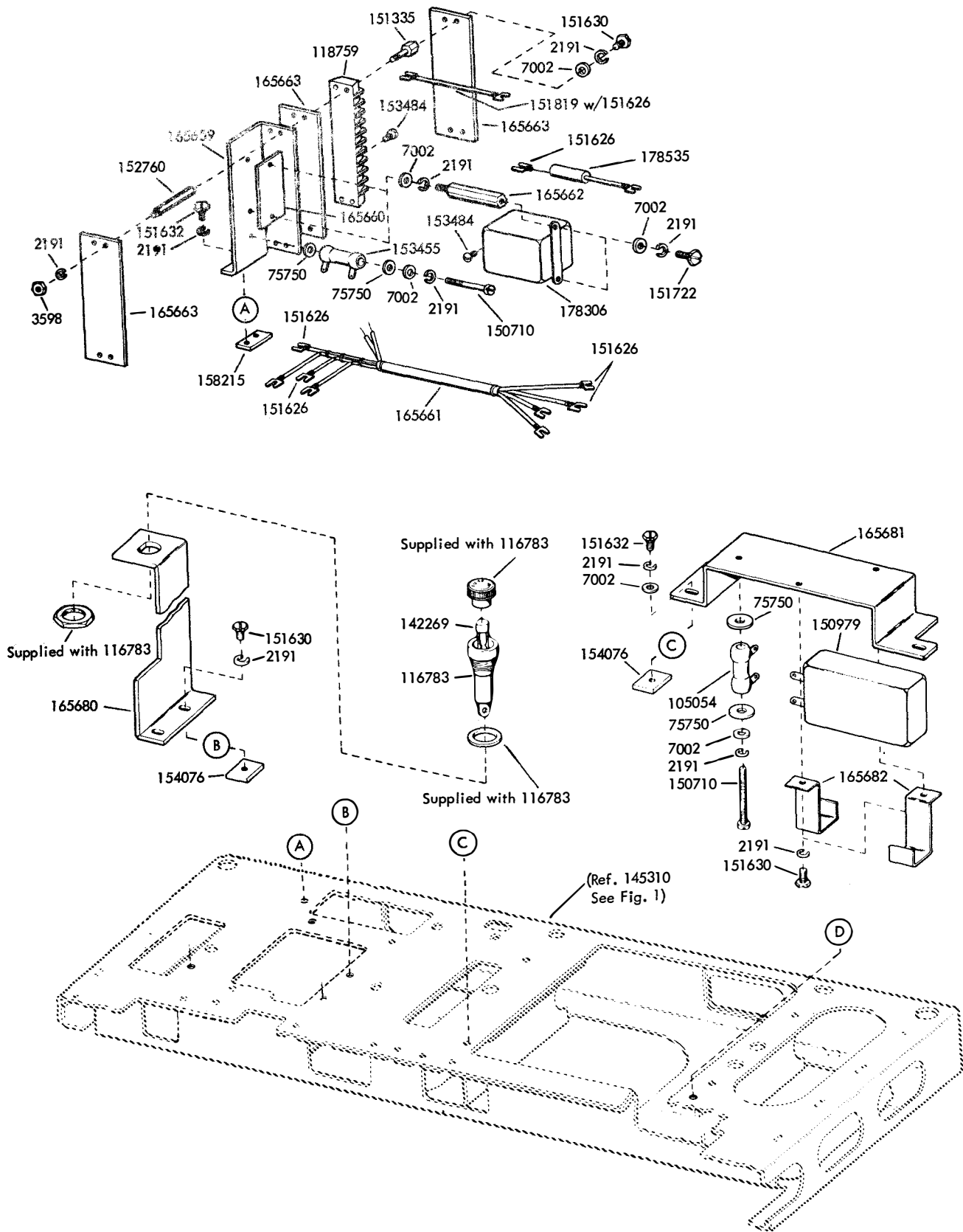


FIGURE 23. ELECTRICAL COMPONENTS FOR THE TAPE PRINTER KEYBOARD BASE

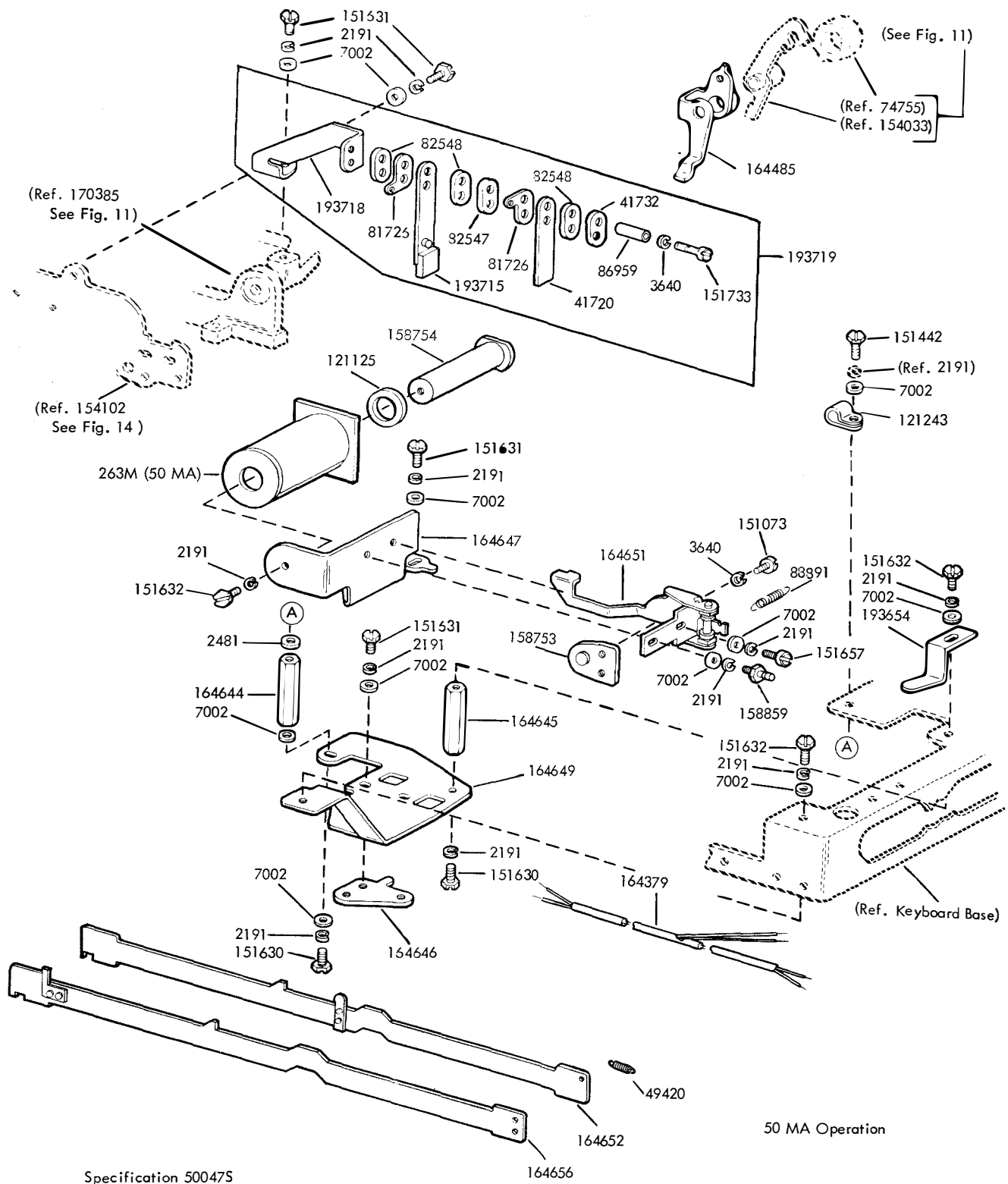


FIGURE 24. 193800 MODIFICATION KIT TO PROVIDE SYNCHRONOUS PULSED TRANSMISSION

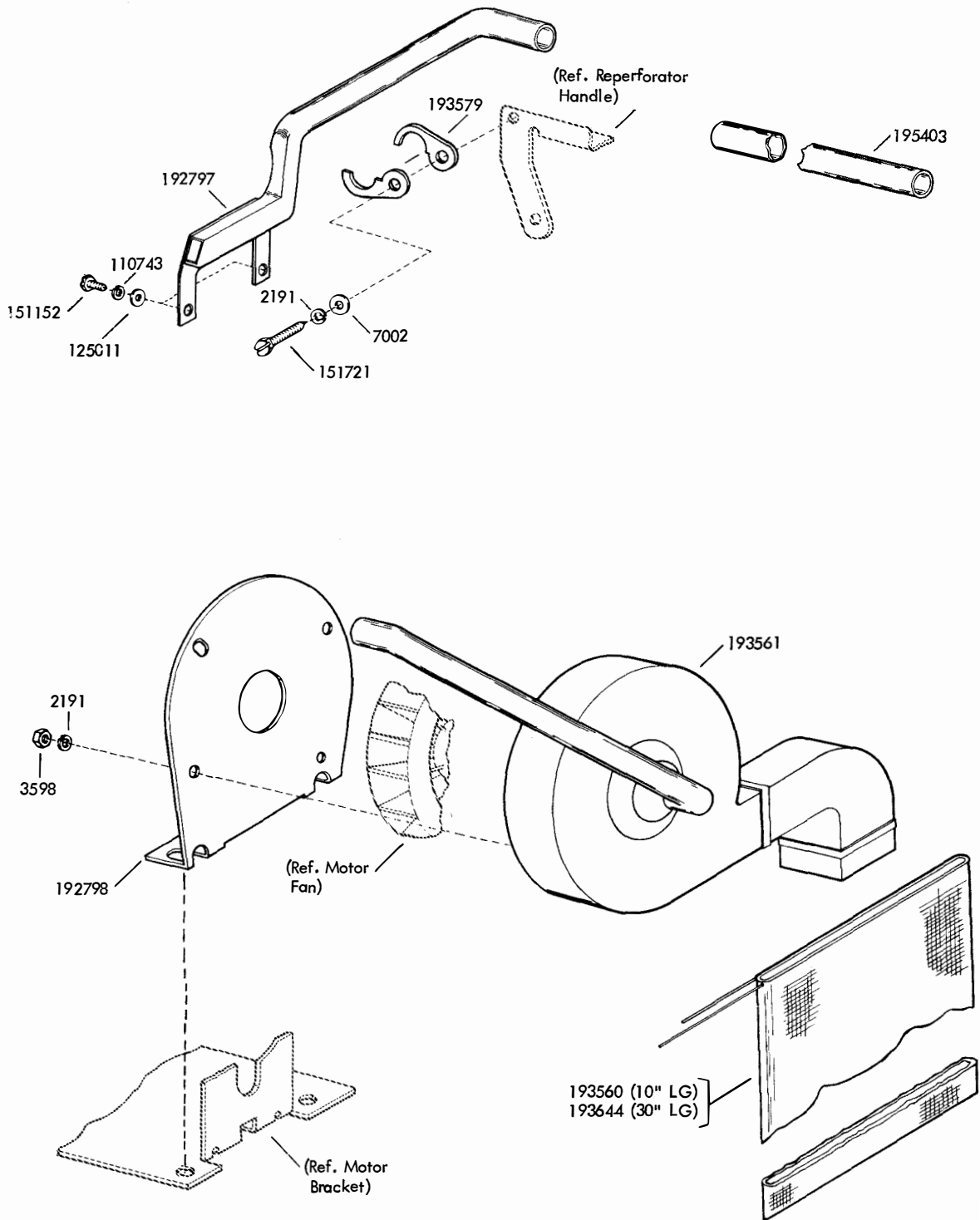
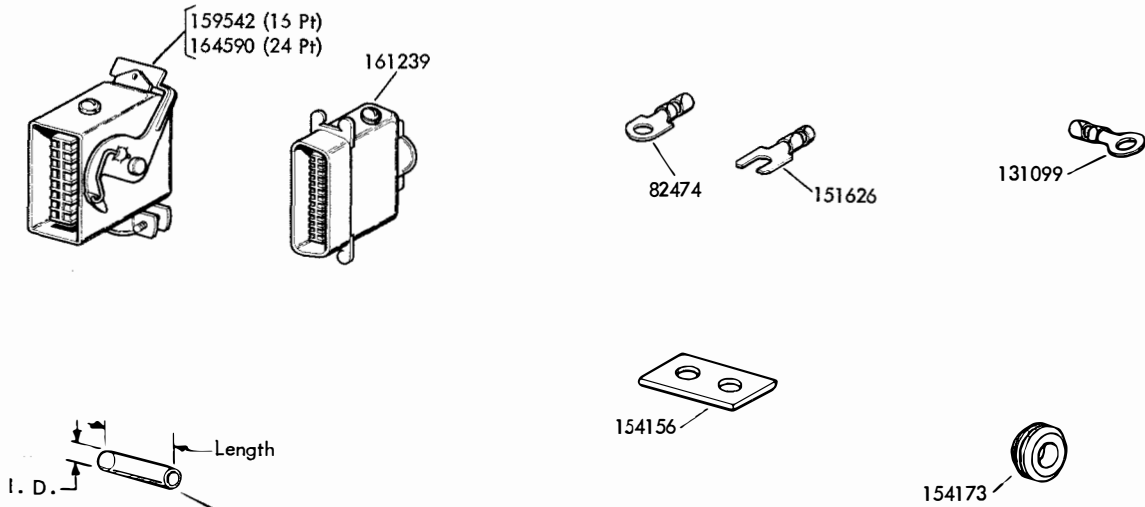


FIGURE 25. 192999 MODIFICATION KIT TO PROVIDE VACUUM CHAD REMOVAL FOR SEND-RECEIVE TYPING REPERFORATOR SET



INSULATING SLEEVE		
Number	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"

Unit	Cable Assembly
LTPK1	- 145412, 165656
LTPK2	- 145412, 165679
LTPK3	- 165656
LTRK1	
LTRK5	- 161878, 161892
LTRK2	- 161892, 173396
LTRK3	- 172721, 173922

FIGURE 26. CABLES

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
263M	Coil, Magnet 22	100658	Connector, Plug (2 Pt) 5	145313	Washer, Felt 18
1020	Screw (6-40 x 1/4 Hex) 12	104710	Ball, Bearing 9	145314	Bracket, Right 19
1118	Screw, Shoulder (6-40) 15	104807	Washer, Flat 15, 16	145315	Bracket, Left 19
1210	Screw (2-56 x 5/8 Fil) 3, 5	104827	Bearing, Ball 6	145316	Screw, Shoulder (6-40) 19
1293	Screw (4-40 x 1/8 Fil) 14	104991	Screw (2-56 x 1/2 Fil) 16	145333	Disk W/Hub 5
2191	Washer, Lock 2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23	105054	Resistor (5 Ohm) 21	145335	Disk W/Knob 5
2322	Washer, Lock 4	108370	Washer, Felt 12	145336	Plate 19
2415	Spring 8	108450	Washer, Lock 19	145364	Bracket W/Bearing 18
2449	Washer, Lock 4	108809	Screw (10-32 x 27/32 Hex) 20	145365	Pinion (20 T) 18
2481	Washer, Flat 15, 22	108953	Connector, Receptacle (3 Pt) 3, 20	145366	Gear (56 T) 18
2669	Washer, Lock 2, 4, 6, 10, 18, 20	110435	Nut (4-40 Hex) 5	145367	Shaft, Drive 18
2846	Washer, Flat 4	110437	Spring 8	145368	Gear (27 T) 18
3438	Washer, Flat 2, 4, 6, 18, 20	110743	Washer, Lock 9, 10, 11, 12, 14, 15, 16, 23	145369	Gear (24 T) 18
3598	Nut (6-40 Hex) 2, 7, 9, 10, 12, 13, 15, 19, 21, 23	111017	Screw (6-40 x 5/16 Fil) 2, 3, 19	145370	Gear (24 T) 18
3599	Nut (4-40 Hex) 2, 14, 16	111343	Clamp 9	145372	Shaft 18
3606	Nut (6-40 Hex) 3, 4, 13, 15, 19, 20	111516	Washer, Flat 5	145373	Gear (66 T) 18
3624	Washer, Flat 16	111767	Washer, Flat 13	145374	Gear (47 T) 18
3640	Washer, Lock 2, 5, 9, 14, 22	112626	Nut (10-32 Hex) 6, 10	145375	Gear (63 T) 18
3870	Spring 5, 8, 10	112627	Nut (2-56 Hex) 16	145376	Gear (48 T) 18
4702	Spring 10	112630	Spring 2	145381	Washer, Thrust 18
6968	Washer, Flat 18	112663	Screw, Shoulder (6-40) 19	145383	Key 18
6970	Nut (3/8-32 Hex) 18	114876	Washer, Flat 15	145384	Pin, Guide 18
7002	Washer, Flat 2, 3, 5, 7, 8, 10, 13, 14, 15, 16, 19, 21, 22, 23	115122	Washer, Felt 10, 13	145385	Spring, Compression 18
7603	Spring 13	115141	Screw, Shoulder (6-40) 15	145386	Sleeve 19
8330	Washer, Flat 18	116783	Holder, Fuse 21	145389	Shaft, Idler 18, 19
8449	Spacer (.094") 5, 13	117416	Post 10	145390	Pinion (25 T) 18
22746	Spring 15	117608	Nut, Speed 7	145392	Post 18
36273	Washer, Flat 19	117608	Nut, Speed 7	145393	Bushing 18
41720	Spring, Contact 22	118384	Lens, Clear Indicator Light 7	145394	Knob 19
41732	Plate, Clamp 22	118759	Block, Terminal 21	145397	Bracket 19
42823	Washer, Flat 11	119648	Ring, Retaining 12, 16	145398	Shaft, Flexible 19
45815	Washer, Lock 5	119650	Ring, Retaining 8	145399	Shaft W/Gear 19
49420	Spring 8, 22	119651	Ring, Retaining 2, 7, 12, 13	145403	Gear W/Link (36 T) 19
70388	Spring 12	119652	Ring, Retaining 10, 15, 19	145406	Bracket, Front 19
74755	Washer, Felt 10	119653	Ring, Retaining 6, 15	145407	Bracket, Rear 19
74805	Screw (10-32 x 3/4 Hex) 10	119654	Ring, Retaining 8	145408	Link 19
75750	Washer, Insulating 21	119655	Ring, Retaining 18	145412	Cable Assembly 20, 24
76081	Washer, Flat 8, 15	119662	Screw (6-40 Spl) 15	145855	Guide, Tape 4
76099	Washer, Flat 10	120824	Washer, Felt 11	145856	Guide, Tape 4
76278	Bushing 4	120870	Wick, Felt 12	150013	Disk, Adjusting 11
76422	Spring 16	121125	Washer, Spring 22	150026	Lever, Shoe Release 11
76461	Washer, Flat 4	121242	Clamp, Cable (1/8" ID) 2, 8, 16, 19	150029	Wick, Felt 11
76964	Pin, Cotter 16	121243	Clamp, Cable (3/16" ID) 22	150043	Shoe, Secondary Clutch 11
76968	Screw, Set (6-32) 7	121244	Clamp, Cable (1/4" ID) 2	150044	Shoe, Primary Clutch 11
79890	Screw (1/4-32 x 7/8 Hex) 4	121248	Clamp, Cable (1/2" ID) 19	150241	Spring 11
80581	Spring 12, 13	121575	Screw (10-32 x 5/16 Hex) 3	150411	Washer, Flat 15
81596	Screw (10-32 x 1-3/8 Hex) 18	122245	Capacitor (43-48 MFD) 3	150440	Hub 4
81726	Terminal 22	124177	Washer, Lock 15	150441	Gear (21 T) 4
82474	Terminal 24	125011	Washer, Flat 9, 10, 23	150507	Spring 15
82547	Insulator (.094") 22	125015	Washer, Flat 4, 7, 13	150710	Screw (6-40 x 1-1/4 Fil) 21
82548	Insulator (.062") 22	125126	Screw (2-56 x 9/32 Fil) 14	150923	Washer, Felt 12, 13
86304	Spring 14	125181	Screw (2-56 x 3/8 Fil) 2	150966	Insulator (1-4) 2
86742	Nut (4-40 Hex) 13	125247	Spring, Compression 16	150979	Capacitor (1/2 MFD) 21
86959	Bushing, Insulating 22	125250	Spring 12	150990	Washer, Felt 13
88891	Spring 22	128271	Screw, Shoulder (6-40) 15	150991	Washer, Felt 8, 10
90606	Spring 5	131099	Terminal 20, 24	150992	Stud 5
90679	Washer, Felt 13	138166	Screw, Set (8-32) 19	151036	Screw, Shoulder (4-40) 13
90790	Washer, Flat 18	139564	Nut (3/8-32 Hex) 19	151045	Bar, Space 7
90791	Washer, Lock 14	139752	Screw (4-40 x 11/64 Hex) 9, 15	151060	Gear Set (60 WPM) 17
93117	Washer, Lock 3, 5, 16	142269	Fuse (3 Amp SL-BL) 21	151073	Screw (4-40 x 5/32 Fil) 22
97393	Screw, Shoulder (6-40) 15	145307	Plate, Nut 20	151075	Gear Set (75 WPM) 17
100657	Connector, Receptacle (2 Pt) 3, 20	145308	Bracket 20	151080	Washer, Flat 9
		145309	Bracket 19	151100	Gear Set (100 WPM) 17
		145310	Base 2	151113	Strip, Mounting 2
		145311	Plate, Stop 19	151118	Plate, Spacing 2, 3
				151126	Spacer (25/64" ID) 6
				151130	Pinion (14 T) 17

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
151131	Gear (96 T) 17	152766	Gear Set (67 WPM) 17	154092	Shaft 6
151132	Pinion (17 T) 17	152839	Spring, Latch 15	154094	Clamp 10
151133	Gear (93 T) 17	152893	Screw (4-40 x 1/4 Hex) 9	154095	Eccentric, Contact Box 14
151134	Pinion (20 T) 17	153252	Link 2	154096	Bushing, Eccentric 10
151135	Gear (84 T) 17	153455	Resistor (600 Ohm) 21	154101	Plate, Rear 10
151146	Strap, Mounting 2, 3	153484	Screw (6-32 Spl) 21	154102	Plate, Rear 13
151152	Screw (4-40 x 3/16 Hex) 9, 10, 14, 15, 16, 23	153538	Screw (6-40 x 7/16 Hex) 5	154105	Post, Transfer Bail 12
151171	Toggle, Contact 14	153539	Screw (6-40 x 11/16 Hex) 5	154106	Bracket 2
151180	Link, Toggle 14	153799	Screw (4-40 x 21/64 Hex) 15	154117	Bail, Space Bar 7
151182	Washer, Insulating 14	153817	Screw (4-40 x 3/8 Hex) 2, 14	154119	Bracket Space Bar 7
151223	Screw, Shoulder (4-40) 7	153841	Screw (6-40 x 9/16 Hex) 2, 10	154120	Lever, Code Bar 8
151224	Screw, Pilot (6-40) 7	154000	Base 2	154121	Lever, Space 8
151228	Bracket W/Bearing 6	154001	Bar, Code (#1) 8	154122	Lever, Keyboard Lock 8
151245	Washer, Felt 19	154002	Bar, Code (#2) 8	154123	Lever, Function 8
151329	Switch, Sensitive 2	154003	Bar, Code (#3) 8	154124	Lever, Repeat and Keyboard Unlock 8
151335	Stud 2, 3, 19, 21	154004	Bar, Code (#4) 8	154125	Spring 8
151346	Screw (6-40 x 3/8 Fil) 6, 18	154005	Bar, Code (#5) 8	154127	Nut (6-40 Hex) 13
151411	Block, Terminal 3, 19	154008	Guide, Code Bar 8	154129	Bar, Clutch Trip 8
151412	Insulator (1-9) 3, 19	154009	Plate, Front 12	154130	Box, Contact 14
151415	Block, Terminal 2	154010	Bail, Transfer 12	154131	Cover, Contact Box 14
151416	Nut (6-40 Hex) 2, 3, 19	154013	Bracket, Spring 8	154138	Washer, Felt 11
151442	Screw (6-40 x 1/2 Hex) 4, 10, 22	154014	Post, Guide 12	154140	Bail, Locking 12
151572	Washer, Lock 3	154015	Post 13	154154	Cam, Signal Generator 11
151610	Washer, Flat 18	154016	Shaft 8	154156	Grommet, Rubber 20, 24
151626	Terminal 3, 16, 20, 21, 24	154018	Post, Locking Bail 12	154165	Box Assembly, Contact 14
151630	Screw (6-40 x 1/4 Hex) 2, 3, 4, 5, 7, 8, 18, 19, 21, 22	154019	Follower, Eccentric 11	154166	Suppressor, Arc 14
151631	Screw (6-40 x 5/16 Hex) 2, 3, 4, 6, 7, 8, 10, 15, 16, 18, 22	154021	Link 7	154173	Plate 20, 24
151632	Screw (6-40 x 3/8 Hex) 2, 4, 14, 18, 19, 20, 21, 22	154023	Latch, Lock Bar 8	154178	Spring 12
151637	Screw (4-40 x 1/4 Fil) 2, 15	154025	Plate, Adjusting 13	154179	Bail, Universal 9
151642	Screw (6-40 x 3/4 Fil) 4	154027	Bellcrank 13	154183	Blade, Front 9
151657	Screw (6-40 x 1/4 Fil) 22	154029	Wick, Felt 11	154184	Blade, Rear 9
151658	Screw (6-40 x 5/16 Fil) 18, 20	154030	Shaft 11	154189	Insulator 14
151659	Screw (6-40 x 1/2 Fil) 7, 15	154032	Sleeve, Gear 11	154190	Spring, R.F. 14
151678	Screw, Pilot (1/4-32) 2	154033	Lever, Clutch Latch 10	154191	Filter 13
151685	Screw (4-40 x 5/16 Fil) 15	154034	Lever, Clutch Stop 10	154194	Base 14
151686	Screw (4-40 x 3/8 Fil) 16	154036	Plate, Detent 12	154197	Plug, Button 7
151690	Screw (10-32 x 5/16 Fil) 16	154037	Lever 6	154199	Shim (.005") 2
151692	Screw (6-40 x 3/16 Fil) 4	154039	Bracket 2	154201	Shim (.014") 2
151693	Screw (6-40 x 9/16 Fil) 4	154040	Lever, Transfer 12	154210	Bracket, Left 7
151695	Screw (6-40 x 5/8 Hex) 4	154041	Post, Stop 12	154211	Bracket, Right 7
151712	Button, Pivot 6, 20	154042	Terminal 14	154212	Frame, Front 7
151721	Screw (6-40 x 3/4 Hex) 23	154043	Terminal 14	154215	Spring 13
151722	Screw (6-40 x 3/16 Hex) 8, 12, 21	154045	Screw (6-40 Spl) 14	154217	Wick, Leather 12
151723	Screw (10-32 x 3/8 Hex) 2, 4, 5	154046	Stud 10	154225	Box Assembly, Contact 14
151724	Screw (10-32 x 5/8 Hex) 6	154047	Post, Spring 12	154226	Box W/Strap 14
151725	Screw (10-32 x 3/4 Fil) 6	154051	Screw, Shoulder (6-40) 13	154236	Lever, Latch 10
151728	Spring 11	154052	Bar, Locking 8	154237	Lever, Non-Repeat 13
151731	Screw (4-40 x 7/8 Fil) 16	154053	Bail, Clutch Trip 10	154238	Extension 9
151733	Screw (4-40 x 9/16 Fil) 5, 22	154056	Bracket, Contact Box 14	154239	Extension W/Post 9
151737	Screw (4-40 x 11/16 Hex) 11	154059	Bracket, Function Bail 6	154240	Bail, Code Bar 13
151818	Jumper (4-1/4" Black) 3	154066	Lever 6	154241	Stud 13
151819	Jumper (3" Black) 3, 21	154068	Bracket, Right Guide 8	154350	Modification Kit 13
151820	Spring, Contact 14	154069	Bracket, Left Guide 8	154386	Plate, Adjusting 13
151827	Strap, Terminal 3, 19	154070	Guide, Code Lever 8	154662	Spacer 6
151843	Screw, Adjusting (6-40) 9	154071	Screw, Pilot (1/4-32) 8	154663	Shaft 6
151880	Nut (4-40 Hex) 14, 15	154076	Plate, Nut 2, 21	154694	Disk, Clutch Cam 11
152045	Guard, Gear 2	154079	Stud 13	155750	Sleeve, Insulating (3/32 ID x 1/2" Lg) 24
152760	Stud 21	154080	Lock, Wedge 8	155751	Sleeve, Insulating (1/8 ID x 1" Lg) 24
152764	Gear (81 T) 17	154081	Plate, Retainer 9	155752	Sleeve, Insulating (5/64 ID x 1/2" Lg) 24
152765	Pinion (13 T) 17	154083	Spacer, Cam 11	155753	Sleeve, Insulating (1/8 ID x 1/2" Lg) 5, 24
		154084	Bearing 13	155754	Sleeve, Insulating (1/16 ID x 1/2" Lg) 24
		154085	Plate 2		
		154086	Retainer, Wedge 9		
		154087	Plate, Nut 2		
		154088	Plate, Nut 2		
		154089	Post, Spring 13		
		154091	Guide 13		

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155951	Spring, Torsion 16	159287	Retainer, Pinion 17, 18	164485	Bail 10, 22
155952	Pin 16	159327	Washer, Flat 13	164565	Container, Tape 5
155953	Stud 16	159334	Washer, Insulating 13	164590	Connector, Plug (24 Pt) 24
155954	Switch, Micro 16	159340	Spring, Return 15	164644	Post 22
155956	Bail W/Bar 16	159431	Lever, Main Trip 4, 18	164645	Post 22
155957	Bracket 16	159542	Connector, Receptacle (16 Pt) 2, 24	164646	Plate, Nut 22
155958	Keylever 16	160307	Diode 3	164647	Bracket 22
155959	Keytop 16	161215	Lamp, Neon (110 V) 7	164649	Plate, Mounting 22
155960	Latch 15	161239	Connector, Plug (36 Pt) 24	164651	Bail, Armature 22
155964	Lever, Stop 15	161293	Gear Set (60 WPM) 17	164652	Bar, Universal 22
155965	Ratchet (88 T) 15	161294	Gear Set (75 WPM) 17	164656	Bar, Clutch Trip 22
155966	Drum, Ratchet 15	161295	Gear Set (100 WPM) 17	165656	Cable Assembly 24
155967	Washer, Spring 15	161301	Post 17	165659	Bracket 21
155968	Washer, Flat 15	161346	Washer, Felt 12	165660	Insulator (.062") 21
155969	Bracket 15	161826	Plate 5	165661	Cable W/Terminals 21
155991	Keytop Assembly 16	161831	Washer, Spring 4	165662	Stud 21
155992	Cable Assembly 16	161878	Cable Assembly 24	165663	Insulator (1-10) 21
155994	Insulator (.015") 16	161891	Plate, Keytop Guide 7	165676	Cap (Green) 7
156226	Hub 4	161892	Cable Assembly 24	165678	Lamp (55 V) 7
156448	Bushing 5	161895	Shaft 4	165679	Cable Assembly 24
156449	Lever, Switch 5	161896	Gear (33 T) 4	165680	Bracket, Fuse Holder 21
156450	Screw (2-56 x 1/2 Fil) 16	161897	Gear (33 T) 4	165681	Bracket, Mounting 21
156451	Bushing 5	161899	Spacer 4	165682	Bracket 21
156503	Wick, Felt 11	161900	Bracket, Gear Guard 4	170324	Bracket 8
156509	Washer, Flat 12	161901	Bracket, Gear Guard 4	170385	Frame 10
156156	Latch 12	161902	Plate 4	170386	Guide 12
156574	Post, Spring 9	161903	Bracket 3	170391	Guide 12
156630	Washer, Felt 12	161904	Plate, Nut 3	172721	Cable Assembly 24
156632	Screw (6-40 x 13/32 Hex) 7, 15	161905	Bracket 3	173096	Stud, Eccentric 13
156644	Link, Drive 14	161906	Plate 7	173396	Cable Assembly 24
156663	Insulator 14	161907	Plate 7	173793	Gear (100 T) 17
158019	Baffle, Character Counter 15	161908	Post, Supporting 3	173794	Pinion (14 T) 17
158021	Bracket, Switch 15	161909	Socket, Lamp 7	173795	Gear Set (65 WPM) 17
158031	Bail, Feed 15	161910	Cap (Amber) 7	173922	Cable Assembly 24
158032	Bail, Reset 15	161911	Knob (Black) 7	173974	Screw (10-32 s 5/16 Hex) 3
158033	Spacer 15	161912	Switch (SP-ST) 7	174250	Pin, Roll 18
158036	Lever, Reset 15	161925	Guide, Tape 4	174491	Modification Kit: To Provide R.F. Suppression Filter 14
158038	Lever 15	161926	Guide, Tape 4	176406	Bracket 16
158040	Lever, Ratchet Drive 15	161927	Guide, Tape 4	176407	Lever 16
158042	Lever, Latch 15	161932	Cap (Red) 7	178306	Relay, Power 21
158045	Stud 15	161942	Plate 3	178535	Suppressor, Spark 21
158046	Bracket, Counter Scale 15	161950	Bracket 2	178725	Spring 15
158047	Scale, Counter 15	161951	Bracket 4	178726	Bracket, Spring 15
158050	Switch, Contact 15	161954	Socket, Lamp 7	178728	Modification Kit: To Improve Character Counter Mechanism 15
158051	Pulley, Indicator Cord 15	161957	Lamp (6 V) 7	178839	Nut (11/32-32 Hex) 7
158052	Cam, Switch 15	161964	Clamp, Tube 3	178849	Cord Assembly 15
158053	Clamp, Ratchet Drum 15	161965	Resistor (1000 Ohm) 3	178851	Pulley 15
158054	Cord Assembly 15	162333	Stud, Locating 6	179258	Bracket, Scale 15
158056	Cord, Reset 15	162659	Retainer 18	179278	Drum, Ratchet 15
158063	Bracket, Stop 8	163368	Camsleeve 11	179279	Bracket 15
158105	Bar, Carriage Return Code 8	163440	Gear (48 T) 6	192681	Screw (4-40 Spl) 9
158107	Bar, Character Counter Code 8	163442	Cable Assembly 5	192797	Chute, Chad 23
158147	Bushing, Eccentric 15	163459	Gear (66 T) 4	192798	Plate, Mounting 23
158163	Switch, Sensitive 3, 5	163460	Gear (55 T) 6	192999	Modification Kit 23
158215	Plate, Nut 2, 3, 15, 21	163461	Pinion (18 T) 17	193560	Bag, Chad (10" Lg) 23
158239	Lever, Tape 5	163462	Gear (117 T) 17	193561	Casing, Fan Wheel 23
158268	Latch W/Hub 13	163463	Pinion (24 T) 17	193579	Clamp, Tube 23
158289	Reel, Tape 5	163464	Gear (104 T) 17	193644	Bag, Chad (30" Lg) 23
158745	Clamp, Bearing 4, 18	163503	Gear (26 T) 4	193654	Clamp, Armature 22
158753	Armature 22	163504	Gear Set (71 WPM) 17	193715	Spring, Contact 22
158754	Core, Magnet 22	163505	Gear Set (107 WPM) 17	193718	Bracket, Contact 22
158859	Post, Spring 22	163519	Sleeve, Gear 11	193719	Contact Assembly 22
159278	Pinion (14 T) 17	163522	Transformer 3	193800	Modification Kit 22
159279	Gear (96 T) 17	163590	Gear (60 T) 4	195186	Screw (4-40 x 7/8 Hex) 14
159281	Pinion (17 T) 17	163647	Channel, Ball 9	195403	Tubing (7-1/2" Lg) 23
159282	Gear (93 T) 17	163813	Plate 16		
159284	Pinion (20 T) 17	163814	Lever W/Hub 16		



28 ELECTRICAL SERVICE UNIT (LESU)
for
REPERFORATORS
PARTS

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5	176448 Relay Motor Control Assembly	6
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9	176694 Motor Control Assembly	9
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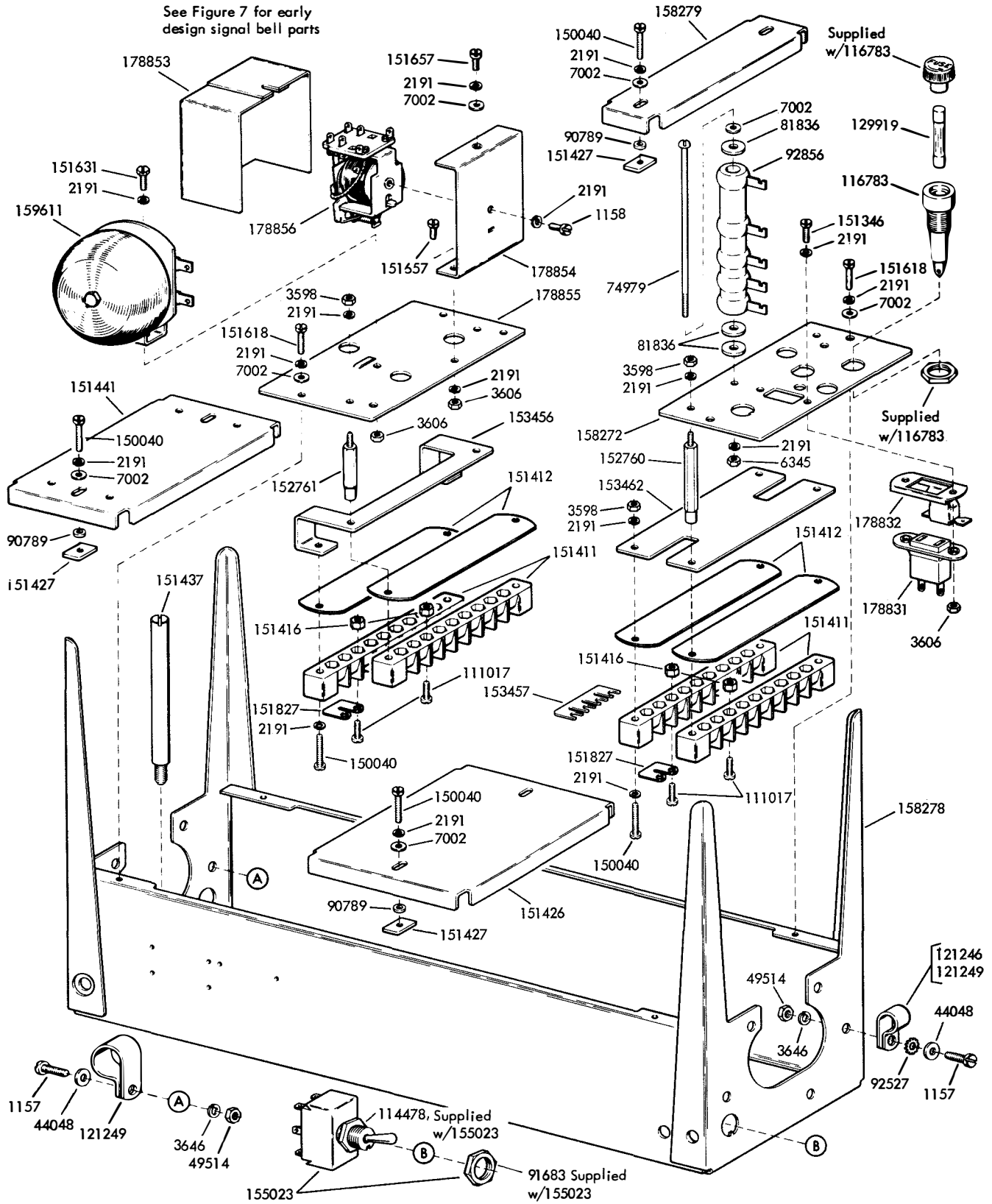


FIGURE 1. ELECTRICAL SERVICE UNIT (LESU)

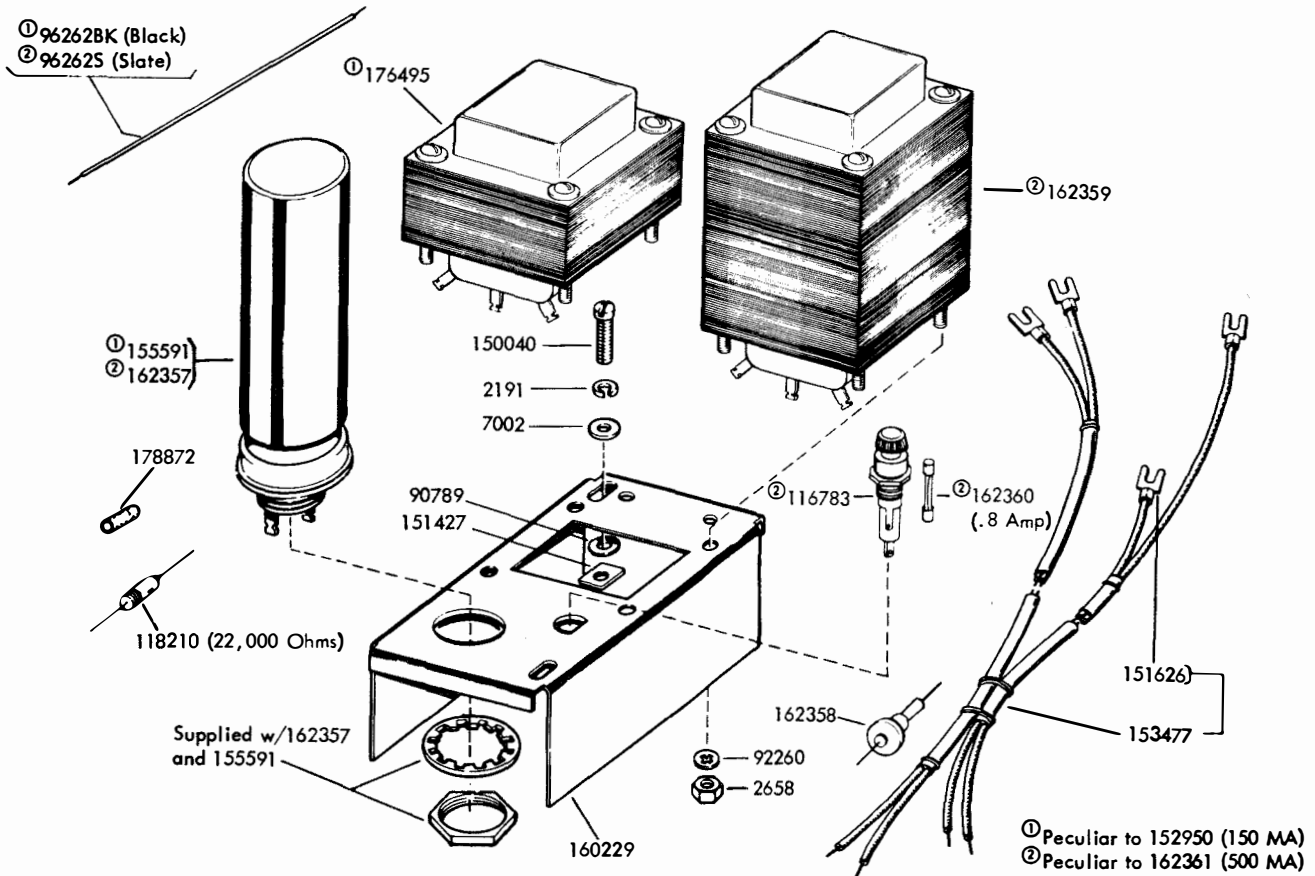
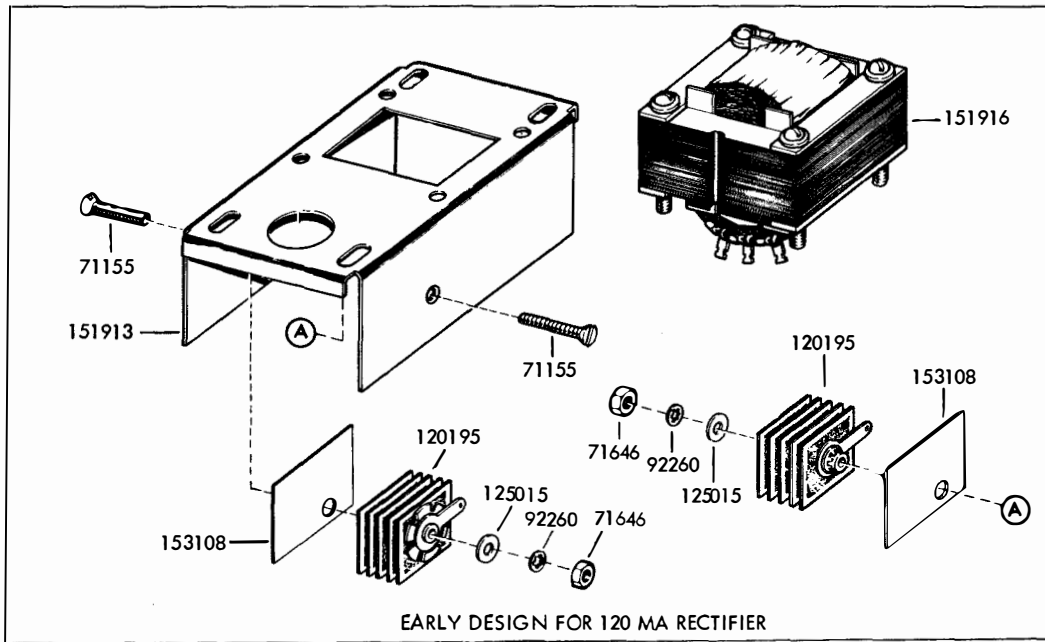


FIGURE 3. 152950 AND 162361 RECTIFIER ASSEMBLIES

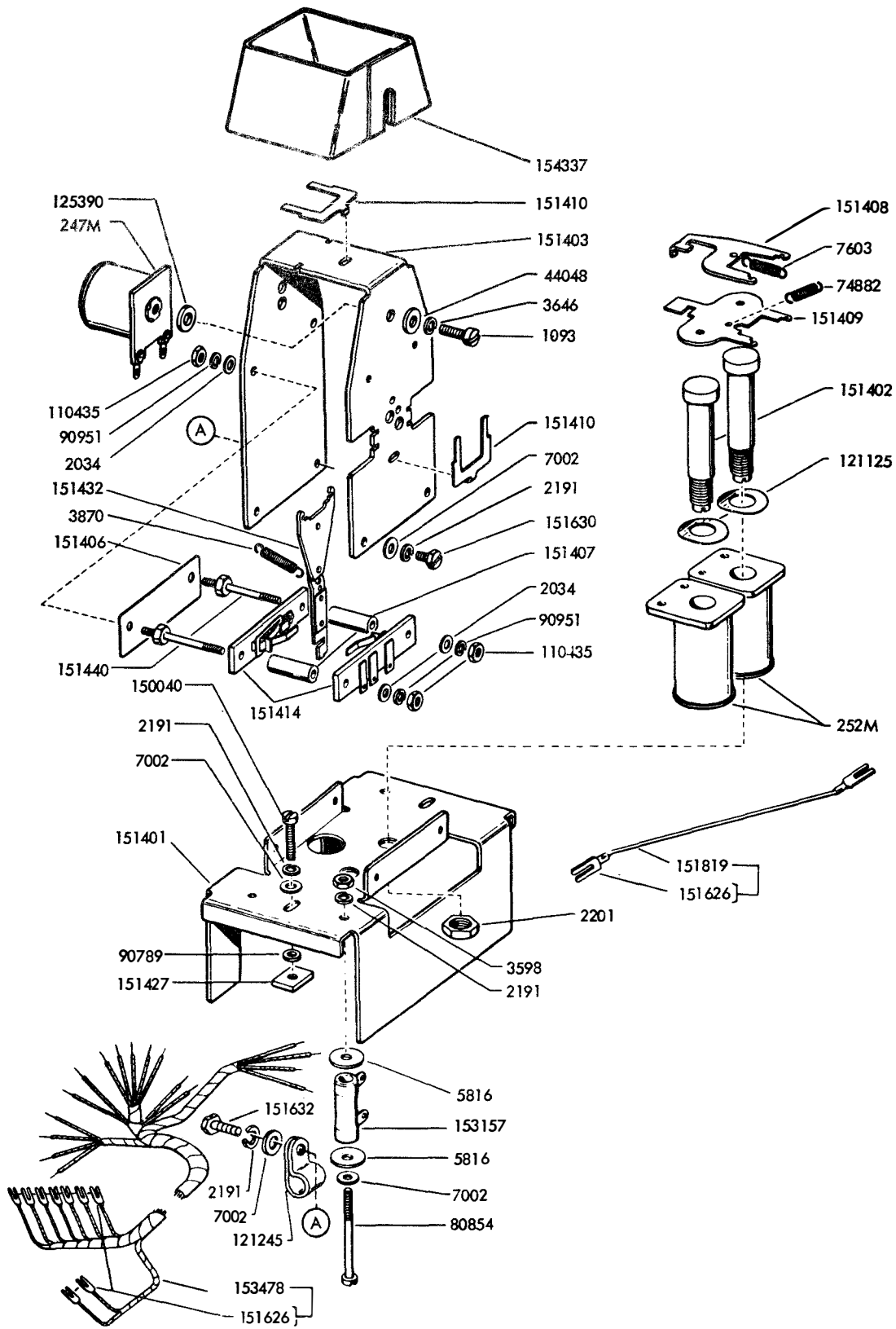


FIGURE 4. 153251 MOTOR CONTROL ASSEMBLY

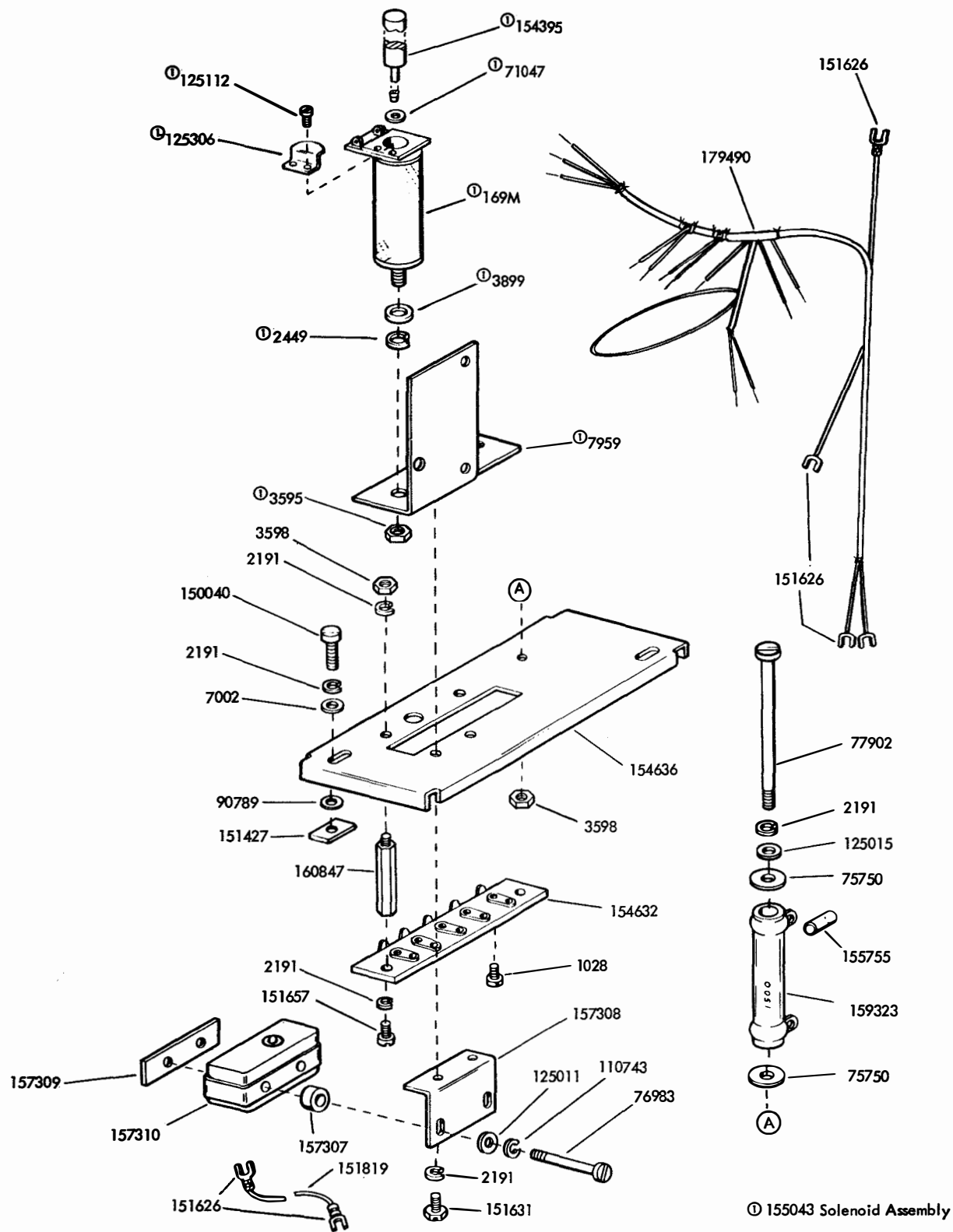


FIGURE 5. 176448 RELAY MOTOR CONTROL ASSEMBLY

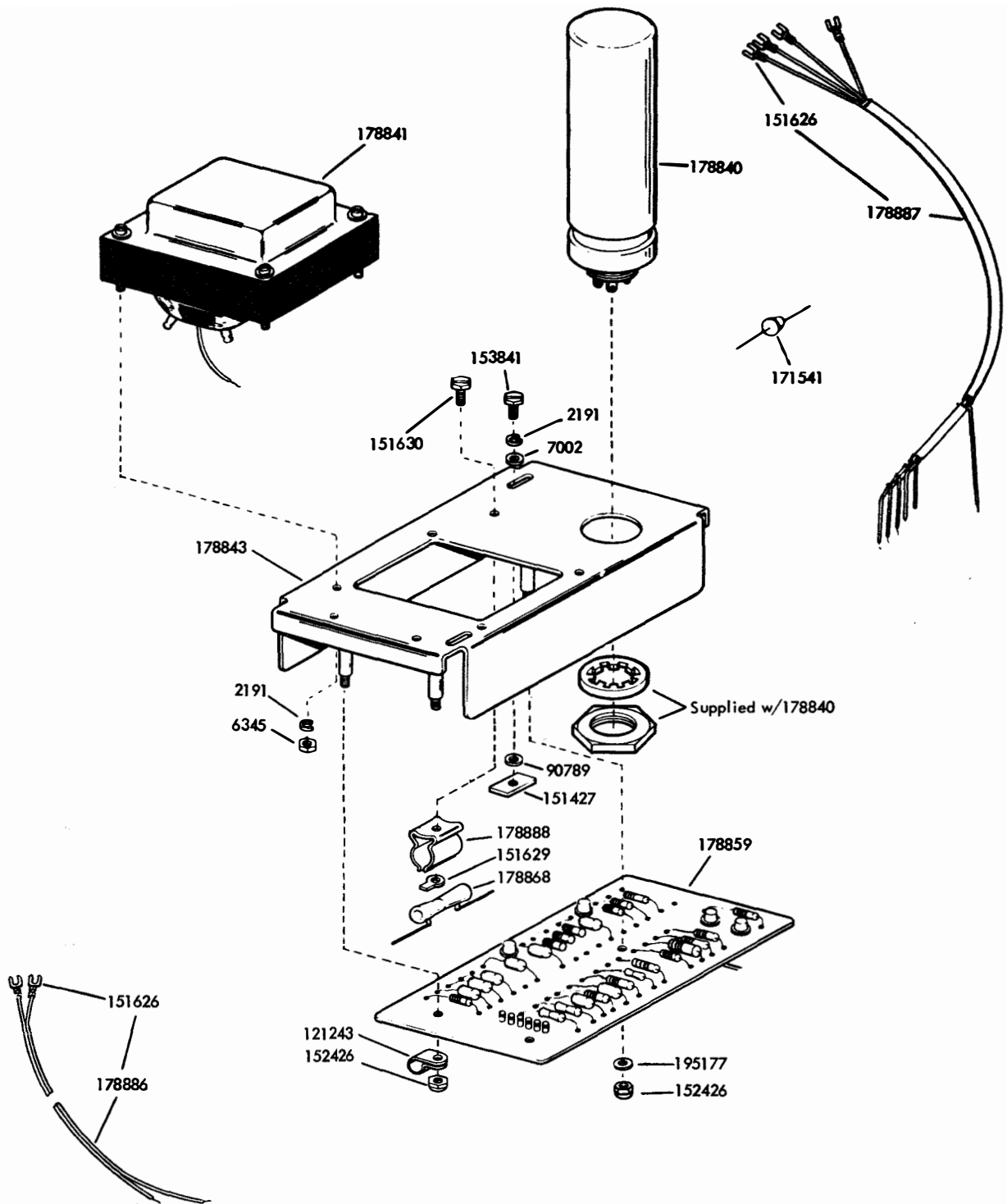


FIGURE 6. 177010 SELECTOR MAGNET DRIVER ASSEMBLY

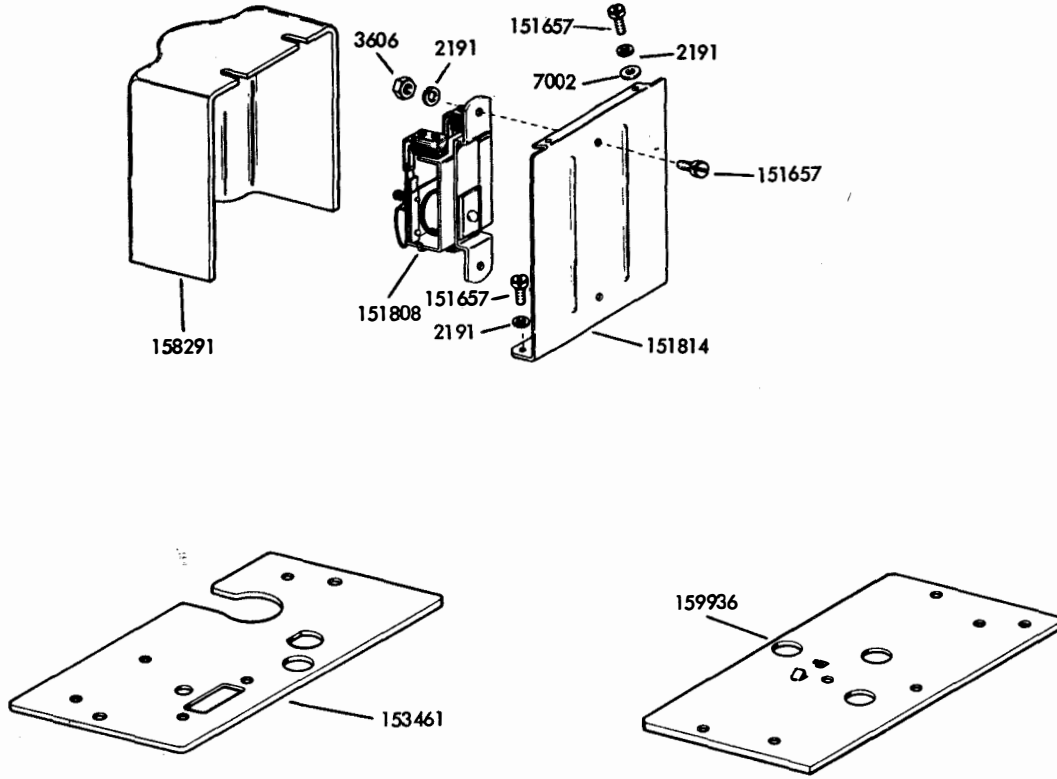


FIGURE 7. EARLY DESIGN LESU PARTS

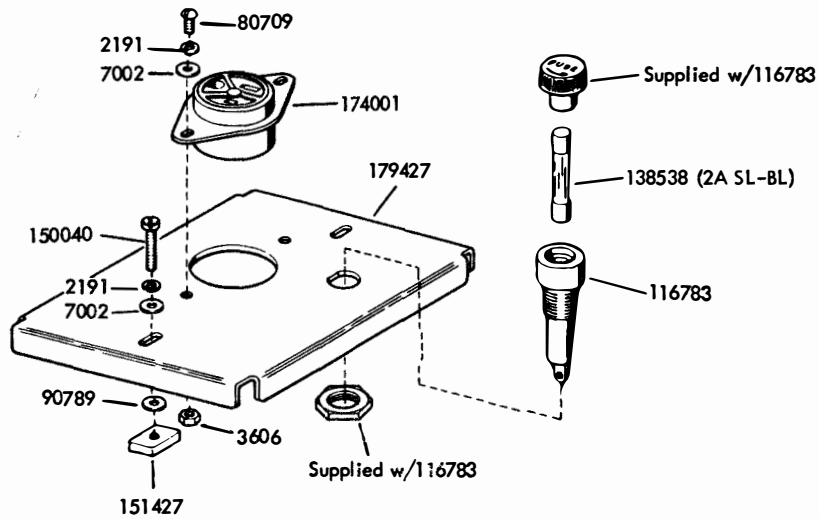


FIGURE 8. 179426 PLATE ASSEMBLY

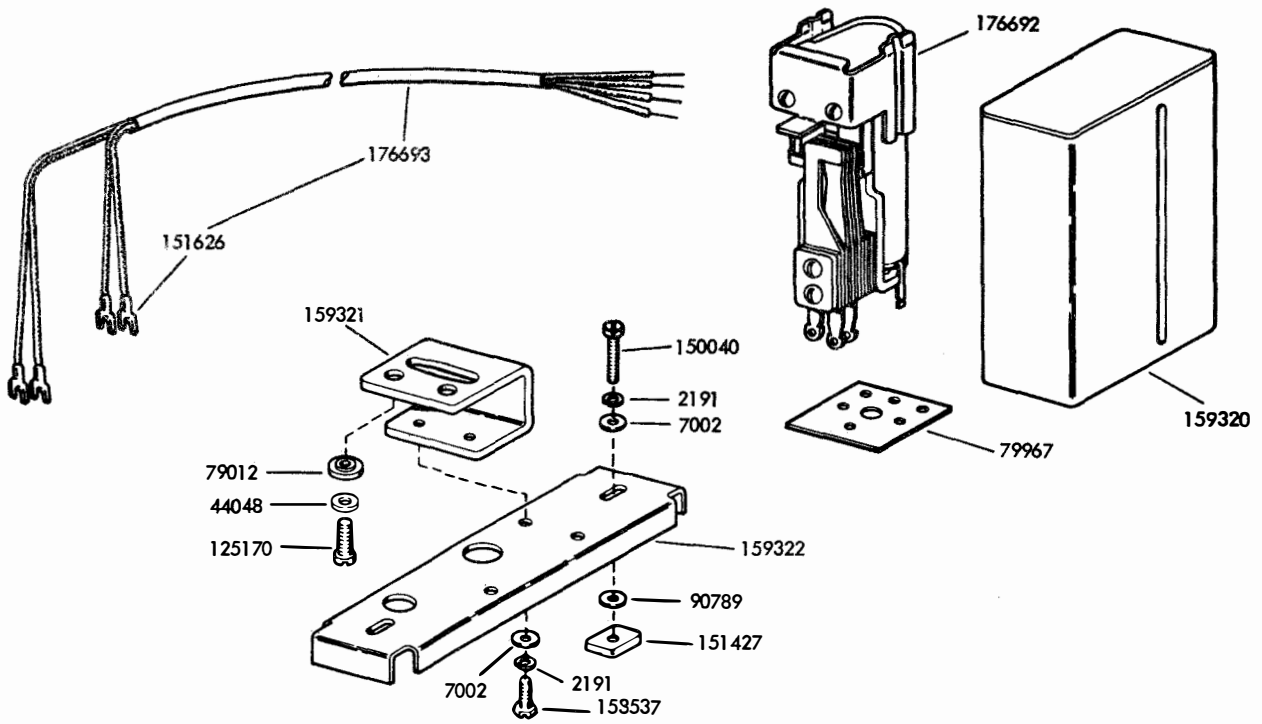


FIGURE 9. 176694 MOTOR CONTROL ASSEMBLY

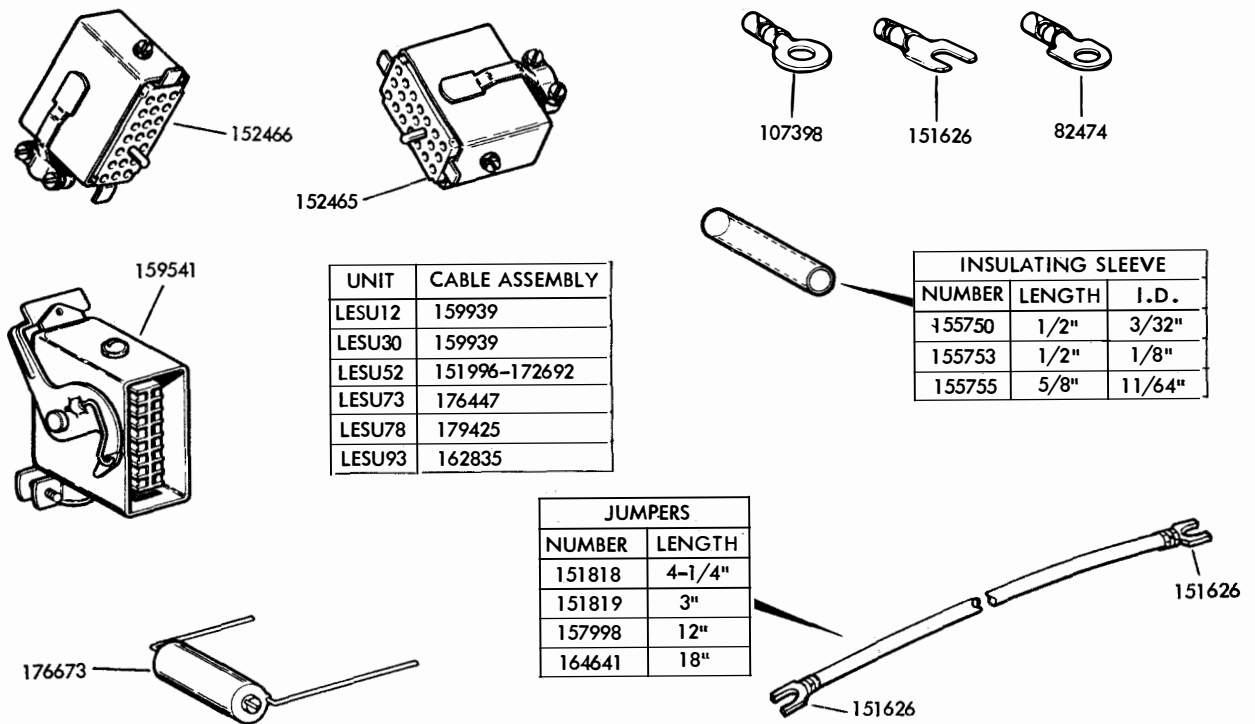


FIGURE 10. CABLES

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
169M	Coil, Magnet 6	125015	Washer, Flat 3, 4, 6	153482	Plate, Relay 3
247M	Coil, Magnet 5	125112	Screw, 2-56 x 1/8 Fil 6	153537	Screw, 6-40 x 9/32 Hex 9
252M	Coil, Magnet 5	125170	Screw, 8-32 x 5/16 Fil 9	153841	Screw, 6-40 x 9/16 Hex 7
1028	Screw, 4-40 x 1/4 Fil 3, 6	125306	Stop, Magnet Plunger 6	154335	Screw, 6-40 x 9/32 Fil 3
1093	Screw, 8-32 x 7/16 Fil 5	125390	Washer, Flat 5	154337	Cover 5
1157	Screw, 8-32 x 1/2 Fil 2	129919	Fuse, 4 Amp 2	154395	Plunger, Solenoid 6
1158	Screw, 6-32 x 5/16 Fil 2	138191	Screw, 3-48 x 1 Rd 3	154632	Block, Terminal 6
1248	Screw, 6-40 x 1/2 Flat 3	138538	Fuse, 2 Amp SL-BL 8	154636	Plate 6
2034	Washer, Flat 5	150040	Screw, 6-40 x 5/8 Fil 2 to 6, 8, 9	155023	Switch, DP-DT Toggle 2
2191	Washer, Lock 2 to 9	151346	Screw, 6-40 x 3/8 Fil 2	155043	Solenoid Assembly 6
2201	Nut, 5/16-32 Hex 5	151401	Base 5	155591	Capacitor, 220 MFD 4
2449	Washer, Lock 6	151402	Core 5	155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 9
2658	Nut, 6-32 Hex 4	151403	Frame 5	155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 9
3595	Nut, 1/4-32 Hex 6	151406	Plate, Insulating 5	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 6, 9
3598	Nut, 6-40 Hex 2, 3, 5, 6	151407	Collar, Spacing 5	157307	Spacer 6
3606	Nut, 6-40 Hex 2, 8	151408	Lever 5	157308	Bracket 6
3646	Washer, Lock 2, 5	151409	Armature 5	157309	Plate, Nut 6
3870	Spring 5	151410	Clip, Retaining 5	157310	Switch, Sensitive 6
3899	Spacer, .188" Thk 6	151411	Block, Terminal 2	157998	Jumper, 12" Lg Black 9
5816	Washer, Insulating 5	151412	Insulator 2	158272	Plate, Right Mounting 2
6345	Nut, 6-32 Hex 2, 7	151414	Switch, Sensitive 5	158278	Container 2
6827	Block 3	151416	Nut, 6-40 Hex 2	158279	Plate, 1-5/16 Blank 2
7002	Washer, Flat 2 to 9	151426	Plate, 3-3/4 Blank 2	158291	Cover, Relay 8
7603	Spring 5	151427	Plate, Clamp 2 to 9	159320	Cover, Relay 9
7959	Bracket, Magnet 6	151432	Armature 5	159321	Bracket, Relay 9
44048	Washer, Flat 2, 5, 9	151437	Stud 2	159322	Plate, Relay 9
49514	Nut, 8-32 Hex 2	151440	Stud 5	159323	Resistor, 1500 Ohm 6
71047	Washer, Flat 6	151441	Plate, 2-3/4 Blank 2	159541	Connector, 16 Pt Plug 9
71155	Screw, 6-32 x 1-1/4 Flat 4	151418	Screw, 6-40 x 7/16 Fil 2	159611	Bell 2
71646	Nut, 6-32 Hex 4	151626	Terminal 3 to 7, 9	159936	Plate, Left Mounting 8
74614	Resistor, 2600 Ohm 3	151629	Nut, 6-40 Lug 7	159939	Cable Assembly 9
74821	Resistor, 2810 Ohm 3	151630	Screw, 6-40 x 1/4 Hex 5, 7	160229	Plate, Mounting 4
74882	Spring 5	151631	Screw, 6-40 x 5/16 Hex 2, 6	160847	Stud 6
74979	Screw, 6-32 x 3-3/4 Rd 2	151632	Screw, 6-40 x 3/8 Hex 5	162357	Capacitor, 500 MFD 4
75750	Washer, Insulating 3, 6	151657	Screw, 6-40 x 1/4 Fil 2, 3, 6, 8	162358	Diode 4
76983	Screw, 4-40 x 1-1/4 Fil 6	151808	Relay 8	162359	Transformer, Power 4
77902	Screw, 6-40 x 2-3/8 Rd 3, 6	151814	Bracket, Relay Mounting 8	162360	Fuse, .8 Amp 4
79012	Insulator 9	151818	Jumper, 4-1/4" Lg Black 9	162361	Rectifier Assembly, 500 MA 1, 4
79967	Insulator 9	151819	Jumper, 3" Lg Black 3, 5, 6, 9	162835	Cable Assembly 9
80709	Screw, 6-40 x 1/4 Rd 8	151827	Strap, Terminal 2	164641	Jumper, 18" Black 9
80854	Screw, 6-40 x 1-7/16 Fil 5	151913	Plate, Mounting 4	171541	Diode 7
81836	Washer, Insulating 2	151916	Transformer 4	172692	Cable Assembly 9
82474	Terminal 9	151996	Cable w/Terminals 9	174001	Connector, 3 Pt Receptacle 8
82516	Spring, Retaining 3	152109	Filter 3	176447	Cable 9
89548	Spring, Contact 3	152110	Bracket, Resistor Mounting 3	176448	Control Assembly, Relay Motor 1, 6
90789	Washer, Flat 2 to 9	152124	Spacer 3	176495	Transformer, Power 4
90951	Washer, Lock 5	152426	Nut 7	176673	Suppressor, Spark 9
91683	Nut, 15/32-32 Hex 2	152465	Connector, 20 Pt Receptacle 9	176692	Relay 9
92260	Washer, Lock 4	152466	Connector, 20 Pt Receptacle 9	176693	Cable w/Terminal 9
92527	Washer, Lock 2	152623	Mounting Assembly, Line Relay 1, 3	176694	Control Assembly, Motor 1, 9
92856	Resistor, 1500 Ohm 2	152760	Stud 2	177010	Driver Assembly, Selector Magnet 1, 7
96262BK	Jumper, 4" Lg Black 4	152761	Stud 2	178831	Connector 2
96262S	Jumper, 4" Lg Slate 4	152950	Rectifier Assembly, 150 MA 1, 4	178832	Plate, Adapter 2
107398	Terminal 9	153108	Insulator, .031" Thk 4	178840	Capacitor, 400 MFD 7
110435	Nut, 4-40 Hex 5	153157	Resistor, 400 Ohm 5	178841	Transformer 7
110743	Washer, Lock 6	153251	Control Assembly, Motor 1, 5	178843	Plate, Mounting 7
111017	Screw, 6-40 x 5/16 Fil 2	153456	Bracket 2	178853	Cover, Relay 2
114478	Nut, 15/32-32 Hex 2	153457	Strap, Terminal 2	178854	Bracket, Relay 2
116783	Holder, Fuse 2, 4, 8	153461	Plate, Right Mounting 8	178855	Plate, Left 2
118210	Resistor, 22,000 Ohm 4	153462	Plate 2	178856	Relay 2
120195	Rectifier 4	153464	Block, Terminal 3	178859	Card, Circuit 7
121125	Washer, Spring 5	153475	Cable w/Terminals 3	178868	Resistor, 700 Ohm 7
121243	Clamp, 3/16 ID Cable 7	153477	Cable w/Terminals 4		
121245	Clamp, 5/16 ID Cable 5	153478	Cable w/Terminals 5		
121246	Clamp, 3/8 ID Cable 2	153480	Resistor, 6750 Ohm 3		
121249	Clamp, 5/8 ID Cable 2	153481	Resistor, 5800 Ohm 3		
125011	Washer, Flat 6				

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178872	Sleeve, 1/16 ID x 1-1/4" Lg Insulating 4	178888	Clip 7	179427	Plate, Cover 8
178886	Cable w/Terminals 7	179425	Cable Assembly 9	179490	Cable w/Terminals 6
178887	Cable 7	179426	Plate Assembly 1, 8	195177	Washer, Insulating 7



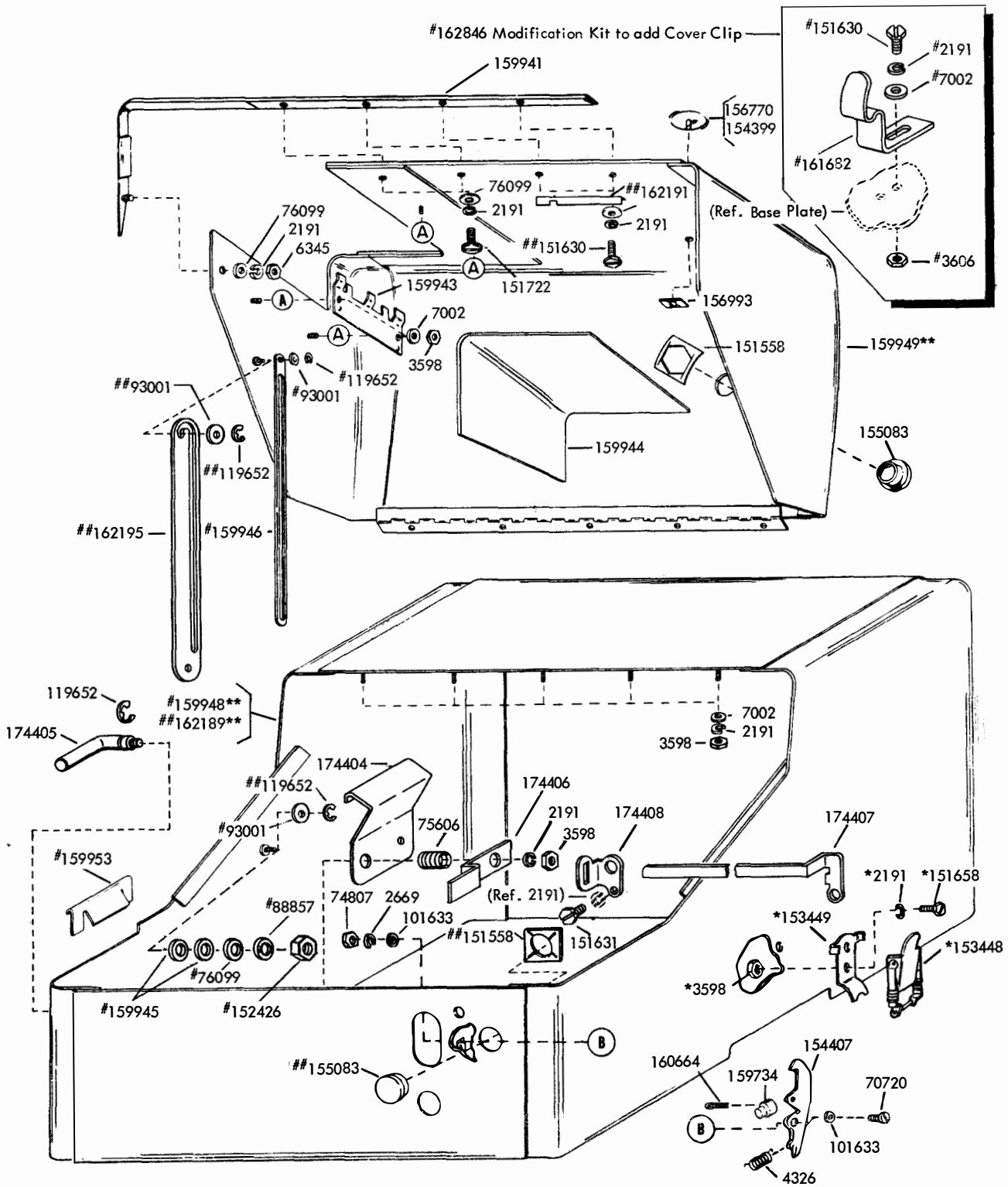
28 RECEIVING-ONLY REPERFORATOR OR TAPE PRINTER COVER (LRC),
28 SEND-RECEIVE REPERFORATOR OR TAPE PRINTER COVER (LSRC) and
28 REPERFORATOR OR TAPE PRINTER TABLE (LT)

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1	Receiving-Only Typing Reperforator Cover	2
2	Receiving-Only Non-Typing Reperforator Cover (Miniaturized)	3
3	Receiving-Only Typing Reperforator Cover (Miniaturized)	4
4	Send-Receive Cover	5
5	Tape Printer Sub-Base	6
6	Tape Printer Sub-Base	7
7	Tape Printer Cover	8
8	Table	9
9	Table with Fixed Lower Shelf	10
10	Table with Sliding Lower Shelf	11
11	Table with Facilities for Tape Winder	12
12	176615** Modification Kit to Adapt Base and Table for Use with Fully Perforated Punches	13
	Numerical Index	14

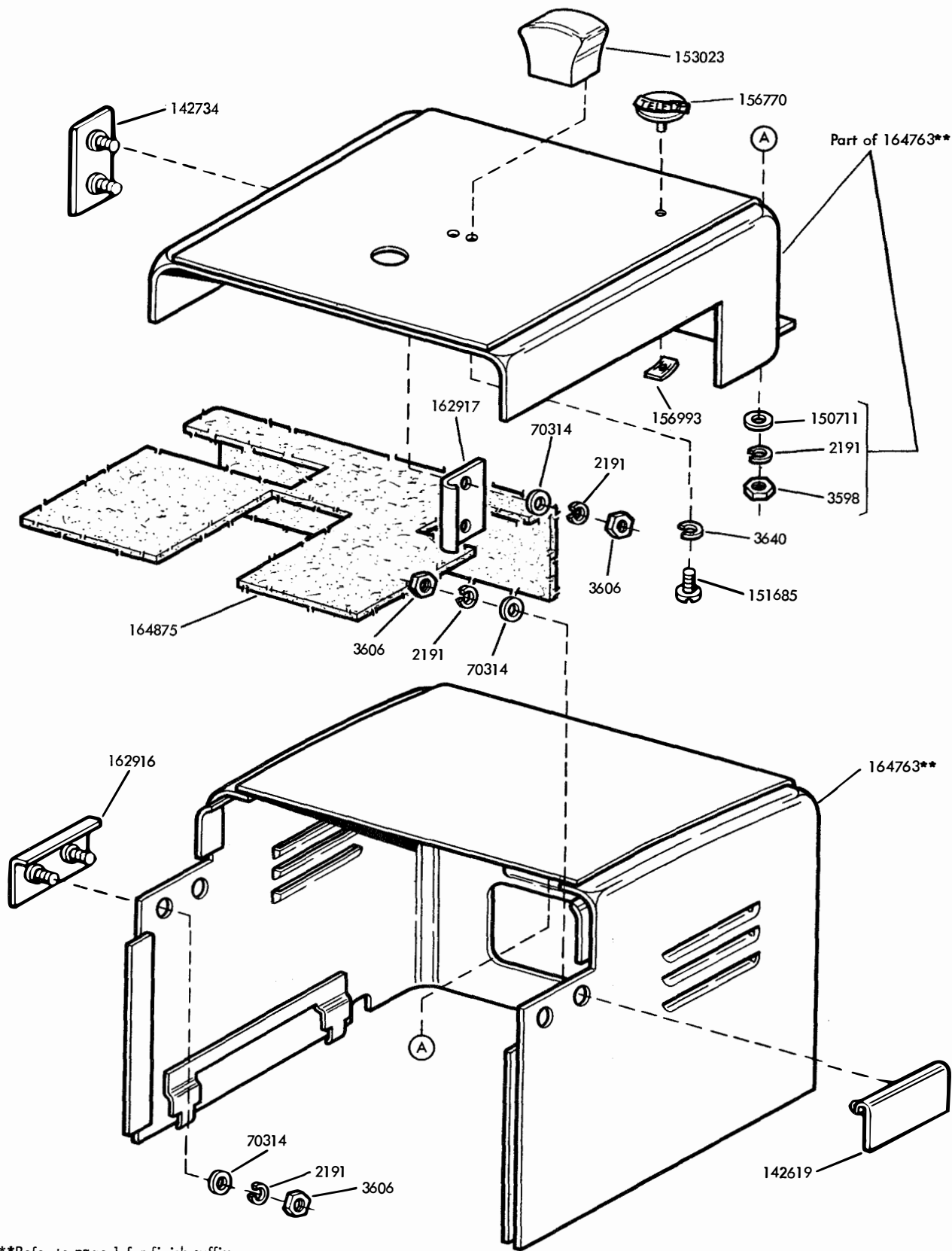
PAINT FINISH COLOR CODE CHART (For parts and assemblies requiring a paint finish)									
Color	Finish Suffixes				Color	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl		Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Black	AA (37)	BB			Brussels Light Blue		EC		
Dark Brown	AD (38)				Medium Blue		ES		
Gray Green	AB (40)	BK	GA (45)		Cherry Red		EF		
Charcoal Gray	AL	BZ		HA	Pastel Yellow		EG		
Dark Gray			GB		White		EH		
Light Gray		EJ		HB (68)	Ivory		EM		
Beige Gray			GC		Beige		ET		
Light Beige		EL		HC	Rose Beige		ER		
Moss Green		EN		HD	Rose Pink		EU		
Eye Rest Green		EA			Dark Covert Gray				HE
Turquoise		EV			Light Olive Gray	EW		GE	HF (46)
Aqua Blue		EK			Fawn				HG

The double asterisk (**) denotes a painted part. Suffix to be applied following the part number.
Number in parenthesis indicates Bell System code.



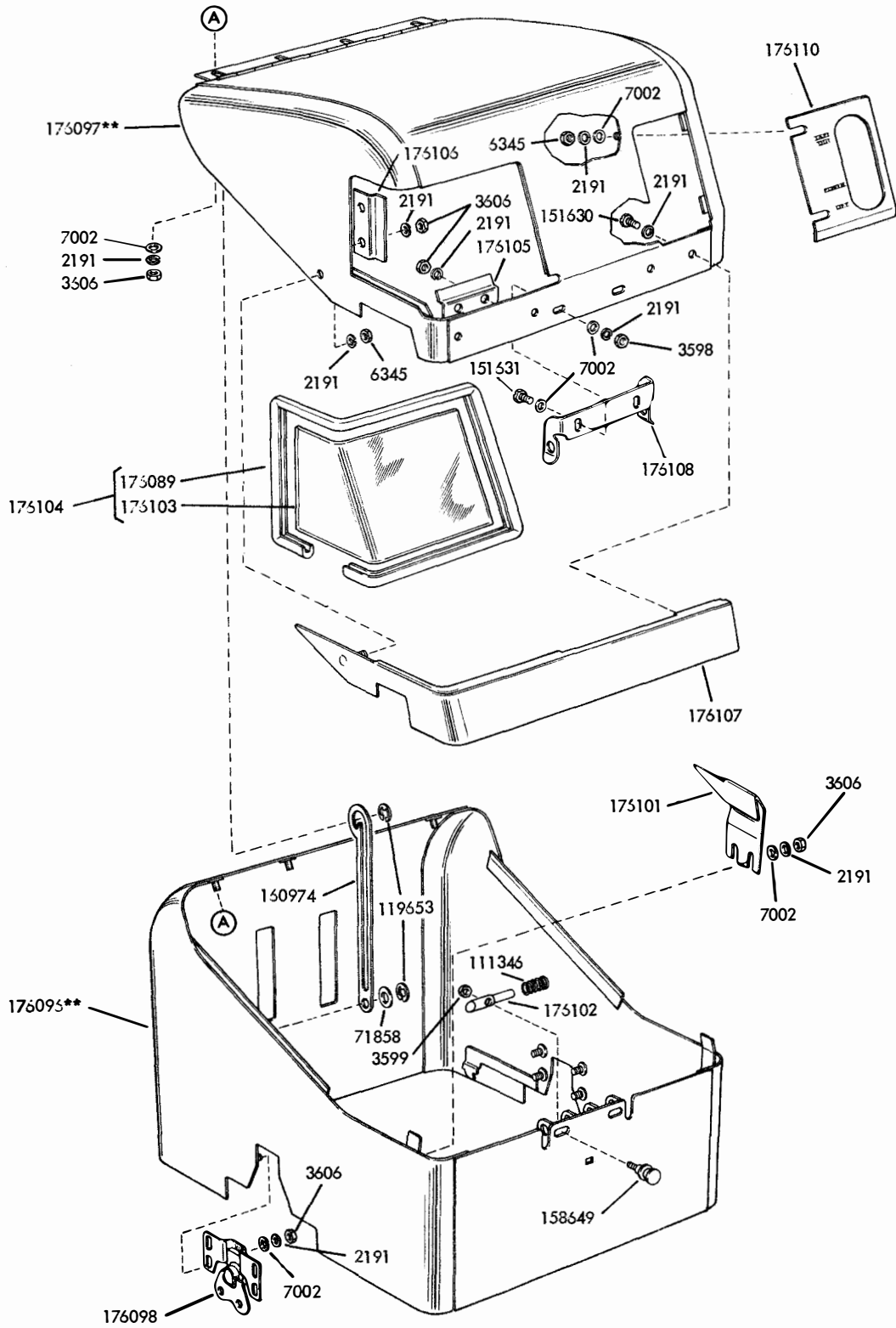
*Supplied with ##162189**
 **Refer to page 1 for finish suffix
 #Peculiar to cover without provision for motor power and tape feed-out switches.
 ##Peculiar to cover with provision for motor power and tape feed-out switches.

FIGURE 1. RECEIVING-ONLY TYPING REPERFORATOR COVER



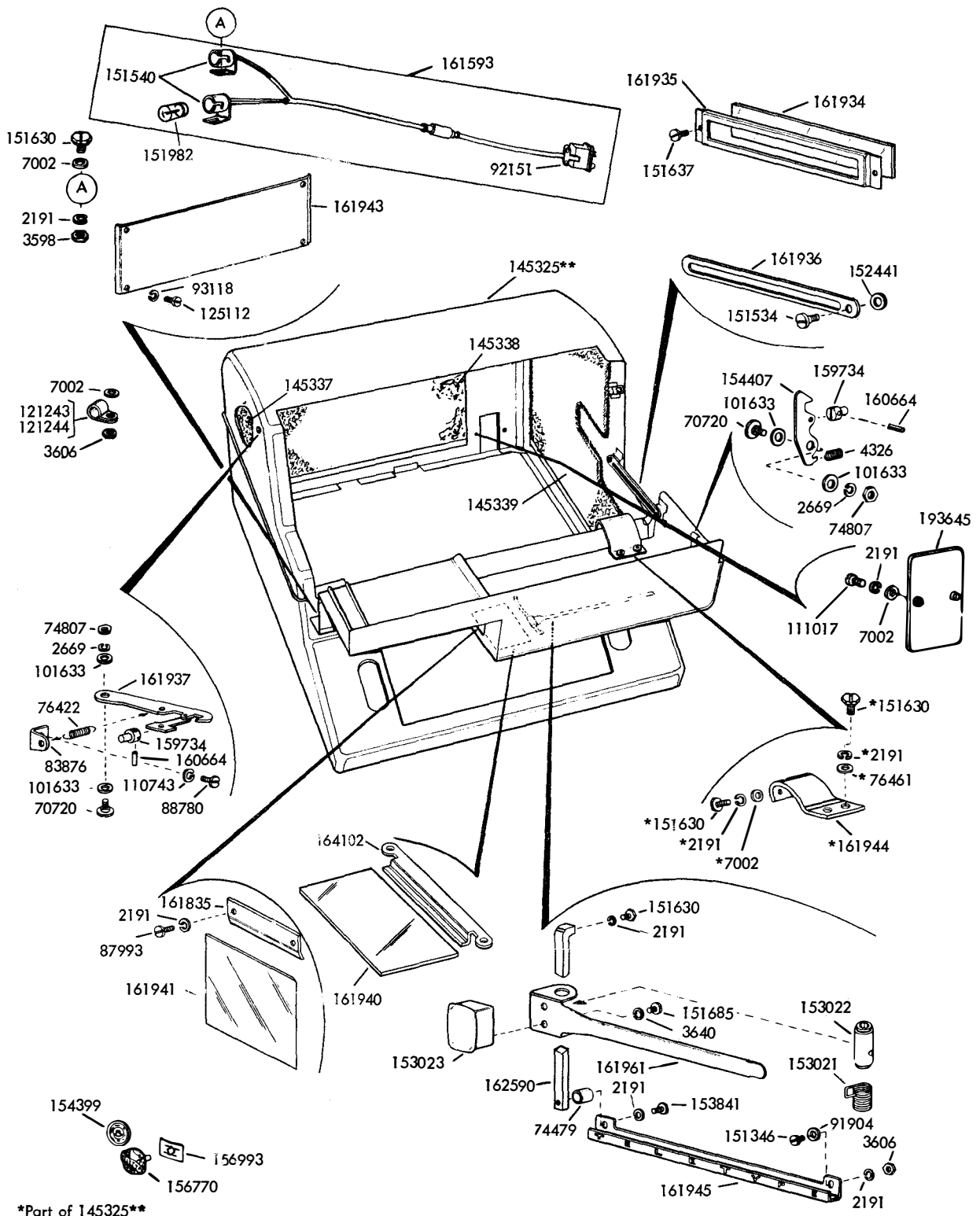
**Refer to page 1 for finish suffix

FIGURE 2. RECEIVING-ONLY NON-TYPING REPERFORATOR COVER (MINIATURIZED)



**Refer to page 1 for finish suffix

FIGURE 3. RECEIVING-ONLY TYPING REPERFORATOR COVER (MINIATURIZED)

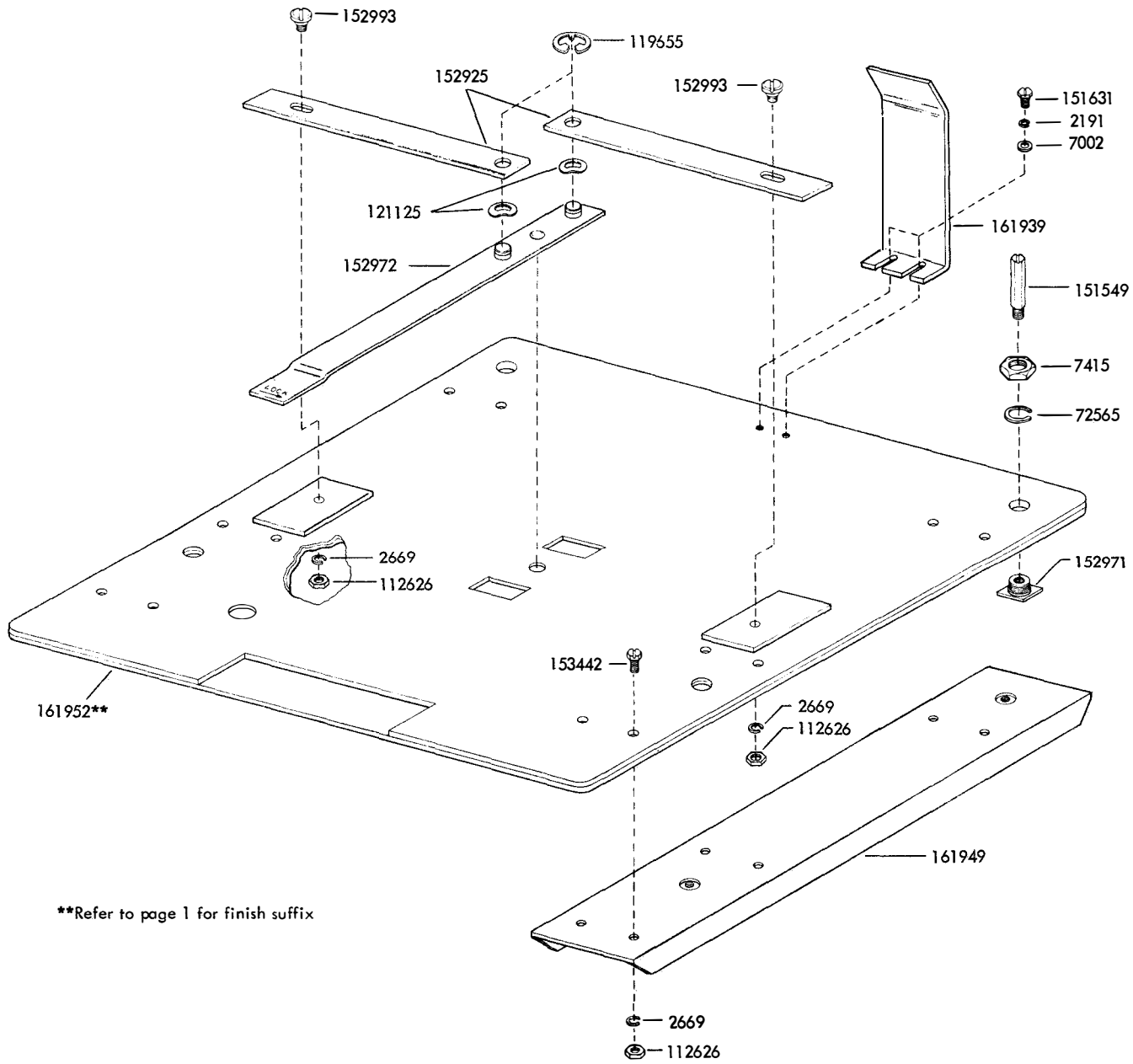


*Part of 145325**

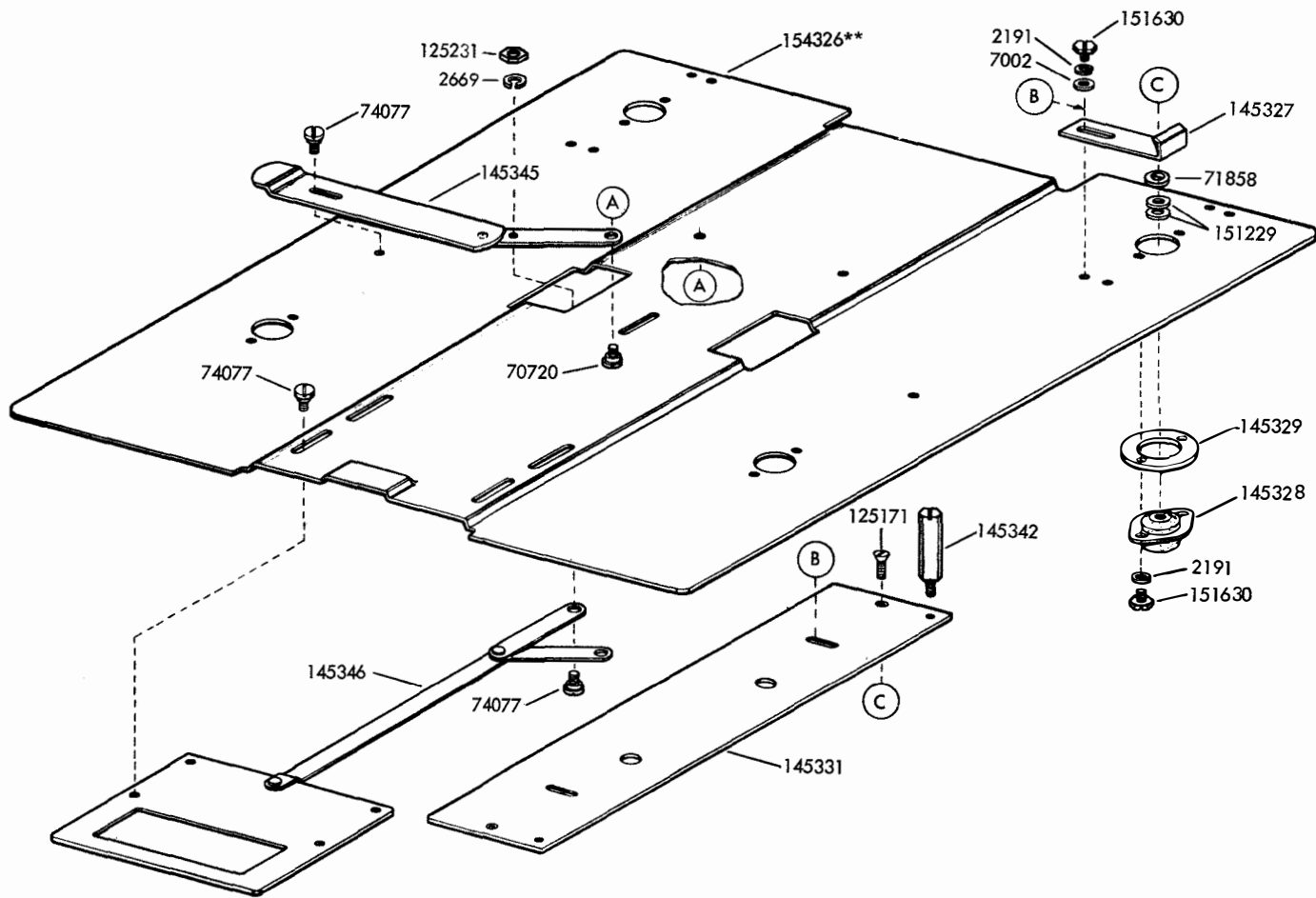
**Refer to page 1 for finish suffix

FIGURE 4. SEND-RECEIVE COVER

FIGURE 5. TAPE PRINTER SUB-BASE

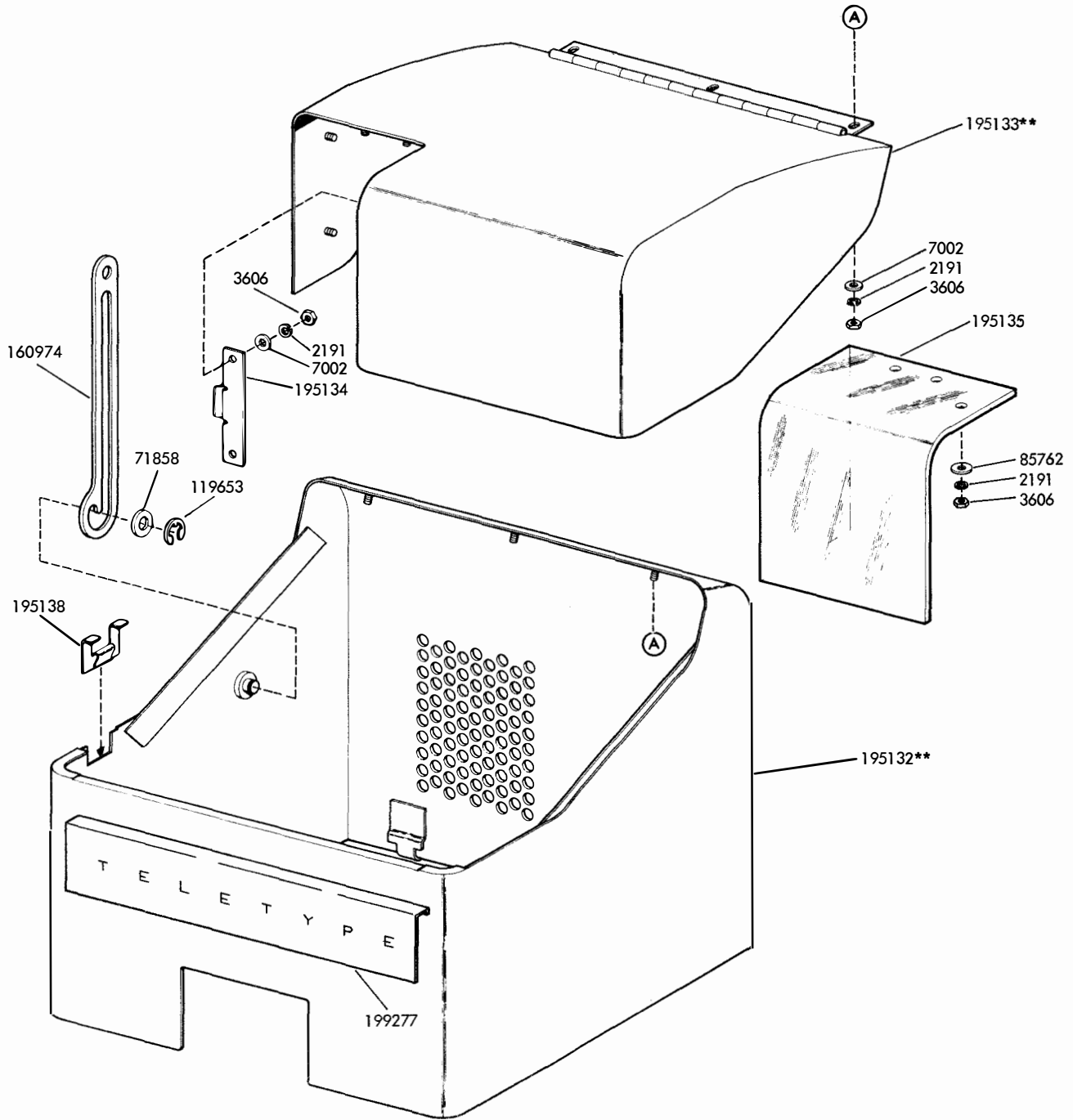


**Refer to page 1 for finish suffix



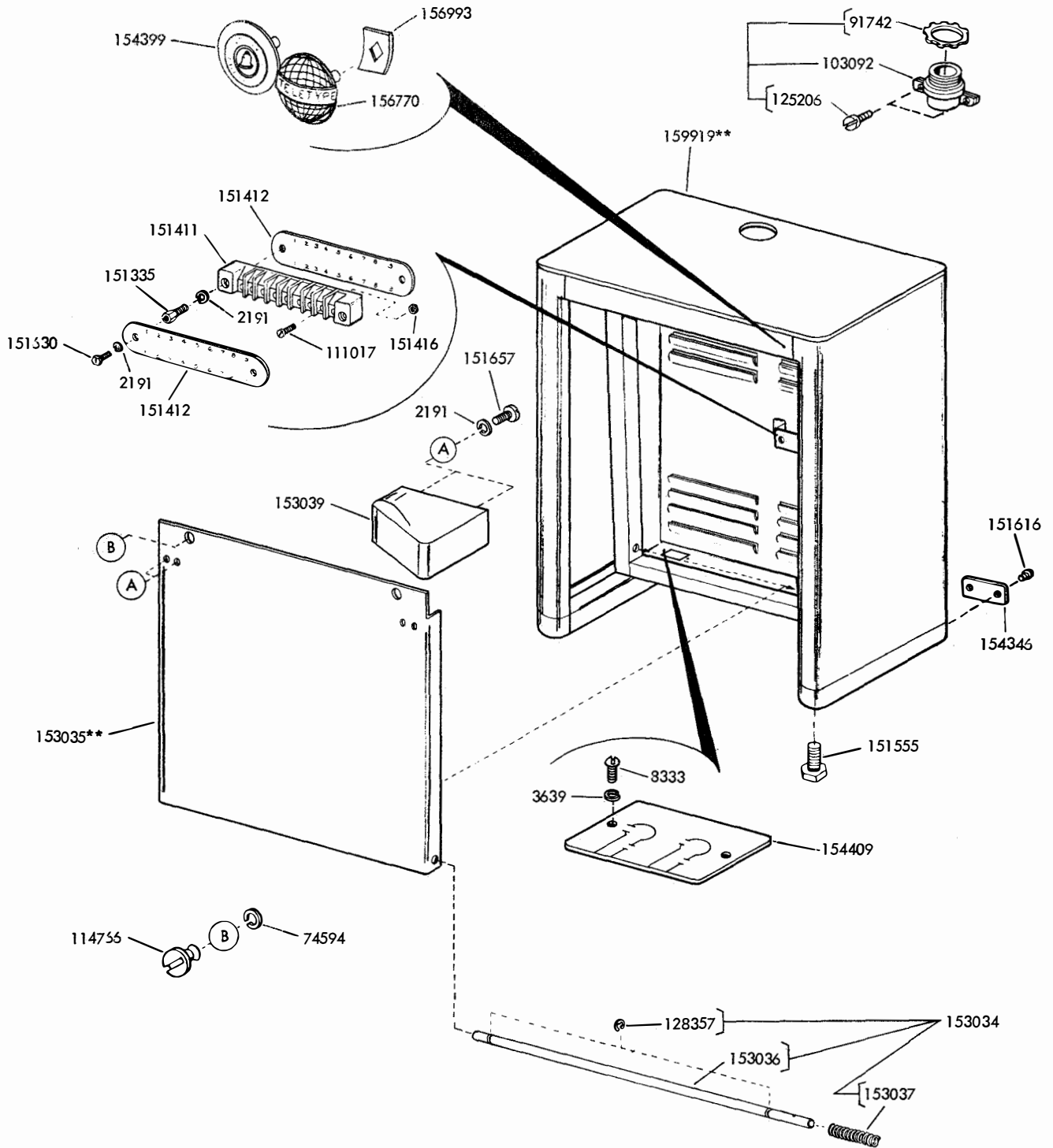
**Refer to page 1 for finish suffix

FIGURE 6. TAPE PRINTER SUB-BASE



**Refer to page 1 for finish suffix

FIGURE 7. TAPE PRINTER COVER



**Refer to page 1 for finish suffix

FIGURE 8. TABLE

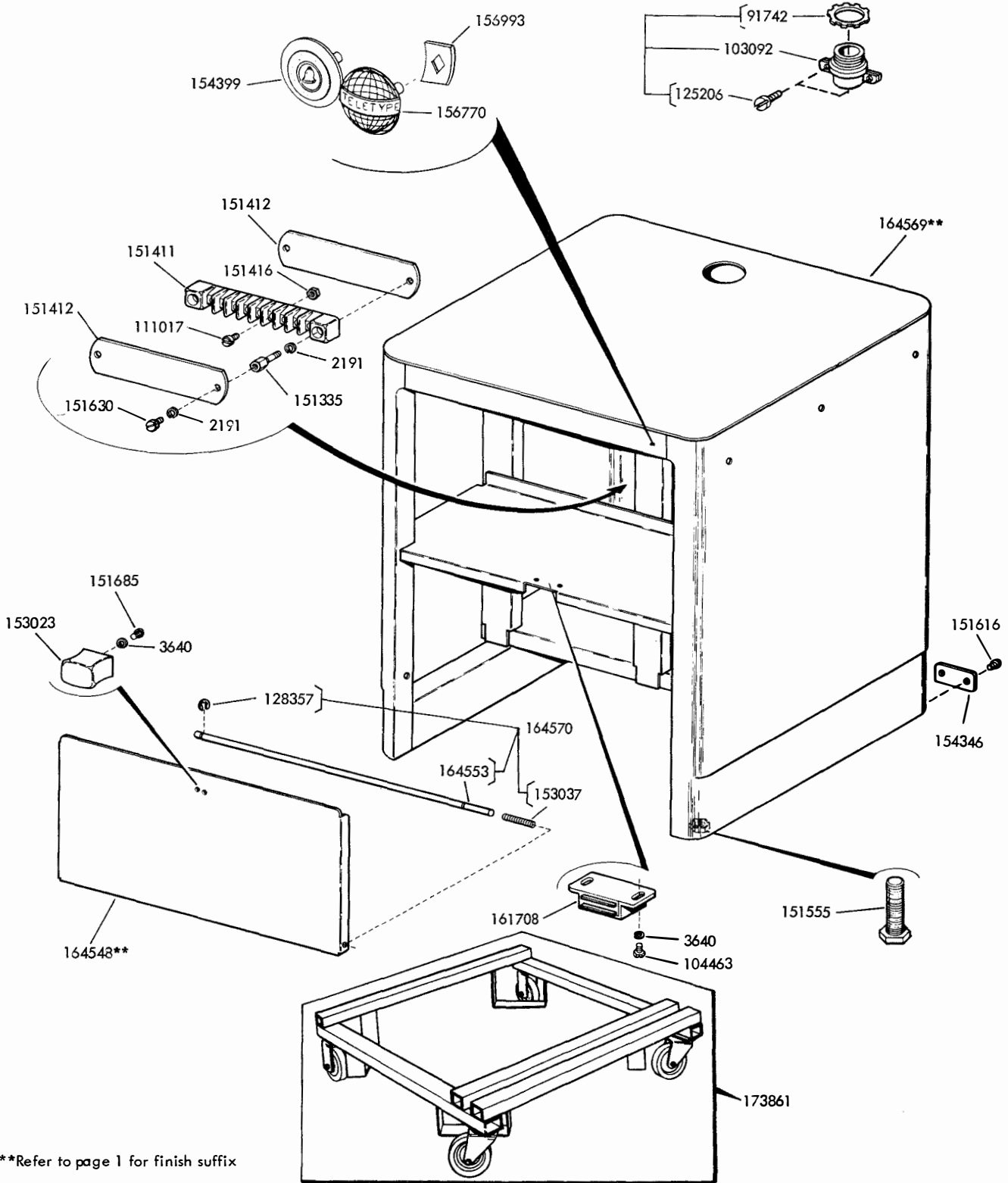
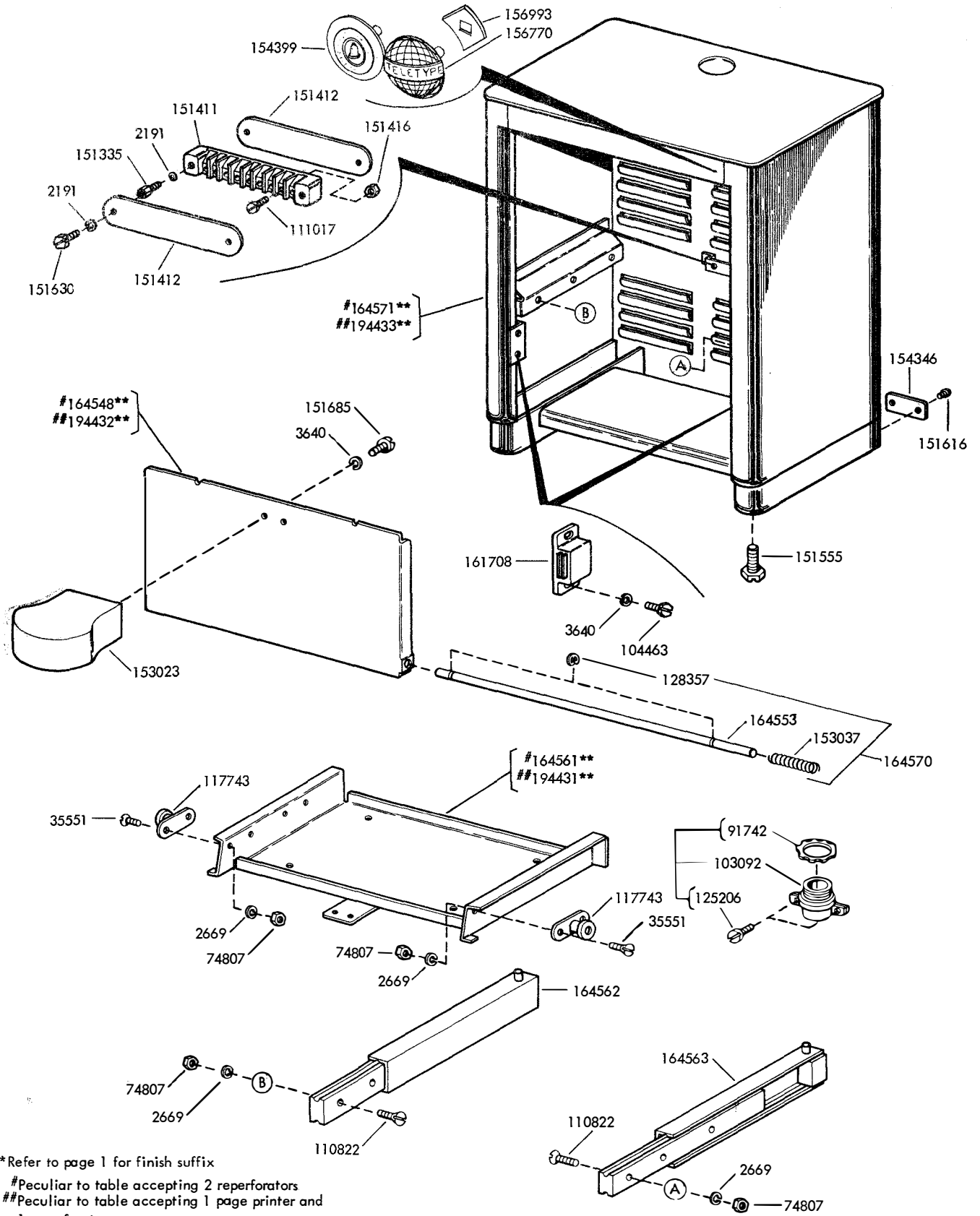
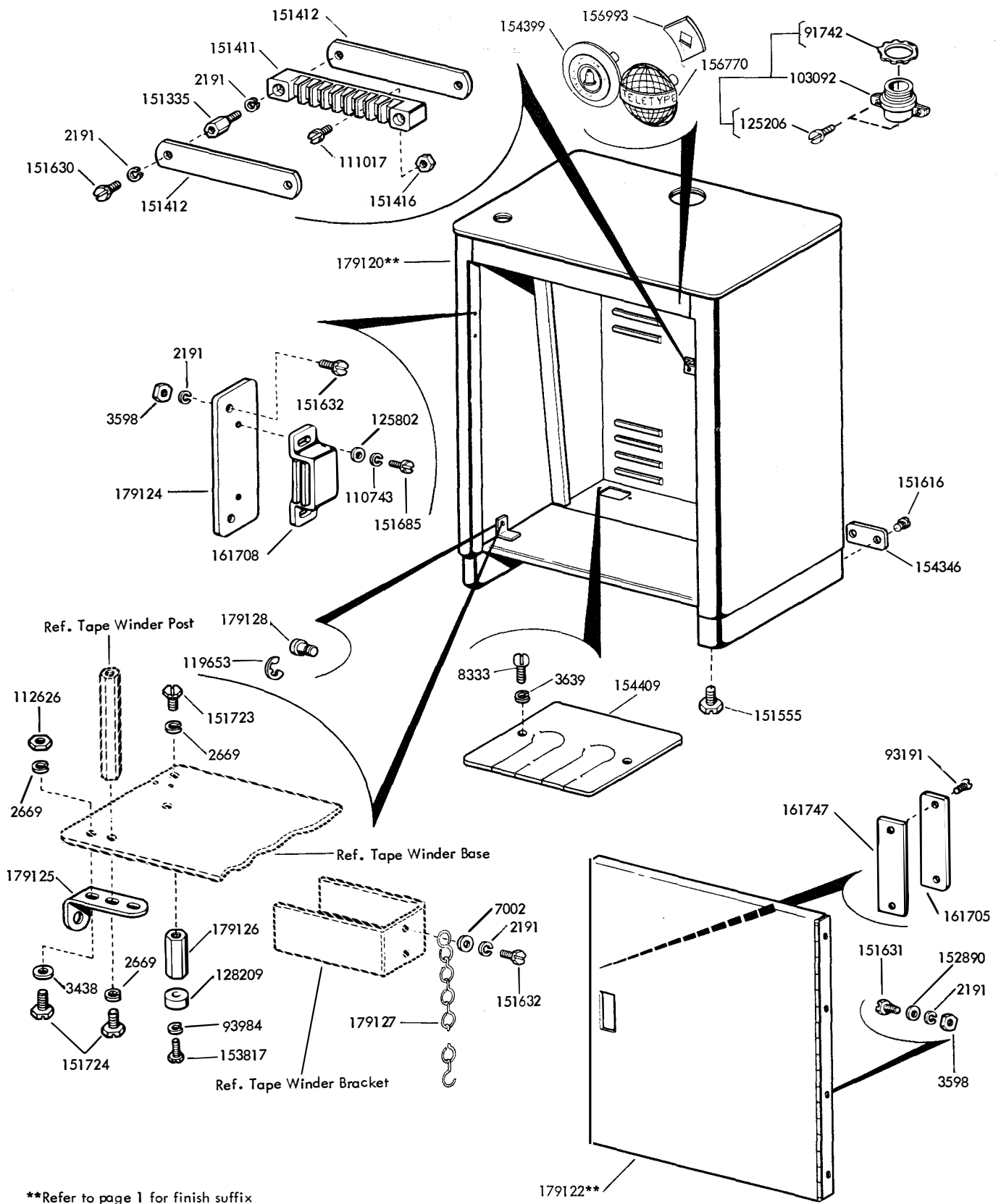


FIGURE 9. TABLE WITH FIXED LOWER SHELF



**Refer to page 1 for finish suffix
 #Peculiar to table accepting 2 reperfors
 ##Peculiar to table accepting 1 page printer and 1 reperfors.

FIGURE 10. TABLE WITH SLIDING LOWER SHELF



**Refer to page 1 for finish suffix

FIGURE 11. TABLE WITH FACILITIES FOR TAPE WINDER

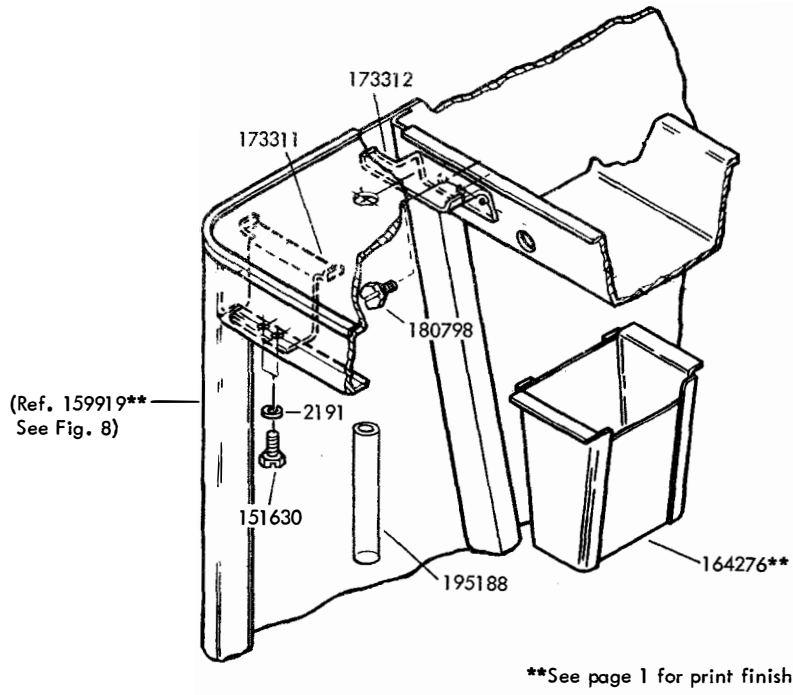


FIGURE 12. 176615** MODIFICATION KIT TO ADAPT BASE AND TABLE FOR USE WITH FULLY PERFORATED PUNCHES

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
2191	Washer, Lock 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	145327	Guide 7	158649	Screw, Thumb (4-40) 4
2669	Washer, Lock 2, 5, 6, 7, 11, 12	145328	Mount, Vibration 7	159734	Button 2, 5
3438	Washer, Flat 12	145329	Spacer (.065") 7	159919**	Table Assembly 9, 13
3598	Nut (6-40 Hex) 2, 3, 4, 5, 12	145331	Strap 7	159941	Handle 2
3599	Nut (4-40 Hex) 4	145337	Pad, Left Side 5	159943	Bracket, Window 2
3606	Nut (6-40 Hex) 2, 3, 4, 5, 8	145338	Pad, Rear 5	159944	Window, Plastic 2
3639	Washer, Lock 9, 12	145339	Pad, Right Side 5	159945	Washer, Friction 2
3640	Washer, Lock 3, 5, 10, 11	145342	Screw (1/4-32 Spl) 7	159946	Arm 2
4326	Spring 2, 5	145345	Bolt, Latch W/Lever 7	159948**	Cover W/Bracket 2
6345	Nut (6-32 Hex) 2, 4	145346	Lever, Reset 7	159949**	Lid W/Hinge 2
7002	Washer, Flat 2, 4, 5, 6, 7, 8, 12	150711	Washer, Flat 3	159953	Plate, Tape Guide 2
7415	Nut (1/2-32 Hex) 6	151229	Washer, Flat 7	160664	Pin, Roll 2, 5
8333	Screw (10-32 x 3/8 Rd) 12	151335	Stud 9, 10, 11, 12	160974	Arm, Stop 4, 8
35551	Screw (10-32 x 3/8 Flat) 11	151346	Screw (6-40 x 3/8 Fil) 5	161593	Cable Assembly 5
70314	Washer, Flat 3	151411	Block, Terminal 9, 10, 11, 12	161682	Clip, Cover 2
70720	Screw, Shoulder (10-32) 2, 5, 7	151412	Insulator (1-9) 9, 10, 11, 12	161705	Strike, Fastener 12
71858	Washer, Flat 4, 7, 8	151416	Nut (6-40 Hex) 9, 10, 11, 12	161708	Latch, Magnetic 10, 11, 12
72565	Washer, Lock 6	151534	Screw, Shoulder (10-32) 5	161747	Plate, Nut 12
74077	Screw, Shoulder (10-32) 7	151540	Lampholder 5	161835	Plate, Clamp 5
74479	Bushing 5	151549	Post 6	161934	Window, Plastic 5
74594	Ring, Retaining 9	151555	Foot, Mounting 9, 10, 11, 12	161935	Frame, Window 5
74807	Nut (10-32 Hex) 2, 5, 11	151558	Nut, Speed 2	161936	Latch W/Link 5
75606	Spring 2	151616	Screw, Self-Tapping (#2) 9, 10, 11, 12	161937	Latch W/Link 5
76099	Washer, Flat 2	151630	Screw (6-40 x 1/4 Hex) 2, 4, 5, 7, 9, 10, 11, 12, 13	161939	Bracket, Guide 6
76422	Spring 5	151631	Screw (6-40 x 5/16 Hex) 2, 4, 6, 12	161940	Window, Front 5
76461	Washer, Flat 5	151632	Screw (6-40 x 3/8 Hex) 12	161941	Window, Side 5
83876	Bracket, Spring 5	151637	Screw (4-40 x 1/4 Fil) 5	161943	Plate 5
85762	Washer, Flat 8	151657	Screw (6-40 x 1/4 Fil) 9	161944	Bracket, Hinge 5
87993	Screw (6-40 x 5/32 Fil) 5	151658	Screw (6-40 x 5/16 Fil) 2	161945	Copyholder 5
88780	Screw (4-40 x 3/16 Hex) 5	151685	Screw (4-40 x 5/16 Fil) 3, 5, 10, 11, 12	161949	Mount Assembly, Vibration 6
88857	Washer, Spring 2	151722	Screw (6-40 x 3/16 Hex) 2	161952**	Plate 6
91742	Nut, Lock 9, 10, 11, 12	151723	Screw (10-32 x 3/8 Hex) 12	161961	Guide, Line 5
91904	Washer, Flat 5	151724	Screw (10-32 x 5/8 Hex) 12	162189**	Cover W/Latch 2
92151	Connector, Plug (3 Pt) 5	151982	Lamp, Incandescent (6 Volt) 5	162191	Bracket, Guide 2
93001	Washer, Flat 2	152426	Nut, Self-Locking (6-40) 2	162195	Arm, Slide 2
93118	Washer, Lock 5	152441	Washer, Flat 5	162590	Shaft 5
93191	Screw (4-40 x 5/16 Flat) 12	152890	Washer, Flat 12	162846	Modification Kit to Provide Cover Clip 2
93984	Washer, Lock 12	152925	Latch 6	162916	Guide, Lower 3
101633	Washer, Flat 2, 5	152971	Bushing 6	162917	Guide, Upper 3
103092	Connector, Cord 9, 10, 11, 12	152972	Handle W/Studs 6	164102	Bracket, Window 5
104463	Screw (4-40 x 1/4 Hex) 10, 11	152993	Screw, Shoulder (10-32) 6	164276**	Container, Chad 13
110743	Washer, Lock 5, 12	153021	Spring, Torsion 5	164548**	Panel 10, 11
110822	Screw (10-32 x 13/16 Flat) 11	153022	Bushing 5	164553	Shaft 10, 11
111017	Screw (6-40 x 5/16 Fil) 5, 9, 10, 11, 12	153023	Handle 3, 5, 10, 11	164561**	Tray 11
111346	Spring, Compression 4	153034	Shaft Assembly 9	164562	Slide, Left 11
112626	Nut (10-32 Hex) 6, 12	153035**	Panel 9	164563	Slide, Right 11
114766	Stud 9	153036	Shaft 9	164569**	Table 10
117743	Roller 11	153037	Spring, Compression 9, 10, 11	164570	Shaft Assembly 10, 11
119652	Ring, Retaining 2	153039	Handle 9	164571**	Table Assembly 11
119653	Ring, Retaining 4, 8, 12	153442	Screw (10-32 x 1/2 Hex) 6	164763**	Cover W/Hinge 3
119655	Ring, Retaining 6	153448	Catch 2	164875	Pad, Felt 3
121125	Washer, Spring 6	153449	Spring, Compression 2	173311	Bracket, Front Guide 13
121243	Clamp, Cable (3/16" ID) 5	153817	Screw (4-40 x 3/8 Hex) 12	173312	Bracket, Rear Guide 13
121244	Clamp, Cable (1/4" ID) 5	153841	Screw (6-40 x 9/16 Hex) 5	173861	Cart 10
125112	Screw (2-56 x 1/8 Fil) 5	154326	Cover, Insulating 7	174404	Guide, Tape 2
125171	Screw (10-32 x 1/2 Flat) 7	154346	Plate, Insulating 9, 10, 11, 12	174405	Handle 2
125206	Screw (6-32 x 5/8 Fil) 9, 10, 11, 12	154399	Plate, Identification (Bell) 2, 5, 9, 10, 11, 12	174406	Arm 2
125231	Nut (10-32 Hex) 7	154407	Latch 2, 5	174407	Lever 2
125802	Washer, Flat 12	154409**	Plate 9, 12	174408	Guide 2
128209	Bumper, Rubber 12	155083	Lens, Indicator Light 2	176089	Gasket, Window 4
128357	Ring, Retaining 9, 10, 11	156770	Plate, Identification (Teletype) 2, 3, 5, 9, 10, 11, 12	176096**	Cover W/Studs 4
142619	Guide, Tape 3	156993	Nut, Speed 2, 3, 5, 9, 10, 11, 12	176097**	Lid 4
142734	Knife, Tape 3			176098	Fastener 4
145325**	Cover 5			176101	Guide, Tape 4
				176102	Bolt 4
				176103	Window, Plastic 4

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
176104	Window Assembly 4	179122**	Door W/Hinge 12	194432**	Panel 11
176105	Bracket 4	179124	Plate, Latch Mounting 12	194433**	Table Assembly 11
176106	Bracket 4	179125	Bracket, Mounting 12	195132**	Cover 8
176107	Handle 4	179126	Post 12	195133**	Lid, Cover 8
176108	Bracket 4	179127	Chain (Approx. 15" Lg) 12	195134	Clamp 8
176110	Plate, Identification 4	179128	Stud 12	195135	Window, Plastic 8
176615	Modification Kit 13	180798	Screw, Self-Tapping (8-32) 13	195138	Guide, Tape 8
179120**	Table 12	193645**	Plate, Cover 5	195188	Chute, Chad 13
		194431**	Tray 11	199277	Plate, Name (Teletype) 8



28 APPARATUS CABINET (LBAC)
(RECEIVING, MONITORING & TRANSMITTING-MONITORING)
PARTS

FIGURE	CONTENTS	PAGE
1	Front Doors and Dome	2
2	Control Panels	3
3	Control Panels	4
4	Control Panels	5
5	Control Plates	6
6	Control Plate	7
7	Control Plate Mounting Parts	8
8	Tape Winder Mounting Racks	9
9	Channel Assemblies	10
10	Channel Assemblies with Shelf	11
11	Terminal Blocks and Cable Assembly	12
12	161999** Modification Kit to Provide End Enclosures	13
13	Rear Doors and Latch Mechanism	14
	Numerical Index	15

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
Black	AA (37)	BB			Brussels Light Blue		EC		
Dark Brown	AD (38)				Medium Blue		ES		
Gray Green	AB (40)	BK	GA (45)		Cherry Red		EF		
Charcoal Gray	AL	BZ		HA	Pastel Yellow		EG		
Dark Gray			GB		White		EH		
Light Gray		EJ		HB (68)	Ivory		EM		
Beige Gray			GC		Beige		ET		
Light Beige		EL		HC	Rose Beige		ER		
Moss Green		EN		HD	Rose Pink		EU		
Eye Rest Green		EA			Dark Covert Gray				HE
Turquoise		EV			Light Olive Gray		EW	GE	HF (46)
Aqua Blue		EK			Fawn				HG

The double asterisk (**) denotes a painted part. Suffix to be applied following the part number.
Number in parenthesis indicates Bell System code

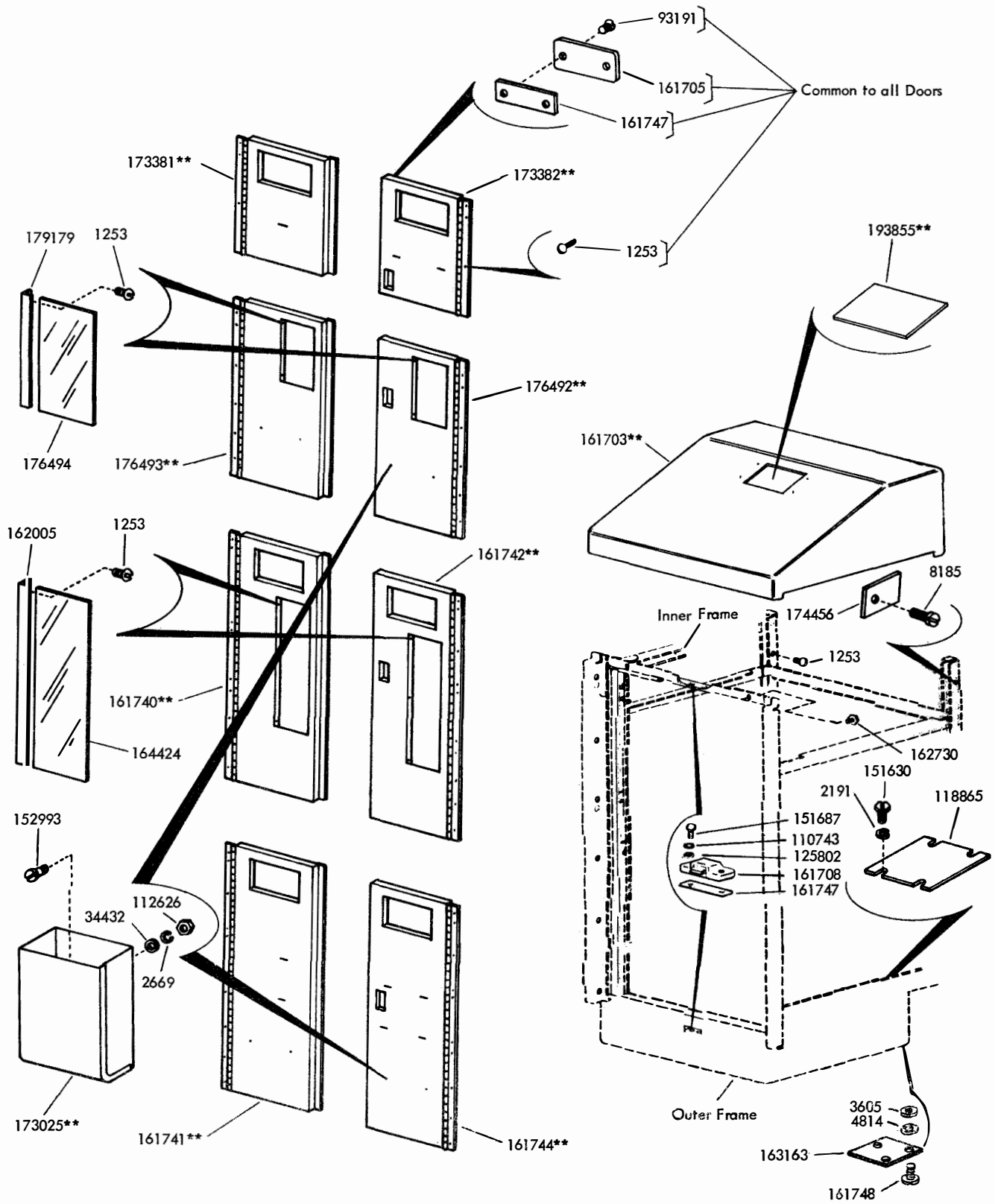


FIGURE 1. FRONT DOORS AND DOME

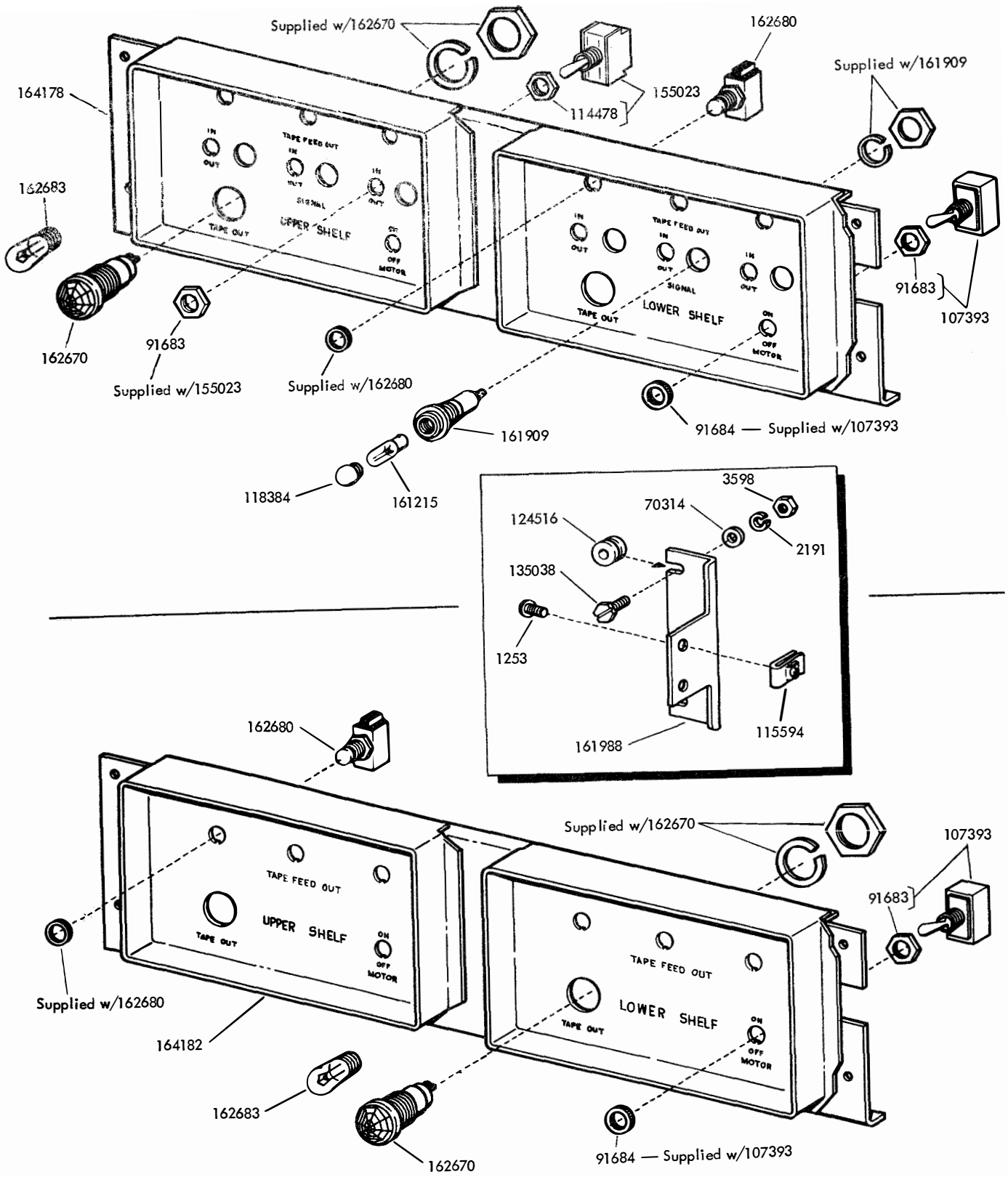


FIGURE 2. CONTROL PANELS

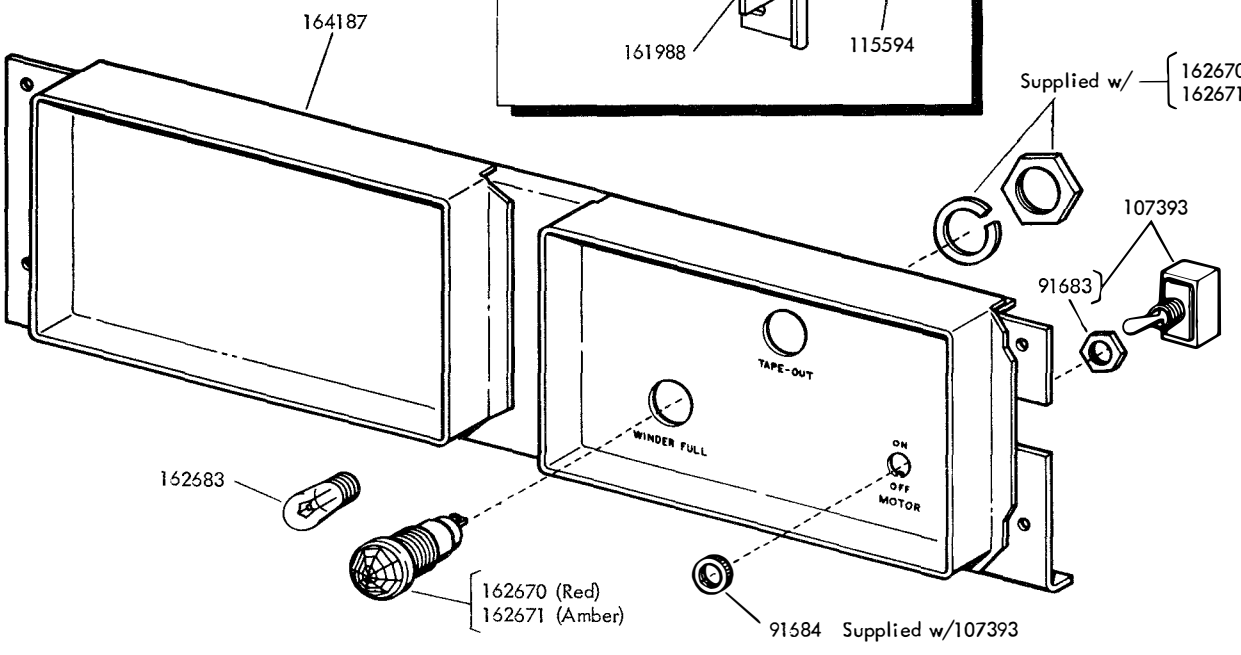
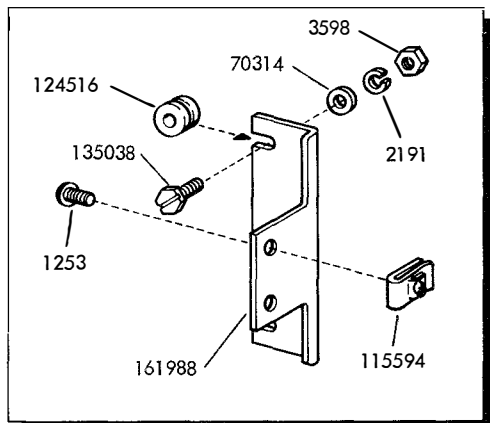
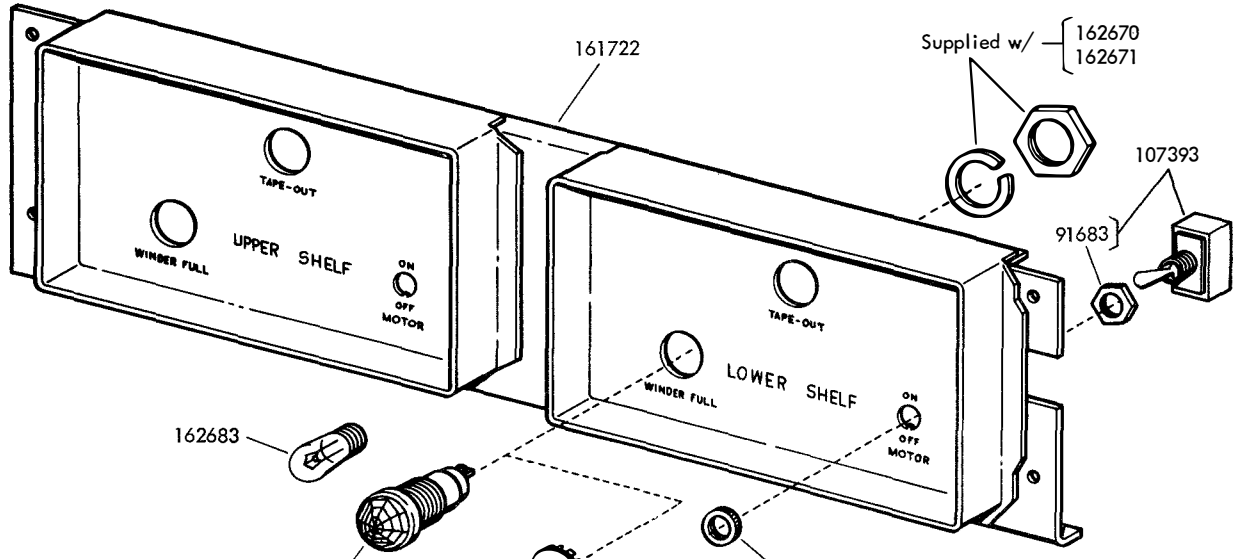


FIGURE 3. CONTROL PANELS

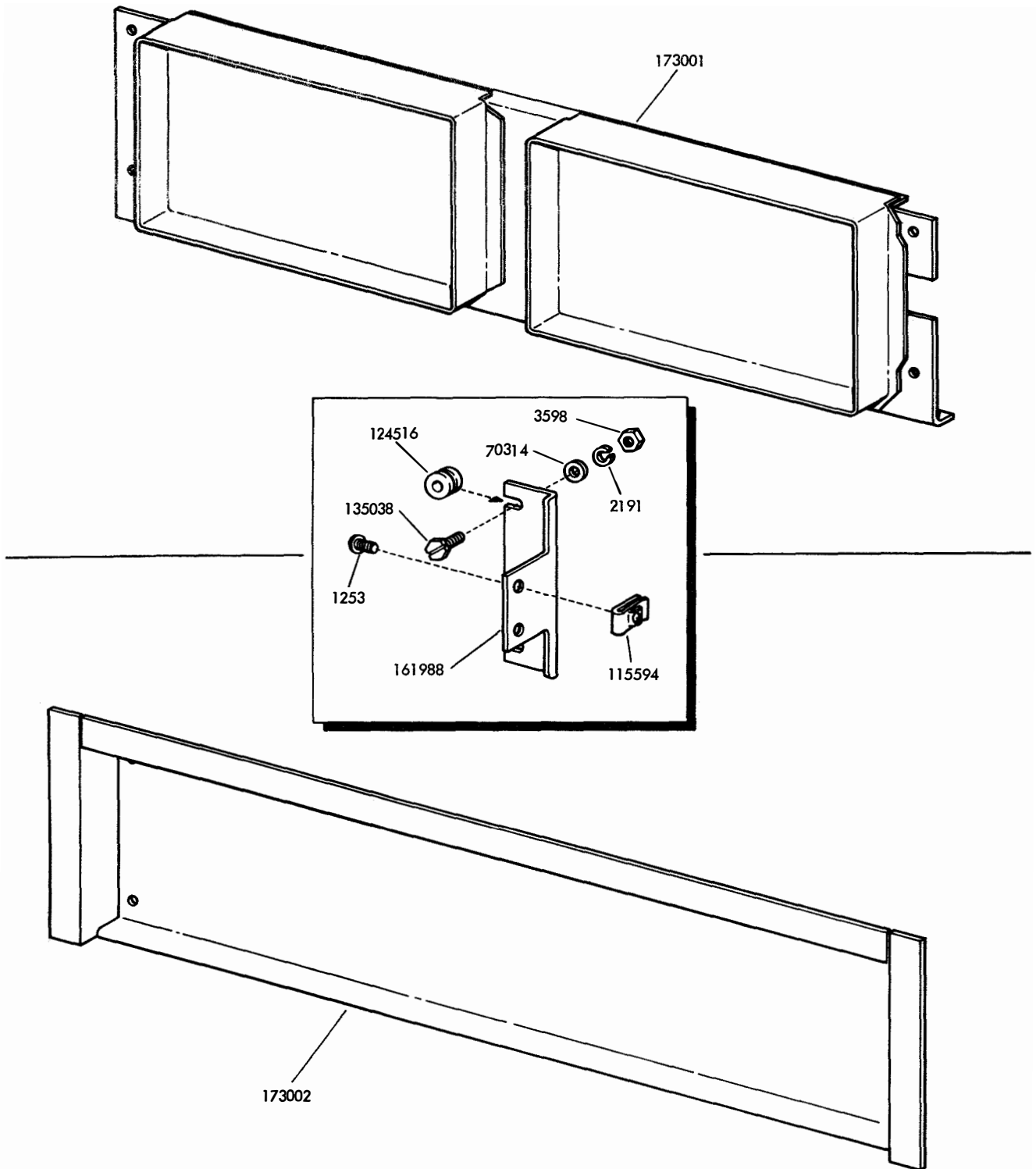


FIGURE 4. CONTROL PANELS

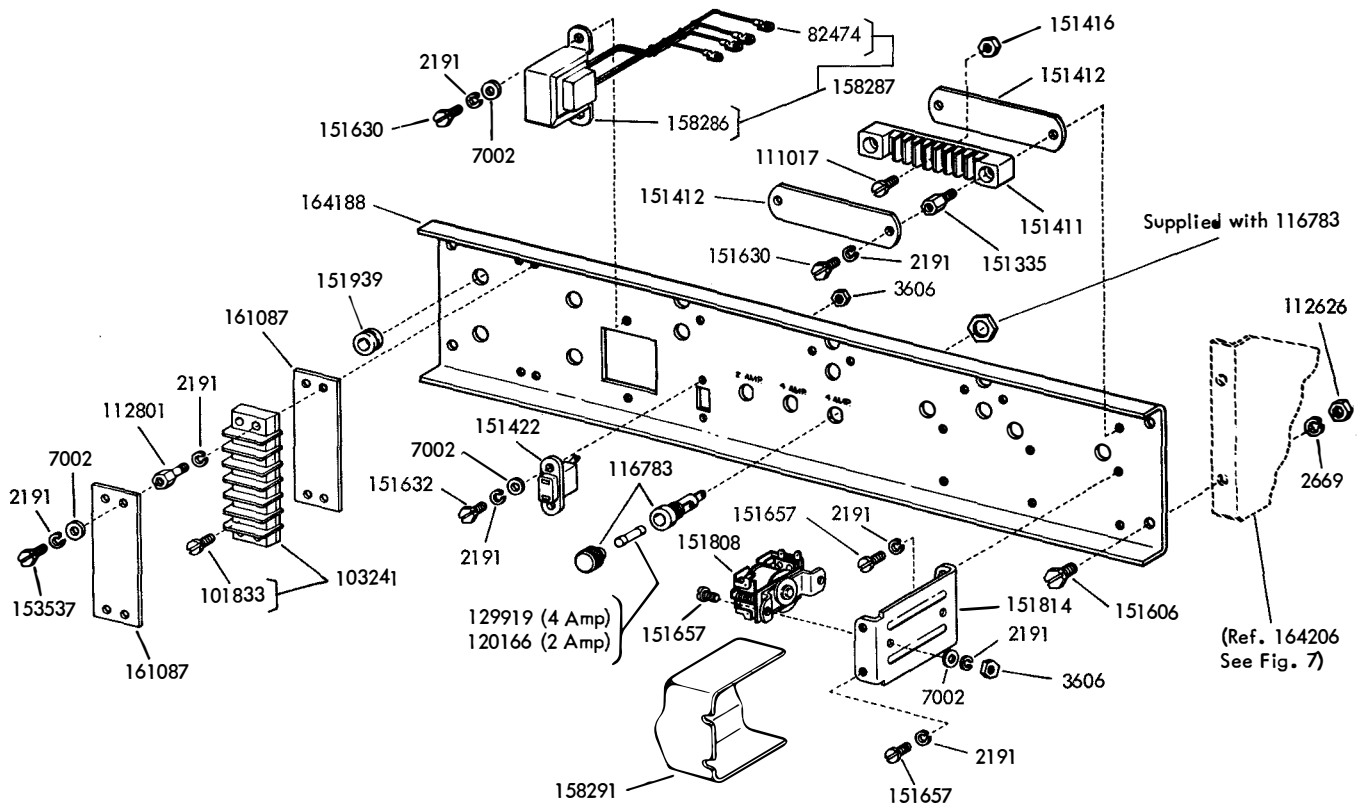
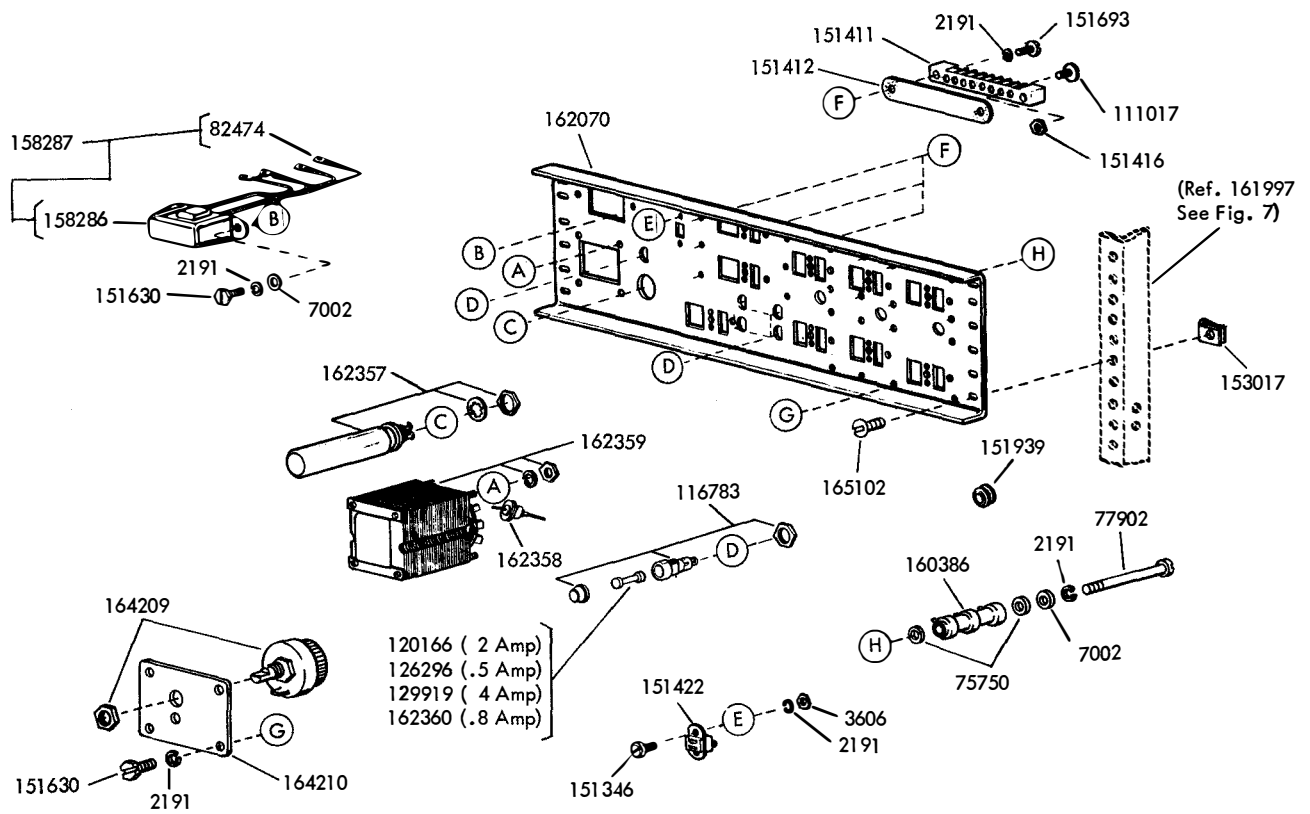
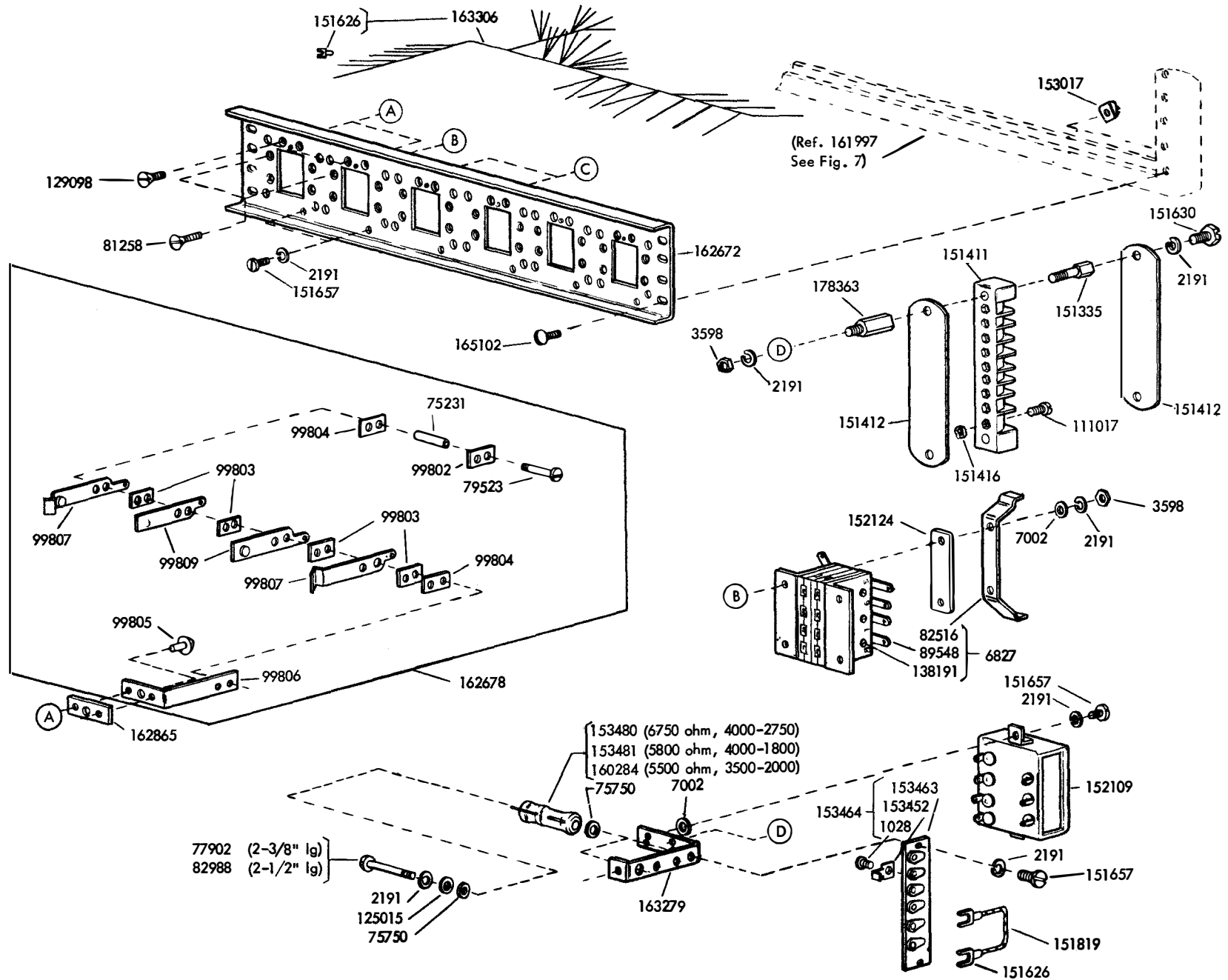


FIGURE 5. CONTROL PLATES

FIGURE 6. CONTROL PLATE



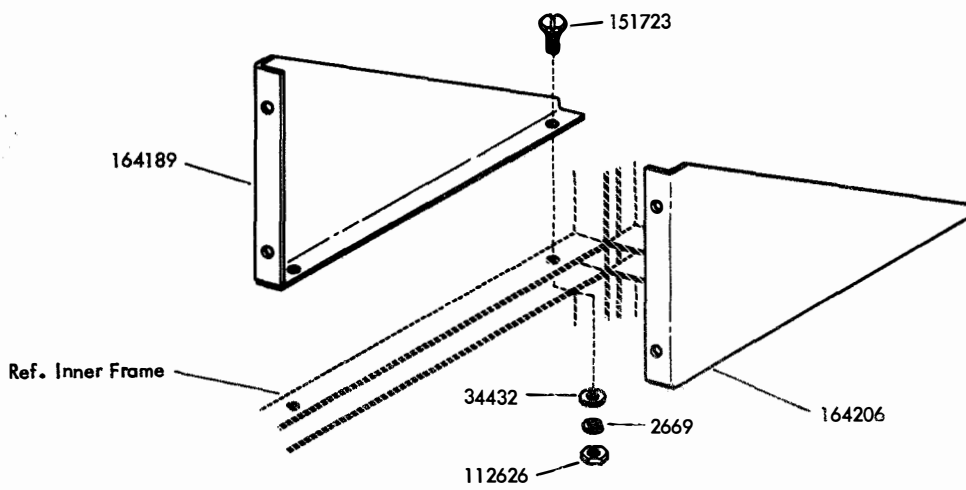
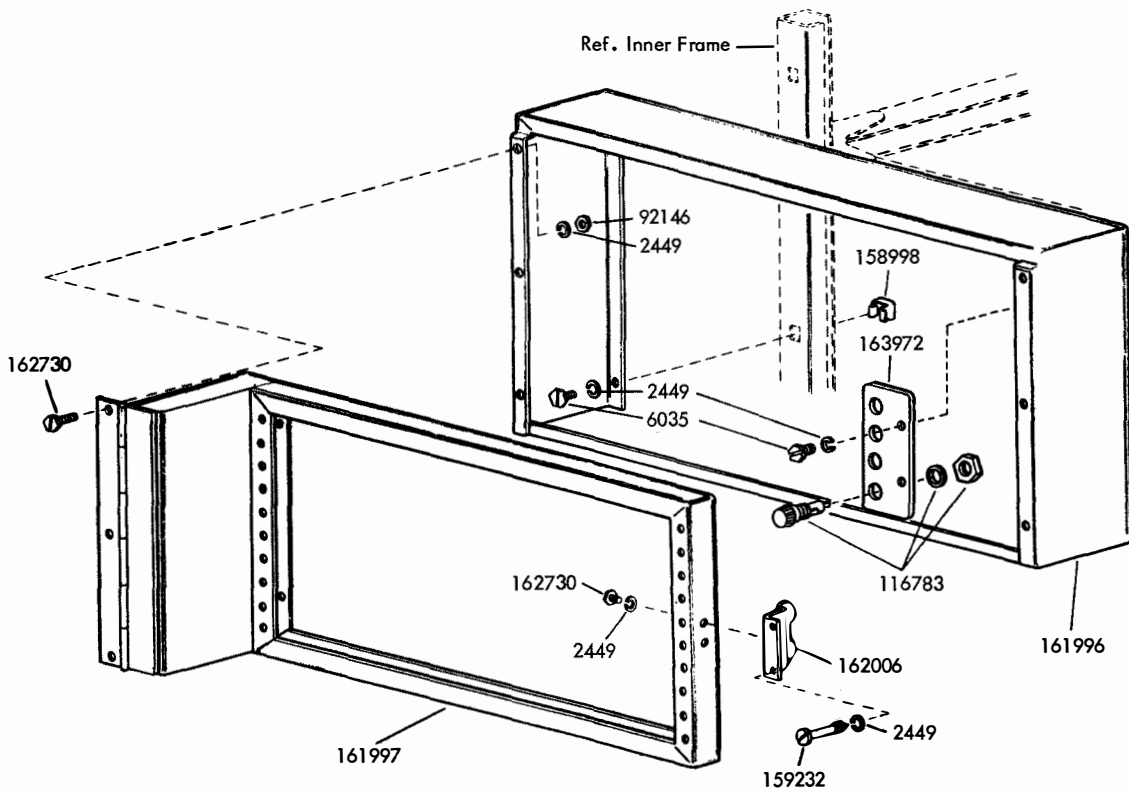


FIGURE 7. CONTROL PLATE MOUNTING PARTS

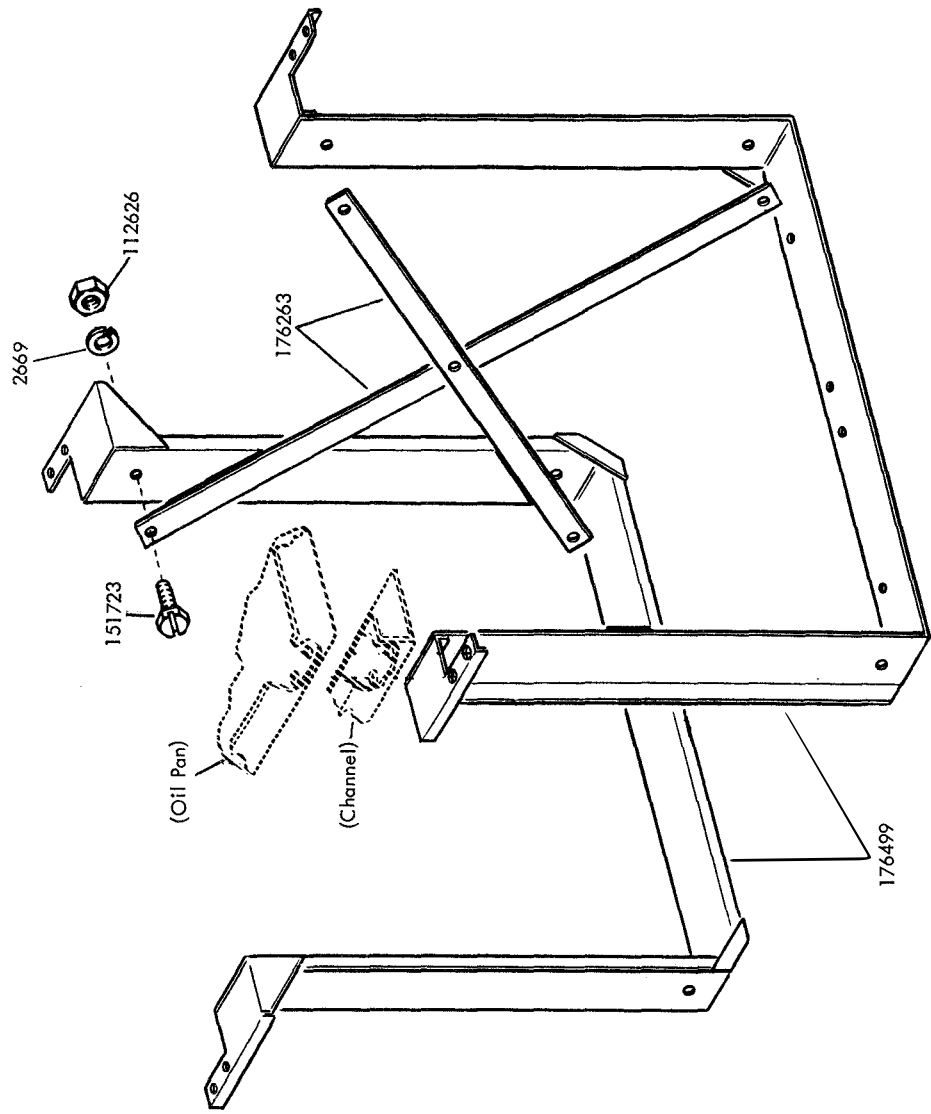


FIGURE 8. TAPE WINDER MOUNTING RACKS

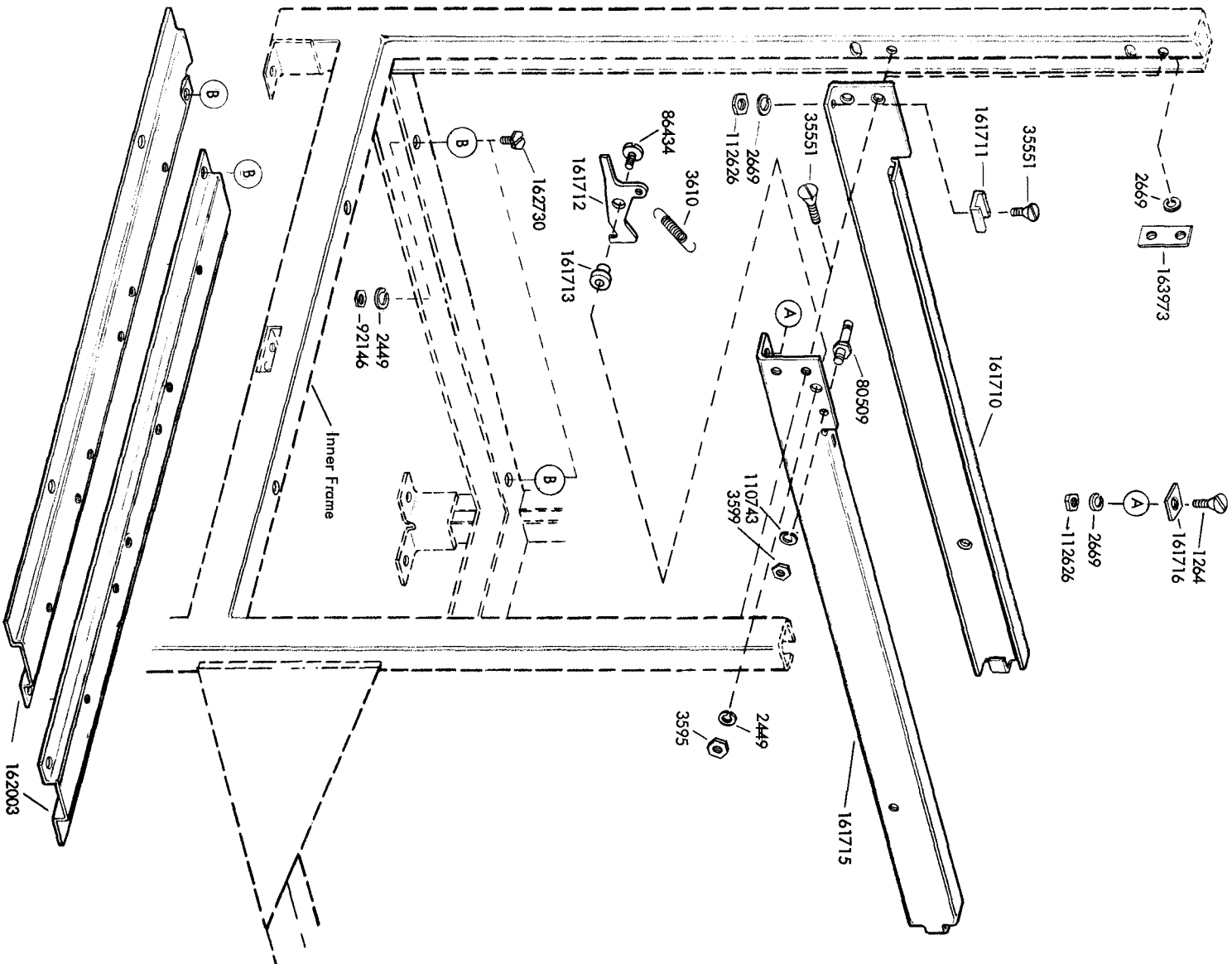
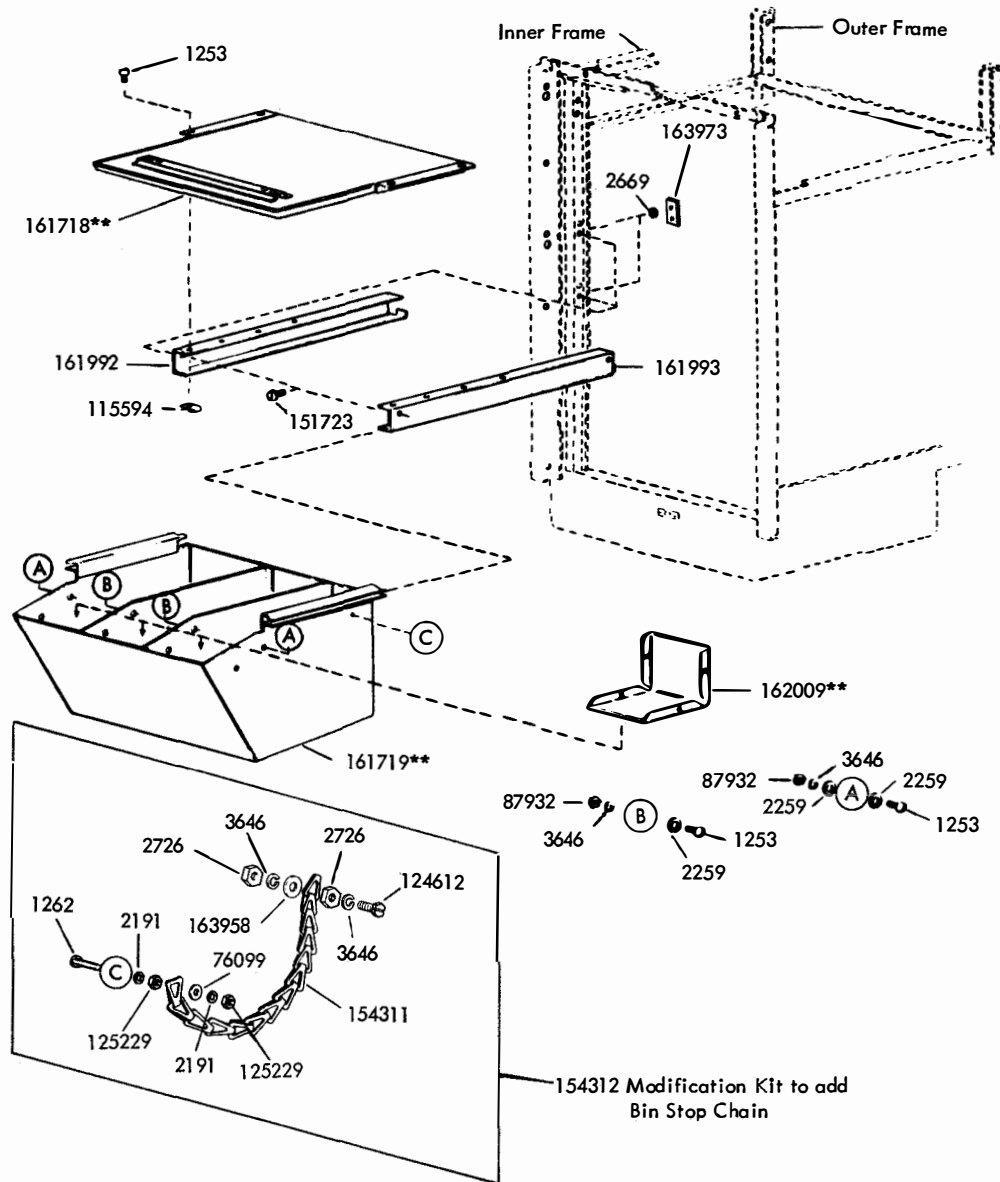
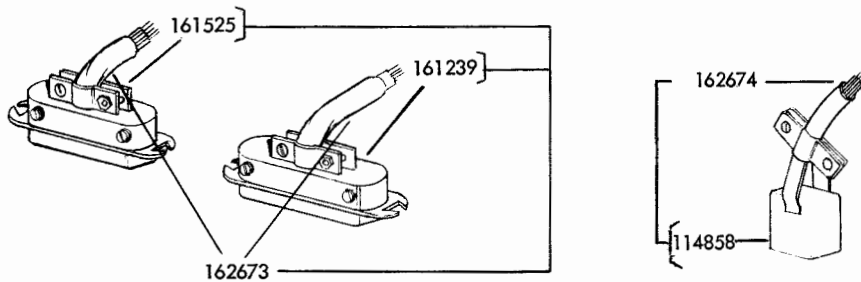


FIGURE 9. CHANNEL ASSEMBLIES



**Refer to page 1 for finish suffix

FIGURE 10. CHANNEL ASSEMBLIES WITH SHELF



Note: 161525 (14 point connector) mates with 161526
 161239 (36 point connector) mates with 161238

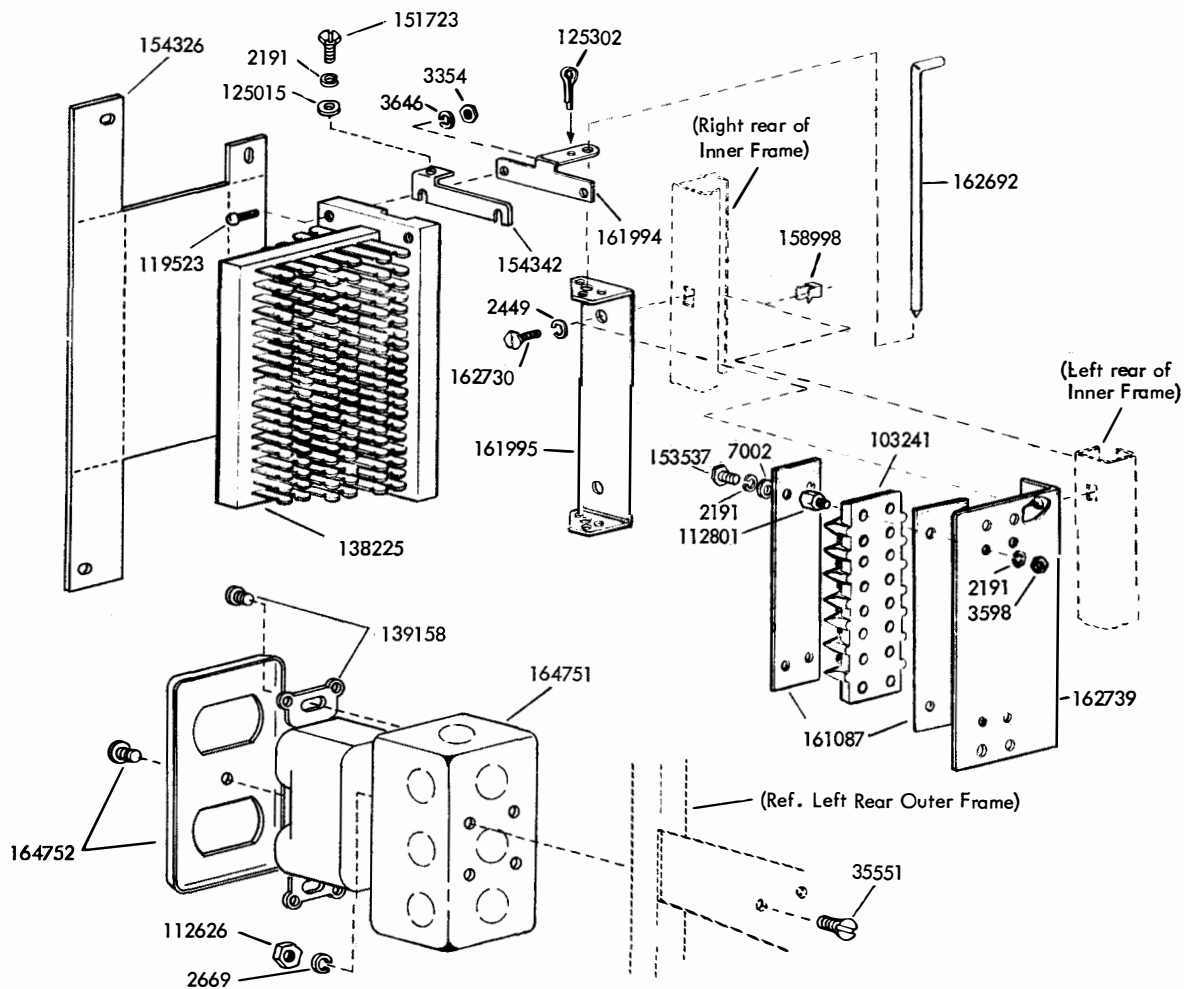
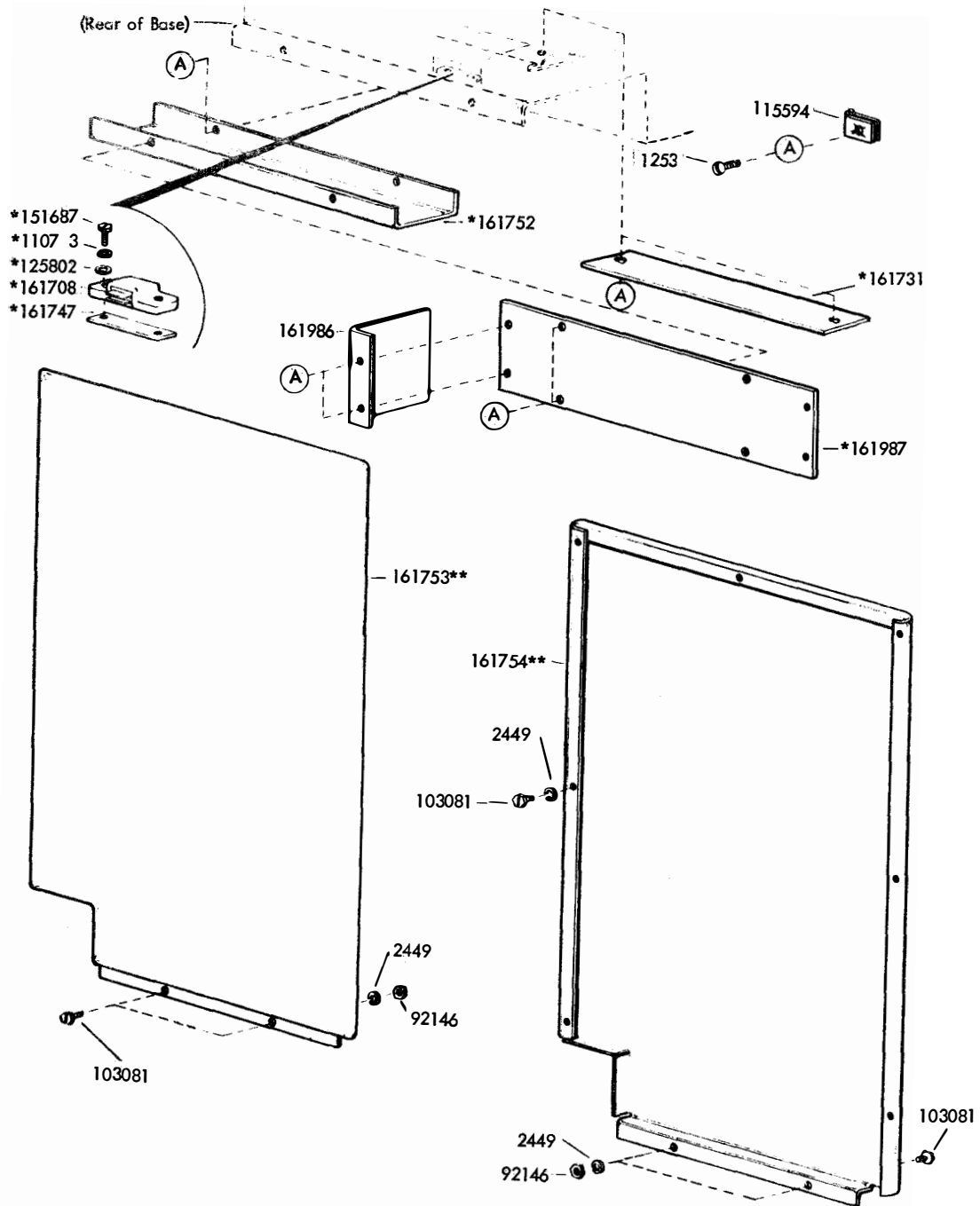
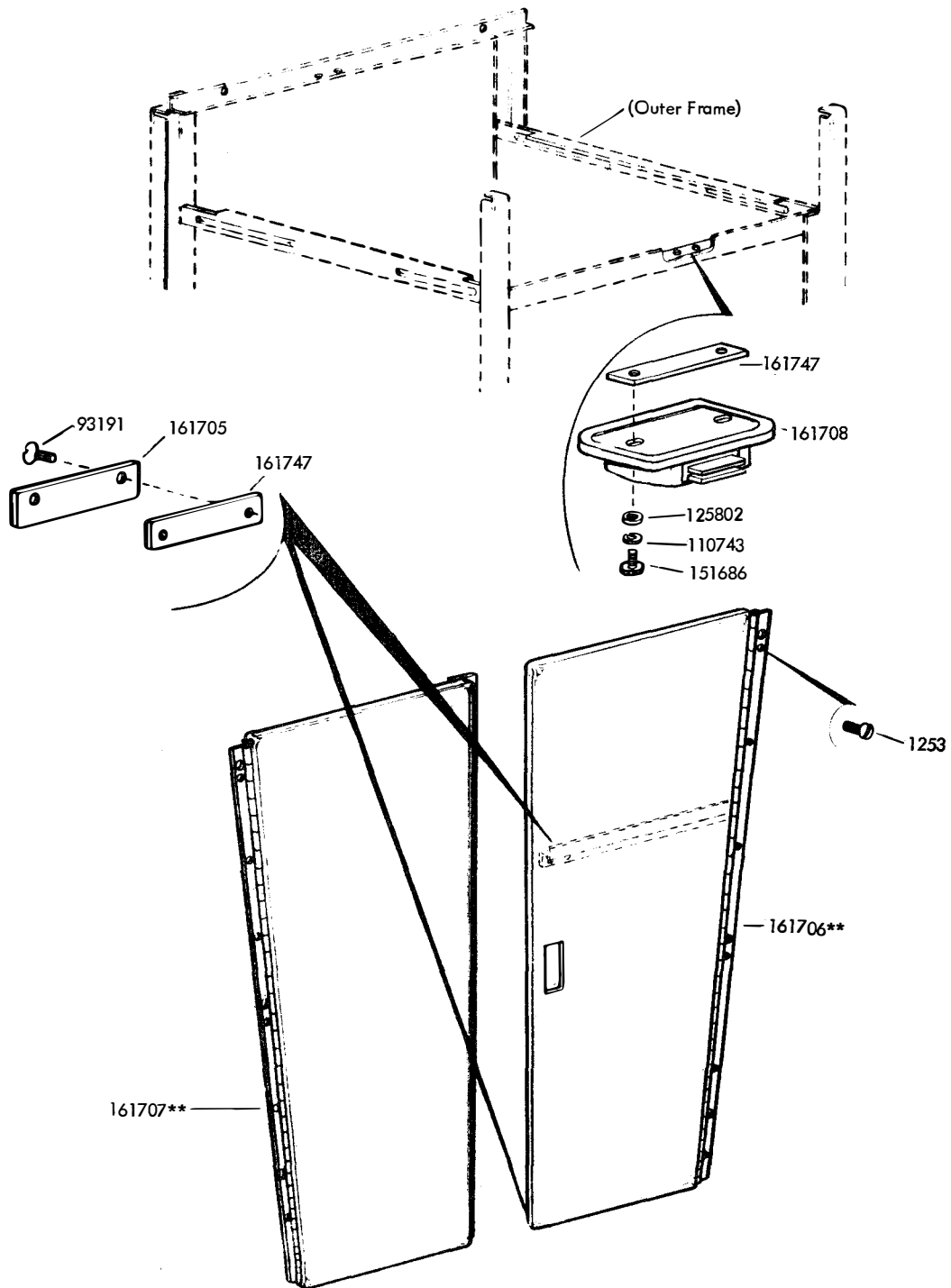


FIGURE 11. TERMINAL BLOCKS AND CABLE ASSEMBLY



*Not part of 161999** Modification Kit
 **Refer to page 1 for finish suffix

FIGURE 12. 161999** MODIFICATION KIT TO PROVIDE END ENCLOSURES



**Refer to page 1 for finish suffix

FIGURE 13. REAR DOORS AND LATCH MECHANISM

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1028	Screw (4-40 x 1/4 Fil) 7	118865	Cover 2	161703**	Cover, Top 2
1253	Screw (8-32 x 3/8 Rd) 2, 3, 4, 5, 11, 13, 14	119523	Screw (8-32 x 3/4 Rd) 12	161705	Strike, Fastener 2, 14
1262	Screw (6-32 x 5/16 Rd) 11	119636**	Plug, Button 4	161706**	Door, Right Rear 14
1264	Screw (10-32 x 1/2 Flat) 10	120166	Fuse (2 Amp) 6	161707**	Door, Left Rear 14
2191	Washer, Lock 2, 3, 4, 5, 6, 7, 11, 12	121021	Screw (8-32 x 1/2 Hex) 11	161708	Latch, Magnetic 2, 13, 14
2259	Washer, Flat 11	124516	Grommet, Rubber 3, 4, 5	161710	Channel, Left 10
2449	Washer, Lock 8, 10, 11, 12, 13	124612	Screw (8-32 x 1/2 Hex) 11	161711	Block, Guide 10
2669	Washer, Lock 2, 6, 8, 9, 10, 11, 12	125015	Washer, Flat 7, 12	161712	Latch, Lever 10
2726	Nut (8-32 Hex) 11	125229	Nut (6-32 Hex) 11	161713	Bushing, Shoulder 10
3354	Nut (8-32 Hex) 12	125302	Pin, Cotter 12	161715	Channel, Right 10
3595	Nut (1/4-32 Hex) 10	125802	Washer, Flat 2, 13, 14	161716	Block, Support 10
3598	Nut (6-40 Hex) 3, 4, 5, 7, 12	126296	Fuse (.5 Amp) 6	161718**	Shelf 11
3599	Nut (4-40 Hex) 10	129098	Screw (6-40 x 11/32 Flat) 7	161719**	Bin, Tape 11
3605	Nut (5/16-18 Hex) 2	129919	Fuse (4 Amp) 6	161722	Panel, Control 4
3606	Nut (6-40 Hex) 6	135038	Screw (6-40 x 9/16 Hex) 3, 4, 5	161731	Plate, Cover 13
3610	Spring 10	138191	Screw (3-48 x 1" Rd) 7	161740**	Door, Left 2
3646	Washer, Lock 11, 12	138225	Black, Terminal 12	161741**	Door, Left 2
4814	Washer, Lock 2	139158	Connector, Receptacle (Duplex) 12	161742**	Door, Right 2
6035	Screw (1/4-20 x 5/8 Hex) 8	151335	Stud 6, 7	161744**	Door, Right 2
6827	Block 7	151346	Screw (6-40 x 3/8 Fil) 6	161747	Plate, Nut 2, 13, 14
7002	Washer, Flat 6, 7, 12	151411	Block, Terminal 6, 7	161748	Screw (5/16-18 x 5/8 Flat) 2
8185	Screw (1/4-20 x 3/4 Fil) 2	151412	Insulator (1-9) 6, 7	161752	Channel, Left 13
34432	Washer, Flat 2, 8	151416	Nut (6-40 Hex) 6, 7	161753**	Panel, Left Side 13
35551	Screw (10-32 x 3/8 Flat) 10, 12	151422	Connector, Receptacle (2 Pt) 6	161754**	Panel, Right Side 13
70314	Washer, Flat 3, 4, 5	151606	Screw (10-32 x 1/4 Hex) 6	161909	Socket, Lamp 3
75231	Bushing, Insulating 7	151626	Terminal 7	161986	Cover, Duct 13
75750	Washer, Insulating 6, 7	151630	Screw (6-40 x 1/4 Hex) 2, 6, 7	161987	Plate, Duct 13
76099	Washer, Flat 11	151632	Screw (6-40 x 3/8 Hex) 6	161988	Bracket, Mounting 3, 4, 5
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