

28 TYPING REPERFORATOR (LPR)
and
28 TAPE PRINTER (LTP)
PARTS

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TELETYPE TO BELL SYSTEM CODE CROSS REFERENCE CHART

Typing Reperforator		Tape Printer		Gearset	
Teletype Code	Bell System Code	Teletype Code	Bell System Code	Teletype Code	Bell System Code
LPR4AWA	28A	LTP1ARA	28LA	163023	28N-1
LPR7AWA	28B	LTP2AZG	28LA-1	163024	28P-1
LPR22ARC	28C	LTP4AEC	28LB	163025	28R-1
LPR22ARE	28E				
LPR23ARE	28F				
LPR23ARC	28D				
LPR32ARC	28G				
LPR33AED	28C-1				
LPR42ARA	28J				
LPR46BRB	28L				
LPR47BRB	28M				
LPR54AXW	28K				
LPR84AWA	28N				

The part identification information contained in the following change notices have been incorporated in this issue.

TCN's	#786, #933, #1114, #1186, #1198, #1230, #1240
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Note: When ordering parts from this section, prefix each number with the letters TP.

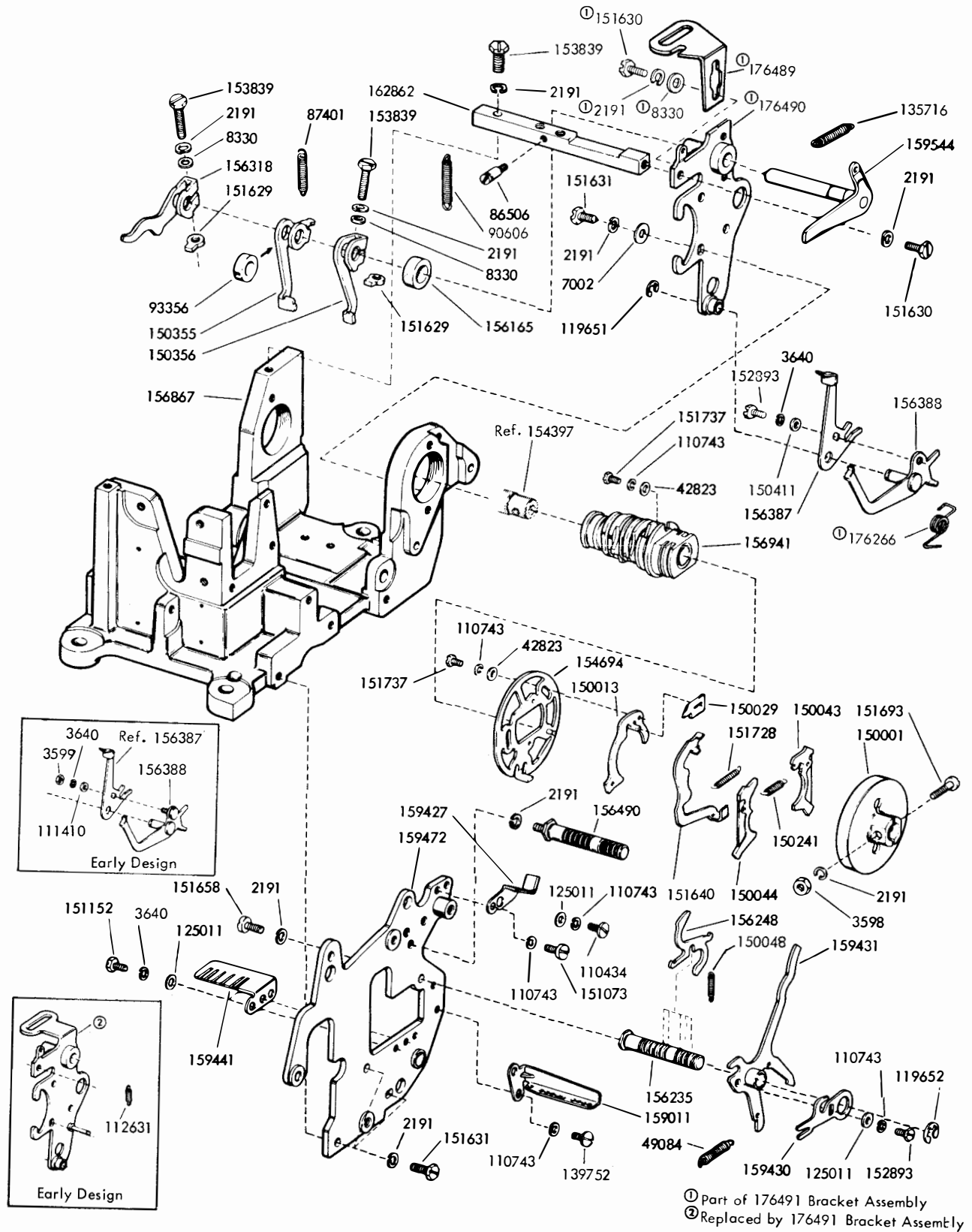


FIGURE 1. ONE SHAFT FRAME MECHANISM

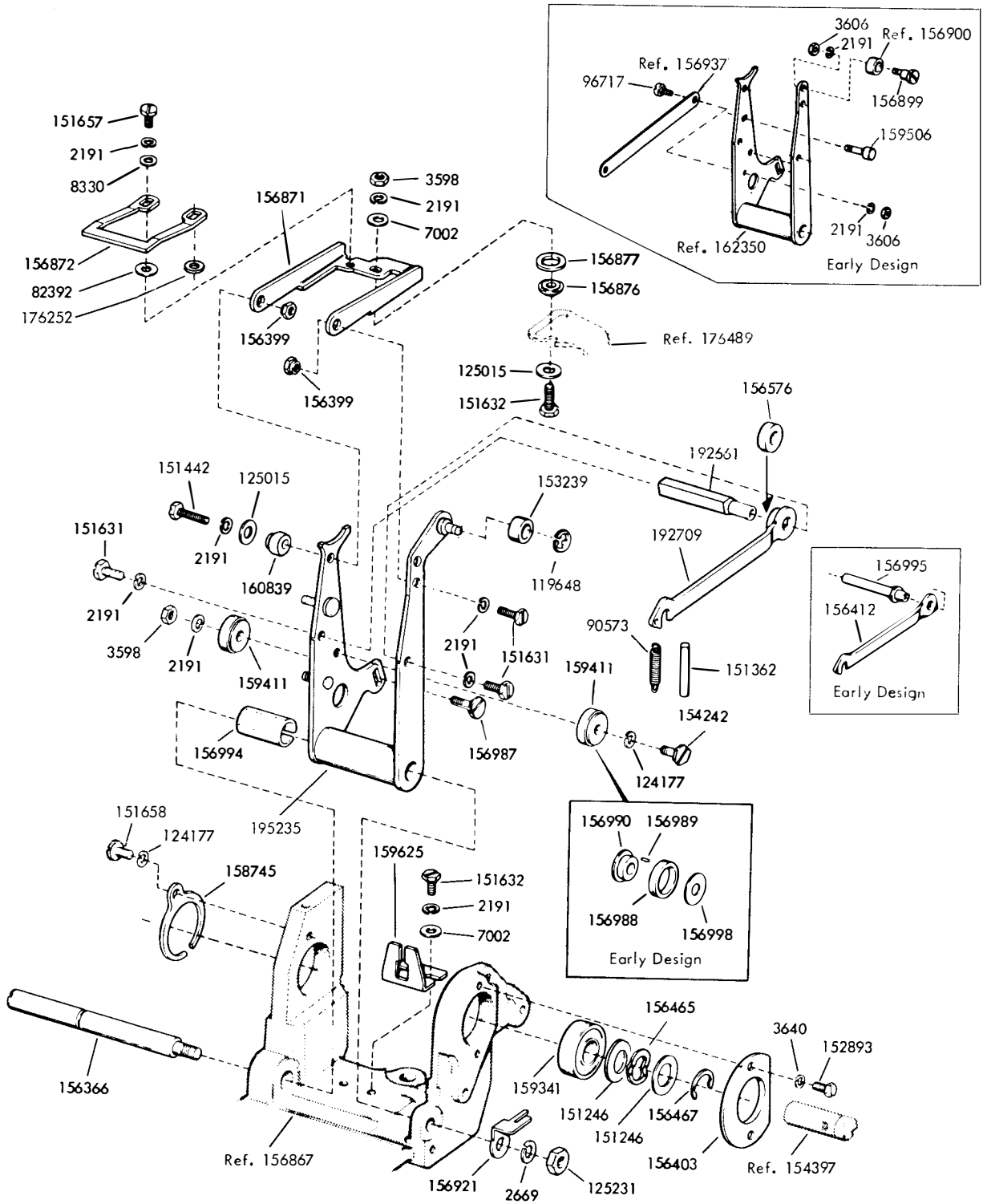
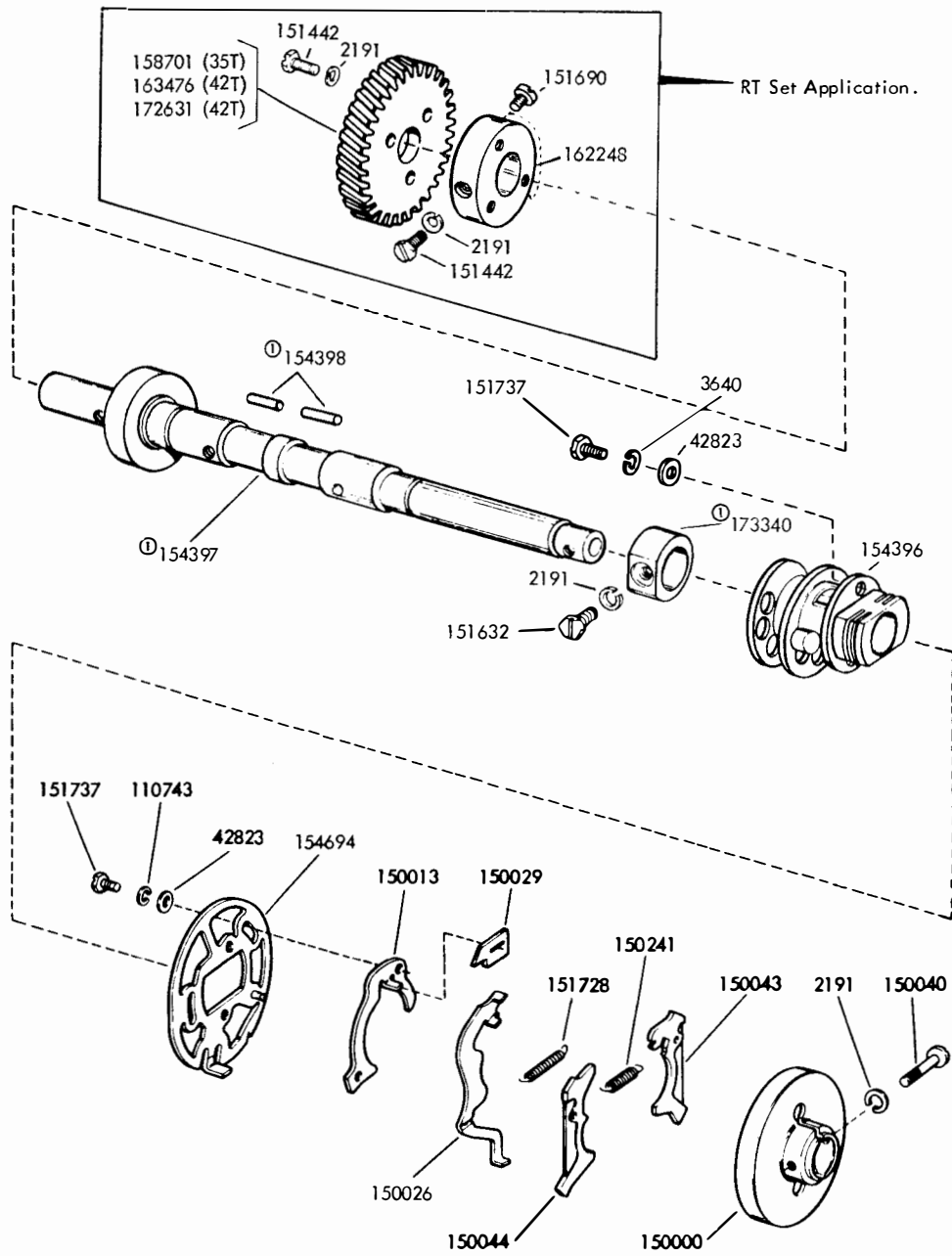


FIGURE 2. FRAME MECHANISM



① Part of 173336 Modification Kit to Provide New Style Shaft and Bearing (Includes 173200 Bearing Sleeve Shown on Figure 26).

173336 - Specification 59795

FIGURE 3. MAIN SHAFT MECHANISM

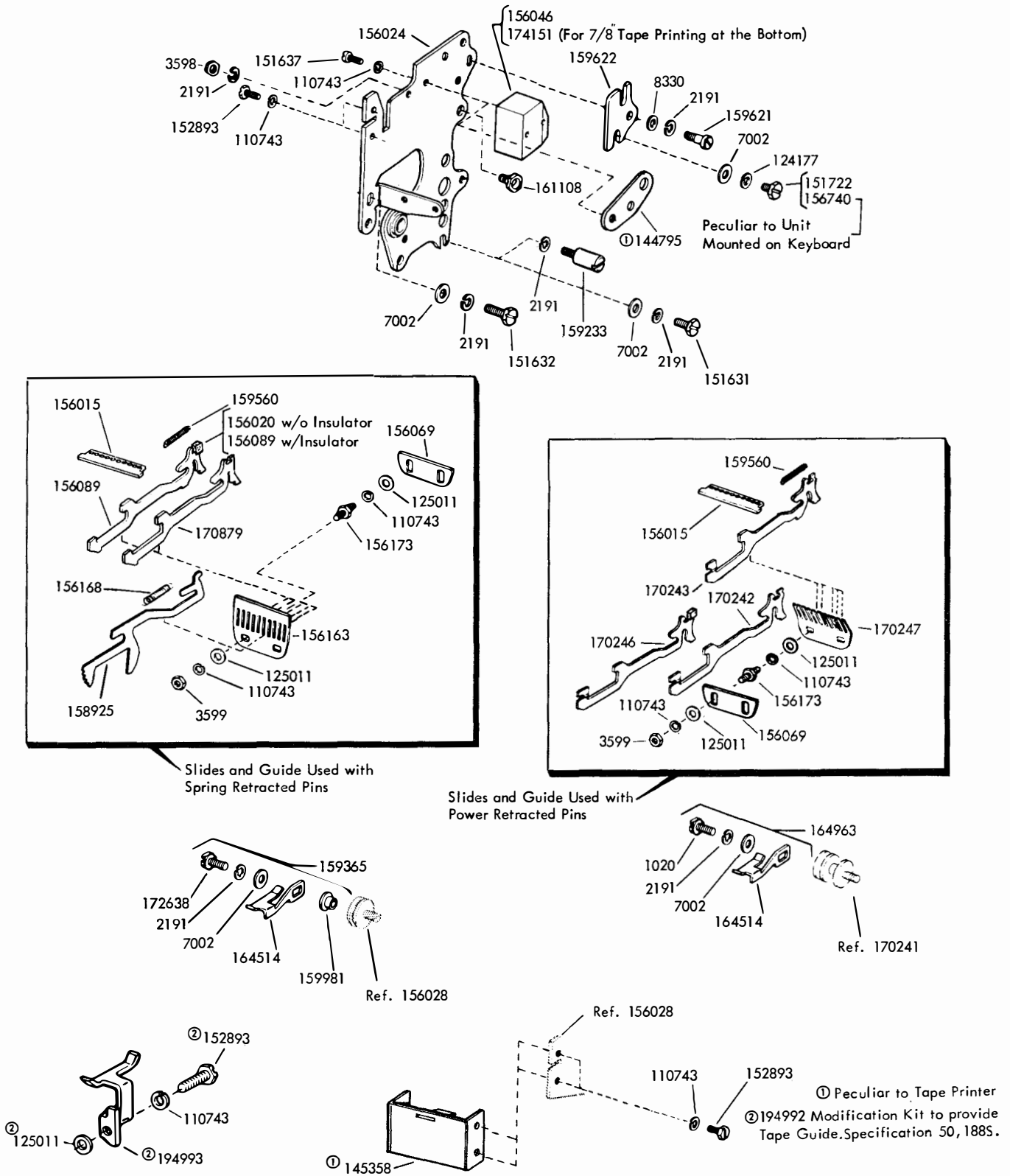
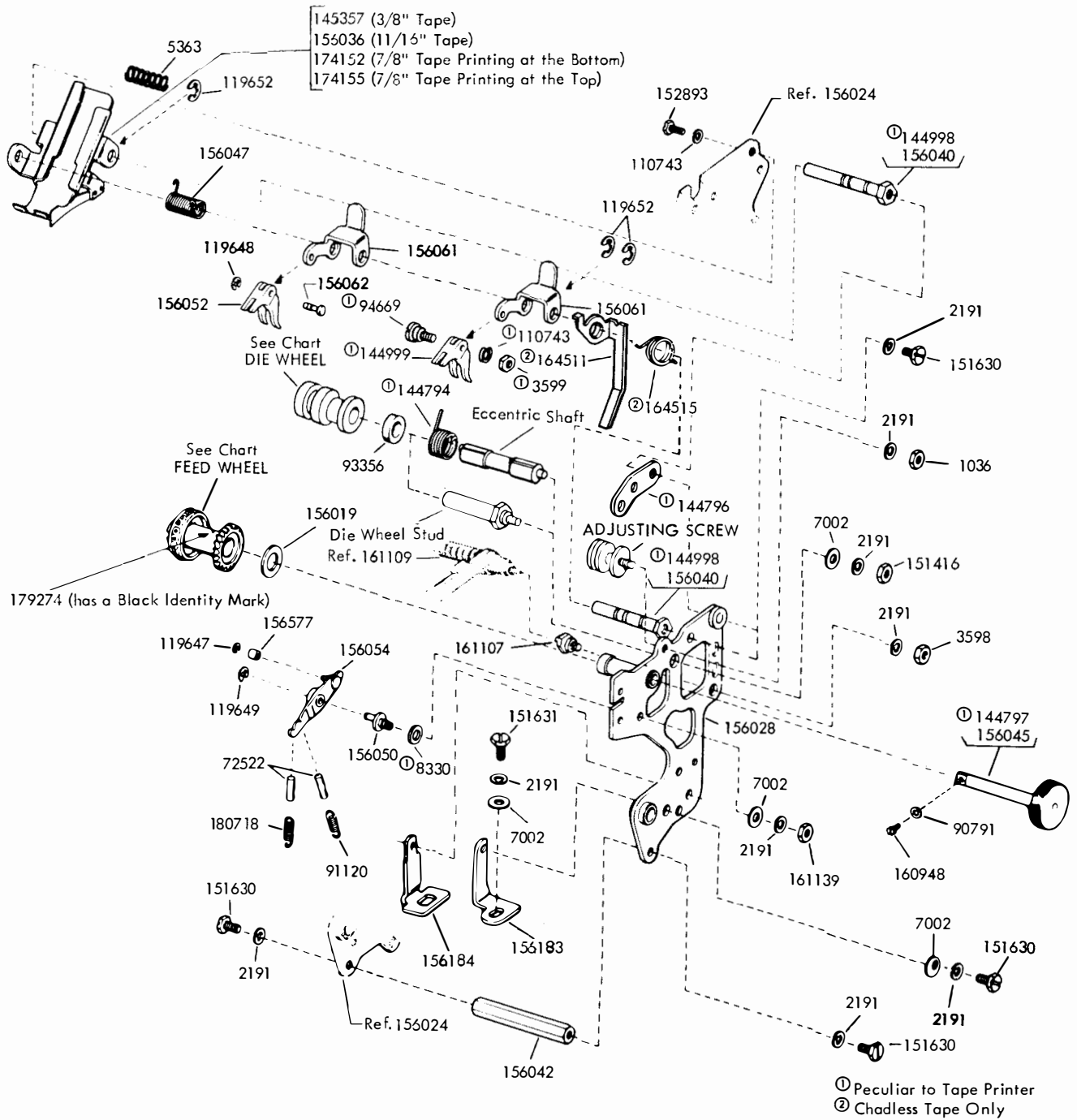
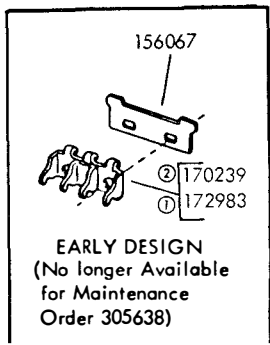


FIGURE 4. PUNCH REAR PLATE MECHANISM



Typing Reperforators - 5 Level				
Type of Punch	Chadless w/Spring Ret. Pins	Fully Perforated w/Spring Ret. Pins	Fully Perforated w/Power Ret. Pins	Tape Printer
Die Wheel	156055	170788	170788	145353
Feed Wheel	See Fig 20 for Punch Block and Feed Wheel Combinations			145356
Die Wheel Stud	156044	170219	170219	
Adjusting Screw	156090	170241	170241	170241
Eccentric Shaft				144793

FIGURE 5. PUNCH FRONT PLATE MECHANISM



- ① Used with power & spring retracted pins.
- ② Used with the tape printer.

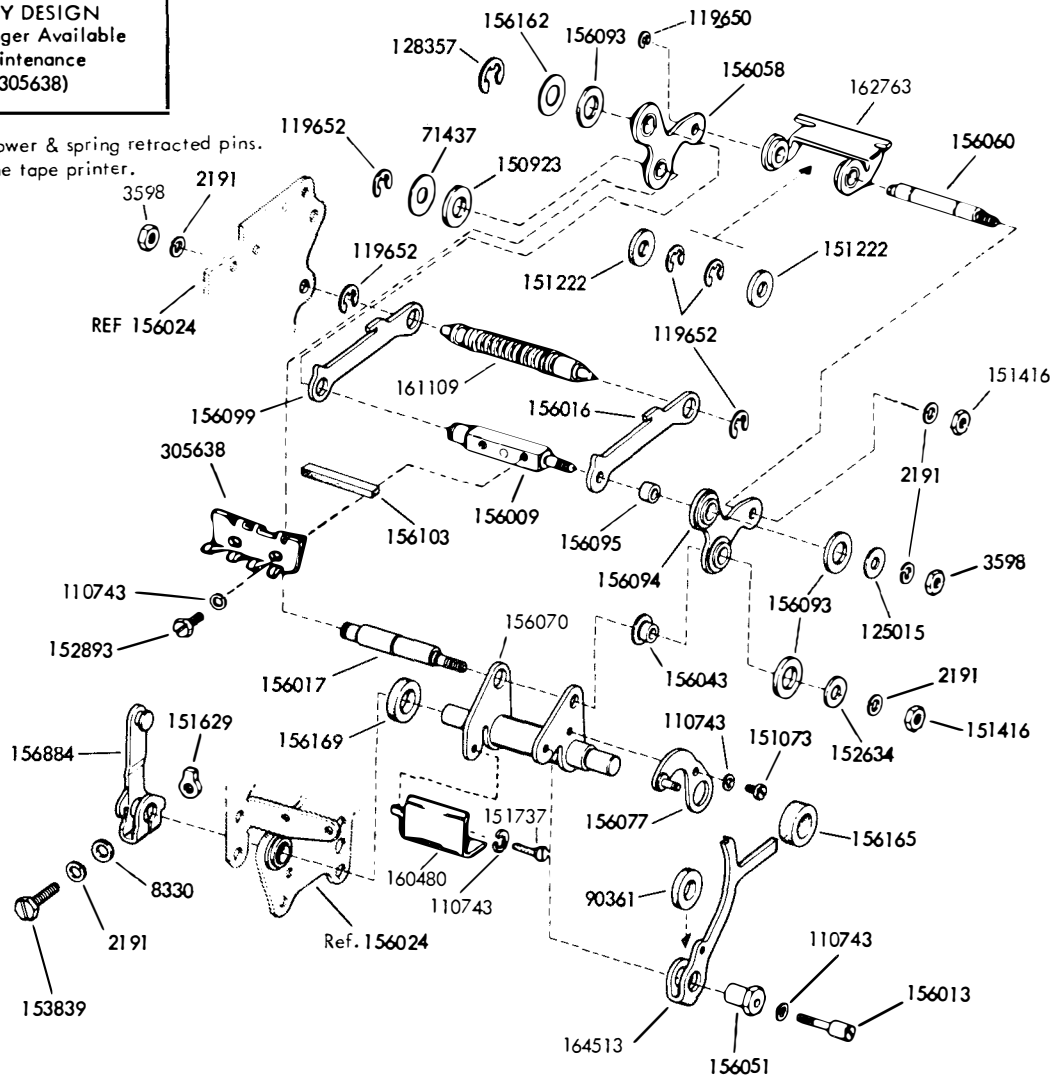


FIGURE 6. PUNCH BAIL MECHANISM

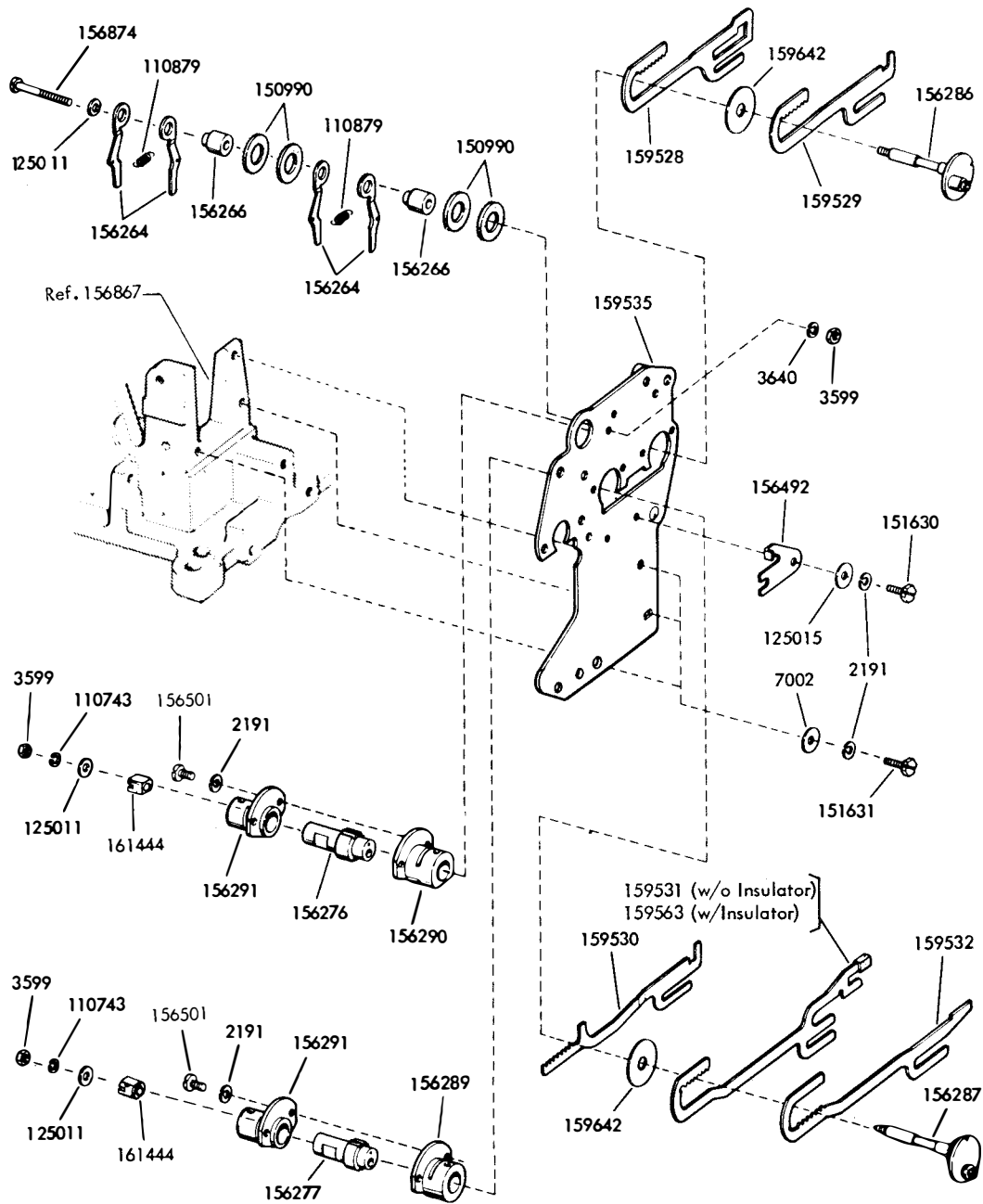


FIGURE 7. ROTARY POSITIONING MECHANISM

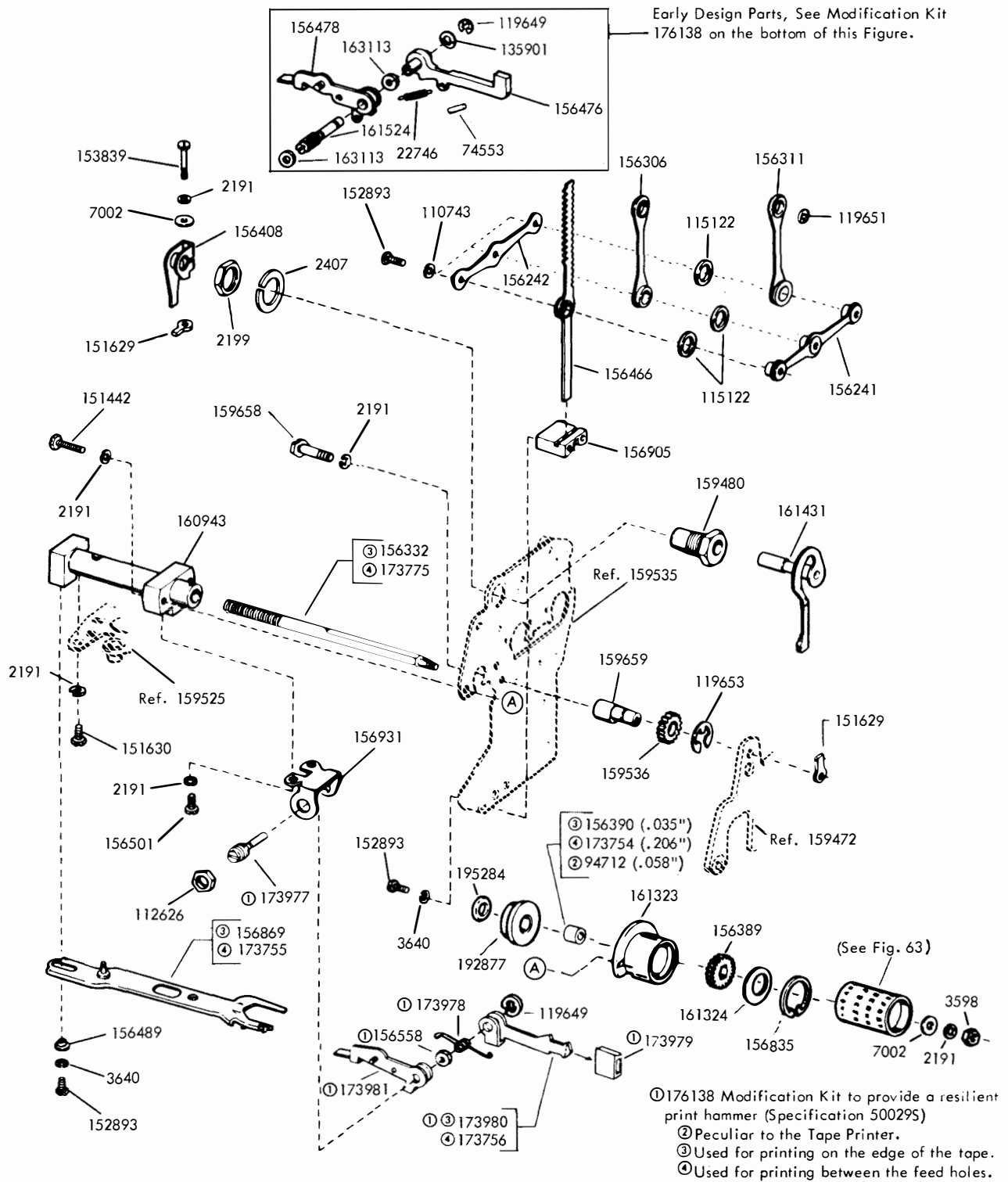


FIGURE 8. ROTARY POSITIONING MECHANISM
(Continued)

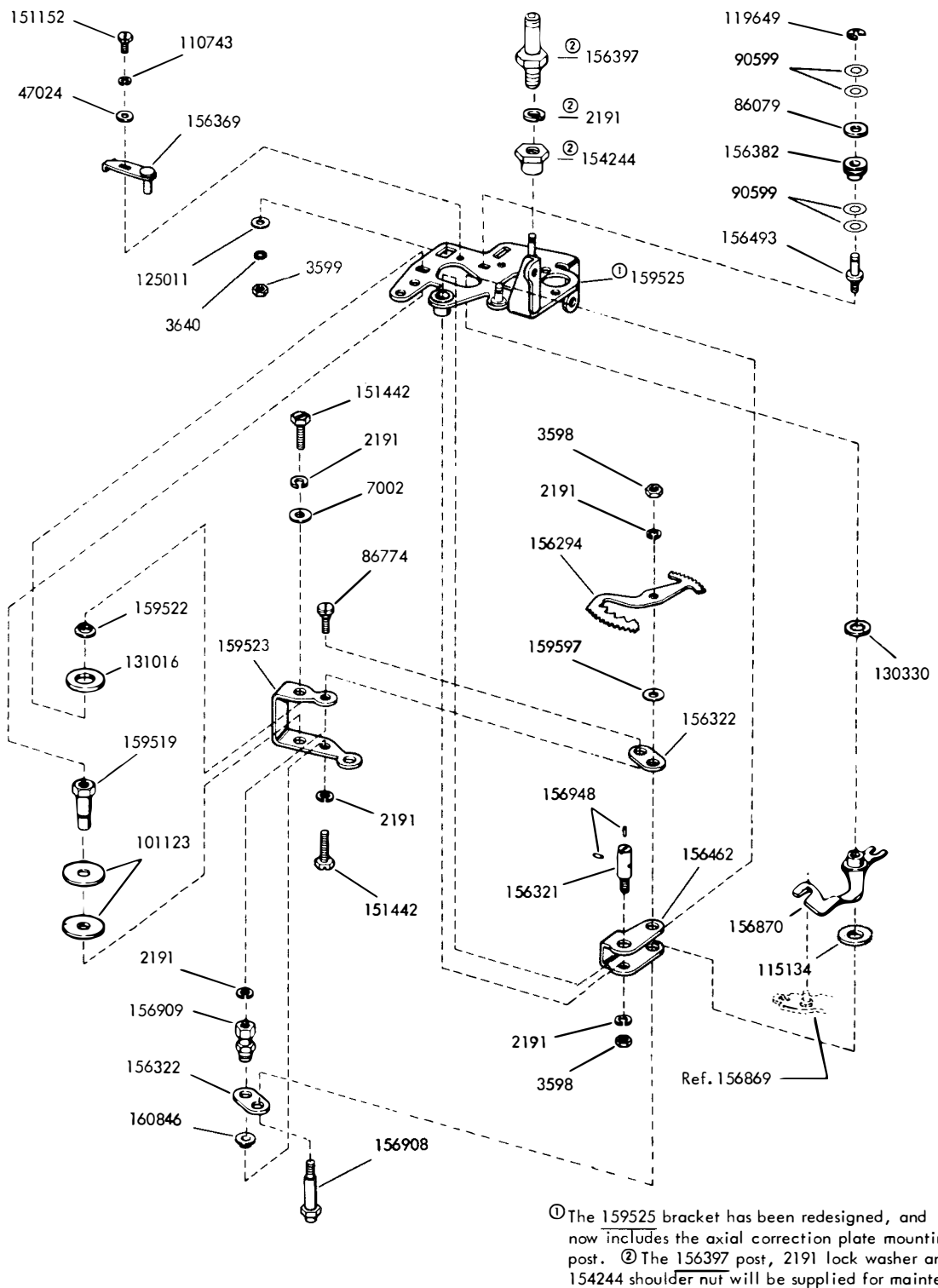


FIGURE 9. AXIAL POSITIONING MECHANISM

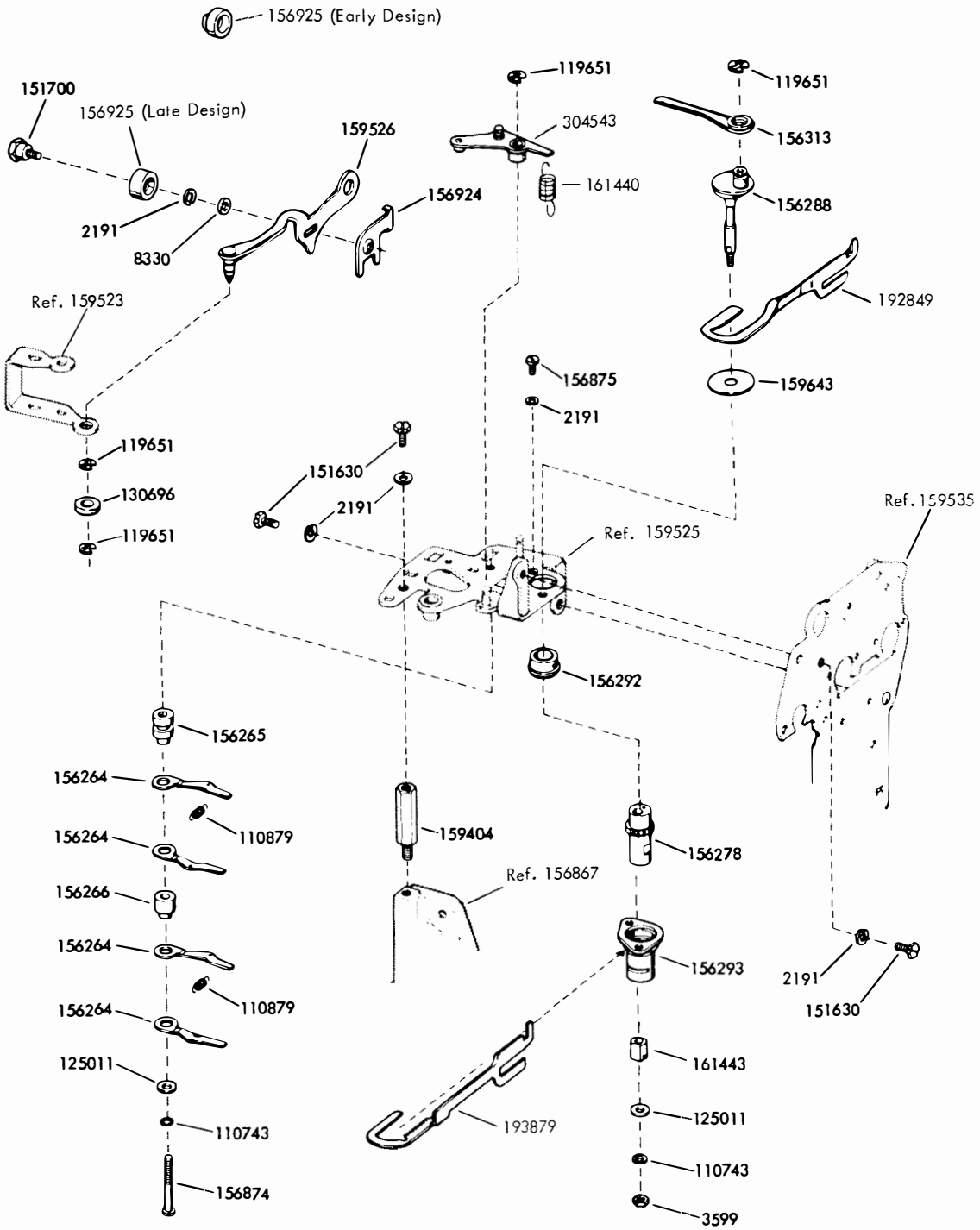
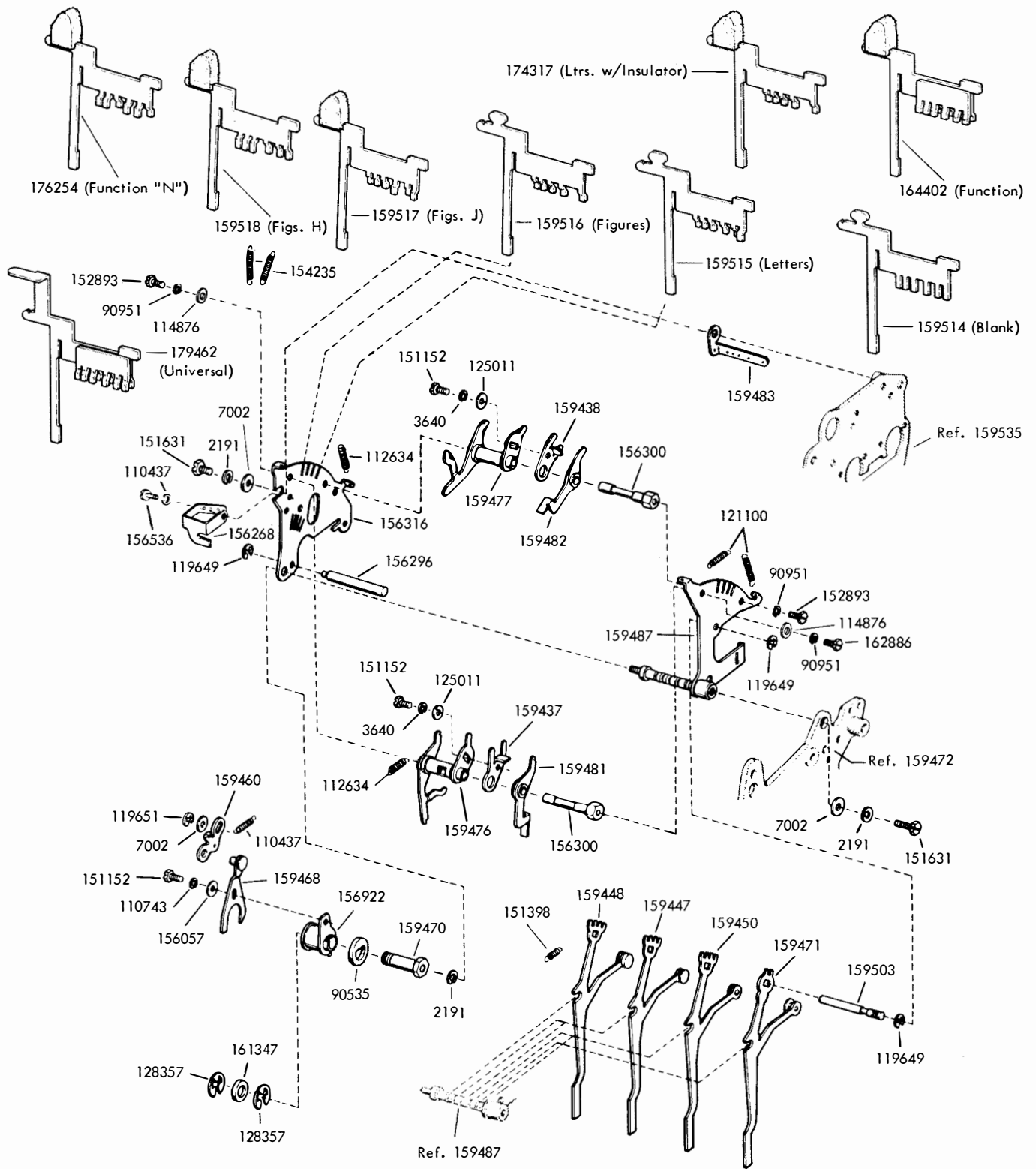


FIGURE 10. AXIAL POSITIONING MECHANISM (Continued)



Note:
For coding of uncoded blades,
See Principals of Operation Section.

FIGURE 11. FUNCTION BOX MECHANISM

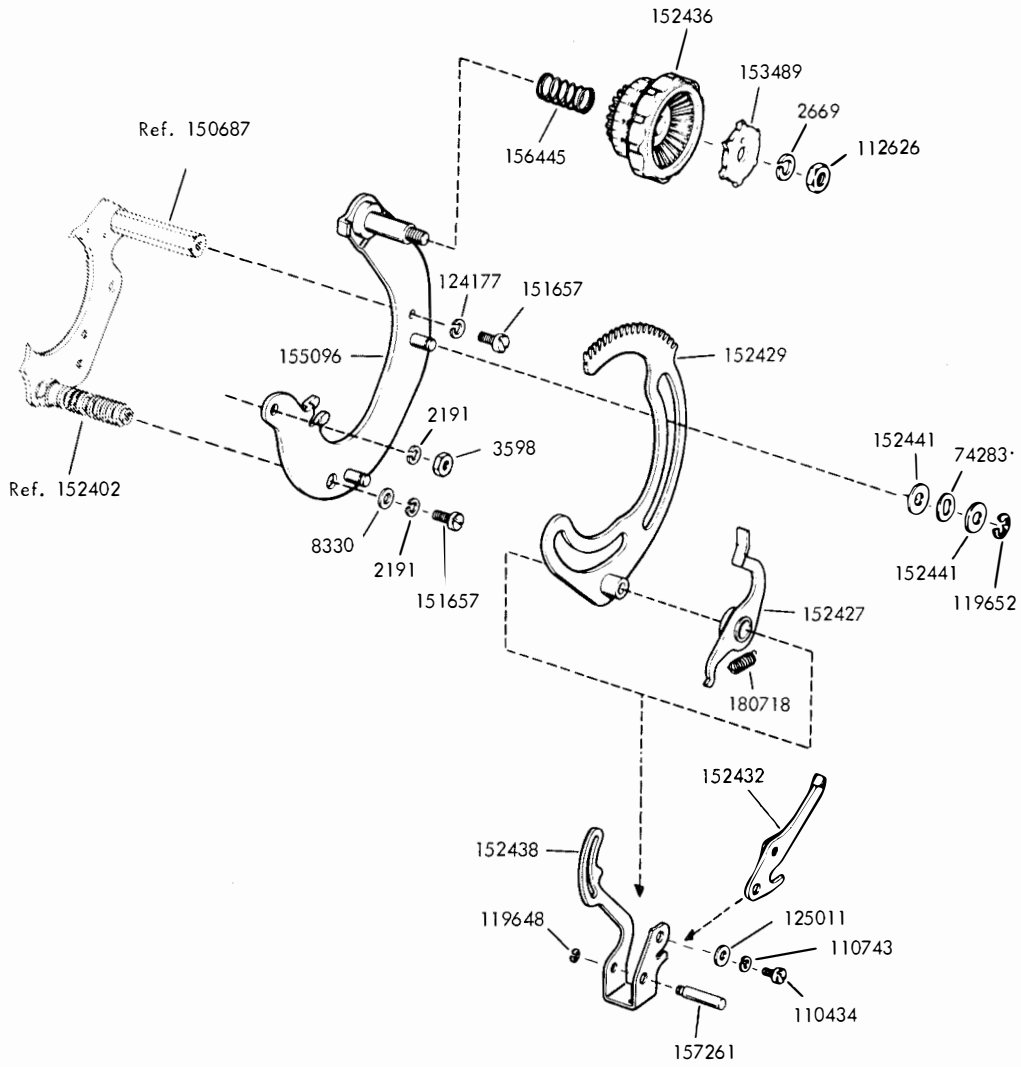


FIGURE 12. RANGE FINDER MECHANISM

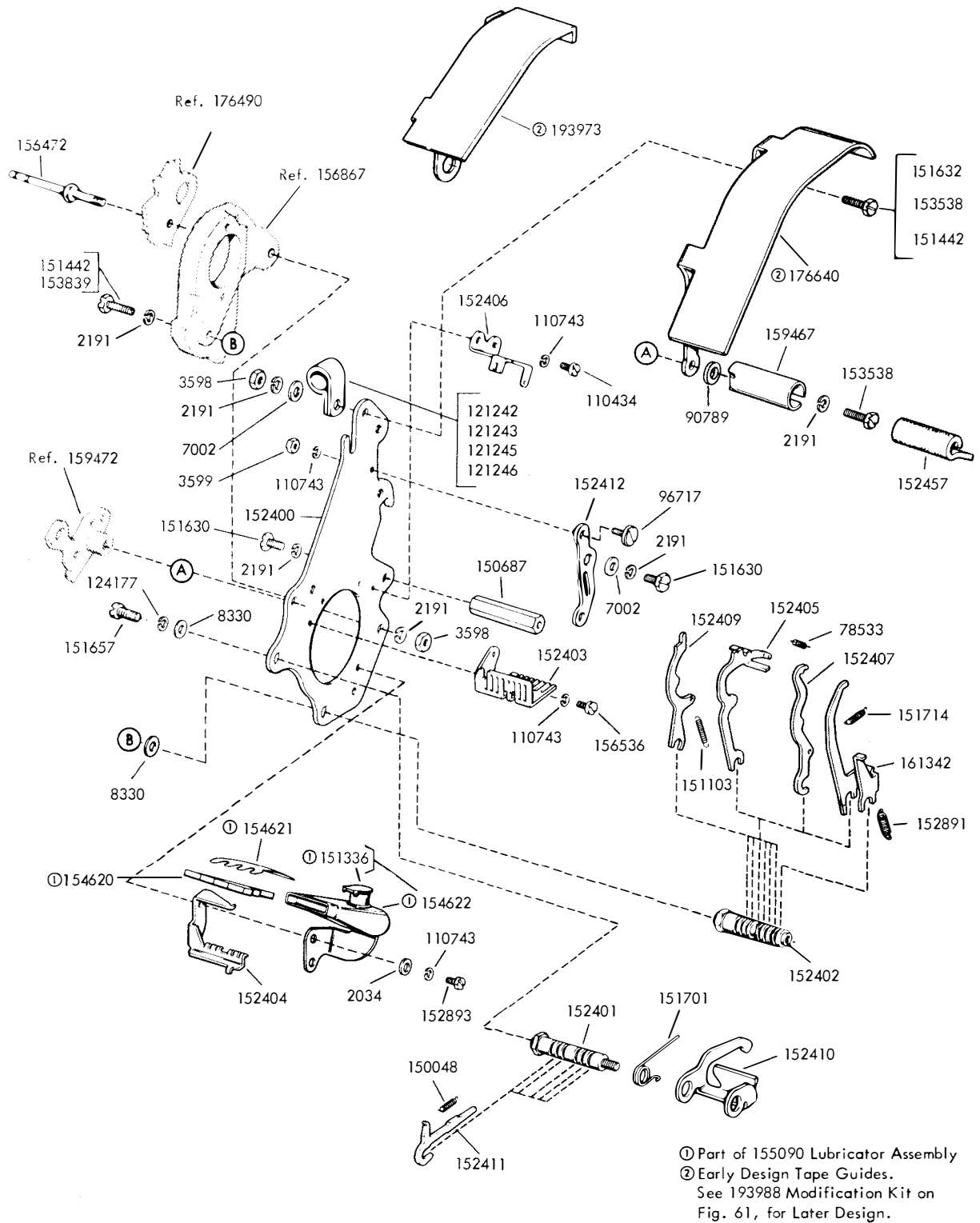
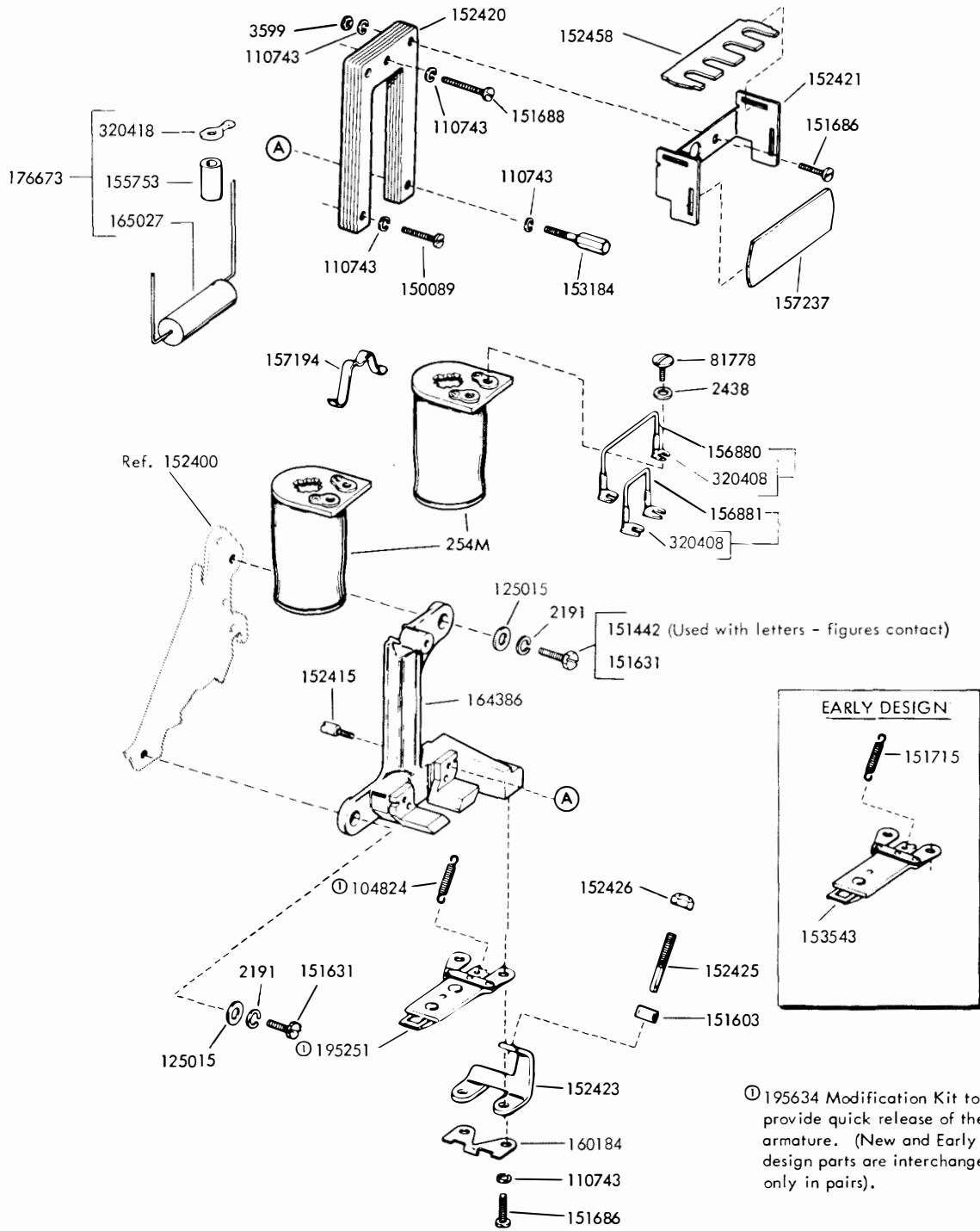


FIGURE 13. SELECTING MECHANISM



195634 - Specification 501655

FIGURE 14. SELECTING MAGNET MECHANISM

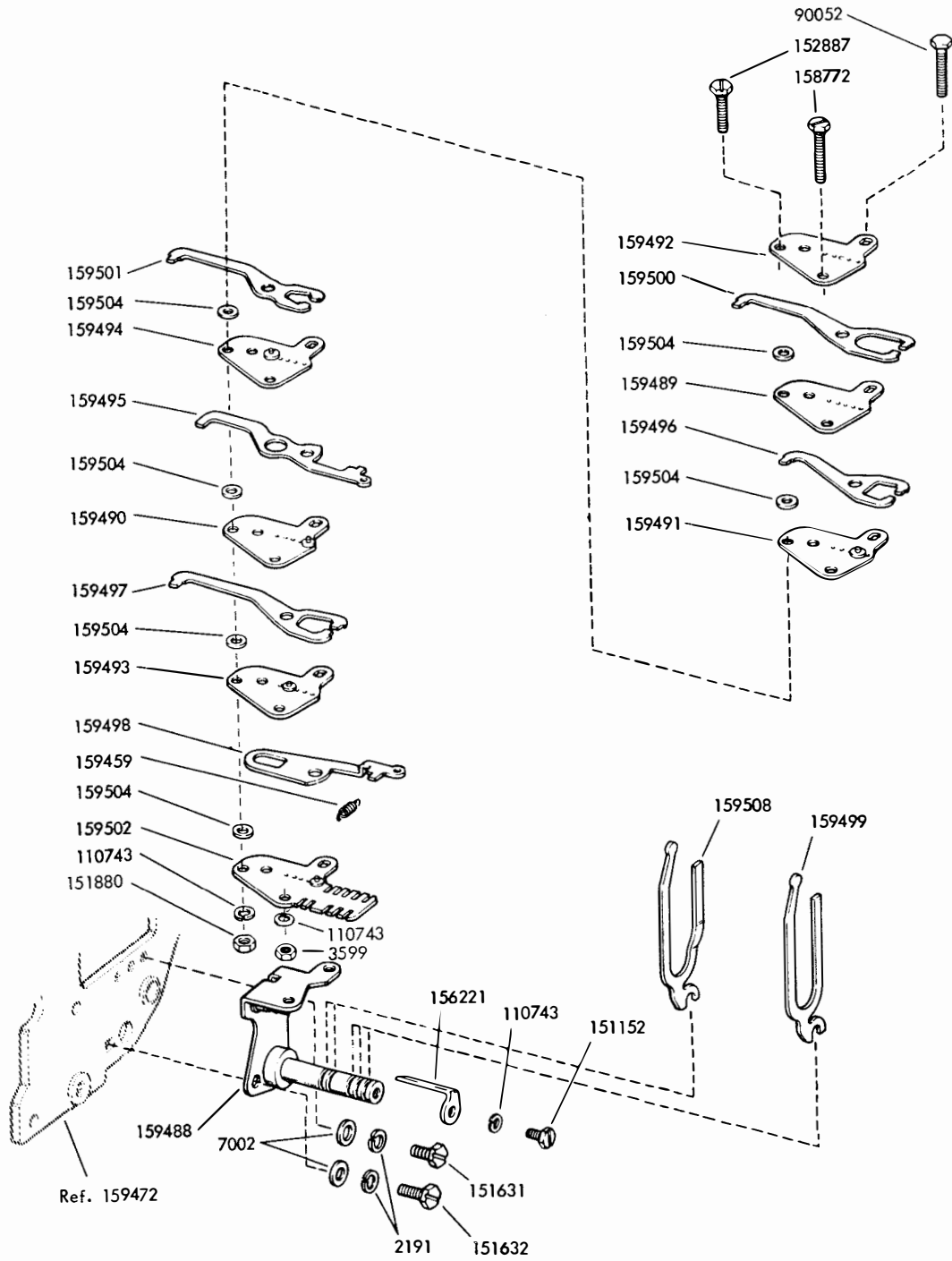
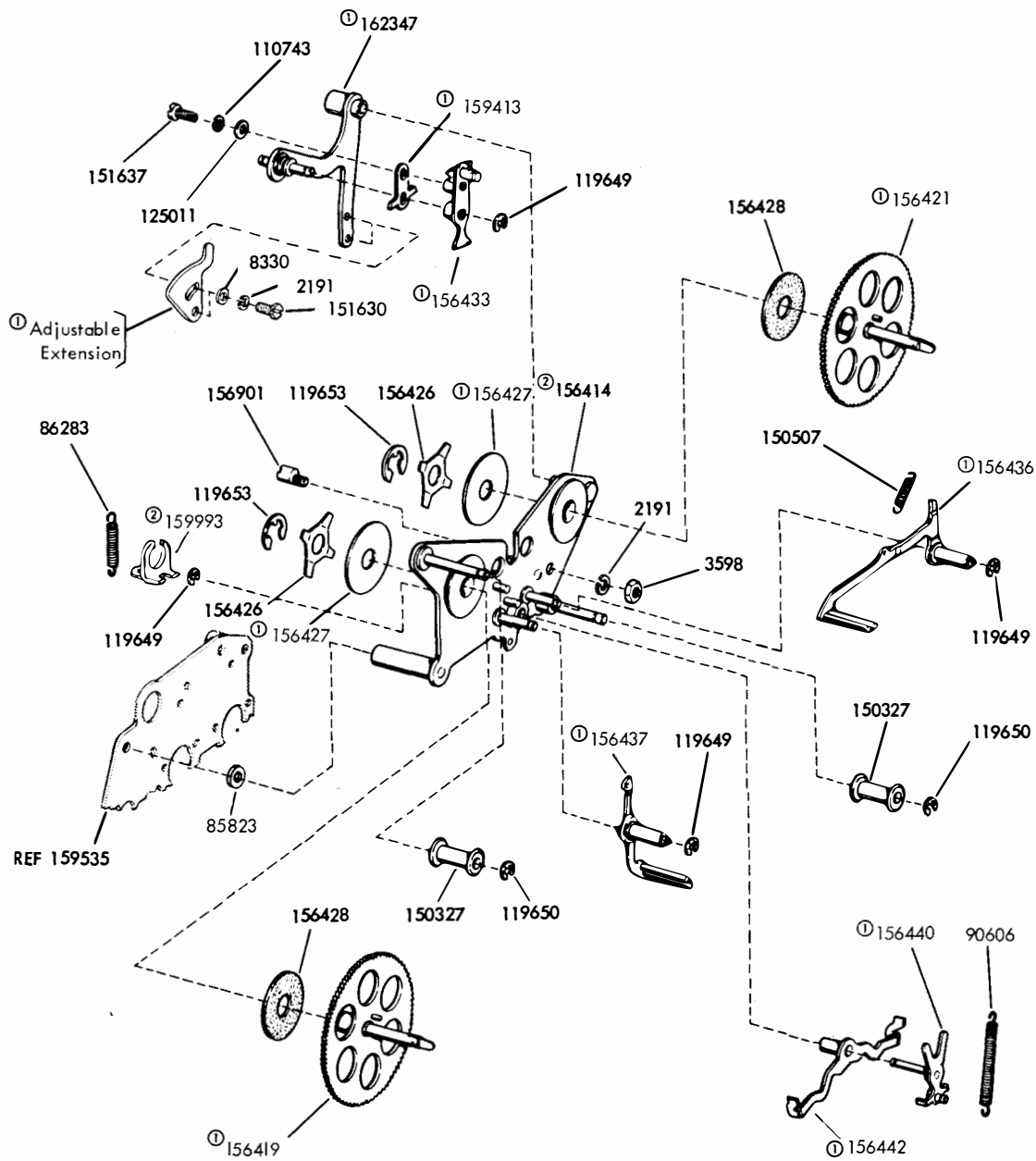


FIGURE 15. TRANSFER MECHANISM



- ① No Longer available, order the 164520 ribbon feed assembly on Fig. 21.
- ② The 159993 bracket is still available to be used with early design 156414 which did not include the drive arm spring post.

For Latest Design Ribbon Feed Mechanism, See Figure 44.

FIGURE 16. EARLY DESIGN RIBBON FEED PARTS

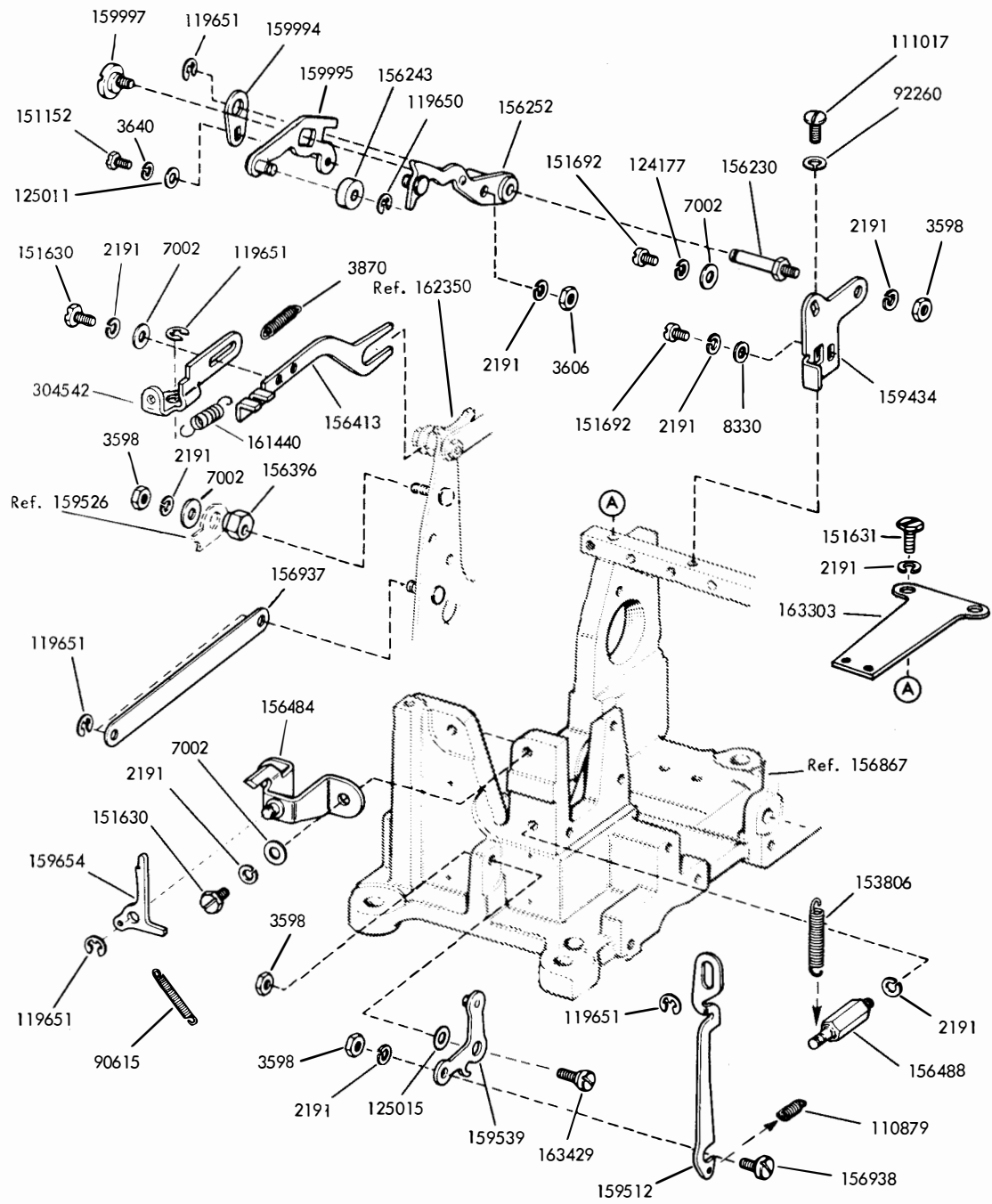


FIGURE 17. TYPING MECHANISM

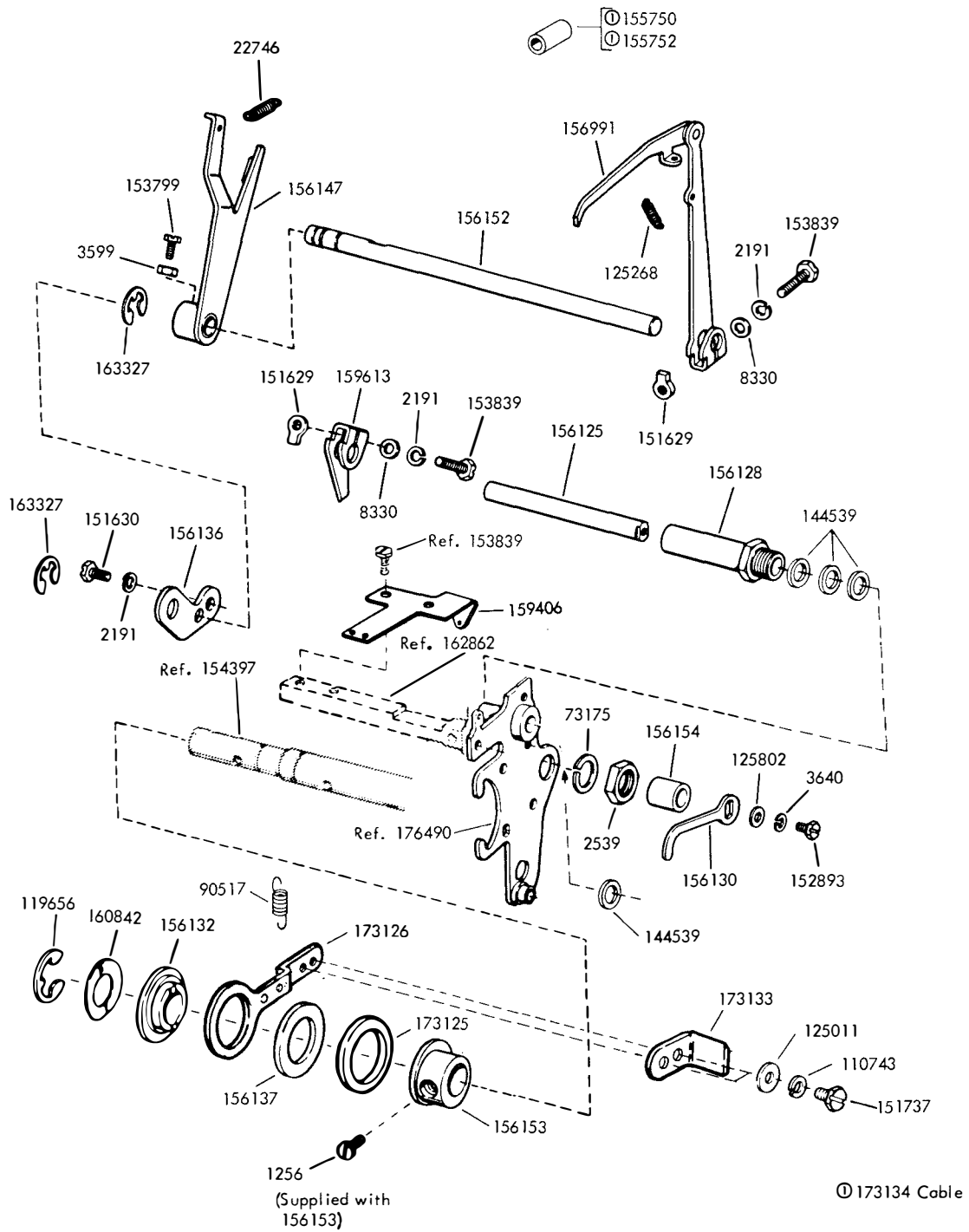


FIGURE 18. NON-INTERFERING TAPE FEED-OUT MECHANISM

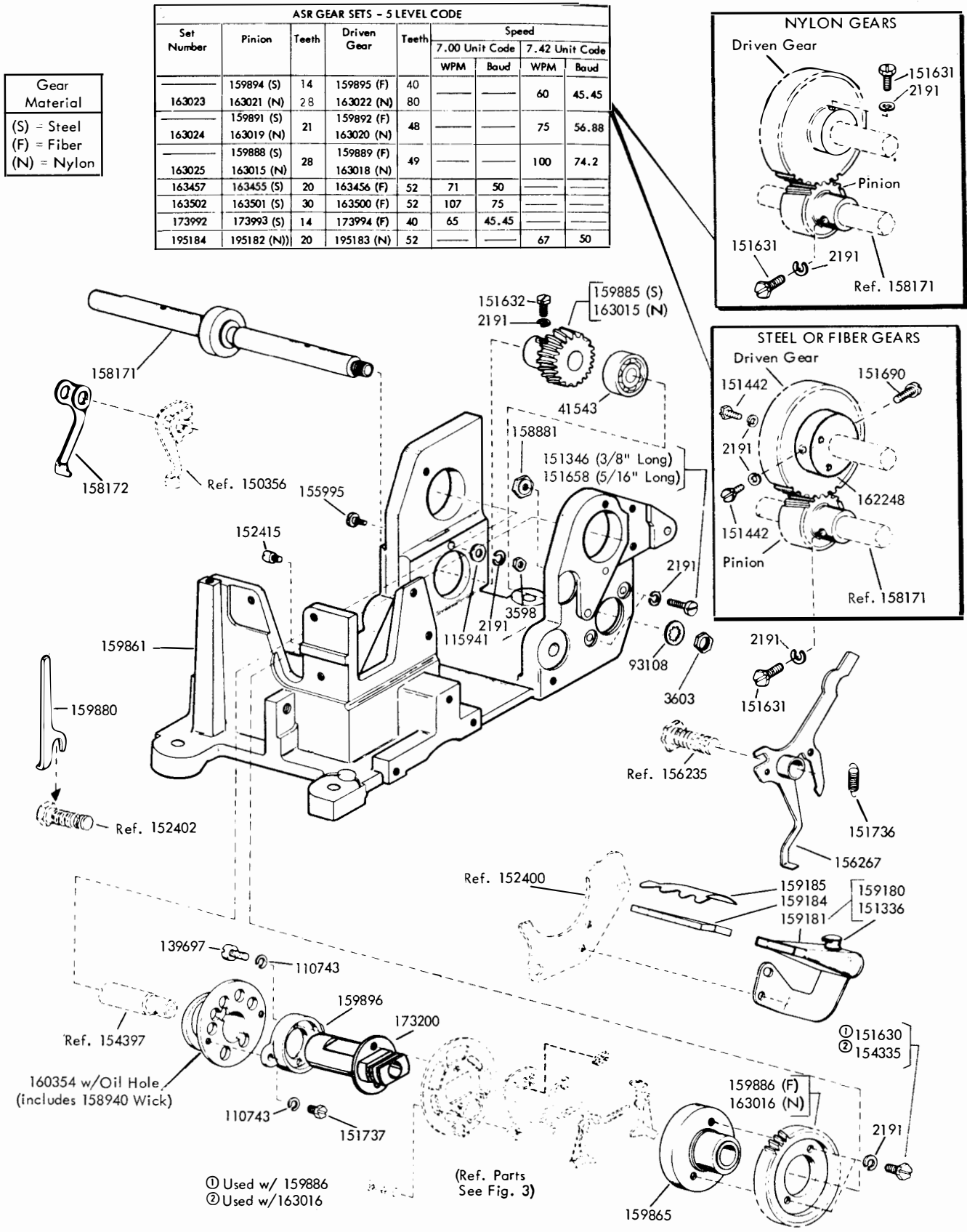


FIGURE 19. TWO-SHAFT FRAME MECHANISM (F OR ASR KEYBOARD)

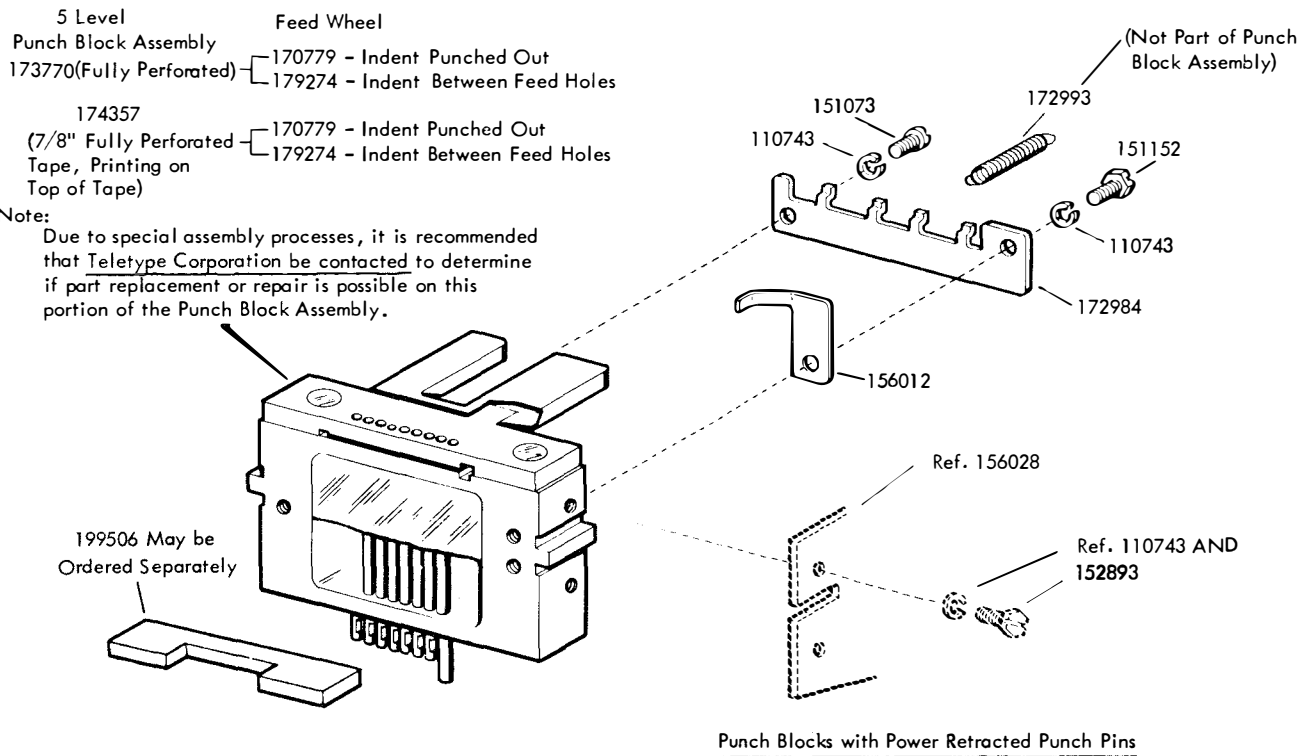
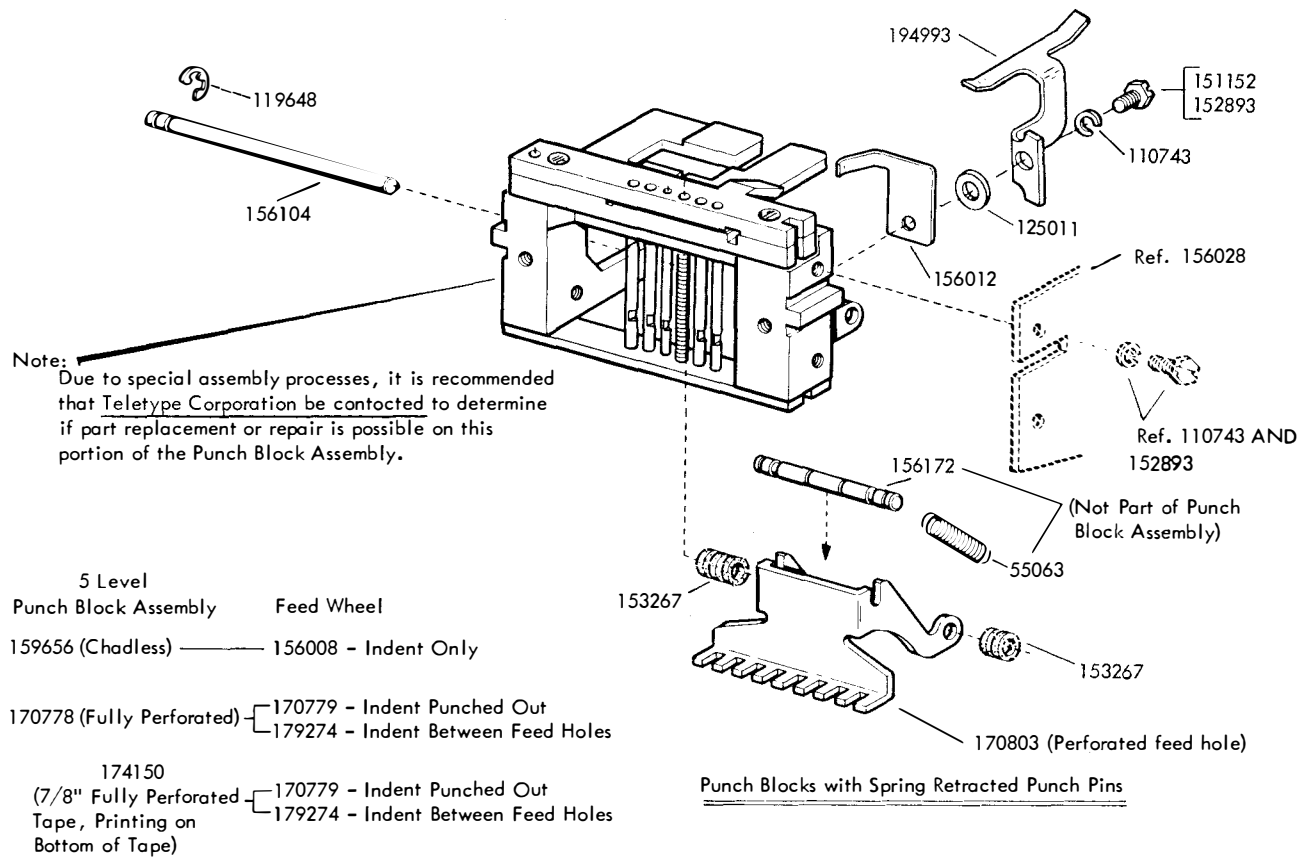


FIGURE 20. PUNCH BLOCK ASSEMBLIES

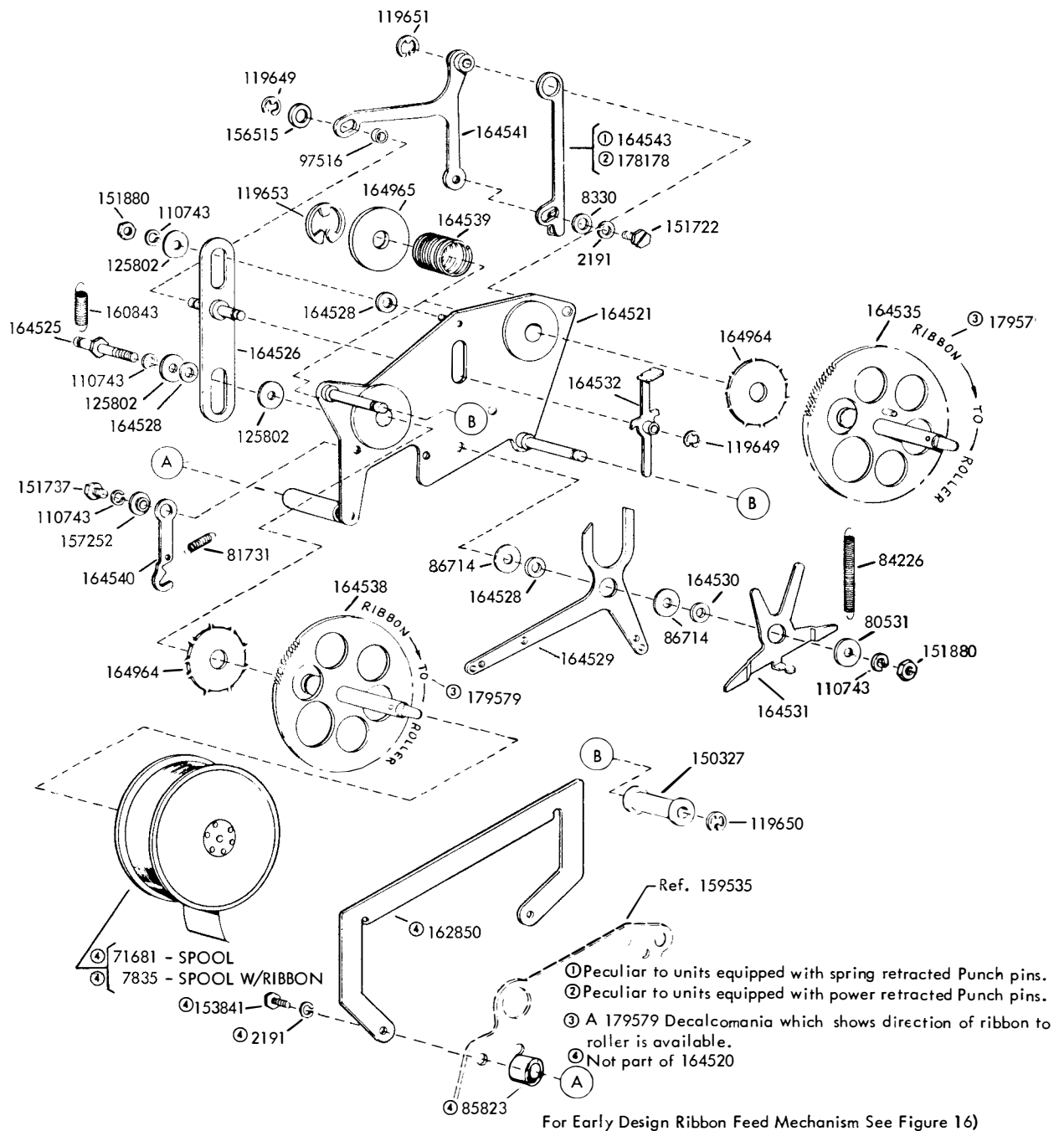


FIGURE 21. 164520 RIBBON FEED ASSEMBLY

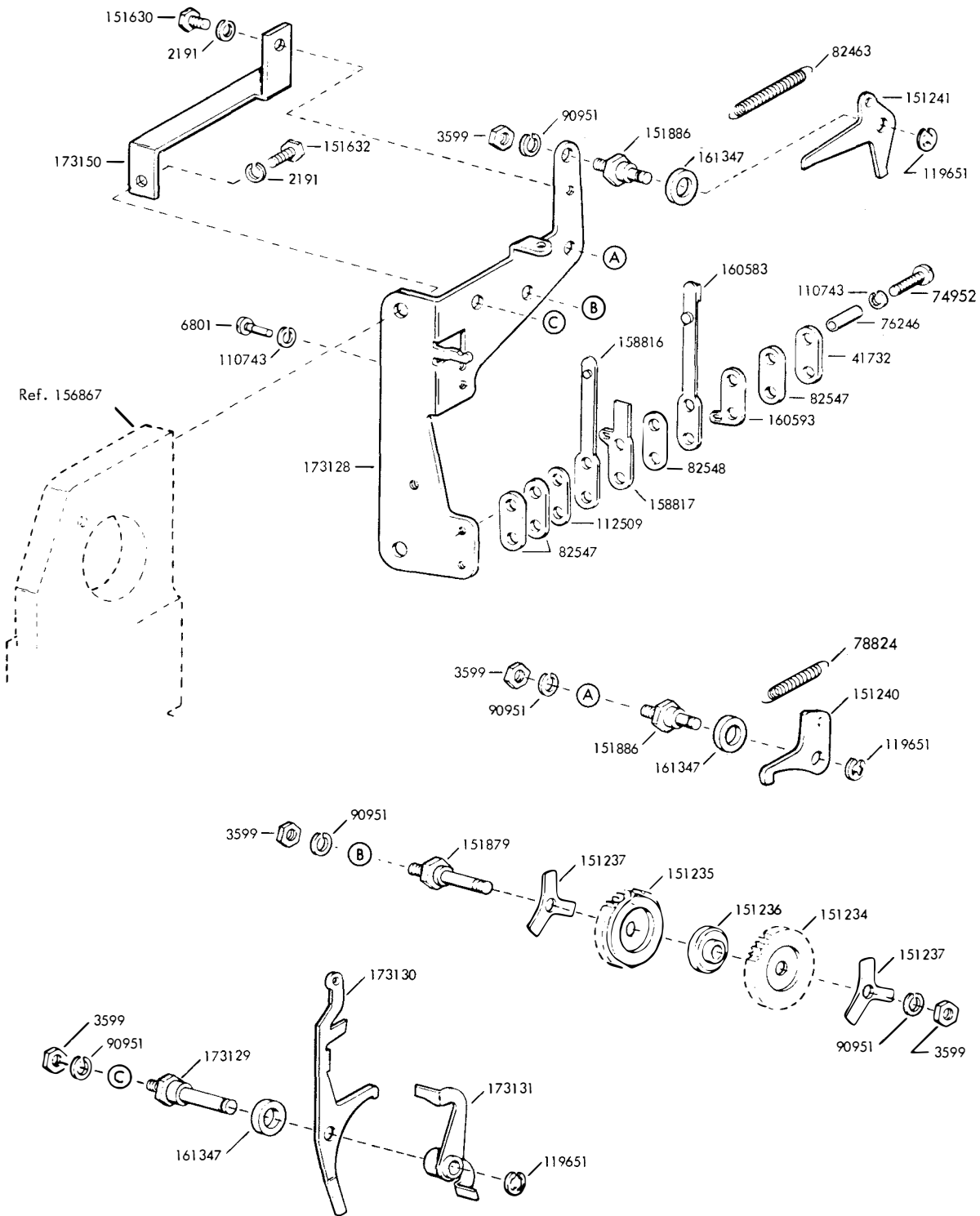
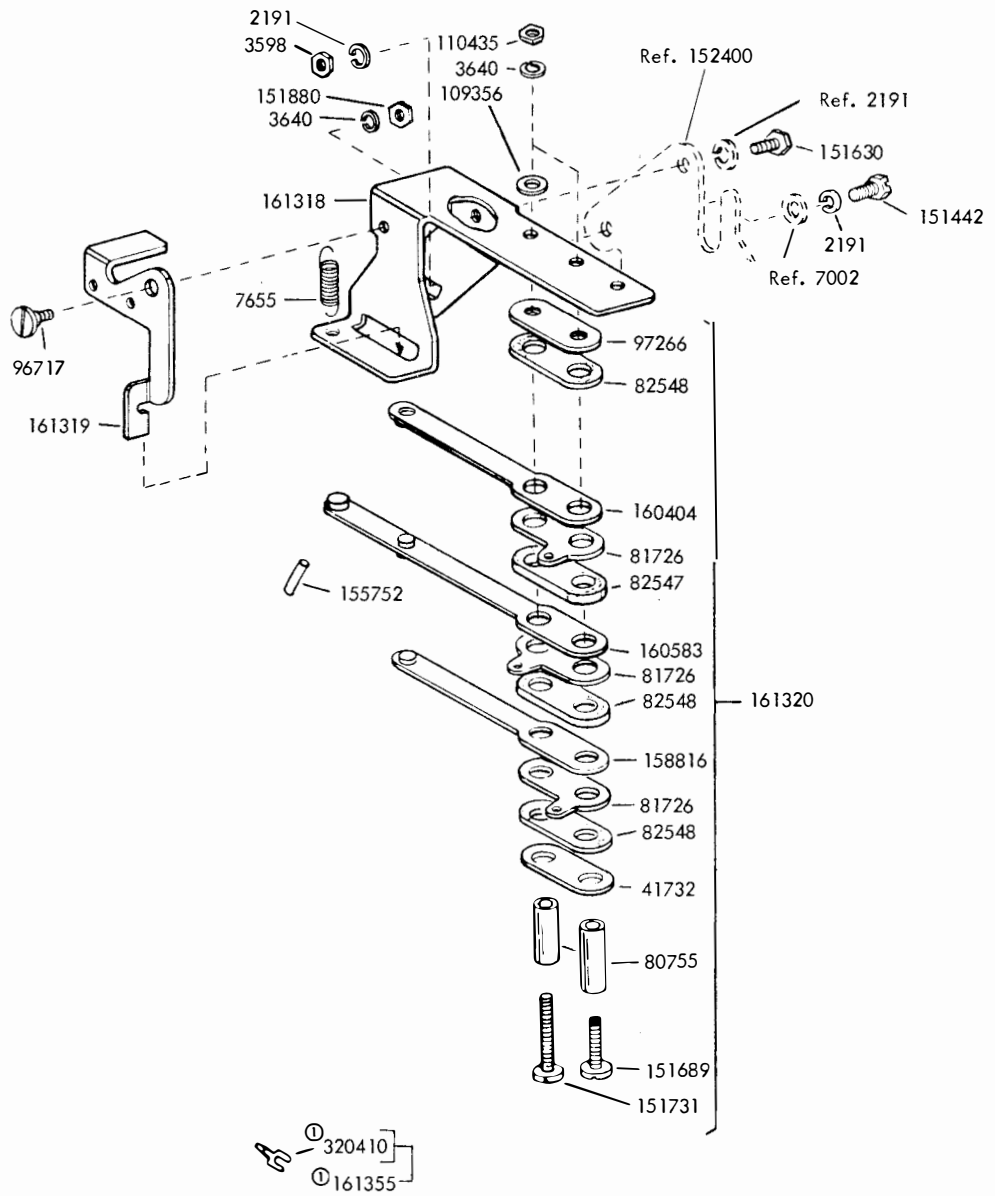


FIGURE 22. MOTOR CONTROL MECHANISM



SPECIFICATION 59055

① Peculiar to 161321

FIGURE 23. 161321 AND 162247 LETTERS - FIGURES CONTACT ASSEMBLY

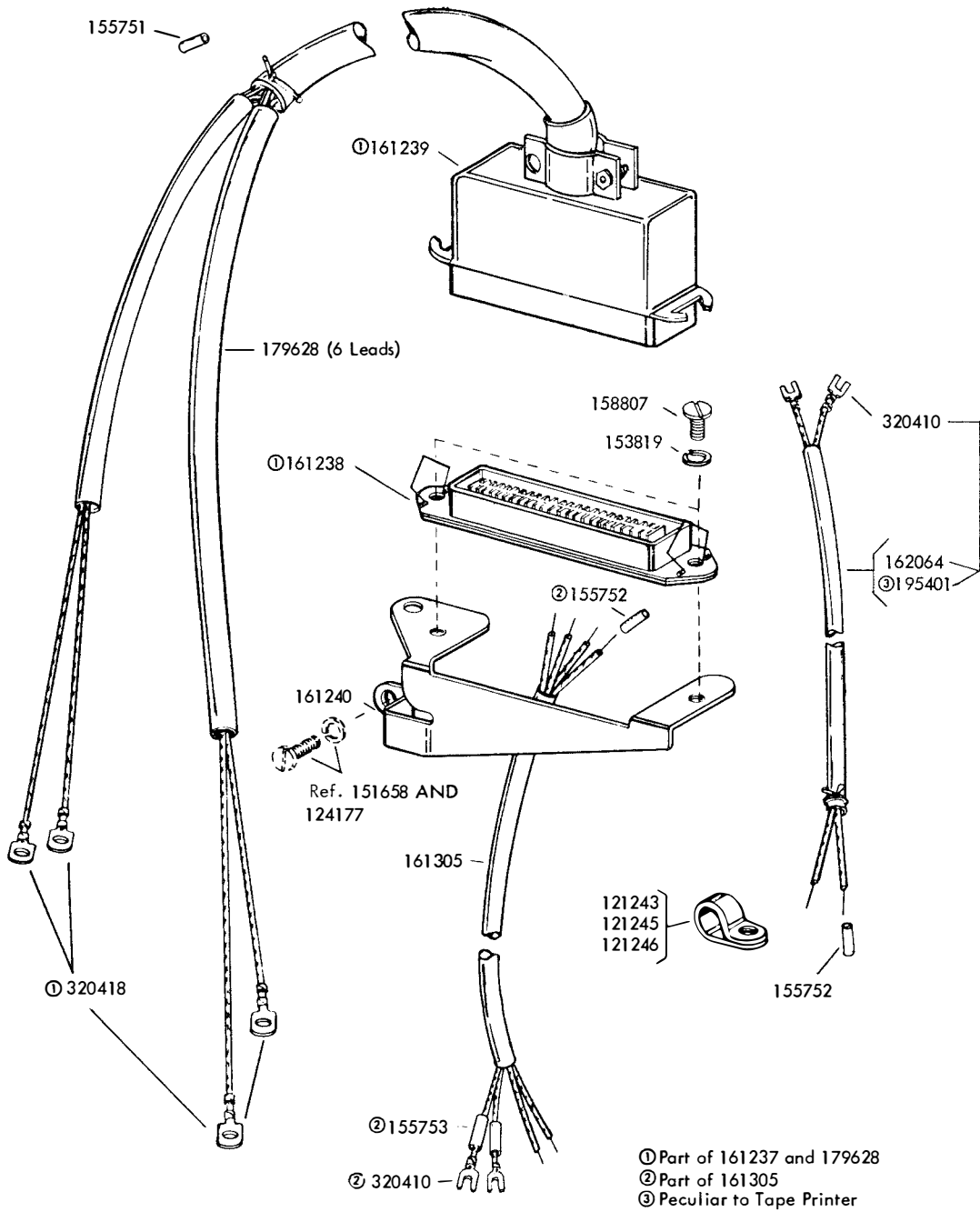
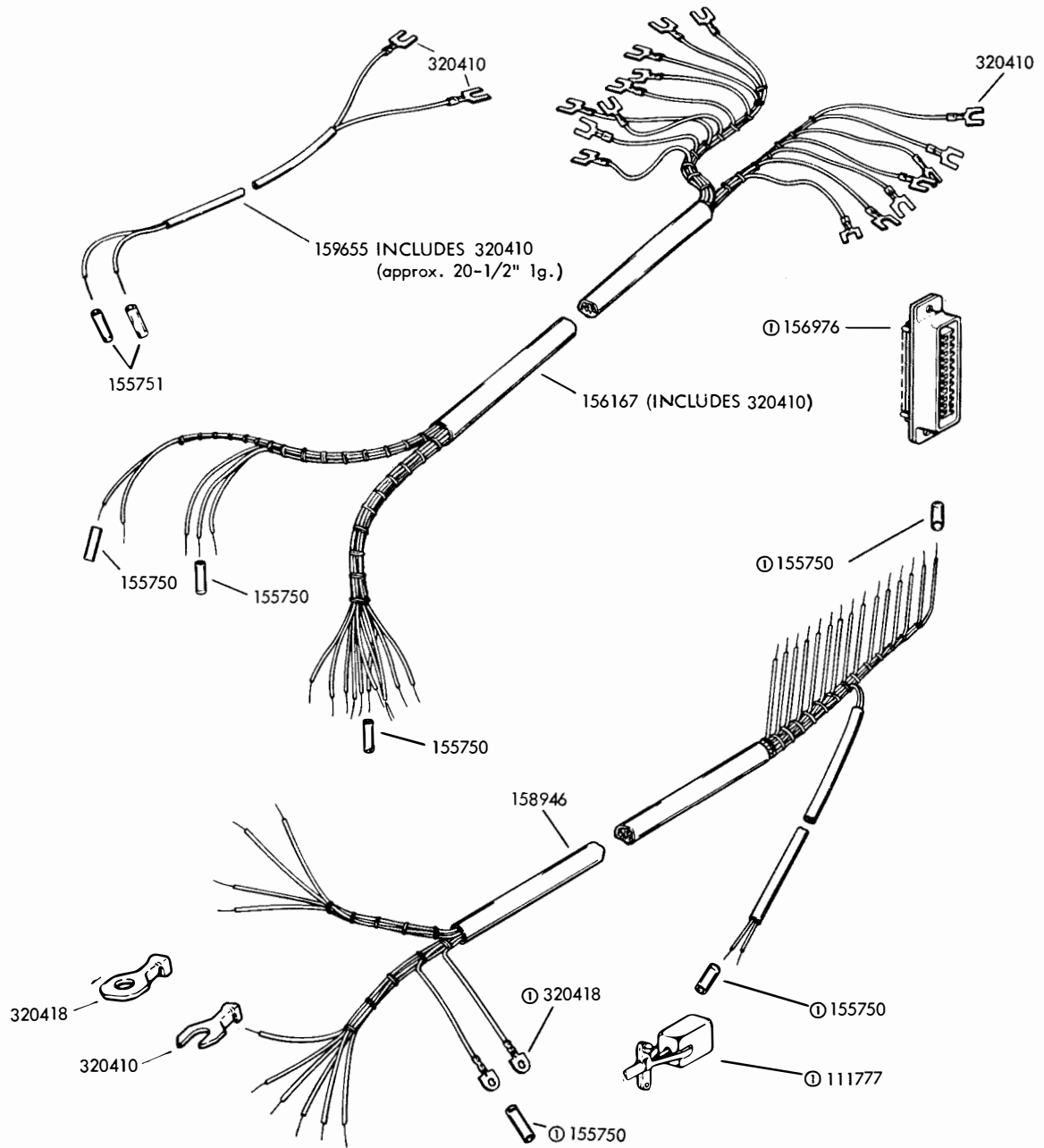
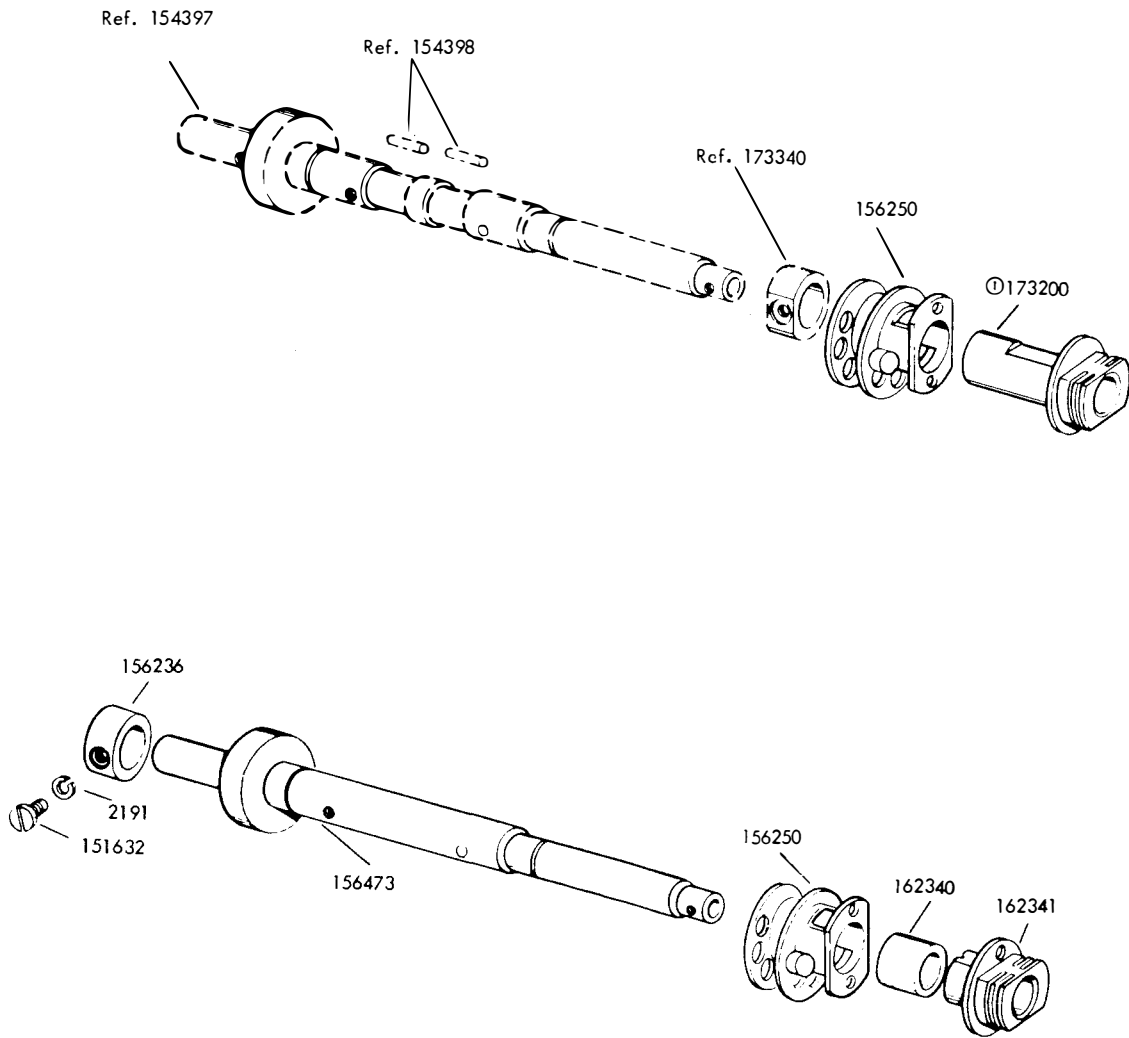


FIGURE 24. CABLES



ⓐ Peculiar to 158946

FIGURE 25. CABLES (Continued)



① Part of 173336 Modification Kit to Provide New Style Shaft and Bearing. (See Figure 3 for additional parts)

173336 - Specification 59795

FIGURE 26. EARLY DESIGN MAIN SHAFT MECHANISMS

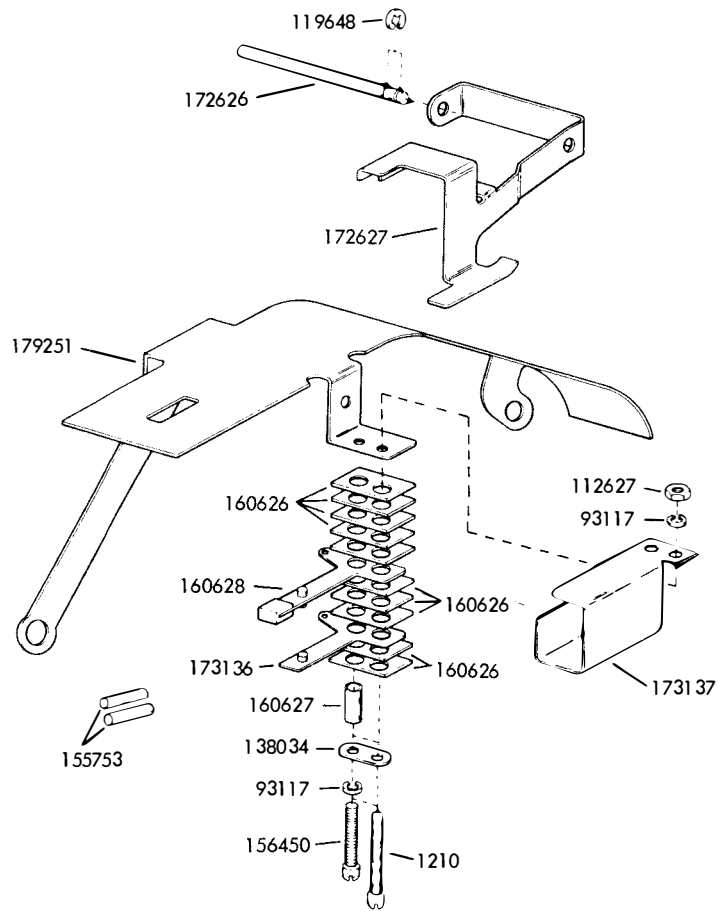


FIGURE 27. 173135 TAPE ABSENT CONTACT BRACKET ASSEMBLY

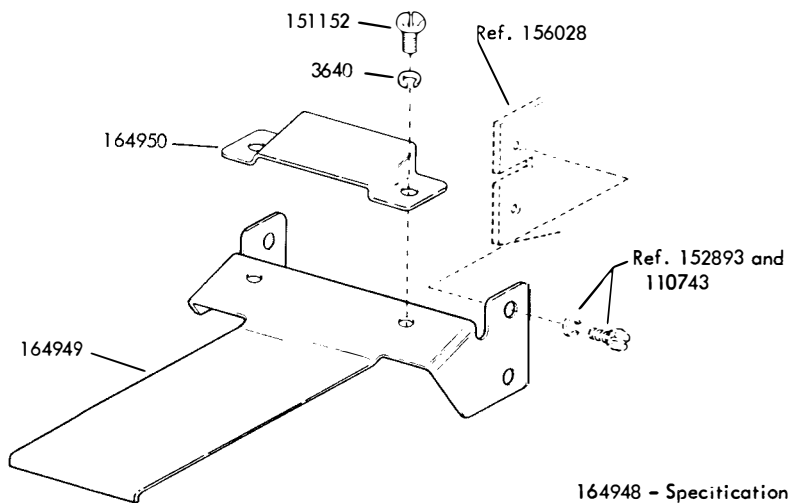


FIGURE 28. 164948 MODIFICATION KIT TO EQUIP REPERFORATOR WITH COMBINATION TAPE CHUTE AND KNIFE TEARING EDGE WHEN MOUNTED IN A UNIVERSAL CABINET

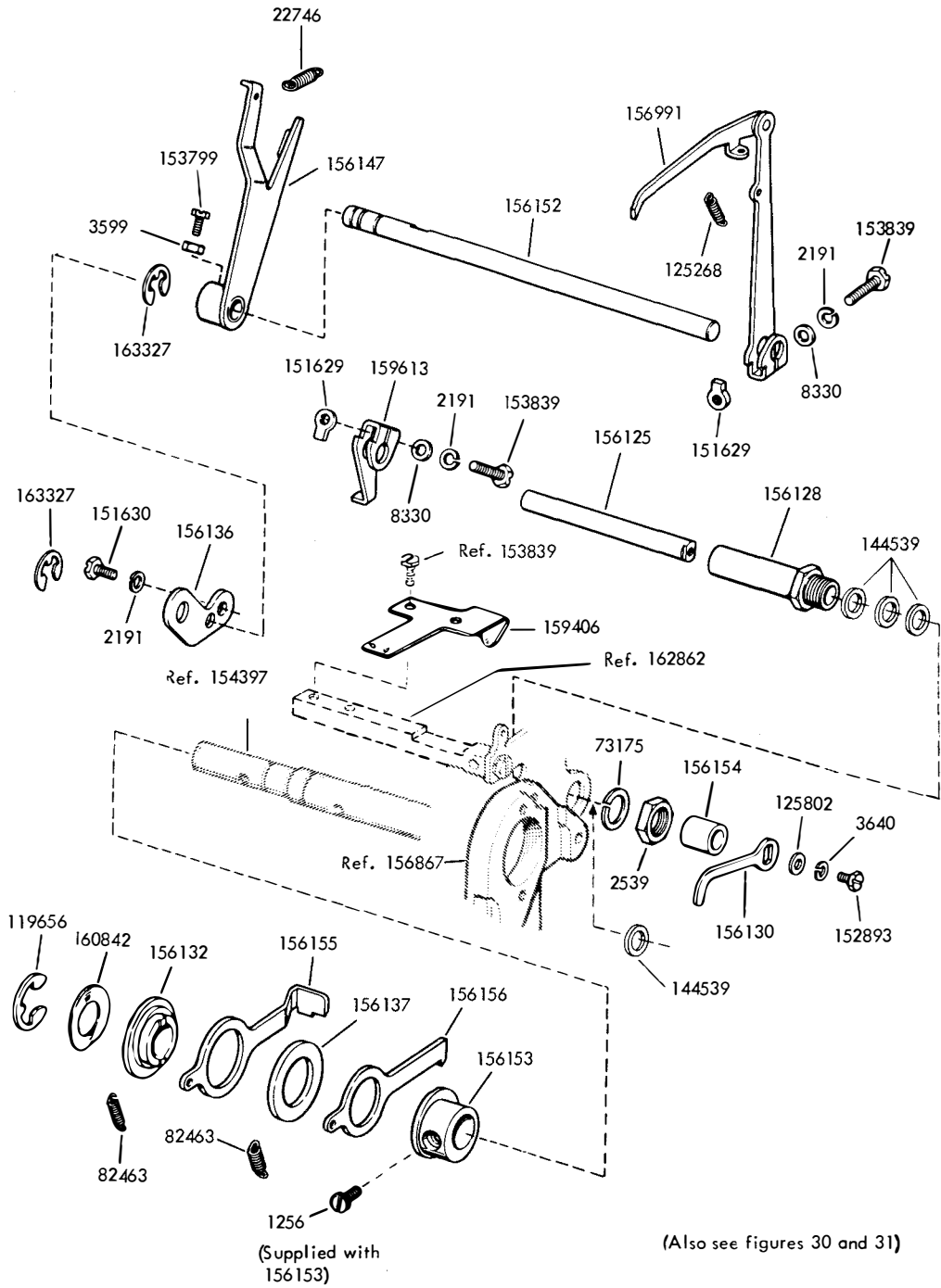
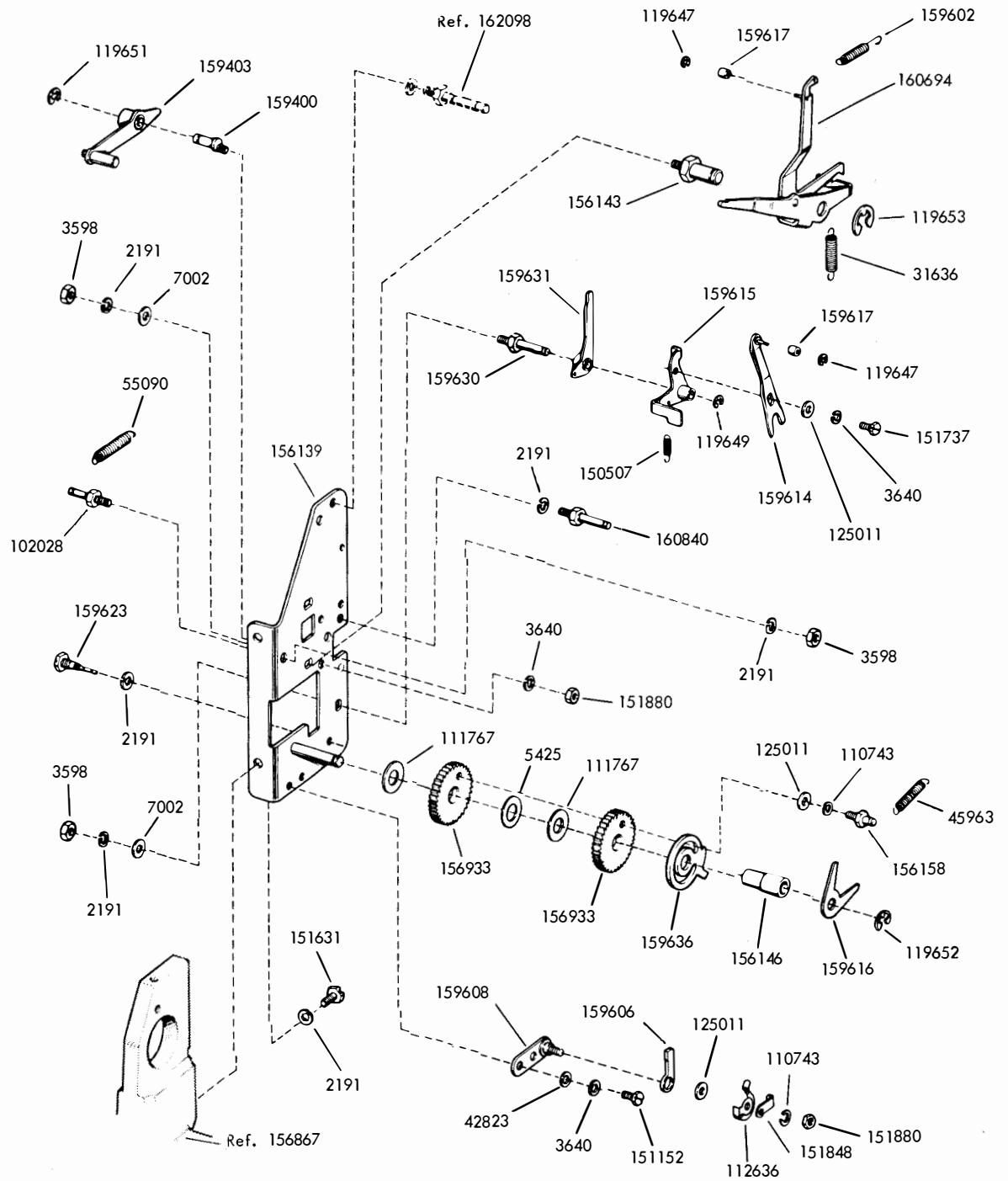
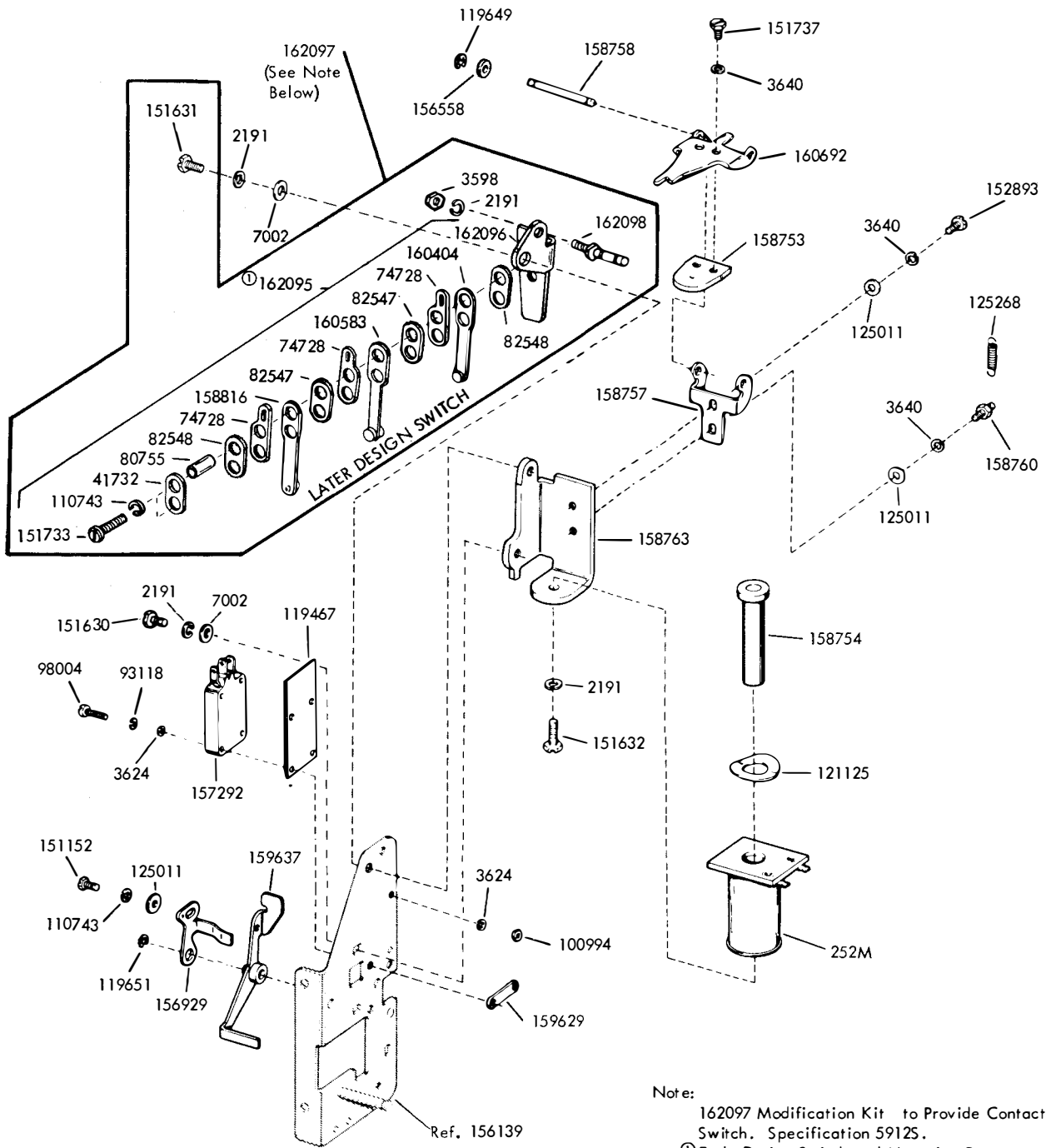


FIGURE 29. EARLY DESIGN MODIFICATION KITS FOR BLANK TAPE FEED-OUT
(No Longer Compatible with Fully Perforated Tape)



(Also see figures 29 and 31)

FIGURE 30. EARLY DESIGN MODIFICATION KITS FOR BLANK TAPE FEED-OUT
(No Longer Compatible with Fully Perforated Tape)



(Also see figures 29 and 30)

FIGURE 31. EARLY DESIGN MODIFICATION KITS FOR BLANK TAPE FEED-OUT (No Longer Compatible with Fully Perforated Tape)

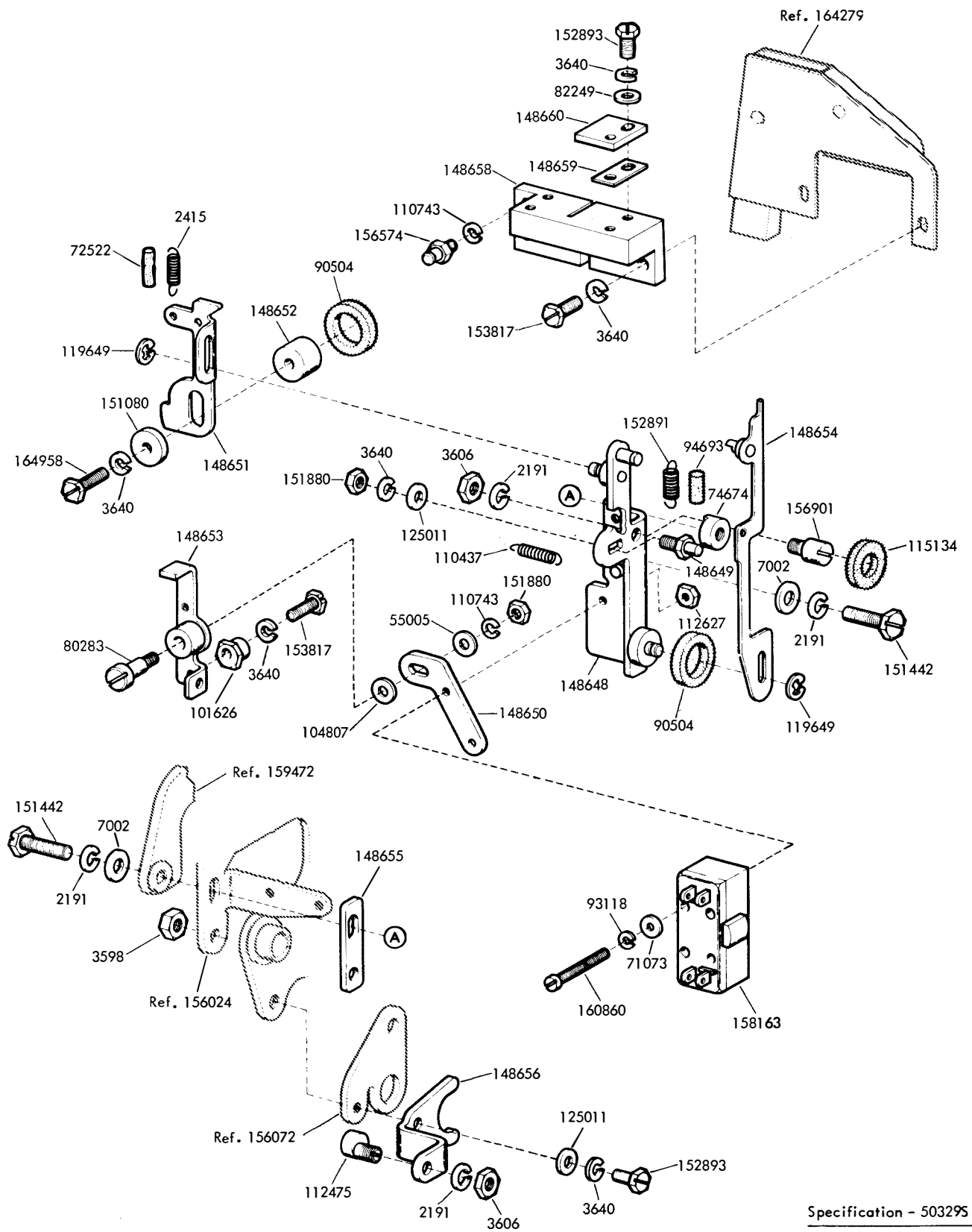


FIGURE 32. 148630 MODIFICATION KIT TO PROVIDE TAPE IN MOTION MECHANISM

Specification - 503295

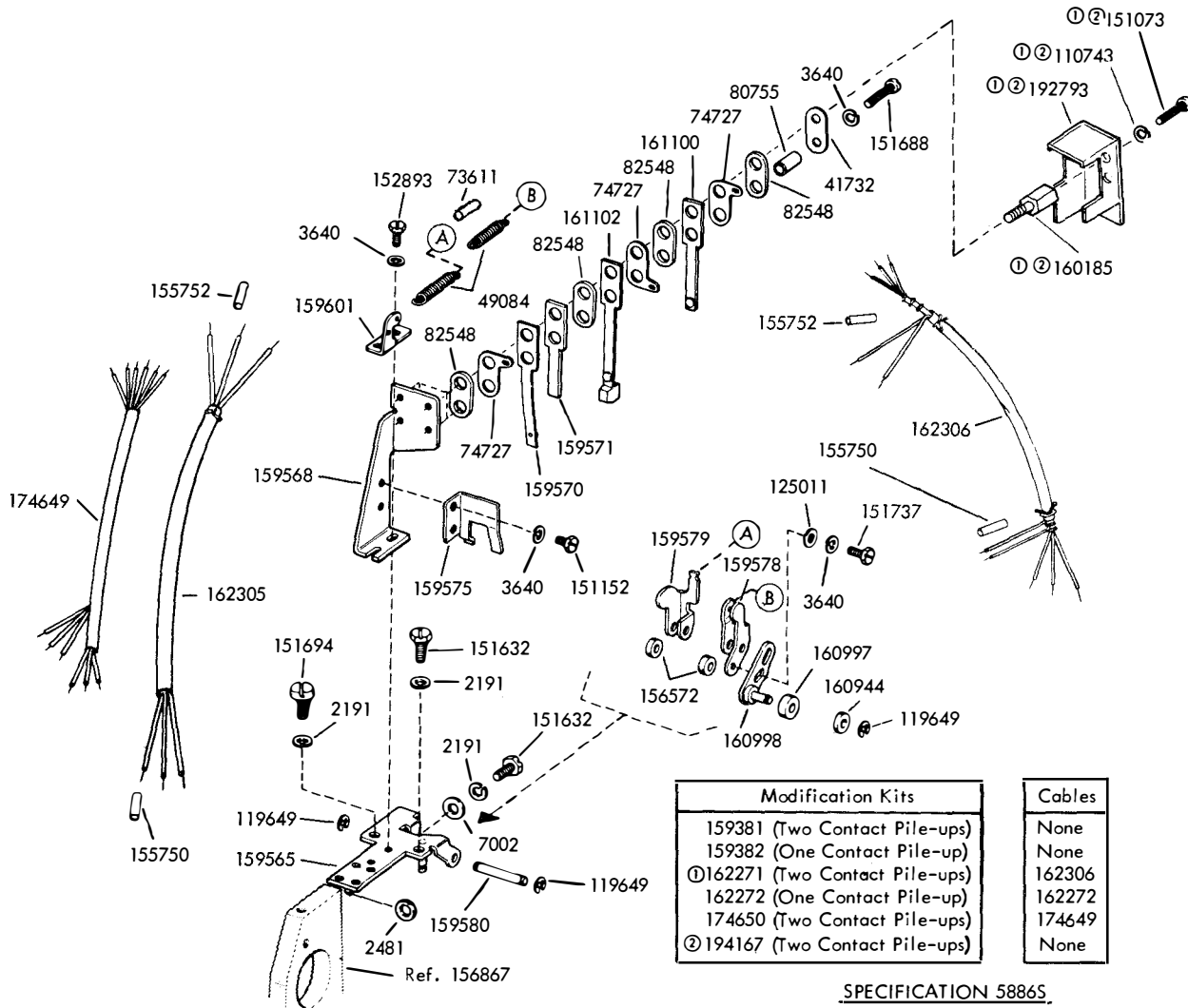


FIGURE 33. MODIFICATION KITS TO ADD TIMING CONTACTS

MODIFICATION KIT	CONTACT ASSEMBLY		CABLE
	TRANSFER	MAKE-ONLY	
159379		158950	
159380	156078		
162273	156078		162304
162274		158950	162303
163945	156078		163946

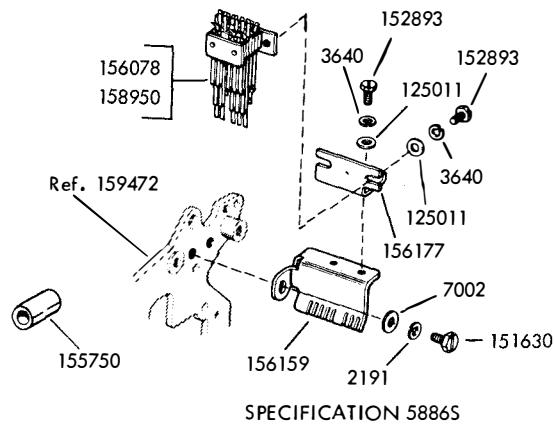


FIGURE 34. MODIFICATION KITS TO ADD CODE READING CONTACTS

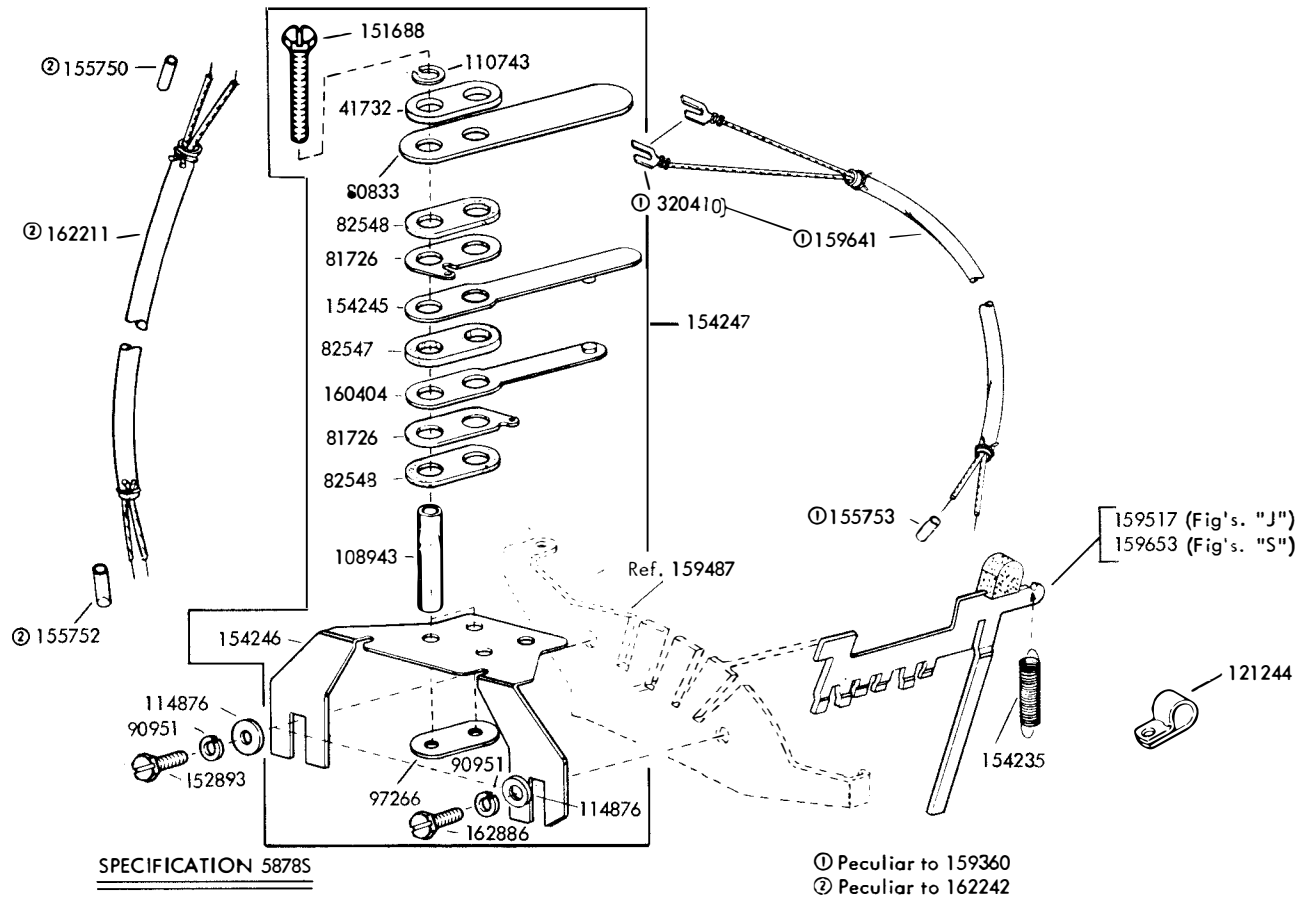


FIGURE 35. 159360 AND 162242 MODIFICATION KITS TO ADD SIGNAL BELL CONTACT

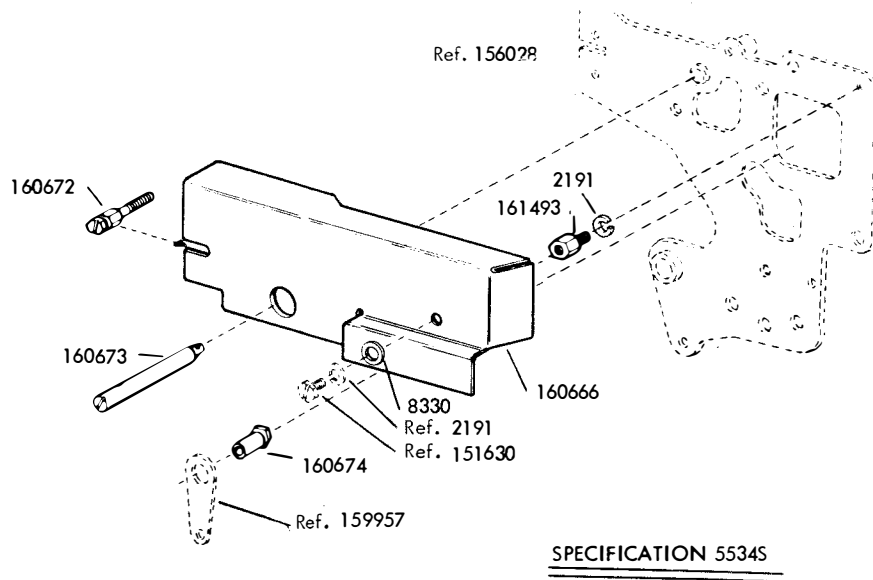


FIGURE 36. 160881 MODIFICATION KIT TO ADD GUARD FOR BACKSPACE MECHANISM (PRINTING ON EDGE OF TAPE)

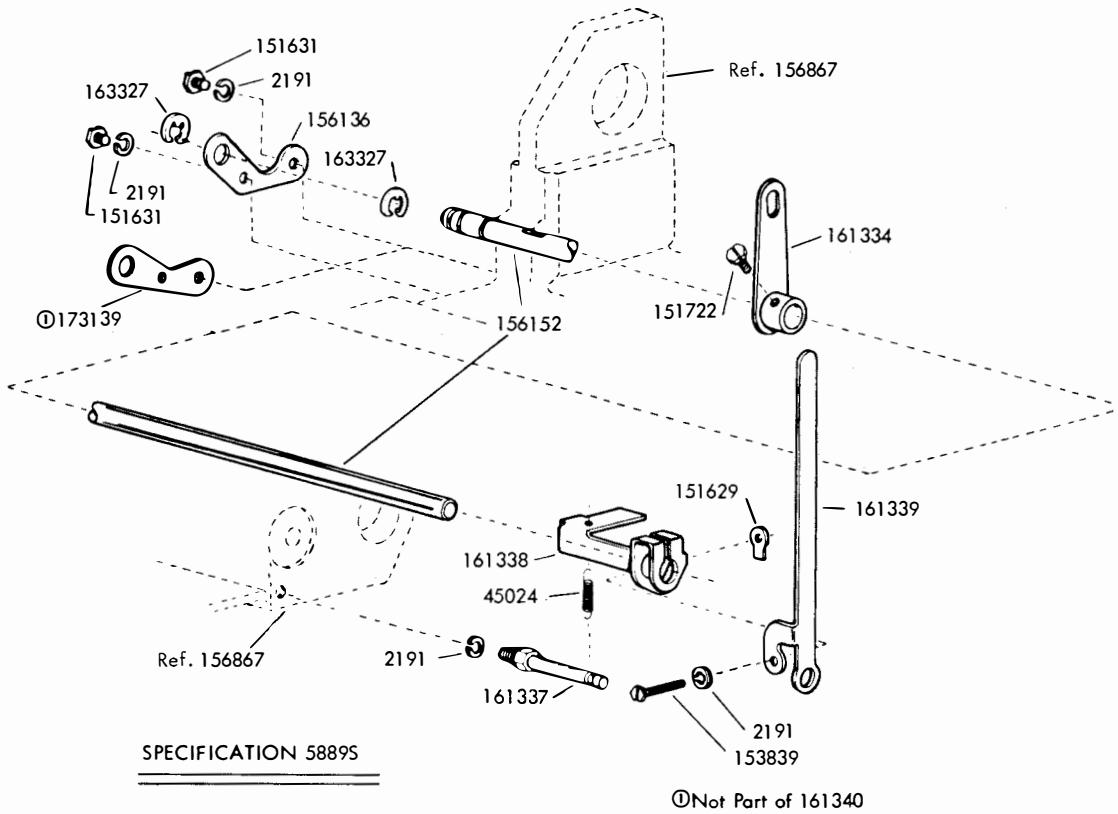


FIGURE 37. 161340 MODIFICATION KIT TO ADD MANUAL INTERFERING LETTERS TAPE FEED-OUT

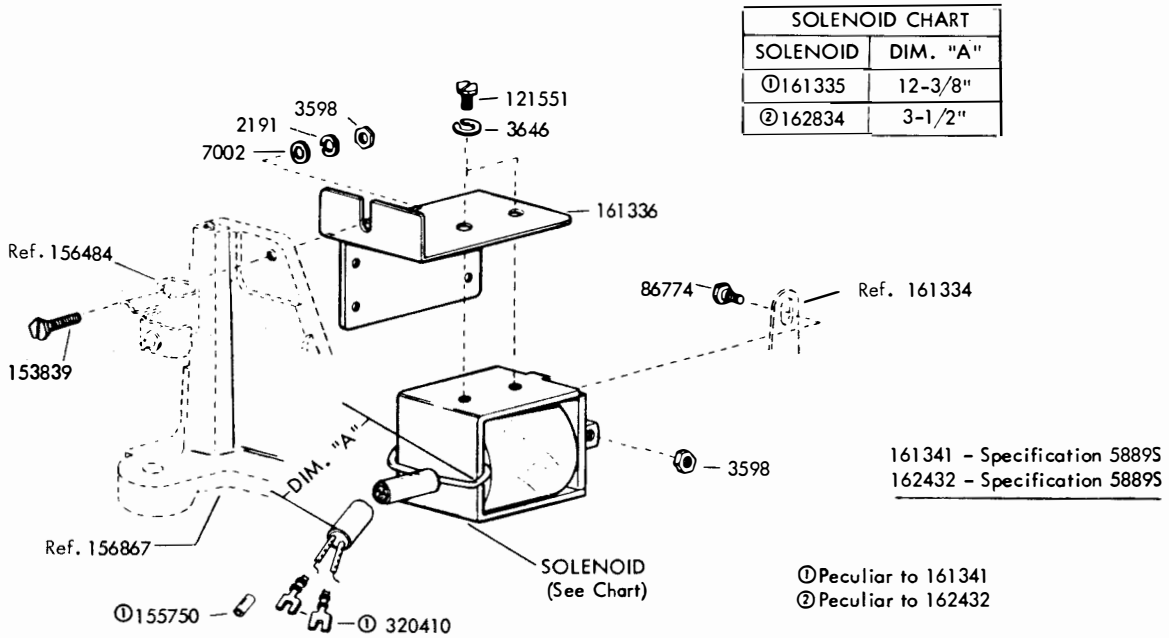
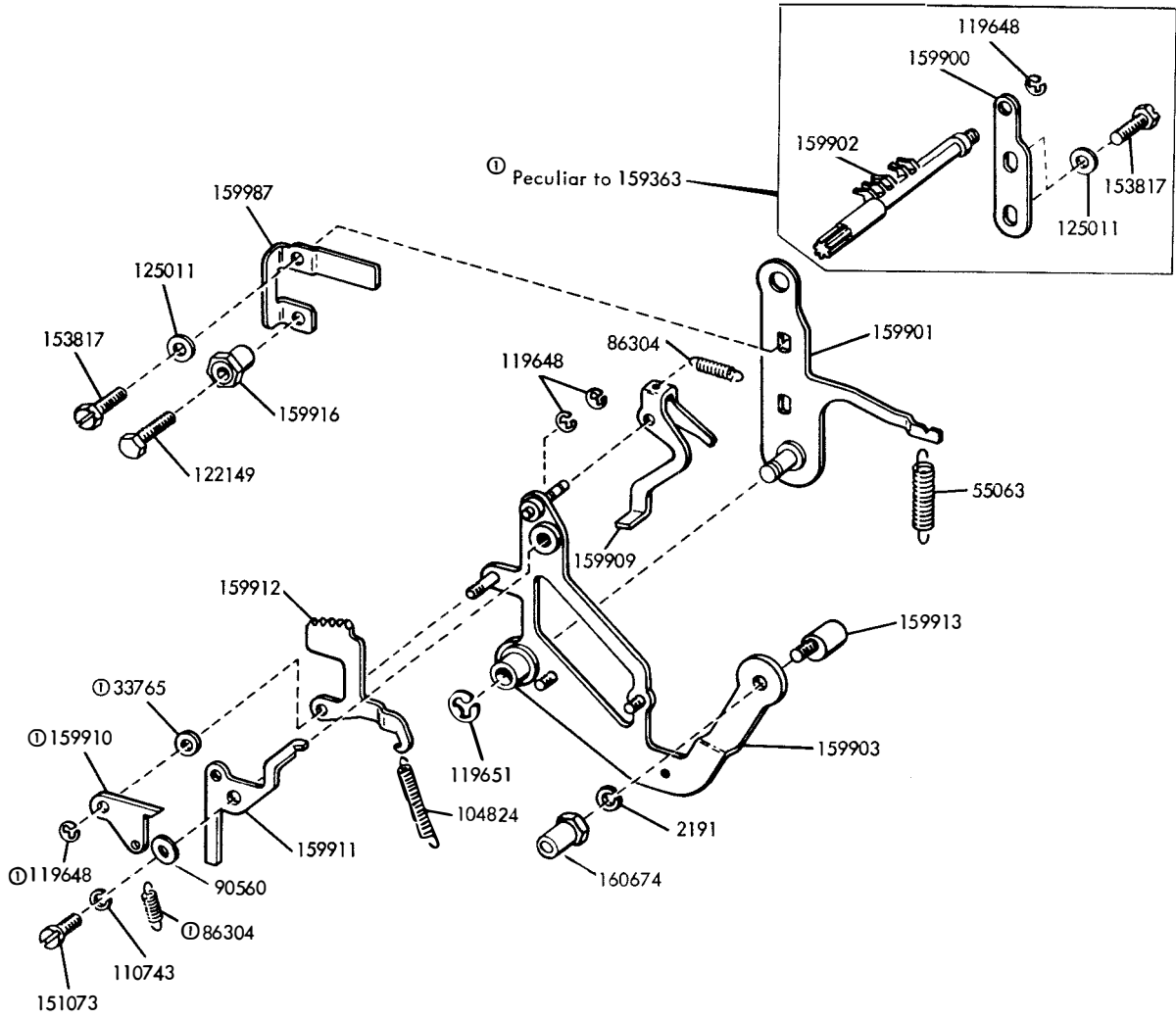


FIGURE 38. 161341 AND 162432 MODIFICATION KITS TO ADD SOLENOID OPERATIONS TO LETTERS FEED-OUT



159363 - Specification 55345
 172640 - Specification 55345

① Used w/159363

FIGURE 39. 159363 (CHADLESS TAPE) AND 172640 (FULLY PERFORATED TAPE) MODIFICATION KITS TO ADD MANUAL BACKSPACE (PRINTING ON EDGE OF TAPE)

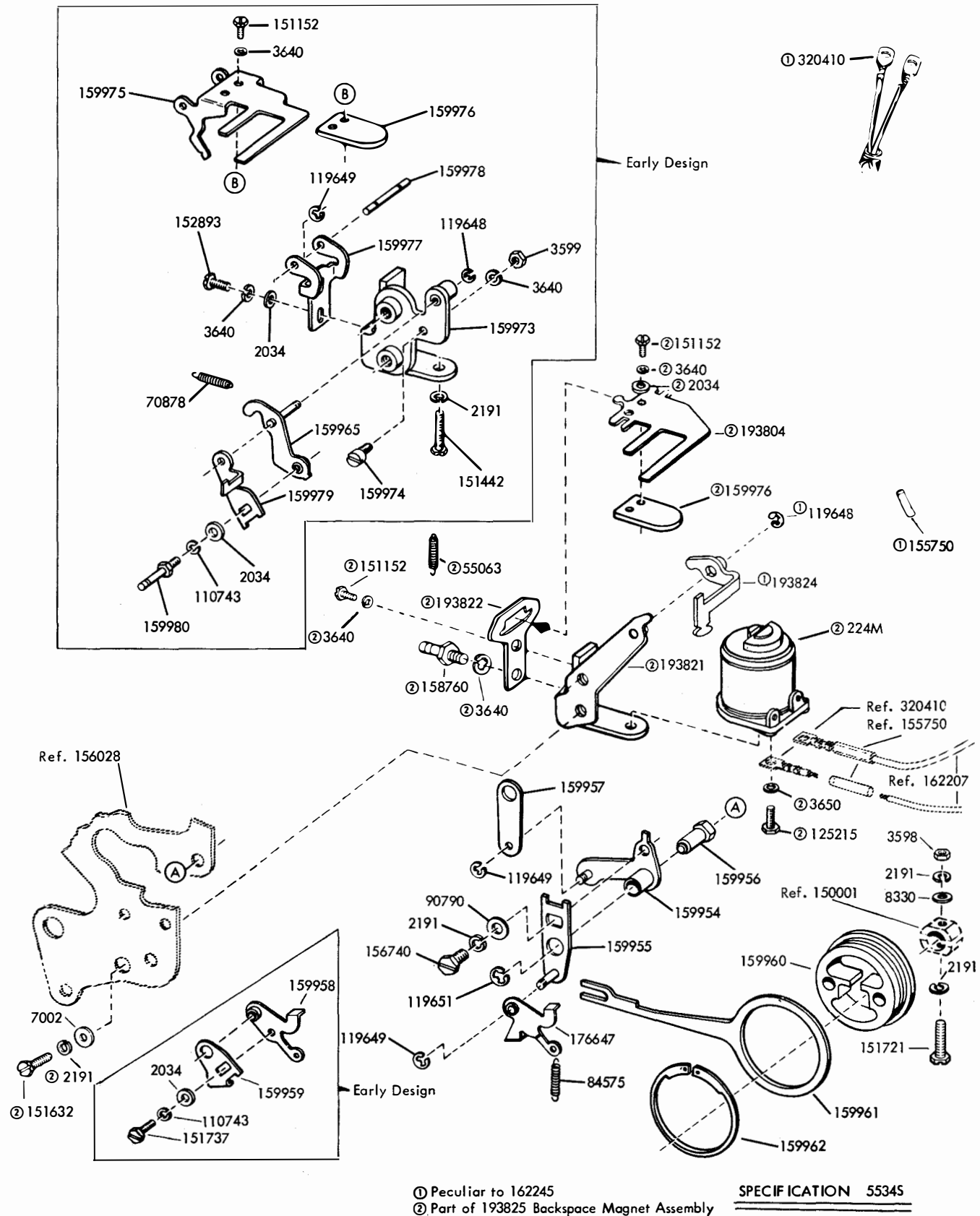
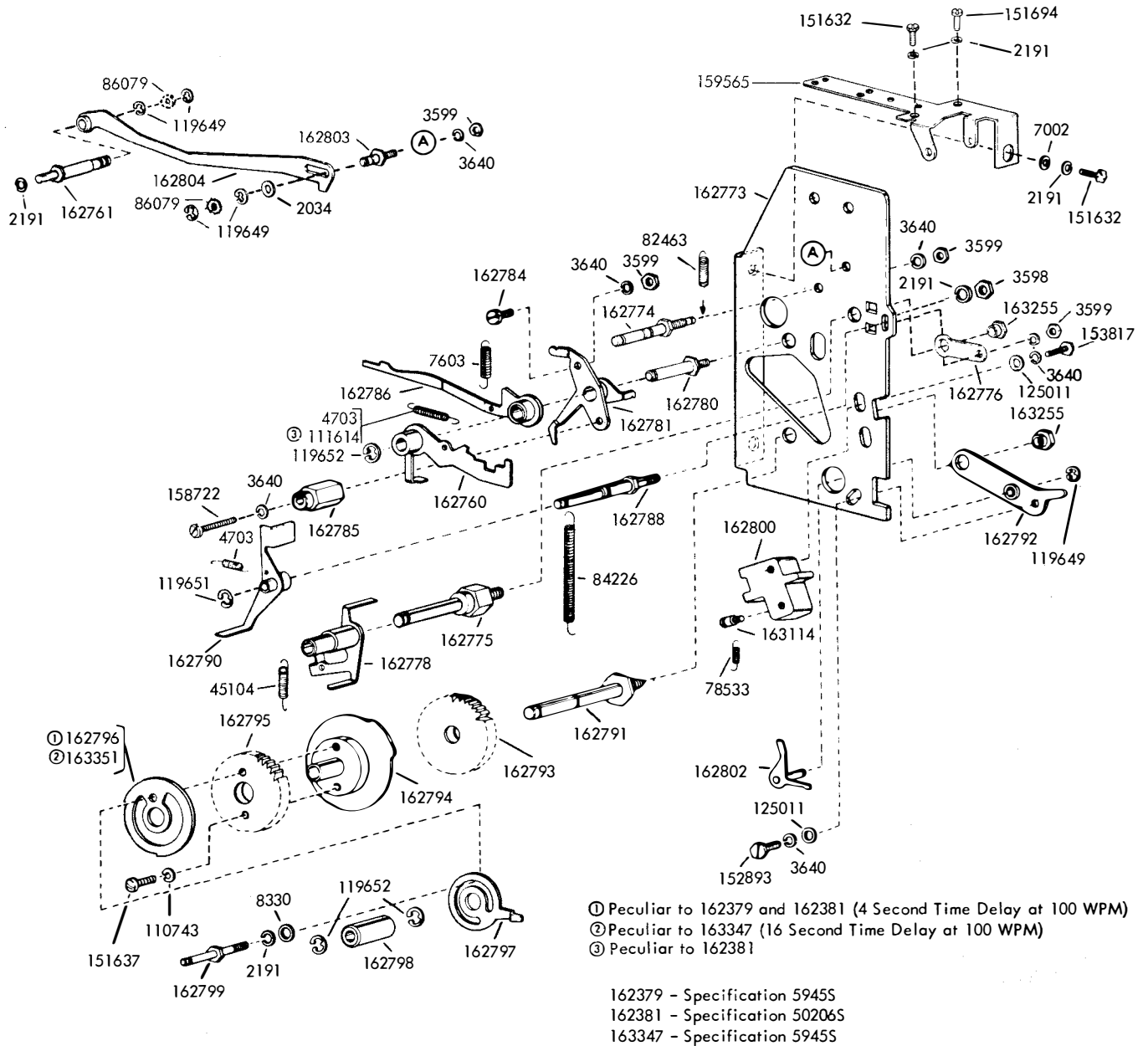


FIGURE 40. 161304 AND 162245 MODIFICATION KITS TO ADD POWER DRIVE TO BACKSPACE MECHANISMS

① Peculiar to 162245
 ② Part of 193825 Backspace Magnet Assembly

SPECIFICATION 55345



- ① Peculiar to 162379 and 162381 (4 Second Time Delay at 100 WPM)
- ② Peculiar to 163347 (16 Second Time Delay at 100 WPM)
- ③ Peculiar to 162381

162379 - Specification 5945S
 162381 - Specification 50206S
 163347 - Specification 5945S

(Also see figures 42, 43)

FIGURE 41. 162379 AND 163347 MODIFICATION KITS TO ADD AUTOMATIC NON-INTERFERING LETTERS TAPE FEED-OUT AND 162381 MODIFICATION KIT FOR AUTOMATIC NON-INTERFERING BLANK TAPE FEED-OUT.

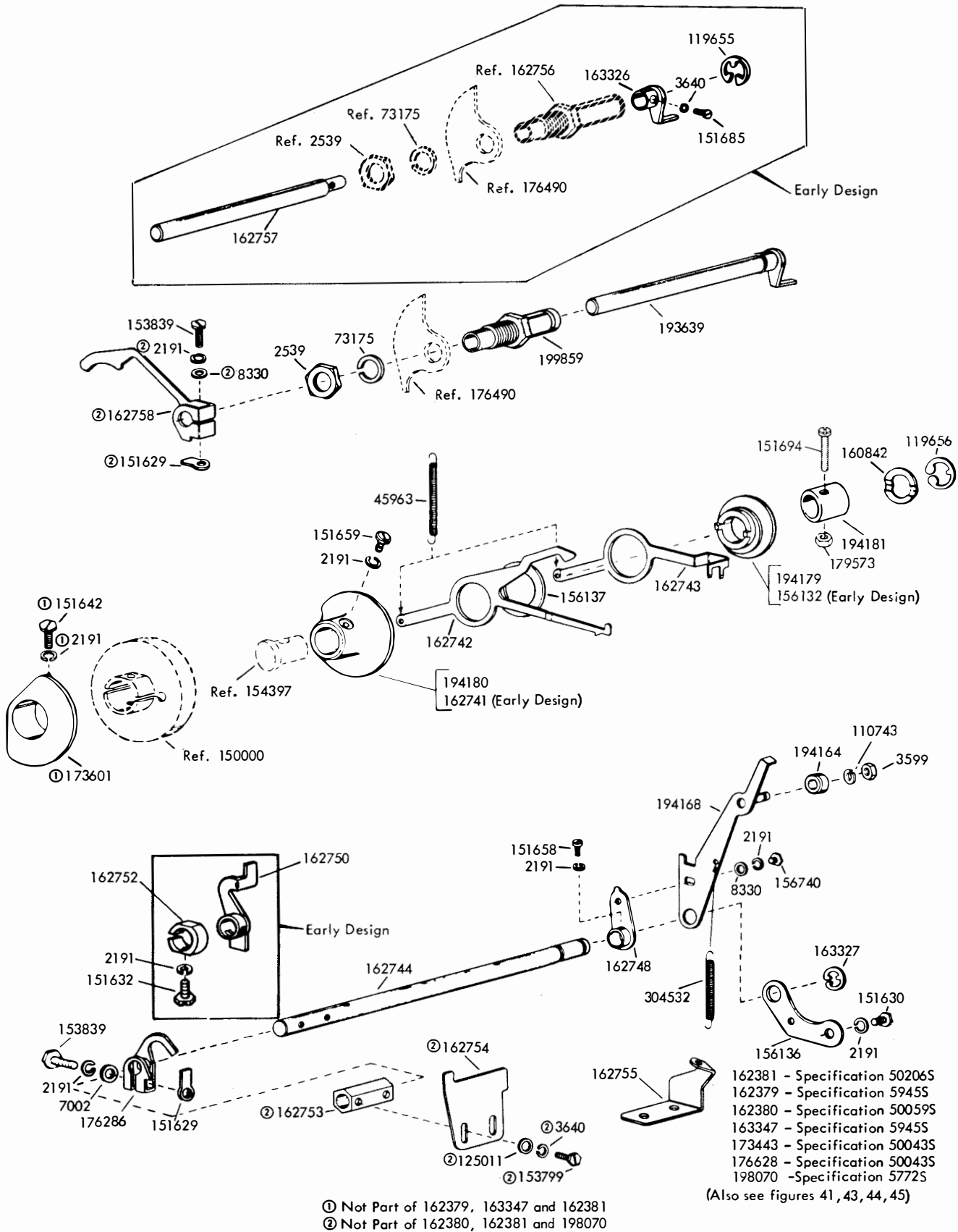
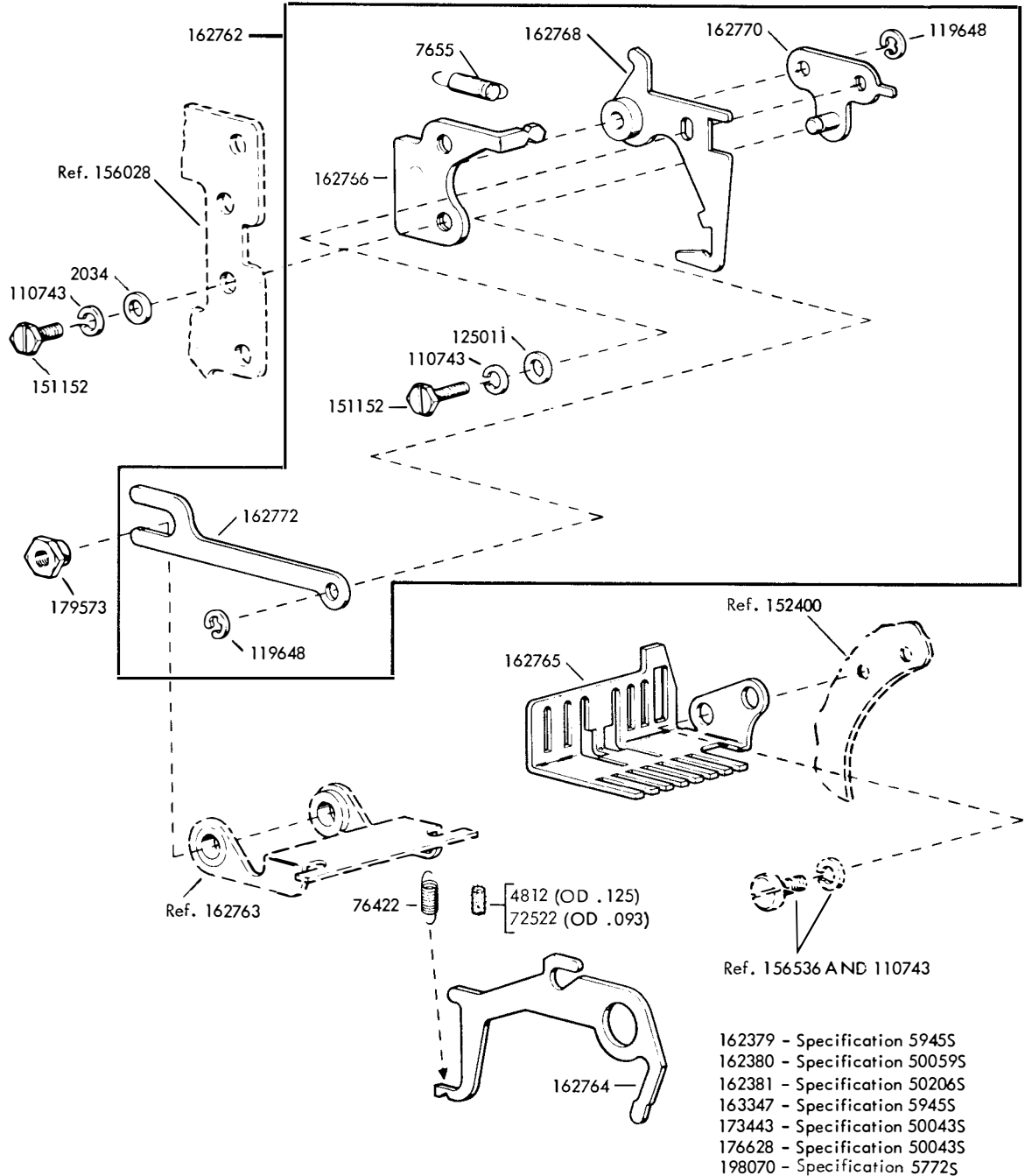


FIGURE 42. 162379 (AUTOMATIC LETTERS), 162380 (REMOTE CONTROL BLANK), 163347 (AUTOMATIC LETTERS), 173443 (REMOTE CONTROL LETTERS), 162381 (AUTOMATIC BLANK), 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED-OUT and 198070 BLANK FEED-OUT TO MODEL 28 REPERFORATOR



(Also see figures 41, 42, 44, 45)

FIGURE 43. 162379 (AUTOMATIC LETTERS), 162380 (REMOTE CONTROL BLANK), 163347 (AUTOMATIC LETTERS), 162381 (AUTOMATIC BLANK), 173443 (REMOTE CONTROL LETTERS), 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED-OUT and 198070 BLANK FEED-OUT TO MODEL 28 REPERFORATOR

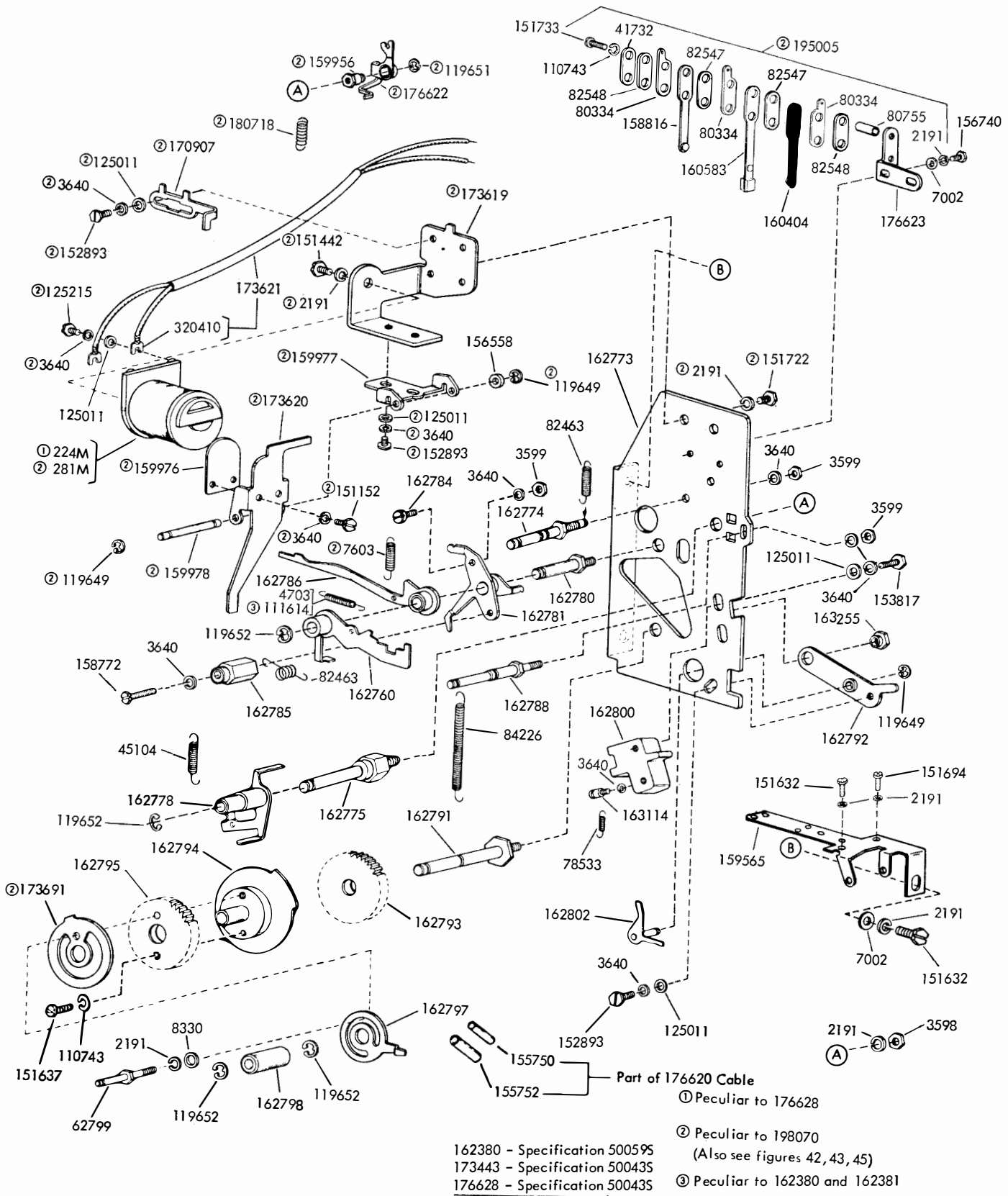
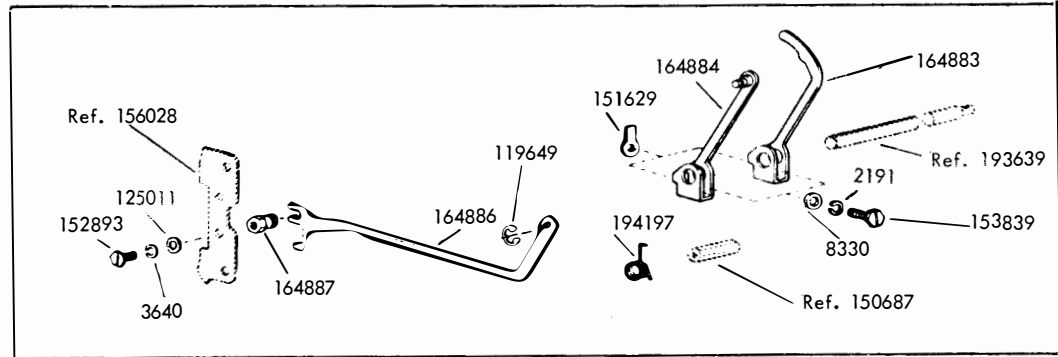
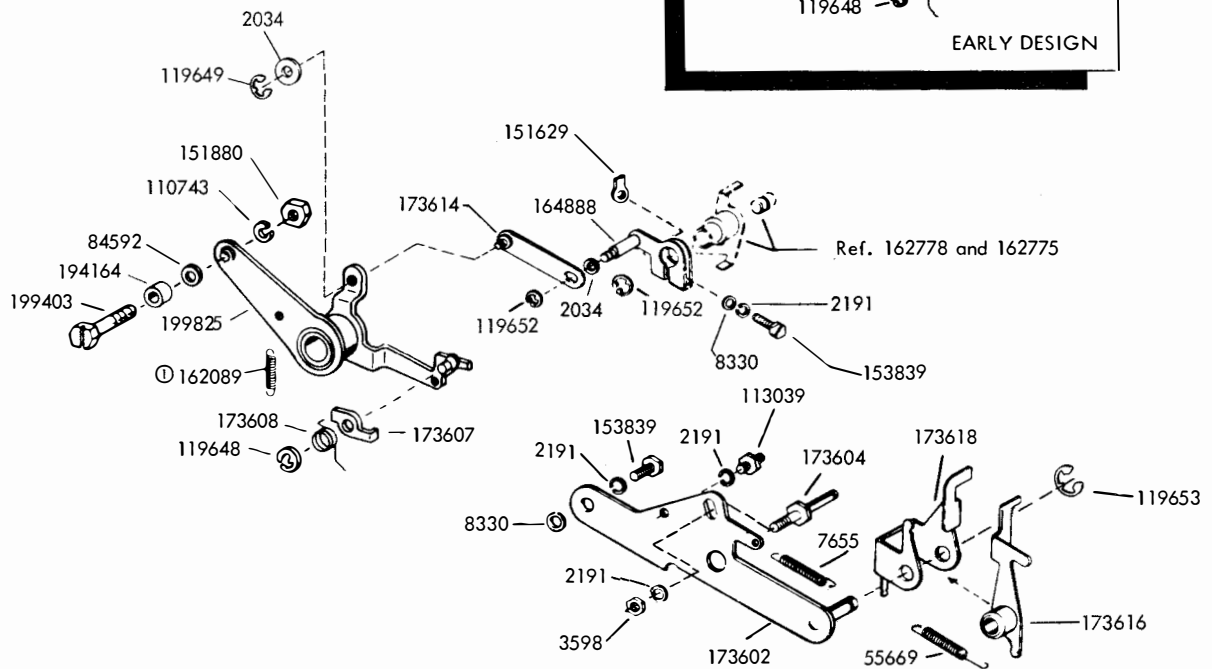
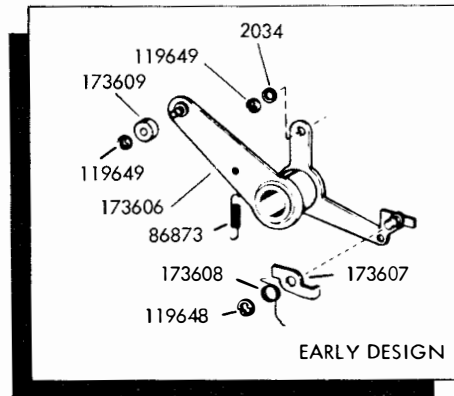


FIGURE 44. 162380 (BLANK), 162381 (AUTOMATIC BLANK), 173443 (LETTERS) AND 176628 (LETTERS), MODIFICATION KITS TO ADD REMOTE CONTROL NON-INTERFERING TAPE FEED-OUT AND 198070 BLANK FEED-OUT TO MODEL 28 REPERFORATOR



Peculiar to 162380, 162381 and 198070
Modification Kits



(Also see figures 42, 43, 44)
162380 - Specification 500595
162381 - Specification 502065
173443 - Specification 500435
176628 - Specification 500435

ⓐ Peculiar to 162380, 173443
and 176628

FIGURE 45. 162380 (BLANK), 162381 (AUTOMATIC BLANK), 173443 (LETTERS), 176628 (LETTERS) MODIFICATION KITS TO ADD REMOTE-CONTROL NON-INTERFERING TAPE FEED-OUT and 198070 BLANK FEED-OUT TO MODEL 28 REPERFORATOR

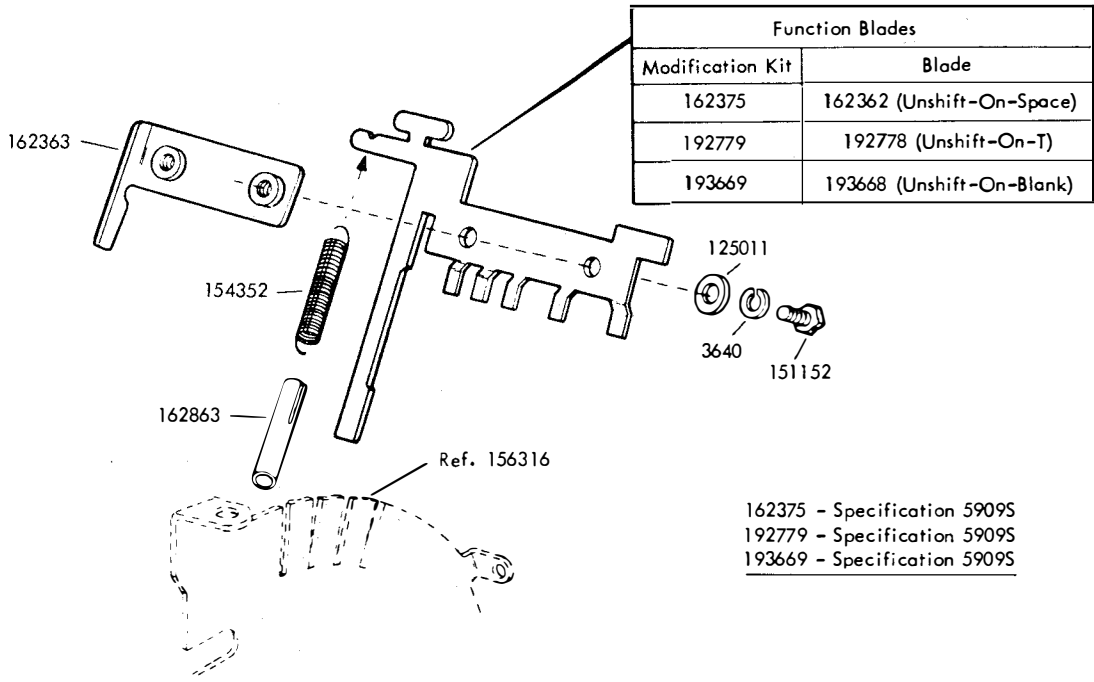
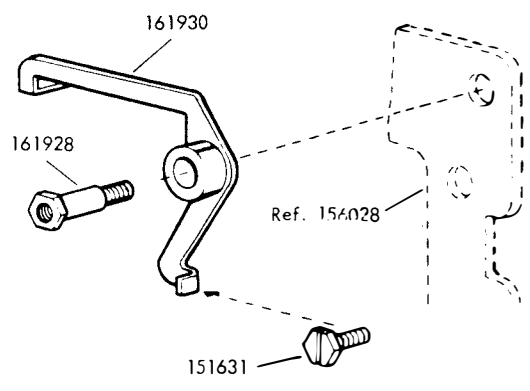
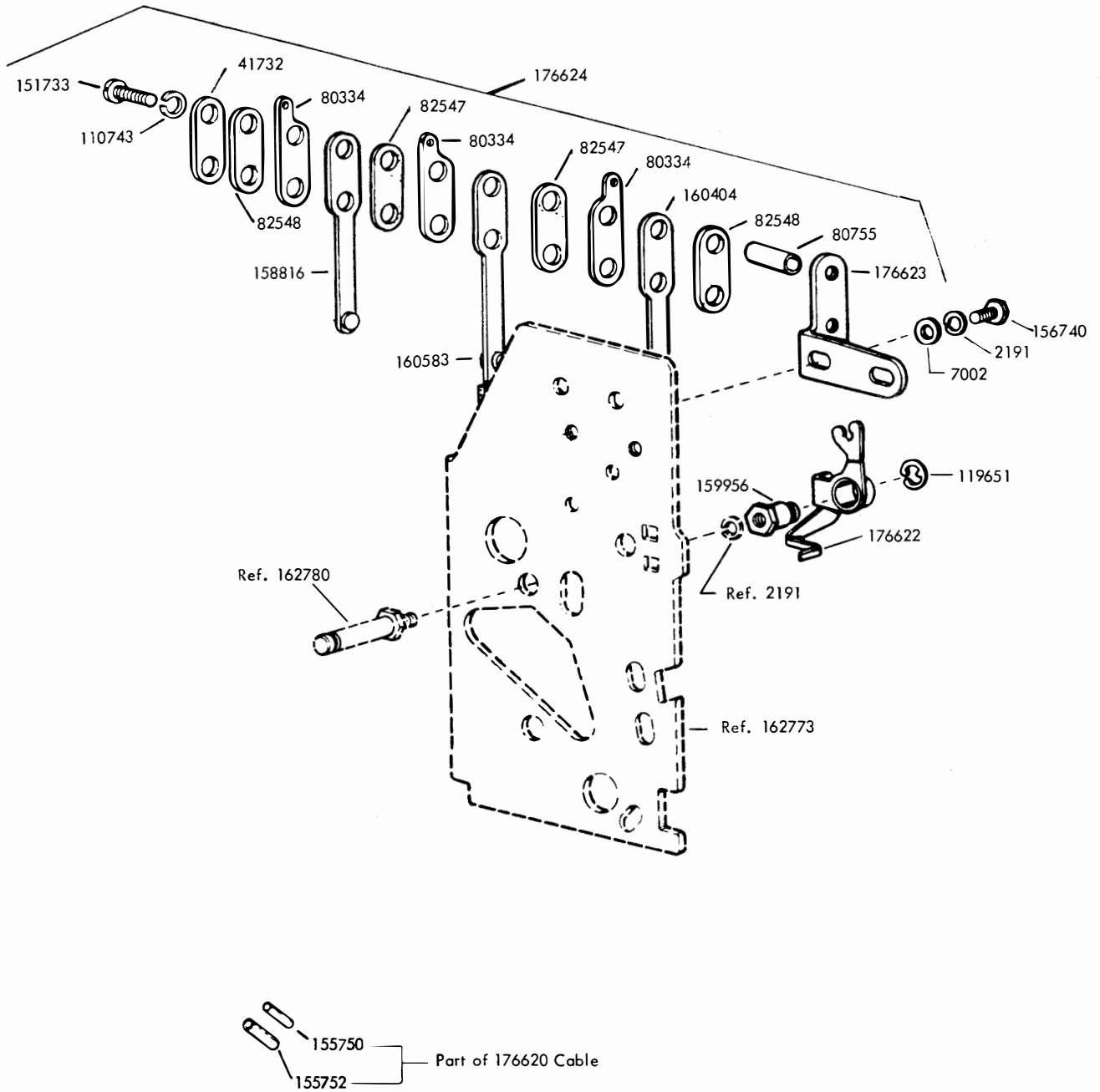


FIGURE 46. MODIFICATION KITS TO PROVIDE UNSHIFT FUNCTION



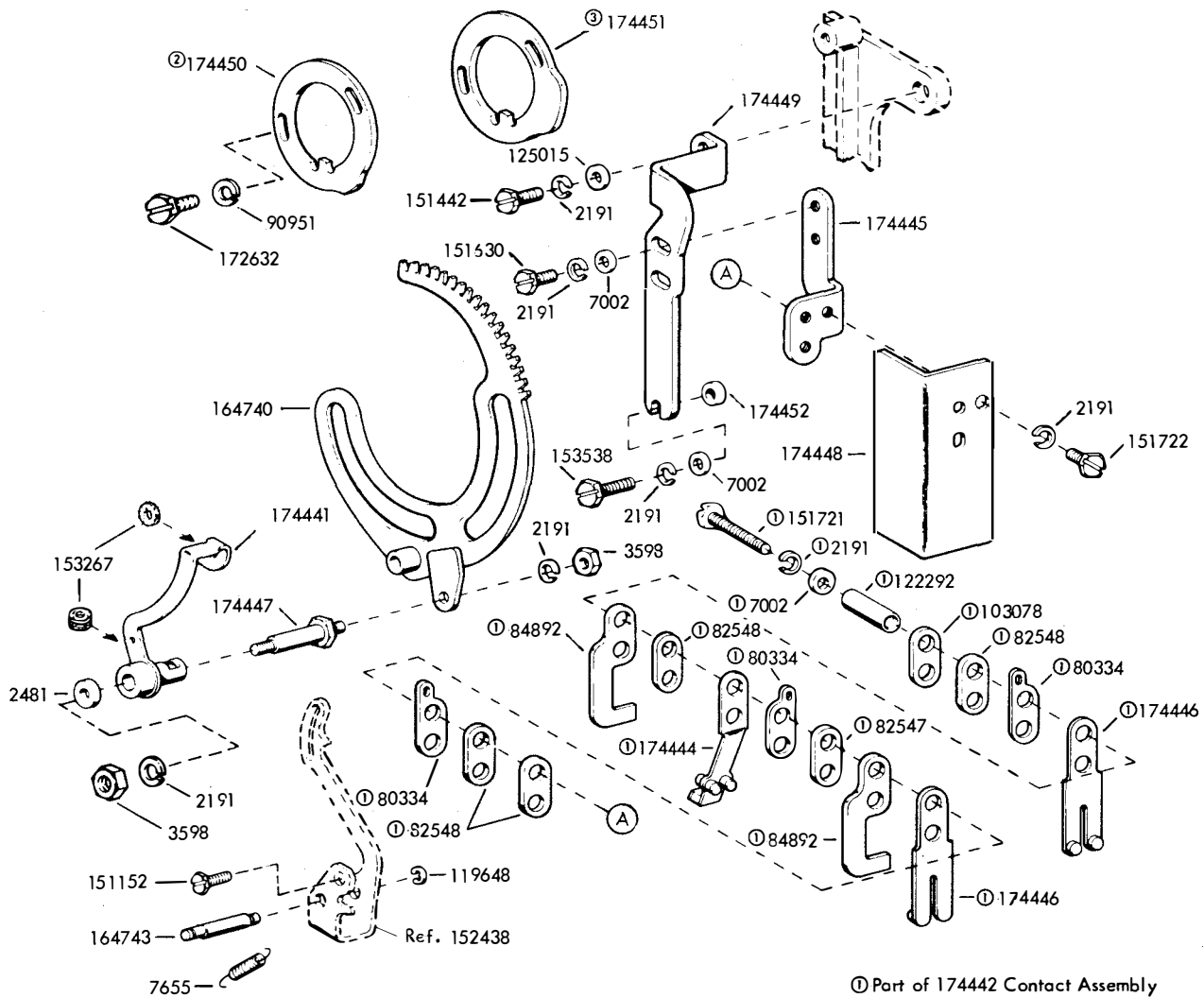
161828 - Specification 5534S

FIGURE 47. 161828 MODIFICATION KIT TO MAKE TAPE BACKSPACE AND BLANK FEED-OUT COMPATIBLE



176621 - Specification 500545

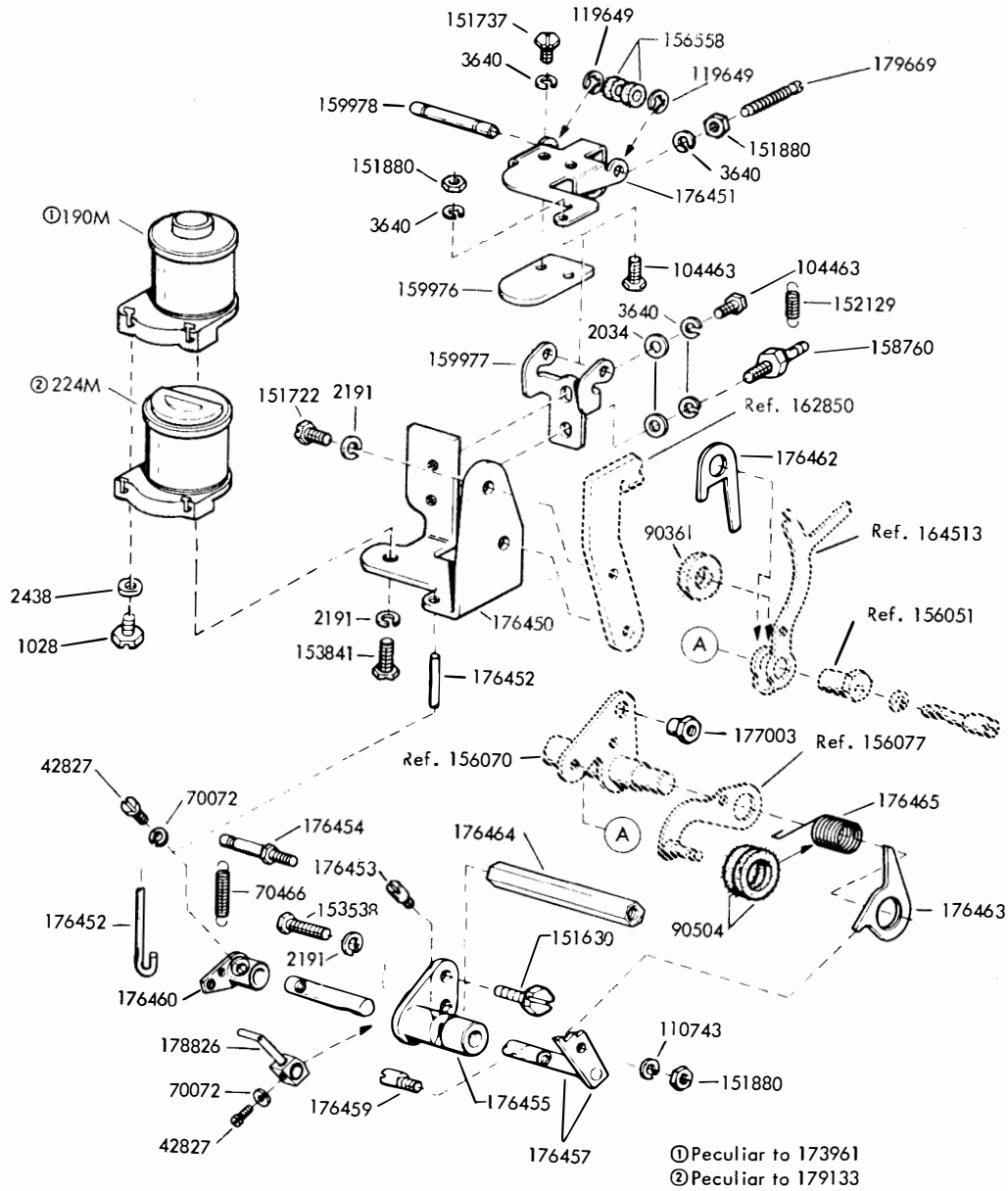
FIGURE 48. 176621 MODIFICATION KIT TO PROVIDE END OF FEED-OUT TIMING CONTACT FOR 176628 LETTERS TAPE FEED-OUT



- ① Part of 174442 Contact Assembly
- ② Peculiar to 176420
- ③ Peculiar to 176421

176420 - Specification 500415
 176421 - Specification 500415

FIGURE 49. 176420 AND 176421 MODIFICATION KITS TO ADD TIMING CONTACTS TO SELECTOR



173961 - Specification 500585
 179133 - Specification 500585

(Also includes parts on Figure 47)

FIGURE 50. 173961 AND 179133 MODIFICATION KITS TO PROVIDE BLANK DELETE FOR TYPING REPERFORATOR

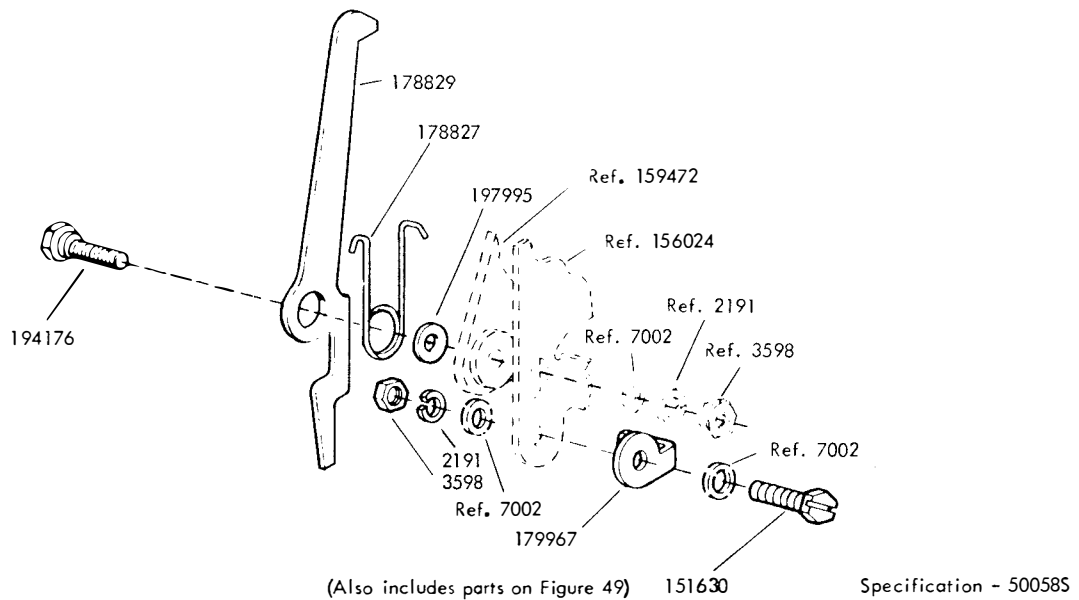
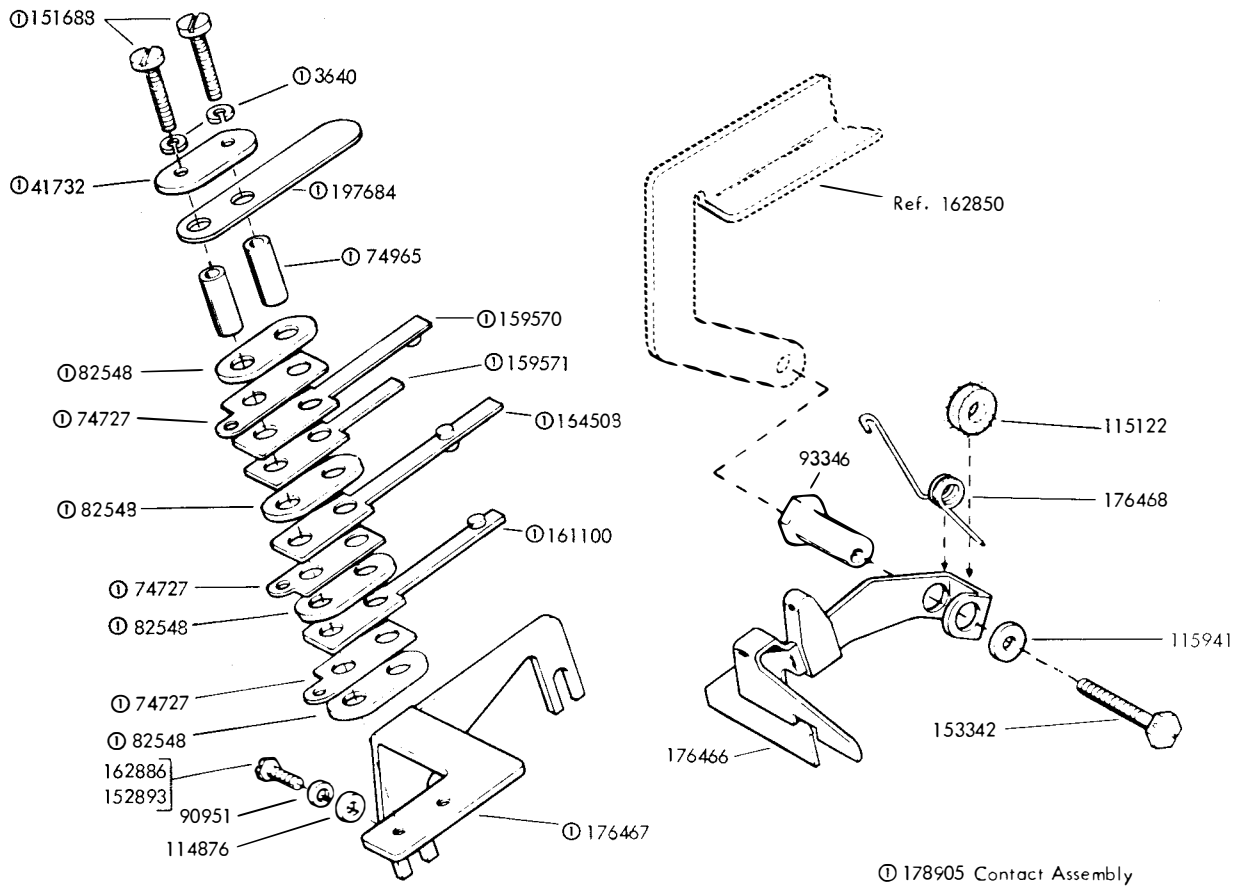


FIGURE 51. 173961 AND 179133 MODIFICATION KITS TO PROVIDE BLANK DELETE FOR TYPING REPERFORATOR (Continued)

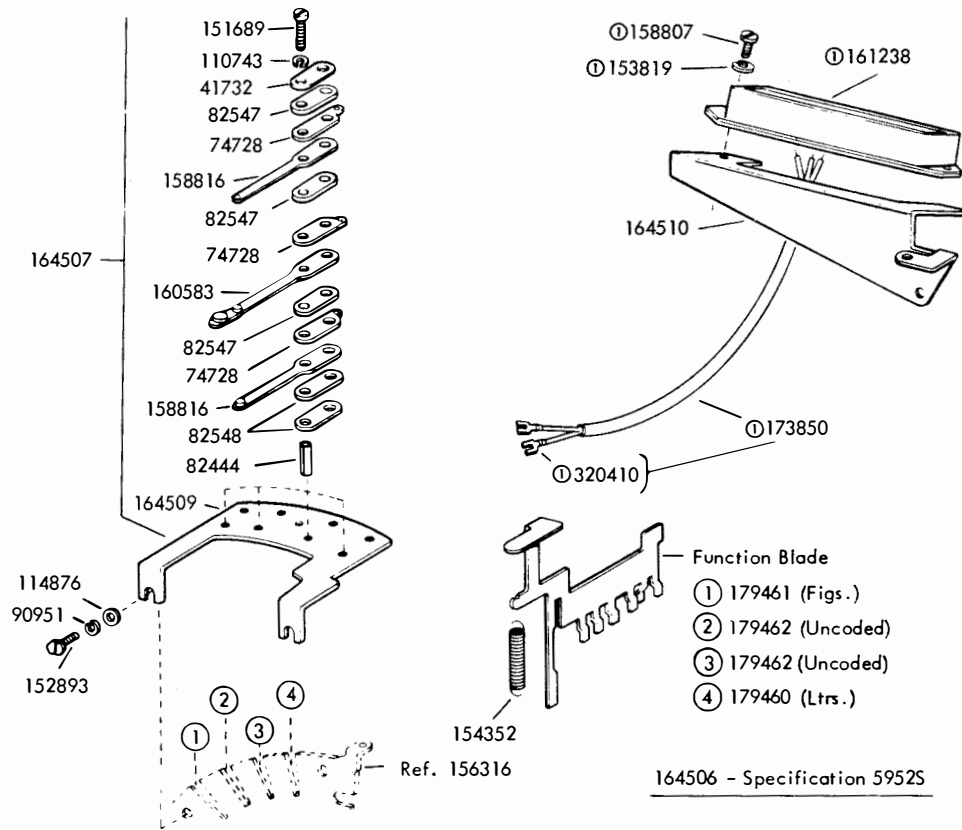


FIGURE 52. 164506 MODIFICATION KIT TO ADD MULTIPLE MOUNTED FUNCTION BLADE OPERATED CONTACTS

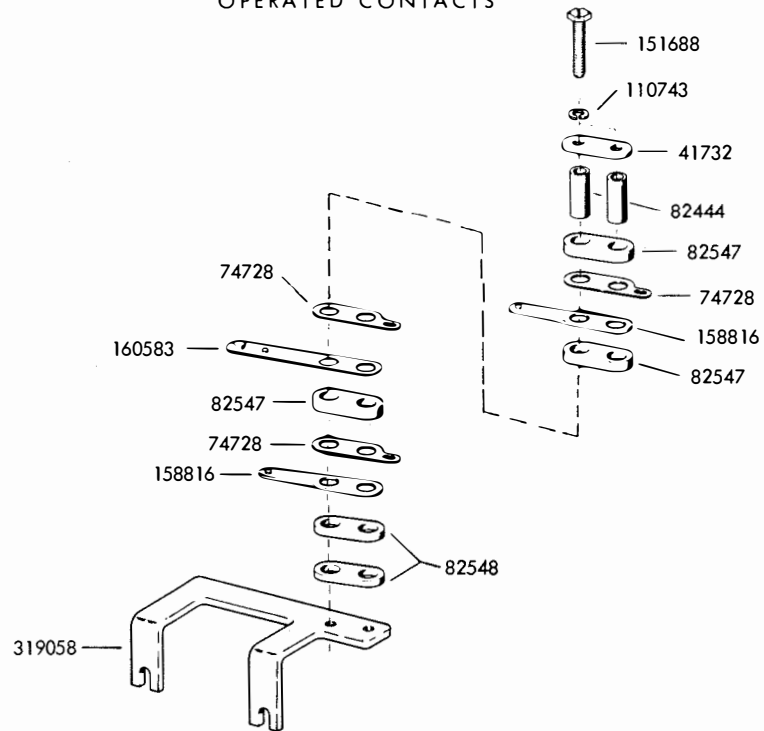


FIGURE 53. 319040 CONTACT ASSEMBLY - FUNCTION BLADE OPERATED

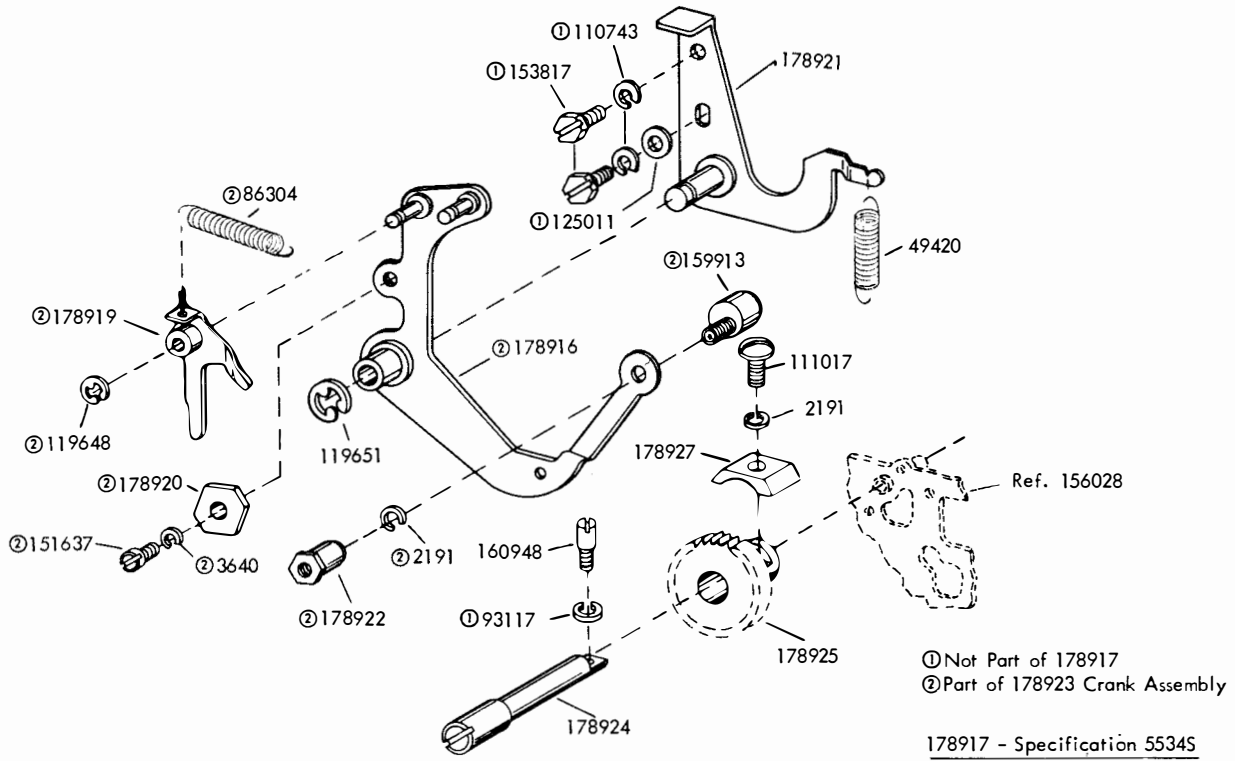


FIGURE 54. 178917 MODIFICATION KIT TO PROVIDE BACKSPACE MECHANISM FOR FULLY PERFORATED TAPE AND PRINTING BETWEEN FEED HOLES

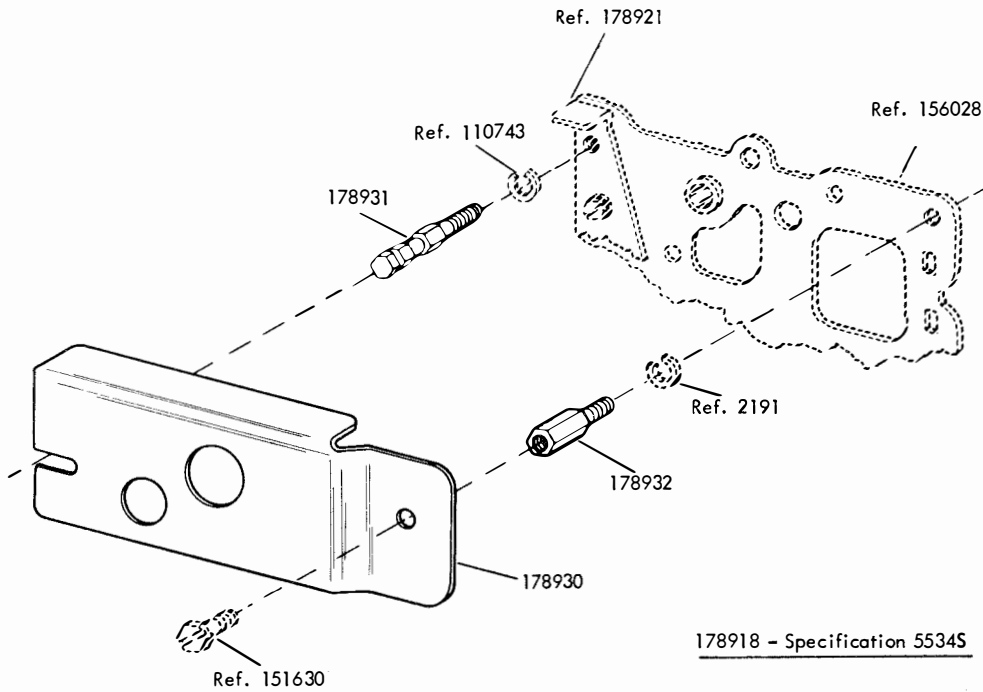


FIGURE 55. 178918 MODIFICATION KIT TO PROVIDE GUARD FOR BACKSPACE MECHANISM (FULLY PERFORATED TAPE, PRINTING BETWEEN FEED HOLES)

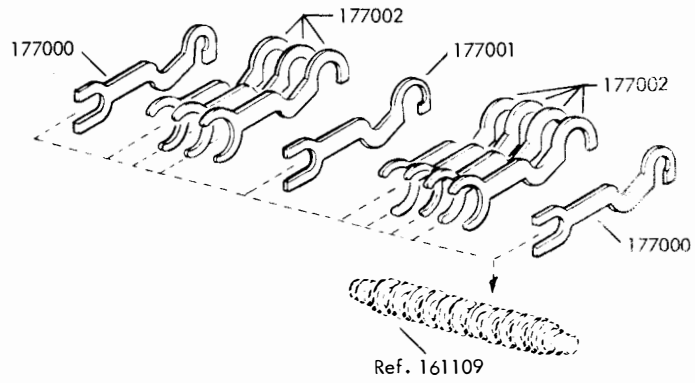
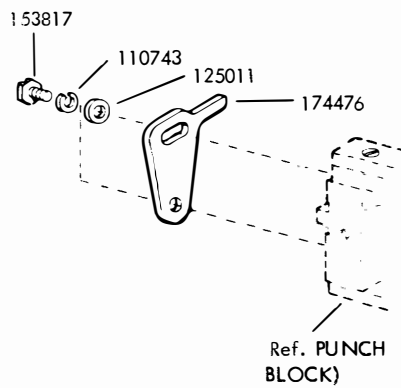


FIGURE 56. 179275 MODIFICATION KIT TO PROVIDE POSITIVE ENGAGEMENT OF PUNCH SLIDES WITH THE LATCH LEVERS



174475 - Specification 500345

FIGURE 57. 174475 MODIFICATION KIT TO PROVIDE PRINT SUPPRESSION ON FUNCTIONS

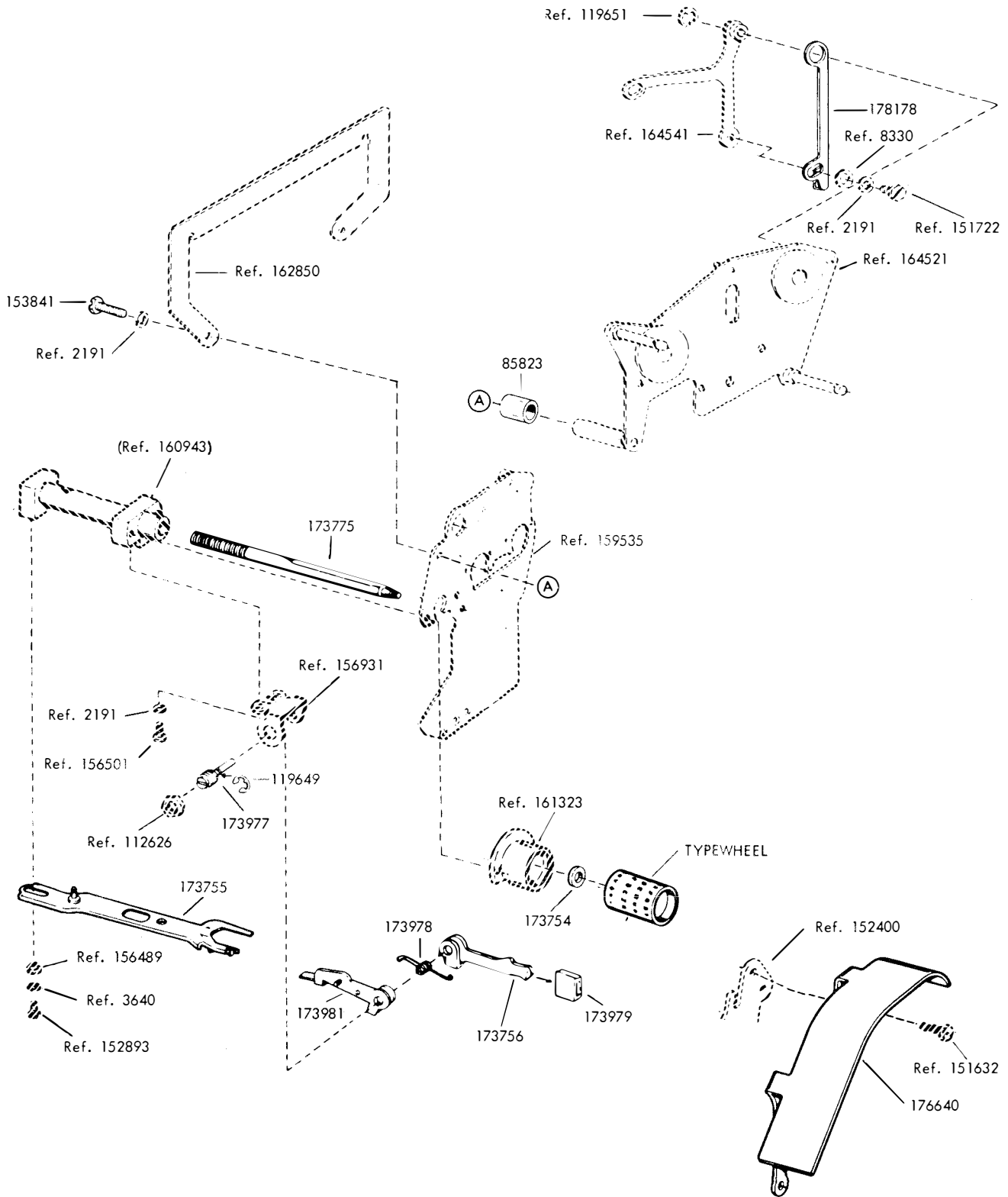


FIGURE 58. 178834 MODIFICATION KIT TO CONVERT RIBBON FEED MECHANISM TO FULLY PERFORATED TAPE

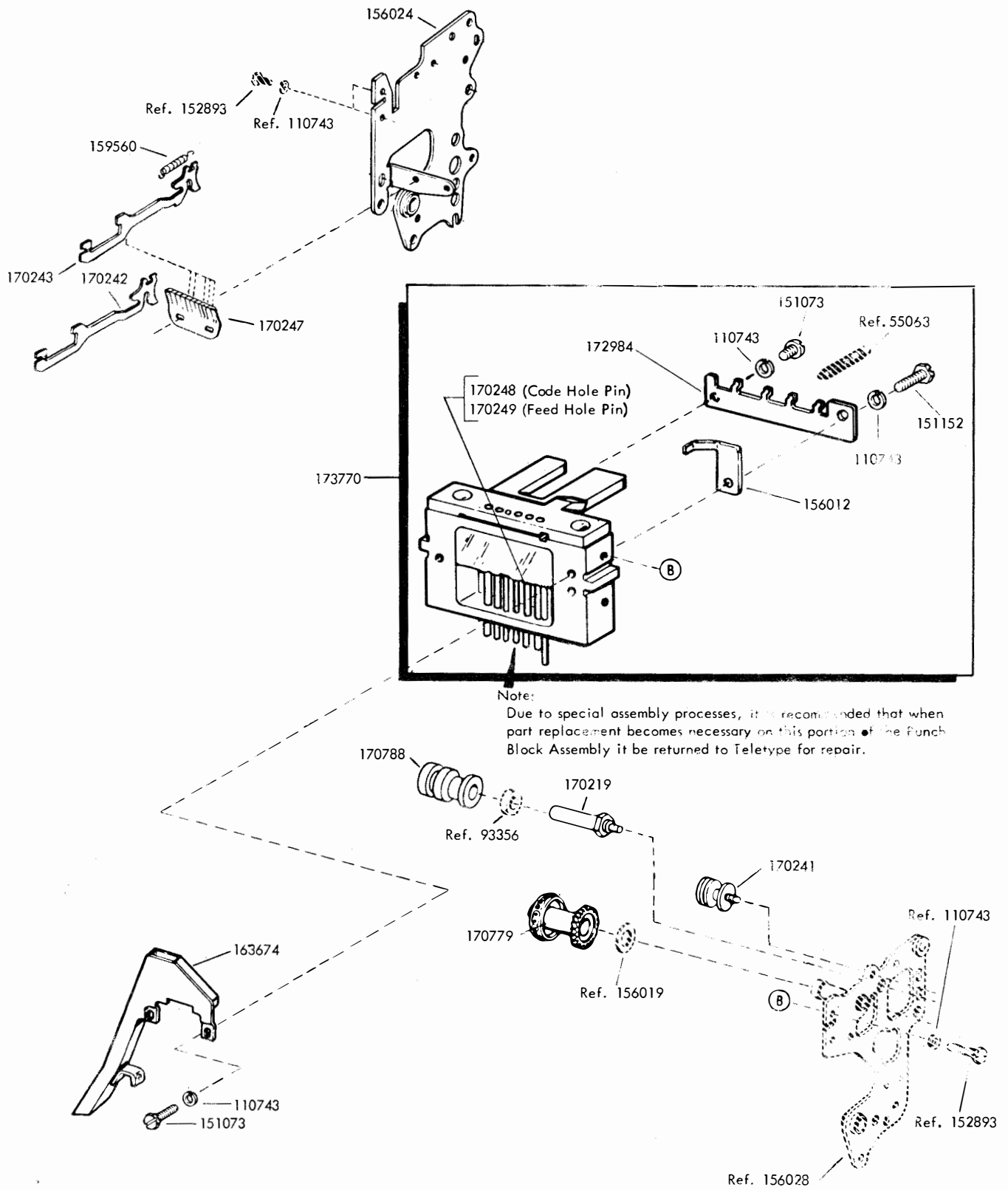
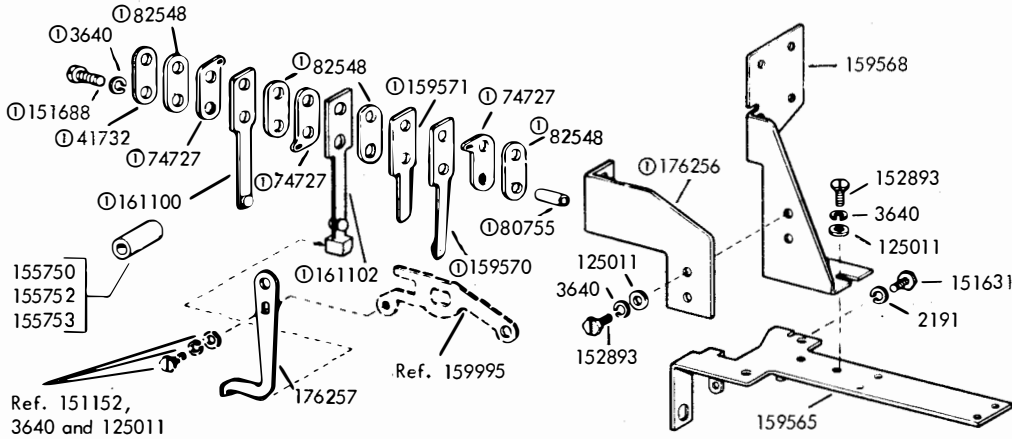
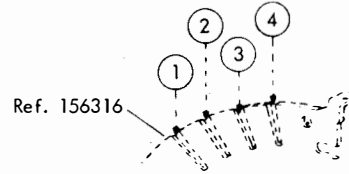
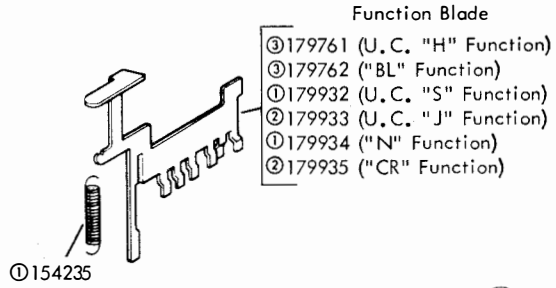
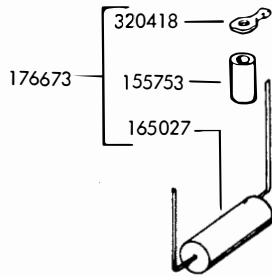


FIGURE 59. 178834 MODIFICATION KIT TO CONVERT RIBBON FEED MECHANISM TO FULLY PERFORATED TAPE (Continued)

FUNCTION BLADES				
Modification Kit	①	②	③	④
176258		179932	179934	
176627	See Note 1	179933	179935	See Note 1
192686		179761	179762	



Note 1:
 Function Blades included in
 164506 Modification Kit
 ① Peculiar to 176258
 ② Peculiar to 176627
 ③ Peculiar to 192686

Specification 501115

FIGURE 60. MODIFICATION KITS TO EQUIP A REPERFORATOR WITH AN AUXILIARY CONTACT ASSEMBLY AND FUNCTION BLADES

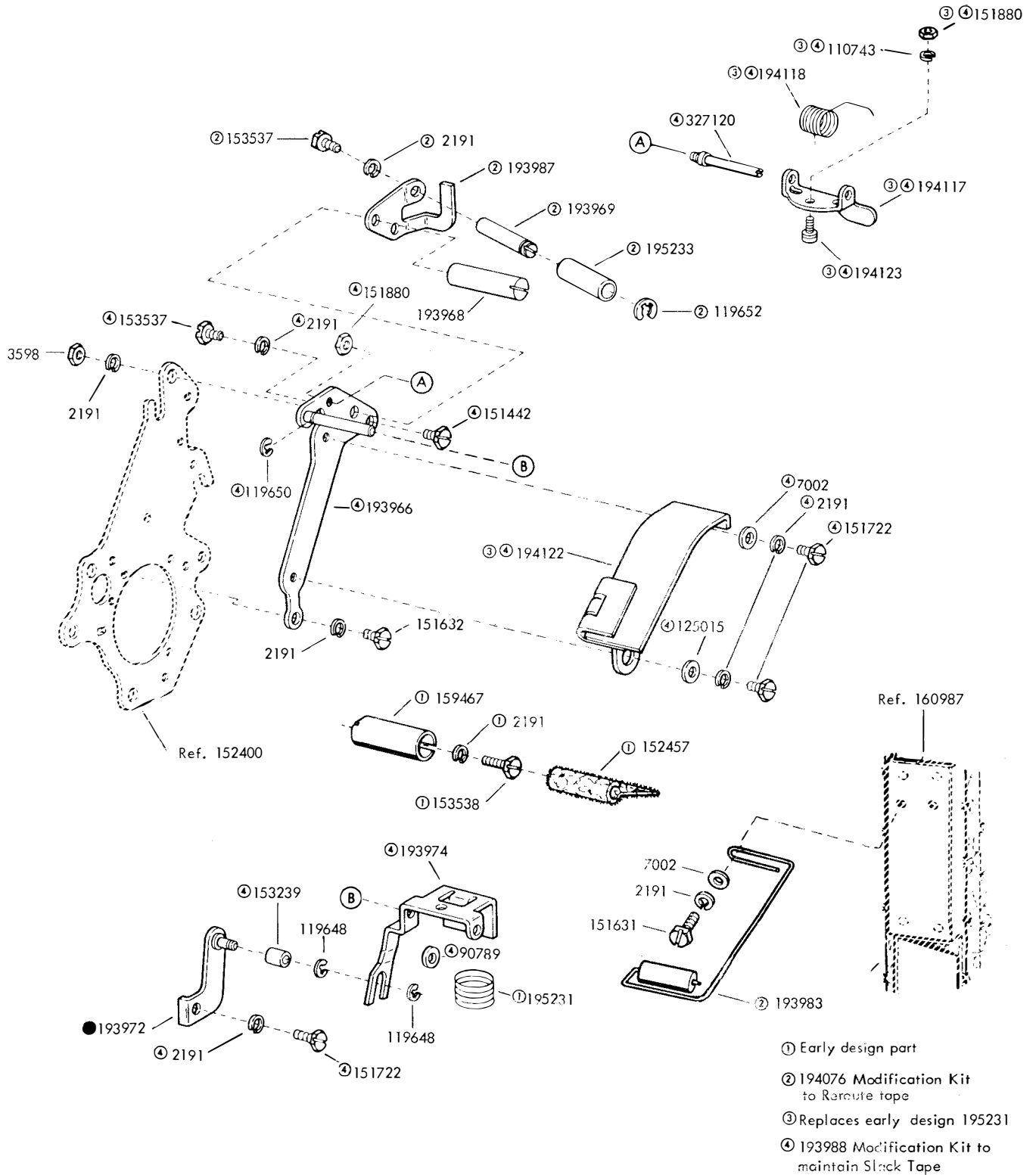
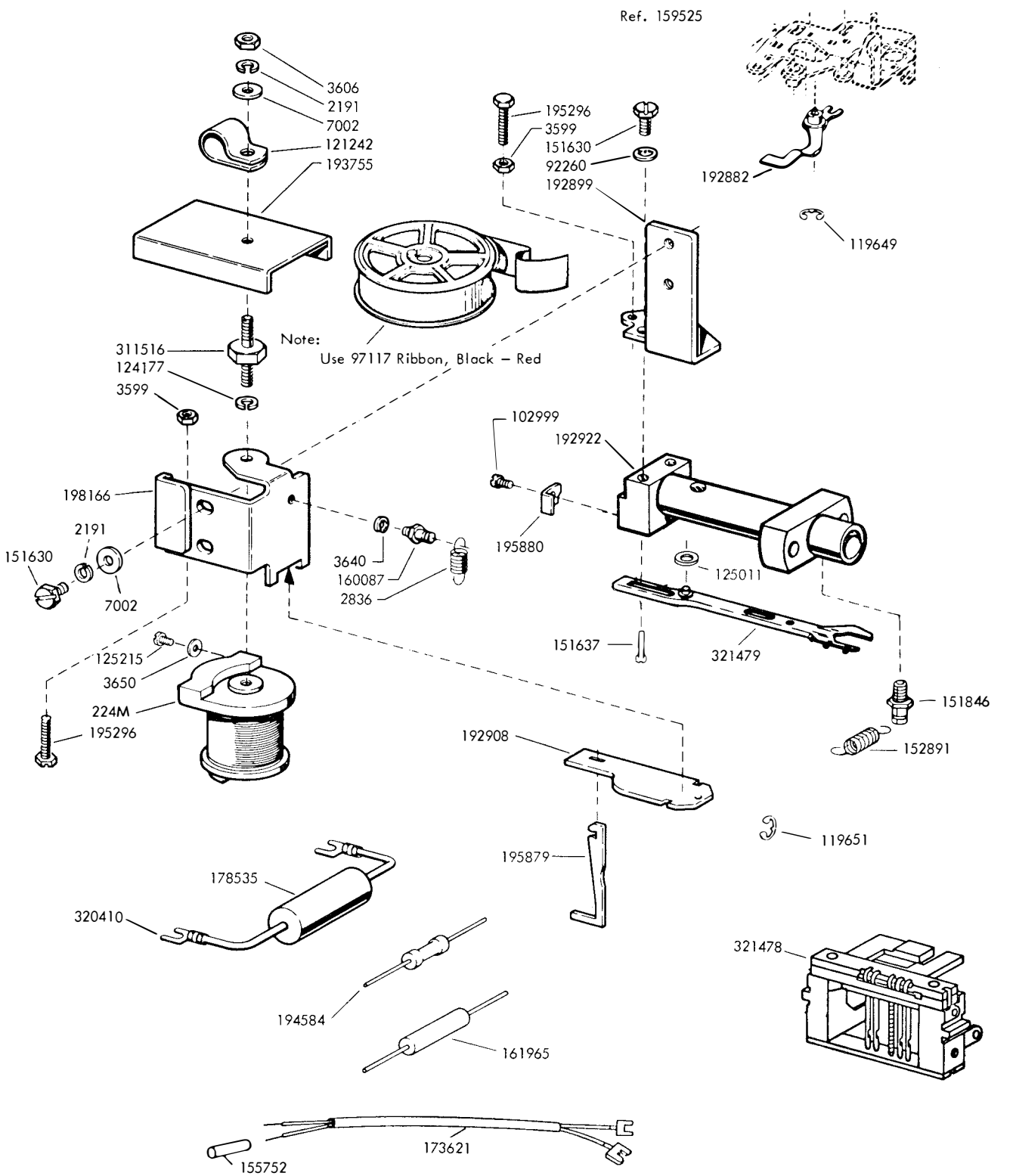


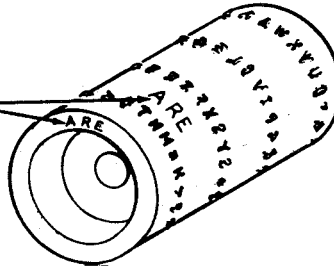
FIGURE 61. MODIFICATION KITS TO MAINTAIN SLACK TAPE AND REROUTE TAPE



Specification - 506015

FIGURE 62. 304273 MODIFICATION KIT TO PROVIDE FOR TWO-COLOR PRINTING

Typewheel Code may be found in either of two locations.



TYPEWHEEL ARRANGEMENT							
CODE	PART NUMBER	CODE	PART NUMBER	CODE	PART NUMBER	CODE	PART NUMBER
ARA	173965	ARE	173970	AXW	175519	AED	175655
AWA	173967	ARC	173971	AZG	175554	BRB	175701

FIGURE 63. TYPEWHEELS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
190M	Coil, Magnet 47	7603	Spring 39,42	80833	Guard, Contact Spring 35
224M	Coil, Magnet 38,42,47,56	7655	Spring 25,40,43,46	81726	Terminal 25,35
252M	Coil, Magnet 32	7835	Ribbon w/Spool, Black 23	81731	Spring 23
254M	Coil, Magnet 16	8330	Washer, Flat 3,4,6,7,8,12, 14,15,18,19,20,23,30,35, 38,39,40,42,43,52	81778	Screw, 4-40 x 3/16 Fil 16
281M	Coil, Magnet 42			82249	Washer, Flat 33
1020	Screw, 6-40 x 1/4 Hex 6			82392	Shim, 0.004" Thk 4
1028	Screw, 4-40 x 1/4 Fil 47	22746	Spring 10,20,30	82444	Bushing, Insulating 49
1036	Nut, 6-40 Hex 7	31636	Spring 31	82463	Spring 24,30,39,42
1210	Screw, 2-56 x 5/8 Fil 29	33765	Washer, Flat 37	82547	Insulator, 0.094 In Thk 24, 25,32,35,42,45,46,49
1256	Setscrew, 6-40 20,30	41543	Bearing, Ball 21	82548	Insulator, 0.062" Thk 24,25,32,34,35,42,45,46, 48,49,54
2034	Washer, Flat 15,38,39, 41,43,47	41732	Plate, Clamp 24,25,32,34, 35,42,45,48,49,54		
2191	Lockwasher 3 to 11, 21, 23,24,25,28,30 to 40,42, 43,45 to 48,50,52,54,55, 56	42823	Washer, Flat 3,5,31	84226	Spring 23,39,42
2199	Nut, 7/16-32 Hex 10	42827	Screw, 3-48 x 1/4 Fil 47	84575	Spring 38
2407	Lockwasher 10	45024	Spring 36	84592	Shim, 0.004" Thk 43
2415	Spring 33	45104	Spring 39,42	84892	Stiffener 46
2438	Washer, Flat 16,47	45963	Spring 31,40	85823	Spacer, 0.188" Thk 18, 23,52
2481	Washer, Flat 34,46	47024	Washer, Flat 11	86079	Washer, Felt 11,39
2539	Nut, 3/8-32 Hex 20,30,40	49084	Spring 3,34	86283	Spring 18
2669	Lockwasher 4,14	49420	Spring, Torsion 50	86304	Spring 37,50
2836	Spring 56	55005	Washer, Flat 33	86506	Post, Spring 3
3598	Nut, 6-40 Hex 3,4,6,7,8, 10,11,14,15,18,19,21,25, 31,32,33,36,38,39,42,43, 46,48,55	55063	Spring 22,37,38	86714	Washer, Flat 23
3599	Nut 4-40 Hex 3,6,7,9,11, 12,15,16,17,20,24,30,38, 39,40,42,56	55090	Spring 37,53	86774	Screw, 6-40 Shoulder 11, 36
3603	Nut, 1/4-32 Hex 21	55669	Spring 31	86873	Spring 43
3606	Nut, 6-40 Hex 4,19,33,56	70072	Spring 43	87401	Spring 3
3624	Washer, Flat 32	70466	Lockwasher 47	90052	Screw, 4-40 x 5/8 Hex 17
3640	Lockwasher 3,4,5,9,10,11, 13,19,20,25,29 to 34,38, 39,40,42,43,44,47,48,50, 52,54,56	70878	Spring 47	90361	Washer, Felt 8,47
3646	Lockwasher 36	71073	Spring 38	90504	Washer, Felt 33,47
3650	Washer, Flat 38,56	71681	Washer, Flat 33	90517	Spring 20
3870	Spring 19	72522	Wick, Felt 7,33,41	90535	Washer, Felt 13
4703	Spring 39,42	73175	Lockwasher 20,30,40	90560	Washer, Flat 37
4812	Wick, Felt 41	73611	Wick, Felt 34	90573	Spring 4
5363	Spring, Compression 7	74283	Washer, Spring 14	90599	Shim 0.008" Thk 11
5425	Shim, 0.010" Thk 31	74553	Wick, Felt 10	90606	Spring 3,18
6801	Screw, 4-40 Pilot 24	74674	Nut, 6-40 Spl 33	90615	Spring 19
7002	Washer, Flat 3,4,6,7,9, 10,11,13,15,17,19,25,31, 32,33,34,36,38,39,40,42, 45,46,48,55,56	74727	Terminal, Contact 34,48,54	90789	Washer, Flat 15,55
		74728	Terminal, Contact 32,49	90790	Washer, Flat 38
		74952	Screw, 4-40 x 5/8 Fil 24	90791	Lockwasher 7
		74965	Bushing, Insulating 48	90951	Lockwasher 13,24,35,46, 48,49
		76246	Bushing, Insulating 24	91120	Spring 7
		76422	Spring 41	92260	Lockwasher 19,56
		78533	Spring 15,39,42	93108	Lockwasher 21
		78824	Spring 24	93117	Lockwasher 29,50
		80283	Screw, 4-40 Shoulder 33	93118	Lockwasher 32,33
		80334	Terminal, Contact 42,45,46	93346	Bushing, Eccentric 48
		80531	Washer, Flat 23	93356	Washer, Felt 3,7,53
		80755	Bushing, Insulating 25,32, 34,42,45,54		

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
94669	Screw, 4-40 Shoulder 7	119648	Ring, Retaining 4,7,14,22, 29,37,38,41,43,46,50,55	144794	Spring, Torsion 7
94693	Wick, Felt 33			144795	Plate, Rear 6
94712	Washer, Flat 10	119649	Ring, Retaining 7,10,11, 13,18,23,31,32,33,34,38, 39,42,43,47,52,56	144796	Plate, Front 7
96717	Screw, 4-40 Shoulder 4, 15,25			144797	Shaft, Feed Wheel
97117	Ribbon w/Spool, Red-Black 56	119650	Ring, Retaining 8,18,19, 23,55	144998	Post 7
97266	Plate, Clamp 25,35			144999	Shoe, Tape 7
97516	Bushing 23	119651	Ring, Retaining 3,10,12, 13,19,23,24,31,32,37,38, 39,42,45,50,52,56	145353	Wheel, Pressure 7
98004	Screw, 2-56 x 11/16 Hex 32	119652	Ring, Retaining 3,7,8,14, 31,39,42,43,55	145356	Wheel, Feed 7
100994	Nut, 2-56 Hex 32			145357	Guide, Tape 7
101123	Washer, Felt 11	119653	Ring, Retaining 10,18,23, 31	145358	Bracket, Tape Guide 6
101626	Eccentric 33			148630	Modification Kit 1,33
102028	Post, Spring 31	119655	Ring, Retaining 40	148648	Bracket 33
102999	Screw, 2-56 x 5/32 Fil 56	119656	Ring, Retaining 20,30,40	148649	Post 33
103078	Plate 46	121100	Spring 13	148650	Bracket 33
104463	Screw, 4-40 x 1/4 Hex 47	121125	Washer, Spring 32	148651	Actuator, Switch Lever 33
104807	Washer, Flat 33	121242	Clamp, 118 ID Cable 15,56	148652	Bushing, Shoulder 33
104824	Spring 16,37	121243	Clamp, 3/16 ID Cable 15,26	148653	Lever 33
108943	Bushing 35	121244	Clamp, 1/4 ID Cable 35	148654	Pin, Sensing 33
109356	Washer, Flat 25	121245	Clamp, 5/16 ID Cable 15, 26	148655	Spacer 33
110434	Screw, 4-40 x 3/16 Fil 3, 14,15	121246	Clamp, 3/8 ID Cable 15,26	148656	Bail, Actuator 33
110435	Nut, 4-40 Hex 25	121551	Screw, 8-32 x 1/4 Hex 36	148658	Block, Guide 33
110437	Spring 13,33	122149	Screw, 4-40 Spl 37	148659	Spacer 33
110743	Lockwasher 3,5 to 18, 20 to 24,29,31 to 35,37 to 43,45,47,49,50,51,53,55	122292	Bushing, Insulating 46	148660	Plate 33
110879	Spring 9,12,19	124177	Lockwasher, 4,6,14,15,19, 26,56	150000	Drum, Clutch 5,40
111017	Screw, 6-40 x 5/16 Fil 19,50	125011	Washer, Flat 3,6,9,11,12, 13,14,18,19,20,22,31 to 34, 37,39 to 44,50,51,54,56	150001	Drum, Clutch 3,38
111410	Washer, Flat 3			150013	Disc, Adjusting 3,5
111614	Spring 39,42	125015	Washer, Flat 4,8,9,16,19, 46,55	150026	Lever, Shoe Release 5
111767	Washer, Flat 31			150029	Wick, Felt 3,5
111777	Connector, 4 Pt Recep- tacle 27	125215	Screw, 4-40 x 3/16 Hex 38, 42,56	150040	Screw, 6-40 x 5/8 Fil 5
112475	Screw, 6-40 Eccentric 33			150043	Shoe, Secondary Clutch 3, 5
112509	Insulator, 0.031" Thk 24	125231	Nut, 10-32 Hex 4	150044	Shoe, Primary Clutch 3,5
112626	Nut, 10-32 Hex 10,14,52	125268	Spring 20,30,32	150048	Spring 3,15
112627	Nut, 2-56 Hex 29,33	125802	Washer, Flat 20,23,30	150089	Screw, 4-40 x 1/2 Fil 16
112631	Spring 3	128357	Ring, Retaining 8,13	150241	Spring 3,5
112634	Spring 13	130330	Washer, Felt 11	150327	Roller, Ribbon 18.23
112636	Spring, Feed Pawl 31	130696	Washer, Felt 12	150355	Latchlever 3
113039	Post, Spring 43	131016	Washer, Felt 11	150356	Lever, Trip 3,21
114876	Washer, Flat 13,35,48,49	135716	Spring 3	150411	Washer, Flat 3
115122	Washer, Felt 10,48	135901	Washer, Cup 10	150507	Spring 18,31
115134	Washer, Felt 11,33	138034	Plate, Clamp 29	150687	Stud 14,15,43
115941	Washer, Flat 21,48	139697	Screw, 4-40 x 9/32 Fil 2	150923	Washer, Felt 8
119467	Insulator, 0.032" Thk 32	139752	Screw, 4-40 x 11/64 Fil 3	150990	Washer, Felt 9
119647	Ring, Retaining 7,31	144797	Shaft, Feed Wheel 7	151073	Screw, 4-40 x 5/32 Fil 3, 8,22,34,37,53
		144793	Shaft, Eccentric 7	151080	Washer, Flat 33
				151103	Spring 15
				151152	Screw, 4-40 x 3/16 Hex 3, 11,13,17,19,22,29,31,32, 34,38,41,42,44,46,53,54

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
151222	Washer, Felt 8	151700	Screw, 6-40 Shoulder 12	152441	Washer, Flat 14
151234	Ratchet, 27T 24	151701	Spring, Torsion 15	152457	Wick, Felt 15,55
151235	Ratchet, 28T 24	151714	Spring 15	152458	Shield, Terminal 16
151236	Hub 24	151715	Spring 16	152634	Washer, Flat 8
151237	Spring, Flat 24	151721	Screw, 6-40 x 3/4 Hex 38, 46	152887	Screw, 4-40 x 7/16 Hex 17
151240	Pawl, Latch 24	151722	Screw, 6-40 x 3/16 Hex 6, 23,36,42,46,47,52,55	152893	Screw, 4-40 x 1/4 Hex 3, 4,6,7,8,10,13,15,20,22, 29,30,32,33,34,35,38,39, 42,43,48,49,52,53,54,
151241	Lever, Latching 24	151728	Spring 3,5	152891	Spring 15,33,56
151246	Washer, Flat 4	151731	Screw, 4-40 x 7/8 Fil 25	153184	Post 16
151336	Oiler 15,21	151733	Screw, 4-40 x 9/16 Fil 32, 42,45	153239	Roller 4,55
151346	Screw, 6-40 x 3/8 Fil 21	151736	Spring 21	153267	Washer, Felt 22,46
151362	Wick, Felt 4	151737	Screw, 4-40 x 11/64 Hex 3, 5,8,20,21,23,31,32,34,38, 47	153342	Screw, 6-40 x 15/15 Hex 48
151398	Spring 13	151846	Post, Spring 56	153489	Detent 14
151416	Nut, 6-40 Hex 7,8	151848	Lock 31	153537	Screw, 6-40 x 9/32 Hex 55
151442	Screw, 6-40 x 1/2 Hex 4, 5,10,11,15,16,21,25,33, 38,42,46,55	151879	Stud 24	153538	Screw, 6-40 x 7/16 Hex 15,46,47,55
151603	Spacer 16	151880	Nut, 4-40 Hex 17,23,25,31, 33,43,47,55	153543	Armature 16
151629	Nut, 6-40 Lug 3,8,10,20, 30,36,40,43,	151886	Stud 24	153799	Screw, 4-40 x 21/64 Hex 20,30,40
151630	Screw, 6-40 x 1/4 Hex 3, 7,9,10,12,15,18,19,20,21, 24,25,30,32,34,35,40,47, 48,50,56	152129	Spring 47	153806	Spring 19
151631	Screw, 6-40 X 5/16 Hex 3, 4,6,7,9,13,16,17,19,21,31, 32,36,44,54,55	152400	Plate, Selector Mounting 15,16,21,25,41,52,55,	153817	Screw, 4-40 x 3/8 Hex 33, 37,39,42,50,51
151632	Screw, 6-40 x 3/8 Hex 4,5, 6,15,17,21,24,28,32,34,38, 39,40,42,52,55	152401	Guide 15	153819	Lockwasher 26,49
151637	Screw, 4-40 x 1/4 Fil 6, 18,39,42,50,56	152402	Guide, Selector Lever 14, 15,21	153839	Screw, 6-40 x 5/8 Hex 3, 8,10,15,20,30,36,40,43
151640	Lever, Shoe Release 3	152403	Bracket, Guide 15	153841	Screw, 6-40 x 9/16 Hex 23,47,52
151642	Screw, 6-40 x 3/4 Fil 40	152404	Bracket, Spring 15	154235	Spring 13,35,54
151657	Screw, 6-40 x 1/4 Fil 4, 14,15	152405	Locklever, Marking 15	154242	Screw, 6-40 x 5/16 Hex 4
151658	Screw, 6-40 x 5/16 Fil 3, 4,21,26,40	152406	Bracket, Spring 15	154244	Nut, 6-40 Shoulder 11
151659	Screw, 6-40 x 1/2 Fil 40	152407	Locklever, Spacing 15	154245	Spring, Contact 35
151685	Screw, 4-40 x 5/16 Fil 40	152409	Lever, Selecting 15	154246	Bracket, Contact 35
151686	Screw, 4-40 x 3/8 Fil 16	152410	Bail, Reset 15	154247	Contact Assembly 35
151688	Screw, 4-40 x 5/8 Fil 16, 34,35,42,48,49,54	152411	Lever, Push 15	154335	Screw, 6-40 x 9/32 Fil 21
151689	Screw, 4-40 x 3/4 Fil 25, 49	152412	Link 15	154352	Spring 44,49
151690	Screw, 10-32 x 5/16 Fil 5, 21	152415	Stud, Adjusting 16,21	154396	Cam w/Pin 5
151692	Screw, 6-40 x 3/16 Fil 19	152420	Lamination, Magnet 16	154397	Shaft w/Bearing 3,4,5,20, 21,28,30,40
151693	Screw, 6-40 x 9/16 Fil 3	152421	Bracket, Shield Mounting 16	154398	Bearing, Needle 5,28
151694	Screw, 6-40 x 11/32 Fil 34,39,40,42	152423	Bracket, Armature Stop Mounting 16	154620	Wick, Leather 15
		152425	Post, Spring 16	154621	Retainer, Wick 15
		152426	Nut, 6-40 Self Locking 16	154622	Lubricator 15
		152427	Latch, w/Hub 14	154694	Disc, Clutch Cam 3,5
		152429	Rack, Sector 14	155090	Lubricator Assembly 15
		152432	Arm, Stop 14	155096	Plate, Range Finder Mounting 14
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