

BULLETIN 1167B

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

PARTS



TELETYPE[®]
CORPORATION

5555 TOUHY AVENUE, SKOKIE, ILLINOIS

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573-123-800TC	28 Send-Receive Reperforator Keyboard Base (LTRK) and 28 Send-Receive Tape Printer Keyboard Base (LTPK)	2	April 1971
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NOTE: For motors refer to bulletin 295B
*Indicates revised sections

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

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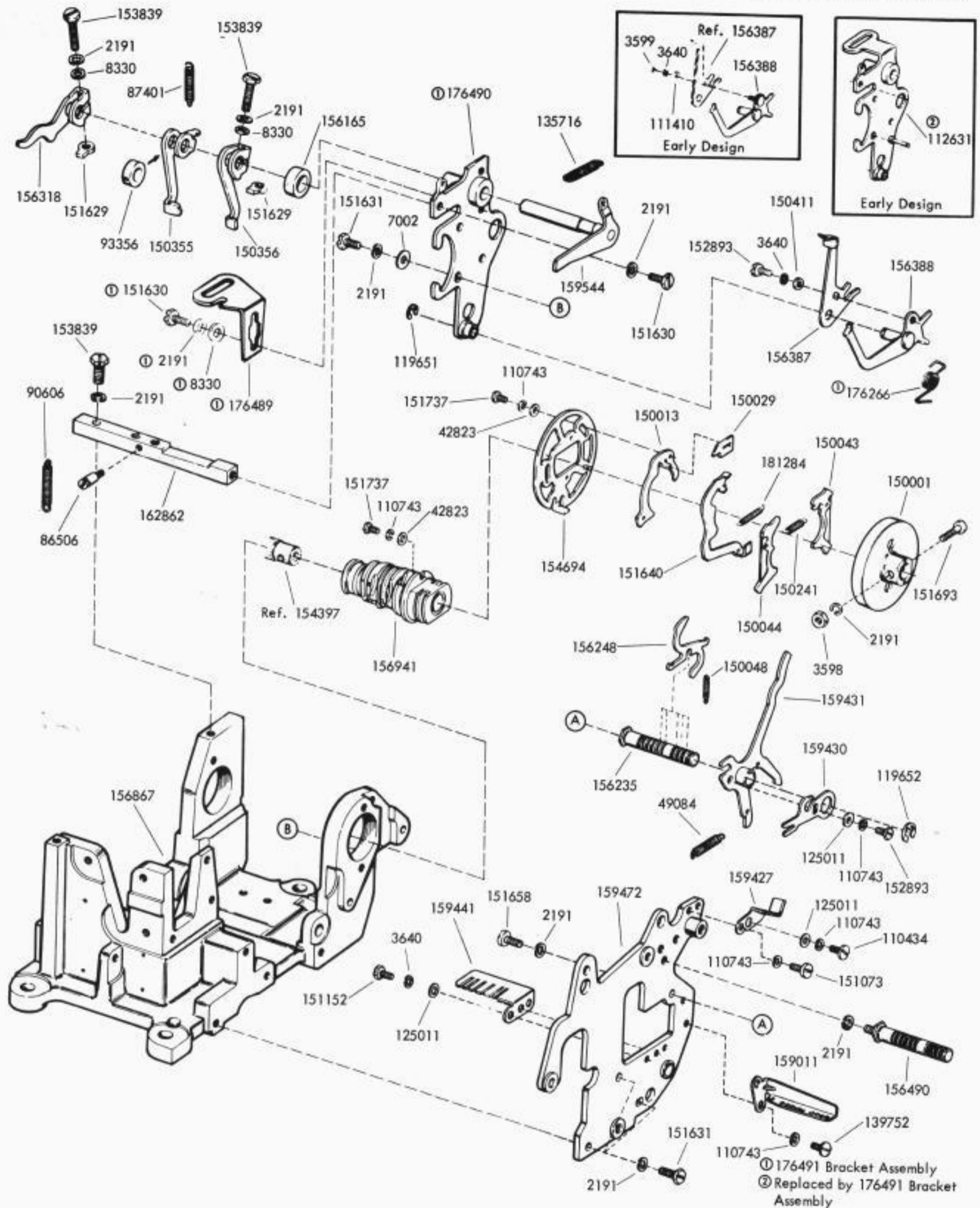


FIGURE 1. ONE SHAFT FRAME MECHANISM

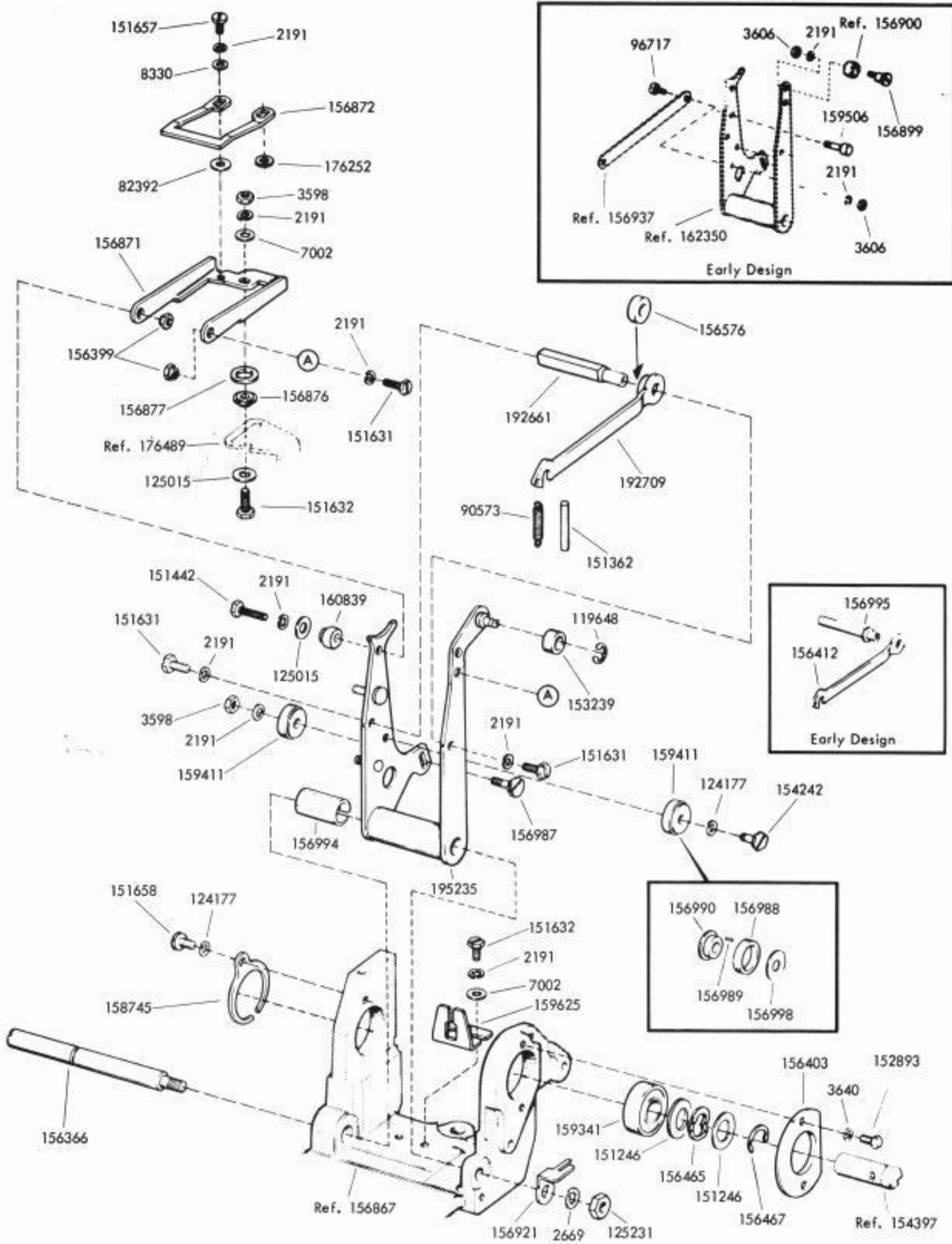
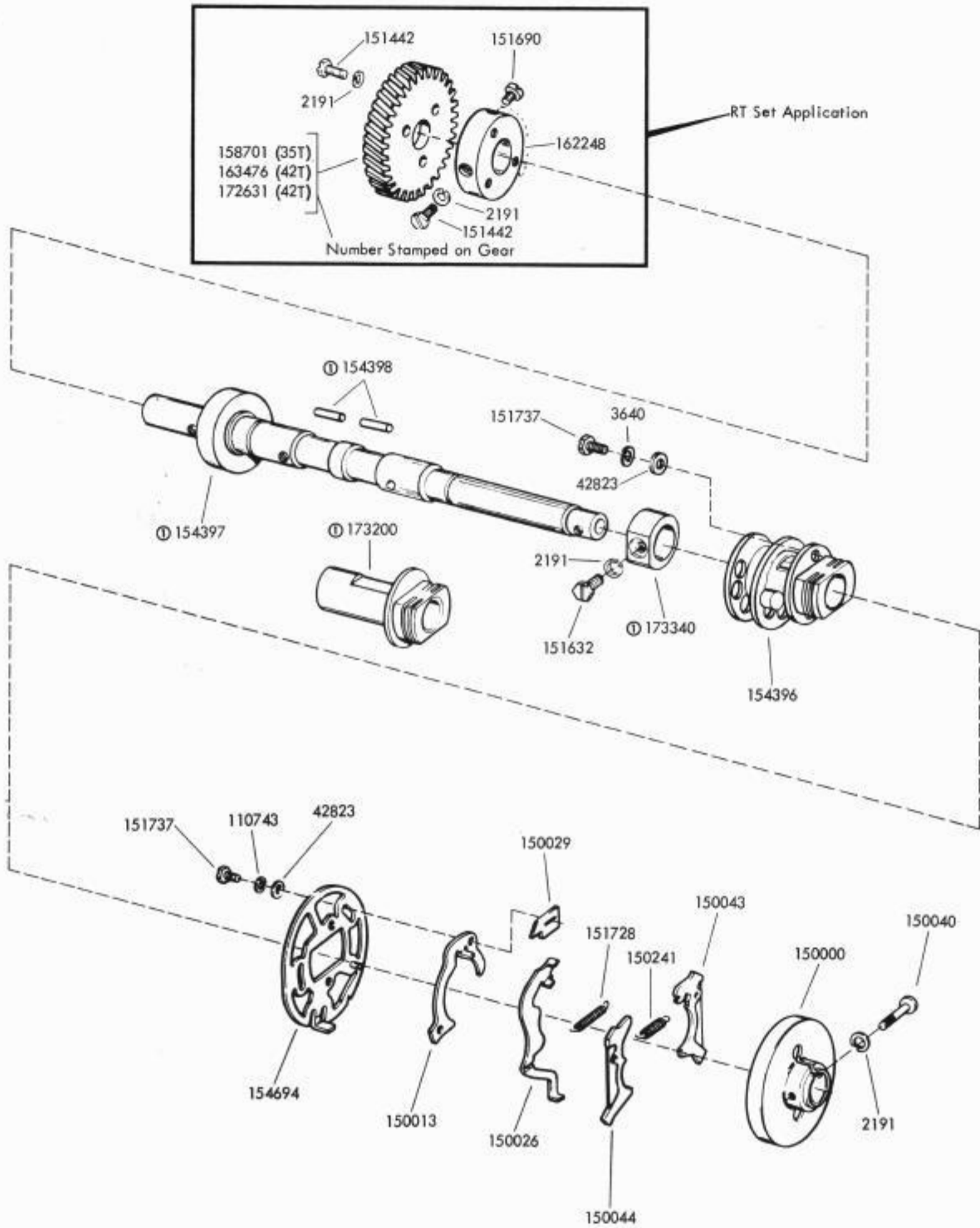


FIGURE 2. FRAME MECHANISM



① 173336 Modification Kit to Provide
New Style Shaft and Bearing
Specification 59795

FIGURE 3. MAIN SHAFT MECHANISM

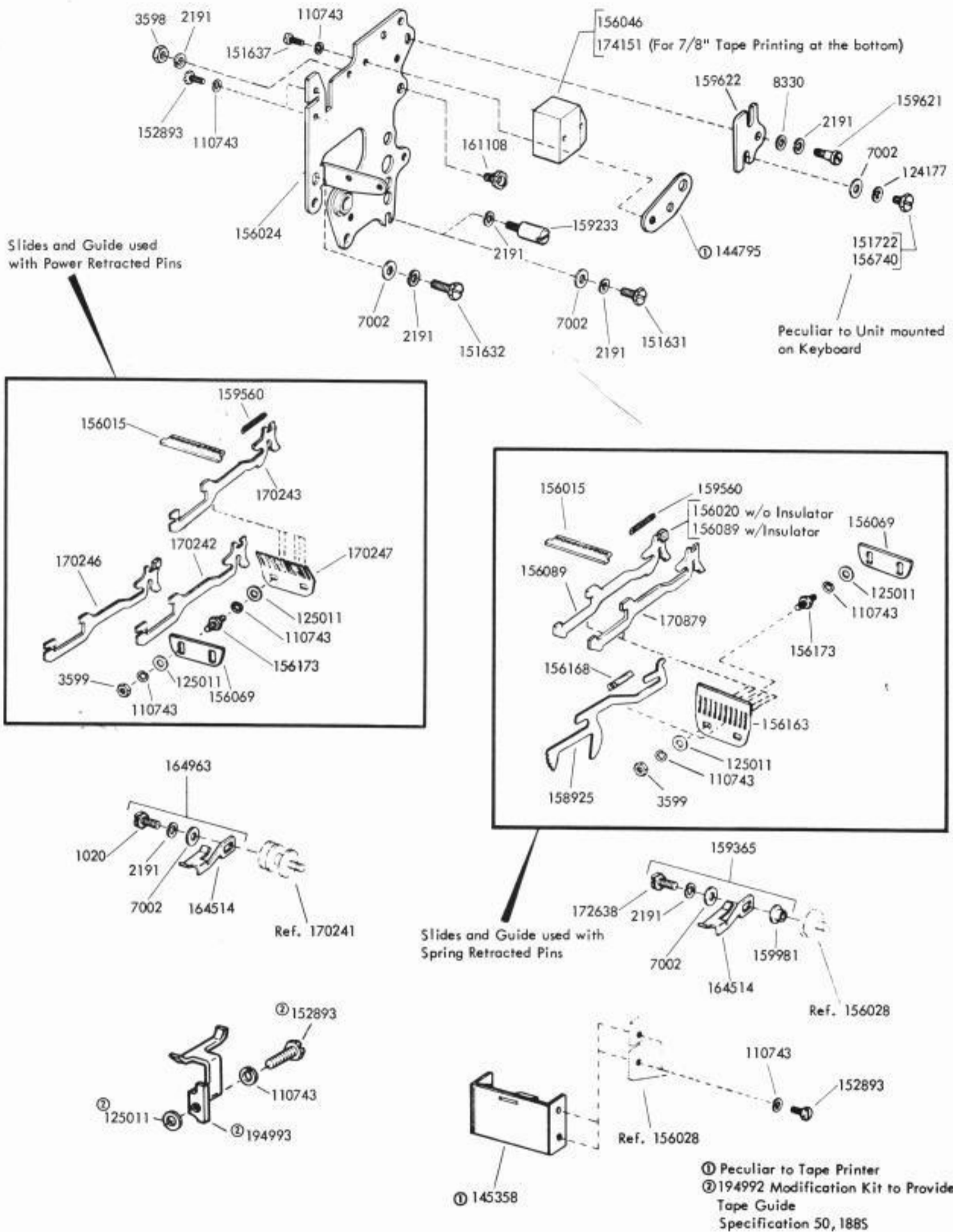
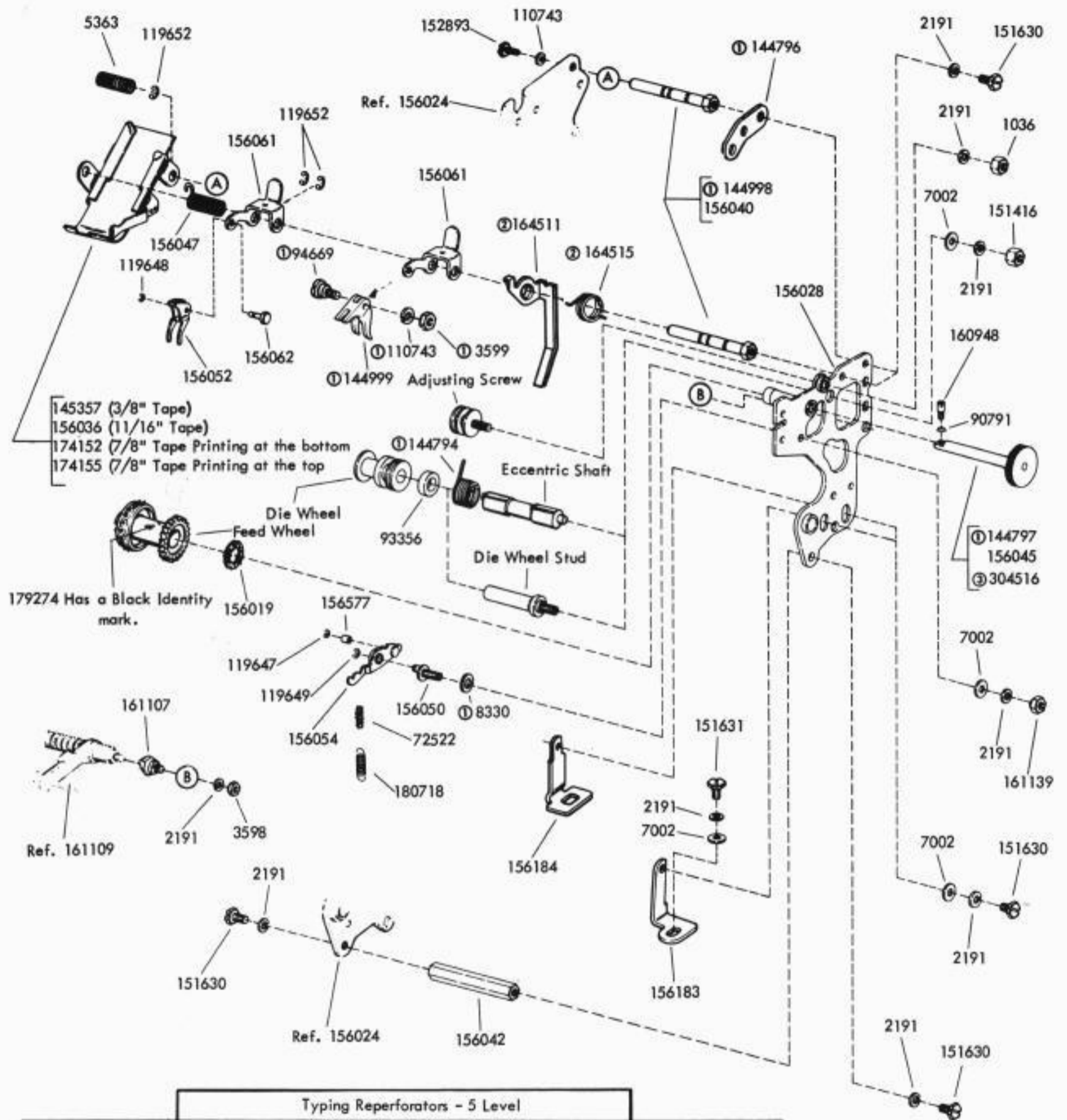


FIGURE 4. PUNCH REAR PLATE MECHANISM



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

① Peculiar to Tape Printer
 ② Chadless Tape Only
 ③ 304515 Modification Kit to Eliminate Tape Loading Safety Hazard. Specification 502735

FIGURE 5. PUNCH FRONT PLATE MECHANISM

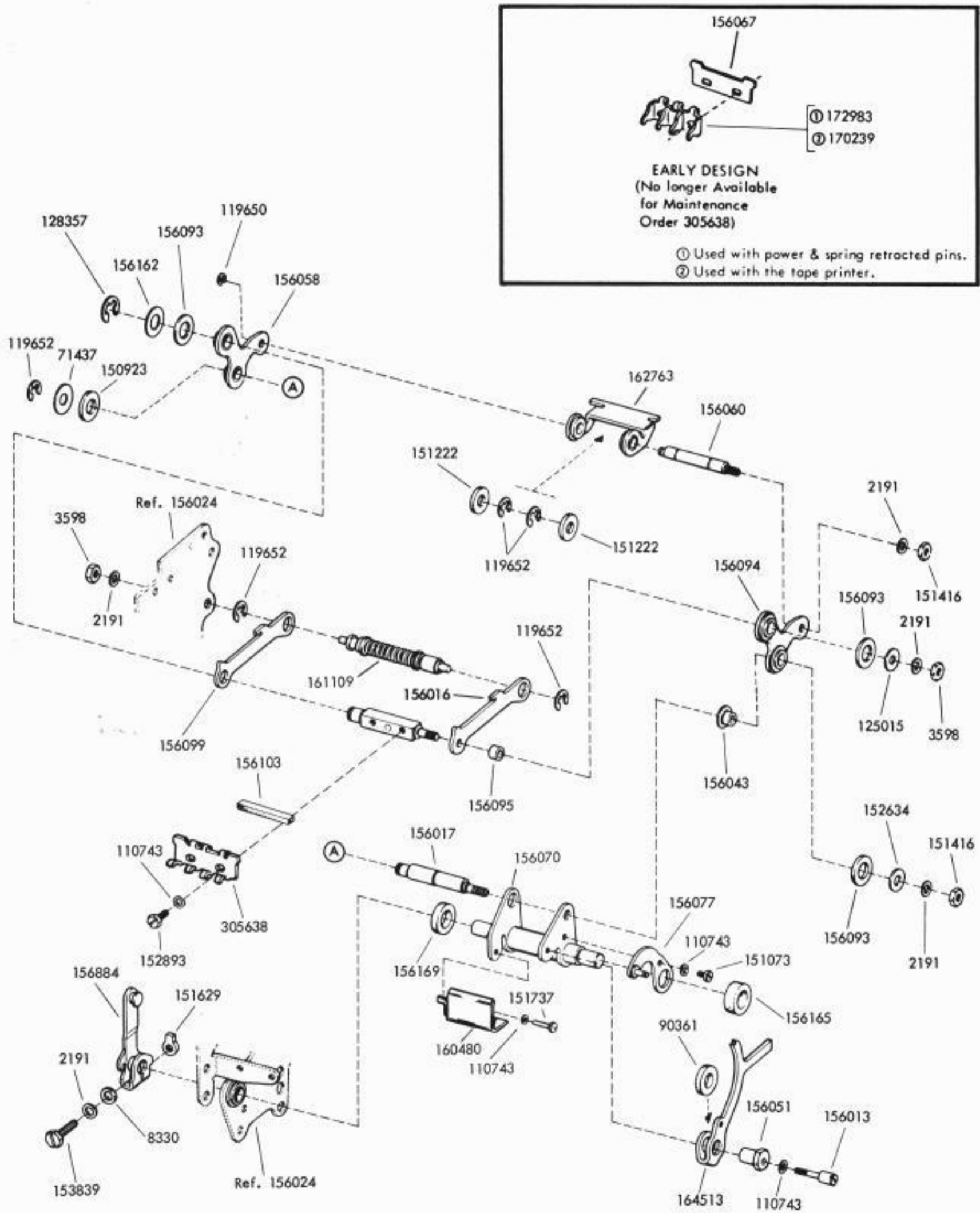


FIGURE 6. PUNCH BAIL MECHANISM

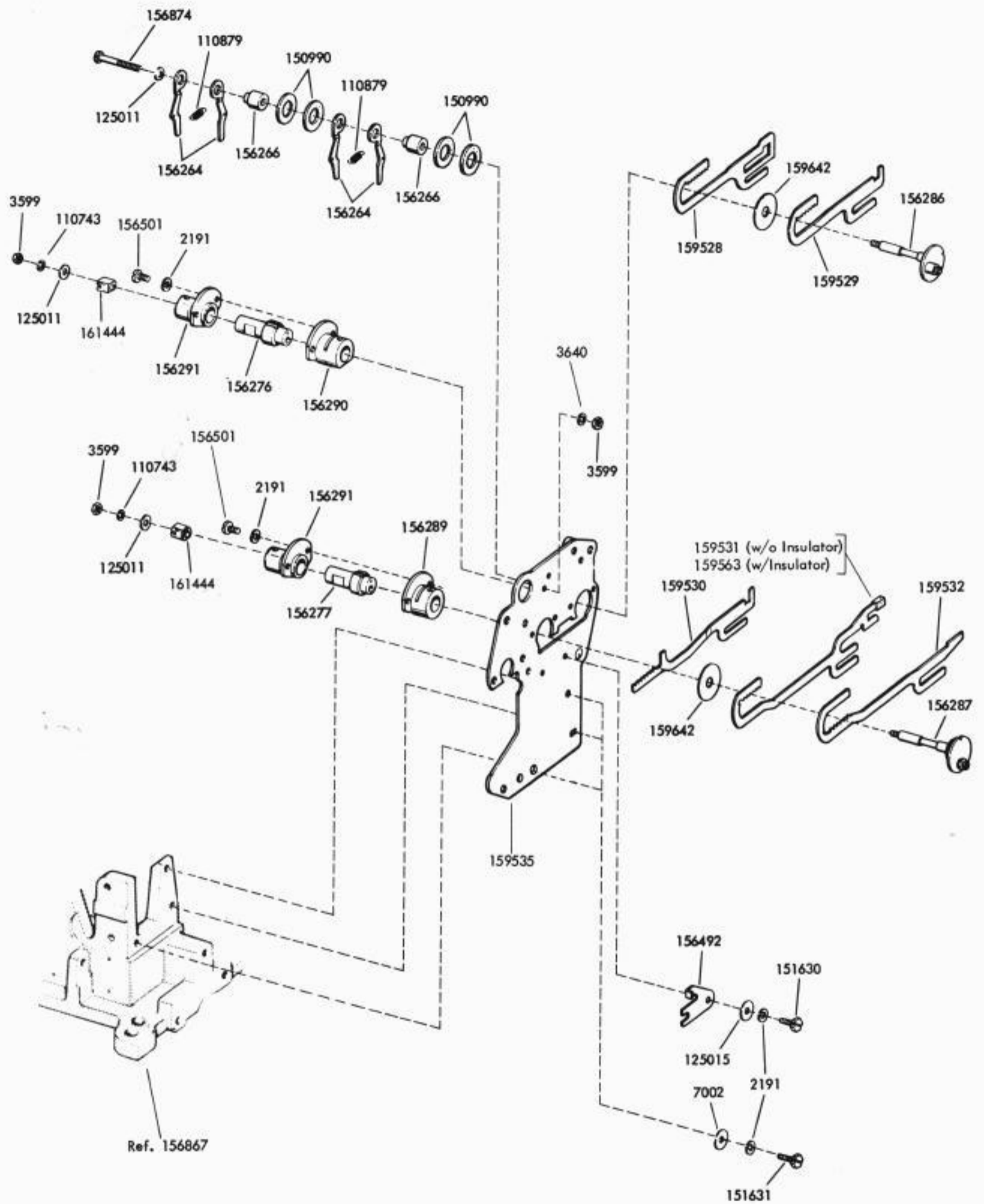


FIGURE 7. ROTARY POSITIONING MECHANISM

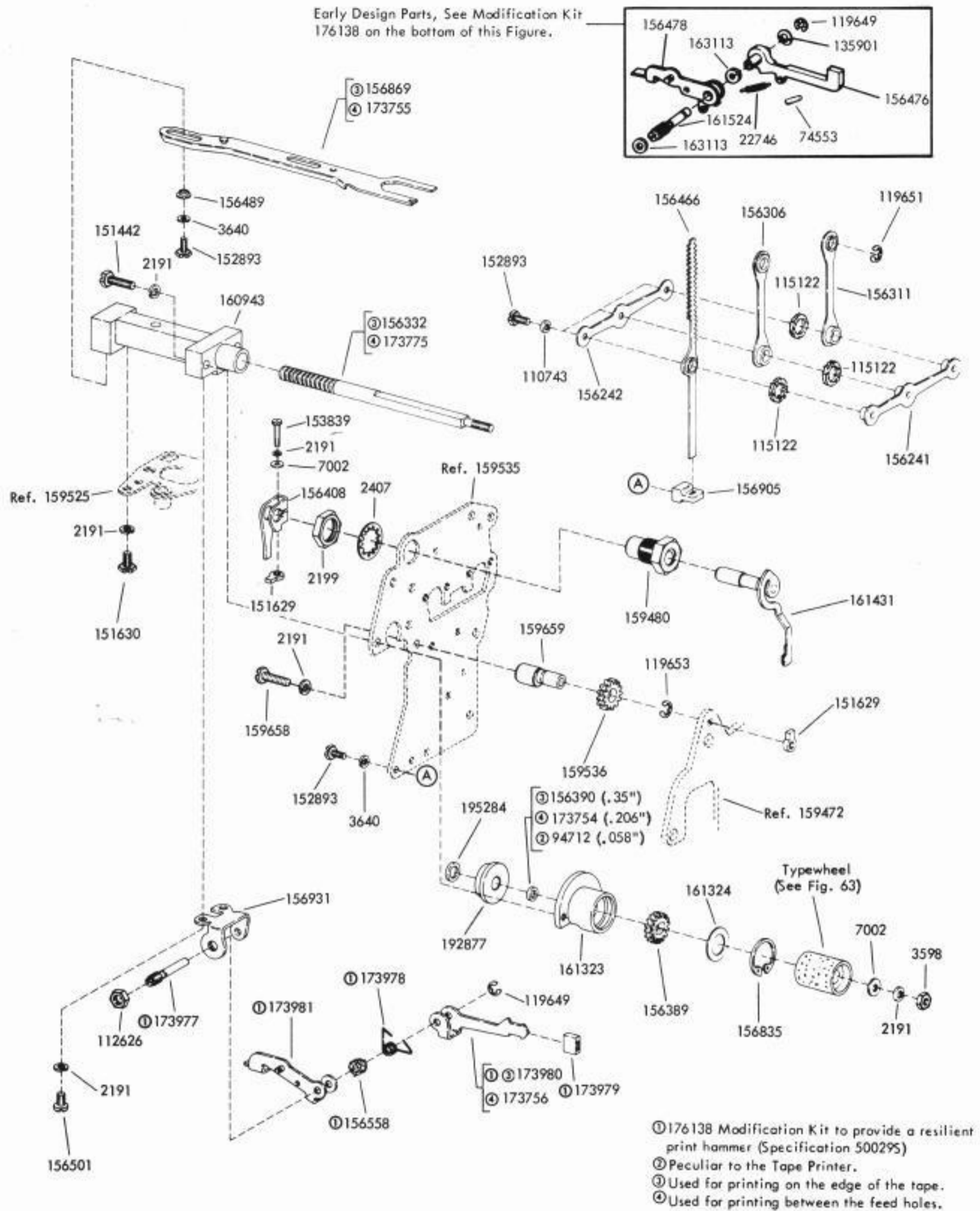


FIGURE 8. ROTARY POSITIONING MECHANISM (Continued)

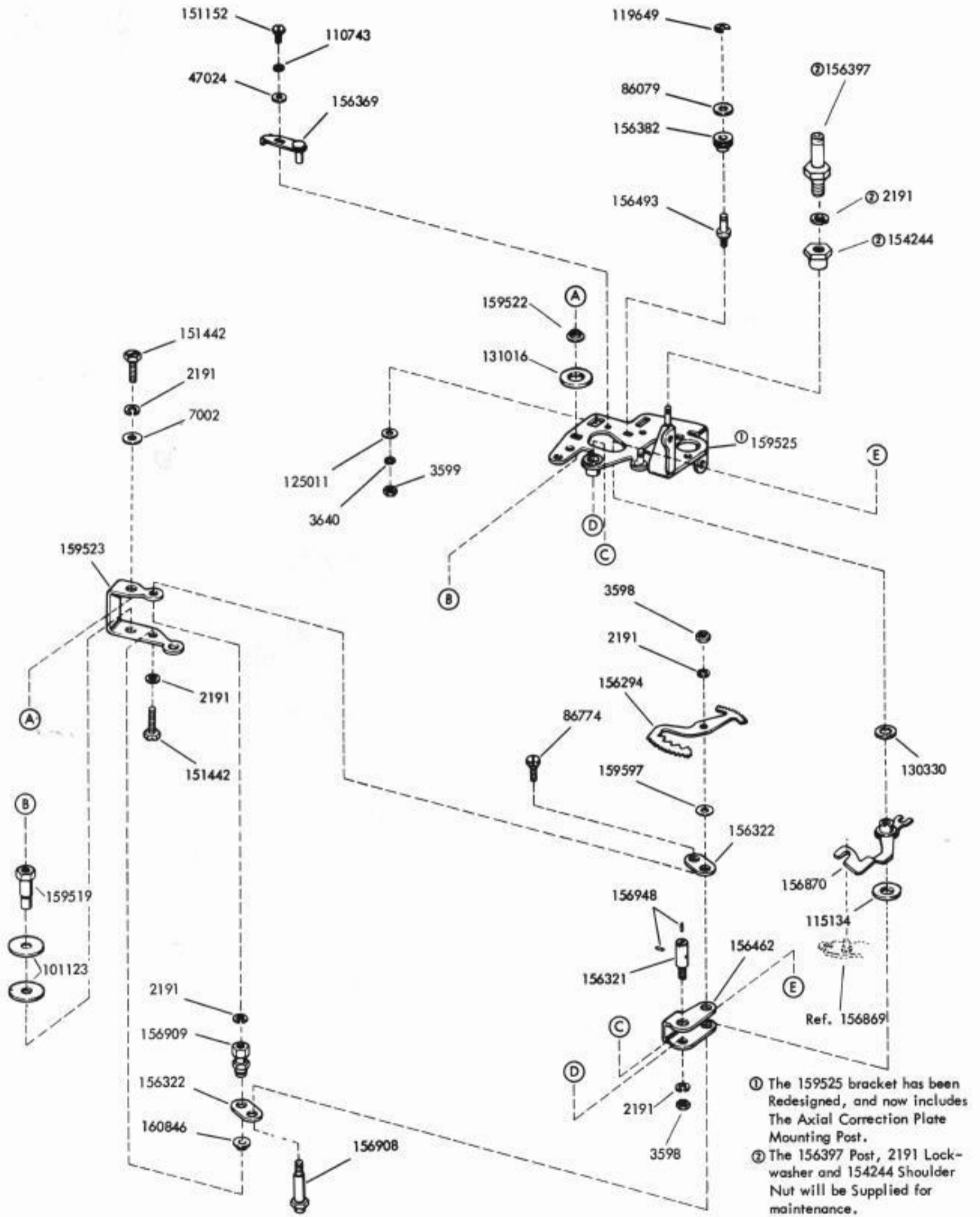


FIGURE 9. AXIAL POSITIONING MECHANISM

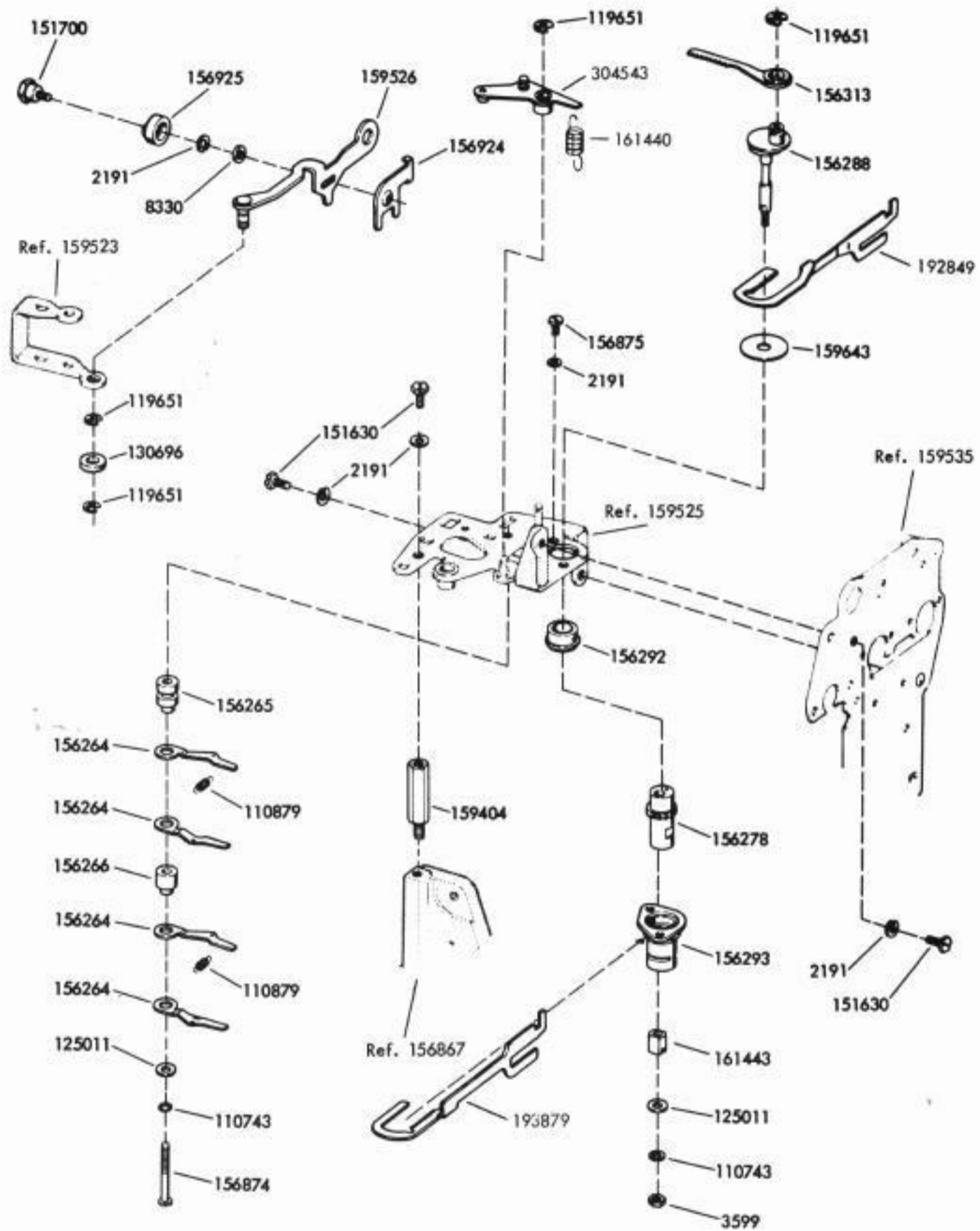
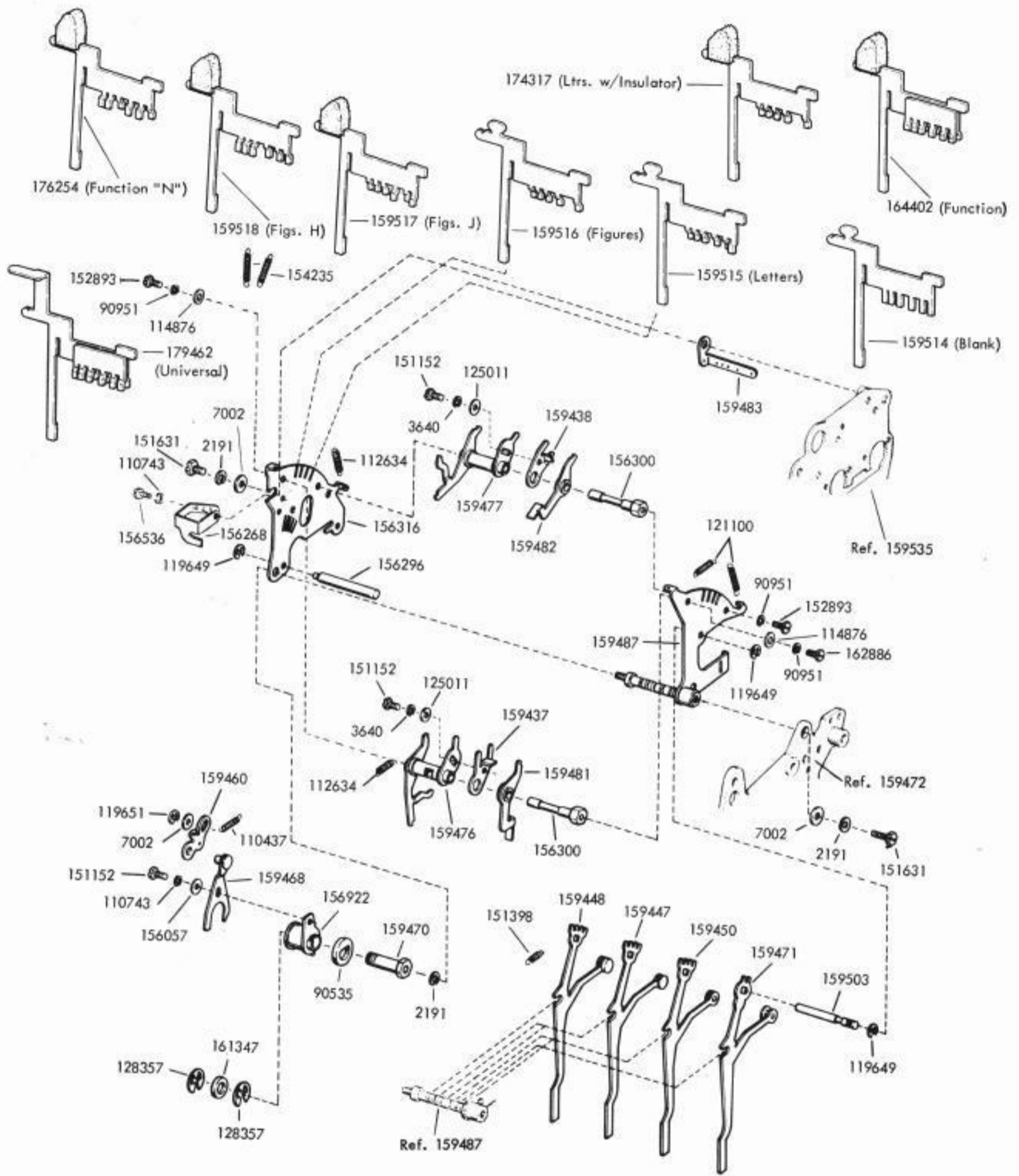


FIGURE 10. AXIAL POSITIONING MECHANISM (Continued)



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

FIGURE 11. FUNCTION BOX MECHANISM

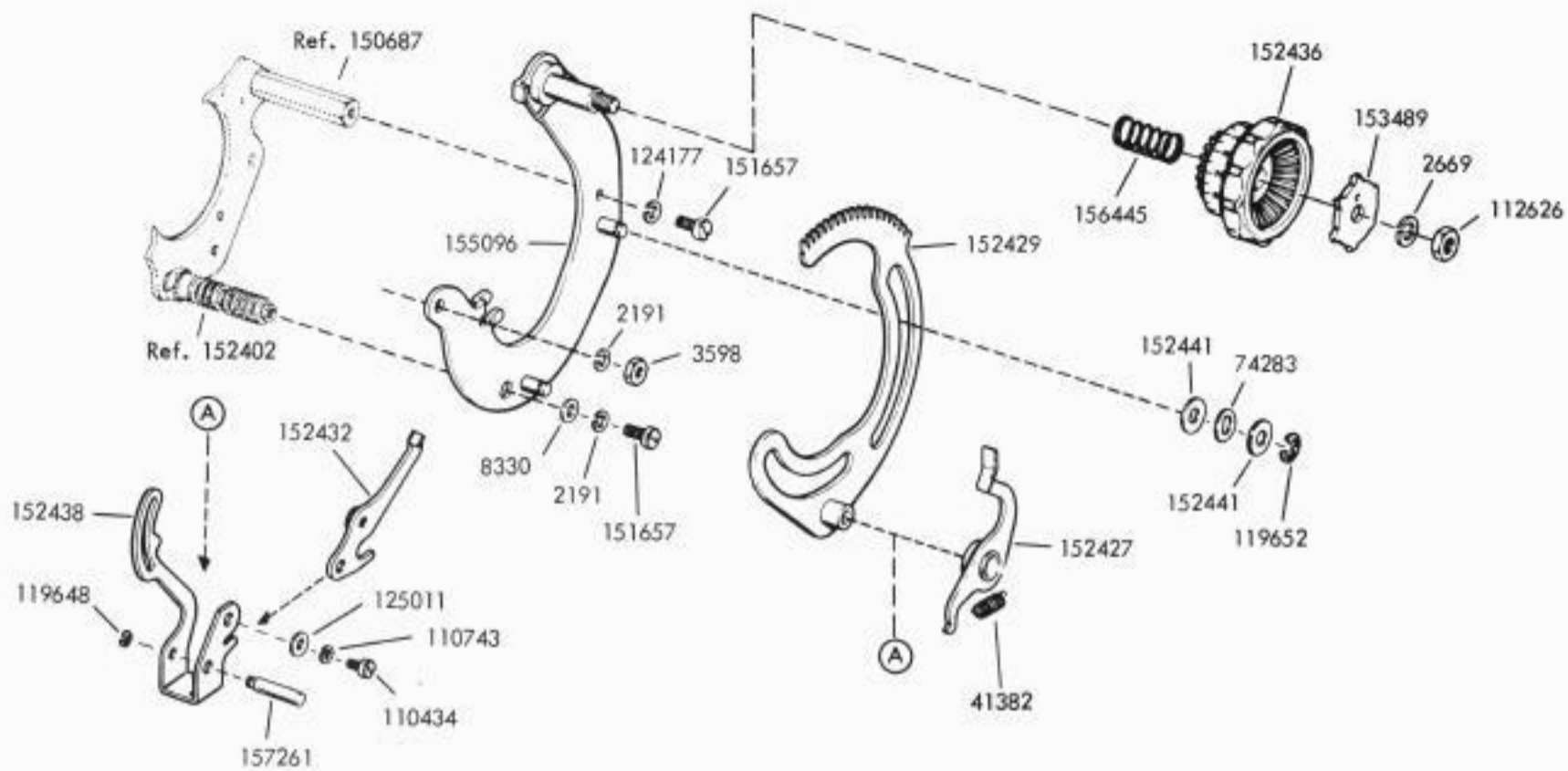


FIGURE 12. RANGE FINDER MECHANISM

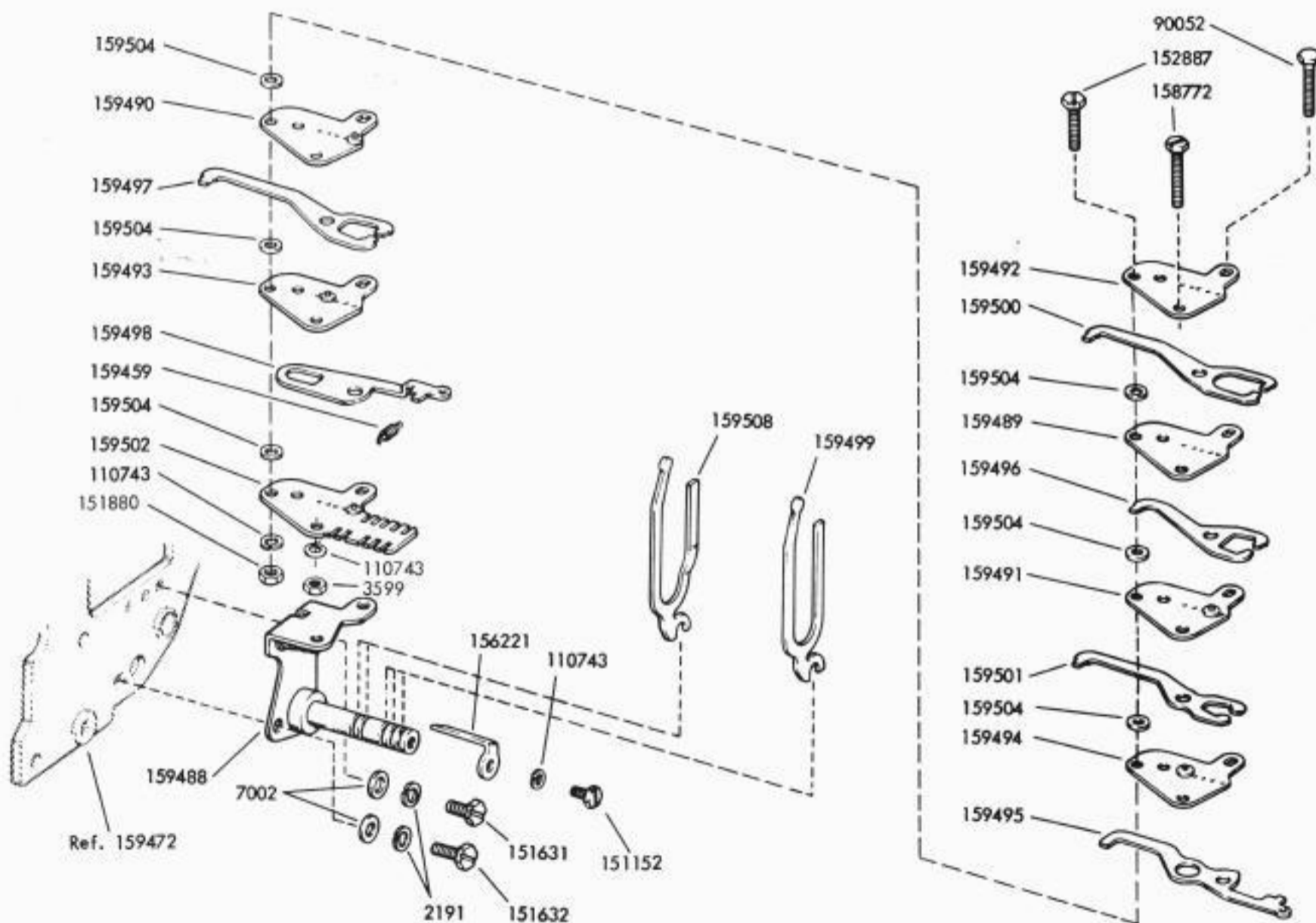


FIGURE 13. TRANSFER MECHANISM

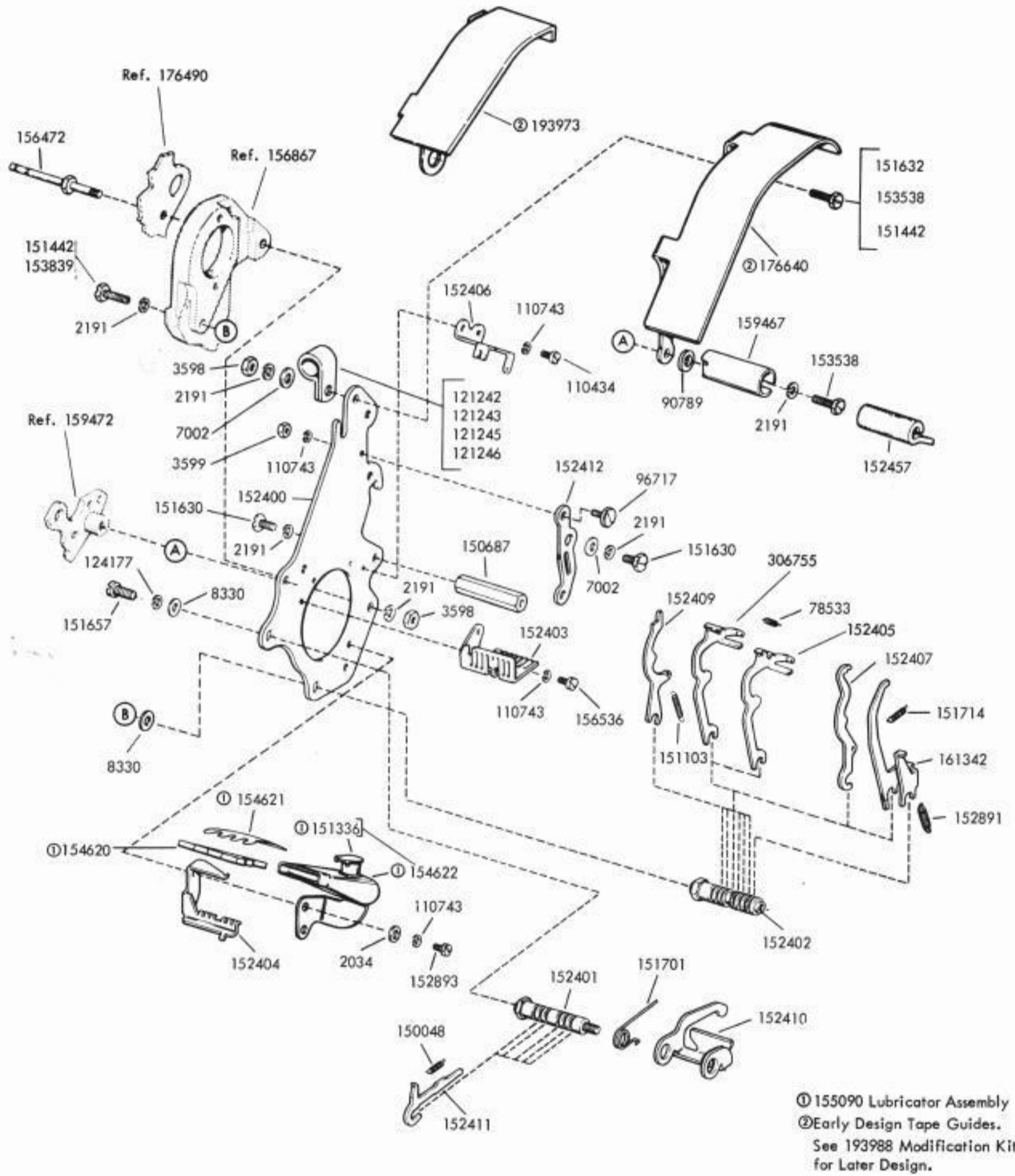
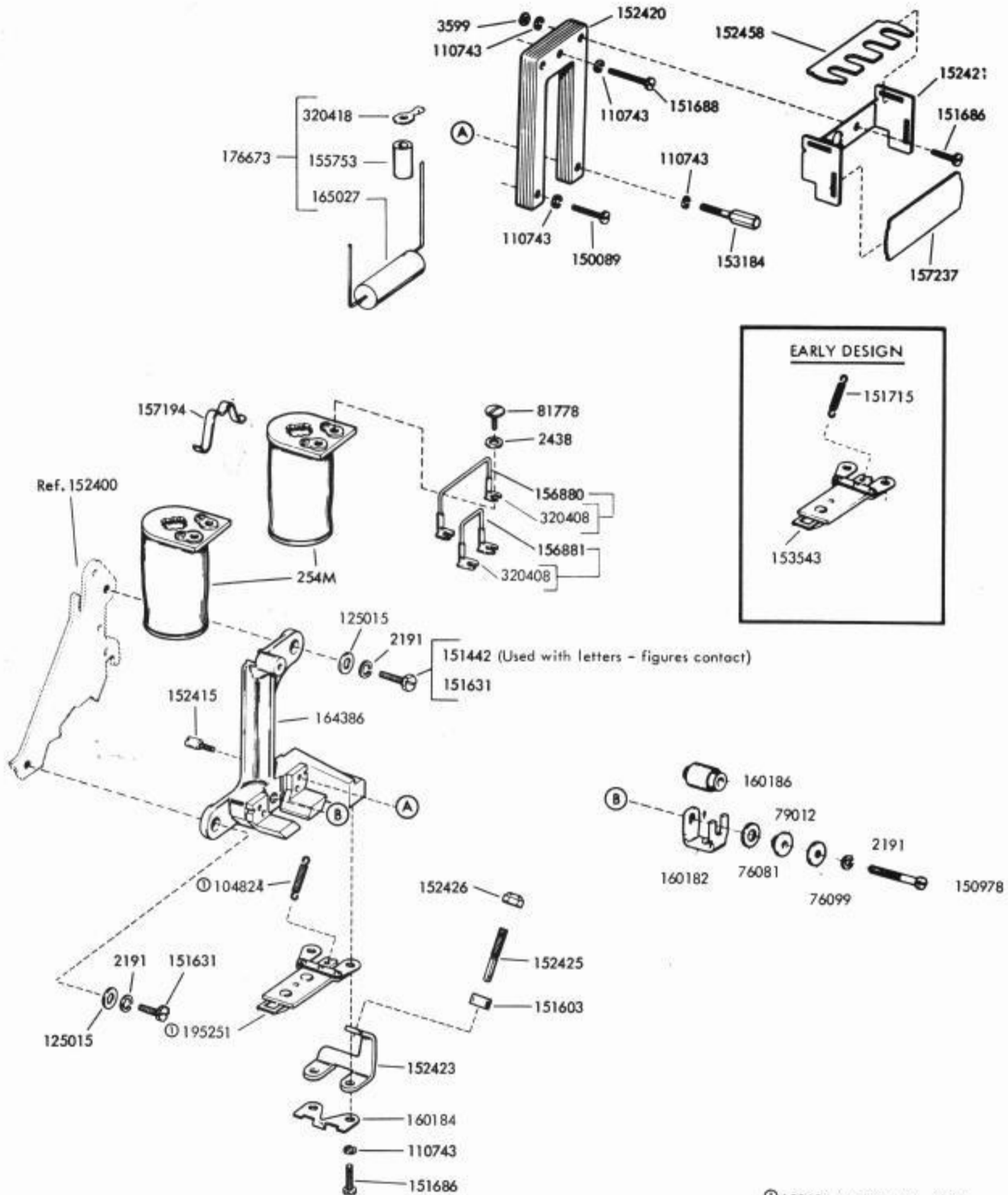
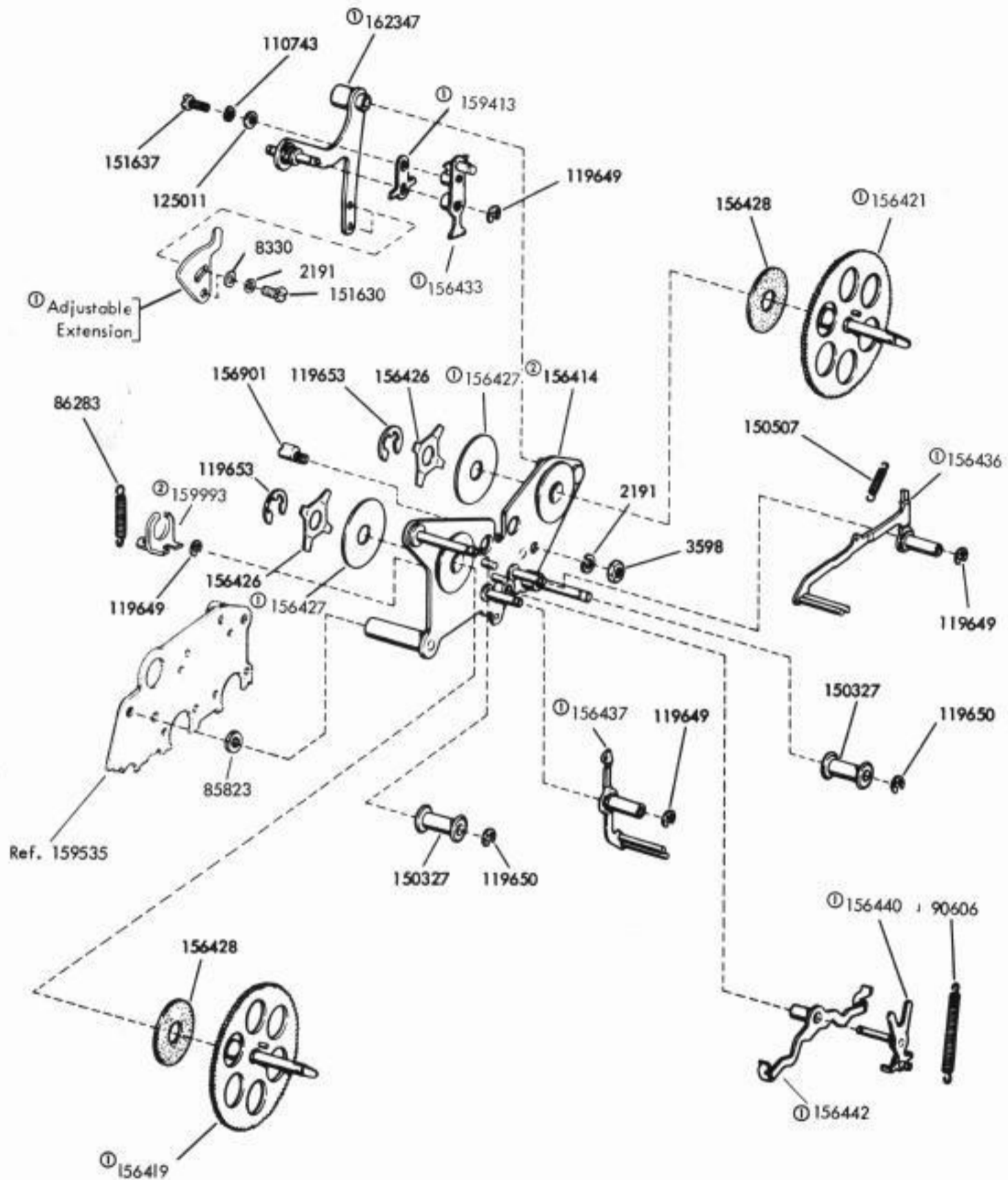


FIGURE 14. SELECTING MECHANISM



① 195634 Modification Kit to provide quick release of the armature. (New and Early design parts are interchangeable only in pairs). Specification 501655

FIGURE 15. SELECTING MAGNET MECHANISM



For Latest Design Ribbon Feed Mechanism, See Figure 21.

- 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.

FIGURE 16. EARLY DESIGN RIBBON FEED PARTS

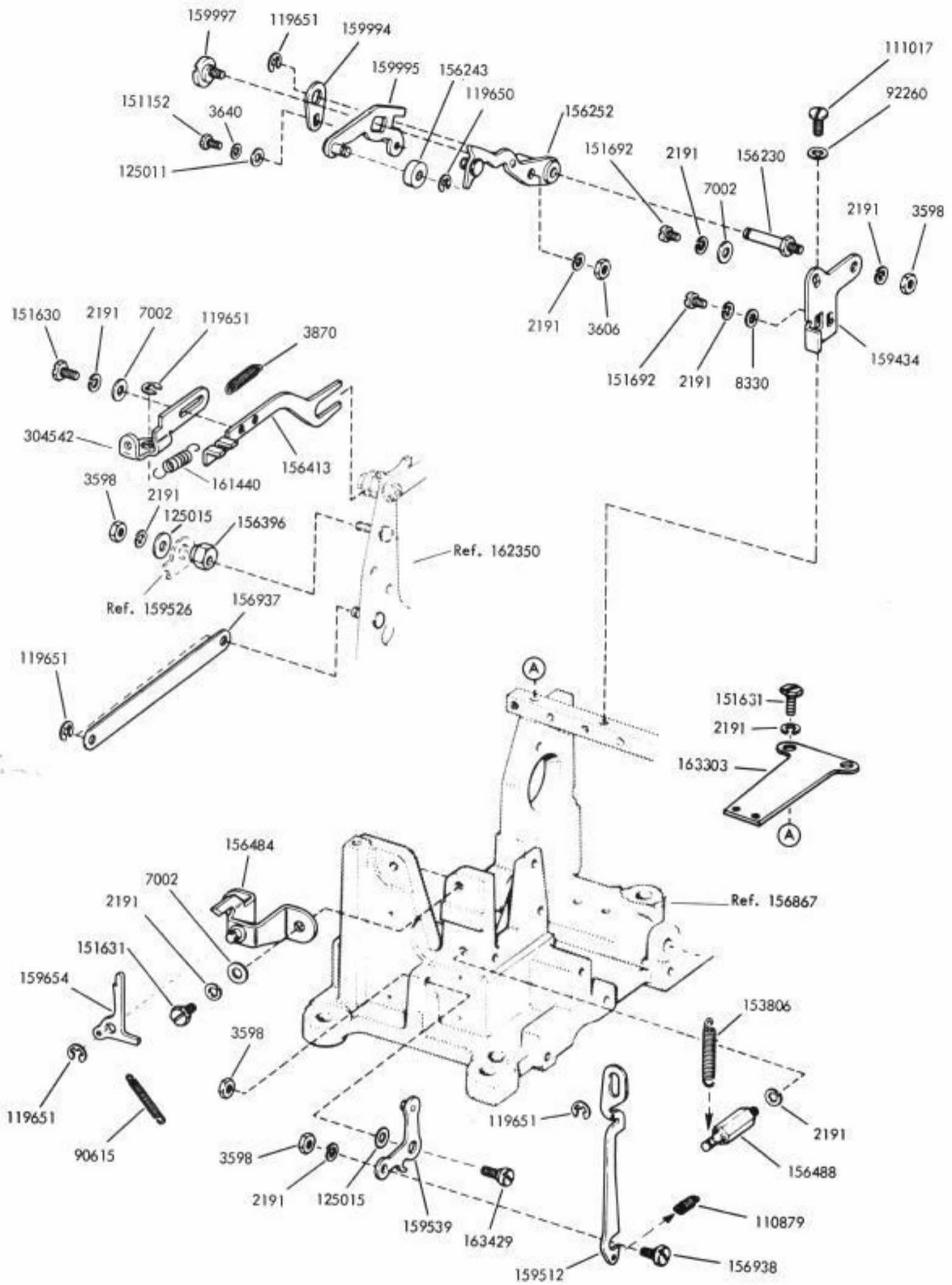
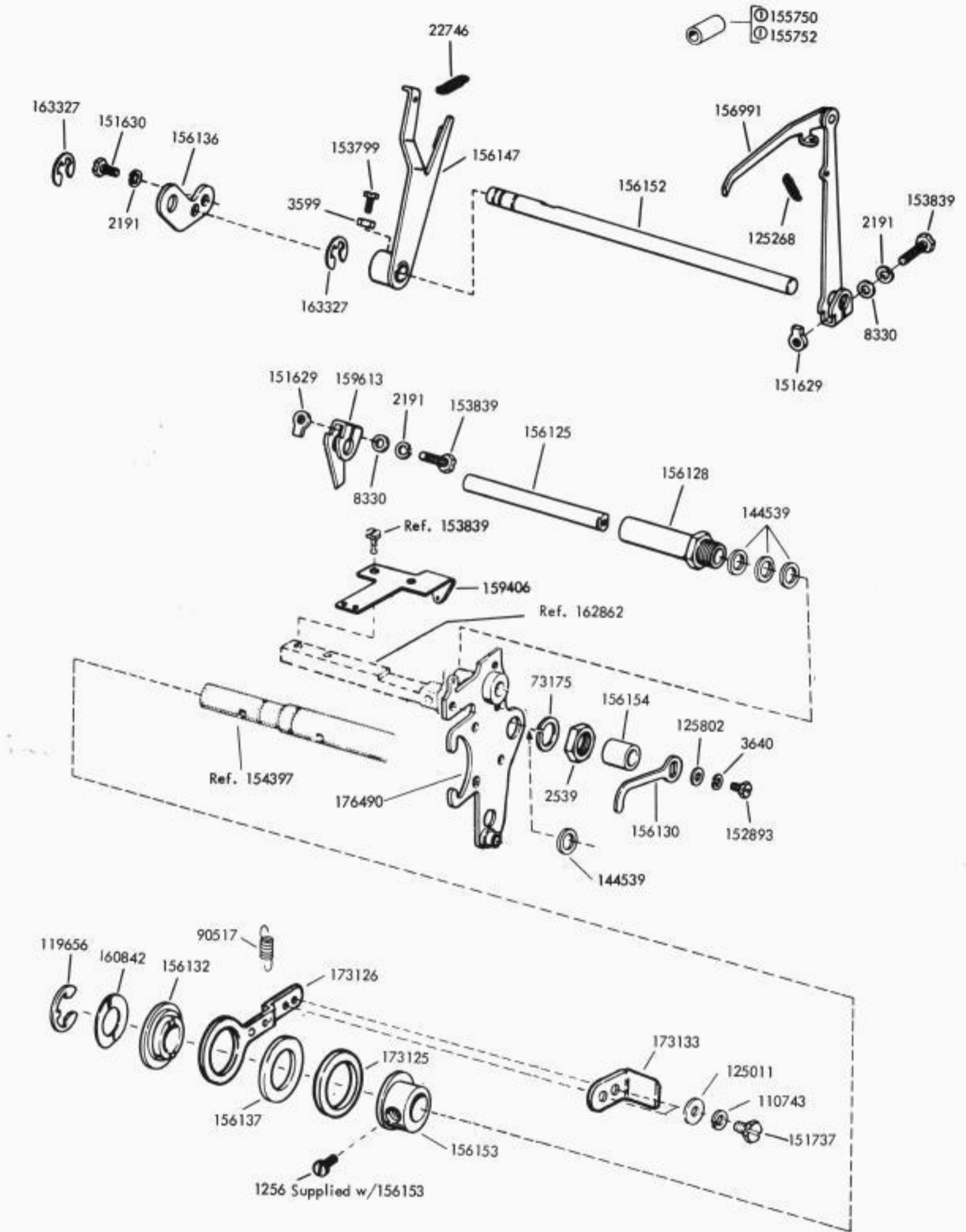


FIGURE 17. TYPING MECHANISM



Ⓢ 173134 Cable

FIGURE 18. NON-INTERFERING TAPE FEED-OUT MECHANISM

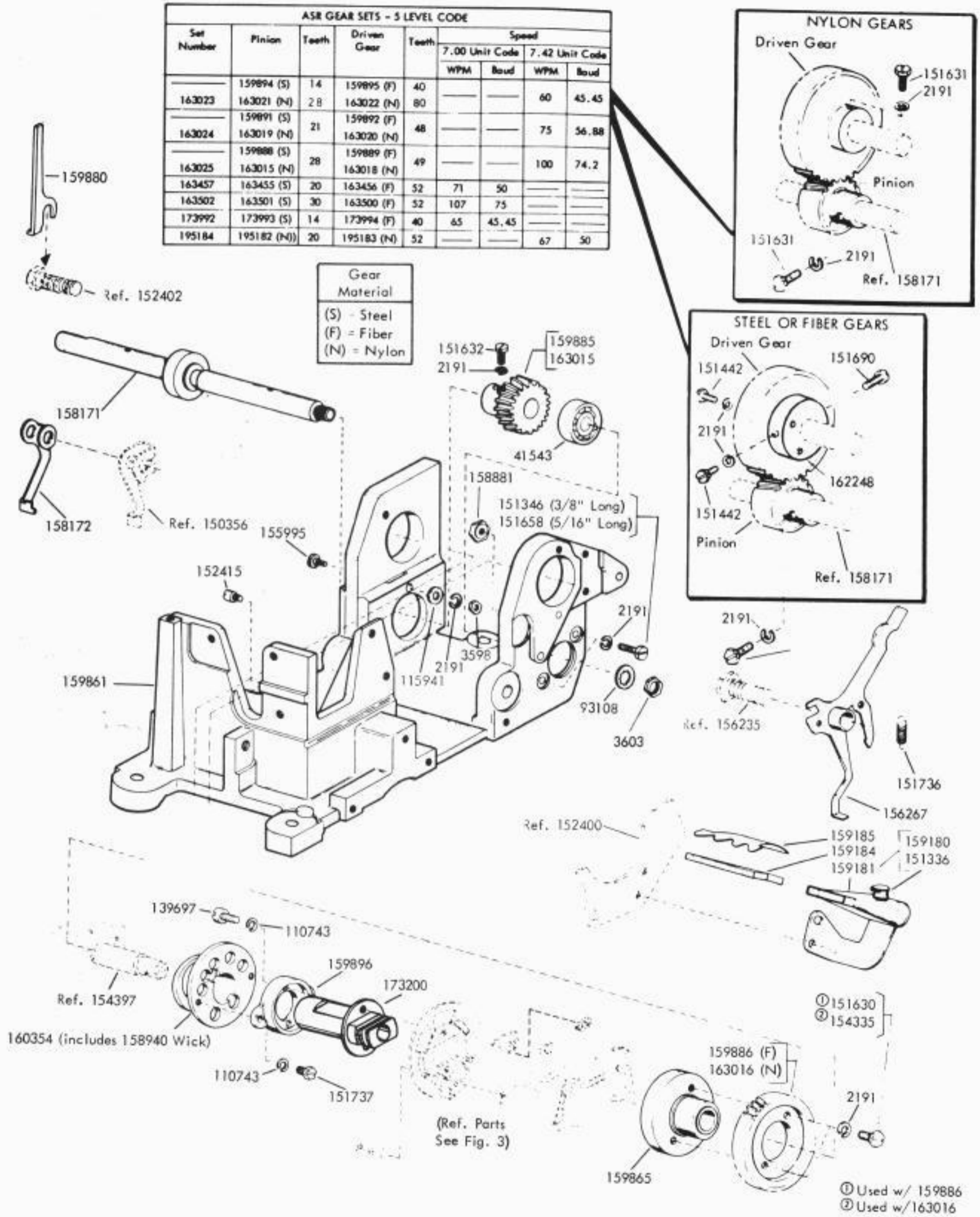


FIGURE 19. TWO-SHAFT FRAME MECHANISM (FOR ASR KEYBOARD)

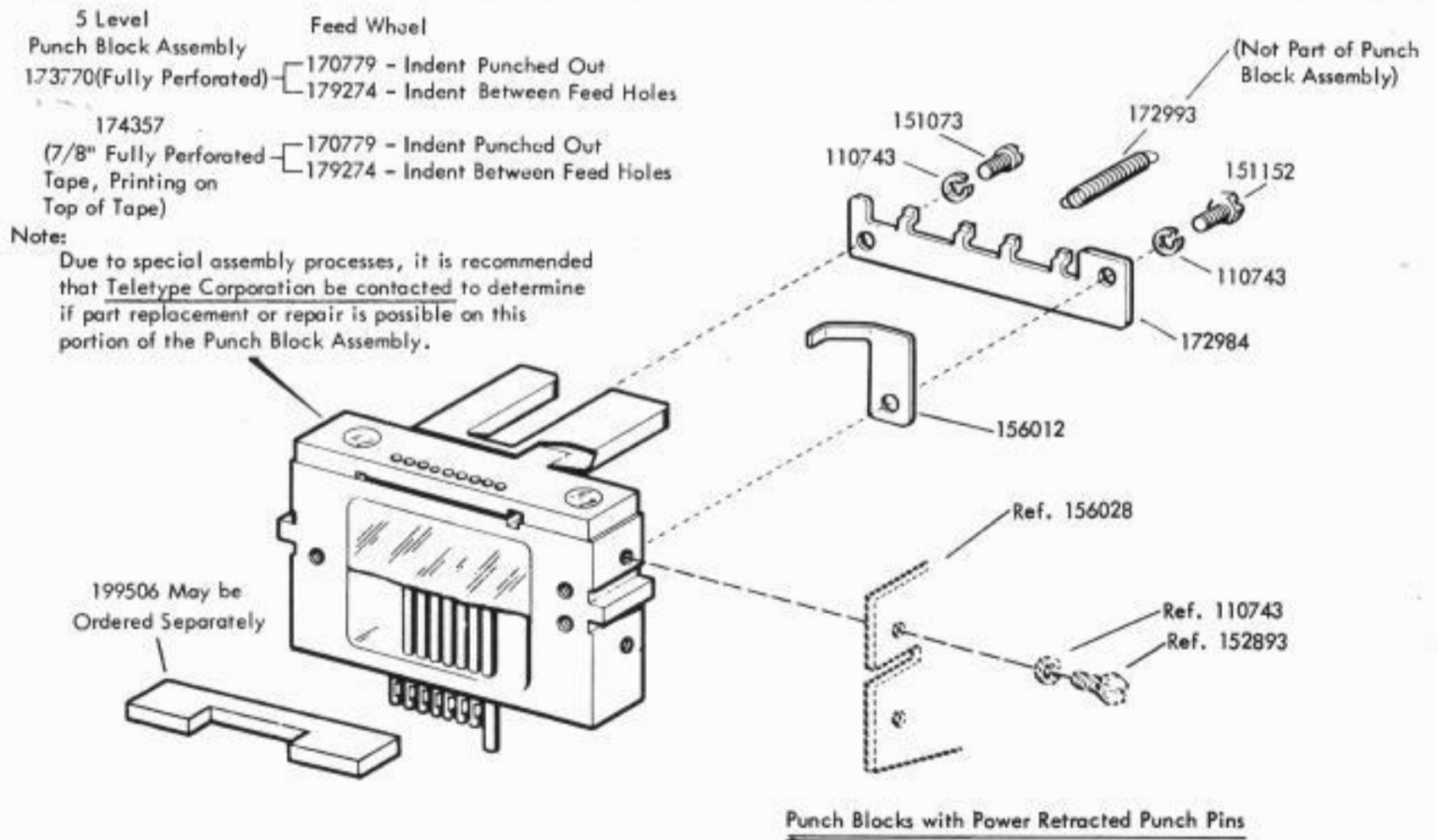
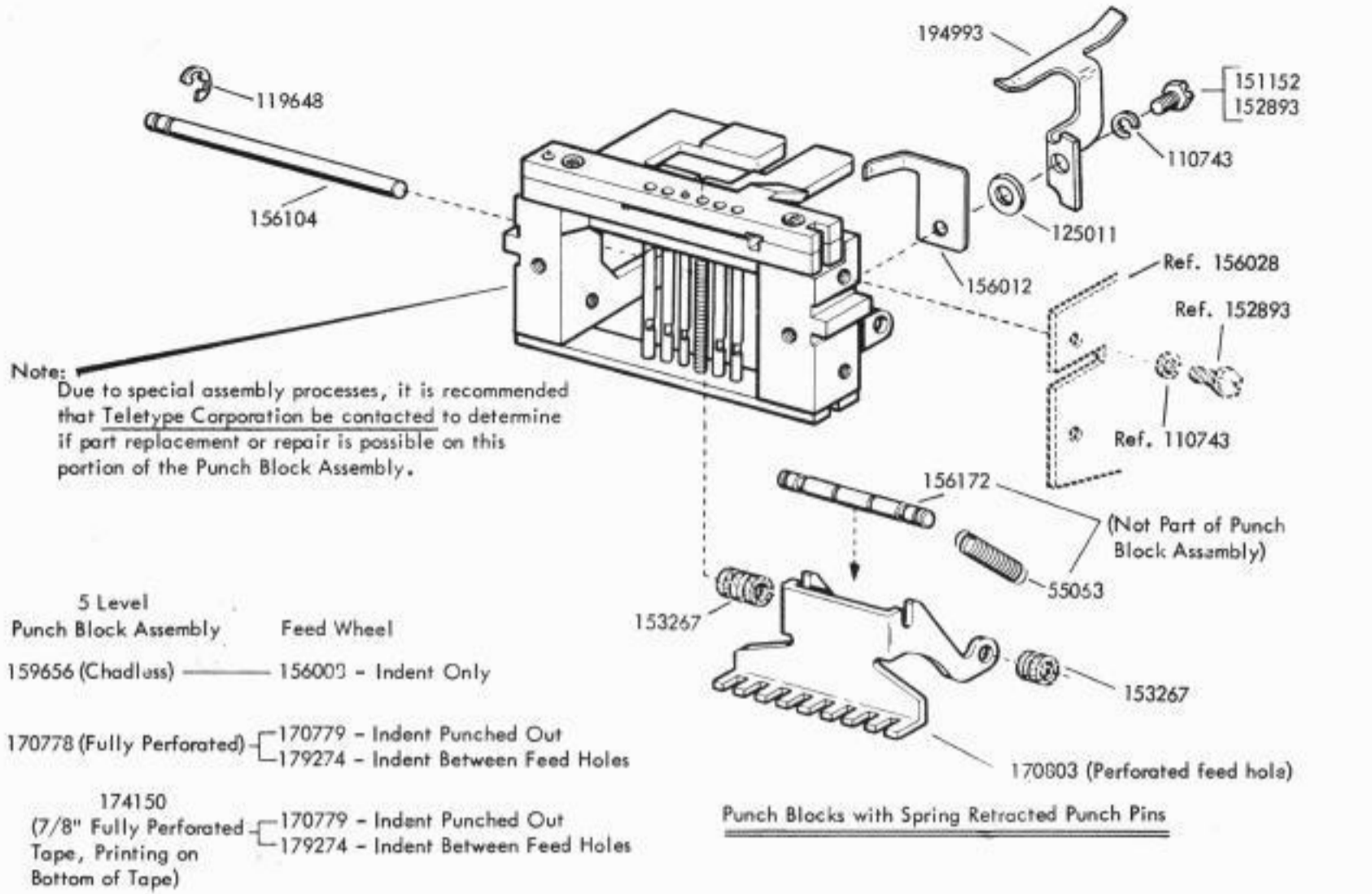
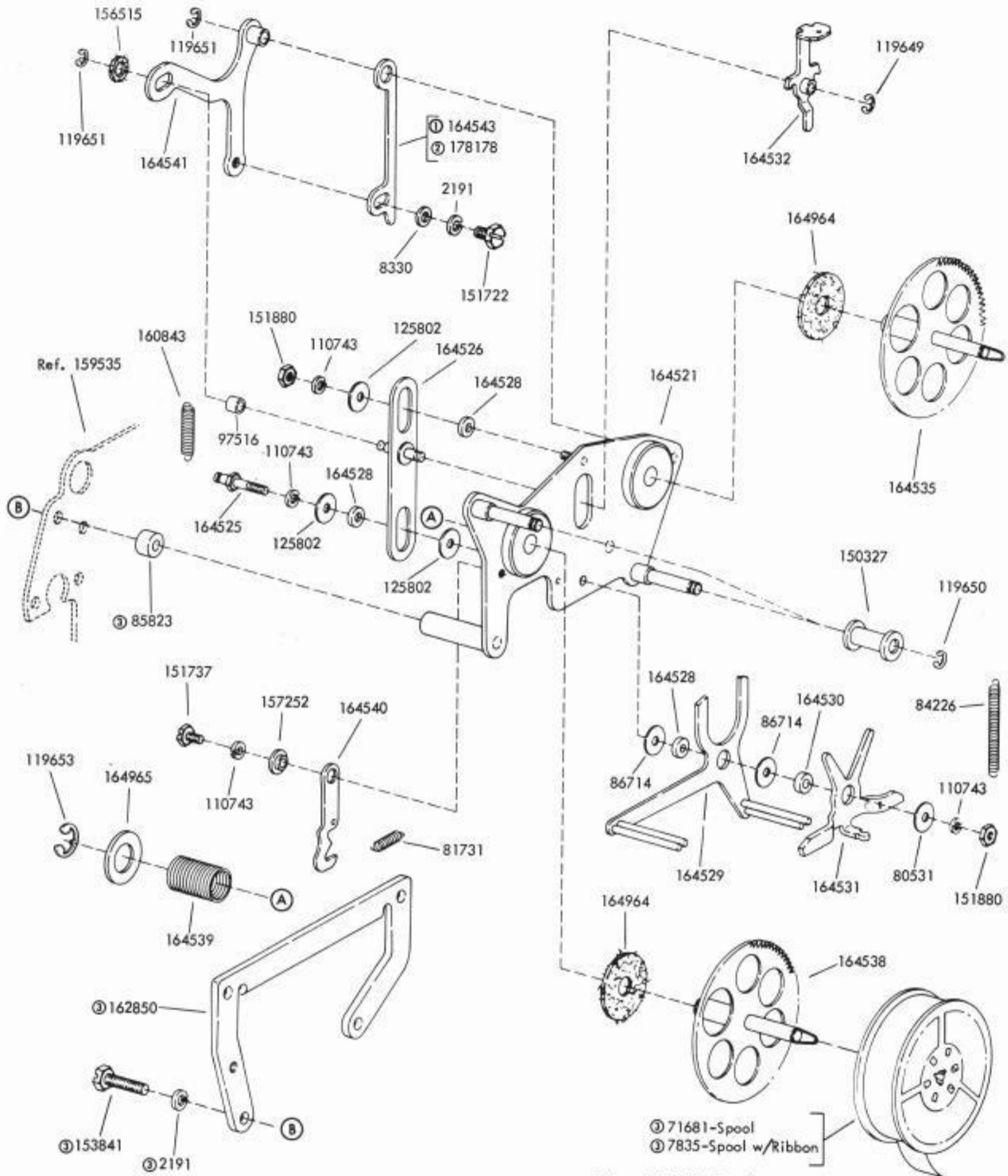


FIGURE 20. PUNCH BLOCK ASSEMBLIES



Note: A 179579 Decalcomania which show direction of Ribbon to Roller is available.
 ① Peculiar to Units Equipped with Spring Retracted Punch Pins
 ② Peculiar to Units Equipped with Power Retracted Punch Pins
 ③ Not part of 164520
 For Early Design Ribbon Feed Mechanism See Fig. 16.

FIGURE 21. 164520 RIBBON FEED ASSEMBLY

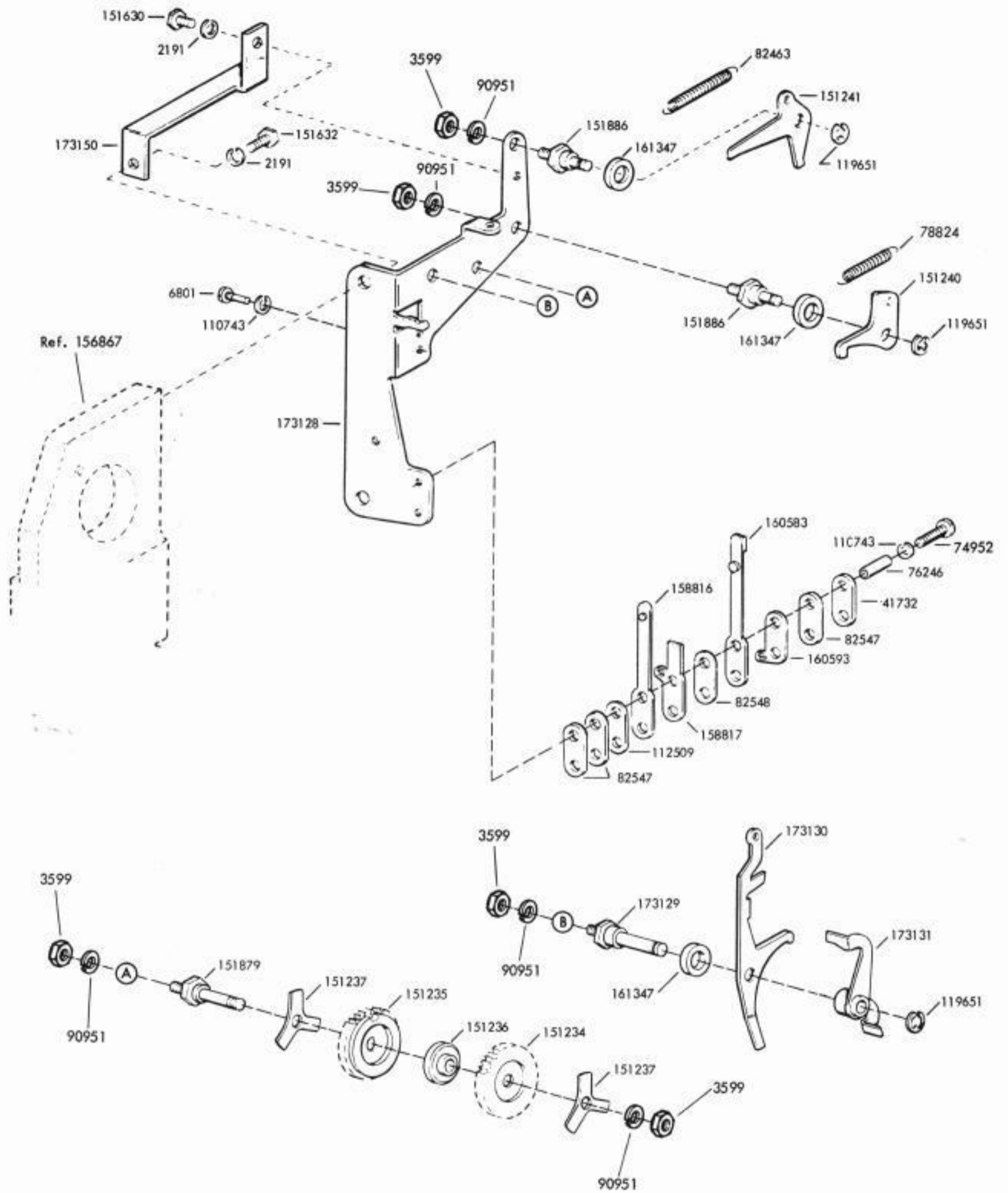
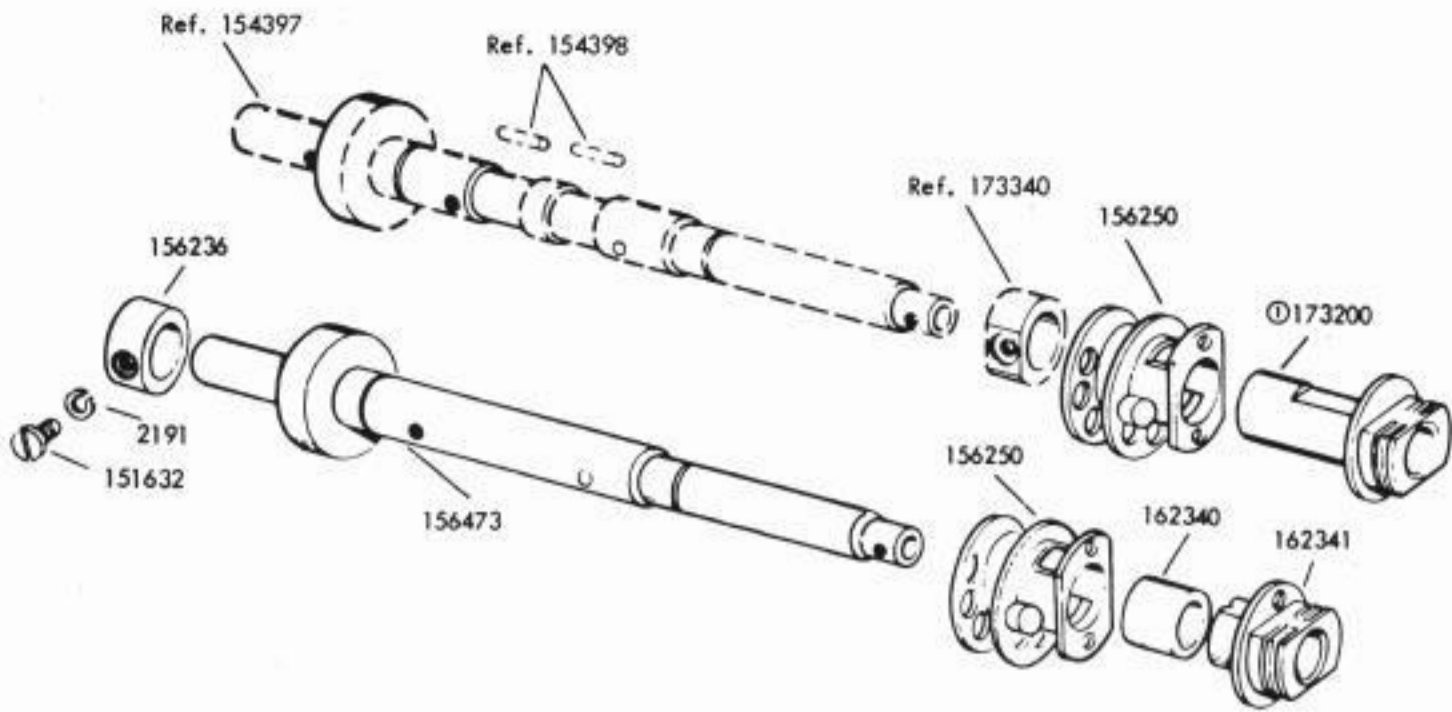
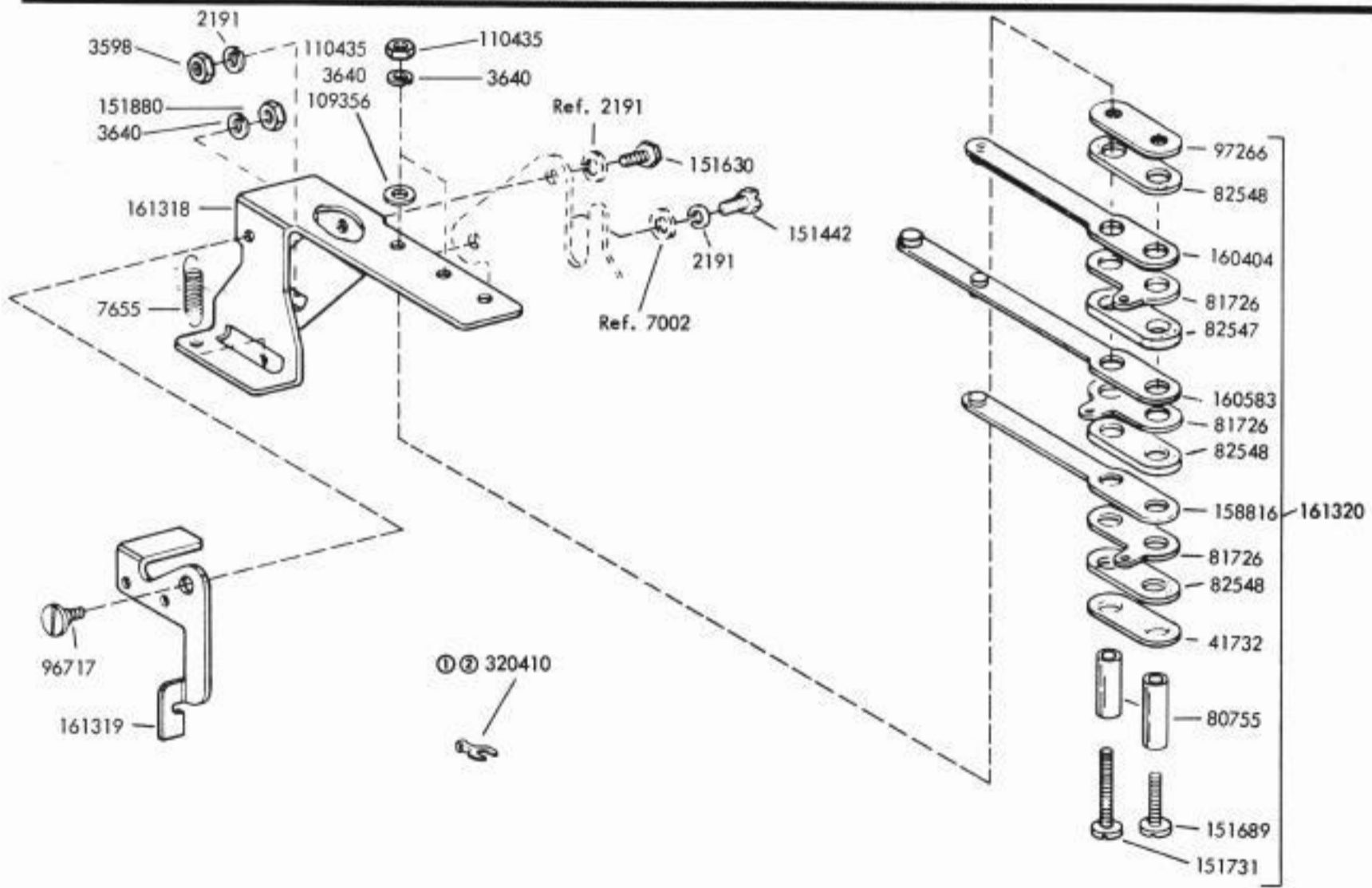


FIGURE 22. MOTOR CONTROL MECHANISM



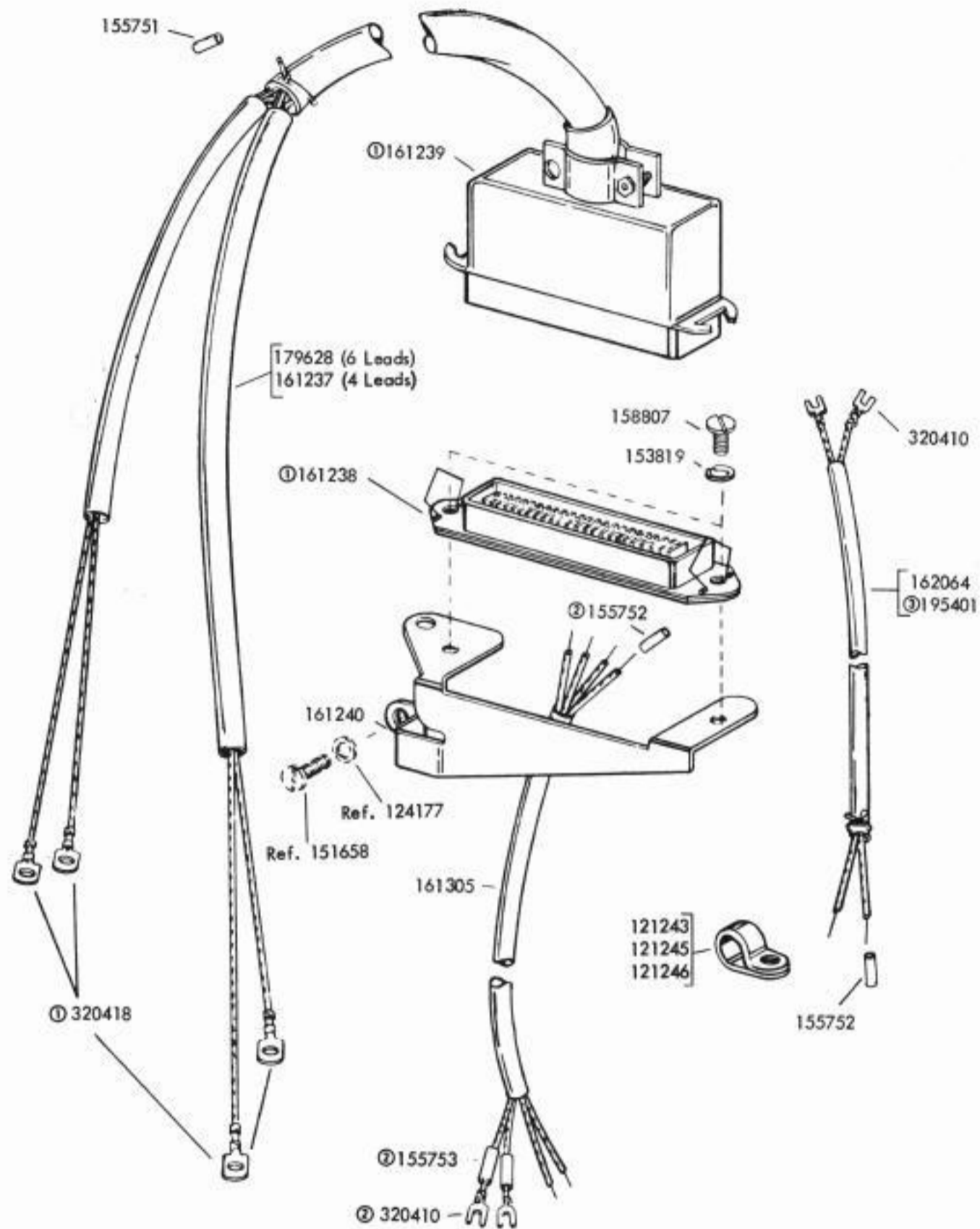
① Part of 173336 Modification Kit to Provide New Style Shaft and Bearing. Specification 59795 (See Figure 3 for additional parts)

FIGURE 23. EARLY DESIGN MAIN SHAFT MECHANISM



① 161355 Cable w/Terminal
 ② Peculiar to 161321

FIGURE 24. 161321 AND 162247 LETTERS-FIGURES CONTACT ASSEMBLY



ⓐ161237 and 179628 Cable Assemblies
 ⓑ161305 Cable Assembly
 ⓓPeculiar to Tape Printer

FIGURE 25. CABLES

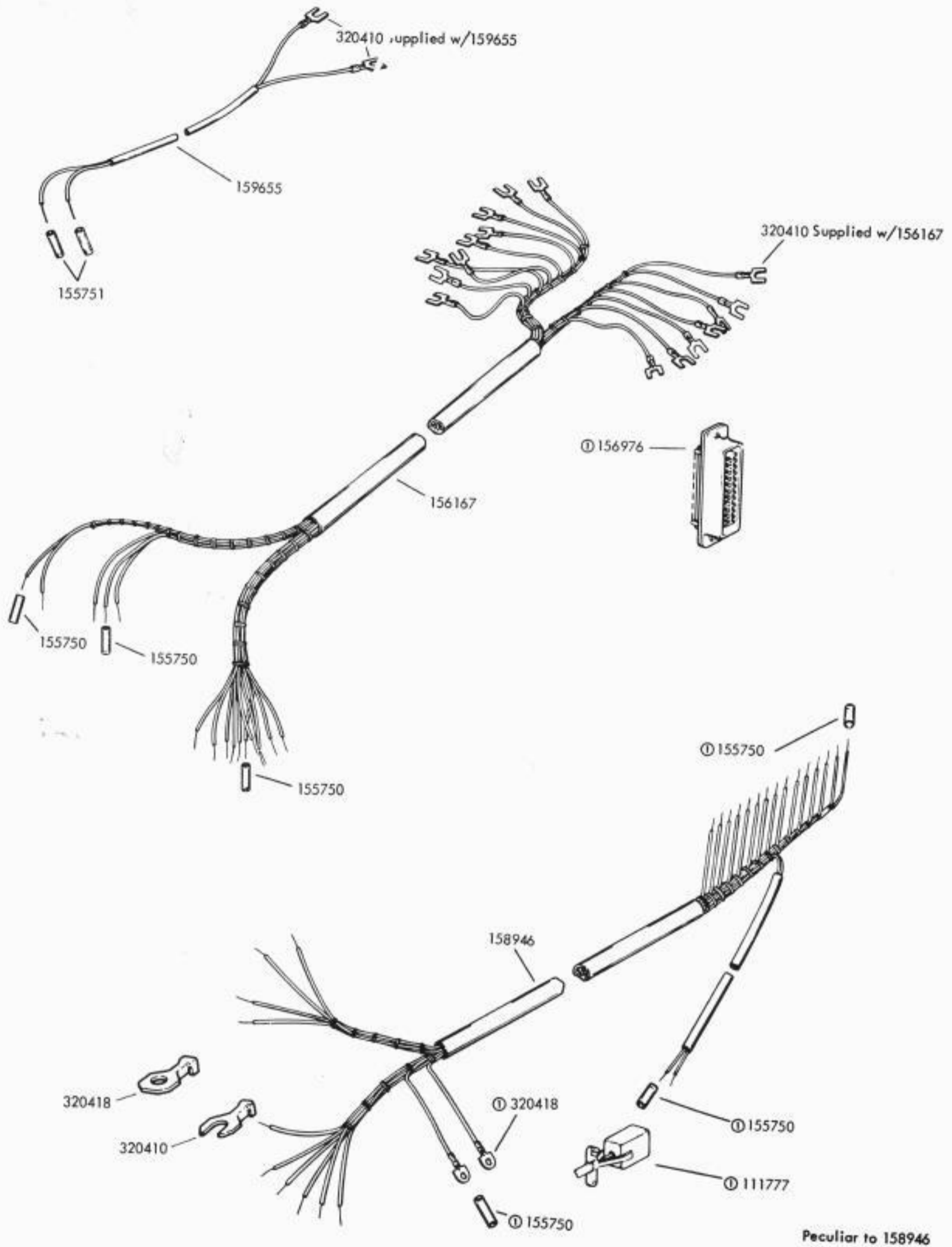


FIGURE 26. CABLES (Continued)

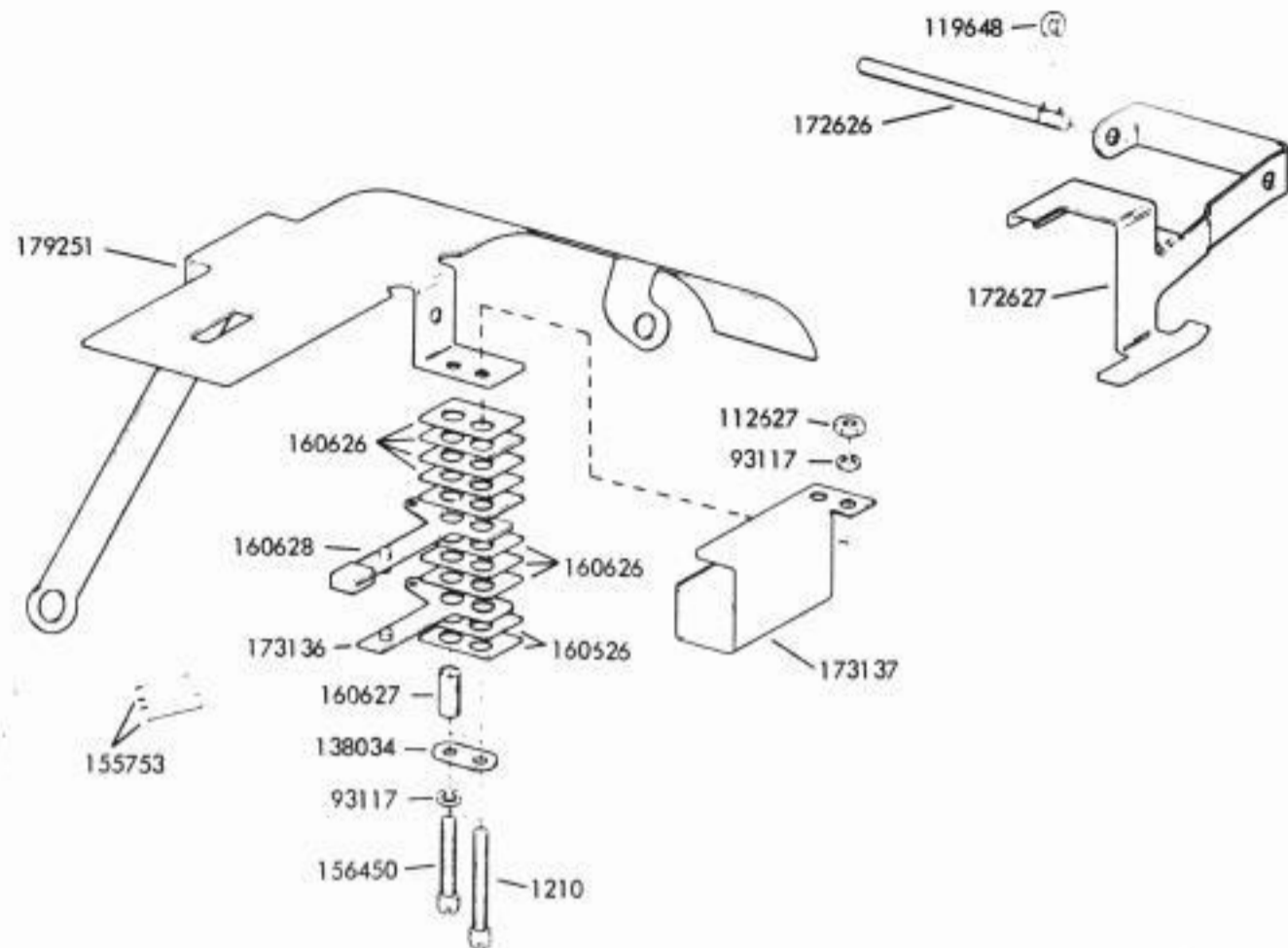
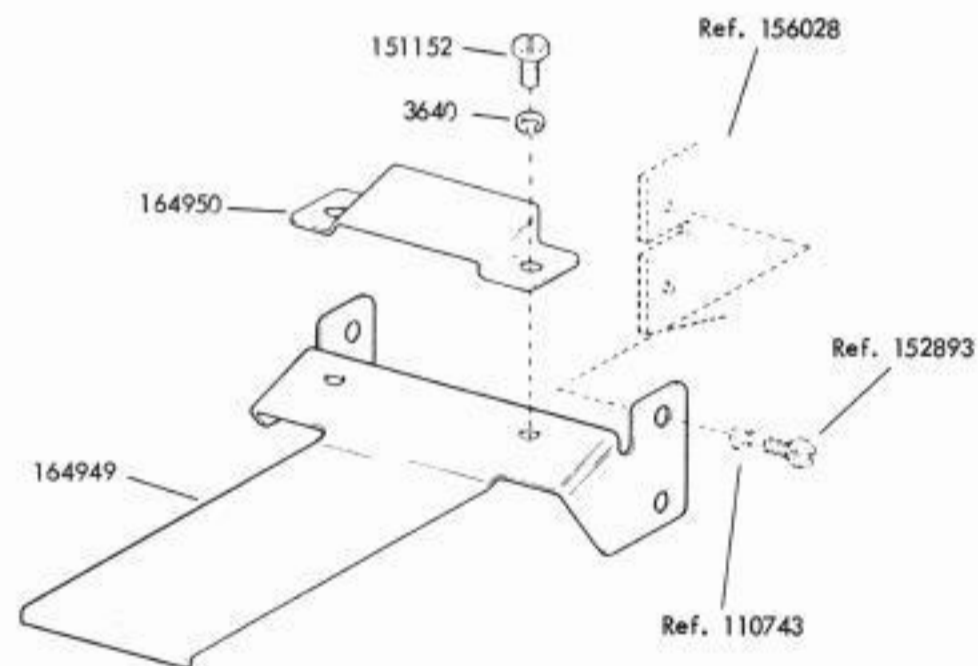


FIGURE 27. 173T35 TAPE ABSENT CONTACT BRACKET ASSEMBLY



Specification 500135

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

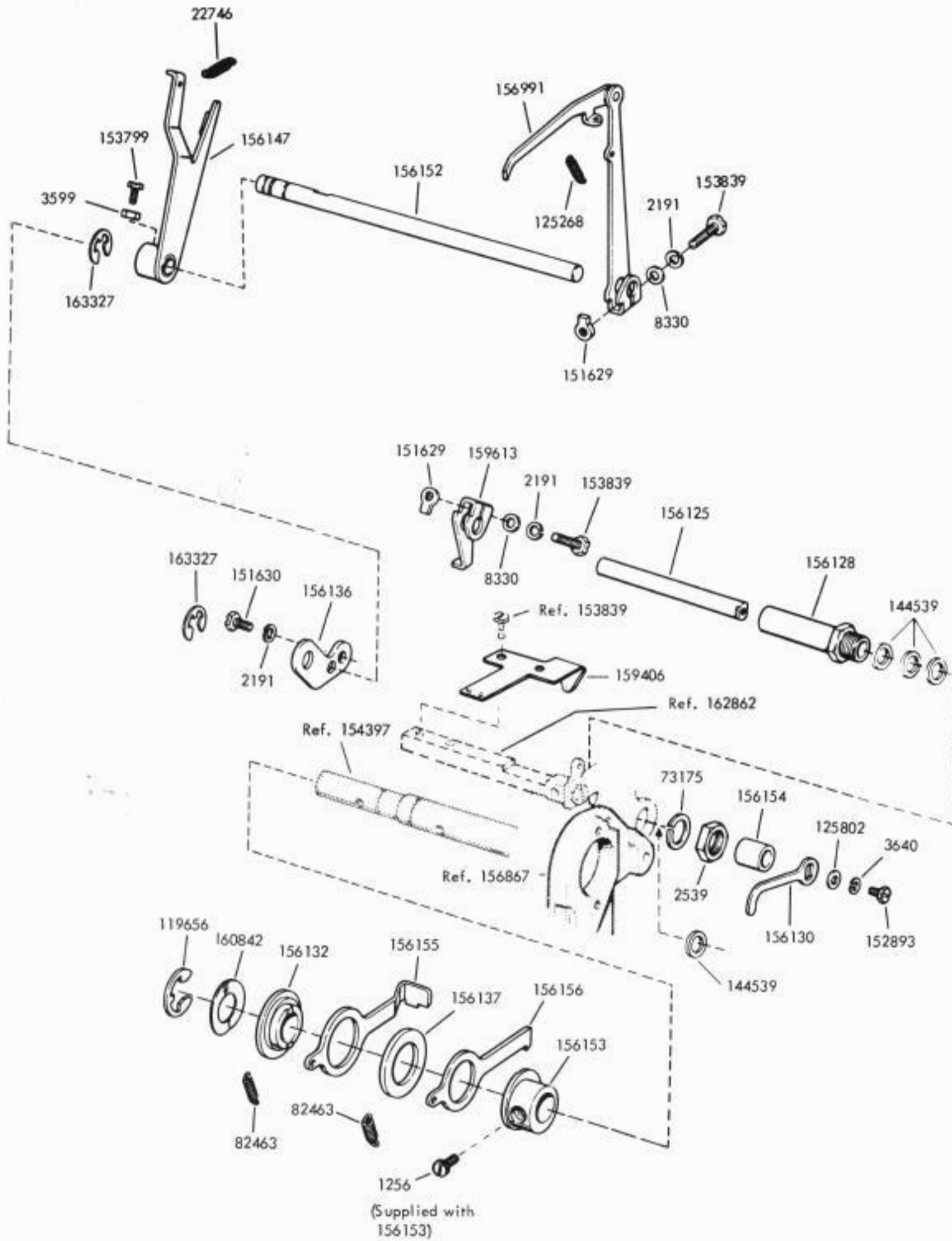


FIGURE 29. EARLY DESIGN MODIFICATION KITS FOR BLANK TAPE FEED-OUT
(No Longer Compatible with Fully Perforated Tape)

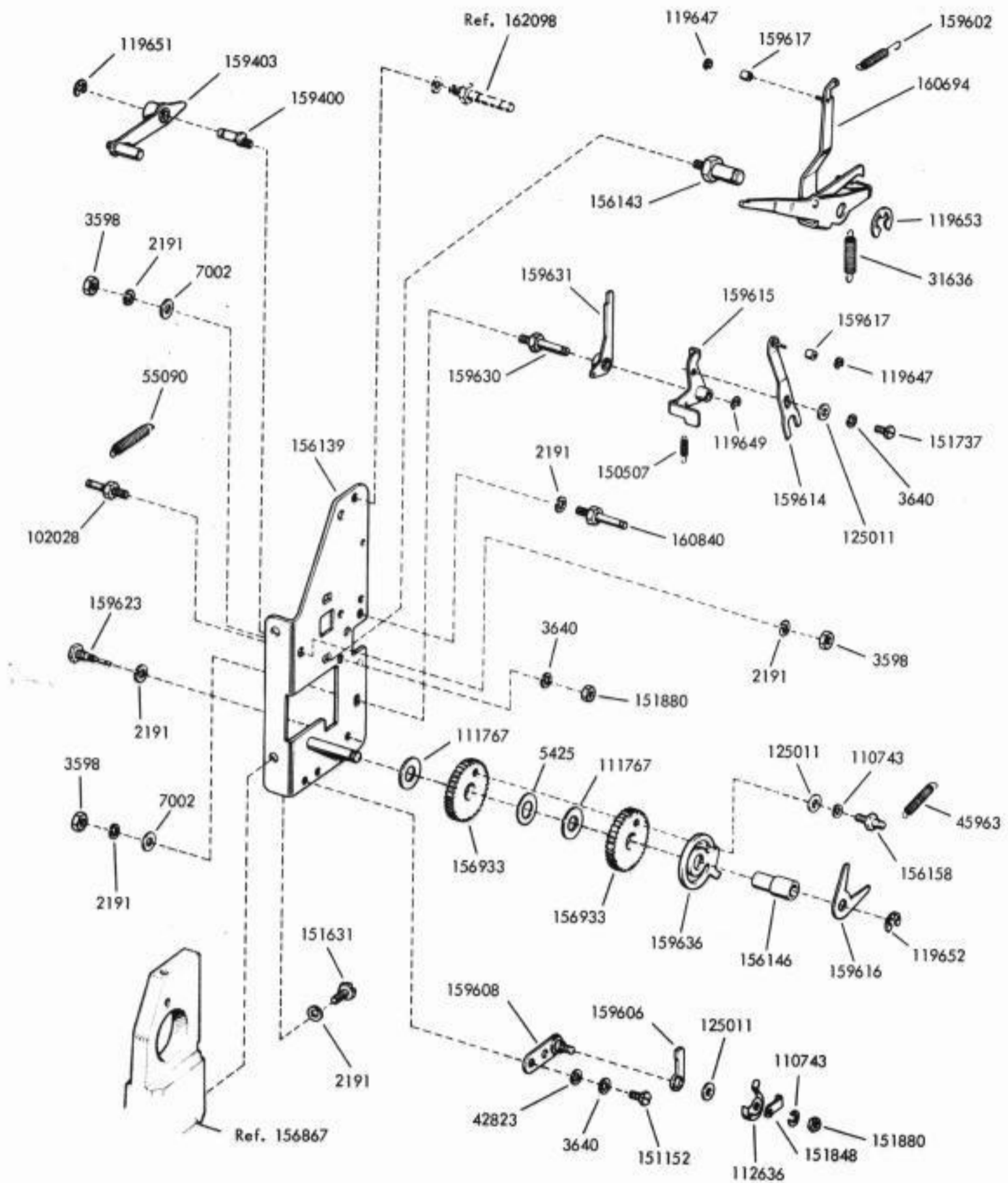


FIGURE 30. EARLY DESIGN MODIFICATION KITS FOR BLANK TAPE FEED-OUT.
(No Longer Compatible with Fully Perforated Tape) Continued

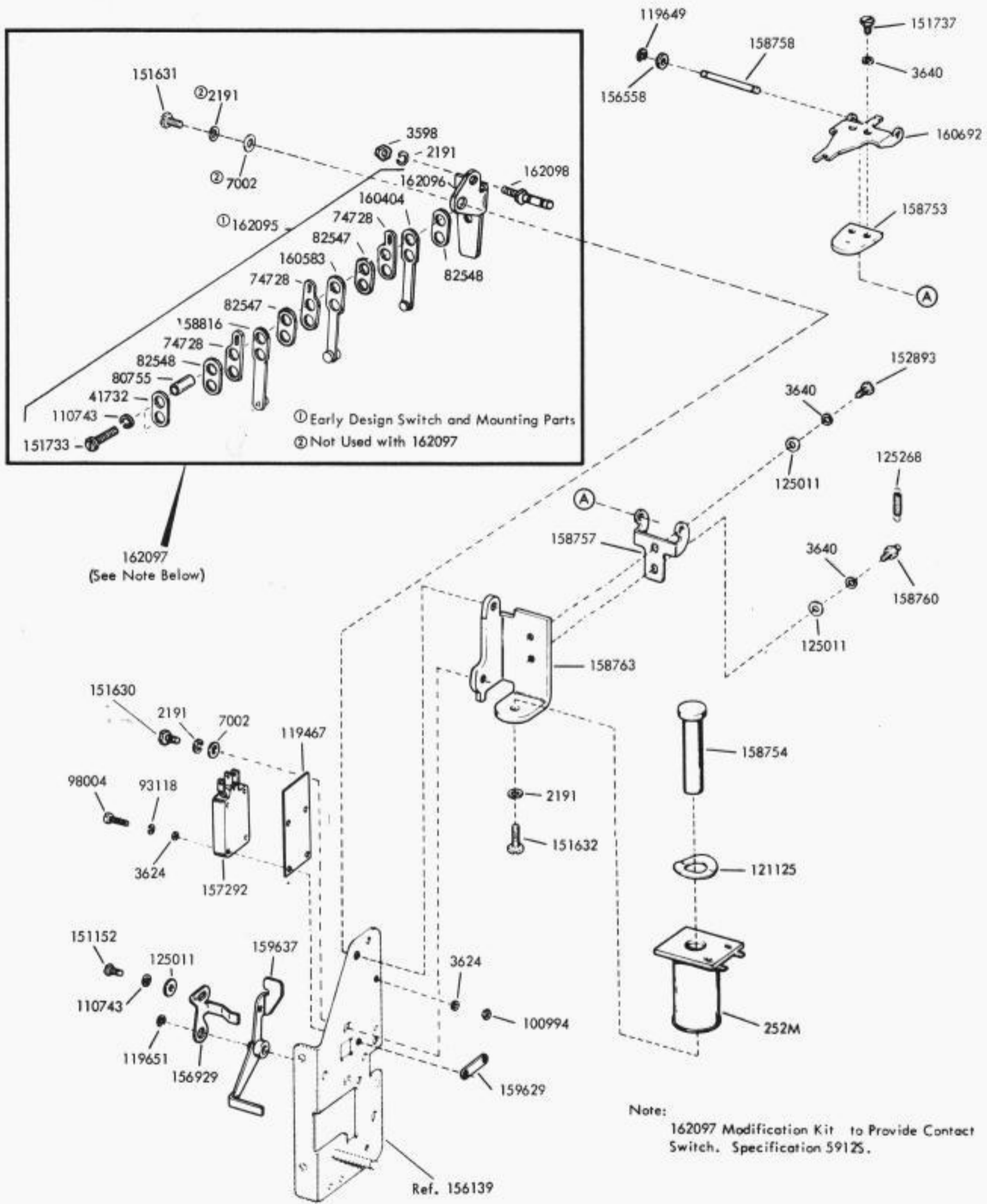


FIGURE 31. EARLY DESIGN MODIFICATION KITS FOR BLANK TAPE FEED-OUT.
(No Longer Compatible with Fully Perforated Tape) Continued.

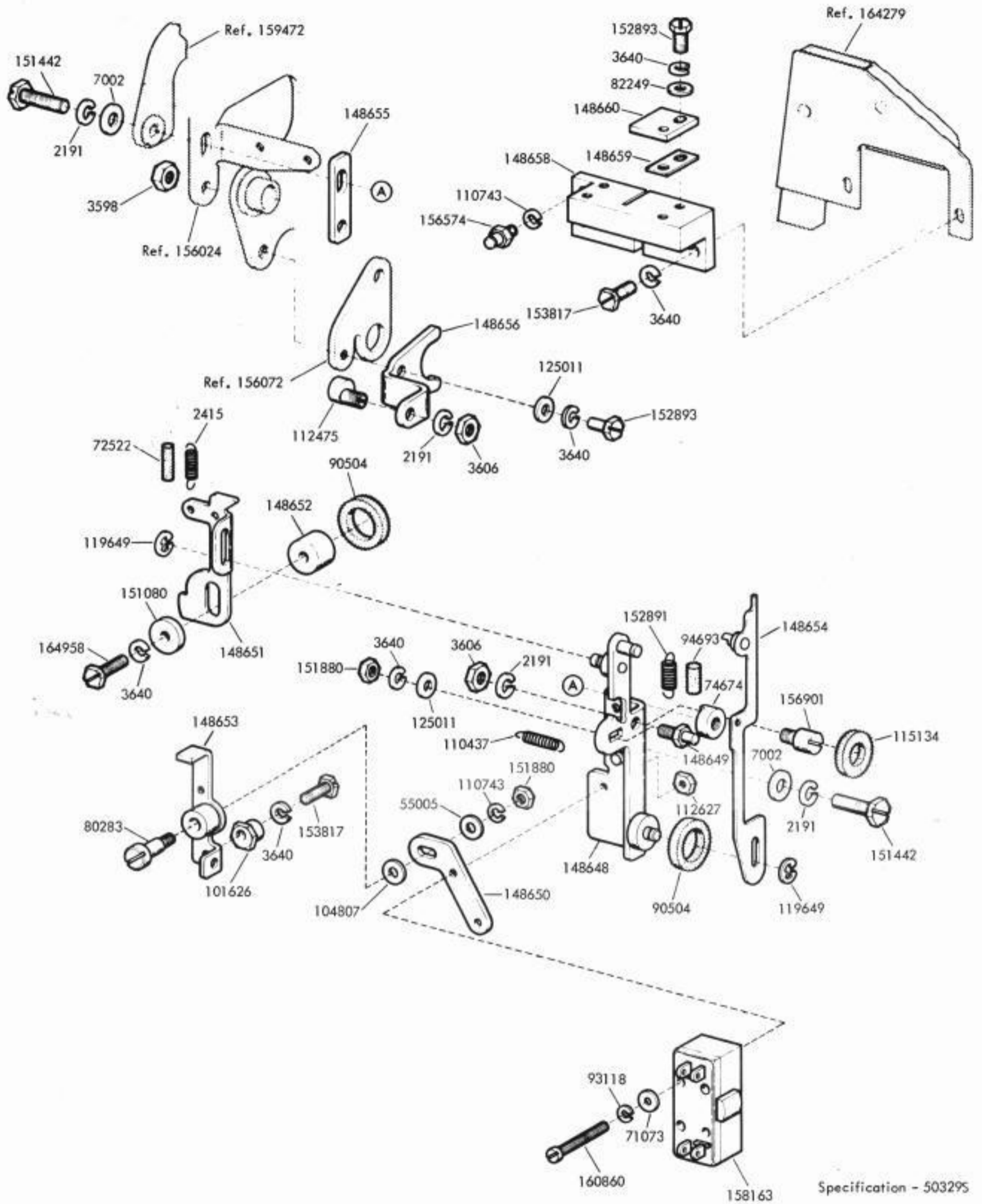


FIGURE 32. 148630 MODIFICATION KIT TO PROVIDE TAPE IN MOTION MECHANISM

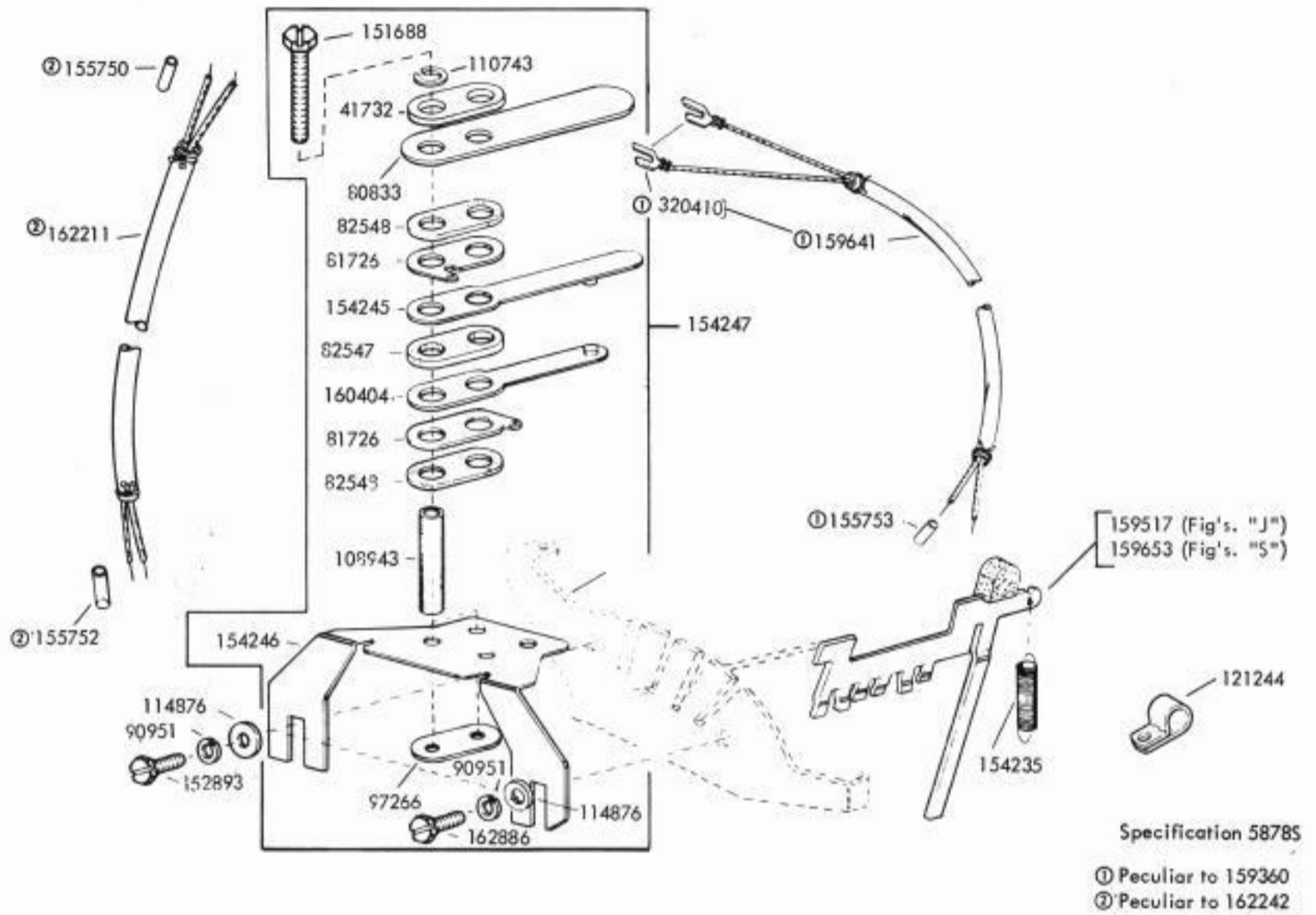


FIGURE 35. 159360 AND 162242 MODIFICATION KITS TO ADD SIGNAL BELL CONTACT

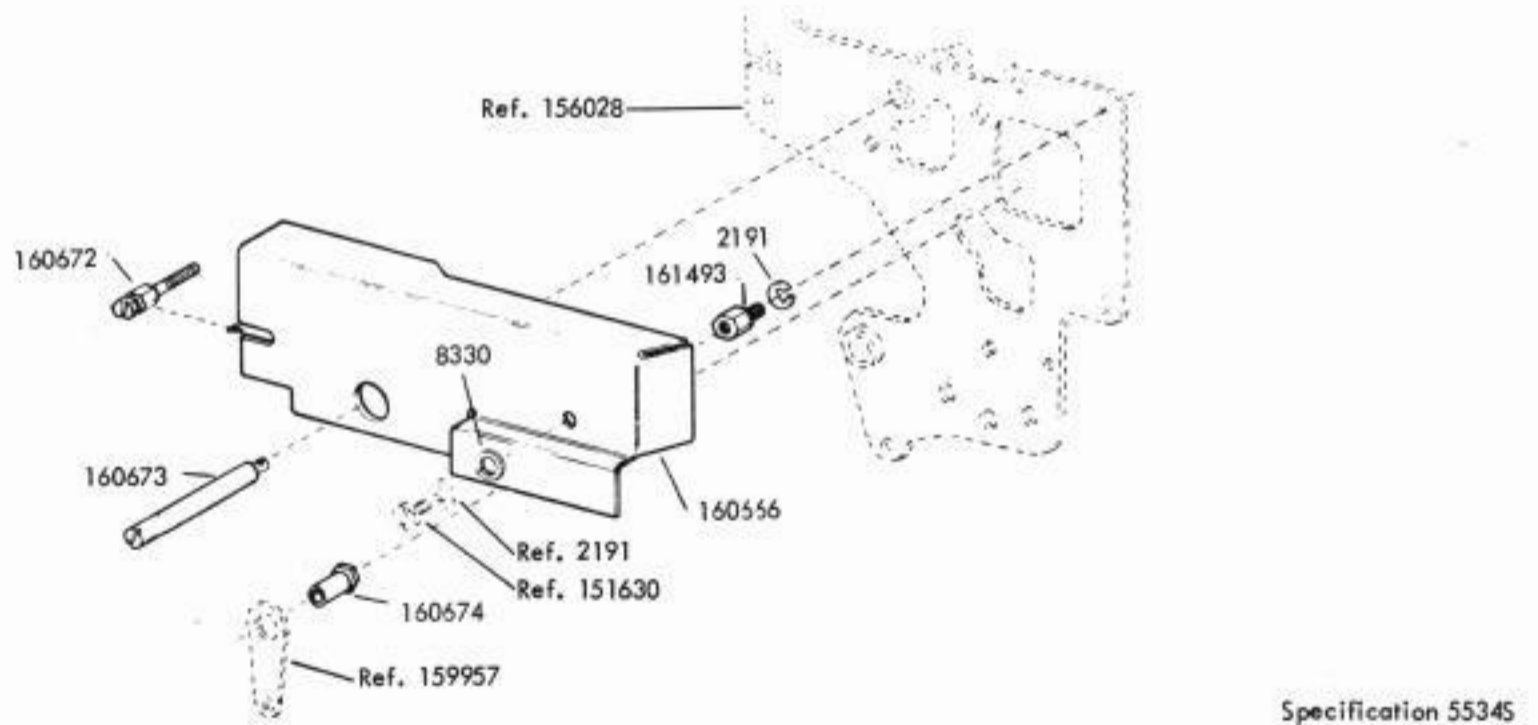
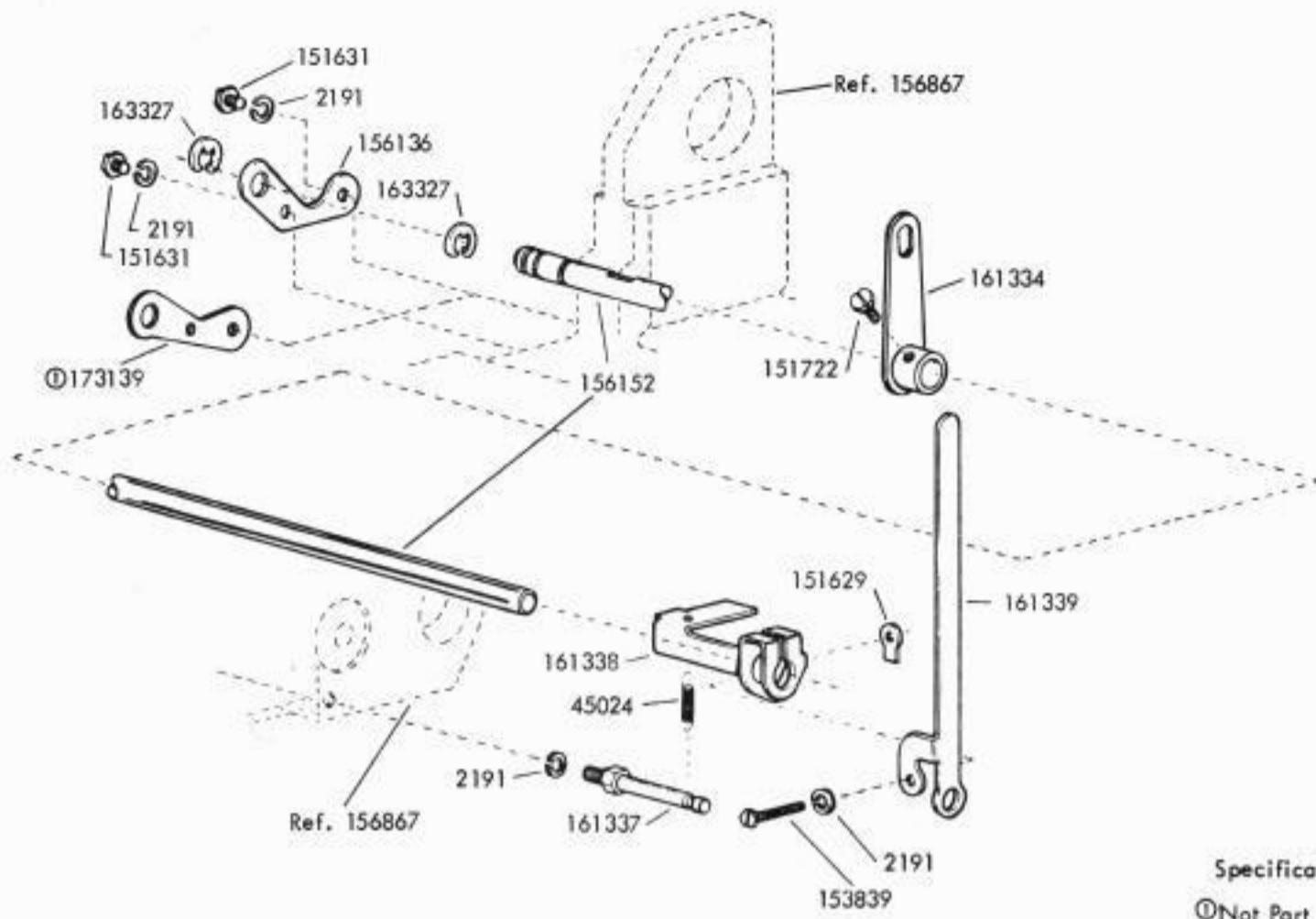
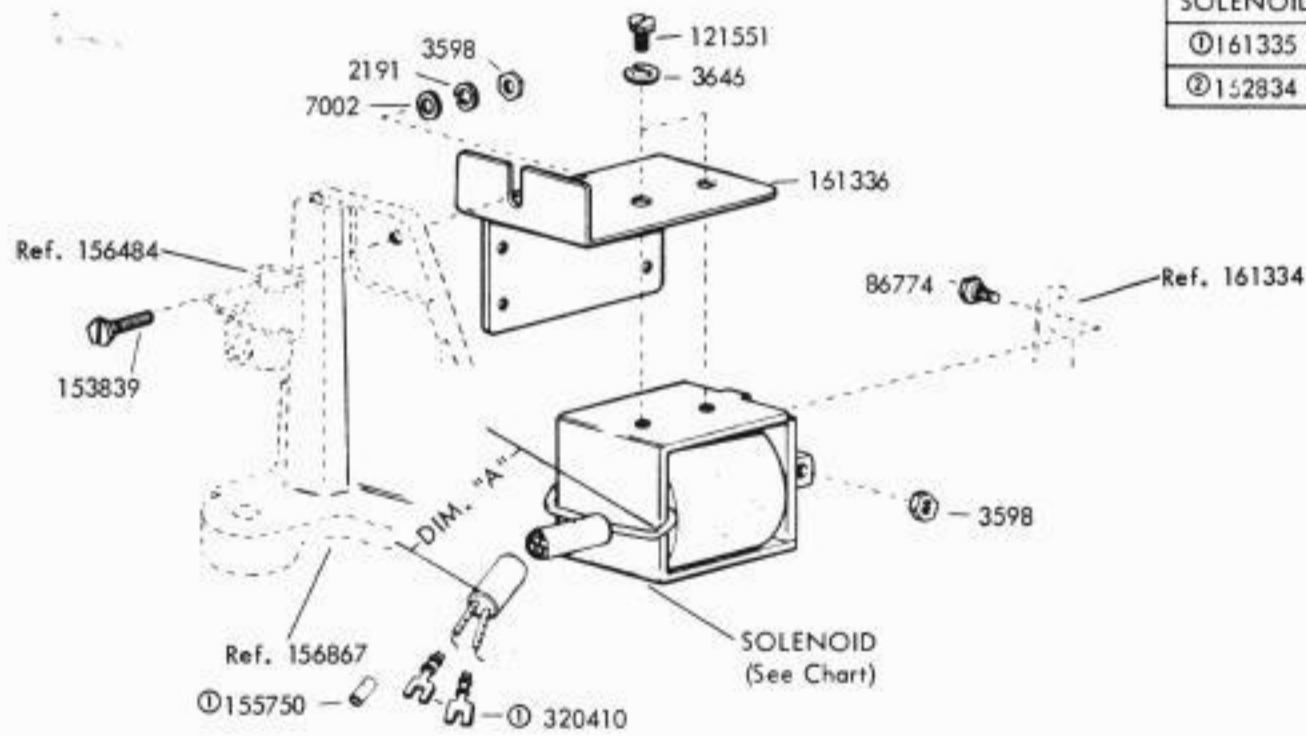


FIGURE 36. 160881 MODIFICATION KIT TO ADD GUARD FOR BACKSPACE MECHANISM (Printing on Edge of Tape)



Specification 58895
 Ⓞ Not Part of 161340

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



SOLENOID CHART	
SOLENOID	DIM. "A"
Ⓞ 161335	12-3"
Ⓜ 152834	3-1/2"

161341 - Specification 58895
 162432 - Specification 58895

Ⓞ Peculiar to 161341
 Ⓜ Peculiar to 152432

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

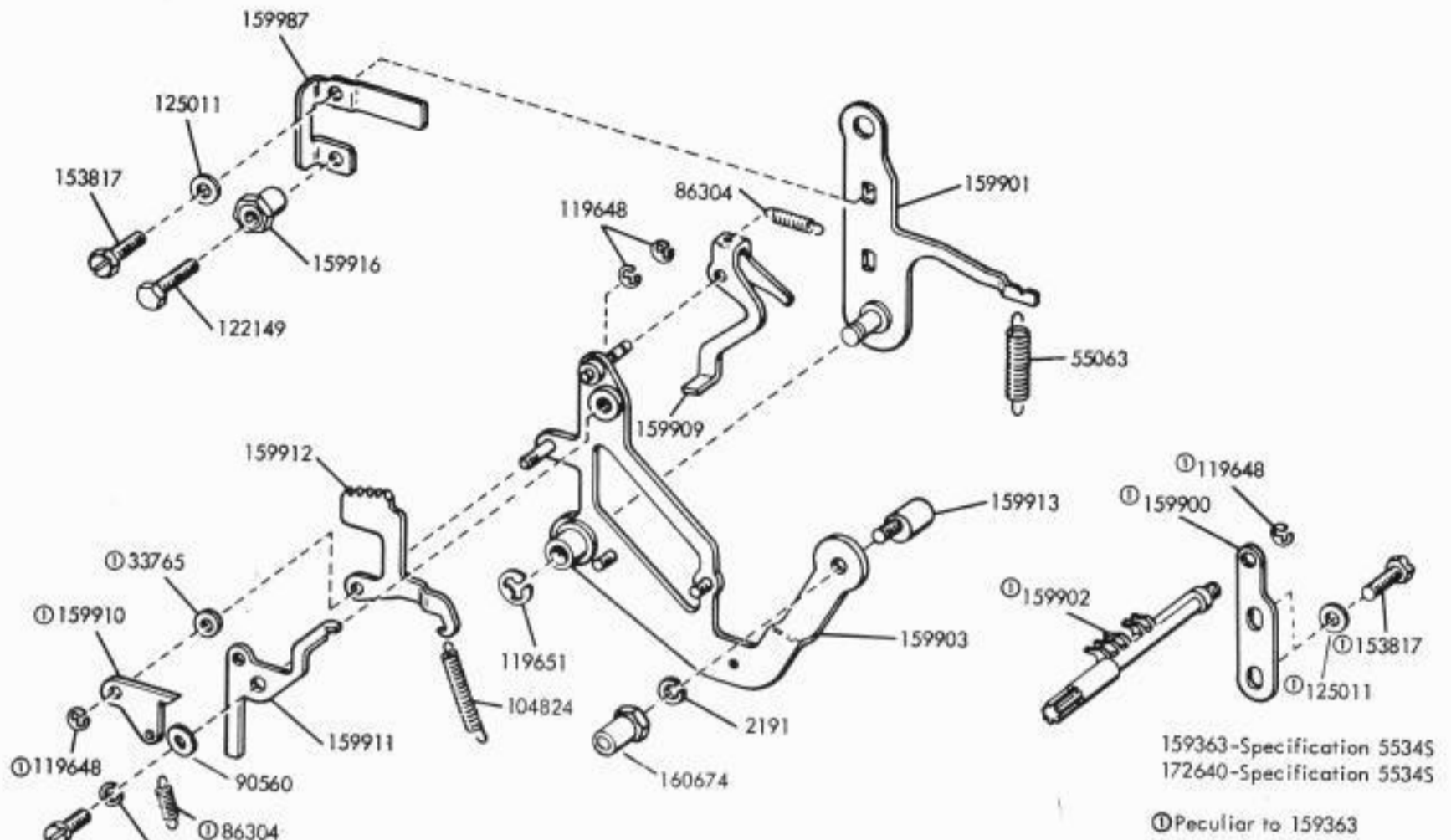


FIGURE 39. 159363 (CHADLESS TAPE) AND 172640 (FULLY PERFORATED TAPE) MODIFICATION KITS TO ADD MANUAL BACKSPACE (Printing On Edge of Tape)

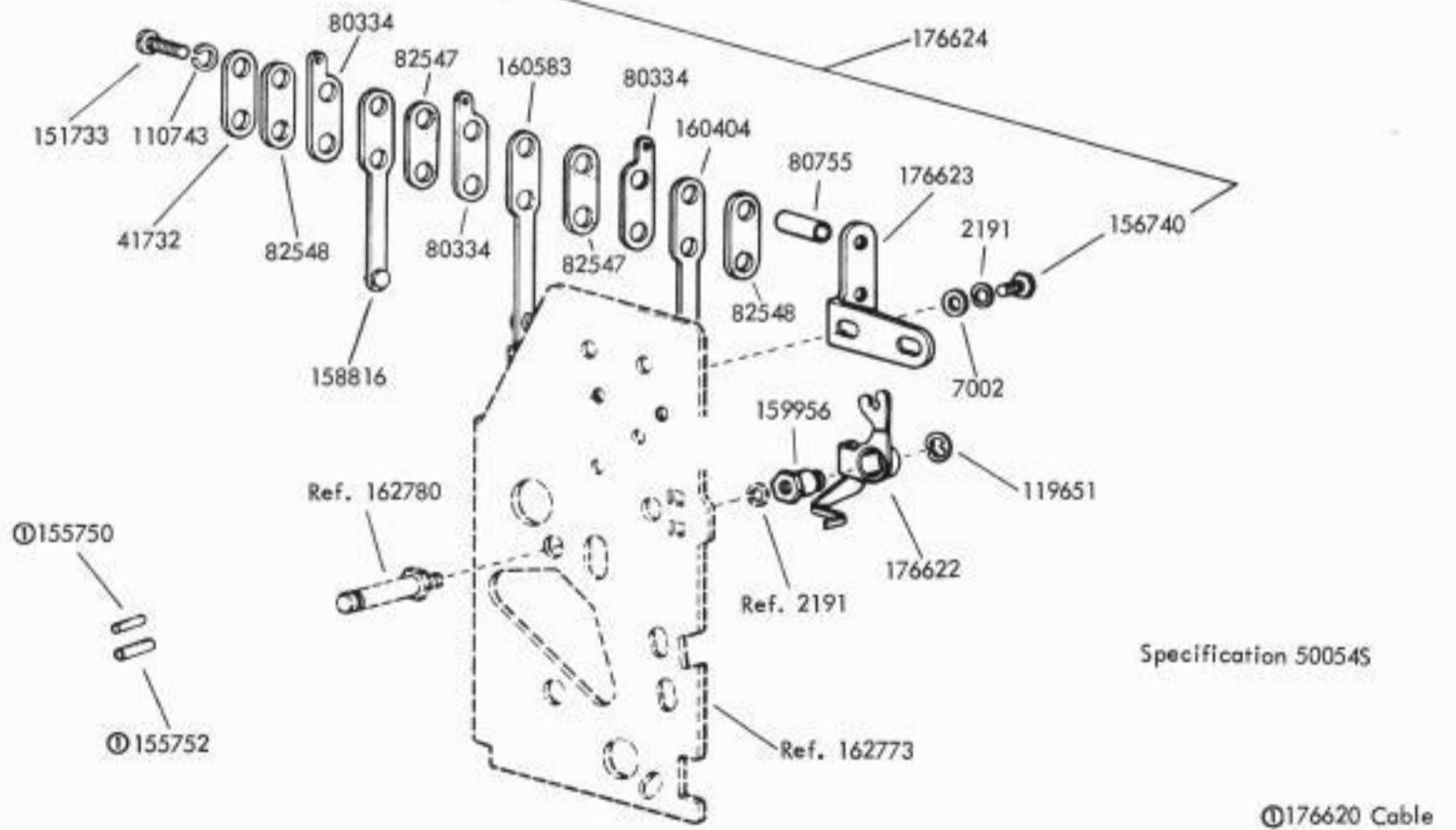


FIGURE 40. 176621 MODIFICATION KIT TO PROVIDE END OF FEED-OUT TIMING CONTACT FOR 176628 LETTERS TAPE FEED-OUT.

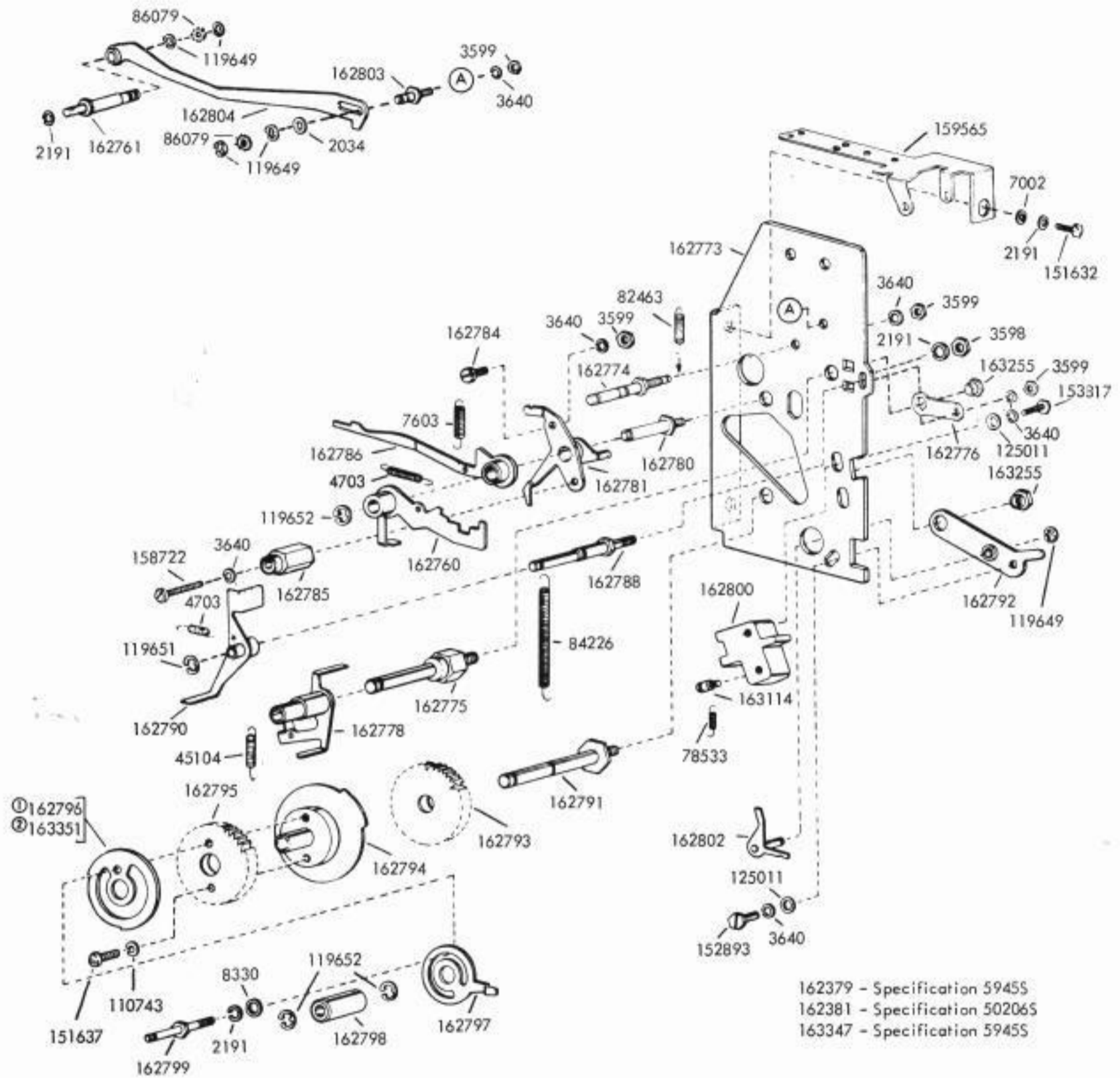


FIGURE 42. 162379 AND 163347 MODIFICATION KITS TO ADD AUTOMATIC NON-INTERFERING TAPE FEED-OUT AND 162381 MODIFICATION KIT FOR AUTOMATIC NON-INTERFERING BLANK TAPE FEED-OUT.

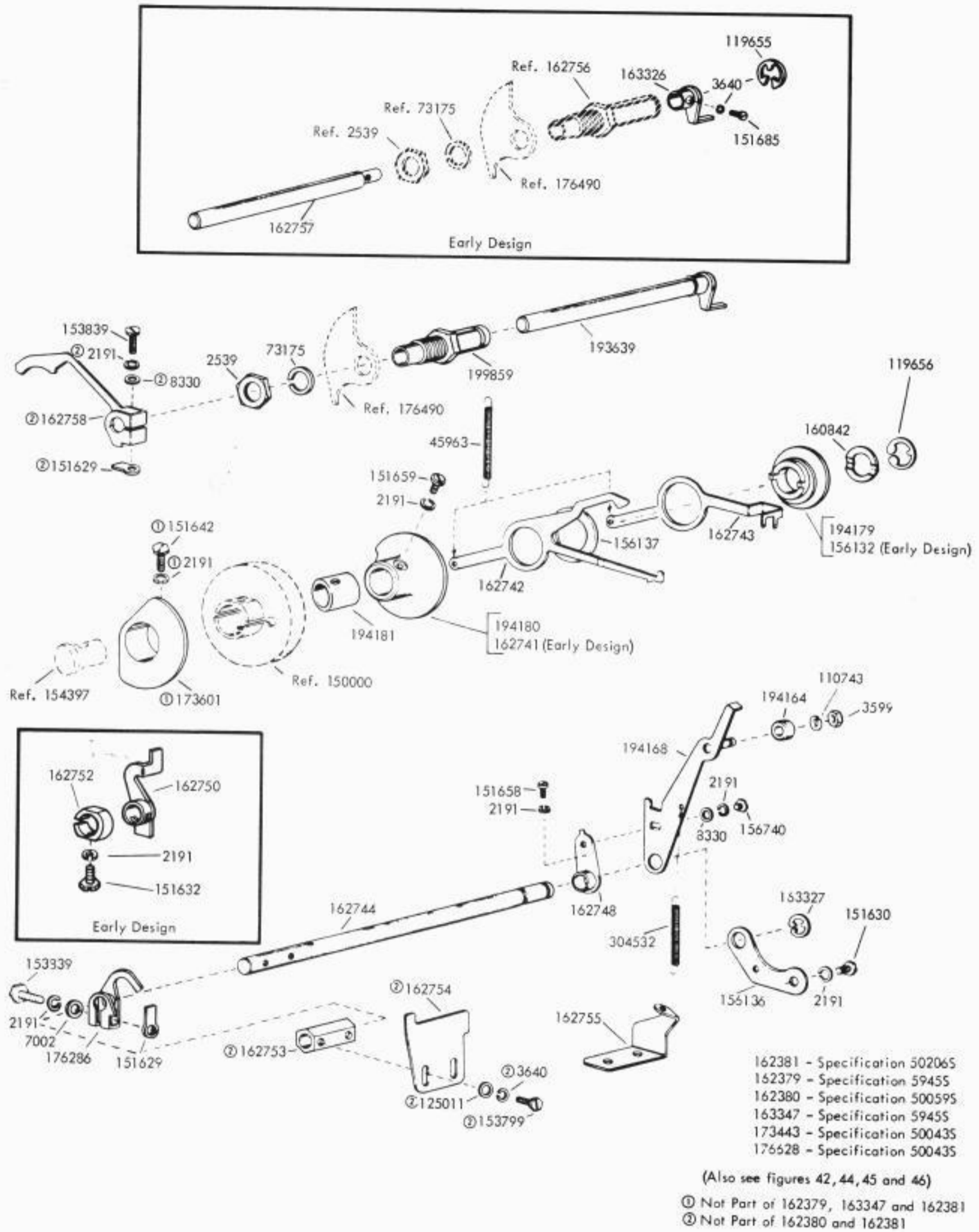


FIGURE 43. 162379 (AUTOMATIC LETTERS), 162380 (REMOTE CONTROL BLANK), 163347 (AUTOMATIC LETTERS), 162381 (AUTOMATIC BLANK) 173443 (REMOTE CONTROL LETTERS), AND (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED-OUT.

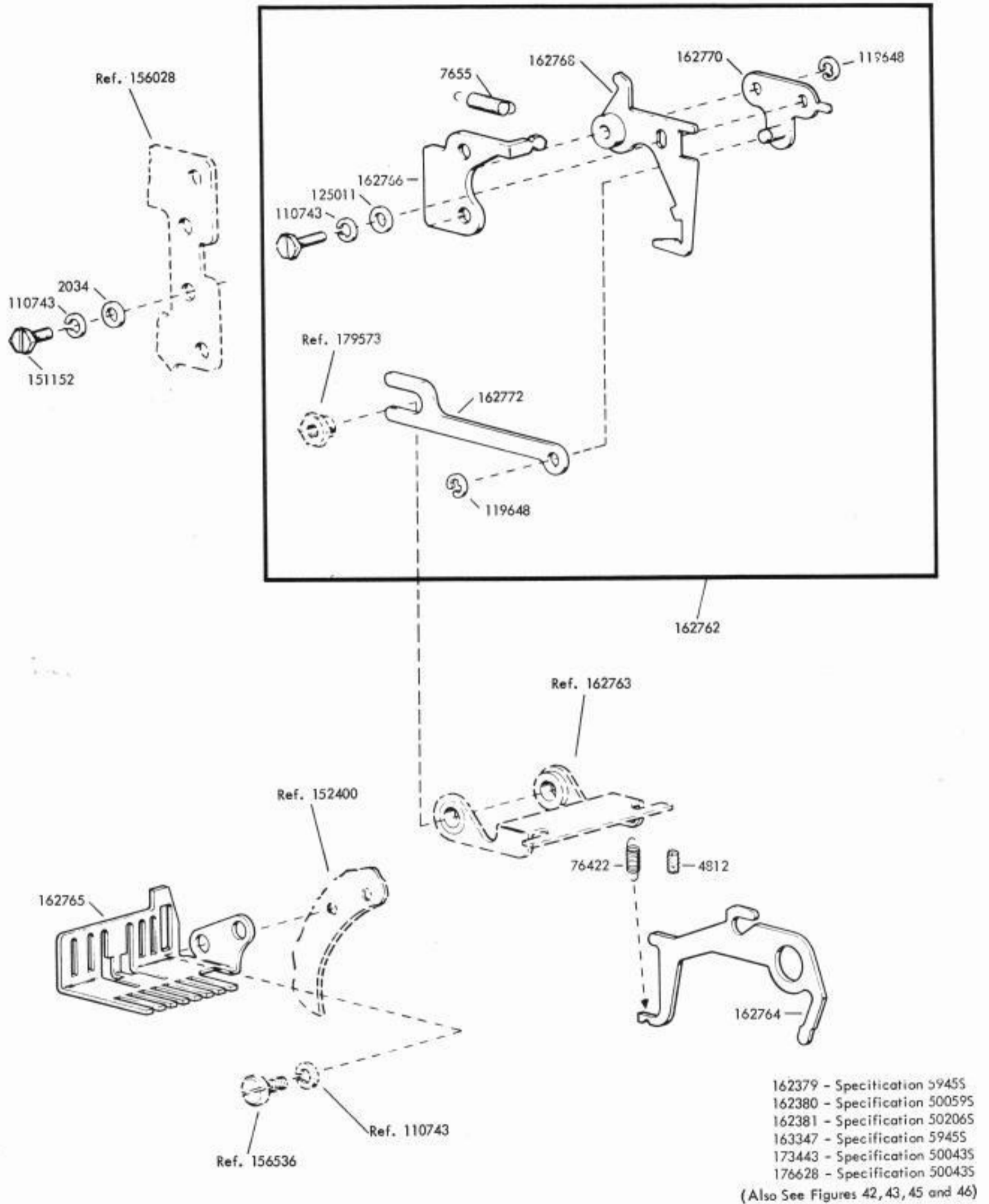
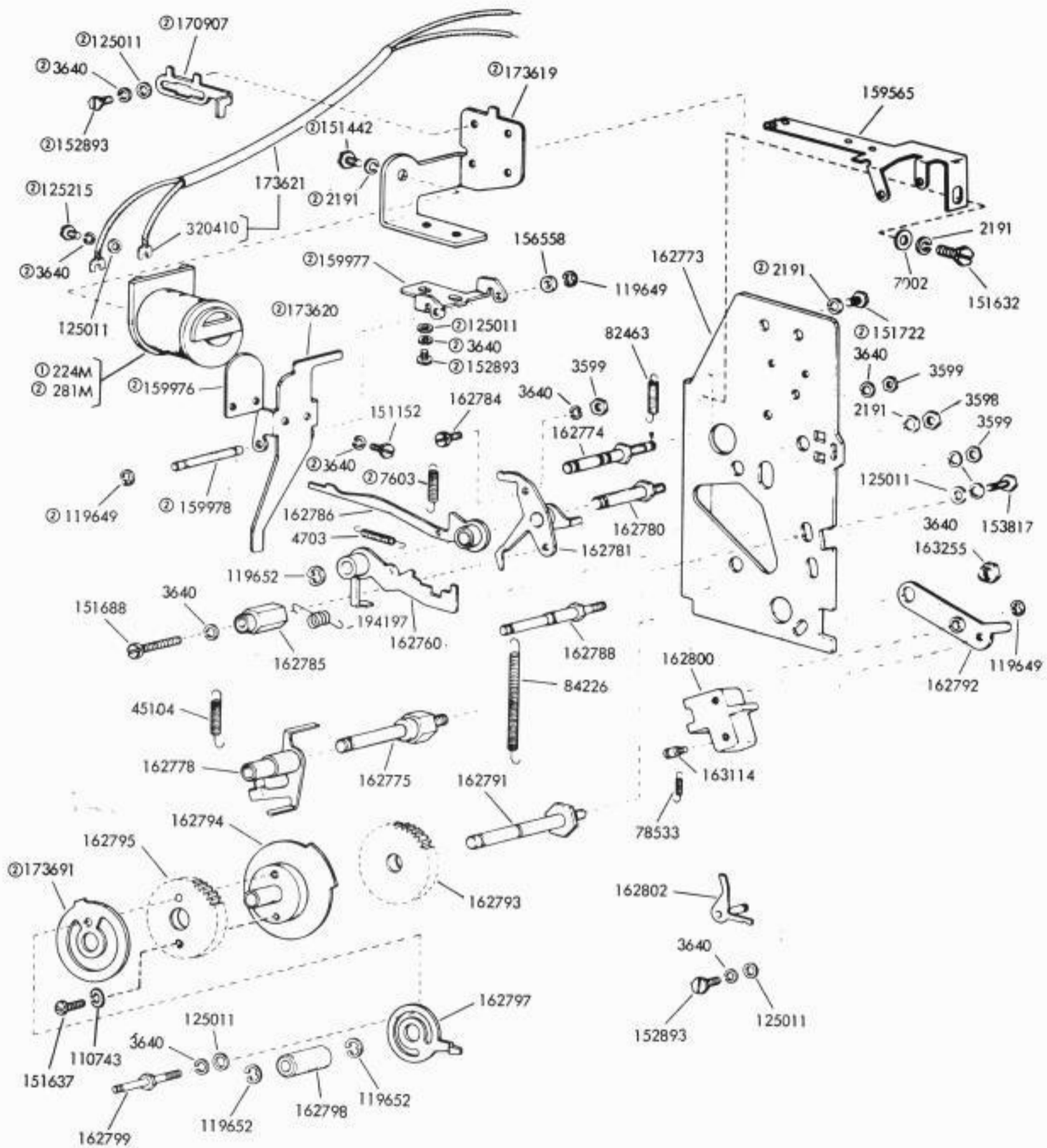


FIGURE 44. 162379 (AUTOMATIC LETTERS), 162380 (REMOTE CONTROL BLANK), 163347 (AUTOMATIC LETTERS), 162381 (AUTOMATIC BLANK), 173443 (REMOTE CONTROL LETTERS) AND 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED-OUT. (Continued)



- ① Peculiar to 176628
 ② Peculiar to 198070
 198070 - Specification 57725
 162380 - Specification 500595
 173443 - Specification 500435
 176628 - Specification 500435

(Also See Figures 43, 44 and 45)

FIGURE 45. 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.

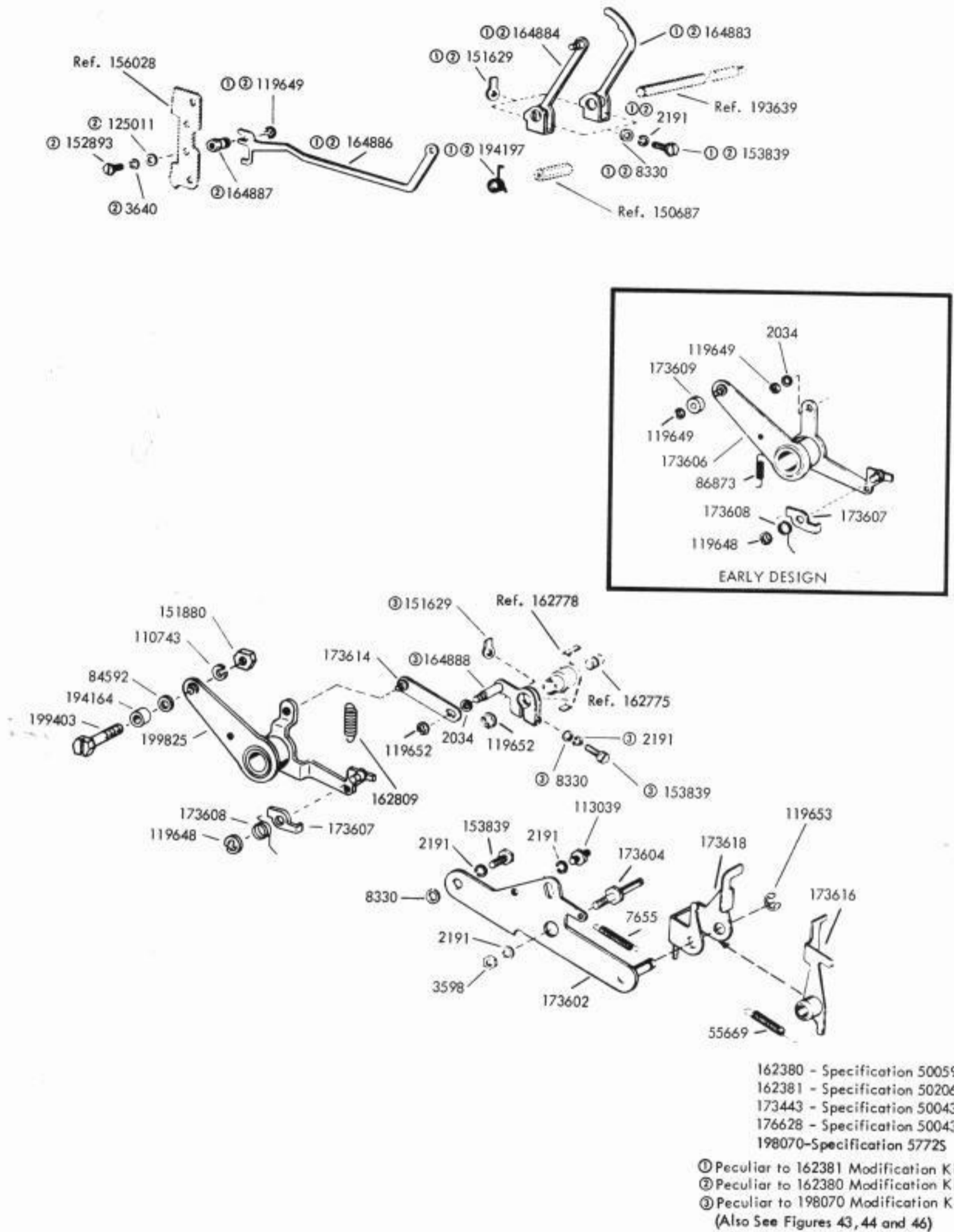


FIGURE 46. 162380 (BLANK), 162381 (AUTOMATIC BLANK), 173443 (LETTERS) AND 176628 (LETTERS) MODIFICATION KITS TO ADD REMOTE CONTROL NON-INTERFERING TAPE FEED-OUT AND 198070 BLANK FEED-OUT TO MODEL 28 REPERFORATOR (Continued)

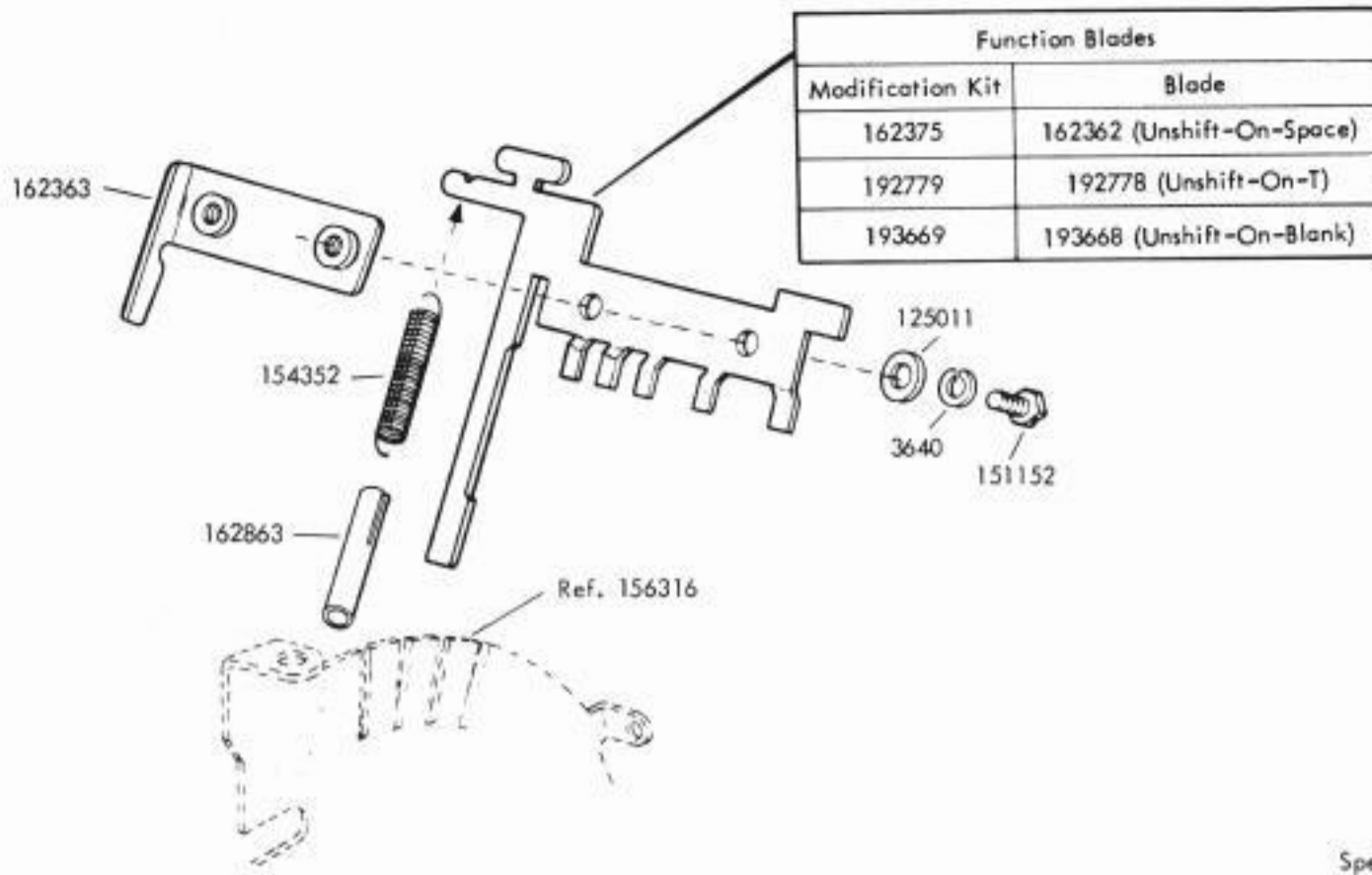
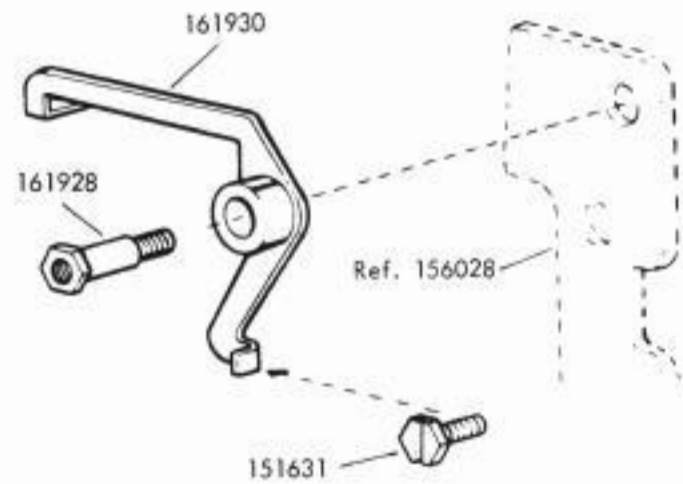
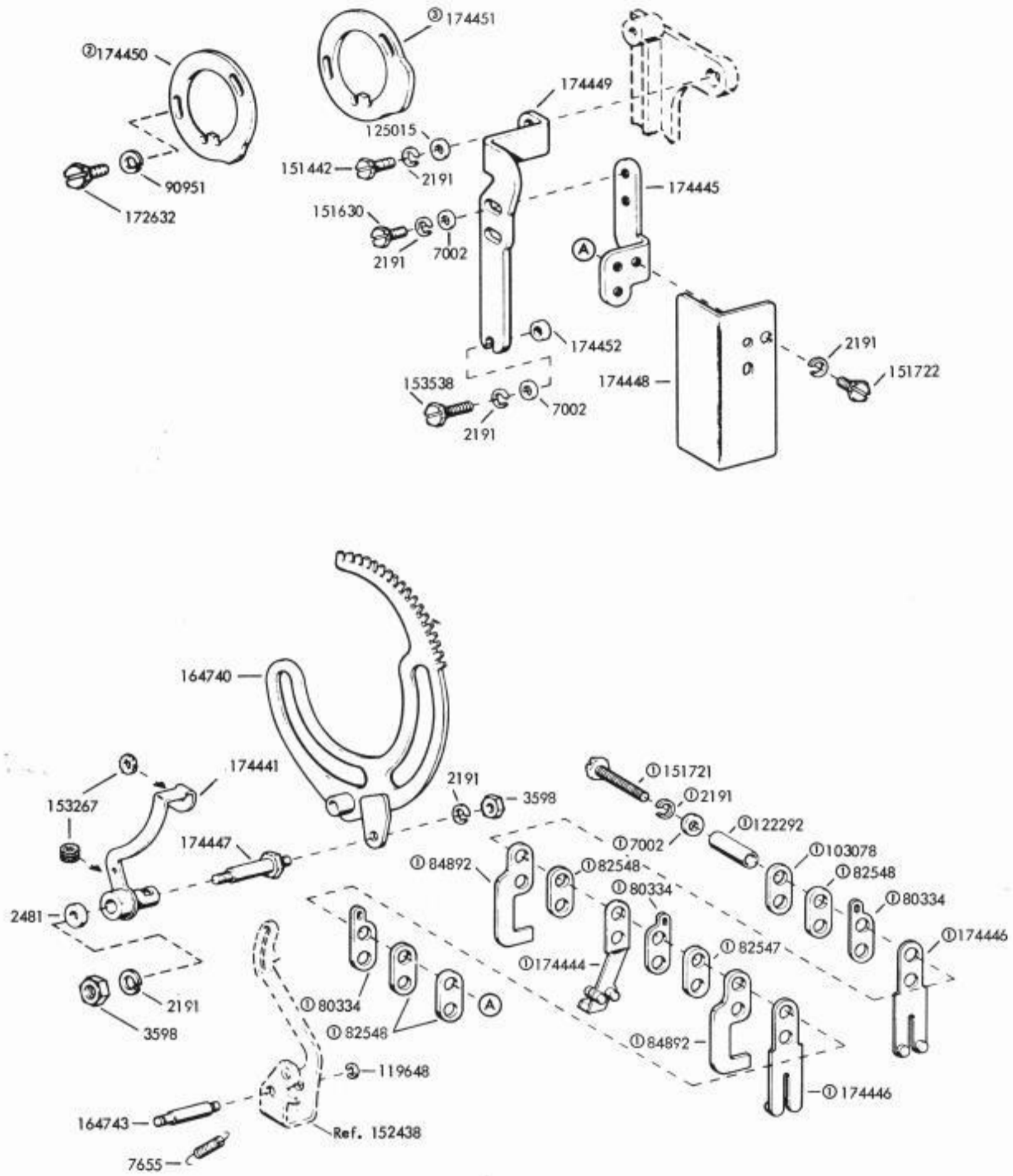


FIGURE 47. MODIFICATION KITS TO PROVIDE UNSHIFT FUNCTION



Specification 55345

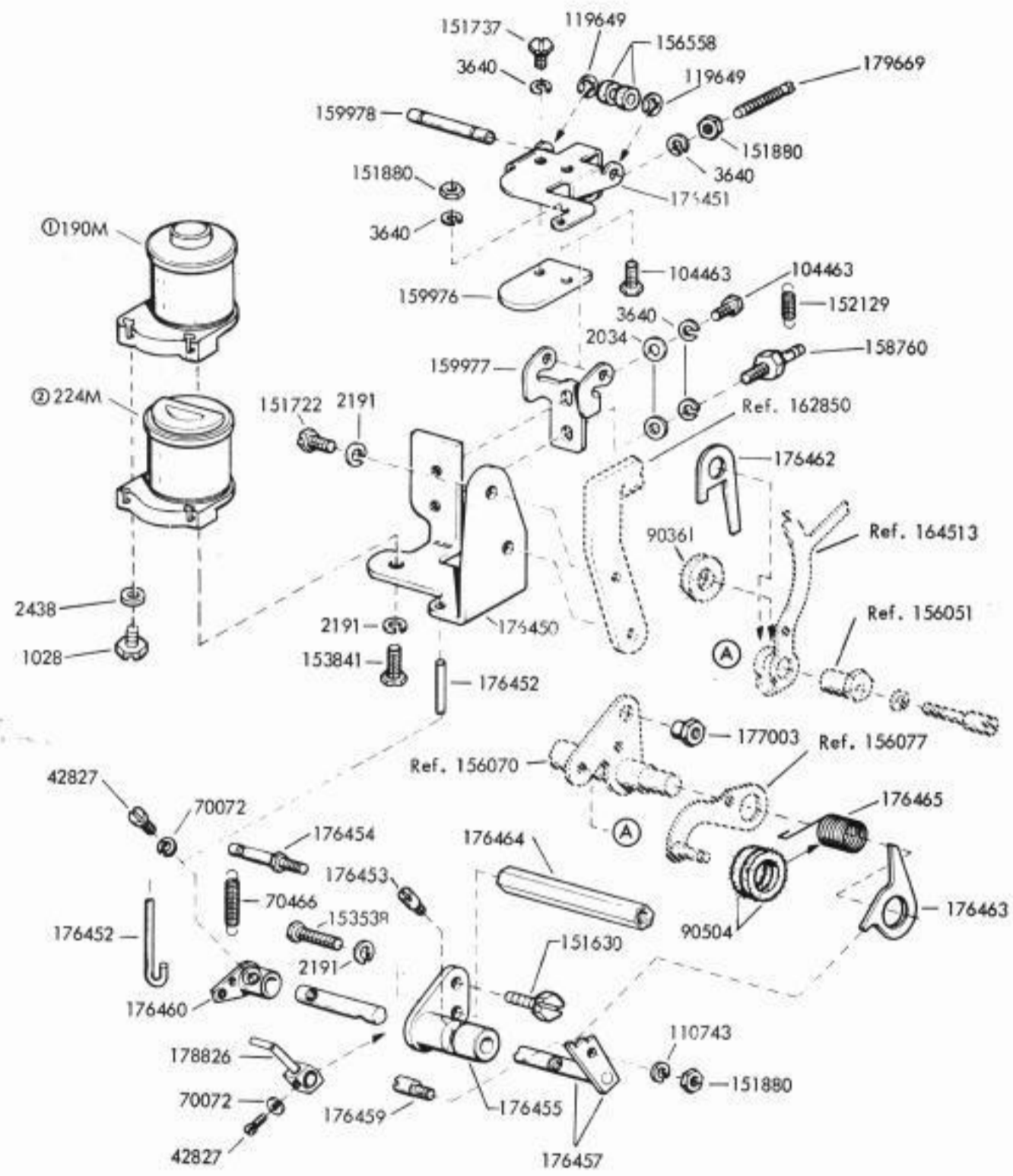
FIGURE 48. 161828 MODIFICATION KIT TO MAKE TAPE BACKSPACE AND BLANK FEED-OUT COMPATIBLE



Specification 500415

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

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



(Also includes parts on Fig. 51)

Specification 500585

① Peculiar to 173961

② Peculiar to 179133

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

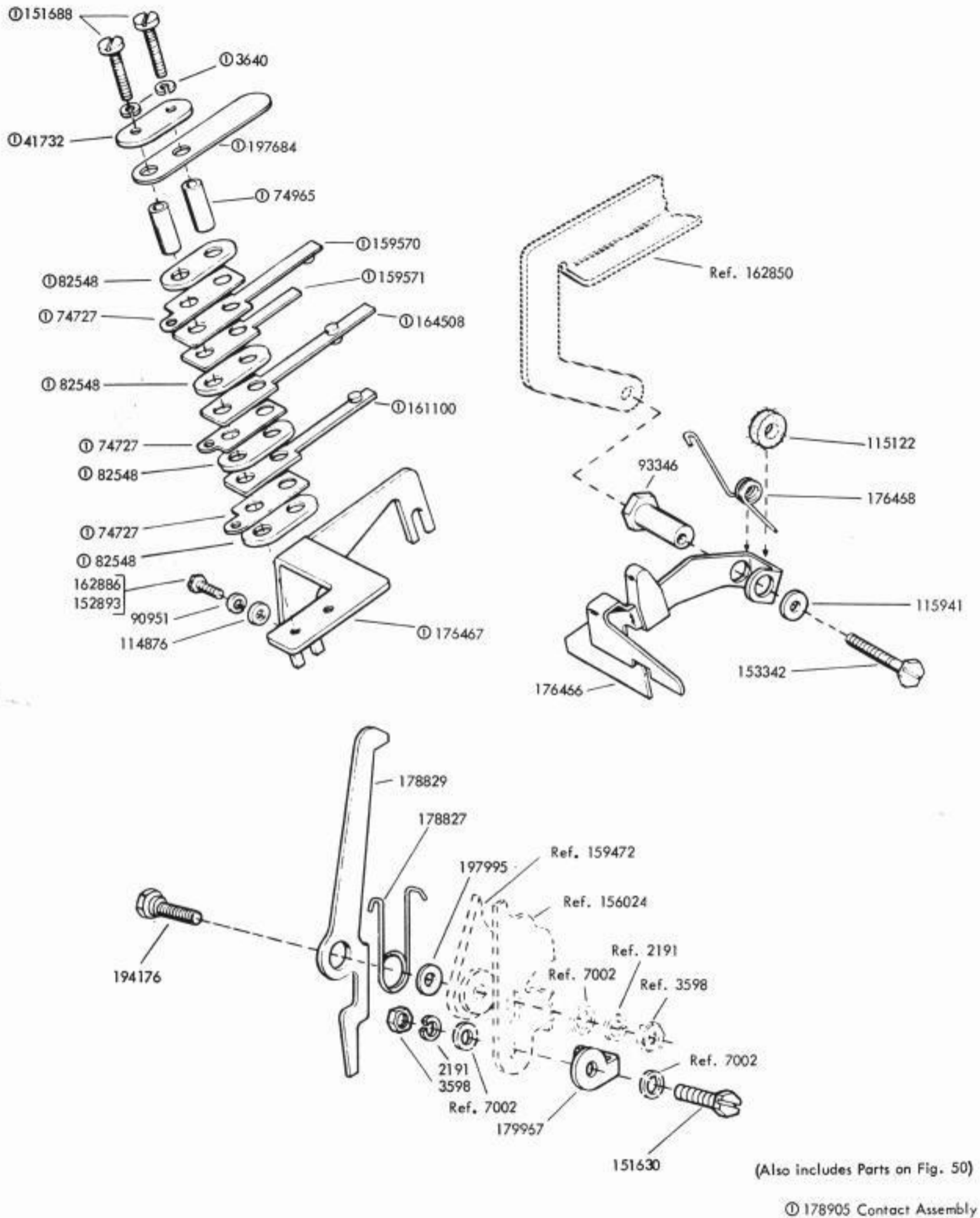


FIGURE 51. 173961 AND 179133 MODIFICATION KITS TO PROVIDE BLANK DELETE FOR TYPING REPERFORATOR (Continued)

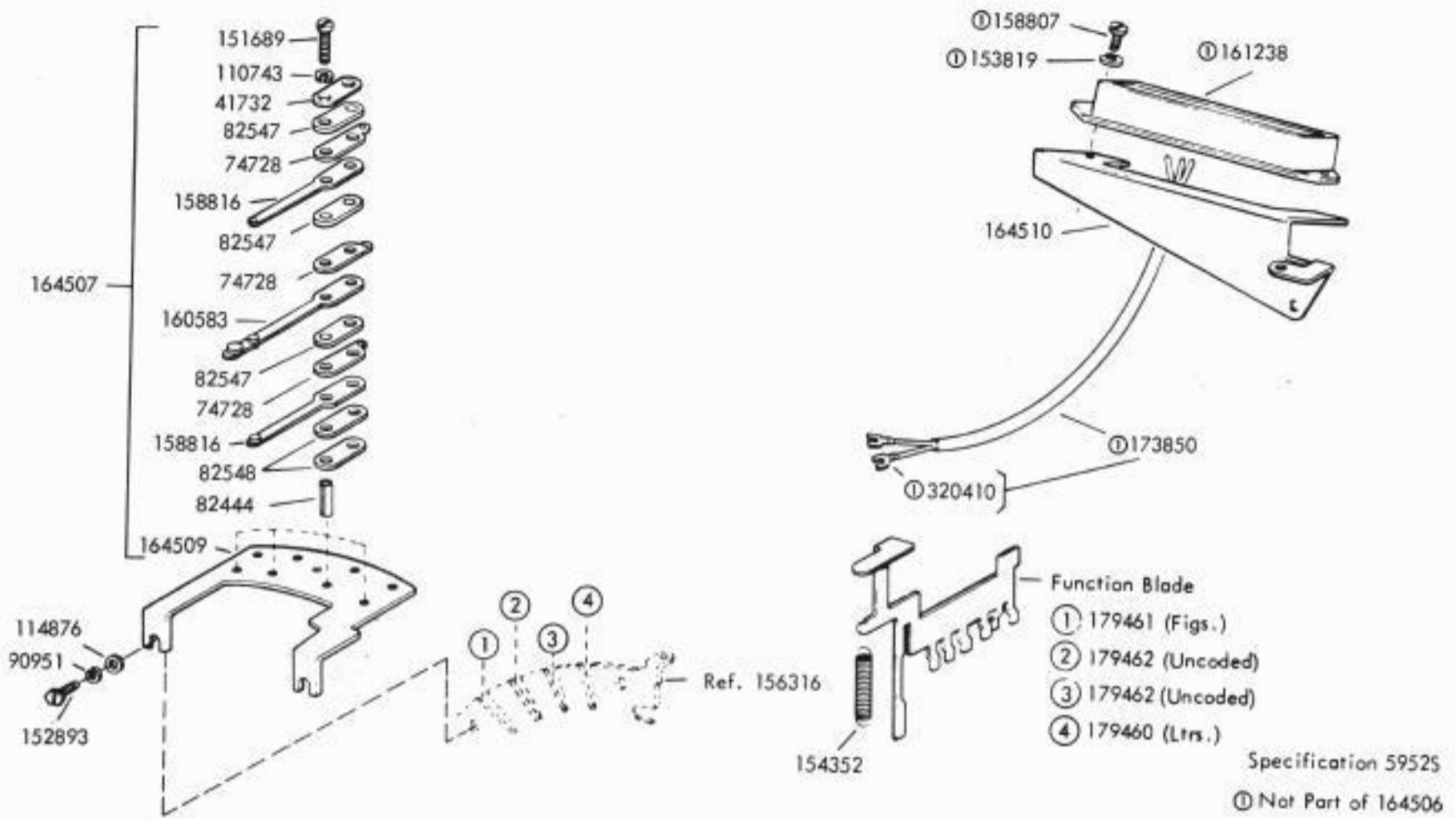


FIGURE 52. 164506 MODIFICATION KIT TO ADD MULTIPLE MOUNTED FUNCTION BLADE OPERATED CONTACTS

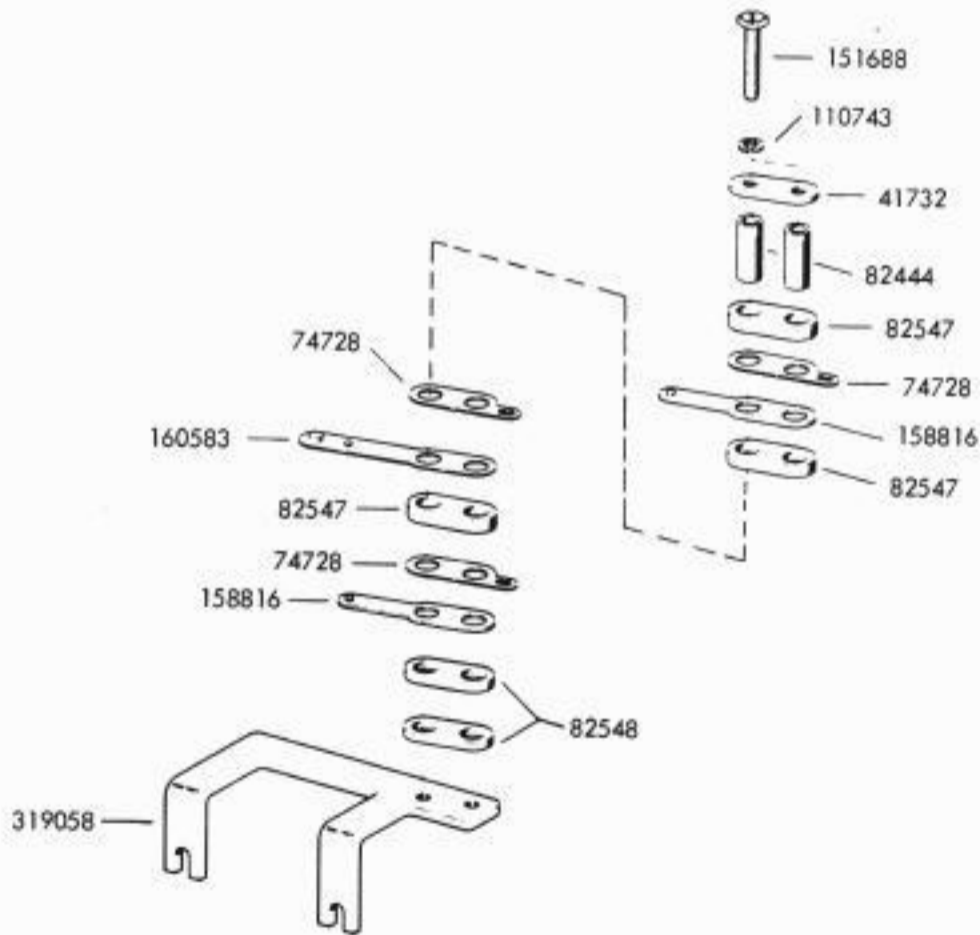


FIGURE 53. 319040 CONTACT ASSEMBLY - FUNCTION BLADE OPERATED

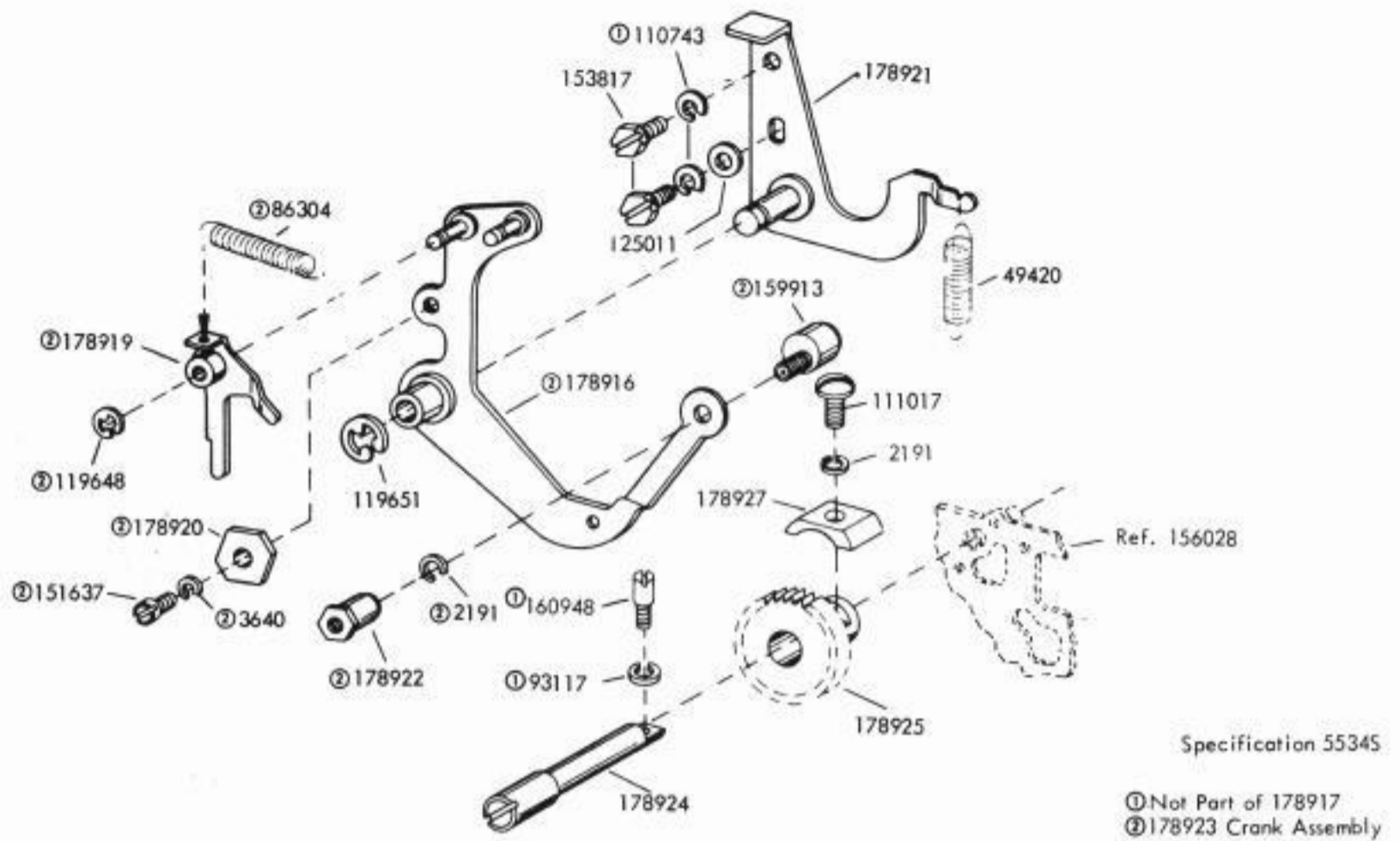


FIGURE 54. 178917 MODIFICATION KIT TO PROVIDE BACKSPACE MECHANISM FOR FULLY PERFORATED TAPE AND PRINTING BETWEEN FEED HOLES

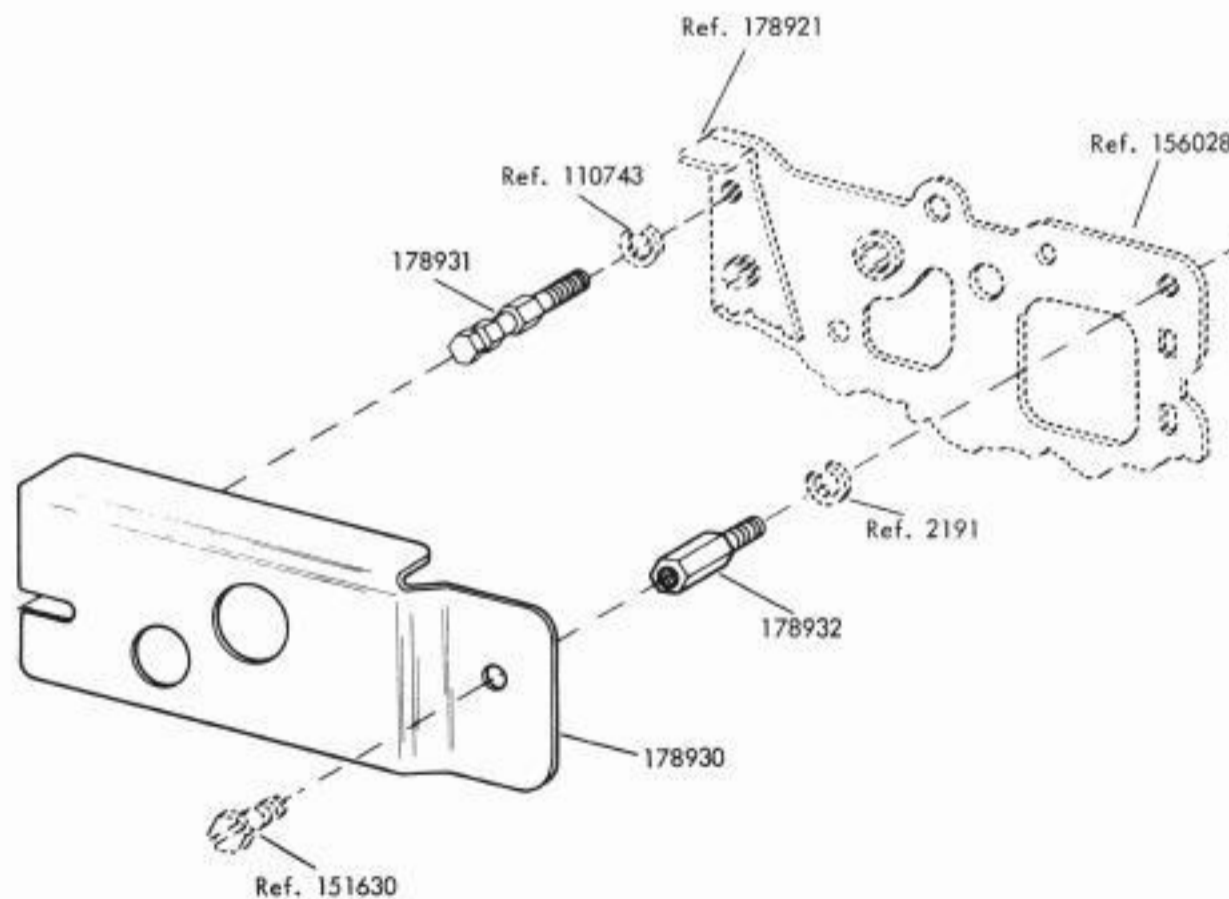


FIGURE 55. 178918 MODIFICATION KIT TO PROVIDE GUARD FOR BACKSPACE MECHANISM (FULLY PERFORATED TAPE, PRINTING BETWEEN FEED HOLES)

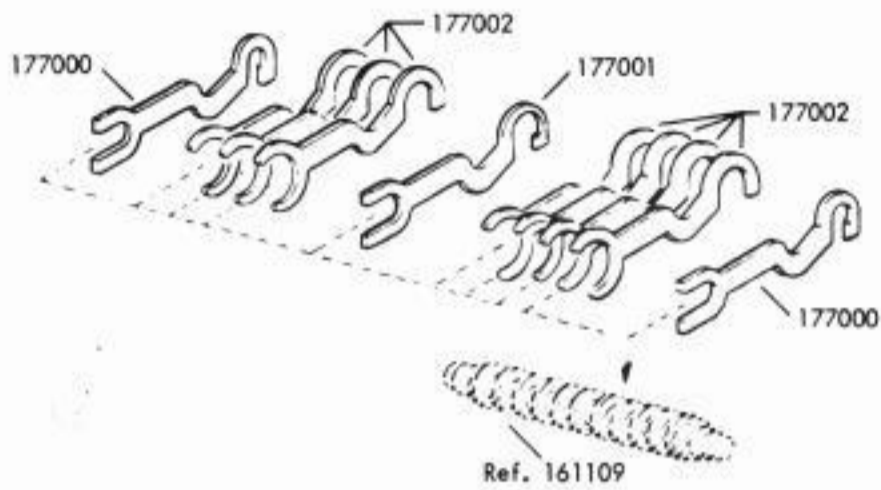
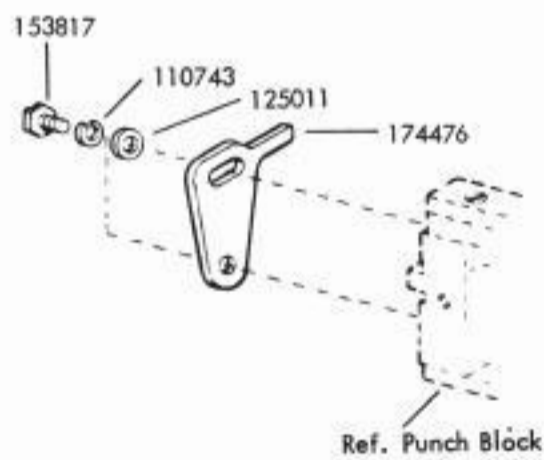


FIGURE 56. 179275 MODIFICATION KIT TO PROVIDE POSITIVE ENGAGEMENT OF PUNCH SLIDES WITH THE LATCH LEVERS



Specification 500345

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

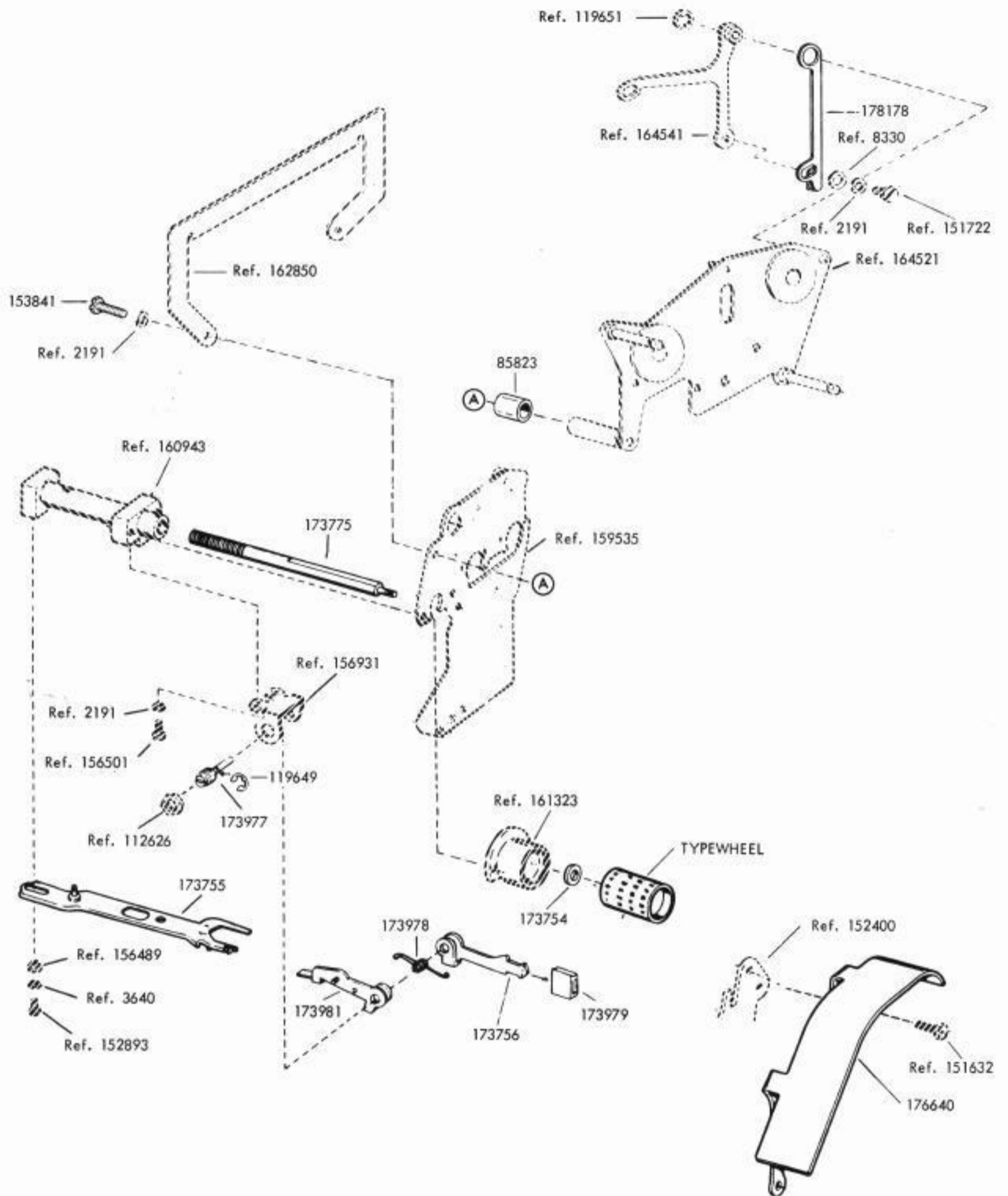


FIGURE 58. 178834 MODIFICATION KIT TO CONVERT RIBBON FEED MECHANISM TO FULLY PERFORATED TAPE

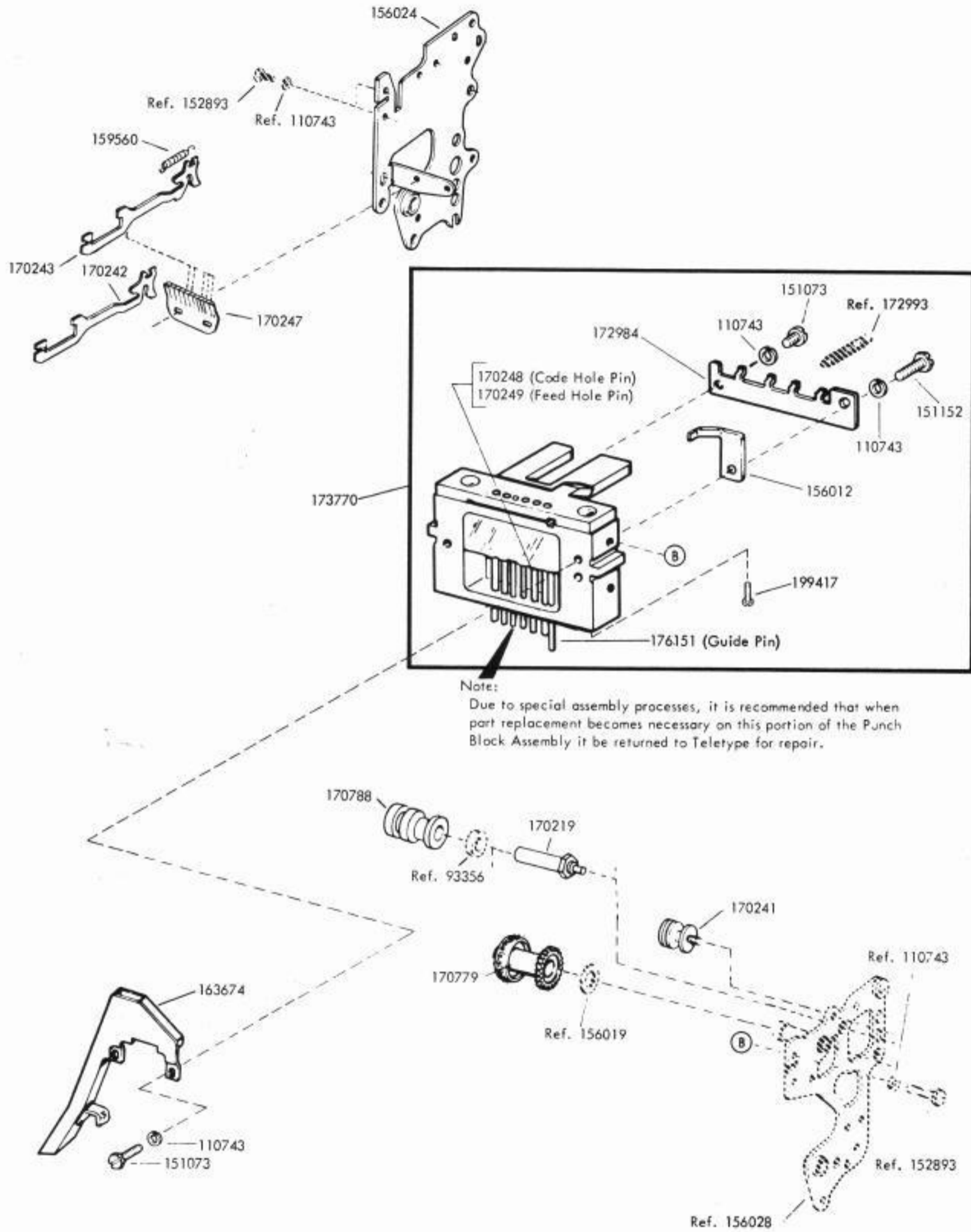
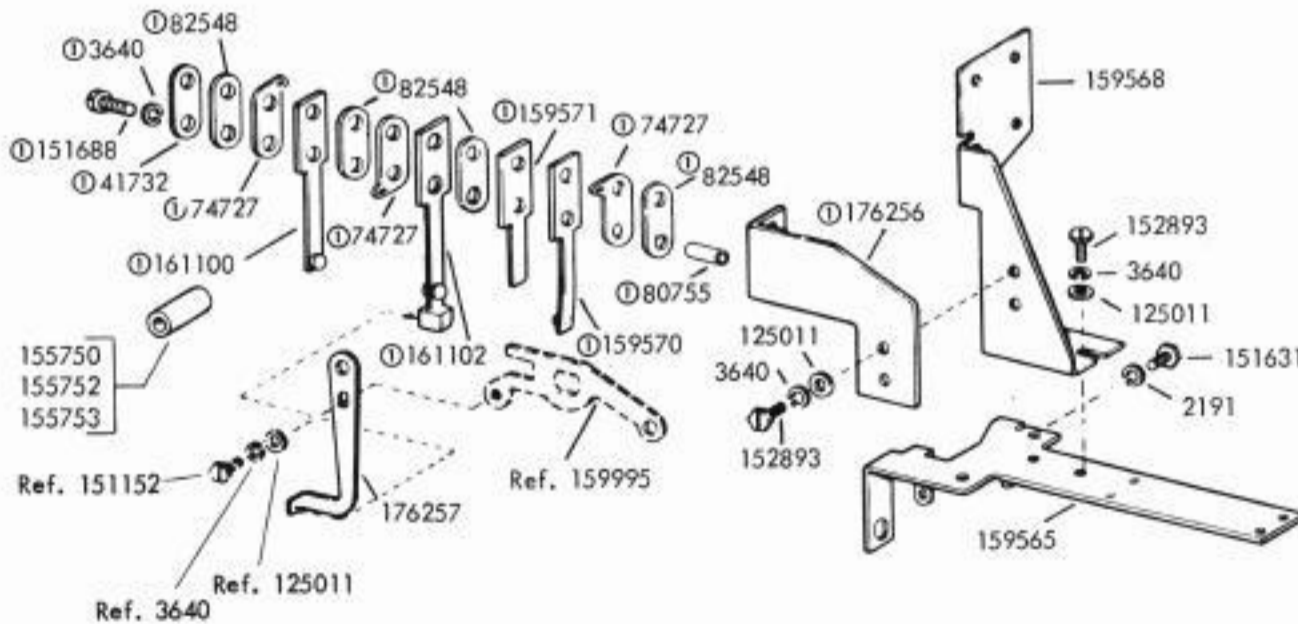
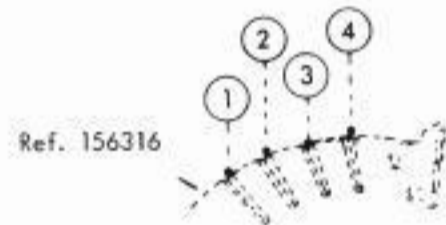
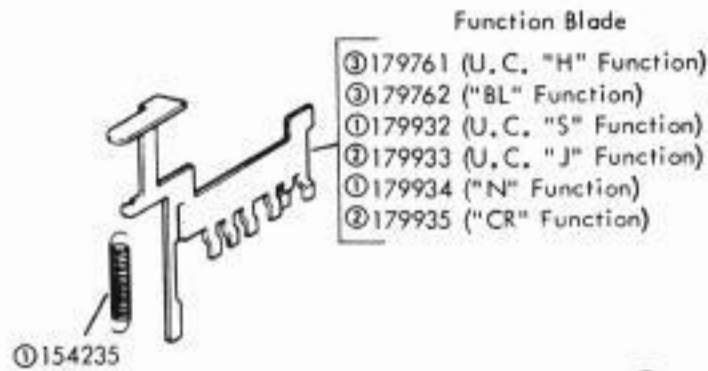
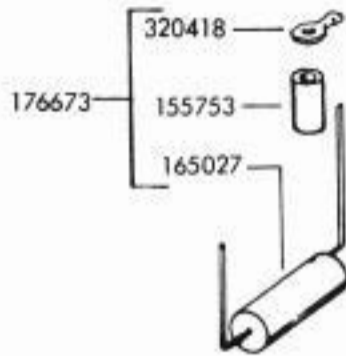


FIGURE 59. 178834 MODIFICATION KIT TO CONVERT RIBBON FEED MECHANISM TO FULLY PERFORATED TAPE (Continued)

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

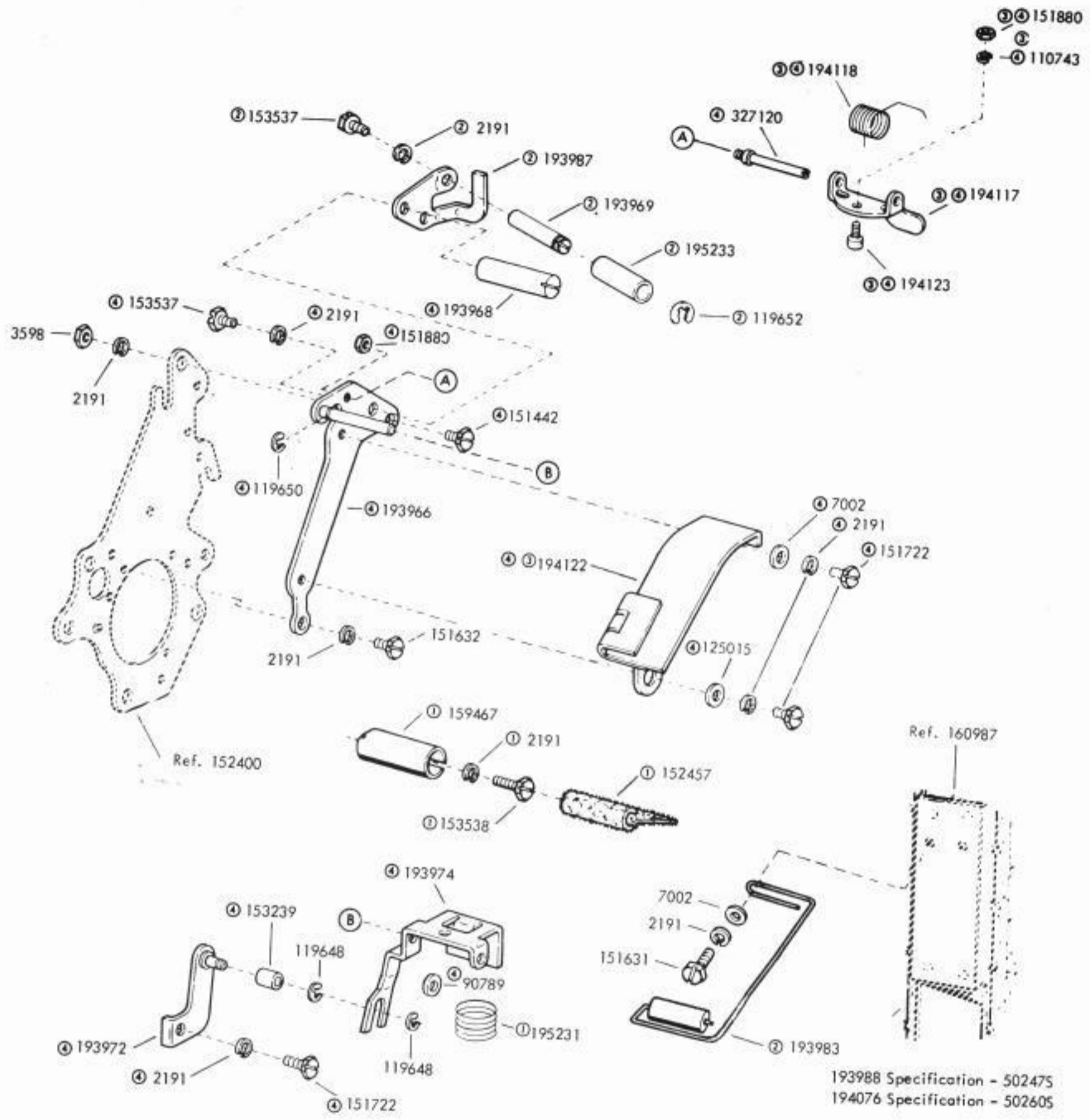


Note 1:
Function Blades included in
164506 Modification Kit

Specification 501115

- ① Peculiar to 176258
- ② Peculiar to 176627
- ③ Peculiar to 192686

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



193988 Specification - 502475
 194076 Specification - 502605

- ① Early Design Part
- ② 194076 Modification Kit to Reroute Tape
- ③ Replaces Early Design 195231
- ④ 193988 Modification Kit to maintain Slack Tape

FIGURE 61. SLACK TAPE AND REROUTE TAPE MECHANISMS

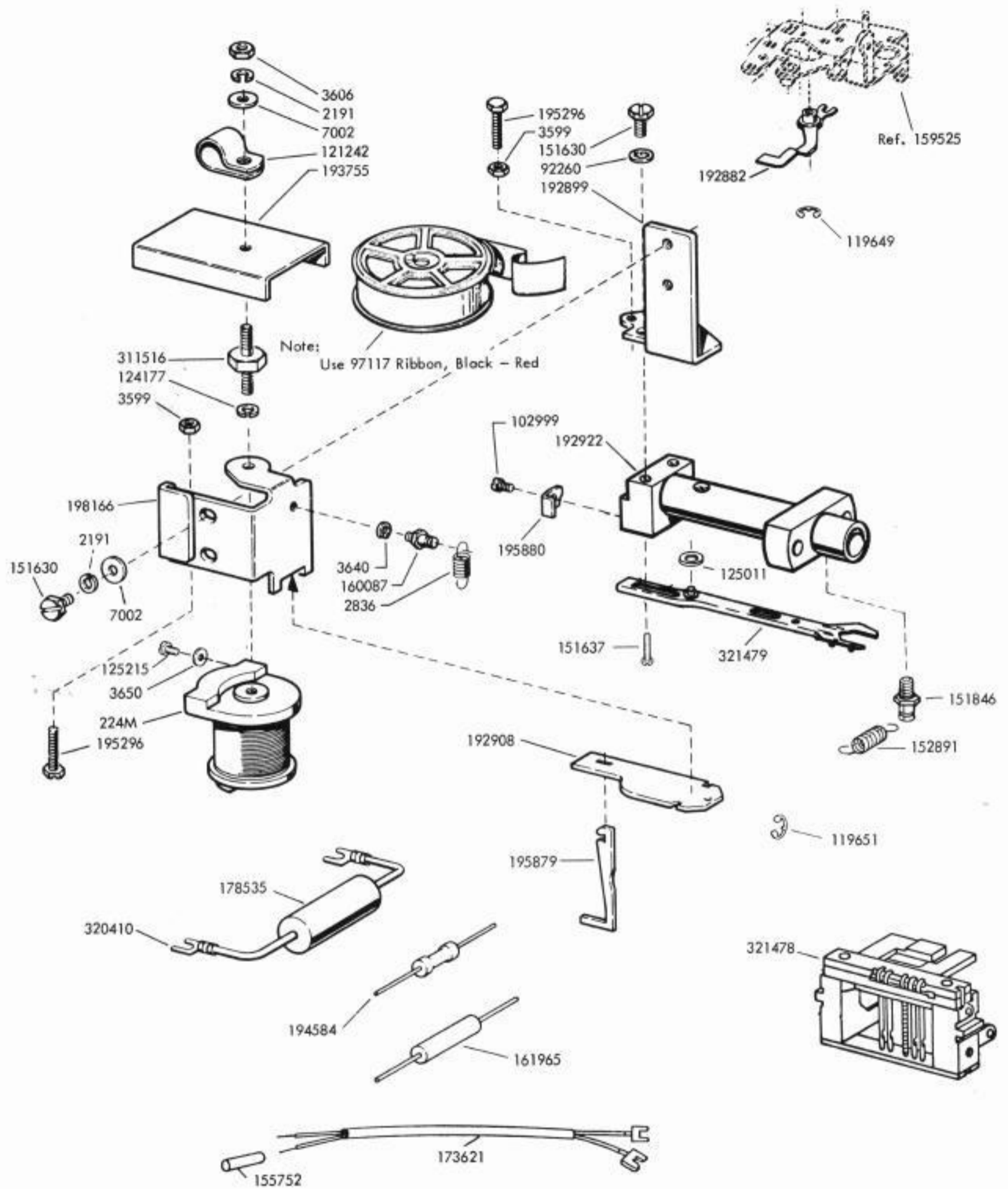
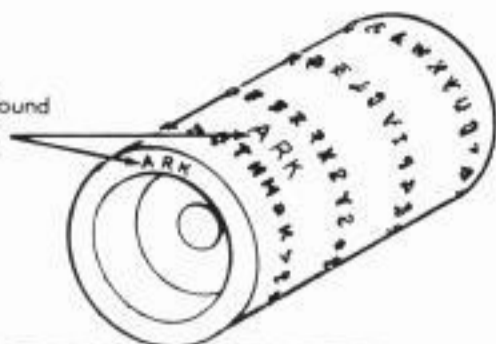


FIGURE 62. 304273 MODIFICATION KIT TO PROVIDE FOR TWO-COLOR PRINTING

Typewheel Code may be found
in either of two locations.



TYPEWHEEL ARRANGEMENT

COMMUNICATION		COMMUNICATION		COMMUNICATION		FRACTION		FRACTION		FRACTION		WEATHER	
CODE	PART NUMBER	CODE	PART NUMBER	CODE	PART NUMBER	CODE	PART NUMBER	CODE	PART NUMBER	CODE	PART NUMBER	CODE	PART NUMBER
AWA	173967	AFU	175690	AWJ	175573	ABA	175586	AGM	307306	AXY	175520	ARE	173970
ABD	175588	AFV	175691	AWM	175576	ABC	175587	AGP	307308	AXZ	175521	ABZ	175607
ABE	175589	AFW	175692	AWU	175582	ABG	175591	AGT	307311	AYB	175523	ADH	175636
ABF	175590	AFX	175693	AXE	175504	ABM	175596	AGU	307312	AYE	175526	ADR	175643
ABH	175592	AFY	175694	AXG	175506	ABN	175597	AGW	307314	AYG	175528	AGS	307310
ABJ	175593	AGA	175696	AXH	175507	ABR	175599	AGX	307315	AYL	175532	AHT	307333
ABL	175595	AGE	307300	AXP	175513	ABU	175602	AGY	307316	AYP	175535	AJG	307346
A3P	175598	AGK	307304	AXR	175514	ABV	175603	AGZ	307317	AYS	175537	AJK	307348
ABS	175600	AGN	307307	AXU	175517	ABX	175605	AHB	307319	AYT	175538	AJM	307350
ABT	175601	AGR	307309	AYC	175524	ABY	175606	AHE	307322	AYV	175544	AJR	307353
ABV	175604	AHA	307318	AYF	175527	ACB	175609	AHK	307326	AZE	175552	AKD	307364
ACA	175608	AHC	307320	AYH	175529	ACE	175611	AHL	307327	AZG	175554	ARM	163677
ACD	175610	AHD	307321	AYK	175531	ACG	175613	AHM	307328	AZM	175559	ARV	163683
ACF	175612	AHF	307323	AYM	175533	ACH	175614	AHR	307333	AZN	175561	AVB	163685
ACL	175617	AHN	307329	AYR	175536	ACJ	175615	AHV	307335	AZV	175567	AVE	163688
ACM	175618	AHP	307330	AYU	175543	ACK	175616	AJB	307341	BRB	175701	AVP	175578
ACN	175619	AHS	307332	AZC	175550	ACR	175621	AJD	307343	BRG	175706	AWY	175584
ACP	175620	AHU	307334	AZH	175555	ACS	175622	AJE	307344	BRJ	175708	AVZ	175585
ACT	175623	AHW	307336	AZJ	175556	ACZ	175629	AJH	307347	BRW	175719	AXA	175500
ACU	175624	AHX	307337	AZK	175557	ADA	175630	AJL	307349	BRX	175720	AXC	175502
ACV	175625	AHY	307338	AZP	175560	ADC	175632	AJP	307351	BWD	175723	AXD	175503
ACW	175626	AJA	307340	AZQ	175562	ADE	175633	AJT	307355	BWM	175731	AXF	175505
ACX	175627	AJC	307342	AZT	175565	ADF	175634	AJV	307357	BWY	175740	AXS	175515
ACY	175628	AJF	307345	AZU	175566	ADK	175638	AJX	307358	BXB	175743	AYA	175522
ADB	175631	AJS	307354	AZW	175568	ADM	175640	AKA	307361	BXD	175745	AYD	175525
ADJ	175637	AJU	307356	AZX	175569	ADP	175642	AKB	307362	BXX	175751	AYJ	175539
ADL	175639	AJZ	307360	AZY	175570	ADS	175644	AKC	307363			AYN	175534
ADT	175645	AKF	307366	BRL	175710	ADV	175647	AKE	307365			AYX	175546
ADU	175646	AKG	307367	BRN	175712	ADX	175649	AKH	307368			AYZ	175547
ADW	175648	AKJ	307369	BRP	175713	ADY	175650	AKS	307375			AZF	175553
AED	175655	AKL	307370	BRQ	175714	ADZ	175651	AKT	307376			AZL	175558
AEF	175656	AKM	307371	BRT	175716	AEA	175652	AKV	307378			AZR	175563
AEG	175657	AKN	307372	BWC	175700	AEB	175653	AKX	307380			AZS	175564
AEH	175658	AKP	307373	BWH	175727	ABJ	175659	ALB	307384			BRF	175705
AEK	175660	AKR	307374	BWJ	175728	AEP	175664	ARC	173971			BRH	175707
AEL	175661	AKU	307377	BWK	175729	AER	175665	ARJ	173968			BRK	175709
AEM	175662	AKW	307379	BWL	175730	AET	175667	ARP	163678			BRS	175715
AEN	175663	AKY	307381	BWN	175732	AFA	175674	ART	163680			BRV	175718
AES	175666	AKZ	307382	BWP	175733	AFD	175677	ARU	163689			BRY	175721
AEV	175669	ALA	307383	BWR	175734	AFE	175678	AWD	163687			BRZ	175722
AEW	175670	ARA	173965	BWS	175735	AFH	175680	AWK	175574			BWE	175724
AEX	175671	ARK	163675	BWT	175736	AFK	175682	AWN	175577				
AEY	175672	ARL	163676	BWX	175739	AFL	175683	AWR	175579				
AFB	175675	ARS	173969	BWZ	175741	AFN	175685	AWT	175581				
AFC	175676	ARV	163684	BXA	175742	AFZ	175695	AWX	175583				
AFG	175679	ARX	163682	BXC	175744	AGB	175697	AXB	175501				
AFJ	175681	ARY	163681	BXE	175746	AGC	175698	AXL	175510				
AFM	175684	ARZ	163679	BXF	175747	AGD	175699	AXM	175511				
AFP	175686	AWC	163686	BXG	175748	AGF	307301	AXN	175512				
AFR	175687	AWF	163690	BXH	175749	AGH	307302	AXT	175516				
AFS	175688	AWG	175571	BXJ	175750	AGJ	307303	AXV	175518				
AFT	175689	AWH	175572	BXL	175752	AGL	307305	AXW	175519				

Note:

Typewheels not appearing on this Page
may be ordered by Code Letters

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 44	7002	Washer, Flat 3,4,6,7,9, 10,11,13,14,15,18,24,29, 30,31,32,34,35,36,37,38, 40,43,45,52,53	76081	Washer, Flat 16
224M	Coil, Magnet 36,40,44,53	7603	Spring 37,40	76099	Washer, Flat 16
252M	Coil, Magnet 30	7655	Spring 24,39,41,43	76246	Bushing, Insulating 23
254M	Coil, Magnet 16	7835	Ribbon w/Spool, Black 22,	76422	Spring 39
281M	Coil, Magnet 40	8330	Washer, Flat 3,4,6,8, 12,14,15,17,18,19,22,28, 33,36,37,38,41,49	78533	Spring 15,37,40
1020	Screw, 6-40 x 1/4 Hex 6	22746	Spring 10,19,28	78824	Spring 23
1028	Screw, 4-40 x 1/4 Fil 44	31636	Spring 29	79012	Insulator 16
1036	Nut, 6-40 Hex 7	33765	Washer, Flat 35	80283	Screw, 4-40 Shoulder 31
1210	Screw, 2-56 x 5/8 Fil 27	41382	Spring 14	80334	Terminal, Contact 35,43
1256	Setscrew, 6-40 19,28	41543	Bearing, Ball 20	80531	Washer, Flat 22
2034	Washer, Flat 15,36,37, 39,41,44	41732	Plate, Clamp 23,24,30, 32,33,35,45,46,51	80755	Bushing, Insulating 24, 30,32,35,51
2191	Lockwasher 3,4,5,6,7,8, 9,10,11,12,13,14,15,16, 17,18,19,20,22,23,24,28, 29,30,31,32,33,34,35,36, 37,38,40,41,43,44,45,47, 49,51,52,53,	42823	Washer, Flat 3,5,29	80833	Guard, Contact Spring 33
2199	Nut, 7/16-32 Hex 10	42827	Screw, 3-48 x 1/4 Fil 44	81726	Terminal 24,33
2407	Lockwasher 10	45024	Spring 34	81731	Spring 22
2415	Spring 31	45104	Spring 37,40	81778	Screw, 4-40 x 3/6 Fil 16
2438	Washer, Flat 16,44	45963	Spring 29,38	82249	Washer, Flat 31
2481	Washer, Flat 32,43	47024	Washer, Flat 11	82392	Shim, 0.004" Thk 4
2539	Nut, 3/8-32 Hex 19,28,38	49084	Spring 3,32	82444	Bushing, Insulating 46
2669	Lockwasher 4,14	49420	Spring, Torsion 47	82463	Spring 23,28,37,40
2836	Spring 53	55005	Washer, Flat 31	82547	Insulator, 0.094" Thk 23,24,30,33,35,43,46
3598	Nut, 6-40 Hex 3,4,6,7,8, 10,11,14,15,17,18,20,24, 29,30,31,34,36,37,40,41 43,45,52	55063	Spring 21,35,36	82548	Insulator 0.062" Thk 23,24,30,32,33,35,43,45, 46,51
3599	Nut 4-40 Hex 3,6,7,9,11, 12,14,15,16,19,23,28,36, 37,38,40,53,	55063	Spring	84226	Spring 22,37,40
3603	Nut, 1/4-32 Hex 20	55090	Spring 29	84575	Spring 36
3606	Nut, 6-40 Hex 4,18,31,53	55669	Spring 41	84592	Shim, 0.004" Thk 41
3624	Washer, Flat 30	70072	Lockwasher 44	84892	Stiffener 43
3640	Lockwasher 3,4,5,9,10, 11,13,18,19,24,27,28,29, 30,31,32,36,37,38,40,41, 42,44,45,47,49,51,53	70466	Spring 44	85823	Spacer, 0.188" Thk 17, 22,49
3646	Lockwasher 34	70878	Spring 36	86079	Washer, Felt 11,37
3650	Washer, Flat 36,53	71073	Washer, Flat 31	86283	Spring 17
3870	Spring 18	71437	Washer, Flat 8	86304	Spring 35,47
4703	Spring 37,40	71681	Spool, Ribbon 22	86506	Post, Spring 3
4812	Wick, Felt 39	72522	Wick, Felt 7,31	86714	Washer, Flat 22
5363	Spring, Compression 7	73175	Lockwasher 19,28,38	86774	Screw, 6-40 Shoulder 11, 34
5425	Shim, 0.010" Thk 29	73611	Wick, Felt 32	86873	Spring 41
6801	Screw, 4-40 Pilot 23	74283	Washer, Spring 14	87401	Spring 3
		74553	Wick, Felt 10	90052	Screw, 4-40 x 5/8 Hex 14
		74674	Nut, 6-40 Spl 31	90361	Washer, Felt 8,44
		74727	Terminal, Contact 32,45, 51	90504	Washer, Felt 31,44
		74728	Terminal, Contact 30,46	90517	Spring 19
		74952	Screw, 4-40 x 5/8 Fil 23	90535	Washer, Felt 13
		74965	Bushing, Insulating 45	90560	Washer, Flat 35
				90573	Spring 4
				90599	Shim 0.008" Thk

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
90606	Spring 3,17	111767	Washer, Flat 29	124177	Lockwasher, 4,6,14,15, 25,53
90615	Spring 18	111777	Connector, 4 Pt Receptacle 26	125011	Washer, Flat 3,6,9,11, 12,13,14,17,18,19,21,29, 30,31,32,35,37,38,39,40, 41,42,47,48,51,53
90789	Washer, Flat 15,52	112475	Screw, 6-40 Eccentric 31	125015	Washer, Flat 4,8,9,16, 18,43,52
90790	Washer, Flat 36	112509	Insulator, 0.031" Thk 23	125215	Screw, 4-40 x 3/16 Hex 36,40,53
90791	Lockwasher 7	112626	Nut, 10-32 Hex 10,14,49	125231	Nut, 10-32 Hex 4
90951	Lockwasher 13,23,33,43, 45,46	112627	Nut, 2-56 Hex 27,31	125268	Spring 19,28,30
91120	Spring	112631	Spring 3	125802	Washer, Flat 19,22,28
92260	Lockwasher 18,53	112634	Spring 13	128357	Ring, Retaining 8,13
93108	Lockwasher 20	112636	Spring, Feed Pawl 29	130330	Washer, Felt 11
93117	Lockwasher 27,47	113039	Post, Spring 41	130696	Washer, Felt 12
93118	Lockwasher 30,31	114876	Washer, Flat 13,33,45,46	131016	Washer, Felt 11
93346	Bushing, Eccentric 45	115122	Washer, Felt 10,45	135716	Spring 3
93356	Washer, Felt 3,7,50	115134	Washer, Felt 11,31	135901	Washer, Cup 10
94669	Screw, 4-40 Shoulder 7	115941	Washer, Flat 20,45	138034	Plate, Clamp 27
94693	Wick, Felt 31	119467	Insulator, 0.032" Thk 30	139697	Screw, 4-40 x 9/32 Fil 20
94712	Washer, Flat 10	119647	Ring, Retaining 7,29	139752	Screw, 4-40 x 11/64 Fil 3
96717	Screw, 4-40 Shoulder 4, 15,24	119648	Ring, Retaining 4,7,14, 21,27,35,36,39,41,43,47, 52	144539	Shim, .005" Thk 19,28
97117	Ribbon w/Spool, Red-Black 53	119649	Ring, Retaining 7,10,11, 13,17,22,29,30,31,32,36, 37,40,41,44,49,53	144797	Shaft, Feed Wheel
97266	Plate, Clamp 24,33	119650	Ring, Retaining 8,17,18, 22,52	144793	Stud, Die Wheel 7
97516	Bushing 22	119651	Ring, Retaining 3,10,12, 13,18,22,23,29,30,35,36, 37,47,49,53	144794	Spring, Torsion 7
98004	Screw, 2-56 x 11/16 Hex 30	119652	Ring, Retaining 3,7,8, 14,29,37,40,41,52	144795	Plate, Rear 6
100994	Nut, 2-56 Hex 30	119653	Ring, Retaining 10,17, 22,29,41	144796	Plate, Front 7
101123	Washer, Felt 11	119655	Ring, Retaining 38	144797	Shaft, Feed Wheel 7
101626	Eccentric 31	119656	Ring, Retaining 19,28,38	144998	Post 7
102028	Post, Spring 29	121100	Spring 13	144999	Shoe, Tape 7
102999	Screw, 2-56 x 5/32 Fil 53	121125	Washer, Spring 30	145353	Wheel, Pressure 7
103078	Plate 43	121242	Clamp, 118 ID Cable 15, 53	145356	Wheel, Feed 7
104463	Screw, 4-40 x 1/4 Hex 44	121243	Clamp, 3/16 ID Cable 15, 25	145357	Guide, Tape 7
104807	Washer, Flat 31	121244	Clamp, 1/4 ID Cable 33	145358	Bracket, Tape Guide 6
104824	Spring 16,35	121245	Clamp, 5/16 ID Cable 15, 25	148630	Modification Kit 1,31
108943	Bushing 33	121246	Clamp, 3/8 ID Cable 15, 25	148648	Bracket 31
109356	Washer, Flat 24	121551	Screw, 8-32 x 1/4 Hex 34	148649	Post 31
110434	Screw, 4-40 x 3/16 Fil 3,14,15	122149	Screw, 4-40 Spl 35	148650	Bracket 31
110435	Nut, 4-40 Hex 24	122292	Bushing, Insulating 43	148651	Actuator, Switch Lever 31
110437	Spring 13,31			148652	Bushing, Shoulder 31
110743	Lockwasher 3,5,6,7,8,9, 10,11,12,13,14,15,16,17, 19,20,21,22,23,27,29,30, 31,32,33,35,36,37,38,39, 40,41,44,46,47,48,50,52			148653	Lever 31
110879	Spring 9,12,18			148654	Pin, Sensing 31
111017	Screw, 6-40 x 5/16 Fil 18,47			148655	Spacer 31
111410	Washer, Flat 3			148656	Bail, Actuator 31
				148658	Block, Guide 31
				148659	Spacer 31

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
148660	Plate 31	151630	Screw, 6-40 x 1/4 Hex 3, 7,9,10,12,15,17,18,19, 20,23,24,28,30,32,33,38, 43,44,45,47,53	151737	Screw, 4-40 x 11/64 Hex 3,5,8,19,20,22,29,30,32, 36,44
150000	Drum, Clutch 5,38	151631	Screw, 6-40 x 5/16 Hex 3,4,6,7,9,13,14,16,18,20, 29,30,34,42,51,52	151846	Post, Spring 53
150001	Drum, Clutch 3,36	151632	Screw, 6-40 x 3/8 Hex 4, 5,6,14,15,20,23,24,30,32, 36,37,38,40,49,53	151848	Lock 29
150013	Disc, Adjusting 3,5	151637	Screw, 4-40 x 1/4 Fil 6, 17,37,40,47,53	151879	Stud 23
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150029	Wick, Felt 3,5	151642	Screw, 6-40 x 3/4 Fil 38	151886	Stud 23
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