

28 PERFORATOR, NON-TYPING (LPE) AND TYPING (LTPE)

PARTS

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NOTE:

When ordering parts from this section, prefix each number with the letters TP.

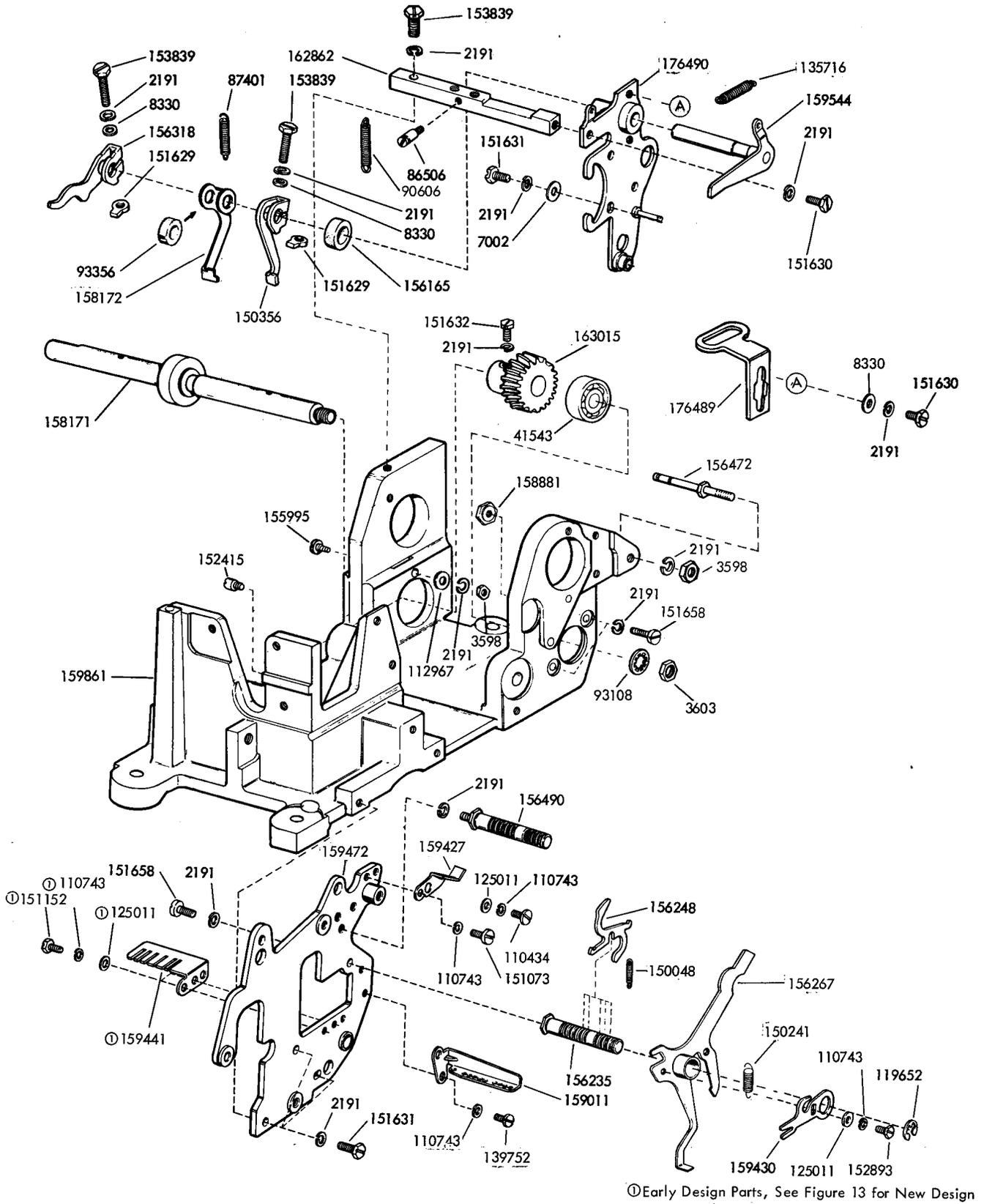


FIGURE 1. FRAME MECHANISM (TYPING PERFORATOR)



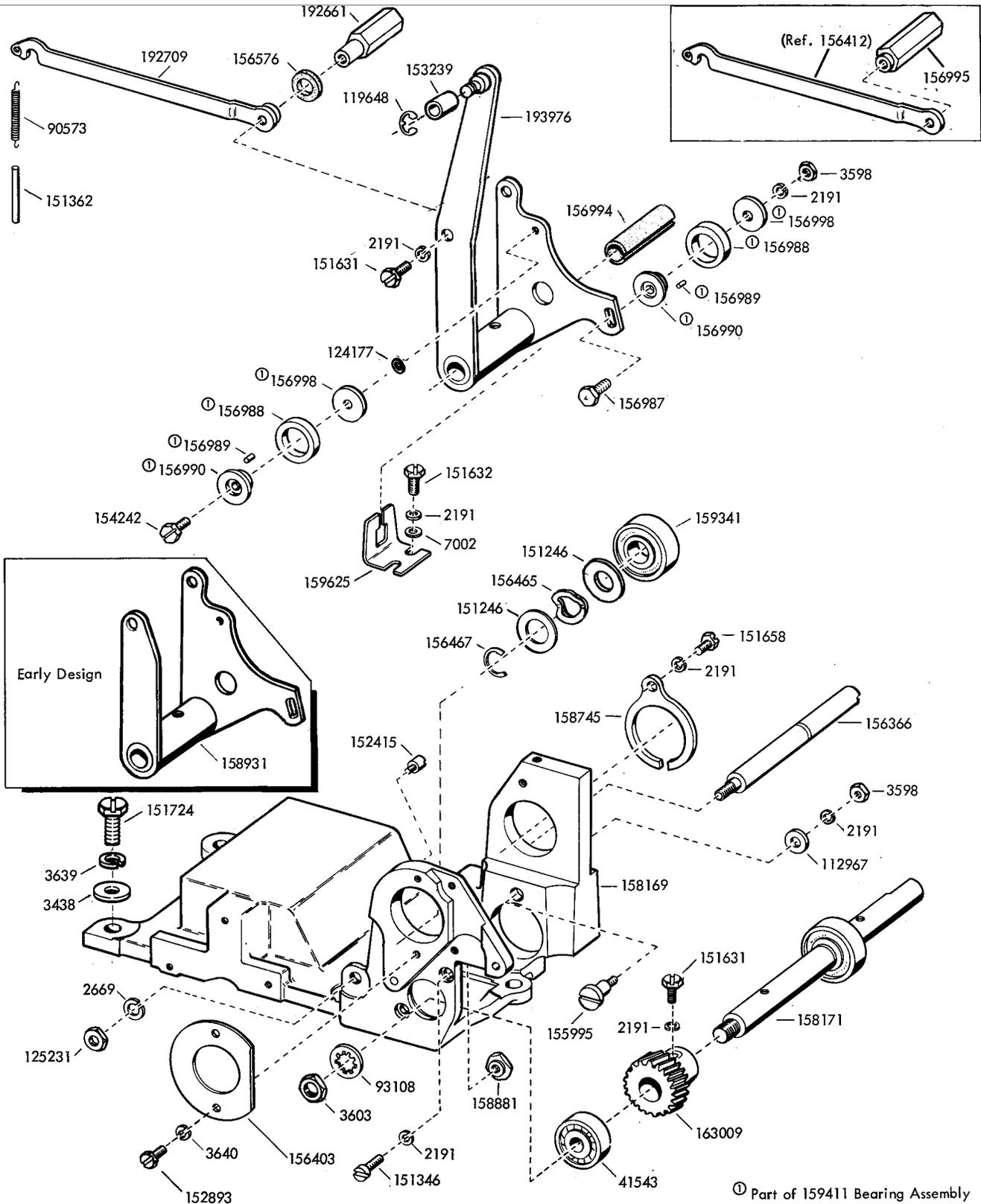


FIGURE 3. FRAME MECHANISM (NON-TYPING PERFORATOR)

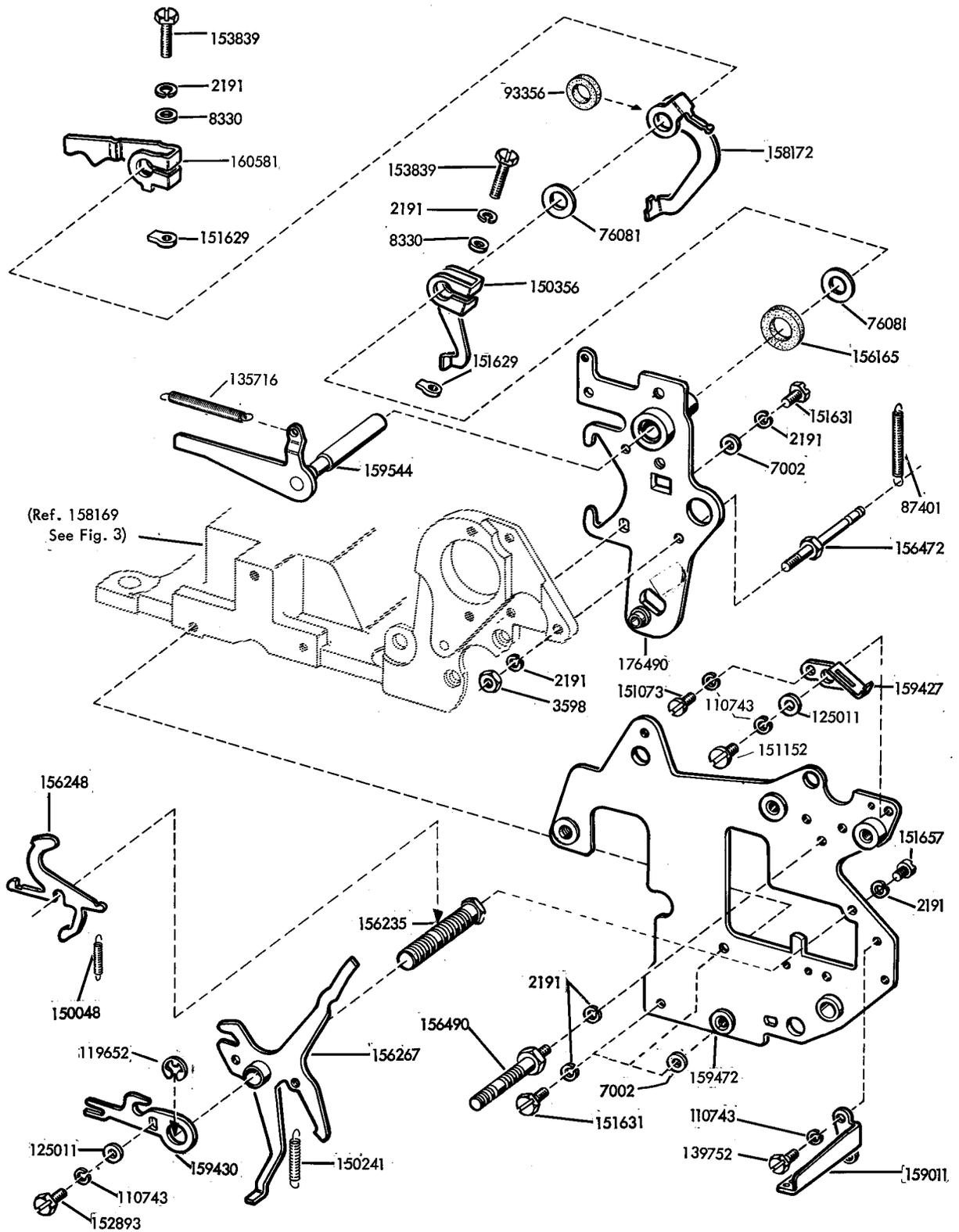
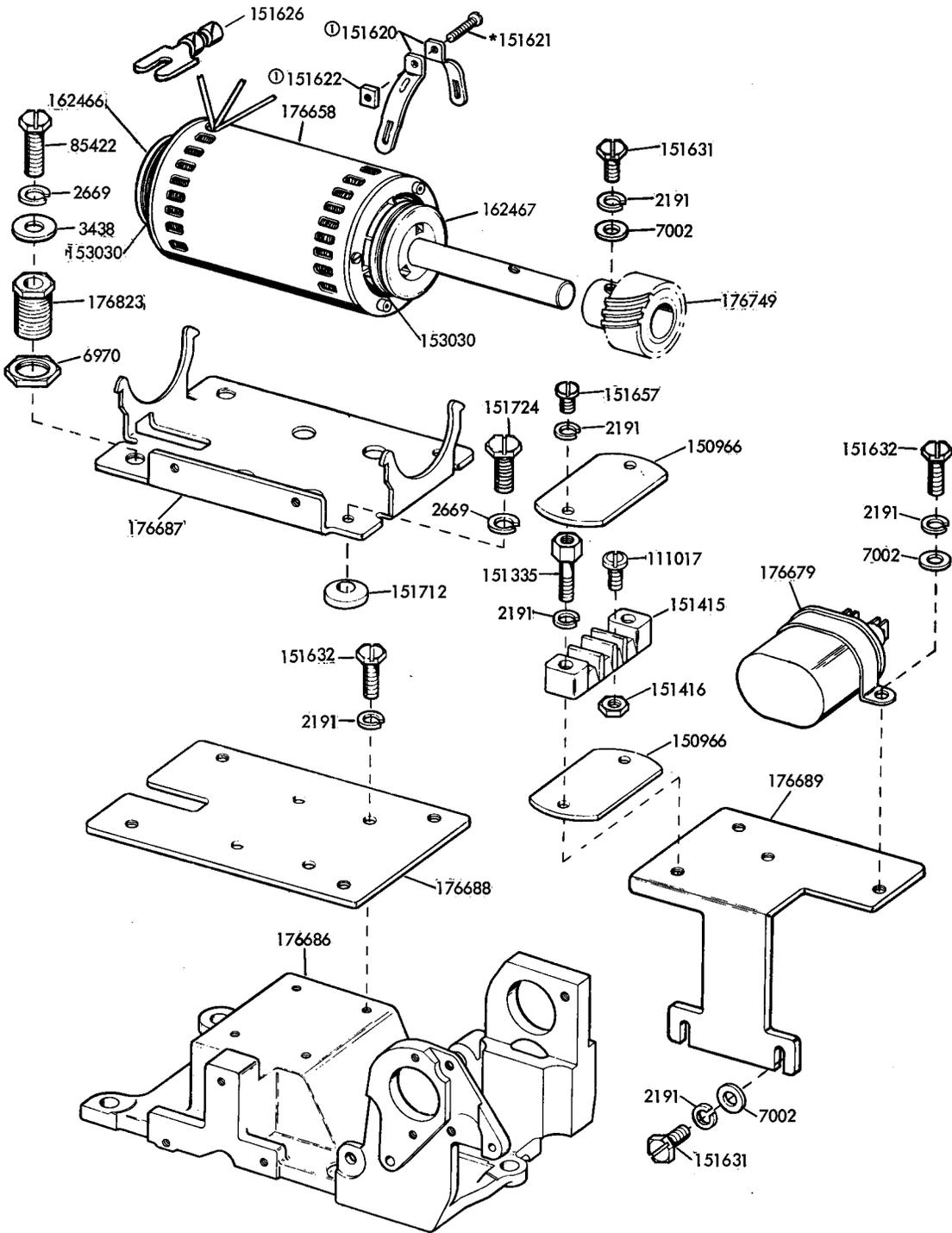


FIGURE 4. FRAME MECHANISM (NON-TYPING PERFORATOR)



Ⓢ122207 Strap Mounting Assembly

FIGURE 5. FRAME AND MOTOR MOUNTING PARTS (NON-TYPING PERFORATOR)

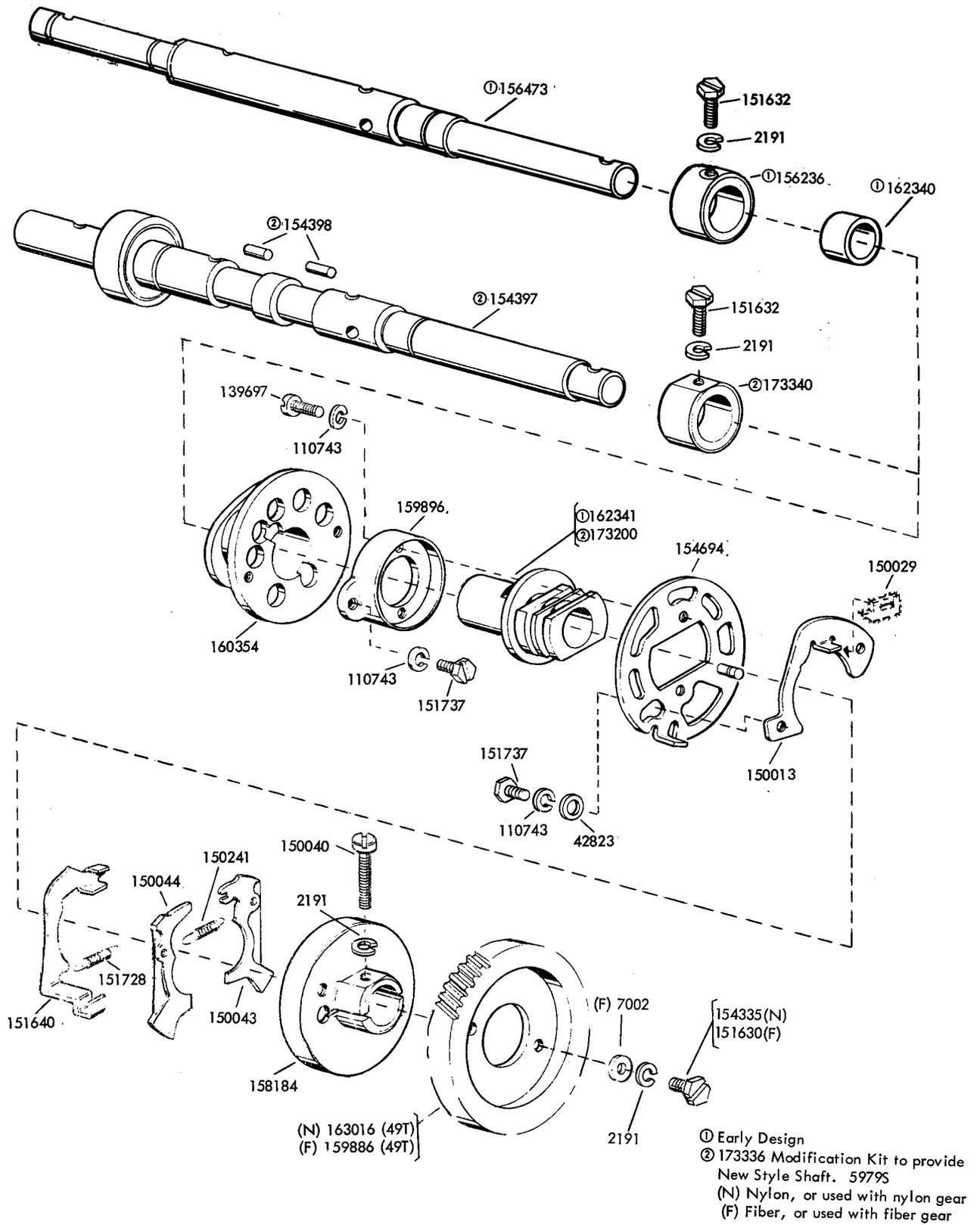


FIGURE 6. MAIN SHAFT MECHANISM (TYPING PERFORATOR)

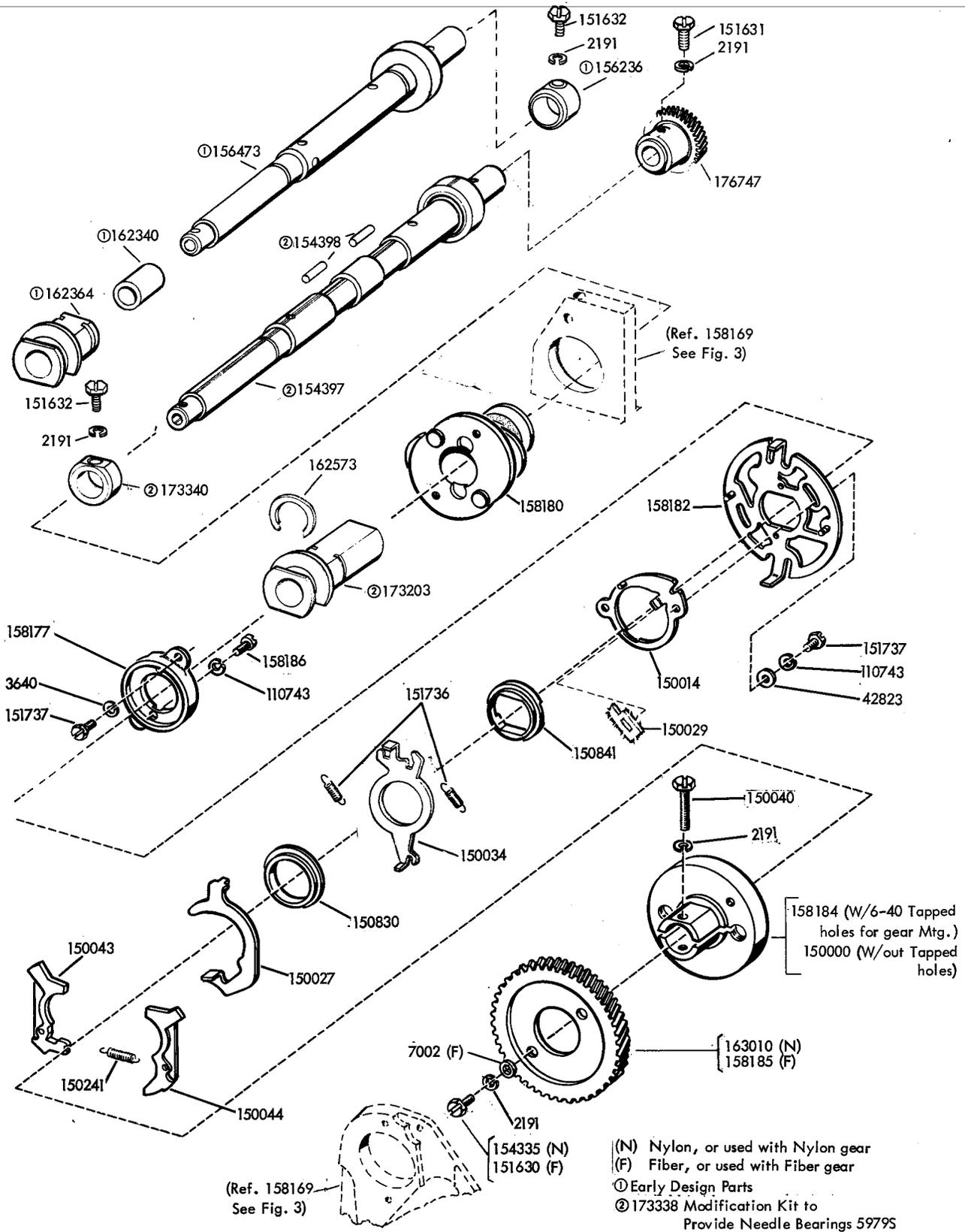


FIGURE 7. MAIN SHAFT MECHANISM (NON-TYPING PERFORATOR)



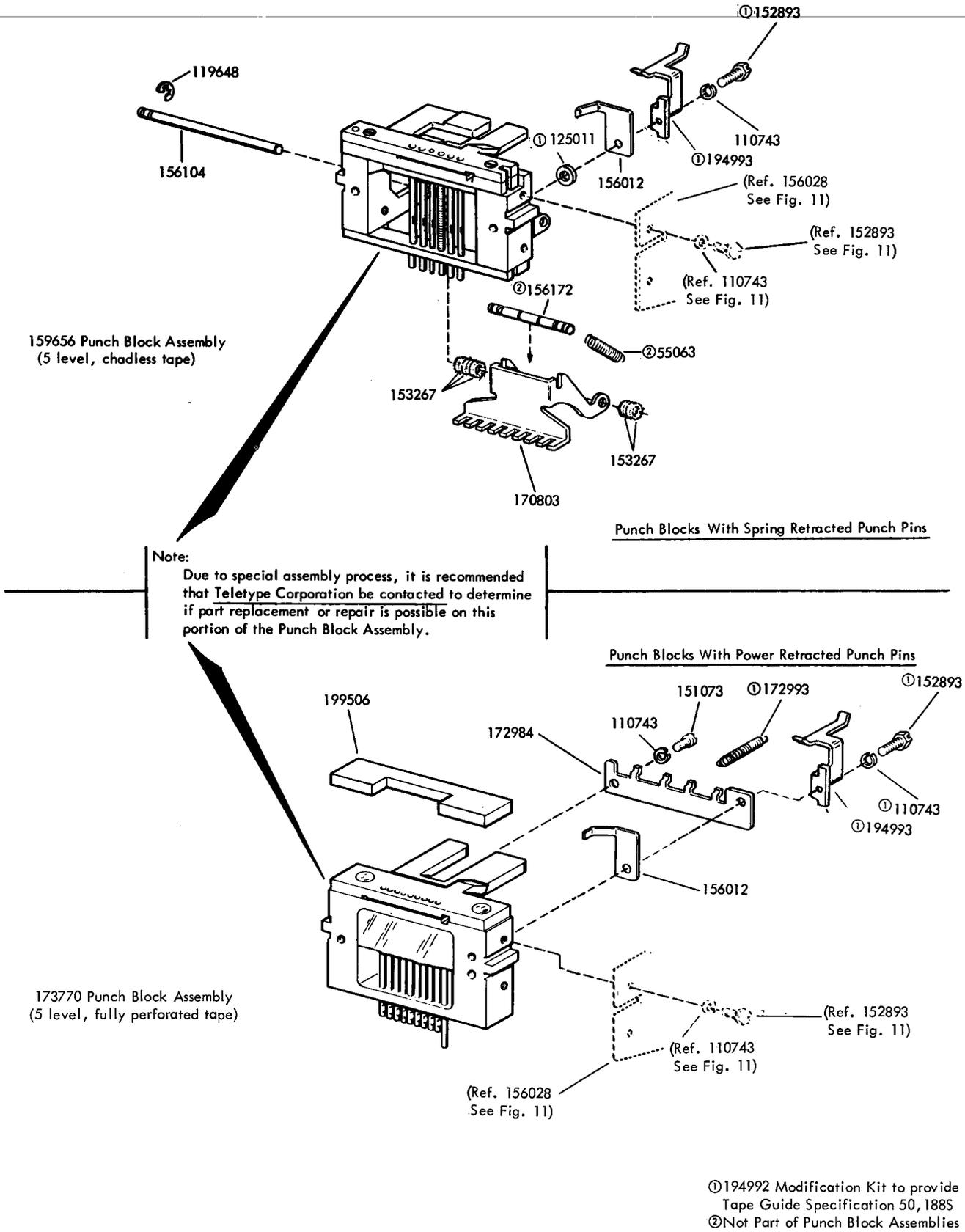


FIGURE 10. PUNCH BLOCK ASSEMBLIES



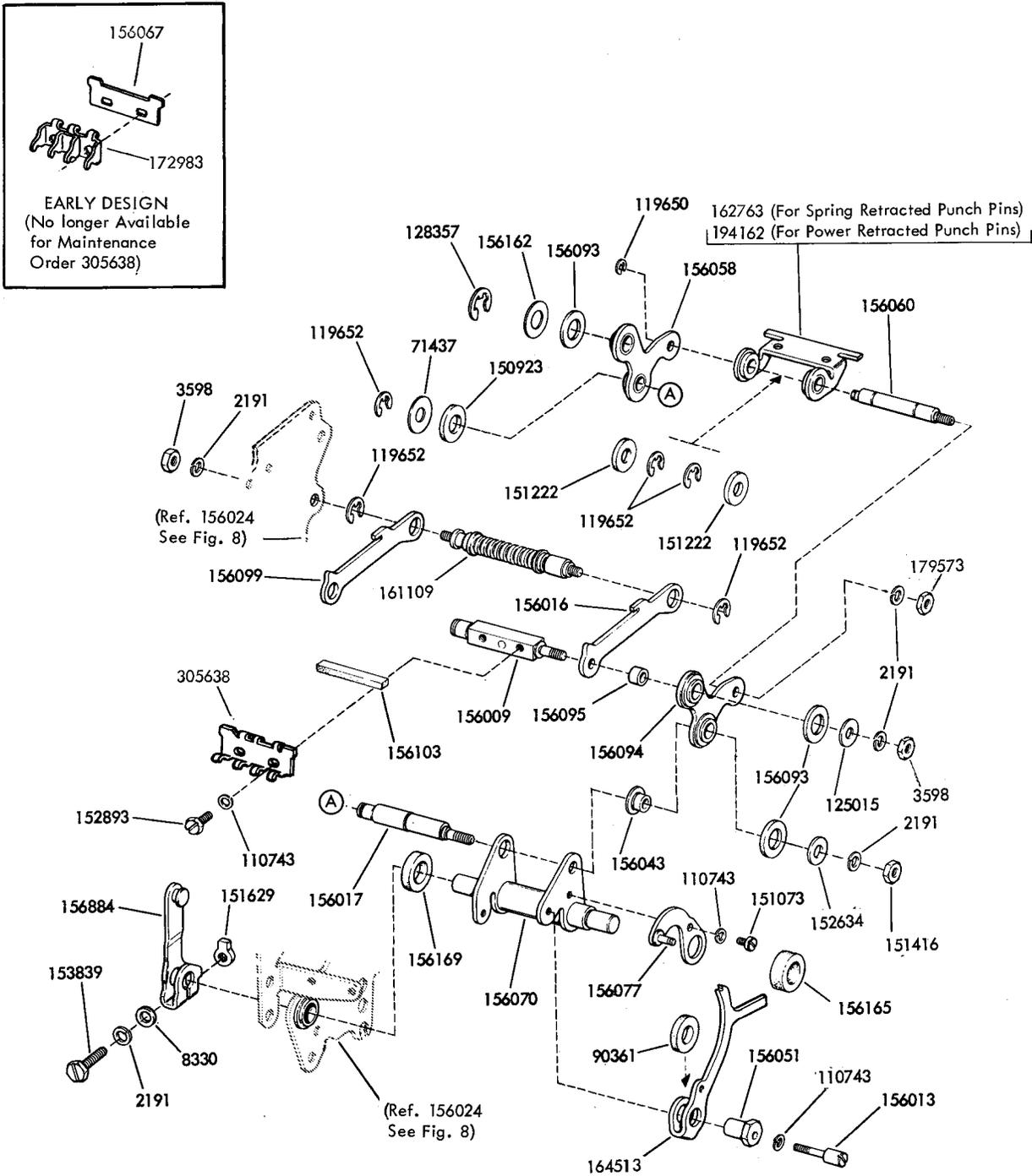


FIGURE 12. PUNCH BAIL MECHANISM



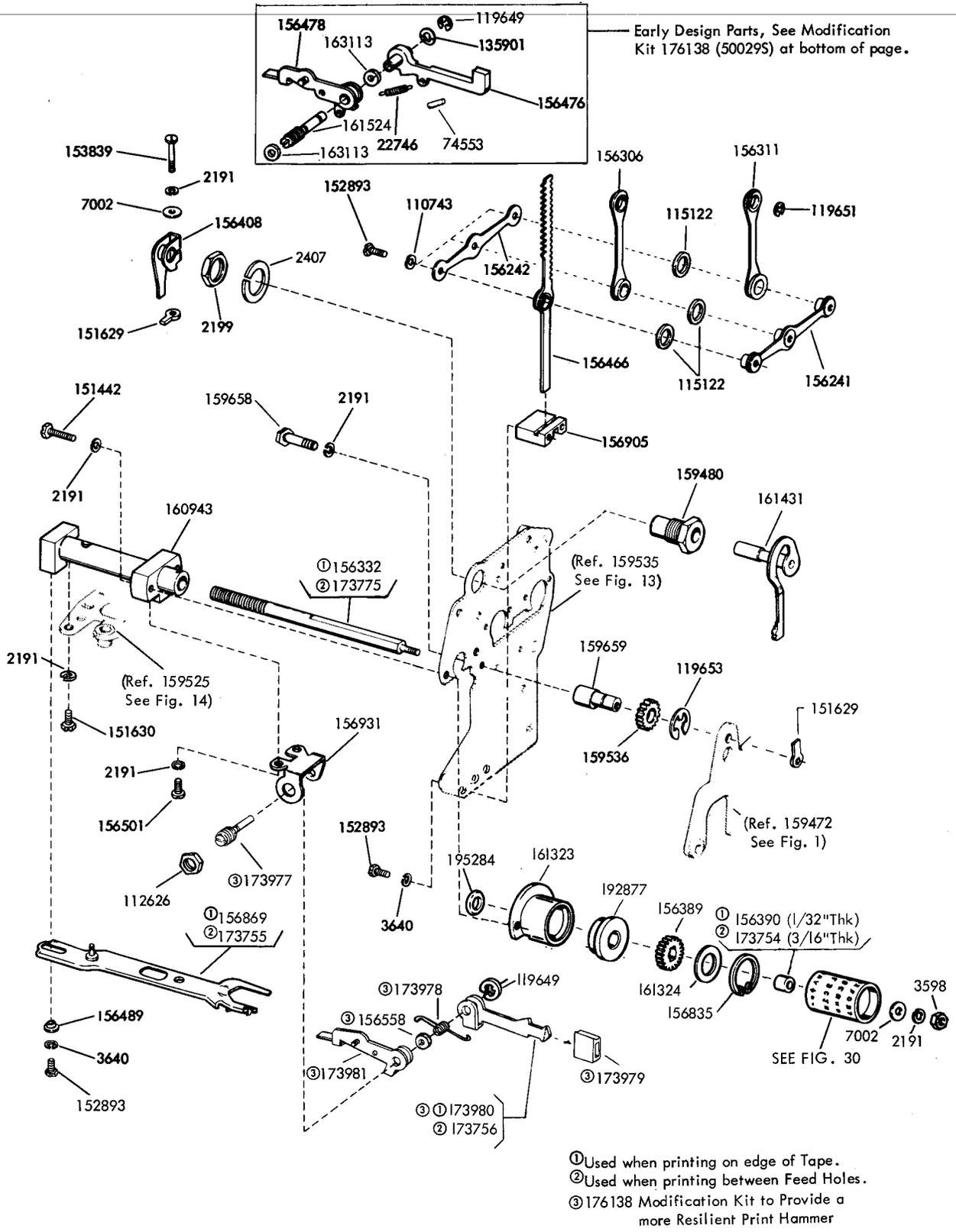


FIGURE 14. ROTARY POSITIONING MECHANISM

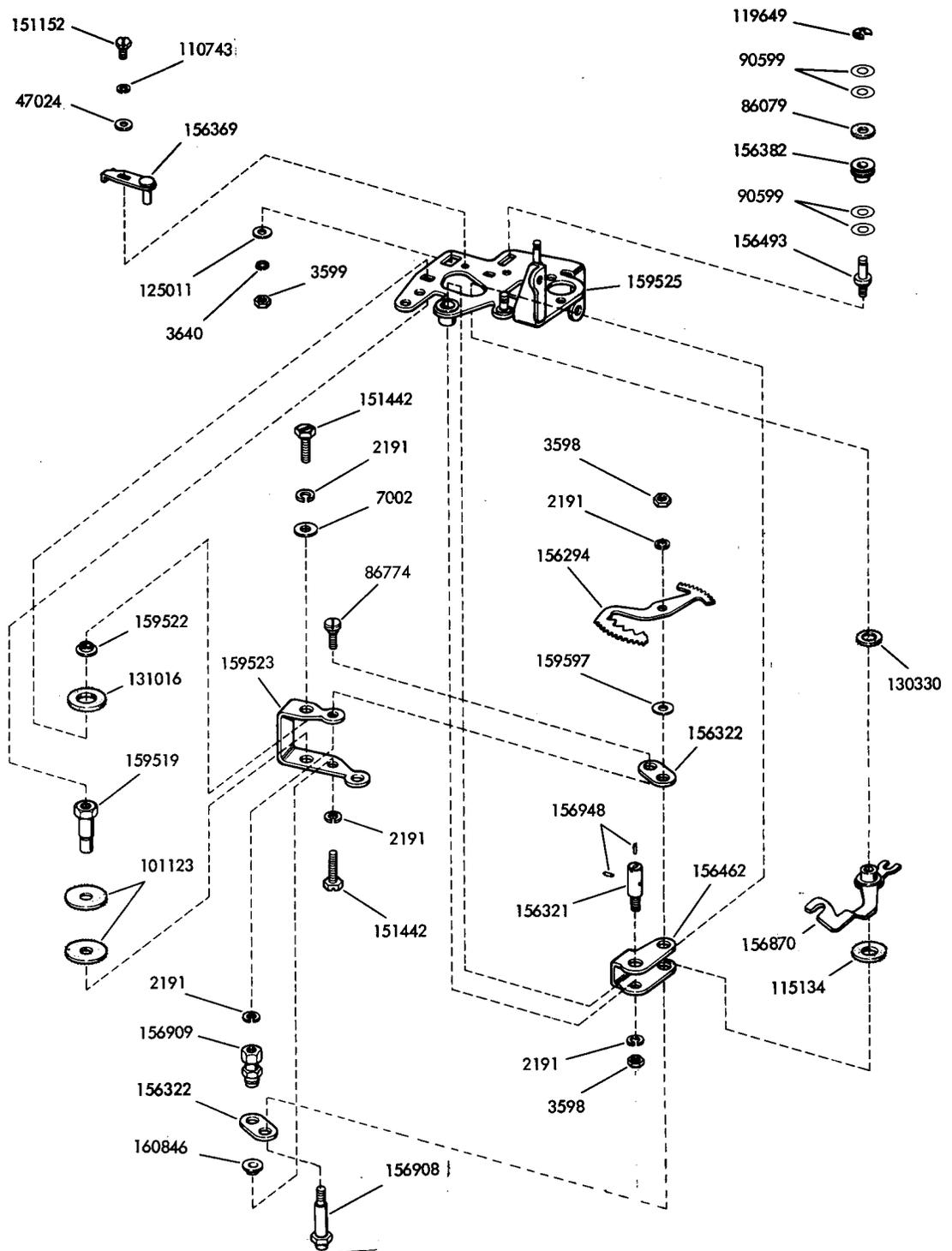
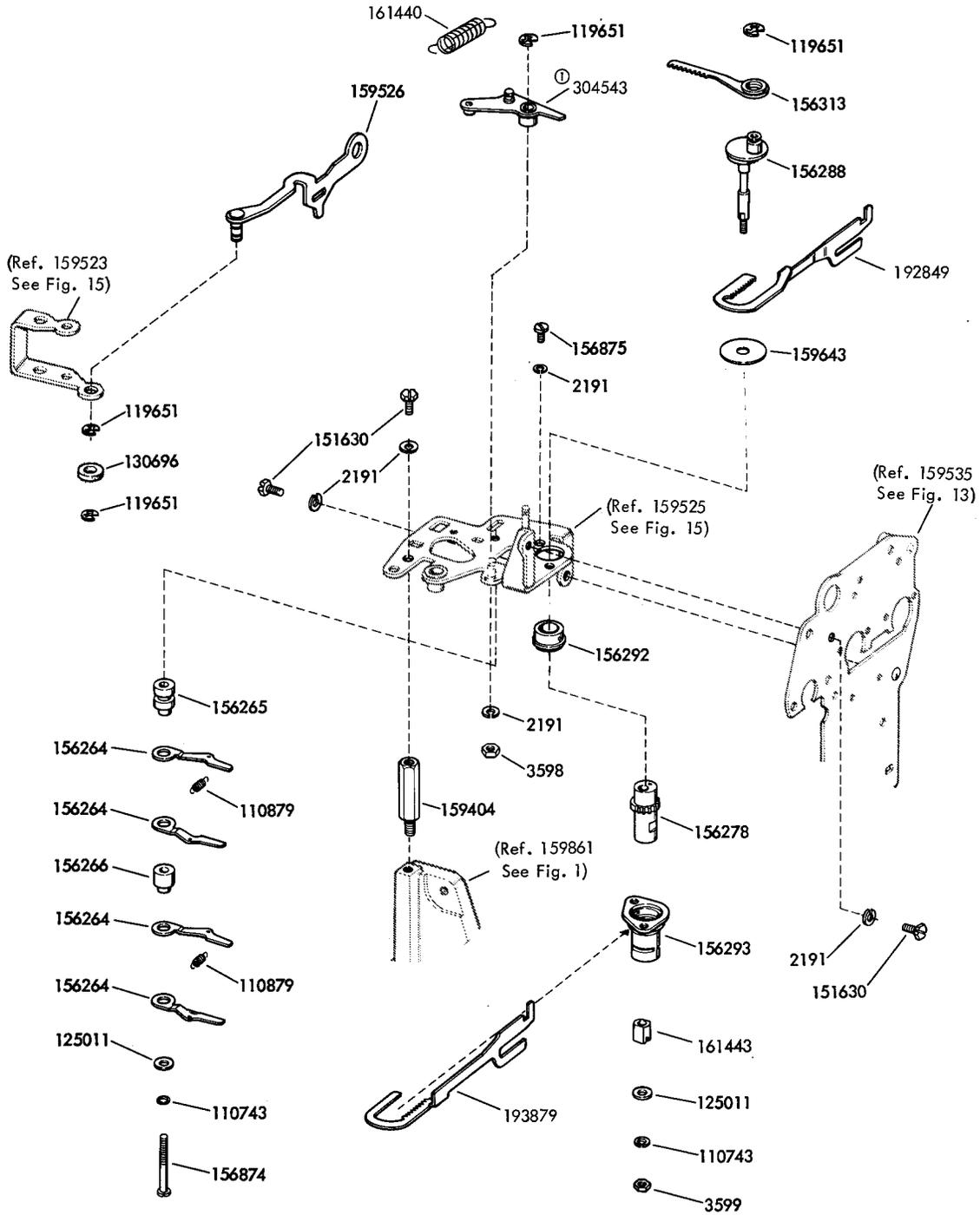


FIGURE 15. AXIAL POSITIONING MECHANISM



① Early Design Parts

FIGURE 16. AXIAL POSITIONING MECHANISM



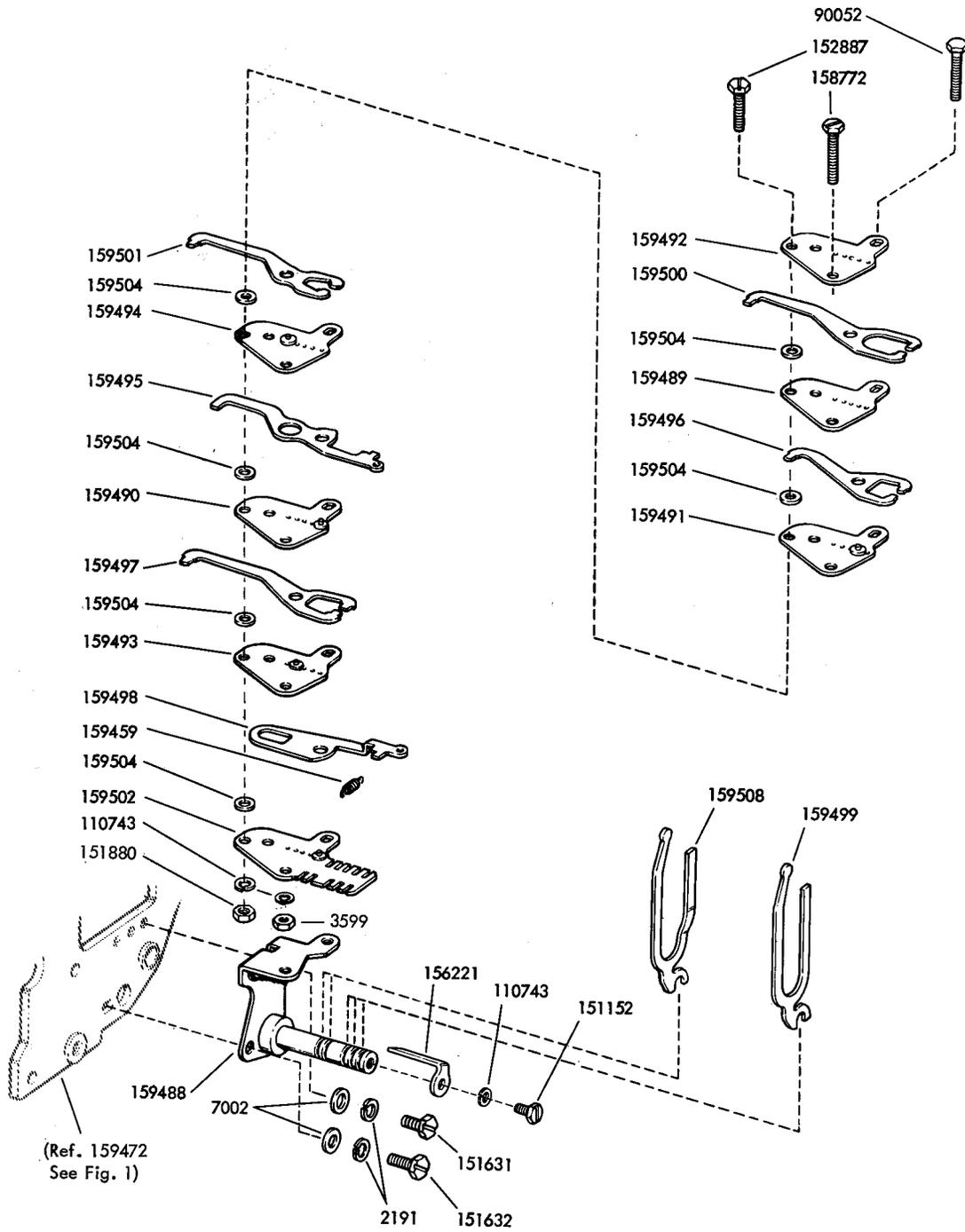
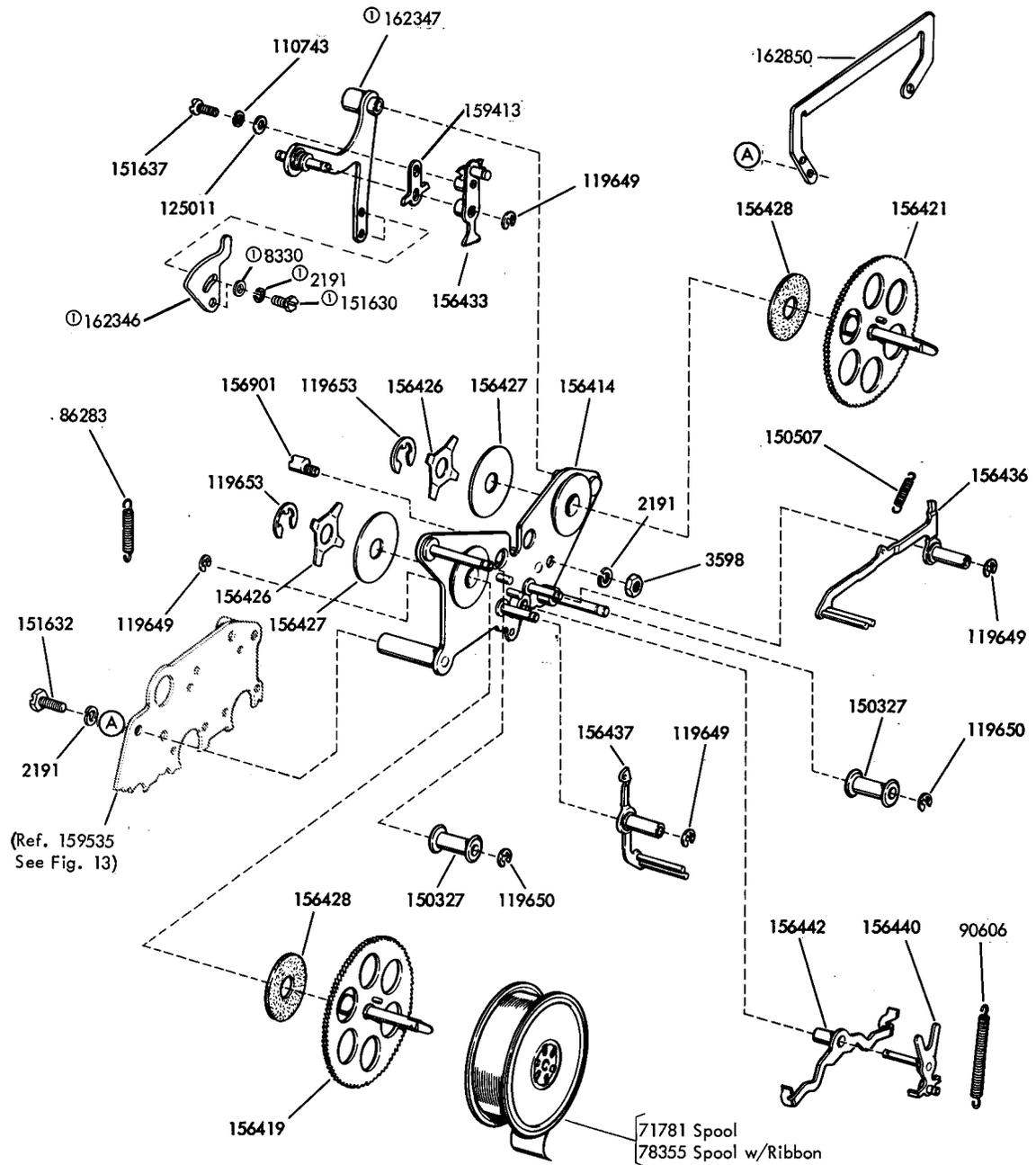


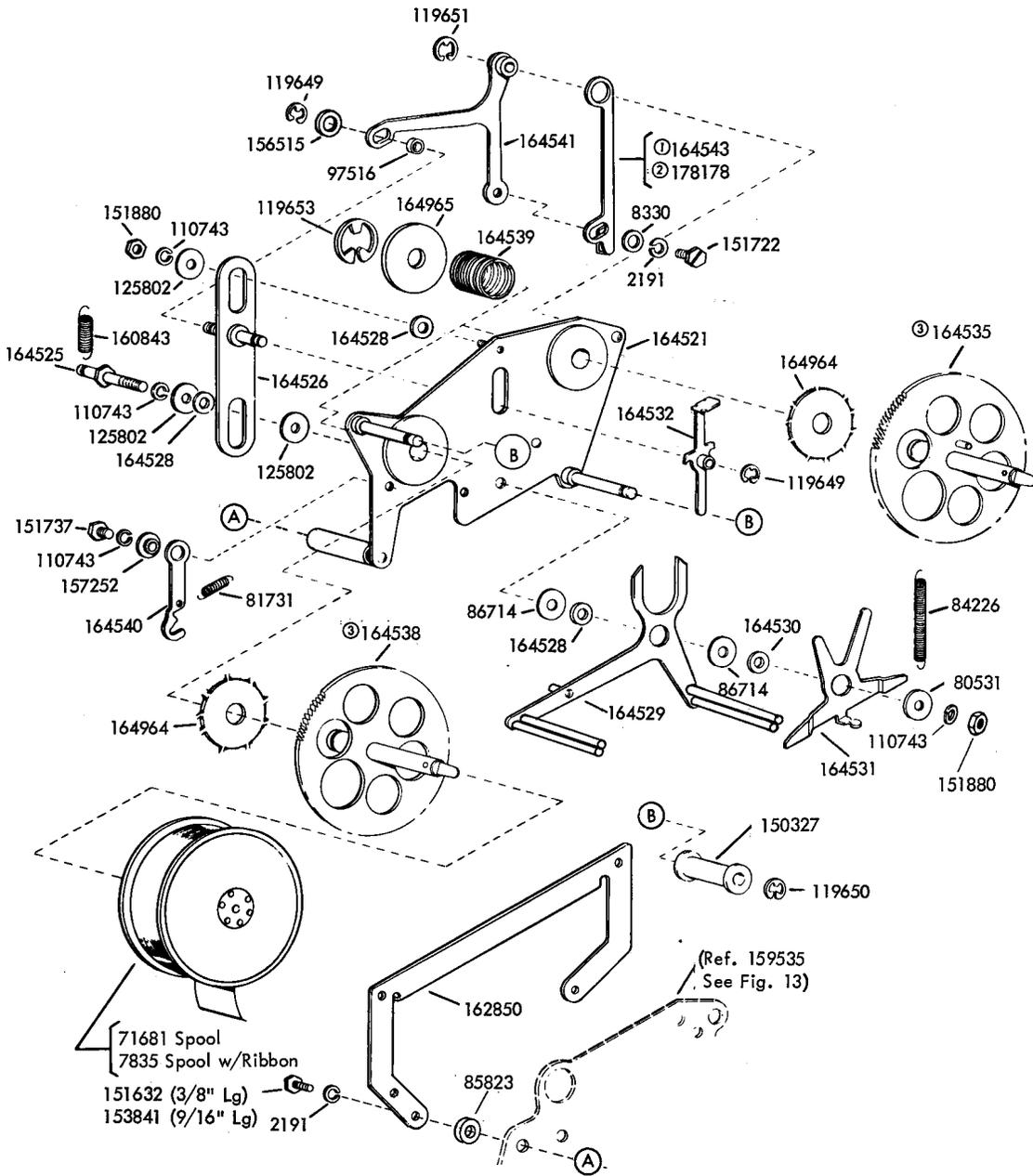
FIGURE 18. TRANSFER MECHANISM



Note:  
For Latest Design Ribbon Feed Mechanism See Figure 19.

Ⓞ 154325 Modification Kit to provide  
LPR with Adjustable Ribbon Drive Arm

FIGURE 19. RIBBON FEED MECHANISM (EARLY DESIGN)



For Early Design Ribbon Feed Mechanism See Figure 18.

- ① Peculiar to units equipped with spring retracted Punch pins
- ② Peculiar to units equipped with power retracted Punch pins
- ③ 179579 Decalcomania which shows direction of "Ribbon to Roller" is available.

FIGURE 20. RIBBON FEED MECHANISM (LATER DESIGN)

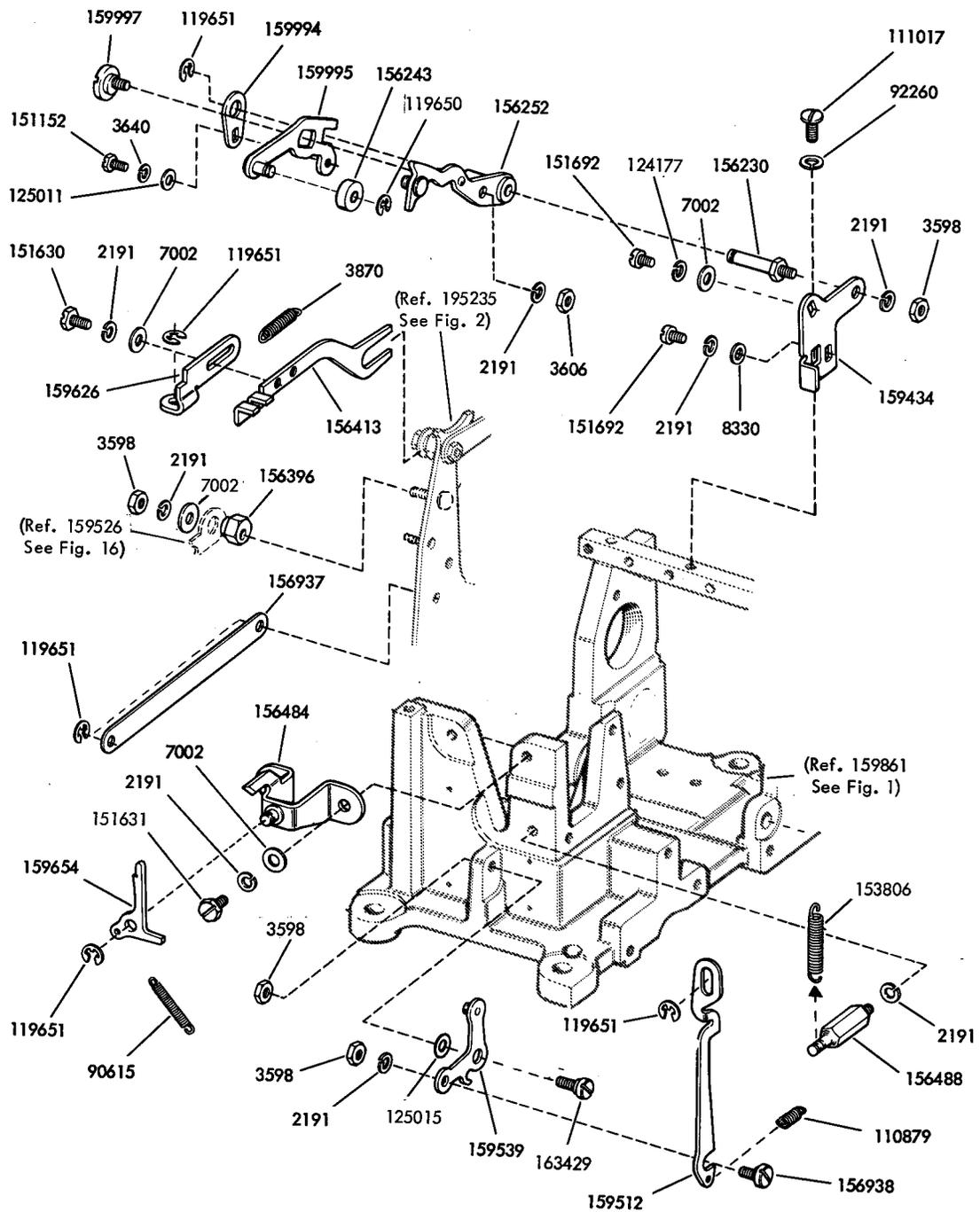


FIGURE 21. TYPING MECHANISM

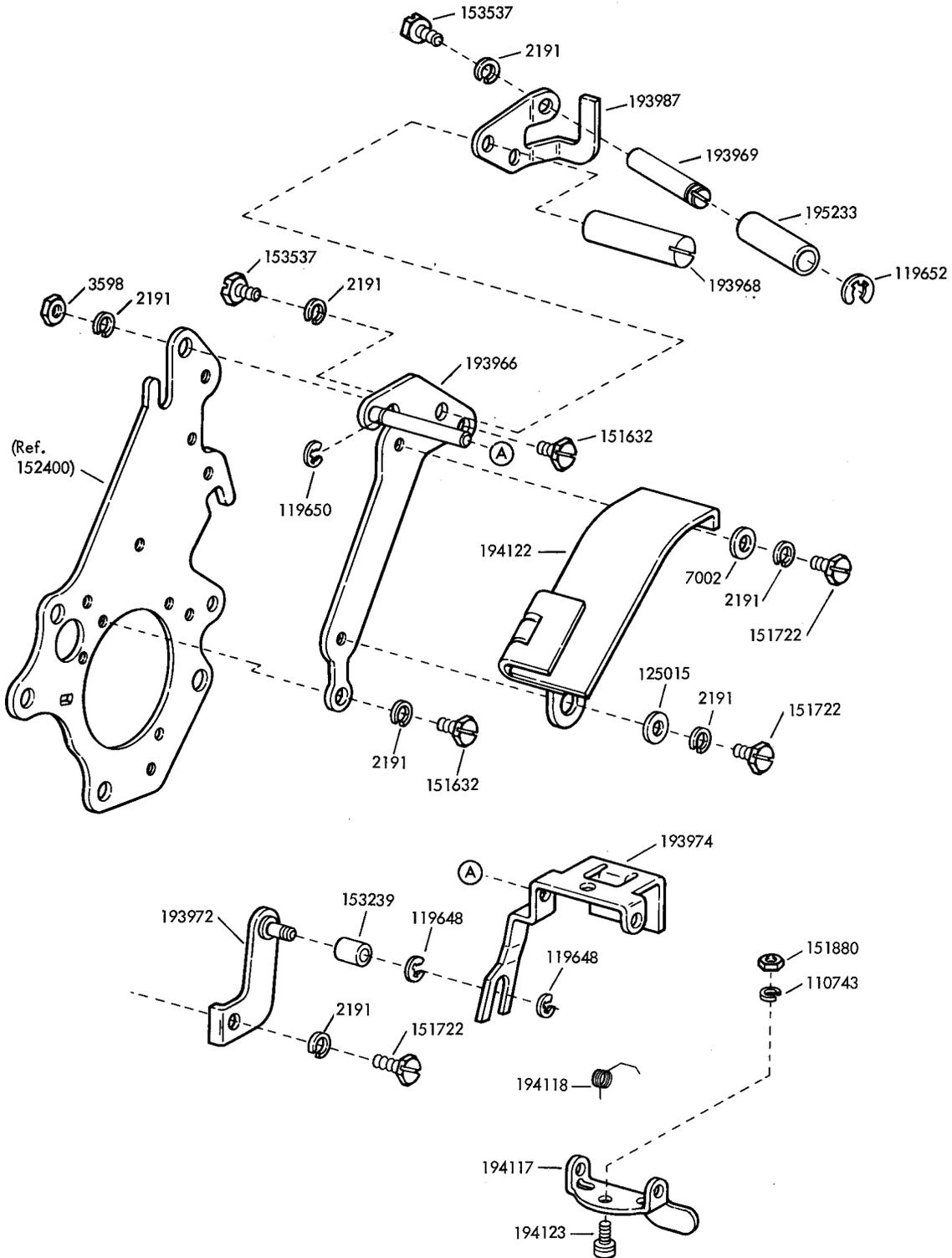


FIGURE 22. TAPE DEPRESSOR MECHANISM

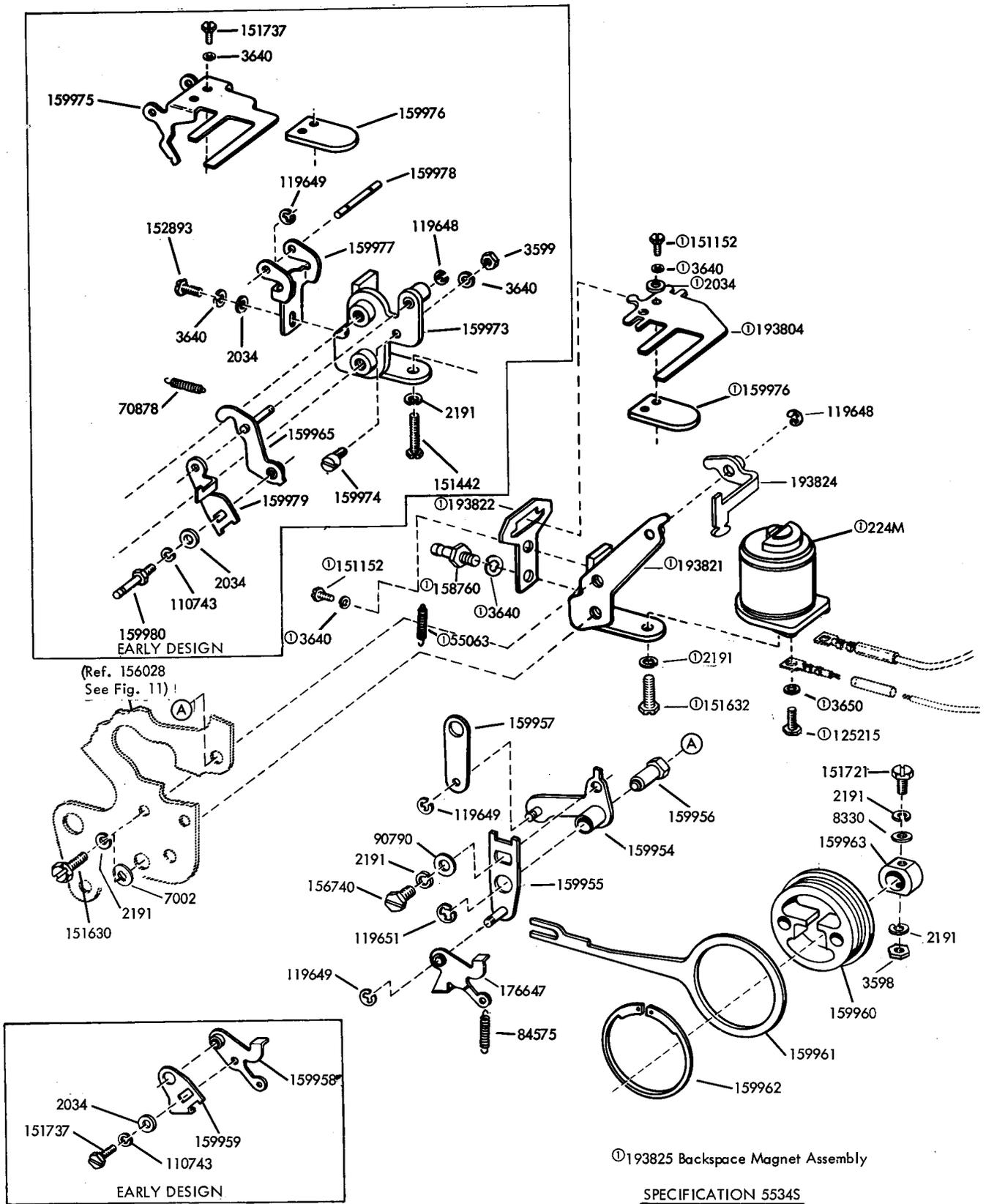


FIGURE 23. 159364 MODIFICATION KIT TO ADD POWER DRIVE TO BACKSPACE

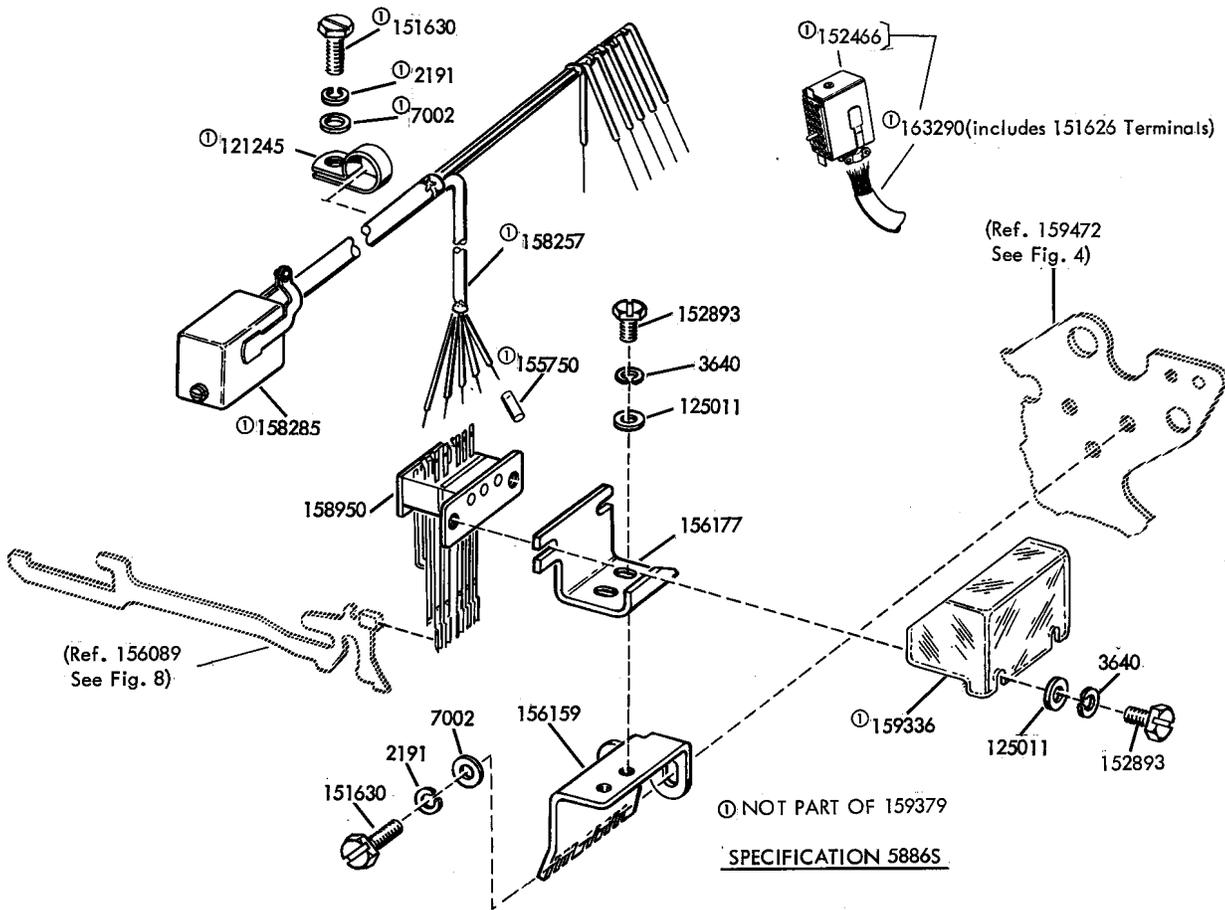


FIGURE 24. 159379 MODIFICATION KIT TO ADD "MAKE ONLY" CODE READING CONTACTS

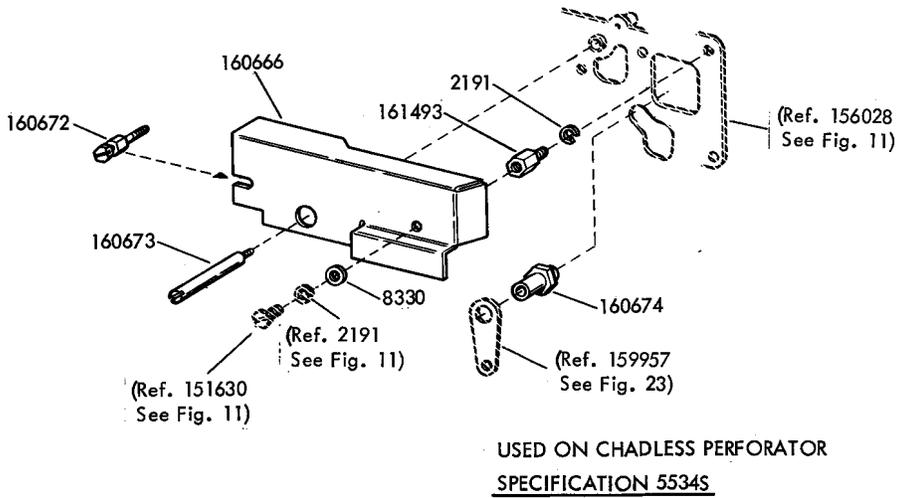


FIGURE 25. 160881 MODIFICATION KIT TO ADD GUARD TO COVER BACKSPACE MECHANISM

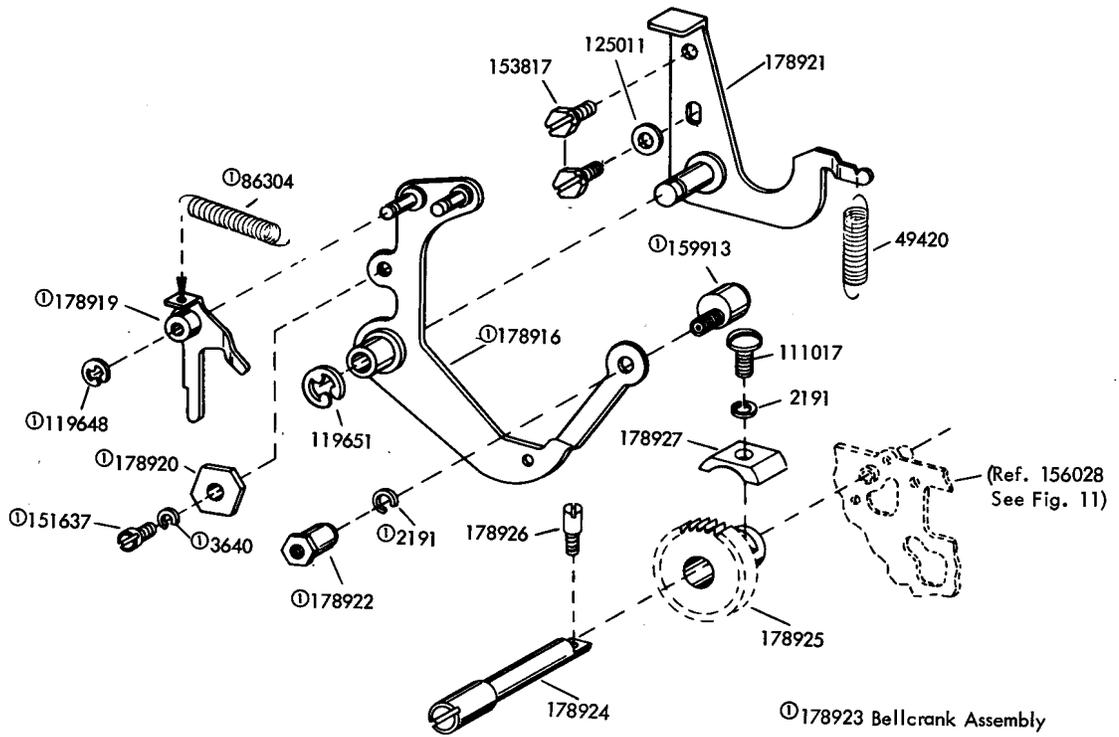


FIGURE 26. 178917 MODIFICATION KIT TO PROVIDE BACKSPACE MECHANISM FOR FULLY PERFORATED TAPE AND PRINTING BETWEEN FEED HOLES

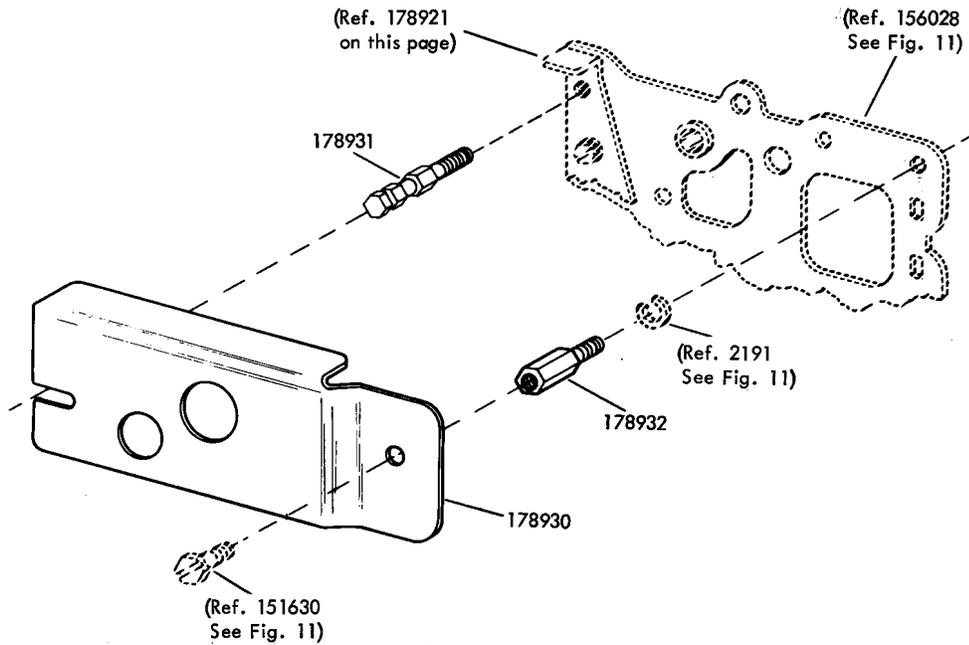
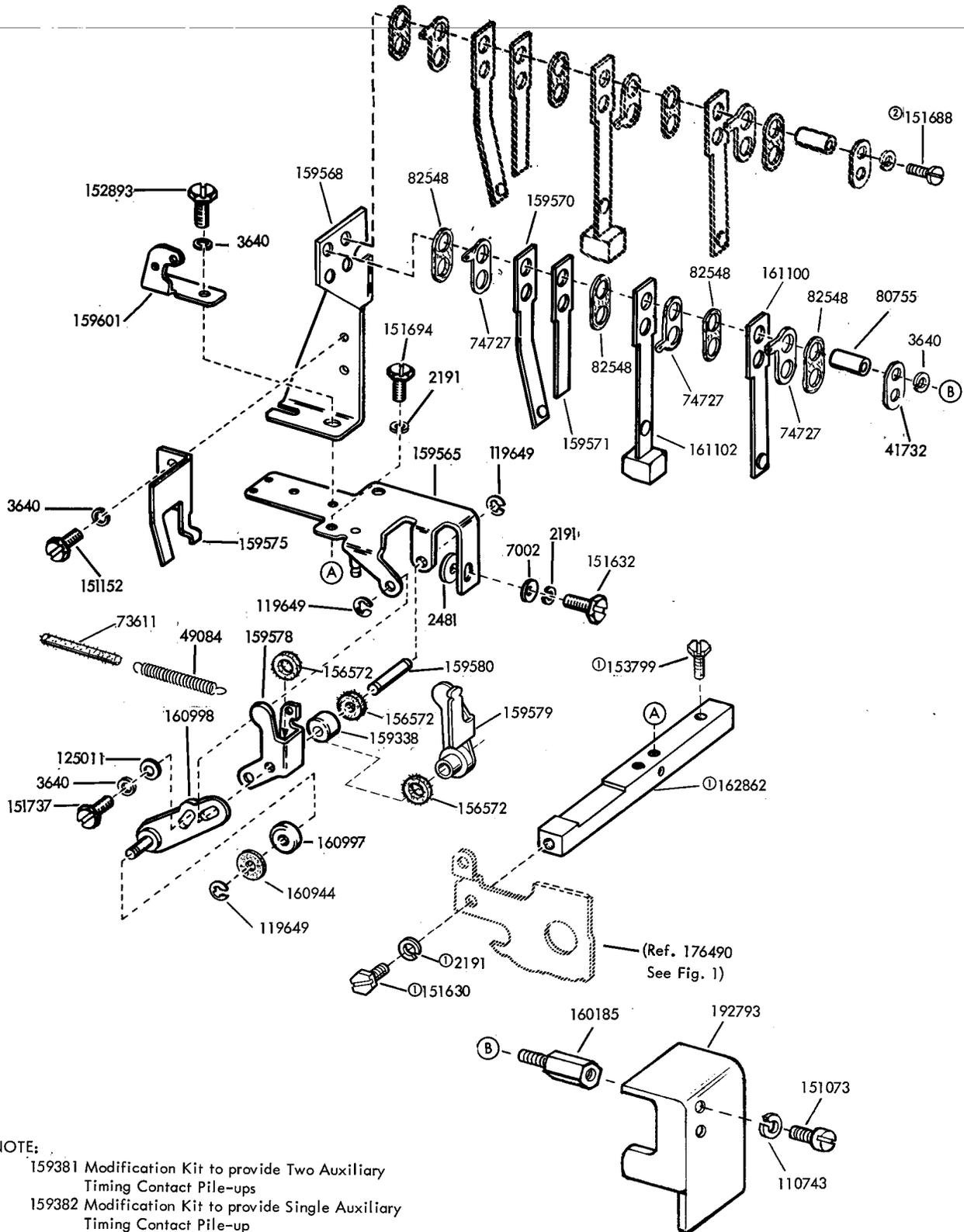


FIGURE 27. 178918 MODIFICATION KIT TO PROVIDE GUARD FOR BACKSPACE MECHANISM



NOTE:  
 159381 Modification Kit to provide Two Auxiliary  
 Timing Contact Pile-ups  
 159382 Modification Kit to provide Single Auxiliary  
 Timing Contact Pile-up

SPECIFICATION 58865

ⓐ Not Part of 159381 or 159382 Modification Kits  
 ⓑ Used with only the 159381 Modification Kit

FIGURE 28. 159381 AND 159382 MODIFICATION KITS TO ADD AUXILIARY TIMING CONTACT

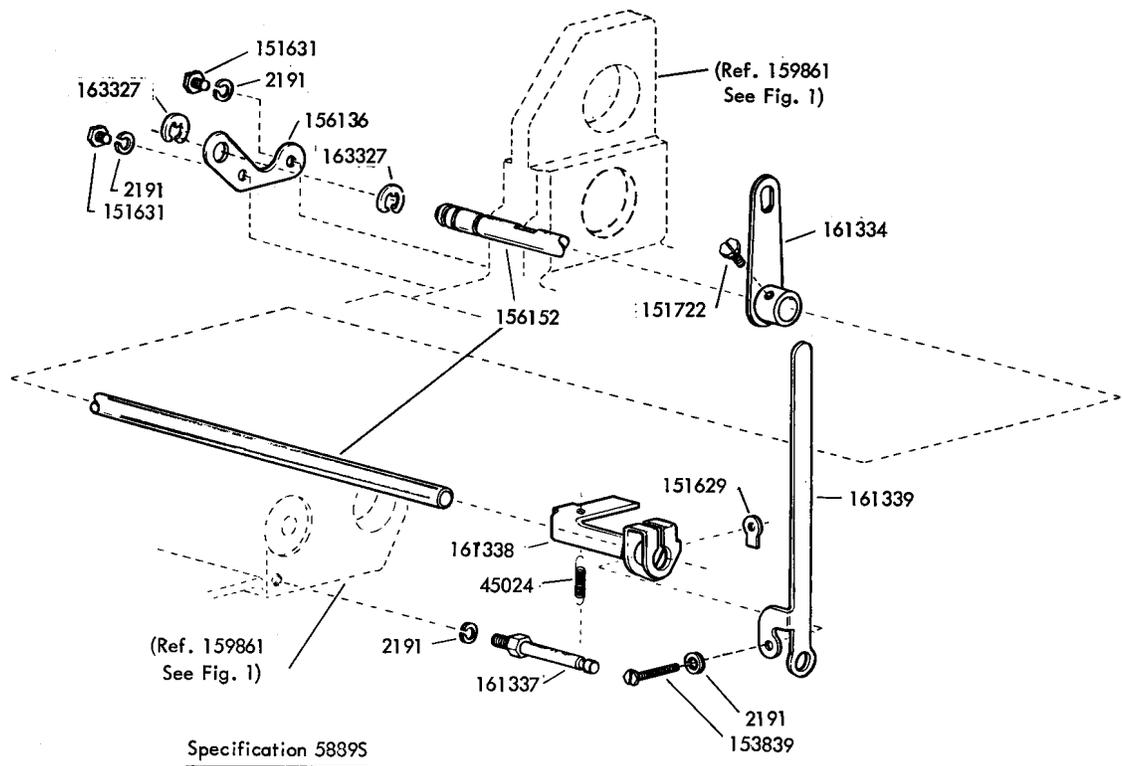


FIGURE 29. 161340 MODIFICATION KIT TO ADD MANUAL INTERFERING LETTERS TAPE FEED-OUT

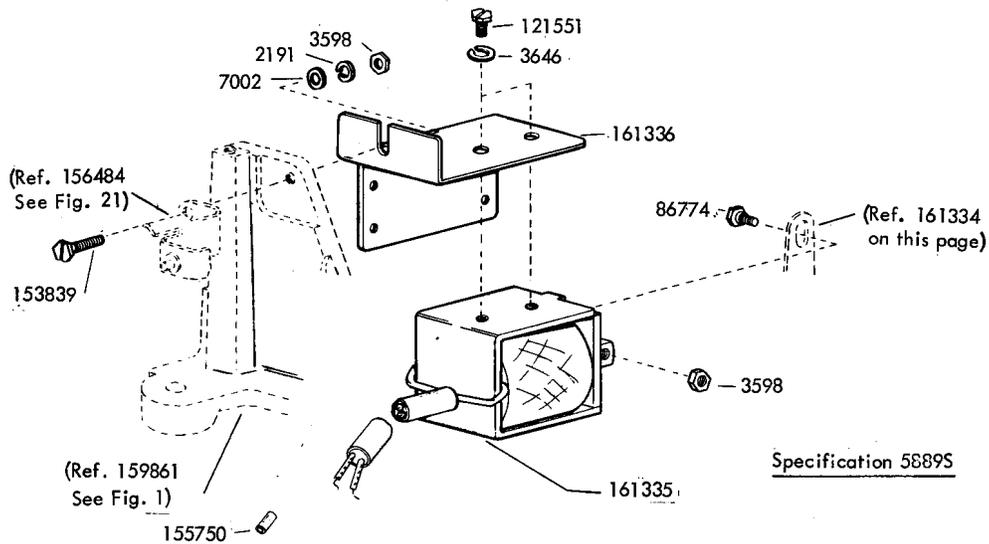
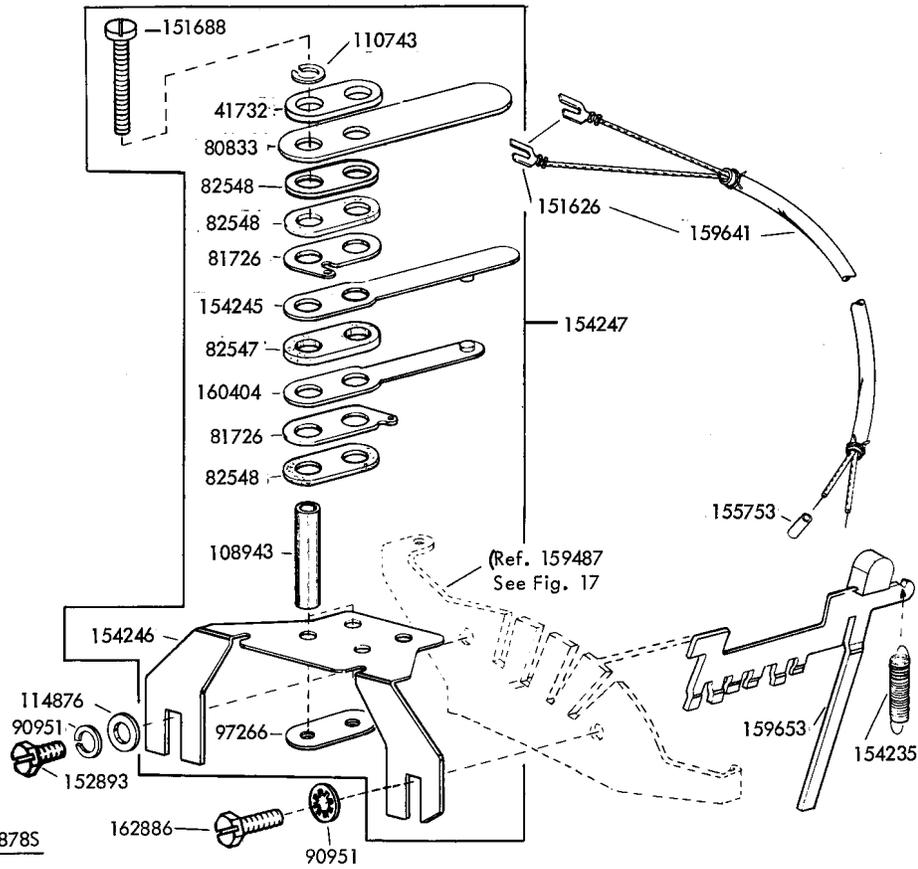
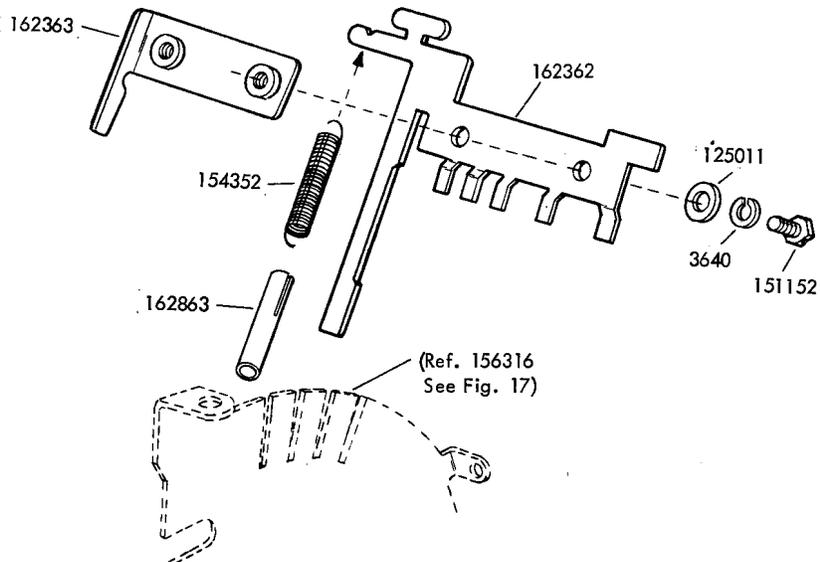


FIGURE 30. 161341 MODIFICATION KIT TO ADD SOLENOID OPERATION TO LETTERS FEED-OUT



SPECIFICATION 58785

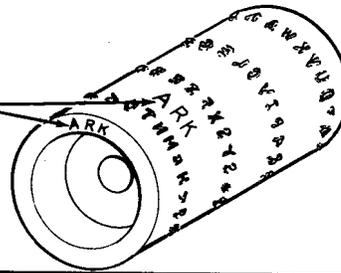
FIGURE 31. 159360 MODIFICATION KIT TO ADD SIGNAL BELL CONTACT (ON UPPER CASE "S")



SPECIFICATION 59095

FIGURE 32. 162375 MODIFICATION KIT TO ADD "UNSHIFT ON SPACE"

Typewheel Code may be found in either of two locations.



TYPEWHEEL ARRANGEMENTS													
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
ABP	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
ABW	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	ARW	163683
ACF	175612	AHF	307323	AYM	175533	ACH	175614	AHR	307331	AZN	175561	AWB	163685
ACL	175617	AHN	307329	AYR	175536	ACJ	175615	AHV	307335	AZV	175567	AWE	163688
ACM	175618	AHP	307330	AYV	175543	ACK	175616	AJB	307341	BRB	175701	AWP	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	AWZ	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	AJW	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	BXK	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				
AFG	175676	ARV	163684	BXA	175742	AFZ	175695	AWX	175583				
AFH	175677	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				

FIGURE 33. TYPEWHEELS

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
224M	Coil, Magnet 23	90535	Washer, Felt 17	150034	Disk, 2 Stop Clutch 8
1036	Nut, 6-40 Hex 11	90560	Washer, Flat 9	150040	Screw, 6-40 x 5/8 Fil 7, 8
2034	Washer, Flat 23	90573	Spring 3, 4	150043	Shoe, Secondary Clutch 7, 8
2191	Washer, Lock 2 to 9, 11 to 27	90599	Shim, .008" Thk 15	150044	Shoe, Primary Clutch 7, 8
2199	Nut, 7/16-32 Hex 14	90606	Spring 2, 19	150048	Spring 2, 5
2407	Washer, Lock 14	90615	Spring 21	150241	Spring 2, 5, 7, 8
2481	Washer, Flat 26	90790	Washer, Flat 23	150327	Roller, Ribbon 19, 20
2669	Washer, Lock 3, 4, 6	90951	Washer, Lock 17, 28	150356	Lever, Trip 2, 5
3438	Washer, Flat 4, 6	91120	Spring 11	150507	Spring 19
3598	Nut, 6-40 Hex 2, 3, 4, 5, 9, 11, 12, 14, 15, 16, 19, 21, 22, 23, 27	92260	Washer, Lock 21	150830	Bushing, Shoulder 8
3599	Nut, 4-40 Hex 3, 9, 13, 15, 16, 18, 23	93108	Washer, Lock 2, 4	150841	Bearing 8
3603	Nut, 1/4-32 Hex 2, 4	93117	Washer, Lock 11	150923	Washer, Felt 12
3606	Nut, 6-40 Hex 3, 9, 21	93356	Washer, Felt 2, 5, 11	150966	Insulator, Terminal Block 6
3639	Washer, Lock 4	96717	Screw, 4-40 Shoulder 3	150990	Washer, Felt 13
3640	Washer, Lock 3, 4, 8, 13, 14, 15, 17, 21, 23, 24, 25, 26, 28	97266	Plate, Clamp 28	151073	Screw, 4-40 x 5/32 Fil 2, 5, 9, 10, 12, 26
3646	Washer, Lock 27	97516	Bushing 20	151152	Screw, 4-40 x 3/16 Hex 2, 5, 11, 15, 17, 18, 21, 23, 26, 28
3650	Washer, Flat 23	101123	Washer, Felt 15	151222	Washer, Felt 12
3870	Spring 21	108943	Bushing 28	151246	Washer, Flat 3, 4
5363	Spring, Compression 11	110434	Screw, 4-40 x 3/16 Fil 2	151335	Stud 6
6970	Nut, 3/8-32 Hex 6	110437	Spring 17	151346	Screw, 6-40 x 3/8 Fil 4
7002	Washer, Flat 2 to 9, 11, 13, 14, 15, 17, 18, 21 to 24, 26, 27	110743	Washer, Lock 2, 5, 7 to 20, 22, 23, 26, 28	151362	Wick, Felt 3, 4
7835	Ribbon w/Spool, Black 19, 20	110879	Spring 13, 16, 21	151398	Spring 17
8330	Washer, Flat 2, 3, 5, 9, 12, 19, 20, 21, 23, 24	111017	Screw, 6-40 x 5/16 Fil 6, 21, 25	151415	Block, Terminal 6
22746	Spring 14	112626	Nut, 10-32 Hex 14	151416	Nut, 6-40 Hex 6, 11, 12
33765	Washer, Flat 9	112634	Spring 17	151442	Screw, 6-40 x 1/2 Hex 3, 14, 15, 23
41382	Spring 11	114876	Washer, Flat 17, 28	151620	Strap, Motor Mounting 6
41543	Bearing, Ball 2, 4	115122	Washer, Felt 14	151621	Screw, 6-32 x 3/4 Rd 6
41732	Plate, Clamp 26, 28	115134	Washer, Felt 15	151622	Nut, 6-32 Sq 6
42823	Washer, Flat 7, 8	115941	Washer, Flat 2, 4	151626	Terminal 6, 24, 28
45024	Spring 27	119647	Ring, Retaining 11	151629	Nut, 6-40 Lug 2, 5, 12, 14, 27
47024	Washer, Flat 15	119648	Ring, Retaining 4, 9, 10, 11, 22, 23, 25	151630	Screw, 6-40 x 1/4 Hex 2, 7, 8, 11, 13, 14, 16, 19, 21, 23, 24, 25, 26
49084	Spring 26	119649	Ring, Retaining 11, 14, 15, 17, 19, 20, 23, 26	151631	Screw, 6-40 x 5/16 Hex 2 to 6, 8, 9, 11, 13, 17, 18, 21, 27
49420	Spring 25	119650	Ring, Retaining 12, 19 to 22	151632	Screw, 6-40 x 3/8 Hex 2, 3, 4, 6 to 9, 18, 19, 20, 22, 23, 26
55063	Spring 9, 10, 23	119651	Ring, Retaining 3, 9, 14, 16, 17, 20, 21, 23, 25	151637	Screw, 4-40 x 1/4 Fil 9, 19, 25
70878	Spring 9, 23	119652	Ring, Retaining 2, 3, 5, 11, 12, 22	151640	Lever, Shoe Release 7
71437	Washer, Flat 12	119653	Ring, Retaining 14, 19, 20	151657	Screw, 6-40 x 1/4 Fil 3, 5, 6
71681	Spool, Ribbon 19, 20	121100	Spring 17	151658	Screw, 6-40 x 5/16 Fil 2, 3, 4
73611	Wick, Felt 26	121245	Clamp, 5/16 ID Cable 24	151688	Screw, 4-40 x 5/8 Fil 26, 28
74553	Wick, Felt 14	121551	Screw, 8-32 x 1/4 Hex 27	151692	Screw, 6-40 x 3/16 Fil 21
74727	Terminal, Contact 26	122149	Screw, 4-40 Spl 9	151694	Screw, 6-40 x 11/32 Fil 26
76081	Washer, Flat 5	122207	Strap Assembly 6	151712	Button, Pivot 6
80531	Washer, Flat 20	124177	Washer, Lock 3, 4, 9, 11, 21	151721	Screw, 6-40 x 3/4 Hex 23
80755	Bushing, Insulating 26	125011	Washer, Flat 2, 3, 5, 9, 10, 11, 13, 15, 16, 17, 19, 21, 24, 25, 26, 28	151722	Screw, 6-40 x 3/16 Hex 9, 11, 20, 22, 27
80833	Guard, Contact Spring 28	125015	Washer, Flat 3, 12, 13, 21, 22	151724	Screw, 10-32 x 5/8 Hex 4, 6
81726	Terminal 28	125215	Screw, 4-40 x 3/16 Hex 23	151728	Spring 7
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