

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.

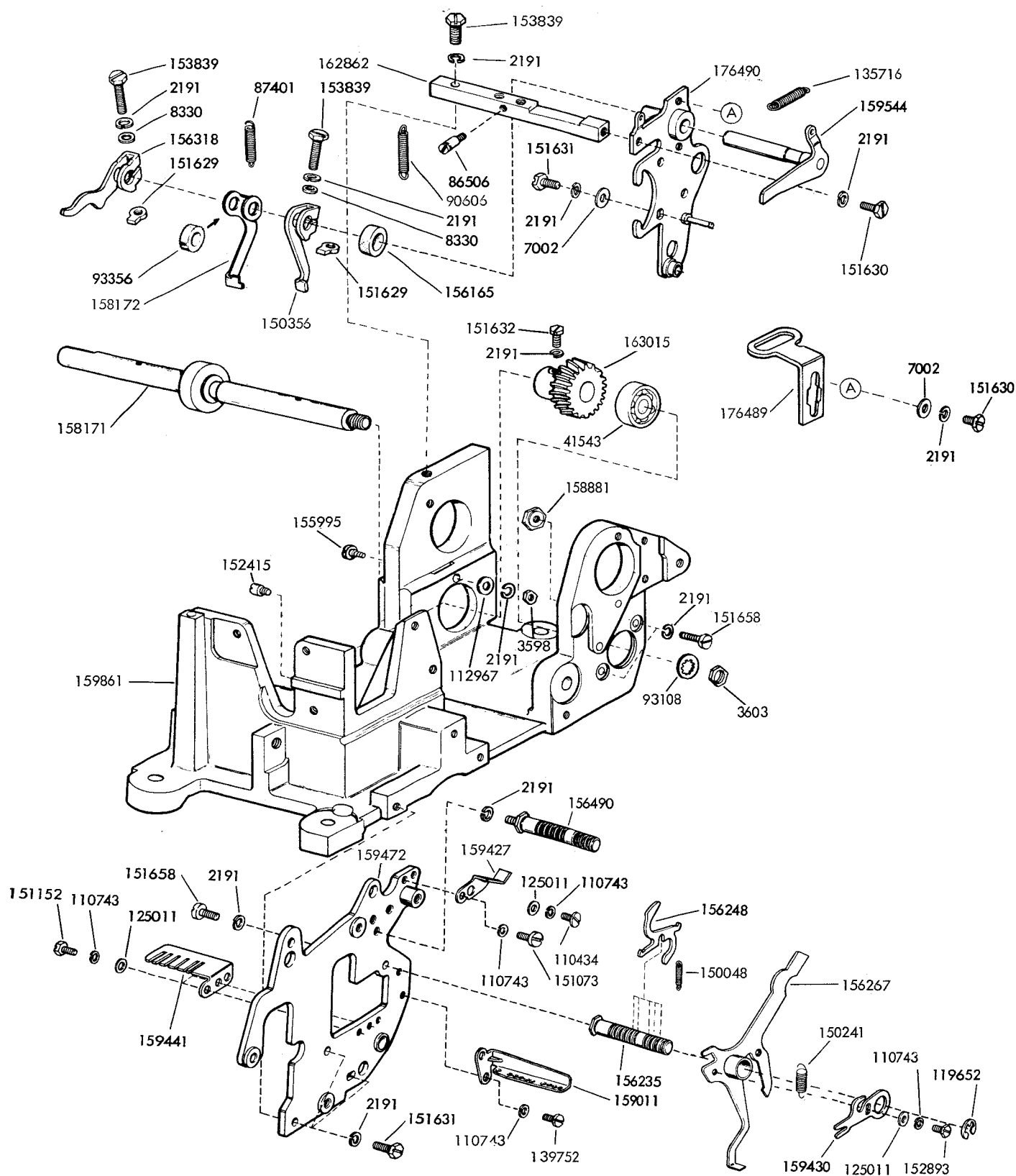
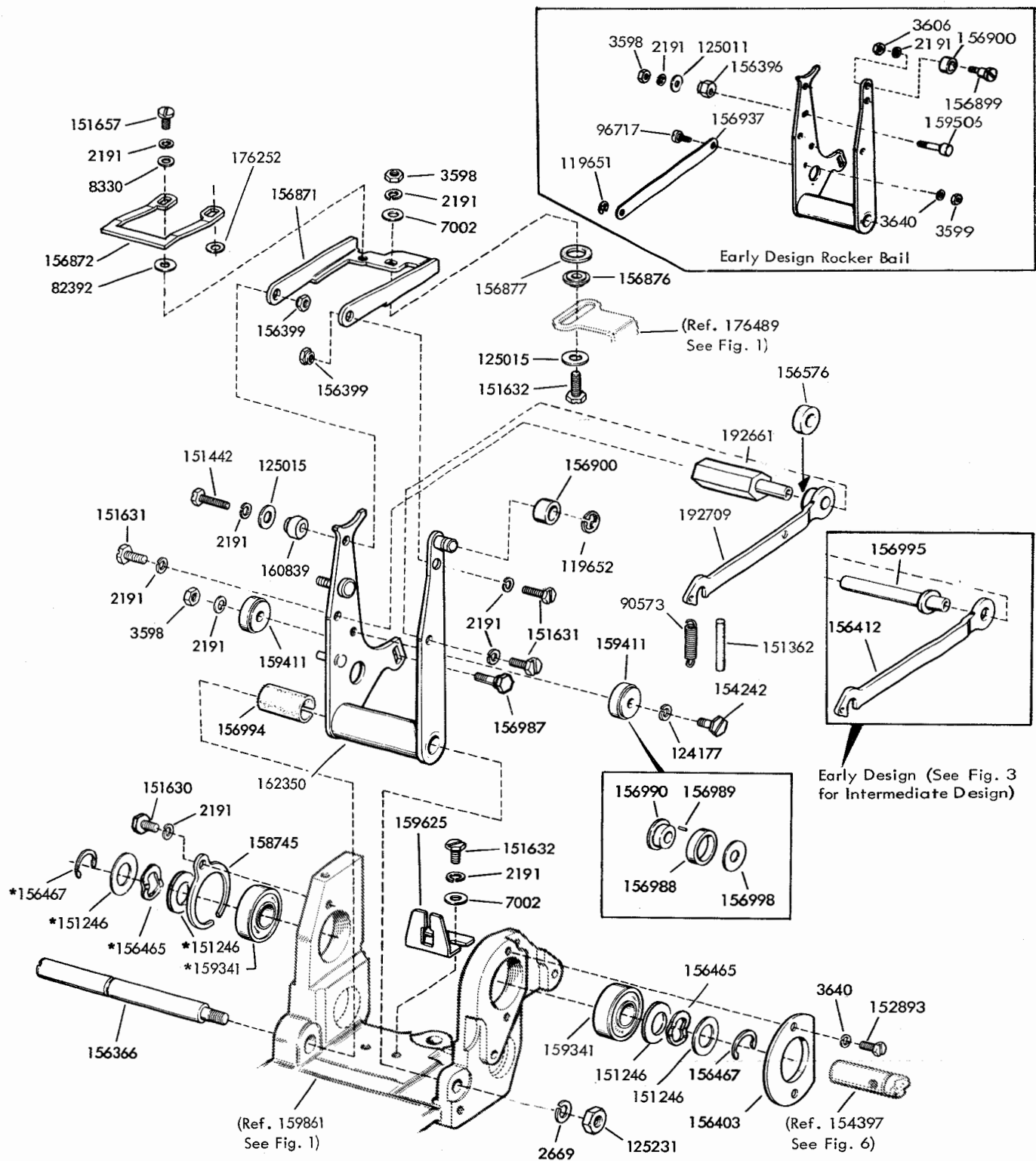


FIGURE 1. FRAME MECHANISM (TYPING PERFORATOR)



*These parts are not required with the later design shaft (154397). See Figure 6.

FIGURE 2. FRAME MECHANISM (TYPING PERFORATOR)

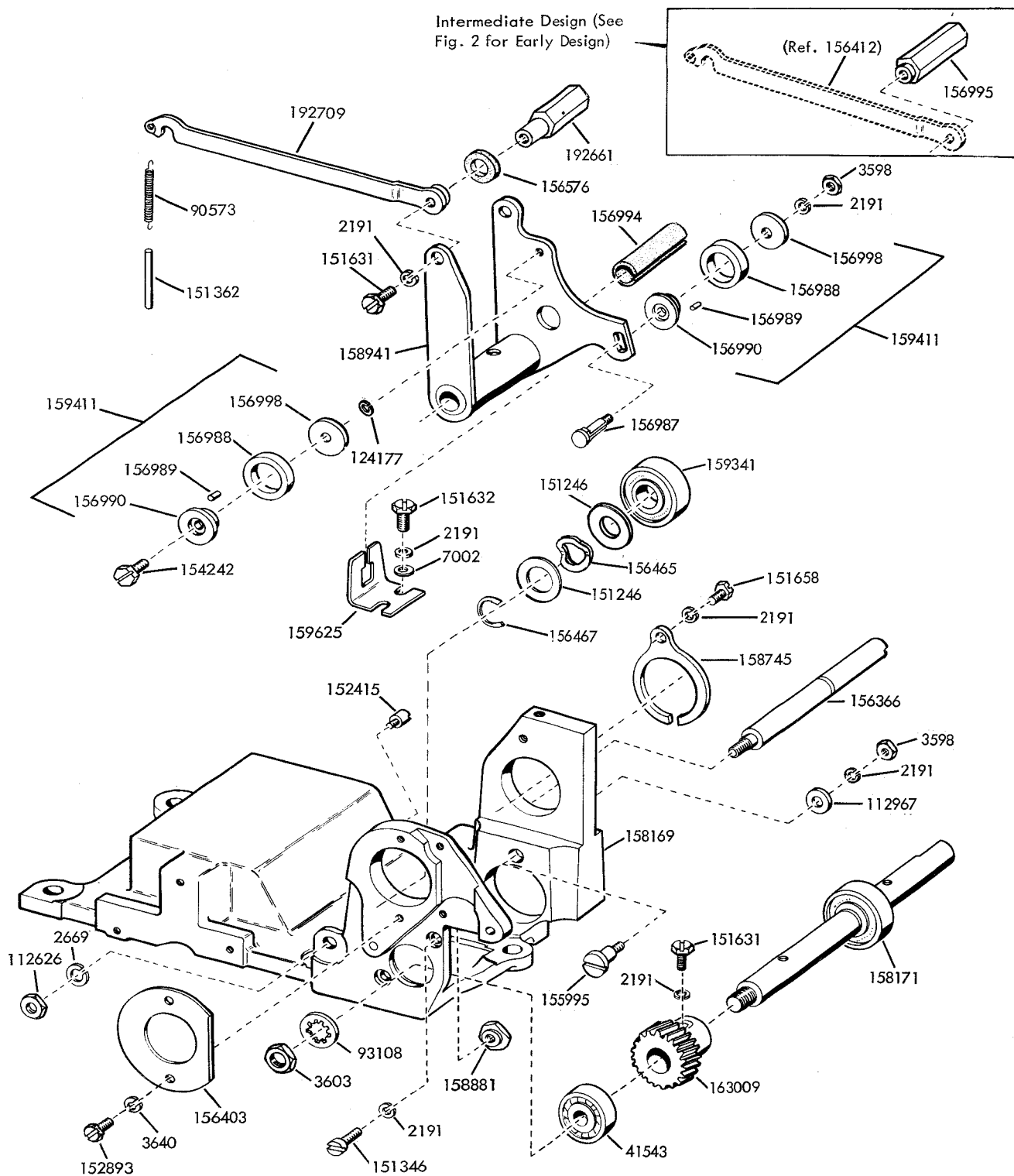
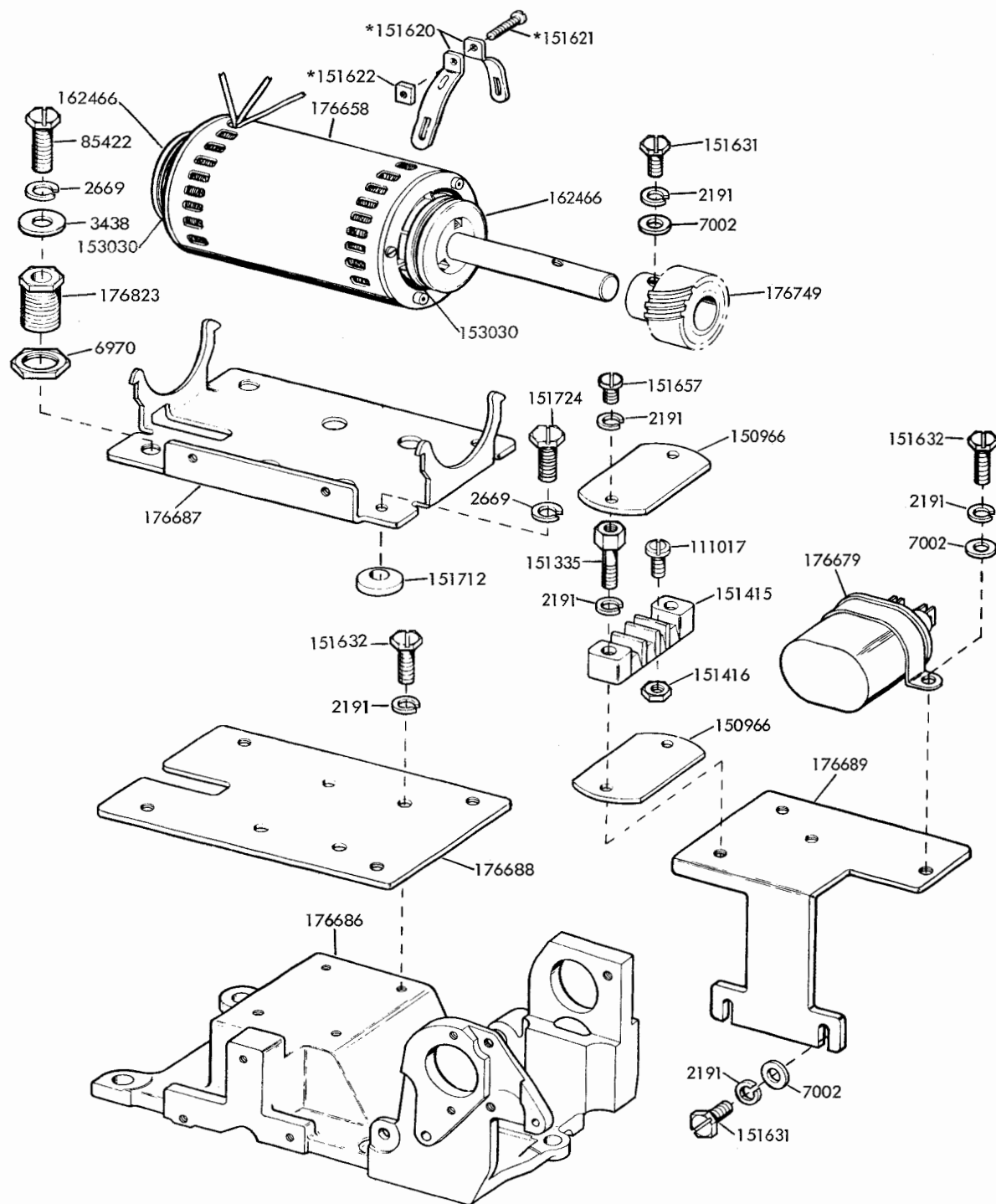


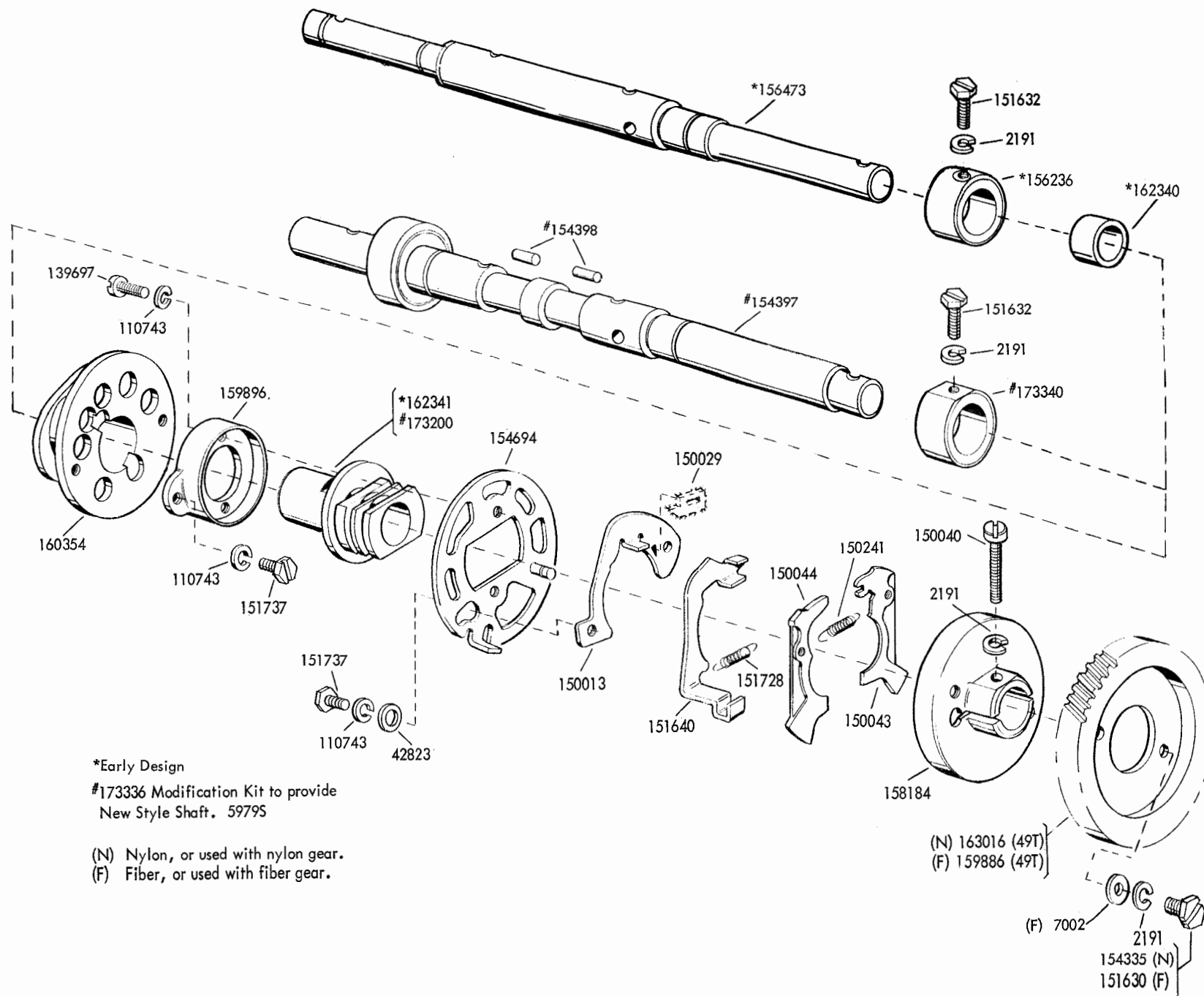
FIGURE 3. FRAME MECHANISM (NON-TYPING PERFORATOR)



*Part of 122207

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

FIGURE 6. MAIN SHAFT MECHANISM (TYPING PERFORATOR)



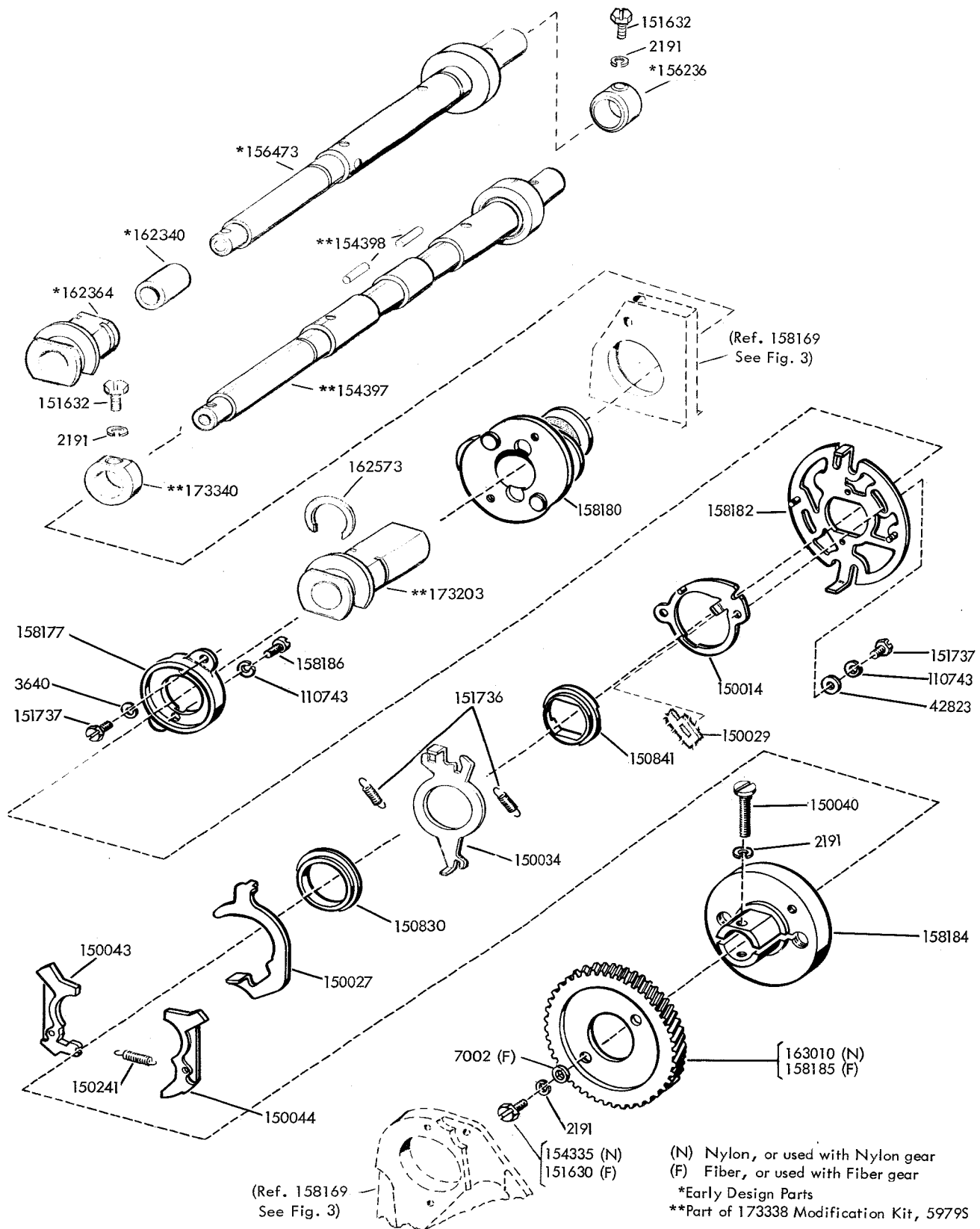


FIGURE 7. MAIN SHAFT MECHANISM (NON-TYPING PERFORATOR)

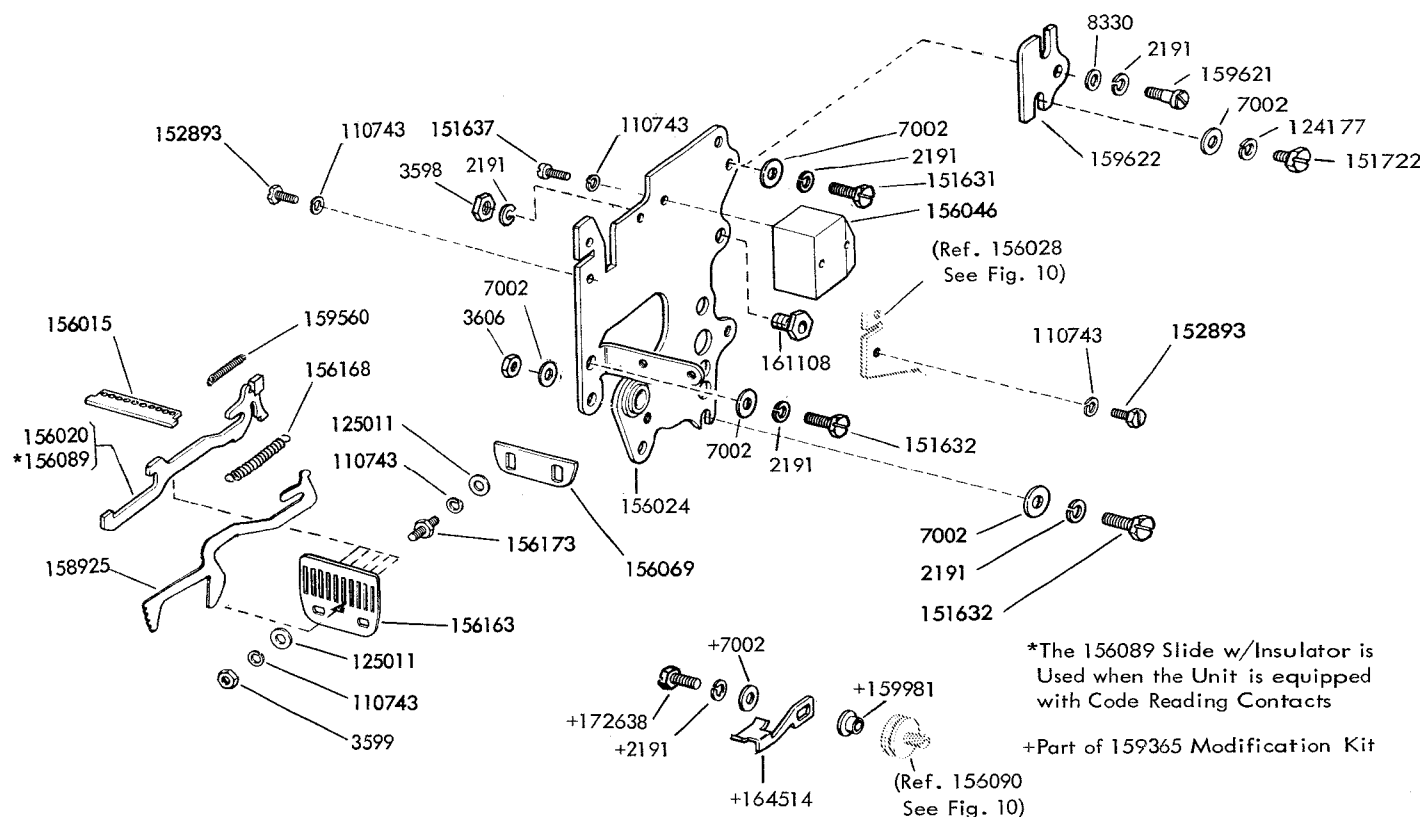


FIGURE 8. PUNCH REAR PLATE MECHANISM

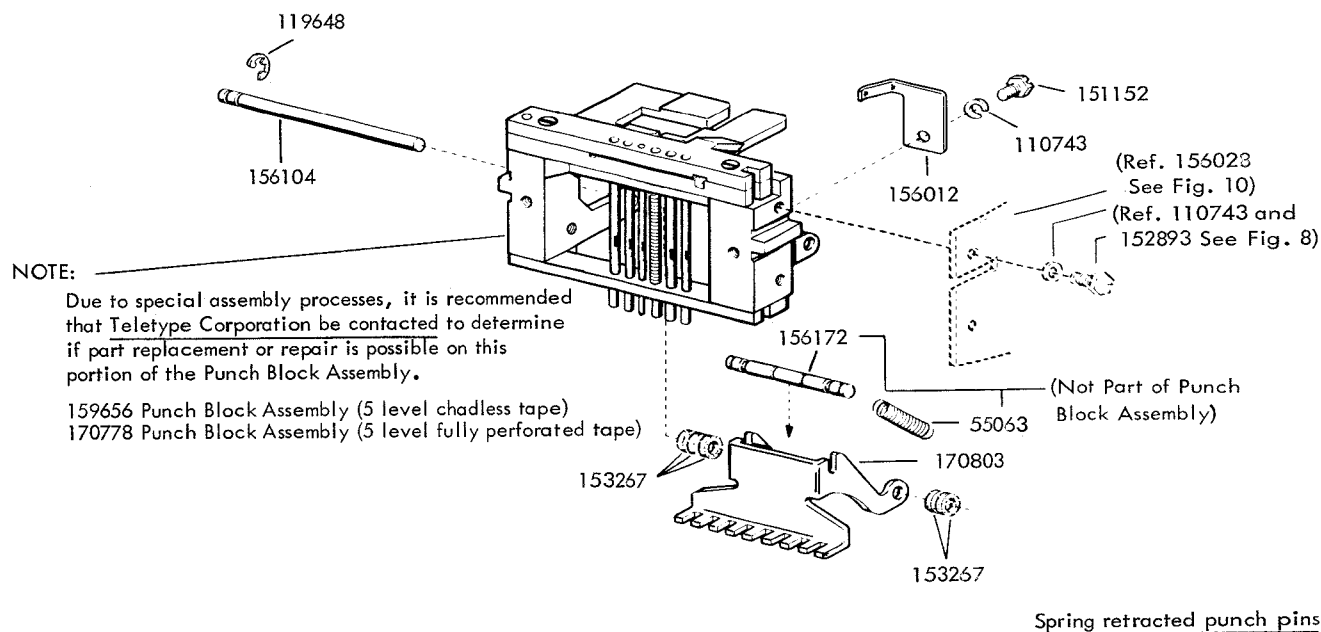
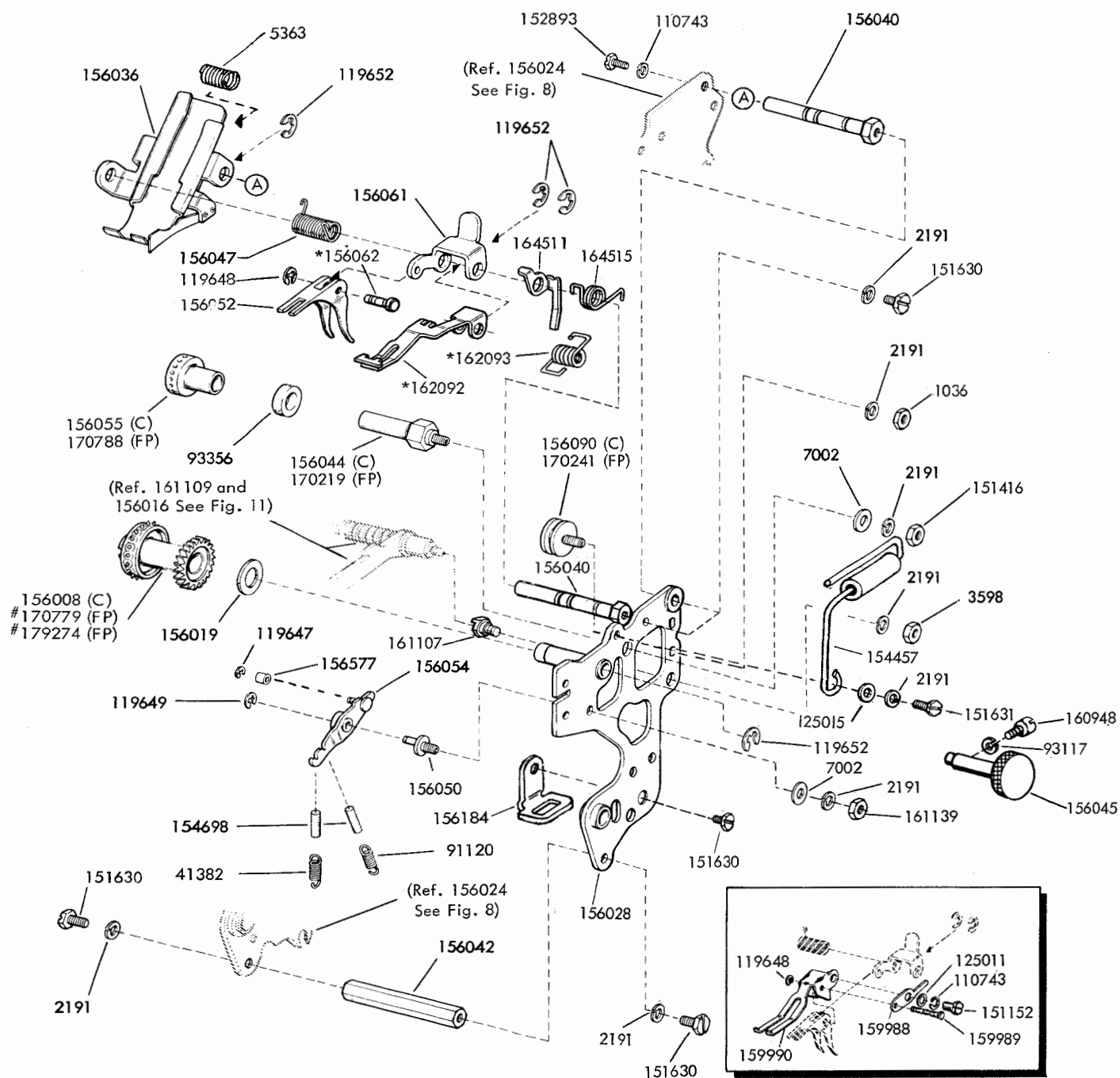


FIGURE 9. PUNCH BLOCK ASSEMBLIES



When used with the 170778 punch block assembly the 170779 feed wheel produces tape with the feed hole indent punched out. The 179274 feed wheel places the indent between the feed holes and is identified by a black dot on the shank.

OLD STYLE PARTS

*163291 Modification Kit - 5728S

(C) Chadless Tape
(FP) Fully Perforated Tape

FIGURE 10. PUNCH FRONT PLATE MECHANISM

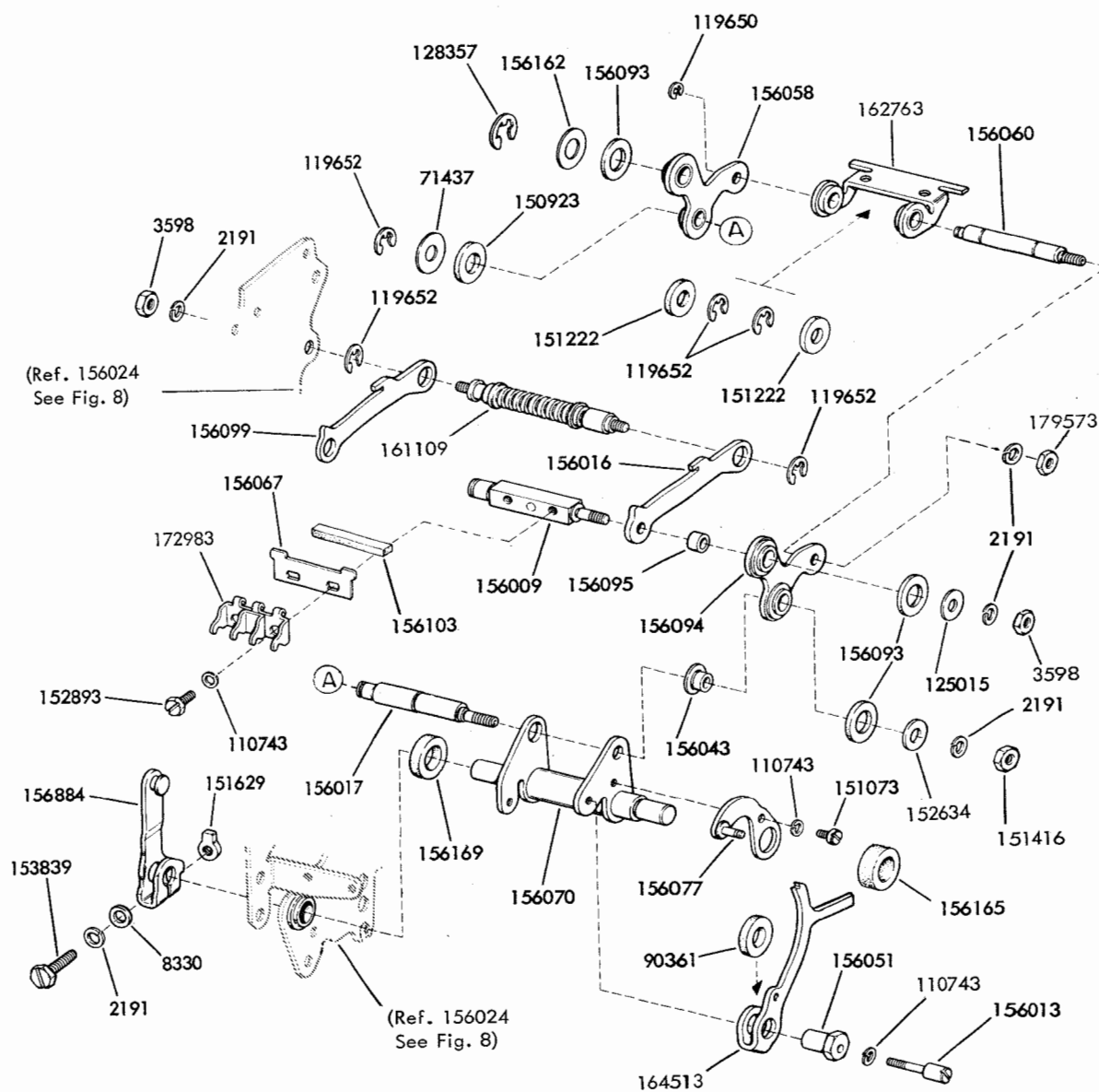


FIGURE 11. PUNCH BAIL MECHANISM

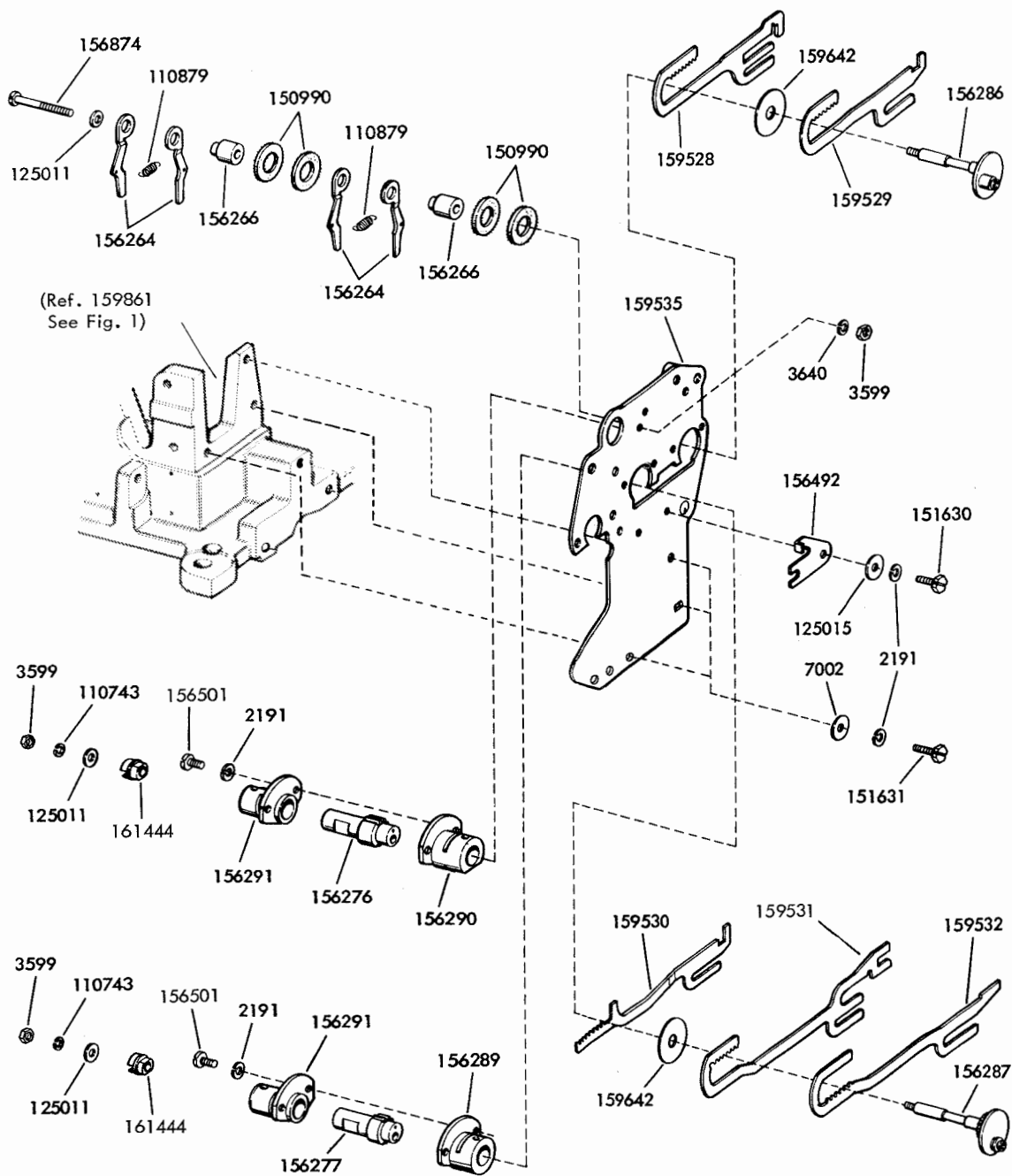


FIGURE 12. ROTARY POSITIONING MECHANISM

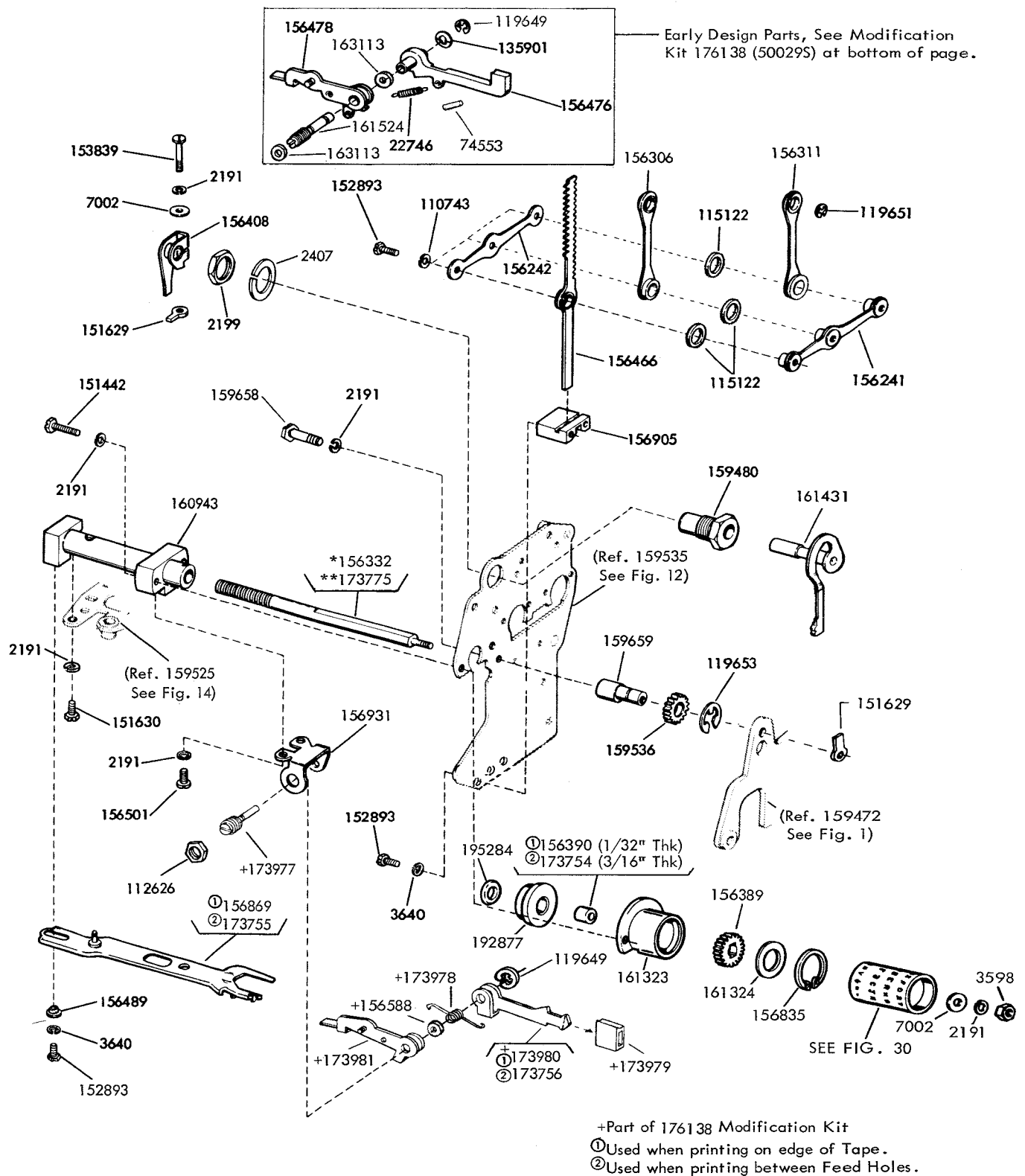


FIGURE 13. ROTARY POSITIONING MECHANISM

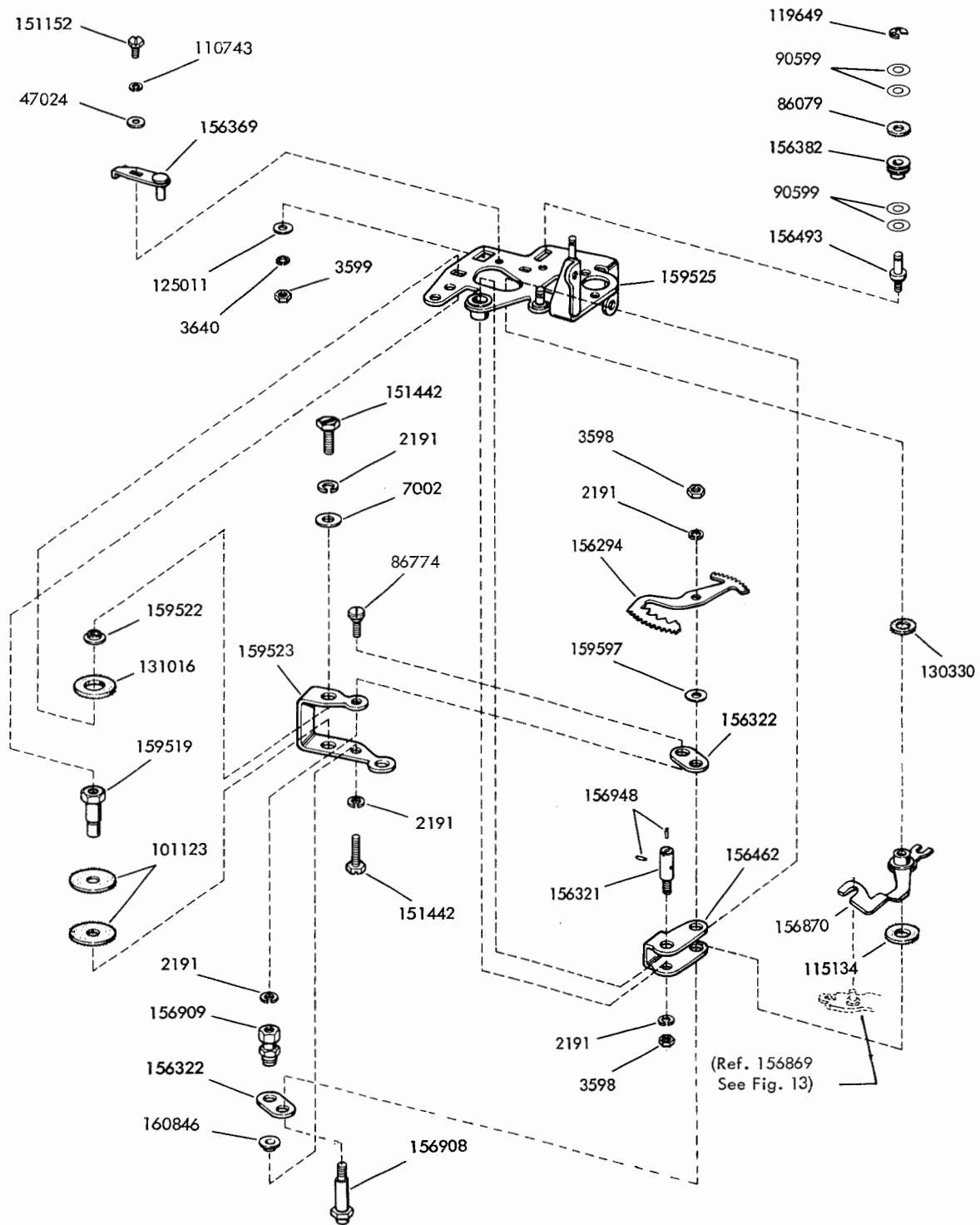


FIGURE 14. AXIAL POSITIONING MECHANISM

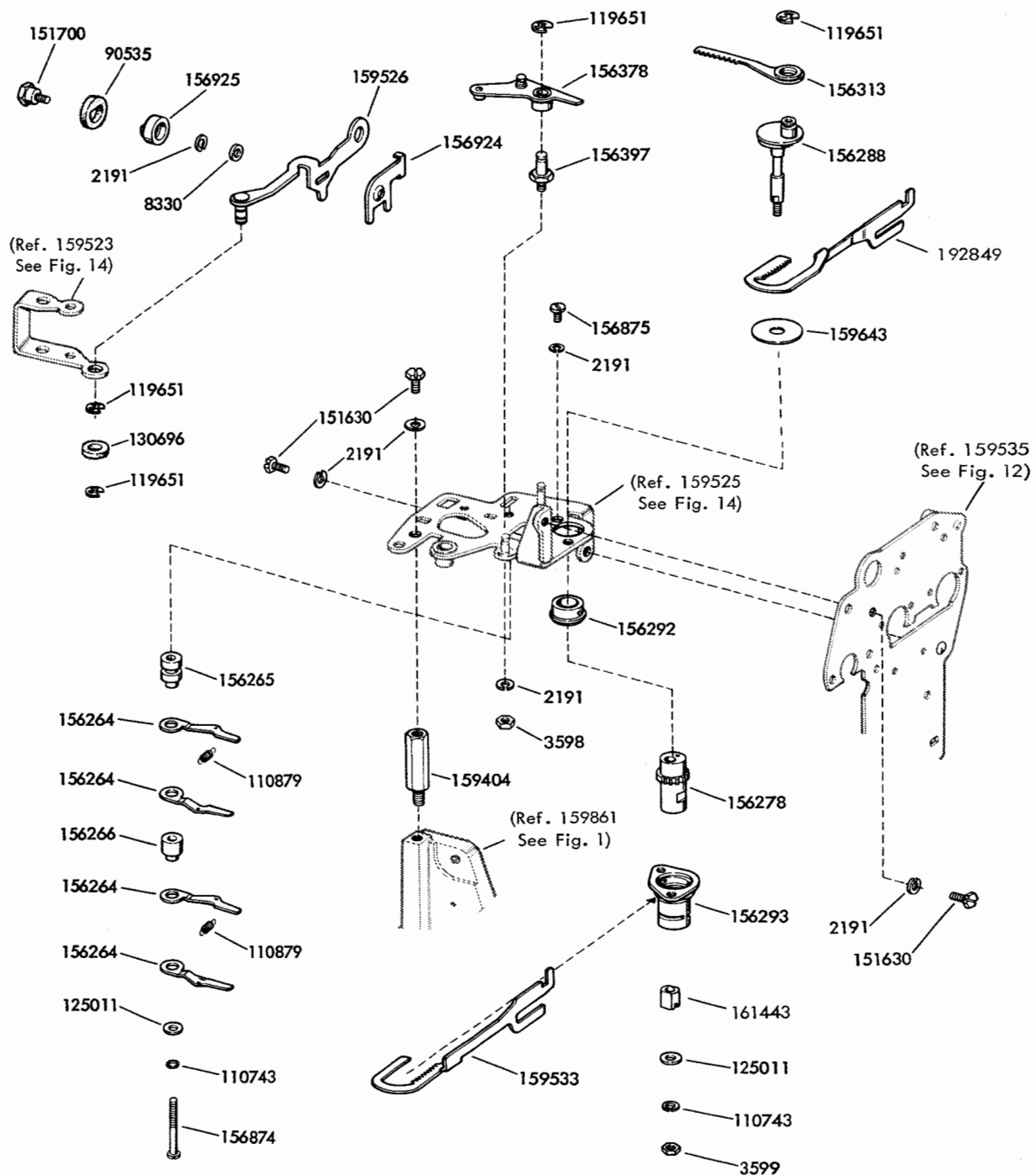


FIGURE 15. AXIAL POSITIONING MECHANISM

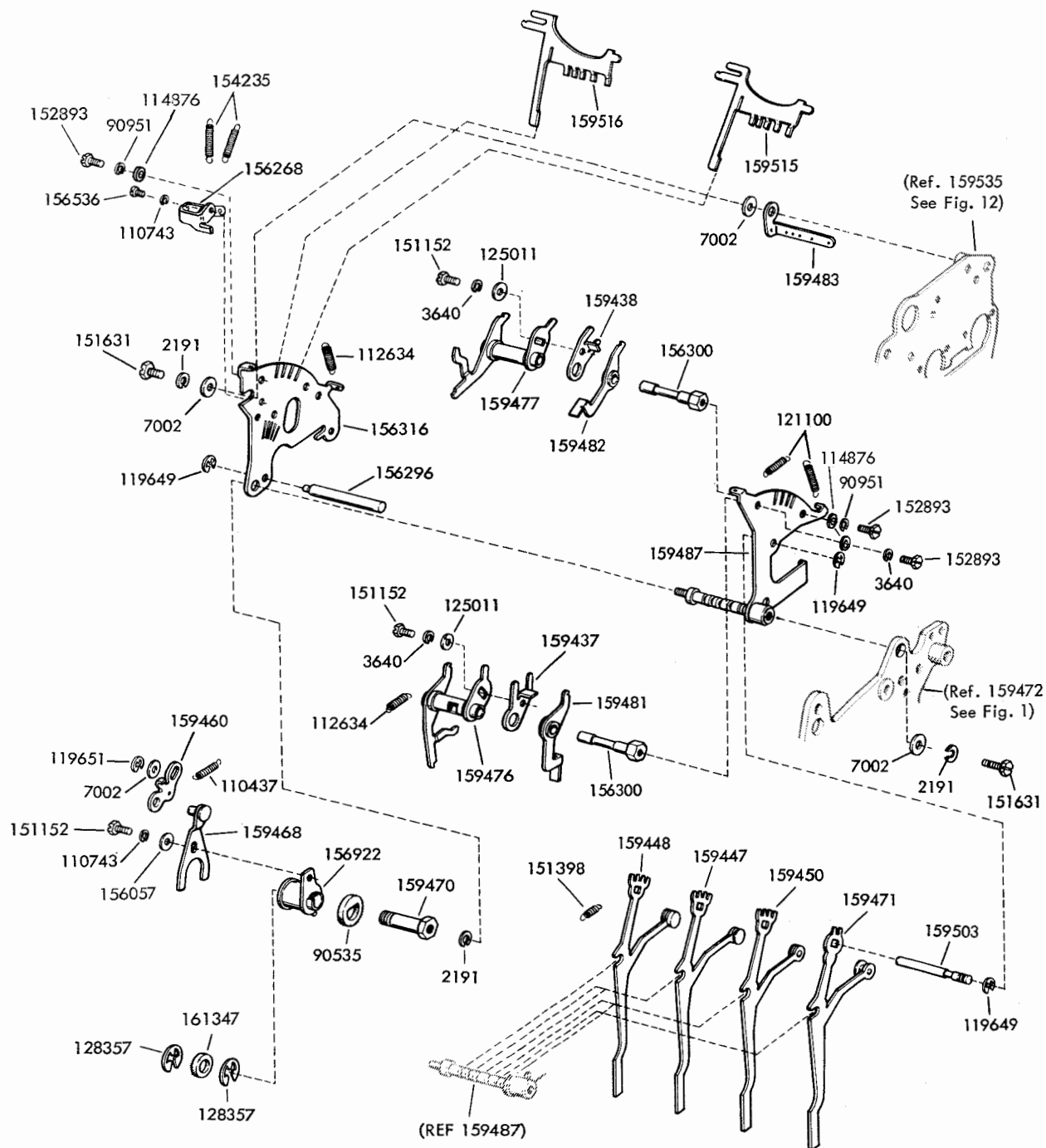


FIGURE 16. FUNCTION BOX MECHANISM

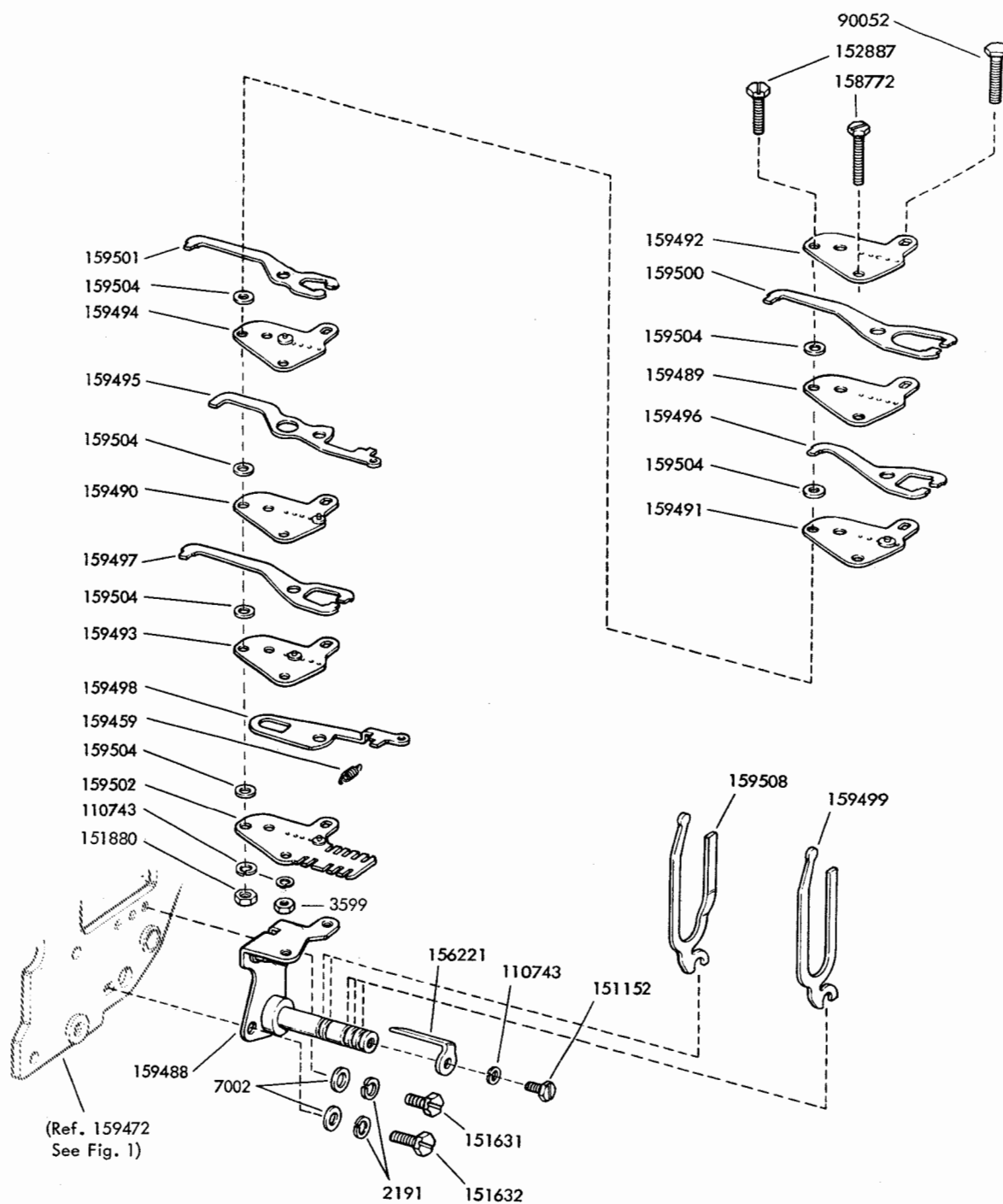
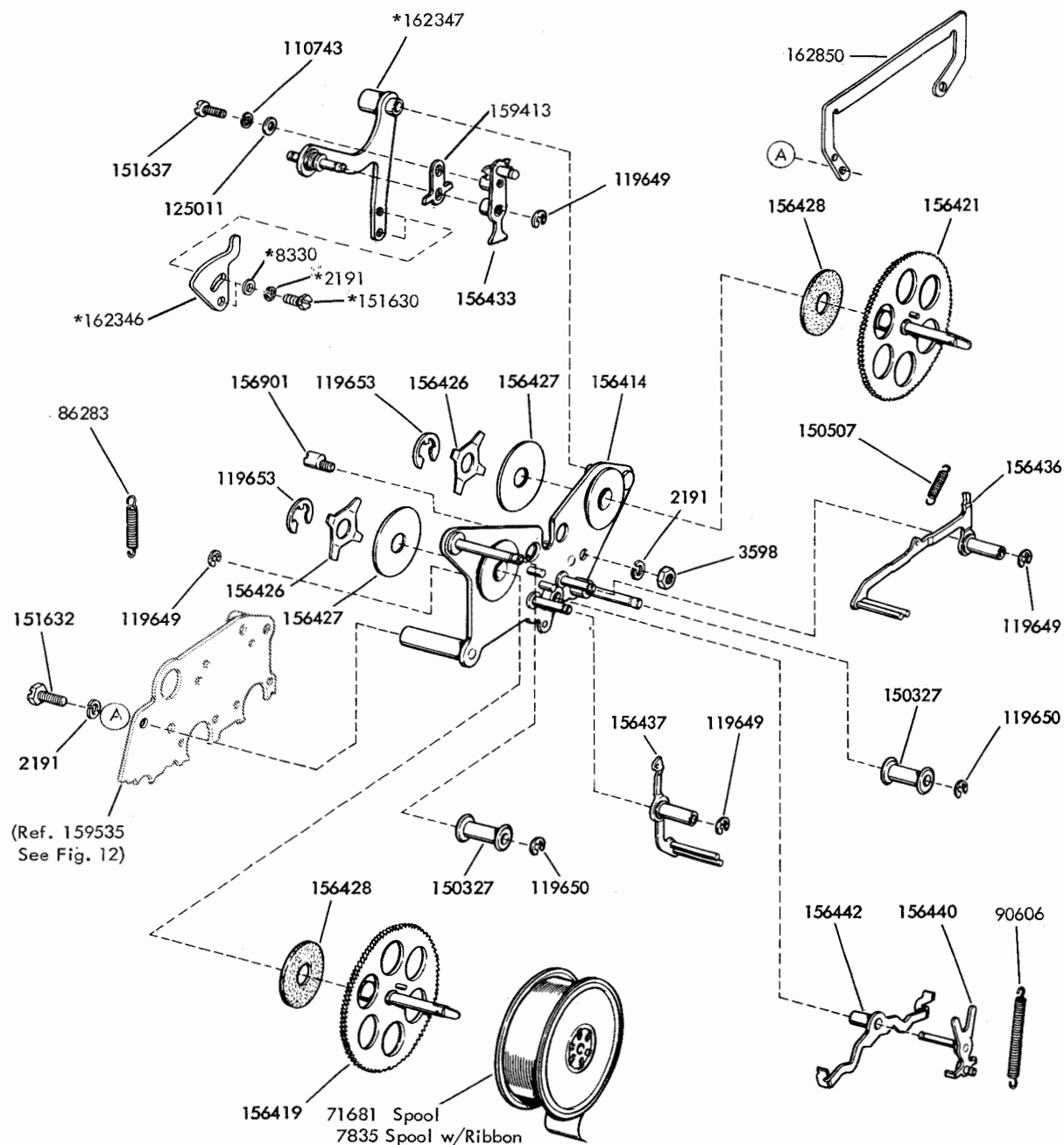


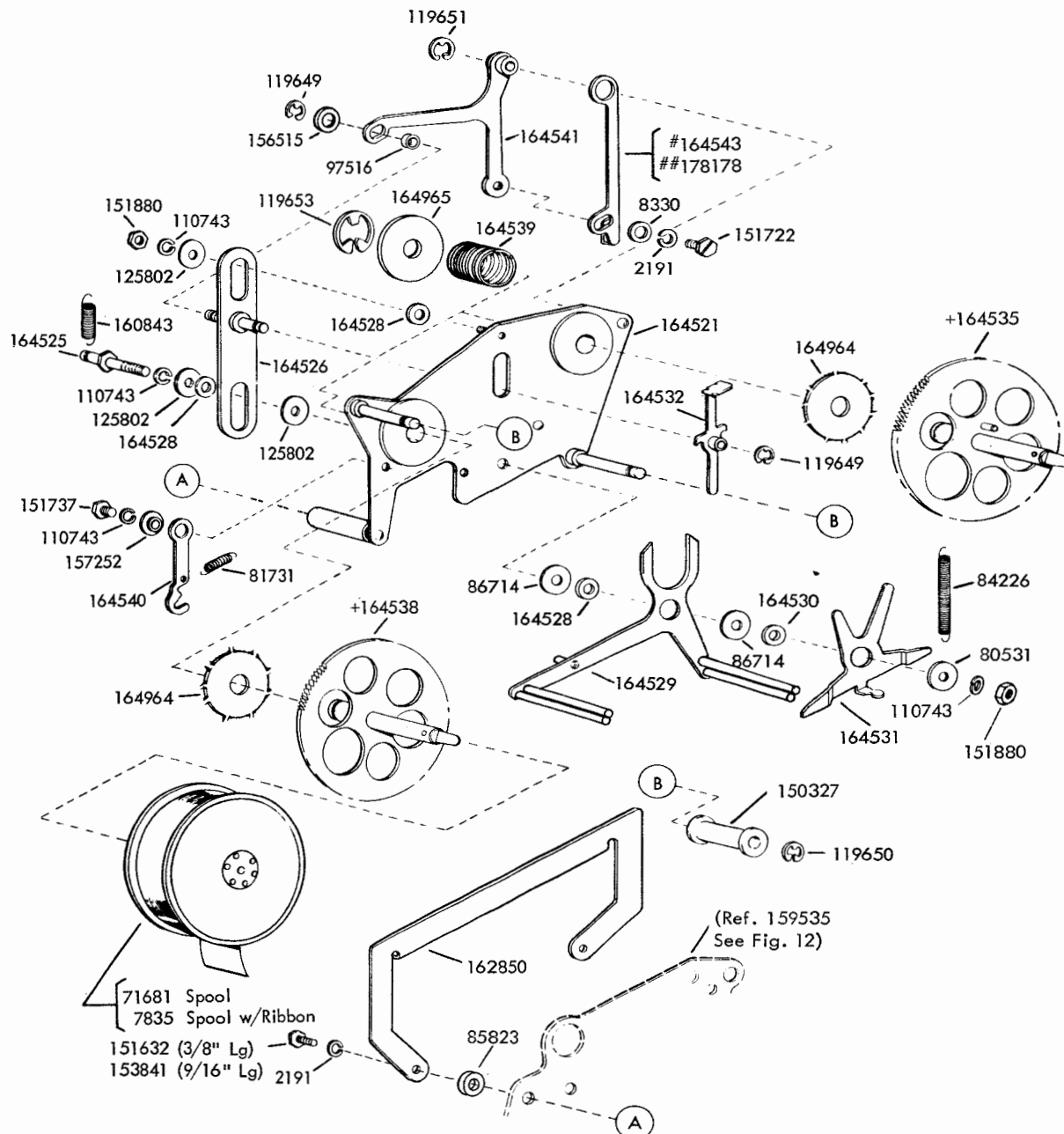
FIGURE 17. TRANSFER MECHANISM



For Latest Design Ribbon Feed Mechanism See Figure 19.

*Part of 154325 Modification Kit

FIGURE 18. RIBBON FEED MECHANISM (EARLY DESIGN)



For Early Design Ribbon Feed Mechanism See Figure 18.

+A 179579 Decalomania which shows direction of "Ribbon to Roller" is available.

Peculiar to units equipped with spring retracted Punch pins.
Peculiar to units equipped with power retracted Punch pins.

FIGURE 19. RIBBON FEED MECHANISM (LATE DESIGN)

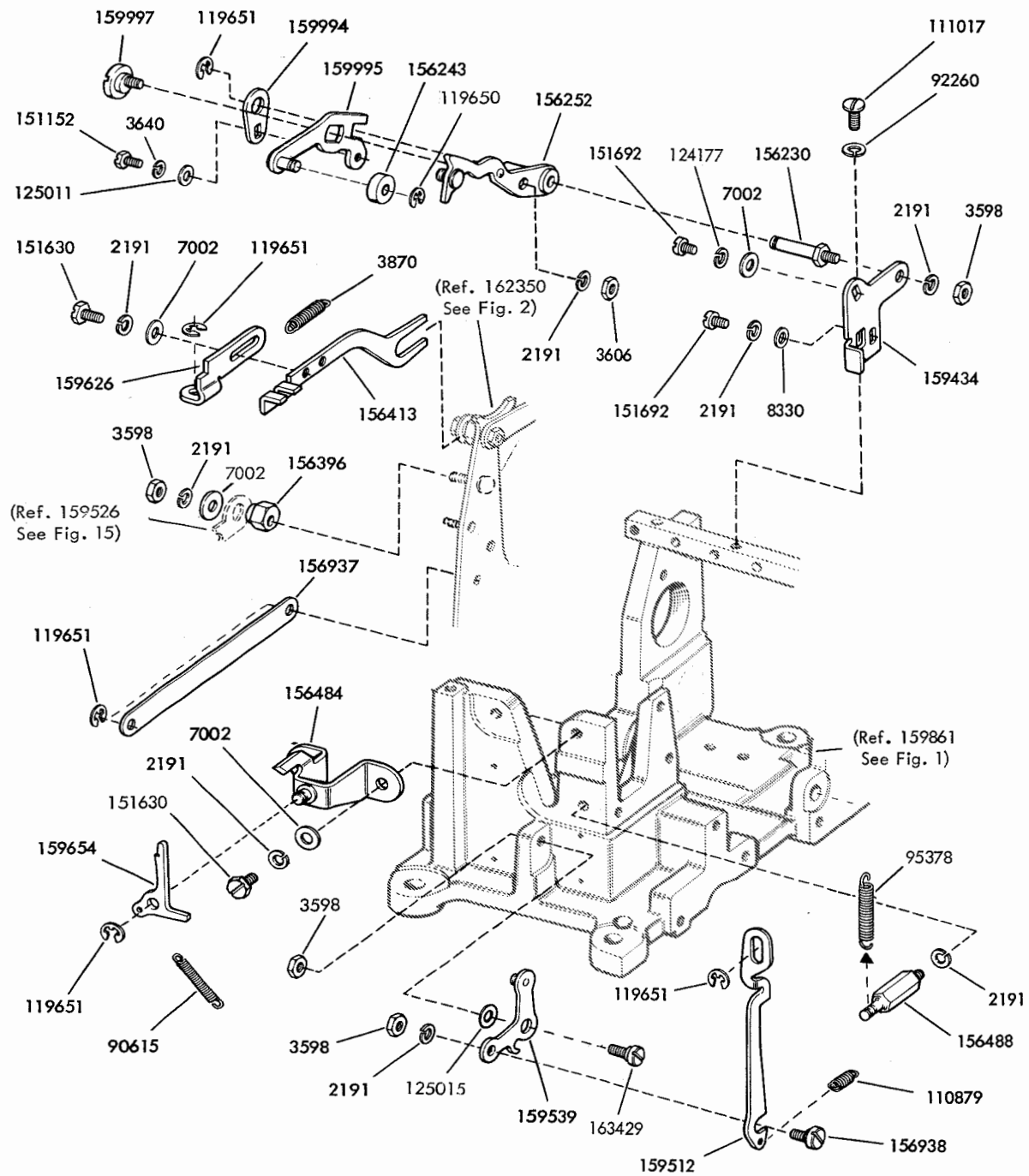
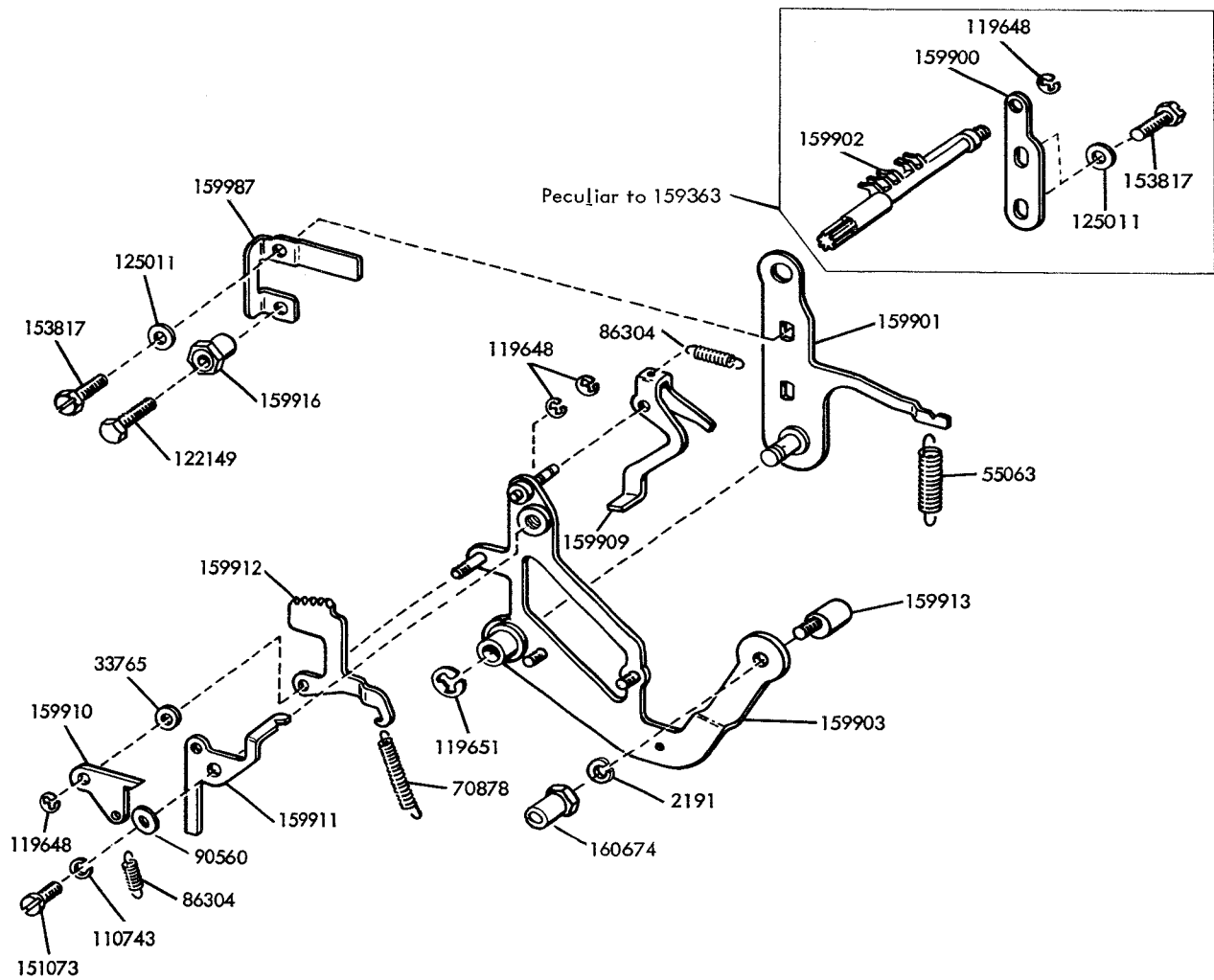


FIGURE 20. TYPING MECHANISM



159363 for Chadless Tape
 172640 for Fully Perforated Tape

FIGURE 21. 159363 AND 172640 MODIFICATION KITS TO ADD MANUAL BACKSPACE

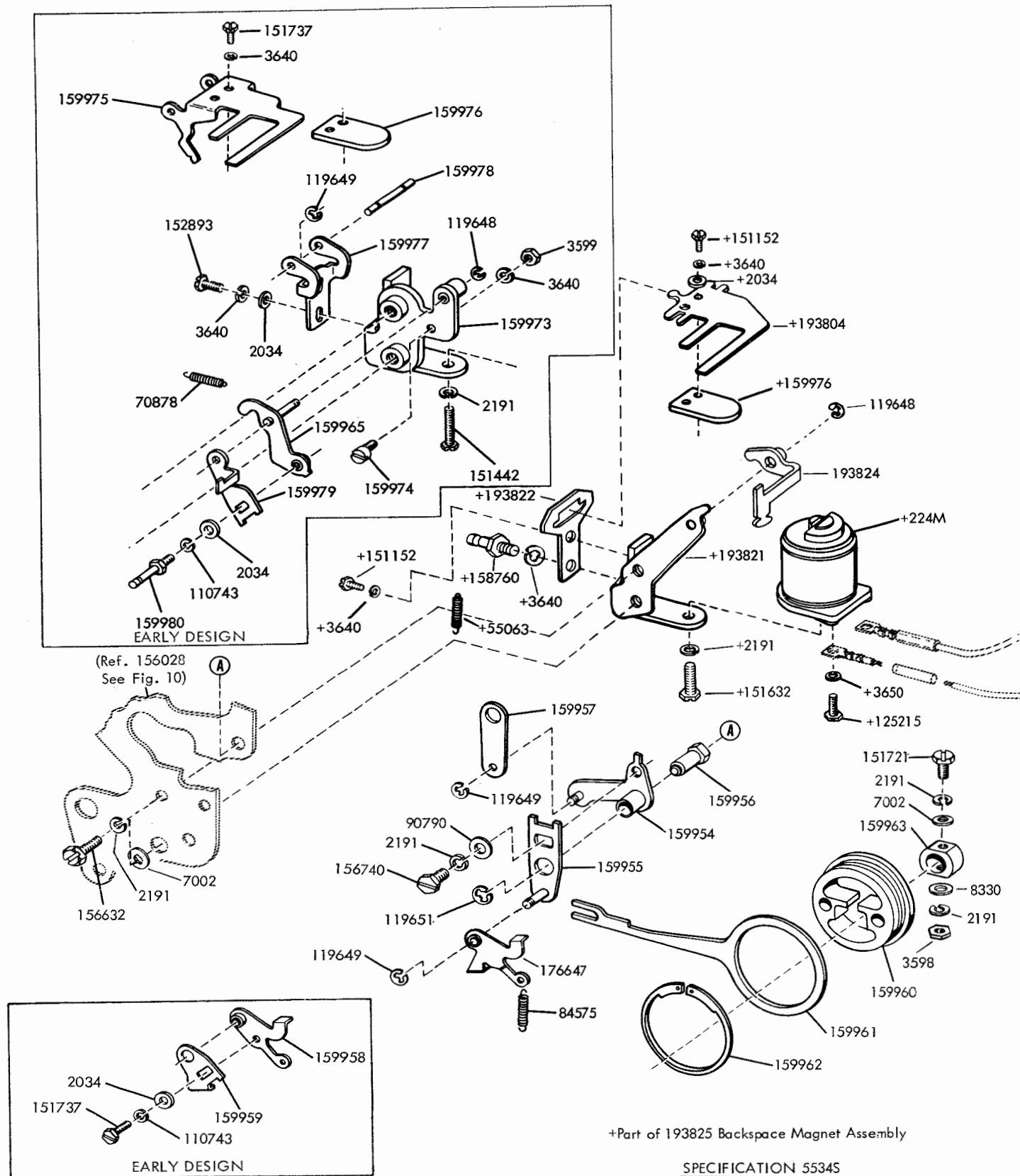


FIGURE 22. 159364 MODIFICATION KIT TO ADD POWER DRIVE TO BACKSPACE

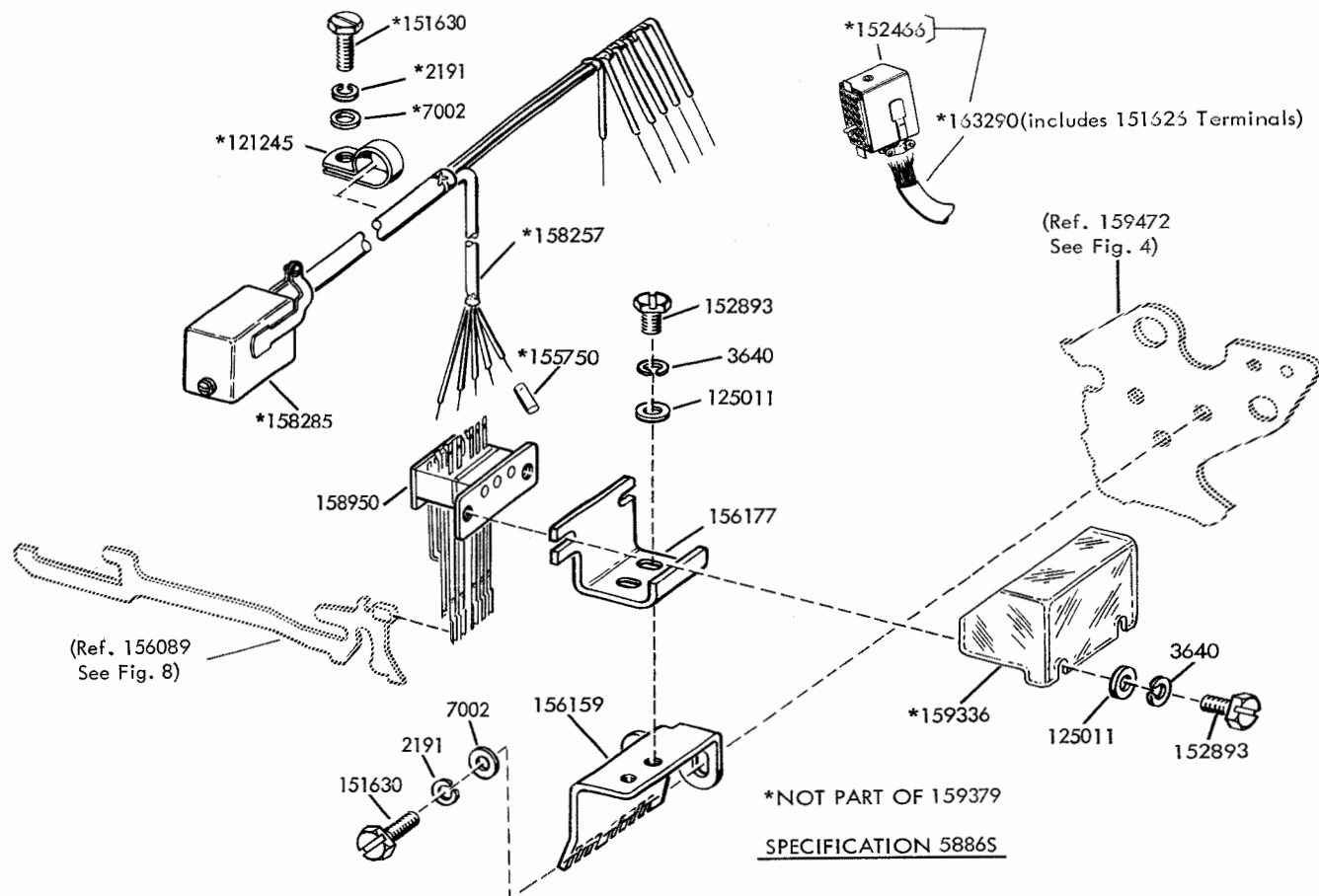


FIGURE 23. 159379 MODIFICATION KIT TO ADD "MAKE ONLY" CODE READING CONTACTS

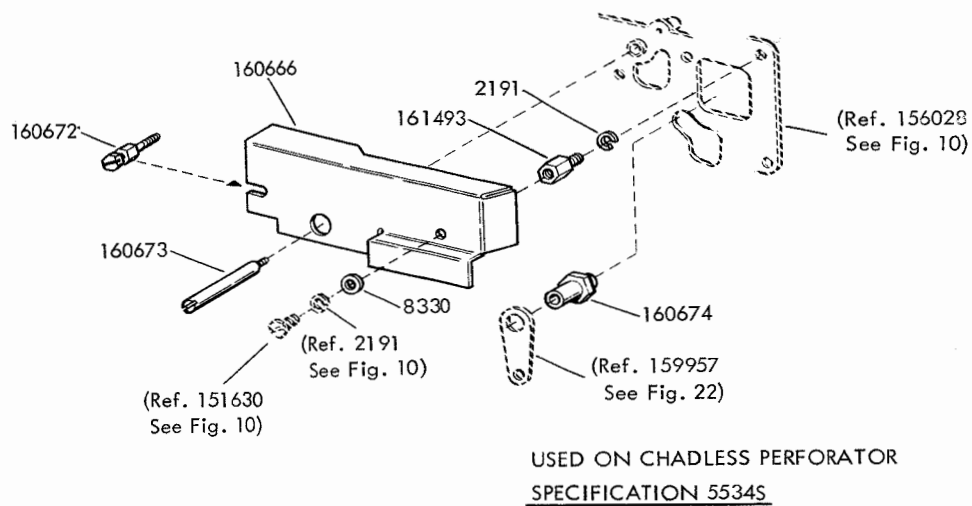


FIGURE 24. 160881 MODIFICATION KIT TO ADD GUARD TO COVER BACKSPACE MECHANISM

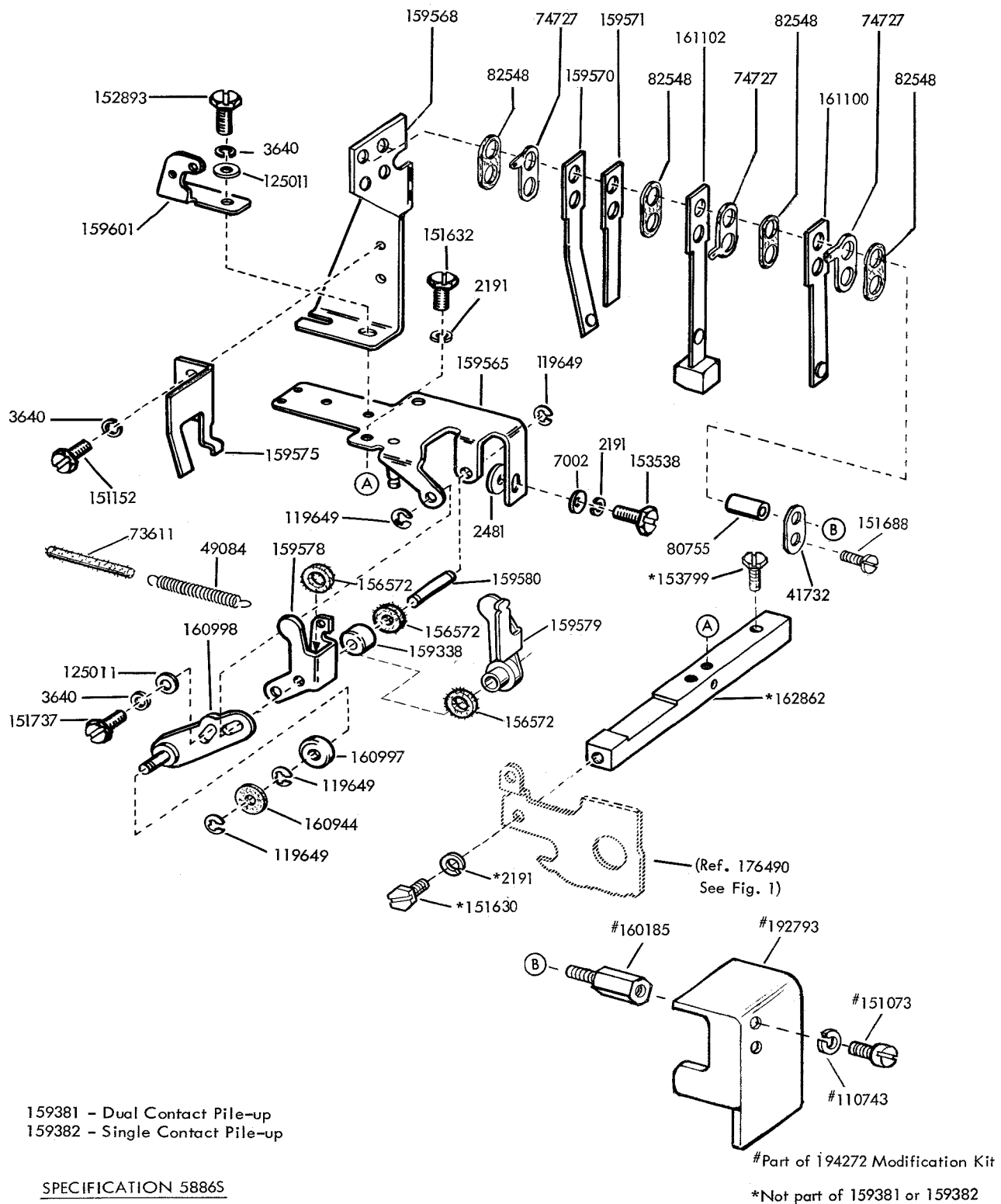


FIGURE 25. 159381 AND 159382 MODIFICATION KITS TO ADD AUXILIARY TIMING CONTACTS

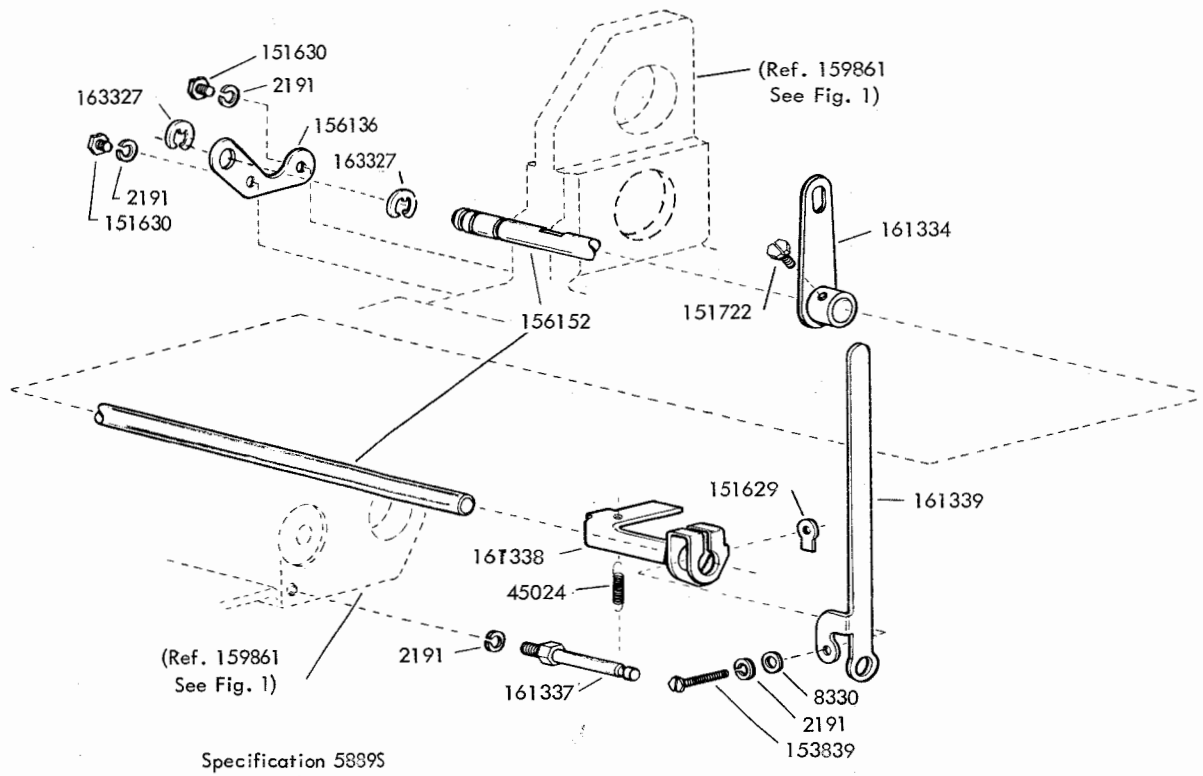


FIGURE 26. 161340 MODIFICATION KIT TO ADD MANUAL INTERFERING LETTERS TAPE FEED-OUT

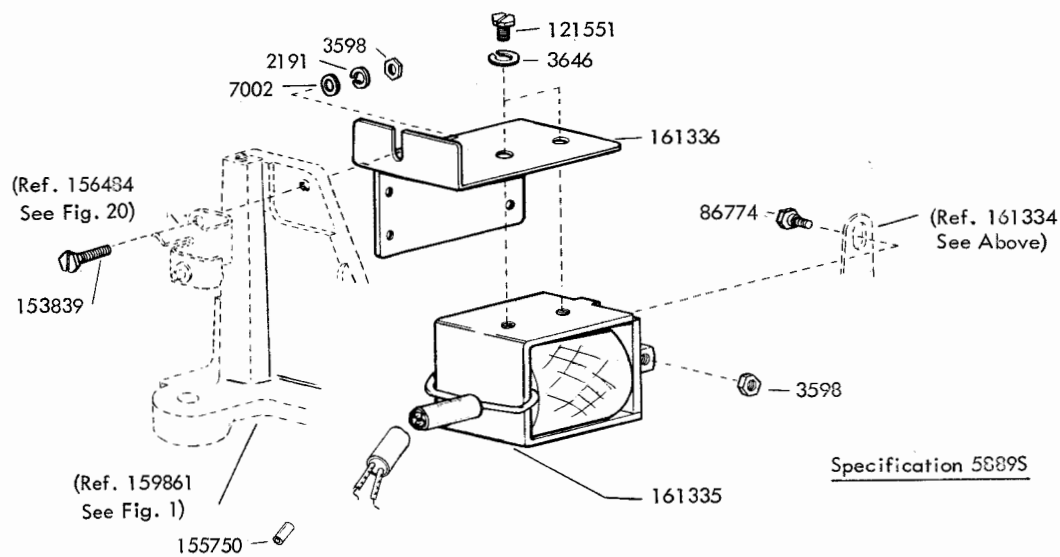
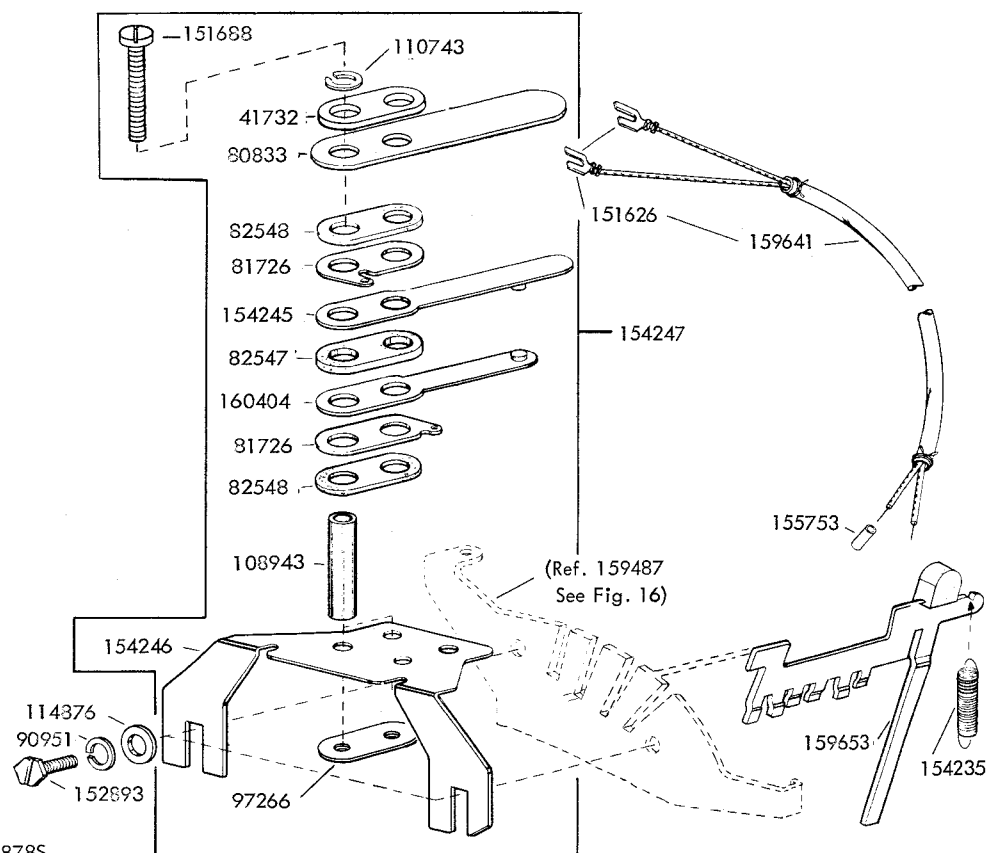
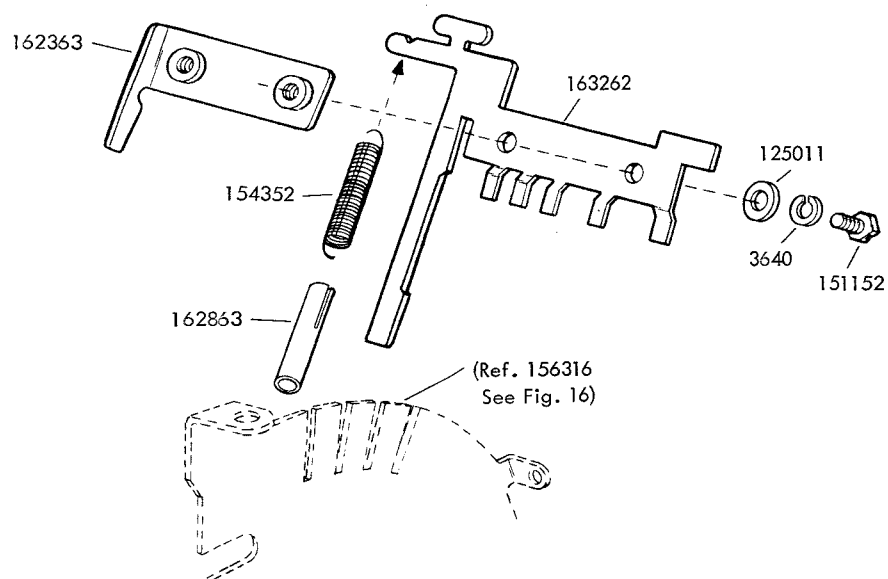


FIGURE 27. 161341 MODIFICATION KIT TO ADD SOLENOID OPERATION TO LETTERS FEED-OUT



SPECIFICATION 58785

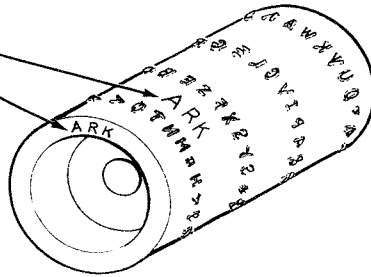
FIGURE 28. 159360 MODIFICATION KIT TO ADD SIGNAL BELL CONTACT (ON UPPER CASE "S")



SPECIFICATION 59095

FIGURE 29. 162375 MODIFICATION KIT TO ADD "UNSHIFT ON SPACE"

Typewheel Code may be found in either of two locations.



- ① Bell System Arrangement A
- ② Bell System Arrangement B
- ③ Bell System Arrangement C
- ④ Bell System Arrangement D

TYPEWHEEL CHART							
Code	Part Number	Matching Arrangements		Code	Part Number	Matching Arrangements	
		Typebox	Keytop			Typebox	Keytop
Printing on Edge of Tape				Printing Between Feed-Holes			
ABW	175604			BRH	175707		
ACA	175608			BRL	175710		
ACF	175612			BRM ③	175711		
ADC	175632			BRP	175713		
ARA ①	173965	RA	ARK	BWA ①	173757	WY	BRJ
ARC ③	173971	RC	ARL	BWB	173769		
ARE ④	173970	RE	ARE	BRB ②	175701		
ARG	173966	RG	ARG				
ARJ	173968	RJ	ARW				
ARL	163676						
ARK	163675						
ARM	163677		BRT				
ARS	173969	RS	ARM				
ARW	163683	YM	BRU				
ARX	163682						
ARY	163681	YE	BRQ				
ARZ	163679	RZ	ARU				
AWA	173967	WY	BRJ				
AWB	163685						
AWD	163687						
AWE	163688						
AWF	163690						
AWS	175580						
AWV	175582						
AWX	175583						
AWY	175584						
AXW	175519						
AXZ	175521						
AYB	175523						
AYX	175546						
AYZ	175547						
AZG	175554						
AZJ	175556						
AZM	175559						
AZT	175565						
AZW	175568						

FIGURE 30. TYPEWHEELS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
224M	Coil, Magnet 22	90599	Shim (.008") 14	150327	Roller, Ribbon 18, 19
1036	Nut (6-40 Hex) 9	90606	Spring 2, 18	150356	Lever, Trip 2, 5
2034	Washer, Flat 22	90615	Spring 20	150507	Spring 18
2191	Washer, Lock 2 to 25	90790	Washer, Flat 22	150830	Bushing, Shoulder 8
2199	Nut (7/16-32 Hex) 13	90951	Washer, Lock 16, 26	150841	Bearing 8
2407	Washer, Lock 13	91120	Spring 9	150923	Washer, Felt 11
2481	Washer, Flat 24	92260	Washer, Lock 20	150966	Insulator (1-4) 6
2669	Washer, Lock 3, 4, 6	93108	Washer, Lock 2, 4	150990	Washer, Felt 12
3438	Washer, Flat 6	93117	Washer, Lock 10	151073	Screw (4-40 x 5/32 Fil) 2, 5, 11, 21, 24
3598	Nut (6-40 Hex) 2, 3, 4, 5, 9, 10, 11, 13, 14, 15, 18, 20, 22, 25	93356	Washer, Felt 2, 5, 10	151152	Screw (4-40 x 3/16 Hex) 2, 9, 10, 14, 16, 17, 20, 24, 26
3599	Nut (4-40 Hex) 3, 9, 12, 14, 15, 17, 22	95378	Spring 20	151222	Washer, Felt 11
3603	Nut (1/4-32 Hex) 2, 4	96717	Screw, Shoulder (4-40) 3	151246	Washer, Flat 3, 4
3606	Nut (6-40 Hex) 3, 9, 20	97266	Plate, Clamp 26	151335	Stud 6
3640	Washer, Lock 3, 4, 8, 12, 13, 14, 16, 20, 22, 23, 24, 26	97516	Bushing 19	151346	Screw (6-40 x 3/8 Fil) 3
3646	Washer, Lock 25	101123	Washer, Felt 14	151362	Wick, Felt 3, 4
3650	Washer, Flat 22	108943	Bushing 26	151398	Spring 16
3870	Spring 20	110434	Screw (4-40 x 3/16 Fil) 2, 5	151415	Block, Terminal 6
5363	Spring 9	110437	Spring 16	151416	Nut (6-40 Hex) 6, 10, 11
6970	Nut (3/8-32 Hex) 6	110743	Washer, Lock 2, 5, 7 to 19, 21, 22, 24, 26	151442	Screw (6-40 x 1/2 Hex) 3, 13, 14, 22
7002	Washer, Flat 2 to 17, 20 to 25	110879	Spring 12, 15, 20	151620	Strap, Motor Mounting 6
7835	Ribbon w/Spool (Black) 18, 19	111017	Screw (6-40 x 5/16 Fil) 6, 20	151621	Screw (6-32 x 3/4 Rd) 6
8330	Washer, Flat 2, 3, 5, 9, 10, 15, 18, 19, 20, 22, 23, 25	112626	Nut (10-32 Hex) 4, 13	151622	Nut (6-32 Sq) 6
22746	Spring 13	112634	Spring 16	151626	Terminal 23, 26
33765	Washer, Flat 21	112967	Washer, Flat 2, 4	151629	Nut (6-40 Lug) 2, 5, 11, 13, 25
41382	Spring 9	114876	Washer, Flat 16, 26	151630	Screw (6-40 x 1/4 Hex) 2, 3, 7, 8, 10, 12, 13, 15, 18, 20, 23, 24, 25
41543	Bearing, Ball 2, 4	115122	Washer, Felt 13	151631	Screw (6-40 x 5/16 Hex) 2, 3, 4, 5, 6, 9, 10, 12, 16, 17
41732	Plate, Clamp 24, 26	115134	Washer, Felt 14	151632	Screw (6-40 x 3/8 Hex) 2, 3, 4, 6, 7, 8, 9, 17, 18, 19, 22, 24
42823	Washer, Flat 7, 8	119647	Ring, Retaining 10	151637	Screw (4-40 x 1/4 Fil) 9, 18
45024	Spring 25	119648	Ring, Retaining 9, 10, 21, 22	151640	Lever, Shoe Release 7
47024	Washer, Flat 14	119649	Ring, Retaining 10, 13, 14, 16, 18, 19, 22, 24	151657	Screw (6-40 x 1/4 Fil) 3, 5, 6
49084	Spring 24	119650	Ring, Retaining 11, 18, 19, 20	151658	Screw (6-40 x 5/16 Fil) 2, 4
55063	Spring 9, 21, 22	119651	Ring, Retaining 3, 13, 15, 16, 19, 20, 21, 22	151688	Screw (4-40 x 5/8 Fil) 24, 26
70878	Spring 21, 22	119652	Ring, Retaining 2, 3, 5, 10, 11	151692	Screw (6-40 x 3/16 Fil) 20
71437	Washer, Flat 11	119653	Ring, Retaining 13, 18, 19	151700	Screw, Shoulder (6-40) 15
71681	Spool, Ribbon 18, 19	121100	Spring 16	151712	Button, Pivot 6
73611	Wick, Felt 24	121245	Clamp, Cable (5/16" ID) 23	151721	Screw (6-40 x 3/4 Hex) 22
74553	Wick, Felt 13	121551	Screw (8-32 x 1/4 Hex) 25	151722	Screw (6-40 x 3/16 Hex) 9, 19, 25
74727	Terminal, Contact 24	122149	Screw (4-40 Spl) 21	151724	Screw (10-32 x 5/8 Hex) 6
76081	Washer, Flat 5	122207	Strap Assembly, Mounting 6	151728	Spring 7
80531	Washer, Flat 19	124177	Washer, Lock 3, 4, 9, 20	151736	Spring 8
80755	Bushing, Insulating 24	125011	Washer, Flat 2, 3, 5, 9, 10, 12, 14, 15, 16, 18, 20, 21, 23, 24, 26	151737	Screw (4-40 x 11/64 Hex) 7, 8, 19, 22, 24
80833	Guard, Contact Spring 26	125015	Washer, Flat 3, 10, 11, 12, 20	151880	Nut (4-40 Hex) 17, 19
81726	Terminal 26	125215	Screw (4-40 x 3/16 Hex) 22	152415	Stud, Adjusting 2, 4
81731	Spring 19	125231	Nut (10-32 Hex) 3	152466	Connector, Receptacle (20 Pt) 23
82392	Shim (.004") 3	125802	Washer, Flat 19	152634	Washer, Flat 11
82547	Insulator (.094") 26	128357	Ring, Retaining 11, 16	152887	Screw (4-40 x 1/2 Hex) 17
82548	Insulator (.062") 24, 26	130330	Washer, Felt 14	152893	Screw (4-40 x 1/4 Hex) 2, 3, 4, 5, 9, 10, 11, 13, 16, 22, 23, 24, 26
84226	Spring 19	130696	Washer, Felt 15	153030	Mount, Vibration 6
84575	Spring 22	131016	Washer, Felt 14	153267	Washer, Felt 9
85422	Screw (10-32 x 15/16 Hex) 6	135716	Spring 2, 5	153538	Screw (6-40 x 7/16 Hex) 24
85823	Spacer 19	135901	Washer, Cup 13	153799	Screw (4-40 x 21/64 Hex) 24
86079	Washer, Felt 14	139697	Screw (4-40 x 9/32 Fil) 7	153817	Screw (4-40 x 3/8 Hex) 21
86283	Spring 18	139752	Screw (4-40 x 11/64 Fil) 2, 5	153839	Screw (6-40 x 5/8 Hex) 2, 5, 11, 13, 25
86304	Spring 21	150013	Disk, Adjusting 7	153841	Screw (6-40 x 9/16 Hex) 19
86506	Post, Spring 2	150014	Disk, Adjusting 8		
86714	Washer, Flat 19	150027	Lever, Shoe Release 8		
86774	Screw, Shoulder (6-40) 14, 25	150029	Wick, Felt 7, 8		
87401	Spring 2, 5	150034	Disk, Clutch (2 Stop) 8		
90052	Screw (4-40 x 5/8 Hex) 17	150040	Screw (6-40 x 5/8 Fil) 7, 8		
90361	Washer, Felt 11	150043	Shoe, Secondary Clutch 7, 8		
90535	Washer, Felt 15, 16	150044	Shoe, Primary Clutch 7, 8		
90560	Washer, Flat 21	150048	Spring 2, 5		
90573	Spring 3, 4	150241	Spring 2, 5, 7, 8		

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
154235	Spring 16, 26	156169	Washer, Felt 11	156466	Rack, Typewheel 13
154242	Screw (6-40 x 5/16 Hex) 3, 4	156172	Rod 9	156467	Ring, Retaining 3, 4
154245	Spring, Contact 26	156173	Stud 9	156472	Post, Spring 5
154246	Bracket, Contact 26	156177	Bracket, Contact 23	156473	Shaft, Main 7, 8
154247	Contact Assembly 26	156184	Bracket, Anchor 10	156476	Hammer, Print 13
154325	Modification Kit to Provide an Adjustable Ribbon Drive Arm 18	156221	Lock 17	156478	Accelerator, Hammer 13
154335	Screw (6-40 x 9/32 Fil) 7, 8	156230	Stud, Lifter Pivot 20	156484	Bracket 20
154352	Spring 26	156235	Post, Guide 2, 5	156488	Post, Spring 20
154397	Shaft w/Bearing 3, 7, 8	156236	Collar 7, 8	156489	Bushing, Ribbon Guide 13
154398	Bearing, Needle 7, 8	156241	Link, Front 13	156490	Post, Guide 2, 5
154457	Guide, Tape 10	156242	Link, Rear 13	156492	Bracket, Guide 12
154694	Disk, Clutch Cam 7	156243	Roller, Lifter Arm 20	156493	Stud 14
154698	Wick, Felt 10	156248	Latch 2, 5	156501	Screw (6-40 x 7/32 Fil) 12, 13
155750	Sleeve, Insulating (3/32 x 1/2" ID Lg) 23, 25	156252	Lifter, Function Blade 20	156515	Washer, Felt 19
155753	Sleeve, Insulating (1/8 x 1/2" ID Lg) 26	156264	Lever, Detent 12, 15	156536	Screw (4-40 x 1/8 Fil) 16
155995	Screw, Shoulder (6-40) 2, 4	156265	Bushing, Shoulder 15	156572	Washer, Felt 24
156008	Wheel, Feed 10	156266	Bushing, Shoulder 12, 15	156576	Washer, Felt 3, 4
156009	Post, Slide 11	156267	Lever, Trip 2, 5	156577	Roller, Detent Lever 10
156012	Spring, Punch Block 9	156268	Bracket, Spring 16	156588	Ring, Retaining 13
156013	Screw (4-40 Spl) 11	156276	Eccentric, Right Rotary 12	156632	Screw (6-40 x 13/32 Hex) 22
156015	Plate, Spring 9	156277	Eccentric, Left Rotary 12	156740	Screw (6-40 x 7/32 Hex) 22
156016	Link, Front Drag 11	156278	Eccentric 15	156835	Ring, Retaining 13
156017	Shaft, Eccentric 11	156286	Shaft, Right Eccentric 12	156869	Guide, Ribbon 13
156019	Washer, Felt 10	156287	Shaft, Left Eccentric 12	156870	Lever, Ribbon Oscillating 14
156020	Slide 9	156288	Shaft, Axial Eccentric 15	156871	Bail, Operating Blade 3
156024	Plate, Rear 9	156289	Bearing, Left Front 12	156872	Blade, Operating 3
156028	Plate, Front 10	156290	Bearing, Right Front 12	156874	Screw (4-40 x 15/16 Fil) 12, 15
156036	Guide, Tape 10	156291	Bearing, Rear 12	156875	Screw (6-40 x 5/32 Fil) 15
156040	Post 10	156292	Housing, Upper Axial 15	156876	Bushing 3
156042	Post, Spacing 10	156293	Housing, Lower Axial 15	156877	Washer, Felt 3
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