

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

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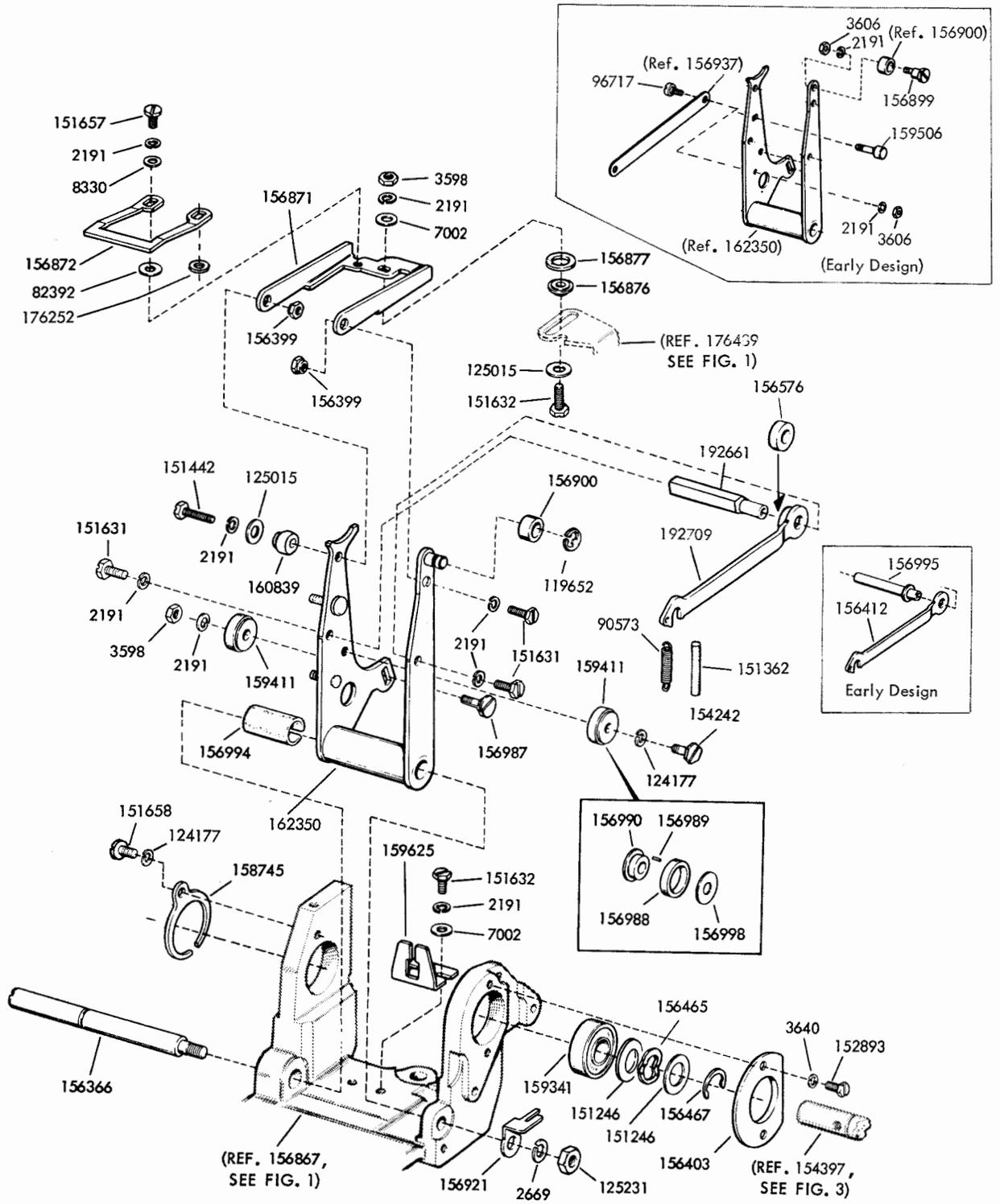
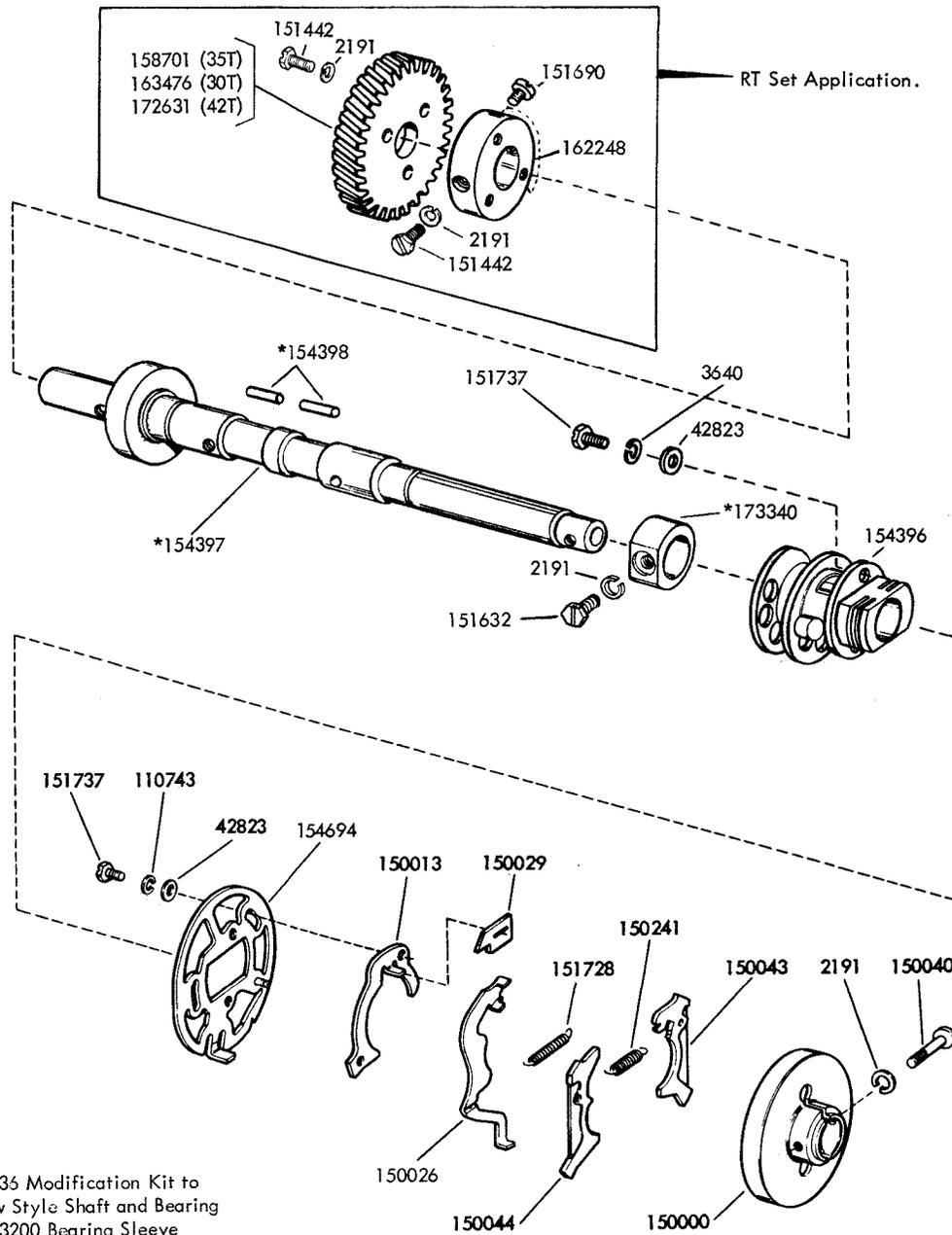


FIGURE 2. FRAME MECHANISM



*Part of 173336 Modification Kit to Provide New Style Shaft and Bearing (Includes 173200 Bearing Sleeve Shown on Figure 42).

173336 - Specification 59795

FIGURE 3. MAIN SHAFT MECHANISM

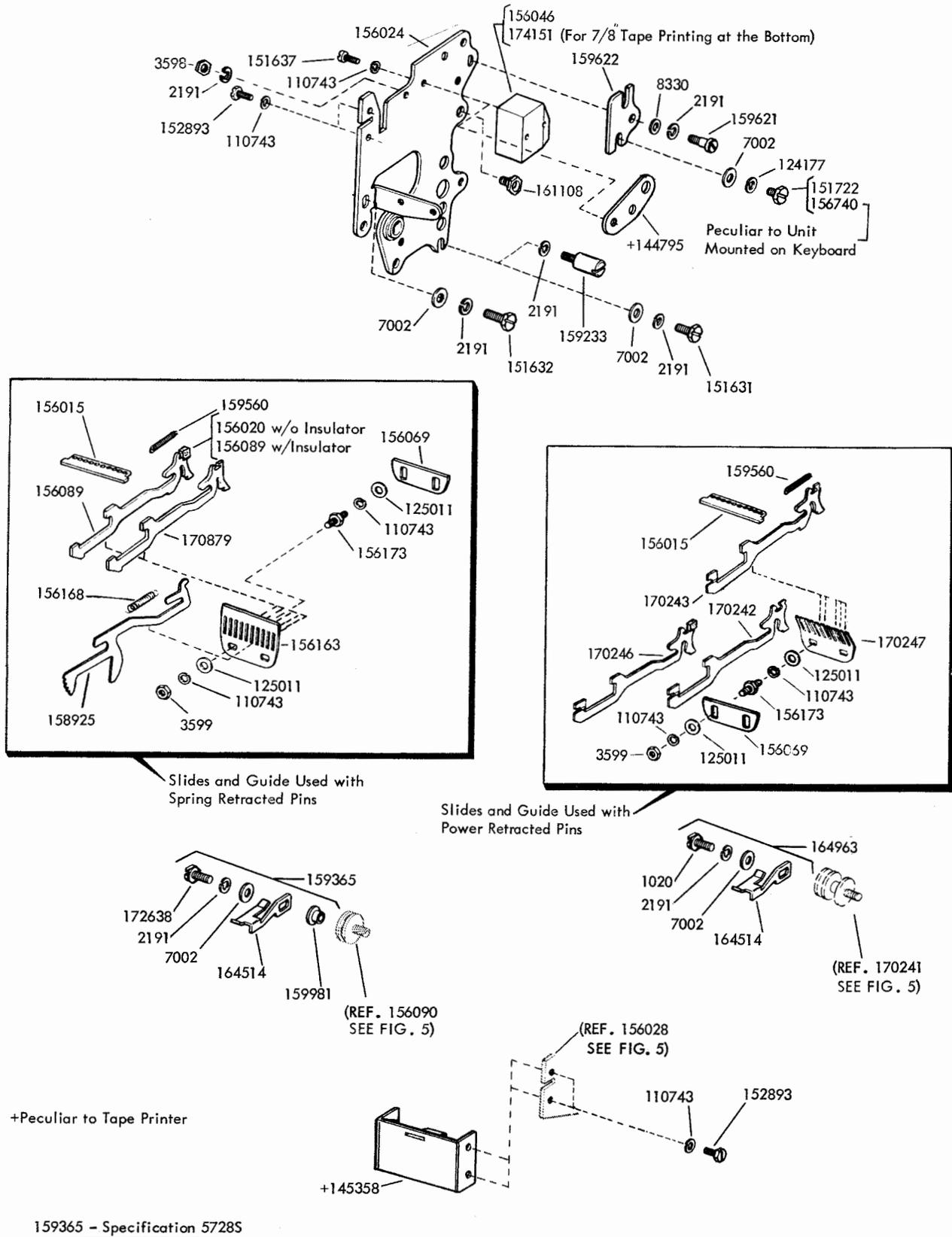


FIGURE 4. PUNCH REAR PLATE MECHANISM

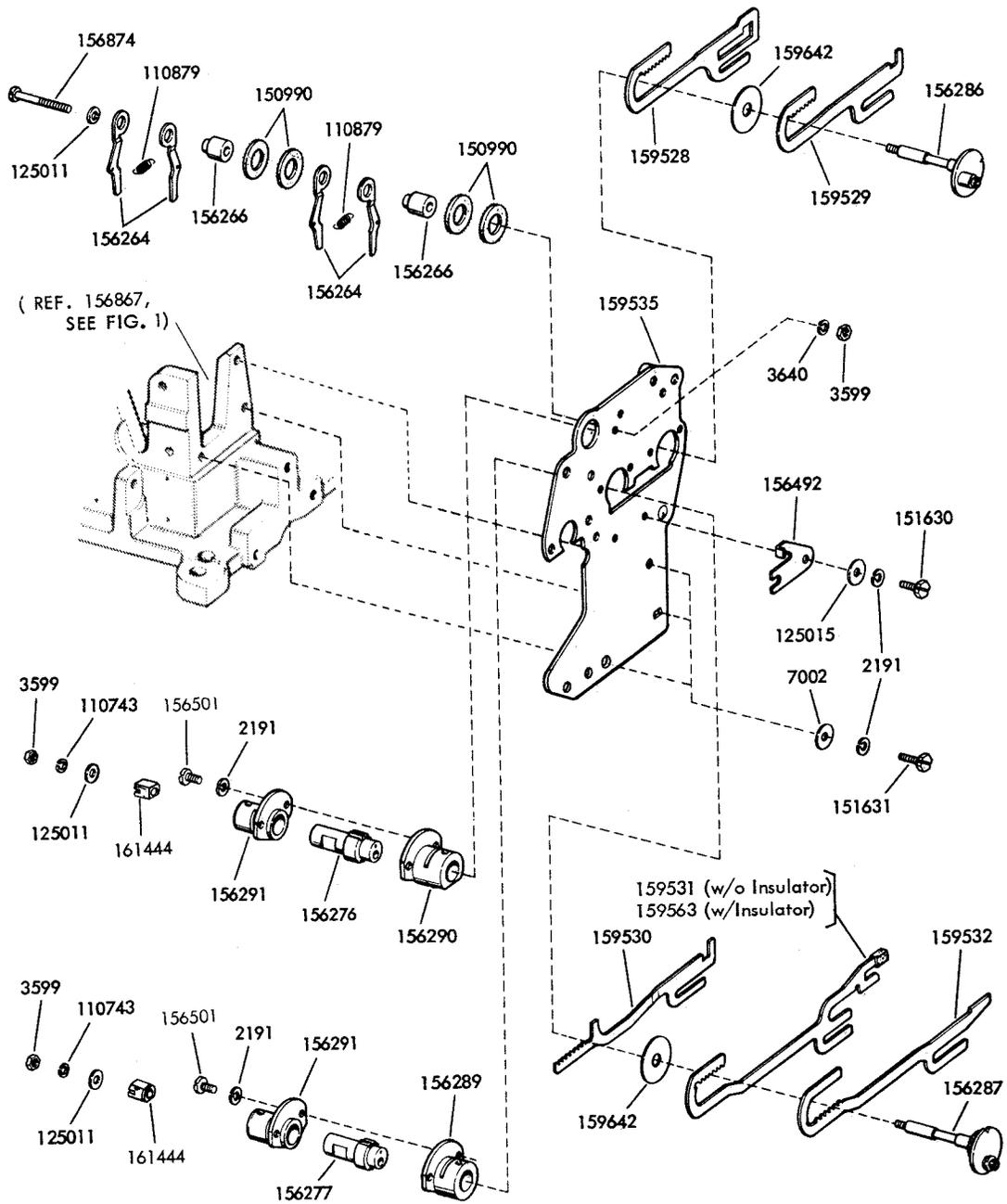
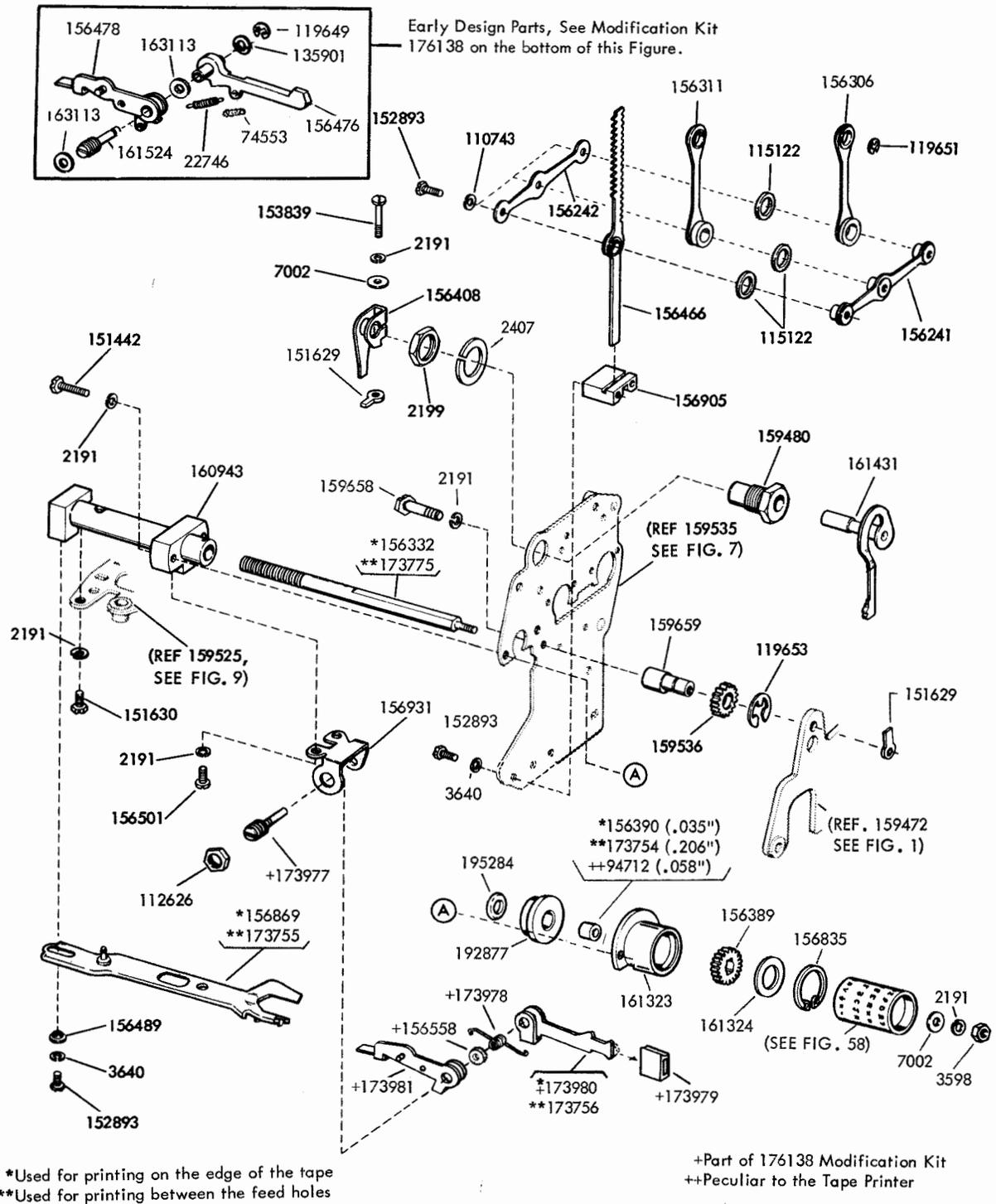
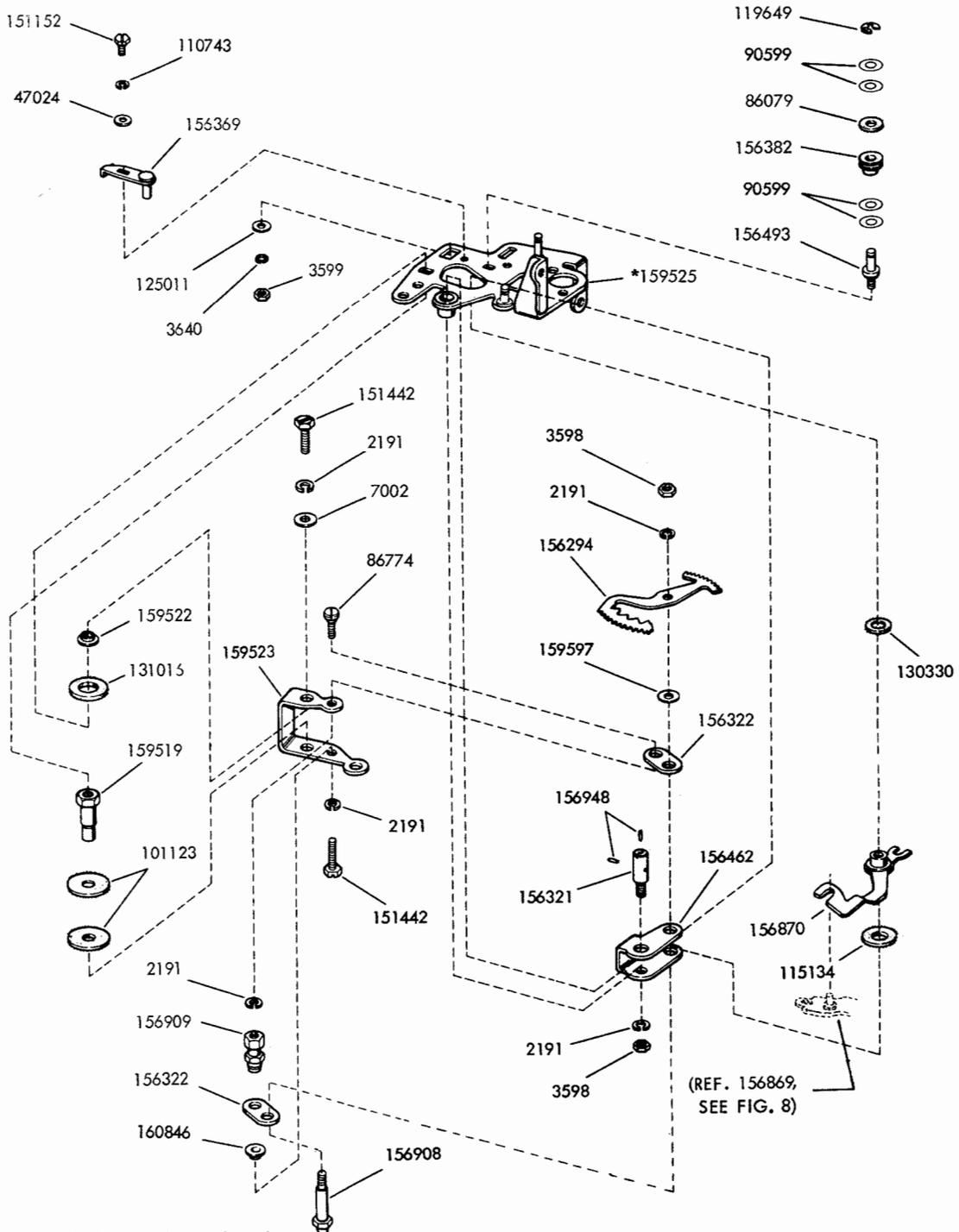


FIGURE 7. ROTARY POSITIONING MECHANISM



176138 - Specification 500295

FIGURE 8. ROTARY POSITIONING MECHANISM



*The 159525 bracket has been redesigned, and now includes the axial correction plate mounting post. The 156397 post, 2191 lock washer and 154244 shoulder nut will be supplied for maintenance.

FIGURE 9. AXIAL POSITIONING MECHANISM

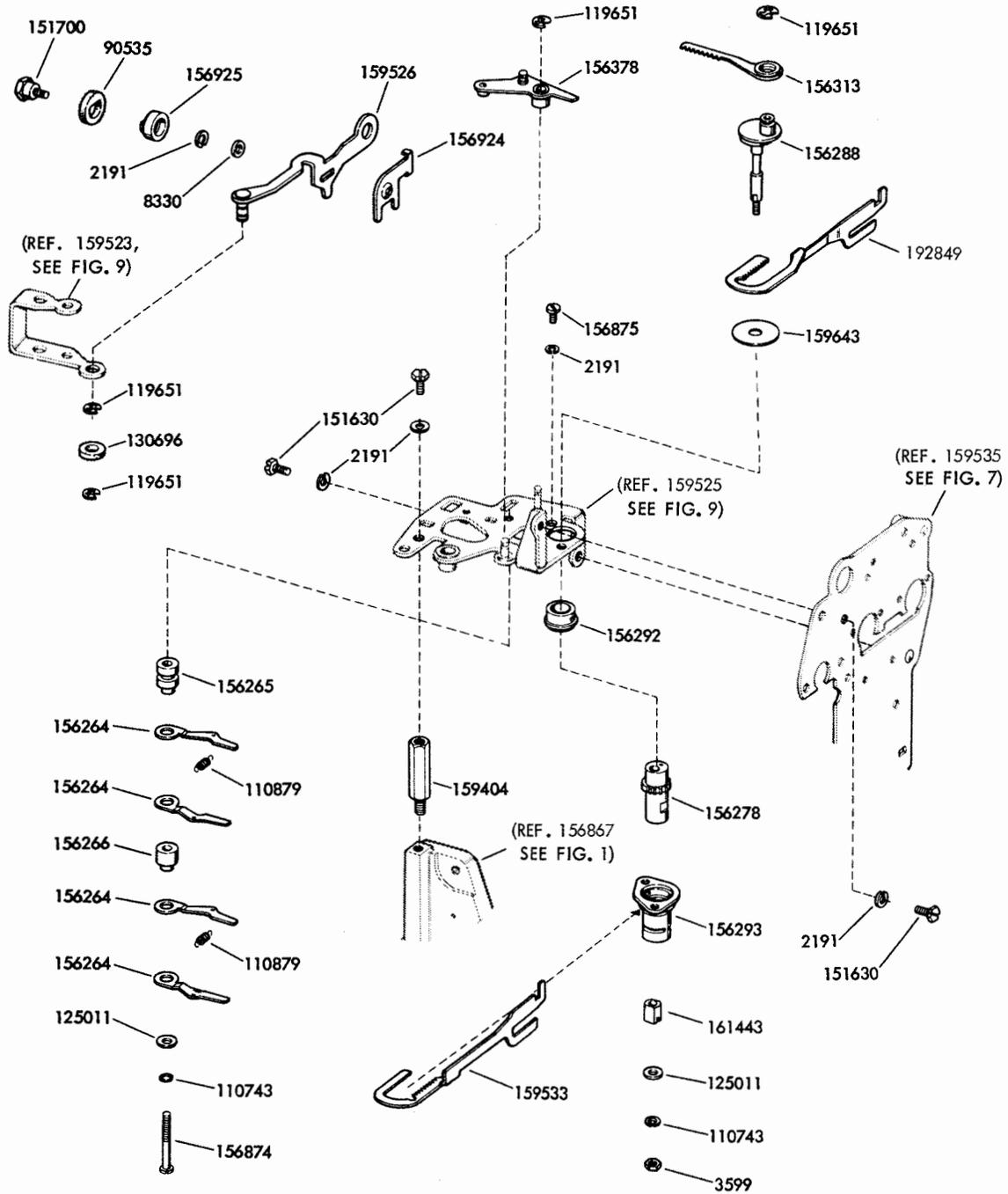


FIGURE 10. AXIAL POSITIONING MECHANISM

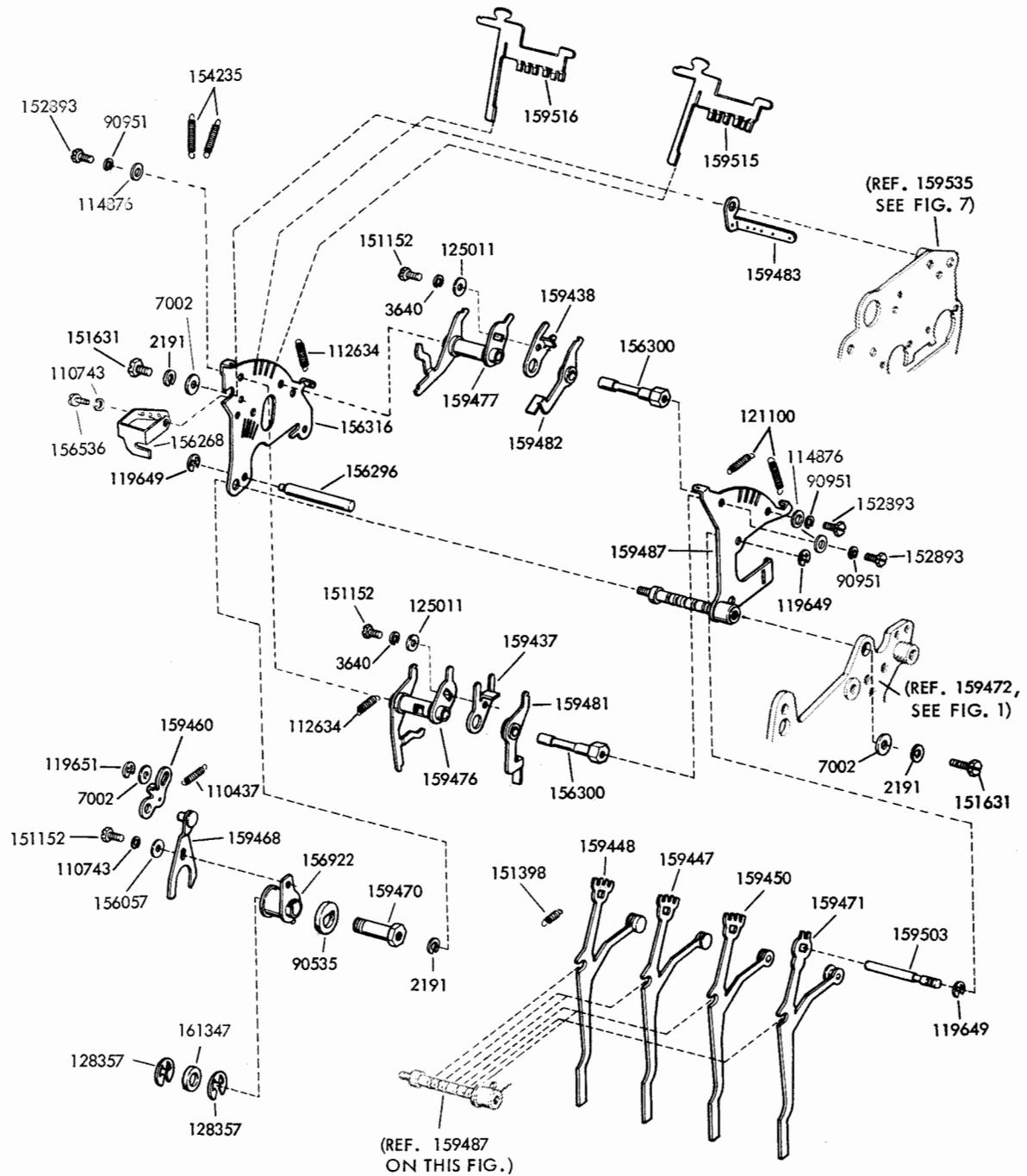


FIGURE 11. FUNCTION BOX MECHANISM

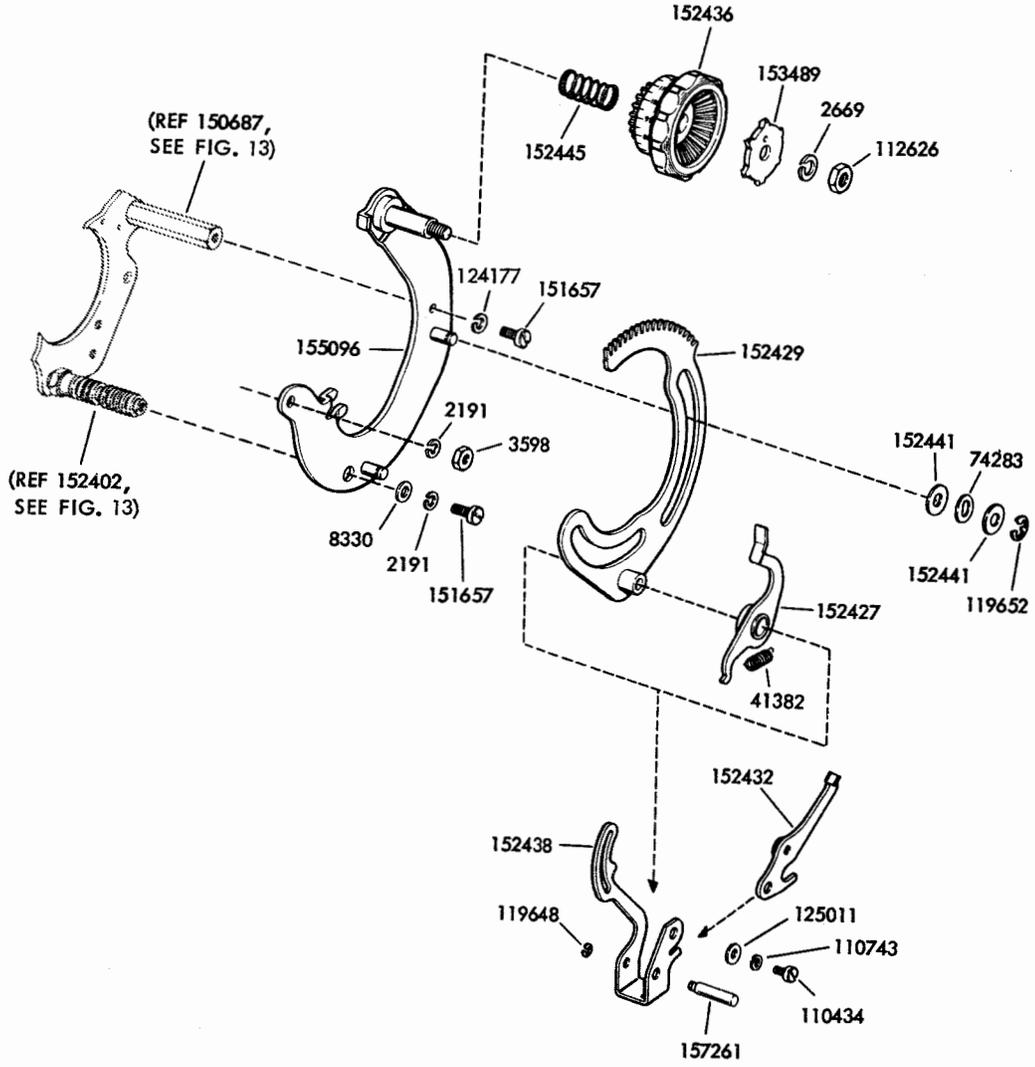


FIGURE 12. RANGE FINDER MECHANISM

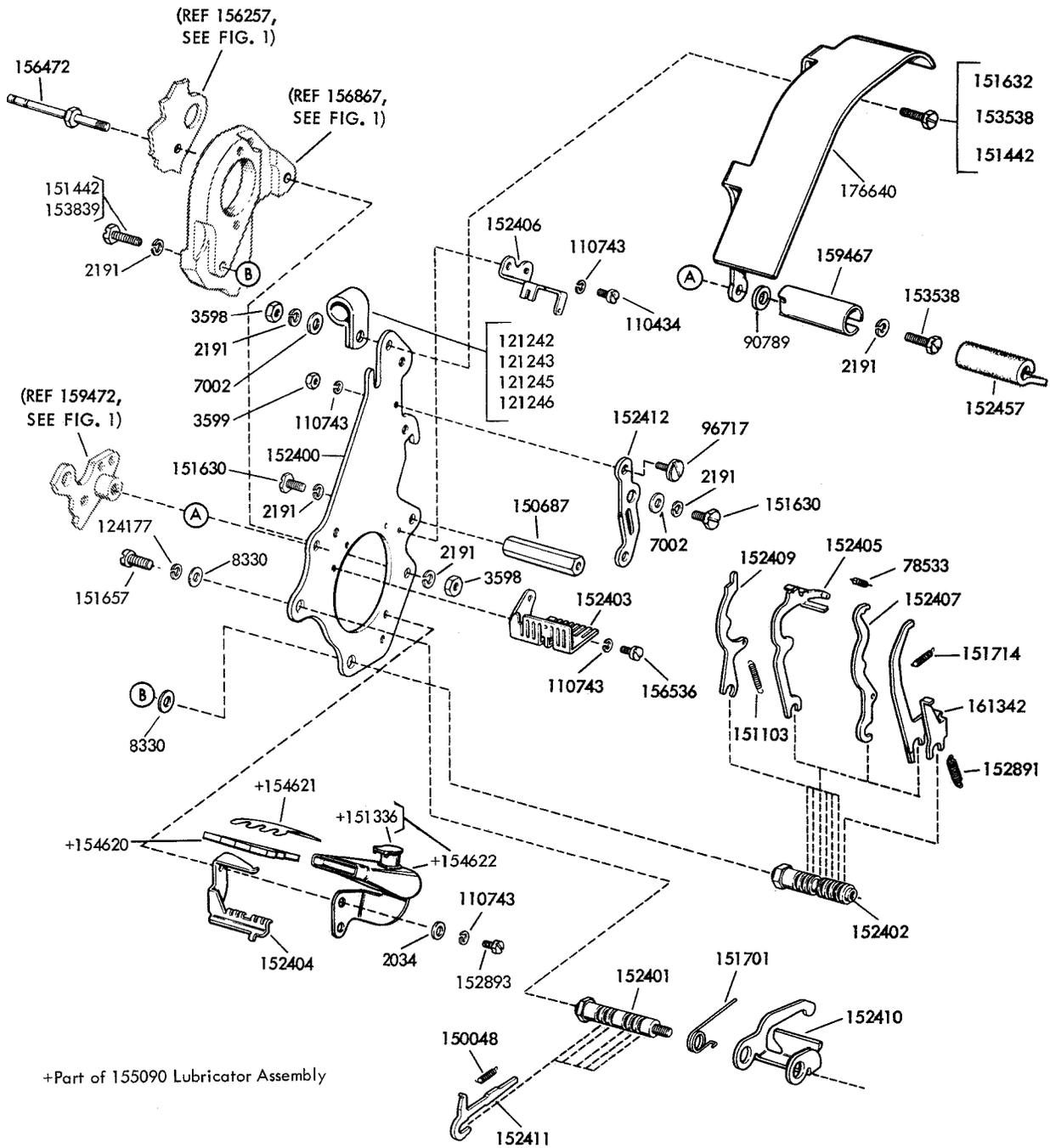
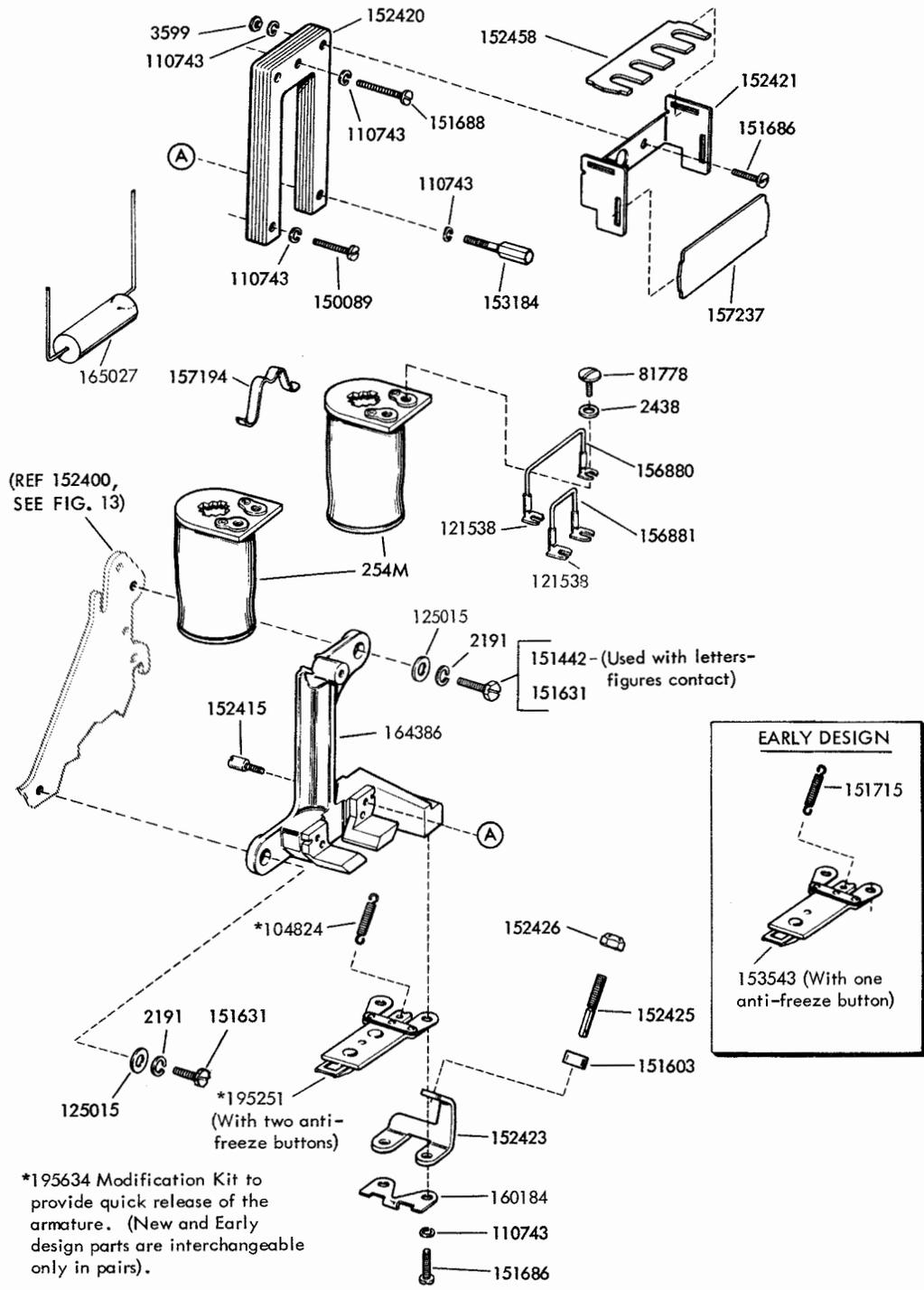


FIGURE 13. SELECTING MECHANISM



195634 - Specification 501655

FIGURE 14. SELECTING MAGNET MECHANISM

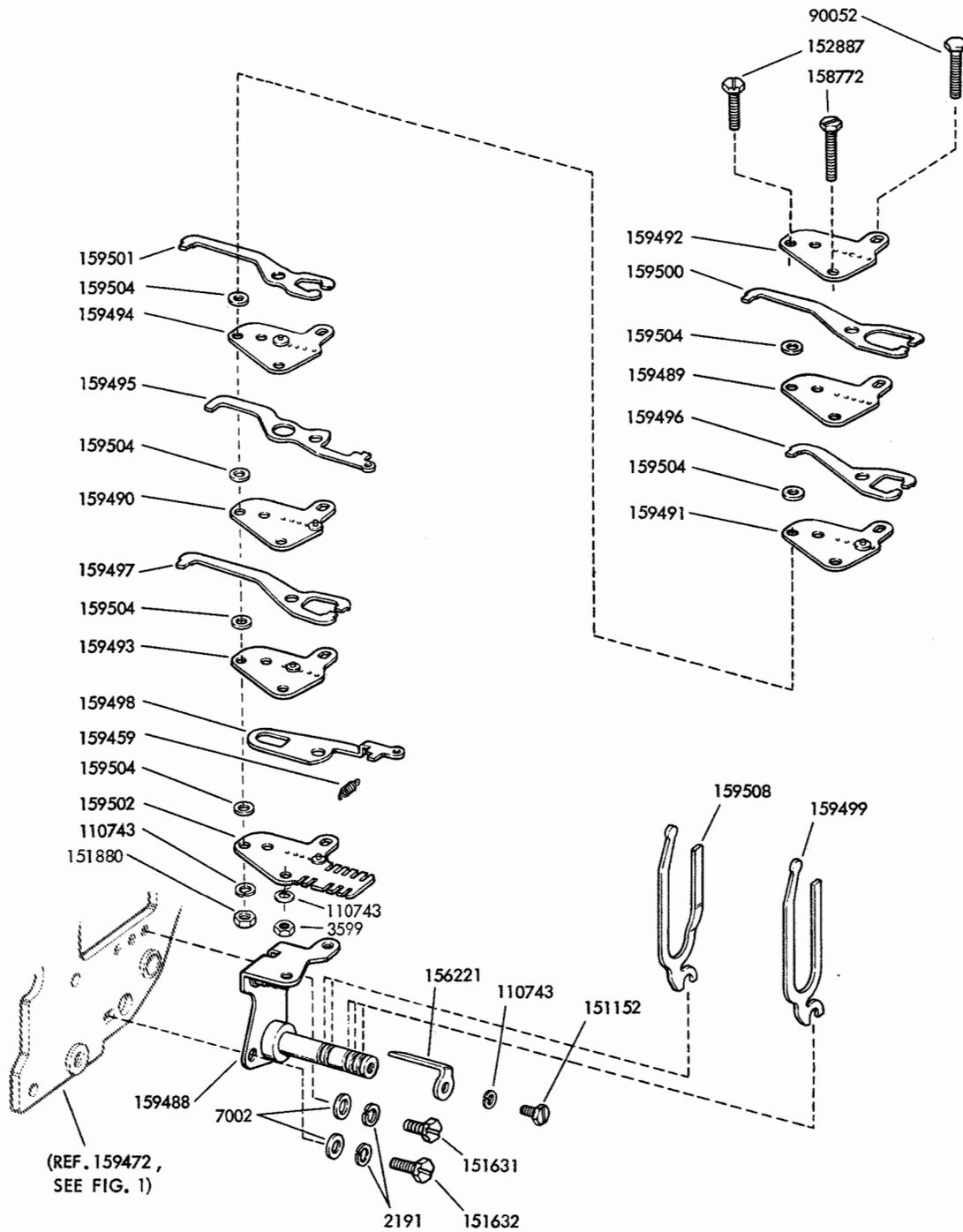
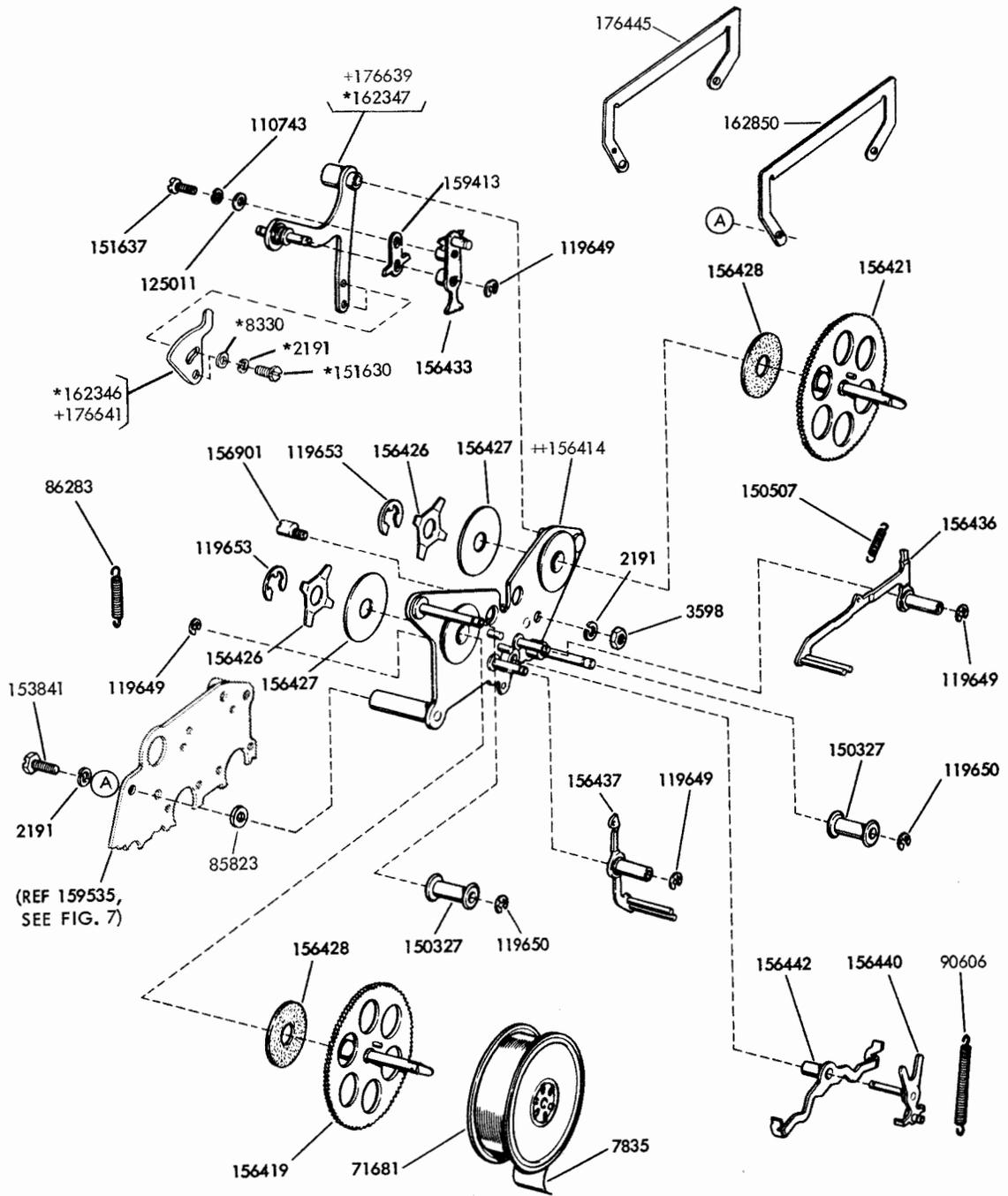


FIGURE 15. TRANSFER MECHANISM



For Latest Design Ribbon Feed Mechanism See Figure 44)

*The ribbon drive arm (formerly 156431) has been redesigned and assigned part number 162347. When it is necessary to replace an old style ribbon drive arm, a 154325 modification kit to provide an adjustable drive arm (includes all parts marked with an asterisk) should be ordered.

++The 156414 mounting plate has been redesigned and now includes the drive arm spring mounting post. The post replaced the 159993 spring bracket which is still available for maintenance.

154325 - Specification 59615

+Peculiar to units printing between feed holes

FIGURE 16. EARLY DESIGN RIBBON FEED MECHANISM

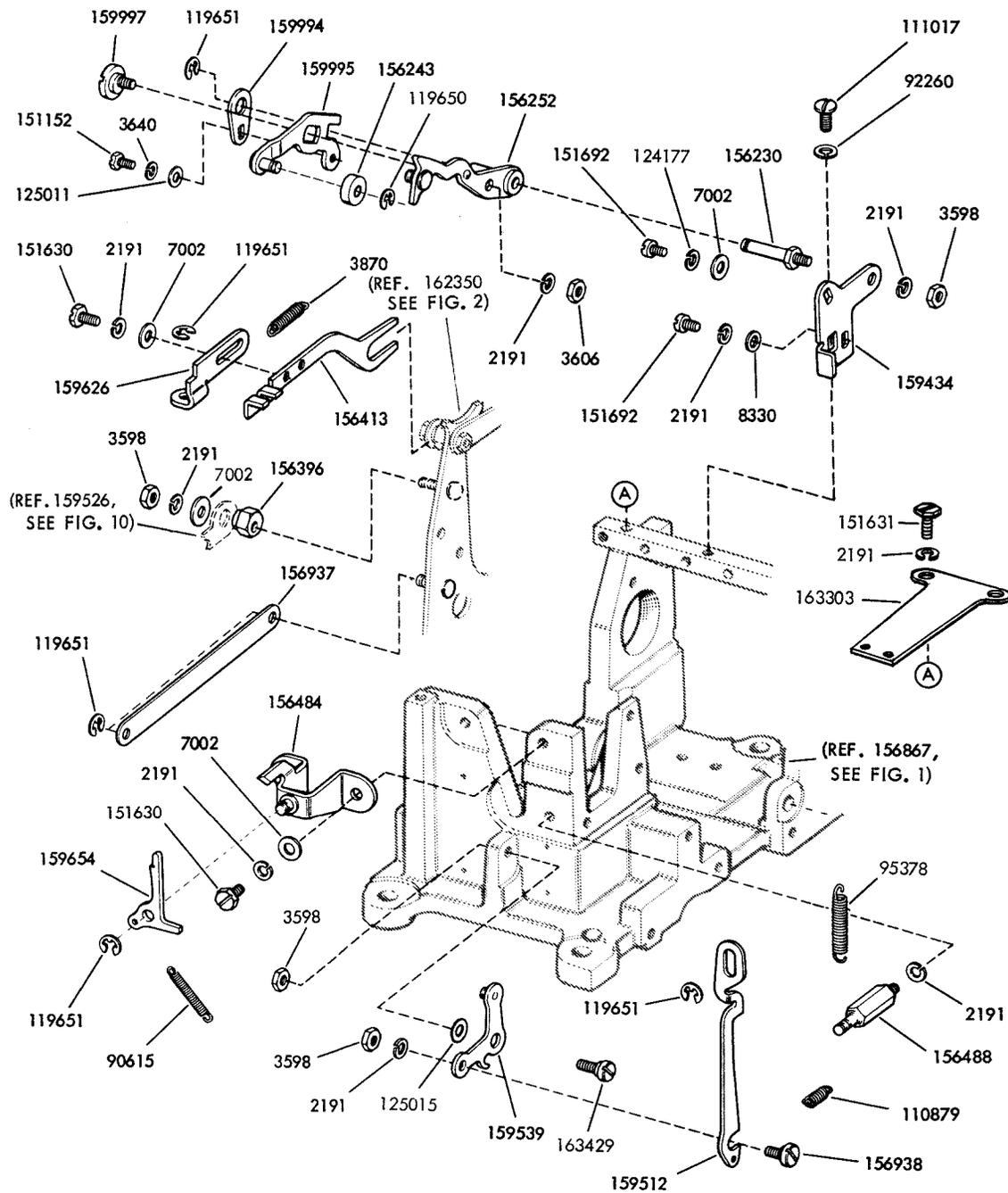


FIGURE 17. TYPING MECHANISM

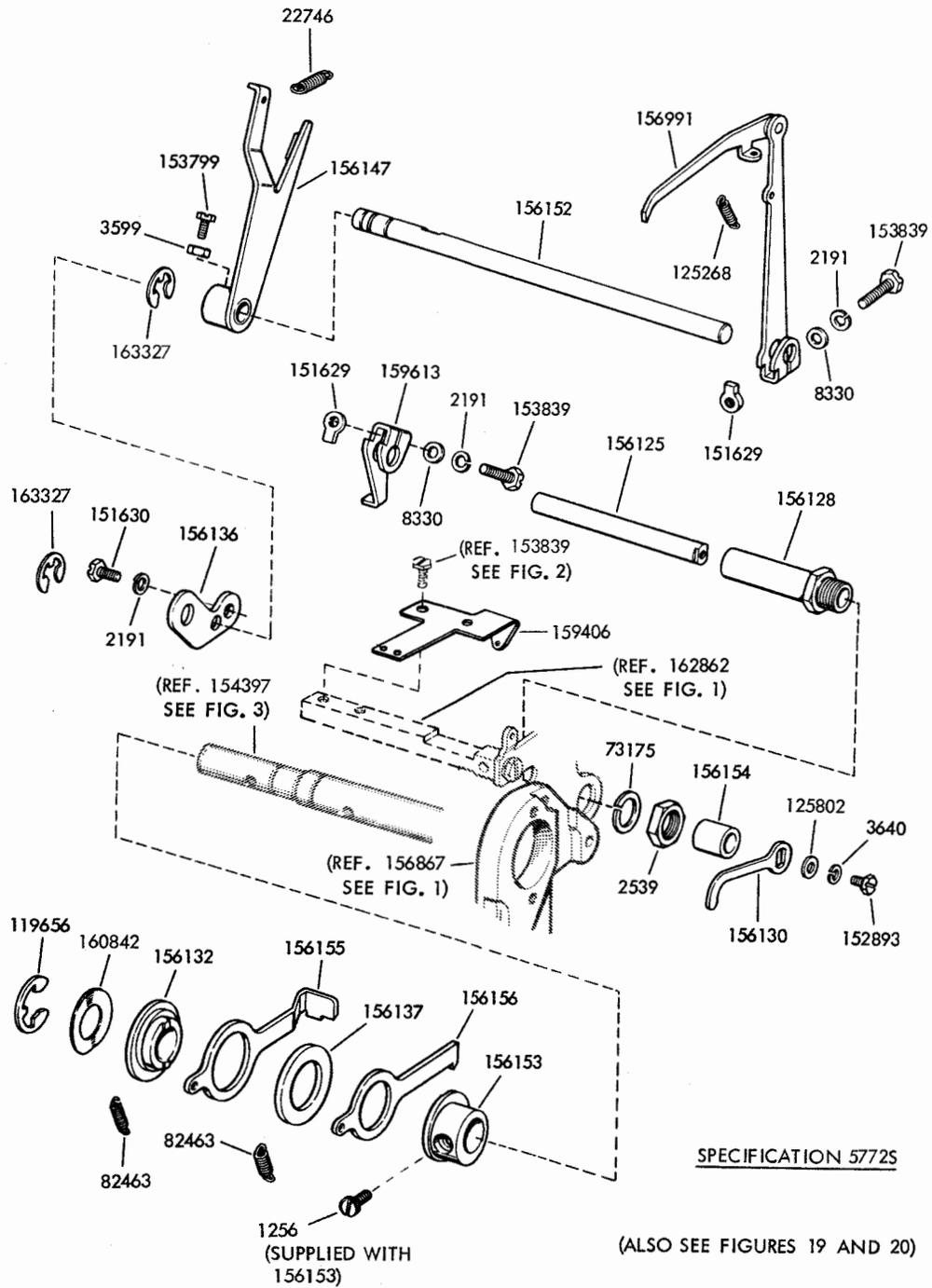
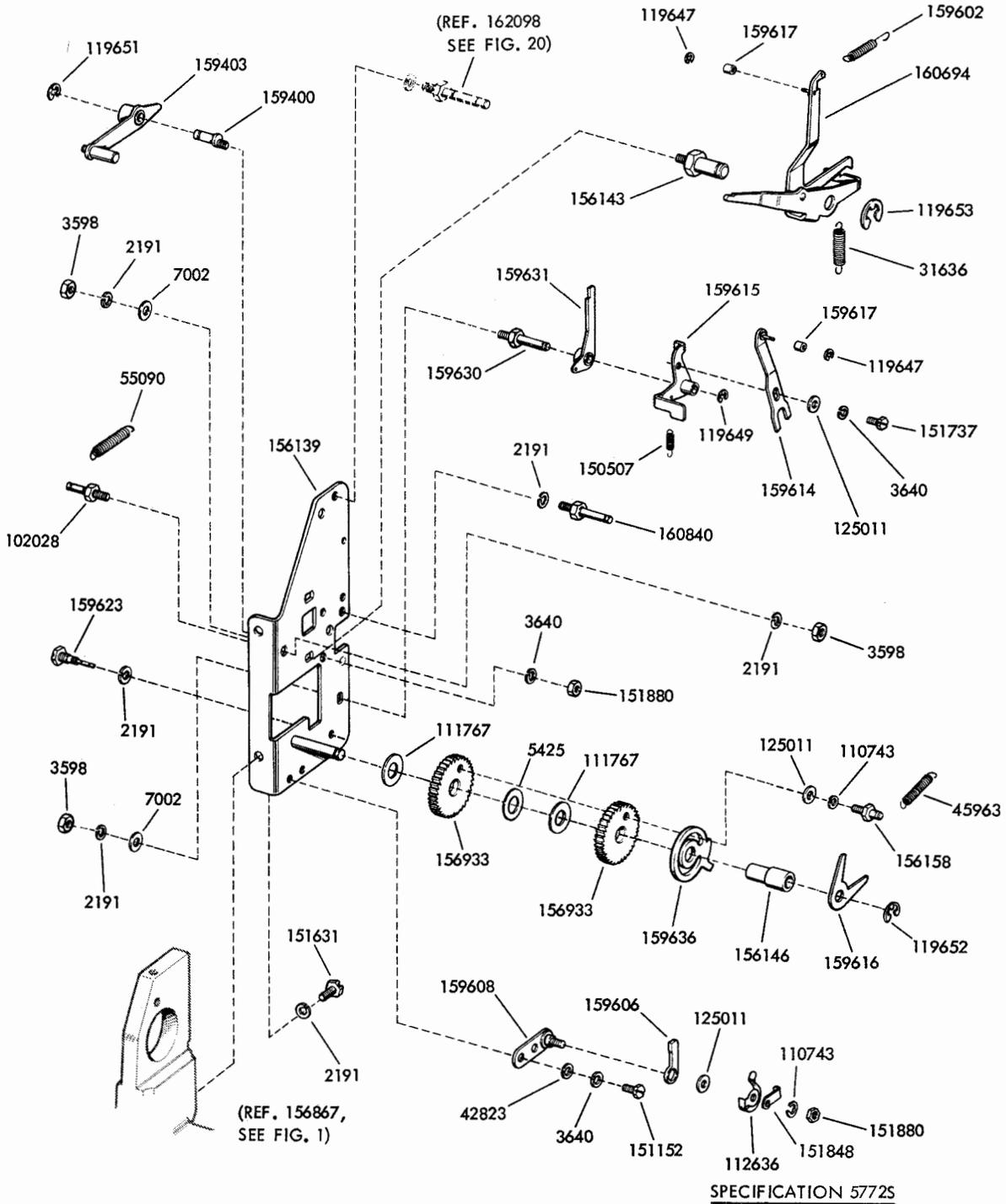


FIGURE 18. 159351 AND 162434 MODIFICATION KITS TO ADD NON-INTERFERING BLANK TAPE FEED-OUT



(ALSO SEE FIGURES 18 AND 20)

FIGURE 19. 159351 AND 162434 MODIFICATION KITS TO ADD NON-INTERFERING BLANK TAPE FEED-OUT

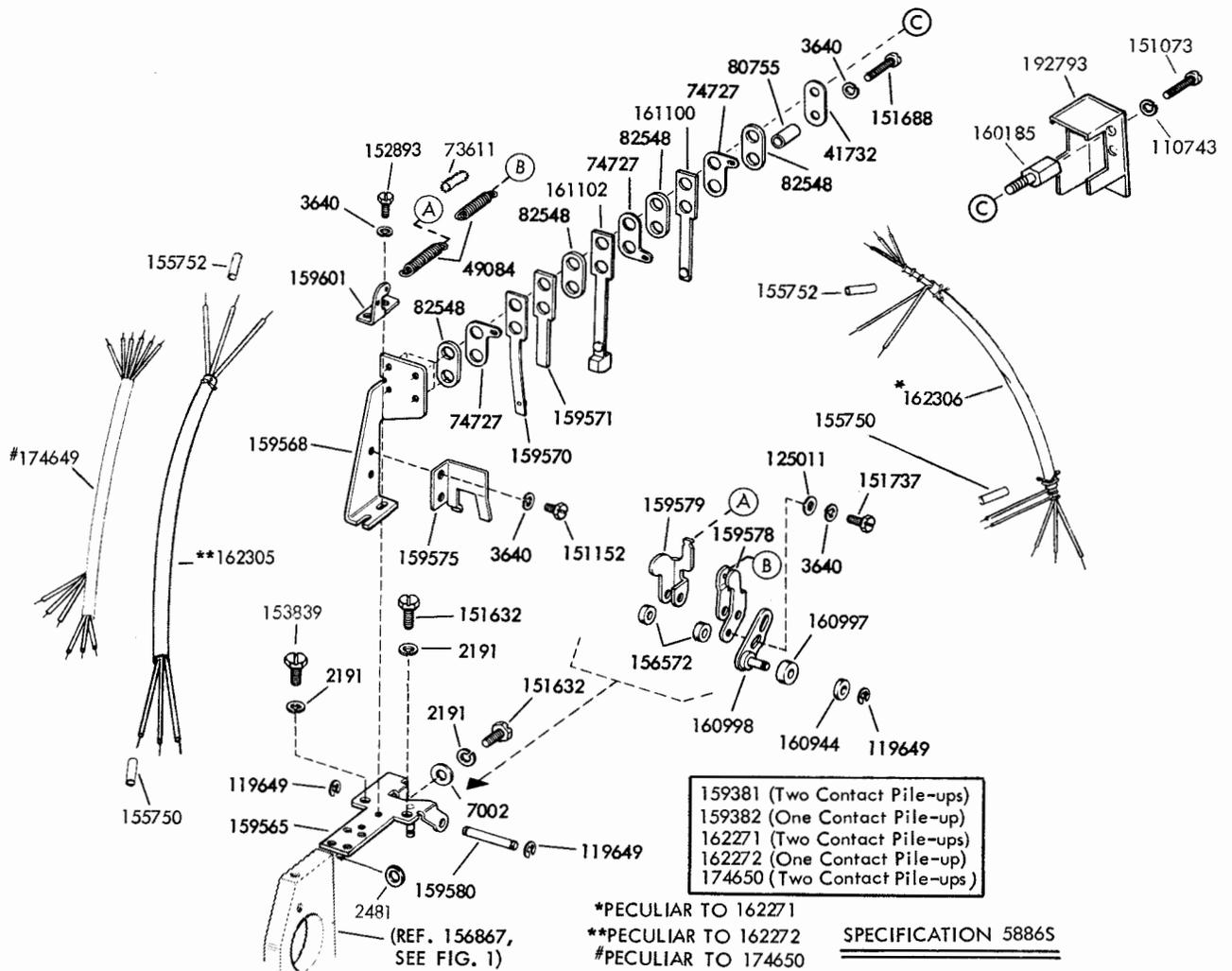


FIGURE 21. MODIFICATION KITS TO ADD TIMING CONTACTS

Variable Features of the Modification Kits			
MODIFICATION KIT	CONTACT ASSEMBLY		CABLE*
	TRANSFER	MAKE-ONLY	
159379		158950	
159380	156078		
162273	156078		162304
162274		158950	162303
163945	156078		163946

*CABLES ILLUSTRATED ON FIGURE 57.

SPECIFICATION 58865

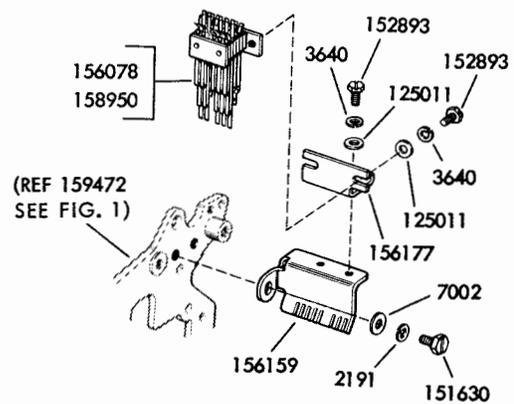
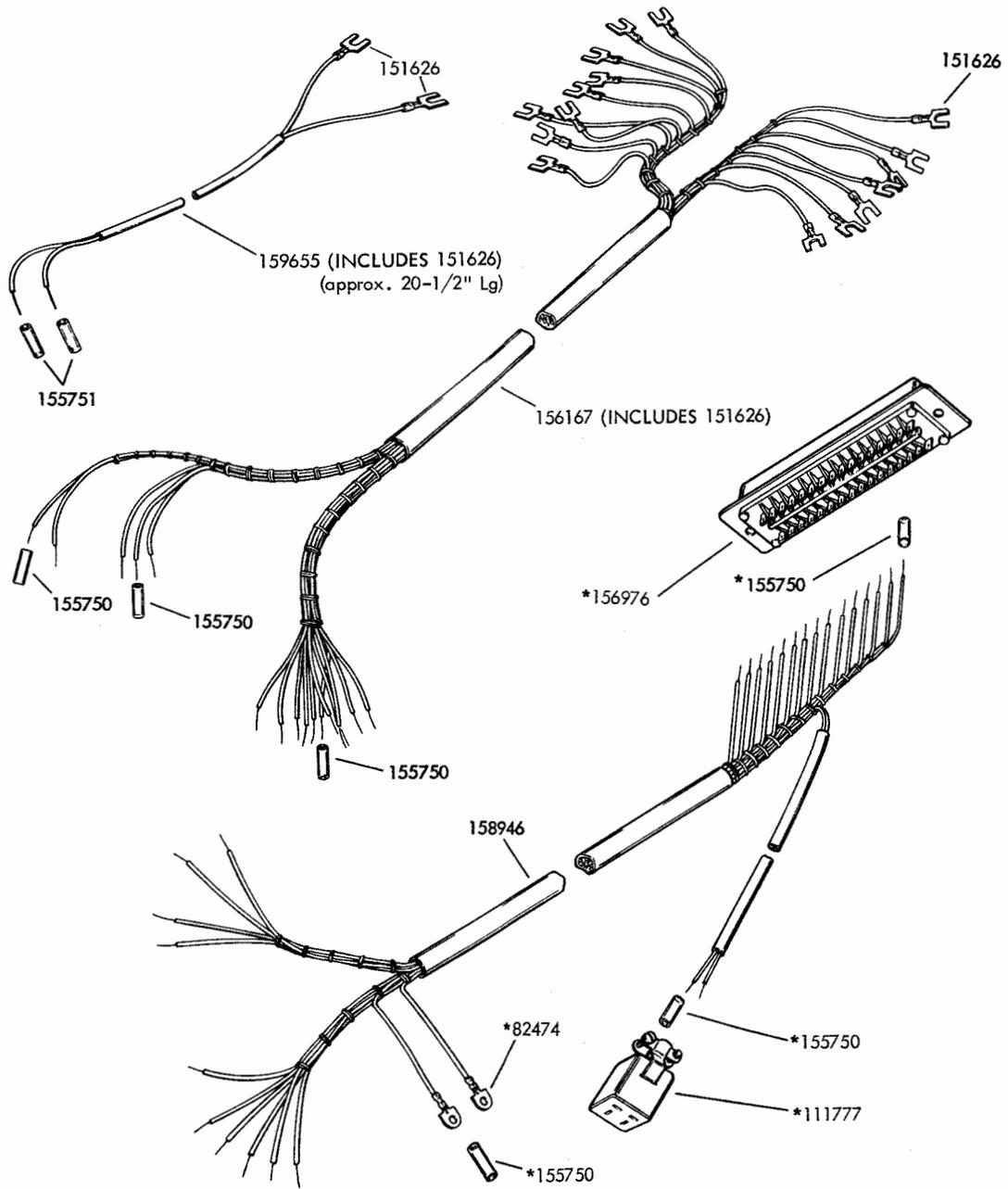


FIGURE 22. MODIFICATION KITS TO ADD CODE READING CONTACTS



*Peculiar to 158946

FIGURE 23. CABLES

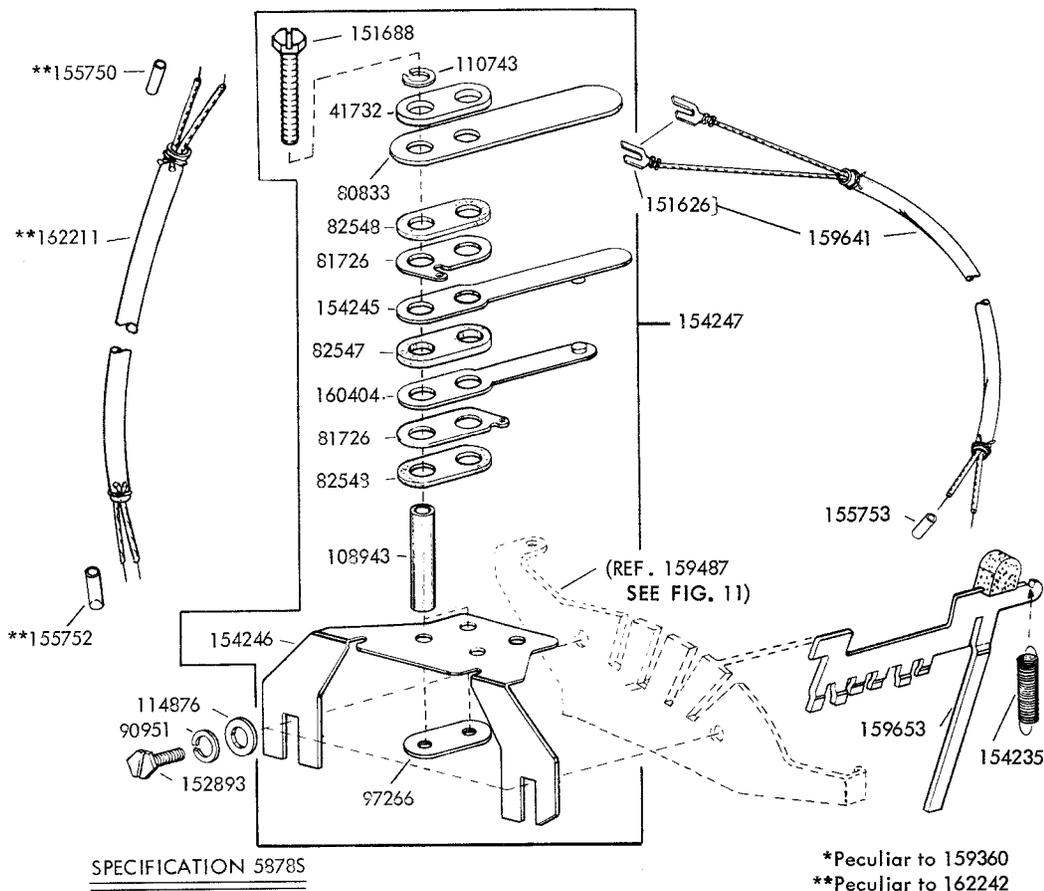


FIGURE 24. 159360 AND 162242 MODIFICATION KITS TO ADD SIGNAL BELL CONTACT

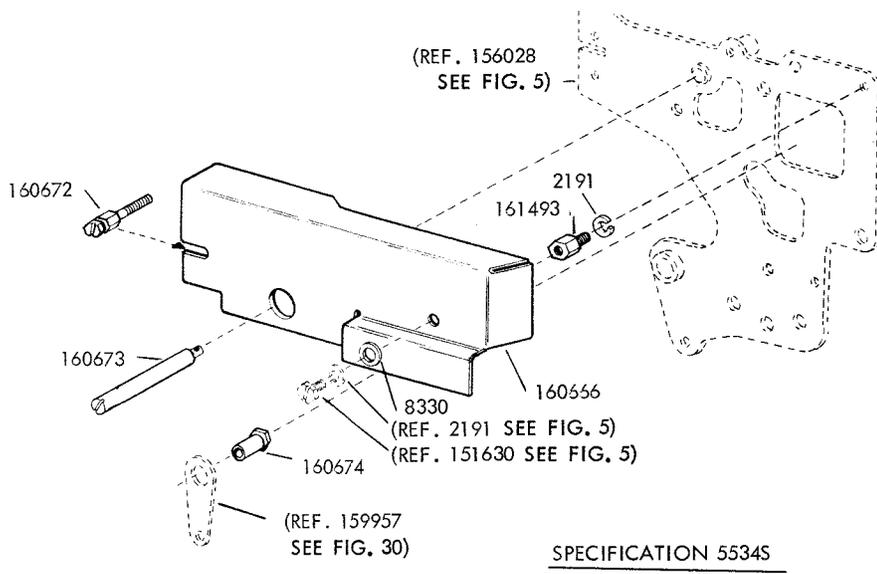


FIGURE 25. 160881 MODIFICATION KIT TO ADD GUARD FOR BACKSPACE MECHANISM (PRINTING ON EDGE OF TAPE)

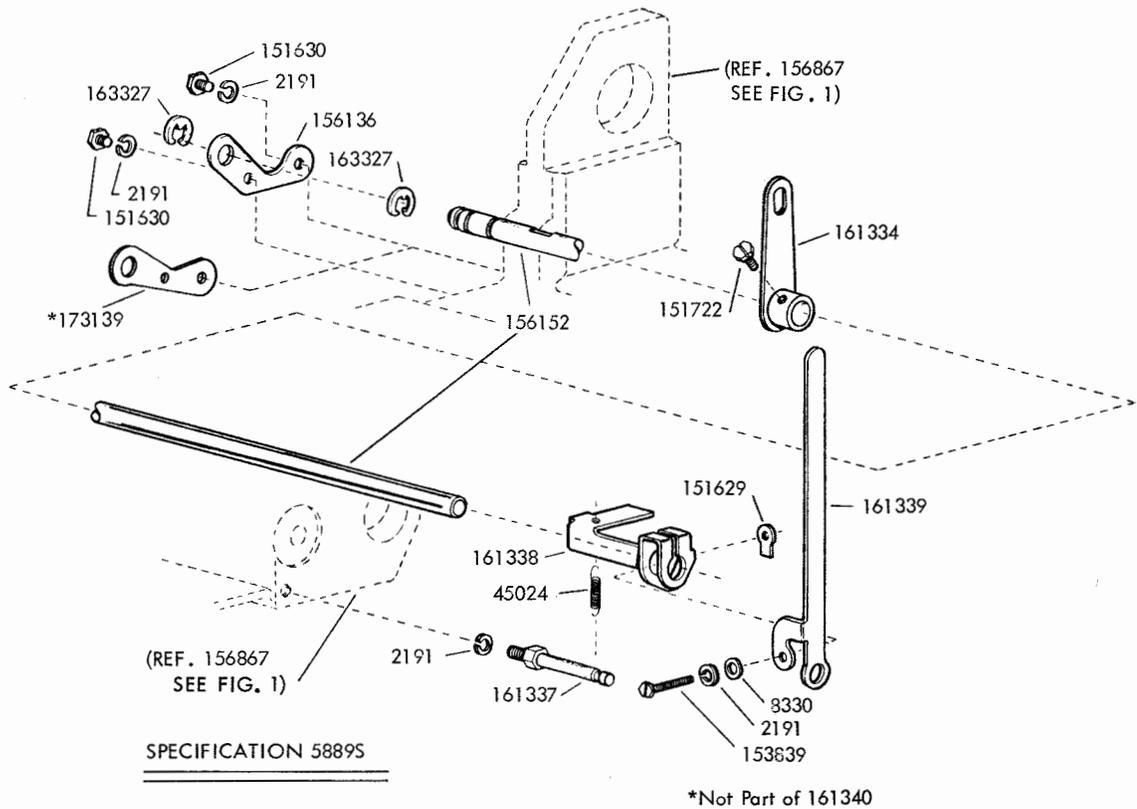


FIGURE 26. 161340 MODIFICATION KIT TO ADD MANUAL INTERFERING LETTERS TAPE FEED-OUT

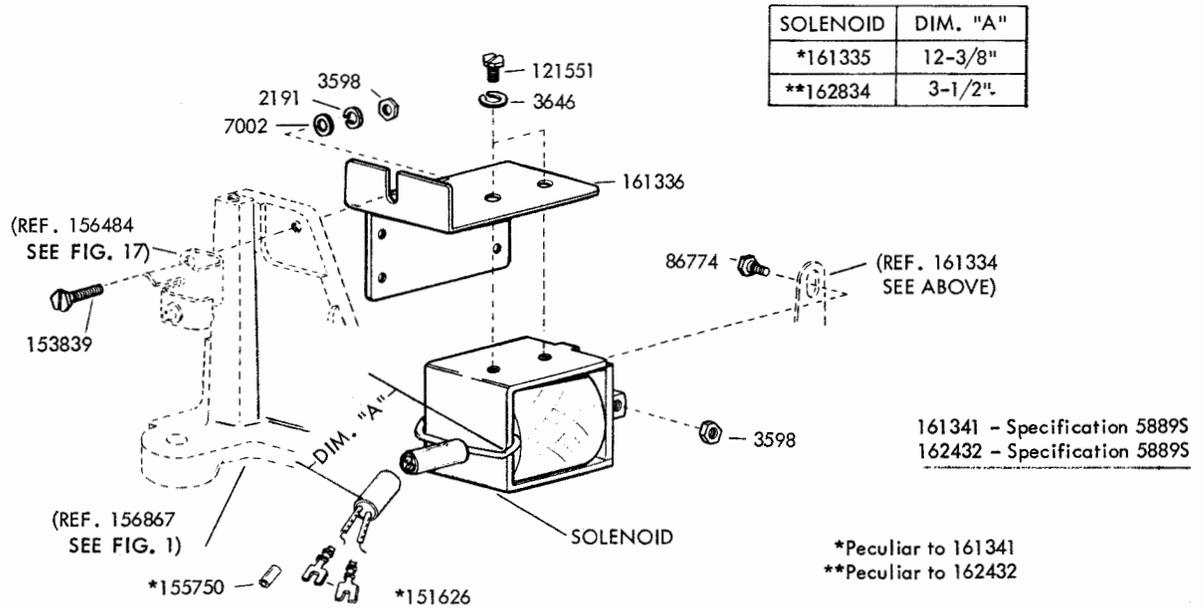


FIGURE 27. 161341 AND 162432 MODIFICATION KITS TO ADD SOLENOID OPERATIONS TO LETTERS FEED-OUT

ASR GEAR SETS - 5 LEVEL CODE								
Set Number	Pinion	Teeth	Driven Gear	Teeth	Speed			
					7.00 Unit Code		7.42 Unit Code	
					WPM	Baud	WPM	Baud
163023	159894 (S)	28	159895 (F)	80	—	—	60	45.45
	163021 (N)				163022 (N)			
163024	159891 (S)	21	159892 (F)	48	—	—	75	56.88
	163019 (N)				163020 (N)			
163025	159888 (S)	28	159889 (F)	49	—	—	100	74.2
	163015 (N)				163018 (N)			
163457	163455 (S)	20	163456 (F)	52	71	50	—	—
163502	163501 (S)	30	163500 (F)	52	107	75	—	—
173992	173993 (S)	14	173994 (F)	40	65	45.45	—	—
195184	195182 (N)	20	195183 (N)	52	—	—	67	50

(S) = Steel
(F) = Fiber
(N) = Nylon

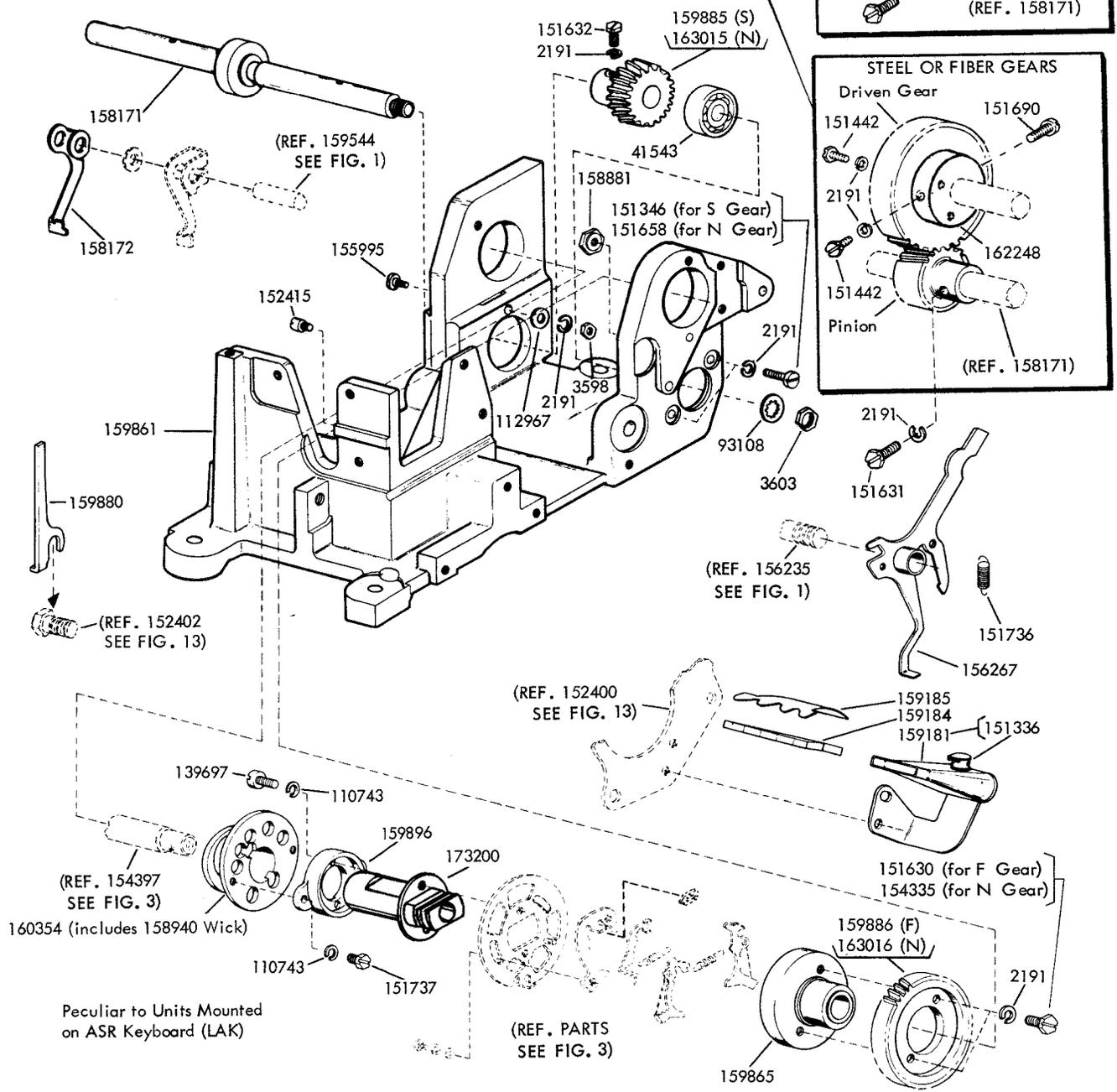
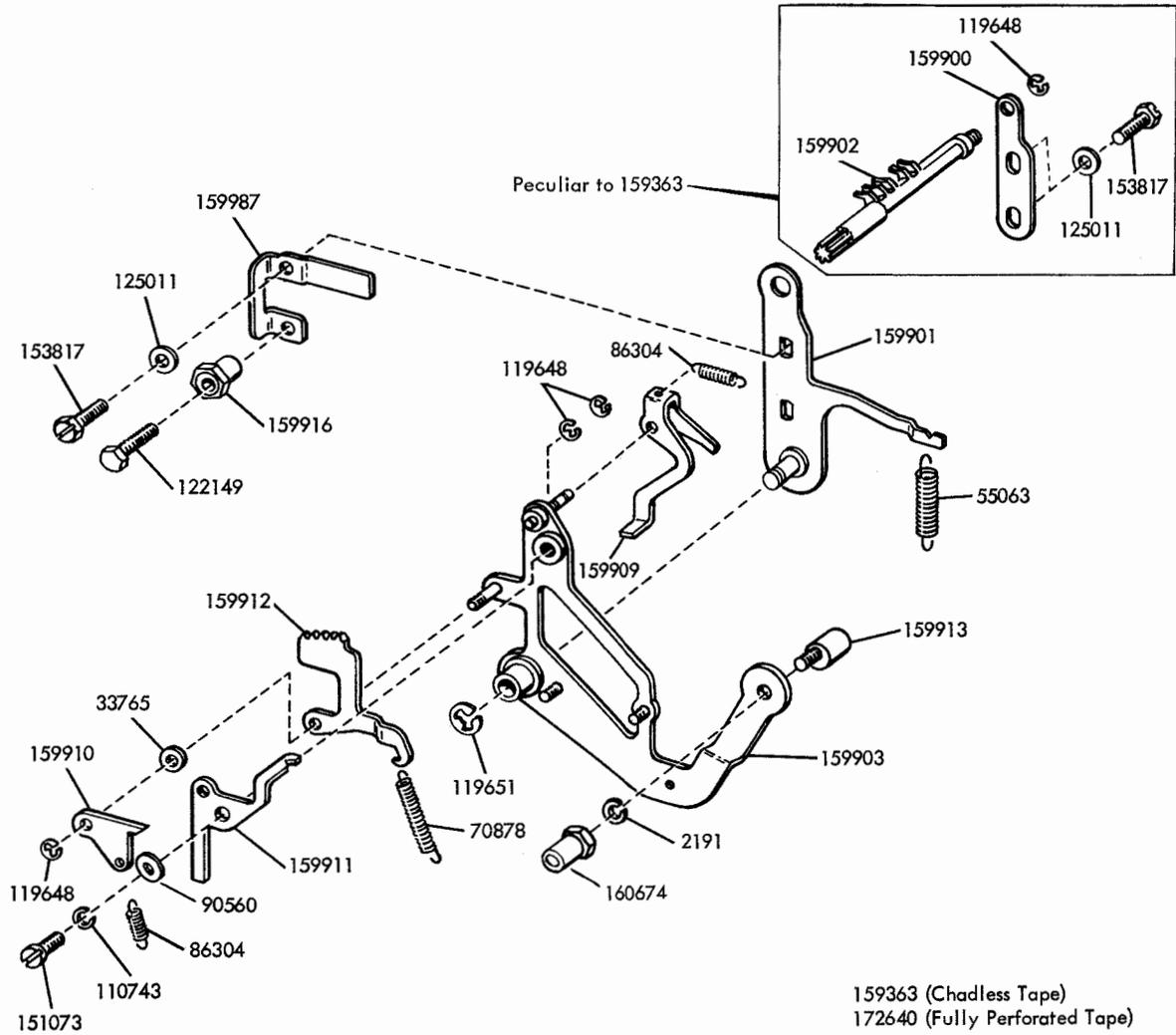


FIGURE 28. TWO-SHAFT MECHANISM



159363 - Specification 5534S
172640 - Specification 5534S

FIGURE 29. 159363 AND 172640 MODIFICATION KITS TO ADD MANUAL BACKSPACE (PRINTING ON EDGE OF TAPE)

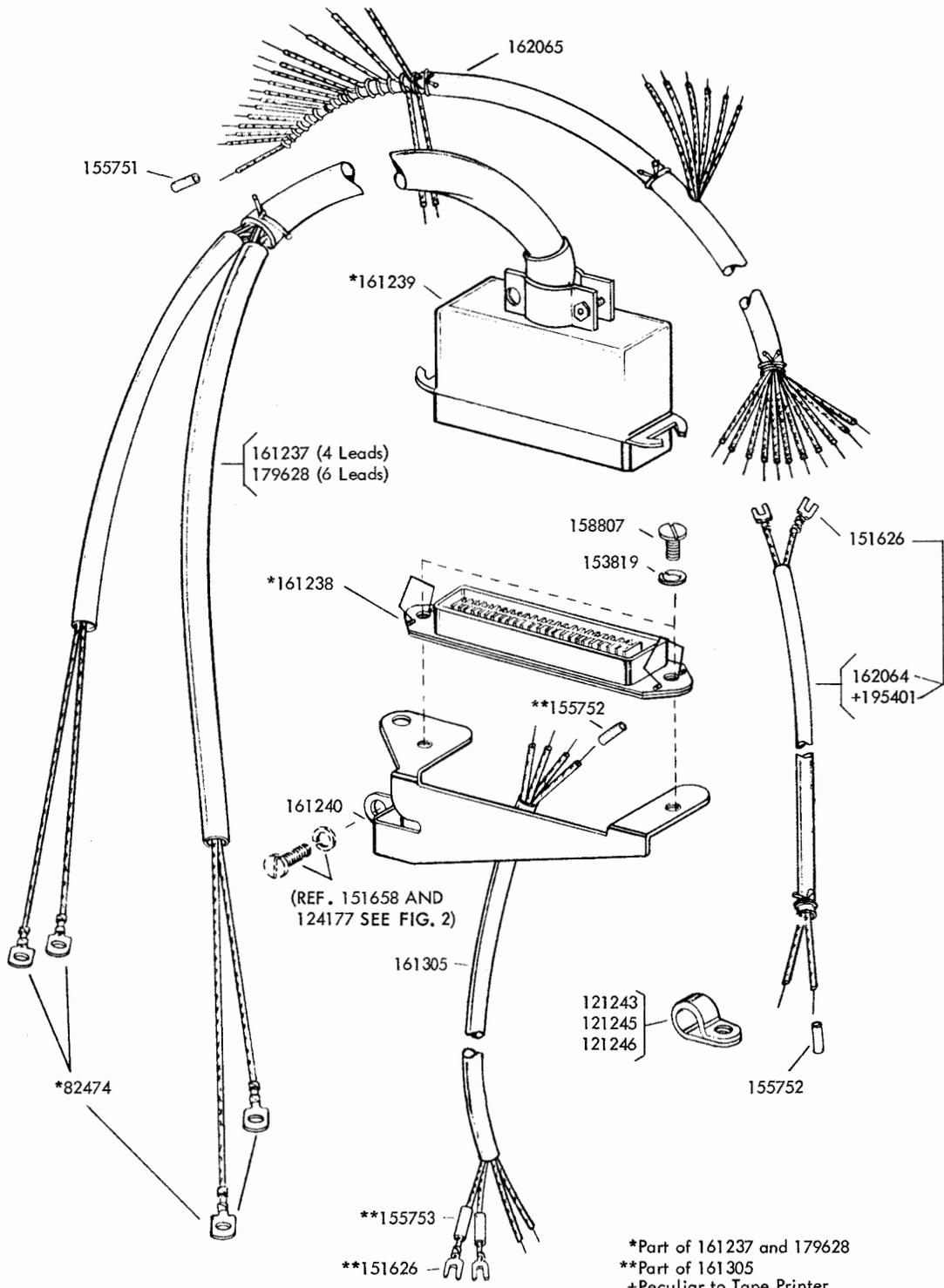
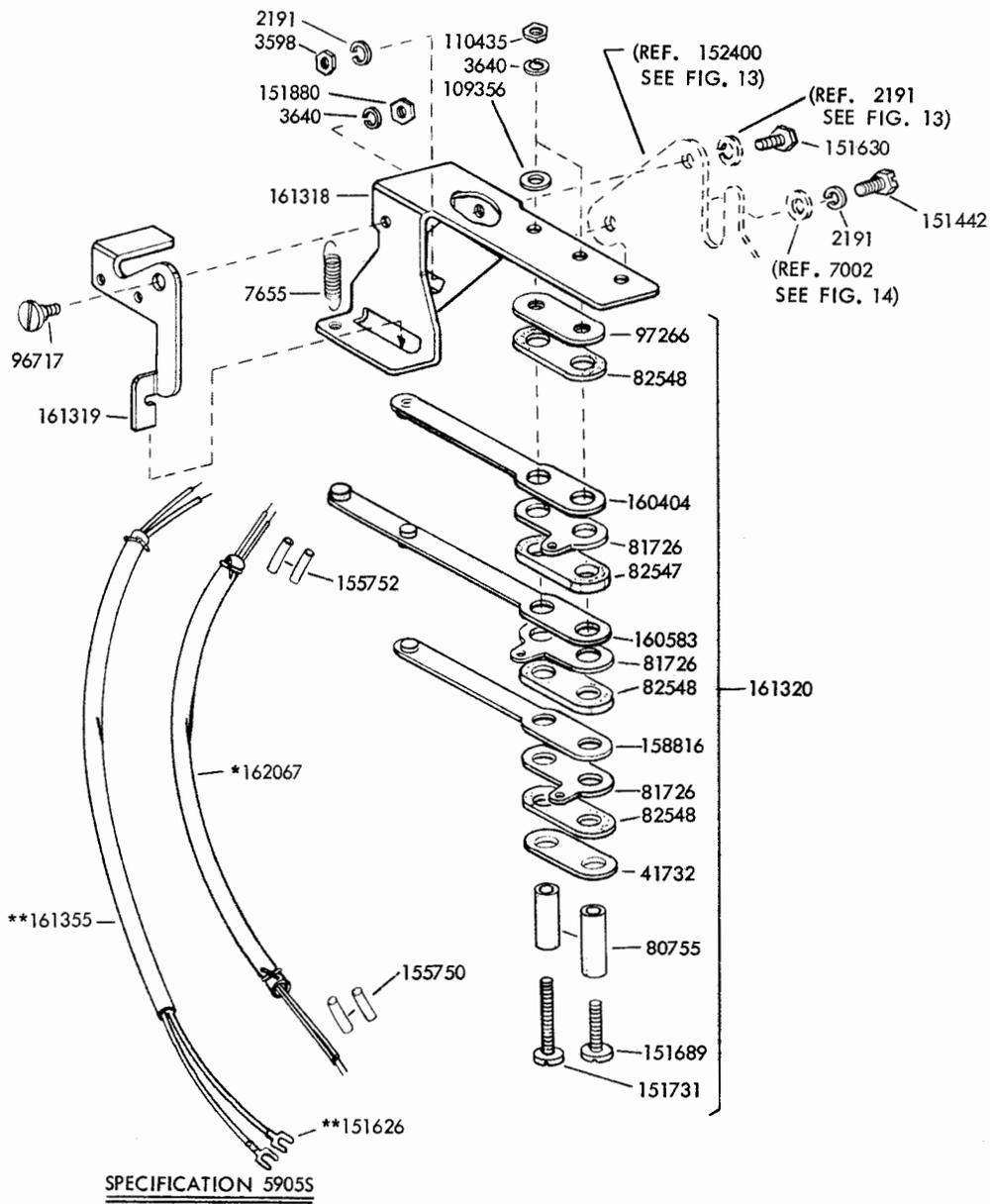
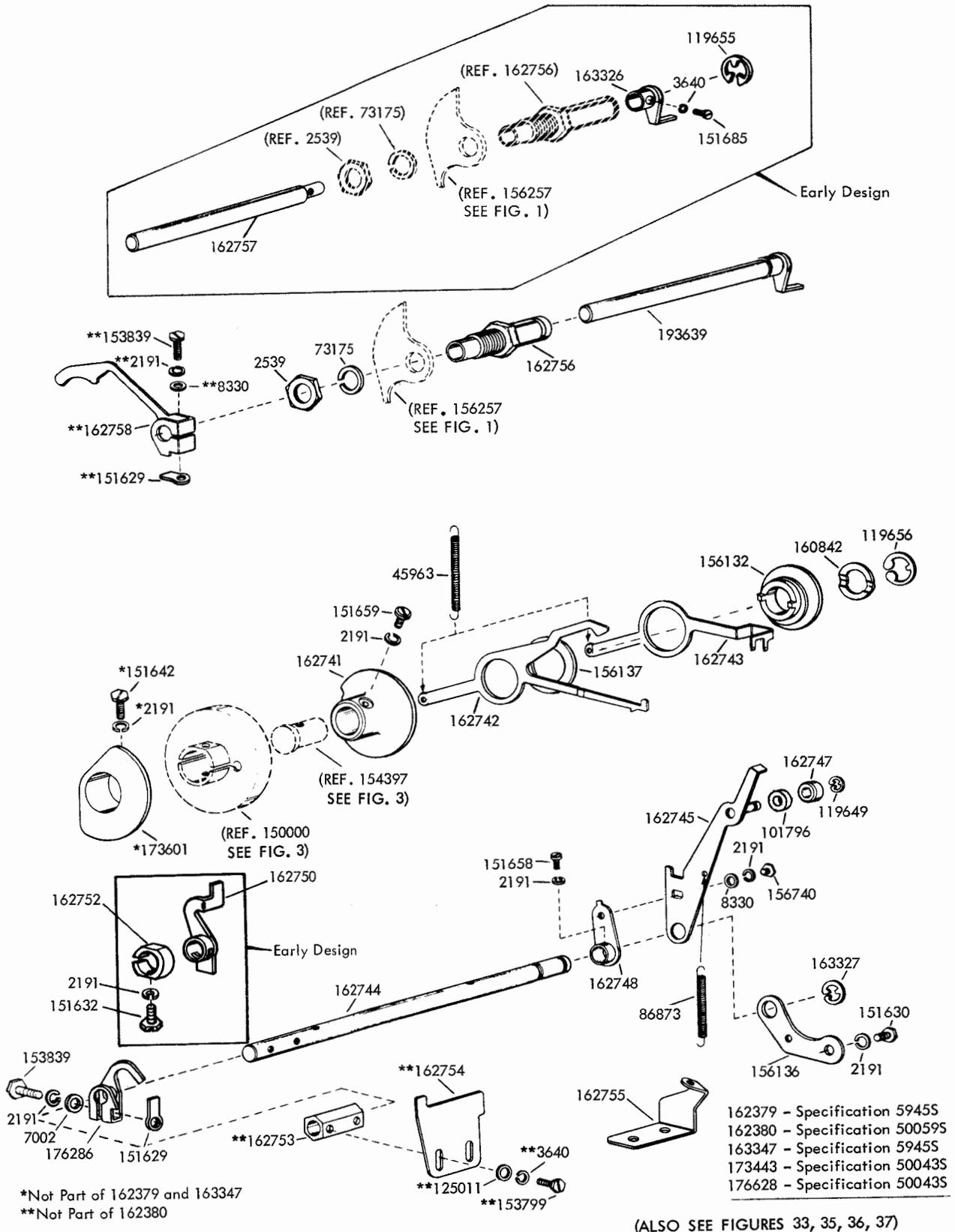


FIGURE 31. CABLES



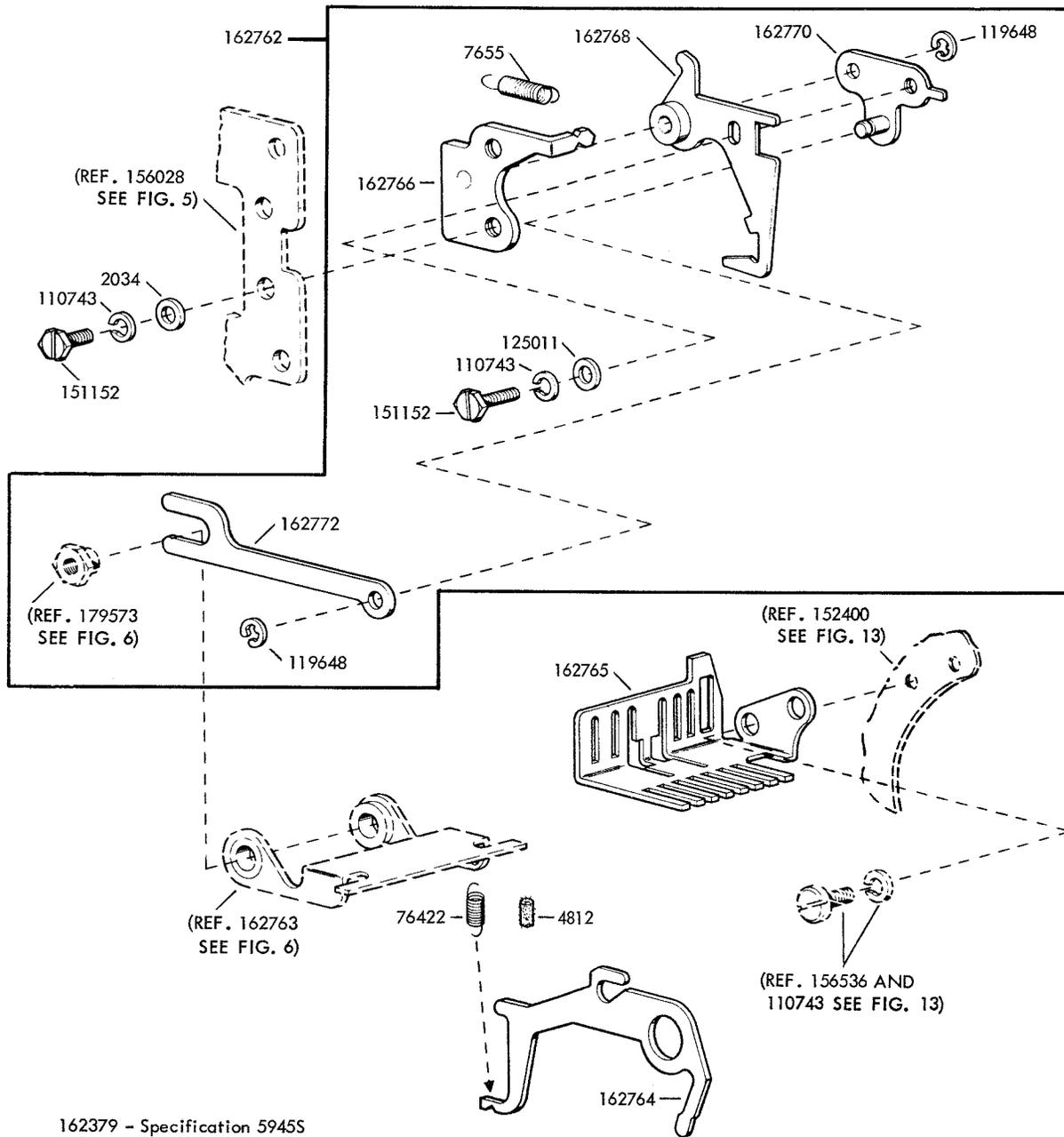
*Peculiar to 162247 - for Units Equipped with Connector .
 **Peculiar to 161321 - for Units not Equipped with Connector .

FIGURE 32. 161321 AND 162247 LETTERS - FIGURES CONTACT ASSEMBLY



(ALSO SEE FIGURES 33, 35, 36, 37)

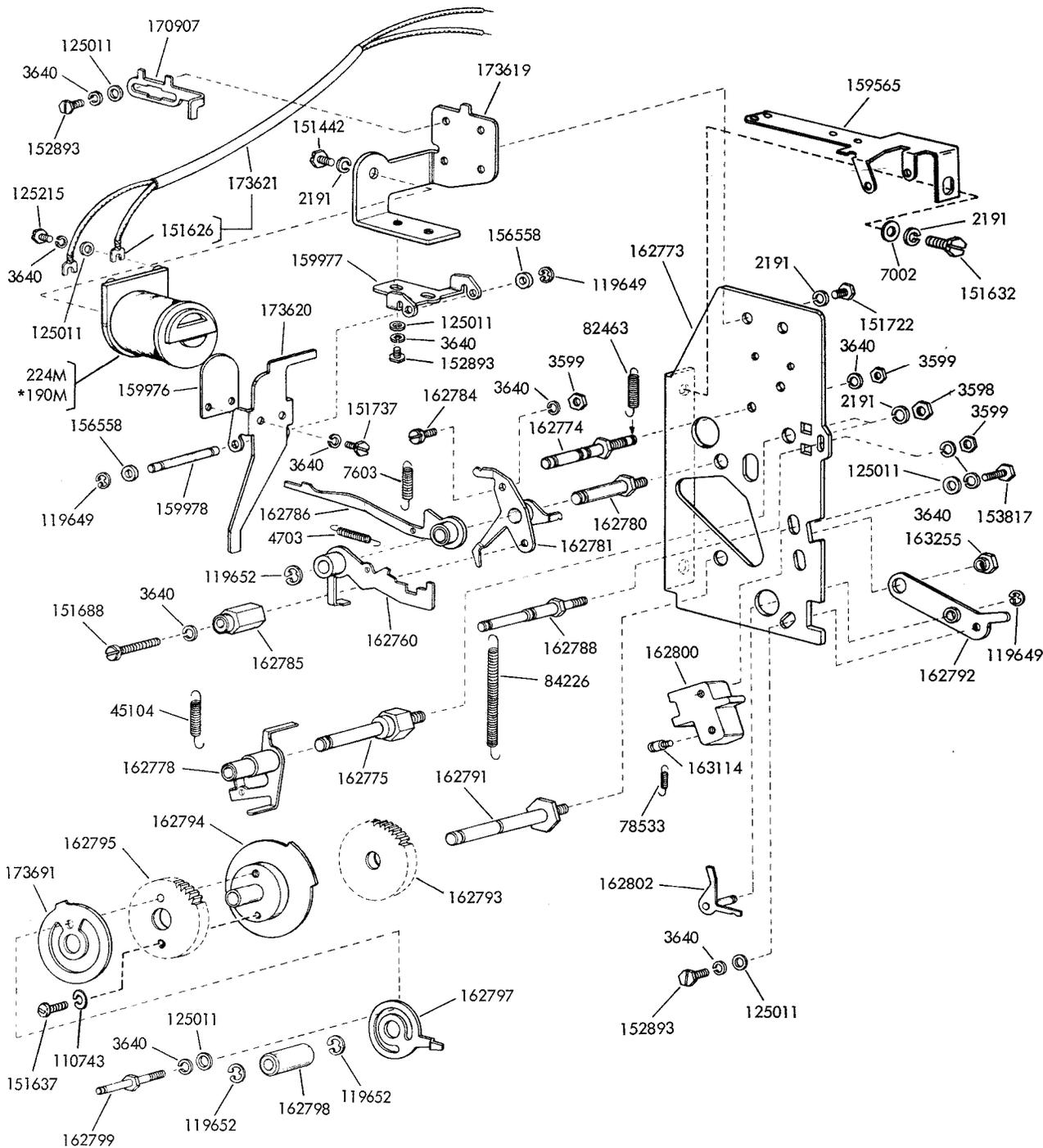
FIGURE 34. 162379 (AUTOMATIC LETTERS), 162380 (REMOTE CONTROL BLANK), 163347 (AUTOMATIC LETTERS), 173443 (REMOTE CONTROL LETTERS) AND 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED-OUT



- 162379 - Specification 5945S
- 162380 - Specification 50059S
- 163347 - Specification 5945S
- 173443 - Specification 50043S
- 176628 - Specification 50043S

(ALSO SEE FIGURES 33, 34, 36, 37)

FIGURE 35. 162379 (AUTOMATIC LETTERS), 162380 (REMOTE CONTROL BLANK), 163347 (AUTOMATIC LETTERS), 173443 (REMOTE CONTROL LETTERS) AND 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED-OUT

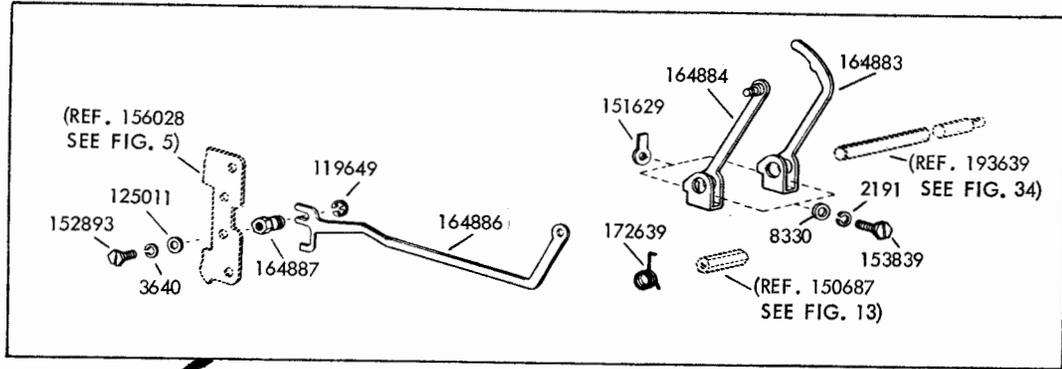


162380 - Specification 50059S
 173443 - Specification 50043S
 176628 - Specification 50043S

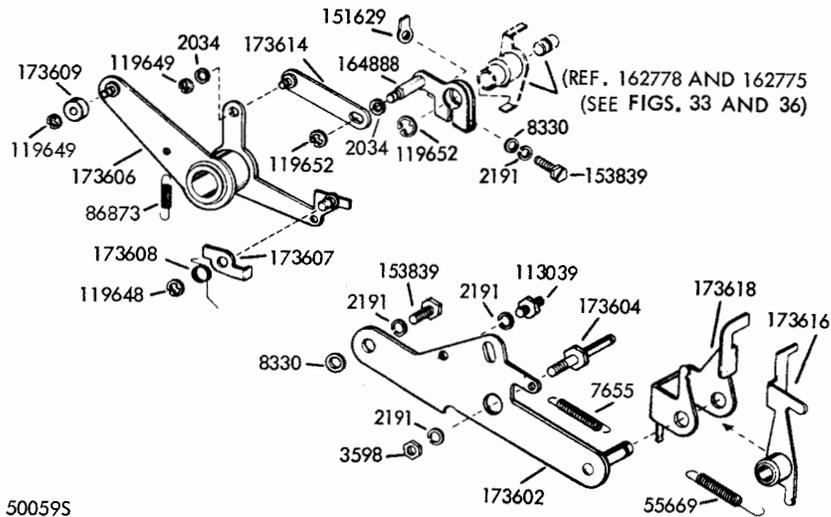
*Peculiar to 176628

(ALSO SEE FIGURES 34, 35, 37)

FIGURE 36. 162380 (BLANK), 173443 (LETTERS) AND 176628 (LETTERS) MODIFICATION KITS TO ADD REMOTE CONTROL NON-INTERFERING TAPE FEED-OUT



PECULIAR TO 162380 MODIFICATION KIT



- 162380 - Specification 50059S
- 173443 - Specification 50043S
- 176628 - Specification 50043S

(ALSO SEE FIGURES 34, 35, 36)

FIGURE 37. 162380 (BLANK), 173443 (LETTERS) AND 176628 (LETTERS) MODIFICATION KITS TO ADD REMOTE CONTROL NON-INTERFERING TAPE FEED-OUT

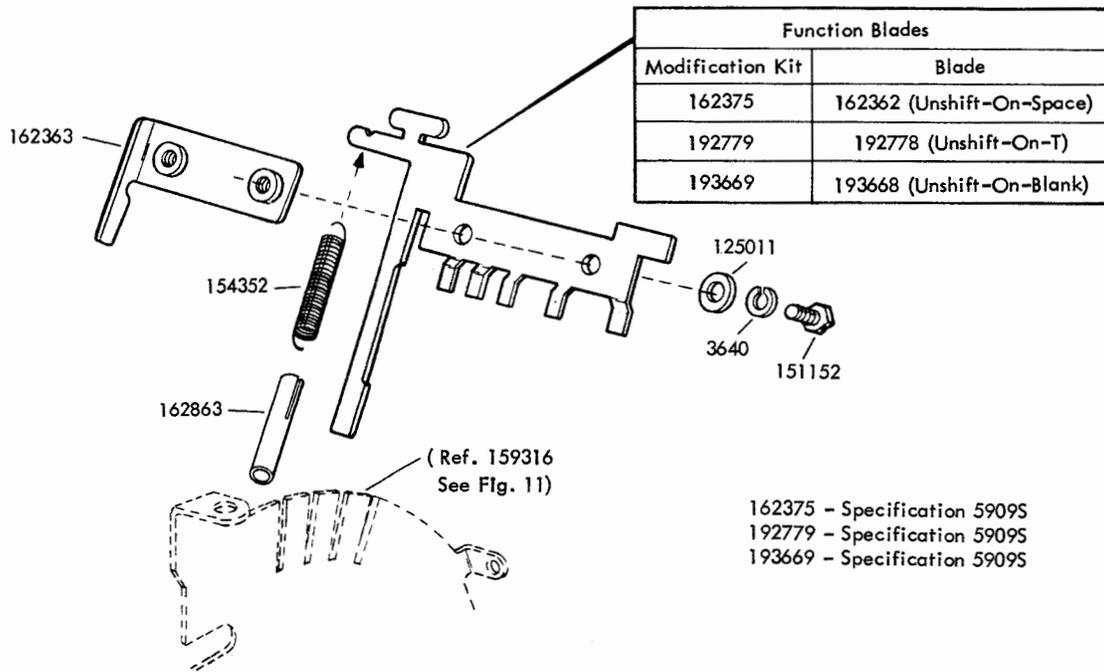
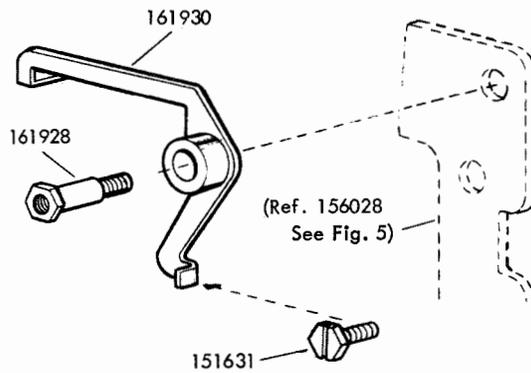


FIGURE 38. MODIFICATION KITS TO PROVIDE UNSHIFT FUNCTION



161828 - Specification 55345

FIGURE 39. 161828 MODIFICATION KIT TO MAKE TAPE BACKSPACE AND BLANK FEED-OUT COMPATIBLE

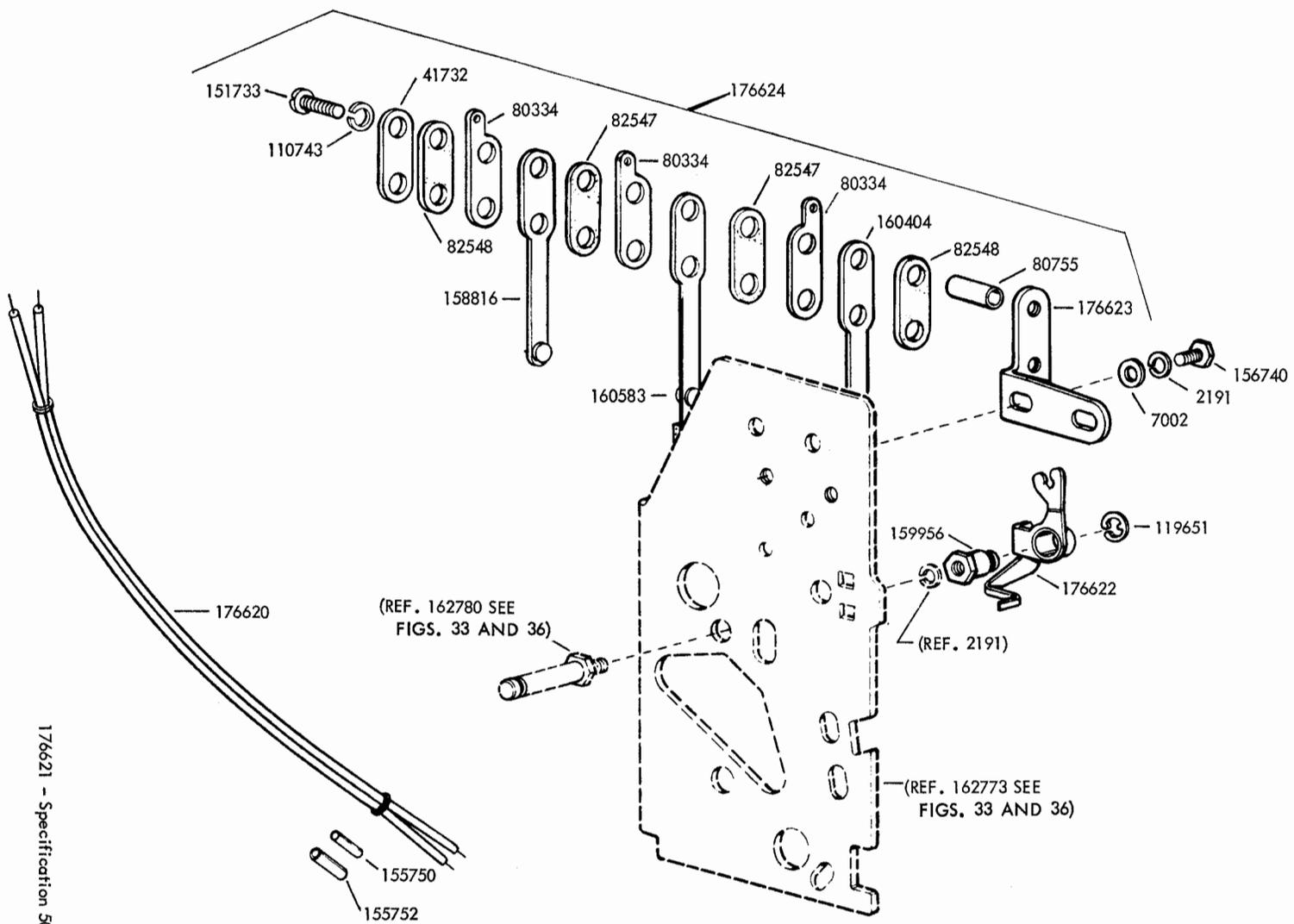
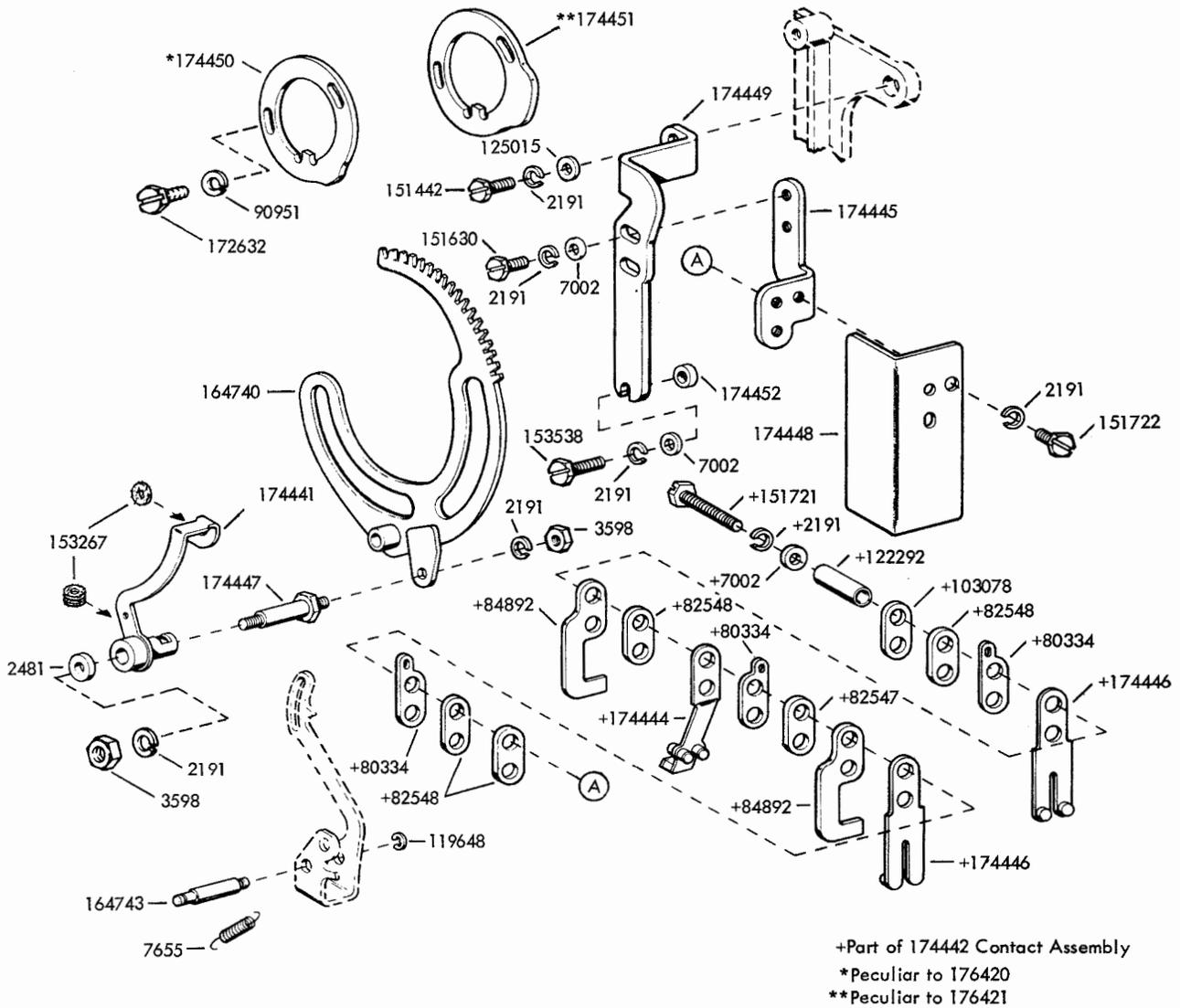


FIGURE 40. 176621 MODIFICATION KIT TO PROVIDE END OF FEED-OUT TIMING CONTACT FOR 176628 LETTERS TAPE FEED-OUT

176621 - Specification 500545



176420 - Specification 500415
 176421 - Specification 500415

FIGURE 41. 176420 AND 176421 MODIFICATION KITS TO ADD TIMING CONTACTS TO SELECTOR

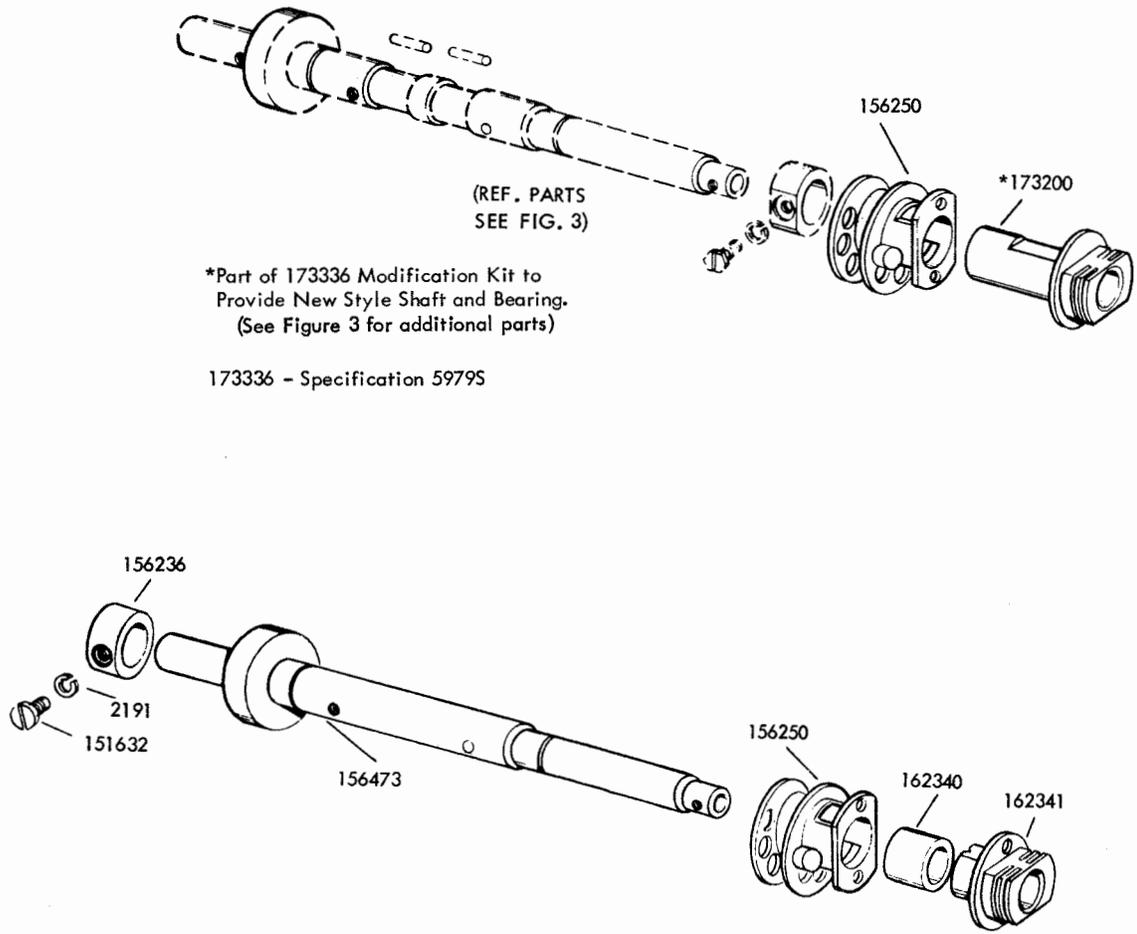
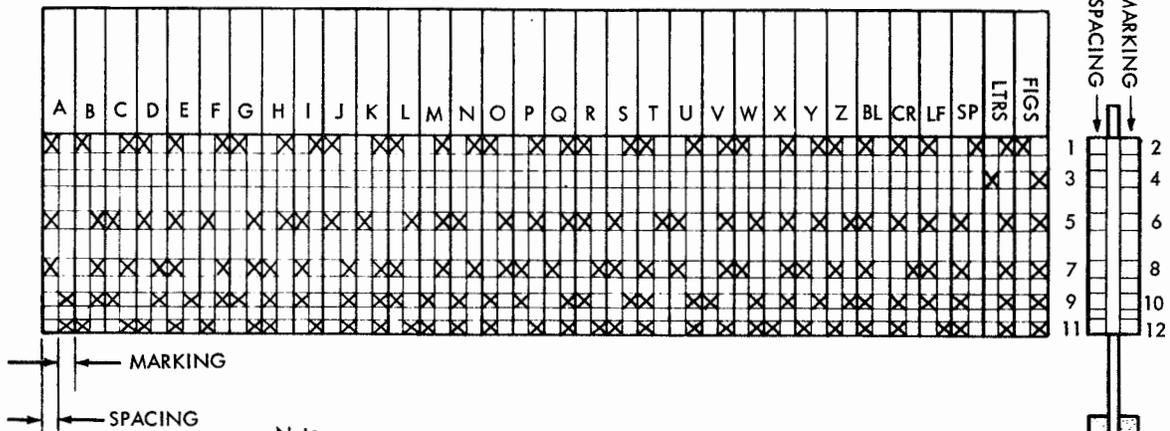


FIGURE 42. EARLY DESIGN MAIN SHAFT MECHANISMS

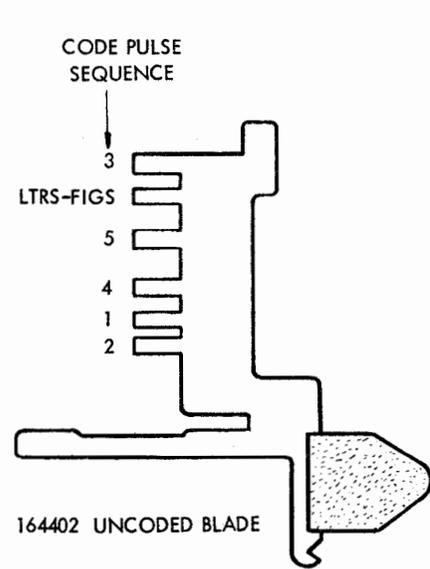
⊗ indicates tines that are left after the blade has been coded.



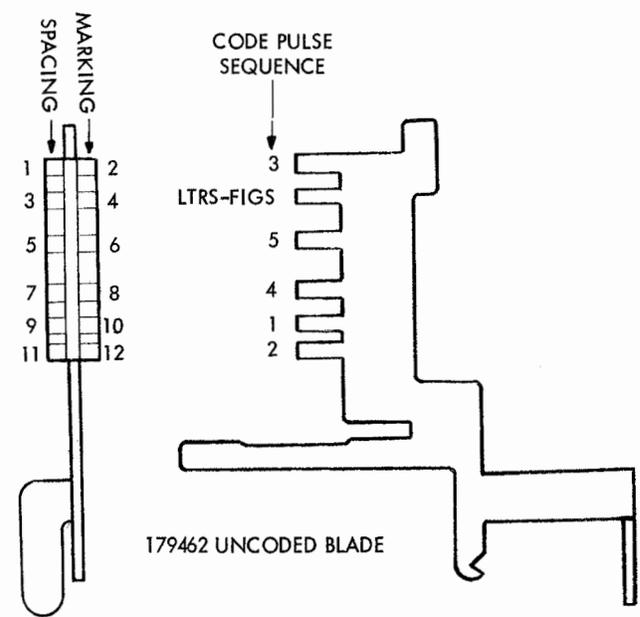
Note:

In addition to removing the tines for a desired character, the LTRS-FIGS shift tines should also be coded according to the following:

- (1) To respond only in the FIGS position, remove tine 3.
- (2) To respond only in the LTRS position, remove tine 4.
- (3) To respond in FIGS and LTRS position, remove tines 3 and 4.

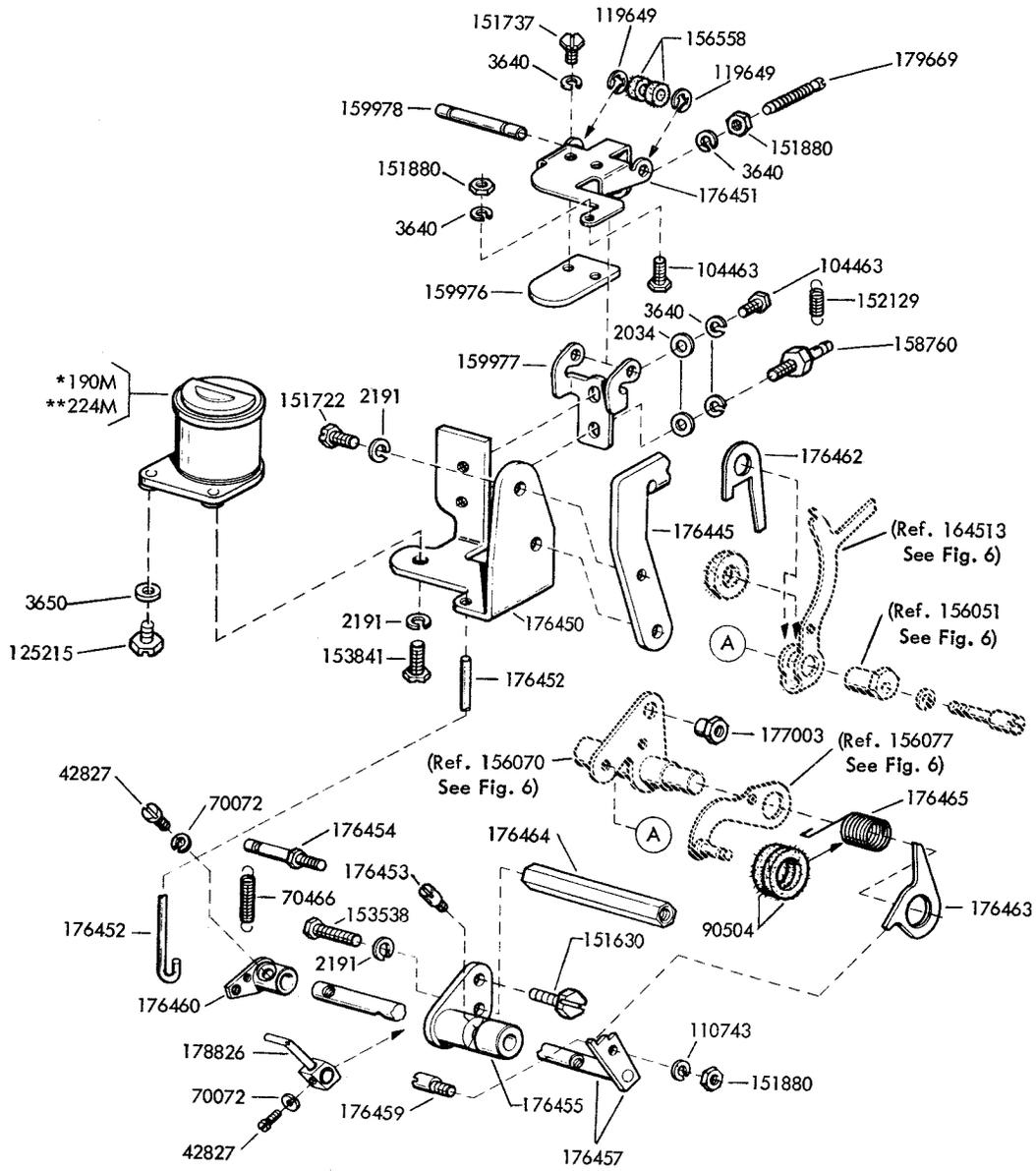


164402 UNCODED BLADE



179462 UNCODED BLADE

FIGURE 45. UNCODED FUNCTION BLADES



*Peculiar to 173961
 **Peculiar to 179133

173961 - Specification 500585
 179133 - Specification 500585

(Also includes parts on Figure 47)

FIGURE 46. 173961 AND 179133 MODIFICATION KITS TO PROVIDE BLANK DELETE FOR TYPING REPERFORATOR

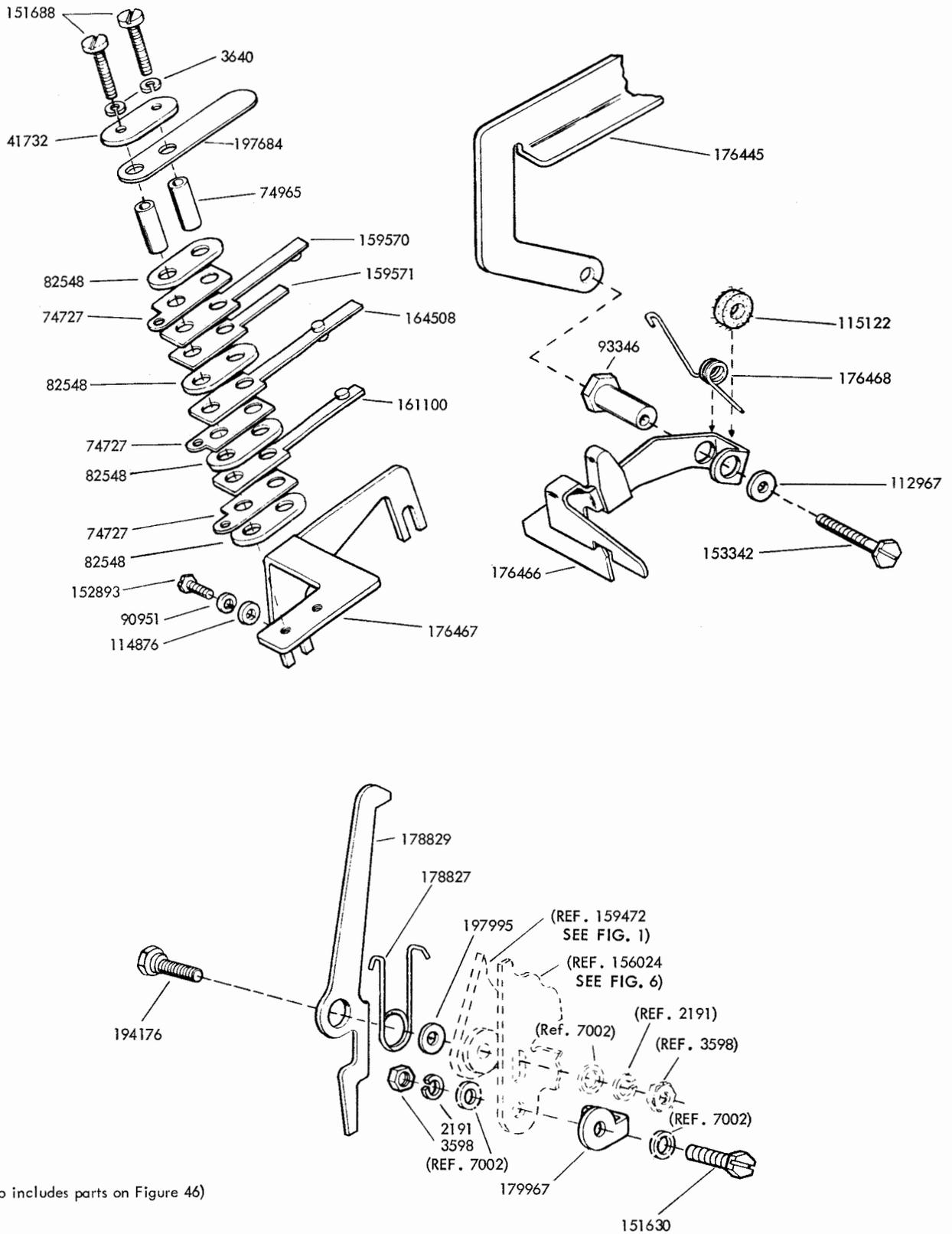


FIGURE 47. 173961 AND 179133 MODIFICATION KITS TO PROVIDE BLANK DELETE FOR TYPING REPERFORATOR

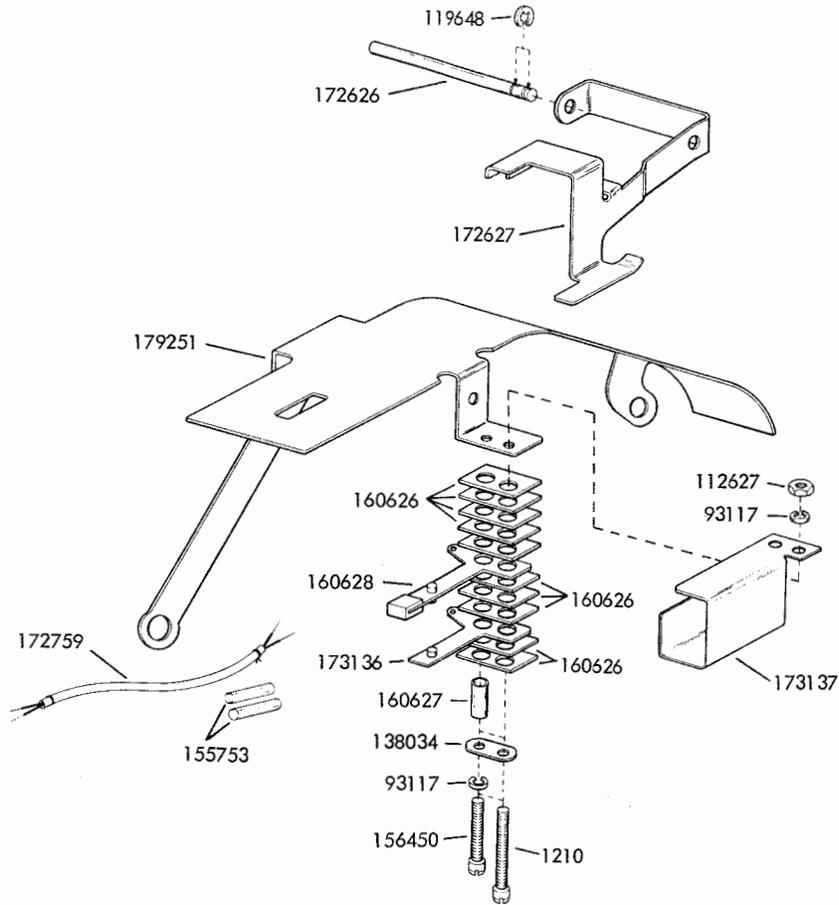


FIGURE 48. 173135 TAPE ABSENT CONTACT BRACKET ASSEMBLY

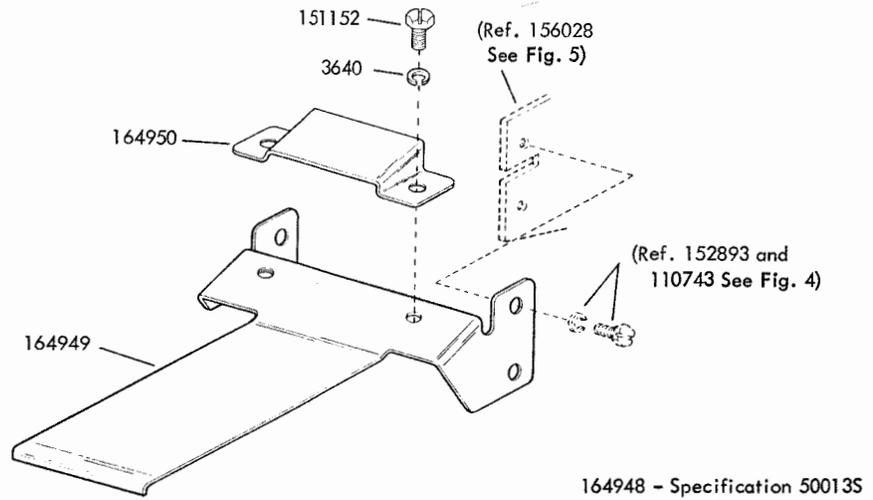
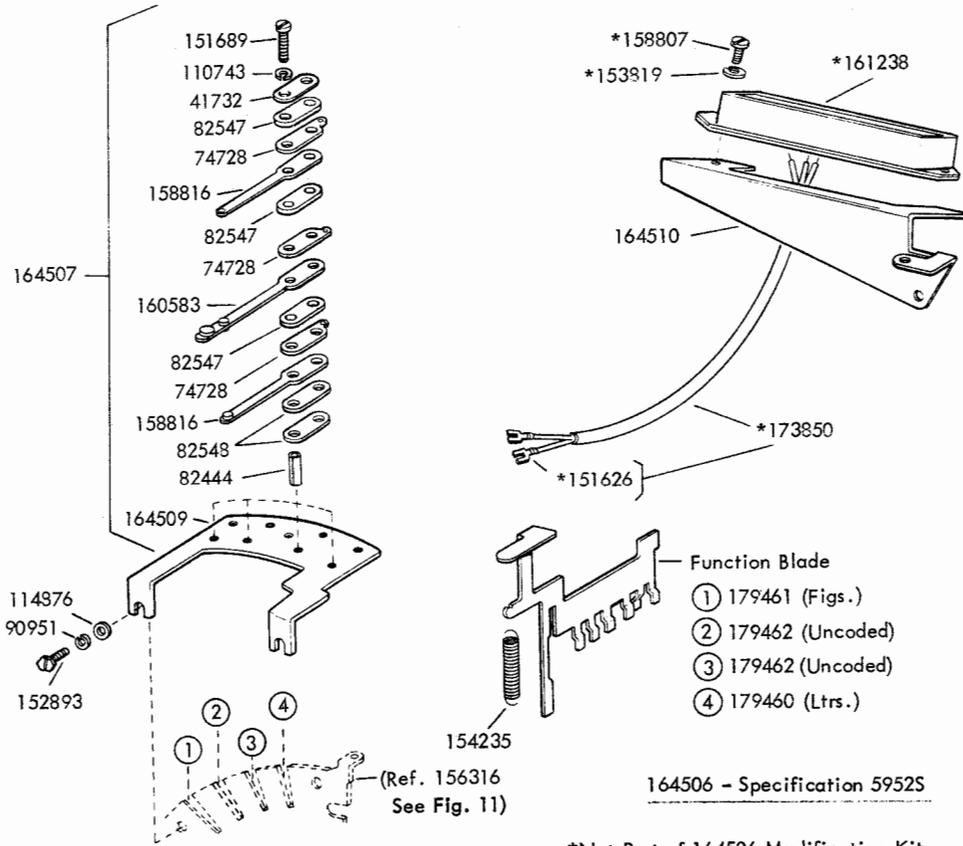


FIGURE 49. 164948 MODIFICATION KIT TO EQUIP REPERFORATOR WITH COMBINATION TAPE CHUTE AND KNIFE TEARING EDGE WHEN MOUNTED IN A UNIVERSAL CABINET



164506 - Specification 59525

*Not Part of 164506 Modification Kit

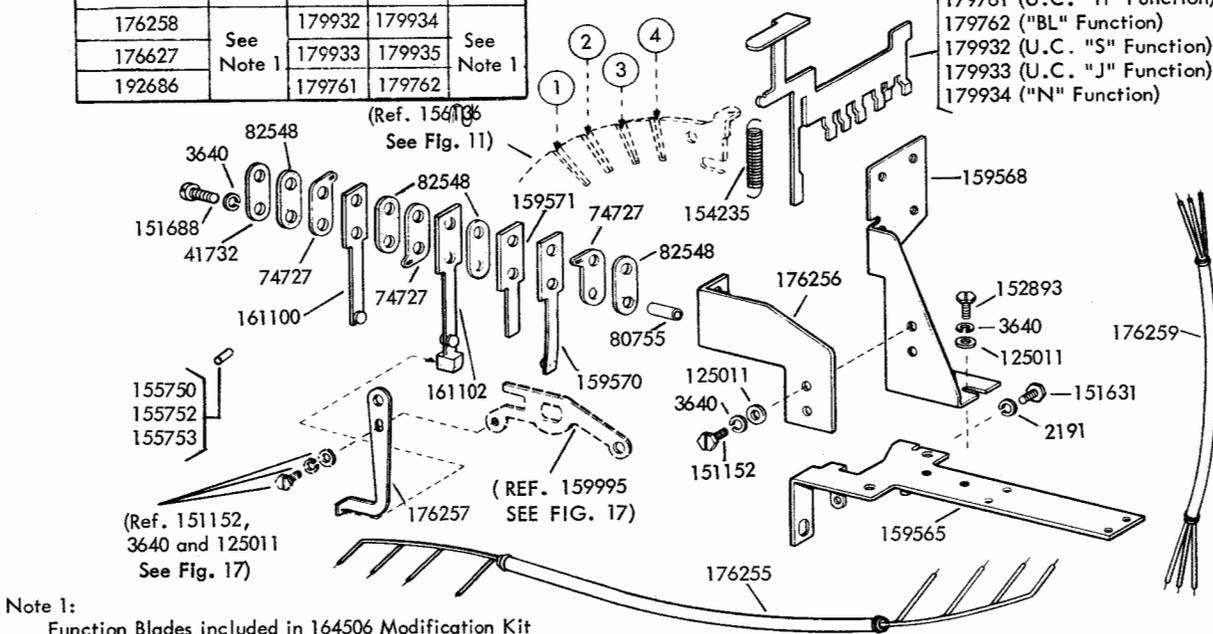
FIGURE 50. 164506 MODIFICATION KIT TO ADD MULTIPLE MOUNTED FUNCTION BLADE OPERATED CONTACTS

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

176258 - Specification 501115
 176627 - Specification 501115
 192686 - Specification 501115

Function Blade

- 179761 (U.C. "H" Function)
- 179762 ("BL" Function)
- 179932 (U.C. "S" Function)
- 179933 (U.C. "J" Function)
- 179934 ("N" Function)



Note 1:
 Function Blades included in 164506 Modification Kit

FIGURE 51. MODIFICATION KITS TO EQUIP A REPERFORATOR WITH AN AUXILIARY CONTACT ASSEMBLY AND FUNCTION BLADES

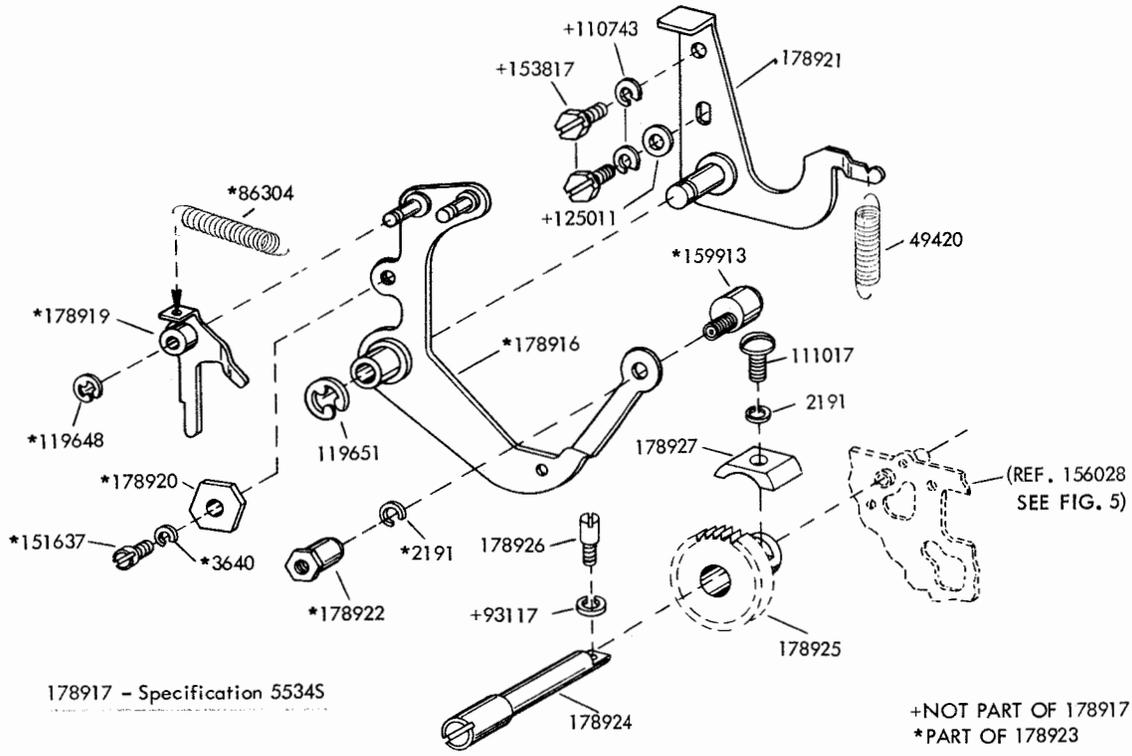


FIGURE 52. 178917 MODIFICATION KIT TO PROVIDE BACKSPACE MECHANISM FOR FULLY PERFORATED TAPE AND PRINTING BETWEEN FEED HOLES

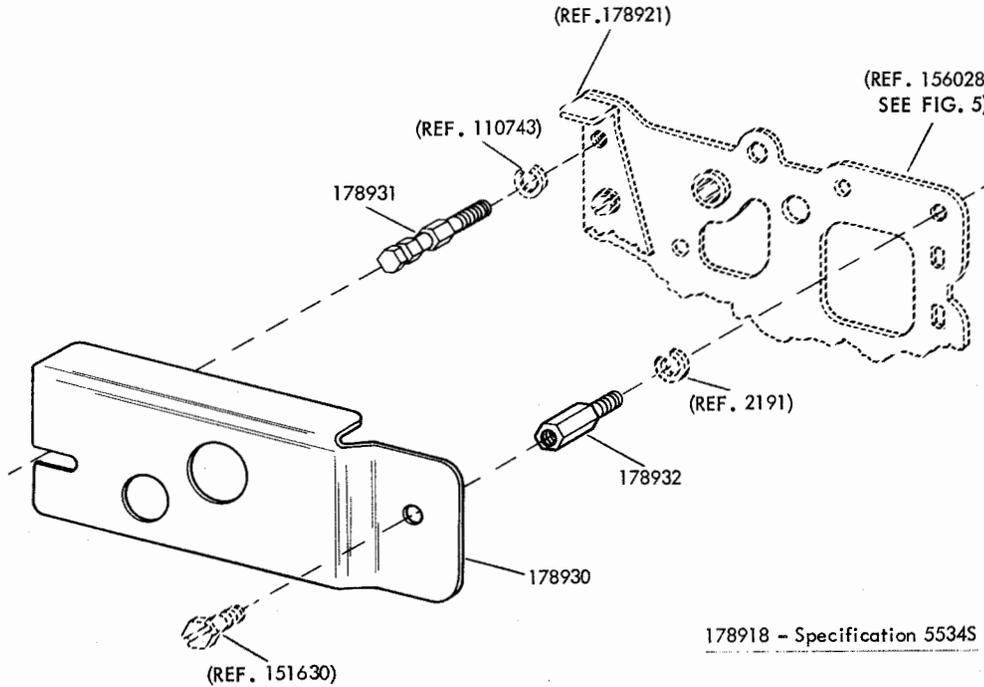


FIGURE 53. 178918 MODIFICATION KIT TO PROVIDE GUARD FOR BACKSPACE MECHANISM (FULLY PERFORATED TAPE, PRINTING BETWEEN FEED HOLES)

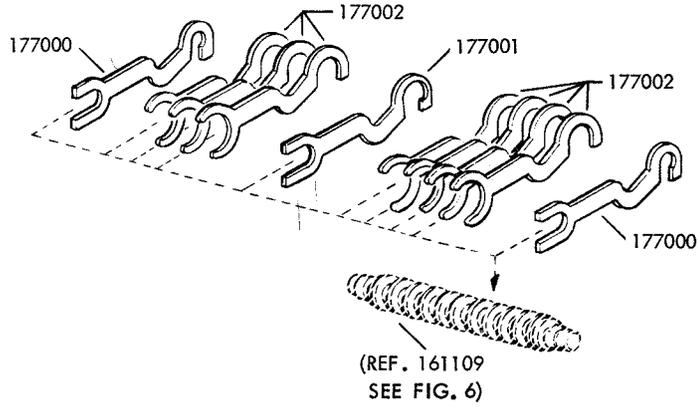
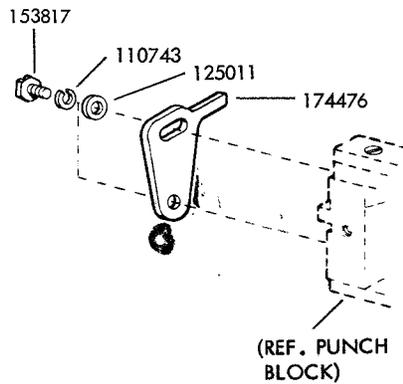


FIGURE 54. 179275 MODIFICATION KIT TO PROVIDE POSITIVE ENGAGEMENT OF PUNCH SLIDES WITH THE LATCH LEVERS



174475 - Specification 50034S

FIGURE 55. 174475 MODIFICATION KIT TO PROVIDE PRINT SUPPRESSION ON FUNCTIONS

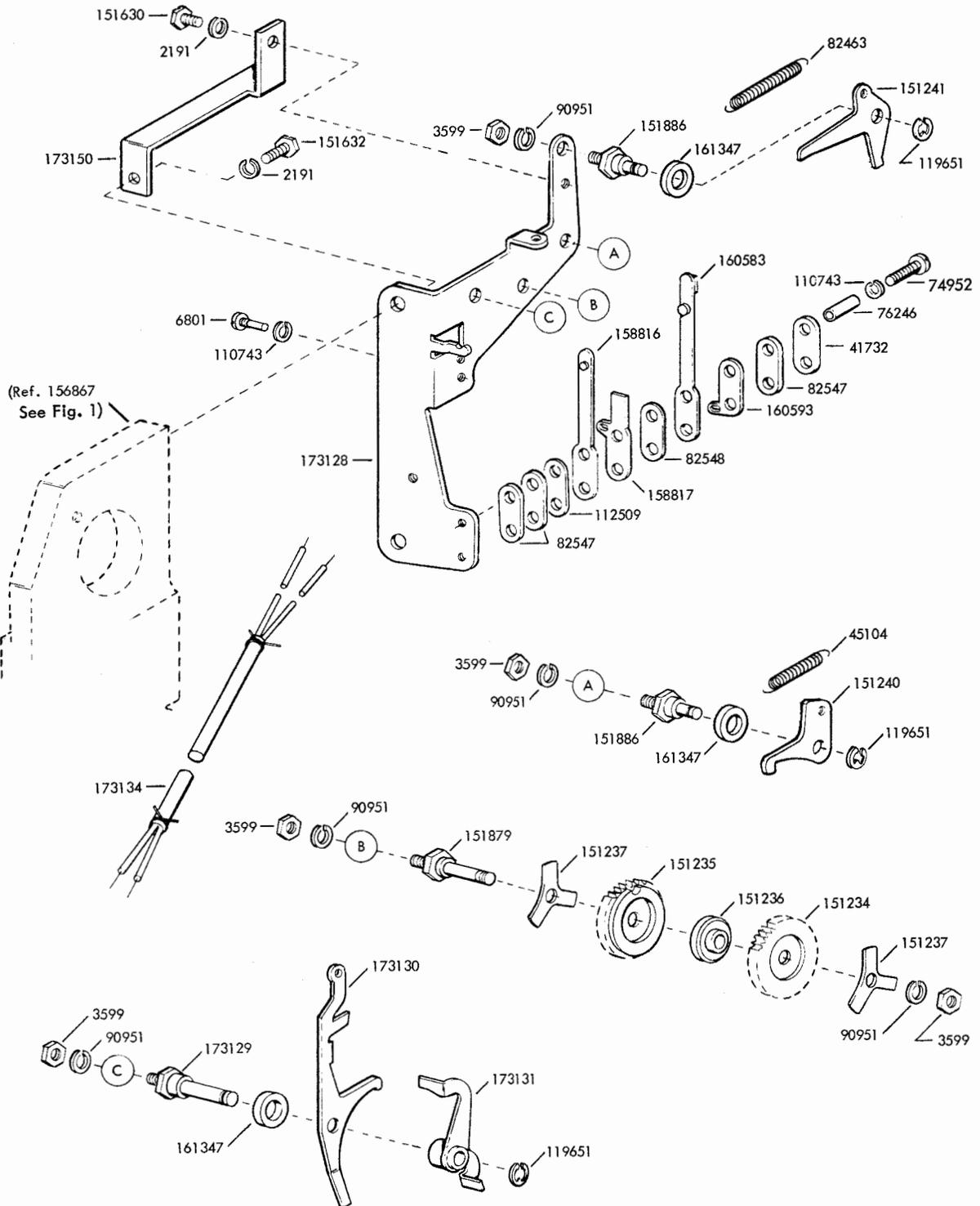


FIGURE 56. MOTOR CONTROL MECHANISM

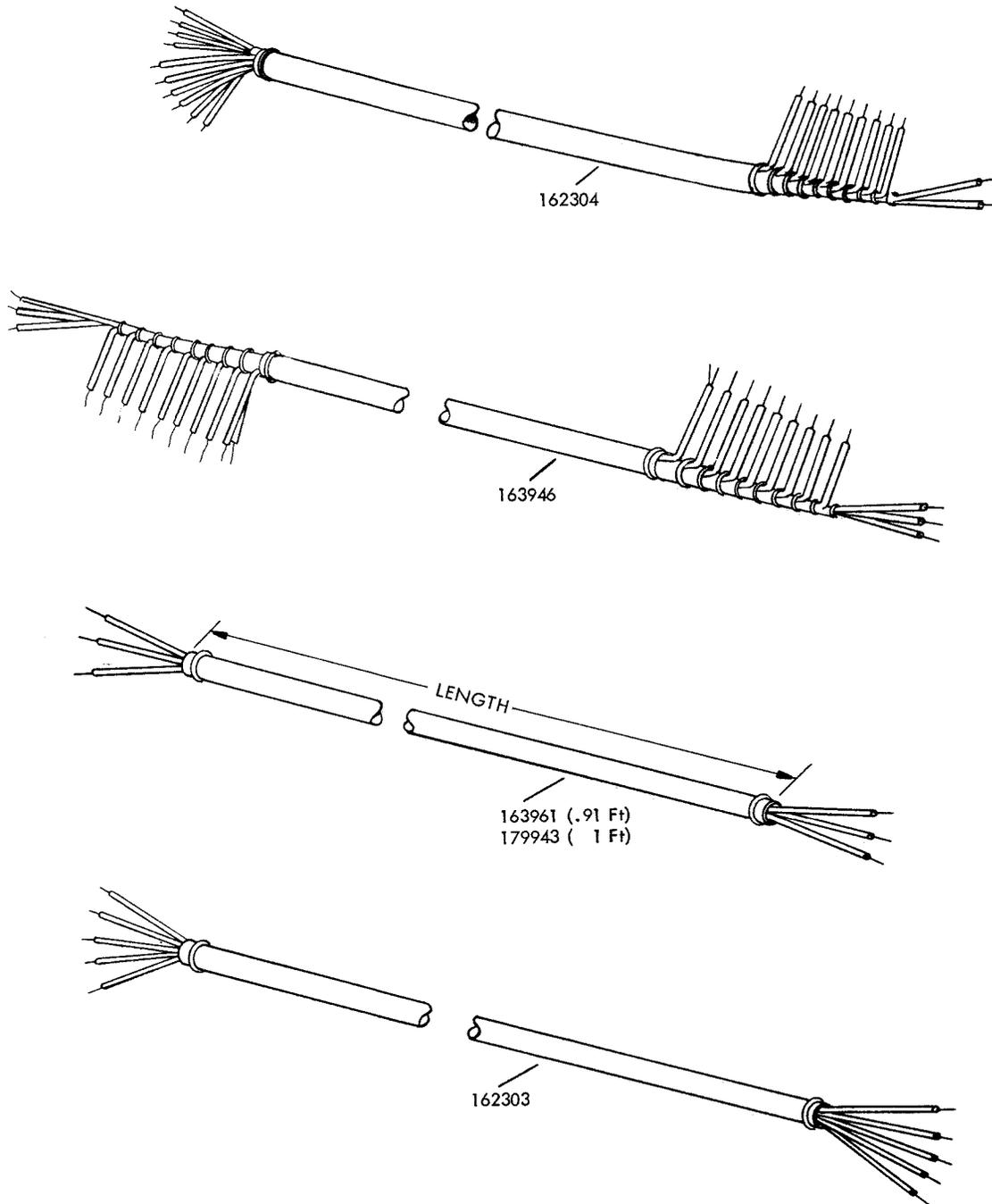
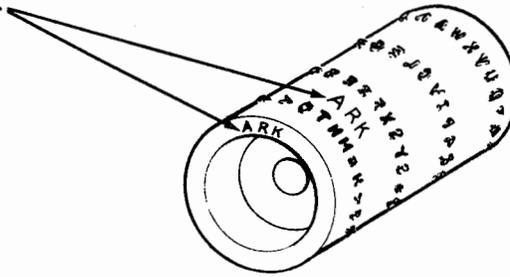


FIGURE 57. CODE READING CONTACT CABLES

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 CODE CHART							
Code	Part Number	Matching Arrangements		Code	Part Number	Matching Arrangements	
		Typebox	Keypad			Typebox	Keypad
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						
AWU	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						

Note:
Typewheels not appearing on this page may be ordered by Code letters.

FIGURE 58. TYPEWHEEL CHART

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
190M	Coil, Magnet 35, 44	70072	Washer, Lock 44	94712	Spacer 10
224M	Coil, Magnet 29, 35, 44	70466	Spring 44	95378	Spring 19
252M	Coil, Magnet 22	70878	Spring 28, 29	96717	Screw, Shoulder (4-40) 4, 15, 31
254M	Coil, Magnet 16	71437	Washer, Flat 8	97266	Plate, Contact 10
1020	Screw (6-40 x 1/4 Hex) 6	71681	Spool, Ribbon 18, 42	97516	Bushing 42
1036	Nut (6-40 Hex) 7	72522	Wick, Felt 7	98004	Screw (2-56 x 11/16 Hex) 22
1210	Screw (2-56 x 5/8 Fil) 46	73175	Washer, Lock 20, 33	100994	Nut (2-56 Hex) 22
1256	Screw, Set (6-40) 20	73611	Wick, Felt 23	101123	Washer, Felt 11
2034	Washer, Flat 15, 29, 32, 34, 36, 44	74283	Washer, Spring 14	101796	Washer, Felt 33
2191	Washer, Lock 3 To 23, 25, 26, 27, 28, 29, 31, 32, 33, 35, 36, 38, 39, 40, 42, 44, 45, 47, 48, 50	74553	Wick, Felt 10	102028	Post, Spring 21
2199	Nut (7/16-32 Hex) 10	74727	Terminal, Contact 23, 45, 47	103078	Plate 39
2407	Washer, Lock 10	74728	Terminal, Contact 22, 47	104463	Screw (4-40 x 1/4 Hex) 44
2438	Washer, Flat 16	74952	Screw (4-40 x 5/8 Fil) 50	104824	Spring 16
2481	Washer, Flat 23, 39	74965	Bushing, Insulating 45	108943	Bushing 25
2539	Nut (3/8-32 Hex) 20, 33	76246	Bushing, Insulating 50	109356	Washer, Flat 31
2669	Washer, Lock 4, 14	76422	Spring 34	110434	Screw (4-40 x 3/16 Fil) 3, 14, 15
3598	Nut (6-40 Hex) 3, 4, 6, 7, 8, 10, 11, 14, 15, 18, 19, 21, 22, 26, 27, 29, 31, 32, 35, 36, 39, 45	78533	Spring 15, 32, 35	110435	Nut (4-40 Hex) 31
3599	Nut (4-40 Hex) 6, 7, 9, 11, 12, 15, 16, 17, 20, 29, 32, 35, 50	80334	Terminal, Contact 38, 39	110437	Spring 13
3606	Nut (6-40 Hex) 4, 19, 27	80531	Washer, Flat 42	110743	Washer, Lock 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, 22, 23, 25, 27, 28, 29, 32, 34, 35, 38, 41, 42, 44, 47, 48, 49, 50
3624	Washer, Flat 22	80755	Bushing, Insulating 22, 23, 31, 38, 47	110879	Spring 9, 12, 19
3640	Washer, Lock 3, 4, 5, 9, 10, 11, 13, 19, 20, 21, 22, 23, 29, 31, 32, 33, 35, 36, 37, 44, 45, 46, 47, 48	80833	Guard, Contact Spring 25	111017	Screw (6-40 x 5/16 Fil) 19, 48
3646	Washer, Lock 26	81726	Terminal 25, 31	111767	Washer, Flat 21
3650	Washer, Flat 29, 44	81731	Spring 42	111777	Connector, Receptacle (4 Pt) 24
3870	Spring 19	81778	Screw (4-40 x 3/16 Fil) 16	112509	Insulator (.031") 50
4703	Spring 32, 35	82392	Shim (.004") 4	112626	Nut (10-32 Hex) 10, 14
4812	Wick, Felt 34	82444	Bushing, Insulating 47	112627	Nut (2-56 Hex) 46
5363	Spring 7	82463	Spring 20, 32, 35, 50	112634	Spring 13
5425	Shim (.010") 21	82474	Terminal 29	112636	Spring, Feed Pawl 21
6801	Screw, Pilot (4-40) 50	82547	Insulator (.094") 22, 24, 25, 30, 31, 38, 39, 47, 50	112967	Washer, Flat 27, 45
7002	Washer, Flat 3, 4, 6, 7, 9, 10, 11, 13, 15, 17, 19, 21, 22, 23, 26, 29, 32, 33, 35, 38, 39	82548	Insulator (.062") 22, 23, 25, 31, 38, 39, 45, 47, 50	113039	Post, Spring 36
7603	Spring 32, 35	84226	Spring 32, 35, 42	114876	Washer, Flat 13, 25, 45, 47
7655	Spring 31, 34, 36, 39	84575	Spring 29	115122	Washer, Felt 10, 45
7835	Ribbon W/Spool (Black) 18, 42	84892	Stiffener 39	115134	Washer, Felt 11
8330	Washer, Flat 3, 4, 6, 7, 8, 12, 14, 15, 18, 19, 20, 25, 26, 29, 33, 36, 42	85823	Spacer 18, 42	119467	Insulator (.032") 22
22746	Spring 10, 20	86079	Washer, Felt 11, 32	119647	Ring, Retaining 7, 21
31636	Spring 21	86283	Spring 18	119648	Ring, Retaining 7, 14, 28, 29, 34, 36, 39, 41, 46, 48
33765	Washer, Flat 28	86304	Spring 27, 28, 48	119649	Ring, Retaining 7, 10, 11, 13, 18, 21, 22, 23, 29, 32, 33, 35, 36, 42, 44
41382	Spring 7, 14	86506	Post, Spring 3	119650	Ring, Retaining 8, 18, 19, 42
41543	Bearing, Ball 27	86714	Washer, Flat 42	119651	Ring, Retaining 3, 10, 12, 13, 19, 21, 22, 28, 29, 32, 36, 38, 42, 48, 50
41732	Plate, Clamp 22, 23, 25, 31, 38, 45, 47, 50	86774	Screw, Shoulder (6-40) 11, 26	119652	Ring, Retaining 3, 4, 7, 8, 14, 18, 21, 32, 35, 36
42823	Washer, Flat 3, 5, 21	86873	Spring 33, 36	119653	Ring, Retaining 10, 18, 21, 42
42827	Screw (3-48 x 1/4 Fil) 44	87401	Spring 3	119655	Ring, Retaining 33
45024	Spring 26	90052	Screw (4-40 x 5/8 Hex) 17	119656	Ring, Retaining 20, 33
45104	Spring 32, 35, 50	90361	Washer, Felt 8	121100	Spring 13
45963	Spring 21, 33	90504	Washer, Felt 44	121125	Washer, Spring 22
47024	Washer, Flat 11	90535	Washer, Felt 12, 13	121242	Clamp, Cable (1/8" ID) 15
49084	Spring 3, 23	90560	Washer, Flat 28	121243	Clamp, Cable (3/16" ID) 15, 30
49420	Spring 48	90573	Spring 4	121245	Clamp, Cable (5/16" ID) 15, 30
55063	Spring 28, 29, 41	90599	Shim (.008") 11	121246	Clamp, Cable (3/8" ID) 15, 30
55090	Spring 21	90606	Spring 3, 18	121538	Terminal 16
55669	Spring 36	90615	Spring 19	121551	Screw (8-32 x 1/4 Hex) 26
		90789	Washer, Flat 15	122149	Screw (4-40 Spl) 28
		90790	Washer, Flat 29	122292	Bushing 39
		90791	Washer, Lock 7	124177	Washer, Lock 4, 6, 14, 15, 19
		90951	Washer, Lock 13, 25, 39, 45, 47, 50	125011	Washer, Flat 3, 6, 9, 11, 12, 13, 14, 18, 19, 21, 22, 23, 28, 32, 33, 34, 35, 36, 37, 47, 48, 49
		91120	Spring 7		
		92260	Washer, Lock 19		
		93108	Washer, Lock 27		
		93117	Washer, Lock 46, 48		
		93118	Washer, Lock 22		
		93346	Bushing, Eccentric 45		
		93356	Washer, Felt 3, 7		
		94669	Screw, Shoulder (4-40) 7		

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125015	Washer, Flat 4, 8, 9, 16, 19, 39	151629	Nut (6-40 Spl) 3, 8, 10, 20, 26, 33, 36	152429	Rack, Sector 14
125215	Screw (4-40 x 3/16 Hex) 29, 35, 44	151630	Screw (6-40 x 1/4 Hex) 3, 7, 9, 10, 12, 15, 18, 19, 20, 22, 23, 26, 27, 31, 33, 37, 39, 44, 45, 50	152432	Arm, Stop 14
125231	Nut (10-32 Hex) 4	151631	Screw (6-40 x 5/16 Hex) 3, 4, 6, 7, 9, 13, 16, 17, 19, 21, 22, 27, 47	152436	Knob, Range Scale 14
125268	Spring 20, 22	151632	Screw (6-40 x 3/8 Hex) 4, 5, 6, 15, 17, 22, 23, 27, 29, 32, 33, 35, 40, 50	152438	Bail, Stop Arm 14
125802	Washer, Flat 20, 42	151637	Screw (4-40 x 1/4 Fil) 6, 18, 32, 35, 48	152441	Washer, Flat 14
128357	Ring, Retaining 8, 13	151640	Lever, Clutch Shoe 3	152445	Spring 14
130330	Washer, Felt 11	151642	Screw (6-40 x 3/4 Fil) 33	152457	Wick, Felt 15
130696	Washer, Felt 12	151657	Screw (6-40 x 1/4 Fil) 4, 14, 15	152458	Shield, Terminal 16
131016	Washer, Felt 11	151658	Screw (6-40 x 5/16 Fil) 3, 4, 27, 33	152634	Washer, Flat 8
135716	Spring 3	151659	Screw (6-40 x 1/2 Fil) 33	152887	Screw (4-40 x 1/2 Hex) 17
135901	Washer, Cup 10	151685	Screw (4-40 x 5/16 Fil) 33	152891	Spring 15
138034	Plate, Clamp 46	151686	Screw (4-40 x 3/8 Fil) 16	152893	Screw (4-40 x 1/4 Hex) 3, 4, 6, 7, 8, 10, 13, 15, 20, 22, 23, 25, 29, 32, 35, 36, 45, 47
139697	Screw (4-40 x 9/32 Fil) 27	151688	Screw (4-40 x 5/8 Fil) 16, 23, 25, 32, 35, 45, 47	153184	Post 16
139752	Screw (4-40 x 11/64 Fil) 3	151689	Screw (4-40 x 3/4 Fil) 31, 47	153267	Washer, Felt 39, 41
144793	Spacer 7	151690	Screw (10-32 x 5/16 Fil) 5, 27	153342	Screw (6-40 x 15/16 Hex) 45
144794	Spring, Torsion 7	151692	Screw (6-40 x 3/16 Fil) 19	153489	Detent 14
144795	Plate, Rear 6	151693	Screw (6-40 x 9/16 Fil) 3	153538	Screw (6-40 x 7/16 Hex) 15, 39, 44
144796	Plate, Front 7	151700	Screw, Shoulder (6-40) 12	153543	Armature, Selector 16
144797	Shaft, Feed Wheel 7	151701	Spring, Torsion 15	153799	Screw (4-40 x 21/64 Hex) 20, 33
144998	Post 7	151714	Spring 15	153817	Screw (4-40 x 3/8 Hex) 28, 32, 35, 48, 49
144999	Shoe, Tape 7	151715	Spring 16	153819	Washer, Lock 47
145353	Wheel, Pressure 7	151721	Screw (6-40 x 3/4 Hex) 29, 39	153839	Screw (6-40 x 5/8 Hex) 3, 8, 10, 15, 20, 23, 26, 30, 33, 36
145356	Wheel, Feed 7	151722	Screw (6-40 x 3/16 Hex) 6, 26, 29, 35, 39, 42, 44	153841	Screw (6-40 x 9/16 Hex) 18, 42, 44
145357	Guide, Tape 7	151728	Spring 3, 5	154235	Spring 13, 25, 47
145358	Bracket, Tape Guide 6	151731	Screw (4-40 x 7/8 Fil) 31	154242	Screw (6-40 x 5/16 Hex) 4
150000	Drum, Clutch 5	151733	Screw (4-40 x 9/16 Fil) 22, 38	154244	Nut, Shoulder (6-40) 11
150001	Drum, Clutch 3	151736	Spring 27	154245	Spring, Contact 25
150013	Disk, Adjusting 3, 5	151737	Screw (4-40 x 11/64 Hex) 3, 5, 8, 21, 22, 23, 27, 29, 35, 42, 44	154246	Bracket, Contact 25
150026	Lever, Shoe Release 5	151848	Lock 21	154247	Contact Assembly 25
150029	Wick, Felt 3, 5	151879	Stud 50	154325	Modification Kit 18
150040	Screw (6-40 x 5/8 Fil) 5	151880	Nut (4-40 Hex) 17, 21, 31, 42, 44	154335	Screw (6-40 x 9/32 Fil) 27
150043	Shoe, Secondary Clutch 3, 5	151886	Stud 50	154352	Spring 37
150044	Shoe, Primary Clutch 3, 5	152129	Spring 44	154396	Cam W/Pin 5
150048	Spring 3, 15	152400	Plate, Selector Mounting 15	154397	Shaft W/Bearing 5
150089	Screw (4-40 x 1/2 Fil) 16	152401	Guide 15	154398	Bearing, Needle 5
150241	Spring 3, 5	152402	Guide, Selector Lever 15	154620	Wick, Leather 15
150327	Roller, Ribbon 18, 42	152403	Bracket, Guide 15	154621	Retainer, Wick 15
150355	Lever, Latch 3	152404	Bracket, Spring 15	154622	Lubricator 15
150356	Lever, Trip 3	152405	Lever, Marking Lock 15	154694	Disk, Clutch Cam 3, 5
150411	Washer, Flat 3	152406	Bracket, Spring 15	155096	Plate, Range Finder Mounting 14
150507	Spring 18, 21	152407	Lever, Spacing Lock 15	155750	Sleeve, Insulating (3/32 ID x 1/2" Lg) 22, 23, 24, 25, 26, 29, 31, 38, 47
150687	Stud 15	152409	Lever, Selecting 15	155751	Sleeve, Insulating (1/8 ID x 1" Lg) 22, 24, 30
150923	Washer, Felt 8	152410	Bail, Reset 15	155752	Sleeve, Insulating (5/64 ID x 1/2" Lg) 23, 25, 30, 31, 38, 47
150990	Washer, Felt 9	152411	Lever, Push 15	155753	Sleeve, Insulating (1/8 ID x 1/2" Lg) 25, 30, 46, 47
151073	Screw (4-40 x 5/32 Fil) 3, 8, 23, 28, 41	152412	Link 15	155995	Screw, Shoulder (6-40) 27
151103	Spring 15	152415	Stud, Adjusting 16, 27	156008	Wheel, Feed 41
151152	Screw (4-40 x 3/16 Hex) 3, 11, 13, 17, 19, 21, 22, 23, 29, 34, 37, 41, 46, 47	152420	Lamination, Magnet 16	156009	Post, Slide 8
151222	Washer, Felt 8	152421	Bracket, Shield Mounting 16	156012	Spring, Punch Block 41
151234	Ratchet (27 T) 50	152423	Bracket, Armature Stop Mounting 16	156013	Screw (4-40 Spl) 8
151235	Ratchet (28 T) 50	152425	Post, Spring 16	156015	Plate, Spring 6
151236	Hub 50	152426	Nut, Self-Locking (6-40) 16	156016	Link, Front Drag 8
151237	Spring, Flat 50	152427	Latch W/Hub 14	156017	Shaft, Eccentric 8
151240	Pawl 50			156019	Washer, Felt 7
151241	Lever, Latching 50			156020	Slide 6
151246	Washer, Flat 4			156024	Plate, Rear 6
151336	Oiler 15, 27				
151346	Screw (6-40 x 3/8 Fil) 27				
151416	Nut (6-40 Hex) 7, 8				
151442	Screw (6-40 x 1/2 Hex) 4, 5, 10, 11, 15, 16, 27, 29, 31, 35, 39				
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156036	Guide, Tape 7	156248	Latch 3	156489	Bushing 10
156040	Post 7	156250	Cam 40	156490	Post, Guide 3
156042	Post 7	156252	Lifter, Function Blade 19	156492	Bracket, Guide 9
156043	Bushing 8	156264	Lever, Detent 9, 12	156493	Stud 11
156044	Stud, Die Wheel 7	156265	Bushing, Shoulder 12	156501	Screw (6-40 x 7/32 Fil) 9, 10
156045	Shaft, Feed Wheel 7	156266	Bushing, Shoulder 9, 12	156515	Washer, Felt 42
156046	Block, Tape Guide 6	156267	Lever, Trip 27	156536	Screw (4-40 x 1/8 Fil) 13, 15
156047	Spring, Torsion 7	156268	Bracket, Spring 13	156558	Washer, Felt 10, 22, 35, 44
156050	Stud, Eccentric 7	156276	Eccentric, Right Rotary 9	156572	Washer, Felt 23
156051	Bushing, Eccentric 8	156277	Eccentric, Left Rotary 9	156576	Washer, Felt 4
156052	Shoe, Tape 7	156278	Eccentric 12	156577	Roller, Detent Lever 7
156054	Lever, Detent 7	156286	Shaft, Right Eccentric 9	156740	Screw (6-40 x 7/32 Hex) 6, 33, 38
156055	Wheel, Die 7	156287	Shaft, Left Eccentric 9		
156057	Washer, Flat 13	156288	Shaft, Axial Eccentric 12	156835	Ring, Retaining 10
156058	Link, Rear 8	156289	Bearing, Left Front 9	156867	Frame, Main 3
156060	Shaft, Eccentric 8	156290	Bearing, Right Front 9	156869	Guide, Ribbon 10
156061	Arm, Tape Shoe 7	156291	Bearing, Rear 9	156870	Lever, Ribbon Oscillating 11
156062	Post, Pivot 7	156292	Housing, Upper Axial 12	156871	Bail, Operating Blade 4
156067	Guide, Slide Post 8	156293	Housing, Lower Axial 12	156872	Blade, Operating 4
156069	Plate 6	156294	Sector, Axial 11	156874	Screw (4-40 x 15/16 Fil) 9, 12
156070	Bail, Toggle 8	156296	Post, Retainer 13	156875	Screw (6-40 x 5/32 Fil) 12
156077	Plate W/Post 8	156300	Shaft 13	156876	Bushing 4
156078	Contact Assembly 23	156306	Rod, Right Connecting 10	156877	Washer, Felt 4
156089	Slide W/Insulator 6	156311	Rod, Left Connecting 10	156880	Jumper (2-3/8" Black) 16
156090	Screw, Adjusting (6-40) 7	156313	Rack, Axial Output 12	156881	Jumper (1-1/2" Black) 16
156093	Washer, Felt 8	156316	Plate, Rear 13	156884	Arm, Rocker 8
156094	Link, Front 8	156318	Lever, Reset 3	156899	Stud, Eccentric 4
156095	Bushing 8	156321	Shaft, Oscillating 11	156900	Roller 4
156099	Link, Rear Drag 8	156322	Link, Axial Toggle 11	156901	Post, Eccentric 18
156103	Strip, Felt 8	156332	Shaft, Typewheel 10	156905	Block, Guide 10
156104	Shaft 41	156366	Shaft, Rocker Bail 4	156908	Post, Sector Pivot 11
156106	Bail 41	156369	Lever W/Post 11	156909	Post, Toggle Link 11
156125	Shaft 20	156378	Plate, Axial Positioning 12	156921	Guide, Adjusting Lever 4
156128	Bushing 20	156382	Roller, Guide 11	156922	Arm, Lock Release 13
156130	Lever 20	156387	Lever, Trip 3	156924	Plate, Drive Link 12
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156136	Bracket, Shaft Mounting 20, 26, 33	156389	Gear (16 T) 10	156929	Bracket 22
		156390	Washer, Flat 10	156931	Bracket 10
156137	Washer, Flat 20, 33	156396	Eccentric 19	156933	Ratchet (36 T) 21
156139	Frame 21	156397	Post 11	156937	Link, Printing Drive 19
156143	Shaft 21	156399	Nut, Shoulder (6-40 Hex) 4	156938	Screw, Eccentric Shoulder (6-40) 19
156146	Spacer 21	156403	Disk, Bearing 4		
156147	Arm, Drive 20	156408	Arm 10	156941	Cam, Selector 3
156152	Shaft 20, 26	156412	Link, Drive 4	156948	Wick, Felt 11
156153	Collar, Eccentric 20	156413	Link, Drive 19	156976	Connector, Plug (32 Pt) 24
156154	Collar 20	156414	Plate, Ribbon Feed Mounting 18	156987	Screw (6-40 Spl) 4
156155	Pawl, Feed 20	156419	Shaft, Left Ribbon Ratchet 18	156988	Race, Outer 4
156156	Pawl, Check 20	156421	Shaft, Right Ribbon Ratchet 18	156989	Roller, Bearing 4
156158	Post, Spring 21	156426	Washer, Spring 18	156991	Pawl, Feed 20
156159	Bracket 23	156427	Disk, Friction 18	156994	Strip, Felt 4
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