

28 TWO-SHAFT TRANSMITTER DISTRIBUTOR (LBXD)

PARTS

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Unit Description	Teletype Code	Bell System Code
Transmitter Distributor	LBXD5	28F
	LBXD7	28G
	LBXD14	28G-1
	LBXD29	28G-2

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

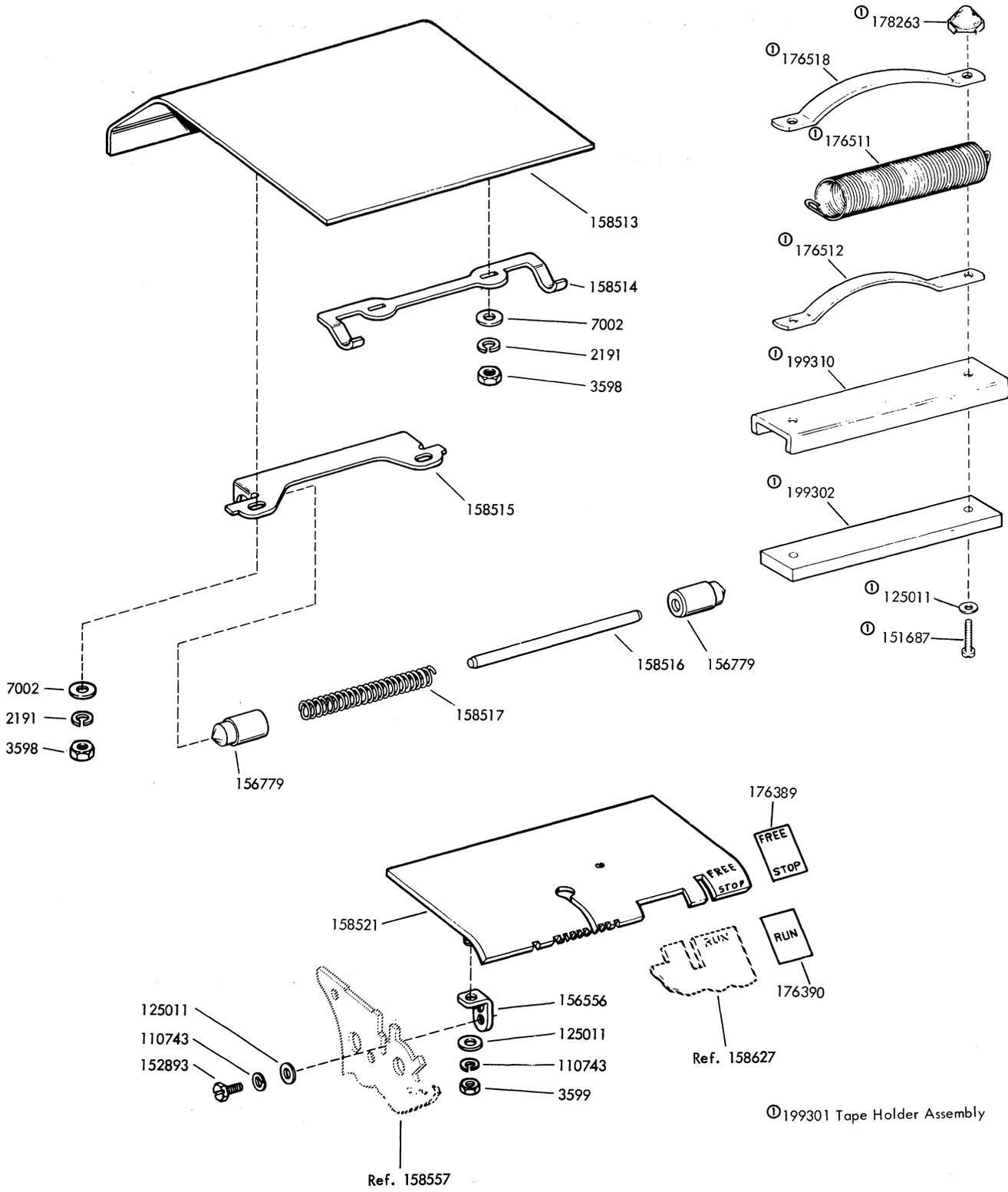


FIGURE 1. COVERPLATE AND TOP PLATE

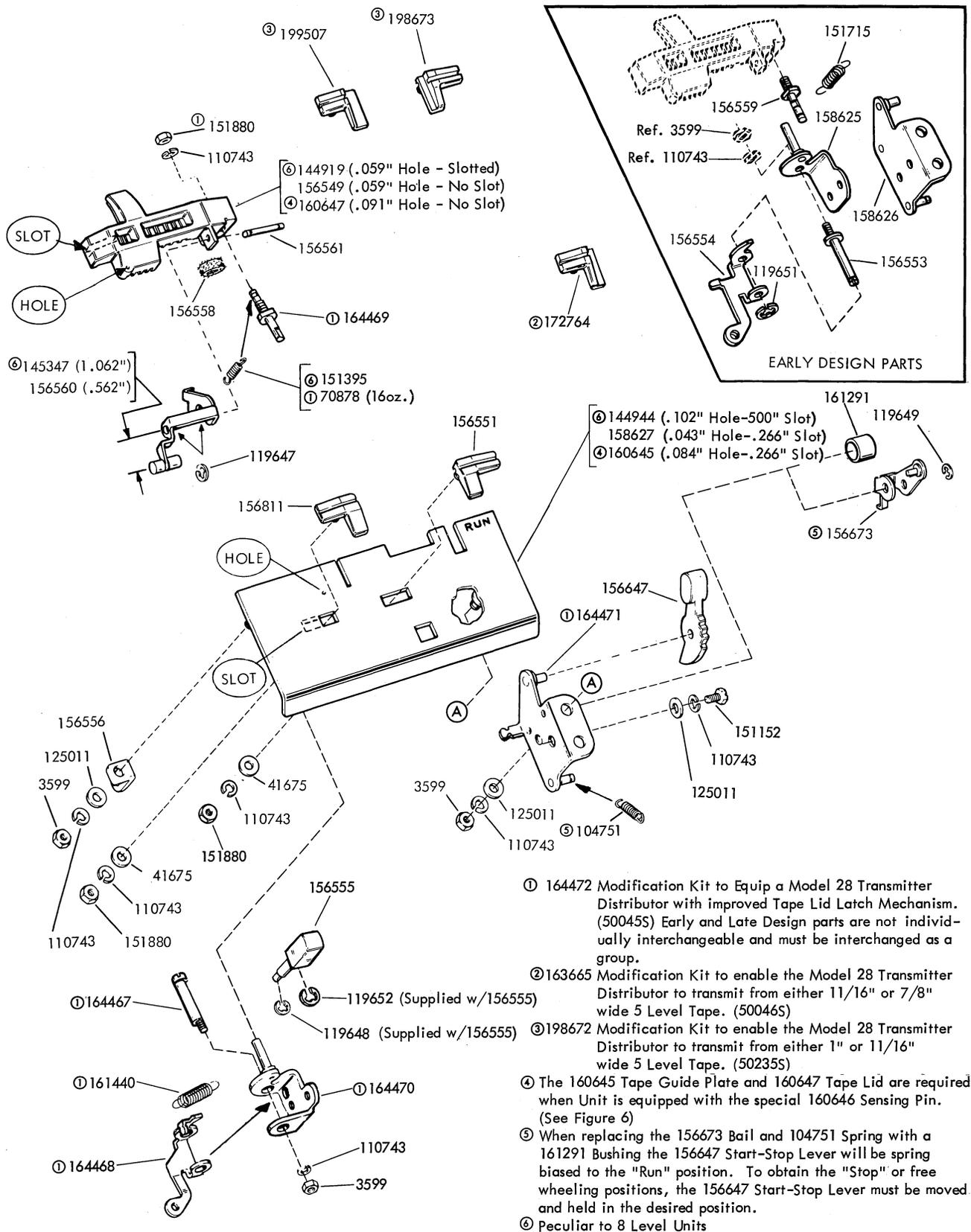
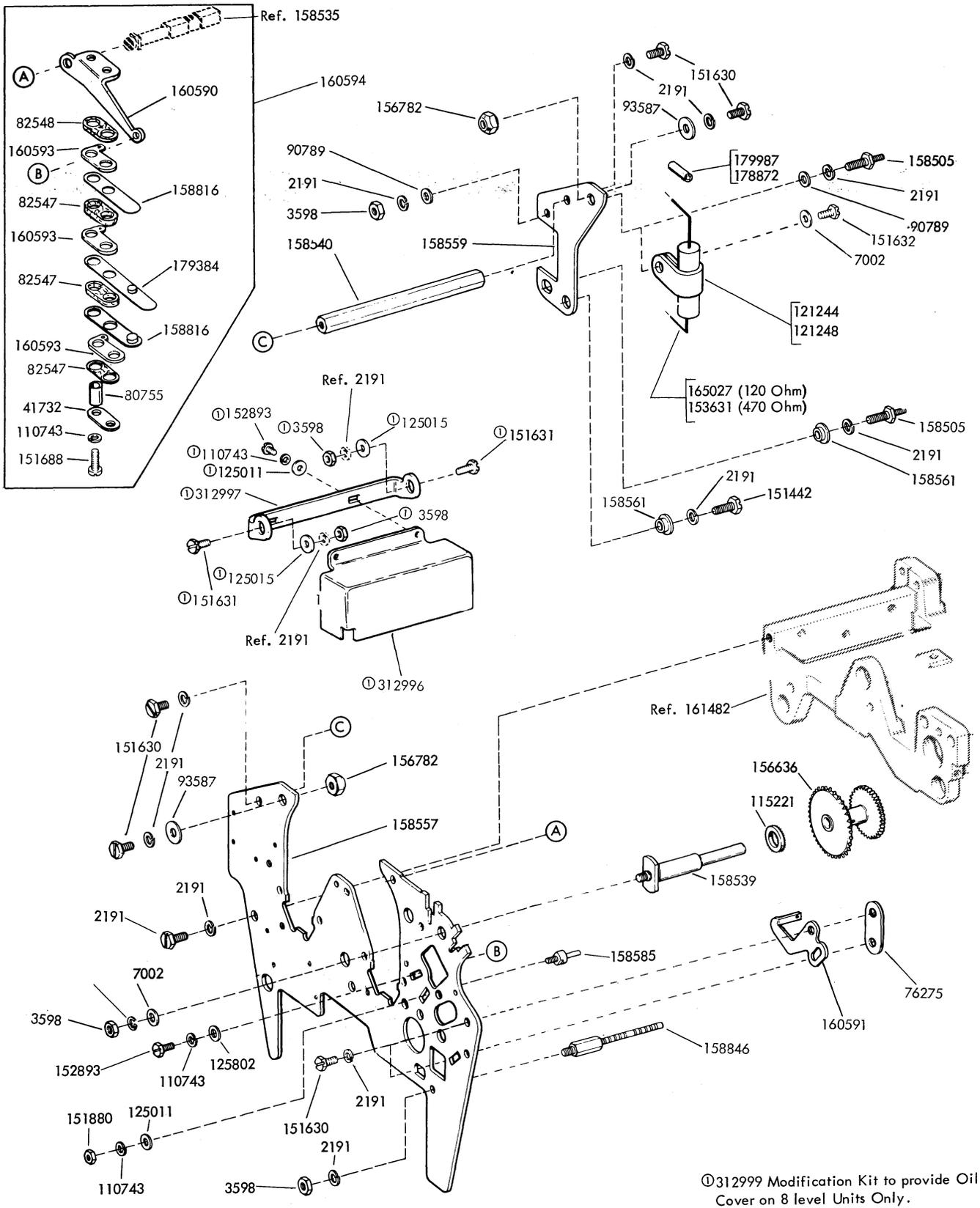


FIGURE 2. TAPE GUIDEPLATE



ⓐ312999 Modification Kit to provide Oil Cover on 8 level Units Only.

FIGURE 3. FRONTPLATE

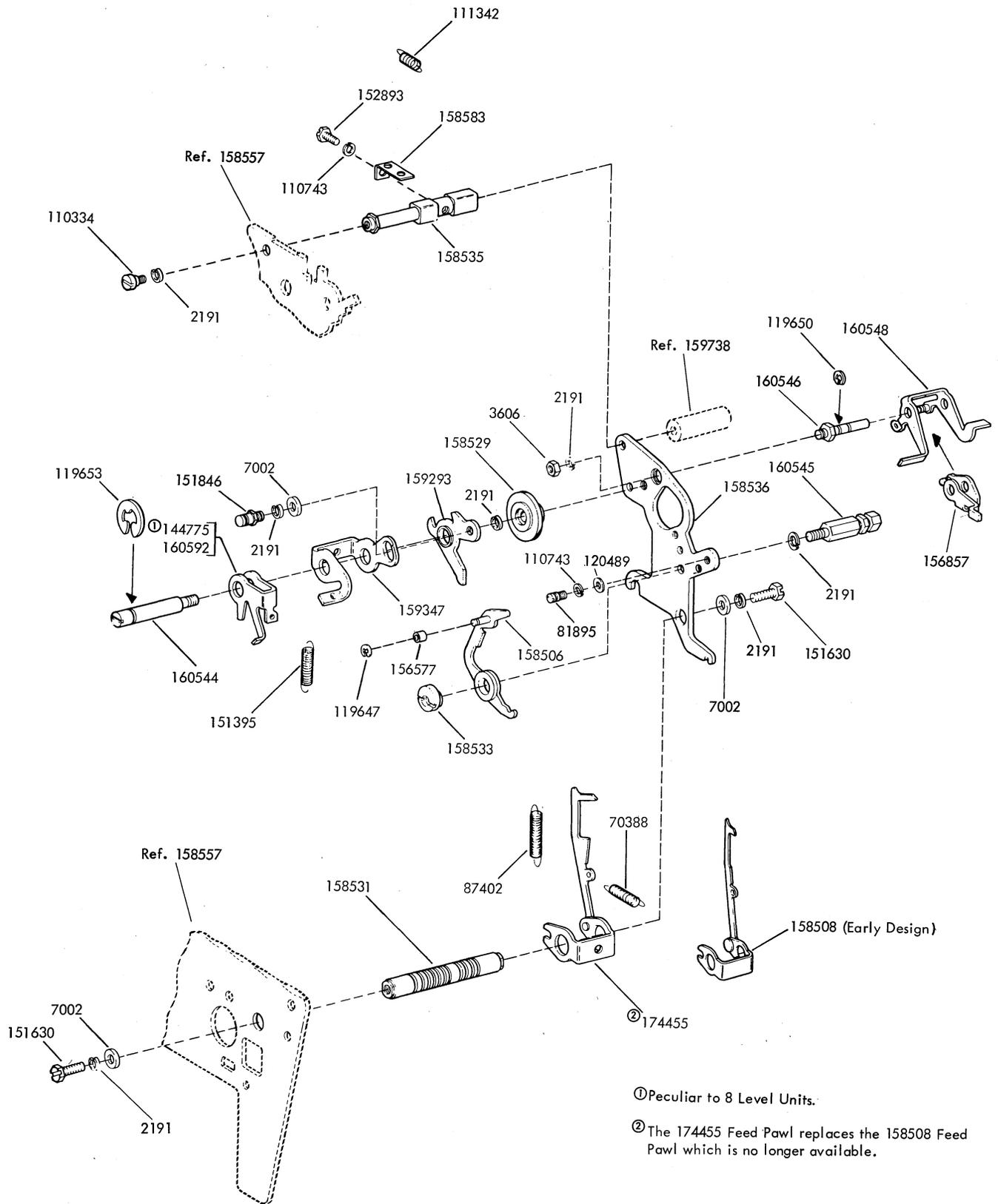
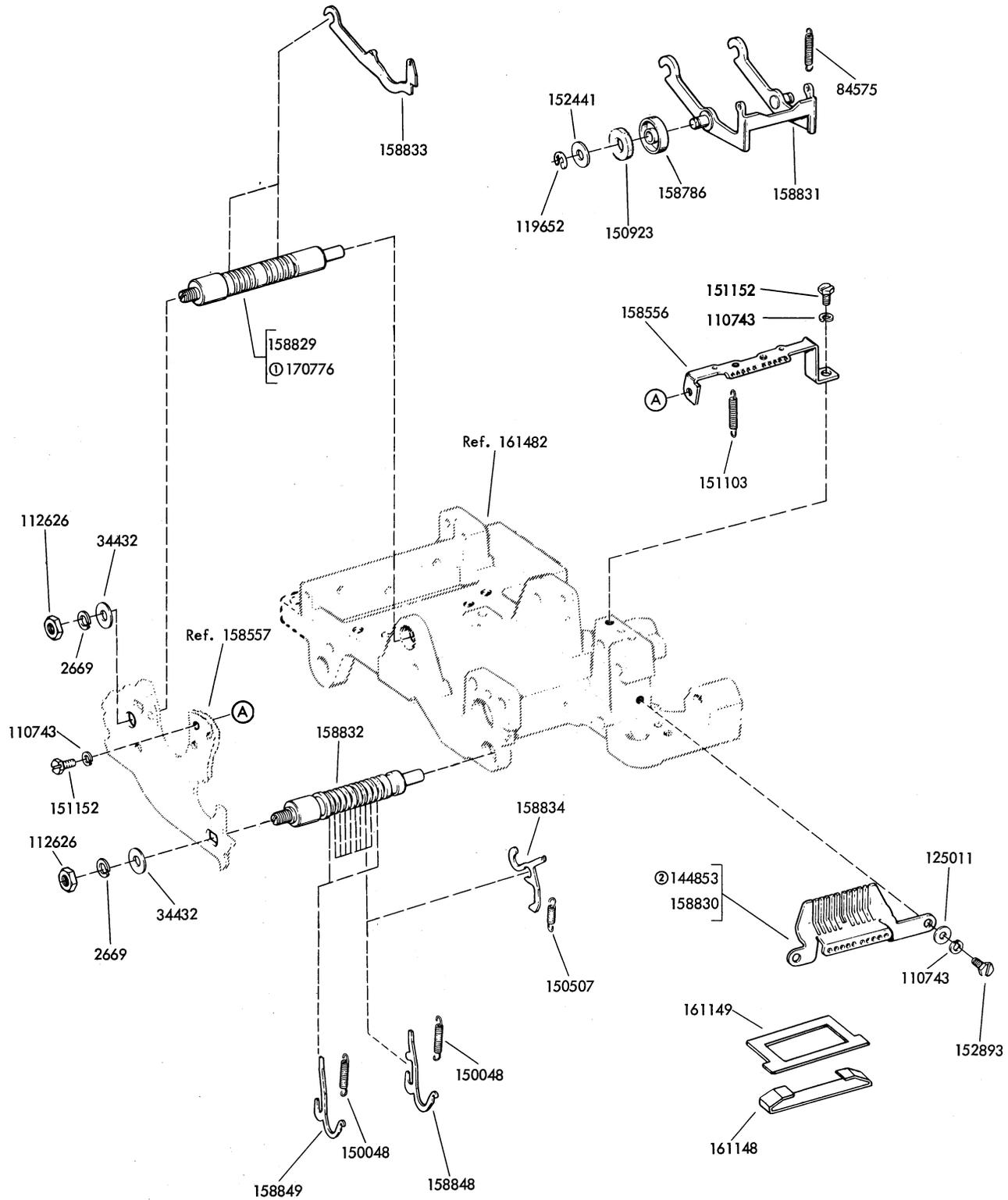
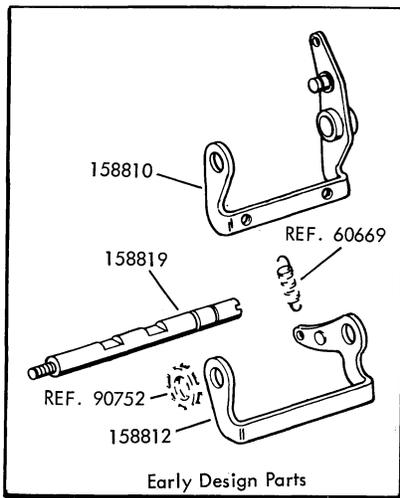


FIGURE 4. CENTER PLATE

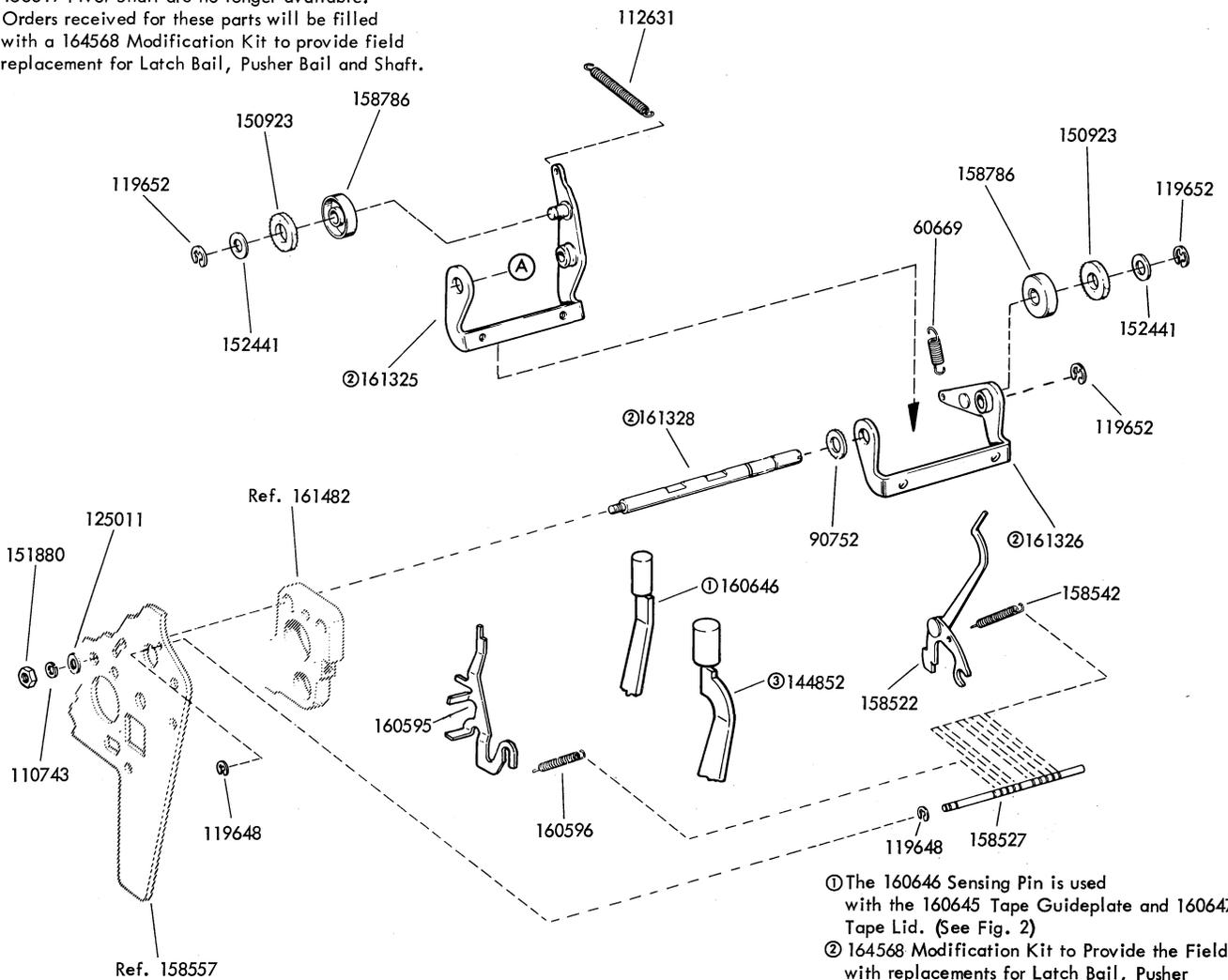
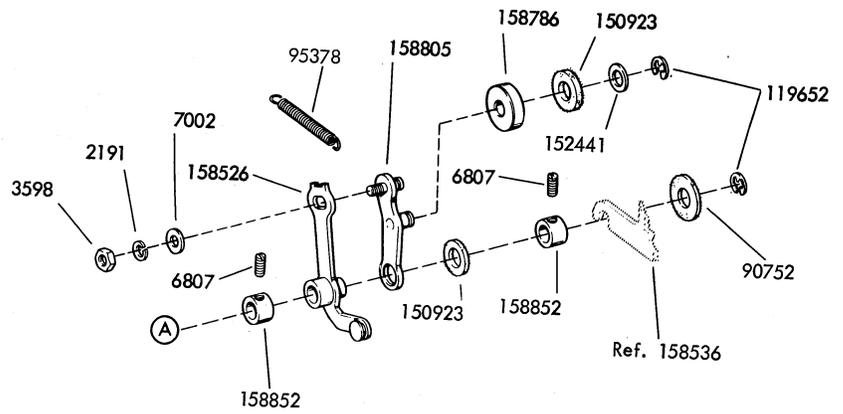


① The 170776 Eccentric Shaft is used on Units equipped with the 170763 Cam Sleeve (See Fig. 8)
 ② Peculiar to 8 Level Units

FIGURE 5. SENSING MECHANISM

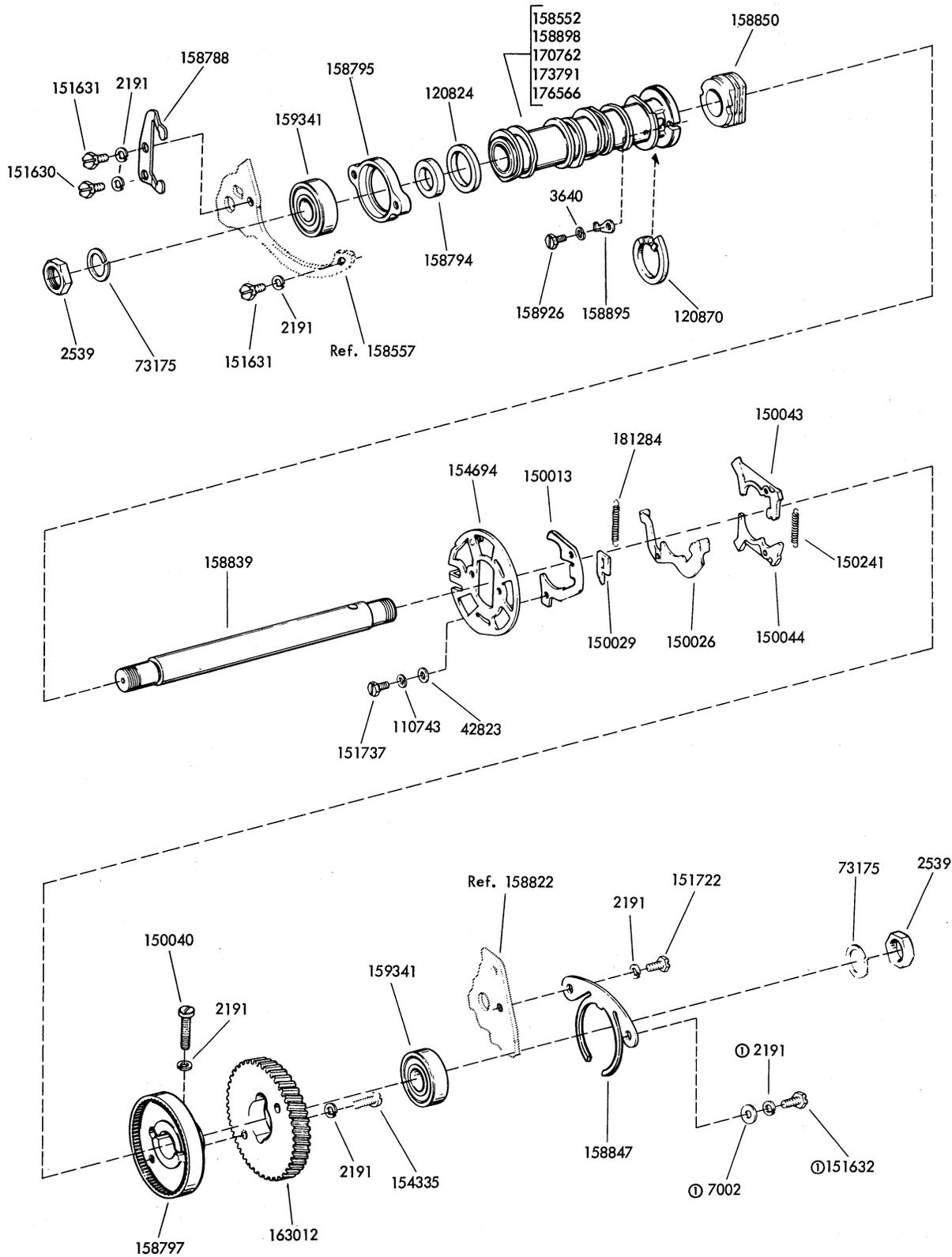


The 158810 Latch Bail, 158812 Pusher Bail & 158819 Pivot Shaft are no longer available. Orders received for these parts will be filled with a 164568 Modification Kit to provide field replacement for Latch Bail, Pusher Bail and Shaft.



- ① The 160646 Sensing Pin is used with the 160645 Tape Guideplate and 160647 Tape Lid. (See Fig. 2)
- ② 164568 Modification Kit to Provide the Field with replacements for Latch Bail, Pusher Bail and Shaft.
- ③ Peculiar to 8 Level Units.

FIGURE 6. BAILS



⓪ Peculiar to Multiple Mounted Unit.

FIGURE 7. SENSING SHAFT (1 Stop)

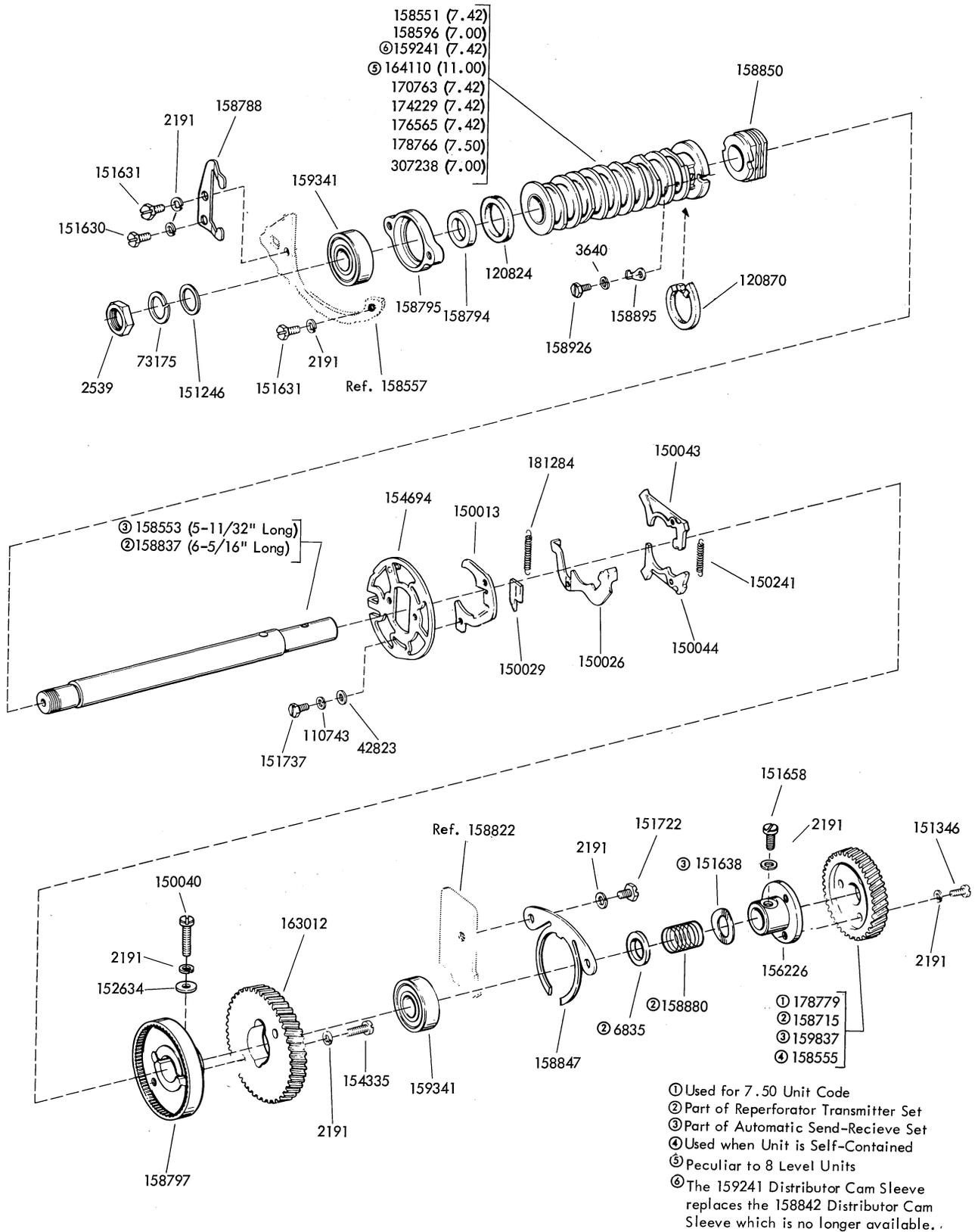


FIGURE 8. DISTRIBUTOR SHAFT (1 Stop)

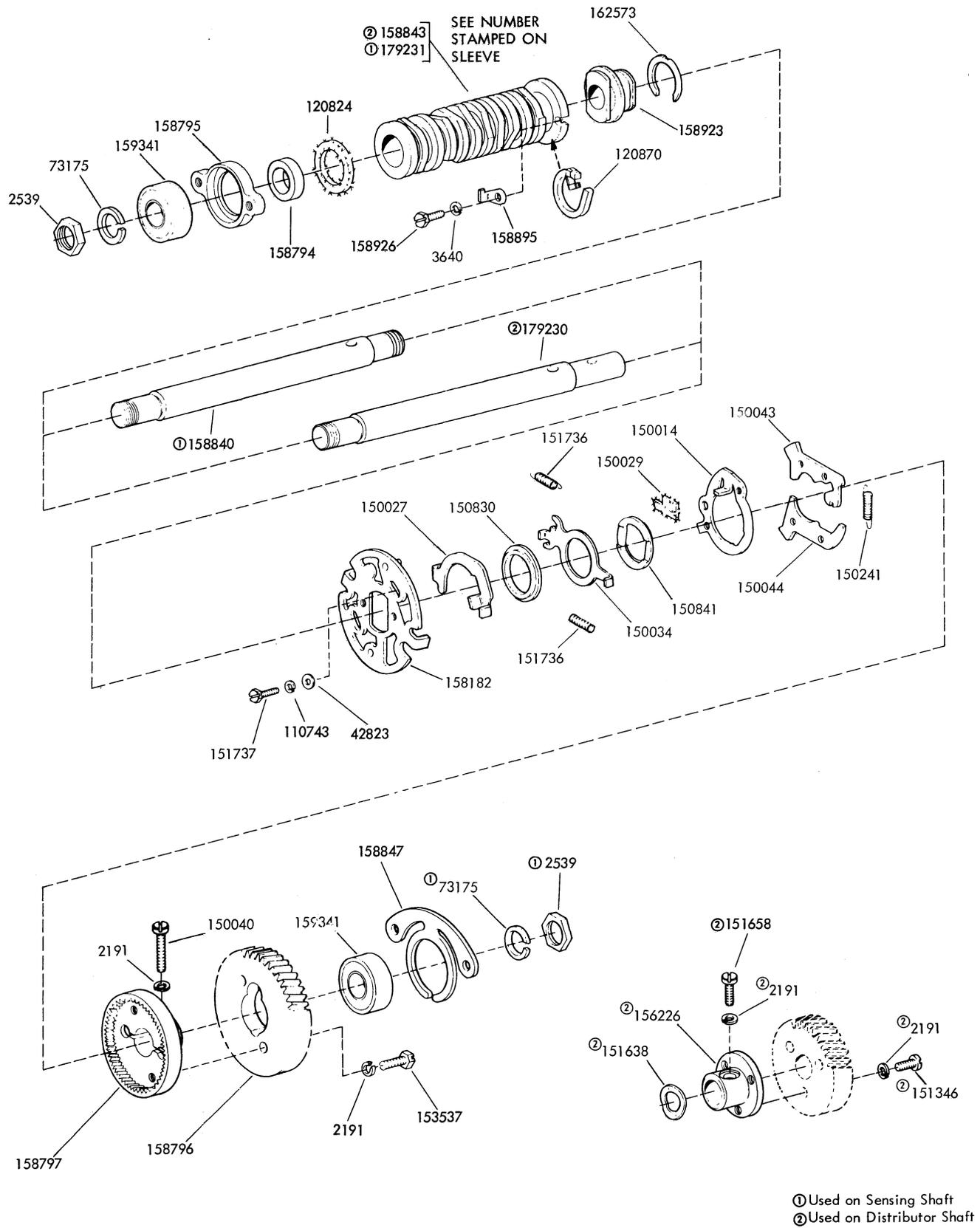
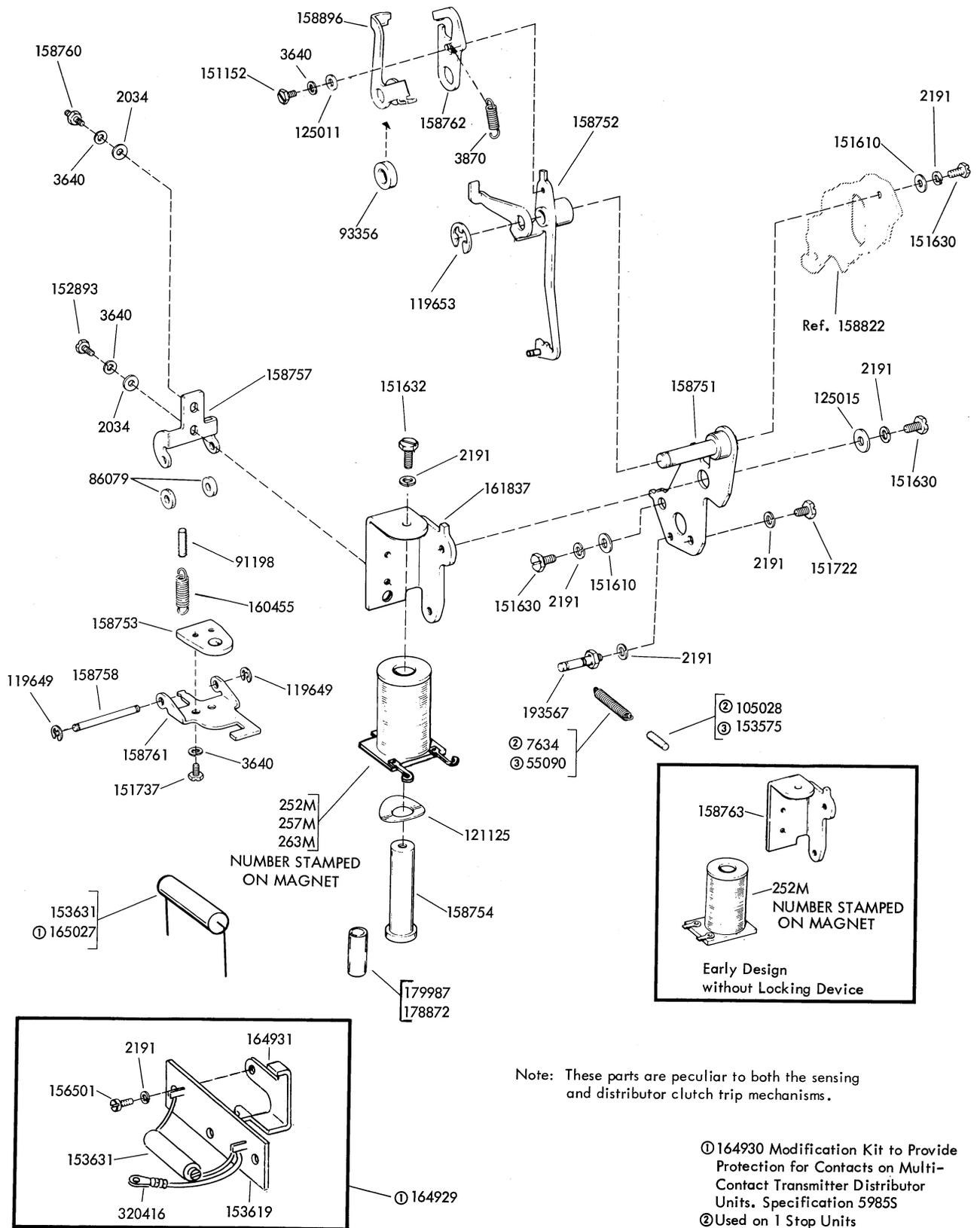


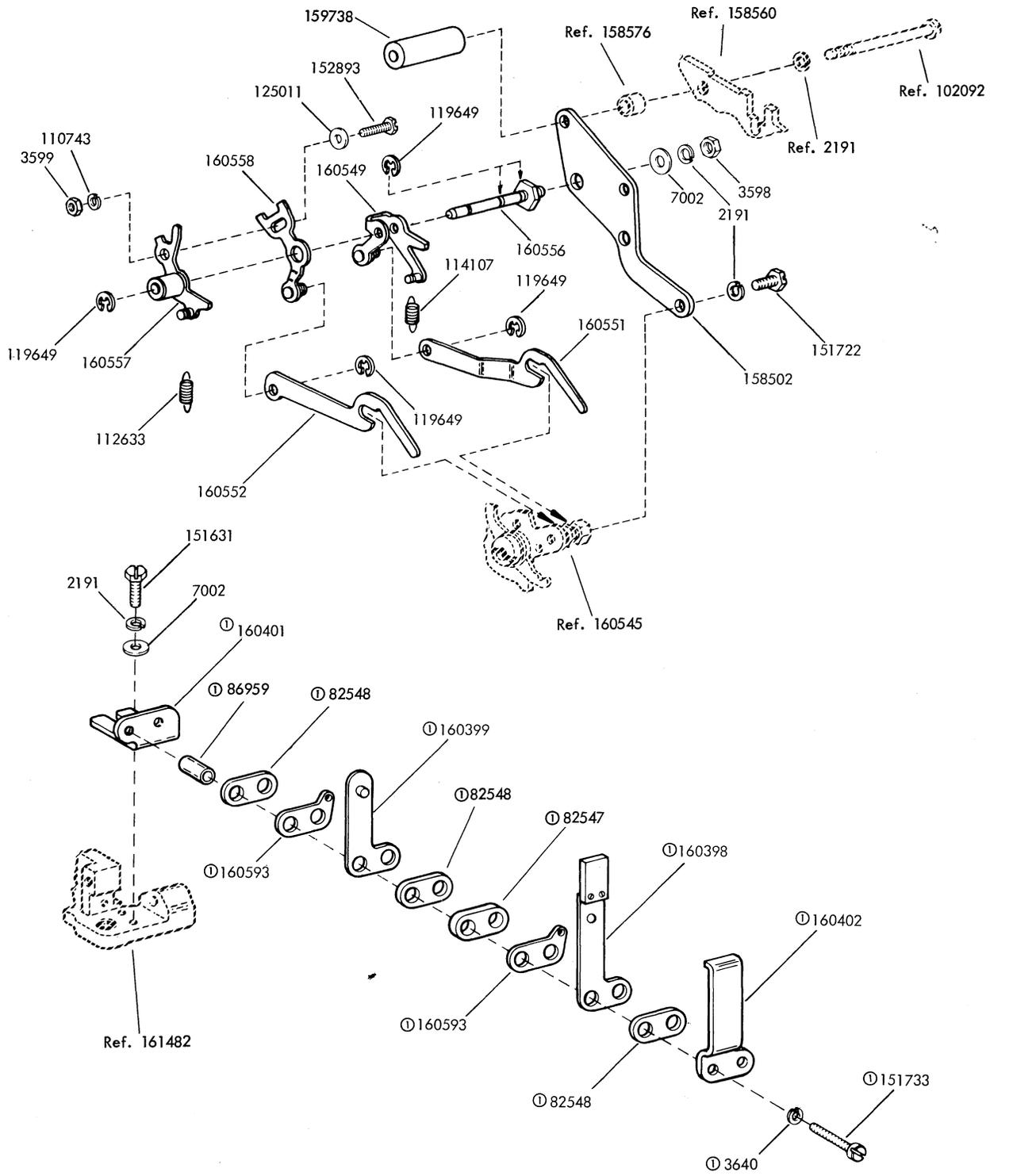
FIGURE 9. SENSING AND DISTRIBUTOR SHAFTS (2 Step)



Note: These parts are peculiar to both the sensing and distributor clutch trip mechanisms.

- ① 164930 Modification Kit to Provide Protection for Contacts on Multi-Contact Transmitter Distributor Units. Specification 5985S
- ② Used on 1 Stop Units
- ③ Used on 2 Stop Units

FIGURE 10. CLUTCH TRIP MECHANISM



Ⓢ 160400 Contact Assembly

FIGURE 11. SWITCH PLATE

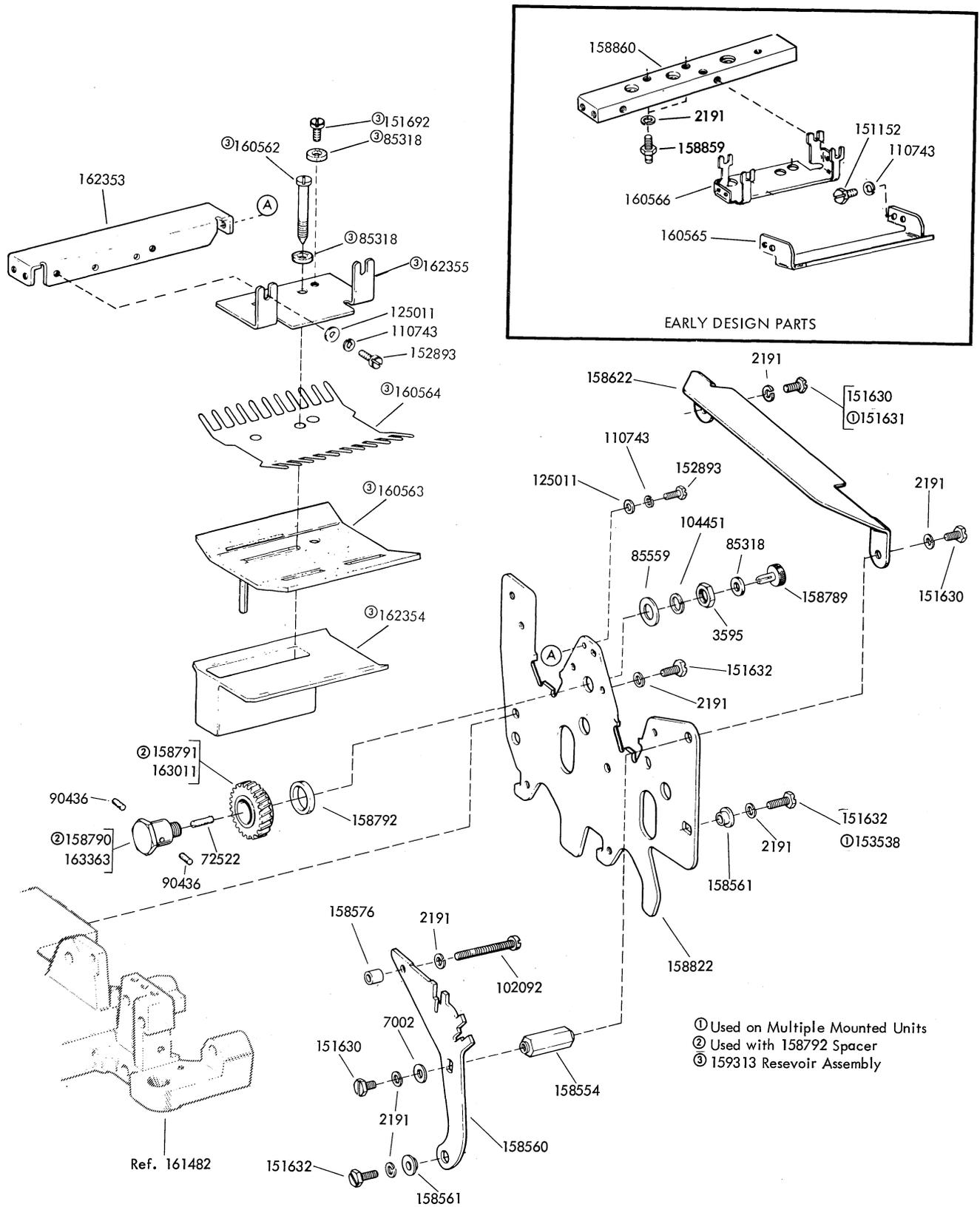


FIGURE 12. REAR PLATE

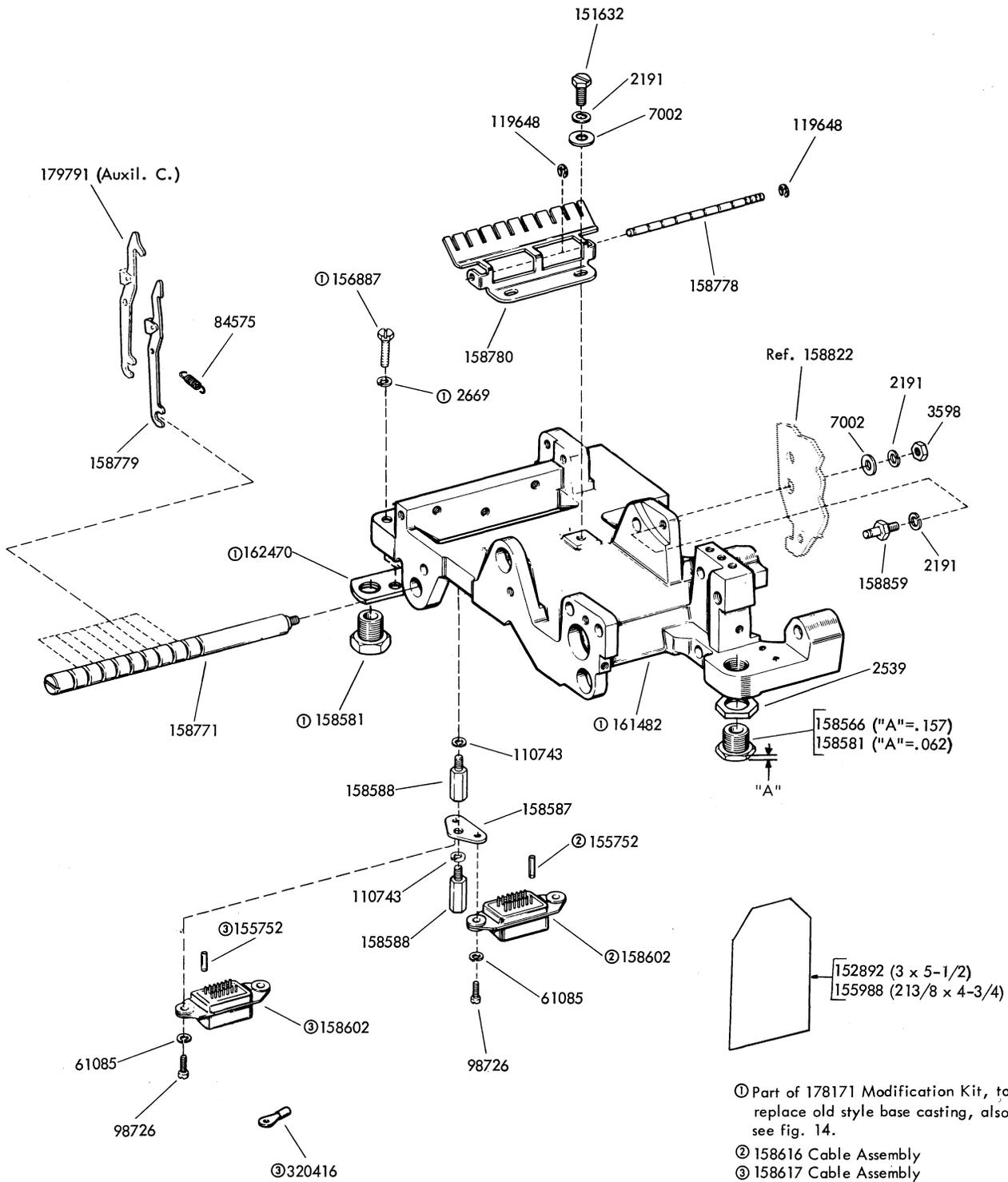


FIGURE 13. MAIN CASTING

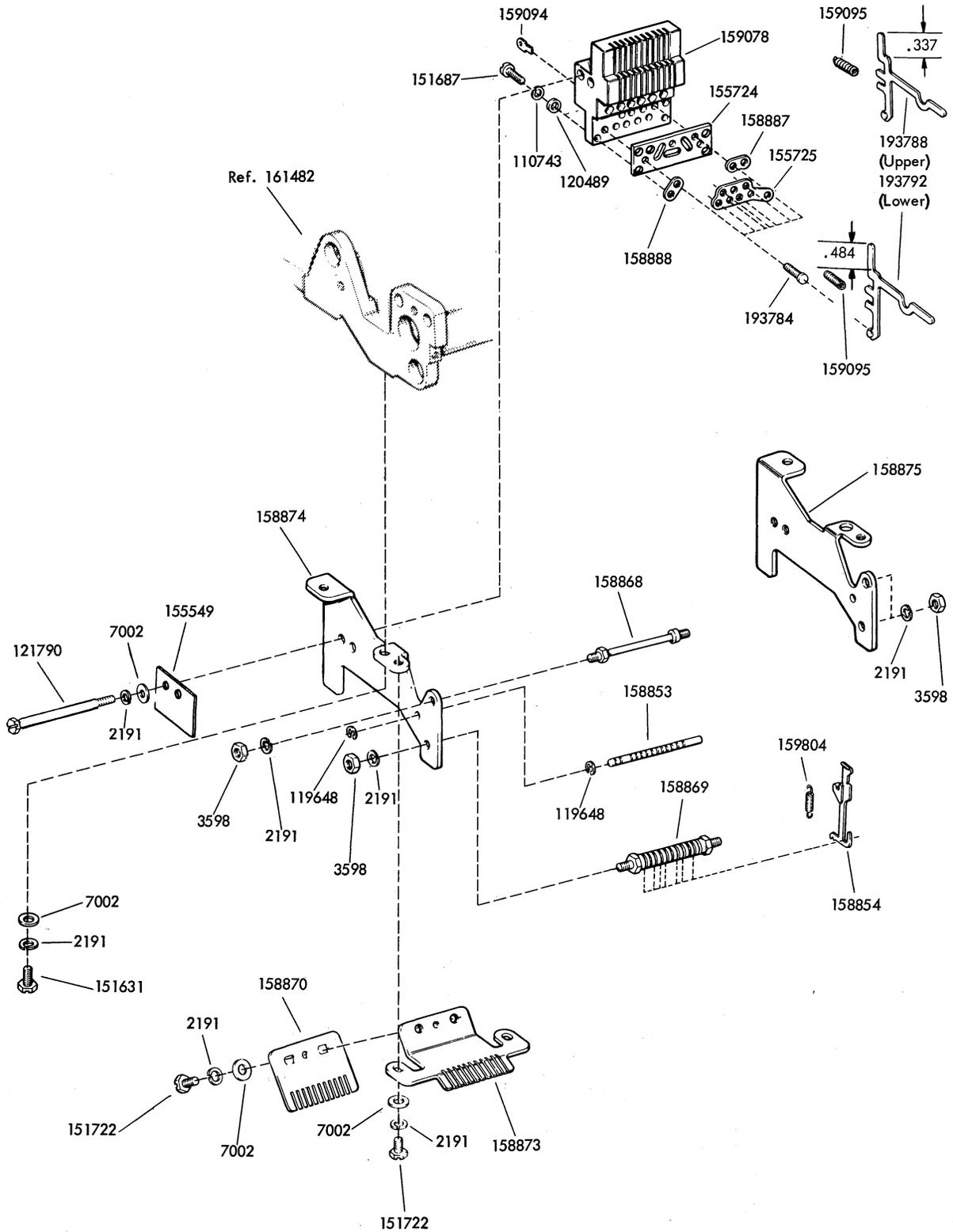
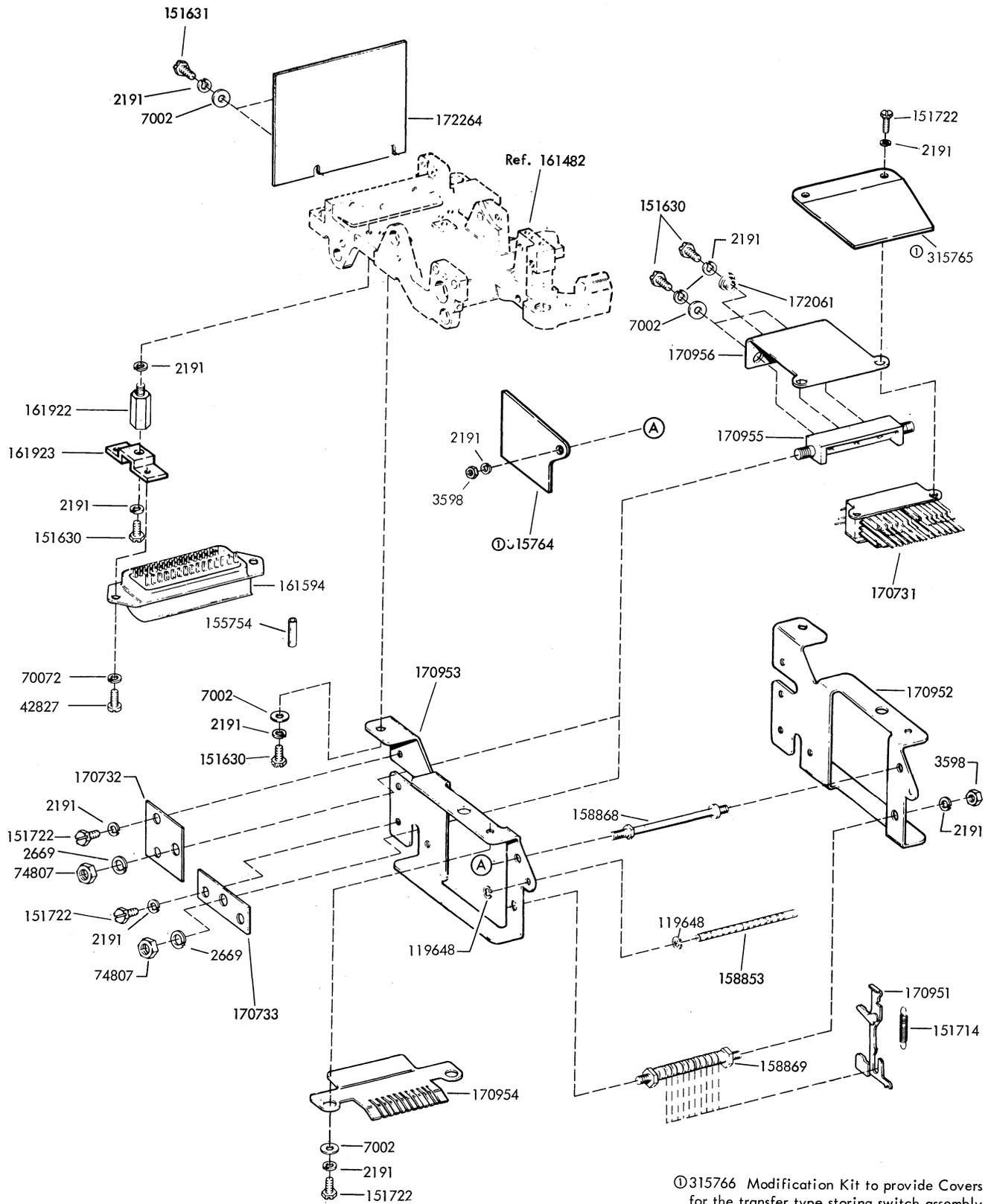


FIGURE 15. STORING SWITCH AND MOUNTING COMPONENTS (5 LEVEL)



Ⓢ315766 Modification Kit to provide Covers for the transfer type storing switch assembly on double shaft Transmitter Distributors.

FIGURE 16. STORING SWITCH MOUNTING COMPONENTS (8 Level)

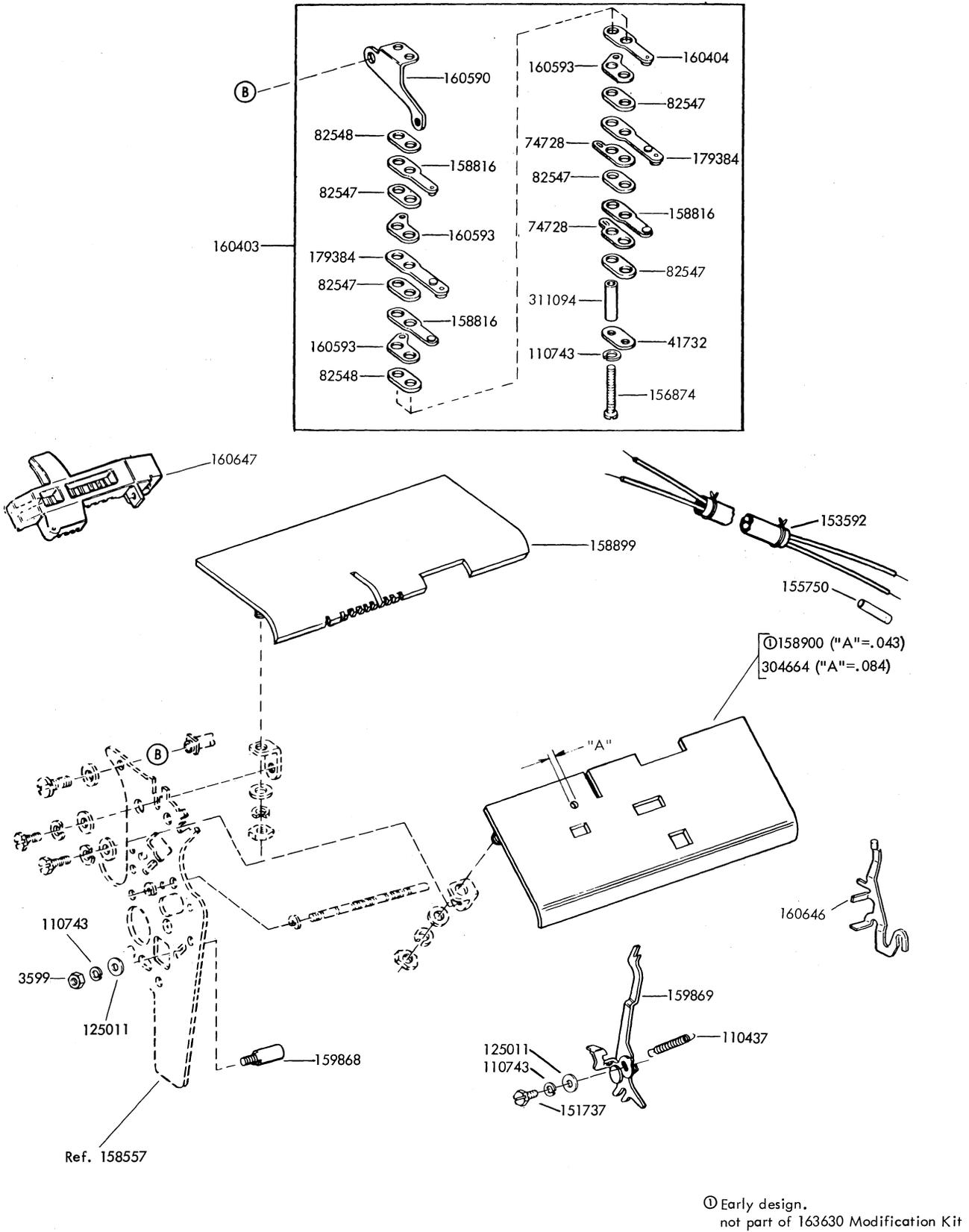


FIGURE 17. 163630 MODIFICATION KIT TO PROVIDE TAPE LID SWITCH

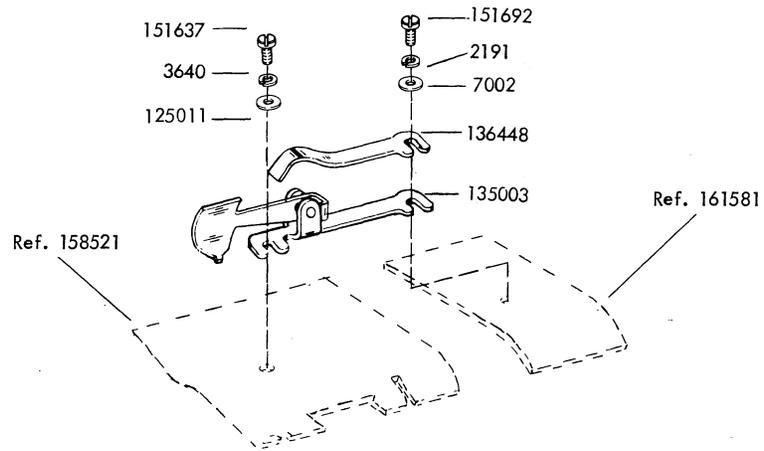


FIGURE 18. 162592 MODIFICATION KIT TO PROVIDE TAPE DEFLECTOR

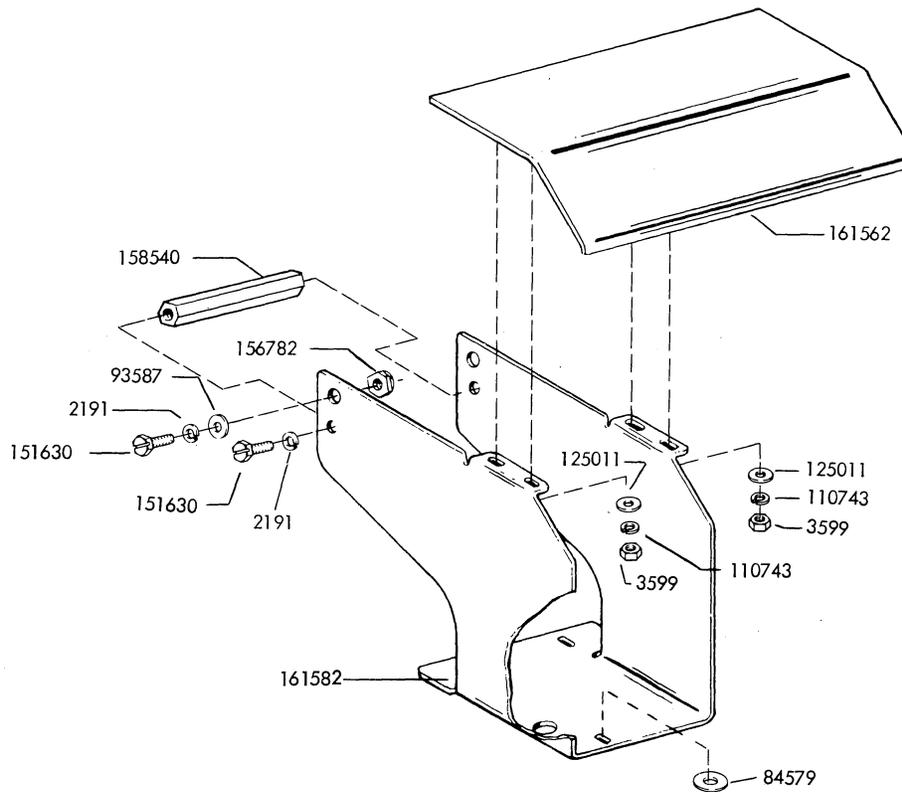
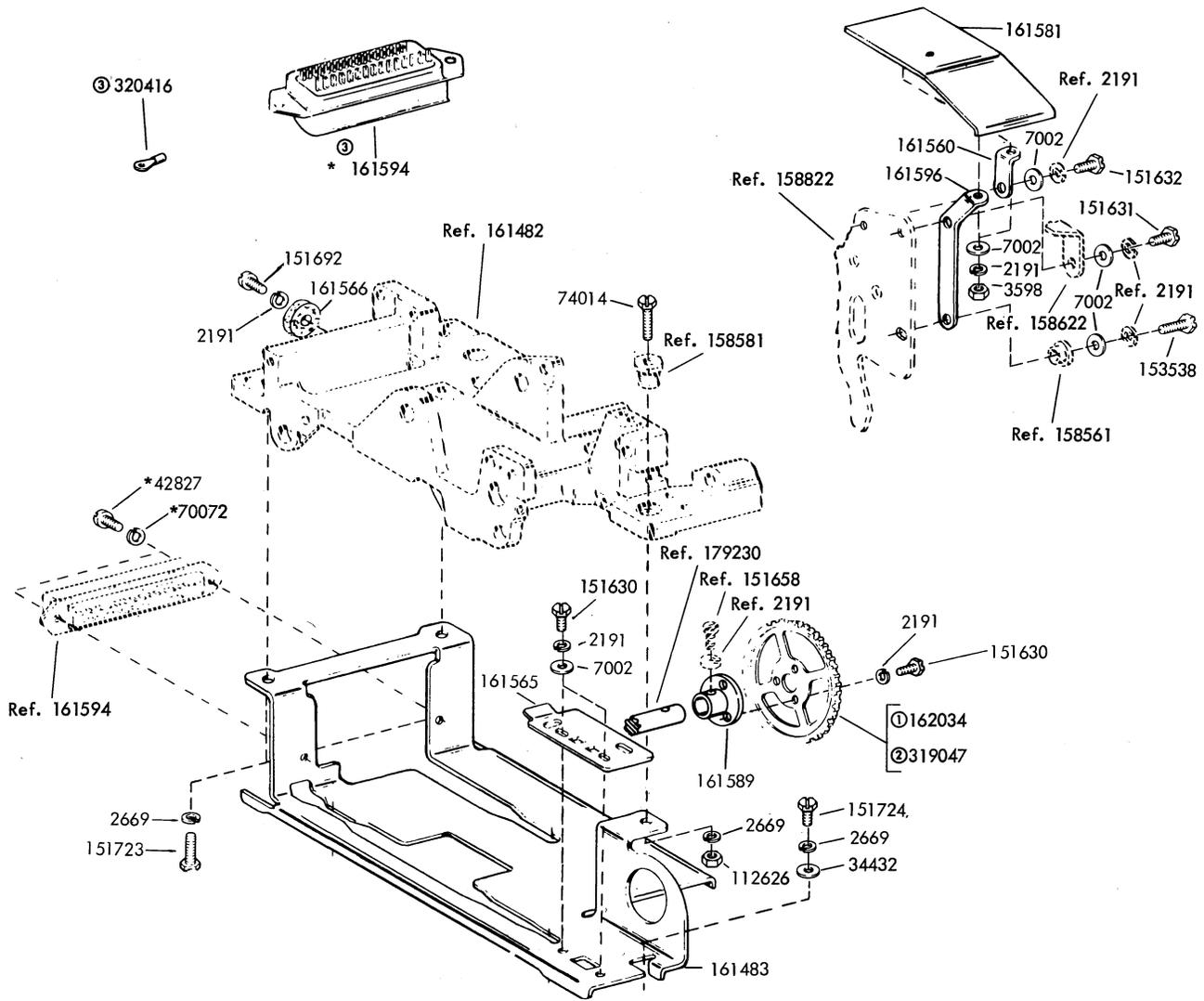


FIGURE 19. 161585 MODIFICATION KIT TO PROVIDE A DUMMY UNIT FOR MULTIPLE MOUNTING BASES



Note 1. 161587 Modification Kit is used when Transmitter Distributors operate at a common speed and 174067 Modification Kit is used when Transmitter Distributor operates at independent speeds.

Note 2. Parts marked "Ref." or with an asterisk (*) are not included in the Modification Kits. Asterisked items are of a later design than those previously used on the Units and are required when modifying an earlier design Transmitter Distributor for Multiple Mounting.

- ① Peculiar to 174067 Modification Kit. See Note 1.
- ② Peculiar to 161587 Modification Kit. See Note 1.
- ③ 161349 Cable Assembly

FIGURE 20. 161587 AND 174067 MODIFICATION KITS TO ADAPT A TRANSMITTER DISTRIBUTOR FOR MULTIPLE MOUNTING

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
252M	Coil, Magnet 11	85559	Washer, Flat 13	144775	Bail, Switch 5
257M	Coil, Magnet 11	86079	Washer, Felt 11	144852	Pin, Tape Out 7
263M	Coil, Magnet 11	86959	Bushing, Insulating 12	144853	Guide 6
2034	Washer, Flat 11	87402	Spring 5	144919	Lid, Tape 3
2191	Lockwasher 2,4,5,7,8,9, 10,11,12,13,14,15,16,17, 19,20	90436	Wick, Felt 13	144944	Plate 3
2539	Nut, 3/8-32 Hex 8,9,10,14	90752	Washer, Felt 6	145347	Bail 3
2669	Lockwasher 6,14,17,20	90789	Washer, Flat 4	150013	Disk, Adjusting 8,9
3595	Nut, 1/4-32 Hex 13	91198	Wick, Felt 11	150014	Disk, Adjusting 10
3598	Nut, 6-40 Hex 2,4,7,12, 14,16,17,20	93356	Washer, Felt 11	150026	Lever, Shoe Release 8,9
3599	Nut, 4-40 Hex 2,3,12,18, 19	93587	Washer, Flat 4,19	150027	Lever, Shoe Release 10
3606	Nut, 6-40 Hex 5	95378	Spring 6	150029	Wick, Felt 8,9,10
3640	Lockwasher 8,9,10,11,12, 19	98726	Screw, 3-48 x 1/4 Fil 14	150034	Disk, 2 Stop Clutch 10
3870	Spring 11	98832	Screw, 4-40 x 11/16 Fil 15	150040	Screw, 6-40 x 5/8 Fil 8, 9,10
6807	Screw, 6-40 Set 7	102092	Screw, 6-40 x 1-17/32 Rd 12,13	150043	Shoe, Secondary Clutch 8, 9,10
6835	Washer, Flat 9	104451	Lockwasher 13	150044	Shoe, Primary Clutch 8, 9,10
7002	Washer, Flat 2,4,5,7,8, 12,13,14,15,16,17,18,20	104751	Spring 3	150048	Spring 6
7634	Spring 11	105028	Wick, Felt 11	150241	Spring 8,9,10
8330	Washer, Flat 15	110334	Screw, 4-40 Shoulder 5	150507	Spring 6
34432	Washer, Flat 6,20	110437	Spring 18	150830	Bushing, Shoulder 10
41675	Washer, Flat 3	110743	Lockwasher 2,3,4,5,6,7,8, 9,10,12,13,14,15,16,18,19	150841	Bearing 10
41732	Plate, Clamp 4,18	111342	Spring 5	150923	Washer, Felt 6,7
42823	Washer, Flat 8,9,10	112626	Nut, 10-32 Hex 6,20	151103	Spring 6
42827	Screw, 3-48 x 1/4 Fil 17,20	112631	Spring 6	151152	Screw, 4-40 x 3/16 Hex 3, 6,11,13
55090	Spring 11	112633	Spring w/Wick 12	151246	Washer, Flat 9
60669	Spring 7	114107	Spring 12	151346	Screw, 6-40 x 3/8 Fil 9, 10
61085	Lockwasher 14,15	115221	Washer, Felt 4	151395	Spring 3,5
70072	Lockwasher 17,20	119647	Ring, Retaining 3,5	151442	Screw, 6-40 x 1/2 Hex 4
70388	Spring 5	119648	Ring, Retaining 3,7,14, 16,17	151610	Washer, Flat 11
70878	Spring 3	119649	Ring, Retaining 3,11,12	151630	Screw, 6-40 x 1/4 Hex 4, 5,8,9,11,13,17,19,20
72522	Wick, Felt 13	119650	Ring, Retaining 5	151631	Screw, 6-40 x 5/16 Hex 4, 8,9,12,13,16,17,20
73175	Lockwasher 8,9,10	119651	Ring, Retaining 3	151632	Screw, 6-40 x 3/8 Hex 4, 8,11,13,14,20
74014	Screw, 10-32 x 3/4 Hex 20	119652	Ring, Retaining 3,6,7	151637	Screw, 4-40 x 1/4 Fil 19
74728	Terminal, Contact 18	119653	Ring, Retaining 5,11	151638	Washer, Spring 9,10
74807	Nut, 10-32 Shoulder Hex 17	120489	Spacer, .052" Thk 5,16	151658	Screw, 6-40 x 5/16 Fil 9, 10,20
76275	Pallet, Type 4	120824	Washer, Felt 8,9,10	151687	Screw, 4-40 x 7/16 Fil 2, 16
80755	Bushing, Insulating 4	120870	Wick, Felt 8,9,10	151688	Screw, 4-40 x 5/8 Fil 4
81895	Post, Spring 5	121125	Washer, Spring 11	151692	Screw, 6-40 x 3/16 Fil 13,19,20
82547	Insulator, .094" Thk 4, 12,18	121244	Clamp, 1/4 ID Cable 4	151693	Screw, 6-40 x 9/16 Fil 15
82548	Insulator, .062" Thk 4, 12,18	121248	Clamp, 1/2 ID Cable 4	151714	Spring 17
84575	Spring 6,14	121790	Screw, 6-40 x 1-7/8 Hex 16	151715	Spring 3
84579	Washer, Flat 19	125011	Washer, Flat 2,3,4,6,7, 11,12,13,15,18,19		
85318	Washer, Leather 13	125015	Washer, Flat 4,11		
		125802	Washer, Flat 4		
		135003	Deflector, Tape 19		
		136448	Spring, Flat 19		

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
151721	Screw, 6-40 x 3/4 Hex 15	156647	Lever, Start-Stop 3	158596	Camsleeve, 1 Hertz 9
151722	Screw, 6-40 x 3/16 Hex 8, 9,11,12,16,17	156673	Bail w/Stud 3	158602	Connector, 14 Pt Receptacle 14,15
151723	Screw, 10-32 x 3/8 Hex 20	156779	Plunger 2	158616	Cable Assembly 14
151724	Screw, 10-32 x 5/8 Hex 20	156782	Nut, 6-40 Spl 4,19	158617	Cable Assembly 14
151733	Screw, 4-40 x 9/16 Fil 12	156811	Guide, Left 3	158618	Cable Assembly 15
151736	Spring 10	156857	Bail, Intermediate 5	158622	Deflector 13,20
151737	Screw, 4-40 x 11/64 Hex 8,9,10,11,18	156874	Screw, 4-40 x 15/16 Fil 18	158625	Bracket w/Stud 3
151846	Post, Spring 5	156887	Screw, 10-32 x 9/16 Hex 14	158626	Bracket w/Stud 3
151880	Nut, 4-40 Hex 3,4,7,15	158182	Disk, Clutch Cam 10	158627	Plate w/Studs 2,3
152441	Washer, Flat 6,7	158502	Plate, Control 12	158715	Gear, 32T 9
152634	Washer, Flat 9	158505	Stud 4	158751	Plate, Clutch Trip 11
152892	Label, Warning 14	158506	Lever, Detent 5	158752	Lever, Trip 11
152893	Screw, 4-40 x 1/4 Hex 2, 4,5,6,11,12,13	158508	Pawl 5	158753	Armature, Magnet 11
153537	Screw, 6-40 x 9/32 Hex 10	158508	Pawl 5	158754	Core, Magnet 11
153538	Screw, 6-40 x 7/16 Hex 13,20	158513	Plate, Cover 2	158757	Hinge, Mounting 11
153575	Wick, Felt 11	158514	Plate, Spring 2	158758	Shaft 11
153592	Cable 18	158515	Bracket 2	158760	Post, Spring 11
153619	Board, Terminal 11	158516	Rod 2	158761	Bail, Armature 11
153631	Network, Spark Suppression 4,11	158517	Spring, Compression 2	158762	Lever, Trip 11
154335	Screw, 6-40 x 9/32 Fil 8,9	158521	Plate, Top 2,19	158763	Bracket 11
154694	Disk, Clutch Cam 8,9	158522	Pin, Sensing 7	158766	Screw, 6-40 Contact 15
155549	Shield 16	158526	Lever, Feed 7	158767	Guide, Lever 15
155724	Strip, Insulating 16	158527	Rod, Spring 7	158768	Terminal 15
155725	Plate 16	158528	Spacer, .312" Thk 15	158770	Terminal, Spring Holder 15
155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 18	158529	Bushing, Guide 5	158771	Shaft 14
155752	Sleeve, 5/64 ID x 1/2" Lg Insulating 14,15	158531	Shaft 5	158777	Holder, Screw 15
155754	Sleeve, 1/16 ID x 1/2" Lg Insulating 17	158533	Bushing, Eccentric 5	158778	Post, Spring 14
155988	Label 14	158535	Post 4,5	158779	Lever, Cam Follower 14
156226	Hub 9,10	158536	Plate, Center 5,7	158780	Guide 14
156501	Screw, 6-40 x 7/32 Fil 11	158539	Post 4	158781	Rocker, Contact 15
156549	Lid, Tape 3	158540	Post 4,19	158786	Roller 6,7
156551	Guide, Right 3	158542	Spring 7	158788	Clamp, Bearing 8,9
156553	Post, Eccentric 3	158551	Camsleeve, 1 Hertz 9	158789	Plug, Oil Retainer 13
156554	Bail 3	158552	Camsleeve 8	158790	Stud 13
156555	Plunger, Tape Lid 3	158553	Shaft 9	158791	Gear, 23T 13
156556	Bracket 2,3	158554	Post, Pilot 13	158792	Spacer, .083" Thk 13
156558	Washer, Felt 3	158555	Gear, 40T 9	158794	Spacer, .109" Thk 8,9, 10
156559	Post 3	158556	Bracket, Spring 6	158795	Plate 8,9,10
156560	Bail 3	158557	Plate, Front 2,4,5,6,7, 8,9,18	158796	Gear, 46T 10
156561	Shaft 3	158559	Plate, Intermediate 4	158797	Drum, Clutch 8,9,10
156577	Roller, Detent Lever 5	158560	Plate, Intermediate 12,13	158805	Lever 7
156636	Wheel, Feed 4	158561	Bushing 4,13,20	158810	Bail, Latch 7
		158566	Bushing 14	158812	Bail, Pusher 7
		158576	Spacer, .218" Thk 12,13	158816	Spring, Contact 4,18
		158581	Bushing 14,20	158819	Shaft, Pivot 7
		158583	Clip, Spring 5	158822	Plate, Rear 8,9,11,13, 14,20
		158585	Post 4	158829	Shaft, Eccentric 6
		158587	Plate 14		
		158588	Post 14		

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
158830	Guide 6	159868	Post 18	161565	Plate, Locating 20
158831	Bail Sensing 6	159869	Pin, Tape Lid 18	161566	Bushing, Insulating 20
158832	Shaft, Eccentric 6	160398	Spring, Contact 12	161581	Plate, Filler 19,20
158833	Lever, Auxiliary 6	160399	Spring, Contact 12	161582	Bracket, Dummy 19
158834	Lever, Latch 6	160400	Contact Assembly 12	161585	Modification Kit 1
158837	Shaft, 6-5/16" Lg 9	160401	Bracket, Switch Mounting 12	161587	Modification Kit 20
158839	Shaft, 1 Stop Sensing 8			161589	Hub, Gear 20
158840	Shaft, 4-13/16 Lg 10	160402	Bracket, Stop 12	161594	Connector, 36 Pt Plug 17,20
158842	Sleeve 9	160403	Contact Assembly 18		
158843	Camsleeve, 2 Hertz 10	160404	Spring, Contact 18	161596	Bracket, Filler Plate 20
158846	Post, Spring 4	160455	Spring 11	161837	Bracket 11
158847	Clamp, Bearing 8,9,10	160544	Shaft 5	161922	Post 17
158848	Lever, Push 6	160545	Post, Guide 5,12	161923	Strip 17
158849	Lever, Push 6	160546	Post 5	162034	Gear, 96T 20
158850	Bearing, Sleeve 8,9	160548	Bail 5	162353	Bracket 13
158852	Collar, Set 7	160549	Bail 12	162354	Reservoir, Oil 13
158853	Post, Spring 16,17	160551	Arm, Slide 12	162355	Bracket 13
158854	Slide 16	160552	Arm, Slide 12	162470	Plate, Adapter 14
158859	Post, Spring 13,14	160556	Stud 12	162573	Retainer 10
158860	Bar 13	160557	Arm 12	162592	Modification Kit 1,19
158868	Post, Spring 16,17	160558	Arm 12	163011	Pinion, 23T 13
158869	Shaft, Eccentric 16,17	160562	Screw, 6-40 Spl 13	163012	Gear, 46T 8,9
158870	Guide 16	160563	Wick, Leather 13	163363	Stud 13
158873	Guide 16	160564	Stiffener 13	163630	Modification Kit 1,18
158874	Plate, Front 16	160565	Bail 13	163665	Modification Kit 3
158875	Plate, Rear 16	160566	Bracket 13	164110	Camsleeve, 1 Hertz 9
158880	Spring, Compression 9	160590	Bracket, Switch Mounting 4,18	164467	Post, Eccentric 3
158882	Bracket 15			164468	Bail 3
158883	Spring, Compression 15	160591	Bracket, Spring 4	164469	Post 3
158887	Plate 16	160592	Bail, Switch 5	164470	Bracket w/Stud 3
158888	Plate 16	160593	Terminal 4,12,18	164471	Bracket w/Stud 3
158895	Clip 8,9,10	160594	Contact Assembly, Tape Out 4	164472	Modification Kit 3
158896	Lever, Latch 11			164568	Modification Kit 7
158898	Camsleeve 8	160595	Pin, Tape Out 7	164929	Suppressor Assembly, Spark 11
158899	Plate, Top 18	160596	Spring 7		
158900	Plate 18	160645	Plate 3	164930	Modification Kit 11
158923	Bearing, Sleeve 10	160646	Pin, Sensing 3,7,18	164931	Bracket 11
158926	Screw, 4-40 x 7/32 Hex 8,9,10	160647	Lid, Tape 3,7,18	165027	Network, Spark Suppression 4,11,15
159078	Block, Contact 16	161148	Retainer, Oil Wick 6		
159094	Plate 16	161149	Wick, Oil 6	170731	Contact Assembly 17
159095	Spring 16	161291	Bushing 3	170732	Plate, Top 17
159241	Camsleeve 9	161325	Bail, Latch 7	170733	Plate, Bottom 17
159293	Arm, Extension 5	161326	Bail, Pusher 7	170762	Camsleeve, 1 Hertz 8
159313	Reservoir Arm 13	161328	Shaft, Pivot 7	170763	Camsleeve, 1 Hertz 6,9
159341	Bearing, Ball 8,9,10	161349	Cable Assembly 20	170776	Shaft, Eccentric 6
159347	Bail 5	161440	Spring 3	170951	Slide 17
159738	Spacer, .019" Thk 5,12	161482	Casting, Main 4,6,7,12, 13,14,15,16,17,20	170952	Plate, Rear Side 17
159800	Spring 15	161483	Cradle 20	170953	Plate, Front Side 17
159804	Spring 16	161560	Bracket, Filler Plate 20	170954	Guide 17
159837	Gear, 48T 9	161562	Plate, Dummy 19	170955	Bar, Support 17
				170956	Bracket, Contact 17

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172061	Bushing, Shoulder 17	178779	Gear, 60T 9	199301	Holder Assembly, Tape 2
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