

28 TRANSMITTER (LX) AND 28 TRANSMITTER DISTRIBUTOR (LXD) UNIT

PARTS

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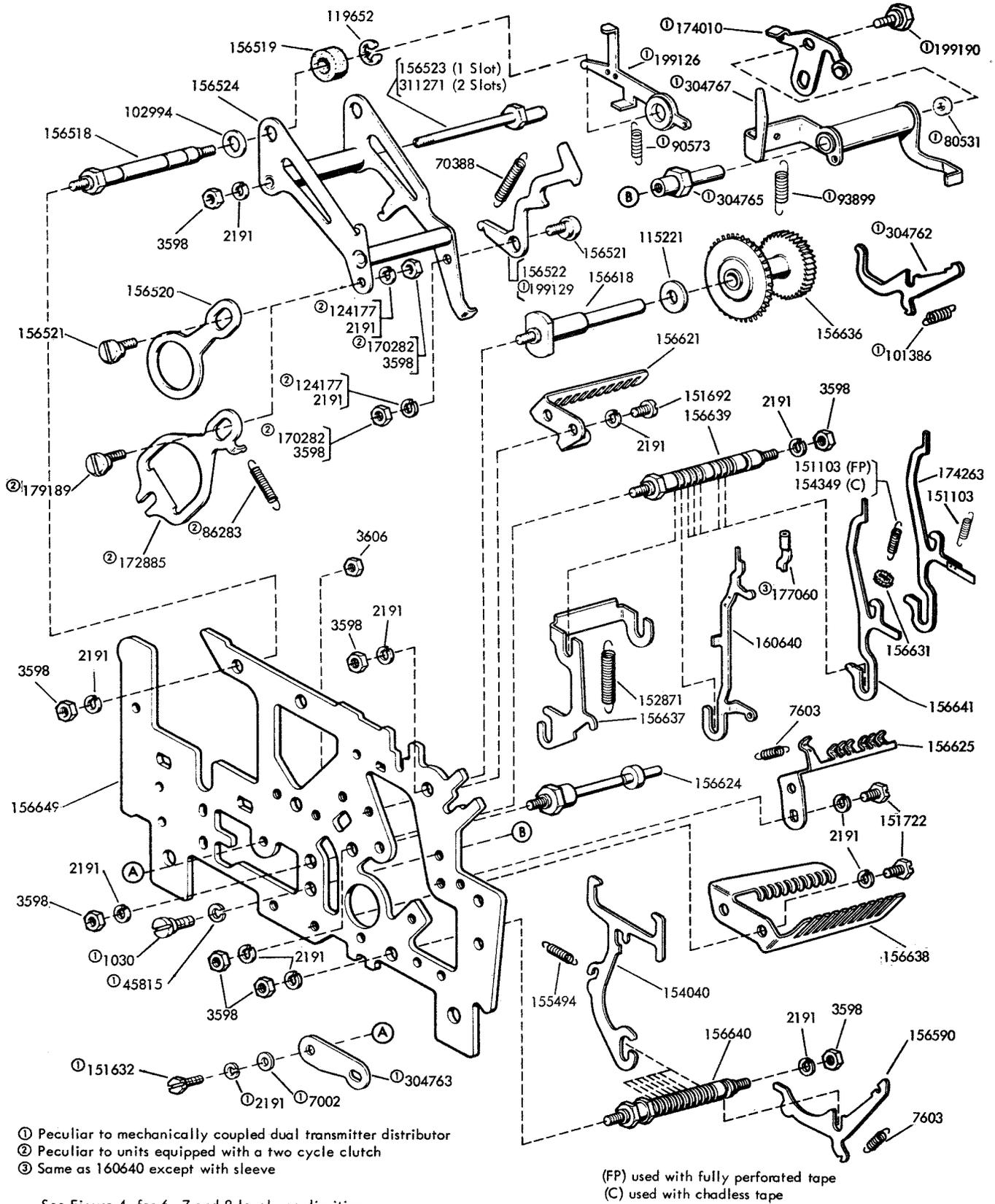
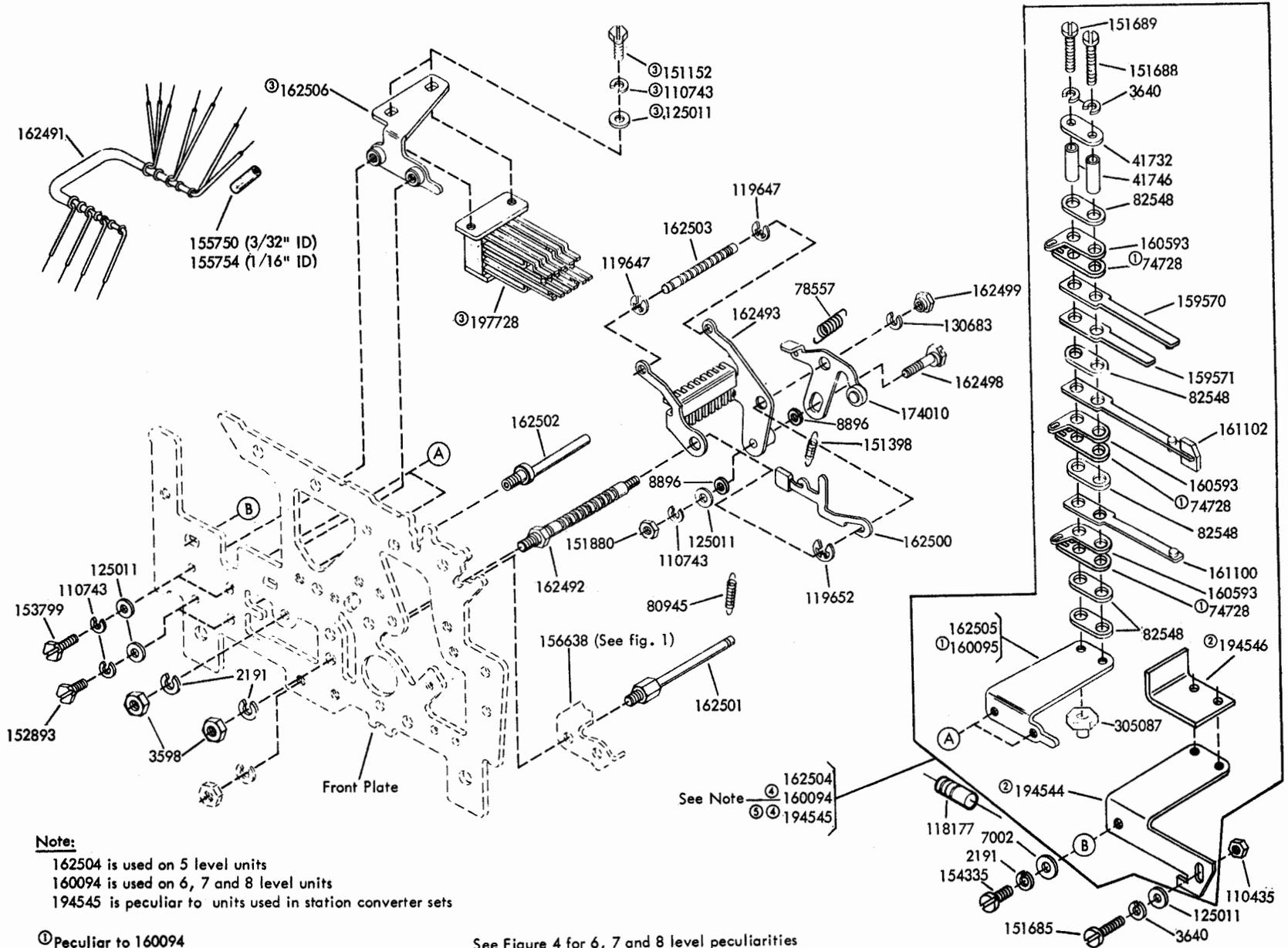


FIGURE 1. FRONT PLATE MECHANISM

FIGURE 3. 162490 MODIFICATION KIT TO PROVIDE MULTIPLE WIRE OUTPUT ON TRANSMITTER-DISTRIBUTOR



Note:

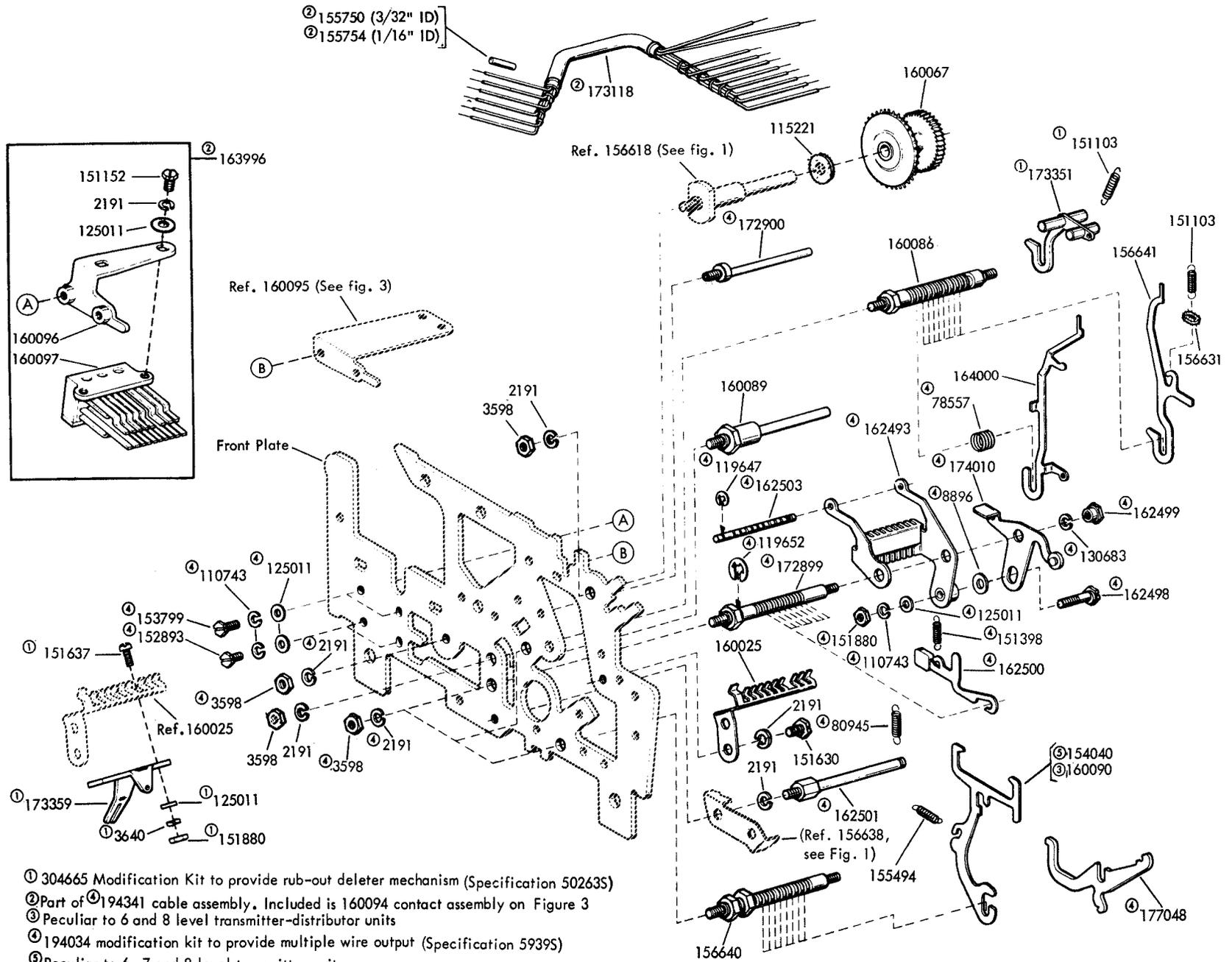
- 162504 is used on 5 level units
- 160094 is used on 6, 7 and 8 level units
- 194545 is peculiar to units used in station converter sets

- ① Peculiar to 160094
- ② Peculiar to 194545
- ③ 194344 Contact Assembly (5 Level)
- ④ Not part of 162490 modification kit
- ⑤ Part of 194341 cable assembly. See fig. 4

See Figure 4 for 6, 7 and 8 level peculiarities

Specification 5939S

FIGURE 4. FRONT PLATE MECHANISM (FOR 6, 7 AND 8 LEVEL CODE UNITS)



- ① 304665 Modification Kit to provide rub-out deleter mechanism (Specification 502635)
- ② Part of ①194341 cable assembly. Included is 160094 contact assembly on Figure 3
- ③ Peculiar to 6 and 8 level transmitter-distributor units
- ④ 194034 modification kit to provide multiple wire output (Specification 59395)
- ⑤ Peculiar to 6, 7 and 8 level transmitter units

FIGURE 5. FRONT PLATE MECHANISM (WITH TAPE FEED ASSURANCE CONTACT)

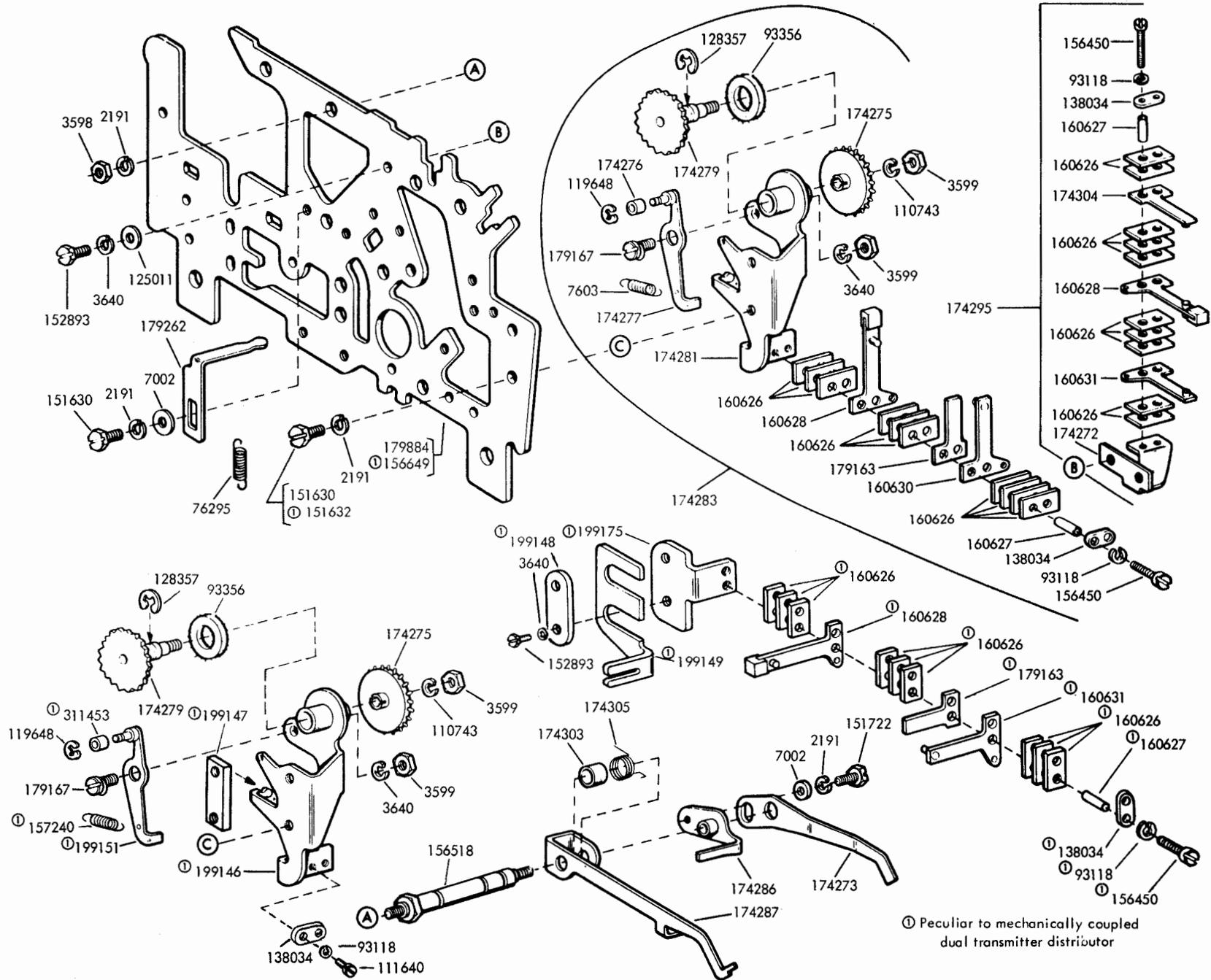
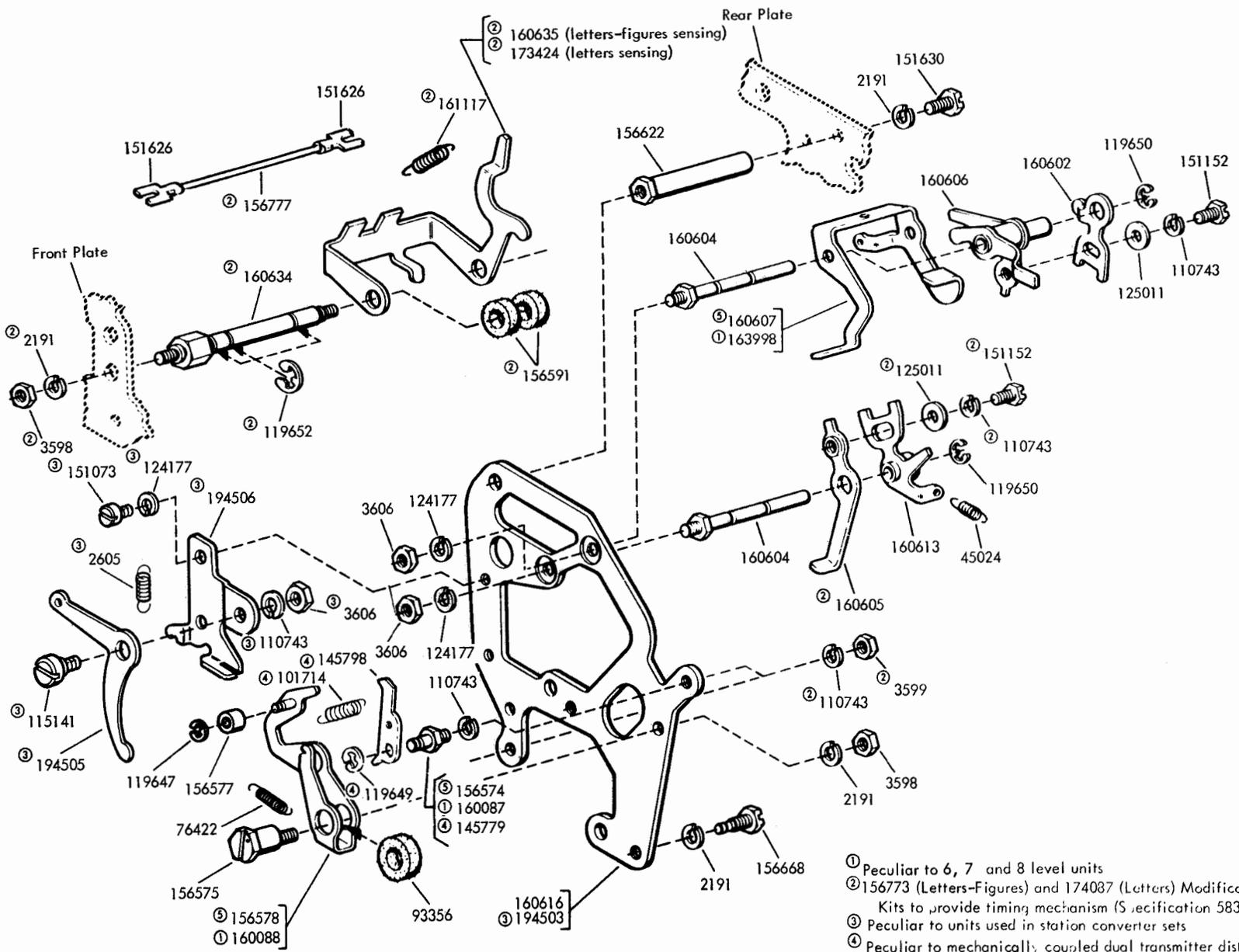


FIGURE 6. CENTER PLATE AND TIMING MECHANISMS



- ① Peculiar to 6, 7 and 8 level units
- ② 156773 (Letters-Figures) and 174087 (Letters) Modification Kits to provide timing mechanism (Specification 58365)
- ③ Peculiar to units used in station converter sets
- ④ Peculiar to mechanically coupled dual transmitter distributor
- ⑤ Peculiar to 5 level units

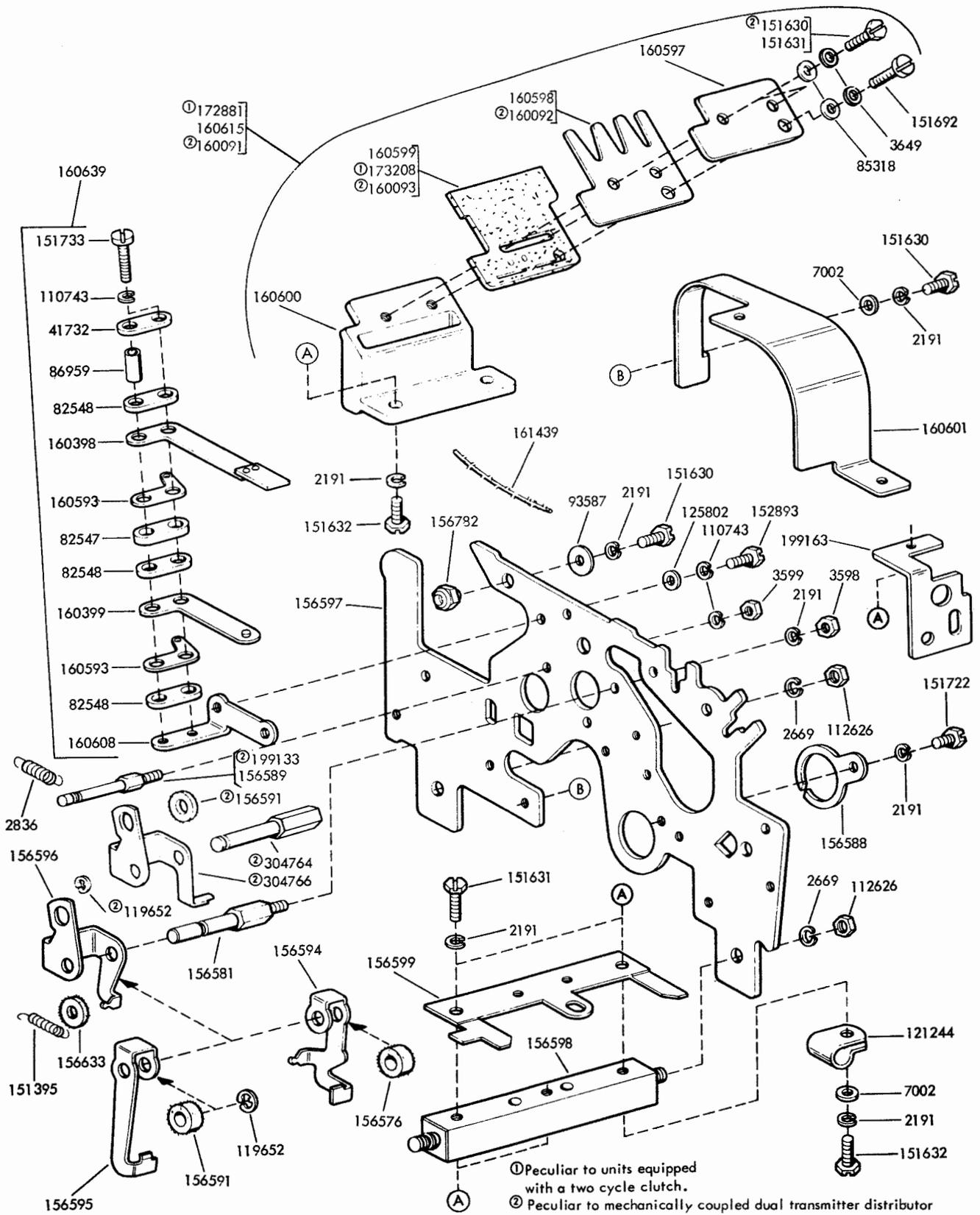
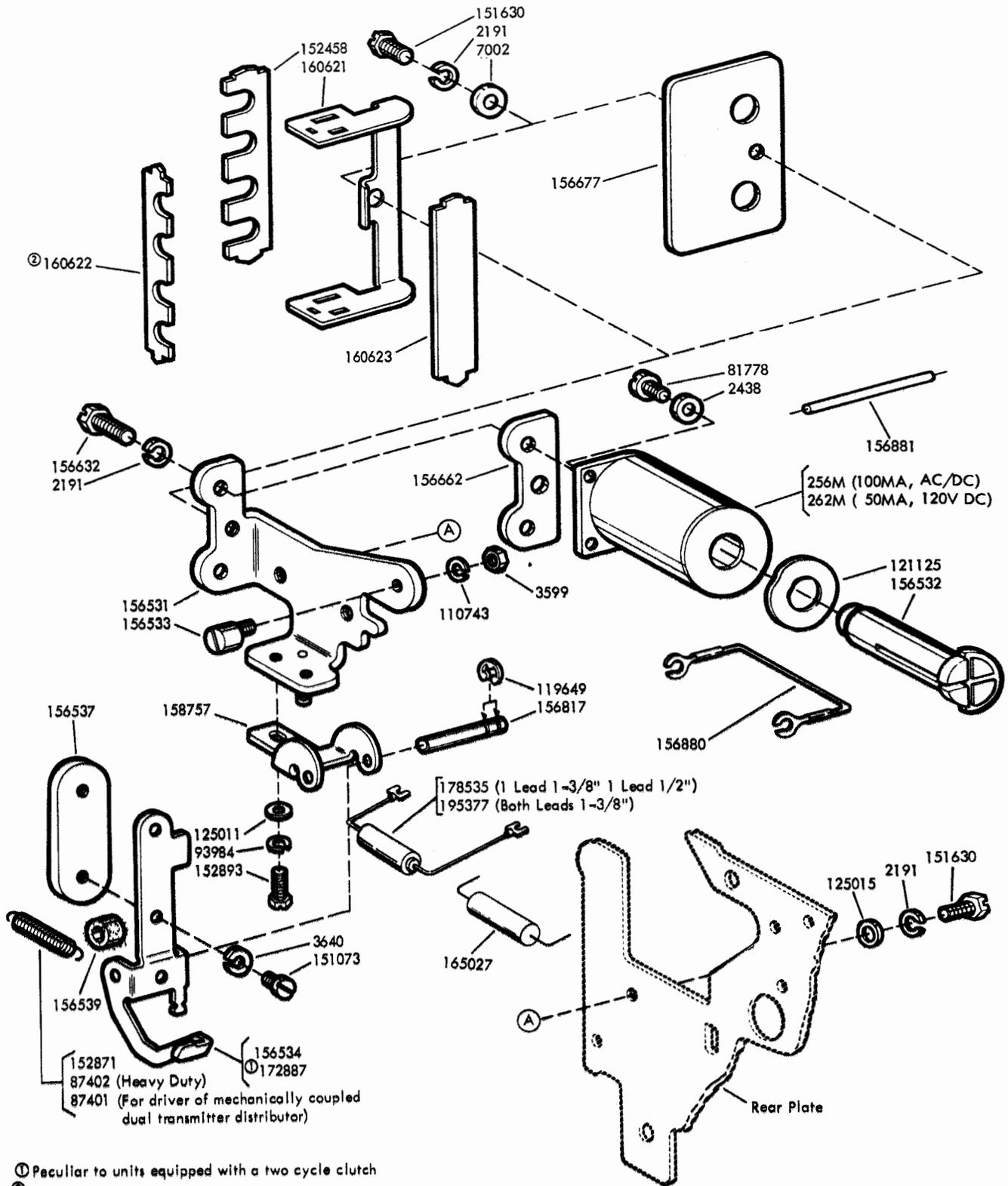
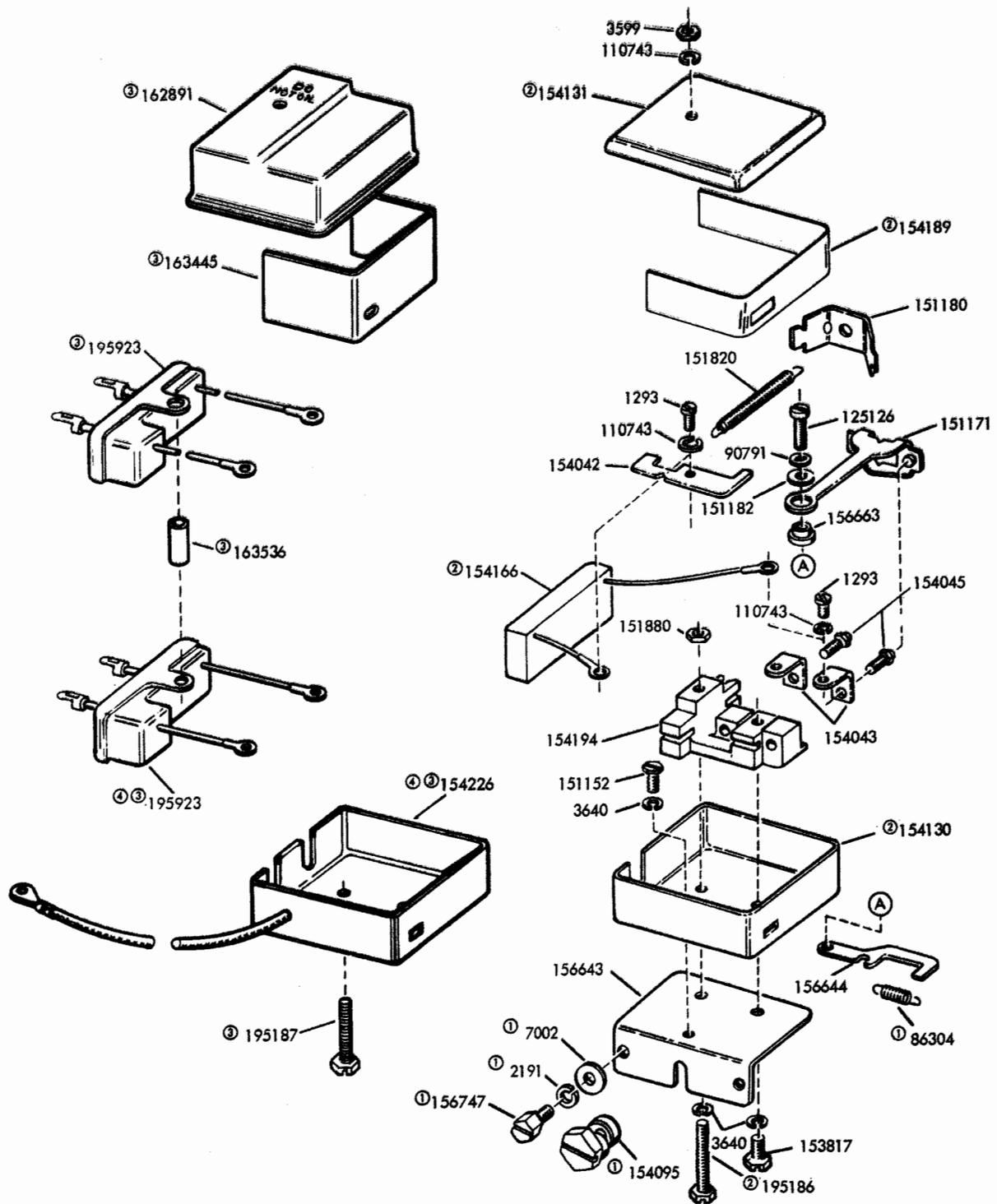


FIGURE 7. REAR PLATE MECHANISM



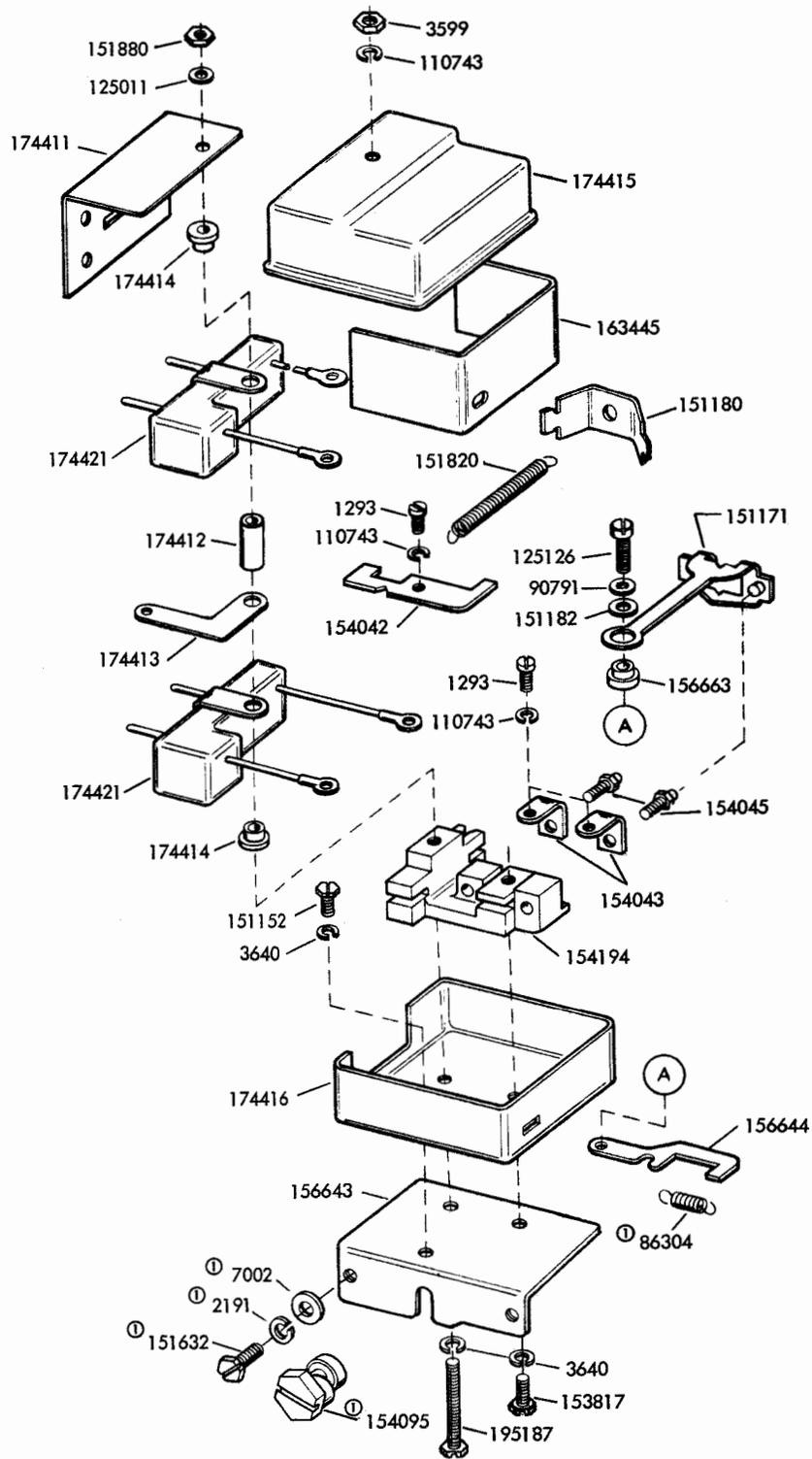
- ① Peculiar to units equipped with a two cycle clutch
- ② Not required if unit is equipped with new style magnet coil with insulated terminals.

FIGURE 8. CLUTCH TRIP MAGNET MECHANISM



- ① Not supplied with Contact Box
- ② Peculiar to 156648 (ARC suppression-neutral transmission)
- ③ Peculiar to 162997 (RF suppression-polar transmission)
- ④ 174491 Modification Kit to Provide R.F. Filter for Signal Generator Contacts. (Specification 500155)

FIGURE 9. 156648 AND 162997 CONTACT BOX ASSEMBLIES



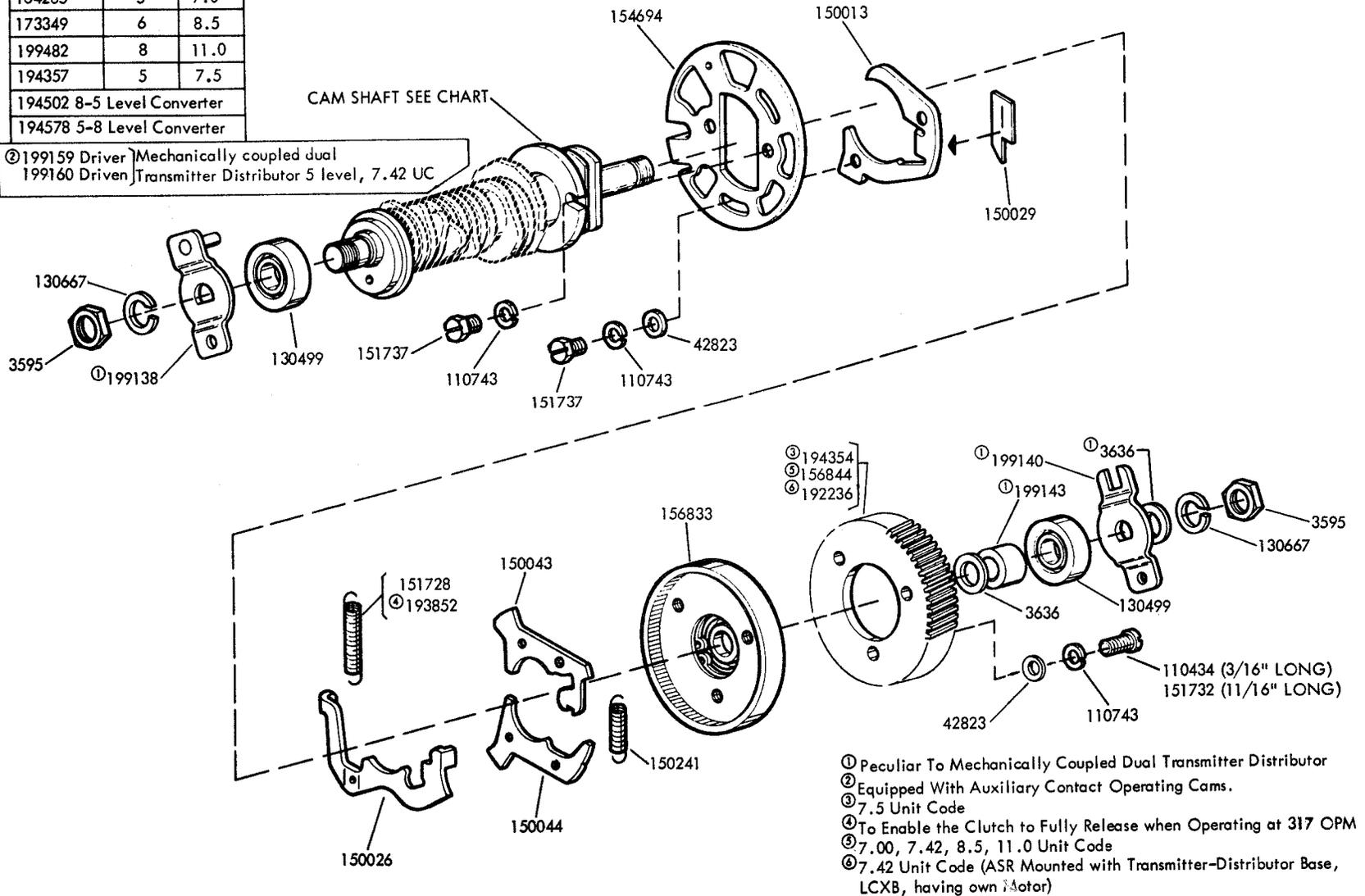
ⓐ Not Part of Contact Box Assembly

FIGURE 10. 174420 CONTACT BOX ASSEMBLY

CAMSHAFTS		
PART NO.	LEVEL	CODE
156836	5	7.42
160016	6	8.5
164285	5	7.0
173349	6	8.5
199482	8	11.0
194357	5	7.5
194502 8-5 Level Converter		
194578 5-8 Level Converter		

② 199159 Driver } Mechanically coupled dual
 199160 Driven } Transmitter Distributor 5 level, 7.42 UC

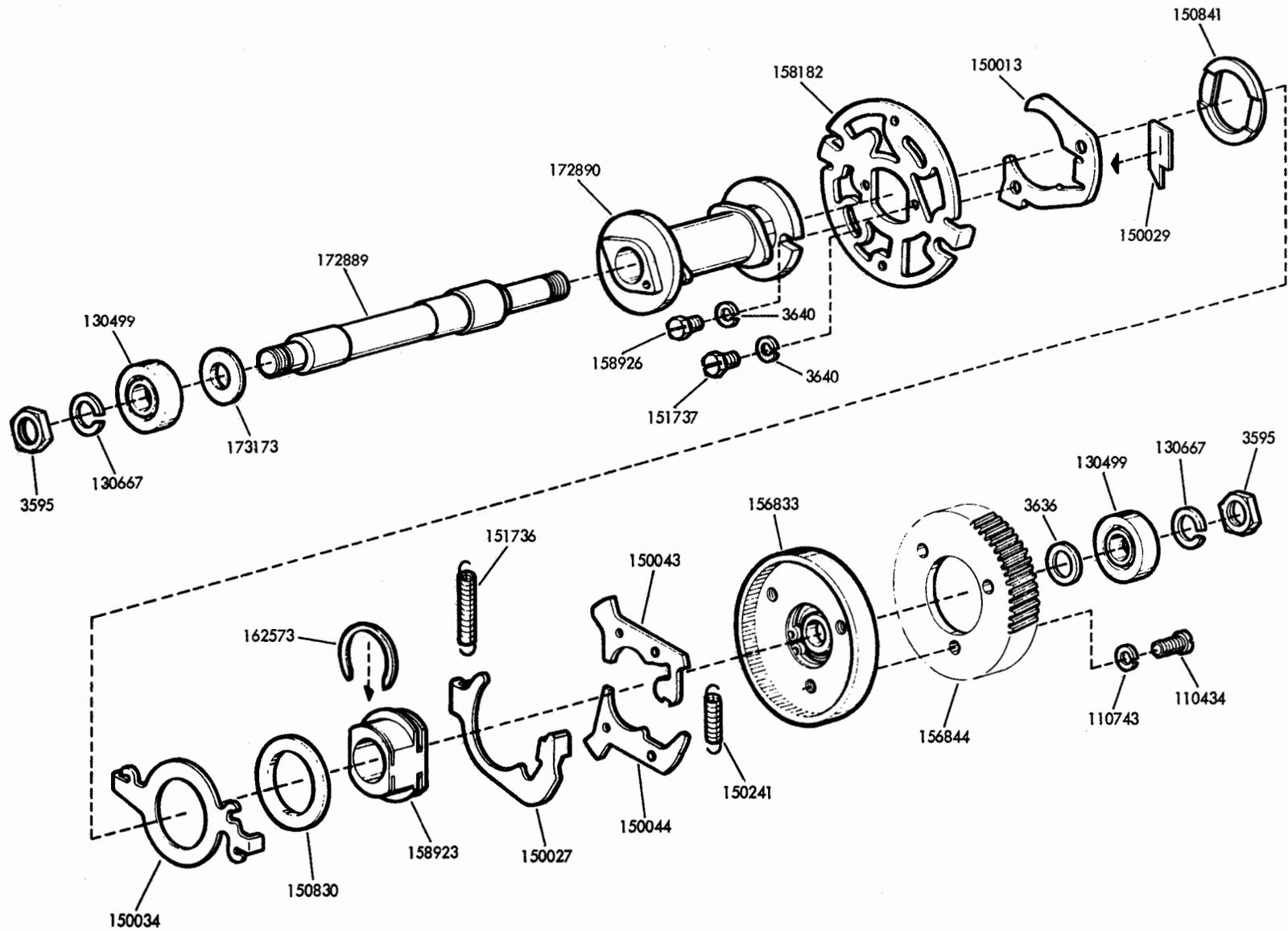
CAM SHAFT SEE CHART



- ① Peculiar To Mechanically Coupled Dual Transmitter Distributor
- ② Equipped With Auxiliary Contact Operating Cams.
- ③ 7.5 Unit Code
- ④ To Enable the Clutch to Fully Release when Operating at 317 OPM
- ⑤ 7.00, 7.42, 8.5, 11.0 Unit Code
- ⑥ 7.42 Unit Code (ASR Mounted with Transmitter-Distributor Base, LCXB, having own Motor)

FIGURE 11. MAIN SHAFT MECHANISM-1 CYCLE

FIGURE 12. MAIN SHAFT MECHANISM-2 CYCLE



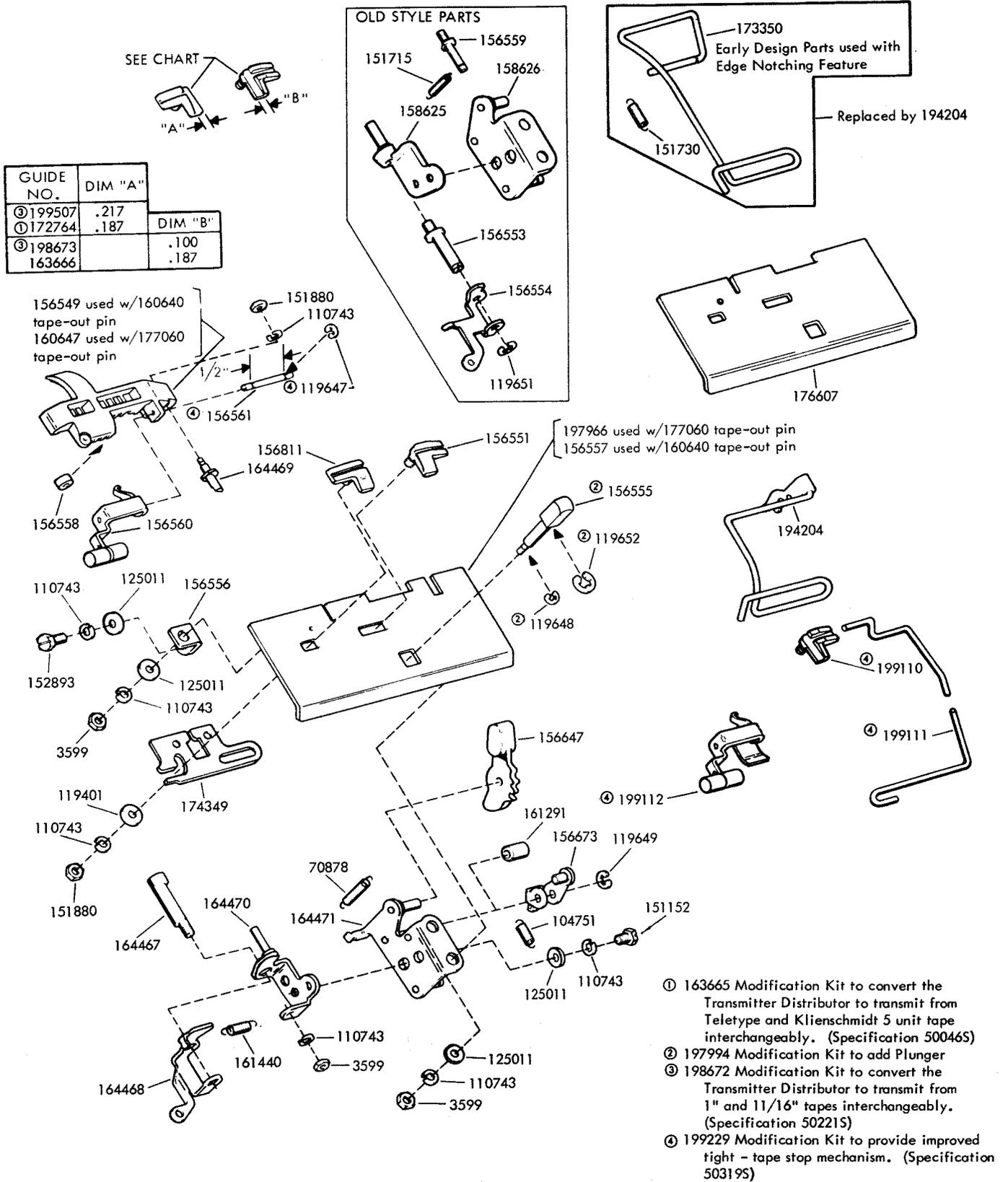
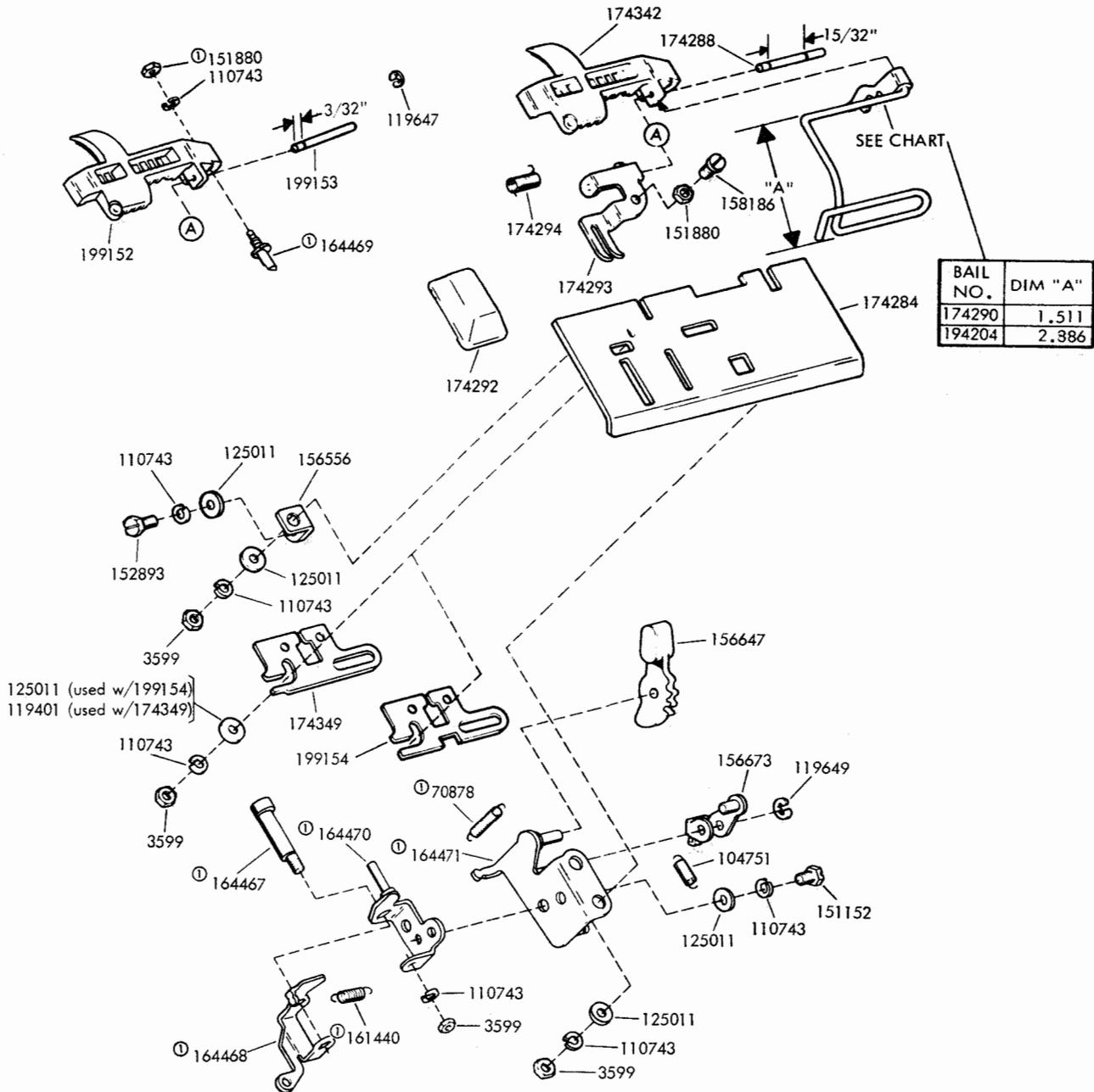


FIGURE 13. TAPE GUIDE PLATE MECHANISMS



① 164472 Modification Kit to equip transmitter distributors with improved tape lid latch mechanism. (Specification 500455)

FIGURE 14. TAPE GUIDE PLATE MECHANISMS

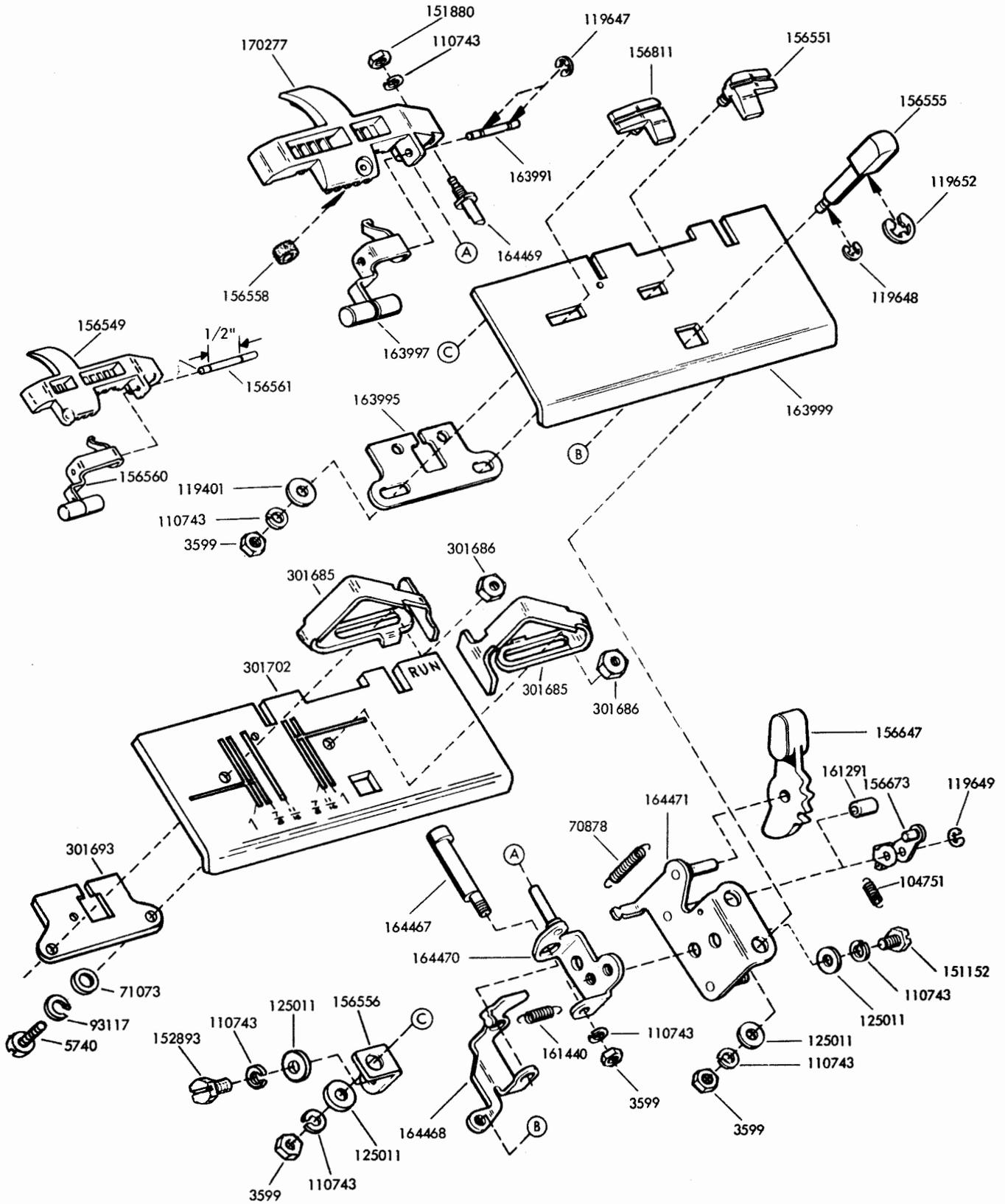
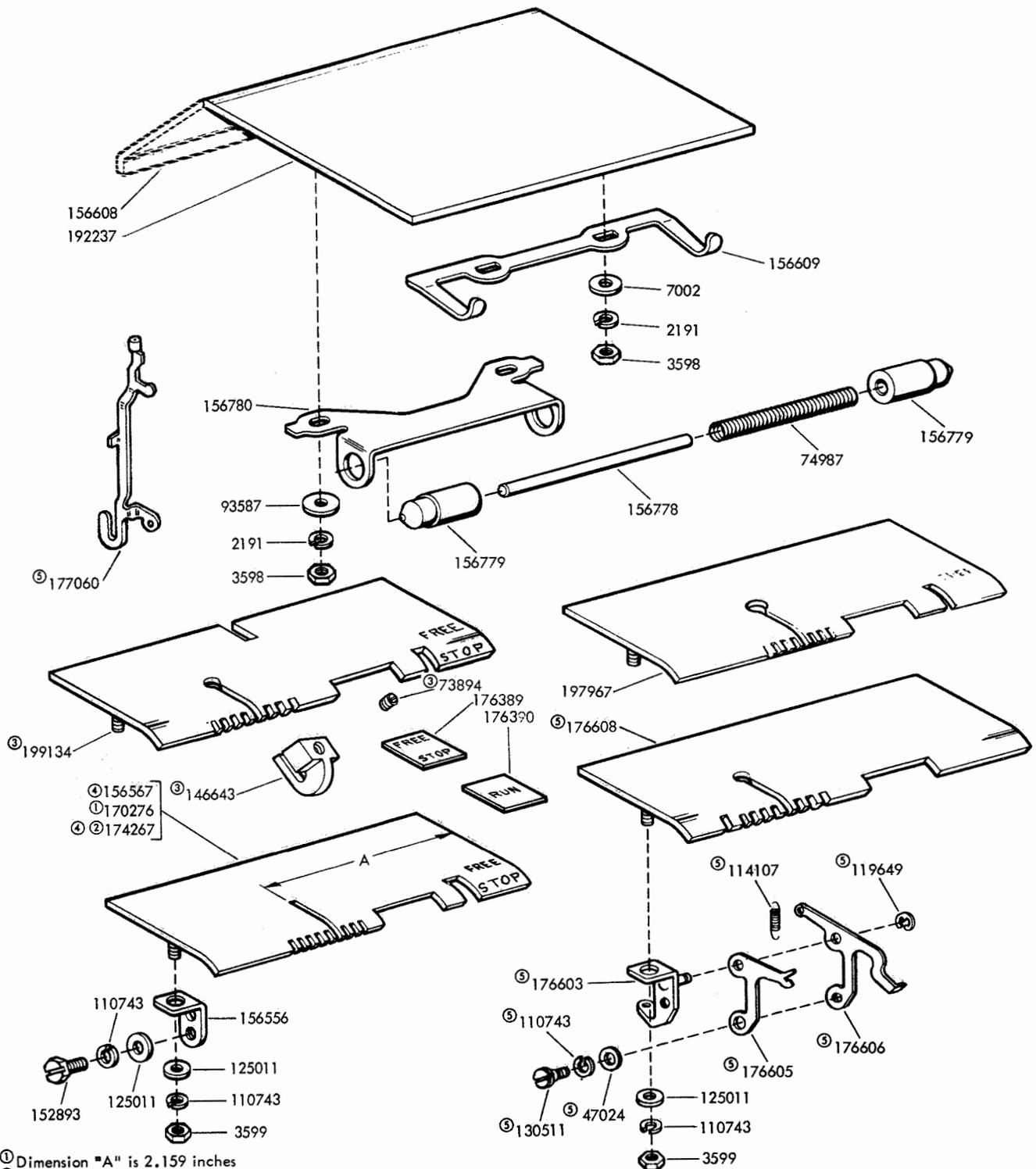


FIGURE 15. TAPE GUIDE PLATE MECHANISMS



- ① Dimension "A" is 2.159 inches
- ② Peculiar to units equipped to detect a notch in edge of tape
- ③ Peculiar to mechanically coupled dual transmitter distributor
- ④ Dimension "A" is 2.359 inches
- ⑤ 174309 Modification Kit to convert an LXD4 to an LXD15. Also includes 176607, 174349 and 160647 as shown on Figure 13. (Specification 500875)

FIGURE 16. COVER AND TOP PLATES

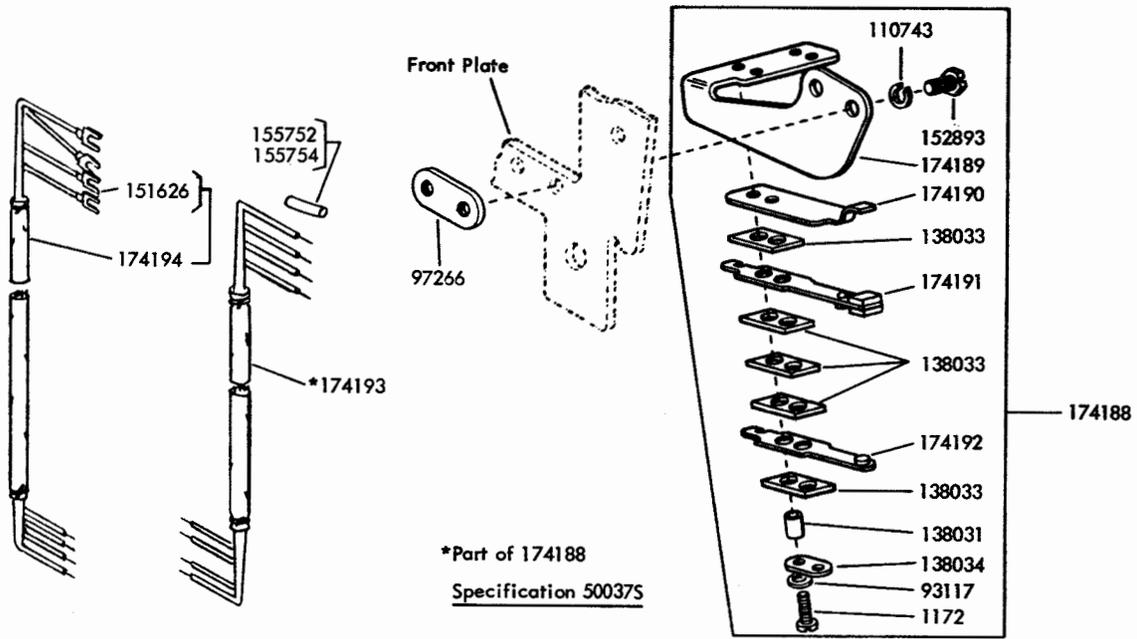


FIGURE 17. 174195 MODIFICATION KIT TO PROVIDE START-STOP CONTACTS

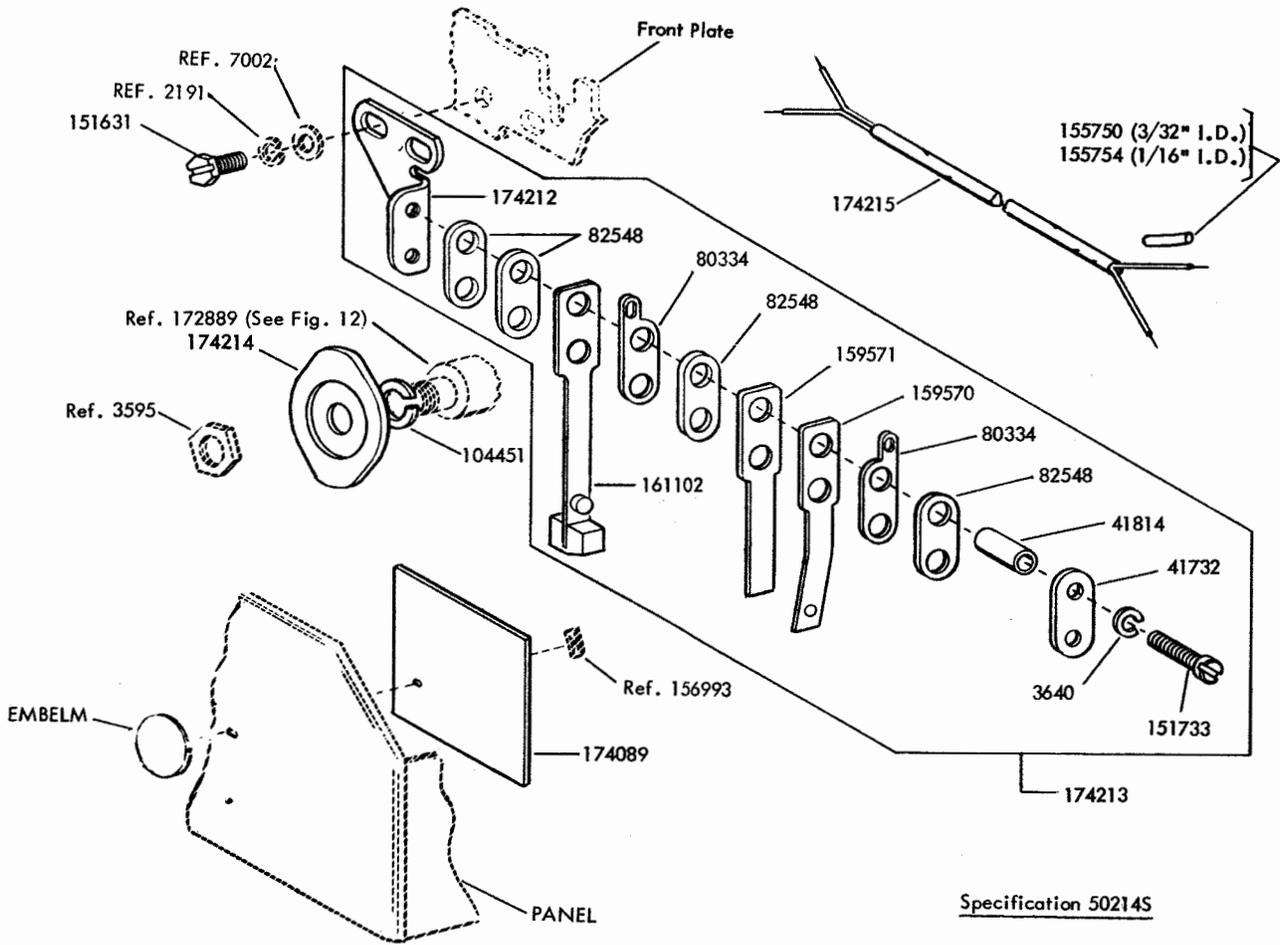


FIGURE 18. 174211 MODIFICATION KIT TO PROVIDE MAGNET RELEASE CONTACTS

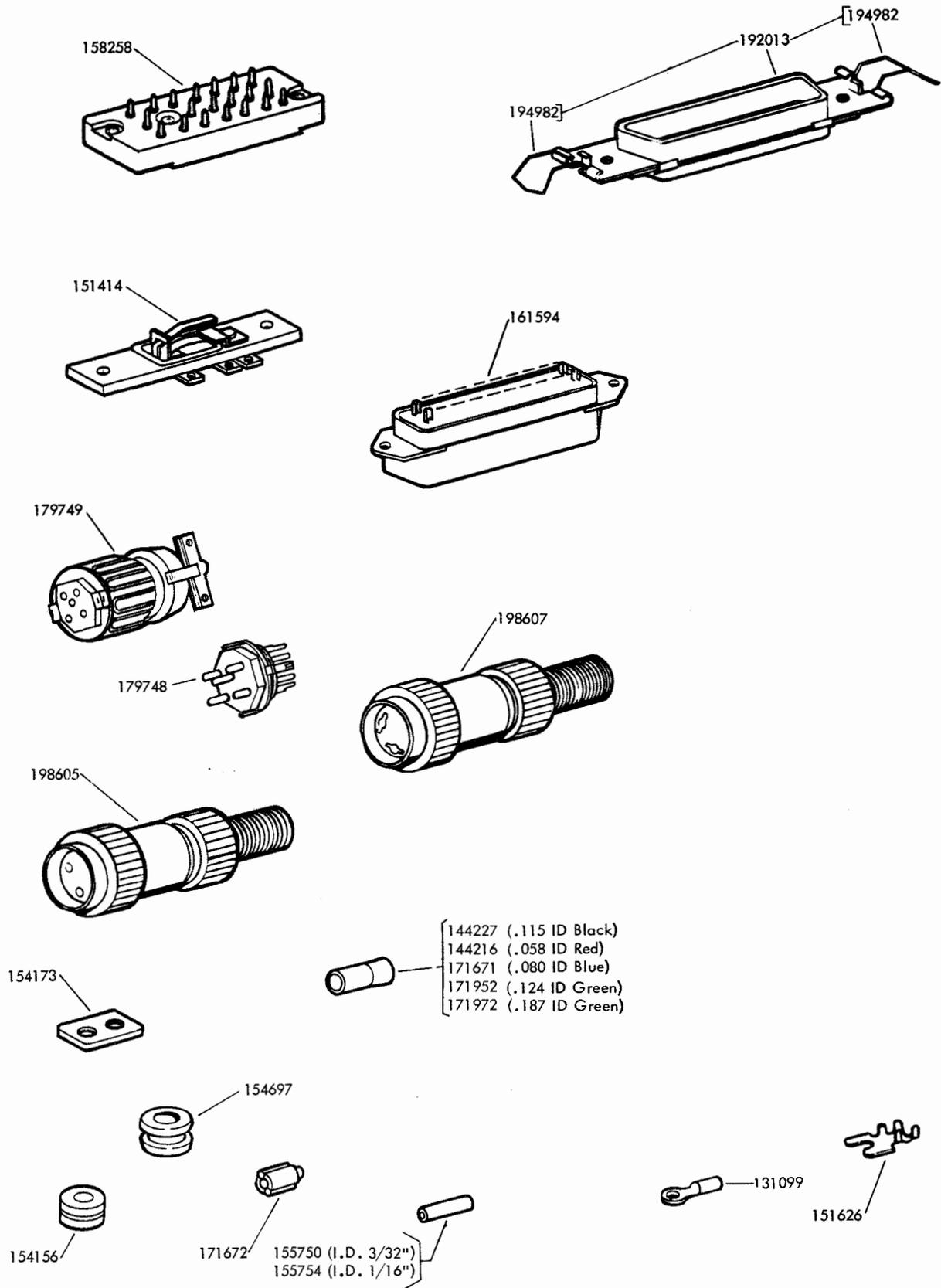


FIGURE 19. CABLE COMPONENTS

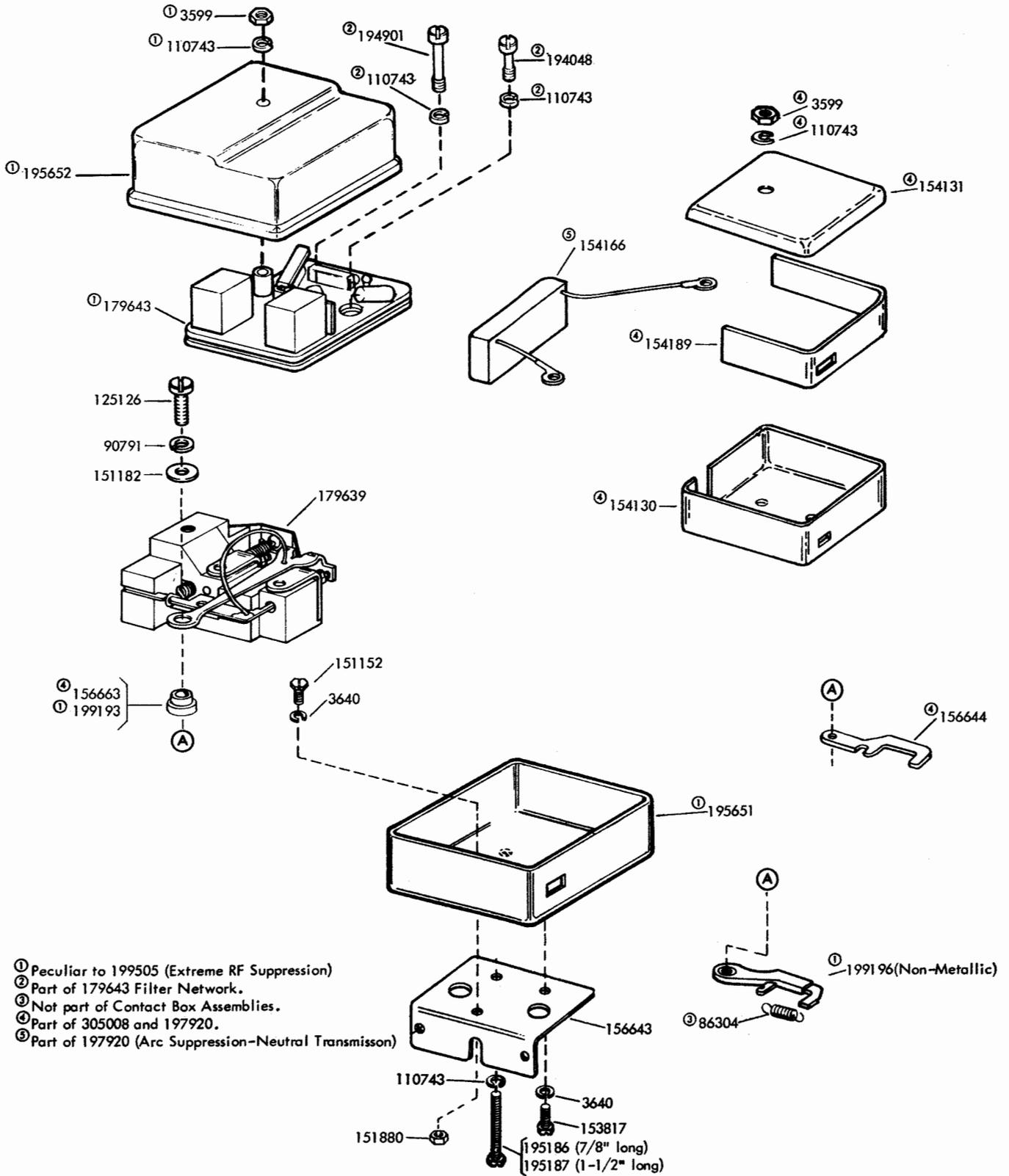


FIGURE 20. 197920, 198610, 199505 AND 305008 CONTACT BOX ASSEMBLIES WITH GOLD PLATED CONTACTS

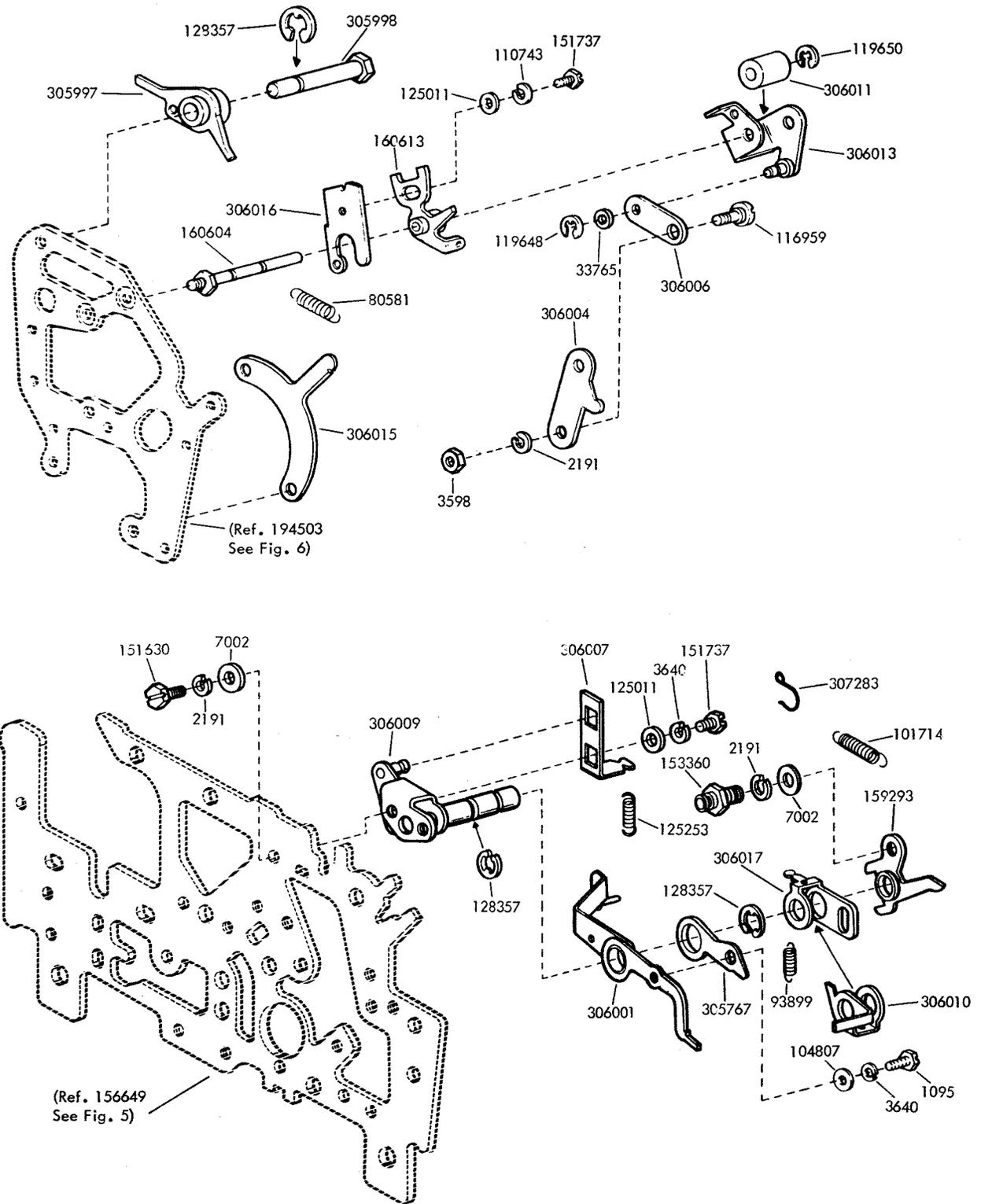


FIGURE 22. TAPE-OUT MECHANISM FOR MECHANICALLY COUPLED DUAL TRANSMITTER DISTRIBUTOR

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
256M	Coil, Magnet 9	91904	Washer, Flat 3	146643	Block, Stop 17
262M	Coil, Magnet 9	93117	Washer, Lock 16, 18, 21	150013	Disk, Adjusting 12, 13
270M	Coil, Magnet 21	93118	Washer, Lock 3, 6	150026	Lever, Shoe Release 12
1030	Screw, Shoulder (6-40) 2	93356	Washer, Felt 6, 7	150027	Lever, Shoe Release 13
1095	Screw (4-40 x 5/32 Hex) 22	93587	Washer, Flat 3, 8, 17	150029	Wick, Felt 12, 13
1172	Screw (2-56 x 5/16 Fil) 18	93899	Spring 2, 22	150034	Disk, Clutch (2 Stop) 13
1293	Screw (4-40 x 1/8 Fil) 10, 11	93984	Washer, Lock 9	150043	Shoe, Secondary Clutch 12, 13
2191	Washer, Lock 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 17, 21, 22	97266	Plate, Clamp 18	150044	Shoe, Primary Clutch 12, 13
2438	Washer, Flat 9	101386	Spring 2	150089	Screw (4-40 x 1/2 Fil) 21
2605	Spring 7	101714	Spring 7, 22	150241	Spring 12, 13
2669	Washer, Lock 3, 8, 21	101998	Bushing, Shoulder 3	150830	Bushing, Shoulder 13
2836	Spring 8	102994	Washer, Flat 2	150841	Bearing 13
3595	Nut (1/4-32 Hex) 12, 13	104451	Washer, Lock 18	151073	Screw (4-40 x 5/32 Fil) 3, 7, 9
3598	Nut (6-40 Hex) 2, 3, 4, 5, 6, 7, 8, 17, 22	104751	Spring 14, 15, 16	151103	Spring 2, 5
3599	Nut (4-40 Hex) 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 20, 21	104807	Washer, Flat 22	151152	Screw (4-40 x 3/16 Hex) 4, 5, 7, 10, 11, 14, 15, 16, 20
3606	Nut (6-40 Hex) 2, 7	108867	Shim (.002" Thk) 21	151171	Toggle, Contact 10, 11
3636	Washer, Flat 12, 13	110434	Screw (4-40 x 3/16 Fil) 12, 13	151180	Link, Toggle 10, 11
3640	Washer, Lock 3, 4, 5, 6, 9, 10, 11, 13, 18, 20, 21, 22	110435	Nut (4-40 Hex) 4	151182	Washer, Insulating 10, 11, 20
3649	Washer, Flat 8	110743	Washer, Lock 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22	151395	Spring 8
5740	Screw (2-56 x 1/4 Fil) 16	111640	Screw (2-56 x 7/32 Fil) 6	151398	Spring 4, 5
7002	Washer, Flat 2, 3, 4, 6, 8, 9, 10, 11, 17, 22	112626	Nut (10-32 Hex) 3, 8	151414	Switch, Sensitive 19
7603	Spring 2, 6	114107	Spring 17	151626	Terminal 7, 18, 19
8896	Shim (.004" Thk) 4, 5	115141	Screw, Shoulder (6-40) 7	151630	Screw (6-40 x 1/4 Hex) 3, 5, 6, 7, 8, 9, 22
31636	Spring 3	115221	Washer, Felt 2, 5	151631	Screw (6-40 x 5/16 Hex) 3, 8, 18
33765	Washer, Flat 22	116959	Screw, Eccentric Shoulder (6-40) 22	151632	Screw (6-40 x 3/8 Hex) 2, 3, 6, 8, 11
41732	Plate, Clamp 4, 8, 18	118177	Resistor 4	151637	Screw (4-40 x 1/4 Fil) 5
41746	Bushing, Insulating 4	119401	Washer, Flat 14, 15, 16	151685	Screw (4-40 x 5/16 Fil) 4
41814	Bushing, Insulating 18	119647	Ring, Retaining 4, 5, 7, 14, 15, 16	151688	Screw (4-40 x 5/8 Fil) 4
42823	Washer, Flat 12	119648	Ring, Retaining 3, 6, 14, 16, 22	151689	Screw (4-40 x 3/4 Fil) 4
45024	Spring 7	119649	Ring, Retaining 7, 9, 14, 15, 16, 17	151692	Screw (6-40 x 3/16 Fil) 2, 8
45815	Washer, Lock 2	119650	Ring, Retaining 7, 22	151701	Spring, Torsion 21
47024	Washer, Flat 17	119651	Ring, Retaining 3, 14	151715	Spring 14
70073	Nut (3-48 Hex) 3	119652	Ring, Retaining 2, 4, 5, 7, 8, 14, 16	151722	Screw (6-40 x 3/16 Hex) 2, 3, 6, 8
70388	Spring 2	121125	Washer, Spring 9	151728	Spring 12
70878	Spring 14, 15, 16	121244	Clamp, Cable (1/4" ID) 8	151730	Spring 14
71073	Washer, Flat 16	124177	Washer, Lock 2, 7	151732	Screw (4-40 x 11/32 Fil) 12
73894	Screw (6-40 Set) 17	125011	Washer, Flat 3, 4, 5, 6, 7, 9, 11, 14, 15, 16, 17, 22	151733	Screw (4-40 x 9/16 Fil) 8, 18
74728	Terminal, Contact 4	125015	Washer, Flat 9	151736	Spring 13
74987	Spring, Compression 17	125112	Screw (2-56 x 1/8 Fil) 21	151737	Screw (4-40 x 11/64 Hex) 3, 12, 13, 22
76168	Screw (6-40 x 3/16 Hex) 21	125126	Screw (2-56 x 9/32 Fil) 10, 11, 20	151820	Spring, Contact 10, 11
76275	Plate, Nut 3	125229	Nut (6-32 Hex) 3	151880	Nut (4-40 Hex) 4, 5, 10, 11, 14, 15, 16, 20
76295	Spring 6	125253	Spring 22	152458	Shield, Terminal 9
76422	Spring 7	125802	Washer, Flat 8	152871	Spring 2, 9
76461	Washer, Flat 3	128357	Ring, Retaining 3, 6, 22	152893	Screw (4-40 x 1/4 Hex) 4, 5, 6, 8, 9, 14, 15, 16, 17, 18
78557	Spring 4, 5	130314	Screw (6-40 x 21/64 Flat) 21	153360	Stud 22
80334	Terminal, Contact 18	130499	Bearing, Ball 12, 13	153537	Screw (6-40 x 9/32 Hex) 3
80531	Washer, Flat 2	130511	Screw (4-40 x 11/64 Fil) 17	153799	Screw (4-40 x 21/64 Hex) 4, 5
80581	Spring 22	130667	Washer, Lock 12, 13	153817	Screw (4-40 x 3/8 Hex) 10, 11, 20
80945	Spring 4, 5	130683	Washer, Lock 4, 5	153819	Washer, Lock 3
81778	Screw (4-40 x 3/16 Fil) 9	131099	Terminal 19	154040	Lever, Transfer 2, 5
82547	Insulator (.094" Thk) 8	131744	Pin 21	154042	Terminal 10, 11
82548	Insulator (.062" Thk) 4, 8, 18	138031	Wick, Felt 21	154043	Terminal 10, 11
85318	Washer, Leather 8	138033	Bushing, Insulating 18	154045	Screw (6-40 Spl) 10, 11
86283	Spring 2	138034	Insulator (.031" Thk) 18	154095	Eccentric, Contact Box 10, 11
86304	Spring 10, 11, 20	144216	Plate, Clamp 3, 6, 18	154130	Box, Contact 10, 20
86959	Bushing, Insulating 8	144227	Connector, Insulated (Red) 19	154131	Cover, Contact 10, 20
87401	Spring 9	145779	Connector, Insulated (Black) 19	154156	Grommet, Rubber 19
87402	Spring 9	145798	Post, Spring 7	154166	Suppressor, Arc 10, 20
90361	Washer, Felt 21		Pawl 7		
90573	Spring 2				
90791	Washer, Lock 10, 11, 20				
91120	Spring 3				

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
154173	Plate 19	156598	Post 3, 8	160086	Post, Guide 5
154189	Insulator 10, 20	156599	Plate 8	160087	Post, Spring 7
154194	Base 10, 11	156602	Plate 3	160088	Bail w/Stud 7
154226	Box w/Strap 10	156608	Plate, Cover 17	160089	Post, Stop 5
154335	Screw (6-40 x 9/32 Fil) 4	156609	Plate, Spring 17	160090	Lever, Transfer 5
154349	Spring 2	156618	Post 2	160091	Reservoir Assembly, Oil 8
154694	Disk, Clutch Cam 12	156621	Guide, Transfer Lever 2	160092	Stiffener 8
154697	Grommet, Rubber 19	156622	Post 7	160093	Wick, Leather 8
155494	Spring 25	156623	Washer, Flat 3	160094	Contact Assembly, Auxiliary 4, 5
155750	Sleeve, Insulating (3/32 ID x 1/2" Lg) 4, 5, 18, 19	156624	Post 2	160095	Bracket 4
155752	Sleeve, Insulating (5/64 ID x 1/2" Lg) 18	156625	Bracket 2	160096	Bracket w/Bushing 5
155754	Sleeve, Insulating (1/16 ID x 1/2" Lg) 4, 5, 18, 19	156631	Washer, Felt 2, 5	160097	Contact Assembl', 5
155755	Sleeve, Insulating (11/64 ID x 5/8" Lg) 3, 21	156632	Screw (6-40 x 13/32 Hex) 9	160398	Spring, Contact 8
156051	Bushing, Eccentric 21	156633	Washer, Felt 8	160399	Spring, Contact 8
156399	Nut, Shoulder (6-40 Hex) 21	156636	Wheel, Feed 2	160593	Terminal 4, 8
156450	Screw (2-56 x 1/2 Fil) 3, 6	156637	Bail 2	160596	Spring 3
156501	Screw (6-40 x 7/32 Fil) 3	156638	Guide, Transfer Lever 2	160597	Plate 8
156509	Washer, Flat 3	156639	Post 2	160598	Stiffener 8
156510	Post 3	156640	Post 2, 5	160599	Wick, Leather 8
156511	Bail 3	156641	Pin, Sensing 2, 5	160600	Reservoir, Oil 8
156514	Plate w/Studs 3	156644	Bracket 10, 11, 20	160601	Guard 8
156515	Washer, Felt 3	156644	Link, Drive 10, 11, 20	160602	Arm 7
156516	Latch 3	156647	Lever, Start-Stop 14, 15, 16	160604	Post 7, 22
156518	Post 2, 6	156648	Box Assembly, Contact 10	160605	Arm 7
156519	Washer, Felt 2	156649	Plate, Front 2, 6	160606	Arm w/Spring Post 7
156520	Arm 2	156662	Plate 9	160607	Bail 7
156521	Screw, Eccentric Shoulder (4-40) 2	156663	Insulator 10, 11, 20	160608	Bracket, Contact 8
156522	Pawl 2	156668	Screw (6-40 Spl) 7	160613	Arm w/Hub 7, 22
156523	Stud, Eccentric 2	156673	Bail w/Stud 14, 15, 16	160615	Reservoir Assembly 8
156524	Bail 2	156677	Plate, Insulator 9	160616	Plate 7
156531	Bracket w/Post 9	156747	Screw (6-40 x 19/64 Hex) 10	160621	Bracket 9
156532	Core 9	156773	Modification Kit 7	160622	Guide 9
156533	Screw, Eccentric (4-40) 9	156777	Jumper (2" Black) 7	160623	Shield 9
156534	Bail 2, 9	156778	Rod 17	160625	Clip w/Wick 3
156537	Armature 9	156779	Plunger 17	160626	Insulator (.031" Thk) 3, 6
156539	Washer, Felt 9	156780	Bracket, Detent 17	160627	Bushing, Insulating 3, 6
156549	Lid, Tape 14, 16	156782	Nut (6-40 Spl) 3, 8	160628	Spring, Contact 3, 6
156551	Guide, Right 14, 16	156811	Guide, Left 14, 16	160629	Bracket, Contact 3
156553	Post, Eccentric 14	156817	Shaft 9	160630	Spring, Contact 3, 6
156554	Bail 14	156831	Clamp 3	160631	Spring, Contact 3, 6
156555	Plunger, Tape Lid 14, 16	156832	Plate 3	160632	Contact Assembly 3
156556	Bracket 14, 15, 16, 17	156833	Drum Assembly, Clutch 12, 13	160634	Post 7
156557	Plate, Tape Guide 14	156836	Camshaft 12	160635	Bail 7
156558	Washer, Felt 14, 16	156844	Gear (40T) 12, 13	160638	Bracket, Spring 3
156559	Post 14	156880	Jumper (2-3/8" Black) 9	160639	Contact Assembly 8
156560	Bail 14, 16	156881	Jumper (1-1/2" Black) 9	160640	Pin, Tape Out Sensing 2, 14
156561	Shaft 14, 16	157240	Spring 6	160647	Lid, Tape 14, 17
156567	Plate, Top 17	158182	Disk, Clutch Cam 13	161100	Spring, Contact 4
156574	Post, Spring 7	158186	Screw (4-40 x 7/32 Fil) 15	161102	Spring, Contact 4, 18
156575	Screw, Eccentric Shoulder (6-40) 7	158258	Connector, Plug (20 Pt) 19	161117	Spring 7
156576	Washer, Felt 8	158625	Bracket w/Stud 14	161291	Bushing 14, 16
156577	Roller, Detent Lever 7	158626	Bracket w/Studs 14	161439	Wick, Felt 8
156578	Bail w/Stud 7	158757	Hinge, Mounting 9	161440	Spring, 14, 15, 16
156581	Stud 8	158923	Bearing, Sleeve 13	161591	Cable Assembly 3
156588	Ring, Retaining 8	158926	Screw (4-40 x 7/32 Hex) 13	161592	Plate w/Studs 3
156589	Post, Spring 8	159291	Bail 3	161594	Connector, Plug (36 Pt) 19
156590	Latch 2	159292	Bail 3	162249	Screw, Insulating (6-32) 3
156591	Washer, Felt 7, 8	159293	Arm, Extension 3, 22	162462	Modification Kit 3
156594	Lever, Trip 8	159295	Bracket w/Posts 3	162490	Modification Kit 4
156595	Lever, Latch 8	159297	Arm, Stop 3	162491	Cable 4
156596	Bail 8	159298	Spring, Torsion 3	162492	Post, Guide 4
156597	Plate, Rear 8	159312	Wick, Leather 3	162493	Bail 4, 5
		159570	Spring, Contact 4, 18	162498	Screw, Eccentric (4-40) 4, 5
		159571	Stiffener 4, 18	162499	Nut, Shoulder (4-40) 4, 5
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