

HIGH SPEED TAPE PUNCH (BRPE)

PARTS

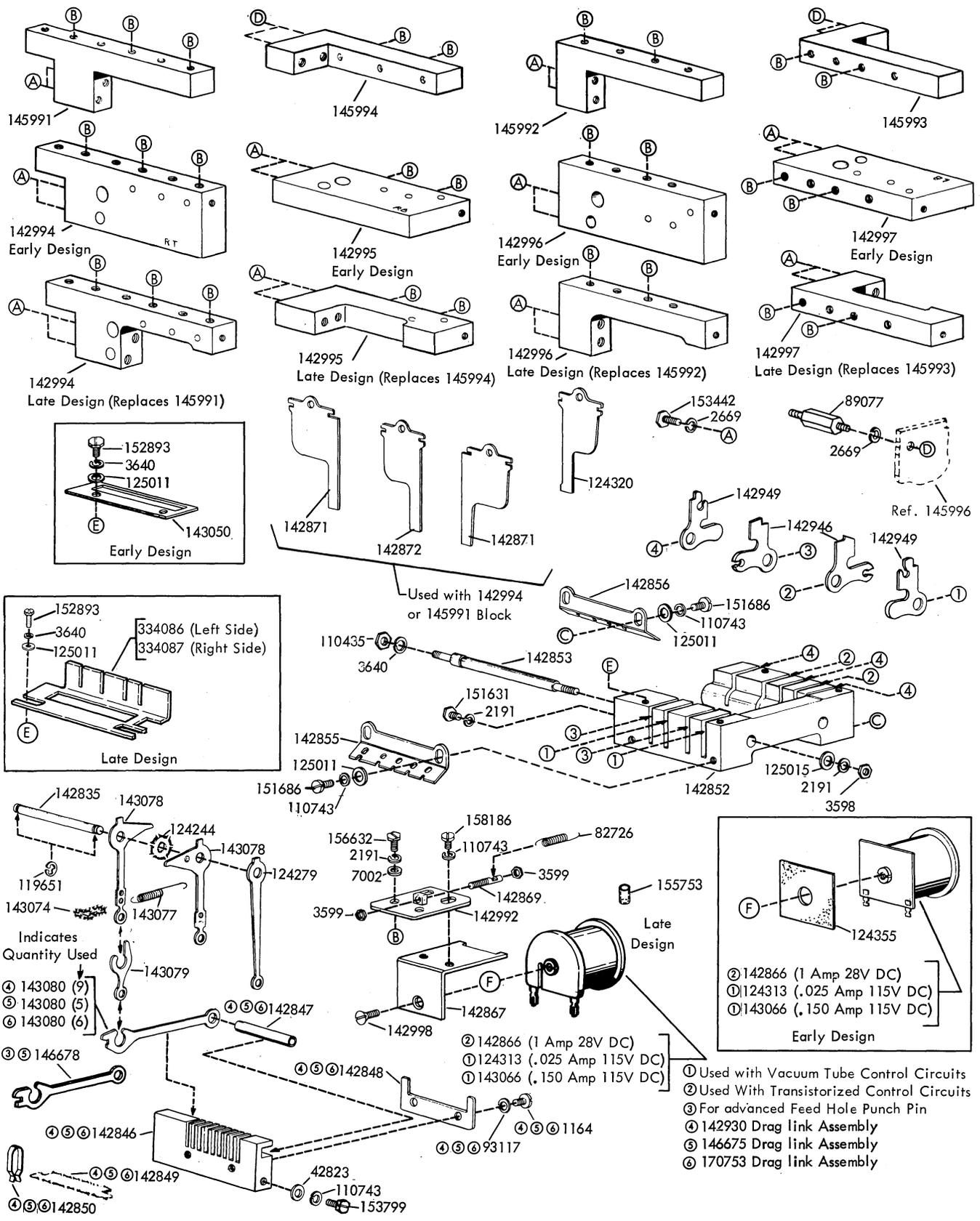
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TELETYPE TO BELL SYSTEM CODE CROSS REFERENCE CHART		
Unit Description	Teletype Code	Bell System Code
Tape Punch	BRPE14 BRPE16	1B 2B
Gearset	145997	1F

The part identification information contained in the following change notices have been incorporated in this issue.

TCN's #738, #739, #1444, #1491

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

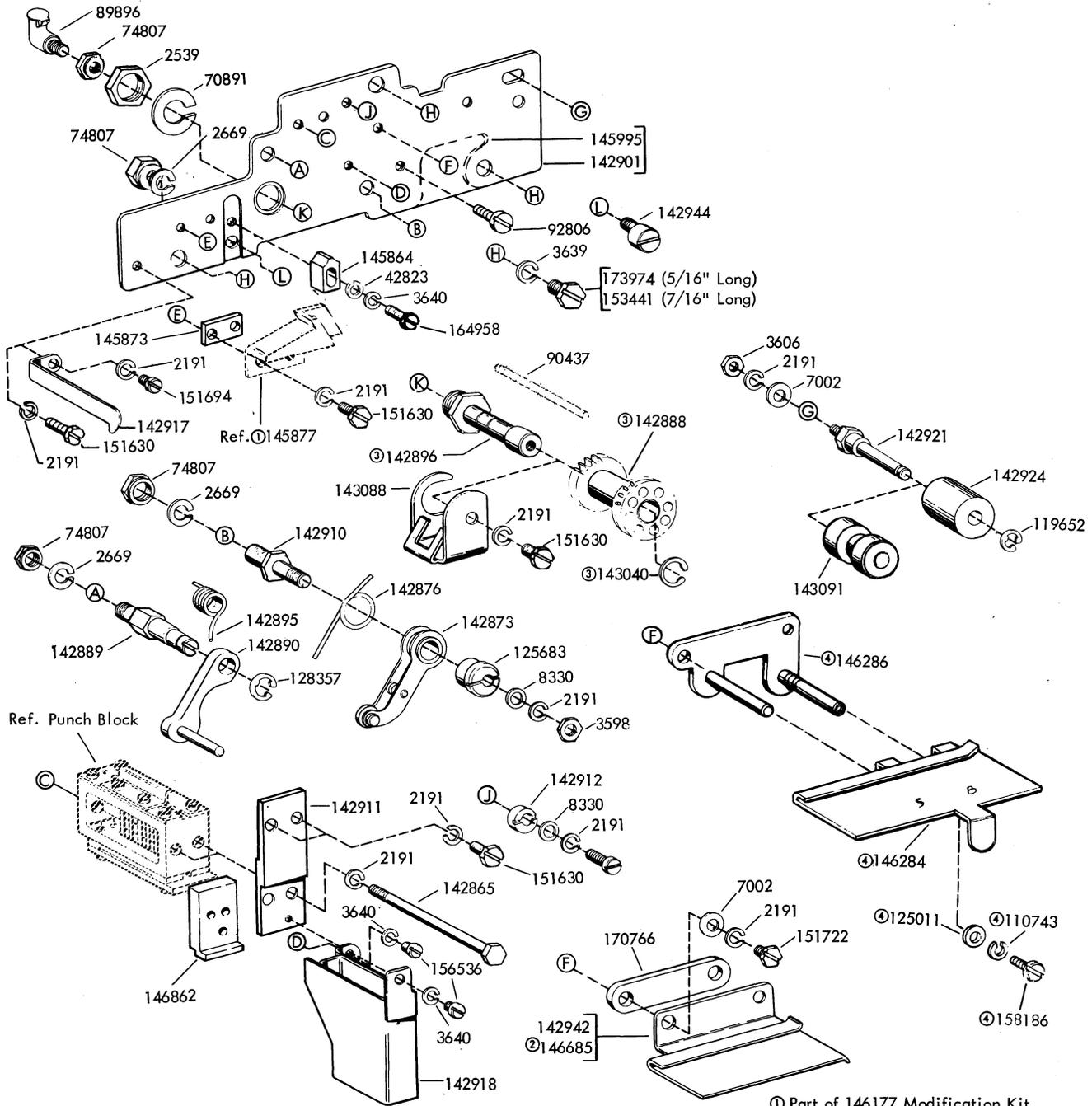


② 142866 (1 Amp 28V DC)
 ① 124313 (.025 Amp 115V DC)
 ① 143066 (.150 Amp 115V DC)

Early Design

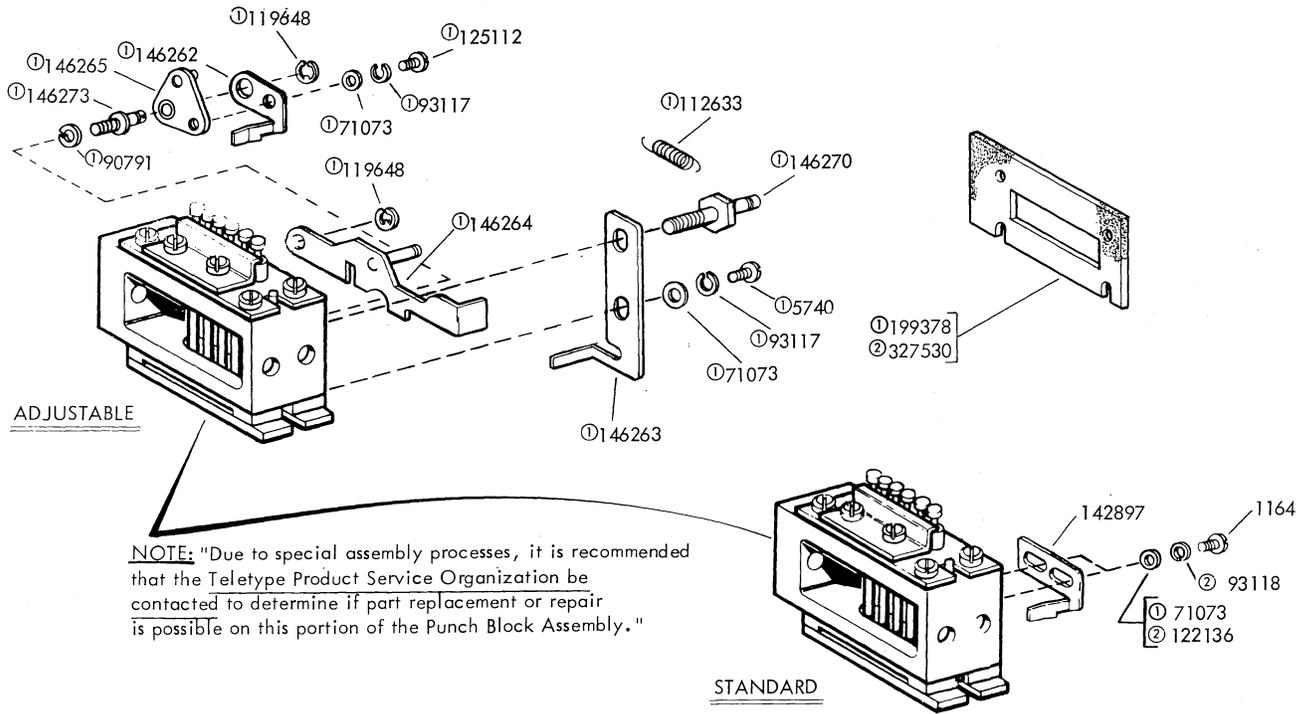
- ① Used with Vacuum Tube Control Circuits
- ② Used With Transistorized Control Circuits
- ③ For advanced Feed Hole Punch Pin
- ④ 142930 Drag link Assembly
- ⑤ 146675 Drag link Assembly
- ⑥ 170753 Drag link Assembly

FIGURE 2. MAGNET AND TOGGLE LINK MECHANISM



- ① Part of 146177 Modification Kit to replace 143045 link (also see page 2)
- ② Used with feed hole centered on 7/8" tape
- ③ 142900 Feed Wheel Assembly
- ④ 146285 Tape Guide Assembly

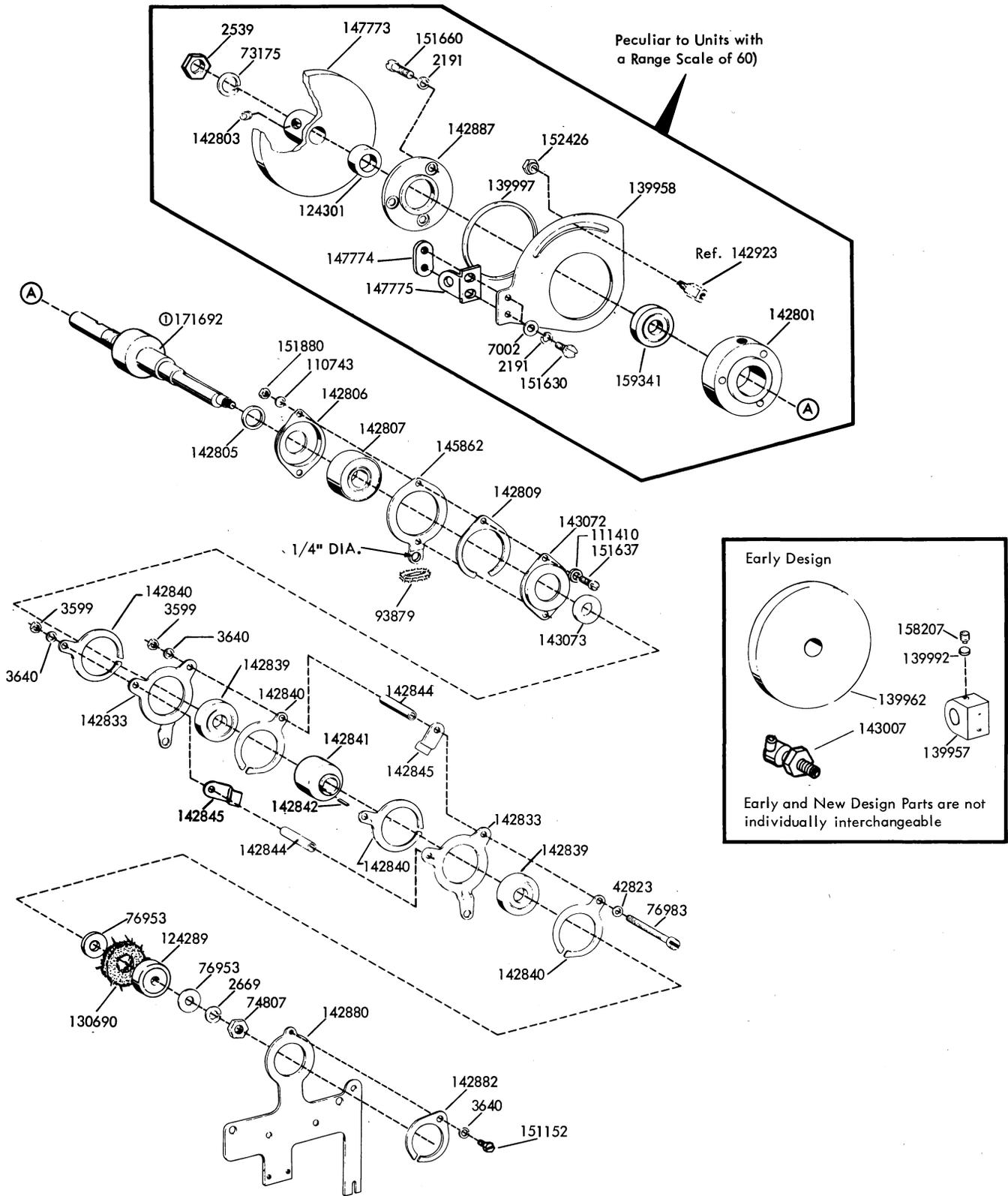
FIGURE 3. PUNCH AND FEED MECHANISM



BLOCK ASSEMBLY NO.	CODE LEVEL	FEED HOLE		BIASING SPRING	NOTES:
		IN LINE	ADVANCED		
143056	6-8	X		142897	7/8" or 1" TAPE
145808	8	X		142897	11/16" TAPE, 0 & 6th PULSE PIN EDGE NOTCHING, 7th PULSE PIN INOPERATIVE
146261	5-8	X		146262	ADJUSTABLE FOR 11/16" OR 1" TAPE
146677	6		X	142897	7/8" TAPE, ADVANCED FEED HOLE CENTERED ON TAPE
147963	6-8	X		142897	7/8" or 1" TAPE
170751	5	X		142897	11/16" TAPE

① Peculiar to 146261 Punch Block Assembly
 ② Peculiar to 146677 Punch Block Assembly

FIGURE 4. PUNCH BLOCK ASSEMBLIES



ⓐ Accepts driven Gear mounted with slotted Hub, torque tightened. (Belt Driven)

FIGURE 5. MAIN SHAFT

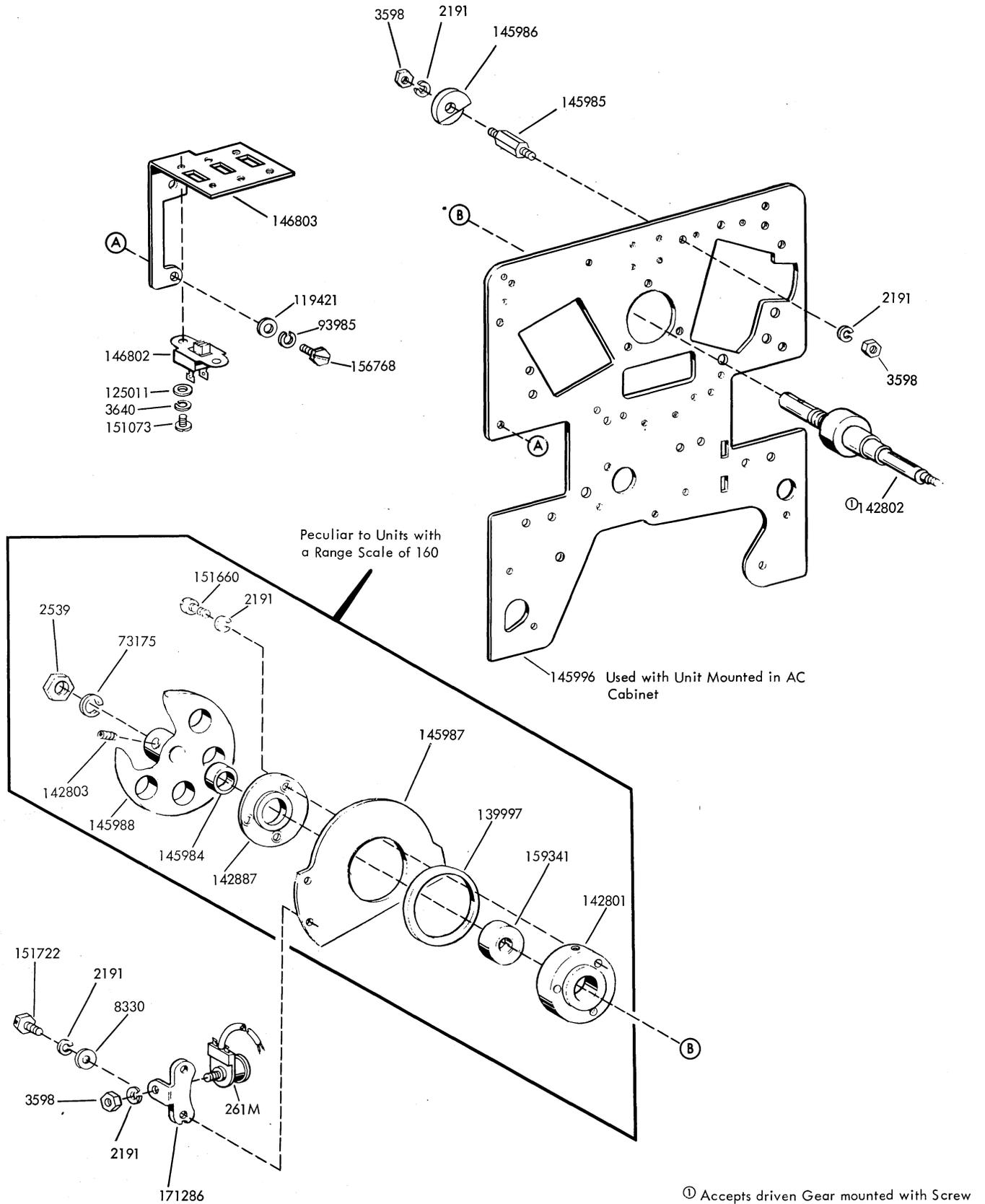
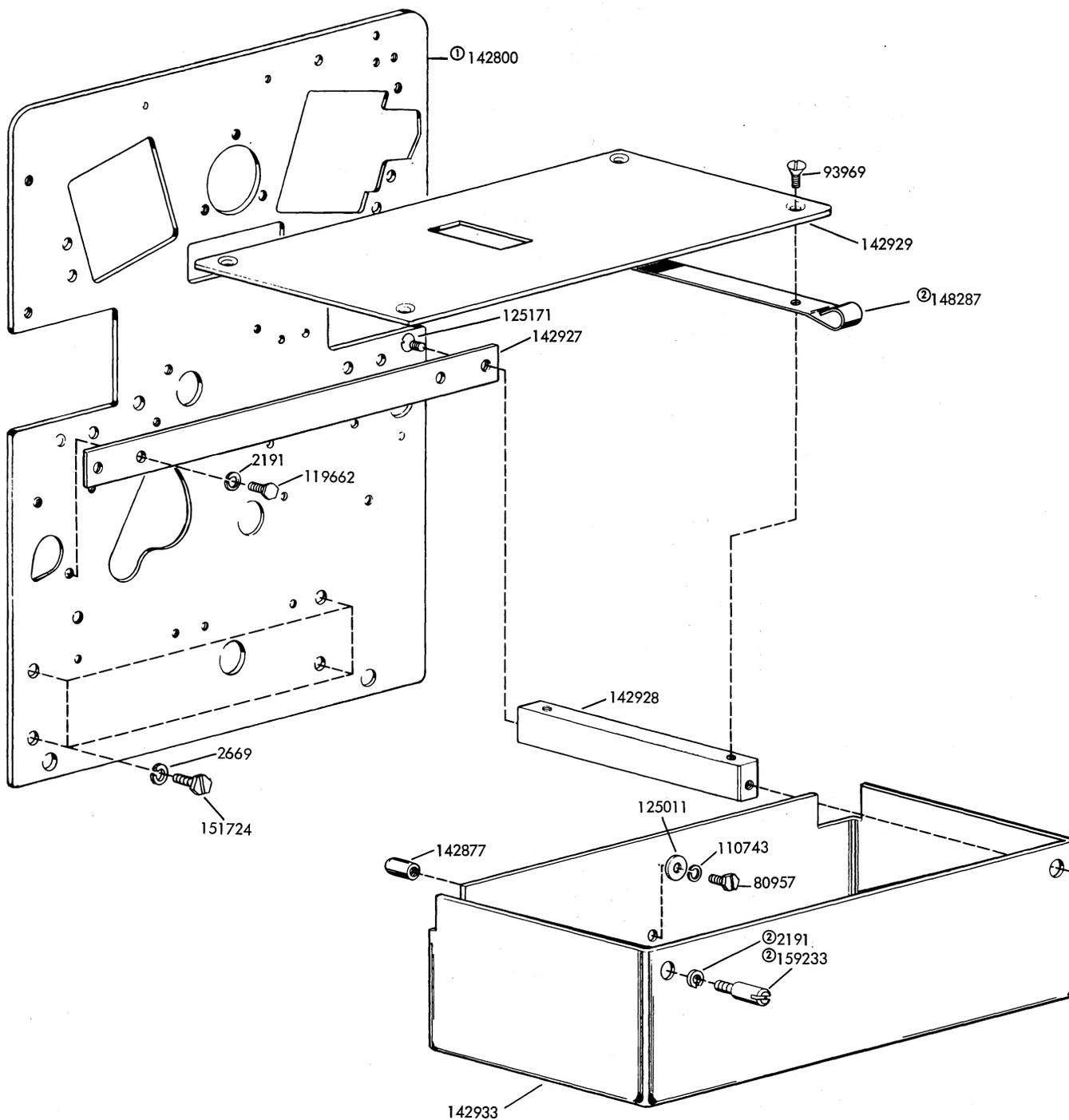


FIGURE 6. REAR PLATE AND MAGNET PICK-UP



Specification 50168S

- ①Used with Self-Contained Sets.
- ②148288 Modification Kit to provide improved mounting for Chad Box

FIGURE 7. CHAD BOX

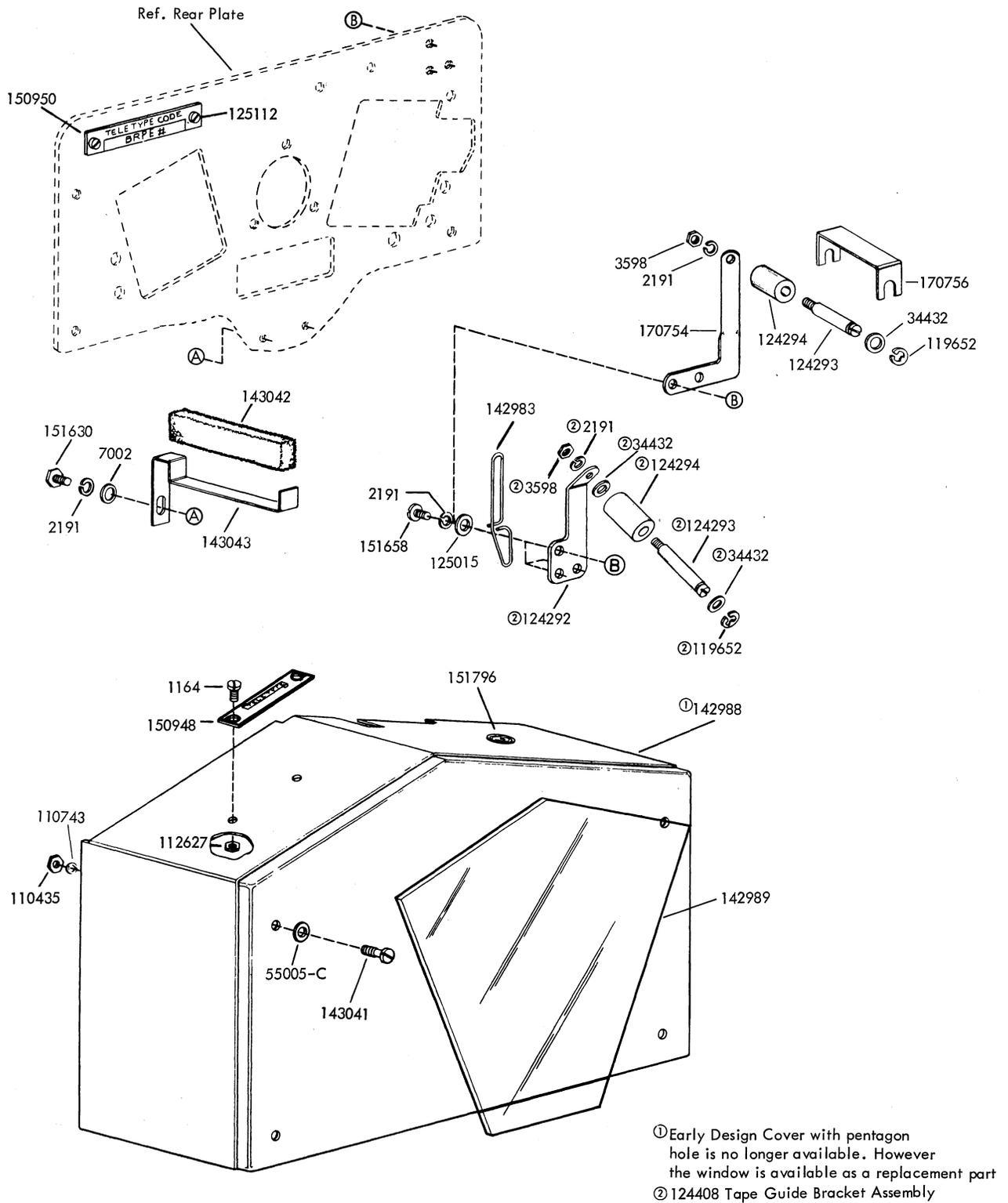
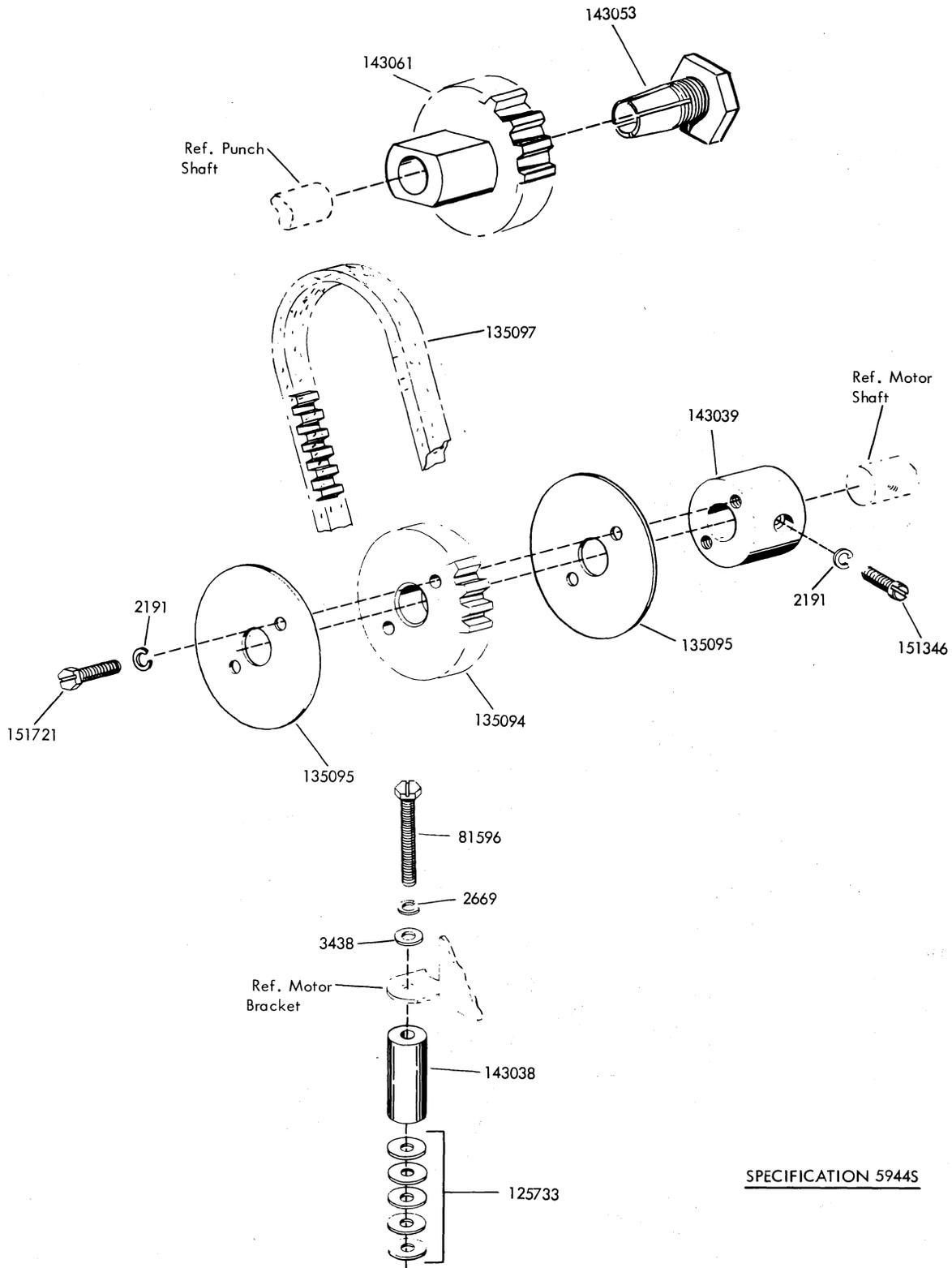
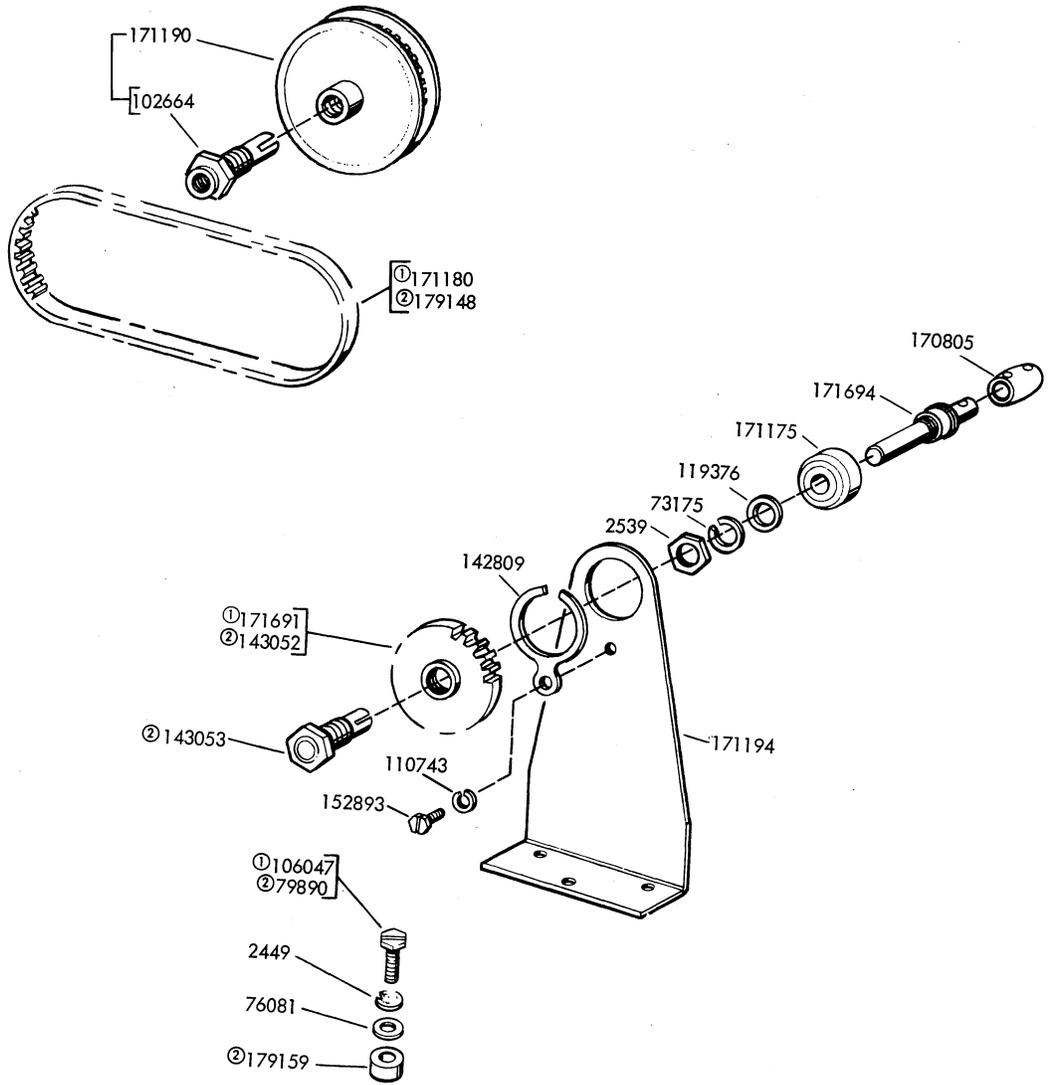


FIGURE 8. FRONT COVER



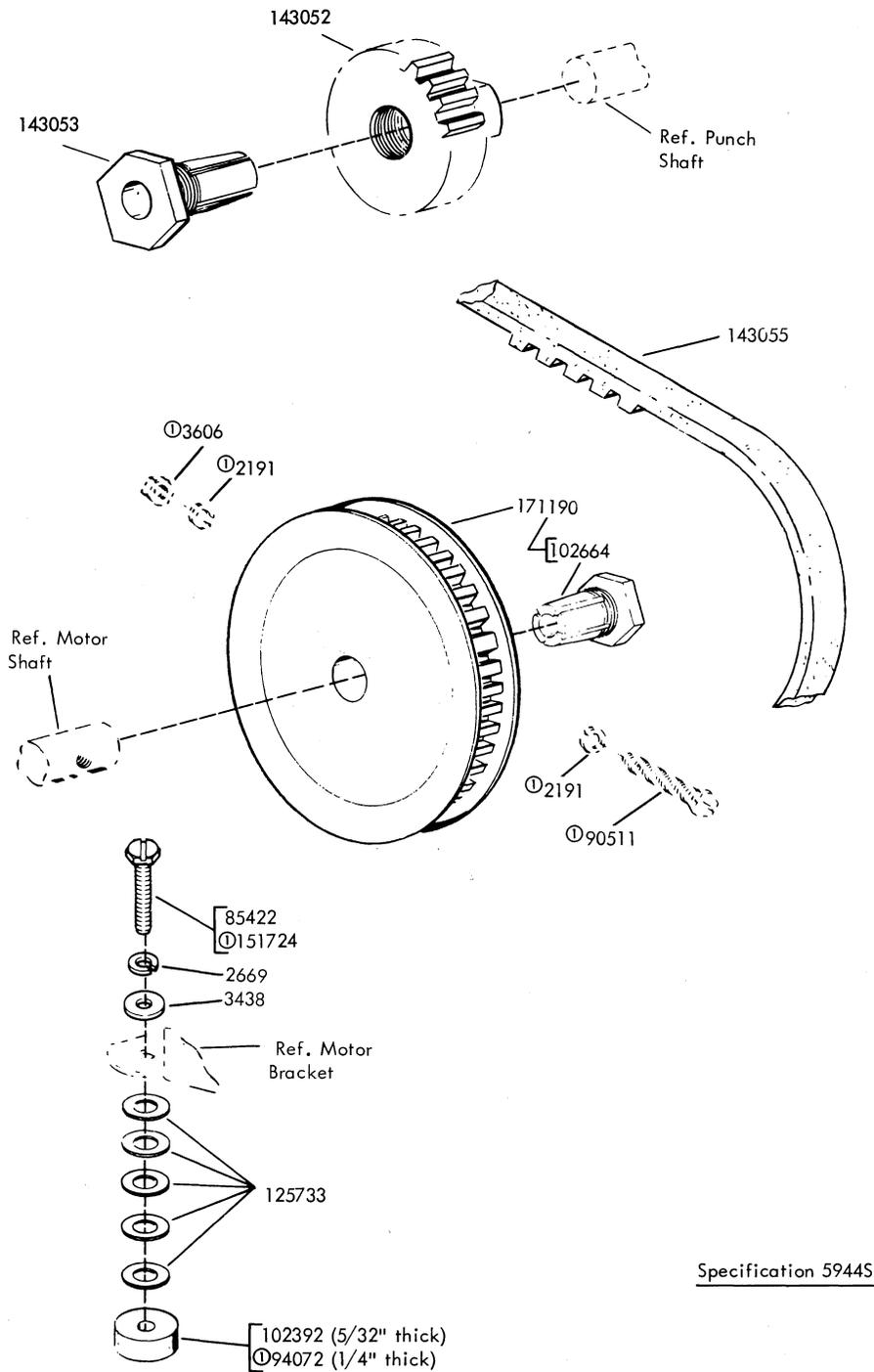
SPECIFICATION 5944S

FIGURE 9. 143062 MODIFICATION KIT TO PROVIDE MOTOR MOUNTING AND DRIVE PARTS
(633.3 W.P.M. FREE SPEED)



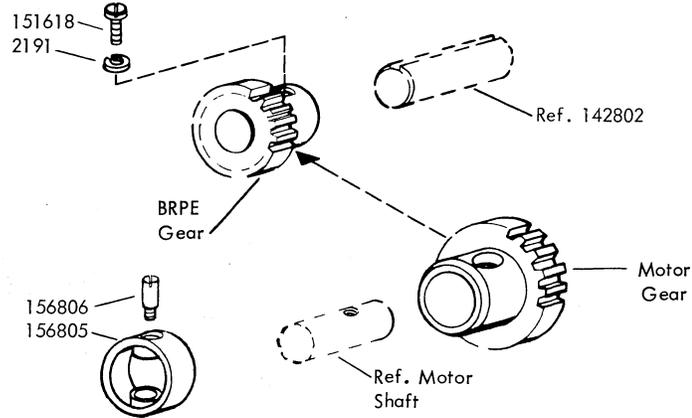
- ① Peculiar to 171826 Modification Kit (600 Baud Operation)
- ② Peculiar to 179149 Modification Kit (750 Baud Operation)

FIGURE 10. PARTS TO PROVIDE OPERATION OF THE BRPE WITH H/L RT SETS



Ⓞ Early Design

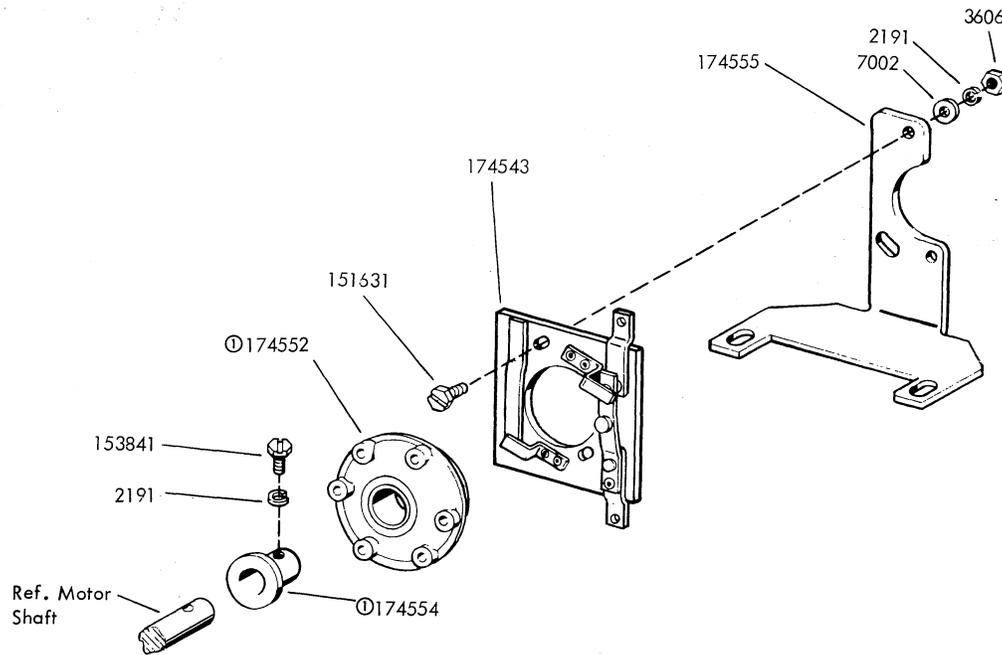
FIGURE 11. 143044 MODIFICATION KIT TO PROVIDE MOTOR MOUNTING AND DRIVE PARTS
(1100 W.P.M. FREE SPEED)



GEAR CHART				
Gearset No.	BRPE Gear	Motor Gear	① Baud	Cycle
145997	145998 (25T)	145999 (45T)	③ 1050	60
146966	146959 (28T)	146958 (51T)	② 750	60
146947	146949 (28T)	146948 (62T)	② 750	50
195279	195277 (18T)	195278 (39T)	③ 1050	50

- ① Based on Transmission Speed
- ② Based on 7.00 Unit Code
- ③ Based on 10.00 Unit Code

FIGURE 12. GEARSETS FOR UNITS MOUNTED IN AC CABINETS



① 174553 Rotor Assembly

FIGURE 13. 175198 MODIFICATION KIT TO PROVIDE MOTOR RUNNING CONTACTS FOR REPERFORATOR (BRPE)

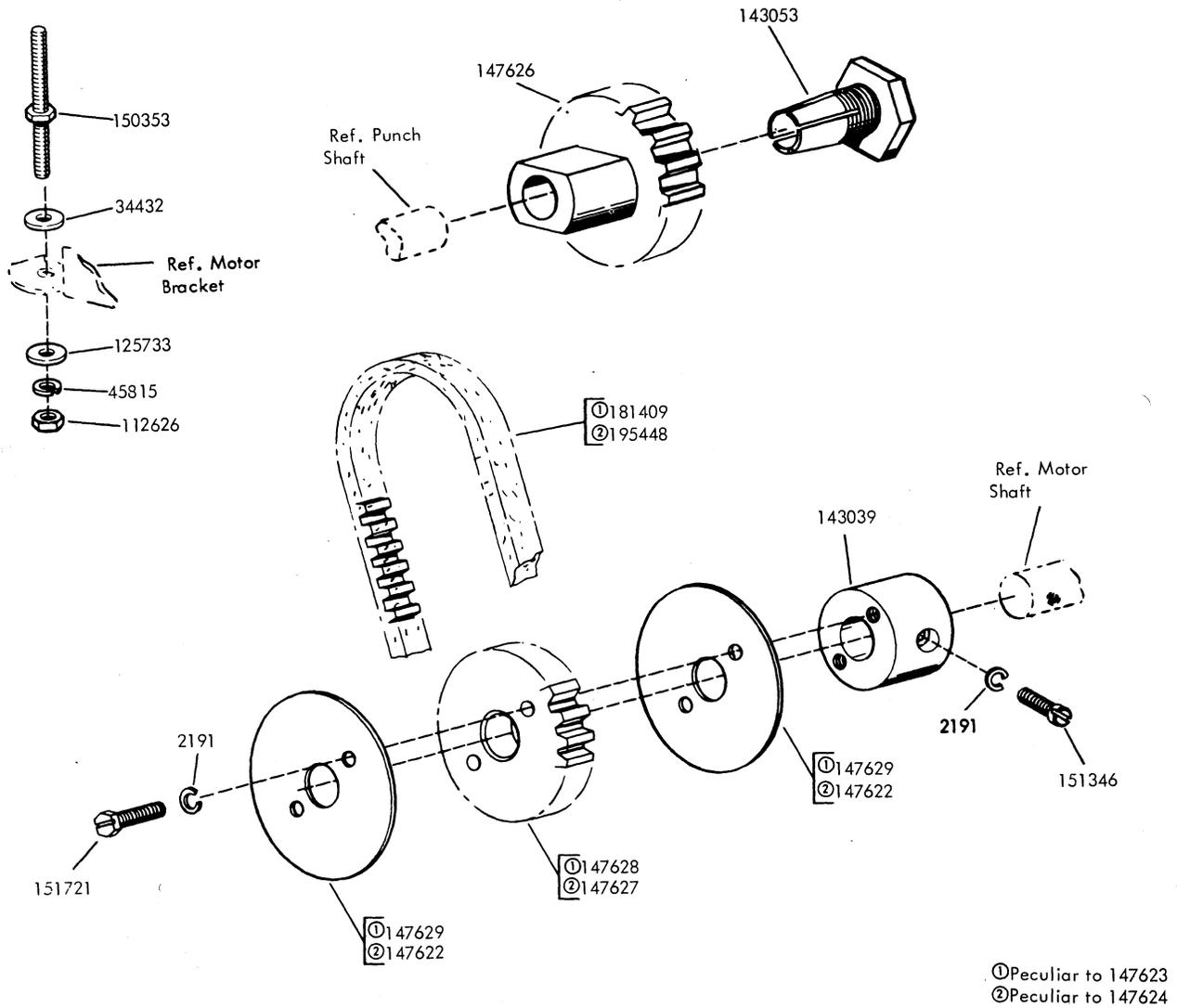


FIGURE 14. 147623 (63.3 OPERATIONS-PER-SECOND) AND 147624 (110 OPERATIONS-PER-SECOND) MODIFICATION KITS TO PROVIDE DRIVE PARTS FOR 50 HERTZ OPERATION

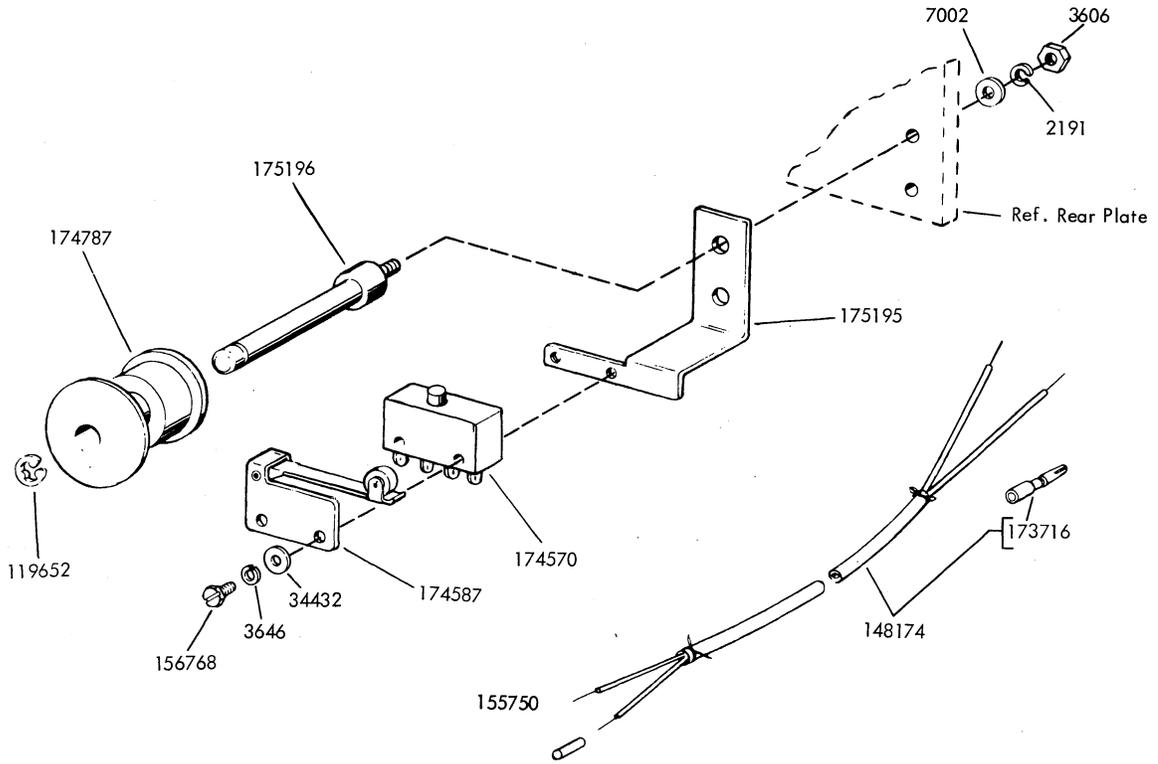


FIGURE 15. 175194 MODIFICATION KIT TO PROVIDE TAPE-OUT CONTACTS AHEAD OF REPERFORATOR (BRPE)

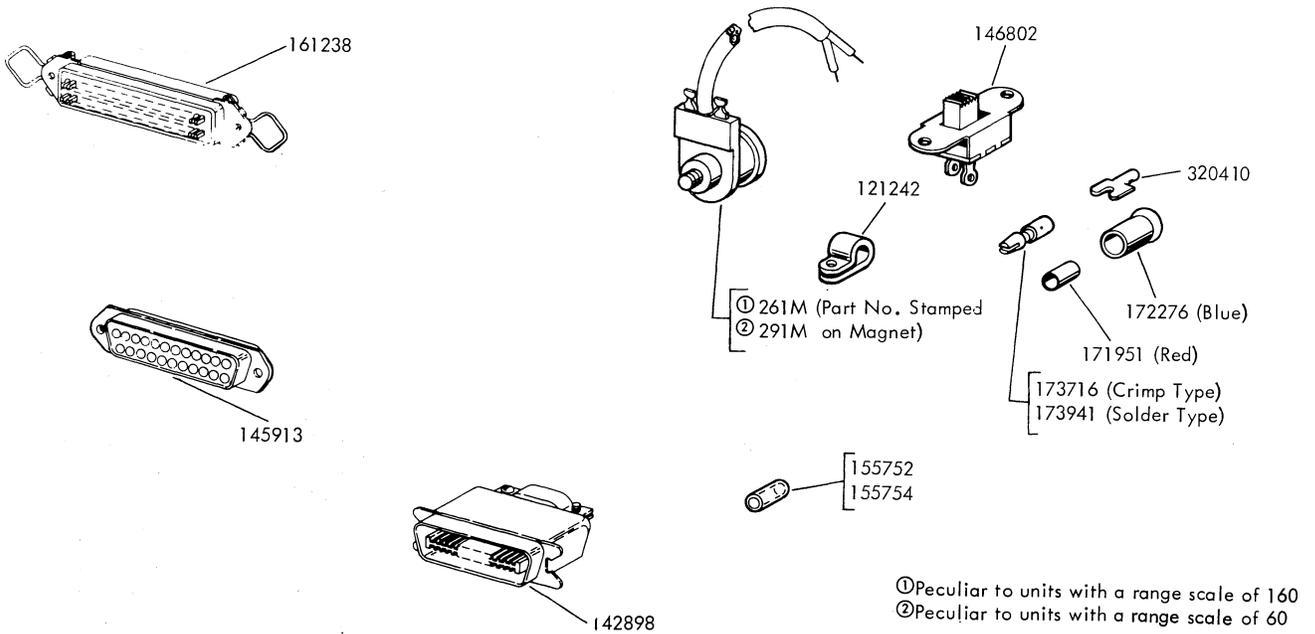


FIGURE 16. CABLE COMPONENTS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
261M	Coil, Magnet 7,15	90511	Screw, 6-40 x 13/16 Hex 12	124408	Bracket Assembly 9
291M	Coil, Magnet 15	90791	Lockwasher 5	125011	Washer, Flat 3,4,7,8
1030	Screw, 6-40 Shoulder 2	92806	Screw, 6-40 Shoulder 4	125015	Washer, Flat 3,9
1164	Screw, 2-56 x 3/16 Fil 3,5,9	93117	Lockwasher 3,5	125112	Screw, 2-56 x 1/8 Fil 5,9
2191	Lockwasher 2,3,4,6 to 10, 12 to 15	93118	Lockwasher 5	125171	Screw, 10-32 x 1/2 Flat 8
2449	Lockwasher 11	93879	Oiler, Felt 2,6	125683	Bushing, Eccentric 4
2539	Nut, 3/8-32 Hex 4,6,7,11	93969	Screw, 4-40 x 3/16 Flat 8	125733	Washer, Flat 10,12,14
2669	Lockwasher 2,3,4,6,8, 10,12	93985	Lockwasher 7	128357	Ring, Retaining 4
3438	Washer, Flat 10,12	94072	Bushing 12	130690	Washer, Felt 6
3598	Nut, 6-40 Hex 2,3,4,7,9	94693	Wick, Felt 2	135094	Pulley, 19T 10
3599	Nut, 4-40 Hex 2,3,6	102374	Wick, Felt 2	135095	Retainer, Belt 10
3606	Nut, 6-40 Hex 2,4,12,13, 15	102392	Spacer 12	135097	Belt, 38T 10
3639	Lockwasher 4	102664	Hub 11,12	135247	Oiler, Felt 2
3640	Lockwasher 2,3,4,6,7	106047	Screw, 1/4-32 x 1/2 Hex 11	139957	Bracket 6
3646	Lockwasher 15	110435	Nut, 4-40 Hex 2,3,9	139958	Disc 6
5740	Screw, 2-56 x 1/4 Fil 5	110743	Lockwasher 2,3,4,6,8,9,11	139962	Flywheel w/Block 6
7002	Washer, Flat 2,3,4,6,9, 13,15	111017	Screw, 6-40 x 5/16 Fil 2	139991	Post, Spring 2
8330	Washer, Flat 4,7	111410	Washer, Flat 6	139992	Button 6
34432	Washer, Flat 2,9,14,15	112626	Nut, 10-32 Hex 14	139997	Washer, Spring 6,7
41675	Washer, Flat 2	112627	Nut, 2-56 Hex 9	142800	Plate, Rear 8
42823	Washer, Flat 3,4,6	112633	Spring w/Wick 5	142801	Housing, Bearing 6,7
45815	Lockwasher 14	112769	Washer, Flat 2	142802	Shaft w/Bearing 7,13
55005	Washer, Flat 9	115221	Washer, Felt 2	142803	Setscrew, 10-32 6,7
70891	Lockwasher 4	119376	Washer, Flat 11	142805	Spacer, .06" Thk 6
71073	Washer, Flat 5	119421	Washer, Flat 7	142806	Shield, Bearing 6
73175	Lockwasher 6,7,11	119648	Ring, Retaining 2,5	142807	Bearing 2,6
74807	Nut, 10-32 Shoulder Hex 2,4,6	119651	Ring, Retaining 2,3	142808	Link, Feed Bearing 2
76081	Washer, Flat 11	119652	Ring, Retaining 2,4,9,15	142809	Clamp, Bearing 6,11
76953	Washer, Flat 6	119662	Screw, 6-40 Spl 8	142811	Shaft, Punch Bail 2
76983	Screw, 4-40 x 1-1/4 Fil 6	121242	Clamp, 1/8 ID Cable 15	142812	Stud, Toggle Arm 2
79890	Screw, 1/4-32 x 7/8 Hex 11	122136	Spacer, .04" Thk 5	142828	Pawl, Feed 2
80957	Screw, 4-40 x 1/4 Hex 8	124244	Washer, Felt 3	142829	Pin 2
81596	Screw, 10-32 x 1-3/8 Hex 10	124249	Spacer, .217" Thk 2	142830	Spring, Torsion 2
82726	Spring 3	124252	Link 2	142833	Arm, Bearing 6
85422	Screw, 10-32 x 15/16 Hex 12	124258	Screw, 4-40 Shoulder 2	142834	Bail, Toggle Arm 2
87402	Spring 2	124279	Link, Feed Punch 3	142835	Shaft, Toggle Arm 3
89077	Stud 3	124282	Spacer, .044" Thk 2	142839	Bearing, Ball 6
89896	Oiler 4	124287	Spacer, .156" Thk 2	142840	Clamp, Bearing 6
90361	Washer, Felt 2	124289	Bearing, Ball 6	142841	Counterweight 6
90437	Wick, Felt 4	124292	Bracket 9	142842	Key 6
		124293	Stud 9	142844	Spacer, Bearing Arm 6
		124294	Roller 9	142845	Clip, Bearing 6
		124300	Spacer, .056" Thk 2	142846	Bracket, Link Pivot 3
		124301	Spacer, .312" Thk 6	142847	Shaft, Link 3
		124313	Magnet Assembly 3	142848	Clamp 3
		124320	Armature 3	142849	Wick, Felt 3
		124355	Insulator, .010" Thk 3	142850	Clamp, Spring 3
				142852	Bracket, Arm Stop 3
				142853	Stud 3

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
142855	Bracket, Left Spring 3	142999	Link Assembly, Feed Pawl 2	145984	Spacer, .499" Thk 7
142856	Bracket, Right Spring 3	143006	Lever 2	145985	Post 7
142865	Screw, 6-40 x 2-1/32 Hex 4	143007	Pick-up, Magnetic 6	145986	Indicator 7
142866	Magnet Assembly 3	143014	Link 2	145987	Disc 7
142867	Yoke 3	143016	Arm, Toggle 2	145988	Flywheel w/Magnet 7
142869	Screw, 4-40 Spl 3	143017	Arm, Toggle 2	145991	Bar, RT Magnet Mounting 3
142871	Armature 3	143019	Spacer, 0.249" Thk 2	145992	Bar, LT Magnet Mounting 3
142872	Armature 3	143020	Spacer, 0.106" Thk 2	145993	Bar, LB Magnet Mounting 3
142873	Arm, Detent 4	143021	Plate 2	145994	Bar, RB Magnet Mounting 3
142876	Spring, Torsion 4	143026	Eccentric 2	145995	Plate 4
142877	Post 8	143028	Scale 2	145996	Plate, Rear 3,7
142880	Plate, Front 6	143038	Spacer 10	145997	Gearset 13
142882	Clamp, Bearing 6	143039	Hub 10,14	145998	Gear, 25T 13
142887	Retainer 6,7	143040	Ring, Retaining 4	145999	Gear, 45T 13
142888	Wheel, Feed 4	143041	Screw, 4-40 Spl 9	146177	Modification Kit 2,4
142889	Post, Tape Arm 4	143042	Oiler, Felt 9	146178	Modification Kit 2
142890	Arm, Tape 4	143043	Bracket, Oiler 9	146261	Block Assembly, Punch 5
142895	Spring, Torsion 4	143044	Modification Kit 1,12	146262	Spring, Biasing 5
142896	Shaft, Feed Wheel 4	143045	Link 2,4	146263	Spring, Biasing 5
142897	Spring, Flat 5	143048	Spring, Torsion 2	146264	Link, Operating 5
142898	Connector, 24 Pt Plug 15	143050	Plate, Stop 3	146265	Arm w/Hub 5
142900	Wheel Assembly Feed 4	143052	Pulley, 24T 11,12	146270	Post, Spring 5
142901	Plate 4	143053	Hub 10,11,12,14	146273	Post 5
142910	Stud 4	143055	Belt, 65T 12	146284	Guide, Adjustable Tape 4
142911	Plate 4	143056	Block Assembly, Punch 5	146285	Guide Assembly, Tape 4
142912	Pushing, Eccentric 4	143061	Pulley, 18T 10	146286	Plate w/Posts 4
142917	Cutter, Tape 4	143062	Modification Kit 1,10	146675	Link Assembly 3
142918	Chute, Chad 4	143066	Magnet Assembly 3	146677	Block Assembly, Punch 5
142921	Stud 4	143072	Shield, Bearing 6	146678	Link, Drag 3
142923	Post 2,6	143073	Spacer, .06" Thk 6	146685	Guide, Tape 4
142924	Roller 4	143074	Wick, Felt 3	146802	Switch, SP-ST Slide 7,15
142927	Bar 8	143077	Spring 3	146803	Bracket 7
142928	Bar 8	143078	Arm, Long Toggle 3	146862	Spacer 4
142929	Cover, Chad 8	143079	Arm, Short Toggle 3	146947	Gearset 13
142930	Link Assembly 3	143080	Link, Drag 3	146948	Gear, 62T 13
142933	Box, Chad 8	143088	Guide, Tape 4	146949	Gear, 28T 13
142942	Bracket w/Tape Guide 4	143091	Roller 4	146958	Gear, 51T 13
142944	Eccentric 4	143097	Ring, Retaining 2	146959	Gear, 28T 13
142946	Pawl, Blocking 3	145808	Block Assembly, Punch 5	146966	Gearset 13
142949	Pawl, Blocking 3	145861	Link w/Hub 2	147622	Retainer, Belt 14
142983	Guide, Tape 9	145862	Link, Feed Bearing 2,6	147623	Modification Kit 1,14
142988	Cover 9	145864	Block, Pawl 4	147624	Modification Kit 1,14
142989	Window, Plastic 9	145865	Arm, Toggle 2	147626	Pulley, 15T 14
142994	Bar, Magnet Mounting 3	145866	Guide 2	147627	Pulley, 33T 14
142995	Bar, Magnet Mounting 3	145873	Plate 2,4		
142996	Bar, Magnet Mounting 3	145874	Link w/Bushing 2		
142997	Bar, Magnet Mounting 3	145875	Ring, Retaining 2		
142998	Screw, 6-40 x 3/8 Flat 3	145877	Guide 2,4		
		145913	Connector, 25 Pt Receptacle Type 15		

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
147628	Pulley, 19T 14	152893	Screw, 4-40 x 1/4 Hex 3,11	171286	Bracket, Mounting 7
147629	Retainer, Belt 14	153441	Screw, 10-32 x 7/16 Hex.4	171691	Pulley, 30T 11
147773	Flywheel 6	153442	Screw, 10-32 x 1/2 Hex 3	171692	Shaft w/Bearing 6
147774	Clamp 6	153799	Screw, 4-40 x 21/64 Hex 3	171694	Shaft 11
147775	Bracket, Mounting 6	153841	Screw, 6-40 x 9/16 Hex 13	171826	Modification Kit 11
147963	Block Assembly, Punch 5	155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 15	171951	Connector, Red Shielding 15
148174	Cable w/Terminals 15	155752	Sleeve, 5/64 ID x 1/2" Lg Insulating 15	172276	Connector, Blue Insulated 15
148287	Spring, Detent 8	155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 3	173716	Terminal, Receptacle Type 15
148288	Modification Kit 8	155754	Sleeve, 1/16 ID x 1/2" Lg Insulating 15	173941	Terminal, Receptacle Type 15
150353	Stud 14	156536	Screw, 4-40 x 1/8 Fil 4	173974	Screw, 10-32 x 5/16 Hex 4
150948	Plate 9	156632	Screw, 6-40 x 13/32 Hex 3	174543	Switch 13
150950	Plate, Code 9	156768	Screw, 8-32 x 9/32 Hex 7,15	174552	Rotor, Centrifugal 13
151073	Screw, 4-40 x 5/32 Fil 7	156805	Retainer 13	174553	Rotor 13
151152	Screw, 4-40 x 3/16 Hex 6	156806	Post 13	174554	Hub, Switch 13
151346	Screw, 6-40 x 3/8 Fil 10,14	158186	Screw, 4-40 x 7/32 Fil 3,4	174555	Bracket, Switch 13
151618	Screw, 6-40 x 7/16 Fil 13	158207	Setscrew, 10-32 6	174570	Switch 15
151630	Screw, 6-40 x 1/4 Hex 4,6,9	159233	Stud 8	174587	Actuator, Switch 15
151631	Screw, 6-40 x 5/16 Hex 3,13	159341	Bearing, Ball 6,7	174787	Roller 15
151637	Screw, 4-40 x 1/4 Fil 6	161238	Connector, 36 Pt Receptacle 15	175194	Modification Kit 1,15
151658	Screw, 6-40 x 5/16 Fil 9	164958	Screw, 4-40 x 1/2 Hex 4	175195	Bracket 15
151660	Screw, 6-40 x 7/8 Fil 6,7	170751	Block Assembly, Punch 5	175196	Stud 15
151686	Screw, 4-40 x 3/8 Fil 3	170752	Plate, Rear 2	175198	Modification Kit 1,13
151694	Screw, 6-40 x 11/32 Fil 4	170753	Link Assembly 3	179148	Belt, 95T 11
151721	Screw, 6-40 x 3/4 Hex 10,14	170754	Bracket 9	179149	Modification Kit 11
151722	Screw, 6-40 x 3/16 Hex 4,7	170755	Bracket, Tape Guide 9	179159	Spacer, .468" Thk 11
151724	Screw, 10-32 x 5/8 Hex 8,12	170756	Spacer, .095" Thk 4	181409	Belt, 47T 14
151796	Plate, Bell Identification 9	170805	Coupling, Flexible 11	195277	Gear, 18T 13
151880	Nut, 4-40 Hex 6	171175	Bearing, Ball 11	195278	Gear, 39T 13
152426	Nut, 6-40 Self-Locking 6	171180	Belt, 100T 11	195279	Gearset 13
		171190	Pulley, 44T 11,12	195448	Belt, 55T 14
		171194	Bracket w/Bearing 11	199378	Pad 5
				320410	Terminal, Spade Type 15
				327530	Pad 5
				334086	Plate, Left Guide 3
				334087	Plate, Right Guide 3