

28 SEND-RECEIVE REPERFORATOR KEYBOARD BASE (LTRK)

and

28 SEND-RECEIVE TAPE PRINTER KEYBOARD BASE (LTPK)

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17	176405 Modification Kit to add Tape				

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

UNIT DESCRIPTION	TELETYPE CODE	BELL SYSTEM CODE
KEYBOARD BASE	LTPK1	28LA
	LTPK2	28LB
	LTPK3	28LC
	LTRK1	28E

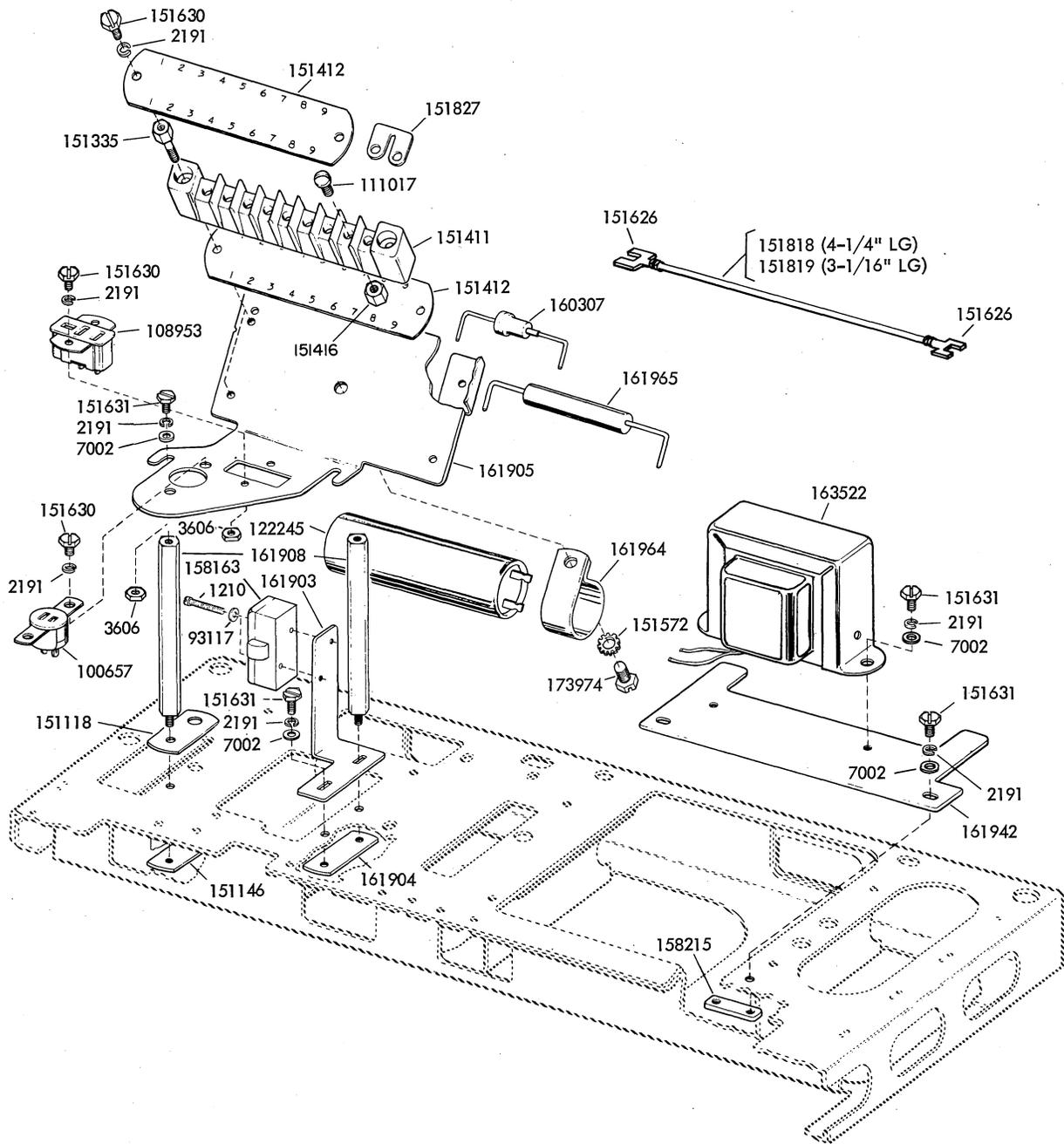
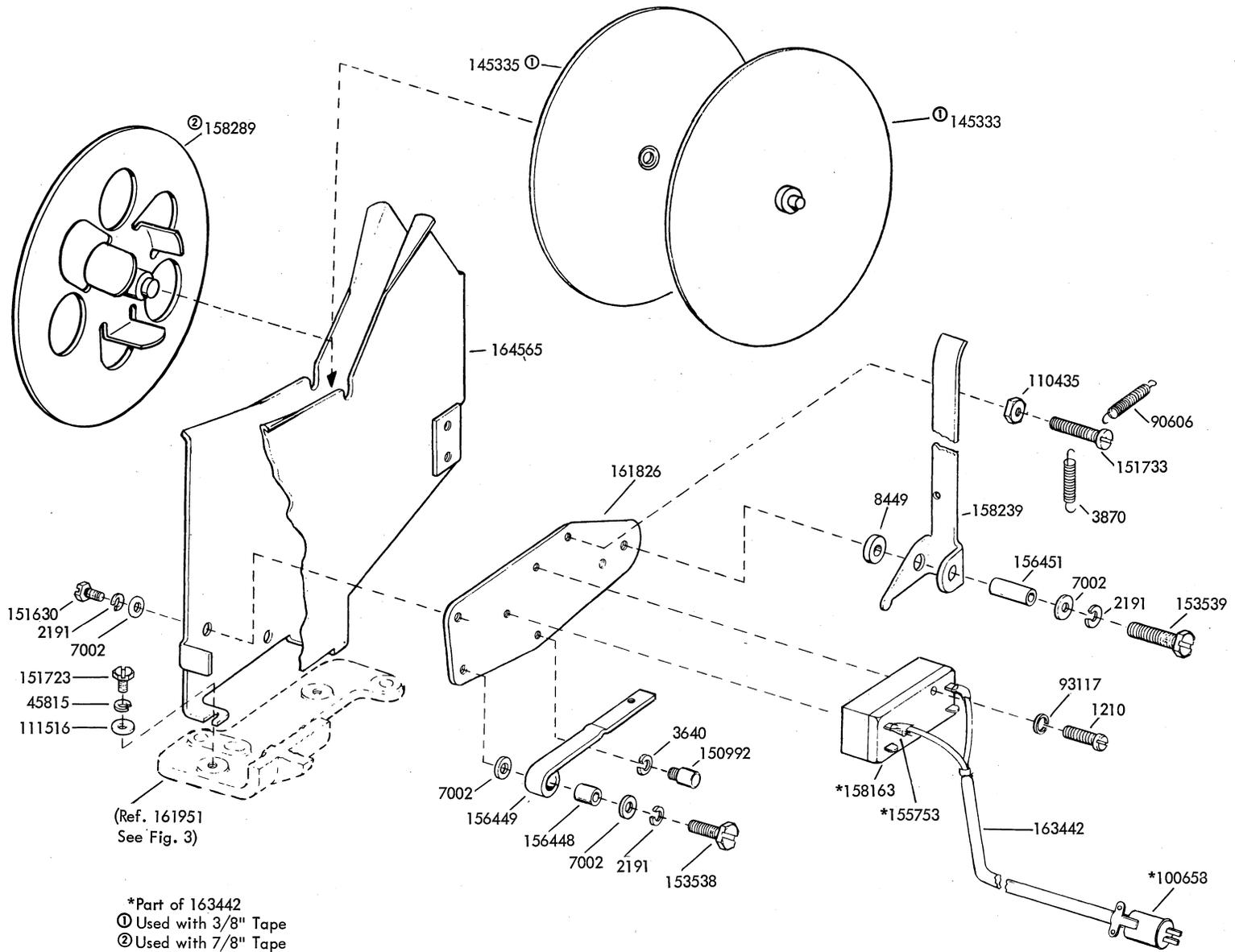


FIGURE 2. ELECTRICAL COMPONENTS

FIGURE 4. TAPE CONTAINER



*Part of 163442
 ① Used with 3/8" Tape
 ② Used with 7/8" Tape

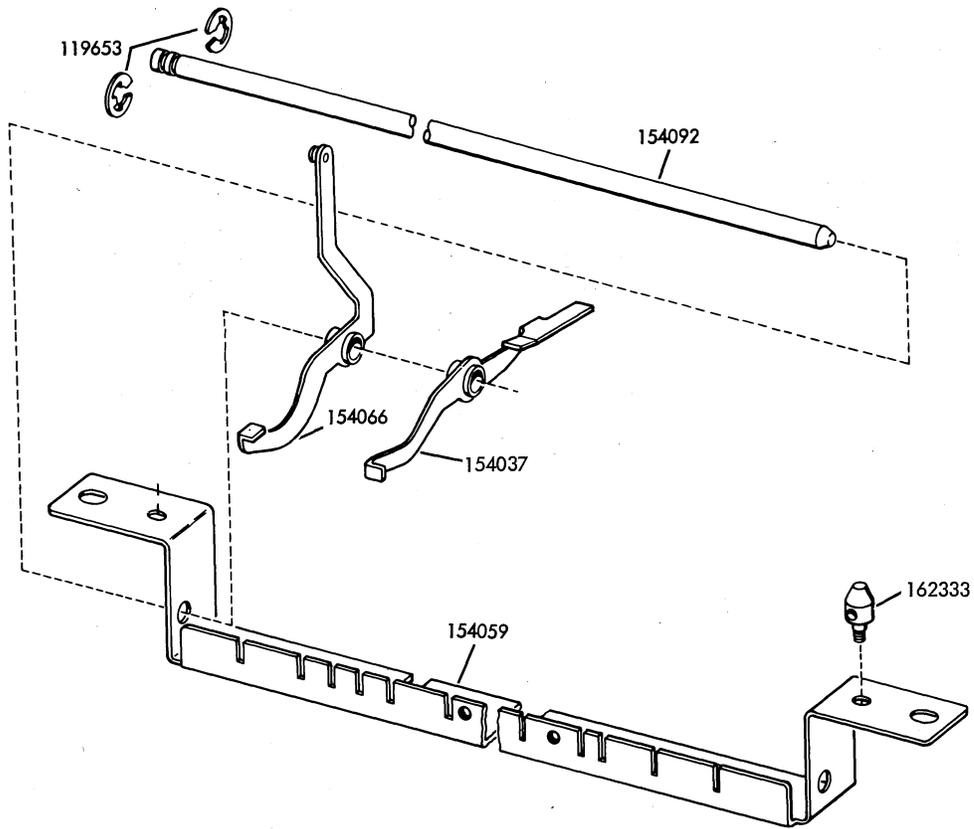


FIGURE 5. FUNCTION BAIL MECHANISM

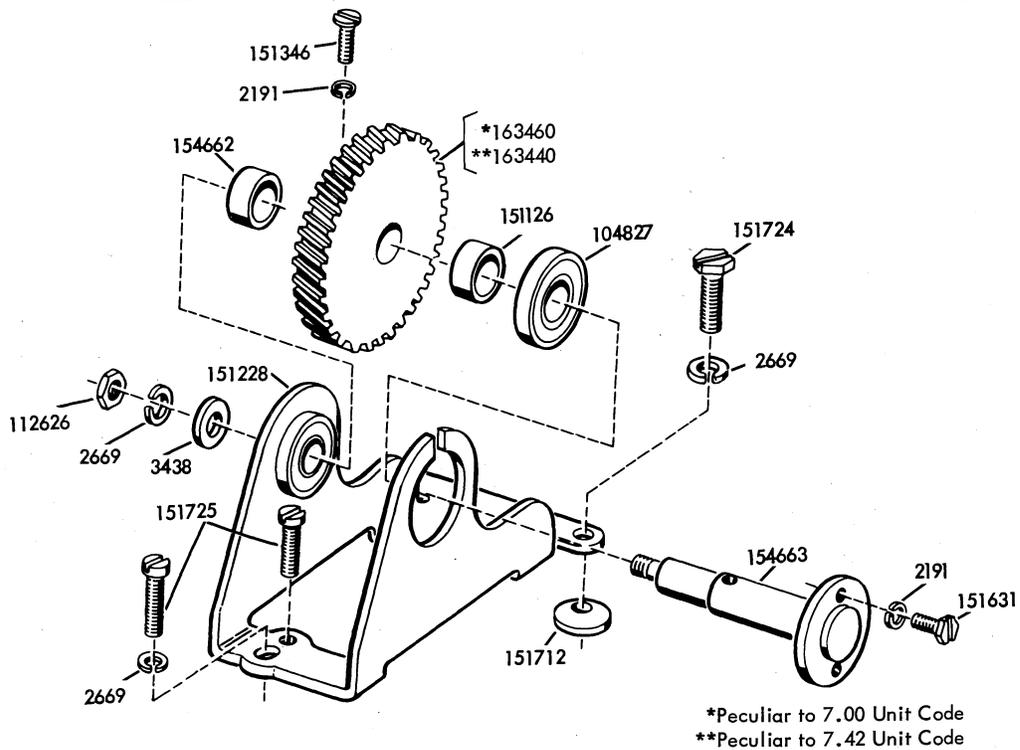
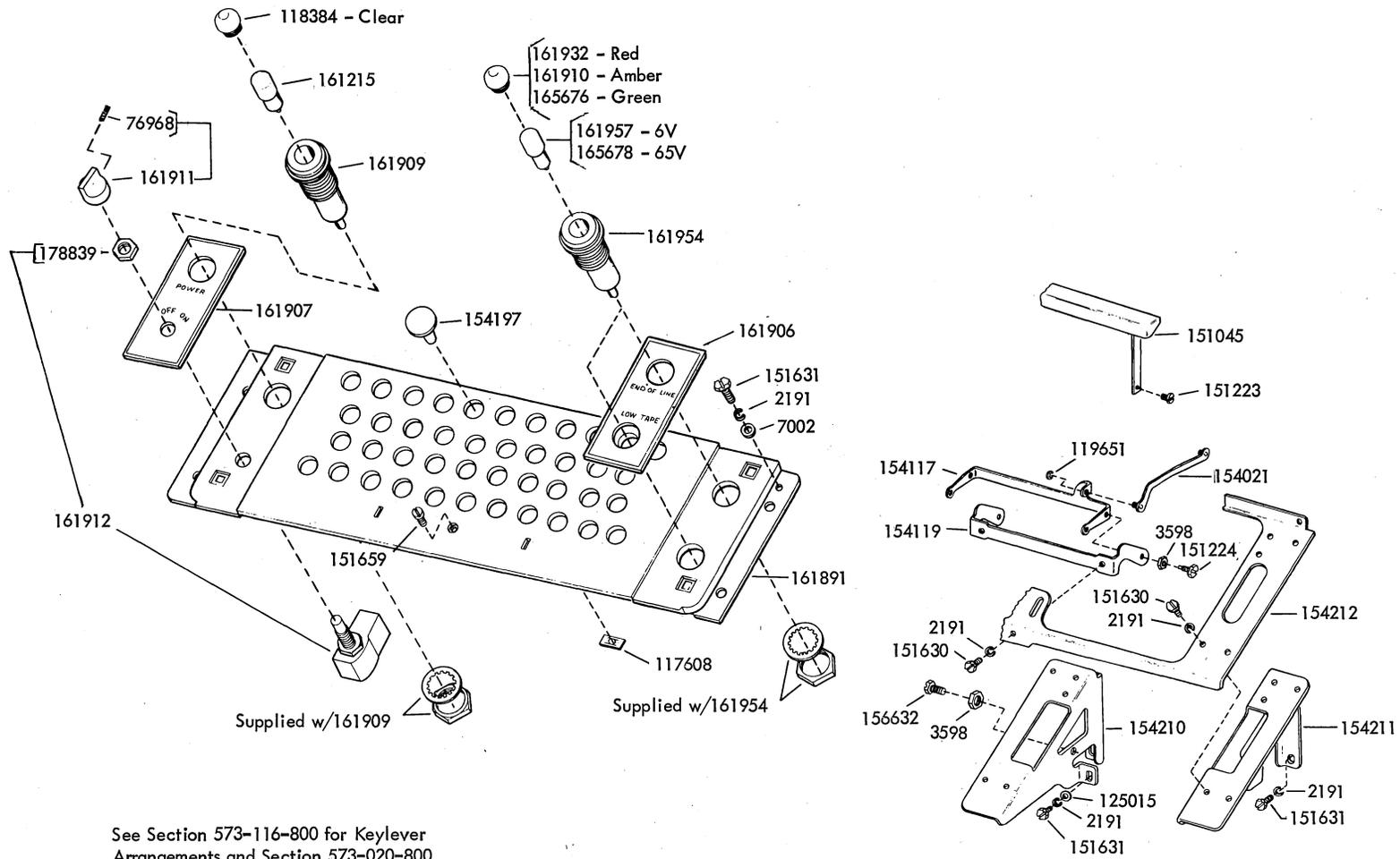


FIGURE 6. INTERMEDIATE GEAR MECHANISM

FIGURE 7. KEYBOARD



See Section 573-116-800 for Keylever Arrangements and Section 573-020-800 for Keylever Assemblies

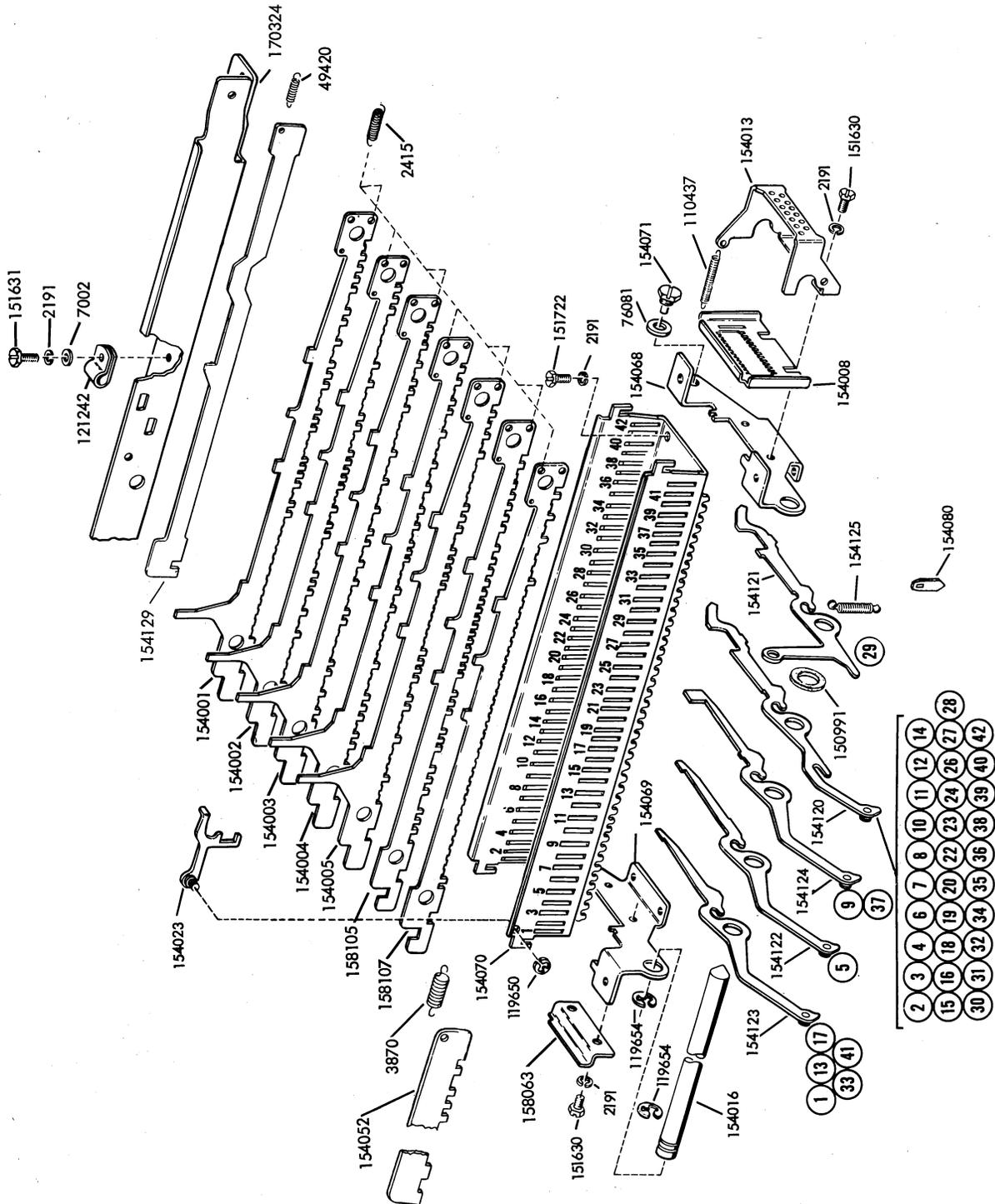


FIGURE 8. CODE BAR MECHANISM

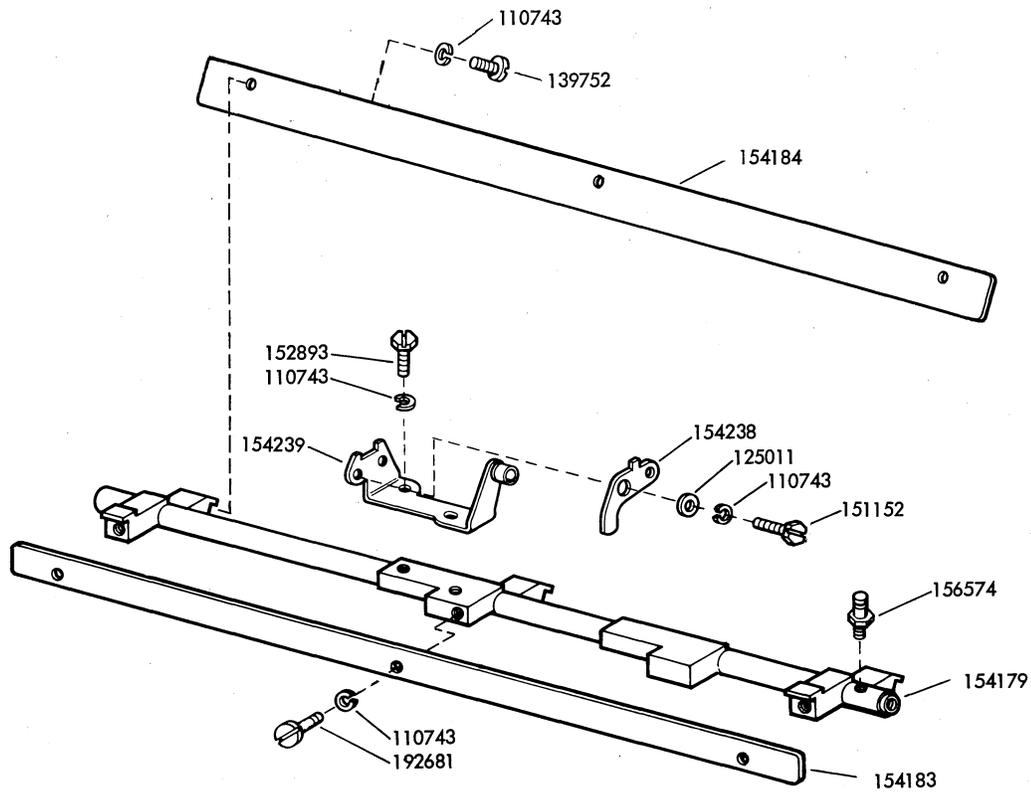


FIGURE 9. UNIVERSAL BAIL MECHANISM

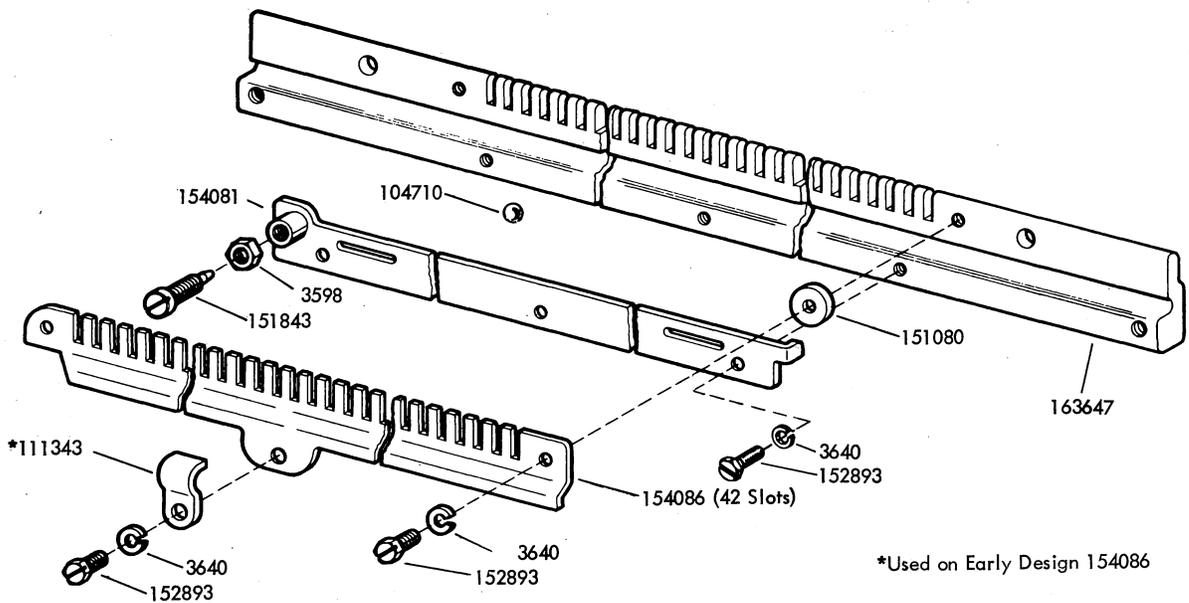
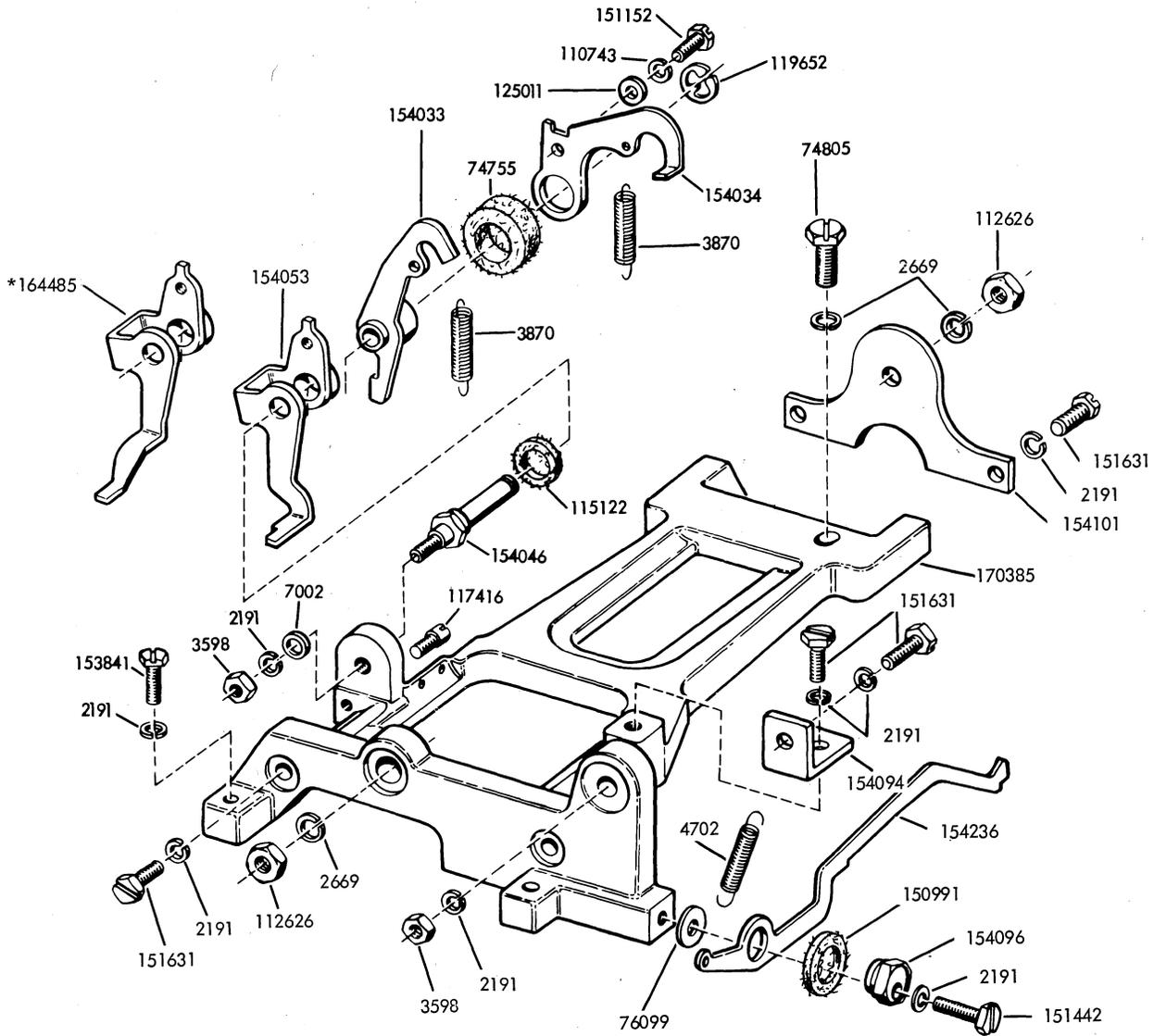


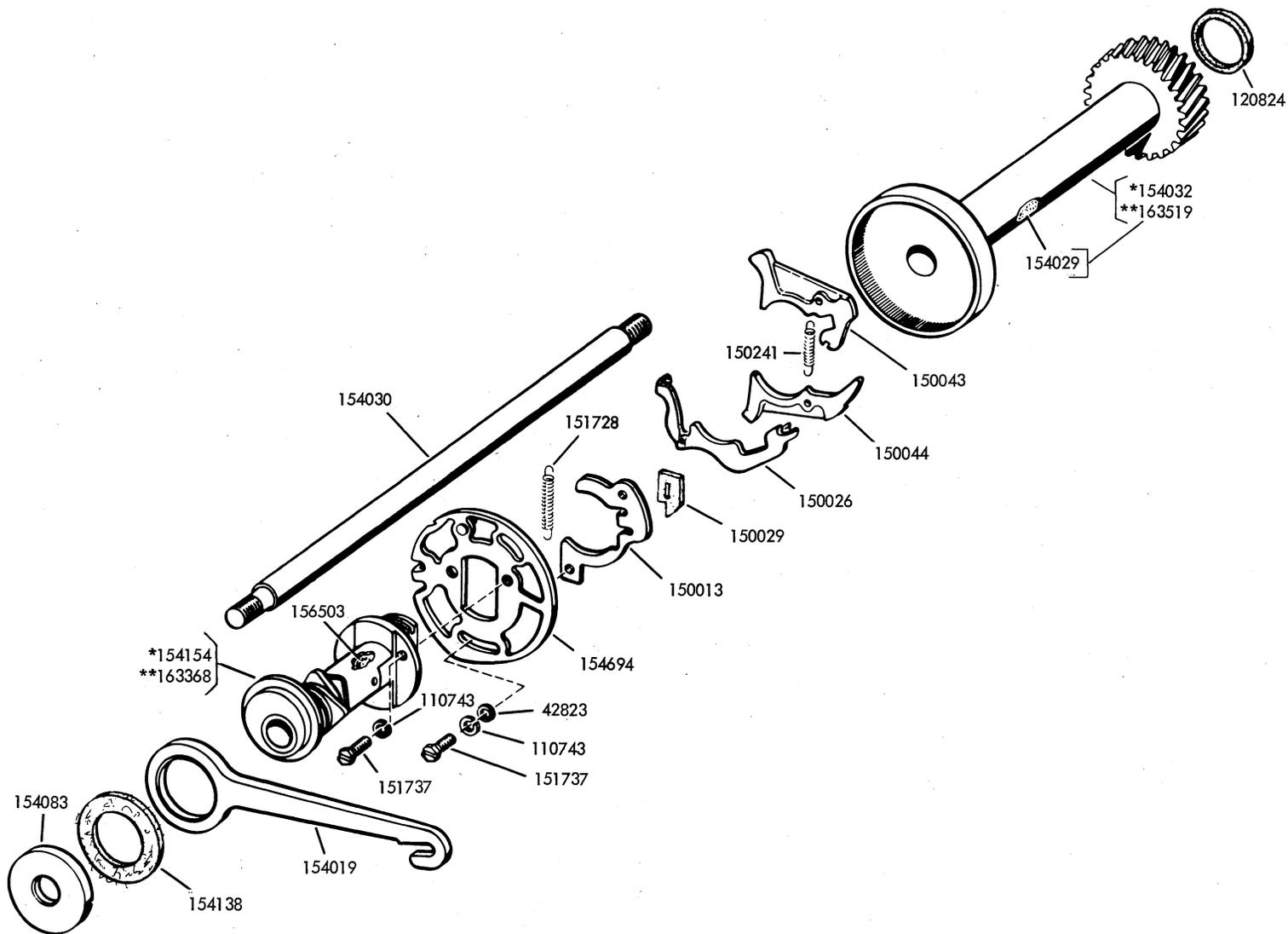
FIGURE 10. BAIL LOCK MECHANISM



*Peculiar to Units Equipped with Synchronous Pulsed Transmission

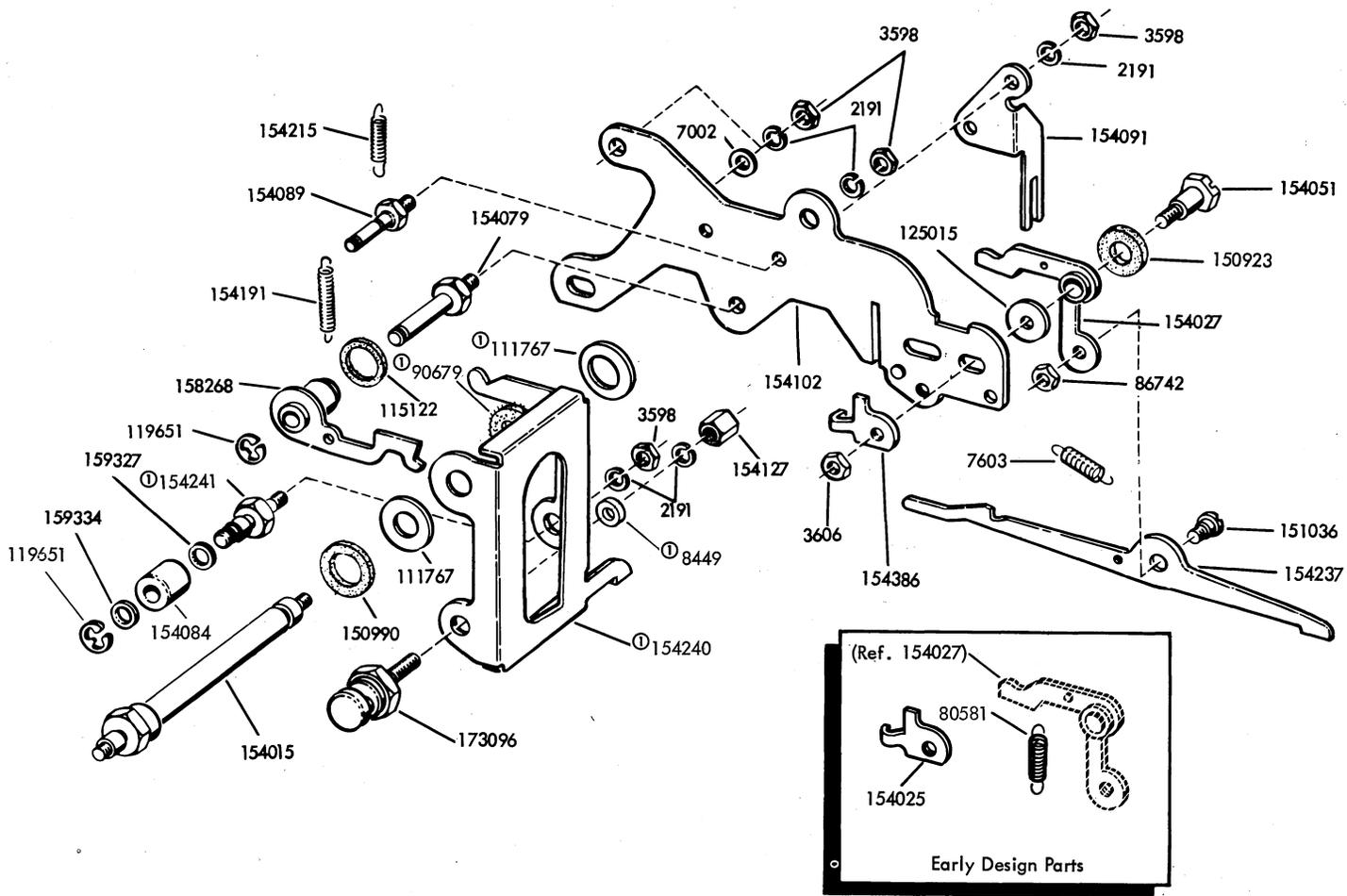
FIGURE 11. SIGNAL GENERATOR FRAME MECHANISM

FIGURE 12. SIGNAL GENERATOR SHAFT MECHANISM



*Peculiar to 7.42 Unit Code
 **Peculiar to 7.00 Unit Code

FIGURE 14. SIGNAL GENERATOR REAR PLATE MECHANISM



① 154350 Modification Kit

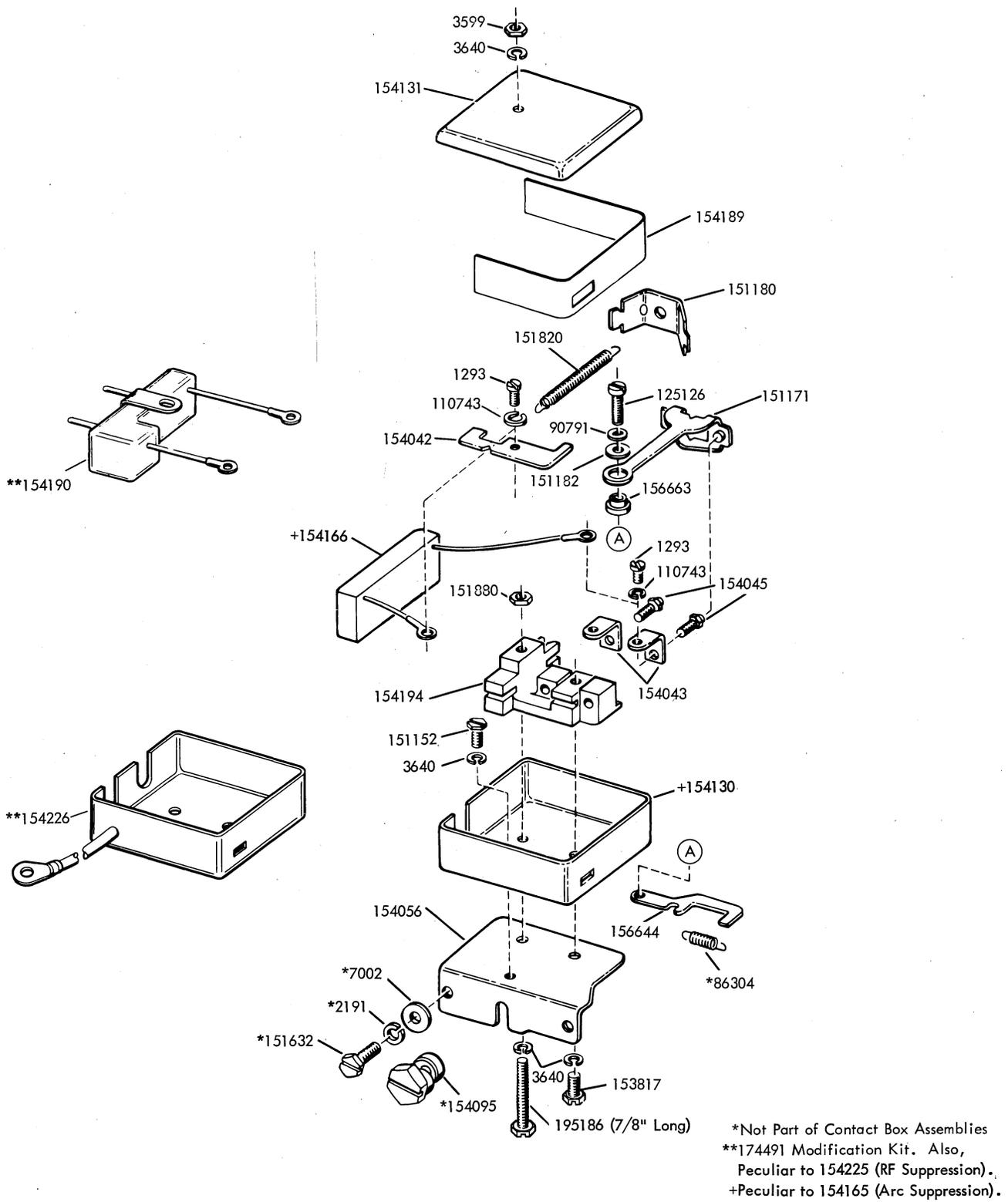


FIGURE 15. 154165 AND 154225 SIGNAL GENERATOR CONTACT BOX ASSEMBLIES

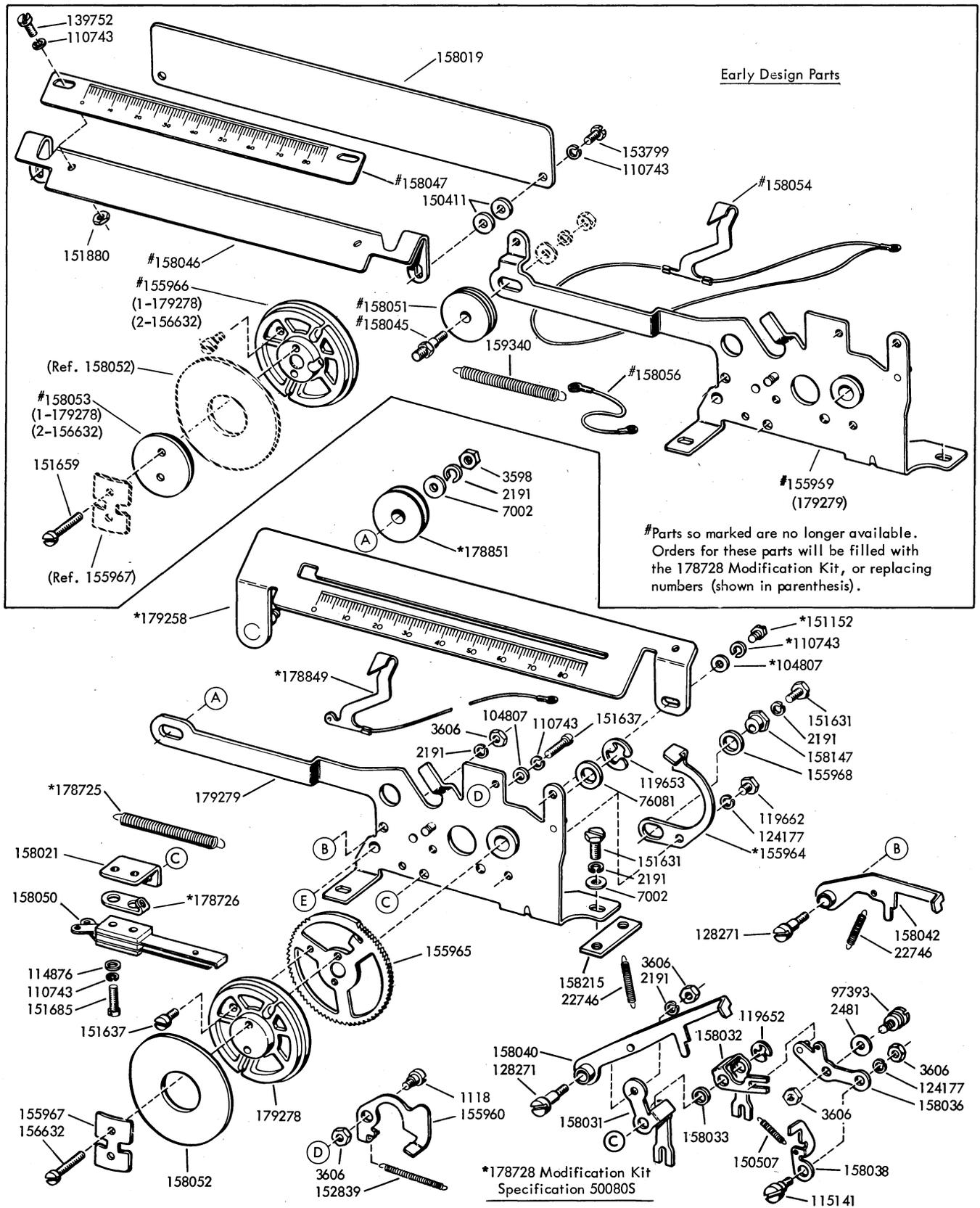


FIGURE 16. 155990 CHARACTER COUNTER MECHANISM

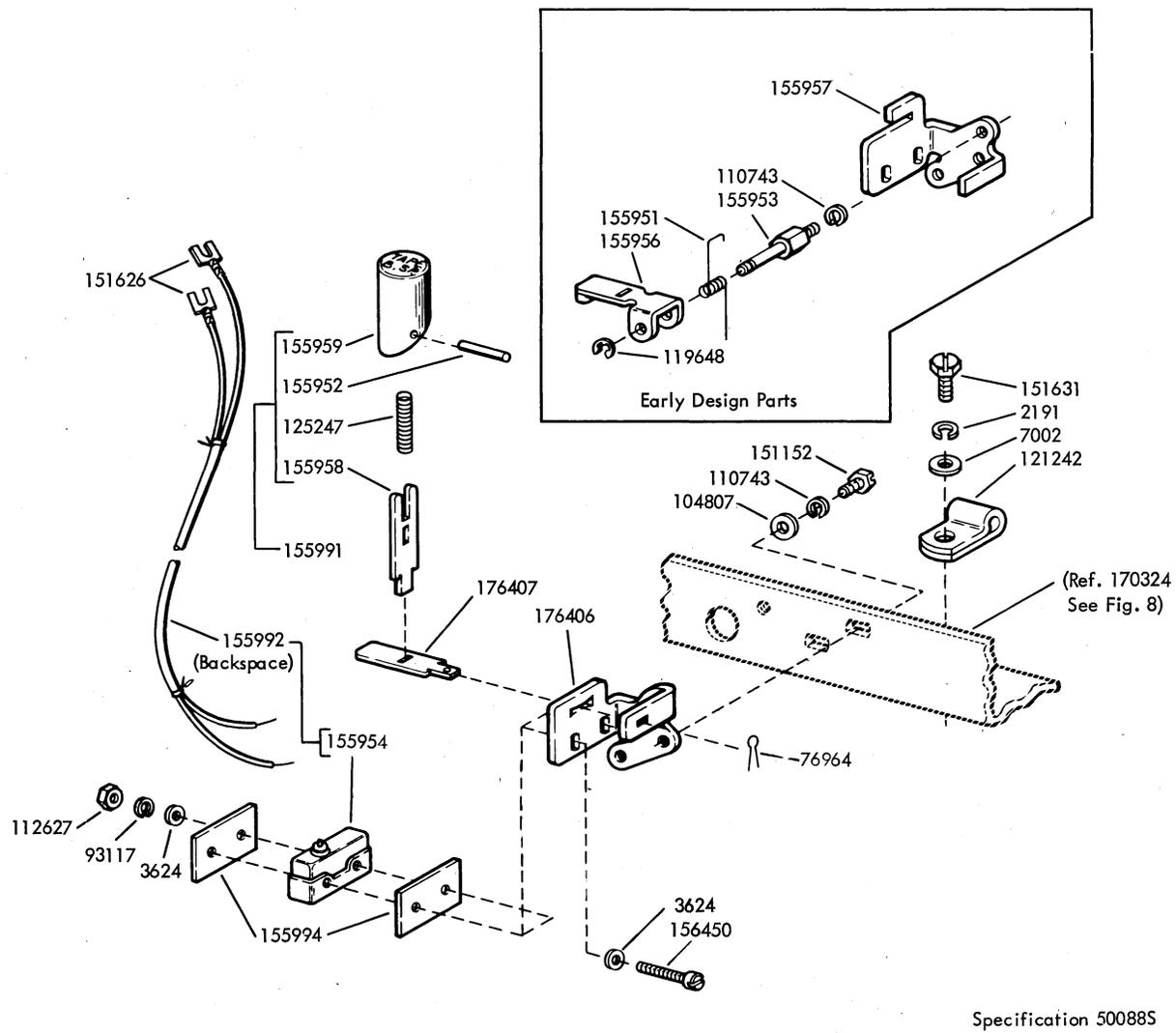


FIGURE 17. 176405 MODIFICATION KIT TO ADD TAPE BACKSPACE BUTTON

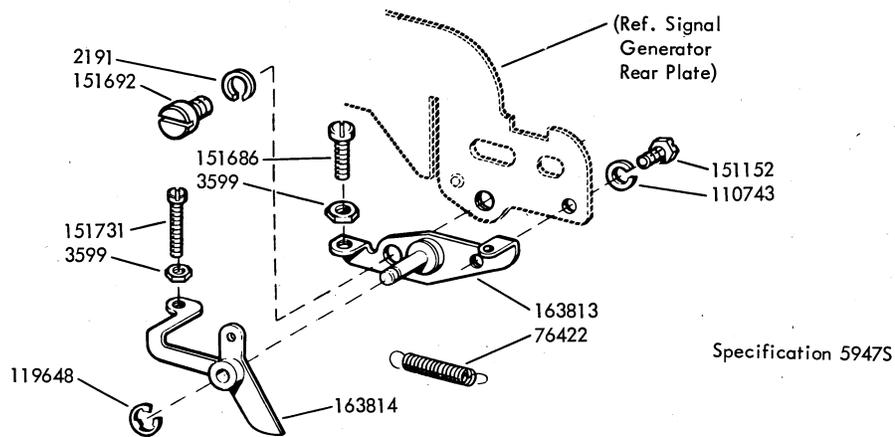
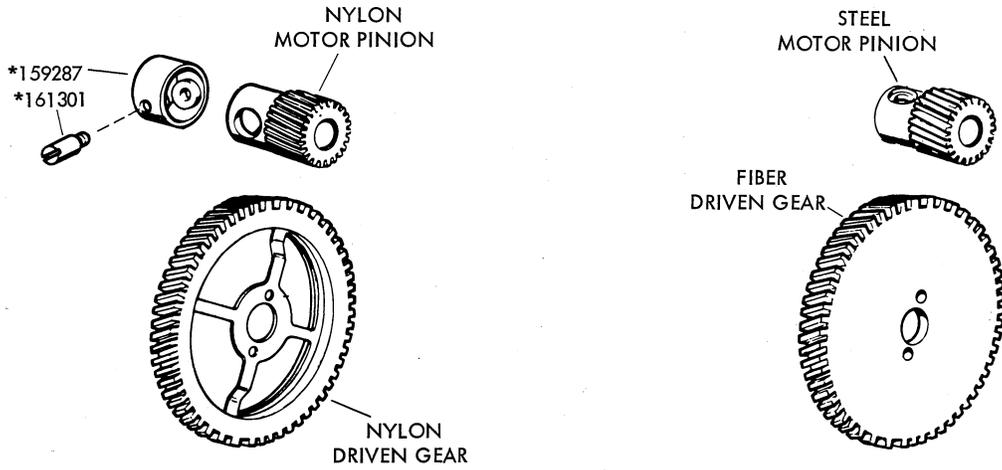


FIGURE 18. 163775 MODIFICATION KIT TO PROVIDE REPEAT ON SPACE MECHANISM



*Supplied with nylon gear sets (Except 173795)

GEAR SETS FOR SEND-RECEIVE KEYBOARD BASE								
Set Number	Pinion	Teeth	Driven Gear	Teeth	SPEED			
					7.00 Unit Code		7.42 Unit Code	
					WPM	Baud	WPM	Baud
151060 161293	151130 (S) 159278 (N)	14	151131 (F) 159279 (N)	96	—	—	60	45.5
152766	152765 (S)	13	152764 (F)	81	—	—	67	50
151075 161294	151132 (S) 159281 (N)	17	151133 (F) 159282 (N)	93	—	—	75	50
151100 161295	151134 (S) 159284 (N)	20	151135 (F) 159285 (N)	84	—	—	100	74.2
163504	163461 (N)	18	163462 (N)	117	71	50	—	—
163505	163463 (N)	24	163464 (N)	104	107	75	—	—
173795	173794 (N)	14	173793 (N)	100	65	45.5	—	—

FIGURE 19. GEAR SETS

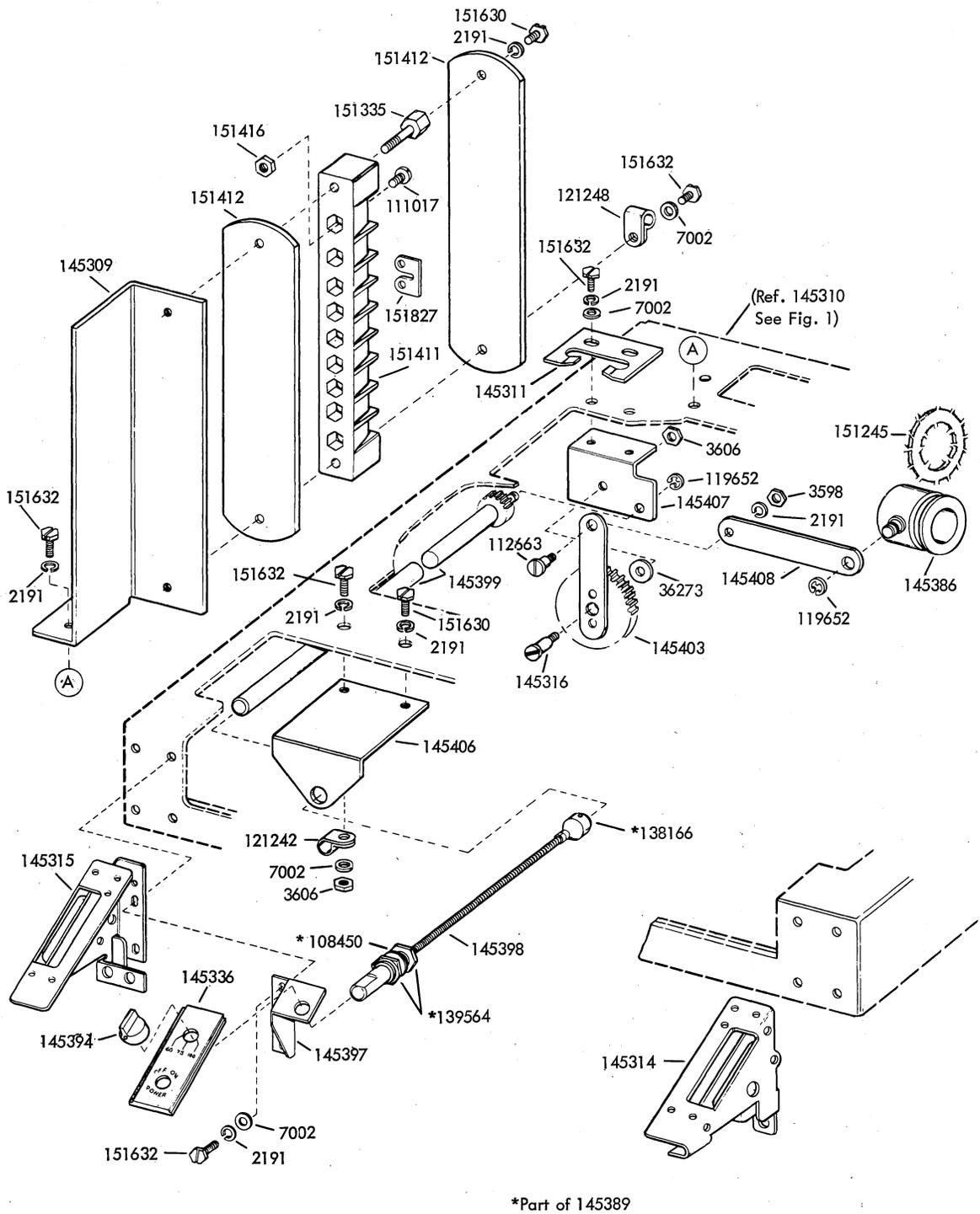


FIGURE 21. GEAR SHIFT MECHANISM FOR TAPE PRINTER KEYBOARD BASE

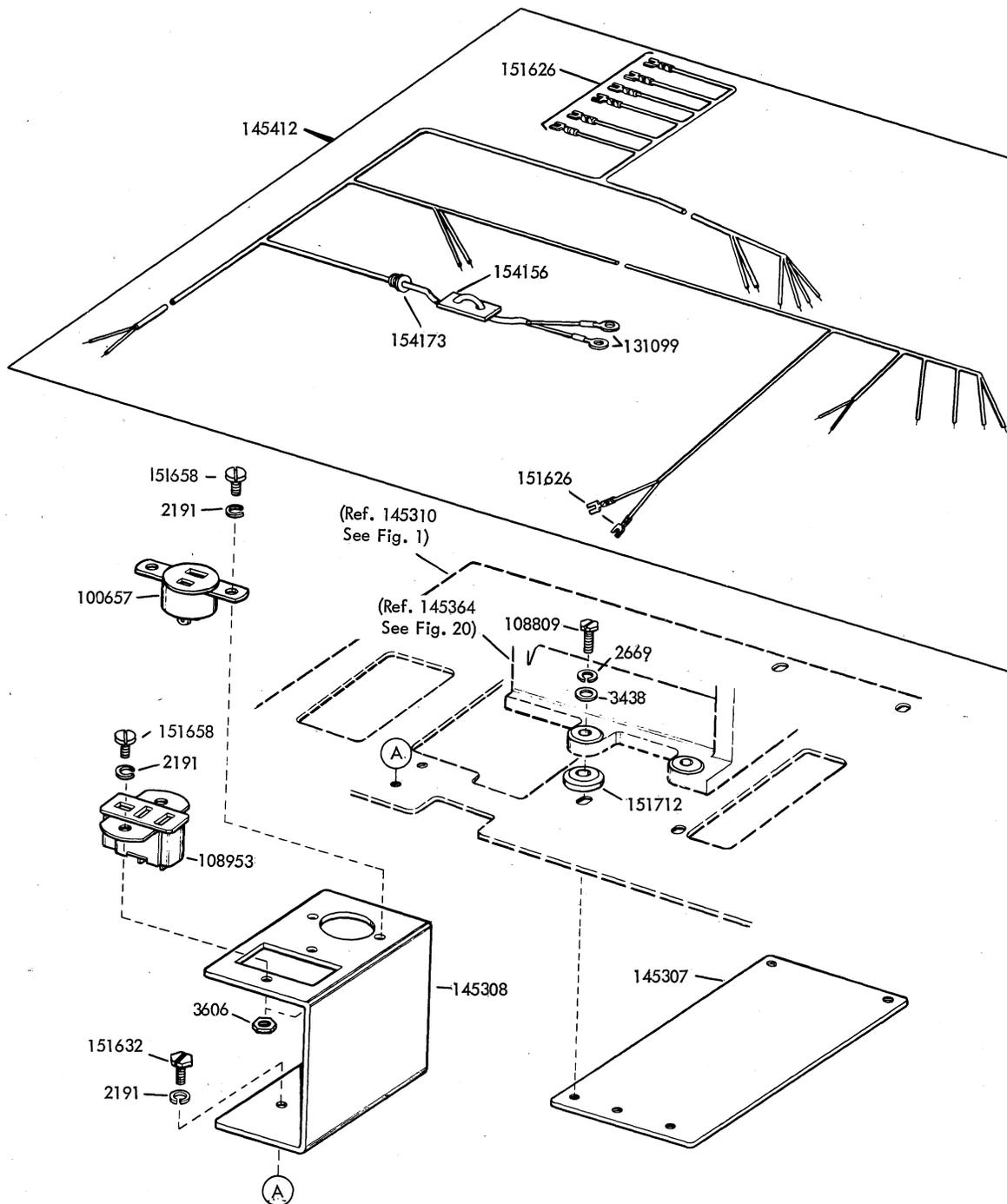


FIGURE 22. CONNECTORS AND CABLE

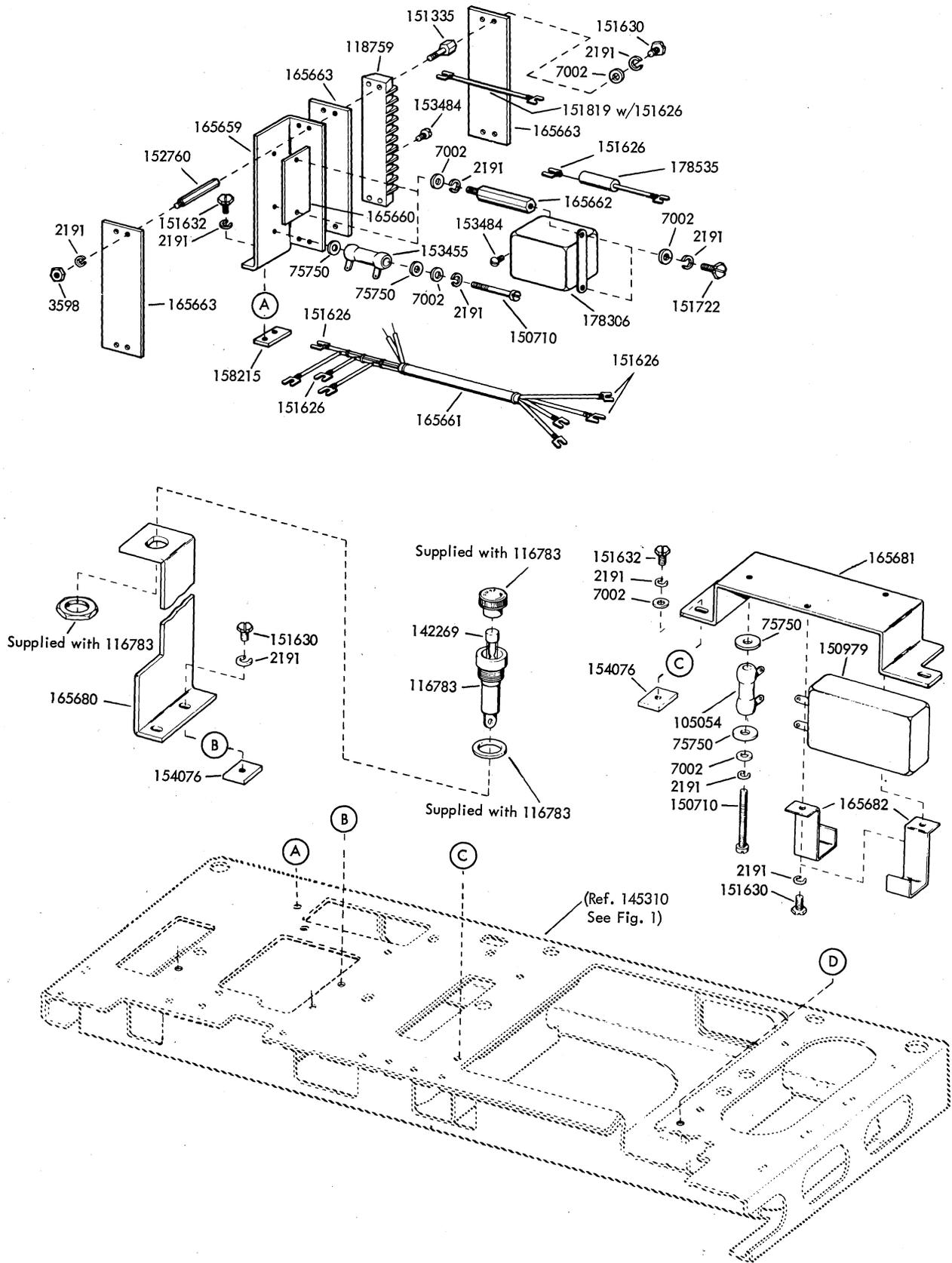
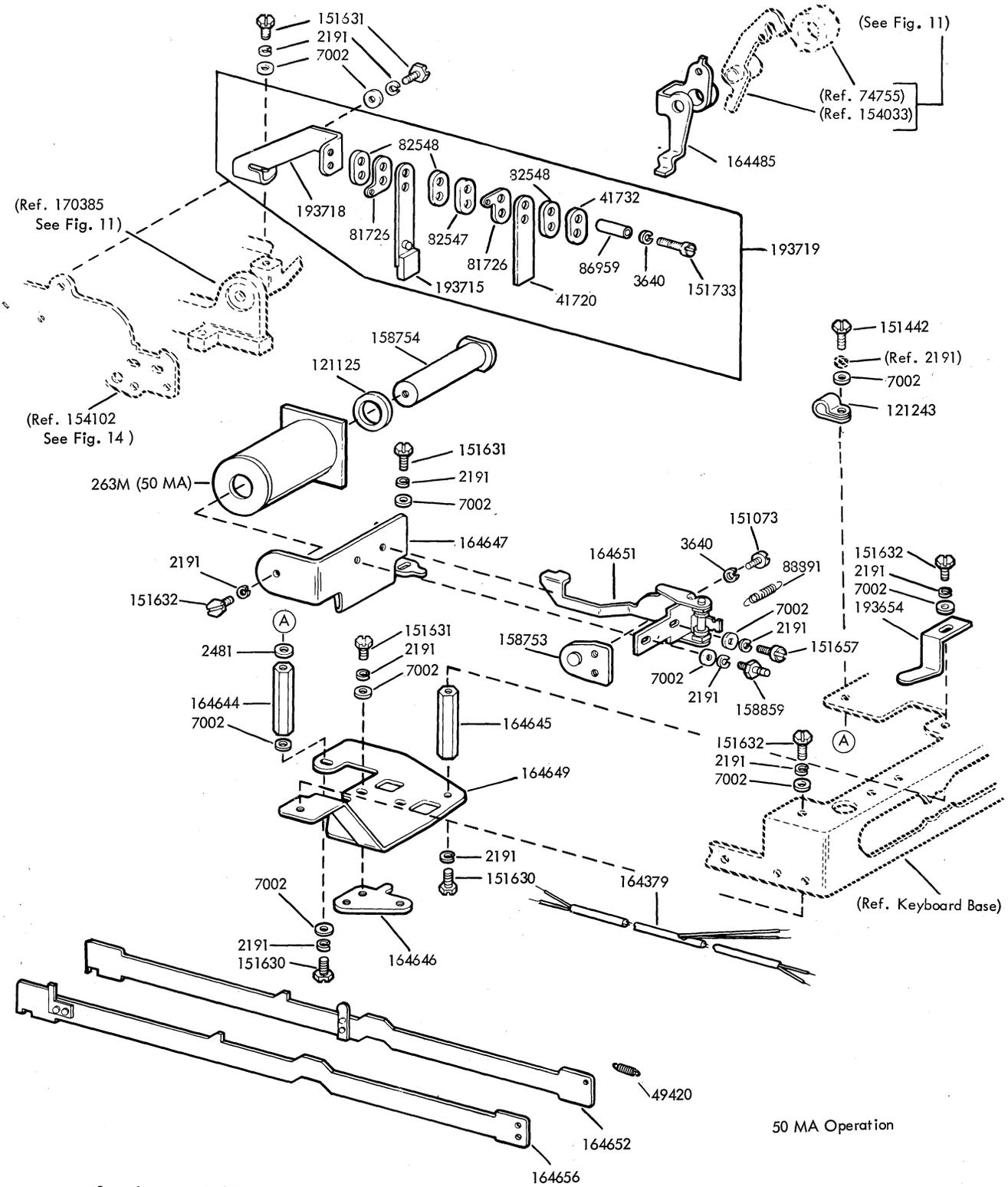


FIGURE 23. ELECTRICAL COMPONENTS FOR THE TAPE PRINTER KEYBOARD BASE



Specification 50047S

FIGURE 24. 193800 MODIFICATION KIT TO PROVIDE SYNCHRONOUS PULSED TRANSMISSION

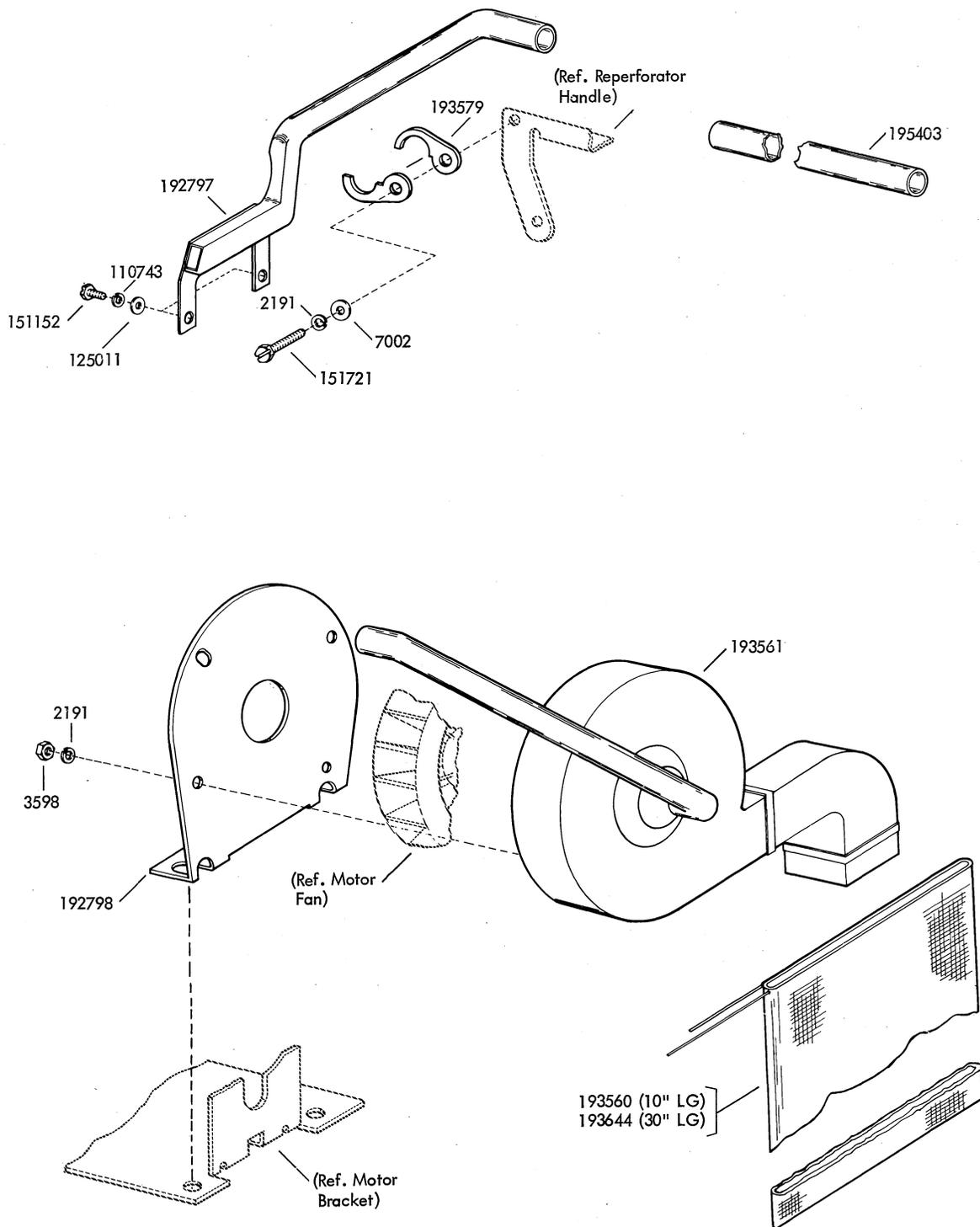
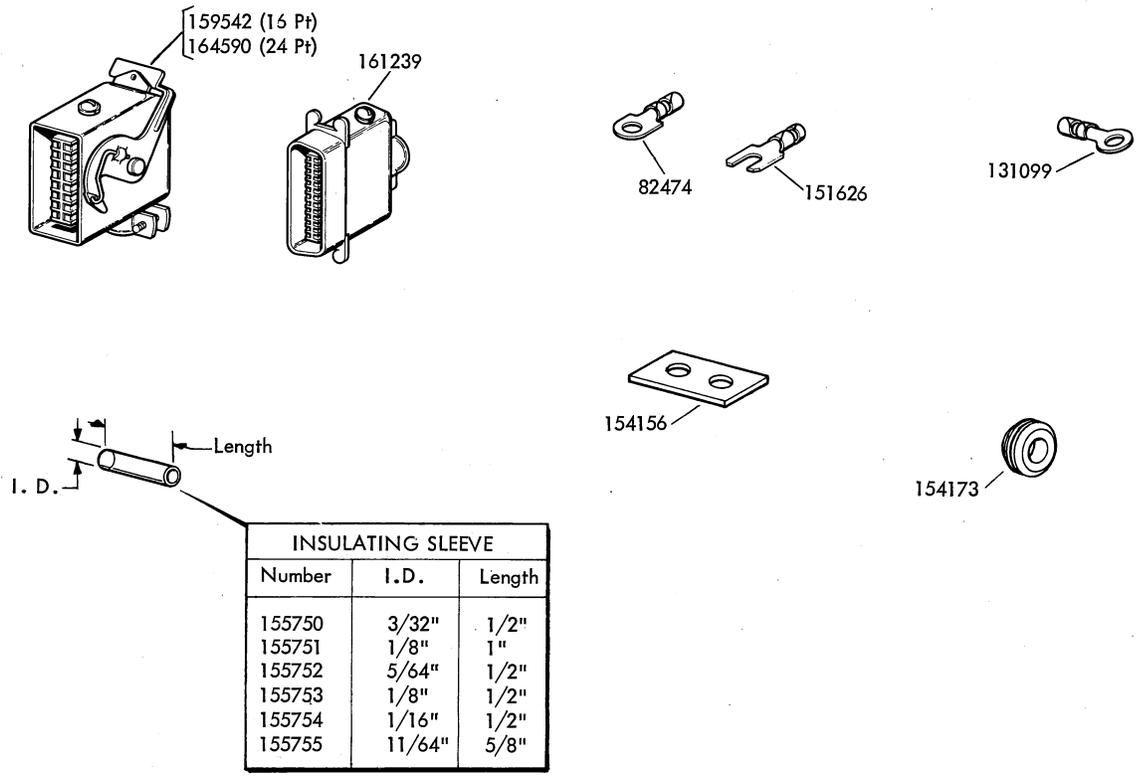


FIGURE 25. 192999 MODIFICATION KIT TO PROVIDE VACUUM CHAD REMOVAL FOR SEND-RECEIVE TYPING REPERFORATOR SET



Unit	Cable Assembly
LTPK1	- 145412, 165656
LTPK2	- 145412, 165679
LTPK3	- 165656
LTRK1	- 161878, 161892
LTRK5	- 161878, 161892
LTRK2	- 161892, 173396
LTRK3	- 172721, 173922

FIGURE 26. CABLES

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
263M	Coil, Magnet 22	100658	Connector, Plug (2 Pt) 5	145313	Washer, Felt 18
1020	Screw (6-40 x 1/4 Hex) 12	104710	Ball, Bearing 9	145314	Bracket, Right 19
1118	Screw, Shoulder (6-40) 15	104807	Washer, Flat 15, 16	145315	Bracket, Left 19
1210	Screw (2-56 x 5/8 Fil) 3, 5	104827	Bearing, Ball 6	145316	Screw, Shoulder (6-40) 19
1293	Screw (4-40 x 1/8 Fil) 14	104991	Screw (2-56 x 1/2 Fil) 16	145333	Disk W/Hub 5
2191	Washer, Lock 2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23	105054	Resistor (5 Ohm) 21	145335	Disk W/Knob 5
2322	Washer, Lock 4	108370	Washer, Felt 12	145336	Plate 19
2415	Spring 8	108450	Washer, Lock 19	145364	Bracket W/Bearing 18
2449	Washer, Lock 4	108809	Screw (10-32 x 27/32 Hex) 20	145365	Pinion (20 T) 18
2481	Washer, Flat 15, 22	108953	Connector, Receptacle (3 Pt) 3, 20	145366	Gear (56 T) 18
2669	Washer, Lock 2, 4, 6, 10, 18, 20	110435	Nut (4-40 Hex) 5	145367	Shaft, Drive 18
2846	Washer, Flat 4	110437	Spring 8	145368	Gear (27 T) 18
3438	Washer, Flat 2, 4, 6, 18, 20	110743	Washer, Lock 9, 10, 11, 12, 14, 15, 16, 23	145369	Gear (24 T) 18
3598	Nut (6-40 Hex) 2, 7, 9, 10, 12, 13, 15, 19, 21, 23	111017	Screw (6-40 x 5/16 Fil) 2, 3, 19	145370	Gear (24 T) 18
3599	Nut (4-40 Hex) 2, 14, 16	111343	Clamp 9	145372	Shaft 18
3606	Nut (6-40 Hex) 3, 4, 13, 15, 19, 20	111516	Washer, Flat 5	145373	Gear (66 T) 18
3624	Washer, Flat 16	111767	Washer, Flat 13	145374	Gear (47 T) 18
3640	Washer, Lock 2, 5, 9, 14, 22	112626	Nut (10-32 Hex) 6, 10	145375	Gear (63 T) 18
3870	Spring 5, 8, 10	112627	Nut (2-56 Hex) 16	145376	Gear (48 T) 18
4702	Spring 10	112630	Spring 2	145381	Washer, Thrust 18
6968	Washer, Flat 18	112663	Screw, Shoulder (6-40) 19	145383	Key 18
6970	Nut (3/8-32 Hex) 18	114876	Washer, Flat 15	145384	Pin, Guide 18
7002	Washer, Flat 2, 3, 5, 7, 8, 10, 13, 14, 15, 16, 19, 21, 22, 23	115122	Washer, Felt 10, 13	145385	Spring, Compression 18
7603	Spring 13	115141	Screw, Shoulder (6-40) 15	145386	Sleeve 19
8330	Washer, Flat 18	116783	Holder, Fuse 21	145389	Shaft, Idler 18, 19
8449	Spacer (.094") 5, 13	117416	Post 10	145390	Pinion (25 T) 18
22746	Spring 15	117608	Nut, Speed 7	145392	Post 18
36273	Washer, Flat 19	117608	Nut, Speed 7	145393	Bushing 18
41720	Spring, Contact 22	118384	Lens, Clear Indicator Light 7	145394	Knob 19
41732	Plate, Clamp 22	118759	Block, Terminal 21	145397	Bracket 19
42823	Washer, Flat 11	119648	Ring, Retaining 12, 16	145398	Shaft, Flexible 19
45815	Washer, Lock 5	119650	Ring, Retaining 8	145399	Shaft W/Gear 19
49420	Spring 8, 22	119651	Ring, Retaining 2, 7, 12, 13	145403	Gear W/Link (36 T) 19
70388	Spring 12	119652	Ring, Retaining 10, 15, 19	145406	Bracket, Front 19
74755	Washer, Felt 10	119653	Ring, Retaining 6, 15	145407	Bracket, Rear 19
74805	Screw (10-32 x 3/4 Hex) 10	119654	Ring, Retaining 8	145408	Link 19
75750	Washer, Insulating 21	119655	Ring, Retaining 18	145412	Cable Assembly 20, 24
76081	Washer, Flat 8, 15	119662	Screw (6-40 Spl) 15	145855	Guide, Tape 4
76099	Washer, Flat 10	120824	Washer, Felt 11	145856	Guide, Tape 4
76278	Bushing 4	120870	Wick, Felt 12	150013	Disk, Adjusting 11
76422	Spring 16	121125	Washer, Spring 22	150026	Lever, Shoe Release 11
76461	Washer, Flat 4	121242	Clamp, Cable (1/8" ID) 2, 8, 16, 19	150029	Wick, Felt 11
76964	Pin, Cotter 16	121243	Clamp, Cable (3/16" ID) 22	150043	Shoe, Secondary Clutch 11
76968	Screw, Set (6-32) 7	121244	Clamp, Cable (1/4" ID) 2	150044	Shoe, Primary Clutch 11
79890	Screw (1/4-32 x 7/8 Hex) 4	121248	Clamp, Cable (1/2" ID) 19	150241	Spring 11
80581	Spring 12, 13	121575	Screw (10-32 x 5/16 Hex) 3	150411	Washer, Flat 15
81596	Screw (10-32 x 1-3/8 Hex) 18	122245	Capacitor (43-48 MFD) 3	150440	Hub 4
81726	Terminal 22	124177	Washer, Lock 15	150441	Gear (21 T) 4
82474	Terminal 24	125011	Washer, Flat 9, 10, 23	150507	Spring 15
82547	Insulator (.094") 22	125015	Washer, Flat 4, 7, 13	150710	Screw (6-40 x 1-1/4 Fil) 21
82548	Insulator (.062") 22	125126	Screw (2-56 x 9/32 Fil) 14	150923	Washer, Felt 12, 13
86304	Spring 14	125181	Screw (2-56 x 3/8 Fil) 2	150966	Insulator (1-4) 2
86742	Nut (4-40 Hex) 13	125247	Spring, Compression 16	150979	Capacitor (1/2 MFD) 21
86959	Bushing, Insulating 22	125250	Spring 12	150990	Washer, Felt 13
88891	Spring 22	128271	Screw, Shoulder (6-40) 15	150991	Washer, Felt 8, 10
90606	Spring 5	131099	Terminal 20, 24	150992	Stud 5
90679	Washer, Felt 13	138166	Screw, Set (8-32) 19	151036	Screw, Shoulder (4-40) 13
90790	Washer, Flat 18	139564	Nut (3/8-32 Hex) 19	151045	Bar, Space 7
90791	Washer, Lock 14	139752	Screw (4-40 x 11/64 Hex) 9, 15	151060	Gear Set (60 WPM) 17
93117	Washer, Lock 3, 5, 16	142269	Fuse (3 Amp SL-BL) 21	151073	Screw (4-40 x 5/32 Fil) 22
97393	Screw, Shoulder (6-40) 15	145307	Plate, Nut 20	151075	Gear Set (75 WPM) 17
100657	Connector, Receptacle (2 Pt) 3, 20	145308	Bracket 20	151080	Washer, Flat 9
		145309	Bracket 19	151100	Gear Set (100 WPM) 17
		145310	Base 2	151113	Strip, Mounting 2
		145311	Plate, Stop 19	151118	Plate, Spacing 2, 3
				151126	Spacer (25/64" ID) 6
				151130	Pinion (14 T) 17

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
151131	Gear (96 T) 17	152766	Gear Set (67 WPM) 17	154092	Shaft 6
151132	Pinion (17 T) 17	152839	Spring, Latch 15	154094	Clamp 10
151133	Gear (93 T) 17	152893	Screw (4-40 x 1/4 Hex) 9	154095	Eccentric, Contact Box 14
151134	Pinion (20 T) 17	153252	Link 2	154096	Bushing, Eccentric 10
151135	Gear (84 T) 17	153455	Resistor (600 Ohm) 21	154101	Plate, Rear 10
151146	Strap, Mounting 2, 3	153484	Screw (6-32 Spl) 21	154102	Plate, Rear 13
151152	Screw (4-40 x 3/16 Hex) 9, 10, 14, 15, 16, 23	153538	Screw (6-40 x 7/16 Hex) 5	154105	Post, Transfer Bail 12
151171	Toggle, Contact 14	153539	Screw (6-40 x 11/16 Hex) 5	154106	Bracket 2
151180	Link, Toggle 14	153799	Screw (4-40 x 21/64 Hex) 15	154117	Bail, Space Bar 7
151182	Washer, Insulating 14	153817	Screw (4-40 x 3/8 Hex) 2, 14	154119	Bracket Space Bar 7
151223	Screw, Shoulder (4-40) 7	153841	Screw (6-40 x 9/16 Hex) 2, 10	154120	Lever, Code Bar 8
151224	Screw, Pilot (6-40) 7	154000	Base 2	154121	Lever, Space 8
151228	Bracket W/Bearing 6	154001	Bar, Code (#1) 8	154122	Lever, Keyboard Lock 8
151245	Washer, Felt 19	154002	Bar, Code (#2) 8	154123	Lever, Function 8
151329	Switch, Sensitive 2	154003	Bar, Code (#3) 8	154124	Lever, Repeat and Keyboard Unlock 8
151335	Stud 2, 3, 19, 21	154004	Bar, Code (#4) 8	154125	Spring 8
151346	Screw (6-40 x 3/8 Fil) 6, 18	154005	Bar, Code (#5) 8	154127	Nut (6-40 Hex) 13
151411	Block, Terminal 3, 19	154008	Guide, Code Bar 8	154129	Bar, Clutch Trip 8
151412	Insulator (1-9) 3, 19	154009	Plate, Front 12	154130	Box, Contact 14
151415	Block, Terminal 2	154010	Bail, Transfer 12	154131	Cover, Contact Box 14
151416	Nut (6-40 Hex) 2, 3, 19	154013	Bracket, Spring 8	154138	Washer, Felt 11
151442	Screw (6-40 x 1/2 Hex) 4, 10, 22	154014	Post, Guide 12	154140	Bail, Locking 12
151572	Washer, Lock 3	154015	Post 13	154154	Cam, Signal Generator 11
151610	Washer, Flat 18	154016	Shaft 8	154156	Grommet, Rubber 20, 24
151626	Terminal 3, 16, 20, 21, 24	154018	Post, Locking Bail 12	154165	Box Assembly, Contact 14
151630	Screw (6-40 x 1/4 Hex) 2, 3, 4, 5, 7, 8, 18, 19, 21, 22	154019	FOLLOWER, Eccentric 11	154166	Suppressor, Arc 14
151631	Screw (6-40 x 5/16 Hex) 2, 3, 4, 6, 7, 8, 10, 15, 16, 18, 22	154021	Link 7	154173	Plate 20, 24
151632	Screw (6-40 x 3/8 Hex) 2, 4, 14, 18, 19, 20, 21, 22	154023	Latch, Lock Bar 8	154178	Spring 12
151637	Screw (4-40 x 1/4 Fil) 2, 15	154025	Plate, Adjusting 13	154179	Bail, Universal 9
151642	Screw (6-40 x 3/4 Fil) 4	154027	Bellcrank 13	154183	Blade, Front 9
151657	Screw (6-40 x 1/4 Fil) 22	154029	Wick, Felt 11	154184	Blade, Rear 9
151658	Screw (6-40 x 5/16 Fil) 18, 20	154030	Shaft 11	154189	Insulator 14
151659	Screw (6-40 x 1/2 Fil) 7, 15	154032	Sleeve, Gear 11	154190	Filter, R.F. 14
151678	Screw, Pilot (1/4-32) 2	154033	Lever, Clutch Latch 10	154191	Spring 13
151685	Screw (4-40 x 5/16 Fil) 15	154034	Lever, Clutch Stop 10	154194	Base 14
151686	Screw (4-40 x 3/8 Fil) 16	154036	Plate, Detent 12	154197	Plug, Button 7
151690	Screw (10-32 x 5/16 Fil) 4	154037	Lever 6	154199	Shim (.005") 2
151692	Screw (6-40 x 3/16 Fil) 16	154039	Bracket 2	154201	Shim (.014") 2
151693	Screw (6-40 x 9/16 Fil) 4	154040	Lever, Transfer 12	154210	Bracket, Left 7
151695	Screw (6-40 x 5/8 Hex) 4	154041	Post, Stop 12	154211	Bracket, Right 7
151712	Button, Pivot 6, 20	154042	Terminal 14	154212	Frame, Front 7
151721	Screw (6-40 x 3/4 Hex) 23	154043	Terminal 14	154215	Spring 13
151722	Screw (6-40 x 3/16 Hex) 8, 12, 21	154045	Screw (6-40 Spl) 14	154217	Wick, Leather 12
151723	Screw (10-32 x 3/8 Hex) 2, 4, 5	154046	Stud 10	154225	Box Assembly, Contact 14
151724	Screw (10-32 x 5/8 Hex) 6	154047	Post, Spring 12	154226	Box W/Strap 14
151725	Screw (10-32 x 3/4 Fil) 6	154051	Screw, Shoulder (6-40) 13	154236	Lever, Latch 10
151728	Spring 11	154052	Bar, Locking 8	154237	Lever, Non-Repeat 13
151731	Screw (4-40 x 7/8 Fil) 16	154053	Bail, Clutch Trip 10	154238	Extension 9
151733	Screw (4-40 x 9/16 Fil) 5, 22	154056	Bracket, Contact Box 14	154239	Extension W/Post 9
151737	Screw (4-40 x 11/16 Hex) 11	154059	Bracket, Function Bail 6	154240	Bail, Code Bar 13
151818	Jumper (4-1/4" Black) 3	154066	Lever 6	154241	Stud 13
151819	Jumper (3" Black) 3, 21	154068	Bracket, Right Guide 8	154350	Modification Kit 13
151820	Spring, Contact 14	154069	Bracket, Left Guide 8	154386	Plate, Adjusting 13
151827	Strap, Terminal 3, 19	154070	Guide, Code Lever 8	154662	Spacer 6
151843	Screw, Adjusting (6-40) 9	154071	Screw, Pilot (1/4-32) 8	154663	Shaft 6
151880	Nut (4-40 Hex) 14, 15	154076	Plate, Nut 2, 21	154694	Disk, Clutch Cam 11
152045	Guard, Gear 2	154079	Stud 13	155750	Sleeve, Insulating (3/32 ID x 1/2" Lg) 24
152760	Stud 21	154080	Lock, Wedge 8	155751	Sleeve, Insulating (1/8 ID x 1" Lg) 24
152764	Gear (81 T) 17	154081	Plate, Retainer 9	155752	Sleeve, Insulating (5/64 ID x 1/2" Lg) 24
152765	Pinion (13 T) 17	154083	Spacer, Cam 11	155753	Sleeve, Insulating (1/8 ID x 1/2" Lg) 5, 24
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