



BULLETIN 1167B

PARTS
 MODEL 28
 TYPING REPERFORATOR SET
 (LPR, LRB, LRC, LT)

TELETYPE[®]
CORPORATION
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LIST OF EFFECTIVE PAGES

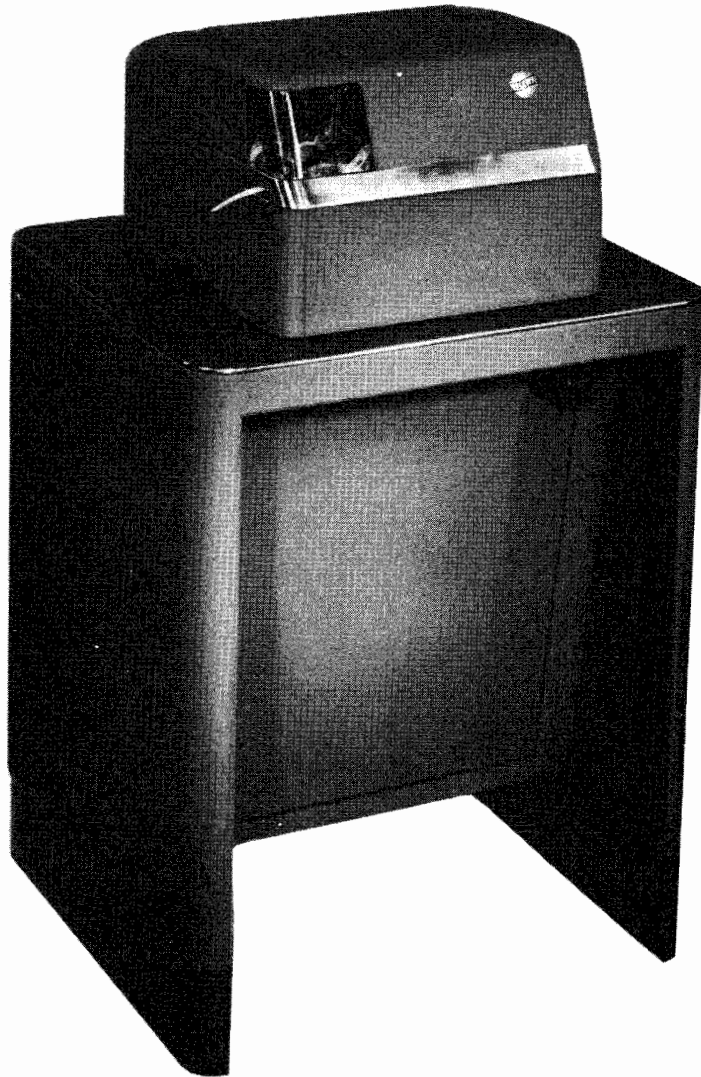
MARCH, 1959

(Supersedes July, 1958 issue)

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The above list indicates the effective pages as of the date of issue. Upon receipt of change pages, insert them numerically and discard any superseded pages.

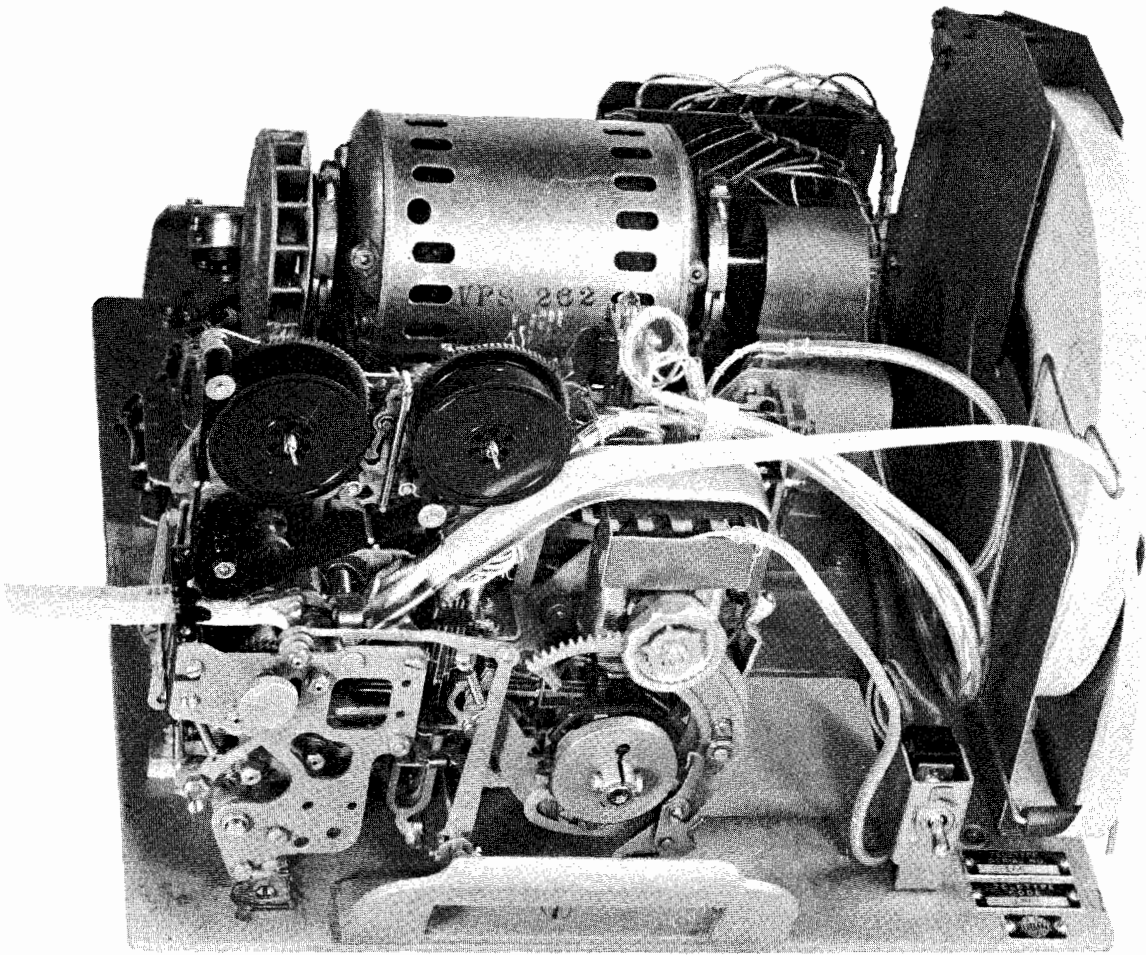
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MODEL 28 TYPING REPERFORATOR SET

consists of

TYPING REPERFORATOR UNIT (LPR), REPERFORATOR BASE (LRB), MOTOR UNIT (LMU), REPERFORATOR COVER (LRC),
REPERFORATOR TABLE (LT) and ELECTRICAL SERVICE UNIT (LESU)



MODEL 28 TYPING REPERFORATOR SET (Set illustrated for rack or cabinet mounting)

consists of

TYPING REPERFORATOR UNIT (LPR), REPERFORATOR BASE (LRB) and MOTOR UNIT (LMU)

TELETYPE AND BELL SYSTEM CODE REFERENCE CHARTS

Components of the MODEL 28 TYPING REPERFORATOR SET covered in this bulletin:		
Description	Teletype Code	Bell System Code
BASE (Single Plate) (Double Plate)	LRB2	28A
	LRB3	
TYPING REPERFORATOR UNIT	LPR1	28A (includes AWA Typewheel)
	LPR4	
	LPR5	28B (includes AWA Typewheel)
	LPR7	
MOTOR UNIT	LMU3	28A
ELECTRICAL SERVICE UNIT	LESU12	28D
COVER	LPRC200**	28A**
TABLE	LT200**	28A**

Components of the MODEL 28 REPERFORATOR TRANSMITTER SET* Covered in this bulletin:		
TYPING REPERFORATOR UNIT	LPR3	28A (includes AWA Typewheel) 28D (includes ARC Typewheel)
*For other components of the set, see parts bulletin 1168B.		

Components of the MODEL 28 AUTOMATIC SEND-RECEIVE SET (ASR)* covered in this bulletin:		
TYPING REPERFORATOR UNIT	LPR6 LPR10	28D (includes ARC Typewheel & LAK4YC Keyboard Base)
*For other components of the set, see parts bulletin 1169B.		

PAINT FINISH COLOR CODE CHART		
(For parts and assemblies requiring a paint finish)		
Teletype Code	Bell System Code	Paint Finish
AA	37	Black Wrinkle
AB	40	Gray Green Wrinkle
AC	39	Light Brown Wrinkle
AD	38	Dark Brown Wrinkle
Suffix to be applied following the part number		

BELL SYSTEM ONLY

When ordering parts from this bulletin, prefix each number with the letters TP.

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SECTION 1

BASES AND VARIABLE FEATURES

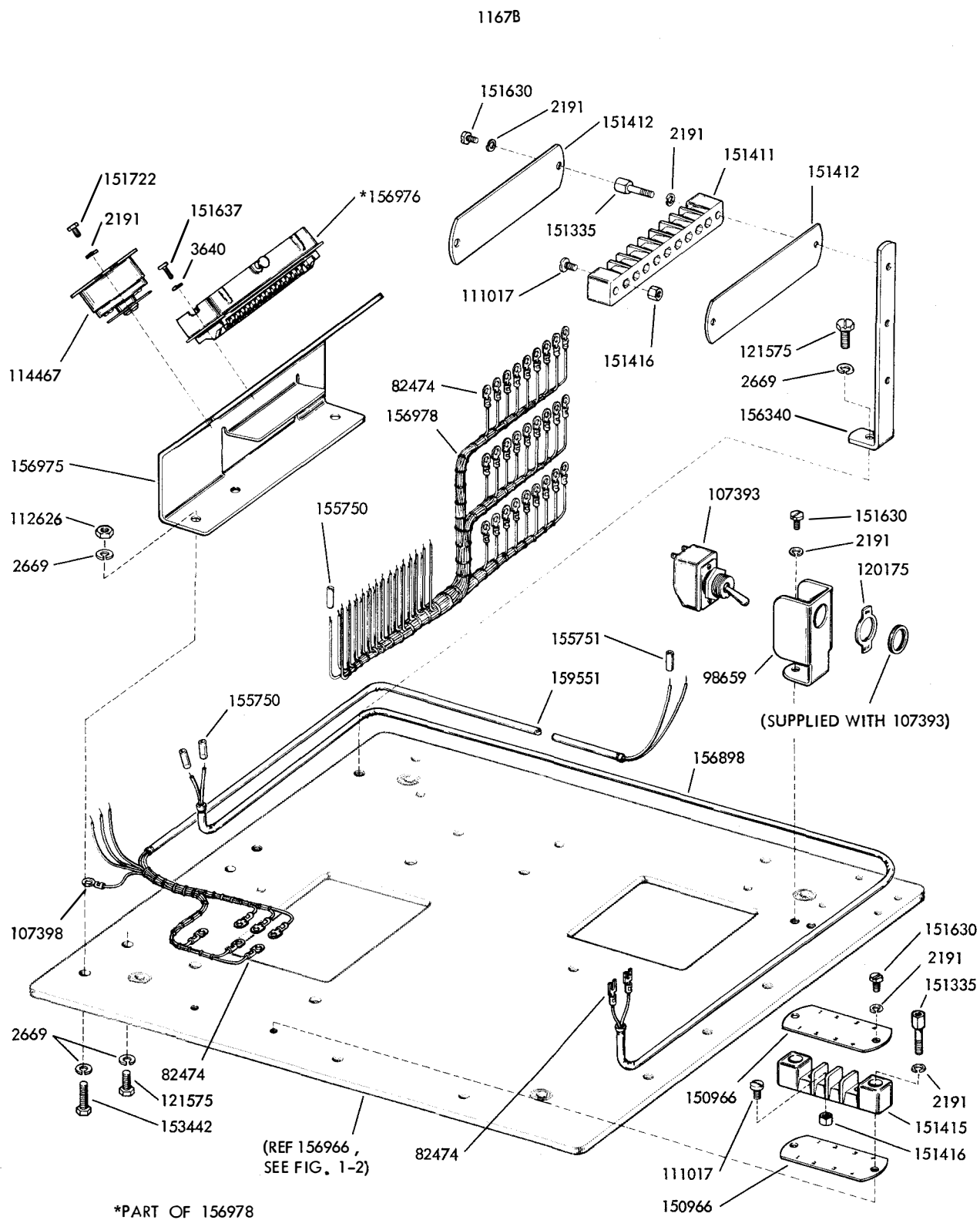


FIGURE 1-1. REPERFORATOR BASE (SINGLE PLATE)

NUMERICAL INDEX - FIGURE 1-1

Part Number	Description
2191	Washer, Lock
2669	Washer, Lock
3640	Washer, Lock
82474	Terminal
98659	Bracket, Switch Mounting
107393	Switch, Power Toggle
107398	Terminal
111017	Screw (6-40 x 5/16 Fil.)
112626	Nut (10-32 Hex.)
114467	Connector, Plug (3 Point) (Mates with 114466)
120175	Plate, Switch Instruction
121575	Screw, (10-32 x 5/16 Hex.)
150966	Insulator, Terminal Block
151335	Stud, Terminal Block
151411	Block, Terminal Insulating
151412	Insulator, Terminal Block
151415	Block, Terminal Insulating
151416	Nut (6-40 Hex.)
151630	Screw (6-40 x 1/4 Hex.)
151637	Screw (4-40 x 1/4 Fil.)
151722	Screw (6-40 x 3/16 Hex.)
153442	Screw (10-32 x 1/2 Hex.)
155750	Sleeve, Insulating
155751	Sleeve, Insulating
156340	Bracket, Terminal Block Mounting
156898	Cable Assembly, Selector
156975	Bracket, Connector Mounting
156976	Connector, Plug (32 Point)
156978	Cable Assembly, Control
159551	Cable Assembly, Power

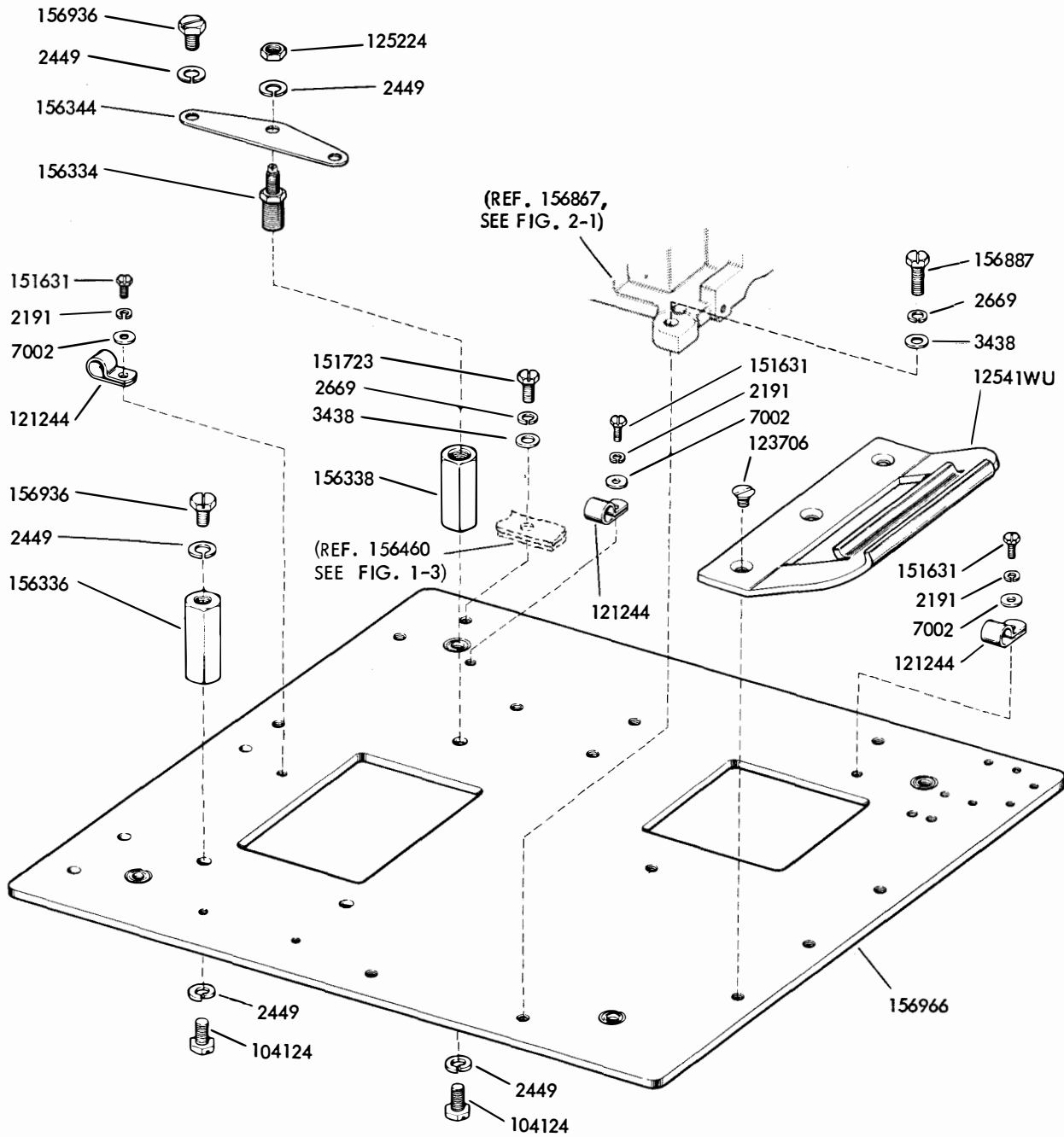


FIGURE 1-2. REPERFORATOR BASE (SINGLE PLATE)

NUMERICAL INDEX - FIGURE 1-2

Part Number	Description
2191	Washer, Lock
2449	Washer, Lock
2669	Washer, Lock
3438	Washer, Flat
7002	Washer, Flat
12541WU	Handle
104124	Screw (1/4-32 x 11/32 Hex.)
121244	Clamp, Cable
123706	Screw (10-32 x 1/4 Flat)
125224	Nut (1/4-32 Hex.)
151631	Screw (6-40 x 5/16 Hex.)
151723	Screw (10-32 x 3/8 Hex.)
156334	Stud, Motor Adjusting
156336	Post, Motor Mounting (Left)
156338	Post, Motor Mounting (Right)
156344	Bracket, Motor Adjusting
156887	Screw (10-32 x 9/16 Hex.)
156936	Screw (1/4-32 x 5/16 Hex.)
156966	Plate, Base (w/Feet)

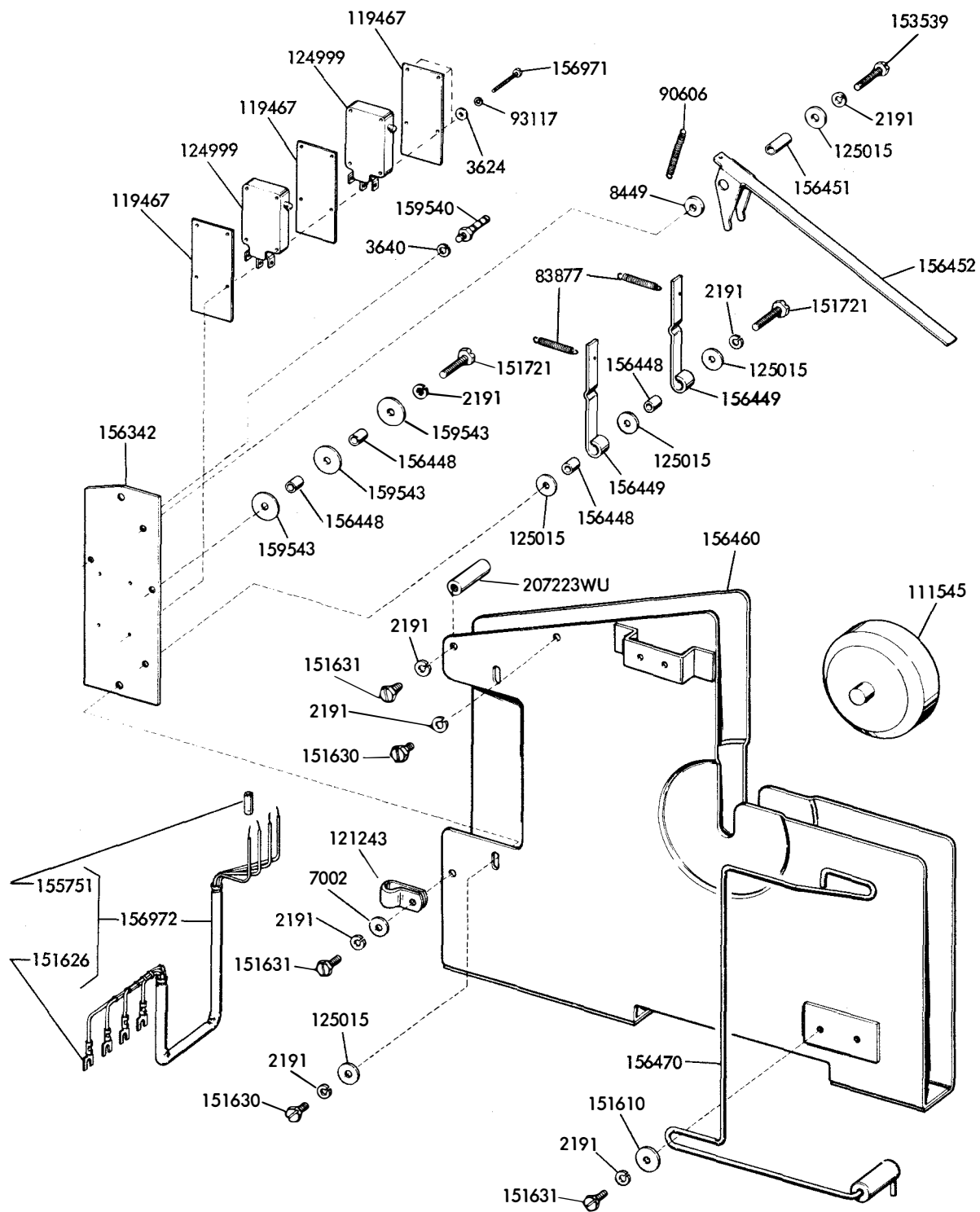


FIGURE 1-3. TAPE CONTAINER

NUMERICAL INDEX - FIGURE 1-3

Part Number	Description
2191	Washer, Lock
3624	Washer, Flat
3640	Washer, Lock
7002	Washer, Flat
8449	Washer, Flat
83877	Spring, Switch Lever
90606	Spring, Tape Out Lever
93117	Washer, Lock
111545	Filler, Wood
119467	Insulator, Switch
121243	Clamp, Cable
124999	Switch, Tape-Out Sensitive
125015	Washer, Flat
151610	Washer, Flat
151626	Terminal
151630	Screw (6-40 x 1/4 Hex.)
151631	Screw (6-40 x 5/16 Hex.)
151721	Screw (6-40 x 3/4 Hex.)
153539	Screw (6-40 x 11/16 Hex.)
155751	Sleeve, Insulating
156342	Plate, Switch Mounting
156448	Bushing
156449	Lever, Switch
156451	Bushing
156452	Lever, Tape-Out
156460	Panel Assembly
156470	Guide, Tape (w/Holder)
156971	Screw (2-56 x 3/4 Fil.)
156972	Cable Assembly, Tape-Out
159540	Post, Spring
159543	Washer, Flat
207223WU	Post, Spacer

NUMERICAL INDEX - FIGURE 1-4

Part Number	Description	Part Number	Description
1160	Screw (6-40 x 5/16 Fil.)	159603	Washer, Captive
2191	Washer, Lock	159604	Screw, Special (10-32)
2449	Washer, Lock	159610	Mount, Vibration
2669	Washer, Lock	159928	Cable Assembly, Control
3438	Washer, Flat	159929	Bracket, Lamp Mounting
3598	Nut (6-40 Hex.)	159931	Clamp, Cable
3640	Washer, Lock	159932	Keeper
3646	Washer, Lock		
6565	Screw (8-32 x 1-1/4 Fil.)		
7002	Washer, Flat		
82474	Terminal		
99381	Foot, Leather		
104124	Screw (1/4-32 x 11/32 Hex.)		
111017	Screw (6-40 x 5/16 Fil.)		
114467	Connector, Plug (Mates with 114466)		
116783	Holder, Fuse		
120175	Plate, Instruction		
121242	Clamp, Cable		
121575	Screw (10-32 x 5/16 Hex.)		
124396	Switch Assembly, Power		
125224	Nut (1/4-32 Hex.)		
129919	Fuse (4 Amp.)		
151335	Stud, Terminal Block		
151411	Block, Terminal		
151412	Insulator, Terminal Block		
151416	Nut (6-40 Hex.)		
151562	Lamp, Tape Out		
151606	Screw (10-32 x 1/4 Hex.)		
151626	Terminal		
151630	Screw (6-40 x 1/4 Hex.)		
151631	Screw (6-40 x 5/16 Hex.)		
151637	Screw (4-40 x 1/4 Fil.)		
151722	Screw (6-40 x 3/16 Hex.)		
151827	Strap, Terminal		
155750	Sleeve, Insulating		
155755	Sleeve, Insulating		
156334	Stud, Motor Adjusting		
156336	Post, Motor Mounting (Left)		
156337	Washer, Flat		
156338	Post, Motor Mounting (Right)		
156339	Bushing, Mount		
156344	Bracket, Motor Adjusting		
156444	Plate, Lower Base		
156445	Bracket, Switch		
156446	Handle		
156879	Plate, Upper Base		
156887	Screw (10-32 x 9/16 Hex.)		
156936	Screw (1/4-32 x 5/16 Hex.)		
158215	Plate, Nut (6-40)		
159542	Connector, Receptacle		
159589	Bracket, Connector Mounting		
159592	Cable Assembly, Lamp		

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GEAR SETS (ORDER SEPARATELY)						
SET NUMBER	PINION	DRIVEN GEAR	SPEED			
			7.00 UNIT CODE		7.42 UNIT CODE	
			O.P.M.	W.P.M.	O.P.M.	W.P.M.
161519	161104	161103	---	---	404	67 (50 BAUD)
161654	156982	156981	390	65	368	60
161655	156984	156983	---	---	460	75
161656	156986	156985	636	106	600	100

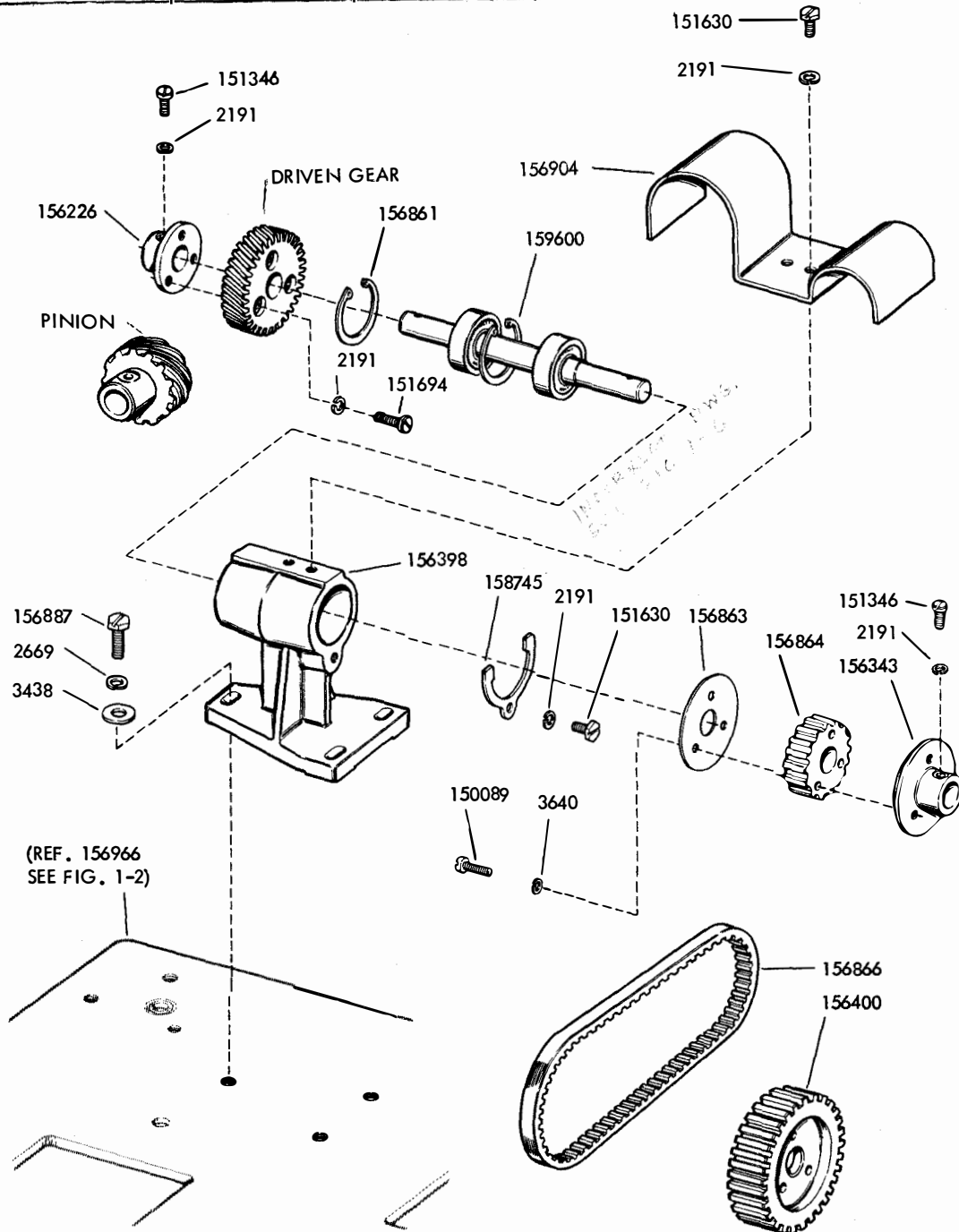
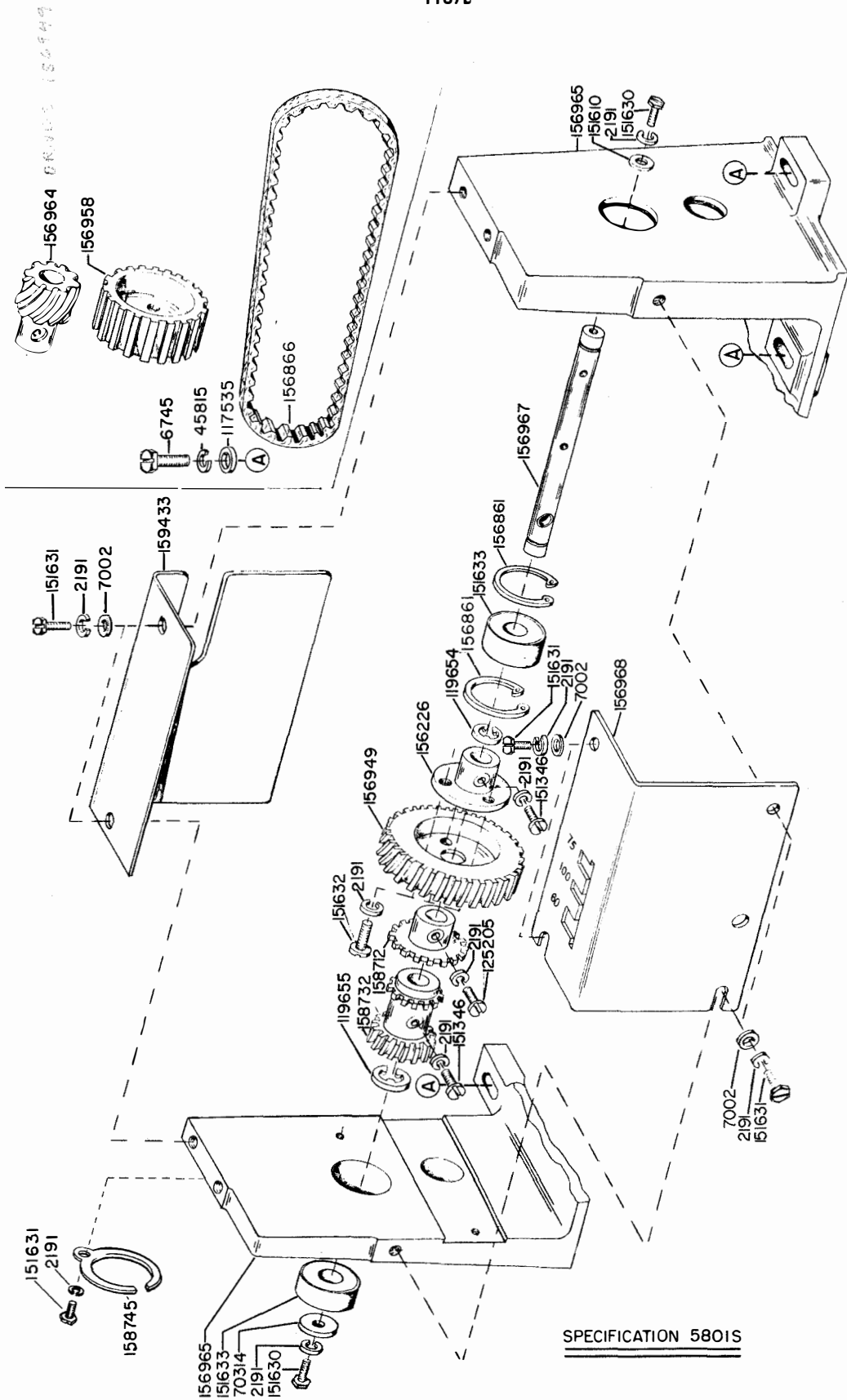


FIGURE 1-5. 159377 MODIFICATION KIT TO PROVIDE SINGLE SPEED DRIVE

NUMERICAL INDEX - FIGURE 1-5

Part Number	Description
2191	Washer, Lock
2669	Washer, Lock
3438	Washer, Flat
3640	Washer, Lock
150089	Screw (4-40 x 1/2 Fil)
151346	Screw (6-40 x 3/8 Fil)
151630	Screw (6-40 x 1/4 Hex)
151694	Screw (6-40 x 11/32 Fil)
156226	Hub, Driven Gear
156343	Hub, Drive Sprocket
156398	Holder, Bearing
156400	Sprocket, Driven (28T)
156861	Ring, Retaining
156863	Retainer, Belt
156864	Sprocket, Drive (16T)
156866	Belt, Timing
156887	Screw (10-32 x 9/16 Hex)
156904	Guard, Intermediate Drive
156981	Gear, Driven Helical (44T)
156982	Pinion, Motor Drive Helical (9T)
156983	Gear, Driven Helical (47T)
156984	Pinion, Motor Drive Helical (12T)
156985	Gear, Driven Helical (42T)
156986	Pinion, Motor Drive Helical (14T)
158745	Clamp, Bearing
159600	Shaft, Intermediate Drive (W/Bearing)
161103	Gear, Driven Helical (49T)
161104	Pinion, Motor Drive Helical (11T)



SPECIFICATION 5801S

FIGURE I-6. I59417 MODIFICATION KIT TO PROVIDE VARIABLE SPEED DRIVE
(INCLUDES ALL PARTS ON THIS PAGE AND PAGE I-14)

NUMERICAL INDEX - FIGURE 1-6

Part Number	Description
2191	Washer, Lock
6745	Screw (10-32 x 1/2 Hex)
7002	Washer, Flat
45815	Washer, Lock
70314	Washer, Flat
117535	Washer, Flat
119654	Ring, Retaining
119655	Ring, Retaining
125205	Screw (6-40 x 7/16 Fil)
151346	Screw (6-40 x 3/8 Fil)
151610	Washer, Flat
151630	Screw (6-40 x 1/4 Hex)
151631	Screw (6-40 x 5/16 Hex)
151632	Screw (6-40 x 3/8 Hex)
151633	Bearing, Ball
156226	Hub, Gear
156861	Ring, Retaining (Internal)
156866	Belt, Timing
156949	Gear, Driven (36 teeth)
156958	Sprocket, Driven 21 T
156964	Gear, Helical (9 teeth)
156965	Frame, Gear Shift
156967	Shaft, Gear Shift
156968	Plate, Gear Shift Guide
158712	Gear, Helical (26 teeth)
158732	Gear (W/Disk)
158745	Clamp, Bearing
159433	Plate, Grease Retaining

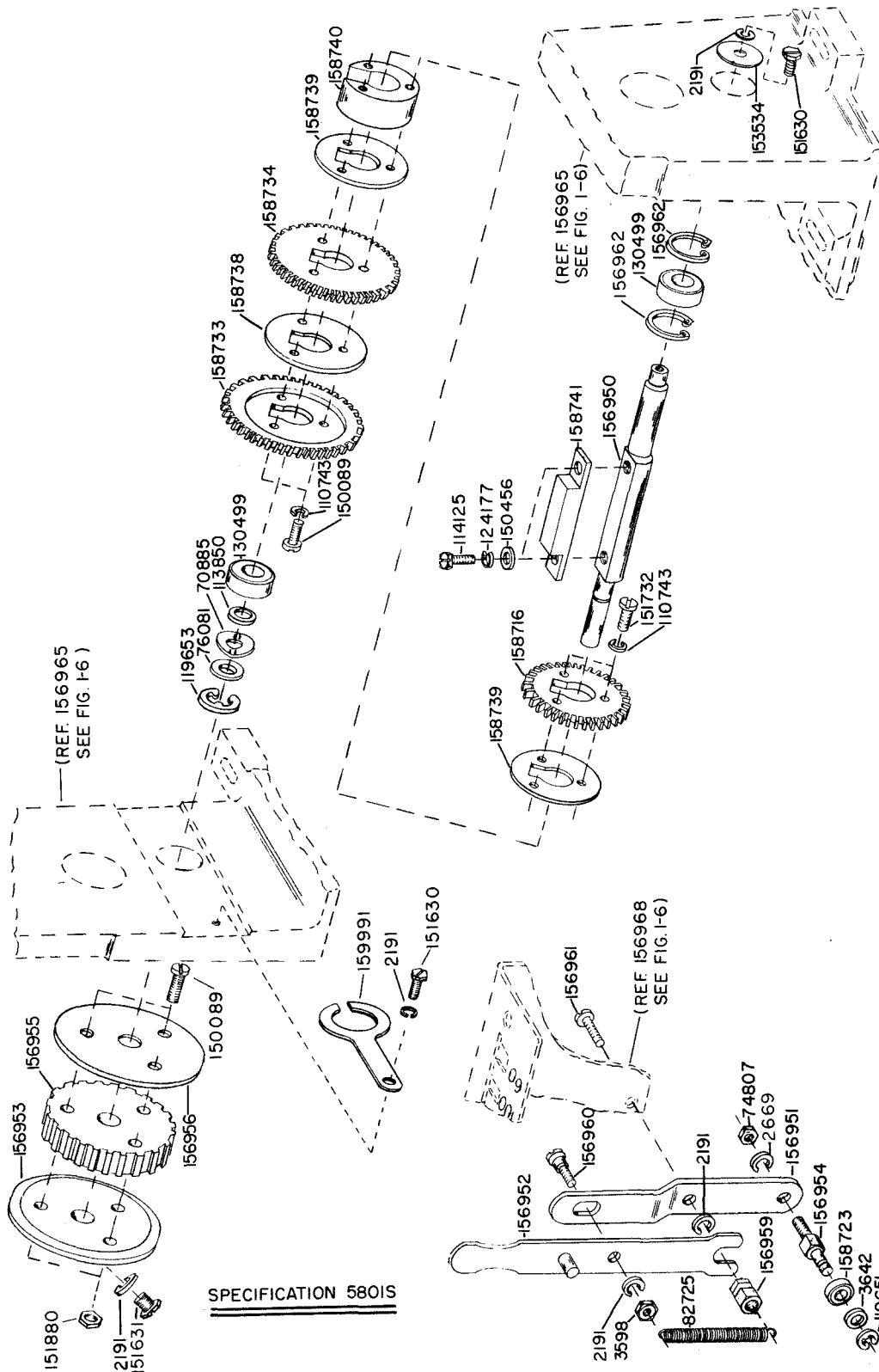


FIGURE 1-7. 159417 MODIFICATION KIT TO PROVIDE VARIABLE SPEED DRIVE
 (INCLUDES ALL PARTS ON THIS PAGE AND PAGE 1-12)

NUMERICAL INDEX - FIGURE 1-7

Part Number	Description
2191	Washer, Lock
2669	Washer, Lock
3598	Nut (6-40 Hex)
3642	Washer, Flat
70885	Washer, Spring
74807	Nut (10-32 Hex)
76081	Washer, Flat
82725	Spring, Shift Lever
110743	Washer, Lock
113850	Washer, Flat
114125	Screw (6-40 x 3/8 Hex)
119651	Ring, Retaining
119653	Ring, Retaining
124177	Washer, Lock
130499	Bearing, Ball
150089	Screw (4-40 x 1/2 Fil)
150456	Washer, Flat
151630	Screw (6-40 x 1/4 Hex)
151631	Screw (6-40 x 5/16 Hex)
151732	Screw (6-40 x 11/32 Fil)
151880	Nut (4-40 Hex)
153534	Washer, Flat
156950	Shaft, Gear Shift
156951	Link, Shift Lever
156952	Lever, Gear Shift (W/Post)
156953	Hub, Drive Sprocket
156954	Stud
156955	Sprocket, Drive (25 teeth)
156956	Retainer, Belt
156959	Bushing
156960	Screw, Shoulder (6-40)
156961	Screw, Shoulder (6-40)
156962	Ring, Retaining (Internal)
158716	Gear (39 teeth)
158723	Roller, Shift Lever
158733	Gear (44 teeth)
158734	Gear (47 teeth)
158738	Spacer, Gear
158739	Disk, Gear
158740	Block, Gear
158741	Bar, Driven Shaft
159991	Plate, Gear



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SECTION 2

TYPING REPERFORATOR UNITS AND VARIABLE FEATURES

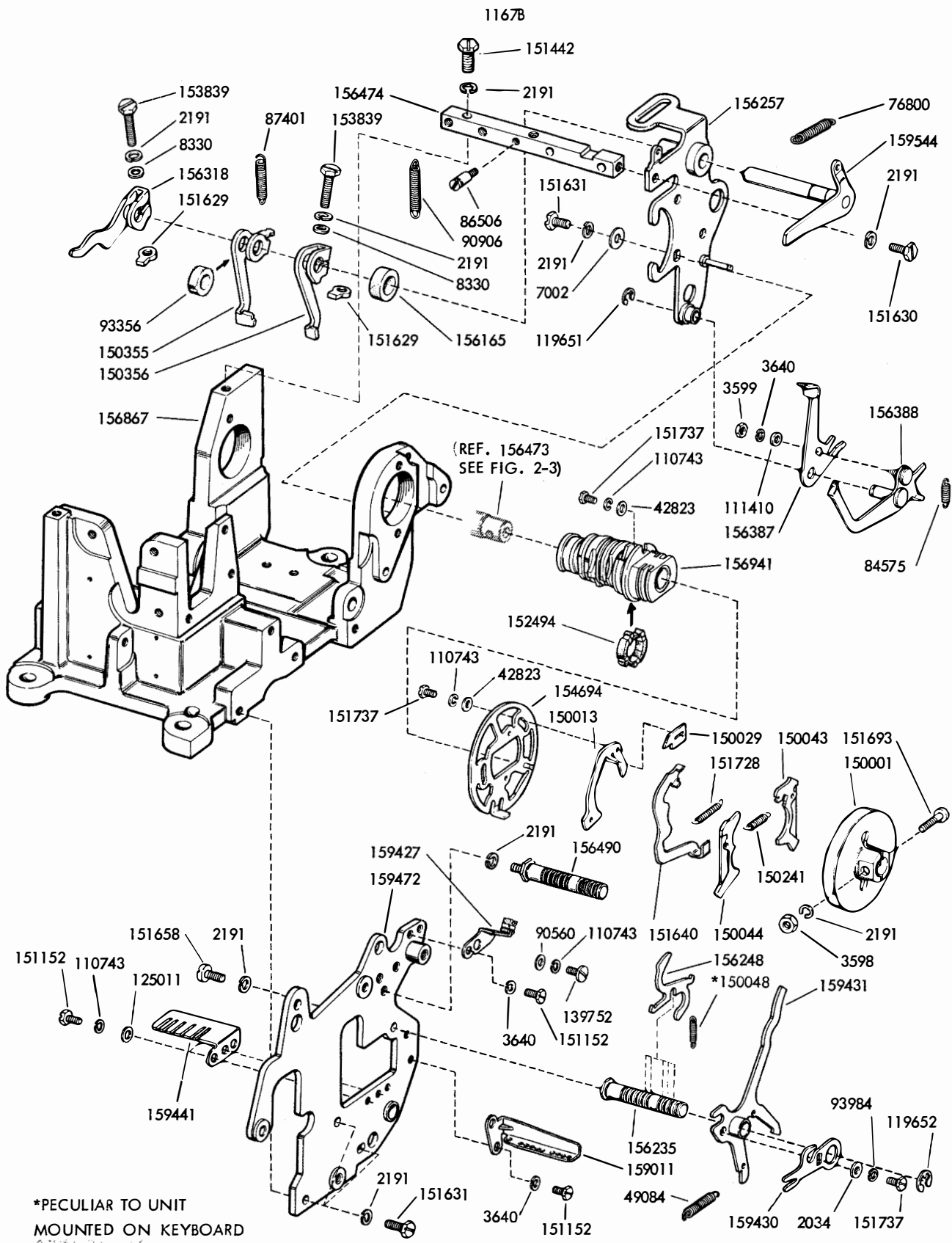


FIGURE 2-1. FRAME MECHANISM

NUMERICAL INDEX - FIGURE 2-1

Part Number	Description	Part Number	Description
2034	Washer, Flat	156474	Bar, Mounting
2191	Washer, Lock	156490	Post, Guide
3598	Nut (6-40 Hex)	156867	Frame, Main
3599	Nut (4-40 Hex)	156941	Cam, Selector (w/Lubricator)
3640	Washer, Lock	159011	Bracket, Spring
7002	Washer, Flat	159427	Bracket, Stop
8330	Washer, Flat	159430	Lever, Reset Bail Trip
42823	Washer, Flat	159431	Lever, Main Trip
49084	Spring	159441	Guide, Bell Crank
76800	Spring, Release	159472	Plate, Main
84575	Spring, Adjusting Arm	159544	Release, Clutch
86506	Post, Spring		
87401	Spring, Latch Lever		
90560	Washer, Flat		
90606	Spring, Lifter		
93356	Washer, Felt		
93984	Washer, Lock		
110743	Washer, Lock		
111410	Washer, Flat		
119651	Ring, Retaining		
119652	Ring, Retaining		
125011	Washer, Flat		
139752	Screw (4-40 x 11/64 Fil)		
150001	Drum, Clutch		
150013	Disk, Clutch Adjusting		
150029	Wick, Felt		
150043	Shoe, Secondary		
150044	Shoe, Primary		
150048	Spring, Latch		
150241	Spring, Shoe		
150355	Lever, Clutch Latch		
150356	Lever, Clutch Trip		
151103	Spring, Latch		
151152	Screw (4-40 x 3/16 Hex)		
151442	Screw (6-40 x 1/2 Hex)		
151629	Nut (6-40 Special)		
151630	Screw (6-40 x 1/4 Hex)		
151631	Screw (6-40 x 5/16 Hex)		
151640	Lever, Clutch Shoe		
151658	Screw (6-40 x 5/16 Fil)		
151693	Screw (6-40 x 9/16 Fil)		
151728	Spring, Shoe Lever		
151737	Screw (4-40 x 11/64 Hex)		
152494	Wick, Oiler		
153839	Screw (6-40 x 5/8 Hex)		
154694	Disk, Clutch Cam		
156165	Washer, Felt		
156235	Post, Latch Guide		
156248	Latch, Punch Slide		
156257	Bracket, Trip		
156318	Lever, Reset		
156387	Lever, Follower		
156388	Arm, Adjusting		

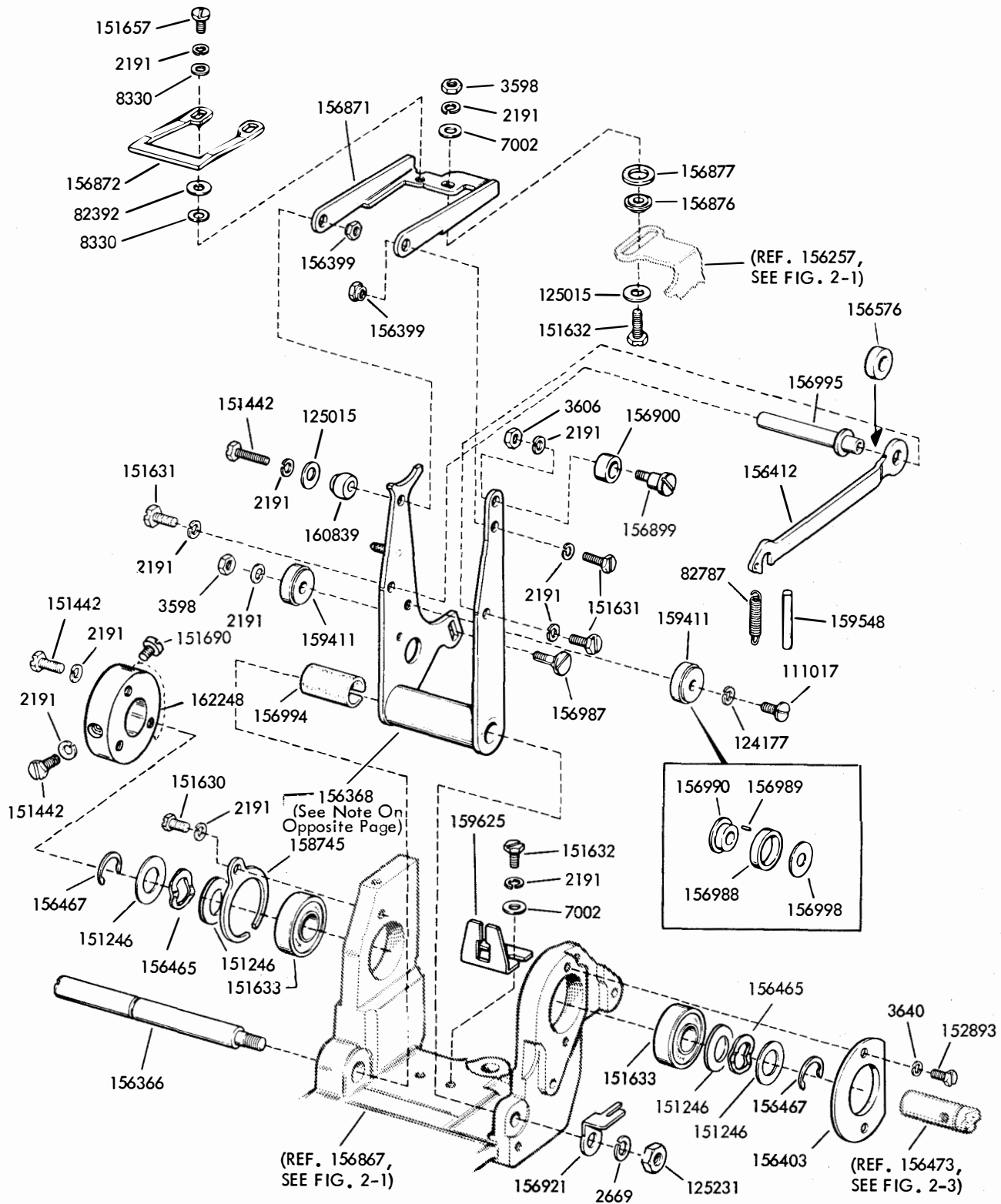


FIGURE 2-2. FRAME MECHANISM

NUMERICAL INDEX - FIGURE 2-2

Part Number	Description
2191	Washer, Lock
2669	Washer, Lock
3598	Nut (6-40 Hex)
3606	Nut (6-40 Hex)
3640	Washer, Lock
7002	Washer, Flat
8330	Washer, Flat
82392	Shim (.004)
82787	Spring, Rocker Arm
111017	Screw (6-40 x 5/16 Fil)
124177	Washer, Lock
125015	Washer, Flat
125231	Nut (10-32 Hex)
151246	Washer, Flat
151442	Screw (6-40 x 1/2 Hex)
151630	Screw (6-40 x 1/4 Hex)
151631	Screw (6-40 x 5/16 Hex)
151632	Screw (6-40 x 3/8 Hex)
151633	Bearing, Ball
151657	Screw (6-40 x 1/4 Fil)
151690	Screw (10-32 x 5/16)
152893	Screw (6-40 x 1/4 Hex)
156366	Shaft, Rocker Bail
156368	Bail, Rocker (w/Sleeve)
156399	Nut (6-40 Hex)
156403	Disk, Main Shaft Bearing
156412	Link, Perforator Drive
156465	Washer, Spring
156467	Ring, Retaining
156576	Washer, Felt
156871	Bail, Operating Blade Mounting
156872	Blade, Operating
156876	Bushing, Pilot Stud
156877	Washer, Felt
156899	Stud, Ribbon Feed Eccentric
156900	Roller, Ribbon Feed Drive
156921	Guide, Adjusting Lever
156987	Screw, Shoulder (6-40)
156988	Race, Roller Bearing (Outer)
156989	Roller, Bearing
156990	Race, Roller Bearing (Inner)
156994	Strip, Felt
156995	Post, Spacer
156998	Retainer, Bearing Roller
158745	Clamp, Bearing
159411	Bearing Assembly
159548	Wick, Felt
159625	Bracket, Rocker Bail Guide
160839	Shoulder, Bushing
162248	Hub

NOTE: → SEE FIG. 2-17
 156368 rocker bail has been redesigned. On early design, the 159506 post was used with the bail. On later design bail, a post is welded right to the bail. Still later design is 162350, which has a post welded in, in place of the 159506 post. See 1167B, NOV 1961, Fig 2-2.

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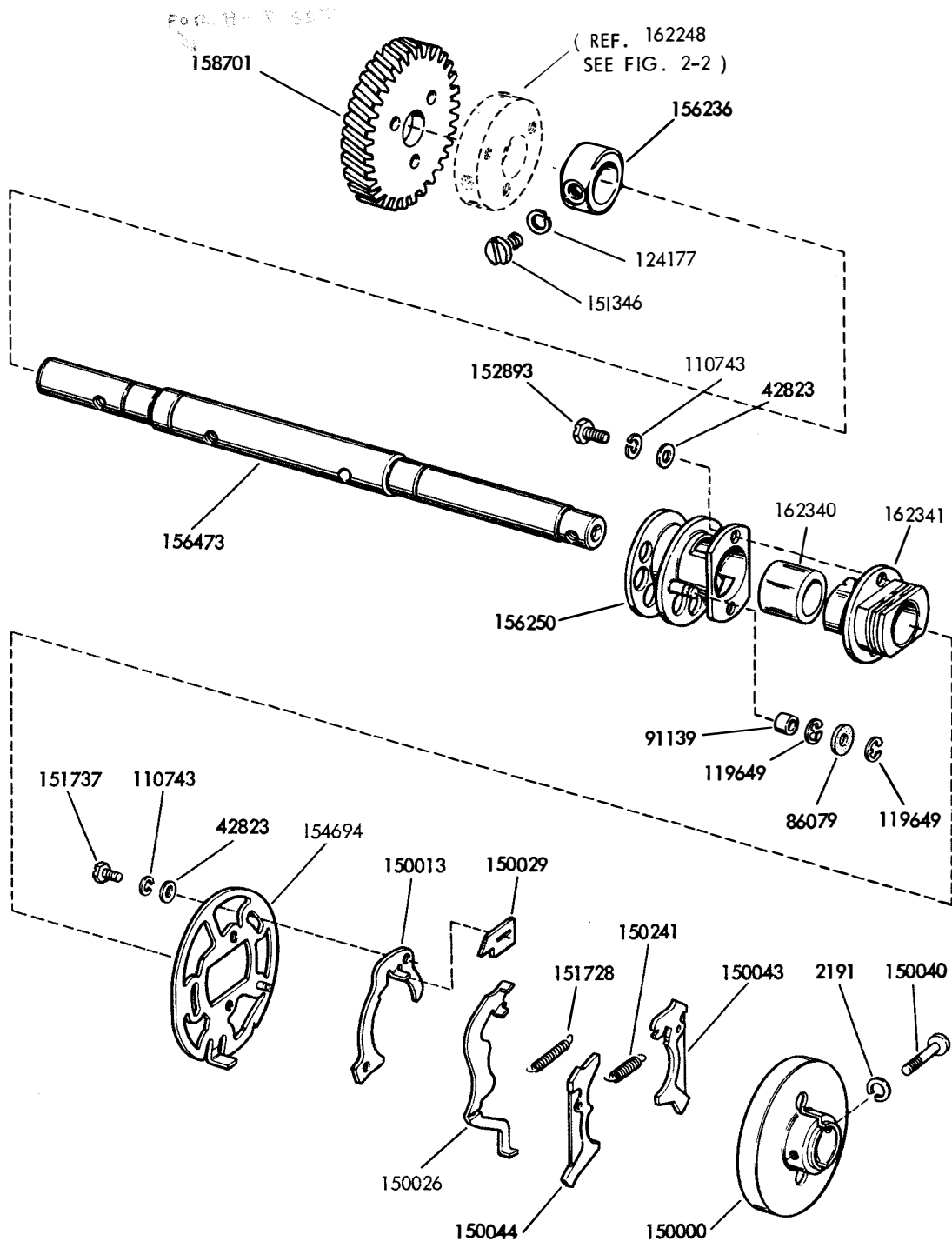
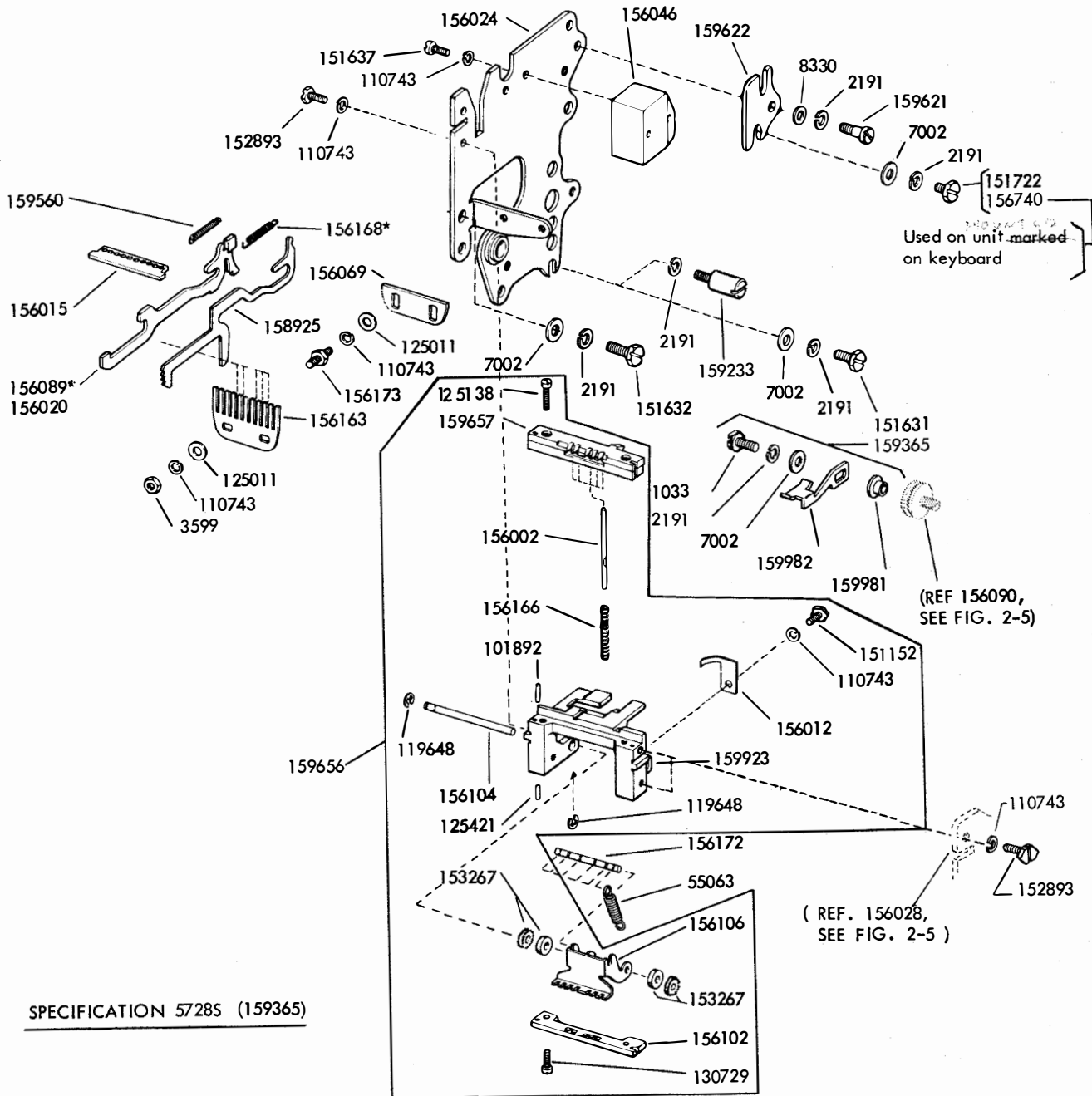


FIGURE 2-3. MAIN SHAFT MECHANISM

NUMERICAL INDEX - FIGURE 2-3

Part Number	Description
2191	Washer, Lock
42823	Washer, Flat
86079	Washer, Felt
91139	Roller, Function Cam
110743	Washer, Lock
119649	Ring, Retaining
124177	Washer, Lock
150000	Drum, Clutch
150013	Disk, Adjusting
150026	Lever, Shoe
150029	Wick, Felt
150040	Screw (6-40 x 5/8 Fil)
150043	Shoe, Secondary
150044	Shoe, Primary
150241	Spring, Clutch Shoe
151346	Screw (6-40 x 3/8 Fil)
151728	Spring, Clutch Shoe Lever
151737	Screw (4-40 x 11/64 Hex)
152893	Screw (4-40 x 1/4 Hex)
154694	Disk, Clutch Cam
156236	Collar
156250	Cam, Function
156473	Shaft, Main
158701	Gear, Driven Helical (35T)
162340	Bearing, Sleeve
162341	Bearing

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SPECIFICATION 5728S (159365)

FIGURE 2-4. PERFORATOR MECHANISM

NUMERICAL INDEX - FIGURE 2-4

Part Number	Description
1033	Screw (6-40 x 5/16 Hex)
2191	Washer, Lock
3599	Nut (4-40 Hex)
7002	Washer, Flat
8330	Washer, Flat
55063	Spring, Retractor Bail (Tension)
101892	Dowel, Upper
110743	Washer, Lock
119648	Ring, Retaining
125011	Washer, Flat
125138	Screw (4-40 x 11/64 Hex)
125421	Dowel, Lower
130729	Screw (2-56 x .180 Fil)
151152	Screw (4-40 x 3/16 Hex)
151631	Screw (6-40 x 5/16 Hex)
151632	Screw (6-40 x 3/8 Hex)
151637	Screw (4-40 x 1/4 Fil)
151722	Screw (6-40 x 3/16 Hex)
152893	Screw (4-40 x 1/4 Hex)
153267	Washer, Felt
156002	Pin, Punch
156012	Spring, Tape Biasing
156015	Plate, Spring
156020	Slide, Punch
156024	Plate, Perforator Rear (w/Bushings)
156046	Block, Tape Guide
156069	Plate, Punch Slide Downstop
156089	Slide, Punch (w/Insulator)
156102	Plate, Bottom Guide
156104	Shaft, Retractor Bail
156106	Bail, Retractor
156163	Guide, Punch Slide
156166	Spring, Punch Pin
156168	Spring, Depressor Slide
156172	Rod, Retractor Bail
156173	Stud, Guide Mounting
156740	Screw (6-40 x 7/32 Hex)
158925	Slide, Tape Depressor
159233	Stud
159365	Modification Kit to Add Tape Guide
159560	Spring, Punch Slide
159621	Screw, Shoulder (6-40)
159622	Clamp, Perforator Adjusting
159656	Block Assembly, Punch
159657	Plates, Guide and Die
159923	Holder, Punch Pin
159981	Spacer, Tape Guide
159982	Guide, Tape

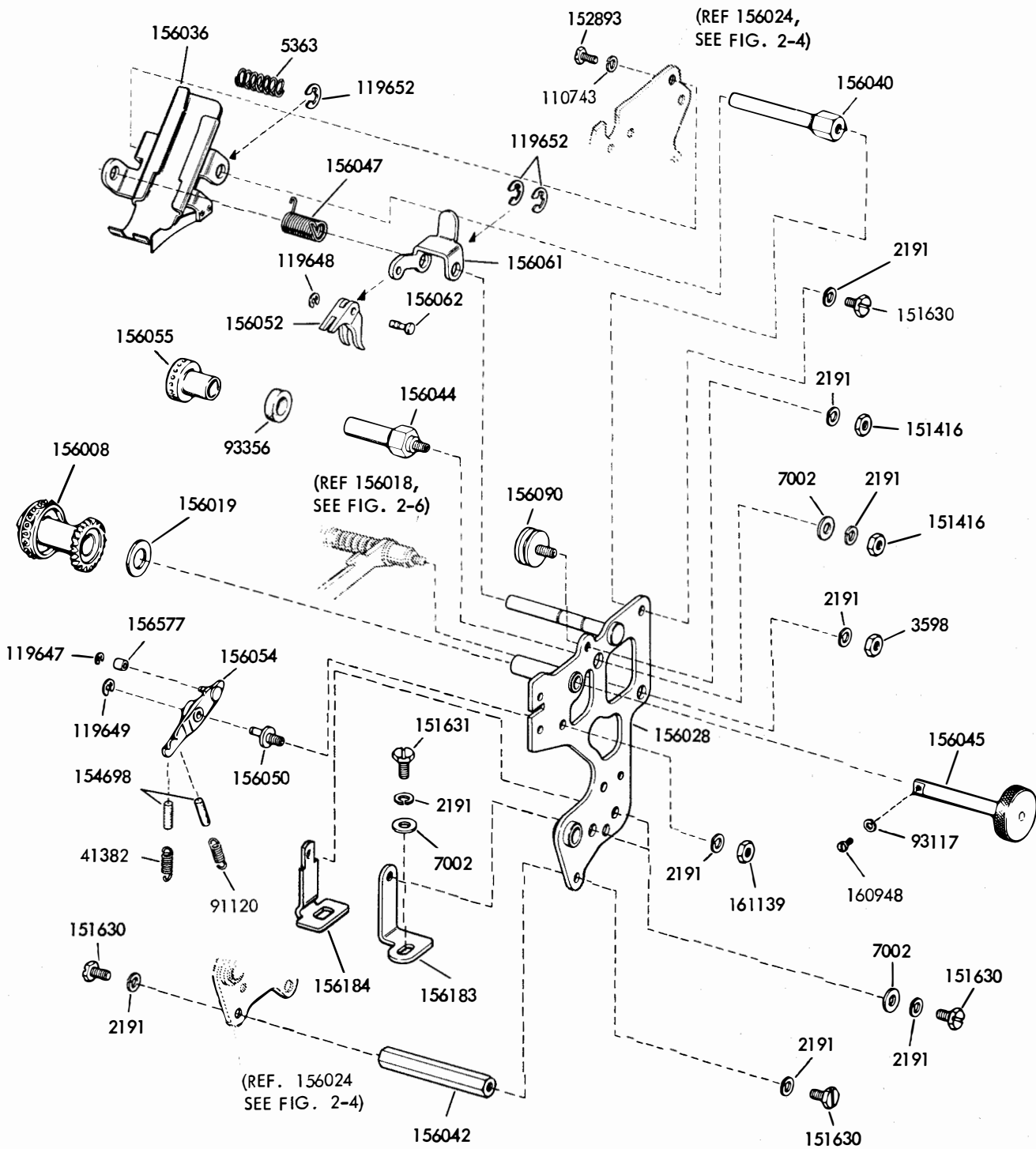


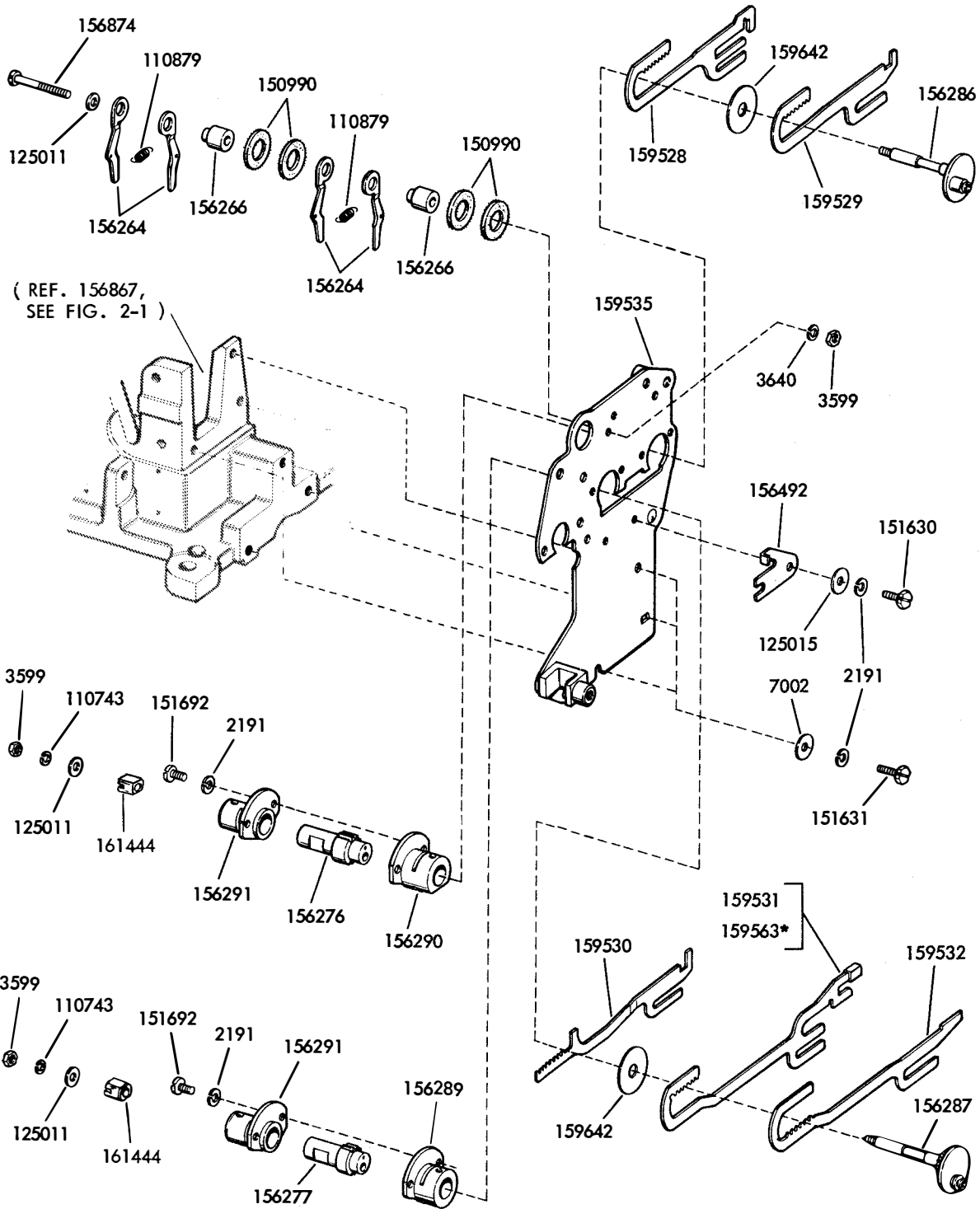
FIGURE 2-5. PERFORATOR MECHANISM

NUMERICAL INDEX - FIGURE 2-5

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex)
5363	Spring, Tape Guide Assembly
7002	Washer, Flat
41382	Spring, Detent
91120	Spring, Feed Pawl
93117	Washer, Lock
93356	Washer, Felt
110743	Washer, Lock
119647	Ring, Retaining
119648	Ring, Retaining
119649	Ring, Retaining
119652	Ring, Retaining
151416	Nut (6-40 Hex)
151630	Screw (6-40 x 1/4 Hex)
151631	Screw (6-40 x 5/16 Hex)
152893	Screw (4-40 x 1/4 Hex)
154698	Wick, Felt
156008	Wheel, Feed
156019	Washer, Felt
156028	Plate, Perforator Front (w/Bushing and Studs)
156036	Guide Assembly, Tape
156040	Post, Tape Guide
156042	Post, Spacing
156044	Stud, Die Wheel Eccentric
156045	Shaft, Feed Wheel (w/Knob)
156047	Spring, Tape Shoe Torsion
156050	Stud, Detent Lever Eccentric
156052	Shoe, Tape
156054	Lever, Detent (w/Hub)
156055	Wheel, Die
156061	Arm, Tape Shoe
156062	Pivot, Shoe
156090	Screw, Adjusting
156183	Bracket, Perforator Anchor
156184	Bracket, Perforator Mounting
156577	Roller, Detent Lever
160948	Screw (2-56 x 5/32 Sp.)
161139	Nut (6-40)

NUMERICAL INDEX - FIGURE 2-6

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex)
7002	Washer, Flat
8330	Washer, Flat
71437	Washer, Flat
90361	Washer, Felt
110743	Washer, Lock
119650	Ring, Retaining
119652	Ring, Retaining
125015	Washer, Flat
128357	Ring, Retaining
150923	Washer, Felt
151073	Screw (4-40 x 5/32 Fil)
151222	Washer, Felt
151416	Nut (6-40 Hex)
151629	Nut, Lug (6-40)
151737	Screw (4-40 x 11/32 Hex)
152634	Washer, Flat
152893	Screw (4-40 x 1/4 Hex)
153839	Screw (6-40 x 5/8 Hex)
156009	Post, Slide
156013	Screw, Lock (6-40)
156014	Pawl, Feed
156016	Link, Front Drag
156017	Shaft, Toggle Bail Eccentric
156018	Post, Slide Guide
156043	Bushing
156051	Bushing, Feed Pawl Eccentric
156058	Link, Rear Toggle (w/Bushing)
156059	Bail, Reset (w/Bushing)
156060	Shaft, Reset Bail Eccentric
156067	Guide, Slide Post
156070	Bail Assembly, Toggle
156077	Plate (w/Post)
156093	Washer, Felt
156094	Link, Front Toggle (w/Bushing)
156095	Bushing
156099	Link, Rear Drag
156103	Strip, Felt
156108	Bracket, Spring
156162	Washer, Flat
156165	Washer, Felt
156169	Washer, Felt
156884	Arm, Rocker (w/Pivot)
160480	Pusher, Tape



*USED ON UNITS WITH LETTERS-FIGURES CONTACT

FIGURE 2-7. ROTARY POSITIONING MECHANISM

NUMERICAL INDEX - FIGURE 2-7

Part Number	Description
2191	Washer, Lock
3599	Nut (4-40 Hex.)
3640	Washer, Lock
7002	Washer, Flat
110743	Washer, Lock
110879	Spring, Detent Lever
125011	Washer, Flat
125015	Washer, Flat
150990	Washer, Felt
151630	Screw (6-40 x 1/4 Hex.)
151631	Screw (6-40 x 5/16 Hex.)
151692	Screw (6-40 x 3/16 Fil.)
156264	Lever, Rotary Detent
156266	Bushing, Rotary Shoulder
156276	Shaft, Rotary Primary Eccentric (Right)
156277	Shaft, Rotary Primary Eccentric (Left)
156286	Shaft, Rotary Secondary Eccentric (Right)
156287	Shaft, Rotary Secondary Eccentric (Left)
156289	Bearing, Rotary Eccentric (Left Front)
156290	Bearing, Rotary Eccentric (Right Front)
156291	Bearing, Rotary Eccentric (Rear)
156492	Bracket, No. 4 Push Bar Guide
156874	Screw (4-40 x 15/16 Fil.)
159528	Bar, No. 5 Push
159529	Bar, No. 3 Push
159530	Bar, No. 4 Push
159531	Bar, Letters Push
159532	Bar, Figures Push
159535	Plate, Typing Mechanism Front (w/Bushing & Stud)
159563	Bar, Letters Push (w/Insulator)
159642	Shim
161444	Detent, Rotary Shaft

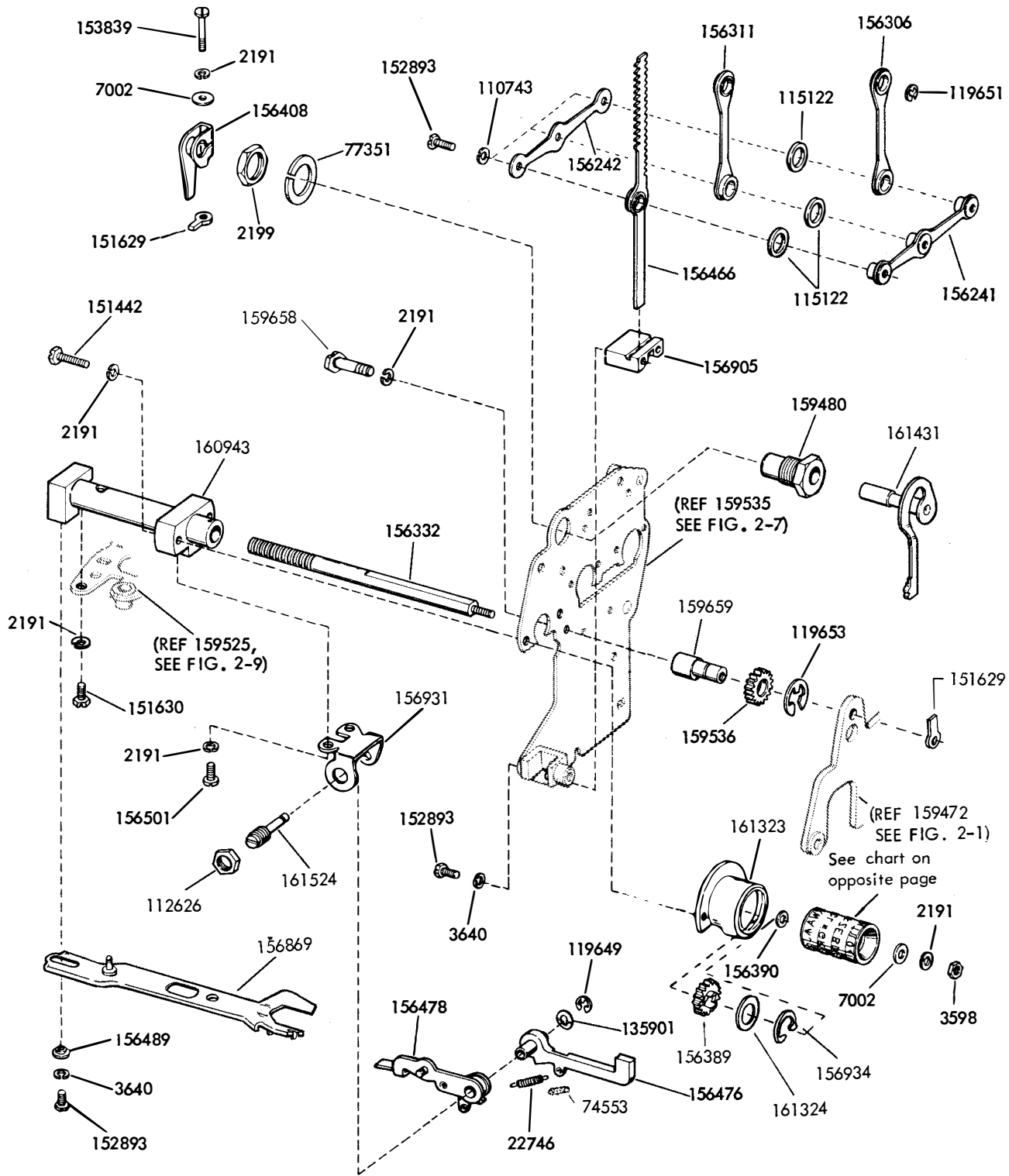


FIGURE 2-8. ROTARY POSITIONING MECHANISM

NUMERICAL INDEX - FIGURE 2-8

Part Number	Description
2191	Washer, Lock
2199	Nut (7/16-32 Hex)
3598	Nut (6-40 Hex)
3640	Washer, Lock
7002	Washer, Flat
22746	Spring, Hammer
74553	Wick, Oil
77351	Washer, Lock
110743	Washer, Lock
115122	Washer, Felt
119649	Ring, Retaining
119651	Ring, Retaining
119653	Ring, Retaining
112626	Nut (10-32 Hex)
135901	Washer, Cup
151442	Screw (6-40 x 1/2 Hex)
151629	Nut (6-40 Special)
151630	Screw (6-40 x 1/4 Hex)
152893	Screw (4-40 x 1/4 Hex)
153839	Screw (6-40 x 5/8 Hex)
156241	Link, Front Cross (W/Weld Nut)
156242	Link, Rear Cross
156306	Rod, Output Connecting (Right)
156311	Rod, Output Connecting (Left)
156332	Shaft, Typewheel
156389	Gear, Typewheel Shaft Spur (16 teeth)
156390	Washer, Flat
156408	Arm, Correcting Clamp
156466	Rack, Typewheel (W/Bushing)
156476	Hammer, Print (W/Bushing)
156478	Accelerator, Hammer
156489	Bushing, Ribbon Guide
156501	Screw (6-40 x 7/32 Fil)
156869	Guide, Ribbon
156905	Block, Typewheel Rack Guide
156931	Bracket, Hammer Mounting
156934	Ring, Retaining
159480	Bushing, Correcting Lever
156536	Gear, Idler (15 teeth)
159658	Screw (6-40 x 1-3/32 Hex)
159659	Shaft, Idler Gear Eccentric
160943	Housing, Typewheel Shaft
161323	Housing, Spur Gear
161324	Washer, Flat
161431	Lever, Rotary Correcting
161524	Shaft, Hammer

TYPEWHEEL CHART		
Typewheel Code	Matches Type Box Arrangement	Part Number
ARA	RA	156354
ARC	YC	156361
ARD	RD	156357
ARE	RE	156360
ARG	RG	156355
ARJ	RJ	156358
ARS	RS	156359
AWA	WA	156356

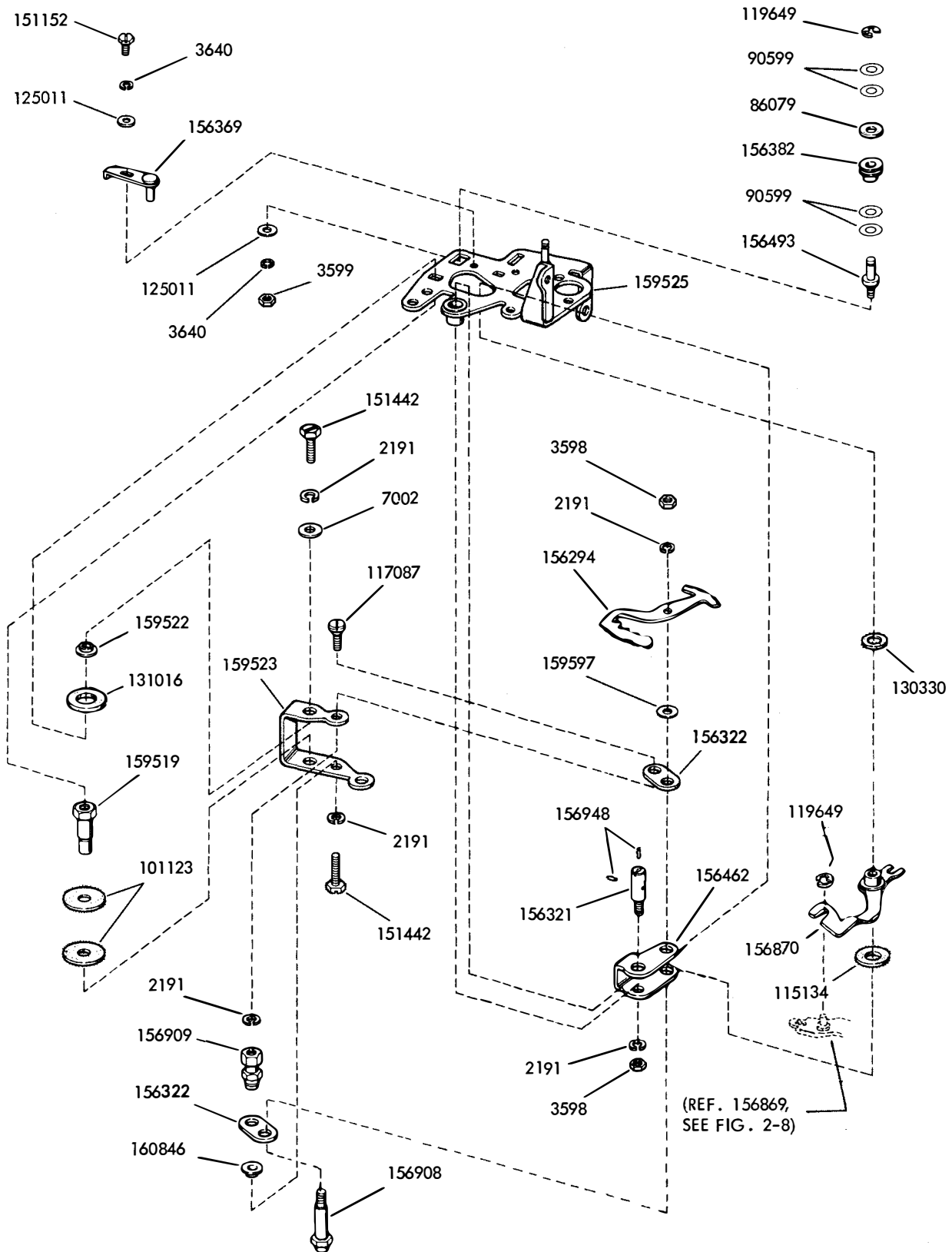


FIGURE 2-9. AXIAL POSITIONING MECHANISM

NUMERICAL INDEX - FIGURE 2-9

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex.)
3599	Nut (4-40 Hex.)
3640	Washer, Lock
7002	Washer, Flat
86079	Washer, Felt
90599	Shim
101123	Washer, Felt
115134	Washer, Felt
117087	Screw, Shoulder (6-40)
119649	Ring, Retaining
125011	Washer, Flat
130330	Washer, Felt
131016	Washer, Felt
151152	Screw (4-40 x 3/16 Hex.)
151442	Screw (6-40 x 1/2 Hex.)
156294	Sector, Axial
156321	Shaft, Oscillating Bail
156322	Link, Axial Toggle
156369	Lever, Ribbon Oscillating Adjusting
156382	Roller, Axial Rack Guide
156462	Bail, Oscillating
156493	Stud, Axial Guide Roller
156870	Lever, Ribbon Oscillating
156908	Post, Sector Pivot
156909	Post, Axial Toggle Link
156948	Wick, Felt
159519	Bushing, Drive Bail
159522	Bushing, Drive Bail
159523	Bail, Oscillating Drive
159525	Bracket, Axial Mounting (w/Bushing)
159597	Washer, Flat
160846	Bushing, Spacer

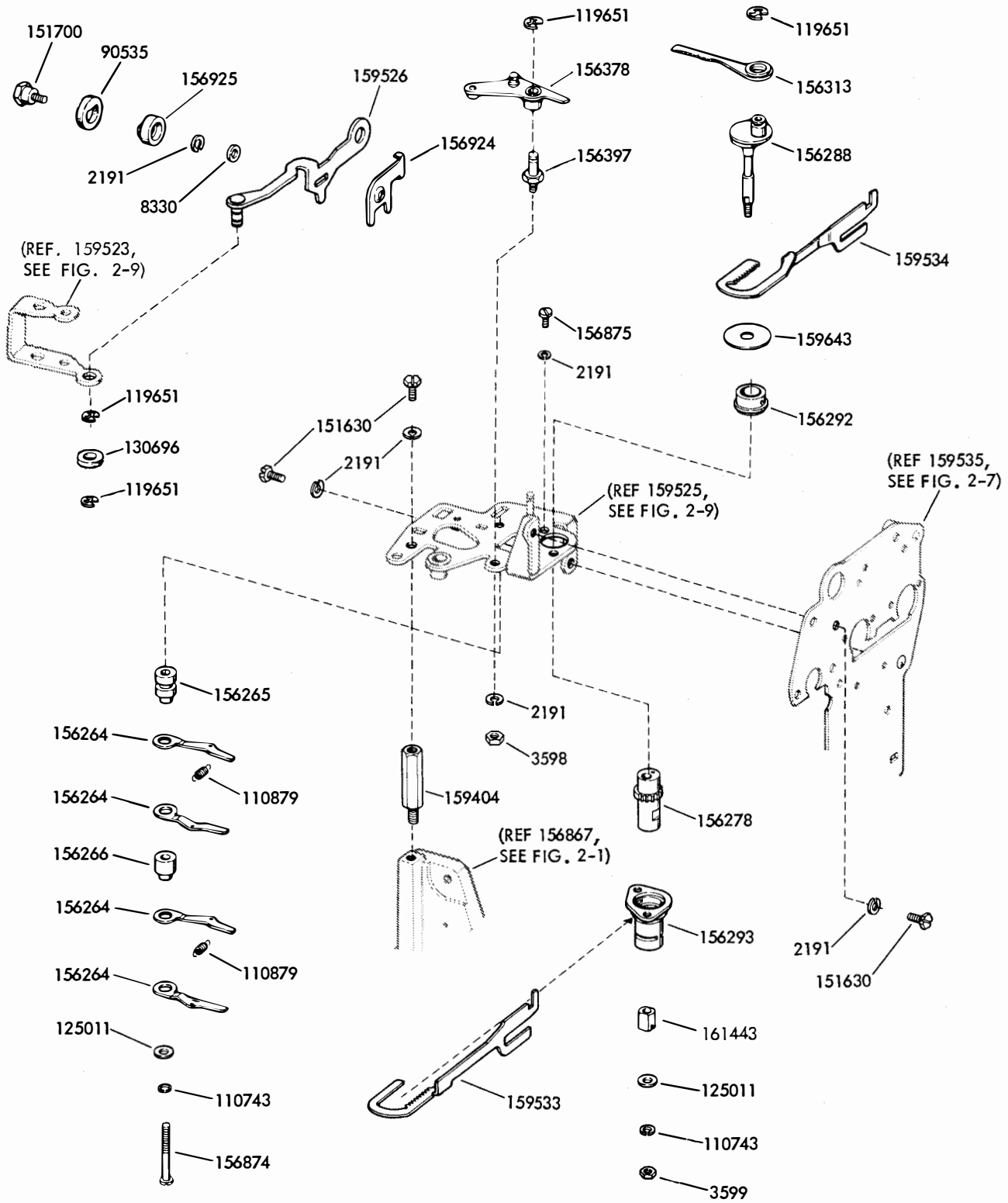


FIGURE 2-10. AXIAL POSITIONING MECHANISM

NUMERICAL INDEX - FIGURE 2-10

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex.)
3599	Nut (4-40 Hex.)
8330	Washer, Flat
90535	Disk, Oscillating Drive Link
110743	Washer, Lock
110879	Spring, Detent Lever
119651	Ring, Retaining
125011	Washer, Flat
130696	Washer, Felt
151630	Screw (6-40 x 1/4 Hex.)
151700	Screw, Shoulder (6-40)
156264	Lever, Detent
156265	Bushing, Axial Detent Shoulder
156266	Bushing, Axial Detent Shoulder (Lower)
156278	Shaft, Axial Primary Eccentric
156288	Shaft, Axial Secondary Eccentric
156292	Housing, Upper Axial
156293	Housing, Lower Axial
156313	Rack, Axial Output
156378	Plate, Axial Correcting (w/Hub)
156397	Post, Correcting Plate Pivot
156874	Screw (4-40 x 15/16 Fil.)
156875	Screw (6-40 x 5/32 Fil.)
156924	Plate, Oscillating Drive Link
156925	Roller, Oscillating Drive Link
159404	Post, Axial Bracket Mounting
159526	Link, Oscillating Drive
159533	Bar, No. 1 Push
159534	Bar, No. 2 Push
159643	Shim
161443	Detent, Axial Shaft

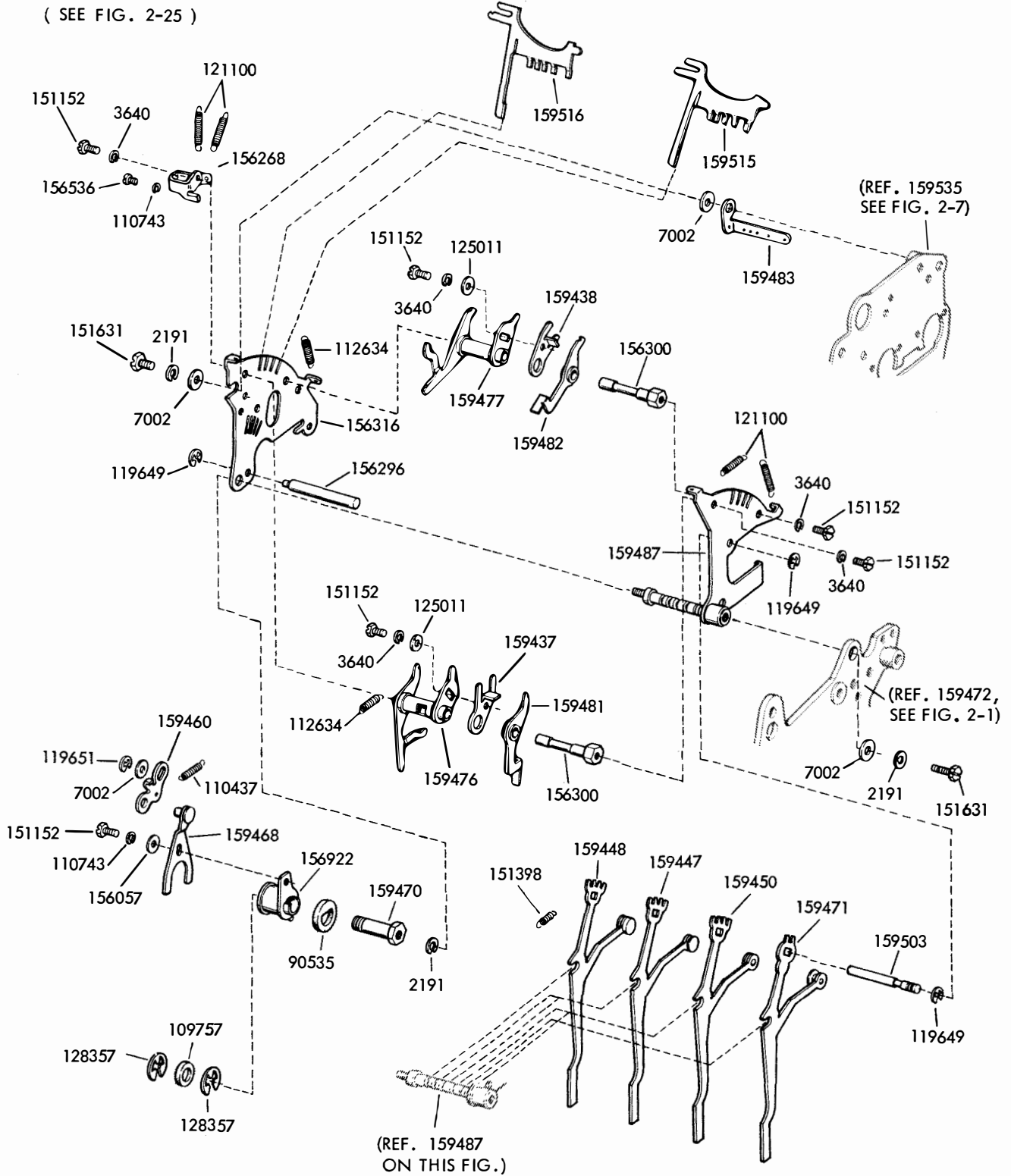


FIGURE 2-11. FUNCTION BOX MECHANISM

NUMERICAL INDEX - FIGURE 2-11

Part Number	Description
2191	Washer, Lock
3640	Washer, Lock
7002	Washer, Flat
90535	Disk
109757	Washer, Felt
110437	Spring, Toggle Link
110743	Washer, Lock
112634	Spring, Arm Assembly
119649	Ring, Retaining
119651	Ring, Retaining
121100	Spring, Arm Extension and Function Blade
125011	Washer, Flat
128357	Ring, Retaining
151152	Screw (4-40 x 3/16 Hex.)
151398	Spring, Bell Crank
151631	Screw (6-40 x 5/16 Hex.)
156057	Washer, Flat
156268	Bracket, Spring
156296	Post, Function Box Spacer
156300	Shaft, Arm Assembly
156316	Plate, Function Box Rear
156536	Screw (4-40 x 1/8 Fil)
156922	Arm, Lock Release
159437	Arm, Yield (Figures)
159438	Arm, Yield (Letters)
159447	Crank, Bell (No. 1 & 4)
159448	Crank, Bell (No. 2)
159450	Crank, Bell (No. 3 & 5)
159460	Link, Toggle
159468	Arm, Lock (w/Stud)
159470	Shaft, Lock Arm
159471	Crank, Bell (Letters - Figures)
159476	Arm Assembly (Figures)
159477	Arm Assembly (Letters)
159481	Arm, Extension - Figures (w/Hub)
159482	Arm, Extension - Letters (w/Hub)
159483	Bracket, Spring
159487	Plate, Function Box Front (w/Shaft)
159503	Post, Bell Crank Stop
159515	Blade, Function (Figures)
159516	Blade, Function (Letters)

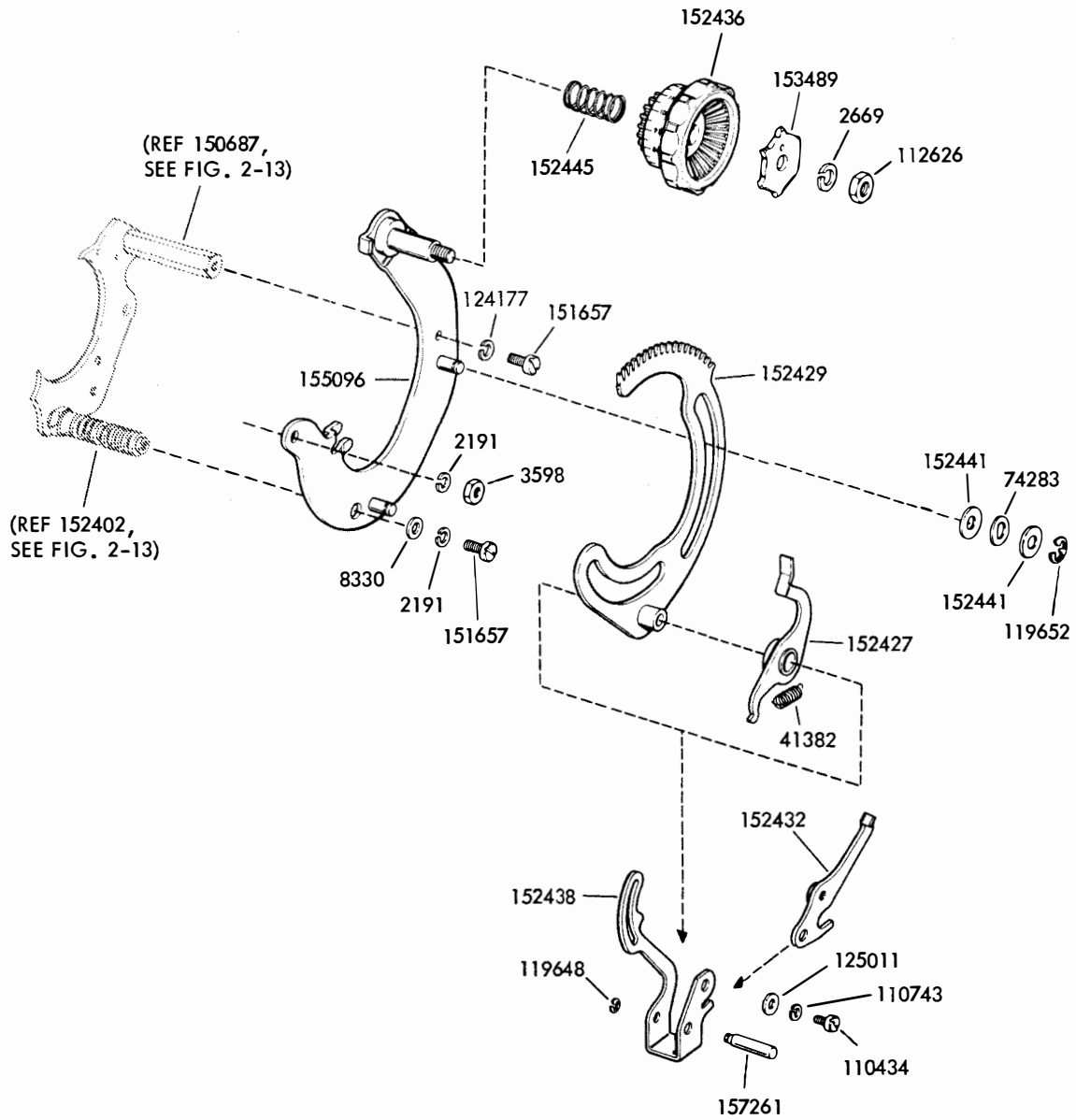


FIGURE 2-12. RANGE FINDER MECHANISM

NUMERICAL INDEX - FIGURE 2-12

Part Number	Description
2191	Washer, Lock
2669	Washer, Lock
3598	Nut (6-40 Hex.)
8330	Washer, Flat
41382	Spring, Latch Lever
74283	Washer, Spring
110434	Screw (4-40 x 3/16 Fil.)
110743	Washer, Lock
112626	Nut (10-32 Hex.)
119648	Ring, Retaining
119652	Ring, Retaining
124177	Washer, Lock
125011	Washer, Flat
151657	Screw (6-40 x 1/4 Fil.)
152427	Lever, Latch (w/Hub)
152429	Rack, Range Finder (w/Hub)
152432	Arm, Stop (w/Hub)
152436	Knob, Range Finder
152438	Bail, Stop Arm
152441	Washer, Flat
152445	Spring, Knob
153489	Detent, Range Finder
155096	Plate, Range Finder Mounting (w/Studs)
157261	Shaft, Stop Arm

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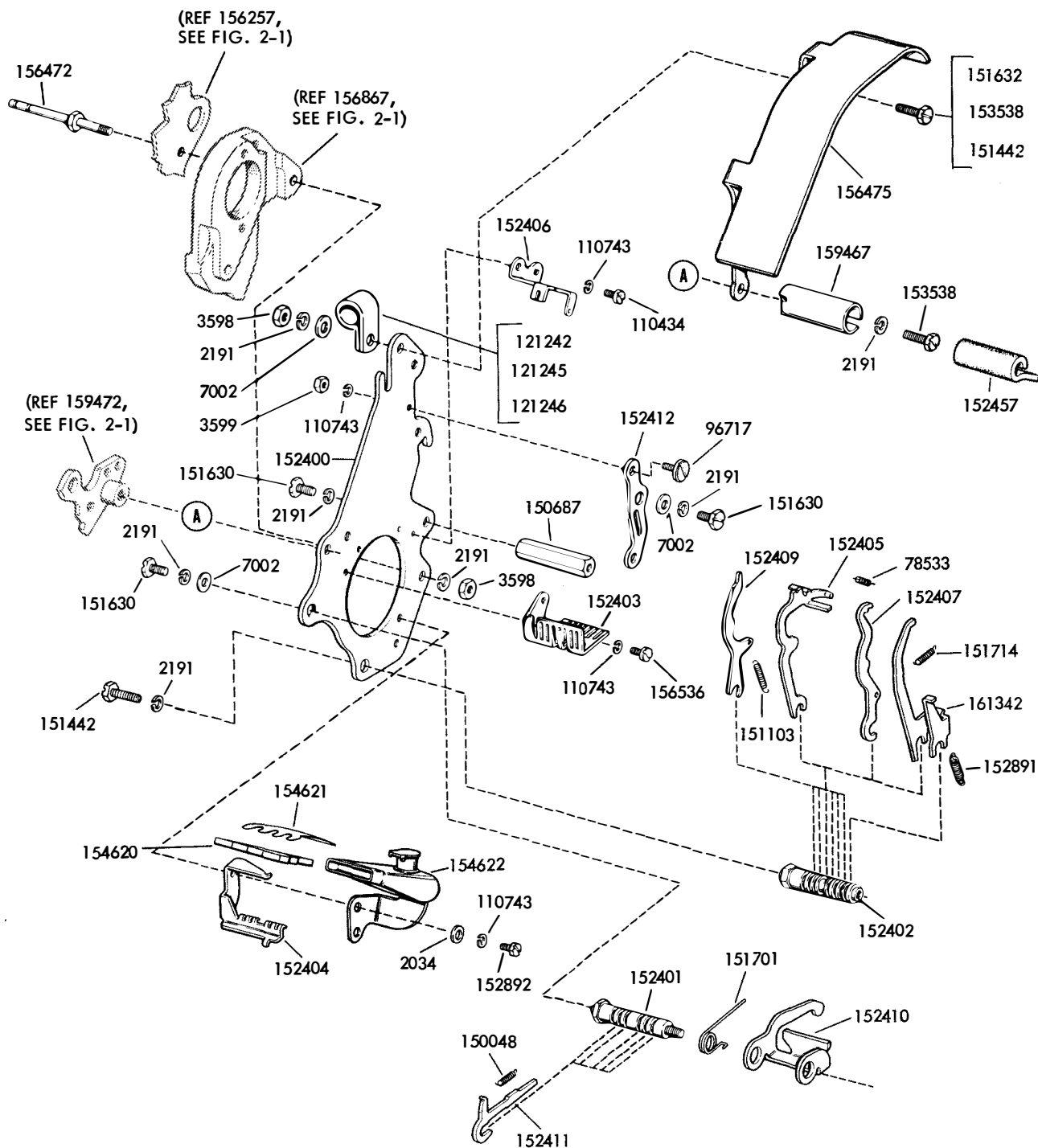


FIGURE 2-13. SELECTING MECHANISM

NUMERICAL INDEX - FIGURE 2-13

Part Number	Description
2034	Washer, Flat
2191	Washer, Lock
3598	Nut (6-40 Hex)
3599	Nut (4-40 Hex)
7002	Washer, Flat
78533	Spring, Marking Lock Lever
96717	Screw, Shoulder (4-40)
110434	Screw (4-40 x 3/16 Fil)
110743	Washer, Lock
121242	Clamp, Cable (1/8" I.D.)
121245	Clamp, Cable (5/16" I.D.)
121246	Clamp, Cable (3/8" I.D.)
150048	Spring, Push Lever
150687	Post, Sector Plate Mounting
151103	Spring, Selecting Lever
151442	Screw (6-40 x 1/2 Hex)
151630	Screw (6-40 x 1/4 Hex)
151632	Screw (6-40 x 3/8 Hex)
151701	Spring, Reset Bail
151714	Spring, Spacing Lock Lever
152400	Plate, Selector Mounting
152401	Guide, Push Lever
152402	Guide, Selector Lever
152403	Bracket, Selector Lever Guide
152404	Bracket, Selector Lever Spring
152405	Lever, Marking Lock
152406	Bracket, Spring
152407	Lever, Spacing Lock
152409	Lever, Selecting
152410	Bail, Reset
152411	Lever, Push
152412	Link, Magnet Adjusting
152457	Wick, Felt
152891	Spring, Start Lever
152892	Screw (4-40 x 3/16 Hex)
153538	Screw (6-40 x 7/16 Hex)
154620	Wick, Lubricator
154621	Retainer, Wick
154622	Lubricator Assembly, Selector
156472	Post, Spring
156475	Guard, Tape
156536	Screw (4-40 x 1/8 Fil)
159467	Holder, Wick
161342	Lever, Start

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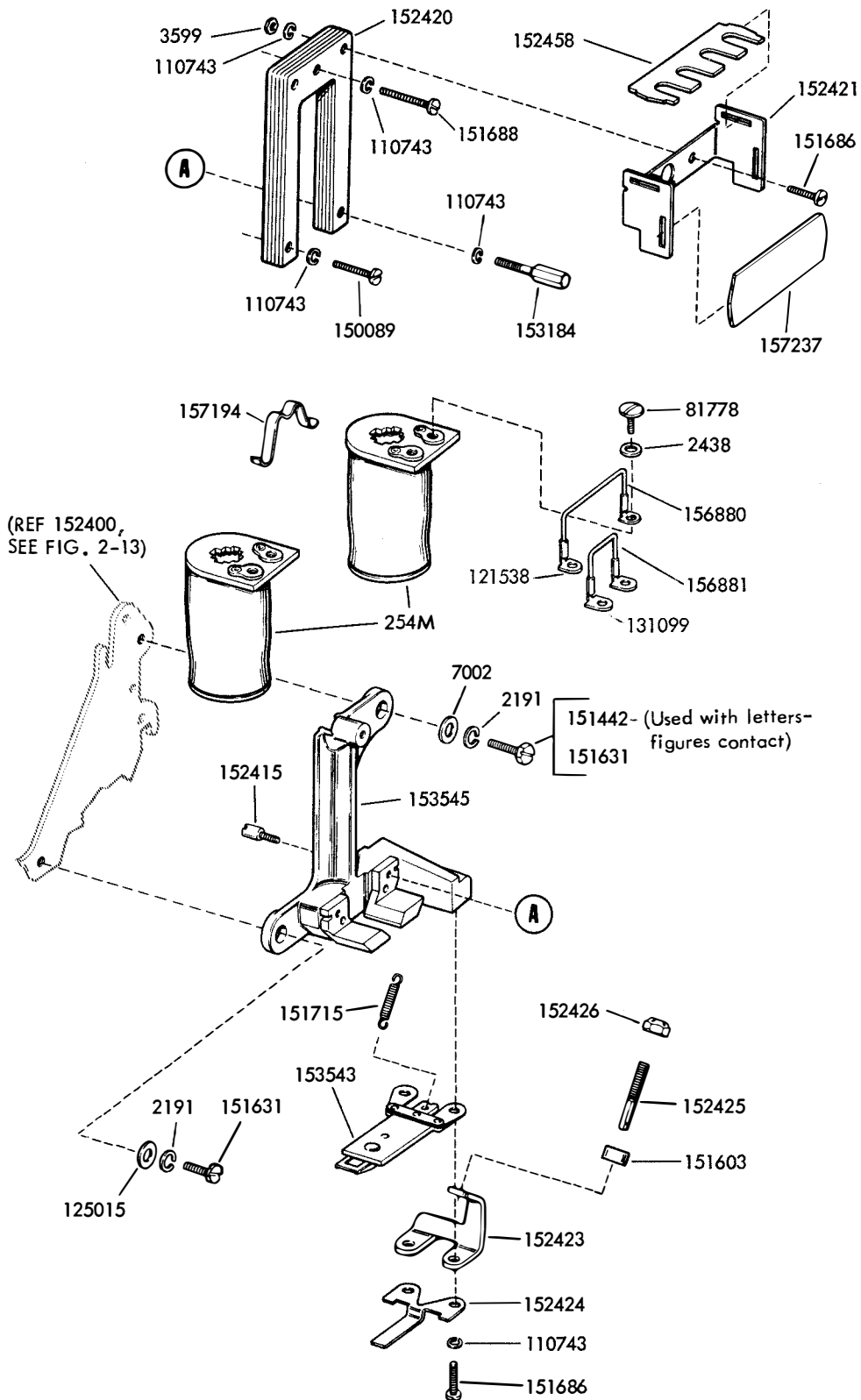


FIGURE 2-14. SELECTING MAGNET MECHANISM

NUMERICAL INDEX - FIGURE 2-14

Part Number	Description
254M	Coil, Selector Magnet
2191	Washer, Lock
2438	Washer, Flat
3599	Nut (4-40 Hex.)
7002	Washer, Flat
81778	Screw (4-40 x 1/4 Fil.)
110743	Washer, Lock
125015	Washer, Flat
150089	Screw (4-40 x 1/2 Fil.)
151442	Screw (6-40 x 1/2 Hex.)
151603	Spacer, Armature Spring
151631	Screw (6-40 x 5/16 Hex.)
151686	Screw (4-40 x 3/8 Fil.)
151688	Screw (4-40 x 5/8 Fil.)
151715	Spring, Armature
152415	Stud, Adjusting Link
152420	Lamination, Magnet
152421	Bracket, Shield Mounting
152423	Bracket, Armature Mounting
152424	Plate, Armature Stop
152425	Post, Spring
152426	Nut, Armature Spring Adjusting (6-40)
152458	Shield, Magnet Terminal (Top)
153184	Post
153543	Armature, Selector
153545	Bracket, Magnet Mounting
156880	Strap Assembly, Selector w/125138 Terminals
156881	Strap Assembly, Selector w/131099 Terminals
157194	Spring, Retainer
157237	Shield, Magnet Terminal

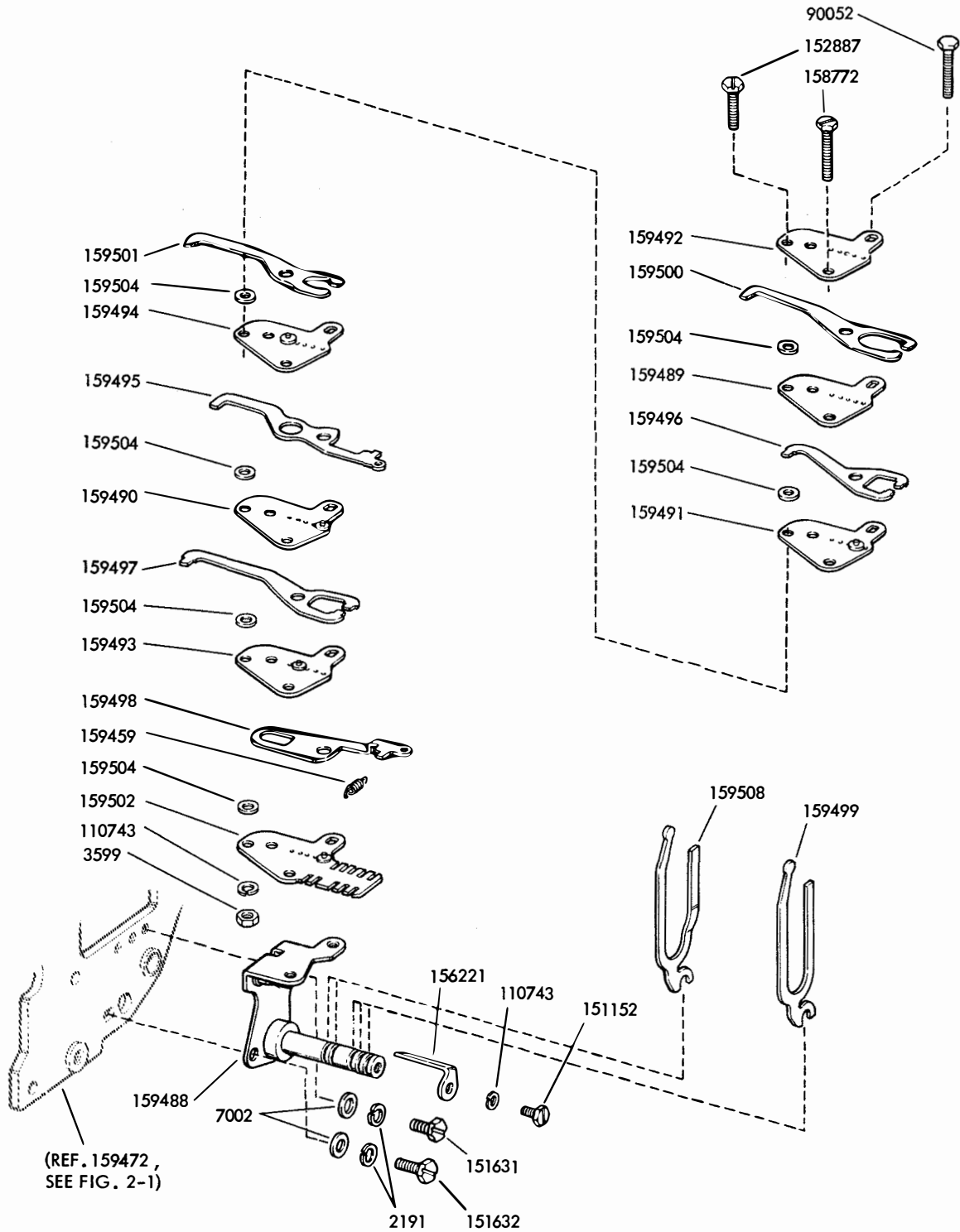


FIGURE 2-15. TRANSFER MECHANISM

NUMERICAL INDEX - FIGURE 2-15

Part Number	Description
2191	Washer, Lock
3599	Nut (4-40 Hex.)
7002	Washer, Flat
90052	Screw (4-40 x 5/8 Hex.)
110743	Washer, Lock
151152	Screw (4-40 x 3/16 Hex.)
151631	Screw (6-40 x 5/16 Hex.)
151632	Screw (6-40 x 3/8 Hex.)
152887	Screw (4-40 x 1/2 Hex.)
156221	Lock, Transfer Retainer
158772	Screw (4-40 x 5/8 Hex.)
159459	Spring, No. 5 Pulse Beam
159488	Bracket, Transfer Mounting (w/Stud)
159489	Separator, Transfer
159490	Plate Assembly, Transfer
159491	Plate Assembly, Transfer
159492	Plate Assembly, Transfer
159493	Plate Assembly, Transfer
159494	Plate Assembly, Transfer
159495	Beam, No. 5 Pulse
159496	Beam, No. 3 Pulse
159497	Beam, No. 2 Pulse
159498	Lever, No. 5 Pulse Beam
159499	Lever, Transfer (No. 3, 4 and 5)
159500	Beam, No. 4 Pulse
159501	Beam, No. 1 Pulse
159502	Guide, Transfer (w/Pivot)
159504	Spacer, Transfer
159508	Lever, Transfer (No. 1 and 2)

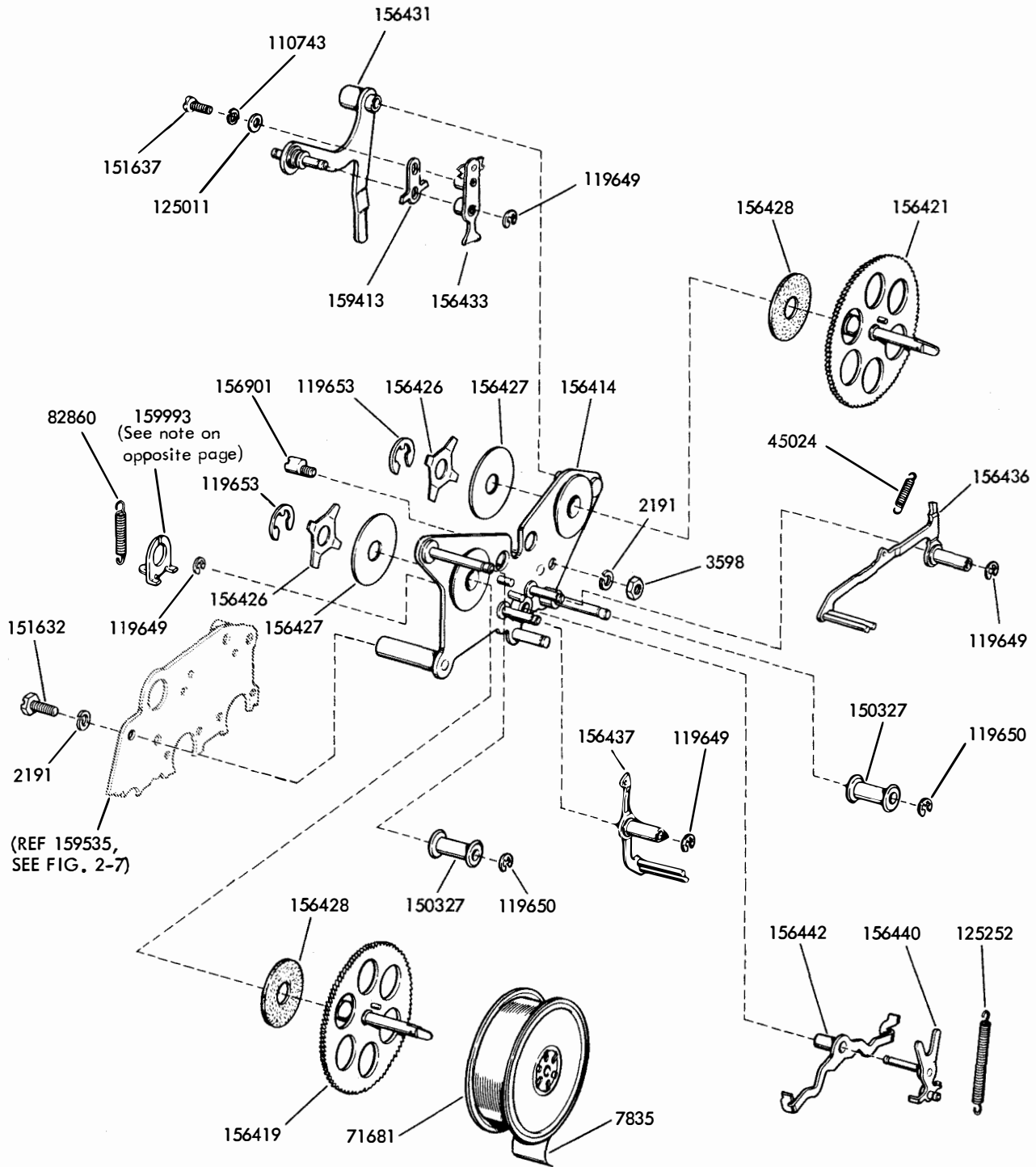


FIGURE 2-16. RIBBON FEED MECHANISM

NUMERICAL INDEX - FIGURE 2-16

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex)
7835	Ribbon, Black
45024	Spring, Reversing Arm
71681	Spool, Ribbon
82860	Spring, Drive Arm
110743	Washer, Lock
119649	Ring, Retaining
119650	Ring, Retaining
119653	Ring, Retaining
125011	Washer, Flat
125252	Spring, Feed Pawl
150327	Roller, Ribbon
151632	Screw (6-40 x 3/8 Hex)
151637	Screw (4-40 x 1/4 Fil)
156414	Plate, Ribbon Feed Mounting
156419	Shaft Assembly, Ribbon Ratchet (Left)
156421	Shaft Assembly, Ribbon Ratchet (Right)
156426	Washer, Ribbon Spring
156427	Disk, Ribbon Friction
156428	Washer, Felt
156431	Arm, Ribbon Drive (w/Bushing)
156433	Pawl, Ribbon Feed (w/Hub)
156436	Arm, Ribbon Reversing - Front (w/Hub)
156437	Arm, Ribbon Reversing - Rear (w/Hub)
156440	Lever, Ribbon Reversing (w/Shaft and Post)
156442	Pawl, Ribbon Retaining (w/Hub)
156901	Post, Drive Arm Eccentric
159413	Plate, Ribbon Reversing
159993	Bracket, Spring

NOTE:

On later design 156414 plate, the 159993 spring bracket is not used.

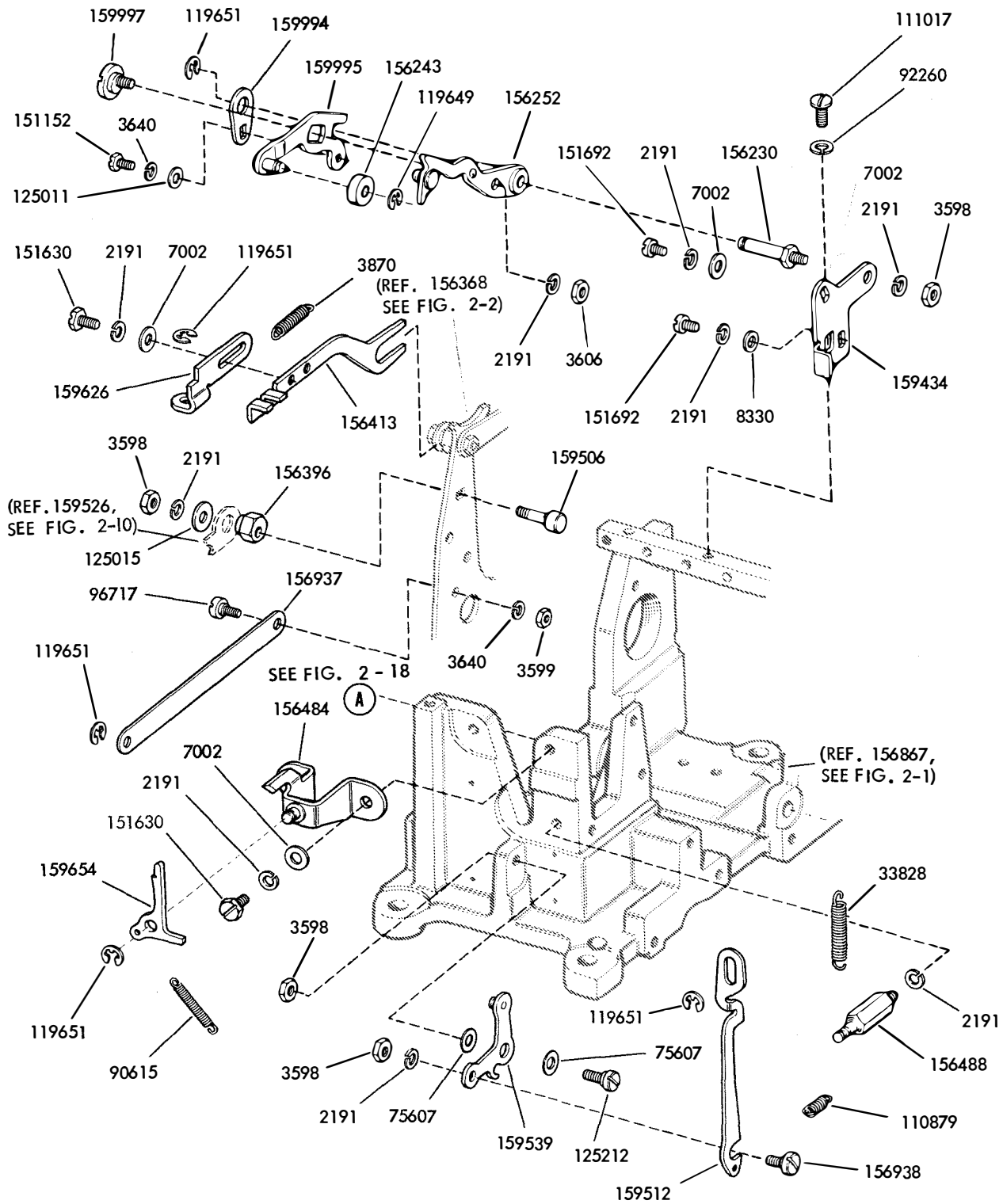


FIGURE 2-17. TYPING MECHANISM

NUMERICAL INDEX - FIGURE 2-17

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex.)
3599	Nut (4-40 Hex.)
3606	Nut (6-40 Hex.)
3640	Washer, Lock
3870	Spring, Correcting Drive Link
7002	Washer, Flat
8330	Washer, Flat
33828	Spring, Accelerator
75607	Shim
90615	Spring, Printing Latch
92260	Washer, Lock
96717	Screw, Shoulder (4-40)
110879	Spring, Printing Trip Link
111017	Screw (6-40 x 5/16 Fil.)
119649	Ring, Retaining
119651	Ring, Retaining
125011	Washer, Flat
125015	Washer, Flat
125212	Screw, Shoulder (6-40)
151152	Screw (6-40 x 1/4 Hex.)
151630	Screw (6-40 x 1/4 Hex.)
151692	Screw (6-40 x 3/16 Fil.)
156230	Stud, Lifter Pivot
156243	Roller, Lifter Arm
156252	Lifter, Function Blade (w/Hub)
156396	Eccentric, Oscillating Drive Link
156413	Link, Correcting Drive
156484	Bracket, Printing Latch Mounting
156488	Post, Spring
156937	Link, Printing Drive
156938	Screw, Trip Link Eccentric (6-40 Fil.)
159434	Plate, Lifter Mounting
159506	Post, Oscillating Drive Link (See Note on page 2-5)
159512	Link, Printing Trip
159539	Arm, Printing Pivot (w/Stud)
159626	Extension, Correcting Drive Link
159654	Latch, Printing
159994	Plate, Lifter Arm Lock
159995	Arm, Lifter (w/Stud)
159997	Screw, Lock Plate Eccentric

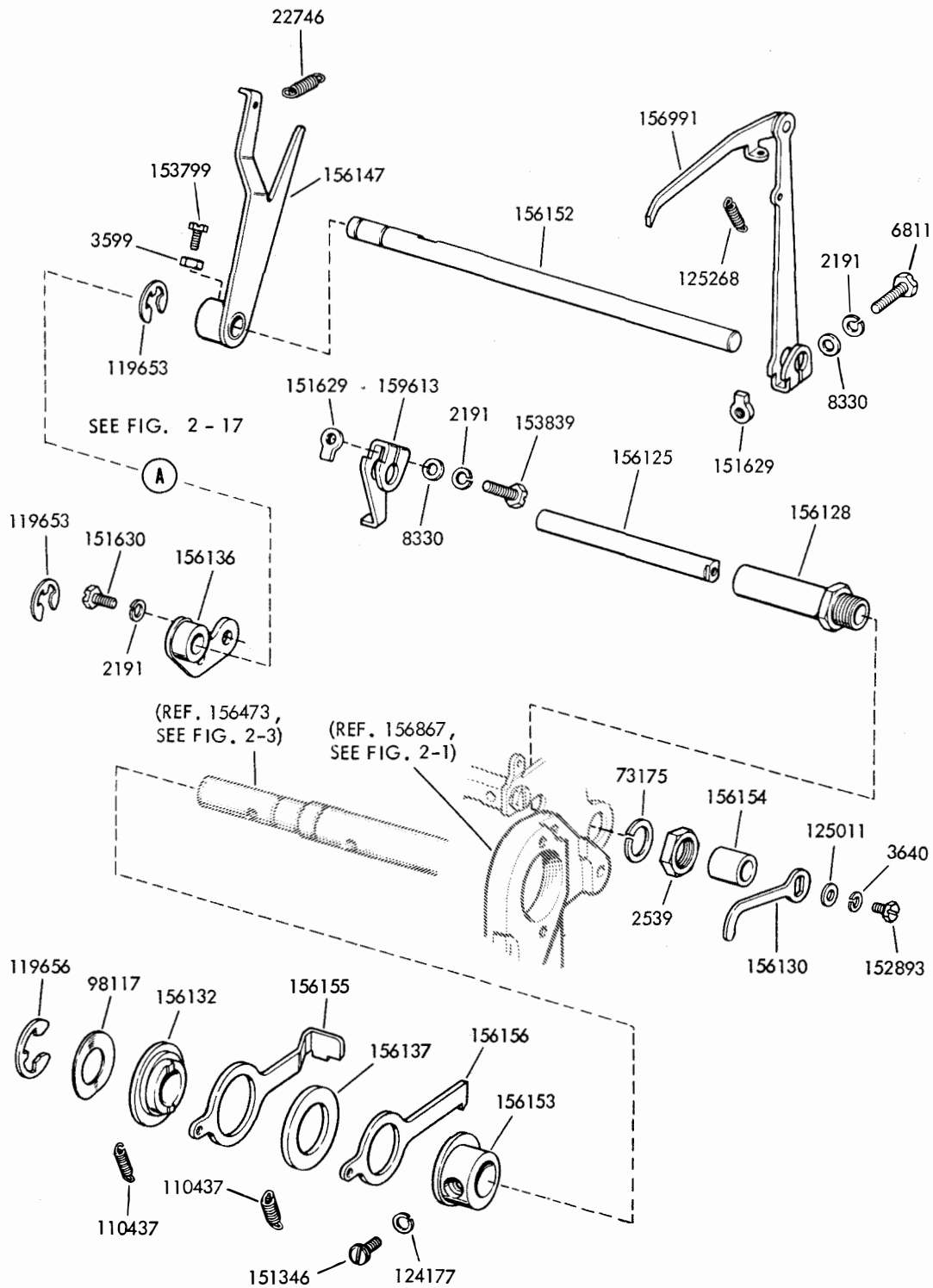


FIGURE 2-18. 159351 MODIFICATION KIT TO ADD NON-INTERFERING BLANK TAPE FEED OUT
 (INCLUDES ALL PARTS ON THIS PAGE AND PAGES 2-38, 2-40)

NUMERICAL INDEX - FIGURE 2-18

Part Number	Description
2191	Washer, Lock
2539	Nut (3/8-32 Hex)
3599	Nut (4-40 Hex)
3640	Washer, Lock
6811	Screw (6-40 x 5/8 Hex)
8330	Washer, Flat
22746	Spring, Drive Arm
73175	Washer, Lock
98117	Washer, Spring
110437	Spring, Metering Pawl
119653	Ring, Retaining
119656	Ring, Retaining
124177	Washer, Lock
125011	Washer, Flat
125268	Spring, Pawl Assembly
151346	Screw (6-40 x 3/8 Fil)
151629	Nut, Lug (6-40)
151630	Screw (6-40 x 1/4 Hex)
152893	Screw (4-40 x 1/4 Hex)
153799	Screw (4-40 x 21/64 Hex)
153839	Screw (6-40 x 5/8 Hex)
156125	Shaft, Non-Interfering Lever
156128	Bushing, Clamp Arm
156130	Lever, Non-Interfering
156132	Bearing, Eccentric
156136	Bracket, Shaft Mounting
156137	Washer, Flat
156147	Arm, Feed-Out Drive
156152	Shaft, Feed-Out Drive
156153	Collar, Feed-Out Eccentric
156154	Collar, Non-Interfering Lever
156155	Pawl, Metering Feed
156156	Pawl, Metering Check (Outer Ratchet)
156991	Pawl Assembly, Feed-Out
159613	Arm, Non-Interfering Clamp

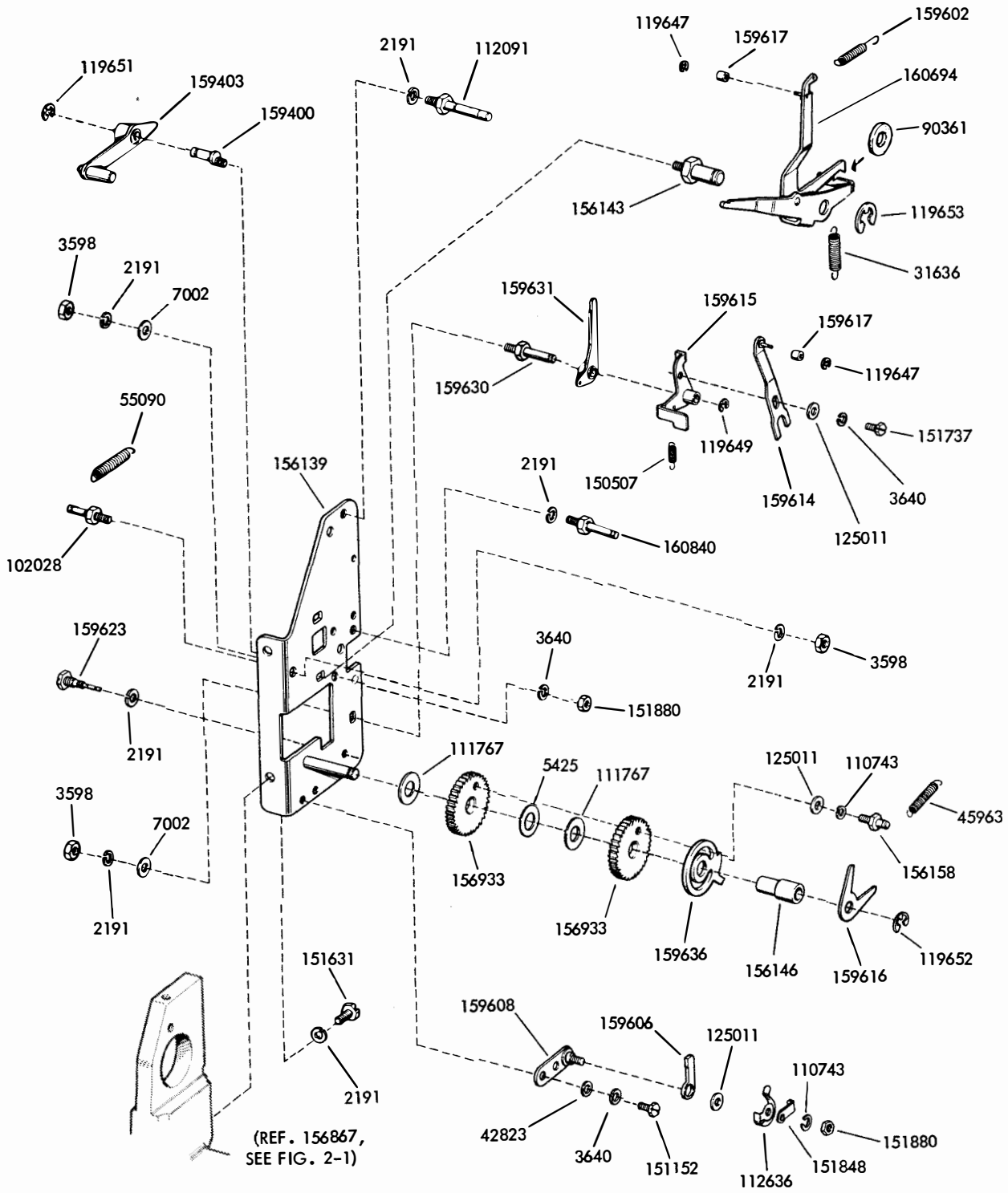


FIGURE 2-19. 159351 MODIFICATION KIT TO ADD NON-INTERFERING BLANK TAPE FEED OUT (INCLUDES ALL PARTS ON THIS PAGE AND PAGES 2-36, 2-40)

NUMERICAL INDEX - FIGURE 2-19

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex)
3640	Washer, Lock
5425	Shim (.010)
7002	Washer, Flat
31636	Spring, Release Arm
42823	Washer, Flat
45963	Spring, Ratchet Return
55090	Spring, Switch Lever
90361	Washer, Felt
102028	Post, Spring
110743	Washer, Lock
111767	Washer, Flat
112091	Post, Spring
112636	Spring, Check Pawl Clock
119647	Ring, Retaining
119649	Ring, Retaining
119651	Ring, Retaining
119652	Ring, Retaining
119653	Ring, Retaining
125011	Washer, Flat
150507	Spring, Latch Arm
151152	Screw (4-40 x 3/16 Hex)
151631	Screw (6-40 x 5/16 Hex)
151737	Screw (4-40 x 11/64 Hex)
151848	Lock, Spring
151880	Nut (4-40 Hex)
156139	Frame, Feed-Out Mounting (W/Shaft)
156143	Shaft, Latch Assembly
156146	Spacer
156158	Post, Spring
156933	Ratchet, Metering
159400	Shaft, Lifter Lever Eccentric
159403	Lever Assembly
159602	Spring
159606	Pawl, Metering Check (Inner Ratchet)
159608	Plate, Check Pawl Mounting (W/Stud)
159614	Arm, Kick-Out (W/Shaft)
159615	Arm, Latch (W/Hub)
159616	Lever, Non-Interfering Intermediate
159617	Roller
159623	Post, Spring
159630	Shaft, Latch
159631	Latch, Release Arm (W/Hub)
159636	Plate, Tape Length Adjusting
160694	Latch Assembly, Feed-Out
160840	Post, Spring

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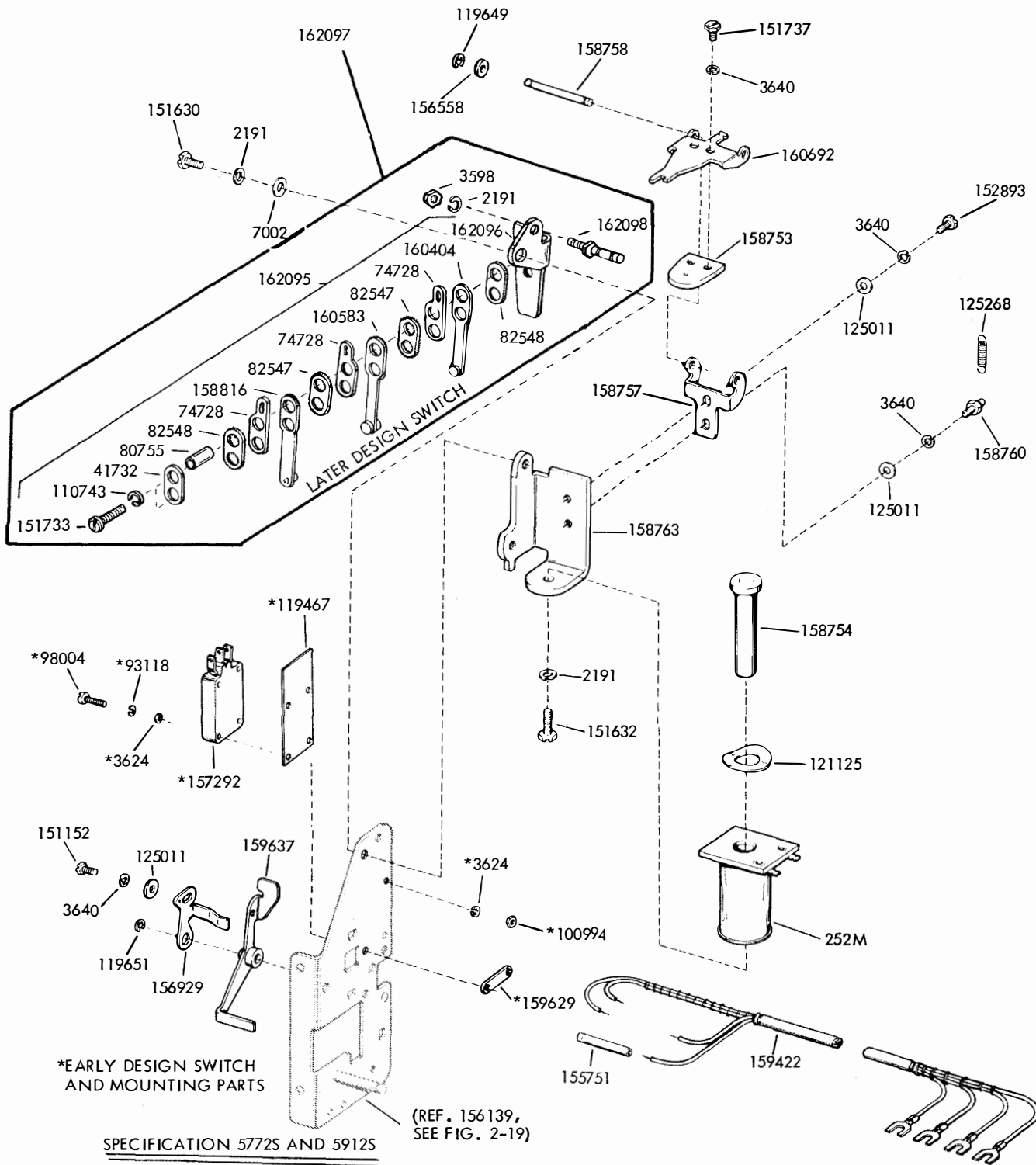


FIGURE 2-20. 159351 MODIFICATION KIT TO ADD NON-INTERFERING BLANK TAPE FEED OUT (INCLUDES ALL PARTS ON THIS PAGE AND PAGES 2-36, 2-38)

NUMERICAL INDEX - FIGURE 2-20

Part Number	Description
252M	Coil, Feed-Out Magnet
2191	Washer, Lock
3598	Nut (6-40 Hex)
3624	Washer, Flat
3640	Washer, Lock
7002	Washer, Flat
41732	Washer
74728	Terminal
80755	Bushing
82547	Insulator
82548	Insulator
93118	Washer, Lock
98004	Screw (2-56 x 0.685 Fil)
100994	Nut (2-56 Hex)
110743	Washer, Lock
119467	Insulator
119649	Ring, Retaining
119651	Ring, Retaining
121125	Washer, Spring
125011	Washer, Flat
125268	Spring, Armature
151152	Screw (4-40 x 3/16 Hex)
151630	Screw (6-40 x 1/4 Hex)
151632	Screw (6-40 x 3/8 Hex)
151733	Screw (4-40 x 9/16 Fil)
151737	Screw (4-40 x 11/64 Hex)
152893	Screw (4-40 x 1/4 Hex)
155751	Sleeve, Insulating
156558	Washer, Felt
156929	Bracket, Switch Lever
157292	Switch, Tape-Out Sensitive
158753	Armature (W/Disk), Feed-Out
158754	Core, Feed-Out Magnet
158757	Hinge, Armature Mounting
158758	Shaft, Armature Bail
158760	Post, Spring
158763	Bracket, Feed-Out Magnet Mounting
158816	Contact
159422	Cable Assembly, Feed-Out
159629	Plate, Nut
159637	Lever (W/Hub), Switch
160404	Contact
160583	Contact
160692	Bail, Armature
162095	Contact Assembly
162096	Bracket
162098	Post, Spring

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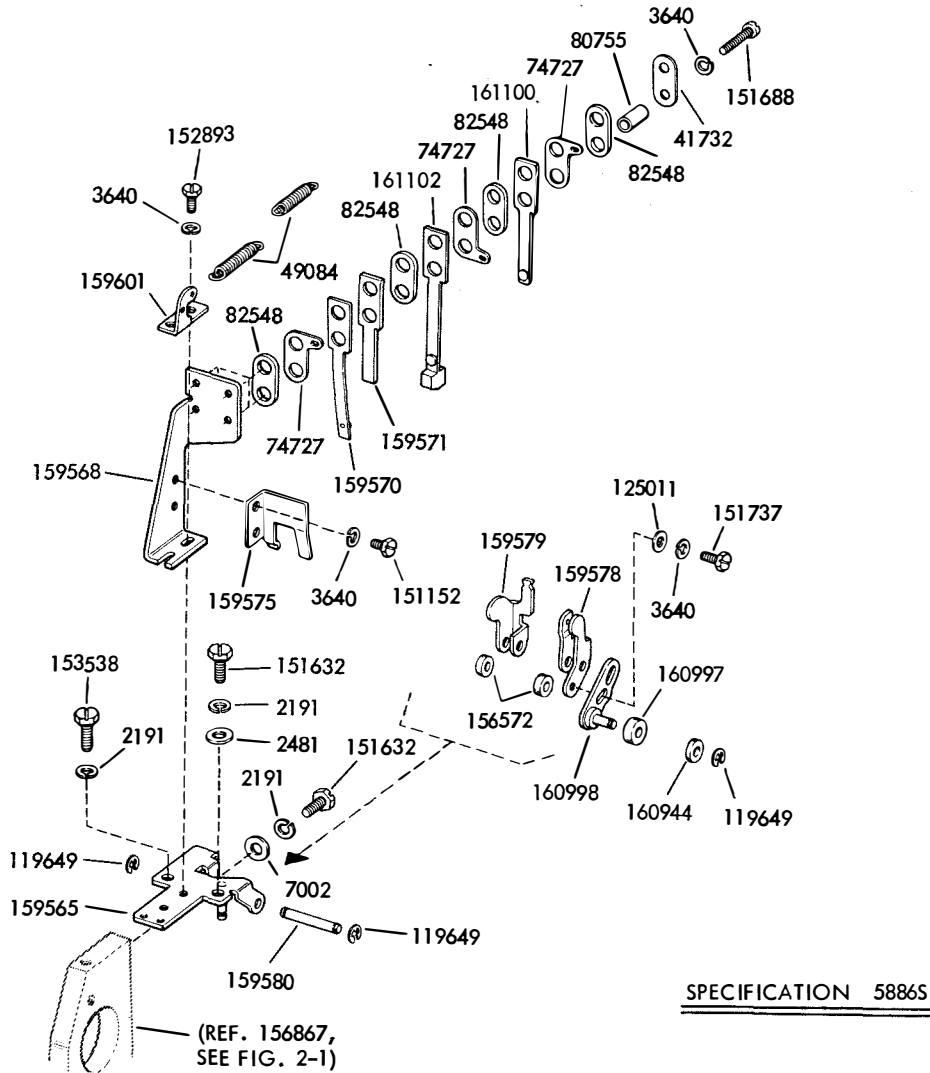


FIGURE 2-21. 159381 MODIFICATION KIT TO ADD TIMING CONTACTS

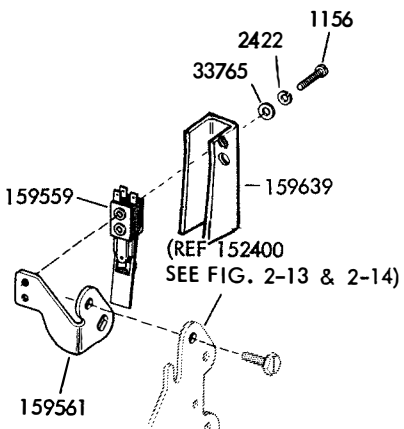


FIGURE 2-22. 159553 MODIFICATION KIT TO ADD LETTERS-FIGURES CONTACT

*PECULIAR TO 159380 MODIFICATION KIT

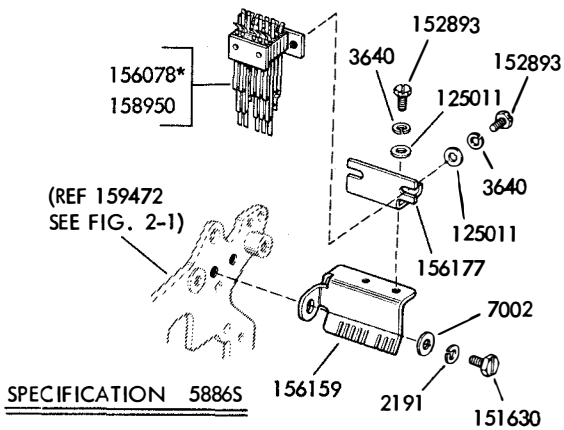


FIGURE 2-23. 159379 AND 159380 MODIFICATION KITS TO ADD CODE READING CONTACTS

NUMERICAL INDEX - FIGURE 2-21, 2-22, 2-23

Part Number	Description
1156	Screw (2-56 x 9/16 Fil.)
2191	Washer, Lock
2422	Washer, Lock
2481	Washer, Flat
3640	Washer, Lock
7002	Washer, Flat
33765	Washer, Flat
41732	Washer, Contact
49084	Spring, Bail
74727	Terminal, Contact
80755	Bushing, Insulating
82548	Insulator
119649	Ring, Retaining
125011	Washer, Flat
151152	Screw (4-40 x 3/16 Hex.)
151630	Screw (6-40 x 1/4 Hex.)
151632	Screw (6-40 x 3/8 Hex.)
151688	Screw (4-40 x 5/8 Fil.)
151737	Screw (4-40 x 11/64 Hex.)
152893	Screw (4-40 x 1/4 Hex.)
153538	Screw (6-40 x 7/16 Hex.)
156078	Contact Assembly, Code Reading (Transfer)
156159	Bracket, Code Reading Contact Mounting
156177	Bracket, Code Reading Contact
156572	Washer, Felt
158950	Contact Assembly, Code Reading (Make-Only)
159379	Modification Kit to Add Code Reading Contacts (Make-Only)
159380	Modification Kit to Add Code Reading Contacts (Transfer)
159381	Modification Kit to Add Timing Contacts (Double-Contact)
159553	Modification Kit to Add Letters-Figures Contact
159559	Contact Assembly, Letters-Figures
159561	Bracket, Letters-Figures Contact Mounting
159565	Bracket, Timing Contact Mounting
159568	Bracket, Timing Contact
159570	Spring, Contact
159571	Stiffener, Contact Spring
159575	Bracket, Contact Stop
159578	Bail, Contact Actuating (Front)
159579	Bail, Contact Actuating (Rear)
159580	Shaft, Actuating Bail
159601	Bracket, Spring
159639	Cover, Letters-Figures Contact
160944	Washer, Felt
160997	Roller, Cam Follower
160998	Arm, Cam Follower
161100	Spring, Contact
161102	Spring, Contact

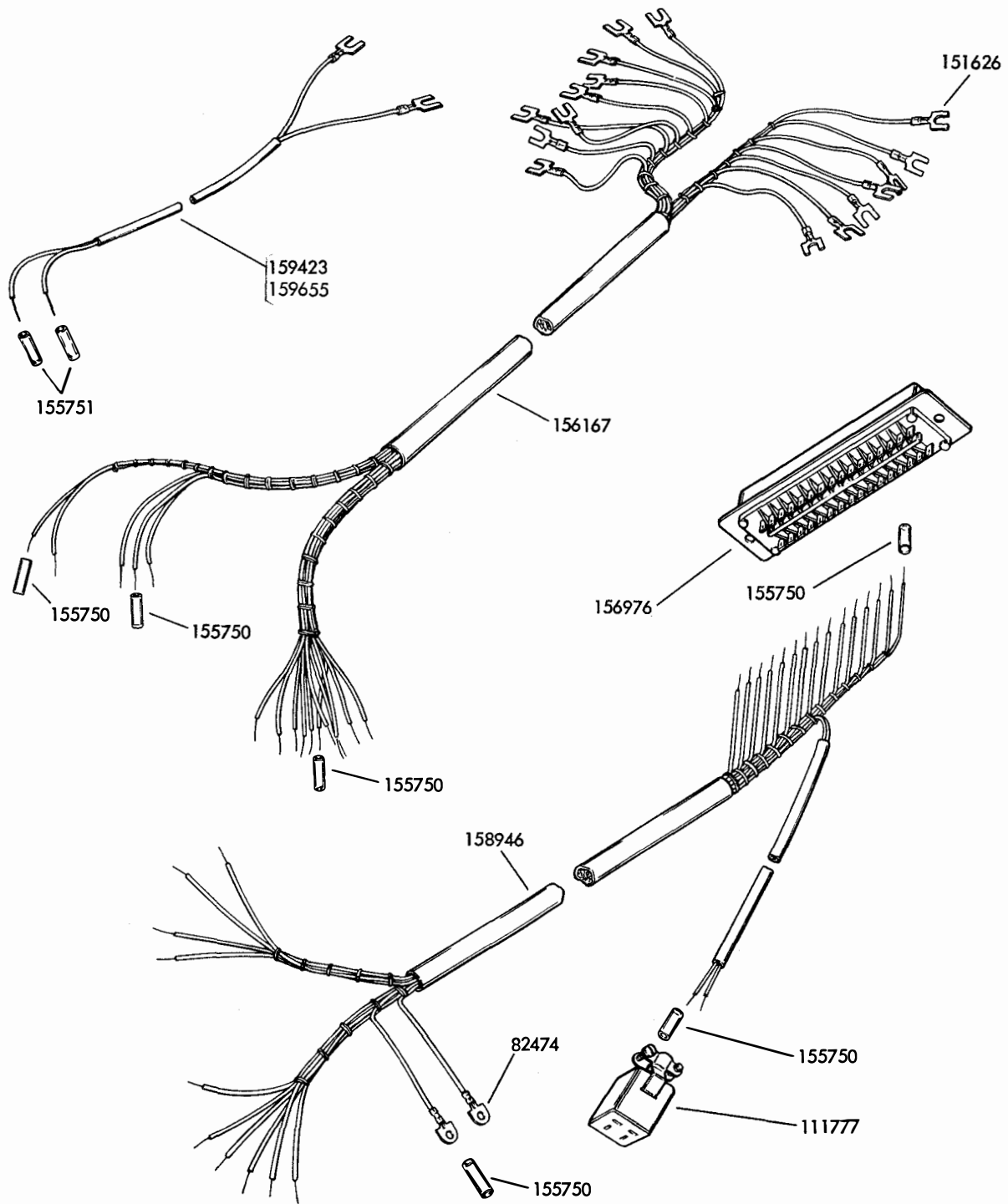


FIGURE 2-24. CABLES

NUMERICAL INDEX - FIGURE 2-24

Part Number	Description
82474	Terminal
111777	Connector , Receptacle
151626	Terminal
155750	Sleeve, Insulating
155751	Sleeve, Insulating
156167	Cable Assembly (Used with Letters-figures Contacts)
156976	Connector , Plug (32 PT)
158946	Cable Assembly
159423	Cable Assembly (Used with Letters-figures Contacts)
159655	Cable Assembly

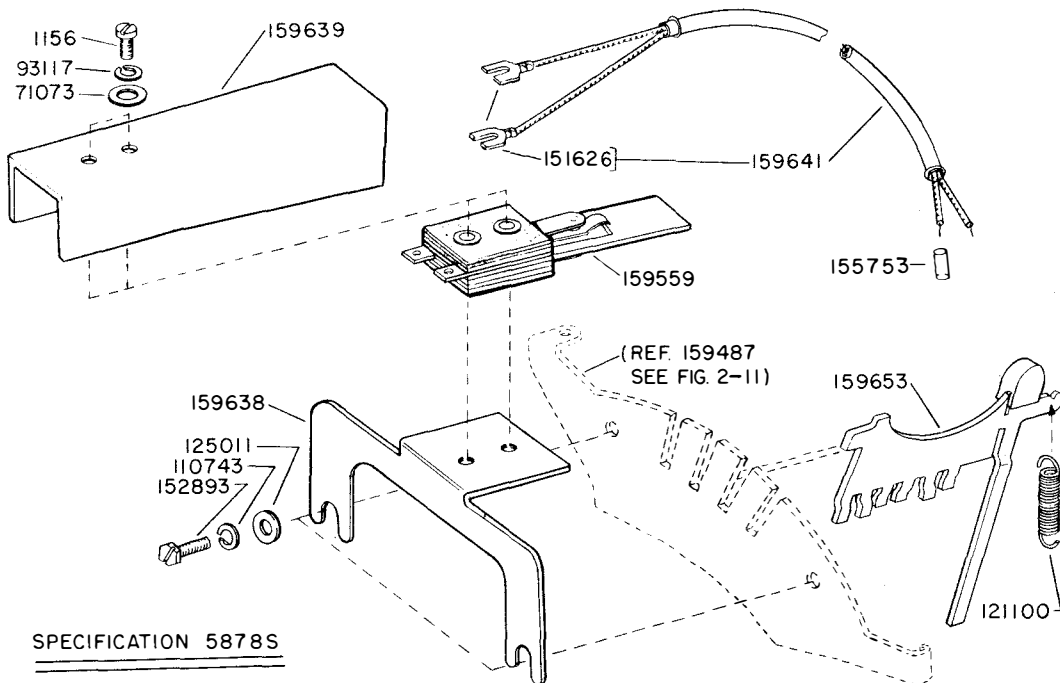


FIGURE 2-25. 159360 MODIFICATION KIT TO ADD SIGNAL BELL CONTACT (ON UPPER CASE "S")

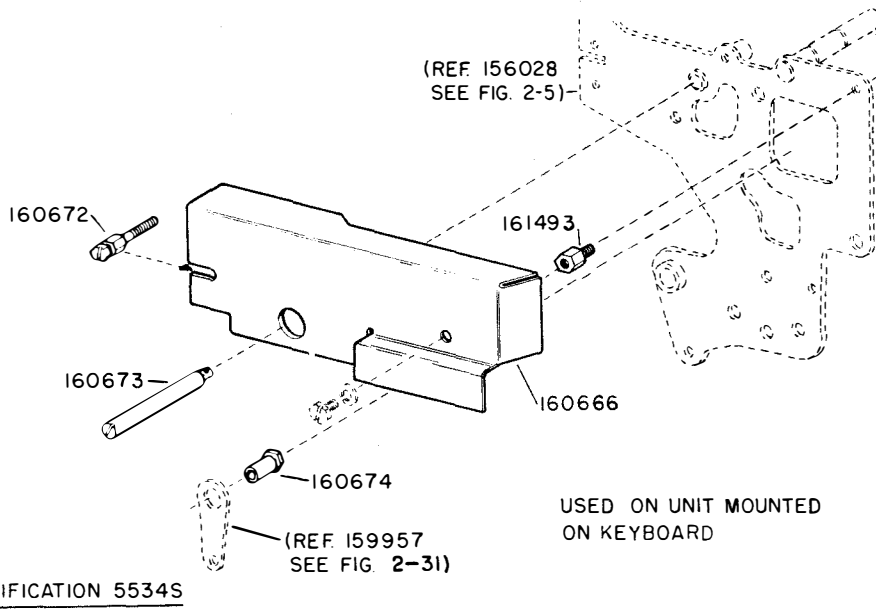


FIGURE 2-26. 160881 MODIFICATION KIT TO ADD GUARD TO COVER BACKSPACE MECHANISM

NUMERICAL INDEX - FIGURES 2-25, 2-26

Part Number	Description
1156	Screw (2-56 x 9/16 Fil.)
71073	Washer, Flat
93117	Washer, Lock
110743	Washer, Lock
121100	Spring, Function Blade
125011	Washer, Flat
151626	Terminal
152893	Screw (4-40 x 1/4 Hex.)
155753	Sleeve, Insulating
159360	Modification Kit to Add Signal Bell Contact (On Upper Case "S")
159559	Contact, Signal Bell
159638	Bracket, Contact Mounting
159639	Cover, Contact Insulating
159641	Cable Assembly, Bell Contact
159653	Blade, Signal Bell Function
160666	Guard, Backspace
160672	Stud, Mounting
160673	Shaft, Feed Wheel
160674	Nut, Special (6-40 Hex.)
161493	Post, Supporting

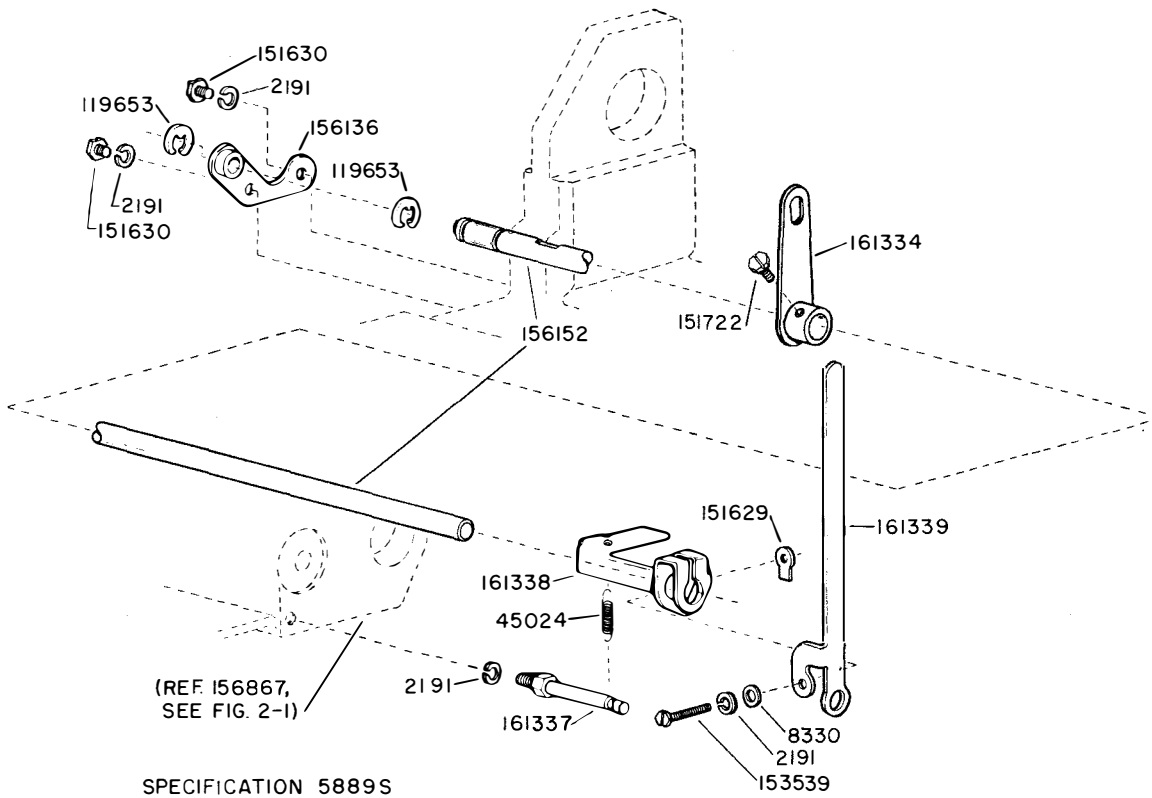


FIGURE 2-27. 161340 MODIFICATION KIT TO ADD MANUAL INTERFERING LETTERS TAPE FEED-OUT

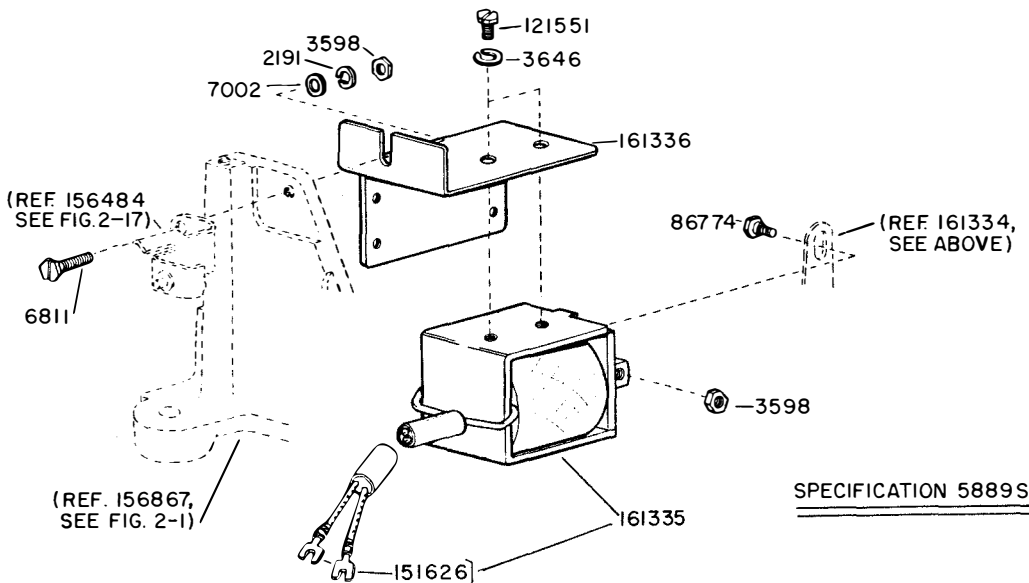


FIGURE 2-28. 161341 MODIFICATION KIT TO ADD SOLENOID OPERATION TO LETTERS FEED-OUT

NUMERICAL INDEX-FIGURES 2-27, 2-28

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex.)
3646	Washer, Lock
6811	Screw (6-40 x 5/8 Hex.)
7002	Washer, Flat
8330	Washer, Flat
45024	Spring, Trip Lever
86774	Screw, Shoulder (6-40 Hex.)
119653	Ring, Retaining
121551	Screw (8-32 x 1/4 Hex.)
151626	Terminal
151629	Nut (6-40 Special)
151630	Screw (6-40 x 1/4 Hex.)
151722	Screw (6-40 x 3/16 Hex.)
153539	Screw (6-40 x 11/16 Hex.)
156136	Bracket, Shaft Mounting
156152	Shaft, Drive
161334	Lever, Stop (w/Hub)
161335	Solenoid Assembly, Letters Feed-Out
161336	Bracket, Solenoid Mounting
161337	Post, Spring
161338	Lever, Trip
161339	Lever, Hand

GEAR SETS						
SET NUMBER	PINION	DRIVEN GEAR	SPEED			
			7.00 UNIT CODE		7.42 UNIT CODE	
			O.P.M.	W.P.M.	O.P.M.	W.P.M.
159893	159894	159895	300	65	368	60
159890	159891	159892	—	—	460	75
159887	159888	159889	636	106	600	100

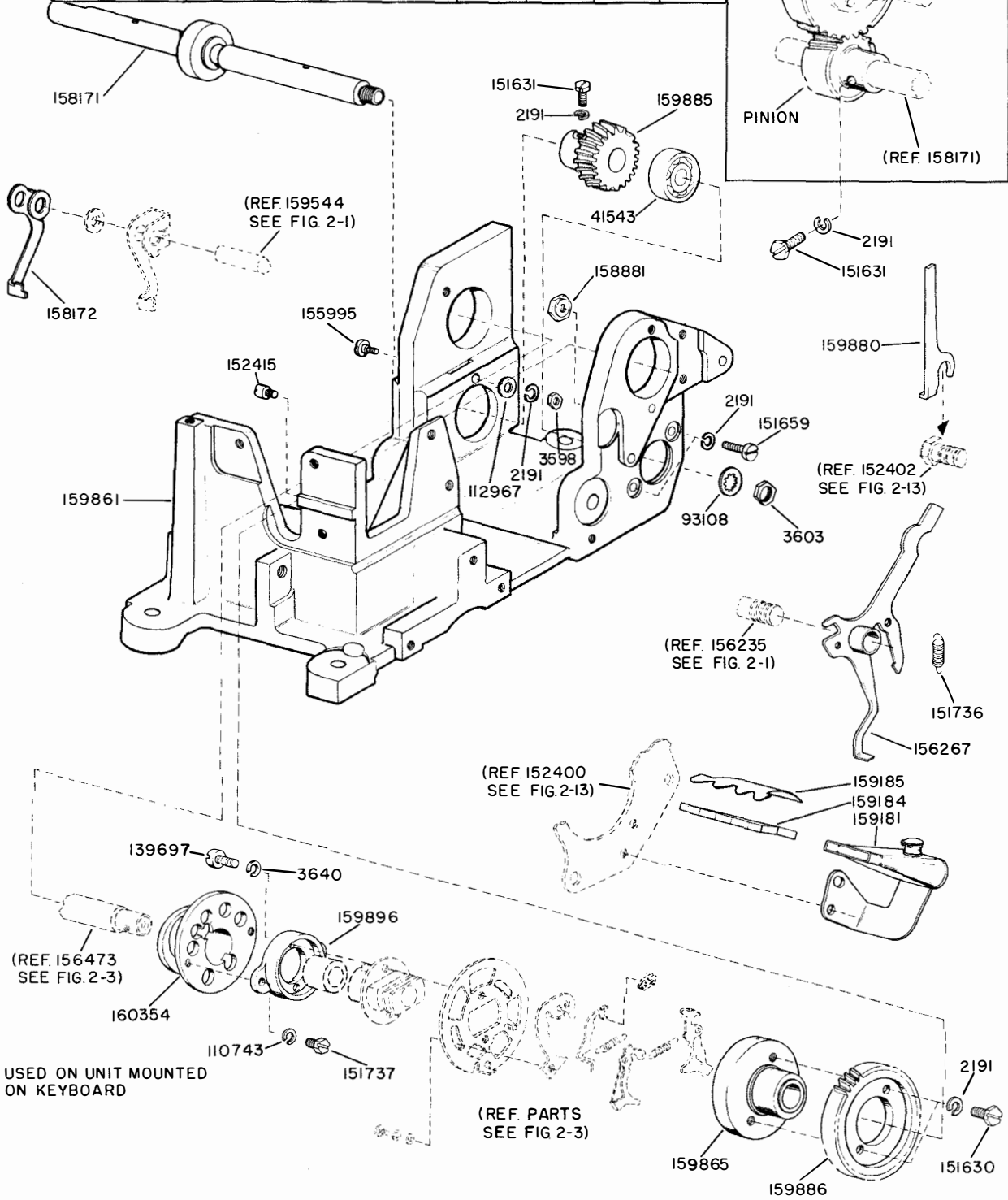
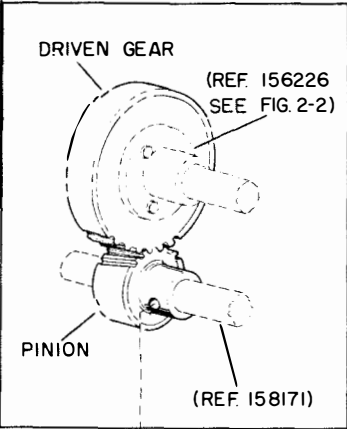
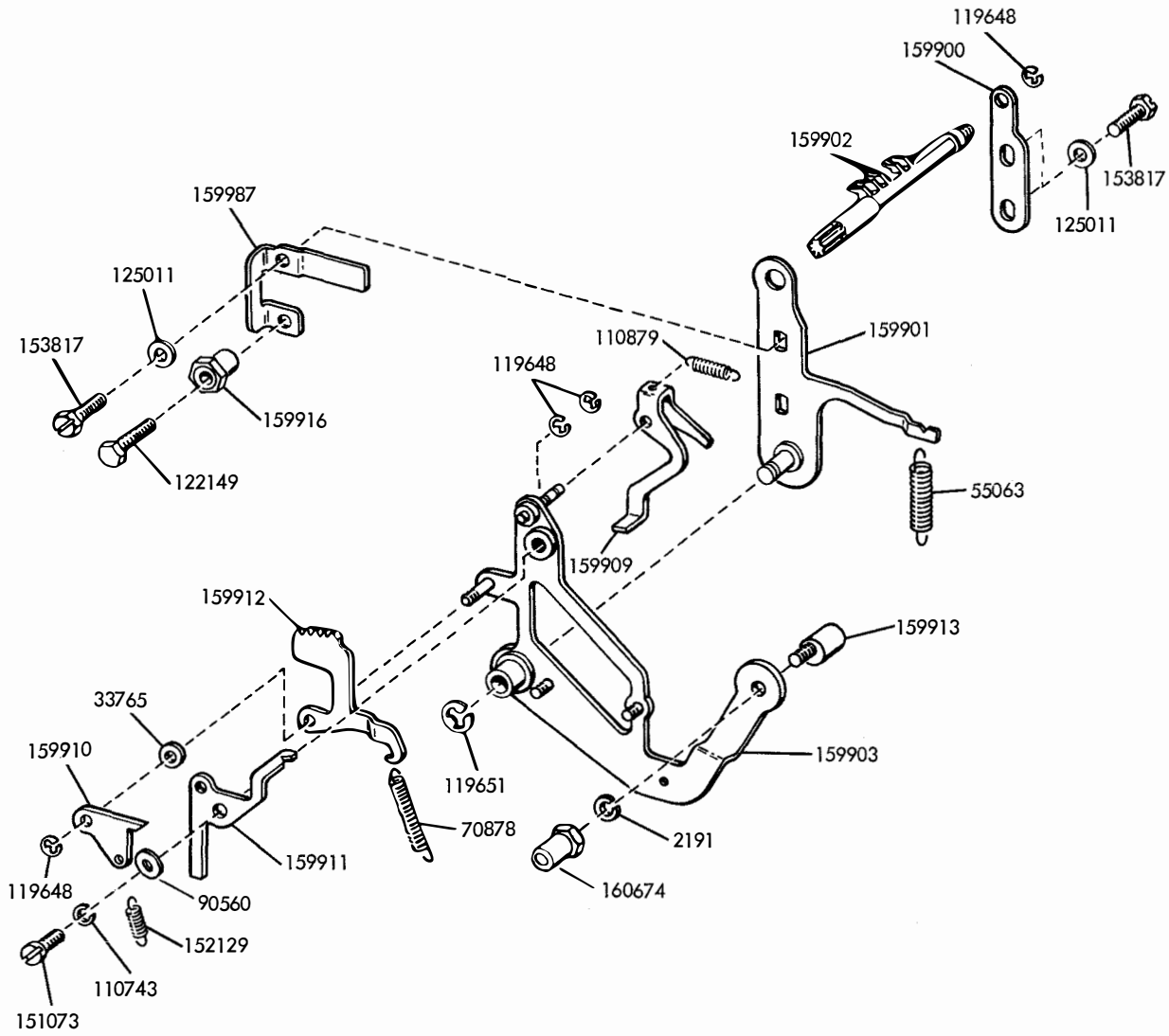


FIGURE 2-29. TWO-SHAFT MECHANISM

NUMERICAL INDEX - FIGURE 2-29

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex)
3603	Nut (1/4-32 Hex)
3640	Washer, Lock
41543	Bearing, Jack Shaft
93108	Washer, Lock
110743	Washer, Lock
112967	Washer, Spacer
139697	Screw (4-40 x 9/32 Fil)
151630	Screw (6-40 x 1/4 Hex)
151631	Screw (6-40 x 5/16 Hex)
151659	Screw (6-40 x 1/2 Fil)
151736	Spring, Main Trip Lever
151737	Screw (4-40 x 11/64 Hex)
152415	Stud, Locating
155995	Screw (6-40 Shoulder)
156267	Lever, Main Trip (W/Hub)
158171	Shaft, Jack (W/Bearing)
158172	Lever, Trip
158881	Nut (6-40 Hex)
159181	Lubricator Assembly, Selector
159184	Wick, Oil
159185	Retainer, Wick
159861	Frame, Main
159865	Drum, Clutch (W/Bearing)
159880	Slide, Keyboard Selector
159885	Gear, Clutch Drive Helical (28T)
159886	Gear, Clutch Driven Helical (49T)
159888	Pinion, Drive Helical (28T)
159889	Gear, Driven Helical (49T)
159891	Pinion, Drive Helical (21T)
159892	Gear, Driven Helical (48T)
159894	Pinion, Drive Helical (14T)
159895	Gear, Driven Helical (40T)
159896	Collar, Cam
160354	Cam, Function (W/Pin)

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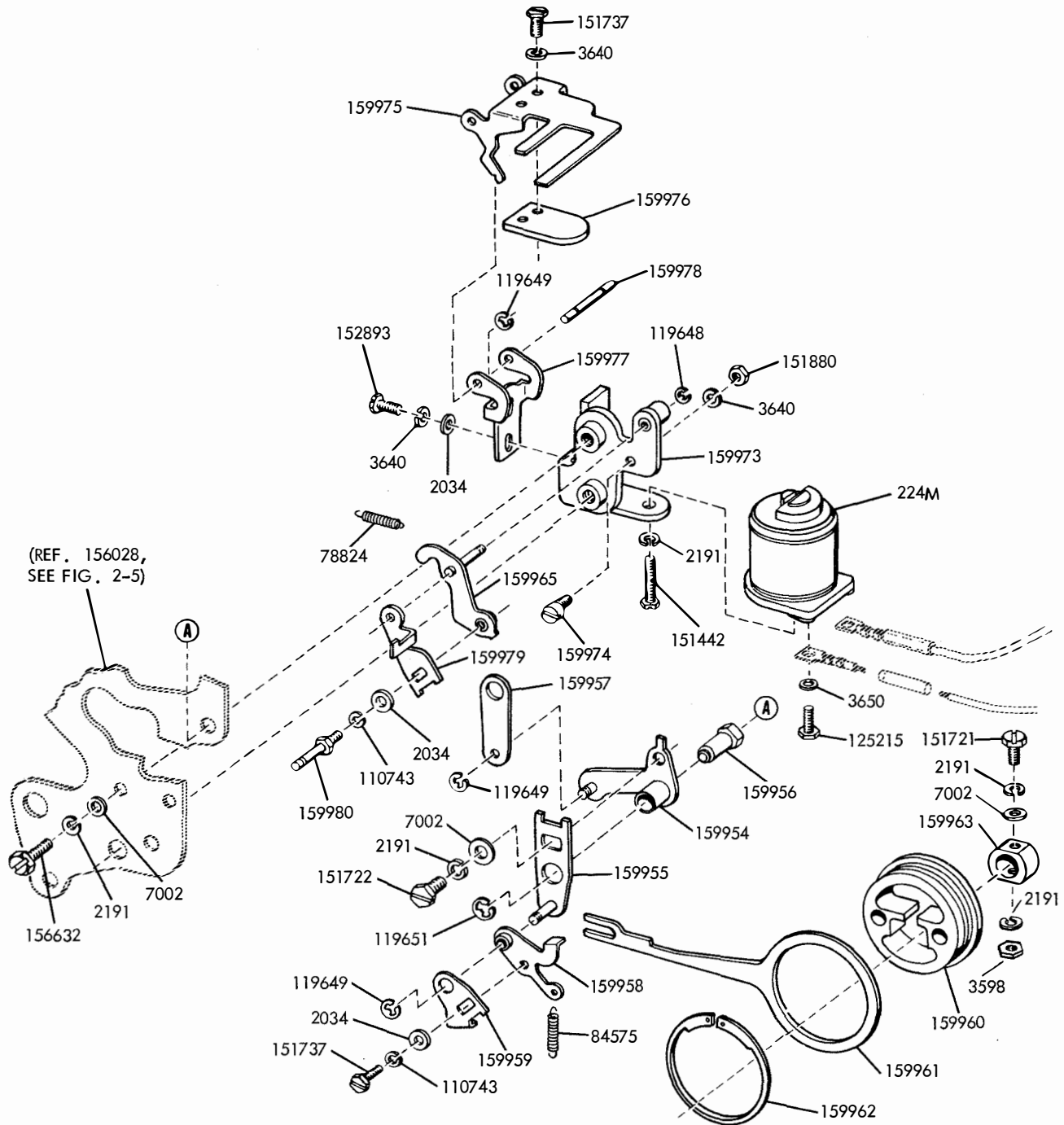
SPECIFICATION 55345

FIGURE 2-30. 159363 MODIFICATION KIT TO ADD MANUAL BACKSPACE

NUMERICAL INDEX - FIGURE 2-30

Part Number	Description
2191	Washer, Lock
33765	Washer
55063	Spring, Bell Crank
70878	Spring, Gear Segment
90560	Washer, Flat
110743	Washer, Lock
110879	Spring, Pawl
119648	Ring, Retaining
119651	Ring, Retaining
122149	Screw (4-40 x 5/8 Hex)
125011	Washer, Flat
151073	Screw (4-40 x 9/32 Fil)
152129	Spring, Latch
153817	Screw (4-40 x 3/8 Hex)
159363	Modification Kit To Add Manual Backspace
159900	Plate
159901	Plate W/Post
159902	Shaft, Rake
159903	Crank, Bell
159909	Pawl, Feed
159910	Latch, Return
159911	Plate
159912	Gear, Segment
159913	Screw, Eccentric
159914	Nut, Post
159916	Eccentric
159987	Bracket, Guide
160674	Nut, Post

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SPECIFICATION 5534S

FIGURE 2-31. 159364 MODIFICATION KIT TO ADD POWER DRIVE TO BACKSPACE

NUMERICAL INDEX - FIGURE 2-31

Part Number	Description
224M	Magnet Assembly
2034	Washer, Flat
2191	Washer, Lock
3598	Nut (6-40 Hex)
3640	Washer, Lock
3650	Washer, Flat
7002	Washer, Flat
78824	Spring
84575	Spring
110743	Washer, Lock
119648	Ring, Retaining
119649	Ring, Retaining
119651	Ring, Retaining
125215	Screw (4-40 x 3/16 Hex)
151442	Screw (6-40 x 1/2 Hex)
151721	Screw (6-40 x 3/4 Hex)
151722	Screw (6-40 x 3/16 Hex)
151737	Screw (4-40 x 3/16 Hex)
151880	Nut (4-40)
152893	Screw (4-40 x 1/4 Hex)
156632	Screw (6-40 x 13/32 Hex)
159954	Link W/Stud, Adjusting
159955	Link W/Post, Drive
159956	Post
159957	Link
159958	Latch W/Bushing
159959	Extension, Latch
159960	Eccentric
159961	Arm, Eccentric
159962	Ring, Retaining
159963	Hub
159965	Arm W/Post, Adjusting
159973	Bracket W/Bushing
159974	Screw, Eccentric
159975	Bail, Armature
159976	Armature
159977	Hinge
159978	Shaft
159979	Arm, Non-Repeat
159980	Post, Spring

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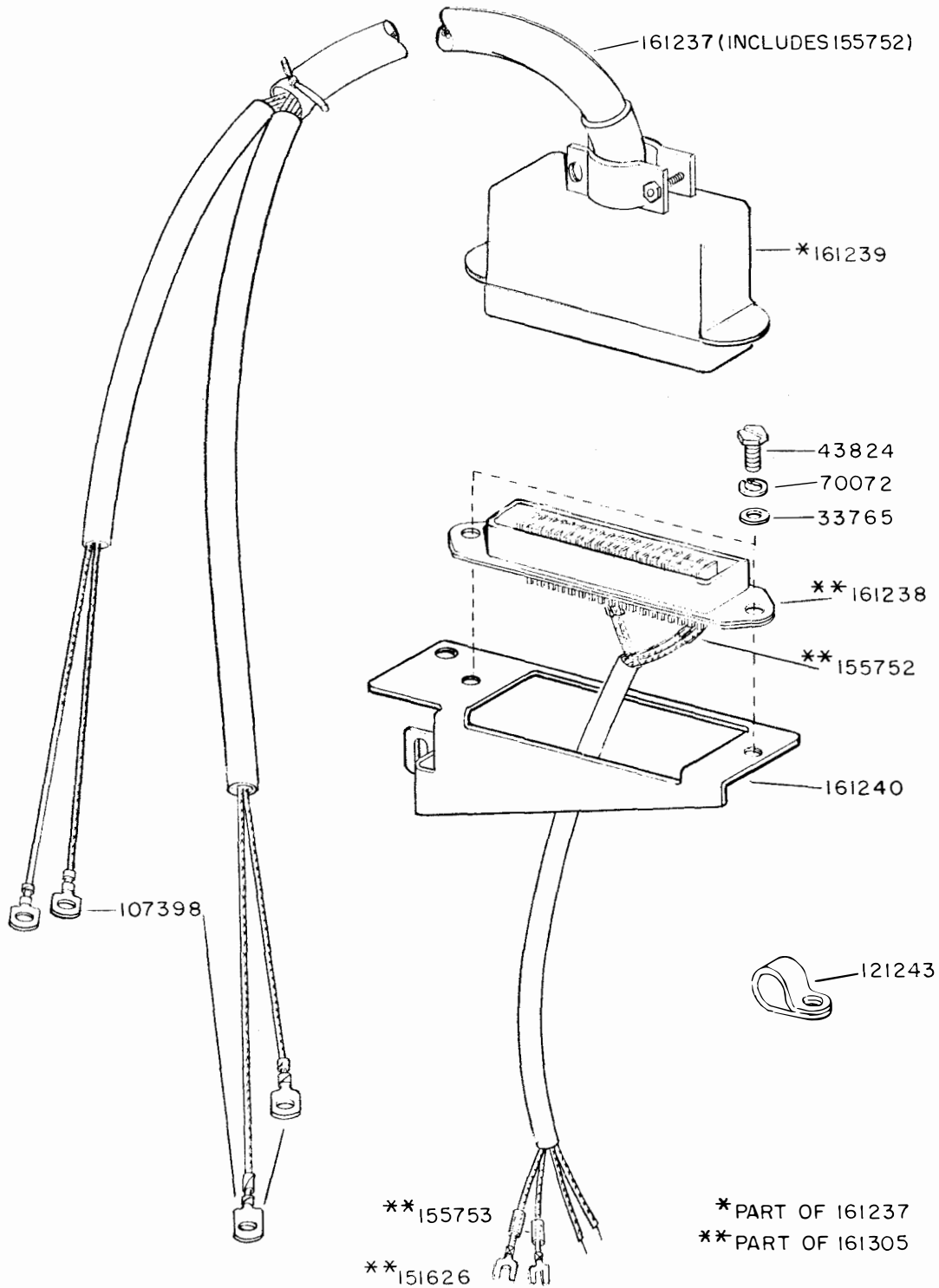
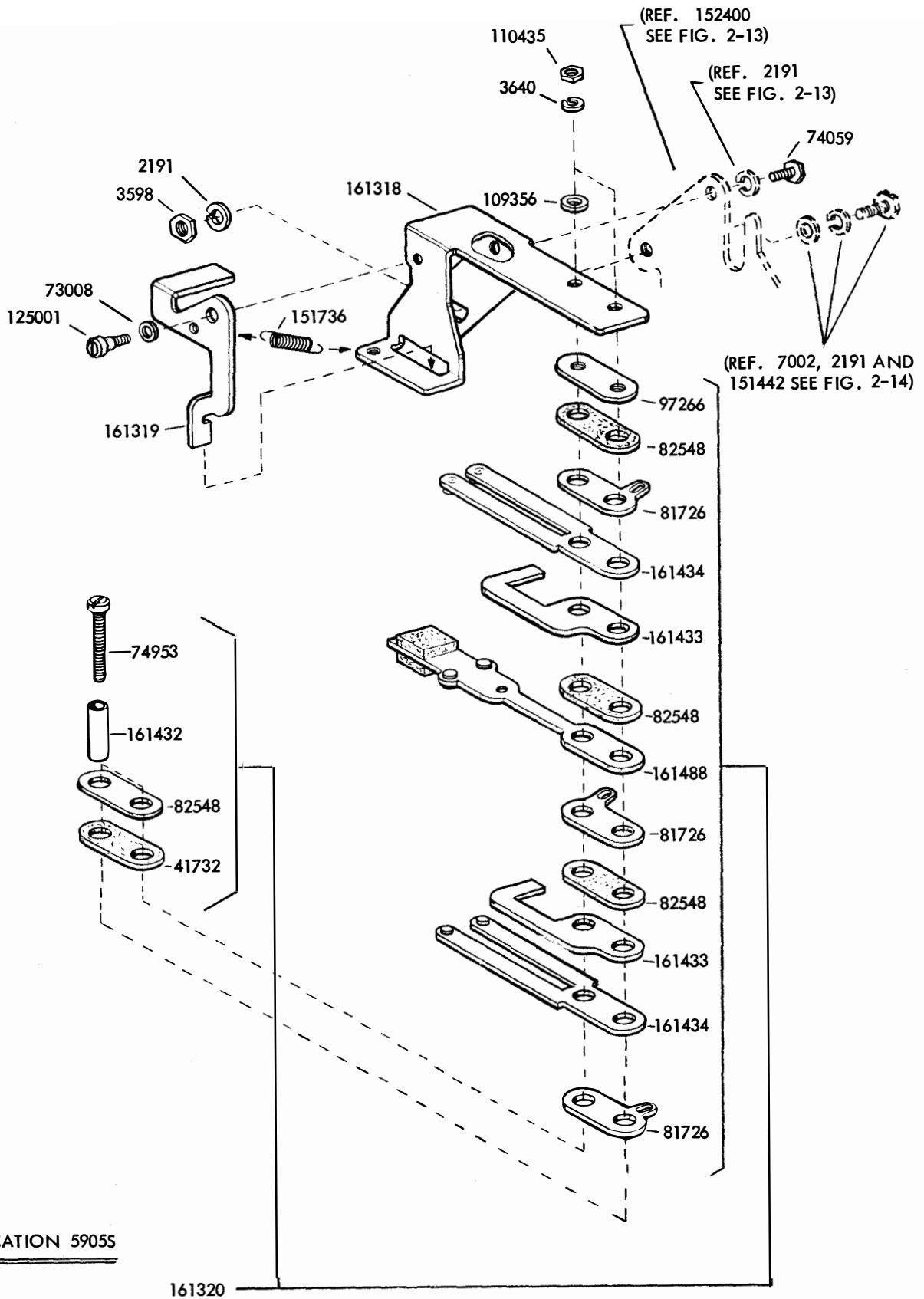


FIGURE 2-32. CABLES

NUMERICAL INDEX - FIGURE 2-32

Part Number	Description
33765	Washer, Lock
43824	Screw (3-48 x 3/16 Hex)
70072	Washer, Flat
107398	Terminal
121243	Clamp, Cable
151626	Terminal
155752	Sleeve, Insulating
155753	Sleeve, Insulating
161237	Cable Assembly
161238	Connector, Receptacle
161239	Plug
161240	Bracket, Connector
161305	Cable Assembly



SPECIFICATION 59055

FIGURE 2-33. 161321 LETTER - FIGURES CONTACT ASSEMBLY

NUMERICAL INDEX - FIGURE 2-33

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex)
3640	Washer, Lock
41732	Plate, Clamp
73008	Washer, Flat
74059	Screw (6-40 x 7/32 Hex)
74953	Screw (4-40 x 13/16 Fil)
81726	Terminal
82548	Insulator
97266	Plate, Clamp
109356	Washer, Flat
110435	Nut (4-40 Hex)
125001	Screw
151736	Spring
161318	Bracket
161319	Lever
161320	Contact Assembly
161432	Bushing
161433	Stiffener
161434	Spring, Contact
161488	Spring, Contact



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SECTION 3

MOTOR UNIT

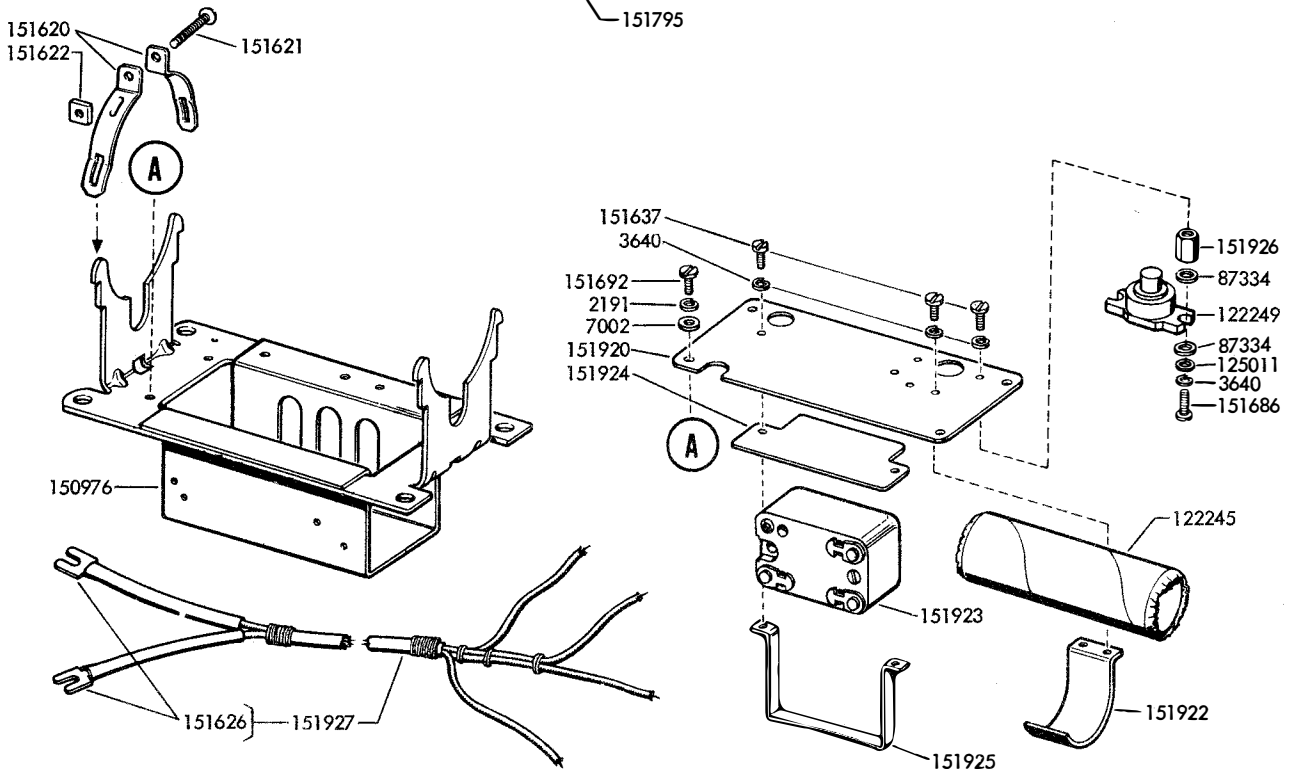
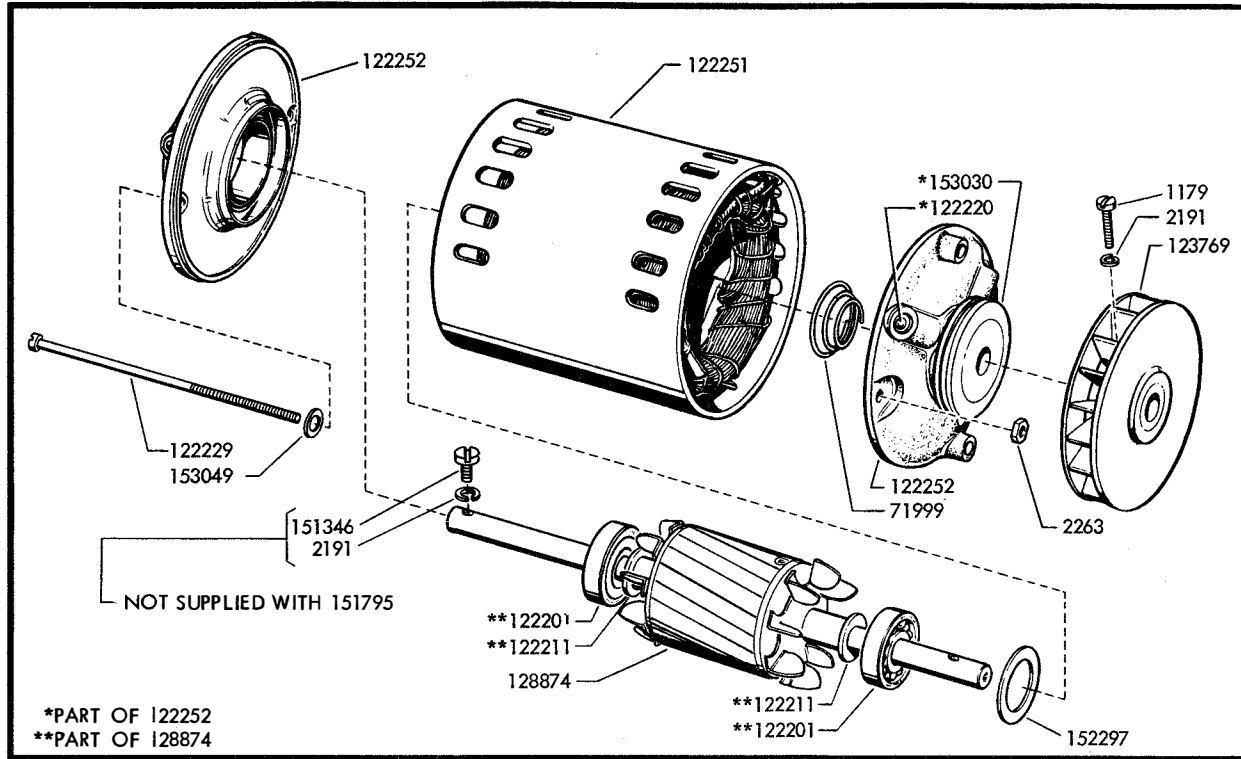


FIGURE 3-1. SYNCHRONOUS MOTOR UNIT

NUMERICAL INDEX - FIGURE 3-1

Part Number	Description
1179	Screw (6-40 x 5/8 Fil.)
2191	Washer, Lock
2263	Nut (8-32)
3640	Washer, Lock
7002	Washer, Flat
71999	Spring, Motor Thrust
87334	Washer, Insulating
122201	Bearing, Ball
122211	Washer, Pull
122220	Oiler, Ball
122229	Bolt, Clamping (8-32)
122245	Capacitor
122249	Switch, Thermostatic
122251	Stator, Motor
122252	Shield Assembly, End
123769	Fan, Motor
125011	Washer, Flat
128874	Rotor, Motor
150976	Bracket, Motor Mounting
151346	Screw (6-40 x 3/8 Fil.)
151620	Strap, Motor Mounting
151621	Screw (6-32 x 3/4 Rd.)
151622	Nut (6-32)
151626	Terminal
151637	Screw (4-40 x 1/4 Fil.)
151686	Screw (4-40 x 3/8 Fil.)
151692	Screw (6-40 x 3/16 Fil.)
151795	Motor, A. C. Synchronous (1/20 H.P., 115V/1/60 Cycle A. C. General Electrical Model 5SC19LG3A)
151920	Plate, Relay - Capacitor Mounting
151922	Clamp, Capacitor
151923	Relay
151924	Insulator, Relay
151925	Clamp, Relay
151926	Nut (4-40)
151927	Cable, Motor Unit
152297	Washer, Flat
153030	Mount, Vibration
153049	Washer, Fiber



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SECTION 4

TABLE AND COVER

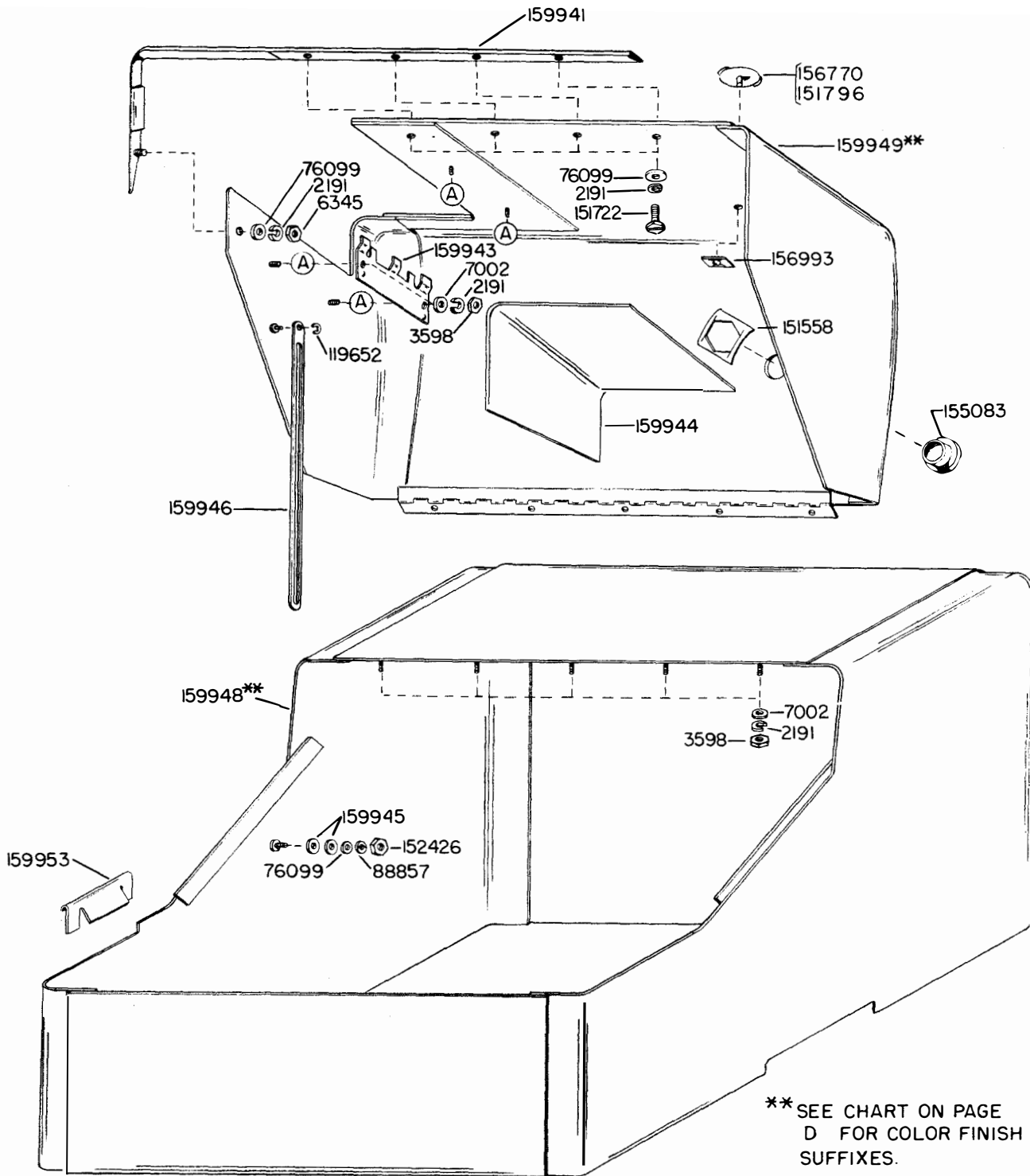


FIGURE 4-1 REPERFORATOR COVER (LRC)

NUMERICAL INDEX - FIGURE 4-1

Part Number	Description
2191	Washer, Lock
3598	Nut (6-40 Hex.)
6345	Nut (6-32 Hex.)
7002	Washer, Flat
76099	Washer, Flat
88857	Washer, Spring
119652	Ring, Retaining
151558	Nut, Speed
151722	Screw (6-40 x 3/16 Hex.)
151796	Plate, Identification (Bell)
152426	Nut, Self-Locking (6-40)
155083	Lens, Indicator Lamp
156770	Plate, Identification (Teletype)
156993	Nut, Speed
159941	Handle, Cover
159943	Bracket, Window
159944	Window, Cover
159945	Washer, Friction
159946	Arm, Lid Friction
159948**	Cover w/Bracket
159949**	Lid, Cover (w/Hinge)
159953	Plate, Tape Guide

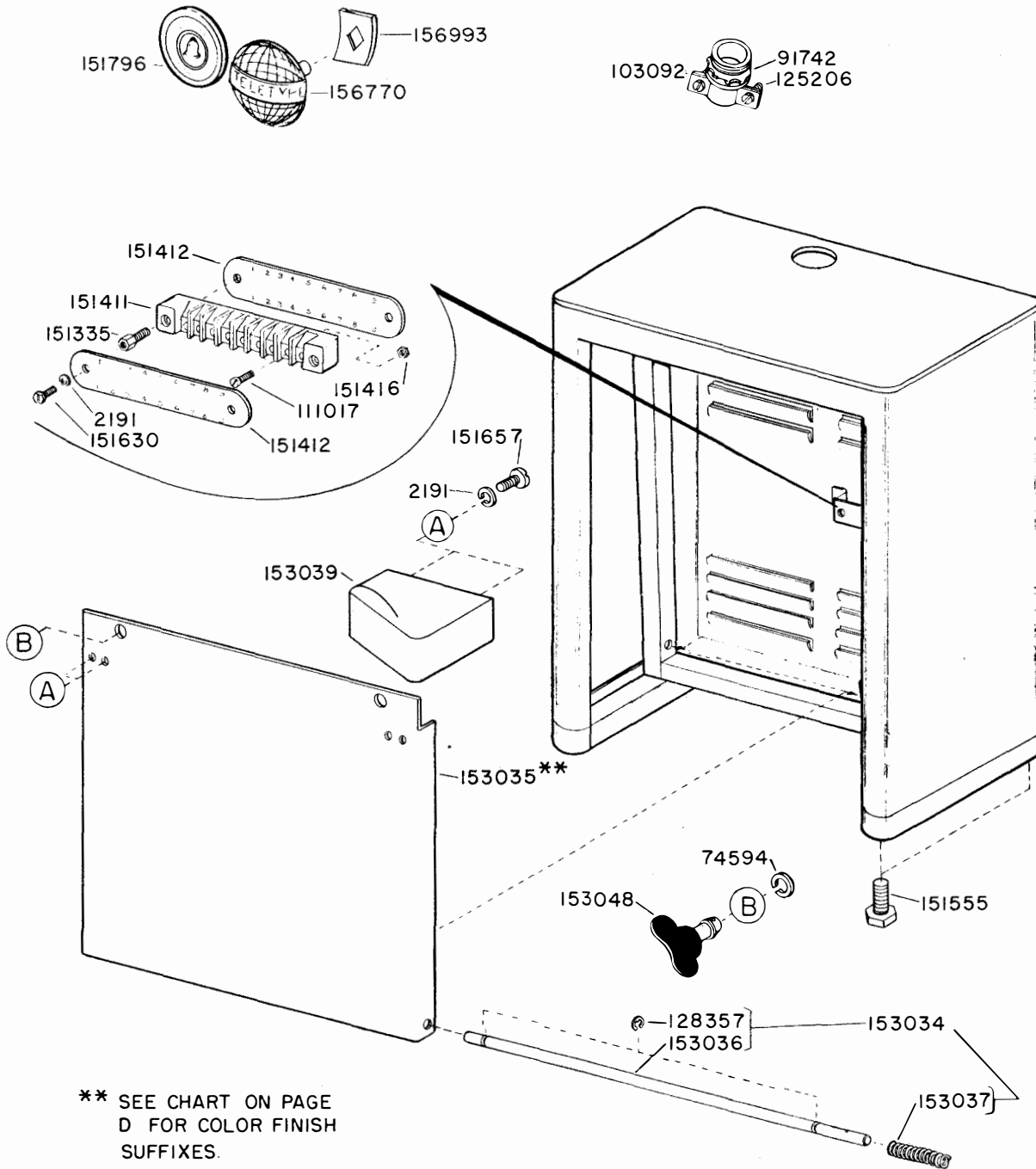


FIGURE 4-2. REPERFORATOR TABLE (LT)

NUMERICAL INDEX - FIGURE 4-2

Part Number	Description
2191	Washer, Lock
74594	Ring, Retaining
91742	Nut
103092	Connector, Cord
111017	Screw (6-40 x 5/16 Rd.)
125206	Screw (6-32 x 5/8 Fil.)
128357	Ring, Retaining
151335	Stud, Terminal Block
151411	Block, Terminal
151412	Insulator, Terminal Block
151416	Nut (6-40 Hex.)
151555	Foot, Mounting
151630	Screw (6-40 x 1/4 Hex.)
151657	Screw (6-40 x 1/4 Fil.)
151796	Plate, Identification (Bell)
153034	Shaft Assembly, Panel
153035**	Panel, Table
153036	Shaft, Panel
153037	Spring, Shaft
153039	Handle, Table
153048	Stud, Oval Wing
156770	Plate, Identification (Teletype)
156993	Nut, Speed



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SECTION 5

ELECTRICAL SERVICE UNIT

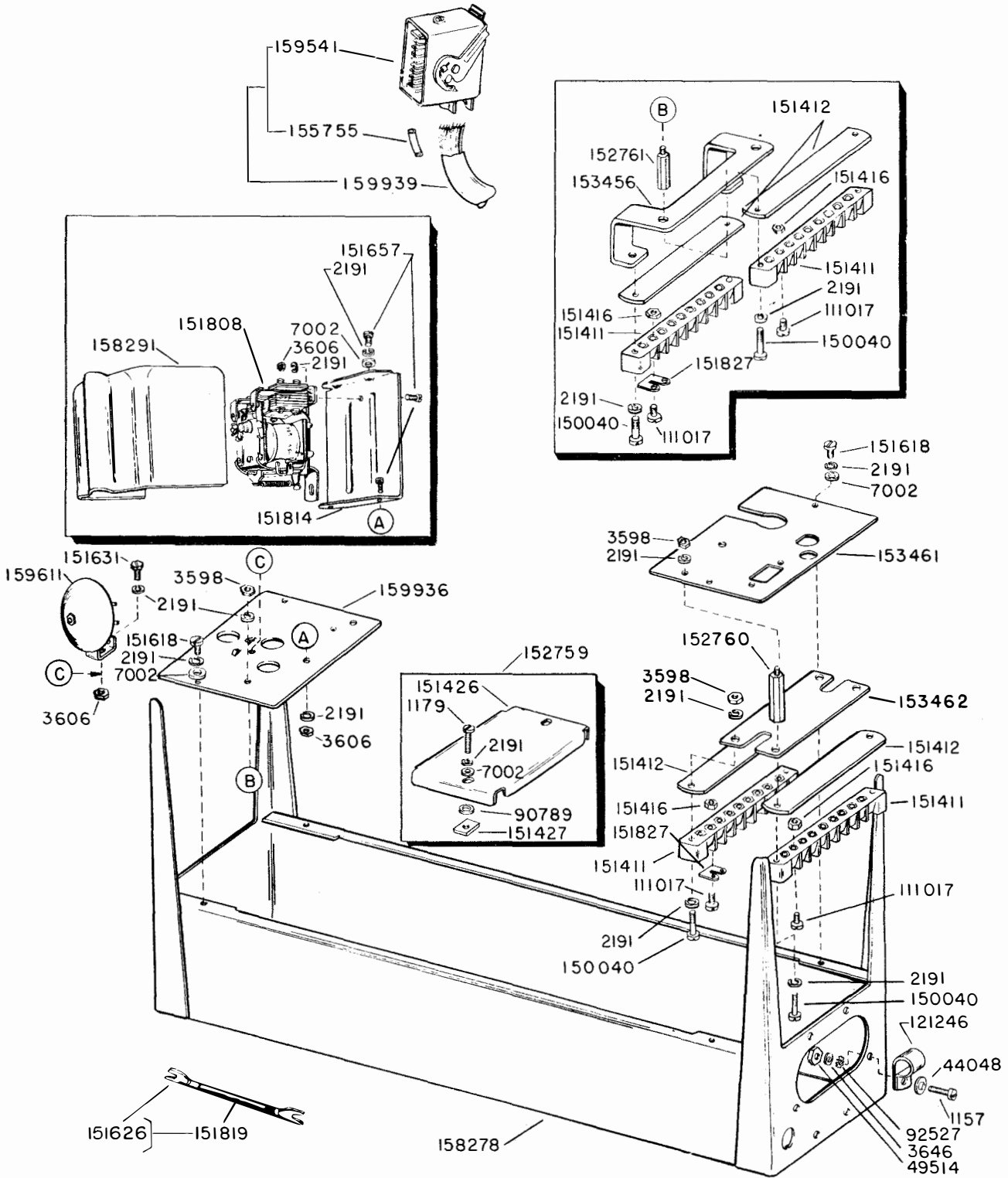


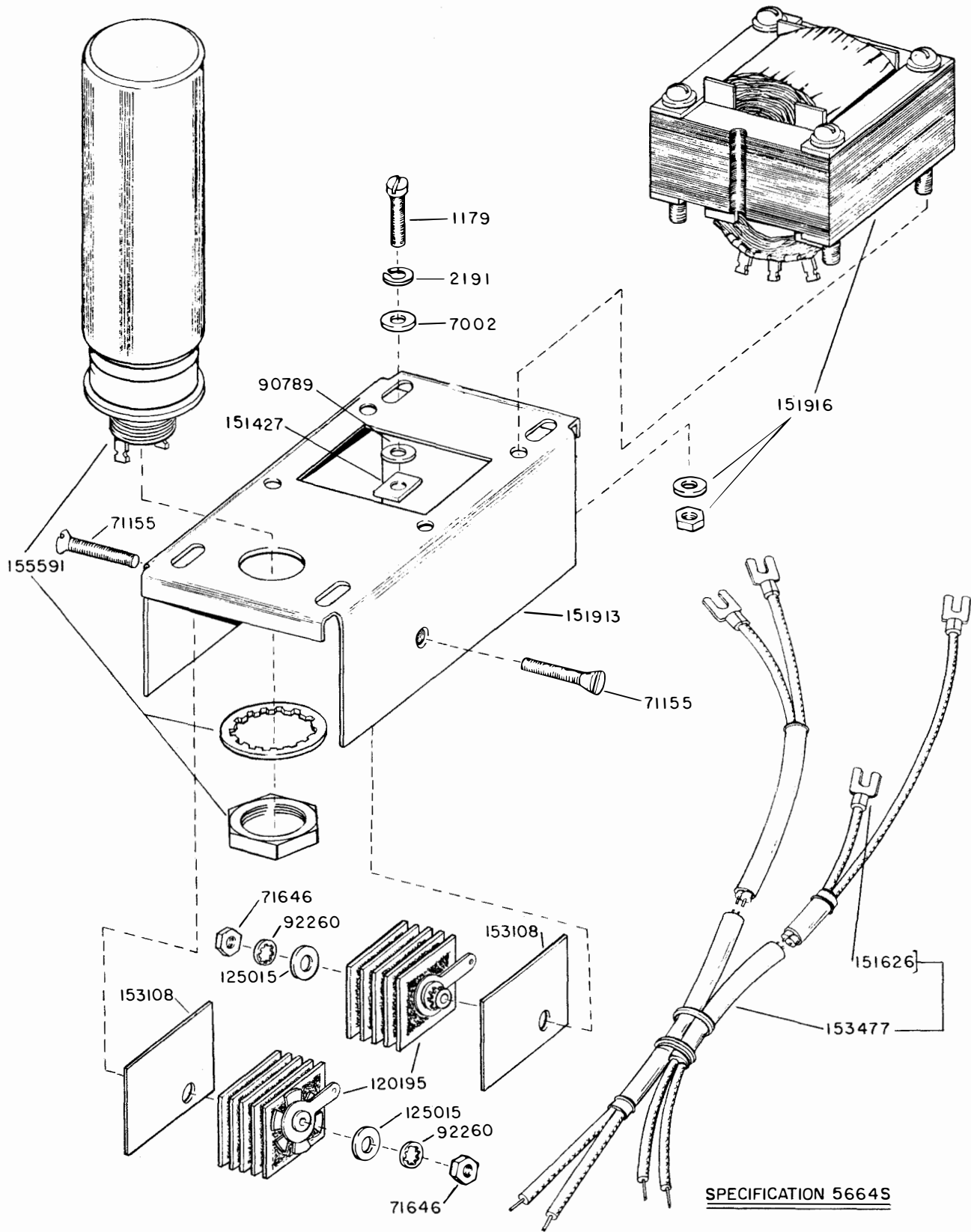
FIGURE 5-1. ELECTRICAL SERVICE UNIT (LESU)

NUMERICAL INDEX - FIGURE 5-1

Part Number	Description
1157	Screw (8-32 x 1/2 Fil.)
1179	Screw (6-40 x 5/8 Fil.)
2191	Washer, Lock
3598	Nut (6-40 Hex.)
3606	Nut (6-40 Hex.)
3646	Washer, Lock
7002	Washer, Flat
44048	Washer, Flat
49514	Nut (8-32 Hex.)
90789	Washer, Flat
92527	Washer, Lock
111017	Screw (6-40 x 5/16 Fil.)
121246	Clamp, Cable
150040	Screw (6-40 x 5/8 Fil.)
151411	Block, Terminal
151412	Insulator, Terminal Block
151416	Nut (6-40)
151426	Plate, Blank
151427	Plate, Clamp
151618	Screw (6-40 x 7/16 Fil.)
151626	Terminal
151631	Screw (6-40 x 5/16 HEX)
151657	Screw (6-40 x 1/4 Fil.)
151808	Relay, Line Shunt
151814	Bracket, Relay Mounting
151819	Jumper
151827	Strap, Terminal
152759	Plate Assembly
152760	Stud, Mounting Plate
152761	Stud, Mounting Plate
153456	Bracket, Terminal Block Mounting
153461	Plate, Right Mounting
153462	Plate, Terminal Block
155755	Sleeve, Insulating
158278	Container, Electrical Service Unit
158291	Cover, Relay
159541	Connector, Plug (16 Pt.)
159611	Bell Assembly
159936	Plate, Left Mounting
159939	Cable Assembly, Control (w/82474 Terminals)

NUMERICAL INDEX - FIGURE 5-2

Part Number	Description
1028	Screw (4-40 x 7/32 Fil)
1038	Screw (6-40 x 9/32 Fil)
1179	Screw (6-40 x 5/8 Fil)
1248	Screw (6-40 x 7/16 Flat)
2191	Washer, Lock
3598	Nut (6-40)
6827	Block, Connecting
7002	Washer, Flat
8543	Screw (6-40 x 1/4 Fil)
74614	Resistor (2600 Ohm)
74821	Resistor (2810 Ohm)
75750	Washer, Fiber
77902	Screw (6-40 x 2-1/2 Rd)
82516	Spring, Relay Retaining
89548	Spring, Contact
90789	Washer, Flat
125015	Washer, Flat
138191	Screw (3-48)
151427	Plate, Clamp
151626	Terminal
151819	Jumper
152109	Filter, Noise Suppressor
152110	Bracket, Resistor Mounting
152124	Spacer, Connecting Block
153464	Block, Terminal
153475	Cable, Line Relay
153480	Resistor (6750 Ohm)
153481	Resistor (5800 Ohm)
153482	Plate, Relay



SPECIFICATION 56645

FIGURE 5-3. 152950 RECTIFIER ASSEMBLY

NUMERICAL INDEX - FIGURE 5-3

Part Number	Description
1179	Screw (6-40 x 5/8 Fil)
2191	Washer, Lock
7002	Washer, Flat
71155	Screw (6-32 x 1-3/16 Flat)
71646	Nut (6-32)
90789	Washer, Flat
92260	Washer, Lock
120195	Rectifier, Metallic (Selenium)
125015	Washer, Flat
151427	Plate, Clamp
151626	Terminal
151913	Plate, Rectifier Mounting
151916	Transformer
153108	Insulator, Rectifier
153477	Cable Assembly, Rectifier
155591	Capacitor



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SECTION 6

MASTER NUMERICAL INDEX

ORIGINAL

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
224M	Magnet Assembly 2-54	70072	Washer, Flat 2-56	96717	Screw, Shoulder (4-40) 2-26, 2-34
252M	Coil, Magnet 2-40	70314	Washer, Flat 1-12	97266	Plate 2-58
254M	Coil, Magnet 2-28	70878	Spring 2-54	98004	Screw (2-56 x 0.685 Fil) 2-40
1028	Screw (4-40 x 7/32 Fil) 5-4	70885	Washer, Spring 1-14	98117	Washer, Spring 2-36
1033	Screw (6-40 x 5/16 Hex) 2-8	71073	Washer, Flat 2-46	98659	Bracket 1-2
1038	Screw (6-40 x 9/32 Fil) 5-4	71155	Screw (6-32 x 1-3/16 Flat) 5-6	99381	Foot 1-8
1156	Screw (2-56 x 9/16 Fil) 2-42	71437	Washer, Flat 2-12	100994	Nut (2-56 Hex) 2-40
1157	Screw (8-32 x 1/2 Fil) 5-2	71646	Nut (6-32 Hex) 5-6	101123	Washer, Felt 2-18
1160	Screw (6-40 x 5/16 Fil) 1-8	71681	Spool 2-32	101892	Dowel 2-8
1166	Screw (2-56 x 9/16 Fil) 2-46	71999	Spring 3-2	102028	Post 2-38
1179	Screw (6-40 x 5/8 Fil) 3-2, 5-2, 5-4, 5-6	73008	Washer, Flat 2-58	103092	Connector 4-4
1248	Screw (6-40 x 7/16 Flat) 5-4	73175	Washer, Lock 2-36	104124	Screw (1/4-32 x 11/32 Hex) 1-4, 1-8
2034	Washer, Flat 2-2, 2-26, 2-54	74059	Screw (6-40 x 7/32 Hex) 2-58	107393	Switch 1-2
2191	Washer, Lock Used Extensively	74283	Washer, Spring 2-24	107398	Terminal 1-2, 2-56
2199	Nut (7/16-32 Hex) 2-16	74553	Wick 2-16	109356	Washer, Flat 2-58
2263	Nut (8-32 Hex) 3-2	74594	Ring, Retaining 4-4	109757	Washer, Felt 2-22
2422	Washer, Lock 2-42	74614	Resistor 5-4	110434	Screw (4-40 x 3/16 Hex) 2-24, 2-26
2438	Washer, Flat 2-28	74727	Terminal 2-42	110435	Nut (4-40 Hex) 2-58
2449	Washer, Lock 1-4, 1-8	74728	Terminal 2-40	110437	Spring 2-22, 2-36
2481	Washer, Flat 2-42	74807	Nut (10-32 Hex) 1-14	110743	Washer, Lock Used Extensively
2539	Nut (3/8-32 Hex) 2-36	74821	Resistor 5-4	110879	Spring 2-14, 2-20, 2-34, 2-52
2669	Washer, Lock 1-2, 1-4, 1-8, 1-10, 1-14, 2-4, 2-24	74953	Screw (4-40 x 3/16 Fil) 2-58	111017	Screw (6-40 x 5/16 Fil) 1-2, 1-8, 2-4, 2-34, 4-4, 5-2
3438	Washer, Flat 1-4, 1-8, 1-10	75607	Shim 2-34	111410	Washer, Flat 2-2
3598	Nut (6-40 Hex) Used Extensively	75750	Washer, Fiber 5-4	111545	Filler 1-6
3599	Nut (6-40 Hex) 2-2, 2-8, 2-14, 2-18, 2-20, 2-26, 2-28, 2-30, 2-34	76081	Washer, Flat 1-14	111767	Washer, Flat 2-38
3603	Nut (1/4-32 Hex) 2-50	76099	Washer, Flat 4-2	111777	Connector 2-44
3606	Nut (6-40 Hex) 2-4, 2-34, 5-2	76800	Spring 2-2	112091	Post 2-38
3624	Washer, Flat 1-6, 2-40	77351	Washer, Lock 2-16	112626	Nut (10-32 Hex) 1-2, 2-16, 2-24
3640	Washer, Lock Used Extensively	77902	Screw (6-40 x 2-1/2 Rd) 5-4	112634	Spring 2-22
3642	Washer, Flat 1-14	78533	Spring 2-26	112636	Spring 2-38
3646	Washer, Lock 1-8, 2-48, 5-2	78824	Spring 2-54	112967	Washer, Flat 2-50
3649	Washer, Flat 2-4	78875	Spring 2-54	113850	Washer, Flat 1-14
3650	Washer, Flat 2-54	80755	Bushing 2-40, 2-42	114125	Screw (6-40 x 3/8 Hex) 1-14
3870	Spring 2-34	81726	Terminal 2-58	114466	Connector 1-3, 1-9
5363	Spring 2-10	81778	Screw (4-40 x 1/4 Fil) 2-28	114467	Connector 1-2, 1-8
5425	Shim 2-38	82392	Shim 2-4	115122	Washer, Felt 2-16
6345	Nut (6-32 Hex) 4-2	82474	Terminal 1-2, 1-8, 2-44	115134	Washer, Felt 2-18
6565	Screw (8-32 x 1-1/4 Fil) 1-8	82516	Spring 5-4	116783	Holder 1-8
6745	Screw (10-32 x 1/2 Hex) 1-12	82547	Insulator 2-40	117087	Screw, Shoulder (6-40) 2-18
6811	Screw (6-40 x 5/8 Hex) 2-36, 2-48	82548	Insulator 2-40, 2-42, 2-58	117535	Washer, Flat 1-12
6827	Block, Connecting 5-4	82725	Spring 1-14	119467	Insulator 1-6, 2-40
7002	Washer, Flat Used Extensively	82787	Spring 2-4	119647	Ring, Retaining 2-10, 2-38
8330	Washer, Flat 2-2, 2-4, 2-8, 2-12, 2-20, 2-24, 2-34, 2-36, 2-48	82860	Spring 2-32	119648	Ring, Retaining 2-8, 2-10, 2-24, 2-52, 2-54
8449	Washer, Flat 1-6	83877	Spring 1-6	119649	Ring, Retaining 2-6, 2-10, 2-16, 2-18, 2-22, 2-32, 2-34, 2-38, 2-40, 2-42, 2-54
8543	Screw (6-40 x 1/4 Fil) 5-4	84575	Spring 2-2	119650	Ring, Retaining 2-12, 2-32
12541WU	Handle 1-4	86079	Washer, Felt 2-6, 2-18	119651	Ring, Retaining 1-14, 2-2, 2-16, 2-20, 2-22, 2-34, 2-38, 2-40, 2-52, 2-54
22746	Spring 2-16, 2-36	86506	Post 2-2	119652	Ring, Retaining 2-2, 2-10, 2-12, 2-24, 2-38, 4-2
31636	Spring 2-38	86506	Post 2-2	119653	Ring, Retaining 1-14, 2-16, 2-32, 2-36, 2-38, 2-48
33765	Washer, Flat 2-42, 2-52, 2-56	86774	Screw, Shoulder (6-40) 2-48	119654	Ring, Retaining 1-12
33828	Spring 2-34	87334	Washer, Insulating 3-2	119655	Ring, Retaining 1-12
41382	Spring 2-10, 2-24	87401	Spring 2-2	119656	Ring, Retaining 2-36
41543	Bearing 2-50	88857	Washer, Spring 4-2	120175	Plate 1-2, 1-8
41732	Washer 2-40, 2-42, 2-58	89548	Spring 5-4	120195	Rectifier 5-6
42823	Washer, Flat 2-2, 2-6, 2-38	90052	Screw (4-40 x 5/8 Hex) 2-30	121100	Spring 2-22, 2-46
43824	Screw (3-48 x 3/16 Hex) 2-56	90361	Washer, Felt 2-12, 2-38	121244	Clamp, Cable 1-4
44048	Washer, Flat 5-2	90535	Disk 2-20, 2-22	121125	Washer, Spring 2-40
45024	Spring 2-32, 2-48	90560	Washer, Flat 2-2, 2-52	121242	Clamp, Cable 1-8, 2-26
45815	Washer, Lock 1-12	90599	Shim 2-18	121243	Clamp, Cable 1-6, 2-56
45963	Spring 2-38	90606	Spring 1-6, 2-2		
49084	Spring 2-2, 2-42	90615	Spring 2-34		
49514	Nut (8-32 Hex) 5-2	90789	Washer, Flat 5-2, 5-4, 5-6		
55063	Spring 2-8, 2-52	91120	Spring 2-10		
55090	Spring 2-38	91139	Roller 2-6		
		91742	Nut, Lock 4-4		
		92260	Washer, Lock 2-34, 5-6		
		92527	Washer, Lock 5-2		
		93108	Washer, Lock 2-50		
		93117	Washer, Lock 1-6, 2-10, 2-46		
		93118	Washer, Lock 2-40		
		93356	Washer, Felt 2-2, 2-10		
		93984	Washer, Lock 2-2		

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
121245	Clamp, Cable 2-26	150990	Washer, Felt 2-14	151728	Spring 2-2, 2-6
121246	Clamp, Cable 2-26, 5-2	151073	Screw (4-40 x 5/32 Fil) 2-12, 2-52	151732	Screw (6-40 x 11/32 Fil) 1-14
121538	Terminal 2-28			151733	Screw (4-40 x 9/16 Fil) 2-40
121551	Screw (8-32 x 1/4 Hex) 2-48	151103	Spring 2-2, 2-26	151736	Spring 2-50
121575	Screw (10-32 x 5/16 Hex) 1-2, 1-8	151152	Screw (4-40 x 3/16 Hex) 2-2, 2-4, 2-8, 2-18, 2-22, 2-30, 2-34, 2-38, 2-40, 2-42	151737	Screw (4-40 x 11/64 Hex) 2-2, 2-6, 2-12, 2-38, 2-40, 2-42, 2-50, 2-54
122149	Screw (4-40 x 5/8 Hex) 2-52			151795	Motor 3-2
122201	Bearing 3-2	151222	Washer, Felt 2-12	151796	Plate 4-2, 4-4
122211	Washer, Pull 3-2	151246	Washer, Lock 2-4	151808	Relay 5-2
122220	Oiler 3-2	151335	Stud 1-2, 1-8, 4-4	151814	Bracket 5-2
122229	Bolt (8-32) 3-2	151346	Screw (6-40 x 3/8 Fil) 1-10, 1-12, 2-6, 2-36, 3-2	151819	Jumper 5-2, 5-4
122245	Capacitor 3-2			151827	Strap 1-8, 5-2
122249	Switch 3-2	151398	Spring 2-22	151848	Lock 2-38
122251	Stator 3-2	151411	Block 1-2, 1-8, 4-4, 5-2	151880	Nut (4-40 Hex) 1-14, 2-38, 2-54
122252	Shield Assembly 3-2	151412	Insulator 1-2, 1-8, 4-4, 5-2		
123706	Screw (10-32 x 1/4 Flat) 1-4	151415	Block 1-2	151913	Plate 5-6
123769	Fan 3-2	151416	Nut (6-40 Hex) 1-2, 1-8, 2-10, 2-12, 4-4, 5-2	151916	Transformer 5-6
124177	Washer, Lock 1-14, 2-4, 2-6, 2-24, 2-36	151426	Plate 5-2	151920	Plate 3-2
124396	Switch Assembly 1-8	151427	Plate 5-2, 5-4, 5-6	151922	Clamp 3-2
124999	Switch 1-6	151442	Screw (6-40 x 1/2 Hex) 2-2, 2-4, 2-16, 2-18, 2-26, 2-28, 2-54	151923	Relay 3-2
125001	Screw, Shoulder (4-40) 2-58			151924	Insulator 3-2
125011	Washer, Flat Used Extensively	151555	Foot 4-4	151925	Clamp 3-2
125015	Washer, Flat 1-6, 2-4, 2-12, 2-14, 2-28, 2-34, 5-4, 5-6	151558	Nut, Speed 4-2	151926	Nut (4-40) 3-2
		151562	Lamp 1-8	151927	Cable 3-2
125132	Screw (2-56 x 5/32 Fil) 2-10	151603	Spacer 2-28	152109	Filter 5-4
125138	Screw (4-40 x 11/64 Hex) 2-8	151606	Screw (10-32 x 1/4 Hex) 1-8	152110	Bracket 5-4
125205	Screw (6-40 x 7/16 Fil) 1-12	151610	Washer, Flat 1-6, 1-12	152124	Spacer 5-4
125206	Screw (6-32 x 5/8 Fil) 4-4	151618	Screw (6-40 x 7/16 Fil) 5-2	152129	Spring 2-52
125212	Screw, Shoulder (6-40) 2-34	151620	Strap 3-2	152297	Washer, Flat 3-2
125215	Screw (4-40 x 3/16 Hex) 2-54	151621	Screw (6-32 x 3/4 Rd) 3-2	152400	Plate 2-26
125224	Nut (1/4-32 Hex) 1-4, 1-8	151622	Nut (6-32 Sq) 3-2	152401	Guide 2-26
125231	Nut (10-32 Hex) 2-4	151626	Terminal 1-6, 1-8, 2-44, 2-46, 2-48, 2-56, 3-2, 5-2, 5-4, 5-6	152402	Guide 2-26
125252	Spring 2-32			152403	Bracket 2-26
125268	Spring 2-36, 2-40	151629	Nut (6-40 Special) 2-2, 2-12, 2-16, 2-36, 2-48	152404	Bracket 2-26
125421	Dowel 2-8			152405	Lever 2-26
128357	Ring, Retaining 2-12, 2-22, 4-4	151630	Screw (6-40 x 1/4 Hex) Used Extensively	152406	Bracket 2-26
128874	Rotor 3-2			152407	Lever 2-26
129919	Fuse 1-8	151631	Screw (6-40 x 5/16 Hex) Used Extensively	152409	Lever 2-26
130330	Washer, Felt 2-18			152410	Bail 2-26
130499	Bearing 1-14	151632	Screw (6-40 x 3/8 Hex) 1-12, 2-4, 2-8, 2-26, 2-30, 2-32, 2-40, 2-42	152411	Lever 2-26
130696	Washer, Felt 2-20			152412	Link 2-26
130729	Screw (2-56 x .180 Fil) 2-8	151633	Bearing 1-12, 2-4	152415	Stud 2-28, 2-50
131016	Washer, Felt 2-18	151637	Screw (4-40 x 1/4 Fil) 1-2, 1-8, 2-8, 2-32, 3-2	152420	Lamination 2-28
131099	Terminal 2-28			152421	Bracket 2-28
135901	Washer, Cup 2-16	151640	Lever 2-2	152423	Bracket 2-28
138191	Screw (3-48 x 1 Rd) 5-4	151657	Screw (6-40 x 1/4 Fil) 2-4, 2-24, 4-4, 5-2	152424	Plate 2-28
139697	Screw (4-40 x 9/32 Fil) 2-50			152425	Post 2-28
139752	Screw (4-40 x 11/64 Fil) 2-2	151658	Screw (6-40 x 5/16 Fil) 2-2	152426	Nut 2-28, 4-2
150000	Drum 2-6	151659	Screw (6-40 x 1/2 Fil) 2-50	152427	Lever 2-24
150001	Drum 2-2	151686	Screw (4-40 x 3/8 Fil) 2-28, 3-2	152429	Rack 2-24
150013	Disk 2-2, 2-6	151688	Screw (4-40 x 5/8 Fil) 2-28, 2-42	152432	Arm 2-24
150026	Lever 2-6			152436	Knob 2-24
150029	Wick 2-2, 2-6	151690	Screw (10-32 x 29/64 Fil) 2-4	152438	Bail 2-24
150040	Screw (6-40 x 5/8 Fil) 2-6, 5-2	151692	Screw (6-40 x 3/16 Fil) 2-14, 2-34, 3-2	152441	Washer, Flat 2-24
150043	Shoe 2-2, 2-6			152445	Spring 2-24
150044	Shoe 2-2, 2-6	151693	Screw (6-40 x 9/16 Fil) 2-2	152457	Wick 2-26
150048	Spring 2-2, 2-26	151694	Screw (6-40 x 11/32 Fil) 1-10	152458	Shield 2-28
150089	Screw (4-40 x 1/2 Fil) 1-10, 1-14, 2-28	151700	Screw, Shoulder (6-40) 2-20	152494	Wick 2-2
		151701	Spring 2-26	152623	Mounting Assembly 5-4
150241	Spring 2-2, 2-6	151714	Spring 2-26	152634	Washer, Flat 2-12
150327	Roller 2-32	151715	Spring 2-28	152759	Plate Assembly 5-2
150355	Lever 2-2	151721	Screw (6-40 x 3/4 Hex) 1-6, 2-54	152760	Stud 5-2
150356	Lever 2-2			152761	Stud 5-2
150456	Washer, Flat 1-14	151722	Screw (6-40 x 3/16 Hex) 1-2, 1-8, 2-8, 2-48, 2-54, 4-2	152887	Screw (4-40 x 1/2 Hex) 2-30
150507	Spring 2-32, 2-38			152891	Spring 2-26
150687	Post 2-26	151723	Screw (10-32 x 3/8 Hex) 1-4	152892	Screw (4-40 x 3/16 Hex) 2-26
150923	Washer, Felt 2-12			152893	Screw (4-40 x 1/4 Hex) 2-6, 2-8, 2-10, 2-12, 2-16, 2-36, 2-40, 2-42, 2-46, 2-54
150966	Insulator 1-2				
150976	Bracket 3-2				

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152950	Rectifier and Cable Assembly 5-6	156046	Block 2-8	156264	Lever 2-14, 2-20
153030	Mount 3-2	156047	Spring 2-10	156265	Bushing 2-20
153034	Shaft Assembly 4-4	156050	Stud 2-10	156266	Bushing 2-14, 2-20
153035**	Panel 4-4	156051	Bushing 2-12	156267	Lever 2-50
153036	Shaft 4-4	156052	Shoe 2-10	156268	Bracket 2-22
153037	Spring 4-4	156054	Lever 2-10	156276	Shaft 2-14
153039	Handle 4-4	156055	Wheel 2-10	156277	Shaft 2-14
153048	Stud 4-4	156057	Washer, Flat 2-22	156278	Shaft 2-20
153049	Washer, Fiber 3-2	156058	Link 2-12	156286	Shaft 2-14
153108	Insulator 5-6	156059	Bail 2-12	156287	Shaft 2-14
153184	Post 2-28	156060	Shaft 2-12	156288	Shaft 2-20
153267	Washer, Felt 2-8	156061	Arm 2-10	156289	Bearing 2-14
153442	Screw (10-32 x 1/2 Hex) 1-2	156062	Pivot 2-10	156290	Bearing 2-14
153456	Bracket 5-2	156067	Guide 2-12	156291	Bearing 2-14
153461	Plate 5-2	156069	Plate 2-8	156292	Housing 2-20
153462	Plate 5-2	156070	Bail Assembly 2-12	156293	Housing 2-20
153464	Block 5-4	156077	Plate 2-12	156294	Sector 2-18
153475	Cable 5-4	156078	Contact Assembly 2-42	156296	Post 2-22
153477	Cable Assembly 5-6	156089	Slide 2-8	156300	Shaft 2-22
153480	Resistor 5-4	156090	Screw, Adjusting 2-10	156306	Rod 2-16
153481	Resistor 5-4	156093	Washer, Felt 2-12	156311	Rod 2-16
153482	Plate 5-4	156094	Link 2-12	156313	Rack 2-20
153489	Detent 2-24	156095	Bushing 2-12	156316	Plate 2-22
153534	Washer, Flat 1-14	156099	Link 2-12	156318	Lever 2-2
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