



BULLETIN 1168B

PARTS

MODEL 28

REPERFORATOR TRANSMITTER SET (RT)



TELETYPE[®]
CORPORATION

5555 TOUHY AVENUE, SKOKIE, ILLINOIS

© 1958 and 1961 by Teletype Corporation in the United States. Copyright in all countries participating in the International Convention and Pan American Conventions. All rights reserved including rights of translation into all languages.

Printed in U.S.A.



LIST OF EFFECTIVE PAGES

AUGUST, 1964

(Supersedes June, 1963 Issue)

Page Number	Change In Effect
A to E	Change 5
F	Change 4
G	Change 3
1-1 to 1-6	Change 3
1-7	Change 4
1-8 to 1-9	Change 3
1-10 to 1-11	Change 5
1-12	Change 3
1-13	Change 5
1-14	Change 4
1-15 to 1-16	Change 5
1-17 to 1-18	Change 3
1-19 to 1-20	Change 5
1-21 to 1-22	Change 3
1-23	Change 5
1-24	Change 3
1-25 to 1-27	Change 5
1-28	Change 4
1-29 to 1-33	Change 5
2-1	Change 3
2-2 to 2-4	Change 5
2-5	Change 4
2-6 to 2-8	Change 3
2-9 to 2-12	Change 5
2-13	Change 3
2-14	Change 5
2-15 to 2-17	Change 3
2-18 to 2-20	Change 5
2-21 to 2-22	Change 4
2-23 to 2-26	Change 5
3-1 to 3-10	Change 3
4-1	Change 3
4-2	Change 5
4-3 to 4-7	Change 3
4-8 to 4-11	Change 5
4-12 to 4-13	Change 3
4-14 to 4-16	Change 5
4-17 to 4-18	Change 3
4-19 to 4-21	Change 5
5-1 to 5-3	Change 3
6-1	Change 3
6-2 to 6-7	Change 5

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 Upon receipt of Change Pages, insert them numerically and discard any superseded pages.

TABLE OF CONTENTS

SECTION 1 - REPERFORATOR TRANSMITTER TAPE HANDLING STAND (LTHS)

Figure		Page	Figure		Page
1-1	Frame (View 1)	1-2	1-17	Frame and Electrical Component	1-18
1-2	Frame (View 2)	1-3	1-18	176176 Modification Kit to Provide Belt Drive for Low Speed Tape Handling	1-19
1-3	Tape Winder (View 1)	1-4	1-19	174472 Modification Kit to Provide AC Lighting for LTHS Stand	1-20
1-4	Tape Winder (View 2)	1-5	1-20	174569 Modification Kit to Provide End-of-Tape Contacts on Tape Handling Stands	1-21
1-5	Tape Winder (View 3)	1-6	1-21	174626** and 190328** Tape Storage Bin Assemblies (Without Motor)	1-22
1-6	160763**, 164598** and 179181** Tape Storage Bin Assemblies (With Motor)	1-7	1-22	174815 and 193230 Modification Kits to Provide supply 48V Power supply	1-23
1-7	159202** Tape Storage Bin Assembly (Without Motor)	1-8	1-23	177035 Modification Kit to Provide Tape Bin Low Alarm	1-24
1-8	159218 Latch Assembly	1-9	1-24	178234** Tape Storage Bin Assembly (With Motor)	1-25
1-9	159222 Tape Winder Reel Assembly and 159223 Tape Supply Reel Assembly (Low Speed)	1-10	1-25	Frame Mechanism	1-26
1-10	170835 Tape Winder Assembly (High Speed)	1-11	1-26	Frame Mechanism	1-27
1-11	Cover (Oil Shield)	1-12	1-27	190596 Tape Storage Bin Assembly	1-28
1-12	163706 Separator Assembly and 172681 Modification Kit to Provide Bin Full Alarm	1-13	1-28	190594 Tape Supply Reel Assembly	1-29
1-13	Frame (View 3)	1-14	1-29	190595 Tape Winder Reel Assembly	1-29
1-14	170800** and 173718** Tape Storage Bin Assemblies	1-15	1-30	Numerical Index - Section 1	1-30
1-15	Front Plate Mechanism (High Speed)	1-16			
1-16	Rear Plate Assembly	1-17			

SECTION 2 - REPERFORATOR TRANSMITTER BASE (LRXB)

2-1	Base	2-2	2-13	Base (AC205** Cabinet Application)	2-14
2-2	Variable Speed Gear Mechanisms	2-3	2-14	Intermediate Shaft and Gears	2-15
2-3	Fixed Speed Gear Mechanisms	2-4	2-15	Tape Container Bracket and Terminal Block	2-16
2-4	Interchangeable Cross Shaft Gear Sets	2-5	2-16	Tape Container Assembly	2-17
2-5	159104 Tape Winder Drive Bracket Assembly	2-6	2-17	Cable Chart	2-18
2-6	170806 Tape Winder Drive Bracket Assembly	2-7	2-18	Cable Chart (Continued)	2-19
2-7	Base (High Speed)	2-8	2-19	Covers	2-20
2-8	High Speed Tape Reader (CX) Mounting Parts	2-9	2-20	174558 Modification Kit to Provide Tape-Out Contacts Ahead of Reperforator Used on the H/L RT Set	2-21
2-9	High Speed Tape Punch (BRPE) Mounting Drive Parts	2-10	2-21	Base (DRPE Mounting)	2-22
2-10	Connector Plate Assembly	2-11	2-22	190540 Tape Winder Bracket Assembly	2-23
2-11	Tape Guide and Tape Out Assembly	2-12		Numerical Index - Section 2	2-24
2-12	123910 Tape Reel Container	2-13			

SECTION 3 - MOTOR UNIT (LMU)

3-1	LMU11 Synchronous Motor Unit	3-2	3-6	Series Motor Mounting Parts	3-7
3-2	LMU3 and LMU30 Synchronous Motor Units	3-3	3-7	LMU12 Synchronous Motor Unit	3-8
3-3	Series Motors	3-4	3-8	174546 Modification Kit to Provide Motor "Running" Contacts	3-9
3-4	150845 Governor Assembly	3-5		Numerical Index - Section 3	3-10
3-5	Series Motor Mounting Parts	3-6			

SECTION 4 - CABINET (LBAC)

4-1	Front Doors and Dome	4-2	4-11	Relay Unit and Frame	4-12
4-2	161999** Modification Kit to Provide End Enclosures	4-3	4-12	Cable Assemblies	4-13
4-3	Rear Doors and Latch Mechanism	4-4	4-13	Relay Plate and Components	4-14
4-4	Channel Assemblies	4-5	4-14	Panel and Components	4-15
4-5	Electrical Components	4-6	4-15	Mounting Rack Frame Assembly	4-16
4-6	Control Panel and Terminal Blocks	4-7	4-16	176139 Modification Kit to Add Ball Bearing Slides For Reperforator Transmitter Sets	4-17
4-7	Line Relay Mounting Components	4-8	4-17	173459 Electronic Keyer Plate Assembly	4-18
4-8	Relay Plate and Components	4-9	4-18	Front Doors and Dome	4-19
4-9	Control Plate and Components	4-10		Numerical Index - Section 4	4-20
4-10	Rectifier Mounting Parts and Control Plate Components	4-11			

SECTION 5 - NOTES OF EXPLANATION
CONVERSION AND MODIFICATION KITS

SECTION 6 - NUMERICAL INDEX

UNITS COVERED

MODEL 28 REPERFORATOR TRANSMITTER BASES					
Operating Speed					
Receiving (Input)			Transmitting (Output)		
Teletype Code	W.P.M.	Baud	W.P.M.	Baud	Unit Code
LRXB1	60-75-100		100*		7.42
LRXB2	100*		100*		7.42
LRXB3	100*		60-75-100		7.42
LRXB4	60-75-100		60-75-100		7.42
LRXB5	75		75		7.42
LRXB6		45.5-50-74.2		45.5-50-74.1	7.42 - 7.00
LRXB7	60		60		7.42
LRXB8	See Figure 2-4. For Interchangeable Gear Sets				
LRXB9			60-75-100		7.42
LRXB10	60		60		7.42
LRXB11	60-67-75		60-67-75		7.42
LRXB12	60-75-100		60-75-100		7.42
LRXB13		50		50	7.50
LRXB14	60-75-100		60-75-100		7.42
LRXB15		50		50-75	7.42 - 7.50
LRXB16		50		50-75	7.50
LRXB17		45.5 - 75		75	7.00
LRXB20			100	74.2	7.42
LRXB21	See Figure 2-4. For Interchangeable Gear Sets				
LRXB22	60-75-100		60-75-100		7.42
LRXB23			60-75-100		7.42
LRXB24	60-75-100		60-75-100		7.42
LRXB25	See Figure 2-4. For Interchangeable Gear Sets				
LRXB26			100	74.2	7.42
LRXB27		45.5-50-75		45.5-50-75	7.00
LRXB31	See Figure 2-4. For Interchangeable Gear Sets				
LRXB32	See Figure 2-4. For Interchangeable Gear Sets				

MODEL 28 TAPE HANDLING STANDS				
Teletype Code	Supply Reel (FT)	Max. Winding Speed (WPM)	Fully Perforated Winding Capacity (FT)	Chadless Winding Capacity (FT)
LTHS200**	3000	200		1000
LTHS201**	3000	200		1000
LTHS202**	3000	1000	3000	
LTHS204**	3000	200		1000
LTHS205**	3000	200	3000	
LTHS207**	3000	1000	3000	
LTHS209**	3000	1000	3000	
LTHS210**	3000	200		1000
LTHS211**	3000	200	3000	
LTHS212**	3000	2000	3000	
LTHS213**	3000	2000	3000	

MODEL 28 MOTOR UNITS	
Teletype Code	Motor Type
LMU3	Synchronous (115V)
LMU11	Synchronous (115V)
LMU12	Synchronous (115V)
LMU13	Governed (115V)
LMU23	Governed (48V)
LMU30	Synchronous (115V)

MODEL 28 UNIVERSAL CABINETS	
Teletype Code	
LBAC201**	LBAC228**
LBAC204**	LBAC236**
LBAC212**	LBAC237**
LBAC220**	LBAC238**
LBAC221**	LBAC239**

PAINT FINISH COLOR CODE CHART (For Parts and Assemblies Replacing a Paint Finish)				
Color	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Black	AA (37)	BB		
Dark Brown	AD (38)			
Gray Green	AB (40)	BK	GA (45)	
Charcoal Gray	AL	BZ		HA
Dark Gray			GB	
Light Gray		EJ		HB
Beige Gray			GC	
Light Beige		EL		HC
Moss Green		EN		HD
Eye Rest Green		EA		
Turquoise		EV		
Aqua Blue		EK		
Brussels Light Blue		EC		
Medium Blue		ES		
Cherry Red		EF		
Pastel Yellow		EG		
White		EH		
Ivory		EM		
Beige		ET		
Rose Beige		ER		
Rose Pink		EU		
Dark Covert Gray				HE
Light Olive Gray		EW		HF (46)
Fawn				HG

Numbers in Parenthesis () indicates Bell System Code.
Suffix to be applied following the part number.
Other colors available on request.

TELETYPE AND BELL SYSTEM CODE REFERENCE CHARTS

MODEL 28 REPERFORATOR TRANSMITTER SET COMPONENTS	
Description	Bell System Code
Reperforator Transmitter Unit	28A } 28A** 28B } 28B** 28C } 28C** 28D } 28D** 28E } 28E**
Reperforator Transmitter Stand	28A** } 28A** } 28A** } 28A** } 28A** }

MODEL 28 REPERFORATOR TRANSMITTER UNIT COMPONENTS	
Description	(Teletype to Bell System Codes)
Transmitter Distributor (Pivoted)	LAXD2 } LAXD2 } LAXD1 } LAXD1 } LAXD1 } LAXD1 } LAXD1 }
Reperforator (Typing)	LPR3*** } LPR25*** } LPR25*** } LPR25*** }
Reperforator (Non-Typing)	28A } LRPE2 } 28B } LRPE2 } 28C } 28D } 28E } 28F } LRPE11 } 28G
● Reperforator Transmitter Base	LRXB1 } LRXB2 } LRXB3 } LRXB12 } LRXB12 } LRXB14 } LRXB22 }
● Motor Unit	LMU11 } LMU11 } LMU11 } LMU11 } LMU13 } LMU12 } LMU11 }

***Indicates typewheel variation

END PANELS	
Bell System Code	Teletype Part No.
28A**	164091 (R) (Includes Hardware)
28B**	164092 (L) (Includes Hardware)

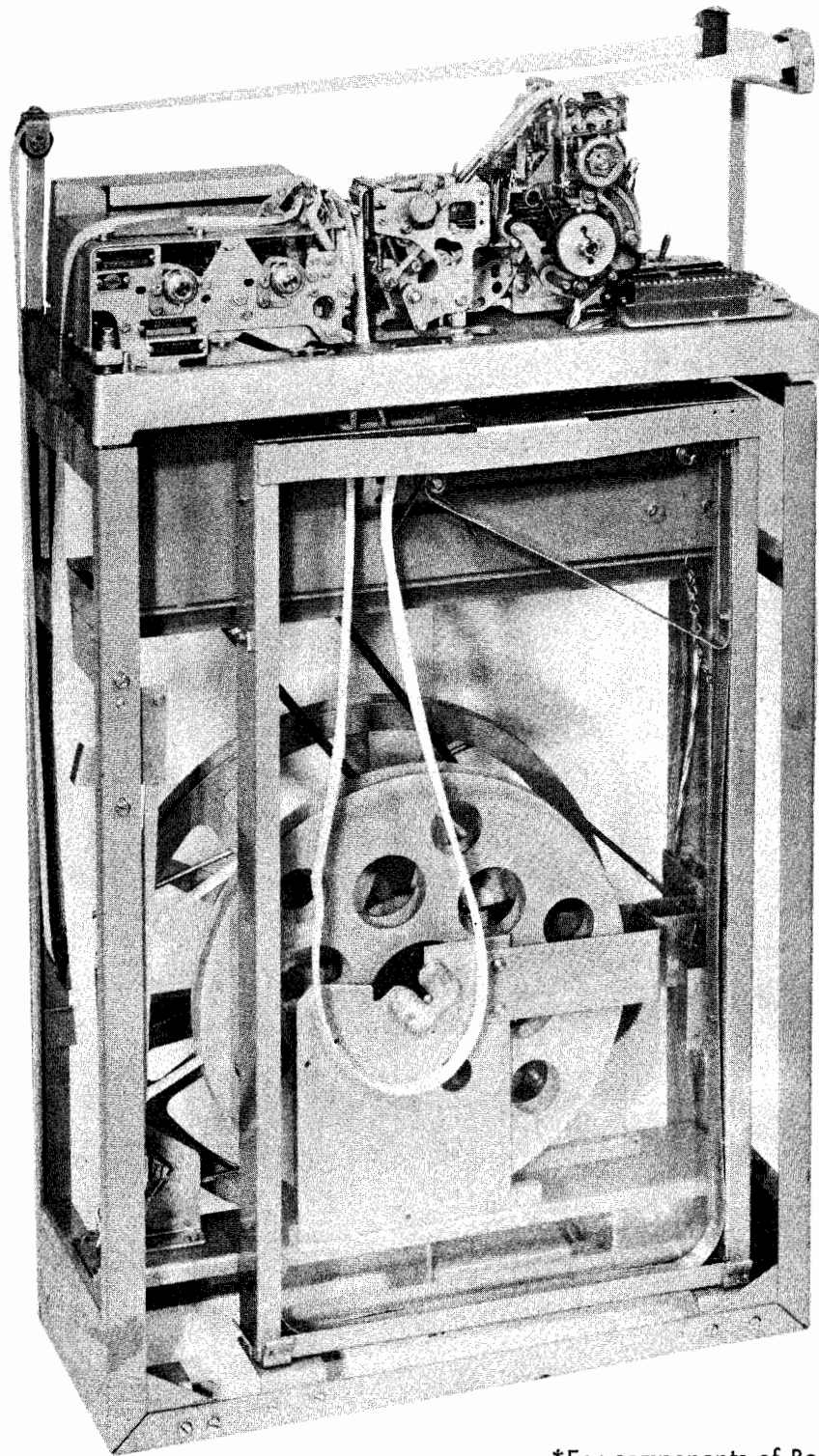
MODEL 28 REPERFORATOR TRANSMITTER STAND		
Description	Teletype Code	Bell System Code
● Tape Handling Stand	LTHS200** LTHS210**	28A**

MODEL 28 CABINETS		
Description	Teletype Code	Bell System Code
● RT	LBAC212** LBAC220**	28A** 28B**
● Tuning	LBAC221**	28A**

● Components of Model 28 Reperforator Transmitter Sets Covered in this bulletin. For other components, see Parts Bulletin 1170B (LAXD), 1167B (LPR) and 1172B (LRPE). For the Tape Splicer, see Parts Bulletins 1173B.

BELL SYSTEM ONLY

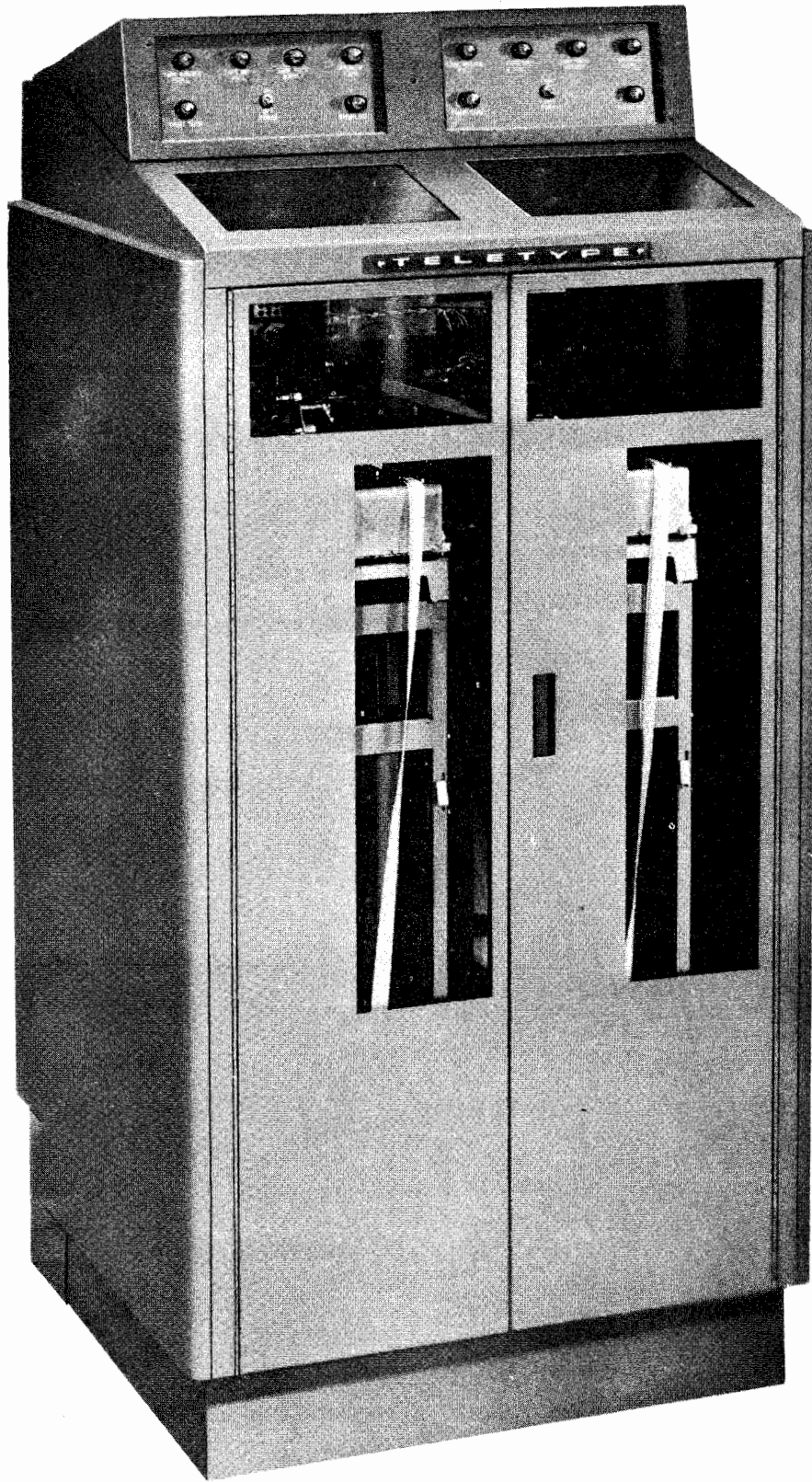
When ordering parts from this bulletin, prefix each number with the letters TP.



*For components of Bell System 28B**
Reperforator Transmitter Set illus-
trated, see page E.

MODEL 28 REPERFORATOR TRANSMITTER SET
(Bell System 28B** illustrated*)

1168B



MODEL 28 UNIVERSAL TYPE APPARATUS CABINET (LBAC)



SECTION 1

TAPE HANDLING STAND

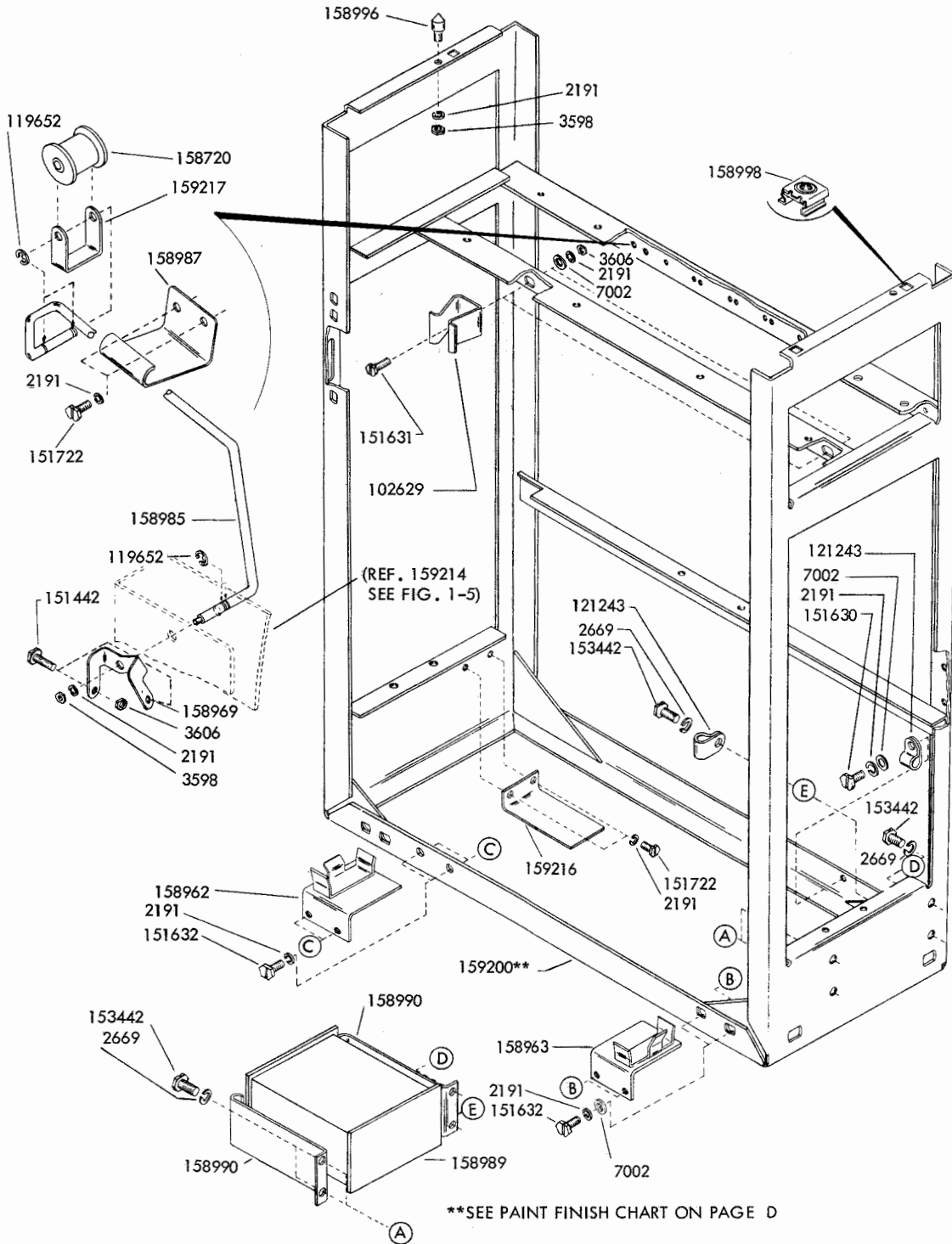


FIGURE 1-1. FRAME (VIEW 1)

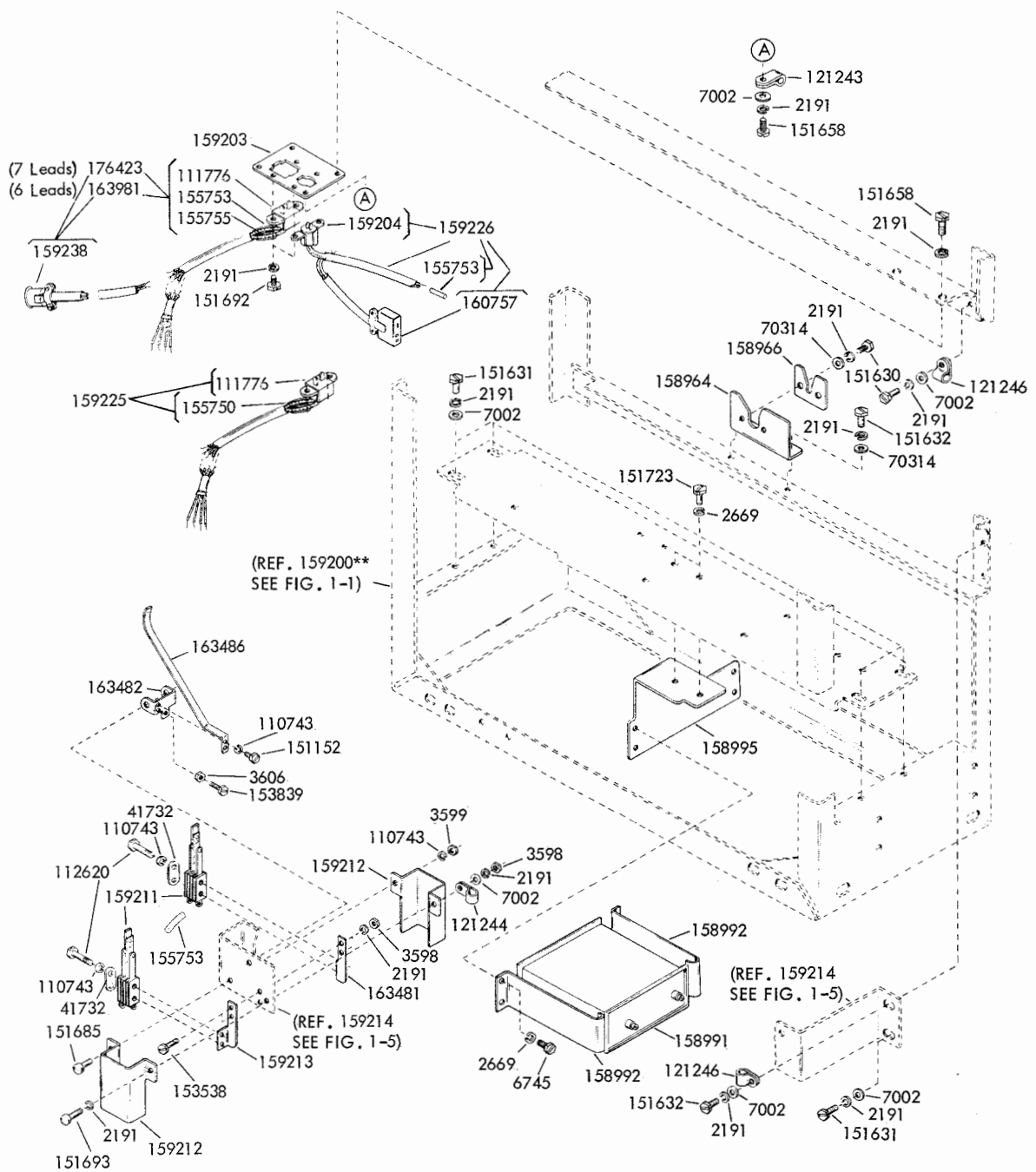


FIGURE 1-2. FRAME (VIEW 2)

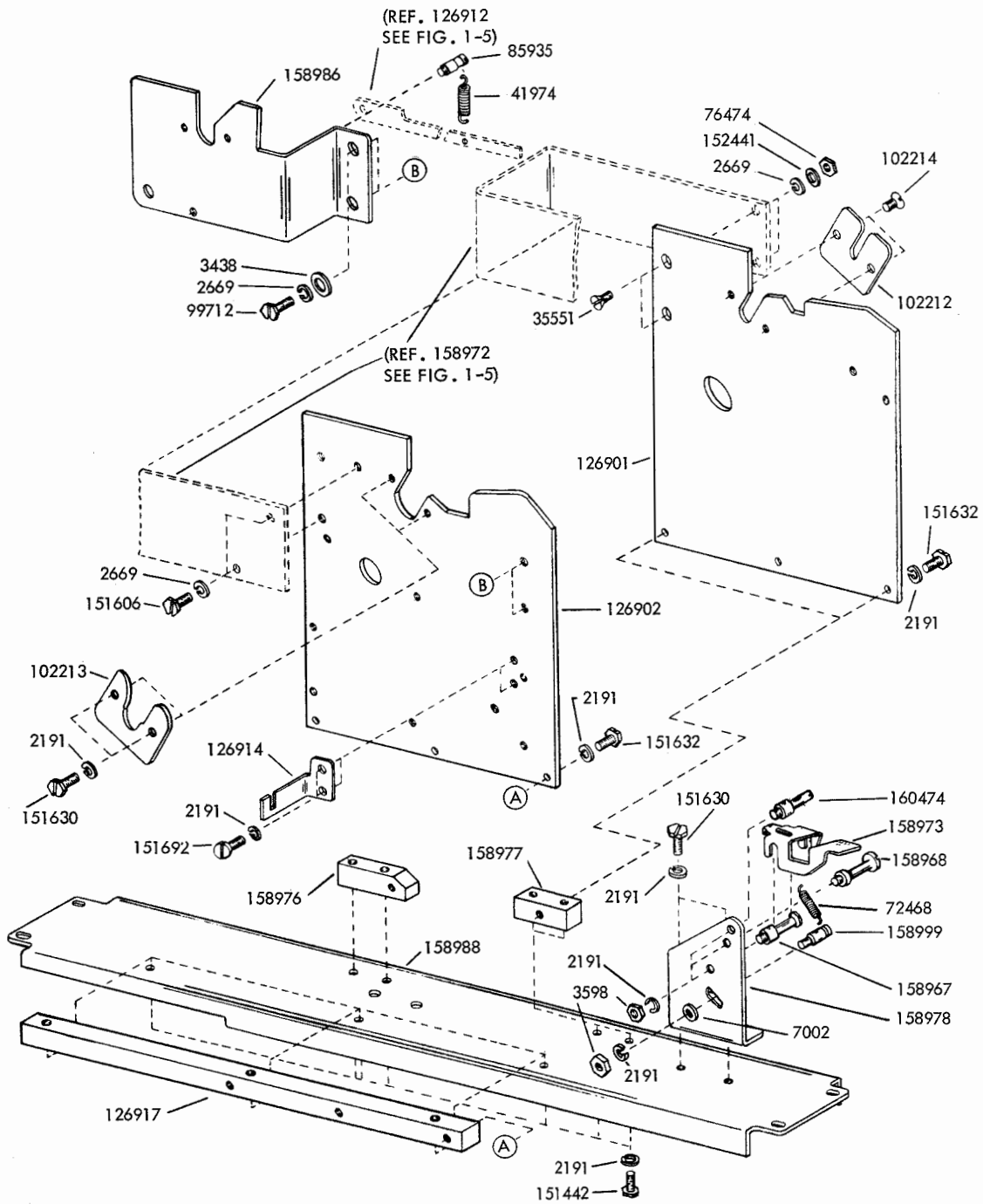
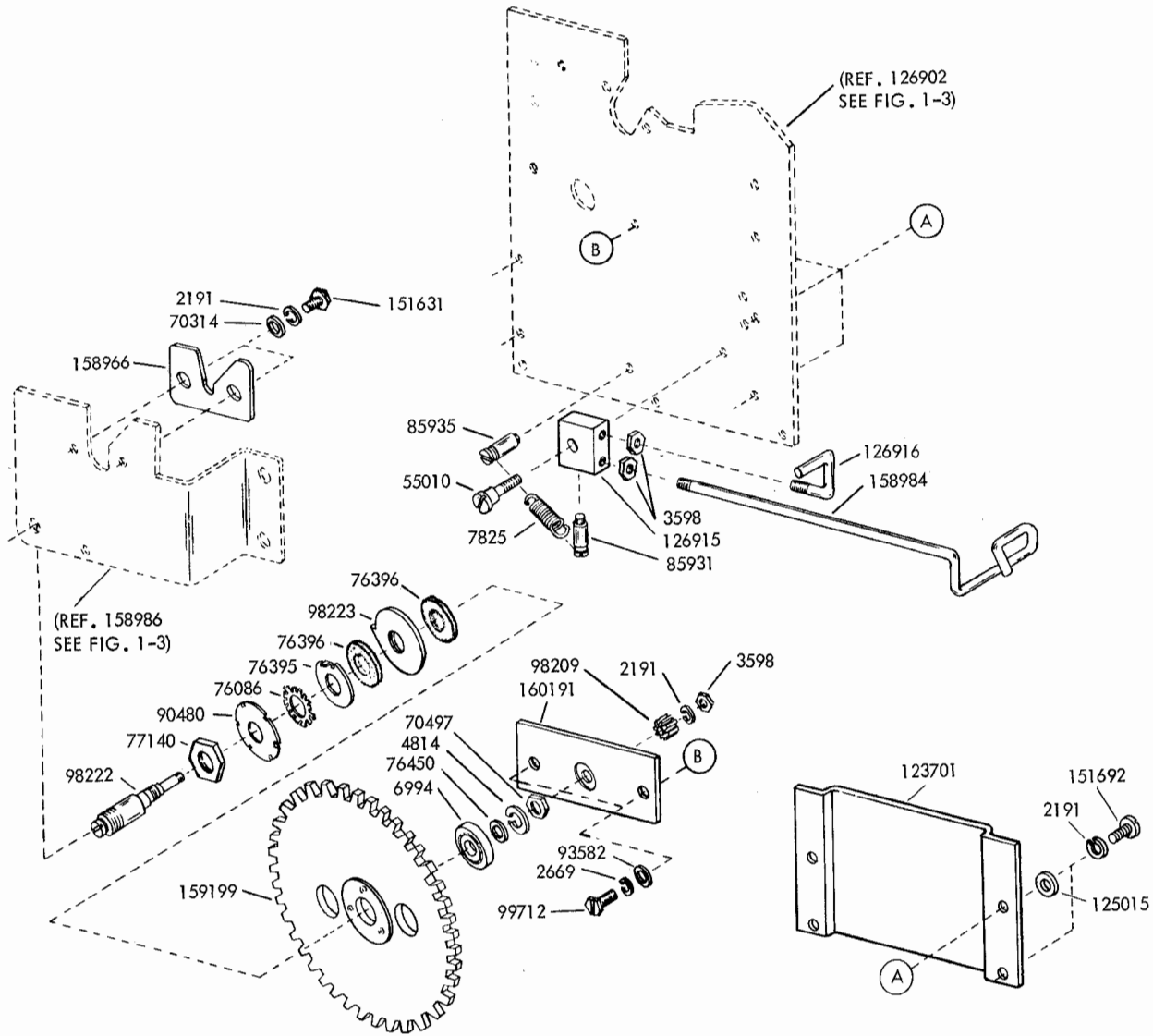


FIGURE 1-3. TAPE WINDER (VIEW 1)

FIGURE 1-4. TAPE WINDER (VIEW 2)



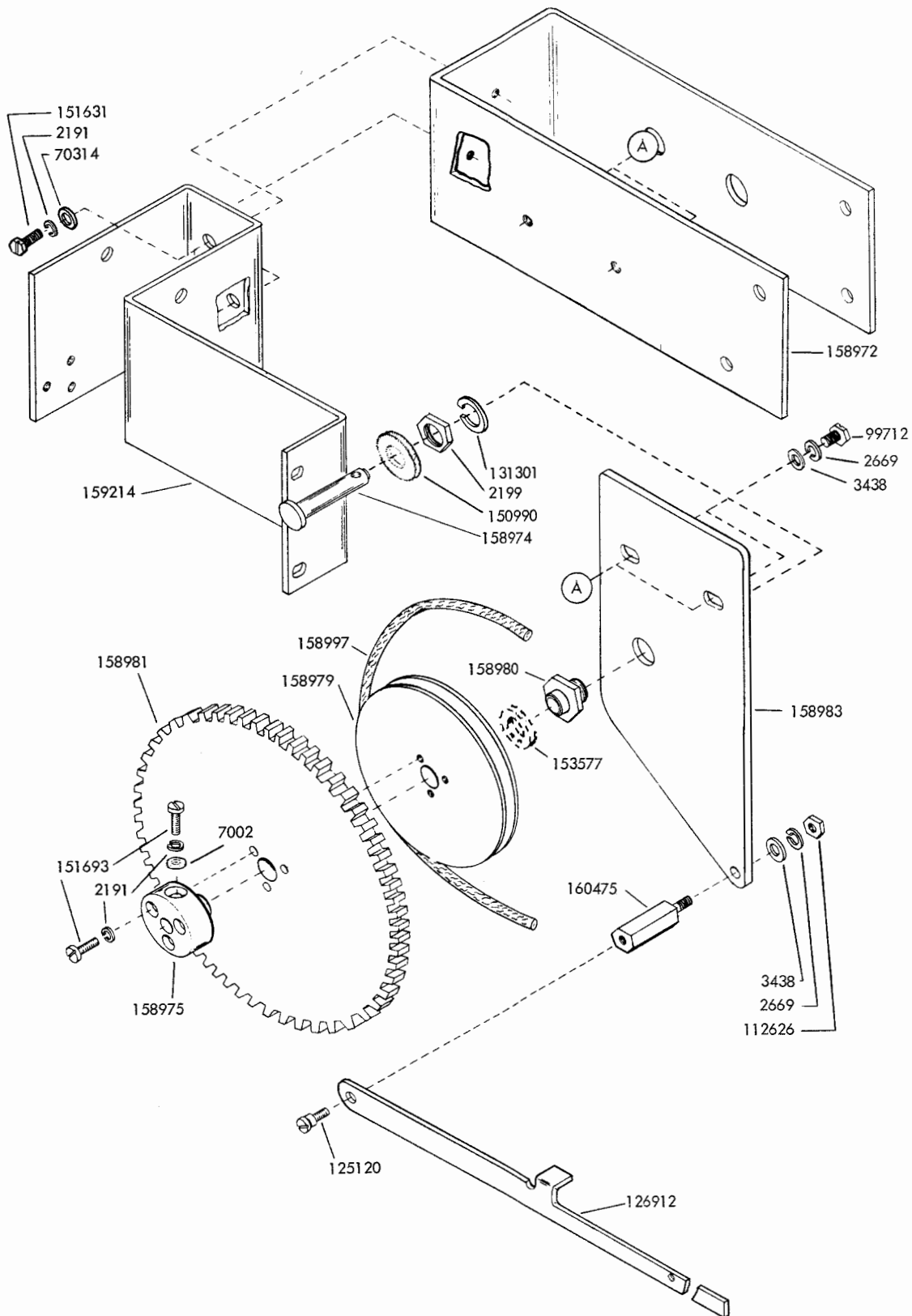
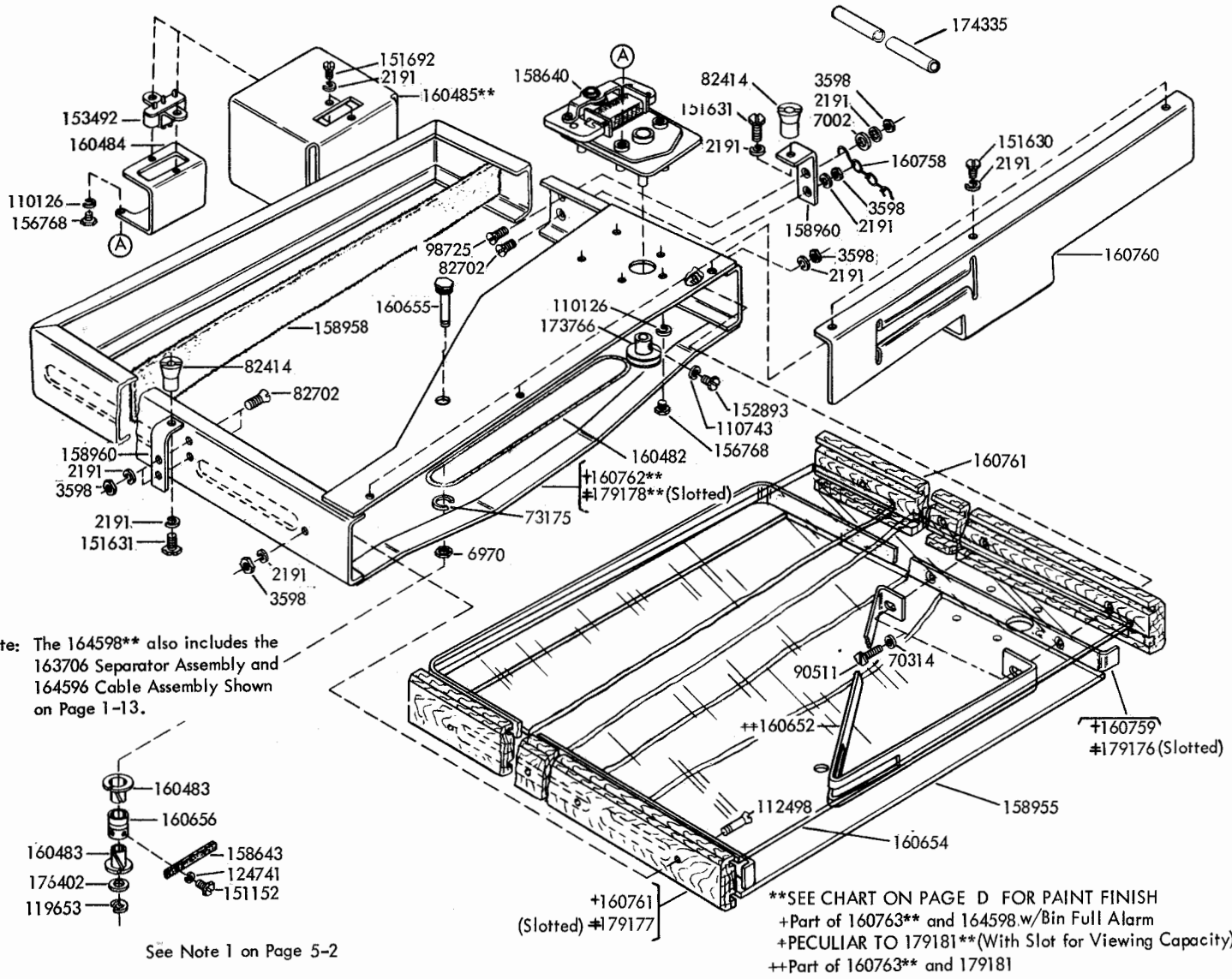


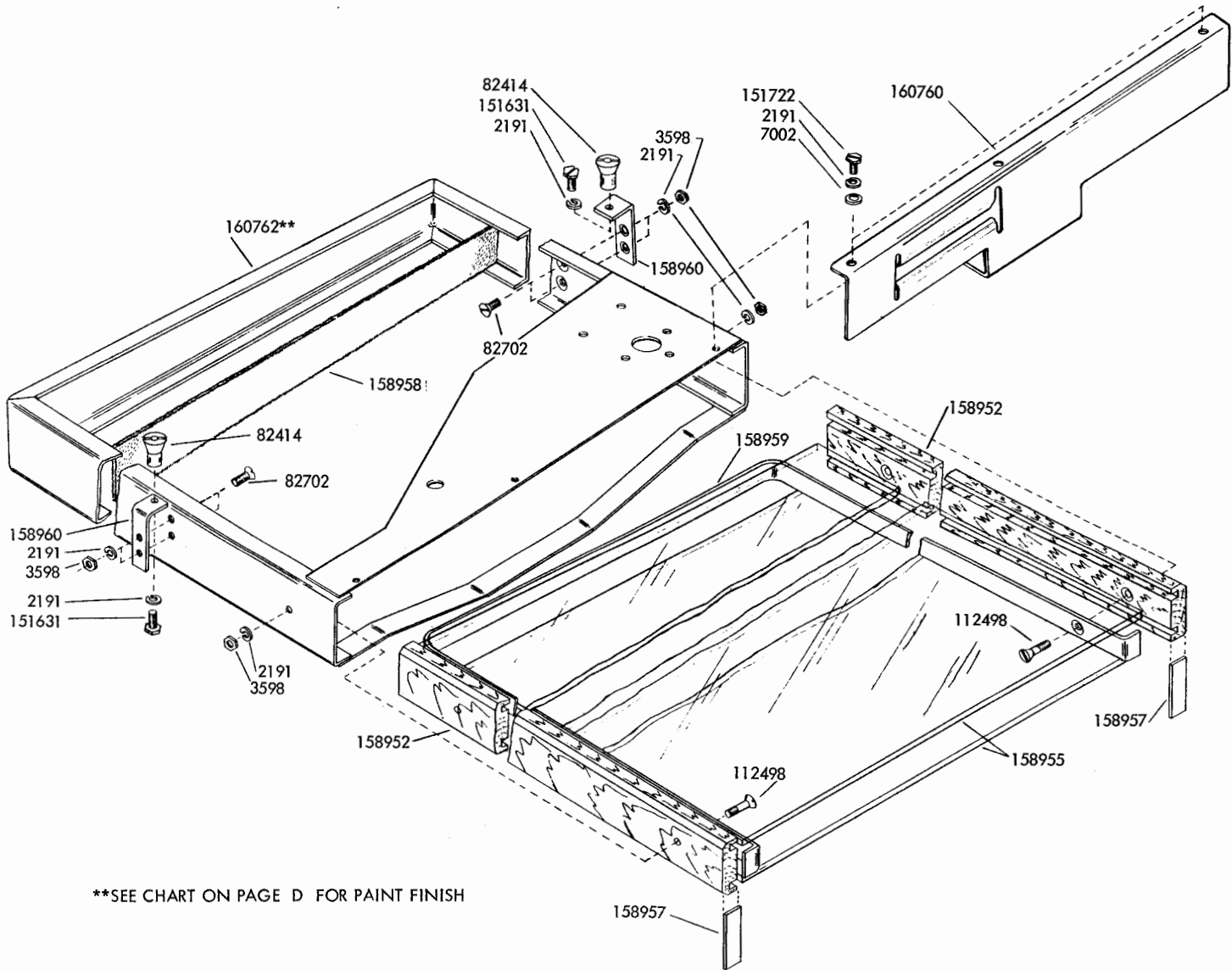
FIGURE 1-5. TAPE WINDER (VIEW 3)

FIGURE 1-6. 160763**, 164598** AND 179181** TAPE STORAGE BIN ASSEMBLIES (WITH MOTOR)



1 1688

FIGURE 1-7. 159202** TAPE STORAGE BIN ASSEMBLY (WITHOUT MOTOR)



**SEE CHART ON PAGE D FOR PAINT FINISH

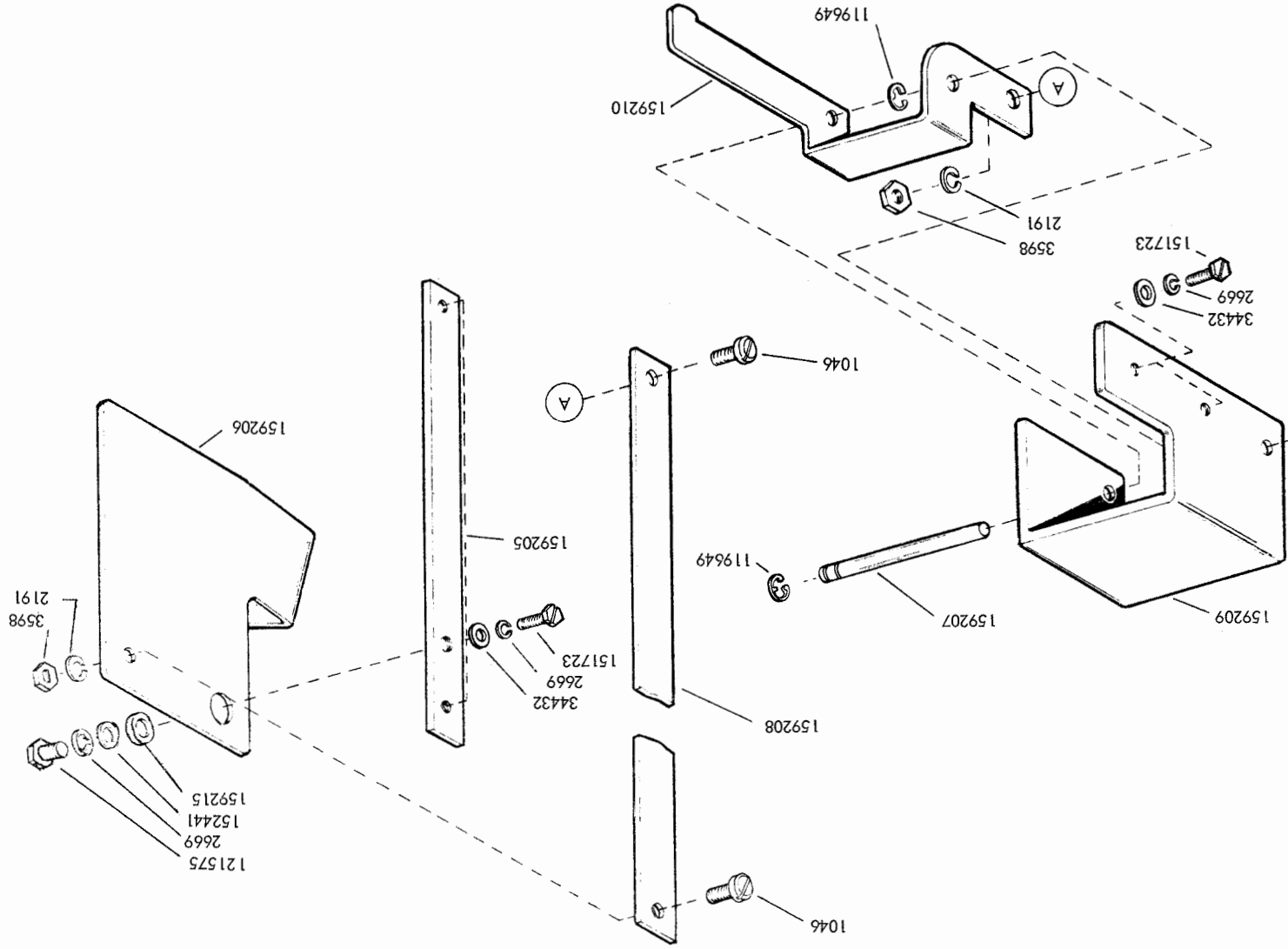


FIGURE 1-8. 159218 LATCH ASSEMBLY

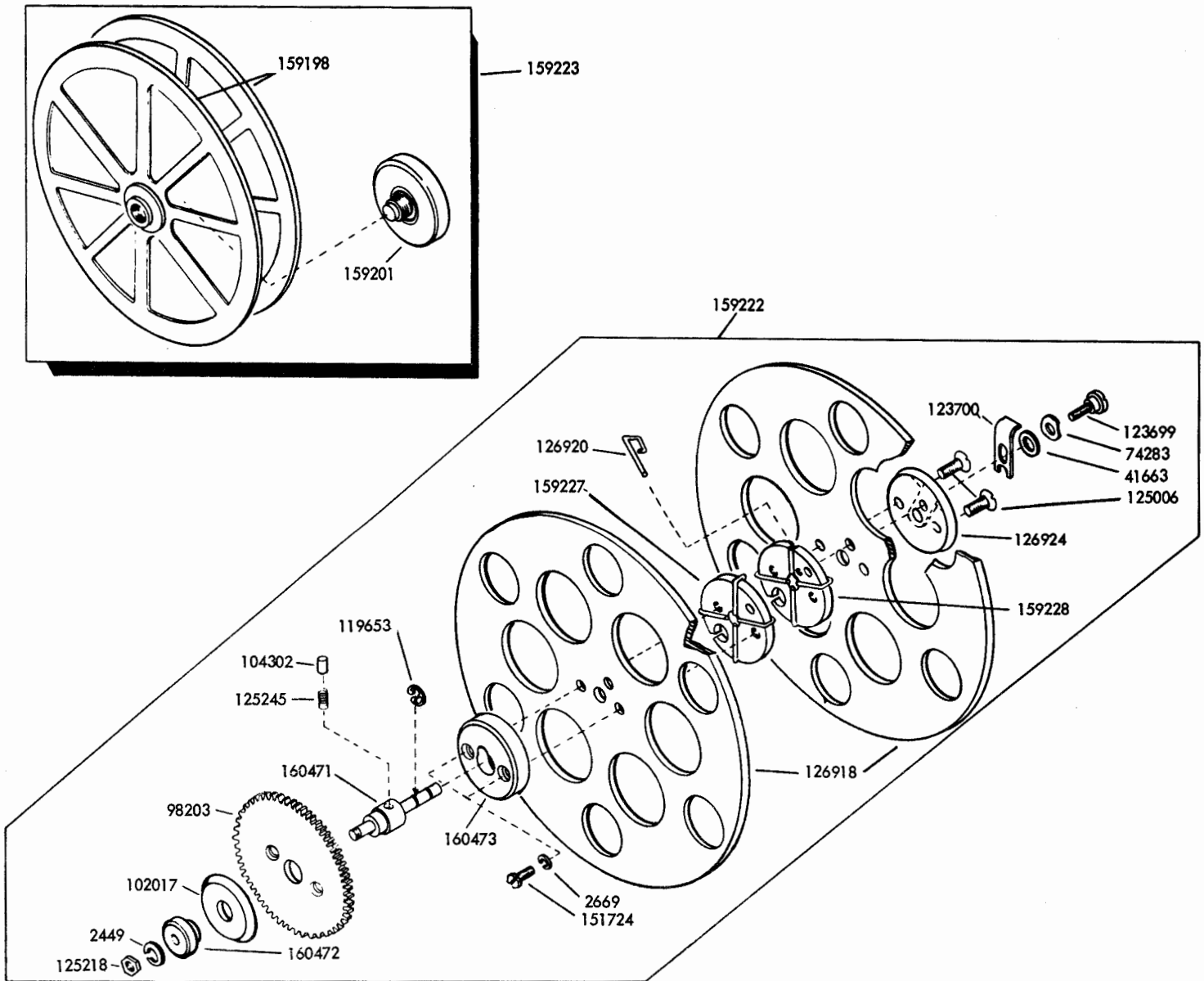
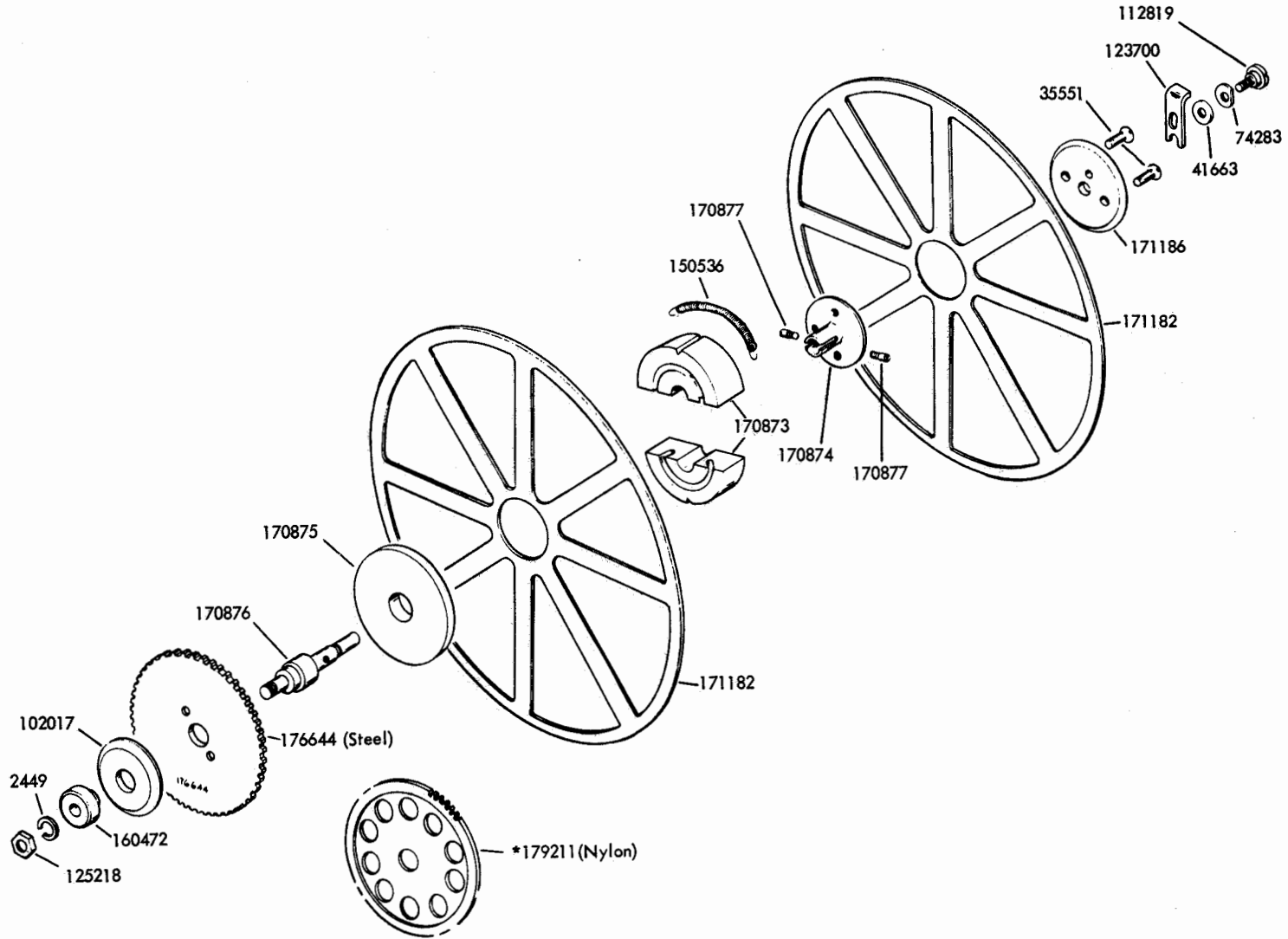


FIGURE 1-9. 159222 TAPE WINDER REEL ASSEMBLY AND 159223 TAPE SUPPLY REEL ASSEMBLY

(LOW SPEED)

FIGURE 1-10. 170835 TAPE WINDER ASSEMBLY (HIGH SPEED)



*PART OF 179746 MODIFICATION KIT (SEE FIG.1-15 FOR ADDITIONAL PARTS)

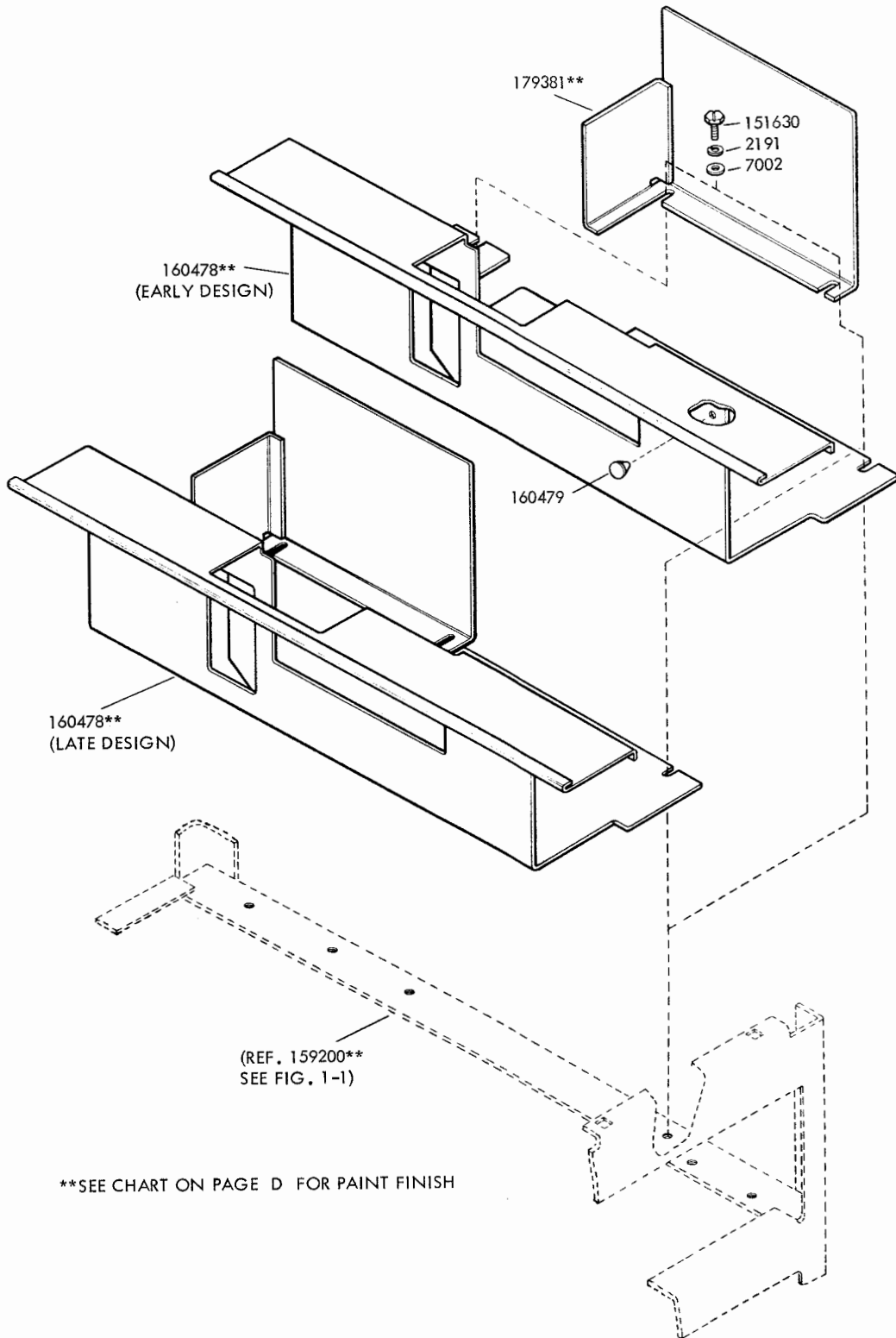
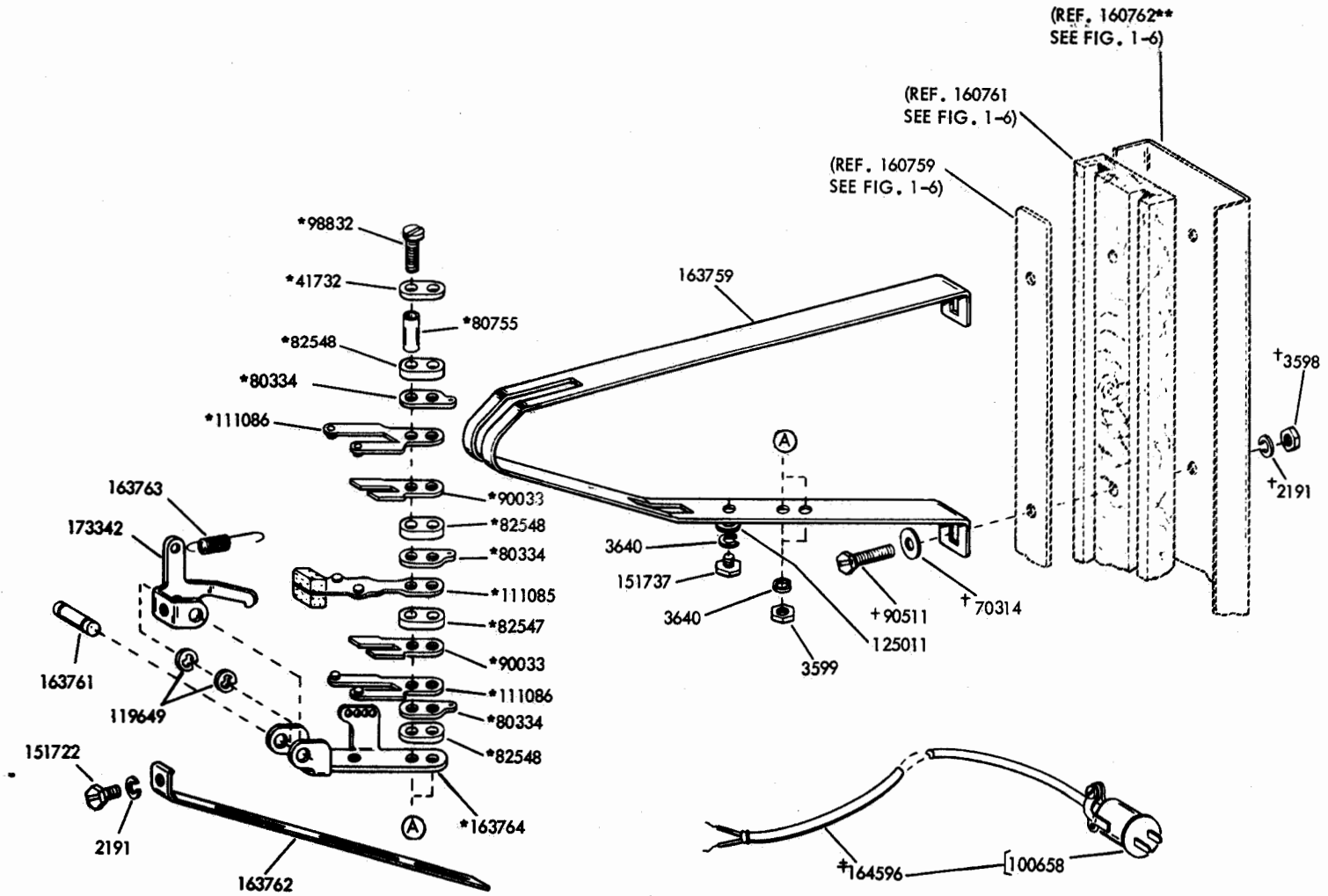
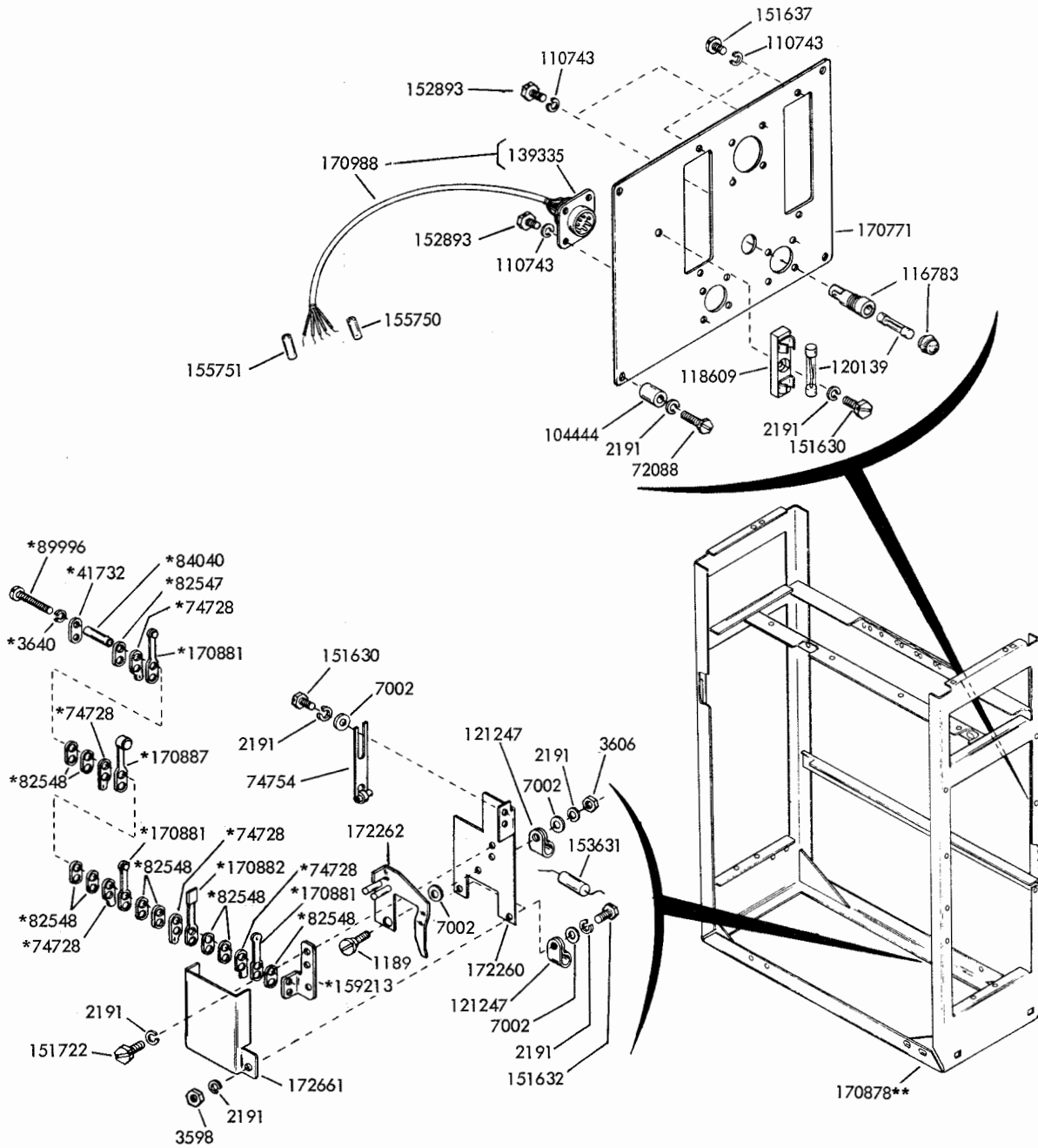


FIGURE 1-11. COVER (OIL SHIELD)

FIGURE 1-12. 163706 SEPARATOR ASSEMBLY AND 172681 MODIFICATION KIT TO PROVIDE BIN FULL ALARM



† NOT PART OF 163706 OR 172681
 ‡ PECULIAR TO 172681
 * PART OF 163750 CONTACT ASSEMBLY
 ** SEE CHART ON PAGE D FOR PAINT FINISH



*PART OF 170880 (Tight Tape & Low tape)
 **SEE CHART ON PAGE D FOR PAINT FINISH

FIGURE 1-13. FRAME (VIEW 3)

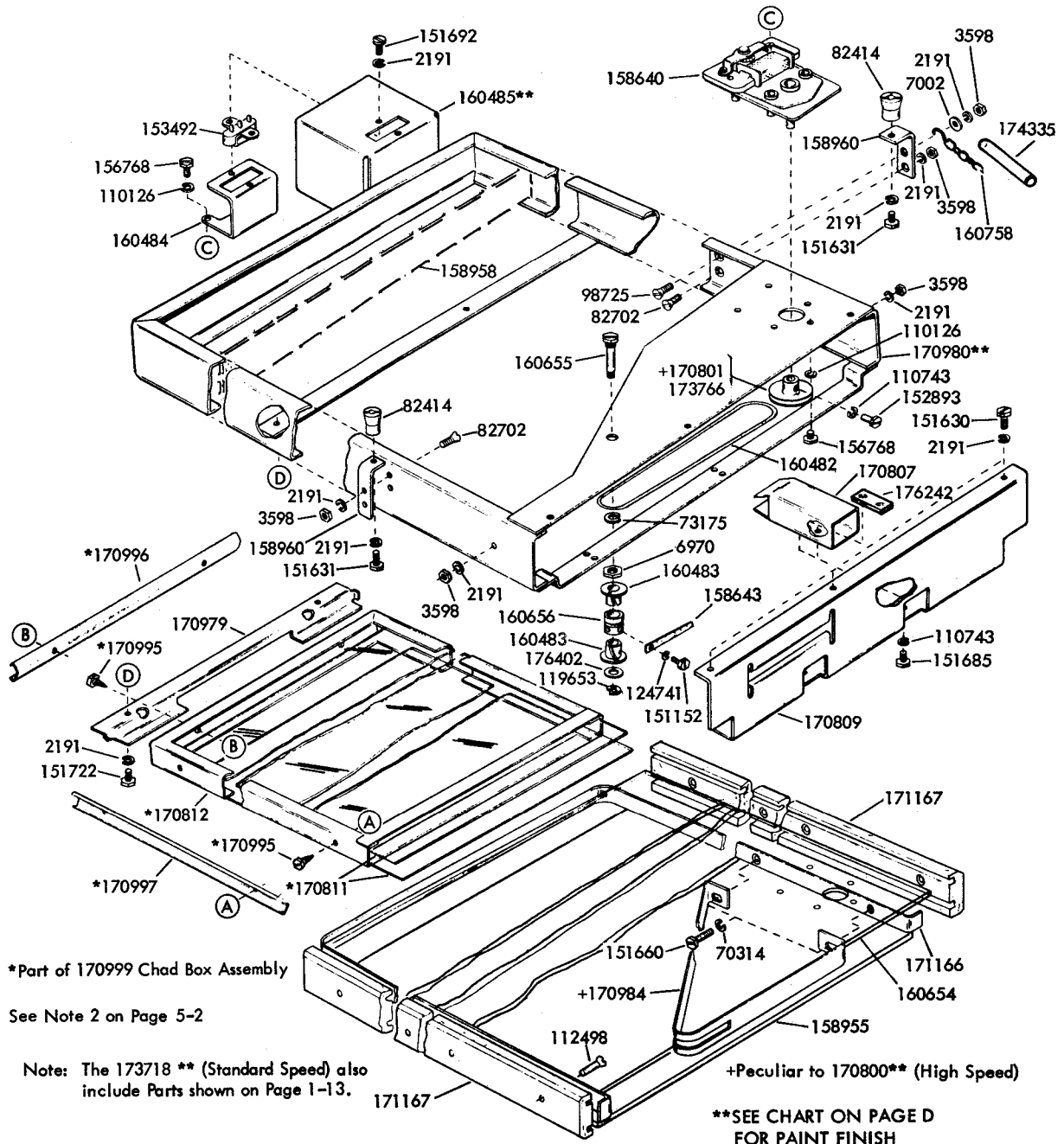
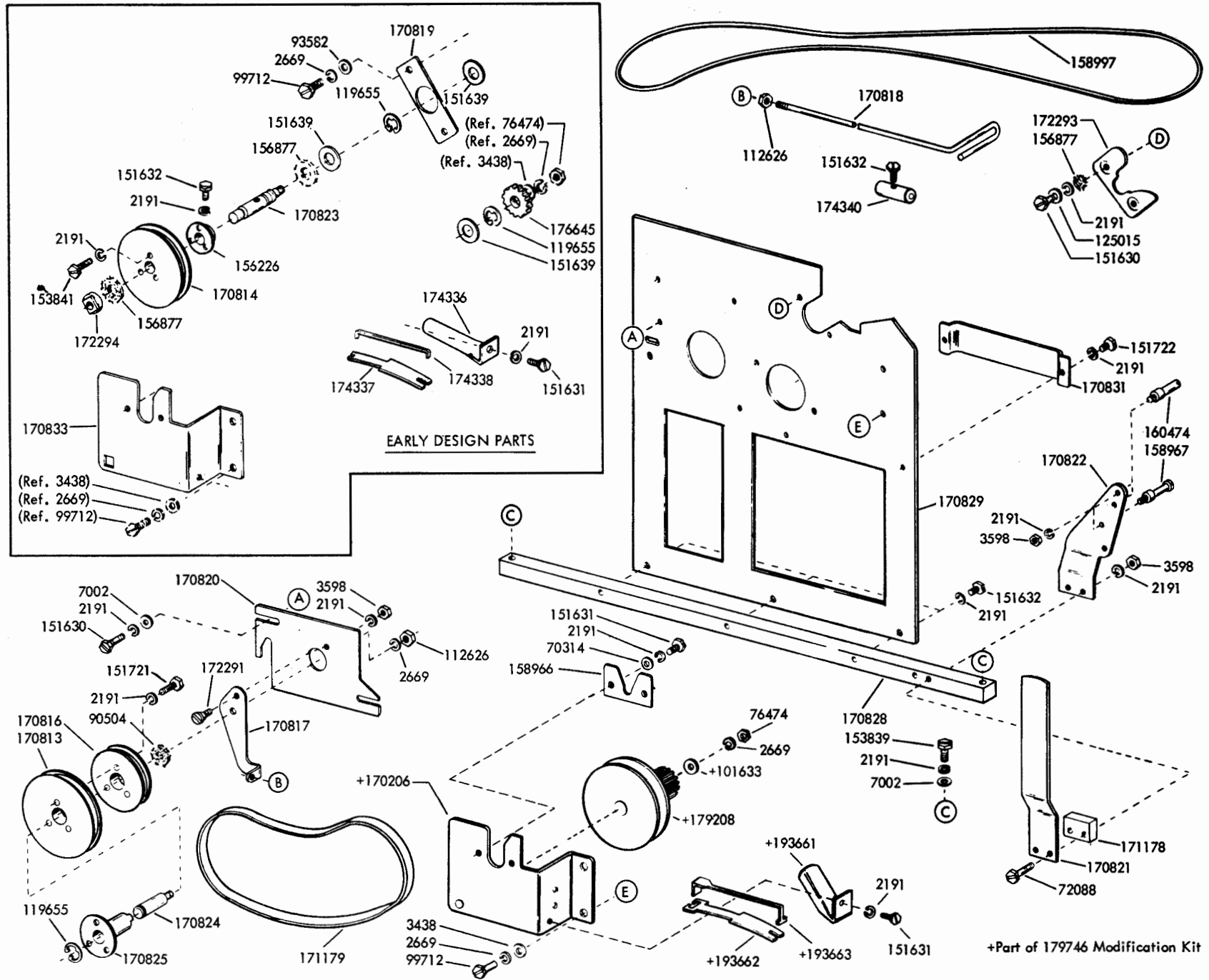


FIGURE 1-14. 170800** AND 173718** TAPE STORAGE BIN ASSEMBLIES

FIGURE 1-15. FRONT PLATE MECHANISM (HIGH SPEED)



11688

FIGURE 1-16. REAR PLATE ASSEMBLY

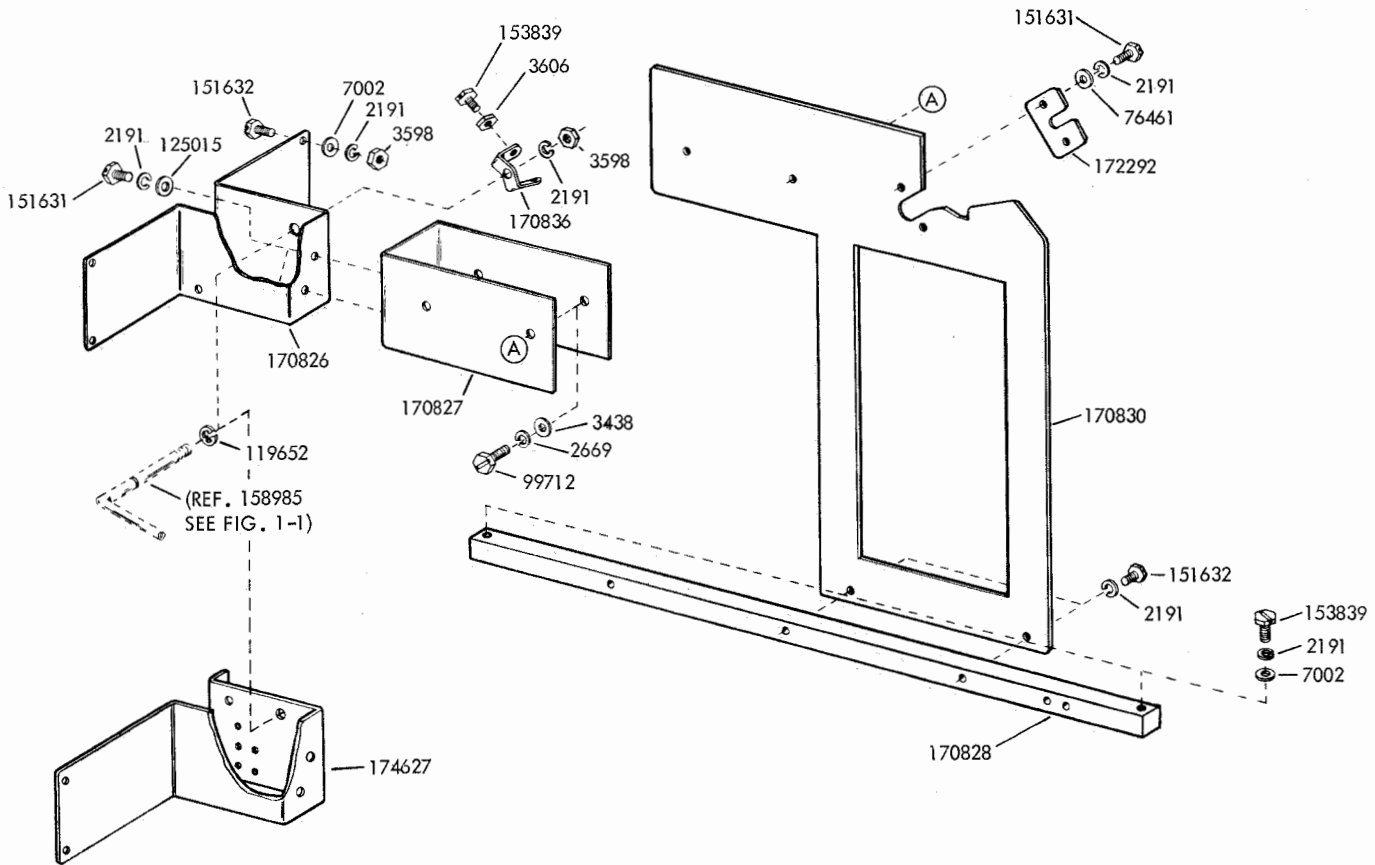
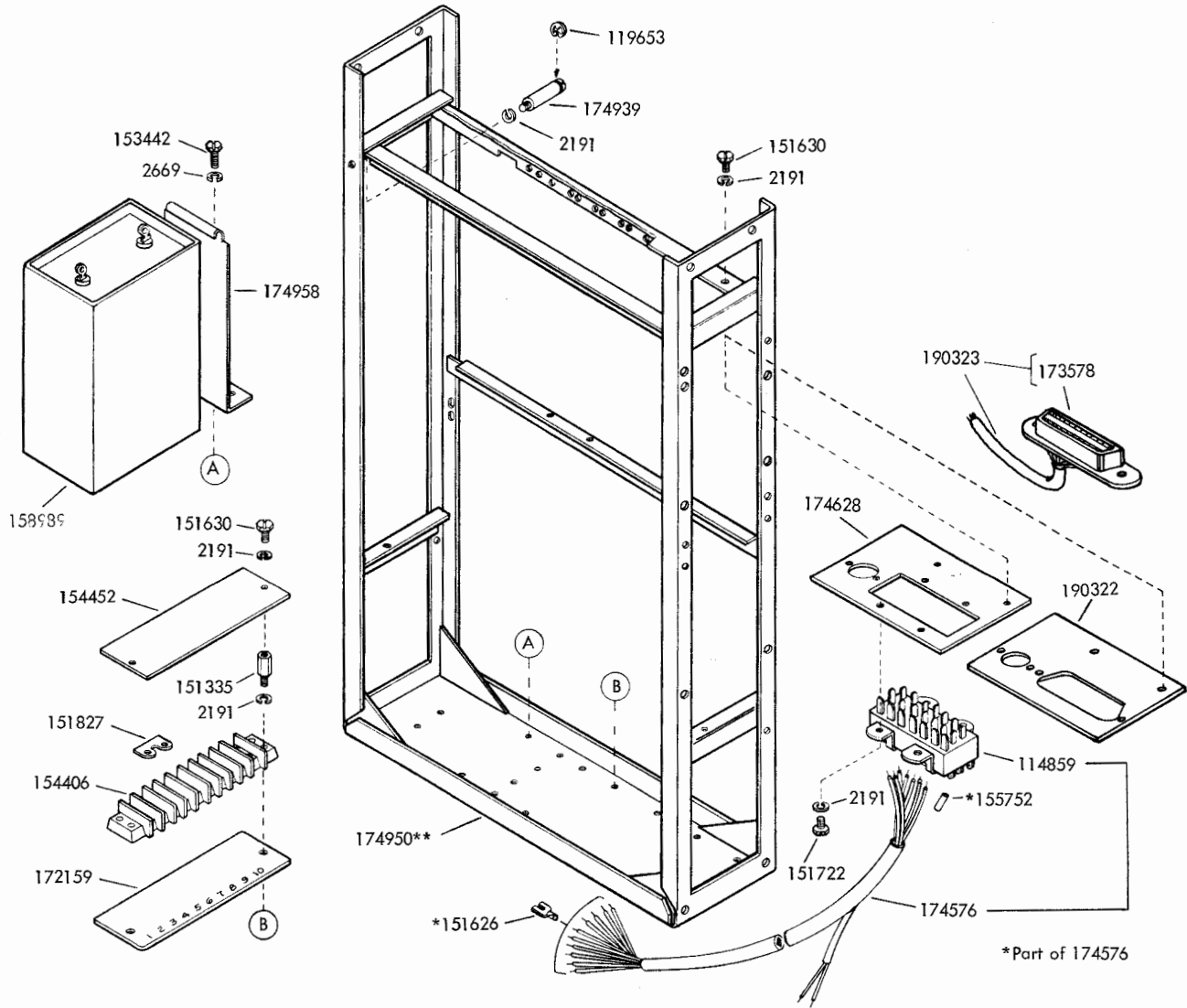


FIGURE 1-17. FRAME AND ELECTRICAL COMPONENT



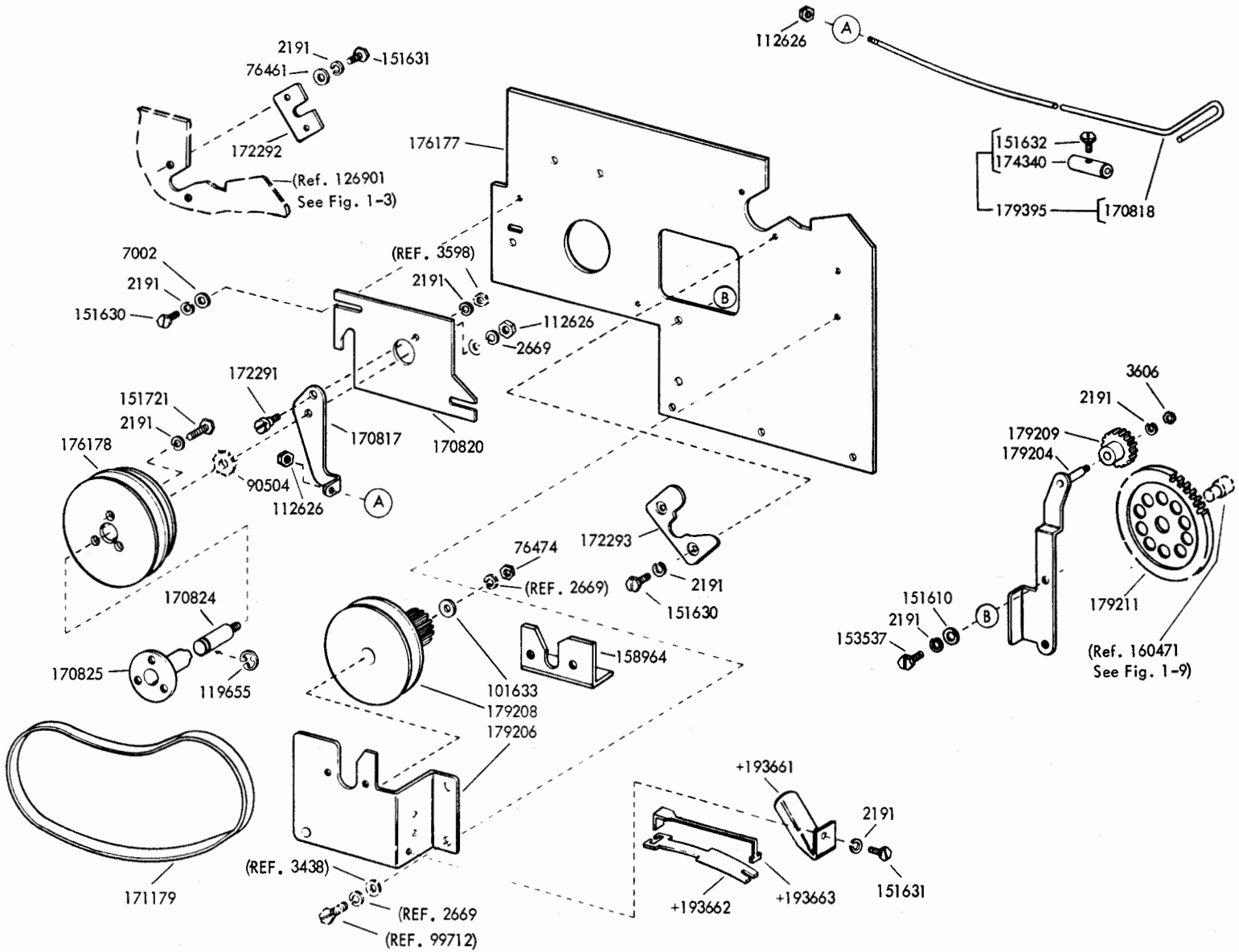
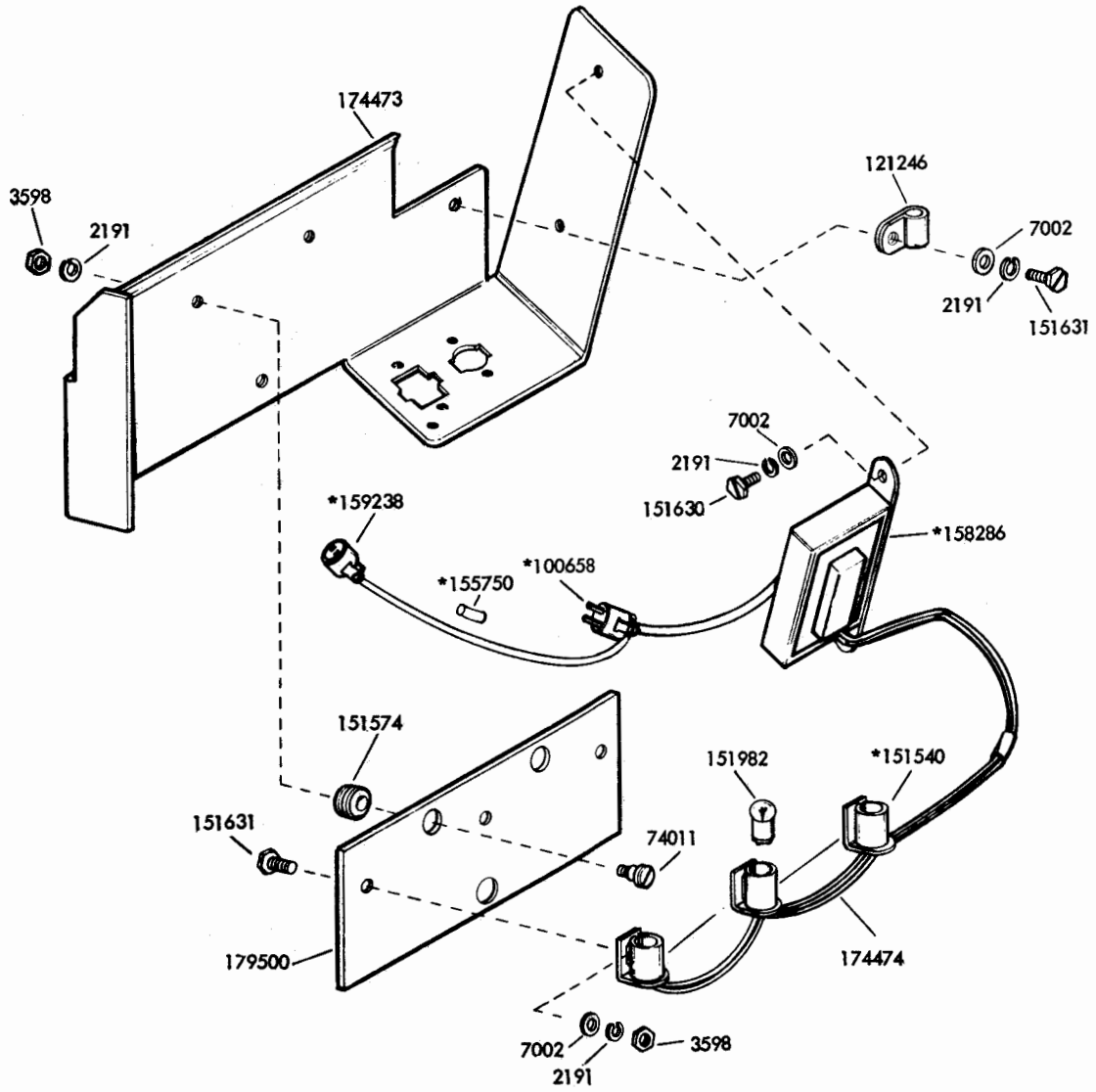


FIGURE 1-18. 176176 MODIFICATION KIT TO PROVIDE BELT DRIVE FOR LOW SPEED TAPE HANDLINGS

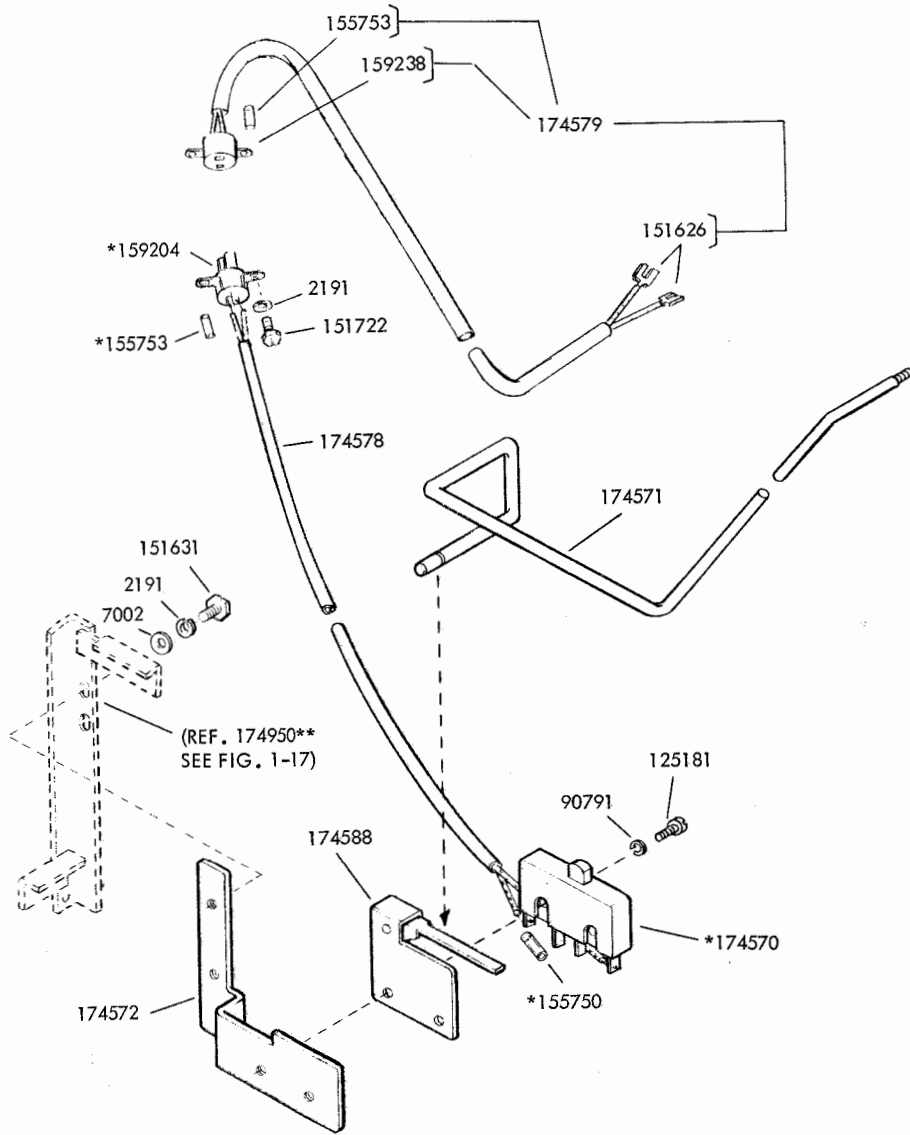
CHANGE 5

+Part of 193940 Modification Kit (Specification 501485)



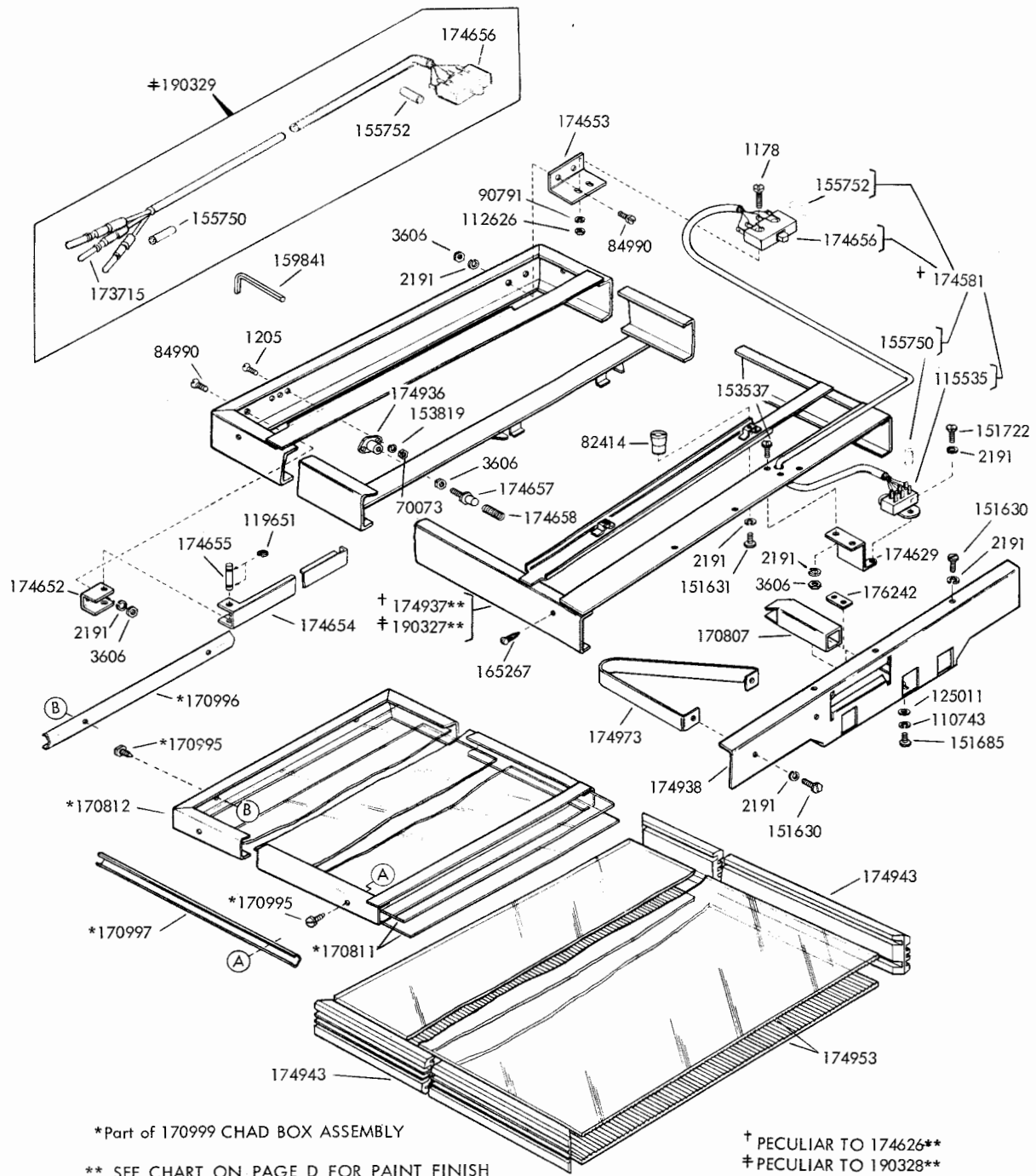
*Part of 174474

FIGURE 1-19. 174472 MODIFICATION KIT TO PROVIDE AC LIGHTING FOR LTHS STAND



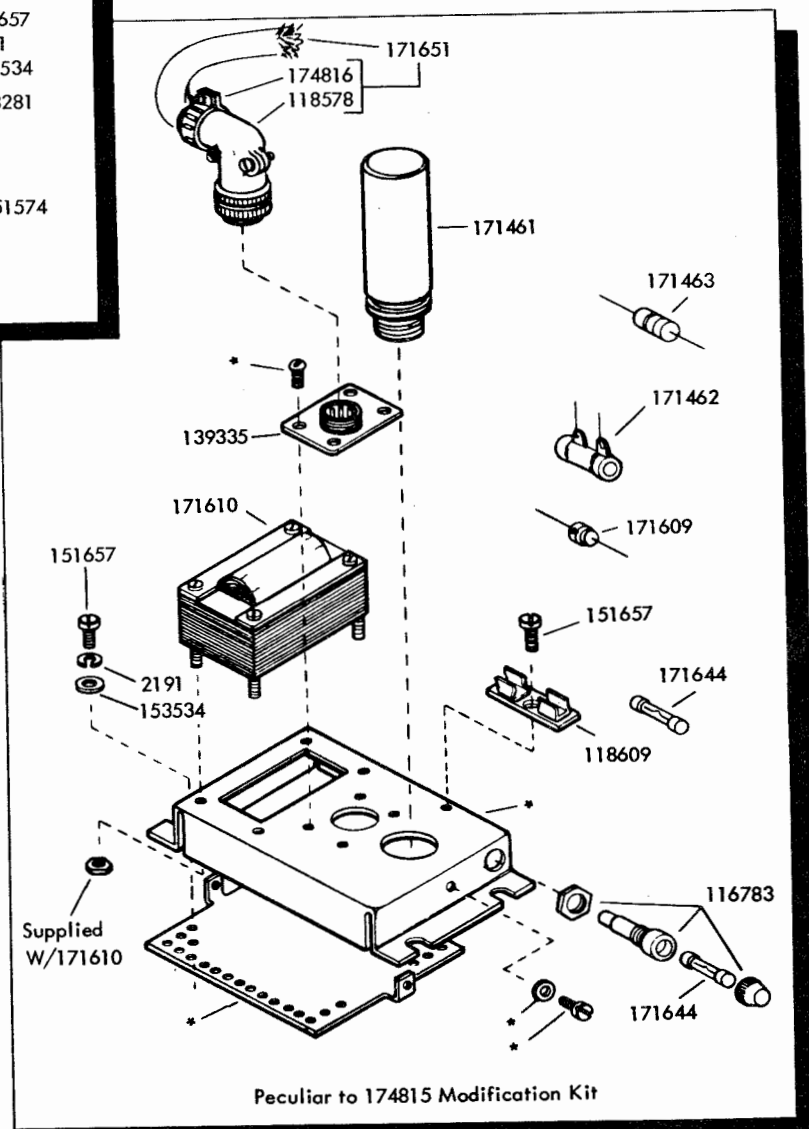
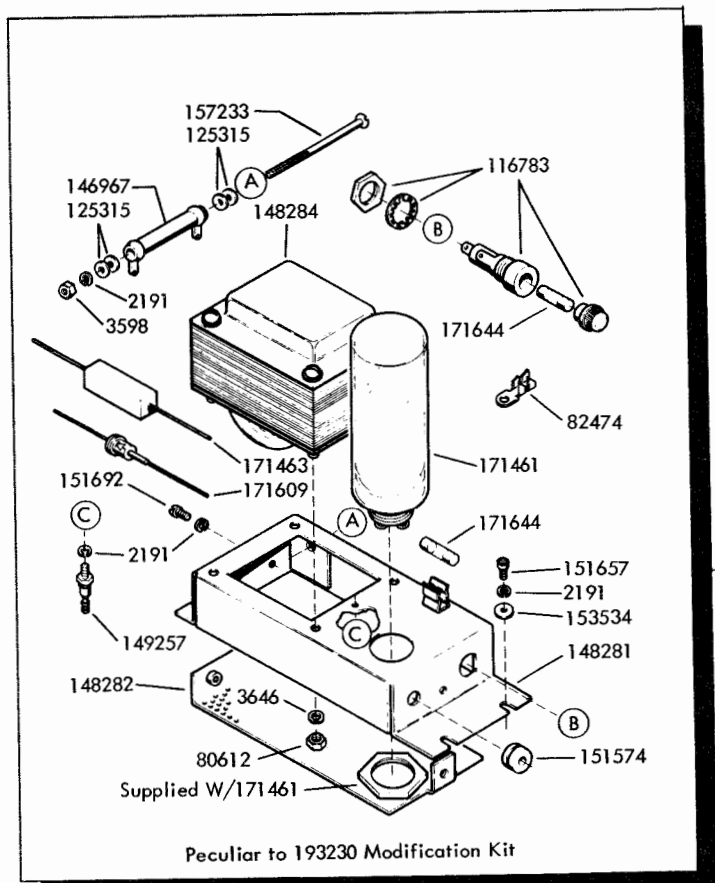
*Part of 174578

FIGURE 1-20. 174569 MODIFICATION KIT TO PROVIDE END-OF-TAPE CONTACTS ON TAPE HANDLING STANDS



See Note 3 on Page 5-2

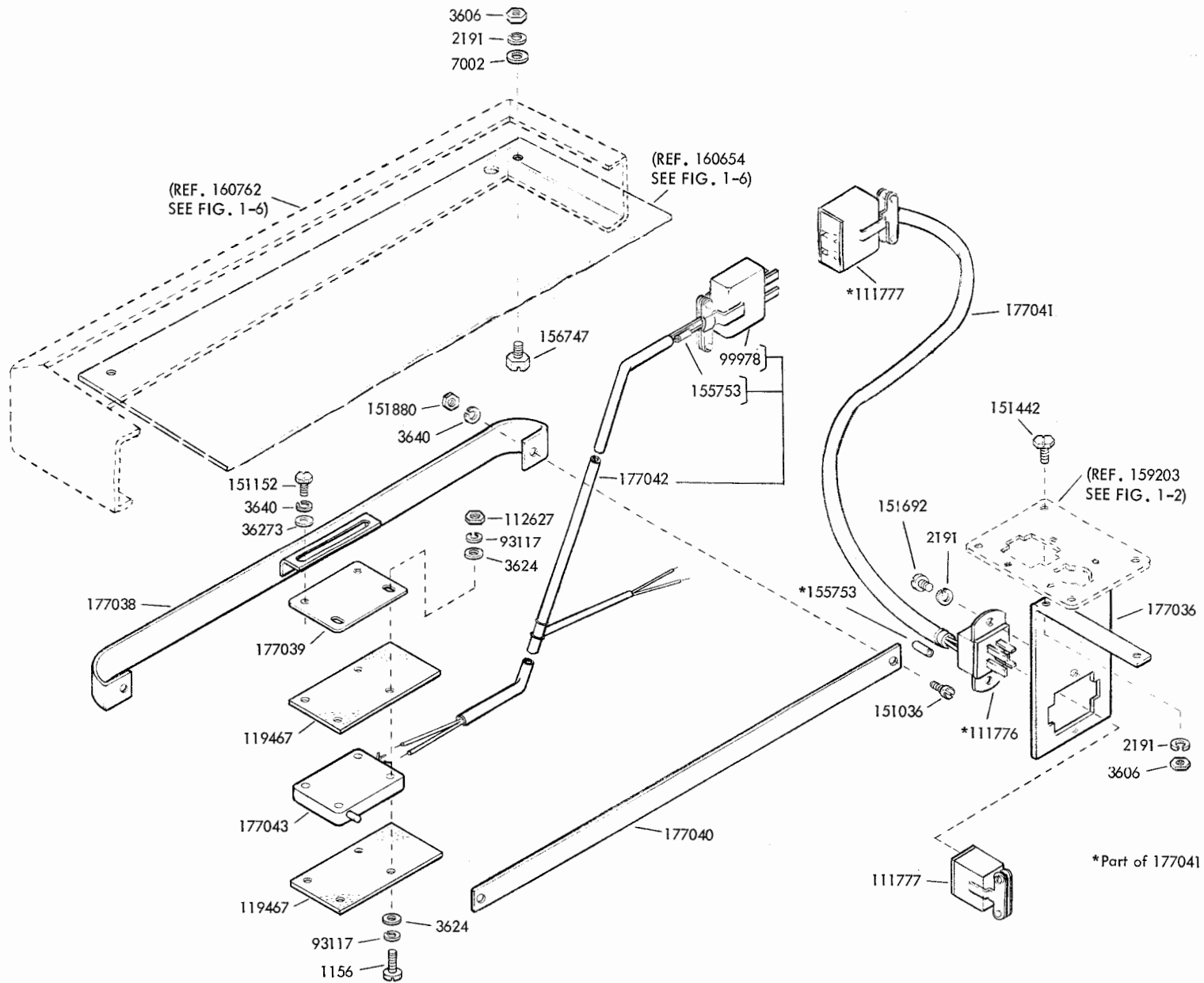
FIGURE 1-21. 174626** AND 190328 TAPe STORAGE BIN ASSEMBLIES (WITHOUT MOTOR)



*Replacement part numbers not assigned

FIGURE 1-22. 174815 AND 193230 MODIFICATION KITS TO PROVIDE 48V POWER SUPPLY

FIGURE 1-23. 177035 MODIFICATION KIT TO PROVIDE TAPE BIN LOW ALARM



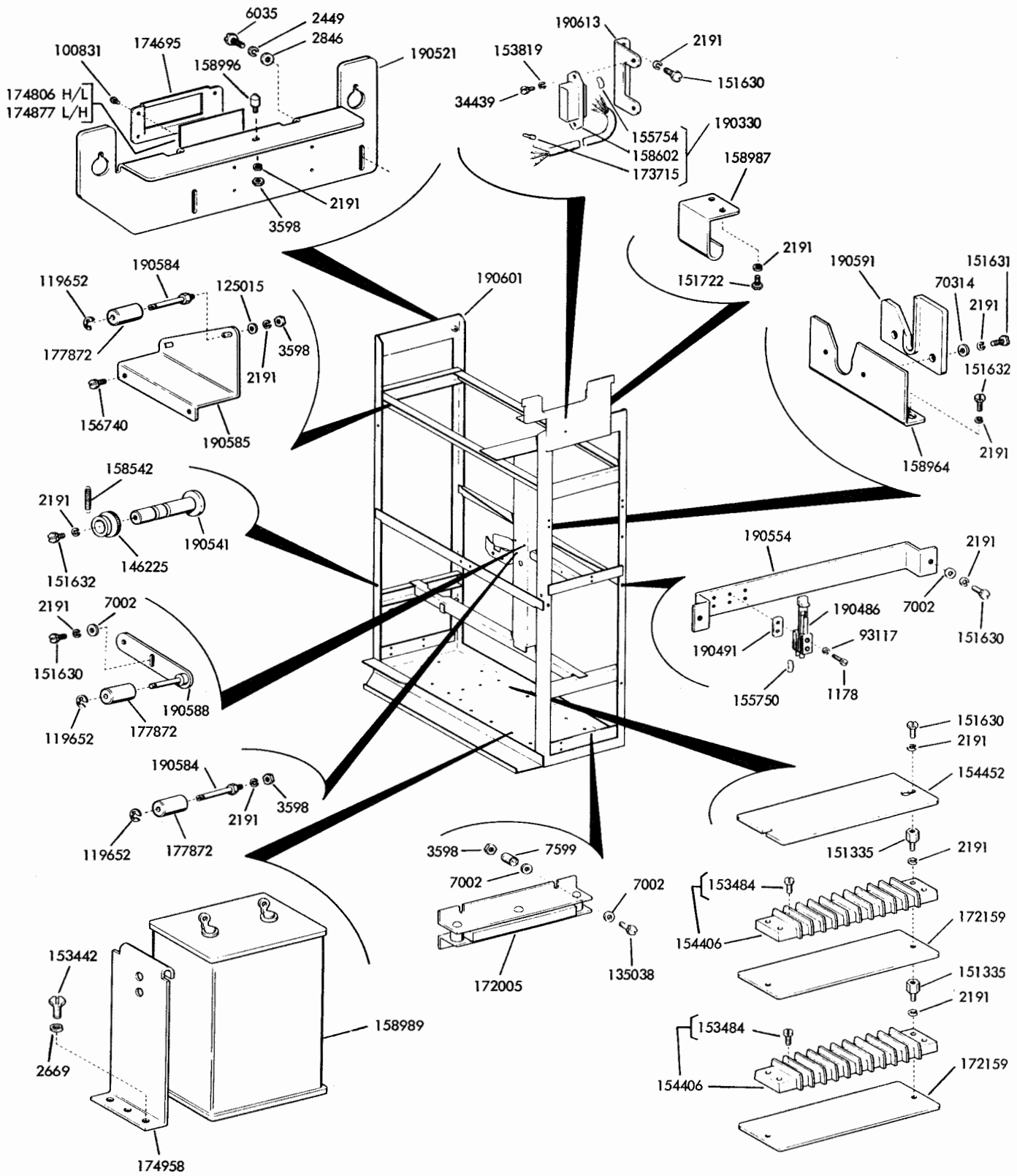


FIGURE 1-25. FRAME MECHANISM

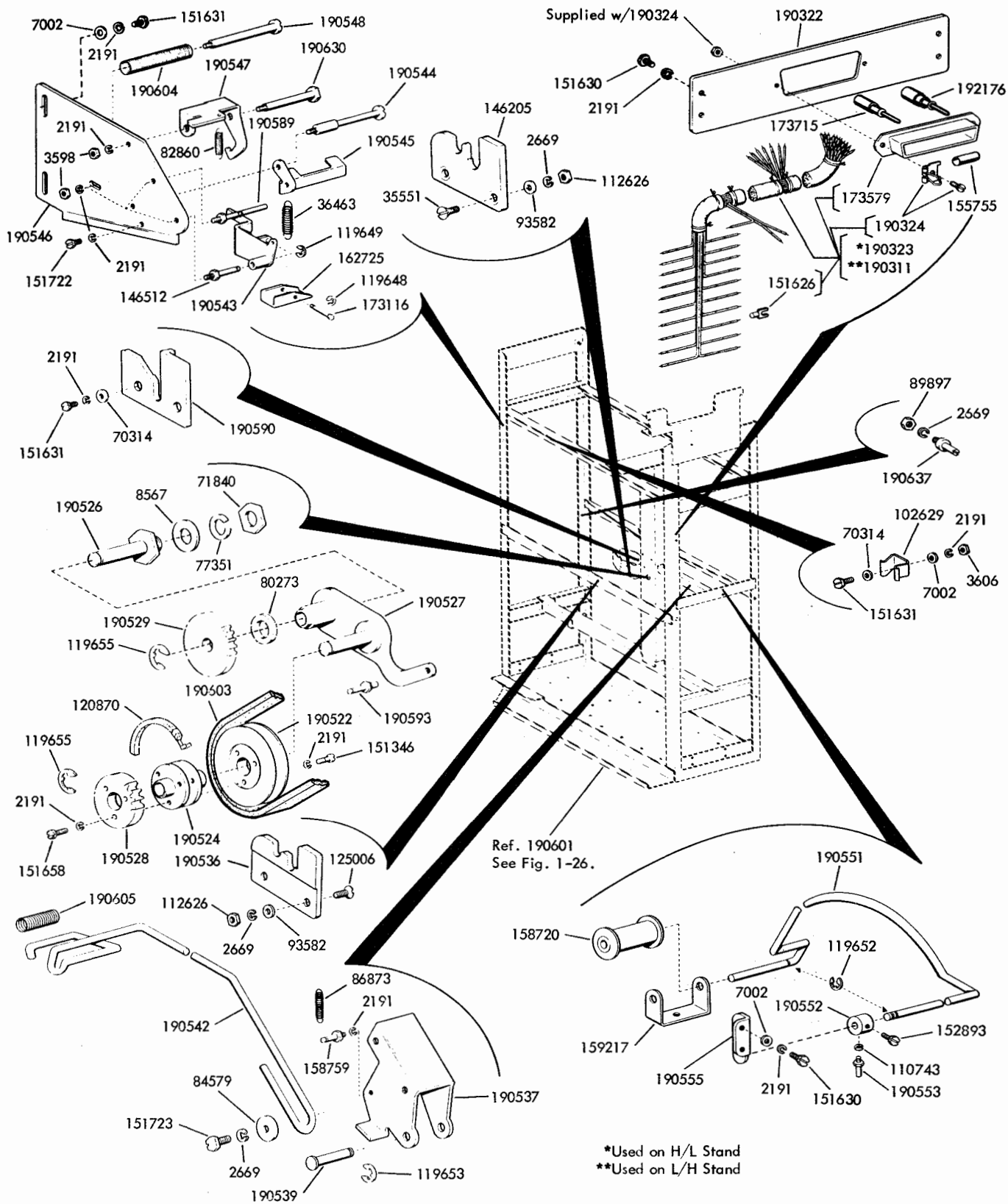


FIGURE 1-26. FRAME MECHANISM

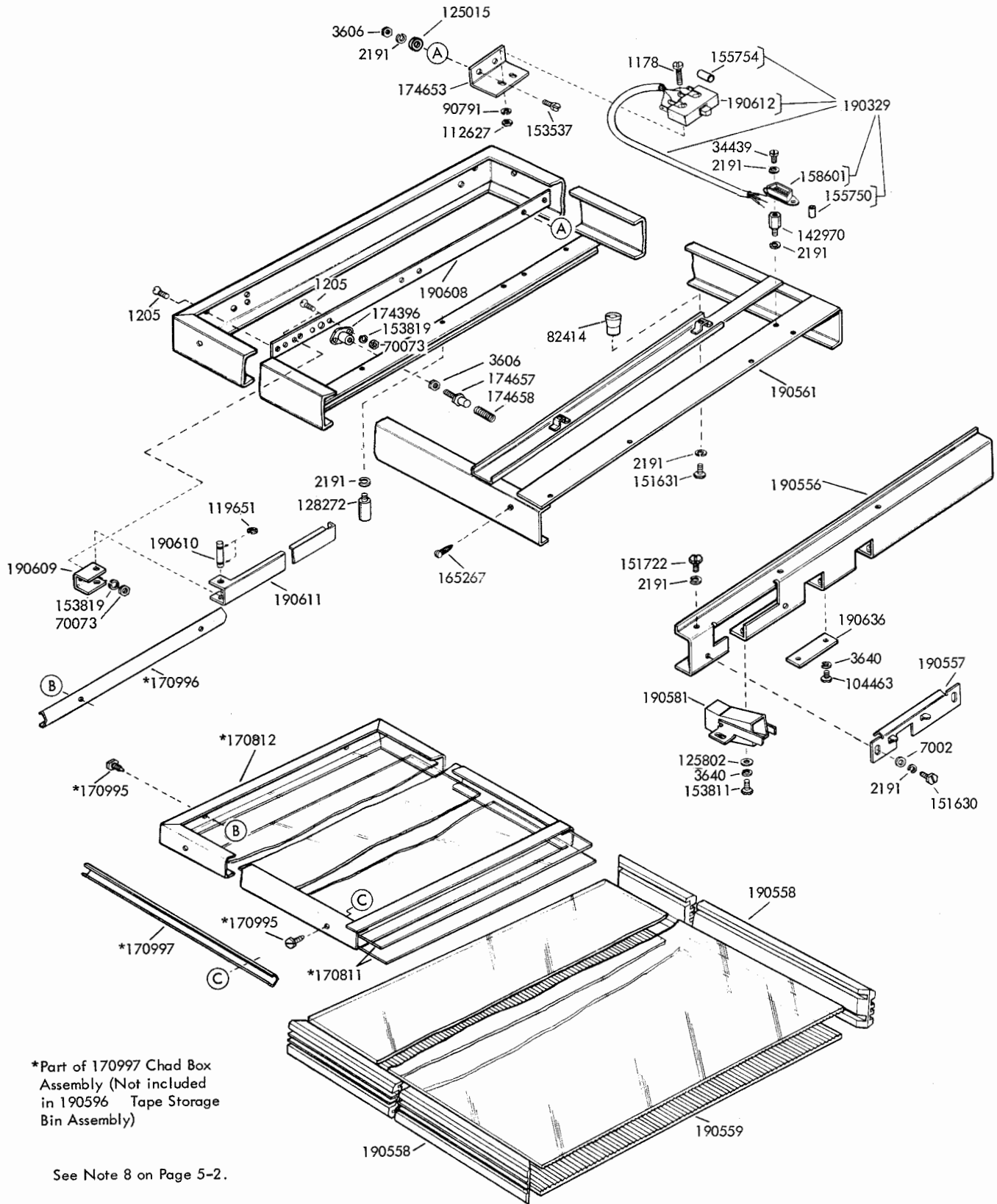


FIGURE 1-27. 190596 TAPE STORAGE BIN ASSEMBLY

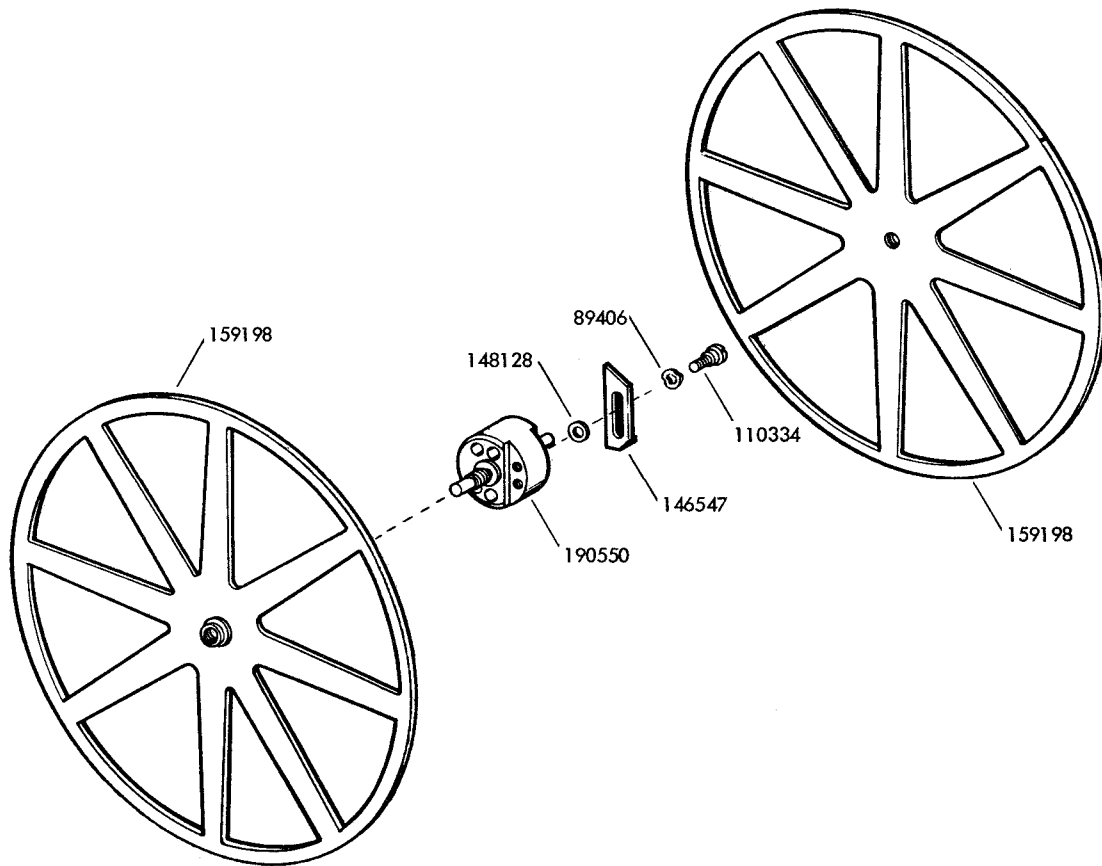


FIGURE 1-28. 190594 TAPE SUPPLY REEL ASSEMBLY

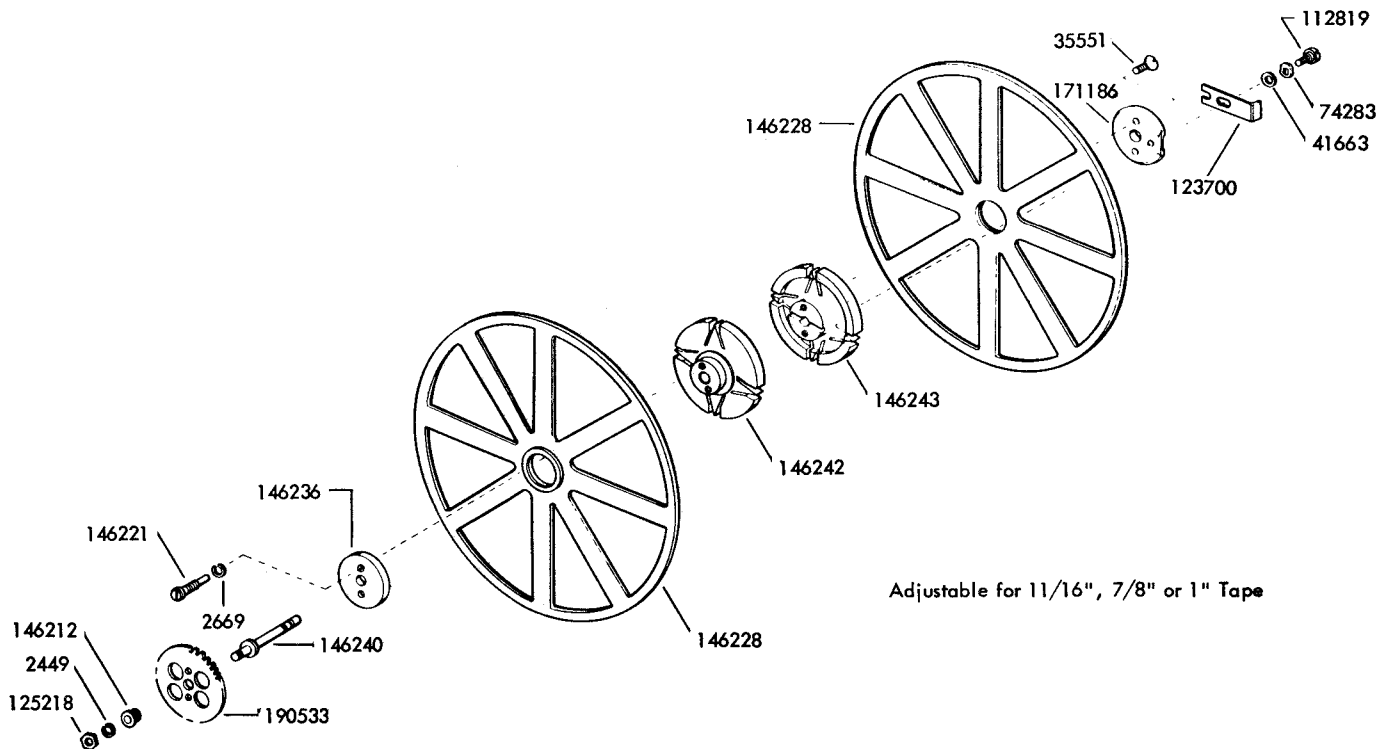


FIGURE 1-29. 190595 TAPE WINDER REEL ASSEMBLY

NUMERICAL INDEX - SECTION 1

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1046	Screw, Shoulder (6-40) 1-9	76086	Washer, Spring 1-5	110743	Washer, Lock 1-3,1-7,1-14,1-15,1-22,1-25,1-27
1156	Screw (2-56 x 9/16 Fil) 1-24	76395	Disk, Friction 1-5	111085	Spring, Contact 1-13
1178	Screw (2-56 x 7/16 Fil) 1-22,1-26,1-28	76396	Washer, Felt 1-5	111086	Spring, Contact 1-13
1189	Screw, Shoulder (6-40) 1-14	76450	Shim (.028") 1-5	111776	Connector, Plug (4 Pt) 1-3,1-24
1205	Screw (3-48 x 19/64 Flat) 1-22,1-28	76461	Washer, Flat 1-17	111777	Connector, Receptacle (4 Pt) 1-24
2191	Washer, Lock 1-2 to 1-10,1-13 to 1-28	76474	Nut (10-32 Hex) 1-4,1-16	112498	Screw (6-40 x 3/4 Flat) 1-7,1-8,1-15
2199	Nut (7/16-32 Hex) 1-6	77140	Nut, Lock (9/16-32) 1-5	112620	Screw (4-40 x 1/2 Hex) 1-3
2449	Washer, Lock 1-10,1-11,1-26,1-29	77351	Washer, Lock 1-27	112626	Nut (10-32 Hex) 1-6,1-19,1-22,1-27
2669	Washer, Lock 1-2,1-4,1-5,1-6,1-9,1-10,1-16 to 1-19,1-26,1-27,1-29	80273	Washer, Felt 1-27	112627	Nut (2-56 Hex) 1-24,1-28
2846	Washer, Flat 1-26	80334	Terminal, Contact 1-13	112819	Screw, Shoulder (6-40) 1-11,1-29
3438	Washer, Flat 1-4,1-6,1-16,1-17	80612	Nut (8-32 Hex) 1-23	114859	Connector, Plug (21 Pt) 1-18
3598	Nut (6-40 Hex) 1-2 to 1-5,1-7,1-8,1-9,1-13,1-14,1-15,1-16,1-17,1-20,1-23,1-25 to 1-27	80755	Bushing, Insulating 1-13	115535	Connector, Plug (6 Pt) 1-22,1-25
3599	Nut (4-40 Hex) 1-13	82414	Knob, Detent 1-7,1-8,1-15,1-28	116783	Holder, Fuse 1-14,1-23
3606	Nut (6-40 Hex) 1-2,1-3,1-14,1-17,1-19,1-22,1-24,1-27,1-28	82474	Terminal 1-23	118578	Clamp, Cable 1-23
3624	Washer, Flat 1-24	82547	Insulator (.094") 1-13,1-14	118609	Holder, Fuse 1-14,1-23
3640	Washer, Lock 1-13,1-14,1-23,1-24,1-28	82548	Insulator (.062") 1-13,1-14	119467	Insulator (.032") 1-24
3646	Washer, Lock 1-23	82702	Screw (6-40 x 9/32 Flat) 1-7,1-8,1-15,1-25	119648	Ring, Retaining 1-27
4814	Washer, Lock 1-5	82860	Spring 1-27	119649	Ring, Retaining 1-9,1-13,1-27
6035	Screw (1/4-20 x 5/8 Hex) 1-26	84040	Bushing 1-14	119651	Ring, Retaining 1-22,1-25,1-28
6970	Nut (3/8-32 Hex) 1-7,1-15,1-25	84579	Washer, Flat 1-27	119652	Ring, Retaining 1-2,1-17,1-26,1-27
6994	Bearing, Ball 1-5	84990	Screw (6-40 x 1/4 Flat) 1-22	119653	Ring, Retaining 1-7,1-10,1-15,1-18,1-27
7002	Washer, Flat 1-2,1-3,1-4,1-6,1-7,1-8,1-10,1-14,1-15,1-16,1-17,1-19,1-20,1-21,1-24 to 1-28	85931	Post, Spring 1-5	119655	Ring, Retaining 1-16,1-19,1-27
7599	Spring 1-26	85935	Post, Spring 1-4,1-5	120139	Fuse (1 Amp) 1-14
7634	Spring 1-5	86873	Spring 1-27	120870	Wick, Felt 1-27
7825	Spring 1-5	89406	Washer, Spring 1-29	121243	Clamp, Cable (3/16 ID) 1-2,1-4
8567	Washer, Flat 1-27	89897	Nut (10-32 Hex) 1-27	121244	Clamp, Cable (1/4 ID) 1-4
34432	Washer, Flat 1-9	89996	Screw (4-40 x 63/64 Fil) 1-14	121246	Clamp, Cable (3/8 ID) 1-3,1-20
34439	Screw (3-48 x 17/64 Fil) 1-26,1-28	90033	Stiffener 1-13	121247	Clamp, Cable (7/16 ID) 1-14
35551	Screw (10-32 x 3/8 Flat) 1-4,1-27,1-29	90480	Nut, Capstan (9/16-32) 1-5	121402	Grommet, Rubber 1-25
36273	Washer, Flat 1-24	90504	Washer, Felt 1-16,19	121575	Screw (10-32 x 5/16 Hex) 1-9
36463	Spring 1-27	90511	Screw (6-40 x 13/16 Hex) 1-7,1-13	123699	Screw, Shoulder (6-40) 1-10,1-11
41663	Washer, Flat 1-10,1-11,1-29	90791	Washer, Lock 1-21,1-22,1-28	123700	Plate, Locking 1-10,1-11,1-29
41732	Plate, Clamp 1-3,1-13,1-14	93117	Washer, Lock 1-24,1-26	123701	Guard, Pinion 1-5
41974	Spring 1-4	93582	Washer, Flat 1-5,1-16,1-27	124741	Washer, Lock 1-7,1-15,1-25
55010	Screw, Shoulder (10-32) 1-5	98203	Gear (144T) 1-10	125006	Screw (10-32 x 5/8 Flat) 1-10,1-27
70073	Nut (3-48 Hex) 1-22,1-28	98209	Pinion (10T) 1-5	125011	Washer, Flat 1-13,1-22
70314	Washer, Flat 1-3,1-5,1-6,1-7,1-13,1-15,1-16,1-26,1-27	98222	Shaft, Clutch 1-5	125015	Washer, Flat 1-5,1-16,1-17,1-26
70497	Nut (5/16-32 Hex) 1-5	98223	Cam, Stop 1-5	125120	Screw, Shoulder (6-40) 1-6
71840	Nut (7/16-32 Hex) 1-27	98725	Screw (6-40 x 3/8 Flat) 1-7,1-15,1-25	125181	Screw (2-56 x 3/8 Fil) 1-21
72088	Screw (6-40 x 1-1/16 Hex) 1-14,1-16	98832	Screw (4-40 x 11/16 Fil) 1-13	125218	Nut (1/4-32 Hex) 1-10,1-11,1-29
72468	Spring 1-4	99712	Screw (10-32 x 5/16 Hex) 1-4,1-5,1-6,1-16,1-17	125245	Spring 1-10
73175	Washer, Lock 1-7,1-15,1-25	99978	Connector, Plug (4 Pt) 1-24	125315	Washer, Insulating 1-23
74011	Screw, Shoulder (6-40) 1-20	100658	Connector, Plug (2Pt) 1-13,1-20	125802	Washer, Flat 1-28
74283	Washer, Spring 1-10,1-11,1-29	100831	Screw, Drive (#0 x 1/8) 1-26	126901	Plate, Inner 1-4
74728	Terminal, Contact 1-14	101633	Washer, Flat 1-19	126902	Plate, Outer 1-4
74754	Spring, Detent 1-14	101981	Nut, Thumb (6-40) 1-25	126912	Lever, Stop 1-6
		102017	Washer, Beveled 1-10,1-11	126914	Guide, Stop Lever 1-4
		102212	Plate, Inner Bearing 1-4	126915	Block 1-5
		102213	Plate, Outer Bearing 1-4	126916	Arm, Release 1-5
		102214	Screw (6-40 x 13/64 Flat) 1-4	126917	Block, Mounting 1-4
		102629	Spring, Detent 1-2,1-27	126918	Disk, Tape Reel 1-10
		104302	Pin 1-10	126920	Spring, Friction 1-10
		104444	Spacer 1-14	126924	Knob, Tape Reel 1-10
		104463	Screw (4-40 x 1/4 Hex) 1-28	128272	Pin 1-28
		110126	Washer, Lock 1-7,1-15,1-25	131301	Washer, Lock 1-6
		110434	Screw (4-40 x 3/16 Fil) 1-29	135038	Screw (6-40 x 9/16 Hex) 1-26
				139335	Connector, Plug (6 Pt) 1-14,1-23

NUMERICAL INDEX - SECTION 1 (CONTINUED)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
142970	Post 1-28	151827	Strap , Terminal 1-18	158963	Bracket, Rear 1-2
146205	Bearing, Left 1-27	151880	Nut (4-40 Hex) 1-15,1-24,1-25	158964	Bracket, Bearing 1-3,1-19,1-26
146212	Hub 1-29	151982	Lamp , Incandescent 1-20	158966	Plate, Bearing 1-3,1-5,1-16
146221	Screw (10-32 Spl) 1-29	152441	Washer, Flat 1-4,1-9	158967	Stud 1-4,1-16
146225	Collar 1-26	152893	Screw (4-40 x 1/4 Hex) 1-7,1-14,1-15,1-25,1-27,1-28	158968	Stud 1-4,1-16
146228	Reel, Tape 1-29	153442	Screw (10-32 x 1/2 Hex) 1-2,1-16,1-18,1-26	158969	Bracket 1-2
146236	Spacer 1-29	153484	Screw (6-32 x 1/4 Rd) 1-26	158972	Bracket 1-6
146240	Shaft, Tape Reel 1-29	153492	Connector, Plug (3 Pt) 1-7,1-15	158973	Depressor, Chad 1-4,1-16
146242	Core, Left Tape 1-29	153534	Washer, Flat 1-23	158974	Shaft 1-6
146243	Core, Right Tape 1-29	153537	Screw (6-40 x 9/32 Hex) 1-19,1-22,1-28	158975	Hub , Gear 1-6
146512	Post 1-27	153538	Screw (6-40 x 7/16 Hex) 1-3	158976	Block, Mounting 1-4
146547	Latch, Core 1-29	153577	Washer, Felt 1-6	158977	Block, Mounting 1-4
146967	Resistor (750 Ohm) 1-23	153631	Network , Spark Suppression 1-14	158978	Bracket 1-4
148128	Washer, Flat 1-29	153817	Screw (4-40 x 3/8 Hex) 1-28	158979	Pulley 1-6
148257	Terminal, Insulated 1-23	153819	Washer, Lock 1-22,1-26,1-28	158980	Bearing 1-6
148281	Cover, Rectifier W/Clip 1-23	153839	Screw (6-40 x 5/8 Hex) 1-3,1-16,1-17	158981	Gear (144T) 1-6
148282	Cover, Base Plate 1-23	153841	Screw (6-40 x 9/16 Hex) 1-16	158983	Bracket, Mounting 1-6
148284	Transformer 1-23	154406	Block, Terminal (10 Pt) 1-18,1-26,1-28	158984	Arm, Tape 1-5
150536	Spring 1-11	154452	Cover 1-18,1-26	158985	Arm, Tape 1-2
150873	Collar 1-11	155750	Sleeve, Insulating (3/32 ID x 1/2" Lg) 1-13,1-14,1-18,1-20,1-22,1-26,1-28	158986	Bracket, Clutch Bearing 1-4
150990	Washer, Felt 1-6	155751	Sleeve, Insulating (1/8 ID x 1" Lg) 1-14,1-18	158987	Bracket 1-2,1-26
151036	Screw, Shoulder (4-40) 1-24	155752	Sleeve, Insulating (5/64 ID x 1/2" Lg) 1-18,1-22	158988	Bracket, Mounting 1-4
151152	Screw (4-40 x 3/16 Hex) 1-3,1-7,1-15,1-24,1-25	155753	Sleeve, Insulating (1/8 ID x 1/2" Lg) 1-3,1-21,1-24	158989	Capacitor (20 Mfd) 1-2,1-18,1-26
151335	Stud 1-18,1-26	155754	Sleeve, Insulating (1/16 ID x 1/2" Lg) 1-26,1-28	158990	Bracket, Mounting 1-2
151346	Screw (6-40 x 3/8 Fil) 1-25,1-27	155755	Sleeve, Insulating (11/64 ID x 5/8" Lg) 1-3,1-27	158991	Capacitor (15 Mfd) 1-3
151442	Screw (6-40 x 1/2 Hex) 1-2,1-4,1-24	156226	Hub 1-16	158992	Bracket, Mounting 1-3
151540	Lampholder 1-20	156540	Screw, Eccentric (4-40) 1-25	158995	Bracket, Mounting 1-3
151574	Grommet , Rubber 1-20,1-23	156740	Screw (6-40 x 7/32 Hex) 1-26	158996	Stud 1-2,1-26
151606	Screw (10-32 x 1/4 Hex) 1-4	156747	Screw (6-40 x 9/32 Hex) 1-24	158997	Belt, Drive 1-6,1-16
151610	Washer, Flat 1-19	156768	Screw (8-32 x 9/32 Hex) 1-7,1-15,1-25	158998	Retainer , Speed Nut (1/4-20) 1-2
151626	Terminal 1-18,1-21,1-27	156877	Washer, Felt 1-16	158999	Post, Spring 1-4,1-16
151630	Screw (6-40 x 1/4 Hex) 1-2,1-3,1-4,1-10,1-14,1-15,1-16,1-18,1-19,1-20,1-22,1-25 to 1-28	157233	Screw (6-40 x 2-3/8 Flat) 1-23	159198	Retainer, Tape 1-10,1-29
151631	Screw (6-40 x 5/16 Hex) 1-2,1-4,1-6,1-7,1-8,1-15,1-16,1-17,1-19,1-20,1-21,1-25 to 1-28	158286	Transformer 1-20	159199	Gear (144T) 1-5
151632	Screw (6-40 x 3/8 Hex) 1-2,1-3,1-4,1-14,1-16,1-17,1-19,1-26	158542	Spring 1-26	159200**	Frame , Tape Handling 1-2
151637	Screw (4-40 x 1/4 Fil) 1-14	158601	Connector, Plug (14 Pt) 1-28	159201	Core 1-10
151639	Washer, Flat 1-16	158602	Connector, Receptacle (14 Pt) 1-26	159202**	Bin Assembly, Tape Storage 1-8
151657	Screw (6-40 x 1/4 Fil) 1-3,1-23	158640	Motor, 115V-AC 1-7,1-15,1-25	159203	Bracket, Connector Mounting 1-3
151658	Screw (6-40 x 5/16 Fil) 1-3,1-25,1-27	158643	Blade 1-7,1-15,1-25	159204	Connector, Plug (2Pt) 1-3,1-21
151659	Screw (6-40 x 1/2 Fil) 1-3,1-25	158720	Roller 1-2,1-27	159205	Strip 1-9
151660	Screw (6-40 x 7/8 Fil) 1-13,1-15,1-25	158759	Post, Spring 1-27	159206	Bracket 1-9
151685	Screw (4-40 x 5/16 Fil) 1-3,1-22	158952	Channel, Mounting 1-8	159207	Shaft 1-9
151692	Screw (6-40 x 3/16 Fil) 1-3,1-4,1-5,1-7,1-15,1-23,1-25	158955	Panel, Glass 1-7,1-8,1-15	159208	Strip 1-9
151693	Screw (6-40 x 9/16 Fil) 1-3,1-6	158957	Strip, Retaining 1-8	159209	Bail 1-9
151721	Screw (6-40 x 3/4 Hex) 1-15,1-19	158958	Pad, Felt 1-7,1-8,1-15	159210	Bail 1-9
151722	Screw (6-40 x 3/16 Hex) 1-2,1-13,1-22,1-26 to 1-28	158959	Liner 1-8	159211	Switch 1-3
151723	Screw (10-32 x 3/8 Hex) 1-3,1-9,1-27	158960	Bracket 1-7,1-8,1-15,1-25	159212	Shield, Switch 1-3
151724	Screw (10-32 x 5/8 Hex) 1-10	158962	Bracket, Front 1-2	159213	Bracket, Switch 1-3,1-14
151737	Screw (4-40 x 3/16 Hex) 1-13			159214	Bracket, Support 1-6

NUMERICAL INDEX - SECTION 1 (CONTINUED)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
159841	Wrench, Allen 1-22	170824	Stud 1-16,1-19	173715	Terminal, Plug Type 1-22,1-26,1-27
160191	Plate, Bearing 1-5	170825	Bearing 1-16,1-19	173718**	Bin Assembly, Tape Storage 1-15
160471	Shaft 1-10	170826	Bracket, Support 1-17	173766	Hub 1-7
160472	Hub 1-10, 1-11	170827	Bracket 1-17	174335	Tubing 1-7,1-15,1-25
160473	Block 1-10	170828	Bar 1-16,1-17	174336	Reservoir 1-16,1-19
160474	Stud, Eccentric 1-4,1-16	170829	Plate, Front 1-16	174337	Holder, Wick 1-16,1-19
160475	Stud 1-6	170830	Plate, Rear 1-17	174338	Wick 1-16,1-19
160478**	Cover, Oil Shield 1-12	170831	Guard 1-16	174340	Weight 1-16,1-19
160479	Grommet 1-12	170833	Bracket, Clutch Bearing 1-16	174396	Stripper 1-28
160482	Belt 1-7,1-15,1-25	170835	Reel Assembly, Tape 1-11	174472	Modification Kit 1-20
160483	Bearing, Nylon 1-7,1-15,1-25	170836	Bracket 1-17	174473	Bracket 1-20
160484	Bracket 1-7,1-15	170873	Core, Tape Reel 1-11	174474	Cable Assembly 1-20
160485**	Cover 1-7,1-15	170874	Bearing 1-11	174569	Modification Kit 1-21
160652	Separator 1-7	170875	Spacer 1-11	174570	Switch 1-21
160653	Hub 1-7	170876	Shaft 1-11	174571	Arm, Tape 1-21
160654	Window, Rear 1-7, 1-15	170877	Stud 1-11	174572	Bracket 1-21
160655	Shaft 1-7,1-15,1-25	170878**	Frame, Tape Handling 1-14	174576	Cable Assembly 1-18
160656	Hub 1-7,1-15,1-25	170880	Contact Assembly 1-14	174578	Cable Assembly 1-21
160757	Connector, Receptacle (3 Pt) 1-3	170881	Spring, Contact 1-14	174579	Cable Assembly 1-21
160758	Chain 1-7,1-15,1-25	170882	Spring, Contact 1-14	174581	Cable Assembly 1-22
160759	Liner 1-7	170887	Spring, Contact 1-14	174588	Actuator, Switch 1-21
160760	Guard, Tape 1-7,1-8	170979	Bracket 1-15,1-25	174626**	Bin Assembly, Tape Storage 1-22
160761	Channel, Mounting 1-7	170980**	Frame, Tape Bin 1-15	174627	Bracket 1-17
160762**	Frame, Tape Storage 1-7, 1-8	170984	Separator 1-15,1-25	174628	Plate, Connector 1-18
160763**	Bin Assembly, Tape Storage 1-7	170988	Cable Assembly 1-14	174629	Bracket, Plug 1-22
162725	Depressor, Chad 1-27	170995	Screw, Self-Tapping (#6) 1-15,1-22, 1-25,1-28	174652	Bracket, Base 1-22
163481	Bracket, Switch 1-3	170996	Bracket, Retaining 1-15,1-22,1-25, 1-28	174653	Bracket, Switch 1-22,1-28
163482	Bail, Winder Arm 1-3	170997	Bracket, Retaining 1-15,1-22,1-25, 1-28	174654	Bail 1-22
163486	Arm, Winder 1-3	170999	Box Assembly, Chad 1-15,1-22,1-25	174655	Shaft 1-22
163706	Separator Assembly 1-13	171166	Liner 1-15	174656	Switch 1-22
163750	Contact Assembly 1-13	171167	Channel, Mounting 1-15,1-25	174657	Stud 1-22,1-28
163759	Separator 1-13	171178	Spacer 1-16	174658	Spring 1-22,1-28
163761	Shaft 1-13	171179	Belt, Cord 1-16, 1-19	174695**	Holder, Card 1-26
163762	Arm, Sensing 1-13	171182	Reel, Tape 1-11	174806	Plate, Name (H/L) 1-26
163763	Spring 1-13	171186	Knob, Tape Reel 1-11, 1-29	174815	Modification Kit 1-23
163764	Bail, Mounting 1-13	171461	Capacitor (900 MFD) 1-23	174816	Cable Assembly 1-23
163981	Cable Assembly 1-3	171462	Resistor (450 Ohms) 1-23	174848	Pad, Felt 1-25
164596	Cable Assembly 1-13	171603	Resistor (1 Ohm) 1-23	174877	Plate, Name (L/H) 1-26
164598**	Bin Assembly, Tape Storage 1-7	171609	Diode 1-23	174936	Nut, Anchor (10-32) 1-22
165267	Screw, Self-Tapping (10-32) 1-22, 1-28	171610	Transformer 1-23	174937**	Frame, Tape Bin 1-22
170771	Plate 1-14	171644	Fuse (1-1/2 Amp) 1-23	174938**	Guard, Tape 1-22
170798	Gear (30T) 1-16	171651	Connector, Receptacle (6 Pt) 1-23	174939	Post, Spring 1-18
170800**	Bin Assembly, Tape Storage 1-15	171689	Spacer 1-16	174943	Channel, Mounting 1-22
170801	Hub 1-15,1-25	172005	Latch, Magnetic 1-26	174950**	Frame, Tape Handling 1-18
170807	Chute, Chad 1-15,1-22,1-25	172159	Insulator (1-10) 1-18, 1-26	174953	Window 1-22
170809	Cover, Tape Bin 1-15,1-25	172260	Bracket 1-14	174958	Bracket, Mounting 1-18,1-26
170811	Window 1-15, 1-22, 1-25, 1-28	172261	Cover 1-14	174973	Separator 1-22
170812	Box, Chad 1-15,1-22,1-25,1-28	172262	Bracket 1-14	176176	Modification Kit 1-19
170813	Pulley 1-16	172291	Screw, Shoulder (6-40) 1-16,1-19	176177	Plate, Front 1-19
170814	Pulley 1-16	172292	Plate, Inner Bearing 1-17,1-19	176178	Pulley 1-19
170816	Pulley 1-16	172293	Plate, Outer Bearing 1-16,1-19	176242	Plate, Nut (4-40) 1-15, 1-22, 1-25
170817	Lever 1-16,1-19	172294	Bushing 1-16	176402	Washer, Flat 1-7,1-15,1-25
170818	Rod 1-16,1-19	172681	Modification Kit 1-13	176423	Cable Assembly 1-3
170819	Plate, Bearing 1-16	173116	Pin 1-27	176644	Gear (80T) 1-11
170820	Plate, Mounting 1-16,1-19	173342	Bail 1-13	176645	Gear (19T) 1-16
170821	Guide 1-16	173578	Connector, Receptacle (50 Pt) 1-18	177035	Modification Kit 1-24
170822	Bracket 1-16	173579	Connector, Plug (50 Pt) 1-27	177036	Bracket, Connector 1-24
170823	Shaft 1-16			177038	Bracket, Switch Plate 1-24
				177039	Plate, Switch 1-24
				177040	Actuator, Spring 1-24

NUMERICAL INDEX - SECTION 1 (CONTINUED)

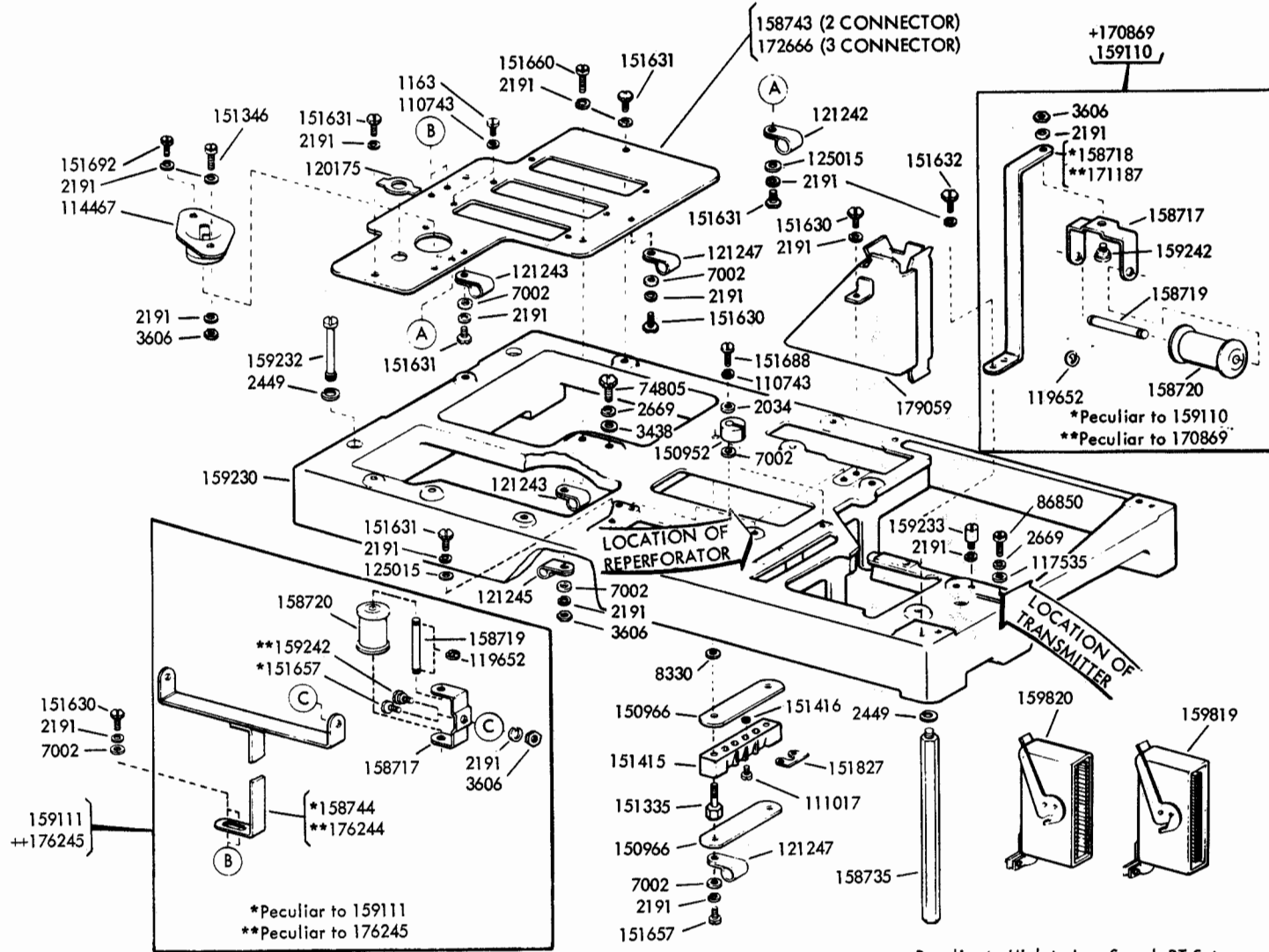
Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
177041	Cable Assembly 1-24	190324	Latch Assembly, Spring 1-27	190559	Window, Plexiglass 1-28
177042	Cable Assembly 1-24	190327**	Bin, Tape Storage 1-22	190561	Frame, Tape Storage 1-28
177043	Switch, Sensitive 1-24	190328**	Bin Assembly, Tape Storage 1-22	190581	Chute, Chad 1-28
177872	Roller 1-26	190329	Cable Assembly 1-28	190584	Post 1-26
178234**	Bin Assembly, Tape Storage 1-25	190330	Cable Assembly 1-26	190585	Bracket, Roller Mounting 1-26
178235	Panel, Front 1-25	190486	Switch 1-26	190588	Bracket 1-26
178236	Lever, Arm 1-25	190491	Spacer 1-26	190589	Post, Spring 1-27
178237	Bracket, Mounting 1-25	190521	Bracket, Front Mounting 1-26	190590	Plate, Right Bearing 1-27
178238	Bracket, Switch 1-25	190522	Pulley, "V" Belt 1-27	190591	Plate, Left Bearing 1-26
178239	Switch 1-25	190524	Hub 1-27	190593	Post, Spring 1-27
178240	Stud 1-25	190526	Post 1-27	190596	Bin Assembly 1-28
178241	Panel, Rear 1-25	190527	Lever 1-27	190601	Frame, Tape Handling 1-26
178242	Bracket 1-25	190528	Gear (34T) 1-27	190603	Belt "V" 1-27
178243**	Cover 1-25	190529	Gear (41T) 1-27	190604	Roller, Spring 1-27
178247**	Frame, Tape Bin 1-25	190535	Shaft w/Bearing and Gear 2-23	190605	Roller, Spring 1-27
178249	Liner 1-25	190536	Bearing, Right 1-27	190608	Bracket, Mounting 1-28
179176	Liner 1-7	190537	Bail 1-27	190609	Bracket, Bail Mounting 1-28
179177	Channel, Mounting 1-7	190539	Shaft 1-27	190610	Shaft 1-28
179178**	Frame, Tape Storage 1-7	190541	Post, Tape Guide 1-26	190611	Bail 1-28
179181**	Bin Assembly, Tape Storage 1-7	190542	Arm, Tape 1-27	190612	Switch 1-28
179204	Bracket 1-19	190543	Lever 1-27	190613	Bracket, Connector Mounting 1-26
179206	Bracket 1-19	190544	Post 1-27	190630	Post 1-27
179208	Pulley 1-19	190545	Guide, Tape 1-27	190636	Strap 1-28
179209	Gear (19T) 1-19	190546	Bracket 1-27	190637	Post 1-27
179211	Gear (80T) 1-11,1-19	190547	Bail, Latch 1-27	192176	Terminal, Plug Type 1-27
179381**	Guard, Gear 1-12	190548	Post, Latch Bail 1-27	193230	Modification Kit to Provide 48V, Power Supply 1-23
179395	Rod Assembly 1-19	190550	Core 1-29	193661	Reservoir 1-19
179500	Plate 1-20	190551	Arm, Brake 1-27	193662	Holder, Wick 1-19
179746	Modification Kit to Provide Molded Pulley And Gear For High Speed Tape Handling Stands 1-11,1-19	190552	Collar 1-27	193663	Wick 1-19
190311	Cable Assembly 1-27	190553	Post, Contact Operating 1-27	193940	Modification Kit to Provide a Large Capacity Oil Reservoir 1-19
190322	Plate 1-18	190554	Bracket, Contact Mounting 1-26		
190323	Cable Assembly 1-18,1-27	190555	Bracket 1-27		
		190556	Bracket 1-28		
		190557	Guide, Tape 1-28		
		190558	Channel, Window 1-28		



SECTION 2

REPERFORATOR TRANSMITTER BASE

FIGURE 2-1. BASE



+Peculiar to High to Low Speeds RT Sets.
+Peculiar to Units having Tape Reel Mounted on Side of Base.

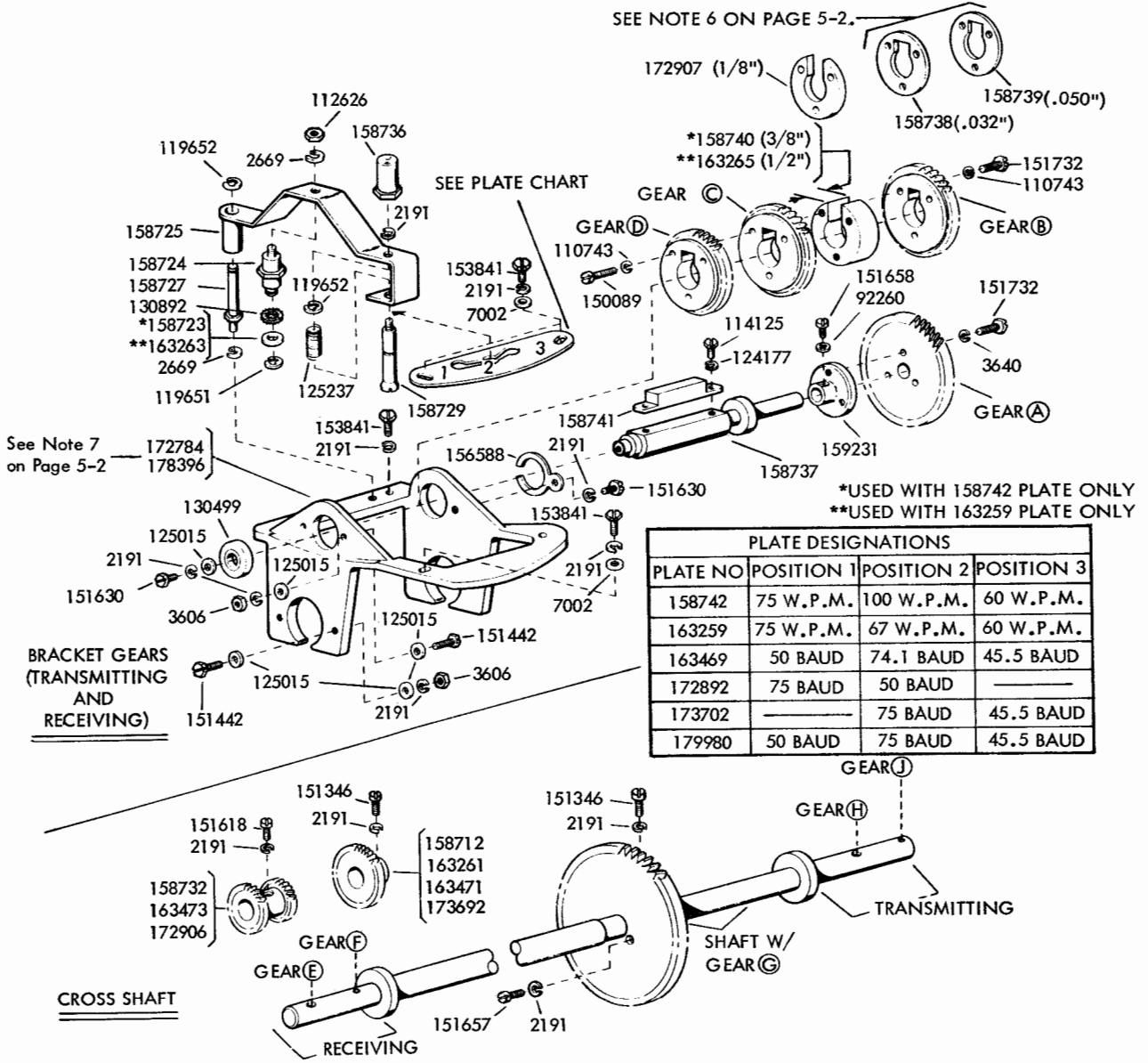
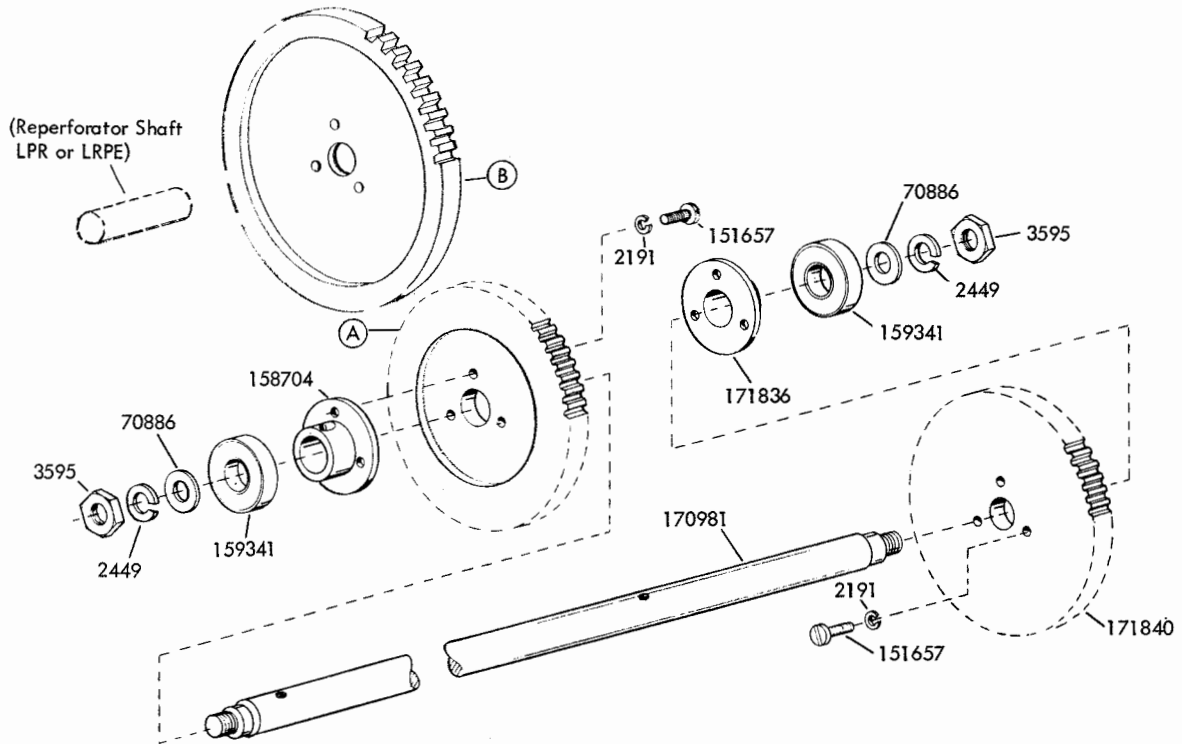


PLATE DESIGNATIONS			
PLATE NO	POSITION 1	POSITION 2	POSITION 3
158742	75 W.P.M.	100 W.P.M.	60 W.P.M.
163259	75 W.P.M.	67 W.P.M.	60 W.P.M.
163469	50 BAUD	74.1 BAUD	45.5 BAUD
172892	75 BAUD	50 BAUD	—
173702	—	75 BAUD	45.5 BAUD
179980	50 BAUD	75 BAUD	45.5 BAUD

VARIABLE SPEED GEAR CHART											
FUNCTION	TRANS	REC	TRANS	REC	REC	TRANS	TRANS	REC	REC	REC	TRANS
UNIT CODE	7.42	7.42	7.42	7.42	7.42	7.42	7.50	7.42	7.00	7.00	7.00
W.P.M.	60-75-100		60-67-75		60-65-100		66-100	60-75-100	60-100	60-67-106	
BAUD	45.5-56.8-74.2		45.5-50-56.8		45.5-50-74.2		50-75	45.5-56.8-74.2	45.5-75	45.5-50-75	
GEAR A	158703	158700	158703	158700	163475	158703	172628	158700	163475	163475	158703
GEAR B	158716	158716	163262	163262	163470	163470	158716	158716	173693	173693	173693
GEAR C	158733	158733	158733	158733	163474	163474	+	158733	163474	163474	163474
GEAR D	158734	158734	163258	163258	163472	163472	172905	158734	—	163472	163472
GEAR E	—	158732	—	158732	163473	—	—	158732	163473	163473	—
GEAR F	—	158712	—	163261	163471	—	—	158712	173692	173692	—
SHAFT W/ GEAR C	158713	158713	163357	163357	158713	158713	158713	172871	160658	158713	158713
GEAR H	158732	—	158732	—	—	163473	172906	—	—	—	163473
GEAR J	158712	—	163261	—	—	163471	158712	—	—	—	173692

+See Note 5 on Page 5-2.

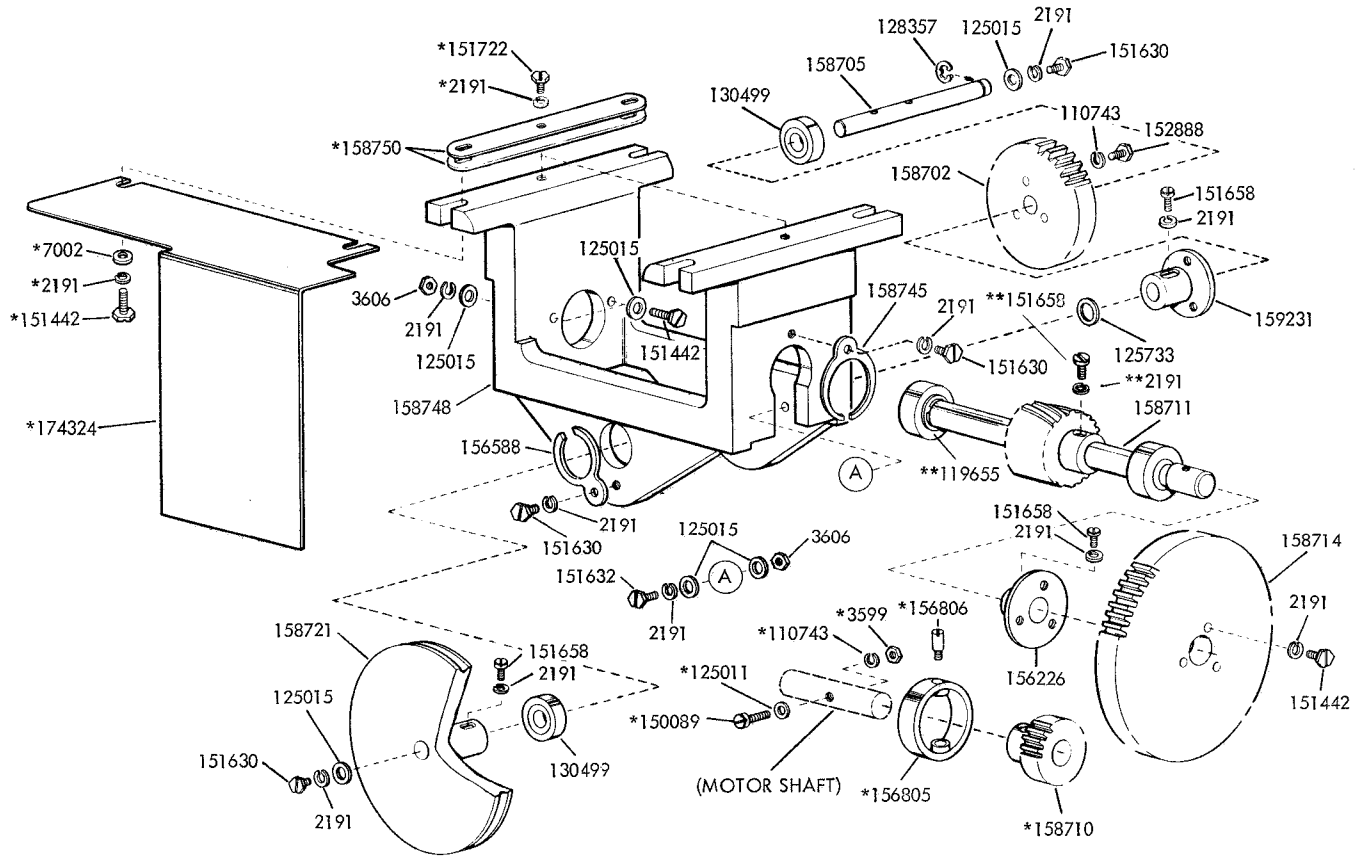
FIGURE 2-2. VARIABLE SPEED GEAR MECHANISMS



INTERCHANGEABLE GEAR SETS FOR L/H RT SETS				
		Gear Sets	Gear "A"	Gear "B"
Motor Speeds	3600 RPM	171695 (60 WPM)	170767	170768
		171696 (75 WPM)	170871	170872
		171697 (100 WPM)	170769	170770
3000 RPM		146953 (60 WPM)	146962	146963
		146954 (75 WPM)	146960	146961
		146951 (100 WPM)	146964	146965

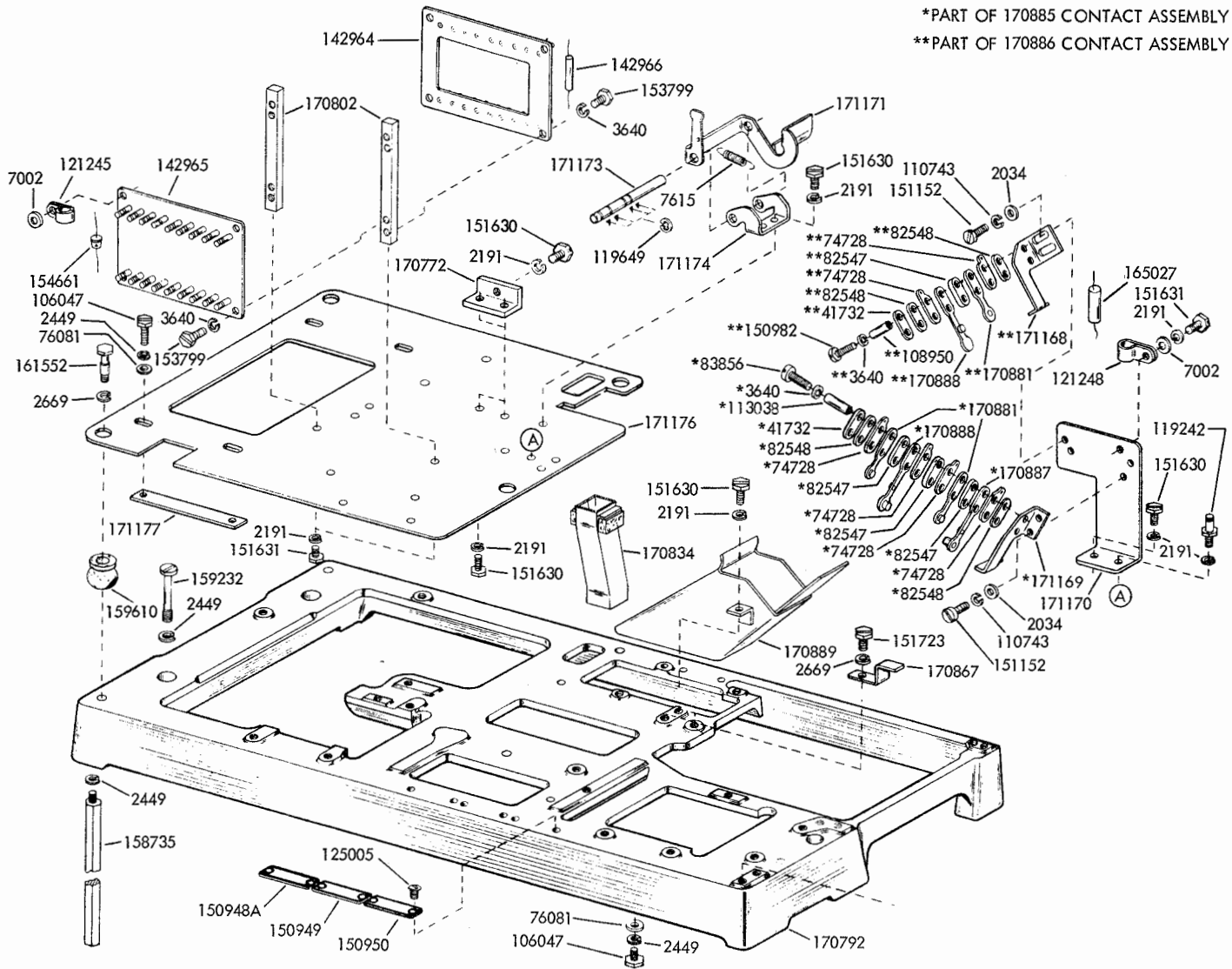
FIGURE 2-4. INTERCHANGEABLE CROSS SHAFT GEAR SETS

FIGURE 2-5. 159104 TAPE WINDER DRIVE BRACKET ASSEMBLY (200 WPM MAXIMUM)



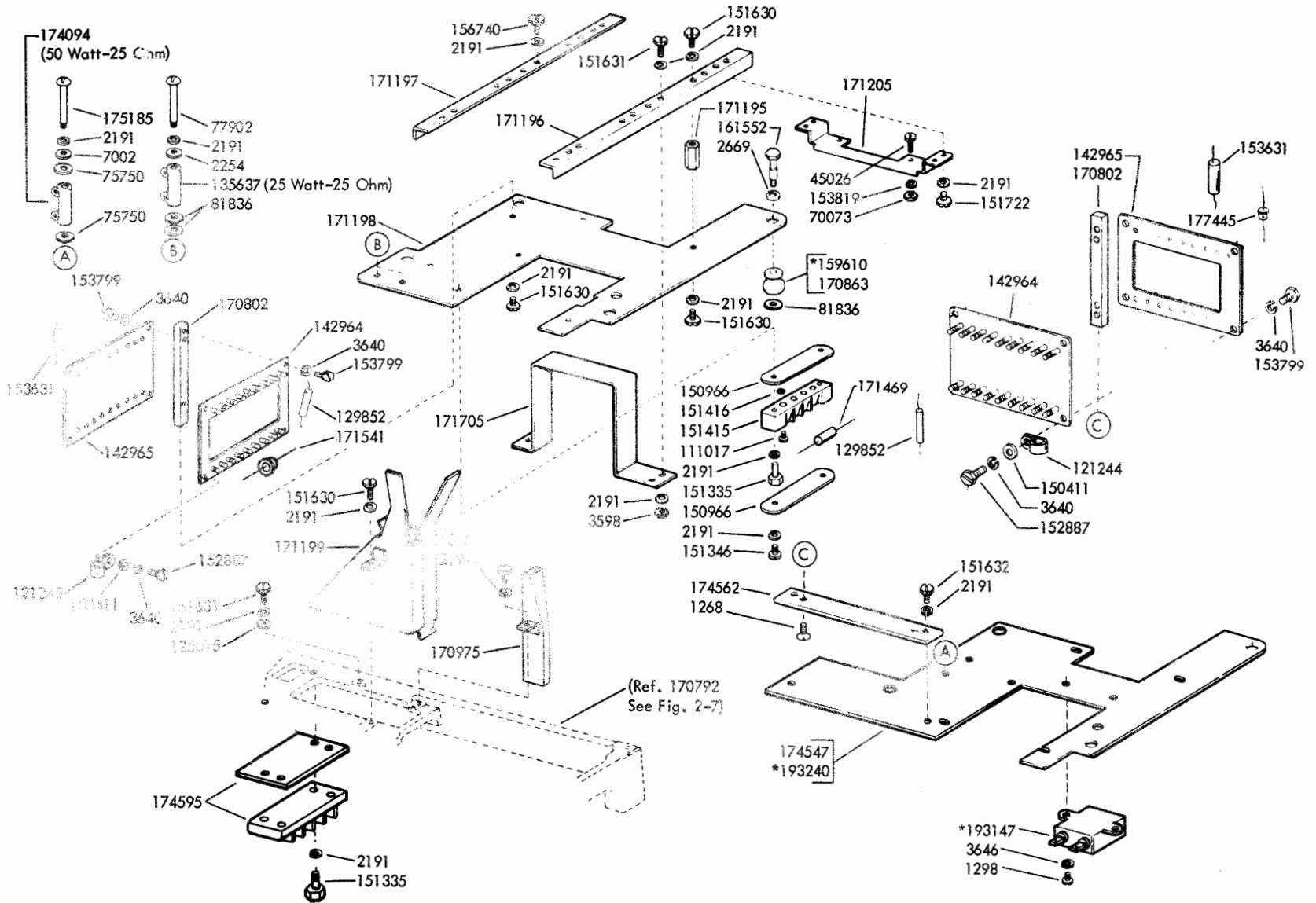
*NOT PART OF 159104 ASSEMBLY
 **Part of 158711

FIGURE 2-7. BASE (HIGH SPEED)



*PART OF 170885 CONTACT ASSEMBLY
 **PART OF 170886 CONTACT ASSEMBLY

FIGURE 2-8. HIGH SPEED TAPE READER (CX) MOUNTING PARTS



*The 193240 Plate is needed to mount the 193147 capacitor.

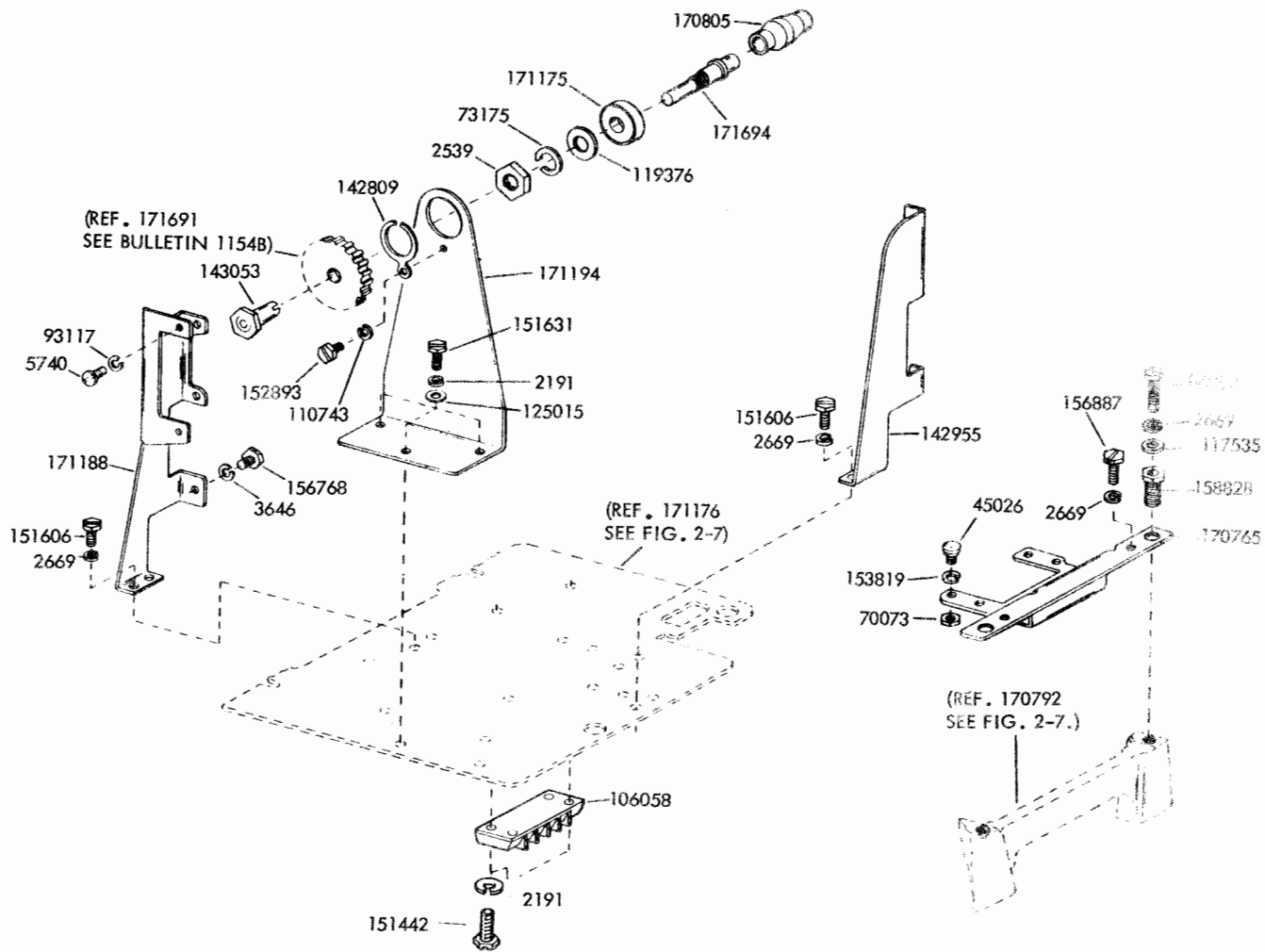
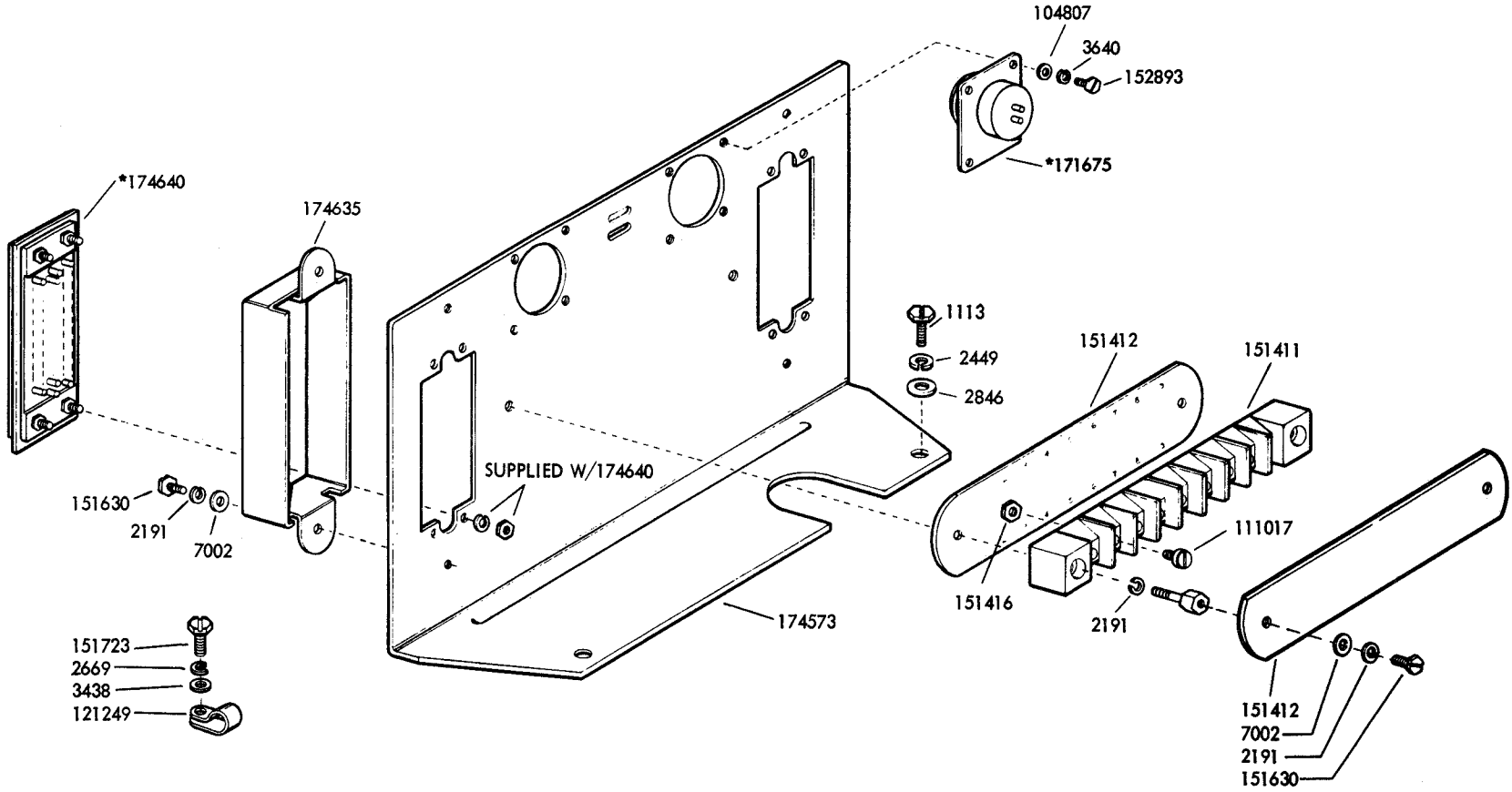


FIGURE 2-9. HIGH SPEED TAPE PUNCH (BRPE) MOUNTING DRIVE PARTS

FIGURE 2-10. CONNECTOR PLATE ASSEMBLY



*PART OF CABLE ASSEMBLY
(SEE CHART ON PAGE 2-19)

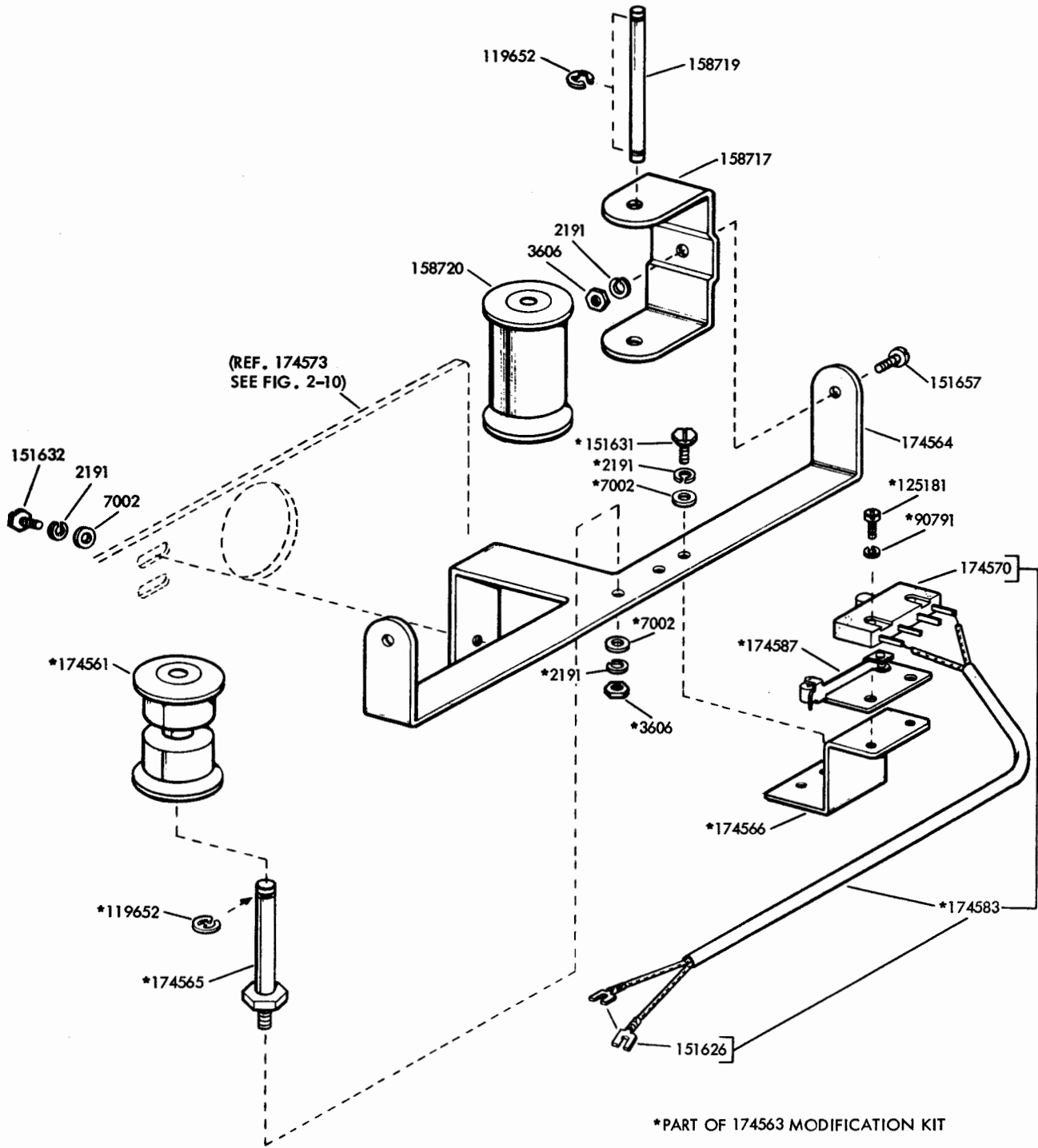


FIGURE 2-11. TAPE GUIDE AND TAPE-OUT ASSEMBLY

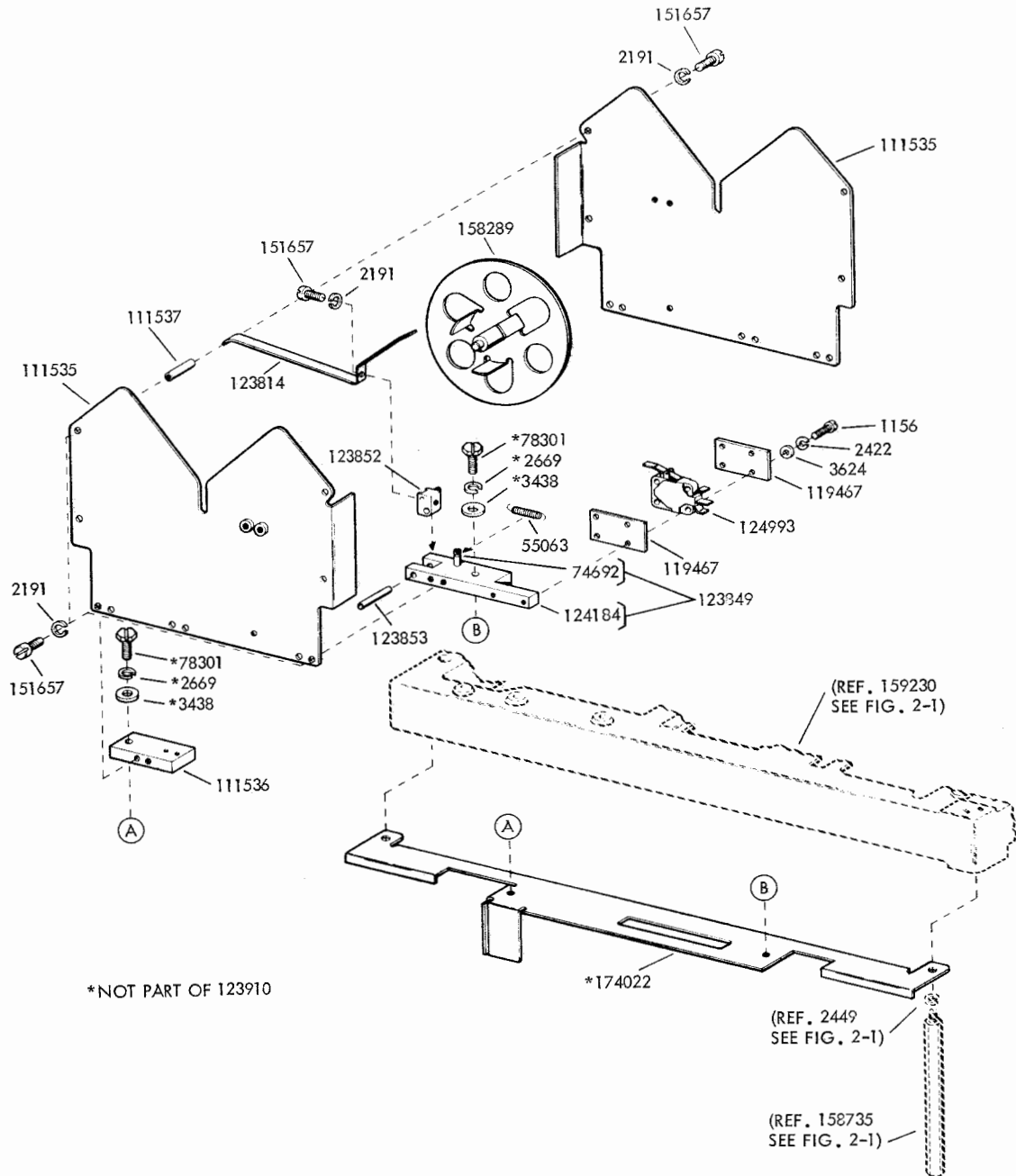


FIGURE 2-12. 123910 TAPE REEL CONTAINER

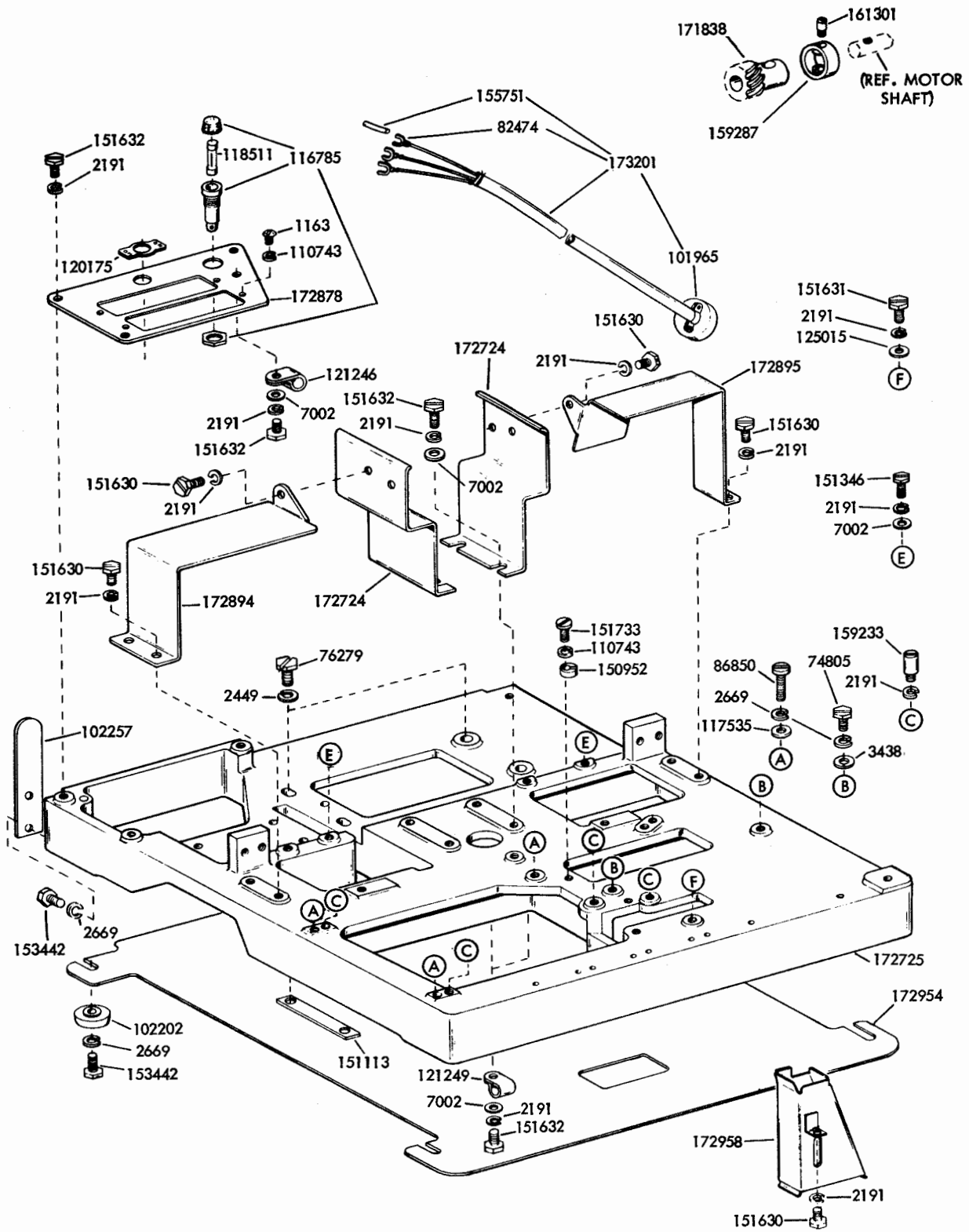


FIGURE 2-13. BASE (AC 205** CABINET APPLICATION)

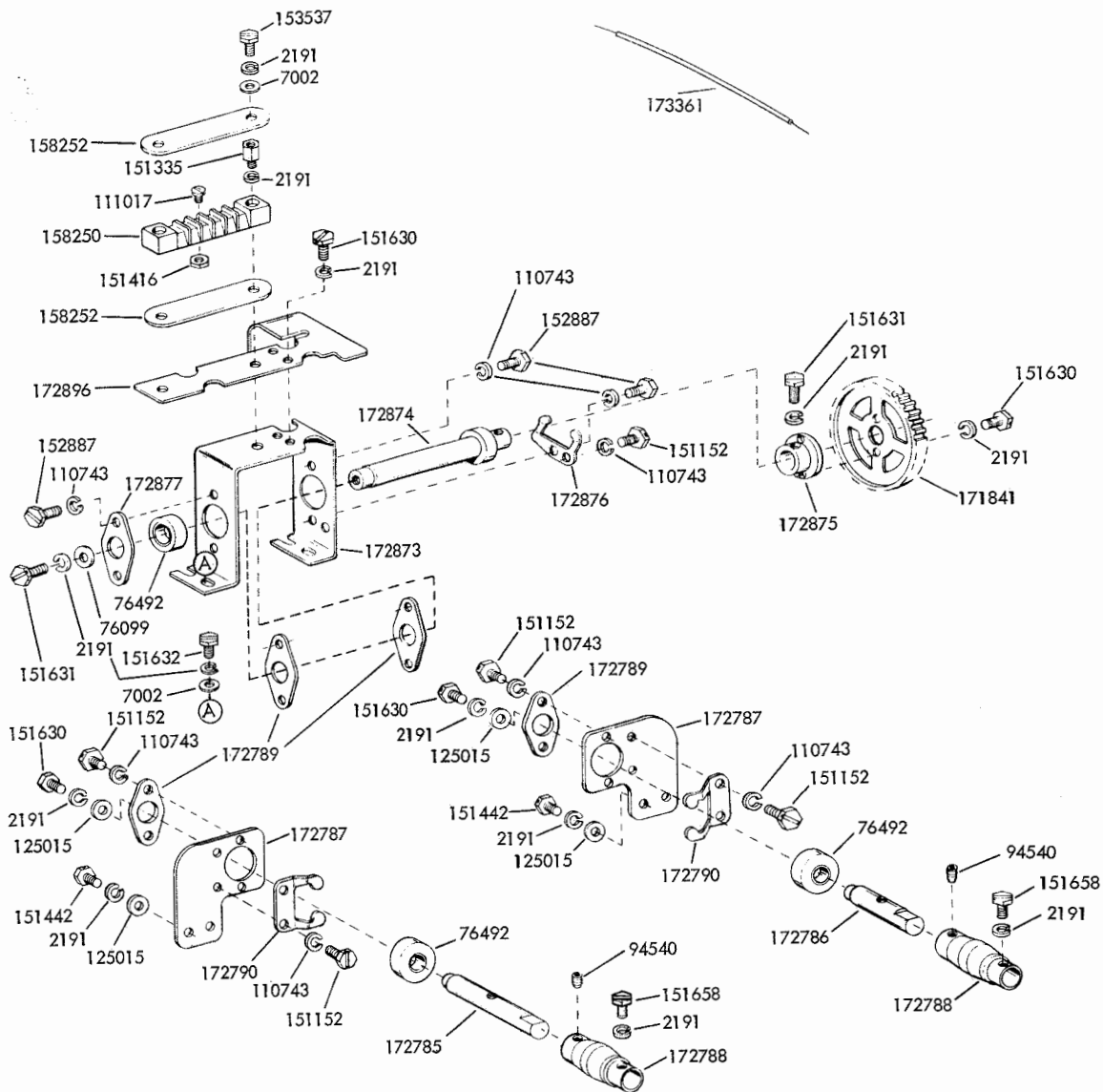


FIGURE 2-14. INTERMEDIATE SHAFT AND GEARS

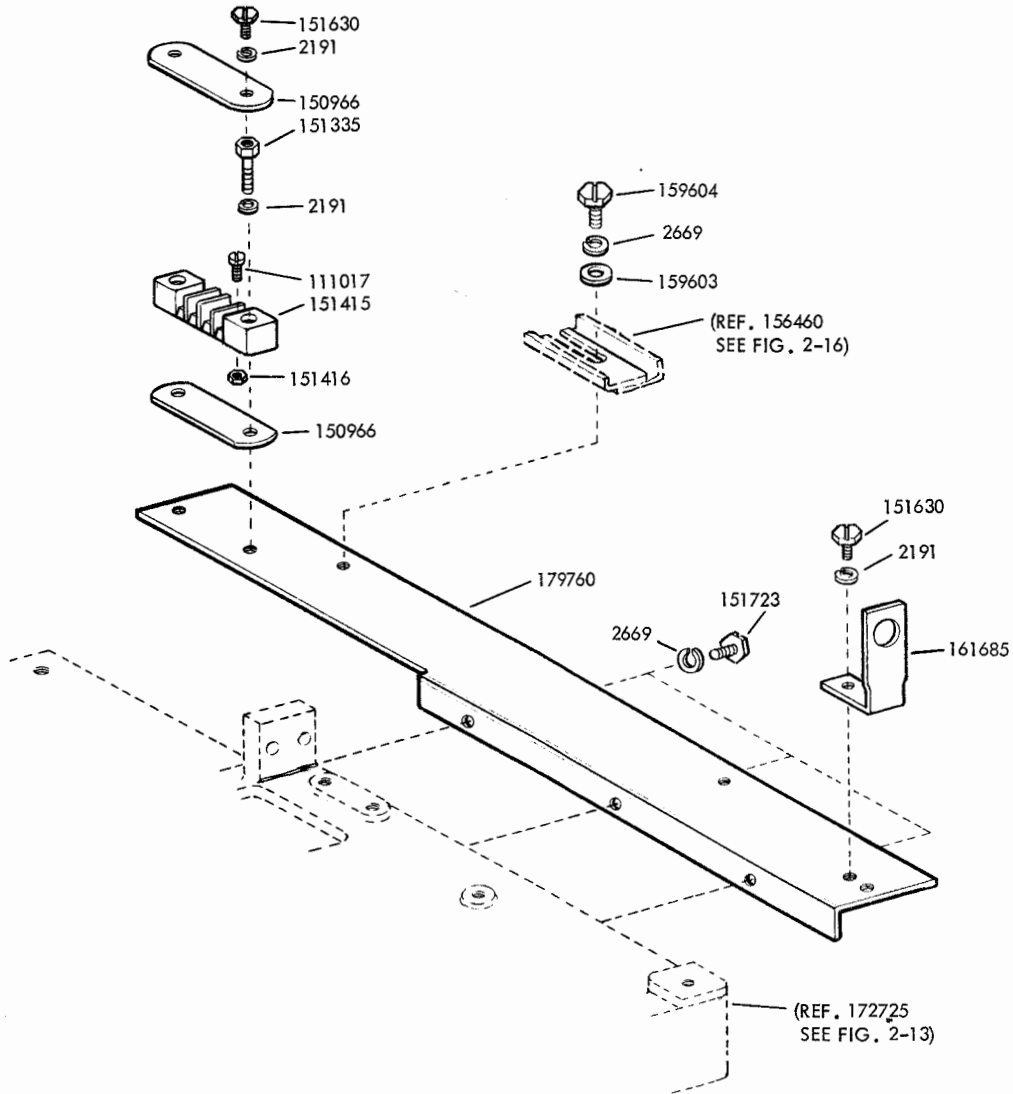


FIGURE 2-15. TAPE CONTAINER BRACKET AND TERMINAL BLOCK

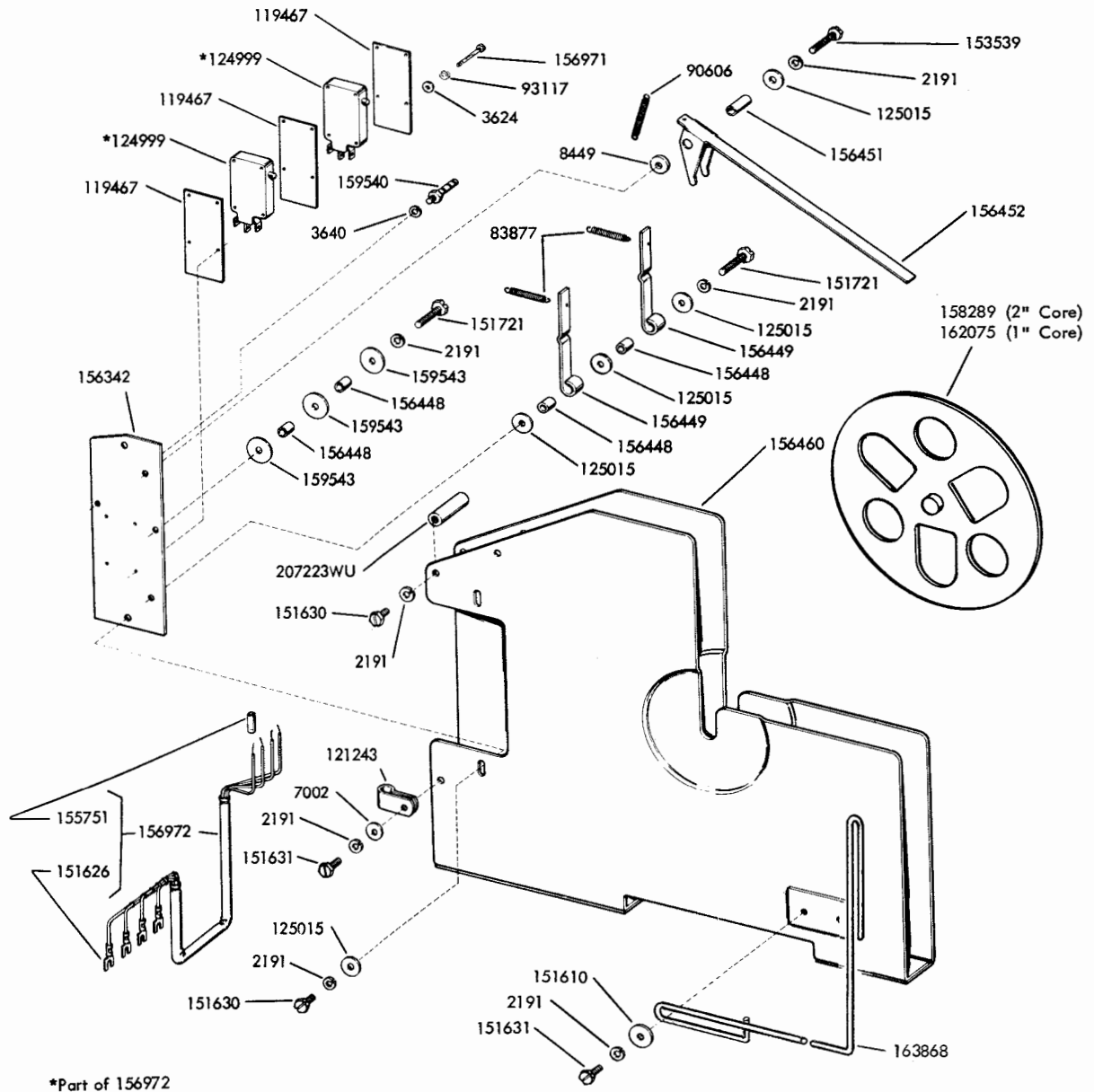
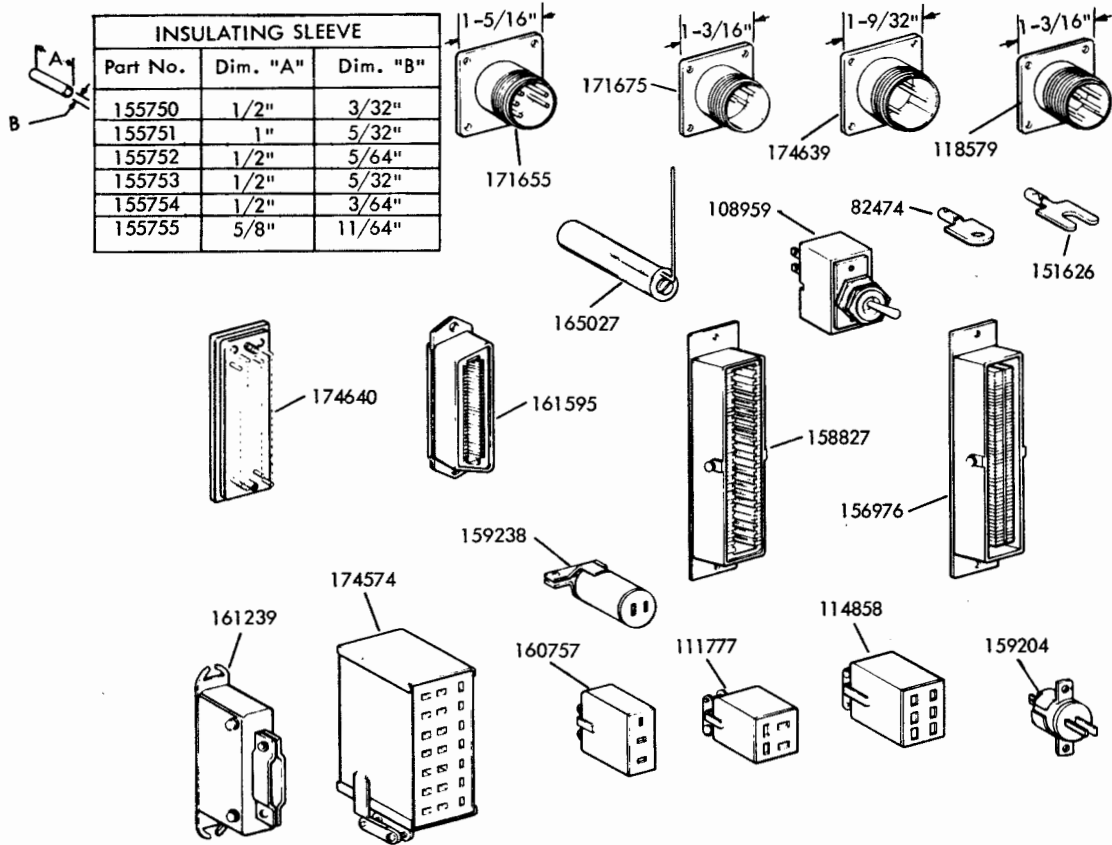


FIGURE 2-16. TAPE CONTAINER ASSEMBLY



CABLE CHART						
Teletype Code	Cable Assembly	Plug Connector	Switch	Terminal	Insulating Sleeve	Receptacle Connector
LRXB1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 22	159237		108959	82474 151626	155750	159238
LRXB10 LRXB12	163480	156976 161239			155750 155752	111777
LRXB6	163980	156976 161239			155750 155752 155753 155755	111777
LRXB8 25, 31, 32	170797			151626		
LRXB9 LRXB23	170985	156976 161239				
LRXB9	170986					161595 158827
LRXB9 LRXB23	170987					118579 171655
LRXB8 LRXB9	170989			151626		160757
LRXB8	170998	156976				161595

FIGURE 2-17. CABLE CHART

CABLE CHART (Cont.)						
Teletype Code	Cable Assembly	Plug Connector	Switch	Terminal	Insulating Sleeve	Receptacle Connector
LRXB8	172108					171655
LRXB8	172110	161239				158827
LRXB13 LRXB15 LRXB16	172664	161239 156971		165027	155752 155750	111777
LRXB13 LRXB15 LRXB16	172665		108959	151626 82474	155750	159238
LRXB14	172987	156976 161239			155750	
LRXB14	172988			151626	155751	
LRXB17 LRXB27	173469	172276 156976 171951 161239			155750 155752 155753	111777
LRXB17 LRXB27	173761		108959	82474 151626		159238
LRXB22	174023	159204			155753	
LRXB20 LRXB25 LRXB21	174525			151626	155750	171675 174639
LRXB31, 32	174585			151626	155750	171675 174639
LRXB20 , 21, 25	174586			151626	155752	114858
LRXB20, 26	174590				155754	174640 161595
LRXB21 LRXB25	174591	161239		151626	155753 155754	174640 174574
LRXB20	174592	161239		151626	155753 155754	174640 174574
	174594			151626	155754	174640 161595
LRXB23	178230			151626		114858
LRXB23	178246					
LRXB24	179944		108959		155752	
LRXB24	193640	161239 156976			155750 155754	
LRXB26	190497			82474		174640
LRXB31	190314	161239		151626	155754	174640
LRXB32	197567	161239		151626	155754	174640

FIGURE 2-18. CABLE CHART (CONTINUED)

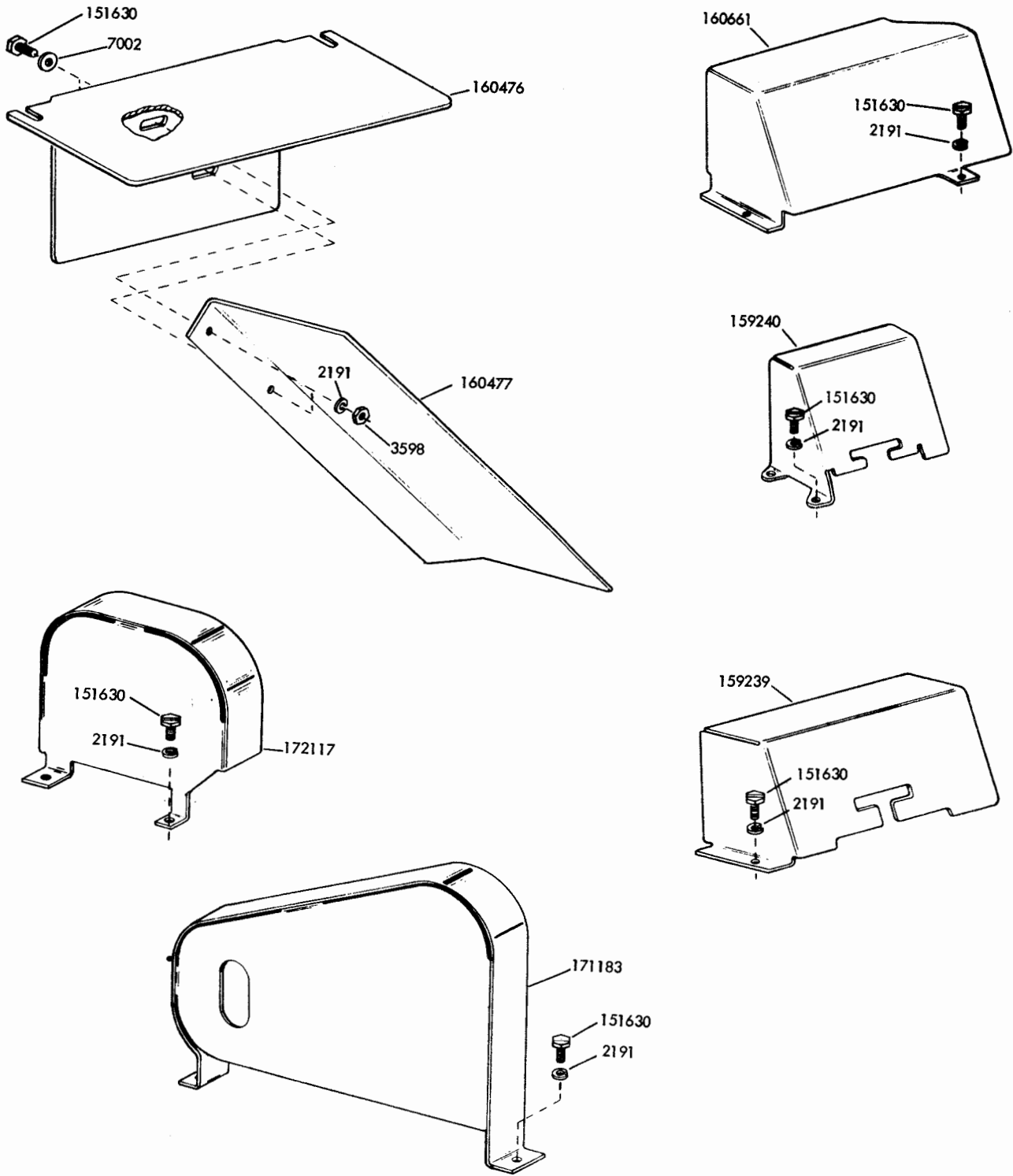


FIGURE 2-19. COVERS

FIGURE 2-20. 174558 MODIFICATION KIT TO PROVIDE TAPE-OUT CONTACTS AHEAD OF REPERFORATOR USED ON THE H/L RT SET

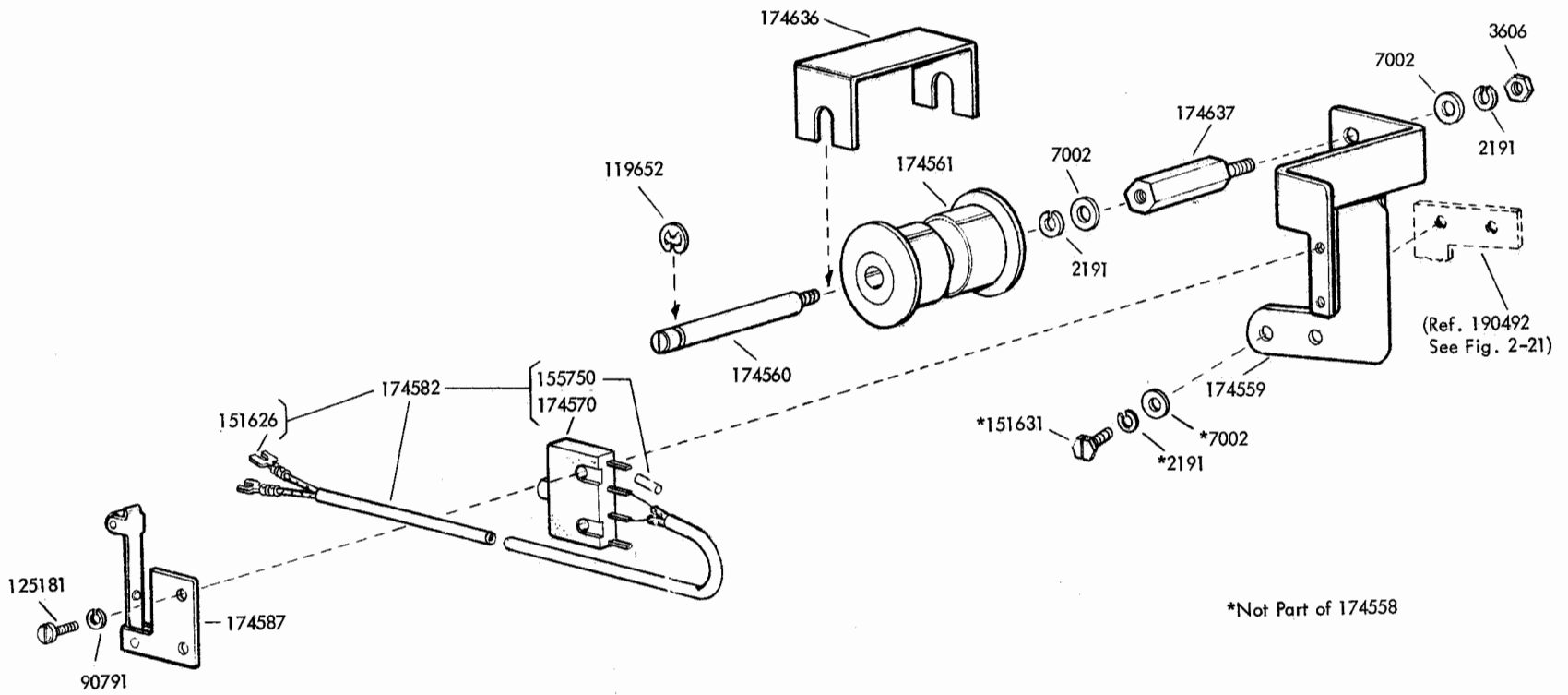
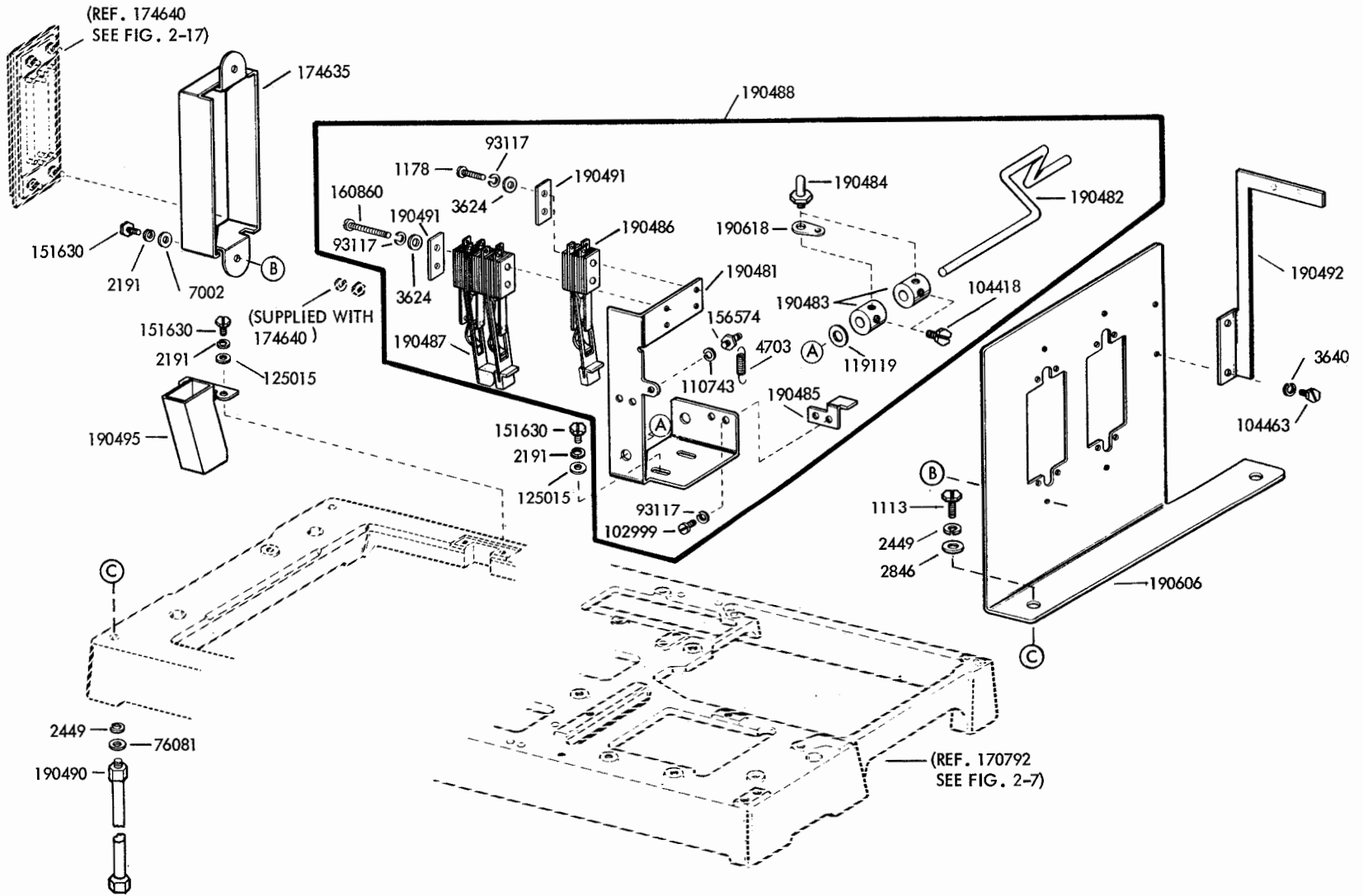
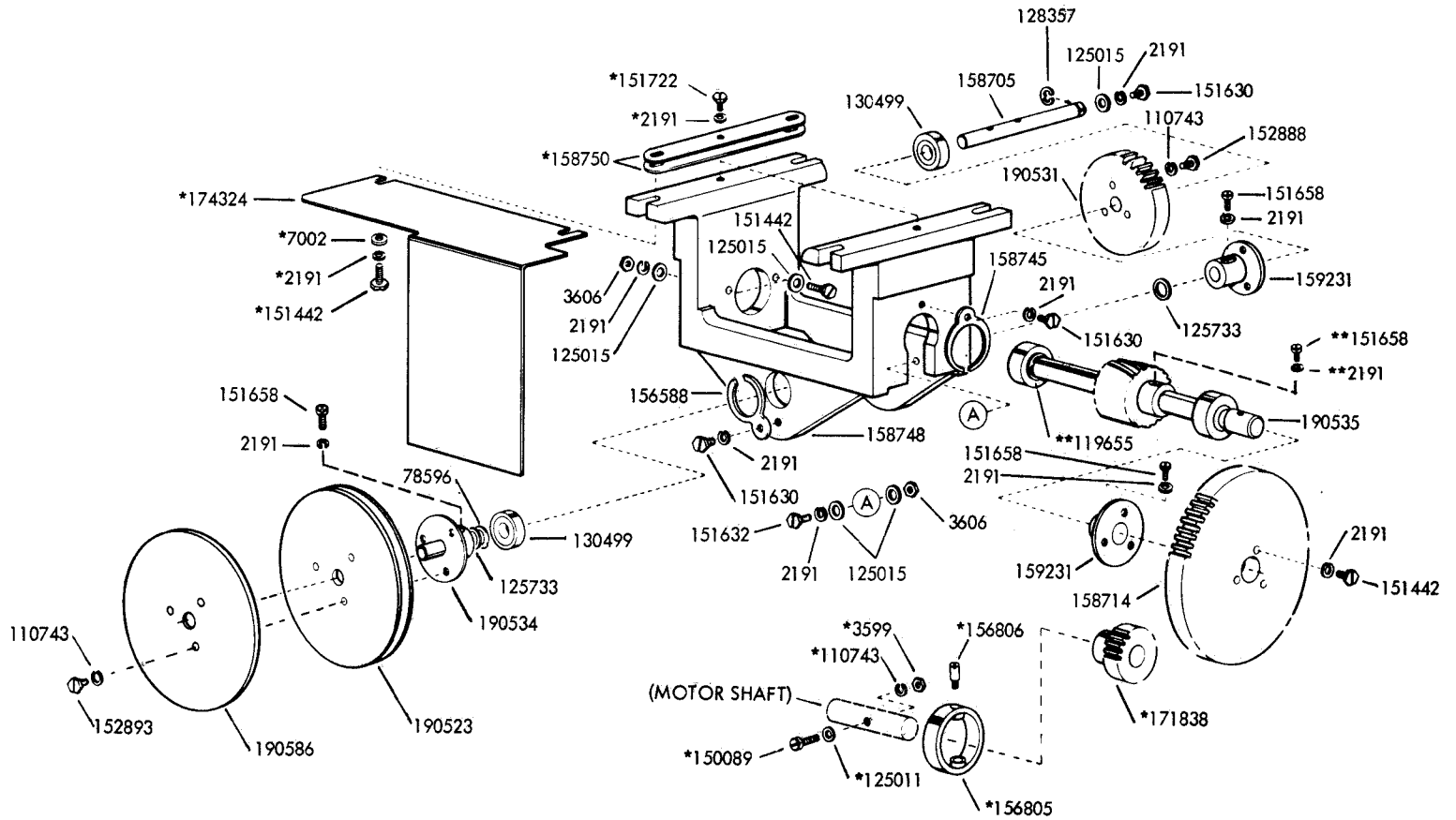


FIGURE 2-21. BASE (DRPE MOUNTING)



11688

FIGURE 2-22. 190540 TAPE WINDER DRIVE BRACKET ASSEMBLY (2000 WPM MAXIMUM)



*NOT PART OF 190540 ASSEMBLY
**PART OF 190535

NUMERICAL INDEX - SECTION 2

Part Numbers	Description and Page Number	Part Numbers	Description and Page Number	Part Numbers	Description and Page Number
1113	Screw (1/4-20 x 7/8 Hex) 2-11,2-23	92260	Washer, Lock 2-3,2-4	125181	Screw (2-56 x 3/8 Fil) 2-12,2-21
1156	Screw (2-56 x 9/16 Fil) 2-13	93117	Washer, Lock 2-10,2-17,2-22	125237	Spring 2-3,2-23
1163	Screw (4-40 x 3/16 Fil) 2-2,2-14	94540	Screw, Set (10-24) 2-15	125733	Washer, Flat 2-6,2-7
1178	Screw (2-56 x 7/16 Fil) 2-22	101965	Connector, Plug (3 Pt) 2-14	128357	Ring, Retaining 2-6,2-7,2-23
1268	Screw (6-40 x 5/16 Flat) 2-9	102202	Foot 2-14	129852	Resistor (2200 Ohm) 2-9
1298	Screw (8-32 x 1/4 Fil) 2-9	102257	Post 2-14	130499	Bearing, Ball 2-3,2-4,2-6,2-7,2-23
2034	Washer, Flat 2-2,2-8	102999	Screw (2-56 x 5/32 Fil) 2-22	135637	Resistor (25 Ohm) 2-9
2191	Washer, Lock 2-2 to 2-17, 2-20 to 2-23	104418	Screw (4-40 x 5/32 Hex) 2-22	142809	Clamp 2-10
2254	Washer, Flat 2-9	104463	Screw (4-40 x 1/4 Hex) 2-22	142955	Bracket, Left 2-10
2422	Washer, Lock 2-13	104807	Washer, Flat 2-11	142964	Board, Terminal 2-8,2-9,2-14
2449	Washer, Lock 2-2,2-5,2-8,2-11, 2-14,2-23	106047	Screw (1/4-32 x 1/2 Hex) 2-8	142965	Board, Terminal 2-8,2-9
2539	Nut (3/8-32 Hex) 2-10	106058	Block, Terminal 2-10	142966	Resistor (25 Ohm) 2-8
2669	Washer, Lock 2-3,2-8,2-9,2-10, 2-11,2-13,2-14,2-16	108950	Bushing 2-8	143053	Hub 2-10
2846	Washer, Flat 2-11,2-23	110743	Washer, Lock 2-2,2-3,2-4,2-6, 2-7,2-8,2-10,2-14,2-15,2-22,2-23	146951	Gear Set 2-5
3438	Washer, Flat 2-2,2-11,2-13,	111017	Screw (6-40 x 5/16 Fil) 2-2,2-9, 2-11,2-15,2-16	146953	Gear Set 2-5
3595	Nut (1/4-32 Hex) 2-5	111535	Panel, Tape Container 2-13	146954	Gear Set 2-5
3598	Nut (6-40 Hex) 2-9,2-20	111536	Block, Mounting 2-13	146960	Gear (29T) 2-5
3599	Nut (4-40 Hex) 2-6,2-7,2-23	111537	Post 2-13	146961	Gear (69T) 2-5
3606	Nut (6-40 Hex) 2-2,2-3,2-4,2-7, 2-8,2-12,2-21,2-23	111777	Connector, Receptacle (4 Pt) 2-18, 2-19	146962	Gear (42T) 2-5
3624	Washer, Flat 2-13,2-17,2-22	113038	Bushing 2-8	146963	Gear (80T) 2-5
3640	Washer, Lock 2-3,2-4,2-8,2-9, 2-11,2-17,2-22	114125	Screw (6-40 x 3/8 Hex) 2-3	146964	Gear (48T) 2-5
3646	Washer, Lock 2-9,2-10	114467	Connector, Plug (2 Pt) 2-2	146965	Gear (70T) 2-5
4703	Spring 2-22	114858	Connector, Receptacle 2-18,2-19	150089	Screw (4-40 x 1/2 Fil) 2-3,2-6,2-7, 2-23
5740	Screw (2-56 x 1/4 Fil) 2-10	116783	Holder, Fuse 2-14	150411	Washer, Flat 2-9
7002	Washer, Flat 2-2 to 2-4,2-6 to 2-9, 2-11,2-12,2-14 to 2-16,2-20 to 2-24	117535	Washer, Flat 2-2,2-10,2-14	150948A	Plate, Identification 2-8
7615	Spring 2-8	118511	Fuse (1/8 Amp) 2-14	150949	Plate, Identification (Serial) 2-8
8330	Washer, Flat 2-2,2-8	118579	Connector, Receptacle (5 Pt) 2-18	150950	Plate, Identification (Code) 2-8
8449	Spacer (.094") 2-17	119119	Washer, Flat 2-22	150952	Eccentric 2-2,2-14
41732	Plate, Clamp 2-8	119242	Post, Spring 2-8	150966	Insulator (1-4) 2-2,2-9,2-16
45026	Screw, Shoulder (3-48) 2-10	119376	Washer, Flat 2-10	150982	Screw (4-40 x 7/16 Fil) 2-8
55063	Spring 2-13	119467	Insulator (.032") 2-13,2-17	151113	Strip, Mounting 2-14
70073	Nut (3-48 Hex) 2-9,2-10	119649	Ring, Retaining 2-8	151152	Screw (4-40 x 3/16 Hex) 2-8,2-15
70886	Washer, Flat 2-5	119651	Ring, Retaining 2-3,2-10	151335	Stud 2-2,2-9,2-11,2-15,2-16
73175	Washer, Lock 2-10	119652	Ring, Retaining 2-2,2-3,2-8,2-21	151346	Screw (6-40 x 3/8 Fil) 2-2,2-3,2-4, 2-9,2-14
74692	Post, Spring 2-13	119655	Ring, Retaining 2-6,2-7,2-23	151411	Block, Terminal 2-11
74728	Terminal, Contact 2-8	120175	Plate (OFF-ON) 2-2,2-14	151412	Insulator (1-9) 2-11
74805	Screw (10-32 x 3/4 Hex) 2-2,2-14	121242	Clamp, Cable (1/8" ID) 2-2	151415	Block, Terminal 2-2,2-9,2-16
75750	Washer, Insulating 2-9	121243	Clamp, Cable (3/16" ID) 2-2,2-17	151416	Nut (6-40 Hex) 2-2,2-9,2-11,2-15, 2-16
76081	Washer, Flat 2-8,2-22	121244	Clamp, Cable (1/4 ID) 2-9,2-12	151442	Screw (6-40 x 1/2 Hex) 2-3,2-4, 2-6,2-7,2-10,2-15,2-23
76099	Washer, Flat 2-15	121245	Clamp, Cable (5/16" ID) 2-2,2-8 2-9,2-14	151606	Screw (10-32 x 1/4 Hex) 2-10
76279	Screw (1/4-32 x 5/8 Hex) 2-14	121246	Clamp, Cable (3/8" ID) 2-14	151610	Washer, Flat 2-17
76492	Bearing, Ball 2-15	121247	Clamp, Cable (7/16" ID) 2-2	151618	Screw (6-40 x 7/16 Fil) 2-3,2-4
77902	Screw (6-40 x 1-3/8 Rd) 2-9	121249	Clamp, Cable (1/2" ID) 2-8	151626	Terminal 2-9,2-12,2-17,2-18, 2-19,2-21
78301	Screw (10-32 x 5/8 Hex) 2-13	123814	Lever, Tape Out 2-13	151630	Screw (6-40 x 1/4 Hex) 2-2,2-3, 2-4,2-6,2-7,2-8,2-9,2-11,2-14, 2-15,2-16,2-17,2-20,2-22,2-23
78596	Washer, Friction 2-7,2-23	123849	Block Assembly, Mounting 2-13	151631	Screw (6-40 x 5/16 Hex) 2-2,2-8, 2-9,2-10,2-11,2-15,2-17,2-21
81835	Washer, Insulating 2-9	123852	Block Assembly 2-13	151632	Screw (6-40 x 3/8 Hex) 2-2,2-4, 2-6,2-7,2-8,2-9,2-11,2-14,2-15, 2-23
82474	Terminal 2-14,2-18,2-19	123853	Pin 2-13	151657	Screw (6-40 x 1/4 Fil) 2-2,2-3,2-4, 2-5,2-9,2-12,2-13
82547	Insulator (.094") 2-8	123910	Container Assembly 2-13	151658	Screw (6-40 x 5/16 Fil) 2-3,2-4, 2-6,2-7,2-15,2-23
82548	Insulator (.062") 2-8	124177	Washer, Lock 2-3		
83856	Screw (4-40 x 11/16 Rd) 2-8	124184	Block 2-13		
83877	Spring 2-17	124993	Switch, Sensitive 2-13		
86850	Screw (10-32 x 1-1/4 Fil) 2-2,2-10, 2-14	124999	Switch, Sensitive 2-17		
90606	Spring 2-17	125005	Screw (2-56 x 3/16 Rd) 2-8		
90791	Washer, Lock 2-12,2-21	125011	Washer, Flat 2-6,2-7,2-23		
		125015	Washer, Flat 2-2,2-3,2-4,2-6,2-7, 2-9,2-10,2-14,2-15,2-17,2-22,2-23		

NUMERICAL INDEX - SECTION 2 (CONTINUED)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
151660	Screw (6-40 x 7/8 Fil) 2-2	158710	Gear (14T) 2-6	160476	Cover 2-20
151688	Screw (4-40 x 5/8 Fil) 2-2	158711	Shaft w/Bearings and Gear 2-6	160477	Shield 2-20
151692	Screw (6-40 x 3/16 Fil) 2-2	158712	Gear (26T) 2-3, 2-4	160657	Bracket 2-4
151721	Screw (6-40 x 3/4 Hex) 2-17	158713	Shaft w/Bearings and Gear 2-3, 2-4, 2-10	160658	Shaft w/Bearings and Gear 2-3, 2-4
151722	Screw (6-40 x 3/16 Hex) 2-6, 2-7, 2-9, 2-23	158714	Gear (42T) 2-6, 2-23	160660	Gear (27T) 2-4, 2-6
151723	Screw (10-32 x 3/8 Hex) 2-8, 2-11, 2-16	158716	Gear (39T) 2-3, 2-4	160661	Cover 2-20
151732	Screw (4-40 x 11/32 Fil) 2-3, 2-4	158717	Bracket 2-2, 2-8, 2-12	160757	Connector, Receptacle (3 Pt) 2-18
151733	Screw (4-40 x 9/16 Fil) 2-14	158718	Bracket 2-2	160860	Screw (2-56 x 7/8 Fil) 2-22
151827	Strap, Terminal 2-2	158719	Shaft 2-2, 2-8, 2-12	161239	Connector, Plug (36 Pt) 2-18, 2-19
152887	Screw (4-40 x 1/2 Hex) 2-9, 2-15	158720	Roller 2-2, 2-8, 2-12	161301	Post 2-14
152888	Screw (4-40 x 7/16 Hex) 2-6, 2-7, 2-23	158721	Pulley 2-6	161552	Screw (10-32 Spl) 2-8, 2-9
152893	Screw (4-40 x 1/4 Hex) 2-10, 2-11, 2-23	158722	Hub 2-4	161595	Connector, Receptacle (36 Pt) 2-18, 2-19
153442	Screw (10-32 x 1/2 Hex) 2-14	158723	Roller 2-3	161685	Bracket, Switch 2-16
153537	Screw (6-40 x 9/32 Hex) 2-15	158724	Stud 2-3	162075	Reel, Tape 2-17
153539	Screw (6-40 x 11/16 Hex) 2-17	158725	Arm 2-3	163258	Gear (47T) 2-3
153631	Network, Spark Suppression 2-9	158727	Post 2-3	163259	Plate, Locating 2-3
153799	Screw (4-40 x 21/64 Hex) 2-8, 2-9	158728	Shaft w/Bearing 2-4	163261	Gear (22T) 2-3
153819	Washer, Lock 2-9, 2-10	158729	Stud 2-3	163263	Roller 2-3
153841	Screw (6-40 x 9/16 Hex) 2-3, 2-4	158732	Gear (18T & 24T) 2-3, 2-4	163265	Block 2-3
154661	Diode 2-8	158733	Gear (44T) 2-3, 2-4	163357	Shaft w/Bearings and Gear 2-3
155750	Sleeve, Insulating (3/32 ID x 1/2" Lg) 2-18, 2-19, 2-21	158734	Gear (47T) 2-3, 2-4	163469	Plate, Locating 2-3
155751	Sleeve, Insulating (1/8 ID x 1" Lg) 2-14, 2-17, 2-18, 2-19	158735	Post 2-2, 2-8	163470	Gear (34T) 2-3
155752	Sleeve, Insulating (5/64 ID x 1/2" Lg) 2-18, 2-19	158736	Nut, Cap (6-40) 2-3	163471	Gear (24T) 2-3
155753	Sleeve, Insulating (1/8 ID x 1/2" Lg) 2-18, 2-19	158737	Shaft w/Bearing 2-3	163472	Gear (42T) 2-3
155754	Sleeve, Insulating (1/16 ID x 1/2" Lg) 2-18, 2-19	158738	Spacer 2-3	163473	Gear (26T & 20T) 2-3
155755	Sleeve, Insulating (11/64 ID x 5/8" Lg) 2-18	158739	Disk 2-3	163474	Gear (60T) 2-3
156226	Hub 2-4, 2-6, 2-23	158740	Block 2-3	163475	Gear (34T) 2-3
156342	Plate 2-17	158741	Bar 2-3	163480	Cable Assembly 2-18
156448	Bushing 2-17	158742	Plate, Locating 2-3	163868	Guide, Tape 2-17
156449	Lever, Switch 2-17	158744	Arm 2-2	163980	Cable Assembly 2-18
156451	Bushing 2-17	158745	Clamp, Bearing 2-6, 2-7, 2-23	165027	Network, Spark Suppression 2-8, 2-18, 2-19
156452	Lever, Tape 2-17	158748	Bracket 2-6, 2-7, 2-23	170765	Bracket, Connector 2-10
156460	Panel 2-17	158750	Shim (.003") 2-6, 2-7, 2-23	170767	Gear (28T) 2-5
156574	Post, Spring 2-22	158827	Connector, Receptacle (32 Pt.) 2-18, 2-19	170768	Gear (80T) 2-5
156588	Ring, Retaining 2-3, 2-4, 2-6, 2-7, 2-23	158828	Bushing, Mounting 2-10	170769	Gear (32T) 2-5
156740	Screw (6-40 x 7/32 Hex) 2-9	159104	Bracket Assembly, Tape Winder Drive 2-6	170770	Gear (56T) 2-5
156768	Screw (8-32 x 9/32 Hex) 2-10	159110	Bracket Assembly, Front Tape 2-2	170772	Block 2-8
156805	Retainer, Pinion 2-6, 2-7, 2-23	159111	Bracket Assembly, Rear Tape 2-2	170792	Base 2-8
156806	Post 2-6, 2-7, 2-23	159204	Connector, Plug (2 Pt) 2-18, 2-19	170794	Gear (40T) 2-7
156887	Screw (10-32 x 9/16 Hex) 2-10	159230	Base 2-2	170795	Shaft w/Bearings and Gear 2-7
156971	Screw (2-56 x 3/4 Fil) 2-17, 2-19	159231	Hub, Gear 2-3, 2-4, 2-6, 2-7, 2-23	170797	Cable 2-18
156972	Cable Assembly 2-17	159232	Screw, Captive (1/4-20) 2-2, 2-8	170802	Post 2-8, 2-9
156976	Connector, Plug (32 Pt) 2-18, 2-19	159233	Stud 2-2, 2-14	170805	Coupling, Flexible 2-10
158250	Block, Terminal 2-15	159237	Cable Assembly 2-18	170806	Bracket Assembly 2-7
158252	Insulator (1-6) 2-15	159238	Connector, Receptacle (2 Pt) 2-18, 2-19	170815	Pulley 2-7
158289	Reel, Tape 2-13, 2-17	159239	Cover, Gear 2-20	170834	Chute, Chad 2-8
158700	Gear (30T) 2-3, 2-4	159240	Cover, Gear 2-20	170863	Mount, Vibration 2-9
158702	Gear (40T) 2-6	159242	Screw, Shoulder (6-40) 2-2, 2-8	170867	Bracket 2-8
158704	Hub 2-4	159287	Retainer, Pinion 2-14	170869	Bracket Assembly, Front Tape 2-2
158705	Shaft, Tape Winder 2-7, 2-23	159341	Bearing, Ball 2-5	170871	Gear (35T) 2-5
		159540	Post, Spring 2-17	170872	Gear (80T) 2-5
		159543	Washer, Flat 2-17	170881	Spring, Contact 2-8
		159603	Washer, Captive 2-16	170887	Spring, Contact 2-8
		159604	Screw (10-32 x 1/2 Hex) 2-16	170888	Spring, Contact 2-8
		159610	Mount, Vibration 2-8, 2-9	170889	Chute, Tape 2-8
		159819	Connector, Plug (32 Pt) 2-2	170891	Bracket 2-4
		159820	Connector, Receptacle (32 Pt) 2-2	170975	Chute, Chad 2-9
				170981	Shaft 2-5
				170985	Cable Assembly 2-18

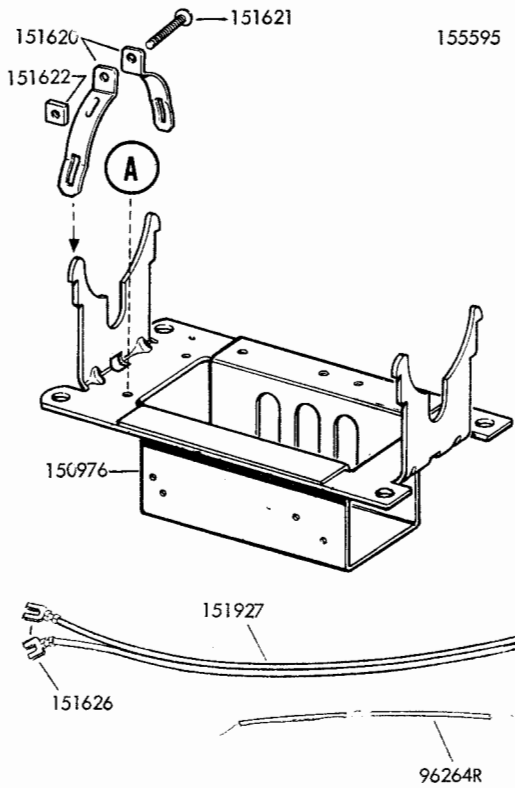
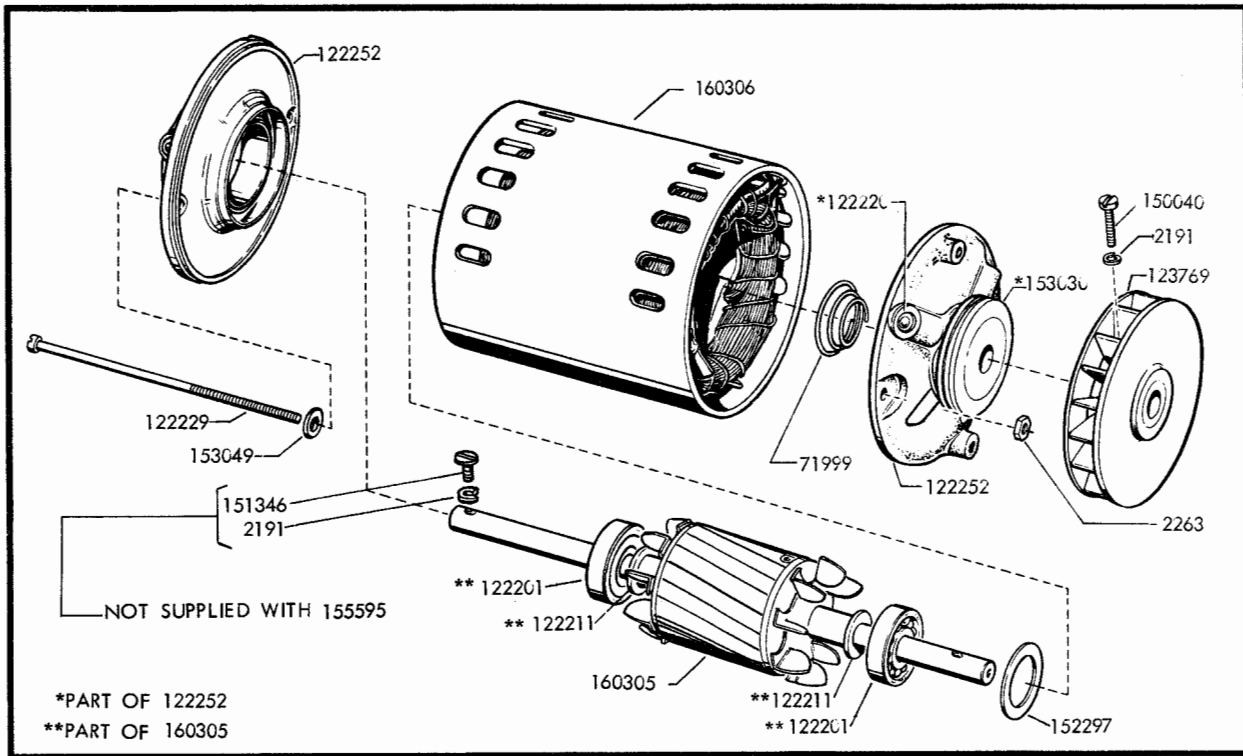
NUMERICAL INDEX - SECTION 2 (CONTINUED)

Part Numbers	Description and Page Number	Part Numbers	Description and Page Number	Part Numbers	Description and Page Number
170986	Cable Assembly 2-18	172788	Coupling 2-15	174586	Cable Assembly 2-19
170987	Cable Assembly 2-18	172789	Clamp, Bearing 2-15	174587	Actuator, Switch 2-21
170989	Cable Assembly 2-18	172790	Clamp, Bearing 2-15	174590	Cable Assembly 2-19
170990	Shaft w/Bearings and Gear 2-4	172871	Shaft w/Bearings and Gear 2-3	174591	Cable Assembly 2-19
170998	Cable Assembly 2-18	172873	Bracket 2-15	174592	Cable Assembly 2-19
171168	Bracket 2-8	172874	Shaft w/Bearing 2-15	174594	Cable Assembly 2-19
171169	Bracket 2-8	172875	Hub 2-15	174595	Block, Terminal 2-9
171170	Bracket 2-8	172876	Clamp 2-15	174635	Shield, Connector 2-11, 2-22
171171	Bail, Tape Depressor 2-8	172877	Clamp 2-15	174636	Bracket, Tape Guide 2-21
171173	Shaft 2-8	172878	Plate 2-14	174637	Spacer 2-21
171174	Bracket 2-8	172892	Plate, Locating 2-3	174639	Connector, Receptacle (3 Pt) 2-18
171175	Bearing, Ball 2-10	172894	Cover, Gear 2-14	174640	Connector, Receptacle (50 Pt) 2-11, 2-18, 2-19, 2-22
171176	Plate, Base 2-8	172895	Cover, Gear 2-14	175185	Screw (6-40 x 4-1/2 Rd) 2-9
171177	Plate, Nut 2-8	172896	Bracket 2-16	176244	Bracket 2-2
171183	Cover 2-20	172905	Gear (34T) 2-3, 2-4	176245	Tape Bracket Assembly 2-2
171187	Bracket 2-2	172906	Gear (34T) 2-3	177445	Diode 2-9
171188	Bracket 2-10	172907	Spacer 2-3	178230	Cable Assembly 2-19
171194	Bracket w/Bearing 2-10	172954	Plate, Base 2-14	178246	Cable 2-19
171195	Post 2-9	172958	Chute, Tape 2-14, 2-15	178396	Bracket 2-2, 2-4
171196	Rail, Left 2-9	172987	Cable Assembly 2-19	179059	Chute, Tape 2-2
171197	Rail, Right 2-9	172988	Cable w/Terminals 2-19	179760	Bracket 2-16
171198	Plate, Base 2-9	173201	Cable Assembly 2-14	179944	Cable Assembly 2-19
171199	Chute, Tape 2-9	173361	Jumper (5 1/2" Lg.) 2-15	179980	Plate, Locating 2-3
171205	Bracket, Connector Mounting 2-9	173469	Cable Assembly 2-19	190314	Cable Assembly 2-19
171469	Resistor (100 Ohm) 2-9	173692	Pinion (30 T) 2-3	190481	Bracket, Switch 2-22
171541	Diode 2-9	173693	Gear (42T) 2-3	190482	Arm, Tape 2-22
171655	Connector, Plug (5 Pt) 2-18, 2-19	173696	Gear (45T) 2-4	190483	Collar 2-22
171675	Connector, Plug (3 Pt) 2-11, 2-18, 2-19	173702	Plate, Locating 2-3	190484	Post, Contact Operating 2-22
171694	Shaft 2-10	173761	Cable 2-19	190485	Bracket, Stop* 2-22
171695	Gear Set 2-5	174022	Bracket, Mounting 2-13	190486	Switch 2-22
171696	Gear Set 2-5	174023	Cable Assembly 2-19	190487	Switch 2-22
171697	Gear Set 2-5	174094	Resistor (25 Ohm) 2-9	190488	Contact Assembly, Tight Tape 2-22
171705	Guard, Gear 2-9	174324	Shield, Oil 2-6, 2-7, 2-23	190490	Post 2-22
171836	Hub 2-5	174525	Connector, Plug (50 Pt) 2-19	190491	Spacer 2-22
171837	Hub 2-7	174547	Plate, Base 2-9	190492	Bracket, Tape Guide 2-22
171838	Gear (28T) 2-7, 2-14, 2-23	174558	Modification Kit 2-21	190495	Chute, Chad 2-22
171841	Gear (84T) 2-7, 2-15	174559	Bracket 2-21	190497	Cable 2-19
171951	Connector, Shielding 2-19	174560	Stud 2-21	190523	Pulley 2-23
172108	Cable Assembly 2-19	174561	Roller 2-12, 2-21	190531	Gear (40T) 2-23
172110	Cable Assembly 2-19	174562	Plate 2-9	190534	Hub 2-23
172117	Cover 2-20	174563	Modification Kit to Provide Tape- Out Contacts Ahead of Reperforator On Low-to-High R/T 2-12	190535	Shaft w/Bearings and Gear 2-23
172628	Gear (19T) 2-4	174564	Bracket 2-12	190540	Bracket Assembly 2-23
172630	Gear (24T) 2-4	174565	Stud 2-12	190586	Disk, Retaining 2-23
172664	Cable Assembly 2-19	174566	Bracket 2-12	190606	Plate, Rear Connector 2-22
172665	Cable 2-19	174570	Switch 2-12, 2-21	190618	Terminal 2-22
172724	Bracket 2-14	174573	Plate, Connector 2-11	193147	Capacitor (.25MFD) 2-9
172725	Base 2-14	174574	Connector, Plug (21 Pt) 2-18, 2-19	193270	Plate, Base 2-9
172784	Bracket 2-3	174574	Connector, Plug (21 Pt) 2-18, 2-19	193640	Cable Assembly 2-19
172785	Shaft 2-15	174582	Cable Assembly 2-21	197567	Cable Assembly 2-19
172786	Shaft 2-15	174583	Cable Assembly 2-12	207223WU	Spacer 2-17
172787	Plate 2-15	174585	Cable Assembly 2-19		

1168B

SECTION 3

MOTOR UNIT



155595 Motor: AC Synchronous, 1/12 HP, 115V, 60 Cycle, 3600 RPM.
(General Electric Model 5SC19LG9)

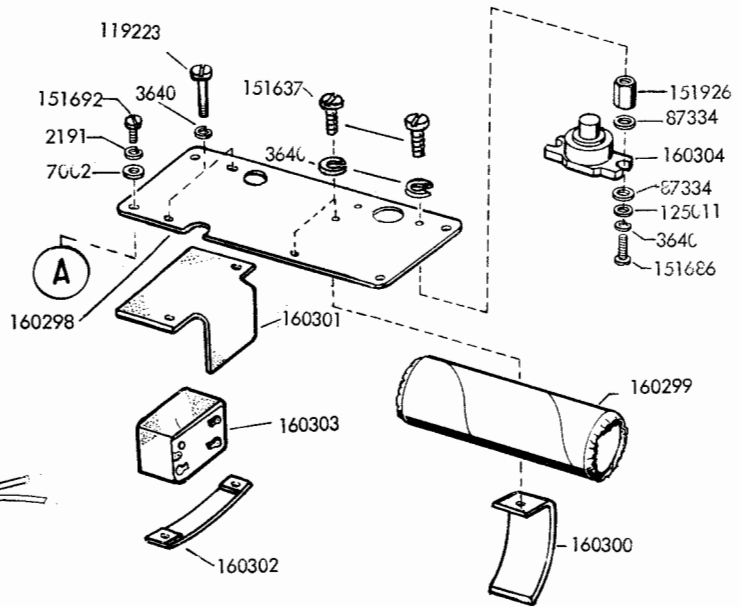
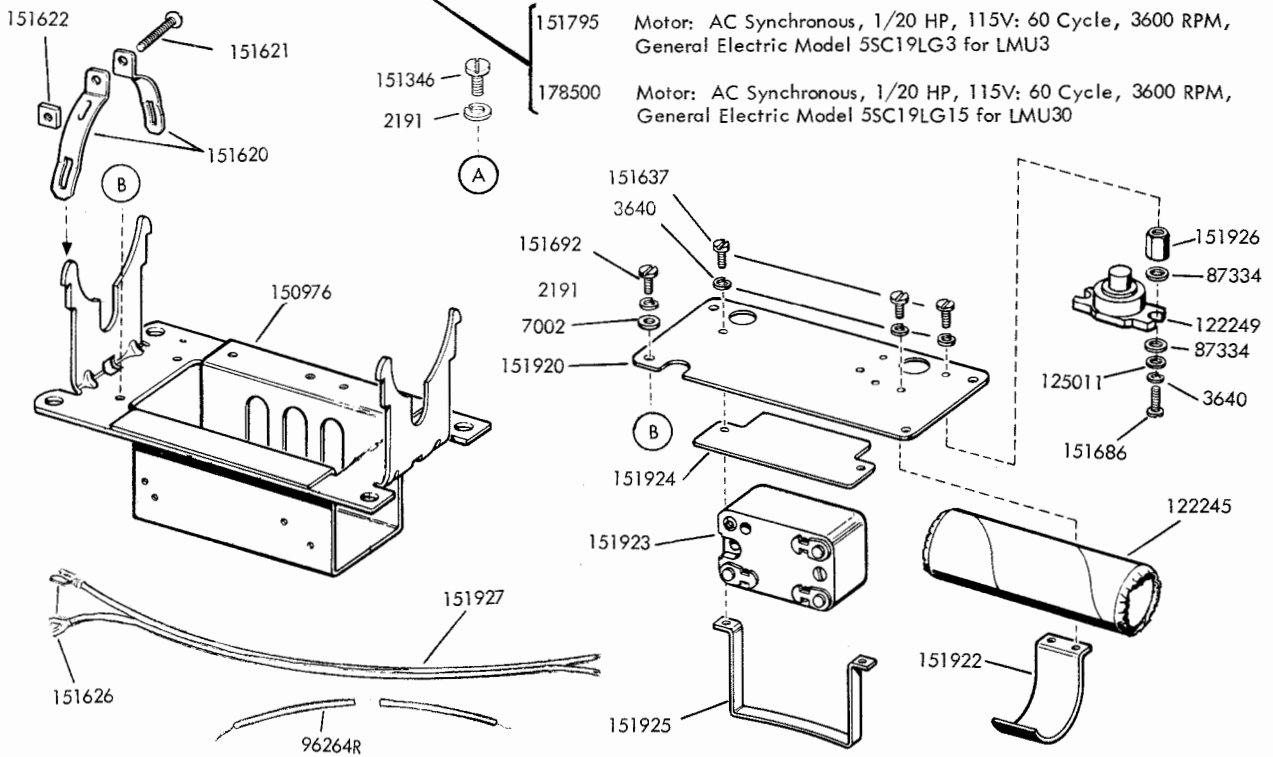
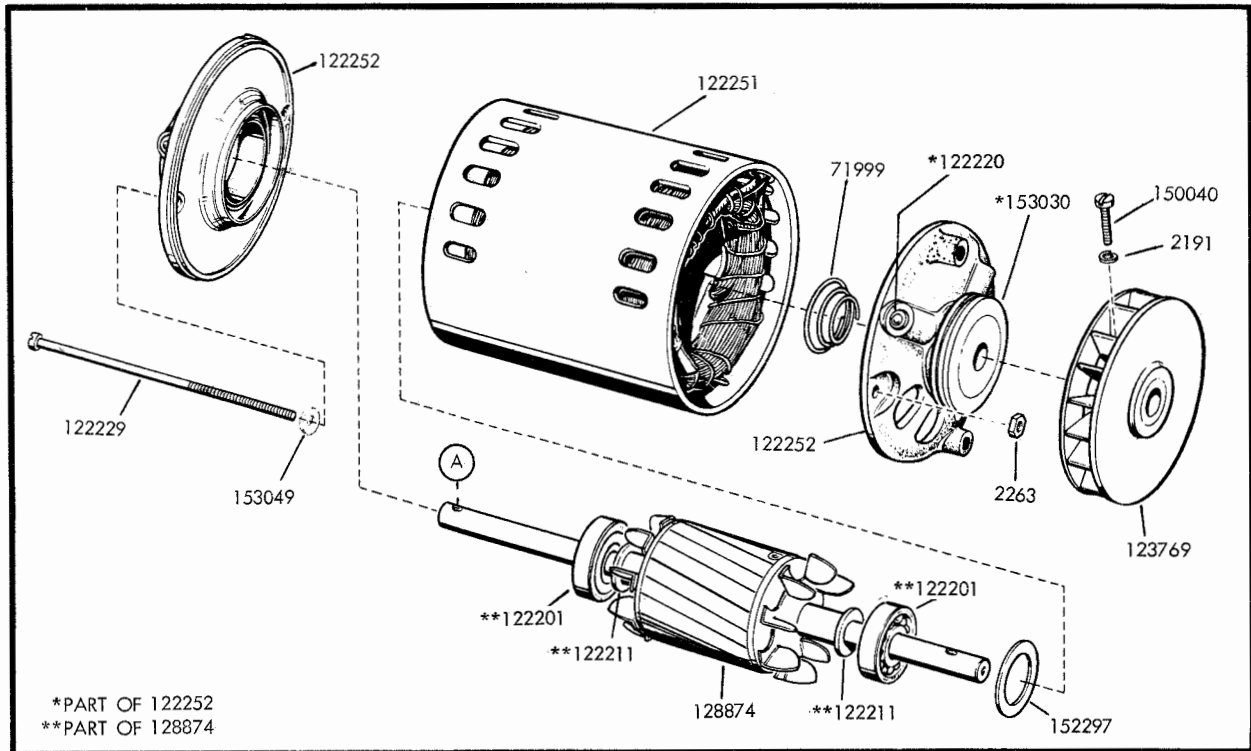
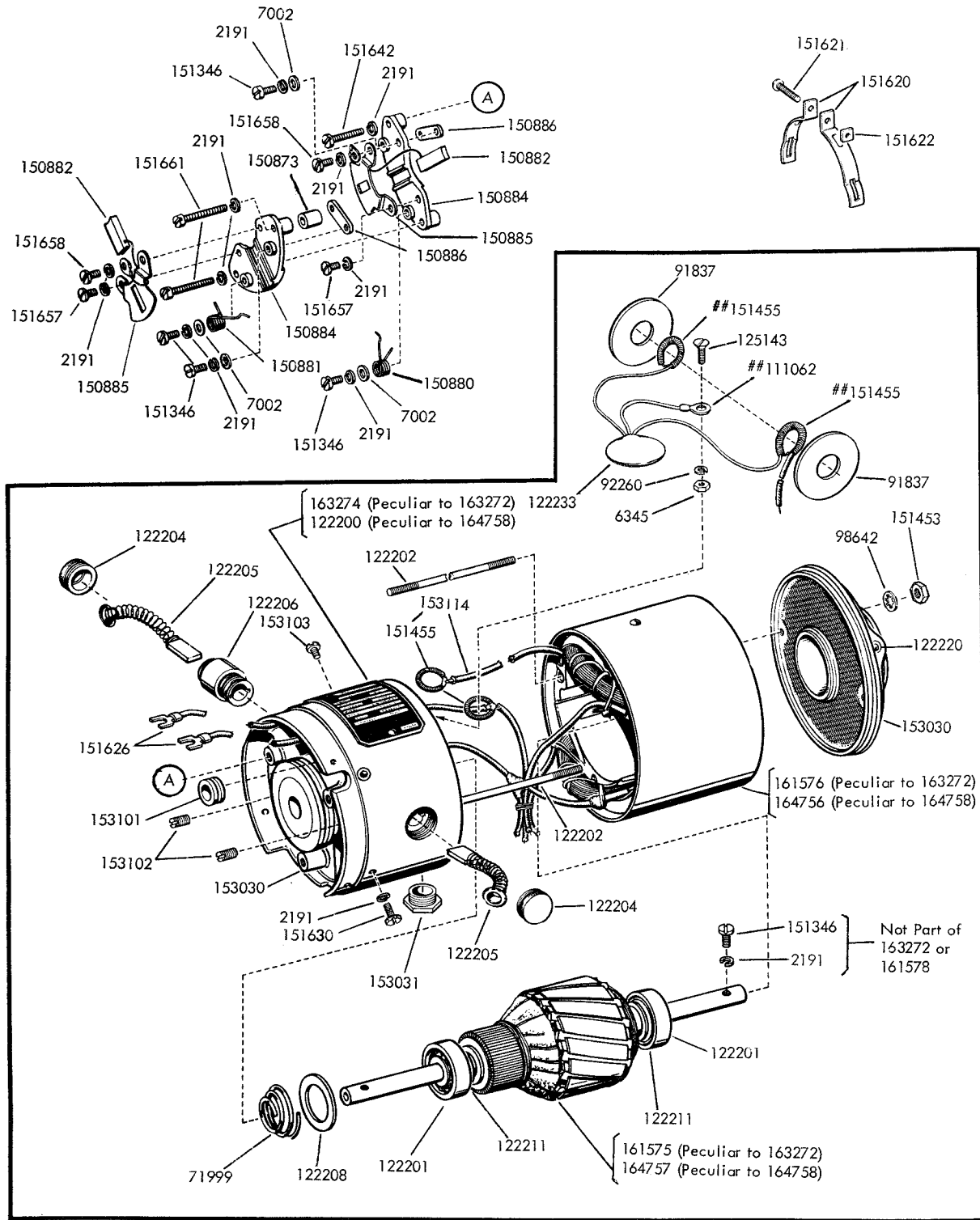


FIGURE 3-1. LMU11 SYNCHRONOUS MOTOR UNIT



Note: The LMU3 and LMU30 Motor Units are alike except that the LMU30 is arranged for inverted mounting with the end shields of the 178500 Motor rotated 180°.

FIGURE 3-2. LMU3 AND LMU30 SYNCHRONOUS MOTOR UNITS

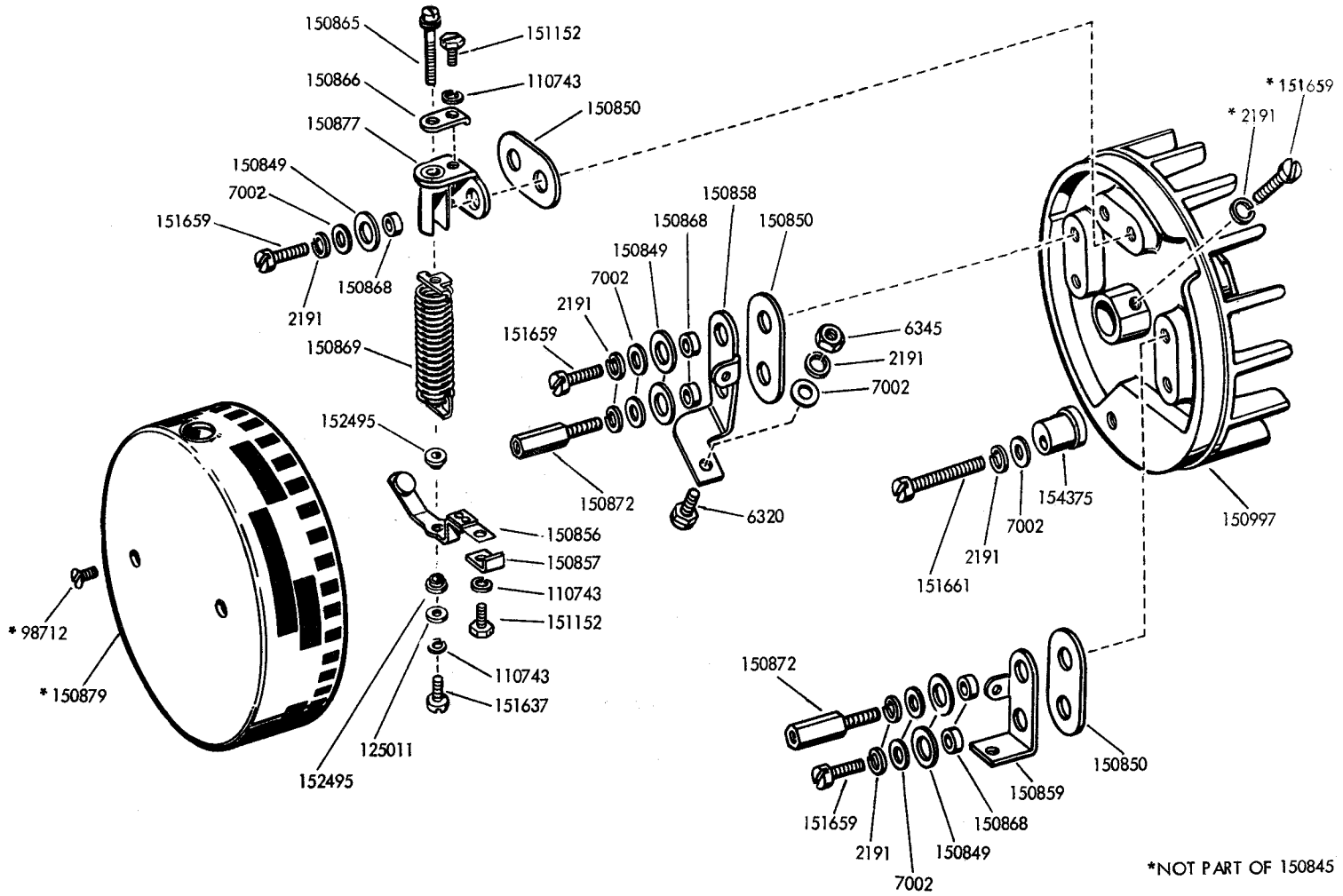


##Part of 122233

163272 Motor: Series, 1/15 HP, 115V, 60 Cycle, 3600 RPM.
(General Electric Model 5PA66HY4)
164785 Motor: Series, 1/15 HP, 48V, DC Only, 3600 RPM.
(General Electric Model 5PD66HY2)

FIGURE 3-3. SERIES MOTORS

FIGURE 3-4. 150845 GOVERNOR ASSEMBLY



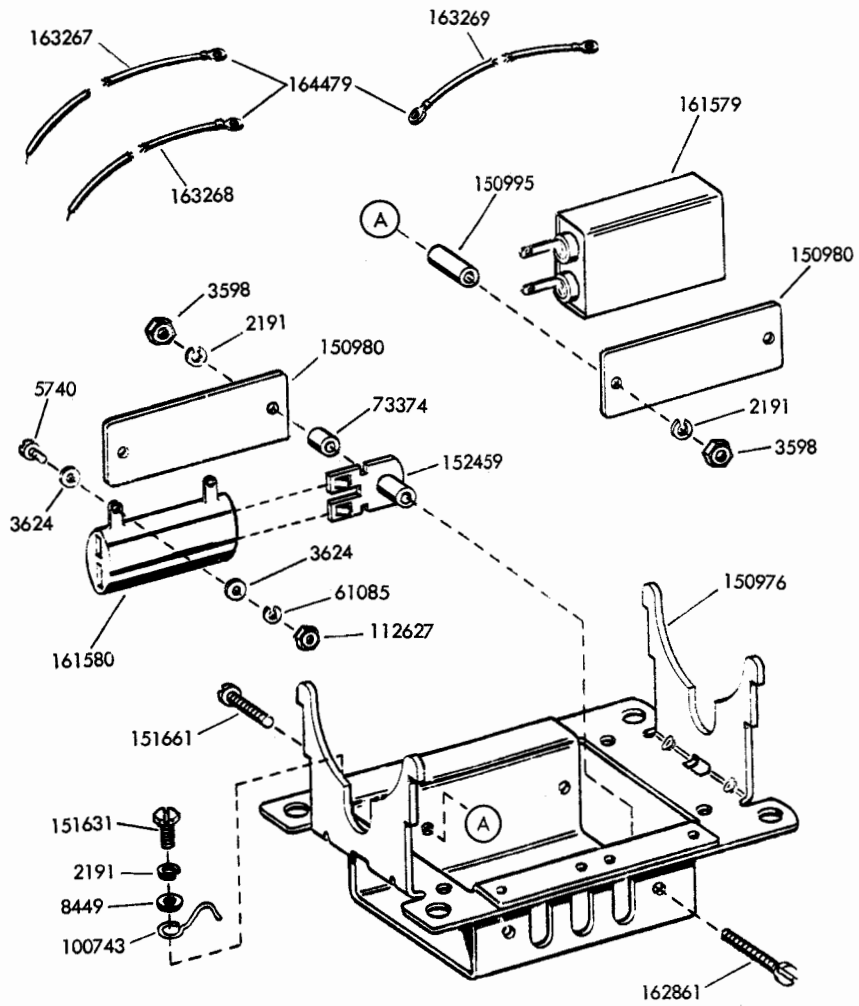


FIGURE 3-5. SERIES MOTOR MOUNTING PARTS

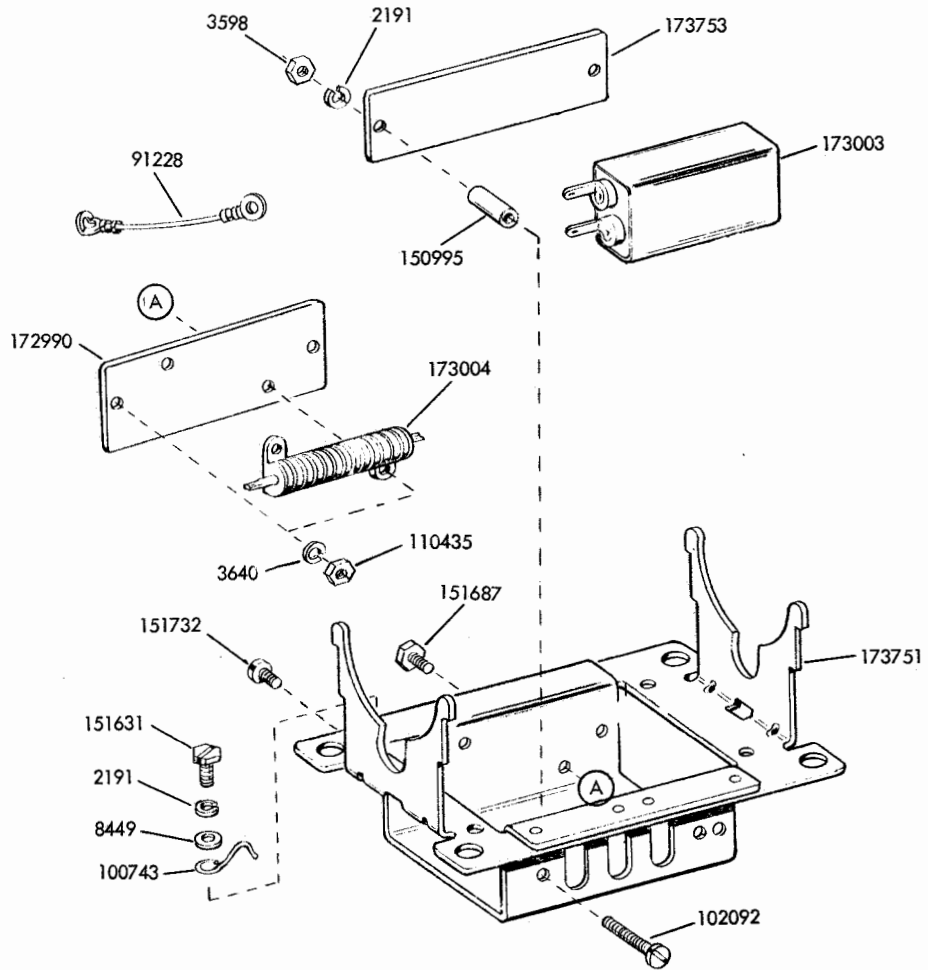


FIGURE 3-6. SERIES MOTOR MOUNTING PARTS

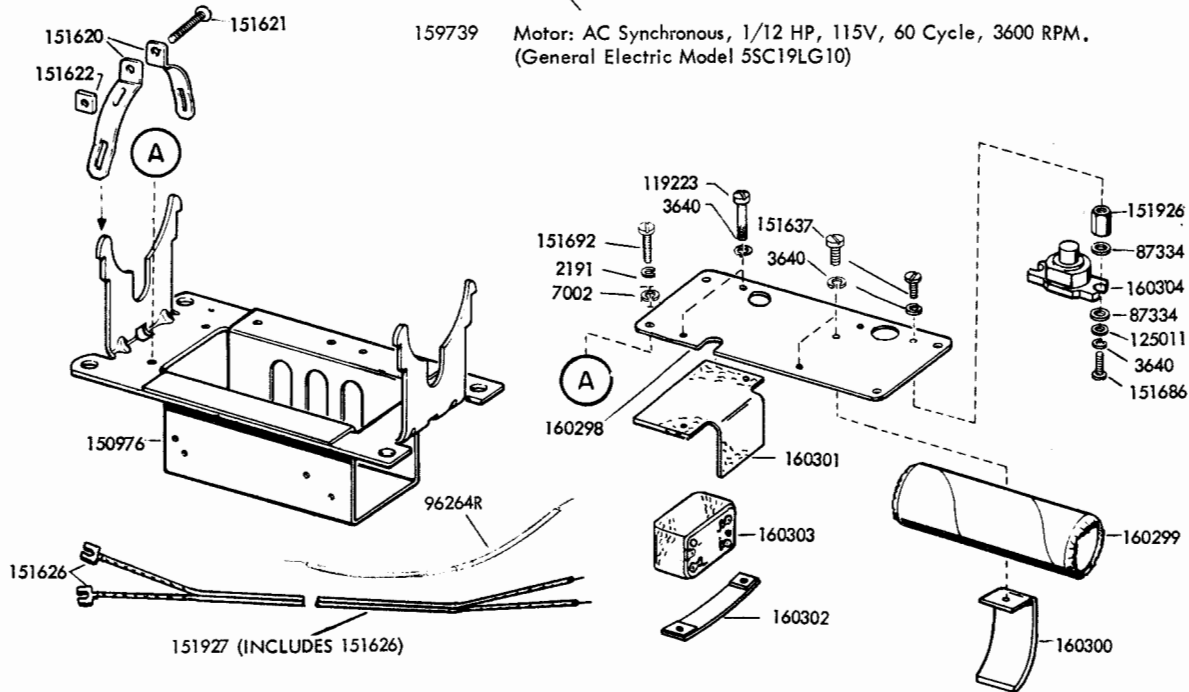
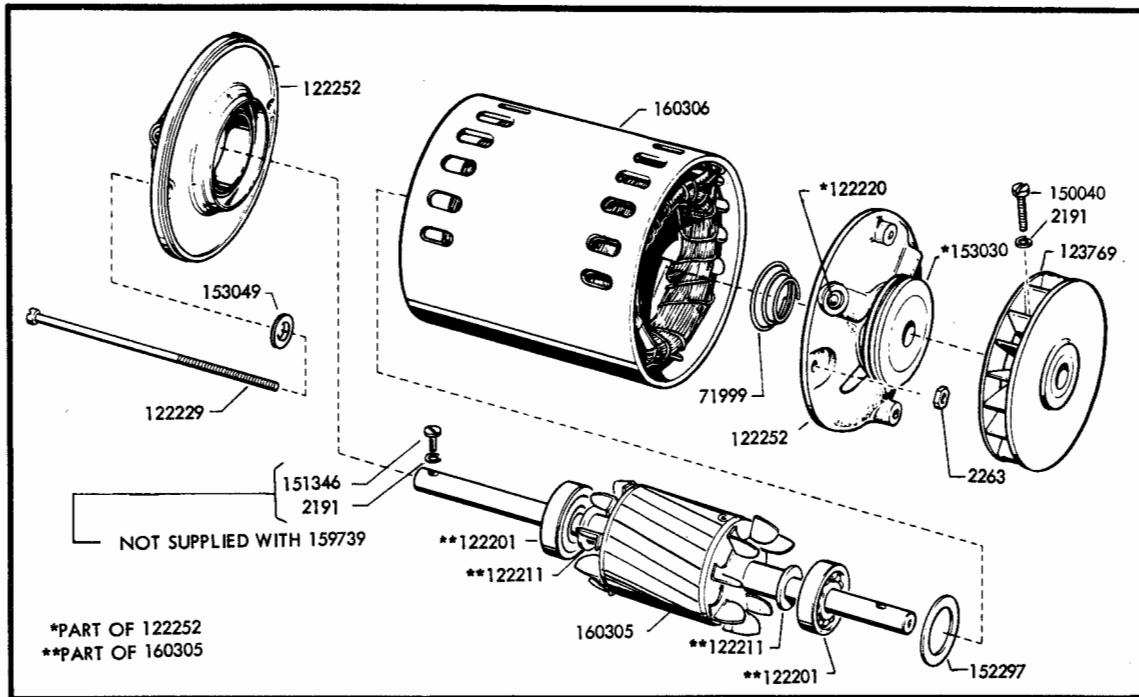


FIGURE 3-7. LMU12 SYNCHRONOUS MOTOR UNIT

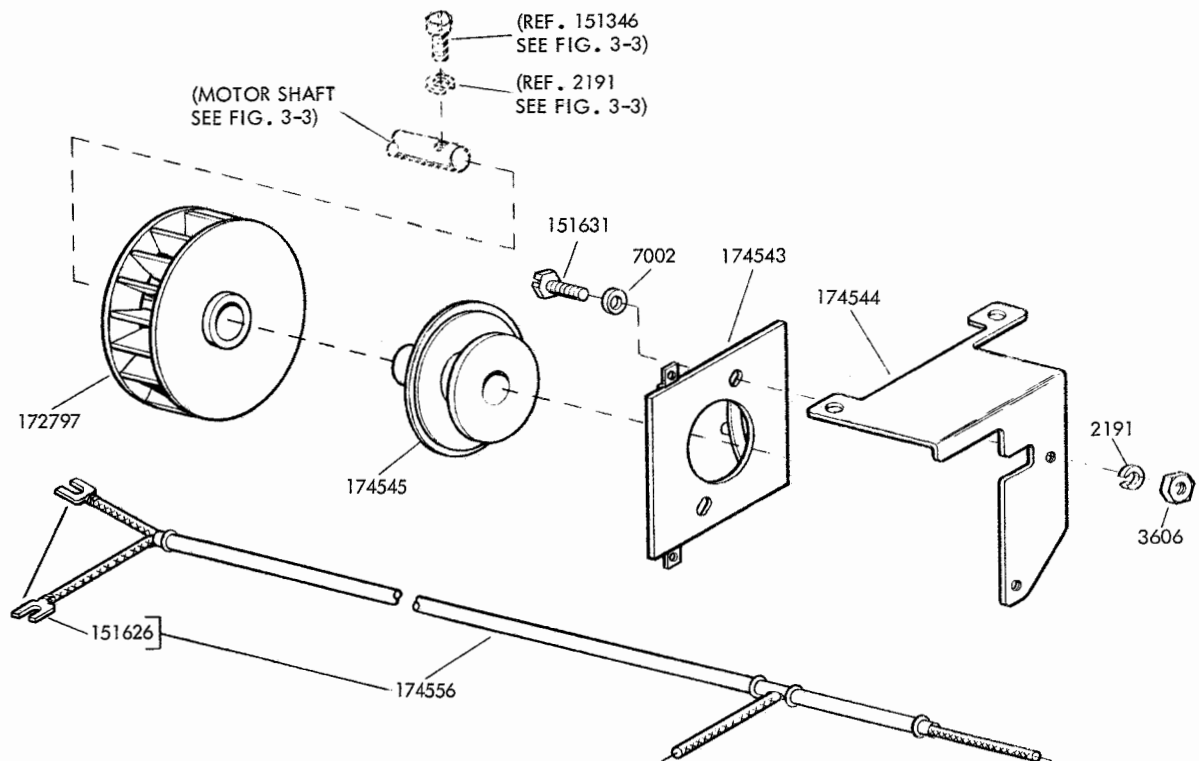


FIGURE 3-8. 174546 MODIFICATION KIT TO PROVIDE MOTOR "RUNNING" CONTACTS

NUMERICAL INDEX - SECTION 3

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
2191	Washer, Lock 3-2 to 3-9	150853	Bushing, Eccentric 3-5	151925	Clamp 3-3
2263	Nut (8-32 Hex) 3-2, 3-3, 3-8	150856	Arm, Contact 3-5	151926	Nut (4-40 Spl) 3-2, 3-3, 3-8
3598	Nut (6-40 Hex) 3-6, 3-7	150857	Clamp, Contact Arm 3-5	151927	Cable w/Terminals 3-2, 3-3, 3-8
3606	Nut (6-40 Hex) 3-9	150858	Bracket, Contact 3-5	152297	Washer, Flat 3-2, 3-3, 3-8
3624	Washer, Flat 3-6	150859	Bracket, Mounting 3-5	152459	Bracket, Mounting 3-6
3640	Washer, Lock 3-2, 3-3, 3-7, 3-8	150865	Screw, Clamping (4-40) 3-5	152495	Bushing 3-5
5740	Screw (2-56 x 1/4 Fil) 3-6	150866	Clamp, Screw 3-5	153030	Mount, Vibration 3-2, 3-3, 3-4
6320	Screw, Contact 3-5	150868	Bushing, Insulating 3-5	153031	Bushing, Lead 3-4
6345	Nut (6-32 Hex) 3-4, 3-5	150869	Spring, Governor 3-5	153049	Washer, Fiber 3-2, 3-3, 3-8
7002	Washer, Flat 3-2, 3-3, 3-4, 3-5, 3-8, 3-9	150872	Stud 3-5	153101	Grommet 3-4
8449	Collar 3-6, 3-7	150873	Collar 3-4	153102	Screw, Set (8-32) 3-4
61085	Washer, Lock 3-6	150877	Bracket 3-5	153103	Screw, Self Tapping 3-4
71999	Spring, Thrust 3-2, 3-3, 3-4, 3-8	150879	Cover, Governor 3-5	153114	Wire Assembly 3-4
73374	Spacer 3-6	150880	Spring, Governor Brush 3-4	155595	Motor, AC Synchronous 3-2
87334	Washer, Insulating 3-2, 3-3, 3-8	150881	Spring, Governor Brush 3-4	159739	Motor, Synchronous 3-8
91228	Strap 3-7	150882	Brush, Contact 3-4	160298	Plate, Mounting 3-2, 3-8
91837	Washer, Fiber 3-4	150884	Mounting, Brush 3-4	160299	Capacitor (170-226 mf) 3-2, 3-8
92260	Washer, Lock 3-4	150885	Plate, Brush 3-4	160300	Clamp 3-2, 3-8
96264R	Strap (5" Red) 3-2, 3-3	150886	Plate, Clamp 3-4	160301	Plate, Insulating 3-2, 3-8
98642	Washer, Lock 3-4	150976	Bracket, Motor 3-2, 3-3, 3-6, 3-8	160302	Plate, Nut 3-2, 3-8
98712	Screw (4-40 x 7/32 Flat) 3-5	150980	Plate, Clamping 3-6	160303	Relay 3-2, 3-8
100743	Clamp, Cable 3-6, 3-7	150995	Bushing 3-6, 3-7	160304	Switch, Thermostatic 3-2, 3-8
102092	Screw (6-40 x 1-17/32 Rd) 3-7	150997	Fan, Governor 3-5	160305	Rotor 3-2, 3-8
110435	Nut (4-40 Hex) 3-7	151152	Screw (4-40 x 3/16 Hex) 3-5	160306	Stator 3-2, 3-8
110743	Washer, Lock 3-5	151346	Screw (6-40 x 3/8 Fil) 3-2, 3-3, 3-4, 3-8	161575	Armature 3-4
111062	Terminal 3-5	151453	Nut (10-32 Hex) 3-4	161576	Stator 3-4
112627	Nut (2-56 Hex) 3-6	151455	Spring, Clip 3-4	161579	Capacitor (.5 mf) 3-6
119223	Screw (4-40 x 1-15/32 Fil) 3-2, 3-8	151620	Strap, Mounting 3-2, 3-3, 3-4, 3-8	161580	Resistor (500 ohms) 3-6
122201	Bearing, Ball 3-2, 3-3, 3-4, 3-8	151621	Screw (6-32 x 3/4 Rd) 3-2, 3-3, 3-4, 3-8	162861	Screw (6-40 x 1-5/16 Fil) 3-6
122202	Bolt, Clamping 3-4	151622	Nut (6-32 Sq) 3-2, 3-3, 3-4, 3-8	163267	Jumper w/Terminal 3-6
122204	Cap, Brush 3-4	151626	Terminal 3-2, 3-3, 3-4, 3-9	163268	Jumper w/Terminal 3-6
122205	Brush w/Spring 3-4	151631	Screw (6-40 x 5/16 Hex) 3-6, 3-7, 3-9	163269	Jumper w/Terminal 3-6
122206	Holder, Brush 3-4	151637	Screw (4-40 x 1/4 Fil) 3-2, 3-3, 3-5, 3-8	163272	Motor, AC Series (115V) 3-4
122208	Washer, Flat 3-4	151642	Screw (6-40 x 3/4 Fil) 3-4	163274	Shield Assembly, End 3-4
122211	Washer, Pull 3-2, 3-3, 3-4, 3-8	151657	Screw (6-40 x 1/4 Fil) 3-4	164479	Terminal 3-6
122220	Oiler, Ball 3-2, 3-3, 3-4, 3-8	151658	Screw (6-40 x 5/16 Fil) 3-4	164756	Stator 3-4
122229	Bolt (8-32 x 4-11/16 Fil) 3-2, 3-3, 3-8	151659	Screw (6-40 x 1/2 Fil) 3-5	164757	Armature 3-4
122233	Capacitor Assembly 3-4	151661	Screw (6-40 x 1 Fil) 3-4, 3-5, 3-6	164758	Motor, DC Series (48V) 3-4
122245	Capacitor (45 mf) 3-3	151686	Screw (4-40 x 3/8 Fil) 3-2, 3-3, 3-8	172797	Fan 3-9
122251	Stator 3-3	151687	Screw (4-40 x 7/16 Hex) 3-7	172990	Plate 3-7
122252	Shield Assembly, End 3-2, 3-3, 3-8	151692	Screw (6-40 x 3/16 Fil) 3-2, 3-8	173003	Capacitor (1 mf) 3-7
123769	Fan, Motor 3-2, 3-3, 3-8	151732	Screw (4-40 x 11/32 Fil) 3-7	173004	Resistor (100 ohms) 3-7
125011	Washer, Flat 3-2, 3-3, 3-5, 3-8	151795	Motor, AC Synchronous 3-3	173751	Bracket, Motor 3-7
125143	Screw (6-32 x 5/16 Flat) 3-4	151920	Plate, Mounting 3-3	173753	Plate 3-7
128874	Rotor 3-3	151922	Clamp 3-3	174543	Switch 3-9
150040	Screw (6-40 x 5/8 Fil) 3-2, 3-3, 3-8	151923	Relay 3-3	174544	Bracket 3-9
150845	Governor Assembly 3-5	151924	Insulator 3-3	174545	Rotor Assembly 3-9
150849	Washer, Insulating 3-5			174546	Modification Kit 3-9
150850	Plate, Insulating 3-5			174556	Cable Assembly 3-9
				178500	Motor, AC Synchronous 3-3

SECTION 4

CABINET

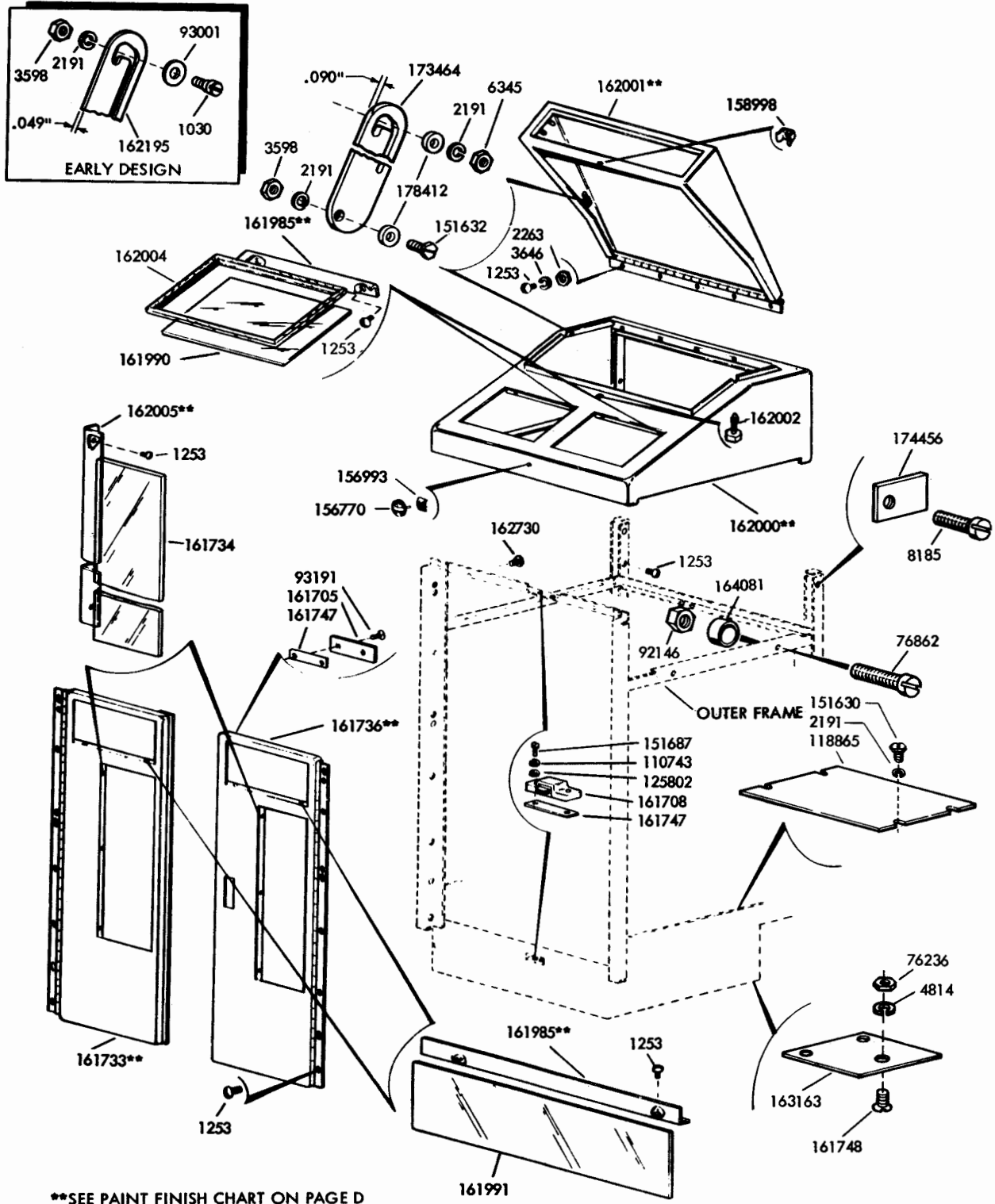


FIGURE 4-1. FRONT DOORS AND DOME

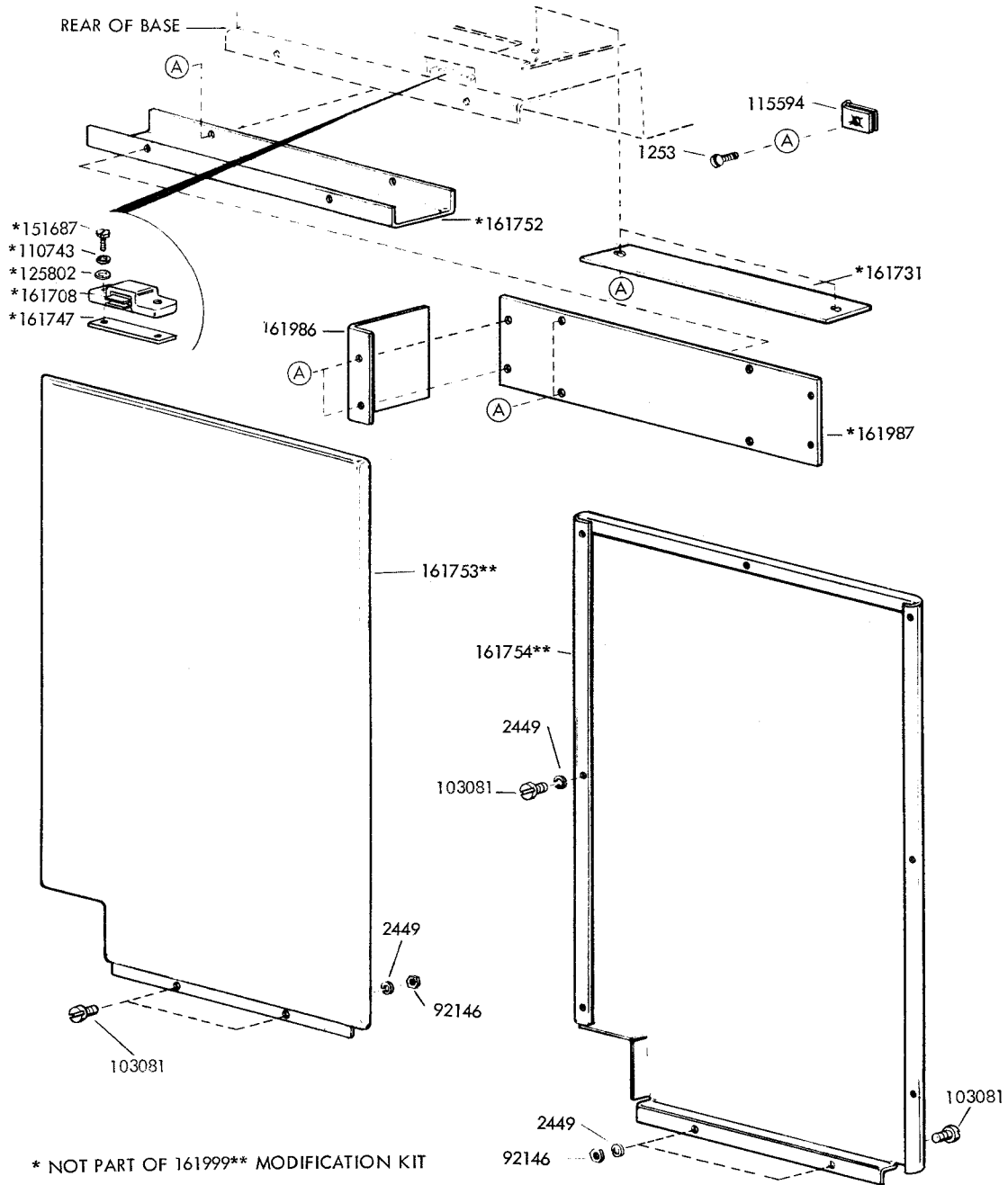


FIGURE 4-2. 161999** MODIFICATION KIT TO PROVIDE END ENCLOSURES

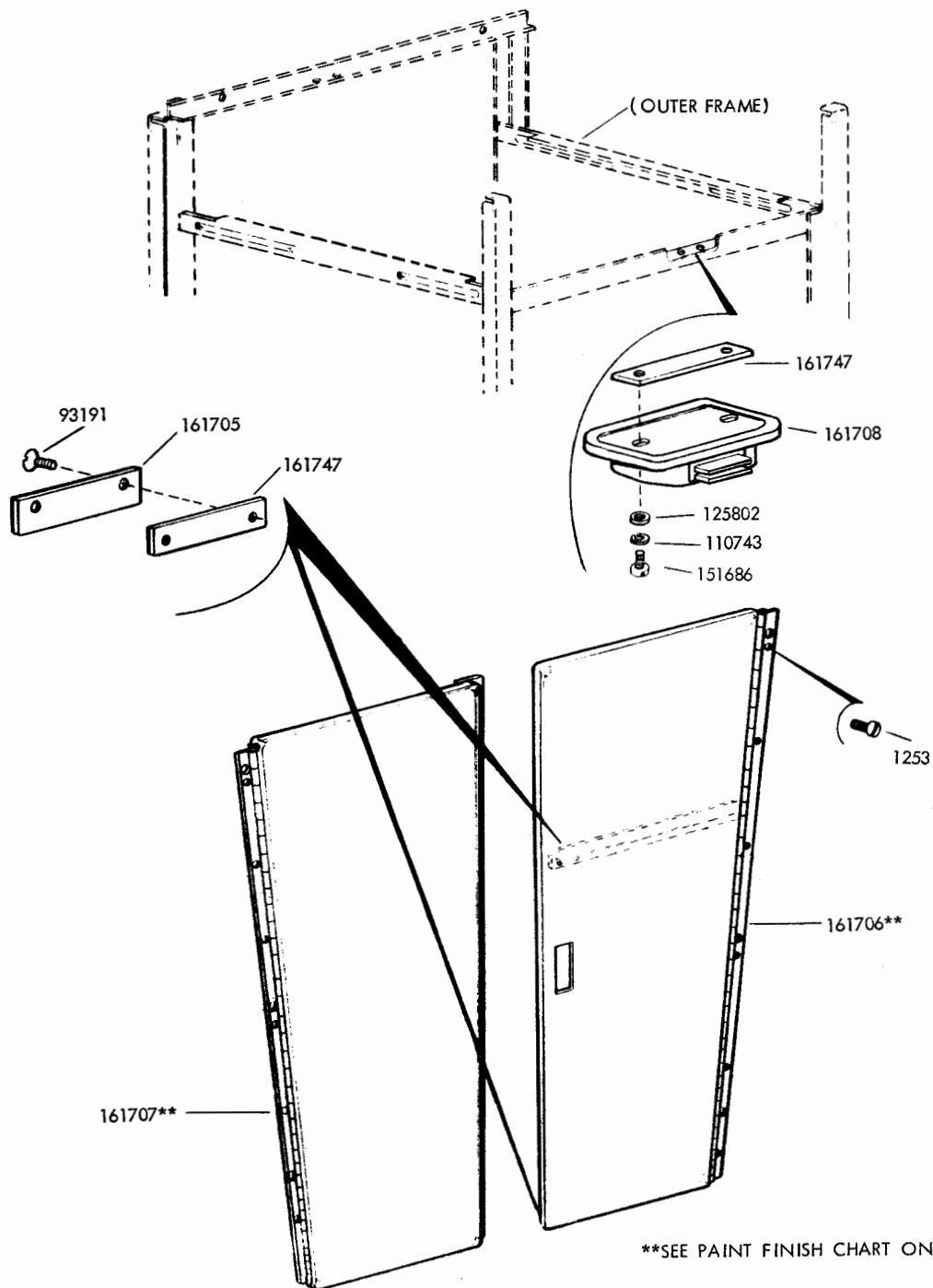


FIGURE 4-3. REAR DOORS AND LATCH MECHANISM

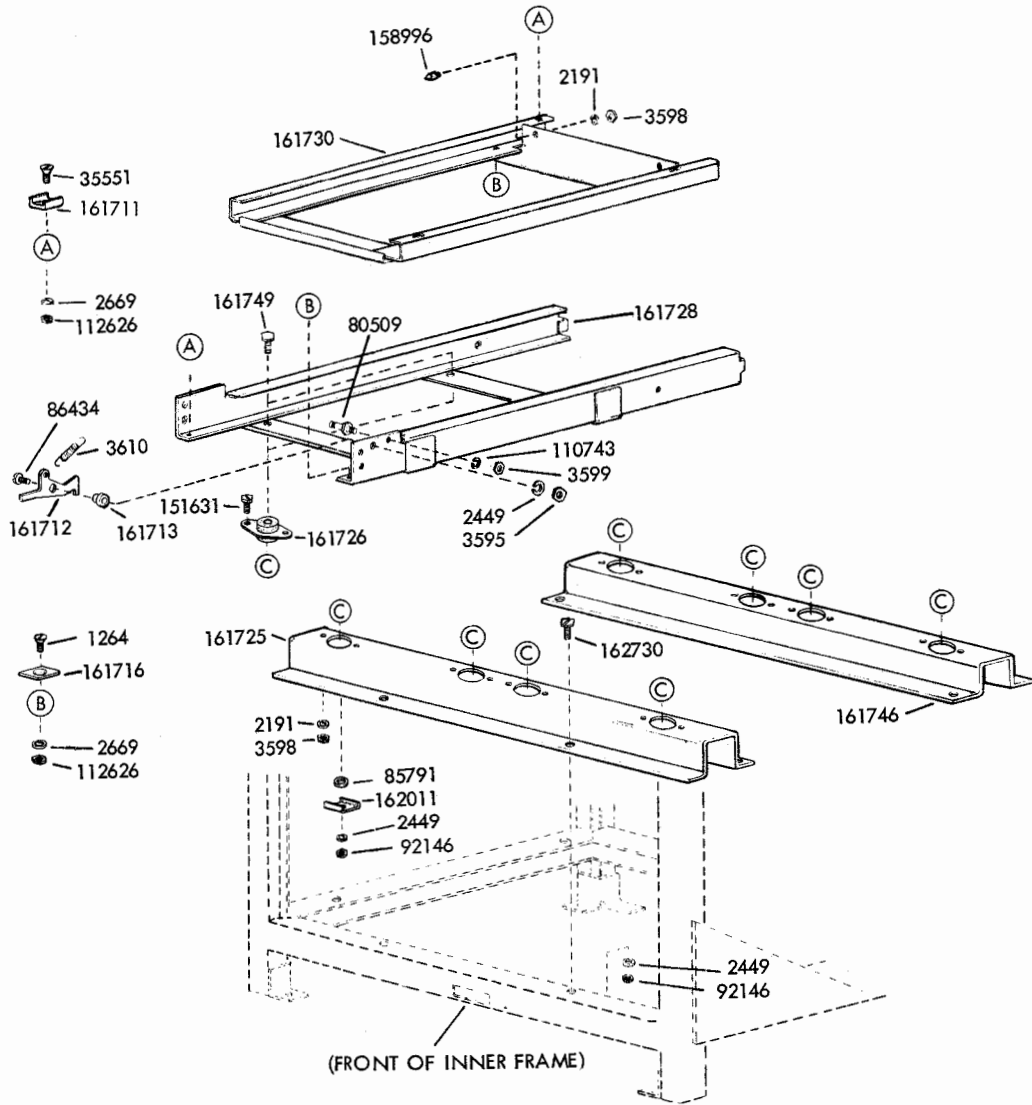


FIGURE 4-4. CHANNEL ASSEMBLIES

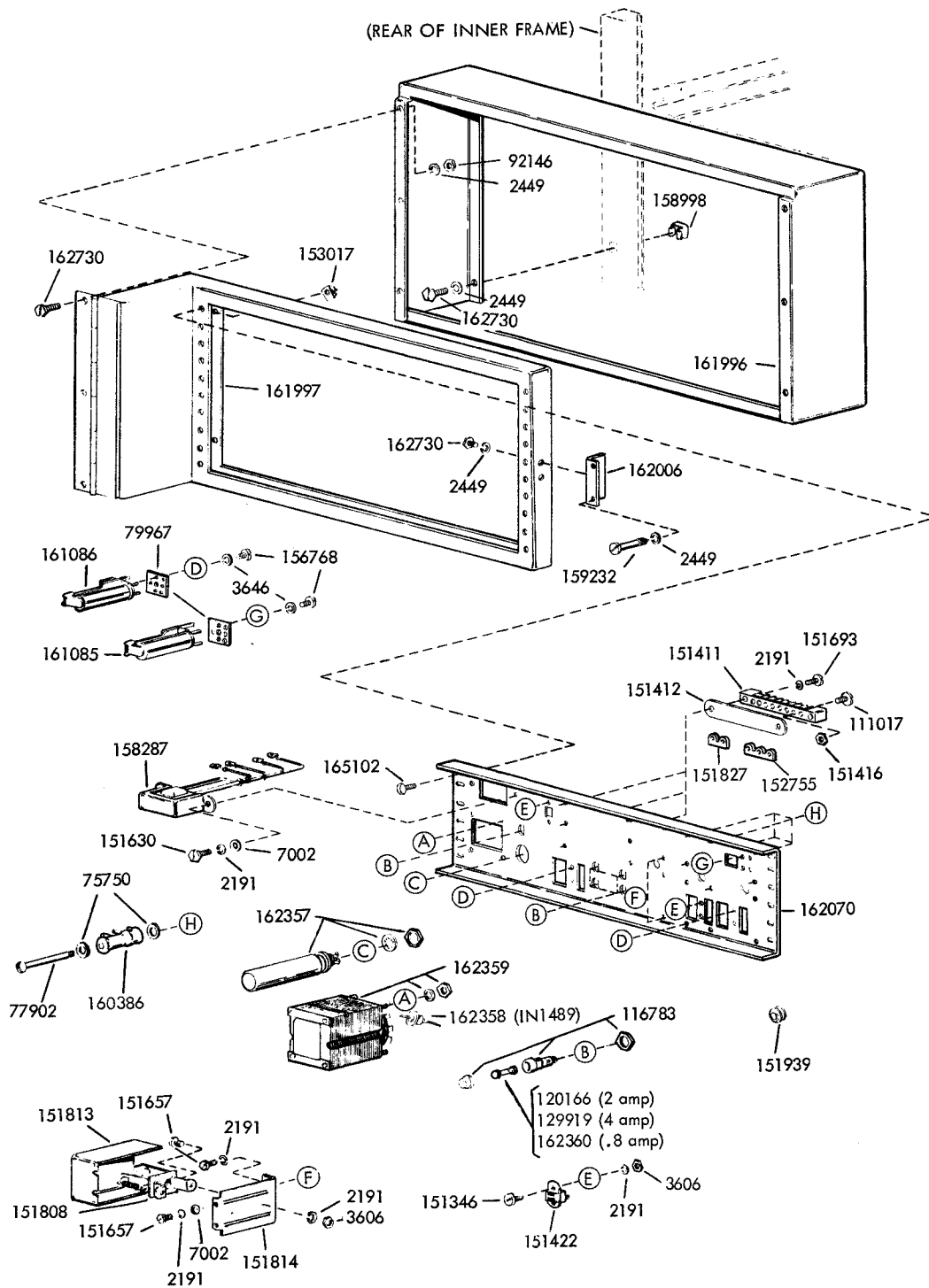


FIGURE 4-5. ELECTRICAL COMPONENTS

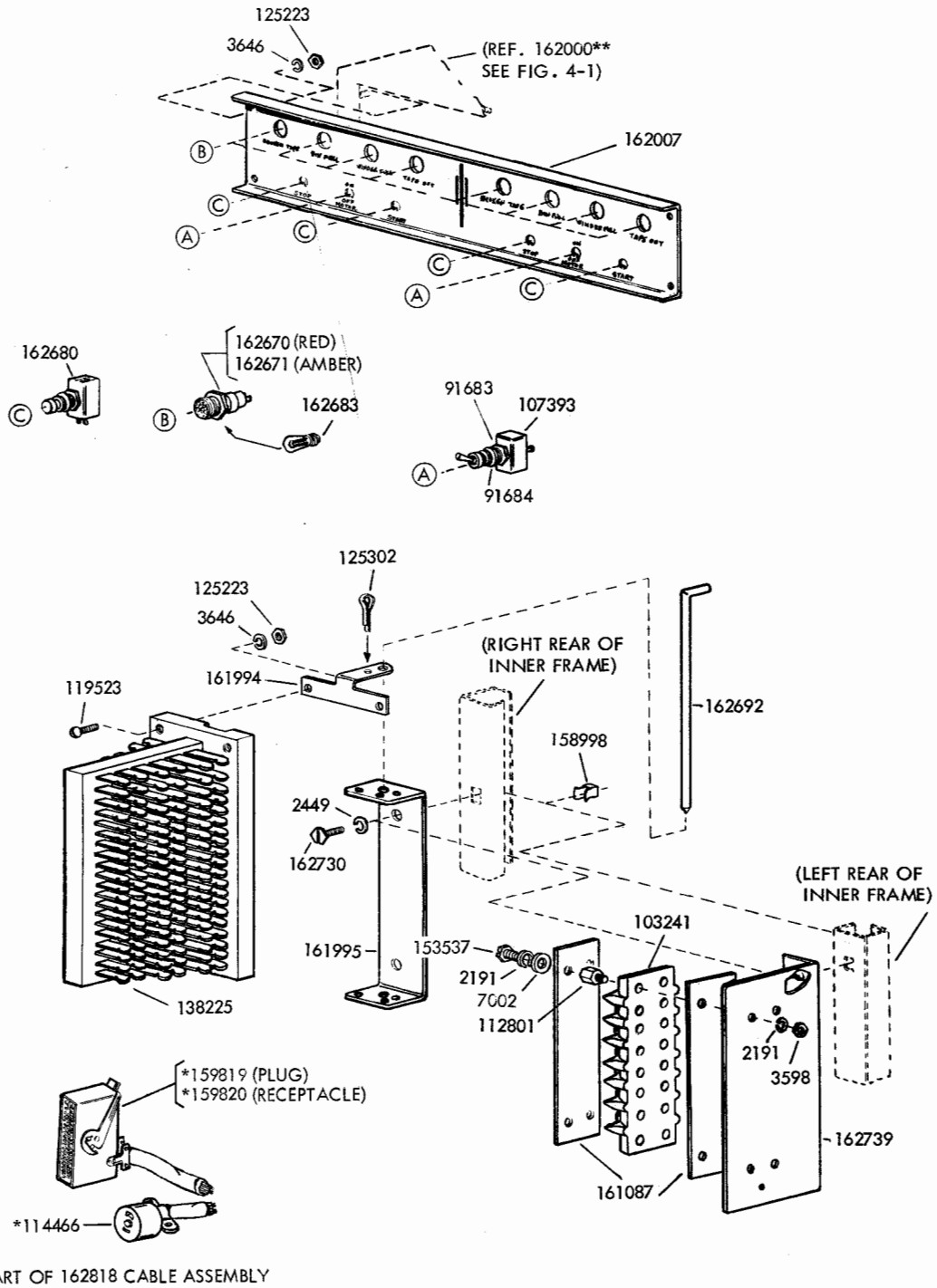


FIGURE 4-6. CONTROL PANEL AND TERMINAL BLOCKS

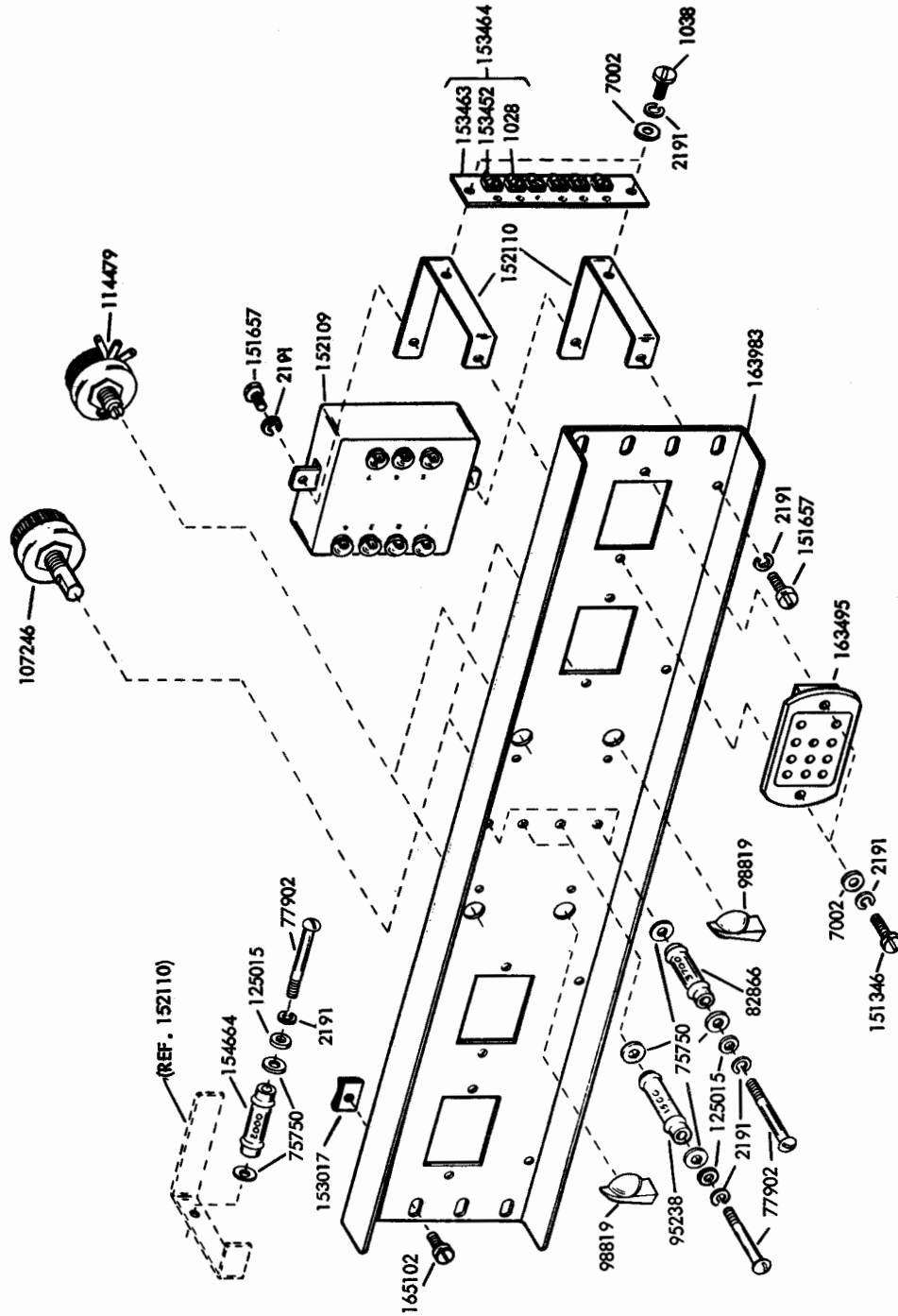
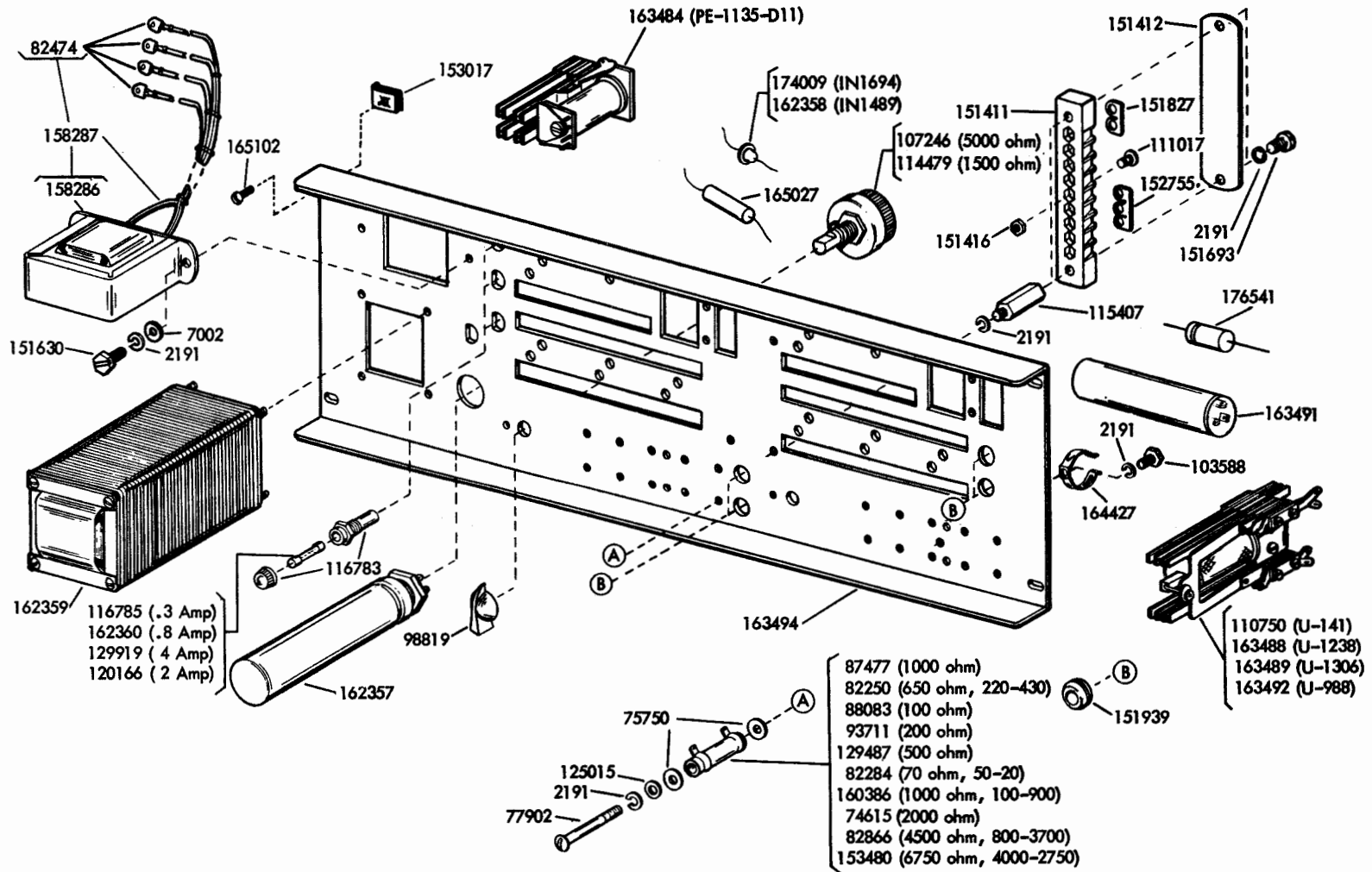


FIGURE 4-8. RELAY PLATE AND COMPONENTS

FIGURE 4-9. CONTROL PLATE AND COMPONENTS



11688

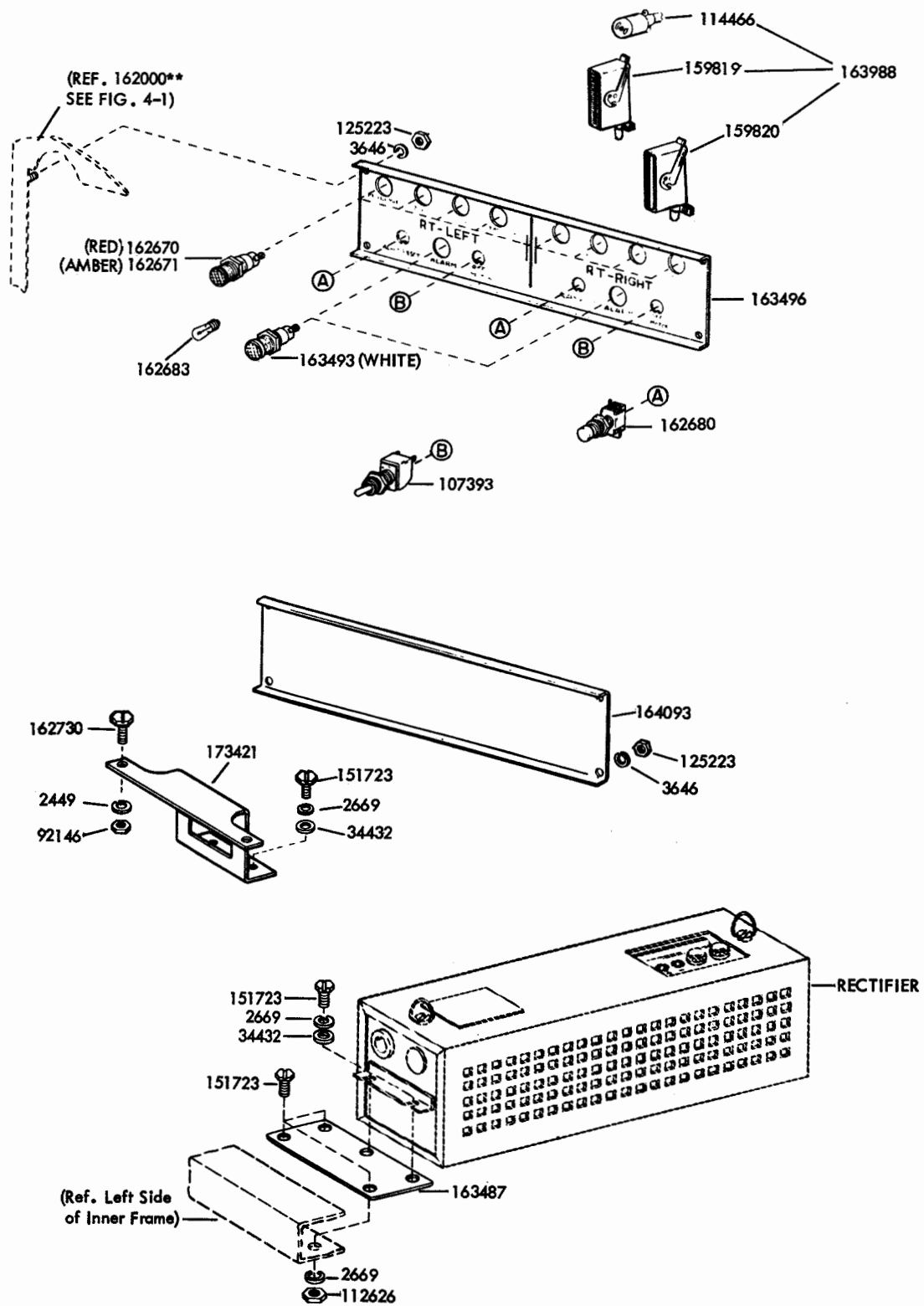


FIGURE 4-10. RECTIFIER MOUNTING PARTS AND CONTROL PLATE COMPONENTS

Resistors				
Part No.	Ohm	1	2	3 4
172688	3900	O	W	R G
172689	4300	Y	O	R G
172690	5100	G	Br	R G

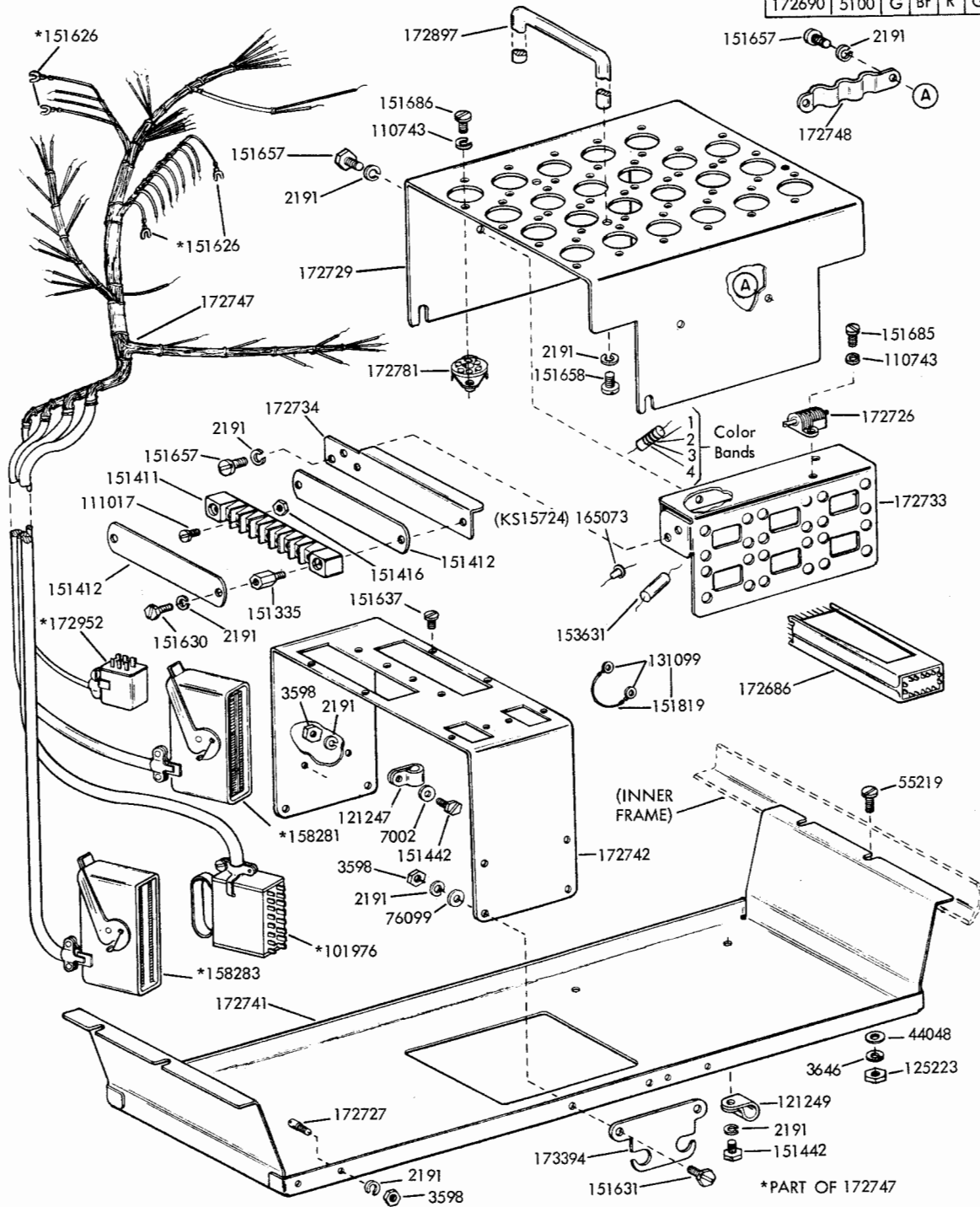


FIGURE 4-11. RELAY UNIT AND FRAME

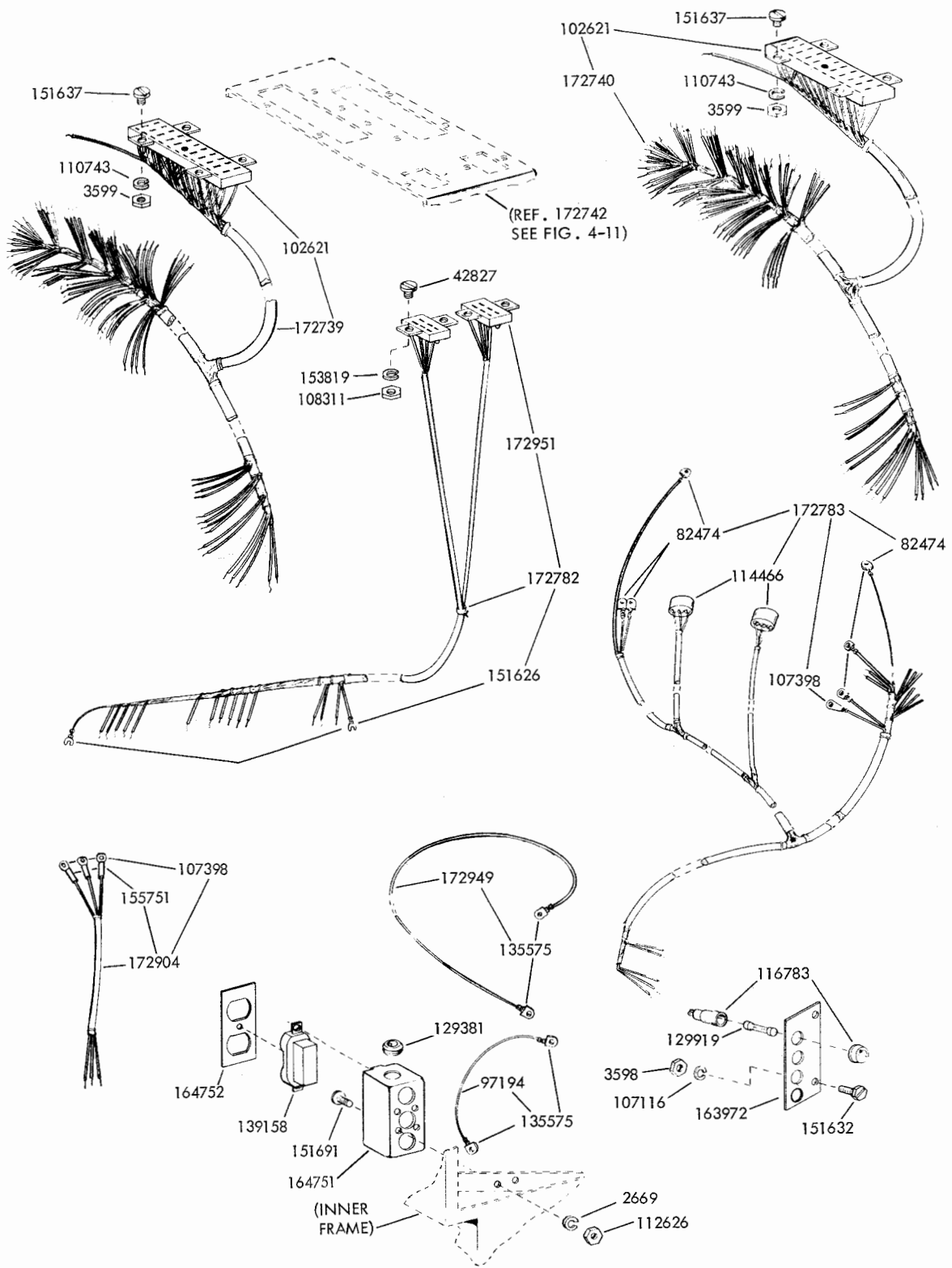


FIGURE 4-12. CABLE ASSEMBLIES

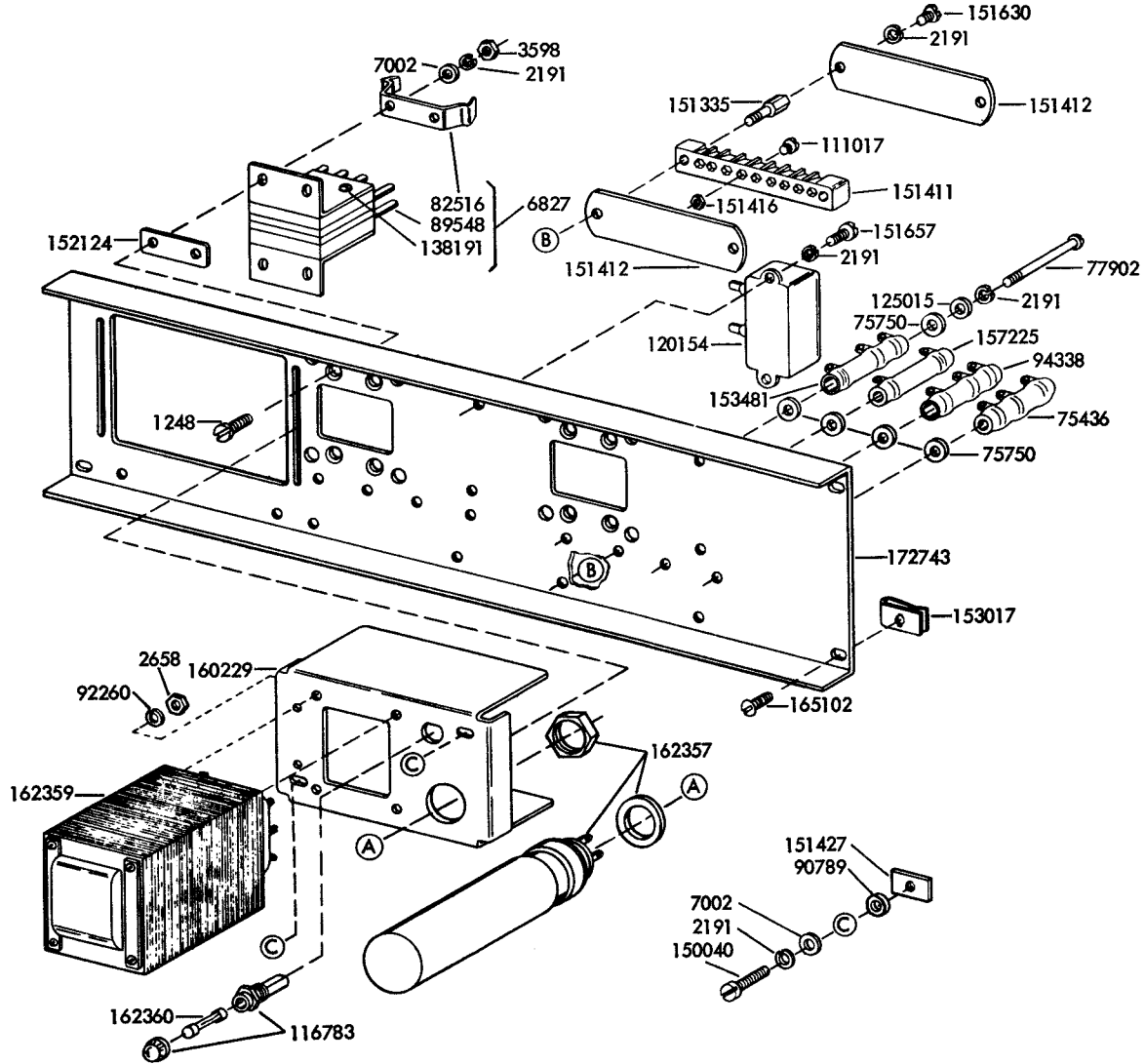


FIGURE 4-13. RELAY PLATE AND COMPONENTS

FIGURE 4-14. PANEL AND COMPONENTS

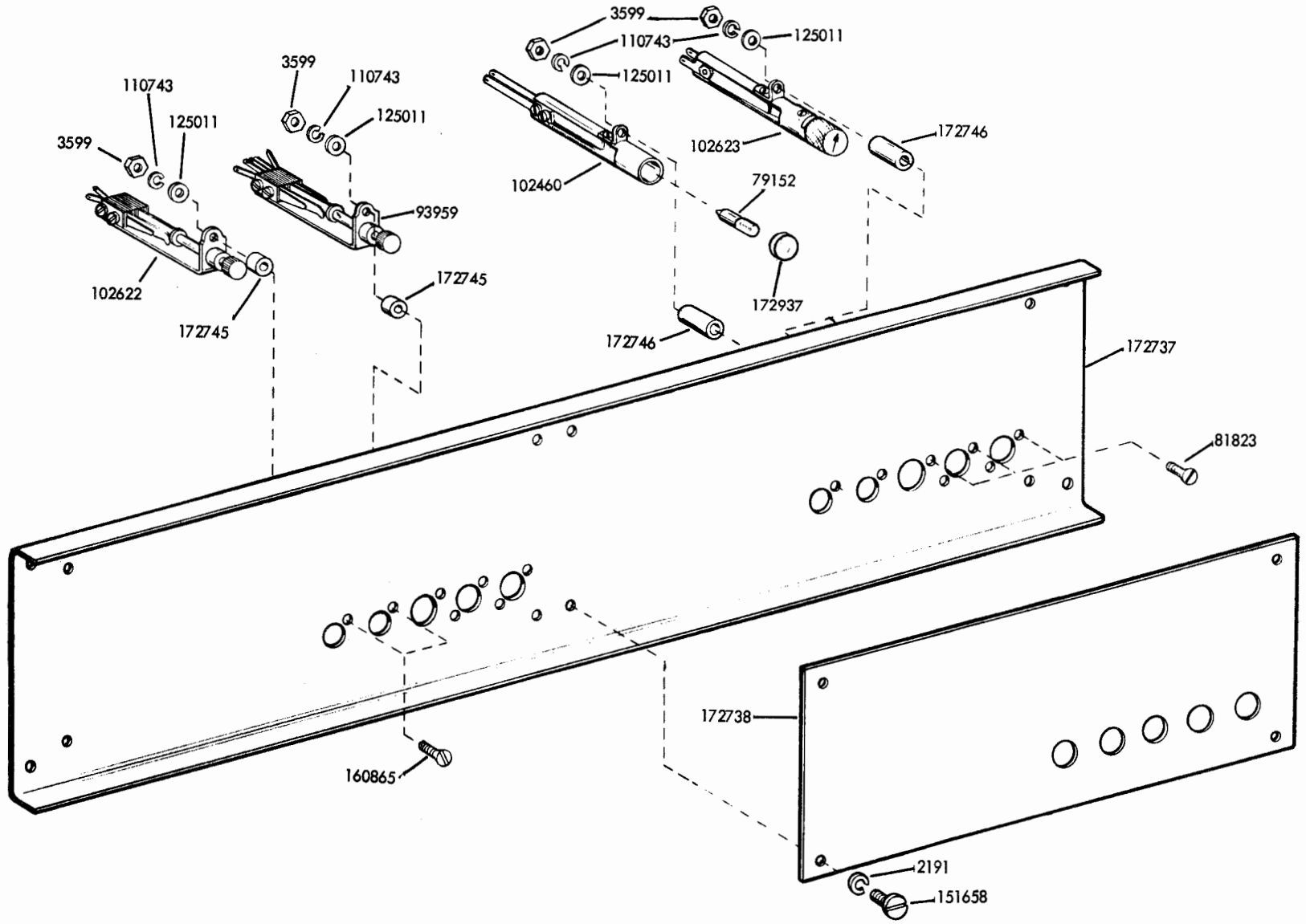
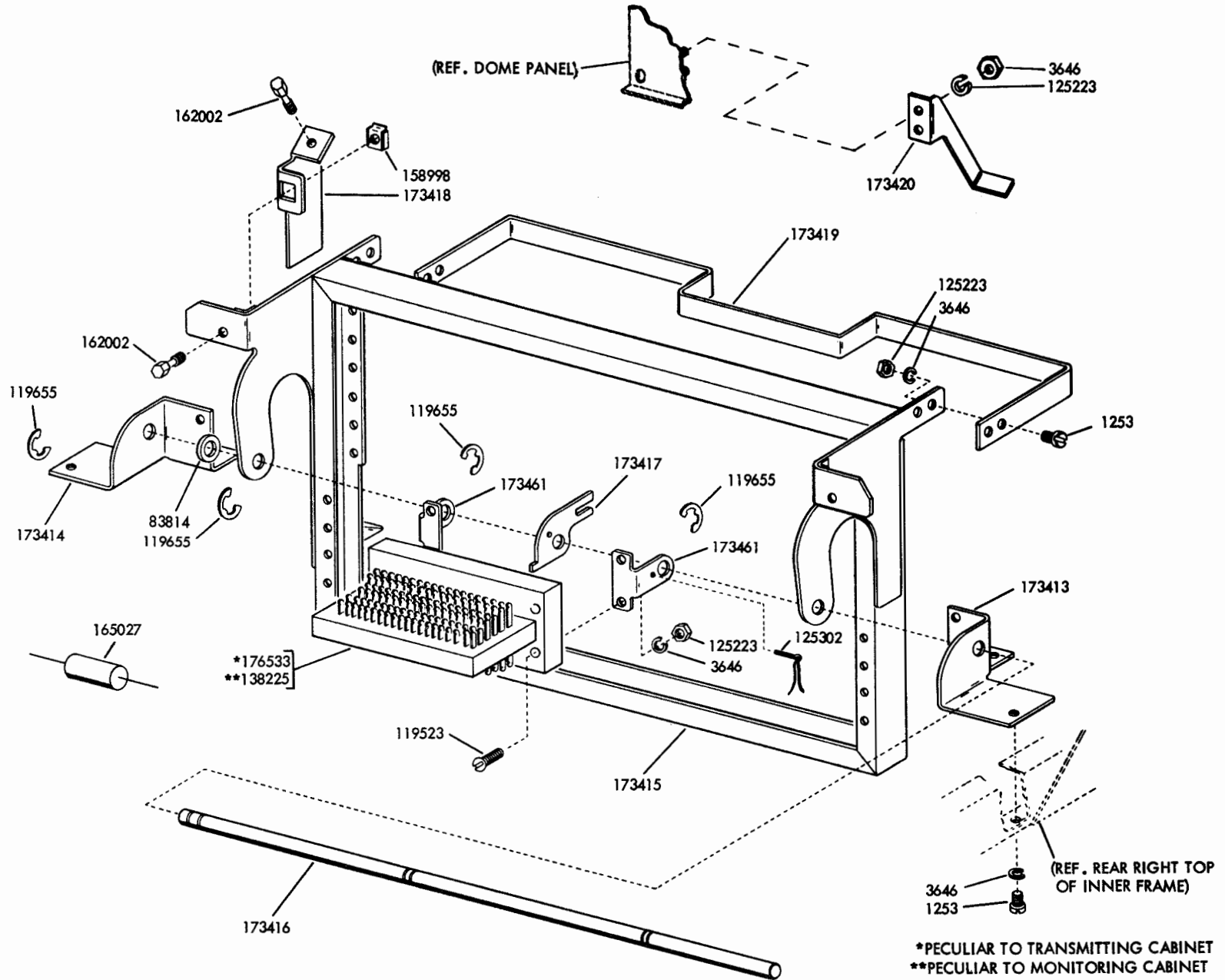


FIGURE 4-15. MOUNTING RACK FRAME



11698

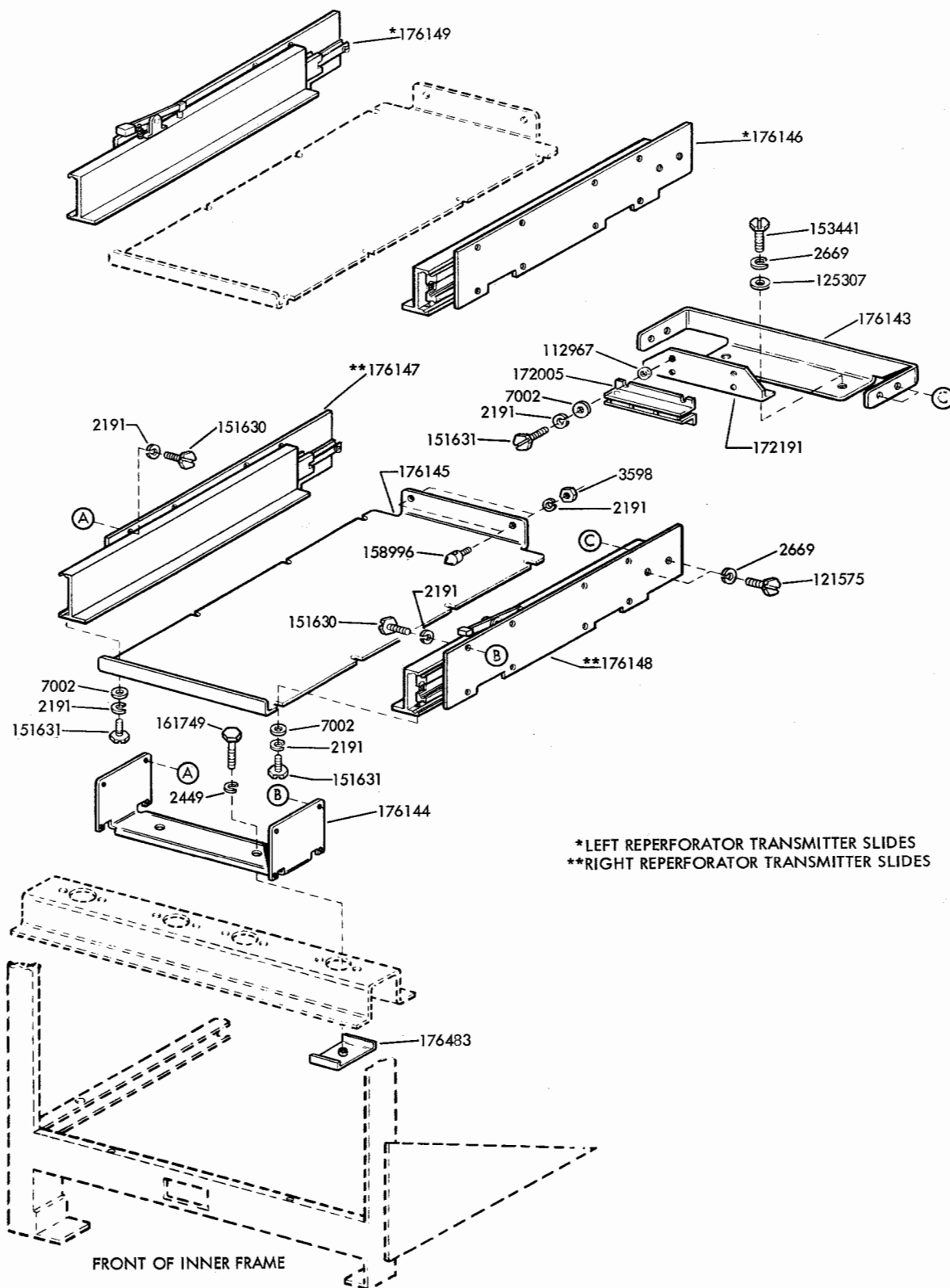


FIGURE 4-16. 176139 MODIFICATION KIT TO ADD BALL BEARING SLIDES FOR REPERFORATOR TRANSMITTER SETS

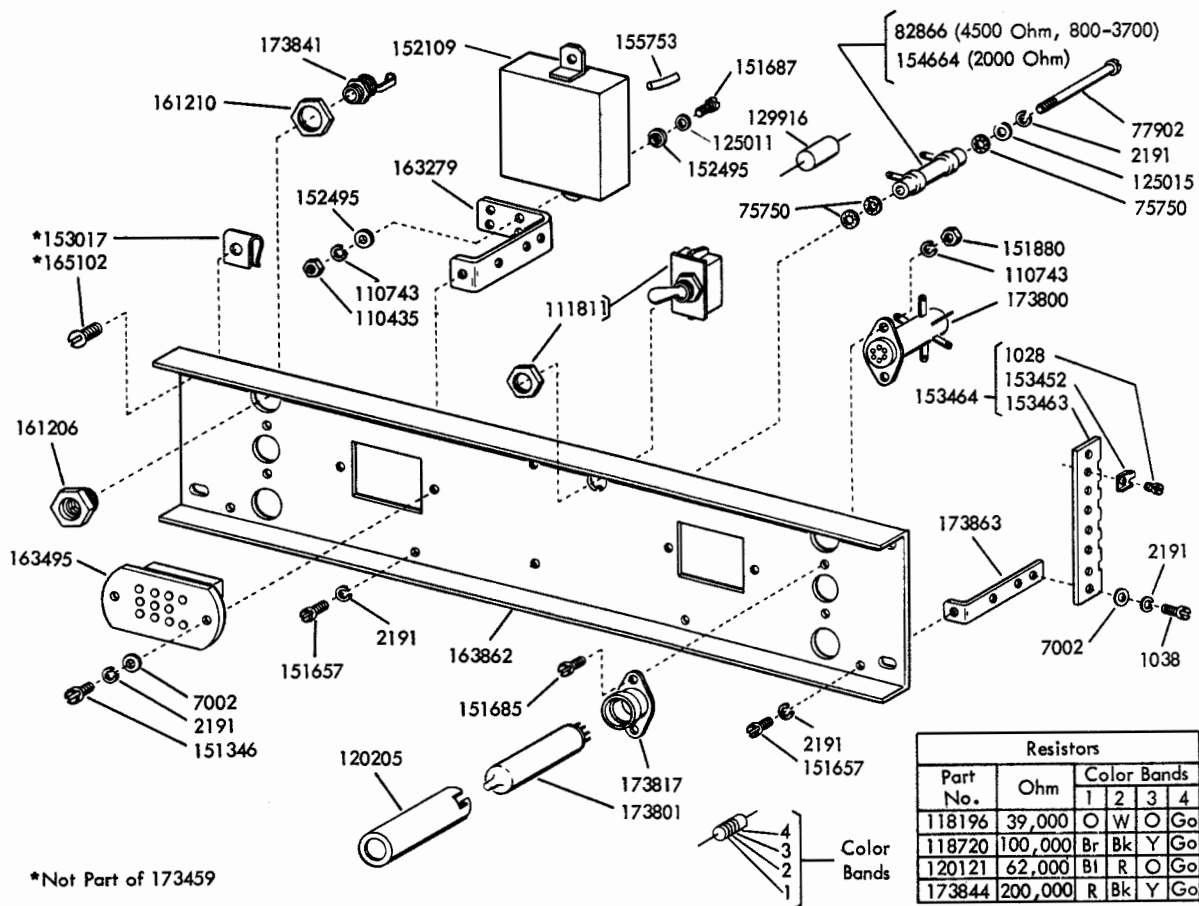


FIGURE 4-17. 173459 ELECTRONIC KEYSER PLATE ASSEMBLY

1168B

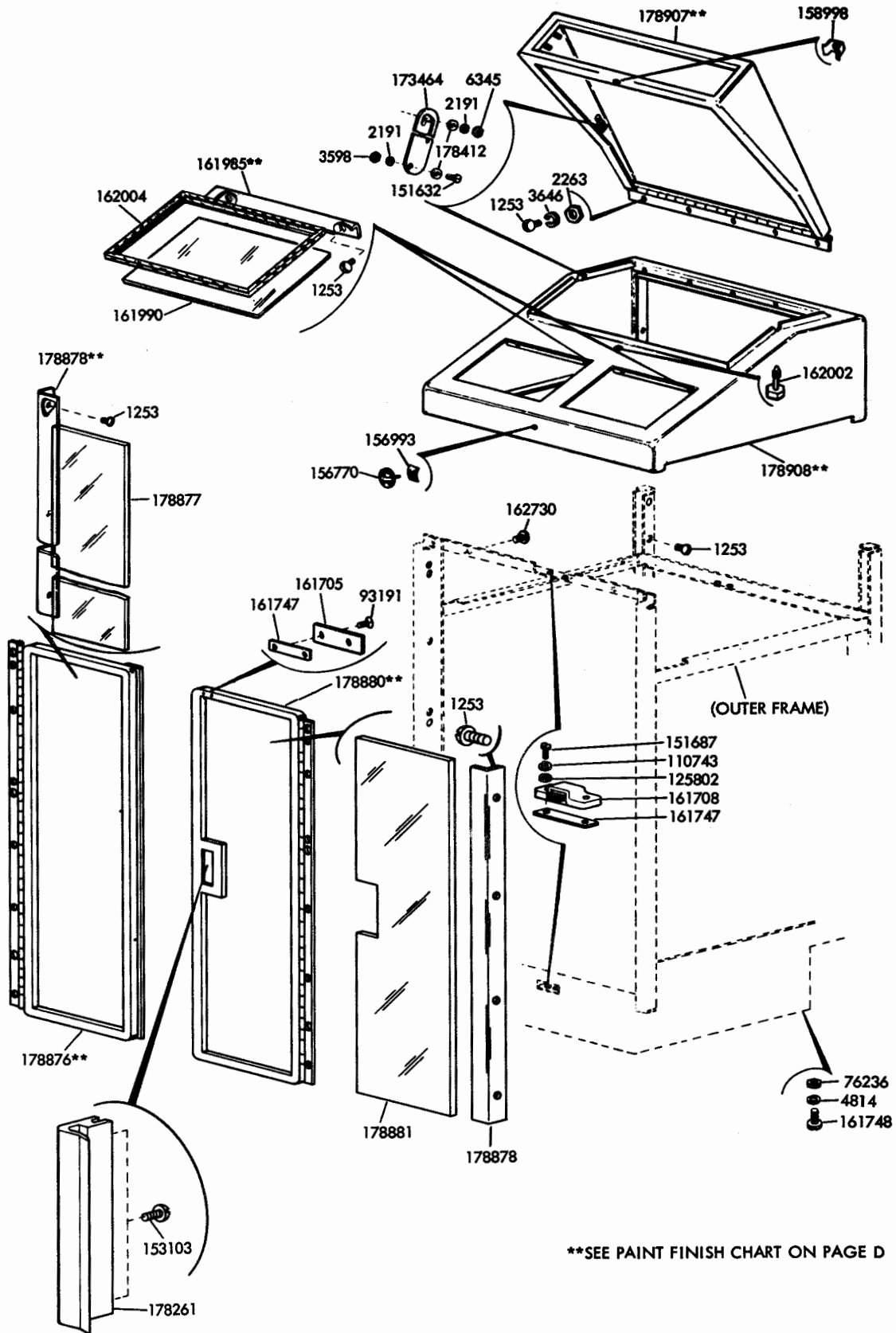


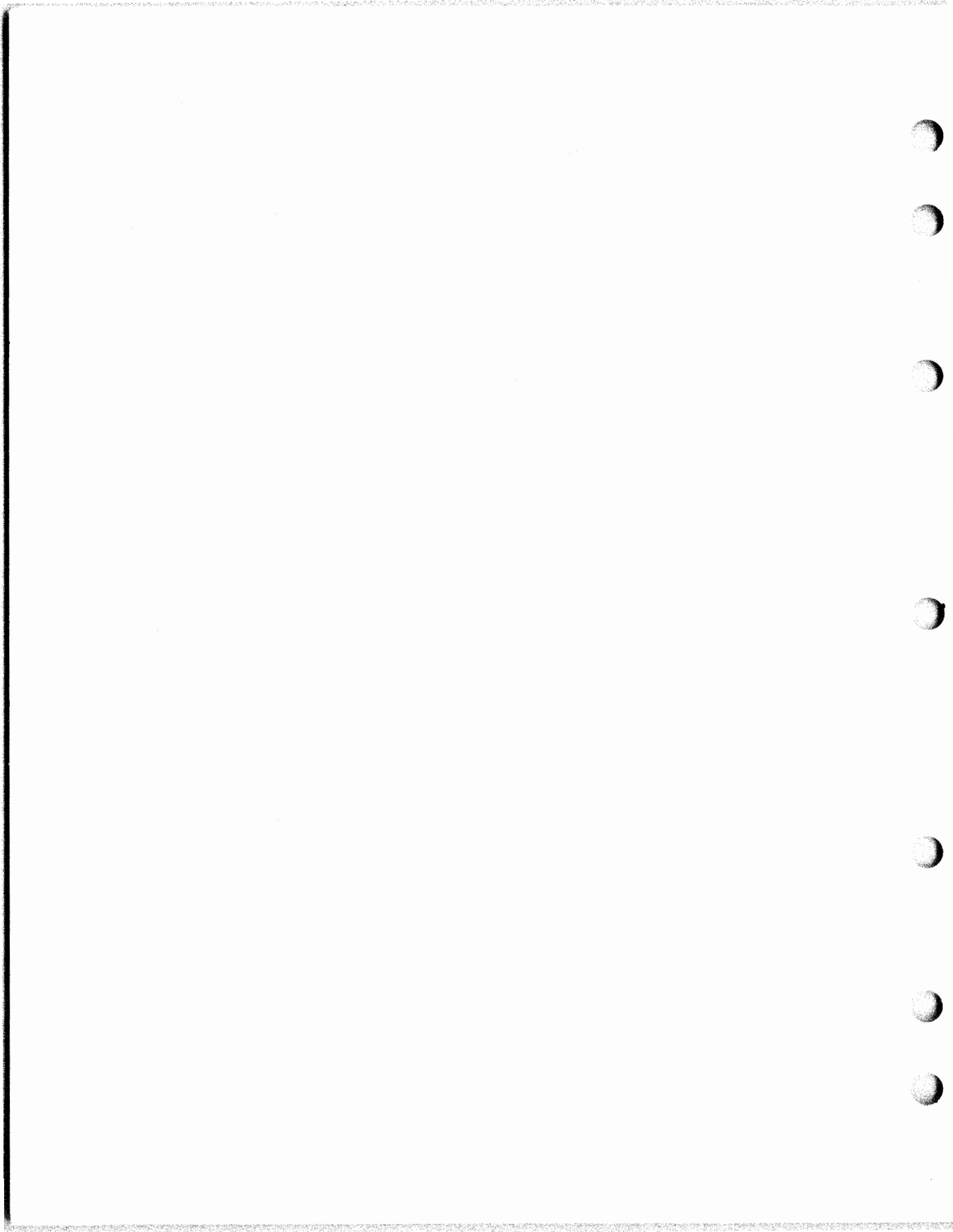
FIGURE 4-18. FRONT DOORS AND DOME

NUMERICAL INDEX - SECTION 4

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1028	Screw (4-40 x 1/4 Fil) 4-8,4-18	93001	Washer, Flat 4-2,4-19	125307	Washer, Flat 4-17
1030	Screw, Shoulder (6-40) 4-2,4-19	93191	Screw (4-40 x 5/16 Flat) 4-2,4-4,4-19	125802	Washer, Flat 4-2,4-3,4-4,4-19
1038	Screw (6-40 x 9/32 Fil) 4-9, 4-18	93711	Resistor (200 ohms) 4-10	129098	Screw (6-40 x 11/32 Flat) 4-8
1248	Screw (6-40 x 1/2 Flat) 4-14	93959	Key 4-15	129381	Grommet, Rubber 4-13
1253	Screw (8-32 x 3/8 Rd) 4-2,4-3,4-4,4-16	94338	Resistor (5000 ohms) 4-14	129487	Resistor (500 ohms) 4-10
1264	Screw (10-32 x 1/2 Flat) 4-5	95238	Resistor (1500 ohms) 4-9	129916	Capacitor (.1 mfd) 4-18
2191	Washer, Lock 4-2 to 4-10,4-12,4-14,4-15,4-17,4-18,4-19	95971	Screw (4-40 x 1/2 Flat) 4-15	129919	Fuse (4 Amp) 4-6,4-10
2263	Nut (8-32 Hex) 4-2	97194	Jumper (8" Black) 4-13	131099	Terminal 4-12
2449	Washer, Lock 4-3,4-5,4-6,4-7,4-11,4-17	98819	Knob 4-9,4-10	135575	Terminal 4-13
2658	Nut (6-32 Hex) 4-14	99802	Plate 4-8	138191	Screw (3-48 x 1 Rd) 4-8,4-14
2669	Washer, Lock 4-5,4-11,4-13,4-17	99803	Insulator (.094") 4-8	138225	Block, Terminal 4-7,4-16
3595	Nut (1/4-32 Hex) 4-5	99804	Insulator (.062") 4-8	139158	Connector, Receptacle (Duplex) 4-13
3598	Nut (6-40 Hex) 4-2,4-5,4-7,4-8,4-12,4-13,4-14,4-17,4-19	99805	Plunger 4-8	150040	Screw (6-40 x 5/8 Fil) 4-14
3599	Nut (4-40 Hex) 4-13,4-15	99806	Bracket 4-8	151335	Stud 4-8,4-14
3606	Nut (6-40 Hex) 4-6	99807	Spring, Contact 4-8	151346	Screw (6-40 x 3/8 Fil) 4-6,4-9,4-18
3610	Spring 4-5	99809	Spring, Contact 4-8	151411	Block, Terminal 4-6,4-8,4-10,4-12,4-14
3646	Washer, Lock 4-2,4-6,4-7,4-11,4-12,4-16,4-19	101976	Connector, Plug (33 Pt) 4-12	151412	Insulator (1-9) 4-6, 4-8, 4-10, 4-12, 4-14
4814	Washer, Lock 4-2,4-19	102460	Socket, Lamp 4-15	151416	Nut (6-40 Hex) 4-6,4-8,4-10,4-12,4-14,4-18
6345	Nut (6-32 Hex) 4-2,4-19	102621	Connector, Receptacle (33 Pt) 4-13	151422	Connector, Receptacle (2 Pt) 4-6
6827	Block 4-8, 4-14	102622	Key 4-15	151427	Plate, Clamp 4-14
7002	Washer, Flat 4-6 to 4-10,4-12,4-14,4-17,4-18	102623	Key 4-15	151442	Screw (6-40 x 1/2 Hex) 4-12
8185	Screw (1/4-20 x 3/4 Fil) 4-2	103081	Screw (1/4-20 x 1/2 Fil) 4-3	151626	Terminal 4-12,4-13
34432	Washer, Flat 4-11	103241	Block, Terminal 4-7	151630	Screw (6-40 x 1/4 Hex) 4-2,4-6,4-8,4-10,4-12,4-14,4-17
35551	Screw (10-32 x 3/8 Fil) 4-5	103588	Screw (6-40 x 1/8 Hex) 4-10	151631	Screw (6-40 x 5/16 Hex) 4-5,4-12,4-17
44048	Washer, Flat 4-12	107116	Washer, Lock 4-13	151632	Screw (6-40 x 3/8 Hex) 4-2,4-13,4-19
55219	Screw (8-32 x 3/8 Fil) 4-12	107246	Rheostat (5000 ohms) 4-9,4-10	151637	Screw (4-40 x 1/4 Fil) 4-12,4-13
74615	*Resistor (2000 ohms) 4-10	107393	Switch, Toggle (SP-ST) 4-7, 4-11	151657	Screw (6-40 x 1/4 Fil) 4-6,4-8,4-9,4-12,4-14,4-18
75231	Bushing, Insulating 4-8	107398	Terminal 4-13	151658	Screw (6-40 x 5/16 Fil) 4-12,4-15
75436	Resistor (3000 ohms) 4-14	108311	Nut (3-48 Hex) 4-13	151685	Screw (4-40 x 5/16 Fil) 4-12, 4-18
75750	Washer, Insulating 4-6, 4-8, 4-9, 4-10, 4-18	110435	Nut (4-40 Hex) 4-18	151686	Screw (4-40 x 3/8 Fil) 4-4,4-12
76099	Washer, Flat 4-12	110743	Washer, Lock 4-2 to 4-5,4-12,4-13,4-15,4-18,4-19	151687	Screw (4-40 x 7/16 Hex) 4-2,4-3,4-4,4-18,4-19
76236	Nut (5/16-18 Hex) 4-2,4-19	110750	Relay 4-10	151691	Screw (10-32 x 3/8 Fil) 4-13
76862	Screw (1/4-20 x 1 Rd) 4-2	111017	Screw (6-40 x 5/16 Fil) 4-6,4-8,4-10,4-12,4-14	151693	Screw (6-40 x 9/16 Hex) 4-6,4-10,4-13
77902	Screw (6-40 x 2-3/8 Rd) 4-6,4-8,4-9,4-10,4-14,4-18	111811	Switch, Toggle 4-18	151723	Screw (10-32 x 3/8 Hex) 4-11
79152	Lamp 4-15	112626	Nut (10-32 Hex) 4-5,4-11,4-13	151808	Relay (1250 ohms) 4-6
79523	Screw (2-56 x 25/32 Fil) 4-8	112801	Stud 4-7	151813	Cover 4-6
79967	Insulator 4-6	112967	Washer, Flat 4-17	151814	Bracket 4-6
80509	Post, Spring 4-5	114466	Connector, Receptacle (2 Pt) 4-7,4-11,4-13	151819	Jumper (3" Black) 4-2
81823	Screw (4-40 x 1-3/32 Flat) 4-15	114479	Rheostat (1500 ohms) 4-9,4-10	151827	Strap, Terminal 4-6,4-10
82250	Resistor (650 ohms) 4-10	115407	Post 4-8,4-10	151880	Nut (4-40 Hex) 4-18
82284	Resistor (70 ohms) 4-10	115594	Nut, Speed (8-32) 4-3	151939	Grommet, Rubber 4-6,4-10
82474	Terminal 4-13	116783	Holder, Fuse 4-6,4-10,4-13,4-14	152109	Filter 4-8,4-9,4-18
82516	Spring, Retaining 4-8, 4-14	116785	Fuse (.3 amp) 4-10	152110	Bracket 4-9
82866	Resistor (4500 ohms) 4-9,4-10,4-18	118196	Resistor (39,000 ohms) 4-18	152124	Spacer 4-8,4-14
82988	Screw (6-40 x 2-1/2 Rd) 4-8	118720	Resistor (100,000 ohms) 4-18	152495	Bushing 4-18
83814	Washer, Flat 4-16	118865	Cover 4-2	152755	Strap, Terminal 4-6,4-10
85791	Washer, Flat 4-5	119523	Screw (8-32 x 3/4 Rd) 4-7,4-16	153017	Nut, Speed (12-24) 4-6,4-8,4-9,4-10,4-14,4-18
86434	Screw (1/4-32 x 3/4 Fil) 4-5	119655	Ring, Retaining 4-16	153103	Screw, Self-Tapping (4-40) 4-19
87477	Resistor (1000 ohms) 4-10	120121	Resistor (62,000 ohms) 4-18	153441	Screw (10-32 x 7/16 Hex) 4-17
88083	Resistor (100 ohms) 4-10	120154	Capacitor (25 mfd) 4-14	153452	Terminal 4-8,4-18
89548	Spring, Contact 4-8, 4-14	120166	Fuse (2 Amp) 4-6,4-10	153463	Block, Terminal 4-8,4-18
90789	Washer, Flat 4-14	120205	Shield, Tube 4-18	153464	Block, Terminal 4-8,4-9,4-18
91683	Nut (15/32-32 Hex) 4-7,4-11	121247	Clamp, Cable (7/16" ID) 4-12	153480	Resistor (6750 ohms) 4-8,4-10
91684	Nut (15/32-32 Ring) 4-7,4-11	121249	Clamp, Cable (5/8" ID)	153481	Resistor (5800 ohms) 4-8,4-14
92146	Nut (1/4-20 Hex) 4-2,4-3,4-5,4-6,4-11	121575	Screw (10-32 x 5/16 Hex) 4-17		
92260	Washer, Lock 4-14	125011	Washer, Flat 4-15,4-18		
		125015	Washer, Flat 4-8,4-9,4-10,4-14,4-18		
		125223	Nut (8-32 Hex) 4-7,4-11,4-12,4-16		
		125302	Pin, Cotter 4-7,4-16		

NUMERICAL INDEX - SECTION 4 (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
153537	Screw (6-40 x 9/32 Hex) 4-7	161995	Bracket, Terminal Block 4-7	172734	Bracket 4-12
153631	Network, Spark Suppression 4-12	161996	Frame, Mounting 4-6	172737	Panel, Control 4-15
153819	Washer, Lock 4-13	161997	Frame, Mounting Rack 4-6	172738	Cover, Designation 4-15
154664	Resistor (2000 ohms) 4-9, 4-18	161999**	Modification Kit 4-3	172739	Cable Assembly 4-13
155751	Sleeve, Insulating (1/8 ID x 1" Lg) 4-13	162000**	Frame, Top 4-2	172740	Cable Assembly 4-13
155753	Sleeve, Insulating (1/8 ID x 1/2" Lg) 4-18	162001**	Dome 4-2	172741	Shelf 4-12
156768	Screw (8-32 x 9/32 Hex) 4-6	162002	Screw, Captive (1/4-20) 4-2, 4-16, 4-19	172742	Bracket, Shelf 4-12
156770	Plate, Identification (Teletype) 4-2, 4-19	162004	Gasket 4-2, 4-19	172743	Bracket, Relay 4-14
156993	Nut, Speed 4-2	162005**	Bracket, Clip 4-2	172745	Bushing (.406" Lg) 4-15
157225	Resistor (2000 ohms) 4-14	162006	Bracket 4-6	172746	Bushing (.703" Lg) 4-15
158281	Connector, Plug (32 Pt) 4-12	162007	Panel, Control 4-7	172747	Cable Assembly 4-12
158283	Connector, Receptacle (32 Pt) 4-12	162011	Channel, Stop 4-5	172748	Clamp, Cable 4-12
158286	Transformer 4-10	162070	Plate, Mounting 4-6	172781	Socket 4-12
158287	Transformer Assembly 4-6, 4-10	162195	Arm, Slide 4-2, 4-19	172782	Cable Assembly 4-13
158996	Stud 4-5, 4-17	162357	Capacitor (500 mfd) 4-6, 4-10, 4-14	172783	Cable Assembly 4-13
158998	Retainer, Speed Nut 4-7 4-16, 4-19	162358	Diode, Silicon 4-6, 4-10, 4-14	172897	Handle 4-12
159232	Screw, Captive (1/4-20) 4-6	162359	Transformer 4-6, 4-10, 4-14	172904	Cable w/Terminals 4-13
159819	Connector, Plug (32 Pt) 4-7, 4-11	162360	Fuse (.8 Amp) 4-6, 4-10	172937	Cap, Lamp (White) 4-14
159820	Connector, Receptacle (32 Pt) 4-7, 4-11	162670	Light, Pilot (Red) 4-7, 4-11	172949	Jumper (70" Green) 4-13
160229	Plate, Mounting 4-14	162671	Light, Pilot (Amber) 4-7, 4-11	172951	Connector, Receptacle (6 Pt) 4-13
160284	Resistor (5500 ohms) 4-8	162672	Plate, Relay 4-8	172952	Connector, Plug (6 Pt) 4-12
160386	Resistor (1000 ohms) 4-6 4-10	162678	Contact Assembly, Line Shunt 4-8	173394	Hanger, Cable 4-12
160865	Screw (4-40 x 7/8 Flat) 4-15	162680	Switch, Push 4-7, 4-11	173413	Bracket, Right Mounting 4-16
161085	Relay 4-6	162682	Lamp, Incandescent (Clear) 4-7, 4-11	173414	Bracket, Left Mounting 4-16
161086	Relay 4-6	162692	Pin, Hinge 4-7	173415	Frame, Mounting Rack 4-16
161087	Insulator (1-6) 4-7	162730	Screw (1/4-20 x 7/16 Hex) 4-6, 4-7, 4-11	173416	Shaft 4-17
161206	Bushing, Insulating 4-18	162739	Bracket, Terminal Board 4-7	173417	Plate, Locating 4-16
161210	Nut (11/16 x 32 Hex) 4-18	162818	Cable Assembly 4-7	173418	Bracket, Left Anchor 4-16
161705	Strike, Fastener 4-2, 4-4, 4-19	162865	Spacer 4-8	173419	Handle 4-16
161706**	Door, Right Rear 4-4	163163	Pad 4-2	173420	Arm, Stop 4-16
161707**	Door, Left Rear 4-4	163279	Bracket, Mounting 4-8, 4-18	173421	Bracket, Rectifier Mounting 4-11
161708	Latch, Magnetic 4-2, 4-3, 4-4, 4-19	163484	Relay 4-10	173459	Plate Assembly 4-18
161711	Block, Guide 4-5	163487	Plate, Rectifier 4-11	173461	Bracket, Terminal Block 4-16
161712	Latch, Lever 4-5	163488	Relay 4-10	173464	Arm 4-2, 4-19
161713	Bushing, Shoulder 4-5	163489	Relay 4-10	173800	Turret, Socket 4-18
161716	Block, Support 4-5	163491	Capacitor (250 mfd) 4-10	173801	Tube, Vacuum 4-18
161725	Channel, Front 4-5	163492	Relay 4-10	173817	Base, Tube Shield 4-18
161726	Mount, Vibration 4-5	163493	Light, Pilot (White) 4-11	173841	Jack 4-18
161728	Support, Channel 4-5	163494	Plate, Mounting 4-10	173844	Resistor (200,000 ohms) 4-18
161730	Frame, Mounting 4-5	163495	Base, Mounting 4-9, 4-18	173863	Bracket, Mounting 4-18
161731	Plate, Cover 4-3	163496	Panel, Control 4-11	174009	Diode 4-10
161733**	Door, Left 4-2	163972	Strip, Fuse Mounting 4-13	174456	Plate, Nut 4-2
161734	Window 4-2	163983	Plate, Relay 4-9	176139	Modification Kit 4-17
161736**	Door, Right 4-2	163988	Cable Assembly 4-11	176143	Bracket 4-17
161746	Channel, Rear 4-5	164093	Panel, Control 4-11	176144	Bracket 4-17
161747	Plate, Nut 4-2, 4-3, 4-4, 4-19	164427	Clip, Capacitor 4-10	176145	Tray 4-17
161748	Screw (5/16-18 x 5/8 Flat) 4-2, 4-19	164751	Box, Junction 4-13	176146	Slide, Right (Left RT Set) 4-17
161749	Screw (1/4-20 x 1-1/2 Hex) 4-5, 4-17	164752	Plate, Cover 4-13	176147	Slide, Left (Right RT Set) 4-17
161752	Channel, Duct 4-3	165027	Network, Spark Suppression 4-16	176148	Slide, Right (Right RT Set) 4-17
161753**	Panel, Left Side 4-3	165073	Diode 4-12	176149	Slide, Left (Left RT Set) 4-17
161754**	Panel, Right Side 4-3	165102	Screw (12-24 x 3/8 Rd) 4-6, 4-8, 4-9, 4-10, 4-14, 4-18	176483	Channel, Stop 4-17
161985**	Bracket, Clip 4-2, 4-19	172005	Latch, Magnetic 4-17	176533	Block, Terminal 4-16
161986	Cover, Duct 4-3	172191	Bracket, Latch 4-17	176541	Capacitor (3 mfd) 4-10
161987	Plate, Duct 4-3	172686	Relay 4-12	178261	Handle, Door 4-19
161990	Window 4-2, 4-19	172688	Resistor (3900 ohms) 4-12	178363	Post 4-8
161991	Window 4-2	172689	Resistor (4300 ohms) 4-12	178412	Bushing 4-2, 4-19
161994	Bracket, Terminal Block 4-7	172690	Resistor (5100 ohms) 4-12	178876**	Door, Left 4-19
		172726	Resistor (250 ohms) 4-12	178877	Window 4-19
		172727	Post, Cover Mounting 4-12	178878**	Bracket, Clip 4-19
		172729	Plate, Mounting 4-12	178880**	Door, Right 4-19
		172733	Plate, Relay 4-12	178881	Window 4-19
				178907**	Cover 4-19
				178908**	Frame, Top 4-19



SECTION 5

NOTES OF EXPLANATION

CONVERSION AND MODIFICATION KITS

NOTES OF EXPLANATION

Note 1: The 164598** Bin Assembly is equipped with a bin full alarm switch. The 179181** Bin Assembly is equipped with a slot for viewing the tape capacity without removal of the tape handling stand from the cabinet. The 160673** Bin Assembly has neither of these features.

These bins are approximately 24-3/8" long by 14" wide, equipped with clear laminated glass and are for use only with chadless tape.

Note 2: The 173718** Bin Assembly is equipped with bin full alarm switch, the 170800** Bin Assembly is not.

These bins are approximately 24-3/8" long by 14" wide, equipped with clear laminated glass and a chad box for use with fully perforated tape.

Note 3: The 174626** Bin Assembly has the bin full alarm switch centrally located in the frame base. The 190328** Bin Assembly has the switch located at the rear.

These bins are approximately 36-3/4" long by 23-1/4" wide, equipped with ribbed plexiglass and a chad box for use with fully perforated tape.

Note 4: The 178234** Bin Assembly is approximately 24-3/8" long by 14" wide, equipped with ribbed plexiglass and a chad box for use with fully perforated tape.

Note 5: The 172907 (1/8" thick) and 158739 (.050" thick) spacers are used in place of a gear in this position.

Note 6: The 158738 (.032" thick) and 158739 (.050" thick) spacers are required with Early Design gears. The New Style gear has a shoulder which replaces the spacer.

Note 7: The New Design 178396 bracket replaces both Early Design 158746 (transmitting) and 158749 (receiving) brackets. Orders for the Early Design parts will be filled with the New Design 178396 bracket which is used in both the transmitting and receiving positions.

The 172784 bracket is peculiar to the special square base used in the AC205** Cabinet application. See Figures 2-13 and 2-14 for associated parts.

Note 8: The 190596 Bin Assembly is approximately 36-1/2" long by 18-3/4" wide, equipped with ribbed plexiglass and for use with fully perforated tape.

MODIFICATION KITS

Kit Number	Part Number	Description	Quantity	Page
173005	Special Maintenance Parts Kit for LTHS200 and 201			
	76396	Washer, Felt	2	1-5
	98203	Gear, Drive (144T)	1	1-10
	98223	Cam, Stop	1	1-5
	126912	Lever, Stop	1	1-6
	150990	Washer, Felt	1	1-6
	153577	Washer, Felt	1	1-6
	158980	Bearing, Drive Shaft	1	1-6
	158997	Belt, Drive	1	1-6
176176	Modification Kit to Provide Drive Parts for Low Speed Tape Handling Stand			
	176177	Plate, Front	1	1-19
	170820	Plate, Mounting	1	1-19
	170817	Lever	1	1-19
	172291	Screw, Shoulder	1	1-19
	170824	Stud	1	1-19
	170825	Bearing	1	1-19
	176178	Pulley	1	1-19
	172293	Plate, Bearing - Outer	1	1-19
	171179	Belt	1	1-19
	174336	Reservoir	1	1-19
	174337	Holder, Wick	1	1-19
	174338	Wick	1	1-19
	179204	Bracket W/Stud	1	1-19
	179209	Gear	1	1-19
	179208	Pulley W/Gear	1	1-19
	179206	Bracket W/Stud	1	1-19
	172292	Plate, Bearing - Inner	1	1-17
	158964	Bracket	1	1-3
	179395	Rod Assembly	1	1-19
	179211	Gear W/Disc (80T)	1	1-11
	2191	Washer, Lock	12	1-19
	7002	Washer, Flat	3	1-19
	112626	Nut (10-32 Hex)	3	1-19
	90504	Washer, Felt	1	1-19
	151721	Screw (6-40 x 3/4 Hex)	3	1-19
	151631	Screw (6-40 x 1/4 Hex)	3	1-19
	76461	Washer, Flat	2	1-17
	151630	Screw (6-40 x 1/4 Hex)	2	1-19
	151610	Washer, Flat	2	1-19
	153537	Screw (6-40 x 9/32 Hex)	2	1-19
	3606	Nut (6-40 Hex)	1	1-19
	101633	Washer, Flat	1	1-19
	119655	Ring, Retainer	1	1-19
	76474	Nut (10-32)	1	1-16
179746	Modification Kit to Provide a Molded Pulley and Gear for High Speed Tape Handling Stand			
	179206	Bracket W/Stud	1	1-19
	179208	Pulley W/Gear	1	1-19
	179211	Gear	1	1-11
	101633	Washer, Flat	1	1-19
179175	Modification Kit to Provide Parts to Improve Tape Visibility in Bins of LTHS			
	179178**	Frame, Tape Storage	1	1-7
	179177	Channel, Mounting	1	1-7
	179176	Liner	1	1-7
179382	Modification Kit to Provide a Gear Guard for Tape Handling Stands			
	179381**	Guard, Gear	1	1-12



SECTION 6

NUMERICAL INDEX

MASTER NUMERICAL INDEX

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
1028	4-8,4-18	61085	3-6	86434	4-5	102460	4-15
1030	4-2,4-19	70073	1-22,1-28	86850	2-2,2-10,2-14	102621	4-13
1038	4-8,4-9,4-18	70314	See Section Indexes	86873	1-27	102622	4-15
1046	1-9	70497	1-5	87334	3-2,3-3,3-8	102623	4-15
1113	2-11,2-22	70886	2-5	87477	4-10	102629	1-2,2-7
1156	1-24,2-13	71840	1-27	88083	4-10	102999	2-22
1163	2-2,2-14	71999	3-2,3-3,3-4,3-8	89406	1-29	103081	4-3
1178	1-22,1-26,1-28,2-22	72088	1-14,1-16	89548	4-8,4-14	103241	4-7
1186	1-14	72468	1-4	89897	1-27	103588	4-10
1189	1-14	73175	1-7,1-15,1-25,2-10	89996	1-14	104302	1-10
1205	1-22,1-28	73374	3-6	90033	1-13	104418	2-22
1248	4-14	74011	1-20	90480	1-5	104444	1-14
1253	4-2,4-3,4-4,4-16,4-19	74283	1-10,1-11,1-29	90504	1-16,1-19	104463	1-28,2-22
1264	4-5	74615	4-10	90511	See Section Indexes	104564	2-3
1268	2-9	74692	2-13	90606	2-17	104807	2-11
1298	2-9	74728	1-14,2-8	90789	4-14	106047	2-8
2034	2-2,2-8	74754	1-14	90791	1-21,1-22,1-28,2-12,2-21	106058	2-10
2191	See Section Indexes	74805	2-2,2-14	90806	4-8	107116	4-13
2199	1-6	75231	4-8	91228	3-7	107246	4-9,4-10
2254	2-9	75436	4-14	91683	4-7,4-11	107393	4-7,4-11
2263	3-2,3-3,3-8,4-2	75750	2-9,4-8,4-9,4-10,4-18	91684	4-7,4-11	107398	4-13
2422	2-13	76081	2-8,2-22	91837	3-4	108311	4-13
2449	See Section Indexes	76086	1-5	92146	4-2,4-3,4-5,4-6,4-11	108950	2-8
2539	2-10	76099	2-15,4-12	92260	2-3,2-4,2-5,2-10,2-17,3-4,4-14	108959	2-2,2-15
2658	4-14	76236	4-2,4-19	93001	4-2,4-19	110126	1-7,1-15,1-25
2669	See Section Indexes	76279	2-14	93117	1-24,1-26,2-10,2-17,2-22	110334	1-29
2846	1-26,2-11,2-22	76395	1-5	93191	4-2,4-4,4-19	110435	3-7,4-8
3436	2-14	76396	1-5	93582	1-5,1-16,1-27	110743	See Section Indexes
3438	See Section Indexes	76450	1-5	93711	4-10	110750	4-10
3595	2-5,4-5	76461	1-17	93959	4-15	111017	2-2,2-9,2-11,2-15,2-16,4-6,4-8,4-10,4-12,4-14
3598	See Section Indexes	76474	1-14,1-16	94338	4-14	111062	3-5
3599	1-13,2-6,2-7,2-23,4-13,4-15	76492	2-15	94540	2-15	111085	1-13
3606	See Section Indexes	76862	4-2	95238	4-9	111086	1-13
3610	4-5	77140	1-5	95291	4-15	111516	2-15
3624	1-24,2-13,2-17,2-22,3-6	77351	1-27	95971	4-15	111535	2-13
3640	See Section Indexes	77902	See Section Indexes	96264R	3-2,3-3	111536	2-13
3646	See Section Indexes	78301	2-13	97194	4-13	111537	2-13
4703	2-22	78596	2-7,2-23	98203	1-10	111776	1-3,1-24
4814	1-5,4-2,4-19	79152	4-15	98209	1-5	111777	1-24,2-18,2-19
5740	2-10,3-6	79523	4-8	98222	1-5	111811	4-18
6035	1-26	79967	4-6	98223	1-5	112498	See Section Indexes
6320	3-5	80273	1-27	98642	3-4	112620	1-3
6345	3-4,3-5,4-2,4-19	80334	1-13	98712	3-5	112626	1-6,1-19,1-22,1-27,4-5,4-11,4-13
6827	4-8,4-14	80509	4-5	98725	1-7,1-15,1-25	112627	1-24,1-28,3-6
6970	1-7,1-15,1-25	80612	1-23	98819	4-9,4-10	112801	4-7
6994	1-5	80755	1-13	98832	1-13	112819	1-11,1-29
7002	See Section Indexes	81823	4-15	99712	See Section Indexes	112967	4-17
7599	1-26	81836	2-9	99802	4-8	113038	2-8
7615	2-8	82250	4-10	99803	4-8	114125	2-3
7634	1-5	82284	4-10	99804	4-8	114466	4-7,4-11,4-13
7825	1-5	82414	1-7,1-8,1-15,1-22,1-25,1-28	99805	4-8	114467	2-18
8185	4-2	82474	1-23,2-14,2-18,2-19,4-13	99806	4-8	114479	4-9,4-10
8330	2-2,2-8	82516	4-8,4-14	99807	4-8	114858	2-18,2-19
8449	2-17,3-6,3-7	82547	1-13,1-14,2-8	99809	4-8	114859	1-18
8567	1-27	82548	1-13,1-14,2-8	99978	1-24	115407	4-8,4-10
34432	1-9,4-11	82702	See Section Indexes	100658	1-13,1-20	115535	1-22,1-25
34439	1-26,1-28	82860	1-27	100743	3-6,3-7	115594	4-3
35551	1-4,1-11,1-27,1-29,4-5	82866	4-9,4-10,4-19	100831	1-26	116783	1-14,1-23,2-14,4-6,4-10,4-13,4-14
36273	1-24	82866	4-9,4-10,4-19	101633	1-19	116785	4-10
36463	1-27	82988	4-8	101965	2-14	117535	2-2,2-10,2-14
41663	1-10,1-11,1-29	83814	4-16	101976	4-12	118196	4-18
41732	See Section Indexes	83856	2-8	101981	1-25	118511	2-14
41974	1-4	83877	2-17	102017	1-10,1-11	118578	1-23
44048	4-12	84040	1-14	102092	3-7	118579	2-18
45026	2-10	84579	1-27	102202	2-14	118609	1-14,1-23
55010	1-5	84990	1-22	102212	1-4	118720	4-18
55063	2-13	84990	1-22	102213	1-4	118865	4-2
55219	4-12	85791	4-5	102214	1-4		
		85931	1-5	102257	2-14		
		85935	1-4,1-5				

MASTER NUMERICAL INDEX (Continued)

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
119119	2-22	125245	1-10	150411	2-9	151630	See Section Indexes
119223	3-2, 3-8	125302	4-7, 4-16	150536	1-11	151631	See Section Indexes
119242	2-8	125307	4-17	150845	3-5	151632	See Section Indexes
119376	2-10	125315	1-23	150849	3-5	151636	2-7, 2-9
119467	1-24, 2-13, 2-17	125733	2-6, 2-7, 2-23	150850	3-5	151637	1-14, 3-2, 3-3, 3-5, 3-8, 4-12, 4-13
119523	4-7, 4-16	125802	1-28, 4-2 to 4-4, 4-19	150853	3-5		
119648	1-27	126901	1-4	150856	3-5	151639	1-16
119649	1-9, 1-13, 1-27, 2-8	126902	1-4	150857	3-5	151642	3-4
119651	1-22, 1-25, 1-28, 2-3, 2-10	126912	1-6	150858	3-5	151652	2-9
119652	See Section Indexes	126914	1-4	150859	3-5	151657	See Section Indexes
119653	See Section Indexes	126915	1-5	150865	3-5	151658	(Sev.)
119655	1-16, 1-19, 1-27, 2-6, 2-7, 2-23, 4-16	126916	1-5	150866	3-5	151659	1-3, 1-25, 3-5
120121	4-18	126917	1-4	150868	3-5	151660	1-13, 1-15, 1-25, 2-2
120139	1-14	126918	1-10	150869	3-5	151661	3-4, 3-5, 3-6
120154	4-14	126920	1-10	150872	3-5	151685	1-3, 1-22, 4-12, 4-18
120166	4-6, 4-10	126924	1-10	150873	1-11, 3-4	151686	3-2, 3-3, 3-8, 4-4, 4-12
120175	2-2, 2-14	128272	1-28	150877	3-5	151687	3-7, 4-2, 4-3, 4-4, 4-18, 4-19
120205	4-18	128357	2-6, 2-7, 2-23	150879	3-5		
120870	1-27	128874	3-3	150880	3-4	151688	2-2
121242	2-2	129098	4-8	150881	3-4	151691	4-13
121243	1-2, 1-4, 2-2, 2-17	129381	4-13	150882	3-4	151692	See Section Indexes
121244	1-4, 2-9, 2-12	129487	4-10	150084	3-4	151693	1-3, 1-6, 4-6, 4-10, 4-13
121245	2-2, 2-8, 2-9, 2-14, 4-12	129852	2-9	150885	3-4		
121246	1-3, 1-20, 2-14	129916	4-18	150886	3-4	151696	4-12
121247	1-14, 2-2, 4-12	129919	4-6, 4-10	150948A	2-8	151721	1-15, 1-19, 2-17
121248	2-8	130499	2-3, 2-4, 2-6, 2-7, 2-23	150949	2-8	151722	See Section Indexes
121249	2-11, 2-14, 4-12	131099	4-12	150950	2-8	151723	See Section Indexes
121402	1-25	131301	1-6	150952	2-2, 2-14	151724	1-10
121575	1-9, 4-17	135038	1-26	150966	2-2, 2-9, 2-16	151732	2-3, 2-4, 2-10, 3-7
122201	3-2, 3-3, 3-4, 3-8	135575	4-13	150976	3-2, 3-3, 3-6, 3-8	151733	2-14
122202	3-4	135637	2-9	150980	3-6	151737	1-13
122204	3-4	138191	4-8, 4-14	150982	2-8	151795	3-3
122205	3-4	138225	4-7	150990	1-6	151808	4-6
122206	3-4	139158	4-13	150995	3-6, 3-7	151813	4-6
122208	3-4	139335	1-14, 1-23	150996	2-2	151814	4-6
122211	3-2, 3-3, 3-4, 3-8	142809	2-10	150997	3-5	151819	4-2
122220	3-2, 3-3, 3-4, 3-8	142955	2-10	151036	1-24	151827	1-18, 2-2, 4-6, 4-10
122229	3-2, 3-3, 3-8	142964	2-8, 2-9, 2-14	151113	2-14	151880	1-15, 1-24, 1-25, 4-18
122233	3-4	142965	2-8, 2-9	151152	1-3, 1-7, 1-15, 1-24, 1-25, 2-8, 2-15, 3-5	151920	3-3
122245	3-3	142966	2-8	151335	1-18, 1-26, 2-2, 2-9, 2-11, 2-15, 2-16, 4-8, 4-14	151922	3-3
122251	3-3	142970	1-28			151923	3-3
122252	3-2, 3-3, 3-8	143053	2-10			151924	3-3
123699	1-10, 1-11	146205	1-27			151925	3-3
123700	1-10, 1-11, 1-29	146212	1-29	151346	1-27	151926	3-2, 3-3, 3-8
123701	1-5	146221	1-29	151411	2-11, 4-6, 4-10, 4-12, 4-14	151927	3-2, 3-3, 3-8
123769	3-2, 3-3, 3-8	146225	1-26	151412	2-11, 4-6, 4-10, 4-12, 4-14	151939	4-6, 4-10
123814	2-13	146228	1-29			151982	1-20
123849	2-13	146236	1-29	151415	2-2, 2-9, 2-16	152109	4-8, 4-9, 4-18
123852	2-13	146240	1-29	151416	2-2, 2-9, 2-11, 2-15, 2-16, 4-6, 4-8, 4-10, 4-14, 4-18	152110	4-9
123853	2-13	146242	1-29			152124	4-8, 4-14
123910	2-13	146243	1-29	151422	2-3, 2-4, 2-6, 2-7, 2-10, 2-15, 4-6	152297	3-2, 3-3, 3-8
124177	2-3	146512	1-27			152441	1-4, 1-9
124184	2-13	146547	1-29			152459	3-6
124741	1-7, 1-15, 1-25	146951	2-5	151427	4-14	152495	3-5, 4-18
124993	2-13	146953	2-5	151442	See Section Indexes	152755	4-6, 4-10
124999	2-17	146954	2-5	151453	3-4	152887	2-9, 2-15
125005	2-8	146960	2-5	151455	3-4	152888	2-6, 2-7, 2-23
125006	1-10, 1-27	146961	2-5	151540	1-20	152893	See Section Indexes
125011	1-13, 1-22, 2-6, 2-11, 3-2, 3-3, 3-5, 3-8, 4-15, 4-18	146962	2-5	151574	1-20, 1-23	153017	4-6, 4-8, 4-9, 4-14, 4-18
125015	See Section Indexes	146963	2-5	151606	1-4, 2-10, 2-17	153030	3-2, 3-3, 3-4
125120	1-6	146964	2-5	151610	1-19	153031	3-4
125143	3-4	146967	1-23	151618	2-3, 2-14	153049	3-2, 3-3, 3-8
125181	1-21, 2-12, 2-21	148128	1-29	151620	3-2, 3-3, 3-4, 3-8	153101	3-4
125218	1-10, 1-11, 1-29	148257	1-23	151621	3-2, 3-3, 3-4, 3-8	153102	3-4
125223	4-7, 4-11, 4-12, 4-16	148281	1-23	151622	3-2, 3-3, 3-4, 3-8	153103	3-4, 4-19
125237	2-3	148282	1-23	151626	1-18, 1-21, 1-27, 2-9, 2-12, 2-17, 2-19, 2-21, 3-2, 3-3, 3-4, 3-9, 4-12, 4-13	153114	3-4
		150040	3-2, 3-3, 3-8, 4-14			153441	4-17
		150089	2-6, 2-7, 2-23			153442	1-2, 1-3, 1-16, 1-18, 1-26, 2-14
						153452	4-8, 4-18

MASTER NUMERICAL INDEX (Continued)

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
153463	4-8, 4-18	158702	2-6	158989	1-2, 1-18, 1-26	160306	3-2, 3-8
153464	4-8, 4-9, 4-18	158703	2-3, 2-4	158990	1-2	160386	4-6, 4-10
153480	4-8, 4-10	158704	2-4	158991	1-3	160471	1-10
153481	4-8, 4-14	158705	2-7, 2-23	158992	1-3	160472	1-10, 1-11
153484	1-26	158710	2-6	158995	1-3	160473	1-10
153492	1-7, 1-15	158711	2-6	158996	1-2, 1-26, 4-5, 4-17	160474	1-4, 1-16
153534	1-23	158712	2-3, 2-4	158997	1-6, 1-16	160475	1-6
153537	1-19, 1-22, 2-15, 4-7	158713	2-3, 2-4, 2-10	158998	1-2, 4-7, 4-16, 4-19	160476	2-20
153538	1-3	158714	2-6, 2-23	158999	1-4, 1-16	160477	2-20
153539	2-17	158716	2-3, 2-4	159104	2-6	160478**	1-12
153577	1-6	158717	2-2, 2-8, 2-12	159110	2-2	160479	1-12
153631	1-14, 2-9, 4-12	158718	2-2	159111	2-2	160482	1-7, 1-15, 1-25
153799	2-8, 2-9	158719	2-2, 2-8, 2-12	159198	1-10, 1-29	160483	1-7, 1-25
153817	1-28	158720	1-2, 1-27, 2-2, 2-8, 2-12	159199	1-5	160484	1-7, 1-15
153819	1-22, 1-26, 1-28, 2-9, 2-10, 4-13	158721	2-6	159200**	1-2	160485**	1-7, 1-15
153839	1-3, 1-16, 1-17	158722	2-4	159201	1-10	160652	1-7
153841	1-16, 2-3, 2-4	158723	2-3	159202**	1-8	160653	1-7
154406	1-18, 1-26, 1-28	158724	2-3	159203	1-3	160654	1-7, 1-15
154452	1-18, 1-26	158725	2-3	159204	1-3, 1-21, 2-18, 2-19	160655	1-7, 1-15, 1-25
154661	2-8	158727	2-3	159205	1-9	160656	1-7, 1-15, 1-25
154664	4-9, 4-18	158728	2-4	159206	1-9	160657	2-4
155595	3-2	158729	2-3	159207	1-9	160658	2-3, 2-4
155750	1-13, 1-14, 1-18, 1-20, 1-22, 1-26, 1-28, 2-18, 2-19, 2-21	158732	2-3, 2-4	159208	1-9	160660	2-4, 2-6
155751	1-14, 1-18, 2-14, 2-17, 4-13	158733	2-3, 2-4	159209	1-9	160661	2-20
155752	1-18, 1-22, 2-18, 2-19	158734	2-3, 2-4	159210	1-9	160757	1-3, 2-18
155753	1-3, 1-21, 1-24, 2-18, 2-19, 4-18	158735	2-2, 2-8	159211	1-3	160758	1-7, 1-15, 1-25
155754	1-26, 1-28, 2-18, 2-19	158736	2-3	159212	1-3	160759	1-7
155755	1-3, 1-27, 2-18	158737	2-3	159213	1-3, 1-14	160706	1-7, 1-8
156226	1-16, 2-4, 2-6, 2-23	158738	2-3, 5-2	159214	1-6	160761	1-7
156342	2-17	158739	2-3, 5-2	159215	1-9	160762**	1-7, 1-8
156448	2-17	158740	2-3	159216	1-2	160763**	1-7, 5-2
156449	2-17	158741	2-3	159217	1-2, 1-27	160860	2-22
156451	2-17	158742	2-3	159218	1-9	160865	4-15
156452	2-17	158744	2-2	159222	1-10	161085	4-6
156460	2-17	158745	2-6, 2-7, 2-23	159223	1-10	161086	4-6
156540	1-25	158746	5-2	159225	1-3	161087	4-7
156574	2-22	158748	2-6, 2-7, 2-23	159226	1-3	161206	4-18
156588	2-3, 2-4, 2-6, 2-7	158749	5-2	159227	1-10	161210	4-18
156740	1-26, 2-9	158750	2-6, 2-7, 2-23	159228	1-10	161239	2-18, 2-19
156747	1-24	158827	2-18, 2-19	159230	2-2	161301	2-14
156768	1-7, 1-15, 1-25, 2-10, 4-6	158828	2-10	159231	2-3, 2-4, 2-6, 2-7, 2-23	161552	2-8, 2-9
156770	4-2, 4-19	158952	1-8	159232	2-2, 2-8, 4-6	161575	3-4
156805	2-6, 2-7, 2-23	158955	1-7, 1-8, 1-15	159233	2-2, 2-14	161576	3-4
156806	2-6, 2-7, 2-23	158957	1-8	159237	2-18	161579	3-6
156877	1-16	158958	1-7, 1-8, 1-15	159238	1-3, 1-20, 1-21, 2-18, 2-19	161580	3-6
156887	2-10	158959	1-8, 1-27	159239	2-20	161595	2-18, 2-19
156971	2-17, 2-19	158960	1-7, 1-8, 1-15, 1-25	159240	2-20	161685	2-16
156972	2-17	158962	1-2	159242	2-2, 2-8	161705	4-2, 4-4, 4-19
156976	2-18, 2-19	158963	1-2	159287	2-14	161706**	4-4
156993	4-2	158964	1-3, 1-19, 1-26	159341	2-5	161707**	4-4
157225	4-14	158966	1-3, 1-5, 1-15	159540	2-17	161708	4-2, 4-3, 4-4, 4-19
157233	1-23	158967	1-4, 1-16	159543	2-17	161711	4-5
158250	2-15	158968	1-4, 1-16	159603	2-16	161712	4-5
158252	2-15	158969	1-2	159604	2-16	161713	4-5
158281	4-12	158972	1-6	159610	2-8, 2-9	161716	4-5
158283	4-12	158973	1-4, 1-16	159739	3-8	161725	4-5
158286	1-20, 4-10	158974	1-6	159819	2-2, 4-7, 4-11	161726	4-5
158287	4-6, 4-10	158975	1-6	159820	2-2, 4-7, 4-11	161728	4-5
158289	2-13, 2-17	158976	1-4	159841	1-22	161730	4-5
158542	1-26	158977	1-4	160191	1-5	161731	4-3
158601	1-28	158978	1-4	160229	4-14	161733**	4-2
158602	1-26	158979	1-6	160284	4-8	161734	4-2
158640	1-7, 1-15, 1-25	158980	1-6	160298	3-2, 3-8	161736**	4-2
158643	1-7, 1-15, 1-25	158981	1-6	160299	3-2, 3-8	161746	4-5
158700	2-3, 2-4	158983	1-6	160300	3-2, 3-8	161747	4-2, 4-3, 4-4, 4-19
		158984	1-5	160301	3-2, 3-8	161748	4-2, 4-19
		158985	1-2	160302	3-2, 3-8	161749	4-5, 4-17
		158986	1-4	160303	3-2, 3-8	161752	4-3
		158987	1-2, 1-26	160304	3-2, 3-8	161753**	4-3
		158988	1-4	160305	3-2, 3-8	161754**	4-3
						161985**	4-2, 4-19

MASTER NUMERICAL INDEX (Continued)

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
161986	4-3	163750	1-13	170836	1-17	171675	2-11, 2-18, 2-19
161987	4-3	163759	1-13	170863	2-9	171689	1-16
161990	4-2, 4-19	163761	1-13	170867	2-8	171694	2-10
161991	4-2	163763	1-13	170869	2-2	171695	2-5
161994	4-7	163762	1-13	170871	2-5	171696	2-5
161995	4-7	163764	1-13	170872	2-5	171697	2-5
161996	4-6	163868	2-17	170873	1-11	171705	2-9
161997	4-6	163972	4-13	170874	1-11	171836	2-5
161999	4-3	163980	2-18	170875	1-11	171837	2-7
162000**	4-2	163981	1-3	170876	1-11	171838	2-7
162001**	4-2	163983	4-9	170877	1-11	171841	2-7, 2-15
162002	4-2, 4-16, 4-19	163988	4-11	170878**	1-14	171951	2-19
162004	4-2, 4-19	164093	4-11	170881	1-14, 2-8	172005	1-26, 4-7
162005**	4-2	164427	4-10	170882	1-14	172108	2-19
162006	4-6	164479	3-6	170887	1-14, 2-8	172110	2-19
162007	4-7	164596	1-13	170888	2-8	172117	2-20
162011	4-5	164598**	1-7, 5-2	170889	2-8	172159	1-18, 1-26
162070	4-6	164751	4-13	170891	2-4	172191	4-17
162075	2-17	164752	4-13	170975	2-9	172260	1-14
162195	4-2, 4-19	164756	3-4	170979	1-15, 1-25	172261	1-14
162357	4-6, 4-10, 4-14	164757	3-4	170980**	1-15	172262	1-14
162358	4-6, 4-10, 4-14	164758	3-4	170981	2-5	172291	1-16, 1-19
162359	4-6, 4-10, 4-14	165027	2-8, 2-18, 2-19, 4-16	170984	1-15, 1-25	172292	1-17, 1-19
162670	4-7, 4-11	165073	4-12	170985	2-18	172293	1-16, 1-19
162671	4-7, 4-11	165102	4-6, 4-8, 4-9, 4-10, 4-14, 4-18	170986	2-18	172294	1-16
162672	4-8	165267	1-28	170987	2-18	172628	2-4
162725	1-27	170765	2-10	170988	1-14	172630	2-4
162678	4-8	170767	2-5	170989	2-18	172664	2-19
162680	4-7, 4-11	170768	2-5	170990	2-4	172665	2-19
162683	4-7, 4-11	170769	2-5	170995	1-15, 1-22, 1-25, 1-28	172681	1-13
162685	4-8	170770	2-5	170997	1-15, 1-22, 1-25, 1-28	172686	4-12
162692	4-7	170771	1-14	170996	1-15, 1-22, 1-25, 1-28	172688	4-12
162730	See Section Indexes	170772	2-8	170998	2-18	172689	4-12
162739	4-7	170792	2-8	170999	1-15, 1-22, 1-25	172690	4-12
162818	4-7	170794	2-7	171166	1-15	172724	2-14
162361	3-6	170795	2-7	171167	1-15, 1-25	172725	2-14
163163	4-2	170797	2-18	171168	2-8	172726	4-12
163258	2-3	170798	1-16	171169	2-8	172727	4-12
163259	2-3	170800**	1-15, 5-2	171170	2-8	172729	4-12
163261	2-3	170801	1-15, 1-25	171171	2-8	172733	4-12
163265	2-3	170802	2-8, 2-9	171173	2-8	172734	4-12
163267	3-6	170805	2-10	171174	2-8	172737	4-15
163268	3-6	170806	2-7	171175	2-10	172738	4-15
163269	3-6	170807	1-15, 1-22, 1-25	171176	2-8	172739	4-13
163272	3-4	170809	1-15, 1-25	171177	2-8	172740	4-13
163274	3-4	170811	1-15, 1-22, 1-25, 1-28	171178	1-16	172741	4-12
163279	4-8, 4-18	170812	1-15, 1-22, 1-25, 1-28	171179	1-16, 1-19	172742	4-12
163357	2-3	170813	1-16	171182	1-11	172743	4-14
163469	2-3	170814	1-16	171183	2-20	172745	4-15
163470	2-3	170815	2-7	171186	1-11, 1-29	172746	4-15
163471	2-3	170816	1-16	171187	2-2	172747	4-12
163473	2-3	170817	1-16, 1-19	171188	2-8	172748	4-12
163474	2-3	170818	1-16, 1-19	171194	2-10	172781	4-12
163475	2-3	170819	1-16	171195	2-9	172782	4-13
163480	2-18	170820	1-16, 1-19	171196	2-9	172783	4-13
163481	1-3	170821	1-16	171197	2-9	172784	2-3, 5-2
163482	1-3	170822	1-16	171198	2-9	172785	2-15
163484	4-10	170823	1-16	171199	2-9	172786	2-15
163486	1-3	170824	1-16, 1-19	171205	2-9	172787	2-15
163487	4-11	170825	1-16, 1-19	171461	1-23	172788	2-15
163488	4-10	170826	1-17	171462	1-23	172789	2-15
163489	4-10	170827	1-17	171463	1-23	172790	2-15
163491	4-10	170828	1-16, 1-17	171469	2-9	172797	3-9
163492	4-10	170829	1-16	171541	2-9	172871	2-3, 2-17
163493	4-11	170830	1-17	171609	1-23	172873	2-15
163494	4-10	170831	1-16	171610	1-23	172874	2-15
163495	4-9, 4-18	170833	1-16	171644	1-23	172875	2-15
163496	4-11	170834	2-8	171650	1-14, 1-23	172876	2-15
163706	1-13	170835	1-11	171651	1-23	172877	2-15
				171655	2-18, 2-19	172878	2-14

MASTER NUMERICAL INDEX (Continued)

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
172892	2-3	174543	3-9	176145	4-17	179944	2-19
172894	2-14	174544	3-9	176146	4-17	179980	2-3
172895	2-14	174545	3-9	176147	4-17	190311	1-27
172896	2-16	174546	3-9	176148	4-17	190322**	1-18,1-27
172897	4-12	174547	2-9	176149	4-17	190323	1-18
172904	4-13	174556	3-9	176176	1-19	190324	1-27
172905	2-3,2-4	174558	2-21	176177	1-19	190327**	1-22
172906	2-3,2-4	174559	2-21	176178	1-19	190328**	1-22,5-2
172907	2-3,5-2	174560	2-21	176237	1-3	190329	1-28
172937	4-14	174561	2-12,2-21	176242	1-15,1-22,1-25	190330	1-26
172949	4-13	174562	2-9	176402	1-7,1-15,1-25	190481	2-22
172951	4-13	174563	2-12	176423	1-3	190482	2-22
172952	4-12	174564	2-12	176244	2-2	190483	2-2
172954	2-14	174565	2-12	176245	2-2	190484	2-22
172958	2-14,2-15	174566	2-12	176483	4-17	190486	1-26,2-22
172987	2-19	174569	1-21	176533	4-16	190487	2-22
172988	2-19	174570	1-21,2-12,2-21	176541	4-10	190488	2-22
172990	3-7	174571	1-21	176644	1-11	190490	2-22
173003	3-7	174572	1-21	176645	1-16	190491	1-26,2-22
173004	3-7	174573	2-11	177035	1-24	190492	2-22
173116	1-27	174574	2-18,2-19	177036	1-24	190495	2-22
173201	2-14	174576	1-18	177038	1-24	190497	2-19
173342	1-13	174578	1-21	177039	1-24	190521**	1-26
173361	2-15	174579	1-21	177040	1-24	190522	1-27
173394	4-12	174581	1-22	177041	1-24	190523	2-23
173413	4-16	174582	2-21	177042	1-24	190524	1-27
173414	4-16	174583	2-12	177043	1-24	190526	1-27
173415	4-16	174586	2-19	177445	2-9	190527	1-27
173416	4-17	174587	2-21	177872	1-26	190528	1-27
173417	4-16	174588	1-21	178230	2-19	190529	1-27
173418	4-16	174590	2-19	178234**	1-25,5-2	190531	2-23
173419	4-16	174591	2-19	178235	1-25	190534	2-23
173420	4-16	174592	2-19	178236	1-25	190535	2-23
173421	4-11	174594	2-19	178237	1-25	190536	1-27
173459	4-18	174595	2-9	178238	1-25	190537	1-27
173461	4-16	174626**	1-22,5-2	178239	1-25	190539	1-27
173464	4-2,4-19	174627	1-17	178240	1-25	190540	2-23
173469	2-19	174628	1-18	178241	1-25	190541	1-26
173578	1-18	174629	1-22	178242	1-25	190542	1-27
173579	1-27	174635	2-11,2-22	178243**	1-25	190543	1-27
173692	2-3	174637	2-21	178246	2-19	190544	1-27
173693	2-3	174639	2-18	178247**	1-25	190545	1-27
173702	2-3	174640	2-11,2-18,2-19,2-22	178249	1-25	190546	1-27
173715	1-22,1-26	174652	1-22	178261	4-19	190547	1-27
173718**	1-15,5-2	174653	1-22,1-28	178363	4-8	190548	1-27
173751	3-7	174654	1-22	178396	2-3,2-4,5-2	190550	1-29
173753	3-7	174655	1-22	178412	4-2,4-19	190551	1-27
173761	2-19	174656	1-22	178500	3-3	190552	1-27
173766	1-7	174657	1-22,1-28	178876	4-19	190553	1-27
173800	4-18	174658	1-22,1-28	178877	4-19	190554	1-26
173801	4-18	174695**	1-26	178878	4-19	190555	1-27
173817	4-18	174736	2-21	178880	4-19	190556**	1-28
173841	4-18	174806	1-26	178881	4-19	190557**	1-28
173844	4-18	174815	1-23	178907	4-19	190558	1-28
173863	4-18	174816	1-23	178908	4-19	190559	1-28
174009	4-10	174848	1-25	179059	2-2	190561**	1-28
174022	2-13	174877	1-26	179715	5-3	190581	1-28
174023	2-19	174936	1-22	179176	1-7	190584	1-26
174094	2-9	174937**	1-22	179177	1-7	190585	1-26
174324	2-6,2-7,2-23	174938	1-22	179178**	1-7	190586	2-23
174335	1-7,1-15,1-25	174939	1-18	179181**	1-7,5-2	190588	1-26
174336	1-16,1-19	174943	1-22	179204	1-19	190589	1-27
174337	1-16,1-19	174950**	1-18	179206	1-19	190590	1-27
174338	1-16,1-19	174953	1-22	179208	1-19	190591	1-26
174340	1-16,1-19	174958	1-18,1-26	179209	1-19	190593	1-27
174396	1-28	174973	1-22	179211	1-11,1-19	190596	1-28,5-2
174456	4-2	175185	2-9	179381	1-12	190601**	1-26
174472	1-20	175276	1-23	179395	1-19	190603	1-27
174473	1-20	176139	4-17	179500	1-20	190604	1-27
174474	1-20	176143	4-17	179746	1-11,1-19	190605	1-27
174525	2-19	176144	4-17	179760	2-16	190606	2-22

1168B

MASTER NUMERICAL INDEX (Continued)

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
190608	1-28	190613	1-26	192176	1-27	193662	1-19
190609	1-28	190618	2-22	193147	2-9	193663	1-19
190610	1-28	190630	1-27	193230	1-23	193640	2-19
190611	1-28	190636	1-28	193270	2-9	193940	1-19
190612	1-28	190637	1-27	193661	1-19	207223WU	2-17

