

MASTER COPY

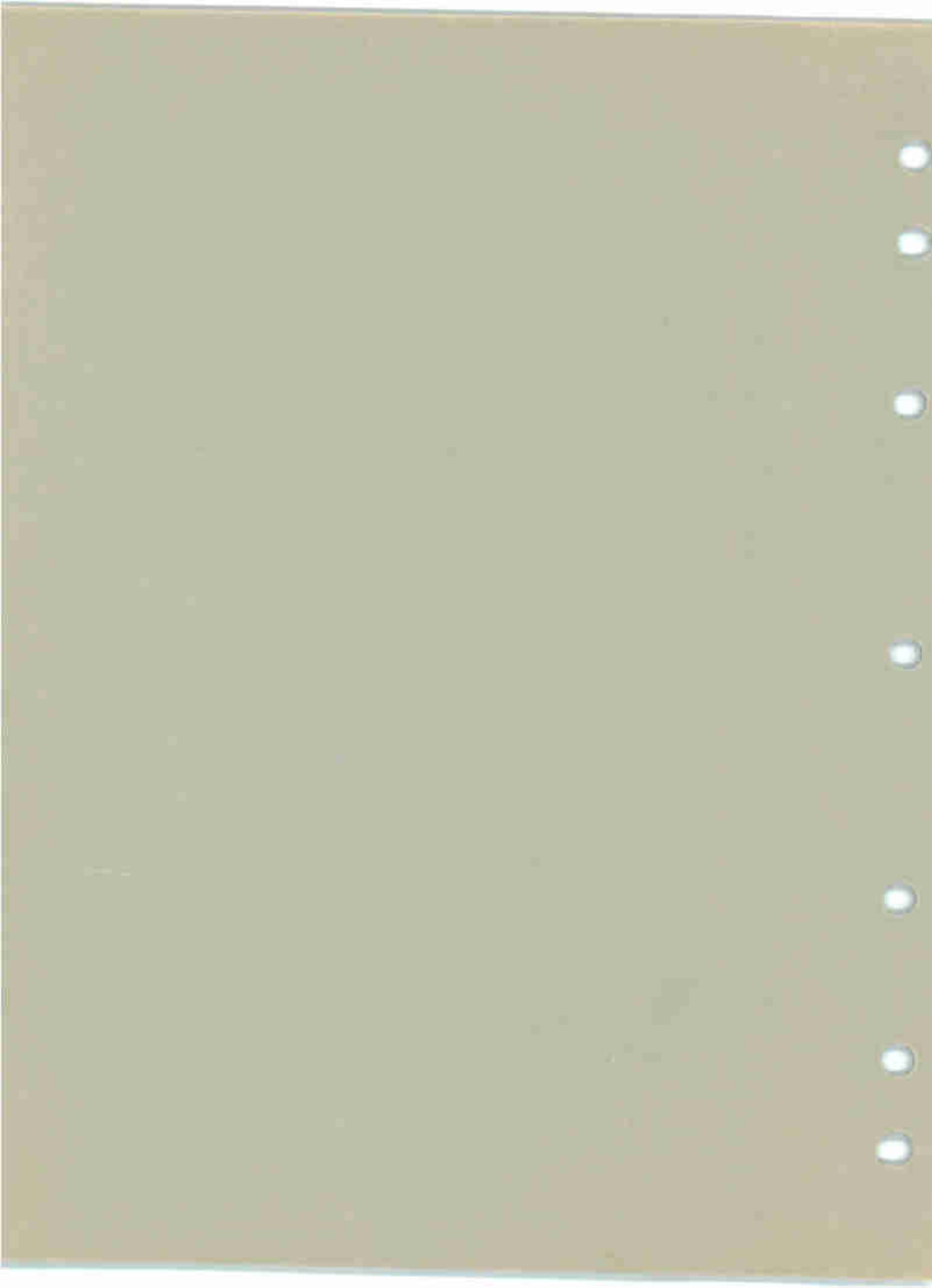
BULLETIN 1075B

PARTS  
TAPE WINDERS  
AND  
UNWIND REELS  
+  
TW 5



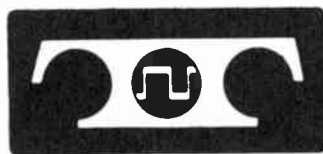
**TELETYPE<sup>®</sup>**  
CORPORATION

5555 TOUHY AVENUE, SKOKIE, ILLINOIS



BULLETIN 1075B

PARTS  
TAPE WINDERS  
AND  
UNWIND REELS



**TELETYPE<sup>®</sup>**  
**CORPORATION**

5555 TOUHY AVENUE, SKOKIE, ILLINOIS



## LIST OF EFFECTIVE PAGES

FEBRUARY, 1963

(Supersedes February, 1962 Issue)

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MOTOR DRIVEN TAPE WINDERS

Teletype Code or Part No.	Bell System Code	Weight	Dimensions (inches)			Motor			No. of Reels	Reel Speed (WPM at core)	Reel Size (inches)	Core Size (inches)	Reel Capacity (feet)		Tape Width (inches)	Remarks	Page No.
			Length	Width	Height	Volt	Cycle	Current					Fully Perforated	Chadless			
TW3			16	7-1/4	17-1/2	110	60	AC	2	167	13	3	2000	1000	11/16		1,2,4,5,6
TW4			16	6-1/4	17-1/2	110	60	AC	1	167	13	3	2000	1000	11/16		1,2,4,5,6
TW5	2A	35	16	6-1/4	17-1/2	110	60	AC	1	167	13	3	2000	1000	11/16	5366S (I & A)	1,2,4,5,6
TW5 plus 115743AD	2B					110	60	AC	1	167	13	3	2000	1000	11/16		1,2,4,5,6,19
TW6	1A	40	16	7-1/4	17-1/2	110	60	AC	2	167	13	3	2000	1000	11/16		1,2,4,5,6
TW8			16	6-1/4	17-1/2	110	60	AC	1	167	13	3	2000	1000	11/16		1,2,4,6
TW9			16	7-1/4	17-1/2	110	60	AC	2	167	13	3	2000	1000	11/16		1,2,4,6
TW10	3A	45	16	11-1/2	17-1/2	110	60	AC	3	167	13	3	2000	1000	11/16		1,2,3,4,5,6
TW12		17	20-1/2	5	12-3/4	115	60	AC	1	110	12	2	2000	1000	11/16		7,8,9,10
TW13	4A	17	20-1/2	5	12-3/4	115	60	AC	1	110	12	2	2000	1000	11/16	5884S (A, L & T)	7,8,9,10
TW14		25	18	10	12-1/2	115	60	AC	3	300	12	2	2000	1000	11/16	5976S (I & A)	20,21,22,23,24
TW15		25	18	10	12-1/2	115	60	AC	3	300	12	2	2000	1000	11/16	Reel Full Alarm 5976S (I & A)	20,21,22,23,24
TW16		18-1/2	21	4	13-1/2	115	50-60	AC	1	110	12	2	2000	1000	11/16	5884S (A, L & T)	7,8,10,25
TW200**		6-1/2	10	6	9-1/8	115	60	AC	1	914	8	3	600	300	3/8,15/32,11/16,7/8,1	Formerly TW11 (Gray Green Wrinkle) 5723S (I & A)	11,12,13
TW201**		6-1/2	10	5-1/2	7-1/2	115	60	AC	1	786	4	2-5/8	90	50	Up to 7/8	5723S (I & A)	11,12,13
TW203**		5-1/2	10-1/2	6-1/4	7-7/8	115	60	AC	1	628	7-1/2	2	650	325	11/16,7/8,1	5723S (I & A)	11,12,13

01387662  
93877797

SPRING DRIVEN TAPE WINDERS														
Teletype Code or Part No.	Bell System Code	Weight	Dimensions (inches)			No. of Reels	Reel Speed (WPM at core)	Reel Size (inches)	Core Size (inches)	Reel Capacity (feet)		Tape Width (inches)	Remarks	Page No.
			Length	Width	Height					Fully Perforated	Chadless			
115739		4-1/2	6	6-3/4	6	1	1000	4	2	90	50	11/16,7/8	Formerly 85832 (Walnut)	14,15 (fig. 2)
115753		4	6	6-3/4	6	1	1000	6	2-3/4	180	100	11/16	Formerly 103032 (Walnut)	14,15 (fig. 3)
115754		4	6	6-1/4	5-1/2	1	1000	4	2-3/4	90	50	11/16	Formerly 91729 (Walnut)	14,15 (fig. 1)
123587			6	6-3/4	6-3/4	1	1000	6	1-1/8	400	200	3/8,1/2,11/16	Formerly 93791 (Black) and 104478 (Black Wrinkle)	14,15 (fig. 4)
124884			6	6-3/4	6-3/4	1		6-3/4	2-3/4	180	100	11/16,7/8		14,16 (fig. 5)

UNWIND REELS														
Teletype Code or Part No.	Bell System Code	Weight	Dimensions (inches)			No. of Reels	Reel Speed (WPM at core)	Reel Size (inches)	Core Size (inches)	Reel Capacity (feet)		Tape Width (inches)	Remarks	Page No.
			Length	Width	Height					Fully Perforated	Chadless			
91819						1	100	4-1/2	2-5/8	90	50	11/16,7/8,1	Mounts on Bell System 19A Table	17
103035						1	100	6-1/4	2-5/8	180	100	11/16,7/8,1	Mounts on Bell System 19A Table	17
114189						1	100	6-1/4	2-5/8	180	100	11/16,7/8,1	Mounts on M14 TD Cover	17
116836						1	100	6-5/16	2-5/8	180	100	11/16,7/8,1		16

NOTES: A double asterisk (\*\*) following a part or assembly number designates a two-letter suffix which denotes the paint finish. The following finishes are now available:

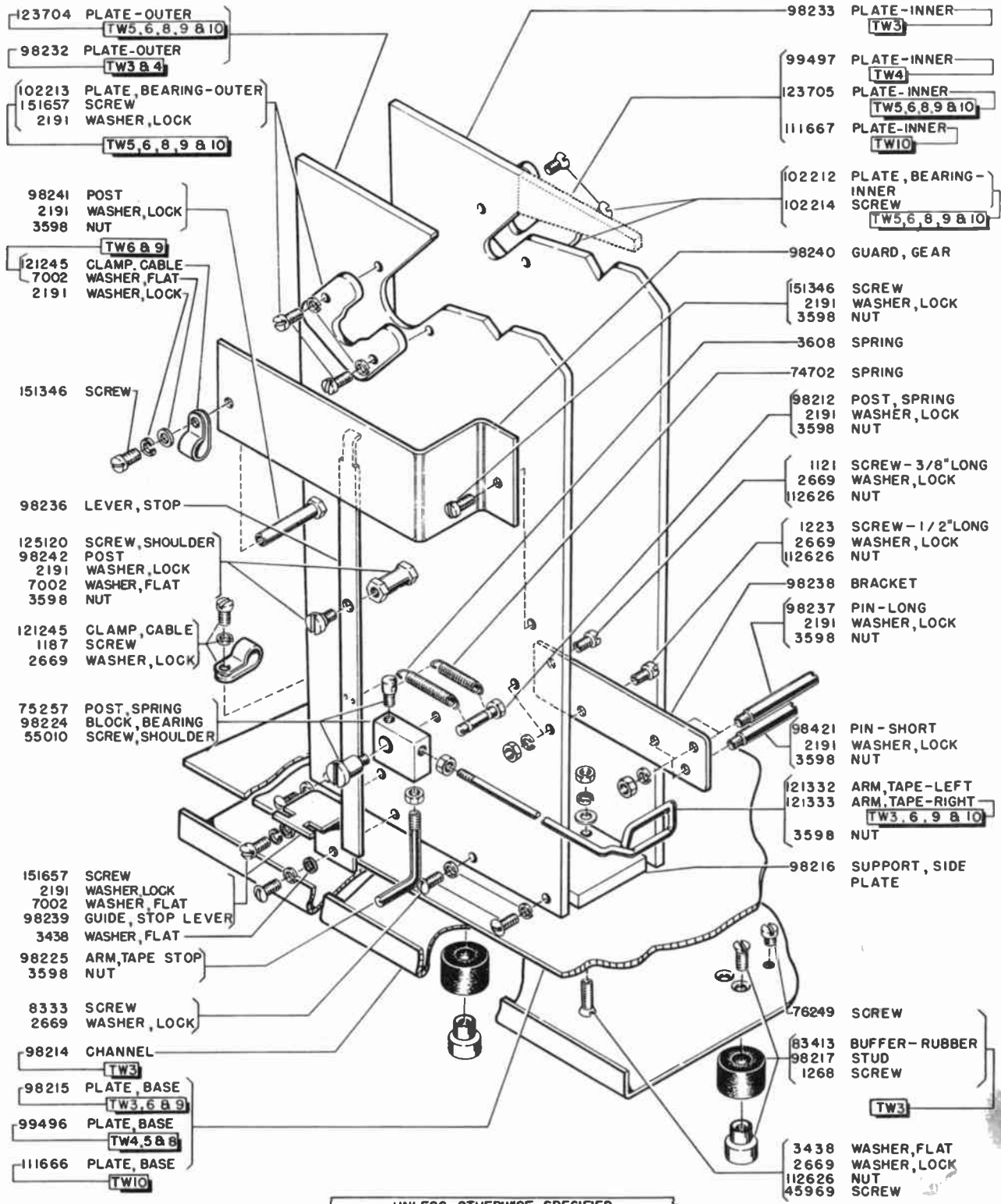
Black Wrinkle -AA Light Brown Wrinkle-AC  
 Gray Green Wrinkle-AB Dark Brown Wrinkle-AD  
 In addition to the colors listed above other colors may be provided on request.

Bell System Only

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

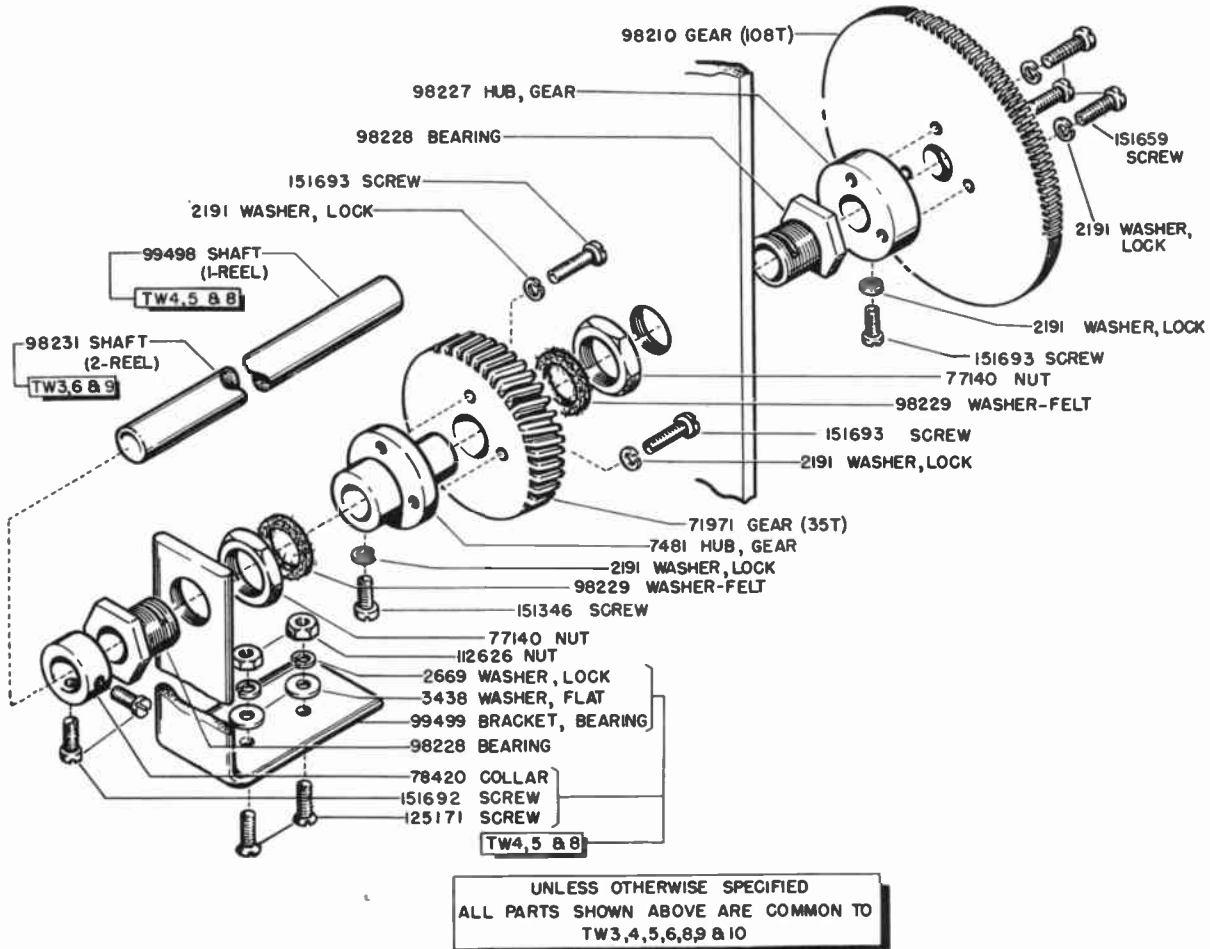
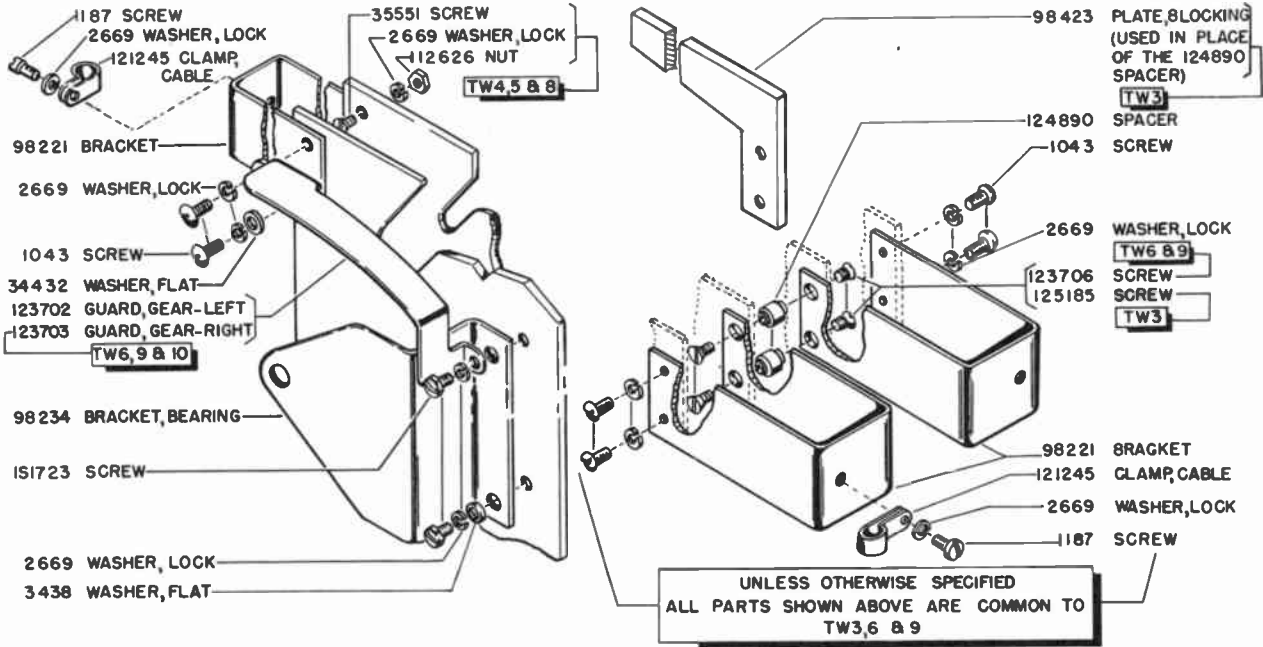


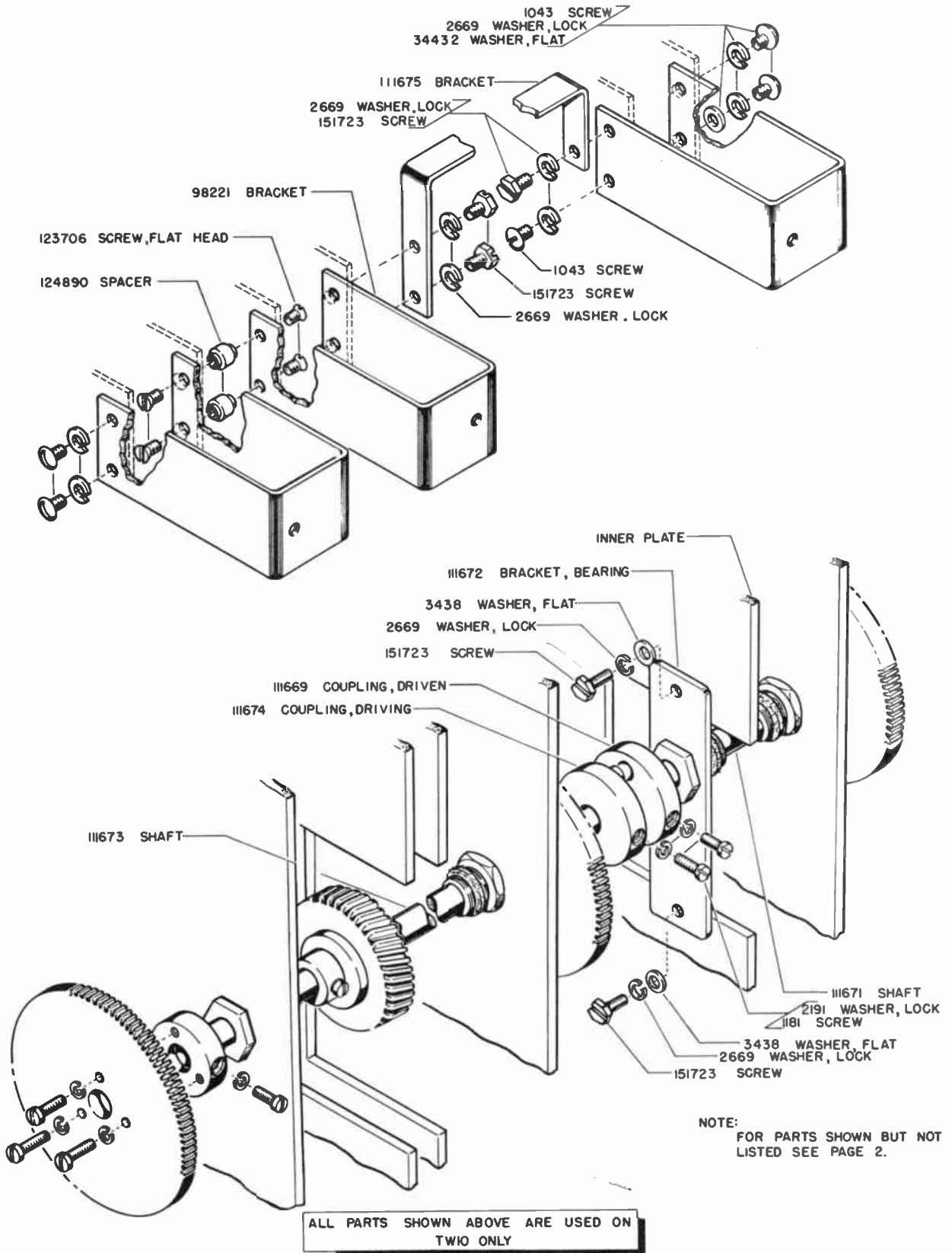


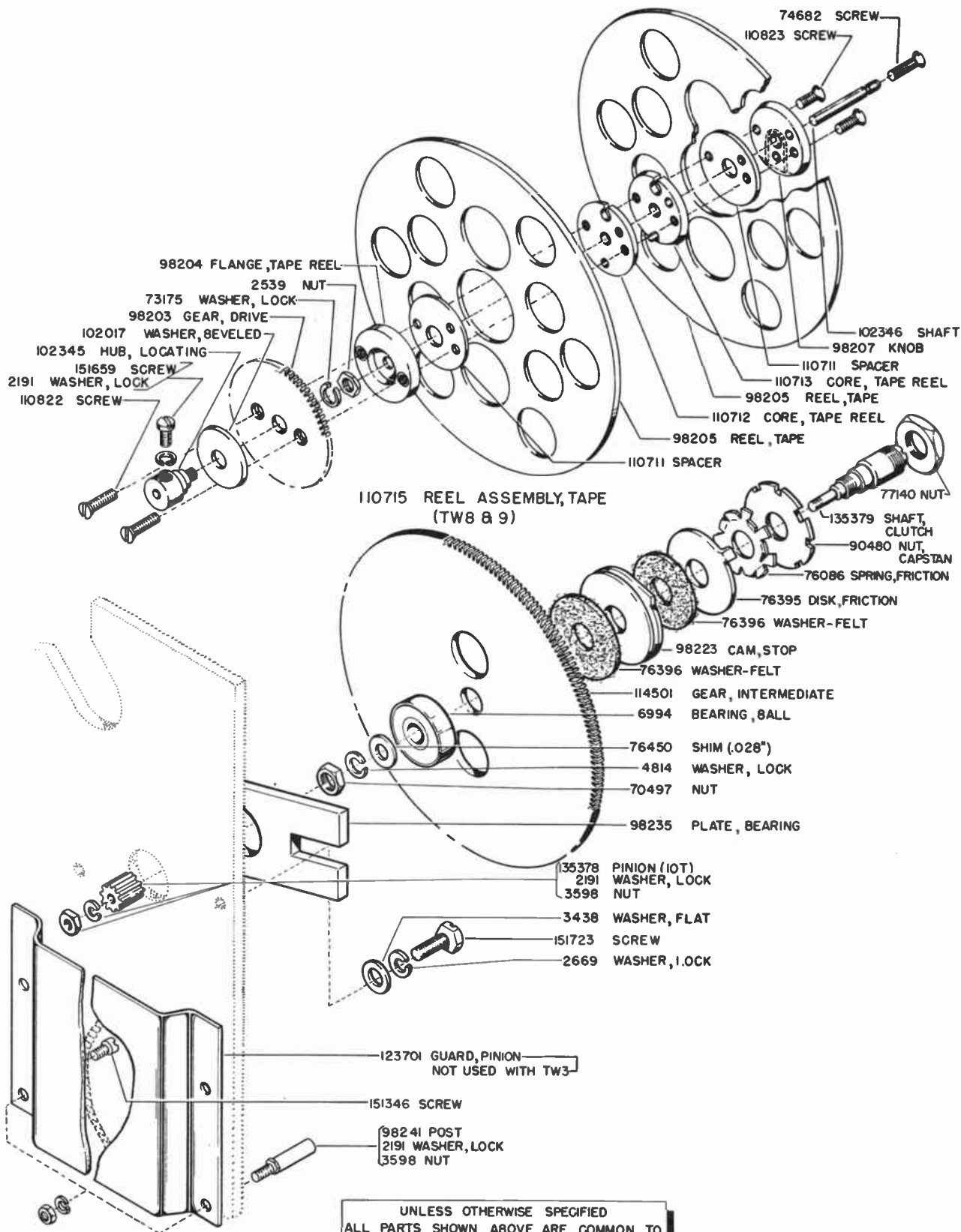


UNLESS OTHERWISE SPECIFIED  
ALL PARTS SHOWN ABOVE ARE COMMON TO  
TW 3,4,5,6,8,9 & 10

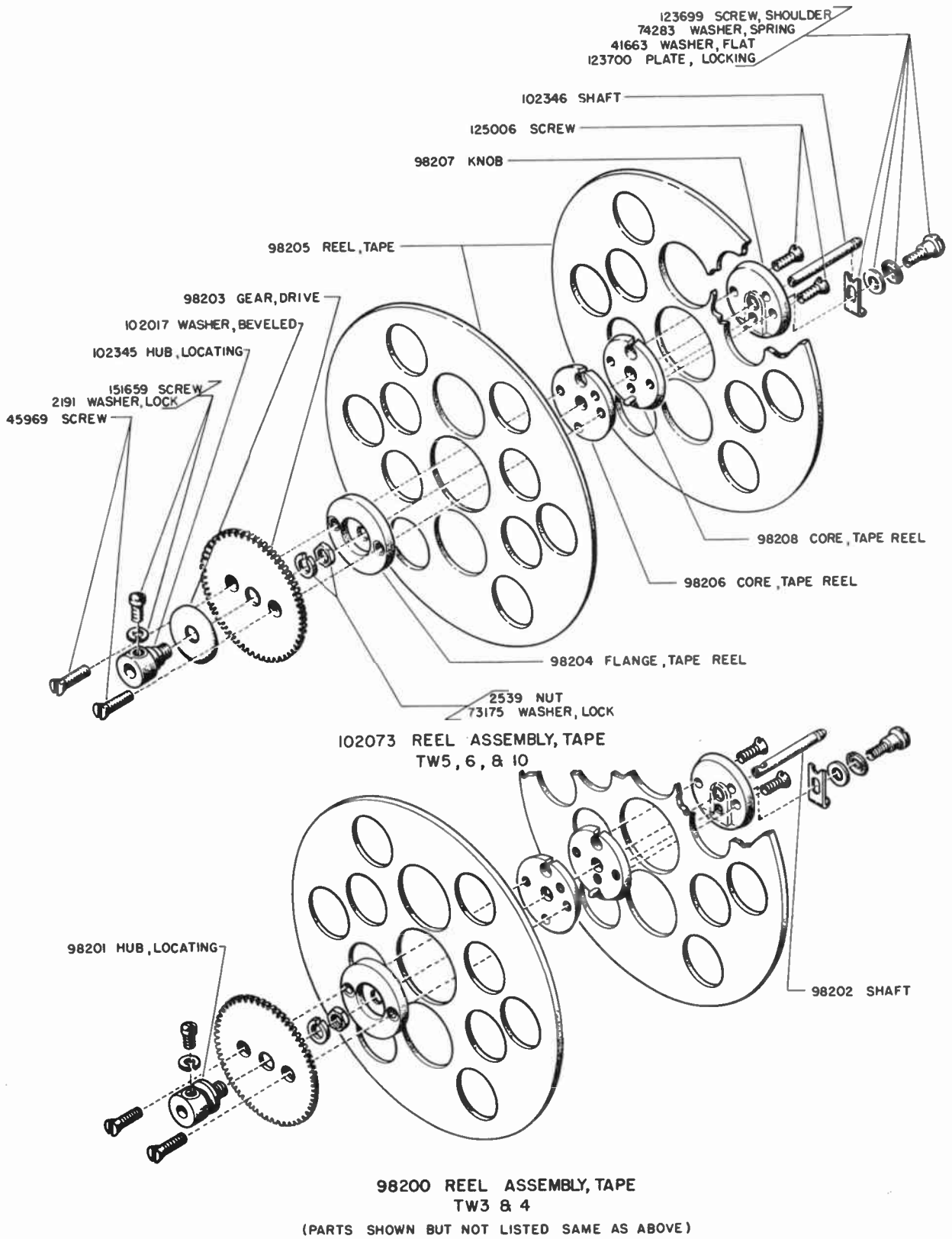
98213 PAD - FELT

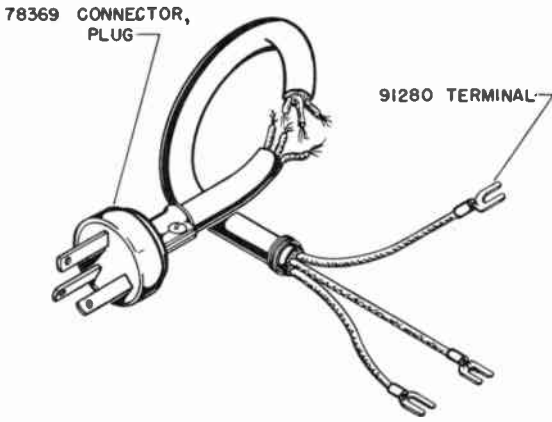




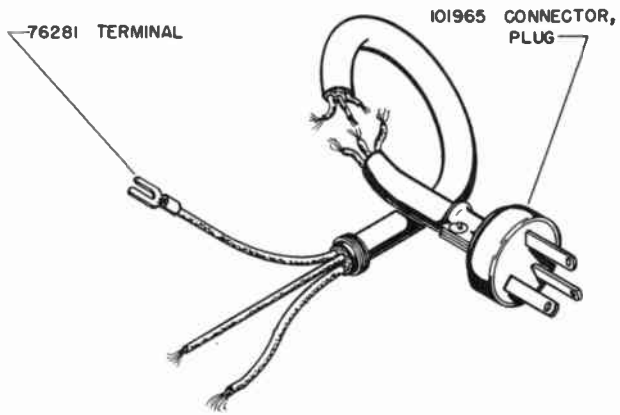


UNLESS OTHERWISE SPECIFIED  
 ALL PARTS SHOWN ABOVE ARE COMMON TO  
 TW3, 4, 5, 6, 8, 9 & 10

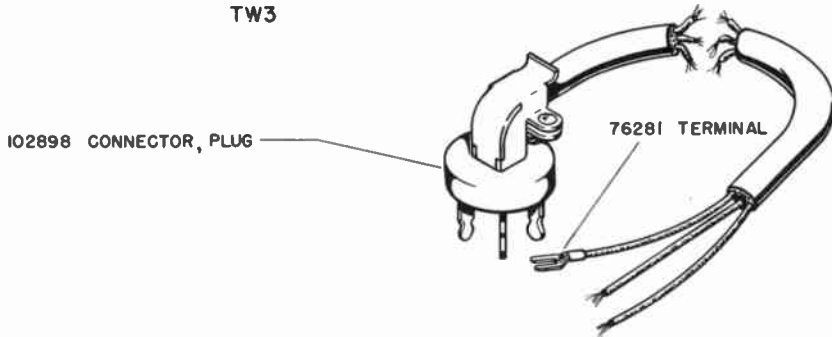




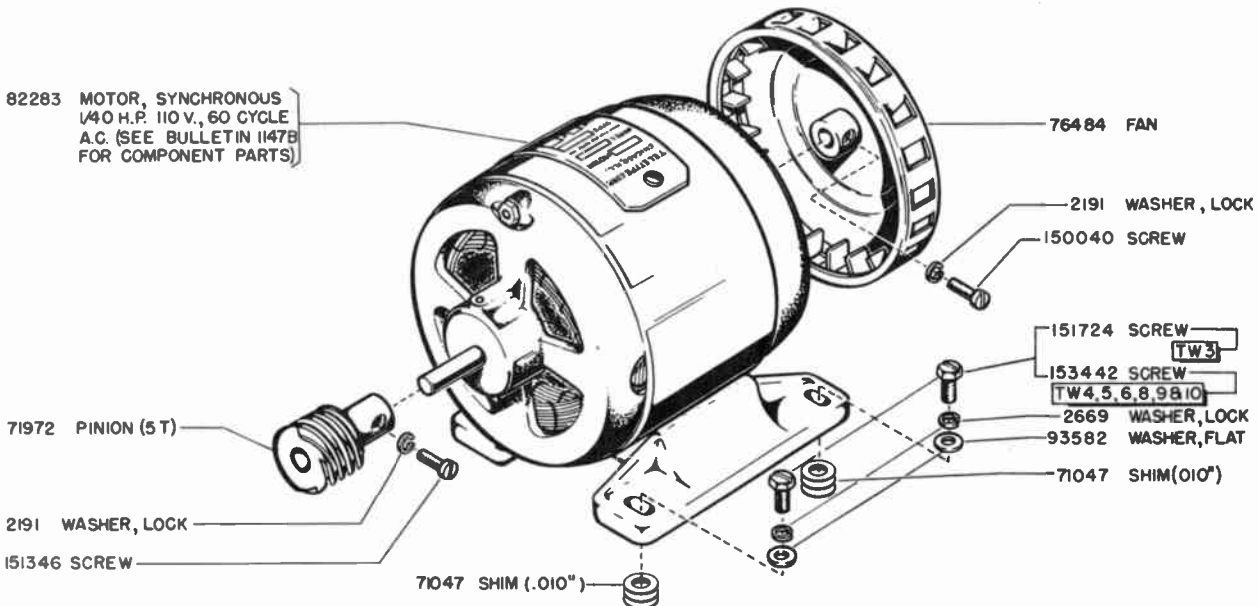
89437 CORD ASSEMBLY  
TW3



102495 CORD ASSEMBLY  
TW4, 6, 9, & 10

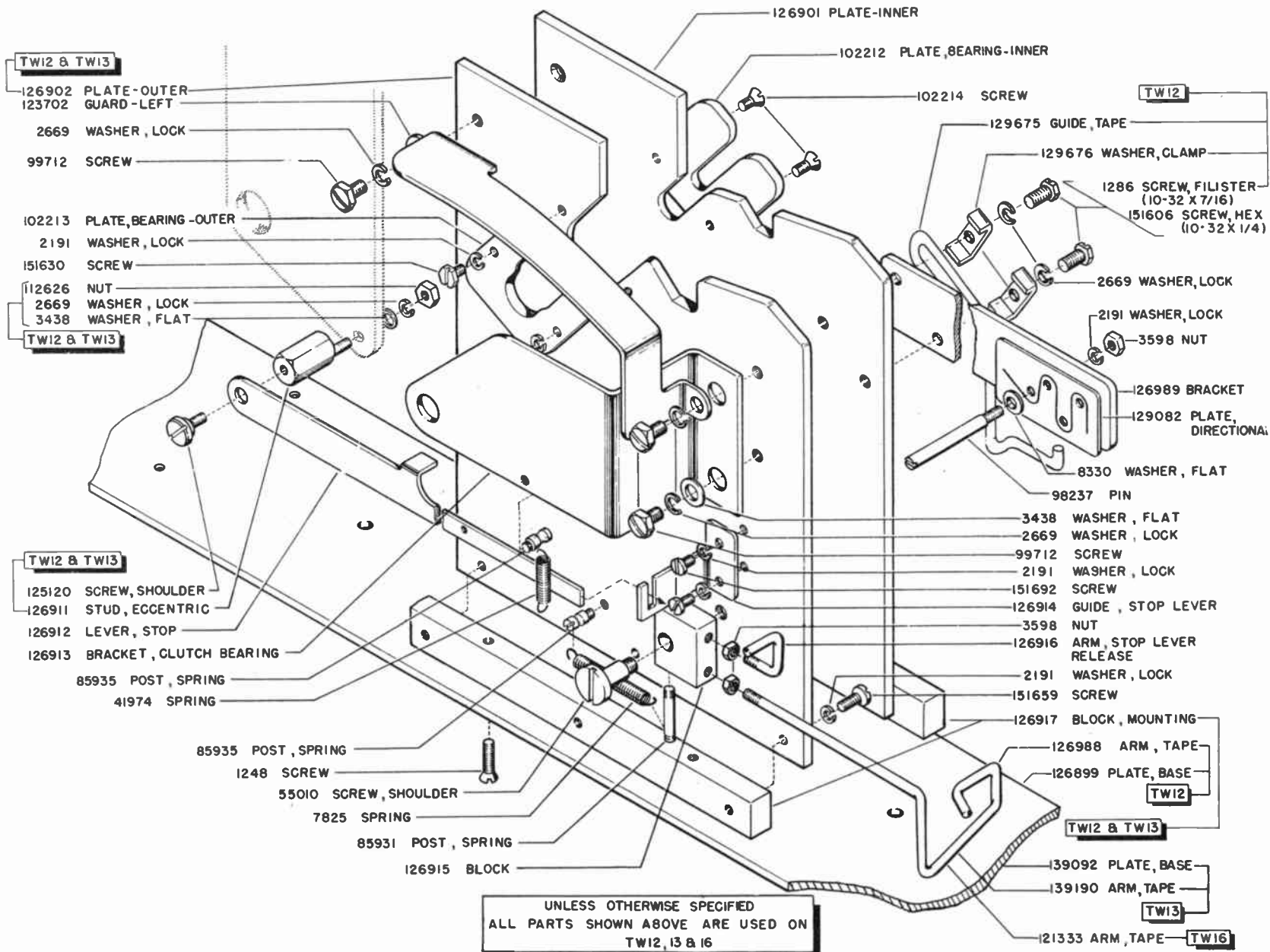


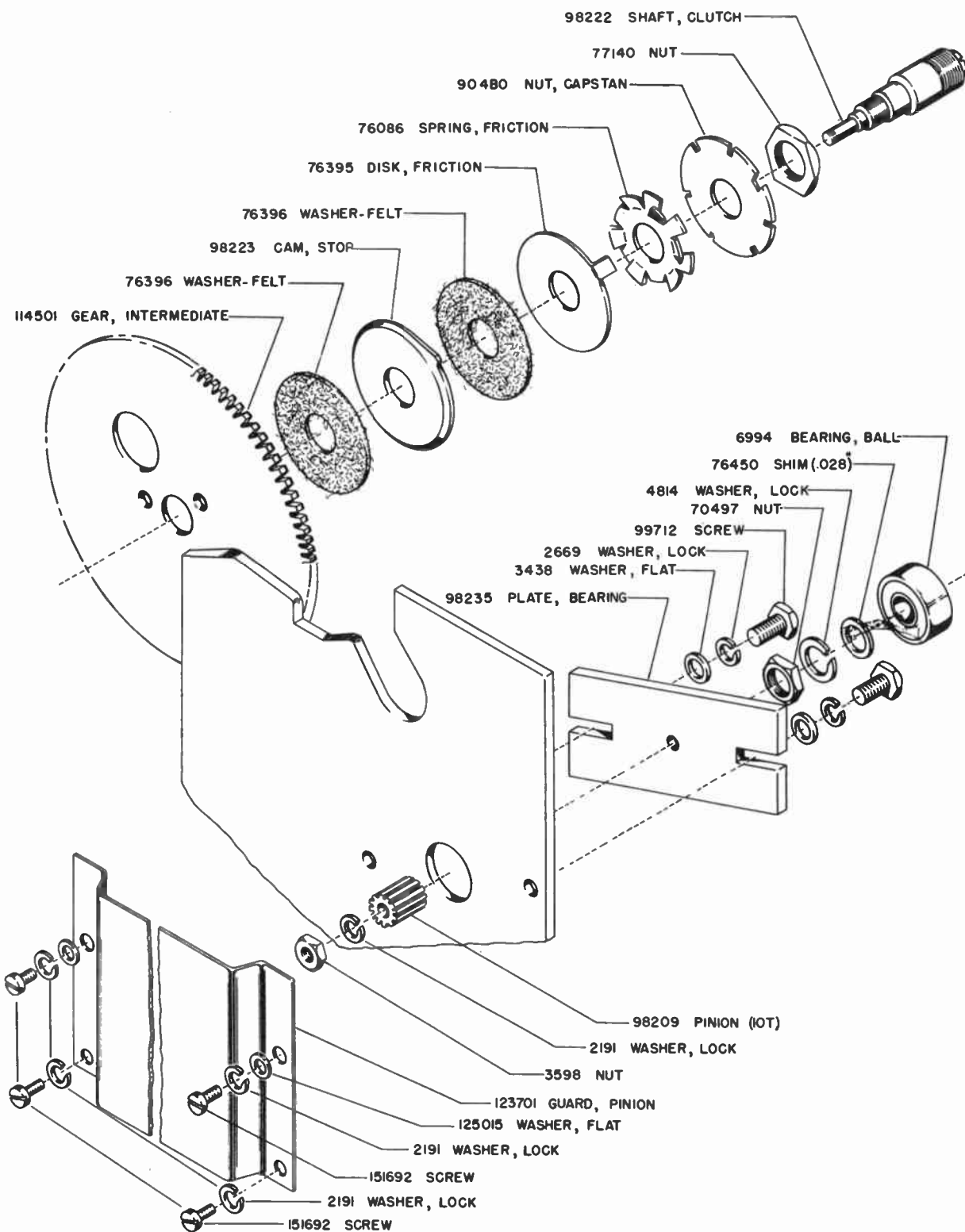
102899 CORD ASSEMBLY  
TW5 & 8



SYNCHRONOUS MOTOR

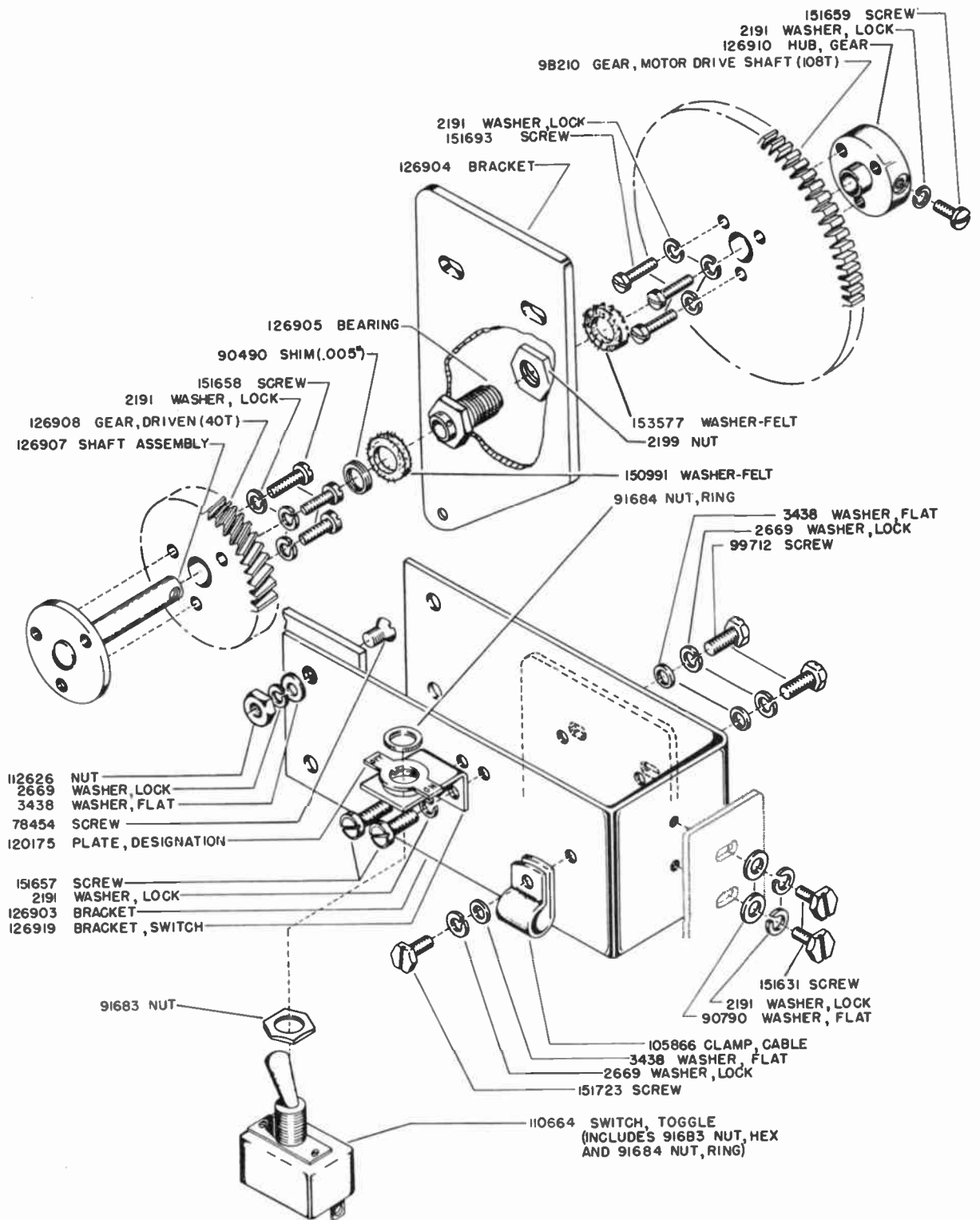
UNLESS OTHERWISE SPECIFIED  
ALL PARTS SHOWN ABOVE ARE COMMON TO  
TW3, 4, 5, 6, 8, 9 & 10



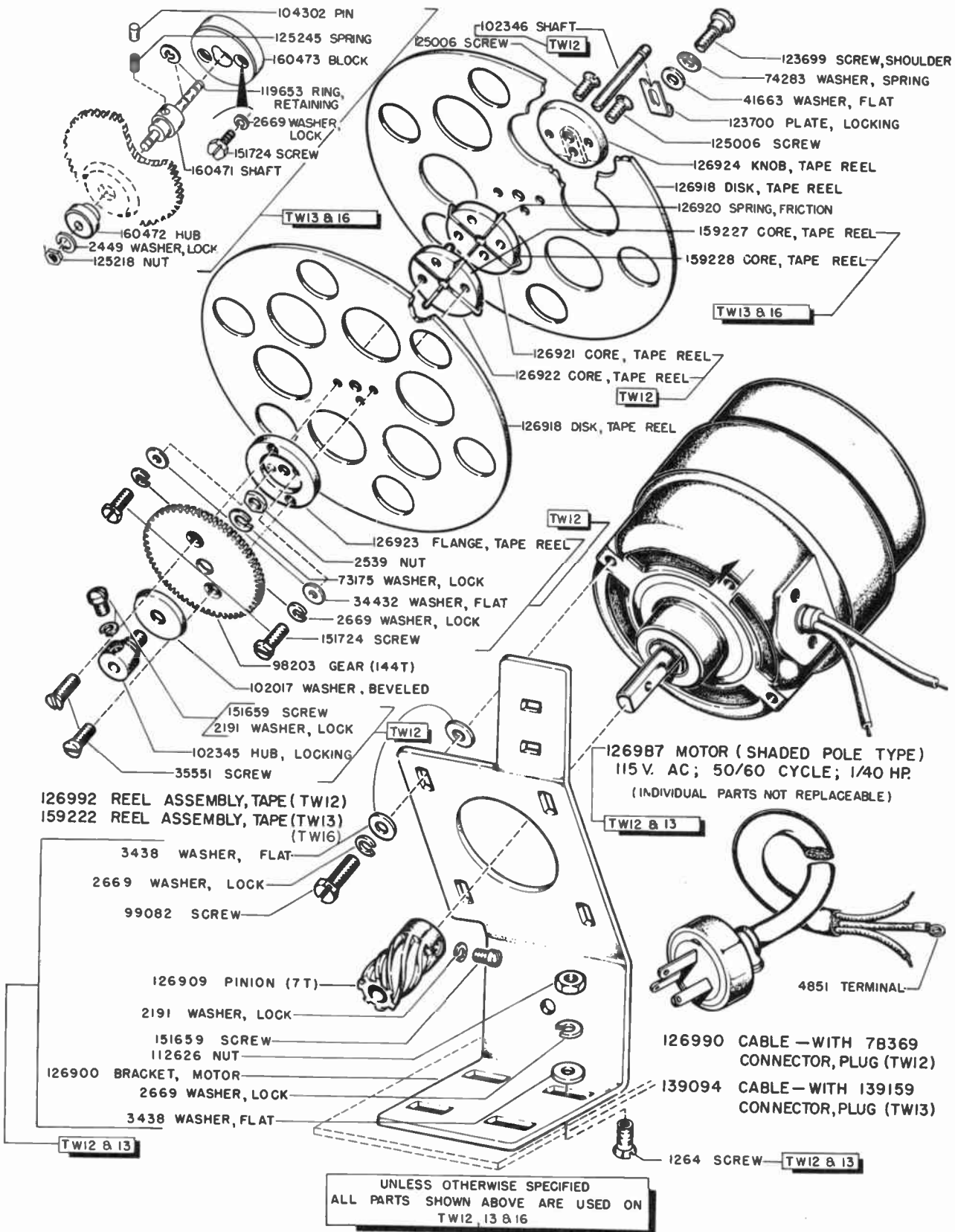


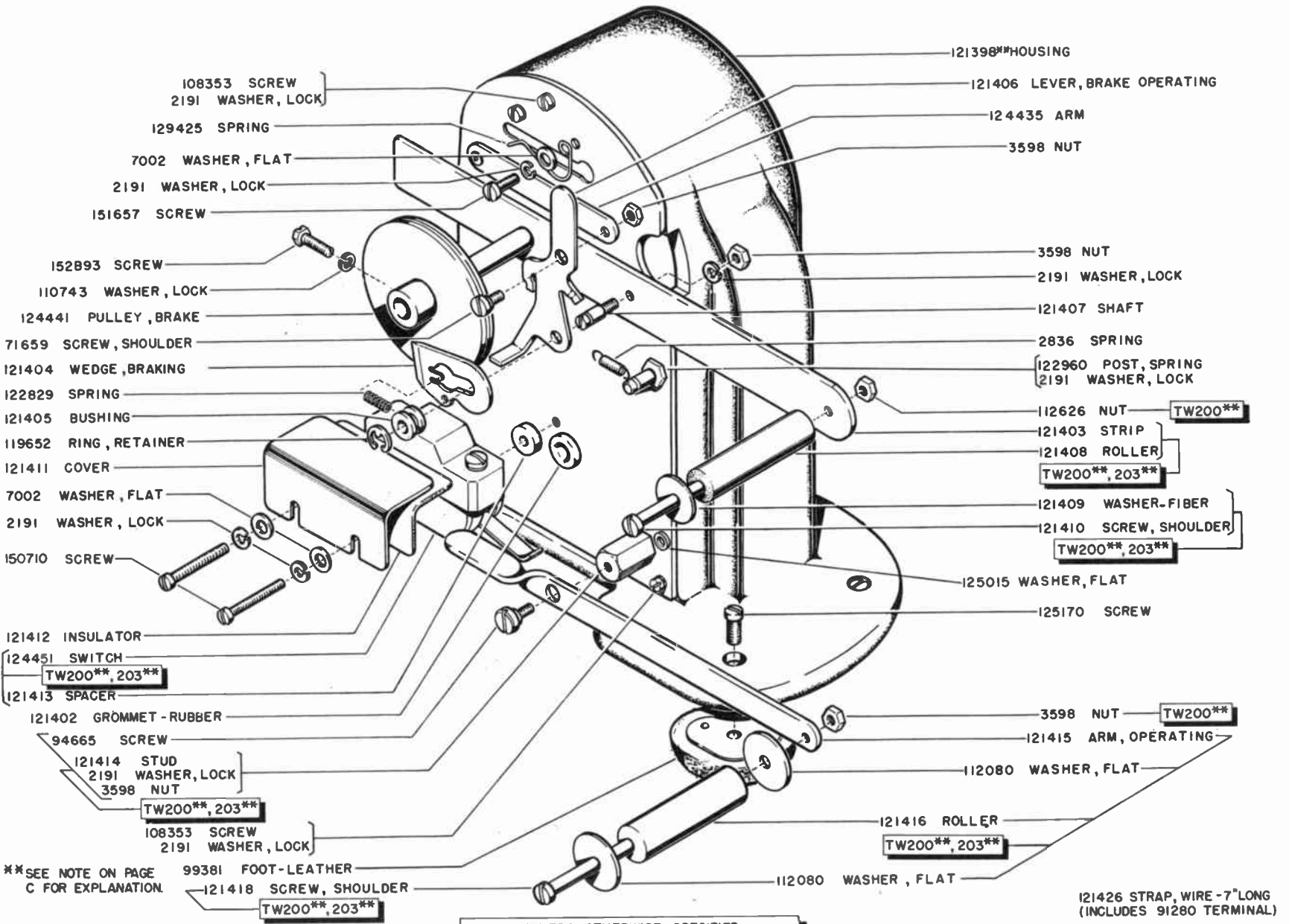
ALL PARTS SHOWN ABOVE ARE USED ON  
 TW12, 13 & 16





ALL PARTS SHOWN ABOVE ARE USED ON  
TW12 & 13

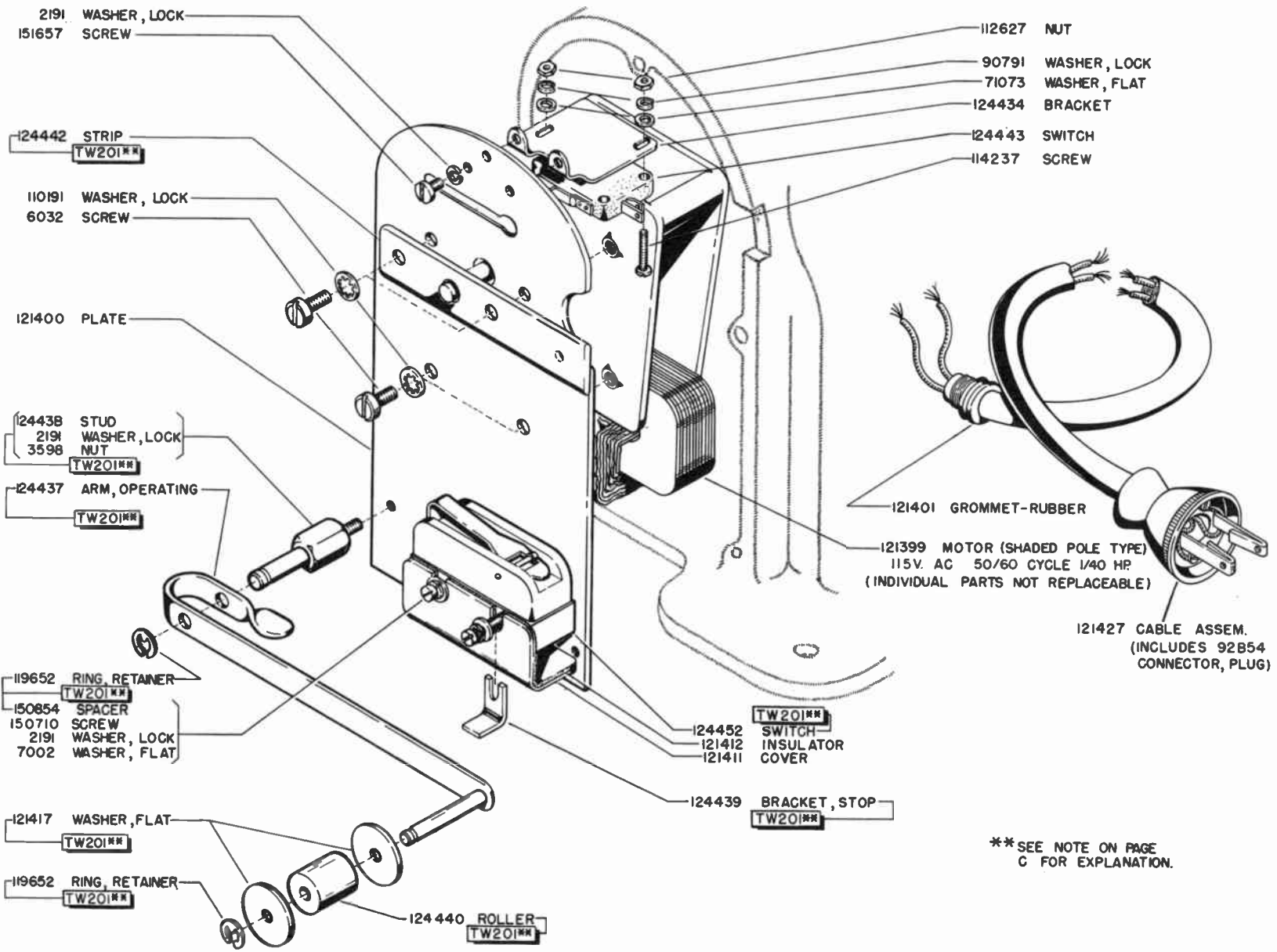




1075B

UNLESS OTHERWISE SPECIFIED  
ALL PARTS SHOWN ABOVE ARE COMMON TO  
TW200\*\*, TW201\*\* & TW203\*\*

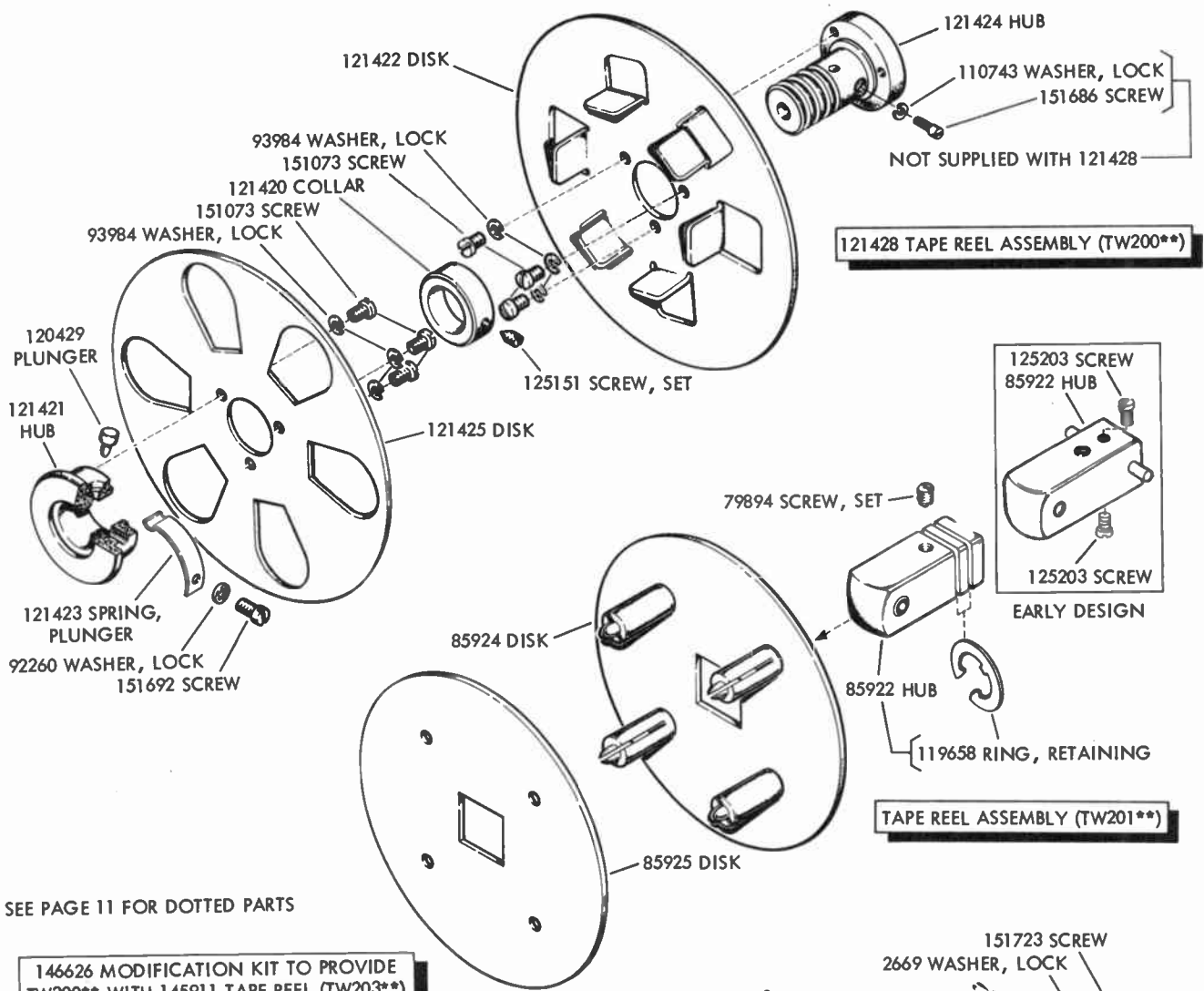
WIRING DIAGRAM-2632WD



UNLESS OTHERWISE SPECIFIED  
ALL PARTS SHOWN ABOVE ARE COMMON TO  
TW200\*\*, TW201\*\*, & TW203\*\*

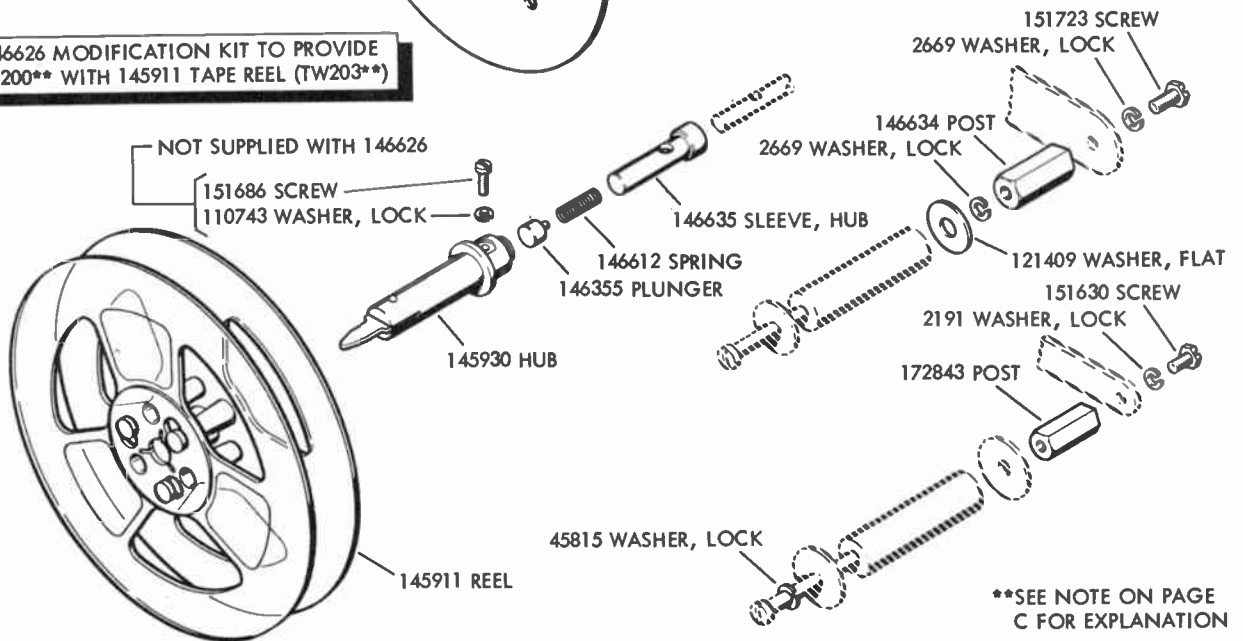
\*\*SEE NOTE ON PAGE  
C FOR EXPLANATION.

1075B

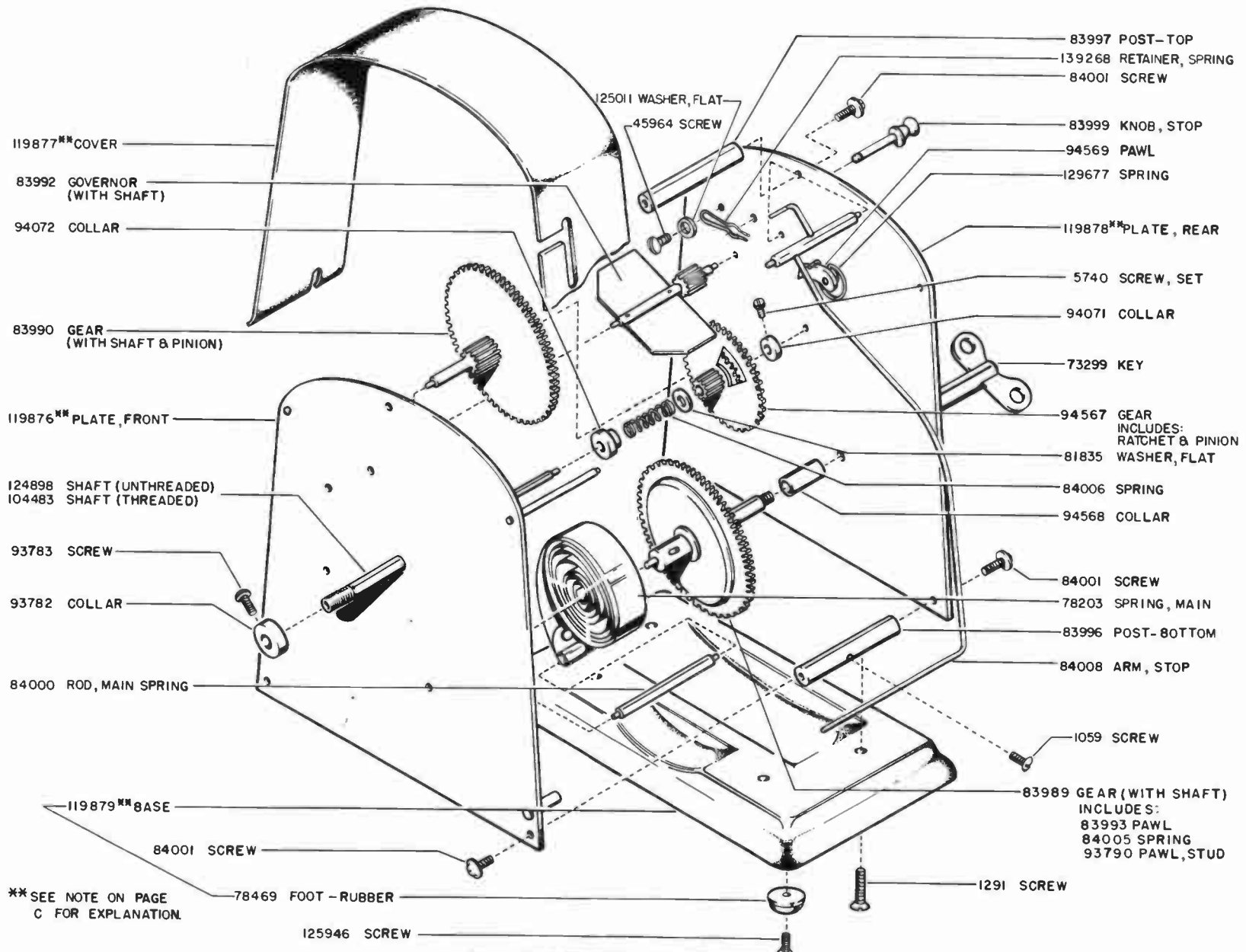


SEE PAGE 11 FOR DOTTED PARTS

146626 MODIFICATION KIT TO PROVIDE TW200\*\* WITH 145911 TAPE REEL (TW203\*\*)



\*\*SEE NOTE ON PAGE C FOR EXPLANATION



\*\*SEE NOTE ON PAGE C FOR EXPLANATION.

PARTS SHOWN ABOVE ARE COMMON TO ALL SPRING DRIVEN TAPE WINDERS

CHANGES 5

1075B

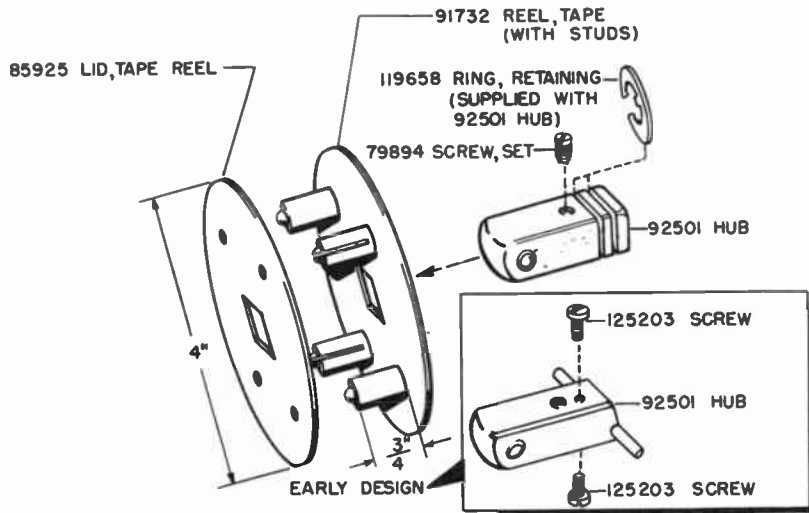


FIGURE 1

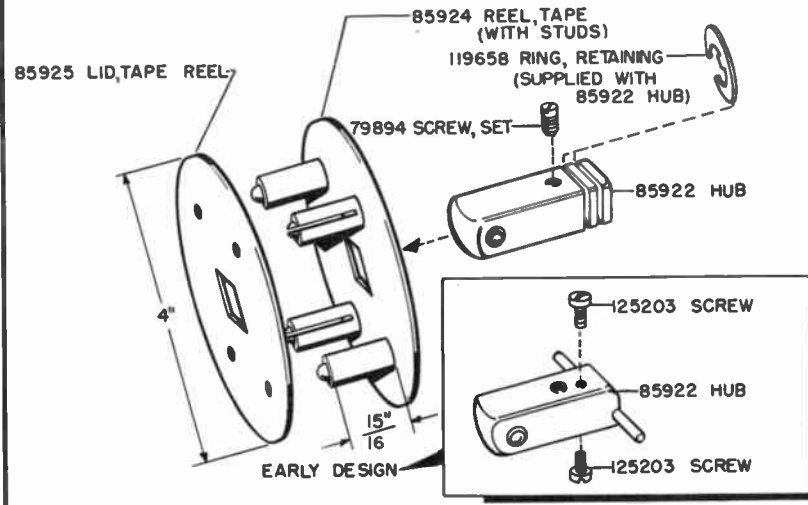


FIGURE 2

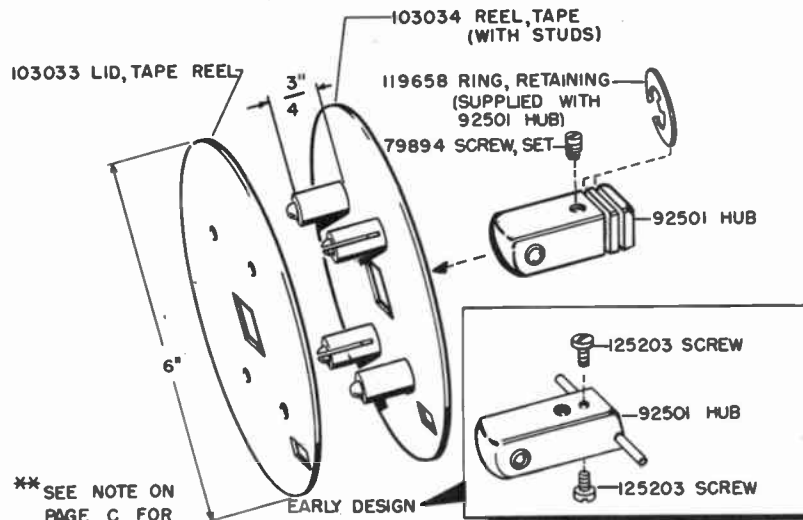


FIGURE 3

\*\* SEE NOTE ON PAGE C. FOR EXPLANATION.

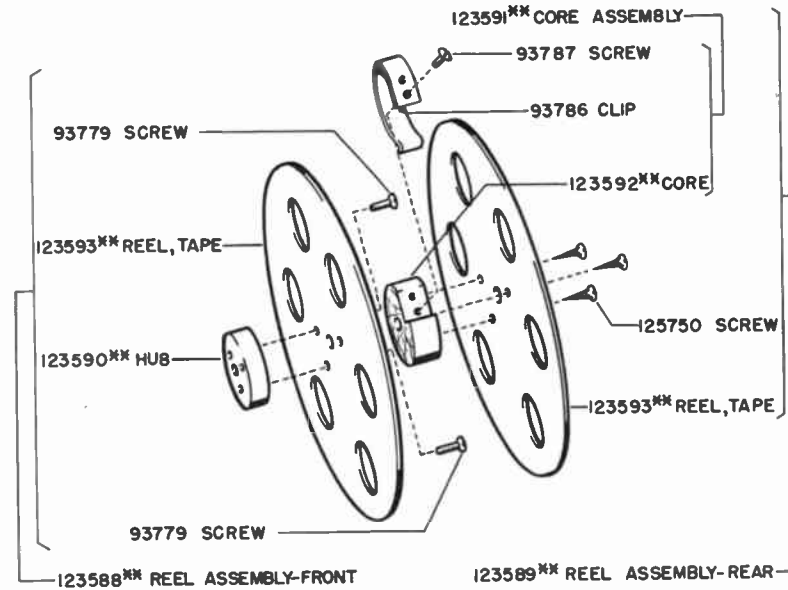


FIGURE 4

TAPE REELS  
FOR  
SPRING DRIVEN TAPE WINDERS

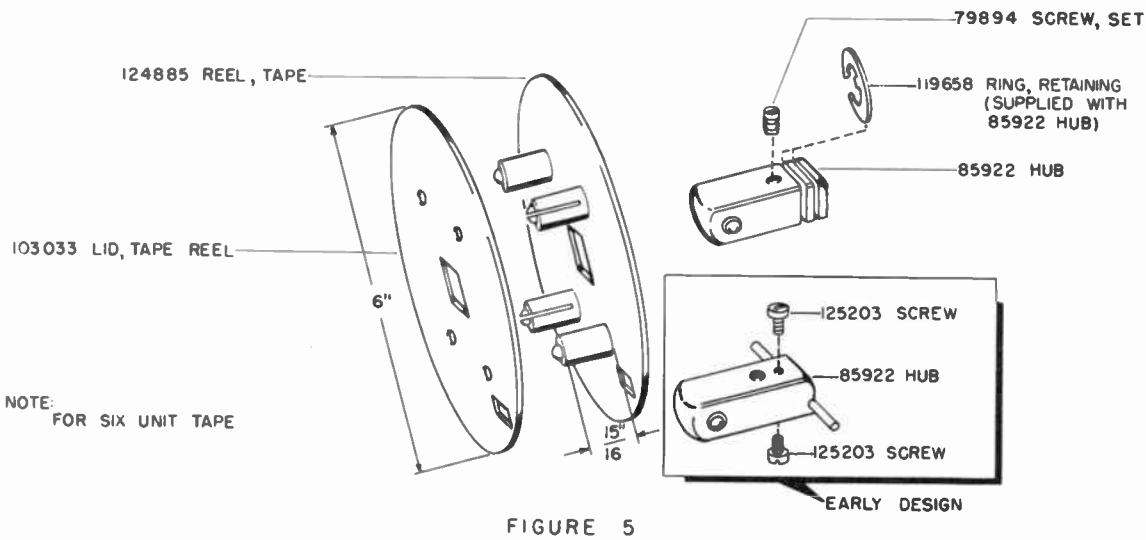
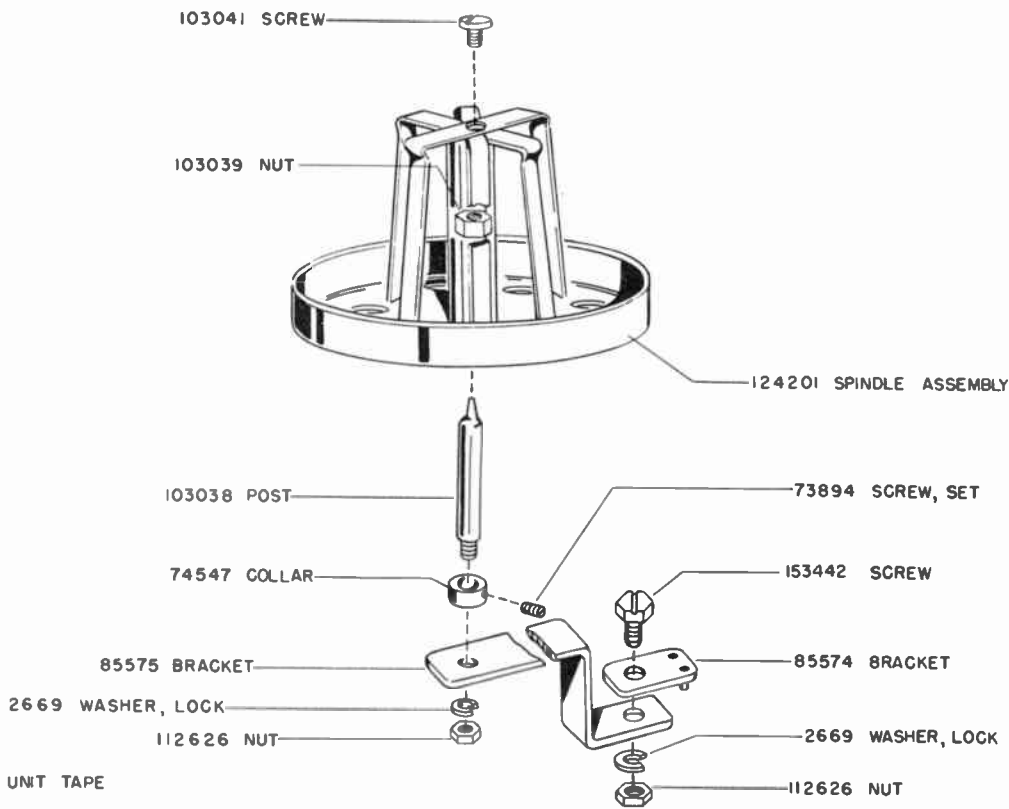
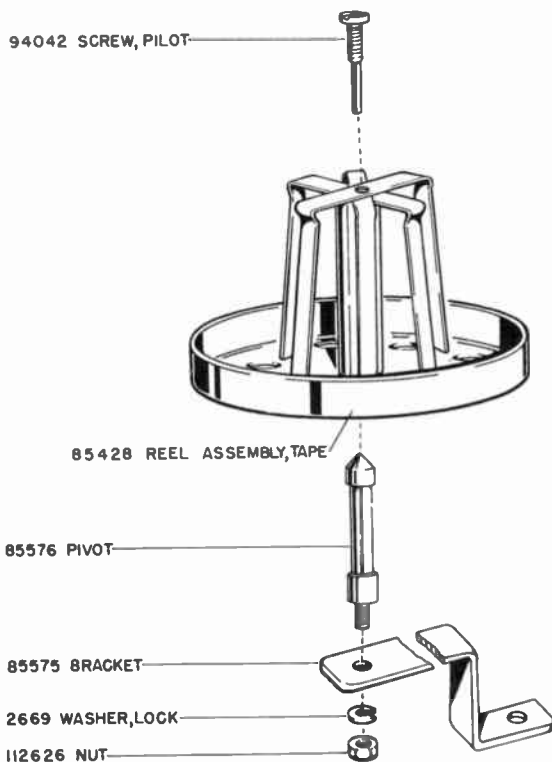


FIGURE 5

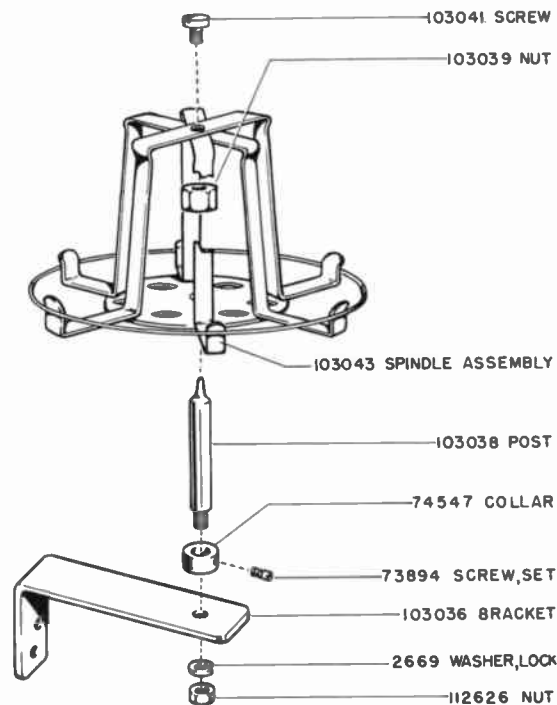


116836 SET OF PARTS FOR APPLYING CENTER UNWIND REEL  
(USED WITH SPRING DRIVEN TAPE WINDERS)  
(EXCLUDES PARTS IN FIGURE 5)

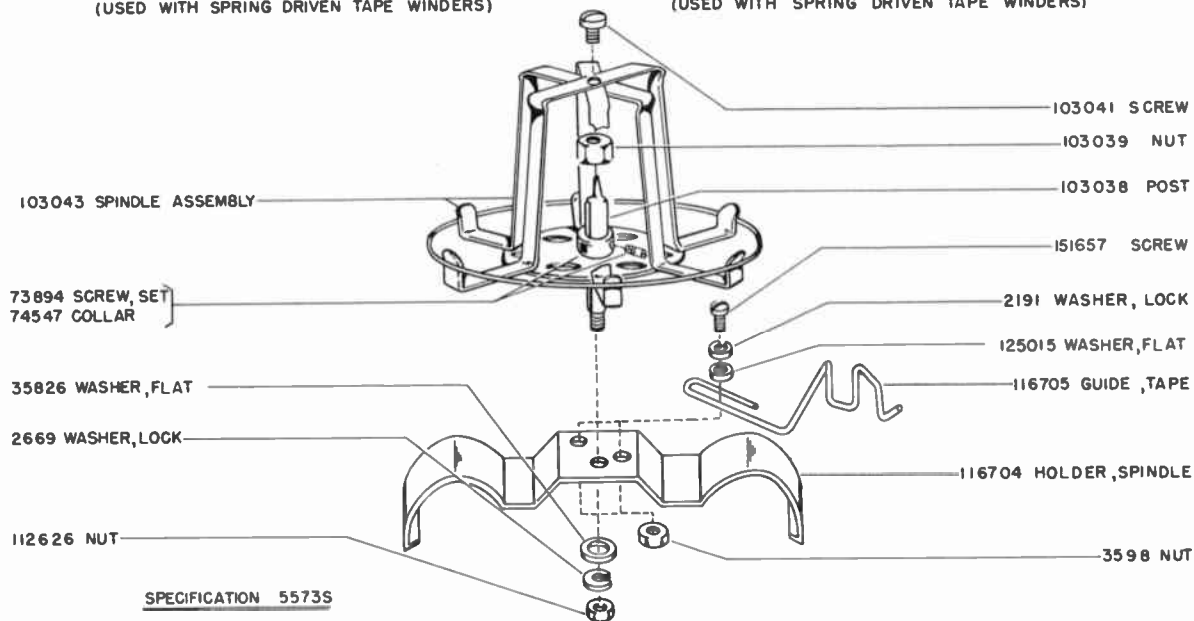




91819 SET OF PARTS FOR APPLYING CENTER UNWIND REEL  
(USED WITH SPRING DRIVEN TAPE WINDERS)

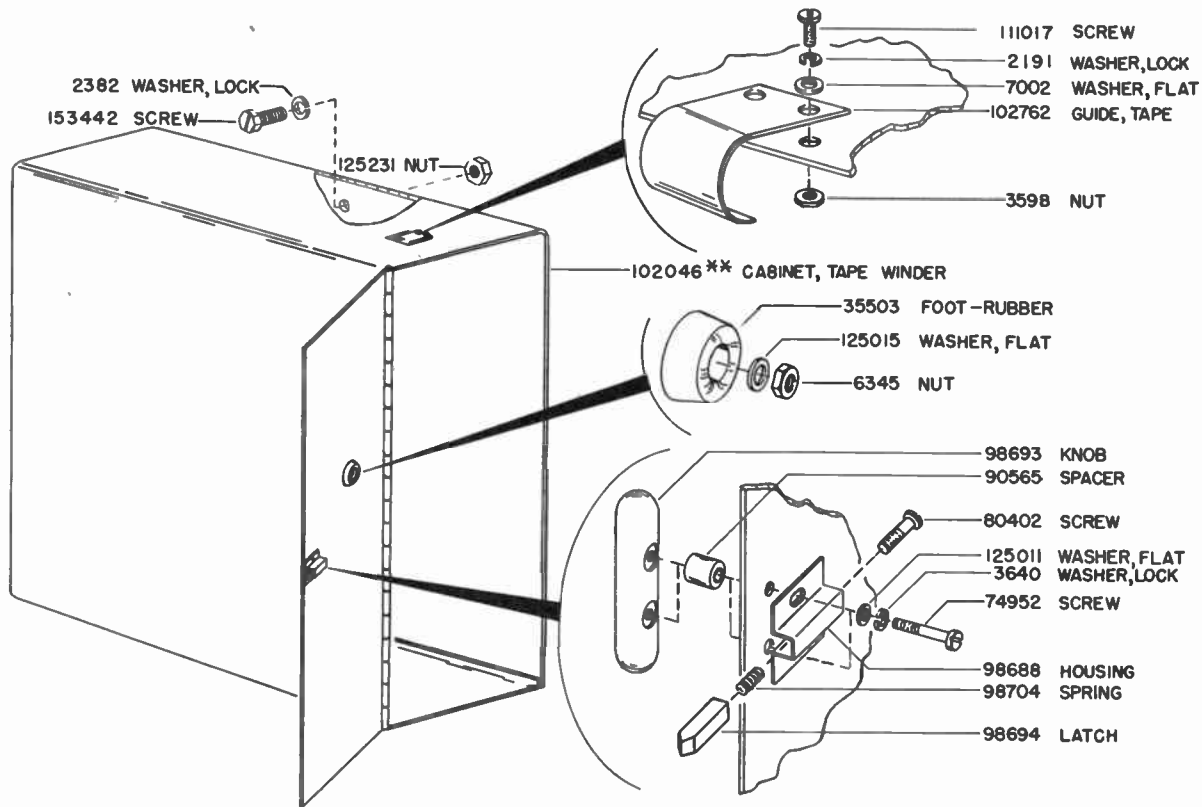


103035 SET OF PARTS FOR APPLYING CENTER UNWIND REEL  
(USED WITH SPRING DRIVEN TAPE WINDERS)

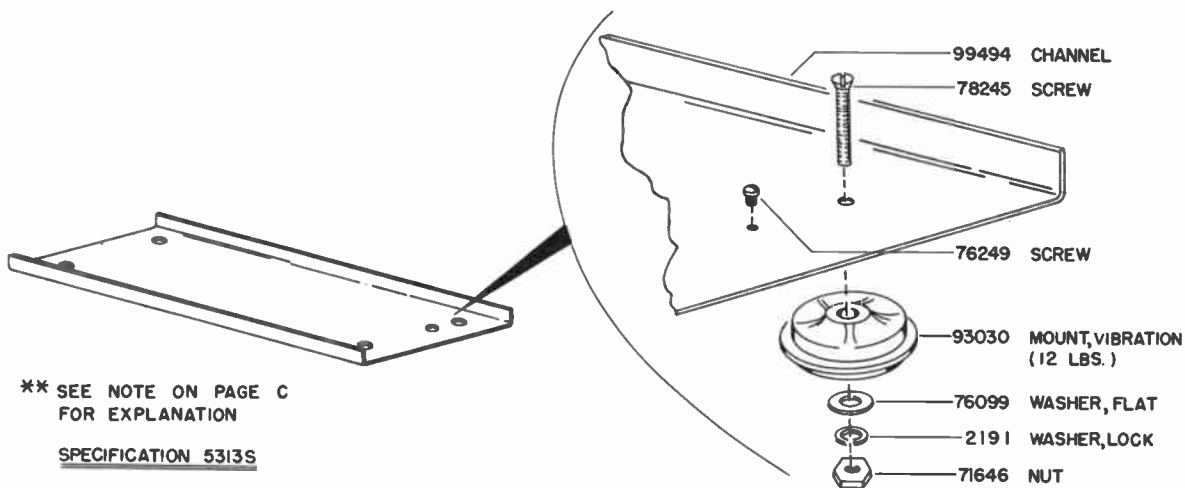


SPECIFICATION 5573S

114189 SET OF PARTS FOR APPLYING CENTER UNWIND REEL  
(USED ON A 14 TYPE TRANSMITTER DISTRIBUTOR COVER)



118B34\*\* TAPE WINDER CABINET ASSEMBLY

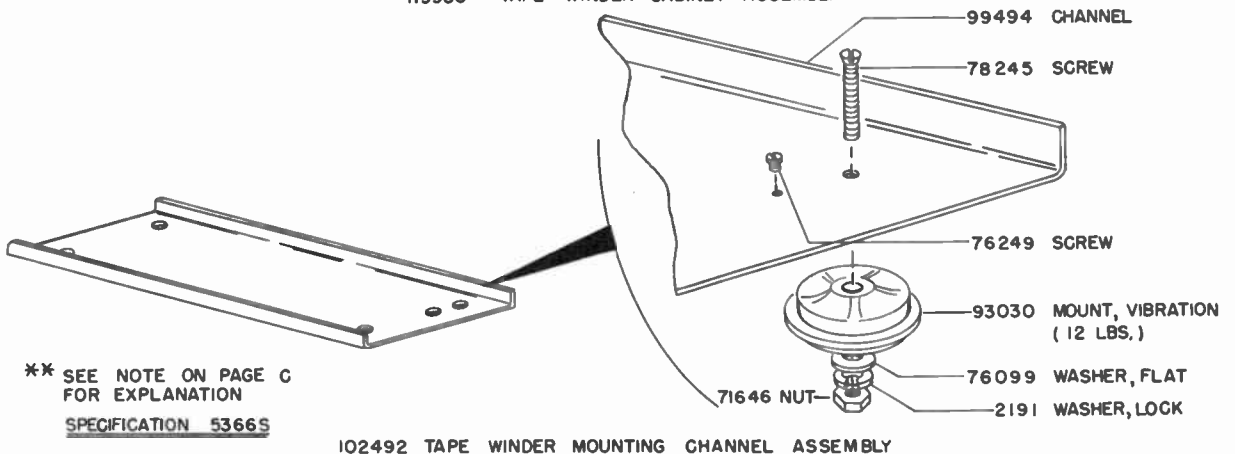
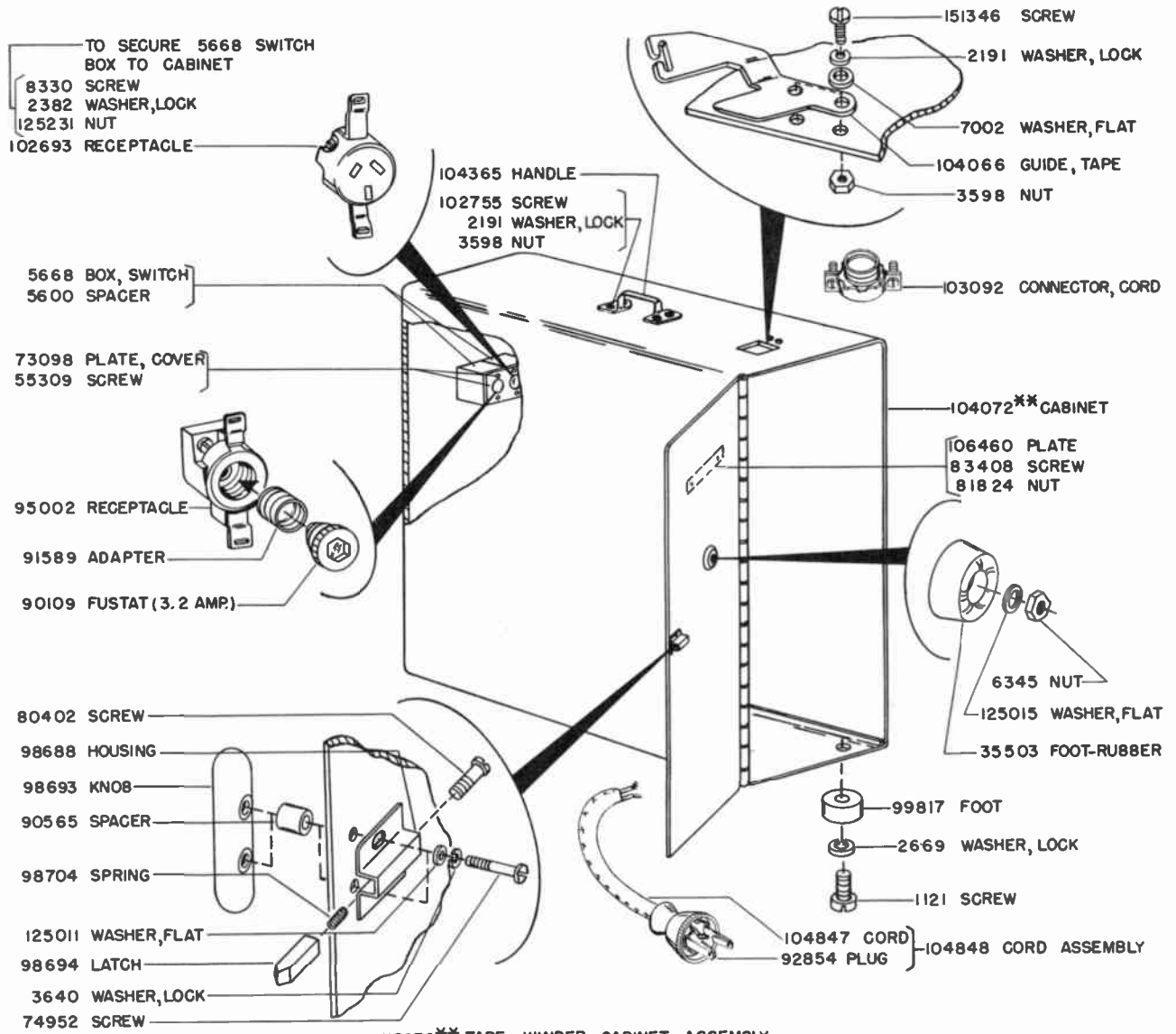


102492 TAPE WINDER MOUNTING CHANNEL ASSEMBLY

\*\* SEE NOTE ON PAGE C FOR EXPLANATION

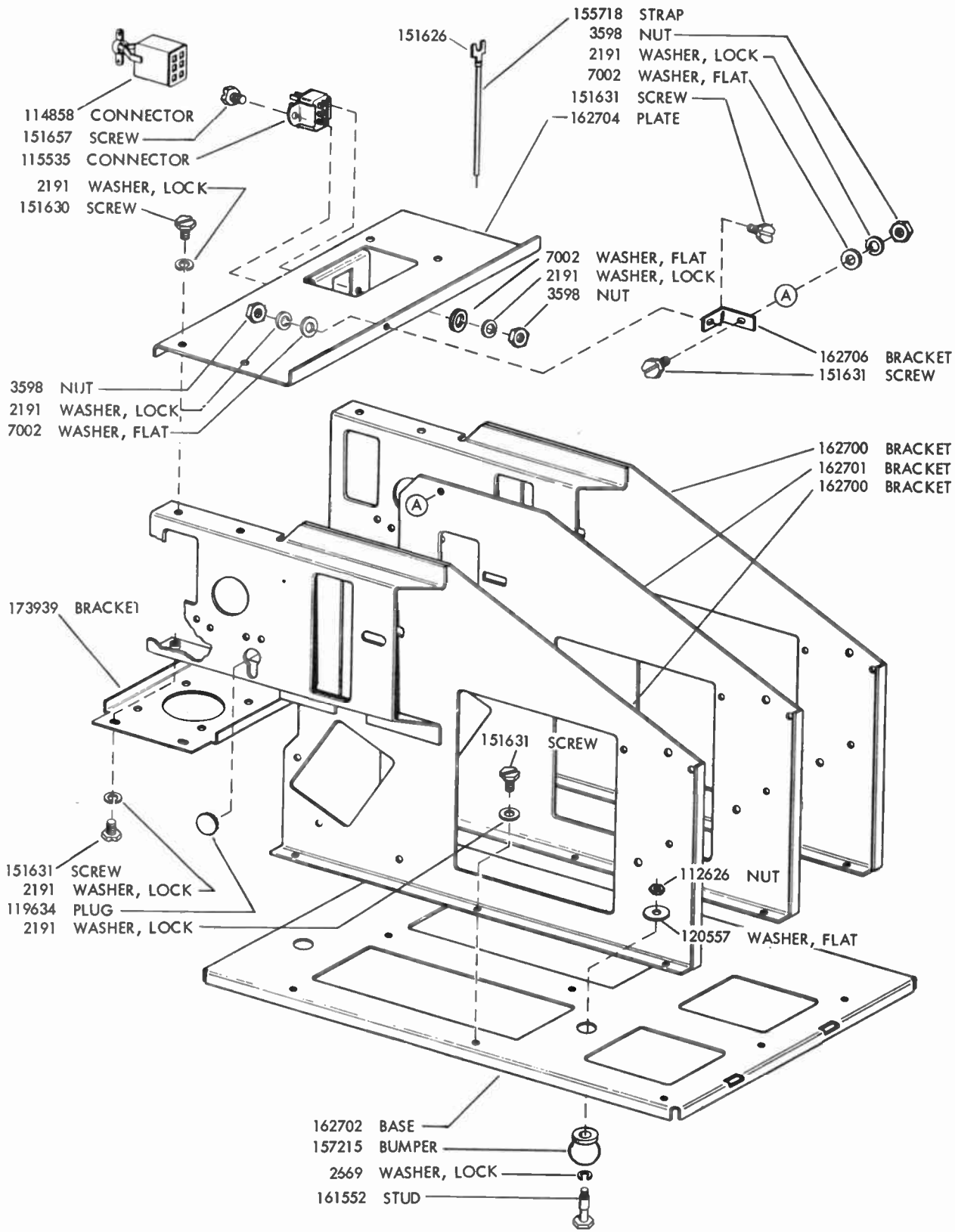
SPECIFICATION 5313S

115725\*\* SET OF PARTS TO PROVIDE MEANS FOR MOUNTING A MOTOR DRIVEN SINGLE-REEL TAPE WINDER TO LEFT SIDE OF TABLE FOR ALL SINGLE-REEL TAPE WINDERS INCLUDING TW5 (BELL 2A)



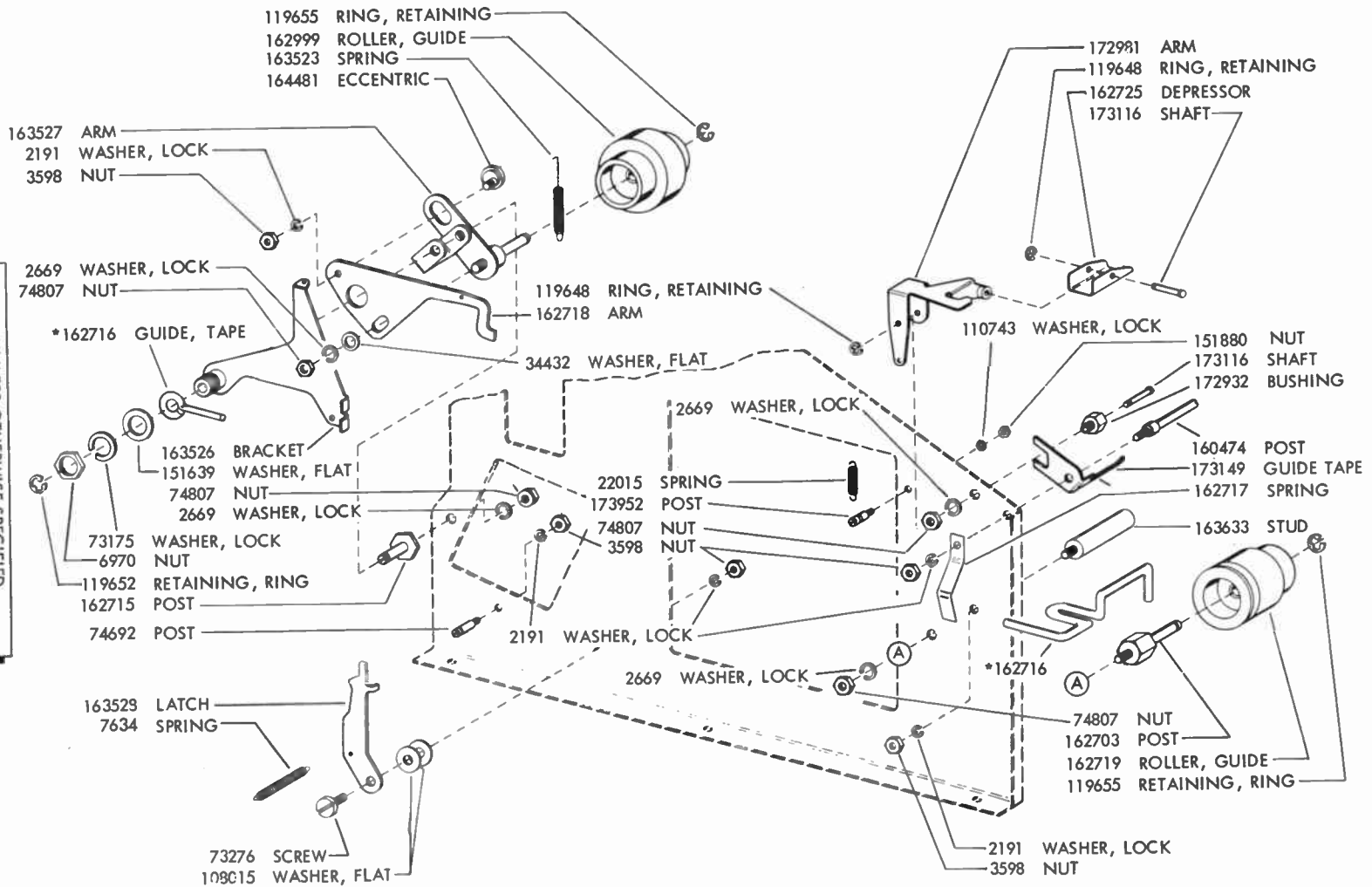
\*\* SEE NOTE ON PAGE C FOR EXPLANATION  
SPECIFICATION 5366S

115743\*\* SET OF PARTS TO PROVIDE MEANS FOR HOUSING A MOTOR DRIVEN SINGLE-REEL TAPE WINDER AT THE LEFT SIDE OF THE TABLE FOR ALL SINGLE-REEL TAPE WINDERS INCLUDING TW5 (BELL 2A)



UNLESS OTHERWISE SPECIFIED  
 ALL PARTS SHOWN ABOVE ARE COMMON TO  
 TW14 & TW15

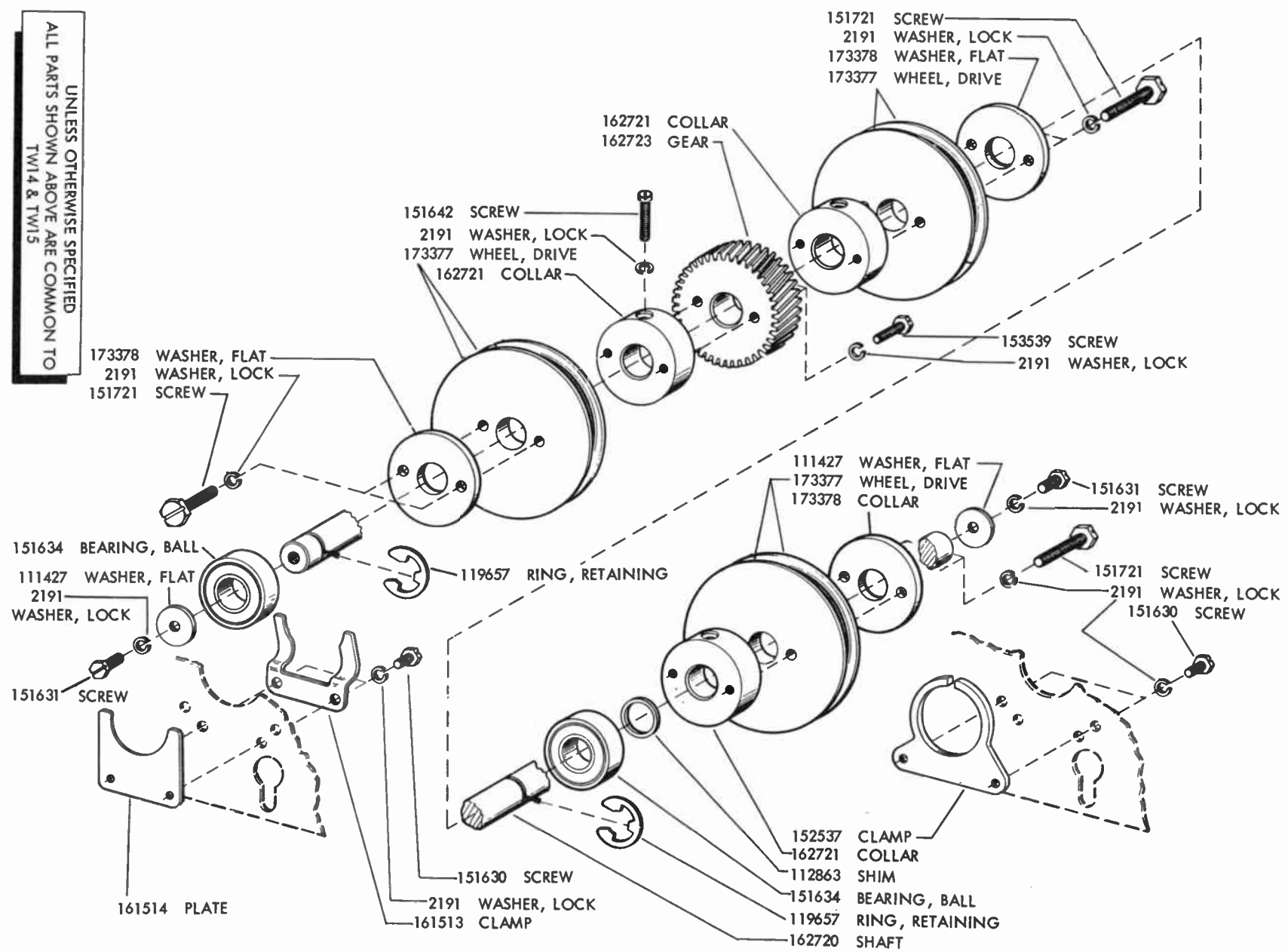
UNLESS OTHERWISE SPECIFIED  
ALL PARTS SHOWN ABOVE ARE COMMON TO  
TW14 & TW15



\*THE 162716 TAPE GUIDE IS REPLACED BY A 173953 GUIDE  
WHEN THE TAPE WINDER ACCOMMODATES REPERFORATOR  
INSTALLED ON THE LOWER SHELF.

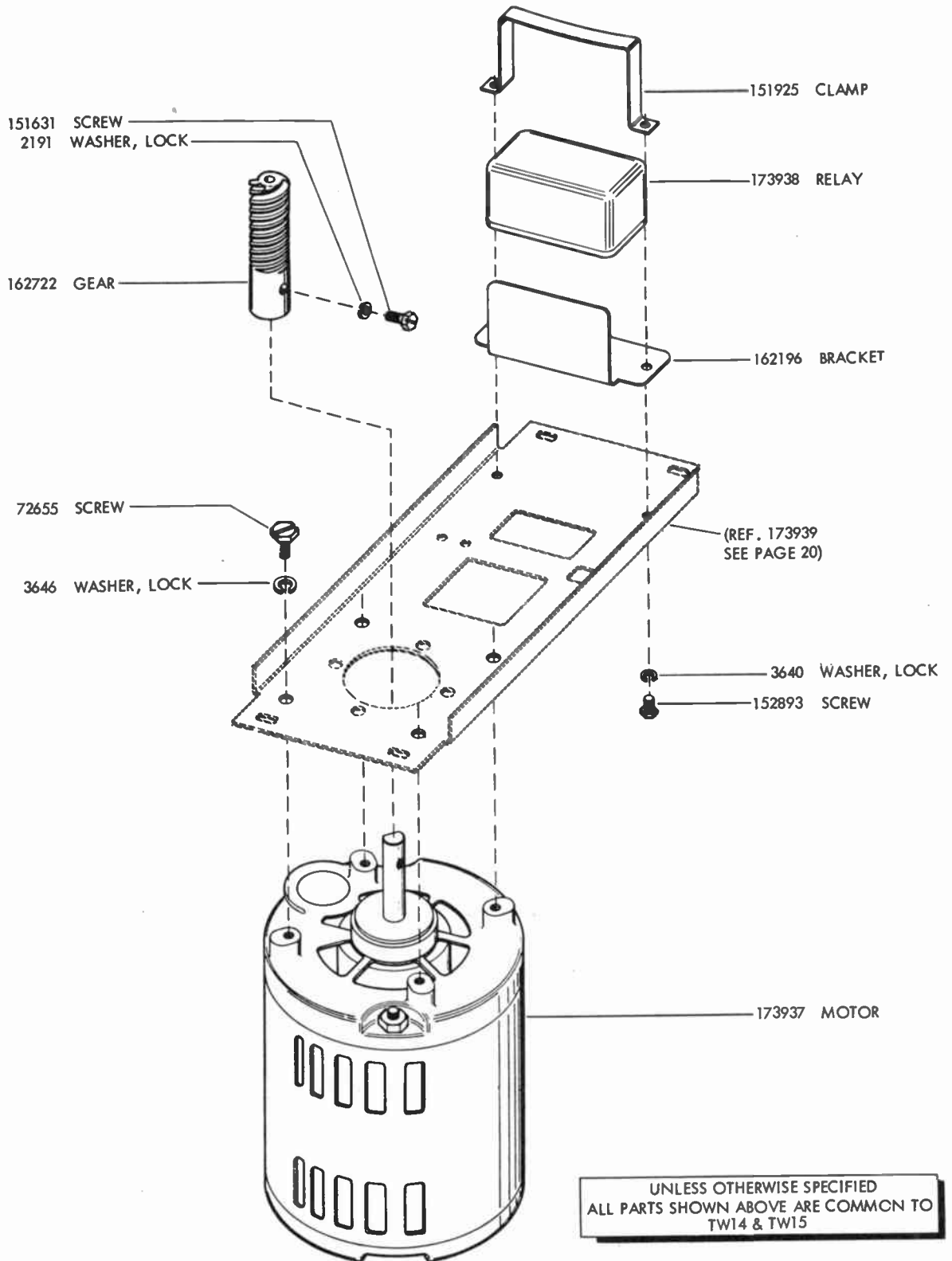
UNLESS OTHERWISE SPECIFIED  
ALL PARTS SHOWN ABOVE ARE COMMON TO  
TW14 & TW15

SHAFT ASSEMBLY

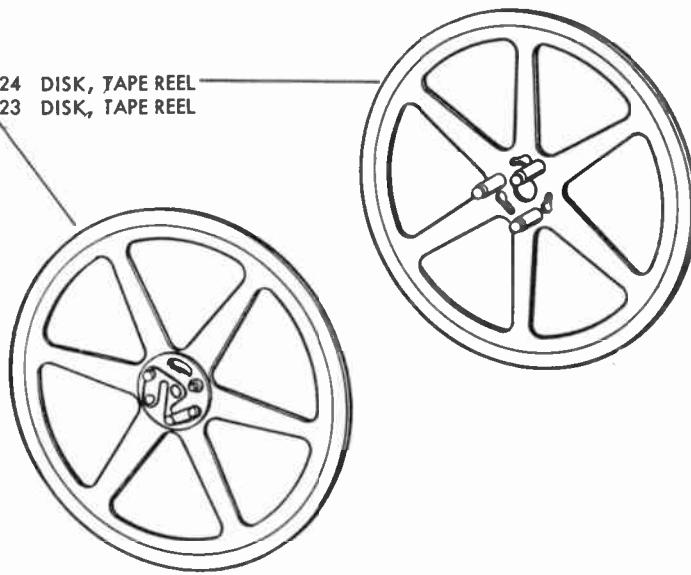


1075B

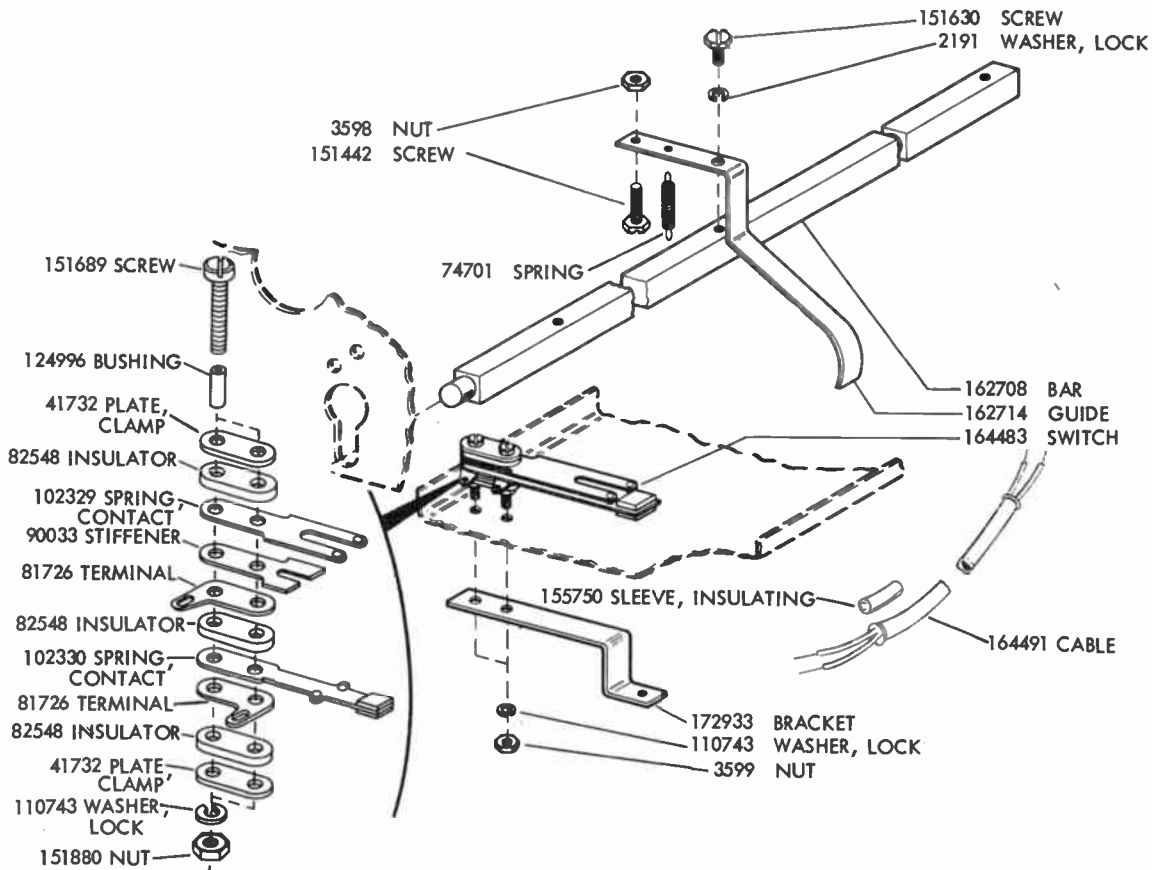
CHANGE 3



162824 DISK, TAPE REEL  
 162823 DISK, TAPE REEL

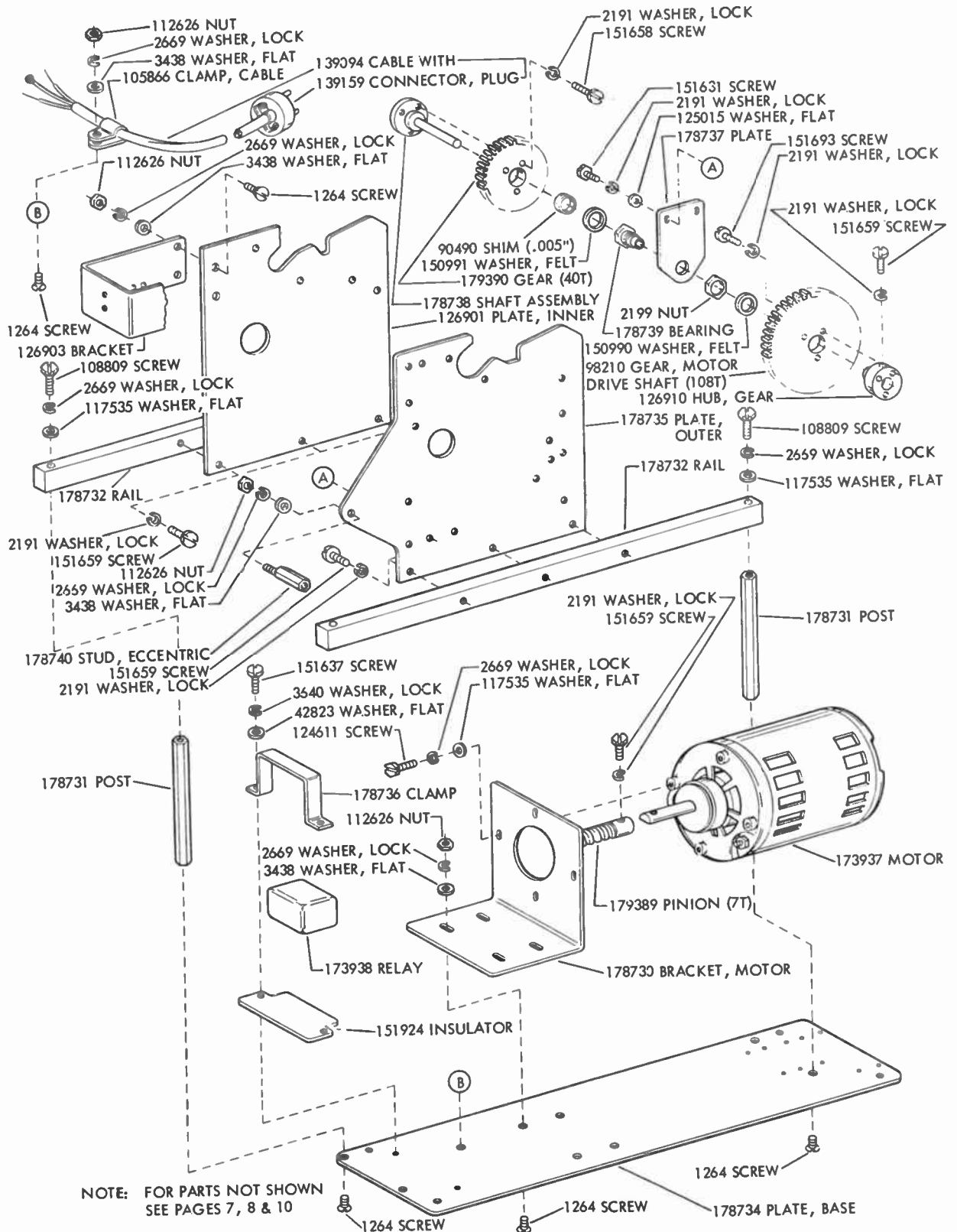


**TAPE REELS TW14 & TW15**



164516 MODIFICATION KIT TO PROVIDE REEL FULL ALARM





NOTE: FOR PARTS NOT SHOWN  
SEE PAGES 7, 8 & 10

ALL PARTS SHOWN ABOVE ARE COMMON TO  
TW16 ONLY

## NUMERICAL INDEX

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1059	Screw (6-32 x 7/32 Rd) 14	73098	Plate, Cover 19
1121	Screw (10-32 x 3/8 Fil) 1, 19	73175	Washer, Lock 4, 5, 10, 21
1181	Screw (6-40 x 1/4 Fil) 3	73276	Screw (6-40 Shoulder) 21
1187	Screw (10-32 x 1/4 Fil) 1, 2	73299	Key 14
1223	Screw (10-32 x 1/2 Fil) 1	73894	Screw (6-40 x 1/8 Set) 16, 17
1248	Screw (6-40 x 1/2 Flat) 7	74283	Washer, Spring 5, 10
1264	Screw (10-32 x 1/2 Flat) 10, 25	74547	Collar 16, 17
1268	Screw (6-40 x 5/16 Flat) 1	74682	Screw (10-32 x 1-1/8 Flat) 4
1286	Screw (10-32 x 7/16 Fil) 7	74692	Post 21
1291	Screw (6-32 x 3/4 Flat) 14	74701	Spring 24
2191	Washer, Lock (Sev.)	74702	Spring 1
2199	Nut (7/16-32 Hex) 9, 25	74807	Nut (10-32 Hex) 21
2382	Washer, Lock 18, 19	74952	Screw (4-40 x 5/8 Fil) 18, 19
2449	Washer, Lock 10	75257	Post 1
2539	Nut (3/8-32 Hex) 4, 5, 10	76086	Spring 4, 8
2669	Washer, Lock (Sev.)	76099	Washer, Flat 18, 19
2836	Spring 11	76249	Screw (6-40 x 1/8 Fil) 1, 18, 19
3438	Washer, Flat 1, 2, 3, 4, 7, 8, 9, 10, 25	76281	Terminal 6
3598	Nut (6-40 Hex) (Sev.)	76395	Disk, Friction 4, 8
3599	Nut (4-40 Hex) 24	76396	Washer, Felt 4, 8
3608	Spring 1	76450	Shim (.028") 4, 8
3640	Washer, Lock 18, 19, 23, 25	76484	Fan 6
3646	Washer, Lock 23	77140	Nut (9/16-32 Hex) 2, 4, 8
4814	Washer, Lock 4, 8	78203	Spring 14
4851	Terminal 10	78245	Screw (6-32 x 7/8 Flat) 18, 19
5600	Spacer 19	78369	Connector 6, 10
5668	Box, Switch 19	78420	Collar 2
5740	Screw (2-56 x 1/4 Fil) 14	78454	Screw (10-32 x 7/16 Flat) 9
6032	Screw (8-32 x 7/16 Fil) 12	78469	Foot 14
6345	Nut (6-32 Hex) 18, 19	79894	Screw (10-32 x 7/32 Set) 13, 15, 16
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6994	Bearing, Ball 4, 8	81726	Terminal 24
7002	Washer, Flat (Sev.)	81824	Nut (4-40 Hex) 19
7481	Hub 2	81835	Washer, Flat 14
7634	Spring 21	82283	Motor 6
7825	Spring 7	82548	Insulator 24
8330	Washer, Flat 7, 19	83408	Screw (4-40 x 3/16 Rd) 19
8333	Screw (10-32 x 3/8 Rd) 1	83413	Buffer 1
22015	Spring 21	83989	Gear (80T) 14
34432	Washer, Flat 2, 3, 10, 21	83990	Gear (72T) 14
35503	Foot 18, 19	83992	Governor 14
35551	Screw (10-32 x 3/8 Flat) 2, 10	83993	Pawl 14
35826	Washer, Flat 17	83996	Post 14
41663	Washer, Flat 5, 10	83997	Post 14
41732	Plate, Clamp 24	83999	Knob 14
41974	Spring 7	84000	Rod 14
42823	Washer, Flat 25	84001	Screw (6-32 x 1/4 Washer Hd.) 14
45815	Washer, Lock 13	84005	Spring 14
45964	Screw (4-36 x 3/16 Rd) 14	84006	Spring 14
45969	Screw (10-32 x 3/4 Flat) 1, 5	84008	Arm 14
55010	Screw (10-32 Shoulder) 1, 7	85428	Reel Assembly 17
55309	Screw (6-32 x 1/2 Oval) 19	85574	Bracket 16
70497	Nut (5/16-32 Hex) 4, 8	85575	Bracket 16, 17
71047	Shim (.010") 6	85576	Pivot 17
71073	Washer, Flat 12	85832	Winder, Tape B
71646	Nut (6-32 Hex) 18, 19	85922	Hub 13, 15, 16
71659	Screw (6-40 Shoulder) 11	85924	Reel 13, 15
71971	Gear (35T) 2	85925	Lid 13, 15
71972	Pinion (5T) 6	85931	Post 7

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90033	Stiffener 24	98228	Bearing 2
90109	Fustat (3.2 Amp) 19	98229	Washer, Felt 2
90480	Nut, Capstan 4, 8	98231	Shaft 2
90490	Shim (.005") 9, 25	98232	Plate - Outer 1
90565	Spacer 18, 19	98233	Plate - Inner 1
90790	Washer, Flat 9	98234	Bracket, Bearing 2
90791	Washer, Lock 12	98235	Plate, Bearing 4, 8
91280	Terminal 6, 11	98236	Lever 1
91589	Adapter 19	98237	Pin 1, 7
91683	Nut (15/32-32 Hex) 9	98238	Bracket 1
91684	Nut (15/32-32 Ring) 9	98239	Guide 1
91729	Winder, Tape B	98240	Guard 1
91732	Reel, Tape 15	98241	Post 1, 4
91819	Set of Parts B, 17	98242	Post 1
92260	Washer, Lock 13	98421	Pin 1
92501	Hub 15	98423	Plate 2
92854	Connector 12, 19	98688	Housing 18, 19
93030	Mount, Vibration 18, 19	98693	Knob 18, 19
93582	Washer, Flat 6	98694	Latch 18, 19
93779	Screw (4-36 x 1/4 Flat) 15	98704	Spring 18, 19
93782	Collar 14	99082	Screw (6-32 x 11/16 Hex) 10
93783	Screw (4-36 x 1/4 Fil) 14	99381	Foot 11
93786	Clip 15	99494	Channel 18, 19
93787	Screw, Wood (3/16" Long) 15	99496	Plate, Base 1
93790	Pawl Stud 14	99497	Plate - Inner 1
93791	Winder Tape B	99498	Shaft 2
93984	Washer, Lock 13	99499	Bracket, Bearing 2
94042	Screw (6-40 Pilot) 17	99712	Screw (10-32 x 5/16 Hex) 7, 8, 9
94071	Collar 14	99817	Foot 19
94072	Collar 14	101965	Connector 6
94567	Gear (60T) 14	102017	Washer, Beveled 4, 5, 10
94568	Collar 14	102046**	Cabinet 18
94569	Pawl 14	102073	Reel Assembly 5
94665	Screw (6-40 Shoulder) 11	102212	Plate, Bearing-Inner 1, 7
95002	Receptacle 19	102213	Plate, Bearing-Outer 1, 7
98200	Reel Assembly 5	102214	Screw (6-40 x 13/64 Flat) 1, 7
98201	Hub 5	102329	Spring, Contact 24
98202	Shaft 5	102345	Hub 4, 5, 10
98203	Gear (144T) 4, 5, 10	102346	Shaft 4, 5, 10
98204	Flange 4, 5	102492	Channel Assembly 18, 19
98205	Reel 4, 5	102495	Cord Assembly 6
98206	Core 5	102693	Receptacle 19
98207	Knob 4, 5	102755	Screw (6-40 x 7/16 Flat) 19
98208	Core 5	102762	Guide 18
98209	Pinion (10T) 8	102898	Connector 6
98210	Gear (108T) 2, 9, 25	102899	Cord Assembly 6
98212	Post 1	102032	Winder, Tape B
98213	Pad 1	103033	Lid 15, 16
98214	Channel 1	103034	Reel 15
98215	Plate, Base 1	103035	Set of Parts B, 17
98216	Support 1	103036	Bracket 17
98217	Stud 1	103038	Post 16, 17
98221	Bracket 2, 3	103039	Nut (6-40 Special) 16, 17
98222	Shaft, Clutch 8	103041	Screw (6-40 x 1/4 Fil) 16, 17
98223	Cam, Stop 4, 8	103043	Spindle Assembly 17
98224	Block, Bearing 1		

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104302	Pin 10	119877**	Cover 14
104365	Handle 19	119878**	Plate - Rear 14
104478	Winder, Tape B	119879**	Base 14
104483	Shaft 14	119936**	Cabinet Assembly 19
104847	Cord 19	120175	Plate, Designation 9
104848	Cord Assembly 19	120429	Plunger 13
105866	Clamp, Cable 9, 25	120557	Washer, Flat 20
106460	Plate 19	121245	Clamp, Cable 1, 2
108015	Washer, Flat 21	121332	Arm, Tape - Left 1
108353	Screw (6-40 x 1/2 Fil) 11	121333	Arm, Tape - Right 1, 7, 25
108809	Screw (10-32 x 27/32 Hex) 25	121398**	Housing 11
110191	Washer, Lock 12	121399	Motor 12
110664	Switch, Toggle 9	121400	Plate 12
110711	Spacer 4	121401	Grommet 12
110712	Core 4	121402	Grommet 11
110713	Core 4	121403	Strip 11
110715	Reel Assembly 4	121404	Wedge 11
110743	Washer, Lock 11, 13, 21, 24	121405	Bushing 11
110822	Screw (10-32 x 13/16 Flat) 4	121406	Lever 11
110823	Screw (10-32 x 11/16 Flat) 4	121407	Shaft 11
111017	Screw (6-40 x 5/16 Fil) 18	121408	Roller 11
111427	Washer, Flat 22	121409	Washer, Fiber 11, 13
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111667	Plate - Inner 1	121411	Cover 11, 12
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111671	Shaft 3	121413	Spacer 11
111672	Bracket, Bearing 3	121414	Stud 11
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111674	Coupling, Driving 3	121416	Roller 11
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112080	Washer, Flat 11	121418	Screw (6-40 Shoulder) 11
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112627	Nut (2-56 Hex) 12	121421	Hub 13
112863	Spacer 22	121422	Disk 13
114189	Set of Parts B, 17	121423	Spring 13
114237	Screw (2-56 x 1/2 Fil) 12	121424	Hub 13
114501	Gear, Intermediate 4, 8	121425	Disk 13
114858	Connector, Receptacle 20	121426	Strap 11
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115743**	Set of Parts B, 19	122960	Post 11
115753**	Winder, Tape B	123587**	Winder, Tape B
115754**	Winder, Tape B	123588**	Reel Assembly 15
116704	Holder, Spindle 17	123589**	Reel Assembly 15
116705	Guide, Tape 17	123590**	Hub 15
116835	Set of Parts B, 16	123591**	Core Assembly 15
117535	Washer, Flat 25	123592**	Core 15
118834**	Cabinet Assembly 18	123593**	Reel 15
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119648	Ring, Retaining 21	123700	Plate, Locking 5, 10
119652	Ring, Retaining 11, 12, 21	123701	Guard 4, 8
119653	Ring, Retaining 10	123702	Guard, Gear - Left 2, 7
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124434	Bracket 12	126988	Arm 7
124435	Arm 11	125989	Bracket 7
124437	Arm 12	126990	Cable 10
124438	Stud 12	126992	Reel Assembly 10
124439	Bracket, Stop 12	129082	Plate, Directed 7
124440	Roller 12	129425	Spring 11
124441	Pulley, Brake 11	129675	Guide 7
124442	Strip 12	129676	Washer, Clamp 7
124443	Switch 12	129677	Spring 14
124451	Switch 11	135378	Pinion (10T) 4
124452	Switch 12	135379	Shaft, Clutch 4
124611	Screw (8-32 x 3/8 Hex) 25	139092	Plate, Base 7
124884**	Winder, Tape B	139094	Cable Assembly 10, 25
124885	Reel 16	139159	Connector 10
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124898	Shaft 14	139268	Spring 14
124996	Bushing 24	145911	Reel 13
125006	Screw (10-32 x 5/8 Flat) 5, 10	145930	Hub 13
125011	Washer, Flat 14, 18, 19,	146355	Plunger 13
125015	Washer, Flat 8, 11, 17, 18, 19, 25	146612	Spring 13
125120	Screw (6-40 Shoulder) 1, 7	146626	Modification Kit 13
125121	Screw (6-40 Special) 13	146634	Post 13
125151	Screw (6-40 x 3/16 Set) 13	146635	Sleeve, Hub 13
125170	Screw (8-32 x 5/16 Fil) 11	150040	Screw (6-40 x 5/8 Fil) 6
125171	Screw (10-32 x 1/2 Flat) 2	150710	Screw (6-40 x 1-1/4 Fil) 11, 12
125185	Screw (10-32 x 1/4 Rd) 2	150854	Spacer 12
125203	Screw (4-40 x 5/32 Fil) 13, 15, 16	150990	Washer, Felt 25
125218	Nut (1/4-32 Hex) 10	150991	Washer, Felt 9, 25
125231	Nut (10-32 Hex) 18, 19	151073	Screw (4-40 x 5/32 Fil) 13
125245	Spring 10	151346	Screw (6-40 x 3/8 Fil) 1, 2, 4, 6, 19
125750	Screw, Wood (1/2" Long) 15	151442	Screw (6-40 x 1/2 Hex) 24
125946	Screw (4-36 x 3/8 Flat) 14	151606	Screw (10-32 x 1/4 Hex) 7
126721	Collar 22	151626	Terminal 20
126899	Plate, Base 7	151630	Screw (6-40 x 1/4 Hex) 7, 13, 20, 22, 24
126900	Bracket, Motor 10	151631	Screw (6-40 x 5/16 Hex) 9, 20, 22, 23, 25
126901	Plate - Inner 7, 25	151634	Bearing, Ball 22
126902	Plate - Outer 7	151637	Screw (4-40 x 1/4 Fil) 25
126903	Bracket 9, 25	151639	Washer, Flat 21
126904	Bracket 9	151642	Screw (6-40 x 3/4 Fil) 22
126905	Bearing 9	151657	Screw (6-40 x 1/4 Fil) 1, 9, 11, 12, 17, 20
126907	Shaft Assembly 9	151658	Screw (6-40 x 5/16 Fil) 9, 25
126908	Gear, Driven (40T) 9	151659	Screw (6-40 x 1/2 Fil) 2, 4, 5, 7, 9, 10, 25
126909	Pinion (7T) 10	151686	Screw (4-40 x 3/8 Fil) 13
126910	Hub 9, 25	151689	Screw (4-40 x 3/4 Fil) 24
126911	Stud 7	151692	Screw (6-40 x 3/16 Fil) 2, 7, 8, 13
126912	Lever 7	151693	Screw (6-40 x 9/16 Fil) 2, 9, 25
126913	Bracket 7	151721	Screw (10-32 x 1/4 Hex) 22
126914	Guide 7	151723	Screw (10-32 x 3/8 Hex) 2, 3, 4, 9, 13
126915	Block 7	151724	Screw (10-32 x 5/8 Hex) 6, 10
126916	Arm 7	151880	Nut (4-40 Hex) 21, 24
126917	Block, Mounting 7	151924	Insulator 25
126918	Disk 10	151925	Clamp 23
126919	Bracket 9	152537	Clamp 22
126920	Spring 10	152893	Screw (4-40 x 1/4 Hex) 11, 23
126921	Core 10	153442	Screw (10-32 x 1/2 Hex) 6, 16, 18
126922	Core 10	153539	Screw (6-40 x 7/16 Hex) 22

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155718	Strap 20	163526	Bracket 21
157215	Bumper 20	163527	Arm 21
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159222	Reel Assembly 10	163633	Post 21
159227	Core 10	164481	Screw, Eccentric (6-40) 21
159228	Core 10	164483	Switch Assembly 24
160471	Shaft 10	164491	Cable 24
160472	Hub 10	164516	Modification Kit 24
160473	Block 10	172843	Post 13
160474	Post 21	172932	Stud 21
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161514	Plate 22	172931	Arm 21
161552	Screw, Shoulder (10-32) 20	173116	Pin 21
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162700	Bracket 20	173377	Wheel, Drive 22
162701	Bracket 20	173378	Collar 22
162702	Base 20	173937	Motor, A.C. Induction -115 Volt 23, 25
162703	Post 21	173938	Relay 23
162704	Plate 20	173939	Bracket 20
162706	Bracket 20	173952	Post 21
162708	Rod, Pivot 24	173953	Guide, Tape 21
162714	Arm 24	173938	Relay 23, 25
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162716	Guide, Tape 21	178731	Post, Mounting 25
162717	Spring 21	178732	Rail, Mounting 25
162718	Arm 21	178734	Plate, Base 25
162719	Roller, Guide 21	178735	Plate, Outer 25
162720	Shaft 22	178736	Clamp, Relay 25
162721	Collar 22	178737	Plate 25
162722	Gear (4T) 23	178738	Shaft 25
162723	Gear (40T) 22	178739	Bearing 25
162725	Depressor, Chad 21	178740	Stud, Eccentric 25
162823	Disk, Tape Reel 24	179389	Pinion (7T) 25
162824	Disk, Tape Reel 24	179390	Gear (40T) 25
162999	Roller 21		



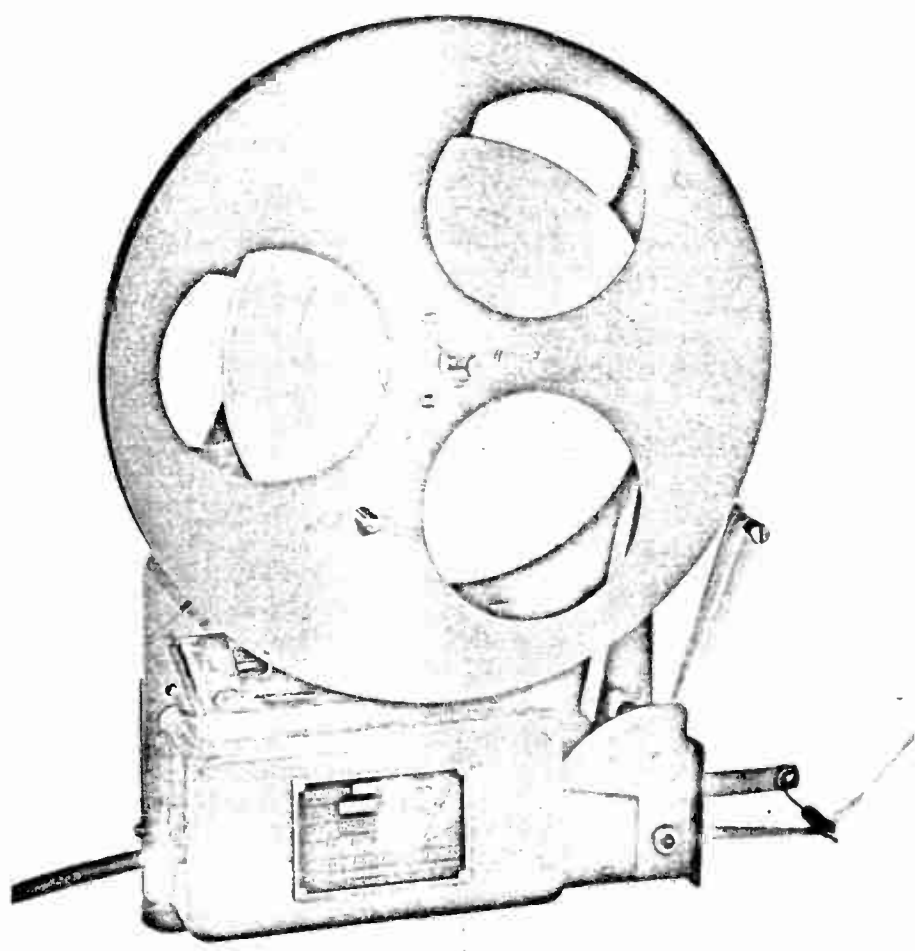




# TAPE WINDER TW-5

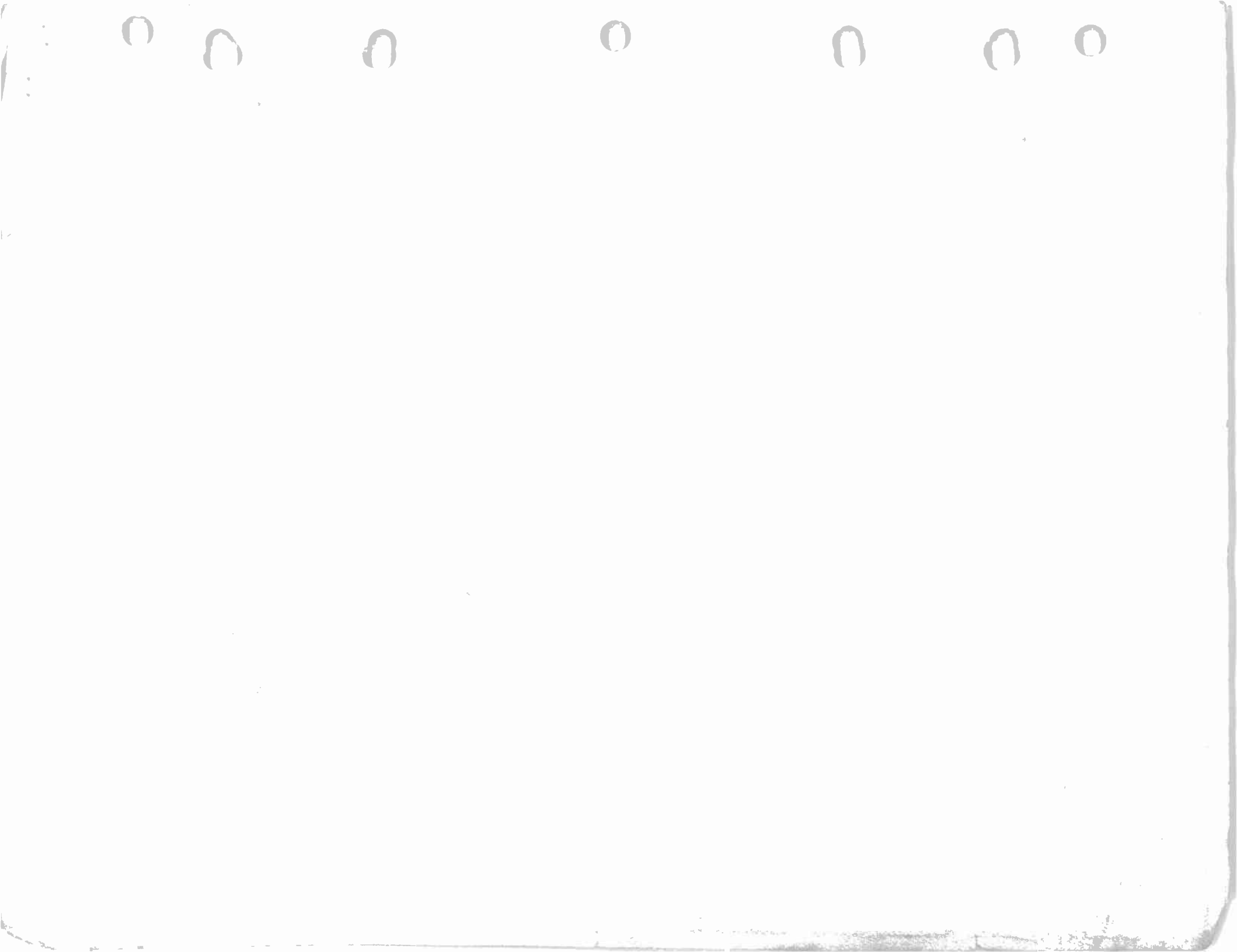
## INSTRUCTION MANUAL

01632455 - WINDER, TWS, TAPE  
FOUND IN WU + PAPER SECTION  
OF IDP BOOK



WESTERN APPARATUS PRODUCTS  
2200 East Devon Avenue  
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 **VICTOR**  
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## DESCRIPTION

The Tape Winder is powered by a 105-125 v 50 or 60 cps. motor. When the run of tape being wound becomes taut, it opens a mercury switch, cutting off motor power. When the tape becomes slack the switch closes again.

The tape is threaded around several posts whose function is to develop a suitable winding tension and thus develop a firm roll of wound tape, while pulling very gently on the perforator or transmitter which is delivering tape to the winder. Figure 1 illustrates the tape threading path. The tape retainer (14W112) may be rotated clockwise to facilitate threading and then restored to retain tape in the threaded path. One of the tape guide posts is movable in a slot, to adjust winding tension. See "Tape Tension Adjustment" Figure 1.

When the tape arm (14W111) is pushed down as far as it will go, and moved slightly to the right it will latch in a free-wheeling position. This disengages gears in the motor drive train, allowing easy manual turning of the tape reel. A handle is provided in the outer tape reel flange to spin the reel.

The tape reel is retained on its drive pulley by permanent magnets. To remove the tape reel, pull it off axially.

Tape may be removed from the reel as follows: Twist the inner flange counterclockwise, and lift off the inner flange. Then turn over the outer flange (with the tape on it) and the tape roll will drop off.

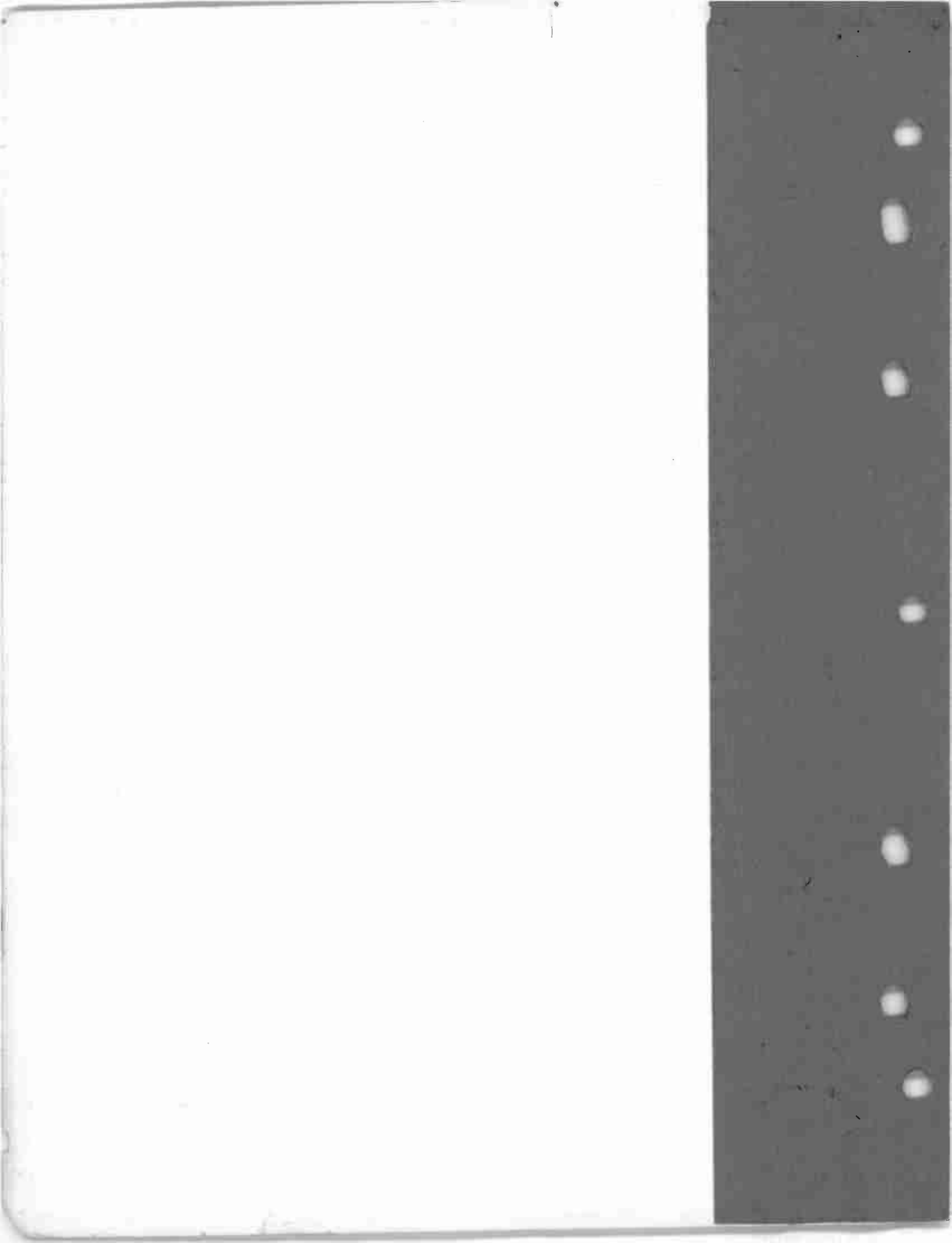
To reassemble the tape reel, enter the three pins in the larger openings of the twist lock and then turn the inner flange clockwise.

When starting to wind tape, the free end may be simply inserted between the posts of the tape reel. Alternatively, a tape roll core may be pressed over the pins prior to assembling the tape reel. The tape end can be attached to this core by pressure-sensitive tape. The latter method is sometimes preferred if the core is useful in storing rolls of tape.

The posts in the tape path are cut to fit particular tape widths. The model equipped with posts for 5 level tape is called TW-5, the model for 6 and 7 level tapes is TW-6, and the model for 8 level tape is TW-8. Posts may be replaced to convert a winder from one tape width to another.

Sets of parts are available to mount the basic tape winder in various ways. The "A" set of mounting parts will mount the TW-5 Tape Winder on the Teletype 28 Type Console. Thus, such a winder would be designated TW-5A. The "B" set of parts will mount the winder on the Teletype 19 Set (TW-5B). The "C" set of parts will mount a winder on the Teletype 14 Type Table (TW-5C) or on the Teletypesetter Reperforator Table (TW-6C). The "D" set of parts converts the unit for portable use on any suitable flat surface (TW-5D or TW-6D), etc. (see page 8 for additional Tape Winders). The "E" set of parts is used for mounting the Tape Winder on an IBM-0406 Table.

The 12 inch reel will hold more than 1,300 feet of chadless tape, or more than 2,000 feet of chad tape.



## ADJUSTMENTS

### 1. Mercury Switch Adjustment (20W107) Fig. 1

The Tape Winder motor (20W101) should start as the tape lever (14W111) moves upward. At the instant of starting the clearance between the tape lever and its upper stop should be 1/4" to 1/2". To adjust, loosen the switch bracket mounting screw (35W100) and rotate the bracket (20W102). Tighten the screw.

### 2. Clutch Lever Stud Adjustment (11W116) Fig. 1

When the tape lever (14W111) is latched in the free wheeling position (down) the motor gears should be disengaged and there should be some clearance, not more than 1/16", between the motor shaft and the motor shaft return lever (14W100). This clearance may be observed from below the machine with the motor cover removed, or by viewing through the hole in the base plate. To adjust, loosen the nut on the clutch lever stud and reposition it. Tighten the nut.

### 3. Tape Lever Spring Tension (27W100) Fig. 1

With the tape lever (14W111) against the upper stop, hook a 32 oz. spring balance in spring hole on the tape lever, and pull in line with the spring. It should require 11 to 13 ozs. to start the tape lever moving away from the stop.

### 4. Clutch Lever Spring Tension (27W101) Fig. 1

With power disconnected, push the tape lever (14W111) to its lowermost position and then raise it to rest against the upper stop. This disengages the motor gears and allows the edge of the motor shaft return lever (14W100) to bear against the motor shaft. Hook an 8 oz. spring balance in the spring hole and pull in line with clutch lever spring (27W101). It should require 1-1/2 to 3 ozs. to just start the motor shaft return lever moving. Belt must be removed.

### 5. Tape Tension Adjustment Fig. 1

One of the tape posts is mounted in a slot in the base plate. If this post is moved toward the top of the slot, increased tape tension results. Lowering the post in the slot reduces tape tension. Additional tightness can be obtained by lowering the left-hand fixed post to the hole marked "X". In general, chadless tape requires greater winding tension than fully perforated tape. Also, there are individual preferences on tightness of winding.



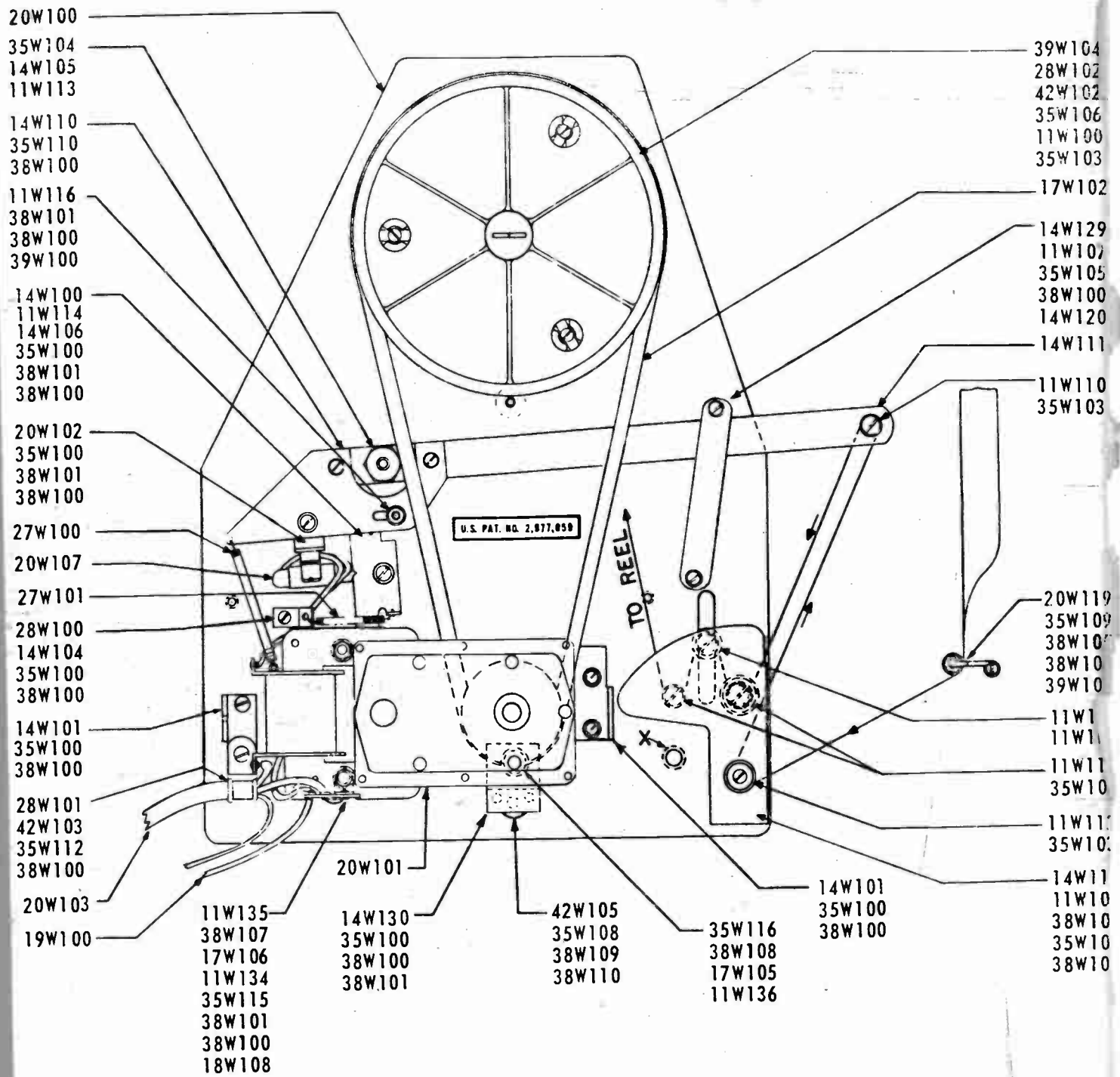
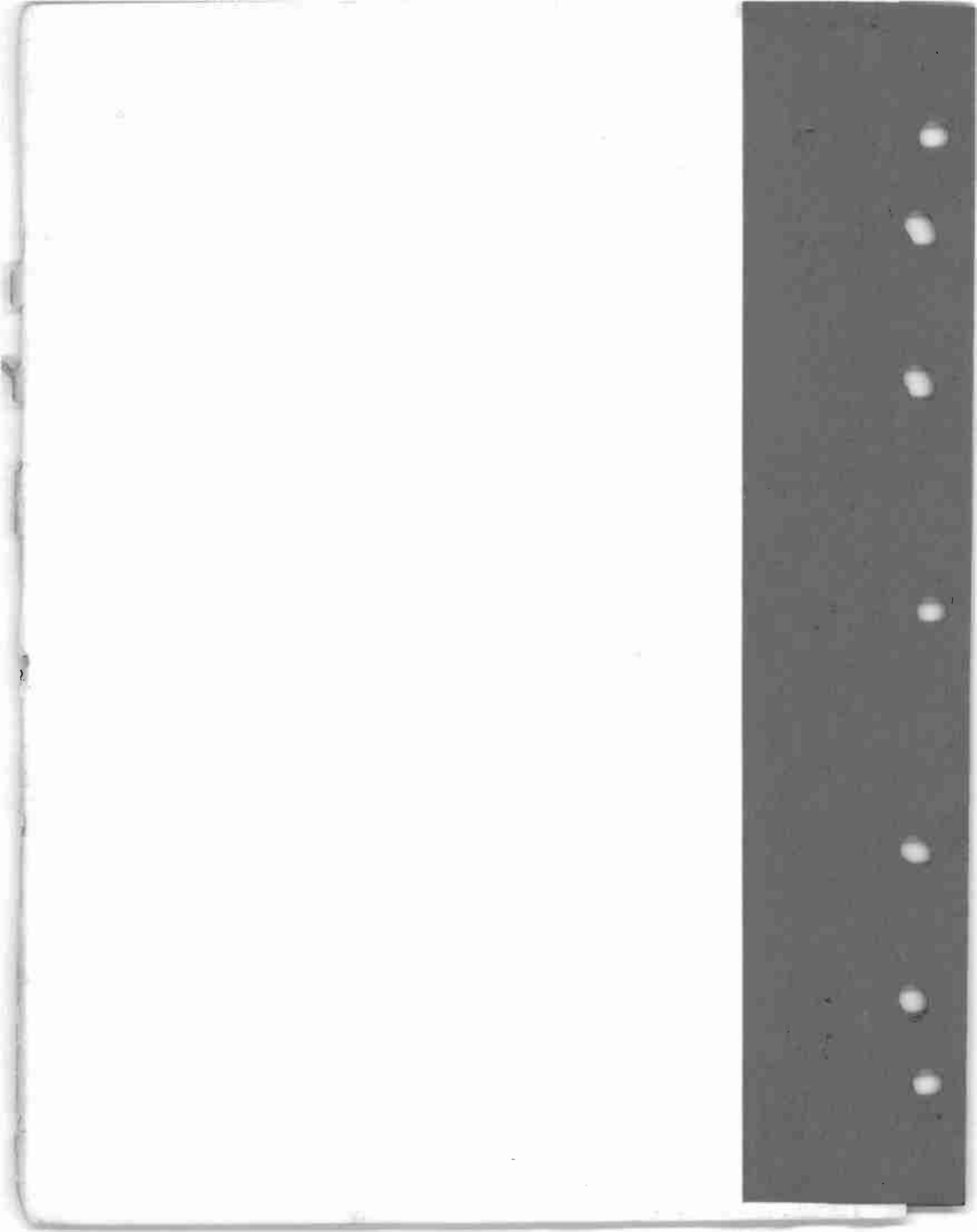


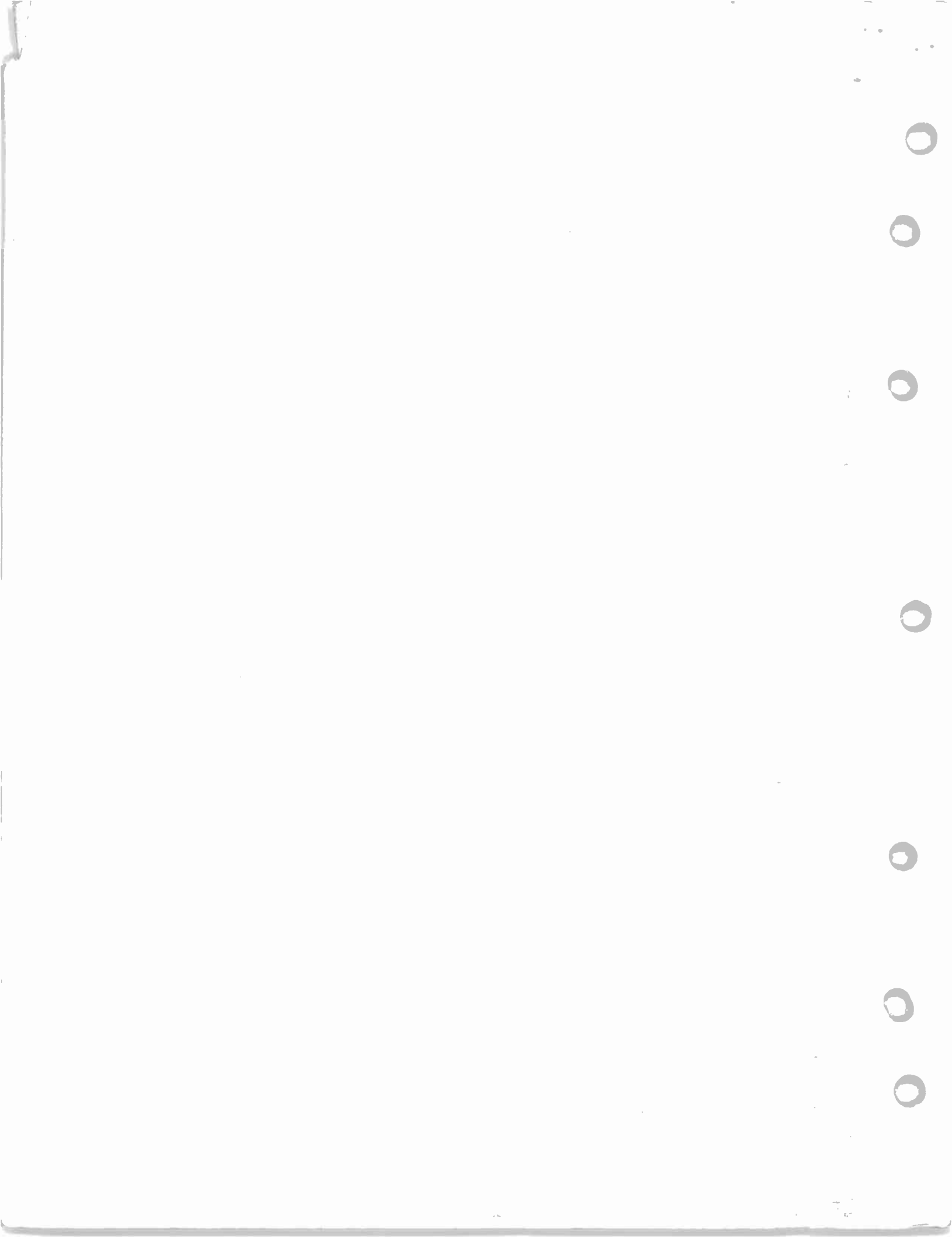
Figure I





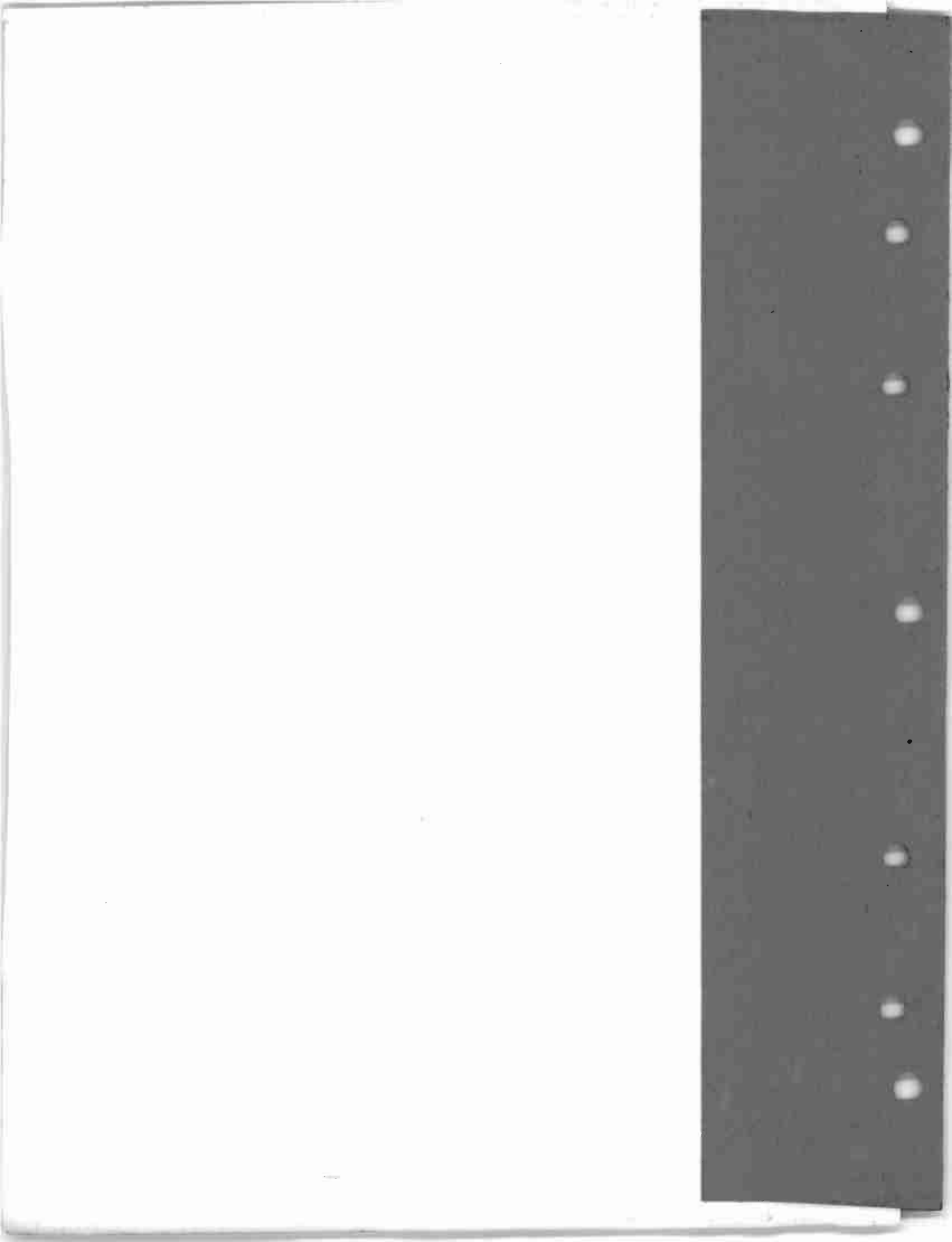
# LIST OF PARTS

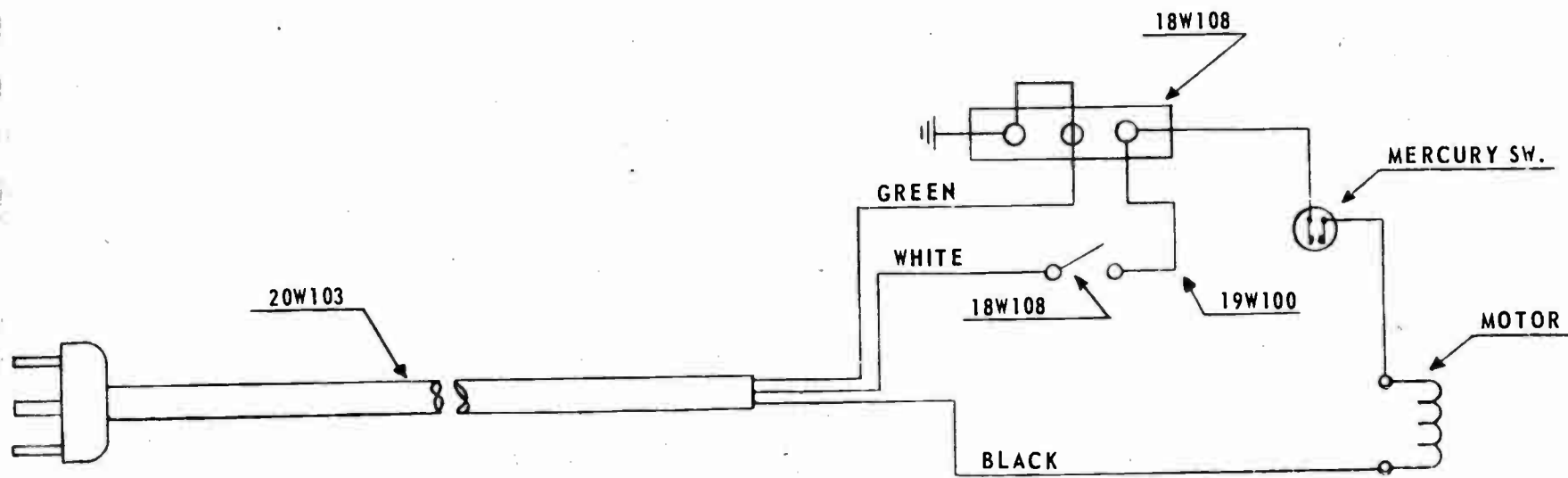
<u>PART NO.</u>	<u>NAME</u>	<u>QTY. REQ.</u>
20W100	Base (w/Sprg. Post) Assy.	1
14W101	Cover Mounting Bracket	2
35W100	Screw 6 x 32 x 1/4"	3
38W100	Split Washer, #6	3
14W100	Motor Shaft Return Lever	1
11W114	Clutch Lever Bearing	1
14W106	Clutch Lever Spacer	1
35W100	Screw 6 x 32 x 1/4"	1
38W101	Flat Washer, #6	1
38W100	Split Washer, #6	1
20W101	Motor w/Pulley Assy.	1
35W115	Mtr. Mtg. Screw 6 x 32 x 1-13/16"	2
38W107	Flat Washer	2
17W106	Grommet	2
11W134	Grommet Spacer	2
11W135	Mtr. Mtg. Spacer	1
38W101	Flat Washer	1
18W108	Terminal Strip	1
38W100	Lock Washer	1
39W100	Nut 6 x 32 x 1/4" Hex	1
14W130	Mtr. Support Brkt.	2
35W100	Screw 6 x 32 x 1/4"	2
38W100	Lock Washer	1
17W105	Grommet	1
11W136	Grommet Spacer	1
35W116	Screw 8 x 32 x 7/16"	1
38W108	Flat Washer, #8 Med.	1
19W100	Insulated Hookup Wire	1
20W103	Power Cord	1
28W101	Cable Clamp 5/16"	1
42W103	Washer, #6 "D"	1
35W112	Screw 6 x 32 x 3/8"	1
38W100	Lock Washer #6	1
18W107	SPST Switch	1
42W118	Switch Plate "ON-OFF"	1
22W100	Cover	4
41W100	Rivet	1
42W100	Name Plate	3
17W101	Channel	2
35W110	Screw 6 x 32 x 3/16"	2
38W100	Split Washer, #6	2



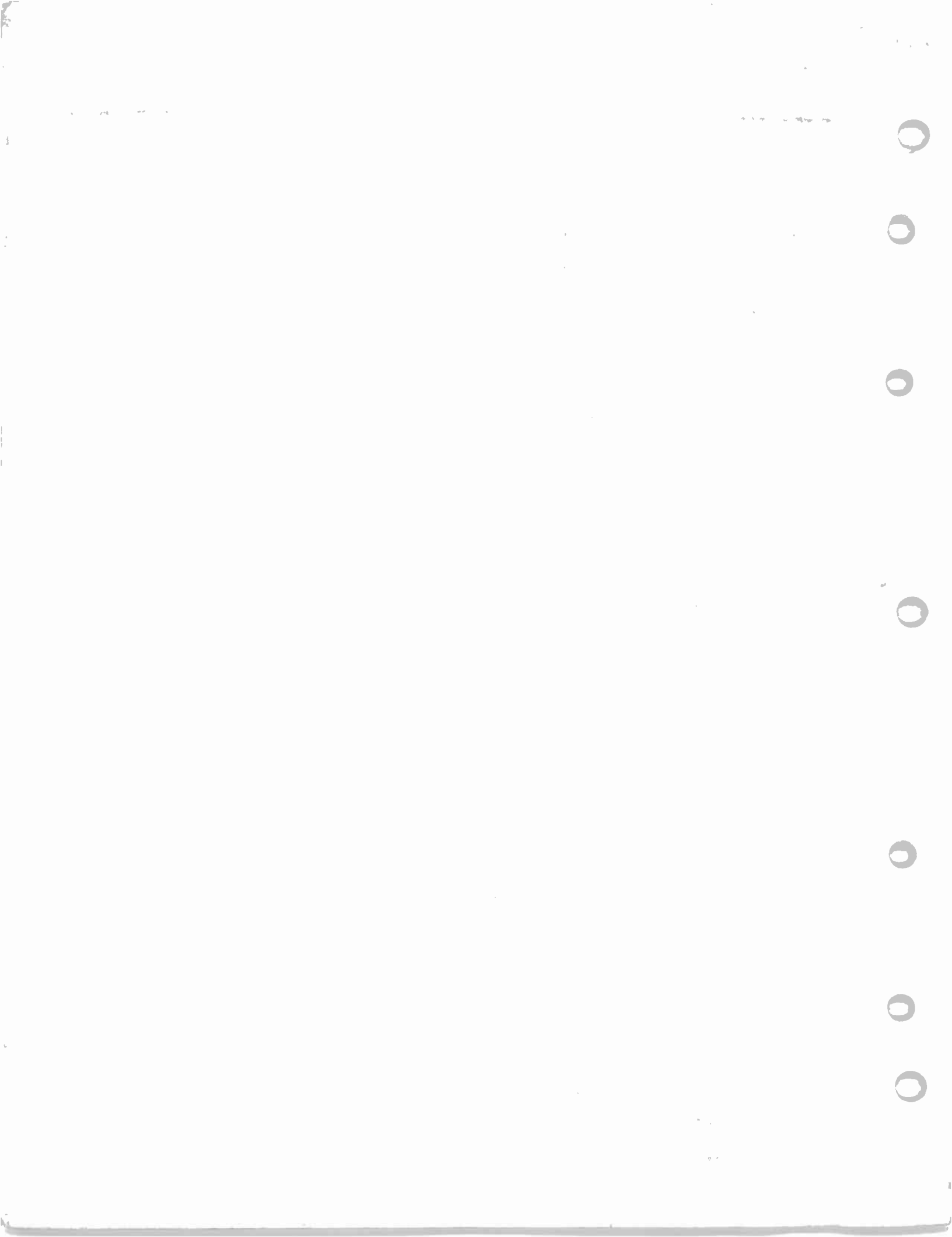
LIST OF PARTS . . . continued

PART NO.	NAME	QTY. REQ.
20W107	Mercury Switch	1
28W100	Cable Clamp (underneath)	1
14W104	Spring Tab	1
35W100	Screw 6 x 32 1/4"	1
38W100	Split Washer, #6	1
27W101	Clutch Lever Spring	1
14W111	Tape Levér	1
14W110	Switch Lever	1
35W110	Screw 6 x 32 x 3/16"	2
38W100	Split Washer, #6	2
11W116	Clutch Lever Stud	1
38W101	Flat Washer, #6	1
38W100	Split Washer, #6	1
39W100	Nut 6 x 32 x 1/4" Hex	1
20W102	Bracket w/Switch Mount Clip Assy.	1
35W100	Screw 6 x 32 x 1/4"	1
38W101	Flat Washer, #6	1
38W100	Split Washer, #6	1
14W105	Tape Lever Spacer	1
11W113	Tape Lever Bushing	1
35W104	Screw 10 x 32 x 1/2"	1
14W129	Tape Lever Stop	1
11W107	Tape Lever Stop Spacer	2
35W105	Screw 6 x 32 x 7/16"	2
38W100	Split Washer, #6	2
14W120	Guard Plate	1
27W100	Tape Lever Spring	1
28W102	Pulley	1
42W102	Magnet	3
35W106	Screw (brass) 4 x 40 x 3/8"	3
39W104	Nut 4-40	3
11W100	Reel Stud	1
35W113	Screw, Self Locking	1
26W100	Nyliner Bearing	2
17W102	Pulley Belt	1
11W110	Tape Guide Post (see note)	1
35W103	Screw 10 x 32 x 3/8" Flat Head	3
11W111	Tape Guide Post (see note)	3
11W101	Tape Adj. Stud	1
35W103	Screw 10 x 32 x 3/4" Flat Head	1
11W112	Tape Retainer Post	1
35W103	Screw 10 x 32 x 3/8"	1





WIRING DIAGRAM **Figure II**



LIST OF PARTS . . . continued

<u>PART NO.</u>	<u>NAME</u>	<u>QTY. REQ.</u>
14W112	Tape Retainer	1
11W104	Tape Ret. Bushing	1
38W102	Spring Washer, Special	1
35W102	Screw 6 x 32 x 1/2"	1
38W100	Split Washer, #6	1
42W105	Rubber Foot	1
35W108	Screw 4 x 40 x 1/4"	1
38W110	Lock Washer, #4	2
38W109	Flat Washer, #4	2
20W110	Tape Reel Rear Flange Assy.	1
11W103	Tape Reel Spacer Stud	3
35W100	Screw 6 x 32 x 1/4"	3
38W100	Split Washer, #6	3
20W109	Front Reel Flange Assy.	1
11W102	Tape Reel Locking Stud	3
35W100	Screw 6 x 32 x 1/4"	3
38W100	Split Washer, #6	3

NOTE: Posts shown for 5 level tape; when ordering specify whether for 5, 6, 7, or 8 level tape.

TAPE REEL ASSEMBLIES

With Small Diameter Cores (2-1/32")

- 20W113 For 5 level Tape (Used on TW-5 Tape Winder)
- 20W118 For 6 & 7 Level Tape (Used on TW-6 Tape Winder)
- 20W120 For 8 Level Tape (Used on TW-8 Tape Winder)

With Large Diameter Cores (3-5/16")

- 20W108 For 5 Level Tape (Used on TW-53 Tape Winder)
- 20W122 For 6 & 7 Level Tape (Used on TW-63 Tape Winder)
- 20W123 For 8 Level Tape (Used on TW-83 Tape Winder)

TABLE & CONSOLE MOUNTING PARTS

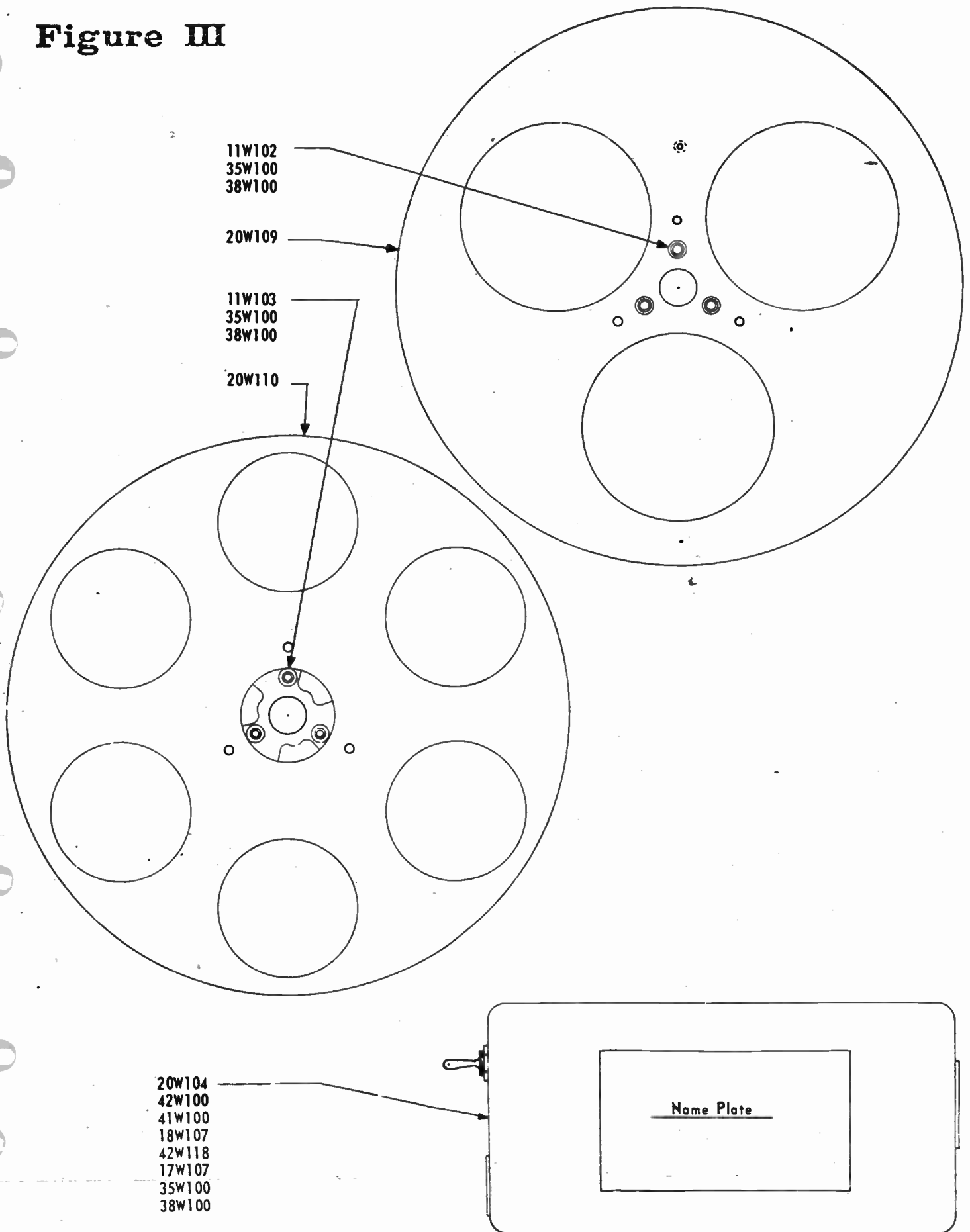
- 50W102 Set of Parts "A" for Mounting Tape Winder on Teletype 28 Type Consoles.
- 50W101 Set of Parts "B" for Mounting Tape Winder on Teletype 19 Type Table.
- 50W100 Set of Parts "C" for Mounting Tape Winder on Teletypesetter Reperforator Table or Teletype 14 Type Table.
- 50W103 Set of Parts "D" for Portable Use.
- 50W104 Set of Parts "E" for Mounting Tape Winder on IBM-0406 Table.

11 81/2 1





**Figure III**





## LUBRICATION

### A. SILICONE LUBRICANT

The following should be lubricated with Dow-Corning Silicone Oil #200 Viscosity Grade 350:

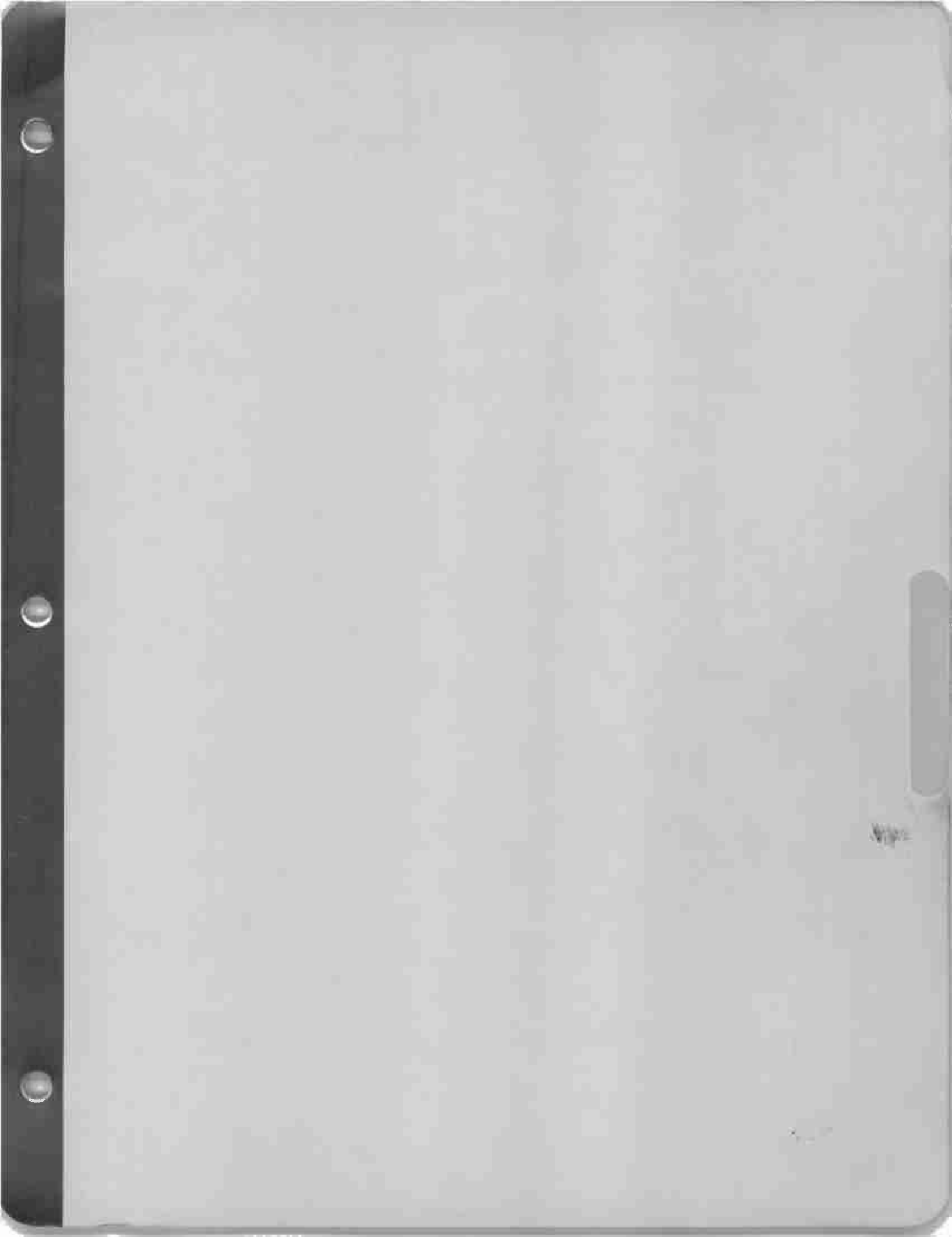
1. Two nylon bearings inside bore of large pulley.

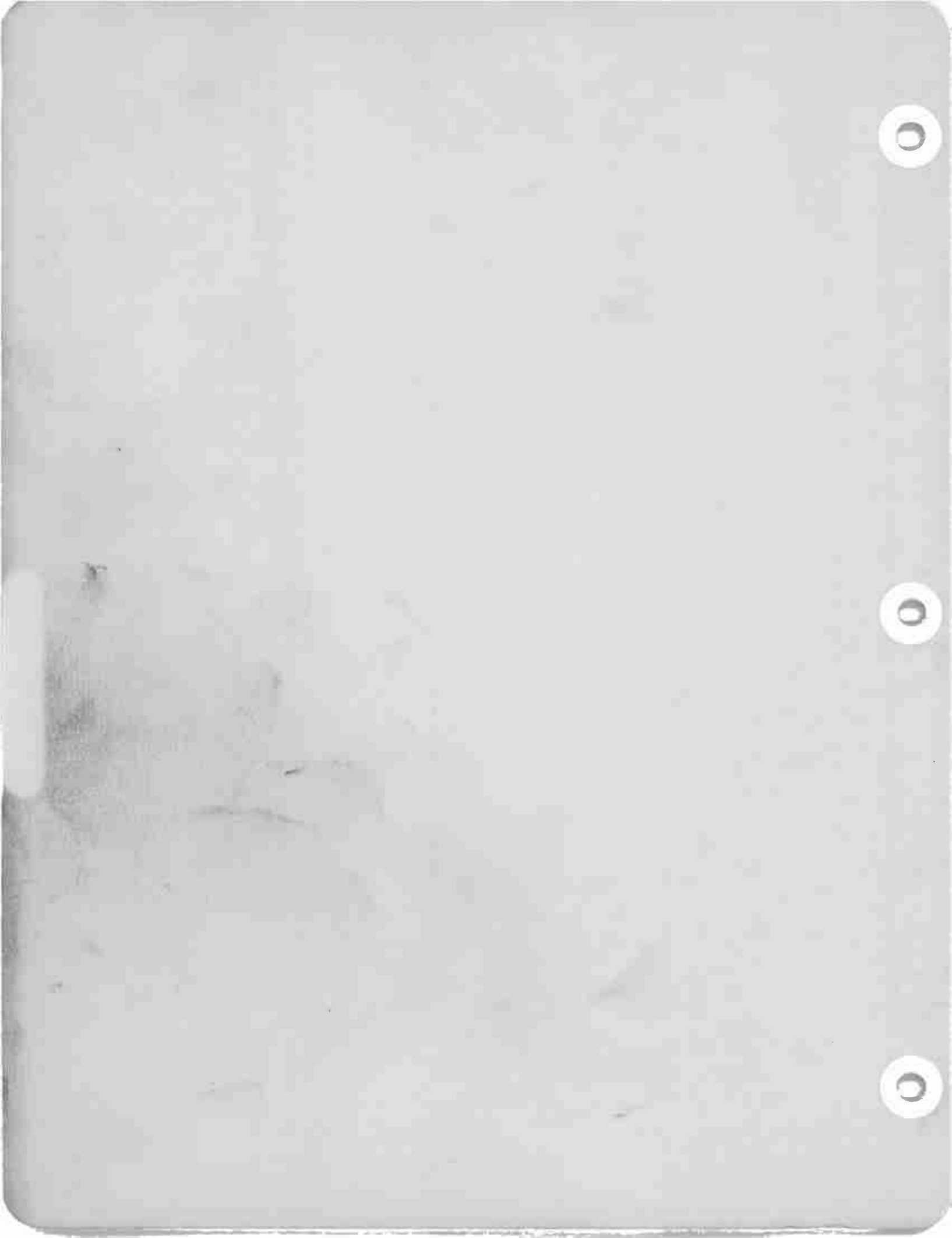
### B. OIL LUBRICANT

The following should be lubricated with Teletype Corporation #88970 Oil, or equivalent:

1. Tape lever pivot.
2. Clutch lever pivot.
3. Motor bearings.
4. Tape lever spring.
5. Clutch lever spring.

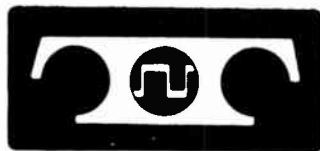






BULLETIN 1210B

32 PAGE PRINTER SET  
(ASR, KSR, AND RO)  
PARTS



**TELETYPE<sup>®</sup>**  
**CORPORATION**

5555 TOUHY AVENUE, SKOKIE, ILLINOIS





TABLE OF CONTENTS

SECTION	TITLE	ISSUE	DATE
574-171-800TC	32 Keyboard (UK)	*5	May 1974
574-172-800TC	32 Typing Unit (UP)	*5	May 1974
574-173-800TC	32 Call Control Unit (UCC)	*5	May 1974
574-174-800TC	32 Tape Reader (UX)	*4	May 1974
574-175-800TC	32 Tape Punch (UPE)	*4	May 1974
574-176-800TC	32 Cover and Table	*4	May 1974

\*Indicates revised sections



32 KEYBOARD (JK)

PARTS

FIGURE	CONTENTS	PAGE
1	Keyboard Basket and Contact Block	2
2	Keyboard Covers	3
3	Codebar Mechanism	4
4	Keytops	5
5	Keylevers	5
6	186752 Modification Kit to Provide Locking for Keyboard	6
	Numerical Index	7

NOTE: Refer to Section 574-020-800  
for Additional 32 Keytops Descriptions.

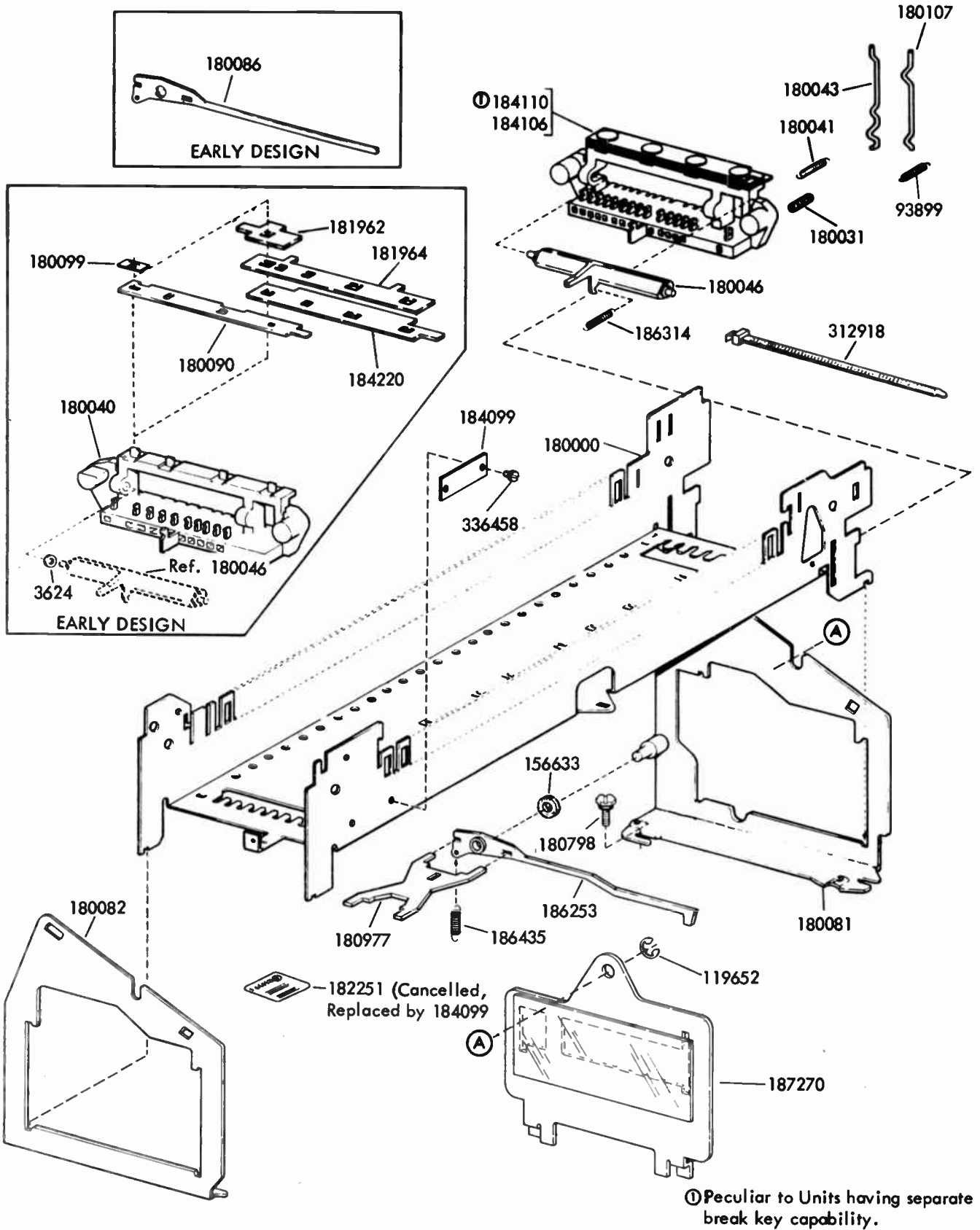


FIGURE 1. KEYBOARD BASKET AND CONTACT BLOCK

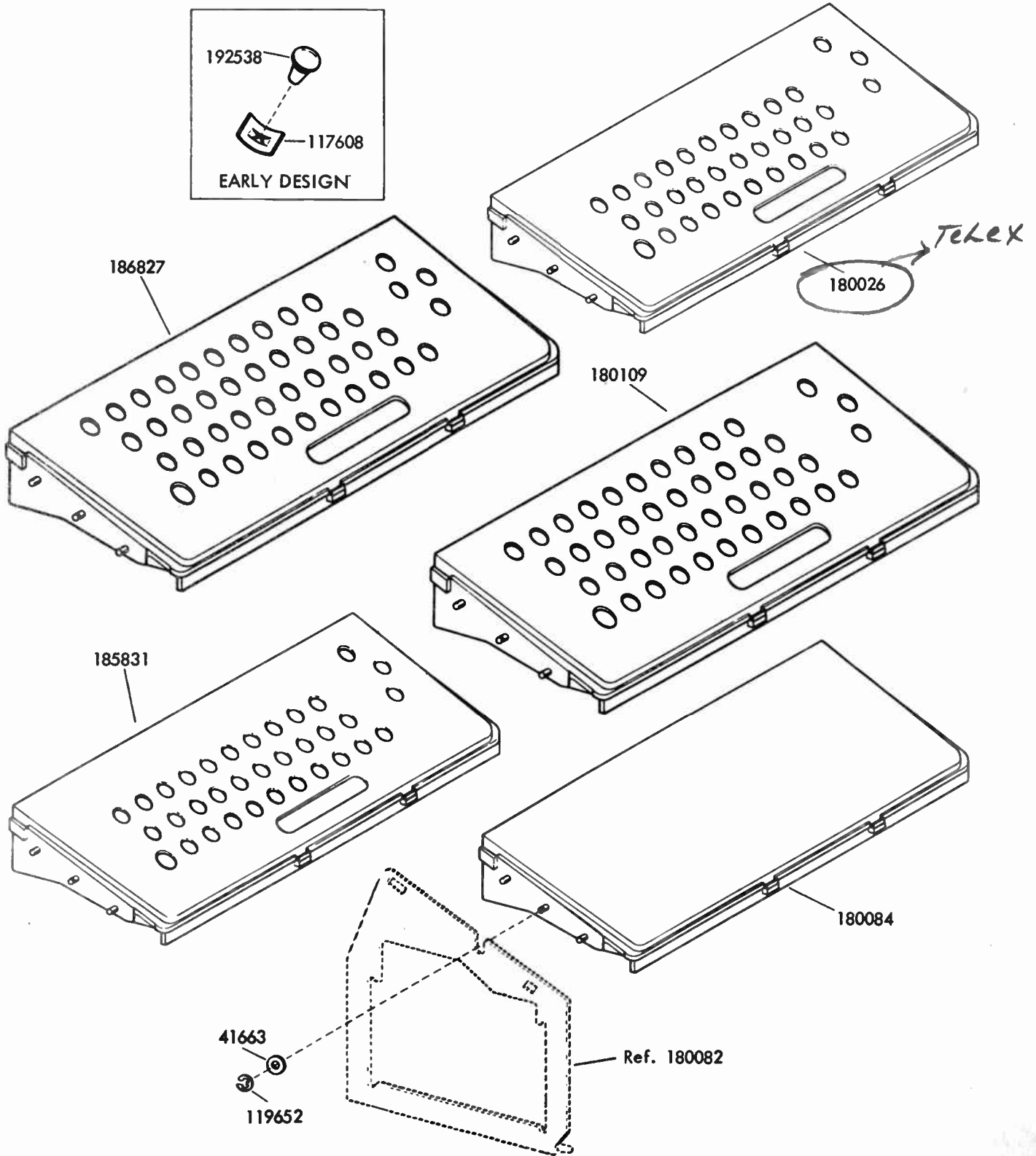


FIGURE 2. KEYBOARD COVERS

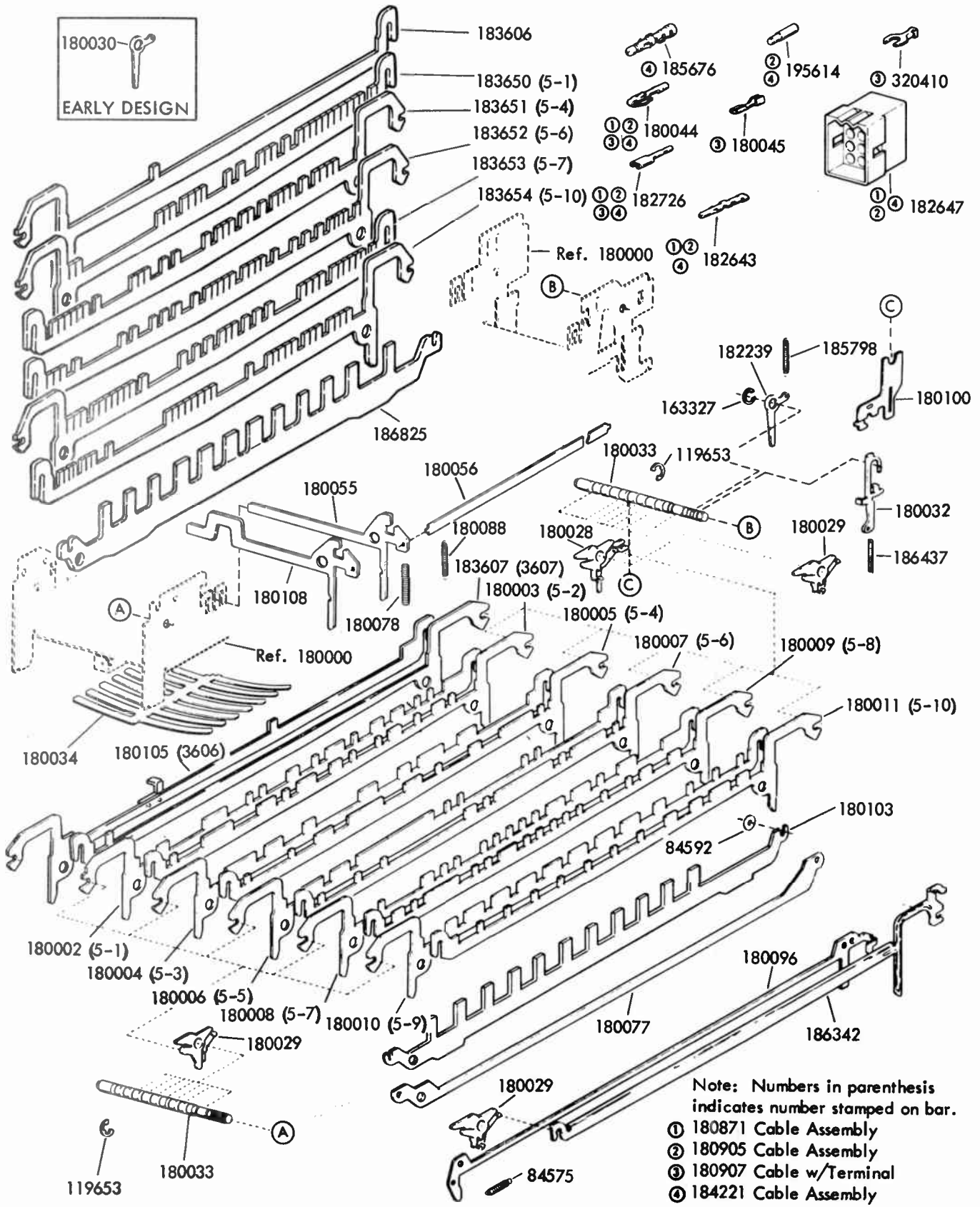
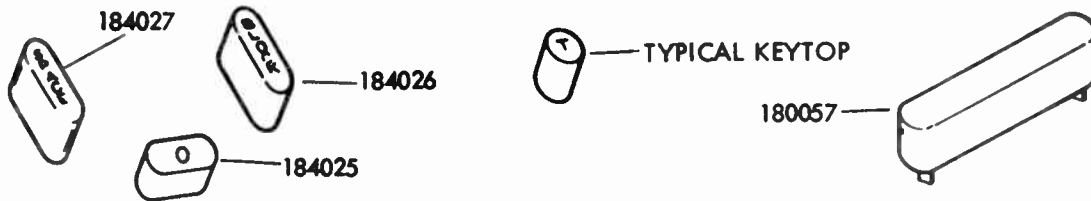


FIGURE 3. CODEBAR MECHANISM



Keytop Description			Keytop Description			Keytop Description			Keytop Description			Keytop Description		
Lower Case	Upper Case	Part Number	Lower Case	Upper Case	Part Number	Lower Case	Upper Case	Part Number	Lower Case	Upper Case	Part Number	Lower Case	Upper Case	Part Number
A	-	180223	F	→	185232	L	3/4	180245	T		180261	2		180265
A	↑	185230	G	&L	180227	L	EA	180450	U		180177	3		180266
B	?	180236	G	&	180242	L	↖	185237	U	7	180219	4		180267
B	5/8	180249	G		180274	M	.	180238	V	;L	180235	5		180268
B	⊕	185240	G	⊕	180387	N	,	180237	V	3/8	180248	6		180269
C	:	180234	G	↘	185233	N		180250	V	=	180276	7		180270
C	WRU	180247	H		180186	N	⊙	185241	V	;	180342	8		180271
C	○	185238	H	#L	180228	O		180169	V	NT	180452	9		180272
D	+	180225	H	£	180338	O	9	180221	V	⊙	185239	0		180169
D	\$	180240	H	#	180448	P	○	180222	W		180172		(NO SYMBOL)	180299
D	WRU	180277	H	↓	185234	P		180263	W	2	180214		RETURN	180202
D		180278	I	8	180220	P	∅	180389	X	/	180233		LINE FEED	180203
D	↗	185231	I		180262	Q		180171	Y		180176		HERE IS	180206
E	3	180215	J	BELL	180229	Q	1	180213	Y	6	180218		BREAK	180207
E		180259	J	,	180243	R	4	180216	Z	±	180232		REPT	180208
F	\$L	180226	J	↗	185235	R		180260	Z	"	180246		FIGS	180210
F	1/4	180241	K	(	180230	S	,	180224	Z	+	180275		LTRS	180211
F		180273	K	1/2	180244	S	BELL	180239	Z	PR	180451		TAPE OUT	180445
F	!	180343	K	BD	180449	S	RM	180446	BLANK	-	185229		LOC LF	151249
F	%	180386	K	←	185236	T	5	180217	I		180264		LOC CR	151250
F	\$	180447	L	)	180231									

FIGURE 4. KEYTOPS

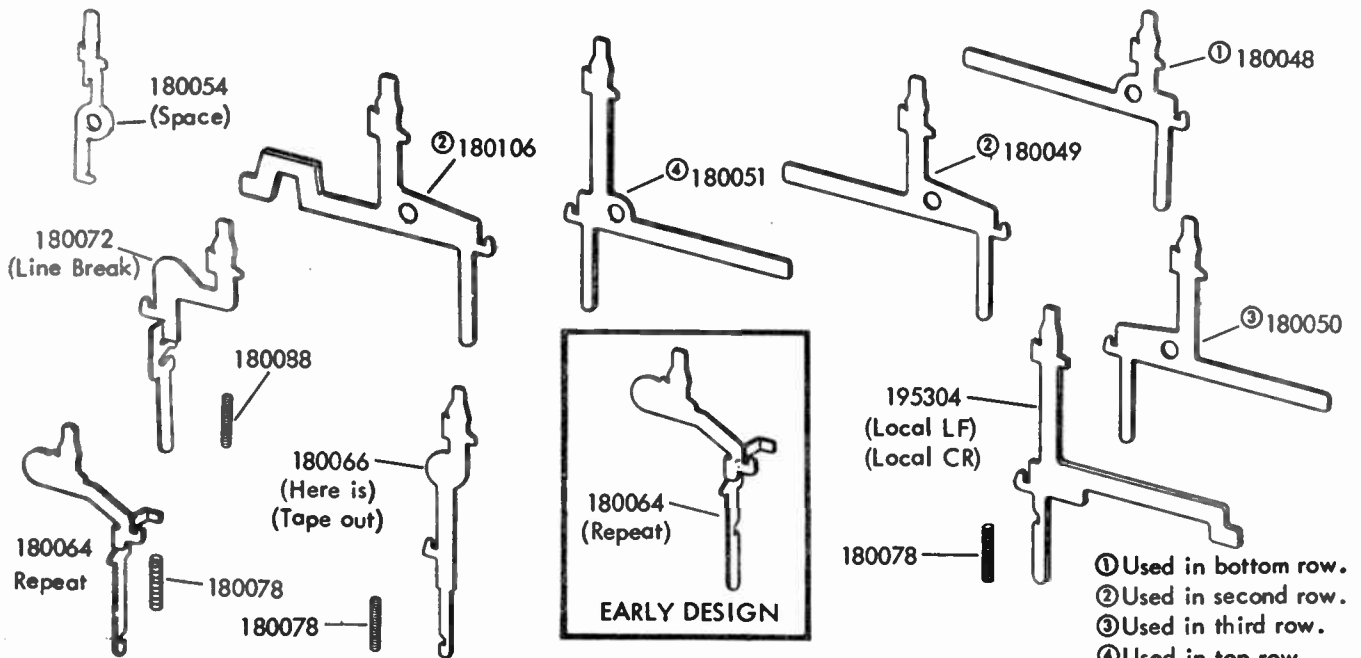


FIGURE 5. KEYLEVERS

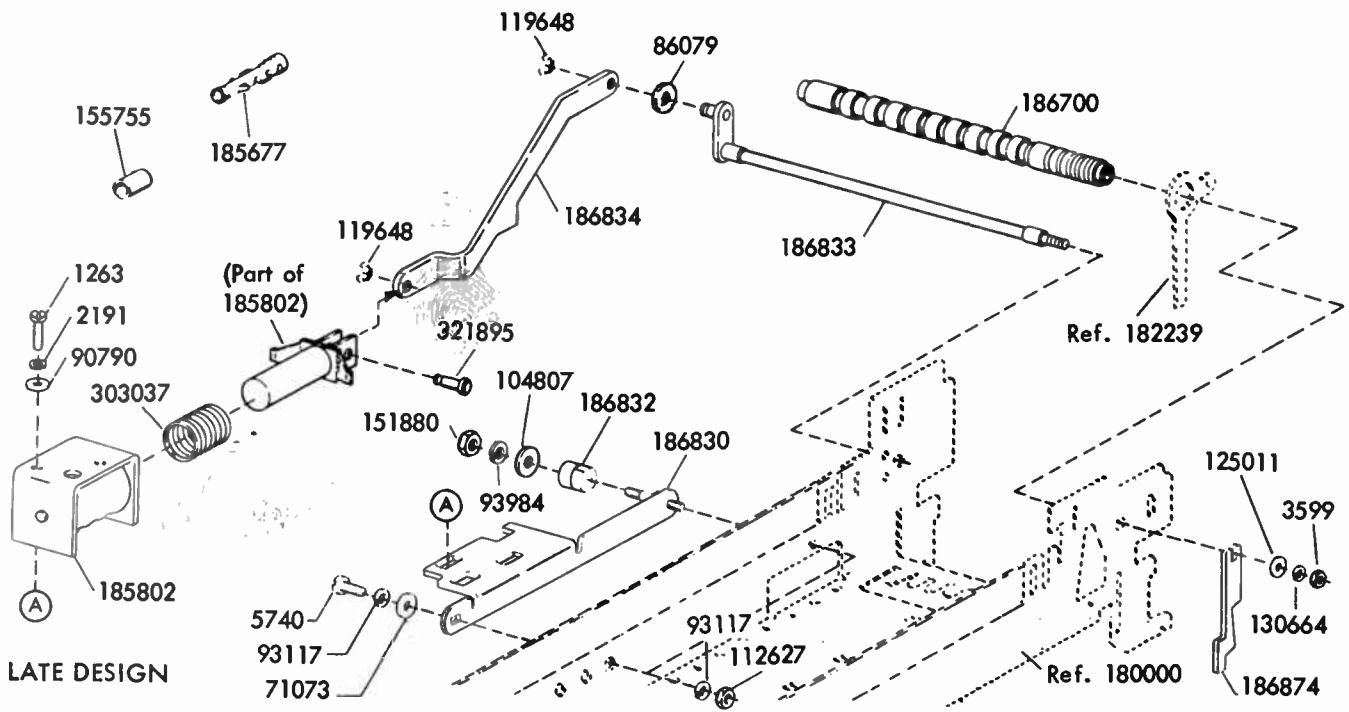
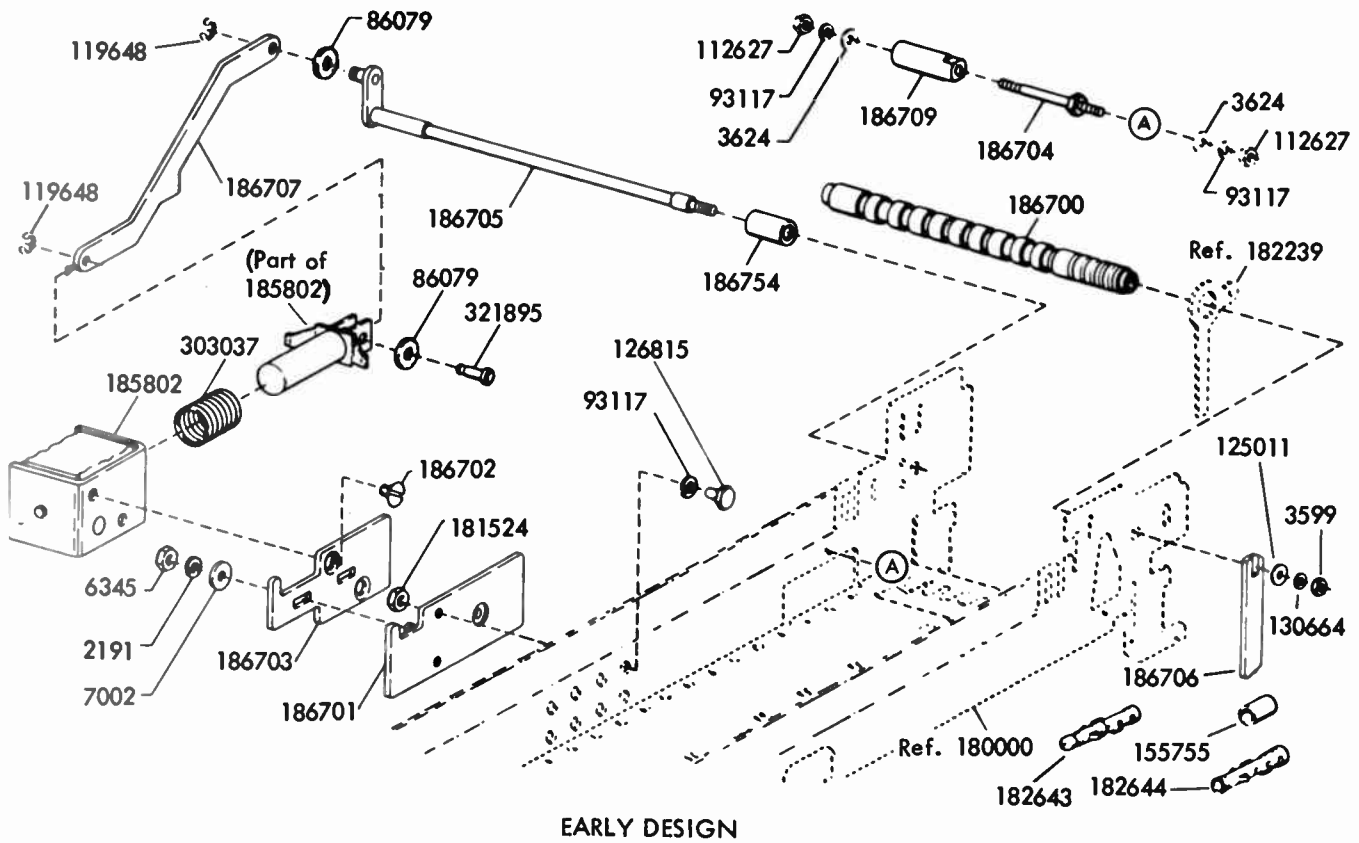


FIGURE 6. 186752 MODIFICATION KIT TO PROVIDE LOCKING FOR KEYBOARD



## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1263	Screw, 6-32 x 1/4 Fil 6	180033	Shaft 4	180211	Keypad 5
2191	Lockwasher 6	180034	Spring, Flat 4	180213	
3599	Nut, 4-40 Hex 6	180040	Block, Contact 2	thru	
3624	Washer, Flat 2,6	180041	Spring 2	180250	Keypad 5
5740	Screw, 2-56 x 1/4 Fil 6	180043	Wire, Contact 2	180259	
6345	Nut, 6-32 Hex 6	180044	Terminal, Tab Type 4	thru	
7002	Washer, Flat 6	180045	Terminal, Tab Type 4	180278	Keypad 5
41663	Washer, Flat 3	180046	Bail, Contact Reset 2	180299	Keypad 5
71073	Washer, Flat 6	180048	Keylever 5	180338	Keypad 5
84575	Spring 4	180049	Keylever 5	180342	Keypad 5
84592	Shim, .004" Thk 4	180050	Keylever 5	180343	Keypad 5
86079	Washer, Felt 6	180051	Keylever 5	180386	Keypad 5
90790	Washer, Flat 6	180054	Keylever, Spacebar 5	180387	Keypad 5
93117	Lockwasher 6	180055	Keylever, Space 4	180389	Keypad 5
93899	Spring 2	180056	Link, Space 4	180445	
93984	Lockwasher 6	180057	Spacebar 5	thru	
104807	Washer, Flat 6	180064	Keylever, Repeat 5	180452	Keypad 5
112627	Nut, 2-56 Hex 6	180066	Keylever 5	180798	Screw, 8-32 Self-Tapping 2
117608	Nut, Speed 3	180072	Keylever, Fine Break 5	180871	Cable Assembly 4
119648	Ring, Retaining 6	180077	Link 4	180905	Cable Assembly 4
119652	Ring, Retaining 2,3	180078	Spring, Compression, 4,5	180907	Cable Assembly 4
119653	Ring, Retaining 4	180081	Bracket, Right Keyboard 2	180977	Plate w/Stud 2
125011	Washer, Flat 6	180082	Bracket, Left Keyboard 2, 3	181524	Nut, 2-56 Shoulder 6
126815	Screw, 2-56 x 15/64 Hex 6	180084	Cover, Keyboard 3	181962	Terminal 2
130664	Lockwasher 6	180086	Lever 2	181964	Insulator 2
151249	Keypad 5	180088	Spring, Compression 4,5	182239	Latchlever 4,6
151250	Keypad 5	180090	Terminal, Common 2	182251	Plate, Identification 2
151880	Nut, 4-40 Hex 6	180096	Link 4	182643	Terminal, Plug Type 4,6
155755	Sleeve, 11/64 x 5/8" Lg Insulating 6	180099	Fastener 2	182644	Terminal, Receptacle Type 6
156633	Washer, Felt 2	180100	Guide 4	182647	Connector, 12 Pt Plug Type 4
163327	Ring, Retaining 4	180103	Link, Blocking 4	182726	Terminal, Receptacle Type 4
180000	Frame Keyboard 2,4,6	180105	Codebar 4	183606	Codebar 4
180002	Codebar, No. 1 Rear 4	180106	Keylever 5	183607	Codebar 4
180003	Codebar, No. 1 Front 4	180107	Detent 2	183650	Codebar 4
180004	Codebar, No. 2 Rear 4	180108	Keylever, Space 4	183651	Codebar 4
180005	Codebar, No. 2 Front 4	180109	Cover, Keyboard 3	183652	Codebar 4
180006	Codebar, No. 3 Rear 4	180169	Keypad 5	183653	Codebar 4
180007	Codebar, No. 3 Front 4	180171	Keypad 5	183654	Codebar 4
180008	Codebar, No. 4 Rear 4	180172	Keypad 5	184025	Keypad 5
180010	Codebar, No. 4 Front 4	180176	Keypad 5	184026	Keypad 5
189910	Codebar, No. 5 Rear 4	180177	Keypad 5	184027	Keypad 5
180011	Codebar, No. 5 Front 4	180186	Keypad 5	184099	Plate 2
180026	Cover, Keyboard 3	180202	Keypad 5	184106	Block Assembly, Right Contact 2
180028	Lever 4	180203	Keypad 5	184110	Block Assembly, Right Contact 2
180029	Lever 4	180206	Keypad 5		
180030	Lever, Patch 4	180207	Keypad 5		
180031	Spring, Compression 2	180208	Keypad 5		
180032	Lever, Non-Repeat 4	180210	Keypad 5		

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
184220	Terminal 2	186435	Spring 2	186827	Cover, Keyboard 3
184221	Cable Assembly 4	186437	Spring 4	186830	Bracket 6
185229		186700	Shaft 6	186832	Bushing, Eccentric 6
thru		186701	Plate 6	186833	Shaft 6
185241	Keytop 5	186702	Screw, 6-32 Spl 6	186834	Lever 6
185676	Terminal, Plug Type 4	186703	Plate, Top Mounting 6	186874	Cam, Trip 6
185677	Terminal, Receptacle Type 6	186704	Stud 6	187270	Cover, Keyboard Contact 2
185798	Spring 4	186705	Shaft 6	192538	Plug, Button 3
185802	Solenoid 6	186706	Cam, Trip 6	195304	Keylever 5
185831	Cover, Keyboard 3	186707	Lever 6	195614	Pin, Key 4
186253	Lever w/Hub 2	186709	Bushing, Eccentric 6	303037	Spring, Compression 6
186314	Spring 2	186752	Modification Kit 1,6	312918	Strap 2
186342	Codebar, Universal 4	186754	Bushing 6	320410	Terminal, Spade Type 4
		186825	Link, Blocking 4	321895	Post 6
				336458	Rivet 2

32 TYPING UNIT (UP)

PARTS

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Platen Mechanism — Friction Feed	2	22	Clutch Trip Mechanism	22
2	Paper Handling Mechanism — Friction Feed	3	23	Answer-Back Drum Mechanism	23
3	Platen Mechanism — Sprocket Feed	4	24	Answer-Back Trip Magnet Mechanism	23
4	Platen Mechanism — Sprocket Feed (Continued)	5	25	Line Feed Function Lever Mechanism	24
5	Ribbon Feed Mechanism	6	26	Function Levers	25
6	Carriage Upper Plate Mechanism	7	27	185971 Modification Kit to Provide Printer with an End-of-Line Bell to Ring on Approximately the 62nd Character	26
7	Carriage Lower Plate Mechanism	8			
8	Carriage Power Bail Mechanism	9			
9	Carriage Drive Bail Mechanism	10	28	185791 Modification Kit to Provide Controlled Single or Double Line Feed Feature on Friction Feed Printer	26
10	Carriage Mechanism for Two Color Printing	11			
11	Main Shaft Mechanism — Friction Feed	12	29	Typewheel Chart	27
12	Main Shaft Mechanism — Sprocket Feed	13	30	Form-Out Mechanism — Sprocket Feed	28
13	Clutch Trip Lever Mechanism	14	31	Later Design Form-Out Mechanism — Sprocket Feed	29
14	Codebar Basket Mechanism	15	32	Motor Contact — Sprocket Feed	29
15	Function Box Mechanism	16	33	Base	30
16	Function Shaft Mechanism	17	34	Sub Bases	31
17	Selector Frame Mechanism	18	35	Motors and Electrical Components	32
18	Clutch and Camsleeve Mechanism	19	36	Cable Components	33
19	Distributor Clutch Mechanism	20		Numerical Index	34
20	Trip Shaft Mechanism	21			
21	182964 Drive Arm Assembly	22			

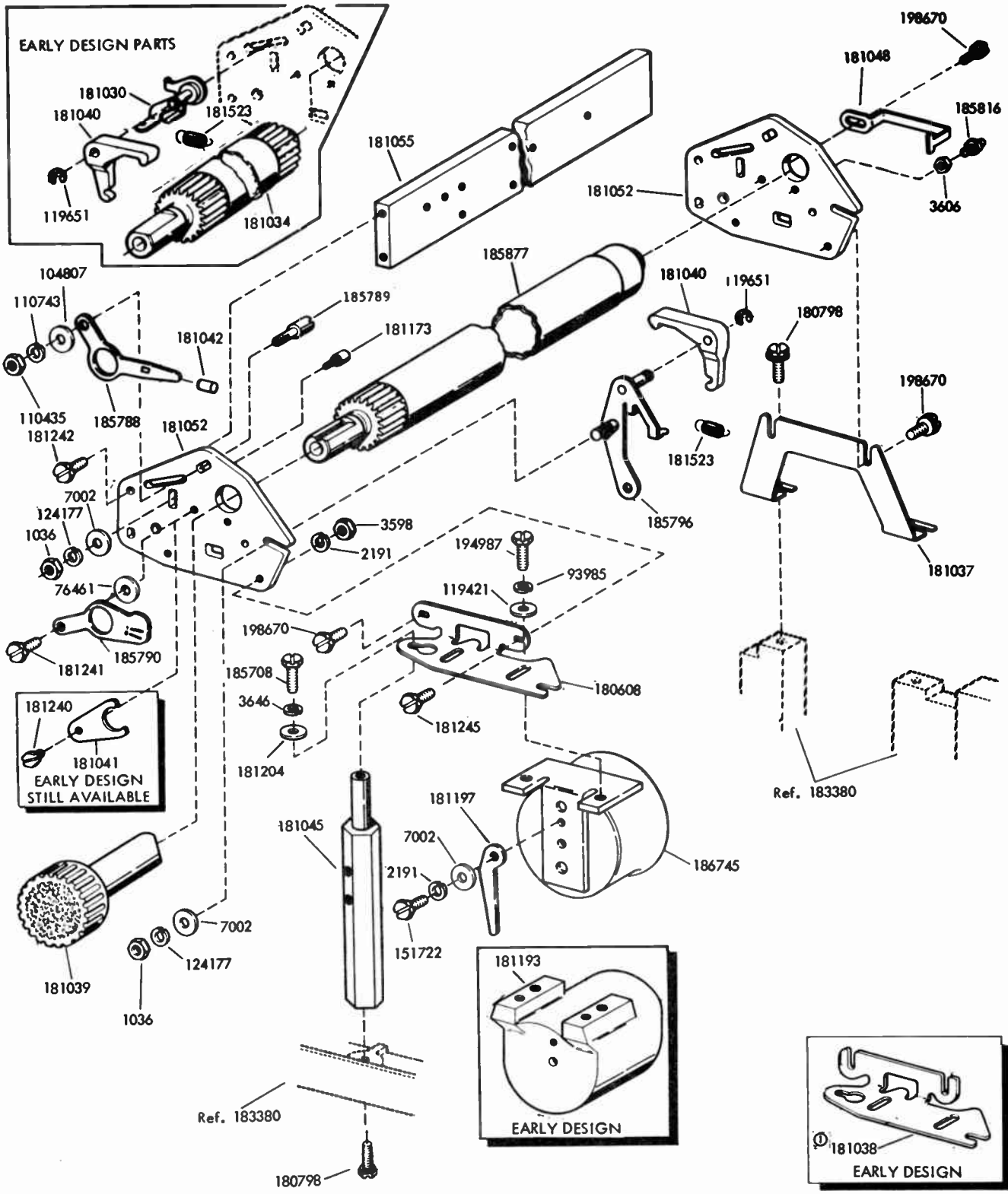


FIGURE 1. PLATEN MECHANISM - FRICTION FEED

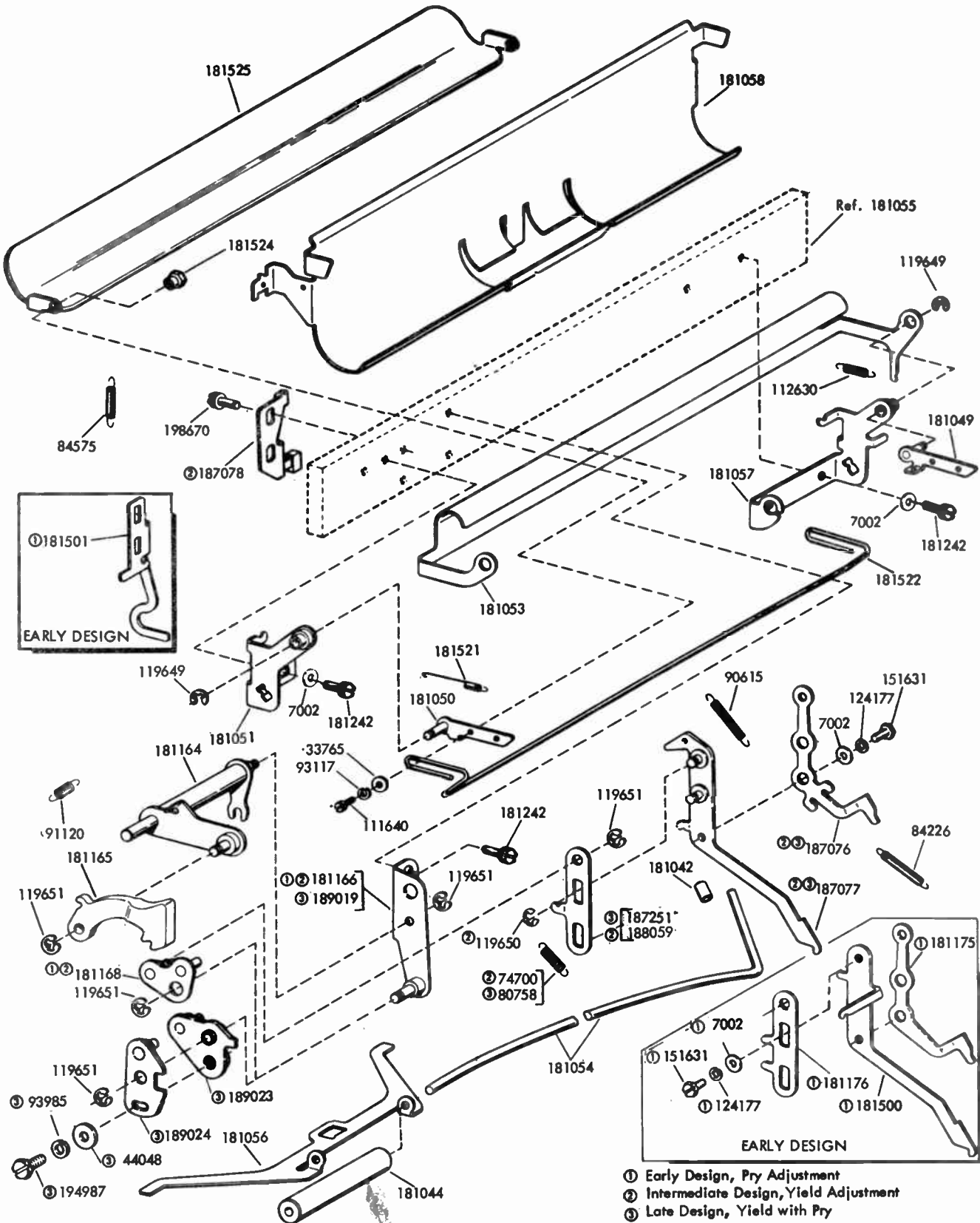


FIGURE 2. PAPER HANDLING MECHANISM - FRICTION FEED

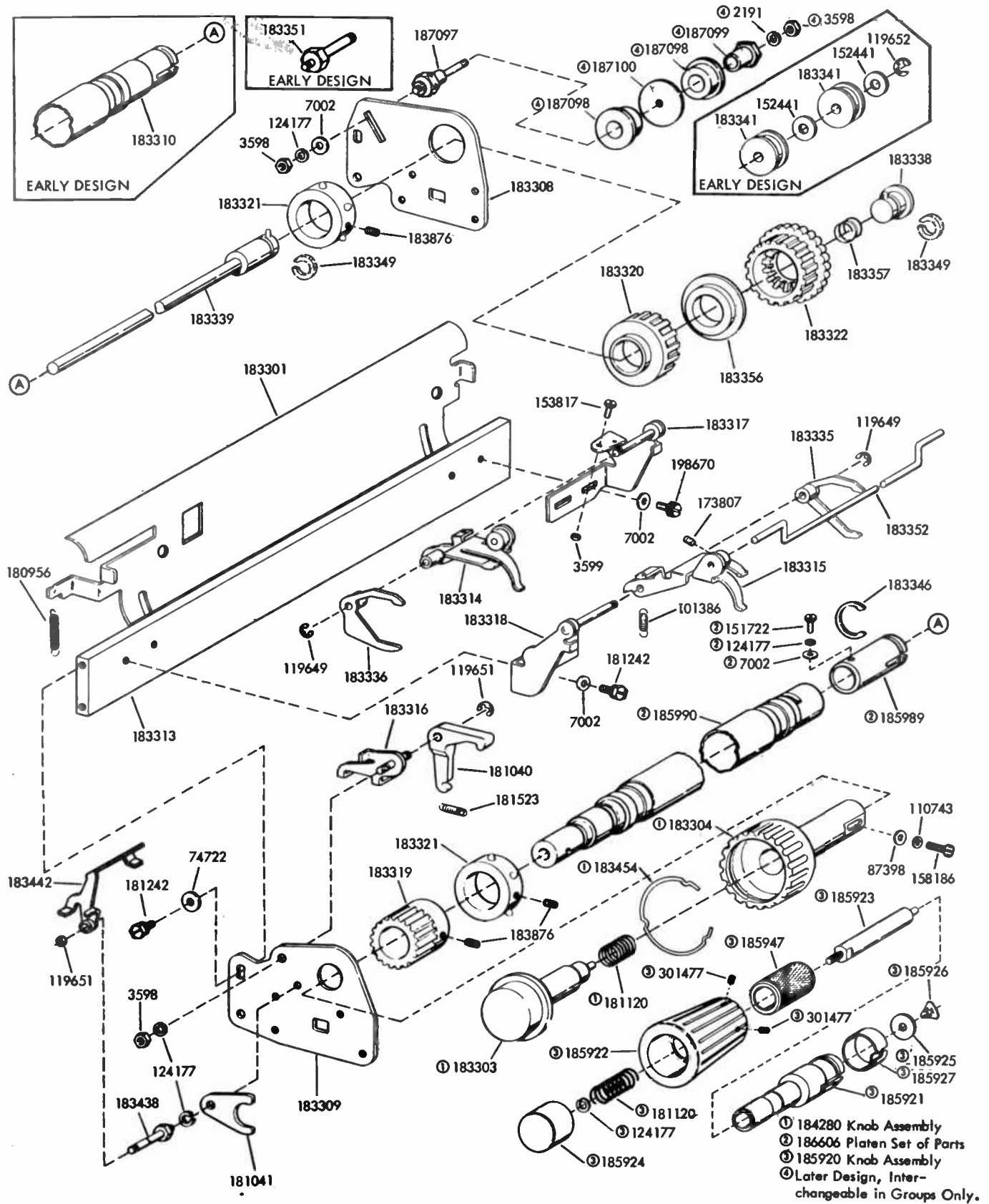


FIGURE 3. PLATEN MECHANISM - SPROCKET FEED

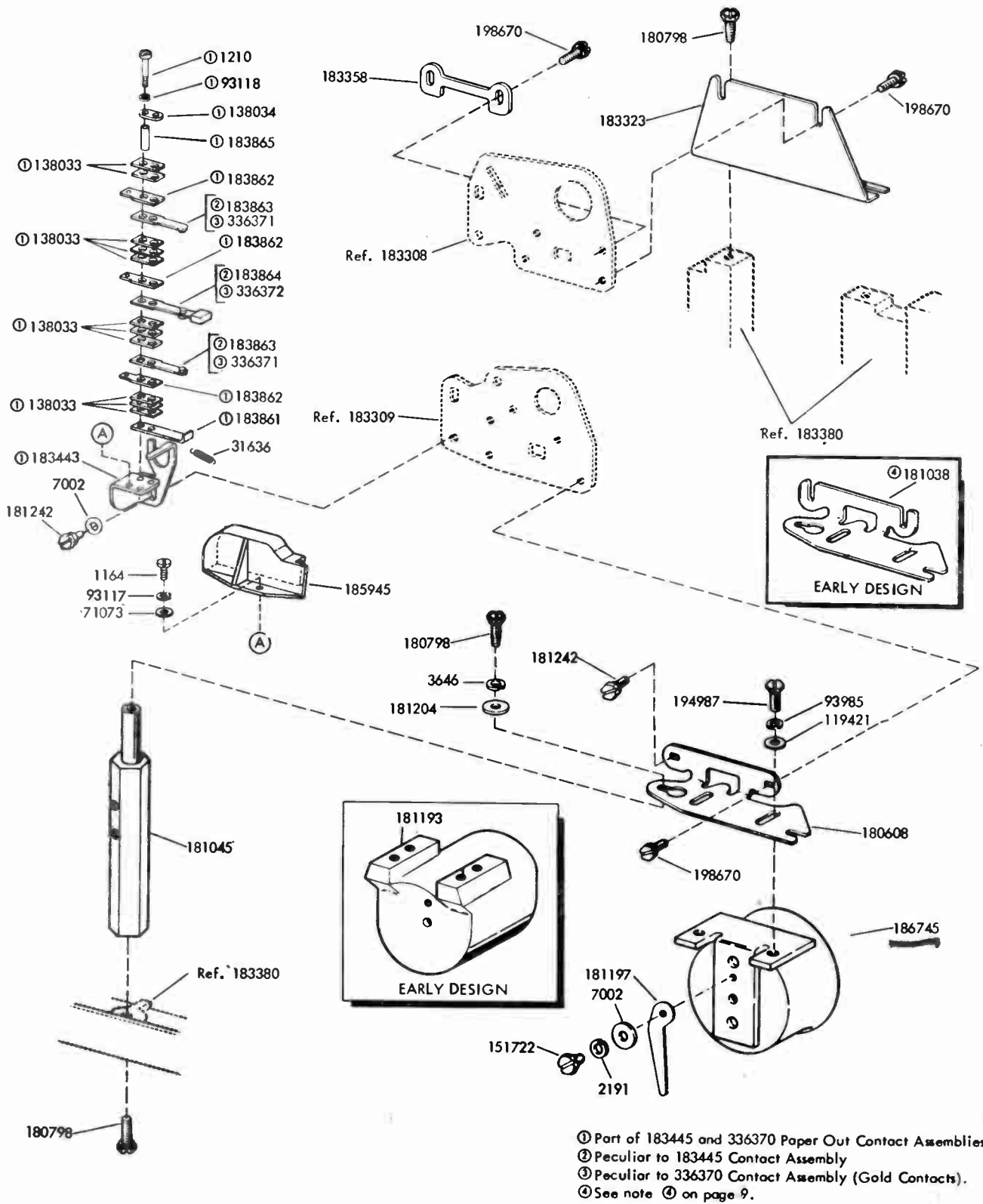


FIGURE 4. PLATEN MECHANISM - SPROCKET FEED (Continued)

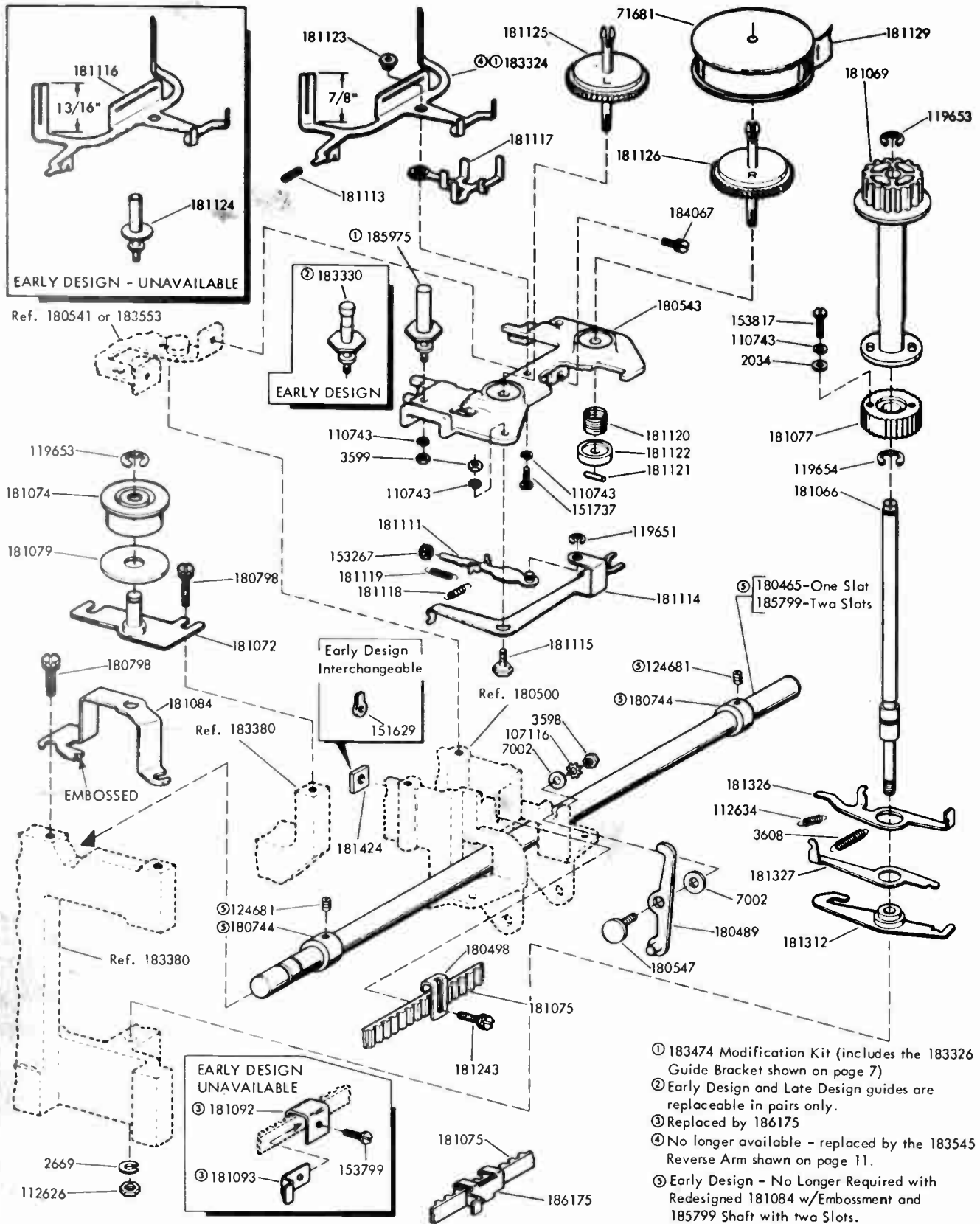


FIGURE 5. RIBBON FEED MECHANISM



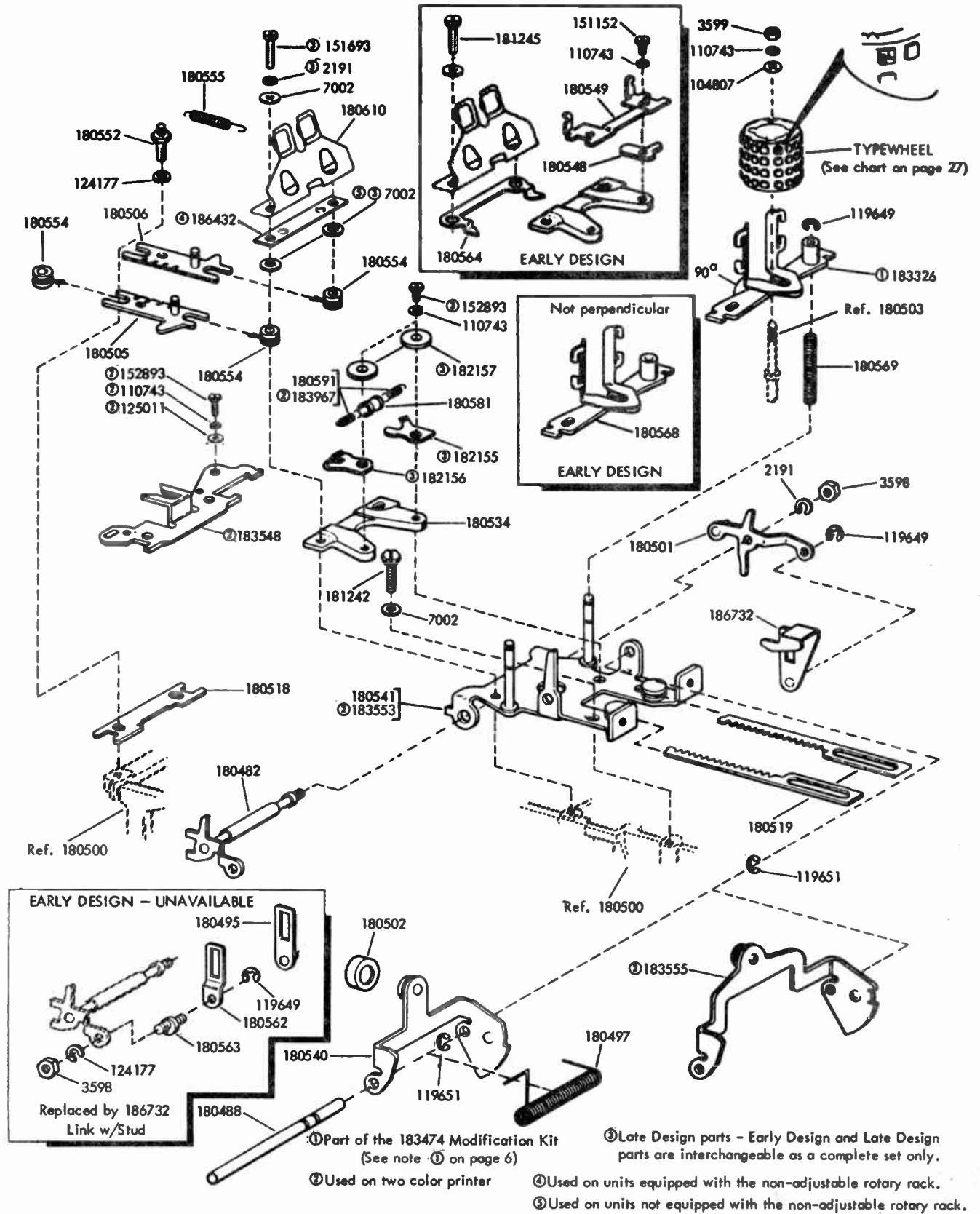


FIGURE 6. CARRIAGE UPPER PLATE MECHANISM

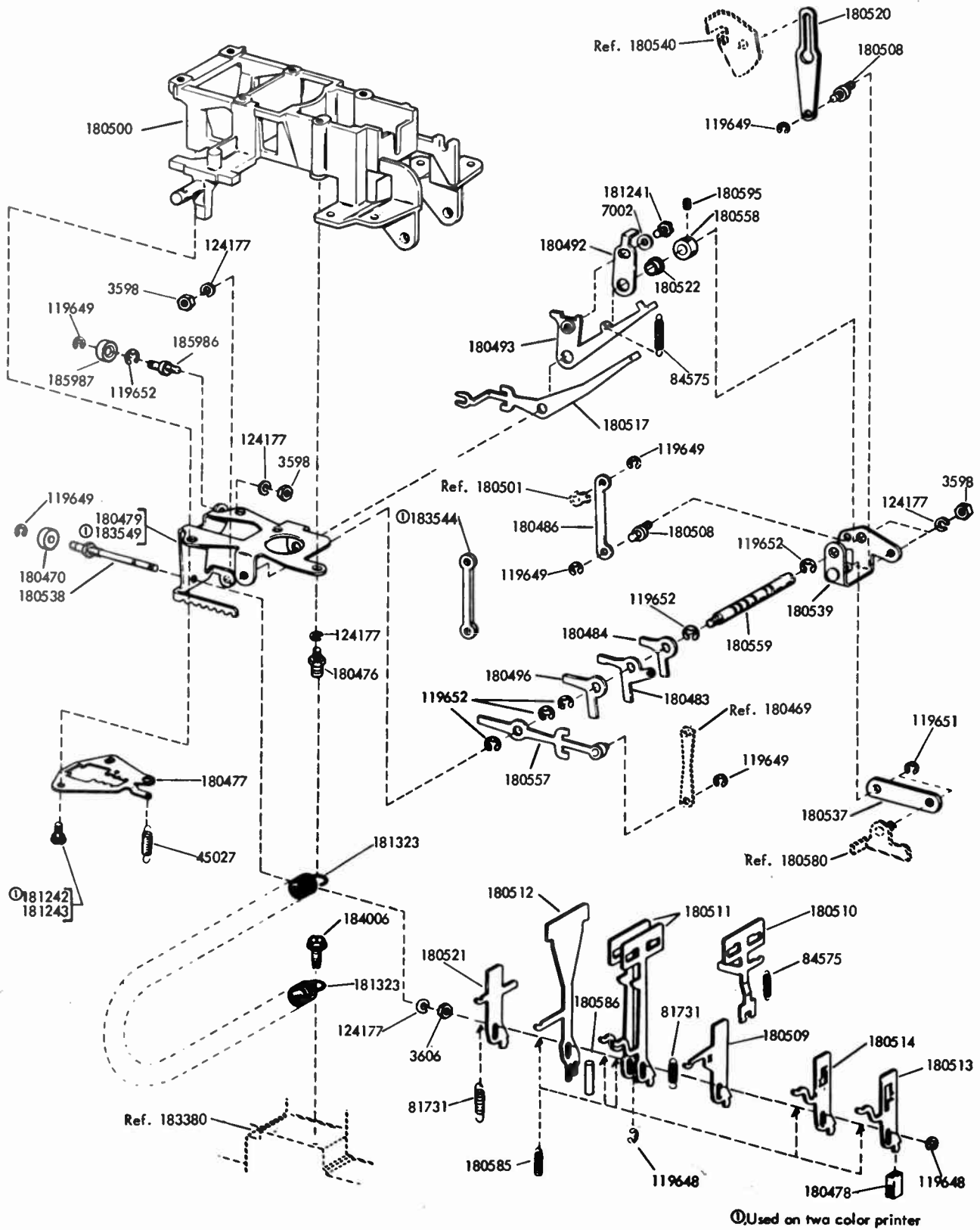


FIGURE 7. CARRIAGE LOWER PLATE MECHANISM

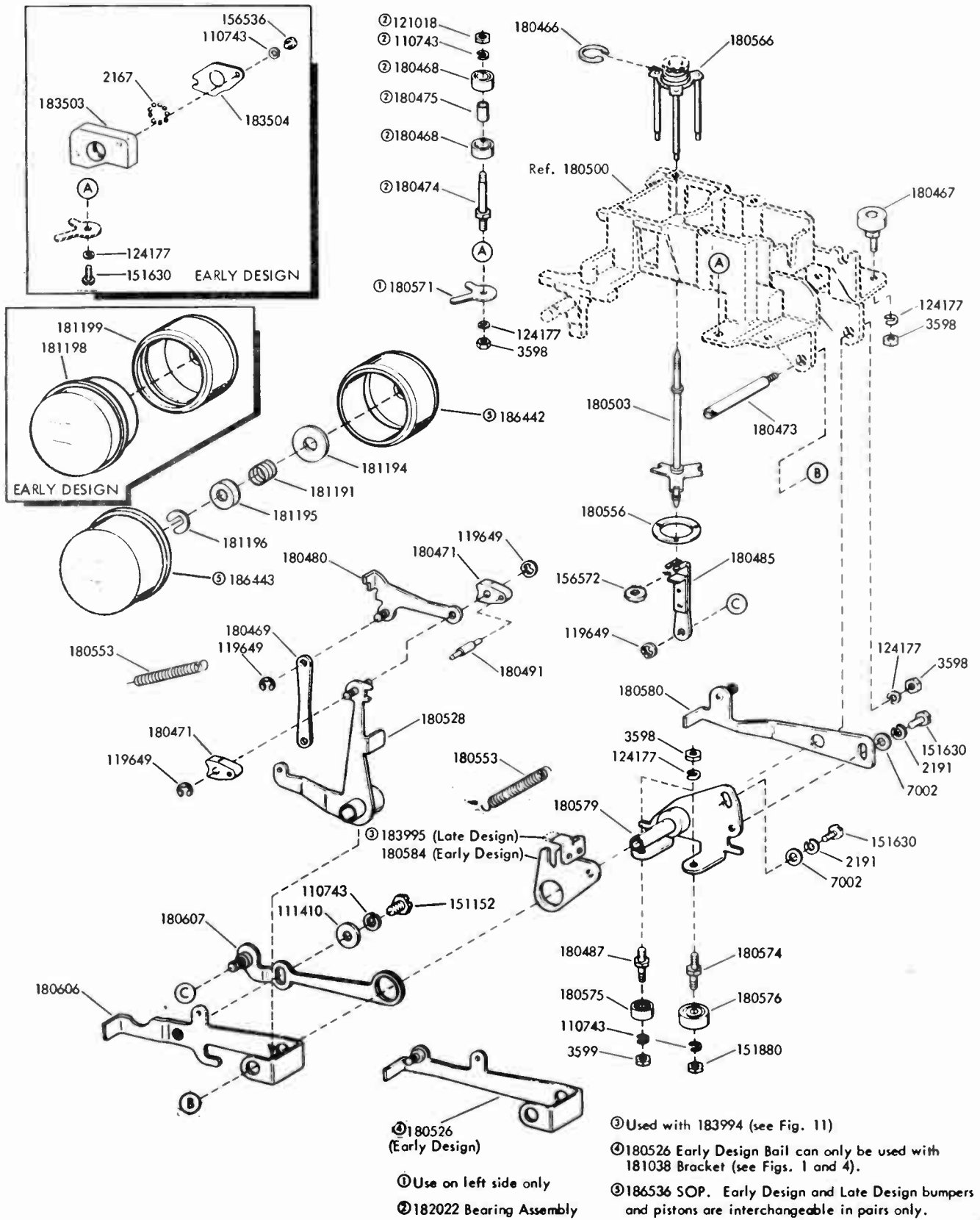
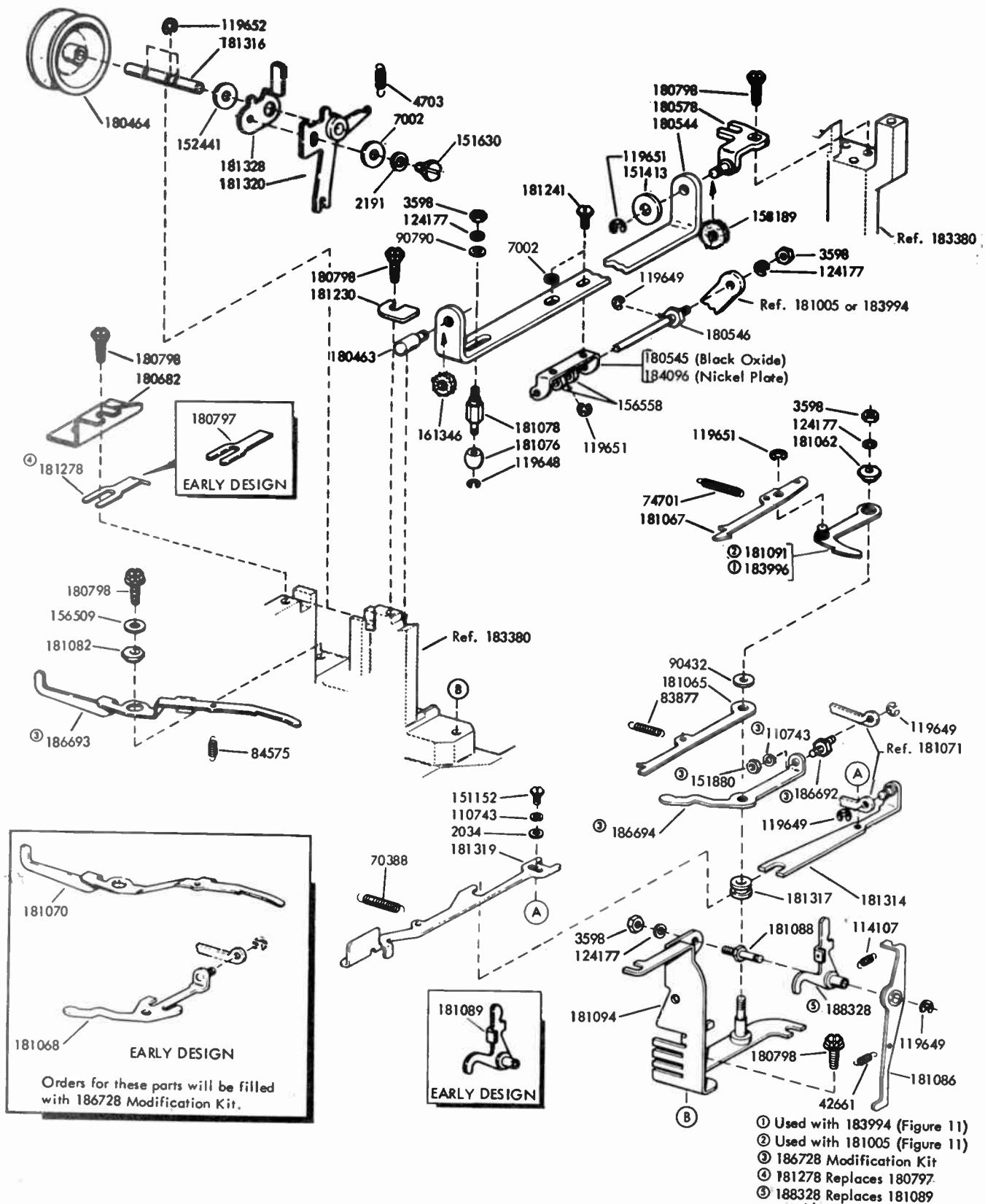


FIGURE 8. CARRIAGE POWER BAIL MECHANISM



- ① Used with 183994 (Figure 11)
- ② Used with 181005 (Figure 11)
- ③ 186728 Modification Kit
- ④ 181278 Replaces 180797
- ⑤ 188328 Replaces 181089

FIGURE 9. CARRIAGE DRIVE BAIL MECHANISM

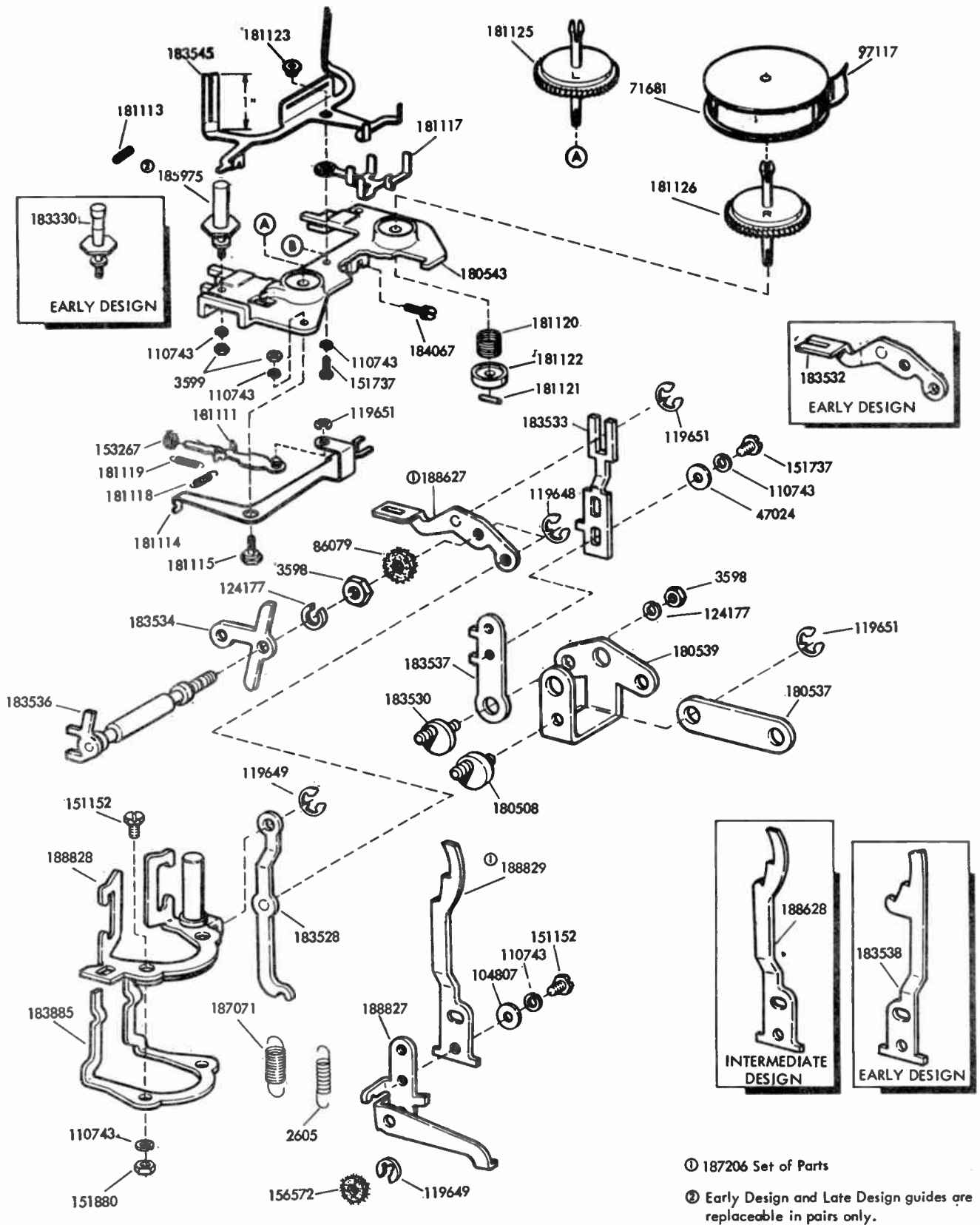
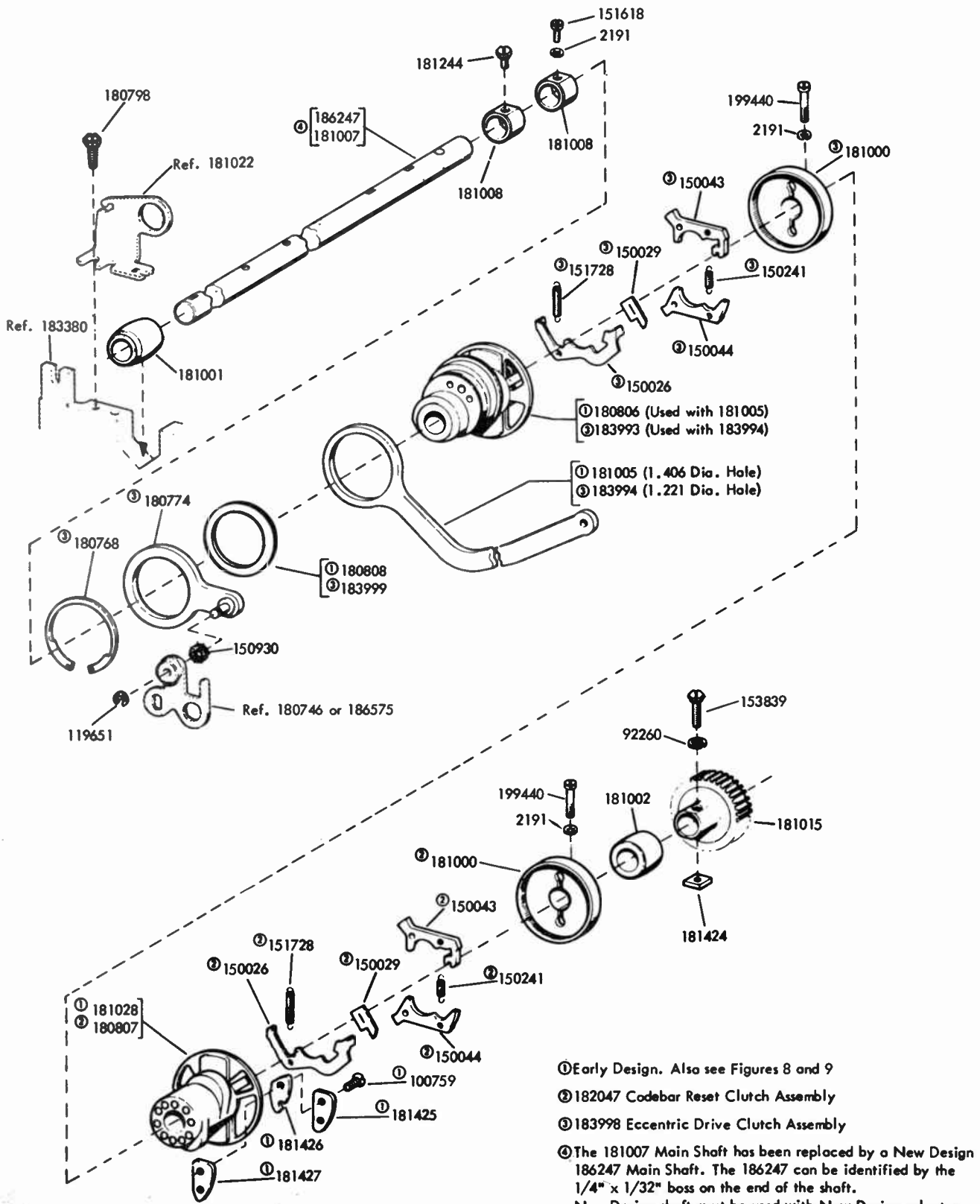


FIGURE 10. CARRIAGE MECHANISM FOR TWO COLOR PRINTING



- ① Early Design. Also see Figures 8 and 9
- ② 182047 Codebar Reset Clutch Assembly
- ③ 183998 Eccentric Drive Clutch Assembly
- ④ The 181007 Main Shaft has been replaced by a New Design 186247 Main Shaft. The 186247 can be identified by the 1/4" x 1/32" boss on the end of the shaft. New Design shaft must be used with New Design selector cam sleeve. See note ② on page 19.

FIGURE 11. MAIN SHAFT MECHANISM - FRICTION FEED

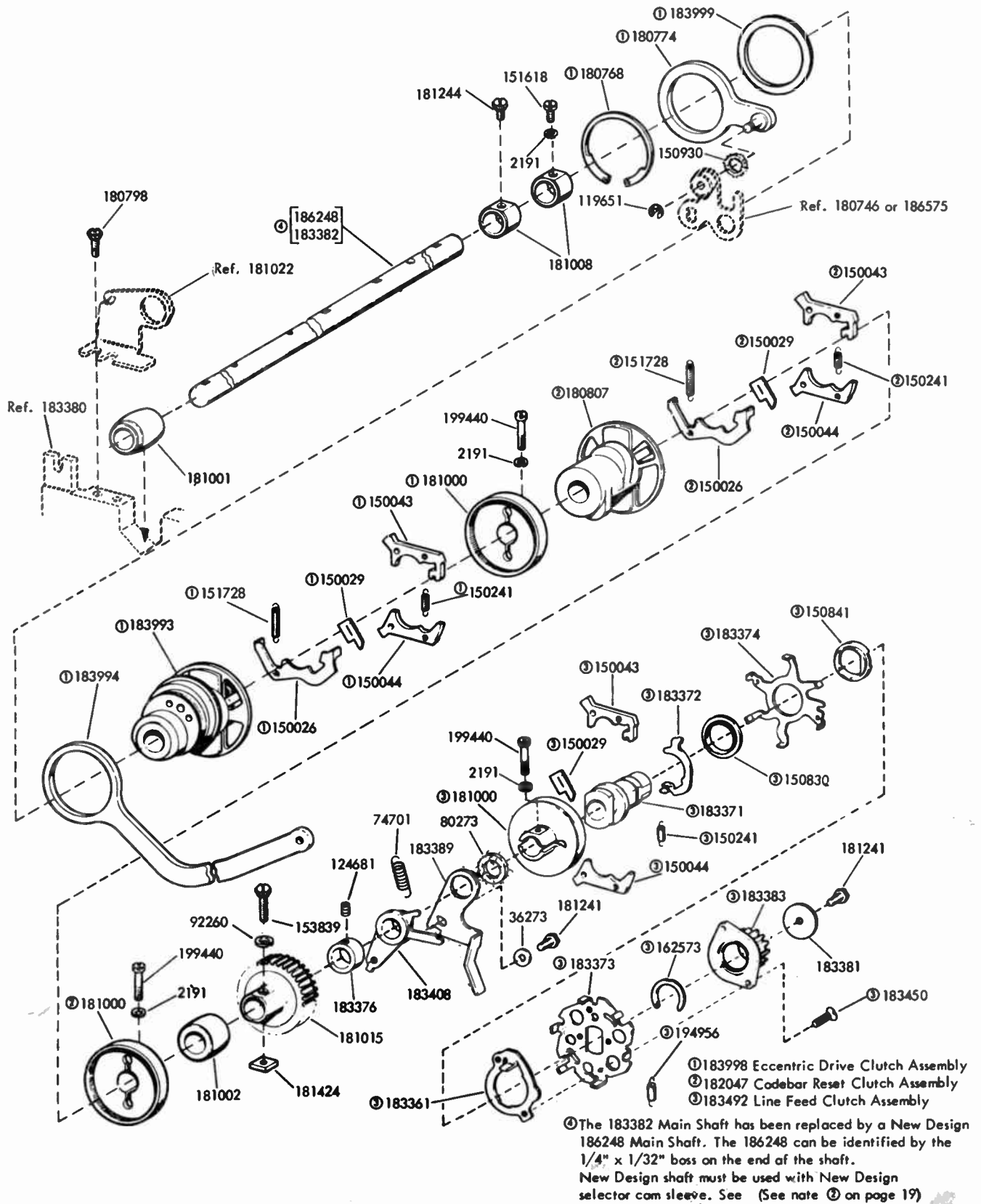


FIGURE 12. MAIN SHAFT MECHANISM - SPROCKET FEED

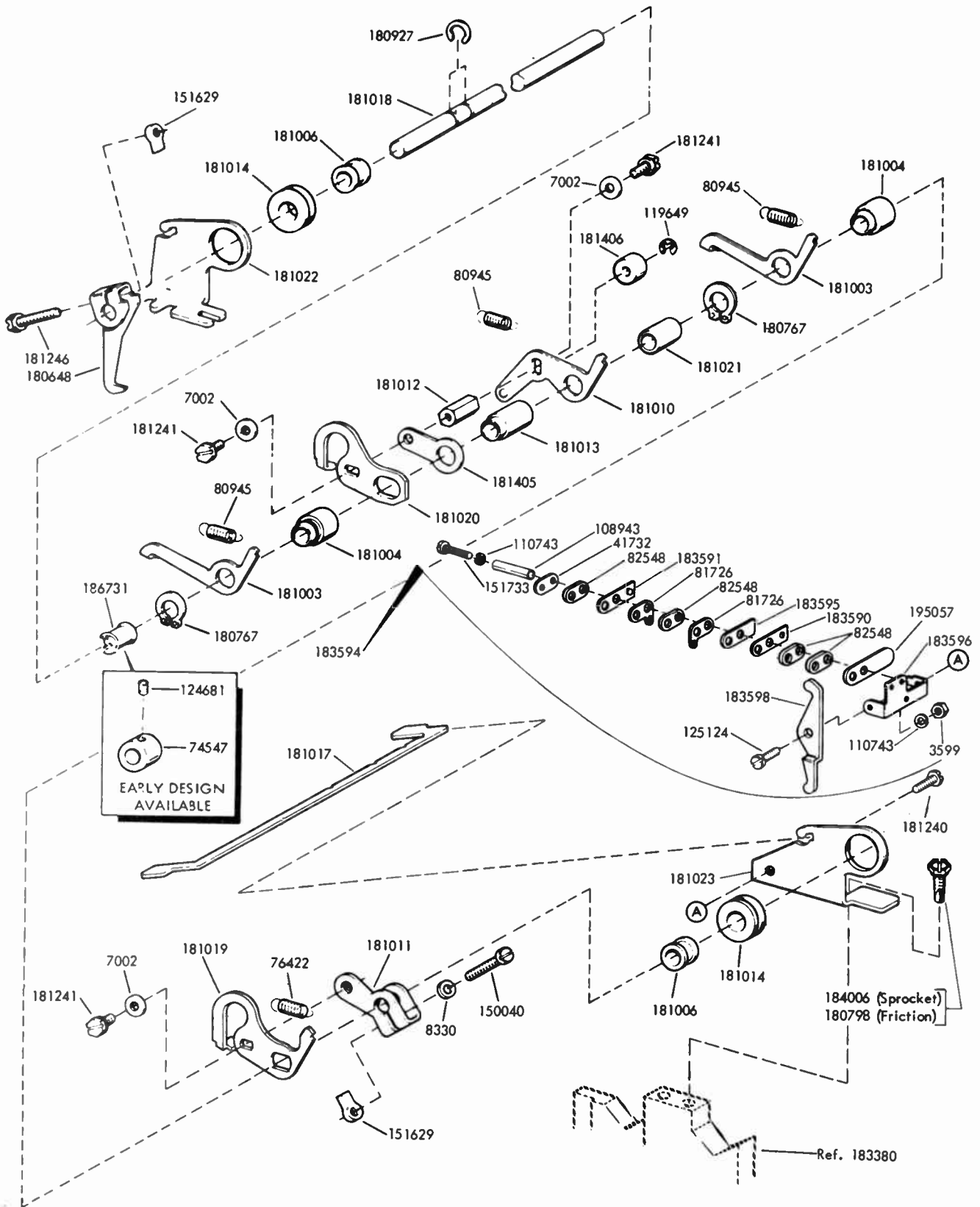
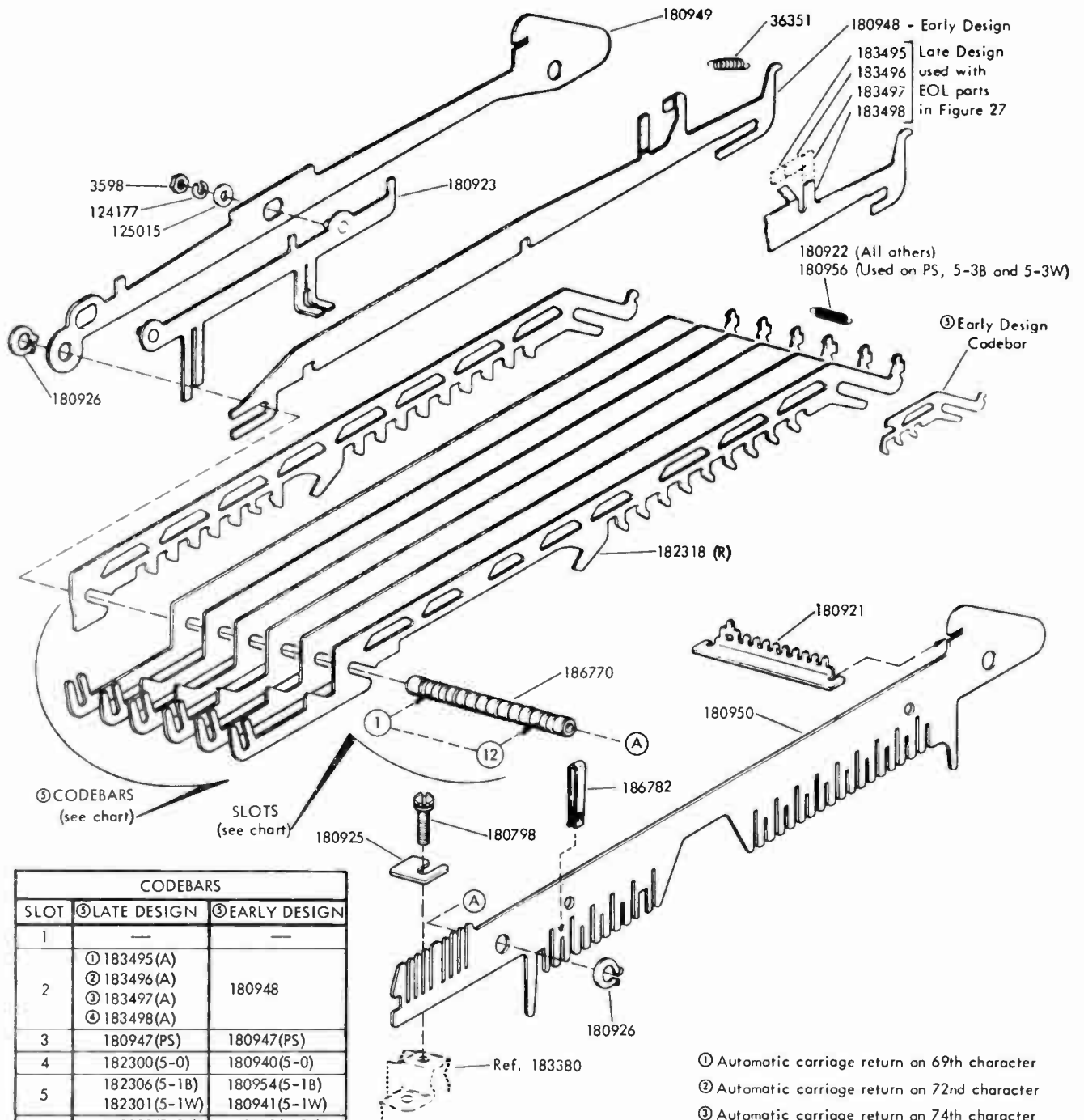


FIGURE 13. CLUTCH TRIP LEVER MECHANISM





③ CODEBARS  
(see chart)

SLOTS  
(see chart)

CODEBARS		
SLOT	③ LATE DESIGN	③ EARLY DESIGN
1	—	—
2	① 183495 (A) ② 183496 (A) ③ 183497 (A) ④ 183498 (A)	180948
3	180947 (PS)	180947 (PS)
4	182300 (5-0)	180940 (5-0)
5	182306 (5-1B) 182301 (5-1W)	180954 (5-1B) 180941 (5-1W)
6	182307 (5-2B) 182302 (5-2W)	180953 (5-2B) 180942 (5-2W)
7	182308 (5-3B) 182303 (5-3W)	180952 (5-3B) 180943 (5-3W)
8	182309 (5-4B) 182304 (5-4W)	180951 (5-4B) 180944 (5-4W)
9	182305 (5-5)	180945 (5-5)
10	—	—
11	—	—
12	—	—

- ① Automatic carriage return on 69th character
- ② Automatic carriage return on 72nd character
- ③ Automatic carriage return on 74th character
- ④ End of line bell only
- ⑤ Early Design and Later Design code bars are interchangeable in sets only. (Numbers in parenthesis indicate stamping an bar.) See notes ③ and ④ on page 18. The letter "B" in parenthesis indicates signal bell on Figs. J and answer-back on Figs. D. The letter "W" in parenthesis indicates signal bell on Figs. S and answer-back on Figs. C.

FIGURE 14. CODEBAR BASKET MECHANISM

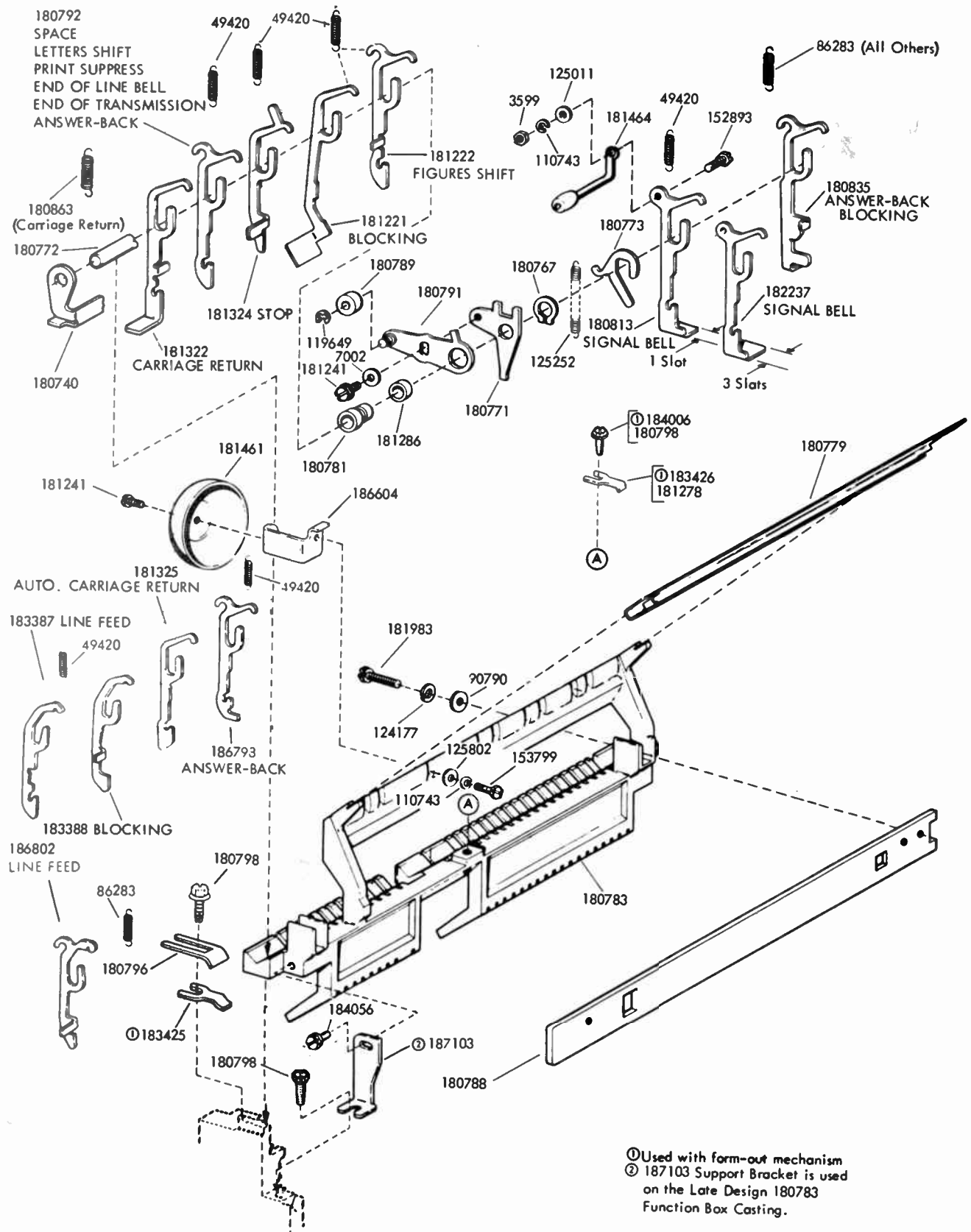


FIGURE 15. FUNCTION BOX MECHANISM

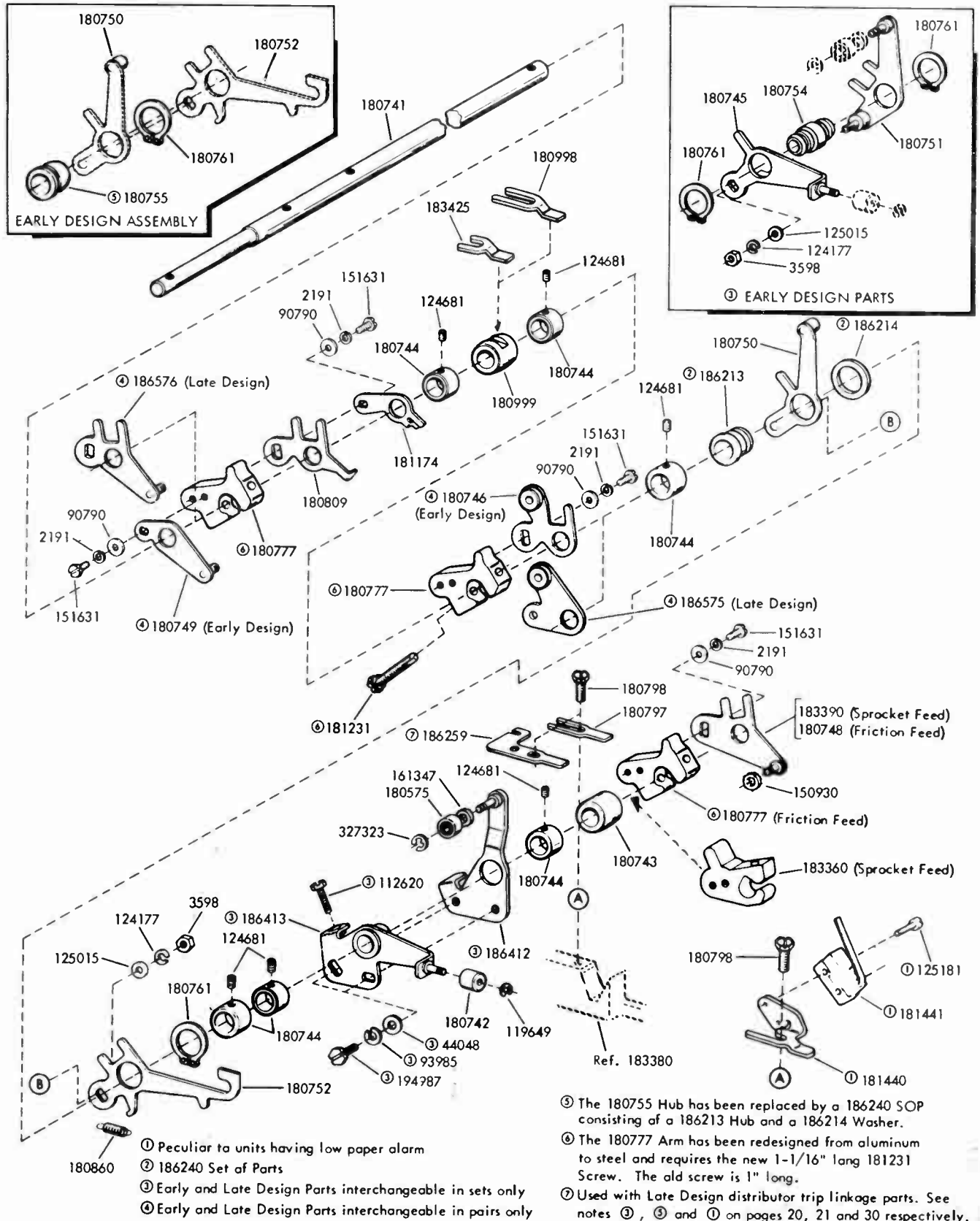


FIGURE 16. FUNCTION SHAFT MECHANISM

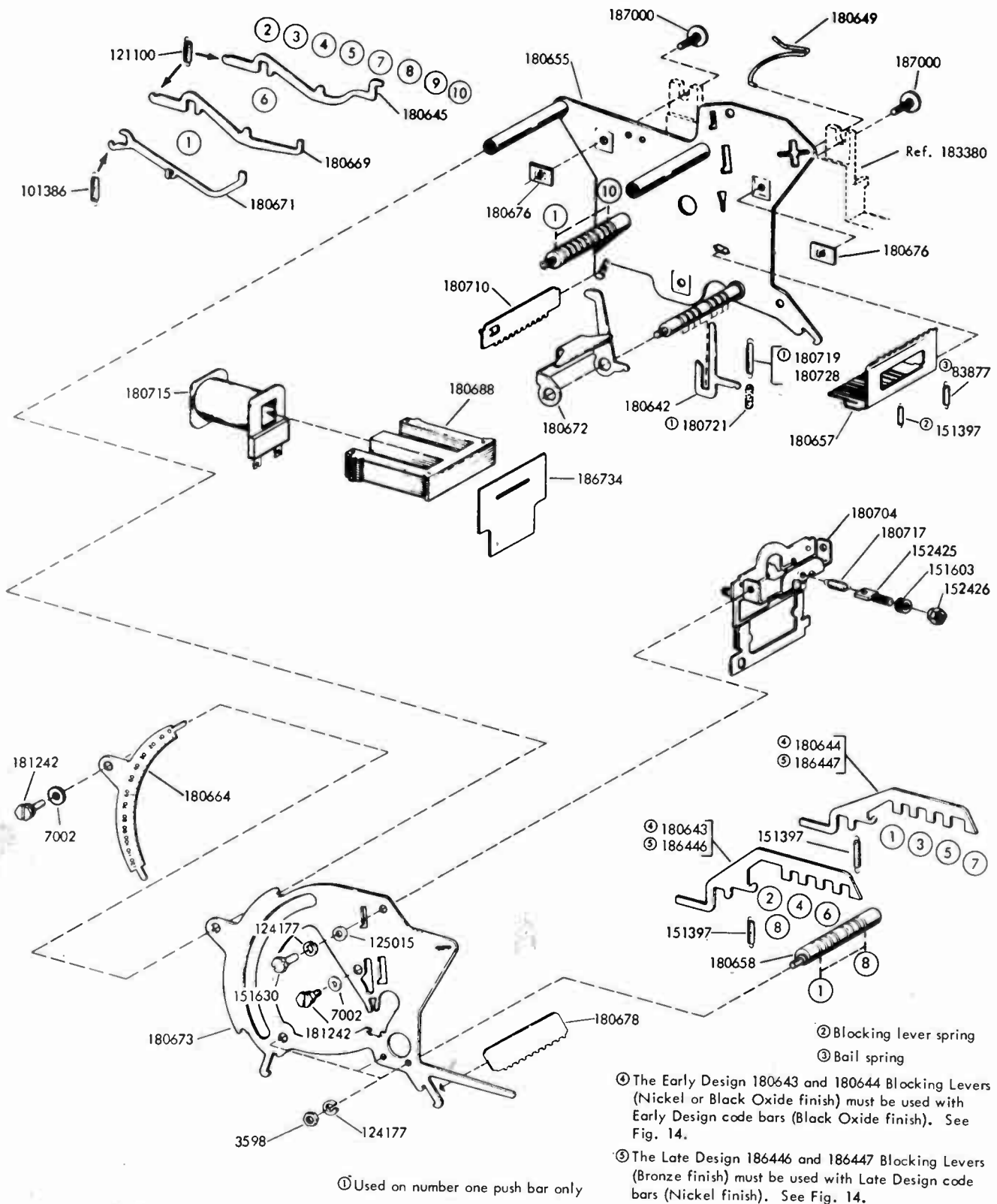


FIGURE 17. SELECTOR FRAME MECHANISM

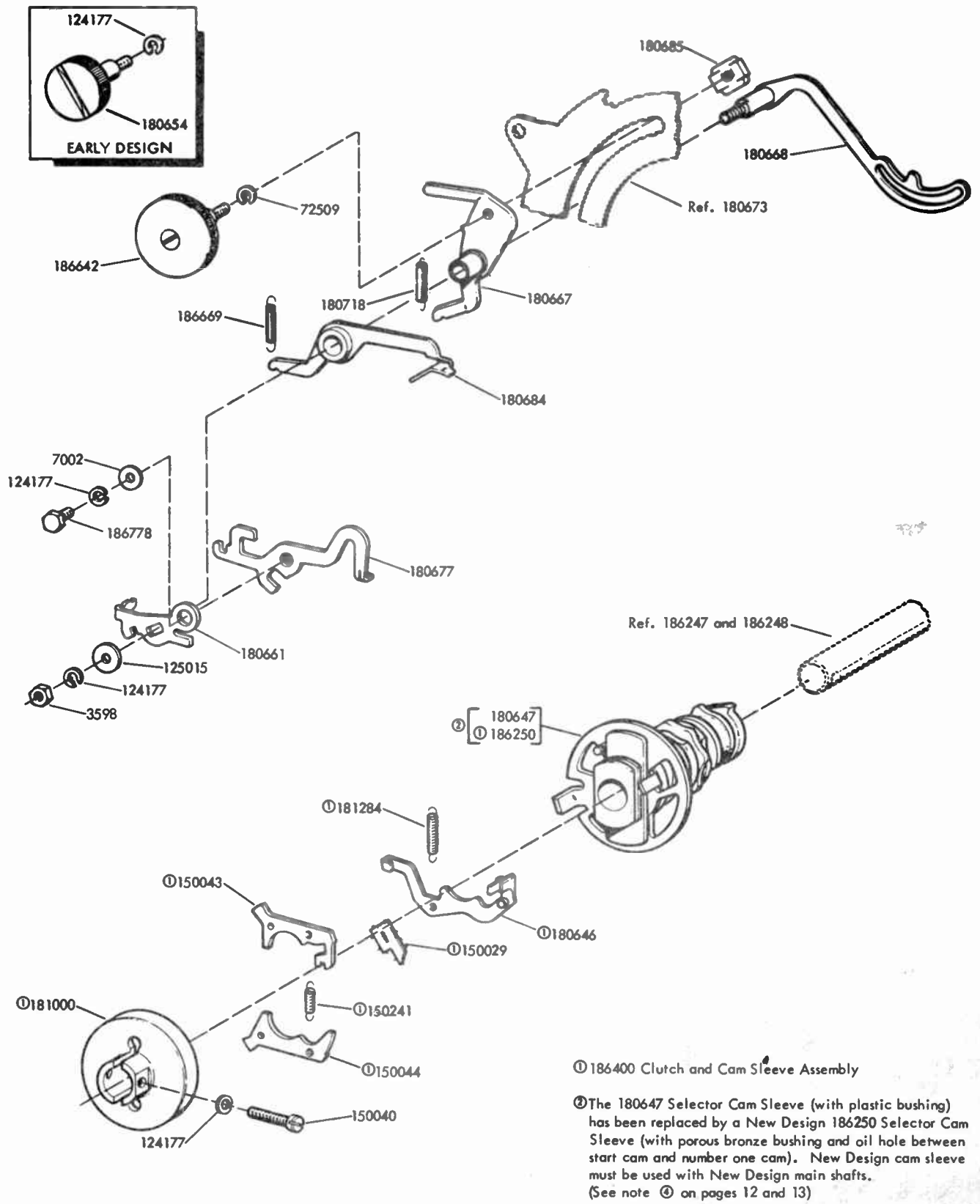
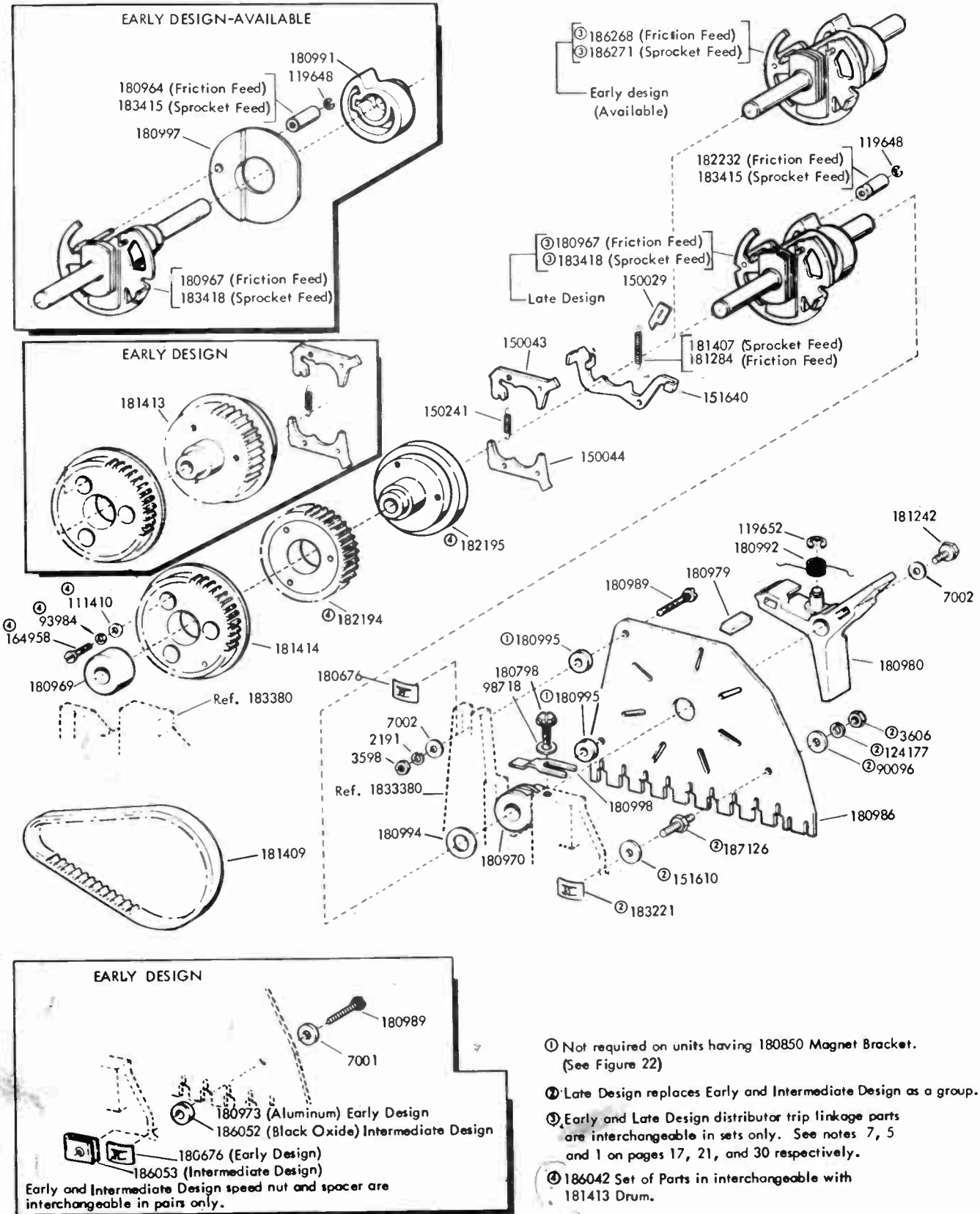
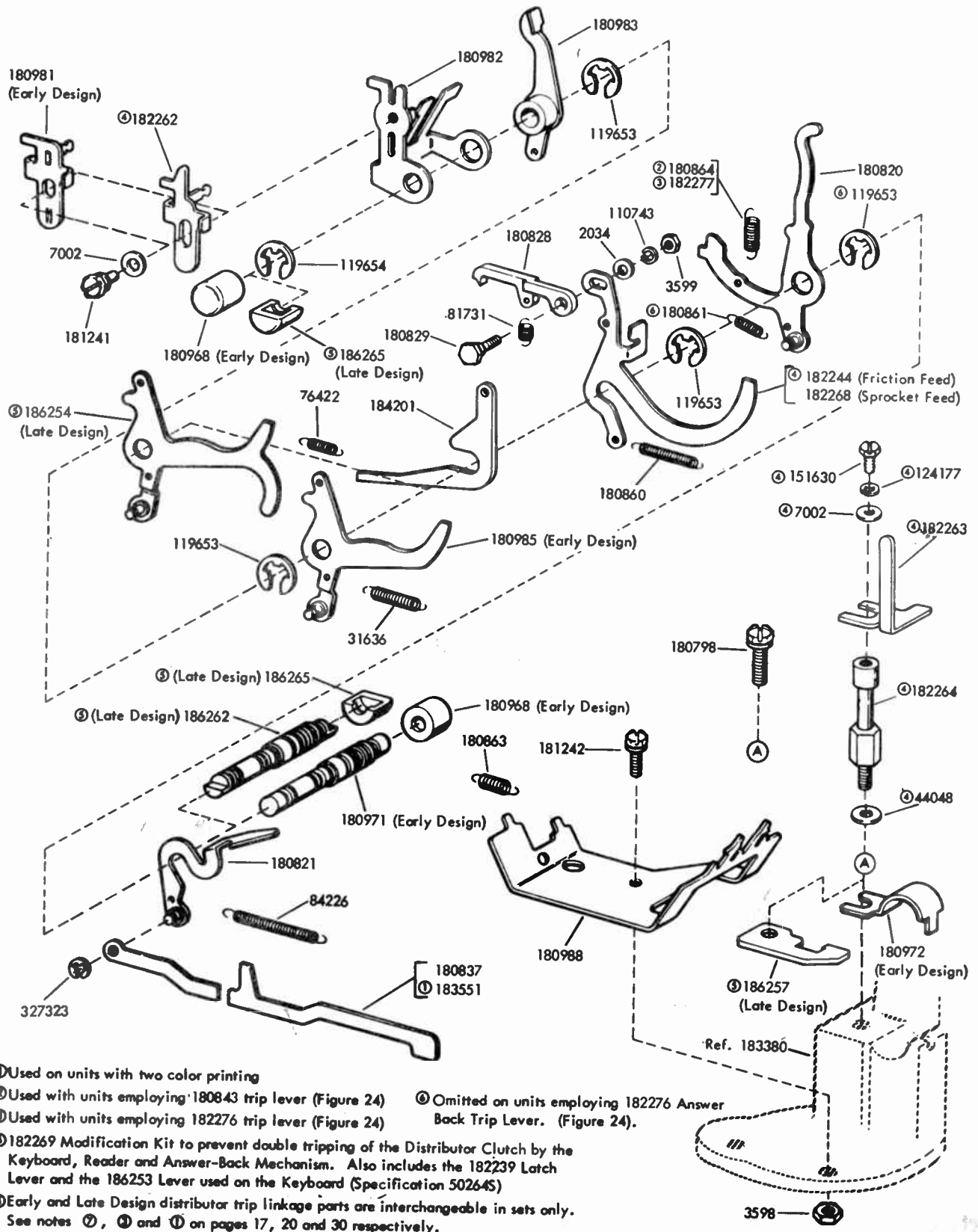


FIGURE 18. CLUTCH AND CAMSLEEVE MECHANISM



- ① Not required on units having 180850 Magnet Bracket. (See Figure 22)
- ② Late Design replaces Early and Intermediate Design as a group.
- ③ Early and Late Design distributor trip linkage parts are interchangeable in sets only. See notes 7, 5 and 1 on pages 17, 21, and 30 respectively.
- ④ 186042 Set of Parts in interchangeable with 181413 Drum.

FIGURE 19. DISTRIBUTOR CLUTCH MECHANISM



- ① Used on units with two color printing
- ② Used with units employing 180843 trip lever (Figure 24)
- ③ Used with units employing 182276 trip lever (Figure 24)
- ④ 182269 Modification Kit to prevent double tripping of the Distributor Clutch by the Keyboard, Reader and Answer-Back Mechanism. Also includes the 182239 Latch Lever and the 186253 Lever used on the Keyboard (Specification 50264S)
- ⑤ Early and Late Design distributor trip linkage parts are interchangeable in sets only. See notes ②, ③ and ④ on pages 17, 20 and 30 respectively.
- ⑥ Omitted on units employing 182276 Answer Back Trip Lever. (Figure 24).

FIGURE 20. TRIP SHAFT MECHANISM

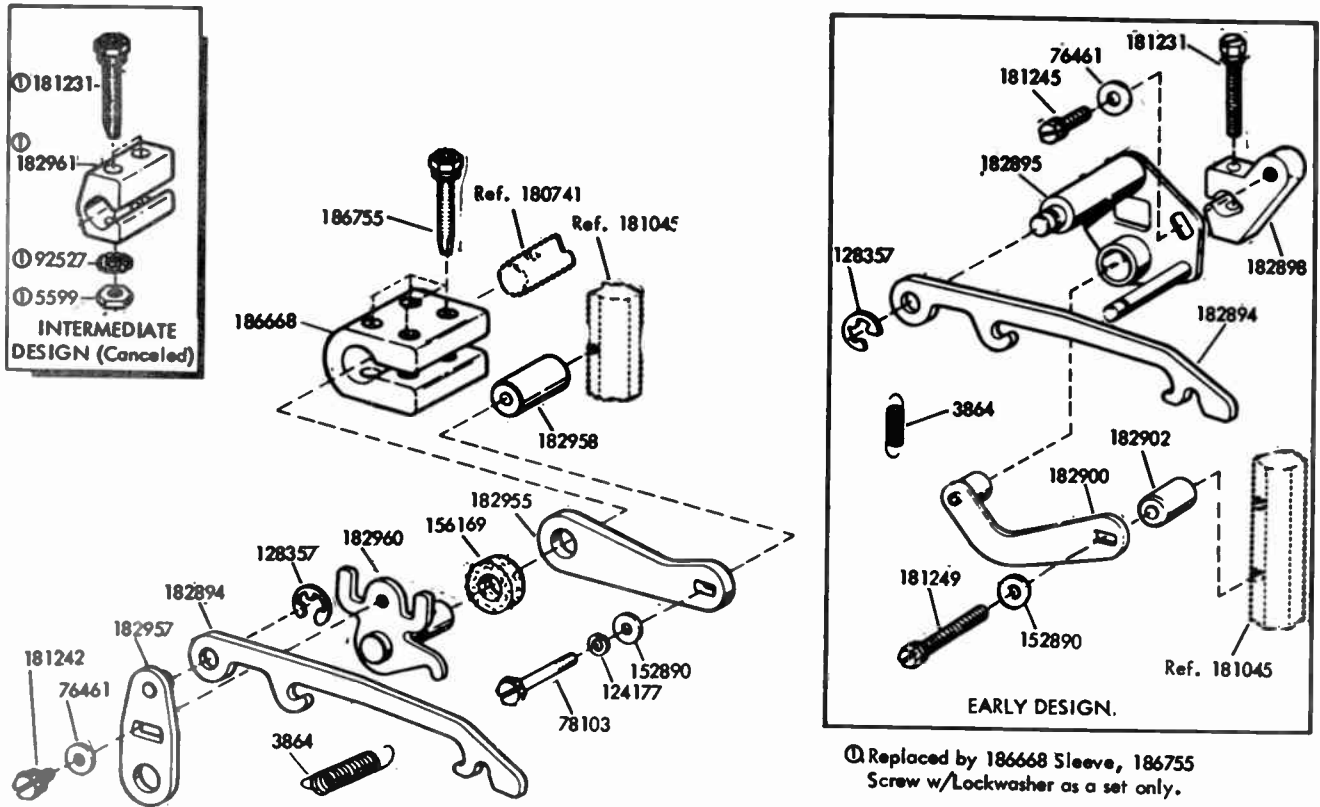


FIGURE 21. 182964 DRIVE ARM ASSEMBLY

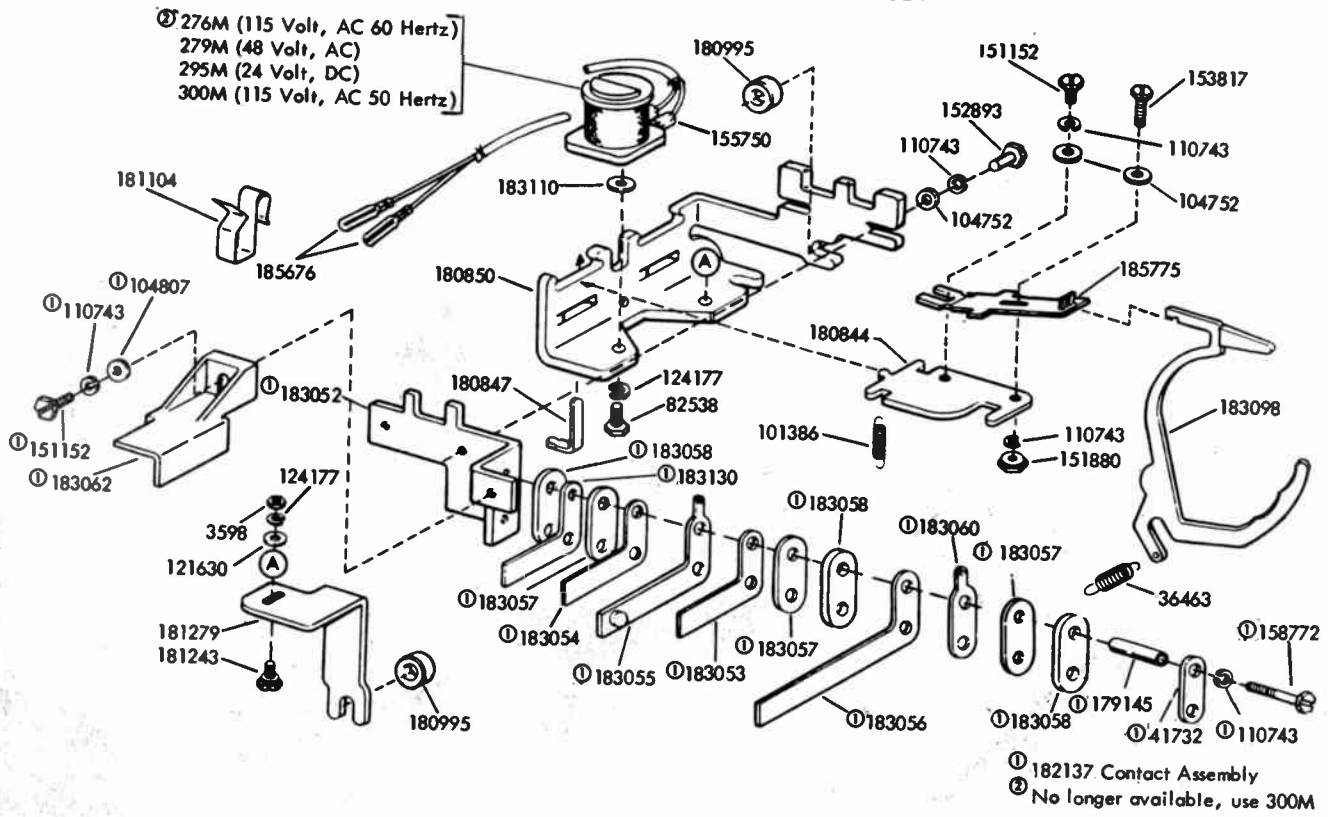


FIGURE 22. CLUTCH TRIP MECHANISM



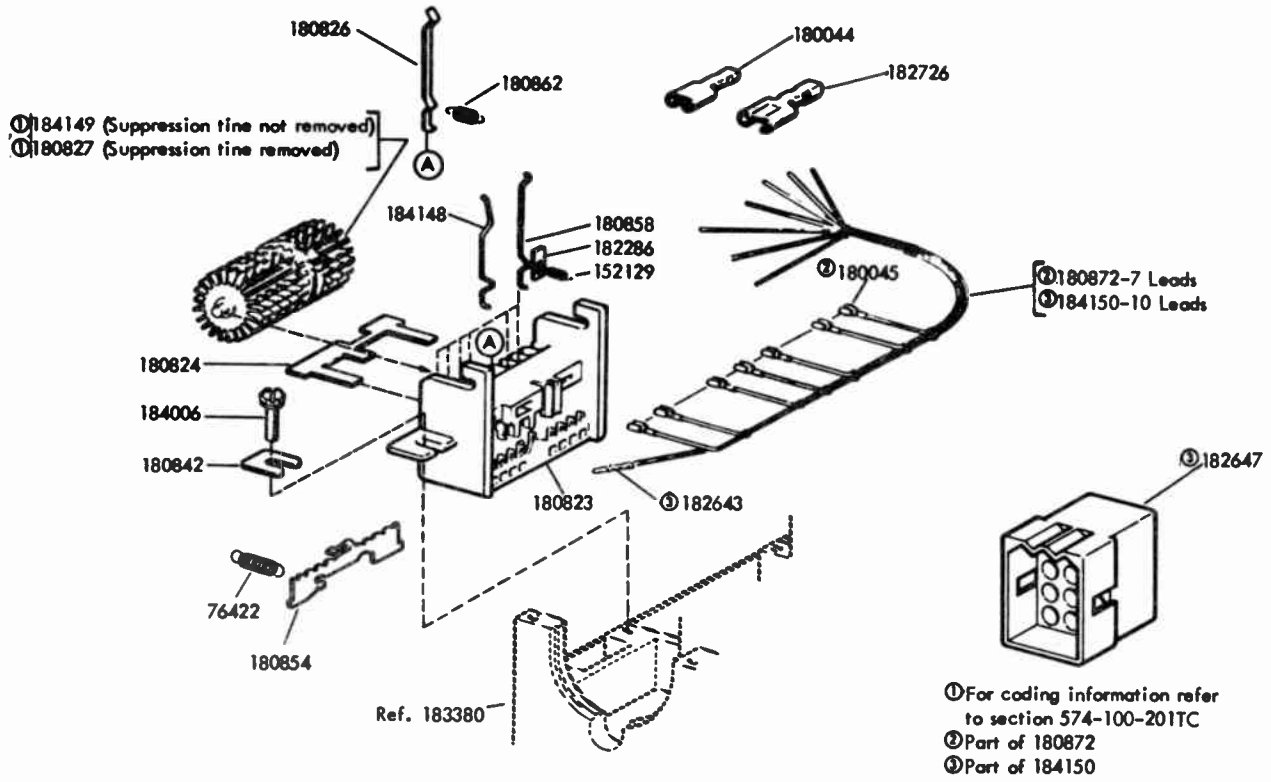


FIGURE 23. ANSWER-BACK DRUM MECHANISM

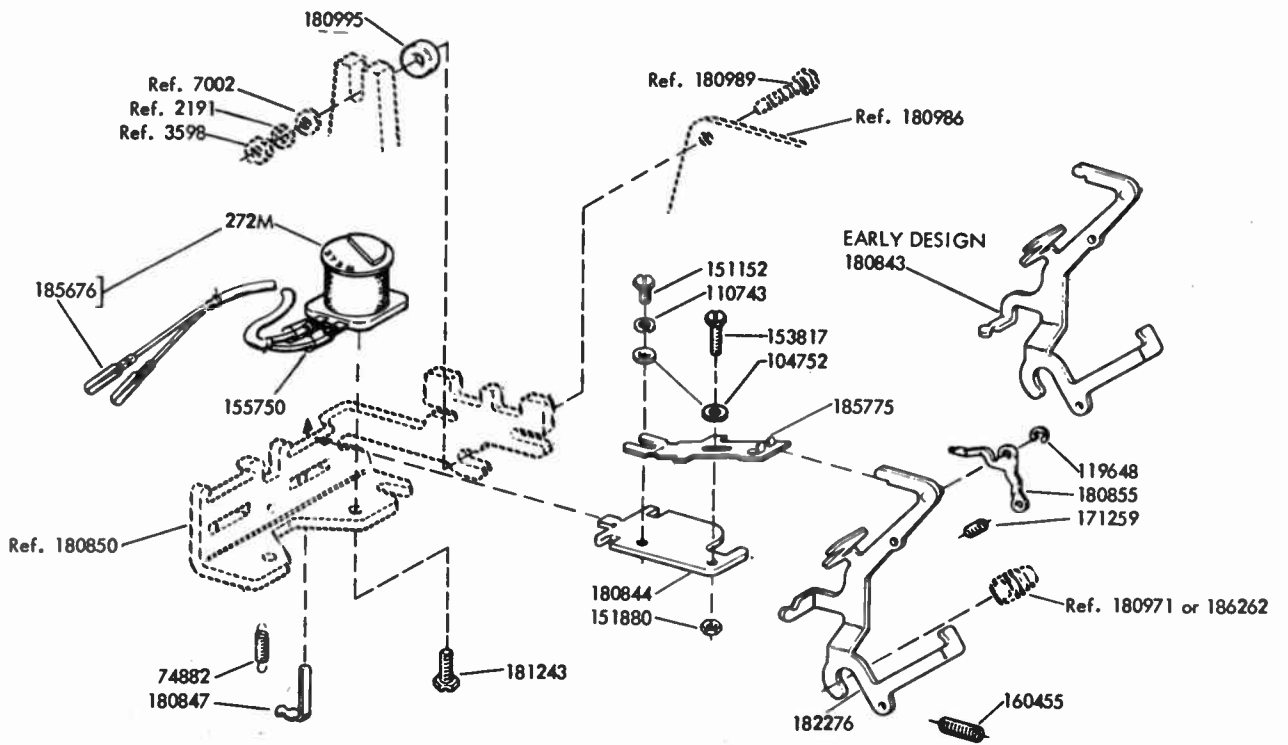
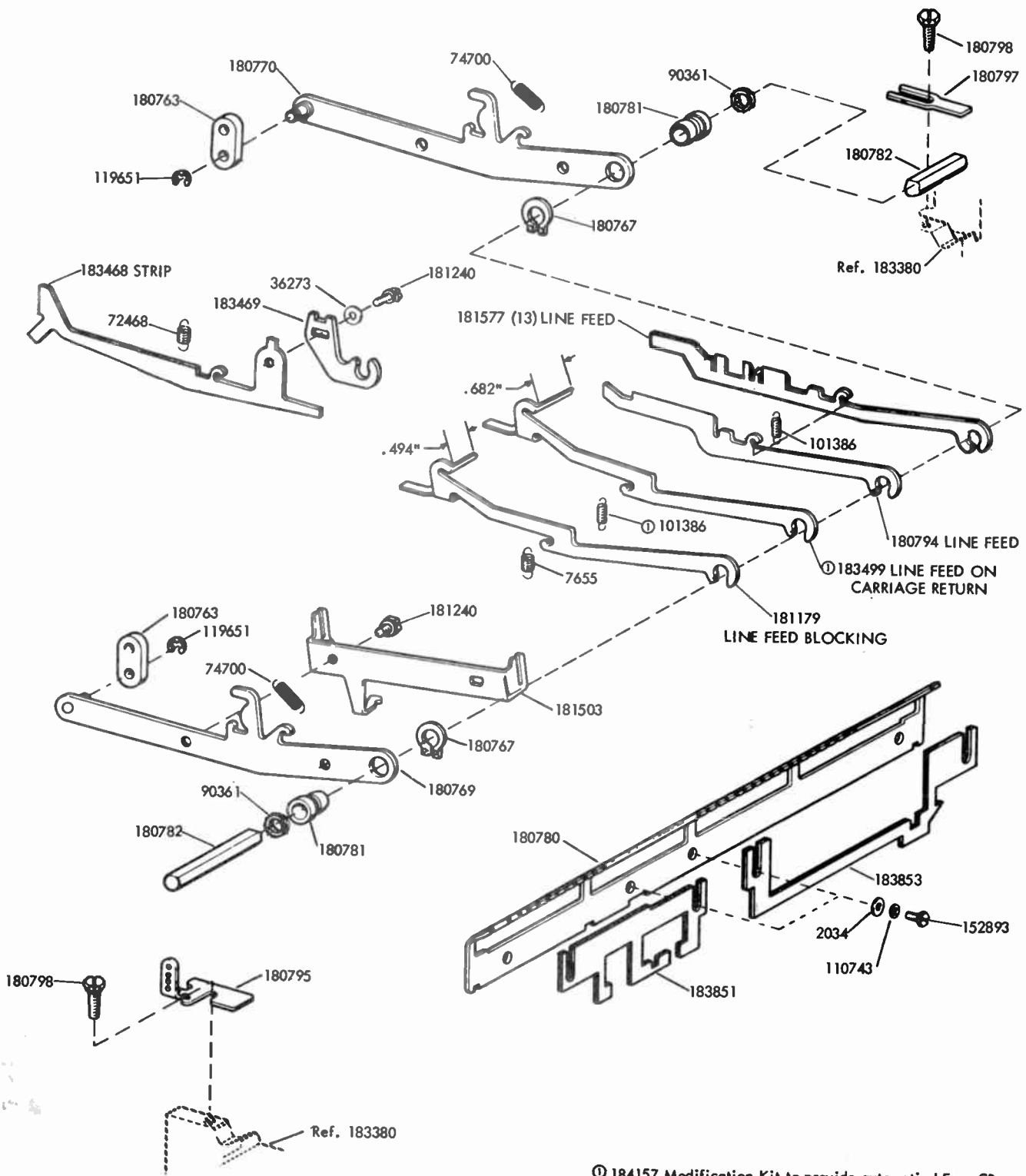


FIGURE 24. ANSWER-BACK TRIP MAGNET MECHANISM



① 184157 Modification Kit to provide automatic LF on CR  
 Specification 504135

NOTE: Number in parenthesis ( ) indicates slot number.

FIGURE 25. LINE FEED FUNCTION LEVER MECHANISM

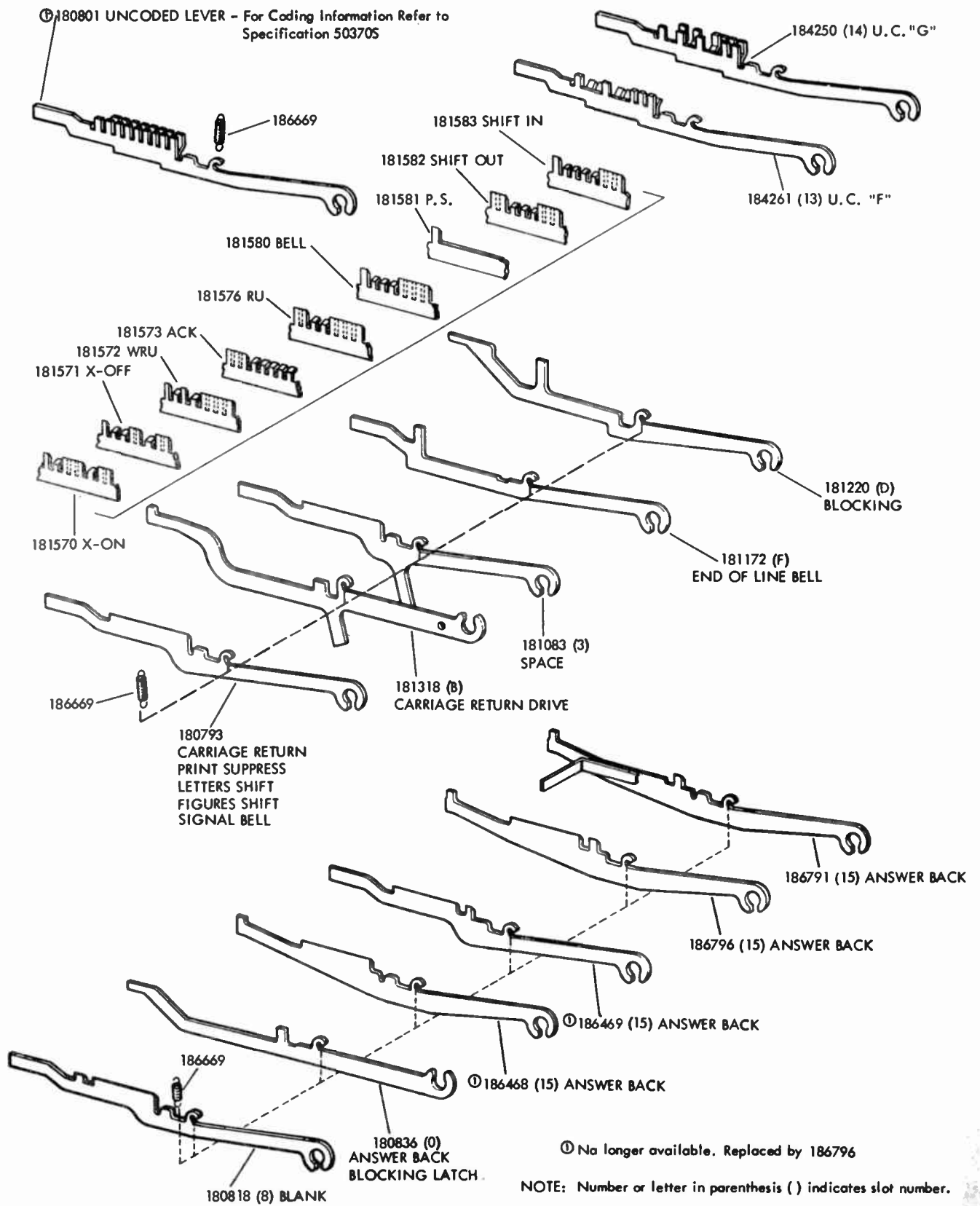


FIGURE 26. FUNCTION LEVERS

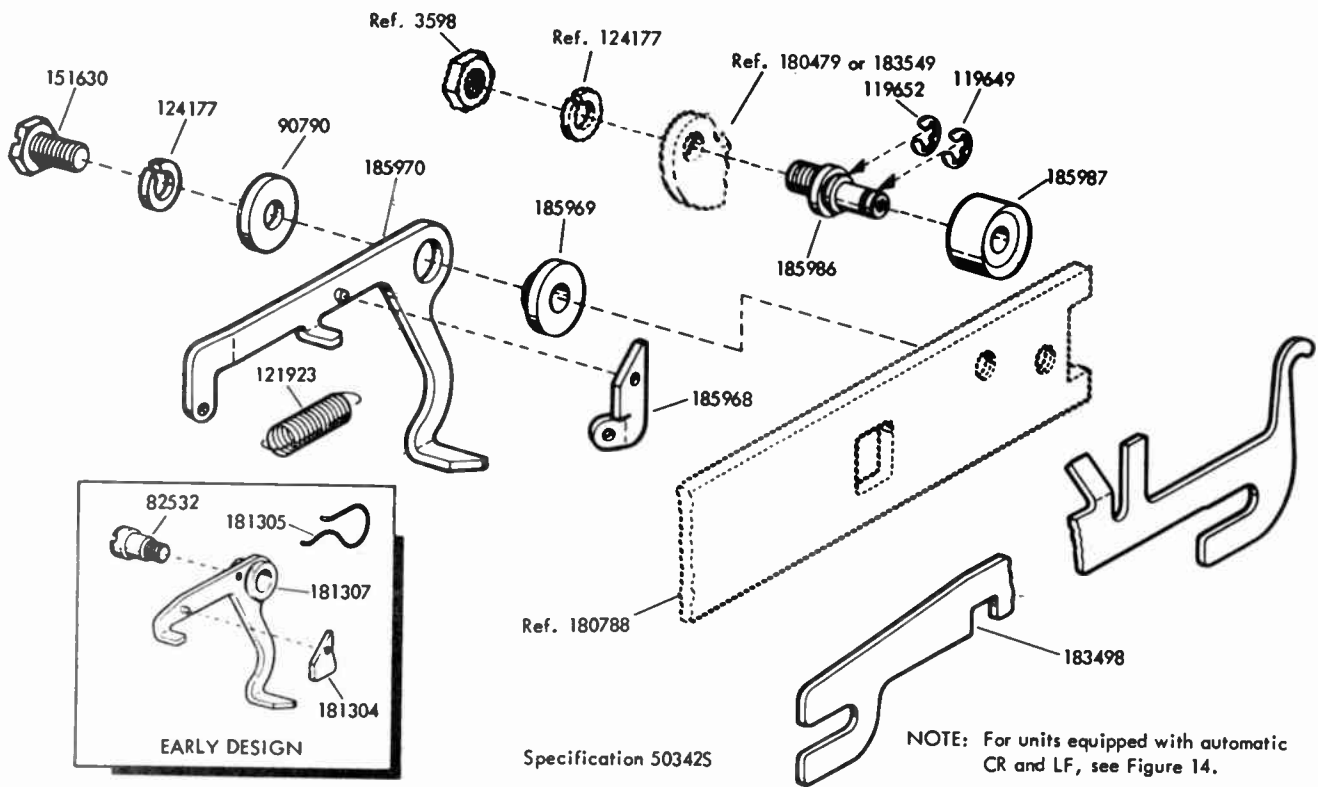


FIGURE 27. 185971 MODIFICATION KIT TO PROVIDE PRINTER WITH AN END-OF-LINE BELL TO RING ON APPROXIMATELY THE 62ND CHARACTER

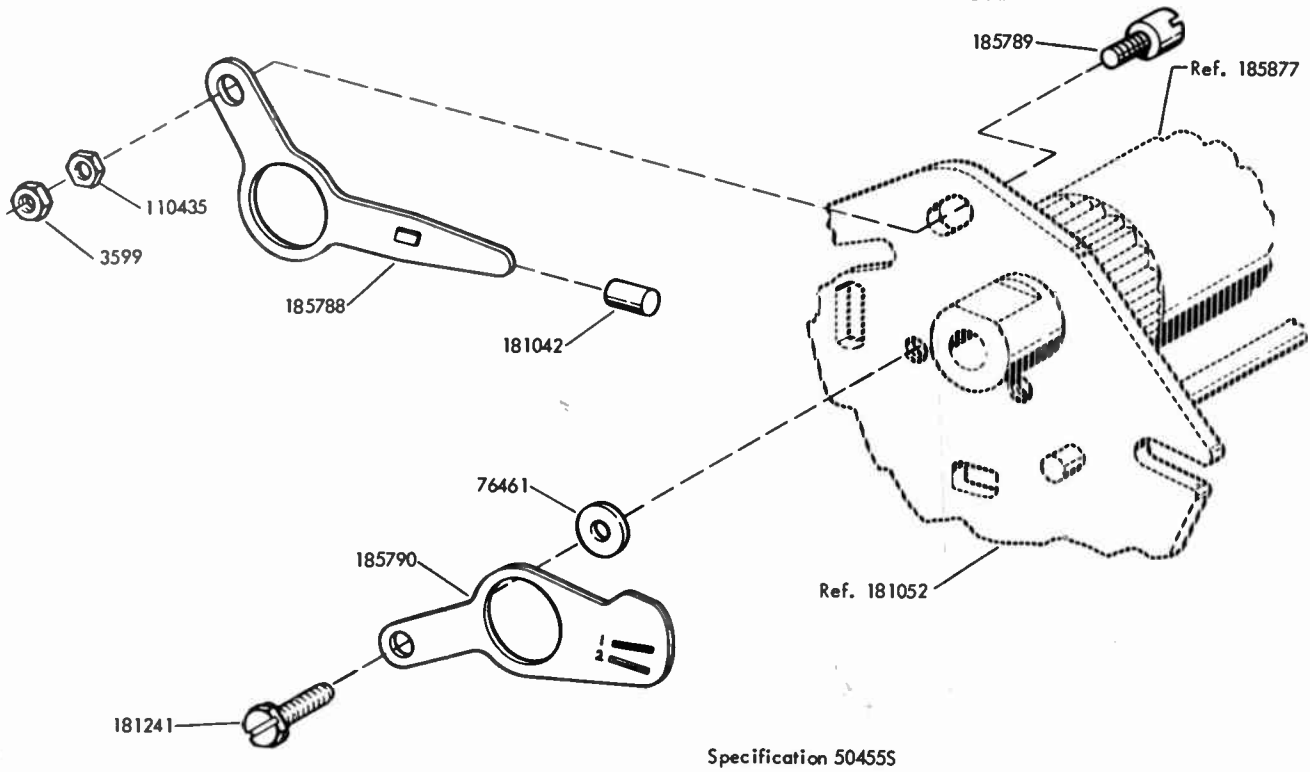


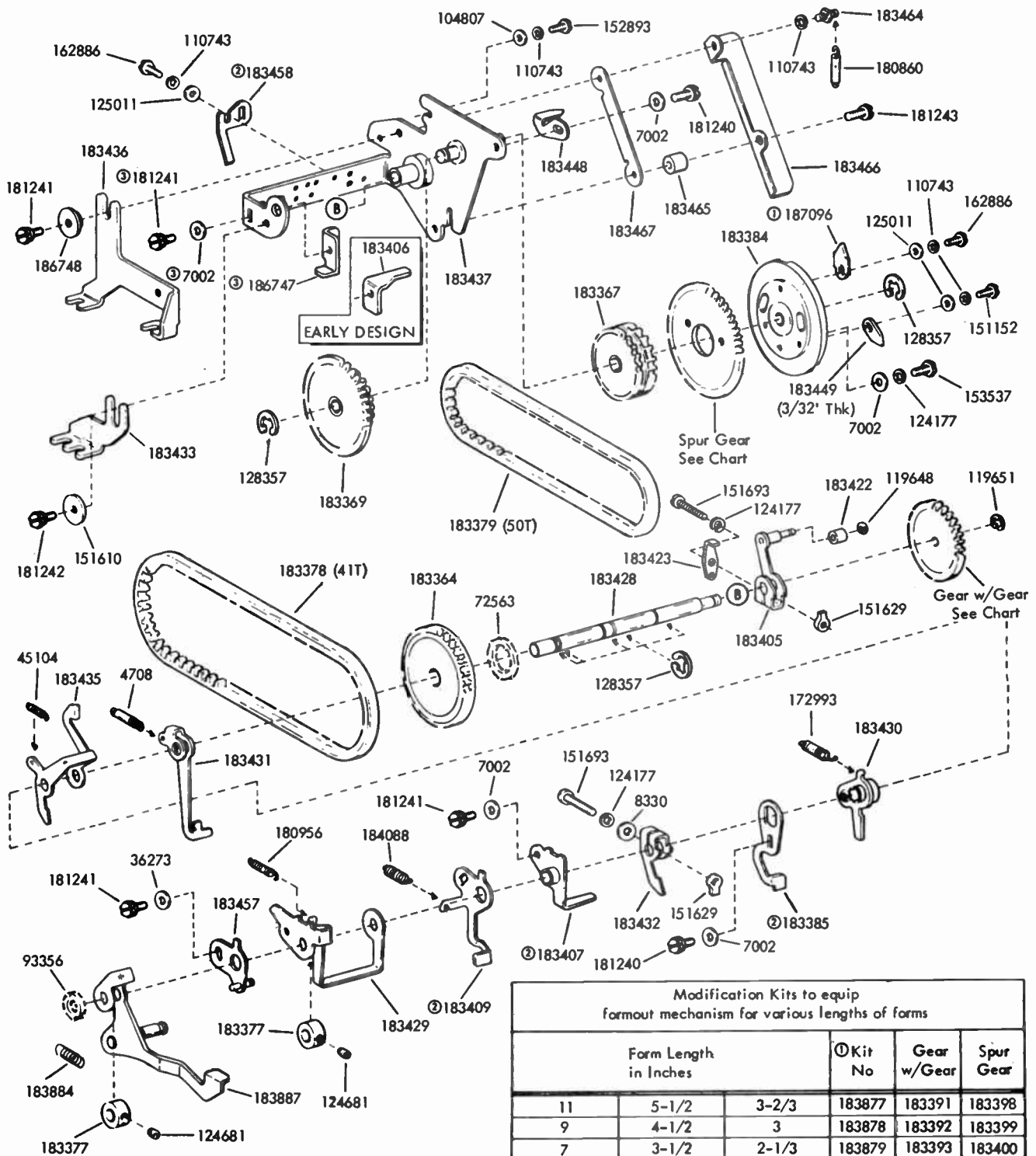
FIGURE 28. 185791 MODIFICATION KIT TO PROVIDE CONTROLLED SINGLE OR DOUBLE LINE FEED FEATURE ON FRICTION FEED PRINTER

Telex ←

TYPE-WHEEL	PART NUMBER	POSITION	CHARACTERS																										FUNCTIONS											
			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	CR	LF	LTRS	FIGS	SPACE	BLANK						
JA	180460	LETTERS	STANDARD ARRANGEMENT																																					
		FIGS	-	?	:	+	3	\$	&	#	8	█	(	)	.	,	9	φ	1	4	∇	5	7	:	2	/	6	"	█	█	█	█	█	█						
JB	180596	LETTERS																																						
		FIGS	↑	⊕	○	↗	→	↘	↓	↖	←	↙	Ⓜ																											
JC	180597	LETTERS																																						
		FIGS	5	█	\$		2	&	∇		,	4	6	∖	0																									
JD	181302	LETTERS																																						
		FIGS																																						
JE	182288	LETTERS																																						
		FIGS																																						
JF	182289	LETTERS	.	9	█	∖		█	+	→	)	-	.	>	.	∇	6	/	=	(	0	7	█	3	∇	5	>	8	2	X		4								
		FIGS	c	y	n	,	a	m	z	t	f	k	o	r																										
JG	183587	LETTERS																																						
		FIGS																																						
JH	183962	LETTERS																																						
		FIGS																																						
JJ	182296	LETTERS																																						
		FIGS																																						
JK	184684	LETTERS	X	S	N	R	P	V	K	E	L	Z	█	I	G	F	C	M	█	J	T	A	█	O	Y	W	U	Q	B	H		D								
		FIGS	Ⓜ	3	.	)	φ	6	+	<	:	█	∇	7	=	.	█	,	?		█	>	9	S	(	2	8						4							
JL	184687	LETTERS																																						
		FIGS																																						
JM	183963	LETTERS																																						
		FIGS																																						
JN	183964	LETTERS	.	9	█	∖		█	+	→	)	-	.	>	.	∇	6	/	=	(	0	7	█	3	N	5	>	8	2	X		4								
		FIGS	C	Y	N	I	A	M	Z	T	F	K	O	R																				D						
JP	184301	LETTERS	U	L	N	Z	M		T	F	S	I	B	█	E	V	J	P	█	W	Y	A	O	K	H	R	C		X		Q									
		FIGS	\$	11	-	3	,	4	6	7	5	5	8	1	█	4	6	9	2	█	"	?	0	1	10	7	4	2	.				3							
JR	184302	LETTERS	X	S	N	R	P	V	K	E	L	Z	█	I	G	F	C	M	█	J	T	A	█	O	Y	W	U	Q	B	H		D								
		FIGS	Ⓜ	3	.	)	φ	6	+	&	█	∇	7	=	.	█	,	?		█	>	9	S	(	2	8							4							
JS	184303	LETTERS																																						
		FIGS																																						
JT	184304	LETTERS																																						
		FIGS																																						
JU	184305	LETTERS	.	9	█	∖		█	+	→	)	-	.	>	.	∇	6	/	=	(	0	7	█	3	.	5	>	8	2	X		4								
		FIGS	C	Y	N	I	A	M	Z	T	F	K	O	R																				D						
JV	184306	LETTERS																																						
		FIGS																																						
JX	184308	LETTERS																																						
		FIGS																																						
JY	184309	LETTERS	.	9	█	∖		█	+	→	)	-	.	>	.	∇	6	/	=	(	0	7	█	3	.	5	>	8	2	X		4								
		FIGS	C	Y	N	I	A	M	Z	T	F	K	O	R																				D						
JZ	184310	LETTERS																																						
		FIGS																																						

Notes:  
 Only deviations from the basic typewheel "JA" are shown. A blank space indicates that the character for that position is identical to the basic typewheel. Solid square (█) indicates printing is suppressed in this position.

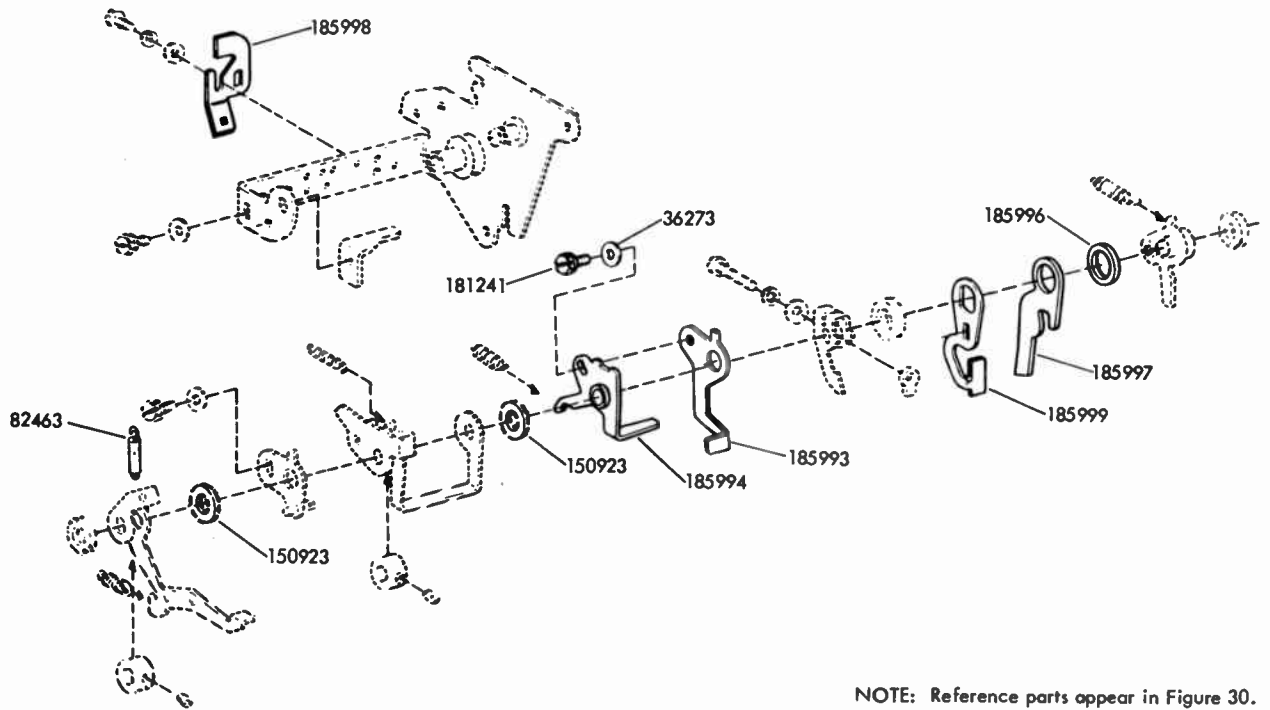
FIGURE 29. TYPEWHEEL CHART



- ① The required number of 187096 Cam Plates and mounting hardware are furnished with each kit (Specification 504105)
- ② Early design parts. See Figure 31 for later design.
- ③ These parts are factory adjusted and fixturized. Should they be loosened, remove and discard them. Then readjust.

Modification Kits to equip formout mechanism for various lengths of forms					
Form Length in Inches			① Kit No	Gear w/Gear	Spur Gear
11	5-1/2	3-2/3	183877	183391	183398
9	4-1/2	3	183878	183392	183399
7	3-1/2	2-1/3	183879	183393	183400
8	4	2-2/3	183880	183394	183401
8 1/2	—	2-5/6	183881	183395	183402
10	5	3-1/3	183882	183396	183403
6	—	—	183883	183397	183404

FIGURE 30. FORM-OUT MECHANISM — SPROCKET FEED



NOTE: Reference parts appear in Figure 30.

FIGURE 31. LATER DESIGN FORM-OUT MECHANISM - SPROCKET FEED

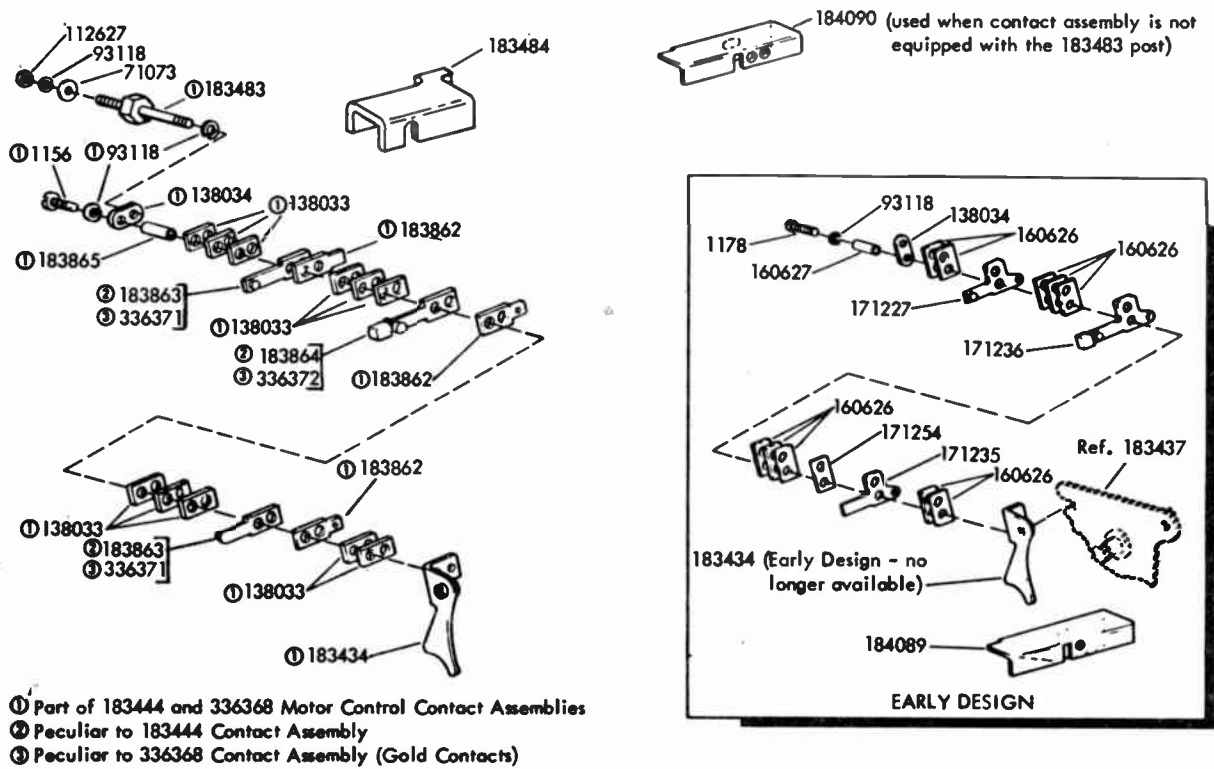
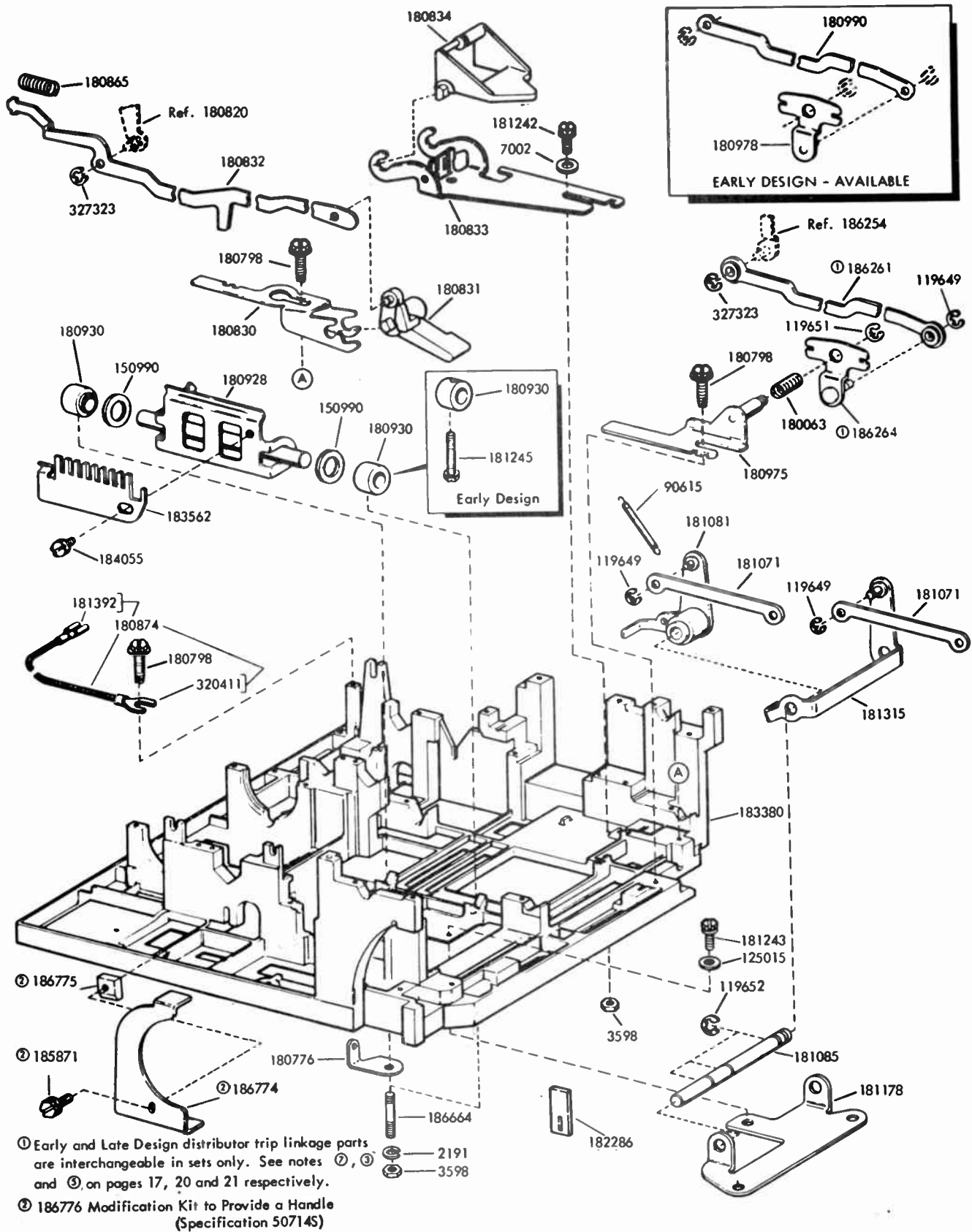


FIGURE 32. MOTOR CONTACT - SPROCKET FEED

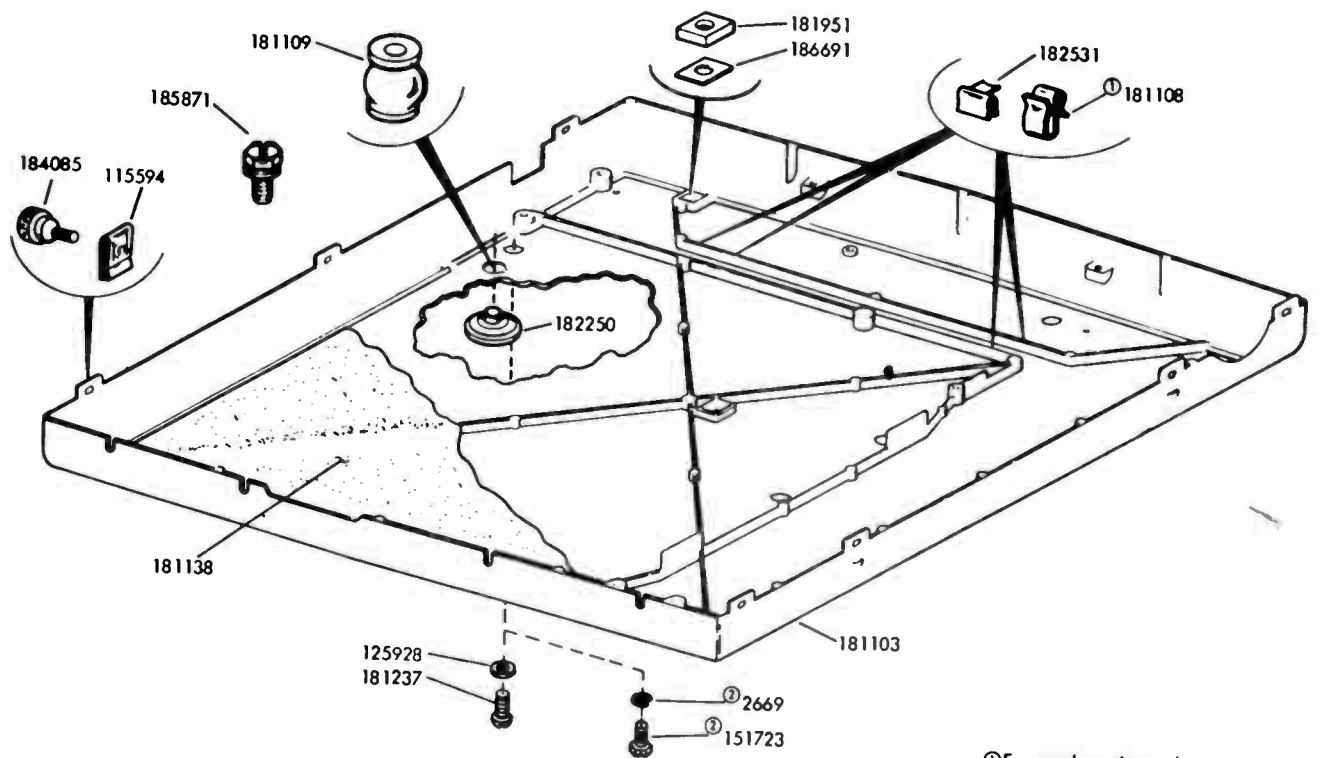


① Early and Late Design distributor trip linkage parts are interchangeable in sets only. See notes ②, ③ and ④ on pages 17, 20 and 21 respectively.

② 186776 Modification Kit to Provide a Handle (Specification 507145)

FIGURE 33. BASE





① For sand casting only  
 ② Used on early base having two pem nuts pressed in place

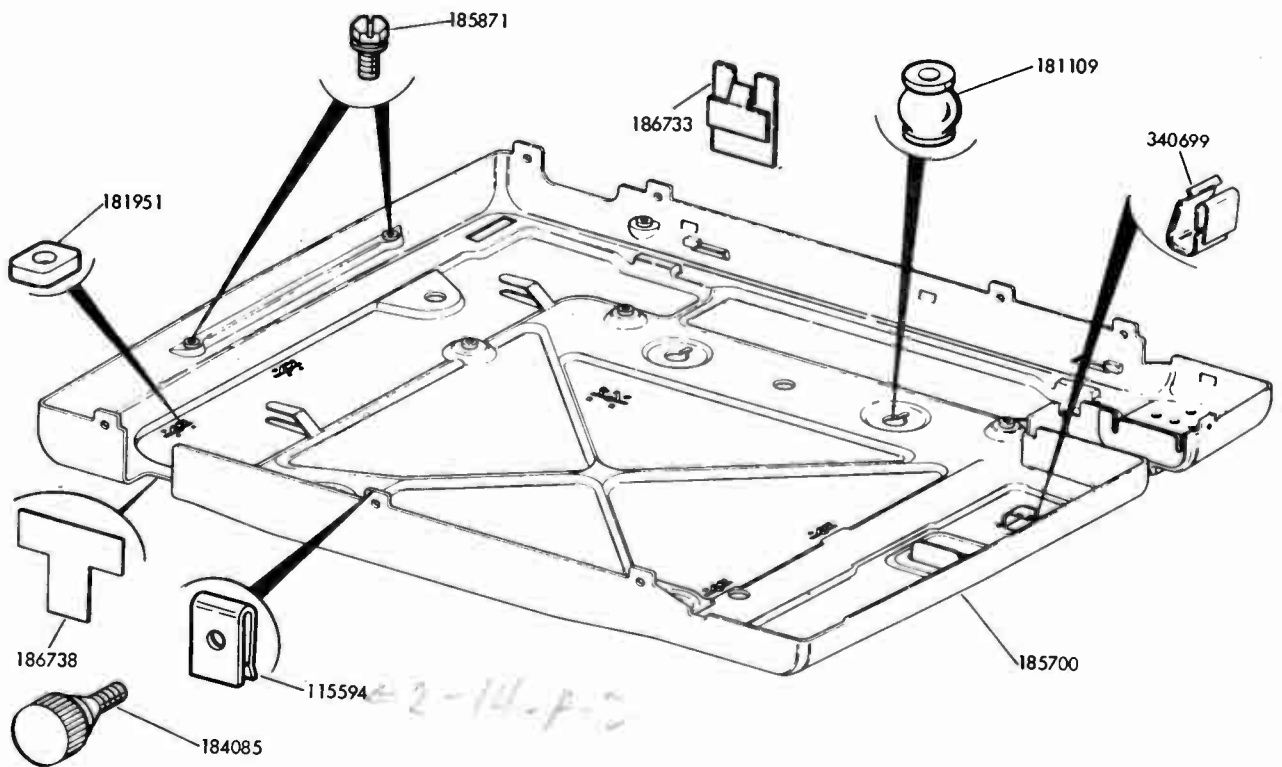


FIGURE 34. SUB BASES

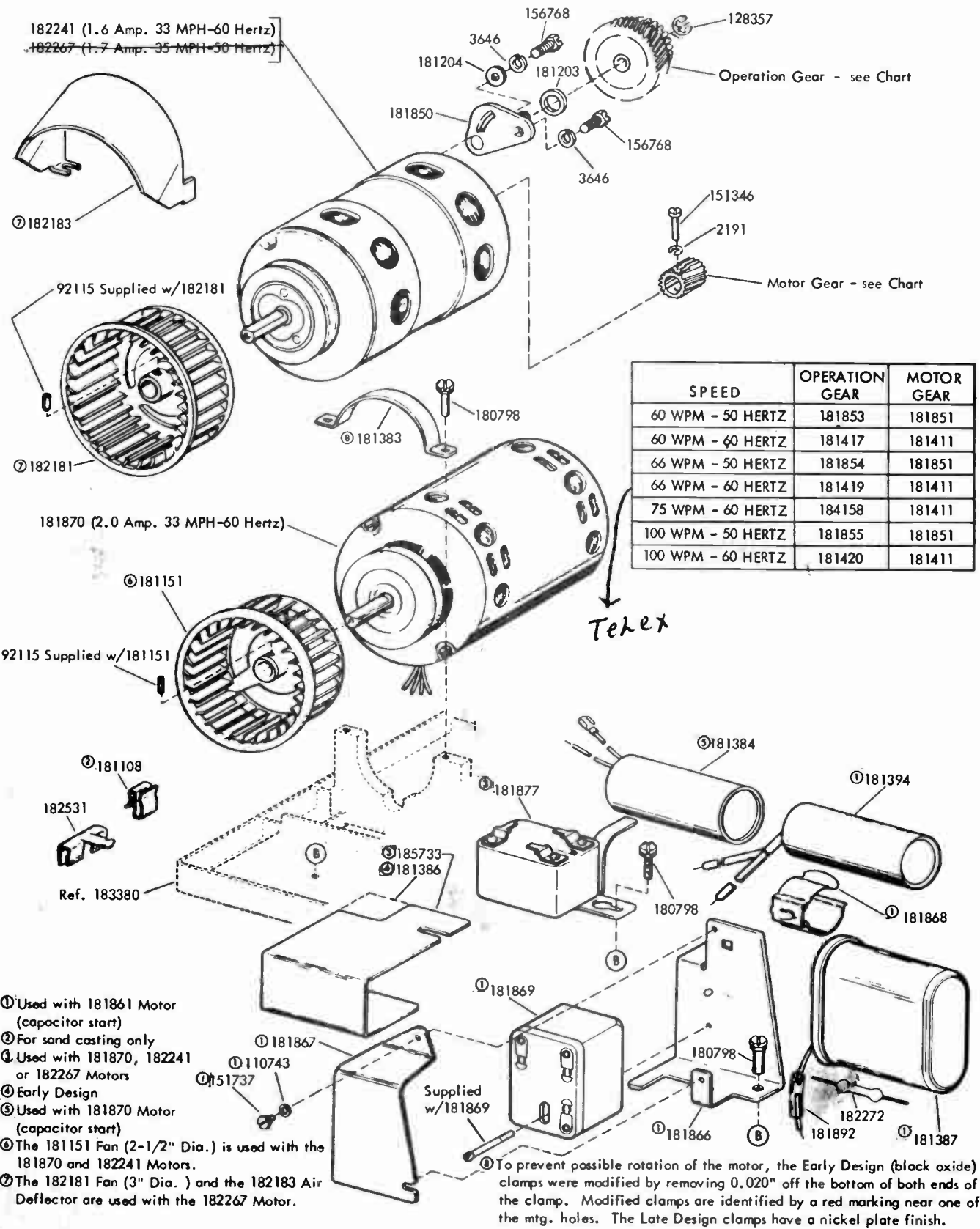
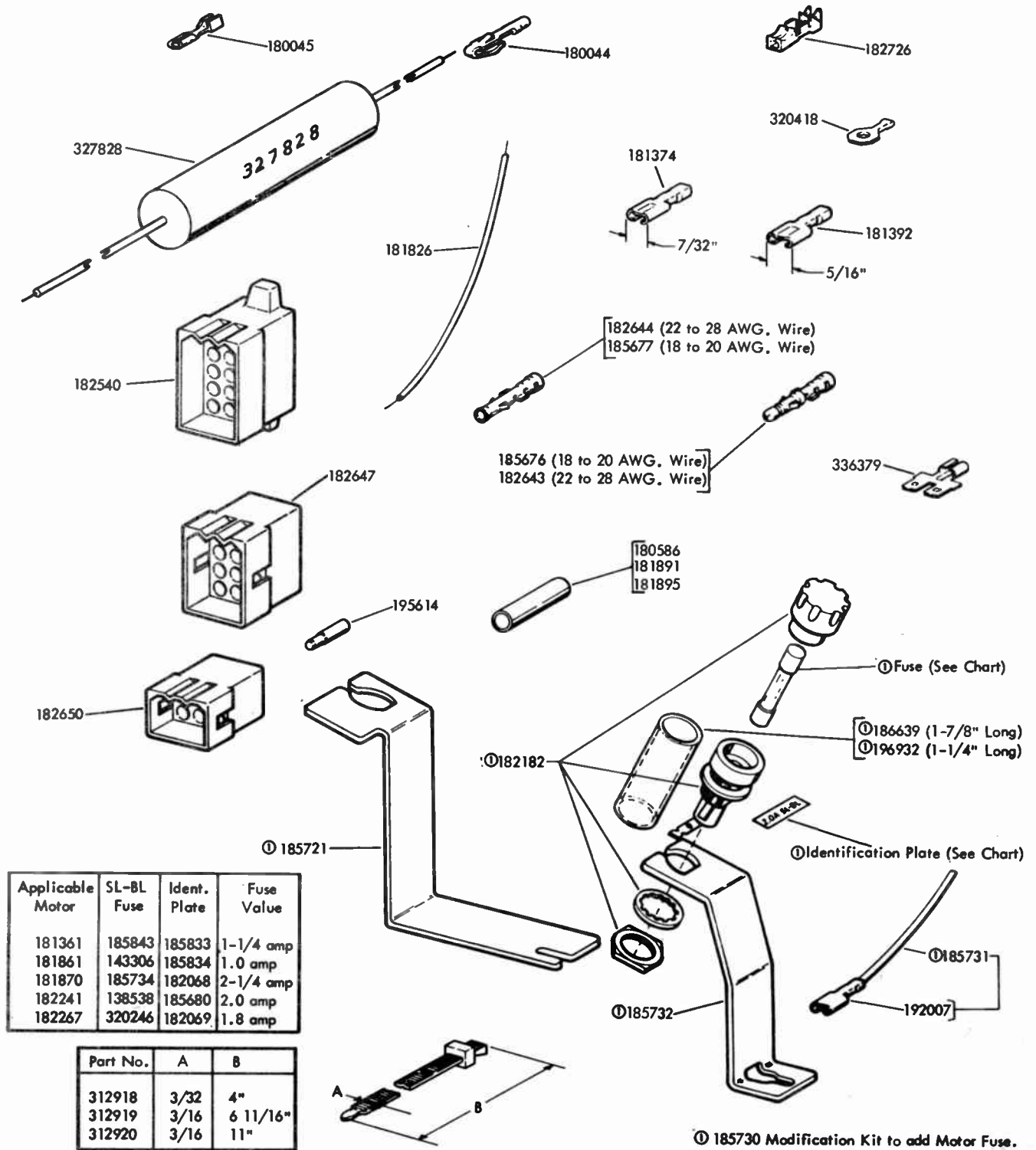


FIGURE 35. MOTORS AND ELECTRICAL COMPONENTS



① 185730 Modification Kit to add Motor Fuse. Also includes the 185733 Insulator shown in Figure 35 (Specification 504285)

FIGURE 36. CABLE COMPONENTS

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
272M	Coil, Magnet 23	71681	Spool, Ribbon 6,11	104807	Washer, Flat 2,7,11,22,28
276M	Coil, Magnet 22	72468	Spring 24	107116	Lockwasher 6
279M	Coil, Magnet 22	72509	Lockwasher, 19	108943	Bushing 14
295M	Coil, Magnet 22	72563	Washer, Felt 28	110435	Nut, 4-40 Hex 2,26
300M	Coil, Magnet 22	74547	Collar 14	110743	Lockwasher 2,4,6,7,9,10,11, 14,16,21,22,23,24,28,32
1036	Nut, 6-40 Hex 2	74700	Spring 3,24	111410	Washer, Flat 9,20
1156	Screw, 2-56 x 9/16 Fil 29	74701	Spring 10,13	111640	Screw, 2-56 x 7/32 Fil 3
1164	Screw, 2-56 x 3/16 Fil 5	74722	Washer, Flat 4	112620	Screw, 4-40 x 1/2 Hex 17
1178	Screw, 2-56 x 7/16 Fil 29	74882	Spring 23	112626	Nut, 10-32 Hex 6
1210	Screw, 2-56 x 5/8 Fil 5	76422	Spring 14,21,23	112627	Nut, 2-56 Hex 29
2034	Washer, Flat 6,10,21,24	76461	Washer, Flat 2,22,26	112630	Spring 3
2167	Ball, Bearing 9	78103	Screw, 6-40 x 1-3/16 Hex 22	112634	Spring 6
2191	Lockwasher 2,4,5,7,9,10,12,13, 17,20,23,30,32	80273	Washer, Felt 13	114107	Spring 10
2605	Spring 11	80758	Spring 3	115594	Nut, Speed 31
2669	Lockwasher 6,31	80945	Spring 14	119421	Washer, Flat 2,5
3598	Nut, 6-40 Hex 2,4,6,7,8, 9,10,11,15,17,18,19,20, 21,22,23,26,30	81726	Terminal 14	119648	Ring, Retaining 8,10,11, 20,23,28
3599	Nut, 4-40 Hex 4,6,7,9,11, 14,16,21,26	81731	Spring 8,21	119649	Ring, Retaining 3,4,7,8, 9,10,11,14,16,17,26,30
3606	Nut, 6-40 Hex 2,8,20	82463	Spring 29	119650	Ring, Retaining 3
3608	Spring 6	82532	Screw, 6-40 Shoulder 26	119651	Ring, Retaining 2,3,4,6, 7,8,10,11,12,13,24,28,30
3646	Lockwasher 2,5,32	82538	Screw, 6-40 x 5/16 Hex 22	119652	Ring, Retaining 4,8,10, 20,26,30
3864	Spring 22	82548	Insulator, .062" Thk 14	119653	Ring, Retaining 6,21
4703	Spring 10	83877	Spring 10,18	119654	Ring, Retaining 6,21
4708	Spring 28	84226	Spring 3,21	121018	Nut, 4-40 Hex 9
5599	Nut, 8-32 Hex 22	84575	Spring 3,8,10	121100	Spring 18
7001	Washer, Flat 20	86079	Washer, Felt 11	121630	Washer, Flat 22
7002	Washer, Flat 2,3,4,5,6,7, 8,9,10,14,16,18,19,20, 21,23,28,30	86283	Spring 16	121923	Spring 26
7655	Spring 24	87398	Washer, Flat 4	124177	Lockwasher 2,3,4,7,8,9, 10,11,15,16,17,18,19,20, 21,22,26,28
8330	Washer, Flat 14,28	90096	Washer, Insulating 20	124681	Setscrew, 6-40 6,13,14, 17,28
31636	Spring 5,21	90361	Washer, Felt 24	125011	Washer, Flat 7,16,28
33765	Washer, Flat 3	90432	Washer, Flat 10	125015	Washer, Flat 15,17,18,19, 30
36273	Washer, Flat 13,24,28, 29	90615	Spring 3,30	125124	Screw, 4-40 Shoulder 14
36351	Spring 15	90790	Washer, Flat 10,16,17,26	125181	Screw, 4-40 Shoulder 17
36463	Spring 22	91120	Spring 3	125252	Spring 16
41732	Plate, Clamp 14,22	92115	Screw, 8-32 Set 32	125802	Washer, Flat 16
42661	Spring 10	92260	Lockwasher 12,13	125928	Washer, Flat 31
44048	Washer, Flat 3,17,21	92527	Lockwasher 22	128357	Ring, Retaining 22,28,32
45027	Spring 8	93117	Lockwasher 3,5	138033	Insulator, .031" Thk 5, 29
45104	Spring 28	93118	Lockwasher 5,29	138034	Plate, Clamp 5,29
47024	Washer, Flat 11	93356	Washer, Felt 28	138538	Fuse, SL-BL 2 Amp 33
49420	Spring 16	93984	Lockwasher 20		
70388	Spring 10	93985	Lockwasher 2,3,5,17		
71073	Washer, Flat 5,29	97117	Ribbon w/Spool, Red-Black 11		
		98718	Washer, Flat 20		
		100759	Screw, 4-40 x 3/16 Flat 12		
		101386	Spring 4,18,22,24		
		104752	Washer, Flat 22,23		

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
143306	Fuse, SL-BL 1 Amp 33	153817	Screw, 4-40 x 3/8 Hex 4, 6,22,23	180479	Bracket 8,26
150026	Lever, Shoe Release 12, 13	153839	Screw, 6-40 x 5/8 Hex 12,13	180480	Arm w/Stud 9
150029	Wick, Felt 12,13,19,20	155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 22,23	180482	Arm w/Shaft 7
150040	Screw, 6-40 x 5/8 Fil 14,19	156169	Washer, Felt 22	180483	Arm, Stop 8
150043	Shoe, Secondary Clutch 12,13,19,20	156509	Washer, Flat 10	180484	Arm, Stop 8
150044	Shoe, Primary Clutch 12, 13,19,20	156536	Screw, 4-40 x 1/8 Fil 9	180485	Arm w/Spring 9
150241	Spring 12,13,19,20	156558	Washer, Felt 10	180486	Link 8
150830	Bushing, Shoulder 13	156572	Washer, Felt 9,11	180487	Stud 9
150841	Bearing 13	156768	Screw, 8-32 x 9/32 Hex 32	180488	Shaft 7
150923	Washer, Felt 29	158186	Screw, 4-40 x 7/32 Fil 4	180489	Lever w/Pin 6
150930	Washer, Felt 12,13,17	158189	Washer, Felt 10	180491	Shaft 9
150990	Washer, Felt 30	158772	Screw, 4-40 x 5/8 Hex 22	180492	Arm 8
151152	Screw, 4-40 x 3/16 Hex 7, 9,10,11,22,23,28	160455	Spring 23	180493	Lever, Trip 8
151346	Screw, 6-40 x 3/8 Fil 32	160626	Insulator, .031" Thk 29	180495	Link, Ribbon 7
151397	Spring 18	160627	Bushing, Insulating 29	180496	Arm, Stop 8
151413	Washer, Flat 10	161346	Washer, Felt 10	180497	Spring, Print Hammer 7
151603	Spacer 18	161347	Washer, Felt 17	180498	Bracket 6
151610	Washer, Flat 20,28	162573	Retainer 13	180500	Frame 6,7,8,9
151618	Screw, 6-40 x 7/16 Fil 12,13	162886	Screw, 4-40 x 7/32 Hex 28	180501	Arm w/Stud 7,8
151629	Nut, 6-40 Lug 6,14,28	164958	Screw, 4-40 x 1/2 Hex 20	180502	Head, Print Hammer 7
151630	Screw, 6-40 x 1/4 Hex 9, 10,18,21,26	171227	Spring, Contact 29	180503	Shaft w/Spacer 7,9
151631	Screw, 6-40 x 5/16 Hex 3, 17	171235	Spring, Contact 29	180505	Guideplate, Left 7
151640	Lever, Shoe Release 20	171236	Spring, Contact 29	180506	Guideplate, Right 7
151693	Screw, 6-40 x 9/16 Fil 7,28	171254	Insulator, .015" Thk 29	180508	Stud, Eccentric 8,11
151722	Screw, 6-40 x 3/16 Hex 2,4,5	171259	Spring 23	180509	Slide, No. 3 Pulse 8
151723	Screw, 10-32 x 3/8 Hex 31	172993	Spring 28	180510	Slide, Common 8
151728	Spring 12,13	173807	Setscrew, 6-40 4	180511	Slide, No. 1 and No. 2 Pulse 8
151733	Screw, 4-40 x 9/16 Fil 14	179145	Bushing, Insulating 22	180512	Slide w/Plates 8
151737	Screw, 4-40 x 11/64 Hex 6,11,32	180044	Terminal, Tab Type 23,33	180513	Slide, No. 5 Pulse 8
151880	Nut, 4-40 Hex 9,10,11,22,23	180045	Terminal, Tab Type 23,33	180514	Slide, No. 4 Pulse 8
152129	Spring 23	180063	Spring, Compression 30	180517	Latchlever 8
152425	Post, Spring 18	180460	Typewheel, JA 27	180518	Plate 7
152426	Nut, 6-40 Self-Locking 18	180463	Post, Bail Pivot 10	180519	Rack 7
152441	Washer, Flat 4,10	180464	Pulley, Carriage Return Spring 10	180520	Arm 8
152890	Washer, Flat 22	180466	Ring, Retaining 9	180521	Slide, Print Suppression 8
152893	Screw, 4-40 x 1/4 Hex 7, 16,22,24,28	180467	Bearing, Ball 9	180522	Bushing 8
153267	Washer, Felt 6,11	180468	Bearing, Ball 9	180526	Bail w/Stud 9
153537	Screw, 6-40 x 9/32 Hex 28	180469	Link 8,9	180528	Lever w/Hub 9
153799	Screw, 4-40 x 21/64 Hex 6,16	180470	Roller 8	180534	Guideplate 7
		180471	Block 9	180537	Link 8,11
		180473	Shaft 9	180538	Shaft 8
		180474	Stud 9	180539	Bail w/Stud 8,11
		180475	Bushing 9	180540	Bail, Print Hammer 7,8
		180476	Screw, 6-40 Spl 8	180541	Plate w/Posts 6,7
		180477	Bracket 8	180543	Base, Ribbon Unit 6,11
		180478	Guide, Nylon 8	180544	Bail, Drive 10
				180545	Bracket 10

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
180546	Post 10	180658	Shaft, Guide 18	180776	Bracket 30
180547	Stud, Eccentric 6	180661	Bracket 19	180777	Arm, Drive 17
180548	Plate 7	180664	Scale, Range 18	180779	Bracket 16
180549	Bracket 7	180667	Plate w/Bushing 19	180780	Blade 24
180552	Post 7	180668	Follower, Cam 19	180781	Hub 16,24
180553	Spring 9	180669	Locklever, Spacing 18	180782	Shaft, Pivot 24
180554	Bushing 7	180671	Lever, Start 18	180783	Casting, Function 16
180555	Spring 7	180672	Bail 18	180788	Plate, Rear Rail 16,26
180556	Plate, Gauge 9	180673	Plate, Front 18,19	180789	Roller 16
180557	Lever w/Stud 8	180676	Nut, No. 6 Speed 18,20	180791	Arm w/Stud 16
180558	Collar 8	180677	Arm, Trip 19	180792	Pawl, Function 16
180559	Shaft 8	180678	Plate, Spring 18	180793	Lever 25
180562	Link, Left Ribbon 7	180682	Upstop 10	180794	Lever, Line Feed 24
180563	Stud, Eccentric 7	180684	Latchlever, 19	180795	Bracket, Spring 24
180564	Bracket, Lock 7	180685	Nut, 6-40 Spl 19	180796	Clamp 16
180566	Hub w/Pinion 9	180688	Core, Magnet 18	180797	Clamp 10,17,24
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185871	Screw w/Lockwasher, 8-32 x 3/8 Hex 30,31	186271	Shaft, Distributor 20	187077	Link w/Post 3
185877	Platen 2,26	186400	Clutch Assembly 19	187078	Upstop 3
185920	Knob Assembly 4	186412	Arm 17	187096	Plate 28
185921	Extension, Knob 4	186413	Arm 17	187097	Stud 4
185922	Knob, Platen 4	186432	Guideplate 7	187098	Wheel, Idler 4
185923	Shaft 4	186442	Piston 9	187099	Eccentric 4
185924	Knob, Disengaging 4	186443	Bumper 9	187100	Washer, Flat 4
185925	Washer, Flat 4	186446	Lever, Blocking 18	187103	Bracket 16
185926	Ring, Retaining 4	186447	Lever, Blocking 18	187126	Stud 20
185927	Clip, Spring 4	186468	Lever 25	187206	Set of Parts 11
185945	Insulator 5	186469	Lever, Function 25	187251	Plate 3
185947	Insert, Knob 4	186536	Set of Parts 9	188059	Plate 3
185968	Latch 26	186575	Arm 12,13,17	188328	Arm w/Hub 10
185969	Hub 26	186576	Arm 17	188627	Bail w/Stud 11
185970	Lever w/Post 26	186604	Bracket 16	188628	Lever, Stop 11
185971	Modification Kit 1,26	186606	Set of Parts 4	188827	Lever 11
185975	Guide 6,11	186639	Sleeve, 7/16 ID x 1-7/8" Insulating 33	188828	Bracket 11
185986	Post 8,26	186642	Knob 19	188829	Lever, Stop 11
185987	Roller 8,26	186664	Post 30	189019	Bracket 3
185989	Collar 4	186668	Sleeve 22	189023	Bellcrank 3
185990	Platen 4	186669	Spring 19,25	189024	Plate w/Stud 3
185993	Arm, Latch 29	186691	Insert 31	192007	Terminal, Tab Type 33
185994	Arm w/Hub 29	186692	Post, Eccentric 10	194956	Spring 13
		186693	Lever 10	194987	Screw, 8-32 x 3/8 Hex 2, 3,5,17
		186694	Lever 10		

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
195057	Guard, Contact Spring 14	301477	Filter, 10 Leads 4	327828	Filter w/Network 33
195614	Pin, Key 33	312918	Strap, Cable 33	336368	Contact Assembly 29
196932	Sleeve, 7/16 ID x 1-1/4" Lg Insulating 33	312919	Strap, Cable 33	336370	Contact Assembly 5
198670	Screw w/Lockwasher, 6-40 x 5/16 Hex 2,3,4,5	312920	Strap, Cable 33	336371	Spring, Contact 5,29
199440	Screw, 6-40 x 5/8 Fil 12, 13	320246	Fuse, SL-BL 1.8 Amp 33	336372	Spring, Contact 5,29
		320411	Terminal, Spade Type 30	336379	Adapter 33
		320418	Terminal, Ring Type 33	340699	Clip, Cable 31
		327323	Ring, Retaining 17,21,30		

### 32 CALL CONTROL UNIT (UCC)

#### PARTS

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
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2	Base Plate Components - for use with Touch Tone or Card Dialing	3	12	181815 and 184048 Selector Magnet Drivers	13
3	Electrical Components - for use with Rotary Dial	4	13	Alarms and Speaker	14
4	Electrical Components - for use with Rotary Dial (Continued)	5	14	182087 Polar Adapter Assembly	15
5	Base Plate and Electrical Components - for DC Signal Private Line	6	15	182087 and 186233 Polar Adapter Assemblies	16
6	Electrical Components - for Computer Control Private Line	7	16	193489 (with Dialer) and 195926 (less Dialer) Modification Kits	17
7	Base Plate Components - for the Basic Set	8	17	193486 (With Dialer) and 195924 (Less Dialer) Modification Kits	17
8	Base Plate Components - for the Basic Set (Continued)	9	18	Key Assemblies	18
9	Base Plate Components - for use with Selective Calling	10	19	Power Cords and Jumpers	19
10	Base Plate Components - for use with Selective Calling (Continued)	11	20	Cable Components	20
			21	Line Control Components	21
			22	Line Control Components (Continued)	22
			23	Numerical Index	23

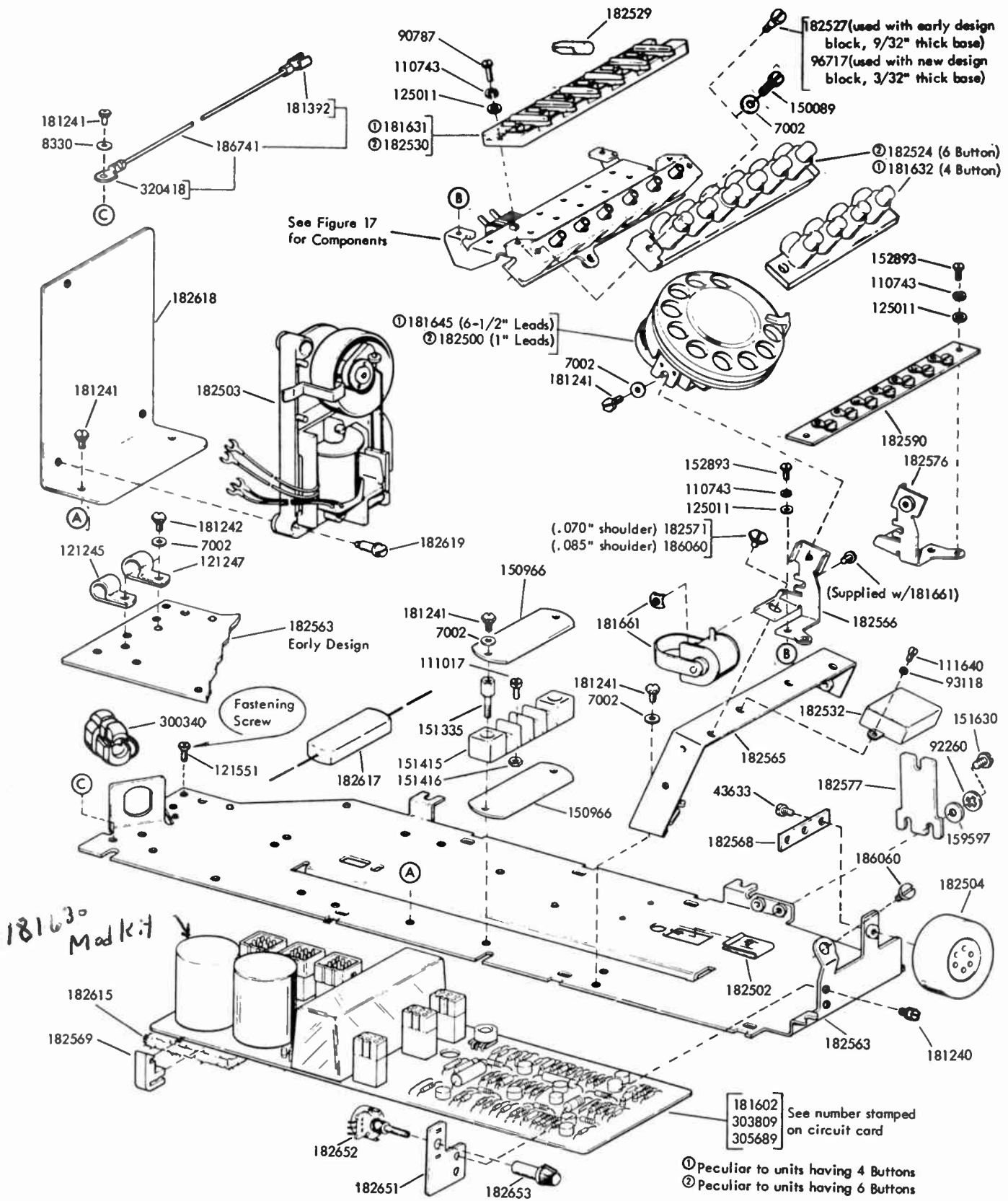


FIGURE 1. BASE PLATE COMPONENTS-FOR USE WITH ROTARY DIAL

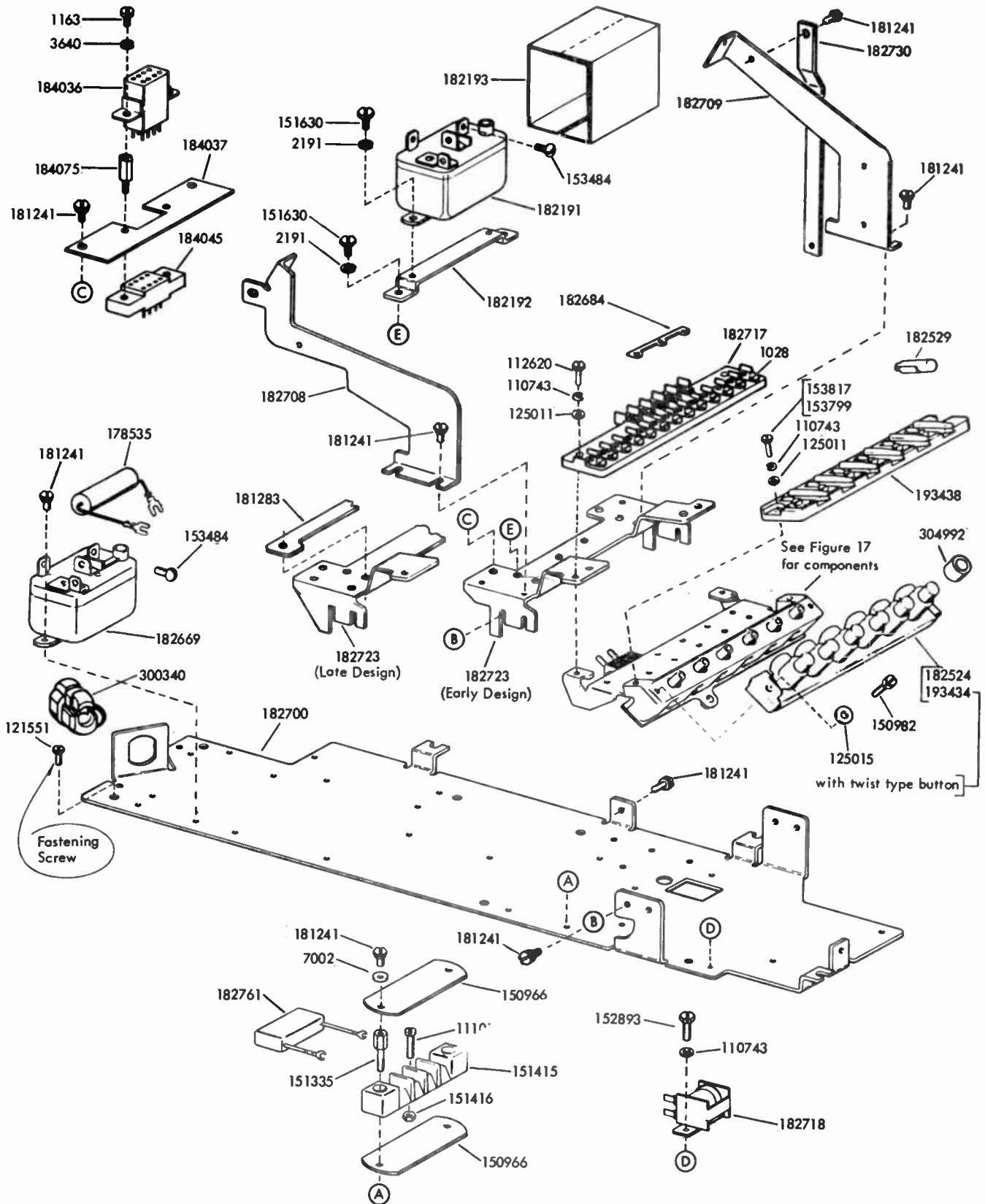


FIGURE 2. BASE PLATE COMPONENTS--FOR USE WITH TOUCH TONE OR CARD DIALING

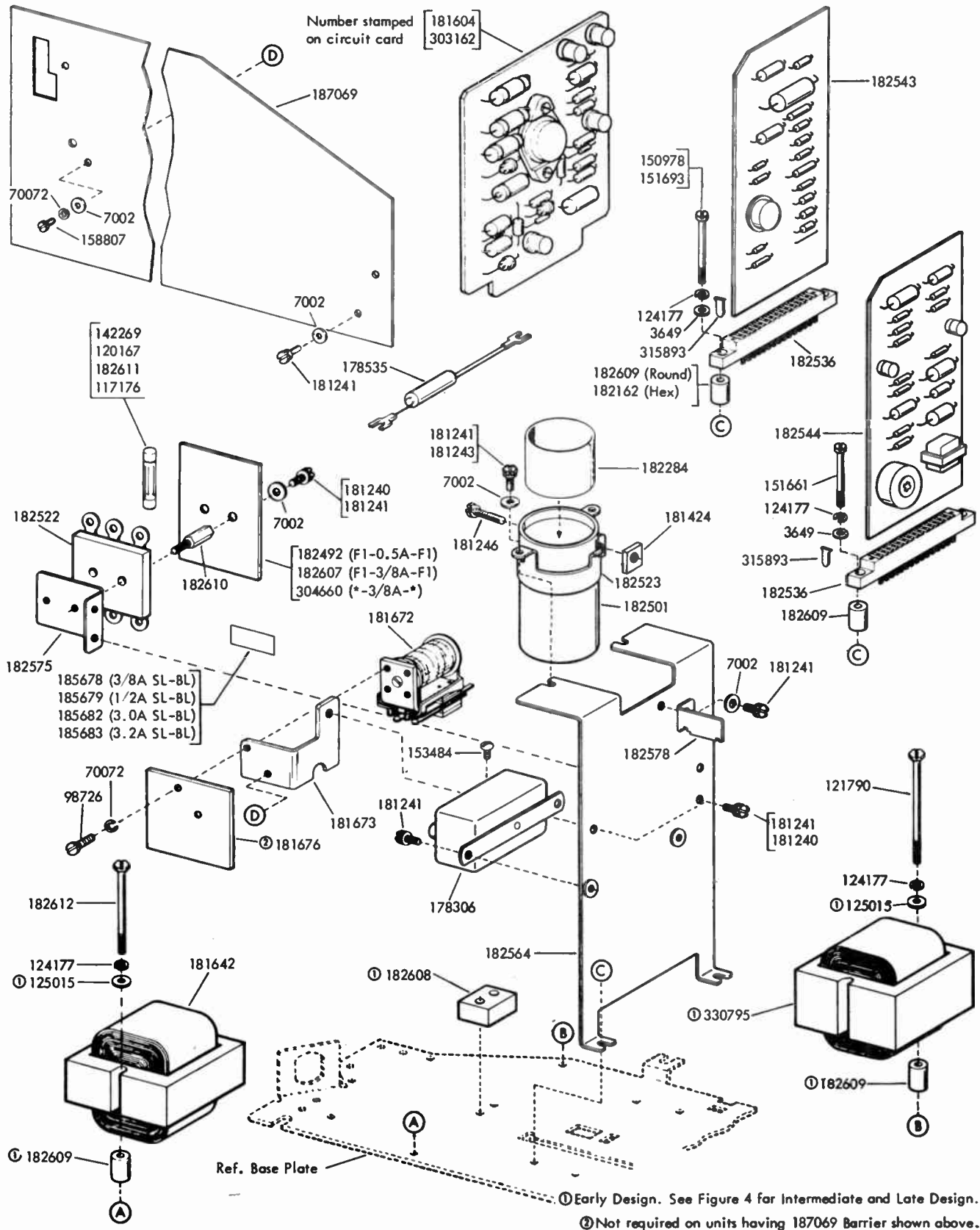
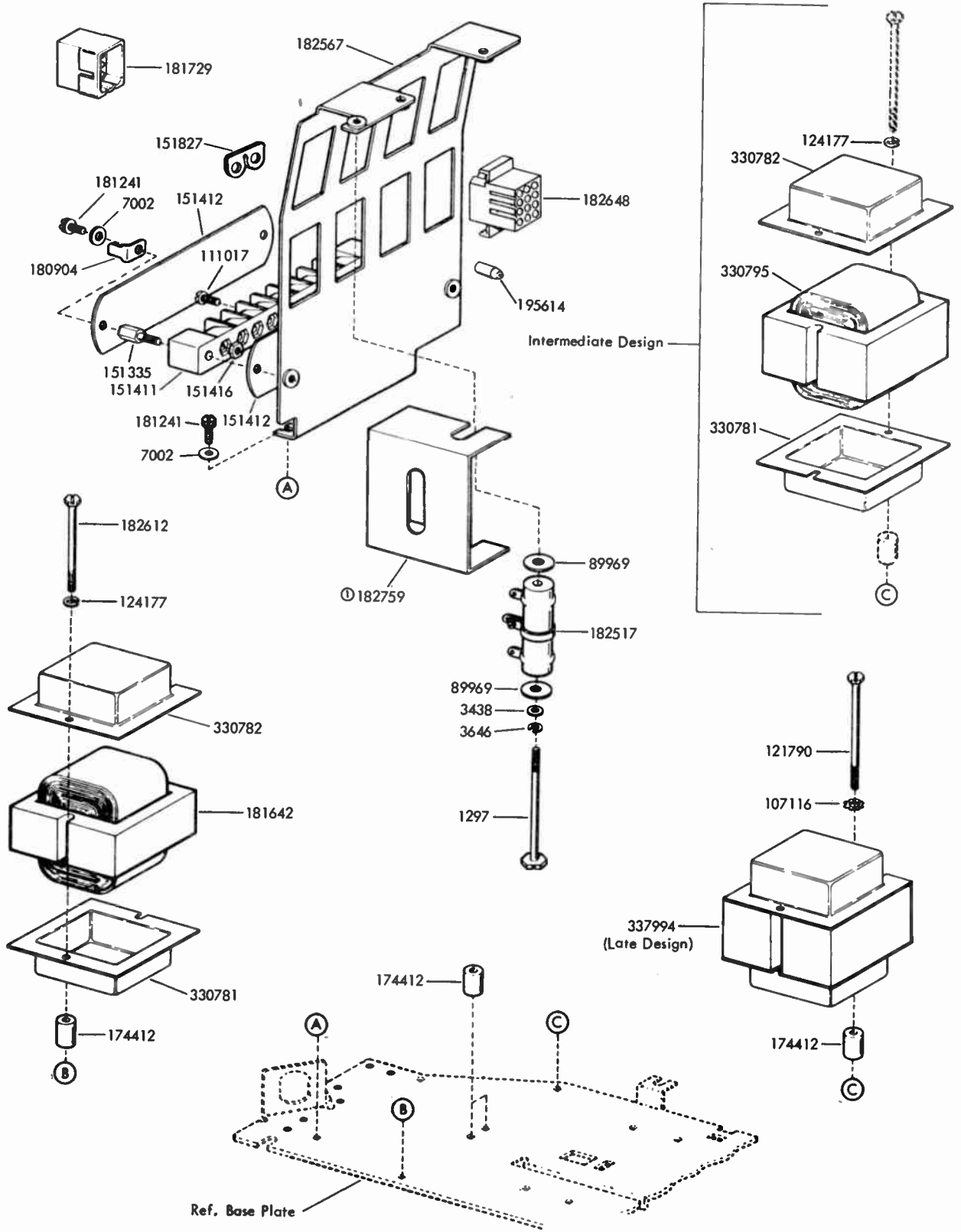


FIGURE 3. ELECTRICAL COMPONENTS - FOR USE WITH ROTARY DIAL





ⓐ Not required on units having 187069 Barrier shown in Figure 3.

FIGURE 4. ELECTRICAL COMPONENTS - FOR USE WITH ROTARY DIAL (CONTINUED)

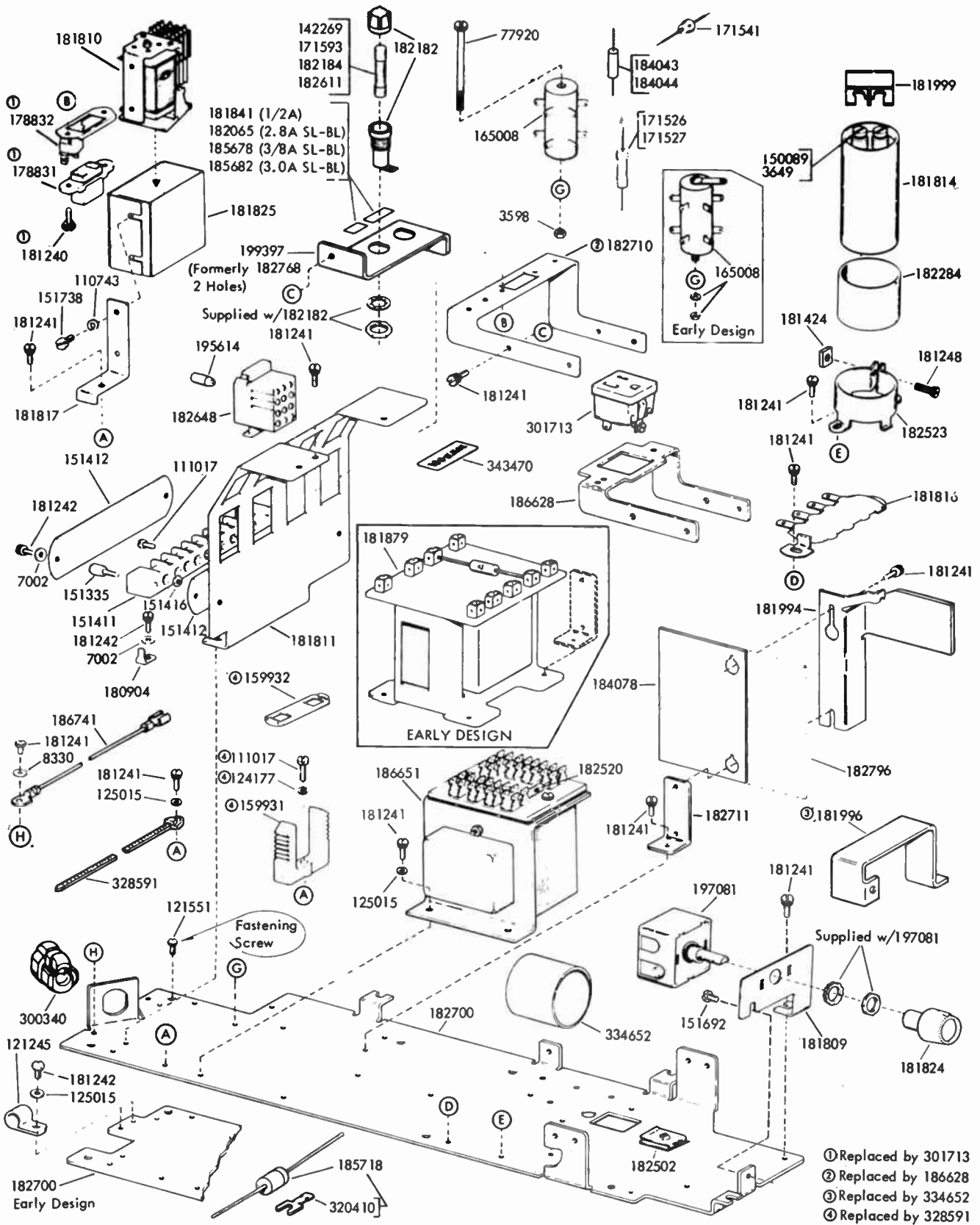


FIGURE 5. BASE PLATE AND ELECTRICAL COMPONENTS-FOR DC SIGNAL PRIVATE LINE

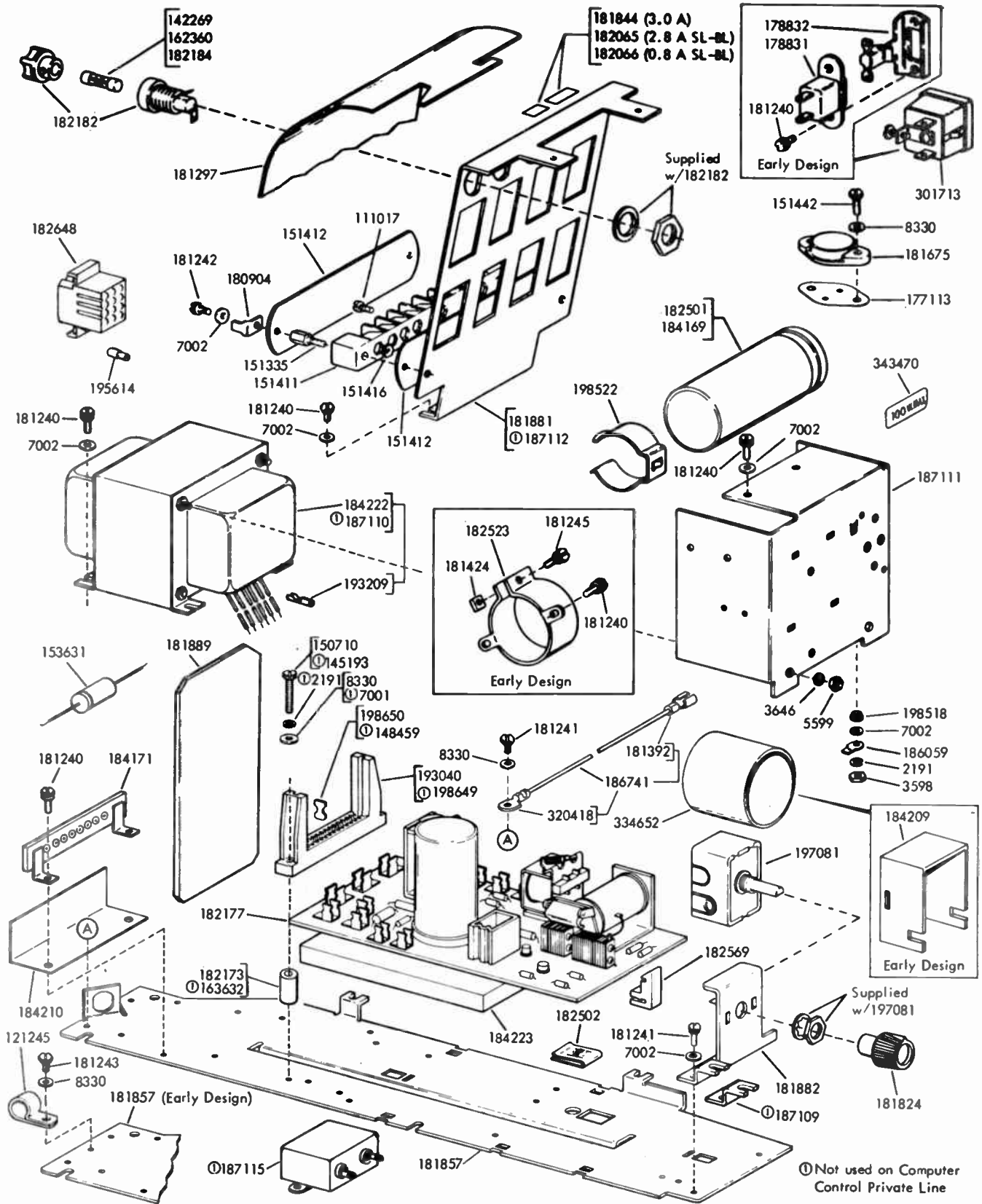
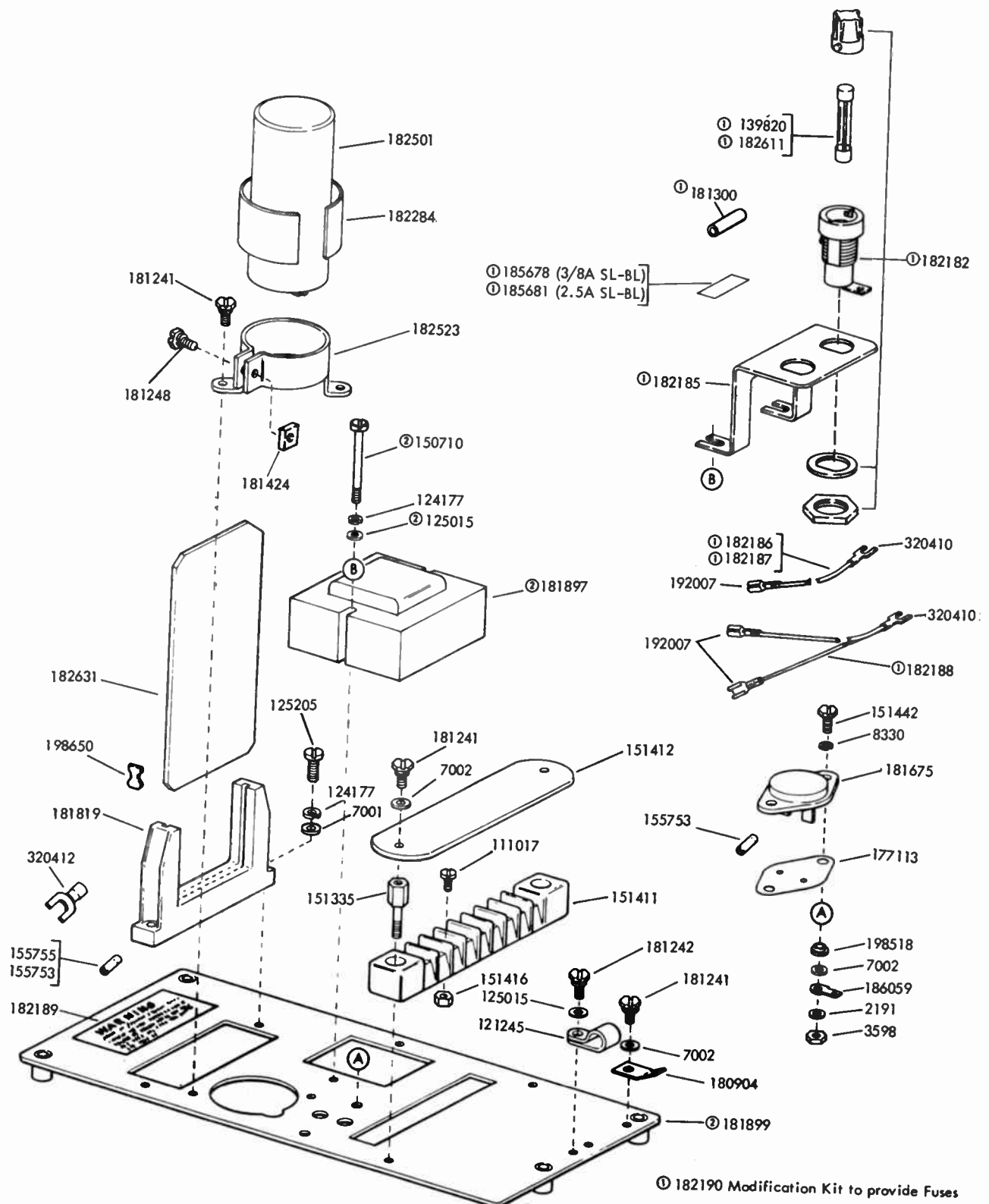
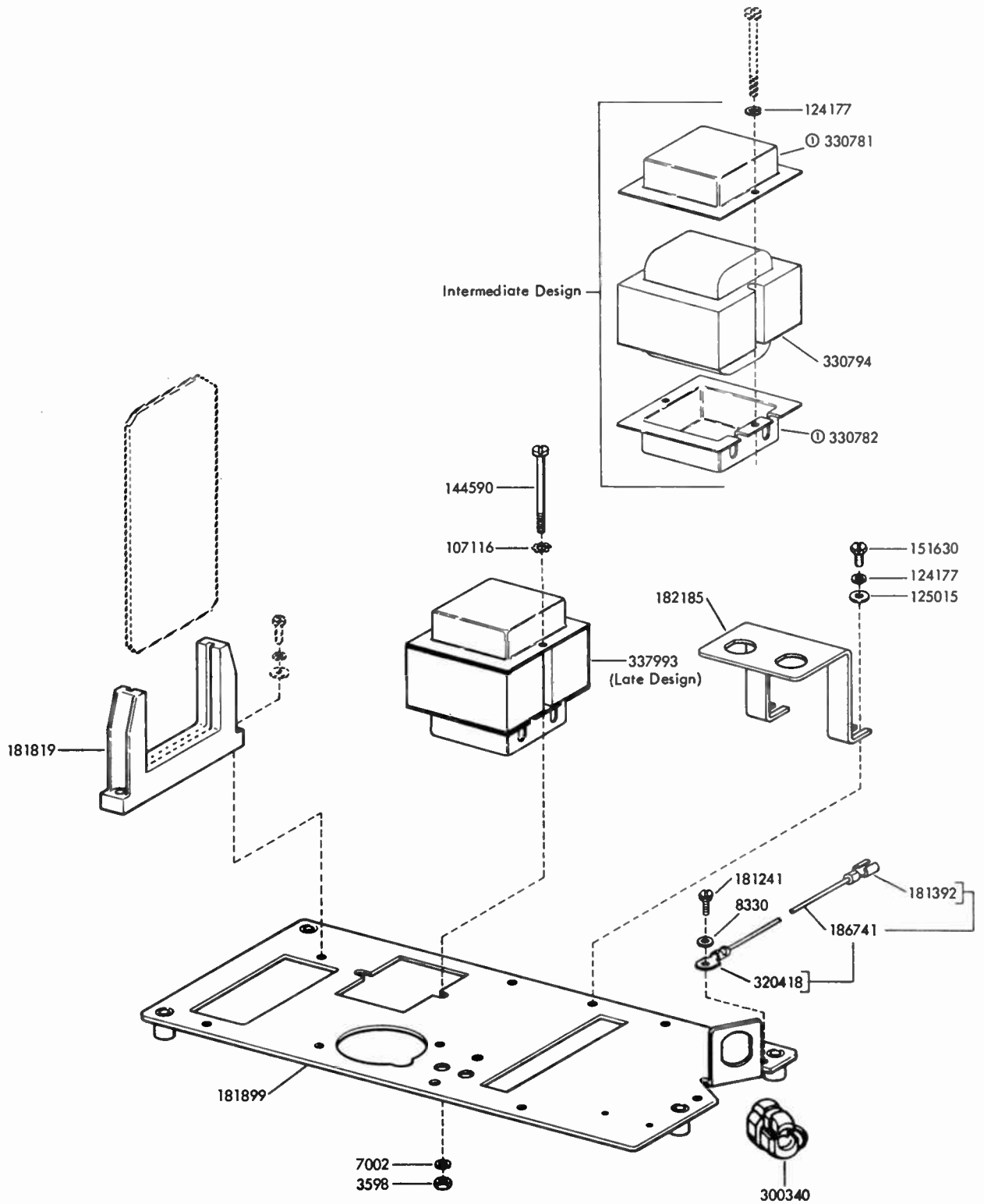


FIGURE 6. ELECTRICAL COMPONENTS-FOR COMPUTER CONTROL PRIVATE LINE



Note: This Figure depicts the Early Design assembly. For Intermediate and Late Design assembly changes, see Figure 8.

FIGURE 7. BASE PLATE COMPONENTS-FOR THE BASIC SET



Note: This Figure depicts the Intermediate and Late Design assembly changes. For Early Design assembly, see Figure 7.

① Transformer shields cannot be used with the Early Design 181899 plate, and they are not recommended for use with the Early Design 181897 Transformer. (See Figure 7)

FIGURE 8. BASE PLATE COMPONENTS-FOR THE BASIC SET (CONTINUED)

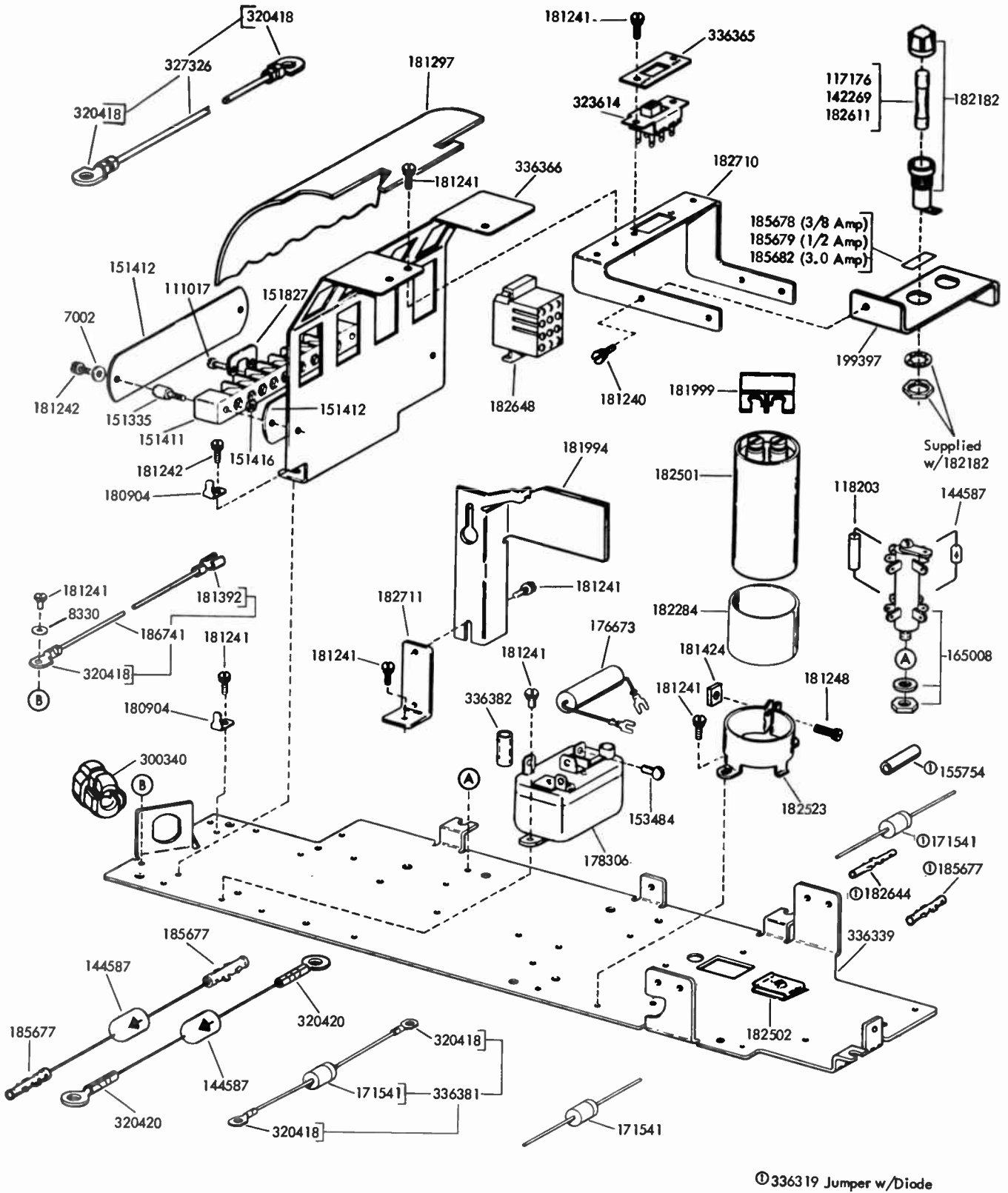


FIGURE 9. BASE PLATE COMPONENTS - FOR USE WITH SELECTIVE CALLING

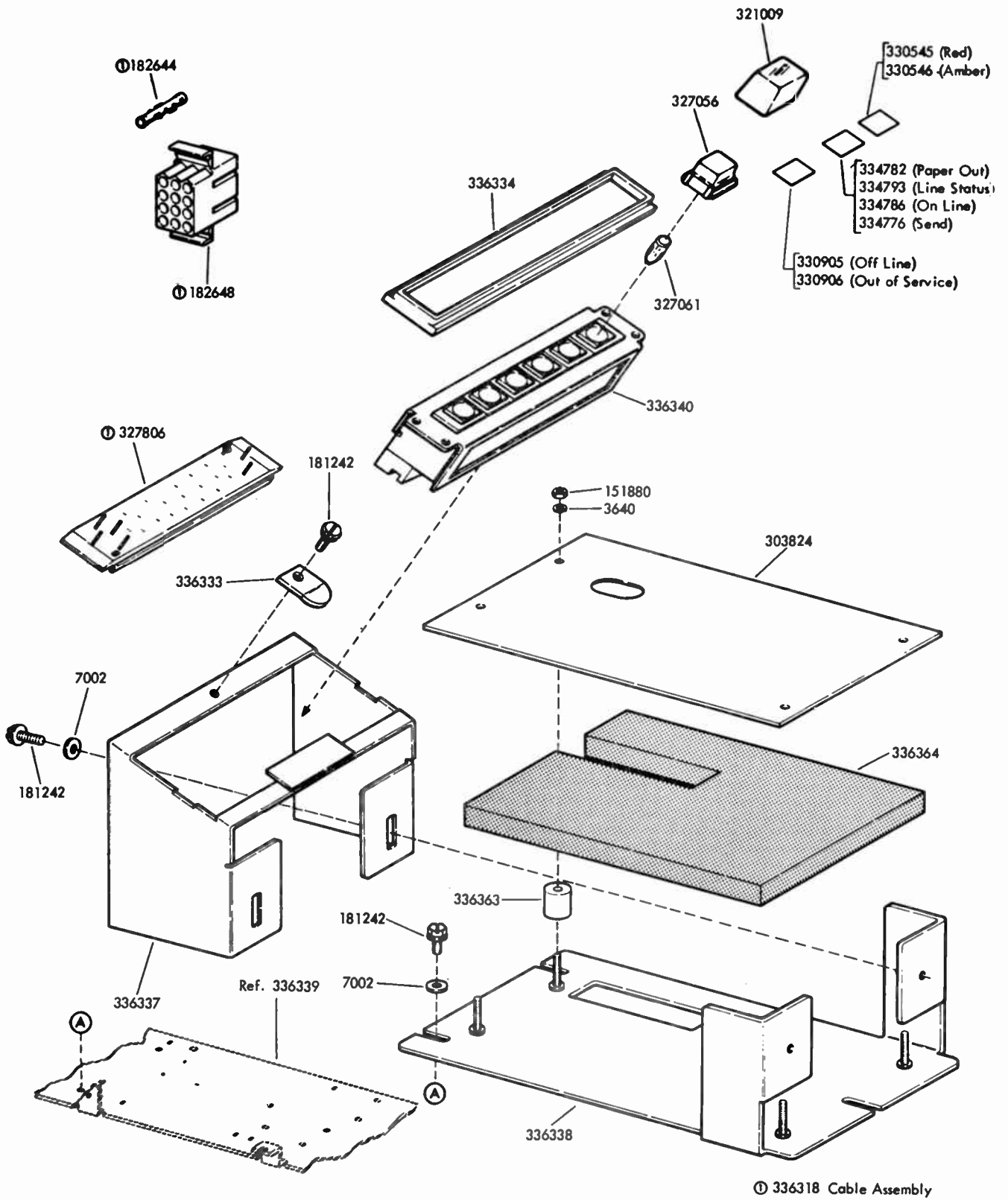


FIGURE 10. BASE PLATE COMPONENTS - FOR USE WITH SELECTIVE CALLING (Continued)

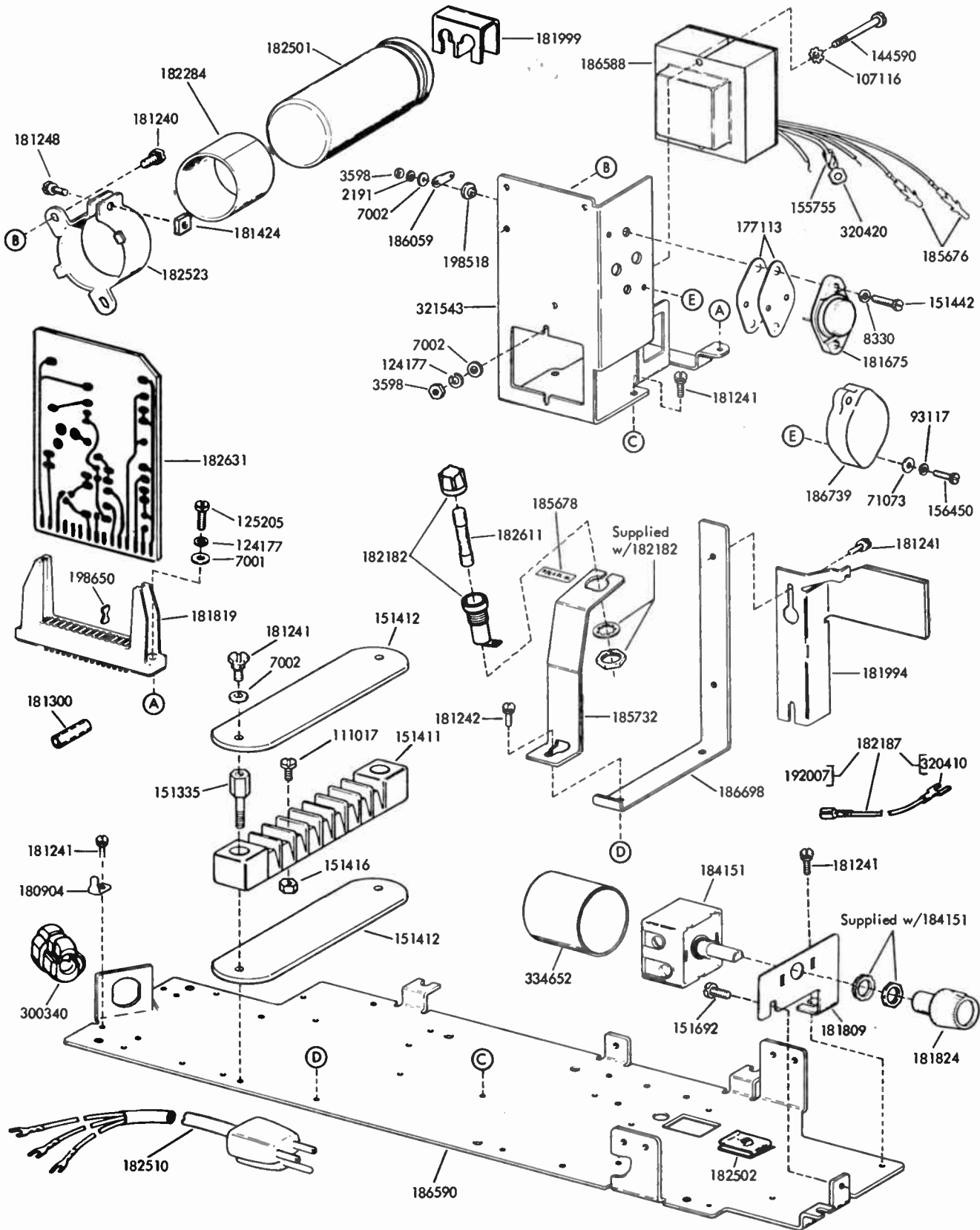
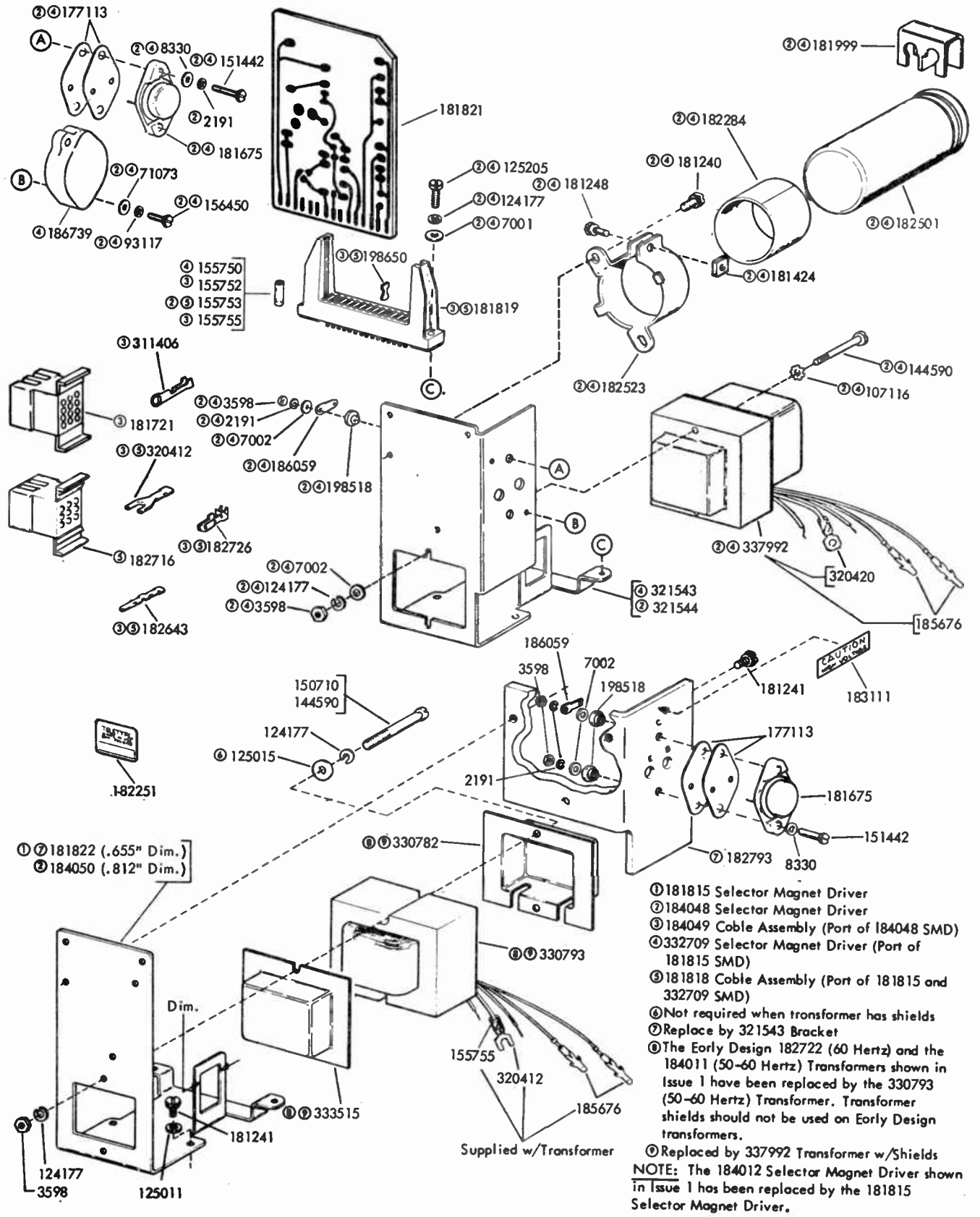


FIGURE 11. SELECTOR MAGNET DRIVER AND ELECTRICAL COMPONENTS





- ① 181815 Selector Magnet Driver
  - ② 184048 Selector Magnet Driver
  - ③ 184049 Cable Assembly (Port of 184048 SMD)
  - ④ 332709 Selector Magnet Driver (Port of 181815 SMD)
  - ⑤ 181818 Cable Assembly (Port of 181815 and 332709 SMD)
  - ⑥ Not required when transformer has shields
  - ⑦ Replace by 321543 Bracket
  - ⑧ The Early Design 182722 (60 Hertz) and the 184011 (50-60 Hertz) Transformers shown in Issue 1 have been replaced by the 330793 (50-60 Hertz) Transformer. Transformer shields should not be used on Early Design transformers.
  - ⑨ Replaced by 337992 Transformer w/Shields
- NOTE:** The 184012 Selector Magnet Driver shown in Issue 1 has been replaced by the 181815 Selector Magnet Driver.

FIGURE 12. 181815 AND 184048 SELECTOR MAGNET DRIVERS

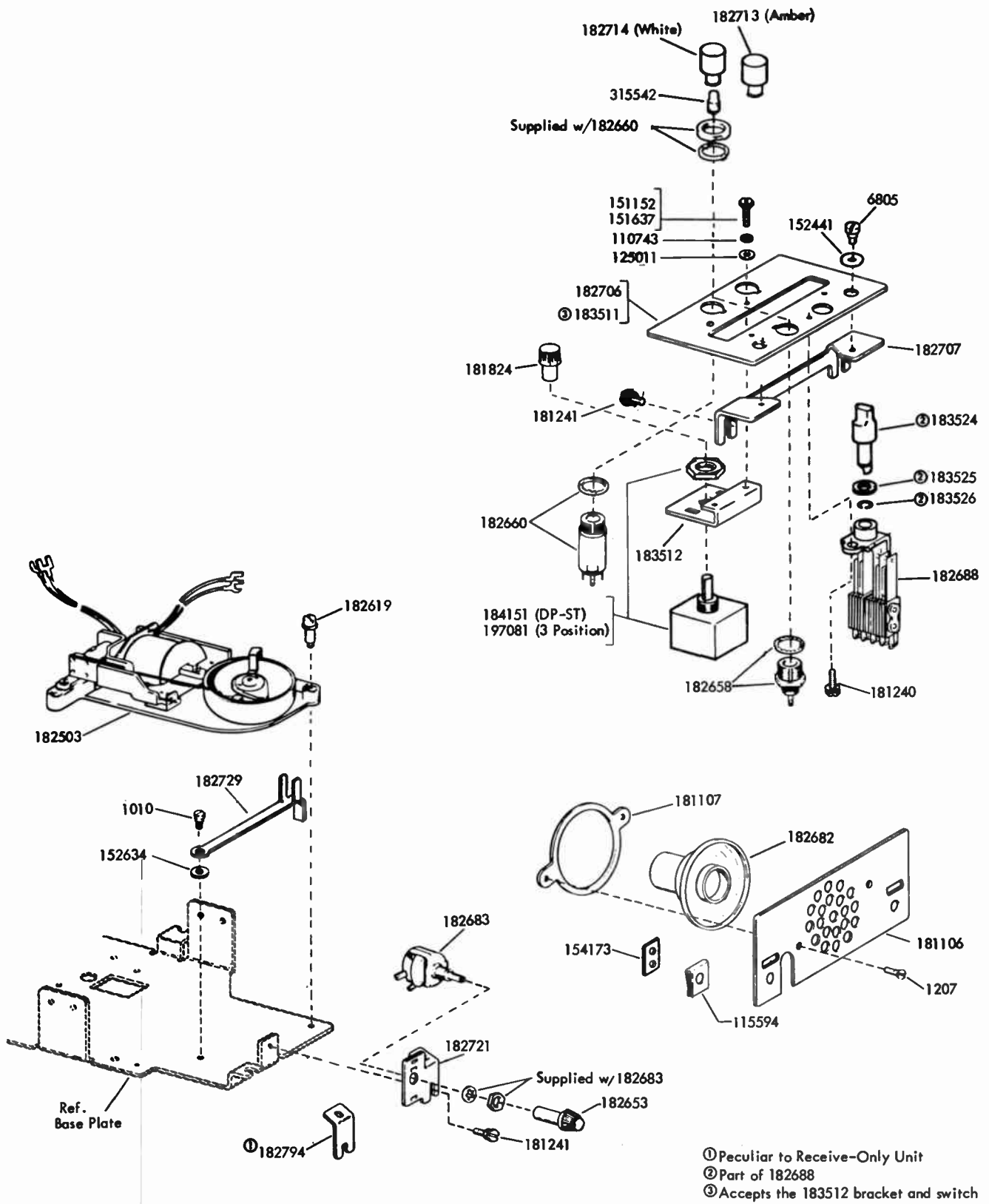
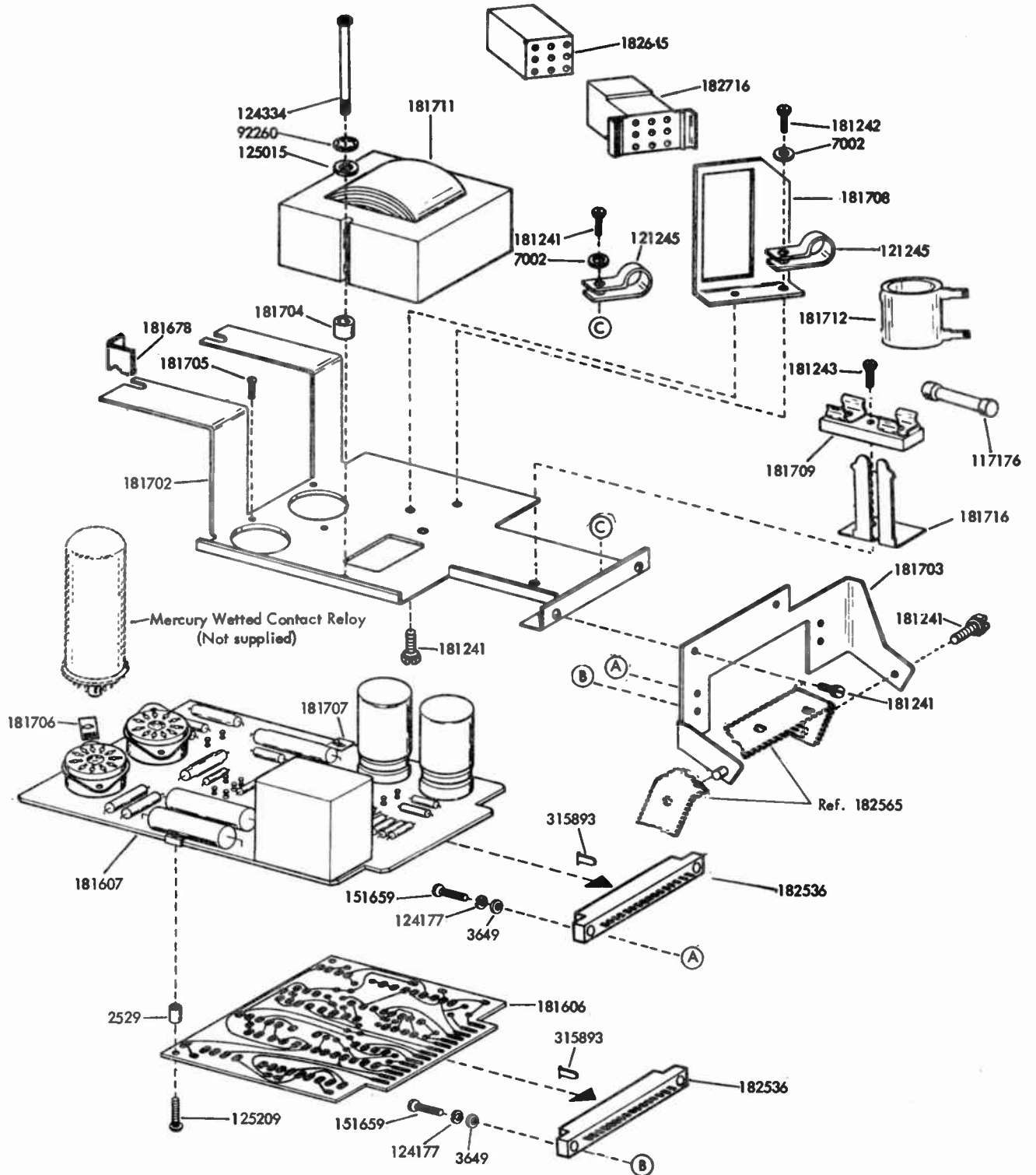


FIGURE 13. ALARMS AND SPEAKER



Note: This Figure depicts the Early Design assembly. For Late Design assembly, see Figure 15. Coble components found in Figure 19

FIGURE 14. 182087 POLAR ADAPTER ASSEMBLY

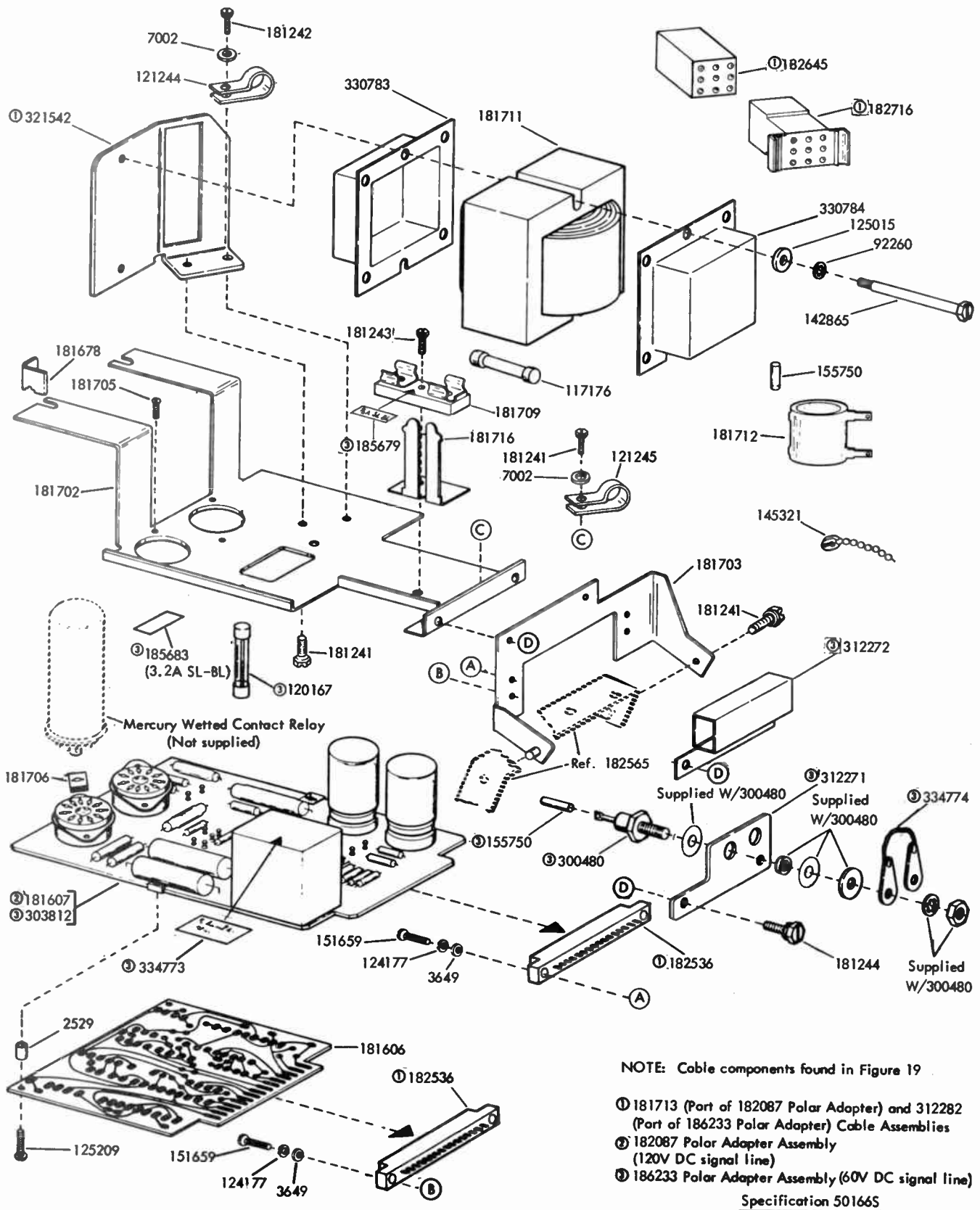
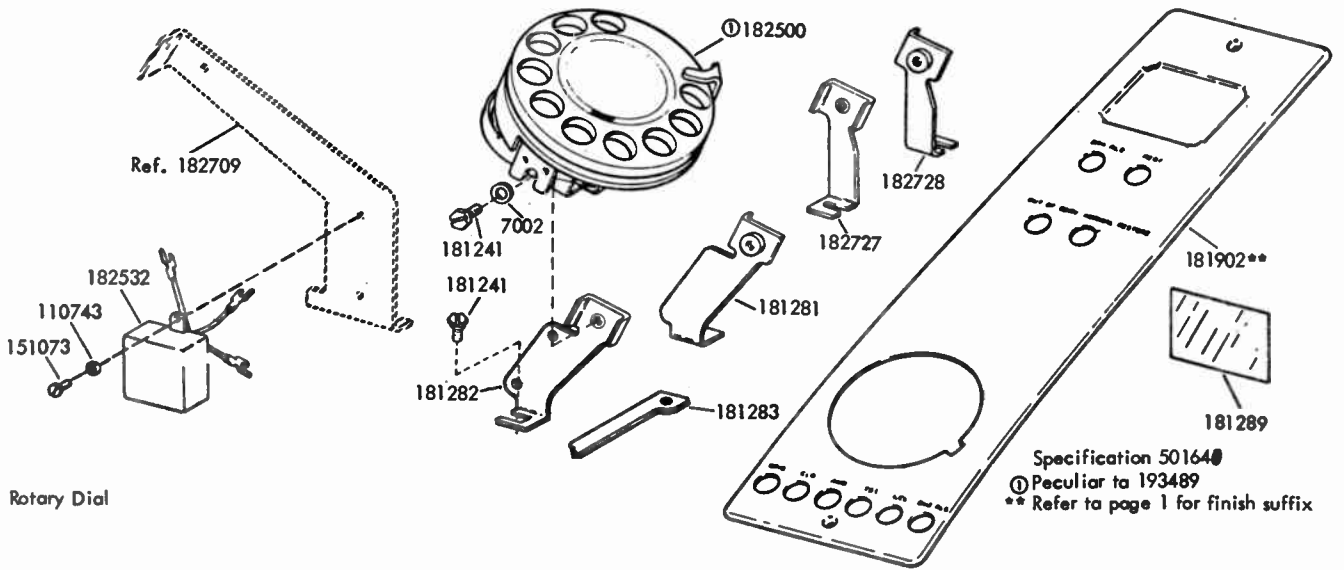


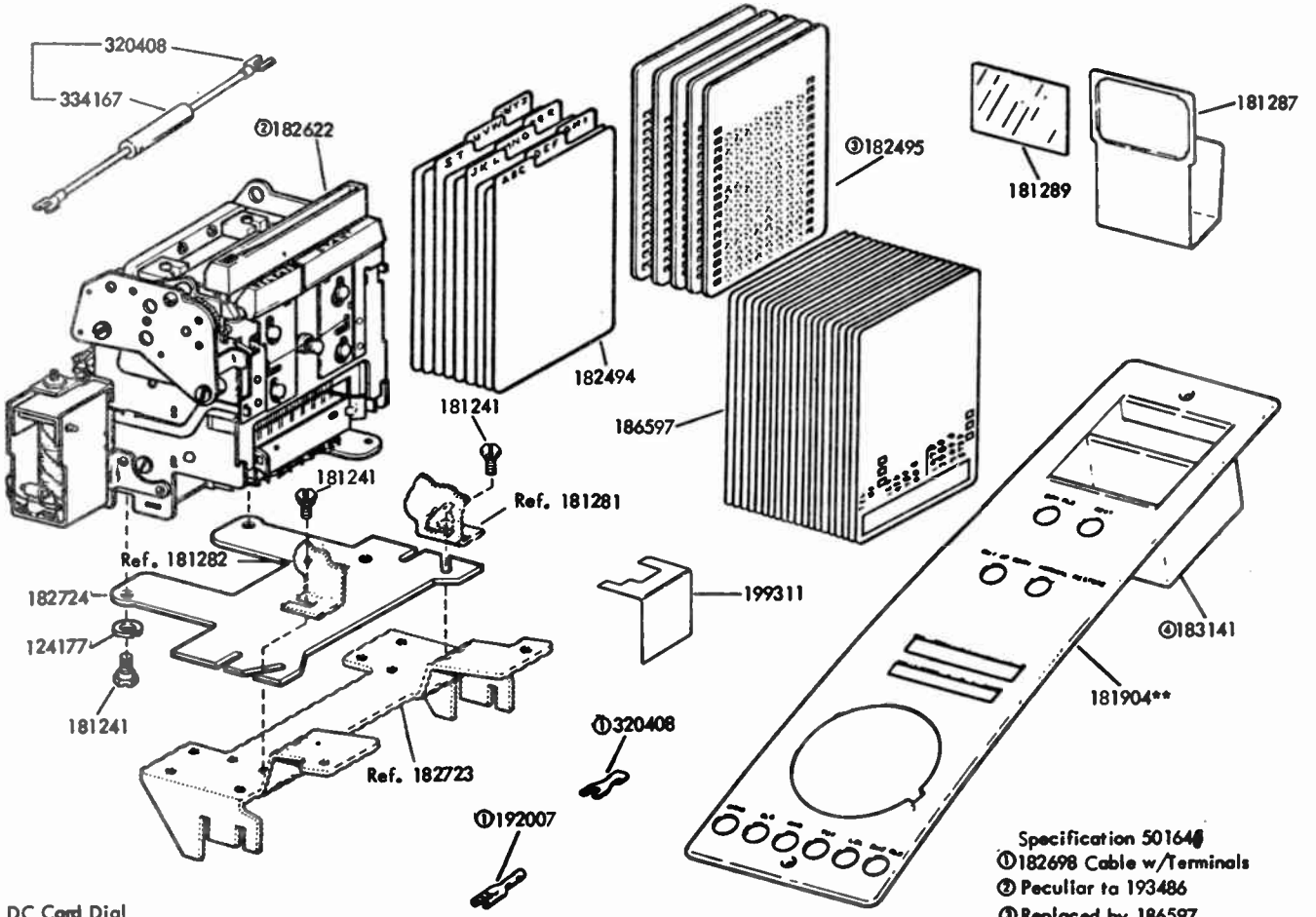
FIGURE 15. 182087 AND 186233 POLAR ADAPTER ASSEMBLIES



Rotary Dial

Specification 50164  
 ① Peculiar to 193489  
 \*\* Refer to page 1 for finish suffix

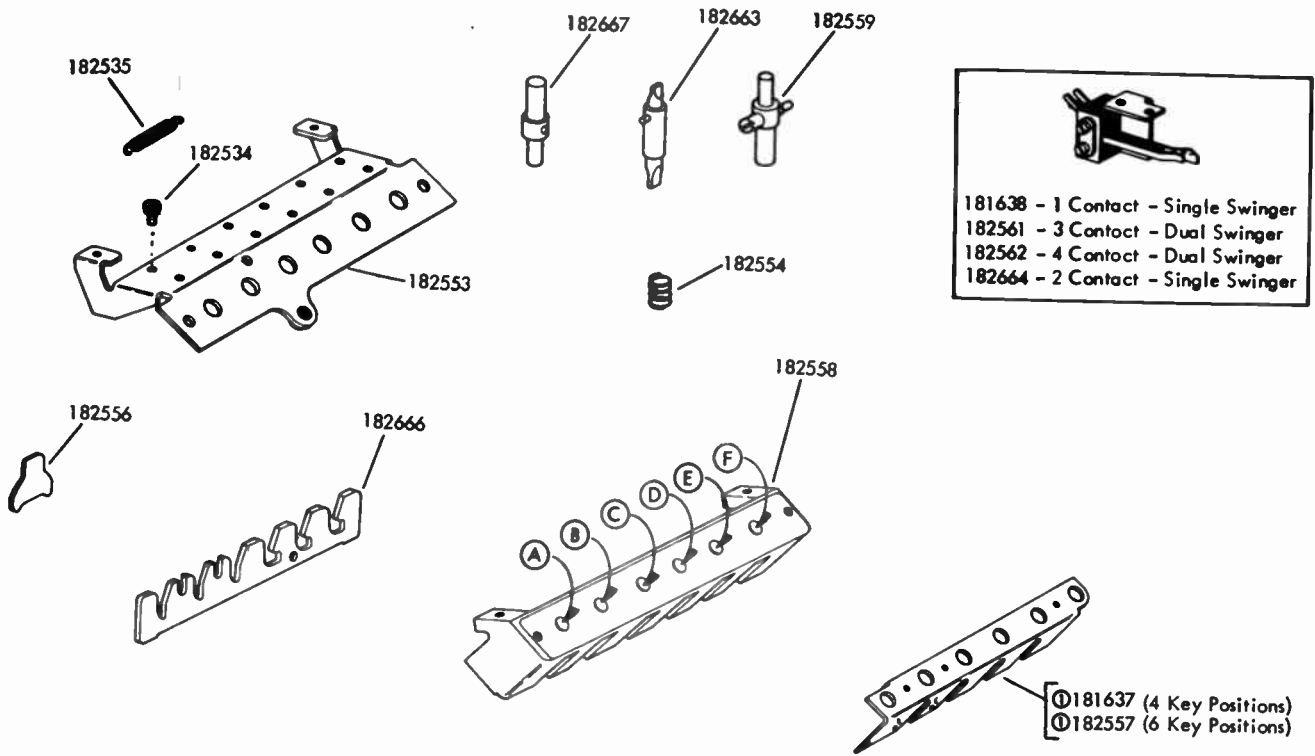
FIGURE 16. 193489 (With Dialer) And 195926 (Less Dialer) MODIFICATION KITS



DC Card Dial

Specification 50164  
 ① 182698 Cable w/Terminals  
 ② Peculiar to 193486  
 ③ Replaced by 186597  
 ④ Supplied as part of faceplate or  
 can be ordered separately  
 \*\* Refer to page 1 for finish suffix

FIGURE 17. 193486 (With Dial) And 195924 (Less Dial) MODIFICATION KITS



KEY ASSEMBLY PART LOCATION TABLE				
POSITION		182581	182582	182583
F	Plunger Switch		182559 182562	182663 182561
E	Plunger Switch	182667 182562	182559 182561	182667 182562
D	Plunger Switch	182667 181638	182559 182562	182667 182664
C	Plunger Switch	182667	182559 182562	182667 182664
B	Plunger Switch	182667 182562	182559 182562	182667 182562
A	Plunger Switch		182559 182562	182667 182664

Switches shown often provide more than the minimum desired combinations.

Plunger Spring	182554	182554	182554
Lockout		182556	
Lotch Bar		182666	
Latch Spring		182535	
Bracket	181637	182557	182557

① Must be ordered with 182558 Block because of Assembly procedure.

FIGURE 18. KEY ASSEMBLIES

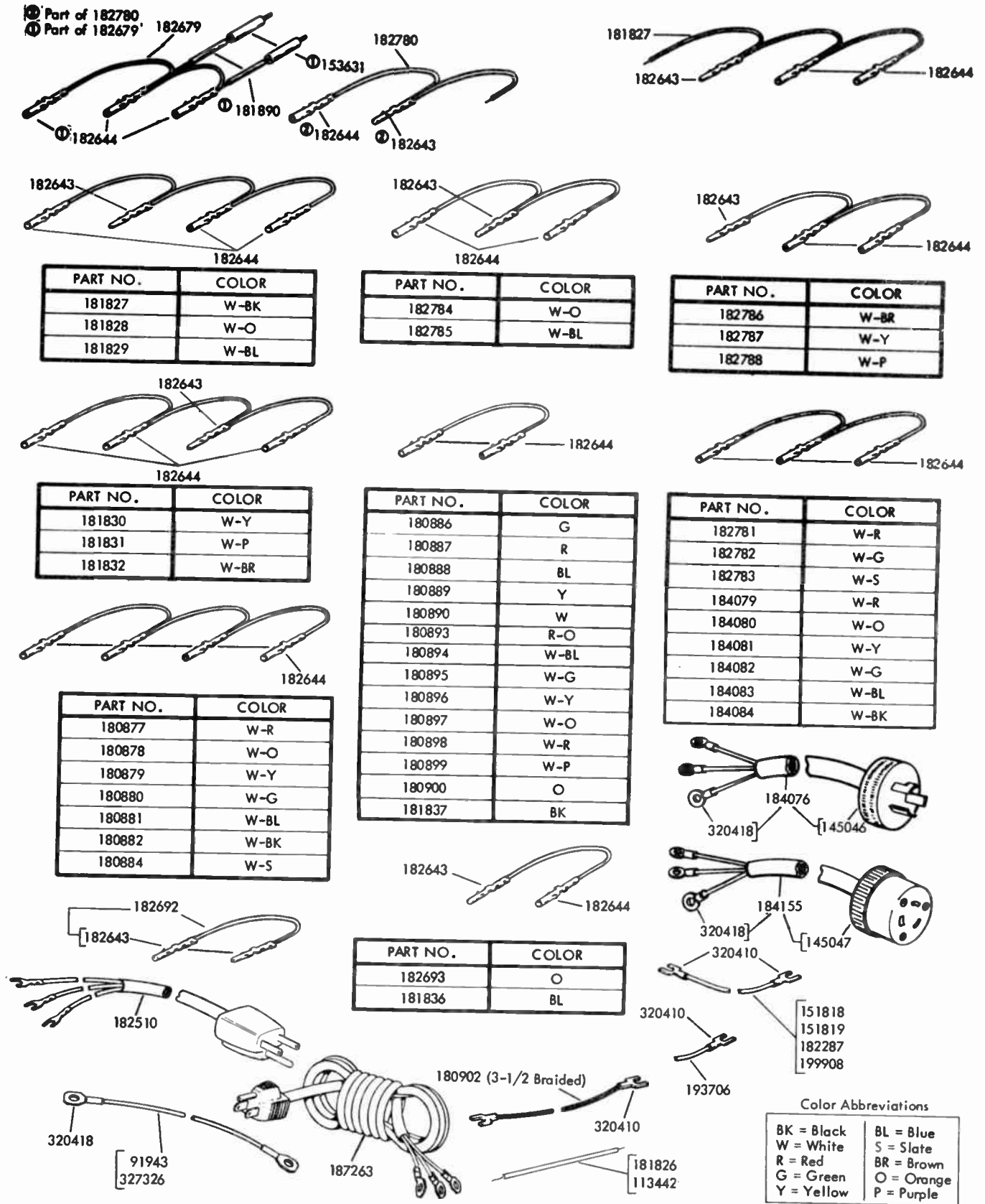
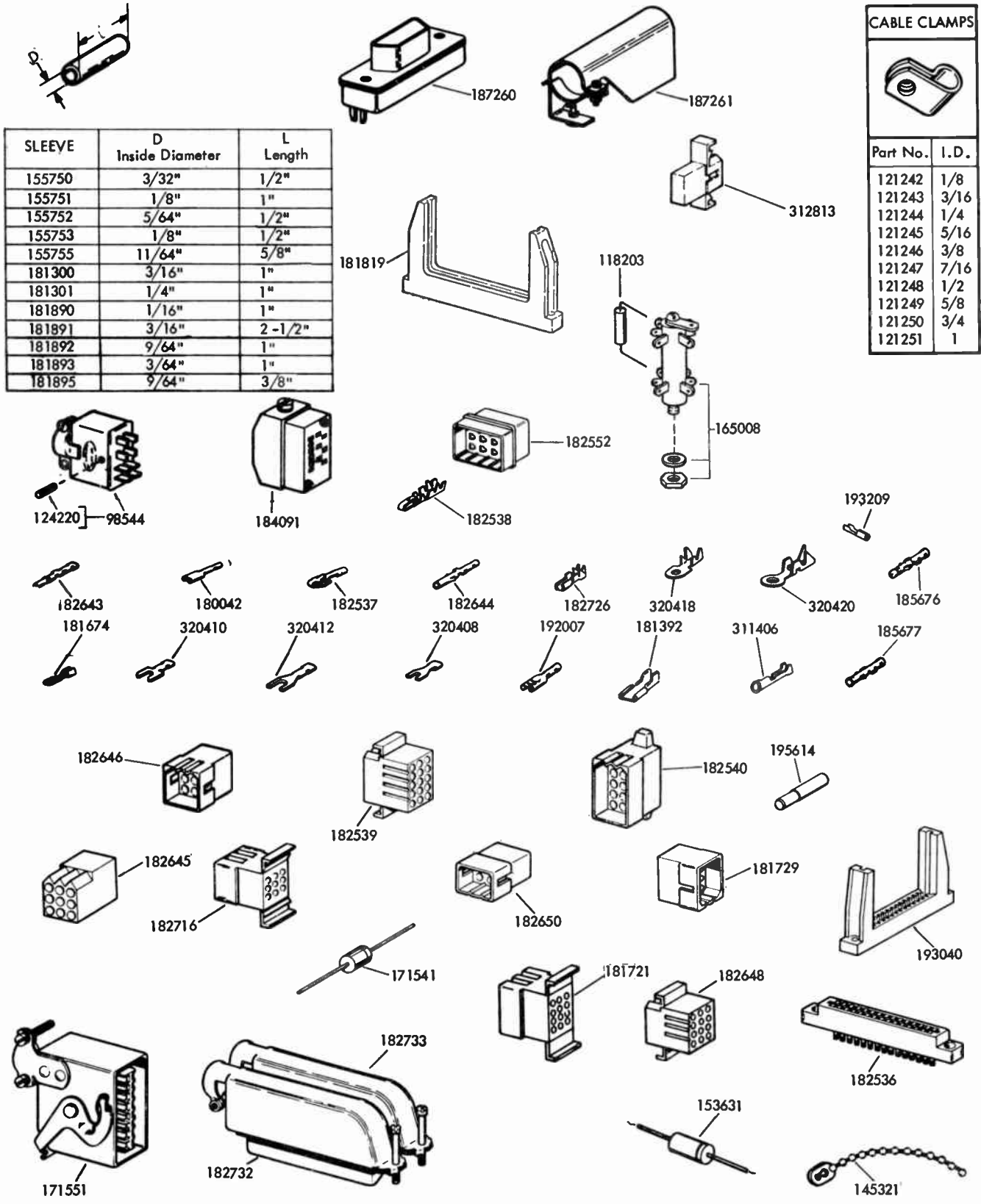


FIGURE 19. POWER CORDS AND JUMPERS



SLEEVE	D Inside Diameter	L Length
155750	3/32"	1/2"
155751	1/8"	1"
155752	5/64"	1/2"
155753	1/8"	1/2"
155755	11/64"	5/8"
181300	3/16"	1"
181301	1/4"	1"
181890	1/16"	1"
181891	3/16"	2 - 1/2"
181892	9/64"	1"
181893	3/64"	1"
181895	9/64"	3/8"

CABLE CLAMPS	
Part No.	I. D.
121242	1/8
121243	3/16
121244	1/4
121245	5/16
121246	3/8
121247	7/16
121248	1/2
121249	5/8
121250	3/4
121251	1

FIGURE 20. CABLE COMPONENTS



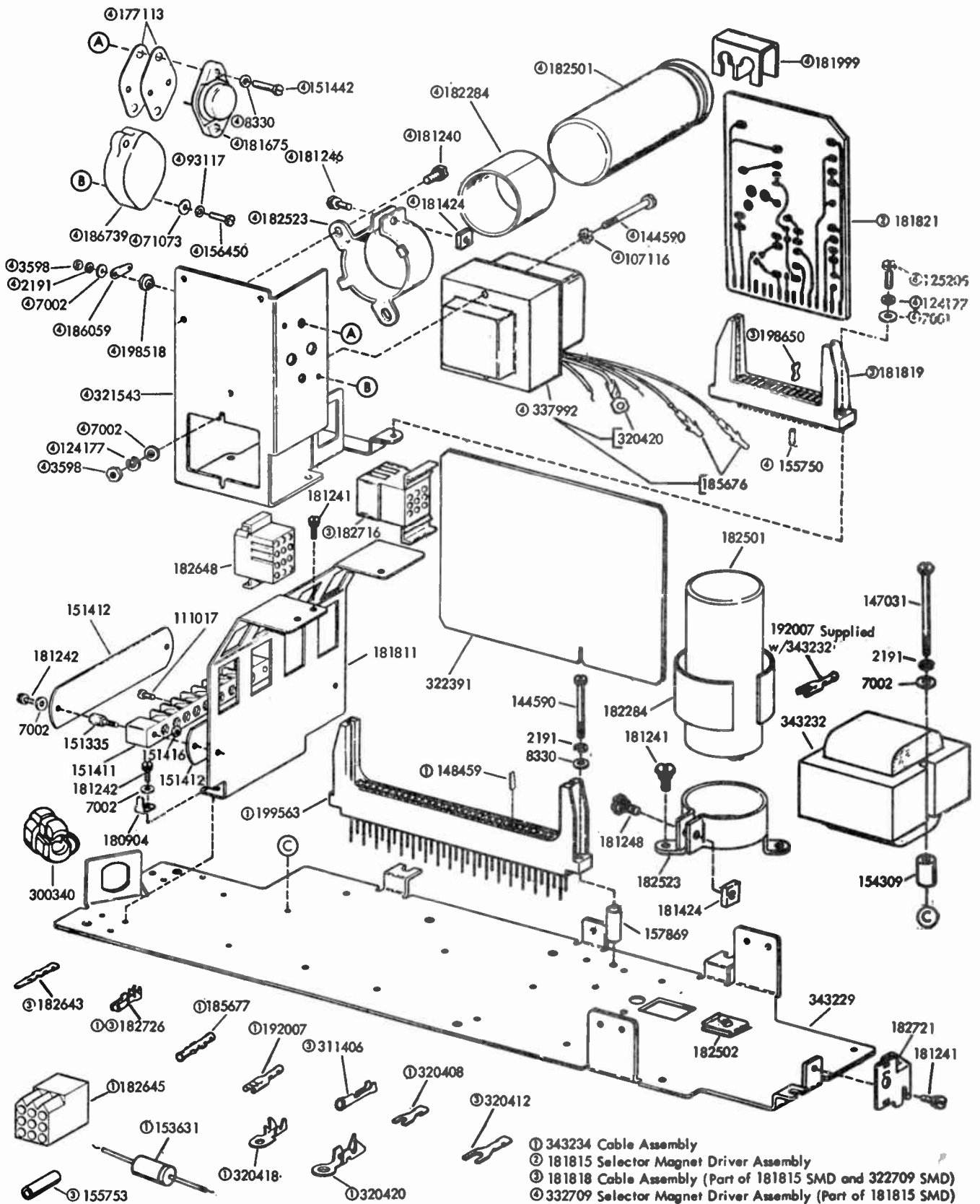


FIGURE 21. LINE CONTROL COMPONENTS

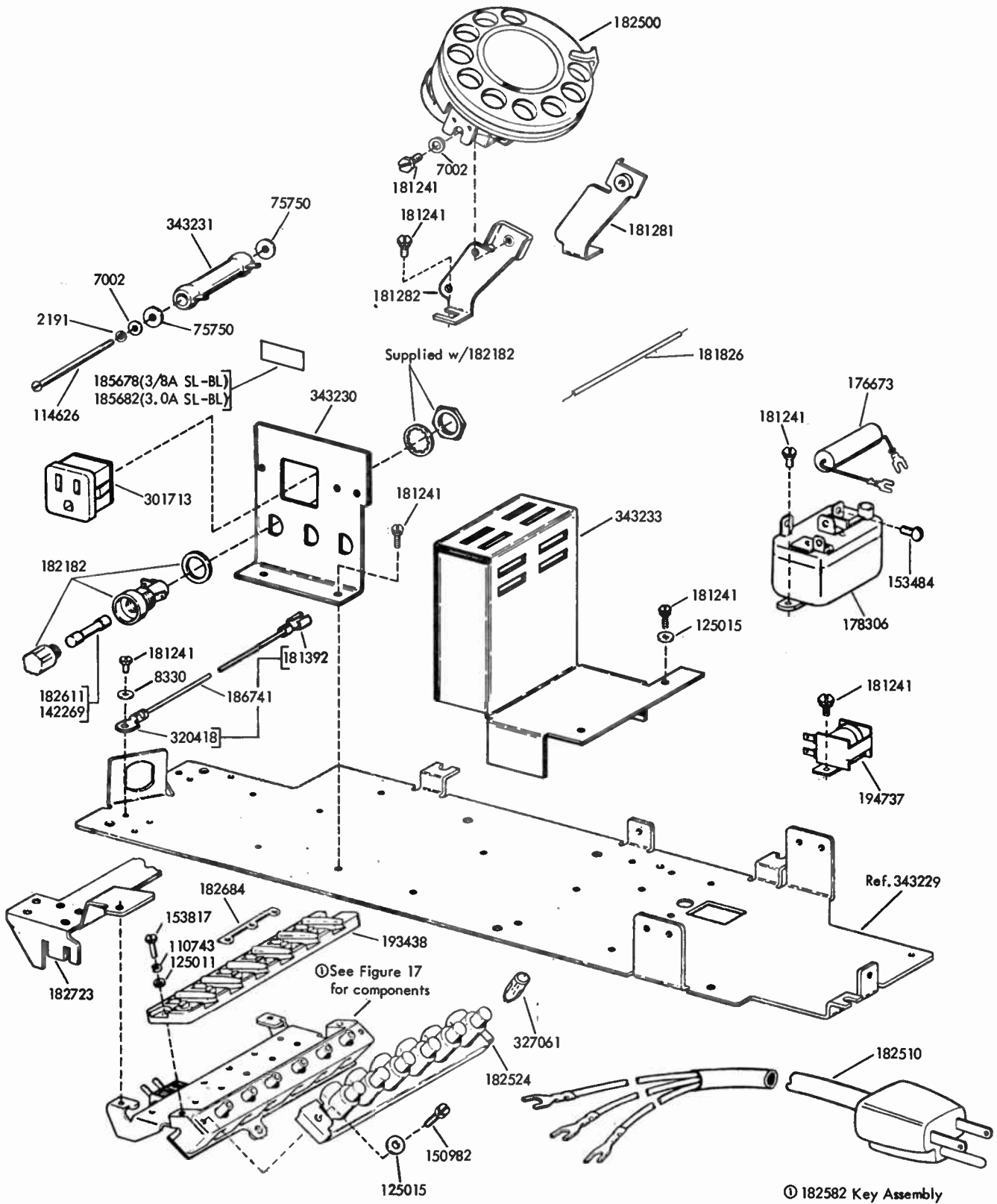


FIGURE 22. LINE CONTROL COMPONENTS (Continued)

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1010	Screw, 6-40 Shoulder 14	117176	Fuse, SL-BL 0.5 Amp 4, 10,15,16	150089	Screw, 4-40 x 1/2 Fil 2, 6
1028	Screw, 4-40 x 1/4 Fil 3	118203	Resistor, 4700 Ohm 10,20	150710	Screw, 6-40 x 1-1/4 Fil 7,8,13
1163	Screw, 4-40 x 3/16 Fil 3	120167	Fuse, SL-BL 3.2 Amp 4,16	150966	Insulator, Terminal 2,3
1207	Screw, 4-36 x 5/16 Flat 14	121242	Clamp, 1/8 ID Cable 20	150978	Screw, 6-40 x 1-1/8 Fil 4
1297	Screw, 6-40 x 2-7/16 Fil 5	121243	Clamp, 3/16 ID Cable 20	150982	Screw, 4-40 x 7/16 Fil 3,22
2191	Lockwasher 3,7,8,12,13, 21,22	121244	Clamp, 1/4 ID Cable 16, 20	151073	Screw 4-40 x 5/32 Fil 17
2529	Bushing, Insulating 15,16	121245	Clamp, 5/16 ID Cable 2, 6,7,8,15,16,20	151152	Screw, 4-40 x 3/16 Hex 14
3438	Washer, Flat 5	121246	Clamp, 3/8 ID Cable 20	151335	Stud 2,3,5,6,7,8,10,12,21
3598	Nut, 6-40 Hex 6,7,8,9,12, 13,21	121247	Clamp, 7/16 ID Cable 2, 20	151411	Block, Terminal 5,6,7,8, 10,12,21
3640	Lockwasher 3,11	121248	Clamp, 1/2 ID Cable 20	151412	Insulator, Terminal 5,6, 7,8,10,12,21
3646	Lockwasher 5,7	121249	Clamp, 5/8 ID Cable 20	151415	Block, Terminal 2,3
3649	Washer, Flat 4,6,15,16	121250	Clamp, 3/4 ID Cable 20	151416	Nut, 6-40 Hex 2,3,5,6, 7,8,10,12,21
5599	Nut, 8-32 Hex 7	121251	Clamp, 1 ID Cable 20	151416	Nut, 6-40 Hex 2,3,5,6, 7,8,10,12,21
6805	Screw, 6-40 Shoulder 14	121551	Screw, 8-32 x 1/4 Hex 2, 3,6	151442	Screw, 6-40 x 1/2 Hex 7, 8,12,13,21
7001	Washer, Flat 7,8,12,13,21	121790	Screw, 6-40 x 1-7/8 Hex 4,5	151630	Screw, 6-40 x 1/4 Hex 2,3,9
7002	Washer, Flat 2 to 13, 15,16,17,21,22	124177	Lockwasher 4,5,6,8,9,12, 13,15,16,17,21	151637	Screw, 4-40 x 1/4 Fil 14
8330	Washer, Flat 2,6,7,8,9, 10,12,13,21,22	124220	Pin, Drive 20	151659	Screw, 6-40 x 1/2 Fil 15,16
43633	Screw, 5-40 x 3/16 Fil 2	124334	Plate, Mounting 15	151661	Screw, 6-40 x 1 Fil 4
70072	Lockwasher 4	125011	Washer, Flat 2,3,13,14,22	151692	Screw, 6-40 x 3/16 Fil 6, 12
71073	Washer, Flat 12,13,21	125015	Washer, Flat 3,4,6,8,9, 13,15,16,22	151693	Screw, 6-40 x 9/16 Fil 4
75750	Washer, Insulating 22	125205	Screw, 6-40 x 7/16 Fil 8,12,13,21	151738	Screw, Identification 6
77920	Screw, 6-40 x 1-15/16 Fil 6	125209	Screw, 6-32 x 9/16 Rd 15,16	151818	Jumper, 4-1/4" Black 19
89969	Washer, Insulating 5	139820	Fuse, SL-BL 2.5 Amp 8	151819	Jumper, 3" Black 19
90787	Screw, 4-40 x 3/8 Hex 2	142269	Fuse, SL-BL 3 Amp 4,6,7, 10,22	151827	Strap, Terminal 5,10
91943	Jumper, 2-1/4" Black 19	142865	Screw, 6-40 x 2-1/3 Hex 16	151880	Nut, 4-40 Hex 11
92260	Lockwasher 2,15,16	144587	Diode 10	152441	Washer, Flat 14
93117	Lockwasher 12,13,21	144590	Screw, 6-40 x 1-3/8 Fil 9,12,13,21	152634	Washer, Flat 14
93118	Lockwasher 2	145046	Connector, 3 Pt Plug 19	152893	Screw, 4-40 x 1/4 Hex 2,3
96717	Screw, 4-40 Shoulder 2	145047	Connector, 3 Pt Receptacle 19	153484	Screw, 6-32 Spl 3,4,10,22
98544	Connector, 8 Pt Plug 20	145193	Screw, 6-40 x 2-1/16 Fil 7	153631	Network, Spark Suppression 7,19,20,21
98726	Screw, 3-48 x 1/4 Fil 4	145321	Tie, Cable 16,20	153799	Screw, 4-40 x 21/64 Hex 3
107116	Lockwasher 5,9,12,13,21	147031	Screw, 6-40 x 1-13/16 Fil 21	153817	Screw, 4-40 x 3/8 Hex 3,22
110743	Lockwasher 2,3,6,14,17,22	148459	Tab, Polarizing 7,21	154173	Plate 14
111017	Screw, 6-40 x 5/16 Fil 2,3,5,6,7,8,10,12,21			154309	Bushing 21
111640	Screw, 2-56 x 7/32 Fil 2			155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 13,16,20,21
112620	Screw, 4-40 x 1/2 Hex 3				
113442	Jumper, 2-1/2" Brown 19				
114626	Screw, 6-40 x 2-1/16 Fil 22				
115594	Nut, Speed 14				

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
155751	Sleeve, 1/8 ID x 1" Lg Insulating 20	180887	Jumper, 2-1/2" Red 19	181289	Window, Plastic 17
155752	Sleeve, 5/64 ID x 1/2" Lg Insulating 13,20	180888	Jumper, 2-1/2" Blue 19	181297	Cover, Insulating 7,10
155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 8,13,20,21	180889	Jumper, 2-1/2" Yellow 19	181300	Sleeve, 3/16 ID x 1" Lg Insulating 8,12,20
155754	Sleeve, 1/16 ID x 1/2" Lg Insulating 10	180890	Jumper, 2-1/2" White 19	181301	Sleeve, 15/64 ID x 1" Lg Insulating 20
155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 8,12,13,20	180893	Jumper, 2-1/2" Red-Orange 19	181392	Terminal, Tab Type 2,7,9,10,20,22
156450	Screw, 2-56 x 1/2 Fil 12,13,21	180894	Jumper, 2-1/2" White-Blue 19	181424	Nut, 6-40 Sq 4,6,7,8,10,12,13,21
157869	Spacer, .824" Thk 21	180895	Jumper, 2-1/2" White-Green 19	181602	Card, Circuit 2
158807	Wcrew, 3-48 x 11/64 Fil 4	180896	Jumper, 2-1/2" White-Yellow 19	181604	Card, Circuit 4
159597	Washer, Flat 2	180897	Jumper, 2-1/2" White-Orange 19	181606	Card, Circuit 15,16
159931	Clamp 6	180898	Jumper, 2-1/2" White-Red 19	181607	Card, Circuit 15,16
159932	Keeper 6	180899	Jumper, 2-1/2" White-Purple 19	181631	Strip Assembly, Lamp 2
162360	Fuse, SL-BL .8 Amp 7	180900	Jumper, 2-1/2" Orange 19	181632	Button Assembly 2
163632	Spacer, 1" Lg 7	180902	Jumper, 3-1/2" Braided 19	181637	Bracket 18
165008	Turret, Terminal 6,10,20	180904	Tab, Terminal 5,6,7,8,10,12,21	181638	Contact Assembly 18
171526	Resistor, 15,000 Ohm 6	181106	Plate, Baffle 14	181642	Transformer 4,5
171527	Resistor, 200 Ohm 6	181107	Bracket 14	181645	Dial, Rotary 2
171541	Diode 6,10,20	181240	Screw w/Lockwasher, 6-40 x 3/16 Hex 2,4,6,7,10,12,13,14,21	181661	Buzzer, 115V AC 2
171551	Connector, 16 Pt Plug 20	181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 2 to 10,12,13,14,15,16,17,21,22	181672	Relay, Power 4
171593	Fuse, .5 Amp 6	181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 2,6,7,8,10,11,12,15,16,21	181673	Bracket, Relay 4
174412	Spacer, .531" Thk 5	181243	Screw w/Lockwasher, 6-40 x 3/8 Hex 4,7,15,16	181674	Terminal, Tab Type 20
176673	Suppressor, Spark 10,22	181244	Screw w/Lockwasher, 6-40 x 7/16 Hex 16	181675	Transistor, Power 7,8,12,13,21
177113	Insulator 7,8,12,13,21	181245	Screw w/Lockwasher, 6-40 x 1/2 Hex 7	181676	Shield, Relay 4
178306	Relay, Power 4,10,22	181246	Screw w/Lockwasher, 6-40 x 5/8 Hex 4,21	181678	Bracket 15,16
178535	Suppressor, Spark 3,4	181248	Screw w/Lockwasher, 6-40 x 7/8 Hex 6,8,10,12,13,21	181702	Bracket w/Nuts 15,16
178831	Connector, 2 Pt Receptacle 6,7	181281	Bracket, Right 17,22	181703	Bracket 15,16
178832	Plate, Adapter 6,7	181282	Bracket, Left 17,22	181704	Spacer, 7/16" Thk 15
180042	Terminal, Tab Type 20	181283	Spacer, .065" Thk 3,17	181705	Screw, No. 4 Self-Tapping 15,16
180877	Jumper, 2-3/4" White-Red 19	181287	Holder, Card 17	181706	Nut, Speed 15,16
180878	Jumper, 2-3/4" White-Orange 19			181707	Nut, Speed 15,16
180879	Jumper, 2-3/4" White-Yellow 19			181708	Bracket, Connector Mounting 15
180880	Jumper, 2-3/4" White-Green 19			181709	Holder, Fuse 15,16
180881	Jumper, 2-3/4" White-Blue 19			181711	Transformer 15,16
180882	Jumper 2-3/4" White-Black 19			181712	Resistor, Power 15,16
180884	Jumper, 2-3/4" White-Slate 19			181713	Cable Assembly 16
180886	Jumper, 2-1/2" Green 19			181716	Bracket, Resistor 15,16
				181721	Connector, 12 Pt Plug Type 13,20
				181729	Connector Assembly 5,20
				181809	Bracket, Switch 6,12
				181810	Relay 6
				181811	Bracket 6,21
				181814	Capacitor, 250 MFD 6

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181815	Driver Assembly, Selector 1,13,21	181996	Insulator 6	182535	Spring 18
181816	Resistor, 4,200 Ohm 6	181999	Insulator 6,10,12,13,21	182536	Connector, 15 Pt Circuit Card 4,15,16,20
181817	Bracket 6	182065	Plate, Identification 6,7	182537	Terminal, Tab Type 20
181818	Cable Assembly 13,21	182066	Plate, Identification 7	182538	Terminal, Tab Type 20
181819	Connector, 15 Pt Circuit Card 8,9,12,13,20,21	182087	Adapter Assembly, Polar 1,15,16	182539	Connector, 15 Pt Receptacle Type 20
181821	Card, Circuit 13,21	182162	Post 4	182540	Connector, 15 Pt Plug Type 20
181822	Bracket 13	182173	Spacer, 3/4" Lg 7	182543	Card, EC543 Circuit 4
181824	Knob, Gray Pointer 6,7, 12,14	182177	Card, Circuit 7	182544	Card, EC544 Circuit 4
181825	Cover, Relay 6	182182	Holder, Fuse 6,7,8,10,12, 22	182552	Cap, 12 Pt Connector 20
181826	Jumper, 2" Black 19,22	182184	Fuse, 2.8 Amp 6,7	182553	Plate, Base 18
181827	Jumper, 2-3/4" White-Black 19	182185	Bracket 8,9	182554	Spring, Compression 18
181828	Jumper, 2-3/4" White-Orange 19	182186	Jumper, 3" Black 8	182556	Lockout 18
181829	Jumper, 2-3/4" White-Blue 19	182187	Jumper, 3" Orange 8,12	182557	Bracket 18
181830	Jumper, 2-3/4" White-Yellow 19	182188	Cable w/Terminals 8	182558	Frame 18
181831	Jumper, 2-3/4" White-Purple 19	182189	Tag, Warning 8	182559	Plunger 18
181832	Jumper, 2-3/4" White-Brown 19	182190	Modification Kit 8	182561	Contact Assembly 18
181836	Jumper, 4-1/2" Blue 19	182191	Relay 3	182562	Contact Assembly 18
181837	Jumper, 4-1/2" Black 19	182192	Bracket 3	182563	Plate w/Bracket 2
181841	Nameplate 6	182193	Insulator 3	182564	Bracket 4
181844	Nameplate 7	182251	Plate, Identification 13	182565	Bracket 2,15,16
181857	Plate 7	182284	Insulator, .015" Thk 4, 6,8,10,12,13,21	182566	Bracket, Left 2
181879	Transformer, Power 6	182287	Jumper, 6" Purple 19	182567	Bracket, Connector 5
181881	Bracket w/Studs 7	182492	Insulator, .031" Thk 4	182568	Strap 2
181882	Bracket, Switch 7	182494	Card Set, Index 17	182569	Clamp 2,7
181889	Card, Circuit 7	182495	Card Set, Dialing 17	182571	Screw, 6-40 Shoulder 2
181890	Sleeve, 1/16 ID x 1" Lg Insulating 19,20	182500	Dial, Rotary 2,17,22	182575	Bracket 4
181891	Sleeve, 3/16 ID x 2-1/2" Lg Insulating 20	182501	Capacitor, 1,500 MFD 4, 7,8,10,12,13,21	182576	Bracket, Right 2
181892	Sleeve, 9/64 ID x 1" Lg Insulating 20	182502	Nut, No.14 Speed 2,6,7, 10,12,21	182577	Bracket 2
181893	Sleeve, 3/64 ID x 1-1/2" Lg Insulating 20	182503	Ringer w/Terminals 2,14	182578	Bracket 4
181895	Sleeve, 9/64 ID x 3/8" Lg Insulating 20	182504	Transmitter 2	182581	Key Assembly 18
181897	Transformer 8,9	182510	Cord, Power 12,19,22	182582	Key Assembly 18,22
181899	Plate w/Bushings 8,9	182517	Resistor, 35 Ohm 5	182583	Key Assembly 18
181902**	Faceplate 17	182520	Rectifier 6	182590	Block, Terminal 2
181904**	Faceplate 17	182522	Clip, Fuse 4	182607	Insulator, .031" Thk 4
181994	Bracket, Guide 6,10,12	182523	Clamp, 1-3/8" ID Mounting 4,6,7,8,10,12,13, 21	182608	Post, Square 4
		182524	Button Assembly 2,3,22	182609	Post, Round 4
		182527	Screw, 4-40 Shoulder 2	182610	Stud 4
		182529	Lamp, 10V 2,3	182611	Fuse, SL-BL 3/8 Amp 4, 6,8,10,12,22
		182530	Strip Assembly, Lamp 2	182612	Screw, 6-40 x 1-1/2 Hex 4,5
		182532	Filter 2,17	182615	Pad 2
		182534	Screw, 4-40 Spl 18	182617	Capacitor, 1 MFD 2
				182618	Bracket 2
				182619	Screw, 6-40 Shoulder 2, 14

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182622	Dial, DC Card 17	182718	Buzzer, 10V AC 3	184036	Relay 3
182631	Card, Circuit 8,12	182721	Bracket 14,21	184037	Bracket, Relay Mounting 3
182643	Terminal, Plug Type 13,19,20,21	182722	Transformer w/Terminals 13	184043	Resistor, 800 Ohm 6
182644	Terminal, Receptacle Type 10,11,19,20	182723	Bracket 3,17,22	184044	Resistor, 8,000 Ohm 6
182645	Connector, 9 Pt Receptacle Type 15,16,20,21	182724	Plate, Dial 17	184045	Socket, Relay 3
182646	Connector, 9 Pt Plug Type 20	182726	Terminal, Receptacle Type 13,20,21	184048	Driver Assembly, Selector Magnet 1,13
182648	Connector, 12 Pt Receptacle Type 5,6,7,10,11,20,21	182727	Bracket, Left 17	184049	Cable Assembly 13
182650	Connector, 6 Pt Plug Type 20	182728	Bracket, Right 17	184050	Bracket 13
182651	Bracket 2	182729	Link, Ringer 14	184075	Stud 3
182652	Potentiometer, 250 Ohm 2	182730	Bracket, Support 3	184076	Cable Assembly 19
182653	Knob 2,14	182732	Connector, 50 Pt Plug 20	184078	Insulator, .032" Thk 6
182658	Socket, Lamp 14	182733	Connector, 50 Pt Receptacle 20	184079	Jumper, White-Red 19
182660	Switch, Pushbutton 14	182759	Shield, Insulating 5	184080	Jumper, White-Orange 19
182663	Plunger 18	182761	Capacitor, 0.5 MFD 3	184081	Jumper, White-Yellow 19
182664	Contact Assembly 18	182768	Bracket, Fuse 6	184082	Jumper, White-Green 19
182666	Bar, Latch 18	182780	Jumper, 2-1/4" White-Black 19	184083	Jumper, White-Blue 19
182667	Plunger 18	182781	Jumper, 2-3/4" White-Red 19	184084	Jumper, White-Black 19
182669	Relay, Power 3	182782	Jumper, 2-3/4" White-Green 19	184091	Connector, 12 Pt Plug 20
182679	Jumper w/Spark Suppressor 19	182783	Jumper, 2-3/4" White-Slate 19	184151	Switch, DP-ST 12,14
182682	Speaker, 2" 14	182784	Jumper, 2-1/4" White-Orange 19	184155	Cable Assembly 19
182683	Resistor, 50 Ohm 14	182785	Jumper, 2-1/4" White-Blue 19	184169	Capacitor, 500-600 MFD 7
182684	Strap 3,22	182786	Jumper, 2-1/4" White-Brown 19	184171	Strip, Terminal 7
182688	Switch, Turn Button 14	182787	Jumper, 2-1/4" White-Yellow 19	184209	Insulator 7
182692	Jumper, 2-1/4" Orange 19	182788	Jumper, 2-1/4" White-Purple 19	184210	Insulator 7
182693	Jumper, 2-1/4" Orange 19	182793	Plate, Heat Sink 13	184222	Transformer 7
182698	Cable w/Terminals 17	182794	Bracket 14	184223	Pad 7
182700	Plate, Base 3,6	182796	Insulator, .032" Thk 6	185676	Terminal, Plug Type 12,13,20,21
182706	Plate, Pilot 14	183111	Label 13	185677	Terminal, Receptacle Type 10,20,21
182707	Bracket, Pilot 14	183141	Holder, Card 17	185678	Plate, Identification 4,6,8,10,12,21
182708	Bracket, Left 3	183511	Plate, Pilot 14	185679	Plate, Identification 4,10,16
182709	Bracket, Right 3,17	183512	Bracket, Switch 14	185681	Plate, Identification 8
182710	Bracket, Upper 6,10	183524	Button, Turn 14	185682	Plate, Identification 4,6,10,22
182711	Bracket, Lower 6,10	183525	Washer, Flat 14	185683	Plate, Identification 4,16
182713	Cap, Amber Lens 14	183526	Ring, Retaining 14	185718	Diode w/Terminals 6
182714	Cap, White Lens 14	184011	Transformer 13	185732	Bracket, Fuse 12
182716	Connector, 9 Pt Plug Type 13,15,16,20,21	184012	Driver Assembly, Selector Magnet 13	186059	Terminal 7,8,12,13,21
182717	Board, Terminal 3			186060	Screw, 6-40 Shoulder 2
				186233	Adapter Assembly Polar 1,16
				186588	Transformer w/Terminals 12

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186590	Plate 12	300340	Bushing 2,3,6,9,10,12,21	330783	Shield, Transformer 16
186597	Card Set, Dialing 17	300480	Diode 16	330784	Shield, Transformer 16
186628	Bracket 6	301713	Connector, 2 Pt Receptacle 6,7,22	330793	Transformer 13
186651	Transformer 6	303162	Card, Circuit 4	330794	Transformer w/Terminals 9
186698	Bracket 12	303809	Card, Circuit 2	330795	Transformer w/Terminals 4,5
186739	Cover 12,13,21	303812	Card, Circuit 16	330905	Label, Off Line 11
186741	Jumper, 9" Green 2,6,7, 9,10,22	303824	Card, Circuit 11	330906	Label, Out of Service 11
187069	Barrier 4,5	304660	Insulator, .031" Thk 4	332709	Driver Assembly, Selector 13,21
187109	Bracket 7	304992	Bushing, Blocking 3	333515	Shield, Transformer 13
187110	Transformer w/Terminals 7	305689	Card, Circuit 2	334167	Network, Spark Suppression 17
187111	Bracket 7	311406	Terminal, Receptacle Type 13,20,21	334652	Insulator, Switch 6,7,12
187112	Bracket 7	312271	Plate 16	334773	Label 16
187115	Filter 7	312272	Insulator 16	334774	Strap 16
187260	Connector, 15 Pt Receptacle 20	312282	Cable Assembly 16	334776	Label 11
187261	Shell, Junction 20	312813	Connector, Plug Type 20	334782	Label 11
187263	Cord, Power 19	315542	Lamp, 14V Incandescent 14	334786	Label 11
192007	Terminal, Tab Type 8,12, 17,20,21	315893	Key, Polarizing 4,15	334793	Label 11
193040	Connector w/Guide Slot 7,20	320408	Terminal, Spade Type 17,20, 21	336318	Cable Assembly 11
193209	Connector, Receptacle Type 7,20	320410	Terminal, Spade Type 6,8, 12,19,20	336319	Jumper w/Diode 10
193434	Button Assembly 3	320412	Terminal, Spade Type 8, 13,20,21	336333	Plate, Nut 11
193438	Strip, Lamp 3,22	320418	Terminal, Ring Type 2,7, 9,10,19,20,21,22	336334	Collar 11
193486	Modification Kit 1,17	320420	Terminal, Ring Type 10, 12,20,21	336337	Bracket 11
193489	Modification Kit 1,17	321009	Cap, Plastic 11	336338	Plate 11
193706	Jumper, 3" White-Orange 19	321542	Bracket 16	336339	Plate 10,11
194737	Buzzer 22	321543	Bracket 12,13,21	336340	Switch, Key 11
195614	Pin, Key 5,6,7,20	321544	Bracket 13	336363	Bushing, Insulating 11
195924	Modification Kit 1,17	322391	Card, Circuit 21	336364	Pad 11
195926	Modification Kit 1,17	323614	Switch, Slide 10	336365	Label 10
197081	Switch, 3 Positions 6,7, 14	327056	Button 11	336366	Bracket 10
198518	Bushing, Insulating 7,8, 12,13,21	327061	Lamp, 24 V 11,22	336381	Diode w/Terminals 10
198522	Clip, Spring 7	327326	Jumper, 2-3/4" Green 10, 19	336382	Sleeve, 5/16 ID x 1" Lg Insulating 10
198649	Connector, 15 Pt Circuit Card 7	327806	Plug 11	337992	Transformer w/Terminals 13,21
198650	Key, Polarizing 7,8,12,13, 21	328591	Strap, Cable 6	337993	Transformer 8,9
199311	Insulator 17	330545	Tab, Dark Red 11	337994	Transformer 5
199397	Bracket, Fuse 6,10	330546	Tab, Amber 11	343229	Plate 21,22
199563	Connector, 36 Pt Card 21	330781	Shield, Transformer 5,9	343230	Bracket 22
199908	Jumper, 3-1/2" White 19	330782	Shield, Transformer 5,9, 13	343231	Resistor, 150 Ohm 22
				343232	Transformer w/Terminals 21
				343233	Insulator 22
				343234	Cable Assembly 21
				343470	Label 6,7

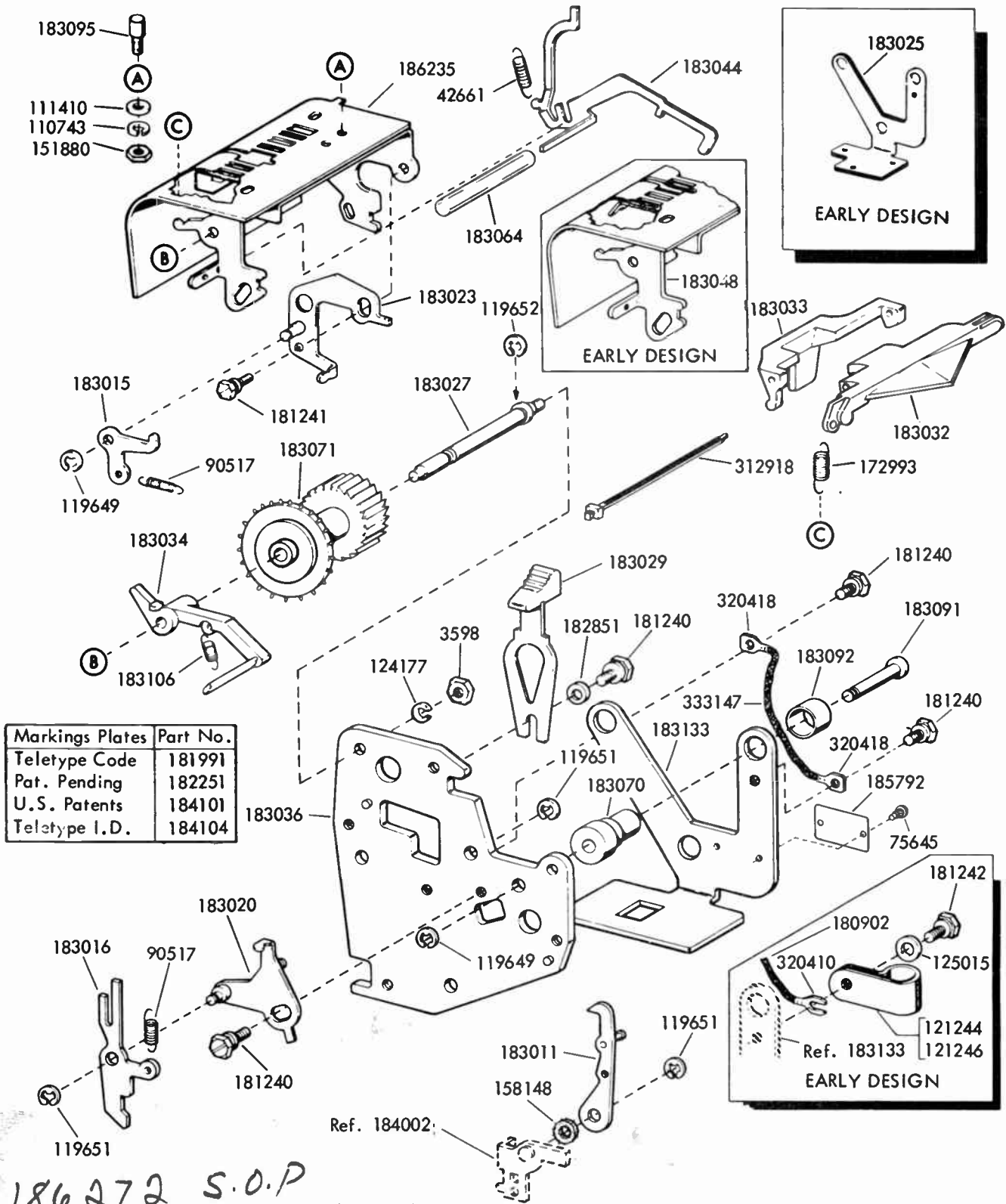




32 TAPE READER (UX)

PARTS

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186272 S.O.P  
FOR NEW PIN & TOP PLATE

FIGURE 1. READER MECHANISM

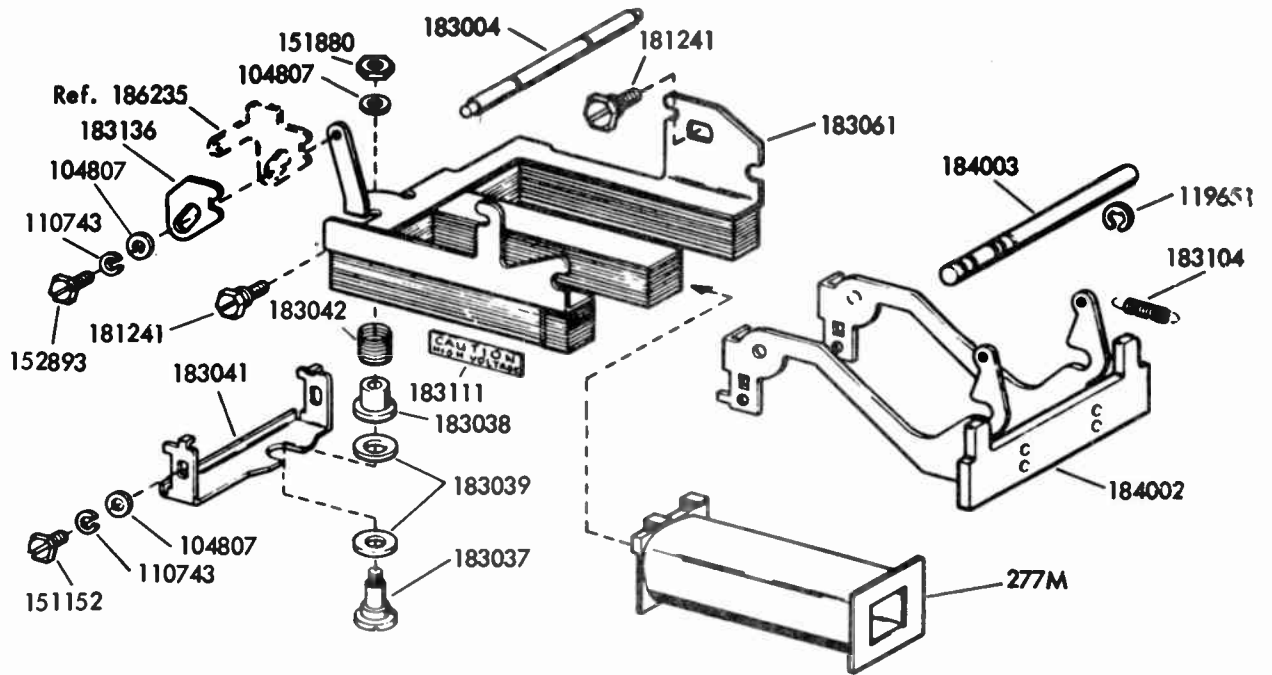


FIGURE 2. TAPE FEED MAGNET

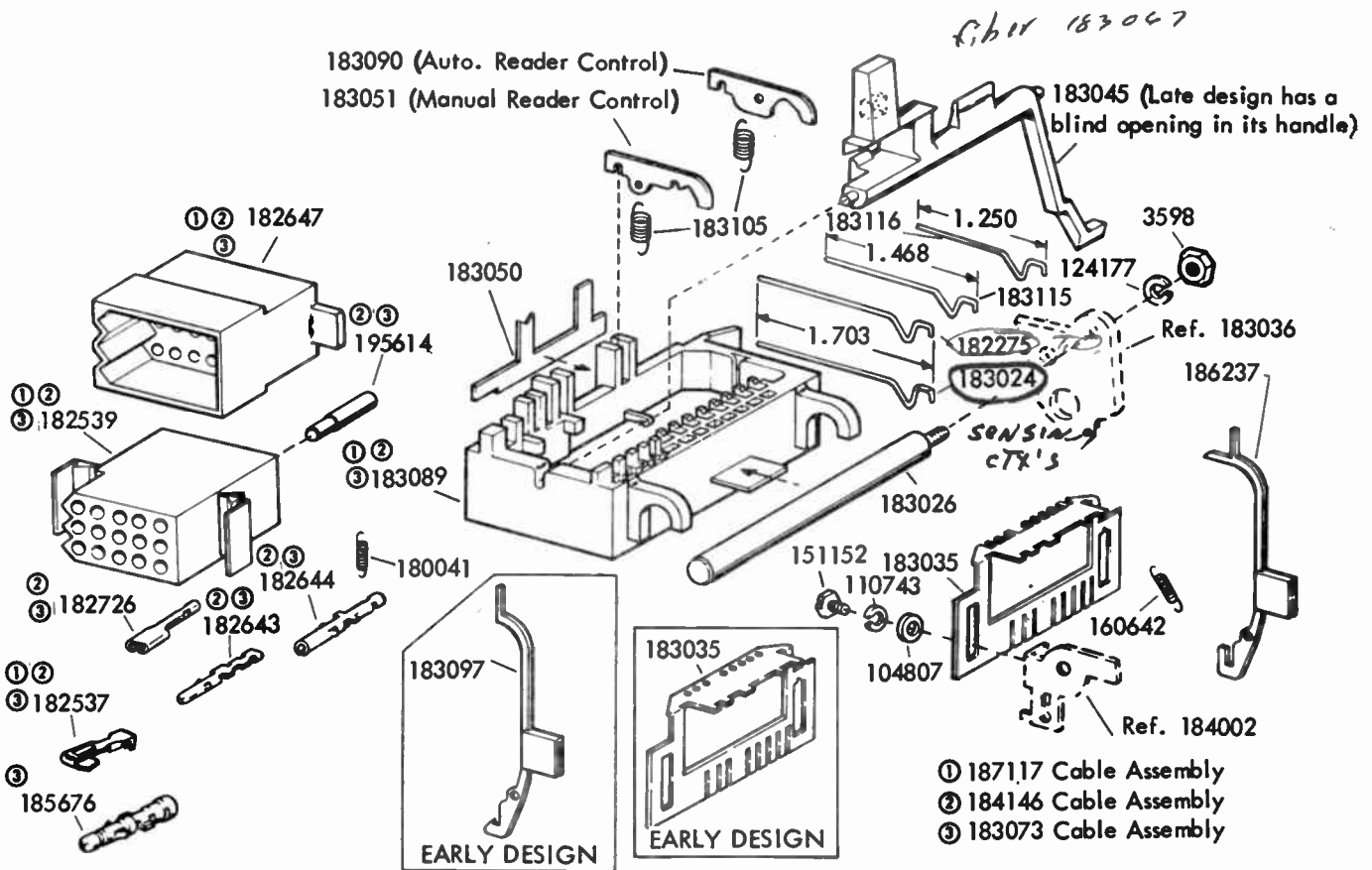


FIGURE 3. CONTACT BLOCK

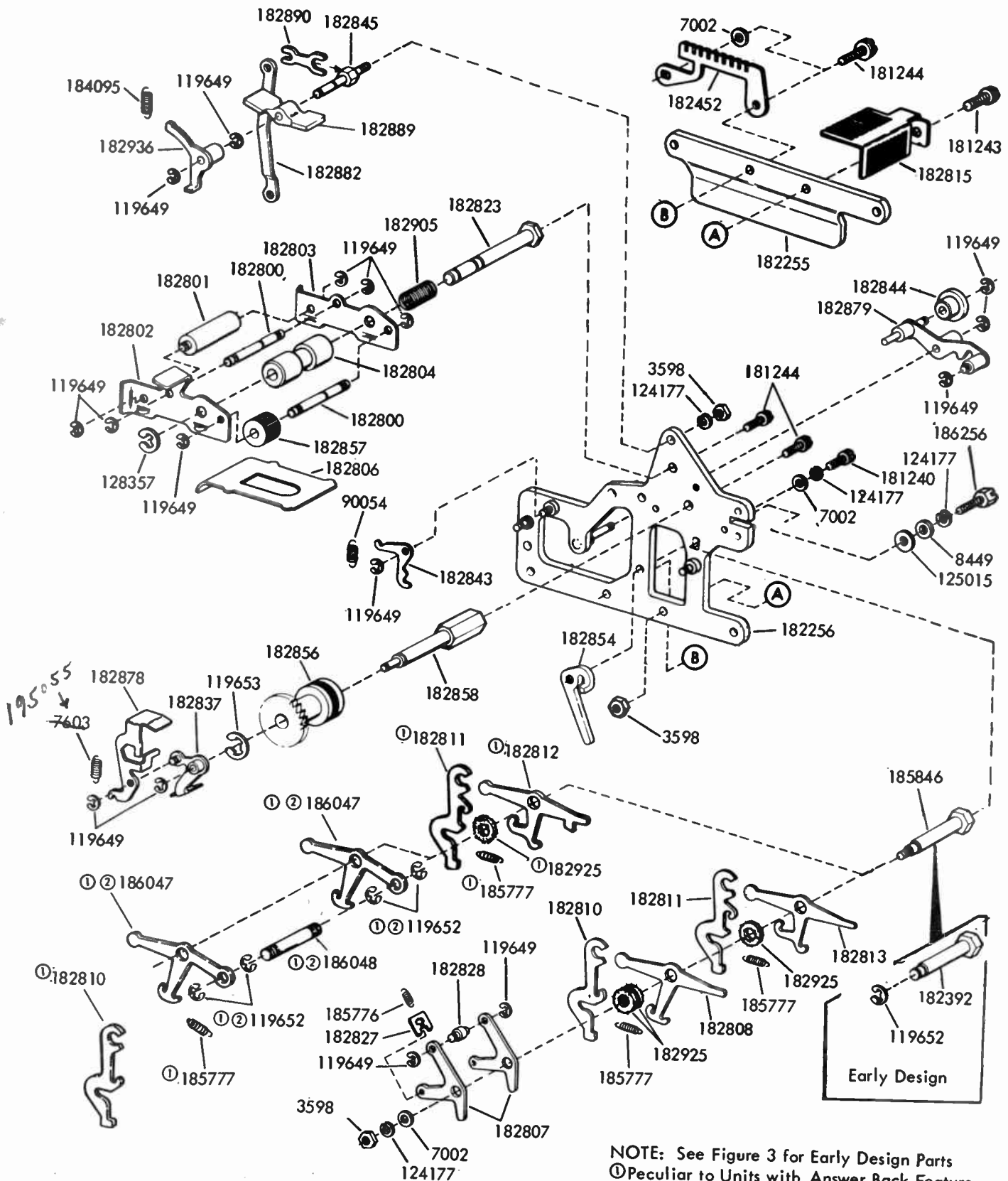
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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
277M	Coil, Magnet 3	182539	Connector, 15 Pt Receptacle Type 3	183050	Bar, Common 3
3598	Nut, 6-40 Hex 2,3	182643	Terminal, Plug Type 3	183051	Lever, Detent 3
42661	Spring 2	182644	Terminal, Receptacle Type 3	183061	Core, Magnet 3
75645	Screw, No. 0 x 1/8 Drive 2	182647	Connector, 12 Pt Plug Type 3	183064	Insulator, Tape Out Pin 2
90517	Spring 2	182726	Terminal, Receptacle Type 3	183070	Grommet, Spacer 2
104807	Washer, Flat 3	182851	Spacer, .062" Thk 2	183071	Wheel, Feed 2
110743	Washer, Lock 2,3	183004	Post, Spring 3	183073	Cable Assembly 3
111410	Washer, Flat 2	183011	Pawl, Feed 2	183089	Block, Contact 3
119649	Ring, Retaining 2	183015	Lever, Detent 2	183090	Lever, Detent 3
119651	Ring, Retaining 2,3	183016	Pawl, Blocking 2	183091	Post 2
119652	Ring, Retaining 2	183020	Bracket, Blocking Pawl 2	183092	Cup 2
121244	Clamp, 1/4 ID Cable 2	183023	Bracket, Detent 2	183095	Stud, Tape Guide 2
121246	Clamp 3/8 ID Cable 2	183024	Wire, Contact 3	183097	Pin, Sensing 3
124177	Washer, Lock 2,3	183025	Bracket 2	183104	Spring 3
125015	Washer, Flat 2	183026	Post, Contact Block 3	183105	Spring 3
151152	Screw, 4-40 x 3/16 Hex 3	183027	Shaft, Feed Wheel 2	183106	Spring 2
151880	Nut, 4-40 Hex 2,3	183029	Latch, Spring 2	183111	Label 3
152893	Screw, 4-40 x 1/4 Hex 3	183032	Lid, Tape 2	183115	Wire, Contact 3
158148	Washer, Felt 2	183033	Bail, Tight Tape 2	183116	Wire, Contact 3
160642	Spring 3	183034	Lever, Tight Tape 2	183133	Bracket 2
172993	Spring 2	183035	Guide, Sensing Pin 3	183136	Plate 3
180041	Spring 3	183036	Plate, Back 2,3	184002	Armature 2,3
180902	Jumper, 3-1/2" Braided 2	183037	Screw, 4-40 Shoulder 3	184003	Shaft, Armature 3
181240	Screw w/Lockwasher, 6-40 x 3/16 Hex 2	183038	Bushing, Upstop 3	184101	Plate, Identification 2
181241	Screw w/Lockwasher, 6-40 x 5/16 Hex 2,3	183039	Buffer, Upstop 3	184104	Plate, Identification 2
181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 2	183041	Bracket, Upstop 3	184146	Cable Assembly 3
181991	Plate, Identification 2	183042	Spring, Compression 3	185676	Terminal, Plug Type 3
182251	Plate, Identification 2	183044	Pin, Tape Out 2	185792	Plate, Identification 2
182275	Wire, Contact 3	183045	Lever, Start-Stop 3	186235	Plate, Top 2,3
182537	Terminal, Tab Type 3	183048	Plate, Top 2	186237	Pin, Sensing 3
				187117	Cable Assembly 3
				195614	Pin, Key 3
				312918	Strap 2
				320410	Terminal, Spade Type 2
				320418	Terminal, Ring Type 2
				333147	Jumper, 1-3/4" Braided 2

32 TAPE PUNCH (UPE)

PARTS

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NOTE: See Figure 3 for Early Design Parts  
 ① Peculiar to Units with Answer Back Feature  
 ② 186076 Set of Parts

FIGURE 1. PUNCH MECHANISM

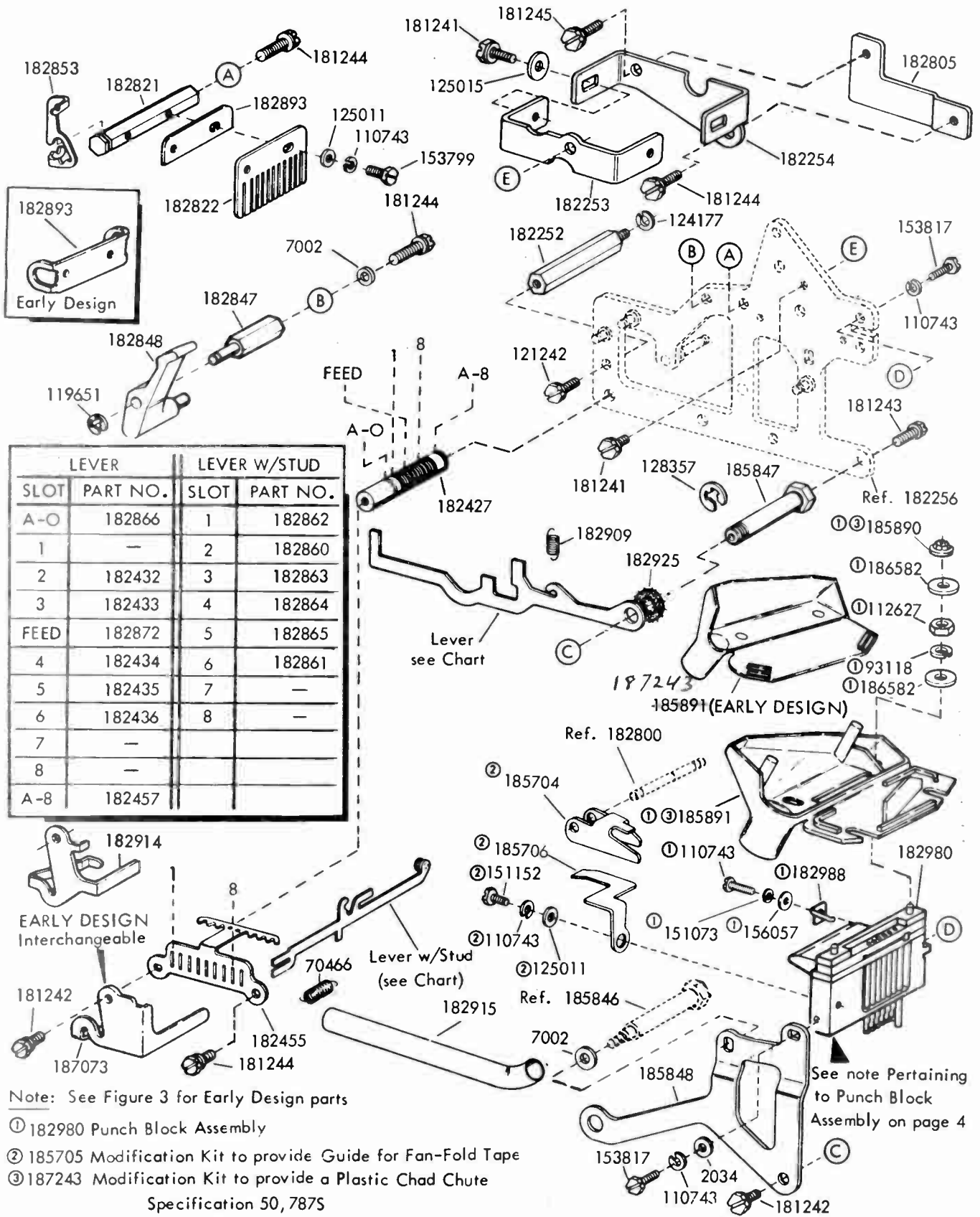
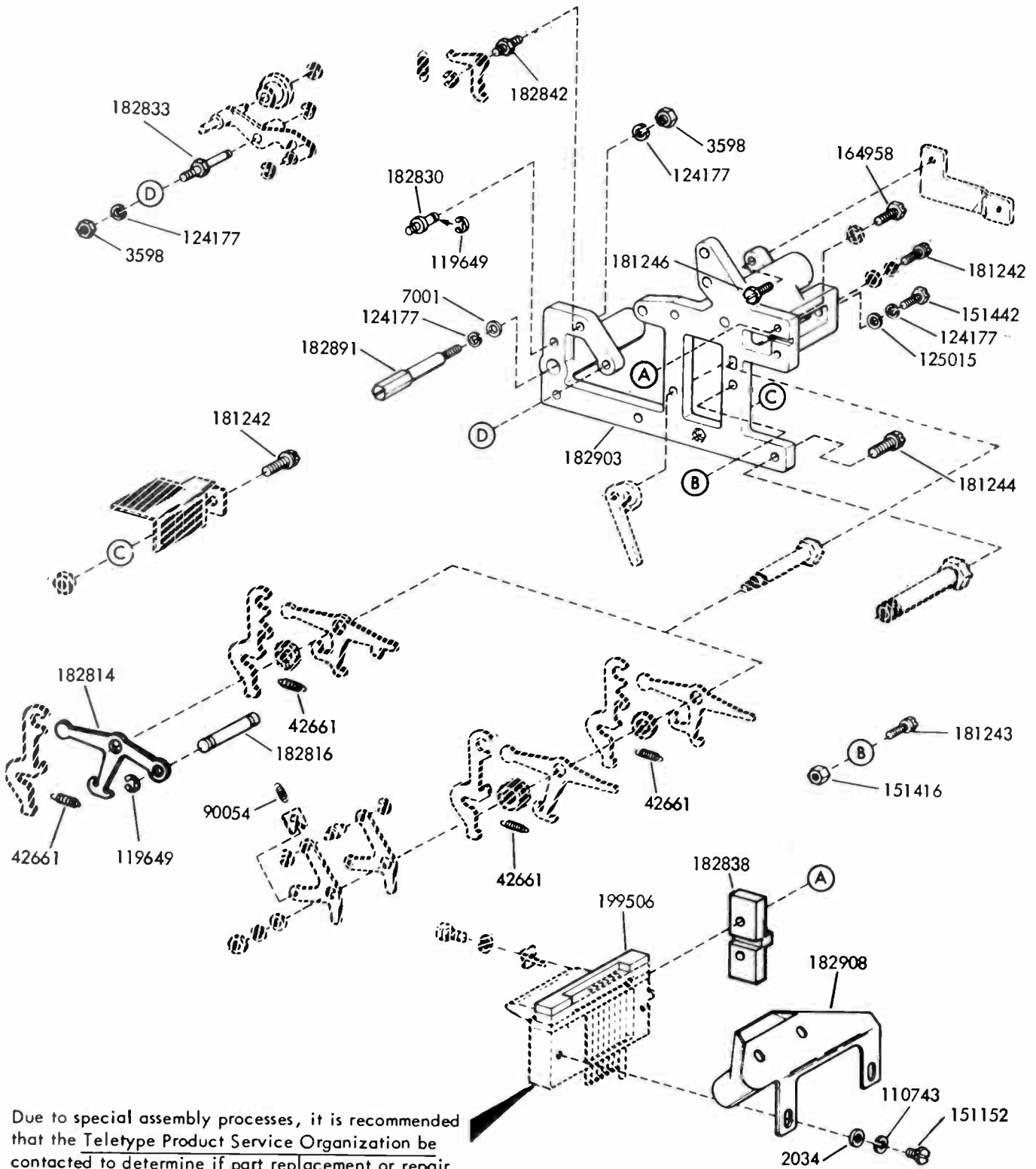


FIGURE 2. PUNCH MECHANISM (Continued)



Due to special assembly processes, it is recommended that the Teletype Product Service Organization be contacted to determine if part replacement or repair is possible on this portion of the Punch Block Assembly.

**NOTE:** This Figure represents Early Design parts. These parts are not individually interchangeable with Late Design parts shown in Figures 1 and 2.

FIGURE 3. PUNCH MECHANISM (Continued)



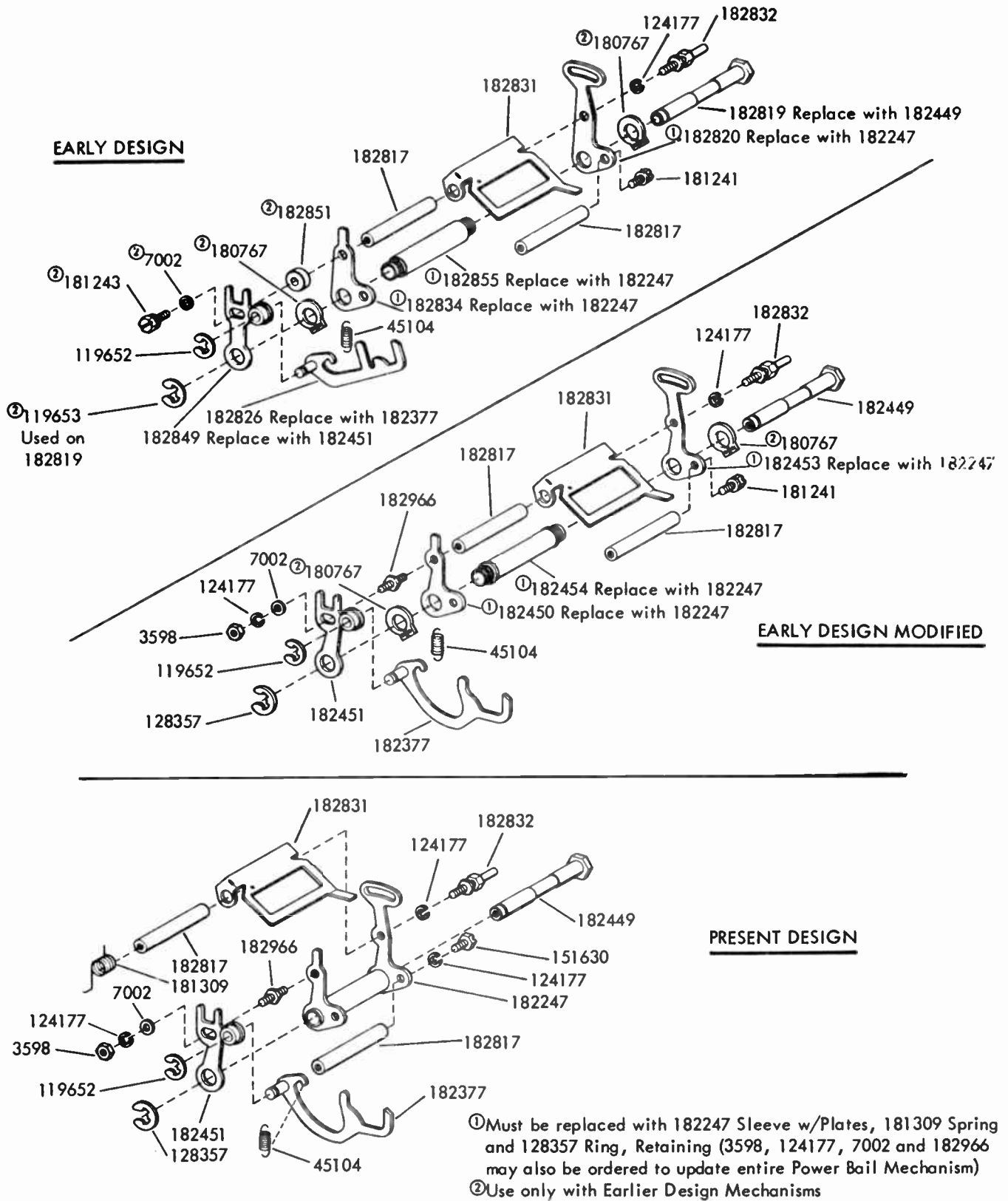


FIGURE 4. POWER BAIL MECHANISM

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
2034	Washer, Flat 3,4	182253	Bracket 3	182834	Plate 5
3598	Nut, 6-40 Hex 2,4,5	182254	Bracket 3	182837	Lever w/Post 2
7001	Washer, Flat 4	182255	Spacer 2	182838	Spacer 4
7002	Washer, Flat 2,3,5	182256	Plate 2,3	182842	Post 4
7603	Spring 2	182377	Pawl w/Stud 5	182843	Lever 2
8449	Spacer, 0.094" Thk 2	182392	Post 2	182844	Roller 2
42661	Spring 4	182427	Post 3	182845	Post 2
45104	Spring 5	182432	Lever 3	182847	Post 3
70466	Spring 3	182433	Lever 3	182848	Arm 3
90054	Spring 2,4	182434	Lever 3	182849	Plate w/Bushing 5
93118	Lockwasher 3	182435	Lever 3	182851	Spacer, 0.062" Thk 5
110743	Lockwasher 3,4	182436	Lever 3	182853	Hook 3
112627	Nut, 2-56 Hex 3	182449	Post 5	182854	Bracket 2
119649	Ring, Retaining 2,4	182450	Plate 5	182855	Lever 5
119651	Ring, Retaining 3	182451	Plate w/Bushing 5	182856	Wheel, 24T 2
119652	Ring, Retaining 2,5	182452	Guideplate 2	182857	Roller 2
119653	Ring, Retaining 2,5	182453	Plate 5	182858	Post 2
121242	Clamp, 1/8 ID Cable 3	182454	Sleeve 5	182860	Lever w/Stud 3
124177	Lockwasher 2,3,4,5	182455	Bracket 3	182861	Lever w/Stud 3
125011	Washer, Flat 3	182457	Lever 3	182862	Lever w/Stud 3
125015	Washer, Flat 2,3,4	182800	Post 2,3	182863	Lever w/Stud 3
128357	Ring, Retaining 2,3,5	182801	Roller 2	182864	Lever w/Stud 3
151073	Screw, 4-40 x 5/32 Fil 3	182802	Bracket 2	182865	Lever 3
151152	Screw, 4-40 x 3/16 Hex 3,4	182803	Plate 2	182866	Lever 3
151416	Nut, 6-40 Hex 4	182804	Sleeve 2	182872	Lever 3
151442	Screw, 6-40 x 1/2 Hex 4	182805	Plate 3	182878	Lever 2
151630	Screw, 6-40 x 1/4 Hex 5	182806	Plate 2	182879	Lever 2
153799	Screw, 4-40 x 21/64 Hex 3	182807	Lever 2	182882	Link 2
153817	Screw, 4-40 x 3/8 Hex 3	182808	Lever 2	182889	Lever 2
156057	Washer, Flat 3	182810	Pawl 2	182890	Plate 2
164958	Screw, 4-40 x 1/2 Hex 4	182811	Pawl 2	182891	Screw, 6-40 Spl 4
180767	Ring, Retaining 5	182812	Lever 2	182893	Bracket 3
181240	Screw w/Lockwasher, 6-40 x 3/16 Hex 2	182813	Lever 2	182903	Casting 4
181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 3,5	182814	Lever 4	182905	Spring, Compression 2
181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 3,4	182815	Bracket 2	182908	Chute, Chad 4
181243	Screw w/Lockwasher, 6-40 x 3/8 Hex 2,3,4,5	182816	Shaft 4	182909	Spring 3
181244	Screw w/Lockwasher, 6-40 x 7/16 Hex 2,3,4	182817	Post 5	182914	Bracket 3
181245	Screw w/Lockwasher, 6-40 x 1/2 Hex 3	182819	Post 5	182915	Extension 3
181246	Screw w/Lockwasher, 6-40 x 5/8 Hex 4	182820	Plate 5	182925	Washer, Felt 2,3
181309	Spring, Torsion 5	182821	Post 3	182936	Arm w/Bushing 2
182247	Sleeve w/Plates 5	182822	Plate 3	182966	Stud 5
182252	Post 3	182823	Post 2	182980	Block, Punch 3
		182826	Pawl w/Stud 5	182988	Spring, Punch Block 3
		182827	Plate 2	184095	Spring 2
		182828	Roller 2	185704	Depressor, Tape 3
		182830	Post, Spring 4	185705	Modification Kit 3
		182831	Bail 5	185706	Bracket 3
		182832	Post 5	185776	Spring 2
		182833	Post 4	185777	Spring 2

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
185846	Post 2,3	185891	Chute, Chad 3	186256	Screw, 6-40 Spl 2
185847	Post 3	186047	Lever 2	186582	Washer, Flat 3
185848	Plate 3	186048	Shaft 2	187073	Bracket 3
185890	Pushnut 3	186076	Set of Parts 2	187243	Modification Kit 3
				199506	Gasket 4



32 COVER AND TABLE

PARTS

FIGURE	CONTENTS	PAGE
1	Printer Covers	2
2	Punch Cover and Base	3
3	Reader Cover and Base	4
4	Faceplates	5
5	Cover and Tape Storage Bin	6
6	Cabinet	7
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8	183976 Adjustable Copyholder Assembly	9
9	182134 Reader Power Pack Assembly	10
10	186765 (Manual) and 186766 (Automatic) Reader Power Pack Assemblies	10
11	181720 Power Pack Assemblies	11
12	184074 Outlet Box Assembly	12
13	183859 Modification Kit to Provide paper Supply and Accumulating Shelf	13
14	186226 Modification Kit to Provide Mobility for Cabinet	14
	Numerical Index	15

NOTE: Painted part color,  
HF - Smooth Vinyl Light Olive Gray

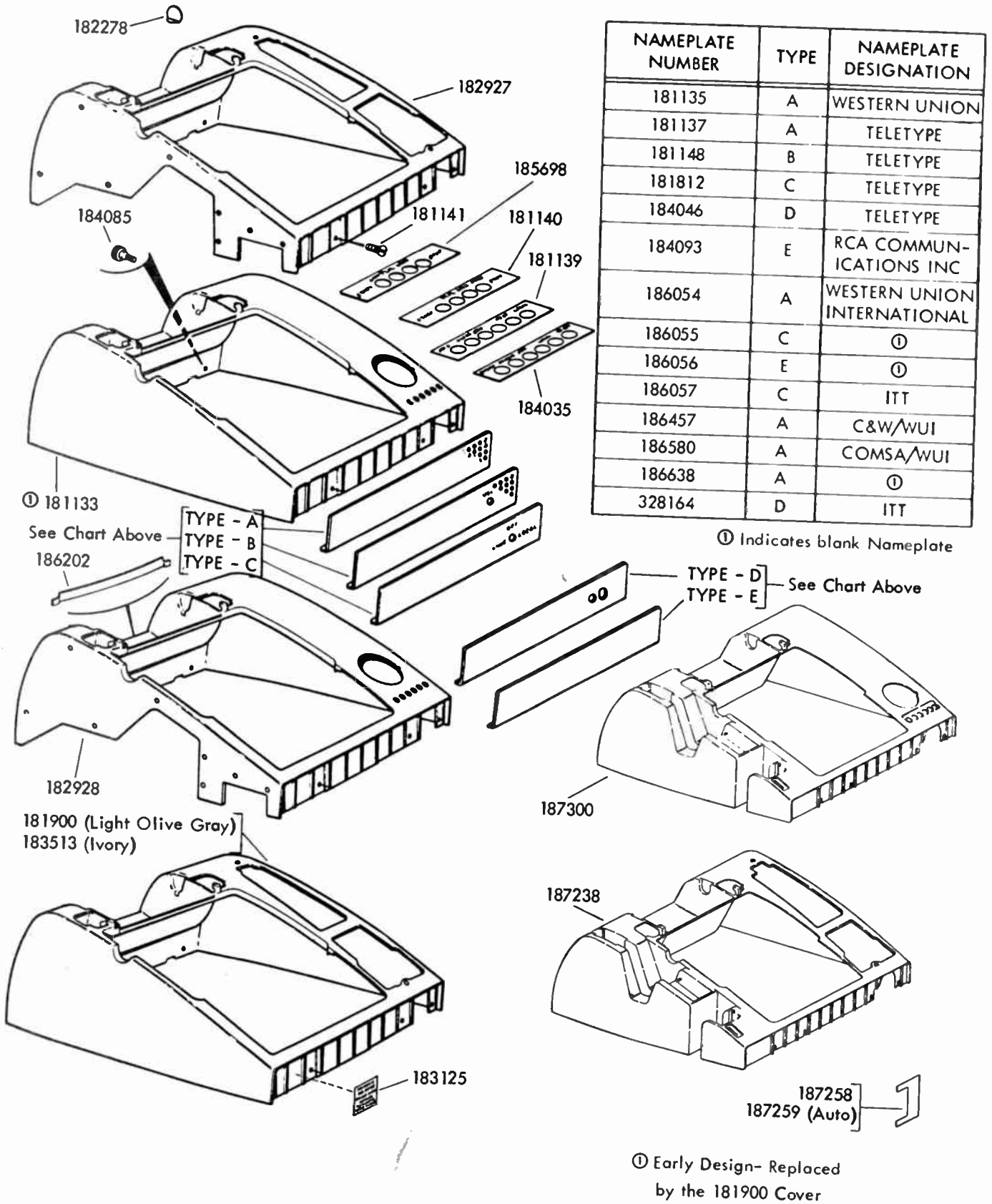


FIGURE 1. PRINTER COVERS

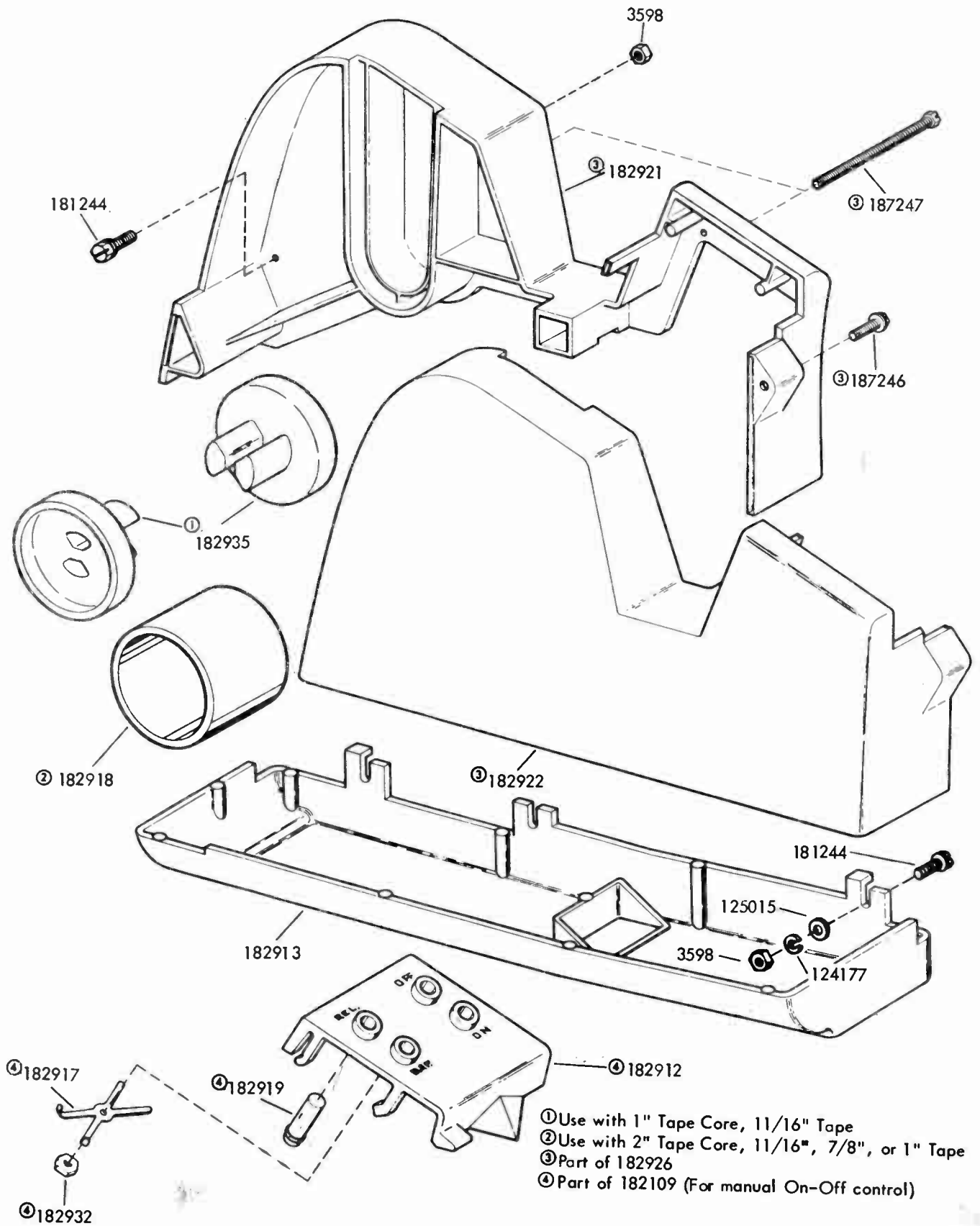
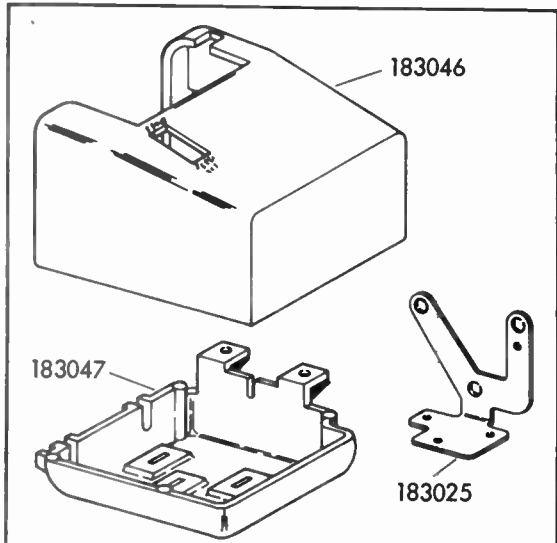
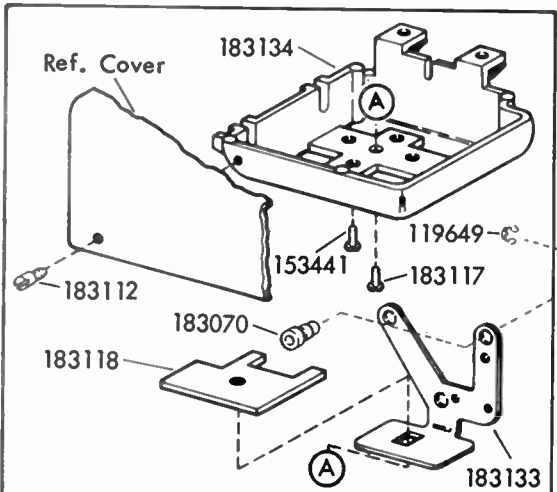


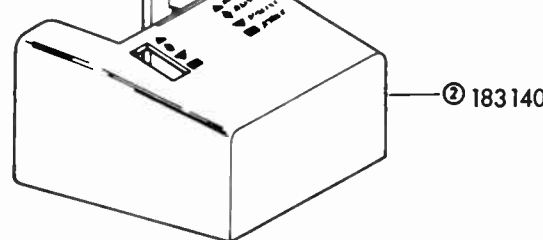
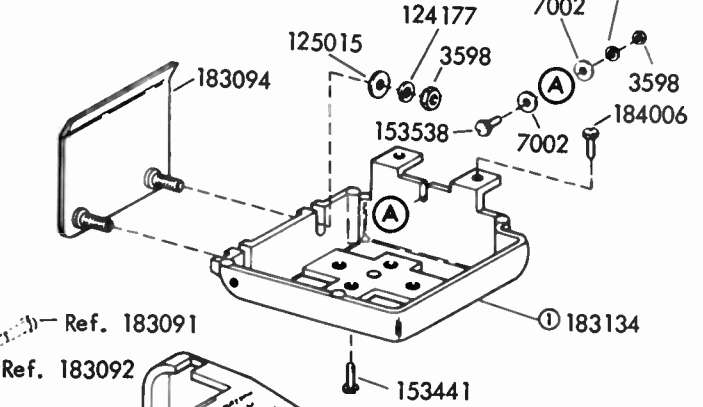
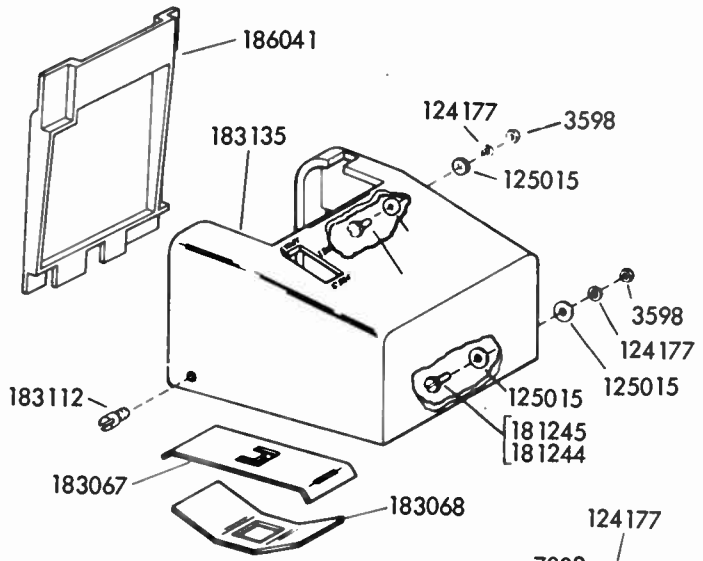
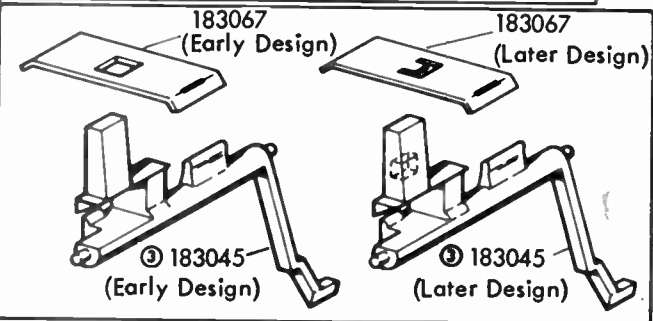
FIGURE 2. PUNCH COVER AND BASE



Early design parts that are no longer available. To replace one or all you must order the 183138 modification kit shown below.



183138 Modification Kit to provide improved reader mounting on early design ASR sets. Original cover can be modified to accept this kit. SPECIFICATION 503355



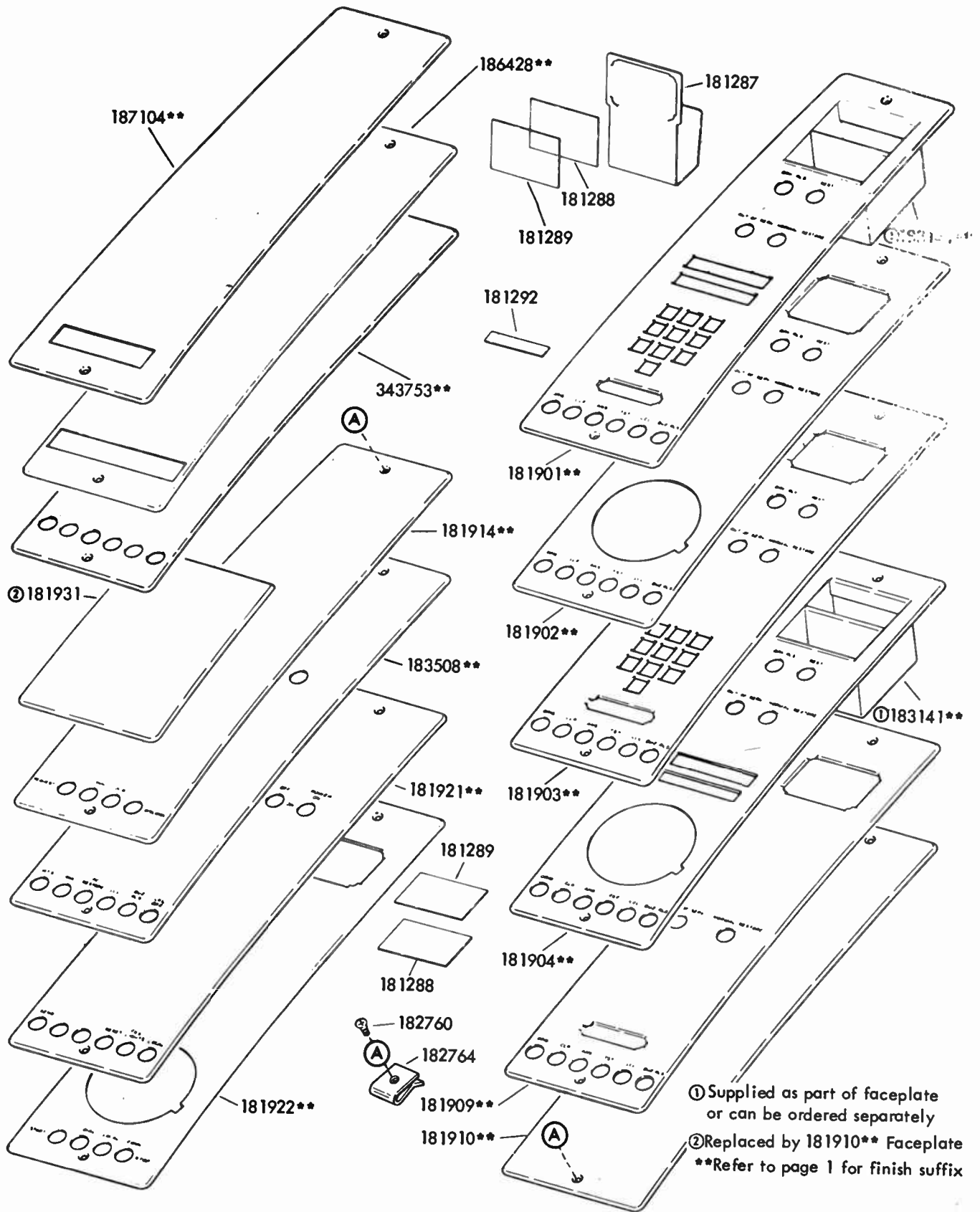
① A new 185700 laminated sheet steel base has been designed to replace the three individual castings mounting the typing unit with motor, keyboard and associated call control unit, the perforator, and the reader. However, the 183134 base (shown on this figure) is still available for replacement purposes

② Automatic reader control cover

③ The 183067 shield and the 183045 start & stop lever have been redesigned but retain their original numbers. The new style lever can be used with the old style shield but the new style shield must be used with the new style lever

FIGURE 3. READER COVER AND BASE





① Supplied as part of faceplate or can be ordered separately  
 ② Replaced by 181910\*\* Faceplate  
 \*\*Refer to page 1 for finish suffix

FIGURE 4. FACEPLATES

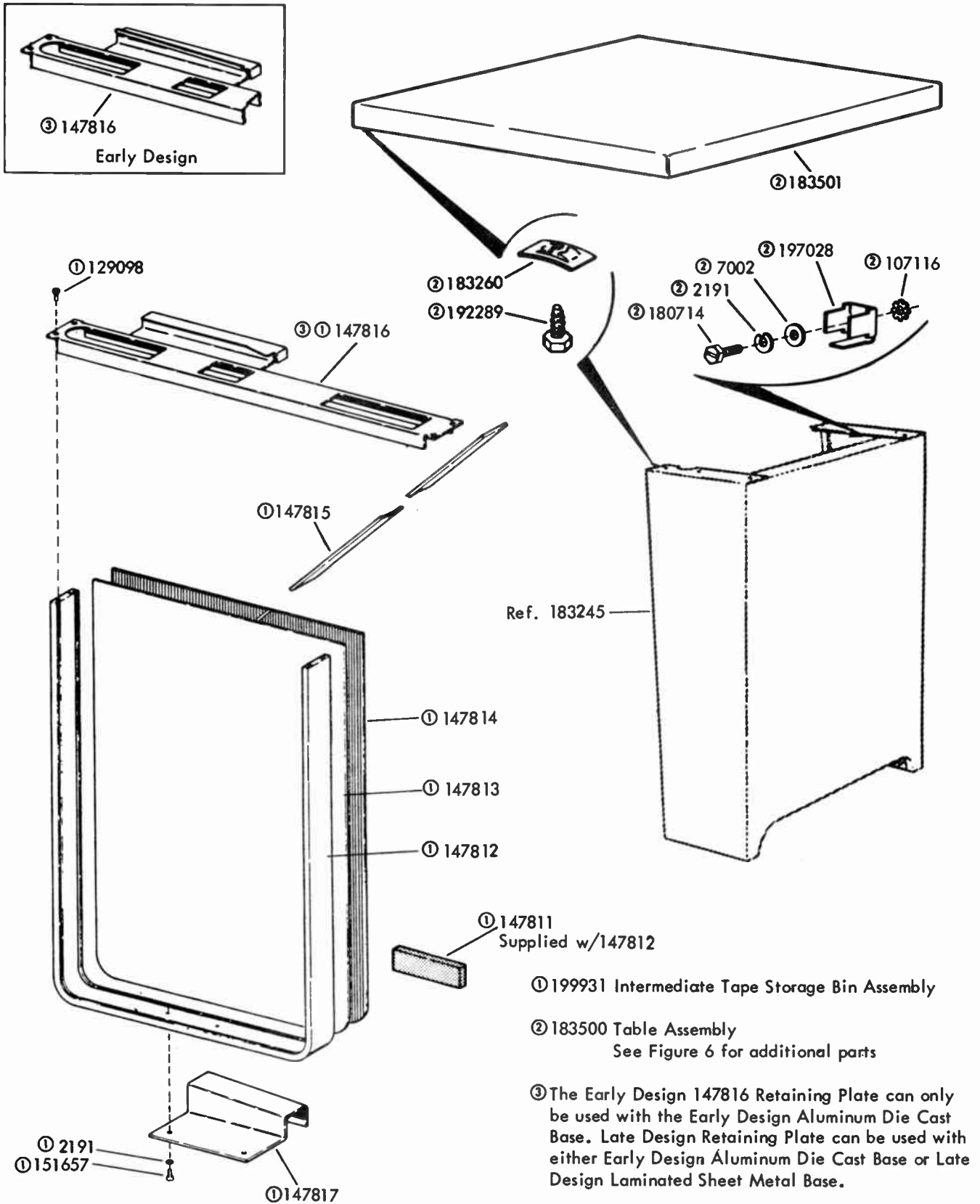
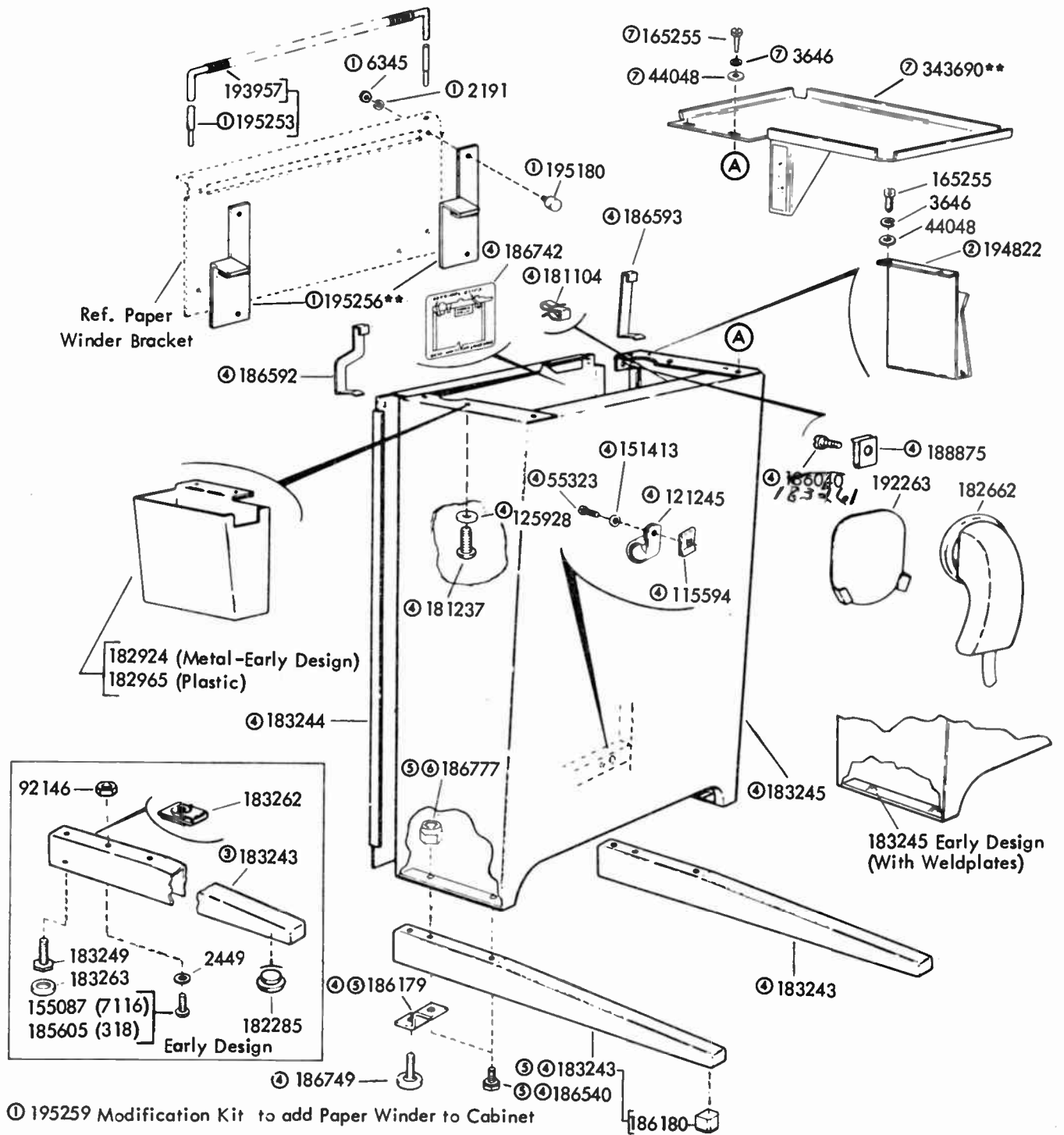


FIGURE 5. COVER AND TAPE STORAGE BIN



① 195259 Modification Kit to add Paper Winder to Cabinet

② The 194822 Directory Holder has been changed by including two 6 inch strips of double sided adhesive backed tape, eliminating the need for mounting hardware.

③ The Early Design 183243 Foot w/Brackets is no longer available. When replacing an Early Design Foot w/Brackets, Order the 186203 S.O.P.

④ 183500 Table Assembly, see Figure 5 for additional parts.

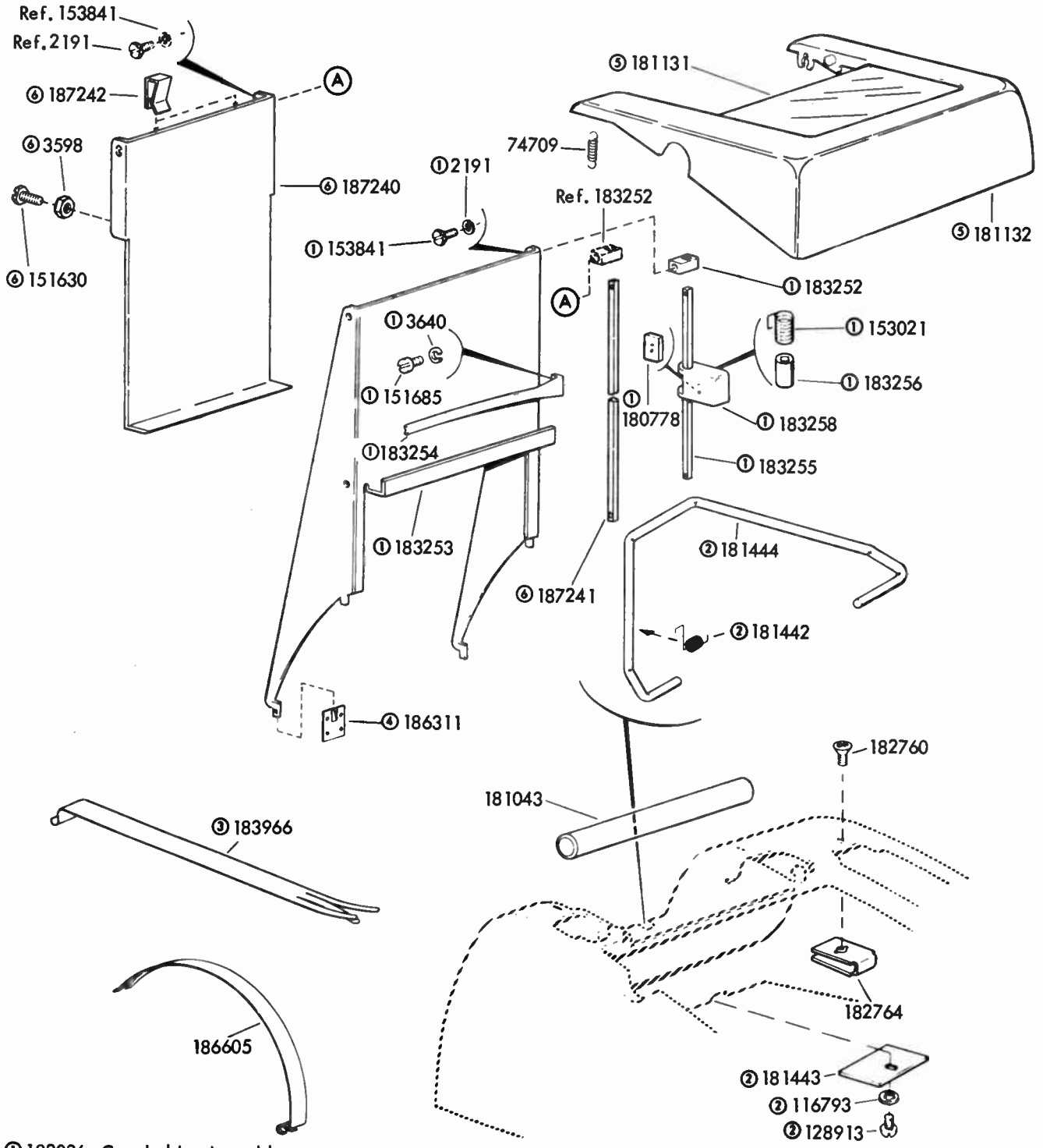
⑤ 186203 S.O.P. to Provide Replacement Foot w/Bumper

⑥ The 186777 self-locking nut cannot be used on Early Design 183245 lower cabinets (With Weldplates)

⑦ 343691\*\* Modification Kit to Provide a Shelf Assembly

\*\*Refer to page 1 for finish suffix

FIGURE 6. CABINET



① 182036 Copyholder Assembly

② Used with Sets having Low Paper Alarm

③ No longer available. Order 186605 Paper Deflector

④ 186312 SOP to Provide Cover Repair Bracket for Copyholder

⑤ The 181131 Lid Window has been redesigned by adding nine holes to enable heat staking to the Lid rather than cementing as on the Early Design. Early and Late Design Lids w/ Window are interchangeable. If however, a Late Design Lid w/Window needs a replacement Window, a 181132 Lid w/Window must be ordered.

⑥ 187239 Modification Kit To Extend Copyholder

FIGURE 7. LID AND COPYHOLDER

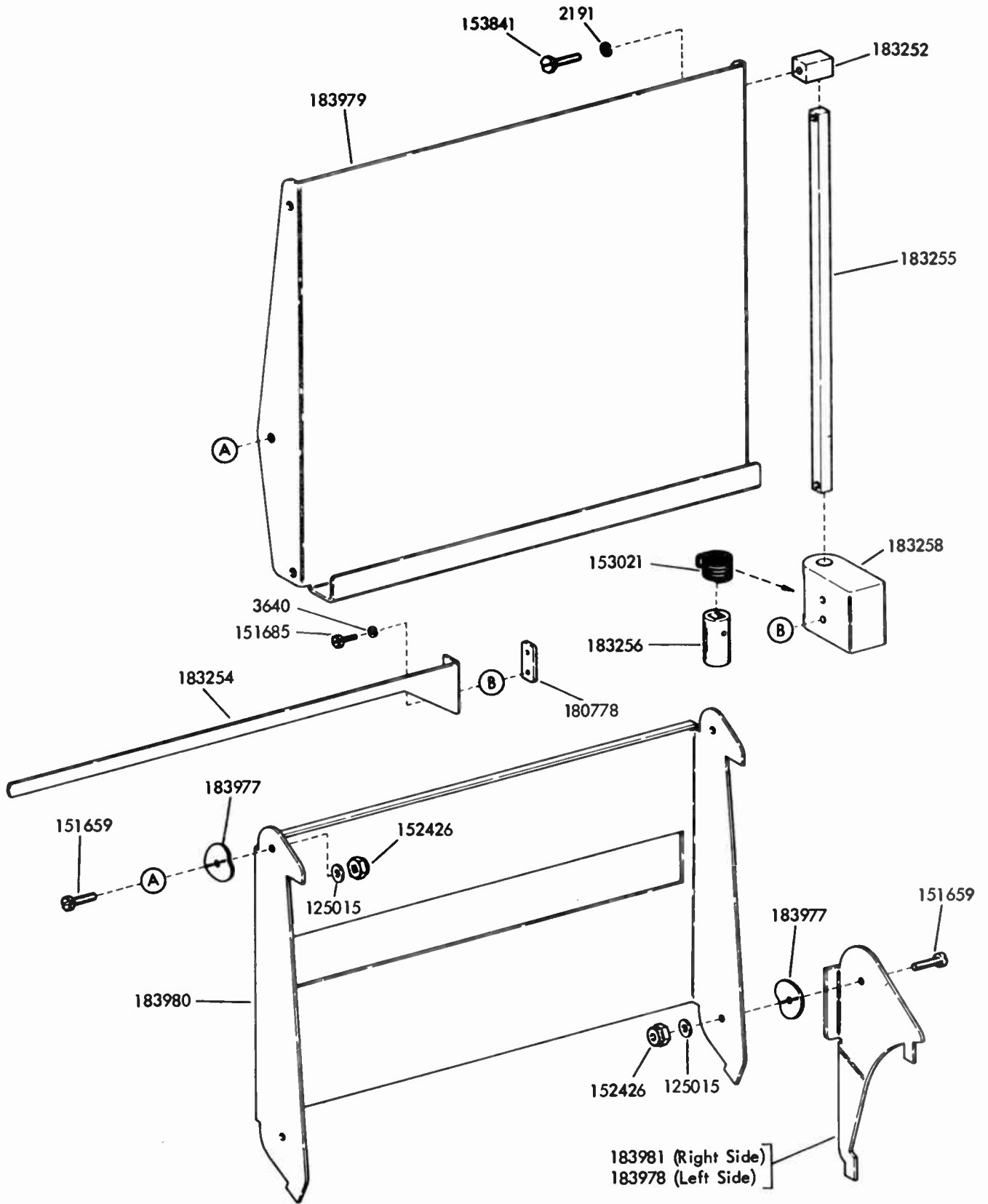


FIGURE 8. 183976 ADJUSTABLE COPYHOLDER ASSEMBLY

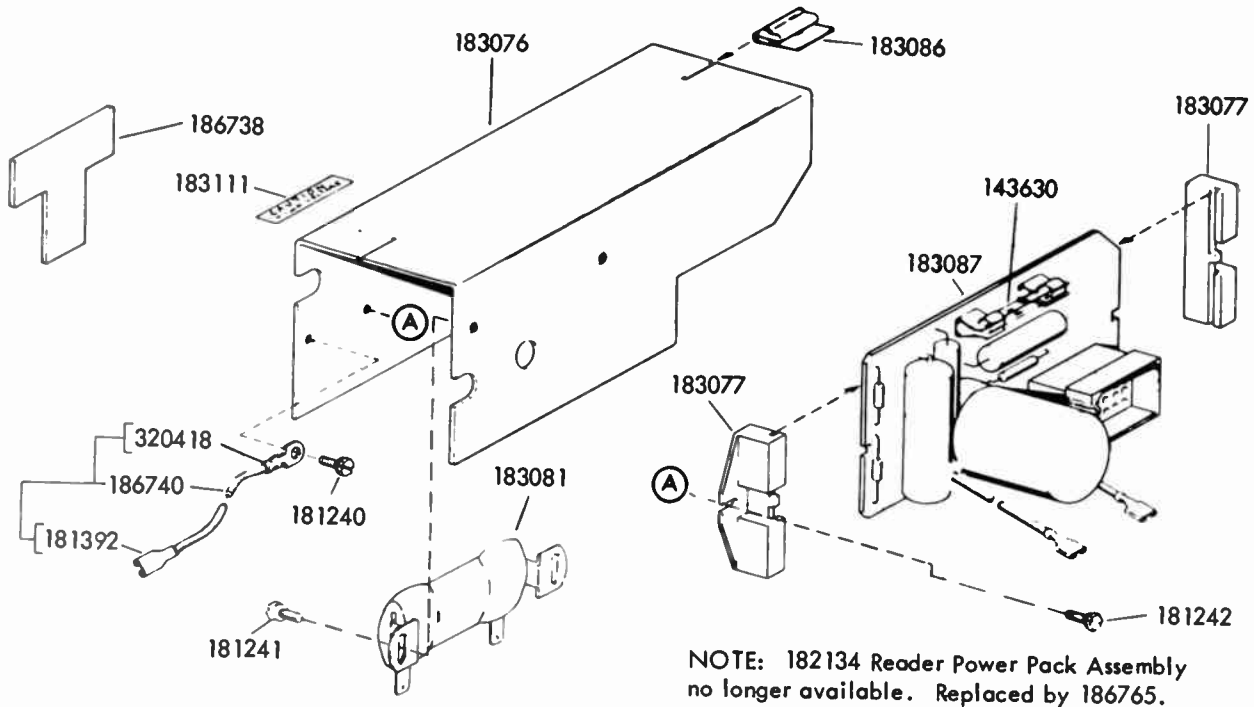


FIGURE 9. 182134 READER POWER PACK ASSEMBLY

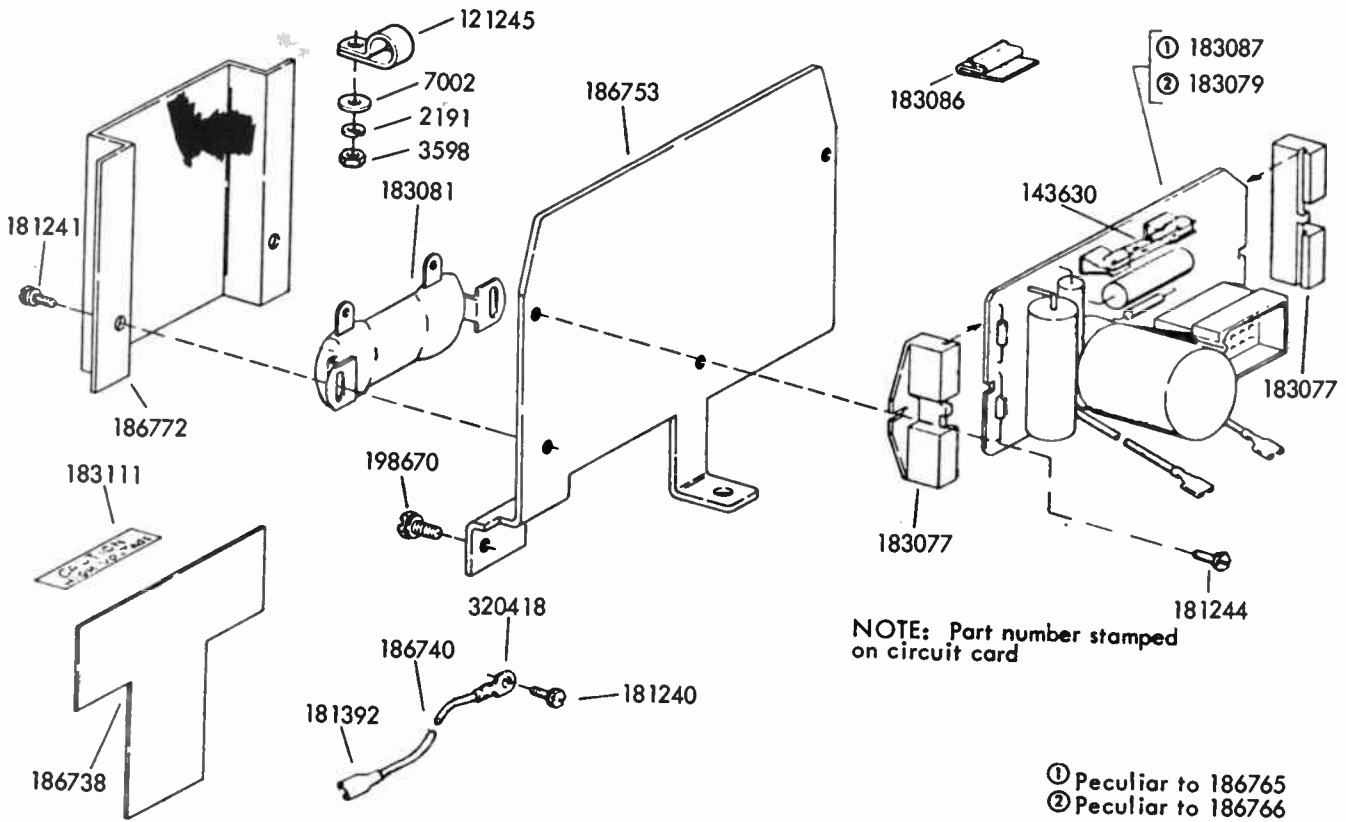


FIGURE 10. 186765 (MANUAL) AND 186766 (AUTOMATIC) READER POWER PACK ASSEMBLIES

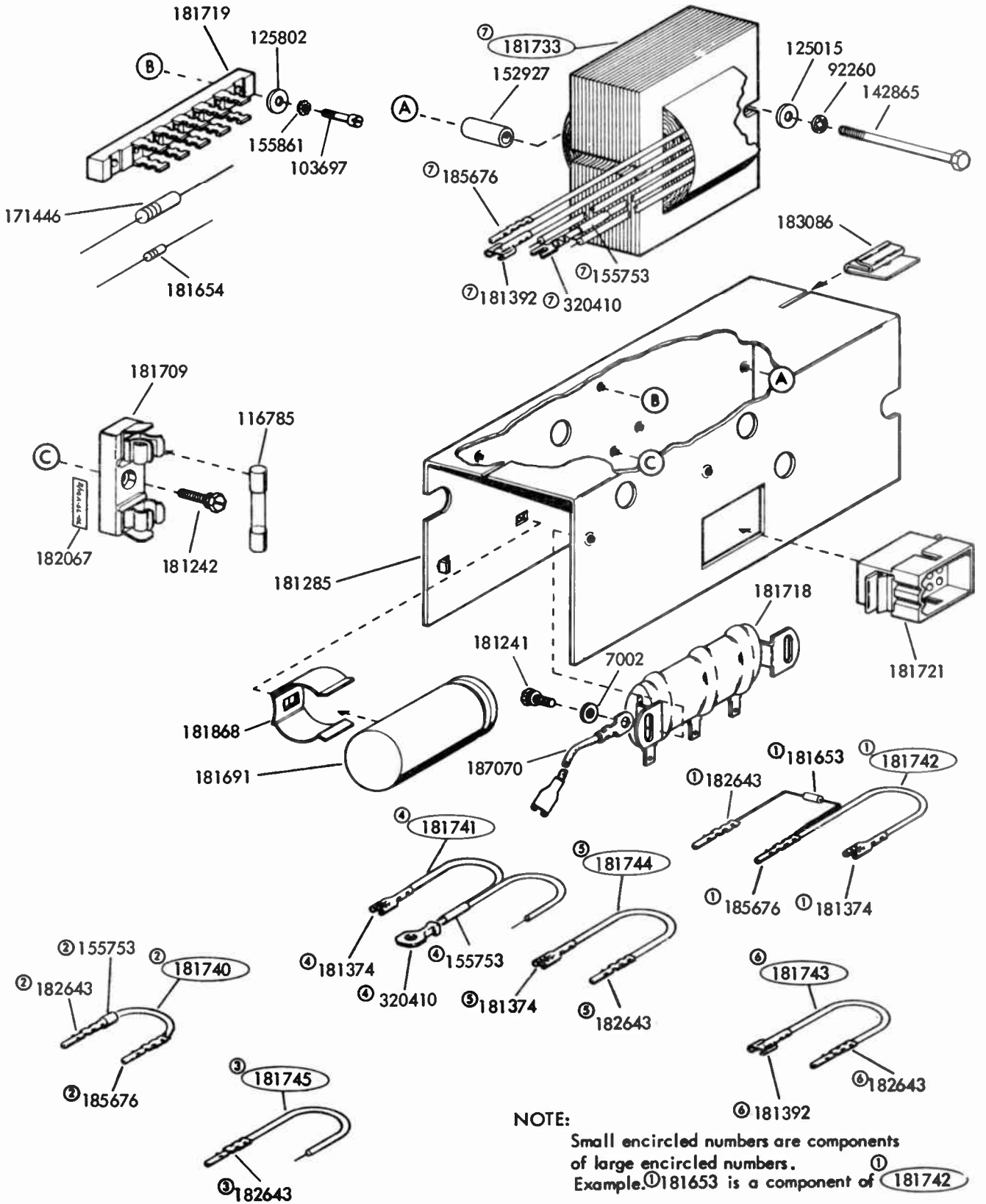


FIGURE 11. 181720 POWER PACK ASSEMBLY

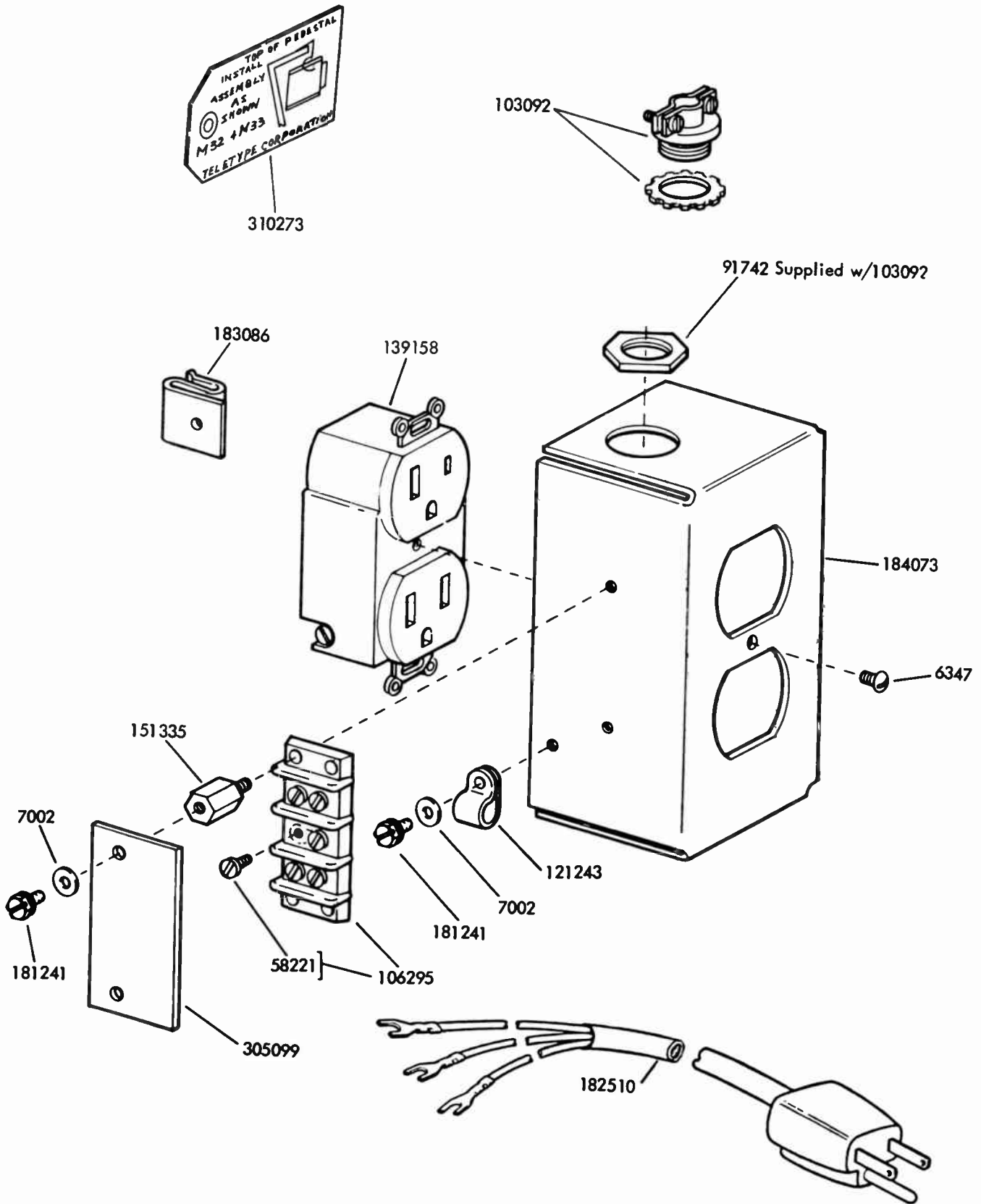


FIGURE 12. 184074 OUTLET BOX ASSEMBLY



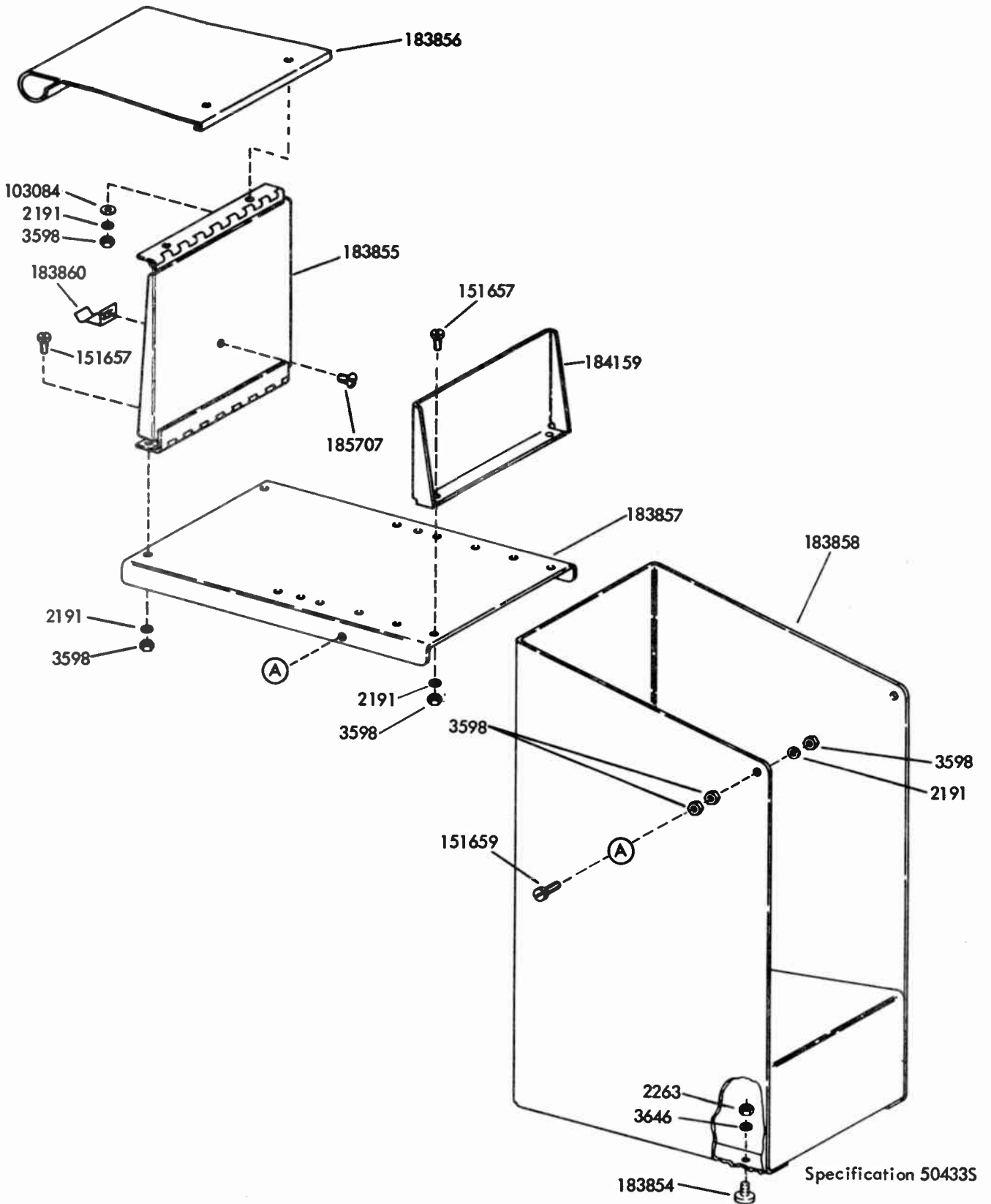
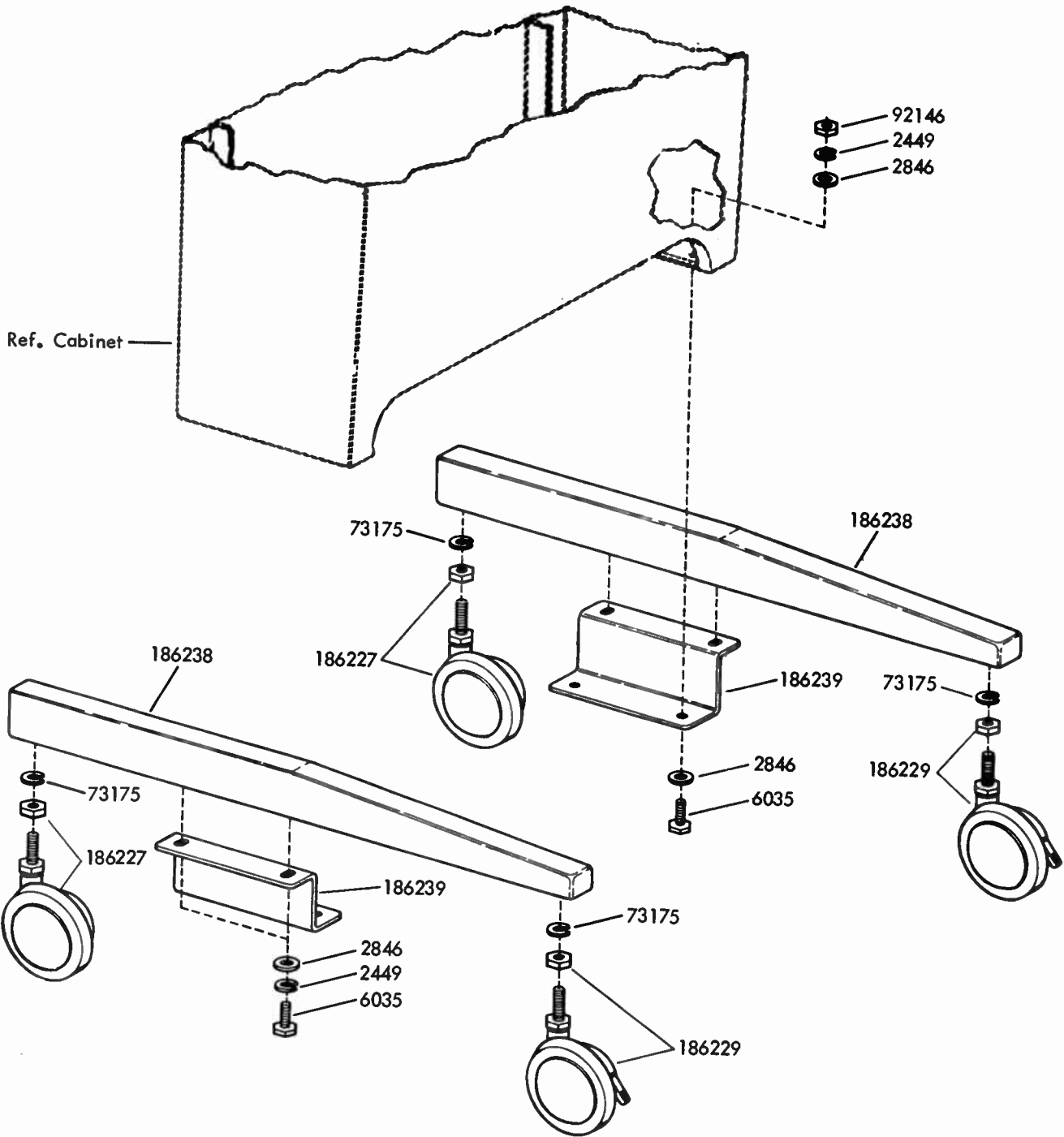


FIGURE 13. 183859 MODIFICATION KIT TO PROVIDE PAPER SUPPLY AND ACCUMULATING SHELF



Specification 506265

FIGURE 14. 186226 MODIFICATION KIT TO PROVIDE MOBILITY FOR CABINET

## NUMERICAL INDEX

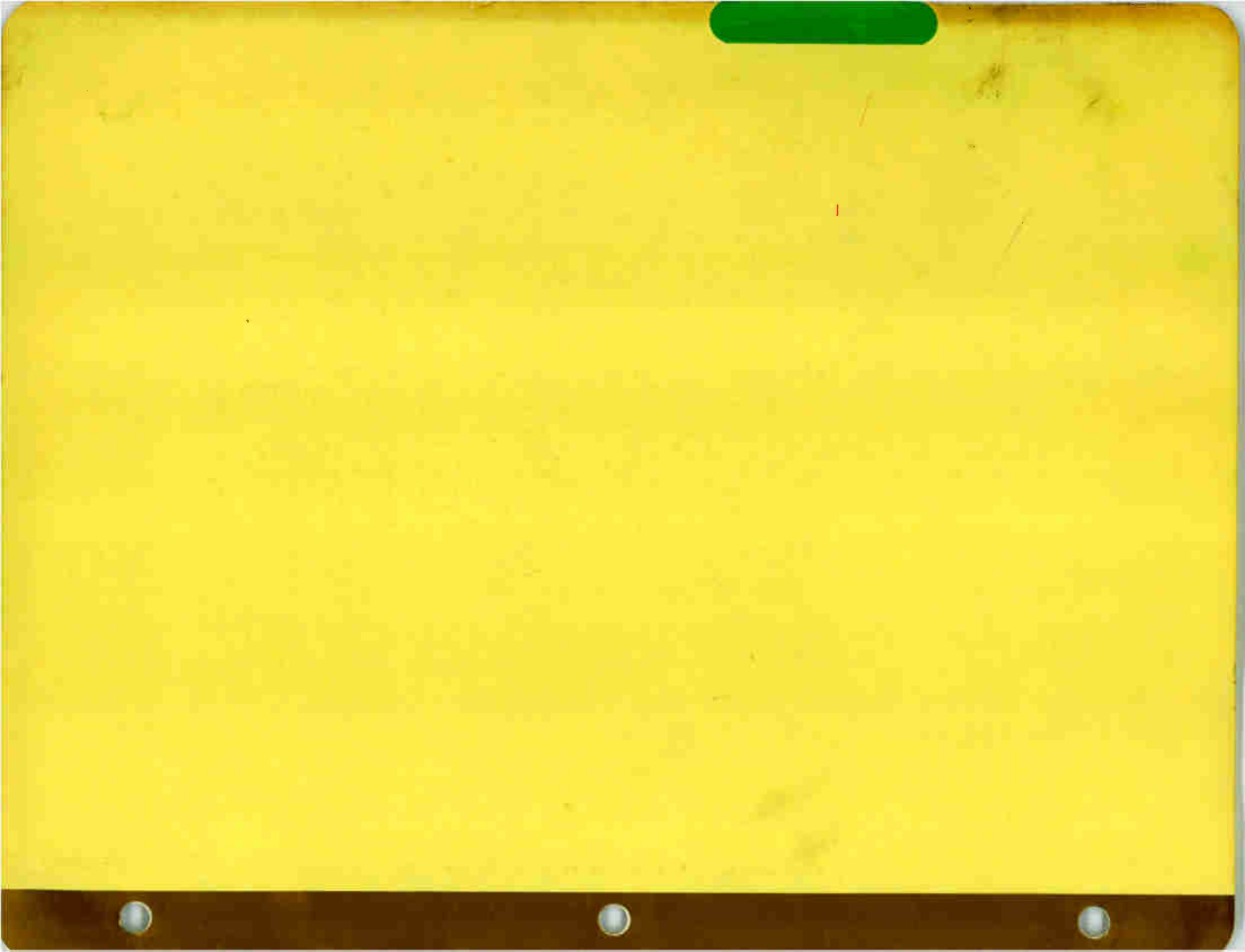
Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
2191	Lockwasher 6 to 10,13	147817	Guide, Tape Bin 6	181245	Screw w/Lockwasher, 6-40 x 1/2 Hex 4
2263	Nut, 8-32 Hex 13	151335	Stud 12	181285	Cover, Mounting 11
2449	Lockwasher 7,14	151413	Washer, Flat 7	181287	Holder, Card 5
2846	Washer, Flat 14	151630	Screw, 6-40 x 1/4 Hex 8	181288	Label, White 5
3598	Nut, 6-40 Hex 3,4,8,9,10,13	151657	Screw, 6-40 x 1/4 Fil 6,13	181289	Window, Plastic 5
3640	Lockwasher 8,9	151659	Screw, 6-40 x 1/2 Fil 9,13	181292	Window, Plastic 5
3646	Lockwasher 7,13	151685	Screw, 4-40 x 5/16 Fil 8,9	181374	Terminal, Tab Type 11
6035	Screw, 1/4-20 x 5/8 Hex 14	152426	Nut, 6-40 Self-Locking 9	181392	Terminal, Tab Type 10,11
6345	Nut, 6-32 Hex 7	152927	Bushing 11	181442	Spring, Torsion 8
6347	Screw, 6-32 x 3/8 Rd 12	153021	Spring, Torsion 8,9	181443	Plate, Clamp 8
7002	Washer, Flat 4,6,10,11,12	153441	Screw, 10-32 x 7/16 Hex 4	181444	Rod, Sensing 8
44048	Washer, Flat 7	153538	Screw, 6-40 x 7/16 Hex 4	181653	Diode 11
55323	Screw, 8-32 x 1/2 Rd 7	153841	Screw, 6-40 x 9/16 Hex 8,9	181654	Diode 11
58221	Screw, 6-32 x 1/4 Fil 12	155087	Screw, 1/4-20 x 7/16 Rd 7	181691	Capacitor, 150 MFD 11
73175	Lockwasher 14	155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 11	181709	Holder, Fuse 11
74709	Spring 8	155861	Lockwasher 11	181718	Resistor, 2,000 - 10,000 Ohms 11
91742	Locknut 12	165255	Screw, No. 8 Spl 7	181719	Strip, Terminal 11
92146	Nut, 1/4-20 Hex 7,14	171446	Resistor, 120 Ohm 11	181720	Power Supply 1,11
92260	Lockwasher 11	180714	Screw, No. 6 Self-Tapping 6	181721	Connector, 12 Pt Plug Type 11
103084	Washer, Flat 13	180778	Plate 8,9	181733	Transformer 11
103092	Connector, Cord 12	181043	Spindle, Paper Roll 8	181740	thru
103697	Screw, 4-40 x 7/16 Fil 11	181104	Clip, Cable 7	181745	Cable Assembly 11
106295	Block, Terminal 12	181131	Window, Lid 8	181812	Nameplate 2
107116	Lockwasher 6	181132	Lid w/Window 8	181868	Clip, Speed 11
115594	Nut, Speed 7	181133	Cover 2	181900	Cover 2
116785	Fuse, .3 Amp 11	181135	Nameplate 2	181901**	Faceplate 5
116793	Lockwasher 8	181137	Nameplate 2	181902**	Faceplate 5
119649	Ring, Retaining 4	181139	Label, Designation (Bell) 2	181903**	Faceplate 5
121243	Clamp, 3/16" ID Cable 12	181140	Label, Designation (W.U.) 2	181904**	Faceplate 5
121245	Clamp, 5/16" ID Cable 7,10	181141	Screw, 8-32 Spl 2	181909**	Faceplate 5
124177	Lockwasher 3,4	181148	Nameplate 2	181910**	Faceplate 5
125015	Washer, Flat 3,4,9,11	181237	Screw, 1/4-14 Self-Tapping 7	181914**	Faceplate 5
125802	Washer, Flat 11	181240	Screw w/Lockwasher, 6-40 x 3/16 Hex 10	181921**	Faceplate 5
125928	Washer, Flat 7	181241	Screw w/Lockwasher, 6-40 x 1/4 Hex 10,11,12	181922**	Faceplate 5
128913	Screw, 8-32 Self-Tapping 8	181242	Screw w/Lockwasher, 6-40 x 5/16 Hex 10,11	181931	Faceplate 5
129098	Screw, 6-40 x 11/32 Flat 6	181244	Screw w/Lockwasher, 6-40 x 7/16 Hex 3,4,10	182036	Copyholder Assembly 8
139158	Connector, Duplex Receptacle 12			182067	Nameplate 11
142865	Screw, 6-40 x 2-1/32 Hex 11			182109	Lid Assembly 3
143630	Fuse, .75 Amp 10			182134	Power Pack 1,10
147811	Spacer, .250" Thk 6			182278	Support 2
147812	Frame, Tape Bin 6			182285	Bumper, Rubber 7
147813	Window, Left Side 6			182510	Cord, Power 12
147814	Window, Right Side 6			182643	Terminal, Plug Type 11
147815	Divider, Tape Bin 6			182662	Receiver 7
147816	Plate, Retaining 6			182760	Screw, 6-32 Spl 5,8
				182764	Nut, Speed 5,8

\*\*Refer to page 1 for finish suffix

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
182912	Lid 3	183262	Retainer, Nut 7	186428**	Faceplate 5
182913	Base, Cover 3	183263	Cap, Light Gray 7	186457	Plate 2
182917	Spring, Special 3	183500	Table Assembly 6,7	186540	Screw, 1/4-20 x 1/2 Spl 7
182918	Spindle 3	183501	Cover, Stand 6	186580	Plate 2
182919	Button 3	183508**	Faceplate 5	186592	Clip 7
182921	Cover, Right 3	183513	Cover 2	186593	Clip 7
182922	Cover, Left 3	183854	Foot 13	186605	Deflector, Paper 8
182924	Box, Chad 7	183855	Plate w/Hinges 13	186638	Nameplate 2
182926	Cover Assembly 3	183856	Guide, Paper 13	186738	Insulator 10
182927	Cover 2	183857	Shelf, Paper 13	186740	Jumper, 6" Green 10
182928	Cover 2	183858	Bin, Paper Supply 13	186742	Label 7
182932	Nut, Speed 3	183859	Modification Kit 1,13	186749	Bolt w/Cap 7
182935	Hub 3	183860	Clip, Spring 13	186753	Bracket 10
182965	Box, Chad 7	183966	Deflector, Paper 8	186765	Power Pack 1,10
183025	Bracket 4	183976	Copyholder Assembly 1,9	186766	Power Pack 1,10
183045	Lever, Start-Stop 4	183977	Washer, Spring 9	186772	Cover 10
183046	Cover 4	183978	Bracket, Left 9	186777	Nut, 1/4-20 Self-Locking 7
183047	Base 4	183979	Copyholder 9	187070	Jumper, 12" Green 11
183067	Shield 4	183980	Link 9	187104**	Faceplate 5
183068	Spring, Shield 4	183981	Bracket, Right 9	187238	Cover 2
183070	Grommet, Rubber 4	184006	Screw, 8-32 Self-Tapping 4	187239	Modification Kit 8
183076	Bracket, Rectifier 10	184035	Label, Designation 2	187240	Extension, Copyholder 8
183077	Clamp, Circuit Card 10	184046	Nameplate 2	187241	Shaft 8
183079	Card, Circuit 10	184073	Bracket, Outlet 12	187242	Clip 8
183081	Resistor, 850 Ohm 10	184074	Box Assembly, Outlet 1,12	187246	Screw, 8-18 x 1/2 Hex 3
183086	Clip 10,11,12	184074	Box Assembly, Outlet 1,12	187247	Screw, 8-18 x 2-1/2 Hex 3
183087	Card, Circuit 10	184085	Screw, 8-32 Thumb 2	187258	Label 2
183091	Post 4	184093	Nameplate 2	187259	Label 2
183092	Cup 4	184159	Bracket, Back Stop 13	187300	Cover 2
183094	Plate w/Studs 4	185605	Screw, 1/4-14 Self-Tapping 7	188875	Nut, Speed 7
183111	Label 10	185676	Terminal, Plug Type 11	192263	Holder, Handset 7
183112	Screw, 4-40 x 9/64 Fil 4	185698	Label, Designation 2	192289	Screw, 1/4-14 Self-Tapping 6
183117	Screw, 10-32 x 5/8 Hex 4	185700	Base 4	193957	Spring, Roller 7
183118	Plate, Clamp 4	185707	Screw, 10-24 x 5/16 Rd 13	194822	Holder, Directory 7
183125	Label 2	186040	Screw, No. 8 x 1/2 Spl 7	195180	Bumper, Rubber 7
183133	Bracket 4	186041	Cover 4	195253	Rack Assembly, Display 7
183134	Base 4	186054	Nameplate 2	195256**	Hanger 7
183135	Cover 4	186055	Nameplate 2	195259	Modification Kit 7
183138	Modification Kit 4	186056	Nameplate 2	197028	Terminal 6
183140	Cover 4	186057	Nameplate 2	198670	Screw, w/Lockwasher, 6-40 x 5/16 Hex 10
183141**	Holder, Card 5	186179	Bracket 7	199931	Bin Assembly, Tape Storage 6
183243	Foot w/Brackets 7	186180	Bumper, Rubber 7	305099	Cover, Insulating 12
183244	Panel 7	186202	Shield 2	310273	Tag, Instruction 12
183245	Cabinet, Lower 6,7	186203	Set of Parts 7	320410	Terminal, Spade Type 11
183249	Screw, 5/16-18 Spl 7	186226	Modification Kit 1,14	320418	Terminal, Ring Type 10
183252	Post 8,9	186227	Caster 14	328164	Plate 2
183253	Copyholder 8	186229	Caster w/Brake 14	343690**	Shelf 7
183254	Guide, Line 8,9	186238	Foot 14	343691**	Modification Kit 7
183255	Shaft 8,9	186239	Bracket 14	343753**	Faceplate 5
183256	Bushing 8,9	186311	Bracket 8		
183258	Handle, Copyholder 8,9	186312	Set of Parts 8		
183260	Nut, Speed 6				

\*\*Refer to page 1 for finish suffix



1954

1954



QUAN REQD	I. O. P. No	ITEM	DESCRIPTION	SPECS. OR DWG
	751000	ITEM	CARD 11506-A, REPEATER CONTROL UNIT	SPECS. 11506-
23,24,25	751008		Capacitor WNF, .01 mfd., 100VDC, +20%, (18) - Cornell-Dubilier Elec. Div. or 663 UW Goodall Electric Co.	
25,26	750992		Capacitor WNF, .1 mfd., 100VDC, +20%, (1P1) - Cornell-Dubilier Elec. Div. or 663 UW Goodall Electric Co.	
26	751004		Capacitor WNF, .1 mfd., 600VDC, +20%, - Cornell-Dubilier Elec. Div. or 663 UW Goodall Electric Co.	
22	750976		Capacitor WNF, .47 mfd., 200VDC, +20% (2P47) - Cornell-Dubilier Elec. Div. or 663 UW Goodall Electric Co.	
21	750985		Capacitor TAB, 1 mfd., 20VDC, +20% (TAB - 105 M02010A) - Mallory & Co., Inc. or 150-D (105-DX0020A2) Sprague Electric Co.	
29	663815		Capacitor 150-D, 10 mfd., 20 VDC, +20%, Style 2 (150-D 106X0020B2) Sprague Electric Co. or SCM (SCM - 106H0020B) TAYLOR INSTR.	
27,8	751271		Capacitor, 109125-151630, Electrolytic, 500 mfd., 25VDC <i>IT 181630</i>	Dwg. 109125
2	751040		Connector 1261R, 6-point (Electrical)	Molex Products, Co.
3	751057		Connector 1392P, 9-point (Electrical)	Molex Products, Co.
2	716377		Diode 1N647	Clevite, T.I. or equiv.
5	711937		Diode 1N645	Sarotona Industries, Clevite, T.I. or equiv.
2	587557		Diode 1N582	Clevite, T.I. or equiv.
9	710314		Pad #S005, Transistor	U.S. Dielectric Prod., Inc.
1	751247		Potentiometer K49842, 250K +30%, linear taper, (CTS series HPE-200) or 182660 Teletype	Chicago Telephone Supply Co.
2	751193		Relay RH-80133-2, coil resistance 200 ohms +10%, 8VDC, max. pull-in 4V, @ 25°C, min. drop-out current 5 ma., contacts - 1A, 1C, Bifurcated, 1/16" palladium, 600VDC breakdown	Potter & Brunfield or (Teletype #181624)
1	751180		Relay RH-80131-2, coil resistance 200 ohms +10%, 8VDC, max. pull-in 4VDC @ 25°C, min. drop-out 2.5 ma., contacts - 1A, Bifurcated, 1/16" palladium, 600VDC breakdown	Potter & Brunfield or (Teletype #181623)
1	243295		Resistor 82-A, 22 ohms, 1/2 watt	Dwg. 207769
1	243418		" " 100 " " " " " " " " " "	" " " "
1	243449		" " 470 " " " " " " " " " "	" " " "
1	243280		" " 560 " " " " " " " " " "	" " " "
2	244186		" " 1.2K " " " " " " " " " "	" " " "
2	244184		" " 1.5K " " " " " " " " " "	" " " "
1	244285		" " 2.2K " " " " " " " " " "	" " " "
2	244222		" " 2.7K " " " " " " " " " "	" " " "
2	244263		" " 3.3K " " " " " " " " " "	" " " "
2	244282		" " 4.7K " " " " " " " " " "	" " " "
1	244483		" " 5.6K " " " " " " " " " "	" " " "
2	244525		" " 6.8K " " " " " " " " " "	" " " "
2	244566		" " 8.2K " " " " " " " " " "	" " " "
1	244608		" " 10K " " " " " " " " " "	" " " "
1	244646		" " 12K " " " " " " " " " "	" " " "
1	244785		" " 15K " " " " " " " " " "	" " " "
1	244747		" " 47K " " " " " " " " " "	" " " "
2	244718		" " 100K " " " " " " " " " "	" " " "
1	244822		" " 220K " " " " " " " " " "	" " " "
3	244439		Resistor 81-A, 22 ohms, 1 watt	Dwg. 207770
1	250167		Resistor 81-A, 100 ohms, 2 watts	" 207771
1	245274		Resistor 81-A, 560 ohms, 1/2 watt	" "
1	251253		Resistor 81-A, 50K, 1/2 watt	" "

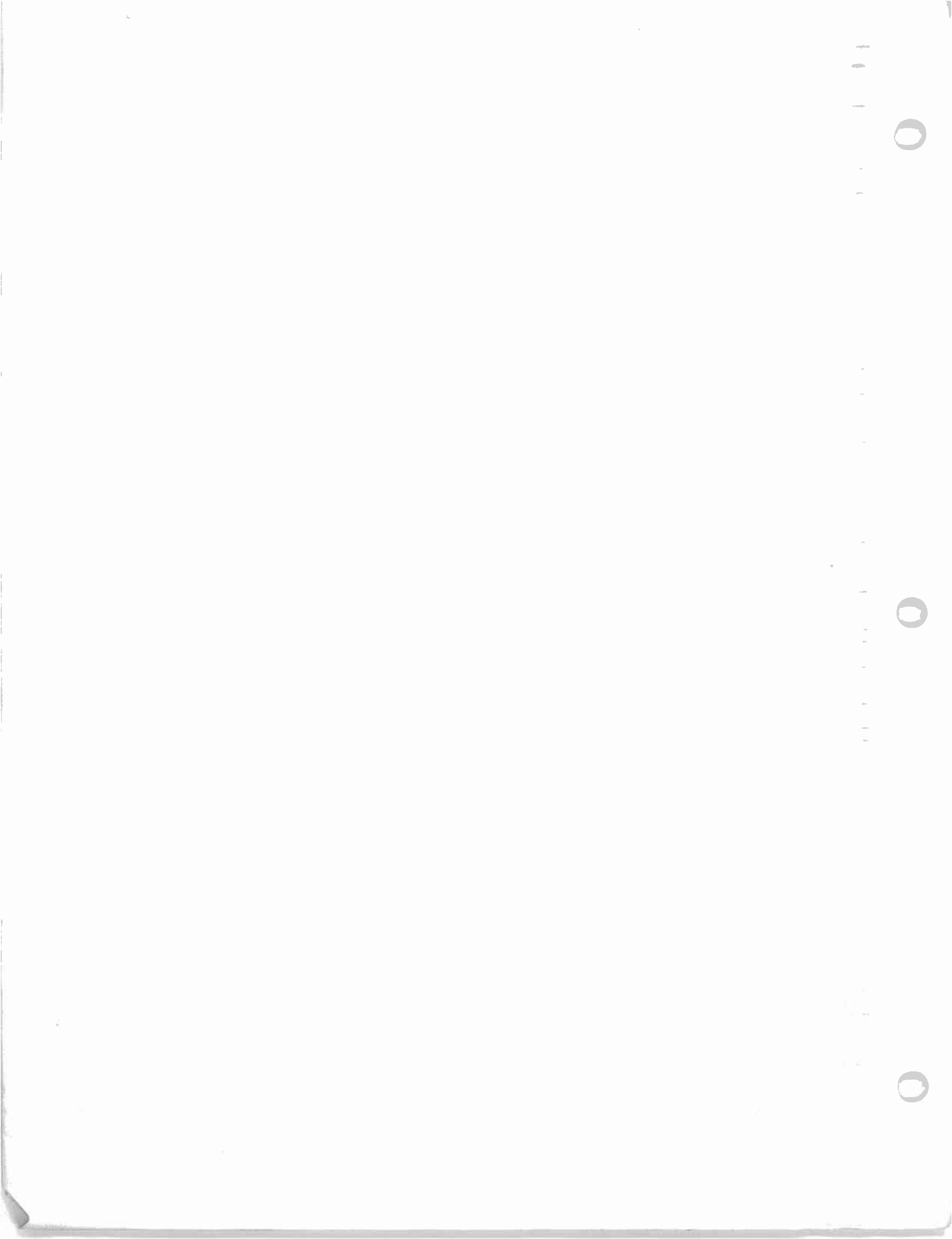
B - 8/22/68  
 Revised, and  
 1.3C retyped, 8/26

WESTERN UNION

DRAWN BY  
 DESIGNED BY  
 CHECKED BY  
 APPROVED BY

TRUCK  
 RYAN  
 C  
 (TITLE OF MATERIAL)  
 BILL OF MATERIAL  
 SHEET OF

A 11





ITEM No	QUAN	TOP No	DESCRIPTION	SPECS OR DWG
		751000	ITEM CARD 11506-A, REMOTE CONTROL UNIT	SPECS. 11505-A
	1	751171	Resistor 742, 270 ohms, 1/2W, 4 watts	Welwyn International Inc.
	10	751206	Terminal 1326T (male)	Molex Products Co.
	10	751222	Terminal 1327T (female)	Molex Products Co.
	1	751500	Transistor 2N1303, Germanium	
	1	751503	Transistor 2N1303	Toxan Instrument
	1	751508	Transistor 2N1571B	O.S., T.I.
	1	751255	Varistor SV1, Silicon or 100-A or 170044	Shour Mfg. Corp. Western Electric Teletype

B - 6/22/62  
Revised and  
PJC retyped. *g*

DRAWN	WESTERN UNION
CHKD	TELEX CONTROL UNIT CARD
DATE	(The STL 11506-A, 11505-A)
BY	BILL OF MATERIAL
NO.	SHEET 2 OF 2
DATE	DATE
A 7/2/62	1962

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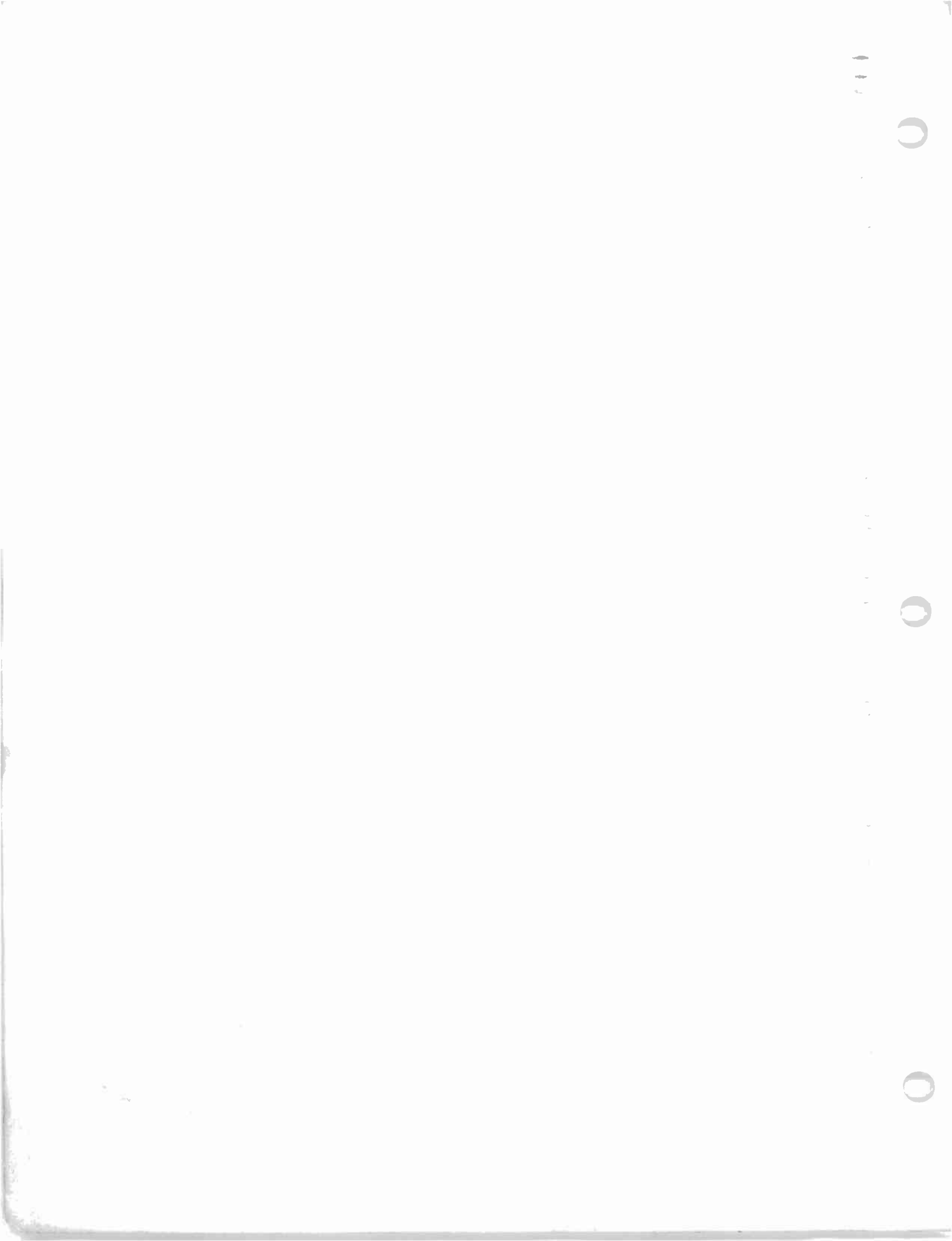
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ITEM No	QUAN REQD	I.D.P No	DESCRIPTION	SPECS OR DWG
		717002	ITEM UNIT 11272-A, REMOTE CONTROL	SPECS. 14107-A
	1	751005	Block 4522, Fuse, 1-Pole	Ingram Mfg.
	1	750980	Buzzer MD, 115VAC	Lano Electric Co.
51	1	751351	Capacitor 109126 - 182501, 1500 mfd., 20VDCW	Dwg. 109126
12	1	751077	Connector Edge, Type 440110-1	Amp, Inc.
11, 12, 23	1	751078	Connector 12612, 6-point (Electrical)	Molex Products Co.
11, 12, 16	1	751065	Connector 12928, 9-point (Electrical)	Molex Products Co.
11, 12, 16	1	751024	Connector 1360H, 12-Point (Electrical)	Molex Products Co.
	1	751112	182500, D.C. Dial	Teletype
11	1	603469	Fuse 8296-A, 3/8 amp	Dwg. 234685
11, 13	2	751107	Fuse 8296-A, 2.5 amp.	"
	1	751297	181644, Key and Cable Assembly	Teletype
	1*	751123	Lamp 51-A, 10V, 40 ma. or 10C	Western Electric General Electric
11	1	751172	Relay 4480219-2, coil resistance 445 ohms +10%, 18VDC, maximum pull-in voltage, 0.5V @ 25°C, contacts - 1X, 3/16" silver cad. oxide	Potter & Brunsfield (or Teletype 4181672)
	1	751115	5E15 7190675, Lamp Assembly	Western Electric
	13		Terminal 42202-3LP, AMP LEAF	Amp, Inc.
	6		Terminal 42717-3LP, AMP LEAF (used on Edge Connector terminal points 8, 2, 11 and 12)	Amp, Inc.
28		751154	Terminal 13812, Pin (female)	Molex Products Co.
28		750264	Terminal 1380T, Pin (male)	Molex Products Co.
12	1	435357	151411, Block Terminal	Teletype
11	1	751250	Transformer 11496	Specs. 14090
12	1	751339	Transformer 11495	Specs. 14097
	1	751000	Card, 11506-A, Remote Control Unit	Specs. 14105-A
	1	752006	Card, 11507-A, Selector Magnet Driver	Specs. 14106-A
	1	753483	Resistor, 2-K-0-D-35 Adjustable, 35-ohm, 25W, +5%, or: 2DA, or 182517	Ohmite Mfg. Co. INC Teletype
			*A 4th lamp (spare) is to be provided in the assembly.	
			**These items are included in Key and Cable Assembly 181644	

B - 11/27/62 Revised and for relay and. <i>ejf</i>		DRAWN M.F.		WESTERN UNION	
		DESIGN F.X.		TRUNK SWITCHING SYSTEMS REMOTE CONTROL UNIT 11272-A	
		SPECING		BILL OF MATERIAL SHEET 1 OF 1	
APPD.	DATE	DRAWING NUMBER			
A	7/30/62	195617	-2-		



QUAN REQD	LOP No	ITEM	DESCRIPTION	SPECS OR DWG
		252006	ITEM CARD 11507-A, Selector Magnet Driver	SPECS. 14106-A
ITEM No			DESCRIPTION	SPECS OR DWG
	1	751010	Capacitor TAN, 100 mfd., 10VDC, ±20% (TAN-107501010) or 1500 (1500-1075001010)	Mallory & Co., Inc. Sprague Elec. Co.
	1	751081	Capacitor NLI, 10 mfd., -10%, ±50% (alone tolerance) 35V, aluminum computer quality electrolytic	Cornell-Dubilier
	1	751068	Diode 1N7197, Silicon	HCA or app. equiv.
	1	751057	Diode 1N7192, Silicon	"
	1	751000	Diode 1N750A, Zener, +5%	T.I., Motorola, INC., & Gen Dev Corp.
	1	244616	Resistor 82-A, 100 ohms, +5%, 1/2 watt	Dwg. 209769
	1	244601	" " 150 " " " " " " " " " " " "	"
	1	244774	" " 220 " " " " " " " " " " " "	"
	1	244203	" " 1K " " " " " " " " " " " "	"
	1	244145	" " 1.2K " " " " " " " " " " " "	"
	1	244556	" " 8.2K " " " " " " " " " " " "	"
	1	710116	Pad, #8005, Transistor	U.S. Dielectric Prod. Inc.
	1	249254	Resistor, 81-A, 91 ohms, +5%, 1 watt	" 209770
	1	246751	" " 1K " " " " " " " " " " " "	"
	1	252627	Resistor, 85-A, 0.47 ohms, +5%, 1/2 watt	" 211306
	1	751149	Resistor F32, 330 ohms, +5%, 4 watts or 181669	Welwyn International Inc. Teletype
	1	751156	Resistor F32, 300 ohms, +5%, 4 watts or 182627	Welwyn International Inc. Teletype
	1	751164	Resistor F32, 680 ohms, +5%, 4 watts or 181666	Welwyn International Inc. Teletype
	1	751230	Transistor 2N1309	Texas Inst., GE, Gen. Inst. Industro
	1	752222	Transistor 2N1184	HCA
	2	696989	Transistor 2N1303	Texas Inst. or equiv.
	1	601500	Transistor 2N1302	" " " " " "
	1	752255	Varistor 3V1, Silicon or 100-A or 176804	Shauer Mfg. Corp. Western Electric Teletype

D - 1/22/64  
 Revised and  
 POC rechecked. E.P.P.

**WESTERN UNION**  
 SELECTOR MAGNET DRIVER  
 CARD 11507-A  
 (FOR THE COMPANY FILE)  
**BILL OF MATERIAL**  
 SHEET 1 OF 1

DRAWN BY  
 DESIGNED BY  
 CHECKED BY  
 APPROVED BY  
 DATE  
 DRAWING NUMBER

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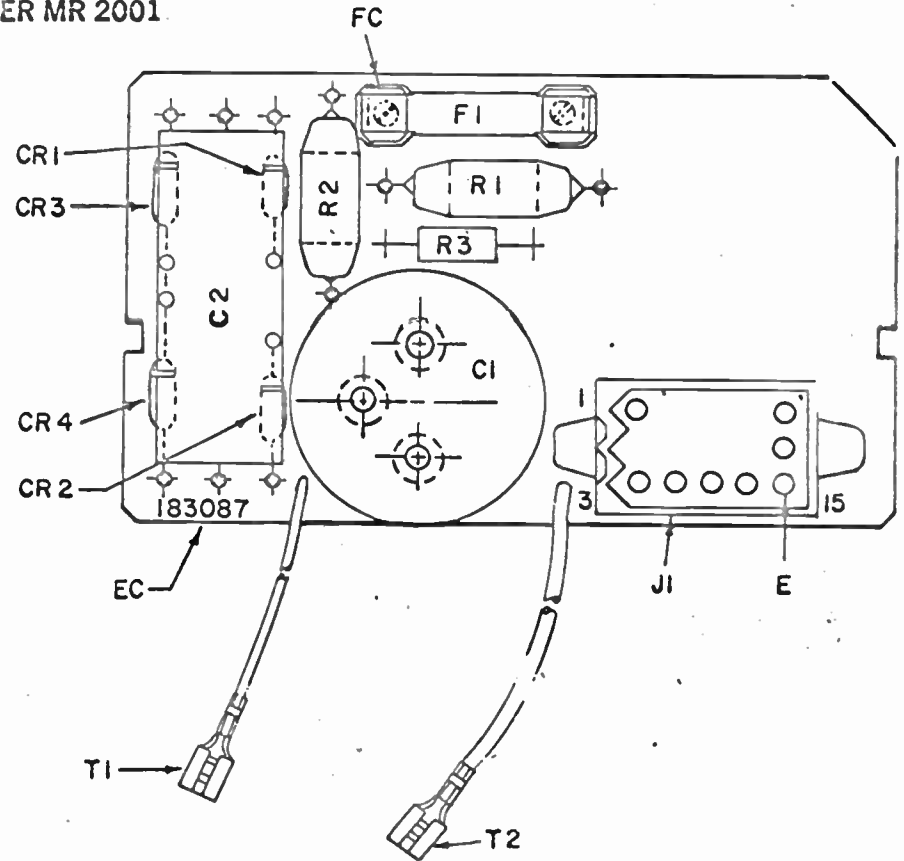


UNLESS SPECIFIED

UL RECOGNITION SYMBOL  
REQUIRED PER MR 2001

NO.	NOTE
1	MASTER ARTWORK 183087 AW FOR PRINTED SCREENING AVAILABLE IN R&D OFFICE SERVICE SECTION.
2	SOME PREVIOUS CIRCUIT CARD ASSEMBLY USED 1/2 AFB. 3/4 AFB IS PREFERABLE.
3	ON ISSUE 10, BOARD NUMBER WAS 183080.

182134  
READER  
POWER PACK



DESIGNATION	TELETYPE PART NO.	TOTAL QTY.	DESCRIPTION	FUNCTION
R1	183083	1	RESISTOR, 22 OHM	SURGE LIMITER
R2	183082	1	RESISTOR, 12,000 OHM	ARC SUPPRESSOR
C1	183078	1	CAPACITOR, DUAL SELECTION A - 200 M.F.D. 200 V.D.C. B - 9 M.F.D. 200 V.D.C.	POWER SUPPLY FILTER SURGE SOURCE
C2	183084	1	CAPACITOR, .22 M.F.D.	ARC SUPPRESSOR
CR1	181654	4	DIODE, 400 V. <i>B. 79 Drawer 3</i>	POWER SUPPLY RECTIFIER
CR2			" " <i>.31 each</i>	" " "
CR3			" " <i>1N647 Substitution</i>	" " "
CR4			" " "	" " "
F1	143630	1	FUSE, 3/4 A. F.B.	POWER SUPPLY PROTECTION SEE NOTE 3.
FC	171595	2	FUSE CLIP	
T1	183085	2	TERMINAL WITH WIRE LEAD	
T2			" " " "	
JI	182540	1	CONTACT BLOCK, 15 POINT	
E	182641	8	TERMINALS MALE P.C.	
EC	188137	1	ETCHED CIRCUIT BOARD	NOTE 3
	151637	2	SCREW 4-40 FIL HEAD	
	110743	2	LOCK WASHER # 4	
	151860	2	NUT	
R3	118198	1	RESISTOR, 56,000 OHM	BLEEDER

SCALE:	
DRAWN T.R.	P.D. FILE NO. 1-47,60A7
DESIGNED J.A.J.	CHECKED A.A.

