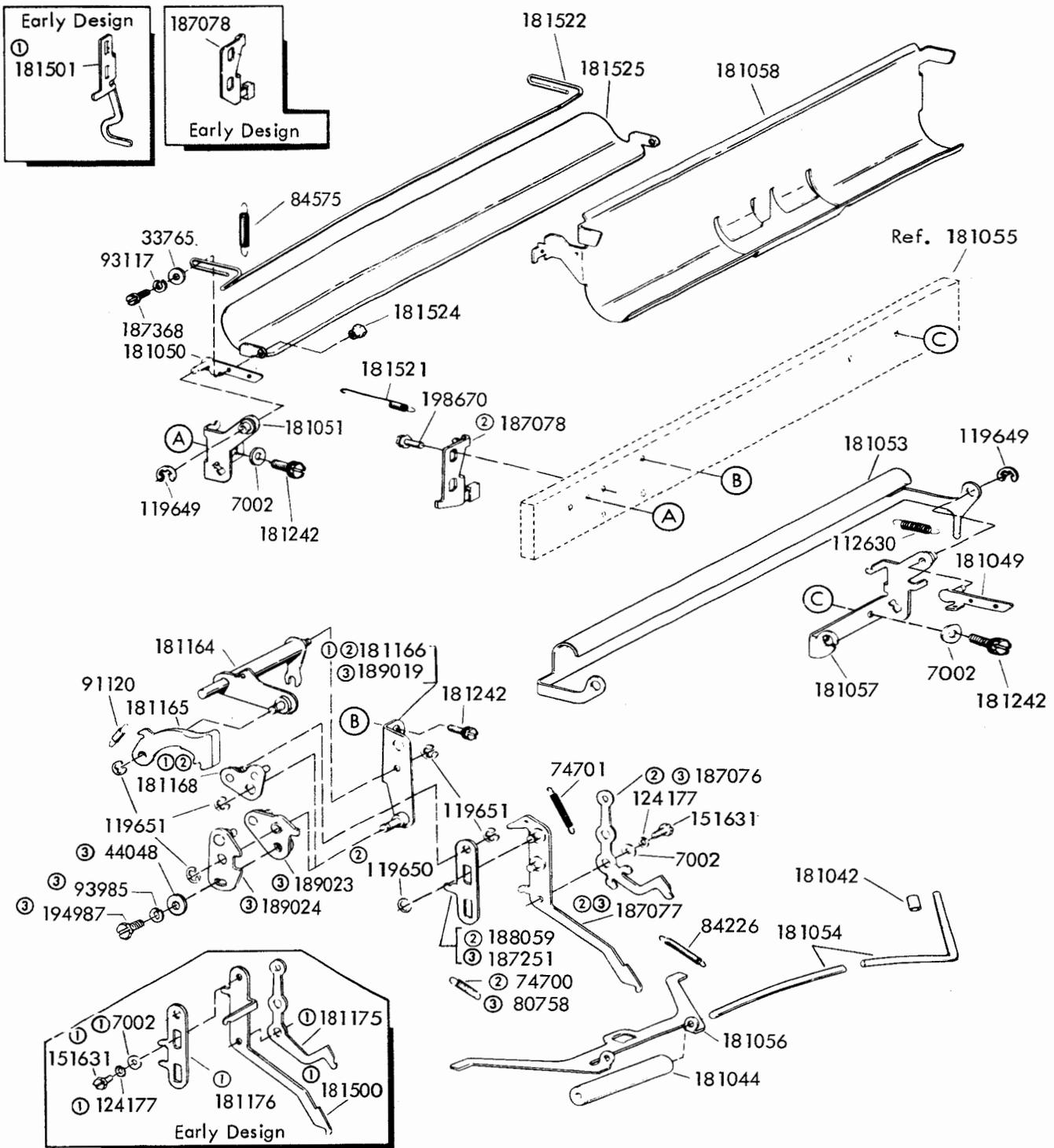


33 TYPING UNIT (UP)

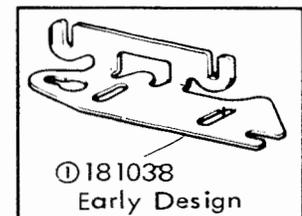
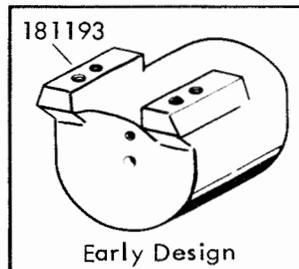
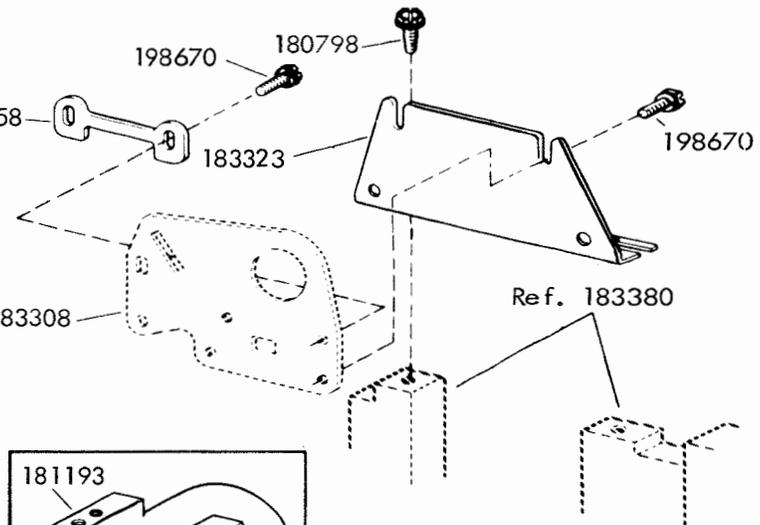
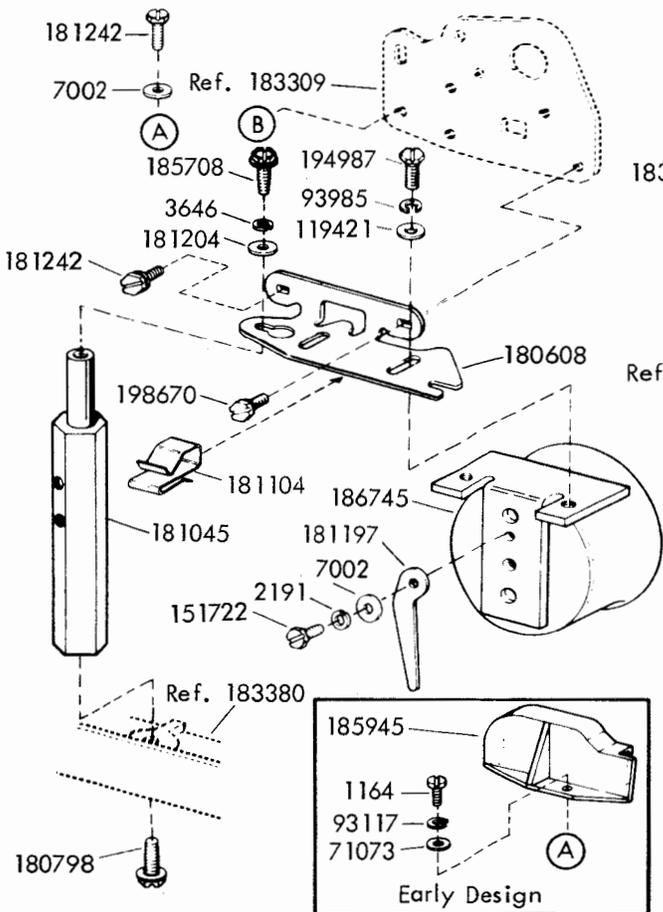
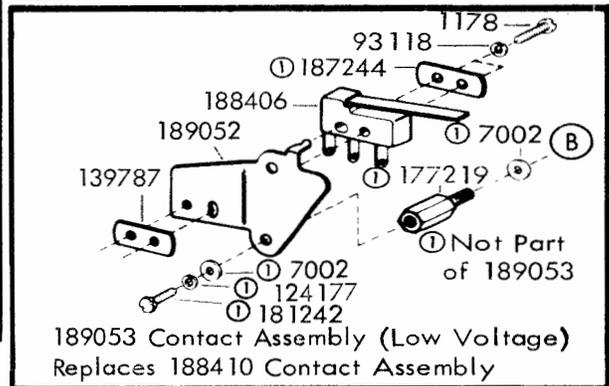
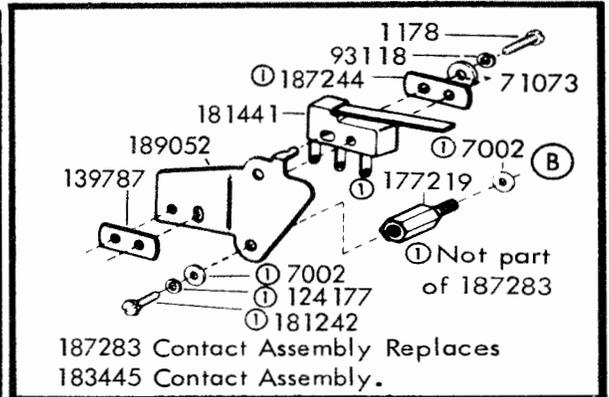
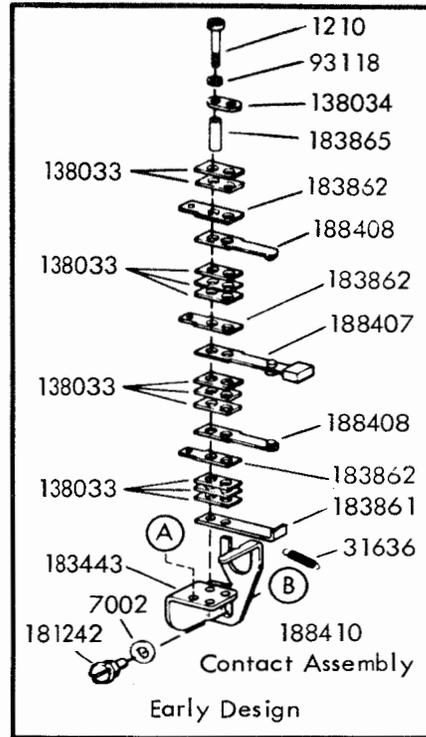
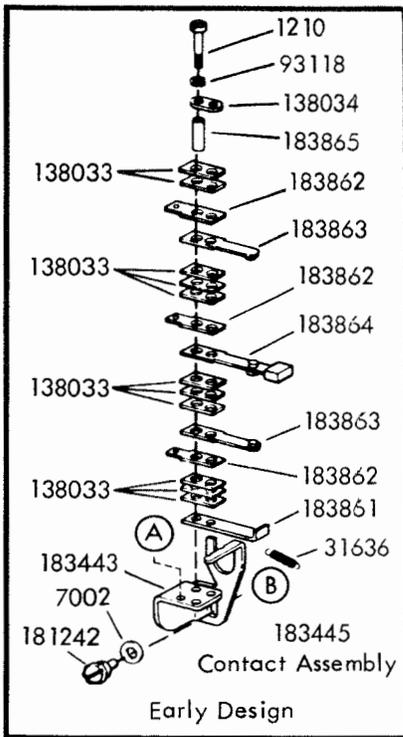
PARTS

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2	Paper Handling Mechanism – Friction Feed	3	24	Function Levers	24,25
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4	Ribbon Feed Mechanism	6	26	185791 Modification Kit to Provide Controlled Single or Double Line Feed Feature on Friction Feed Printer	26
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8	Carriage Drive Bail Mechanism	10	29	Later Design Formout Mechanism – Sprocket Feed	35
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10	Main Shaft Mechanism – Sprocket Feed	12	31	Solenoid Print-Nonprint Reset Mechanism	36
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19	182964 Drive Arm Assembly	21			
20	Clutch Trip Mechanism	21			
21	Answer-Back Drum Mechanism	22			
22	Answer-Back Trip Magnet Mechanism	22			



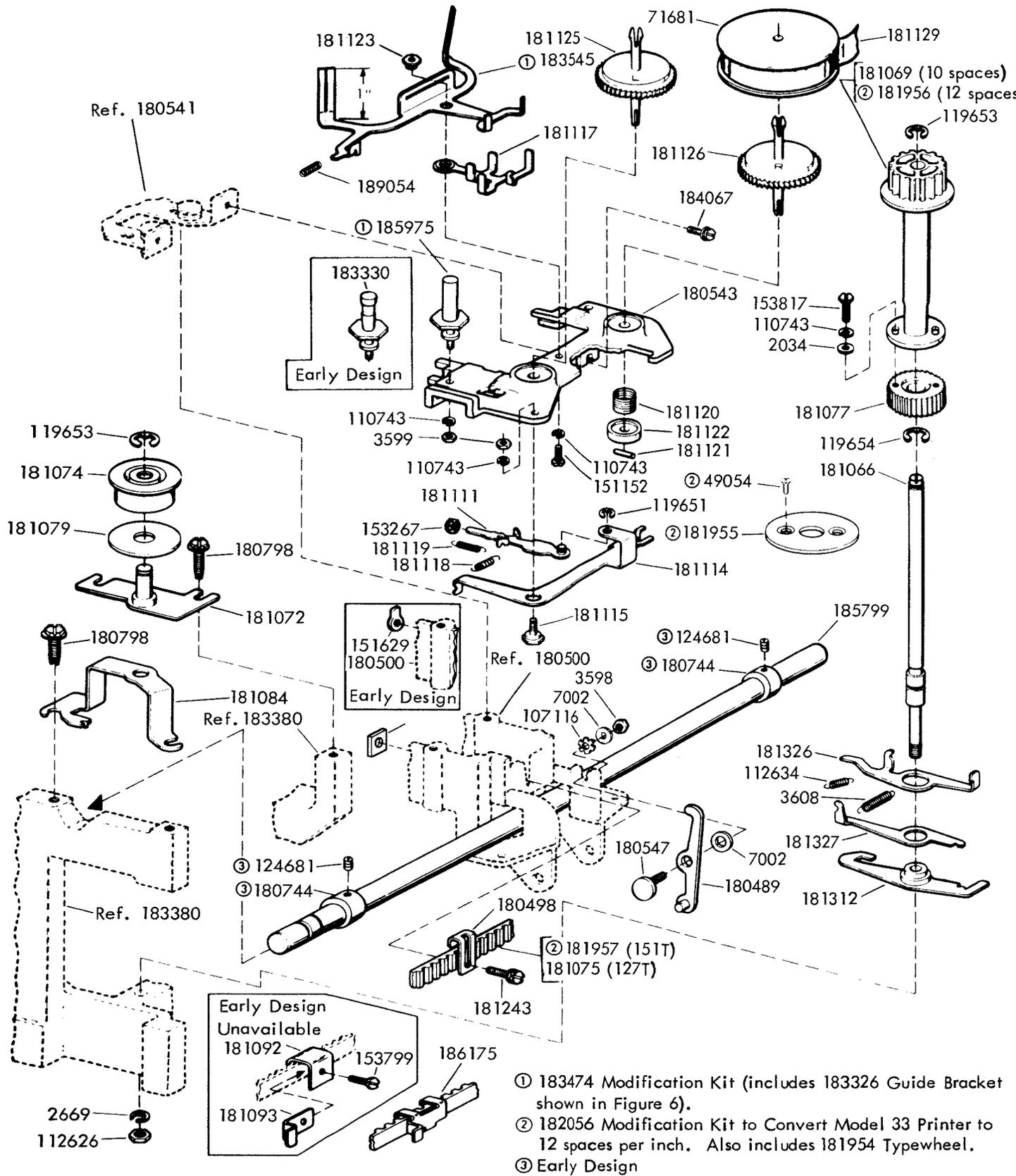
- ① Early Design, Pry Adjustment
- ② Intermediate Design, Yield Adjustment
- ③ Late Design, Yield with Pry

Fig. 2 - Paper Handling Mechanism-Friction Feed



① Use with 180526 Bail.

Fig. 3 - Platen Mechanism-Sprocket Feed (Cont)



- ① 183474 Modification Kit (includes 183326 Guide Bracket shown in Figure 6).
- ② 182056 Modification Kit to Convert Model 33 Printer to 12 spaces per inch. Also includes 181954 Typewheel.
- ③ Early Design

Fig. 4 - Ribbon Feed Mechanism

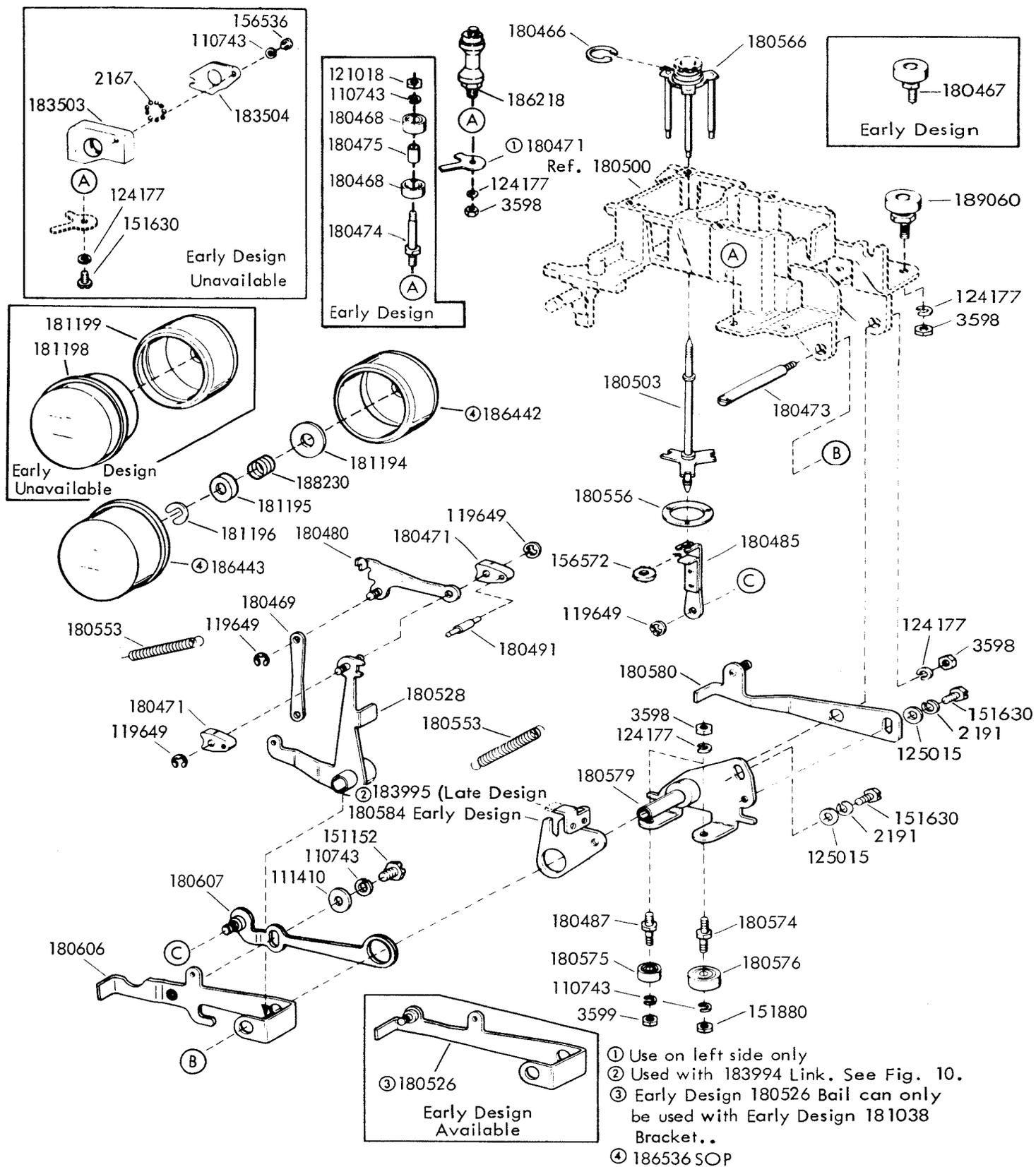


Fig. 7 - Carriage Power Bail Mechanism

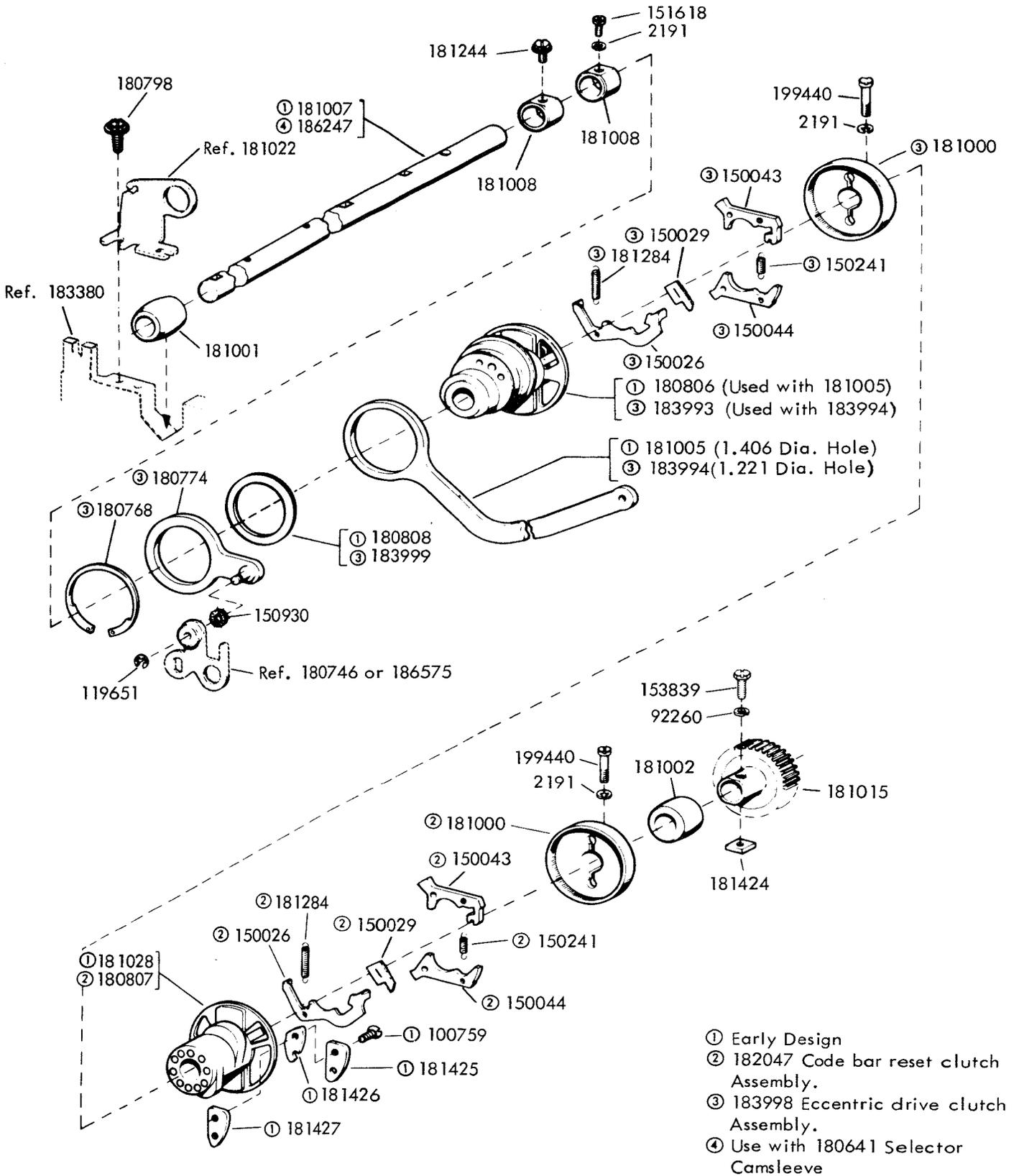


Fig. 9 - Main Shaft Mechanism-Friction Feed

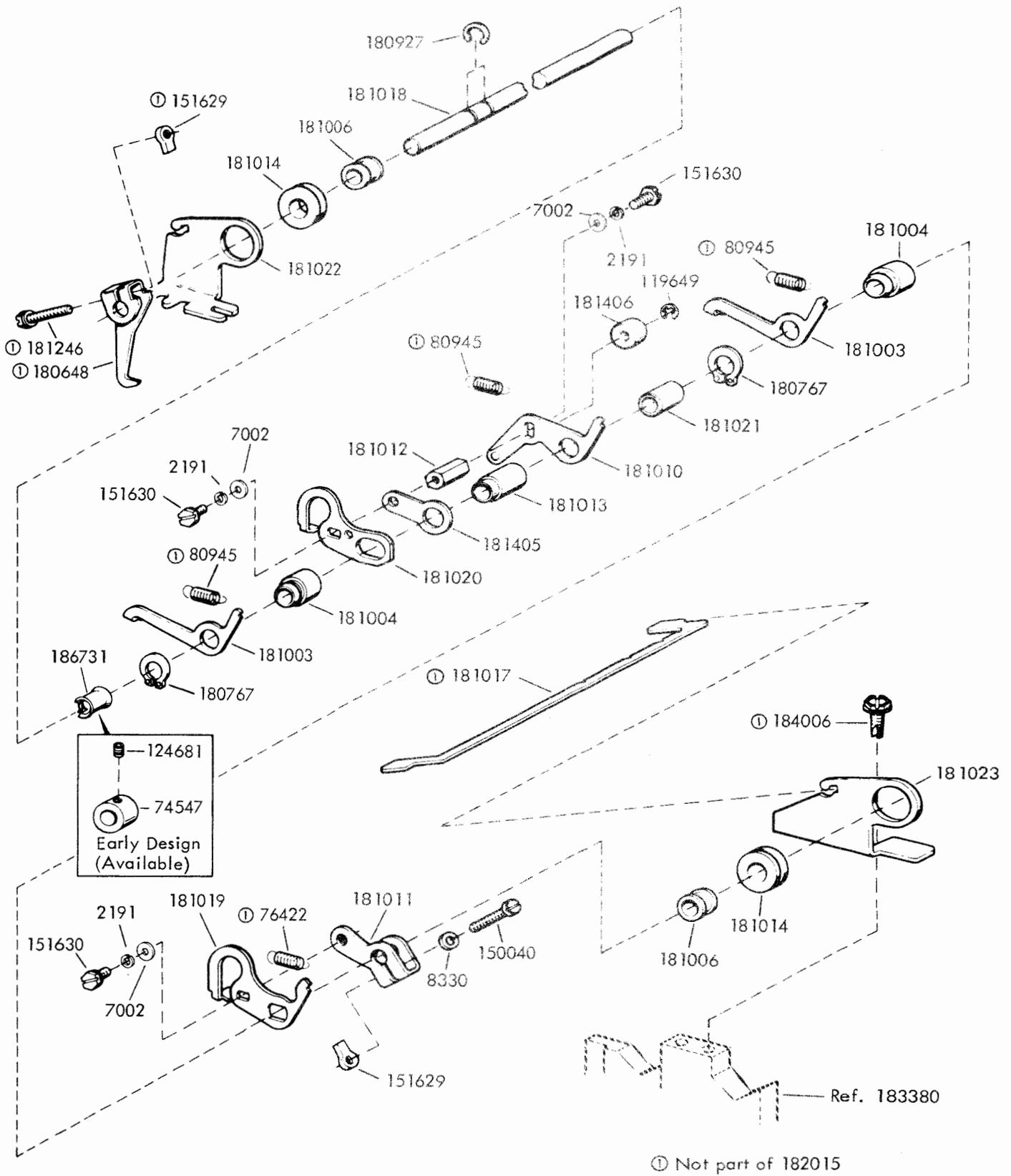
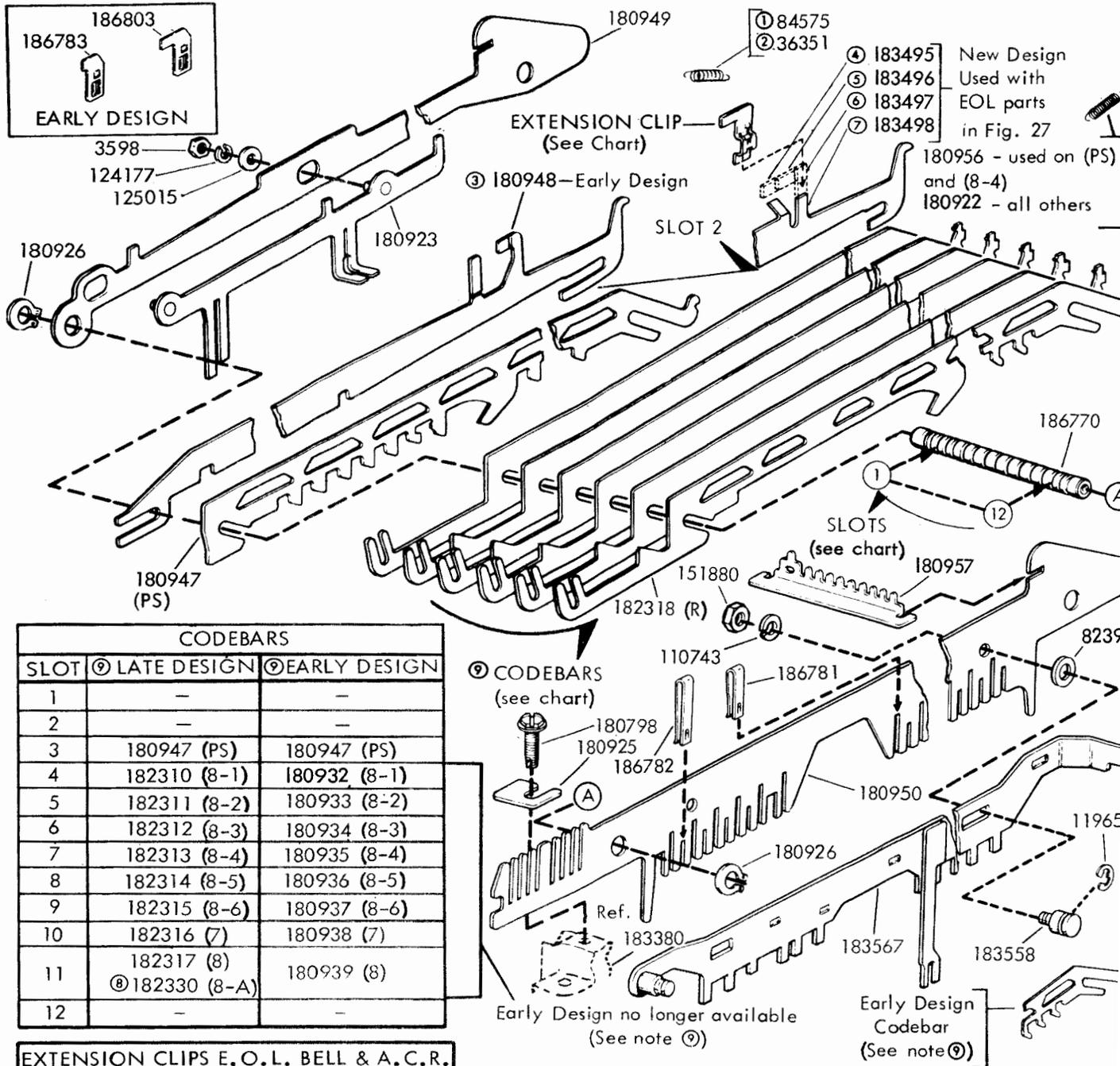


Fig. 11 - 182015 Clutch Trip Lever Assembly

SECTION 574-122-800TC



CODEBARS		
SLOT	Ⓞ LATE DESIGN	Ⓞ EARLY DESIGN
1	-	-
2	-	-
3	180947 (PS)	180947 (PS)
4	182310 (8-1)	180932 (8-1)
5	182311 (8-2)	180933 (8-2)
6	182312 (8-3)	180934 (8-3)
7	182313 (8-4)	180935 (8-4)
8	182314 (8-5)	180936 (8-5)
9	182315 (8-6)	180937 (8-6)
10	182316 (7)	180938 (7)
11	182317 (8) Ⓞ 182330 (8-A)	180939 (8)
12	-	-

EXTENSION CLIPS E.O.L. BELL & A.C.R.		
PART NUMBER	I.D. STAMP	USAGE
186783	F-72	FRICITION 10"
186803	S-72	SPROCKET 10"
187196	F-69	FRICITION 10"
187197	F-74	FRICITION 10"
187198	S-69	SPROCKET 10"
187199	F-83	FRICITION 12"
187200	F-86	FRICITION 12"
187201	-	FRICITION 12"
187202	S-83	SPROCKET 12"
187203	S-86	SPROCKET 12"

- ① Used with 180948
- ② All others
- ③ Auto CR and EOL bell. By removing tines bar can be coded for a 69, 72 or 74 character line
- ④ Auto CR and EOL bell on a 69 character line
- ⑤ Auto CR and EOL bell on a 72 character line
- ⑥ Auto CR and EOL bell on a 74 character line
- ⑦ EOL bell only.
- ⑧ Sets equipped with even parity keyboard
- Ⓞ Early Design (Black Oxide) and Late Design (Nickel) Codebars are interchangeable in sets only. (Numbers in parenthesis indicate stamping on bar) See notes ④ and ⑤ in Figure 16

Fig. 12 - Codebar Basket Mechanism

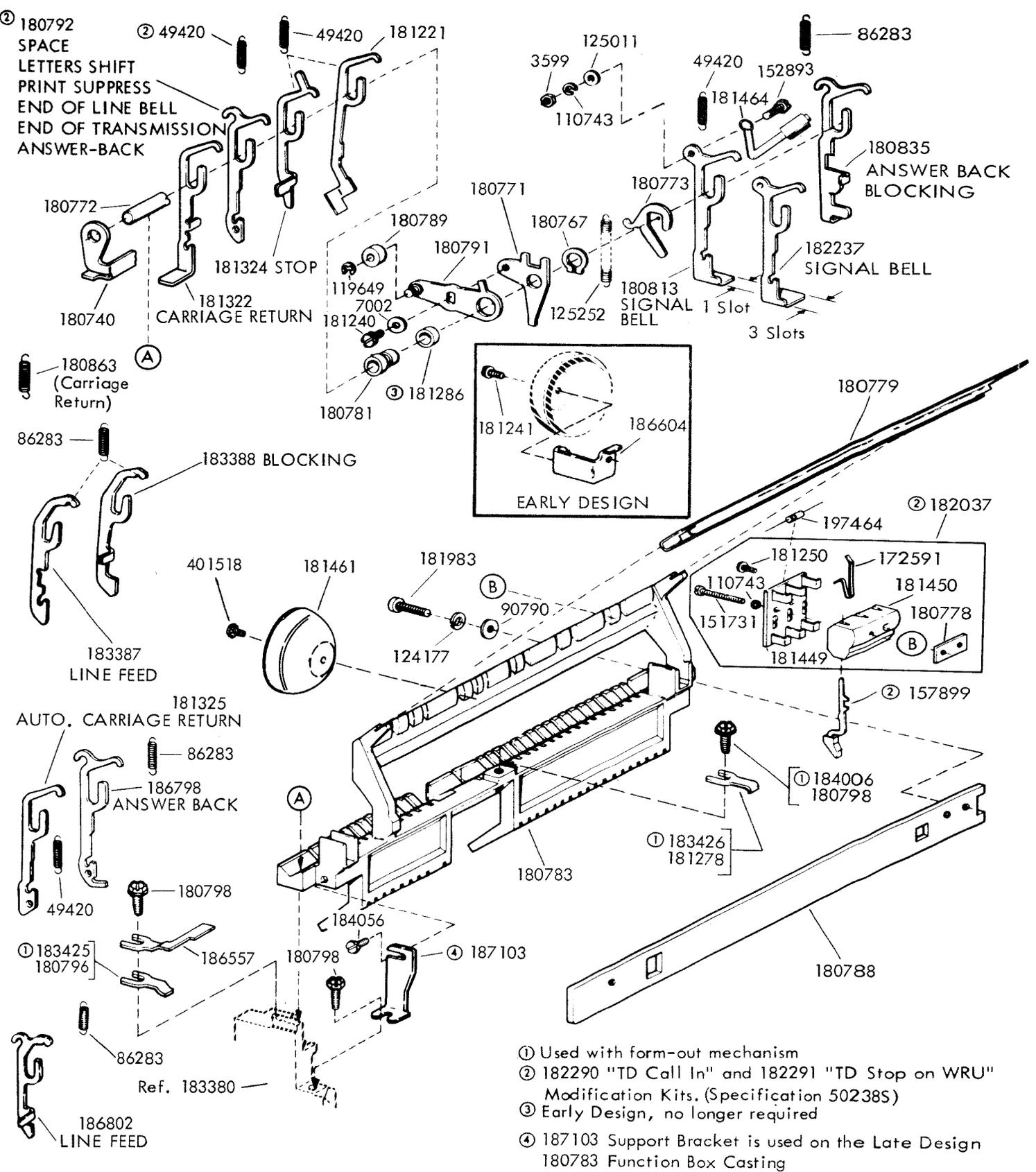
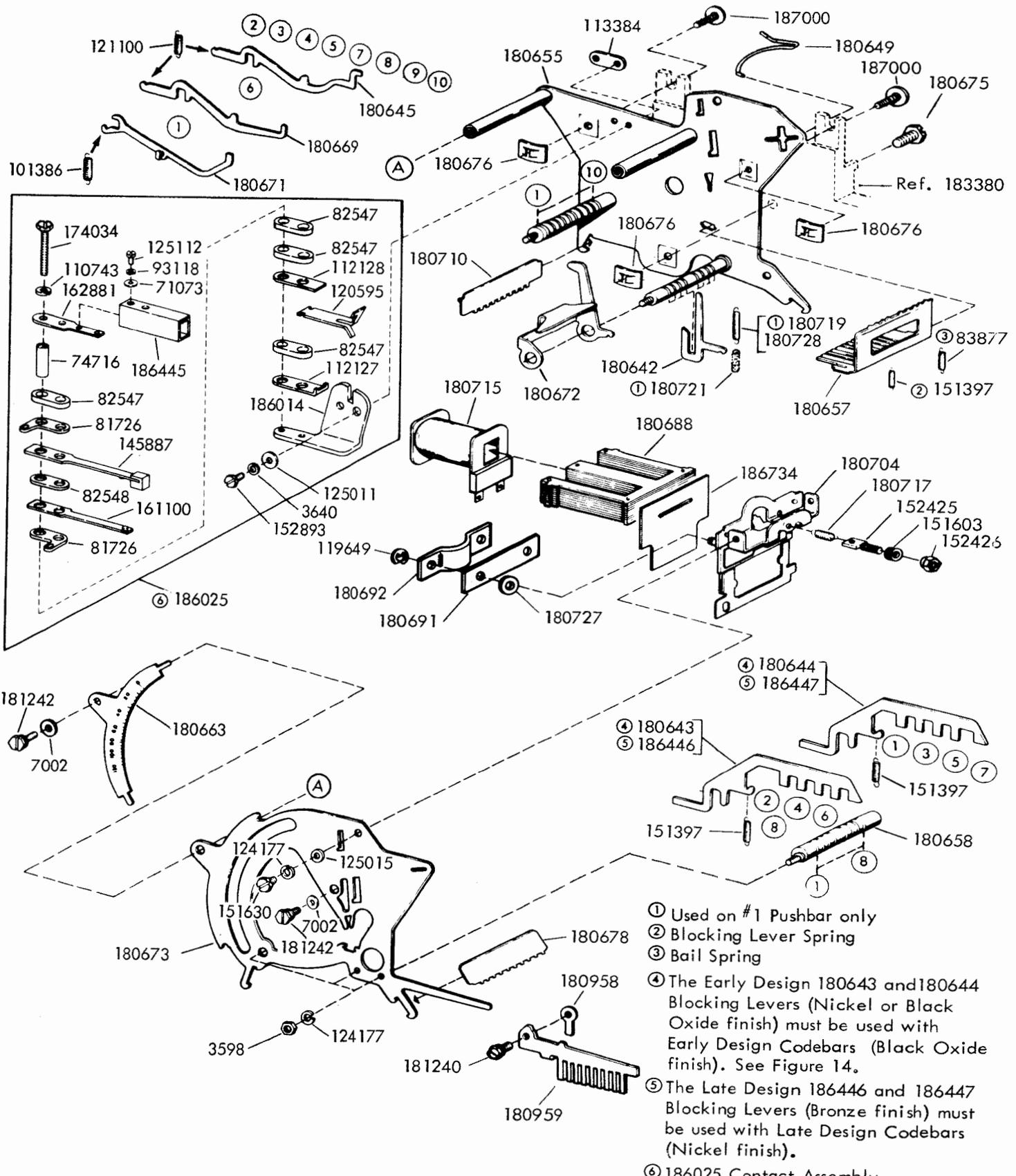


Fig. 13 - Function Box Mechanism



- ① Used on #1 Pushbar only
- ② Blocking Lever Spring
- ③ Bail Spring
- ④ The Early Design 180643 and 180644 Blocking Levers (Nickel or Black Oxide finish) must be used with Early Design Codebars (Black Oxide finish). See Figure 14.
- ⑤ The Late Design 186446 and 186447 Blocking Levers (Bronze finish) must be used with Late Design Codebars (Nickel finish).
- ⑥ 186025 Contact Assembly

Fig. 15 - Selector Frame Mechanism

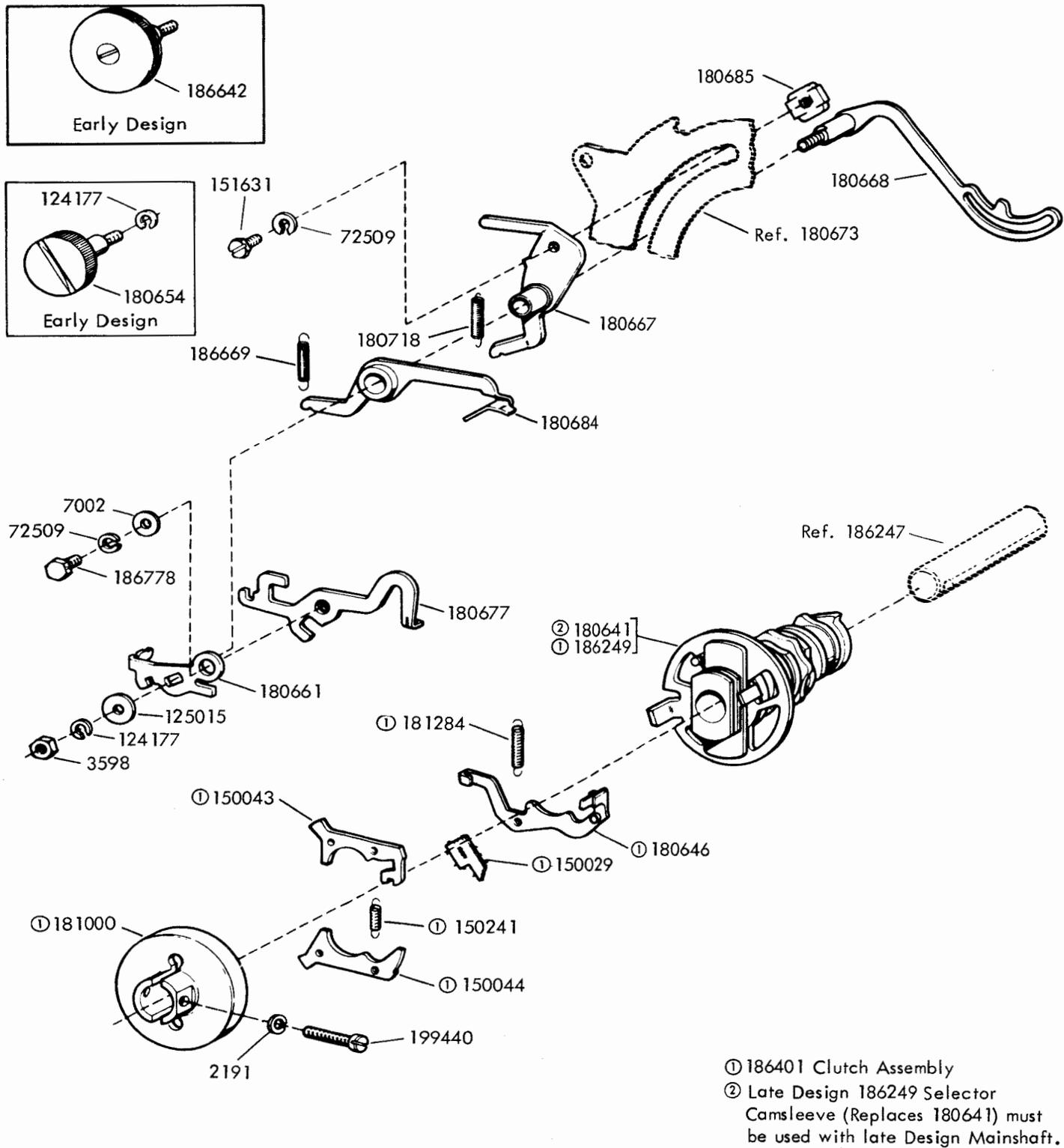


Fig. 16 - Clutch and Camsleeve Mechanism

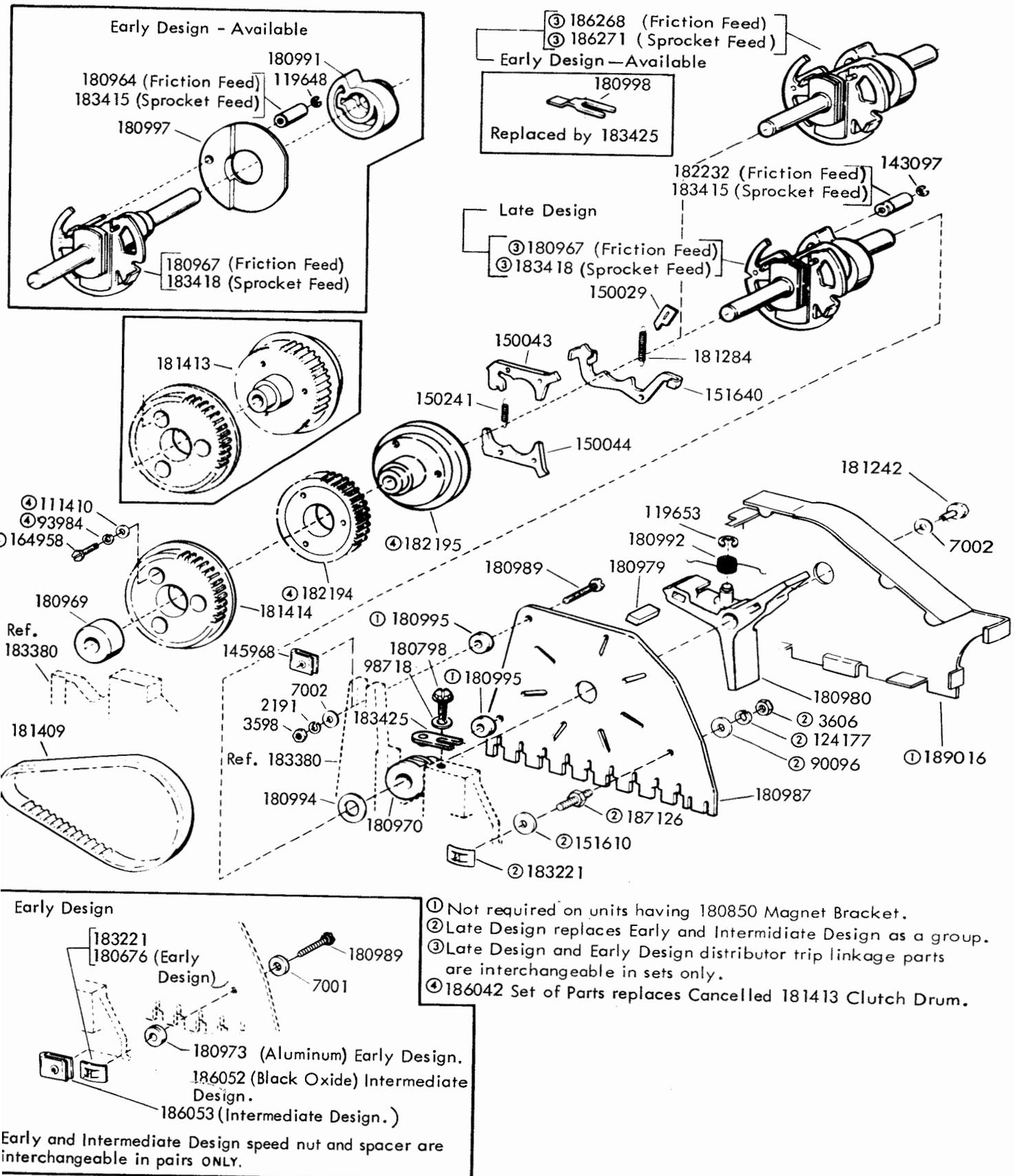
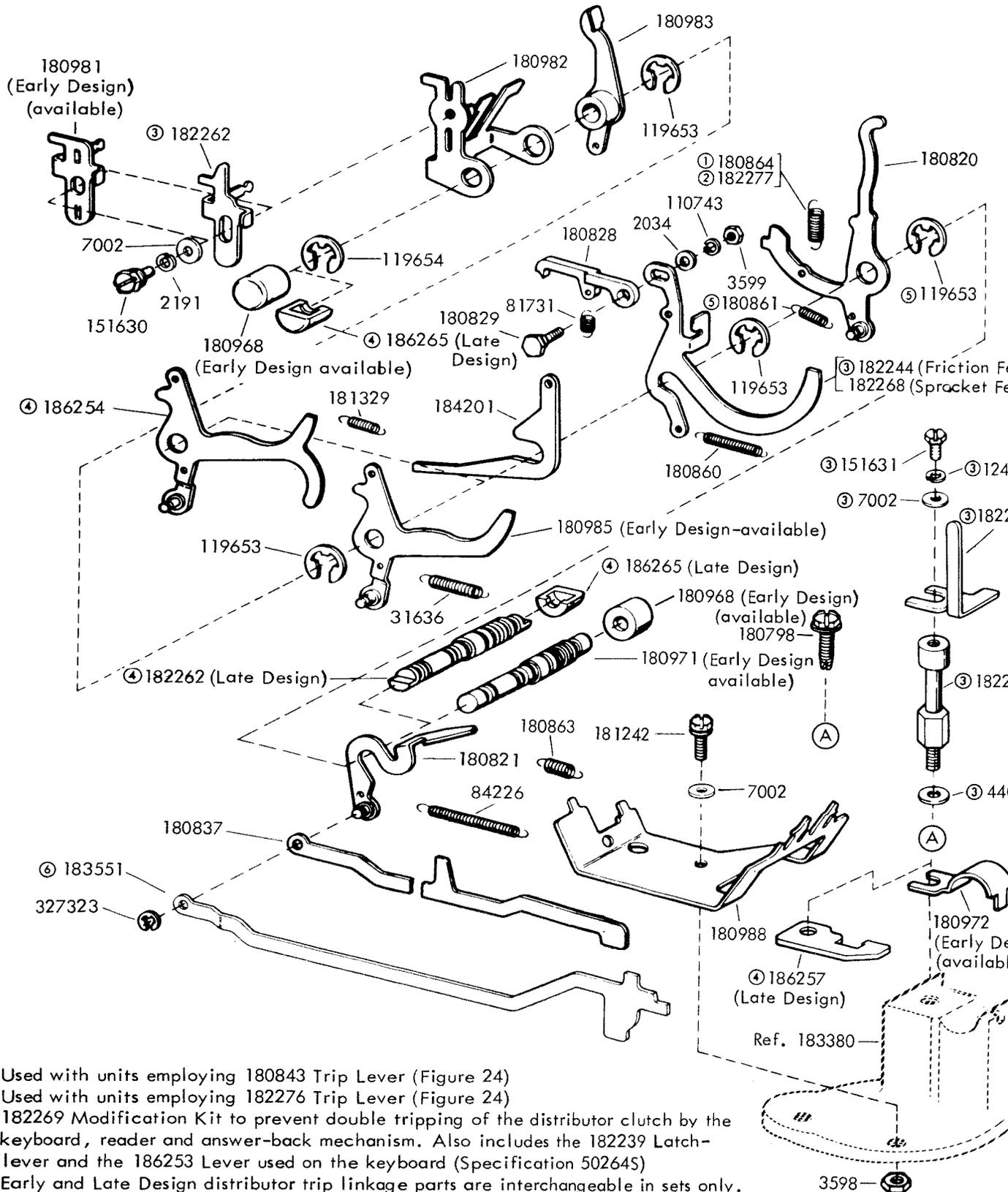


Fig. 17 - Distributor Clutch Mechanism



- ① Used with units employing 180843 Trip Lever (Figure 24)
- ② Used with units employing 182276 Trip Lever (Figure 24)
- ③ 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 502645)
- ④ Early and Late Design distributor trip linkage parts are interchangeable in sets only.
- ⑤ Omitted on units employing 182276 Answer Back Trip Lever. (Figure 24)
- ⑥ Peculiar to units having "new line" feature

Fig. 18 - Trip Shaft Mechanism

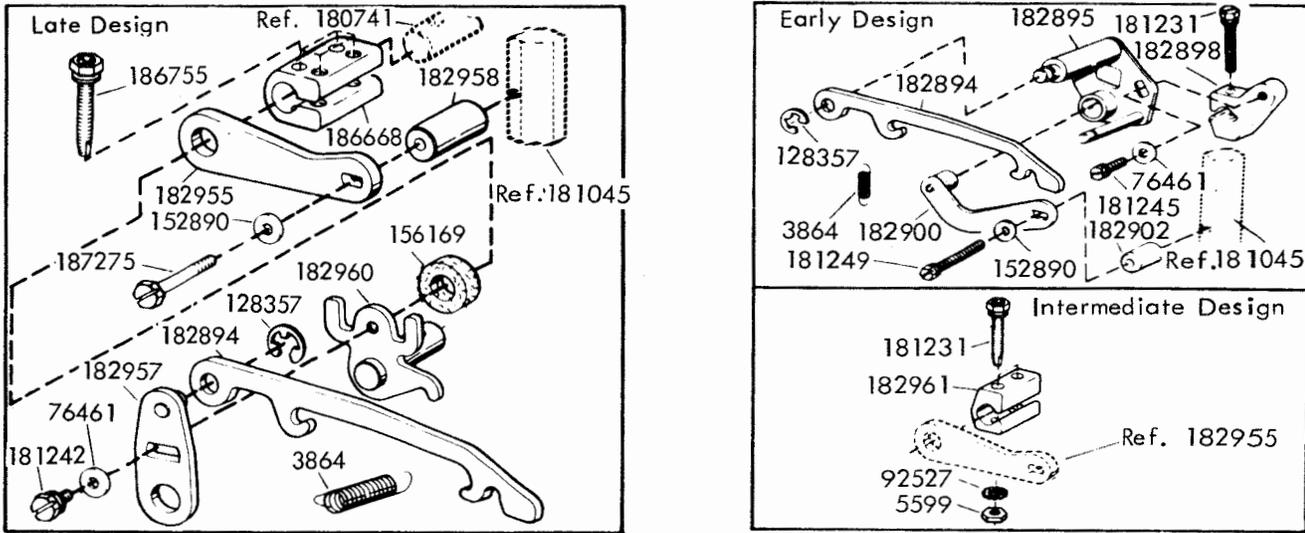
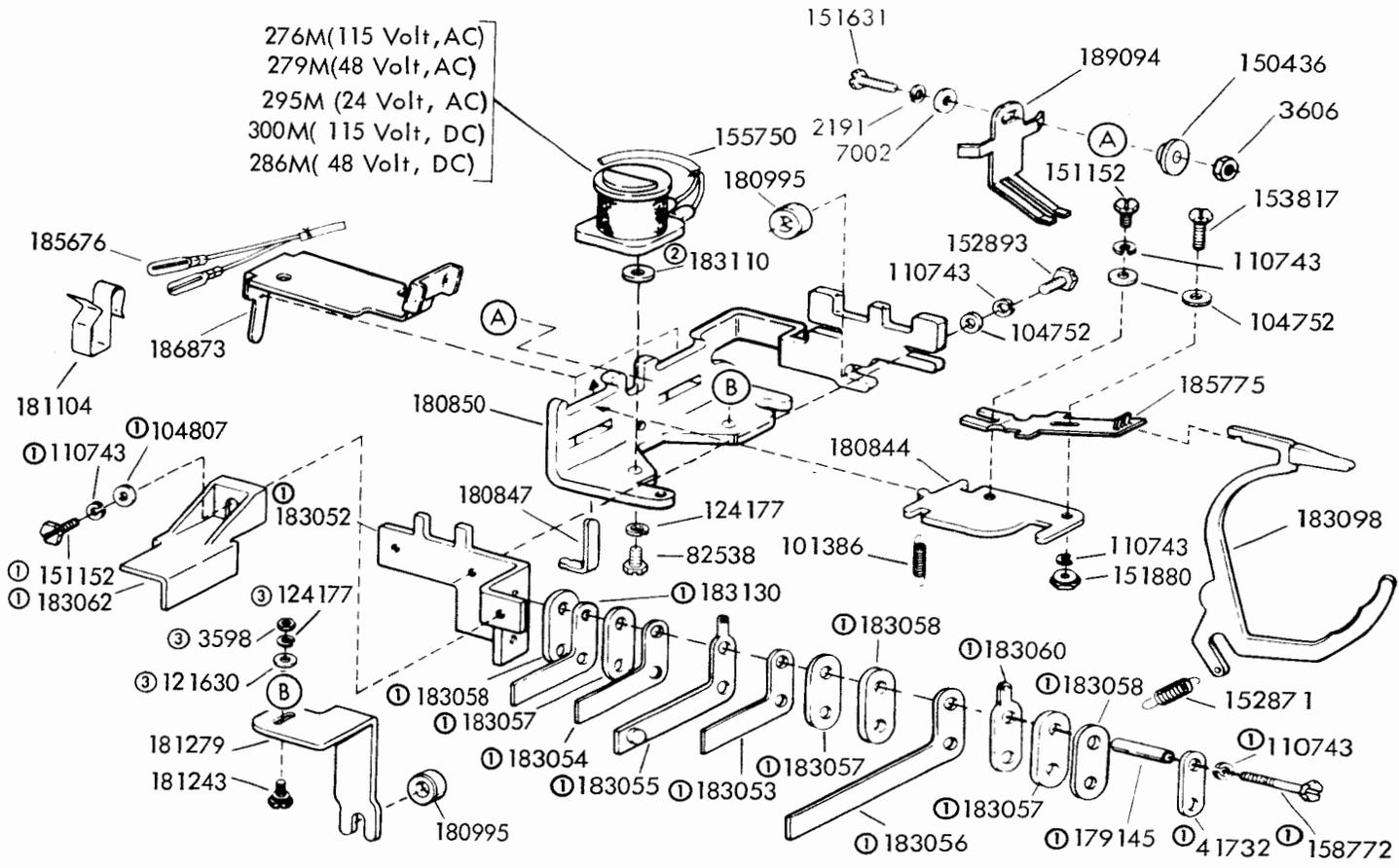


Fig. 19 - 182964 Drive Arm Assembly



- ① 182137 Contact Assembly
- ② Used with 279M and 300M only
- ③ Not used when Answer-Back Trip Magnet is used.
- ④ No Longer available, use 300M.

Fig. 20 - Clutch Trip Mechanism

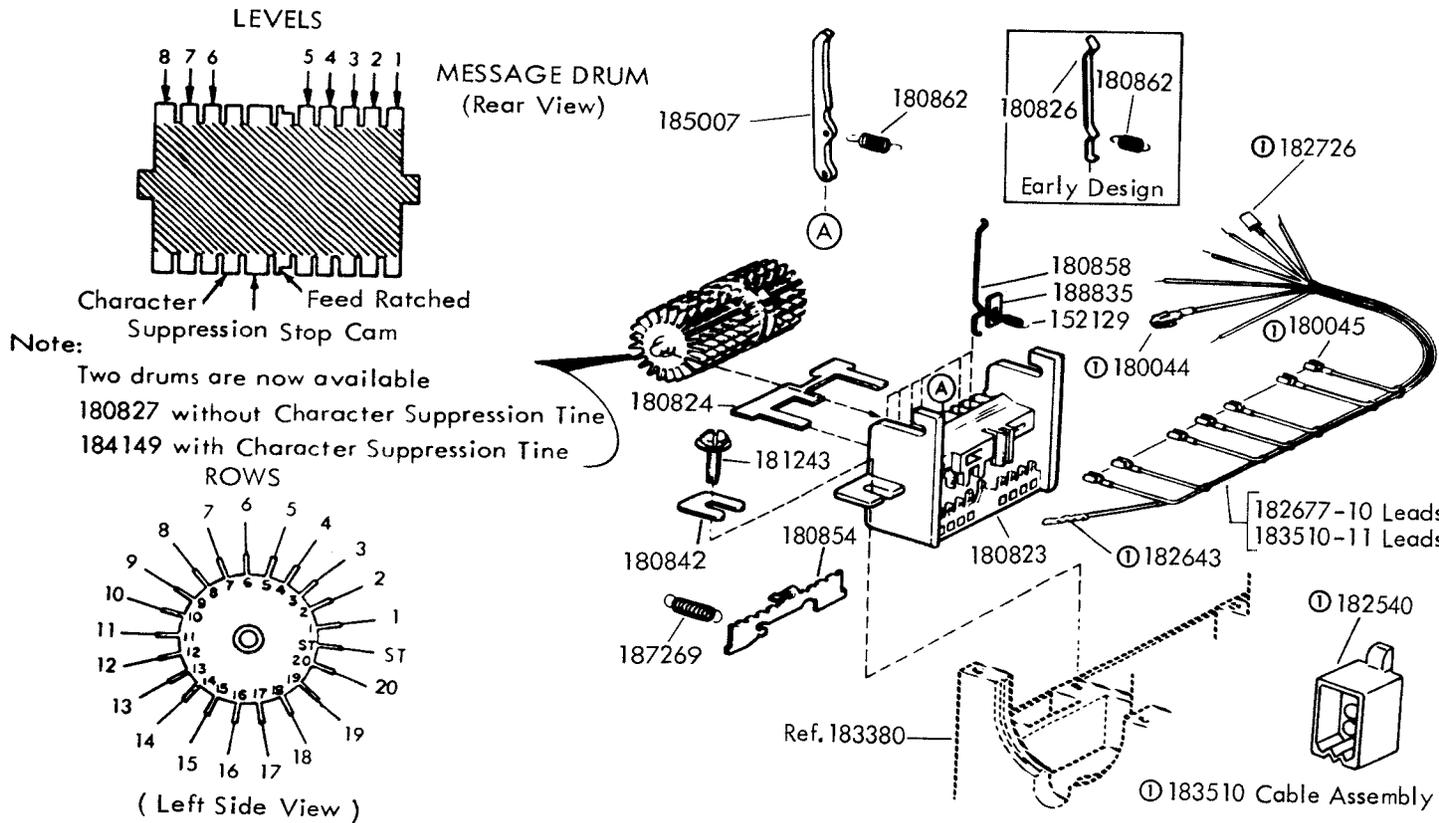


Fig. 21 - Answer-Back Drum Mechanism

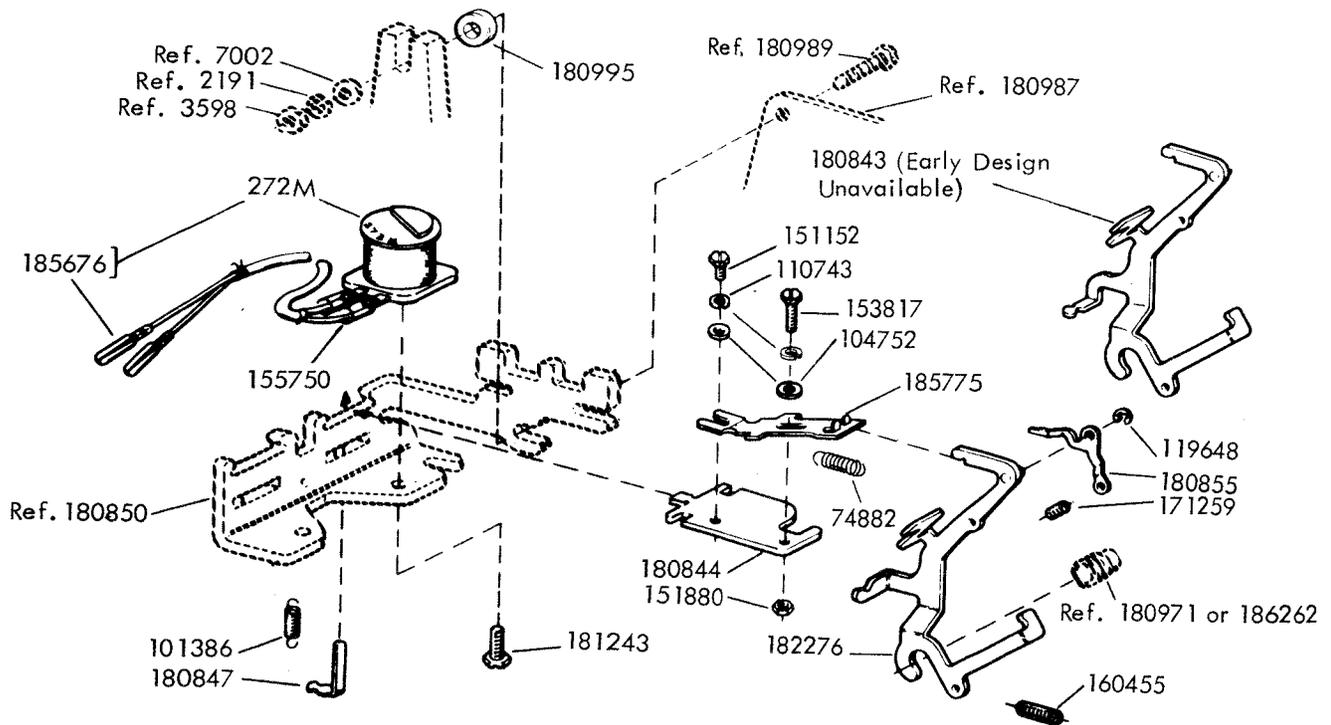
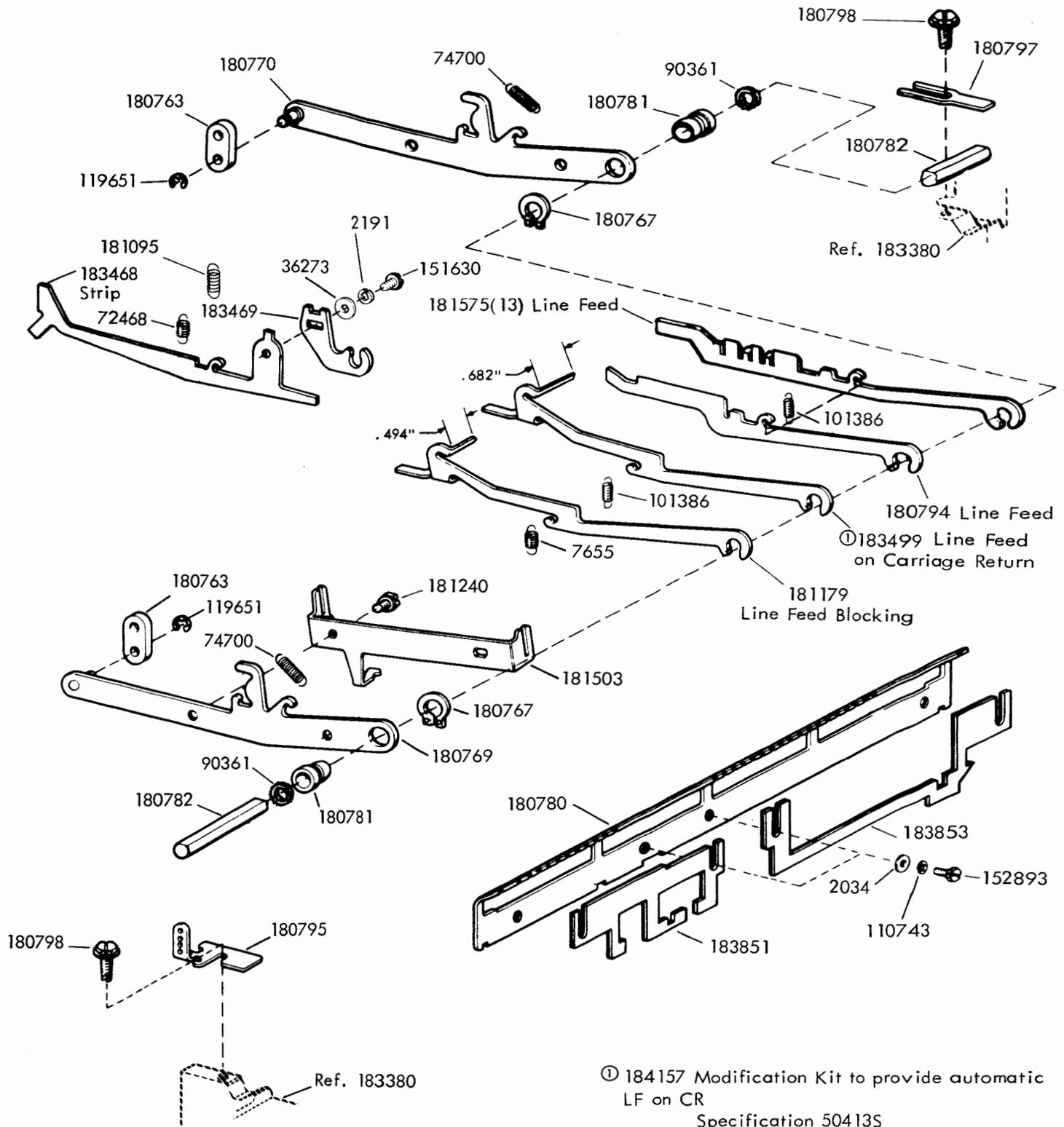
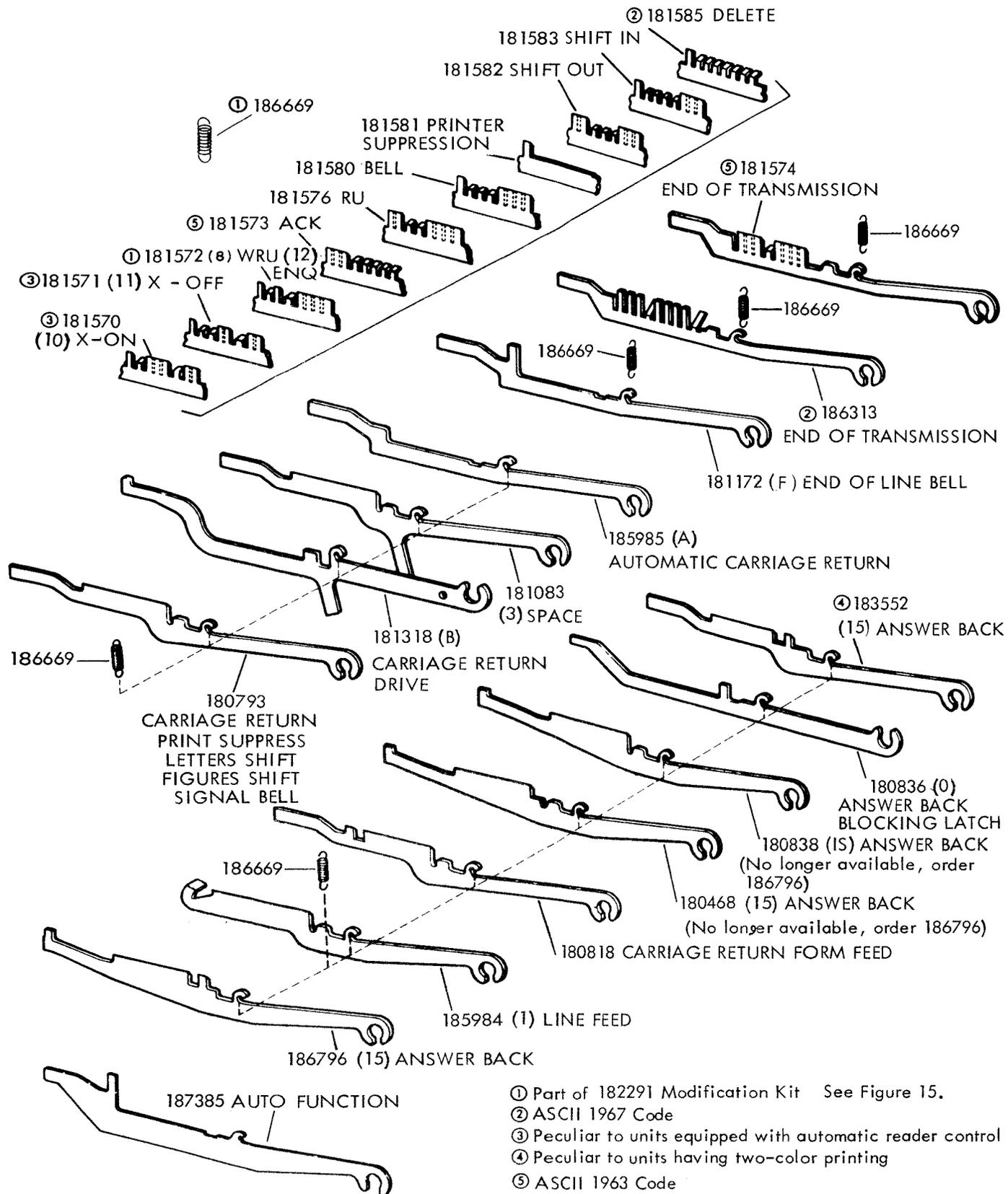


Fig. 22 - Answer-Back Trip Magnet Mechanism



① 184157 Modification Kit to provide automatic LF on CR
 Specification 504135
 Number in parenthesis () indicates slot number

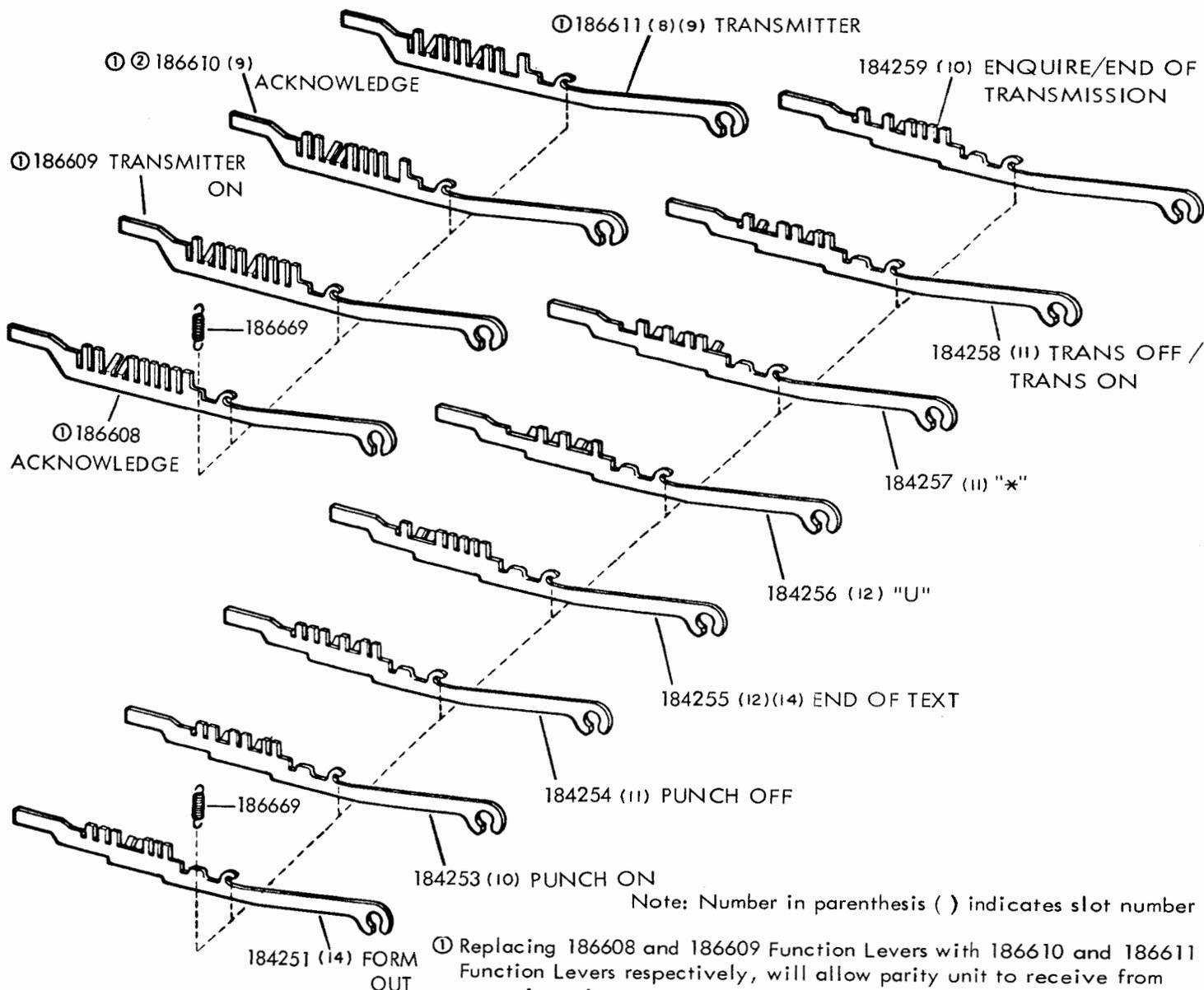
Fig. 23 - Line Feed Function Lever Mechanism



- ① Part of 182291 Modification Kit See Figure 15.
- ② ASCII 1967 Code
- ③ Peculiar to units equipped with automatic reader control
- ④ Peculiar to units having two-color printing
- ⑤ ASCII 1963 Code

NOTE: Number or letter in parenthesis () indicates slot number

Fig. 24 - Function Levers



Note: Number in parenthesis () indicates slot number

① Replacing 186608 and 186609 Function Levers with 186610 and 186611 Function Levers respectively, will allow parity unit to receive from nonparity unit.

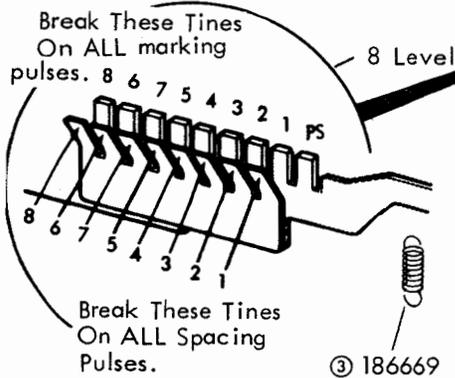
② ASCII 1967 Code

③ Coding a 180801 Uncoded Universal Function Lever, To perform a special function or contact closure, is to be done before installation of part. For 8 level usage starting at pivoted end, the tines are numbered 8,6,7,5,4,3,2,1 and PS, tines 6 and 7 are not in numerical order. Choose the code combination the lever is to respond to. Note marking pulses. Break off the straight tines whose number corresponds to the marking pulses. Break off the bent tines whose number corresponds to the spacing pulses.

PS-Refers to Print Suppression and is broken off when printing is desired.

On eight level codes, break both tines on position 8 unless respond to parity level (8th) is required.

③ Part of 182290 Modification Kit - See Figure 14.



③ 186669

Fig. 24 - Function Levers (Cont)

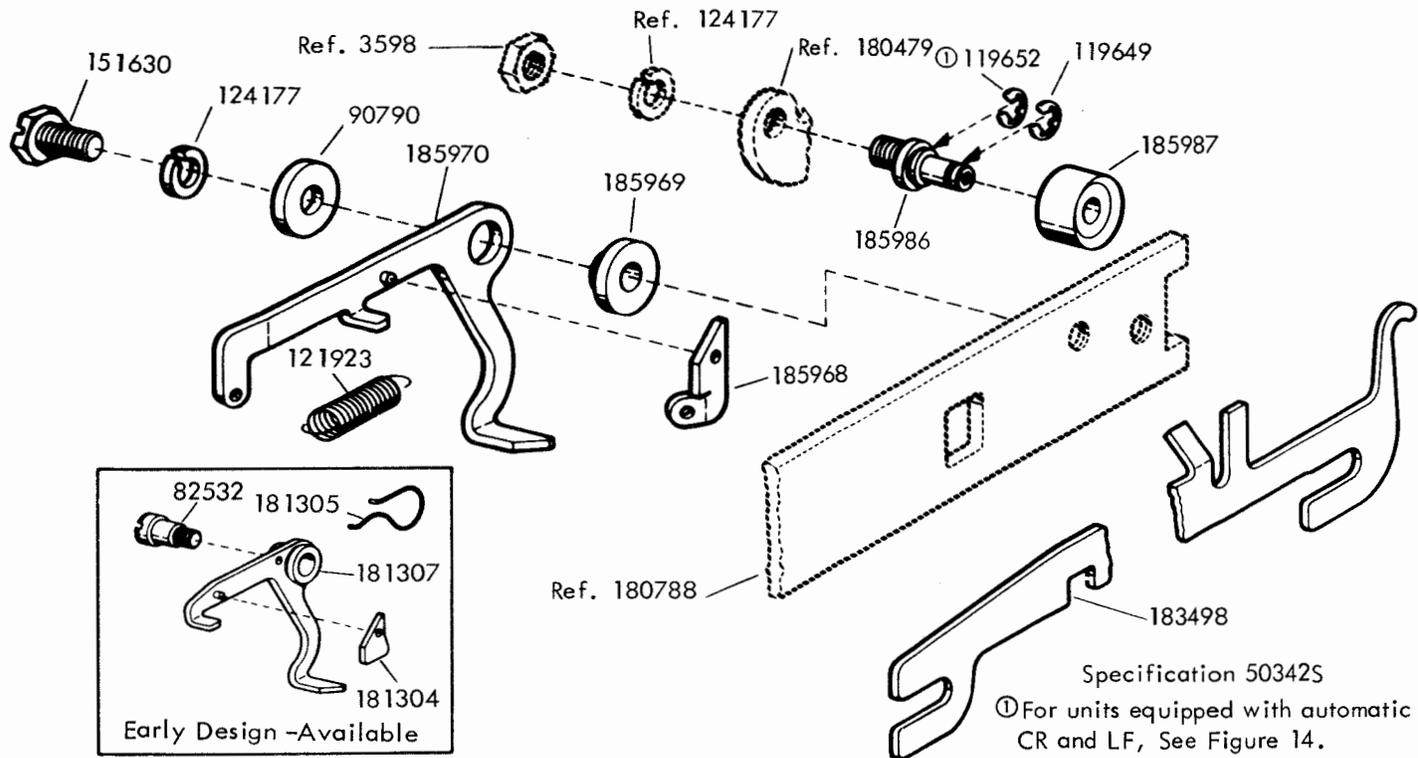


Fig. 25 - 185971 Modification Kit to Provide Printer With a Margin Bell to Ring On Approximately The 61st Character

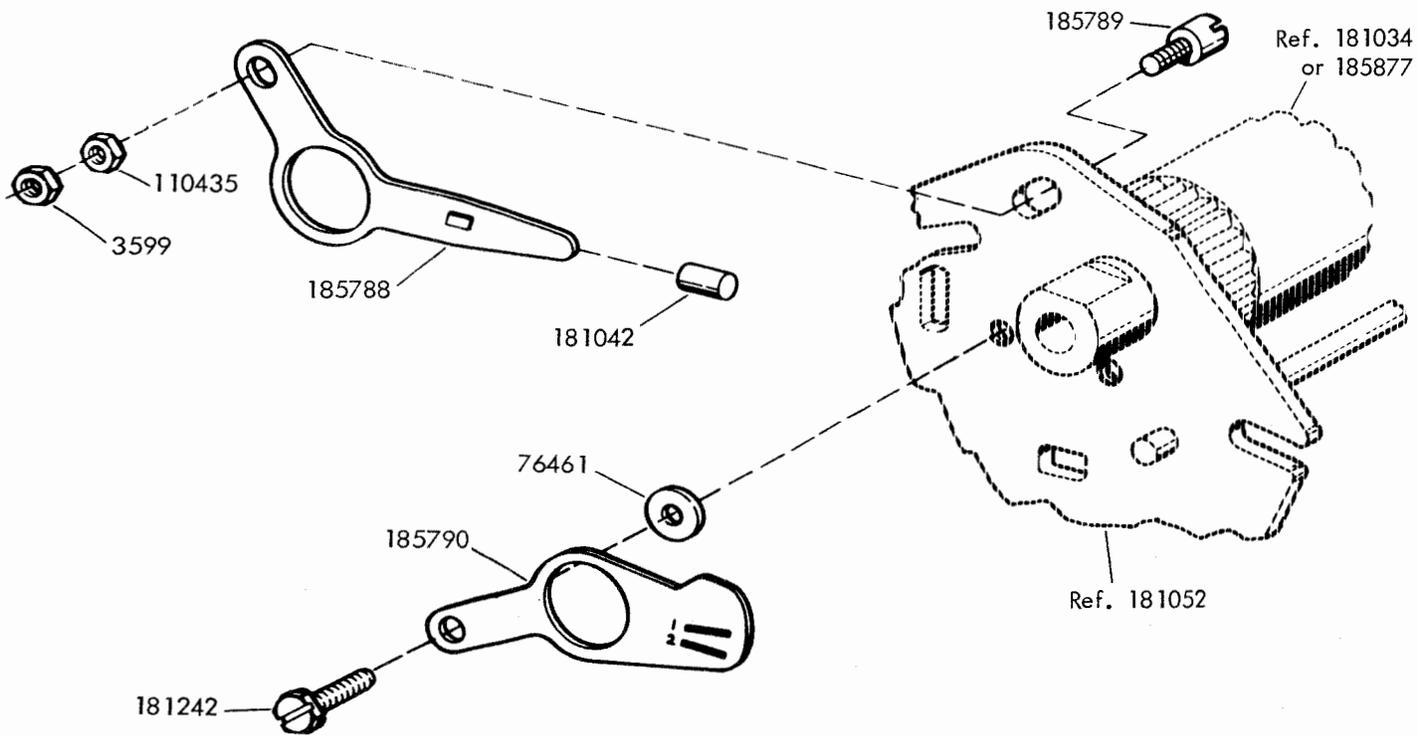
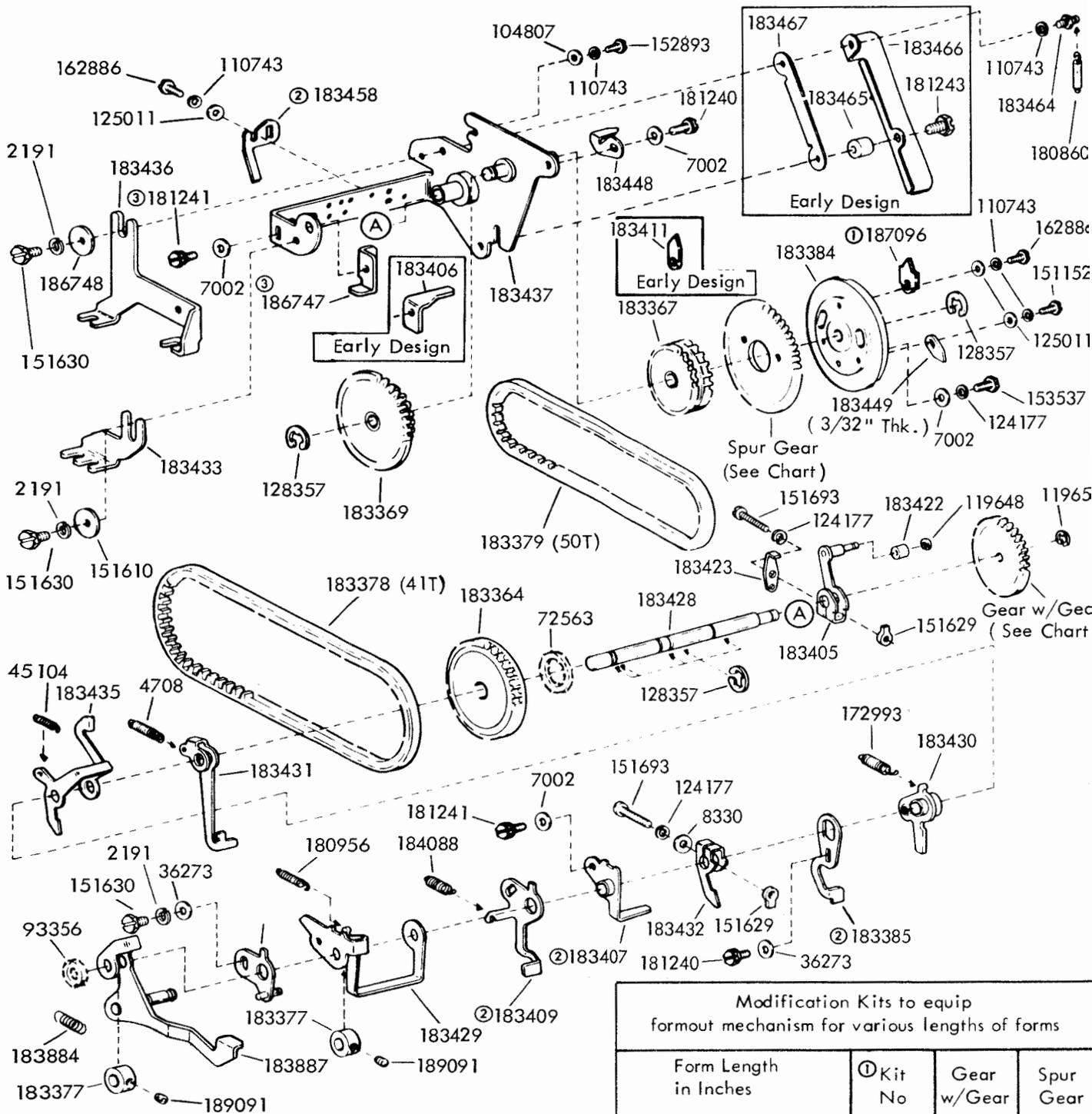


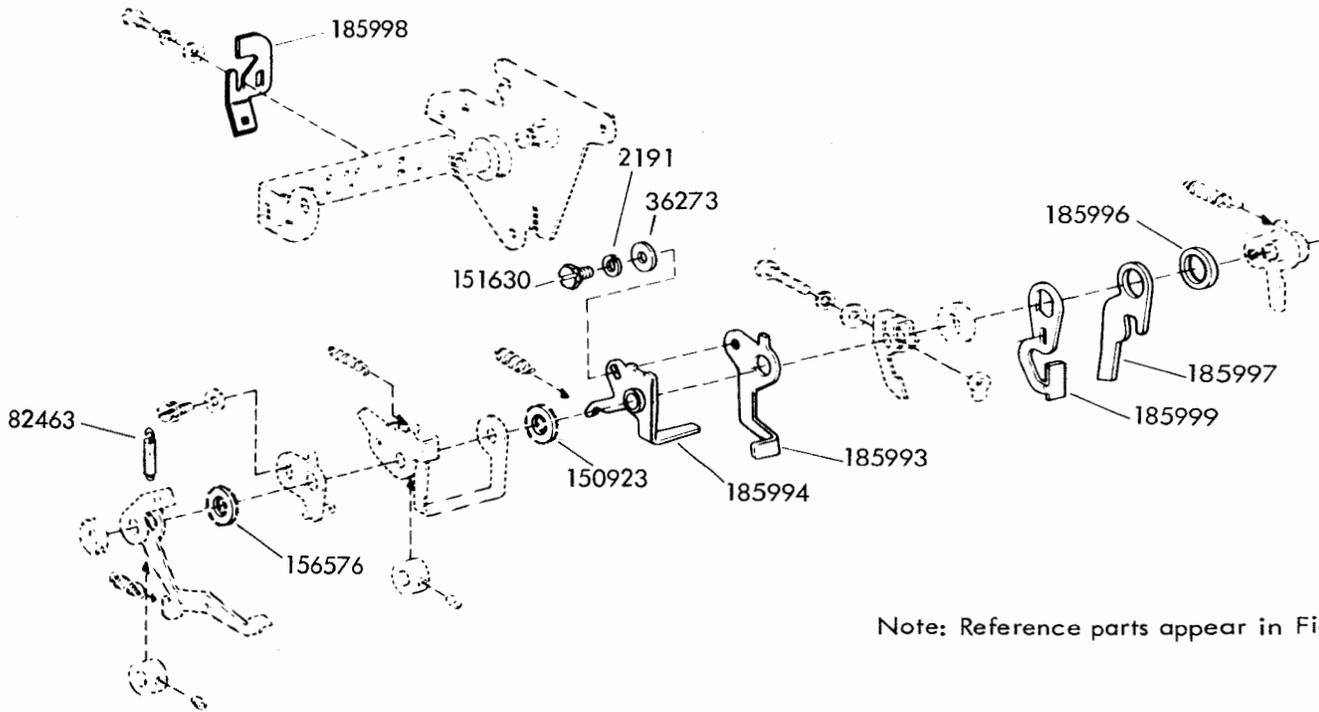
Fig. 26 - 185791 Modification Kit to Provide Controller Single or Double Line Feed Feature on Friction Feed Printer



- ① The required number of 183411 Early Design and 187096 Late Design Cam Plates and mounting hardware is furnished with each kit. (Specification 50410 S)
- ② Early Design parts. See Figure 31 for Late Design.
- ③ Cancelled

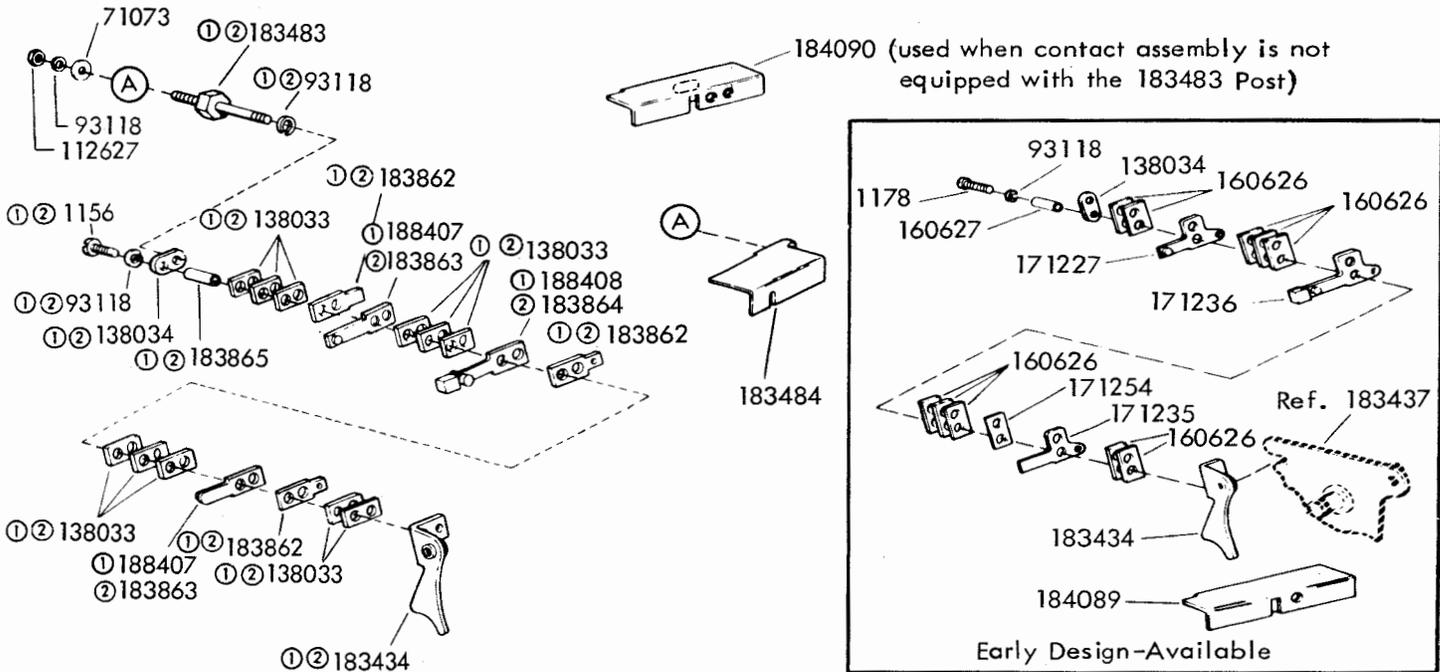
Modification Kits to equip formout mechanism for various lengths of forms					
Form Length in Inches			① Kit No	Gear w/Gear	Spur Gear
11	5-1/2	3-2/3	183877	183391	183398
9	4-1/2	3	183878	183392	183399
7	3-1/2	2-1/3	183879	183393	183400
8	4	2-2/3	183880	183394	183401
8 1/2		2-5/6	183881	183395	183402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

Fig. 28 - Formout Mechanism-Sprocket Feed



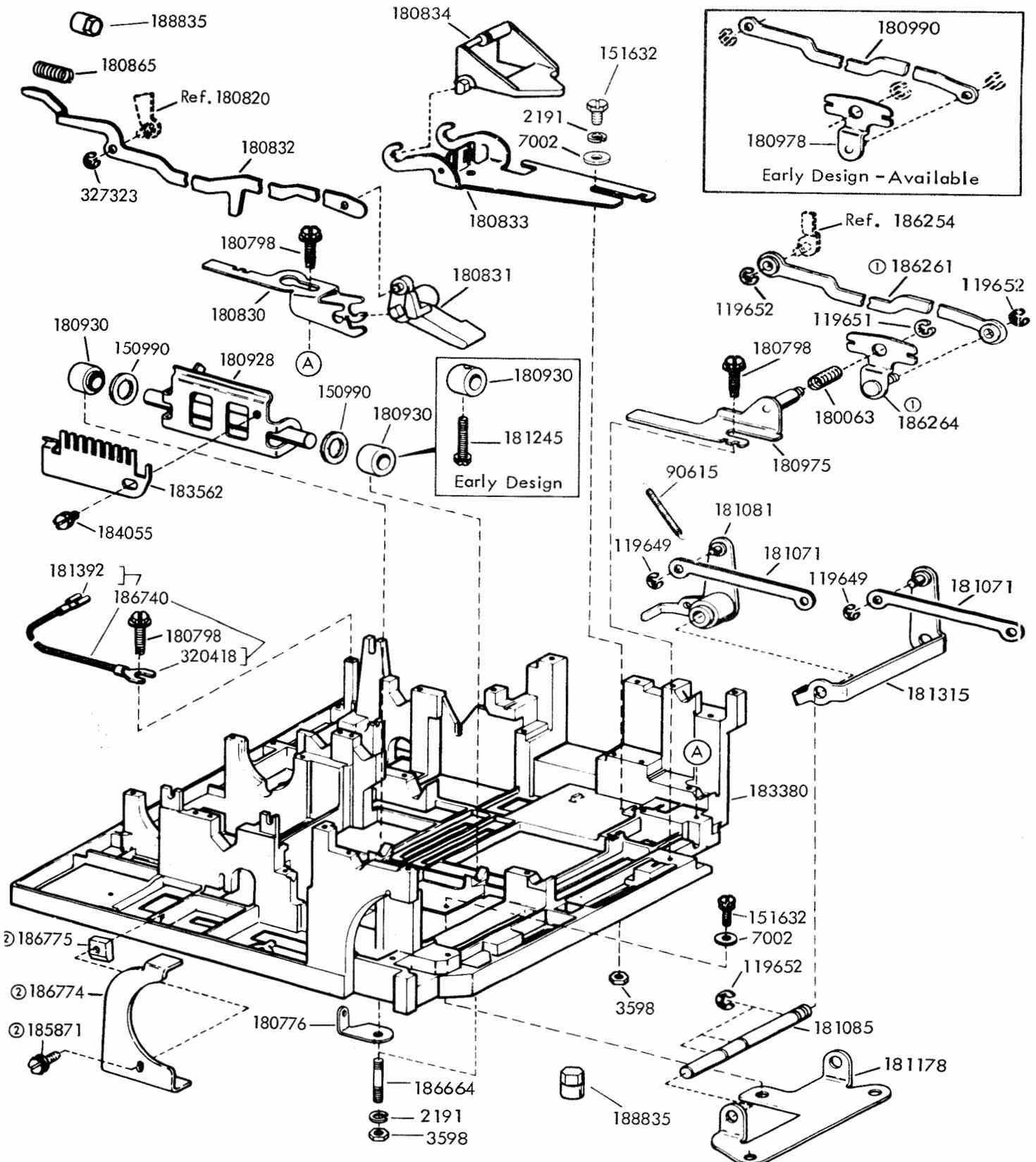
Note: Reference parts appear in Figure 28

Fig. 29 - Later Design Formout Mechanism-Sprocket Feed



- ① 188409 Motor Contact Assembly
- ② 183444 Motor Contact Assembly

Fig. 30 - Formout Contact-Sprocked Feed



① Early and Design distributor trip Linkage parts are interchangeable in sets only.
 ② 186776 Modification Kit to provide a handle. (Specification 507145)

Fig. 32 - Bases

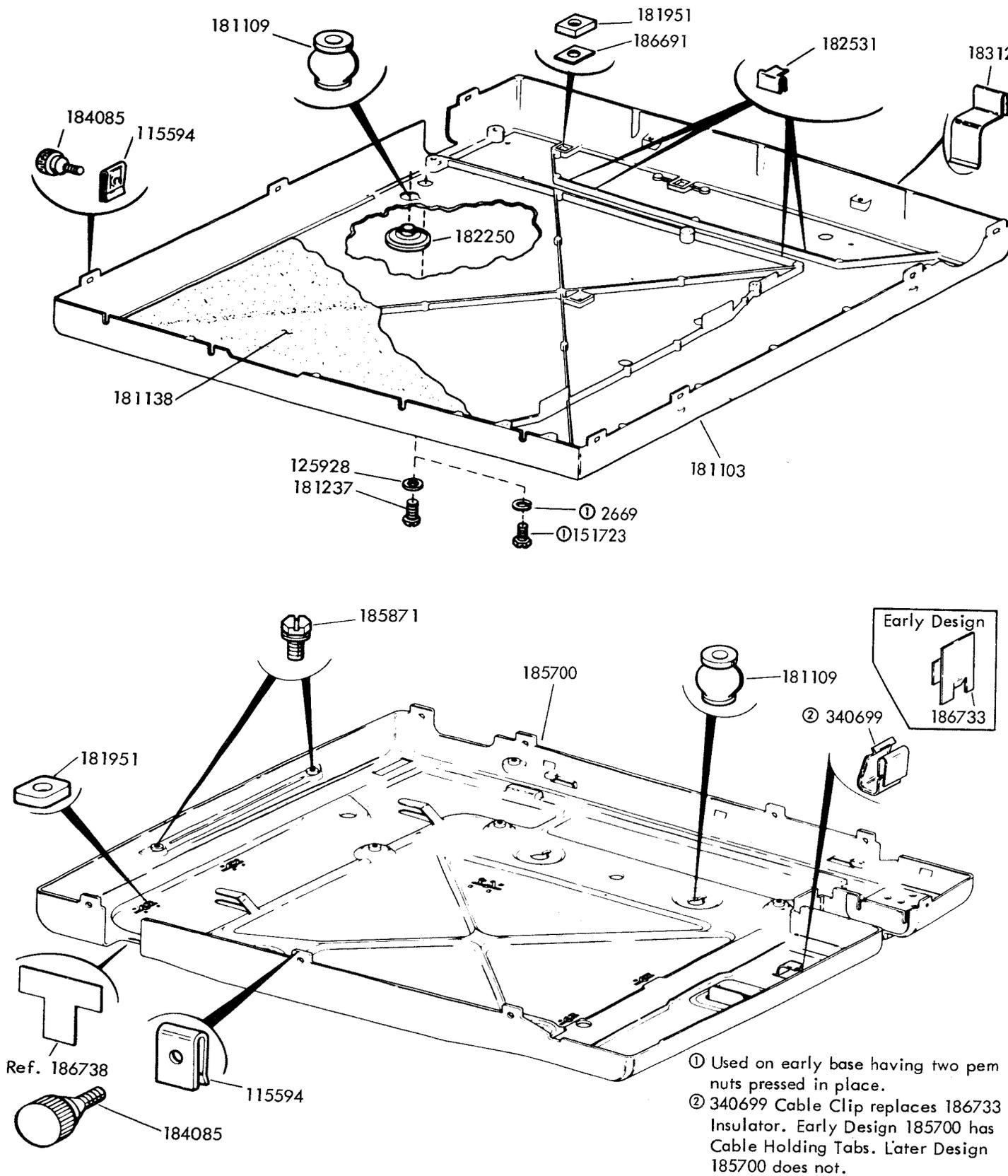


Fig. 33 - Sub Bases

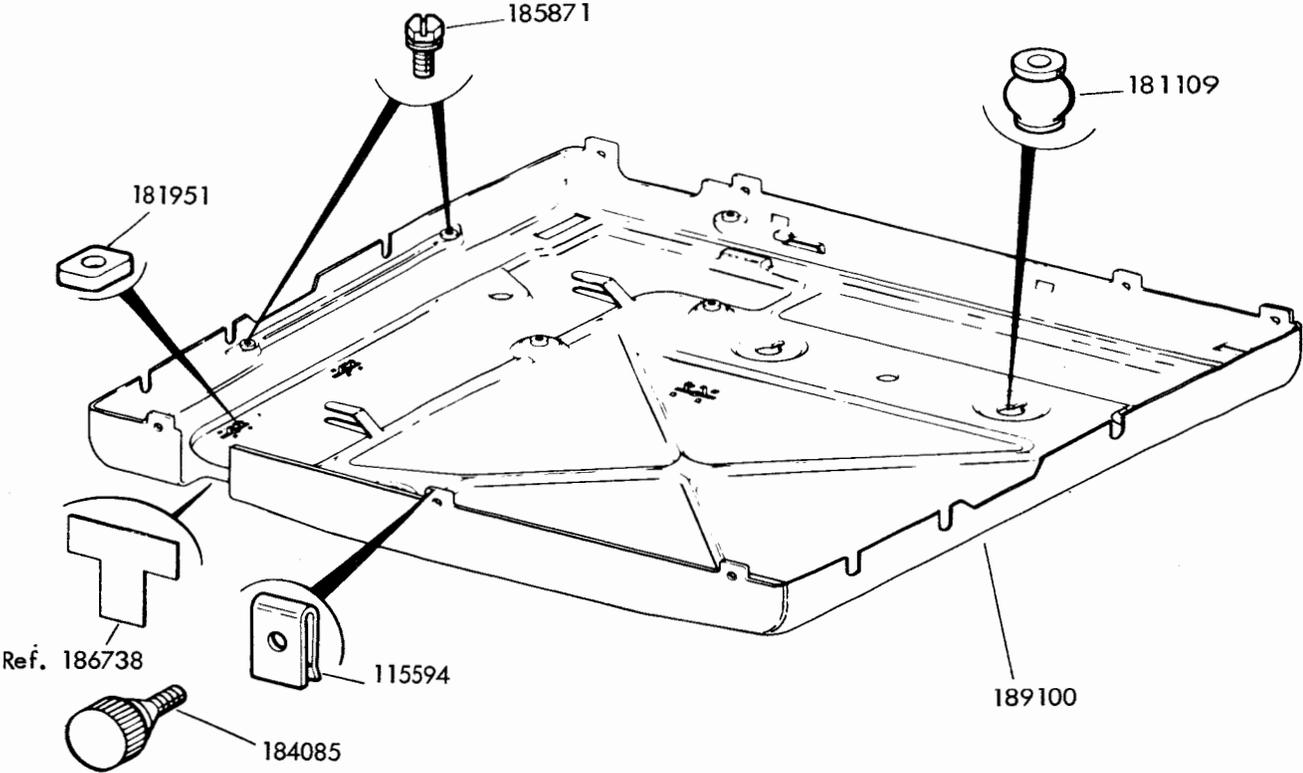
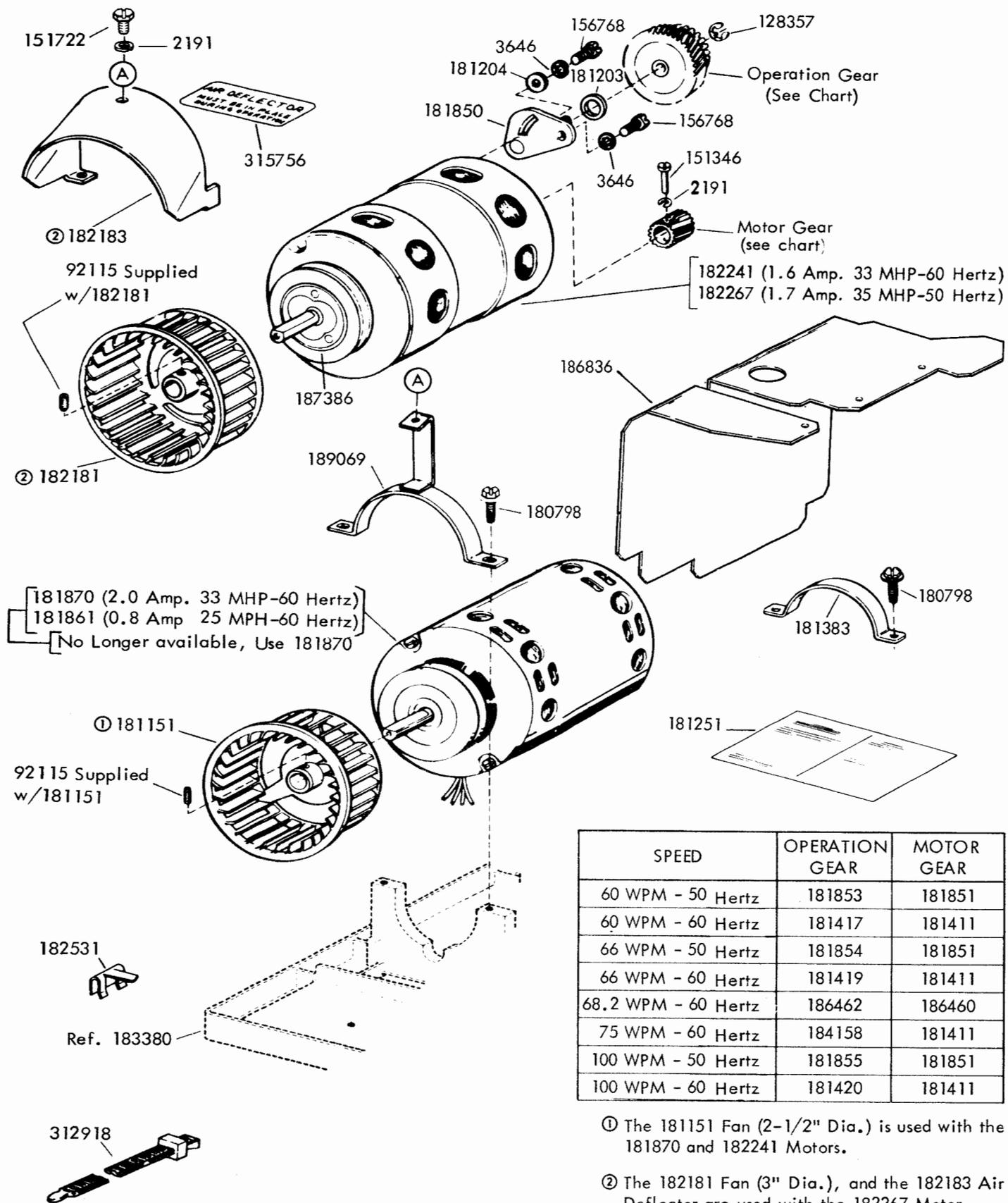


Fig. 33 - Sub Bases (Cont)

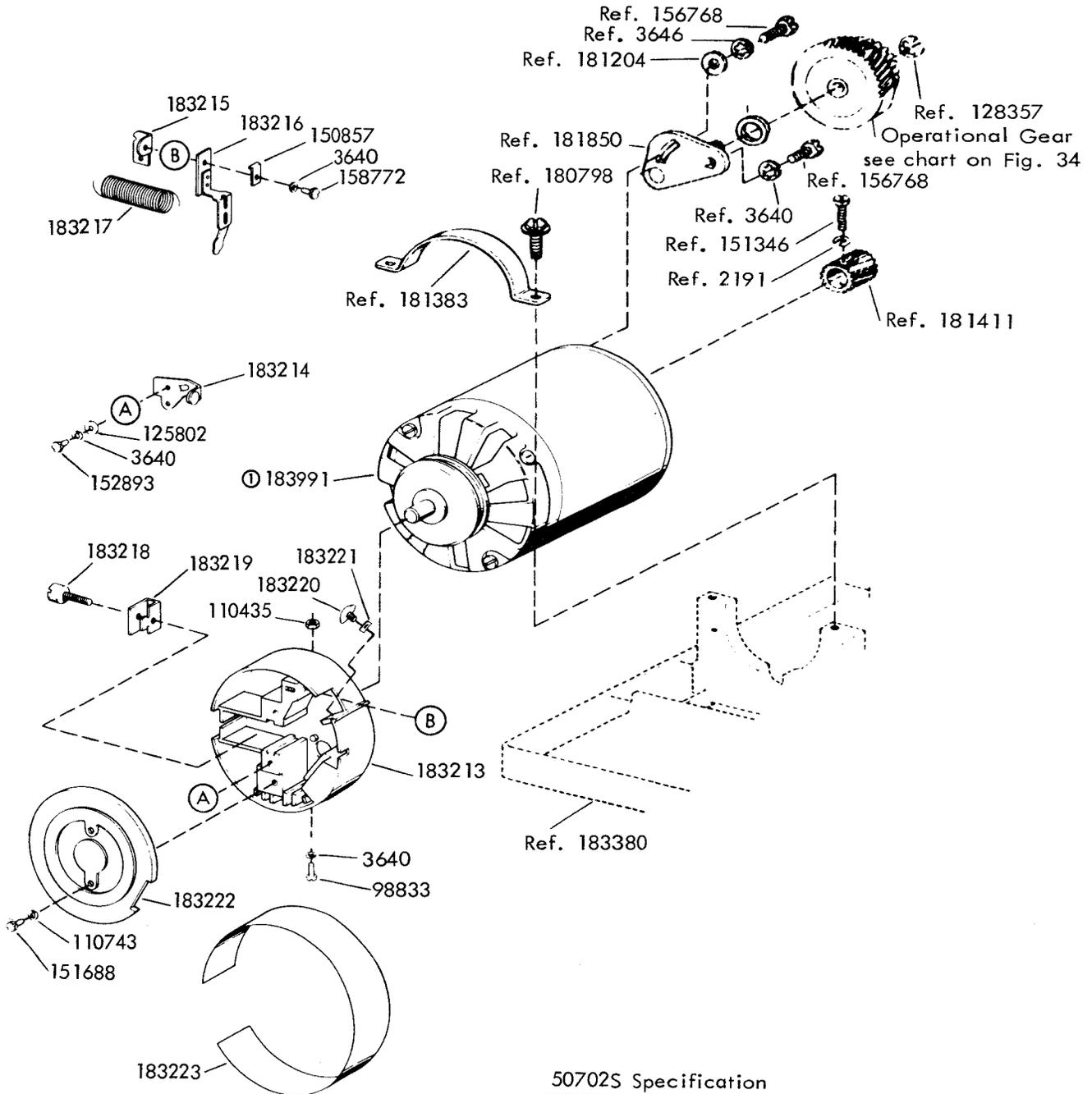


SPEED	OPERATION GEAR	MOTOR GEAR
60 WPM - 50 Hertz	181853	181851
60 WPM - 60 Hertz	181417	181411
66 WPM - 50 Hertz	181854	181851
66 WPM - 60 Hertz	181419	181411
68.2 WPM - 60 Hertz	186462	186460
75 WPM - 60 Hertz	184158	181411
100 WPM - 50 Hertz	181855	181851
100 WPM - 60 Hertz	181420	181411

① The 181151 Fan (2-1/2" Dia.) is used with the 181870 and 182241 Motors.

② The 182181 Fan (3" Dia.), and the 182183 Air Deflector are used with the 182267 Motor.

Fig. 34 - Motors



50702S Specification

① Not part of 183212 Governor Assembly included in the 333521 Motor Assembly

Fig. 35 - 333521 Motor Assembly

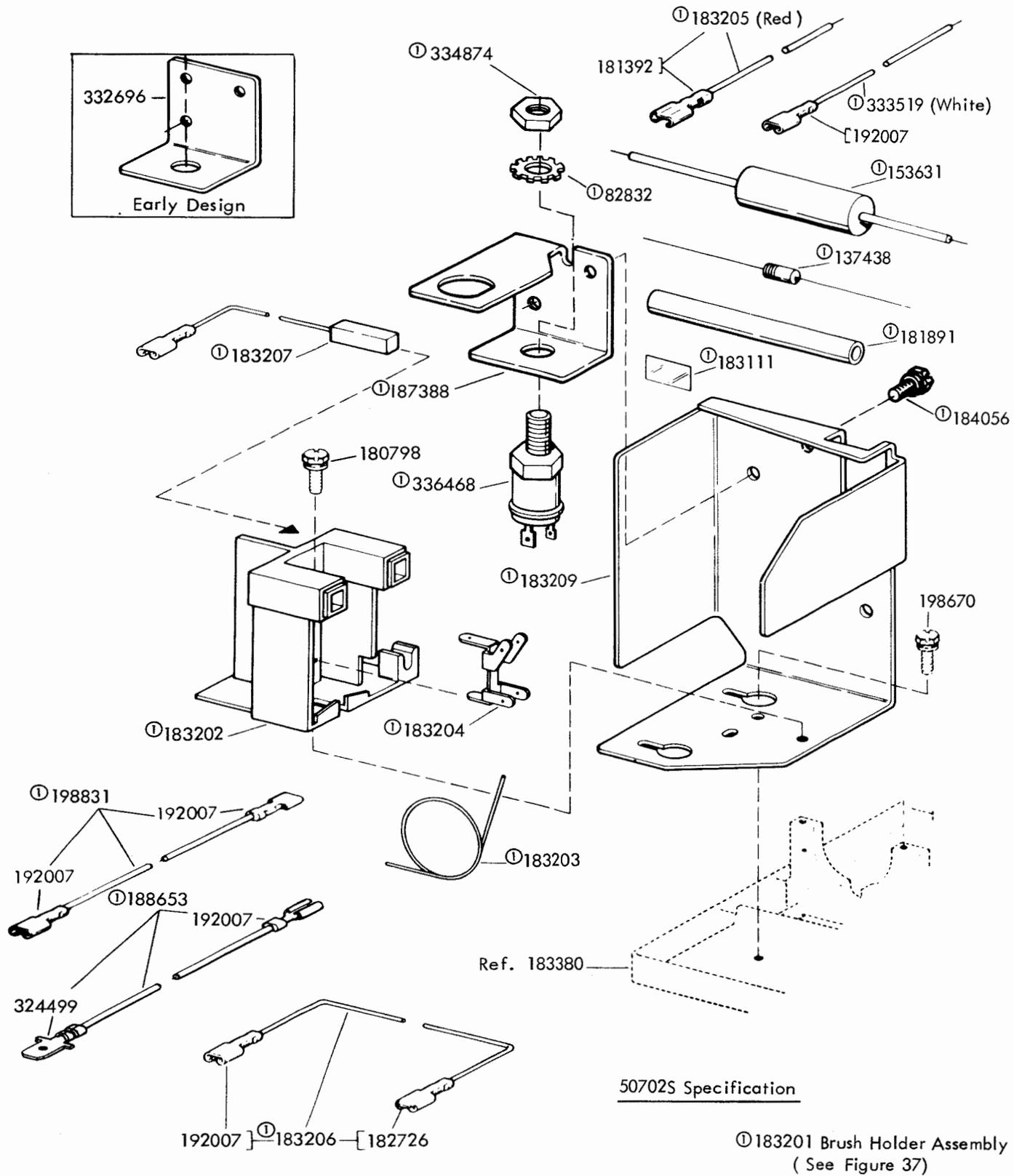
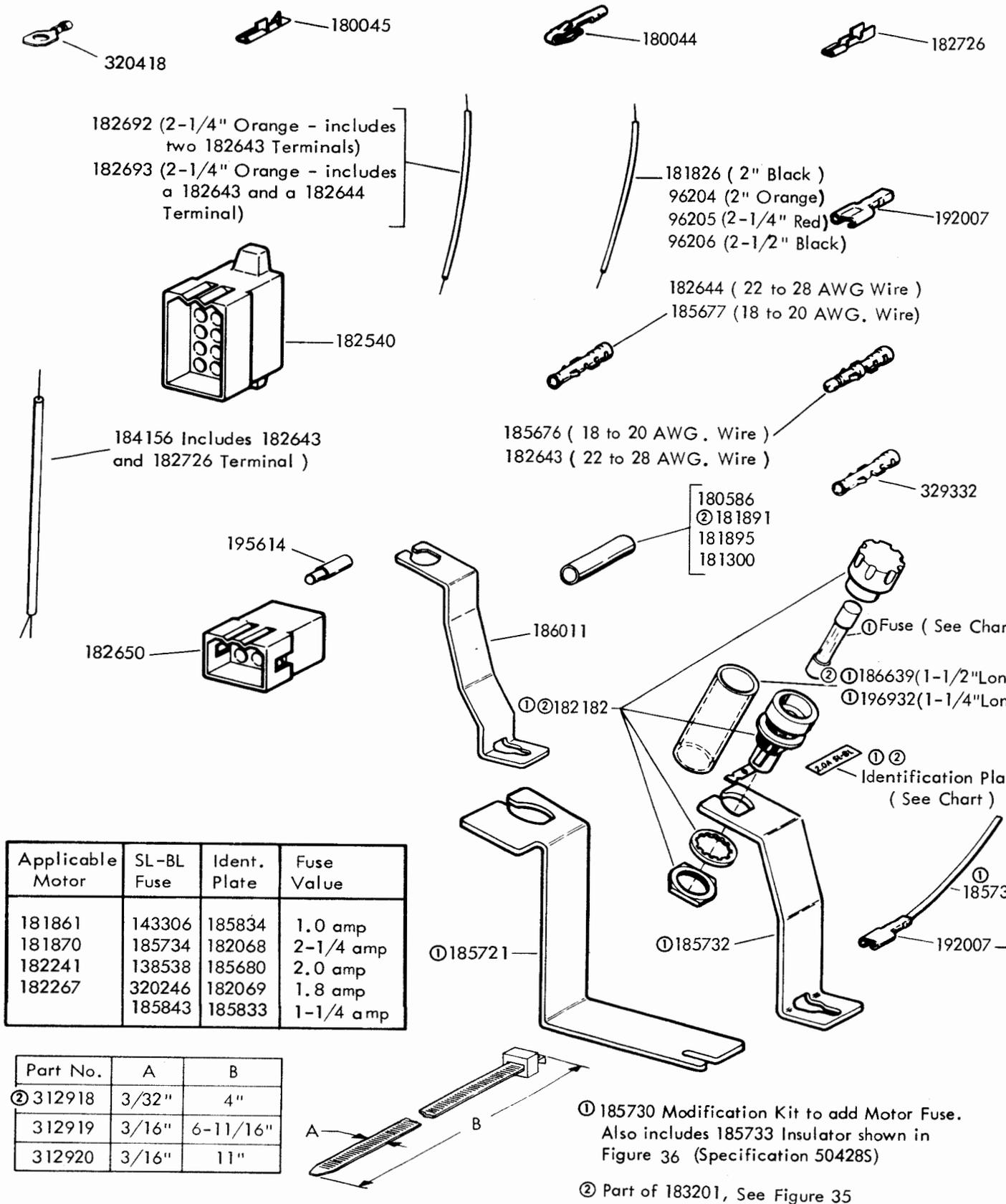


Fig. 35 - 333521 Motor Assembly (Cont)

SECTION 574-122-800TC



Applicable Motor	SL-BL Fuse	Ident. Plate	Fuse Value
181861	143306	185834	1.0 amp
181870	185734	182068	2-1/4 amp
182241	138538	185680	2.0 amp
182267	320246	182069	1.8 amp
	185843	185833	1-1/4 amp

Part No.	A	B
② 312918	3/32"	4"
312919	3/16"	6-11/16"
312920	3/16"	11"

① 185730 Modification Kit to add Motor Fuse. Also includes 185733 Insulator shown in Figure 36 (Specification 504285)

② Part of 183201, See Figure 35

Fig. 37 - 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 22	72563	Washer, Felt 34	104807	Washer, Flat 7,21,34
276M	Coil, Magnet 21	74547	Collar 13	107116	Lockwasher 6
279M	Coil, Magnet 21	74700	Spring 3,23	110435	Nut, 4-40 Hex 2,26,41
286M	Coil, Magnet 21,36	74701	Spring, 3,10,12	110743	Lockwasher 4,6,7,9,10,14, 15,17,20 to 23,34,36,41, 43
295M	Coil, Magnet 21	74716	Bushing, Insulating 17		
300M	Coil, Magnet 21	74882	Spring, 22		
1036	Nut, 6-40 Hex 2	76099	Washer, Flat 8	111410	Washer, Flat 9,19
1156	Screw, 2-56 x 9/16 Fil 35	76422	Spring 13	112127	Hinge 17
1164	Screw, 2-56 x 3/16 Fil 5	76461	Washer, Flat 2,21,26	112128	Retainer 17
1171	Screw, 6-32 x 3/16 Fil 36	80273	Washer, Felt 12	112620	Screw, 4-40 x 1/2 Hex 16
1178	Screw, 2-56 x 7/16 Fil 5,35	80758	Spring 3	112626	Nut, 10-32 Hex 6
1210	Screw, 2-56 x 5/8 Fil 5	80945	Spring 13	112627	Nut, 2-56 Hex 35
2034	Washer, Flat 6,10,20,23	81726	Terminal 12	112630	Spring 3
2167	Ball, Bearing 9	81731	Spring 7,8,20	112634	Spring 6
2191	Lockwasher 2,4,5,7,9 to 16,18 to 23,34 to 37,40,41	82392	Shim, .004" Thk 14,36	112284	Plate 17
2669	Lockwasher 6,38	82463	Spring 35	114107	Spring 10
3598	Nut, 6-40 Hex 2,4,6 to 10, 14,16 to 22,26,36,37	82532	Screw, 6-40 Shoulder 26	115594	Nut, Speed 38,39
3599	Nut, 4-40 Hex 2,4,6,7,9,10, 15,20,26	82538	Screw, 6-40 x 5/16 Hex 21,36	119421	Washer, Flat 2,5
3606	Nut, 6-40 Hex 2,8,19,21	82547	Insulator, 0.94" Thk 17	119648	Ring, Retaining 8,10,19, 22,34,36
3608	Spring 6	82548	Insulator .062" Thk 17	119649	Ring, Retaining 3,4,7 to 10,13,15 to 17,26,37
3640	Lockwasher 17,41	83832	Lockwasher 41	119650	Ring, Retaining 3
3646	Lockwasher 2,5,36,40,41	83877	Spring 10,17	119651	Ring, Retaining 2,3,4,6 to 8,10 to 12,14,23,34,36,37
3864	Spring 21	84226	Spring 3,10	119652	Ring, Retaining 36,37
4703	Spring 10	84575	Spring 3,8,10,14	119653	Ring, Retaining 6,19,20
4708	Spring 34	86283	Spring 15	119654	Ring, Retaining 6,20
5599	Nut, 8-32 Hex 21	87398	Washer, Flat 4	120595	Follower, Cam 17
7001	Washer, Flat 19	90096	Washer, Insulating 19	121018	Nut, 4-40 Hex 9
7002	Washer, Flat 2 to 10,13, 15,17 to 22, 33,36,37	90361	Washer, Felt 23	121100	Spring 17
7655	Spring 23	90432	Washer, Flat 10	121630	Washer, Flat 21
8330	Washer, Flat 13,34	90615	Spring 10,37	121923	Spring 26
31636	Spring 4,5,20	90790	Washer, Flat 10,15,16,26	124177	Lockwasher 2 to 5, 7 to 10,14,16 to 21,26,34,36
33765	Washer, Flat 3	91120	Spring 3	124612	Screw, 8-32 x 1/2 Hex 2
36273	Washer, Flat 12,23,34,35	92115	Setscrew, 8-32 40	124681	Setscrew, 6-40 6,13
36351	Spring 14	92260	Lockwasher 11,12	125011	Washer, Flat 15,17,34
41732	Plate, Clamp 21	93527	Lockwasher 11,12	125015	Washer, Flat 9,14,16,17, 18
42661	Spring 10	92527	Lockwasher 21	125112	Screw, 2-56 x 1/8 Fil 17
42823	Washer, Flat 43	93117	Lockwasher 3,5,16	125181	Screw, 2-56 x 2/8 Fil 16
44048	Washer, Flat 3,16,20	93118	Lockwasher 5,17,35	125252	Spring 15
45027	Spring 8	93356	Washer, Felt 34	125802	Washer, Flat 15,41
45104	Spring 34	93984	Lockwasher 19	125928	Washer, Flat 35,38
49054	Screw, 2-56 x 3/16 Flat 6	93985	Lockwasher 2,3,5,16	128357	Ring, Retaining 21,34
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