

32 and 33 TYPING UNIT (UP)

PARTS

FIGURE	CONTENTS	PAGE
1	Platen Mechanism - Friction Feed	2
2	Paper Handling Mechanism - Friction Feed	3
3	Platen Mechanism - Sprocket Feed (8-1/2" Paper)	4
4	Ribbon Feed Mechanism	5
5	Carriage Upper Plate Mechanism	6
6	Carriage Lower Plate Mechanism	7
7	Carriage Power Bail Mechanism	8
8	Carriage Drive Bail Mechanism	9
9	Main Shaft Mechanism - Friction Feed	10
10	Main Shaft Mechanism - Sprocket Feed	11
11	Clutch Trip Lever Mechanism	12
12	Code Bar Basket Mechanism	13
13	Function Bar Mechanism	14
14	Function Shaft Mechanism	15
15	Selector Frame Mechanism	16
16	Clutch Trip	17
17	Distributor Clutch Mechanism	18
18	Trip Shaft Mechanism	19
19	Drive Arm Mechanism	20
20	Clutch Trip Mechanism	20
21	Answer-Back Drum Mechanism	21
22	Answer-Back Trip Magnet Mechanism	21
23	Coding of Answer-Back Drum - 5 Level	22
24	Coding of Answer-Back Drum - 8 Level	23
25	Line Feed Function Lever Mechanism	24
26	Function Levers	25
27	Uncoded Function Lever - 5 Level	26
28	Uncoded Function Lever - 8 Level	27
29	Formout Mechanism - Sprocket Feed	28
30	Contact Assembly - Sprocket Feed	29
31	Casting	30
32	Sub-Base	31
33	Motors	32
34	Cable Components	33
	Numerical Index	34

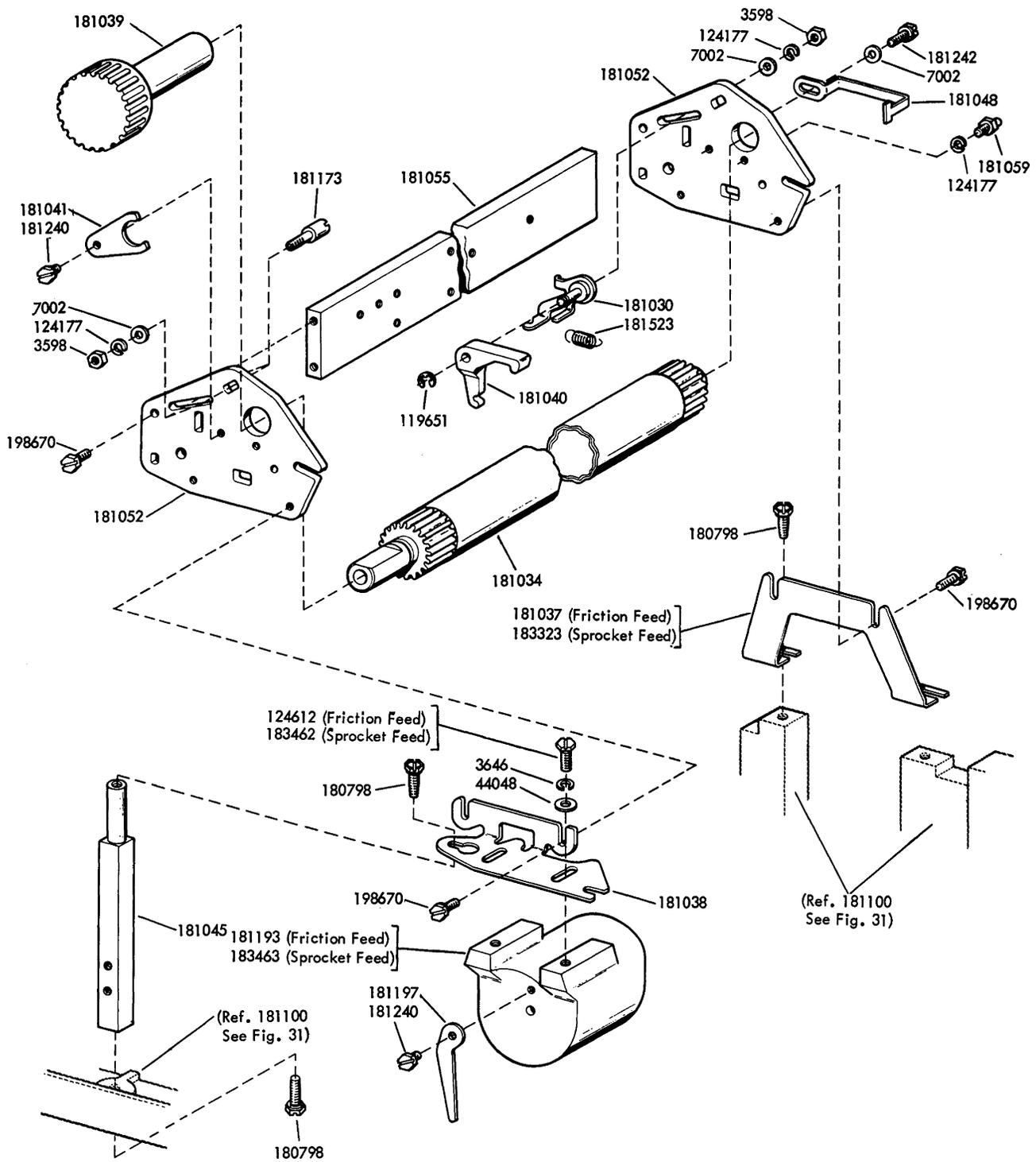


FIGURE 1. PLATEN MECHANISM - FRICTION FEED

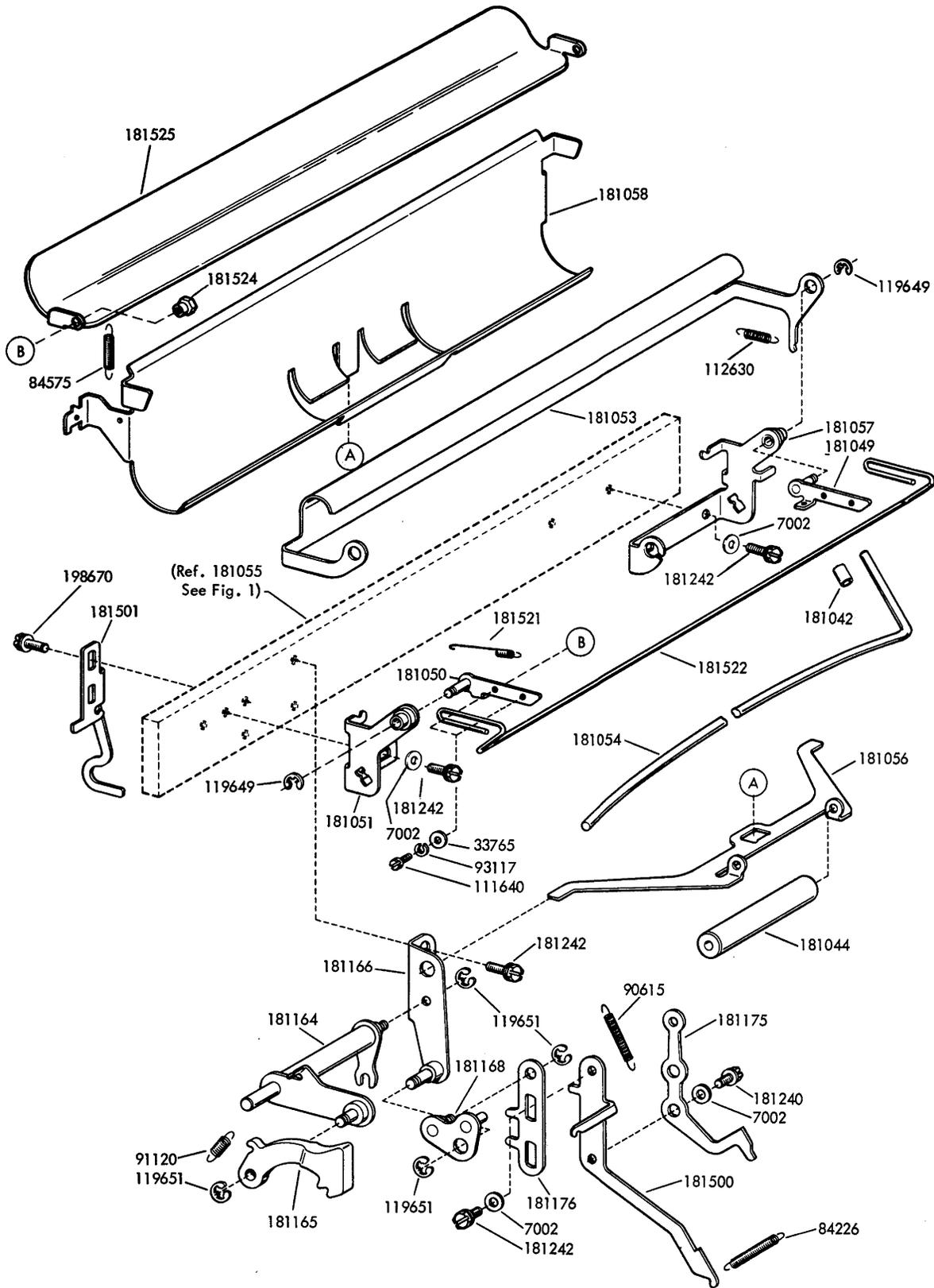
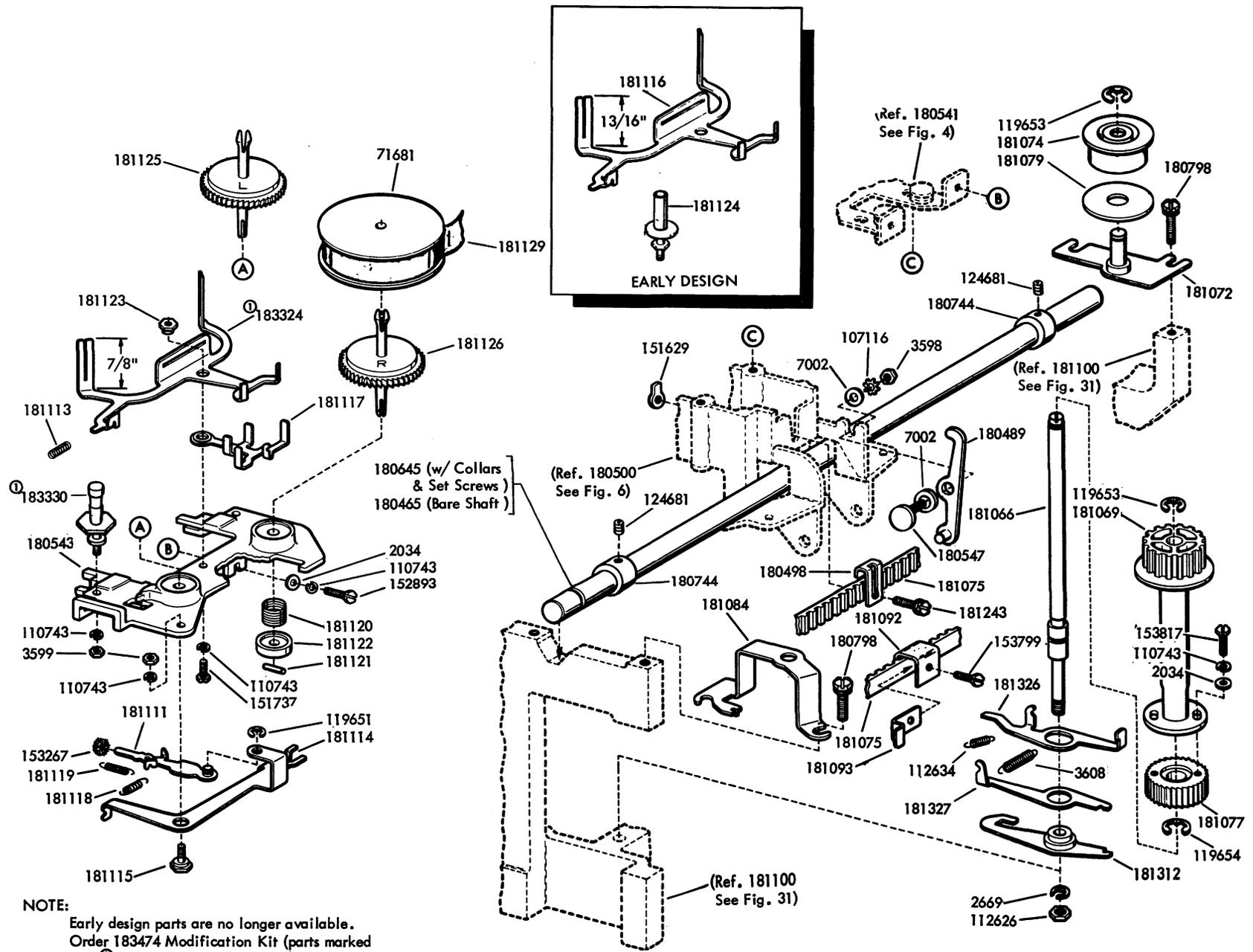


FIGURE 2. PAPER HANDLING MECHANISM - FRICTION FEED

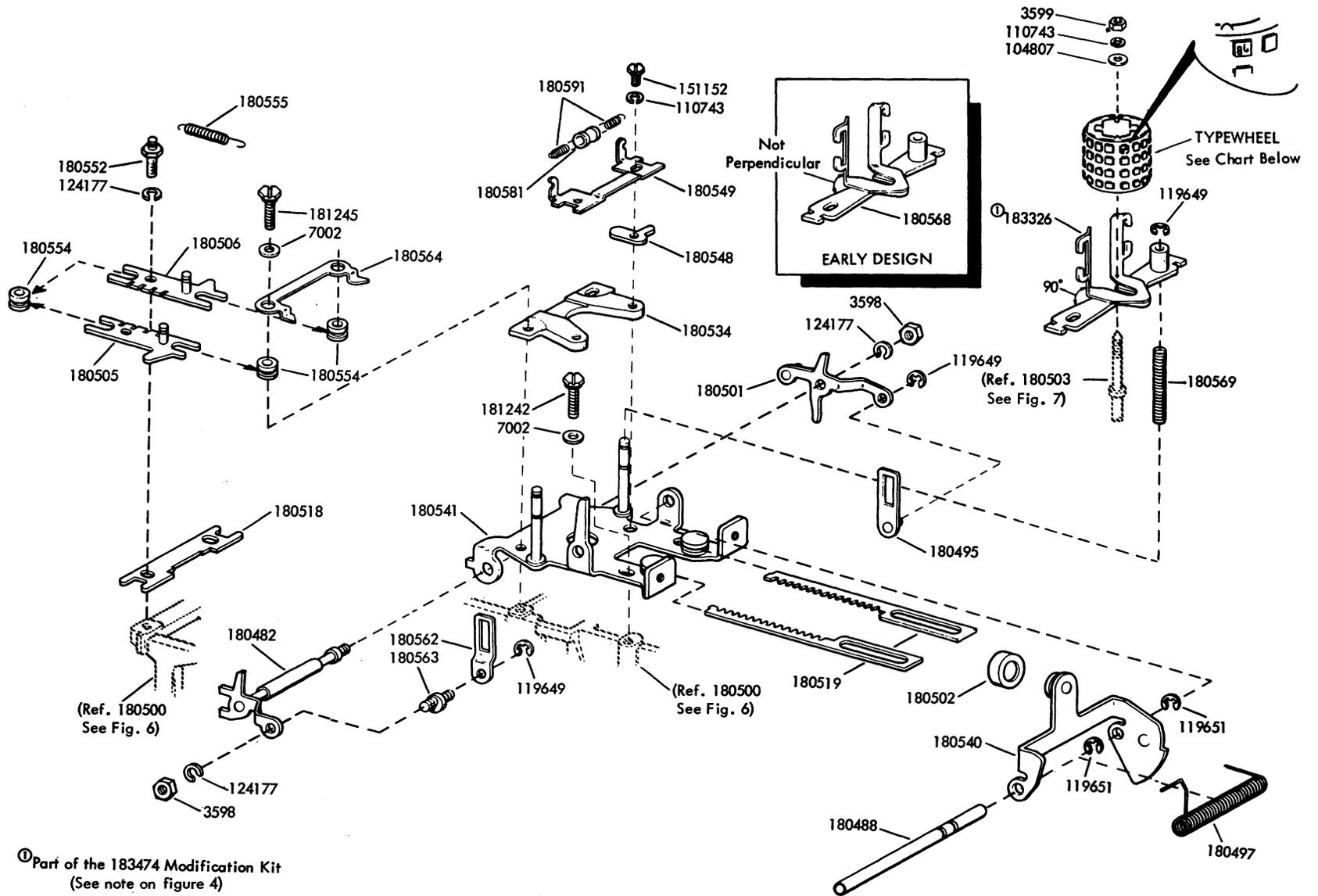
FIGURE 4. RIBBON FEED MECHANISM



NOTE:

Early design parts are no longer available. Order 183474 Modification Kit (parts marked with ⓐ on this figure and figure 5) when replacing early design parts.

FIGURES 5. CARRIAGE UPPER PLATE MECHANISM



① Part of the 183474 Modification Kit
(See note on figure 4)

		TYPEWHEEL CHART													
5 LEVEL	PART NUMBER	180460	180596	180597	181302	182288	182289	183587	183962	182296	184684	184687	183963	183964	
	ARRANGEMENT	JA	JB	JC	JD	JE	JF	JG	JH	JJ	JK	JL	JM	JN	
8 LEVEL	PART NUMBER	180598	182280	182293	183588	183599	183992	184685	184686	184688					
	ARRANGEMENT	MA	MB	MC	MD	ME	MF	MG	MH	MJ					

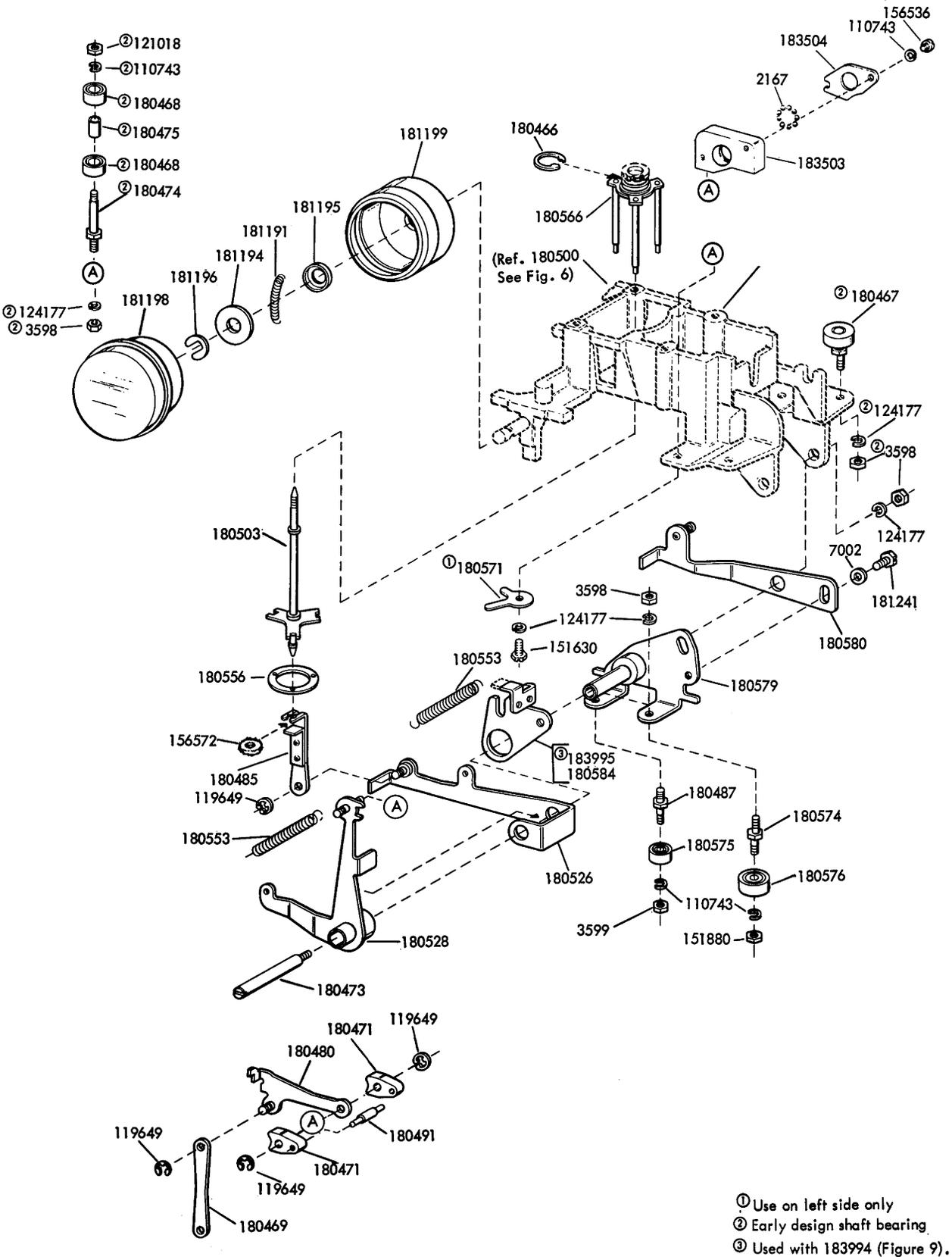
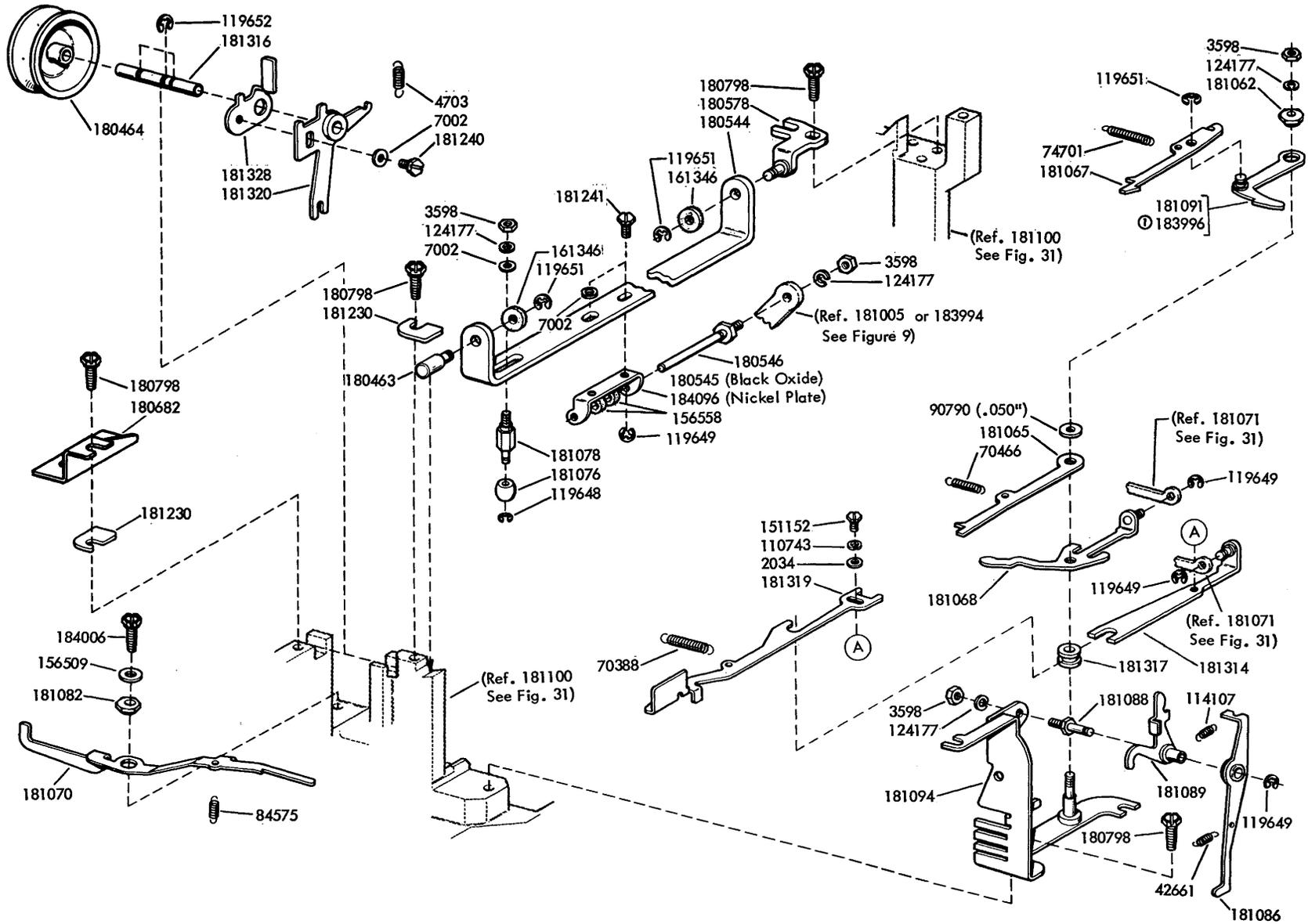


FIGURE 7. CARRIAGE POWER BAIL MECHANISM

FIGURE 8. CARRIAGE DRIVE BAIL MECHANISM



Ⓛ Used with 183994 (Figure 9).

FIGURE 11. CLUTCH TRIP LEVER MECHANISM

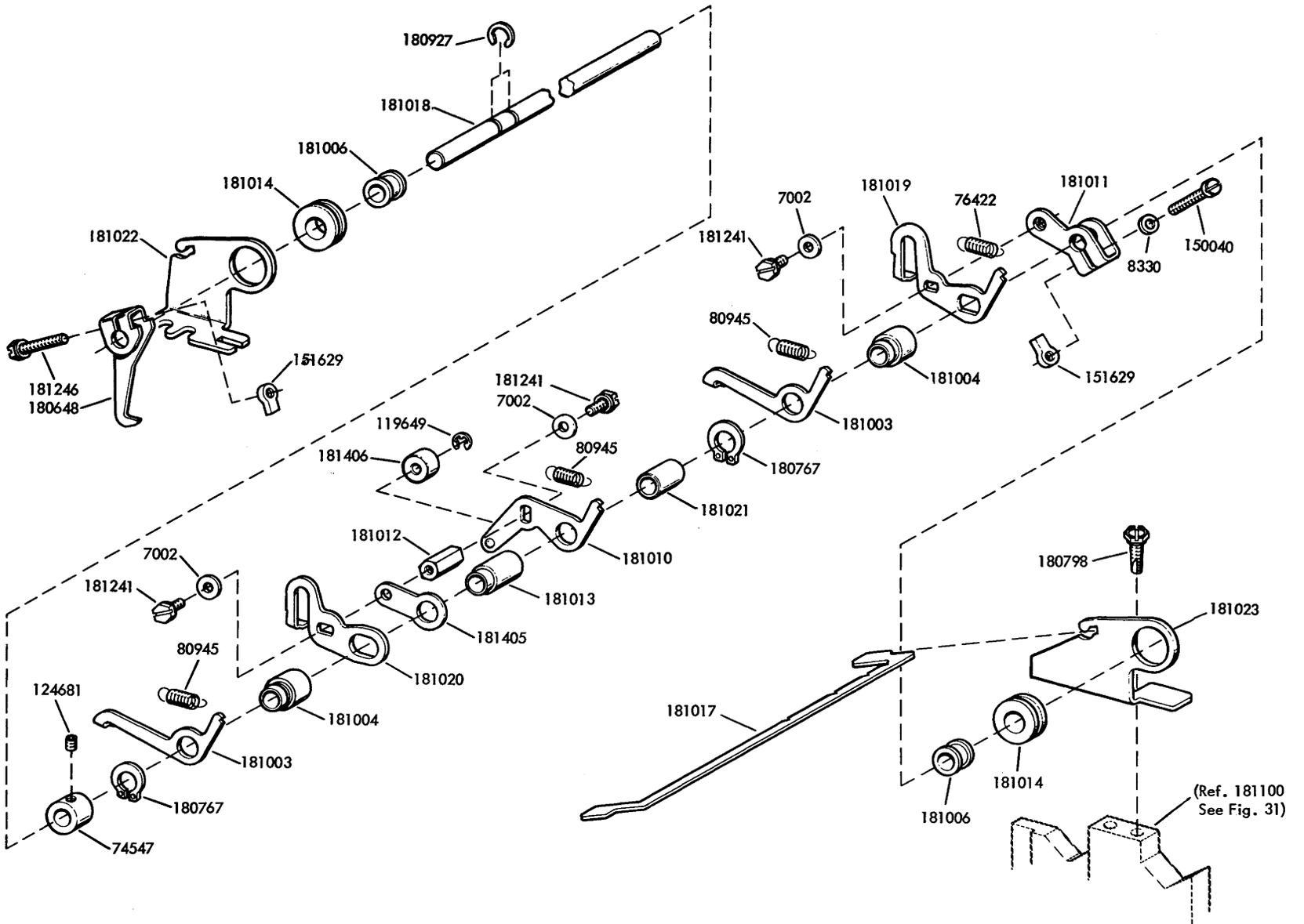


FIGURE 12. CODE BAR BASKET MECHANISM

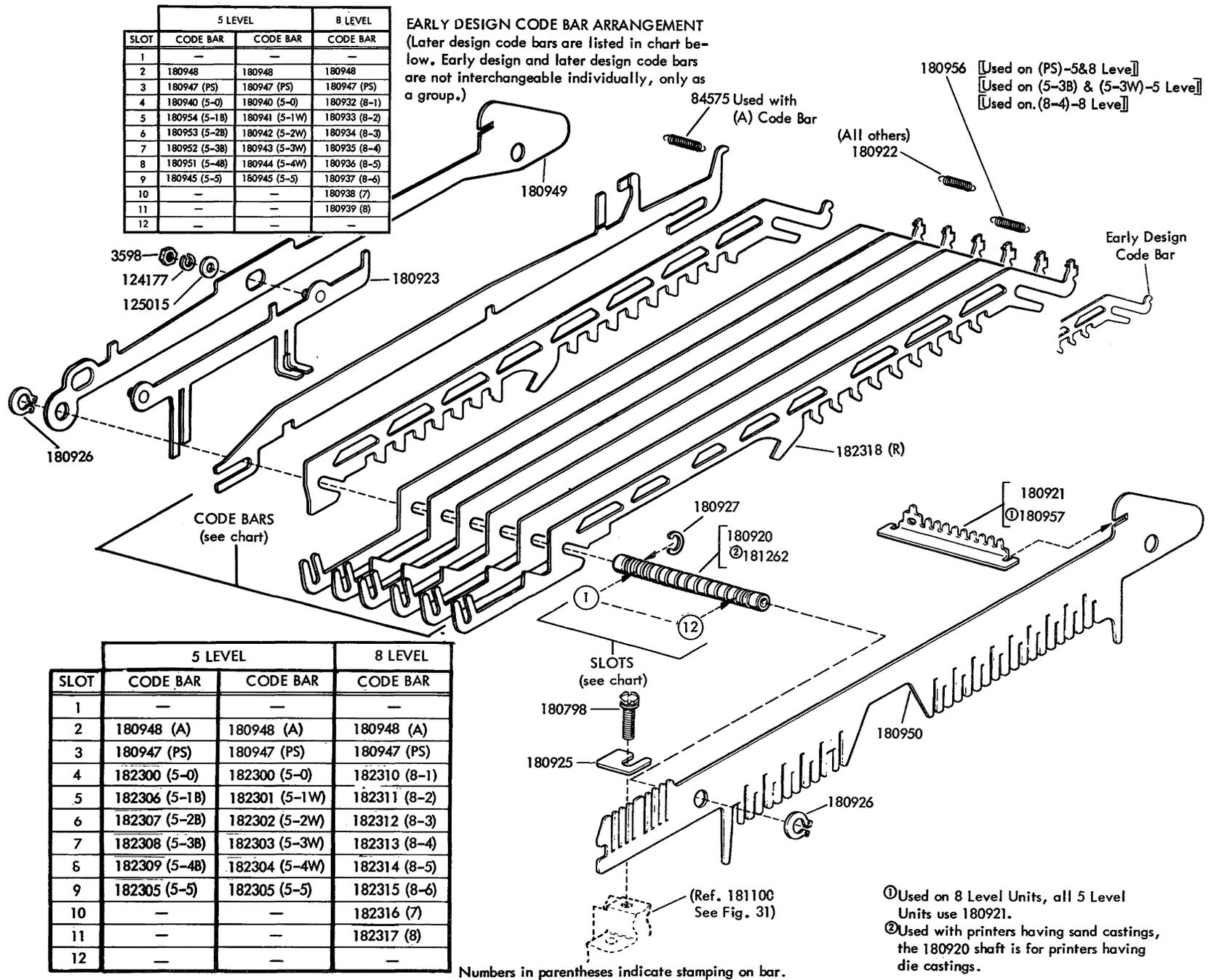


FIGURE 14. FUNCTION SHAFT MECHANISM

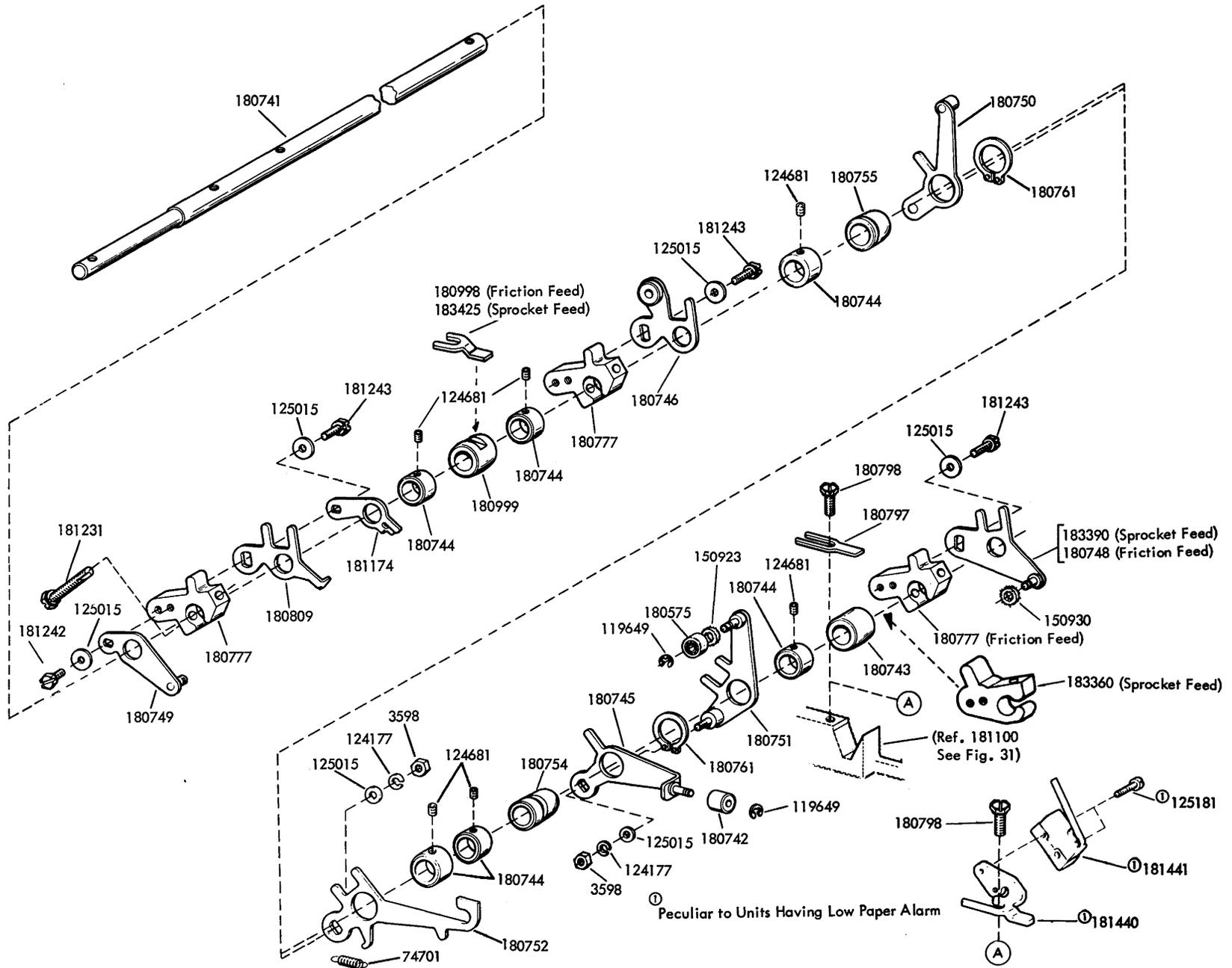


FIGURE 16. CLUTCH AND CAMSLEEVE MECHANISM

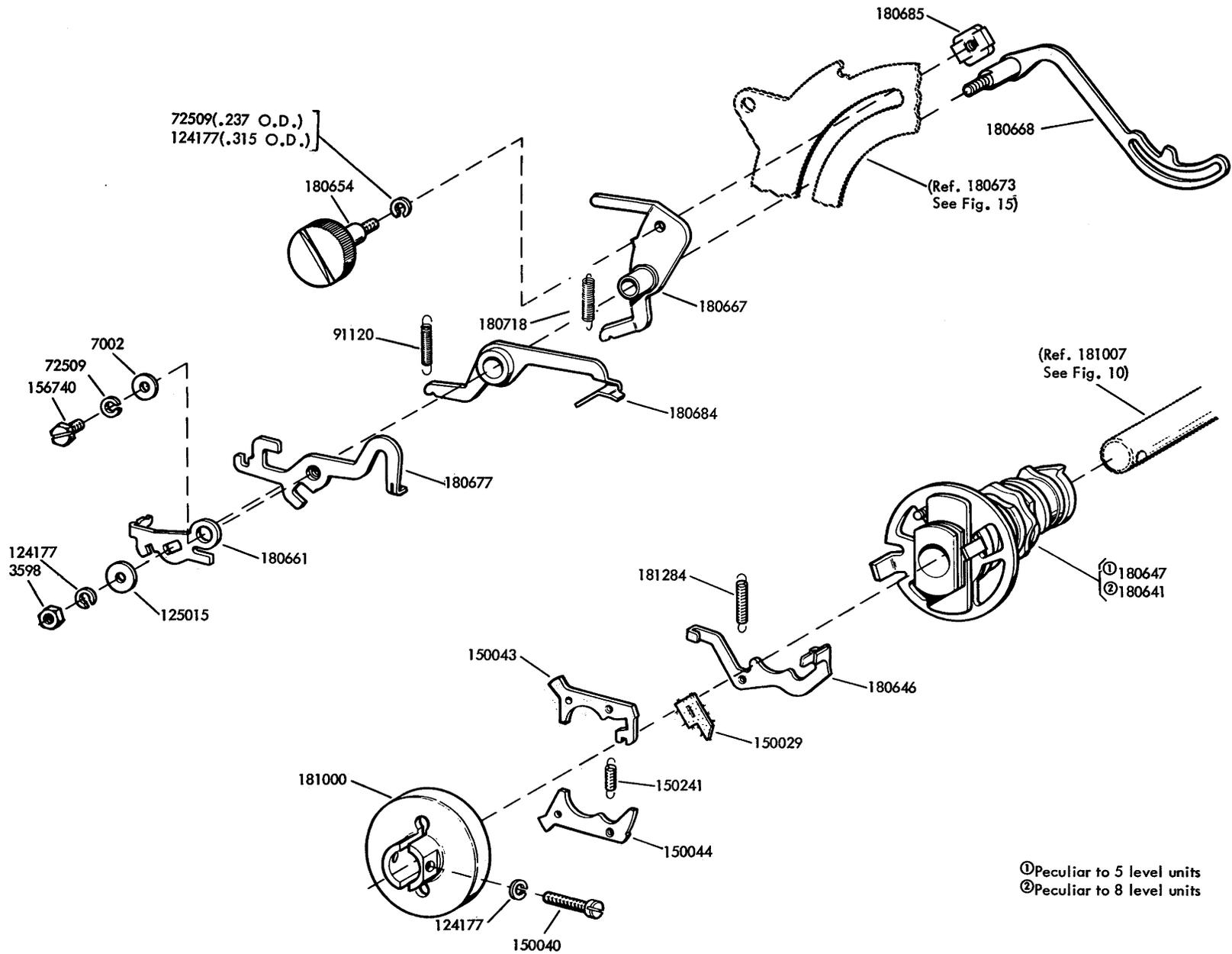


FIGURE 17. DISTRIBUTOR CLUTCH MECHANISM

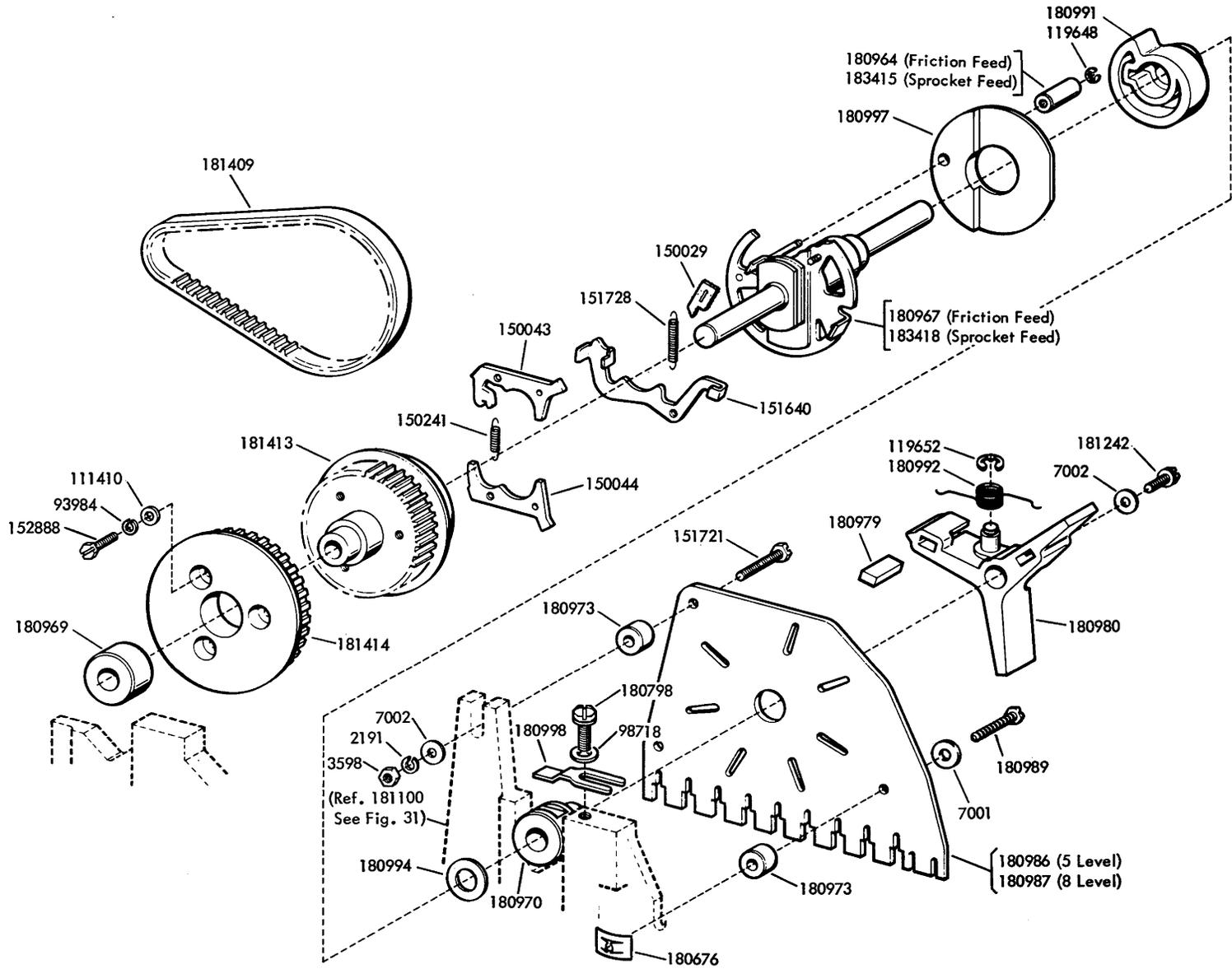
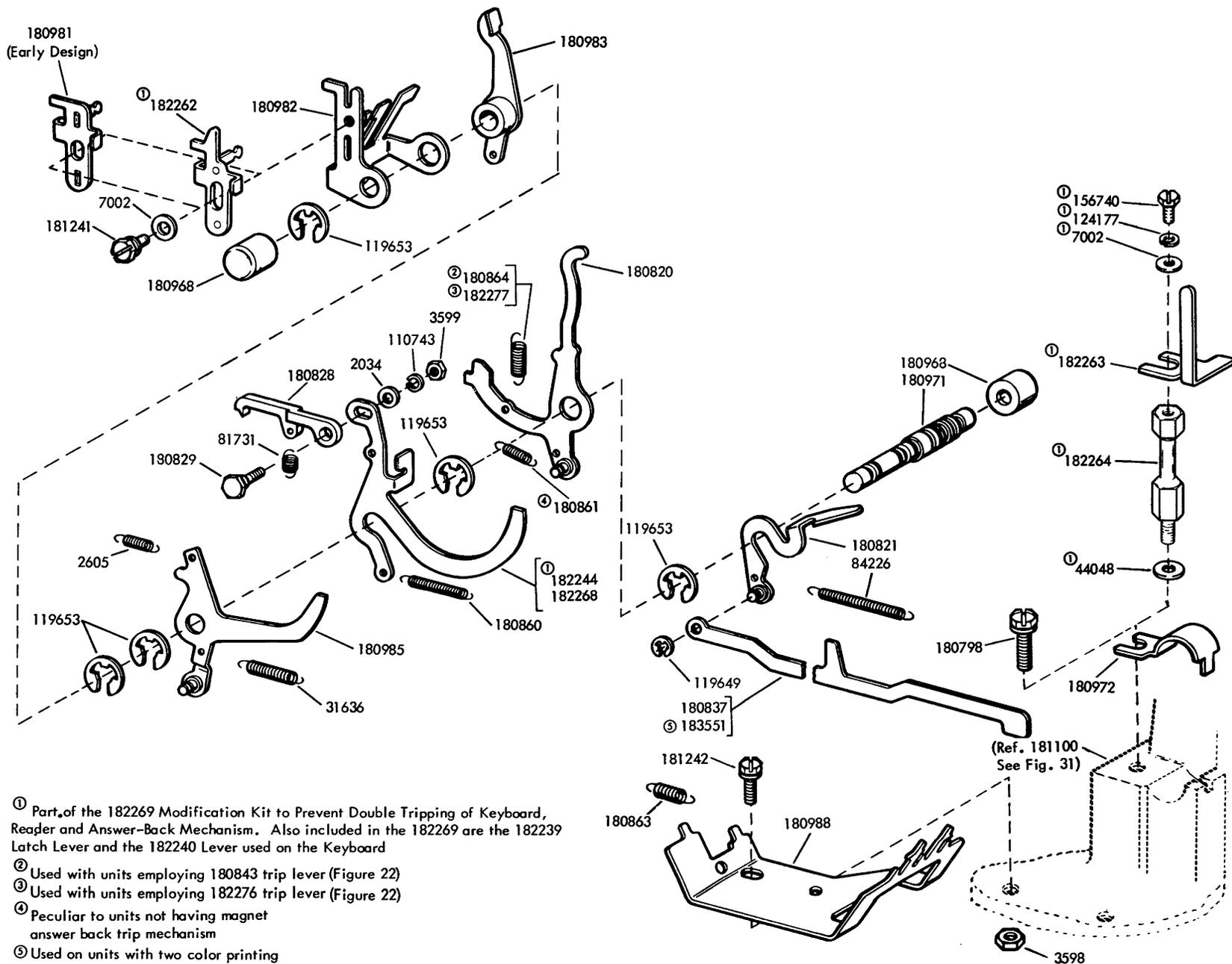


FIGURE 18. TRIP SHAFT MECHANISM



① Part of the 182269 Modification Kit to Prevent Double Tripping of Keyboard, Reader and Answer-Back Mechanism. Also included in the 182269 are the 182239 Latch Lever and the 182240 Lever used on the Keyboard

② Used with units employing 180843 trip lever (Figure 22)

③ Used with units employing 182276 trip lever (Figure 22)

④ Peculiar to units not having magnet answer back trip mechanism

⑤ Used on units with two color printing

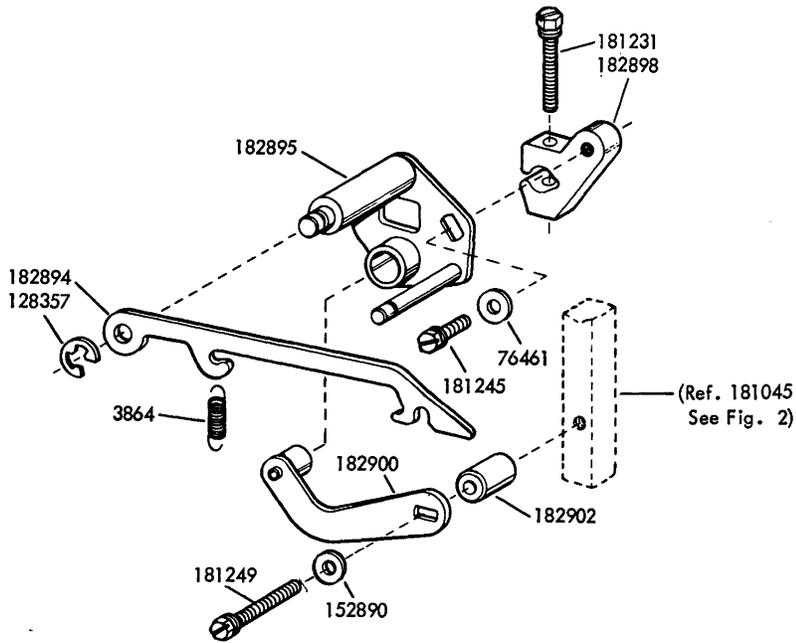


FIGURE 19. DRIVE ARM MECHANISM

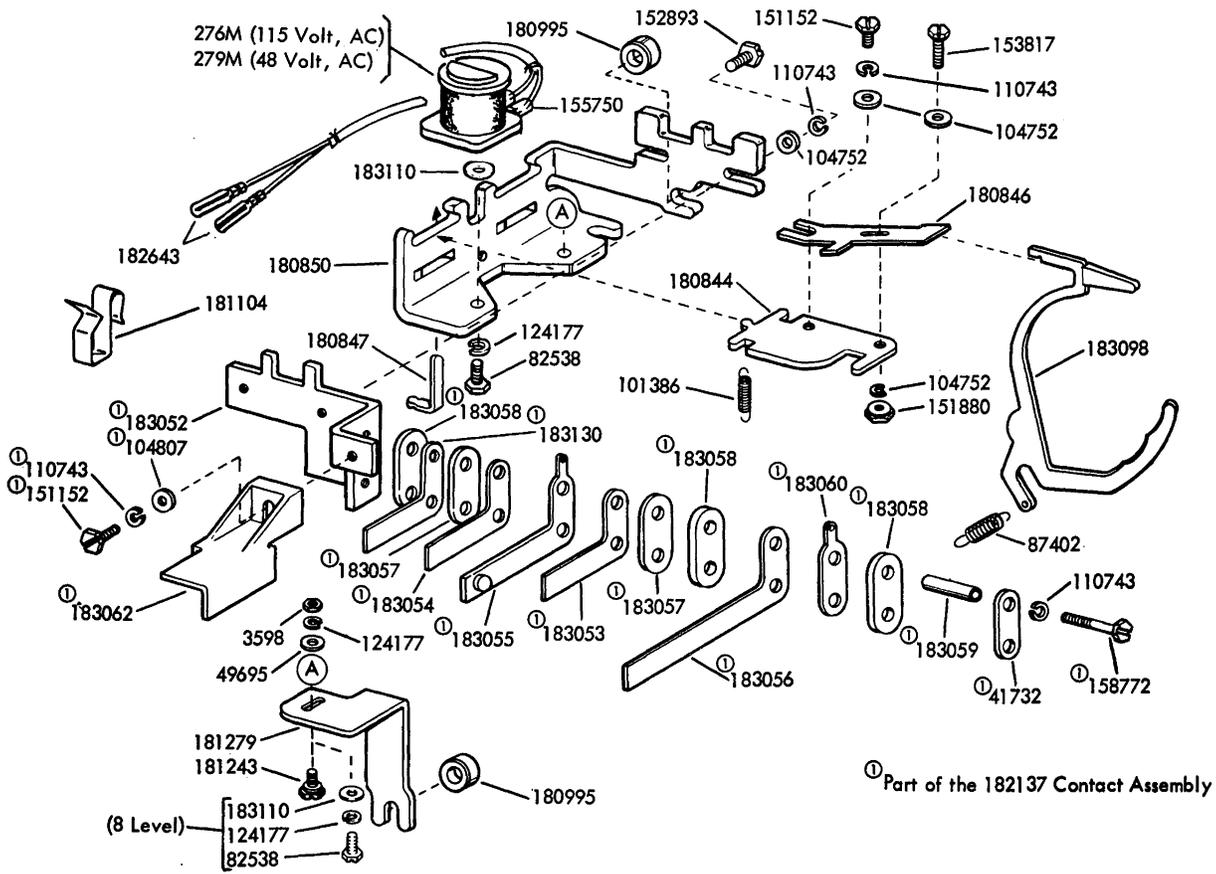


FIGURE 20. CLUTCH TRIP MECHANISM

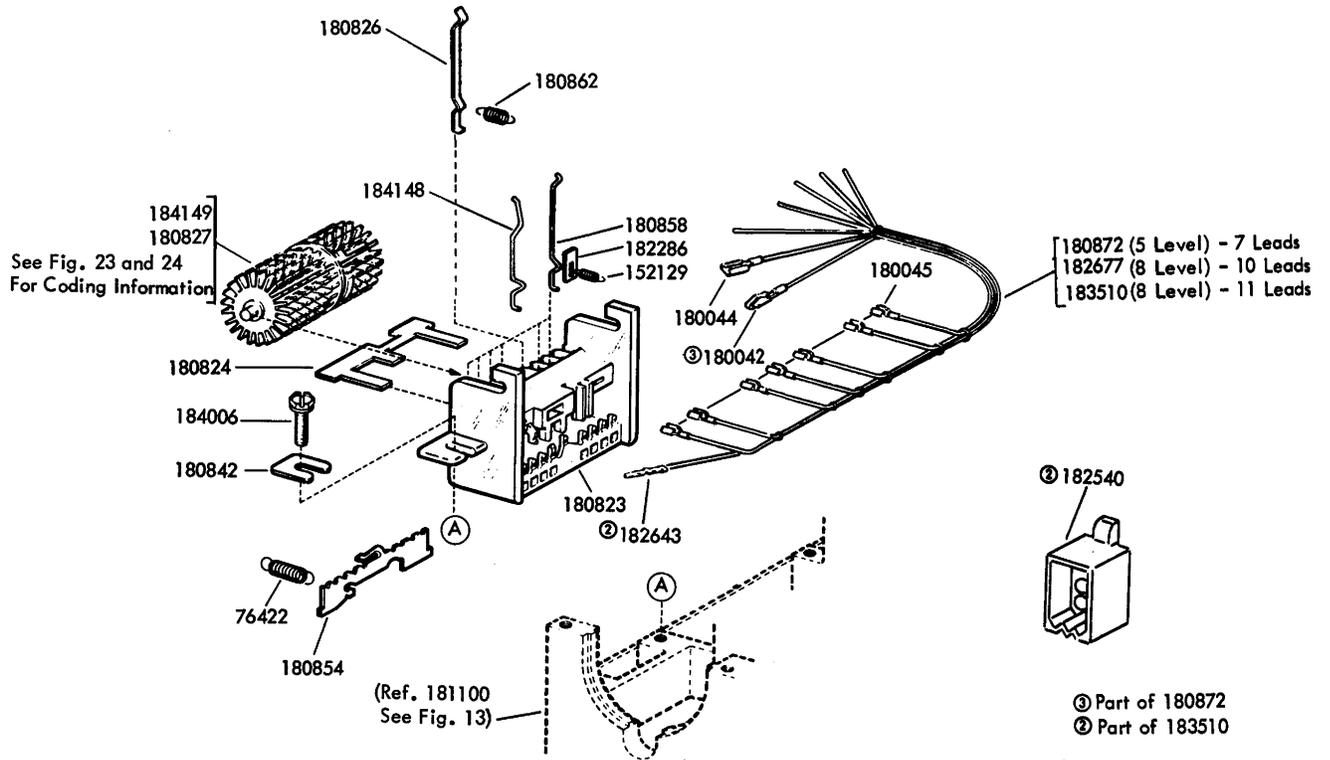


FIGURE 21. ANSWER-BACK DRUM MECHANISM

① 182045 Modification Kit to Add Magnet Answer-back Trip Mechanism

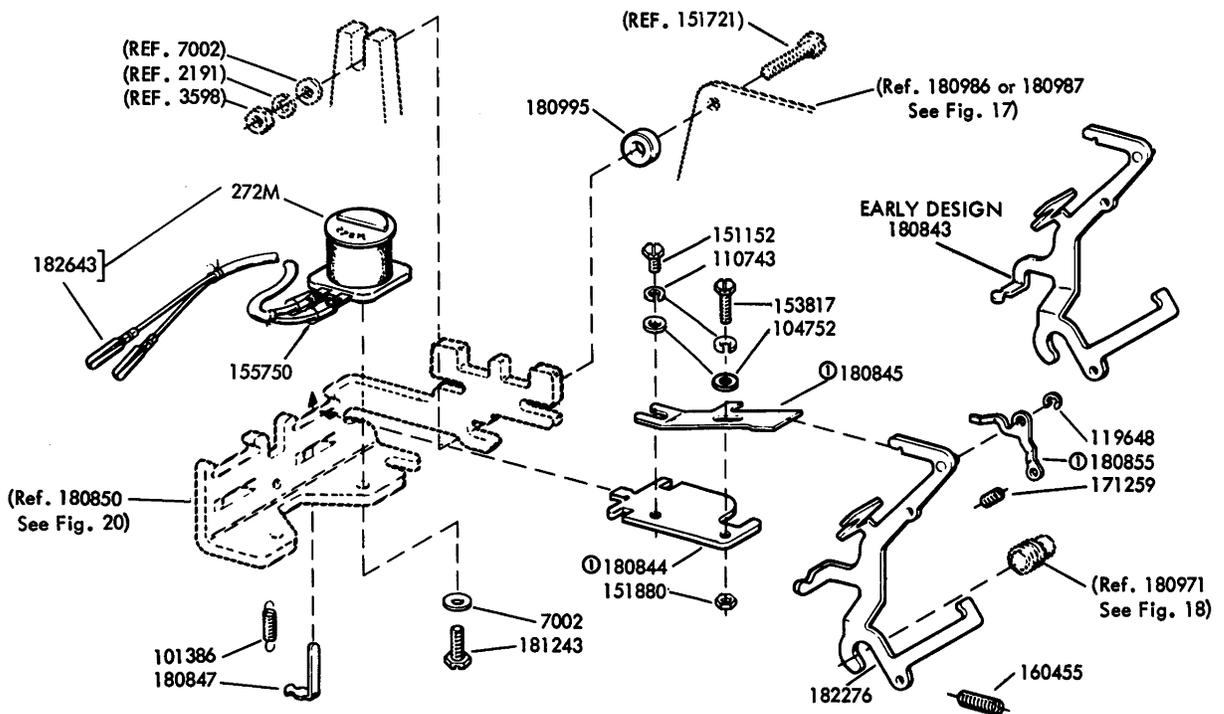
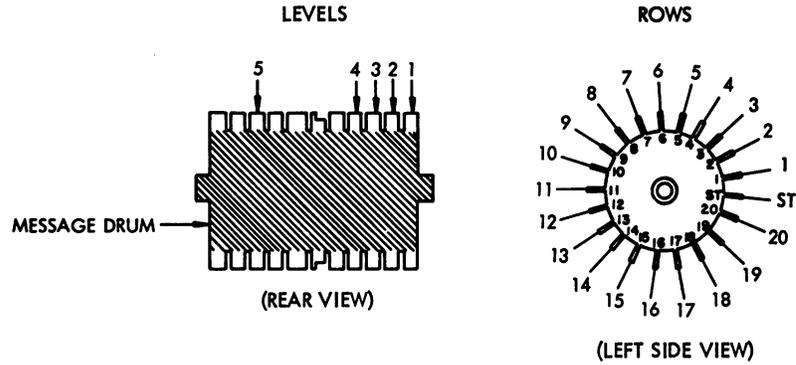


FIGURE 22. ANSWER-BACK TRIP MAGNET MECHANISM



LETTERS	FIGURES		CODE LEVELS					
			5	4	3	2	1	
A	-	-	■	■	■	■	■	■
B	5/8	?	■	■	■	■	■	■
C	WRU	:	■	■	■	■	■	■
D	\$	+	■	■	■	■	■	■
E	3	3	■	■	■	■	■	■
F	1/4	\$	■	■	■	■	■	■
G	&	&	■	■	■	■	■	■
H		#	■	■	■	■	■	■
I	8	8	■	■	■	■	■	■
J	,	BELL	■	■	■	■	■	■
K	1/2	(■	■	■	■	■	■
L	3/4)	■	■	■	■	■	■
M	.	.	■	■	■	■	■	■
N	7/8	,	■	■	■	■	■	■
O	9	9	■	■	■	■	■	■
P	0	0	■	■	■	■	■	■
Q	1	1	■	■	■	■	■	■
R	4	4	■	■	■	■	■	■
S	BELL	'	■	■	■	■	■	■
T	5	5	■	■	■	■	■	■
U	7	7	■	■	■	■	■	■
V	3/8	;	■	■	■	■	■	■
W	2	2	■	■	■	■	■	■
X	/	/	■	■	■	■	■	■
Y	6	6	■	■	■	■	■	■
Z	"	"	■	■	■	■	■	■
CARRIAGE RETURN			■	■	■	■	■	■
LINE FEED			■	■	■	■	■	■
LETTERS SHIFT			■	■	■	■	■	■
FIGURES SHIFT			■	■	■	■	■	■
SPACE			■	■	■	■	■	■
BLANK			■	■	■	■	■	■
1 CYCLE OPER. ROW 6			■	■	■	■	■	■
1 CYCLE OPER. ROW ST			■	■	■	■	■	■
2 CYCLE OPER. ROWS 6,17			■	■	■	■	■	■
2 CYCLE OPER. ROWS ST,11			■	■	■	■	■	■
3 CYCLE OPER. ROWS 6,13,20			■	■	■	■	■	■
3 CYCLE OPER. ROWS ST,7,14			■	■	■	■	■	■

■ LEAVE TINE
□ REMOVE TINE

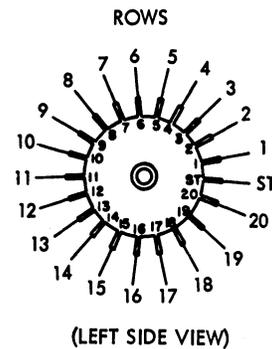
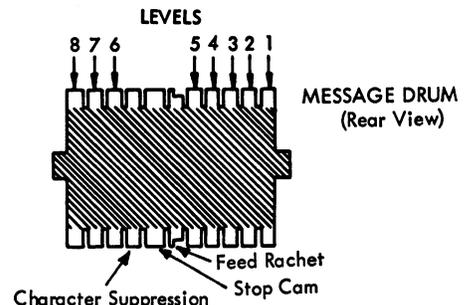
See Note: CHAR. SUPPRESSION
STOP CAM
FEED RATCHET

Note:
Two drums are now available,
180827 with CHAR. SUPPRESSION Tine Removed
184149 without CHAR. SUPPRESSION Tine Removed

FIGURE 23. CODING OF ANSWER-BACK DRUM- 5 LEVEL

	CODE LEVELS						CODE LEVELS									
	8	7	6	5	4		3	2	1	8	7	6	5	4	3	2
NULL	■	■	■	■	■	2	■	■	■	■	■	■	■	■	■	■
SOM	■	■	■	■	■	3	■	■	■	■	■	■	■	■	■	■
EOA	■	■	■	■	■	4	■	■	■	■	■	■	■	■	■	■
EOM	■	■	■	■	■	5	■	■	■	■	■	■	■	■	■	■
EOT	■	■	■	■	■	6	■	■	■	■	■	■	■	■	■	■
WRU	■	■	■	■	■	7	■	■	■	■	■	■	■	■	■	■
RU	■	■	■	■	■	8	■	■	■	■	■	■	■	■	■	■
BELL	■	■	■	■	■	9	■	■	■	■	■	■	■	■	■	■
FE ₀	■	■	■	■	■	:	■	■	■	■	■	■	■	■	■	■
HT	■	■	■	■	■	;	■	■	■	■	■	■	■	■	■	■
LF	■	■	■	■	■	<	■	■	■	■	■	■	■	■	■	■
VT	■	■	■	■	■	=	■	■	■	■	■	■	■	■	■	■
FF	■	■	■	■	■	>	■	■	■	■	■	■	■	■	■	■
CR	■	■	■	■	■	?	■	■	■	■	■	■	■	■	■	■
SO	■	■	■	■	■	@	■	■	■	■	■	■	■	■	■	■
SI	■	■	■	■	■	A	■	■	■	■	■	■	■	■	■	■
DC ₀	■	■	■	■	■	B	■	■	■	■	■	■	■	■	■	■
XON	■	■	■	■	■	C	■	■	■	■	■	■	■	■	■	■
RION	■	■	■	■	■	D	■	■	■	■	■	■	■	■	■	■
XOFF	■	■	■	■	■	E	■	■	■	■	■	■	■	■	■	■
RIOFF	■	■	■	■	■	F	■	■	■	■	■	■	■	■	■	■
ERROR	■	■	■	■	■	G	■	■	■	■	■	■	■	■	■	■
SYNCH	■	■	■	■	■	H	■	■	■	■	■	■	■	■	■	■
EOB	■	■	■	■	■	I	■	■	■	■	■	■	■	■	■	■
S ₀	■	■	■	■	■	J	■	■	■	■	■	■	■	■	■	■
S ₁	■	■	■	■	■	K	■	■	■	■	■	■	■	■	■	■
S ₂	■	■	■	■	■	L	■	■	■	■	■	■	■	■	■	■
ESC(new)	■	■	■	■	■	M	■	■	■	■	■	■	■	■	■	■
S ₄	■	■	■	■	■	N	■	■	■	■	■	■	■	■	■	■
S ₅	■	■	■	■	■	O	■	■	■	■	■	■	■	■	■	■
S ₆	■	■	■	■	■	P	■	■	■	■	■	■	■	■	■	■
S ₇	■	■	■	■	■	Q	■	■	■	■	■	■	■	■	■	■
SPACE	■	■	■	■	■	R	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	S	■	■	■	■	■	■	■	■	■	■
"	■	■	■	■	■	T	■	■	■	■	■	■	■	■	■	■
#	■	■	■	■	■	U	■	■	■	■	■	■	■	■	■	■
\$	■	■	■	■	■	V	■	■	■	■	■	■	■	■	■	■
%	■	■	■	■	■	W	■	■	■	■	■	■	■	■	■	■
&	■	■	■	■	■	X	■	■	■	■	■	■	■	■	■	■
'	■	■	■	■	■	Y	■	■	■	■	■	■	■	■	■	■
(■	■	■	■	■	Z	■	■	■	■	■	■	■	■	■	■
)	■	■	■	■	■	[■	■	■	■	■	■	■	■	■	■
*	■	■	■	■	■	\	■	■	■	■	■	■	■	■	■	■
+	■	■	■	■	■]	■	■	■	■	■	■	■	■	■	■
/	■	■	■	■	■	↑	■	■	■	■	■	■	■	■	■	■
-	■	■	■	■	■	←	■	■	■	■	■	■	■	■	■	■
.	■	■	■	■	■	ACK	■	■	■	■	■	■	■	■	■	■
/	■	■	■	■	■	AUT. MODE	■	■	■	■	■	■	■	■	■	■
0	■	■	■	■	■	ESC (old)	■	■	■	■	■	■	■	■	■	■
1	■	■	■	■	■	RUB OUT	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	1 CYCLE OPER. ROW 6	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	1 CYCLE OPER. ROW ST	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	2 CYCLE OPER. ROWS 6,17	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	2 CYCLE OPER. ROWS ST,11	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	3 CYCLE OPER. ROWS 6,13,20	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	3 CYCLE OPER. ROWS ST,7,14	■	■	■	■	■	■	■	■	■	■

See Note: CHAR. SUPPRESSION
STOP CAM
FEED RATCHET



■ LEAVE TINE
□ REMOVE TINE

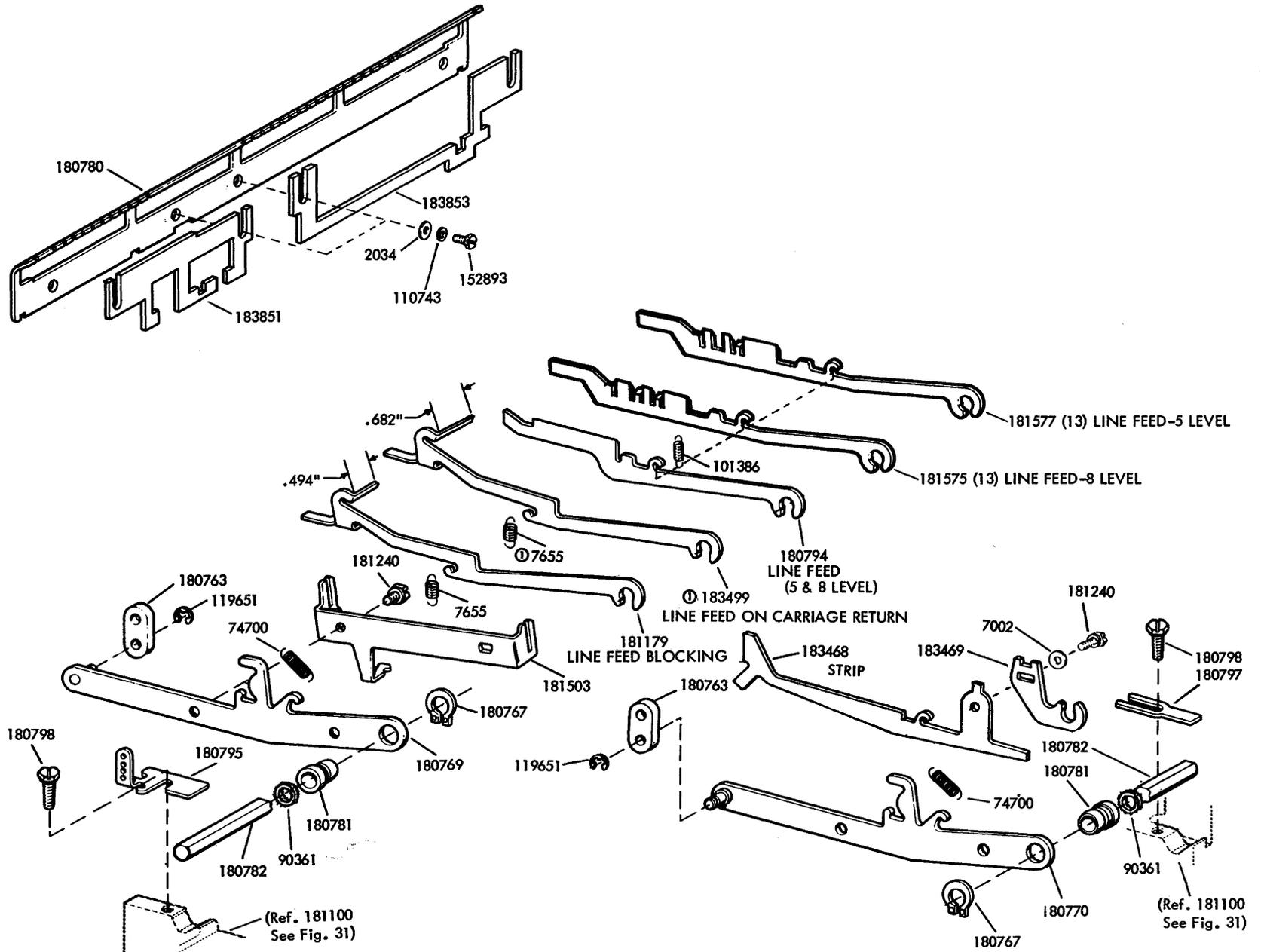
ASC II Teletypewriter Code

Note:
Two drums are now available,
180827 with CHAR. SUPPRESSION Tine Removed
184149 without CHAR. SUPPRESSION Tine Removed

Sets equipped with EVEN PARITY operation must be coded as shown. Sets not equipped for EVEN PARITY operation should have the eighth code level tine removed for all characters.

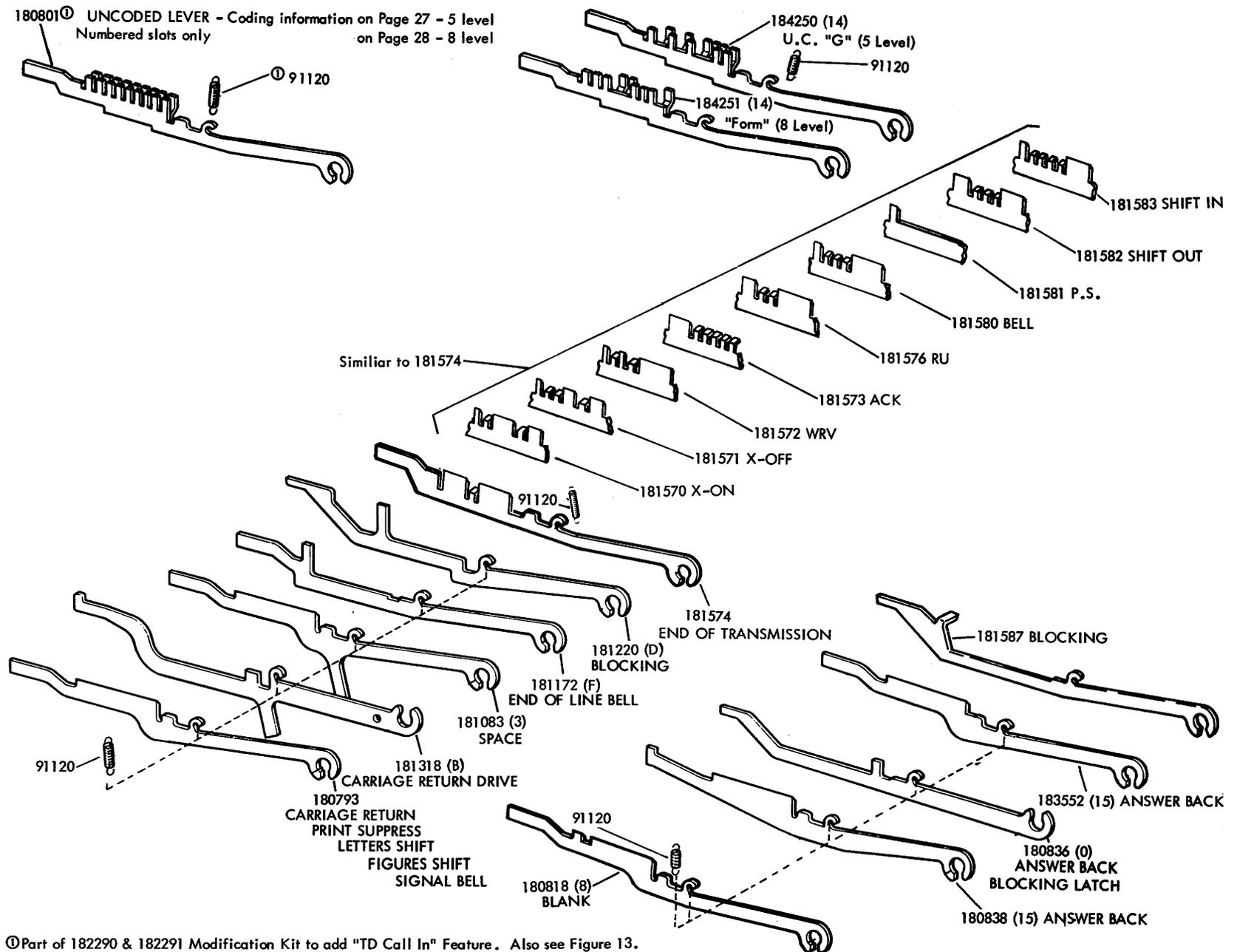
FIGURE 24. CODING OF ANSWER-BACK DRUM-8 LEVEL

FIGURE 25. LINE FEED FUNCTION LEVER MECHANISM

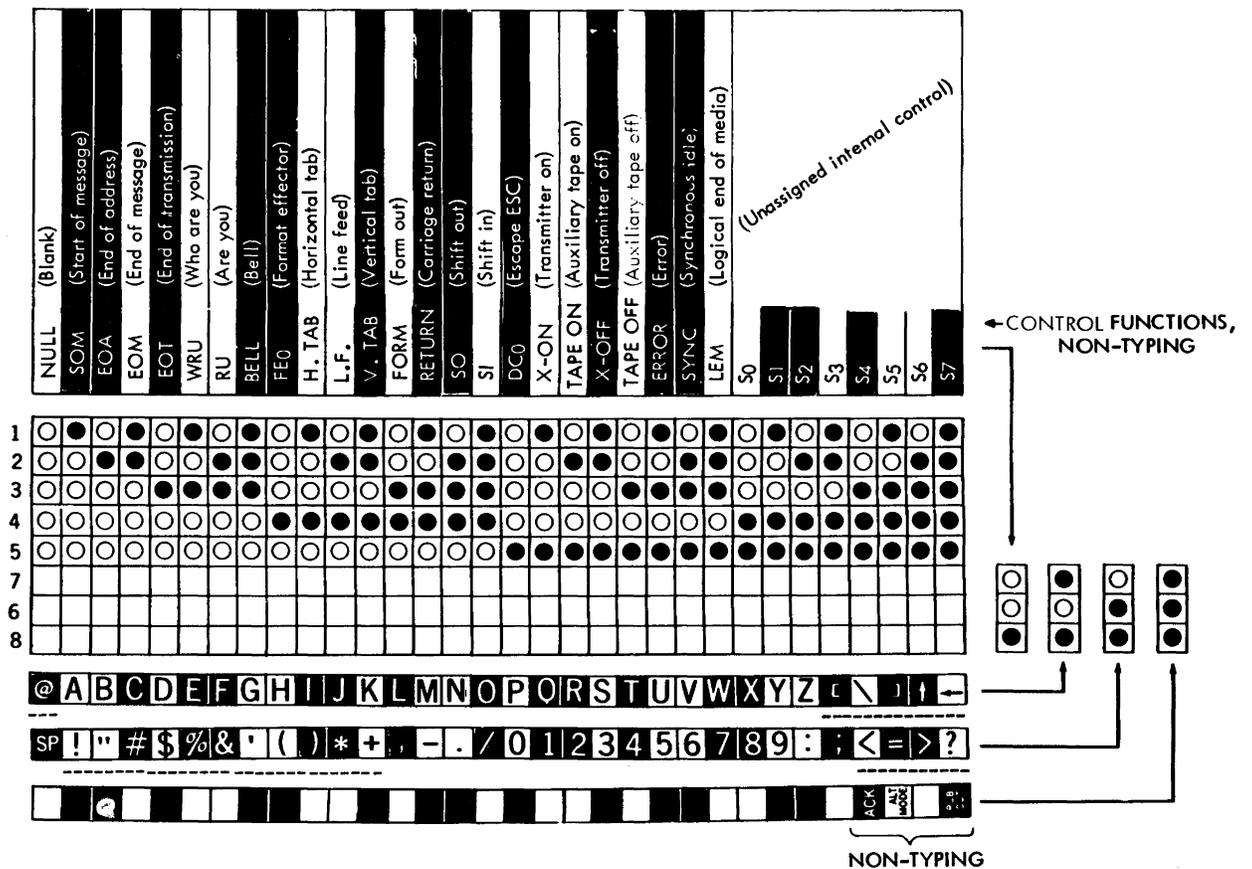


Ⓞ 184157 Modification Kit to provide LF on CR
 Numbers in parenthesis () indicate slot number.

FIGURE 26. FUNCTION LEVERS



^①Part of 182290 & 182291 Modification Kit to add "TD Call In" Feature. Also see Figure 13.
Number in parenthesis indicates slot number.



● MARK ○ SPACE

ASC II Teletypewriter Code

WHEN PARITY IS USED THE CHARACTERS AND FUNCTIONS SHOWN WITH WHITE BACKGROUND HAVE 8TH BIT SPACING (EVEN PARITY IS USED). CHARACTERS UNDERLINED WITH (DASH) OBTAINED IN CONJUNCTION WITH "SHIFT" KEY.

DATA INTERCHANGE CODE - 8 LEVEL

Coding a 180801 Uncoded 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 response to parity level (8th) is required.

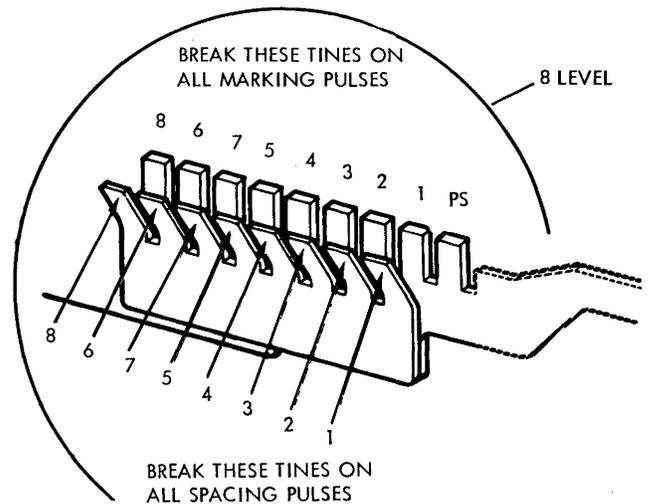
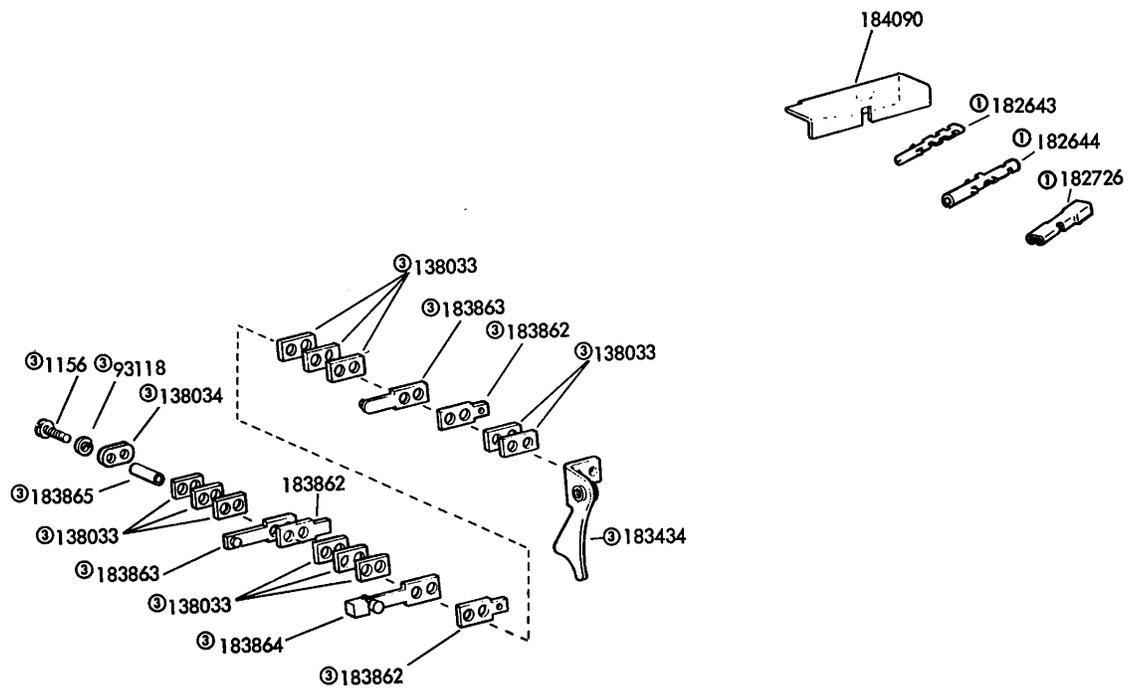
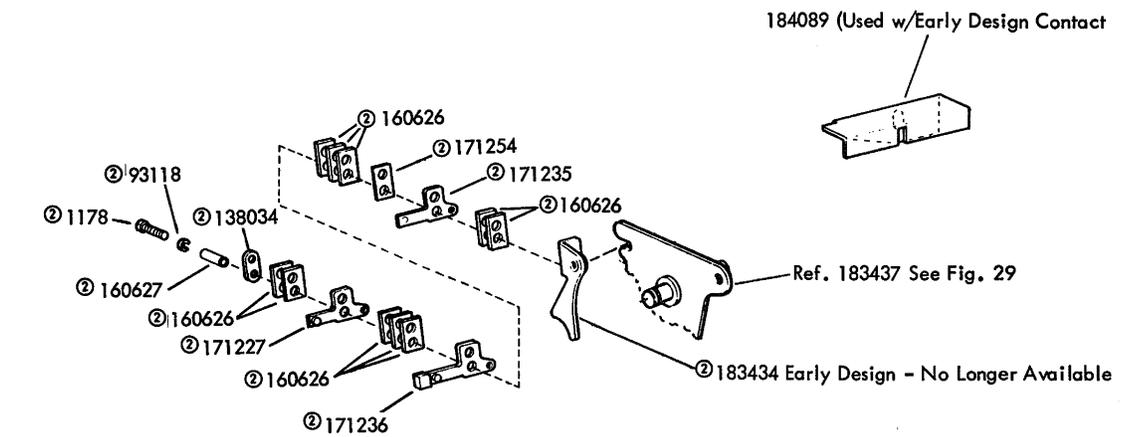


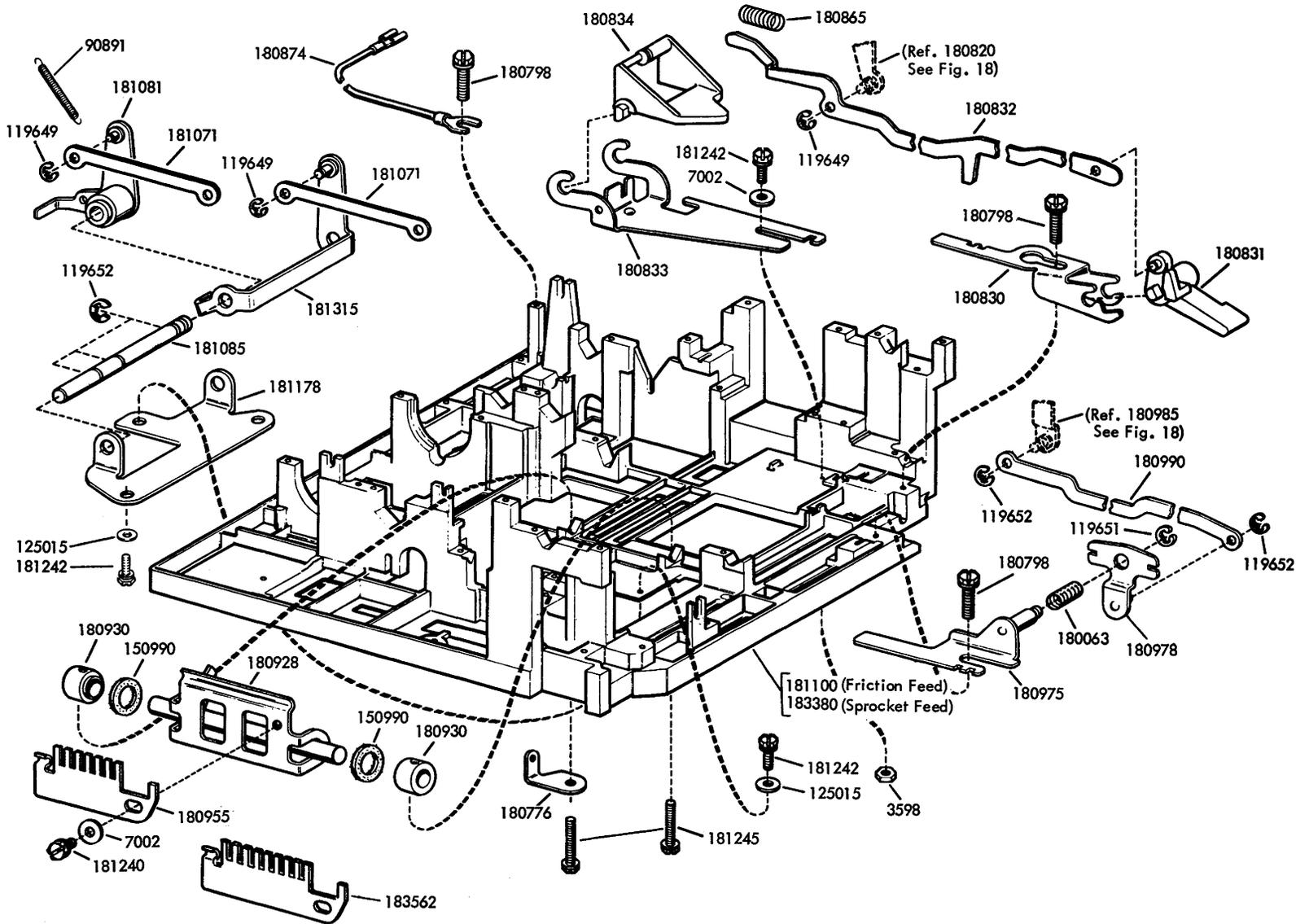
FIGURE 28. UNCODED FUNCTION LEVER - 8 LEVEL

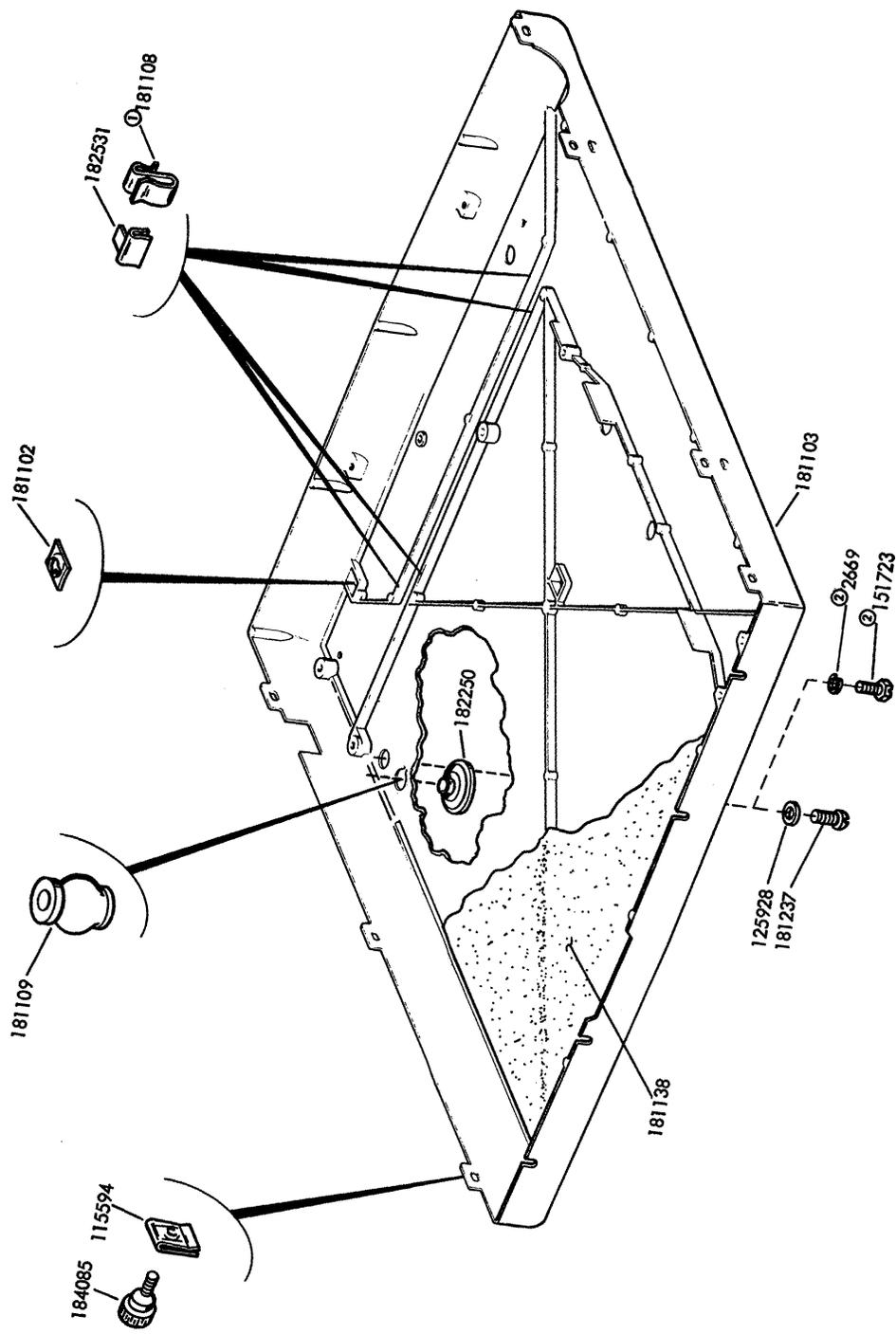


- ③ Later Design - 183444 Contact Assembly
- ② Early Design - 183444 Contact Assembly
- ① Used on both the 183451 and 183452 Cables

FIGURE 30. CONTACT ASSEMBLY - SPROCKET FEED

FIGURE 31. CASTING





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

FIGURE 32. SUB-BASE

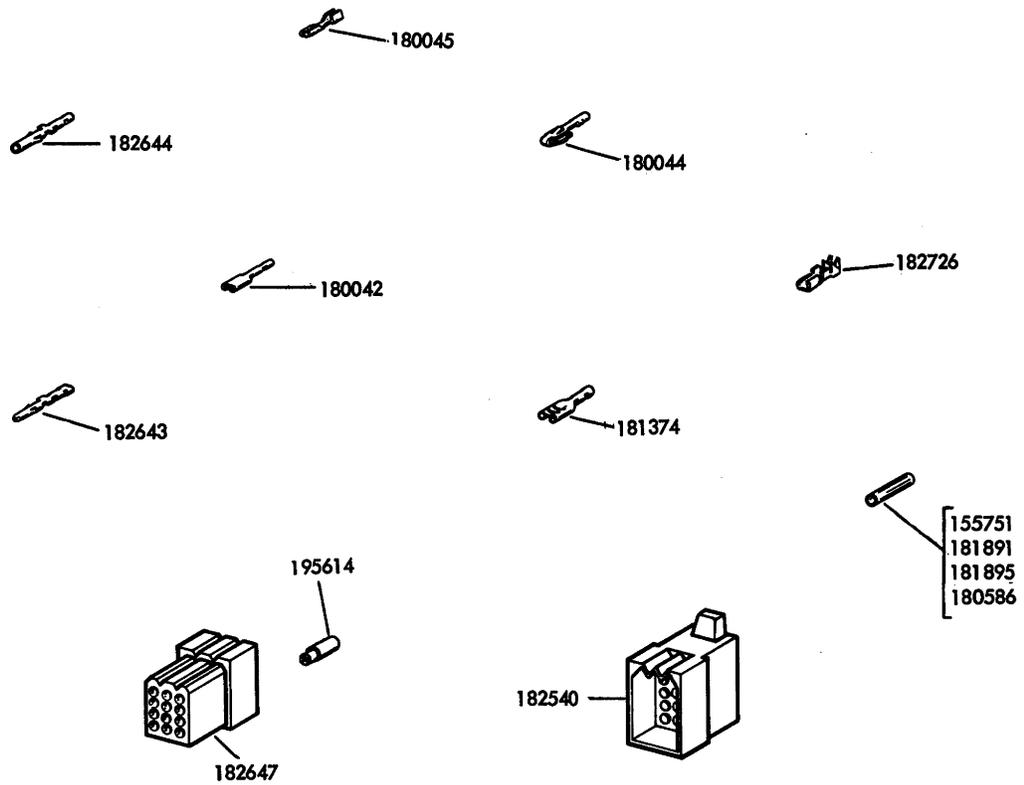


FIGURE 34. CABLE COMPONENTS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
272M	Coil, Magnet 21	93984	Washer, Lock 18	151640	Lever, Shoe Release 18
276M	Coil, Magnet 20	98718	Washer, Flat 18	151658	Screw (6-40 x 5/16 Fil) 10
279M	Coil, Magnet 20	100759	Screw (4-40 x 3/16 Flat) 10	151693	Screw (6-40 x 9/16 Fil) 28
1020	Screw (6-40 x 1/4 Hex) 16	101386	Spring 4, 16, 20, 21, 24	151721	Screw (6-40 x 3/4 Hex) 18
1156	Screw (2-56 x 9/16 Fil) 29	101796	Washer, Felt 28	151723	Screw (10-32 x 3/8 Hex) 31
1178	Screw (2-25 x 7/16 Fil) 29	104752	Washer, Flat 20, 21	151728	Spring 10, 11, 18
1210	Screw (2-56 x 5/8 Fil) 4	104807	Washer, Flat 4, 6, 20, 28	151731	Screw (4-40 x 7/8 Fil) 14
2034	Washer, Flat 5, 9, 19, 24	107116	Washer, Lock 5	151737	Screw (4-40 x 11/64 Hex) 5, 32
2167	Ball, Bearing 8	110743	Washer, Lock 4, 5, 6, 8, 9, 14, 19, 20, 21, 24, 28, 32	151880	Nut (4-40 Hex) 8, 20, 21
2191	Washer, Lock 10, 18, 32			152129	Spring 21
2415	Spring 28	111410	Washer, Flat 18	152425	Post, Spring 16
2605	Spring 19	111640	Screw (2-56 x 7/32 Fil) 3	152426	Nut, Self-Locking (6-40) 16
2669	Washer, Lock 5, 31	112626	Nut (10-32 Hex) 5	152441	Washer, Flat 4
3598	Nut (6-40 Hex) 2, 4, 5, 6, 7, 8, 9, 13, 15, 16, 17, 18, 19, 20, 30	112630	Spring 3	152888	Screw (4-40 x 7/16 Hex) 18
3599	Nut (4-40 Hex) 5, 6, 8, 14, 19	112634	Spring 5	152890	Washer, Flat 20
3606	Nut (6-40 Hex) 7	114107	Spring 9	152893	Screw (4-40 x 1/4 Hex) 5, 14, 20, 24, 28
3608	Spring 5	115594	Nut, Speed 31	153267	Washer, Felt 5
3646	Washer, Lock 2	116793	Washer, Lock 32	153537	Screw (6-40 x 9/32 Hex) 28
3650	Washer, Flat 16	119648	Ring, Retaining 7, 9, 18, 21, 28	153799	Screw (4-40 x 21/64 Hex) 5, 14
3864	Spring 20	119649	Ring, Retaining 3, 4, 6, 7, 8, 9, 11, 12, 14, 15, 16, 19, 30	153817	Screw (4-40 x 3/8 Hex) 20, 21
4703	Spring 8	119651	Ring, Retaining 2, 3, 4, 5, 6, 7, 9, 10, 24, 28, 30	155750	Sleeve, Insulating (3/32 ID x 1/2" Lg) 20, 21
4708	Spring 28			155751	Sleeve, Insulating (1/8 ID x 1" Lg) 5, 33
7001	Washer, Flat 18	119652	Ring, Retaining 4, 7, 9, 18, 30	156509	Washer, Flat 9
7002	Washer, Flat 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 16, 17, 18, 19, 21, 24, 28, 30	119653	Ring, Retaining 5, 19	156536	Screw (4-40 x 1/8 Fil) 8
7655	Spring 24	119654	Ring, Retaining 5	156558	Washer, Felt 9
8330	Washer, Flat 12, 28	121018	Nut (4-40 Hex) 8	156572	Washer, Felt 8
31636	Spring 4, 19	121100	Spring 16	156740	Screw (6-40 x 7/32 Hex) 17, 19
33765	Washer, Flat 3	124177	Washer, Lock 2, 4, 6, 7, 8, 9, 11, 13, 14, 15, 16, 17, 19, 20, 28	156768	Screw (8-32 x 9/32 Hex) 32
41732	Plate, Clamp 20	124612	Screw (8-32 x 1/2 Hex) 2	157899	Arm, Contact (NC) 14
42661	Spring 9	124681	Screw, Set (6-40) 4, 5, 11, 12, 15, 28	158186	Screw (4-40 x 7/32 Fil) 4
44048	Washer, Flat 2, 19	125011	Washer, Flat 14, 28	158772	Screw (4-40 x 5/8 Hex) 20
45027	Spring 7	125015	Washer, Flat 13, 14, 15, 16, 17, 30	160455	Spring 21
49420	Spring 14, 28	125181	Screw (2-56 x 3/8 Fil) 15	160626	Insulator (.031") 29
49695	Washer, Flat 20	125206	Screw (6-32 x 5/8 Fil) 10	160627	Bushing, Insulating 29
55063	Spring 28	125252	Spring 14	161346	Washer, Felt 9
70388	Spring 8	125802	Washer, Flat 14	162573	Retainer 11
70466	Spring 9	125928	Washer, Flat 31	162886	Screw (4-40 x 7/32 Hex) 28
71681	Spool, Ribbon 5	128357	Ring, Retaining 20, 28, 32	171227	Spring, Contact 29
72509	Washer, Lock 17	138033	Insulator (.031") 4, 29	171235	Spring, Contact 29
72563	Washer, Felt 28	138034	Plate, Clamp 4, 29	171236	Spring, Contact 29
74547	Collar 12	150026	Lever, Shoe Release 10, 11	171254	Insulator (.015") 29
74700	Spring 24, 28	150029	Wick, Felt 10, 11, 17, 18	171259	Spring 21
74701	Spring 9, 15	150040	Screw (6-40 x 5/8 Fil) 10, 11, 12, 17	172591	Spring, Contact Arm 14
74722	Washer, Flat 4			180042	Terminal, Tab Type 21, 33
76422	Spring 12, 21	150043	Shoe, Secondary Clutch 10, 11, 17, 18	180044	Terminal, Tab Type 21, 33
76461	Washer, Flat 20			180045	Terminal, Tab Type 21, 33
80945	Spring 12	150044	Shoe, Primary Clutch 10, 11, 17, 18	180063	Spring, Compression 30
81731	Spring 7, 19			180460	Typewheel 6
82538	Screw (6-40 x 5/16 Hex) 20	150241	Spring 10, 11, 17, 18	180463	Post, Bail Pivot 9
83877	Spring 16	150830	Bushing, Shoulder 11	180464	Pulley, Carriage Return Spring 9
84226	Spring 3, 19	150841	Bearing 11	180465	Shaft, Carriage 5
84575	Spring 3, 7, 9, 13	150923	Washer, Felt 15	180466	Ring, Retaining 8
86283	Spring 14	150930	Washer, Felt 10, 11, 15	180467	Bearing, Ball 8
87402	Spring 20, 28	150990	Washer, Felt 30	180468	Bearing, Ball 8
90361	Washer, Felt 24	151152	Screw (4-40 x 3/16 Hex) 6, 9, 20, 21, 28	180469	Link 8
90504	Washer, Felt 28	151346	Screw (6-40 x 3/8 Fil) 32	180470	Roller 7
90615	Spring 3	151397	Spring 16	180471	Block 8
90790	Washer, Flat 9, 14	151603	Spacer 16	180472	Post, Eccentric 7
90891	Spring 30	151610	Washer, Flat 28	180473	Shaft 8
91120	Spring 3, 17, 25	151622	Nut (6-32 Sq.) 10	180474	Stud 8
92115	Screw (8-32 Set) 32	151629	Nut (6-40 Lug) 5, 12, 28	180475	Bushing 8
93117	Washer, Lock 3	151630	Screw (6-40 x 1/4 Hex) 8	180476	Screw (6-40 Spl) 7
93118	Washer, Lock 4, 29			180477	Bracket 7
93356	Washer, Felt 28			180478	Guide, Nylon 7
				180479	Bracket 7

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
180480	Arm w/Stud 8	180578	Bracket w/Post 9	180761	Ring, Retaining 15
180482	Arm w/Shaft 6	180579	Bracket w/Hub 8	180763	Link 24
180483	Arm, Stop 7	180580	Lever w/Stud 8	180767	Ring, Retaining 12, 14, 24
180484	Arm, Stop 7	180581	Roller, Typewheel 6	180768	Ring, Retaining 10, 11
180485	Arm w/Spring 8	180584	Lever 8	180769	Link, Left 24
180486	Link 7	180585	Spring 7	180770	Link, Right 24
180487	Stud 8	180586	Tube 7, 33	180771	Arm 14
180488	Shaft 6	180591	Spring 6	180772	Shaft 14
180489	Lever w/ Pin 5	180595	Screw, Set (4-40) 7	180773	Plate 14
180491	Shaft, Rotary Block 8	180596	Typewheel (JB) 6	180774	Arm, Eccentric Follower 10, 11
180492	Arm 7	180597	Typewheel (JC) 6	180776	Bracket 30
180493	Lever, Trip 7	180598	Typewheel (MA) 6	180777	Arm, Drive 15
180495	Link, Left Ribbon 6	180641	Camsleeve 17	180778	Plate 14
180496	Arm, Stop 7	180642	Bar, Push 16	180779	Bracket 14
180497	Spring, Print Hammer 6	180643	Lever, Blocking 16	180780	Blade 24
180498	Bracket 5	180644	Lever, Blocking 16	180781	Hub 14, 24
180500	Frame 7	180645	Lever, Selector 5, 16	180782	Shaft, Pivot 24
180501	Arm w/Stud 6	180646	Lever, Shoe Release 17	180783	Castings, Function Box 14
180502	Head, Print Hammer 6	180647	Camsleeve 17	180788	Plate, Rear Rail 14
180503	Shaft w/Spacer 8	180648	Arm, Follower 12	180789	Roller 14
180505	Plate, Left Guide 6	180649	Spring 16	180791	Arm w/Stud 14
180506	Plate, Right Guide 6	180654	Knob, Range 17	180792	Pawl, Function 14
180508	Stud, Eccentric (6-40) 7	180655	Plate, Side 16	180793	Lever 25
180509	Slide (#3 Pulse) 7	180657	Bracket, Guide 16	180794	Lever, Line Feed 24
180510	Slide, Common 7	180658	Shaft, Guide 16	180795	Bracket, Spring 24
180511	Slide (#1 & #2 Pulse) 7	180661	Bracket 17	180796	Clamp 14
180512	Slide w/Plates 7	180663	Scale, Range 16	180797	Clamp 15, 24
180513	Slide (#5 Pulse) 7	180664	Scale, Range 16	180798	Screw, Self-Tapping (8-32) 2, 5, 7, 9, 10, 11, 12, 13, 14, 15, 18, 19, 24, 30, 32
180514	Slide (#4 Pulse) 7	180667	Plate w/Bushing 17	180801	Lever w/Bracket 25, 26, 27
180517	Lever, Latch 7	180668	Follower, Cam 17	180806	Camsleeve 10
180518	Plate 6	180669	Lever, Spacing Lock 16	180807	Camsleeve 10, 11
180519	Rack 6	180671	Lever, Start 16	180808	Spacer (.050") 10
180520	Arm 7	180672	Bail 16	180809	Arm 15
180521	Slide 7	180673	Plate, Side 16	180813	Pawl, Function 14
180522	Bushing 7	180675	Screw, Self-Tapping (#6) 16	180818	Lever, Function 24
180526	Bail w/Stud 8	180676	Nut, Speed (#6) 16, 18	180820	Lever, Control 19
180528	Lever w/Hub 8	180677	Arm, Trip 17	180821	Lever w/Stud 19
180534	Plate, Guide 6	180678	Plate, Spring 16	180823	Block, Contact 21
180537	Link 7	180682	Upstop 9	180824	Contact, Common 21
180538	Shaft 7	180684	Lever, Latch 17	180826	Lever, Detent 21
180539	Bail w/Stud 7	180685	Nut (6-40 Spl) 17	180827	Drum, Answer Back 21, 22, 23
180540	Bail, Print Hammer 6	180688	Core, Magnet 16	180828	Pawl, Feed 19
180541	Plate w/Posts 6	180691	Plate 16	180829	Screw, Shoulder (4-40) 19
180543	Base, Ribbon Unit 5	180692	Spring, Flat 16	180830	Bracket 30
180544	Bail, Drive 9	180704	Armature 16	180831	Lever 30
180545	Bracket 9	180710	Plate w/Post 16	180832	Link, Tie 30
180546	Post 9	180715	Coil, Magnet (6.3 Ohm) 16	180833	Bracket, Adjusting 30
180547	Stud, Eccentric (6-40) 5	180717	Spring 16	180834	Bail, Trip 30
180548	Plate 6	180718	Spring 17	180835	Pawl, Blocking (AB) 14
180549	Bracket 6	180719	Spring 16	180836	Lever, Function (Blocking) 25
180552	Post 6	180721	Wick, Felt 16	180837	Link, Blocking 19
180553	Spring 8	180727	Washer, Flat 16	180838	Lever, Function 25
180554	Bushing 6	180728	Spring 16	180842	Spacer (.050") 21
180555	Spring 6	180740	Bail 14	180843	Lever, Trip 19, 21
180556	Plate, Gauge 8	180741	Shaft, Function 15	180844	Armature 20, 21
180557	Lever w/Stud 7	180742	Roller 15	180845	Extension, Armature 21
180558	Collar 7	180743	Bearing, Right 15	180846	Extension, Reader Armature 20
180559	Shaft 7	180744	Collar 5, 15	180847	Bracket, Spring 20, 21
180562	Link, Left Ribbon 6	180745	Arm w/Stud 15	180850	Bracket, Magnet 20
180563	Stud, Eccentric 6	180746	Arm w/Bushing 15	180854	Brace 21
180564	Bracket, Lock 6	180748	Arm w/Stud 15	180855	Latch, Blocking 21
180566	Hub w/Pinion 8	180749	Arm w/Stud 15	180858	Contact, Wire 21
180568	Bracket, Guide 6	180750	Arm w/Studs 15	180860	Spring 19
180569	Spring, Compression 6	180751	Arm w/Studs 15	180861	Spring 19
180571	Plate 8	180752	Lever, Function 15	180862	Spring 21
180574	Stud, Eccentric (6-40) 8	180754	Hub 15		
180575	Bearing, Ball 8, 15	180755	Hub 15		
180576	Bearing, Ball 8				

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
180863	Spring 19	180997	Disk w/Plate 18	181085	Shaft 30
180864	Spring, Extension 19	180998	Clamp 15, 18	181086	Lever w/Hub 9
180865	Coil, Adjusting 30	180999	Bearing, Left 15	181088	Post 9
180872	Cable w/Terminals 21	181000	Drum, Clutch 10, 11, 17	181089	Arm w/Hub 9
180874	Strap, Braided (4-1/2") 30	181001	Bearing 10, 11	181091	Link w/Post Toggle 9
180920	Shaft 13	181002	Bearing 10, 11	181092	Bracket, Belt 5
180921	Bracket, Spring 13	181003	Lever, Latch 12	181093	Bracket, Extension 5
180922	Spring 13	181004	Hub 12	181094	Bracket w/Post 9
180923	Bracket w/Studs 13	181005	Link, Carriage 10	181100	Casting, Base 30
180925	Clamp 13	181006	Bushing 12	181102	Fastener, Screw 31
180926	Ring, Retaining 13	181007	Shaft, Main 10	181103	Cover, Base 31
180927	Ring, Retaining 12, 13	181008	Collar 10, 11	181104	Clip, Cable 20
180928	Bail 30	181010	Lever w/Stud 12	181108	Clip, Cable 31, 32
180930	Bearing 30	181011	Lever w/Nut 12	181109	Mount, Vibration 31
180932	Bar, Code (#8-1) 13	181012	Spacer 12	181111	Pawl, Feed 5
180933	Bar, Code (#8-2) 13	181013	Spacer (.453") 13	181113	Spring, Compression 5
180934	Bar, Code (#8-3) 13	181014	Grommet, Rubber 12	181114	Lever 5
180935	Bar, Code (#8-4) 13	181015	Gear (35 T) 10, 11	181115	Stud 5
180936	Bar, Code (#8-5) 13	181017	Plate 12	181116	Arm, Reverse 5
180937	Bar, Code (#8-6) 13	181018	Shaft 12	181117	Pawl, Retaining 5
180938	Bar, Code (#7) 13	181019	Lever, Trip 12	181118	Spring 5
180939	Bar, Code (#8) 13	181020	Lever 12	181119	Spring 5
180940	Bar, Code (#5-0) 13	181021	Spacer (.406) 12	181120	Spring, Compression 4, 5
180941	Bar, Code (#5-1W) 13	181022	Bracket, Left 12	181121	Pin 5
180942	Bar, Code (#5-2W) 13	181023	Bracket, Right 12	181122	Disk 5
180943	Bar, Code (#5-3W) 13	181028	Camsleeve 10	181123	Nut (4-40 Spl) 5
180944	Bar, Code (#5-4W) 13	181030	Bracket w/Stud 2	181124	Post 5
180945	Bar, Code (#5-5) 13	181034	Platen 2	181125	Ratchet, Left Ribbon 5
180947	Bar, Code (Print Sup) 13	181037	Bracket, Right 2	181126	Ratchet, Right Ribbon 5
180948	Bar, Code (Auto CR & EOL Bell) 13	181038	Bracket, Left 2	181129	Ribbon w/Spool 5
180949	Bracket, Rear Tie 13	181039	Knob, Platen 2	181138	Pad 31
180950	Bracket, Front Tie 13	181040	Pawl, Detent 2, 4	181151	Fan 32
180951	Bar, Code (#5-4B) 13	181041	Retainer 2, 4	181164	Shaft w/Link 3
180952	Bar, Code (#5-3B) 13	181042	Tip, Rubber 3	181165	Pawl, Feed 3
180953	Bar, Code (#5-2B) 13	181044	Roller, Pressure 3	181166	Bracket, Line Feed 3
180954	Bar, Code (#5-1B) 13	181045	Post, Support 2	181168	Bellcrank w/Studs 3
180955	Bracket 30	181048	Bracket, Stop 2	181172	Lever, Automatic Function 25
180956	Spring 4, 13, 28	181049	Arm, Right 3	181173	Stud, Feed Pawl Stop 2
180957	Bracket, Spring 13	181050	Arm, Left 3	181174	Guide 15
180958	Nut (6-40 Lug) 16	181051	Bracket, Left 3	181175	Plate, Stripper 3
180959	Bracket 16	181052	Plate 2	181176	Link, Adjusting 3
180964	Roller 18	181053	Bail, Paper Straightener 3	181178	Bracket 30
180967	Sleeve 18	181054	Shaft, Pressure 3	181179	Lever, Blocking 24
180968	Buffer 19	181055	Bar 2	181191	Spring, Compression 8
180969	Bearing 18	181056	Plate, Pressure Roller Guide 3	181193	Cylinder 2
180970	Bearing 18	181057	Bracket, Right 3	181194	Washer, Flat 8
180971	Shaft, Trip 19	181058	Plate, Paper Guide 3	181195	Washer, Cup 8
180972	Clamp, Buffer 19	181059	Stud, Handle Stop 2	181196	Ring, Retaining 8
180973	Disk, Spacer 18	181062	Eccentric, Toggle Link 9	181197	Plate, Adjusting 2
180975	Bracket w/Stud 30	181065	Pawl, Check 9	181198	Bumper 8
180978	Lever w/Stud 30	181066	Shaft, Spacing Drum 5	181199	Piston 8
180979	Brush, Carbon 18	181067	Pawl, Feed 9	181203	Washer, Flat 32
180980	Holder, Brush 18	181068	Lever w/Post 9	181204	Washer, Flat 32
180981	Arm, Stop 19	181069	Drum, Spacing 5	181220	Lever, Blocking 25
180982	Bail, Trip 19	181070	Lever, Suppression 9	181221	Pawl, Function (Blocking) 14
180983	Lever, Latch 19	181071	Link 30	181222	Pawl, Function (Figs) 14
180985	Lever, Follower 19	181072	Bracket w/Post 5	181230	Plate 9
180986	Disk (5 Level) 18	181074	Pulley 5	181231	Screw, Self-Tapping (8-32) 15,20
180987	Disk (8 Level) 18	181075	Belt, Toothed (127T) 5	181237	Screw, Self-Tapping (1/4 - 14) 31
180988	Bracket, Spring 19	181076	Roller 9	181240	Screw, Self-Tapping (6-40) 2, 3, 4, 9, 14, 16, 24, 28, 30
180989	Screw (#6 Spl) 18	181077	Ratchet, Spacing 5	181241	Screw, Self-Tapping (6-40) 7, 8, 9, 11, 12, 16, 19, 28
180990	Link, Keyboard 30	181078	Stud 9	181242	Screw, Self-Tapping (6-40) 2, 3, 4, 6, 7, 10, 11, 15, 16, 18, 19, 30
180991	Cam, Blocking 18	181079	Washer, Flat 5	181243	Screw, Self-Tapping (6-40) 5, 15, 20, 21, 28
180992	Spring, Torsion 18	181081	Arm w/Hub and Post 30		
180994	Spacer (.015") 18	181082	Eccentric, Toggle Link 9		
180995	Spacer, Disk 20, 21	181083	Lever 25		
		181084	Bracket 5		

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
181245	Screw, Self-Tapping (6-40) 6, 20, 30	181575	Lever 24	182311	Bar, Code (#8-2) 13
181246	Screw, Self-Tapping (6-40) 10, 11, 12, 14	181576	Lever 25	182312	Bar, Code (#8-3) 13
181249	Bolt (5/16 - 18 Spl) 20	181577	Lever 24	182313	Bar, Code (#8-4) 13
181250	Screw, Self-Tapping (#2) 14	181580	Lever 25	182314	Bar, Code (#8-5) 13
181262	Shaft 13	181581	Lever 25	182315	Bar, Code (#8-6) 13
181278	Clamp 14	181582	Lever 25	182316	Bar, Code (#7) 13
181279	Bracket 20	181583	Lever 25	182317	Bar, Code (#8) 13
181284	Spring 17	181587	Lever, Blocking 25	182531	Clip, Speed 31, 32
181286	Bushing 14, 21	181850	Plate w/Stud 32	182540	Connector, Plug Type (15 Pt) 21, 33
181302	Typewheel (JD) 6	181851	Gear (17 T) 32	182643	Terminal, Plug Type 20, 21, 28, 33
181312	Latch, Carriage Return 5	181853	Pulley w/66T Gear, 16T 32	182644	Terminal, Receptacle Type 28, 33
181314	Link w/Post 9	181854	Pulley w/60T Gear, 16T 32	182647	Connector, Plug Type (12 Pt) 33
181315	Bail w/Post 30	181855	Pulley w/40T Gear, 16T 32	182677	Cable w/Terminals 21
181316	Shaft 9	181861	Motor, AC Synchronous (25 MHP, 115 V, 60 Cycle) 32	182726	Terminal, Receptacle Type 29, 33
181317	Hub, Carriage Return Lever 9	181866	Bracket 32	182894	Link 20
181318	Lever, Actuating 13, 25	181867	Insulator 32	182895	Plate w/Bushing 20
181319	Lever, Carriage Return 9	181868	Clip, Speed 32	182898	Arm 20
181320	Lever, Unlatch 9	181869	Relay, Motor Start 32	182900	Link w/Post 20
181322	Pawl, Function (CR) 14	181870	Motor, AC Synchronous (33 MHP, 115 V, 60 Cycle) 32	182902	Spacer (.469") 20
181323	Spring 7	181877	Relay w/Bracket 32	183052	Bracket, Contact 20
181324	Pawl, Function (Stop) 14	181891	Sleeve, Insulating (3/16 ID x 2-1/2" Lg) 33	183053	Stiffener, Front 20
181325	Pawl, Function (Auto CR) 14	181892	Sleeve, Insulating (9/64 ID x 1" Lg) 32	183054	Stiffener, Rear 20
181326	Arm 5	181895	Sleeve, Insulating (9/64 ID x 3/8" Lg) 33	183055	Spring, Contact 20
181327	Latch 5	182037	Switch Assembly, Contact 14	183056	Spring, Contact 20
181328	Lever 9	182045	Modification Kit 21	183057	Insulator (.031") 20
181374	Terminal, Tab Type 33	182047	Clutch Assembly 10, 11	183058	Insulator (.062") 20
181383	Clamp, Motor 32	182137	Contact Assembly 20	183059	Bushing, Insulating 20
181384	Capacitor (88 - 108 MFD) 32	182181	Fan 32	183060	Terminal, Lug 20
181386	Insulator 32	182183	Deflector, Air 32	183062	Cover, Contact 20
181387	Capacitor (5 MFD) 32	182237	Pawl, Function 14	183098	Lever, Trip 20
181394	Capacitor (47 - 56 MFD) 32	182239	Lever, Latch 19	183110	Shim (.004") 20
181405	Plate 12	182240	Lever 19	183130	Insulator 20
181406	Roller 12	182241	Motor, Synchronous (60 Cycle) 32	183301	Plate, Paper Guide 4
181409	Belt, Toothed (47 T) 18	182244	Lever, Cam Follower 19	183303	Knob, Disengaging 4
181411	Pinion (18 T) 32	182250	Foot, Rubber 31	183304	Knob, Sprocket 4
181413	Drum, Clutch 18	182262	Arm, Stop 19	183308	Plate, Right 4
181414	Pulley, Toothed (34 T) 18	182263	Bracket 19	183309	Plate, Left 4
181416	Plate, Motor Gear 32	182264	Stud 19	183310	Platen 4
181417	Pulley w/68T Gear, 13T 32	182267	Motor, Synchronous (50 Cycle) 32	183313	Bar 4
181419	Pulley w/62T Gear, 13T 32	182268	Lever, Cam Follower 19	183314	Guide, Right Paper 4
181420	Pulley w/54T Gear, 17T 32	182269	Modification Kit 19	183315	Guide, Left Paper 4
181424	Nut (6-40 Sq) 10, 11	182272	Resistor (10 Ohm) 32	183316	Bracket 4
181425	Plate 10	182276	Lever, Answer Back Trip 19, 21	183317	Bracket, Right 4
181426	Plate, Spacer 10	182277	Spring 19	183318	Bracket, Left 4
181427	Plate, Nut 10	182280	Typewheel (MB) 6	183319	Detent (21 T) 4
181440	Bracket, Switch 15	182288	Typewheel (JE) 6	183320	Pulley, Toothed (21 T) 4
181441	Switch 15	182289	Typewheel (JF) 6	183321	Sprocket, Feed 4
181449	Plate, Contact 14	182290	Modification Kit 14, 25	183322	Pulley, Toothed (21 T) 4
181450	Block, Contact 14	182291	Modification Kit 14, 25	183323	Bracket, Right 2
181460	Plate w/Post 14	182293	Typewheel (MC) 6	183324	Arm, Reverse 5
181461	Gong 14	182296	Typewheel (JJ) 6	183326	Guide, Bracket 6
181464	Clapper 14	182300	Bar, Code (#5-0) 13	183330	Guide 5
181500	Link, Drive 3	182301	Bar, Code (#5-1W) 13	183335	Guide, Left 4
181501	Upstop, Line Feed Link 3	182302	Bar, Code (#5-2W) 13	183336	Guide, Right 4
181503	Bracket, Guide 24	182303	Bar, Code (#5-3W) 13	183338	Knob w/Pin 4
181521	Spring, Platen 3	182304	Bar, Code (#5-4W) 13	183339	Plunger Assembly 4
181522	Guide, Paper 3	182305	Bar, Code (#5-5) 13	183341	Wheel, Idler 4
181523	Spring 2, 4	182306	Bar, Code (#5-1B) 13	183346	Ring, Retaining 4
181524	Nut, Shoulder (2-56 Hex) 3	182307	Bar, Code (#5-2B) 13	183349	Washer, Felt 4
181525	Guide, Paper 3	182308	Bar, Code (#5-3B) 13	183351	Stud, Idler 4
181570	Lever 25	182309	Bar, Code (#5-4B) 13	183352	Guide, Paper 4
181571	Lever 25	182310	Bar, Code (#8-1) 13	183355	Screw, Set (6-32) 4
181572	Lever 25			183356	Washer, Supporting 4
181573	Lever 25			183357	Spring, Compression 4
181574	Lever 25			183358	Plate 4

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
183360	Arm 15	183428	Shaft 28	183562	Bracket 30
183361	Disk 11	183429	Bail 28	183587	Typewheel (JG) 6
183364	Pulley w/20T Gear, 30T 28	183430	Arm 28	183588	Typewheel (MD) 6
183367	Pulley w/28T Gear, 21T 28	183431	Bail, Clutch Latch 28	183599	Typewheel (ME) 6
183369	Pulley w/35T Gear, 21T 28	183432	Bail, Reset 28	183851	Retainer, Left 24
183371	Bearing, Sleeve 11	183433	Bracket, Side 28	183853	Retainer, Right 24
183372	Lever, Shoe Release (Multiple Stop) 11	183434	Bracket, Contact Switch 29	183861	Plate, Stop 4
183373	Disk (6 Stop) 11	183435	Bail, Contact Switch 28	183862	Terminal 4, 29
183374	Disk (6 Stop) 11	183436	Bracket 28	183863	Spring, Contact 4, 29
183376	Collar 11	183437	Bracket 28	183864	Spring, Contact 4, 29
183377	Collar 28	183438	Stud 4	183865	Bushing, Insulating 4, 29
183378	Belt, 41 T Toothed 28	183442	Lever w/Hub 4	183962	Typewheel (JH) 6
183379	Belt, 50 T Toothed 28	183443	Bracket 4	183963	Typewheel (JM) 6
183380	Casting, Frame 30	183444	Contact Assembly 29	183964	Typewheel (JN) 6
183381	Washer, Flat 11	183445	Contact Assembly 4	183992	Typewheel (MF) 6
183382	Shaft, Main 11	183448	Pointer 28	183993	Cam w/Disk 10, 11
183383	Pulley, 15 T Toothed 11	183449	Plate, Index 28	183994	Link 8, 9, 10, 11
183384	Disk 28	183450	Screw (4-40 x 7/32 Flat) 11	183995	Lever 8
183385	Arm, Stop 28	183451	Cable w/Terminals 29	183996	Link, Toggle 9
183387	Pawl, Function 14	183452	Cable w/Terminals 29	183998	Clutch Assembly 10, 11
183388	Pawl, Function (M) 14	183454	Retainer, Spring 4	183999	Spacer (.050) 10, 11
183389	Arm 11	183457	Plate 28	184006	Screw, Self-Tapping (8-32) 9, 21
183390	Arm w/Stud 15	183458	Plate, Stop 28	184085	Screw, Thumb (8-32) 31
183391	Pulley w/32T Gear, 16T 28	183462	Screw (8-32 x 5/16 Hex) 2	184089	Shield 29
183398	Gear (44T) 28	183463	Cylinder 2	184090	Shield 29
183405	Bail 28	183464	Post, Spring 28	184096	Bracket 9
183406	Bracket, Stop 28	183465	Spacer 28	184148	Contact, Wire 21
183407	Arm 28	183466	Bracket 28	184149	Drum, Answer-Back 21, 22, 23
183408	Arm 11	183467	Insulator 28	184157	Modification Kit 24
183409	Arm, Latch 28	183468	Lever, Strip 24	184158	Pulley w/58T Gear, 16T 32
183411	Plate, Cam 28	183469	Plate 24	184250	Lever w/Bracket (5 Level) 25
183415	Roller 18	183474	Modification Kit 5, 6	184251	Lever w/Bracket (8 Level) 25
183418	Sleeve w/Shaft 18	183492	Clutch Assembly 11	184684	Typewheel (JK) 6
183422	Roller 28	183499	Lever, Blocking 24	184685	Typewheel (MG) 6
183423	Bracket, Spring 28	183503	Housing, Bearing 8	184686	Typewheel (MH) 6
183425	Clamp 14, 15	183504	Retainer, Bearing 8	184687	Typewheel (JL) 6
183426	Clamp 14	183510	Cable Assembly 21	184688	Typewheel (MJ) 6
183427	Bail, LF 28	183551	Link, Blocking 19	194956	Spring 11
		183552	Lever 25	195614	Pin 33
				198670	Screw, Self-Tapping (6-40) 23