

33 TYPING UNIT (UP)

PARTS

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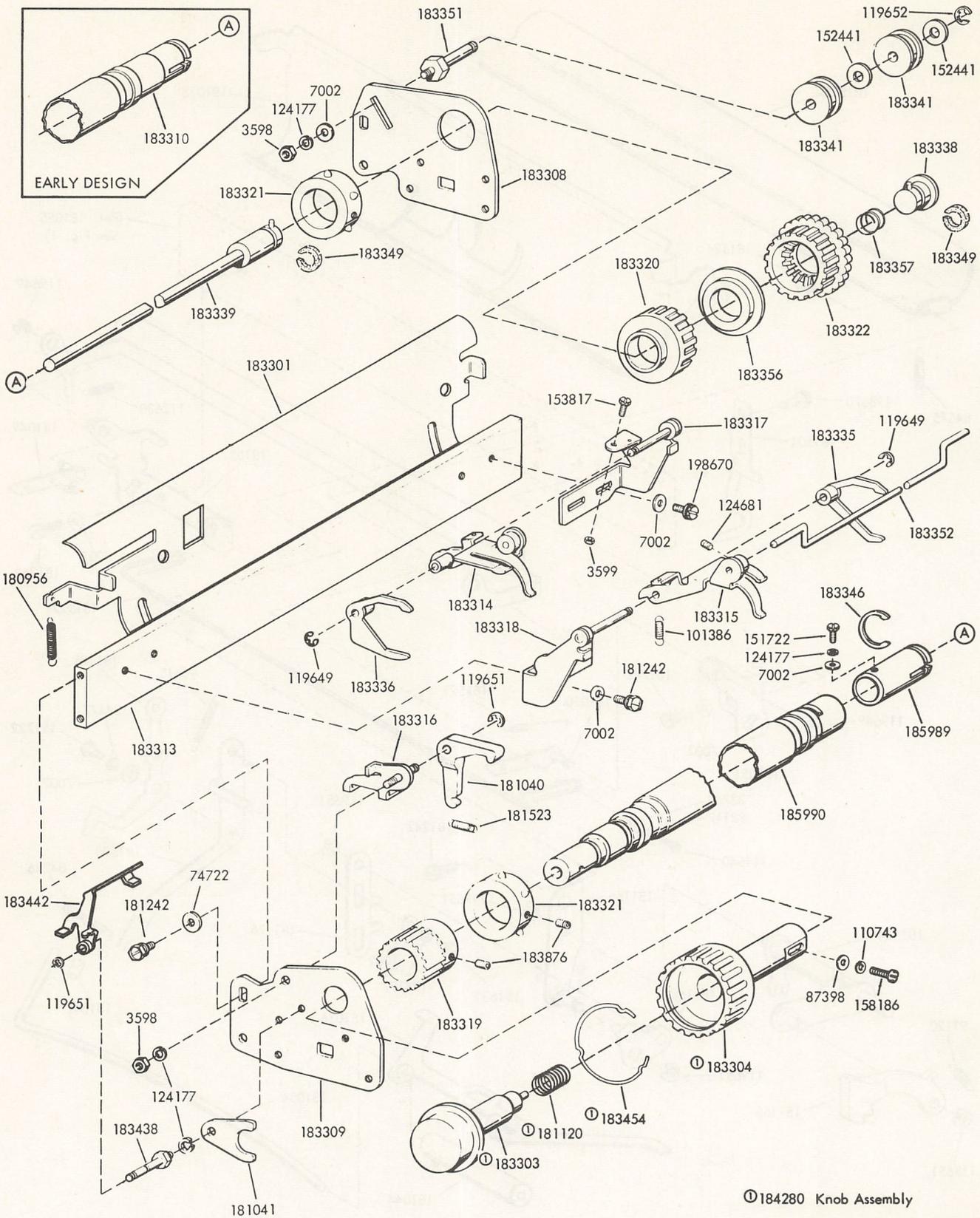


FIGURE 3. PLATEN MECHANISM - SPROCKET FEED

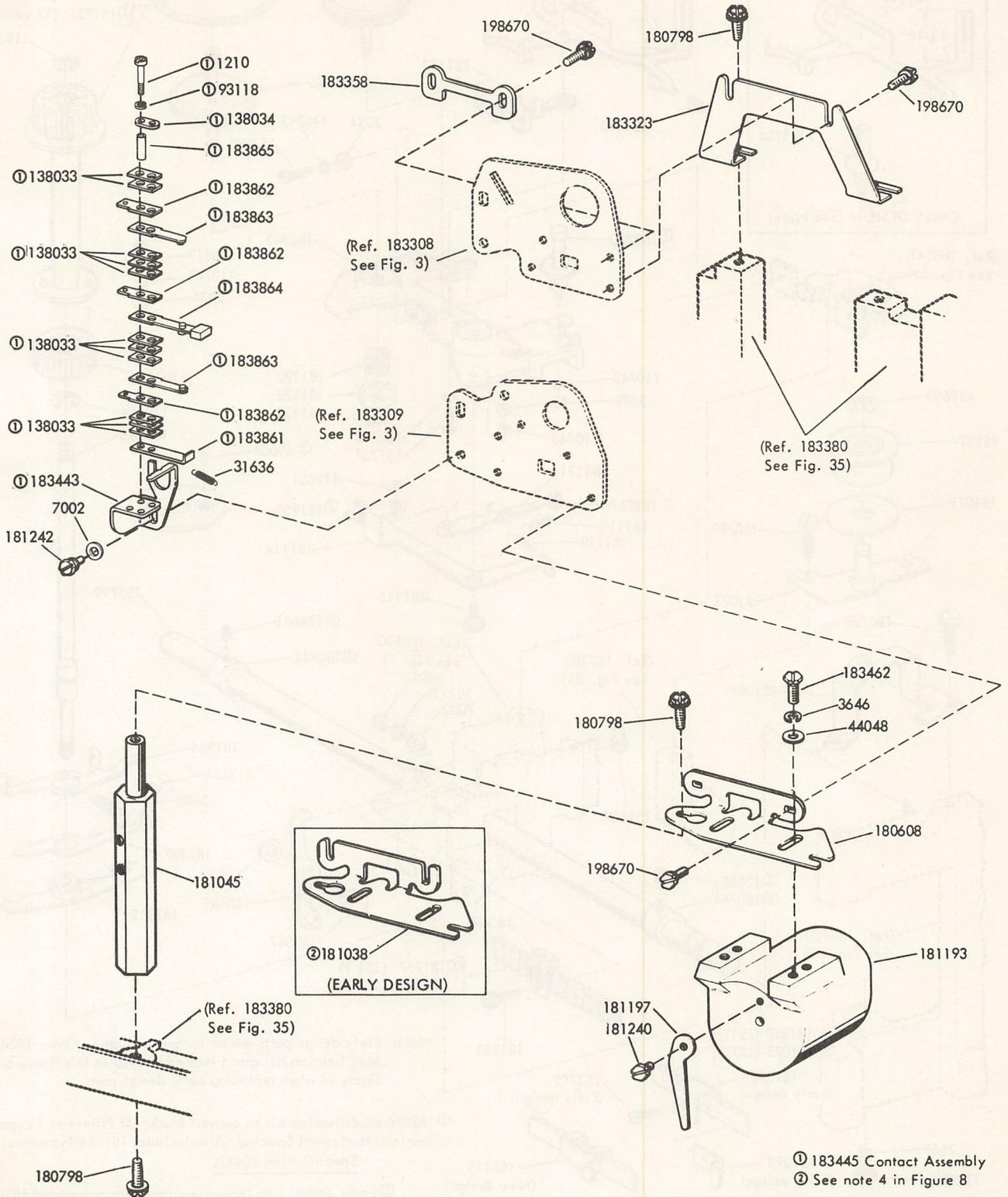


FIGURE 4. PLATEN MECHANISM - SPROCKET FEED (CONTINUED)

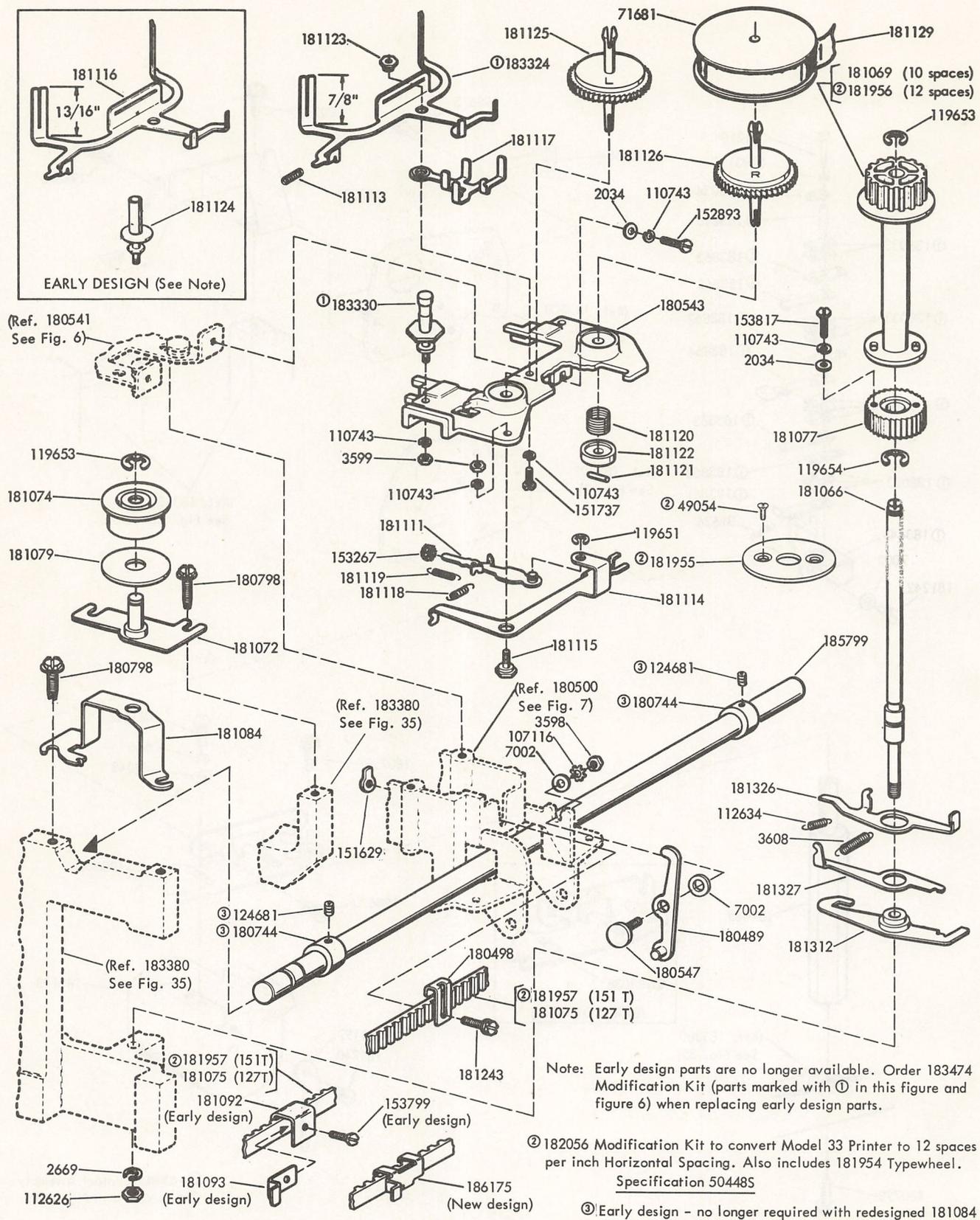


FIGURE 5. RIBBON FEED MECHANISM

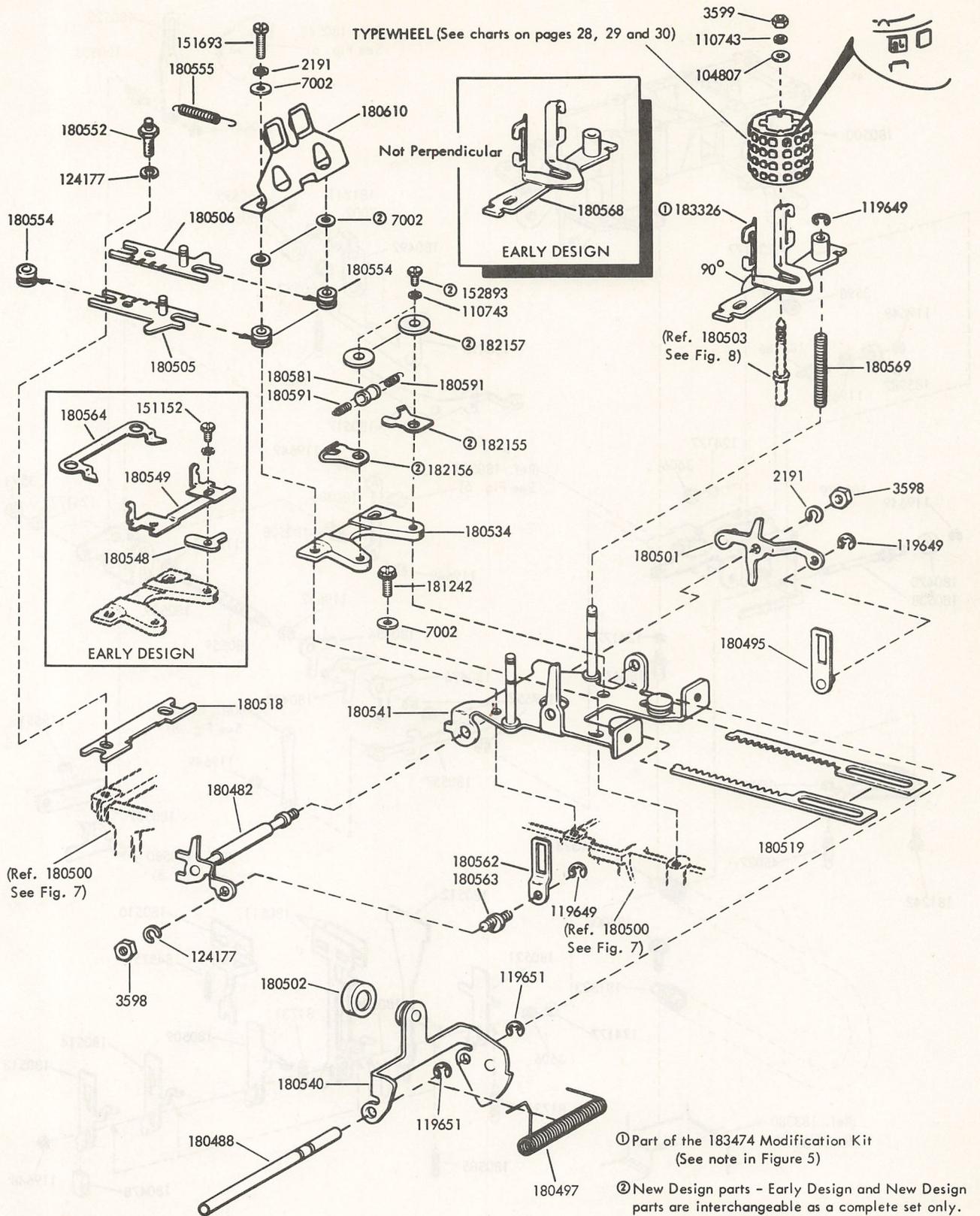


FIGURE 6. CARRIAGE UPPER PLATE MECHANISM

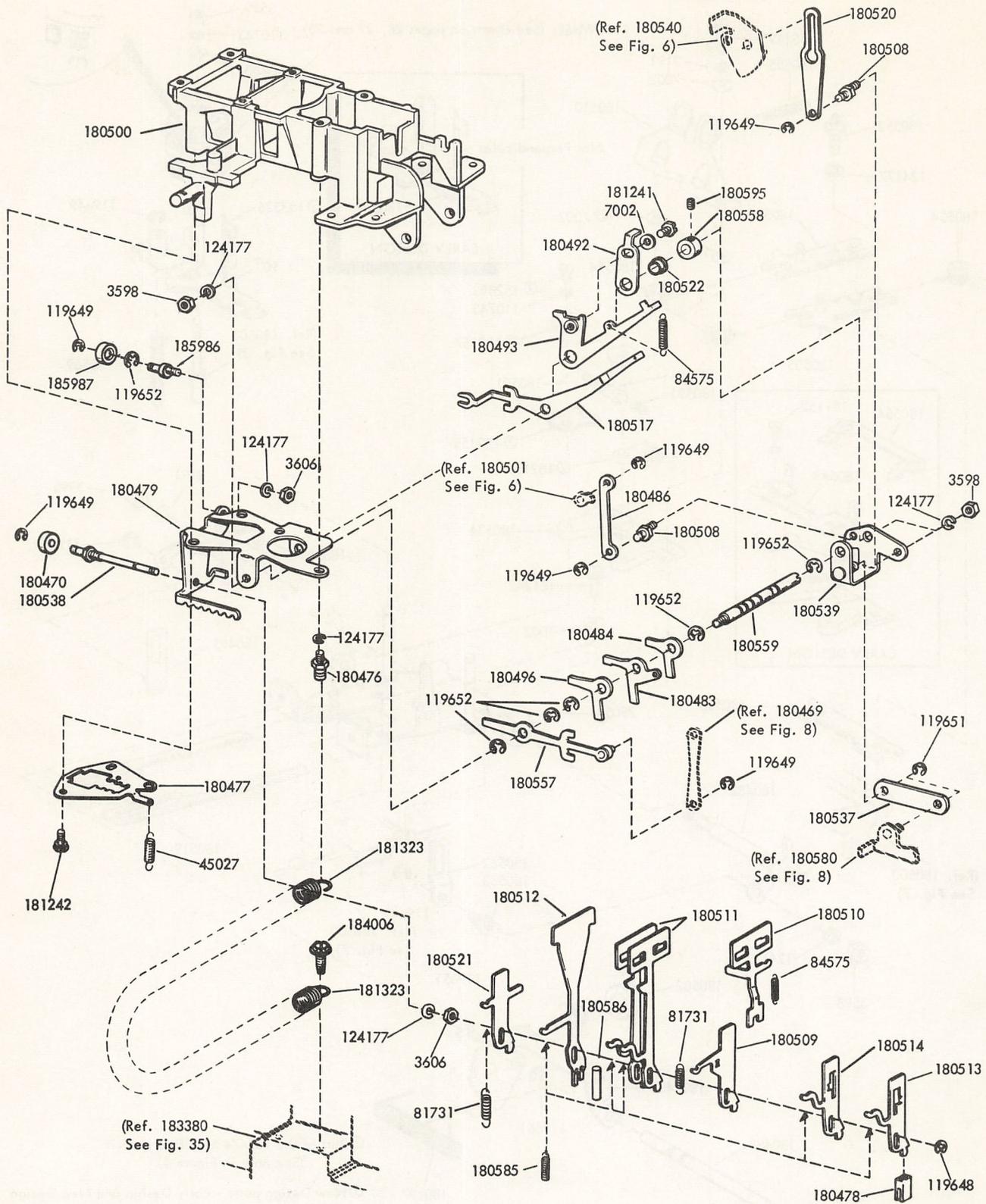


FIGURE 7. CARRIAGE LOWER PLATE MECHANISM

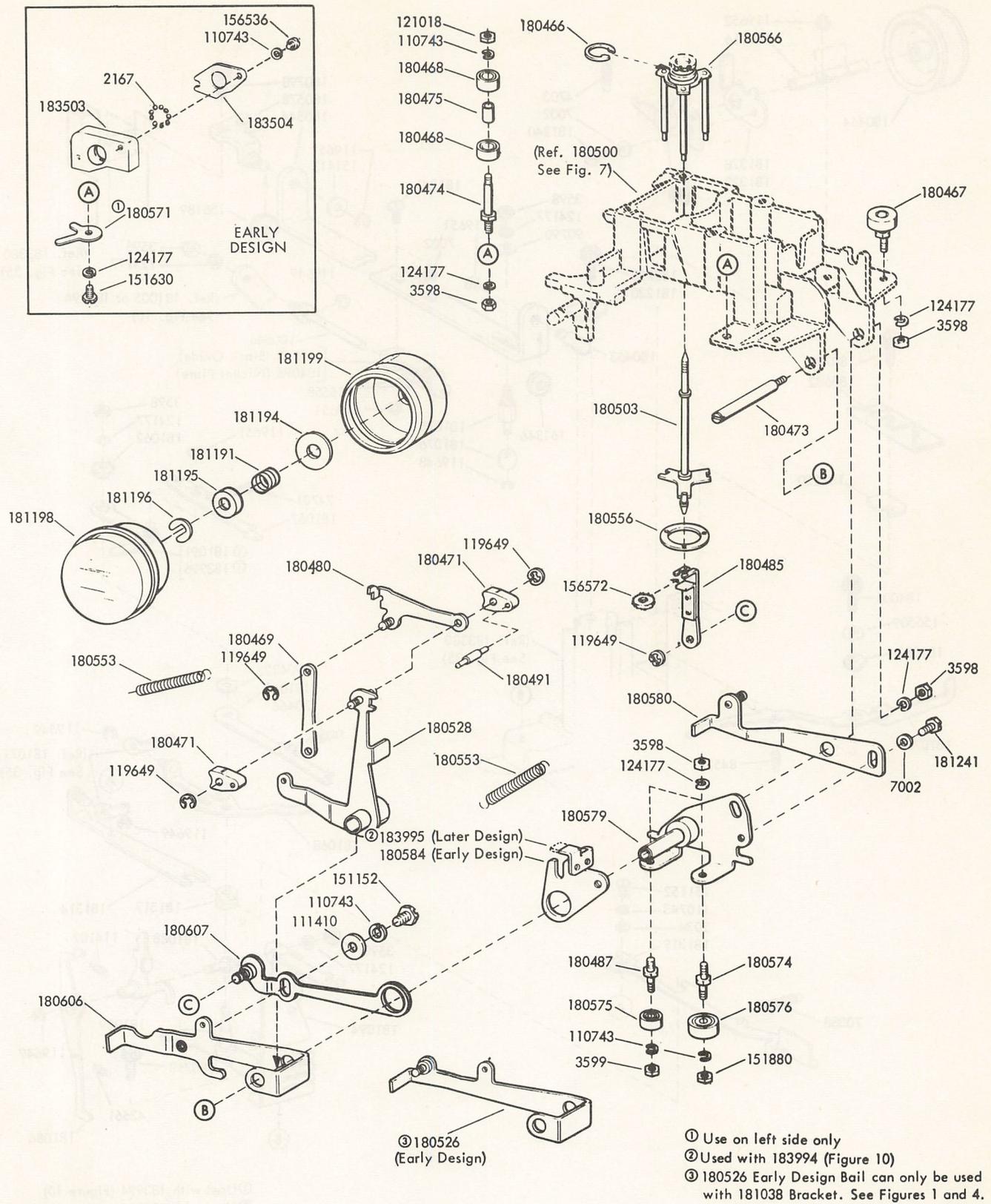
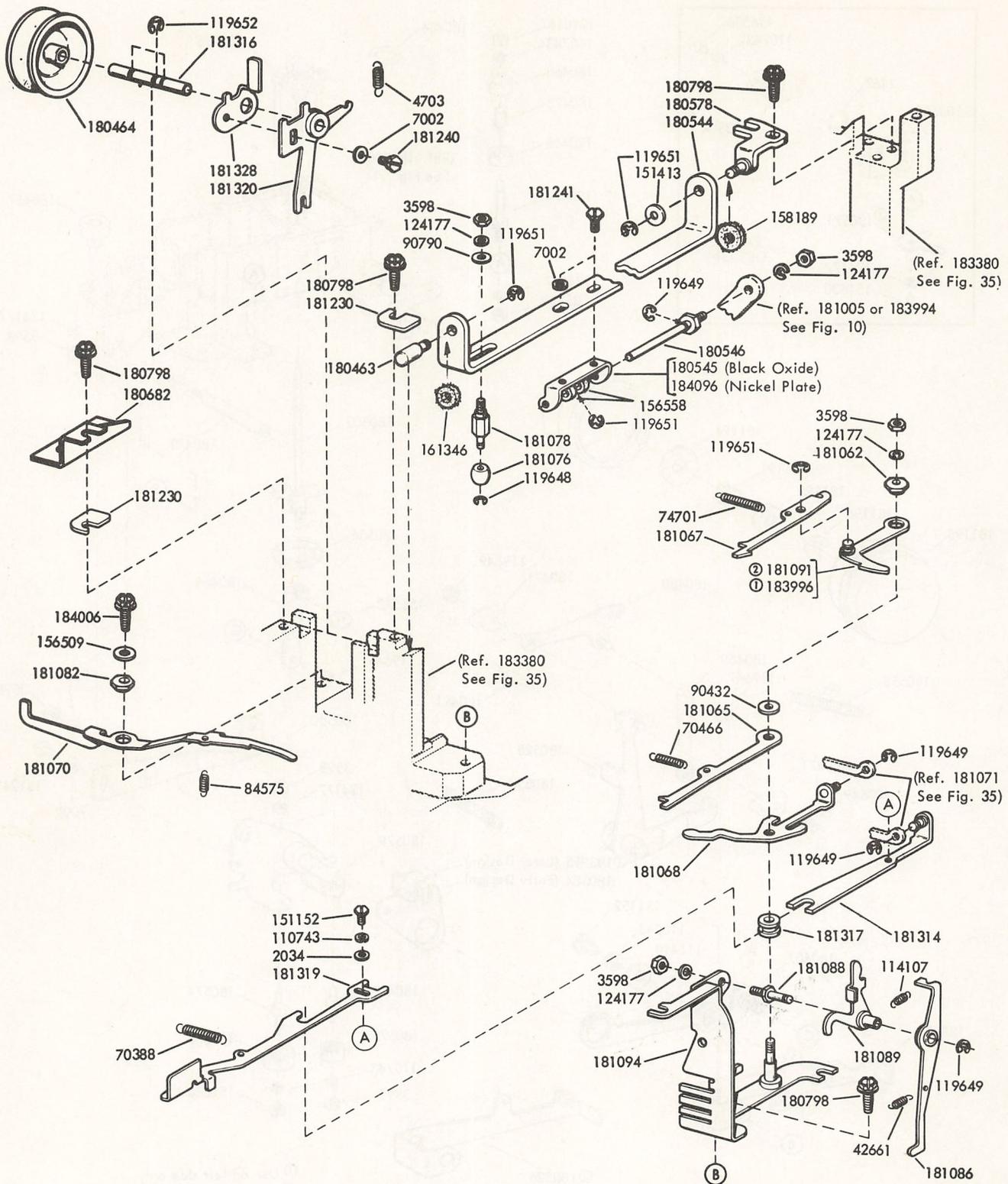
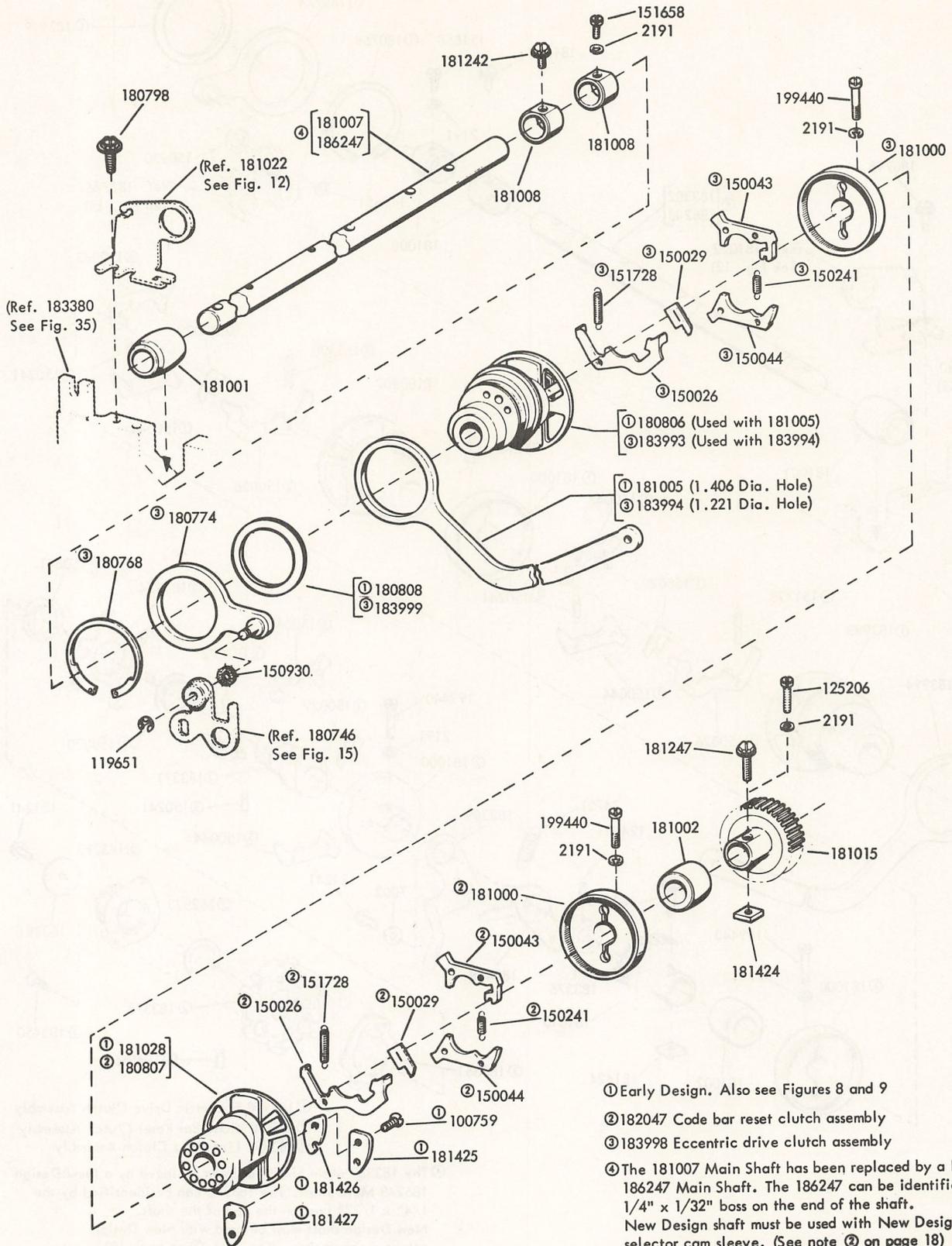


FIGURE 8. CARRIAGE POWER BAIL MECHANISM



① Used with 183994 (Figure 10)  
 ② Used with 181005 (Figure 10)

FIGURE 9. CARRIAGE DRIVE BAIL MECHANISM



- ① Early Design. Also see Figures 8 and 9
- ② 182047 Code bar 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 18)

FIGURE 10. MAIN SHAFT MECHANISM - FRICTION FEED

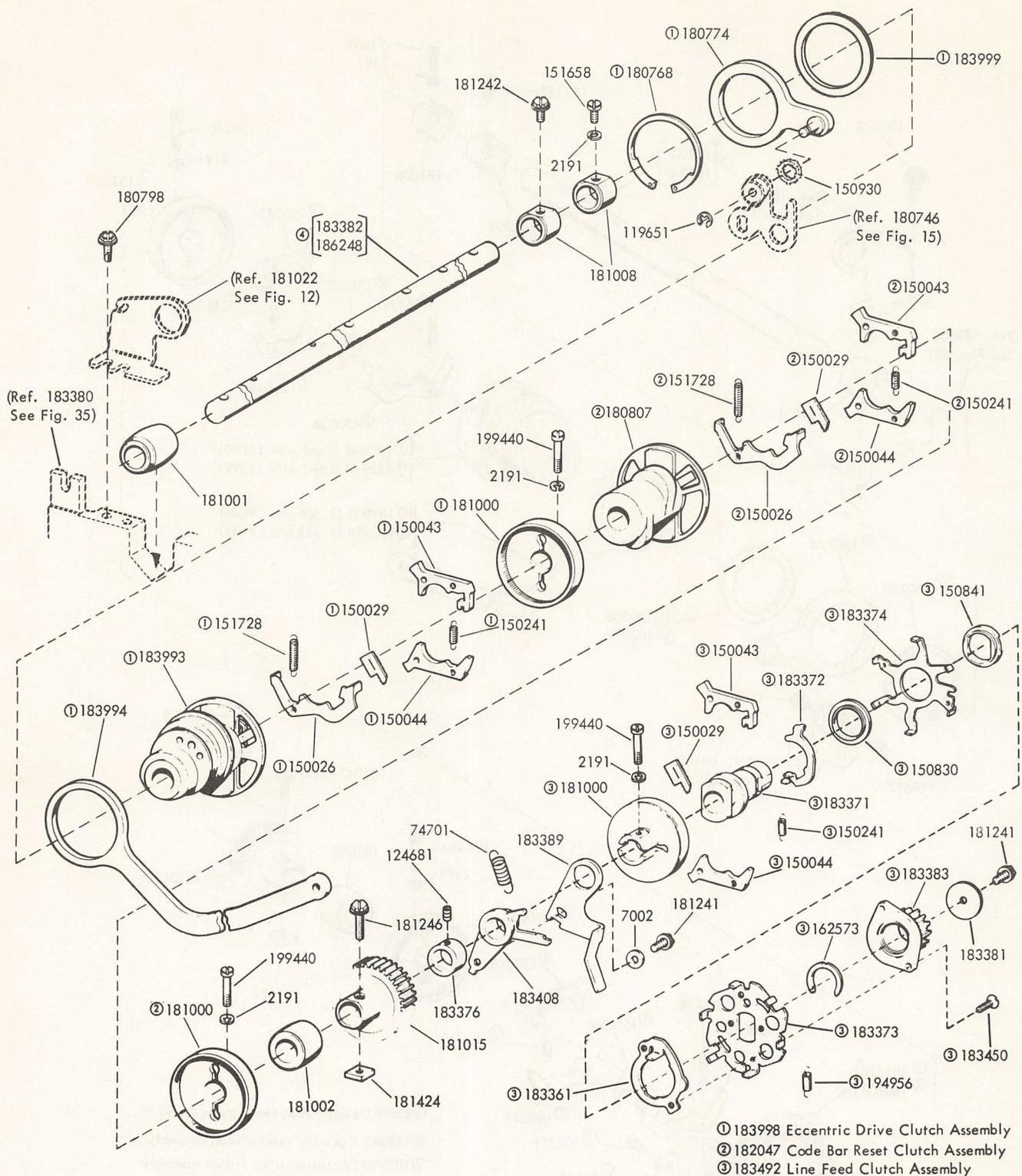


FIGURE 11. MAIN SHAFT MECHANISM - SPROCKET FEED

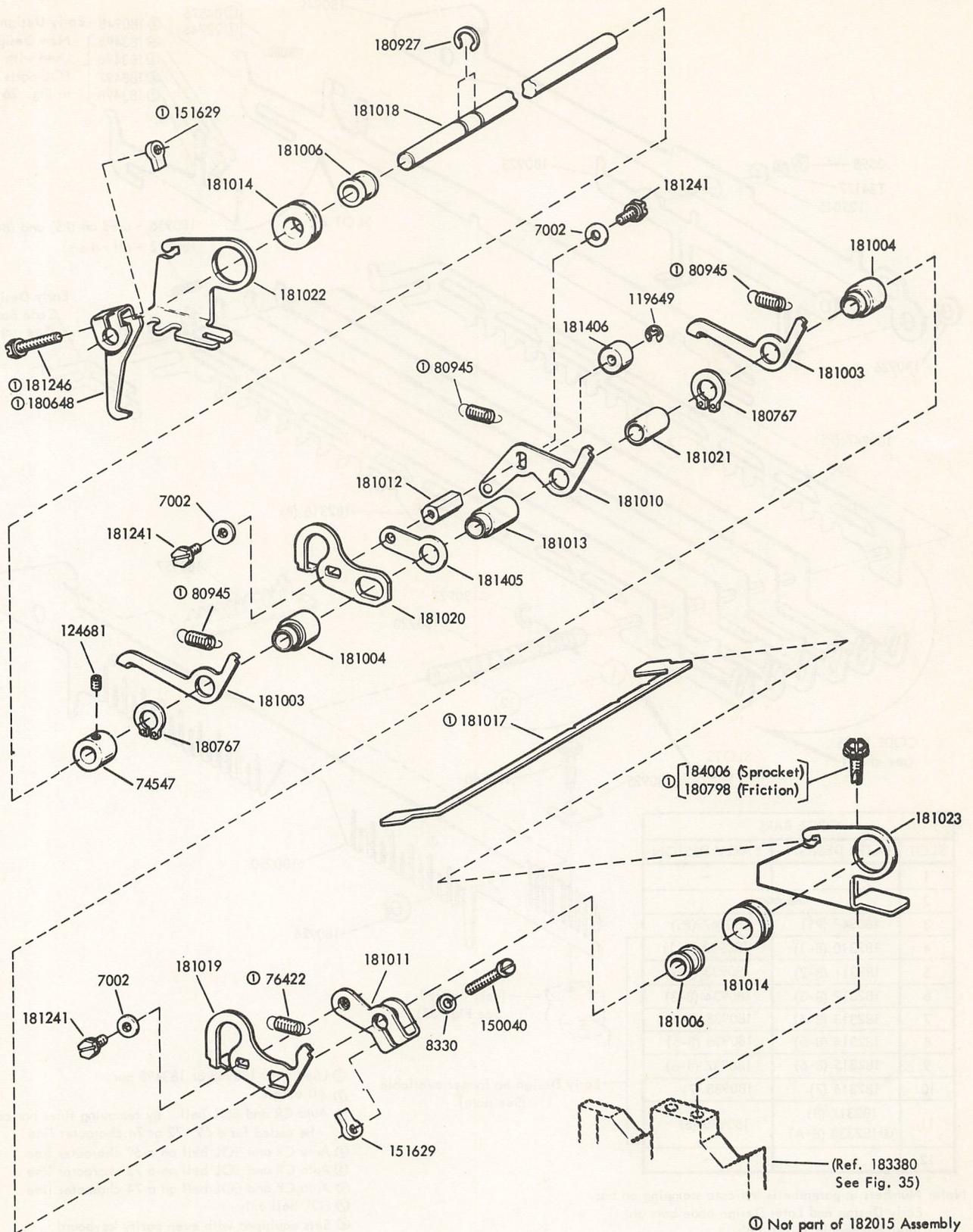


FIGURE 12. 182015 CLUTCH TRIP LEVER ASSEMBLY

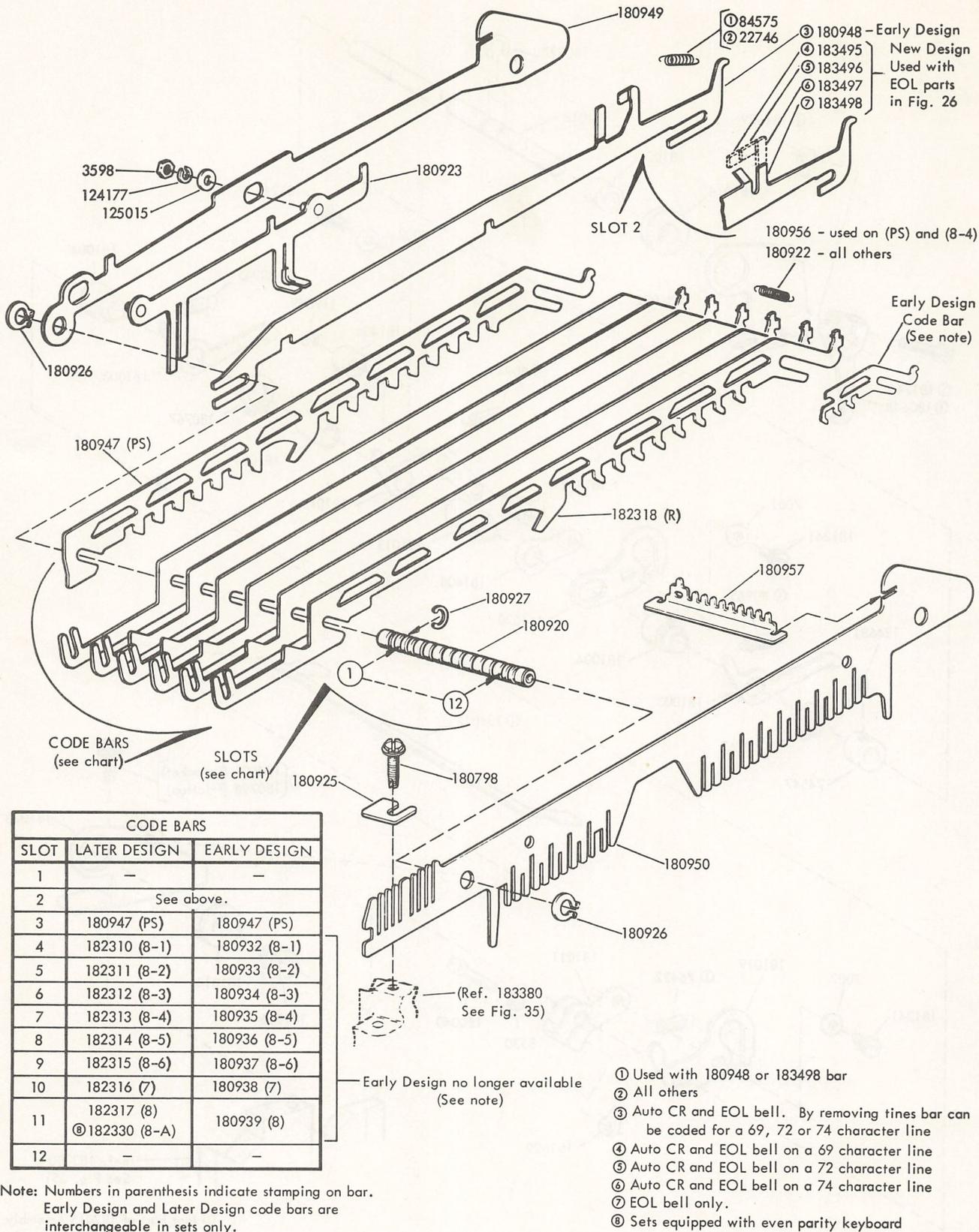


FIGURE 13. CODE BAR BASKET MECHANISM

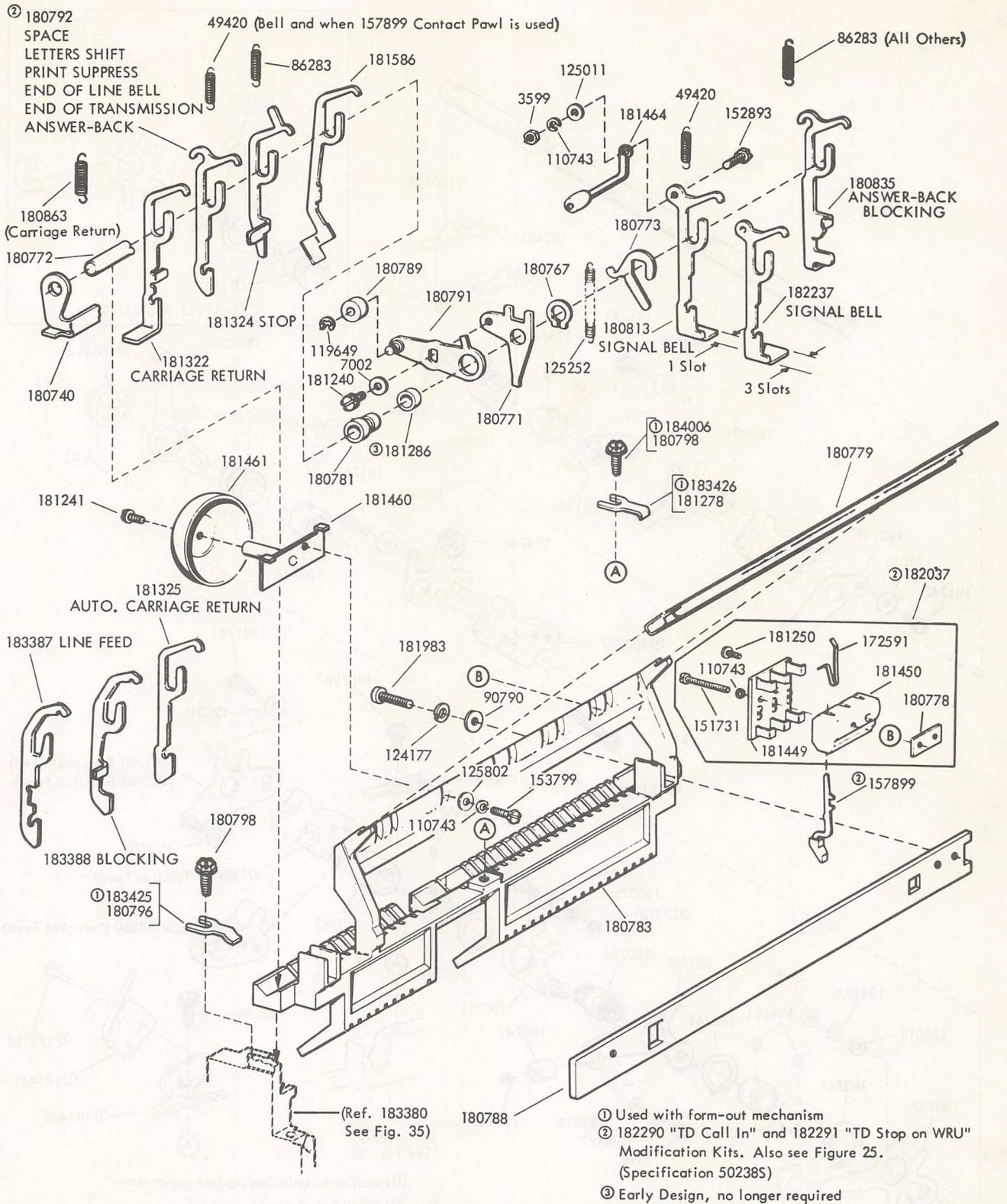


FIGURE 14. FUNCTION BOX MECHANISM

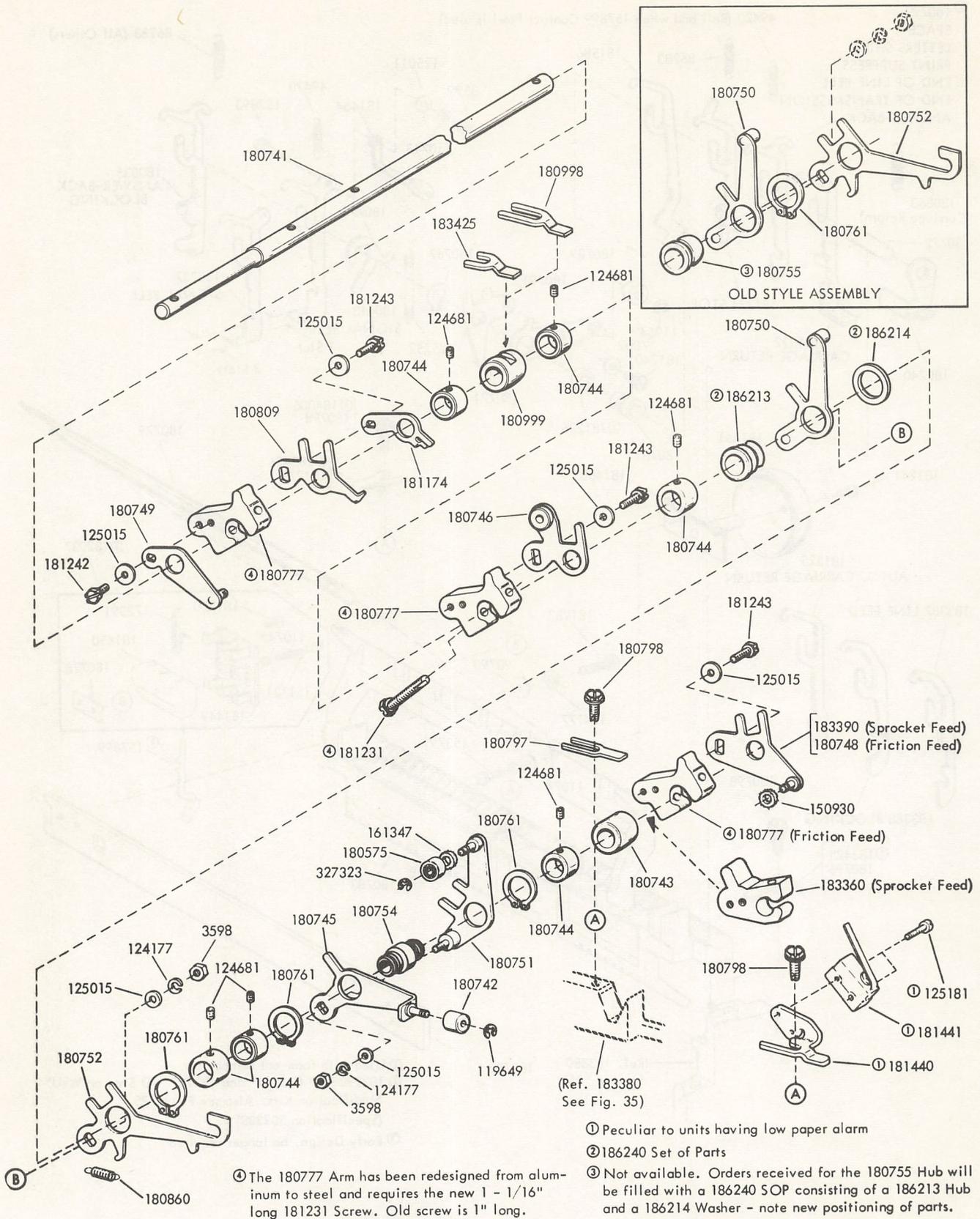


FIGURE 15. FUNCTION SHAFT MECHANISM

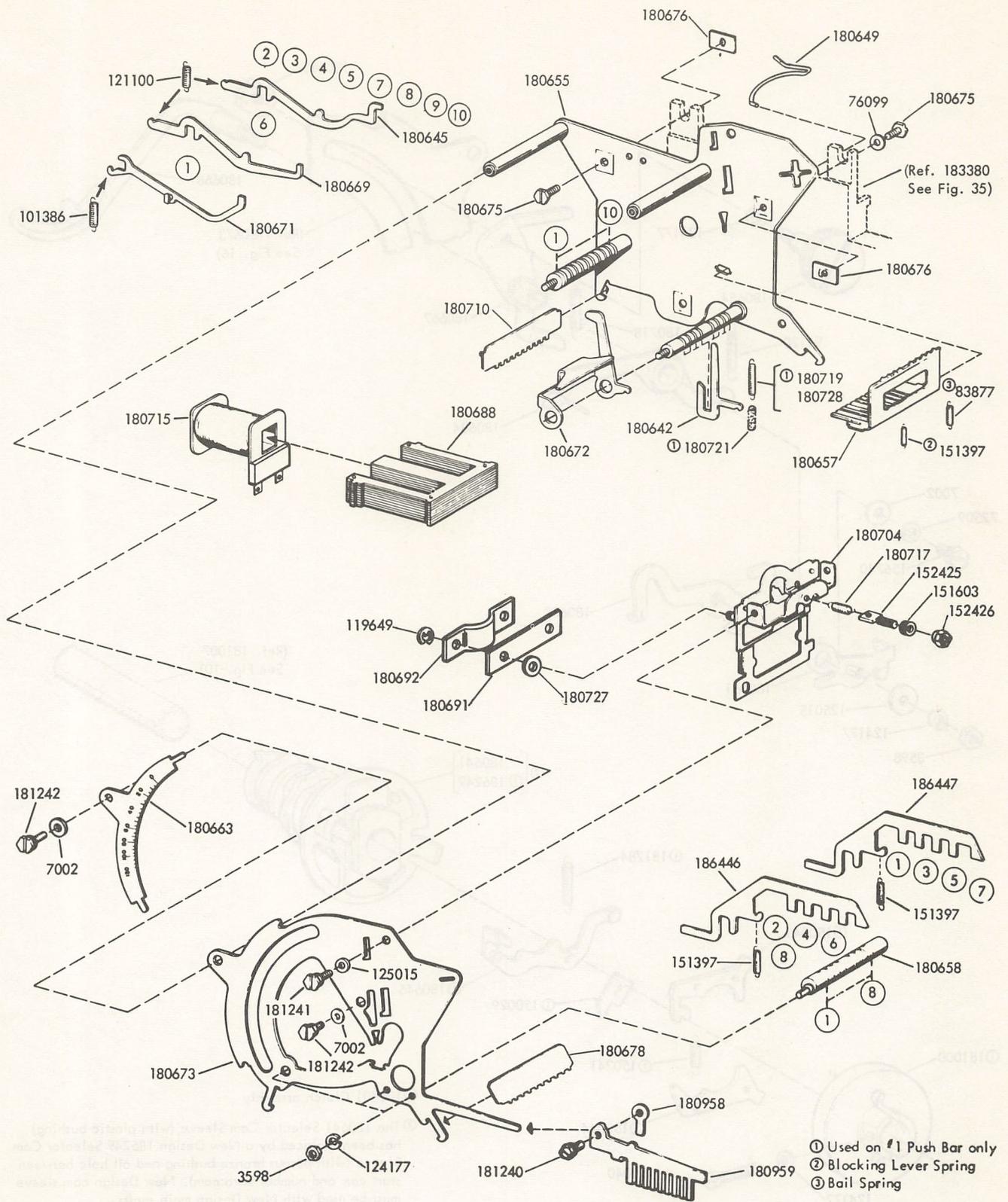


FIGURE 16. SELECTOR FRAME MECHANISM

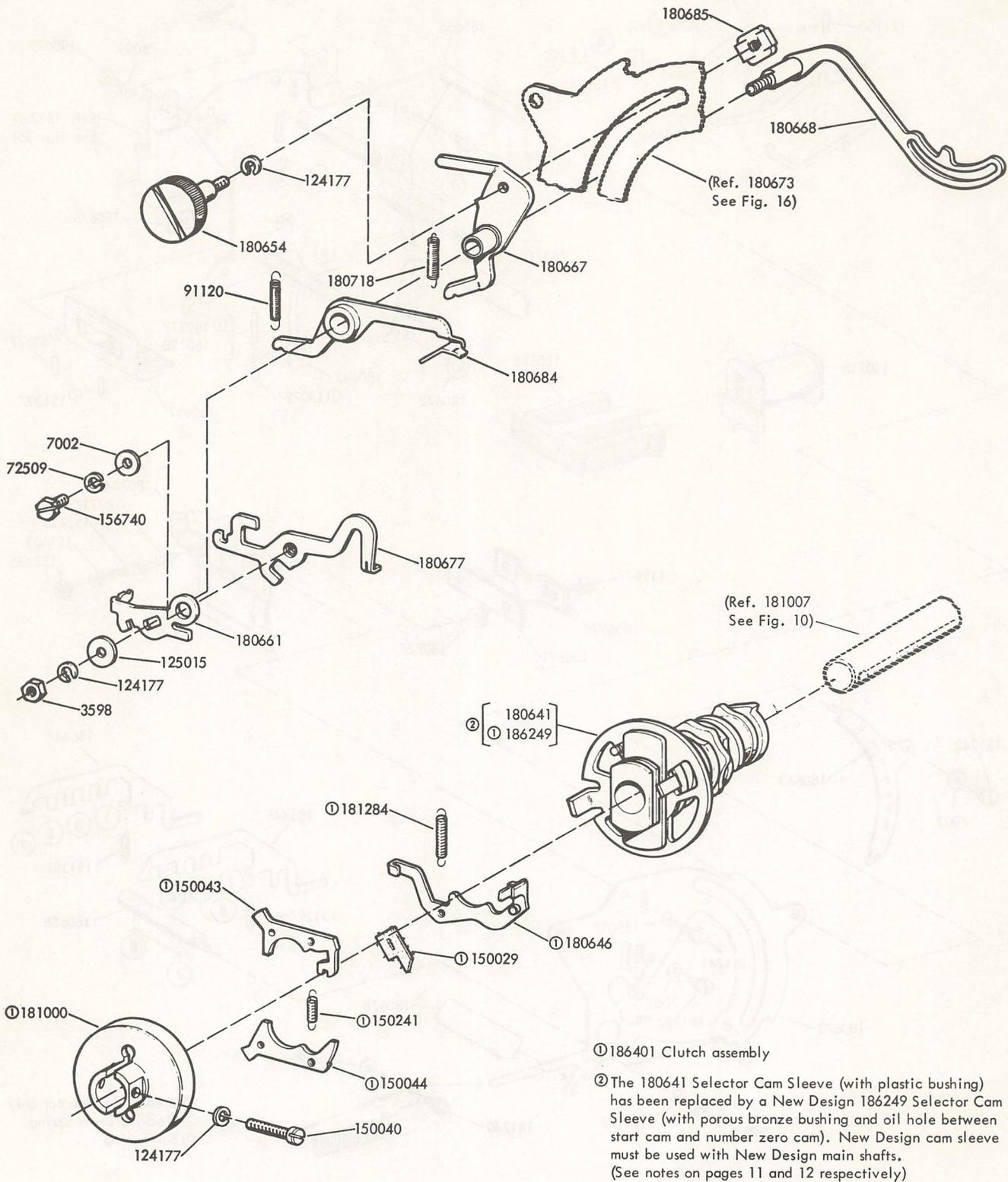
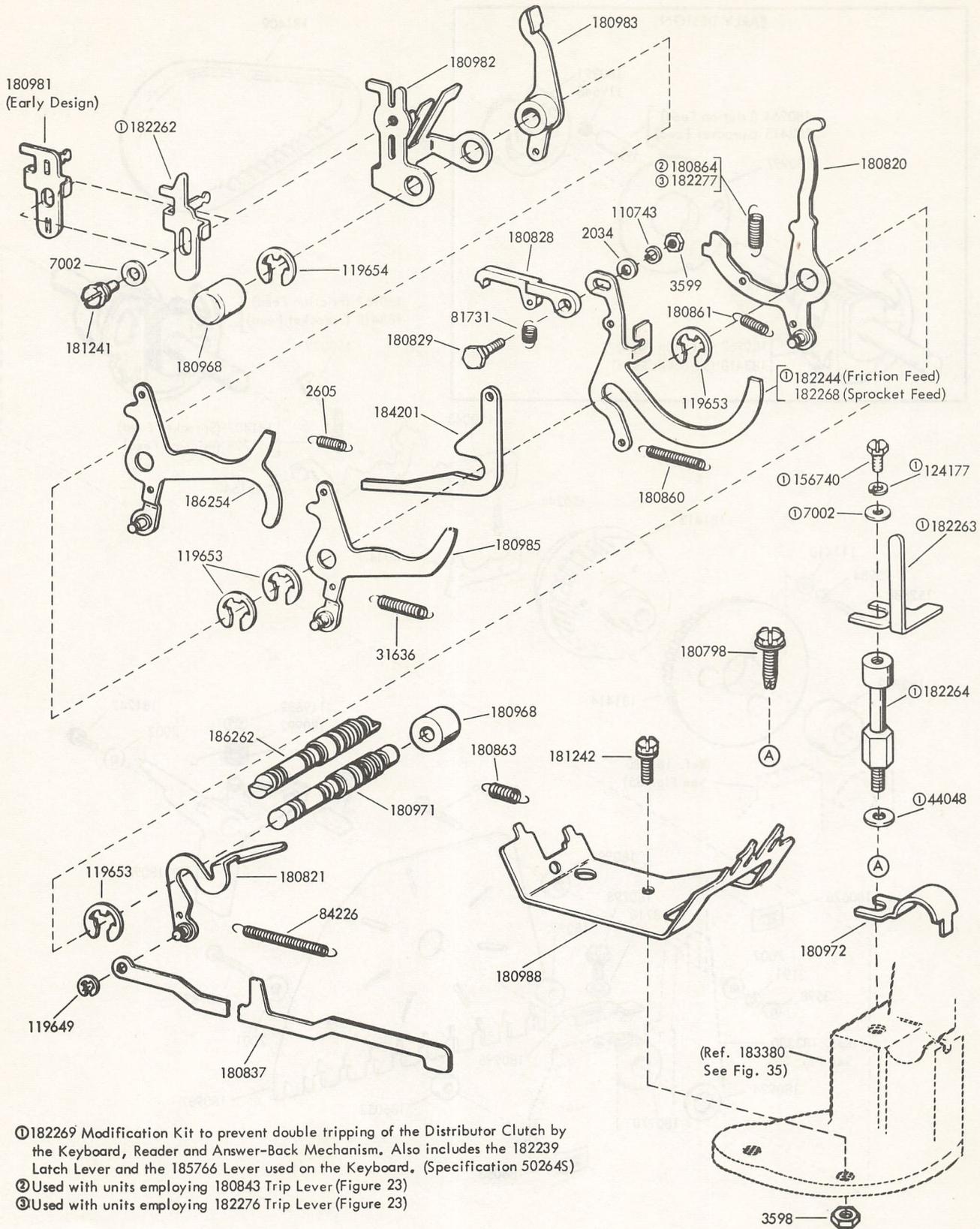


FIGURE 17. CLUTCH AND CAMSLEEVE MECHANISM





- ① 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 185766 Lever used on the Keyboard. (Specification 502645)
- ② Used with units employing 180843 Trip Lever (Figure 23)
- ③ Used with units employing 182276 Trip Lever (Figure 23)

FIGURE 19. TRIP SHAFT MECHANISM



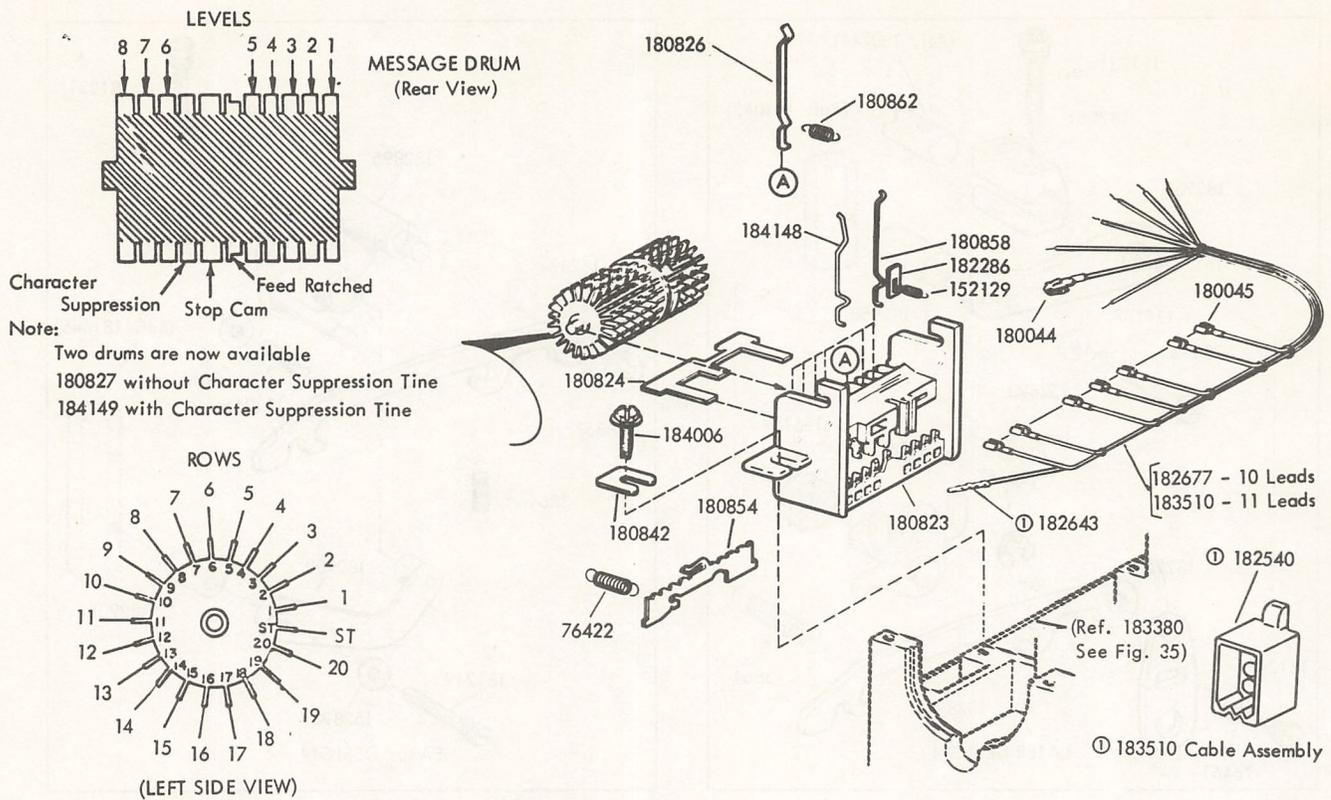


FIGURE 22. ANSWER-BACK DRUM MECHANISM

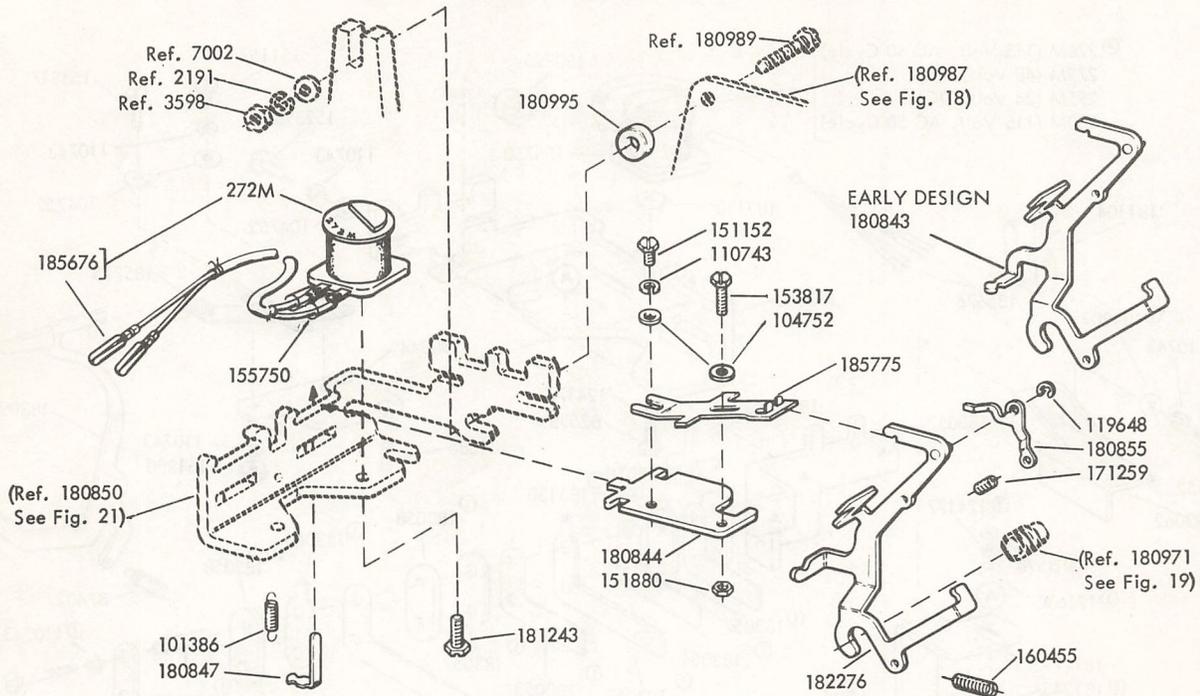
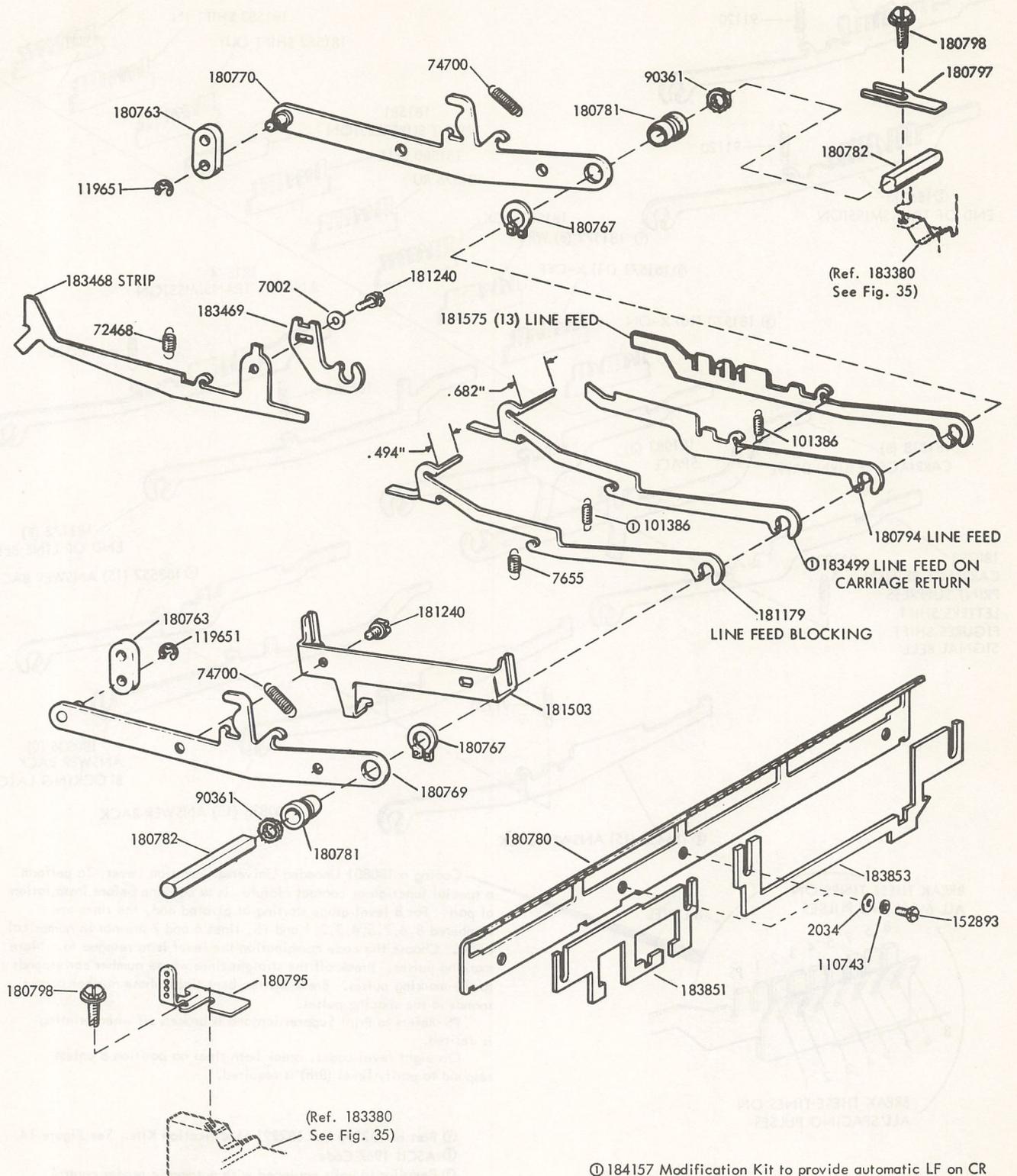


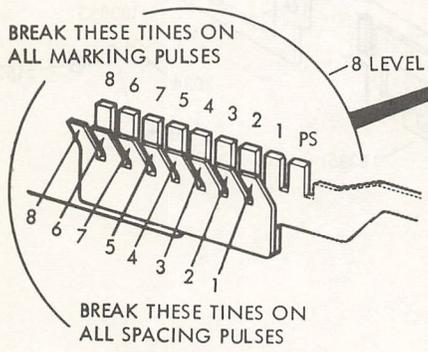
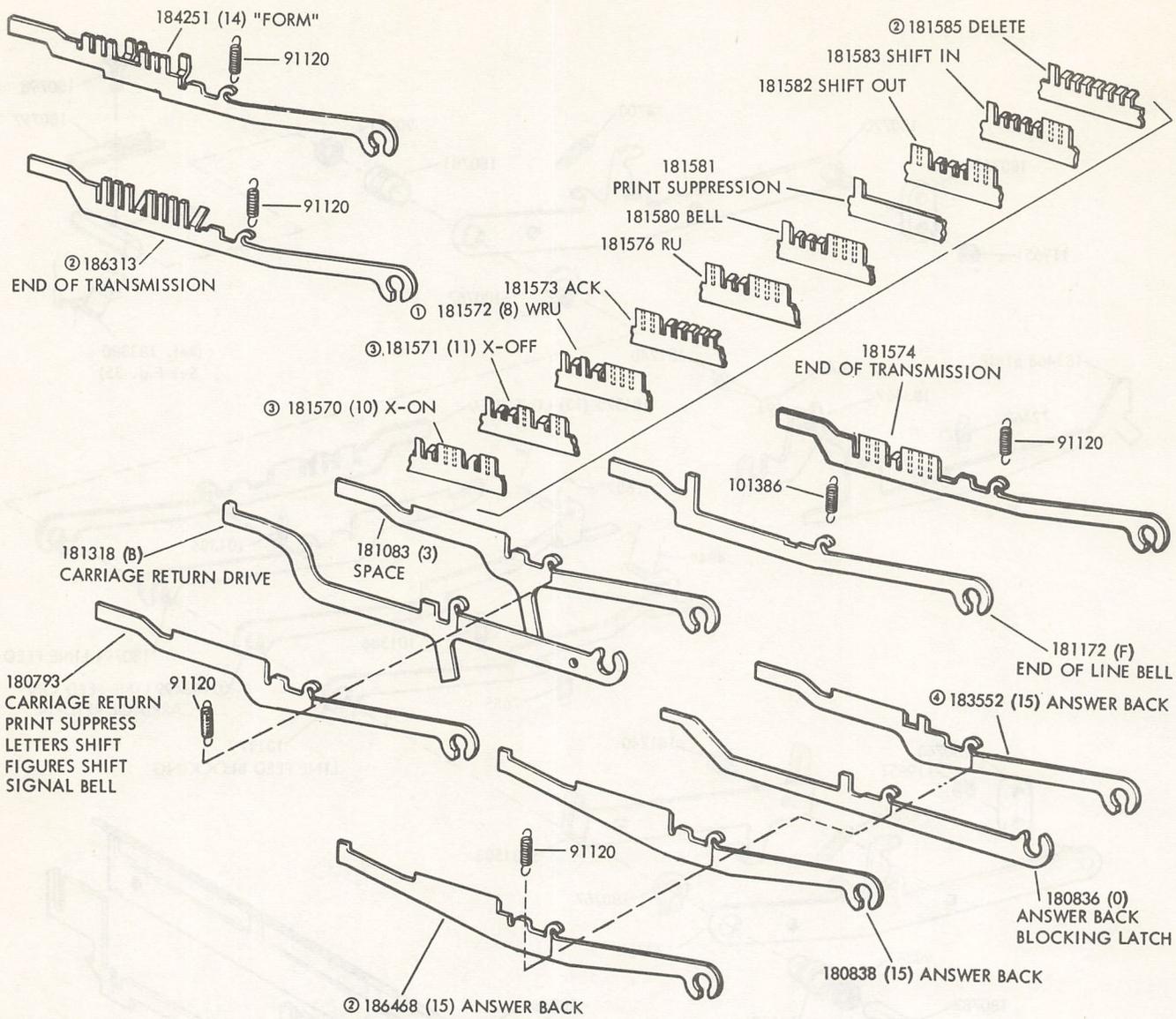
FIGURE 23. ANSWER-BACK TRIP MAGNET MECHANISM



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

Number in parenthesis ( ) indicates slot number

FIGURE 24. LINE FEED FUNCTION LEVER MECHANISM



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.

- ① Part of 182290 and 182291 Modification Kits. See Figure 14.
- ② ASCII 1967 Code
- ③ Peculiar to units equipped with automatic reader control
- ④ Peculiar to units having two-color printing

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

FIGURE 25. FUNCTION LEVERS

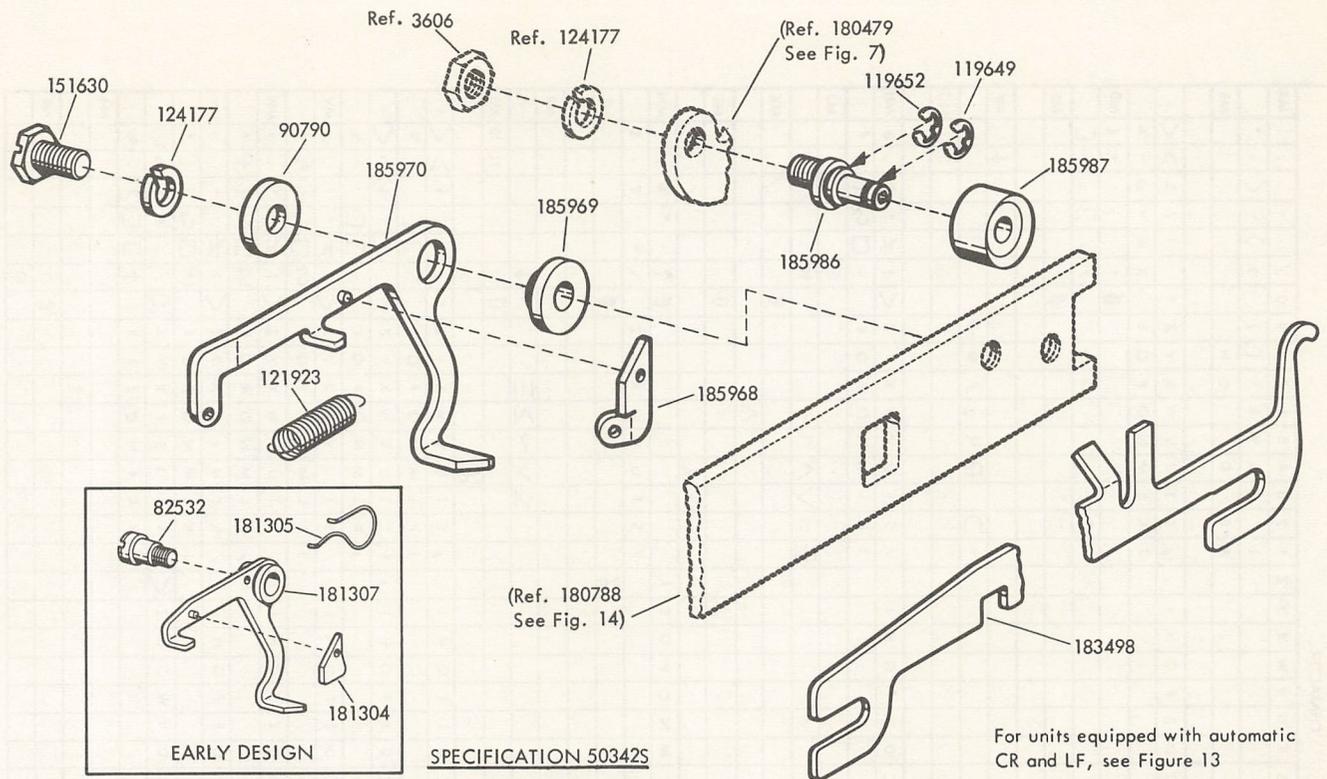


FIGURE 26. 185971 MODIFICATION KIT TO PROVIDE PRINTER WITH AN END-OF-LINE BELL TO RING ON APPROXIMATELY THE 62ND CHARACTER

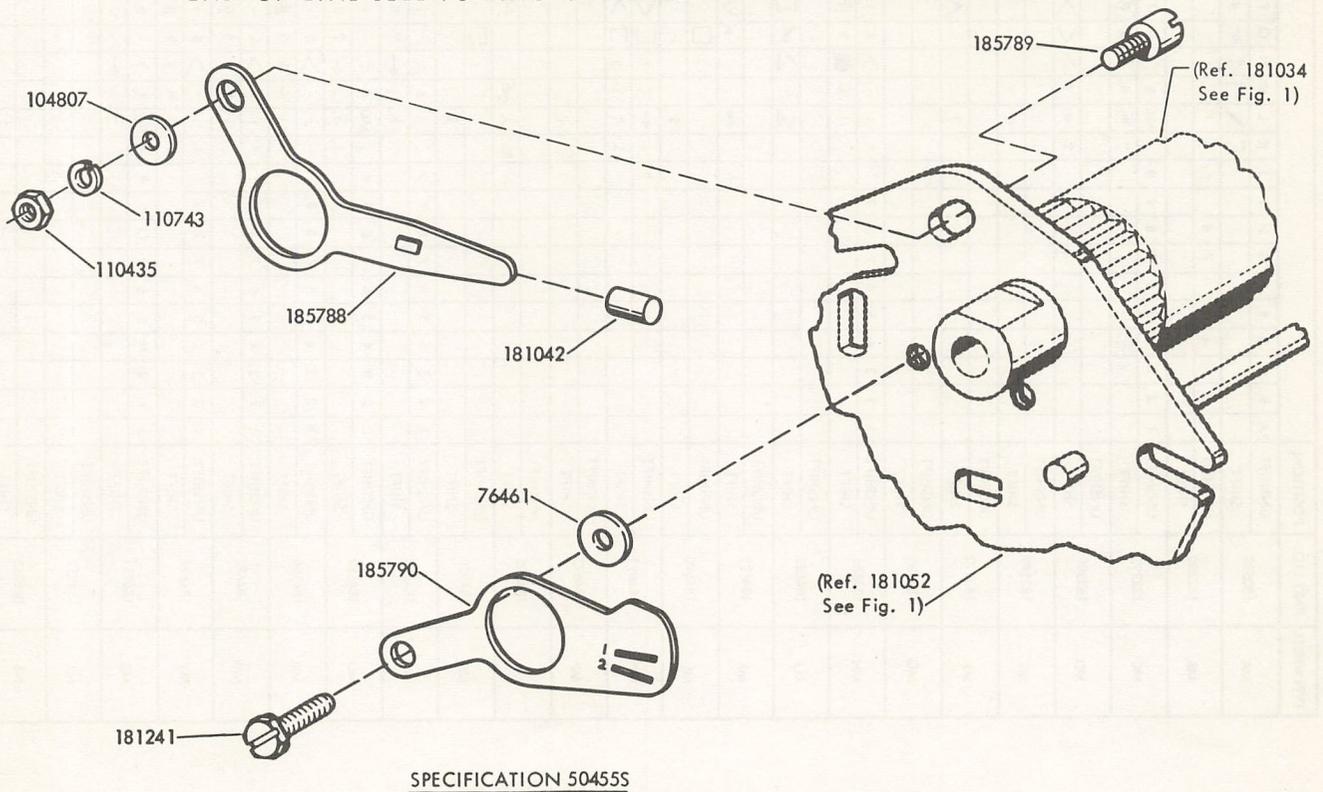


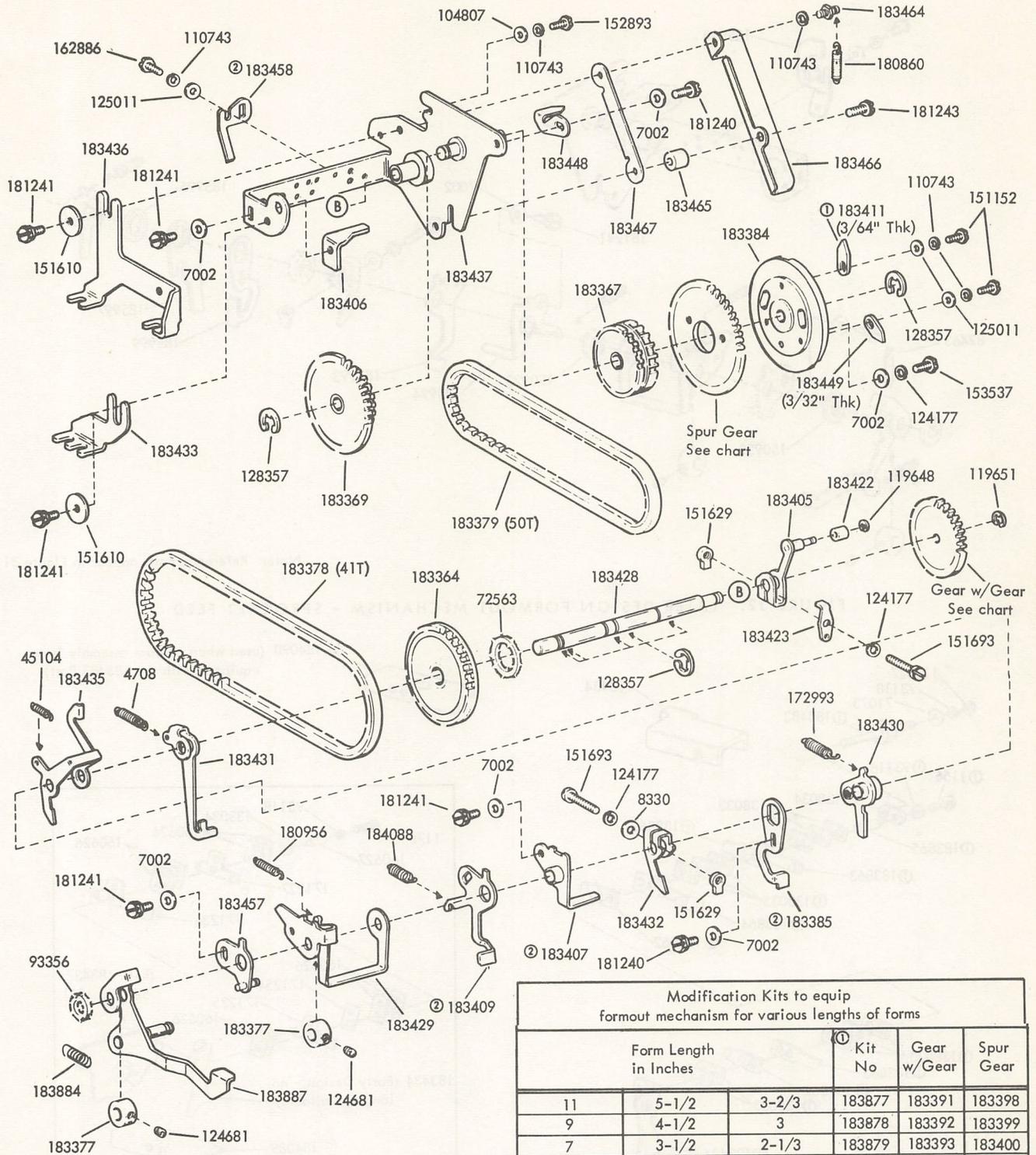
FIGURE 27. 185791 MODIFICATION KIT TO PROVIDE CONTROLLED SINGLE OR DOUBLE LINE FEED FEATURE ON FRICTION FEED PRINTER

| TYPEWHEEL | PART NO. | POSITION | CHARACTER |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------|----------|----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|           |          |          | 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 |
| MA        | 180598   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MB        | 182280   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MC        | 182293   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MD        | 183588   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ME        | 183599   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MF        | 183922   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MG        | 184685   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MH        | 184686   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MJ        | 184688   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MK        | 184689   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ML        | 184690   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MN        | 184691   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MP        | 184693   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MR        | 184695   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MS        | 184950   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MT        | 184694   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MU        | 184692   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MV        | 184696   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MW        | 184697   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MY        | 184698   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| MZ        | 184951   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| NA        | 184952   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| NB        | 184953   | UNSHIFT  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |          | SHIFT    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

FIGURE 28. TYPEWHEEL CHART



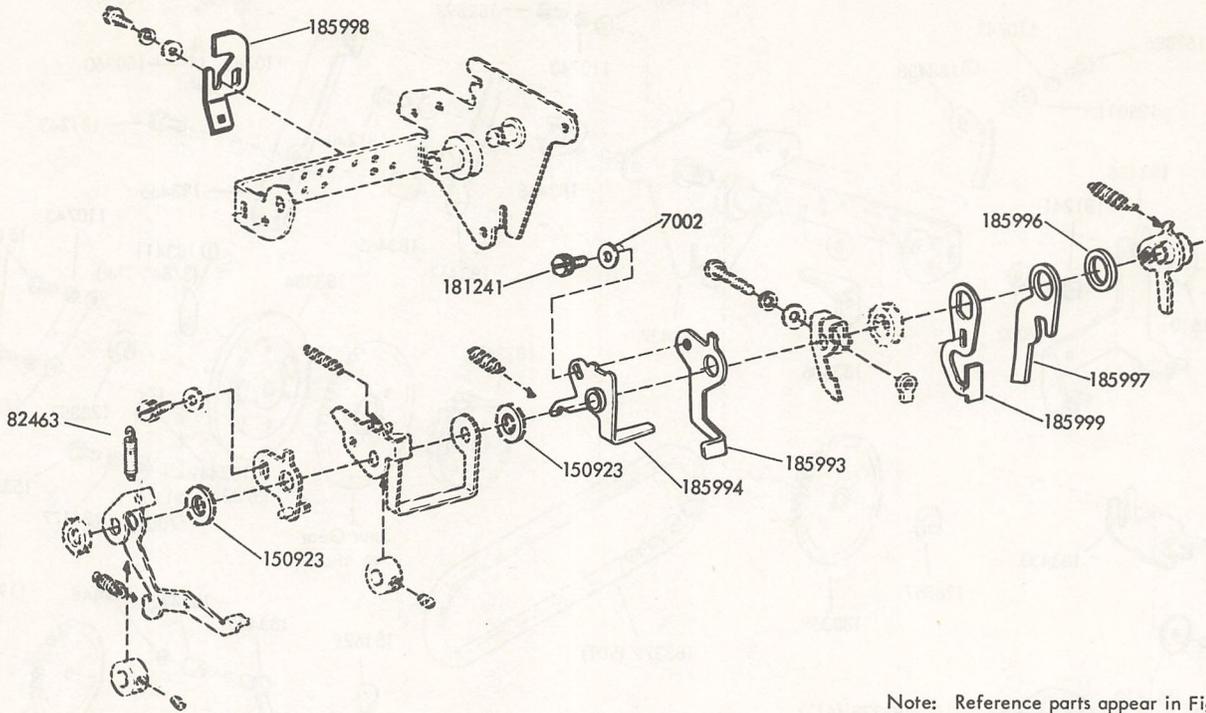




① The required number of 183411 Cam Plates and mounting hardware are furnished with each kit (Specification 504105)  
 ② Early design parts. See Figure 32 for later design.

| 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 31. FORMOUT MECHANISM - SPROCKET FEED



Note: Reference parts appear in Figure 31

FIGURE 32. LATER DESIGN FORMOUT MECHANISM - SPROCKET FEED

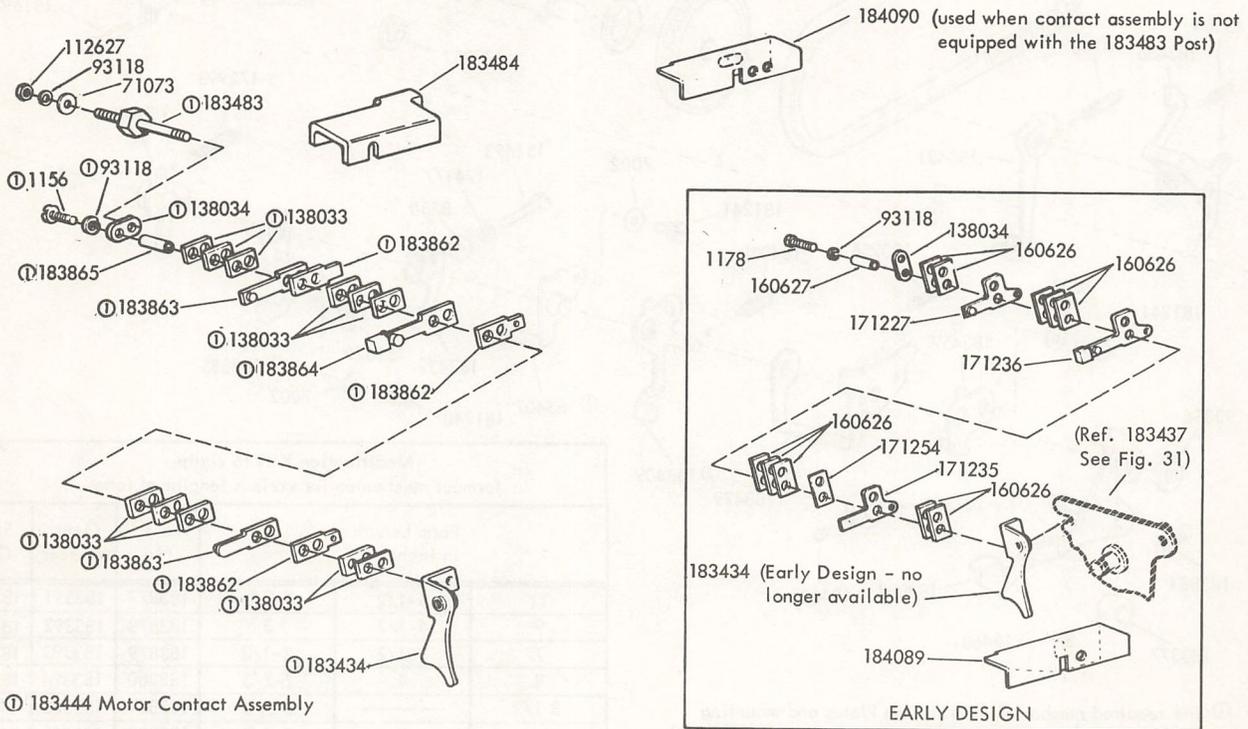


FIGURE 33. MOTOR CONTACT - SPROCKET FEED

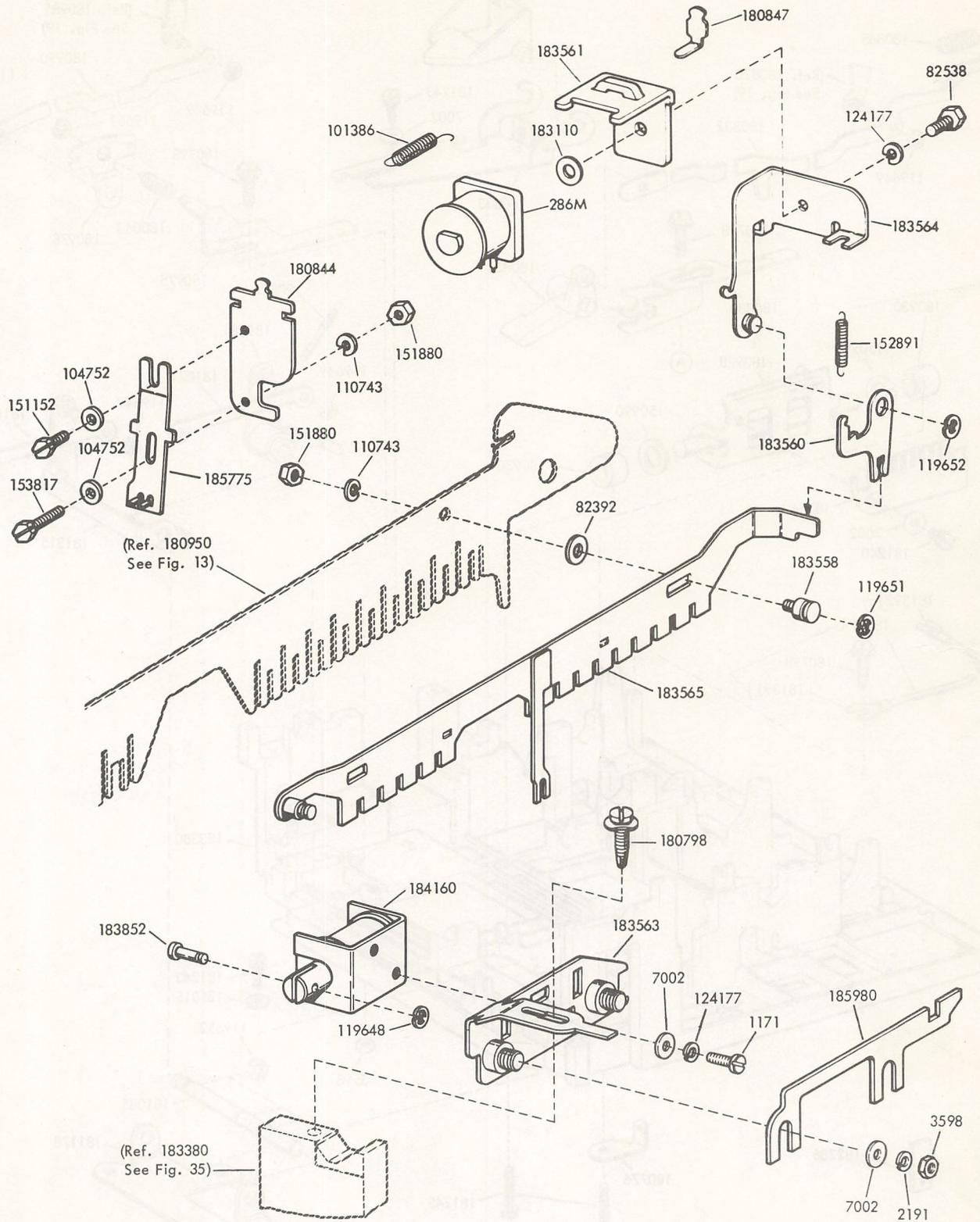


FIGURE 34. SOLENOID PRINT-NONPRINT RESET MECHANISM

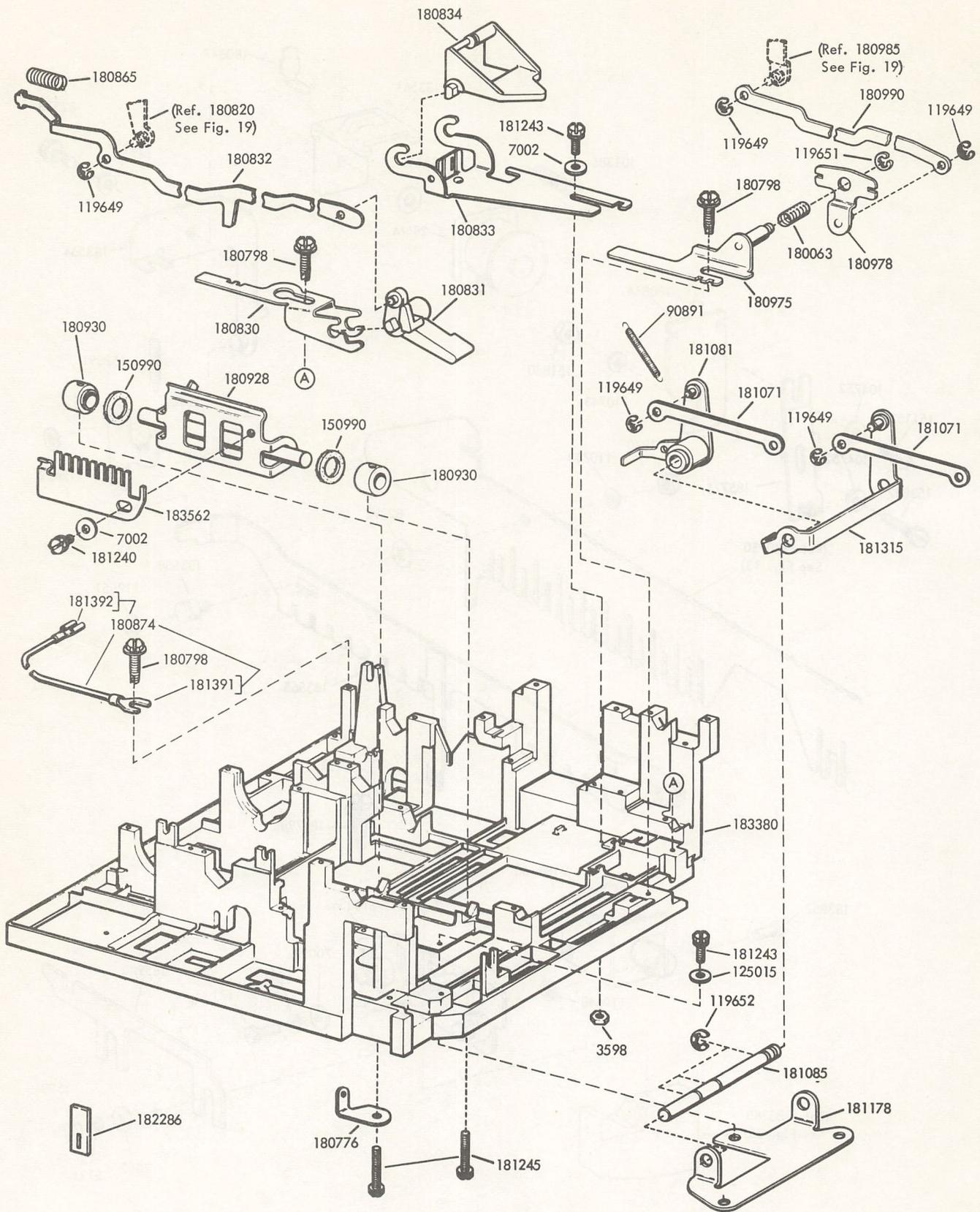
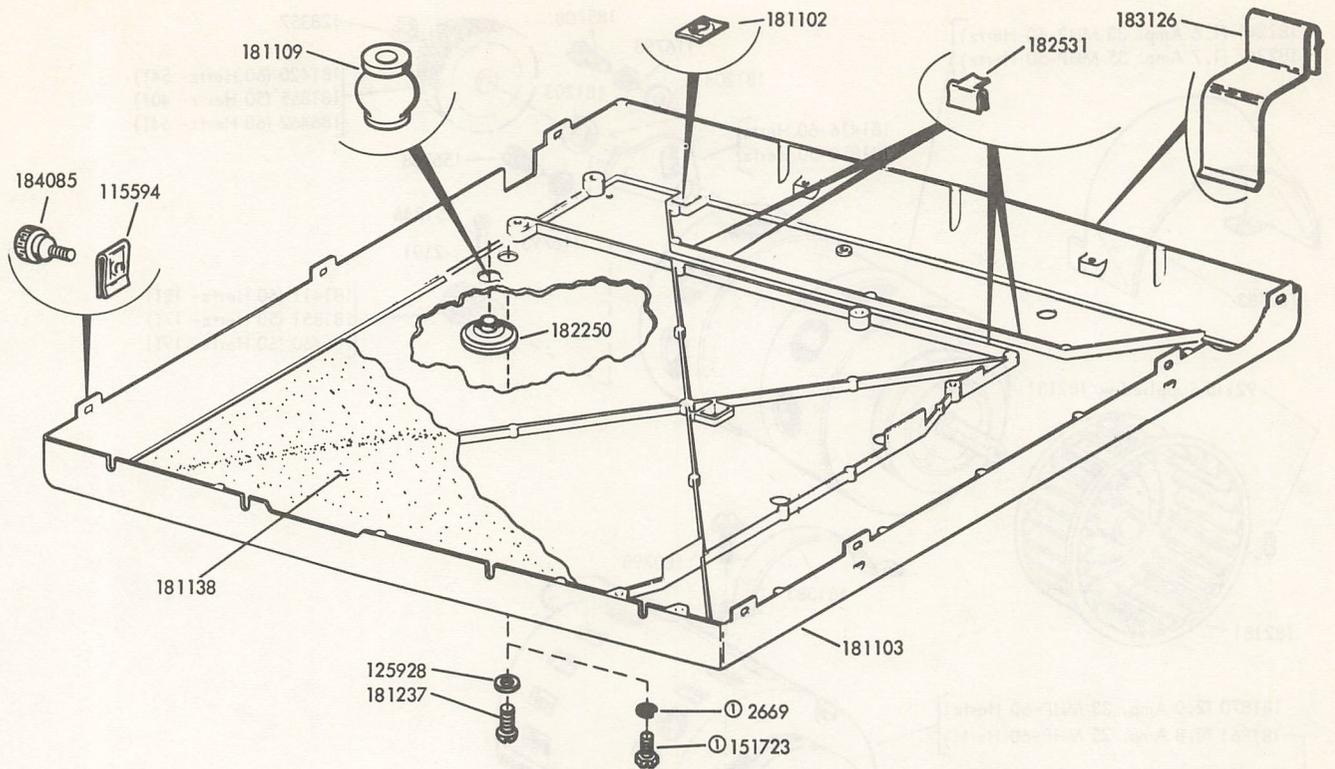


FIGURE 35. BASE



① Used on early base having two pem nuts pressed in place

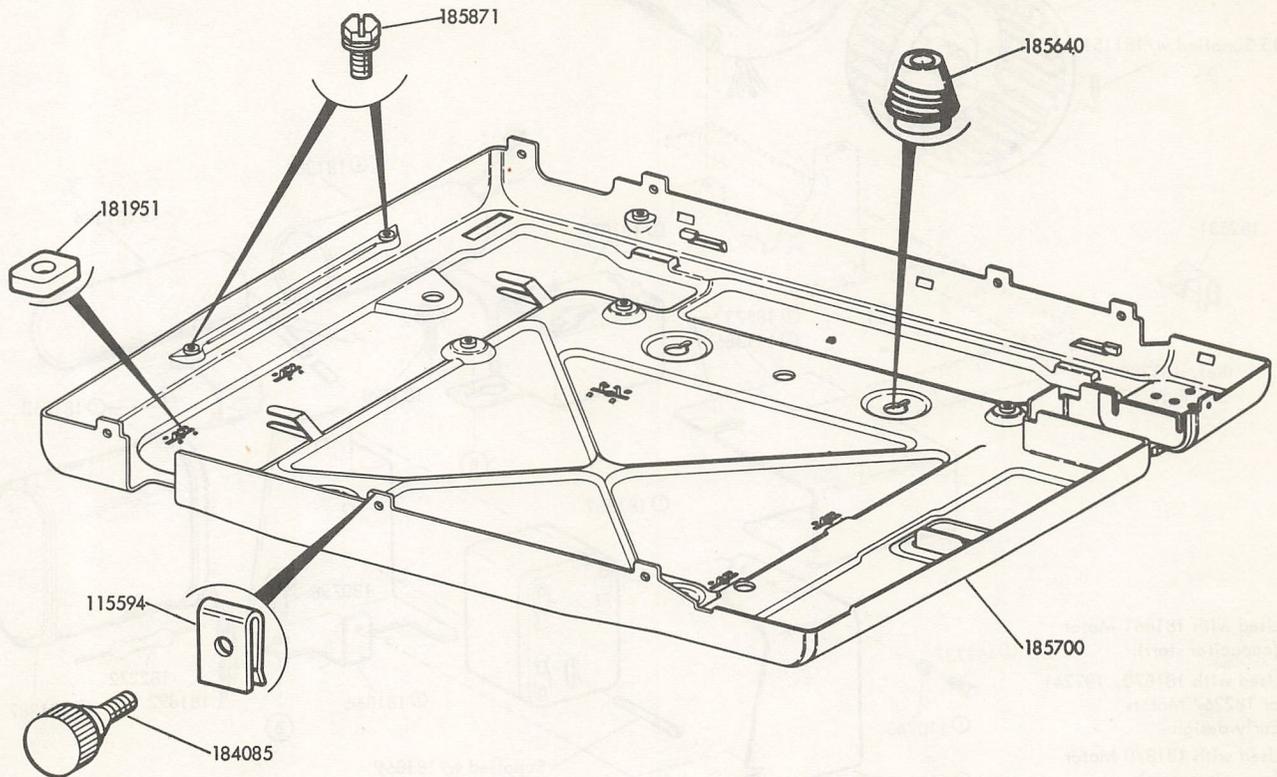


FIGURE 36. SUB BASES

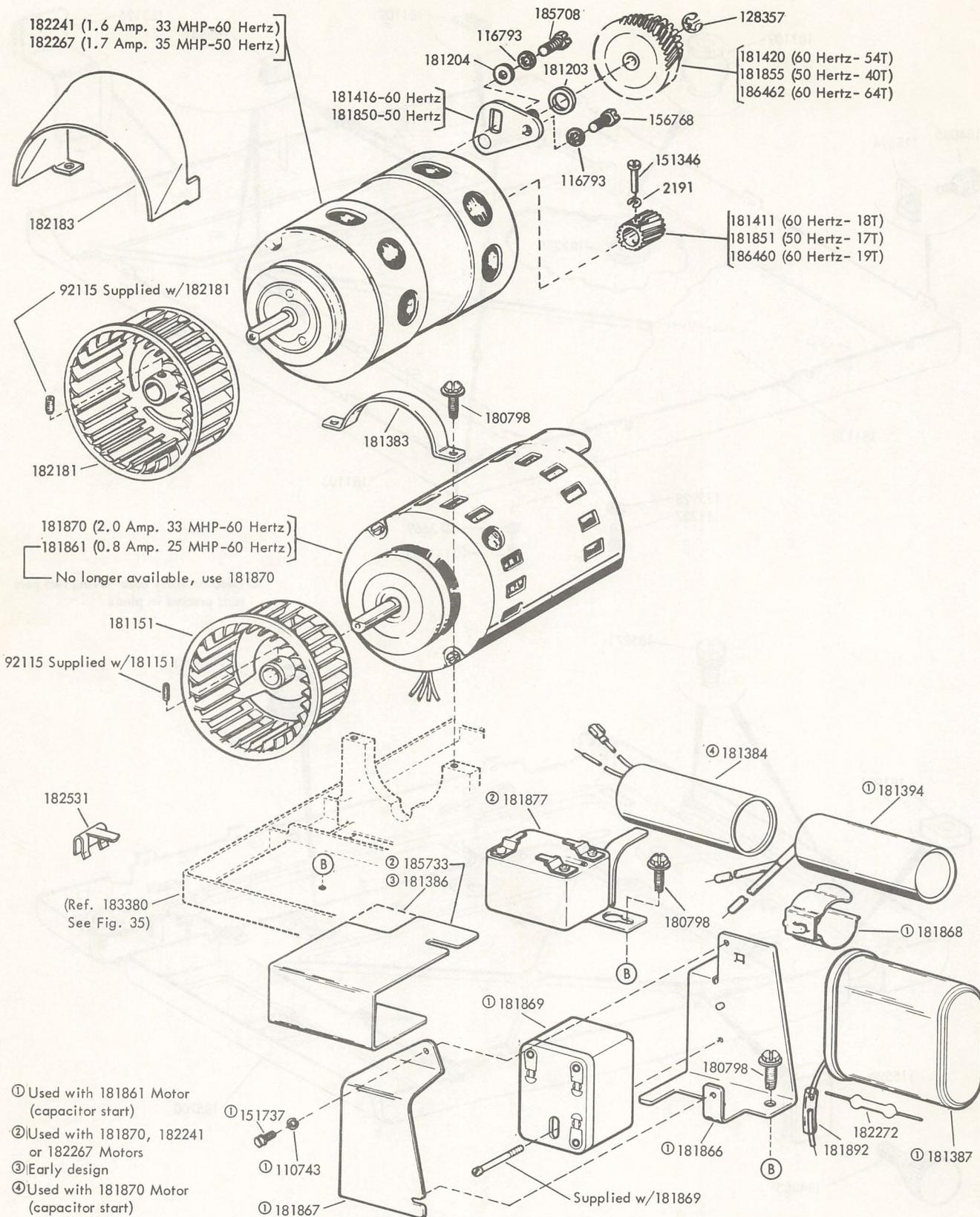


FIGURE 37. MOTORS AND ELECTRICAL COMPONENTS

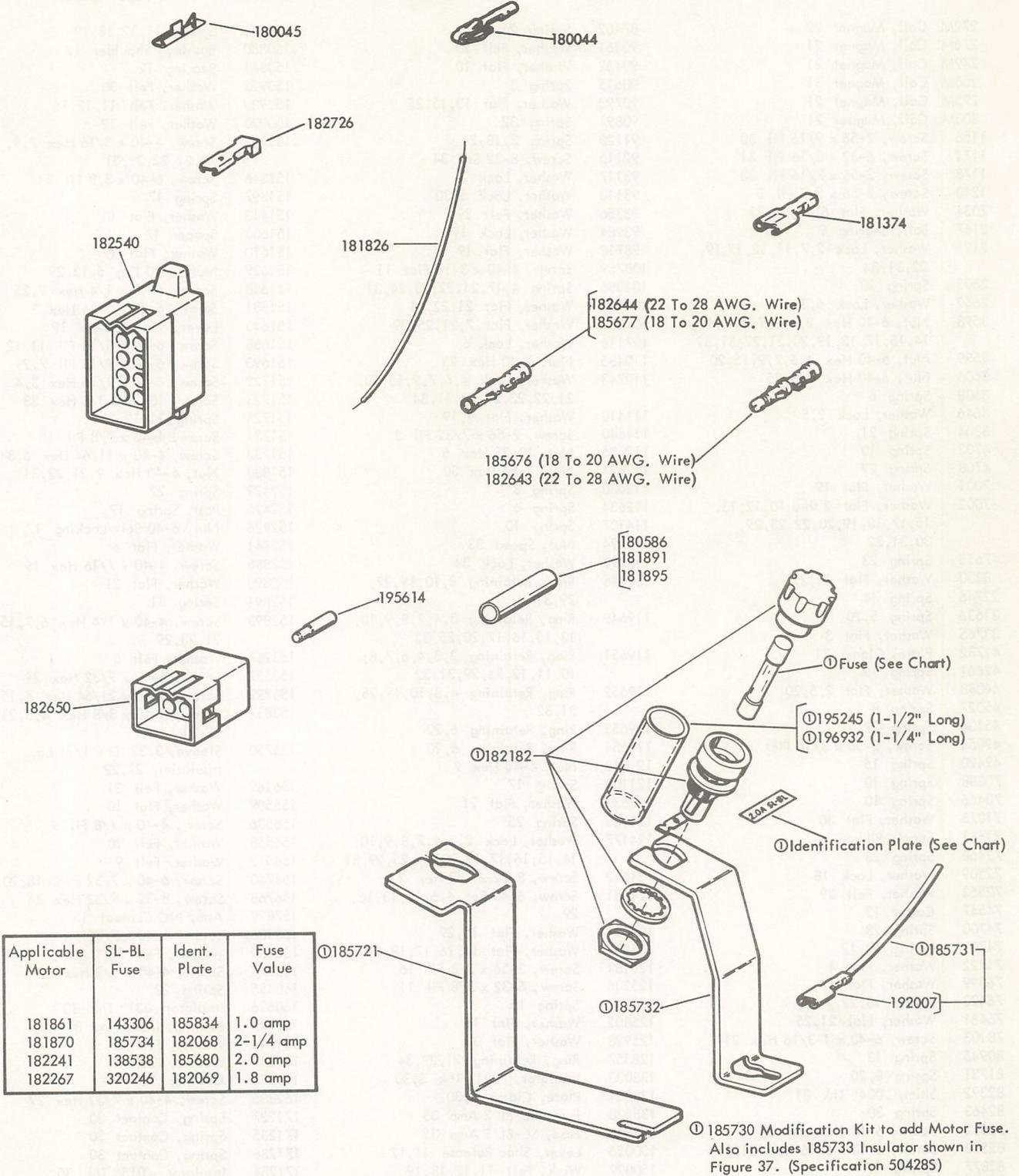


FIGURE 38. CABLE COMPONENTS

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| Part Number | Description and Page Number  | Part Number | Description and Page Number   | Part Number | Description and Page Number                     |
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| 272M        | Coil, Magnet 22  | 87402       | Spring 21   | 150241      | Spring 11, 12, 18, 19                           |
| 276M        | Coil, Magnet 21  | 90361       | Washer, Felt 23   | 150830      | Bushing, Shoulder 12                            |
| 279M        | Coil, Magnet 21  | 90432       | Washer, Flat 10   | 150841      | Bearing 12                                      |
| 286M        | Coil, Magnet 31  | 90615       | Spring 3  | 150923      | Washer, Felt 30                                 |
| 295M        | Coil, Magnet 21  | 90790       | Washer, Flat 10, 15, 25   | 150930      | Washer, Felt 11, 12, 16                         |
| 300M        | Coil, Magnet 21  | 90891       | Spring 32   | 150990      | Washer, Felt 32                                 |
| 1156        | Screw, 2-56 x 9/16 Fil 30  | 91120       | Spring 3, 18, 24  | 151152      | Screw, 4-40 x 3/16 Hex 7, 9, 10, 21, 22, 29, 31 |
| 1171        | Screw, 6-32 x 3/16 Fil 31  | 92115       | Screw, 8-32 Set 34  | 151346      | Screw, 6-40 x 3/8 Fil 34                        |
| 1178        | Screw, 2-56 x 7/16 Fil 30  | 93117       | Washer, Lock 3  | 151397      | Spring 17                                       |
| 1210        | Screw, 2-56 x 5/8 Fil 5  | 93118       | Washer, Lock 5, 30  | 151413      | Washer, Flat 10                                 |
| 2034        | Washer, Flat 6, 10, 20, 23   | 93356       | Washer, Felt 29   | 151603      | Spacer 17                                       |
| 2167        | Ball, Bearing 9  | 93984       | Washer, Lock 19   | 151610      | Washer, Flat 29                                 |
| 2191        | Washer, Lock 2, 7, 11, 12, 17, 19, 22, 31, 34                              | 98718       | Washer, Flat 19   | 151629      | Nut, 6-40 Lug 6, 13, 29                         |
| 2605        | Spring 20  | 100759      | Screw, 4-40 x 3/16 Flat 11  | 151630      | Screw, 6-40 x 1/4 Hex 9, 25                     |
| 2669        | Washer, Lock 6, 33   | 101386      | Spring 4, 17, 21, 22, 23, 24, 31  | 151631      | Screw, 6-40 x 5/16 Hex 3                        |
| 3598        | Nut, 6-40 Hex 2, 4, 6, 7, 8, 9, 10, 14, 16, 17, 18, 19, 20, 21, 22, 31, 32 | 104752      | Washer, Flat 21, 22, 31   | 151640      | Lever, Shoe Release 19                          |
| 3599        | Nut, 6-40 Hex 4, 6, 7, 9, 15, 20   | 104807      | Washer, Flat 7, 21, 25, 29  | 151658      | Screw, 6-40 x 5/16 Fil 11, 12                   |
| 3606        | Nut, 6-40 Hex 2, 8, 25   | 107116      | Washer, Lock 6  | 151693      | Screw, 6-40 x 9/16 Fil 7, 29                    |
| 3608        | Spring 6   | 110435      | Nut, 4-40 Hex 25  | 151722      | Screw, 6-40 x 3/16 Hex 3, 4                     |
| 3646        | Washer, Lock 2, 5  | 110743      | Washer, Lock 4, 6, 7, 9, 15, 20, 21, 22, 23, 25, 29, 31, 34               | 151723      | Screw, 10-32 x 3/8 Hex 33                       |
| 3864        | Spring 21  | 111410      | Washer, Flat 9, 19  | 151728      | Spring 11, 12, 19                               |
| 4703        | Spring 10  | 111640      | Screw, 2-56 x 7/32 Fil 3  | 151731      | Screw, 4-40 x 7/8 Fil 15                        |
| 4708        | Spring 29  | 112626      | Nut, 10-32 Hex 6  | 151737      | Screw, 4-40 x 11/64 Hex 6, 34                   |
| 7001        | Washer, Flat 19  | 112627      | Nut, 2-56 Hex 30  | 151880      | Nut, 4-40 Hex 9, 21, 22, 31                     |
| 7002        | Washer, Flat 2 thru 10, 12, 13, 15, 17, 18, 19, 20, 22, 23, 29, 30, 31, 32 | 112630      | Spring 3  | 152129      | Spring 22                                       |
| 7655        | Spring 23  | 112634      | Spring 6  | 152425      | Post, Spring 17                                 |
| 8330        | Washer, Flat 13, 29  | 114107      | Spring 10   | 152426      | Nut, 6-40 Self-Locking 17                       |
| 22746       | Spring 14  | 115594      | Nut, Speed 33   | 152441      | Washer, Flat 4                                  |
| 31636       | Spring 5, 20   | 116793      | Washer, Lock 34   | 152888      | Screw, 4-40 x 7/16 Hex 19                       |
| 33765       | Washer, Flat 3   | 119648      | Ring, Retaining 8, 10, 19, 22, 29, 31                                     | 152890      | Washer, Flat 21                                 |
| 41732       | Plate, Clamp 21  | 119649      | Ring, Retaining 3, 4, 7, 8, 9, 10, 13, 15, 16, 17, 20, 25, 32             | 152891      | Spring 31                                       |
| 42661       | Spring 10  | 119651      | Ring, Retaining 2, 3, 4, 6, 7, 8, 10, 11, 12, 23, 29, 31, 32              | 152893      | Screw, 4-40 x 1/4 Hex 6, 7, 15, 21, 23, 29      |
| 44048       | Washer, Flat 2, 5, 20  | 119652      | Ring, Retaining 4, 8, 10, 19, 25, 31, 32                                  | 153267      | Washer, Felt 6                                  |
| 45027       | Spring 8   | 119653      | Ring, Retaining 6, 20   | 153537      | Screw, 6-40 x 9/32 Hex 29                       |
| 45104       | Spring 29  | 119654      | Ring, Retaining 6, 20   | 153799      | Screw, 4-40 x 21/64 Hex 6, 15                   |
| 49054       | Screw, 2-56 x 3/16 Flat 6  | 121018      | Nut, 4-40 Hex 9   | 153817      | Screw, 4-40 x 3/8 Hex 4, 6, 21, 22, 31          |
| 49420       | Spring 15  | 121100      | Spring 17   | 155750      | Sleeve, 3/32 ID x 1/2" Lg, Insulating 21, 22    |
| 70388       | Spring 10  | 121630      | Washer, Flat 21   | 156169      | Washer, Felt 21                                 |
| 70466       | Spring 10  | 121923      | Spring 25   | 156509      | Washer, Flat 10                                 |
| 71073       | Washer, Flat 30  | 124177      | Washer, Lock 2, 3, 4, 7, 8, 9, 10, 14, 15, 16, 17, 18, 20, 21, 25, 29, 31 | 156536      | Screw, 4-40 x 1/8 Fil 9                         |
| 71681       | Spool, Ribbon 6  | 124612      | Screw, 8-32 x 1/2 Hex 2   | 156558      | Washer, Felt 10                                 |
| 72468       | Spring 23  | 124681      | Screw, 6-40 Set 4, 6, 12, 13, 16, 29                                      | 156572      | Washer, Felt 9                                  |
| 72509       | Washer, Lock 18  | 125011      | Washer, Flat 15, 29   | 156740      | Screw, 6-40 x 7/32 Hex 18, 20                   |
| 72563       | Washer, Felt 29  | 125015      | Washer, Flat 14, 16, 17, 18, 32   | 156768      | Screw, 8-32 x 9/32 Hex 34                       |
| 74547       | Collar 13  | 125181      | Screw, 2-56 x 3/8 Fil 16  | 157899      | Arm, NC Contact 15                              |
| 74700       | Spring 23  | 125206      | Screw, 6-32 x 5/8 Fil 11  | 158186      | Screw, 4-40 x 7/32 Fil 4                        |
| 74701       | Spring 10, 12  | 125252      | Spring 15   | 158189      | Washer, Felt 10                                 |
| 74722       | Washer, Flat 4   | 125802      | Washer, Flat 15   | 158772      | Screw, 4-40 x 5/8 Hex 21                        |
| 76099       | Washer, Flat 17  | 125928      | Washer, Flat 33   | 160455      | Spring 22                                       |
| 76422       | Spring 13, 22  | 128357      | Ring, Retaining 21, 29, 34  | 160626      | Insulator .031" Thk 30                          |
| 76461       | Washer, Flat 21, 25  | 138033      | Insulator, .031" Thk 5, 30  | 160627      | Bushing, Insulating 30                          |
| 78103       | Screw, 6-40 x 1-3/16 Hex 21  | 138034      | Plate, Clamp 5, 30  | 161346      | Washer, Felt 10                                 |
| 80945       | Spring 13  | 138538      | Fuse, SL-BL 2 Amp 35  | 161347      | Washer, Felt 16                                 |
| 81731       | Spring 8, 20   | 143306      | Fuse, SL-BL 1 Amp 35  | 162573      | Retainer 12                                     |
| 82392       | Shim, .004" Thk 31   | 150026      | Lever, Shoe Release 11, 12  | 162886      | Screw, 4-40 x 7/32 Hex 29                       |
| 82463       | Spring 30  | 150029      | Wick, Felt 11, 12, 18, 19   | 171227      | Spring, Contact 30                              |
| 82532       | Screw, 6-40 Shoulder 25  | 150040      | Screw, 6-40 x 5/8 Fil 13, 18  | 171235      | Spring, Contact 30                              |
| 82538       | Screw, 6-40 x 5/16 Hex 21, 31  | 150043      | Shoe, Secondary Clutch 11, 12, 18, 19                                     | 171236      | Spring, Contact 30                              |
| 83877       | Spring 17  | 150044      | Shoe, Primary Clutch 11, 12, 18, 19                                       | 171254      | Insulator, .015" Thk 30                         |
| 84226       | Spring 3, 20   |             |   | 171259      | Spring 22                                       |
| 84575       | Spring 3, 8, 10, 14  |             |   | 172591      | Spring, Contact Arm 15                          |
| 86283       | Spring 15  |             |   | 172993      | Spring 29                                       |
| 87398       | Washer, Flat 4   |             |   | 180044      | Terminal, Tab Type 22, 35                       |
|             |  |             |   | 180045      | Terminal, Tab Type 22, 35                       |

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| 180063      | Spring, Compression 32            | 180554      | Bushing 7                   | 180728      | Spring 17   |
| 180463      | Post, Bail, Pivot 10              | 180555      | Spring 7                    | 180740      | Bail 15   |
| 180464      | Pulley, Carriage Return Spring 10 | 180556      | Plate, Gauge 9              | 180741      | Shaft, Function 16,21   |
| 180466      | Ring, Retaining 9                 | 180557      | Lever w/Stud 8              | 180742      | Roller 16   |
| 180467      | Bearing, Ball 9                   | 180558      | Collar 8                    | 180743      | Bearing, Right 16   |
| 180468      | Bearing, Ball 9                   | 180559      | Shaft 8                     | 180744      | Collar 6,16   |
| 180469      | Link 8,9                          | 180562      | Link, Left Ribbon 7         | 180745      | Arm w/Stud 16   |
| 180470      | Roller 8                          | 180563      | Stud, Eccentric 7           | 180746      | Arm w/Bushing 11,12,16  |
| 180471      | Block 9                           | 180564      | Bracket, Lock 7             | 180748      | Arm w/Stud 16   |
| 180473      | Shaft 9                           | 180566      | Hub w/Pinion 9              | 180749      | Arm w/Stud 16   |
| 180474      | Stud 9                            | 180568      | Bracket, Guide 7            | 180750      | Arm w/Studs 16  |
| 180475      | Bushing 9                         | 180569      | Spring, Compression 7       | 180751      | Arm w/Studs 16  |
| 180476      | Screw, 6-40 Spl 8                 | 180571      | Plate 9                     | 180752      | Lever, Function 16  |
| 180477      | Bracket 8                         | 180574      | Stud, Eccentric 9           | 180754      | Hub 16  |
| 180478      | Guide, Nylon 8                    | 180575      | Bearing, Ball 9,16          | 180755      | Hub 16  |
| 180479      | Bracket 8,25                      | 180576      | Bearing, Ball 9             | 180761      | Ring, Retaining 16  |
| 180480      | Arm w/Stud 9                      | 180578      | Bracket w/Post 10           | 180763      | Link 23   |
| 180482      | Arm w/Shaft 7                     | 180579      | Bracket w/Hub 9             | 180767      | Ring, Retaining 13,15,23  |
| 180483      | Arm, Stop 8                       | 180580      | Lever w/Stud 8,9            | 180768      | Ring, Retaining 11,12   |
| 180484      | Arm, Stop 8                       | 180581      | Roller, Typewheel 7         | 180769      | Link, Left 23   |
| 180485      | Arm w/Spring 9                    | 180584      | Lever 9                     | 180770      | Link, Right 23  |
| 180486      | Link 8                            | 180585      | Spring 8                    | 180771      | Arm 15  |
| 180487      | Stud 9                            | 180586      | Sleeve, 5/32 ID x 21/32 Lg  | 180772      | Shaft 15  |
| 180488      | Shaft 7                           |             | Insulating 8,35             | 180773      | Plate 15  |
| 180489      | Lever w/Pin 6                     | 180591      | Spring 7                    | 180774      | Arm, Eccentric Follower 11,12   |
| 180491      | Shaft 9                           | 180595      | Screw, 4-40 Set 8           | 180776      | Bracket 32  |
| 180492      | Arm 8                             | 180598      | Typewheel, MA 26            | 180777      | Arm, Drive 16   |
| 180493      | Lever, Trip 8                     | 180606      | Bail 9                      | 180778      | Plate 15  |
| 180495      | Link, Ribbon 7                    | 180607      | Arm, Adjusting 9            | 180779      | Bracket 15  |
| 180496      | Arm, Stop 8                       | 180608      | Bracket, Left 2,5           | 180780      | Blade 23  |
| 180497      | Spring, Print Hammer 7            | 180610      | Shield 7                    | 180781      | Hub 15,23   |
| 180498      | Bracket 6                         | 180641      | Camsleeve 18                | 180782      | Shaft, Pivot 23   |
| 180500      | Frame 6,7,8,9                     | 180642      | Bar, Push 17                | 180783      | Castng, Function Box 15   |
| 180501      | Arm w/Stud 7,8                    | 180645      | Lever, Selector 17          | 180788      | Plate, Rear Rail 15,25  |
| 180502      | Head, Print Hammer 7              | 180646      | Lever, Shoe Release 18      | 180789      | Roller 15   |
| 180503      | Shaft w/Spacer 7,9                | 180648      | Arm, Follower 13            | 180791      | Arm w/Stud 15   |
| 180505      | Plate, Left Guide 7               | 180649      | Spring 17                   | 180792      | Pawl, Function 15   |
| 180506      | Plate, Right Guide 7              | 180654      | Knob, Range 18              | 180793      | Lever 24  |
| 180508      | Stud, Eccentric 8                 | 180655      | Plate, Side 17              | 180794      | Lever, Line Feed 23   |
| 180509      | Slide, #3 Pulse 8                 | 180657      | Bracket, Guide 17           | 180795      | Bracket, Spring 23  |
| 180510      | Slide, Common 8                   | 180658      | Shaft, Guide 17             | 180796      | Clamp 15  |
| 180511      | Slide, #1 & #2 Pulse 8            | 180661      | Bracket 18                  | 180797      | Clamp 16,23   |
| 180512      | Slide w/Plates 8                  | 180663      | Scale, Range 17             | 180798      | Screw, 8-32 Self-Tapping 2,5,6,10,11,12,13,14,15,16,19,20,23,31,32,34 |
| 180513      | Slide, #5 Pulse 8                 | 180667      | Plate w/Bushing 18          |             |   |
| 180514      | Slide, #4 Pulse 8                 | 180668      | Follower, Cam 18            | 180801      | Lever w/Bracket 24  |
| 180517      | Lever, Latch 8                    | 180669      | Lever, Spacing Lock 17      | 180806      | Camsleeve 11  |
| 180518      | Plate 7                           | 180671      | Lever, Start 17             | 180807      | Camsleeve 11,12   |
| 180519      | Rack 7                            | 180672      | Bail 17                     | 180808      | Spacer, .050" Thk 11  |
| 180520      | Arm 8                             | 180673      | Plate, Front 17,18          | 180809      | Arm 16  |
| 180521      | Slide, Print Suppression 8        | 180675      | Screw, #6 Self-Tapping 17   | 180813      | Pawl, Function 15   |
| 180522      | Bushing 8                         | 180676      | Nut, #6 Speed 17,19         | 180820      | Lever, Control 20,32  |
| 180526      | Bail w/Stud 9                     | 180677      | Arm, Trip 18                | 180821      | Lever w/Stud 20   |
| 180528      | Lever w/Hub 9                     | 180678      | Plate, Spring 17            | 180823      | Block, Contact 22   |
| 180534      | Plate, Guide 7                    | 180682      | Upstop 10                   | 180824      | Contact, Common 22  |
| 180537      | Link 8                            | 180684      | Lever, Latch 18             | 180826      | Lever, Detent 22  |
| 180538      | Shaft 8                           | 180685      | Nut, 6-40 Spl 18            | 180827      | Drum, Answer Back 22  |
| 180539      | Bail w/Stud 8                     | 180688      | Core, Magnet 17             | 180828      | Pawl, Feed 20   |
| 180540      | Bail, Print Hammer 7,8            | 180691      | Plate 17                    | 180829      | Screw, 4-40 Shoulder 20   |
| 180541      | Plate w/Posts 6,7                 | 180692      | Spring, Flat 17             | 180830      | Bracket 32  |
| 180543      | Base, Ribbon Unit 6               | 180704      | Armature 17                 | 180831      | Lever 32  |
| 180544      | Bail, Drive 10                    | 180710      | Plate w/Post 17             | 180832      | Link, Tie 32  |
| 180545      | Bracket 10                        | 180715      | Coil, Magnet 17             | 180833      | Bracket, Adjusting 32   |
| 180546      | Post 10                           | 180717      | Spring 17                   | 180834      | Bail, Trip 32   |
| 180547      | Stud, Eccentric 6                 | 180718      | Spring 18                   | 180835      | Pawl, AB Blocking 15  |
| 180548      | Plate 7                           | 180719      | Spring 17                   | 180836      | Lever, Blocking Function 24   |
| 180549      | Bracket 7                         | 180721      | Wick, Felt 17               | 180837      | Link, Blocking 20   |
| 180552      | Post 7                            | 180727      | Washer, Flat 17             |             |   |
| 180553      | Spring 9                          |             |                             |             |   |

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| 180842      | Spacer, .050" Thk 22            | 181001      | Bearing 11,12                  | 181093      | Bracket, Extension 6.   |
| 180843      | Lever, Trip 20,22               | 181002      | Bearing 11,12                  | 181094      | Bracket w/Post 10   |
| 180844      | Armature 21,22,31               | 181003      | Lever, Latch 13                | 181102      | Fastener, Screw 33  |
| 180847      | Bracket, Spring 21,22,31        | 181004      | Hub 13                         | 181103      | Cover, Base 33  |
| 180850      | Bracket, Magnet 21,22           | 181005      | Link, Carriage 10,11           | 181104      | Clip, Cable 21  |
| 180854      | Brace 22                        | 181006      | Bushing 13                     | 181109      | Mount, Vibration 33   |
| 180855      | Latch, Blocking 22              | 181007      | Shaft, Main 11,18              | 181111      | Pawl, Feed 6  |
| 180858      | Contact, Wire 22                | 181008      | Collar 11,12                   | 181113      | Spring, Compression 6   |
| 180860      | Spring 16,20,29                 | 181010      | Lever w/Stud 13                | 181114      | Lever 6   |
| 180861      | Spring 20                       | 181011      | Leve w/Nut 13                  | 181115      | Stud 6  |
| 180862      | Spring 22                       | 181012      | Spacer 13                      | 181116      | Arm, Reverse 6  |
| 180863      | Spring 15,20                    | 181013      | Spacer, .453" Thk 13           | 181117      | Pawl, Retaining 6   |
| 180864      | Spring, Extension 20            | 181014      | Grommet, Rubber 13             | 181118      | Spring 6  |
| 180865      | Coil, Adjusting 32              | 181015      | Gear, 35T 11,12                | 181119      | Spring 6  |
| 180874      | Strap, 4-1/2" Braided 32        | 181017      | Plate 13                       | 181120      | Spring, Compression 4,6   |
| 180920      | Shaft 14                        | 181018      | Shaft 13                       | 181121      | Pin 6   |
| 180922      | Spring 14                       | 181019      | Lever, Trip 13                 | 181122      | Disk 6  |
| 180923      | Bracket w/Studs 14              | 181020      | Lever 13                       | 181123      | Nut, 4-40 Spl 6   |
| 180925      | Clamp 14                        | 181021      | Spacer, .406" Thk 13           | 181124      | Post 6  |
| 180926      | Ring, Retaining 14              | 181022      | Bracket, Left 11,12,13         | 181125      | Ratchet, Left Ribbon 6  |
| 180927      | Ring, Retaining 13,14           | 181023      | Bracket, Right 13              | 181126      | Ratchet, Right Ribbon 6   |
| 180928      | Bail 32                         | 181028      | Camsleeve 11                   | 181129      | Ribbon w/Spool 6  |
| 180930      | Bearing 32                      | 181030      | Bracket w/Stud 2               | 181138      | Pad 33  |
| 180932      | Bar, #8-1 Code 14               | 181034      | Platen 2,25                    | 181151      | Fan 34  |
| 180933      | Bar, #8-2 Code 14               | 181037      | Bracket, Right 2               | 181164      | Shaft w/Link 3  |
| 180934      | Bar, #8-3 Code 14               | 181038      | Bracket, Left 2,5,9            | 181165      | Pawl, Feed 3  |
| 180935      | Bar, #8-4 Code 14               | 181039      | Knob, Platen 2                 | 181166      | Bracket, Line Feed 3  |
| 180936      | Bar, #8-5 Code 14               | 181040      | Pawl, Detent 2,4               | 181168      | Belecrank w/Studs 3   |
| 180937      | Bar, #8-6 Code 14               | 181041      | Retainer 2,4                   | 181172      | Lever, Function 24  |
| 180938      | Bar, #7 Code 14                 | 181042      | Tip, Rubber 3,25               | 181173      | Stud, Feed Pawl Stop 2  |
| 180939      | Bar, #8 Code 14                 | 181044      | Roller, Pressure 3             | 181174      | Guide 16  |
| 180947      | Bar, Pring Suppression Code 14  | 181045      | Post, Support 2,5,21           | 181175      | Plate, Stripper 3   |
| 180948      | Bar, Auto CR & EOL Bell Code 14 | 181048      | Bracket, Stop 2                | 181176      | Link, Adjusting 3   |
| 180949      | Bracket, Rear Tie 14            | 181049      | Arm, Right 3                   | 181178      | Bracket 32  |
| 180950      | Bracket, Front Tie 14,31        | 181050      | Arm, Left 3                    | 181179      | Lever, Blocking 23  |
| 180956      | Spring 4,14,29                  | 181051      | Bracket, Left 3                | 181191      | Spring, Compression 9   |
| 180957      | Bracket, Spring 14              | 181052      | Plate 2,25                     | 181193      | Cylinder 2,5  |
| 180958      | Nut, 6-40 Lug 17                | 181053      | Bail, Paper Straightener 3     | 181194      | Washer, Flat 9  |
| 180959      | Bracket 17                      | 181054      | Shaft, Pressure 3              | 181195      | Washer, Cup 9   |
| 180964      | Roller 19                       | 181055      | Bar 2,3                        | 181196      | Ring, Retaining 9   |
| 180967      | Shaft, Distributor 19           | 181056      | Plate, Pressure Roller Guide 3 | 181197      | Plate, Adjusting 2,5  |
| 180968      | Buffer 20                       | 181057      | Bracket, Right 3               | 181198      | Bumper 9  |
| 180969      | Bearing 19                      | 181058      | Plate, Paper Guide 3           | 181199      | Piston 9  |
| 180970      | Bearing 19                      | 181062      | Eccentric, Toggle Link 10      | 181203      | Washer, Flat 34   |
| 180971      | Shaft, Trip 20,22               | 181065      | Pawl, Check 10                 | 181204      | Washer, Flat 34   |
| 180972      | Clamp, Buffer 20                | 181066      | Shaft, Spacing Drum 6          | 181230      | Plate 10  |
| 180975      | Bracket w/Stud 32               | 181067      | Pawl, Feed 10                  | 181231      | Screw, 8-32 Self-Tapping 16, 21                                       |
| 180978      | Lever w/Stud 32                 | 181068      | Lever w/Post 10                | 181237      | Screw, 1/4-14 Self-Tapping 33   |
| 180979      | Brush, Carbon 19                | 181069      | Drum, Spacing 6                | 181240      | Screw w/Lockwasher, 6-40 x 3/16 Hex 2,5,10,15,17,23, 29,32            |
| 180980      | Holder, Brush 19                | 181070      | Lever, Suppression 10          | 181241      | Screw w/Lockwasher, 6-40 x 1/4 Hex 8,9,10,12,13,15,17, 20,25,29,30,34 |
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