INSTRUCTIONS FOR INSTALLING MODIFICATION KITS (172625, 176181 THROUGH 176197, 178568 THROUGH 178584, 306686 THROUGH 306702, 153926) TO CONVERT A MODEL 28 OR 35 FRICTION FEED PRINTER SET TO A SPROCKET FEED PRINTER SET AND FOR REPLACING THE 153771 THROUGH 153787 GUIDE BRACKET USING THE 159356 MODIFICATION KIT

1. GENERAL

   a. The 172625 modification kit contains common parts necessary for all widths of paper to convert a Model 28 or 35 Page Typing Unit from friction feed to sprocket feed. The 172625 modification kit which replaces the 152316 modification kit consists of:

   10  2191  Lockwasher  
   1   3640  Lockwasher  
   3   8330  Washer, Flat  
   1   55063 Spring  
   1   76800 Spring  
   1   80848 Spring  
   4   110434 Screw  
   8   110743 Lockwasher  
   8   125011 Washer, Flat  
   1   128357 Ring, Retainer  
   1   151660 Screw  
   1   150436 Bushing  
   2   151346 Screw  
   3   151629 Nut  
   3   151630 Screw  
   1   151632 Screw  
   1   151637 Screw  
   1   151657 Screw  
   1   152893 Screw  
   1   153676 Bail, Detent  
   1   153678 Bracket (with shaft)  
   1   153682 Bracket (right)  
   1   153683 Bracket (left)  
   2   153685 Arm, Stripper  
   1   153686 Bearing, Sleeve (right)  
   1   153687 Bearing, Sleeve (left)  
   1   153689 Gear, Spur - 33T  
   1   153690 Gear, Spur - 28T  
   1   153692 Gear, Spur - 33T  
   22  155855 Pin  
   1   157979 Detent, Toggle Link  
   1   153697 Bracket  
   1   153698 Cam, Feed (left)  
   1   153699 Cam, Feed (right)  
   1   332258 Shaft  
   2   153794 Plate, Adjusting  
   3   153799 Screw  
   1   153810 Ribbon Guide  
   2   153839 Screw  
   2   154290 Ring "O"  
   2   154358 Hub, Platen  
   1   154519 Latch  
   1   155565 Arm (right)  
   1   155566 Arm (left)  
   1   155896 Finger, Paper (left)  
   1   155897 Finger, Paper (right)  
   1   326007 Clamp  
   1   163959 Spring, Tension

   NOTE

   (For conversion from friction to sprocket) friction feed units equipped with the 179199 lever also require that this lever be replaced with a 163957 lever. This lever is not furnished and must be ordered separately.

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b. The 176181 through 176197 modification kits are intended for standard Model 28 units. While the 178568 through 178584 modification kits may be used for either Model 28 or 35 Wall Mounted units. The 306686 through 306702 modification kits are intended for standard Model 35 units.

NOTE

For purposes of brevity the 176181 through 176197, 178568 through 178584, and 306686 through 306702 modification kits will only be referred to as the "various paper width modification kits" through the remainder of this specification.

c. The various paper width modification kits when used in conjunction with the 153926 and 172625 modification kits, permit conversion of a Model 28 or 35 Friction Feed Printer Set into a sprocket feed printer set, capable of accommodating a particular width of continuous superfold form stationery depending on the specific paper width modification kit selected. The customer must also order the appropriate paper tray for the paper width he wishes to use. (See Table 2.)

d. The various paper width modification kits consist of the parts listed in Table 1.

e. The 159356 modification kit (included in the 172625 modification kit) replaces the 153771 through 153787 guide bracket on a Model 28 Sprocket Feed Typing Unit. This kit permits the typed copy to be viewed as it is being typed.

f. The 159356 modification kit consists of:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>110434</td>
<td>Screw</td>
</tr>
<tr>
<td>2</td>
<td>110743</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>4</td>
<td>125011</td>
<td>Washer, Flat</td>
</tr>
<tr>
<td>1</td>
<td>155565</td>
<td>Arm - Right</td>
</tr>
<tr>
<td></td>
<td>155566</td>
<td>Arm - Left</td>
</tr>
<tr>
<td></td>
<td>155896</td>
<td>Finger - Left</td>
</tr>
<tr>
<td></td>
<td>155897</td>
<td>Finger - Right</td>
</tr>
</tbody>
</table>

 g. The 153926 modification kit is required to adapt a Model 28 Cabinet to handle superfold form stationery. The 153926 modification kit consists of:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2191</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>1</td>
<td>3598</td>
<td>Nut</td>
</tr>
<tr>
<td>3</td>
<td>7002</td>
<td>Washer, Flat</td>
</tr>
<tr>
<td>1</td>
<td>7015</td>
<td>Plate, Nut</td>
</tr>
<tr>
<td></td>
<td>80481</td>
<td>Stud</td>
</tr>
<tr>
<td>2</td>
<td>151658</td>
<td>Screw</td>
</tr>
<tr>
<td>1</td>
<td>153830</td>
<td>Guide, Form</td>
</tr>
<tr>
<td>1</td>
<td>153833</td>
<td>Guide, Bracket</td>
</tr>
</tbody>
</table>

h. The 153905 (for units not equipped with the automatic CR-LF feature) or 153914 (for units equipped with the automatic CR-LF feature) modification kit is required to change the spacing feed for handling stationery less than 8-1/2 inches in width. (See Specification 5816S.)
i. The 152349** (Model 28) or the 192260** (Model 35) paper supply box and form accumulating shelf (for use only with floor cabinets), while not required for the conversion, will simplify handling of continuous superfold form stationery. (See Specification 5809S). The double asterisks (**) designates a two-letter suffix which indicates the paint finish. The following four standard wrinkle finishes are now available. Note: 192260 comes in HA to HZ smooth finish.

   AA - Black          AC - Light Brown
   AB - Gray-Green     AD - Dark Brown

j. For part numbers referred to and for parts ordering information see Teletype Model 28 Printer Parts Bulletin 1149B.

2. INSTALLATION

NOTE

References made to left or right, up or down, front or rear, etc., apply to unit in its normal operating position as viewed from the operator's position in front of the unit unless otherwise specified.

a. 172625 (with a 176181 through 176197, 178568 through 178584 or 306686 through 306702 (one required) modification kit, and with a 153726 through 153729, or 176911 through 176914 (one required) paper tray.

   (1) Remove the typing unit from the printer set, if previously mounted therein.

   (2) Remove the type box and ribbon spools. Remove the 150907 paper spindle if changing from friction to sprocket feed.

   (3) Remove and discard the following parts from the right rear side frame in the order listed:

   1  151346  Screw  2  3598 or Nut
       153839 or
   1  150040  Screw  2  125015  Spacer
       153841 or
   1  151693  Screw  1  85407  Spring (if present)
   3  2191   Lockwasher  1  150935  Plate (if present)

   (4) Remove and discard the following parts from the left rear side frame:

   1  151346  Screw (if present)  2  125015  Spacer
   1  74798  Screw (if present)  2  3598 or Nut
   1  3598   Nut (if present)  2  95030  Nut
   1  2191   Lockwasher  1  150903  Block
       151721 or
   2  151642  Screw  1  85407  Spring (if present)
(5) Remove and discard the following paper straightener parts:

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>151686</td>
<td>1</td>
<td>Screw</td>
</tr>
<tr>
<td>110743</td>
<td>4</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>125011</td>
<td>1</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>150816</td>
<td>1</td>
<td>Lever</td>
</tr>
<tr>
<td>150815</td>
<td>1</td>
<td>Bushing</td>
</tr>
<tr>
<td>74701</td>
<td>1</td>
<td>Spring</td>
</tr>
<tr>
<td>31636</td>
<td>1</td>
<td>Stud</td>
</tr>
<tr>
<td>110743</td>
<td>1</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>152832</td>
<td>1</td>
<td>Clip</td>
</tr>
<tr>
<td>153634</td>
<td>1</td>
<td>Shaft</td>
</tr>
<tr>
<td>150683</td>
<td>2</td>
<td>Collar</td>
</tr>
</tbody>
</table>

(6) Remove the following parts located above the plate; discard all except those marked "(retain):

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72468</td>
<td>1</td>
<td>Spring</td>
</tr>
<tr>
<td>151637</td>
<td>1</td>
<td>Screw (retain)</td>
</tr>
<tr>
<td>110743</td>
<td>1</td>
<td>Lockwasher (retain)</td>
</tr>
<tr>
<td>125802</td>
<td>1</td>
<td>Washer (if present)</td>
</tr>
<tr>
<td>125011</td>
<td>1</td>
<td>Washer (retain)</td>
</tr>
<tr>
<td>151703</td>
<td>1</td>
<td>Pin</td>
</tr>
<tr>
<td>150826</td>
<td>1</td>
<td>Paper Finger, Left</td>
</tr>
<tr>
<td>150803</td>
<td>1</td>
<td>Flat Spring</td>
</tr>
<tr>
<td>150804</td>
<td>1</td>
<td>Paper Finger, Right</td>
</tr>
<tr>
<td>150803</td>
<td>1</td>
<td>Flat Spring</td>
</tr>
<tr>
<td>150685</td>
<td>1</td>
<td>Plate w/Shaft</td>
</tr>
</tbody>
</table>

(7) Remove the following parts from the upper left frame:

Retain the following for reuse in Paragraph 2.a.(20).

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>151630</td>
<td>1</td>
<td>Screw</td>
</tr>
<tr>
<td>2191</td>
<td>1</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>150961</td>
<td>1</td>
<td>Bushing</td>
</tr>
<tr>
<td>150900</td>
<td>1</td>
<td>Detent Bail</td>
</tr>
<tr>
<td>150969</td>
<td>1</td>
<td>Torsion Spring</td>
</tr>
</tbody>
</table>

Note: Special units (LP68 and LP111) use a 164220 Torsion Spring, which should be retained and reused.

(8) Remove the platen assembly as follows, discard the platen assembly, and retain the other parts for reuse:

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>151073</td>
<td>2</td>
<td>Screw</td>
</tr>
<tr>
<td>110434</td>
<td>2</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>110743</td>
<td>2</td>
<td>Left Retainer</td>
</tr>
<tr>
<td>150720</td>
<td>2</td>
<td>Platen Assembly</td>
</tr>
</tbody>
</table>

(9) Remove and discard the following paper guide parts:

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>151692</td>
<td>4</td>
<td>Screw</td>
</tr>
<tr>
<td>2191</td>
<td>4</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>152539</td>
<td>1</td>
<td>Guide</td>
</tr>
<tr>
<td>150840</td>
<td>1</td>
<td>Guide Bracket</td>
</tr>
</tbody>
</table>
2 151657 Screw 2 3598 Nut
2 2191 Lockwasher

(10) Remove the 119652 retainer rings at the upper end of the 150386 and 150387 ribbon drive links for access to the following parts to be removed from the right frame. Discard all the following parts except those marked "(retain)"

151657 or
4 151658 Screw (retain) 1 150436 Bushing
4 2191 Lockwasher (retain) 1 150276 Lever
2 119651 Retainer Ring 1 125015 Washer
1 150270 Link 1 Pressure Roller
1 151657 Screw Assembly

(11) Replace the 152871 line feed bar bell crank spring with the 80848 spring.

(12) Mount the 153697 bracket, using the four mounting holes vacated by the pressure roller assembly with the four 151657 or 151658 screws and 2191 lockwashers previously removed.

(13) Replace 150934 or 153800 ribbon reverse detent cam, whichever is present, with the 157979 toggle link detent as follows:

(a) Rotate the printer shaft so that the ribbon feed units are in the maximum upper position.

(b) Remove the 3599 nut, 110743 lockwasher, 150355 spur gear, and 119651 retainer ring from the 152582 shaft. Remove and retain the two 1293 screws in the detent cam. Pull the shaft out of the right side frame to permit removal of the detent cam. Discard the detent cam.

(c) Install the 157979 toggle link detent on the 152582 shaft so that the toggle link side faces toward the right side of the printer and fasten in position with the two 1293 screws. Replace the 152582 shaft, 119651 retainer ring, 150355 spur gear, 110743 lockwasher, and 3599 nut.

(14) Replace the 150666 idler gear with the 153690 gear.

(15) Install the following parts on the rear typing unit frames:

1 153682 Right Bracket 1 153683 Left Bracket
1 153794 Plate 1 153794 Plate
1 151630 Screw, Hex 2 151630 Screw, Hex
1 151632 Screw, Hex 2 2191 Lockwasher
2 2191 Lockwasher
(16) Assemble the platen as follows:

(a) Slip the 153692 spur gear on the 332258 platen shaft. Secure with the 151346 screw and 2191 lockwasher. Slip on the 153687 bearing sleeve with the groove toward the gear.

(b) For the 172625 modification kit, assemble the 154290 "O" ring to the groove in the 154358 platen hub. Insert the 195855 pins (11) and position the pins (with the slot facing the pin side of the hub) to accept the cam, place a light coating of grease on the surface of the cam which contacts the pins, recheck position of the pins before proceeding to insert cam.

(c) Press the 153698 left cam into the greased hub. When the cam is fully seated it should be flush with the projecting hub. Do not force the cam in. If it does not go in freely repeat instructions from Paragraph 2.a.(16)(b). Add the 153689 spur gear, flat side toward the hub. Fasten with three 153799 screws, 110743 lockwashers, and 125011 washers. Wipe off excessive grease.

(d) Slip the sprocket assembly over the 332258 platen shaft and fasten with a 151346 screw, and 2191 lockwasher. Slip the 176221 through 176237 platen cylinder (one required) over the shaft and force it over the "O" ring against the stop on the platen hub.

NOTE

Apply a light film of oil on the "O" ring to facilitate assembly.

(e) Assemble the right hand sprocket as described in Paragraph 2.a.(16)(b) and (c), using the following parts and lining up the cam with the letter "R:" assemble to the shaft:

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>153700</td>
<td>1</td>
</tr>
<tr>
<td>154358</td>
<td>1</td>
</tr>
<tr>
<td>154290 &quot;O&quot; Ring</td>
<td>1</td>
</tr>
<tr>
<td>195855</td>
<td>11</td>
</tr>
<tr>
<td>153699</td>
<td>1</td>
</tr>
<tr>
<td>326007</td>
<td>1</td>
</tr>
</tbody>
</table>

1 152893 Screw
1 3640 Lockwasher
1 151629 Nut
1 151660 Screw
1 2191 Lockwasher
1 8330 Flat Washer

Place the 153686 right bearing sleeve on the shaft with the chamfer or "O" (stamped on the side of the bearing, on older units) facing the end of the shaft.

NOTE

The bearings are not concentric (like the 150714 bearings on friction feed units) and it is possible to install the 153686 bearings incorrectly. The wide part of each eccentric bearing should be toward the front of the unit.
(17) Install the platen assembly in the typing unit. Cam yokes must point up, and bushings must be aligned so that the rounded portion of the slot goes into the slot in the typing unit frames.

(18) Assemble the following platen retainer parts:

<table>
<thead>
<tr>
<th></th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>150719</td>
<td>Left Retainer</td>
</tr>
<tr>
<td>3</td>
<td>151073</td>
<td>Screw</td>
</tr>
<tr>
<td>3</td>
<td>110743</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>1</td>
<td>151637</td>
<td>Screw</td>
</tr>
<tr>
<td>1</td>
<td>150720</td>
<td>Right Retainer</td>
</tr>
<tr>
<td>1</td>
<td>125011</td>
<td>Washer</td>
</tr>
<tr>
<td>1</td>
<td>110743</td>
<td>Lockwasher</td>
</tr>
</tbody>
</table>

(19) Install the following paper finger parts:

<table>
<thead>
<tr>
<th></th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>155565</td>
<td>Right Arm</td>
</tr>
<tr>
<td>1</td>
<td>155566</td>
<td>Left Arm</td>
</tr>
<tr>
<td>1</td>
<td>155897</td>
<td>Right Paper Finger</td>
</tr>
<tr>
<td>1</td>
<td>155896</td>
<td>Left Paper Finger</td>
</tr>
<tr>
<td>4</td>
<td>110434</td>
<td>Screw</td>
</tr>
<tr>
<td>4</td>
<td>110743</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>4</td>
<td>125011</td>
<td>Washer</td>
</tr>
<tr>
<td>2</td>
<td>153839</td>
<td>Screw</td>
</tr>
<tr>
<td>1</td>
<td>154519</td>
<td>Latch</td>
</tr>
<tr>
<td>1</td>
<td>150436</td>
<td>Bushing</td>
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<tr>
<td>1</td>
<td>2191</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>2</td>
<td>2191</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>2</td>
<td>8330</td>
<td>Washer</td>
</tr>
<tr>
<td>2</td>
<td>151629</td>
<td>Nut</td>
</tr>
<tr>
<td>2</td>
<td>153685</td>
<td>Arm w/Hub</td>
</tr>
<tr>
<td>1</td>
<td>153678</td>
<td>Plate w/Shaft</td>
</tr>
<tr>
<td>1</td>
<td>128357</td>
<td>Retainer</td>
</tr>
<tr>
<td>1</td>
<td>55063</td>
<td>Spring</td>
</tr>
<tr>
<td>1</td>
<td>151657</td>
<td>Screw</td>
</tr>
<tr>
<td>1</td>
<td>76800</td>
<td>Spring</td>
</tr>
</tbody>
</table>

(20) Install the following platen detent parts:

<table>
<thead>
<tr>
<th></th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>153676</td>
<td>Detent Bail</td>
</tr>
<tr>
<td>1</td>
<td>163959</td>
<td>Torsion Spring</td>
</tr>
<tr>
<td>1</td>
<td>151630</td>
<td>Screw</td>
</tr>
<tr>
<td>1</td>
<td>2191</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>1</td>
<td>150961</td>
<td>Bushing</td>
</tr>
</tbody>
</table>

Note: Units with the improved manual platen line feed use a 163959 Torsion Spring, and do not need the 163959 Torsion Spring furnished as part of the kit.

(21) Clip in the 153726 through 153729 or 176911 through 176914 (one required) paper tray.

(22) Move the type box carriage to its extreme right-hand position. Hold the code bars in the marking position and rotate the main shaft so that the type box is in its uppermost position. Remove the retainer ring from the stud in the right-hand end of the type box carriage link and disengage the link from the carriage. Rotate the printer shaft so that the type box carriage is in its lowest position. Hold the ribbon guide forward and the ribbon reverse lever back and pull the carriage toward the right to disengage it from the carriage track. Replace the 152501 ribbon guide (if unit so equipped) with the 153810 ribbon guide furnished. Reassemble in the reverse order.

(23) Replace the ribbon spools and the type box.
(24) Substitute the 153652 through 153667 or 178551 through 178567 form guide (one required) included in the 176181 through 176197 or 178568 through 178584 (one required) modification kit, for the paper guide fastened to the lip of the small console lid or wall mounted cover. For kits 306686 through 306702 see Table 2. Secure with same mounting screws.

b. 176181 through 176197, 178568 through 178584 or 306686 through 306702 (one required) modification kit when changing from one width of stationery to a different width on sprocket feed printers.

NOTE

When using paper less than 4-1/4 inches in width, cut off one of the paper finger extensions; preferably the left, flush with the inside edge of the U-Form so that the remainder of the part will straddle the sprocket pins.

(1) Follow procedure in Paragraphs 2.a.(1), (2).

(2) Remove the 153726 through 153729, or 176911 through 176914, or 304772 through 304775 paper tray. On Model 35 units equipped with paper alarm parts, remove and retain the paper alarm parts prior to removing the paper tray.

(3) Remove the following paper finger parts:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>76800</td>
<td>Spring</td>
<td>55063</td>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>155565</td>
<td>Arm, Right (w/Paper Finger)</td>
<td>1</td>
<td>128357</td>
<td>Retainer</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>153685</td>
<td>Stripper</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>155566</td>
<td>Arm, Left (w/Paper Finger)</td>
<td>153678</td>
<td>Plate w/Shaft</td>
<td></td>
</tr>
</tbody>
</table>

(4) Remove and retain the following platen retainer parts:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>151073</td>
<td>Screw</td>
<td>1</td>
<td>151685</td>
<td>Screw</td>
</tr>
<tr>
<td>2</td>
<td>110743</td>
<td>Lockwasher</td>
<td>1</td>
<td>153688</td>
<td>Eccentric</td>
</tr>
<tr>
<td>1</td>
<td>150719</td>
<td>Left Retainer</td>
<td>1</td>
<td>125011</td>
<td>Washer</td>
</tr>
<tr>
<td>1</td>
<td>151073</td>
<td>Screw</td>
<td>1</td>
<td>110743</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>1</td>
<td>110743</td>
<td>Lockwasher</td>
<td>1</td>
<td>150720</td>
<td>Right Retainer</td>
</tr>
</tbody>
</table>

Remove the platen assembly from the typing unit.

(5) Disassemble the platen in the following order:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>153686</td>
<td>Right Bearing Sleeve</td>
<td>Loosen 1179 Clamp Screw and remove Right Sprocket Hub Assembly and the present Platen Cylinder.</td>
</tr>
<tr>
<td>1</td>
<td>151346</td>
<td>Screw</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2191</td>
<td>Lockwasher</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>7002</td>
<td>Washer</td>
<td></td>
</tr>
</tbody>
</table>
(6) Replace the present platen cylinder with the platen cylinder in the specific modification kit.

(7) Reassemble the platen assembly by reversing the order used in removing it.

(8) Follow procedure in Paragraph 2.a.(18).

(9) Assemble the following platen retainer parts:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>150719</td>
<td>Left Retainer</td>
</tr>
<tr>
<td>2</td>
<td>151073</td>
<td>Screw</td>
</tr>
<tr>
<td>1</td>
<td>110743</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>1</td>
<td>151685</td>
<td>Screw</td>
</tr>
<tr>
<td>2</td>
<td>110743</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>1</td>
<td>150720</td>
<td>Right Retainer</td>
</tr>
<tr>
<td>1</td>
<td>151073</td>
<td>Screw</td>
</tr>
<tr>
<td>1</td>
<td>153688</td>
<td>Eccentric Washer</td>
</tr>
<tr>
<td>1</td>
<td>125011</td>
<td>Washer</td>
</tr>
<tr>
<td>1</td>
<td>110743</td>
<td>Lockwasher</td>
</tr>
</tbody>
</table>

(10) Follow procedure in Paragraphs 2.a.(19), (21), (23).

(11) Follow procedure in Paragraph 2.a.(24).

c. 153926 modification kit

(1) Remove the typing unit from the cabinet.

(2) Remove the following parts which seal the paper emission slot in the cabinet. These parts are located below the cabinet terminal block and should be retained for future reconversion.

<table>
<thead>
<tr>
<th>Old Style</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>6345</td>
<td>Nut</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2191</td>
<td>Lockwasher</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>7002</td>
<td>Washer</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Style</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>344394</td>
<td>Form Slot Insert</td>
</tr>
</tbody>
</table>

(3) Install the 153926 modification kit as shown in Teletype parts bulletin 1149B.

NOTE

If the 153926 modification kit is installed into Cabinets LAC200** or LAC201** drill a second hole (.161" diam., - No. 20 drill) to mount the 153833 guide bracket. Use the 7015 nut plate as a template for locating this hole.

(4) Remove the 151545 paper guide mounted to the small lid of the cabinet and in its place install the 153652 through 153667 form guide furnished with the typing unit or with the 176181 through 176197 modification kit (one required).

d. 159356 modification kit

(1) Remove the 153771 through 153787 guide bracket by removing the 151073 screws and 110743 lockwashers, retain the two lockwashers.
(2) Loosen the 153839 screws mounting the 153721 and 153722 arms; remove the 128357 retainer ring, and the 55063 and 76800 springs from the 153678 bracket with shaft. Retain all parts.

(3) Remove the 153678 bracket with shaft, two 153685 strippers and 153721 and 153722 arms from the unit. Retain the bracket and strippers.

(4) Remove the 153839 screw, 8330 flat washer, 2191 lockwasher and 151629 special nut from the 153721 and 153722 arms, and assemble them correspondingly to the 155565 and 155566 arms.

NOTE

When using paper less than 4-1/4 inches in width, cut off one of the paper finger extensions; preferably the left, flush with the inside edge of the U-Form so that the remainder of the part will straddle the sprocket pins.

(5) Assemble the 155896 paper finger to the 155566 arm with two 110434 screws, 110743 lockwashers and 125011 flat washers, and assemble the 155897 paper finger to the 155565 arm with two 110434 screws, 110743 lockwashers and 125011 flat washers.

(6) Assemble the 128357 retainer ring, and the 55063 and 76800 springs to the 153678 bracket with shaft.

3. ADJUSTMENTS AND LUBRICATION

For standard adjustment and lubrication procedure refer to standardized information (for other than Bell System see Teletype Bulletin 217B).

4. MAINTENANCE

a. The following instructions are provided for lubrication of the sprocket hub assemblies which house the sprocket pins and cams or for replacement of pins or springs. Detailed instructions may be obtained by reversing assembly instructions in Paragraph 2.a.(18).

(1) Remove the guide bracket assembly.

(2) Remove the platen assembly.

(3) Remove sprocket hub assemblies from platen assembly.

(4) Remove the 157286 clamp and 153699 cam from assembly.
(5) Should a pin require replacement, replace the defective pin.

(6) The surface of the cam which contacts the pins should be given a light coat of grease.

(7) Reverse procedure in Paragraphs 4.a.(4) and (5).

(8) Repeat Paragraphs 4.a.(5) through (8) with left sprocket assembly.

(9) Reverse Paragraphs 4.a.(1) through (3).

(10) Refer to NOTE in paper guide adjustment.

6. PAPER HANDLING INFORMATION

The Model 28 Sprocket Feed Typing Unit is capable of reliably handling up to 12 copies of stapled continuous form stationery or up to six copies of unstapled form stationery.

a. For stapled stationery, place the form supply box on the floor behind the cabinet or on the shelf provided in the 152349** paper supply box and form accumulating shelf.

b. For unstapled stationery, place the form supply box on a platform not more than 18 inches below the paper admission slot or on the shelf provided in the 152349** paper supply box and form accumulating shelf.

* * *
TP152893 SCREW (4-40 by 1/4 hex)
TP3640 LOCKWASHER

TP326007 CLAMP PLATE

TP153699 FEED CAM

RIGHT FRAME

TP153686 RIGHT BEARING

TP151346 SCREW (6-40 by 3/8 fil)

TP332258 SHAFT

TP154290 "O" RING

TP154358 PLATEN HUB

TP151660 SCREW (6-40 by 7/8 fil)
TP2191 LOCKWASHER
TP8330 FLAT WASHER

TP151629 LUG NUT

NEW PARTS AND NEW MOUNTING ARRANGEMENT

Figure 1
<table>
<thead>
<tr>
<th>Modification Kits</th>
<th>Includes Form Guides</th>
<th>For Paper Width (In Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M28 Wall Mounted</td>
<td>M35 Standard</td>
</tr>
<tr>
<td>176181</td>
<td>178568</td>
<td>306702</td>
</tr>
<tr>
<td>176182</td>
<td>178569</td>
<td>+306701</td>
</tr>
<tr>
<td>176183</td>
<td>178570</td>
<td>306700</td>
</tr>
<tr>
<td>176184</td>
<td>178571</td>
<td>306699</td>
</tr>
<tr>
<td>176185</td>
<td>178572</td>
<td>306698</td>
</tr>
<tr>
<td>176186</td>
<td>178573</td>
<td>306697</td>
</tr>
<tr>
<td>176187</td>
<td>178574</td>
<td>306696</td>
</tr>
<tr>
<td>176188</td>
<td>178575</td>
<td>306695</td>
</tr>
<tr>
<td>176189</td>
<td>178576</td>
<td>306694</td>
</tr>
<tr>
<td>176190</td>
<td>178577</td>
<td>306693</td>
</tr>
<tr>
<td>176191</td>
<td>178578</td>
<td>306692</td>
</tr>
<tr>
<td>176192</td>
<td>178579</td>
<td>306691</td>
</tr>
<tr>
<td>176193</td>
<td>178580</td>
<td>306690</td>
</tr>
<tr>
<td>176194</td>
<td>178581</td>
<td>306689</td>
</tr>
<tr>
<td>176195</td>
<td>178582</td>
<td>306688</td>
</tr>
<tr>
<td>176196</td>
<td>178583</td>
<td>306687</td>
</tr>
<tr>
<td>176197</td>
<td>178584</td>
<td>306686</td>
</tr>
</tbody>
</table>

*Replaces the 192210 modification kit formerly furnished for early Model 35 units. The actual parts comprising both of these modification kits are identical. The modification kit part number and the 192208 form guide part number were changed to have this kit available in a series of unbroken part numbers.*

**TABLE 1**
NOTE

Each kit must be used in association with a particular paper tray which is mounted in the typing unit. The paper trays are common to a number of form widths and therefore, must be ordered separately. Tabulated below are the various widths of stationery together with the corresponding modification kits and paper trays.

<table>
<thead>
<tr>
<th>Paper Widths</th>
<th>Modification Kit</th>
<th>Paper Tray</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 Inches</td>
<td>306702</td>
<td>176181</td>
</tr>
<tr>
<td>8-1/2 Inches</td>
<td>306701</td>
<td>176182</td>
</tr>
<tr>
<td>8 Inches</td>
<td>306700</td>
<td>176183</td>
</tr>
<tr>
<td>7-1/2 Inches</td>
<td>306699</td>
<td>176184</td>
</tr>
<tr>
<td>7 Inches</td>
<td>306698</td>
<td>176185</td>
</tr>
<tr>
<td>6-1/2 Inches</td>
<td>306697</td>
<td>176186</td>
</tr>
<tr>
<td>6-3/8 Inches</td>
<td>306696</td>
<td>176187</td>
</tr>
<tr>
<td>6-1/4 Inches</td>
<td>306695</td>
<td>176188</td>
</tr>
<tr>
<td>6 Inches</td>
<td>306694</td>
<td>176189</td>
</tr>
<tr>
<td>5-3/4 Inches</td>
<td>306693</td>
<td>176190</td>
</tr>
<tr>
<td>5-1/2 Inches</td>
<td>306692</td>
<td>176191</td>
</tr>
<tr>
<td>5 Inches</td>
<td>306691</td>
<td>176192</td>
</tr>
<tr>
<td>4-1/2 Inches</td>
<td>306690</td>
<td>176193</td>
</tr>
<tr>
<td>4-5/16 Inches</td>
<td>306689</td>
<td>176194</td>
</tr>
<tr>
<td>4-1/4 Inches</td>
<td>306688</td>
<td>176195</td>
</tr>
<tr>
<td>4 Inches</td>
<td>306687</td>
<td>176196</td>
</tr>
<tr>
<td>3-5/8 Inches</td>
<td>306686</td>
<td>176197</td>
</tr>
</tbody>
</table>

*The new style paper tray provides greater stunt box cable clearance, and also has two mounting holes for mounting paper-out, and low paper alarm modification kits on Model 35 units. The paper trays are common to both Model 28, and 35 units.*

TABLE 2