43 5-LEVEL PAPER TAPE UNIT

DISASSEMBLY/REASSEMBLY

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1. GENERAL

1.01 The procedures provided in this section break the PTU down into subcomponents. The appropriate parts sections illustrate the arrangement of subcomponents and parts.

Caution: Remove all power from the PTU before performing any component replacement.

1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph.

1.03 When removing a major component or part from the PTU, do not pry or force parts to provide the necessary clearance for removal. Follow the removal procedure and note how each part is removed and the sequence of its removal so that proper reassembly can be accomplished. For reassembly, reverse the removal procedure except where different instructions are given.

1.04 Reference in the procedures to left and right and up or down and top or bottom, etc, refer to the paper tape unit in its normal operating position.

1.05 Refer to Maintenance Tools, Section 570-005-800 for a complete listing of the various types of hand tools available for maintenance of Teletype Corporation equipment. For a listing of the tools required to perform the disassembly/reassembly procedures, refer to 2. TOOLS REQUIRED.

1.06 All ordering numbers shown in this manual are Teletype Corporation part numbers.

1.07 Some parts that are not listed in the parts index are shown as necessary to the disassembly procedures such as screws, ring retainers, etc. Most of these parts are common to other Teletype Corporation product lines and, if needed, may already be available in field repair kits or can be ordered.

1.08 Containers and packing materials retained from maintenance spares should be saved and reused when returning defective components for repair.

1.09 Adjustment information is provided in Punch Unit adjustments and Spring Tensions, Section 574-505-700, and Reader Unit adjustments and Spring Tensions, Section 574-506-700.

Note: When ordering replaceable components, unless otherwise specified, prefix each part number with the letters “TP” (ie, TP410205).
2. TOOLS REQUIRED

2.01 The following tools may be required when performing the disassembly/reassembly procedure. Most of these items should normally be present in standard maintenance tool kits (refer to Section 570-005-800).

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TOOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>124682</td>
<td>Hex key wrench, 1/16 inch</td>
</tr>
<tr>
<td>104457</td>
<td>Hex key wrench (.050)</td>
</tr>
<tr>
<td>159841</td>
<td>Hex key wrench (.093)</td>
</tr>
<tr>
<td>100982</td>
<td>Screwdriver/w clip, 1/4 inch</td>
</tr>
<tr>
<td>89994</td>
<td>Assembly wrench, 1/4 inch</td>
</tr>
<tr>
<td>129534</td>
<td>Wrench, 3/16 x 1/4 open end</td>
</tr>
<tr>
<td>152835</td>
<td>Wrench, 5/16 x 3/8 open end</td>
</tr>
<tr>
<td>129536</td>
<td>Wrench, 7/16 x 1/2 open end</td>
</tr>
</tbody>
</table>

3. DISASSEMBLY/REASSEMBLY

Replacement of Fuses for Access to Variable Feature Switches

3.01 To replace fuses or gain access to variable feature switches:

1. Remove paper tape and spindle.
2. Remove screws.
3. Remove screws (Early Version)
4. Remove bustle.
5. Remove screws and plate.

F1 1.0A SLO-BLO (143306)

VARIABLE FEATURE-SWITCH

F2 1.0A (120139)
F3 0.25A (118510)
*F4 3.0A (171658) Late-Units
2.5A (321955) Early-Units

*When replacing fuses on early units, the 171658 (3.0A) fuse (for F4) should be used and labeled accordingly.
Punch and Reader Assembly with Motor

3.02 To remove punch and reader with motor:

Remove main cover, wind cover and chad box.

Remove main and wind cover.

1. Remove chad box.
   (Pull to left and up)

2. Remove three screws.

3. Remove three retaining rings.

4. Remove main and wind cover.

430618 securing main cover (2).
180675 securing wing cover (1).
Die iconn,ect cable connector P201 from logic card and lift out switch assembly.

Loosen screw (nut on later units) and remove ground strap running from punch frame (412390 strap).

Note: Steps 11 and 12 need no be performed to remove Punch and Reader.

Remove power supply ac cable connector (P-601).

Remove punch and reader assembly from housing. Lift straight up.

Remove cable connectors from logic card.

Remove 2 circuit card bracket screws.

Slide logic card rearward out of plastic guides and housing.

Remove relay cable connector located at front of power supply circuit card.

Note: During reassembly, be certain that the reader tight tape arm remains outside the opening in the cover.
410711 Logic Card

3.03 To remove the 410711 logic card assembly:

① Remove bustle and guard assembly. Perform 3.01, Steps 1 through 4.
② Remove covers. Perform 3.02, Steps 1 through 4.
③ Remove logic card. Perform 3.02, Steps 5, 6, 7, 11 and 12.

Power Supply and Rear Frame Assembly

3.04 To remove the power supply and rear frame assembly:

① Remove bustle and guard assembly. Perform 3.01, Steps 1 through 4.
② Remove covers and chad box. Perform 3.02, Steps 1 through 4.
③ Remove punch and reader assembly and logic card. Perform 3.02, Steps 5 through 12.

Remove 4 screws and slide out power supply and rear frame assembly.
Transport Assemblies

3.05 To remove transport assemblies:

1. Remove paper tape. Perform 3.01, Step 1.

2. Remove punch and reader assembly. Perform 3.02, Steps 1 through 10.

Steps 6 through 11 for Punch transport.

Steps 12 through 14 for Reader transport.
To remove punch transport assembly:

1. Remove retainer ring (119652) and shim.
2. Remove retainer ring (119649) spacer and felt washer (93758) from upper end of eccentric drive arm.
3. Loosen cable clamp screw and free transport coil cable from clamp.
4. Loosen setscrew on eccentric drive and remove assembly.  
   *Note:* When replacing, align setscrew with countersunk hole in shaft before tightening.
5. Remove "O" ring belt.
6. Disconnect transport connector.  
The transport can now be removed if necessary.

To remove reader transport assembly:

7. Remove retainer ring (119652) and shim.
8. Loosen cable clamp screw and free transport coil cable from clamp.
9. Disconnect transport connector from circuit card on underside of reader housing.  The transport can now be removed if necessary.
Punch Assembly

3.06 To remove punch assembly:

1. Perform paragraph 3.05 Steps 1, 2, 3, 6, 7, 9, 10 and 11.

2. Remove two remaining mounting screws. Move punch assembly to left away from center frame, disconnecting link from transport assembly. (Care should be taken not to lose shims on transport shaft.)

3. Disconnect two magnet bank cable connectors. (Part of 412325 Cable)

4. Loosen mounting screw and remove grounding strap. Remove mounting screw with cable clamp.

5. Disconnect punch sensor connector. (Part of 412325 Cable)

Note 1: In reassembly, the Feed Pawl and Ratchet Wheel Engagement adjustment must be made.

Note 2: In reassembly connect link to transport assembly while mounting punch to center frame.
Reader Assembly

3.07 To remove reader assembly

1. Perform paragraph 3.05, Steps 1, 2, 3, 12, 13, and 14.

2. Loosen mounting screw and free reader cable from cable clamp, and remove cable. (Part of 412324 Cable).

3. Remove three mounting screws (one with cable clamp) and move reader assembly away from center frame. (Care should be taken not to lose shims on transport shaft.)

Note: In reassembly, the Feed Pawl and Ratchet Wheel Engagement adjustment must be made.