#### **43 TELEPRINTER**

### DISASSEMBLY/REASSEMBLY

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### 1. GENERAL

1.01 This section provides disassembly and reassembly procedures for the 43 Teleprinters and their major components. 1.02 This section is reissued to include disassembly and reassembly procedures for the 5-level teleprinter and the tractor for 5- and 8-level teleprinter.

1.03 Disassembly and reassembly information for additional enclosures and paper handling parts is provided in the following paragraphs:

Part	Paragraph	
Bustle Cover (Sprocket (Pin) Feed	) 3.01	
Bustle Cover (Friction Feed)	3.01	
Bustle Cover (Tractor Feed)	3.01	
Deflector (Sprocket (Pin) Feed)	3.01	
Deflector (Tractor Feed)	3.01	
Paper Holder (Sprocket Feed)	3.01	
Paper Holder (Friction Feed)	3.01	
Paper Holder (Tractor Feed)	3.01	
Set Cover	3.04	
Rear Frame	3.06	

1.04 The procedures provided in this section break the terminal down into subcomponents. The appropriate parts section illustrates the arrangement of subcomponents and parts – Section 574-500-800, 43 Teleprinter 5- and 8-Level, Parts, and Section 574-503-800, 43 Enclosures and Paper Handling Parts.

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

1.05 When removing a major component or part from the terminal, 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.

1.06 Reference in the procedures to left and right and up or down and top or bottom, etc, refer to the 43 terminal in its normal operating position.

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### SECTION 574-500-720

1.07 Refer to Maintenance Tools, Section 574-005-800 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 and reassembly procedures, refer to 2. TOOLS REQUIRED.

1.08 When ordering replaceable components, unless otherwise specified, prefix each part number with the letters "TP" (ie, TP410205).

1.09 Some parts that are not listed in the parts sections 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.

1.10 The keyboard circuitry can be damaged by static discharge. The 346392 static discharge ground strap is available for use by service personnel. Maintenance spares are provided in antistatic bags which should be saved for reuse when returning components for repair.

1.11 Containers and packing materials retained from maintenance spares should be saved and reused when returning defective components for repair. 1.12 Adjustment information is provided in Section 574-501-700, 43 Friction Feed and Sprocket Feed Printer Adjustment and Spring Tension, Section 574-501-701, 43 Tractor Feed Printer Adjustment and Spring Tension and Section 574-503-700, 43 Enclosures and Paper Handling Adjustments.

## 2. TOOLS REQUIRED

2.01 The following tools may be required when performing the station disassembly and reassembly procedures. Most of these items should normally be present in standard maintenance tool kits.

Part No.

Tools

- 129534
   Wrench, Open End, 3/16 Inch and 1/4 Inch

   135676
   Handle

   135677
   Bit, 1/4 Inch Socket

   135678
   Bit, 5/16 Inch Socket
- 95368 Screwdriver, 1/8 Inch, 2 Inch Blade
- 100982 Screwdriver w/clip 1/4 Inch, 6 Inch Blade
- 346392 Strap, Static Discharge
- 407326 Extractor, I.C.

## 3. DISASSEMBLY/REASSEMBLY

## 153A1 TERMINAL DATA UNIT (TDU), 861B1 TERMINAL AUXILIARY UNIT (TAU), 410755 TER-MINAL AUXILIARY UNIT (TAU1) AND 411901 CONTROLLER CARD ASSEMBLY

- 3.01 To remove the terminal unit:
  - (a) Sprocket Feed











## SECTION 574-500-720

### 430700 or 430780 POWER SUPPLY

3.02 To remove power supply:

(1) <u>For Sprocket Feed:</u> Remove paper holder, defector, if present, and bustle cover. Perform 3.01 Steps 1 through 5. For Friction Feed: Remove paper holder and bustle cover. Perform 3.01, Steps 1 through 6.

For Tractor Feed: Remove Paper holder and bustle cover. Parform 3.01, Steps 1 through 4.



#### 120139 POWER SUPPLY FUSE

3.03 To remove the power supply fuse:

(1) For Sprocket Feed: Remove paper holder, deflector and bustle cover. Perform 3.01, steps 1 through 5.

For Friction Feed: Remove paper holder and bustle cover. Perform 3.01, Steps 1 through 6. For Tractor Feed: Remove paper holder and bustle cover. Perform 3.01, Steps 1 through 4.





## **43 KEYBOARDS**



Note 1: In reassembly, perform the <u>KEYBOARD TO COVER ALIGNMENT</u> adjustment.

*Note 2:* When replacing the cover or indicator scale, perform the <u>COLUMN INDICATOR POSITIONING</u> adjustment.

*Note 3*: Loose keyboards are shipped with 181240 screws and 346397 isolators furnished in a loose envelope. These parts must be assembled to the keyboard before installing into the printer side frames.

## 410710 ANSWER-BACK CARD

3.05 To remove the answer-back card:

(1) Remove power supply. Perform 3.02.

(2) Remove logic card TTL cable.



## 143307 LOGIC CARD FUSE

3.06 To remove the logic card fuse:

(1) <u>For Sprocket Feed</u>: Remove paper holder, deflector and bustle cover. Perform 3.01, Steps 1 through 5.

For Friction Feed: Remove paper holder and bustle cover. Perform 3.01, Steps 1 through 6. For Tractor Feed: Remove paper holder and bustle cover. Perform 3.01, Steps 1 through 4.

3) Remove two 198670 screws. if present (one each side). 2 )Disconnect cable plugs. Note: If 452811 cable is used, the word "TOP" stamped on the connectors face to the rear when properly connected. 4 Snap the spring clips out of place and move aside, releasing the rear frame. (Pry with screwdriver.) 6 Remove the logic card fuse. 5 Gently pull the rear frame to the rear while (Rear View) lifting to disengage the hook-shaped details at the top front of the rear plate. The hook-shaped details fit into the notches on the rear plate and hold the rear frame in place. Remove the rear frame assembly.

## LOGIC CARD



## PRINTER

A. Removal

3.08 To remove the printer:



Note: To replace the printer, perform 3.09.







# (10) Remove the keyboard. (Perform 3.04, Steps 3, 5, 6 and 8.)



Note: To replace the printer, perform 3.09.

- B. Replacement
- 3.09 To replace the printer:
  - (a) Sprocket and Friction Feed.
- 1) Install the keyboard, if previously removed.
- (2) Install the rear frame assembly, bustle cover and deflector, if present.
- (3) Push the printer and rear frame assembly into the housing through the opening in the rear of the housing. There are two molded guide rails in the bottom of the housing to steer the assembly into position.
- (4) Lock the printer and rear frame assembly into position. Insert a screwdriver into the square hole in the nut plate and gently twist (or pry) the screwdriver with enough force to draw the assembly forward.

Caution: Do not overtwist the screwdriver.

(5) Tighten the clamp screws.

*Note:* The two front clamps should be loosely fastened to the nut plate before the assembly is pushed into the housing. Position each clamp so that the front bushings (keyboard) protrude through the large holes in their respective clamps.

 $(\mathbf{6})$  Replace the paper separator and platen knobs.

 $(\mathbf{i})$  Replace the paper release (friction-feed only).

B) Replace the cover and paper holder.

(9) Perform the <u>KEYBOARD TO COVER ALIGNMENT</u> adjustment.

(b) Tractor Feed.

1) Reverse disassembly procedure.



(Right Front View)

### 430850 PRINT HEAD



Verify that print head cover is

attached securely to rubber grommets. (Push down until

secure.)

### B. Replacement

3.11 To replace the print head:

Warning: When handling loose print heads, care must be taken to prevent print head cable connector pins from being bent.



(Left View)



(Refer to How to Operate Manual)