

43 5-LEVEL PAPER TAPE UNIT

TROUBLESHOOTING

CONTENTS	PAGE
1. GENERAL	1
2. TROUBLESHOOTING FLOW DIAGRAM	2
3. TROUBLESHOOTING GUIDE.....	3

574-505-800, 574-506-800 and 574-508-800 Punch, Reader and Power Supply should be available.

1.08 Refer to Disassembly/Reassembly in Section 574-504-720 for component access.

1.09 For location and identification of station components, refer to Section 574-504-800.

1.10 When replacement of the Punch, Reader or Power Supply corrects the trouble, additional checks should be made to isolate and possibly correct the trouble without returning for repair.

1.11 When replacement of a component does not correct the trouble, the original component should be reinstalled before going to the next step of the trouble analysis. If there are no more directives provided, go to the last question.

1.12 When returned to the Western Electric Service Center for repair, the PTU or components should be packed in the container in which the replacement is received.

1.13 Components returnable for repair and referred to in this section for replacement are:

- 412280 Reader
- 412399 Punch
- 410711 Logic Card
- 412396 Power Supply

1.14 Before disconnecting cables or replacing circuit cards, turn off ac power. Make certain power cords are connected to a properly polarized and grounded ac outlet.

1.15 Refer to 2. TROUBLESHOOTING DIAGRAM for the intended flow of troubleshooting.

1.16 Troubles analysis is presented in the form of a "20 Questions" routine in 3. TROUBLESHOOTING GUIDE. The Guide, with questions and yes or no columns, should be used always starting with the first question and proceeding according to the "yes" or "no" directive.

1. GENERAL

1.01 This section provides troubleshooting information for the 43 Paper Tape Unit.

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

1.03 Troubleshooting is based on isolation of troubles to major components and the correction of troubles by replacement of these components or by reference to the component troubleshooting paragraphs in the related component parts of this manual.

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

1.04 Component troubleshooting sections are:

- 574-505-300 Punch
- 574-506-300 Reader
- 574-508-300 Power Supply

1.05 Trouble isolation provided in this section is intended for use by the craftsperson at the same location as the station. Troubles may occur either during an installation, a routine maintenance visit or as the result of a customer trouble report.

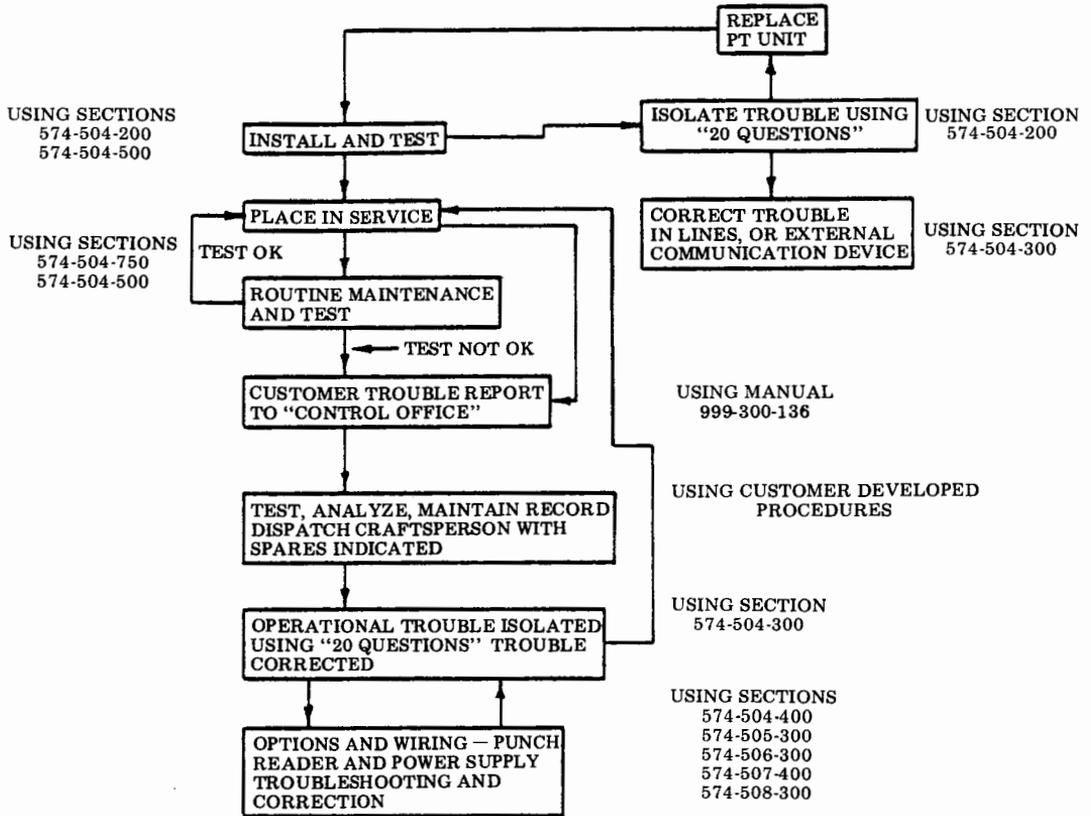
1.06 Trouble isolation for the attendant is provided in the How To Operate Manual 999-300-136.

1.07 To facilitate trouble correction, the recommended maintenance spares, as listed, should be available. In addition, parts for the repair of components as listed in Sections

SECTION 574-504-300

Note: When ordering replaceable parts, unless otherwise specified prefix each part number with the letters "TP" (ie, TP430047).

2. TROUBLESHOOTING FLOW DIAGRAM



3. TROUBLESHOOTING GUIDE

QUESTION	YES	NO
1. Is green power indicator lamp lit? (Power available, ac cord plugged in, cover on, power switch On).	Go to 1-C	Go to 1-A
1A Is there any indication of power in the set? (lamps lit, motor starts when power turned on)	Go to 1-C	Check fuses F1, F2, F3, F4. Replace if blown. Go to 1-B Check mode switch. Replace if defective.
1B Do indicators now light? Does motor start?	Original trouble	Check cable connections. If power light is On and motor does not start, check motor relay and its connector at power supply cord. Replace motor start relay. Replace power supply. Replace motor assembly.
1C Punch On and back to Auto (PTR - OFF/LOCAL, SPA1 - 4 closed) Does punch indicator lamp light?	Go to 2	Check lamp and switch. Replace mode switch. Replace logic card.
2. Can tape be threaded into punch?	Go to 3	Remove chad from chute and punch block. Go to punch troubleshooting.
3. Simulate low tape Does low tape conditions cause punch lamp to blink?	Go to 4	Go to Section 574-508-700 and Section 574-509-700 (Adj. for Low Tape Switch and Tape Arm). Go to Section 574-508-300 (Power Supply Troubleshooting).
4. Does punch feed tape with only feed holes perforated, when Feed switch is operated? (Punch Off)	Go to 5	Go to punch troubleshooting. Replace logic card.
5. Does unit reverse feed tape properly when Back Space is operated?	Go to 6	Go to punch troubleshooting. Replace logic card.

3. TROUBLESHOOTING GUIDE (Contd)

QUESTION	YES	NO
6. Does unit perforate characters properly (use self-test — SPA 1-3)	Go to 7	Go to Punch troubleshooting. Replace logic card. Check Variable Feature 455. Check Variable Feature switch.
7. Are perforations straight (no wavering) with respect to edge of tape?	Go to 8	Go to Punch troubleshooting.
8. Do perforations meet 10 to the inch?	Go to 9	Go to Punch troubleshooting and adjustments.
9. Does Punch intermittently feed?	Go to punch troubleshooting	Go to 10
10. Does operation of tight tape arm cause transmission to stop and reader lamp to blink? (Reader on and tape in gate)	Go to 11	Go to Reader troubleshooting. Replace reader. Replace logic card. Replace mode switch.
11. Does operations of tape-out switch cause transmission to stop and reader lamp to blink?	Go to 12	Check switch adjustment. Go to Reader troubleshooting. Replace reader. Replace logic card.
12. Does reader step and sense characters in tape properly (tape which is checked good for 10 to the inch)?	Go to 13	Check for paper dust on windows. Go to Reader troubleshooting. Replace reader. Replace logic card.
13. Does reader step and sense character-at-a-time properly when Step and Skip switches are operated?	Go to 14	Go to Reader troubleshooting. Replace mode switch. Replace logic card.
14. Is sent data received by remote terminal?	Go to 15	Check interface. Check external equipment.
15. Is data sent from remote terminal received?	Go to 16	Check interface. Check external equipment.
16. Are data messages properly sent and received in normal on-line mode?	Place in service	Check user programmable options. Check PTU Self-Test. If Self-Test is OK check external equipment.