

43 FRICTION FEED AND SPROCKET FEED PRINTER

TROUBLESHOOTING

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1. GENERAL

1.01 This section provides troubleshooting information for the 43 Printer, Friction Feed and Sprocket (Pin) Feed.

1.02 This section is reissued to change the title.

1.03 Printer troubleshooting is initiated either by the 43 Teleprinter Basic KSR or RO Troubleshooting Sections 574-500-300 and 574-500-301 or when trouble in the printer is suspected from symptoms observed.

1.04 Analysis in this section is limited to isolation of the trouble within the printer up to its electrical interface to the logic card. The 43 printer must be tested as part of a 43 Teleprinter Basic KSR or RO Station. Refer to Section 574-500-500 or 574-500-501. Where

analysis indicates the trouble is not in the printer, return to the station section for further analysis.

1.05 When ordering replaceable components, unless otherwise specified, prefix each part number with the letters "TP" (ie, TP410355).

1.06 The 430850 print head is returnable to Western Electric Company Service Center for repair.

1.07 Isolation and correction of troubles is based on electrical checks, parts replacement or adjustments.

Reference Sections are:

- 574-501-400 Wiring
- 574-501-700 Adjustments and Spring Tensions
- 574-501-720 Disassembly/Reassembly
- 574-501-800 Parts

1.08 Trouble analysis is presented in the form of a "20 Questions" routine in 2. 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.

2. TROUBLESHOOTING GUIDE

QUESTION	YES	NO
1. Does test message print and paper advance properly while PRINTER TEST key is depressed (or No. 2 switch on logic card is operated on)?	Go to 2.	Go to 1a.
1a. Is red lamp on power supply lit?	Go to 1b.	Go to Teleprinter Troubleshooting. Check circuit that failed for shorts.

QUESTION	YES	NO
1b. Does anything print or perform?	Go to 1c.	Go to Teleprinter Troubleshooting.
1c. Does carriage space and return properly?	Go to 1d.	<p>Check for mechanical bind by moving carriage manually with power off.</p> <p>Check for proper spacing belt spring tension.</p> <p>Check for proper lead screw lubrication.</p> <p>Check continuity of spacing motor and encoder.</p> <p>Check switch No. 1 on print head.</p> <p>Replace motor and/or encoder or cable.</p> <p>Replace lead screw nut.</p>
1d. Does paper advance properly (successive lines uniformly spaced)?	Go to 1e.	<p>Check line feed belt tension.</p> <p>Check for mechanical bind by rotating platen manually with power off.</p> <p>Check <u>PLATEN END PLAY</u> adjustment.</p> <p>Check <u>LINE FEED FOL-LOWER PULLEY STOP BRACKET</u> and <u>PRESSURE ROLLER BAIL</u> adjustments (friction feed).</p> <p>With power on (reset) check platen detenting through full rotation by turning platen knob.</p> <p>Check continuity of line feed motor.</p> <p>Replace motor or cable.</p>
1e. Sprocket Feed — Do sprocket pins on platen line up with paper and with paper guides?	Go to 1f.	<p>Check <u>LEFT AND RIGHT SPROCKET</u> adjustment.</p> <p>Check <u>LEFT AND RIGHT PAPER GUIDE</u> adjustment.</p>
1f. Are any characters printed?	Go to 1g.	<p>Check continuity of print head and cable.</p> <p>Go to Teleprinter Troubleshooting.</p>

QUESTION	YES	NO
1g. Are any dots missing from printed characters?	<p>Check continuity of associated print magnet.</p> <p>Check <u>PRINT HEAD ARMATURE</u> adjustment.</p> <p>Replace print head or cable.</p>	Go to 1h.
1h. Are any dots noticeably out of line on characters with vertical segments?	Replace print head.	Go to 1i.
1i. Is proper print density obtained (good ribbon, proper multicopy paper — see Section 570-008-010)?	Go to 1j.	<p>Check <u>PRINT HEAD TO PLATEN</u> adjustment.</p> <p>With power off and carriage moved manually, check that ribbon moves with carriage without slipping during return and does not move when carriage is moved to the right.</p> <p>Check carriage and left bracket ribbon rollers for “one way” rotation.</p>
1j. Sprocket Feed -- Does printed copy align properly with edge of paper (prints equally on each side of page perforation)?	<p>Undefined problem during <u>PRINTER TEST</u>.</p> <p>Go to Teleprinter Troubleshooting.</p>	<p>Check <u>PRINTED LINE POSITION</u> adjustment.</p> <p>Check <u>LEFT-HAND MARGIN</u> adjustment.</p>
2. Did bell ring during <u>PRINTER TEST</u> ?	Go to 3.	Go to 2a.
2a. Does bell ring under any conditions (<u>CTRL G RH</u> margin, etc)?	Go to Teleprinter Troubleshooting.	<p>Check bell coil and cable continuity.</p> <p>Check for freedom of bell plunger.</p>
3. Sprocket Feed -- Does <u>ALARM</u> indicator light when a paper-out condition is sensed?	<p>Undefined trouble.</p> <p>Go to Teleprinter Troubleshooting.</p>	<p>Check continuity of paper-out cable and contacts.</p> <p>Check <u>PAPER ALARM CONTACT</u> adjustment.</p>