

43 BASIC KEYBOARD
TROUBLESHOOTING

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1. GENERAL	
1.01 This section provides troubleshooting information for the 43 keyboard (KSR and RO).	
1.02 This section is reissued to change the title and change references from opcon to keyboard.	
1.03 Keyboard troubleshooting is initiated by the 43 Basic KSR Teleprinter or 43 RO Teleprinter Troubleshooting Sections 574-500-300 and 574-500-301 or when trouble in the keyboard is suspected from symptoms observed.	
1.04 Analysis in this section is limited to isolating the trouble within the keyboard up to its electrical interface at the logic card. The 43 keyboard must be tested as part of the 43 Basic KSR or RO Teleprinter Station. Refer to Section 574-500-500 and Section 574-500-501. Where analysis indicates the trouble is not in the keyboard, return to the Teleprinter Troubleshooting Section 574-500-300 or Section 574-500-301 for further analysis.	

1.05 When a trouble is verified to be in the keyboard (by replacement of the keyboard) this section should be used to help isolate the trouble to any replaceable components to correct the trouble.

1.06 Troubleshooting procedures for the 50K 122/AAE and AAF unitized keyboards are not provided since these keyboards are not field serviceable. They are returnable for repair. See 1.07.

1.07 The keyboards are returnable to the Western Electric Service Center for repair as a unit. Pack in carton (KSR keyboards using conductive plastic bag) that was used to pack replacement keyboard. High voltage static discharge can damage KSR keyboard circuitry. The 346392 wrist strap is available to ground service personnel.

1.08 Isolation and correction of trouble is based on electrical and mechanical checks and parts replacement.

Reference sections are:

574-502-400	Wiring
574-502-720	Disassembly/Reassembly
574-502-800	Parts

1.09 Trouble analysis is presented in the form of a "20 Questions" type of routine in Paragraph 2. TROUBLESHOOTING GUIDE. The guide, with questions and yes and no columns, should be used always starting with the first question and proceeding according to the "yes" or "no" directive.

2. TROUBLESHOOTING

TROUBLESHOOTING GUIDE (KSR Keyboard)

QUESTION	YES	NO
1. Are any of the communication mode indicators: LOCAL (LOCAL-TALK), DATA, TERM READY (AUTO ANSW) lit? (Power on, red light in power supply lit.)	Go to 2.	Check continuity through key-lamp indicator common to -12 V.
2. Do any indicators fail to light properly?	Go to 2a.	Go to 3.
2a. Do any keys on the keyboard generate characters?	<i>Note:</i> If indicators light when depressed but not under all its conditions, go to KSR Teleprinter Troubleshooting. Verify proper voltage at circuit card test points. Replace keyswitch or cable.	Check dc supply to keyboard at circuit card test points. Check cable.
3. Do any latching keys fail to latch down when depressed or release up when depressed again? (CAPS LOCK, PARITY, DUPLEX, or CPS) Do any other keys (except ALARM) fail to snap down when depressed or release up when released?	Replace defective key-switch.	Go to 4.
4. Does any keyboard key fail to generate the proper character or function?	Go to 4a.	Go to 5.
4a. Does the key fail in all modes (Shift, Unshift, Ctrl, Caps Lock)?	Replace keyswitch.	Replace keyboard.
5. Do any of the latching type keys (PARITY, DUPLEX, CPS) or PRINTER TEST key fail to operate?	Check continuity through switch. Replace keyswitch or cable.	Go to 6.
6. Does ALARM indicator light when cover is opened?	Undefined trouble. Go to KSR Teleprinter Troubleshooting.	Check continuity through Interlock keyswitch. Check fit of cover actuating button.

TROUBLESHOOTING GUIDE (RO Keyboard)

QUESTION	YES	NO
1. Are any of the communication mode indicators (TERM READY, DATA) lit? (Power on, red light in power supply lit.)	Go to 2.	Check continuity through key-lamp indicator common to -12 V.
2. Do any indicators fail to light properly?	Verify proper voltage at circuit card test points. Replace keyswitch or cable.	Go to 3.
3. Does the PRINTER TEST or RESET key fail to snap down when depressed or release up when released?	Replace defective key-switch.	Go to 4.
4. Does the PRINTER TEST or RESET key fail to generate the proper character or function.	Check continuity through switch. Replace keyswitch or cable.	Go to 5.
5. Does ALARM indicator light when cover is opened?	Undefined trouble. Go to RO Teleprinter Troubleshooting.	Check continuity through Interlock keyswitch. Check fit of cover actuating button.