43 OPERATOR CONSOLE

TROUBLESHOOTING

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1. GENERAL

1.01   This section provides troubleshooting information for the 43 operator console (opcon).

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

1.03   Opcon troubleshooting is initiated by the 43 KSR troubleshooting Section 574-500-300 or when trouble in the opcon is suspected from symptoms observed.

1.04   Analysis in this section is limited to isolating the trouble within the opcon up to its electrical interface at the logic card. The 43 opcon must be tested as part of a 43 Basic KSR Teleprinter Station. Refer to Section 574-500-500. Where analysis indicates the trouble is not in the opcon, return to the Station Troubleshooting Section 574-400-300 for further analysis.

1.05   When a trouble is verified to be in the opcon (by replacement of the opcon) this section should be used to help isolate the trouble to any replaceable components to correct the trouble. The opcon is returnable to the Western Electric Company Service Center for repair as a unit 43K101/CAA. Pack in carton (using conductive plastic bag) that was used to pack replacement opcon. High voltage static discharge can damage opcon circuitry. The 346392 wrist strap is available to ground service personnel.

1.06   Isolation and correction of troubles 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

1.07   Trouble analysis is presented in the form of a "20 Questions" routine in 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 GUIDE

	QUESTION	YES	NO
1.	Are any of the communication mode indicators (LOCAL TALK, DATA, 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.

QUESTION	YES	NO
2a. Do any keys on the opcon generate characters?	*Note:* If indicators light when depressed but not under all its conditions, go to Station Trouble-shooting. Verify proper voltage at circuit card test points. Replace keyswitch or cable.	Check dc supply to opcon 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 keyswitch.	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 opcon.
5. Do any of the latching type keys (PARITY, DUPLEX, CPS) or PRINTER TEST keys 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 Station Trouble-shooting.	Check continuity through interlock keyswitch. Check fit of cover actuating button.