

S E R V I C E N O T E

SUPERSEDES: NONE

HP E5100A/B Network Analyzer

Serial Numbers: HP E5100A : JP1KC00000 / JP4KC00904
 HP E5100B : JP1KC00000 / JP4KC00266

Monochrome LCD may become difficult to read due to loss of brightness

To Be Performed By: HP-Qualified Personnel

Parts Required:

HP P/N	Description	Quantity
1990-1912	Monochrome LCD Assembly	1
0460-1029	Adhesive Cushion Tape	50 cm

Tools Required

- Screwdriver(+),pt size #1(small)
- Screwdriver(+),pt size #2(medium)
- Soldering iron
- Solder
- Jumper wire (It has enough continuity.)

Continued

DATE: October 1997

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 2.0 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: HM	ENTITY: 3355	HP RESPONSIBLE UNTIL: October 1999	
ADDITIONAL INFORMATION:			



Situation:

The life span of the LCD is shortened due to excessive back-light display current.

Solution / Action:

This problem is solved by doing the following 2 actions

- Replace the Monochrome LCD.
- Modify the J20 connector which located on the A20 mother board.

Replace the Monochrome LCD.

1. Remove the outer cover.
 - ✎ Disconnect the power cable.
 - ✎ Remove the four rear feet.
 - ✎ Remove the two outer cover screws from the rear panel.
 - ✎ Remove the side strap.
 - ✎ Slide off the outer cover toward the rear.
2. Remove the Front panel.
 - ✎ Remove the five screws, which fasten the front panel to the frame, from both sides of the front panel.
 - ✎ Gradually press the front panel assembly from the inside towards the front, and remove the front panel.
 - ✎ Disconnect the cable connected to the A20 board and power supply.
3. Remove the LCD Display Assembly.
 - ✎ Remove the two screws which hold the LCD display assembly.
4. Remove the LCD Display.
 - ✎ Remove the four screws which hold the LCD display to LCD display assembly.
 - ✎ Disconnect the cables connected to the LCD display assembly.
5. Refer to the original LCD display, attach the adhesive cushion tape to encircle the front surface of the new LCD display.
6. Replacing the new LCD display.
 - ✎ Connect the cables to LCD display assembly.
7. Fix the new LCD display to LCD display assembly by tightening the four screws.
8. Fix the LCD display assembly to front panel by tightening the two screws.
9. Connect cables to A20 board and power supply, and install the front panel assembly to the frame by tightening five screws from both sides of the front panel.

Modify the J20 connector.

The J20 connector is located on the A20 mother board, and it has six terminals, as shown in Figure 1.

1. The second and the third terminal from line sw side should be soldered to be shorted with jumper wire. This modification is for reducing the back-light display current, resulting the life span of the LCD display will be extended.
2. Install the outer cover, the strap and the rear feet by tightening the screws.
3. Inspect the power on sequence.

Bottom View of E5100A/B

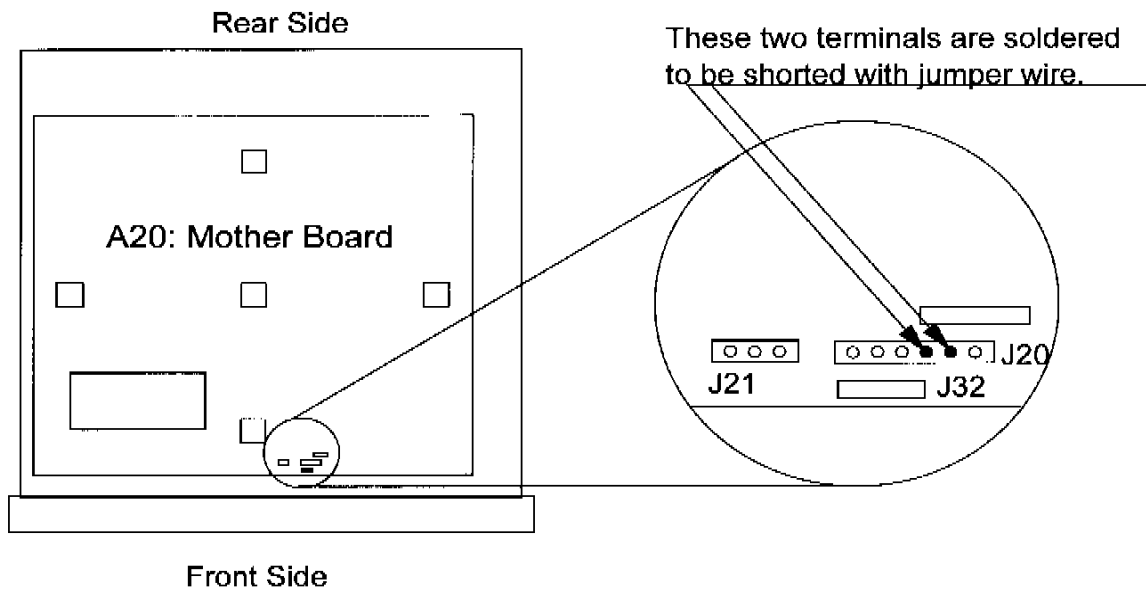


Figure 1.
J20 Connector