

E5100B-33D

S E R V I C E N O T E

Supersedes:
E5100B-33C

Agilent E5100B Network Analyzer

Serial Numbers: See Solution / Action

Part number changes for color LCD and motherboard

Parts Required:
See Solution / Action

To Be Performed By: Agilent-Qualified Personnel

The change from E5100B-33B to E5100B-33C is as follows.

- Due to the old mother board assy (E5100-66520) discontinuance at the supplier, though only the old mother board needs to be repaired, LCD assy must be replaced for JP1KC00101 to JP5KC00906.

The change from E5100B-33B to E5100B-33C is as follows.

- Part number and qty-per correction for cushion of motherboard.

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

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ADDITIONAL INFORMATION:

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Situation:

The color LCD used in the E5100B was obsoleted and replaced with a new color LCD. The old LCD is not available any more. When the LCD is defective, use new replacement LCD P/N 2090-0379. The new LCD has a different assembly size from old one and is used with a new inverter board for backlight. Some other parts are additionally required for replacing the LCD depending on instrument serial number.

(See service note E5100A-33A for the E5100A)

New motherboard is also set up for installation of the new LCD in the instrument. Unless the new LCD is combined with the correct motherboard, the instrument does not work normally (It can not respond to "BRIGHT OFF" command.)

Solution/Action:

When replacing the color LCD or motherboard assembly, use the appropriate replacement parts and assemblies for the instruments with serial numbers shown below:

1. Parts required when replacing only Color LCD.(See figures for the new color LCD replacement procedure)

Serial number	Part number	Qty	Description
JP1KC00101 to JP5KC00906	2090-0379	1	COLOR LCD
	E5000-04011	1	COVER LCD
	E5000-61640	1	WIRE ASSY INVERTER
	E5000-04002	1	COVER INVERTER
	E5000-24004	2	STANDOFF
	0950-3814	1	INVERTER BOARD
	E5100-66570	1	LCD CABLE TRANSFER
	8120-8409	1	RIBBON CABLE
	1400-0611C	1	CLAMP CABLE
	0515-1550	2	SCREW M3-L
	0515-0922C	2	SCREW M2.5-L8
	1400-1334	1	CLAMP CABLE
	E5100-66521	1	NEW MOTHERBOARD ASSY
JP5KC00907 to JP5KC01085 MY40500101 to MY40500128	0403-0424	7	CUSHION OF MOTHERBOARD
	2090-0379	1	COLOR LCD
	E5000-04011	1	COVER LCD
	E5000-61640	1	WIRE ASSY INVERTER
	E5000-04002	1	COVER INVERTER
	E5000-24004	2	STANDOFF
	0950-3814	1	INVERTER BOARD
	E5100-66570	1	LCD CABLE TRANSFER
	8120-8409	1	RIBBON CABLE
	1400-0611C	1	CLAMP CABLE
	0515-1550	2	SCREW M3-L
	0515-0922C	2	SCREW M2.5-L8
	1400-1334	1	CLAMP CABLE
JP5KC01086 and Above MY40500129 and Above	2090-0379	1	COLOR LCD

2. Parts required when replacing only motherboard assy

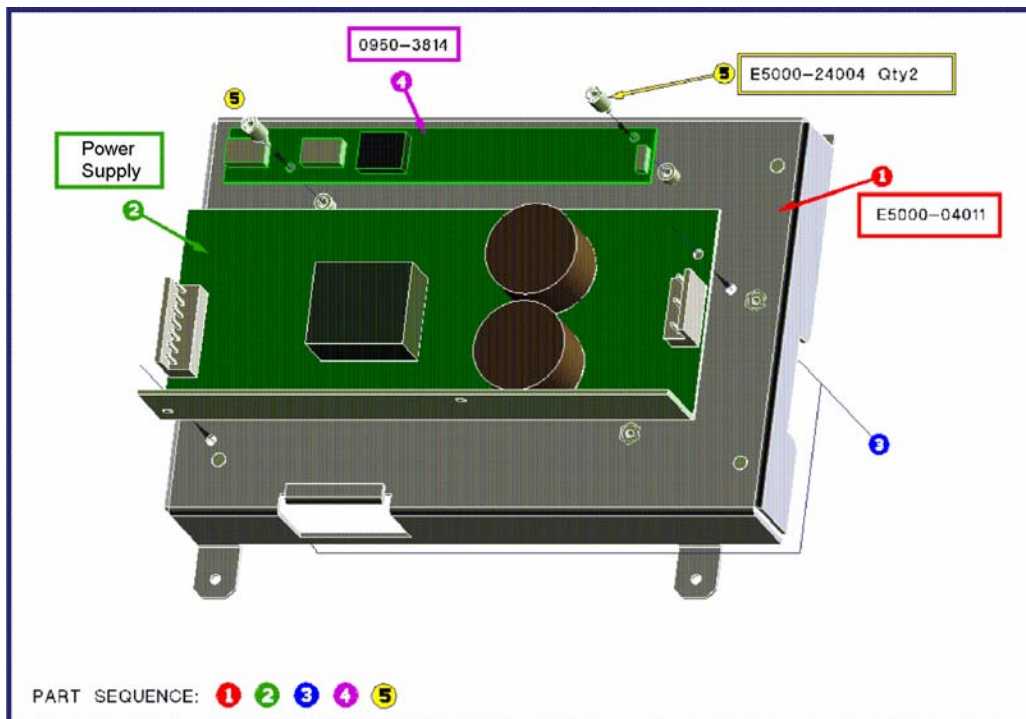
Serial number	Part number	Qty	Description
JP1KC00101 to JP5KC00906	See Page 2 of 5 1.Parts required when replacing only color LCD for JP1KC00101 to JP5KC00906		
*See service note E5100A-32 for MODIFICATION RECOMMENDED			
JP5KC00907 to JP5KC01058	E5100-66521	1	NEW MOTHERBOARD ASSY
MY40500101 to MY40500128	0403-0424	7	CUSHION OF MOTHERBOARD
JP5KC01086 and Above	E5100-66521	1	NEW MOTHERBOARD ASSY
MY40500129 and Above	0403-0424	7	CUSHION OF MOTHERBOARD

3. Color LCD assembly replacement procedure.

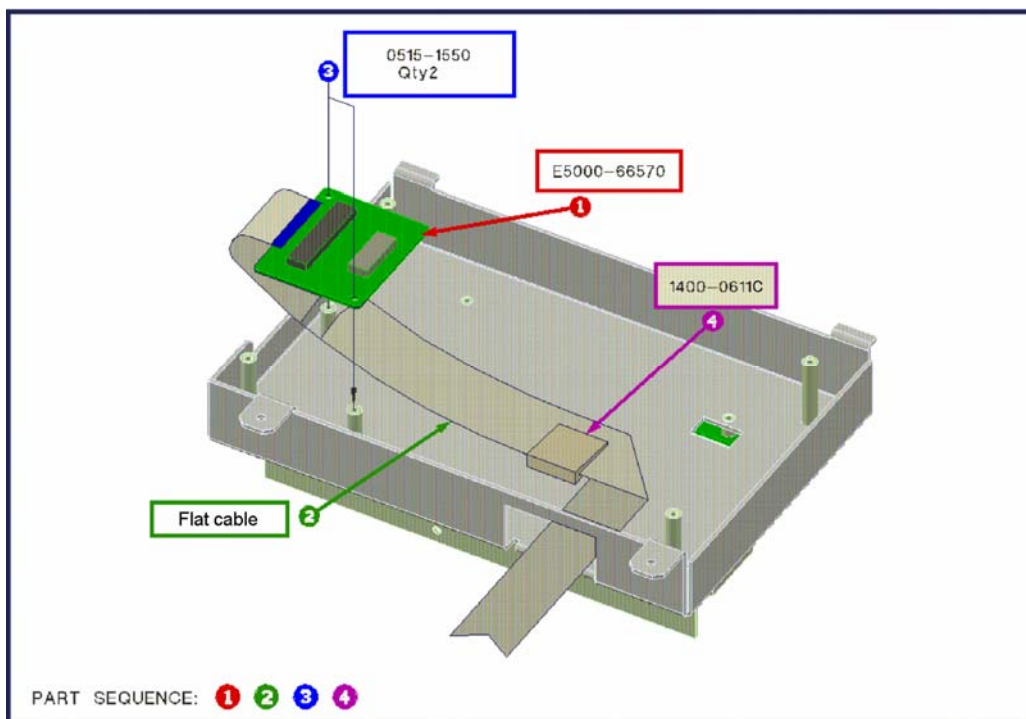
3-1 Remove the old color LCD assembly from the E5100B.

3-2. Unscrew 2 screws retaining the power supply board to the LCD cover, and remove the power supply board. Disconnect the flat cable assembly from the connector on the LCD assembly. Unscrew 4 screws retaining the LCD to the LCD cover, and remove the LCD. Keep the power supply board, flat cable and these screws to reuse them.

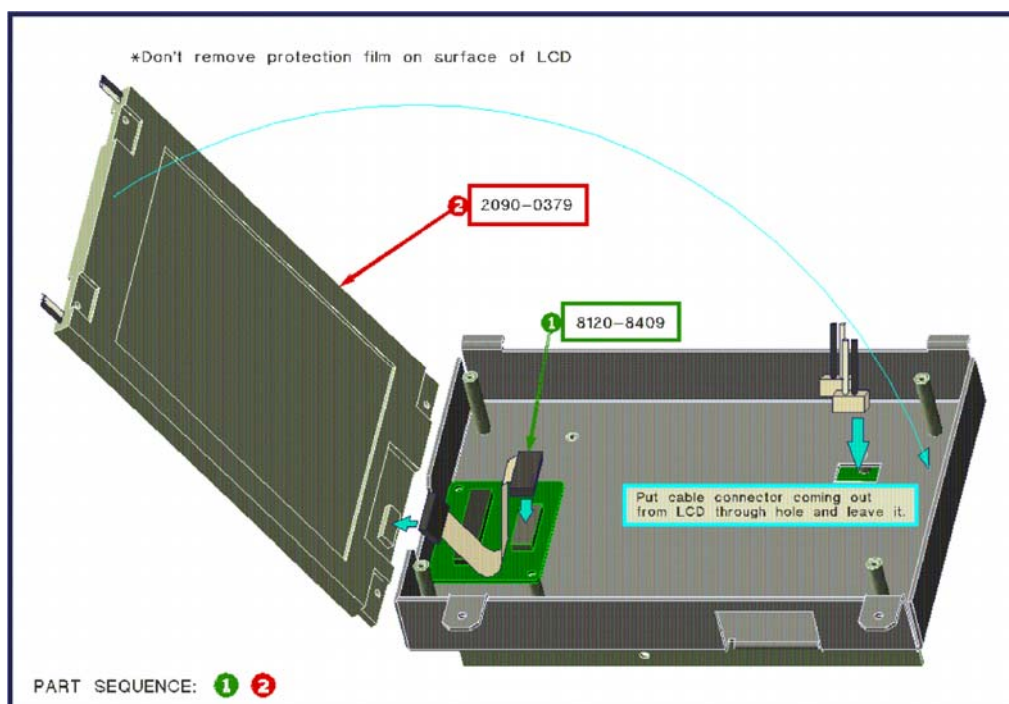
3-3. Attach the power supply board (removed in 3-2) with 2 screws to a new LCD cover (E5000-04011) as shown in the figure below. Attach the new Inverter board (0950-3814) with 2 Standoffs (E5000-24004) to the new LCD cover.



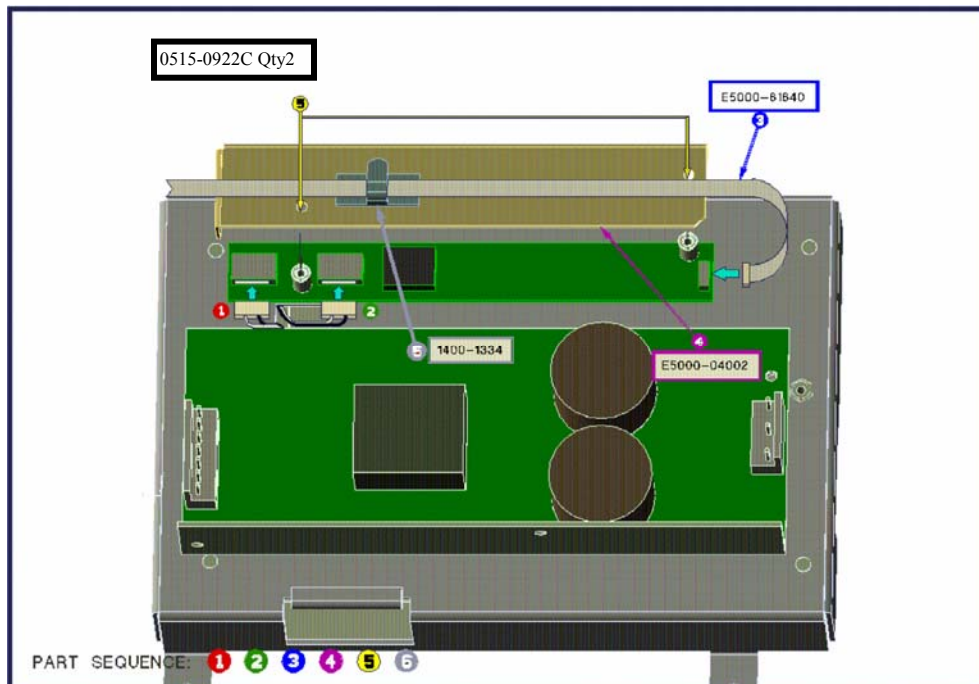
- 3-4. Connect the flat cable assembly (removed in 3-2) to the connector on the LCD Cable Transfer board (E5000-66570) and attach the board with 2 screws (0515-1550) to the new LCD cover as shown in the figure below. Attach an adhesive Cable Clamp (1400-0611C) to the LCD cover and clamp the flat cable with it.



- 3-5. Connect a Ribbon Cable (8120-8409) between the LCD Cable Transfer board and the new color LCD (2090-0379) as shown in the figure below. Attach the new color LCD with 4 screws to the new LCD cover. Insert the LCD backlight cables into the LCD cover hole.



- 3-6. Connect the backlight cable connectors to the inverter output connectors (either connector is ok) on the Inverter board as shown in the figure below. Connect 5-pin connector on the end of new Inverter Wire Ass'y (E5000-61640) to the socket on the Inverter board. (The 6-pin connector on the other end of the wire assembly should be connected to the motherboard.) Attach an Inverter Cover (E5000-04002) with 2 screws (0515-0922C) to the Inverter board. Attach an adhesive Cable Clamp (1400-1334) to the Inverter Cover and clamp the Inverter Wire Ass'y with it.



- 3-7. Finally, install the whole LCD assembly in the E5100B.