S E R V I C E N O T E

SUPERSEDES: NONE

E4401B, E4402B, E4403B, E4404B, E4405B, E4407B, E4408B, and E4411B ESA Spectrum Analyzer family. Also E7401A, E7402A, E7403A, E7404A, and E7405A EMC Pre-Compliance Analyzers.

Intermittent screen "flicker" due to a cold solder joint

ESA Spectrum Analyzer Serial Numbers:

E4401B-07	US39010101 / US40240610
E4402B-07	US39010101 / US40241334
E4403B-06	US39010101 / US40240745
E4404B-06	US39010101 / US40240716
E4405B-06	US39010101 / US40240518
E4407B-06	US39010101 / US40241203
E4408B-06	US39010101 / US40240473
E4411B-07	US39010101 / US40241566

EMC Analyzer Serial Numbers:

E7401A-05	US39110101 / US40240361
E7402A-05	US39110101 / US40240208
E7403A-05	US39110101 / US40240139
E7404A-05	US39110101 / US40240128
E7405A-05	US39110101 / US40240198

To Be Performed By: Agilent Service Centers Only

Continued

DATE: January 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ■ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: LABOR 1.0 Hours		
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☐ ON-SITE ■ SERVICE CENTER	SERVICE INVENTORY:	☐ RETURN ■ SCRAP ☐ SEE TEXT	USED PARTS: ☐ RETURN ■ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: End of GMS period		
AUTHOR: BD	ENTITY: 5320	ADDITIONAL INFORMATION:		

Agilent Technologies

Parts Required:

No specific part numbers, just the tools to take apart the ESA Front Frame assembly. You will also need scissors, solder, and a soldering iron.

Situation:

Instruments within the above serial range can experience an intermittent screen "flicker" due to a cold solder joint on pin 7 of the transformer on the backlight inverter board. The backlight inverter board attaches to the front panel interface board (A1A1) on the analyzer. The attached figures below in the Solution/Action section can be referenced on the procedure to use to correct for this problem.

The backlight inverter board and LCD display are procured together as an assembly from NEC. Manufacturing has troubleshot screen flicker issues to poor solder quality on pin 7 of the transformer on the backlight inverter board. NEC has been notified and an inspection process implemented in manufacturing to cure this problem.

Solution / Action:

If an ESA or EMC analyzer is returned and the fail description relates to a display problem (no display or intermittent "flicker"), Agilent Service Centers should remove the backlight inverter board and perform the following procedure:

1) Peel back the plastic shield on the backlight inverter board. See Figure 1.

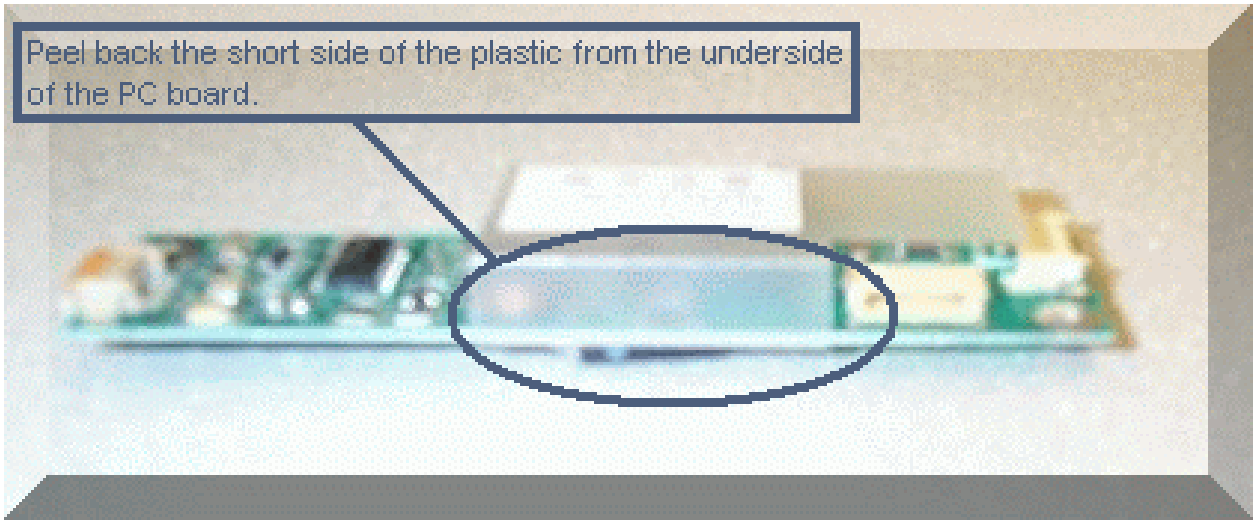

Figure 1

2) Cut the plastic with a pair of scissors. See Figure 2.

Continued

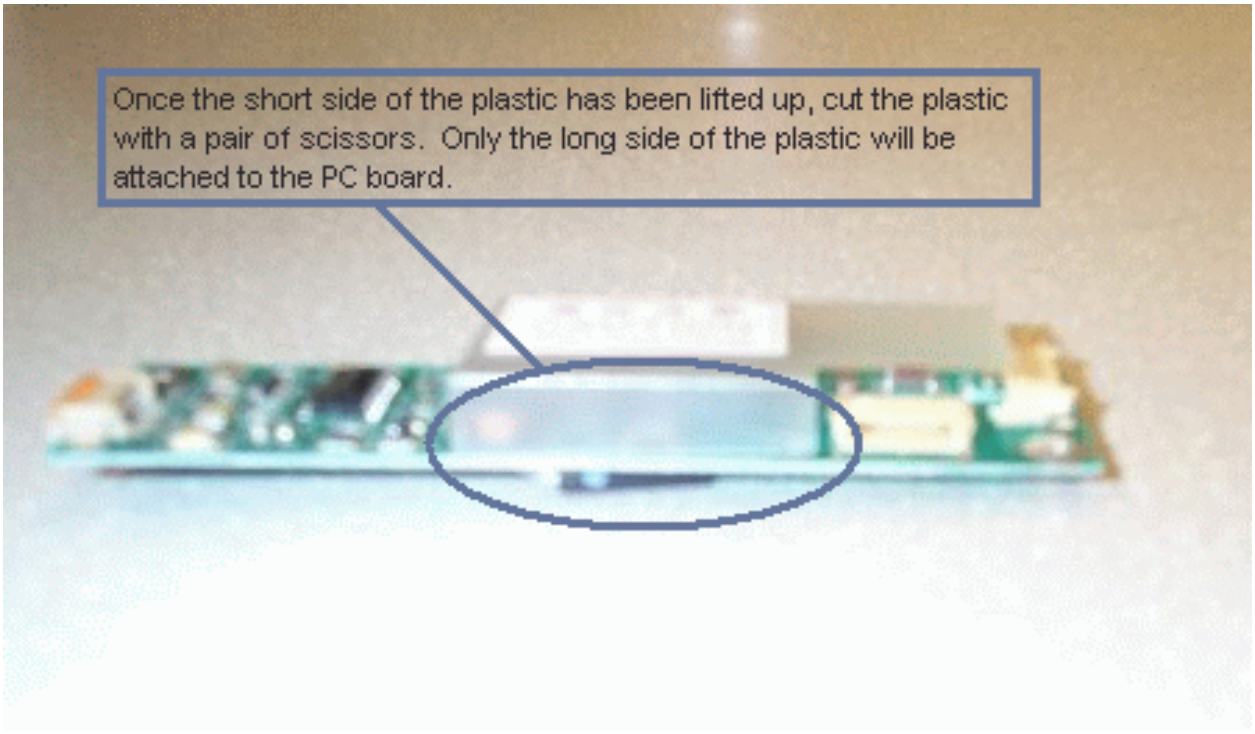

Figure 2

3) Re-solder pin 7 of the transformer on the backlight inverter board. See Figure 3.

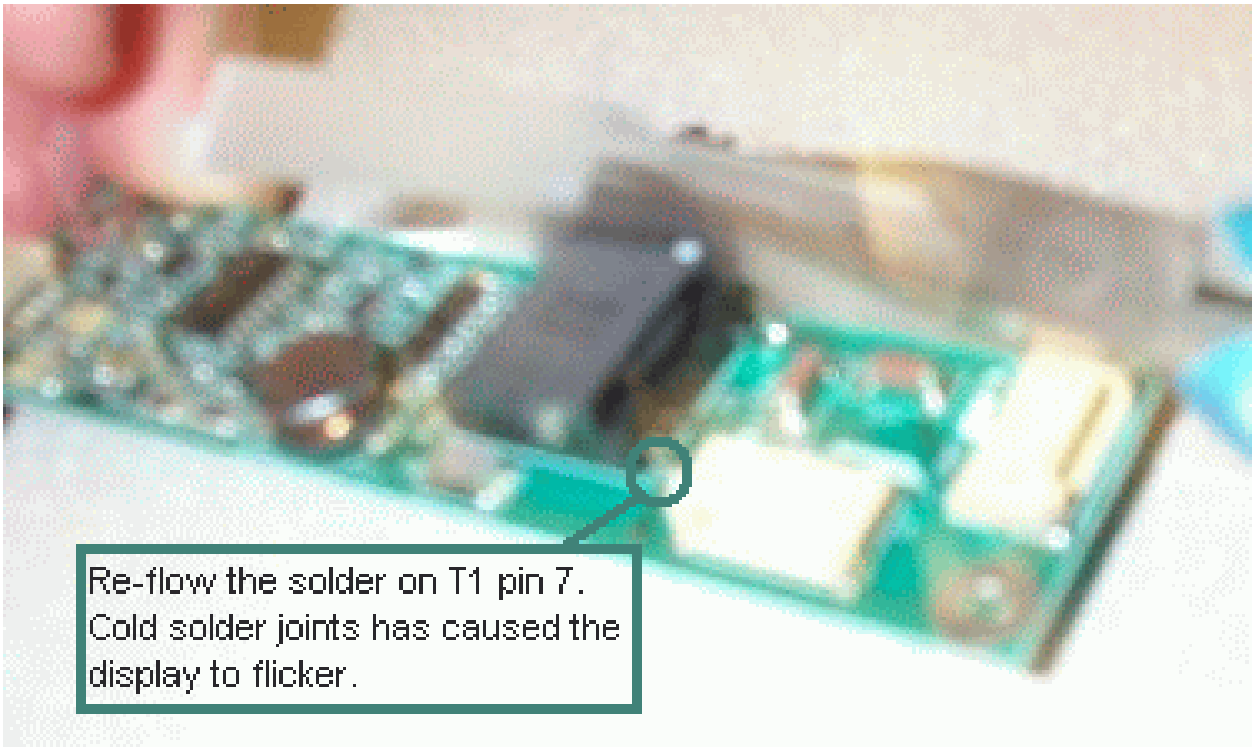

Figure 3