

MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

E4421B-05

S E R V I C E N O T E

Supersedes:
NONE

ESG “B” Signal Generator E4421B

Serial Numbers:
0000A0000 / 9999Z9999

ESG has dim display or no display due to inductors L601 or L602 improperly soldered on motherboard assembly A14, P/N E4423-60035.

To Be Performed By: Agilent-Qualified Personnel or Customer

Parts Required:

P/N	Description	Qty.
NONE		

Tools Equipment and Manuals Required:

ESG Family Signal Generators Service Guide
T-10 TORX screwdriver
T-15 TORX screwdriver
Soldering Tools

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:		
AUTHOR: Kevin Bertlin PRODUCT LINE: PL15			
ADDITIONAL INFORMATION:			

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Situation:

The ESG-B Family of Signal Generators has been experiencing failures with the symptoms of “dark display” or “no display”. This is due to poor soldering of inductors L601 and L602. A new build of the motherboard that addresses this problem will not be done until March of 2002. Until this problem was discovered, replacement of the motherboard was the corrective action taken.

Solution/Action:

The resolution plan consists of the following:

1. Repair on failure.
2. Prevent future occurrences of display errors by re-soldering the inductors L601 and L602.

Instructions to access the inductors:

Removal:

1. Remove the CPU/Motherboard Assembly A14. (Refer to “A14 CPU/Motherboard” replacement procedure in Service Guide.)

Repair:

1. Locate and re-solder the wire-wound toroid inductors L601 and L602. They are located on the top side of the motherboard, near the front panel edge, adjacent to the silkscreen designator “DS509”.

NOTE:

Take care not to damage the leads of the inductors. They are fragile and can be broken.
If damaged, the replacement part number is 9100-3922