

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**E4434B-05**

# **S E R V I C E                      N O T E**

Supersedes:  
NONE

## **ESG “B” Signal Generator E4434B**

**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:**

| <b>P/N</b> | <b>Description</b> | <b>Qty.</b> |
|------------|--------------------|-------------|
| 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:                  |                                                                                                                                                               |                                                                                                                           |                                                                                                                               |
| <b>MODIFICATION RECOMMENDED</b>               |                                                                                                                                                               |                                                                                                                           |                                                                                                                               |
| ACTION CATEGORY:                              | <input type="checkbox"/> IMMEDIATELY<br><input checked="" type="checkbox"/> ON SPECIFIED FAILURE<br><input type="checkbox"/> AGREEABLE TIME                   | STANDARDS:<br>LABOR: 1.0 Hours                                                                                            |                                                                                                                               |
| LOCATION CATEGORY:                            | <input checked="" type="checkbox"/> CUSTOMER INSTALLABLE<br><input checked="" type="checkbox"/> ON-SITE<br><input checked="" type="checkbox"/> SERVICE CENTER | SERVICE INVENTORY: <input type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT | USED PARTS: <input type="checkbox"/> RETURN<br><input checked="" type="checkbox"/> SCRAP<br><input type="checkbox"/> 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