

E4438C-08A

S E R V I C E N O T E

Supersedes:
E4438C-08

E4438C Vector Signal Generator

Serial Numbers: ALL

Cleaning dust, dirt, and debris from ventilation holes, fans and internal areas

Parts Required:

P/N	Description	Qty.
NONE		

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:	
INFORMATION ONLY	
AUTHOR: HLU	PRODUCT LINE: 15
ADDITIONAL INFORMATION: Cleaning dust and debris from E4438C and E4428Cs at time of calibration, repair or more frequently if conditions warrant is recommended.	

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Situation:

Accumulated dust, dirt, and debris in ventilation holes, on fan blades and internal assemblies can block cooling air flow, leading to premature product failures. Cleaning is to be done at calibration, repair or more frequently if accumulations are observed.

Solution/Action:

Vacuum the product's ventilation holes, fan blades and accessible assemblies so that proper air flow is restored.

1. A suitable vacuum can be found on the web or purchased locally. An example one such vacuum vendor can be found at <http://www.convac.co.uk/vacuum.htm> but other vendors are available. The only requirements for the vacuum are that it be EMI/RFI filtered and ESD safe.
2. Prior to cleaning assure that the signal source is unplugged.
3. Inspect the ventilation holes on the instruments external cover, rear panel, internal surfaces, fan intake and blades. Remove dust and dirt using the vacuum.
4. Remove internal covers, locate any internal fans, inspect, and clean using the vacuum.
6. Locate, inspect, and clean the power supply, removing power supply covers as required. Note: Some power supplies may not have removable covers.