

34951A-02

S E R V I C E N O T E

Supersedes:
NONE

34951A - 4-Channel D/A Converter with Waveform Memory for
34980A

Serial Numbers: MY44000386
MY44002117-MY4402602
MY45000037-MY4500088
MY46000006
SG44000189-SG44000206
SG45000002-SG45000015

Relay contact contamination causes variation in performance.

Parts Required:

P/N	Description	Qty.
34951-60001	4 - Channel Isolated D/A Converter with Waveform Memory new replacement unit	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:	
MODIFICATION RECOMMENDED	
ACTION CATEGORY: <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS LABOR: 0.5 Hours
LOCATION CATEGORY: <input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER	SERVICE INVENTORY: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: 7/1/2014
<input type="checkbox"/> Calibration Required <input checked="" type="checkbox"/> Calibration NOT Required	PRODUCT LINE: BL AUTHOR: TP
ADDITIONAL INFORMATION: Used parts are to be returned to factory for failure analysis.	

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Situation:

It has been found that affected 34951A modules described above may have contaminated relays contacts within the high current protection circuits that can cause intermittent variation in the modules specifications.

- This could limit the available output amplitude to $\pm 14\text{V}$ instead of $\pm 16\text{ V}$ when driving the full rate output current of $\pm 10\text{ mA}$.
- The DC voltage amplitude accuracy could be degraded to $\pm(0.05\% + 2.003\text{V})$ instead of $\pm(0.05\% + 3\text{mV})$.
- The DC current compliance voltage limit could be reduced from $\pm 12\text{V}$ to $\pm 8\text{V}$ at the rated output current of $\pm 20\text{mA}$.

Solution/Action:

If these symptoms are observed, contact Agilent Service for a replacement.

Revision History:

Revision Number	Date	Author	Reason For Change
1.0	6/7/13	TP	As Published