

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**8562EC-05**

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

Supersedes:  
None

## 856xEC Portable Spectrum Analyzer

### Duplicate Service Notes:

**8560EC-05** Serials 0000A00000/4103A00337  
**8561EC-05** Serials 0000A00000/4103A00474  
**8562EC-05** Serials 0000A00000/4103A00473  
**8563EC-05** Serials 0000A00000/4103A01172  
**8564EC-05** Serials 0000A00000/4103A00454  
**8565EC-05** Serials 0000A00000/4103A00453

**Replace A2 board to remove spikes on falling edges of a square pulse while in 0 span.**

**To Be Performed By: Agilent-Qualified Personnel or Customer**

### Parts Required:

**08563-60172          A2 Controller Board          Qty: 1**

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS: LABOR: 0.0 Hours	
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL:	
AUTHOR: JCC	PRODUCT LINE: 12		
ADDITIONAL INFORMATION:			

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**Situation:**

When measuring a square pulse, such as a GSM signal, with an 856xEC analyzer in 0 span, sweep times less than 30 ms, in pos. peak mode, spikes are detected on the falling edges of each pulse. This problem is only found in 856xEC's with the above serial numbers.

**Solution/Action:**

Since the spikes only show up when sweeping in 0 span faster than 30 ms, it is determined that the problem is with the Fast ADC chip mounted on the A2 controller board. Recent changes in the topology of the A2 board have fixed this problem. If the serial number on the instrument pertains to the ones above and if the part number of the A2 board part number is 08563-60160, then replace the existing A2 board with the 08563-60172 A2 board.