MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

8563EC-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: **MODIFICATION RECOMMENDED**			
ACTION CATEGORY:	[[]] IMMEDIATELY X ON SPECIFIED FAILURE [[]] AGREEABLE TIME	STANDARDS: LABOR: 0.0 Hours	
LOCATION CATEGORY:	[[]] CUSTOMER INSTALLABLE [[]] ON-SITE X SERVICE CENTER	SERVICE INVENTORY: X RETURN [[]] SCRAP SEE TEXT	USED PARTS: X RETURN [[]] SCRAP SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL:	
AUTHOR: JCC	PRODUCT LINE: 12		
ADDITIONAL INFORMATION:			

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Agilent Technologies

February 8, 2002

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.