MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

8560EC-06

S E R V I C E N O T E

Supersedes:
None

856xEC Portable Spectrum Analyzer

Duplicate Service Notes:

8560EC-06 Serials 4111A00352/4123A00524
8561EC-06 Serials 4111A00361/4123A00428
8562EC-06 Serials 4111A00497/4148A00760
8563EC-06 Serials 4111A01243/4148A01871
8564EC-06 Serials 4111A00502/4208A00642
8565EC-06 Serials 4111A00494/4208A00724

Perform butch on A3 interface board to remove gated video problems

To Be Performed By: Agilent-Qualified Personnel or Customer

Parts Required:
XTD-8 Torx driver
Soldering Iron

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: **MODIFICATION RECOMMENDED**				
ACTION CATEGORY:	[ ] IMMEDIATELY X ON SPECIFIED FAILURE [ ] AGREEABLE TIME	STANDARDS: LABOR: 0.5 Hours		
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE [ ] ON-SITE X SERVICE CENTER	SERVICE INVENTORY:	[ ] RETURN [ ] SCRAP X SEE TEXT	USED PARTS: [ ] RETURN X SCRAP [ ] SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: TBA		
AUTHOR: JCC	PRODUCT LINE: 12			
ADDITIONAL INFORMATION:				

Agilent Technologies

March 13, 2002

Situation:
Instruments with the above serial numbers will have problems with gated video. When gating a pulsed RF signal, the spectrum noise floor will drop below the screen while the signal peak will drop down to about 40 dB or below depending on the RBW/VBW settings. What causes this is a 220-pF capacitor connected from pin 2 of the switching IC, U109, to ground on the A3 interface board (part #08563-60174). The capacitor acts as a low pass filter and therefore will filter out pulses with higher pulse repetition frequencies.

Solution/Action:
Remove the capacitor. Unfold and remove the A3 interface board from the spectrum analyzer. Using a torx driver, remove the shielding. Locate capacitor C157 (220-pF, part #0160-4812) connected from R142 to ground. It's very distinct from the other caps and has plastic shielding around the exposed wire. Remove by soldering. Don't cut the wire. Label the board to show that service note 856xEC-06 has been applied.