

**Orban Associates Inc.** 645 Bryant Street San Francisco, California 94107 (415) 957-1063

> FIELD ENGINEERING BULLETIN #B6 8000A Optimod-FM

July 11, 1979

ALTERING PRE-EMPHASIS TO 50 µs

In Europe and other foreign countries, broadcasting standards require use of 50  $\mu s$  pre-emphasis rather than the 75  $\mu s$  required in North America.

Model 8000A is factory modified at no charge if this requirement is stated on the order. A "Special Modification" label is attached near the serial label to indicate the change.

This bulletin describes how to make the change as a field operation.

- Remove the top cover revealing the limiter/compressor section. Referring to the diagram on Page 3, locate the four affected resistors.
- Referring to field repair techniques described on Pages V-3 and V-4 of the Operating Manual, change these resistors according to Table 1 below.
- 3) Remove the bottom cover revealing the input filter and stereo generator sections. Referring to the diagram on Page 3, locate the two affected capacitors.
- 4) Change these capacitors according to Table 2 below.
- 5) No recalibration is necessary. Replace both covers tightening all screws evenly.

Ref. Des	<u>Old Value</u>	New Value	Remarks
R233	3.83K	5.90K	L Limiter
R234	3.83K	5.90K	R Limiter
R235	(absent)	10.2K	L Limiter
R236	(absent)	10.2K	R Limiter
C317	1600 pF	1070 pF*	L Input filter
C318	1600 pF	1070 pF*	R Input filter

NOTE: It is wise to solder replacement components to both sides of the circuit board to assure reliable connections after removal of old components.

Resistors are 1/8W, 1% Metal Film (RN55D style)

\*Capacitor values are  $\pm 1$ %. These are obtained by paralleling selected 390 pF and 680 pF mica CM05-style capacitors.

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Parts	List	for	Field	Retrofit	Kit		

Quantity	Description	Orban P/N	
2	5.90K, 1%, MF Resistor	20041-590	
2	10.2K, 1%, MF Resistor	20042-102	
2	680 pF, 1%, Mica Cap	21022-168	Bridged to 1070
2	390 pF, 1%, Mica Cap	21020-139	& Piggy-Backed
1	Label, Special Modification "50 µs Pre-emphasis"	59020-000	

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pF±1%

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