

CONVERSION OF FREQUENCY SHIFT CONVERTER
MODEL CFA TO NARROW SHIFT FOR LOW FRE-
QUENCY USE

The attached drawing shows the modification to the Discriminator Section of the Model CFA Frequency Shift Converter in order that it may have maximum performance on low frequency circuits where narrow band shift is used.

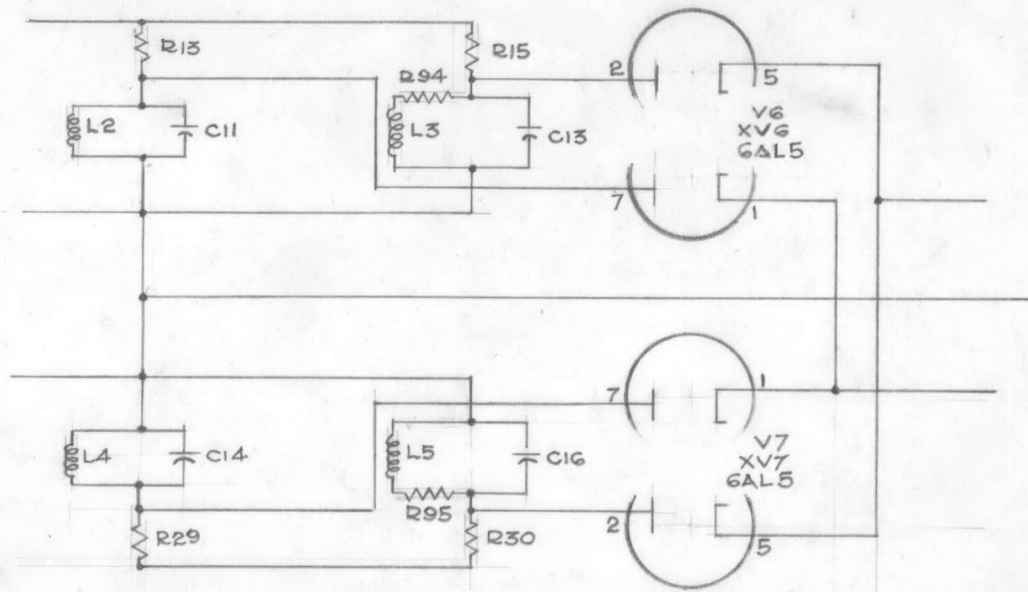
Drawing No. AES036 shows the component changes required to achieve the above and can be performed on any Model CFA Converter.

This modification is carried out in the factory by The Technical Materiel Corporation with a switch arrangement to provide (1) Narrow Band Shift, or (2) Wide Band Shift.

When this modification is applied, the CFA then becomes a Model CFA-L Converter.

Ref: Part of Drawing No. AES036

AES036



SYM.	DESCRIPTION	FUNCTION	MFG.	PART N ^o
R13	Resistor, fixed: comp; 470,000 ohms ±5%; 1/2 watt	Discriminator Resistor	ALB	EB4745
R14	Not used (Replace by jumper)	—	—	—
R15	Same as R13	Discriminator Resistor	ALB	EB4745
R28	Not used (Replace by jumper)	—	—	—
R29	Same as R13	Discriminator Resistor	ALB	EB4745
R30	Same as R13	"	ALB	EB4745
R94	Resistor, fixed: comp; 120 ohms ±5%; 1/2 watt	"	ALB	EB1245
R95	Same as R94	"	ALB	EB1245
C11	Capacitor, fixed: mica .0056 mfd. ±5% Char.C; 500 wvdc	Discriminator Condenser	SMO	CR1256C5
C13	Capacitor, fixed: mica .004 mfd. ±5% Char.C; 500 wvdc	"	SMO	CR1240C5
C14	Same as C11	"	SMO	GR1256C5
C16	Same as C13	"	SMO	CR1240C5

DATE 10-6-52
 DRN. JEH.
 CHKD.
 APPD.

NARROW SHIFT
MODIFICATION
GFA

TMC (Canada) LIMITED.
 Communications Engineers
 OTTAWA, ONTARIO.

NO AES03G