

Technical Bulletin

ICOM

IC-735

HF ALL BAND TRANSCEIVER
GJ36783

SYMPTOM

Distorted receive and/or transmit audio on one or more bands. Distortion may be temperature related. Single sideband audio sounds "raspy" or "rough". Selected frequency may show instability.

CAUSE

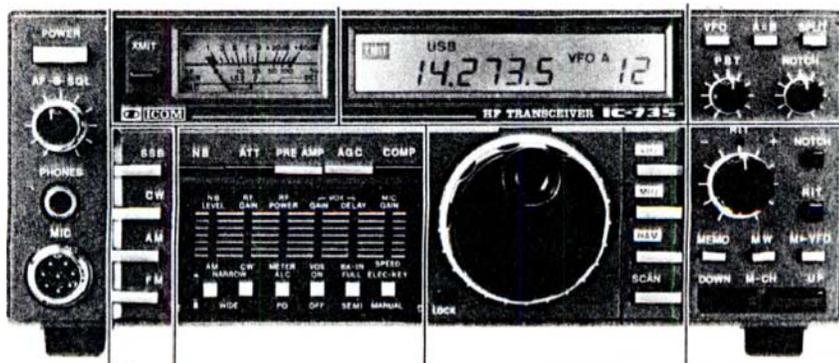
The trimmer caps in the PL unit (HPL VCO), and Reference Oscillator unit may have aged and changed values.

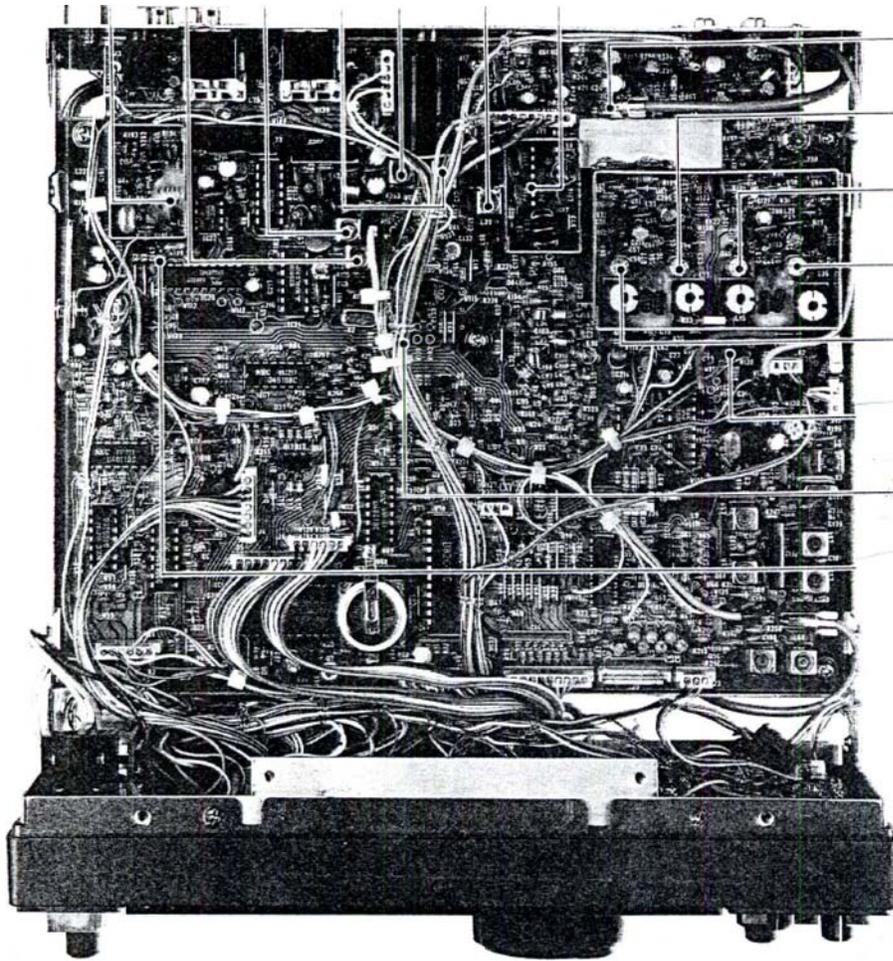
REPAIR

Replace the following trimmer caps:

C37	10pf	with an Icom # 4610000110 12pf unit vco cap (white)
C45	10pf	with an Icom # 4610000110 12pf unit vco cap (white)
C52	6pf	with an Icom # 4610000100 6pf unit vco cap (red)
C59	6pf	with an Icom # 4610000100 6pf unit vco cap (red)
C138	6pf	with an Icom # 4610000100 6pf unit REF osc (red)

The replacement trimmer caps are long-life ceramics. A partial realignment will be required after these trimmers are replaced. See Service Manual for procedure.





C52 PLL (HPL) ADJUSTMENT

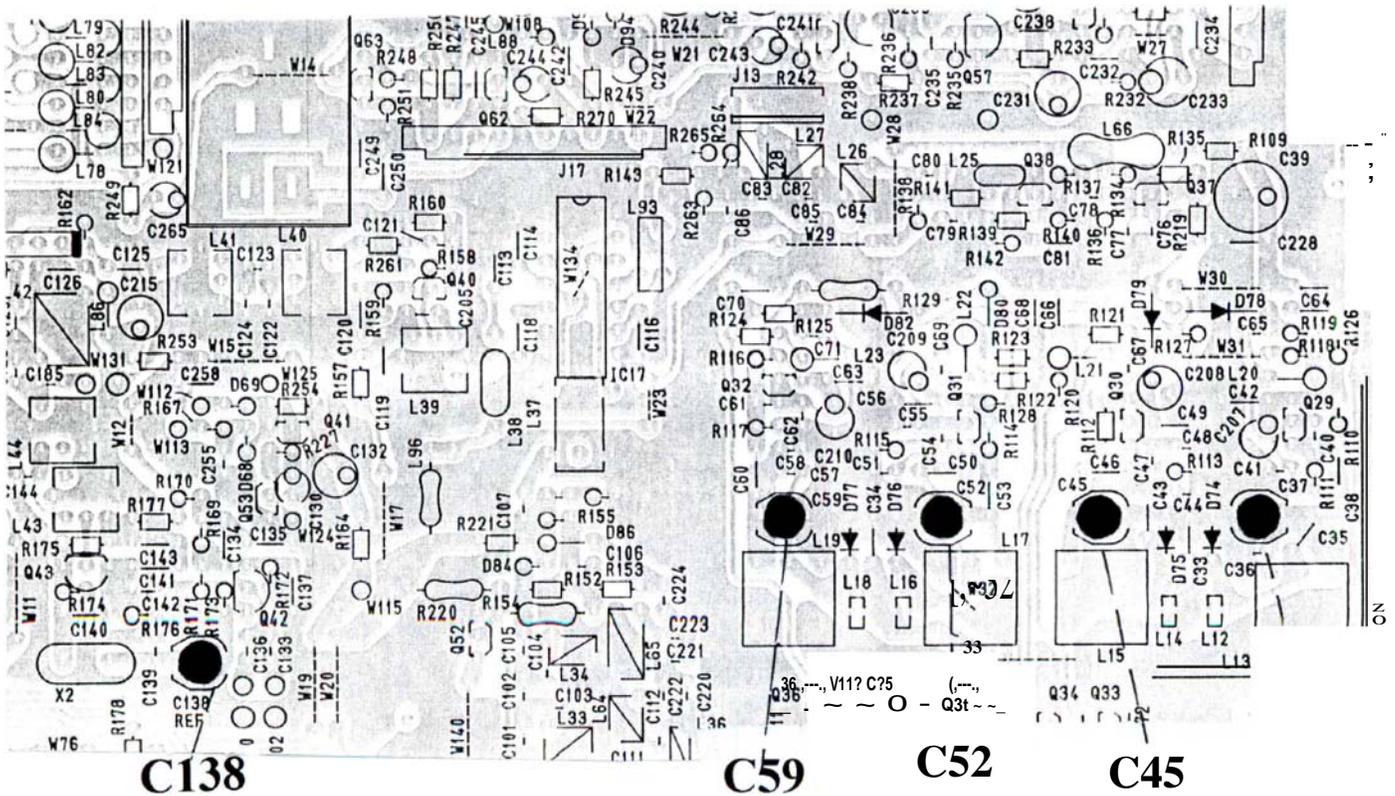
C45 PLL (HPL) ADJUSTMENT

C37 PLL (HPL) ADJUSTMENT

C59 PLL (HPL) ADJUSTMENT

-C138 PLL (1ST LO)

[PL] UNIT BOARD



C138

C59

C52

C45