

## 103 ADJUSTMENTS

### PRESELECTOR - MAIN

The auxiliary Preselector Board can be completely removed from the unit to gain access to all adjustments on the Main Preselector Board. All bands; except 30, 17 and 12 will operate normally in this configuration.

### L.O. - MAIN

To gain access to adjustments on the Main L.O. Board that are located beneath the auxiliary L.O. Board: Disconnect the VCO out, BPF input, BPF output coaxes and the PLL Error Line plug from the auxiliary L.O. Board; Remove the 4 retaining screws from the auxiliary L.O. Board; gently lift the board out of the unit and tilt it toward the center of the unit. The Main L.O. Board will operate normally in this configuration on all bands but 30, 17 and 12.

NOTE: There will be a slight drop in output from the band VCO's when the auxiliary L.O. Board is reconnected, due to increased loading.

L.O. Board Shield must be removed.

### PRESELECTOR - AUXILIARY

Trimcaps C218 and C219 are 9 MHz trap adjustments. To adjust inject a signal at the antenna jack at 9.0015 MHz and adjust input level for "S" meter indication. Adjust C218 and C219 for minimum "S" meter indication.

For proper unit operation the following minimum levels must be observed.

#### MAIN L.O. BOARD

Z101	pin 16	3.6V P-P	
Z101	pin 9	280MV P-P	
J103	(while connected to Exciter)	320MV P-P	160-12
		600MV P-P	10M

#### EXCITER BOARD

Z102	pin 16 (in transmit)	3.6V P-P
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103 Adjustments  
Page 2

To increase the signal to Z101 Pin 16 on 10M the following changes were made to the Main L.O. Board.

C156	15 pf	Change to 20 pf
C159	15 pf	Change to 20 pf
C157	20 pf	Change to 30 pf
L111	1.8 uh	Change to 1.2 uh
L112	1.8 uh	Change to 1.2 uh

1.2 uh	P/N	027-058
20 pf S-M	P/N	088-031
30 pf S-M	P/N	088-001

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