

ON REAL LIMITED

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Alignment Procedure

Model: PR 270

1. VCO and TX

Set unit: CH1 4.8 V DC supply 50 Ohm Dummy

- 1) PLL VCO Align: ~ Read DC voltage at VCO Test Point (TP4) and align
1.0 ± -0.2V with L18 - [1.17V]
~ Press PTT and check TX VCO voltage - [1.17V]
~ Change Channel to CH14 and read VCO voltage - [1.19V]
~ Press PTT and check TX VCO voltage - [1.17V]
- 2) TX Freq. Align: ~ Press PTT at CH1 and read Frequency with Frequency counter
~ Align 462.5625MHz ± 50Hz with C85 10pF trimmer - [-260Hz]
- 3) TX Mod. Align: ~ Set CH1 100mV 1KHz Mic Input
~ Press PTT and align max modulation ± 2.0 ± 0.1 KHz with VR1
100k Ohm Semi - [1.948KHz]
- 4) CTCSS/DCS Align: ~ Set CH1 DCS 01
~ Press PTT and read CTCSS modulation level - [0.519KHz]
~ Change CTCSS 38 and read modulation level - [0.531KHz]
~ Change DCS 01 and read modulation level - [0.493KHz]
~ Change DCS 83 and read modulation level - [0.506KHz]
- 5) Check TX Power Output: ~ Set CH1 Power High - [16.71dBm]
~ Press PTT and read TX Power output
~ Change Channel 8 to Power Low and read the
TX Power output - [14.45dBm]

2. RX

Set unit : CH1 4.8 DC supply 16 Ohm Load

- 1) RX Audio Distortion: ~ Set CH1, SSG 1mV, Audio level 5 (about 650mV)
~ Read Distortion - [2.6%]
- 2) RX Sensitivity: ~ Reduce SSG level - [-105dBm]
- 3) Squelch Align: ~ Set to 10dB Sinad with SSG level align - [-107dBm]
~ Align squelch with VR2 100K Semi