

## PALOMAR 2400, ALIGNMENT (Cont.)

### RECEIVER ALIGNMENT (Cont.)

#### D. FM Sensitivity Alignment:

1. RF Gen to FM Mode, ( $1_mV$ , 1KHz mod., 1.5KHz deviation.) Disconnect from antenna connector.
2. Mode select to FM on unit.
3. Adjust T-16 for maximum noise.
4. Connect RF Gen to unit, adjust T-15 and T-16 for maximum audio output.  
(Note: T-16 has three peak points, choose the one with maximum)

#### E. Sensitivity Specifications-Check:

- AM - less than 1 micro volt, S/N 10db.  
FM - less than 1 micro volt, S/N 20db.  
SSB - less than 0.5 micro volt, S/N 10db.

#### F. S-Meter Alignment:

1. Adjust SSB mode first...  $100_mV$  input (40db) at the antenna jack.
2. Adjust RV-9 for needle swing to 'S-9'
3. Adjust RV-8 for needle swing to 'S-9' in the AM mode.

#### G. Squelch Alignment:

1. Change generator output to  $200_mV$  (46db) in AM mode.
2. Set Squelch to maximum in unit, then adjust RV-10 for no audio output.
3. Check that squelch functions in all modes, within the range of 40-56db.

#### H. RF Gain (Dx/Loc) Check:

1. Set Sig Gen at sensitivity of S/N 10db on AM mode. Unit to AM and DX.
2. Adjust Volume for audio output of 2V (500mW), radio's volume control!
3. Dx/Loc to Loc, readjust the Sig Gen in output until the audio output of radio is 2V (500mW) again.
4. Difference in Sig Gen output should be between 15db-35db.

#### I. N.B. Check:

1. Connect 2-input pad to antenna connector.
2. Signal #1 to be 100Hz  $1_mV$ ; Signal #2 to be 100Hz,  $1_m$ Sec Pulse Width, 500mV P-P.
3. Should be at least 7db S/N ratio between NB OFF and NB ON.

END OF PALOMAR 2400 ALIGNMENT..

### REALISTIC PRO-22, VHF-H/U,AIR,UHF PORTABLE SCANNER

NOTE: The external power jack is wired for tip NEGATIVE! If you find one on the outs - check Q-15 and R-80.. - might have been lucky! If not, there is going to be plenty to keep you busy...(Cuss, that high-priced Engineer!)

### SPECIAL NOTES:

Citizens Radio ? - supposed to be the same as Colt 1200..

Orbit-Sonic ? - supposed to be the same as Kraco KCB-40003? (try KCB-4003 1st)!