TR-4 S-Meter

R-13 is a calibration resistor for the plate meter. It has no effect on the S meter operation. The only calibration for the TR-4C S meter is S METER ZERO and the S meter sensitivity pot R187 on the audio board. The tubes associated with AGC and the S meter are V11, V13, and V17. V15 is connected in transmit to indicate transmit AGC. The S meter sensitivity is set for a full scale indication with the RF Gain fully CCW. Then with a 30uv signal the S meter should move to anywhere from S7 to S8. Typical is around S8. 100 uv will result in a S meter reading of S9 to S9+5. The AGC should begin to rise at 1 to 1.8 uv and the S meter will read S1 to S2. This info came from several TR-4's / C's. Since a lot of radios reference S9 as 30 uv the TR-4 S meter is typically scotch.

Typically the S meter on the TR-4 will read well past 60 over 9 with the RF Gain fully CCW. The TR-4 lacks the sensitivity pot R187 to set full scale at 60. Over the production of the TR-4 the resistors in the S meter circuit changed values several times. In order to calibrate the TR-4 S meter it may be necessary to swap out resistors R143 and/or R71. Typical values for R143 are 100, 180, and 270 ohm. R71 typically is 560 or 820 ohms.

Hope this helps...73, Gary W8PU