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Craig Model 4101 and 4102 Service Bulletin# 090176

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**SOUND  
ADVICE**

**CRAIG**

SB: #090176  
September 1, 1976

TO: ALL CRAIG C.B. WARRANTY SERVICE CENTERS  
FROM: LARRY TINKLER, NATIONAL SERVICE DIRECTOR  
SUBJECT: \*\*\*TRANSISTOR REPLACEMENT IN 4101, 4102\*\*\*

When replacing R.F. Output Xistor Q18 (2SC1816, or 2SC1678), or R.F. Driver Xistor Q17 (2SC495), the following should be performed to minimize repeat failure.....

1. Replace or add a 47 ohm  $\frac{1}{2}$  watt Resistor between base and emitter of Q17 (2SC495) this is R79. It is shown as 68 to 100 ohm, but may, or may not actually be installed.
2. Change C78 from 140 PF to 160 PF.
3. Put silicone grease between heat sink of Q18 and chassis.

Re-align transmitter section as follows using 50 ohm dummy load and power supply at 14.4 V. (ch.13).....

1. Tune L6, L8 and L10 for peak R.F. output.
2. Adjust R.F. output to 4.5 watts by turning core of L10 counter clockwise.
3. Adjust R.F. output to 4.0 watts by turning core of L6 clockwise.
4. Adjust R.F. output to no more than 4.0 watts on any channel by turning core of L8.

When replacing Q15 a 2SC710 must be used only. Schematic shows 2SC711 may be used, but is in error.

LT/ghl