

✓ *installed*      29 SEPT 61

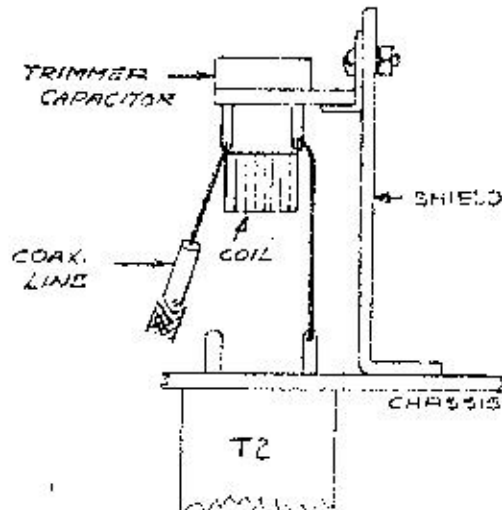
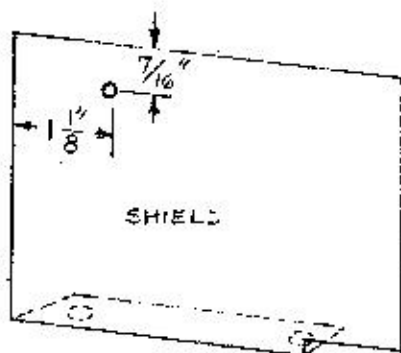
INVADER INSTRUCTIONS

INSTALLATION AND ADJUSTMENT OF T5 TRAP

The T5 trap may be installed on an Invader or Invader 2000 that has a spurious radiation in the vicinity of 6994 KC or just below the 40 meter band.

INSTALLATION:

1. Drill a .156" diameter hole (diameter to pass a 6-32 screw) in the corner of the shield next to T2 and XV2 (see FIG. 8). See sketch for location of hole.

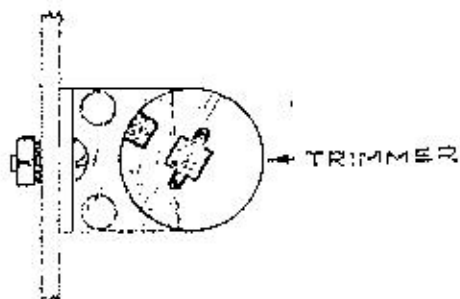


2. Install T5 on the shield using a 1/4" 6-32 round head screw, T5 bracket, shield, 6-32 internal tooth washer, and a 6-32 hex nut. Tighten screw securely to shield.
3. Disconnect the small coaxial line inner conductor from the output terminal of T2. Connect the T5 lead (next to the shield) to this terminal on T2 as shown in the above sketch. Solder this connection.
4. Connect the coaxial line (disconnected from T2 in previous step) to the other T5 terminal lug as shown in the above sketch. Solder the connection. Be sure the coaxial line shield is still connected to ground.
- ✓ 5. Remove the <sup>470</sup>330 ohm resistor (R25) which is connected to terminal 9 of switch SW1C REAR.
- ✓ 6. Install a 1800 ohm 1/2 watt resistor across C78 (27 µfd) capacitor located on switch SW1D FRONT.

ADJUSTMENT:

1. Adjust the Invader (exciter only on Invader 2000) for full CW output on 7,000 KC using a dummy load.
2. Loosely couple a receiver to the transmitter and adjust the receiver to the spurious radiation in the vicinity of 6994 KC. Adjust the coupling for about full reading on the receiver 8 meter.
3. Adjust the trimmer capacitor on T5 for maximum attenuation of the 6994 KC

signal as observed on the receiver S meter. The trimmer should tune to about 30° open or as shown in the sketch below.



4. No readjustment of T2 is required by the installation of T5. If any readjustment of T2 is required in the future, T5 must be shorted out.

**PARTS REQUIRED:**

<u>PART NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
23.1502-1	1	T5 trap
22.5055-10	1	1800 ohm 1/2 W. resistor
11.16-1/4	1	6-32 x 1/4 R.H. screw
29.69-3	1	#6 shakeproof washer
12.02-1	1	#6 hex nut