MULTI-ELMAC A-54/A-54H TRANSMITTER

TUNING PROCEDURE:

After an antenna, ground, power supply and microphone or key have been connected to the transmitter, tuning procedure is as follows:

1. - **Switch POWER to OFF.**
2. - **Switch P.A. ON-OFF to P.A. OFF.**
3. - **Set BANDSWITCH to desired band.**
4. - **Switch VFO – CRYSTAL to VFO.**
5. - **Set VFO DIAL to desired frequency.**
6. - **Switch METER SWITCH Ig – Ip to Ig.**
7. - **Set LOADING control to 10 on the dial.**
8. - **Switch POWER to ON.**
9. - **Operate KEYor MICROPHONE PUSH-TO TALK SWITCH.**
10. - **Adjust DRIVE control for 2.0 to 3.0 mA on METER.**
11. - **Switch METER SWITCH Ig – Ip to Ip.**
12. - **Switch PA OFF – PA ON to PA ON.**
13. - **Adjust PLATE TUNING for minimum plate current (Ip).**
14. - **Adjust LOADING toward 0 on the dial until plate current increases to 105 mA and readjust PLATE TUNING for minimum again. Repeat this operation until the minimum dip obtainable is 300 mA or as high as possible if 300 mA can not be reached.**

The same procedure as listed above should be followed for crystal control except that in Step 4, above, the VFO – CRYSTAL switch should be placed in the CRYSTAL position. Crystal used may be in the 160 meter or 80 meter band for 80 meter operation; in the 80, 40 or 20 meter band for 20 meter operation; and in the 40 or 20 meter band for 10 meter operation.

NOTE: When using the Model PSA-500 power supply a push-to-talk switch is not required as the power supply is equipped with a TRANSMIT – RECEIVE switch and all necessary connections are made in the plug and cable which are supplied.

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PLUG CONNECTIONS FOR MOBILE OPERATION (WITHOUT PUSH-TO-TALK)

POWER CONNECTOR PIN OUT:

PIN 1	**Ground (Car body)**
Pin 2	**All modulator/audio filaments (jumper to pin 3)**
Pin 3	**Power on-off switch out and RF filaments**
Pin 4	**B+ High Voltage**
Pin 5	**no connection**
Pin 6	**Microphone Push-To-Talk (makes to ground) (also connects to MG and antenna relay coils)**
Pin 7	**+6 Volts from car battery (jumper to pin 8)**
Pin 8	**+6 Volts from car battery (jumper to pin 7)**

MICROPHONE CONNECTOR PIN-OUT:

PL-68 TYPE 3 CIRCUIT PHONE JACK

SHIELD	**GROUND**
RING	**CARBON MICROPHONE ELEMENT**
TIP	**Push-To-Talk switch (makes to ground)**