

# 88-108 MHz 20 Watt Power Amp

- กับสามหารณาและสิ่งสามารถเป็นการแก่ กา

# WARNING!

## DO NOT POWER AMP WITHOUT A SUITABLE 50 OHM BAND II ANTENNA OR DUMMY LOAD CONNECTED TO RF OUT SOCKET

#### SETTING UP PROCEDURE

- 1. Tune up the 500mW to 1W Transmitter Drive on a 50 ohm Dummy Load for maximum power at your chosen operating frequency.
- 2. Remove the 4 Pozidrive Screws on the Power Amp Heatsink and lift off the Metal Cover. Adjust the Power Amp yellow variable capacitor to mid position.
- 3. Connect a 50 ohm Antenna to the Power Amp SO239 RF OUT Socket.
- 4. Remove the power from the Transmitter Drive. Use a short PL259 patch lead to connect the Transmitter Drive to the Power Amp SO239 RF IN Socket.
- 5. Connect the Power Amp to a 13.8V Regulated Power Supply capable of delivering a continuous 3 amps. The Red LED should illuminate indicating the presence of DC to the Power Amp.
- 6. Power up the Transmitter Drive and the Power Amp Green LED should illuminate, it may be dim.
- 7. Adjust the Power Amp yellow variable capacitor for maximum brightness on Green LED.
- 8. Slightly adjust the output tuning on the Transmitter Drive for a further brightness increase on the Power Amp Green LED.
- 9. Remove the power from the Transmitter Drive and Power Amp and then replace the Power Amp Metal Cover and 4 Pozidrive screws.
- 10. The Power Amp and Transmitter Drive are now tuned to maximum power and ready for use. Position the Heatsink Fins and the SO-239 sockets in an upwards direction for best cooling under normal operation.

### SPECIFICATIONS

RF Power Output Performance:

PSU	Drive Power	Output Min.	Output Typ.
13.8v	500mW	17W	20W
13.8v	1W	20W	24W
16.0v	1W	24W	29W

RF Gain: Frequency Range: Spurious Emissions Impedance Min 13dB Max 16dB 88-108MHz +/- 0.5dB Better than -50dB ref to carrier 50 ohm input and output Max RF Input: RF Input VSWR: RF Connectors RF Stability Power Supply: Supply Current Ruggedness: Indicators Dimensions Power Lead 1W Max 1.7 2 x SO239 stable up to 10:1 mismatch 13.8v DC regulated, 16V max. 2.5 to 3 amps continuous 30:1 VSWR mismatch capability RF Power LED, DC Supply LED 120mm x 100mm x 62mm 0.5m 10amp red and black

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