MOBAT Communications

HF-SSB MICOM-500E Model G761AA / G762AA

This manual is an appendix to the Micom 2E-Trunk Owner's Manual 6802952C60

HF-SSB
MICOM-500E

Owner's Manual

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HF-SSB MICOM-500E COMPONENTS

1. MICOM 2E-Trunk

For Micom 2E-Trunk specification see user manual 6802952C60

2. 500W HF Linear Amplifier Unit

Input Voltage:	14 VDC
Power Output:	1.6-30MHZ: 500W PEP and average
	24-30MHz reduced performance up to –2dB.

The power amplifier is fully protected by microprocessor control. This circuitry dynamically monitors all amplifier parameters, and provides adjustments and protection against high VSWR, under voltage, over current and high temperature conditions.

Current- protection against over current condition (exceeding 100 amps) and current imbalance between amplifier modules (exceeding 20%). When one of these two conditions exists, the amplifier turns off-line. To reset the transceiver, power down the amplifier and restart the unit.

Volt - protection against under amplifier turns off-line. To reset the transceiver, power down the amplifier and restart the voltage condition (less than 10 VDC). When this condition exists, the unit.

VSWR – when a sampled VSWR exceeded 4:1 and the power reflected back to the amplifier is higher than acceptable, the amplifier turns off-line. To reset the transceiver, power down the amplifier and restart the unit.

Temp - protection against over temperature condition

Atten – as input RF power level increases beyond 60-70 watts, the attenuation increases automatically. The Attenuate remains engaged until the input drops to 30 watts.

ALC Control- provides adjustable ALC feedback voltage.
A positive voltage is present on the Amplifier line for use with the equipped transceiver for ALC input control.

PTT keying mode and Band input filter selection enabled automatically. Band switching time is typically 15 msec or less.
This automated capability is ideal for remote or unattended operating site application.

3. DC Power Supply

Model:	EWS1500-15
Nominal Output Voltage:	15V
Maximum Output Current:	100A
Maximum Output Power:	1500W
Input Voltage Range:	85~132 VAC / 170~265 VAC (Selectable), 47~63 Hz

110/220 VAC power supply - if need to convert the power supply from 220VAC to 110VAC, please detached the 110/220VAC panel at the rear panel of the unit and short the A and B terminals.

The ON/OFF switch on the front panel of the unit, enables to turn the power supply output on and off.
Note that, when the dc output power supply is on OFF mode, the internal power supply fans still work.

4. Junction Box

The junction box enables the connection of up to four external devices simultaneously, in addition to headphone, to the accessory port of the MICOM –2 (e.g. modem, phone patch.)

Potentiometers adjust - Potentiometers are used to adjust the received audio levels (one of each connector). Each potentiometer is associated with a connector as follows:

ACC. -J1: RX1
ACC. -J2: RX2
ACC. -J3: RX3
ACC. -J4: RX4

The potentiometers are located on the rear panel of the MICOM-500E.
For more details see Service Manual 68P02952C55

INTERCONNECTION WIRES AND CABLES