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Mini Magnum Owner's Manual

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MINI MAGNUM

INSTRUCTION MANUAL

SPECIFICATIONS

TRANSMITTER SECTION

POWER OUTPUT 5 Watt Carrier / 15 Watt PEP (at 13.8V DC)
EMISSION A3E (AM)
SPURIOUS RESPONSE REJECTION All harmonic and spurious suppression greater than FCC requirements
MODULATION AM 95%

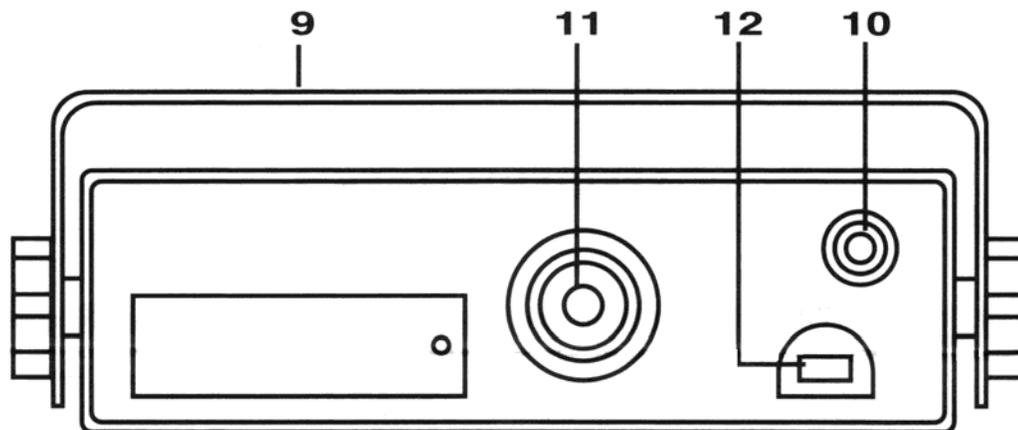
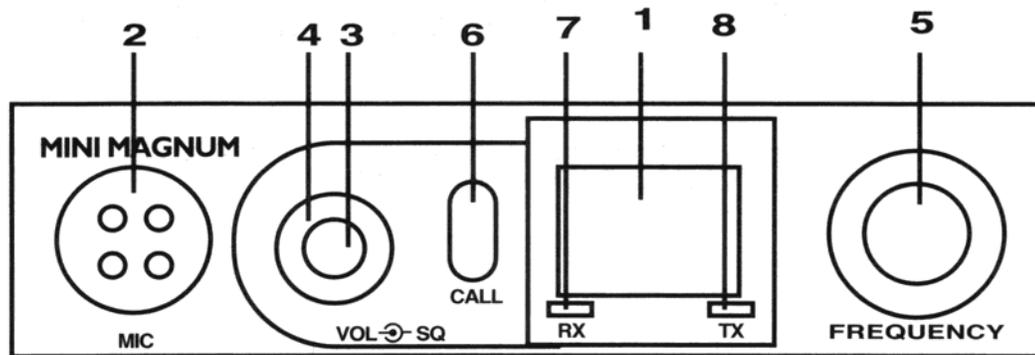
RECEIVER SECTION

CIRCUIT TYPE Dual conversion superheterodyne with RF stage and 455 KHz ceramic filter
FREQUENCY 1 crystal-controlled PLL, 28.000 ~ 29.690 MHz
SENSITIVITY $1.0\mu V$ for 10dB S/N
SQUELCH RANGE 1 mV
SELECTIVITY 60dB down at +10KHz
IF FREQUENCY..... 1st IF : 10.695 MHz 2nd IF : 455 KHz
IMAGE REJECTION 55dB
AUDIO OUTPUT 2.5W maximum at 8 ohm load
CURRENT DRAIN 250mA on standby (no signal)
CURRENT DRAIN (MAXIMUM) Less than 1.8A

GENERAL SECTION

ANTENNA Nominal 50 ohms impedance
POWER SOURCE Operated from nominal 13.8 volt DC, negative ground system
DIMENSIONS 130(W) x 34(H) x 137(D)
WEIGHT 1.4Kg
FREQUENCY RANGE 28.000 ~ 29.690 MHz
FREQUENCY P.L.L. Controls

OPERATING CONTROL and FEATURES



1. L.E.D. DISPLAY

L.E.D. (Light Emitting Diode) indicates the frequency selected by Rotary switch.

FREQUENCY INDICATION - When the PTT Key is pressed the display shows the MHz position of the operating frequency (example: 29.30 MHz shows 29). After 0.5 seconds of pressing the PTT Key, the display changes to show the kHz position of the operating frequency (example: 29.30 MHz changes to show 30).

2. MICROPHONE INPUT

4 pin socket for push-to-talk microphone.

3. ON/OFF/VOLUME CONTROL

Controls output from the built-in speaker, or external speaker connected to the "EXT SP" (rear of transceiver). Incorporated "ON/OFF" power switch at the extreme COUNTERCLOCKWISE position.

4. SQUELCH CONTROL

Used to quiet the receiver during absence of receive signals. Sensitivity to incoming signals is fully adjustable.

5. FREQUENCY ROTARY SWITCH

This ROTARY switch selects one of frequency for transmit and receive operation.

6. CALL SWITCH

Push one of the operating modes: CALL (29.300 MHz)

7. RX INDICATE

This lamp will be lighted during receiving mode.

8. TX INDICATE

This lamp will be lighted during transmitting mode.

9. MOUNTING BRACKET

Bracket simplifies installation for removal of unit.

10. EXTERNAL SPEAKER JACK

Impedance of any device such as headphone connected to this jack should be 8-16 ohms. Insertion of plug into jack automatically silences the transceiver internal speaker.

11. ANTENNA CONNECTION

To match antenna lead-in cable (RG-58/U or RG-8U) with PL-259 type coaxial connector.

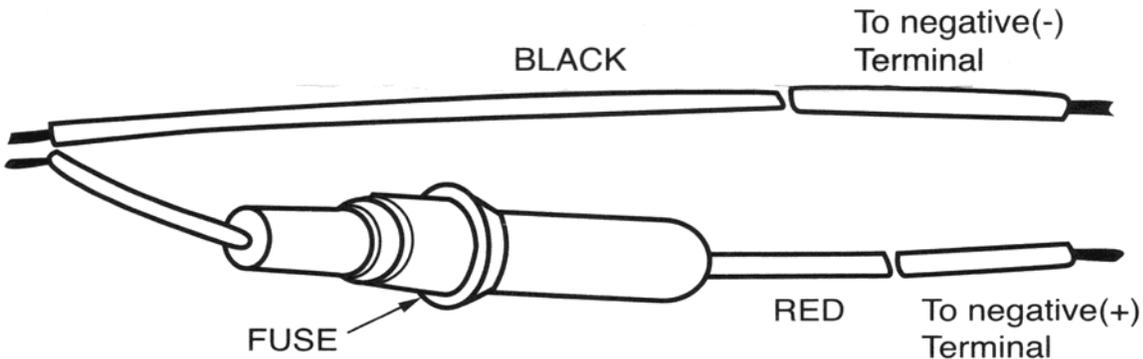
12. DC POWER CABLE

12 volt DC for transceiver supplied.

TRANSCEIVER INSTALLATION

DC POWER CONNECTION

The transceiver is designed to operate from a battery source of 11.5 to 14.5 volts DC, employing negative of ground electrical systems. The fused DC power cable supplied is used to make the necessary power connection to the transceiver. Red lead is connected to positive (+) side of the electrical system and the black lead is connected to the negative (-) side of the system.



CONNECTING DC POWER CORD

IMPORTANT : DC VOLTAGE AT THE TERMINAL SELECTED ON THE FUSE BLOCK MUST BE AT LEAST 11.5 VOLTS FOR PROPER OPERATION.

ANTENNA CONNECTION

The lead-in cable from the CB antenna must be terminated with a PL-259 type male connector. Attach to the matching antenna input connector at the rear of the transceiver.

MICROPHONE BRACKET

Attach the microphone bracket provided to any convenient location.

MICROPHONE CONNECTION

Insert the 4 pin plug at the end of the coiled into the microphone socket.

**DO NOT TRANSMIT WITHOUT AN ANTENNA
CONNECTED TO THE TRANSCEIVER**

IGNITION INTERFERENCE

Normally the suppression on modern automotive engines is adequate to prevent annoying interference to your HAM transceiver. If it does not, consult your dealer who will recommend additional suppression measurements.

RECEIVING

1. Select desired frequency using the frequency Selector Switch.
2. Set squelch control to the downward position.
3. Press "ON/OFF" switch, to apply power. Operation will be instantaneous.
4. Set the VOLUME control to a comfortable listening level (approximately 1/3 setting). The receiver is now ready to operate.

SQUELCH ADJUSTMENT

The squelch control eliminates annoying background noise in the absence of signals. To adjust the SQUELCH control properly slide up VOLUME until background noise is heard. Turn the SQUELCH slowly until the background noise just disappears. At this point the receiver will be quiet under "no signal" conditions, however a reasonable strength incoming signal will overcome the squelch action and be heard. As the control is advanced the squelch action is progressively increased and stronger incoming signals are needed to overcome it. To receive weak signals or to disable the squelch circuit, turn the control fully counter clockwise.

EXTERNAL SPEAKER JACK

Recommended plug for the EXT SPEAKER jack is "MINIPLUG" subminiature phone plug. The impedance of earphones or speakers connected should be 8-16 ohms. Insertion of a plug to EXT. SP. JACK will silence the internal speaker.

TRANSMITTING

To transmit, depress the push-to-talk button on the microphone. The Red Transmit Indicator light will come on. Use the microphone like a telephone speaking several inches from the face. Do not shout, use a normal speaking voice. When you are transmitting, the receiver is silenced and reception is, therefore, impossible. In the same way, your signal cannot be heard by another station when he is transmitting-each must take turns. To receive again, simply release the microphone push-to-talk button.

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