

MAGNUM S-680 Owner's Manual Addendum - March 2006

Microphone Amplifier Circuit - Gain Level

The Magnum S-680's microphone amplifier circuit gain level has been set at the factory for an aftermarket noise-cancelling microphone. If the gain level requires further adjustment, remove the echo board mounted to the side chassis of the radio (in front of the toroidal DC input choke) and adjust VR-1 located on the echo board to the desired setting.

Transmitter Section Audio Level Adjustment

The transmitter's audio level is adjusted by VR-14. For maximum transmitted audio output adjust VR-14 to the full clockwise setting.

Transmitter Specification Updates

Power Output AM: 1-18 Watts Carrier / 75+ Watt PEP*
FM: 1-18 Watts

Transistors Drive Stage: ERF-2030 (x2)
Final Stage: ERF-2030 (x2)

* These specifications were obtained under the following test conditions:

Power Source: Regulated DC Power Supply

Operating Voltage: 13.9 V DC

Wattmeter: Bird 43 Thruline Wattmeter with 4300-400 Peak Power Conversion Kit and 25-60MHz, 100W Element

Test Procedure Notes:

- This transceiver uses ERF-2030 MOSFET RF Power Transistors.
- The ERF-2030 transistors develop their **MAXIMUM** power output under HUMAN VOICE test conditions.
- When measuring power output of this transceiver it is **NOT** recommended that a 1 kHz tone or whistle be used - these tones do not accurately simulate normal speech levels and will not provide accurate power output measurements.
- When measuring the power output of this transceiver, it is recommended that the word "four" be said into the microphone in a long, drawn-out manner - "Fourrrrrrrrrrr".