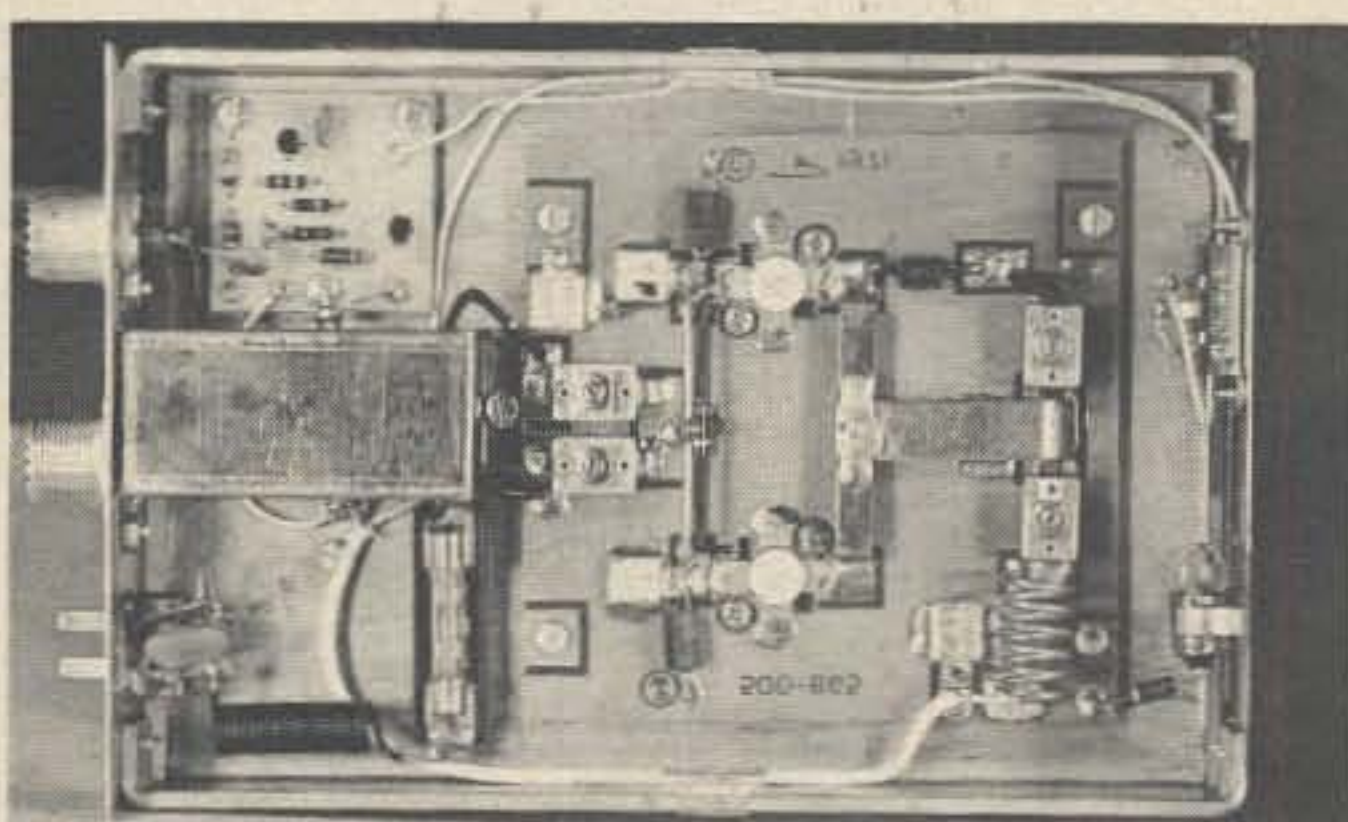




73 REVIEWS THE REGENCY AR-2 2-METER FM AMPLIFIER

If the growing number of manufacturers of power amplifiers for 2 meters, only two (as of this writing) are very conservatively rated on the input and output ratings of their amplifiers. One is on the west coast and the other is Regency in Indianapolis, Indiana. Regency again has followed the tradition started in the HR-2/2A transceivers of being very conservative on power ratings. They rated the HR-2 at 10 watts. It put out at least 12. They rated the HR-2A at 15 watts. It puts out almost 18.

The new AR-2 is made in a matching size and style to be a companion to the HR-2/2A transceiver. When you pick it up, you would think it was made of lead. It's hefty, yes, but not from lead: copper is the name of the heat sink material that is used. The AR-2 is literally an amplifier built on, or almost in, a huge copper heat sink. Does it get hot while transmitting? Not with PTT operation. With 10 watts input, Regency rates the amplifier at 38 watts output — ours put out 44. With 15 watts input, the AR-2 put out 58 watts, and with 17 watts input to it, out came a full 67 watts. That kind of power output coupled to your 3 dB gain antenna will let you talk to the machine on the mountain just about as far as you can hear it. And

would you believe that at almost 60 watts output (key down for an hour) this AR-2 barely gets above room temperature — that big heat sink really does its job. Even the collector output tank circuit is constructed of heavy silver-plated copper to better withstand the large rf circulating currents that are found in solid state amplifiers at these frequencies and power levels. The AR-2 uses 2 transistors in a Class C push-pull configuration. The transistors used are of the balanced emitter type with the new wide leads to provide low inductance lead runs. The AR-2 amplifier runs between 60 to 70% overall efficiency.

Installing the AR-2 is a breeze. Just connect 12V to it and plug in your antenna to the amplifier. Placing a short coax jumper between the transceiver and the amplifier completes the job. To tune the amplifier input up (to compensate for the input feedline lengths) it's best to have a Bird model 43 Thruline® or Model 4352 Ham-mate® watt meter. This is placed between the antenna lead and the AR-2. With the amplifier out of its case, key the transceiver and tune everything for maximum rf output. The amplifier switches itself in automatically when it senses watt or

Regency 2 Meter FM—American made at import prices

Get the American Made HR-2A 2 Meter Mobile FM Transceiver.

15 watts minimum output. Only \$229.00 Amateur Net.

Specifications

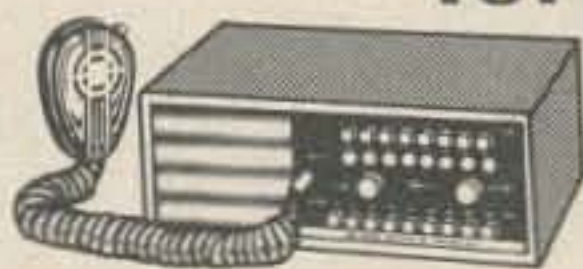
Power Output: 15 watts at
13.6 V DC
Frequency Range:
144-148 MHz
Channels: 6 transmit;
12 receive capability
Sensitivity: 0.35 μ v (nom.)
20 DB quieting
Spurious Rejection: 60 DB
Size: 2 1/2" x 5 1/2" x 7 1/2"



Model HR-2A

Mobile Unit. Includes microphone, mounting bracket, tx and rx crystals for 146.94 MHz

for all your 2 Meter FM needs



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Model AR-2 Amplifier boosts 2 Meter FM output power 300%. **\$119.00** Amateur Net.



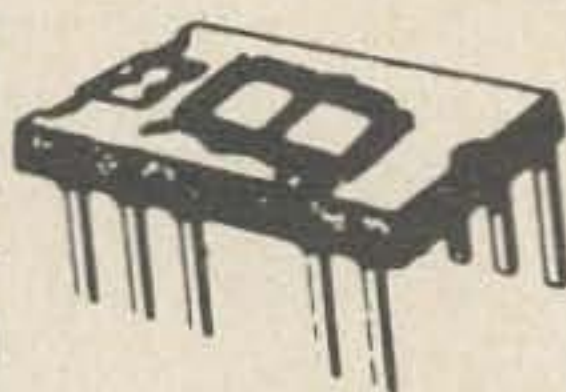
Regency Electronics, Inc.

7900 Pendleton Pike • Indianapolis, Indiana 46226

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7496, 8281, 7475	1.40
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more at its input. If you want to run barefoot for short, direct hauls, just turn the amplifier power switch to the off position. When the amplifier power switch is in the on position, a front panel red light comes on each time the amplifier is keyed.

Maybe quadrupling your output power won't quite double your range, but with the additional power your transmit range doesn't run out before your receive range does. All those marginal areas where you were noisy into the repeater disappear and now you are full quieting. If you are out in the boondocks or hilly areas like southern New Hampshire, that extra power really does make a difference.

For more information on the AR-2 write to Regency Electronics, Inc., 7900 Pendleton Pike, Indianapolis, Indiana 46226. The AR-2 amplifier is priced at only \$129. When you figure it out, that's only two bucks a watt output and that is cheap. Regency again has turned out a very nice unit at a modest price.

...W4FQM/1