

HAMTRONICS® A40 12VDC ADAPTER FOR RECEIVERS



The A40 Power Adapter is a handy accessory which can be used with any of the Hamtronics® Receivers as well as many other applications. Originally stocked here as a part of the RWX, RWWV, and R139 Receivers, it can be used with any of our receiver modules as a handy and inexpensive way to power them from 115Vac.

The adapter is rated for 12Vdc at 200 mA load. It is a filtered dc power source but is not regulated. Since

there is a voltage regulator on the receiver board, a regulated power supply is not necessary. (This is not necessarily true of exciters and other modules.)

The adapter actually puts out close to 18Vdc with no load and drops to about 15-16Vdc with the load a receiver presents. The audio amplifier ic on the receiver module is made to operate at these voltages, and the other circuitry is run from an 8Vdc regulator ic on the receiver module; so the unregulated voltage from the adapter is ok in receiver applications.

To install the adapter, clip the ends of the leads off and strip them about ¼ inch.

There are two versions of the adapter. One has black leads. In this version, the lead with the white trace is positive and the other lead is negative. Another type has white leads. In this version, the lead with the small

grooves molded into it is positive, and the smoother lead is negative.

⚠ *Caution: Be sure to observe polarity to avoid damaging the receiver module. If in doubt, plug the unit in and check it with a voltmeter before ever using it with the radio. Connecting the polarity backwards will certainly damage the radio.*

The stripped leads can be soldered to the + power input and ground terminals of the receiver. If there is no ground terminal, solder the negative lead to the ground plane on the top of the board.

If the receiver is in a cabinet, it is easy to drill a small diameter hole in the rear panel just large enough for the dc power cord to pass through. You can tie a knot in the cord inside the cabinet for strain relief. If desired, a small switch can be added to turn the power on and off.