

The Five Dollar 12 Volt Power Supply*

*Batteries Not Included

This emergency power supply holds eight AA batteries that will provide voltage equivalent to plugging in your hand-held radio into the cigarette lighter or 12 volt socket in your car. It should work for any radio that works with a car charger. It is intended for emergency use and not for long term operating. You may have slightly lower voltages than 12 volts if you use rechargeable batteries but the voltage will still be adequate to power your hand-held radio.

There are three parts to this power supply. All of these are normally carried by electronics supply companies. The part numbers given below are from Radio Shack®. The power plug listed below is compatible with Yaesu® hand-held radios for amateur radio bands. This will work for other styles of radios, but you will need to verify what the correct plug to use with your radio. The parts are (see photo #1):

- AA Battery Holder (part number 270-387 or 270-407, list price \$2.59 each, either part number will work)
- 9 volt Battery Snap Connector (part number 270-0324 or 270-0325, list price \$2.99 for a package of 5, either part number will work)
- Coax Style DC Power Plug (part number 274-1532, list price \$3.19 for a package of 2)



Photo #1 showing (from left to right) snap connector (270-0324), power plug (274-1532), and battery case (270-387).

Instructions for assembling the power supply:

- Twist the black back shell off of the power plug.
- Feed the black and red wires from the snap connector through the back shell so that the back shell will screw on after the wires are soldered on (see photo #2).



Photo #2 showing power plug disassembled and leads routed through backshell

- Solder the red lead to the center post of the power plug. Ensure the red wire and solder do not contact the outer post or the black wire.
- Solder the black lead to the outer post of the power plug. Ensure the black wire and solder do not contact the center post or the red wire.
- Lightly crimp the rear part of the power plug around the red and black wires (to provide strain relief for the wires.) Do not crimp so tight that the wire insulation is damaged (see photo #3).

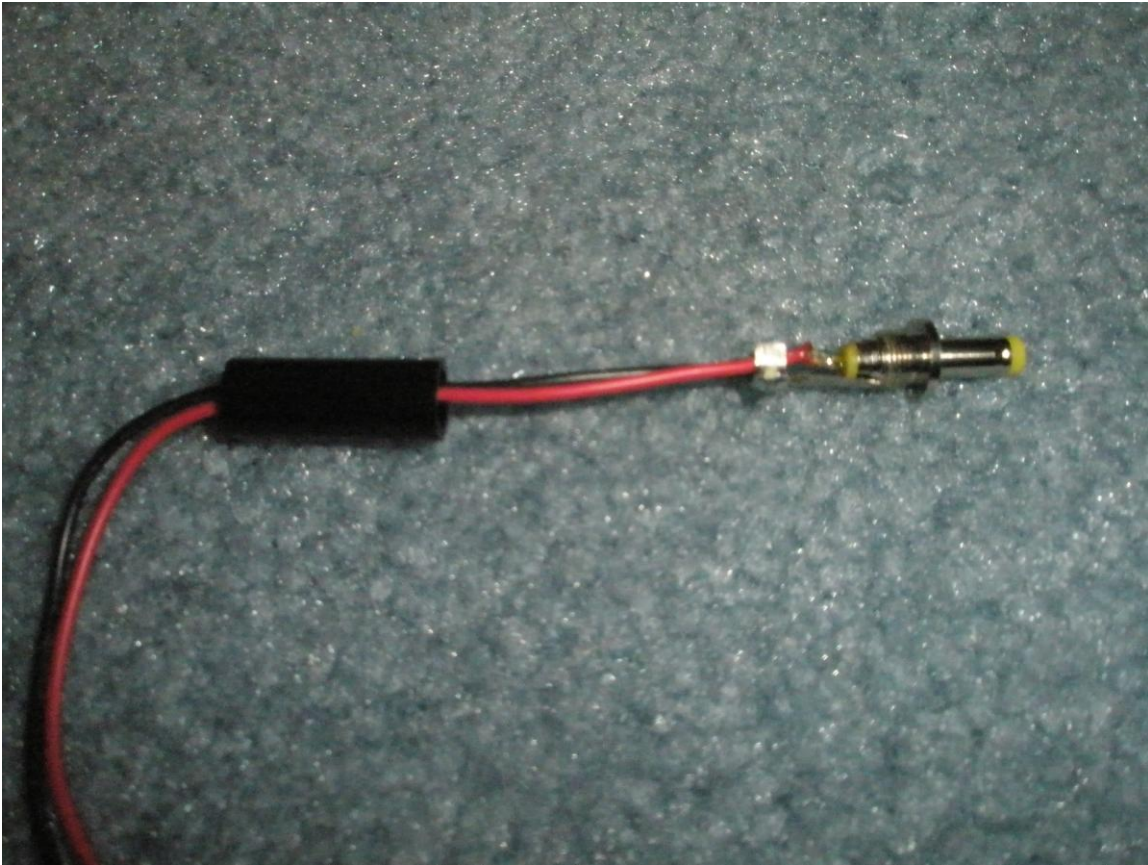


Photo #3 showing leads soldered and wires crimped for strain relief.

- Screw the back shell onto the power plug.
- Snap the connector onto the mating terminals on the battery holder (see photo #4).

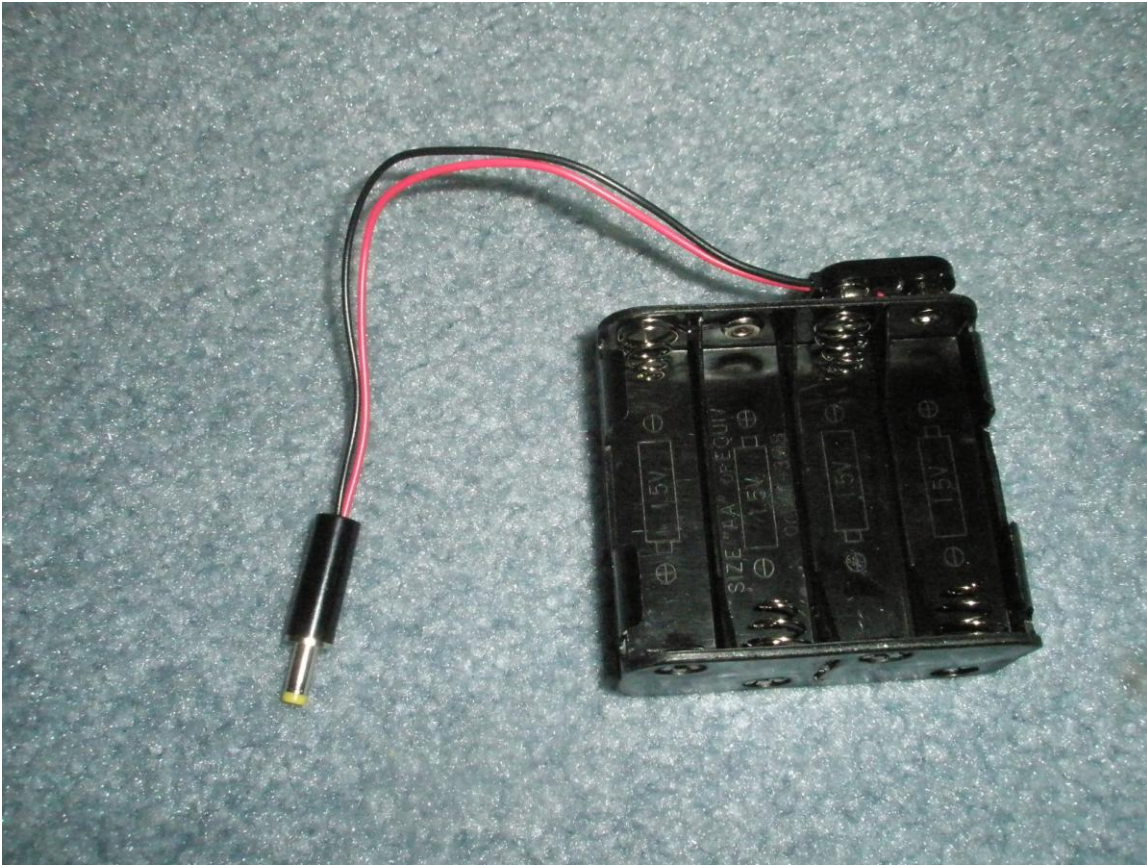


Photo #4 showing completed power supply.

- Install eight AA batteries following the pattern shown on the battery holder.
- Connect to your radio through the 12 volt connector.

That is all there is. Prices quoted were valid as of February 2012 and do not include shipping charges or taxes.

73s
Terry
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