
INSTRUCTIONS:
Adding an AUX input to LM
Corvair AM/FM Radio.

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Radio As Received

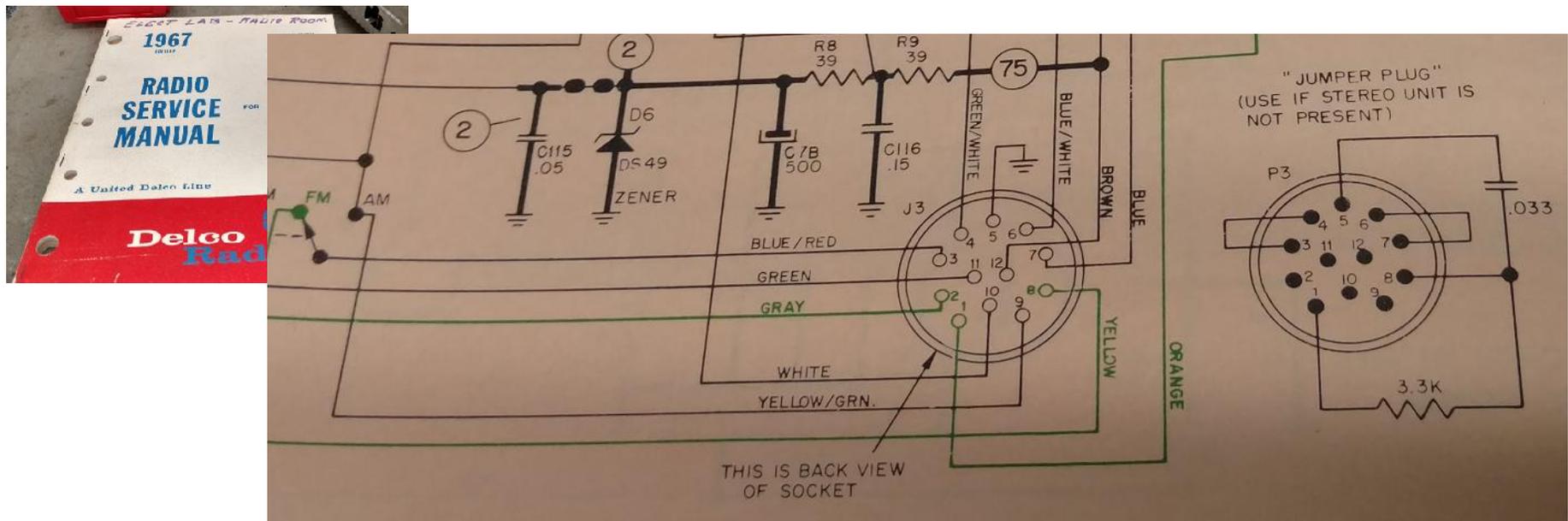


Shorting Plug

This instruction will show you how to connect an AUX input jack to the Late Model Corvair AM/FM radio with shorting plug in place ONLY. If you are using a multiplex unit with your radio, the AUX input should be added to the multiplex unit to allow stereo input. Use these instructions at your own risk- JCCRC is not responsible for any damage you do to your radio, car, self, family, pets, home or planet while using these instructions.

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Schematics



Pulling the schematic from the 1967 Delco radio manual (1965 is similar) we will focus on the Stereo plug. This picture shows the AM/FM switch on the far left. The switch takes Audio from the AM or FM section and sends it to the Audio section using the "BLUE/RED" wire connected to Pin #3 of the socket. This "Blue/Red" wire is where we will connect the AUX input.

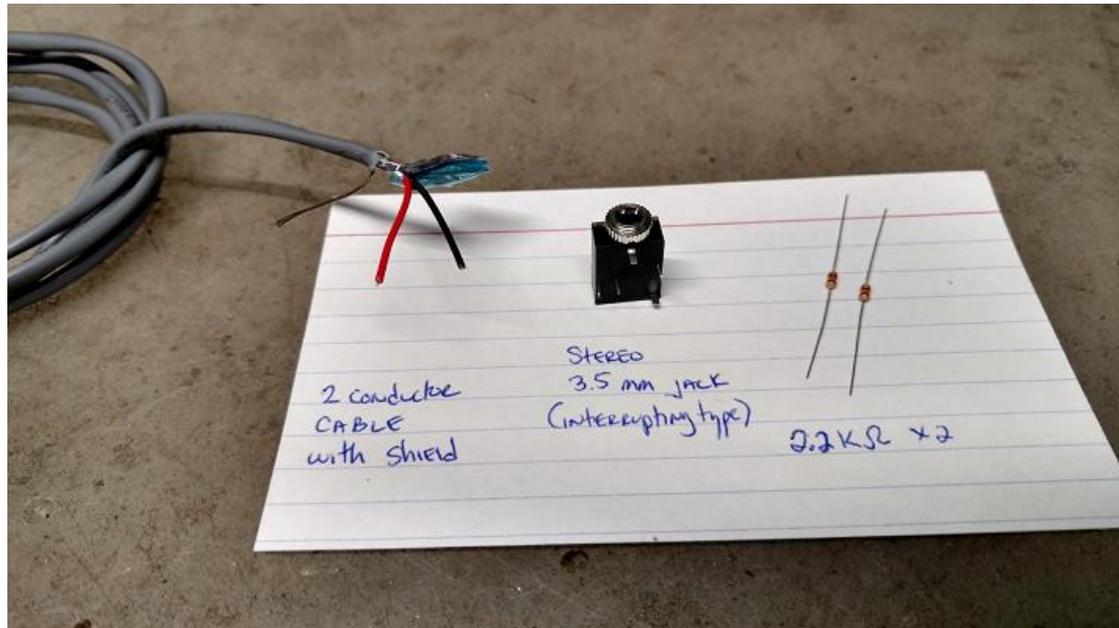
**special Note- If you do not have the shorting plug for your radio, you can build one using the diagram on the right of the page (Jumper Plug)

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Parts Needed

These are the parts that JCCRC will be using for this modification

- 3ft of 2 conductor, SHIELDED cable.
- One 5 Pin Stereo 1/8" Headphone Jack (3.5 mm)
- Two 2.2K ohm resistors- ¼ watt



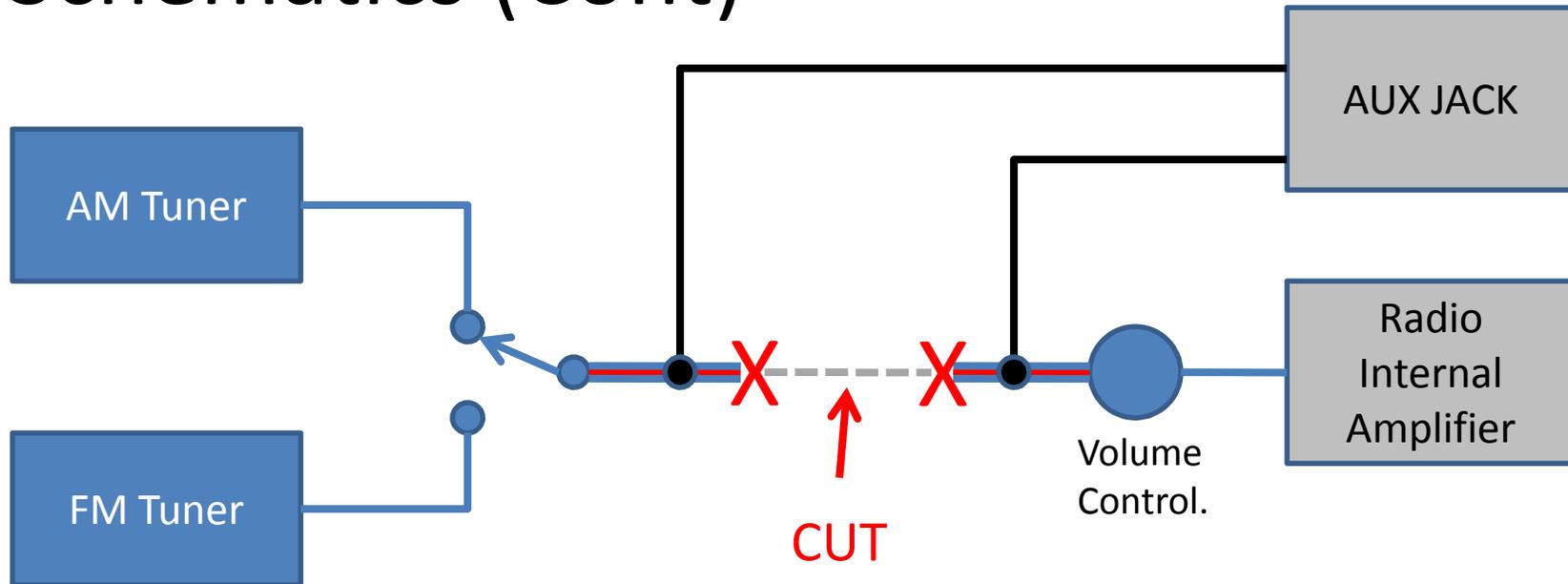
Optional Parts

- CAT5 Ethernet Sleeve
- Heat Shrink
- Wire Clamp and Tie Straps



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Schematics (Cont)



This is a description of what we will be doing inside the radio. Basically you can see here a simplified block diagram of the radio. The AM Section or FM section is selected by the AM/FM switch and sent by the "Blue/RED" wire to the Volume control. The volume control then feeds the Amplifier section.

We will cut this "Blue/Red" wire to insert the AUX jack.

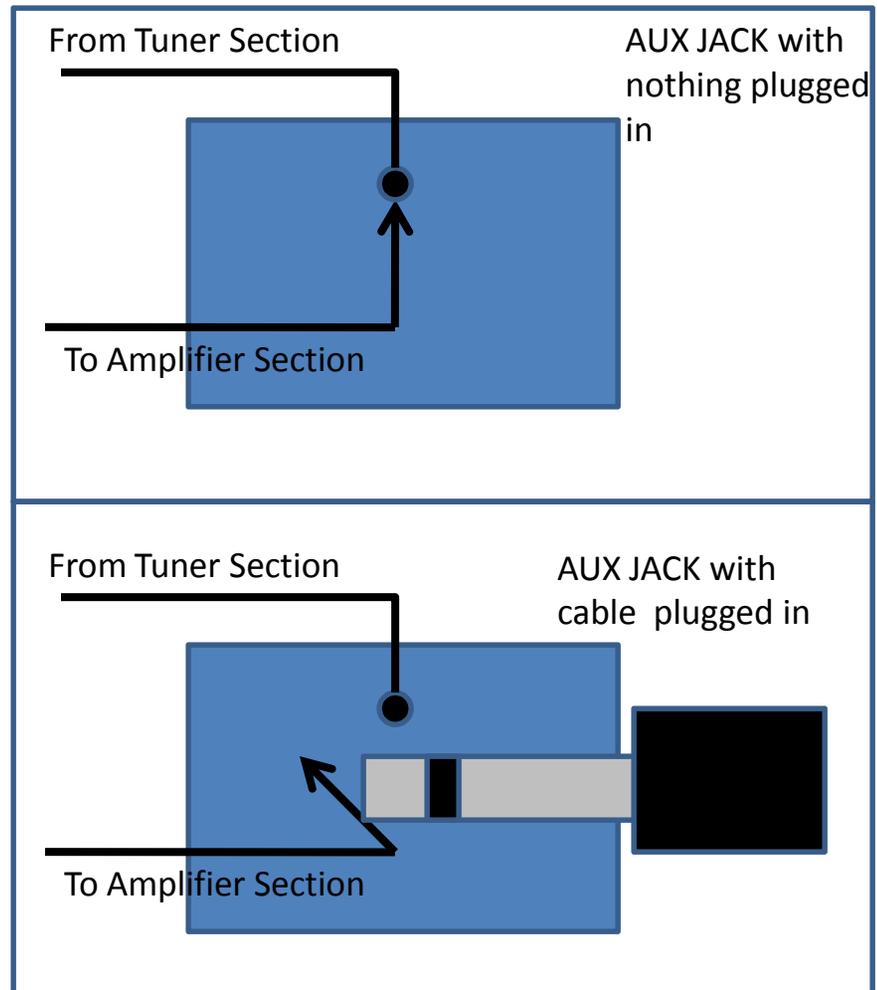
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Schematics (Cont)

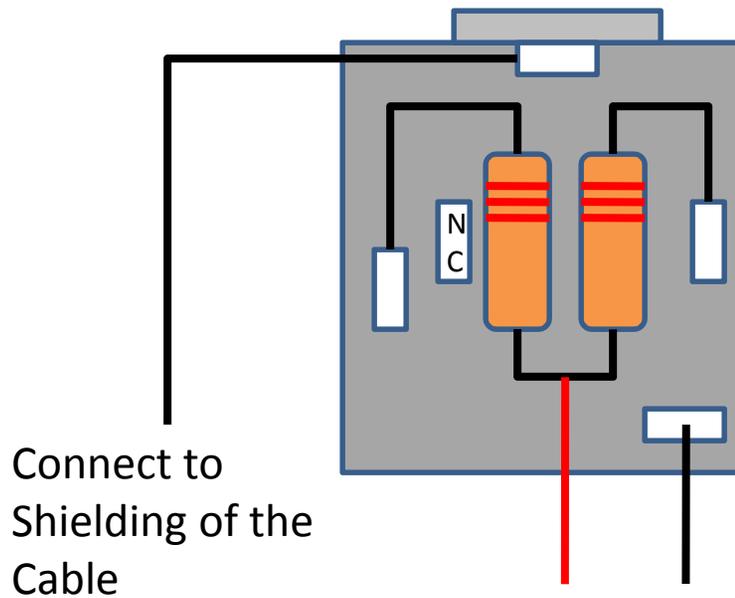
This is a simplified diagram of how the aux jack works.

With nothing plugged in to the jack, the tuner section wire is connected to the Amplifier section wire.

With an AUX cable plugged into the jack, the tip of the cable pushes the connection open so the tuner section is no longer connected. The tip of the AUX cable is now in direct connection to the radios amplifier section allowing the music from your AUX source (iPod, phone Ect) to pass directly to the Radios internal Amplifier.



Wiring the AUX Jack

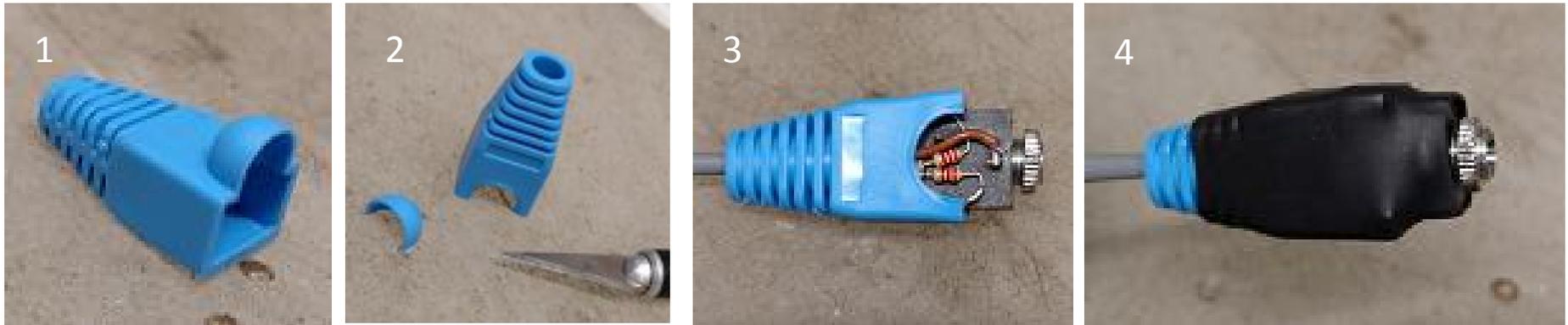


Here is the connection of the resistors and cable to the headphone jack.

Note the wire colors- They will be important when you connect inside the radio.

* "NC" shown in the diagram stands for No Connection. Do not connect anything to this pin

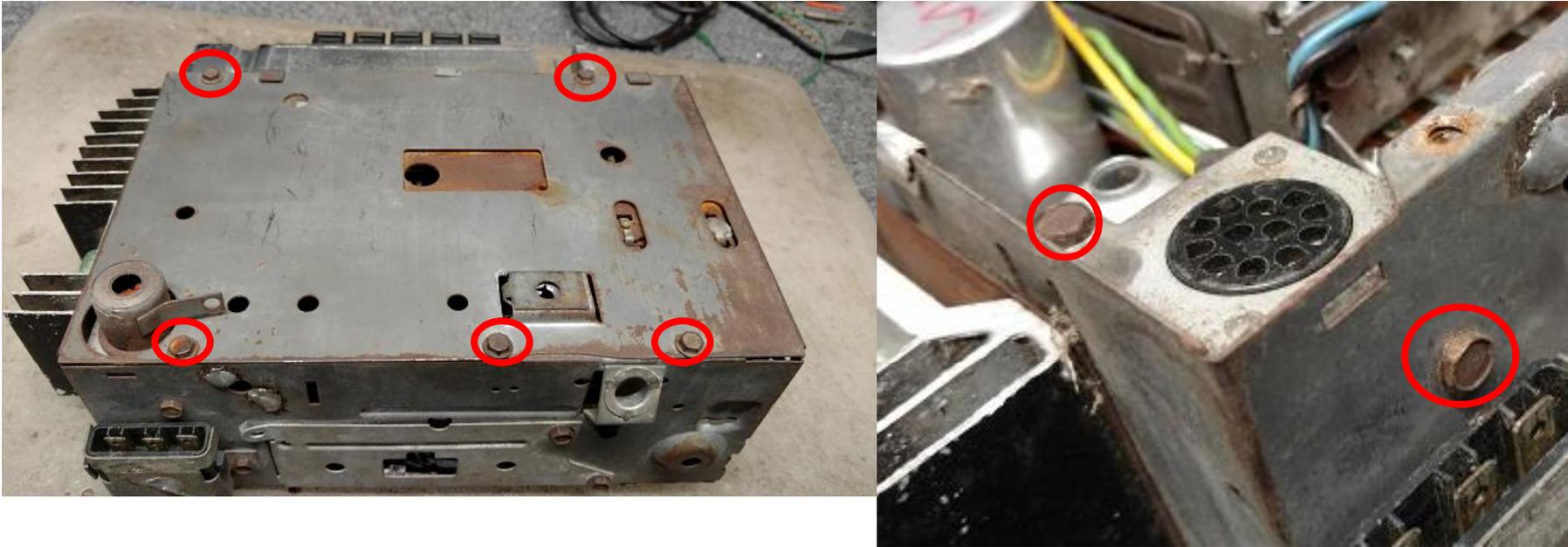
Jack Cover (Optional)



This is a good way to protect the jack after everything is connected. This is optional

1. Using a CAT5 ethernet cable Sleeve
2. Cut off the “bump” with a razor
3. Slide over cable and insert the AUX jack as far as it will fit.
4. Cover with a piece of Shrink wrap

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On the bottom of the radio, remove the shorting plug by pulling out on it. remove the 5 screws holding the bottom cover on and remove the bottom cover

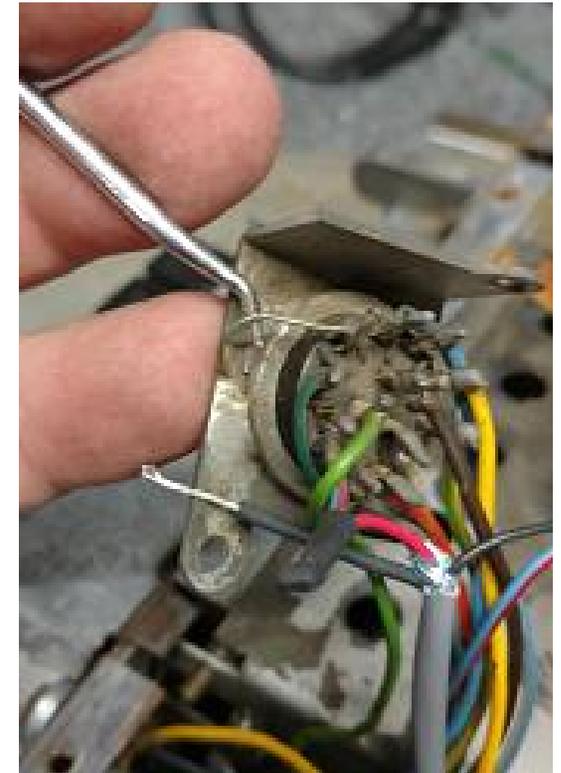
With the cover removed, remove the 2 screws holding the shorting plug socket.

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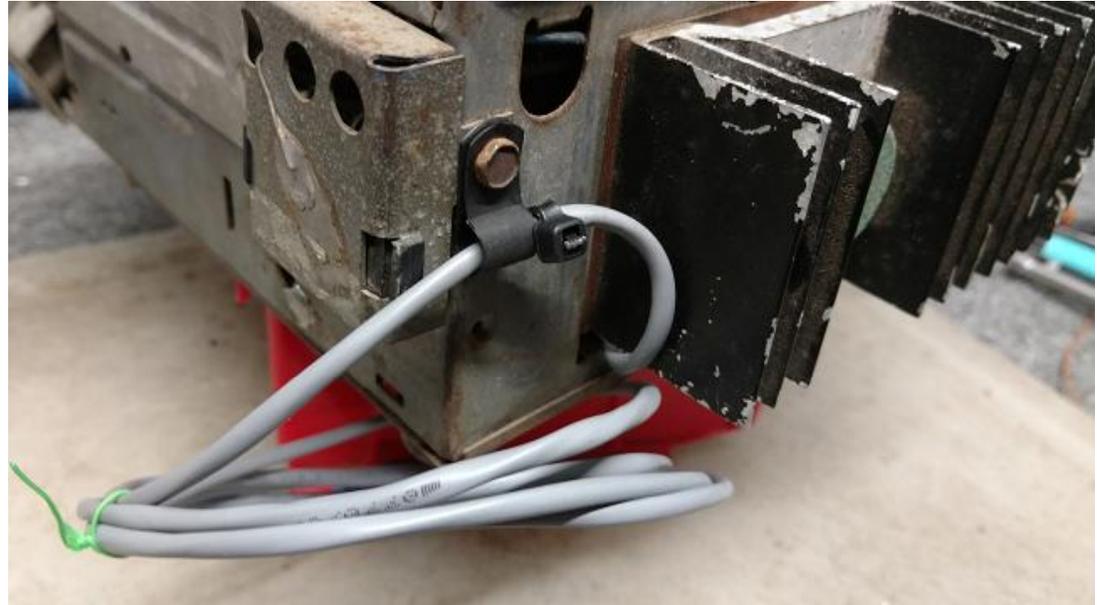
Lift out the socket to gain access to the wires.
Locate the Blue wire with a red stripe.
Cut the wire leaving enough wire on each side to connect to.

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Run the cable into the radio near the heat sink like shown in the left picture. Connect the Red Wire to the Socket side, and the black wire to the other side. **SOLDER THE CONNECTIONS!** Put heat shrink over the connections. Next add some heat shrink over the shield wire to avoid shorting. Locate the small ground strap on the socket (right picture) and connect the shield wire to it. **SOLDER IT!**

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Tie strap the cables together (left picture) and re-mount the socket to the radio using the two screws.

Re-install the bottom cover using five screws and plug shorting plug back into radio

Optional- Remove one screw holding the power connection cover. Place a wire clamp in the wire and secure it to the radio using the single screw. Add a tie strap before the clamp as strain relief (Right Picture).

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Install Complete- Testing.



Connect the radio to power, speaker and antenna. With nothing installed to the AUX jack (Left Picture) turn the radio on. Radio should play a radio station. Verify the volume control adjusts the sound up and down.

Now plug an AUX cable into the jack (Right Picture)- The radio should stop producing sound. Connect an iPod/Mp3 player ect to the other end of the AUX cable and press play. You should hear the AUX source playing through the radio. Verify the volume control adjusts the sound up and down.

YOU DID IT!! Now enjoy your newly modified radio!

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Troubleshooting

- No Sound From Radio in Radio Mode or AUX Mode
 1. Shorting plug not fully inserted into radio
 2. One or both wires broken loose at AUX jack
 3. One or both wires broken inside radio
 4. Connected to wrong wire in radio
- Radio works but no sound from the AUX source when plugged in.
 1. Red/Black Wires Backwards on AUX jack
 2. Defective AUX Jack- Replace.