

# Range Rover L322 Bluetooth Headphone Upgrade

## Parts required

(Examples linked)

### Loom connector:

[AMP 9-1419166-0](#) GET 1x8 male connector

[AMP GET Terminal Pins](#)

### Audio:

[2x Bluetooth transmitters](#)

(note: you may want to buy different models so they have different Bluetooth names, otherwise it will be hard to know which is left and which is right)

[3.5mm phono extension cable](#)

(note: a cable comes with each Bluetooth transmitter)

### Power supply:

[12V to 5V step-down buck converter](#)

[USB A female connectors](#)

### Miscellaneous:

DC power cable (optional)

Heatshrink (optional)

Crimp connectors (optional)

## Tools required

Soldering iron

Pliers

Crimp tool (optional)

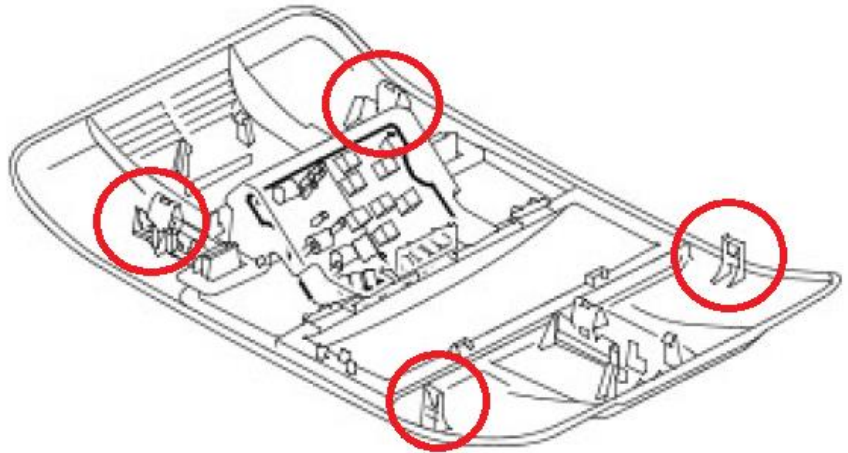
Trim removal tool

## Step 1. Remove overhead console

Use a trim removal tool to unclip the headphone transmitter from the roof.

It is held on by four tabs.

Disconnect the light module cable and the headphone transmitter module cable.



## Step 2. Remove the IR headphone transmitter module

This simply unclips from the trim piece.

## Step 3. Make two audio cables

Cut one of the short jack extension leads in half and strip the wires.

Crimp and/or solder a GET pin on to the end of each wire. Even if you are just crimping the connector, it helps to tin the wire first with a bit of solder.

Note: I have used red and green heatshrink to show me which cable is for the left screen and which is for the right screen.

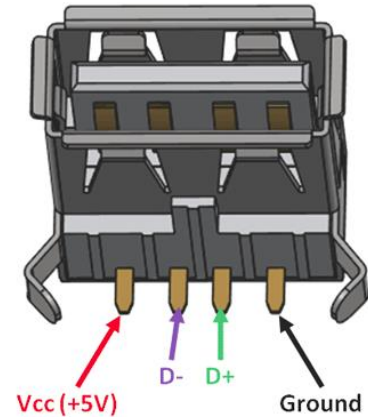


## Step 4. Make the power supply cables

Crimp and/or solder a GET pin on to the end of the power supply's 12V side. I used an extra bit of cable here, with a spade and bullet connector to make connection and removal easier.

Make up a pair of USB female A connectors. You only need the +5V and Ground pins, ignore the data pins.

Connect these two cables to the +5V side of the power supply. I used Wago connectors, but any suitable connection will do.

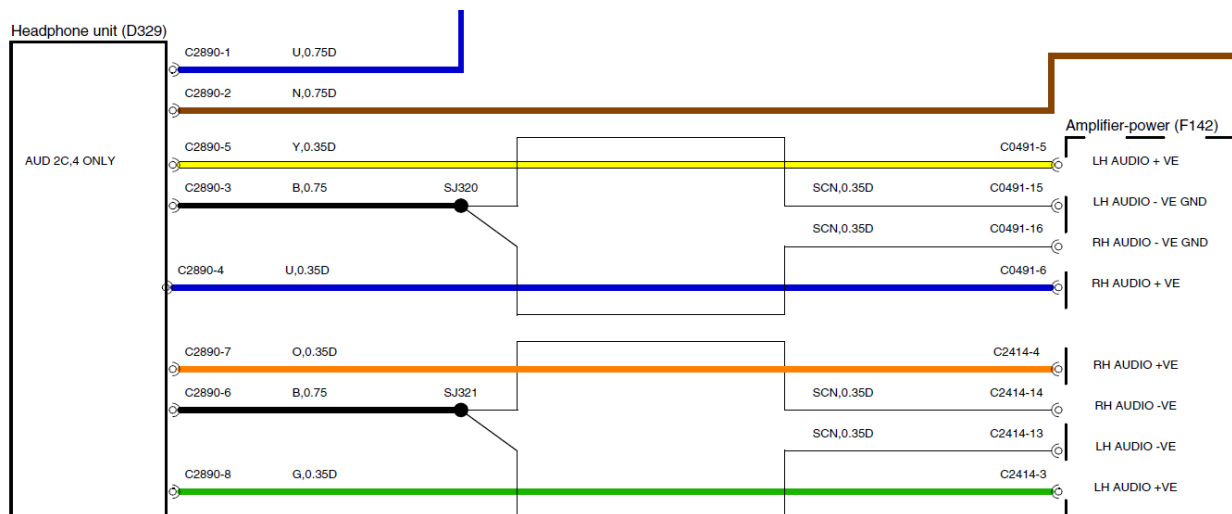


## Step 5. Make the wiring loom connector

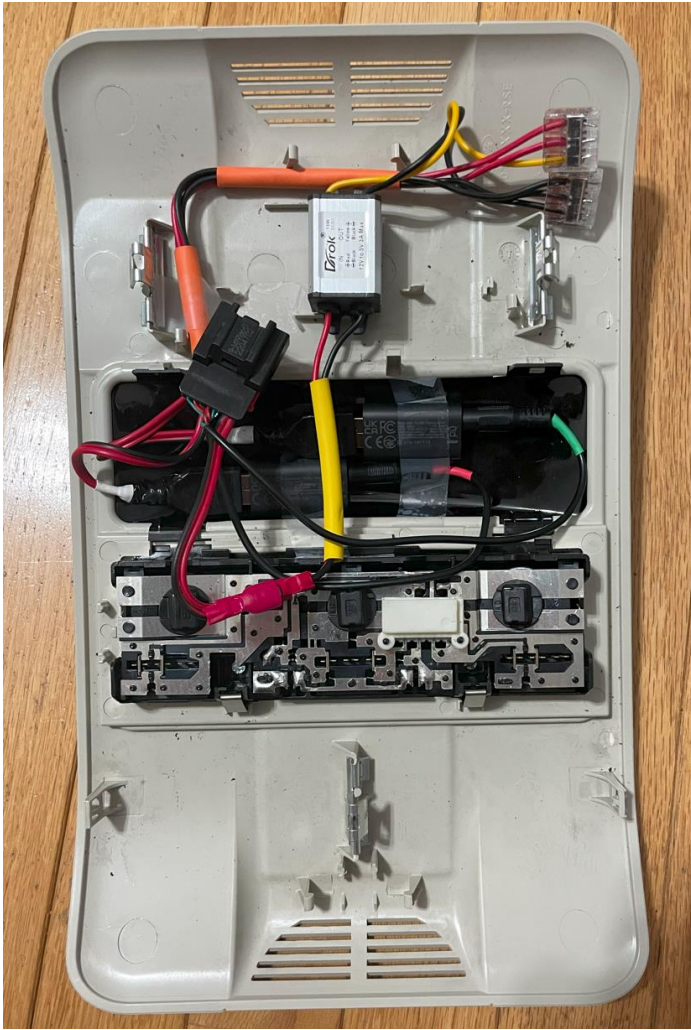
Insert the pins into the back of the AMP connector. The pins are:

1. Power +12V
2. Power ground
3. Right screen ground
4. Right screen right ear
5. Right screen left ear
6. Left screen ground
7. Left screen left ear
8. Left screen left ear

Note: for some reason the left and right ears are swapped on each screen, don't know why!



Step 6. Assemble everything on the trim piece



Step 7. Reconnect the cables and replace the trim piece

Job done!