

# Muddy's Web Site

## Passionate About Scooby's



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## diy stuff

### DIY Earth Mod

This particular modification has become quite popular in the Subaru Community.

So because of this I tried it, and took pictures.

This modification is supposed to assist, help and better the current earth bonds that are currently situated in an Impreza.

This earth mod is particularly useful for older cars (+3 years) as original earth points may have become corroded.

Due to the design of the wiring of the Impreza, the functions of the car depend heavily on a good return to -Ve of the battery.

This modification will assist and better the original wiring and will also add earths to points in the vehicle that will benefit it's running even more.

1. I chose to do 8 earth points. You can chose as many or as little as you wish.

- Left strut turret
- Left front inlet manifold
- Alternator
- Front right inlet manifold
- Rear left inlet manifold
- Right strut turret
- Chassis
- ECU

2. I used 10mm cable with metal crimps.



I crimped the wires and soldered as well for extra conductivity (But crimping will suffice if you don't have a soldering iron).

I also used heat shrink over the end of the wire and the crimp.

3. I decided which point I was going to start with, and then measured the wire accordingly. I did this for each different point in turn. Crimping the wire as I went.

As can be seen in the pictures above there are various lengths required,

4. Next, it's just a case of undoing the existing bolts, fitting the new cable and redoing the bolts back up.

5. Route the new cables around the engine bay to the Battery area.



6. Once all cables are secure and in place. Cable tie the new cables to existing points in the engine bay so it looks neat and tidy.

7. One point which is not shown in the pictures above is the ECU. Here route the wire through the grommet in the Bulkhead which is below the brake servo. From inside route behind the centre console so it comes out into the passenger side footwell. From here remove the carpet that's above the ecu, remove the metal Cover that protects the ECU and connect the wire to one of the ECU securing bolts. From here put everything back and cable tied the new cable to existing wiring.
8. Now that all wiring is secure and in place it is time to think about connecting to the -Ve terminal of the battery. Many people who have carried out this mod have connected all cables to the negative terminal. I though that this was a bit unsightly so I did a bit of research and found this:



It's from Maplin electronics.

Ref: CN97F Distribution Block  
2to8. Cost £4.99

It's made by shark, and is apparently 24carat gold plated. It's easy to connect wires to as they are secured by allen screws.

There are 2 inputs and 8 outputs, but this doesn't really matter as it's a solid block.

9. So the next question is where to fit it, well anywhere in the area around the battery and front headlight will probably do. I chose to make a bracket that fits to the securing bolts of the battery. I used Aluminium sheet.



10. Now to put everything together



- 11. Remember if you do it this way you need a length of wire from the distribution block to the negative terminal of the battery.
- 12. The Finished article:



