



## **ECU R&R instructions for 98-00 VW New Beetle 2.0I, TDI, and 1.8T**

The ECU is located inside the left side of the dash, behind instrument cluster. You gain access to it by removing three pieces of the dash from the top side.

**IMPORTANT NOTE:** Take care to not slip and hit the windshield with any of your tools or the ECU itself. The lower portion of the windshield is much more fragile than the top.

To get inside the dash, you first have to remove the top curved center cover. No tools are required. It is held in place by several clips on the under side of the cover. To remove it, you will need to slide it toward the windshield about an inch. Pushing down to gain a grip, while pushing away from yourself, is usually enough to slide the cover. Once slid, lift upwards to remove.

The driver side dash cover comes off next. The cover is held in place by two Torx T15 screws and several clips on the under side of the panel. There are three screws at the front of the dash. Remove the center and left screw. Note there isn't much room between the screw and the windshield. A 1/4" drive socket with a Torx T15 bit works well here. Once the screws are removed, remove the panel by pulling up on it. It snaps down into place via a number of clips on the leading and trailing edge, so pulling up starting at the right and moving to the left works well. At the very left you can see two protrusions that hold the left side in place.

Beneath the upper driver dash cover is another plastic cover. This cover comes off next. It is attached with six Torx T15 screws, which once removed allow the cover to be pulled out with a little tugging. There are no clips holding it so you can tug away.

The ECU is connected to the wiring harness with two large cables. Notice that the outer edge of each wiring connector to the ECU has a T shaped handle. Pull outwards on these handles to release the connectors from the ECU. Gently pull the ECU free of the 3 plastic clips that hold it in its bracket.

Installation is the reverse of removal. Please follow the initial start-up steps detailed on included spec sheet.

## **Fuel Pressure Regulator (FPR)**

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Changing out the Fuel Pressure Regulator (FPR) to a 4.0 bar version is required as part of the upgrade using the GIAC chip for the 99-00 New Beetle 1.8T. Install takes 10-15 minutes. If you choose to do this yourself, **make sure you do it on a cold engine as fuel may spill when you remove the installed FPR.**

Open hood. Engine cover is held on by two 10mm nuts. Pop off covers with a small screwdriver. Remove nuts, and pull engine cover toward front of car and outwards. FPR is cylindrical part towards driver side of engine, fastened to fuel rail by black U-shaped metal clip. With pair of pliers, pull clip laterally out of fuel rail housing for FPR. Stock FPR can now be wiggled free, and the new 4.0 bar regulator installed by firmly pushing downwards. Reinstall clip. Start engine and check for leaks. Reinstall engine cover, making sure rear of cover seats within small grommet.

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