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Thursday, May 17, 2007

TOOLS REQUIRED

10mm socket/wrench
 Phillips screwdriver
 Prying tool (i.e. flat head screwdriver)
 Torx T-15/10
 Chip remover

Attempting to install a chip can be one of the most dangerous things to do to your car. Frying your computer basically kills your car. BE VERY CAREFUL when installing an aftermarket chip. Be sure to ground yourself when you are in contact with the ECU, motherboard, and chip. I put this on the web for information purposes only, and can not be held responsible for mishaps resulting from your installation.

PLASTIC SCREW

STEP 1.



Open the hood, and look close to the windshield on the passenger side. There is a black plastic cover that is over the rain gutter. There are 4 Phillips plastic screws that hold the cover in place (see above picture). To remove these, you will need some type of prying device (flat head screwdriver) to get under them while unscrewing. They will eventually pop off.

STEP 2.



Here is a close-up of the plastic screw.

REMOVED COVER



Here is the removed cover.

ECU NUMBER



Here is the ECU information that the chip manufacturer will need when ordering a new chip. ATTENTION!!! There is a specific number for your ECU, do not use this one when ordering!



After removing the plastic screws, you will need to slide the clip in the center of the cover over (see above picture). Remove the weather strip that is on the bottom of the cover. You can then remove the plastic cover.

STEP 3.



After removing the cover, you will see the ECU (computer) in the center of the rain gutter (see above picture). There is a nut and a bolt, both 10mm, holding the ECU secure (also a tab in the back, do not forget about this when re-installing the ECU). Remove the computer from the rain gutter (there are also 2 clips keeping the harness from flopping around in the gutter, unclip these).

STEP 4.



There is a latch on the side of the computer where the wiring harness is connected to (see above picture). To remove the harness, you will need to

LATCH OPEN



This is what the latch looks like when open

EXPOSED MOTHERBOARD



Here is the motherboard (very delicate, be careful when handling). The chip that you will need to replace is in the lower right hand corner (mine has already been replaced with a Garrett version .10 chip).

CHIP REMOVER

slide the latch away from the wiring harness.

STEP 5.

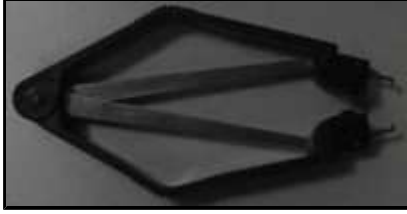


There are 8 total screws that you will need to remove to open up the ECU. There are 4 Phillips holding the bracket on, and 4 T-15/10 Torx holding the motherboard inside the computer. The above picture shows all 4 Torx screws, and 2 of the Phillips screws.

STEP 6.



Here is a close-up of the chip (note notch in top left hand corner). When removing the chip, be sure to note the location of the notch and be sure to place the notch in the same location when installing the new chip. I highly recommend getting a PLCC socket chip remover to remove the chip (avail. at Radio Shack). After installing new chip, reassemble computer in reverse order, re-install the ECU, and reassemble the rain gutter cover.



Here is the chip remover



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