

Removing and Installing EPROMs in an N351 ECU

Tools needed:

10mm socket, either deep or with a short extension

Phillips screwdriver

Soldering iron for electronics – 15-30w or so with a fine tip

De-soldering tool or solder braid

Prep:

Disconnect the negative lead of the battery.

Procedure:

The ECU is located in the passenger side footwell under the carpeting. To get at it, you'll need to remove the passenger side door sill and the kick plate. Pull back the carpet and you'll see the cover plate over the ECU.



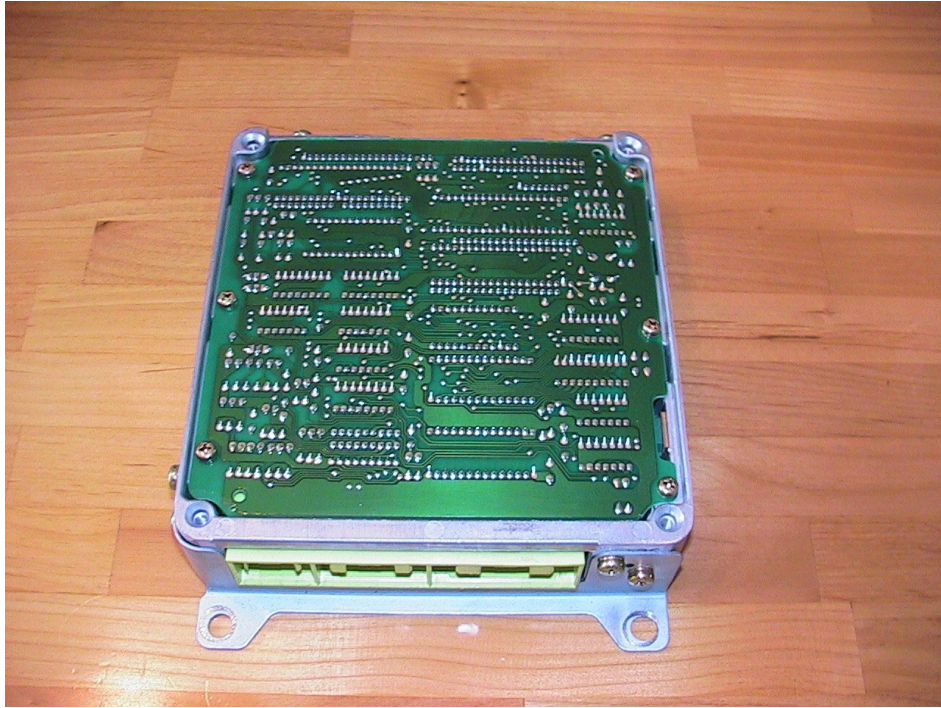
The cover plate is held in place with two 10mm nuts at the top and two 10mm bolts at the bottom. Remove all four of these and remove the cover plate. Slide it out carefully as it has sharp edges that can scratch your interior.

This is what you're looking for now – the ECU. There may be another silver box on the left of it, this is the ABS controller – leave it in place.

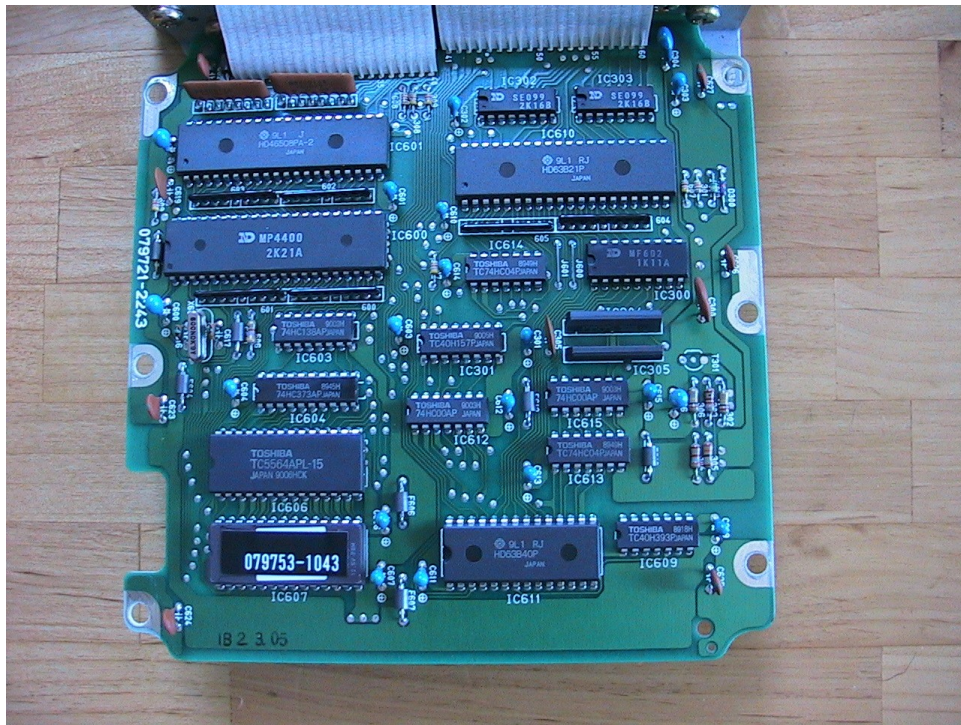
Remove the three harnesses connected to the ECU. They have locking tabs on them, just push down on the top and pull the connector out. The ECU is held in with 4 10mm nuts, one at each corner. Remove them and then remove the ECU.

Remove the four phillips screws on the top cover of the ECU (the cover with the numbers on it) and pull the cover off.

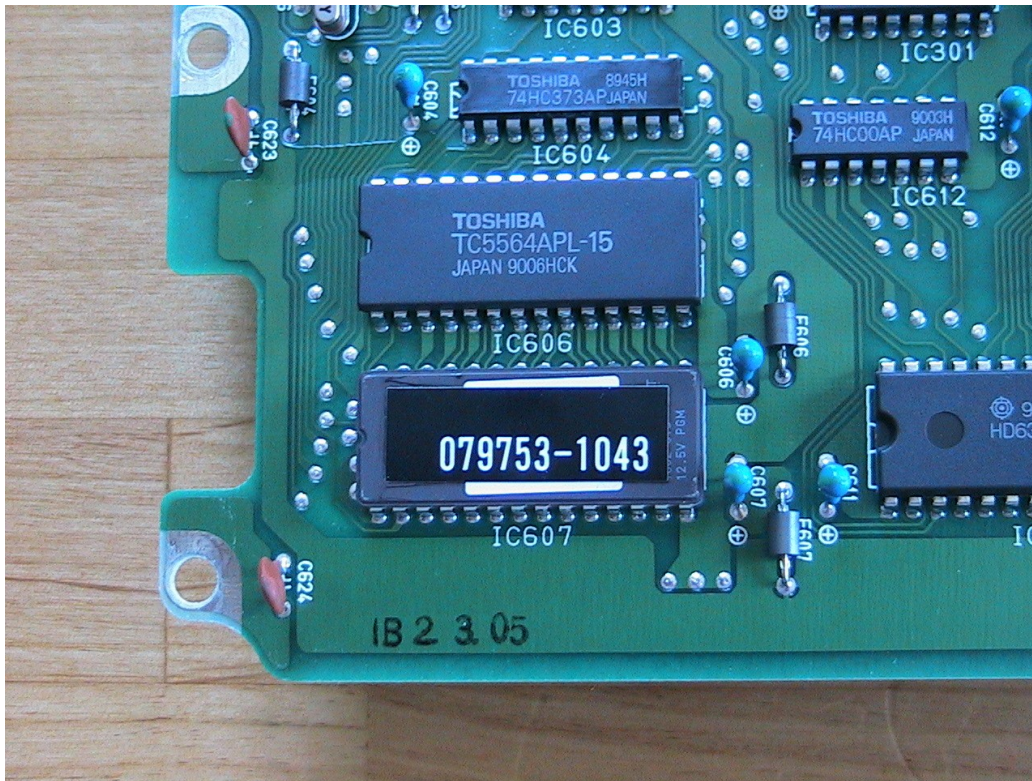
You should now be looking at this:



This is the backside of the digital board and where we'll be making our changes. Remove the 6 phillips screws around the edge and gently fold out the board.



We need to remove IC607 (the chip with the stick on label at the bottom left of the above picture, closeup pic below). The board will also be silk screened with IC607.



Once you've located the chip, flip the board over and desolder it from the board. Take your time.

Here's a few links to pages with info/pics on soldering/desoldering techniques:

<http://www.epemag.wimbome.co.uk/solderpix.htm>

<http://www.aaroncake.net/electronics/desolder.htm>

Key point is take your time.

Solder in the socket into the IC607 location. Pay careful attention to the orientation of the chip, the notch must be on the left like the other chips on the board. If you put it in backwards it will blow up and it won't even be spectacular.

Check your work and fold the board back in. The rest is just the reverse of above ☺
Don't forget to re-connect the negative lead of the battery.

Going back to stock

If you want to go back to stock, remove the new chip from the socket and re-install the stock chip.