

B6-A4

ECU

INSTALLATION

AUDI PERFORMANCE & RACING
1027-B Opelika Road Auburn Alabama 36830

- Flat Head Screwdriver (large)
- Flat Head Screwdriver (small)
- Rotary tool with cut off wheel.
- Ratchet
- 17 mm Socket
- Torx 30 Socket
- 3" Ratchet Extension



Tools Needed

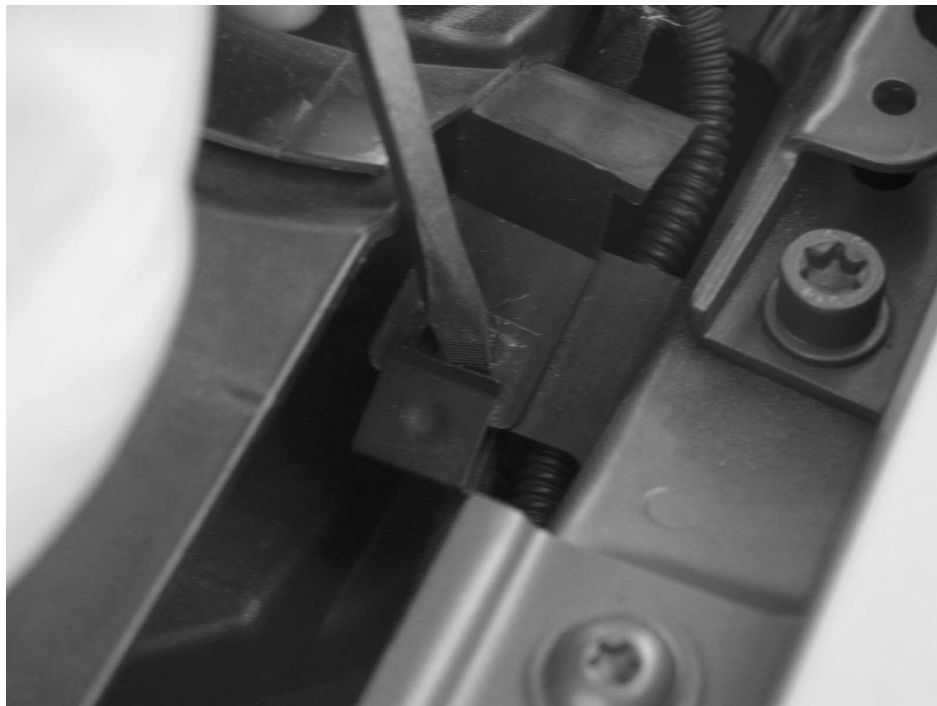
AUDI PERFORMANCE & RACING
1027-B Opelika Road Auburn Alabama 36830

Step 1

Remove the weatherstrip, pull up at one end, and continue to the end. Remove the plastic cover.

Note how the splash shield is installed before removing.





Step 2

Removing the ECU.

The Engine Control Unit is located under the hood, and is sealed within a weather tight plastic case.

The ECUs on some 02+ A4 models are also sealed within a metal cage. These instructions will explain the process needed for freeing the ECU.

You will need to remove the ECU, so that it can be sent to APR for the software upgrade.

Begin by removing the small clip from the cowl splash shield, which is tucked in the corner by the drivers side hood hinge. Be careful not to drop the clip, as it will need to be reinstalled.

Step 3

Remove the Windshield Wiper.

Remove the wiper bolt cap with a flat head screwdriver.

Unfasten the windshield wiper nut.

Remove the windshield wiper arm by wiggling the arm and pulling away from the windshield.





Step 3

Remove Plastic Cowl Splash Shield

Pull up on the plastic cowl splash shield. You may need to raise it enough so that the rear bolt securing the ECU case can be accessed through the hole for the windshield wiper post.

If desired, you may remove the entire cowl splash shield. This will require removing the passenger side windshield wiper as well. This is to prevent the plastic splash shield from cracking when accessing the ECU screws.



Step 4

Remove ECU Case Screws.

Remove the five Torx T-30 screws from the ECU case. The rear screw may be accessed through the hole for the windshield wiper post.





Step 5

Access the ECU.

Remove the metal spring clip over the ECU by using a flat head screwdriver. Disengage the locking tabs by prying on the curved ends located on the sides.

The next few steps deal with removing the ECU security screws from the metal strap, if equipped.

With the wiring harness attached orient the ECU to be more accessible. You can use the cars firewall and ECU case to support the ECU while you work on the next step.

You should also place a large towel or sheet over the engine bay, to prevent any components from falling and to keep metal shavings from collecting on the engine.

Step 6

Slot Security Screws.

Slot the security screws using a high-speed rotary tool with a cutoff wheel.

Make certain to slot the tops of the security screws deeply, essentially turning them into flat-head screws. Also be careful not make the slot too wide.

A metal hacksaw blade can be substituted for the rotary tool to create the slot needed to remove the screws. Use extra care not to damage nearby components.





Step 7

Remove Security Screws.

With a wide blade flathead screwdriver, slowly and carefully remove the security screws. Be sure to press down and turn firmly; the screws will be hard to turn initially due to a thread securing compound.

Be careful not to slip when trying to back out the screws, as the sides and ends of the metal strap are sharp. It might be helpful to have someone assist in holding the ECU while turning the screws.

Step 8

Remove End of Metal Strap.

Remove the end locking plate after the security screws have been removed. The ECU is now free.





Step 9

Disconnect the Wide Wiring Harness.

Disconnect the ECU by pulling the harness tab away from the ECU. As this is done, the harness connector will separate from the unit.

Remove ECU From Metal Strap.

Slide the ECU out of the metal strap, and then disconnect the second harness connector from the ECU in the same fashion.





Step 11

ECU Removal Complete.

The ECU is now free from the metal enclosure. Send your ECU to APR for the ultimate software upgrade.

The ECU will return shortly, and you can continue with the installation process.

Step 13

Reconnect the ECU.

If may reinstall the ECU with out the metal strap.
This will not interfere with the operation of the
vehicle.

If you wish to reinstall the metal casing, you can
obtain two OEM security screws from APR.



Step 14

Slowly reinstall the security screws.

After you have carefully and completely tightened both security screws, torque the screws down until the drive heads shear from the shoulder.

The rest of the reinstallation is the reverse of the removal. Once the ECU is reinstalled, be sure to let the car sit for three minutes with the ignition on before starting the engine. Enjoy your new software.

