



# A6 Allroad ECU INSTALLATION

**AUDI PERFORMANCE & RACING**

1027-B Opelika Road Auburn Alabama 36830

- Flat Head Screwdriver (large).
- Ratchet
- 8mm Socket
- 3" Ratchet Extension



Tools Needed

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## 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 models are also sealed within a metal cage. These instructions will explain the process needed for freeing the ECU.

If your vehicle is not equipped with the metal cage over the ECU, disregard the directions concerning removal of the metal cage.

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

Remove ECU Case Screws.

Remove the five 8mm screws from the ECU case.

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### Step 3

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 4

#### 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 flathead screws. Also be careful not to 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.

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## Step 5

### 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 6

Remove End of Metal Strap.

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

## Step 7

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.





## Step 8

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.



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## Step 9

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 10

Reconnect the ECU.

If you may reinstall the ECU without 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.

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## Step 11

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.

