Audi 2.7T to 2.0T Coil Pack Conversion

Installation Tutorial

ES2723130

ES2730647

INDEX

REQUIRED TOOLS

- Safety Glasses
- Flat blade screwdriver(s)
- Phillips screwdriver
- 1/4" drive 10 mm socket
- 1/4" drive 7 mm socket
- 1/4" ratchet
- 1/4" drive extension, 6" in length
- 5mm allen wrench or allen socket

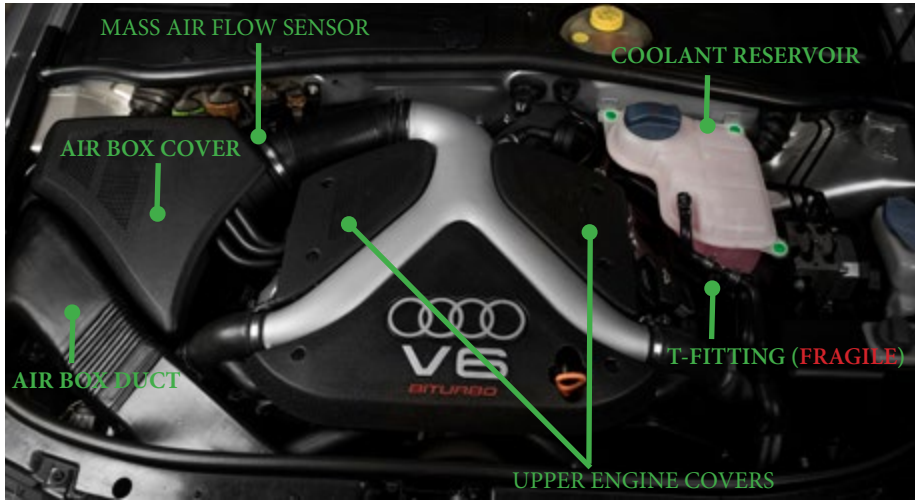
PREPARATION AND SAFETY

Park your car in a safe, well lit, level area.
Shut the engine off, engage the parking brake, and remove the key from the ignition switch.
Make sure any remote start devices are properly disabled.
Always wear safety glasses.
Open the hood.
Place protective covers over both fenders and the front fascia.
LH refers the the driver side of the vehicle, RH refers to the passenger side.

REMOVING THE ORIGINAL COILS

Step 1:

Remove the three screws for the coolant reservoir, disconnect the electrical connector underneath, and move the coolant reservoir to the side. It is not necessary to disconnect any coolant lines.



Step 2:

Remove the air box cover, air box duct, and upper engine covers.

CAUTION

The coolant "T" fitting near the reservoir is very fragile and can break easily. If a replacement is needed, it is available on our website: ES470541

Step 3:

Using a 7mm socket, unbolt, disconnect, and remove the original ignition modules.

Step 4:

Loosen the hose clamp on the end of the mass air flow sensor and disconnect the electrical connector from the sensor. Then release the four spring clips holding the air box lid in place. Remove the air box lid and mass air flow sensor together as one piece.

REMOVING THE ORIGINAL COILS

Step 5:

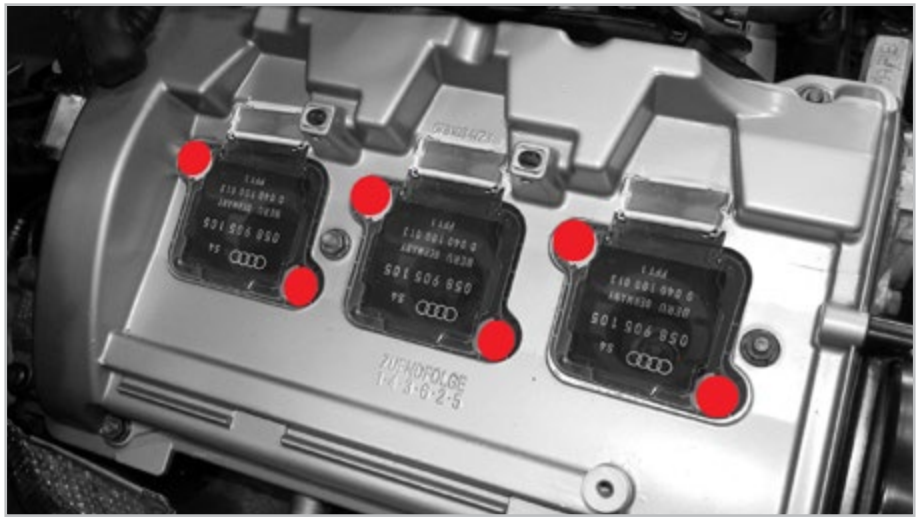
Loosen both coil covers (shown here off the vehicle) by turning the fasteners 1/4 turn counter clockwise with a flat blade screwdriver. Remove the oil cap and lift up on both covers to remove them.

NOTE

The oil cap must be removed in order to lift off the LH coil cover.

Step 6:

Using a 10 mm socket, remove the bolts holding the original coils to the valve covers. Slightly raise each coil, release the electrical connector retainer, then disconnect the electrical connector and remove the coil.



INSTALLING THE NEW COILS

Step 1:

Using a 5mm allen, install a coil spacer plate on each valve cover using the six bolts provided for each plate. Install all six bolts on each spacer plate until they are fully seated, then tighten the bolts.

NOTE

The left and right coil spacer plates are different, so the coils will only index into the plates one way. The plates are installed on the correct side when the coil connectors point down and towards the rear of the engine.

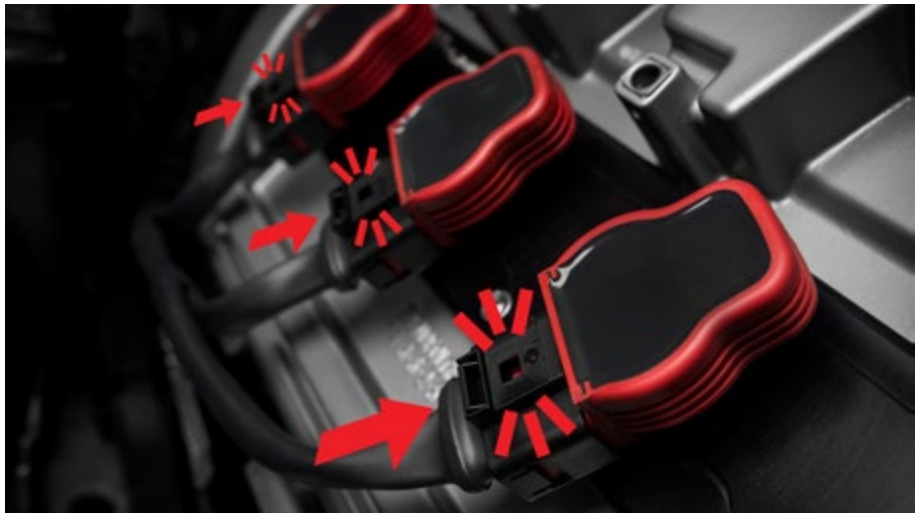
Step 2:

Push all six coils into place until they are fully seated.

INSTALLING THE NEW COILS

Step 3:

Connect the new coil adapter harnesses to the coils, making sure that the connectors are fully seated. You should hear the connector locking tab click as it locks into place.



NOTE

The left and right harnesses are the same.

Step 4:

The harness routing is the same for the left and right and is as follows: Each harness will route towards the rear of the engine, make a 90 degree bend, run up the rear edge of the valve cover, make another 90 degree bend and run along the top edge of the valve covers until they connect to the factory wiring harness.

NOTE

Bend the harnesses as needed for routing.

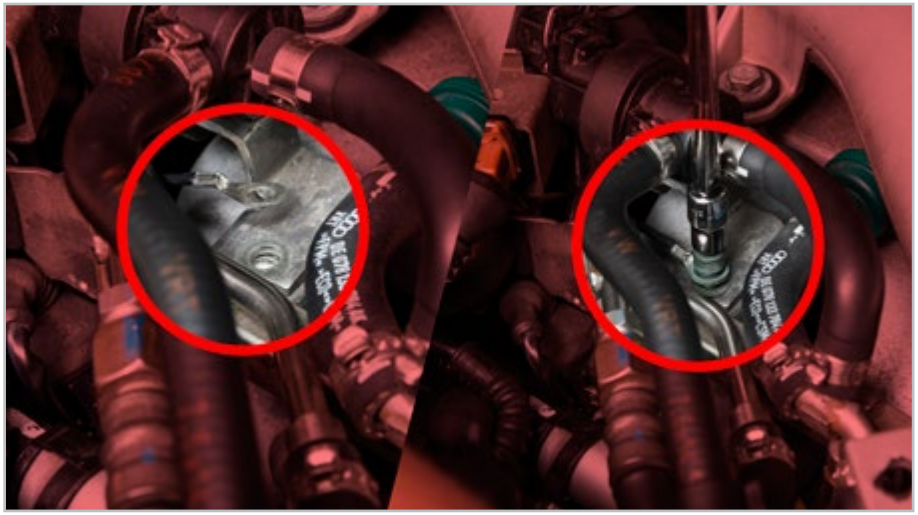
INSTALLING THE NEW COILS

Step 5:

Connect the three harness connectors on each side to the factory coil connectors. The three branches of each harness are different lengths, the shortest being the rear and the longest being the front.

Step 6:

Attach the LH and RH harness ground wires. There is an allen cap screw on each side of the intake "Y" tube that can be used. Attach the ground wire eyelets underneath these screws.



INSTALLING THE NEW COILS

Step 7:

Carefully position the harnesses and connectors so the engine covers can be reinstalled.

NOTE

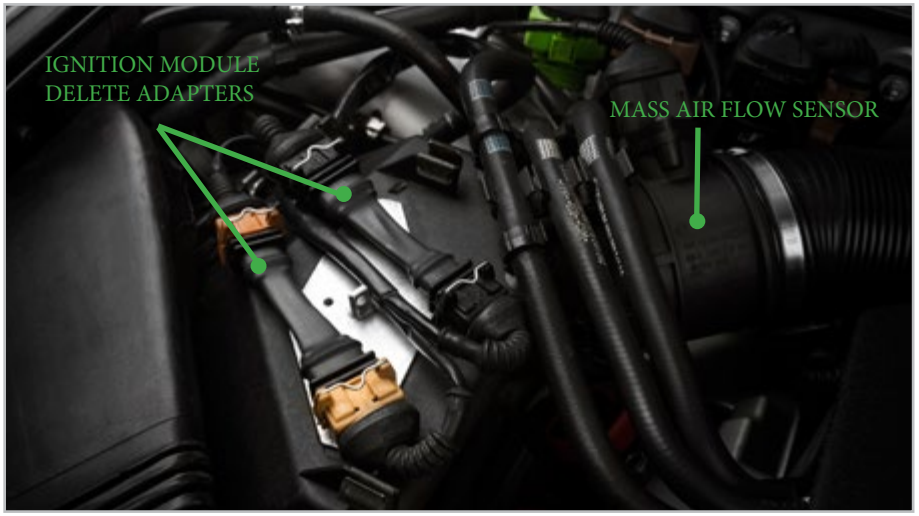
If you are going to reinstall your original coil covers, see page 10 for cover modification.

Step 8:

Reinstall the coil covers (if used), upper engine covers, the mass air flow sensor, the air box lid, air box duct, and coolant reservoir.

Step 9:

Install the ignition module delete adapters in place of the original ignition modules as shown in the picture.



NOTE

Both delete adapters are the same, either one can be used for either side.

Step 10:

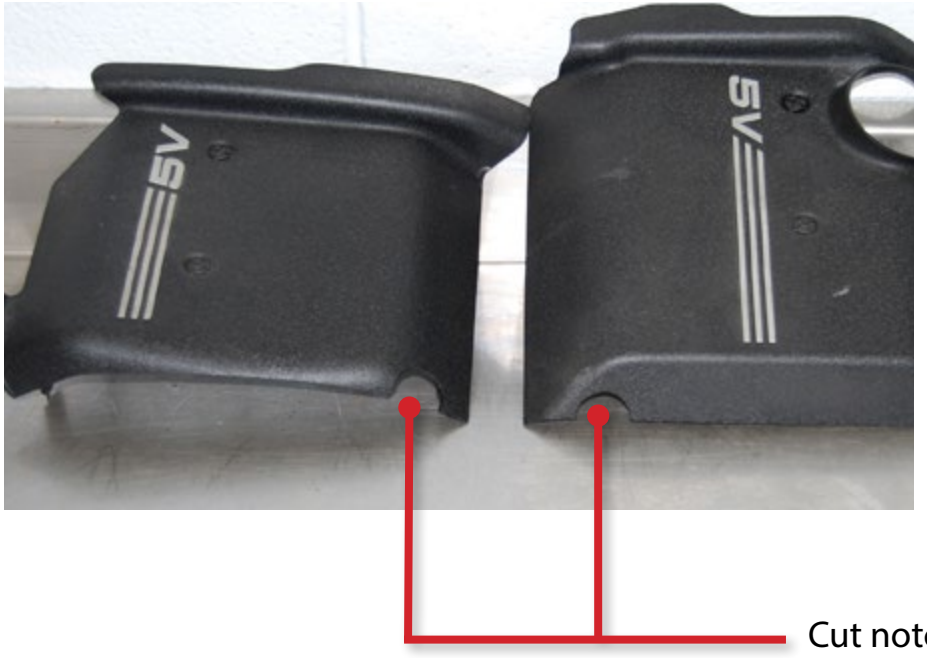
Reinstall the air box cover.

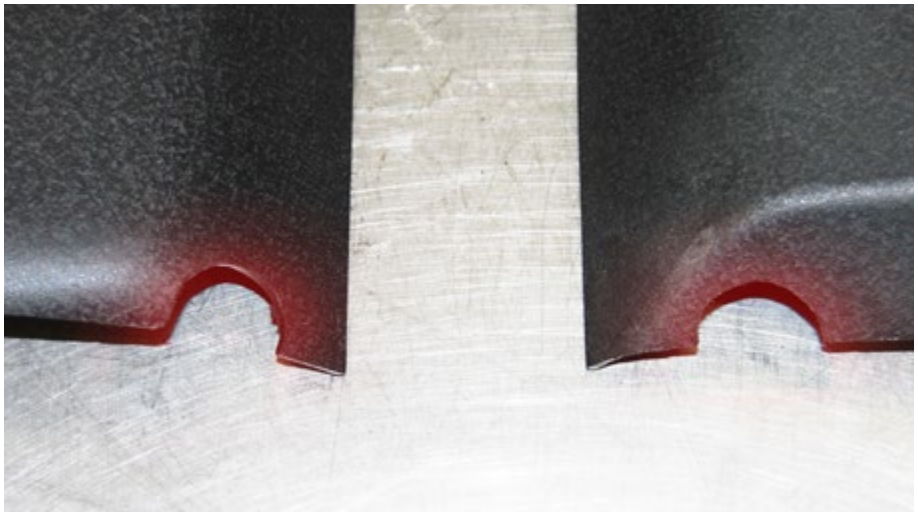
MODIFYING THE COIL COVERS

If you are reinstalling the coil covers on your car, you will need to cut a clearance notch in each cover so they will fit over the coil harnesses.

1. Hold the covers in position, mark the area where the cut out is required, and cut the notch in each cover. You can see the notches we cut in our covers.

2. We used a straight air grinder with a carbide bit, however you can use a variety of different tools to cut this notch, depending on the tools that you have.





Your Audi 2.7T to 2.0T coil pack conversion is complete!

This tutorial is provided as a courtesy by ECS Tuning.

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.