

## AWE/McNeil Competition Air/Air Intercooler Kit for 2000-04 Audi 2.7T

Congratulations on your purchase of the AWE/McNeil Competition Intercoolers for your 2.7T Audi. Hundreds of hours of design and operational testing were spent to ensure maximum results without compromise. You have truly selected the best performing intercooler kit for the 2.7T engine.

While the install is fairly straight forward, please review these instructions carefully before attempting installation. If you do not feel comfortable installing this kit on your own, contact a professional installer in your area. While the car pictured is an Audi S4, installation except where noted is similar on both the A6 and allroad 2.7T.

### Parts list:

- 1 Driver side intercooler
- 1 Passenger side intercooler
- 1 Driver side air duct
- 1 Passenger side air duct
- 1 Passenger side dowel bracket
- 1 40-60mm hose clamp
- 2 M8x30x1.25 bolt
- 2 M8x24x2mm flat washer
- 4 M6x20x1.00 bolt
- 8 M6 flat washer
- 4 M6 nylok nut

### Required tools and materials:

- Medium flathead screwdriver
- 10 mm, 13 mm sockets and ratchet
- T25, T30, T45 Torx bits
- 6mm Hex Bit
- Dremel/Whizzer with cut off wheel or Body saw
- Spray or brush on paint
- Felt tip marker

### Estimated install time:

2.5 hrs

### Step 1:

Remove the three T25 Torx head screws fastening the both the driver and passenger side bumper edges to the wheel wells. At arrows in Figure 1.

Remove under engine tray.



Figure 1

### Step 2:

Remove front bumper grilles around foglights by grasping firmly and pulling forward away from car.

Remove front bumper bolts, at arrow in Figure 2, using 6mm hex bit tool.



Figure 2

### Step 3:

Release the bumper from its clips on each side by pushing bumper towards rear of car, then grasping the upper edge of the bumper running along the side of the front fender and pulling downwards. Then grasp the lower edge of the bumper below and pull upwards. This is a tricky maneuver, and can be made easier with the help of a friend.

Pull the bumper forward to expose the headlight washer hoses by the driver side headlight. Push up on black clip (at arrow in Figure 3) to release the hose attached to the car. Have a pen cap or vise grips handy to close off this hose and keep washer fluid from draining.

Unplug foglights and remove bumper.

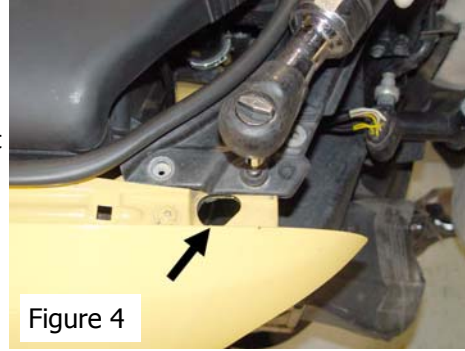


Figure 3

**Step 4:**

Remove both headlights. There are two T30 torx bolts each on top, and one in the access hole at the arrow in Figure 4.

Remove two upper T30 Torx bolts per side fastening the radiator support to each fender. See Figure 4.



**Step 5:**

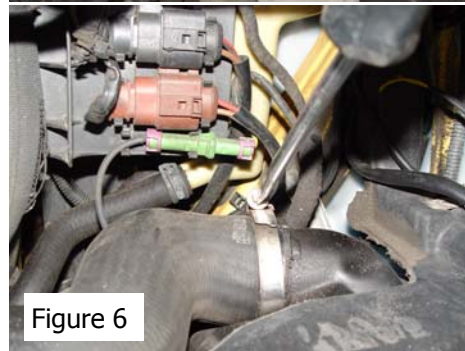
Remove one Torx T30 bolt per side fastening the fender "wings" to the radiator support. See Figure 5.



**Step 6:**

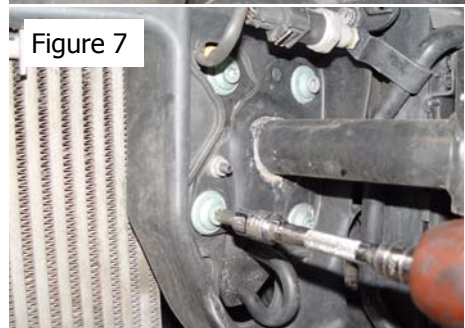
Loosen all the hose clamps holding the boost hoses to the inlet and outlet of each intercooler, four total. Loosen the remaining hose clamp on the passenger side lower boost hose and remove this hose.

Pop off the air duct from the face of each intercooler.



**Step 7:**

Remove all four T45 Torx bolts fastening each bumper shock to the radiator support, eight total.



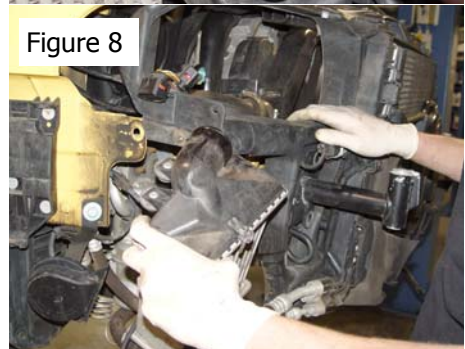
**Step 8:**

Remove both intercoolers. Pulling the radiator support outwards away from the front of the car will give more room to do so.

Grab the driver side intercooler by the bottom and pull it out towards the side of the car.

Grab the passenger side intercooler by the top and pull it out towards the side of the car. See Figure 8.

The passenger side intercooler will require more maneuvering to clear the A/C lines below it.



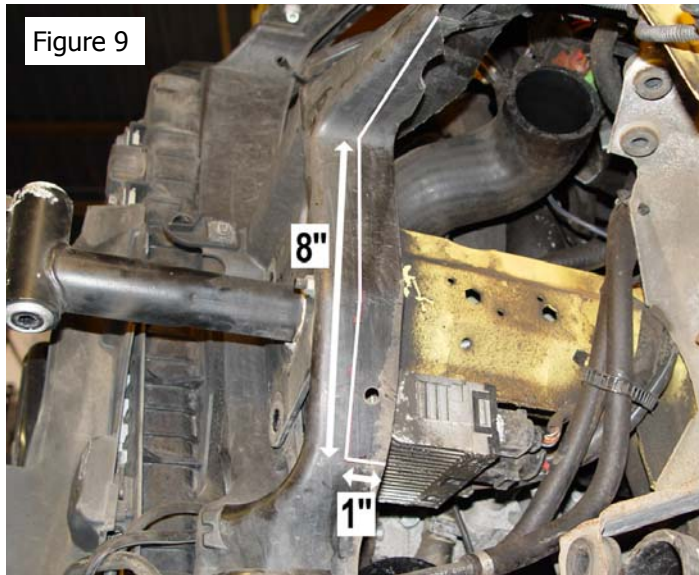


Figure 9

**Step 9:**

**For Audi S4 only:**

With a felt tip marker (or whiteout), mark a line on the radiator support as in Figure 9.

Cut along this line with a Dremel, cut-off wheel, or saw.

Repeat on the passenger side.

**Step 10:**

**For Audi S4 only:**

Unbolt the horn from the driver side fender "wing".

With a felt tip marker (or whiteout), mark a line on the the sheet metal as in Figure 10.

Cut along this line with a Dremel, cut-off wheel, or saw.

Paint the exposed edges and let dry.

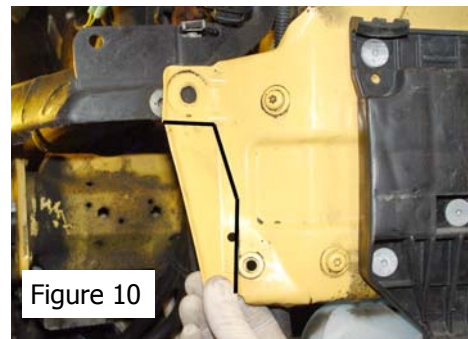


Figure 10

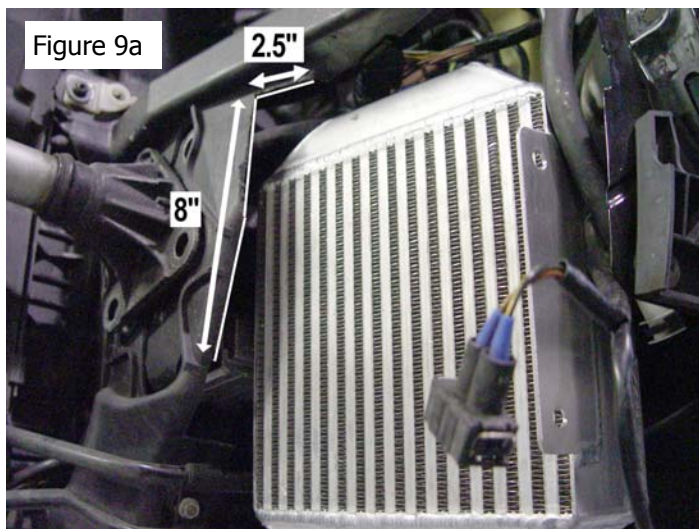


Figure 9a

**Step 9a:**

**For Audi A6:**

With a felt tip marker (or whiteout), mark a line on the radiator support as in Figure 9a.

Cut along this line with a Dremel, cut-off wheel, or saw (picture is shown with material already removed).

Repeat on the passenger side.



**Step 11:**

Install the passenger side AWE/McNeil Competition intercooler first.

Pull the radiator support upwards and outwards away from the front of the car as in Figure 11. Wiggle the intercooler in between the AC lines and the radiator support. It is a tight area, so have some patience.

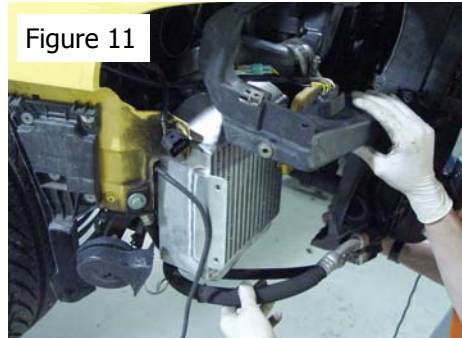


Figure 11

**Step 12:**

Once the passenger side intercooler is in place, install the dowel bracket as shown in Figure 12. Make sure that the dowel is seated in the factory bracket hole (center of Figure 12), and then clamp the bracket to the intercooler outlet tube with the 40-60mm hose clamp as shown in Figure 12. Leave approximately 1" exposed from the edge of the bracket to the outlet of the tube.

Reinstall the lower boost hose and attach the upper boost hose. Firmly tighten all hose clamps.



Figure 12

**Step 13:**

Install the driver side AWE/McNeil Competition intercooler next.

Ensure that the lower locating dowel is seated in the factory bracket hole as in Figure 13.

Reattach the upper and lower boost hoses and firmly tighten the hose clamps.



Figure 13

**Step 14:****For Audi S4:**

Place the enclosed piece of adhesive backed foam between the end of the driver side frame rail and the face of the driver side intercooler, at arrow in Figure 14. This will ensure that the face of the core is not damaged from rubbing on the frame rail.

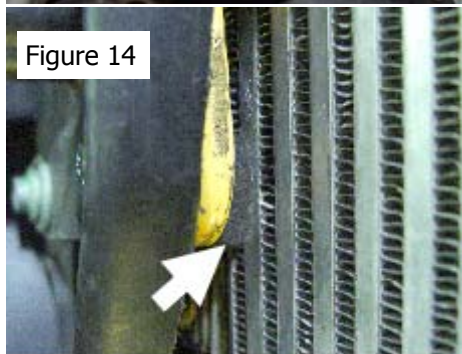


Figure 14

**Step 15:**

Route the foglight and horn wiring as shown in Figure 15. Ensure that the wiring is not being pinched.

Reattach the horn to the factory mounting point and attach wiring.



Figure 15

**Step 16:**

**For Audi S4:**

Check the upper left bolt hole on the passenger side bumper shock to ensure that the intercooler is not visible from behind. If it is, rotate the intercooler until the hole is clear.

Install all the bumper shock bolts, substituting the lower left bolt with the enclosed M8x30x1.25 bolt and M8 flat washer (at arrow in Figure 16).

Do the same on the driver side and then install all remaining bolts.

**Step 17:**

Install intercooler ducts as shown in Figure 17. Note that the flanges on the intercooler cores go to the outside of the ducts. Fasten the ducts to the flanges using the enclosed M6x20x1.00 bolts, M6 washers, and M6 Nylok nuts.

Make sure to route the foglight wire through the corner opening between the duct and intercooler, at arrow in Figure 17.

**Step 18:**

Reinstall the bumper, making sure that the intercooler ducts are sitting properly around the foglight grille openings (note that Figure 18 has the foglight removed for picture purposes).

Reinstall the headlights.

Reinstall the under engine tray.

Enjoy your AWE/McNeil Competition intercoolers!

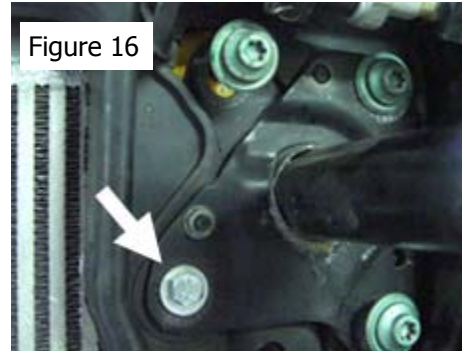


Figure 16

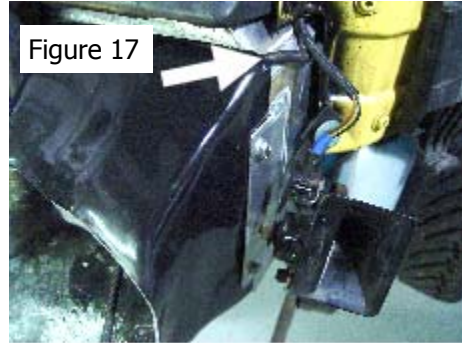


Figure 17



Figure 18

Contact us with any questions:

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Thank you for choosing AWE Tuning as your performance automotive parts supplier. Please remember that a performance car is only as strong as its weakest link. Therefore, it is vital that you maintain your vehicle to factory specifications.

### **Limited Warranty**

The following warranty is valid only in the United States and Canada.

The Manufacturer's full warranty applies to all products sold.

By installing or using the purchased product, the Consumer accepts this warranty.

Secor Ltd. (AWE Tuning) warrants to the original retail purchaser (Consumer) AWE/McNeil Competition Intercoolers for 1 year after the purchase date for Manufacturer's defect.

Upon verification of warranty coverage, AWE Tuning will replace the defective product without charge. This is the only remedy the Consumer has for any loss or damage, however arising, due to nonconformity in or defect of the product. This warranty does not cover consequential damage, loss of time or revenues, inconvenience, loss of use of vehicle, damage to the vehicle or components, or other incidental or indirect damage.

All warranties are void if the product was not installed by a certified auto mechanic, improperly serviced, modified, or used in a way not intended by the Manufacturer.

Please contact us first for any warranty claims or explanations of this document.