



INSTALLATION GUIDE

2000-05 Audi MK1 TT Vent Boost Gauge Kit

Congratulations on your purchase of the AWE Tuning Vent Boost Gauge Kit for the 2000-05 Audi TT.

Exquisite build quality with industry leading performance distinguishes this gauge kit from all others.

Contact us with any installation questions.

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PARTS AND TOOL LIST

- 1 preassembled AWE Tuning bezel and gauge pod
- 1 boost hose
- 1 sender unit with wiring harness
- 1 gauge wiring harness
- 1 fume filter
- 1 T-fitting
- 1 10" of additional white wire
- 2 wiring loop terminal
- 1 blue butt connector
- 4 small zip tie

Required tools and materials:

- Medium and small flathead screwdrivers
- 10 mm and 13 mm sockets and ratchet
- Torx T25 socket
- X-acto knife/razor blade
- Wire strippers/cutters

Step 1

Remove factory vent by popping it out from the sides with the small flathead screwdriver. Grasp the edge of the vent and pull straight outwards with your fingers.

The picture and following steps detail an install in the left side vent, but the gauge kit also can be installed in either of the two center vents.



Figure 1

Step 2

Remove headlight switch assembly. With switch in off position, push in knob and turn clockwise (with knob still pushed in). Then pull knob out to remove entire switch assembly.

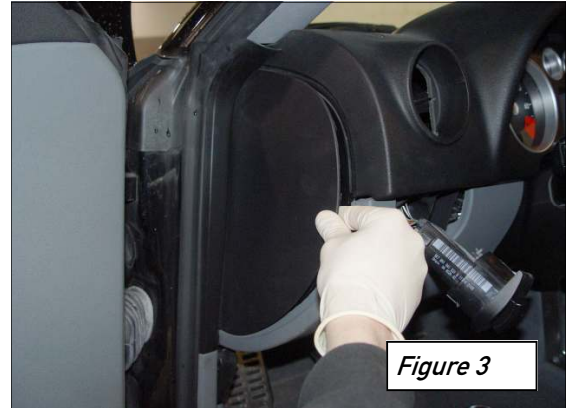
Disconnect wiring harnesses from rear of the switch assembly.



Figure 2

Step 3

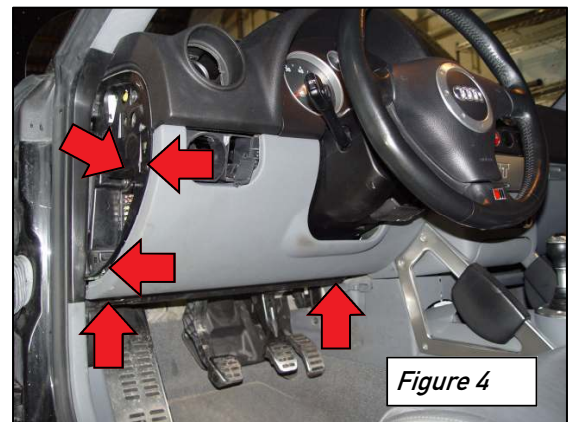
Remove the fuse panel cover on the end of the dash.



Step 4

Remove knee bolster panel. Unbolt two T25 torx bolts at arrows below dash, and three T25 torx bolts at arrows at end of dash in **Figure 4**.

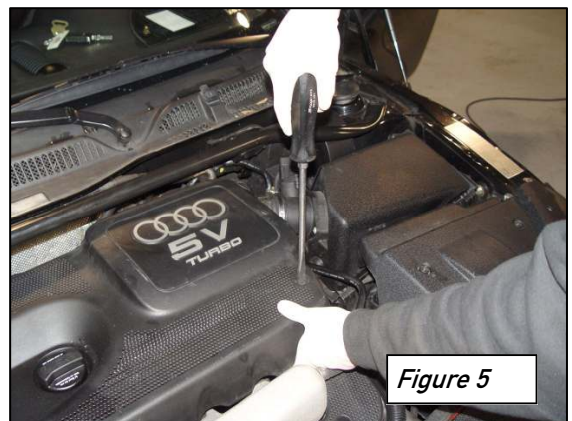
Pull knee bolster towards rear of car to remove.



Step 5

Open the hood and remove engine cover. Twist its x-shaped fasteners 90 degrees with a flat head screwdriver to release.

Note: a 180hp TT is pictured. A 225hp TT will appear slightly different in the following engine step pictures.



Step 6

Remove windshield wipers. Place a piece of tape on the windshield along the blades to ensure accurate reinstallation.

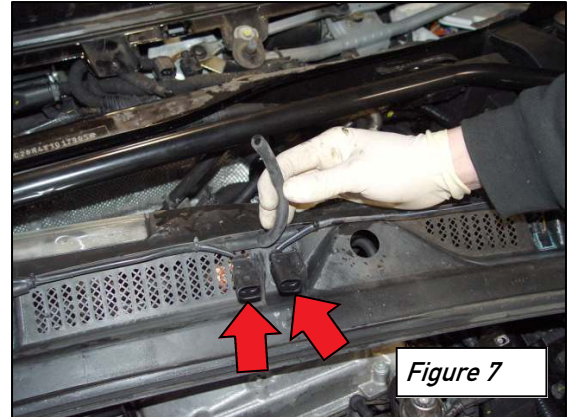
Remove caps at the base of the wiper arms, as in **Figure 6**, to reveal 13mm nuts. Unbolt nuts.

Close the hood and remove the wiper arms carefully.



Step 7

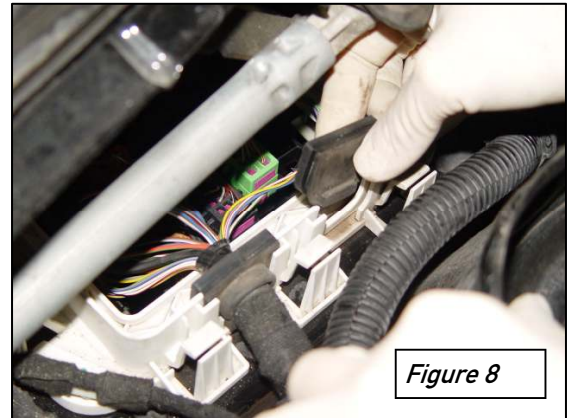
Remove the cowling panel below the wipers by grasping at an end of it and lifting slowly. Unplug the heated washer plugs and washer hose as shown at arrows in **Figure 7** (cowling is already removed and flipped upside down in picture).



Step 8

Remove the cover off the white wiring connector box in the corner of the firewall area under the cowling.

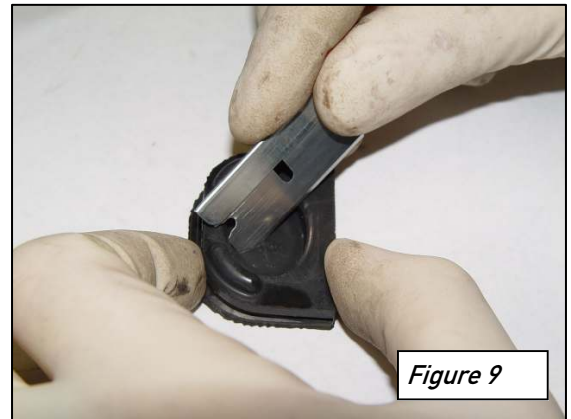
Remove the rubber blanking plug, as shown in Figure 8.



Step 9

With a razor or x-acto knife, cut an "X" in the middle of the rubber blanking plug.

Insert an end of the silicone hose included with the boost gauge kit, and slip half of the hose through the plug.



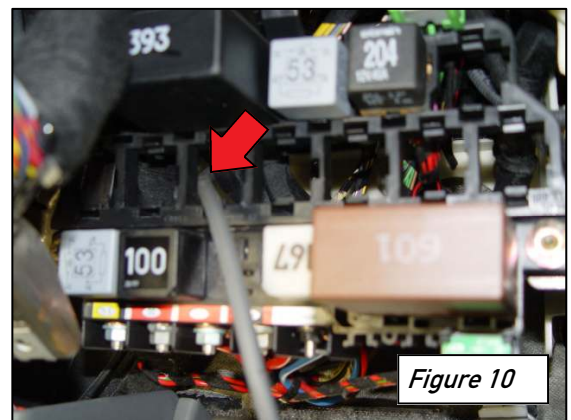
Step 10

Drop one end of the hose down through the wiring connector box, into the passenger compartment.

Locate this end of the hose in the passenger compartment and route it through the relay panel under the dash as shown at arrow in **Figure 10**.

Cut a small piece off the boost hose end, and slip in one end of the enclosed oil fume filter.

IMPORTANT: Installation of this supplied oil fume filter is mandatory to ensure long term gauge functionality.



Step 11

Attach the cut piece of hose between the fume filter and the inlet of the supplied boost sender unit. **Zip tie the sender unit under the dash, with the inlet nipple facing downwards.**

IMPORTANT: Installation with the sender pointing downwards is mandatory to ensure long term gauge functionality.

Discard any remaining hardware in the same bag as the filter.

Use two small zip ties to secure the boost hose away from moving parts under the dash. When tightening the zip ties, ensure that the boost hose is not being crushed.



Figure 11

Step 12

In the engine compartment, remove the cover for the wiring loom box. Use a small flat head screwdriver to release the tabs as shown in **Figure 12**, and remove.

Route the silicone hose through the wiring loom box and out the bottom of it. Removal of the strut bar can make this job easier.

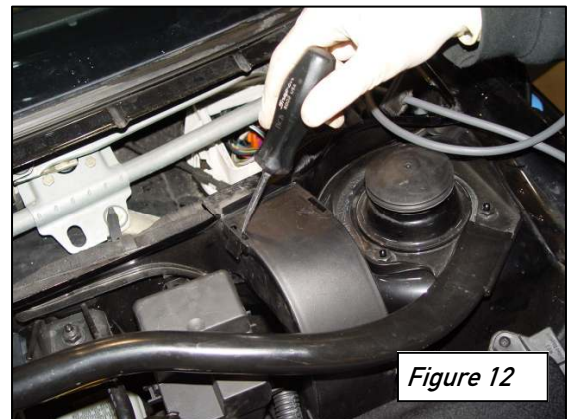


Figure 12

Step 13

Remove the 3mm hose from the Fuel Pressure Regulator (FPR) as shown in **Figure 13**.

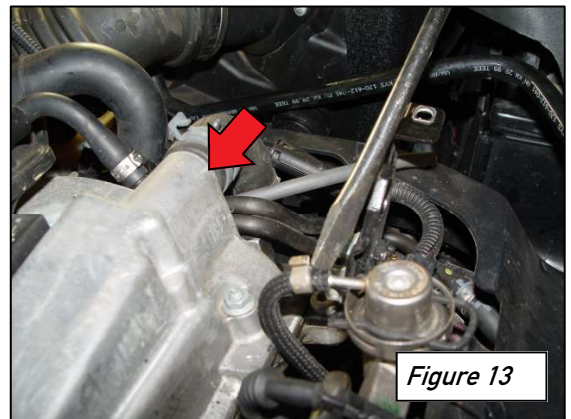


Figure 13

Step 14

Route the silicone hose through the engine compartment as shown in **Figure 13**. Ensure that the hose is not interfering with any exhaust components or moving items.

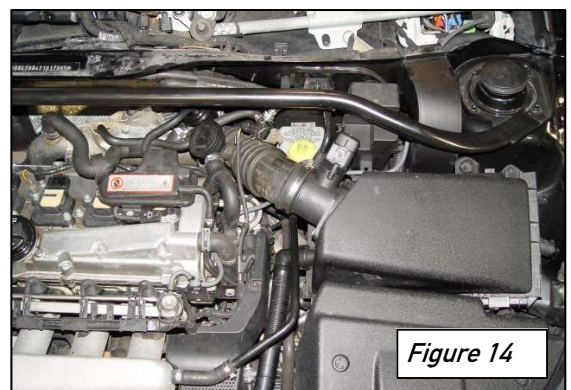


Figure 14

Step 15

Cut 2" off the end of the silicone hose from the kit, and slide it over the end of the FPR fitting. Attach the 3mm FPR hose, the long silicone hose from the kit, and the 2" piece of hose to the outlets of the T-fitting included with the kit, as shown in **Figure 15**. Use the enclosed zip ties on the hose ends.

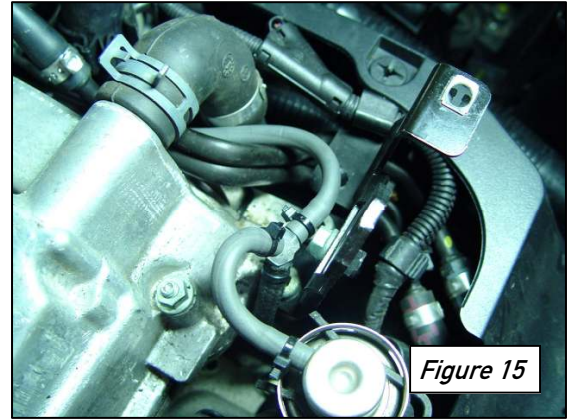


Figure 15

Step 16

Prep the vent housing for gauge installation. Remove the chrome bezel by gently prying upwards with a plastic trim removal tool or screwdriver as shown in **Figure 16**.

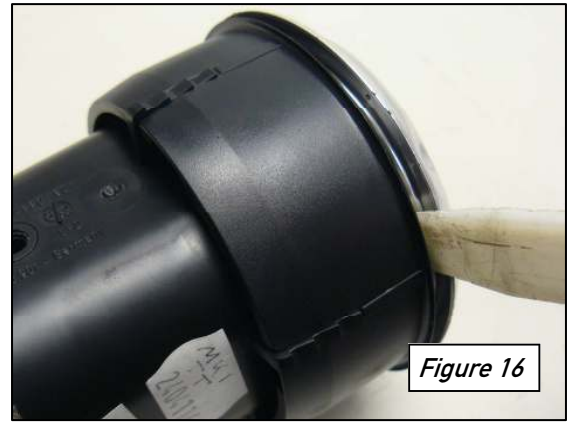


Figure 16

Step 17

Remove the vent fins from the housing, all of which simply pop out.

Remove the vent flap and actuating gear. When finished the vent housing should appear as shown in **Figure 17**.



Figure 17

Step 18

Install the gauge and bezel assembly by lining up the two notches in the bezel with the matching notches in the vent housing as shown at the arrow in **Figure 18**. Note that the two notches are different sizes

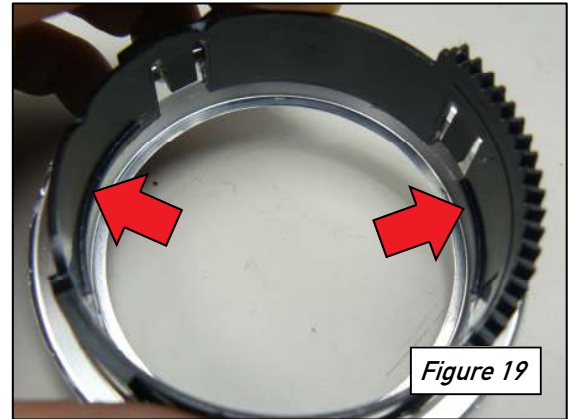
Snap the tabs on the edge of the gauge bezel into the center flap slots on the vent housing. Make sure the gauge assembly is fully seated against the housing.



Figure 18

Step 19

Line up the two tabs on the inside of the chrome bezel (shown at the arrows in Figure 19) with the notches in the vent housing and push down to snap the bezel back into place.



Step 20

Back in the car, route the sender wiring harness from below the dash up and through the hole in the dash where the vent installs.

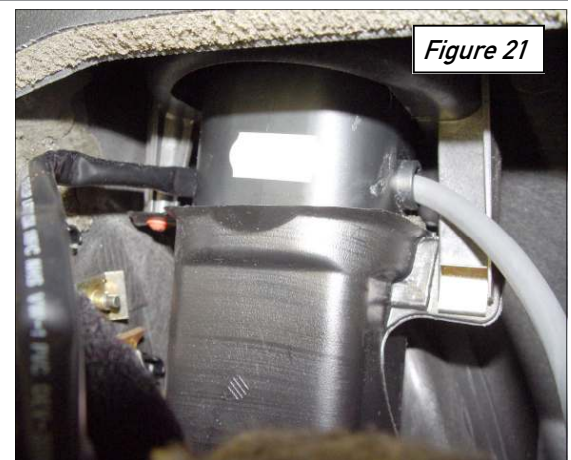
Then route both the gauge wiring harness and the sender harness through the holes in the side of the vent housing and attach both connectors to the back of the gauge.



Step 21

Gently push the boost gauge/vent assembly into the opening in the dash.

Once seated, ensure that the wiring is not pinched.



Step 22

Strip and twist together the red, green, and white wires from the gauge wiring harness. Attach these wires to the enclosed length of red wire with a butt connector. With key off, attach this red wire to terminal 75X, switched 12V power, using an enclosed loop terminal (at **Arrow A** in **Figure 22**).

Alternatively, to allow the needle to return to zero with the key off, attach the green wire to a constant 12V power source.

Then attach the black gauge harness wire to the grounding point (brown wires) at **Arrow B** in **Figure 22** using an enclosed loop terminal.

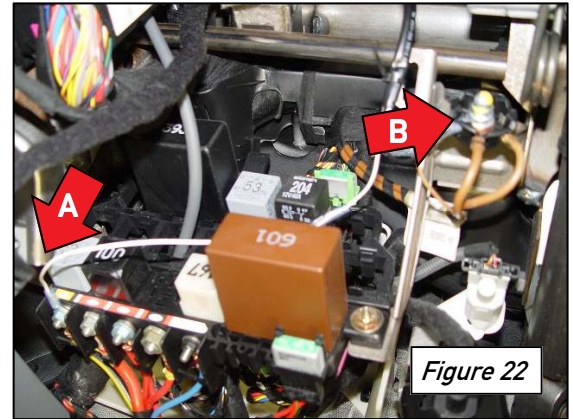


Figure 22

Check the operation of the gauge at this time. You should see ~17-22 inHg of vacuum at idle, and the gauge lighting should turn on and off with the key.

Double check your work and reassemble everything. Reassembly is simply the reverse of disassembly.

Troubleshooting Guide

Issue	Remedy
Slow needle response and/or incorrect boost and inHg reading.	Block or kinked boost hose. Check that zip ties are not too tight or that hose is not being crimped.
Needle sweeps at start up but sticks at one boost or inHg reading and will not move.	Block or kinked boost hose. Check that zip ties are not too tight or that hose is not being crimped.
Needle sweeps at start up but returns to -30 inHg mark and will not move.	Disconnected or loose Red Wire connection. Double check installation of that wire.
Needle not at -30 inHg mark when gauge is first received.	Gauge will sweep during initial use and recalibrate itself.

ENJOY

A boost gauge is a valuable tool in determining your car's state of performance.

Please note that while the air control vent bezel will still rotate with this boost gauge kit, the vent can no longer be closed.



Any questions or comments,
please do not hesitate to contact us:

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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.

By installing or using the purchased product, the Consumer accepts this warranty and any specific Manufacturer warranties enclosed.

Limited Warranty

The following warranty is valid only in the United States.

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

Secor Ltd. (AWE Tuning) warrants to the original retail purchaser (Consumer) this product (Audi TT Vent Boost Gauge Kit) against manufacturing defects for one year from date of original purchase.

Upon verification of warranty coverage, AWE Tuning will repair or replace the defective product at their discretion, 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, installation labor costs, inconvenience, loss of use of vehicle, shipping costs, installation labor costs, 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. Use of product in Motorsports or Racing conditions is grounds for warranty denial. Motorsports and Racing is an inherently abusive operational condition, and it is impossible to warranty for this type of usage.

The Consumer is responsible for ensuring that the product is installed in a safe and proper manner, and should cease usage of the product immediately if an unsafe or improper condition is noted. If an unsafe or improper condition is noted, the Consumer should then immediately contact the facility where the product was installed or AWE Tuning directly.

Please contact the original place of purchase for any warranty claims or explanations of this document.