



2013-2016 AUDI S4 TOURING EDITION EXHAUST INSTALLATION GUIDE (102MM TIPS)

Thank you for purchasing the **AWE Touring Edition Performance Exhaust System** for the **2013-2016 Audi B8.5 S4**. For up-to-the-minute fitment information, be sure to visit the Audi B8.5 S4 section of www.AWE-Tuning.com.

As always, AWE performance specialists are standing by for any questions, at 215-658-1870, or performance@AWE-Tuning.com.

Let's go!

PARTS LIST



INSPECT ALL PARTS PRIOR TO DISASSEMBLY OF VEHICLE; IF DAMAGED OR MISSING, PLEASE CONTACT THE PLACE OF PURCHASE IMMEDIATELY.

TOURING EDITION EXHAUST SYSTEM

- 1 mid-muffler/x-pipe section (DL)
- 1 driver side mid-pipe (DE)
- 1 passenger side mid-pipe (DF)
- 1 driver side rear resonator section (DT)
- 1 passenger side rear resonator section (DU)
- 4 102mm exhaust tips (*optional finish*)
- 4 2.25" t-bolt clamps
- 4 63.5mm exhaust band clamps
- 1 3/8"-16x1.25" SS bolt
- 1 3/8"-16 SS nut
- 2 3/8" washers
- 1 3/8" lock washer
- 2 M8 SS fender washers
- 2 hanger post clamps
- 1 9/64" Allen wrench (for hanger post clamp)

Optional Downpipes

- 1 driver side flex section (CG1)
- 1 passenger side flex section (CG2)
- 2 resonators (or tube) section (CG3, 5)
- 6 M8 x 30mm SS bolts
- 6 M8 washers
- 6 M8 copper exhaust nuts
- 2 manifold to downpipe gaskets
- 2 2.50" exhaust band clamps

STEP 1

It is imperative that the factory "SoundAktor" system be disabled to ensure a drone-free sound experience.

The "SoundAktor" is an audio file that is broadcast over the vehicle's stereo system, regardless of what Drive Select mode the car is set to. On a stock exhaust, this sound file is supposed to make the car sound more sporty and aggressive. However, when combined with the inherent acoustic properties of the AWE Performance exhaust, the total sound volume becomes too loud and can be bothersome under light throttle driving conditions.

REMOVAL OF THE SOUNDAKTOR FUSE IS REQUIRED TO ENSURE COMPLIANCE WITH OUR SATISFACTION GUARANTEE.

To remove fuse, first consult the fuse location diagram in your car's Owner's Manual.

Typically, the fuse is labeled "Sound actuator/exhaust sound tuning" and is located at position 5 of fuse block A on the driver's side end of the dashboard. To access this fuse box, wedge a flat head screwdriver under its cover to pry it off. Note that there are three clips, at arrows in **Figure 1**.

Factory fuse puller tool is at **Arrow A** in **Figure 1**.

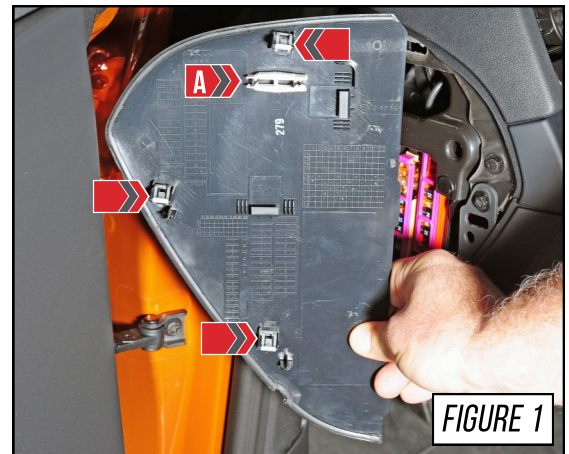


FIGURE 1

STEP 2

Pop off the purple fuse guard frame on the proper fuse block. Remove the proper fuse as listed in your Owner's Manual. Reassemble fuse block and cover.



STEP 3



Installation of the AWE exhaust system is essentially the reverse of removal.



Always refer to the manufacturer service manual for precise torque specifications on all OEM fasteners.

If the optional downpipes are being installed, first soak the fasteners in a penetrating oil for several hours to ensure easy removal.

Fasteners and gaskets are included with the optional downpipes to replace the factory parts. Use a quality anti-seize compound on all fastener threads during re-assembly.

STEP 4

It is crucial to install Accu-Seal clamps correctly to ensure proper torque and clamping force when connecting exhaust tubing.

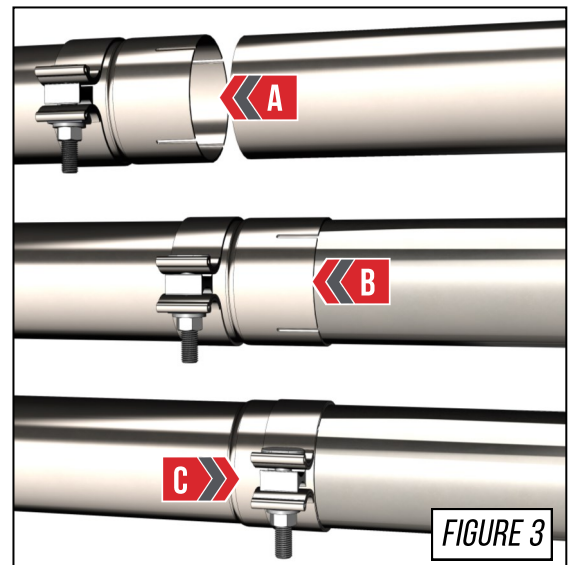
Arrow A in **Figure 3** shows the expanded pipe and the preinstalled Accu-Seal clamp being brought up to the corresponding pipe.

Arrow B in **Figure 3** shows the overlapping pipe installed correctly over the corresponding pipe.

Arrow C in **Figure 3** shows the Accu-Seal clamp being brought to the edge of the expanded pipe.



Do not torque the Accu-Seal clamps until the entire exhaust has been installed and adjusted.



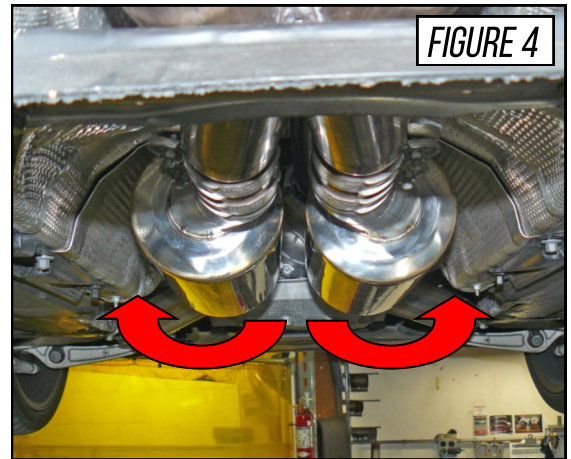
STEP 5

With the system completely cool:

While underneath and looking towards the front of the car, as in **Figure 4**, rotate the LEFT side AWE downpipe resonator clockwise, as far as it will go until it hits the tunnel, and then back it off a few mm. Do the same with the RIGHT side one, rotating it counter clockwise.

If non-resonated downpipes are being installed, rotate the lower sections so that sufficient clearance is gained at the tunnel cross brace that runs beneath them.

After properly adjusting, tighten the clamps that attach the lower sections to the downpipe upper sections.



STEP 6

Next install the mid-muffler section, re-using the factory sleeve clamps, making sure the muffler inlets/outlets are sitting level to the bottom of the car.

Tighten the factory sleeve clamps between the downpipe lower sections and the mid-muffler section.



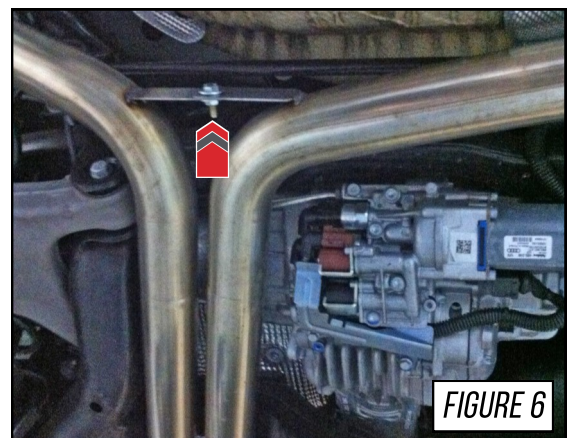
STEP 7

At the rear of the car, install the LEFT side tube that runs between the mid-muffler and the rear resonator.

Install the RIGHT side tube that runs between mid-muffler and the rear resonator.

Install the rear tube cross-bracket fasteners loosely in the bracket holes, at the arrow in **Figure 6**.

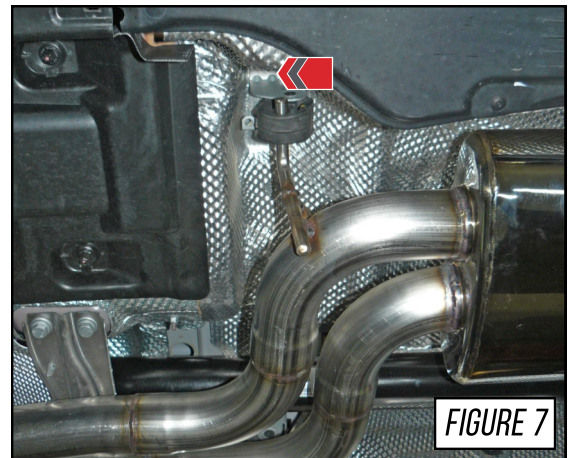
Install the rear outlet assemblies.



STEP 8

While conducting the install of the AWE exhaust:

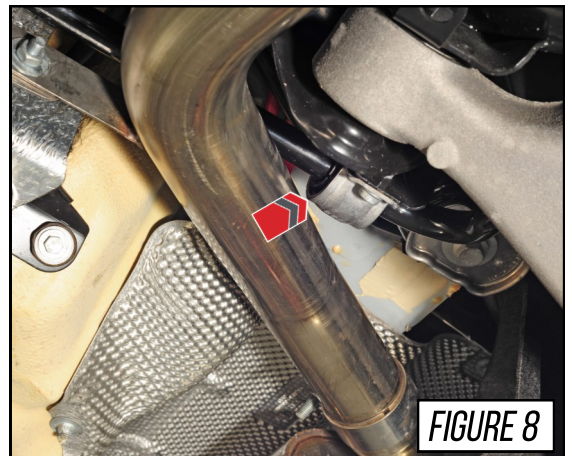
Seat each slip joint so that all the rubber exhaust hangers point towards the front of the car when the system is cold, as shown in **Figure 7**.



STEP 9

With the slip joint clamps loose, adjust the rear resonators so that the tailpipe outlets are level left to right and are centered in the bumper valance openings. To allow the condensation to drain properly. Ensure the hole in the bottom of each resonator to properly drain, make sure that the back (tailpipe side) of the resonators are pointing slightly lower than the fronts (inlet side). Rotate the inlet tubes to correct for this angle. Once lined up and there is proper clearance around the rear differential and sway bar, as shown at arrow in **Figure 8**, tighten the clamps.

Please note that there may be little or no clearance between these tubes and the back of the rear wheel housing liners when the system is cold.



STEP 10

Install the exhaust tips on the tailpipes and set final rotation for proper logo appearance, side by side stagger, and overall length in relation to the bumper. **Once tips are aligned, tighten their integrated clamps until the tips will not rotate, then do an additional full turn on the nut.**

The enclosed M8 fender washers can be used between the rubber hanger mount and the body (at arrows in **Figure 9**), in order to match the higher side to the lower side if needed.

The factory rubber hanger mount can also be shifted right and left to center the tips. Loosen the cross-bracket between the two mid-section outlet pipes, during this adjustment.

Once tips are centered and level, tighten the cross-bracket and rubber hanger mount fasteners.

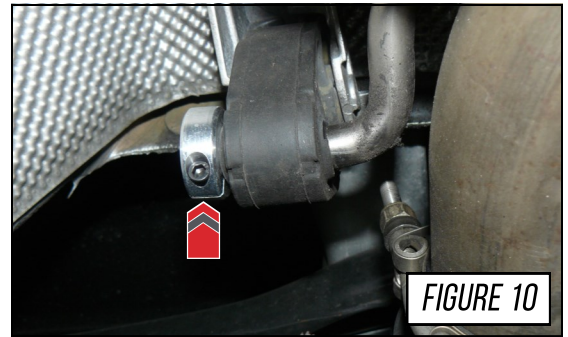
Tighten all the supplied Accu-Seal clamps to 40 ft/lbs. Once the system is fully tightened, go back and adjust the tips if necessary.



STEP 11

Once the exhaust system is properly adjusted, install a hanger post clamp on each of the rear muffler hanger posts, as shown at arrow in **Figure 10**. Slide the clamp onto the hanger post so that it sits snug against the rubber element, and then tighten down with the enclosed Allen wrench.

These clamps will keep the exhaust from sliding laterally under usage and will keep the tips properly aligned in the valance openings.



ENJOY!



CARE

Once installed properly, your AWE performance exhaust will provide years of trouble-free performance.

The exhaust volume and sound will settle with usage; 800-1000 miles is required to break-in new exhaust systems.

Also please note that the rear **180Technology**® resonator has a small drain hole to allow condensation to escape. Water drops from this area are normal.

Periodic cleaning of exhaust tips is necessary to maintain proper finish, especially in areas prone to road salt and caustic deicing solutions. Use a mild soap and water solution or car wax to clean the finish. Avoid using metal polishes, as they can scratch the finish.

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

AWE

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WARRANTY

Summary:

This warranty is in place for all AWE brand products, and works in conjunction with any incremental specific product warranties or guarantees as listed on AWE-Tuning.com. This warranty protects against manufacturer defect. 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. The following warranty is valid only in the United States and Canada. The Manufacturer's full warranty applies to all products sold.

Covered:

All AWE brand products against manufacturer defect. Please note that special order items are not returnable.

Period:

Secor Ltd. (AWE) warrants this **Touring Edition exhaust system and/or Downpipe** for the **2013-2016 Audi B8.5 S4** to the original retail purchaser (Consumer) against manufacturer's defects as follows: **ONE (1) YEAR on exhaust tip finish, LIFETIME on balance of parts**, from purchase date from AWE directly or from an AWE authorized retailer. Proof of purchase will be required.

Condition of system:

In the event of a return, product must be returned with no signs of abuse, incorrect installation, forced installation, motorsports usage, or product altering whatsoever. Actions will be granted upon receipt of product at AWE, after inspection.

Action:

Returns and warranty claims MUST BE HANDLED THROUGH ORIGINAL LOCATION OF PURCHASE. Upon verification of warranty coverage, AWE will, at its sole option, repair, replace or consult toward remedy for 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, labor, inconvenience, loss of use of vehicle, shipping, damage to the vehicle or components, or other incidental or indirect damage.

Labor:

Labor is not covered.

Shipping:

Shipping charges are not covered.

Restocking:

AWE reserves the right to charge a 20% restocking fee for products that are returned.

Exclusions:

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. Warranties may be voided if product is not installed by an authorized AWE dealer. Warranties will be voided if product is improperly serviced, modified, or used in a way not intended by the Manufacturer. 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.

Other:

EXCEPT AS EXPRESSLY SET FORTH ABOVE, AWE MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO ANY MATTER WHATSOEVER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL AWE BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES HOWEVER CAUSED, ON ANY THEORY OF LIABILITY, AND WHETHER OR NOT AWE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. AWE's sole liability on any claim of any kind, whether in contract, tort, or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery or use of the products sold hereunder shall in no case exceed the amount actually paid to AWE for the applicable product. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy.