



INSTALLATION GUIDE: AWE FORD F150 TREMOR EXHAUST

For up-to-date fitment information, please visit the product page on [AWE-Tuning.com](https://www.awe-tuning.com).

THIS GUIDE IS INTENDED FOR THE FOLLOWING PART NUMBERS:

- 3020-33402 AWE 0FG Non-Resonated Catback for '21+ Ford F-150 Tremor (With Bumper Cutouts) - Diamond Black Tips
- 3015-33402 AWE 0FG Resonated Catback for '21+ Ford F-150 Tremor (With Bumper Cutouts) - Diamond Black Tips
- 3020-32402 AWE 0FG Non-Resonated Catback for '21+ Ford F-150 Tremor (With Bumper Cutouts) - Chrome Silver Tips
- 3015-32402 AWE 0FG Resonated Catback for '21+ Ford F-150 Tremor (With Bumper Cutouts) - Chrome Silver Tips

Welcome to the AWE family, and congratulations on your purchase of the AWE Exhaust system for the Ford F-150.

Exquisite build quality and craftsmanship, coupled with industry leading performance, distinguish this exhaust system from all others.

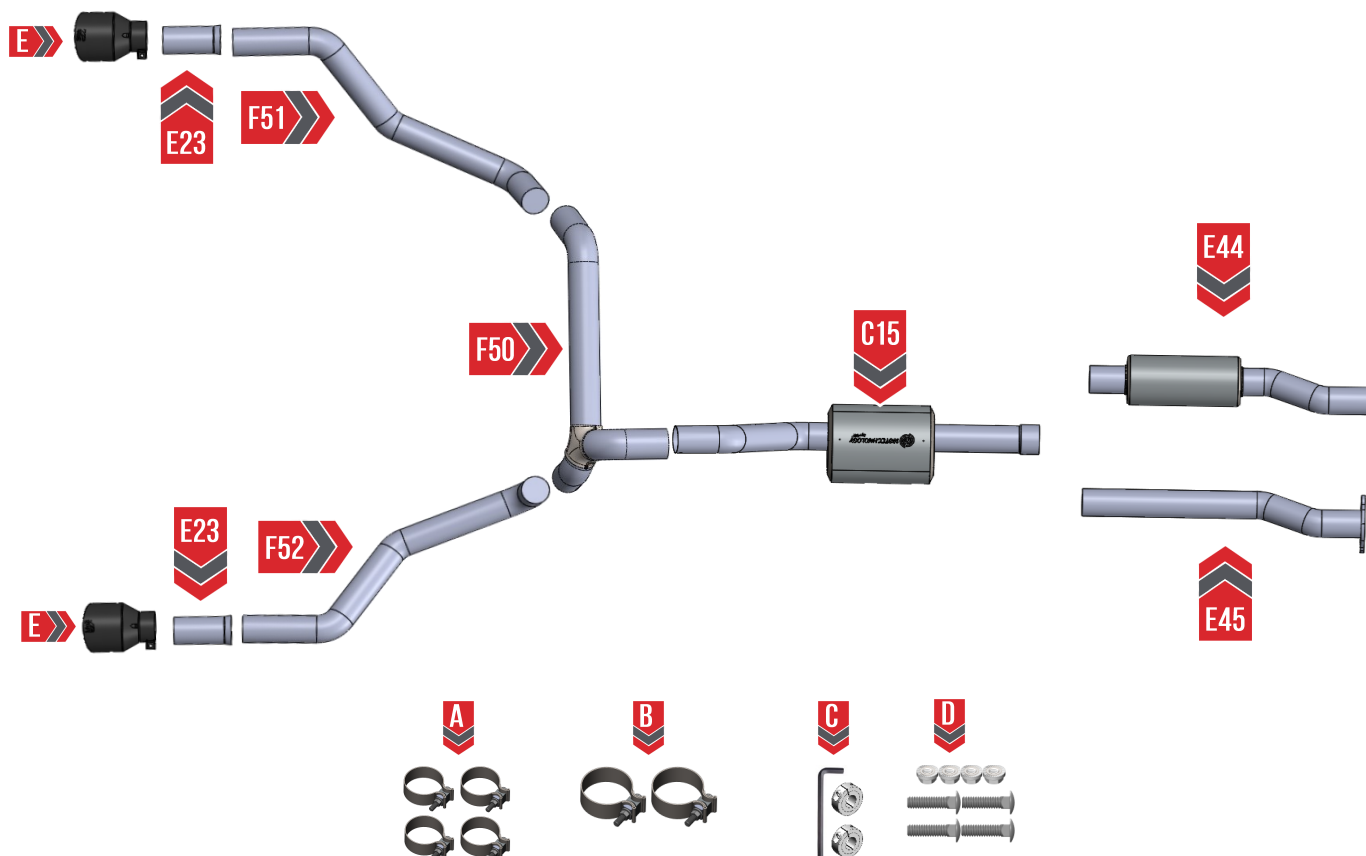
PARTS LIST (BUMPER CUTOUT SYSTEMS)



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

BUMPER CUTOUT EXHAUST SYSTEMS

Symbol	Part Number	Description	QTY
	E44	2021+ F150 Resonated Mid Pipe	1
	E45	2021+ F150 Non Resonated Mid Pipe	1
	C15	Ford F-150 13G HR Mid Section	1
	F50	Ford F-150 14G Tremor Merge Section	1
	F51	Ford F-150 14G Tremor Driver Axle Tube	1
	F52	Ford F-150 14G Tremor Passenger Axle Tube	1
	E23	Rear Exit Dual Mw/cutout D/P Tip Outlet	2
A	180300	AWE 3.0" Band Clamp, Stainless	4
B	SEC75	3" Barrel Clamp (Bubble)	2
C	3910-11012	AWE 1/2" Split Collar Clamp Kit	1
D	3910-41010	**Only takes 1 of these kits per set of 2 or 4 tips** YELLOW Hardware Kit for Integrated Clamp Style Exhaust Tips - Quad	1
E	180006	5.00" OD x 3.00" ID, Slash Cut, Chrome Silver, AWE logo, Integrated Clamp	2
E	180007	5.00" OD x 3.00" ID, Slash Cut, Diamond Black, AWE logo, Integrated Clamp	2





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



CAUTION: The exhaust may be **VERY HOT** — allow adequate time for the system to cool down before disassembly. Severe burns and injury will occur if skin comes into contact with a hot exhaust system.

STEP 1

Start by removing the OE dual exit exhaust by following the steps, shown in **Figure 1**.

Soak all bolts and rubber hangers in penetrating oil before starting any work.

Support the mid muffler with a pole jack to ease the removal of the OE exhaust system.

- A. Remove the 2 rear most OE rubber hangers. The hangers will be reused later.
- B. Loosen the clamps that hold the OE tip sections on to the OE tailpipes. You can fully remove the OE tip sections at this time.
- C. Remove the passenger side OE axle hanger, to allow ease of installation.
- D. The OE driver side hanger can remain in the vehicle.
- E. Lift the tab, and loosen the clamp on the slip joint of the OE muffler section, and the OE over axle tubes. With the tab lifted, and clamps loosened, you can remove the OE over axle tubes from the muffler section.
- F. Remove the OE muffler hangers from the OE hangers.
- G. Remove the OE bolts on the front pipe flange. The OE front pipe can now be removed.

Note: OE hangers and hardware will be reused.

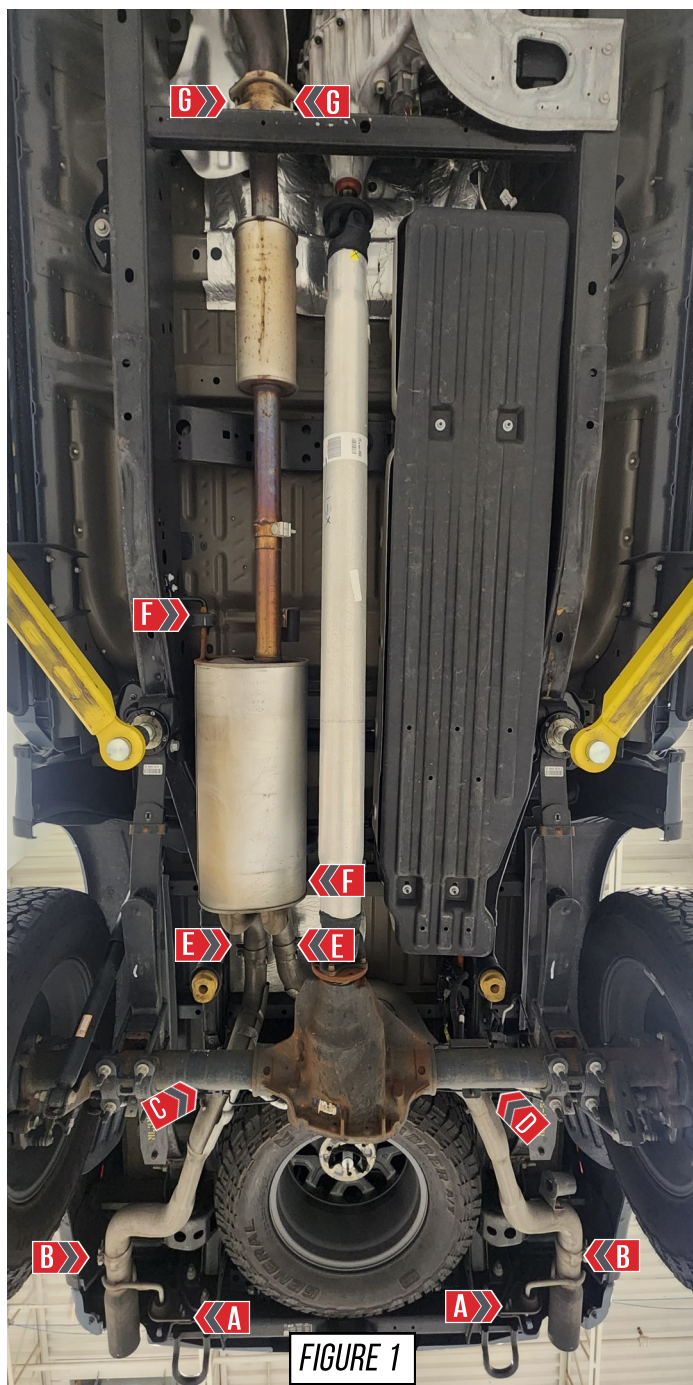


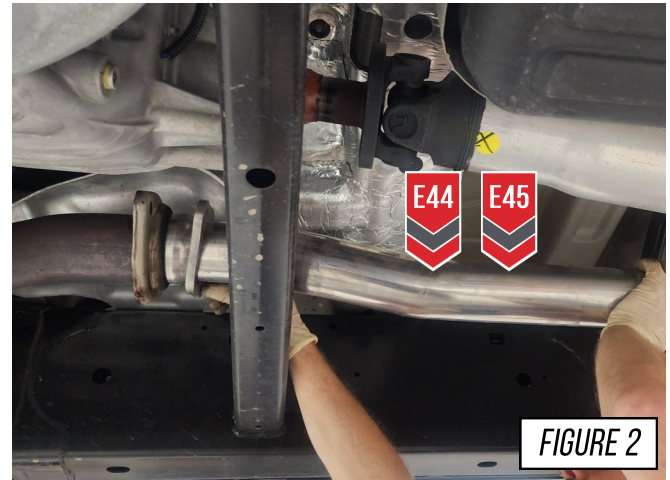
FIGURE 1

STEP 2

Gather your AWE midpipe (**E44/E45**), and install it as shown in **Figure 2**.

With the bend in the tube pointing down out of the flange, use the OE flange bolts removed in **Step 1**, and loosely secure the flange on your AWE midpipe.

Note: Leave the flange bolts loose, as you may need to rotate your midpipe later to achieve correct fitment.



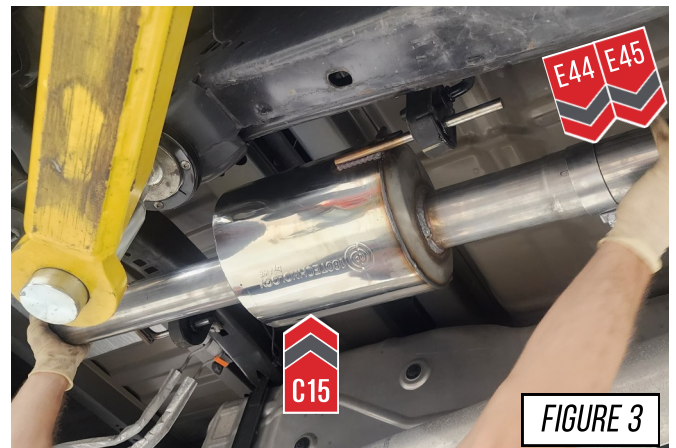
STEP 3

Gather a clamp and your AWE HR mid section (**C15**), slide a clamp over the expanded end of the HR mid section.

Install your AWE HR section as shown in **Figure 3**.

Start by sliding the hanger bars into the OE rubber hangers, then fully bottom out the slip joint, as shown in **Figure 3**.

Snug the clamp, but do not fully tighten at this time.

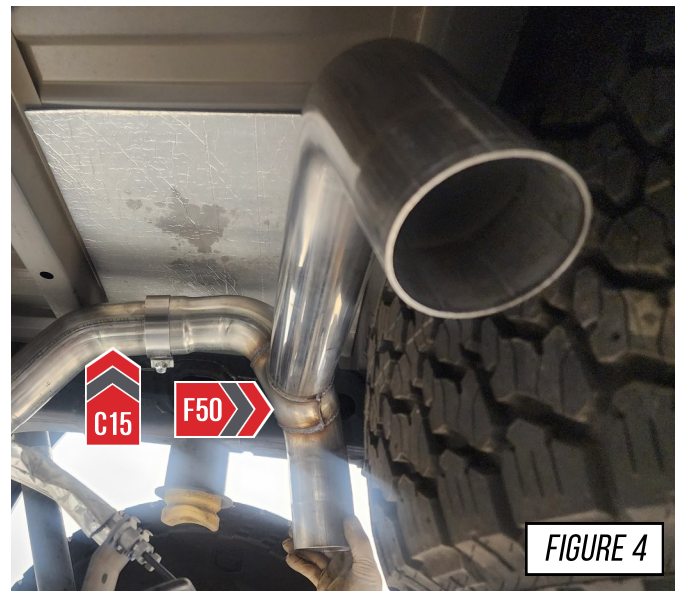


STEP 4

Install your AWE merge section. Do this by first gathering a clamp and sliding it over the expanded side of the merge section.

Next bottom out the merge section (**F50**) slip joint on the HR section (**C15**), as shown in **Figure 4**.

Note: The legs of the merge section should be installed parallel to the ground.



STEP 5

It is crucial to install each section and Accu-Seal clamp correctly to prevent loose joints, exhaust leaks between the tubing connections, and rattles.

Arrow A in **Figure 5** shows the expanded pipe and the preinstalled Accu-Seal clamp being brought up to the corresponding pipe.

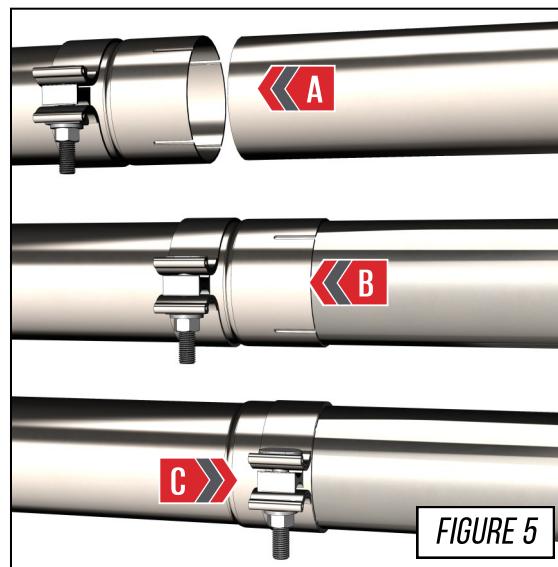
Arrow B in **Figure 5** shows the overlapping pipe installed correctly over the corresponding pipe.

Arrow C in **Figure 5** shows the Accu-Seal clamp being brought to the edge of the expanded pipe.

NOTES:



- **Do not** torque any Accu-Seal clamp until the entire exhaust has been installed and adjusted.
- Torque specification is a minimum of 60 ft/lbs



STEP 6

Gather a provided clamp, and your AWE driver side axle tube (**F51**), slide the hanger bar into the OE hanger, as shown at (**A**) in **Figure 6**.

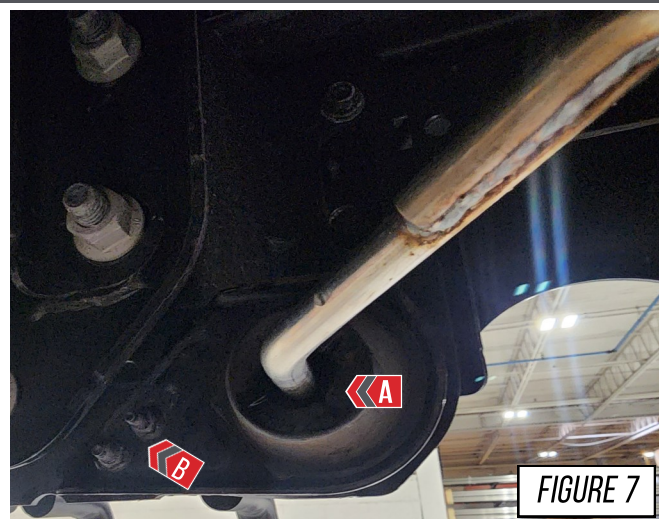
Next bottom out the slip joint and snug the clamp, but do not fully tighten at this time.



STEP 7

Slide the OE rear hanger removed in **Step 1** onto the AWE driver side axle tube rear hanger bar, shown at (**A**) in **Figure 7**.

Using the OE hardware reinstall the OE hanger, as shown at (**B**) in **Figure 7**.



STEP 8

Before installing your AWE passenger side axle tube (**F52**), install the OE passenger side axle hanger that was removed in **Step 1** onto the hanger bar closest to the slip joint, as shown at (**A**) in **Figure 8**.

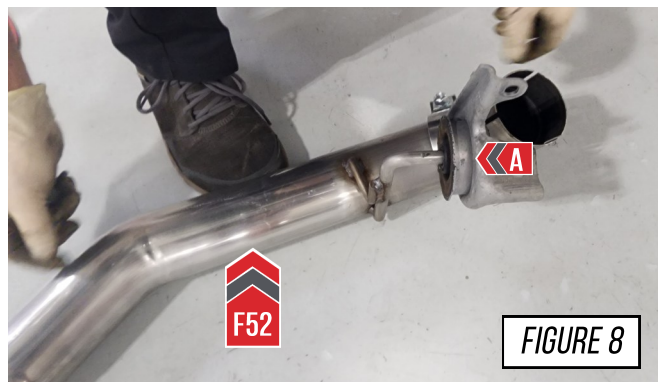


FIGURE 8

STEP 9

Slide a clamp over the expanded end of your AWE passenger side axle tube (**F52**).

With the OE hanger installed on your AWE passenger side axle tube, reinstall the OE hanger.

While reinstalling the hanger line up the slip fit, and bottom it out on the AWE merge section (**F50**).

Snug the clamp over the slip joint but do not fully tighten it at this time.

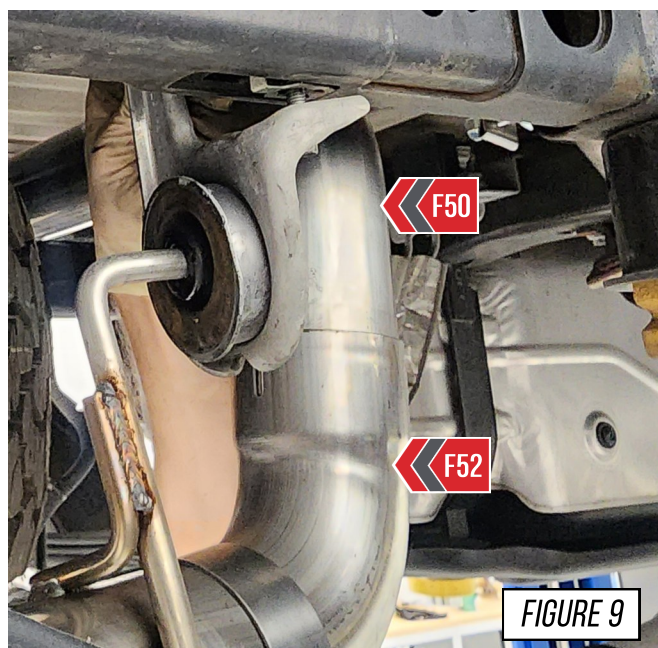
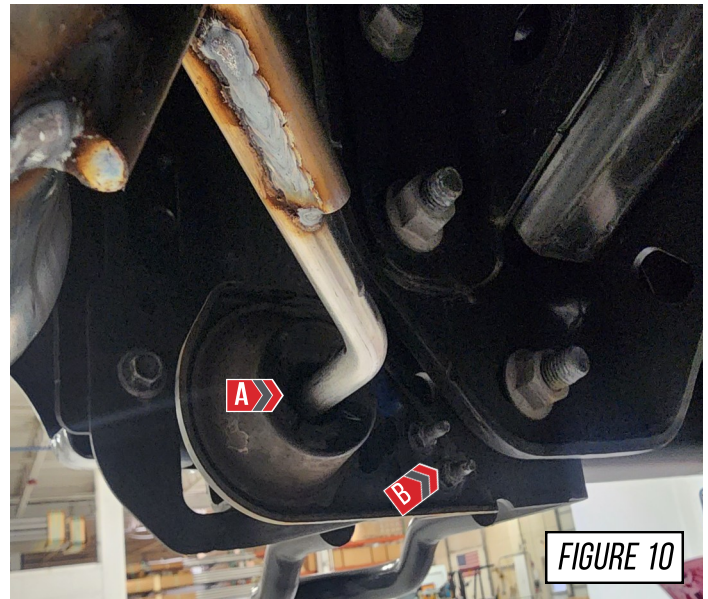


FIGURE 9

STEP 10

Slide the OE rear hanger removed in **Step 1** onto the AWE driver side axle tube rear hanger bar, shown at (A) in **Figure 10**.

Using the OE hardware reinstall the oe hanger, as shown at (B) in **Figure 10**.

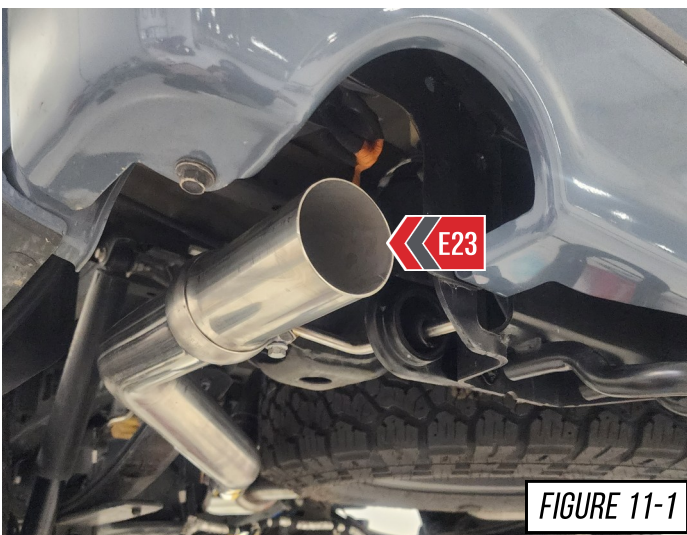


STEP 11

Install your AWE tip outlet sections. Gather your 2 provided barrel clamps and your tip outlet sections (**E23**).

Install your driver side tip outlet section, slide the barrel clamp over the flared ends and snug the clamp with the outlet centered in the cutout, as shown in **Figure 11-1**. Do not fully tighten the clamp at this time.

Install your passenger side tip outlet section, slide the barrel clamp over the flared ends and snug the clamp with the outlet centered in the cutout, as shown in **Figure 11-2**. Do not fully tighten the clamp at this time.



STEP 12

To install the exhaust tips with integrated clamps, first, attach the exhaust tip in the proper orientation onto the exhaust outlet tube.

Insert one of the carriage bolts from the hardware kit (**3910-41010**) through the tab on the exhaust tip and thread on one of the corresponding nuts.

Using anti-seize on the bolt threads will help installation and prevent breakage of hardware.

 If exhaust system only has 2 exhaust tips while the integrated clamp kit has enough hardware for our 4 tip exhaust systems. You will have 2 sets of hardware left over that will not be used.

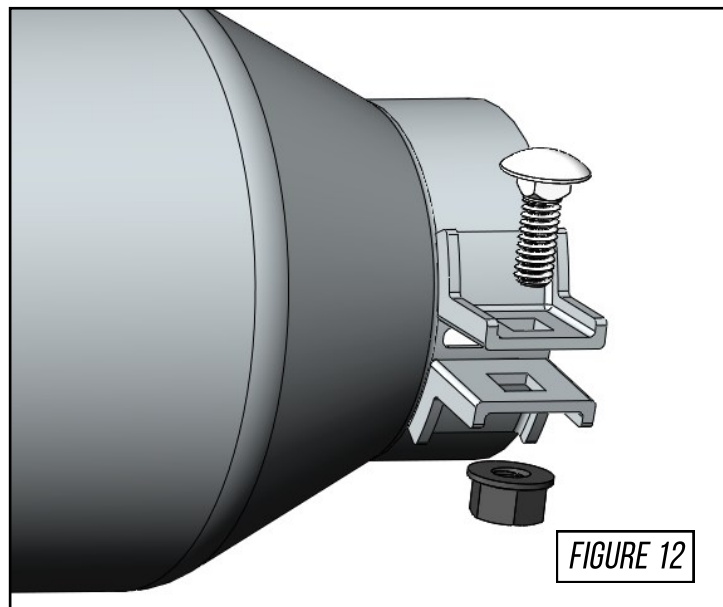


FIGURE 12

STEP 13

Gather and install your 2 AWE tips using the provided hardware, as shown in **Figure 13-1**, and **Figure 13-2**.

Do not fully tighten your tips at this time.

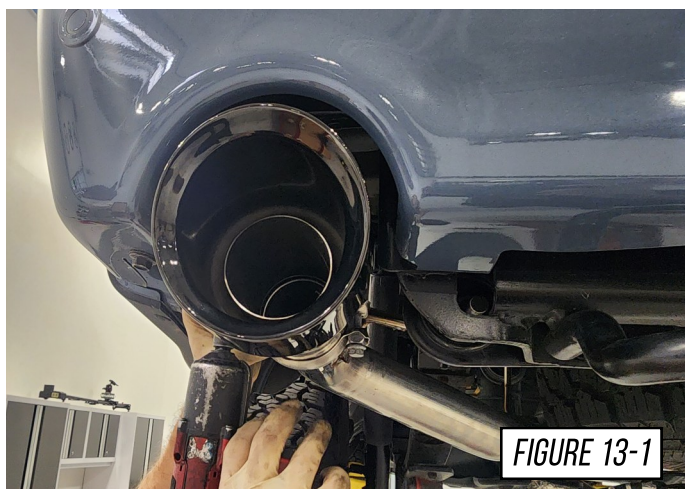


FIGURE 13-1

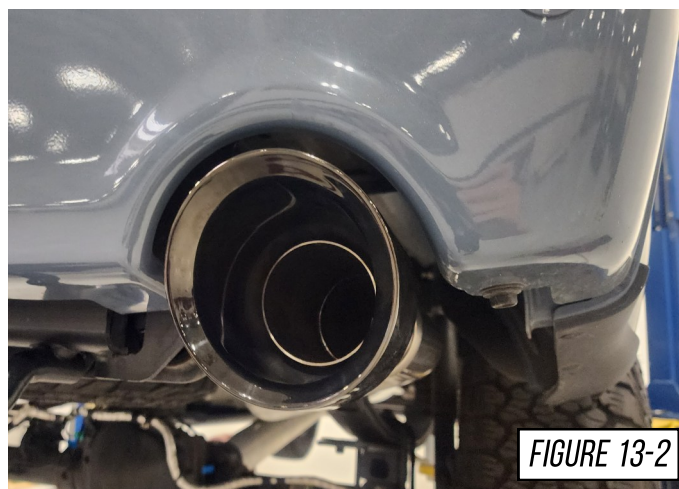


FIGURE 13-2

STEP 14

Make your final adjustments to the tips to ensure they are in a position you like. Once the desired positioning is achieved work from the front of the car to the back, tightening all the clamps fully and ensuring there is proper clearance of the chassis and braces.

It is now recommended to drive the car to allow the exhaust to heat cycle after all clamps and tips are fully tightened.



At this point the exhaust will be **very hot**, allow to cool before work continues.

Check the tips for correct alignment, adjust as needed.



Don't forget to see the next page for any troubleshooting needs!



ENJOY!



TROUBLESHOOTING

Issue	Solution
Exhaust is not fitting correctly	Most fitment issues are due to improperly adjusted exhaust. This includes tip fitments and rattling due to chassis contact. Check out our fitment guide for more installation tips.
Wrong or missing parts	Double check the parts list for your system and compare them with what you received. Fill out our contact form, found below and let us know what parts you need.

CARE

Once installed properly, your AWE 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 abrasive polishes, as they can scratch the finish.

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

AWE
215-658-1670
[CONTACT FORM](#)

WARRANTY

Up-to-date warranty information is found [HERE](#).