



## INSTALLATION GUIDE: AWE EXHAUST SUITE FOR THE FORD MUSTANG S650 GT DUAL TIP

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:

- 3020-32650 AWE Track Edition Exhaust for S650 Mustang GT Coupe - Dual Chrome Silver Tips
- 3020-33650 AWE Track Edition Exhaust for S650 Mustang GT Coupe - Dual Diamond Black Tips
- 3015-32650 AWE Touring Edition Exhaust for S650 Mustang GT Coupe - Dual Chrome Silver Tips
- 3015-33650 AWE Touring Edition Exhaust for S650 Mustang GT Coupe - Dual Diamond Black Tips
- 3015-31650 AWE Track-to-Touring Conversion Kit for S650 Mustang GT Coupe - Dual Tips
- 3020-31650 AWE Touring-to-Track Conversion Kit for S650 Mustang GT Coupe - Dual Tips

Welcome to the AWE family, and congratulations on your purchase of the AWE Exhaust System for the Mustang S650 GT Dual Tip

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

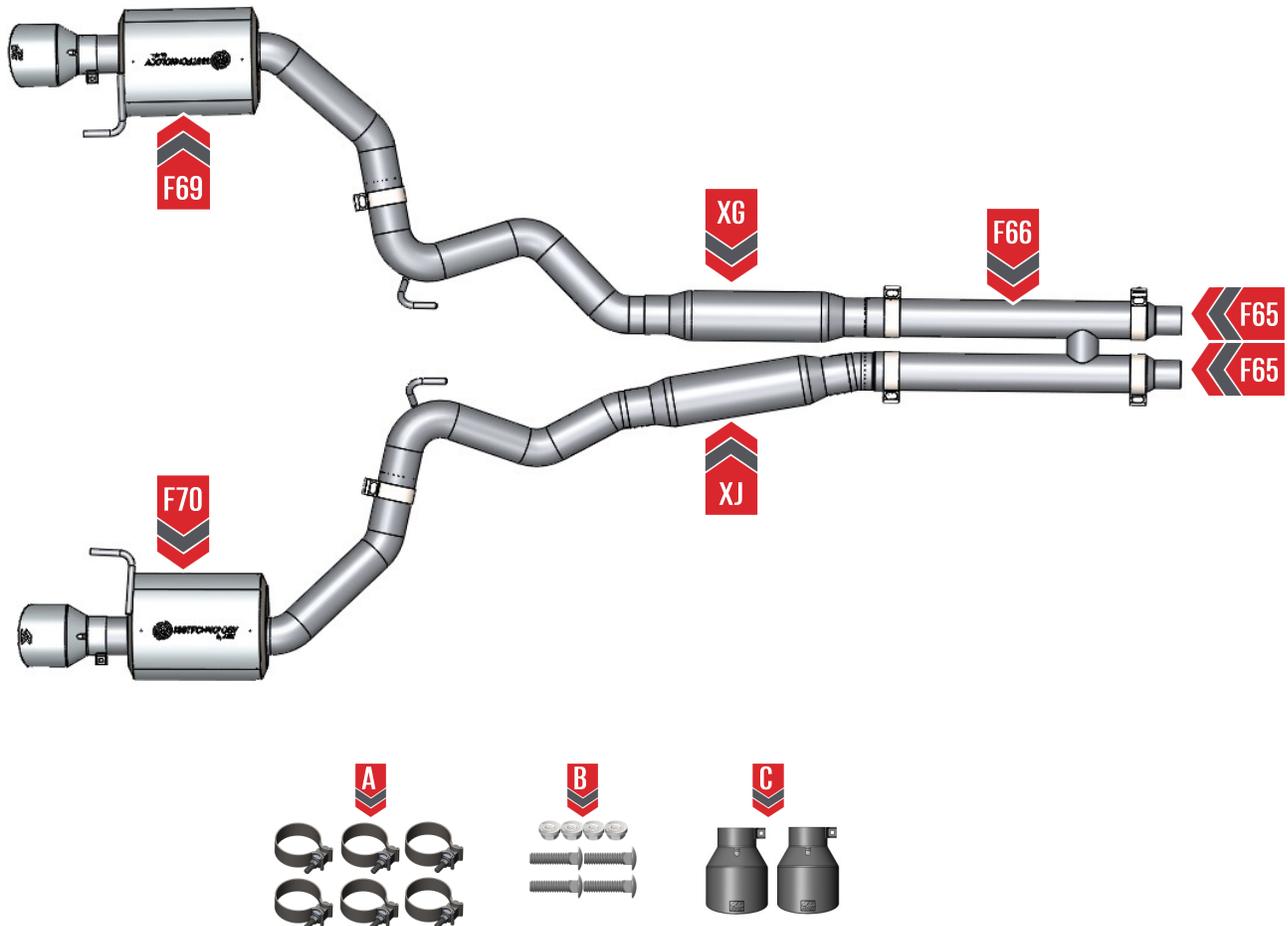
\*For up to the minute fitment information, be sure to visit the AWE website. As always, AWE Performance Specialists are standing by for any questions, [right here](#).

# PARTS LIST (GT DUAL TIP TOURING)



Inspect **ALL** parts prior to disassembly of vehicle; If damaged or **MISSING**, please contact the place of purchase immediately.

Symbol	Part Number	Description	QTY
	F65	Mustang GT H-pipe OEM adapter	2
	F66	Mustang GT H-pipe	1
	XG	Mustang GT DS Cat Back Axle Tube	1
	XJ	Mustang GT PS Cat Back Axle Tube	1
	F69	S650 Mustang GT Dual Tip DS Touring Rear	1
	F70	S650 Mustang GT Dual Tip PS Touring Rear	1
<b>A</b> >>	180300	AWE 3.0" Band Clamp	6
<b>B</b> >>	3910-41010	**Only takes 1 of these kits per set of 2 or 4 tips** Hardware Kit for Integrated Clamp Style Exhaust Tips - Quad	1
<b>C</b> >>	180014	77mm Inlet, 114mm OD, Integrated clamp, Chrome Silver	2
	180015	4.50" OD x 3.00" ID, Slash Cut, Diamond Black, AWE Logo, Inter- grated Clamp	2

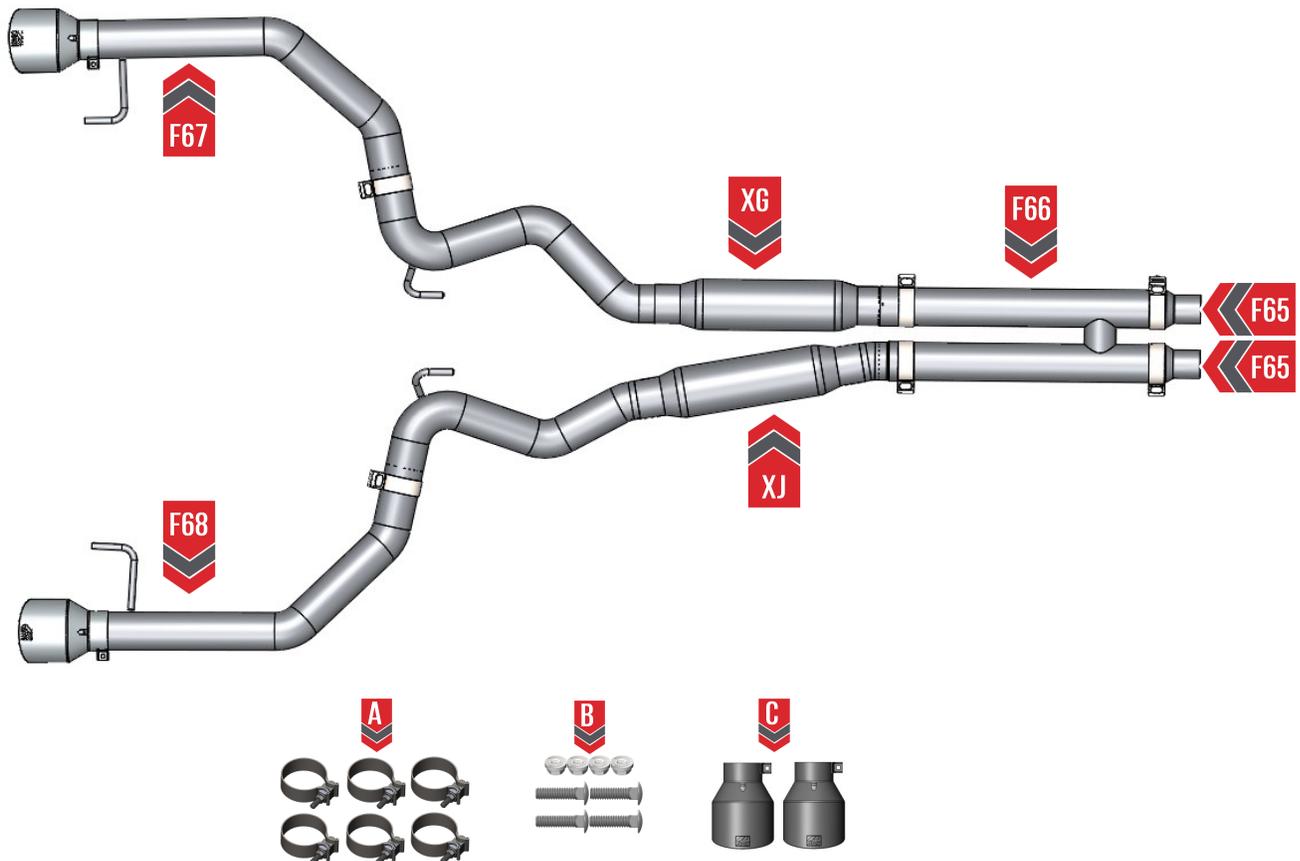


# PARTS LIST (GT DUAL TIP TRACK)



Inspect **ALL** parts prior to disassembly of vehicle; If damaged or **MISSING**, please contact the place of purchase immediately.

Symbol	Part Number	Description	QTY
	F65	Mustang GT H-pipe OEM adapter	2
	F66	Mustang GT H-pipe	1
	XG	Mustang GT DS Cat Back Axle Tube	1
	XJ	Mustang GT PS Cat Back Axle Tube	1
	F67	S650 Mustang GT Dual Tip DS Track Rear	1
	F68	S650 Mustang GT Dual Tip PS Track Rear	1
<b>A</b> >>	180300	AWE 3.0" Band Clamp	6
<b>B</b> >>	3910-41010	**Only takes 1 of these kits per set of 2 or 4 tips** Hardware Kit for Integrated Clamp Style Exhaust Tips - Quad	1
<b>C</b> >>	180014	77mm Inlet, 114mm OD, Integrated clamp, Chrome Silver	2
	180015	4.50" 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.

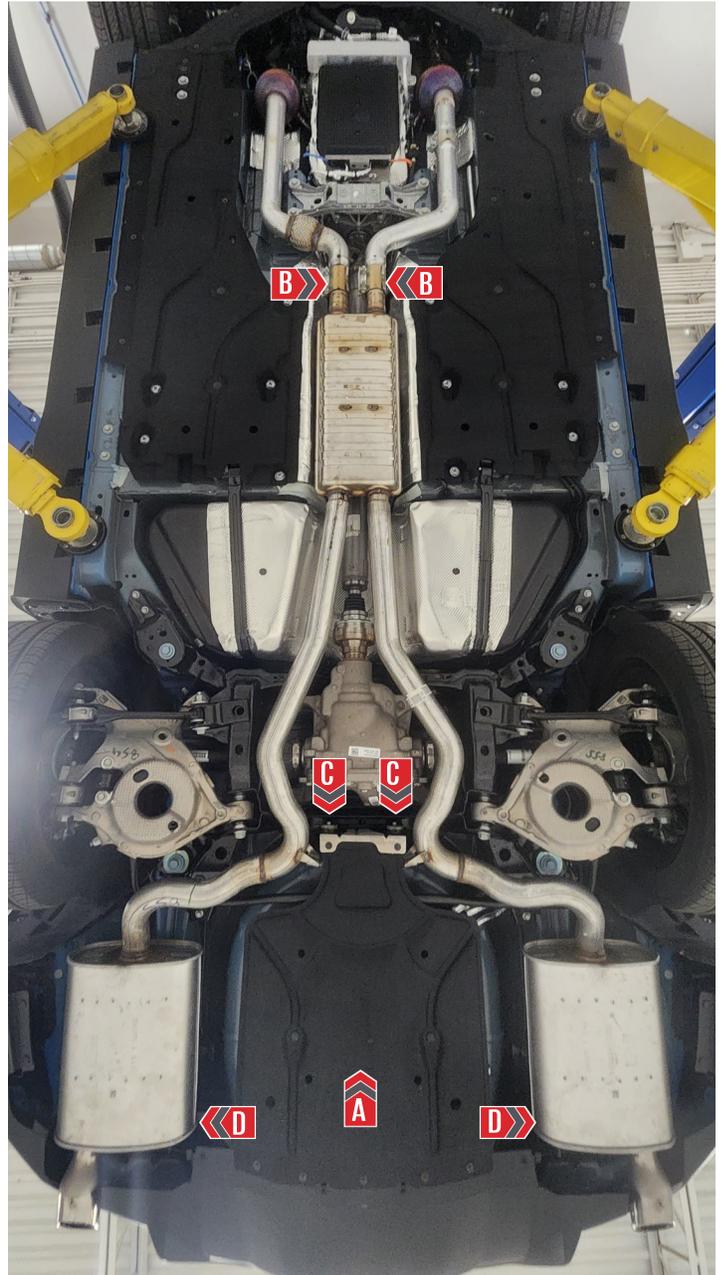
## STEP 1



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

1. Remove the factory heatshield shown at **(A)**. The heatshield will be reinstalled later using OE hardware.
2. Loosen the OE clamps, shown at **(B)**.
3. Remove the OE hangers shown at **(C)**.
4. Remove the OE hangers, shown at **(D)**.

**Note:** All of the OE hangers will be reused with your AWE exhaust



## STEP 2

Gather your AWE H-Pipe (**F66**), and your AWE H-Pipe OEM adapters (**F65**). Slide the OEM adapters into the expanded ends, as shown in **Figure 2**.

Using two of the provided clamps, fully tighten down the clamps on the expanded ends of the tubes.

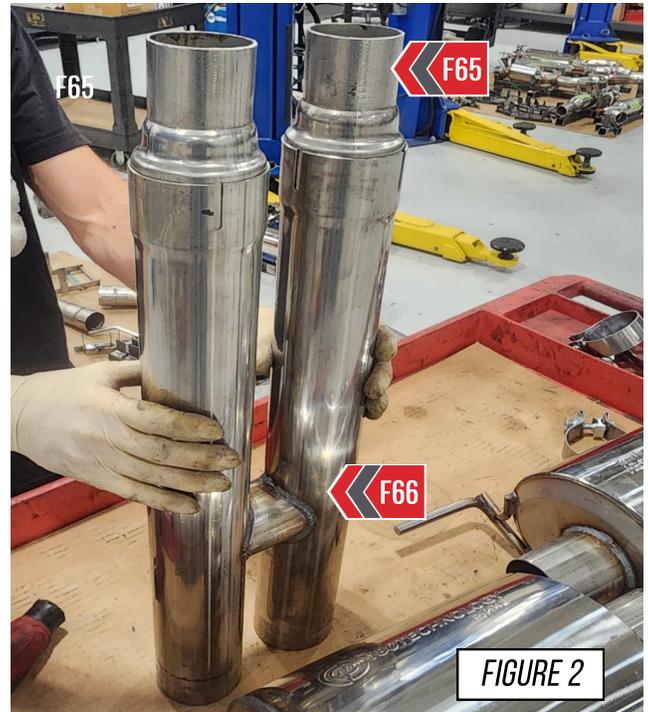


FIGURE 2

## STEP 3

It is crucial to install each section and exhaust band clamps correctly to prevent loose joints, exhaust leaks and rattles.

**Arrow A** shows the expanded pipe and the preinstalled exhaust clamp being brought up to the corresponding pipe.

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

**Arrow C** shows the exhaust band clamp being brought to the edge of the expanded pipe.



### NOTES:

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

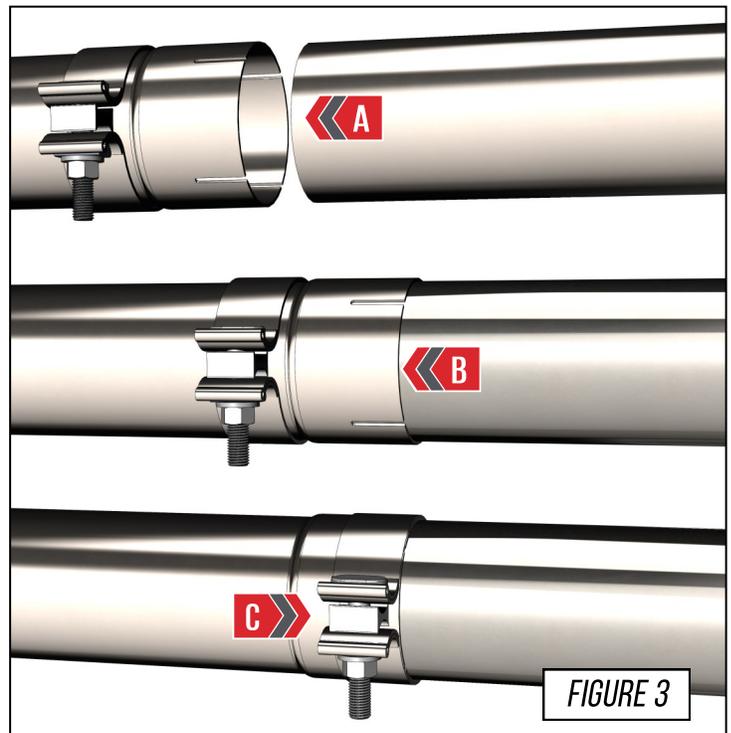


FIGURE 3

## STEP 4

With your H-pipe assembly fully together, install your AWE H-pipe using the OE sleeve clamps, as shown in **Figure 4**.

**Note:** It is important to install the H-pipe so it is level with the ground, to achieve correct fitment.

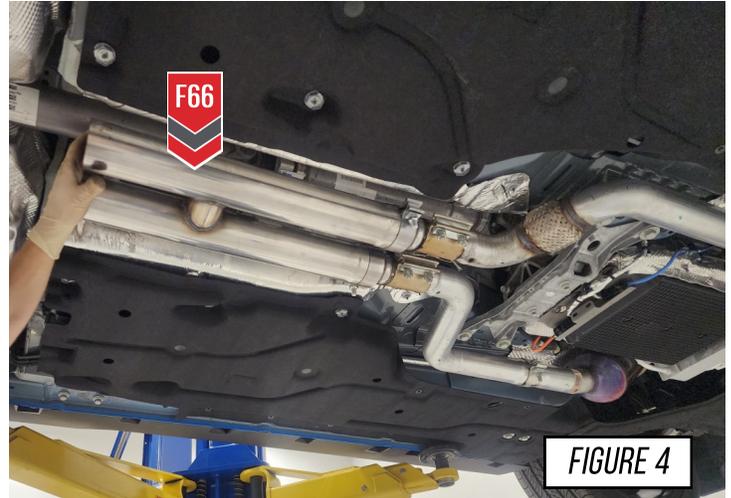


FIGURE 4

## STEP 5

At this point remove the hangers from the OE system as shown in **Figure 5-1**, **Figure 5-2**, and **Figure 5-3**.

Reinstall the hangers from **Figure 5-1** into the car.

Slide the hangers from **Figure 5-2**, and **Figure 5-3** onto their respective driver side, and passenger side outlet tubes.



FIGURE 5-1



FIGURE 5-2

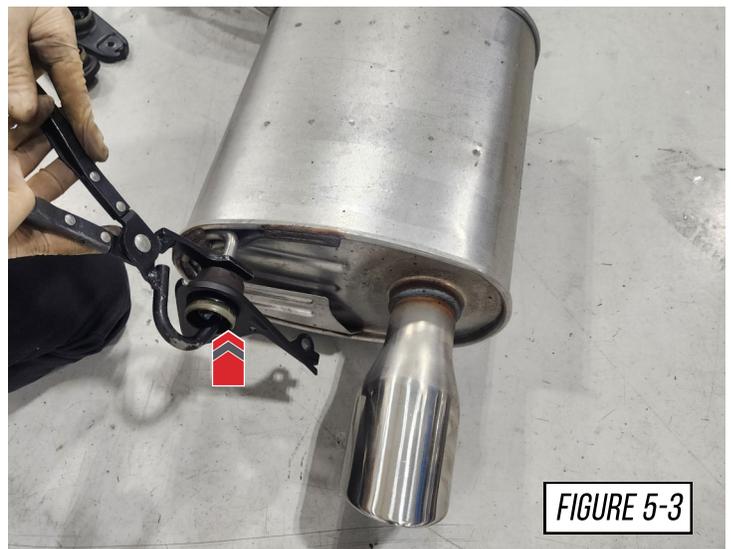


FIGURE 5-3

## STEP 6

Gather your AWE Driver side resonator tube (**XG**), and install it as shown in **Figure 6**.

First slide the hanger bar into the OE driver side hanger that was reinstalled in **Step 4**, shown at (**A**).

Then slide a clamp on the expanded slip joint, and bottom out the slip joint on the rear side of your AWE H-pipe (**F66**).

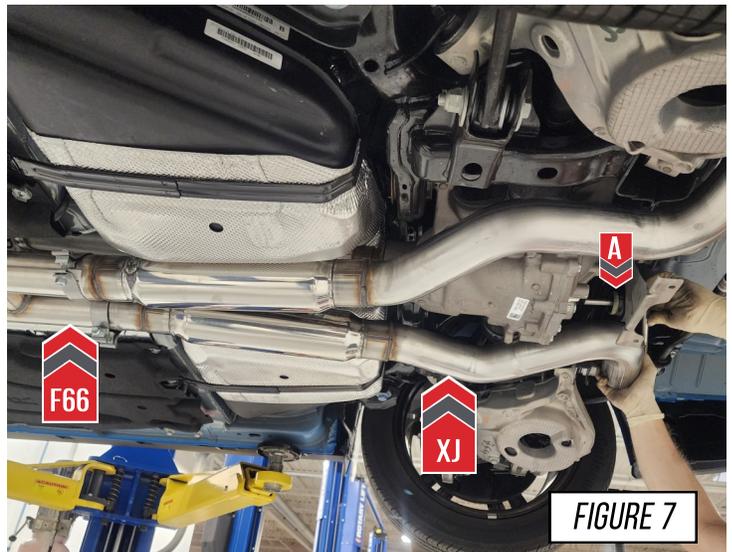


## STEP 7

Gather your AWE Passenger side resonator tube (**XJ**), and install it as shown in **Figure 7**.

First slide the hanger bar into the OE passenger side hanger that was reinstalled in **Step 4**, shown at (**A**).

Then slide a clamp on the expanded slip joint, and bottom out the slip joint on the rear side of your AWE H-pipe (**F66**).

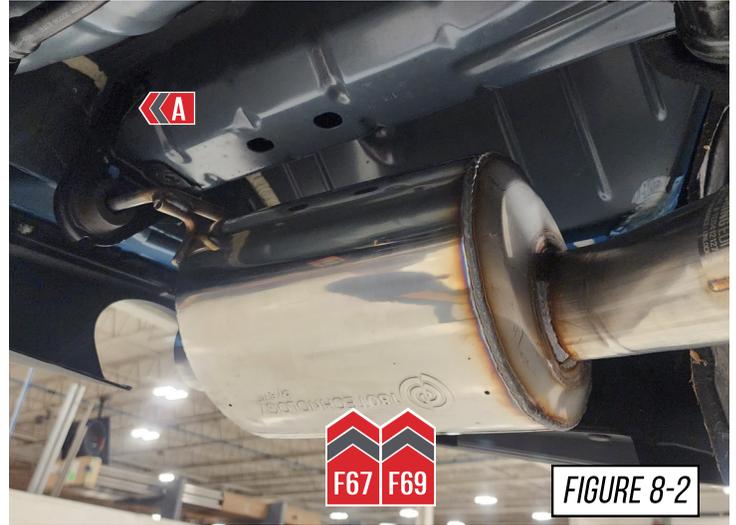
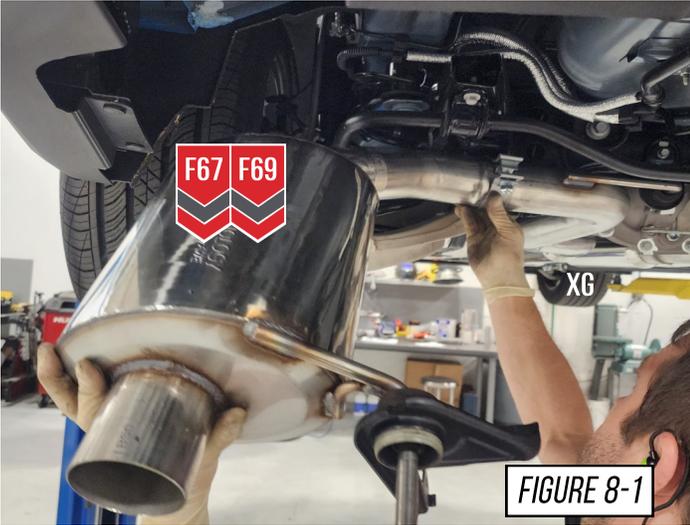


## STEP 8

Gather your AWE driver side outlet tube (**F67/F69**), slide a provided clamp over the expanded end, and bottom out the slip fit onto the back of your driver side resonator tube (**XG**), as shown in **Figure 8-1**.

Next rotate the driver side outlet tube up into position, and secure it in place by reinstalling the OE hanger, as shown at (**A**) in **Figure 8-2**.

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

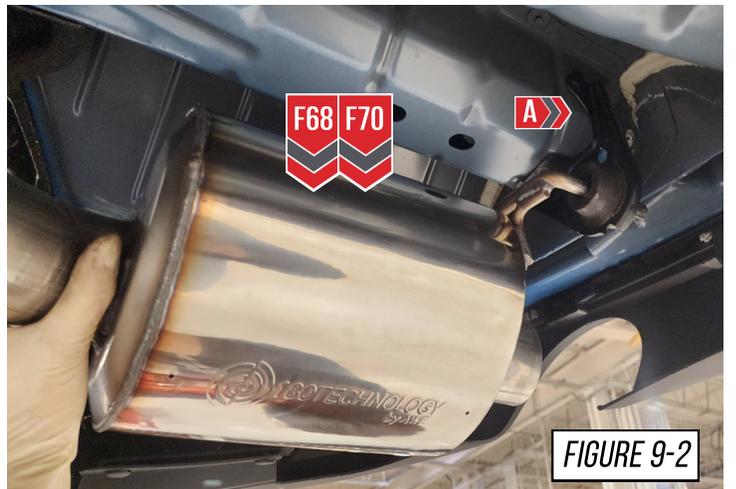
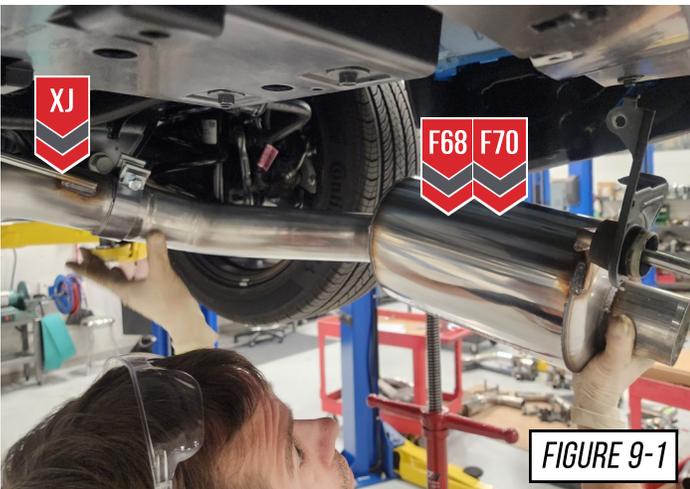


## STEP 9

Gather your AWE passenger side outlet tube (**F68/F70**), slide a provided clamp over the expanded end, and bottom out the slip fit onto the back of your driver side resonator tube (**XJ**), as shown in **Figure 9-1**.

Next rotate the driver side outlet tube up into position, and secure it in place by reinstalling the OE hanger, as shown in **Figure 9-2**.

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



## STEP 10

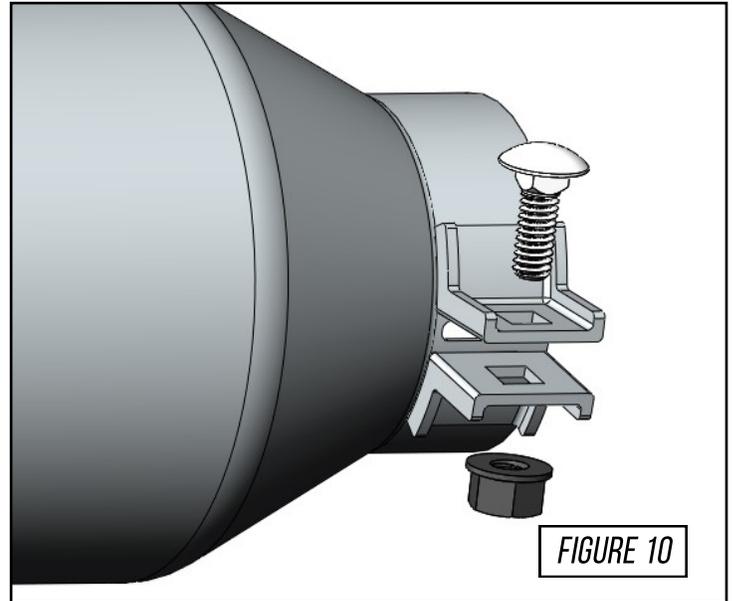
To install the exhaust tips with integrated clamps, first, attach the exhaust tip in the proper orientation onto the exhaust outlet tube.

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.



## STEP 11

Now install your two tips onto your exhaust, as shown in **Figure 11**.

With you're your tips installed, work from front clamps back fully tightening all clamps, and bolts. Ensure the tips stay in their desired position.



## STEP 12

With your tips installed, and all clamps fully tightened reinstall the OE rear heat shield using the OE hardware, as shown in **Figure 12**.



## STEP 13

With the complete AWE exhaust system installed, all clamps tightened and the tips aligned. It is now recommended to drive the car to allow the exhaust to heat cycle.

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

With the car cooled down, check the tips for correct alignment.

 Don't forget to look below 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 FAQ/ <a href="#">fitment guide</a> for more installation tips.
Incorrect 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. For best results, we recommend [AWE's Fantastic Tip Tonic](#).

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

**AWE**  
**CONTACT FORM**

# WARRANTY

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