



INSTALLATION GUIDE: AWE AXLE BACK EXHAUST SUITE FOR THE BMW F3X 328I / 428I

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:

- 3010-23022 AWE Touring Edition Axle-back Exhaust for BMW F3X 28i / 30i, Single Side -- Diamond Black Tips
- 3010-43036 AWE Touring Edition Axle-back Exhaust, Quad Outlet for BMW F3X N20/N26 328i/428i - Diamond Black Tip

Welcome to the AWE family, and congratulations on your purchase of the AWE Exhaust System for the BMW F3X.

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 (DUAL TIP)



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

Symbol	Part Number	Description	QTY
	KF	Coupler, BMW F30, Axle-Back	1
	KH	Rear Muffler Section, BMW F30	1
	KIT_6	BMW HARDWARE KIT - VALVE MOTOR BOLTS, LOCK COLLARS	1
	390300	3 Inch SS Smart Seal Band Clamp	3
Exhaust Tip Options			
	KJ	Single Outlet Section, BMW F30, Chrome Tips	1
	KK	Single Outlet Section, BMW F30, Diamond Black Tips	1

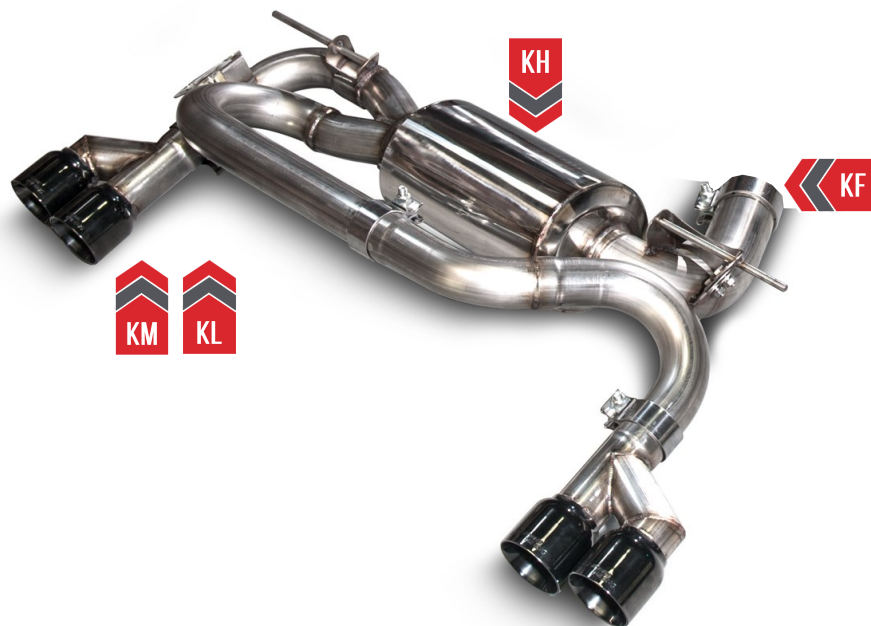


PARTS LIST (QUAD TIP)



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

Symbol	Part Number	Description	QTY
	KF	Coupler, BMW F30, Axle-Back	1
	KH	Rear Muffler Section, BMW F30	1
	KIT_6	BMW HARDWARE KIT - VALVE MOTOR BOLTS, LOCK COLLARS	1
	KIT_7	BMW HARDWARE KIT - DUAL/QUAD HANGER MOUNT	1
	390300	3 Inch SS Smart Seal Band Clamp	3
Exhaust Tip Options			
	KM	Quad Outlet Section, BMW F30, Diamond Black Tips	1
	KL	Quad Outlet Section, BMW F30, Chrome Tips	1





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



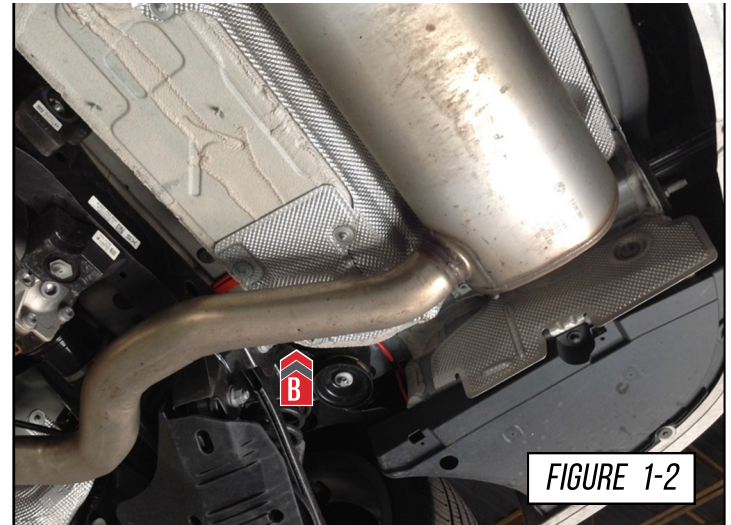
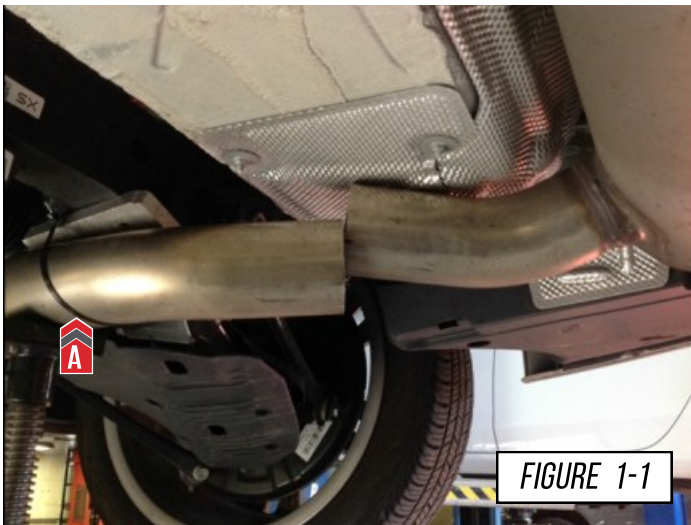
CAUTION: The exhaust may be **VERY HOT** — allow adequate time for the system to cool down before disassembly. Severe burns and injury will occur if skin comes into contact with a hot exhaust system.

STEP 1

Installation of your AWE Axle-Back exhaust with factory mid pipe will require the exhaust be cut just after the rear axle. Before cutting, use a cable tie or other manner to support the factory exhaust as shown at Arrow (A) in **Figure 1-1**.

Locate the dimple in the factory exhaust, at Arrow (B) in **Figure 1-2**, and mark the tubing at this point.

Note: Wrap the cut edge in tape, to act as a guide when cutting.

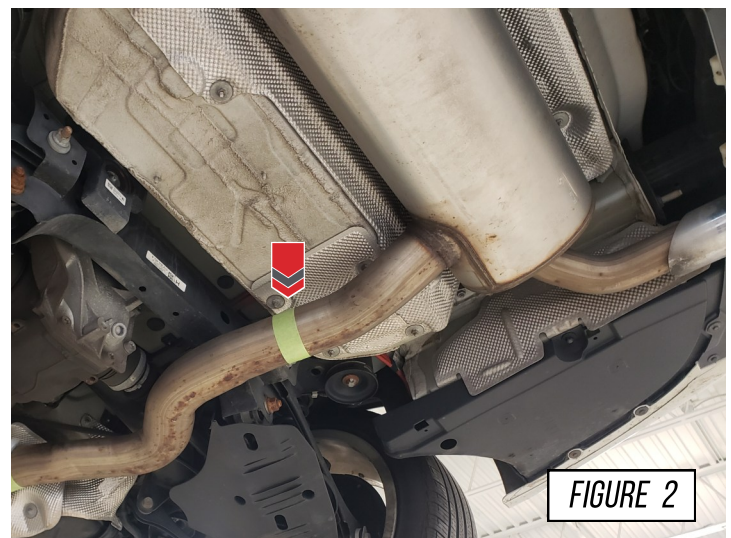


STEP 2

Next cut straight through the tubing on the line you just made.



Keep the cut straight.

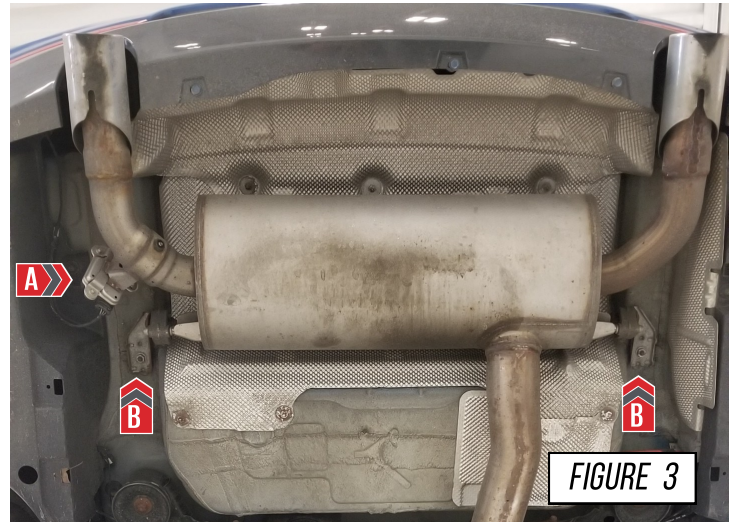


STEP 3

Unclip the wire harness to the valve motor located behind the tip on the driver side of the vehicle shown by Arrow (A).

Remove the nuts fastening the hanger brackets shown by Arrows (B) in **Figure 3** to finish removing the axle-back system from the vehicle.

Note: You may also choose to remove the OEM hanger bar from the rubber grommet and leave the bracket on the vehicle.



STEP 4

Deburr the end of the cut tubing. Ensuring the outside of the tube is free of debris, this will make installation of your AWE exhaust easier.

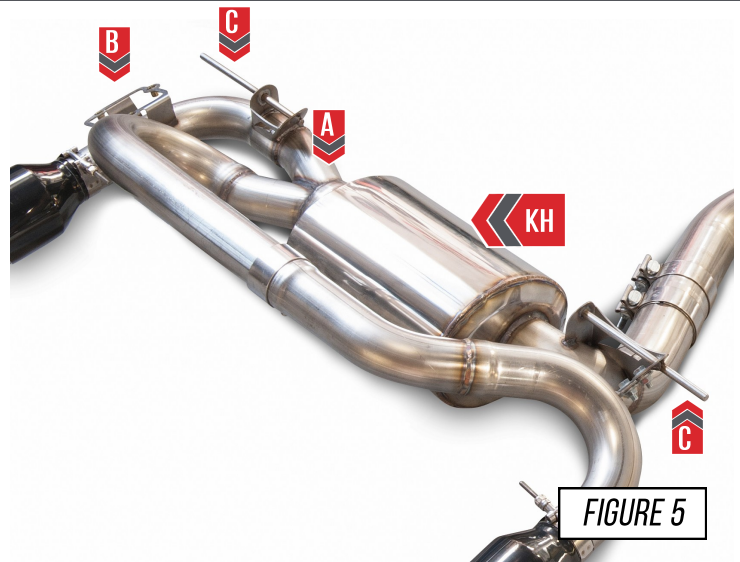


STEP 5

Gather your AWE section (KH) and your AWE tip section, using a supplied clamp at Arrow (A) attach the 2 components together.

Unbolt valve motor from the factory exhaust. Use the supplied M6 bolts and washers to mount the valve motor onto the AWE Touring Exhaust bracket at Arrow (B).

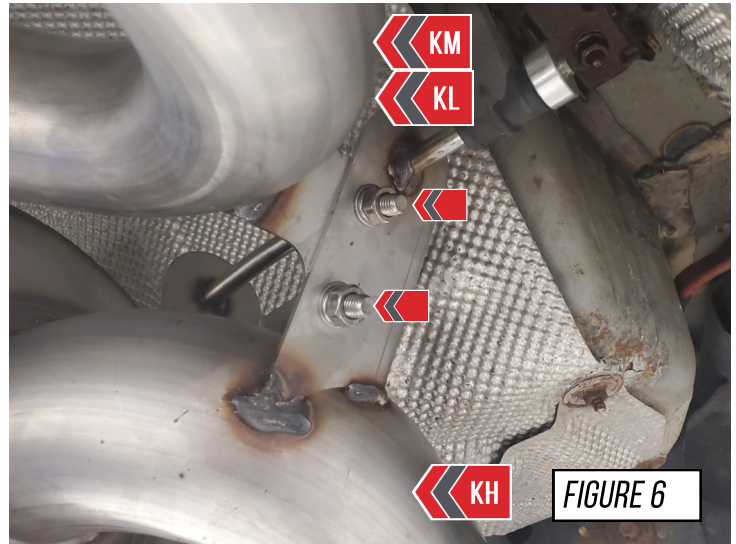
Slip on factory hanger brackets onto your AWE exhaust hanger bars, shown at Arrow (C).



STEP 6

Quad Tip **ONLY**.

Use the supplied M8 hardware to secure passenger outlet tab (**KL** or **KM**) to rear muffler bracket (**KH**) as shown in **Figure 6**.



STEP 7

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.

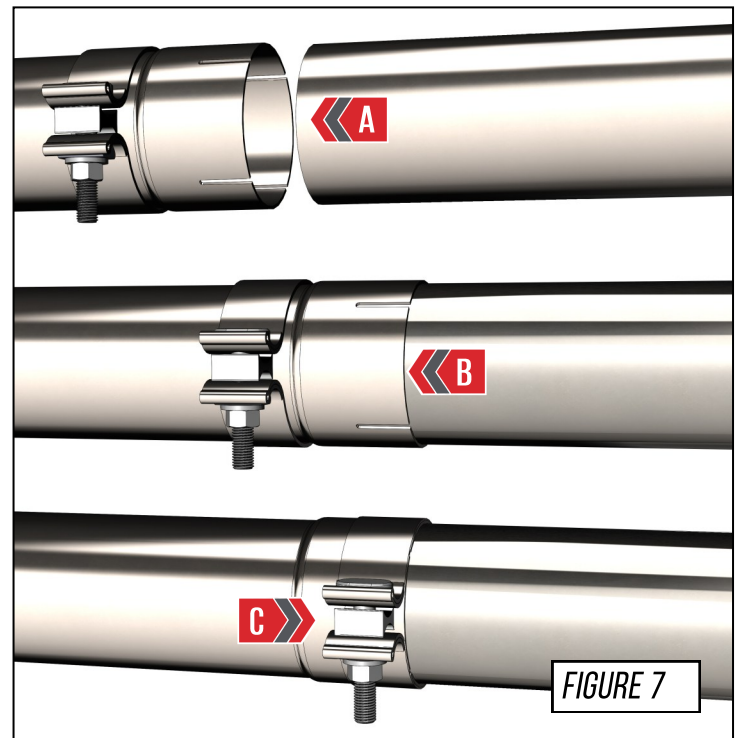
Arrow B shows the overlapping pipe installed correctly over the corresponding pipe.

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



STEP 8

Install the coupler (**KG**), using the supplied clamp, as shown in **Figure 8**.

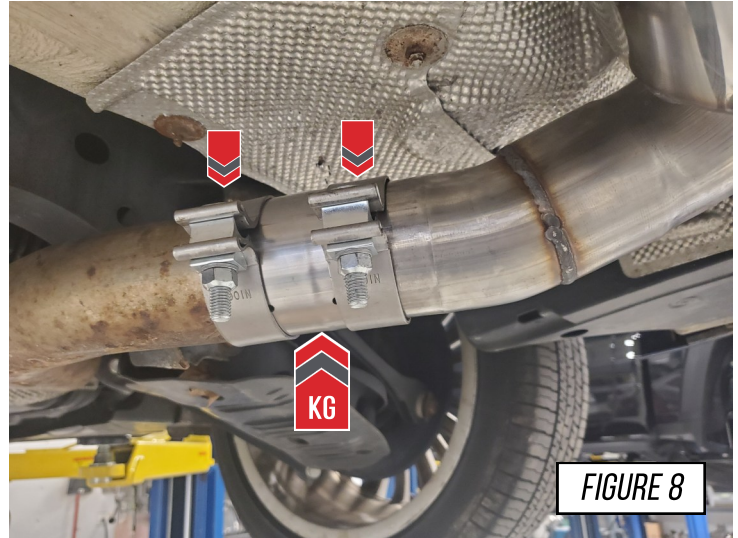


FIGURE 8

STEP 9

Install the assembled rear muffler section into the vehicle, as shown in **Figure 9**.

Use a supplied clamp at Arrow (**A**) and the 2 OE hangers and hardware at Arrow (**B**).

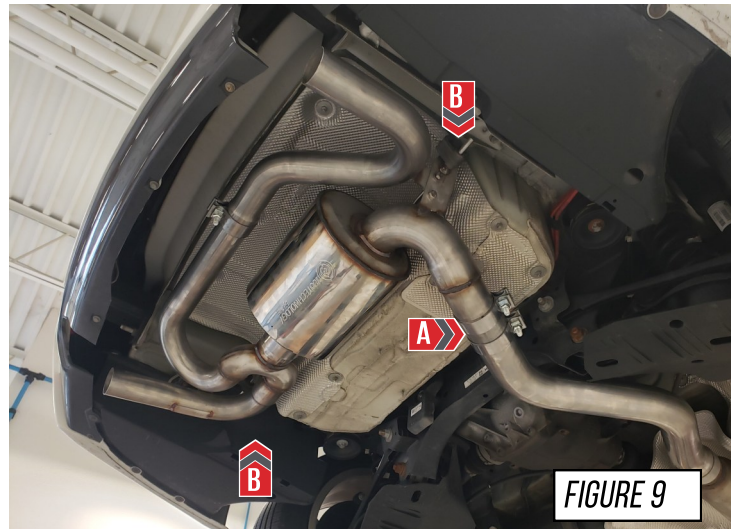


FIGURE 9

STEP 10

Working for the front of the vehicle to the rear, check for proper alignment and tighten each clamp, to at least 60ft/lbs.

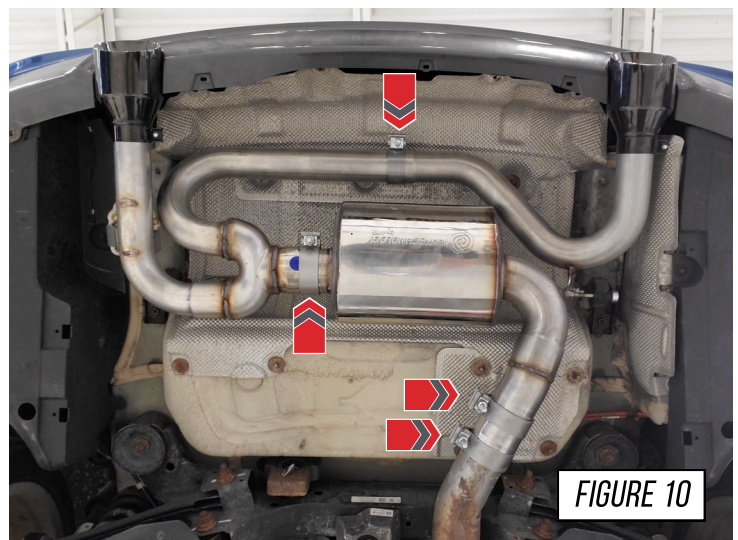
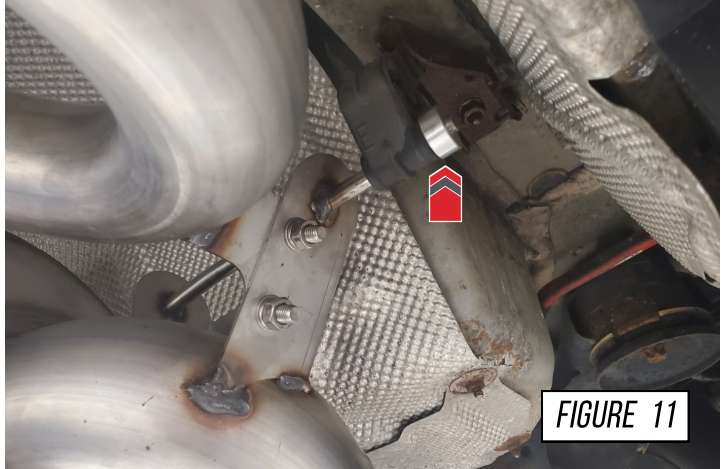


FIGURE 10

STEP 11

Once the exhaust system is properly adjusted, install a hanger post clamp on each of the rear muffler hanger posts, as shown in **Figure 15**.

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



STEP 12

Plug the OE harness into the valve motor, shown in **Figure 12**.



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.
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 **180 Technology**® 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
[SUPPORT FORM](#)

WARRANTY

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