

INSTALLATION GUIDE:
THE AWE S-FLO INTAKE FOR THE BMW G8X M4 M3 M2

For up-to-date fitment information, please visit the AWE website.

THIS GUIDE IS INTENDED FOR THE FOLLOWING PART NUMBERS:

2660-15589 AWE S-FLO CARBON INTAKE FOR G8X M4/M3/M2

Welcome to the AWE family, and congratulations on your purchase of the AWE Intake for the BMW G8X.

Exquisite build quality and craftsmanship, coupled with industry leading performance, distinguish this intake 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.

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PARTS LIST (G8X INTAKE) 1 OF 2

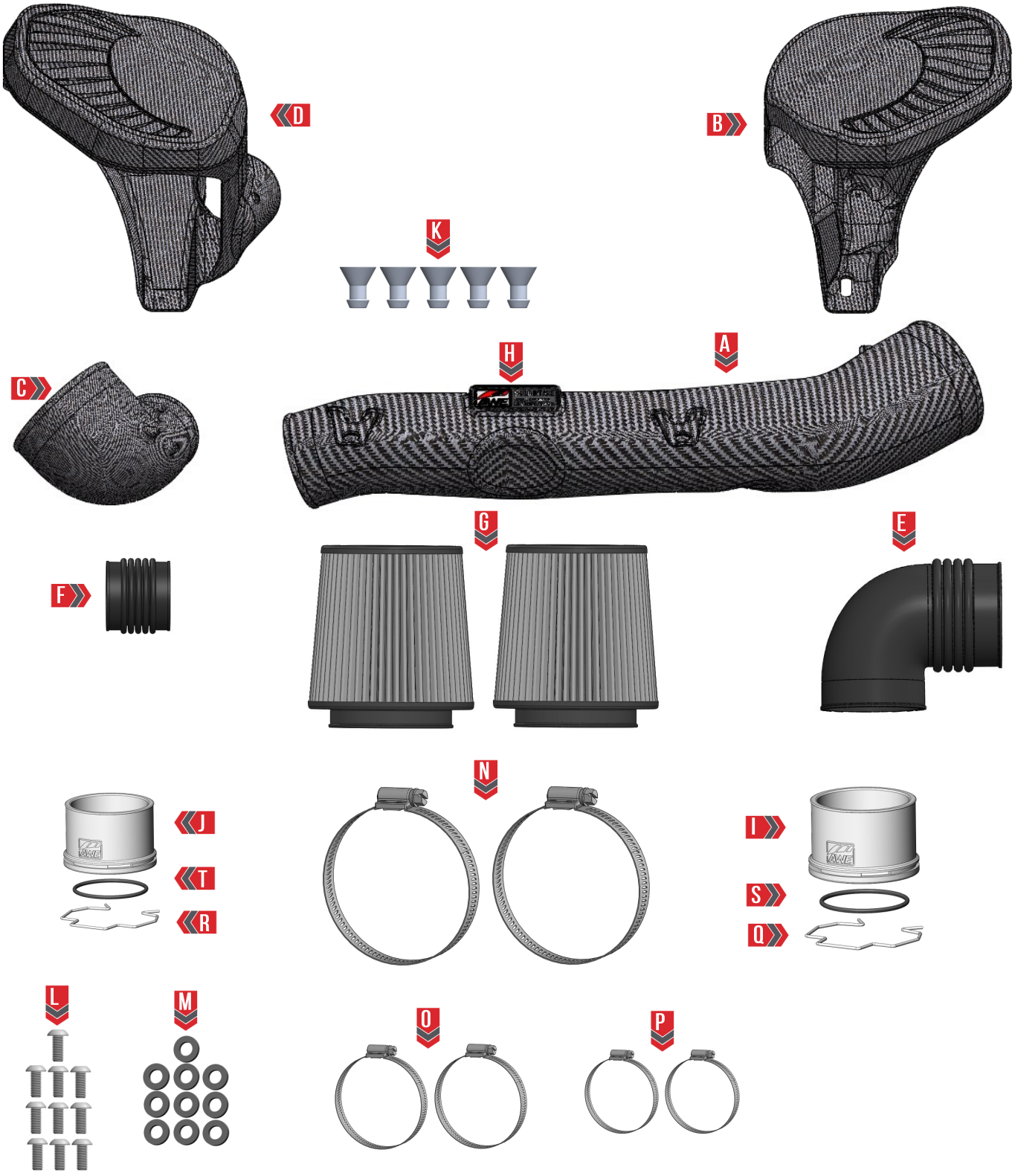
Inspect **ALL** parts prior to disassembly of vehicle; If damaged **or MISSING**, please contact the place of purchase immediately.

Symbol	Part Number	Description	QTY
A	500037	G8X_Driver_Carbon_Tube	1
B	500038	G8X_Driver_Carbon_Box	1
C	500039	G8X_Passanger_Carbon_Tube	1
D	500040	G8X_Passanger_Carbon_Box	1
E	300013	G8X_DS_Silicone_Coupler	1
F	300001	FLEX COUPLER - SILICONE, NON-REINFORCED	1
G	400013	Inverted_Cone_4.5in_Inlet	2
H	SFB001	S-FLO Intake Serial Tag	1
I	150011	G8X_Driver_Machined_Coupler	1
J	150012	G8X_Passanger_Machined_Coupler	1
K	200005	A90_Intake_Mount_Post	5
L	94500A231	Carbon tube bolts	10
M	93475A240	Metric DIN 125 18-8 SS Flat Washer M5	10
N	5574K26	110-130 WORM DRIVE CLAMP	2
O	54155K41	80-100 WORM DRIVE CLAMP	2
P	54155K25	Worm-Drive Clamps for Firm Hose and Tube with 305 Stainless Steel Screw, 1/2" Wide Band, 2-13/16"-3-3/4" Clamp ID	2
Q	120045	G8X_DS_Clip	1
R	120046	G8X_PS_Clip	1
S	9452K162	Oil-Resistant Buna-N O-Ring, 1/8 Fractional Width, Dash Number 233	1
T	9452K69	Oil-Resistant Buna-N O-Ring, 1/8 Fractional Width, Dash Number 230	1

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PARTS LIST (G8X INTAKE) 2 OF 2

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



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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 chassis braces, depending the model you may have 1 or 2 braces, as shown at arrows (**A**) and (**B**).

Some models will have the OE hardware covered by weather stripping, you will need to remove the OE push pins, as shown at arrow (**C**). This will provide you access to the OE brace hardware, as shown in arrow (**D**).

Note: All of the OE hardware will be reused with your AWE intake.

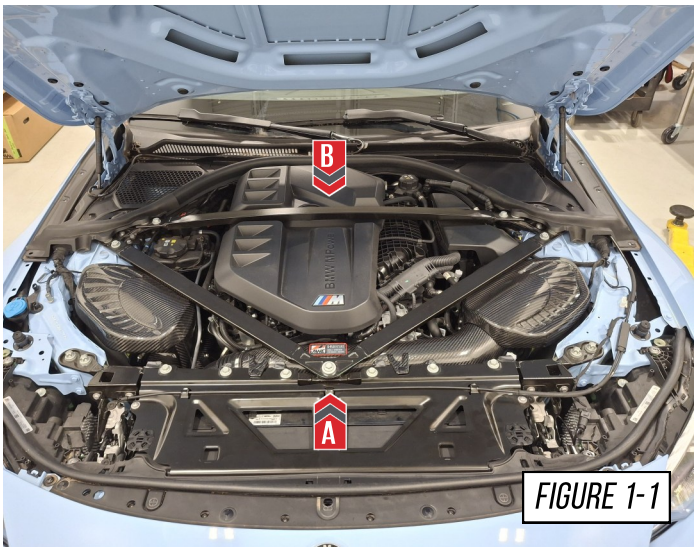


FIGURE 1-1

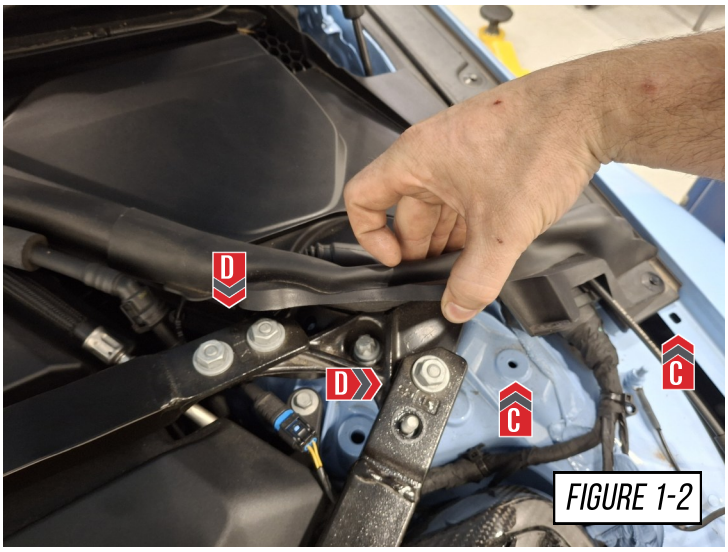
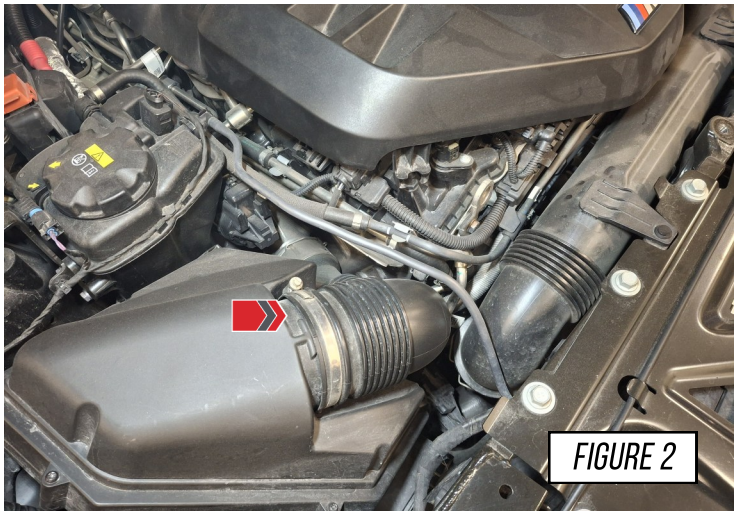


FIGURE 1-2

STEP 2

Losen the OE hose clamp on the passenger side airbox, shown in **Figure 2**, then pull the tube off the airbox.

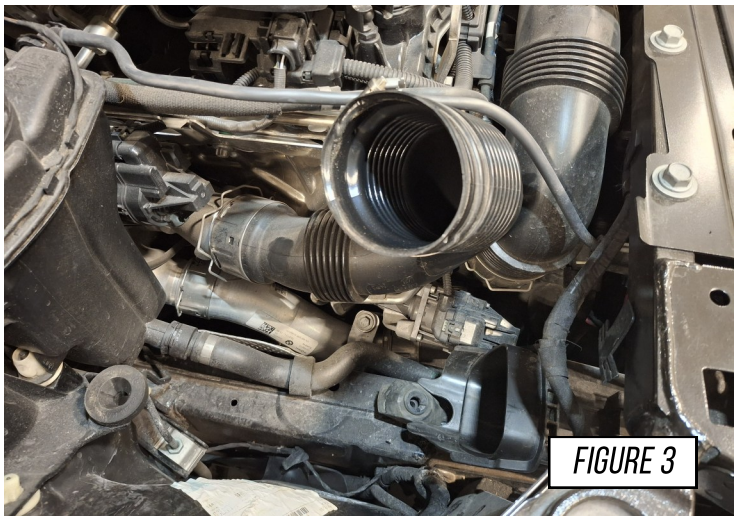

FIGURE 2

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STEP 3

Remove the passenger side airbox by pulling straight up off the OE rubber mounting posts, as shown in **Figure 3**.

Note: The OE rubber mounts will be reused.


FIGURE 3

STEP 4

Remove the OE passenger side tube by pulling to OE locking tab outward, shown at arrow (**A)** in **Figure 4-1.**

Then pull the OE tube (**B**) off the machined turbo inlet, as shown in **Figure 4-2**.

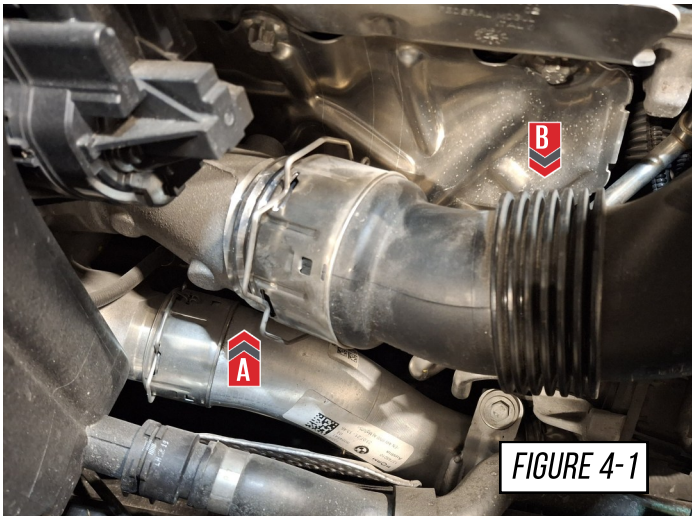
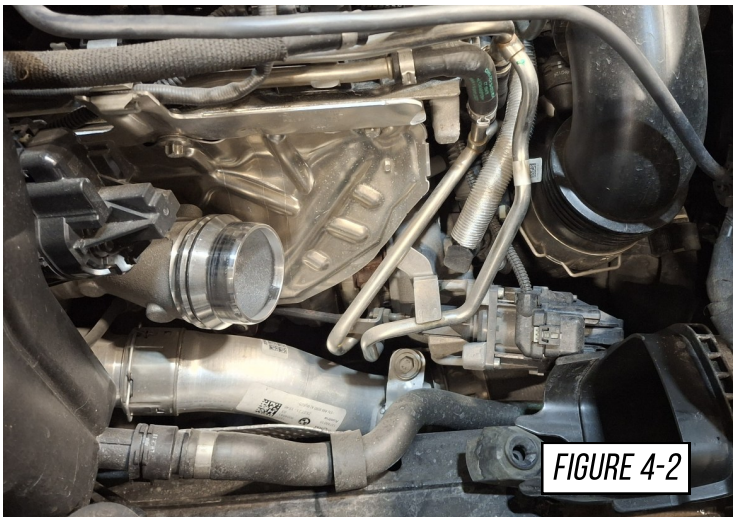


FIGURE 4-1


FIGURE 4-2

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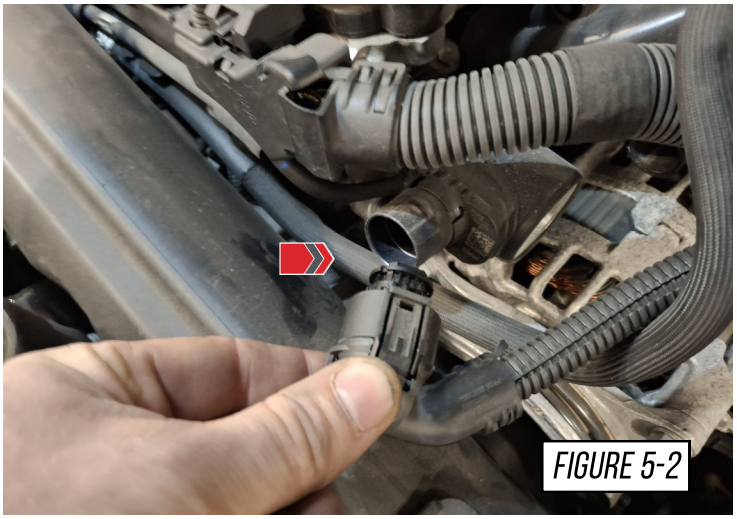
STEP 5

Remove the OE engine cover by pulling straight up, shown at arrow (**A)** in **Figure 5-1.**

Then locate the OE fitting at arrow (**B)** under the engine cover. Squeeze the tabs on the fitting and pulling the fitting out, as shown in **Figure 5-2**.



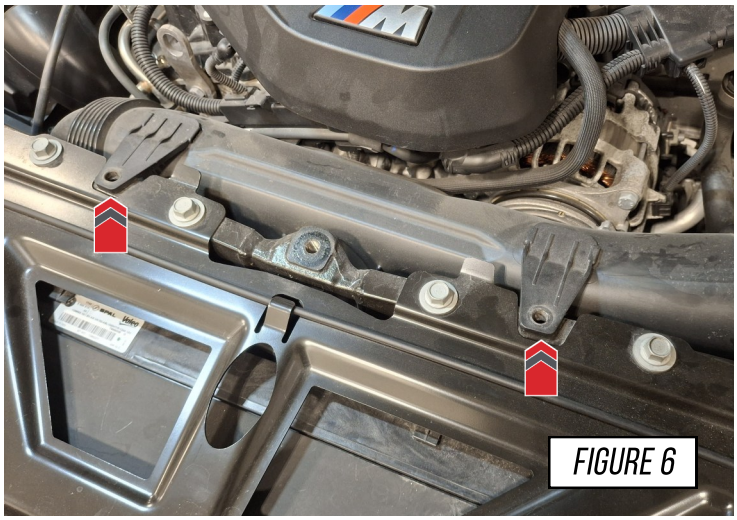
FIGURE 5-1


FIGURE 5-2

STEP 6

Remove the 2 OE plastic push rivets on the driver side tube, as shown in **Figure 6**.

Note: The OE hardware will be reused with your AWE intake.


FIGURE 6

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STEP 7

Losen the OE hose clamp on the driver side airbox, as shown in **Figure 7**.

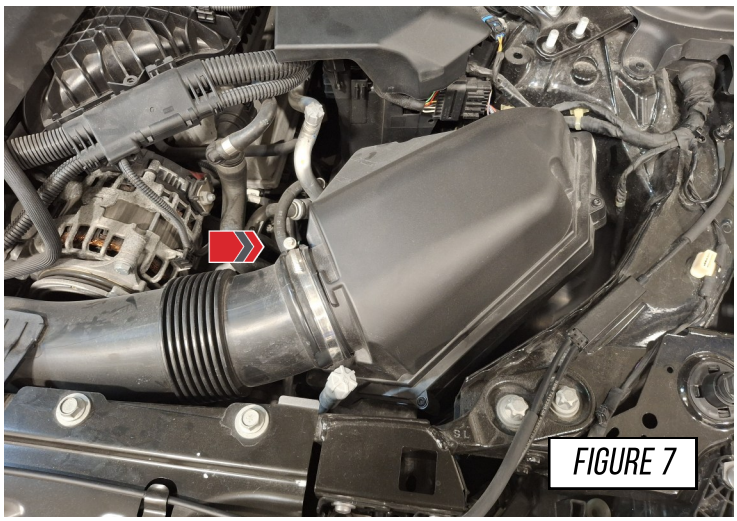


FIGURE 7

STEP 8

Remove the driver side airbox by pulling straight up off the OE rubber mounting posts, as shown in **Figure 8**.

Note: The OE rubber mounts will be reused.

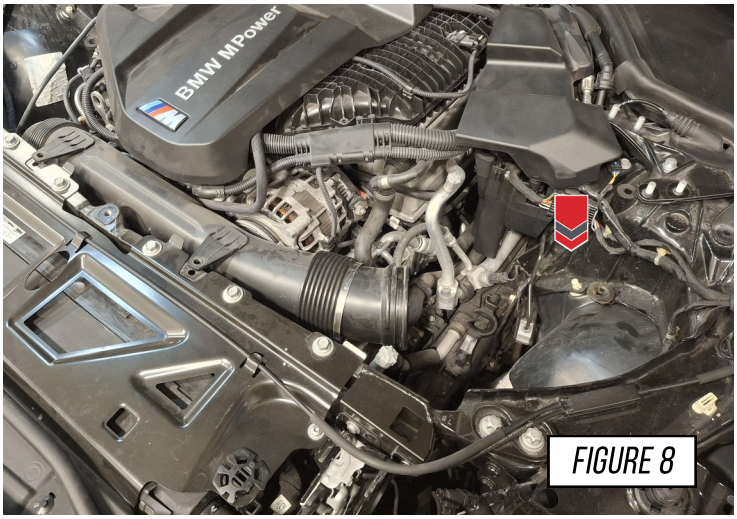


FIGURE 8

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STEP 9

Remove the OE driver side inlet tube (**A**) by pulling to OE locking tab outward, shown at arrow (**B)** in **Figure 9-1.**

Then pull the OE tube off the machined turbo inlet, as shown in **Figure 9-2**.

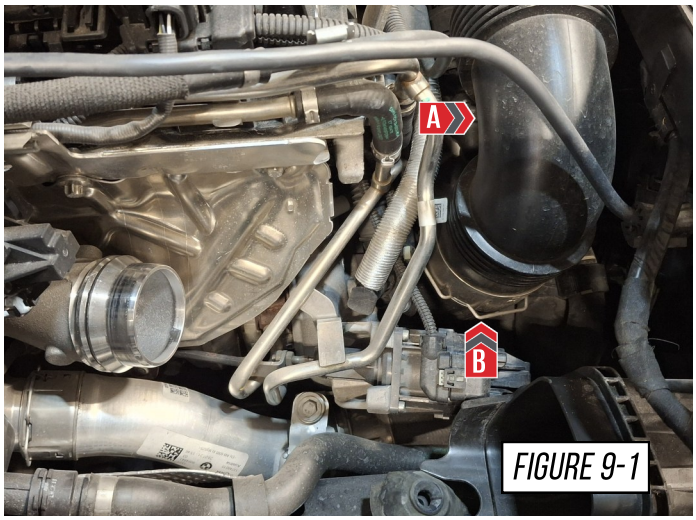


FIGURE 9-1

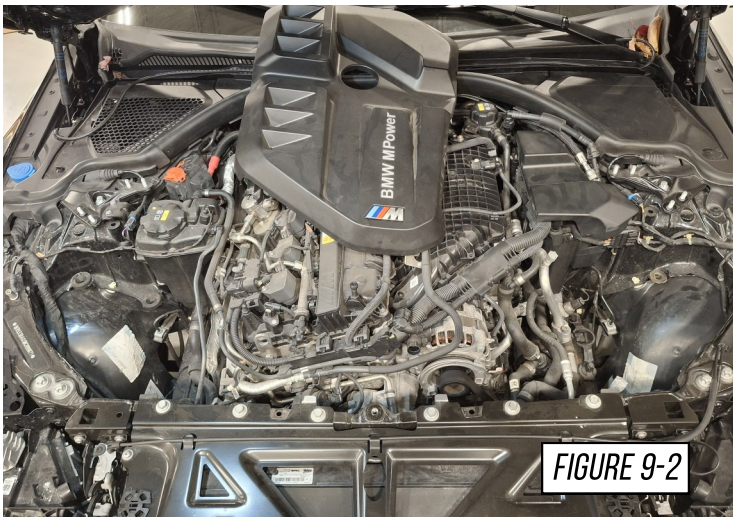
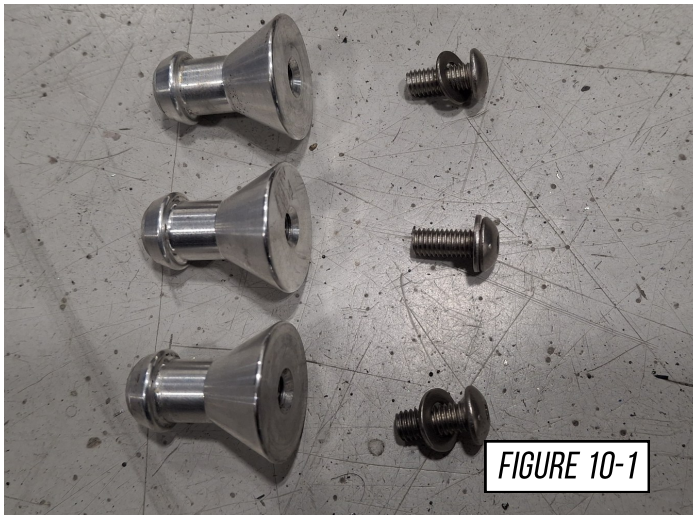


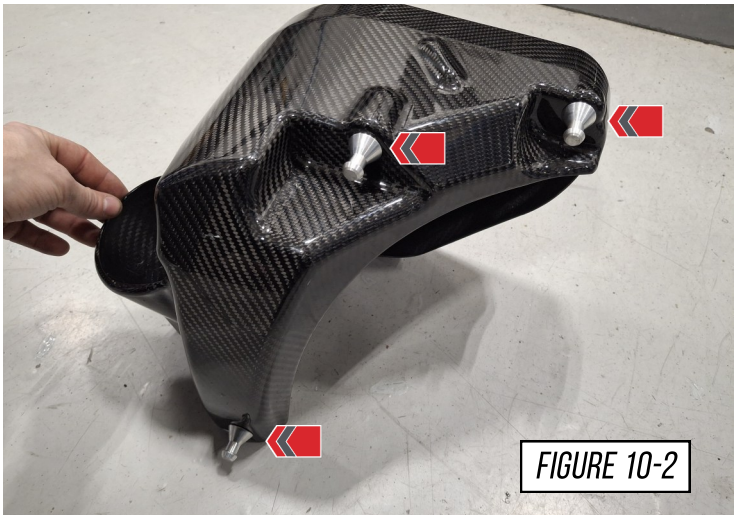
FIGURE 9-2

STEP 10

Gather the 3 AWE mounting posts, washers, and M5 bolts, as shown in **Figure 10-1.**

Gather your passenger side AWE airbox (**500040**) and install the 3 mounting posts, as shown in **Figure 10-2**.


FIGURE 10-1


FIGURE 10-2

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STEP 11

Gather your AWE tube (**500039**), silicone (**300001**), filter (**400013**), 110-130MM worm clamp, and 2-13/16"-3-3/4" worm clamp.

Assemble the parts, as shown in **Figure 11**.

Fully tighten the 2 worm clamps at this time.

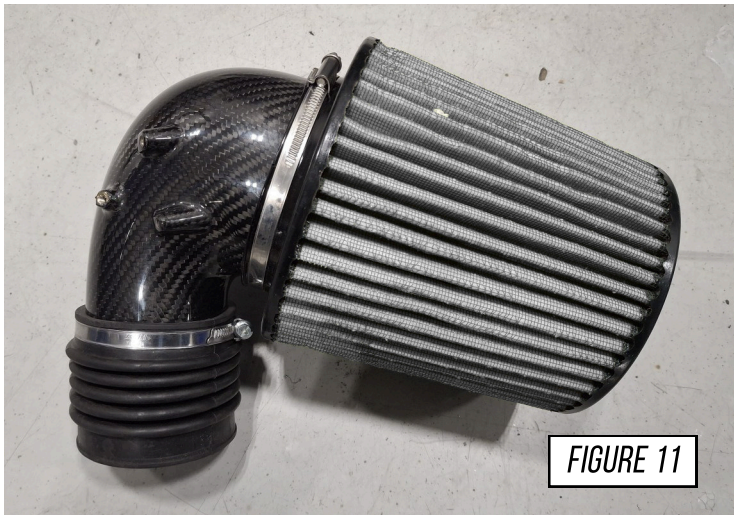


FIGURE 11

STEP 12

Gather your AWE box (**500040**), the tube and filter assembled in **Step 11**, 2-13/16"-3-3/4" worm clamp, 3 carbon bolts, and 3 washers.

Insert the tube into the box, using the 3 bolts and washers, attach the 2 parts together, shown at arrow (**A**), as shown in **Figure 12**.

Slide the 2-13/16"-3-3/4" worm clamp over the end of the silicone, shown at arrow (**B**).

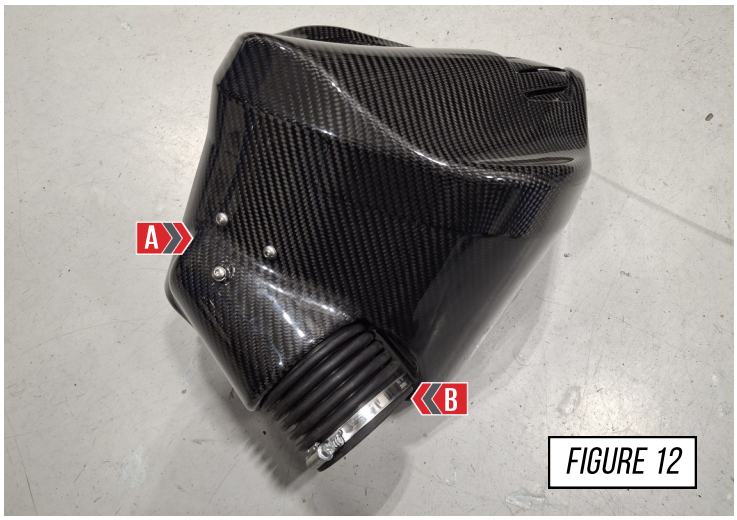


FIGURE 12

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STEP 13

Next gather the passenger side machined coupler (**150012**), the supplied O ring and the spring clip (**120046**).

Lay them out side by side, the driver side is larger shown at arrow (**A**) and the passenger side is smaller shown at arrow (**B**), as shown in **Figure 13-1**.

Install the O-ring into the machined coupler, arrow (**C**), and the spring clip, arrow (**D**), as shown in **Figure 13-2.**

Note: If installed on the incorrect side, coupler will not install correctly.

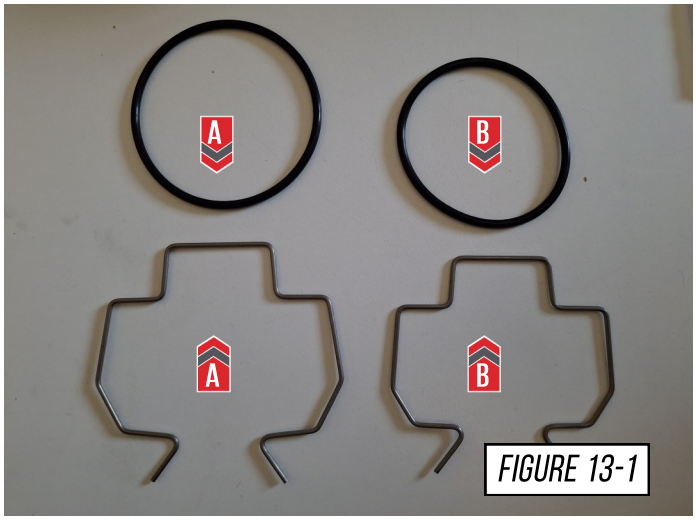


FIGURE 13-1

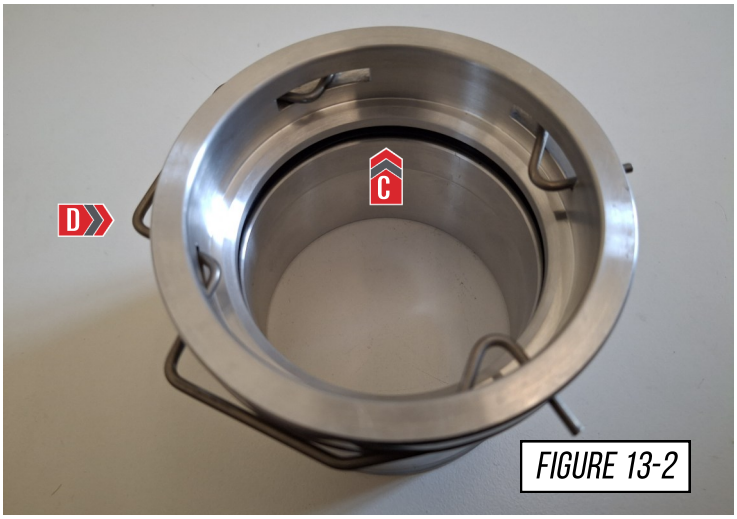


FIGURE 13-2

STEP 14

Gather your AWE passenger side box (500040), assembled in **Step 12**.

Attach the machined coupler to the silicone with the 2-13/16"-3-3/4" worm clamp, shown at arrow (**A**).

Rotate the machined coupler so the locking tabs are at the same angle shown at arrow (**B**) in **Figure 14**.

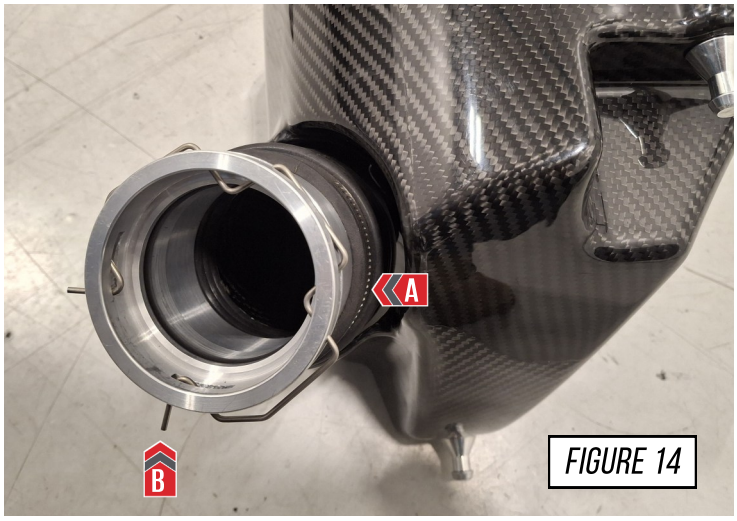


FIGURE 14

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STEP 15

Install your AWE passenger side air box assembly (**A**), as shown in **Figure 15-1**.

This is done by first aligning the machined coupler (**B**) with the OE inlet, as shown in **Figure 15-2.**

If the coupler will not connect, the AWE spring clip (**C**) may be touching the OE heat shield (**D**), if so rotate the machined coupler till it will press into place, as shown in **Figure 15-2.**

With the machined coupler attached, now push your AWE box down onto the 3 OE rubber mounts.

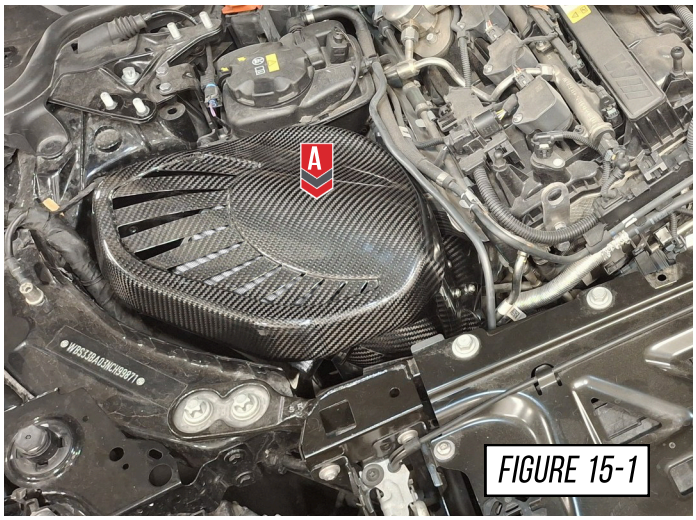


FIGURE 15-1

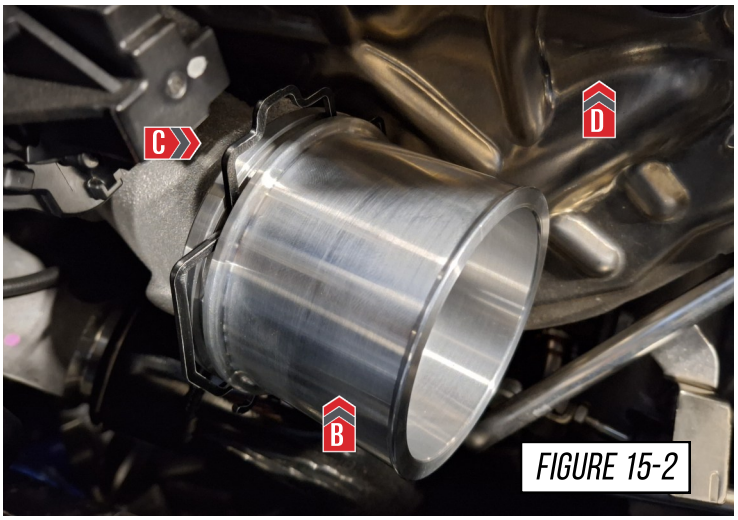


FIGURE 15-2

STEP 16

Next gather the driver side machined coupler (**150011**), the supplied O ring and the spring clip (**120045**).

You will have only 1 spring clip and 1 O-ring after completing Step 13, the larger set for the driver side (**A**), as shown in **Figure 16-1**.

Install the O-ring into the machined coupler, arrow (**C**), and the spring clip, arrow (**D**), as shown in **Figure 16-2.**

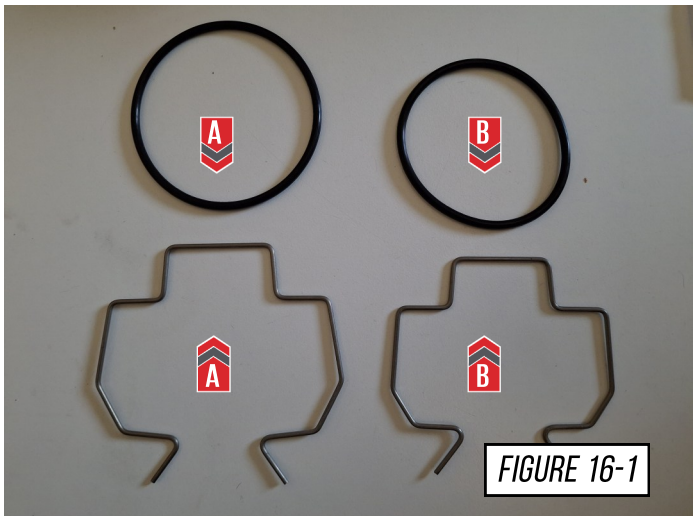


FIGURE 16-1

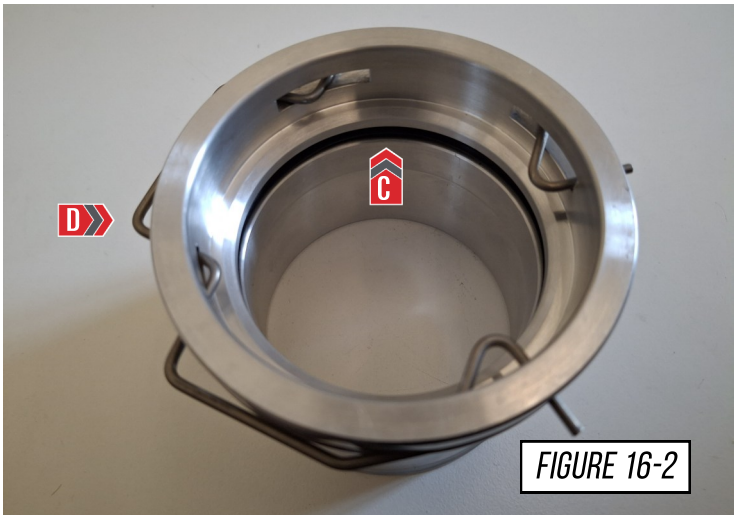


FIGURE 16-2

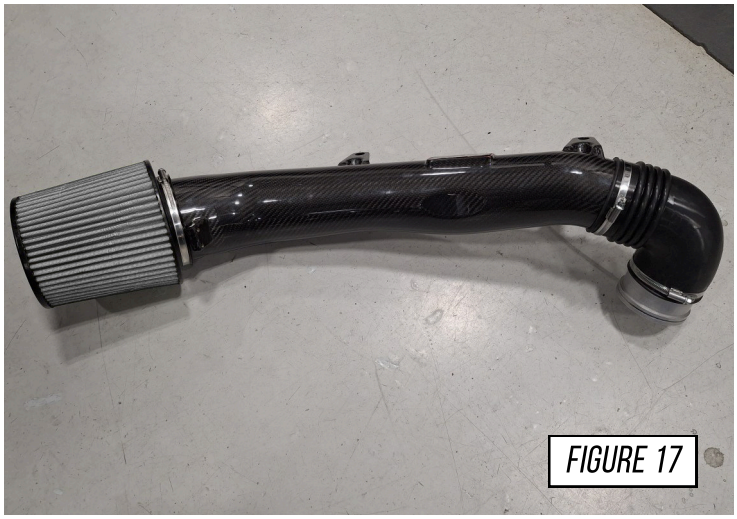
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STEP 17

Gather your AWE tube (**500037**), silicone (**300013**), filter (**400013**), 110-130MM worm clamp, the two 80-100MM worm clamps, and the machined coupler (**150011**).

Assemble the parts, as shown in **Figure 17**.

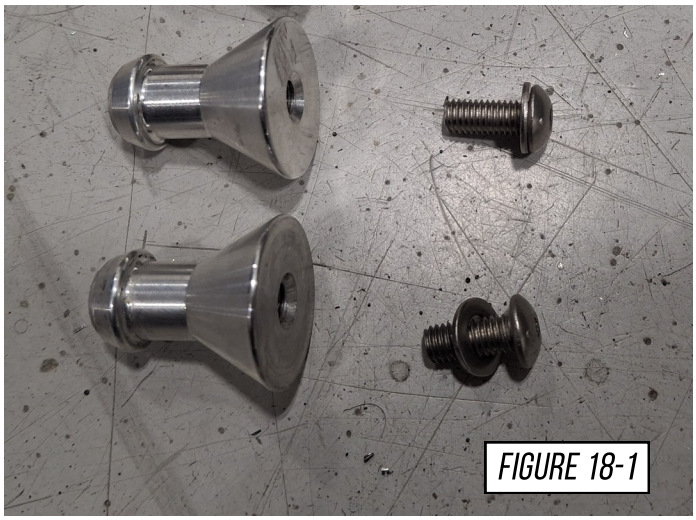
Fully tighten the 3 worm clamps at this time.

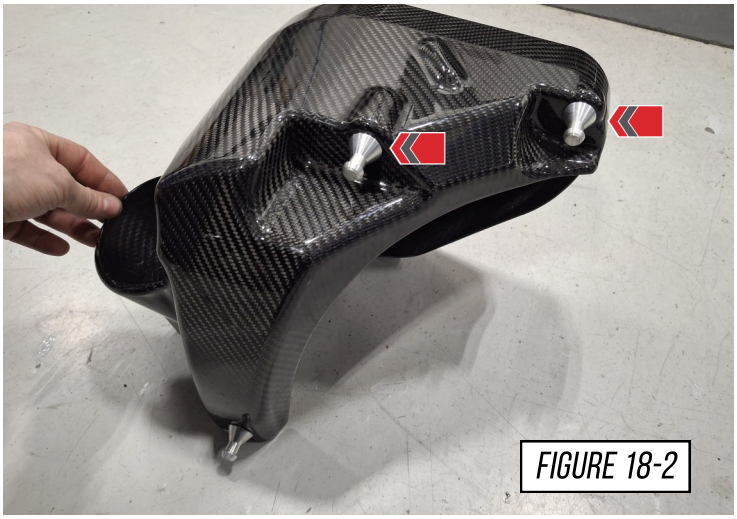

FIGURE 17

STEP 18

Gather the 2 AWE mounting posts, washers, and M5 bolts, as shown in **Figure 18-1.**

Gather your driver side AWE airbox (**500038**) and install the 2 mounting posts with hardware, as shown in **Figure 18-2**.


FIGURE 18-1


FIGURE 18-2

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STEP 19

Install your driver side tube (**A**) and air box (**B**) by carefully lowering the tube into place. The clearance between the engine and tube is tight but will fit, as shown in **Figure 19**.

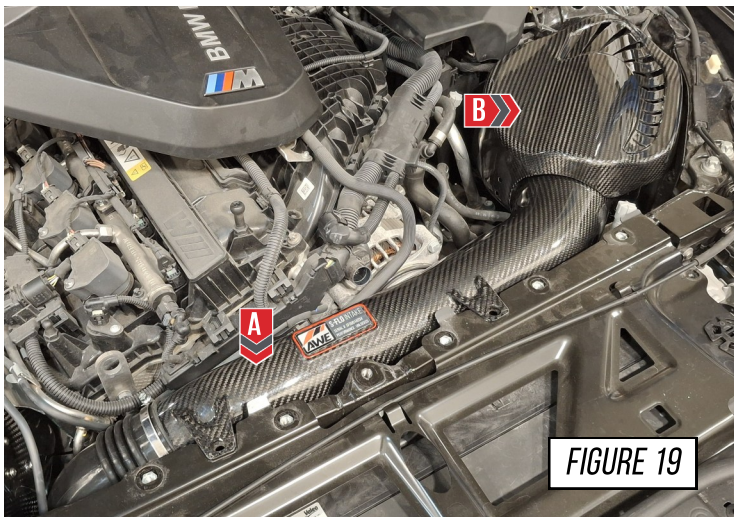


FIGURE 19

STEP 20

Gather the 2 washers, and M5 bolts, to secure the box and tube together, as shown in **Figure 20-1.**

Align the tube and box, insert the hardware, and fully tighten, as shown in **Figure 20-2**.

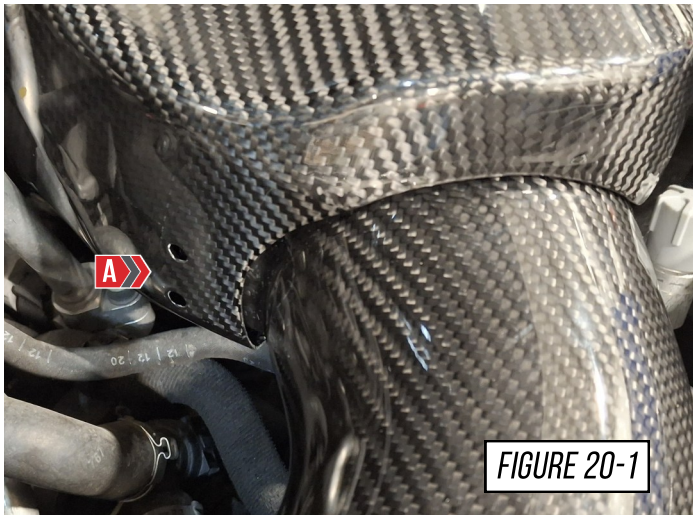


FIGURE 20-1

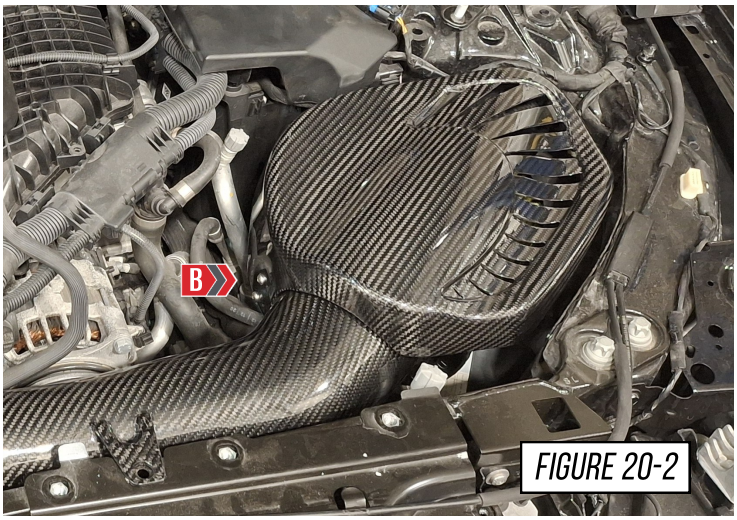


FIGURE 20-2

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STEP 21

Ensure the driver side machined coupler is connected to the OE inlet (**A**), as shown in **Figure 21-1**.

If the coupler will not connect, check that your AWE spring clip (**C**) is not touching anything, if so rotate the machined coupler till it will press into place, as shown in **Figure 21-2.**

With the machined coupler attached, now push your AWE box down onto the 2 OE rubber mounts.

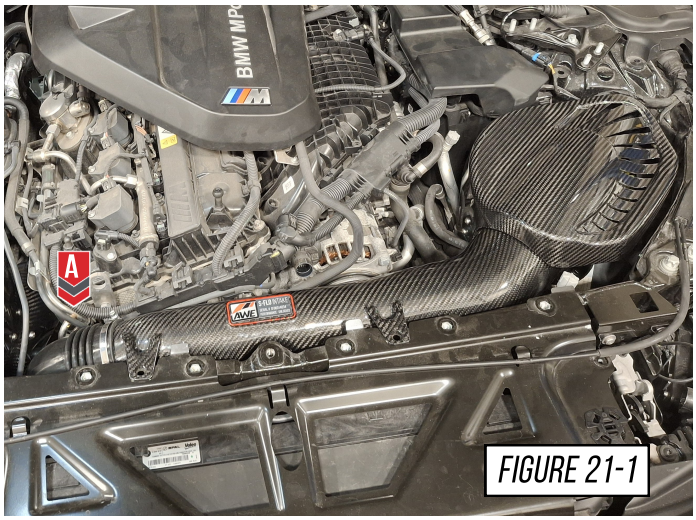


FIGURE 21-1

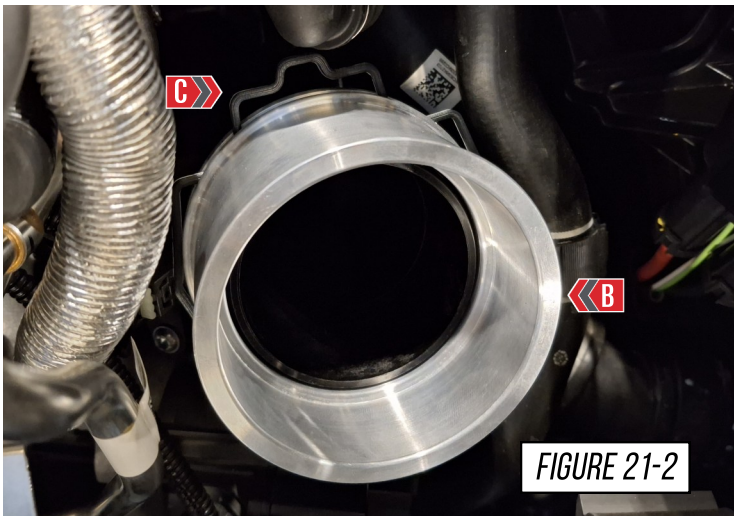
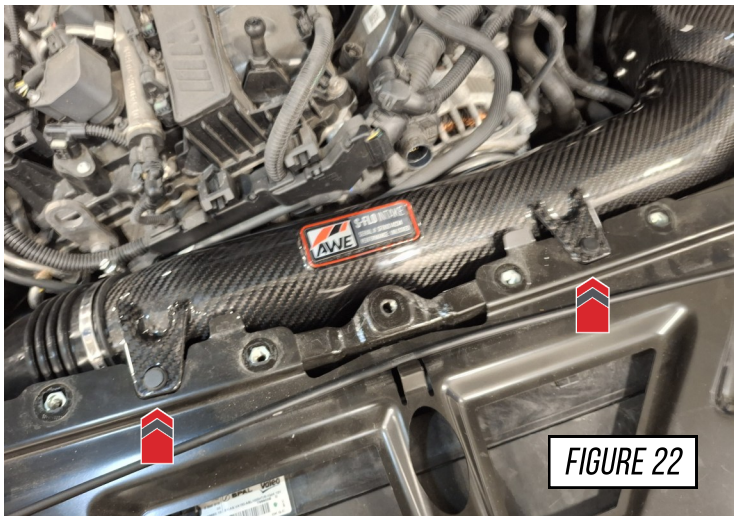


FIGURE 21-2

STEP 22

Reinstall the 2 OE plastic push rivets, removed in **Step 6,** on your driver side tube, as shown in **Figure 22**.


FIGURE 22

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STEP 23

Locate the OE fitting at arrow, unplugged in **Step 5**, under the engine cover, shown at arrow (**A)** in **Figure 23-1.**

Reconnect the OE fitting (**B**) by pushing the back together, as shown in **Figure 23-2**.

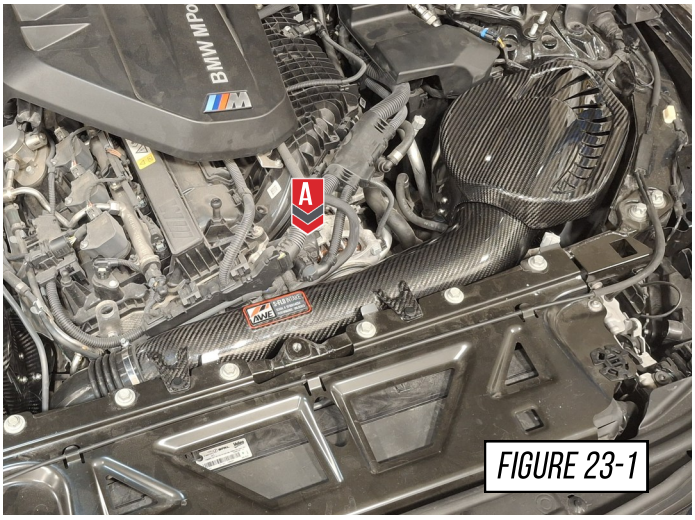


FIGURE 23-1

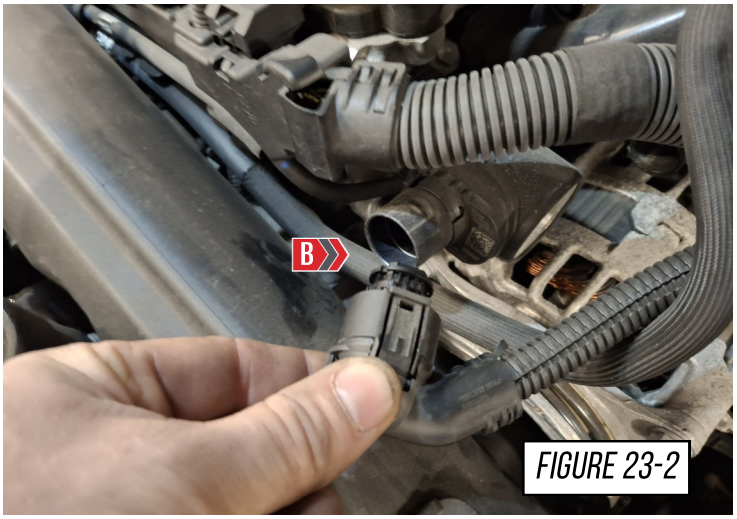


FIGURE 23-2

STEP 24

Reinstall the OE engine cover, removed in **Step 5,** by pushing down onto the OE mounts, as shown in **Figure 24**.

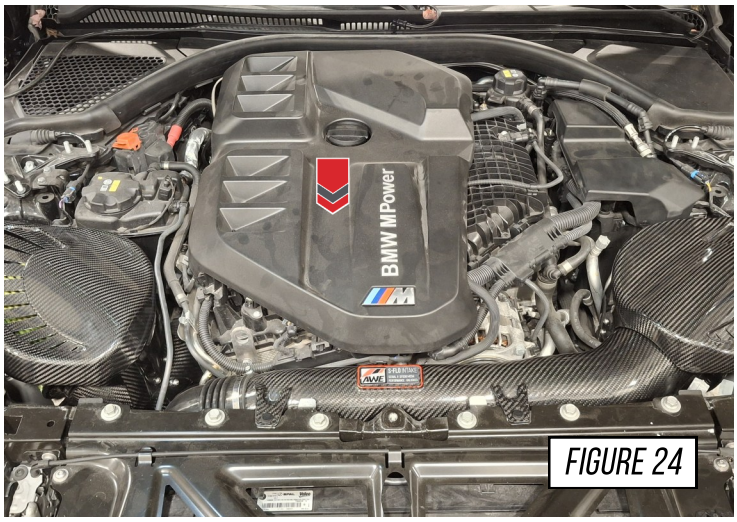


FIGURE 24

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STEP 25

Reinstall the OE chassis braces removed in **Step 1**, depending the model you may have 1 or 2 braces, as shown at arrows (**A**) and (**B**).

Depending the model will need to reinstall the OE hardware covered by weather stripping, shown at arrow (D), than you will need to reinstall the OE push pins, as shown at arrow (**C**).

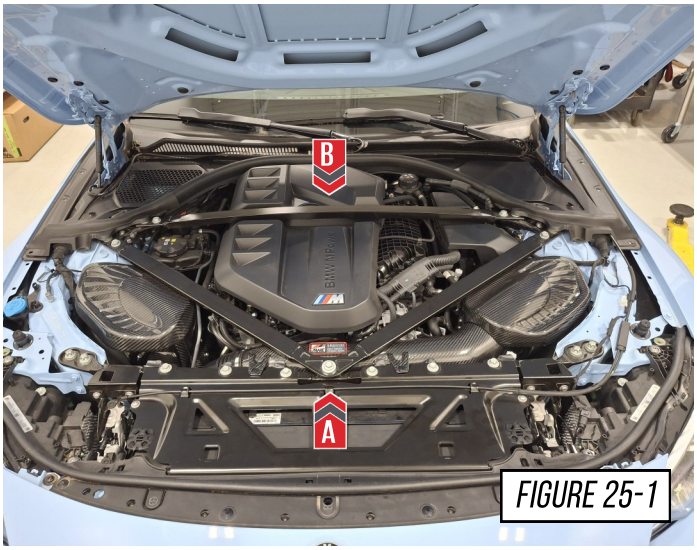


FIGURE 25-1

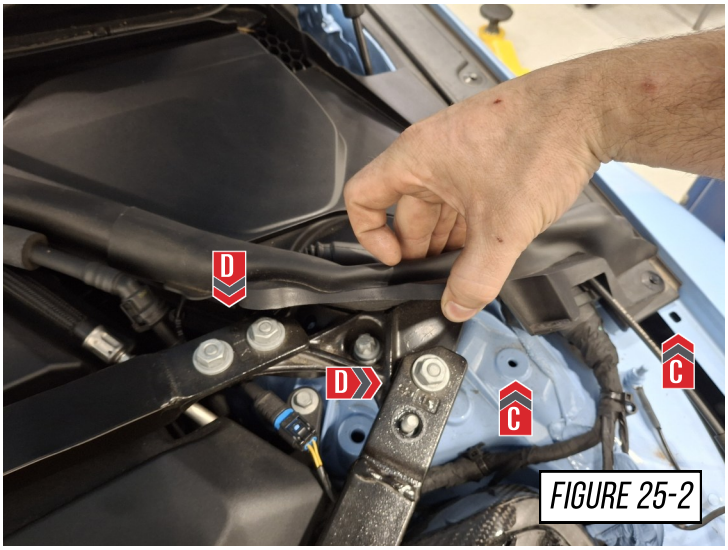


FIGURE 25-2

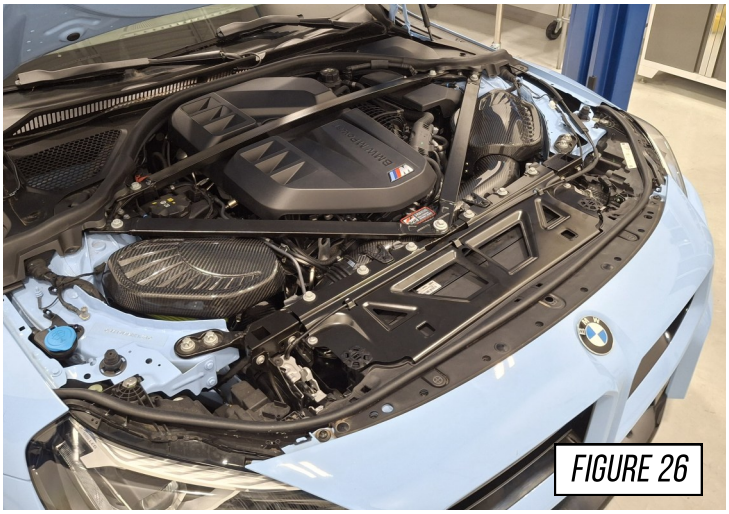
STEP 26

With your complete AWE intake system installed. It is now recommended to drive the car to ensure the intake is functioning as intended.

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

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

Don't forget to look below for any troubleshooting needs!


FIGURE 26

ENJOY!

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TROUBLESHOOTING

Issue	Solution
Check engine light	Make sure all hoses are reinstalled and are all secure.
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

This is a re-usable air filter that can be cleaned when dirty and put back into service. Please inspect the air filter element every 25,000 miles for integrity. Clean every 50,000 miles under normal operating conditions, sooner in dusty conditions.

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

AWE
CONTACT FORM

WARRANTY

Up-to-date warranty information is found **HERE**.

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