



INSTALLATION GUIDE

2012+ F30 320i, 328i
2014+ F22 228i
Carbon Fiber S-FLO Intake
FOR RACING USE ONLY

Congratulations on your purchase of the AWE Tuning Carbon Fiber S-FLO Intake for the 2012+ BMW F30 320i and 328i and 2014+ F22 228i.

Exquisite build quality and superior performance distinguishes this

PARTS LIST

- 1 Carbon fiber lid
- 1 Carbon fiber box
- 1 Carbon fiber tube
- 1 Cone filter and clamp
- 8 M5 x 20mm button head bolts
- 2 M4 x 17mm allen head bolts
- 1 Foam gasket
- 1 Black barbed fitting (for N26 engine only)

Required Tools

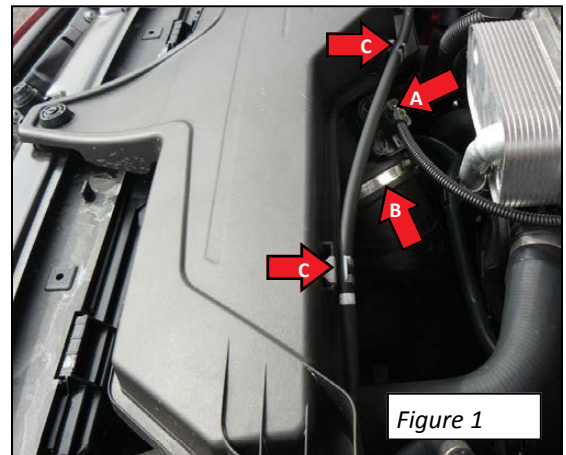
- T-20 torx bit
- Flat head screwdriver
- 3mm hex bit
- #27 drill bit
- 1/8" pipe tap
- Razor blade

Step 1

Unclip the MAF sensor wire, at **Arrow A** in **Figure 1**.

Loosen the hose clamp at **Arrow B** in **Figure 1**.

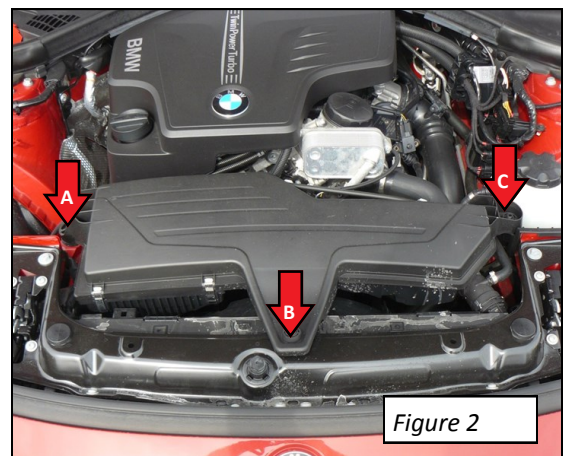
Remove the hood cable from the clips on the back of the intake at **Arrows C** in **Figure 1**.



Step 2

Remove the factory intake by pulling up at the three mounting points, at the **Arrows A, B, and C** in **Figure 2**.

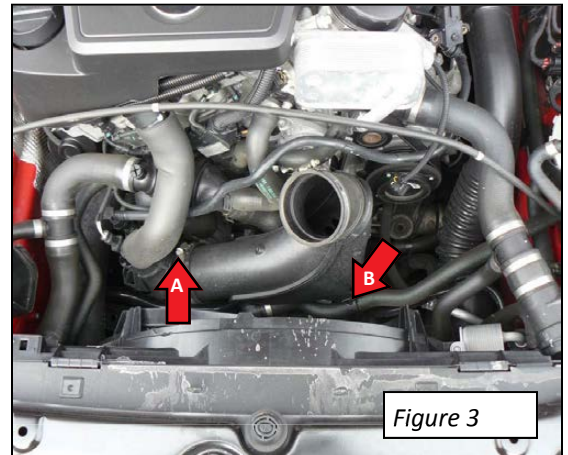
Remove the two rubber grommets from the factory intake at the **Arrows B and C** in **Figure 2**.



Step 3

Remove the lower hose by loosening the hose clamp at the **Arrow A** in **Figure 3**.

Open clip at **Arrow B** in **Figure 3** to free the hose.

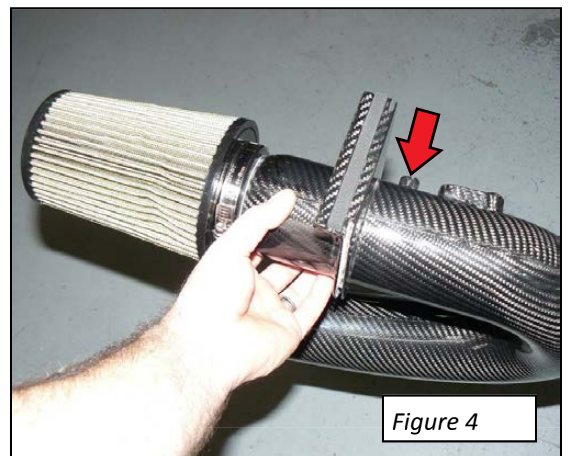


Step 4

For N26 Engine Code Vehicles Only:

Use a #27 drill and drill a hole in the center of the carbon boss shown at the red arrow.

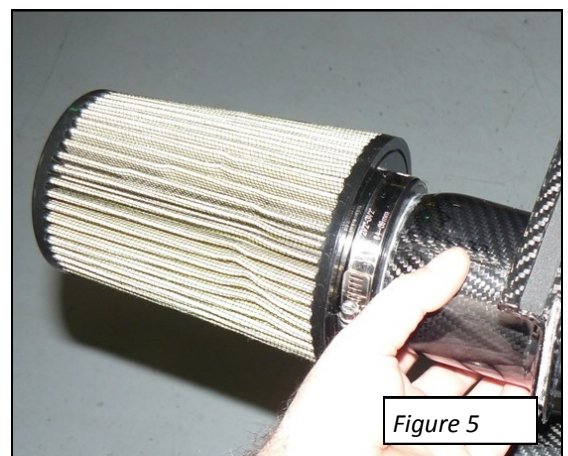
Using a 1/8" pipe tap, tap the drilled hole. Screw the supplied barb fitting into the tapped hole.



Step 5

For All Vehicles:

Install the supplied filter onto the carbon tube using the supplied hose clamp. Make sure the screw is facing up toward the groove in the flange, as shown in **Figure 5**. This will allow for easy access when servicing the filter in the car.



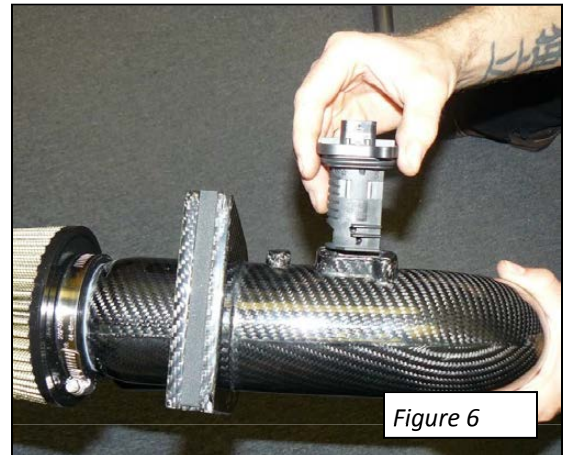
Step 6

Remove the factory MAF sensor by removing the two T-20 screws on the factory airbox.

Install the factory MAF sensor into the AWE Tuning carbon tube.

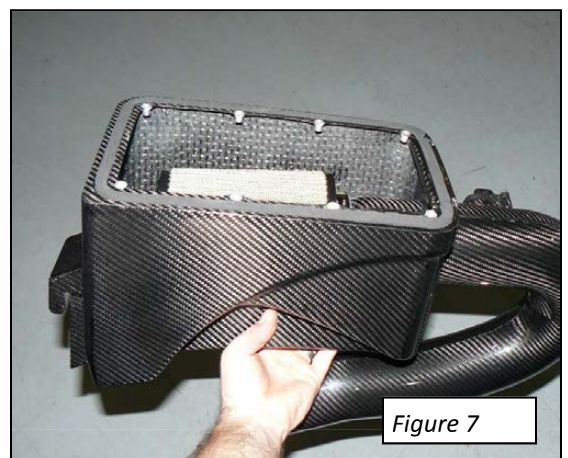
Ensure the tapered side of the MAF sensor faces the filter, as shown in Figure 6.

Make sure the gasket on the MAF sensor is fully seated in the carbon tube, then tighten down with the two supplied 3mm hex head bolts with a 3mm hex key.



Step 7

Install the carbon tube onto the carbon airbox as shown in **Figure 7**. Make sure the groove in the carbon tube flange fits over the U-shaped cutout in the carbon airbox. Rotate the tube slightly if needed to get it to sit properly.



Step 8

Install the tube and airbox assembly into the car.

Slide the end of the carbon tube into the factory rubber turbo inlet hose.

Make sure the carbon tube is fully seated in the hose and use a long flat head screwdriver to tighten down the factory hose clamp.



Step 9

Make sure the inlet flange of the airbox is locked into the factory duct by the headlight, as shown in **Figure 9**.

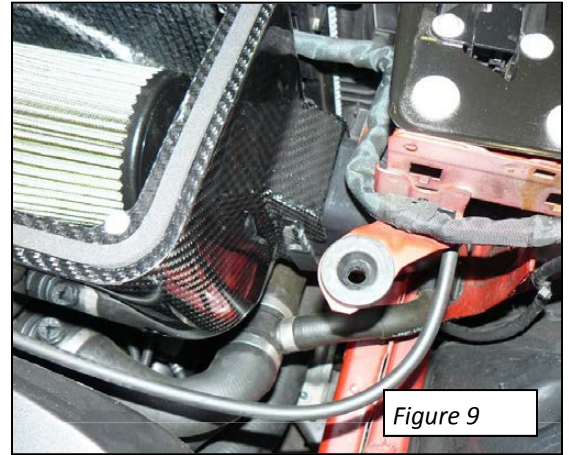


Figure 9

Step 10

Install the provided foam gasket into the carbon airbox groove as shown in **Figure 10**. Peel back an edge of the backing material and lay the exposed end at **Arrow A** in **Figure 10**. Then remove the rest of the paper backing while laying the gasket down around the box. Make sure the gasket is fully seated in the groove. At **Arrow B**, with a razor blade, cut the foam gasket flush with the edge of the flange.

Place the remaining foam gasket into the groove on top of the carbon tube flange.

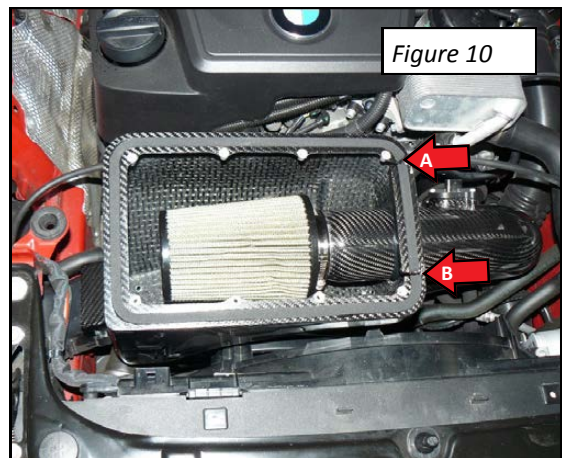


Figure 10

Step 11

Install into the carbon fiber lid the rubber grommets removed in **Step 2**.

With a 3mm hex, install the lid onto the carbon airbox using the eight supplied hex screws. Do not overtighten these bolts, just snug them tight. Over tightening can damage the carbon lid.

To fully seat the grommets, push the lid down at the three mounting points. Make sure the rubber grommet mounts look like **Figure 11** when fully installed.



Figure 11

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.

To service the filter, remove the eight lid hex screws, and remove the carbon lid off by pulling up at the three mounting points. Loosen the hose clamp remove the filter from the carbon airbox.

Clean every 50,000 miles under normal operating conditions, sooner in dusty conditions. Contact AWE Tuning to purchase a filter maintenance kit.

