



## INSTALLATION INSTRUCTIONS

**MAKE:** BMW  
**MODEL:** X5 M (F85) / X6 M (F86)  
**YEAR:** 2015 - 2018  
**ENGINE:** V8-4.4L (tt)

**Down-Pipes**  
48-36321-HC (Street)  
48-36321-HN (Race)



### RACE ONLY DISCLAIMER

This is a Race Only product that is to be used solely for competition, it cannot be used on vehicles that are operated on public streets, roads or highways. Its use is limited to closed-course and open-course racing that is formally sanctioned by a recognized racing organization. Any other use, including recreational off-road use, could be in violation of local, state and federal laws. A competition acknowledgement / liability release form must be filled out and submitted.

### Parts Included:

- Left Down-Pipe  
(P/N: 05-145488) Street  
(P/N: 05-145486) Race
- Right Down-Pipe  
(P/N: 05-145489) Street  
(P/N: 05-145487) Race

### Hardware Included:

- (P/N: 05-46018) Plug (x2)

**Caution:** aFe recommends professional installation on our products. Allow time for your vehicle to cool down prior to installation. When working on or under your vehicle proceed with caution. Exhaust systems reach high temperatures and may cause serious burns. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation.

- Step 1:** (Read Instructions prior to installation) Secure vehicle on jack stands (refer to your owner's manual for specified jack stand positions).
- Step 2:** Unplug the right and left exhaust valve motor connectors.
- Step 3:** Support the exhaust system.
- Step 4:** Loosen the two clamps securing the system to the downpipes.
- Step 5:** Remove the four bolts securing the front two rubber isolation mounting brackets to the vehicles chassis. Retain hardware for exhaust installation.
- Step 6:** Remove the four nuts securing the rear rubber isolation mounting brackets to the vehicles chassis. Retain hardware for exhaust installation.
- Step 7:** Remove the two rubber isolators from the exhaust system and remove the exhaust system from the vehicle.
- Step 8:** Remove the two bolts on the mounting bracket attached to the engine block bracket on both the right and left OE downpipes.
- Step 9:** Remove the two Allen screws on the left side bracket attached to the engine block using an Allen key.
- Step 10:** Now open the hood and remove the engine bay cover by lightly pulling up on the engine bay cover to release the snap in plugs.
- Step 11:** Remove the torx bolts from the center of the windshield wiper cowl, and the two plastic clips on both the left and right ends of the windshield wiper cowl. Note: The windshield wiper cowl removes in two pieces.
- Step 12:** Begin to mark the wires in the mounting component for the wiring harness above the downpipe heat shield and remove each wiring loom carefully by pulling up on the loom.
- Step 13:** Remove the four OE Allen bolts on each corner of the wiring loom mounting component and pull up carefully to remove.
- Step 14:** Locate each O2 sensor and disconnect each of them from their corresponding plugs.
- Step 15:** Label each O2 sensor and remove the two front O2 sensors.



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- Step 17:** Loosen the three torx bolts on the left side of the downpipe heatshield  $\frac{3}{4}$  of the way, and repeat this process on the right side of the downpipe heatshield to remove the heatshield
- Step 18:** Remove the two Allen bolts on the rear engine support brace on both the left and right OE downpipes.
- Step 19:** Remove the two Allen bolts on the side downpipe support bracket on both the left and right OE downpipes.
- Step 20:** Release the V-Band clamps on both the left and right OE downpipes and remove the OE downpipes.
- Step 21:** Install the aFe downpipes using the OE V-Band clamps, make finger tight at this time.
- Step 22:** Re-install the two OE Allen bolts on the rear engine support brace on both the left aFe downpipe.
- Step 23:** Re-install the left side bracket on to the engine block using the two OE Allen screws.
- Step 24:** Re-install the four OE nuts on both left and right aFe downpipes.
- Step 25:** Re-install the OE band clamp to the aFe down pipe & OE exhaust. Note: Do Not Tighten.
- Step 26:** Once aligned and you're satisfied, you may now tighten the exhaust system.
- Step 27:** Re-install the downpipe heatshield and fasten the three torx bolts on both sides of the downpipe heatshield.
- Step 28:** Re-install the two rear O2 sensors and snap on clips.
- Step 29:** Re-install the two front O2 sensors.
- Step 30:** Re-install the four OE Allen bolts on the four corners of the wiring loom mounting component.
- Step 31:** Place each wiring loom to their corresponding location by pushing gently into the grooves.
- Step 32:** Re-install the four O2 sensor plugs.
- Step 33:** Re-install the torx bolts and two clips on each end of the windshield wiper cowl.  
**NOTE: The windshield wiper cowl snaps into each other.**
- Step 34:** Re-install the engine bay cover by gently pushing into the snap in plugs.
- Step 35:** Double check your work and make sure everything is tight.
- Step 36:** Start the vehicle and check for any leaks.
- Step 37:** Congratulations, your system is now complete and fully installed!