



## INSTALLATION INSTRUCTIONS

MAKE: BMW

MODEL: 3 Series (E91/92/93) / 128i (E82/88)

YEAR: 06-13 / 08-13

ENGINE: L6-3.0L Non-turbo

## Twisted Steel Header 48-36307-1 (w/Cat)



### Parts Included:

- Bolt, M10 X 1.25 X 35mm, 4 (03-50245)
- Nut, M10X 1.25, 4 (03-50400)
- Header gaskets, 6 (05-46067)
- Thermo Wrap Heat Tape 3" x 3" 2 (05-40116)

### Tools Needed:

- O2 sensor wrench
- 8mm, 10mm, 12mm, 13mm, & 18mm socket
- 3/8" ratchet
- E10 Torx socket
- E18 Torx socket

**CAUTION:** 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. aFe recommends professional installation on our products.

- 1: (Read Instructions prior to installation) Secure vehicle on jack stands (Refer to your manual for specified jack stand positions).
- 2: Remove bolts from coolant overflow tank. Unplug wire connector and move to side.
- 3: Remove lower plastic skid plate to gain access to the exhaust manifolds.
- 4: Remove the center brace and cross brace secured to the chassis under the exhaust system.
- 5: Remove exhaust system.
- 6: Set aside the stock (x2) exhaust gaskets as they will be reused.
- 7: Take some masking tape and label each o2 sensor so you know which order they go back. THIS IS CRUCIAL, IF THE O2 SENSORS ARE NOT IN THE RIGHT ORDER, THE VEHICLE WILL GO INTO LIMP MODE AND RUN VERY POORLY. ALSO MARK THEIR ROUTING AND/OR TAKE PICTURES.
- 8: Now, from under the hood, mark each o2 sensor plug to mating to the wire harness and unplug. (Use masking tape and label) ONCE AGAIN, IF THESE GET MIXED UP, THE CAR WILL RUN POORLY.
- 9: Remove the (x4) o2 sensors from the OE exhaust manifolds.
- 10: Remove the (x18) nuts securing the OE exhaust manifolds to the cylinder head.
- 11: Remove OE exhaust manifolds.
- 12: Install the supplied (x6) header gaskets, by sliding over header tubes sticking out of header flange. Be careful when installing as they are easily ruined; slide on equally over tubes.
- 13: Install the front aFe Power header back on the cylinder head using the original nuts, leave the header loose for now to allow room to install rear header.
- 14: Install the rear aFe power header on the cylinder head using original nuts and only make finger tight for now.
- 15: Tighten the aFe Power header nuts (x18), starting from the center of each header flange and working your way out.
- 16: Install the (x4) o2 sensors in the correct order and locations on the aFe Power headers.
- 17: Re-route and plug the sensor plugs back on the wire harness and route in the stock routing. Refer to your marking to make sure order is correct.
- 18: Using the supplied heat adhesive tape, wrap the front o2 sensor wire where it is exposed near the aFe header.
- 19: Install the stock exhaust system.
- 20: Fasten the header secondary flanges to the stock exhaust system using the original (x2) gaskets (replace if necessary) and the provided (x4) M10 nuts and bolts and tighten.
- 23: Install lower plastic skid plate.
- 21: Install the center brace and cross brace back on the chassis.
- 22: Install the coolant overflow by plugging in electrical connector and bolt back on the chassis.
- 23: Re-check all your work.
- 24: Remove vehicle off jack stands.

Note: It is normal for the aFe header to emit smoke for the first few minutes upon initial start-up.