



## INSTALLATION INSTRUCTIONS

MAKE: Dodge

MODEL: Ram

YEAR: 2009-2016

ENGINE: V8-5.7L (2 & 4 Wheel Drive)

**Header**

**48-42001-1 (409 SS)**



### Parts Included:

- 8 x 1.25 x 25 mm bolts. (x16)
- Header bolt spacer. (x1)
- 3/8" x 16 x 2-1/4 bolts (x4)
- 3/8" x 16 nuts (x4)
- Right side header gasket. (x1)
- Left side header gasket. (x1)

### Tools Needed:

- 10mm, 13mm, 15mm, 18mm Wrench
- O2 wrench
- 10mm, 13mm, 14mm, 15mm,
- 18mm Socket
- 3/8" Ratchet
- 3/8" X 12" Extension

**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. **Note: aFe's Downpipe recommends an aftermarket tuner to clear check engine light**

- 1:** (Read Instructions prior to installation). Secure vehicle on jack stands (refer to your manual for specified jack stand positions).
- 2:** Disconnect the battery before starting work on the exhaust system.
- 3:** Loosen the muffler clamp on the exhaust system to muffler extension pipe.
- 4:** Remove exhaust from all hangers and remove from truck.
- 5:** Loosen the muffler clamp on the exhaust extension pipe to the Y-pipe.
- 6:** Remove the rubber hangers from the exhaust extension pipe remove the extension pipe.
- 7:** Un-plug O2 sensors on Y-pipe.
- 8:** Remove the (4) 10mm nuts on the Y-pipe to OE exhaust manifolds and remove OE Y-pipe.
- 9:** Remove (4) 6 mm nuts on right side exhaust manifold heat shield and remove heat shield.
- 10:** Remove the (9) exhaust manifold bolts and remove OE exhaust manifold.
- 11:** Clean the cylinder head manifold gasket surface, make sure it is free of exhaust gasket debris.
- 12:** Install right side aFe power header and right side header gasket using the 8 mm x 1.25 x 25mm bolts provided and tighten working from the center out.
- 13:** Install the thermo rap heat tape provided to heater hoses (MAKE SURE HEATER HOSES HAVE ATLEAST 2" OF CLEARANCE FROM HEADER)
- 14:** Remove (4) 6 mm nuts on left side exhaust manifold heat shield and remove heat shield.
- 15:** Remove dip stick.
- 16:** Remove (1) 6 mm bolt on dip stick tube and remove dip stick tube( take note where the top dip stick mounting bolt and its location is as it will be reused later and needs to go back in the same location)
- 17:** Remove the (8) exhaust manifold bolts and remove the OE exhaust manifold.
- 18:** Clean the cylinder head manifold gasket surface, make sure it is free of exhaust gasket debris.
- 19:** Install the Left side aFe power header and Left side header gasket using (1) OE exhaust manifold bolt and spacer provided on the bolt hole that mounts the dip stick tube, and the 8 mm x 1.25 x 25 mm bolts provided and tighten from the center out.
- 20:** Reinstall the dip stick tube using the original 6mm nut, and 6 mm bolt and tighten.
- 21:** Reinstall dip stick.
- 22:** Reinstall OE Y-pipe to the aFe power headers using the 3/8" x 16 x 2-1/4 bolts and 3/8" nuts provided make finger tight only at this time.
- 23:** Reinstall the exhaust pipe extension tube using the OE rubber isolation mounts and muffler clamp.
- 24:** Tighten the (4) 3/8" x 16 x 2-1/4 bolts and 3/8" nuts on the OE Y-pipe to the aFe power headers.
- 25:** Tighten the muffler clamp on the exhaust pipe extension tube.
- 26:** Plug in O2 sensor connectors on Y-pipe.
- 27:** Reinstall exhaust system and tighten exhaust clamp.
- 28:** Re-connect battery.