



## INSTALLATION INSTRUCTIONS

MAKE: RAM

MODEL: 2500 / 3500 "Power Wagon"

YEAR: 2014-2017

ENGINE: V8-6.4L HEMI

## 409 Stainless Steel Headers w/ Y-Pipe

48-42013-YC (Street)

48-42013-YN (Race)



### Parts Included

- (P/N: 05-144241) Header, Left Side (Street)
- (P/N: 05-144242) Header, Right (Street)
- (P/N: 05-144243) Left Y-Pipe (Street)
- (P/N: 05-144244) Right Y-Pipe (Street)
- (P/N: 05-144246) Y-Pipe Extension (Street)

### Hardware Included

- (P/N: 05-46145) Extension, O2 Sensor 9" in. (x1)
- (P/N: 05-60167) Ties, Nylon Cable: 12" (x4)
- (P/N: 05-41055) Clamp, 3" (x3)
- (P/N: 05-41171) Clamp, 3-1/2" (x1)
- (P/N: 03-50421) Screw, Hex: M8 (x18)
- (P/N: 03-50404) Bolt, Hex: M8 (x2)
- (P/N: 03-50403) Nut: M8 (x2)
- (P/N: 05-46093) Gasket (x1)
- (P/N: 05-46094) Spacer, Bolt (x1)
- (P/N: 05-40116) Tape, Heat Thermo Wrap 3" x 3" (x1)
- (P/N: 05-40110) Tape, Heat Thermo Wrap 4" x 4" (x1)



### THIS PART IS FOR RACE USE ONLY

This is a "Race Only" Product Used solely for Competition. 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.

**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.

- Step 1: (Read Instructions prior to installation)** for faster removal and installation of exhaust a trained professional is recommended for this procedure.
- Step 2:** Secure vehicle on jack stands (refer to your manual for specified jack stand positions.)
- Step 3:** Disconnect the battery before starting work on the exhaust system.
- Step 4:** Remove fender well covers for easier access to OE manifolds.
- Step 5:** Remove exhaust from all hangers and remove from truck.
- Step 6:** Un-plug O2 sensors on the Y-Pipe.
- Step 7:** It will be necessary to remove the cross member to remove the OE Y-pipe. Support the transmission using a floor jack/transmission jack and remove the cross member. Remove the (4) nuts and bolts on the Y-Pipe to the OE exhaust manifolds and remove the OE Y-Pipe.
- Step 8:** Reinstall the cross member.
- Step 9:** Remove (x4) 6 mm nuts on right side exhaust manifold heat shield and remove the heat shield.
- Step 10:** Remove the (x9) right side exhaust manifold bolts and remove OE exhaust manifold.
- Step 11:** Clean the cylinder head manifold gasket surface, make sure it is free of exhaust gasket debris.
- Step 12:** Install right side aFe power header, using the gasket, 8mm bolts provided in the hardware kit and tighten working from the center to the outside.
- Step 13:** Remove the dip stick tube ( take note where the dip stick tube bracket bolts to the exhaust as it will go back in the same location later using the original bolt).
- Step 14:** Remove (x4) 6 mm nuts on left side exhaust manifold heat shield and remove heat shield.
- Step 15:** Remove the (x10) left side exhaust manifold bolts and the (X2) EGR nuts from the EGR flange and remove the OE exhaust manifold.
- Step 16:** Clean the cylinder head manifold gasket surface, make sure it is free of exhaust gasket debris.

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- (P/N: 05-144242) Header, Right (Street)
- (P/N: 05-144243) Left Y-Pipe (Street)
- (P/N: 05-144245) Right Y-Pipe (Race)
- (P/N: 05-144246) Y-Pipe Extension (Street)

### Hardware Included

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- (P/N: 05-60167) Ties, Nylon Cable: 12" (x4)
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- Step 17:** Install the left side aFe power header and dip stick tube at the same time (the dip stick tube is almost impossible to install after the header is installed) using the gasket, (X10) 8 mm x 1.25 x 25 mm bolts, and (x1) stock manifold bolt for the dip stick tube.
- Step 18:** Reinstall the 6mm bolt on the dip stick tube bracket to the engine block. Mount the top dip stick tube bracket to the header flange using the spacer provided in the hardware kit and the OE nut.
- Step 19:** Install (x2) OE Gaskets and provided nuts and bolts onto the EGR flanges and tighten.
- Step 20:** Install the 3" band clamp on the left Y-Pipe tube. Install the left side Y-Pipe tube into the right side Y-Pipe. Install the 3" band clamps on the inlet tubes of the Y-Pipe. Now install the Y-Pipe assembly onto the aFe power headers, but do not tighten clamps yet
- Step 21:** Install the 3-1/2" band clamp onto the end of the aFe power extension tube.
- Step 22:** Slide the aFe power Y-Pipe extension tube onto the Y-Pipe, reinstall the rubber isolation mount on the hangers.
- Step 23:** Reinstall the OE exhaust system onto the aFe power extension tube. Adjust the Y-Pipe for clearance on the cross member and proper fit and tighten all band clamps.
- Step 24:** Remove the O2 sensors from the OE Y-Pipe (mark the O2 sensors so they can be reinstalled in the correct location later) reinstall the O2 sensors on the aFe power Y-Pipe in the correct location and tighten.
- Step 25:** Use the O2 extension lead on the left rear O2 and plug in all O2 connectors.
- Step 26:** Double check all work and ensure everything is tight.
- Step 27:** Re-connect the battery.
- Step 28:** Congratulations, your system is now complete and fully installed!
- (It is recommended to re-tighten all clamps and bolts after 50-100 miles.)**