

banks

with Installation Instructions
Owner's Manual

**Banks
TorqueTubes®
System**

**1999-2008 GM 4.8L, 5.3L, 6.0L & 2009-2010 GM 5.3L
V-8 Pickups and SUVs**

THIS MANUAL IS FOR USE WITH SYSTEM 48004-48011

banks

General Installation Practices

1. For ease of installation of your Banks system, familiarize yourself with the procedure by reading the entire manual before starting work.
2. The exploded views provide only general guidance. Refer to each step and section diagram in this manual for proper instruction.
3. Throughout this manual, the left side of the vehicle refers to the driver's side, and the right side to the passenger's side.
4. Disconnect the ground cable from the battery before beginning work. If the vehicle has more than one battery, be sure that the engine primary battery is disconnected. This is necessary for safety and to ease the installation of the passenger side TorqueTubes® exhaust manifold.
5. Route and tie wires and hoses a minimum of 6 inches away from exhaust heat, moving parts and sharp edges. Clearance of 8 inches or more is recommended where possible.
6. When raising the vehicle, support it on properly weight-rated safety stands, ramps or a commercial hoist. Follow the manufacturer's safety precautions. Take care to balance the vehicle to prevent it from slipping or falling. When using ramps, be sure the front wheels are centered squarely on

the topsides; put the transmission in park; set the hand brake; and place blocks behind the rear wheels. If the vehicle is supported by a hoist, the front wheels may be removed for further accessibility

CAUTION! Do not use floor jacks to support the vehicle while working under it. Do not raise the vehicle onto concrete blocks, masonry or any other item not intended specifically for this use.

7. During installation, keep the work area clean. If foreign debris is transferred to any Banks component. Clean it thoroughly before installing.

Tools Required

- 1/2" and 3/8" drive ratchets with standard and metric sockets and 1/2" and 3/8" drive extension
- Standard and metric combination or open-end wrenches
- Standard screwdriver
- Clean shop towels or rags
- Pry bar
- Foot-pound torque wrench
- Penetrating oil or light lubricant spray

TorqueTubes Systems Installation

1. Raise the vehicle and support it with properly weight rated safety stands, ramps or a commercial hoist. Follow the manufacturer's safety precautions. When using ramps, be sure the front wheels are centered squarely on the topsides; place the transmission in neutral; set the parking brake and place blocks behind the rear wheels.

CAUTION: DO NOT WORK UNDER ANY VEHICLE SUPPORTED ONLY BY A FLOOR JACK. SEVERE INJURY MAY RESULT.

2. Disconnect the negative (ground) cable from the battery (or batteries, if there are two) before beginning work.

Secure the cable(s) so that they do not come in contact with the battery posts during the installation.

3. Remove dipstick, unbolt and remove dipstick tube. Pull dipstick tube out with a twisting motion.

NOTE: To simplify removal of the stock exhaust manifolds and installation of Banks torque tubes, remove all plastic retainer pins attached to the fender lining on the front left and right wheel liner, then remove the wheel liner and set aside.

4. Disconnect EGR tube from right side exhaust manifold (if equipped). Save all hardware for reinstallation. See **Figure 1**.

Figure 1

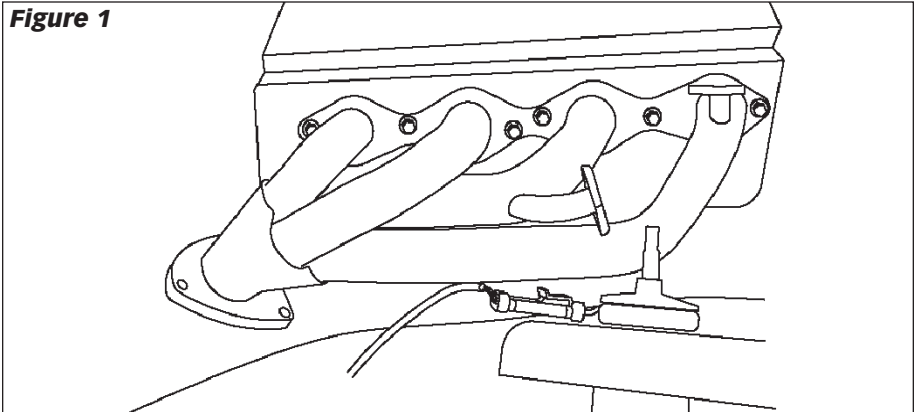


Figure 2

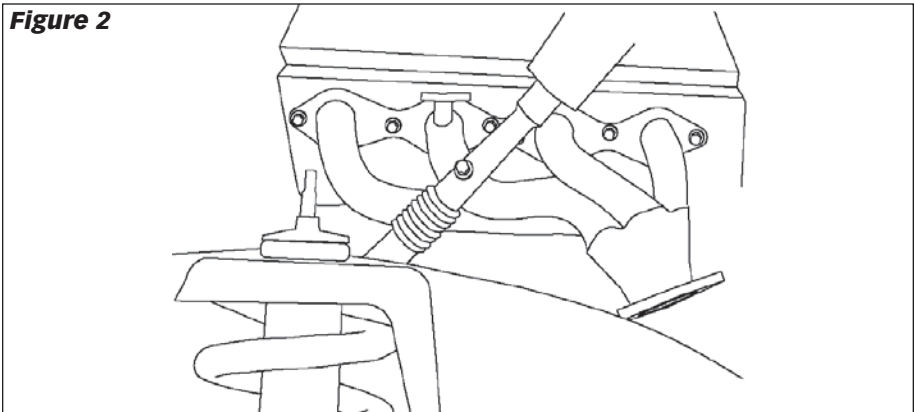
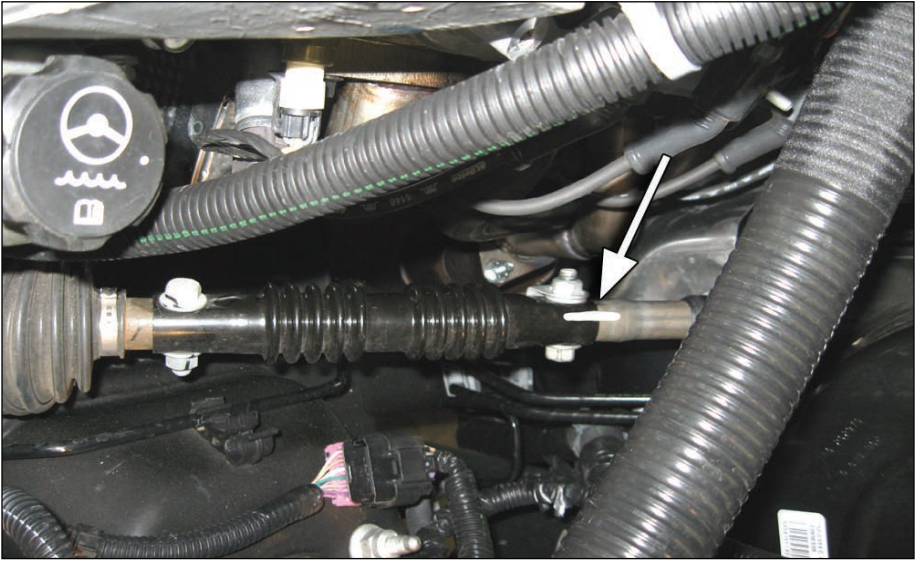


Figure 3



5. Unbolt air injection tubes (if equipped) from the exhaust manifolds. Save all hardware for reinstallation. See **Figure 2**.

6. Disconnect spark plug wires from spark plugs. Pull boots off with a twisting motion.

7. Unbolt the exhaust manifolds from the cylinder heads. Save the stainless steel exhaust manifold gaskets for reinstallation.

8. On each side of the engine, unbolt the exhaust manifold outlet flange, then remove exhaust manifolds.

*NOTE: Disconnecting the steering shaft at the u-joint bolt may simplify removal of the exhaust manifold. Draw a line across the steering shaft (firewall side) and knuckle u-joint. See **Figure 3**. Remove the knuckle u-joint bolt. Make sure not to swivel the steering shaft nor knuckle u-joint when disconnected.*

9. Remove the stock ring gasket attached to the driver side Y-pipe.

NOTE: The ring gasket will be replaced with a supplied ring gasket in a later step.

10. Inspect the exhaust outlet surface on the cylinder heads and remove any debris that might prevent the new manifolds from sealing.

NOTE: Inspect the gasket and check for evidence of exhaust leakage. If gasket is leaking then replace original gasket before installing the Banks TorqueTubes.

11. Place a small amount of anti-seize compound on the threads of each of the supplied 12-manifold Flange hex bolts. When installing the bolts be careful not to cross thread in the aluminum threads of the cylinder head.

12. From under the vehicle, install the Banks TorqueTubes manifold on the cylinder heads using the original gaskets and supplied 8mm flange hex bolts.

NOTE: The gaskets have markings stamped in them for proper orientation.

Retain the TorqueTubes with six (6) of the supplied 8mm bolts. Torque bolts to 18 ft-lbs.

13. If your vehicle is equipped with air injection and EGR fitting then locate previously removed hardware and supplied gaskets. Reconnect air injection tubes and EGR tube to the TorqueTubes manifolds. Tighten the air injection and EGR fitting to 8-10 ft-lbs.

14. Locate the supplied ring gasket and conical seal from your kit. Install the gaskets into the Y-pipe flange groove. See **Figure 4** and **Figure 5** for reference.

NOTE: Some model years do not have a conical seal on the Y-pipe but instead utilize a ring gasket for both Y-pipe flanges.

If the passenger-side Y-pipe flange is flat, install a ring gasket (Banks p/n 93167, GM p/n 1507-7362) into the Y-pipe groove. See **Figure 4**. If the Y-pipe flange has a flare, install the

conical gasket (Banks p/n 93163, GM p/n 1503-5747) into the TorqueTubes. See **Figure 5**.

15. Reconnect and tighten the outlet flange to the Y-pipe using the supplied $\frac{3}{8}$ bolt, washer and nut. Torque the six (6) Y-pipe flange bolts to 35 ft-lbs.

*NOTE: If you have previously disconnected the steering shaft, reinstall the knuckle u-joint bolt, make sure that the knuckle u-joint and the steering shaft are aligned utilizing previously drawn line. See **Figure 3**.*

16. Reinstall the dipstick tube.

For 2009-2010 models only, use the supplied spacer and 10mm bolt. Install the bolt through the dipstick tube bracket then through the spacer and into the cylinder head.

NOTE: The spacer and 10mm bolt are packaged in an individual package.

17. Reconnect spark plug wires.

NOTE: If previously removed, reinstall the front left and right wheel liner using the factory plastic retainer pins.

Figure 4

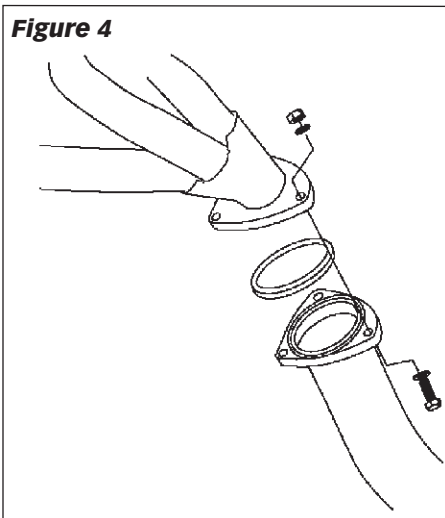


Figure 5

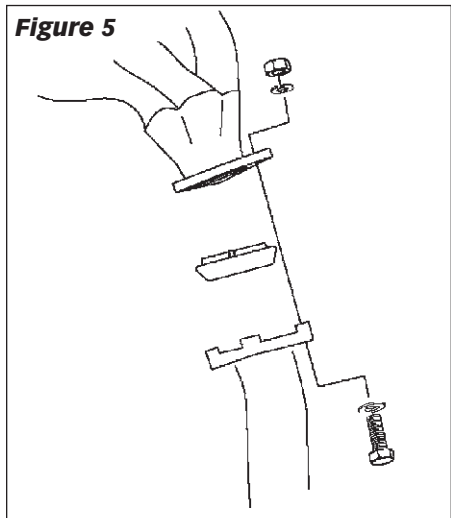
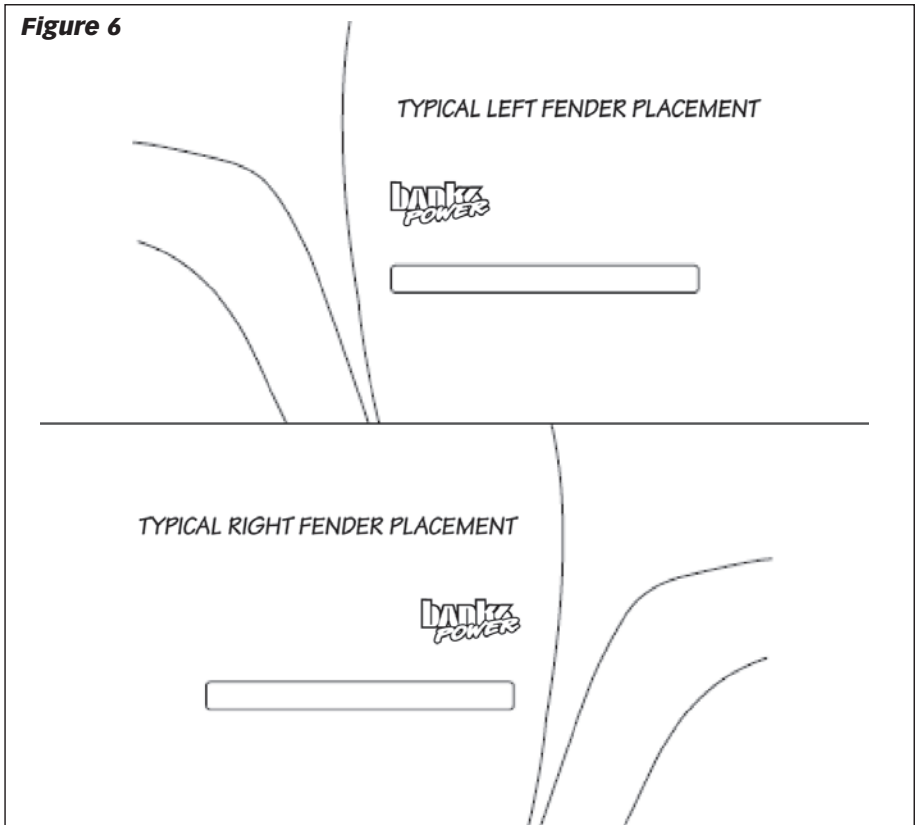


Figure 6



18. Reconnect the negative (ground) cable(s).

19. Your system includes two (2) “Banks Power” logos designed to complement the vehicles front fenders. Use the provided measurements for a clean factory look. See **Figure 6**.

20. Lower the vehicle. Start the vehicle and listen for exhaust leaks. Tighten clamps as necessary. Drive

the vehicle and listen for any leaks or rattles once normal operating temperature is reached. Correct as necessary.

NOTE: The vehicle exhaust may smoke upon initial start-up. This is normal, as grease used in the tube-bending process burns off the pipes.

21. The Banks TorqueTubes system is now complete.