SHORTY SMOG HEADERS
05-11 Toyota Tacoma/07-09 FJ Cruiser
V6-4.0L 2WD/4WD
P/N 91733FLT (Painted) & 91733-1FLT (Ceramic Coated)

NOTE: Read all instructions carefully before attempting the installation.

Thank you for making FLOWTECH HEADERS your choice in a high-performance exhaust system. Extensive dyno/track testing has enabled FLOWTECH to offer the most advanced design in headers for your application. Due to the restricted room available in the engine compartment, your headers may be close to some body and chassis components. This condition is normal. The installation, while not complex, will take a certain amount of time. However, the additional horsepower and improved performance will more than justify your efforts. Proper installation and maintenance will ensure long life and maximum performance from your FLOWTECH exhaust system. This part is 49 state emissions legal.

BEFORE STARTING:

Your vehicle must be raised a minimum of 36 inches. A floor hoist is ideal. If no hoist is available we strongly urge the use of axle stands as a safety measure.

CAUTION! Your truck should not be supported on a bumper jack prior to installing headers, take the time to make a careful and complete header fitting into your vehicle properly.

1. Spray WD-40 or equivalent on all accessible fasteners and fittings before removing them.
2. Starting with the driver's side, remove the exhaust system and catalytic converters. Remove the oxygen (O2) sensor.
3. Remove the support bracket bolt from the catalytic converter assembly and from the side of the bell housing.
4. Remove the bolts from the manifold/catalytic converter to the cylinder head.
5. Move the support bracket out of the way of the manifold/catalytic converter.
6. Remove the manifold/catalytic converter from the vehicle.
7. Remove the oxygen (O2) sensor from the manifold/catalytic converter.
8. The catalytic converter is welded to the factory exhaust manifold. You need to cut the catalytic converter away from the exhaust manifold by cutting alongside the weld on the catalytic converter side. Please cut the weld as straight as possible. This will make the assembly easier to install in later steps.

9. Remove any burrs or loose metal from the catalytic converter.

10. Slip the catalytic converter onto the header collector.

11. Using a gasket scraper, remove all carbon deposits and high spots from the head surface. Apply a high temperature sealer to the exhaust pipe flare, to avoid problems due to the lack of space later in the installation.

12. While holding the header in place, slide the supplied gasket between the motor and the header. Start the bolts (most restricted first) and washers on the center holes before pressing the header to the head. Tighten the nuts and bolts to the factory specifications.

13. Install the catalytic converter assembly onto the header and connect the support bracket as well as the rest of the exhaust system. The bracket and exhaust will re-align the catalytic converter into the factory position. **NOTE:** This is a critical step as the location of the catalytic converter is important to engine calibration functions.

14. Tighten all fasteners completely. Once completed, tack-weld the catalytic converter to the header collector in three locations. Make sure it is held securely.

15. Remove exhaust and brackets. Remove the header/catalytic converter assembly. Complete the weld (360 degrees) at the catalytic converter and header collector joint.

16. Install all sensors and re-install the header using the supplied gaskets and factory hardware.

17. Reconnect factory support brackets.

18. On the passenger's side, repeat the process from the driver's side.

19. Make sure there is adequate clearance on plug wires, battery cables, wire looms, brake lines, coolant lines, etc.

20. Reconnect the battery cables, rechecking everything in the process.

21. Start the engine and let it warm up. Check for leaks. Shut engine off and let it cool down. Check to make sure all connections are tight.

22. When finished with the installation, give your vehicle a test drive checking carefully for any new noises. After several days of driving, re-tighten all the bolts.