



SHORTY SMOG HEADERS EMISSION COMPATIBLE

Part Numbers	Model Years	Engine Size
91627FLT Standard Finish and 91627-1FLT Ceramic Finish		
F150, F250 (2 & 4WD)	1987-95	5.0L
Bronco (4WD)	1987-95	5.0L
91628FLT Standard Finish and 91628-1FLT Ceramic Finish		
F150, F250 (2 & 4WD)	1986-95	5.8L
Bronco (4WD)	1986-95	5.8L

NOTE: Stock replacement – bolts directly to factory headpipes.

NOTE: Will work with factory exhaust system.

NOTE: 49 states emissions legal, California E.O. pending

We realize that you had many choices when you chose your headers, and we thank you for purchasing FLOWTECH®.

At FLOWTECH®, we put our many years of performance exhaust experience into every product we build. We know you will agree that FLOWTECH® Headers are the best you can buy at any price.

NOTE: As a result of the restricted room available in some engine compartments, you may experience a close fit to some body and chassis components. This is a normal condition. If this is your first time installing a set of headers, it may be time consuming. While not particularly complex, stick with it, for as soon as you start your engine, the reward of additional horsepower and performance will be well worth your efforts. Proper installation and periodical maintenance will result in the maximum performance and life from your headers.

CAUTION: READ THESE INSTRUCTIONS CAREFULLY BEFORE BEGINNING INSTALLATION.

WARNING: For the ease of installation, your vehicle must be raised a minimum of 24". **DO NOT USE YOUR ORIGINAL EQUIPMENT JACK. IT IS INTENDED FOR EMERGENCY USE ONLY.** We suggest the use of a frame jack in conjunction with a floor jack (as the main support). This will minimize the possibility of the vehicle dropping during installation. **NEVER GO UNDER ANY VEHICLE THAT IS SUPPORTED ONLY BY A BUMPER JACK.**

HEADER KIT CONTENTS:

Quantity	Description
1	Driver's side header
1	Passenger's side header
2	Header gaskets
16	3/8" x 1" Header bolts
4	7/16"-14 x 2 1/2" Cap screws
4	7/16"-14 Nuts
1	Secondary A.I.R. tube bracket & bolt for 91628FLT

PREPARE THE VEHICLE FOR INSTALLATION:

1. Disconnect the battery to prevent accidental damage to the electrical system.
2. From below, remove the exhaust pipes from the manifolds.
3. Unbolt the spark plug wire looms. Tag and remove the spark plug wires from the spark plugs and position them out of the way.

CHECK THE CONDITION OF THE ENGINE MOUNTS:

It is recommended that you install new engine mounts before installing the headers.

LEFT SIDE HEADER INSTALLATION:

1. Remove the oil dipstick and tube. Unbolt the exhaust and remove.
2. Clean the cylinder head of any grease, rust, and gasket material that may be present.
3. It will be necessary to straighten the dipstick bracket for header clearance (**Figure A**).
4. Install the gasket and header using the header bolt supplied. Torque to the factory specifications (30-35 ft./lbs.).
5. Install the dipstick and tube. Check clearance.

RIGHT SIDE HEADER INSTALLATION:

1. Unbolt the E.F.I. plenum support. Unbolt the exhaust manifold and remove.
2. Clean the cylinder head of any grease, rust, and gasket material that may be present.

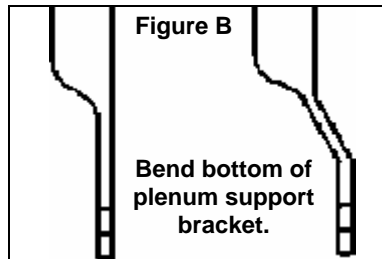
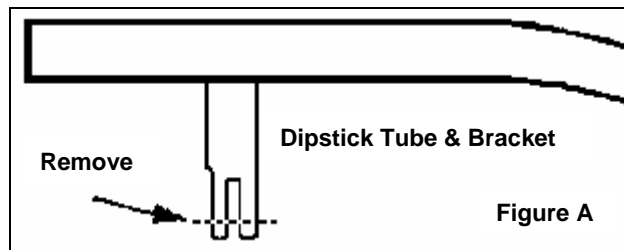
3. Temporarily install the header using two bolts. This is to determine if modification is necessary to fit the plenum support.
4. Modify the plenum support. Grind the bottom end of the support bracket to clear the larger tubes. Bend the bottom end of the bracket to fit (**Figure B**).
5. On P/N 91627FLT, the secondary A.I.R. tube bracket will need to be ground to clear the larger tube.
6. On P/N 91628FLT, the secondary A.I.R. tube has a plastic diverter valve at the rear. This valve must be moved away from the header by using the steel bracket included. This bracket will bolt to the tube's original location and the tube will be mounted to the bracket.
7. When the above mentioned modifications have been completed, remove the header and reinstall the gasket and header using the header bolt supplied. Torque to the factory specifications.

CONNECT THE EXHAUST SYSTEM:

From under the vehicle, reinstall the exhaust system to the headers using the supplied bolts and nuts.

AFTER HEADERS ARE IN PLACE:

1. Inspect all points with limited clearance. Relocate any points that have direct contact with the headers. Make sure there is adequate clearance around all lines (transmission, brake, fuel, and electrical wires). Reroute if necessary. **REPLACE ANY FLUIDS THAT YOU MAY HAVE REMOVED OR LOST.**
2. Reconnect the battery cable.
3. When you have finished installing your headers, take the vehicle for a road test. Listen carefully for any exhaust leaks or other strange noises and make corrections. When the vehicle has been driven for a few days, retighten the header bolts. We find that periodically checking the bolts will prevent the flange from warping and the burning out of the header gaskets.



LIMITATION OF LIABILITY – DISCLAIMER:

The regulation of emissions production, noise levels, and safety standards is undertaken by the federal government, each of the fifty state legislatures, and by many local municipalities, towns, and counties.

FLOWTECH makes no warranties of merchantability, of fitness for particular purpose, or that its products are approved for general use, or that its products are approved for general use, or that its products comply with laws, regulations, or ordinances in the state where they may be sold to the ultimate purchaser, the consumer.

Unless expressly stated to the contrary in the catalog, instruction sheet; or price list, the entire risk as to the conformity of any company product in any such state and as to repair should the product prove to be defective or non-conforming, is on the retail purchaser, the buyer, the ultimate consumer, of such product and it is not upon the seller, distributor, or manufacturer.

In this connection, the retail purchaser, the buyer, the ultimate consumer assumes the burden of the entire cost of any and all necessary service, alterations, or repair.

THE FOREGOING STATEMENT LIMITS THE LIABILITY OF THE MANUFACTURER.

California vehicle code, sections 27156 AND 38391, prohibits the advertising, offering for sale, or installation of any device, which modifies a vehicle's emission control system, unless exempted, unless otherwise noted. FLOWTECH Headers have not received an exemption from these code sections and are to legal for sale or use in California on vehicles originally equipped with catalytic converters, it is illegal, except for racing vehicles, which may never be driven upon a highway. To remove or otherwise render inoperative any emission control device on the regulated motor vehicles – check catalog listings to ensure proper application in the other 49 states, unless otherwise noted, FLOWTECH Headers are not legal for pollution-controlled motor vehicles, except for racing vehicles, which may never be used upon a highway and are not intended or applicable for highway use.

91627-3901FLT

Date: 8-23-06