



**2009-14 Ford F-150 (all wheelbases) with 4.6/5.0/5.4L V8
Flowtech Dual Cat-Back Exhaust System, 409SS w/ 304SS Tips
52015FLT**

Installation Instructions

THIS KIT IS DESIGNED TO FIT WITH THE OE HIDDEN HITCH. IT MAY NOT FIT AFTERMARKET HITCHES!!!!



Thank you for making FLOWTECH Exhaust your choice in a high-performance exhaust system. Extensive dyno/track testing has enabled FLOWTECH Exhaust to offer the most advanced design in exhaust systems. 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.

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. Please read these instructions in their entirety before attempting installation.

CAUTION! WORK ONLY ON A LEVEL SURFACE. USE JACKS /JACK STANDS OF SUFFICIENT CAPACITY TO LIFT AND SUPPORT YOUR VEHICLE. NEVER WORK UNDER A VEHICLE SUPPORTED BY A FLOOR OR BUMPER JACK.

INCLUDED HARDWARE:

Qty.	Description	Qty.	Description	Qty.	Description
1	Inlet Pipe	2	3" Clamp Assembly	1	Tailpipe (RH)
1	Extension Pipe	5	2-1/2" Clamp Assembly	1	Tailpipe Front (LH)
1	Muffler	1	5/16" x 1-1/4" Bolt	1	Tailpipe Rear (LH)
2	Rear Exit Pipes	2	5/16" Flat Washer	1	Frame Hanger (Rear)
2	Side Exit Pipes	1	5/16" Lock Washer	1	Rubber Hanger
2	304 SS Exhaust Tips	1	5/16" Nut	3	Hanger Keeper
2	3/8" x 2-1/2" Bolt	4	3/8" Flatwasher	1	Ring Clamp Hanger
2	3/8" Nut	2	3/8" Lockwasher		

Check the hardware package. If anything is missing, please contact Technical Service at **1-866-464-6553** or **270-781-9741**.

INSTALLATION:

Removal of Stock Exhaust System:

1. Disconnect the negative cable from the vehicle battery.
2. If necessary, lift the vehicle and secure on jack stands.
3. Remove the (x2) bolts securing the OE exhaust system to the OE Y-pipe.
4. Remove the OE exhaust off all rubber isolators and remove OE exhaust.
5. On a workbench, transfer the rubber isolation mounts off the OE exhaust and onto the Flowtech Cat-Back exhaust system. We recommend transferring the isolation mounts one at a time to ensure they go back to their original positions.

Installation of Flowtech Exhaust System:

1. Prep the supplied clamps by removing the nuts and applying a thick lubricant, such as white grease or anti-seize to the bolt and nut threads.
2. Mount the left hanger bracket to the frame (**Figure 1**) on the driver's (LH) side using the factory holes (one round and one square) that are on the bottom of the frame adjacent to the spare tire. Place a 5/16" bolt and flat washer up into the square hole and back down through the round hole. Place the bracket in position and install a flat washer, lock washer, and nut onto the bolt. Using (2) 1/2" wrenches, tighten firmly, but do not over-tighten.



Figure 1

3. Based on which cab/bed combination you have, the Inlet Pipe may need to be trimmed to accommodate the various wheelbase lengths. Make sure all measurements are double checked before cutting.
 - 126" WB Regular Cab:**
6.5' Bed – Trim 18" from rear of Inlet Pipe. Do not use the shorter Extension Pipe.
 - 133" WB Super Cab:**
5.5' Bed – Trim 12" from rear of Inlet Pipe. Do not use the shorter Extension Pipe.
 - 145" WB SuperCrew:**
8.0' Bed – Use Inlet Pipe with no modification. Do not use the shorter Extension Pipe.
 - 145" WB Super Cab:**
6.5' Bed – Use Inlet Pipe with no modification. Do not use the shorter Extension Pipe.
 - 157" WB SuperCrew:**
6.5' Bed – Trim 6" from rear of Inlet Pipe and use the shorter Extension Pipe.
 - 163" WB Super Cab:**
8.0' Bed – Use both Inlet Pipe and Extension Pipes with no modification.
4. Place the inlet pipe flange onto the back of the stock head pipe and fasten using the 3/8" bolts, washers, and nuts supplied in the kit. Tighten enough to hold in place, but still allow for adjustment.
5. Slide the Inlet Hanger over the back of the Inlet Pipe and the slide the hanger into the factory rubber mount. Tighten the clamp enough to hold it in place.
6. Place the inlet of the muffler through the inlet hanger and onto the back of the inlet pipe and support with a stand. Level the muffler and tighten the clamp at the inlet enough to hold in position, but still allow for adjustment.
7. Install a provided 2-1/2" clamp onto each of the two muffler outlets. Then, place the right side tailpipe in position over the axle and into the right side muffler outlet while also connecting the hanger rod onto the rubber mount on the vehicle. Tighten the band clamp enough to hold, but still allow adjustment.

8. Place the front section of the (LH) tailpipe into the left muffler outlet and insert the hanger rod welded to the pipe into the rubber mount on the vehicle. Tighten the clamp enough to hold in place, but still allow for adjustment. Lace another clamp onto the rear of this pipe in preparation for the next step.
9. Slip the rubber hanger onto the hanger rod of the left rear tailpipe. Place the expanded end of the pipe over the front section and connect the rubber hanger to the frame mount installed in Step 2. Tighten the clamp enough to hold, but still allow adjustment. Place the (2) 304SS exhaust tips onto the exit pipes and tighten the pinch bolts just enough to hold in position. Rotate the exit pipe to the desired distance from the bumper or fender so that the tips are where you want them.

NOTE: Final positioning is best kept until the vehicle is on the ground so that you can properly see where you want them.

10. Adjust the positioning of all the pipes and muffler to provide the proper fit and clearance. We recommend at least $\frac{3}{4}$ " of clearance between the exhaust components and other vehicle parts keeping suspension travel and vibration in mind. After all adjustments have been made, tighten all clamps and other bolts and nuts securely.
11. Once the system is fully secure, slide the $\frac{7}{16}$ " hanger keeper onto the Left Tailpipe hanger. This hanger keeper will prevent the hanger rods from slipping out of the rubber mount.
12. Reconnect the battery, start the engine, and check for leaks.
13. Re-check your work. Remove the jack stands and lower the vehicle. After 150 miles, re-check and tighten all bolts.

NOTE: It is normal for the Flowtech Exhaust System to emit smoke for the first few minutes during break-in period.

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 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 that have not received an Executive Order (E.O.) exemption from these code sections are not legal for sale or use in California on vehicles originally equipped with catalytic converters, except for racing vehicles, which may never be driven upon a highway. Check with your local authorities to determine if these headers are legal for use in your particular area.

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