

FLOWMASTER™

FORCE II™

SYSTEM #17222

1998-2003 FORD F-150 TRUCK WITH V-8 ENGINE

½ TON - 4X2 / 4X4 , ALL WHEELBASES

REAR EXIT STAINLESS TIPS

10/16/07

Removal:

- 1) Raise the vehicle and support with jack stands.
- 2) Using a hacksaw or sawsall, cut the stock tailpipe off where it exits the muffler. This step is not mandatory, but it makes removal a little easier.
- 2) Separate the three rubber hangers on the muffler and tailpipe from their rubber mounts on the vehicle. Remove the tailpipe and set aside.
- 4) Support the muffler with a stand, remove the clamp at the front of the muffler. Once the clamp is removed it may be necessary to heat this connection for ease of removal. **Please use extreme caution!**
- 5) Remove the muffler assembly and set aside.

Installation: (If you live in a geographical area that has harsh winters or sees a great deal of precipitation, the use of high tempature paint over the welded areas can help to prevent surface rust and premature corrosion.) Note: before installing anything, prep the clamps supplied in the hardware kit by removing the nuts, and applying a thick lubricant such as white grease or anti-seize to the threads.

- 1) Place inlet pipe #16179 in position on the pipe from the catalytic converter, install a 2½” clamp but do not tighten at this time.
- 2) Place muffler #525561 on the inlet pipe, support with a stand. Install a 2½” clamp but do not tighten at this time.
- 3) Using the 5/16" bolts, nuts and washers provided bolt hanger #248HA to the frame on drivers side of the vehicle using the two holes about an inch apart on out side of frame where the shock is located. Then slide HA168 ruber hanger onto frame hanger.
- 4) Place the right side tailpipe #16401 in position over the axle and into the right side muffler outlet, then place the two hangers welded to the pipe into the rubber mounts.
- 5) Place the front section of the left side tailpipe #16180 into the left side muffler outlet and insert hanger into the rubber hanger mount.

NOTE: On some 1998 models, it may be necessary to trim 2½” off of the rear of inlet pipe #16179 in order for the forward tailpipe hangers to align properly with the rubber mounts on the vehicle.

- 6) Connect the rear section of the left side tailpipe #16400 onto the back of the front section by sliding the two sections together at the slip-fit connection over the rear axle, then place the rear hanger into the rubber hanger you previously installed. Install a 2½” clamp onto the muffler outlets and the over axle slip fit connection, do not tighten at this time.
- 7) Place the two stainless tips onto the ends of the tailpipes and adjust to the desired exit location. Tighten the hose clamps enough to hold but still allow for adjustment.
- 8) Adjust the position of all the pipes and muffler to provide a satisfactory fit. A minimum of 3/4" clearance around all parts of the system should be maintained, while keeping suspension travel and vibration in mind.
- 9) Tighten all clamped connections securely. Place the supplied 7/16" hanger keepers onto the ends of all the hangers, these will prevent the hangers from slipping out of the rubber mounts. For a cleaner appearance, connections can be welded and the clamps removed.
- 10) To prevent the rear axle breather tube from contacting the left side tailpipe, and possibly being damaged, use the enclosed (ZIPTIE) to fasten the rear axle breather tube to the brake line bracket located on the frame.

Note: We recommend welding all slip fit connections.

PACKING LIST

| <u>Qty.</u> | <u>Description</u> | <u>Part #</u> |
|-------------|----------------------|---------------|
| 1 | Inlet pipe | 16179 |
| 1 | Muffler | 525561 |
| 1 | Right Tailpipe | 16401 |
| 1 | Left Front Tailpipe | 16180 |
| 1 | Left Rear Tailpipe | 16400 |
| 2 | 3" Stainless Tip | ST396 |
| 1 | Parts kit | PK398 |
| 5 | 2 ½" clamp | MC250S |
| 1 | Rubber Hanger | HA168 |
| 1 | Hanger assembly | 248HA |
| 2 | 5/16" x 1" Bolt | |
| 2 | 5/16" Nut | |
| 2 | 5/16" lock washer | |
| 4 | 5/16" flat washer | |
| 5 | 7/16" hanger keepers | |
| 1 | Plastic Ziptie | |

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