



Installation Instructions

817478

2009-14 FORD F-150

4.6L, 5.0L & 5.4L ENGINE

2/4 Wheel Drive & All Wheelbases

Removal:

Rev. 3/26/2020

- 1) Raise the vehicle up on a hoist or rack to working height. If you do not have access to a hoist or rack raise the vehicle and support securely with jack stands.
- 2) Begin by applying a lubricant to each of the rubber hanger mounts, as well as the clamp and flange bolts. This will make the removal and installation process much easier.
- 3) Remove the two bolts at the front flange connection, and loosen the band clamp connection that is behind it on the inlet pipe. There is locking pin at this joint, so to separate it you will have to slide the muffler assembly back a little bit, twist the front inlet pipe clockwise, and then you can slip the front inlet pipe back to remove.
- 4) Now you can slide the muffler tailpipe assembly to the rear to disengage the rubber hanger mounts that support it. Once free, the assembly can be removed by working it forward over the rear axle. (If you are working on the ground it may be easier to cut the tailpipe off at the rear of the muffler to simplify removal)

Installation:

- 1) Mount the left hanger bracket **#211HA** to the frame on the driver's side of the vehicle. There are factory holes (one round, one square) on the bottom of the frame next to spare tire. Place the 5/16" bolt and flat washer up into the square hole and back down through the round hole. Using a flexible head magnet to help guide the bolt makes this process *much* easier. Now place the bracket in position and install a flat washer, lock washer and nut. Using two 1/2" wrenches tighten firmly (do not over tighten).
- 2) Based on production variations this is a list of cab designs, bed lengths and wheel bases that outlines the requirements for the front inlet pipe. Please follow the instructions for your particular wheelbase listed below. Double check all measurements before cutting your inlet pipe:

126" WB - Regular Cab / 6.5' Bed - Trim 18" off of inlet pipe #26276S (do not use #26277S)
133" WB - SuperCab / 5.5' Bed - Trim 12" off of inlet pipe #26276S (do not use #26277S)
145" WB - SuperCrew / 5.5' Bed - Use inlet pipe #26276S with no modifications (do not use #26277S)
145" WB - Regular Cab / 8' Bed - Use inlet pipe #26276S with no modifications (do not use #26277S)
145" WB - SuperCab / 6.5' Bed - Use inlet pipe #26276S with no modifications (do not use #26277S)
157" WB - SuperCrew / 6.5' Bed - Trim 6" off of extension pipe #26277S and use with inlet pipe #26276S
163" WB - SuperCab / 8' Bed - Use inlet pipe #26276S and extension pipe #26277S with no modifications.
- 3) Place the inlet pipe onto the back of the existing OEM head pipe and fasten using the 3/8" nuts bolts and washers provided in the hardware kit. Tighten just enough to hold in place, but still allow for adjustment.

- 4) Slide the inlet hanger **#382HA** over the back of the inlet pipe and insert the hanger into the factory rubber mount. Do not tighten this clamp yet.
- 5) Place the inlet of the muffler thru the **#382HA** onto the back of inlet pipe and support with a stand. Level the muffler and tighten the clamp at the inlet enough to hold but still allow for adjustment.
- 6) Install a provided clamp onto each of the muffler outlets. Then place the right side tailpipe **#86221S** into position over the axle and into the right side muffler outlet while also connecting the hanger on the pipe rubber mount on the vehicle. Tighten the band clamp enough to hold, but still allow for adjustment.
- 7) Place the front section of the left side tailpipe **#86222S** into the left side muffler outlet and insert the hanger welded to the pipe into the rubber mount on the vehicle. Tighten the clamp enough to hold but still allow for adjustment. Place another clamp onto the rear of this pipe in preparation for the next step.
- 8) Slip rubber hanger **#HA168** onto the hanger rod of the left rear tailpipe section **#86223S**. Place the expanded end of the pipe over the back of the front section, and connect the rubber hanger to the frame mount installed in Step 1. Tighten the clamp enough to hold but still allow for adjustment.
- 9) Slide either the side exit pipe **#86224S** or rear exit pipe **#16397S** onto the ends of both over axle pipes. Place a clamp onto these slip-fit connections and tighten just enough to hold in position. Place the two stainless tips **#ST461** onto the exit pipes and tighten the pinch bolts just enough to hold in position. Rotate the exit pipe and tip to the desired distance from the fender or bumper so that the tips are in the desired location. The final adjustment of the tips is best left to the final step, with the vehicle on the ground so that you can get a good view.
- 10) Now go back and adjust the position of all pipes and muffler to provide a satisfactory fit. A minimum of 3/4" clearance around all parts of the system must be maintained; while keeping suspension travel and vibration in mind. After adjustments have been made, you may now securely tighten all clamps, including the front hanger/clamp assembly.
- 11) After the system is secure, slide the 7/16" hanger keeper onto the left tailpipe hangers. This keeper will prevent the hanger rods from slipping out of the rubber mount.

PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part#</u>	
1	Inlet Pipe	26276S	
1	Adapter Pipe	26277S	
1	Muffler	8530552-Z	
1	Right Tailpipe	86221S	
1	Left Tailpipe, Front	86222S	
1	Left Tailpipe, Rear	86223S	
2	Side Exit Pipes	86224S	
2	Rear Exit Pipes	16397S	
2	Stainless Tip	ST461	
1	Parts Kit	PK497	
5	2 1/2" Band Clamp		MC250BS
2	3" Band Clamp		MC300BS
1	Rubber Hanger		HA168
1	Ring Clamp Hanger		382HA
1	Frame Hanger, Rear		211HA
1	5/16" Nut		HW102
1	5/16" x 1 1/4" Bolt		HW205
2	5/16" Flat Washer		HW302
1	5/16" Lock Washer		HW308
2	3/8" x 2 1/2" Bolt		HW212
2	3/8" Nut		HW103
4	3/8" Flat Washer		HW303
2	3/8" Lock Washer		HW309
3	7/16" Hanger Keeper		HW502

