



FORCE II SYSTEM #17135

1987-1996 FORD F-150
4.9L, 5.0L & 5.8L ENGINES
ALL W.B. EXCEPT KING CAB LONG BED

8/05/09

Removal:

- 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) Apply a penetrating lubricant to the muffler clamp nuts at the catalytic converter connection and the 3 rubber hangers that support the rear of the system. This will greatly ease the removal.
- 3) With a 15mm wrench, remove the muffler clamp at the catalytic converter to muffler connection.
- 4) Put a stand under the rear of the system to support it when the rubber hangers are disconnected.
- 5) Using a pry bar, disconnect the 3 rubber hangers at the rear of the system.
- 6) Slide the system back to separate the muffler from the catalytic converter. It may be necessary to slice the pipe or heat the connection with a torch to loosen it. Use extreme caution.
- 7) Remove the system from under the vehicle.

Installation:

- 1) 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.
- 2) Slip pipe **#TB220** onto the rear of the catalytic converter and install a 2 1/4" clamp. Tighten down securely.
- 3) Pipe **#TB221** must be trimmed for use on these applications:
 - 133" W.B. – Cut 22" off of non-slip fit end
 - 139" W.B. – Cut 16" off of non-slip fit end
 - 117" W.B. – Pipe **#TB221** can be discarded
- 4) Slip pipe **#TB221** onto the end of pipe **#TB220** and install a 3" clamp. Tighten lightly.
- 5) Raise muffler **#53070** into position and connect to pipe **#TB221**. (Be sure to install inlet forward.) Install a 3" clamp and tighten lightly.

- 6) Place pipe **#26021** in position over the rear axle and slip it into the rear of the muffler. Connect the 3 rubber hangers to support the pipe. Install a 3" clamp and tighten lightly.
- 7) Slip pipe **#26022** onto the rear of **#26021**. Install a 3" clamp and tighten lightly.
- 8) Adjust the position of all muffler, pipes and tips to provide a satisfactory fit. (The muffler will fit at an angle.) Maintain a minimum of 3/4" clearance between the Flowmaster system, the drivetrain and chassis components, while also keeping suspension travel and vibration in mind.
- 9) Attach the heat shield to the top of the muffler by wrapping and firmly tightening the four band clamps around the muffler body using a 8mm socket or standard screwdriver.
- 10) Tighten down all clamped connections securely. After the system is secure, slide the 7/16" hanger keepers onto the end of the hangers welded to the over-axle pipe. This will prevent the hangers from slipping out of the rubber mounts.
- 11) For a cleaner appearance and more secure installation, we highly recommend welding all slip-fit connections. If you live in a geographical area that has harsh winters or sees a great deal of precipitation, the use of high temperature paint over the welded areas can help to prevent surface rust and premature corrosion.

PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part#</u>	
1	Adapter Pipe	TB220	
1	Connector Pipe	TB221	
1	Muffler	53070	
1	Over axle Pipe	26021	
1	Exit Pipe	26022	
1	Heat shield Kit	51022	
1	Parts Kit	PK309	
4	3" Muffler Clamps		MC300G
1	2 1/4" Muffler Clamp		MC214S
3	7/16" Hanger Keepers		
1	Instruction Sheet		



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Installation diagram for:
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