

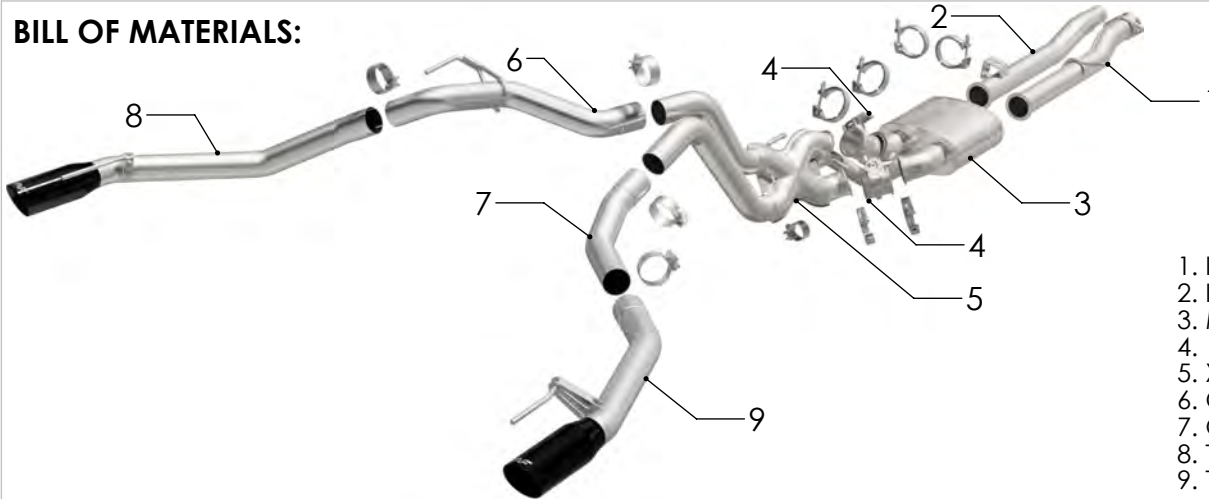


INSTALLATION INSTRUCTIONS



FORD RANGER RAPTOR 3.0L | PART NO. 19637

BILL OF MATERIALS:



- 1. Inlet Assy P/S
- 2. Inlet Assy D/S
- 3. Muffler Assy
- 4. Valve Assy (2)
- 5. X-Pipe Assy
- 6. Over Axle D/S
- 7. Over Axle P/S
- 8. TailPipe D/S
- 9. TailPipe P/S



WEAR SAFETY GLASSES



READ INSTRUCTIONS THOROUGHLY BEFORE INSTALLING PRODUCT



SPRAY LUBRICANT

To ease removal of existing exhaust components (especially on older vehicles) spray penetrating lubricant on all fasteners and hangers/insulators that will be loosened or removed and let soak before disassembly.

HARDWARE KIT:

- 1. [1] 2.00 Torca clamp
- 2. [4] 3.00 Torca clamp
- 3. [6] 3.00 V-Band
- 4. [2] J-Nut M8-1.25
- 5. [2] Bolt M6-1.25 x 25mm
- 6. [2] Spacer M6
- 7. [2] Nut M6-1.25

MINIMUM REQUIRED TOOLS:



Saw (Or Other Cutting Tool)



13,15,16,18mm



Hanger Tool (Or Pry Bar)

MAGNAFLOW RECOMMENDS PROFESSIONAL INSTALLATION ON ALL THEIR PRODUCTS

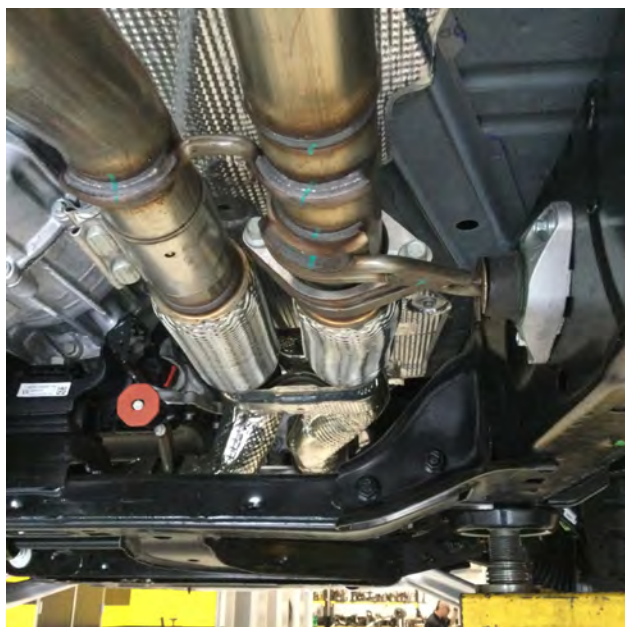


WARNING: When working on, under, or around any vehicle exercise caution. Please allow the vehicle's exhaust system to cool before removal, as exhaust system temperatures may cause severe burns. If working without a lift always consult vehicle manual for correct lifting specifications. Always wear safety glasses and ensure a safe work area. Serious injury or death could occur if safety measures are not followed.

ATTENTION: Always install any supplied band or U-bolt clamps to the proper torque specifications of 40-45 ft-lb for band clamps and 30-35 ft-lb for U-bolt clamps. Over tightening will result in the clamps breaking and will NOT be warranted by MagnaFlow.

MAGNAFLOW: 1901 Corporate Centre Dr - Oceanside, CA 92056 | 1(800)990-0905
Technical Support: 1(800) 959-9226 | Email: moreinfo@magnaflow.com

INSTALLATION INSTRUCTIONS



Step 1: Begin removal of your OE system by first unfastening the inlet slide clamp and flange located at the front of the vehicle and unplugging the electrical connections to the valves. Disengage all welded hangers from the rubber insulators. Retain the large slide clamp(s) and rubber insulators as they will be used to install your new system. **(The front hanger mount shown bolted to the frame will need to be re-located see Step 6)**



Step 2: Next loosen the clamps on both pipes where they pass over the rear axle. With the exhaust supported working front to back remove the OE exhaust system. You are now ready to install your new MagnaFlow exhaust system

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Step 3: Once the OE exhaust is on the ground use the following process for installing the MagnaFlow valves. It is best to complete the process one side at a time to avoid confusion, It may also help to take pictures of the valves on the OE exhausts to help when assembling the new MagnaFlow valves



Step 4: Begin by removing the valve motor assembly from the OE exhaust. At this point you will need to plug the motor assembly back into the wire loom on the vehicle to reset the motor location, this is done by opening/closing the driver side door. Remove the Motor assembly, it is now ready to be installed onto the MagnaFlow valve.

INSTALLATION INSTRUCTIONS



Step 5: Locate the motor onto the valve by aligning the locking tabs and secure by rotating clockwise into place (the mounting hole will line up). At this point you can determine if the motor was reset correctly. With the motor installed and keyed into place the valve butterfly should be closed. If it is not completely closed, repeat the motor reset process. Complete the assembly by securing the motor with the supplied M6 bolt and spacer. After completing both valve motor swaps set the valves aside and resume installing the exhaust.

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Step 6: At this point you will need to relocate the front hanger mount rearward from the location shown circled in red on the frame rail to the location it's currently pictured in. Add the supplied M8 Panel nuts to each hole and re-use the OE bolts.



Step 7: Begin by installing both inlet pipes using the OE fasteners and clamp, the hanger will now fit into the relocated mount. Keep all clamps and fasteners loose until a final position has been chosen.



Step 8: Next install the Muffler Assembly by connecting the Flange Rings to the Inlet pipes with the supplied V-Band Clamps



Step 9: Next install the valves using the supplied clamps and fit the electrical plugs. Orientate the valves to allow wires and valves to clear exhaust pipes and frame rails.

X INSTALLATION INSTRUCTIONS



Step 10: Loosely Fit the X-Pipe Assembly using the supplied V-Band clamps and fitting the bypass pipe to the Mid Pipe Bypass Pipes using the supplied 2.00" clamp.



Step 12: Attach the Tailpipe Assemblies to the Mid-Pipe Assemblies using the supplied 3.00" clamps and fitting the hangers into rubber insulators.



Step 11: Loosely install the two Mid-Pipe Assemblies using the supplied 3.00" Band Clamps. Fit the hanger into the rubber insulator on the Driver Side Assembly.

INSTALLATION INSTRUCTIONS



Step 13: Once a final position has been chosen for the new exhaust system, evenly tighten all clamps and fasteners, from front to rear, using the torque specifications on page one of the instructions. Inspect all fasteners after 25-50 miles of operation and re-tighten if necessary.

IMPORTANT



Need assistance?

Scan code using your mobile device to visit our help center for instant answers to common questions

Warranty &

Returns

For inquiries about warranty and returns, or to start a return, contact MagnaFlow directly:



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