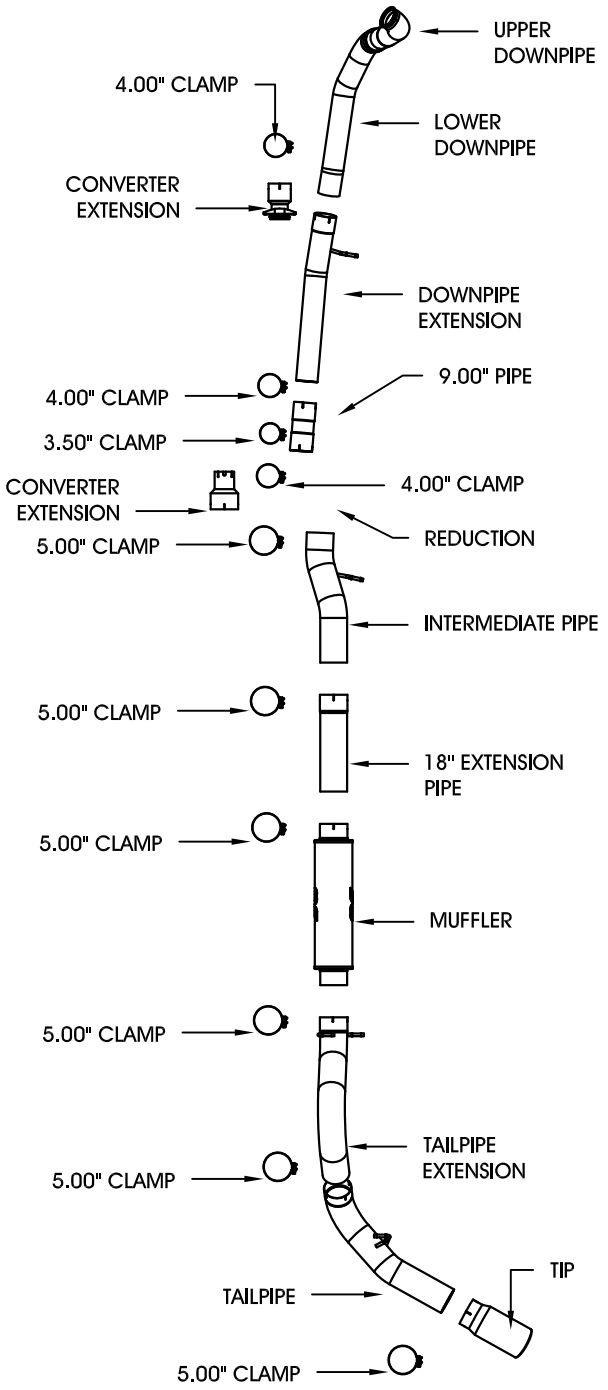
Mufflers, Converters, Systems and Tips

# INSTALLATION INSTRUCTIONS FOR 16907

## 1999-03 FORD F-250 / F-350 - V8 7.3L TURBO-DIESEL "DUALLY"




**MAGNAFLOW Performance Exhaust recommends professional installation on all their products*

***Note***: *MAGNAFLOW advises against the removal of catalytic converters. If the vehicle was originally equipped with a catalytic converter, this exhaust system is intended for off-road and racing applications only.*

***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.*

***Step 1:*** (Carefully read all instructions before installation) Disconnect the vehicle's battery before removal of the OEM exhaust. This will allow the computer to reset itself with the new system, and prevent electrical accidents. If the vehicle has 4-wheel-drive, the first step is to remove the transfer case rock shield as shown in Diagram 2. Do not discard the OEM fasteners as they will be reused. You will also need to temporarily remove the passenger's side upper stabilizer bar mount bolt, and loosen the lower mounting bolt as shown in Diagram 3. This will allow the bar to swing out of the way. The next step is to remove the lower mounting bolt of the passenger's side rear shock as shown in Diagram 4 to allow the shock to swing out of the way. Unbolt the rear half of the OEM exhaust system and disengage the welded hangers from the rubber insulators to remove the muffler/tailpipe assembly from the vehicle. Loosen the V-band clamp that attaches the downpipe to the turbocharger as shown in Diagram 5. Do not overstress the clamp, or attempt to remove it. Once the clamp is loose, slip the V-band clamp off of the downpipe, and allow it to rest on the turbo housing. the remainder of the OEM exhaust can now be removed from underneath the vehicle.

***Step 2:*** Begin installation of the new system by fitting the new upper downpipe into position on the turbo reusing the OEM V-band clamp. Fasten the clamp snugly to rotate the downpipe when adjusting the complete system. Install the lower downpipe by fitting it the upper pipe and tightening the welded clamp.

Technical support: 1-800-959-9226 ext. 4500

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DIAGRAM 2

DIAGRAM 3

DIAGRAM 4

DIAGRAM 5

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***Step 2:*** Working rearward, you now have two choices. To retain the OEM emissions particulate filter, install the short converter extensions as shown using the supplied clamps. For a racing application without the filter, install the downpipe extension using a supplied 4.00" clamp and by fitting the welded hanger into the OEM rubber insulator. Crew Cab-Long Bed models use the 43" and 18" extension pipes. Crew Cab-Short Bed and Extended Cab-Long Bed models use only the 43" extension pipe. Other cab/bed layouts may need to trim the extension pipes for a proper fit. Once you have determined which extension pipes are needed, install them using the supplied clamps as shown. Install the muffler, tailpipe extension, and tailpipe in a similar fashion using the supplied clamps and by fitting the hangers into the rubber insulators.

***Step 3:*** With all components mounted loosely, adjust the system for overall aesthetics and clearance of frame & bodywork. (MAGNAFLOW recommends at least 1/2" of clearance between the exhaust system and any body panels to prevent heat-related body damage or fire.)

***Step 4:*** Once a final position has been chosen for the new system, evenly tighten all fasteners from front to rear. The supplied band clamps must be VERY tight to properly align the pipes and prevent leaks (Approximately 40ft-lbs). U-bolt clamps should be tightened to approximately 30-35ft-lbs. You can now reinstall the transfer case shield and stabilizer bar. Refer to Ford's shop manual for proper torque specifications of all mounts. Inspect all fasteners after 25-50 miles of operation and retighten if necessary.

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