



XDP X-Wheel Billet Compressor Wheel

Item Number: XD170293-B

**APPLICATION:**

99.5 – 03 Ford Power Stroke 7.3L



**PACKING LIST:**

1 – Billet Compressor Wheel

**TOOLS REQUIRED:**

Flat blade screwdriver

Ratchet/breaker bar

Torque wrench

Shop air & blow gun



Sockets: 5/16" 12-point, 7/16", 5/8", 3/4", 8mm, 17mm, 19mm.

Vice Grips

T handle socket wrench



Before removing any parts from your truck, please compare the items you have received with the packing list provided to verify that you have everything necessary to install your new XDP Compressor Wheel.



Ensure that the batteries are disconnected and that the engine is cool to the touch. **ALWAYS** wear eye protection when working on any vehicle.

**\* PLEASE READ INSTRUCTIONS PRIOR TO INSALATION \***

## Removal & Installation

**Step 1:** Remove air inlet hose (8mm) & charge air tube (7/16") from turbo. It may help to loosen the MAP sensor so that you can take the charge air tube out of the truck. Also remove the charge air tube from the intercooler to the intake 'Y' going into the engine (7/16").

**Step 2:** Unplug the wastegate controller on the front of the intake Y & disconnect the air intake heater wiring (10mm).

**Step 3:** Undo the clamps on the hoses from the intake Y to the engine & remove the Y (7/16"), being careful not to damage the o-ring between the turbo outlet & the Y. Put a rag over the air inlets to keep debris out of the engine.



**Step 4:** Remove the two nuts on the wastegate actuator (10mm). Use shop air to gently extend the actuator so that it extends enough to remove the studs from their mounts on the compressor housing & move the actuator to the side so it is out of the way. It is not necessary to disconnect the rod from the wastegate lever.

**Step 5:** Remove downpipe clamp (7/16") & shift downpipe away from turbo as much as possible.

**Step 6:** Remove the warm-up valve & it's housing from the back of the turbo by undoing the bolts (5/16" 12-point) & valve actuator rod. These bolts are often seized in place & can be difficult to remove.

**Step 7:** Remove the compressor cover (5/16" 12-point).



**Step 8:** Remove the stock compressor wheel (5/8"). Be careful not to bend the turbo shaft. The nut on the turbine end of the shaft is usually irregularly shaped as it is ground down for balancing. A 19 mm or 3/4" T handle socket wrench can be used, if this does not work vice-grips will have to be used.

**Step 9:** Clean the turbo shaft & lubricate it liberally with clean engine oil. Spin on the X-Wheel Compressor wheel (17mm), you should be able to spin it on by hand. If it does not go on freely chase the threads in the compressor wheel with a 1/4"NF tap. Torque the wheel to 85-115 INCH POUNDS. Make sure the wheel & shaft assembly spins freely after the wheel is installed.

**Step 10:** Reinstall the compressor cover and torque to 110 TO 130 in/lbs. Then reinstall the wastegate actuator using shop air to extend the rod again. Finally, reinstall the warm-up valve housing and torque to 140 to 170 in/lbs.



**NOTE:** If the warm up valve is installed before the wastegate actuator it's possible to jam the wastegate door open with the warm up valve housing.



**Step 11:** Reinstall intake Y, charge air tubes & MAP sensor. Reattach the wires for the wastegate controller and air intake heater. Reinstall air intake tube



**Step 11:** Reconnect the negative terminals on both of the vehicle's batteries followed by the positive terminals.

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