

Ported Housing Billet Wheel Installation



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IMPORTANT: Before starting installation, please be sure that all items which were supplied with the kit are accounted for.

Parts Required:

[Riffraff Diesel Billet Compressor Wheel - Ported Housing](#)

*[Garrett Compressor Housing O-Ring GZ-14-010](#)

*[Turbo Pedestal O-ring Kit GZ-9-003](#)



Recommended Tools:

-Metric wrenches and sockets

Installation:

- 1) Remove the turbo charger using these instructions: [99.5-03 Turbo Charger R&R Instructions](#)
- 2) Remove the Exhaust Back Pressure Valve (EBPV) from the turbine housing. (Fig 1)
- 3) Remove the wastegate E clip from the wastegate actuator rod end. (Fig 2)
- 4) Remove the nuts (2) holding the wastegate actuator onto the compressor housing using a 10 mm socket.
- 5) Remove the compressor housing bolts (5) using a 5/16" or 8 mm socket.
- 6) Remove the compressor housing from the turbo.
- 7) Using locking pliers, grab onto the turbine wheel hub securely too lock the turbo shaft to loosen the compressor wheel. (Fig 1)
- 8) Using a 16 mm wrench loosen the compressor wheel by turning counter-clockwise. Remove the wheel off of the shaft. (Fig 3)
- 9) Thread on the Anti Surge Compressor wheel onto the shaft. Tighten it down to 50-65 in-lb. **Caution: Do not over tighten the compressor wheel onto the shaft!** (Fig 4)
- 10) Reinstall the compressor housing. Use a new compressor housing o-ring ([GZ-14-010](#)). (Fig 4)
- 11) Install the bolts (5) and tighten evenly in a star pattern to 12 ft-lb.
- 12) Install the EBPV onto the turbine housing and install the bolts (7). Tighten to 30 ft-lb. (recommended to use high strength Loctite[®] thread locker on the bolts)
- 13) Reinstall the turbo using the instructions listed in step 1.

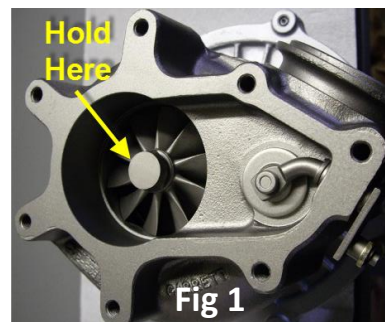


Fig 1



Fig 2



Fig 3

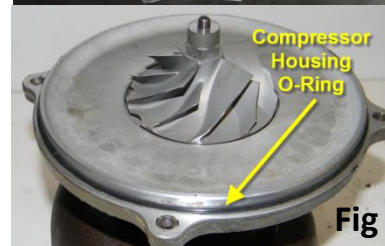


Fig 4

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Anti Surge Compressor Wheel Installation

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Instructions and pictures by Ken (woodnthings) on FTE.

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