



PI-384 • 7/15

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# Installation Instructions

## ipd HD Performance Turbo Compressor Bypass Valve

Fits 850/70/60/90/80 series  
with 5 cylinder TD04 Turbo Models  
ipd #124917



## SUGGESTED TOOLS

- 10mm wrenches

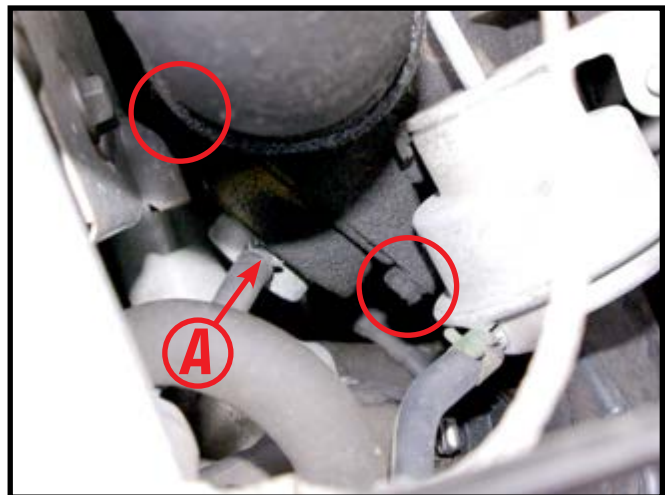
## SAFETY WARNINGS



- Use only the parts supplied by ipd to install this kit
- Check ALL the fasteners for tightness before and after road testing the vehicle
- Do not use air impact wrench when re-installing bolts as stripped threads may result

## REMOVAL

- 1 Locate the factory CBV and identify the three 10mm bolts that must be removed for access.



# INSTALLATION

- 2 Remove the vacuum **A** line in step 1 to the CBV.

- 3 Remove the lower bolt first then the two upper bolts.

Note the picture at right is with the turbo out of the car. This is simply for reference as the bolt locations are hard to see when the turbo is installed in the vehicle. The turbo does not need to be removed to replace the CBV.



- 4 With the CBV and cover removed, snap together your new CBV according to the image. Make sure the spring seats on both ends.



- 5 The original or standard spring is the lightest resistance. The blue spring is heavier and the red is the heaviest. It is preferable to use the lightest spring that accomplishes the purpose.

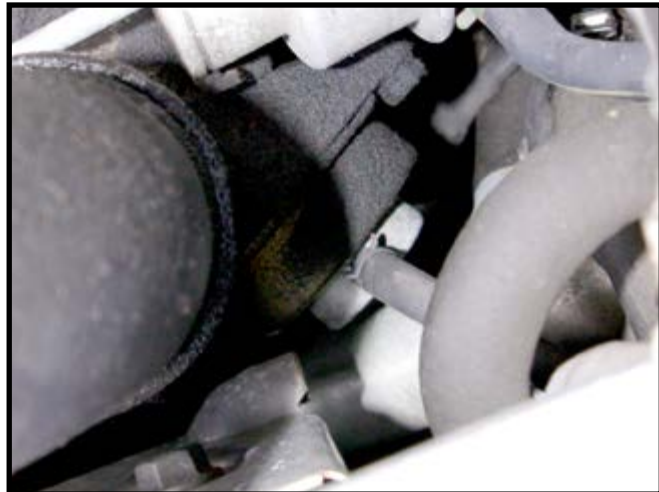
## The Purpose:

A spring that is too soft may allow boost to bypass at high load. A spring that is too stiff will cause the bypass to "chatter" or "surge" when off load (vacuum). The goal is for the bypass to remain closed under load and then bypass in one single motion under vacuum.

The standard (stock) spring should work well at stock (OE) boost levels. The blue spring is better for moderate performance levels (up to 15-16psi). The red spring is designed for aggressive boost performance (18-20psi). Vehicles running boost levels that are even higher should be equipped with an external high performance adjustable bypass and the OE diaphragm style bypass should be "disabled" or blocked to prevent leakage.

# INSTALLATION

- 6 Reinstall the new IPD HD CBV into the factory CBV cover and place it back on the turbo.



- 7 Install the 3 10mm bolts back into the cover and hand tighten.
- 8 Reinstall the vacuum line to the CBV.

# WARRANTY

## ***One Year Limited Warranty***

ipd warrants to the original purchaser that the parts manufactured and/or sold by ipd (the Product) is free from defects in material and workmanship under normal use. ipd warrants that the Product will perform substantially in accordance with the specifications set forth in the documentation provided with it. The above express warranties are made for a period of the lesser of 12,000 miles or 12 months from the date the Product is installed in your vehicle.

Any improper use, operation beyond capacity, substitution of parts not approved by ipd in writing, any alteration or repair by others, or any removal, defacing or altering of the identification shall void this warranty. There is no warranty on high-performance or race related parts due to the nature of usage.

The purchaser shall notify ipd at 1-800-444-6473 of any defect within the warranty period no later than thirty (30) days after purchaser discovers the defect. Should any failure to conform to this warranty appear within the warranty period, ipd shall, on notification, correct the nonconformity at its option, either by repairing any defective part, or by making available, FOB ipd's plant, a repaired or replacement part. The purchaser must insure any defective item being returned because ipd does not assume risk of loss or damage while in transit. No payment or reimbursement shall be made for installation, removal, transportation or other charges. The remedies set forth in this instrument are exclusive, and the liability of ipd with respect to any sale shall not exceed the price of the product on which the liability is based.

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