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BD Dodge CUMMINS Heavy Duty EXHAUST MANIFOLD

Installation Instructions

Application List

2007.5-2018 6.7L - I

6.7L - HE351/300 OE Turbo

1045965

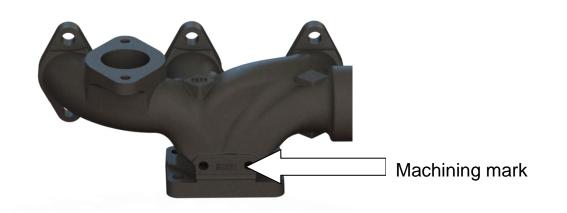
PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

Replaces Chrysler # 68027070AA, 68027070AB, 68210184AB Replaces Cummins # 5301441

KIT CONTENTS:

Please check to make sure that you have all the parts listed in this kit **before** you start the disassembly of your truck.

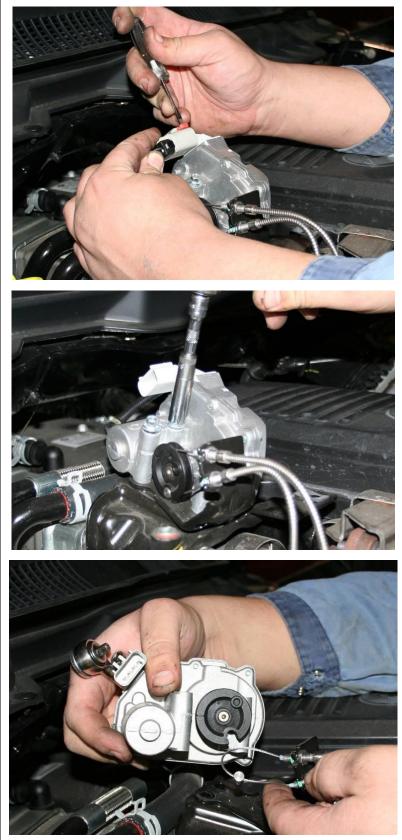




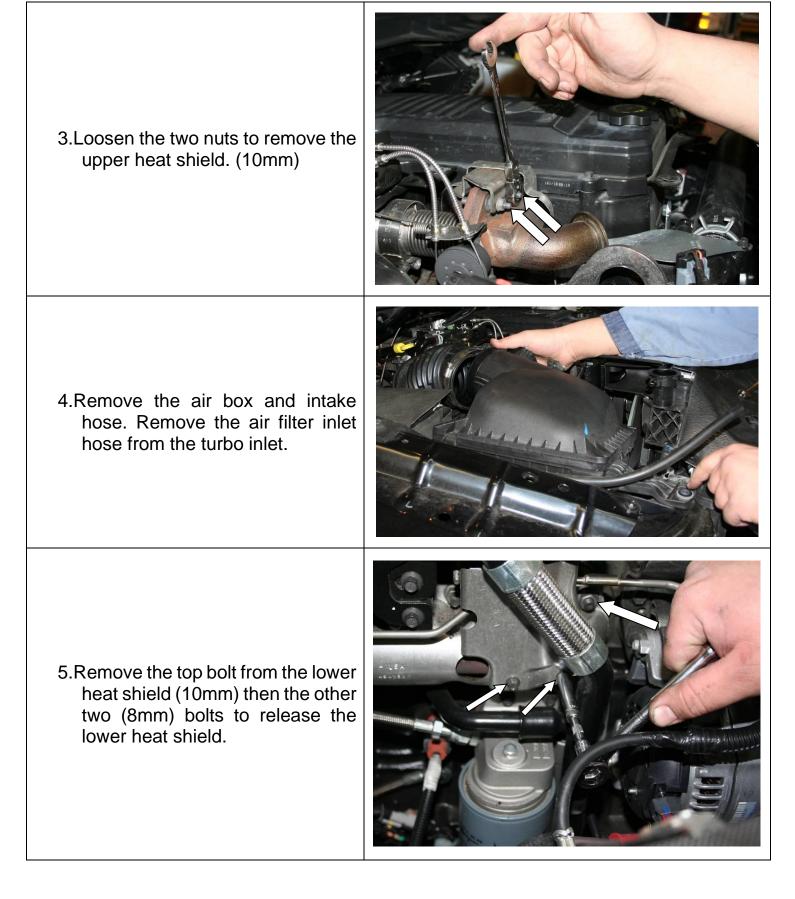
Options	
Description	Part #
Dodge 6.7L Throttle Sensitivity Booster 2007-2014	BD # 1057932
Exhaust Manifold Gasket Kit 2008-2018 OEM Turbo	BD # 1045992

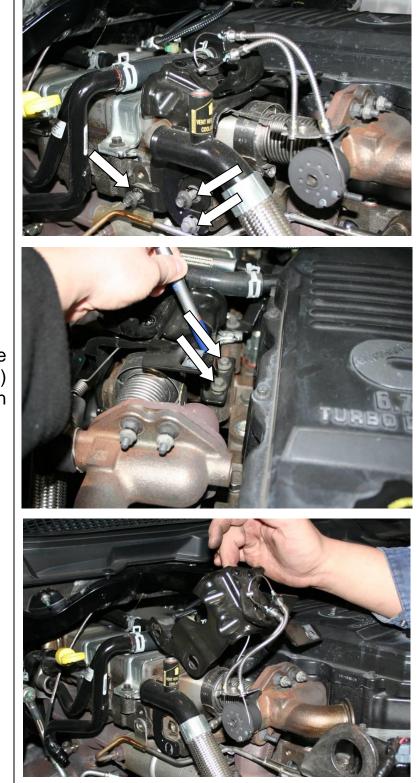
Removal

1.Disconnect the battery negative cables. Drain the coolant. Raise and secure vehicle on hoist.



2.Next unplug the stepper (servo) motor connector and remove the two bolts (8mm) that hold the motor to the stepper motor bracket. Then release the cable to remove the motor from the vehicle.





6.Remove the three bolts for the stepper motor bracket (10 mm) socket and prop the bracket on the cooler.

7.Loosen the clamp (11mm) that connects the EGR Flow Direction Valve to the cooler and slide the clamp towards the valve.

8.Using a (15mm) socket remove the outer nut for the exhaust flange of the flow valve at the manifold.

Using a socket with swivel or a wrench, remove the inner nut from the other side of the flange.





9.Remove the EGR flow direction valve from the vehicle.





10.Remove the bolt that holds the CCV hose to the cooler then disconnect the clamp at the valve cover to remove the hose assembly.



11.Remove the four bolts for the cooler and the nut that holds the transmission dip stick tube in place. Then nudge the tube out of the way to access the nut under the dip stick bracket.



12.Remove the EGR coolant hose from the cylinder head to the cooler. (All bolts should be already removed) the hose is held in by orings. Remaining coolant will drip out.

optional Plug the cooler to avoid further drainage.



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13.Remove the coolers two rear bolts that attach it to the exhaust system (15mm)



14.Prop the cooler above the studs and push towards the cab holding the other coolant hose to release the oring fitting to remove the cooler from the vehicle.



15.Remove the cooler mount bolts to the head (13mm socket) and remove the cooler mount from the vehicle.



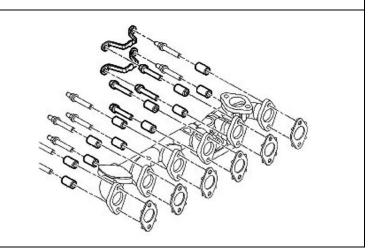
16.Remove the delta-P line bracket capscrew nuts and remove the delta-P line from the exhaust manifold and thermostat housing.

17.Remove the heat shield and noise panel (if equipped) from the exhaust manifold

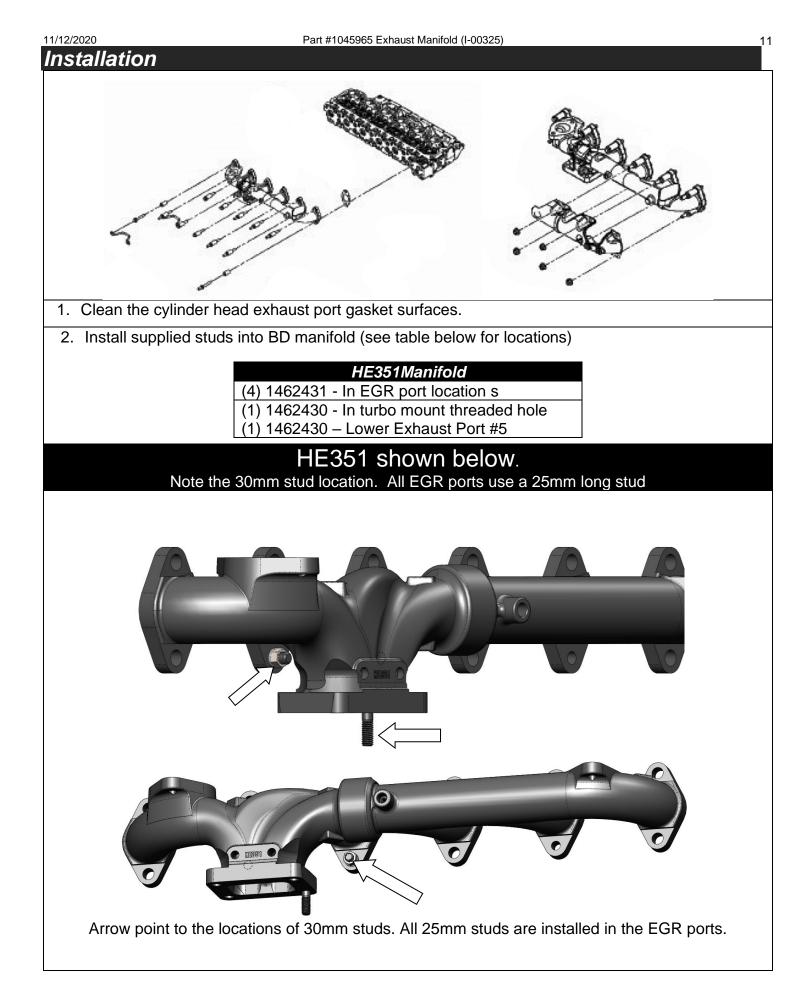
18.Remove the coolant lines from the turbo, then remove the oil feed & oil drain lines. Disconnect the down pipe. Disconnect the CAC at the turbo outlet. Remove the four turbocharger mounting nuts to remove the turbo.

19. Remove the two (2) rear exhaust manifold cap screw lock plates.

20.Remove the Cab Heater tubing/bracket from the exhaust manifold stud.



21.Remove the exhaust manifold.



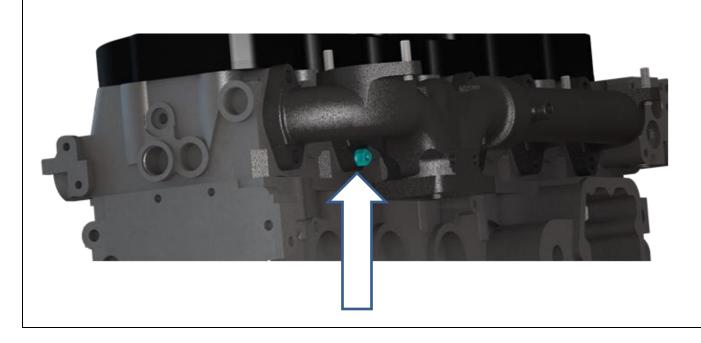
1. Install exhaust manifold with one factory bolts and the 1462430 studs to hold in place.

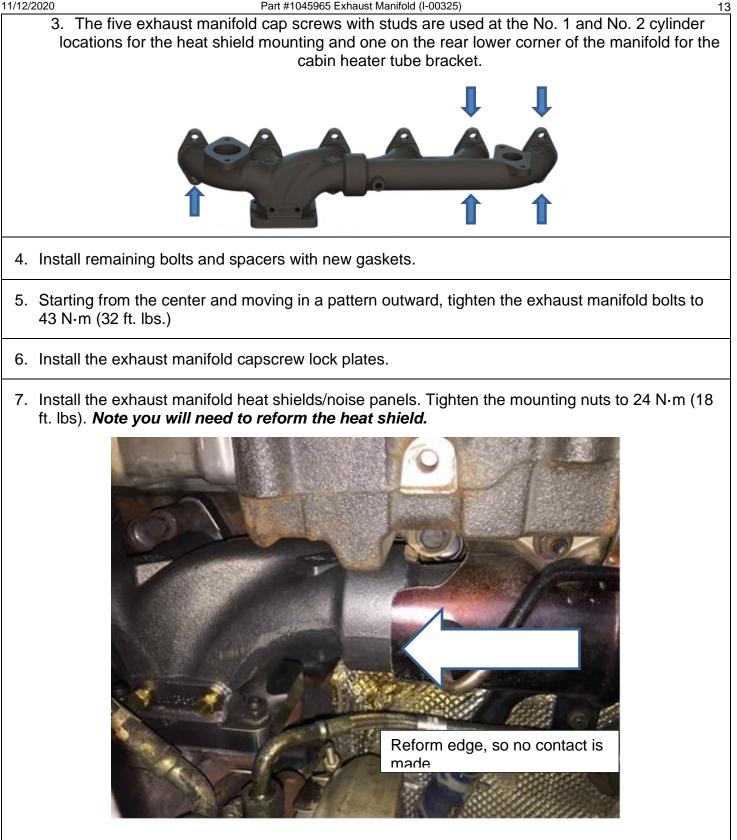
- a. Using one the supplied M10 x30mm studs, insert the stud at the lower mount of exhaust of cylinder 5. Lift the manifold into place as use this stud as the support. Don't forget to install the gasket.
- b. Then insert a factory bolt at the lower threaded mount of cylinder 2 with the gasket. Keep this bolt loose.
- c. You will then need to thread the supplied M10 nut on the M10 stud you installed earlier. It will be quite a challenge but can be done. You should be able to fit a boxed end wrench on the nut.

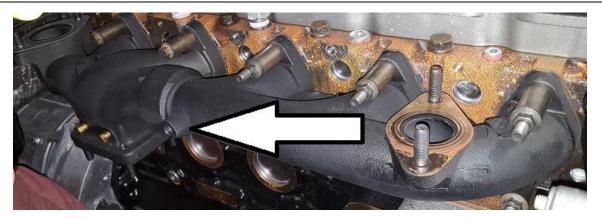
mounting location



Use stud & nut







Please note the M12 inverted flare port is for the OEM back pressure sensor.

- 8. Install the turbocharger.
- 9. Attach the mounting tabs and start the delta-P tube to exhaust manifold and thermostat capscrews.

10. Tighten the delta-P line bracket nut to 24 N·m (18 ft. lbs.).

11. Tighten the delta-P line bracket bolt to 10 N·m (89 in. lbs.).

12. Tighten the delta-P flare nuts to 10 N·m (89 in. lbs.).

13. Install the EGR cooler, using the existing hardware provided. Follow removal of EGR in reverse.

14. Install the air filter housing.

15. Re-fill the water system with coolant.

16. Connect the battery negative cables.

17. Start the engine to check for leaks.

RE-TORQUE ALL BOLTS AFTER AT LEAST ONE HEAT CYCLE