

Installation Manual
P/N 07510-ABIP



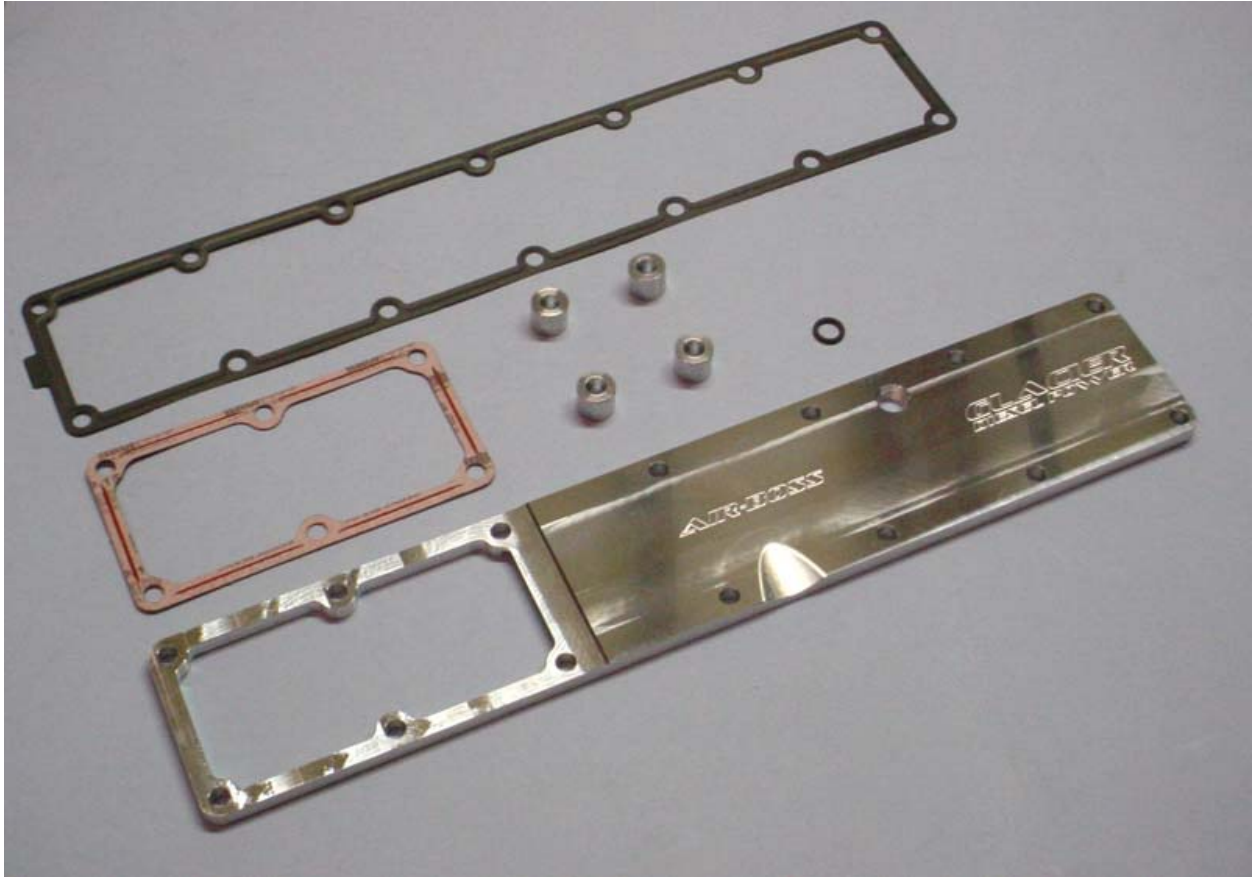
2007.5-10 DODGE CUMMINS
Air-Boss 67 Intake Plenum

Installation Instructions

P/N 07510-ABIP
GDP Air-Boss 67 Plenum Installation

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

Air-Boss 67 Intake Plenum Kit Contents



<u>Qty</u>	<u>Item Description</u>
1	Air-Boss 67 Billet Intake Plenum
1	Intake Plenum Gasket
1	Intake Manifold Gasket
4	Fuel Rail Spacers
1	Intake Temp Sensor O-ring

Please check your parts inventory against the above parts list before beginning your installation.

FUEL RAIL, INJECTOR LINE & STOCK PLENUM REMOVAL

CAUTION: Cleanliness cannot be overemphasized when handling or replacing diesel fuel system components. This especially includes the fuel injectors, high-pressure fuel lines and fuel injection pump. Very tight tolerances are used with these parts. Dirt contamination could cause rapid part wear and possible plugging of fuel injector nozzle tip holes. This in turn could lead to possible engine misfire.

Before assembly, examine each part for dirt, grease or other contaminants and clean if necessary. When installing new parts, lubricate them with clean engine oil or clean diesel fuel only.

1. Disconnect the battery negative cables.
2. Remove the charge air cooler outlet tube connection from the intake manifold.
3. Remove the engine oil dipstick tube mounting bolt.
4. If needed, remove dipstick support at fuel filter housing.
5. Disconnect the air grid heater power cable at the cable mounting stud.

Caution!!! If a grid heater will **not** be re-installed this wire **must** also be disconnected at the relay on the passenger side battery tray to avoid a short circuit!!!

6. Remove the engine wiring harness support bolt from the intake manifold.
7. Remove the six (6) intake manifold mounting bolts.
8. Remove the intake manifold.
9. Remove the high pressure fuel lines and fuel rail.

CAUTION: When loosening or tightening high-pressure lines at the cylinder head, use a back-up wrench on the crossover tube nut at the head. Do not allow fitting to rotate. Loss of crossover tube torque will result.

10. When removing fuel line at No. 6 cylinder, a bracket (1) is located above fuel line connection at cylinder head. Two bolts secure this bracket to rear of cylinder head. The upper bolt hole is slotted. Loosen (but do not remove) these 2 bracket bolts. Tilt bracket down to gain access to No. 6 fuel line connection.

NOTE: It is possible to remove only lines 1-4 and gently flex the rail up high enough to remove the stock intake plenum/grid heater. Caution must be used to not bend the number 5 & 6 injector lines if this method is used!!!

11. Remove engine lift bracket (if necessary).
12. Carefully remove each fuel line from engine. Note position of each while removing.
13. Disconnect plenum air temperature sensor connector.
14. Remove the intake plenum air temperature sensor.
15. Remove the remaining intake plenum cover-to-cylinder head bolts.
16. Remove the intake plenum cover and gasket. Keep the gasket material and any other material out of the air intake!
17. Clean the cylinder head sealing surface.

AIR-BOSS 67 INTAKE PLENUM INSTALLATION

18. Using the new gasket, install the Air-Boss 67 plenum.
19. Install the cover-to-cylinder head bolts that do not hold down the fuel rail. Tighten the bolts to **18 ft. lbs.** torque.
20. Install the intake plenum air temperature sensor. The stock sensor has a crush washer and can be reused. If you so choose we have included an O-ring to replace the crush washer on the sensor. To install using the supplied O-ring remove the stock crush washer by cutting with a pair of wire cutters and roll on the new O-ring.
21. Check torque on the high pressure crossover tube connector nut at the cylinder head. **Torque nut to 50 N·m (37 ft. lbs).**

Installing the High Pressure Rail and Injector Lines

22. Position fuel rail on top of the Air-Boss 67 using the four (4) supplied rail spacers. Install the four (4) mounting bolts and tighten bolts to 24 N·m (18 ft. lbs) torque.

CAUTION: Anytime a high-pressure line is removed from the engine, its fuel connector nut at the cylinder head must first be retorqued. Refer to Torque Specifications.

23. Position proper fuel line to proper injector on engine. Tighten fittings hand tight at both ends of line.
24. Tighten fuel line at cylinder head. **Torque nut to 30 N·m (22 ft. lbs).**
25. Tighten fuel lines at fuel rail. **Torque nut to 37 N·m (27 ft. lbs).**

26. If removed, install engine lifting bracket (1) and bolt. **Torque nut to 77 N·m (56 ft. lbs).**
27. Connect the plenum air temperature sensors electrical connector.
28. Using the supplied gasket install the intake manifold.
29. Install oil dipstick tube support at fuel filter housing (if removed).
30. Install the engine oil dipstick tube and mounting bolt.
31. Position the charge air cooler outlet tube onto the air inlet housing. Tighten the clamps to **100 in. lbs.** torque.
32. Attach the engine wire harness to the air inlet housing.
33. Connect the battery negative cables.
34. Prime the fuel system. Start vehicle and check for leaks.

Installation complete! Enjoy the new power and lower EGT's of the Air-Boss 67 high rise intake plenum!!!

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