

Installation Manual
P/N 07509-350-GRK



2007.5-09 DODGE CUMMINS
Arctic-Heat Grid Relocation Kit

Installation Instructions

P/N 07509-350-GRK
GDP Arctic-Heat Grid Heater Installation

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

Arctic-Heat Grid Heater Kit Contents



<u>Qty</u>	<u>Item Description</u>
1	3.50" Arctic Heat Boost Tube
1	Grid Heater
2	Grid Heater Gaskets
4	M10 x 80mm Plated Bolts with Nuts
3	3.5" Clamp
1	3.0" Clamp
1	3.00" x 3.50" Silicone Coupler
1	3.50" Silicone Coupler
1	30" Ground Wire
1	Intake Manifold Gasket

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

Arctic-Heat Grid Heater Installation

1. Disconnect the battery negative cables.
2. Remove the charge air cooler tube connection from the intake manifold.
3. Remove the engine oil dipstick tube mounting bolt.
4. Remove the engine wiring harness support bolt from the intake manifold.
5. Remove the six (6) intake manifold mounting bolts.
6. Remove the intake manifold.
7. Remove the charge air cooler tube connection from the intercooler outlet.
8. Remove the stock charge air cooler tube from the vehicle.
9. Disconnect the stock grid heater power cable at the cable mounting stud on the intake plenum.

Assembling the Arctic-Heat Grid Heater



Photo 1

Refer to photo 1 for orientation in the following steps.

10. **Loosely** assemble the unit as shown in photo 1.
11. Finger tighten the bolts evenly.
12. Using a criss-cross pattern, evenly tighten the bolts and nuts to 25 ft-lbs. Cummins graphite gaskets have very little compression ability.

Even tightening is critical for leak free operation

13. The ground wire comes pre-installed. If you need to change the orientation of the ground wire loosen the bolt. **DO NOT FULLY REMOVE THIS BOLT.** There are small parts on the inside of the heater which may fall out of the bolt is removed.
14. If needed, change the ground wire orientation. Ground wire must be facing the outside of the vehicle when tube is installed.
15. Using the supplied 3.00" x 3.50" silicone reducer and clamps loosely attach the boost tube to the intercooler outlet. Do not tighten at this time.
16. Route the new ground wire under the fuse box and connect to the battery negative post as shown in photo 2.



Photo 2

17. Route the stock grid heater power wire over to the new Arctic-Heat grid heater.
18. Connect the stock power wire to the positive post at the top of the Arctic-Heat grid heater and tighten.
19. Loosely install the 3.50" straight silicone coupler on the end of the new Arctic-Heat boost tube.
20. Install the intake manifold using the supplied gasket.
21. Connect the boost tube to the intake manifold using the supplied clamps and tighten.
22. Tighten the intercooler to boost tube connection at the intercooler outlet.
23. Verify clearance between the new grid heater and the power steering hoses. If needed, flex lines down **gently** to gain clearance.
24. Install the engine oil dipstick tube and mounting bolt.
25. Attach the engine wire harness to the air inlet housing.
26. Connect the battery negative cables.

Installation complete! Enjoy the easy cold weather starting provided by the Arctic-Heat grid heater relocation kit!

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