

Pure Air Plus™ / PURest™ Air Dryers Heater Replacement Kit



Installation Guide

DQ6011 - 12 Volt - Date Code Prior to 9/97

DQ6012 - 24 Volt - Date Code Prior to 9/97

DQ6013 - 12 Volt - Date Code After 8/97

DQ6014 - 24 Volt - Date Code After 8/97

WARNING:

When working on air system components the following precautions should be observed:

1. Stop engine when working under a vehicle. Always block the vehicle wheels to prevent a fore or aft roll. Bleeding off system pressure may cause the vehicle to roll. Keep hands away from brake chamber push rods and brake adjusters; they may apply suddenly as system pressure drops.
2. Never connect or disconnect a hose or line containing air pressure. It may whip as air escapes. Never remove a component or a pipe plug unless you are certain all system air pressure has been exhausted.
3. Never exceed recommended working air pressure and always wear safety glasses when working with air pressure. Never look directly into component ports or direct a pressurized air flow at anyone.
4. Never attempt to disassemble a component until you have read and understood all recommended procedures. Some components contain powerful springs and injury can result if not properly disassembled. Use only proper tools and observe all safety precautions pertaining to the use of those tools.

Installation Instructions

Each Kit contains one thermostatically controlled heater element, one high-temp purge valve shield, one gasket and heat conductive grease.

Note: Servicing of heater assembly can be accomplished without removing air dryer from the vehicle - provided there is adequate clearance below the dryer.

1. Disconnect leads of the heater assembly being replaced. If ambient temperature is <32°F, disconnect the battery or make sure the ignition switch is in OFF position.
2. Remove the three (3) screws from the purge valve shield and retainer. (Save these components for reassembly.)

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Pure Air Plus™
Air Dryer



PURest™
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Installation Instructions

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3. Remove purge valve shield and retainer. Discard the plastic purge valve shield and gasket. (Save the retainer for reassembly.)
4. Remove old heater assembly and discard.
5. Apply the heat conductive grease in the cavity recess in which the heater assembly is inserted.
6. Install new heater assembly in the cavity. (The raised thermostat on the heater body must be placed in the depressed bore in the dryer body.)
7. Install new gasket, high-temp purge valve shield and shield retainer. Install the three hex head screws. Torque to 30-50 in. lbs. Failure to replace the old plastic purge valve shield with the new high-temp purge valve shield included in this kit can result in heat damage to the air dryer.
8. Connect heater wires - black wire to vehicle electrical system and white wire to a good ground.

Operational Checks

At temperatures above freezing, the heater circuit will be open. If an operational check is required, a means must be available to reduce the temperature of the heater thermostat to below freezing (<32°F).

1. After installation of the heater is completed, apply ice or other cold source to the heater plastic body area to lower the temperature of the thermostat.
2. Connect a continuity meter or a similar device to the heater leads.
3. When the heater thermostat drops to about freezing, the continuity meter should indicate a closed circuit.
4. Remove the cold source from the heater plastic body area.
5. When the heater thermostat reaches about 60°F, the continuity meter should indicate an open circuit.