

Pure Air™ Dryer Heater Assembly Repair Kit



Installation Guide

RN60N - 12 Volt
RN60P - 12 Volt
RN60AC - 24 Volt

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.

Servicing the Pure Air™ Dryer Heater Assembly

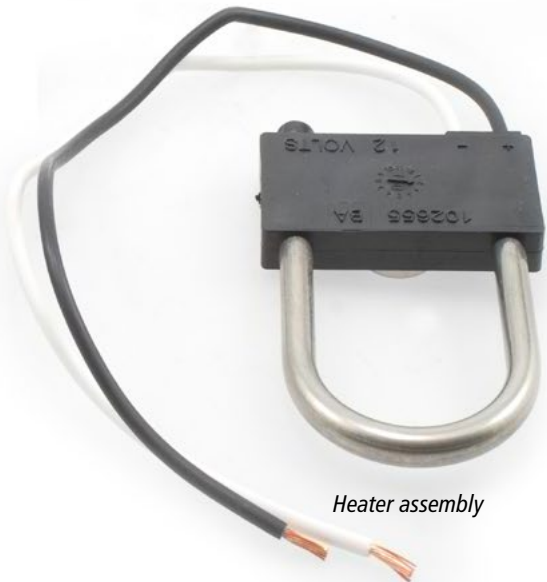
Note: The Pure Air™ Dryer can remain installed on the vehicle while the heater assembly is serviced.

1. Disconnect electrical leads from the heater. If not obvious, mark which lead is positive and which lead is negative (ground).
2. Remove the cap screw retaining the heater cover. Remove the cover and discard.
3. Remove the heater assembly by prying up on the plastic portion of the assembly with a small screwdriver. Make sure the groove where the new heater is to be installed is clean and void of any foreign objects.

Pure Air™ Heater Assembly Repair Kit



Cover



Heater assembly

Heater Assembly Repair Kit Contents

Part No.	Description of Contents
RN60N (12 Volt)	One Each - Heater Assembly with LED-12 Volt, Cover, Screw
RN60P (24 Volt)	One Each - Heater Assembly with LED-24 Volt, Cover, Screw
RN60AC (24 Volt)	One Each - Heater Assembly with LED-24 Volt, Cover, Screw

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Installation Instructions

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4. Line up the new heater assembly over the cavity and tap the heater portion of the assembly until the heater is approximately 1/32" below the surface. This can best be accomplished by using a 1/4" or 1/2" thick bar about three inches long. Lay the bar over the aluminum portion of the heater and tap the bar until the aluminum portion is flush with the top surface. Then turn the bar on edge and tap until the heater is at proper depth (1/32").
5. Place the new cover over the heater and secure with the new cap screw. Torque to 30-50 in. lbs.
6. Attach the wires to the leads which were disconnected, making sure that the leads are connected properly. (Positive to Positive and Negative to Negative)

Operational Checks

The heater thermostat will close as the temperature decreases to $45 \pm 8^{\circ}\text{F}$ and opens as temperature increases to $65 \pm 10^{\circ}\text{F}$. For heaters with an LED, the LED will remain illuminated while the heater is "OFF". The operation of the heater, with or without the LED, can be checked as follows:

1. After installation of the heater is completed, apply ice or cold source to the heater plastic body area to lower the temperature of the thermostat.
- 2A. For heaters with LED, the LED will turn off after a few minutes.
- 2B. For heaters without LED, a continuity check across the leads should indicate a closed circuit.
3. Remove the cold source from the heater plastic body area.
- 4A. For heaters with LED, the LED will turn on after the temperature rises to $65 \pm 10^{\circ}\text{F}$.
- 4B. For heaters without LED, a continuity check across the leads should indicate an open circuit after the temperature rises to $65 \pm 10^{\circ}\text{F}$.

Troubleshooting Guide

Condition	Probable Cause	Remedy
LIGHT IS ALWAYS ON Temperature above 45°F	Normal operation	No action required
LIGHT IS ALWAYS ON or HEATER IS ALWAYS OFF Temperature below 35°F	Thermostat is stuck open	Replace heater assembly
LIGHT IS ALWAYS OFF Temperature above 45°F	1. No electrical supply to the heater 2. Defective ground 3. Defective heater	1. Trace supply wire and correct 2. Trace and correct 3. Replace heater assembly
LIGHT IS ALWAYS OFF Temperature below 35°F	Normal operation	No action required