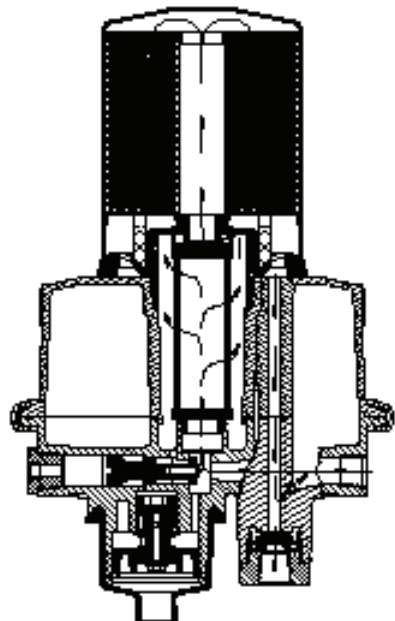
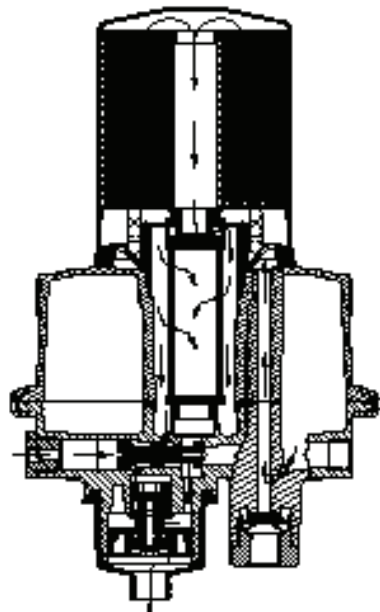


Pure Air *Plus* Air Dryer Troubleshooting Guide



DRYING CYCLE



PURGE CYCLE

SERVICE KITS

- DQ6020 Major Repair Kit** (Includes Purge, Turbo Saver and One-Way Check Valve Assemblies.)

- DQ6032 Coalescing Filter Kit**

- DQ6026 Desiccant Kit** (Includes Desiccant Cartridge, Coalescing Filter, Heater Cover and Relief Valve.)

- DQ6011 12-Volt Heater Kit**
(For dryers date coded prior to 9-97)

- DQ6012 24-Volt Heater Kit**
(For dryers date coded prior to 9-97)

- DQ6013 12-Volt Heater Kit**
(For dryers date coded after 8-97)

- DQ6014 24-Volt Heater Kit**
(For dryers date coded after 8-97)

- DQ6023 Shield Kit**

- DQ6024 Clamp Band Kit**

- KN31527 Relief Valve**

Commercial Vehicle Systems

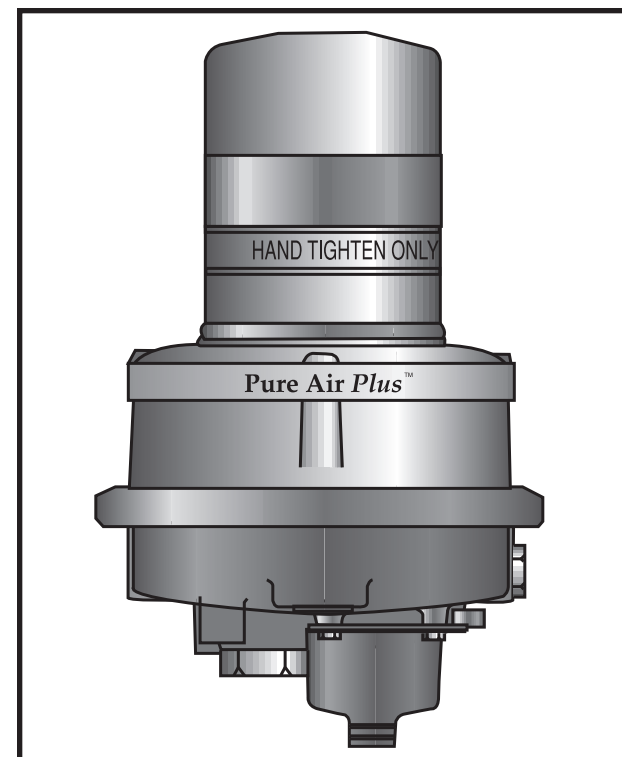
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Rev. 12/99

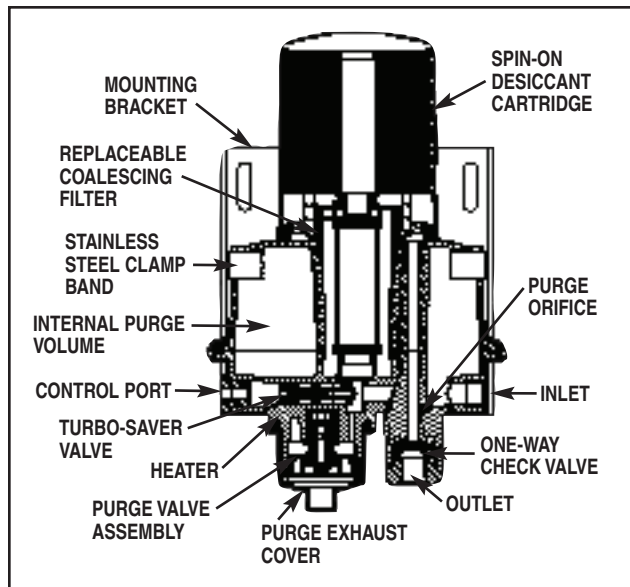


Pure Air *Plus* Air Dryer Troubleshooting Guide

Pure Air Plus Air Dryer Troubleshooting Guide

SEE  WARNING — BEFORE ATTEMPTING TO SERVICE AN AIR DRYER.

Problem	Cause	Remedy
Long Purge Cycle (More Than 40 Seconds).	One-Way Check Valve Is Defective.	Service Check Valve With Kit #DQ6020.
	Partially Plugged Purge Orifice.	Clean Orifice With .050 Drill Bit Or Wire.
Slow Wet Tank Build-Up.	Plugged Filter And/Or Desiccant.	Service Dryer With Kit #DQ6026.
Water Appears In The Wet Tank.	Desiccant Is Full Of Dirt.	Service Dryer With Kit #DQ6026.
	No Purge Cycle. Purge Orifice Is Blocked.	See "No Purge Cycle" Section. Clean Orifice With .050 Drill Bit Or Wire.
Relief Valve Opens During Operation.	Faulty Relief Valve.	Replace Relief Valve With Part #KN31527.
	Line Restrictions.	Replace The Line Between The Dryer And The Wet Tank If Damaged.
Purge Cycle Causes Compressor Cut-In.	Leaking Purge Valve Seals.	Replace Purge Valve With Kit #DQ6020.
	Oversized Or Damaged Line Between Dryer And Governor.	Line Should Be 3/16 I.D. Maximum. Replace If Oversized Or Damaged.



WARNING

Stop engine. Block wheels against a fore or aft roll. Bleeding off system air pressure may cause the vehicle to roll.

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 all system air pressure has been exhausted.

Never exceed recommended working air pressure and always wear safety glasses.

Use only proper tools and observe all precautions pertaining to the use of those tools.

Problem	Cause	Remedy
No Purge Cycle.	Defective Governor. The Line Between The Governor And The Dryer Is Restricted Or Frozen. Purge Valve Is Stuck.	Disconnect Line From The Governor. Air Should Come From The Governor Line When The Compressor Unloads. If Not, Repair/Replace The Governor. Insure Line Is Clear Of Debris And/Or Water (Ice). Remove Purge Valve And Replace With Kit #DQ6020.

Pure Air Plus Air Dryer Troubleshooting Guide

SEE  WARNING — BEFORE ATTEMPTING TO SERVICE AN AIR DRYER.

Problem	Cause	Remedy
Air Is Leaking Constantly From Purge Valve.	Purge Valve Seal Is Damaged.	Replace Purge Valve With Kit #DQ6020.
	Foreign Particles On Valve Seat.	Remove Purge Valve And Clean.
	Purge Valve Is Frozen.	Inspect Heater (See Section On "Heater Problems").
Heater Is Inoperative.	Governor Is Faulty.	Disconnect Line To Purge Valve. If Purge Air Stops And Air Comes From Governor Line, Repair Or Replace Governor.
	Bad Unloader In Compressor.	Replace.
Heater Is Inoperative.	Fuse Is Blown.	Check Fuse. If Blown, Replace With 8-10 AMP Fuse.
	Broken Wires Or Poor Connections. Defective Element Or Thermostat.	Repair Or Replace Wiring To The Heater. Replace Heater Assembly With Heater Kit. (See Back Page For Heater Kit Descriptions).
Heater Stays On Continuously.	Defective Thermostat.	Replace Heater Assembly As Specified Above.