

# SKF Turbo-2000

## Fall maintenance recommendations

TT 08-029

August 2008

### Tech tip

As a matter of good practices, a fall inspection and preventative maintenance program of the air dryer will prepare your vehicle for the winter ahead. Follow the recommendations below to gain the full benefits from an air dryer designed to handle the most severe conditions.

The function of a Turbo-2000 is to collect and remove solid, liquid and vapor contaminants from the air system and deliver clean, dry air to the reservoir tanks. These tanks provide air to the components of the brake system as well as any other air actuated componentry on the vehicle.

Turbo-2000 comes in two distinct variations. The 500 (ie: 620500) series is designed for Holset E-Type compressors. E-Type compressors have special plumbing considerations that the E-type compatible SKF air dryers contain. The Holset E-Type compressors are mainly found on Cummins engines and some Mack but have not been an OE option for several years. The 600 (ie: 620600) series should be used on all other compressors.

**WARNING: Please read and follow these safety instructions.**

- Before performing any test and/or isolating the air dryer, the vehicle's wheels must be chocked making sure the vehicle will not roll before releasing brakes.
- Never work under a unit supported only by a jack. Always support the vehicle with stands.
- Stop engine when working under a vehicle.
- Never remove a component or a pipe plug unless you are certain all system air pressure has been exhausted.
- Never connect or disconnect a hose or line containing air pressure.
- Never exceed recommended working air pressure.
- Never attempt to disassemble an air dryer until you have read and understood all recommended procedures.
- Use only proper tools and observe all precautions pertaining to the use of those tools.



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# Fall maintenance recommendations-cont.

## Fall maintenance recommendations

### System checks should be done regularly and include:

- Check for moisture in air system by opening reservoirs, drain cocks or valves. If moisture is present, replace desiccant cartridge T224. If contaminants are present, use service kit 619340 or 619360 for additional filtration performance and service compressor as needed.
- Check for air leak by building system to cut-out pressure. The air dryer should not unload again while at idle. If it unloads within 4 to 5 minutes, there is a slow leak that needs to be addressed. Spray soapy water at fittings around the air dryer, wet tank and compressor. Repair as needed. Note that an E-Type dryer on a non-Holset compressor could leak air out the intake of the compressor. There is a yellow sticker on the air dryer that indicates E-Type or non-E-Type. A leak less than 4 minutes will likely be the result of a non-functioning valve or major leak in air system. If soapy water does not reveal the leak, replace air dryer unloader valve #235, Turbo valve #228, and check valve #238. Service kit 619340 includes all of these valves plus desiccant cartridge T224. Service kit 619360 includes additional filtration with T224-P.
- Check heater element. Remove heater rod from dryer and with ignition off, use an ohmmeter to check resistance. The resistance for a 12V 75 watt heater is 1.8 watts with 6.6 amp draw and 24V 75 is 7.4 watts with 3.2 amp draw. If no ohmmeter is available, expose air dryer to temperature below 32° F, place hand on bottom portion of air dryer and feel for warmth.

### Service intervals:

Many factors go into the service interval for an air dryer. Conditions where annual service is needed are:

- Frequent braking – transit, mountainous driving, refuse
- High air volume use – special needs buses, cement mixers, central tire inflation vehicles
- Older compressors – vehicles with old compressors will experience more oil blow-by conditions
- Need for clean air supply – ABS brakes, critical air actuated componentry

Vehicles in vocations with low air use, should be inspected regularly and serviced every 2 – 3 years.

### Service to the Turbo-2000 should include:

- Replace Desiccant cartridge T224/upgrade contaminant filtration with T224-P
- Clean port area and replace purge valve #235
- Clean bottom cap and replace turbo valve #228
- Clean port area and replace check valve #238
- All above are included in 619340 or 619360 for T224-P

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