



# Installation Instructions

KIT  
PC. No. 265074

## AD-4 AIR DRYER MODIFICATION KIT

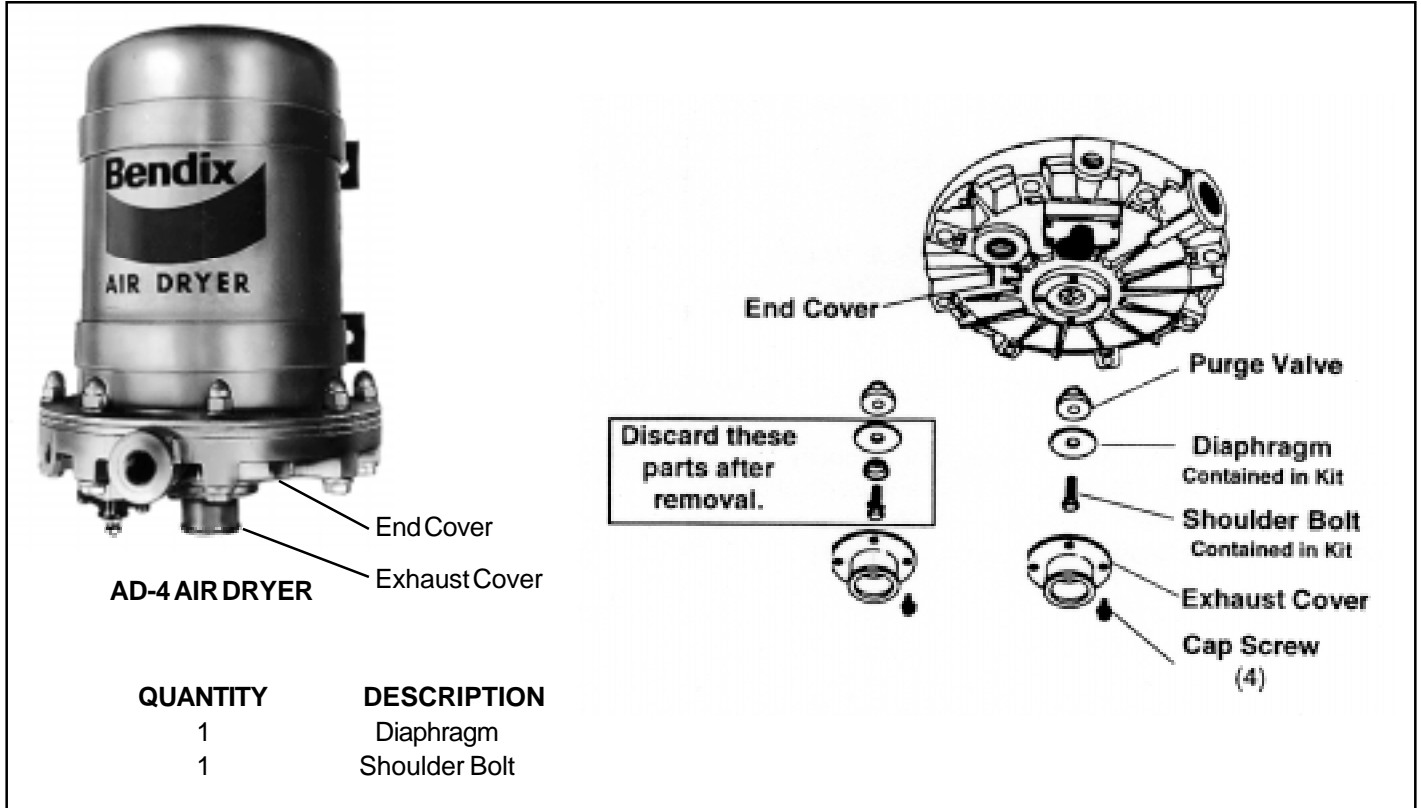


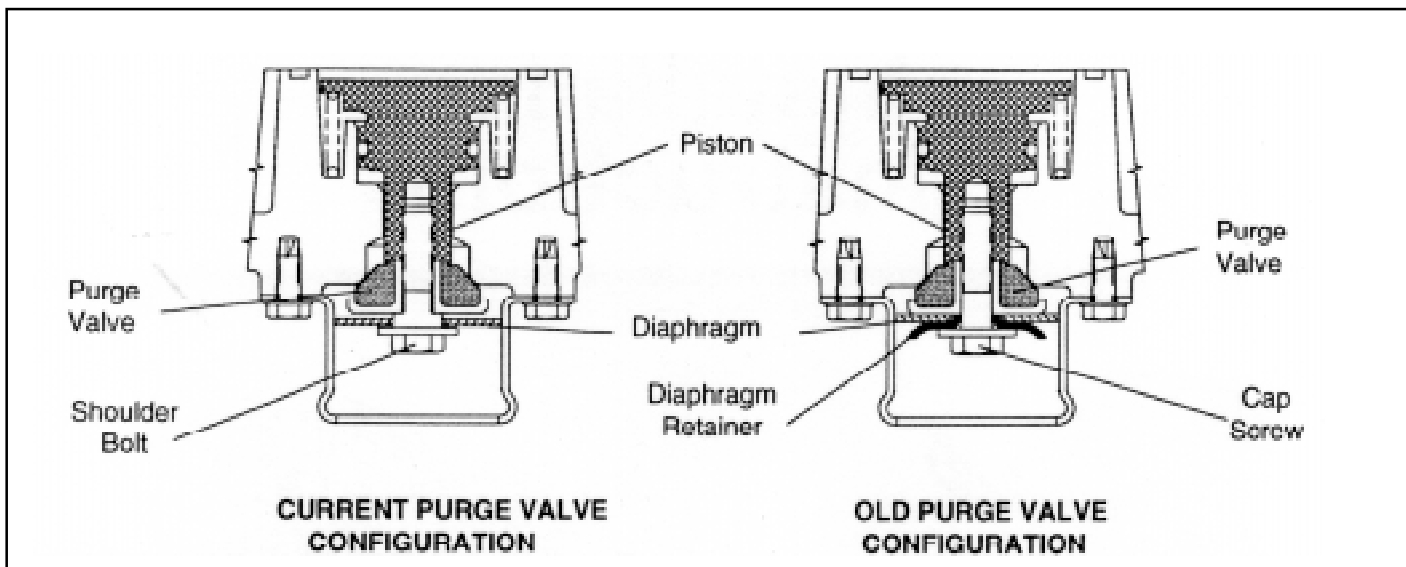
Figure 1 This kit consists of the parts listed above.

### **IMPORTANT! PLEASE READ AND FOLLOW THESE INSTRUCTIONS TO AVOID PERSONAL INJURY OR DEATH:**

When working on or around a vehicle, the following general precautions should be observed at all times.

1. Park the vehicle on a level surface, apply the parking brakes, and always block the wheels.
2. Stop the engine when working around the vehicle.
3. If the vehicle is equipped with air brakes, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle.
4. Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in manner that removes all electrical power from the vehicle.
5. When working in the engine compartment the engine should be shut off. Where circumstances require that the engine be in operation, **EXTREME CAUTION** should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated, or electrically charged components.

6. Never connect or disconnect a hose or line containing pressure; it may whip. Never remove a component or plug unless you are certain all system pressure has been depleted.
7. Never exceed recommended pressures and always wear safety glasses.
8. Do not attempt to install, remove, disassemble or assemble a component until you have read and thoroughly understand the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
9. Use only genuine Bendix replacement parts, components, and kits. Replacement hardware, tubing, hose, fittings, etc. should be of equivalent size, type, and strength as original equipment and be designed specifically for such applications and systems.
10. Components with stripped threads or damaged parts should be replaced rather than repaired. Repairs requiring machining or welding should not be attempted unless specifically approved and stated by the vehicle or component manufacturer.
11. Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.



**Figure 2 Purge Valve Retainer Configurations**

**VEHICLE PREPARATION**

1. Park the vehicle on a level surface and prevent movement by means other than the brakes, such as chocking the wheels.
2. Drain ALL reservoirs to 0 p.s.i. (0 kPa).

**DISASSEMBLY (Refer to Figure 1)**

**IMPORTANT NOTE:** This kit is intended to modify old versions of the AD-4 purge valve and exhaust diaphragm retention bolt. Current versions of the AD-4 use a shoulder bolt and no diaphragm retainer (refer to figure 2).

1. Remove the 1/4" cap screw from the bottom of the purge valve (inside the exhaust cover). It is not necessary to remove the exhaust cover to access the cap screw. Remove the diaphragm retainer, diaphragm and purge valve. Discard the cap screw, diaphragm and diaphragm retainer.

**ASSEMBLY (Refer to Figures 1 & 2)**

1. Place the diaphragm, and purge valve on the 1/4" shoulder bolt, provided in this kit. Note: Make certain to center the hole through the diaphragm over the shoulder of the shoulder bolt. See figure 2.

**IMPORTANT NOTE:** Current versions of the AD-4 use a shoulder bolt and no diaphragm retainer. The diaphragm retainer is required if a shoulder bolt is not in use to prevent "pinching" the diaphragm between the head of the cap screw and the purge valve, refer to figure 2.

2. Install the 1/4" shoulder bolt, with parts on it, through the exhaust cover and into the bottom of the piston. Torque to 60-80 inch pounds. See figures 1 & 2.
3. Test the air dryer as outlined under the Preventive Maintenance and Checking Serviceability section of Service Data Sheet SD-08-2407.

