



Installation Instructions

KIT
PC. No. 284057

FIELD MAINTENANCE KIT AS-1 AIR STARTER VALVE

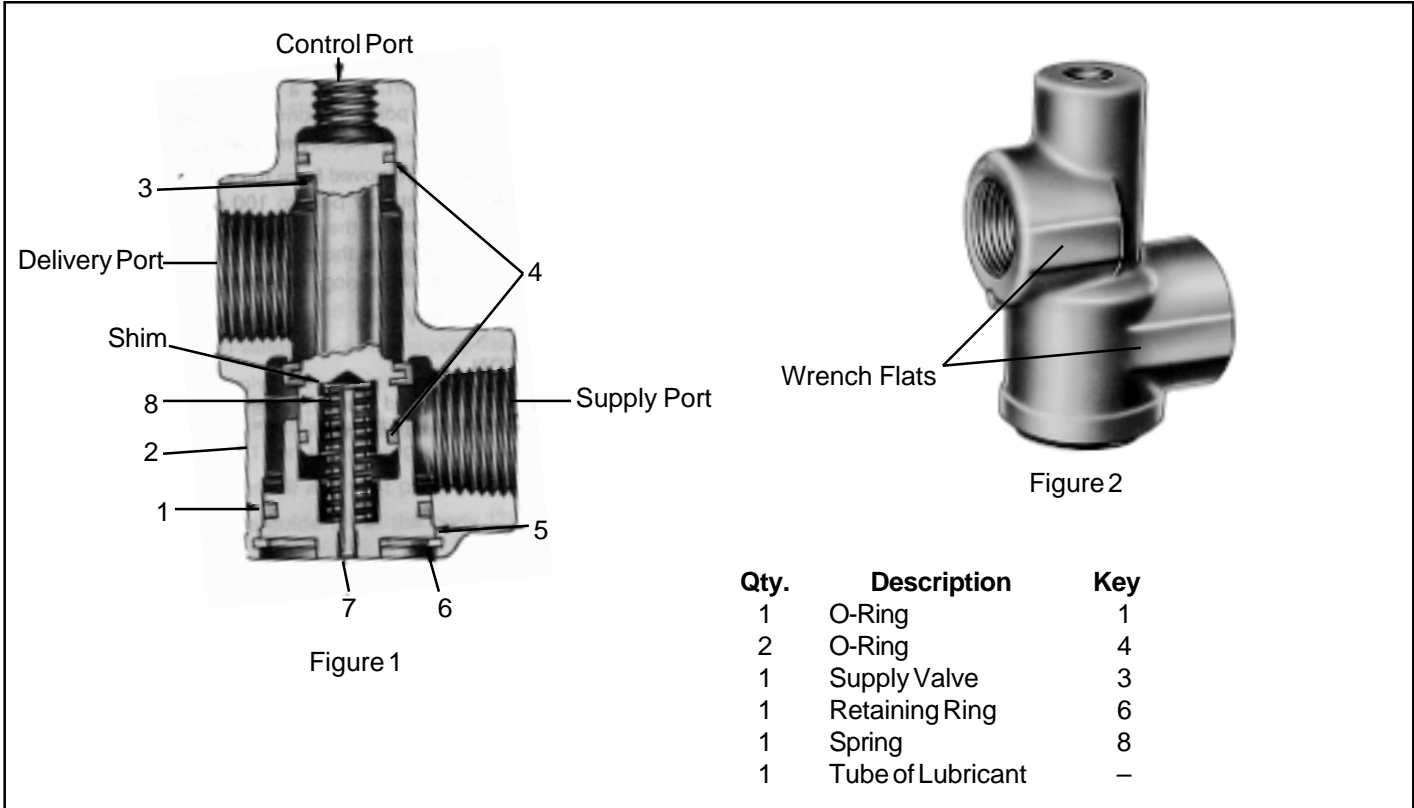


Figure 1 This kit consists of the parts listed above.

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.

REMOVAL

NOTE: Depending upon installation, we recommend that the air starter valve be serviced without removing from reservoir. In installations where complete valve removal is necessary, caution should be used so as not to damage valve body during removal. Use wrench flats (Figure 2).

1. Park and hold vehicle on a level surface by means other than air brakes.
2. Drain air pressure from all reservoirs.
3. If valve is to be removed, identify air lines and disconnect and remove valve.

DISASSEMBLY

1. While holding the valve guide (5), remove and discard retaining ring (6).
2. Remove valve guide (5) from the body (2) and remove O-Ring (1) and discard.
3. Remove and retain vent pin (7).
4. Remove and discard spring (8).
5. Remove the spring shim if the valve is so equipped.
6. Remove and discard supply valve (3) and its O-Rings (4).

ASSEMBLY

Prior to assembly, clean the valve guide (5) and body (2). Lubricate the O-Ring grooves, O-Rings and body bores using the lubricant provided in this kit.

1. Install both O-Rings (4) on the supply valve (3).
2. Install the supply valve (3) in the body (2).
3. Install the spring shims if the valve is so equipped.
4. Install O-Ring (1) on the valve guide (5).
5. Install the spring (8) and vent pin (7).
6. Install the valve guide (5) in the body (2) and hold in place.
7. Install retaining ring (6), making sure it is completely seated in its groove.

OPERATION AND LEAKAGE TEST

1. If the valve has been removed from the vehicle, apply a source of air pressure (120 psi) to the supply port. Apply a soap solution to the delivery port, the vent pin area and around the retaining ring. No leakage is permitted.
2. Exhaust the air pressure from the supply port and apply it to the control port. Apply a soap solution to the supply and delivery ports. A combined leakage of a 1" bubble in 3 seconds or less is permissible.
3. If the valve was not removed from the vehicle, build the air pressure at the supply port to 100 psi and remove the delivery line either at the valve or at the air starter. Apply a soap solution to the delivery port and around the vent pin and retaining ring. No leakage is permitted.
4. Reinstall the delivery line.

INSTALLATION

If the valve was removed from the vehicle, reinstall the valve and reconnect the air lines.

