



# Installation Instructions

SR-2 to SR-5  
Changeover  
Pc. No. 801664

BENDIX® SR-2™ TO SR-5™ TRAILER SPRING BRAKE VALVE CHANGEOVER

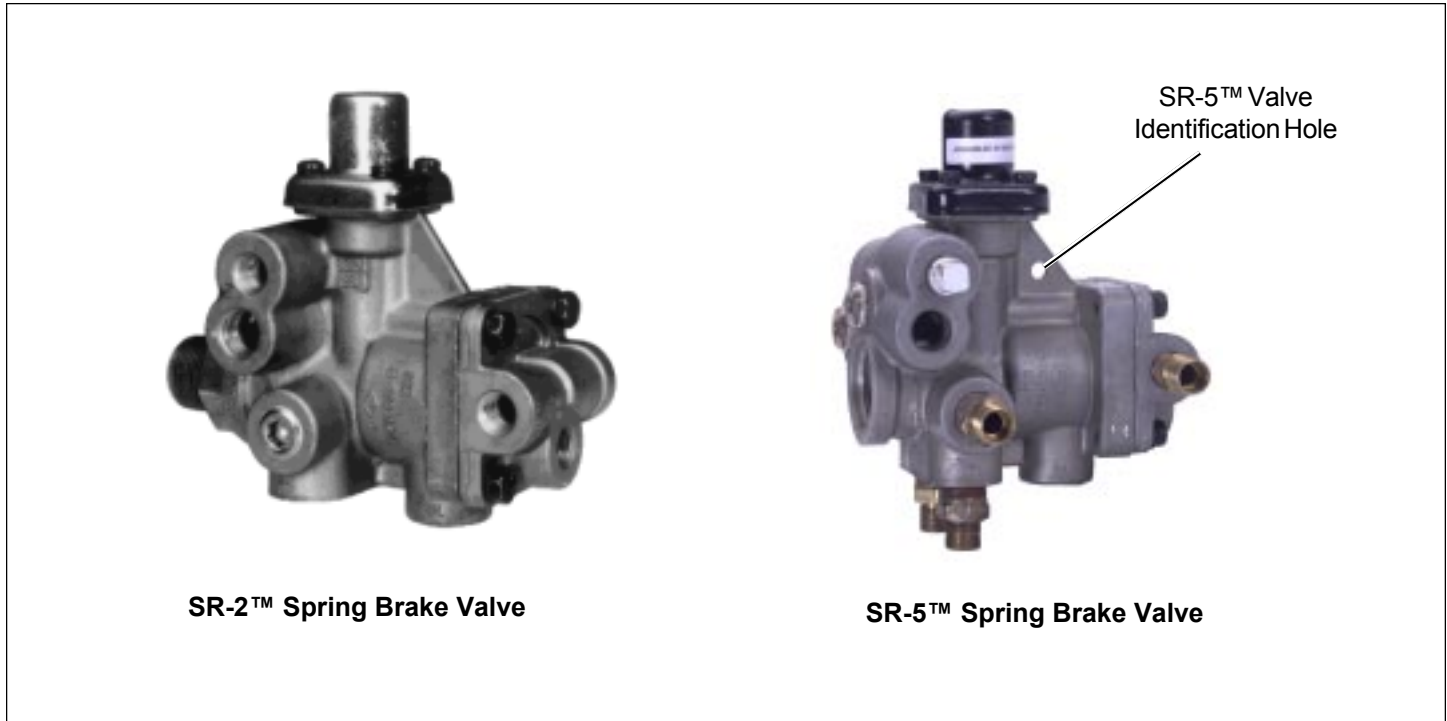
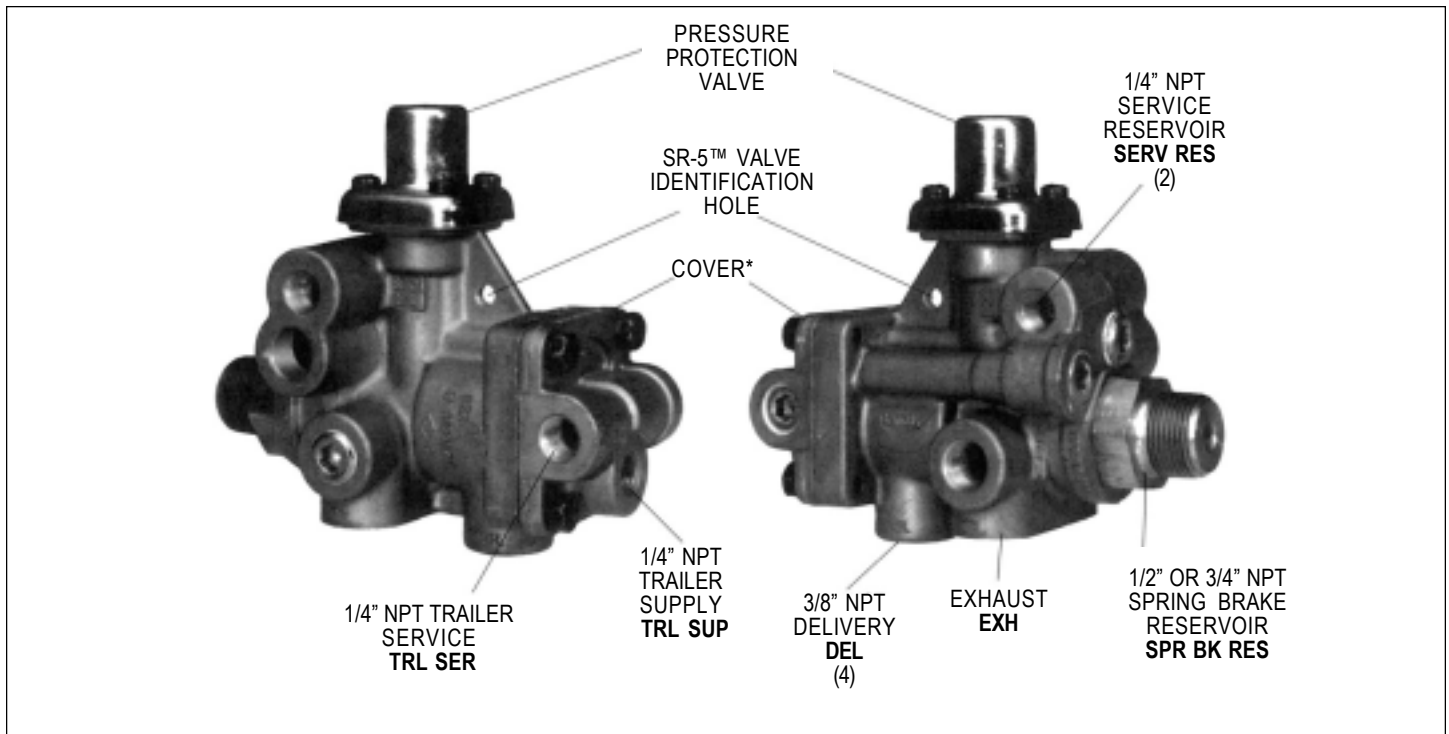


Figure 1 - SR-2™ and SR-5™ Trailer Spring Brake Valves

***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 and remove the key from the ignition 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 - Bendix® SR-5™ Trailer Spring Brake Valves Port Identification**

**BENDIX® SR-2™ TRAILER SPRING BRAKE VALVE REMOVAL**

Refer to Figure 3.

1. Identify and label all air lines connected to the SR-2™ valve.
2. Disconnect all of the air lines.
3. Remove the SR-2 valve from the reservoir.

**SR-5 INSTALLATION**

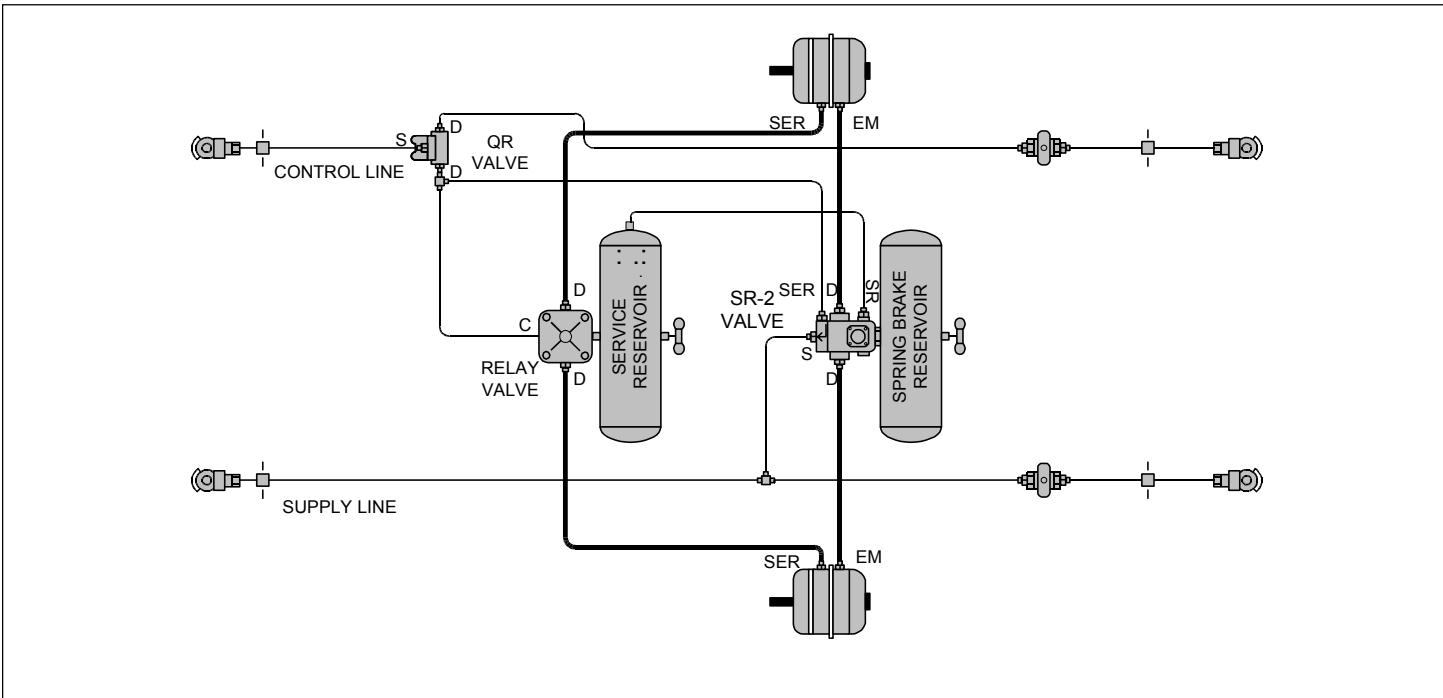
Refer to Figure 4.

1. Install the SR-5™ valve on the reservoir where the SR-2 valve was removed using its reservoir fitting (SPR BRK RES).
2. Install a new 3/8" pipe to 3/8" tubing fitting in one of the Service Reservoir Ports (SERV RES) of the SR-5 trailer spring brake valve.
3. Install a 3/8" I.D. Synflex® line from this Service Reservoir Port of the SR-5 valve to the reservoir that it is mounted to.
4. Reconnect all air lines to the SR-5 valve using the identification made in REMOVAL step 1.
5. Perform OPERATIONAL AND LEAKAGE TESTS before placing the vehicle back in service.

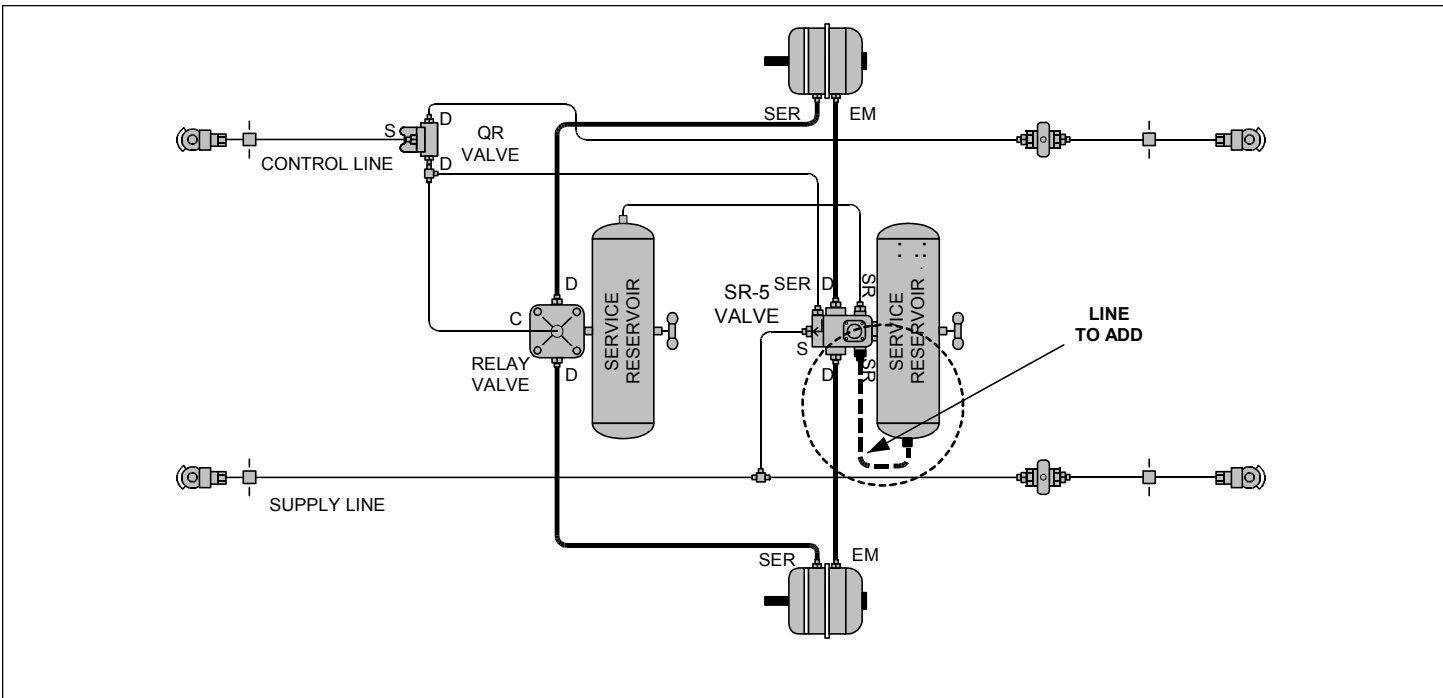
**OPERATIONAL AND LEAKAGE TESTS**

1. Install a gauge in the trailer reservoirs and the spring brake chamber. See Figure 5.
2. Connect shop air to the glad hand that supplies air to the SR-5 valve being tested. As shown in the schematic in figure 4 the air passes from the glad hand to the shut-off valve and regulator and to the SR-5 valve.

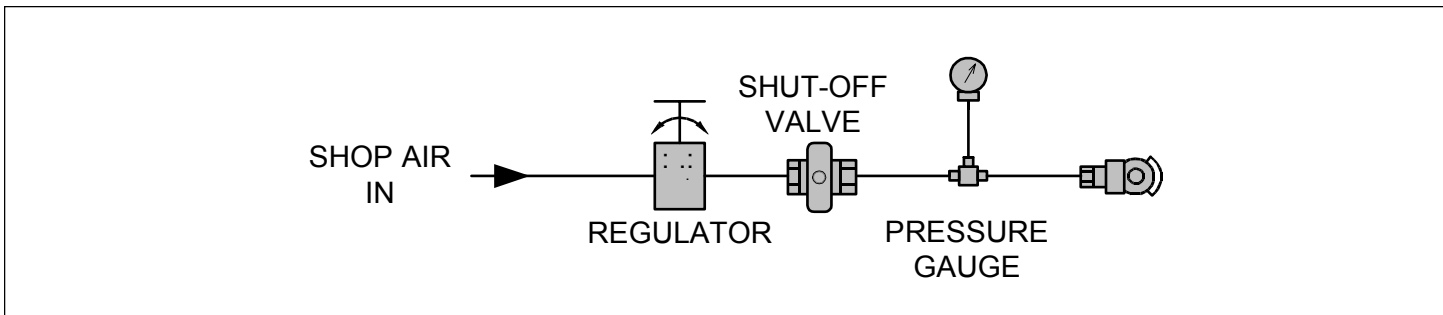
3. Slowly build supply pressure to the trailer by way of the regulator. As system pressure reaches approximately 75-95 psi, the trailer spring brakes should also build up to approximately 75-95 psi before the reservoirs begin to charge.
4. When the air pressure reaches 120 psi, stop building pressure in the trailer by closing the shut-off valve. This simulates cut-out of the tractor compressor. With the spring brakes fully released, apply a soap solution to the SR-5 valve exhaust port and the vent. A one inch bubble in 5 seconds is permissible.
5. Open the trailer supply gladhand to atmosphere. The spring brakes should apply. Soap the trailer supply glad hand opening to check for leaks. A one inch bubble in five seconds is permissible.
6. Reconnect the shop air to the trailer and recharge the system to 120 psi. Close the shut-off valve. The spring brakes should release. Open the trailer reservoir drain cock. The air pressure at the glad hand should bleed down to approximately 70 psi (minimum). The trailer spring brakes should remain released. After the system is stabilized, leakage at the open drain cock should not exceed a one inch bubble in five seconds.
7. Remove all testing equipment and reconnect any lines removed during testing.



**Figure 3 - Bendix® SR-2™ Trailer Spring Brake System Schematic**



**Figure 4 - Bendix® SR-5™ Trailer Spring Brake System Schematic**



**Figure 5 - Shop Air Setup for Testing**