

Installation Instructions



BENDIX® RE-4™ TO RE-6® RELAY EMERGENCY VALVE CHANGEOVER KIT

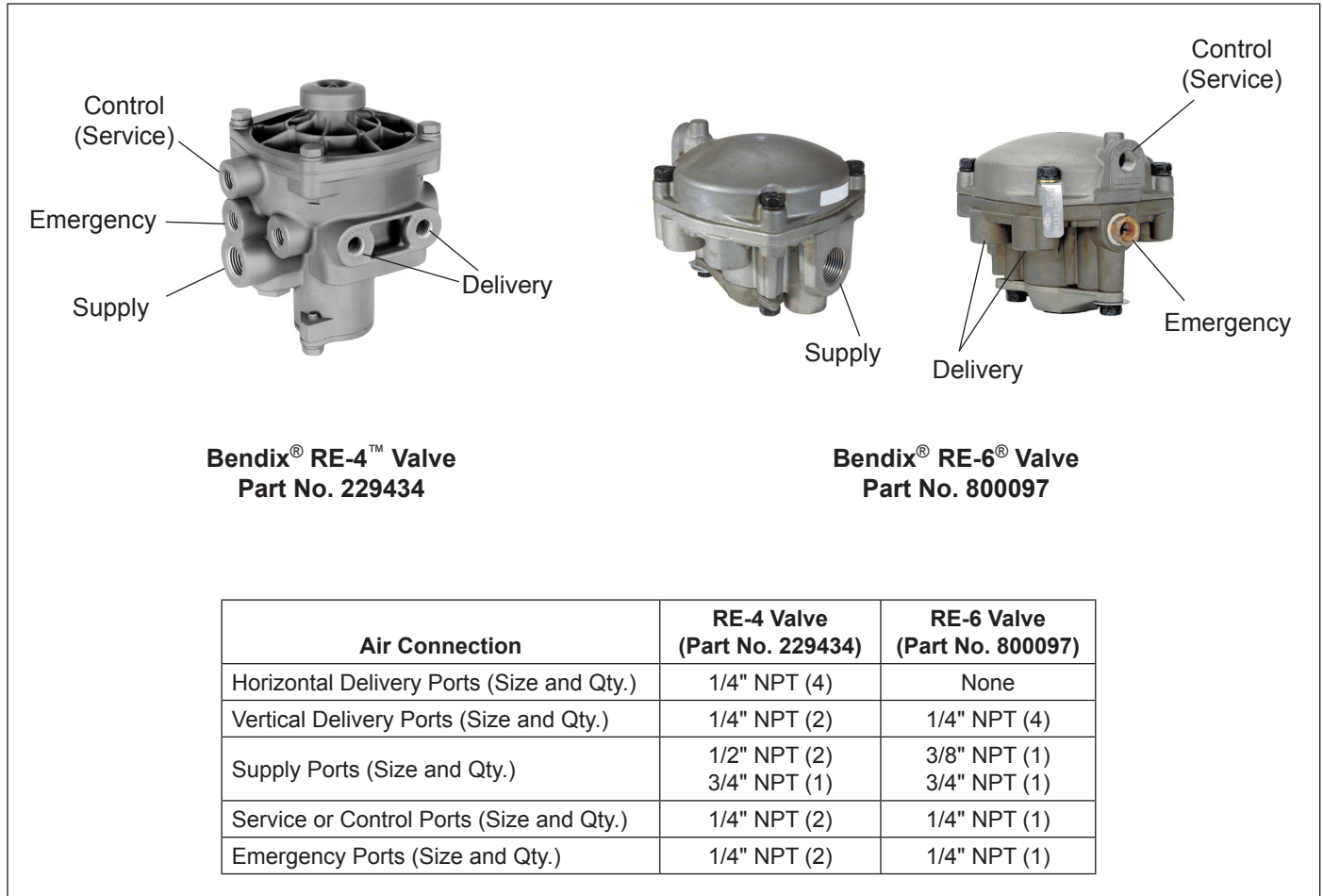


Figure 1 – Bendix® RE-4™ To RE-6® Relay Emergency Valve Changeover

BENDIX® RE-4™ VALVE REMOVAL

1. Identify and mark or label all air lines and their respective connections on the valve to facilitate ease of installation.
2. Disconnect the air lines.
3. Remove all fittings from the valve assembly.
4. Remove the valve assembly from the vehicle.
5. Before proceeding to Bendix® RE-6® valve installation, inspect all air lines connected to the valve for signs of deterioration and replace as needed.

BENDIX® RE-6® VALVE INSTALLATION

1. Install all air line fittings and plugs making certain thread sealing material does not enter the valve.
2. Install the RE-6 valve on the vehicle.
3. Re-connect all air lines to the valve using the identification made during valve removal.

NOTE: In unusual circumstances (for example, tri-axle trailer applications), Bendix® part no. 229434 may have used six delivery ports. In that case, use the two pipe tees and pipe nipples in kit Bendix part no. 800097 and install into two delivery ports to maintain six delivery lines.

Install the valve on the vehicle.

NOTE: If using a reservoir mounting adapter, a new flange gasket and adapter o-ring are included in the kit. If the reservoir adapter is not used, a 3/4" NPT pipe plug is included in the kit to seal the 3/4" supply port in the RE-6 valve. If the reservoir adapter is used for mounting, but not for an air connection, use the 3/8" NPT pipe plug in the kit to seal the center air passage in the adapter.

4. After installing the valve, test all air fittings for excessive leakage and tighten as needed.

The following three system plumbing schematics are included for reference: typical dolly system, typical single axle trailer system, and typical tri-axle trailer system.

GENERAL SAFETY GUIDELINES



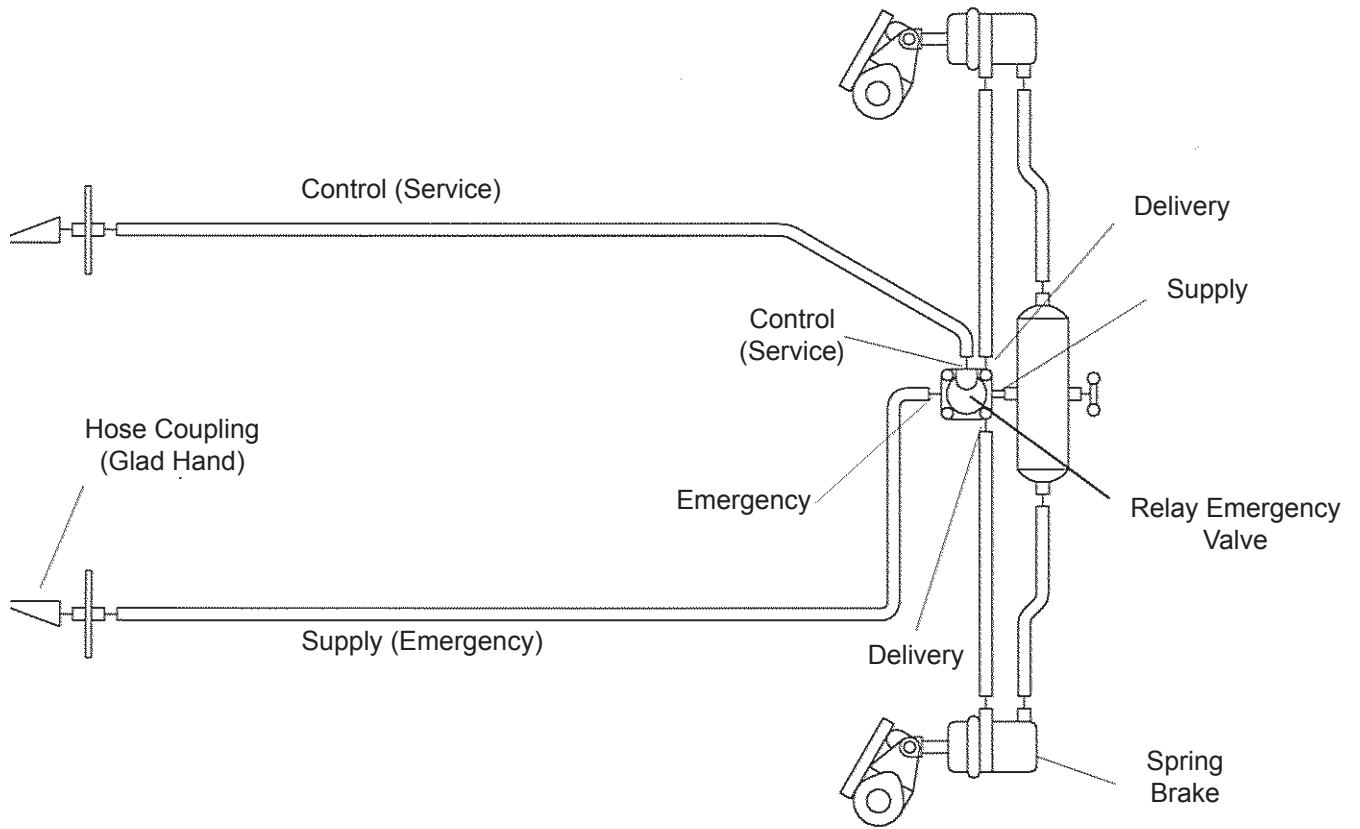
**WARNING! PLEASE READ AND FOLLOW THESE INSTRUCTIONS
TO AVOID PERSONAL INJURY OR DEATH:**



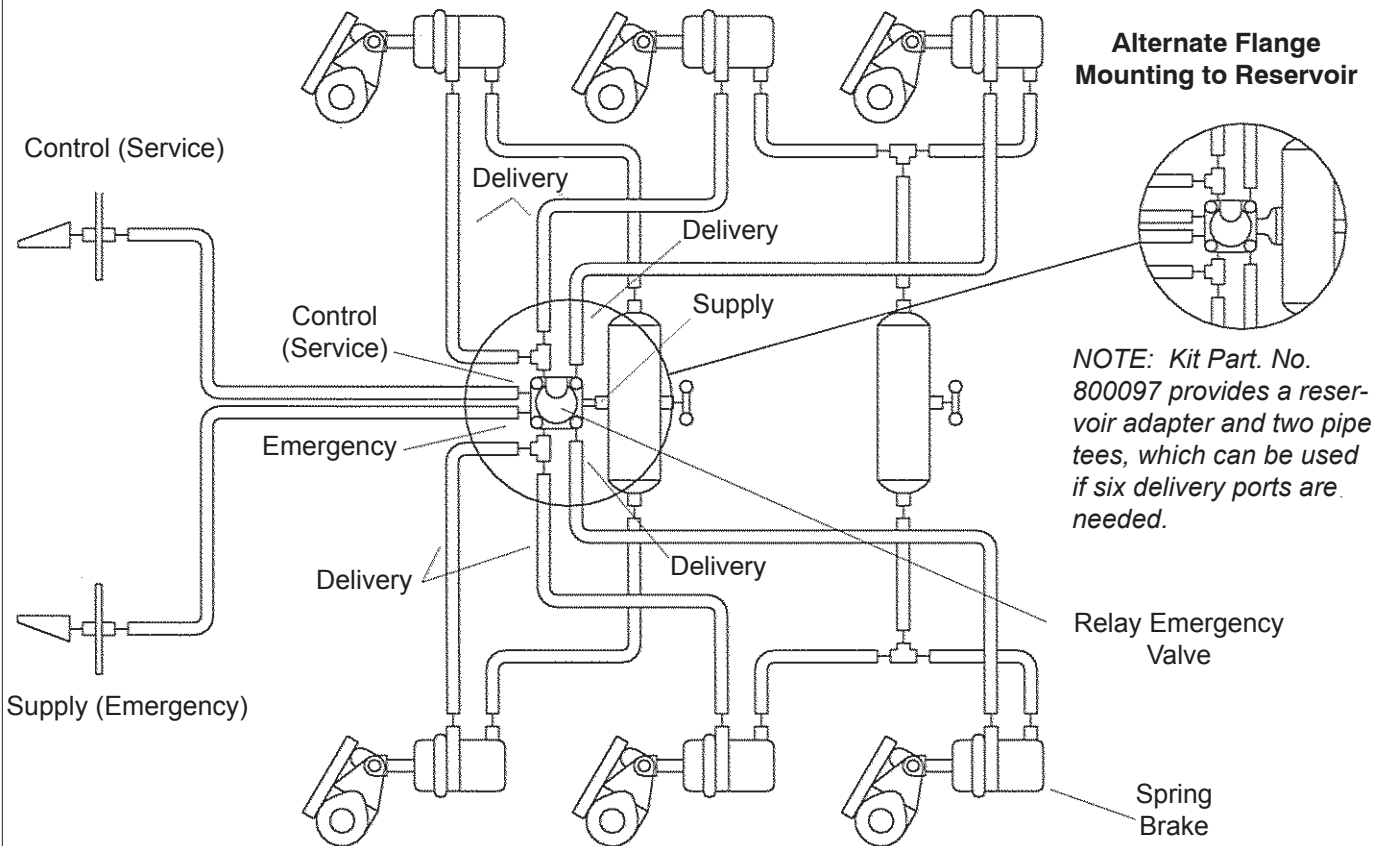
When working on or around a vehicle, the following guidelines should be observed **AT ALL TIMES**:

- ▲ Park the vehicle on a level surface, apply the parking brakes and always block the wheels. Always wear personal protection equipment.
- ▲ Stop the engine and remove the ignition key when working under or around the vehicle. When working in the engine compartment, the engine should be shut off and the ignition key should be removed. 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.
- ▲ 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.
- ▲ If the work is being performed on the vehicle's air brake system, or any auxiliary pressurized air systems, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle. If the vehicle is equipped with a Bendix® AD-IS® air dryer system, a Bendix® DRM™ dryer reservoir module, or a Bendix® AD-9si® air dryer, be sure to drain the purge reservoir.
- ▲ Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in a manner that safely removes all electrical power from the vehicle.
- ▲ Never exceed manufacturer's recommended pressures.
- ▲ You should consult the vehicle manufacturer's operating and service manuals, and any related literature, in conjunction with the Guidelines above.
- ▲ Never connect or disconnect a hose or line containing pressure; it may whip and/or cause hazardous airborne dust and dirt particles. Wear eye protection. Slowly open connections with care, and verify that no pressure is present. Never remove a component or plug unless you are certain all system pressure has been depleted.
- ▲ Use only genuine Bendix® brand replacement parts, components and kits. Replacement hardware, tubing, hose, fittings, wiring, etc. must be of equivalent size, type and strength as original equipment and be designed specifically for such applications and systems.
- ▲ Components with stripped threads or damaged parts should be replaced rather than repaired. Do not attempt repairs requiring machining or welding unless specifically stated and approved by the vehicle and component manufacturer.
- ▲ Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.
- ▲ For vehicles with Automatic Traction Control (ATC), the ATC function must be disabled (ATC indicator lamp should be ON) prior to performing any vehicle maintenance where one or more wheels on a drive axle are lifted off the ground and moving.
- ▲ The power **MUST** be temporarily disconnected from the radar sensor whenever any tests **USING A DYNAMOMETER** are conducted on a vehicle equipped with a Bendix® Wingman® system.

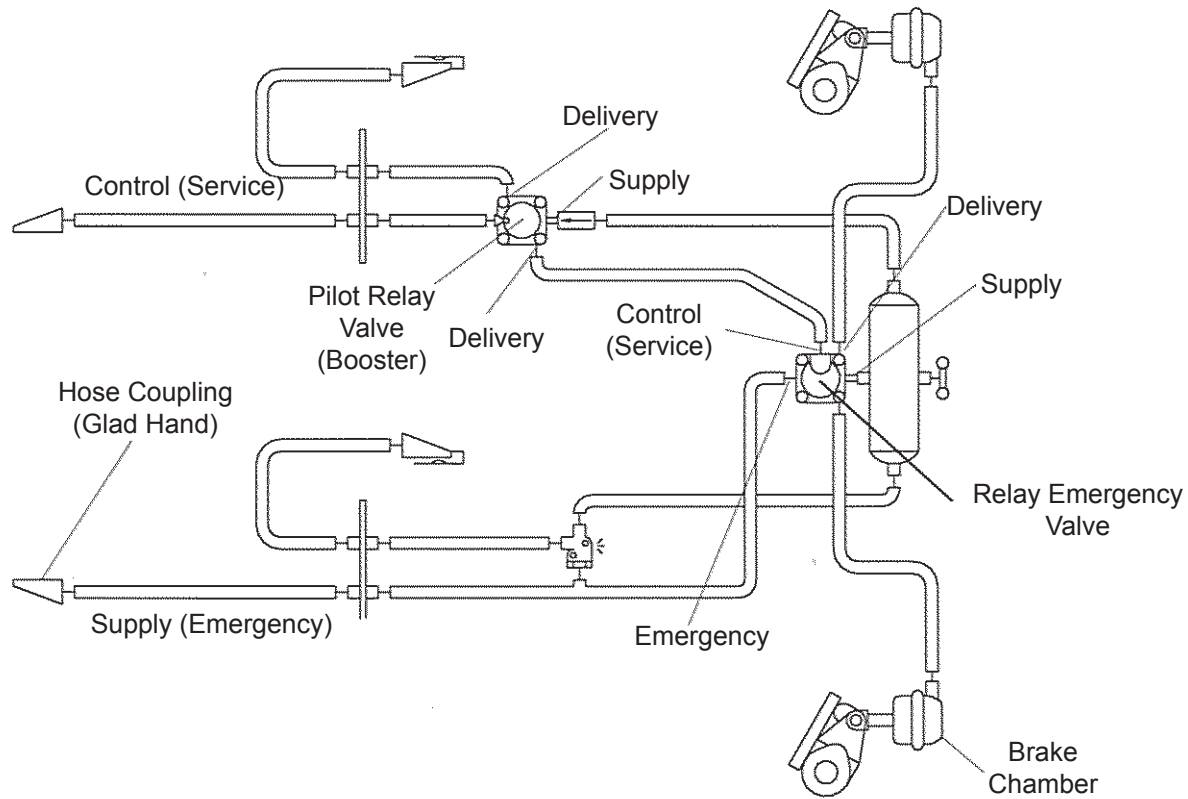
Typical Single Axle Semi-Trailer System



Typical Tri-Axle Semi-Trailer System



Typical Converter Dolly System



Trucking moves fast. Move faster.
Knowledge Dock™
 • BLOGS • PODCASTS • VIDEOS • 24/7/365
knowledge-dock.com



Log-on and Learn from the Best
 On-line training that's available when you are –24/7/365.
 Visit brake-school.com.