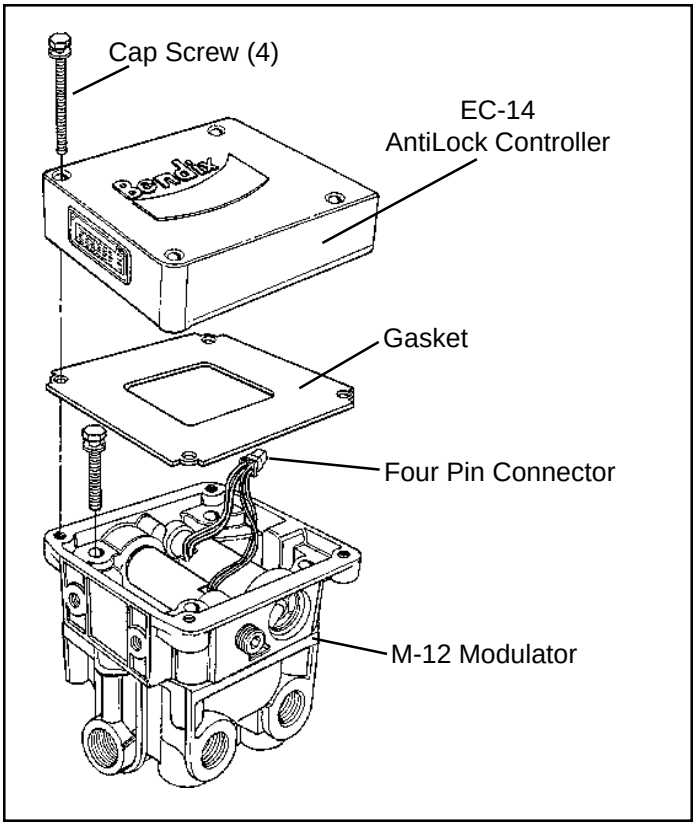
Installation Instructions

REPLACEMENT EC-14 ANTILOCK CONTROLLER



MC-14 Modulator Controller Assembly

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.**

REMOVING THE EC-14 CONTROLLER ASSEMBLY

1. Identify and remove all air lines connected to the unit.
2. Loosen the 1/4" bolt at the center of the 30 pin connector then disconnect connector from the EC-14.
3. Note and mark the mounting position of the M-12 Modulator assembly on the vehicle. Loosen, remove and save the nuts on the mounting hardware that attaches the M-12 Modulator assembly bracket to the vehicle. Remove the Modulator and EC-14 controller assembly from the vehicle.
4. Remove as much contamination as possible from the exterior of the assembly making sure to keep the contamination away from the open ports of the Modulator portion.
5. Note and mark the position of the EC-14 relative to the Modulator. Remove and retain the four cap screws that secure the EC-14 to the M-12 Modulator.
6. Carefully separate the EC-14 from the Modulator, then disconnect the four pin connector, leading from the Modulator to the EC-14.
7. Peel the gasket from the EC-14 or Modulator and discard.

INSTALLING THE EC-14 CONTROLLER ASSEMBLY

1. Note the relationship of the positioning marks made prior to disassembly. Position the gasket on the EC-14. Connect the four pin connector, from the M-12 Modulator to the EC-14. Secure the EC-14 to the Modulator using the four cap screws. Torque the cap screws to 50-80 pound inches.
2. Mount the assembled MC-14 and Modulator Controller on the vehicle and orient it in the position marked prior to removal.
3. Reconnect all air lines to the assembly making certain that thread sealer does not enter the valve.
4. Reconnect the 30 pin electrical connector to the EC-14 and tighten the 1/4" bolt at the center of the connector.
5. Test the antilock relay valve for operation and leakage prior to placing the vehicle in service.
6. Perform the "Initial Start-up Procedure" in the TROUBLE SHOOTING pamphlet, included with this replacement, to assure proper antilock system operation.