Installation Instructions

MCE-12 Modulator Controller Assembly For Dollies

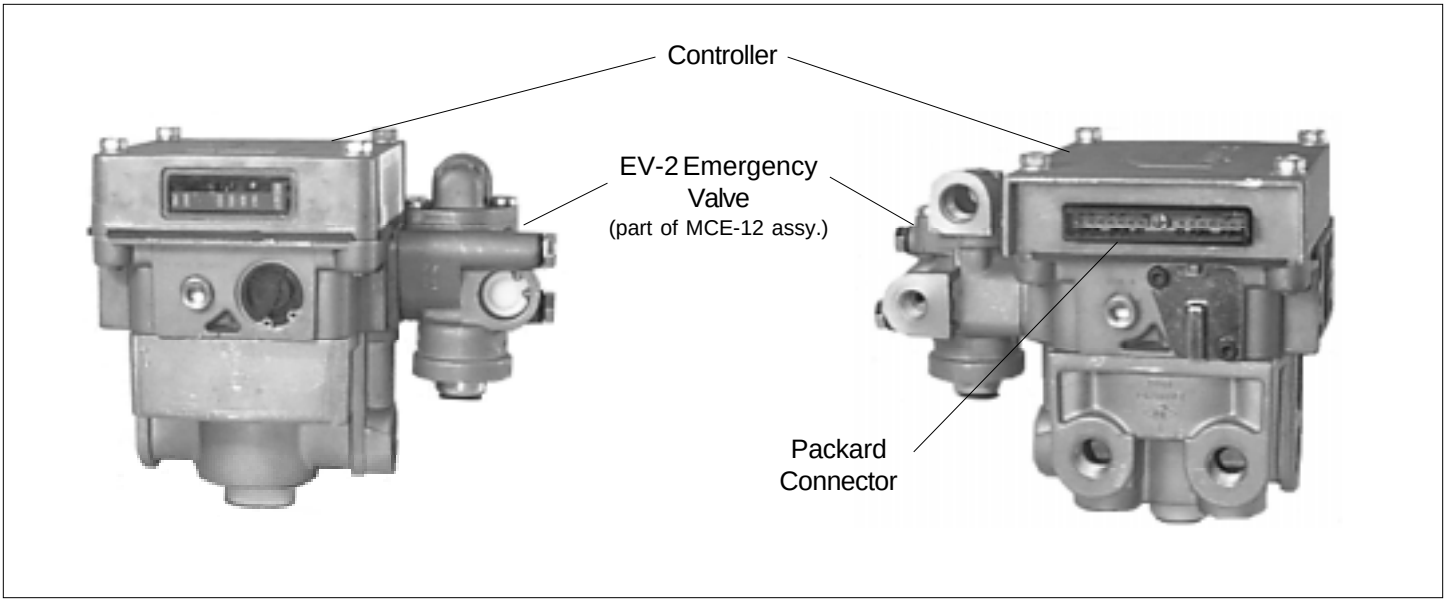

FIGURE 1 MCE-12 Modulator Controller Assembly

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.**

MCE-12 REMOVAL

1. Identify and mark or label all air lines and fittings connected to the MCE-12.
2. Disconnect air lines and remove fittings from the MCE-12.
3. Completely loosen the "jack" screw on the wire harness then disconnect the wire harness connector from the controller.
4. Remove the MCE-12 from the vehicle.

INSPECTION

Look for any visible damage to the connectors, wiring harnesses, air line fittings and mounting hardware. Repair or replace any damaged components. Clean all thread sealer from the pipe threads of fittings that will be used again.

MCE-12 INSTALLATION

1. Install the air line fittings in the appropriate ports, as identified during "MCE-12 REMOVAL." If thread sealer is used, make certain this material does not enter the valve.
2. Install the MCE-12 on the vehicle.
3. Connect air lines to their appropriate ports, as identified in "MCE-12 REMOVAL."
4. Refer to Figure 1 when installing the MCE-12 wire harness assembly. Note the position of locating lugs on the connector halves. DO NOT FORCE THE CONNECTOR HALVES TOGETHER. Tighten the "jack" screw to 8-10 inch pounds.
5. Connect the wire harness connector to the electronic controller and secure with its hex screw.
6. Perform the OPERATION and LEAKAGE TESTS presented in this instruction sheet.

OPERATION & LEAKAGE TESTS

The following tests are intended to check for correct installation of the MCE-12. Complete Operation and Leakage tests for the M-12 Modulator (lower half of the MCE 12) are presented in Bendix Service Data Sheet SD-13-4772, available through any authorized Bendix parts outlet.

OPERATING TEST

1. Apply and release the brakes several times and check for prompt application and release at the rear wheels.
2. If a “sluggish” response is noted at all wheels, inspect for a kinked or obstructed air line leading to the MCE-12. If a “sluggish” response is noted at a single wheel, check the air line between the MCE-12 and the chamber.
3. If a incomplete release is noted at all wheels, inspect for a kinked or obstructed service air line leading to the MCE-12. If a “sluggish” response is noted at a single wheel, check the air line between the MCE-12 and the chamber.

LEAKAGE TESTS

1. Build the air system pressure to governor cut-out, and hold the brakes applied. Apply a soap solution to all air fittings and check for leakage. Tighten fittings as needed.
2. Before placing the vehicle back in service, test the AntiLock system according to Troubleshooting Instructions S-1095.