



# Installation Instructions

## Replacement Antilock Controller

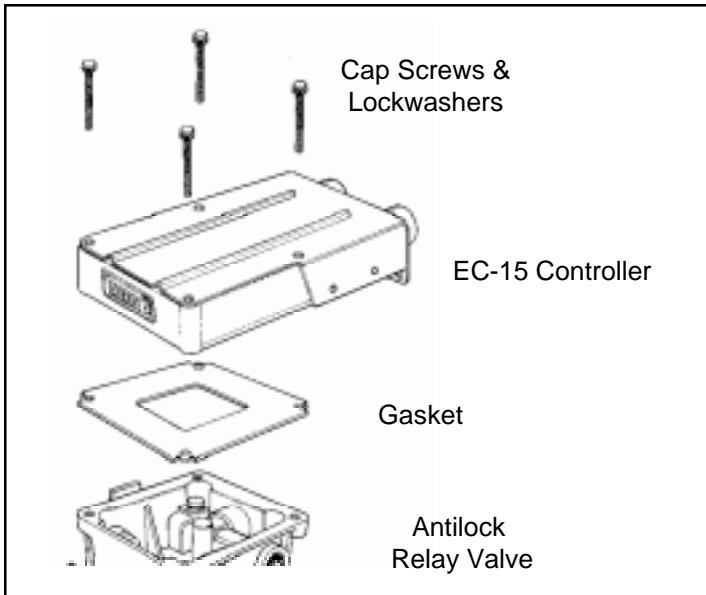


Figure 1 Typical EC-15 Controller Relay Assembly

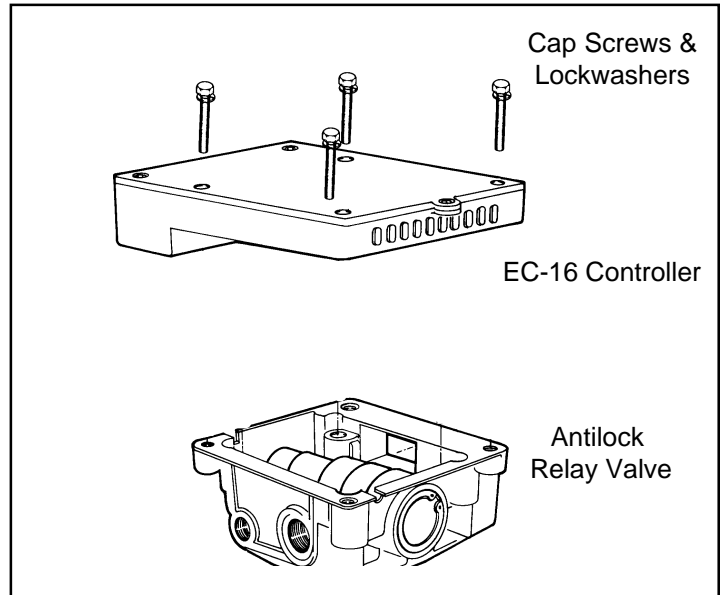


Figure 2 Typical EC-16 Controller Relay Assembly

This kit contains the following parts;

Qty.	Description
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1	Antilock Controller
1*	Gasket
1	Dielectric Grease
4	Cap Screws with integral lock washers

\* These items supplied with the EC-15 controller only.

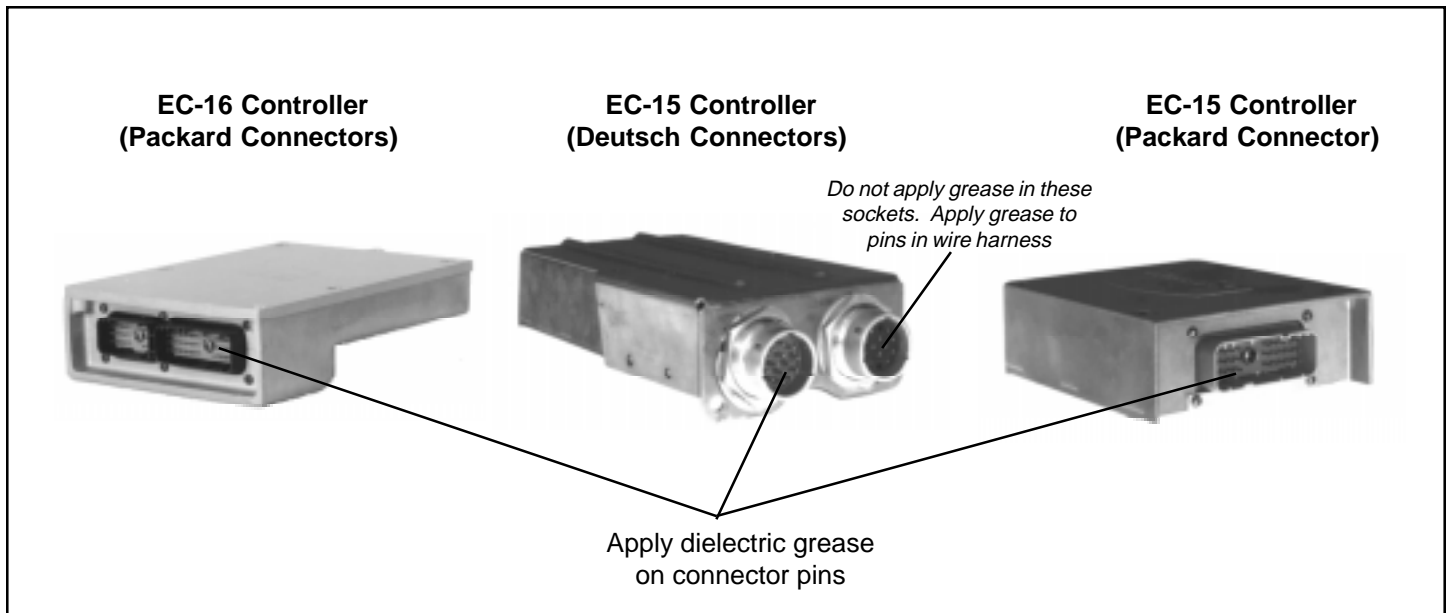
### GENERAL

This kit is intended to provide the necessary components to replace the AntiLock 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.



**Figure 3** Dielectric Grease Application

### **REMOVING CONTROLLER ASSEMBLY**

#### **GENERAL INFORMATION**

Both the EC-15 and EC-16 antilock controllers can be valve mounted, as illustrated figure 1, or remote mounted somewhere on the vehicle. Valve mounted units as illustrated in figure 1 will be located in the vicinity of the rear axle(s). Consult the vehicle maintenance manual for the location of remote mounted controllers.

1. Locate the antilock controller on the vehicle.
2. Remove as much contamination as possible from the exterior of the controller relay valve assembly.
3. With vehicle ignition OFF disconnect the electrical connector(s) from the controller.
4. Note and mark the mounting position of the controller to the relay valve assembly or vehicle member in the case of remote mounted controllers.
5. Remove and discard the four cap screws that secure the controller to the antilock relay valve or vehicle member in the case of remote mounted controllers. If a remote mount controller is in use skip to step 7. (*NOTE: Do not use an impact wrench for removal.*)

**Important;** Check the cap screws that secure the controller to the valve body for the presence of corrosion and its severity. If in doubt as to the severity of the corrosion, use a penetrating oil (*Note; Use a silicone fluid such as WD-40 or Dow Corning 316 silicone release spray. Other penetrating oils may damage the controller.*) **VERY LIGHTLY TAP** the head of the cap screw to "work" the oil into the corroded threads. It is good practice to wait several minutes and repeat the process before attempting to remove the screws.

6. Separate the controller from the antilock relay valve. Peel the gasket from the antilock relay valve (If so equipped) and discard the gasket.
7. Refer to the instructions included with the replacement controller regarding return of the controller that has just been removed.

Should you have any questions please call 1-800-247-2725.

### **INSTALLING THE NEW CONTROLLER ASSEMBLY**

1. If a remote mounted controller is in use, skip to step 2 and proceed. Position the new gasket on the controller, if required. (EC-15 controllers only, see figure 3 for controller identification).
2. After noting the relationship of the positioning marks made prior to disassembly, secure the controller to the antilock relay valve, or vehicle member in the case of remote mounted controller, using the four new cap screws provided. Torque the cap screws to 50-80 inch pounds.
3. **BEFORE RECONNECTING** the WIRE HARNESS(ES) to the controller assembly, it is necessary to apply a dielectric grease to the PINS of the wire harness or controller. The purpose of the dielectric grease is to inhibit corrosion from forming between the metal surfaces of the pin and its socket. Apply the grease, supplied with the replacement controller, so that each pin of the connector is coated when the connector halves are assembled.
4. Carefully reconnect the electrical connector(s) to the controller. If Packard connectors are in use (see figure 3), tighten the connector retaining bolt to 7 - 13 inch pounds.
5. Using the service manual and laminated troubleshooting card provided, test the antilock system for proper operation prior to placing the vehicle in service. Begin by performing the "Initial Start-up Procedure" in the Service Data manual. Should you have any questions please call 1-800-247-2725.