



Installation Instructions

Replacement Antilock Controller

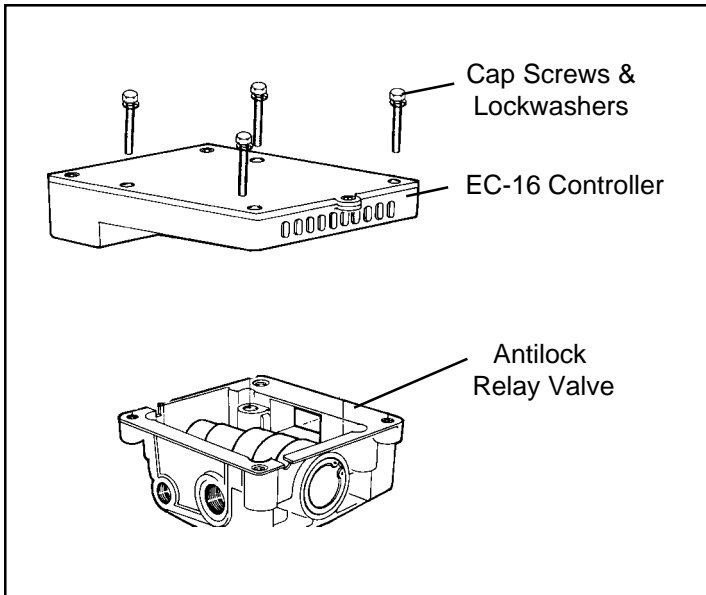


Figure 1 Typical EC-16 Controller Relay Assembly

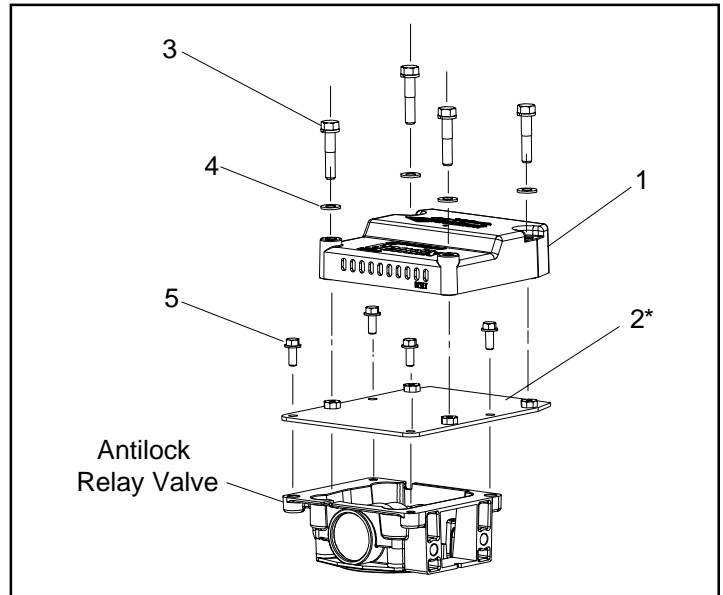


Figure 2 Typical EC-17 Controller Relay Assembly

This kit contains the following parts;

Item	Qty.	Description
1	1	EC-17 Antilock Controller
2	1	Adapter plate
3	4	1/4-20 x 1.5 inch SEMS bolt
4	4	Spacer or thick washer
5	4	1/4-20 x .60 inch bolt with Locktite
-	1	Screwdriver
-	1	SD-13-4788 (BW1910)
-	1	Dielectric Grease - Tube

GENERAL

This kit is intended to provide the necessary components to replace the Antilock Controller assembly. *An adapter plate is included in the kit to facilitate installation in the event that the vehicle harness is not long enough to connect to the new EC-17 controller. Do not reuse mounting hardware removed.

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 CONTROLLER ASSEMBLY

GENERAL INFORMATION

Both the EC-16 and EC-17 antilock controllers can be valve mounted, as illustrated figures 1 & 2, or remote mounted somewhere on the vehicle. Valve mounted units are usually located in the vicinity of the rear axle(s). Consult the vehicle maintenance manual for the location of remote mounted controllers.

This changeover kit facilitates the replacement of the EC-16 with an EC-17 controller.

1. Locate the antilock controller on the vehicle.
2. Remove as much contamination as possible from the exterior of the controller relay valve assembly and electrical connectors.
3. With vehicle ignition OFF disconnect the electrical connectors from the controller. Keep the contamination away from the electrical connections as much as possible.
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. *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, Kroil or Dow Corning 316 silicone release spray.) 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. (NOTE: Do not use an impact wrench for removal.)* Remove and discard the four cap screws that secure the EC-16 controller to the antilock relay valve.
6. Separate the EC-16 controller from the antilock relay valve.

INSTALLING THE NEW CONTROLLER ASSEMBLY

Caution: Do not use mounting hardware removed.

1. After noting the relationship of the positioning marks made prior to disassembly place the controller on the relay valve. While holding the EC-17 in place verify that the wiring harness length is adequate for assembly. The EC-17 controller is approximately 2 1/2 inches shorter in length than the EC-16 controller. If the wiring harness length is adequate proceed to step 3. An adapter plate(2), reference figure 2, is included to facilitate the installation in the event that the wiring harness is not long enough to connect to the EC-17 controller.

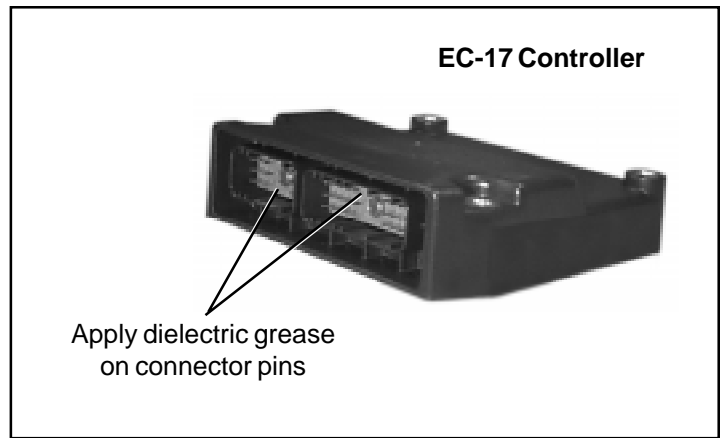


Figure 3 Dielectric Grease Application

2. Install the adapter plate(2) with the four bosses (weld nuts) away from the antilock relay valve as indicated in figure 2. Align the four mounting holes without bosses with the four tapped holes on the body of the valve or remote mounting bracket. The tapered end of the plate will extend about 2 1/2" beyond the valve. Secure with the 4 small bolts(5) and torque to 96 inch pounds.
3. Secure the EC-17 controller(1) to the antilock relay valve, adapter plate, or vehicle member (in the case of remote mounted controller), using the four new long bolts(3), and spacers(4) provided. Torque the bolts to 96 inch pounds.
4. **BEFORE CONNECTING THE WIRE HARNESSSES** to the controller assembly, it is necessary to apply a dielectric grease (contained in kit) to the PINS of the wire harness or controller. See figure 3. 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 so that each pin of the connector is coated when the connector halves are assembled.
5. Carefully connect the electrical connectors to the EC-17 controller. Tighten the jack screw on the connector to 15-20 inch pounds.
6. Using the service manual, 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 SD-13-4788.

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