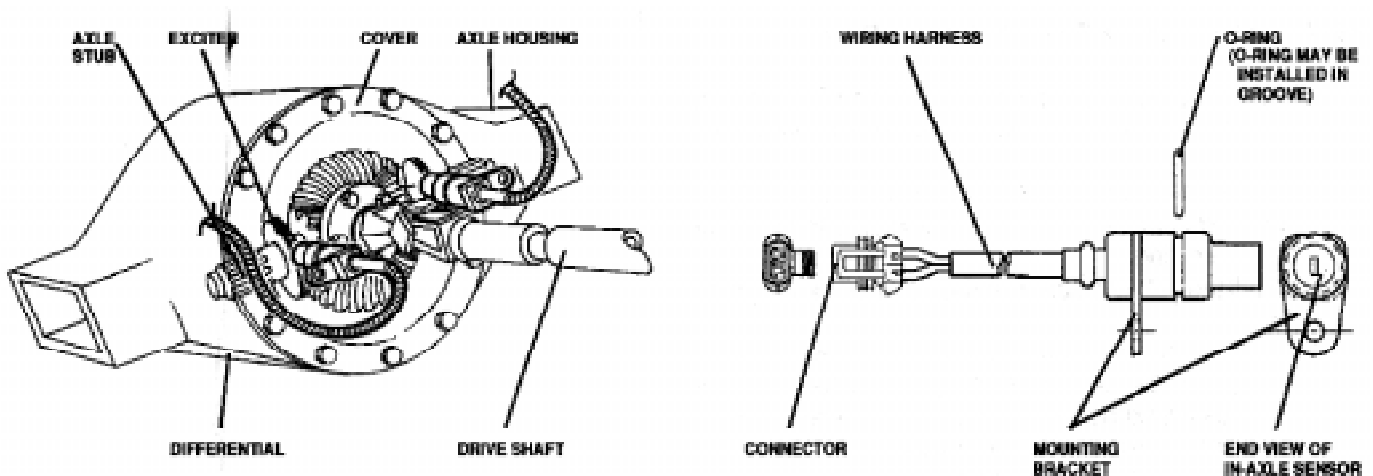




# Installation Instructions

## IN-AXLE SPEED SENSOR FOR BENDIX ANTILOCK SYSTEM



WS-11 Speed Sensor -- Typical Installation --

### **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.

### **REMOVAL OF THE IN-AXLE SPEED SENSOR**

1. Locate the speed sensor on the cover (pumpkin) of the differential and remove as much contamination from the area as possible, taking care not to damage the wiring harness.
2. Remove the 1/4" cap screw and washer from the mounting bracket and pull the speed sensor out of the differential cover.
3. Lift the lock tabs from the mating connector of the vehicle wiring harness and pull the connector of the speed sensor free. Remove any wire ties retaining the speed sensor or wiring harness.

### **INSTALLATION OF THE IN-AXLE SPEED SENSOR**

1. Make sure the hole in the cover of the differential that contains the speed sensor is free of all contamination.
2. Lightly lubricate the opening in the cover and push the speed sensor into position, making sure to not damage the o-ring.
3. Install the 1/4" cap screw and lockwasher and tighten securely.
4. Install the connector on the end of the speed sensor wiring harness into its mating connector from the vehicles wiring harness and press together until the lock tabs snap in place. Tie wrap the wire harness to eliminate any excessive movement.

### **TEST**

Refer to Bendix Antilock Troubleshooting Diagram, BW-1609 enclosed, paying particular attention to the section titled "Sensor LED is Illuminated" under General Information.

