



# Installation Instructions

## HARNESS KIT

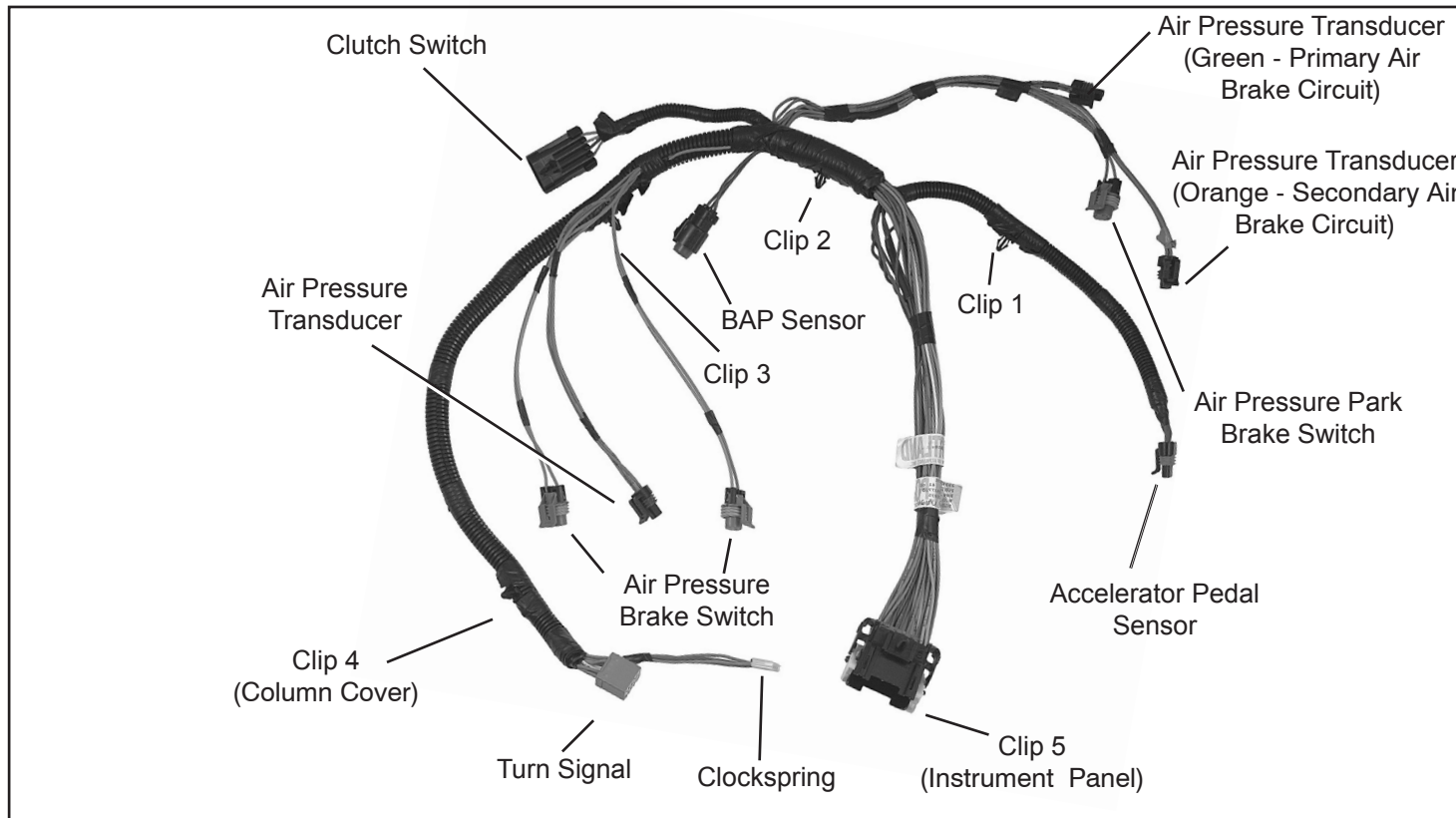


Figure 1a– Wire Harness Kit for Air Brake Applications

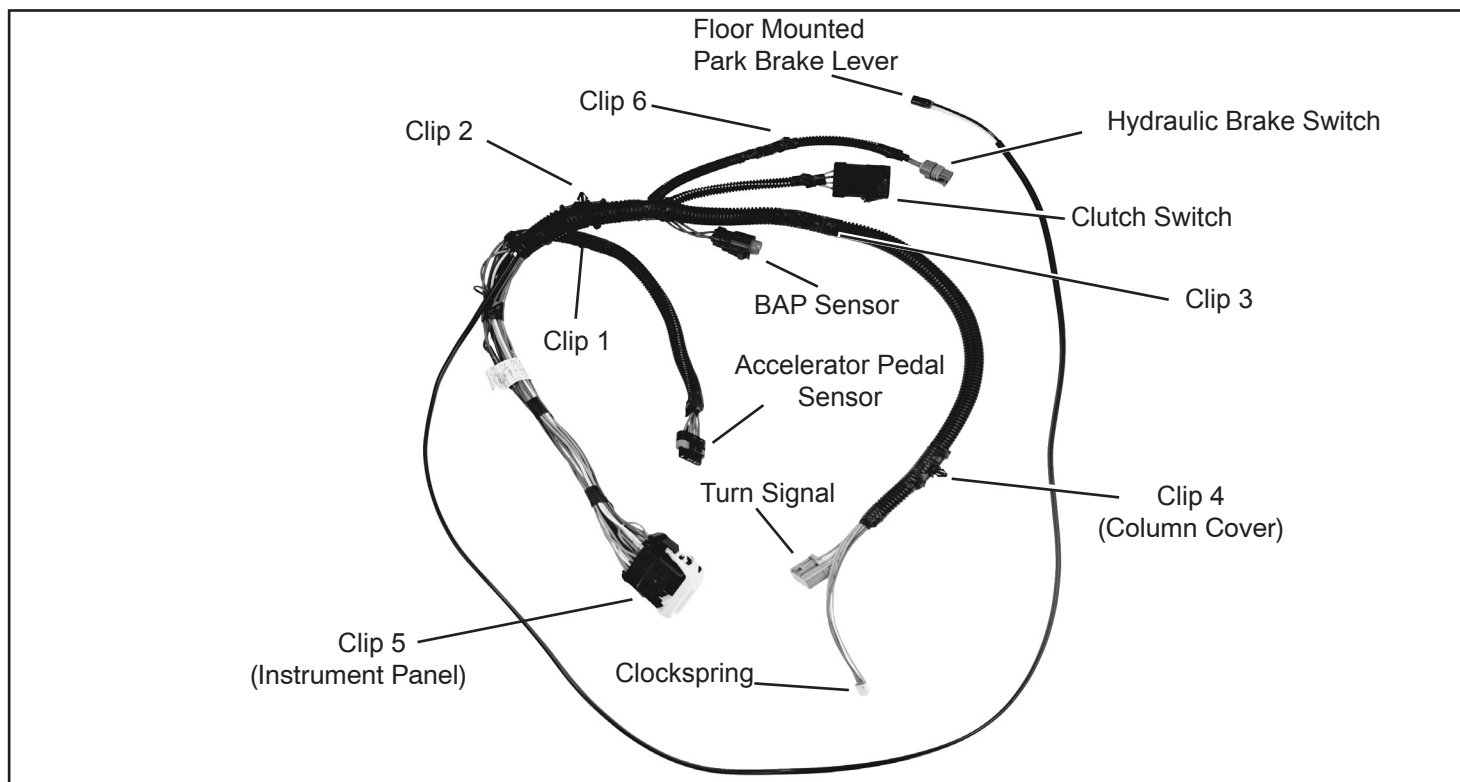


Figure 1b– Wire Harness Kit for Hydraulic Brake Applications



## GENERAL SAFETY GUIDELINES

**WARNING! PLEASE READ AND FOLLOW THESE INSTRUCTIONS  
TO AVOID PERSONAL INJURY OR DEATH:**



**When working on or around a vehicle, the following guidelines should be observed AT ALL TIMES:**

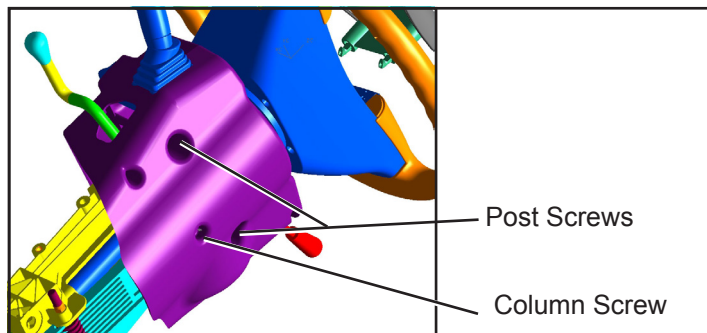
- ▲ Park the vehicle on a level surface, apply the parking brakes and always block the wheels. Always wear personal protection equipment.
- ▲ Stop the engine and remove the ignition key when working under or around the vehicle. When working in the engine compartment, the engine should be shut off and the ignition key should be removed. 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.
- ▲ 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.
- ▲ If the work is being performed on the vehicle's air brake system, or any auxiliary pressurized air systems, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle. If the vehicle is equipped with a Bendix® AD-IS® air dryer system, a Bendix® DRM™ dryer reservoir module, or a Bendix® AD-9si® air dryer, be sure to drain the purge reservoir.
- ▲ Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in a manner that safely removes all electrical power from the vehicle.
- ▲ Never exceed manufacturer's recommended pressures.
- ▲ You should consult the vehicle manufacturer's operating and service manuals, and any related literature, in conjunction with the Guidelines above.
- ▲ Never connect or disconnect a hose or line containing pressure; it may whip and/or cause hazardous airborne dust and dirt particles. Wear eye protection. Slowly open connections with care, and verify that no pressure is present. Never remove a component or plug unless you are certain all system pressure has been depleted.
- ▲ Use only genuine Bendix® brand replacement parts, components and kits. Replacement hardware, tubing, hose, fittings, wiring, etc. must be of equivalent size, type and strength as original equipment and be designed specifically for such applications and systems.
- ▲ Components with stripped threads or damaged parts should be replaced rather than repaired. Do not attempt repairs requiring machining or welding unless specifically stated and approved by the vehicle and component manufacturer.
- ▲ Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.
- ▲ For vehicles with Automatic Traction Control (ATC), the ATC function must be disabled (ATC indicator lamp should be ON) prior to performing any vehicle maintenance where one or more wheels on a drive axle are lifted off the ground and moving.
- ▲ The power **MUST** be temporarily disconnected from the radar sensor whenever any tests **USING A DYNAMOMETER** are conducted on a vehicle equipped with a Bendix® Wingman® system.

### DESCRIPTION

This kit contains all of the components necessary to replace the wire harness on International® vehicles. The harness shown in *Figure 1a* is for air braked vehicles and the harness for hydraulic braked vehicles is shown in *Figure 1b*.

### DISASSEMBLY

1. Disconnect the power source before working on electrical components.
2. As shown in *Figure 2*, remove the steering column covers by removing the two post screws and one column screw with a Torx® driver. Separate the bottom and top cover halves. The wiring harness is attached to the bottom cover half. Disconnect the harness from the clip point shown in *Figure 3* and remove the bottom cover.



**Figure 2—Removal of Column and Post Screws (bottom)**

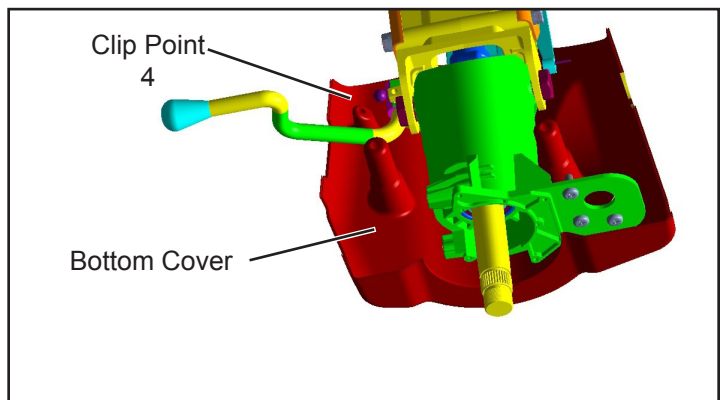
3. Disconnect all of the connectors of the wire harness and remove the harness from all of the clip points *as indicated in Figure 4*. Identify and mark the location of clip point 5 in the instrument panel for reassembly.

#### ASSEMBLY

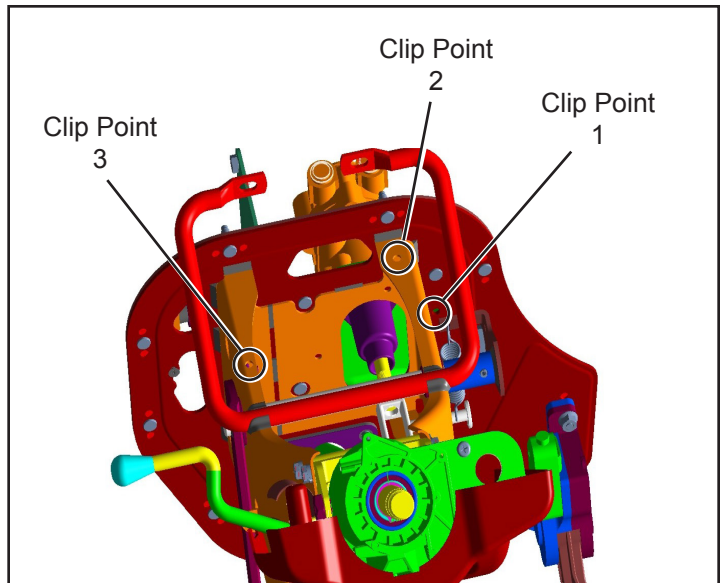
1. Install the wire harness securing it at the clip points and ensuring that all connections are properly connected. Note that clip point 5 is in the instrument panel and clip point 6 (for hydraulic brake applications only) is in the top of the brake pedal. An audible click ensures the connectors are secure. *Refer to Figures 1 and 4.*
2. Reinstall the column cover halves, starting with the bottom cover. Align the steering column screw hole of the bottom cover with the steering column hole. As shown in Figure 5, the locating tab inside the cover rests against the Bendix® TC-7™ trailer control valve mounting plate when properly positioned. Install the column screw.  
  
Align the top cover with the bottom cover and install the two post screws. Tighten the post screw to 10–25 inch pounds and the center column cover screws to 20–40 inch pounds.
3. Reconnect the power source.

#### TESTING:

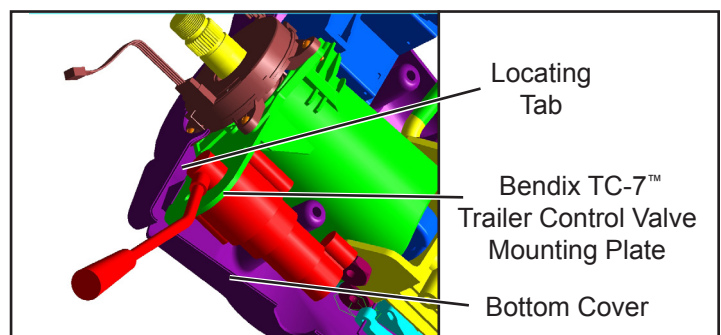
Test the vehicle wire harness per the manufacturer's guidelines.



**Figure 3–Clip Point 4 - Bottom Cover**



**Figure 4–Clip Points 1–3**



**Figure 5–Bottom Cover Installation**

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