



Installation Guide

Allison Park Signal Switch Kit

Application: Freightliner FRED Chassis

Model Years: 2006+ With Carlisle Parking Brake

Part# RWB144-01



Benefits

- Replaces the factory parking brake control wiring that is known for issues.
 - Works with either the factory parking brake controller or the US2078 kit.
 - Helps prevent unwanted parking brake lockup while driving.
 - Easy installation.
 - 1 year parts warranty
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Place the coach into park, and shut engine off.

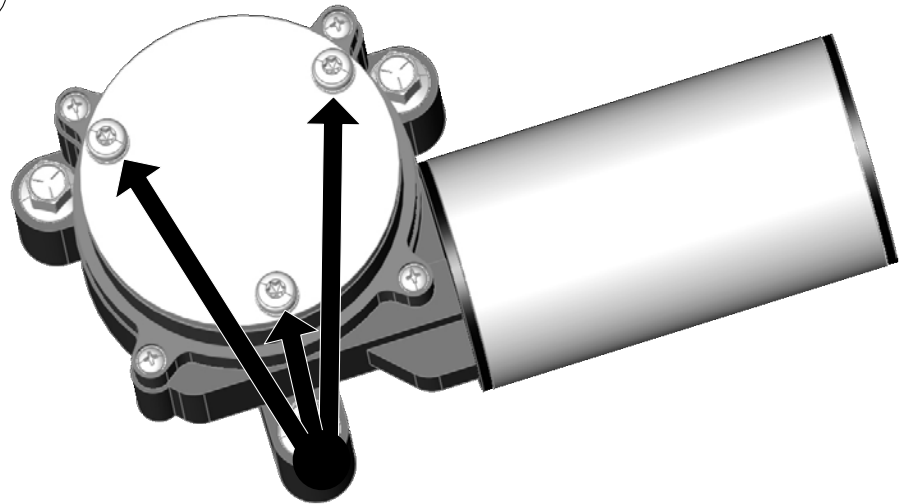
Use wheel chocks to ensure the coach does not move while working underneath it.

1

Locate the shift motor assembly on the driver side of the transmission.



2



Remove the round metal cover by removing the three screws and clean the mating surface of any debris. Longer screws are provided for installation of the switch kit.



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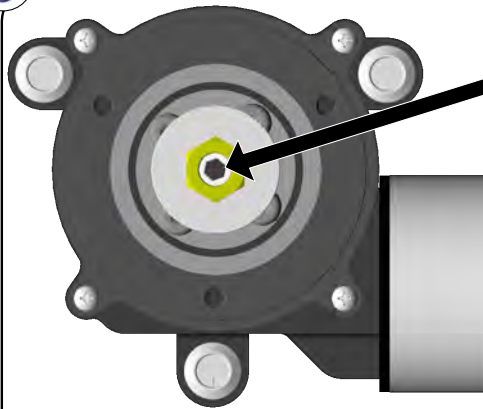
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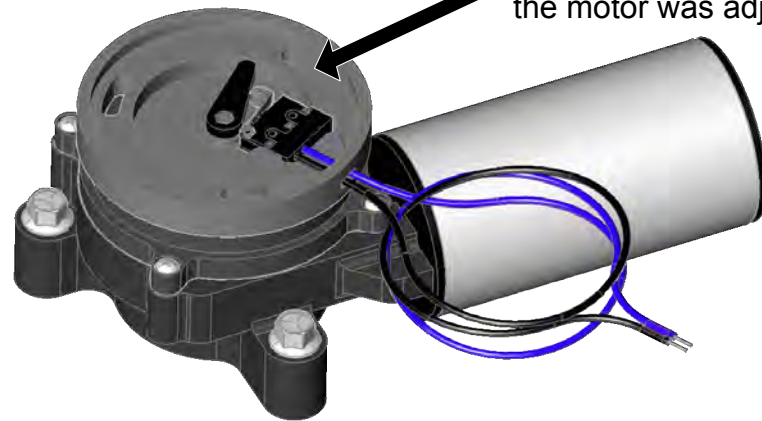
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Located in the center of the motor housing is a hexagon hole. This will be what is used to rotate the lever arm to activate the new park switch.

Insert the hex shaft from the new switch assembly in an orientation that allows the switch housing to rotate and reach the lever, while keeping the three elongated holes in the switch assembly lined up with the 3 mounting holes that held the original metal cover in place.



Once assembled rotate the switch housing until the lever presses (Clicks) the switch. It is possible that the holes on the switch housing need to be elongated slightly depending on how the motor was adjusted when originally installed at the factory..

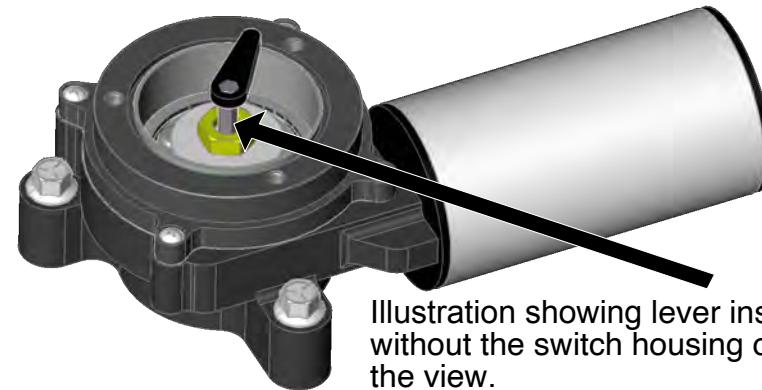


Illustration showing lever installed without the switch housing obstructing the view.



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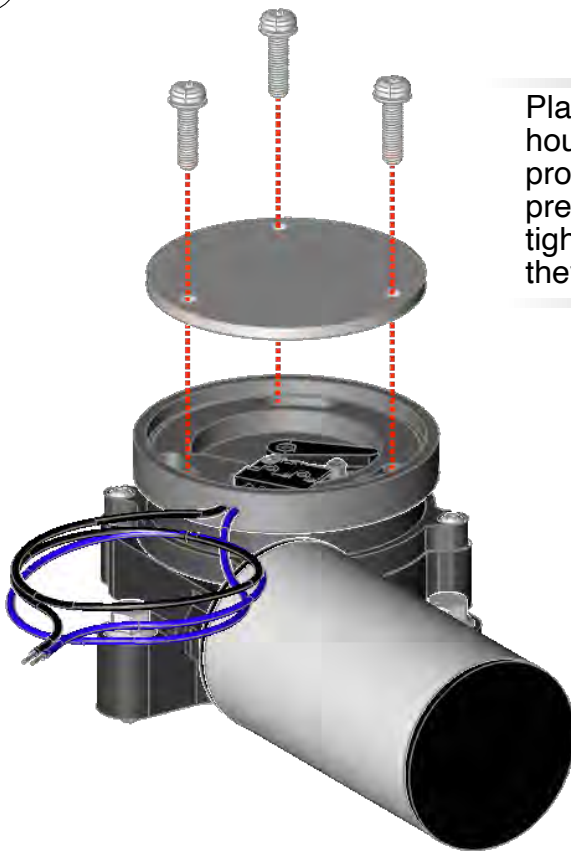
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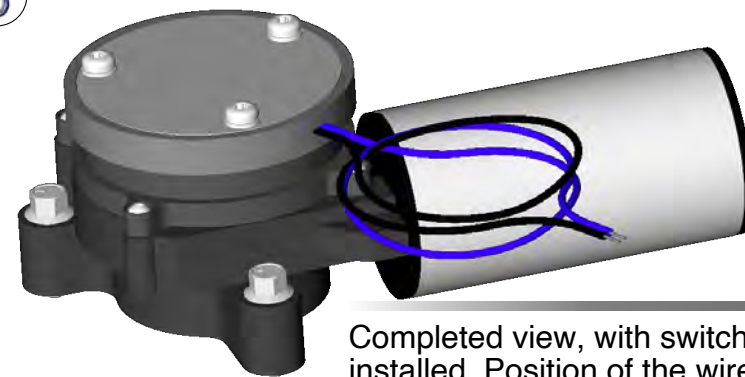
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Place the original metal cover plate with the supplied o-ring and spacer plate between the housing and the metal cover onto the new switch housing, and loosely install the provided screws using a T25 torx bit. Hold the housing and cover in place so that it is pressing the switch with the lever arm and tighten the screws to 12 inch-pounds. After tightening, verify that the wires coming from the switch have continuity between the two. If they do not, repeat the adjustment and tightening procedure again.

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Completed view, with switch and cover installed. Position of the wires will vary depending on the adjustment needed.



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Wiring the park position switch:

Bulk wire is not provided in this kit, we recommend 18 gage wire in 1/4" convoluted loom to complete these wiring steps.

- Route one wire to a 12vdc fused ignition source (inline 10 amp fuse).
- Route the remaining wire to the parking brake control module. Included in the kit is a short wire with a terminal on one end, attach it to the end of the wire.
- Insert that new terminal into PIN#12 of the parking brake controller 14 PIN connector.

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Dash Switch Installation:

1. Drill a mounting hole in the dash with a 9/16" drill bit (Step bit preferred) and use the panel nut and roll pin to assemble and install the switch and knob.
2. Insert the provided pigtail connector into the back of the dash switch.
3. Connect one of the wires to a solid chassis ground.
4. The other wire will be connecting to the wire going to PIN#4 on the 14 PIN connector at the parking brake controller.
5. Cut the factory wire going to PIN#4 about 4 inches back from the connector and fold and tape the rest of the wire back into the
6. harness, as it will be unused.
7. Connect the remaining 4 inches of wire coming out of the connector to the wire that comes from the dash switch.



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Testing Procedure

On flat ground:

1. Start the engine.
2. Press yellow dash switch **IN**.
3. Shift the transmission into **DRIVE**
with your foot on the brake pedal.
4. Slowly release foot from brake pedal.
5. Coach should move forward.

Move coach onto an incline position for next steps.

With the front of the coach facing downhill:

1. Come to a complete stop and shift into **PARK** and release foot from brake pedal while leaving push/pull switch pressed in.
Coach should not move.
2. Shift the transmission to **DRIVE** and pull **out** the push/pull switch. Release foot from brake pedal. Coach should not move.

If all the above works as described, then you are all set. If the steps above do not happen as described, then please call our product support line at 800-417-4559 or send an email to help@rwb-inc.com with the issue you are having.



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