

Group:	27 – Electrical
Warranty Code:	333
Bulletin No.:	SB-13-003
Issue Date:	07/02/2013

S E R V I C E B U L L E T I N

Parking Brake Switch

CONDITION:

In some cases the parking brake lamp indicator may remain illuminated with the parking brake lever in the “off” position. This TSB (Technical Service Bulletin) will provide instructions for installing an enhanced parking brake switch and adding a shorting pin in place of the parking brake switch relay.

SUBJECT VEHICLES:

2011 through 2014 model year NE8J Conventional Hino Trucks equipped with hydraulic brakes. These trucks were assembled at the Williamstown West Virginia assembly plant.

BEFORE YOU BEGIN:

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **WARNINGS** and **NOTICES** set forth in this publication. These alerts help to avoid damage to components, serious personal injury, or both.
- Parking the vehicle on a level and solid surface and apply the parking brake.
- Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.
- Wear safety glasses to prevent eye injuries.
- Place wheel chocks in front of and behind all wheels.

PARTS:

PART NUMBER	COMPONENT DESCRIPTION	QUANTITY
04003033E0	Parking Brake Switch Kit	1

KIT CONTENTS:

PART NUMBER	COMPONENT DESCRIPTION	QUANTITY
84080E0010	Parking Brake Switch	1
82675E0210	Shorting Pin	1



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VEHICLE PREPERATION:

1. Park the truck on level ground.

2. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brake.



4. Chock all of the wheels.



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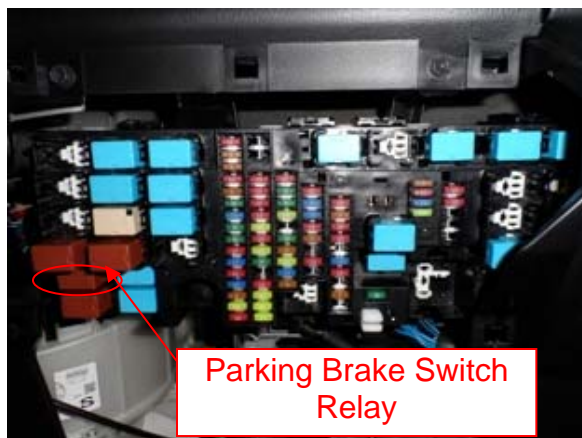
REPAIR PROCEDURE:

Parking Brake Switch Relay Removal

1. Remove the lower right cover.



2. Remove the parking brake switch relay and discard.

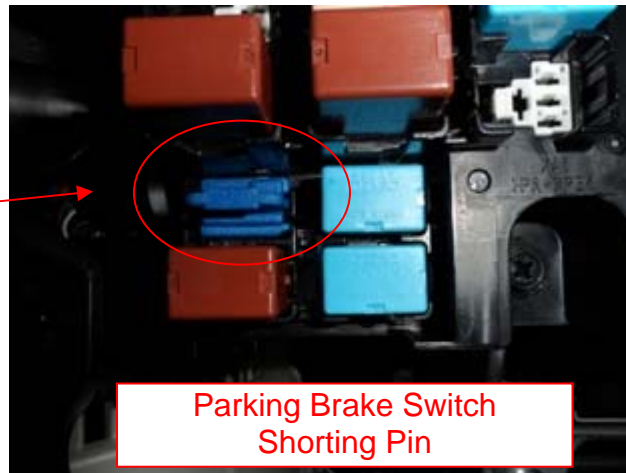
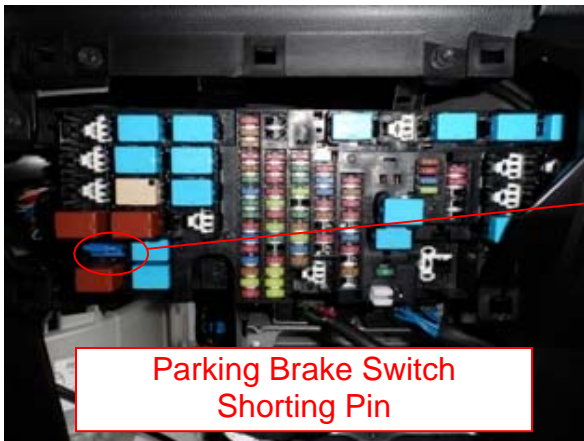


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Parking Brake Switch Shorting Pin Installation

1. Install the new parking brake switch shorting pin.



2. Install the lower right cover.



Parking Brake Switch Removal

1. Remove the 2 screws securing the parking brake lever assembly cover and then remove the cover.



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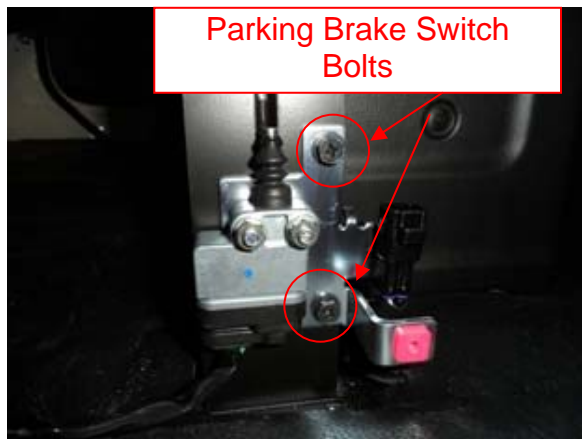
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2. Disconnect the parking brake switch electrical connector.



3. Remove the 2 bolts securing the parking brake switch to the parking brake lever assembly.

NOTE: If a bumps stop bracket was previously installed please remove and discard.



4. Disconnect the electrical harness clip from the parking brake switch and remove the switch from the vehicle.



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5. Remove the button from the parking brake switch. Discard the switch.

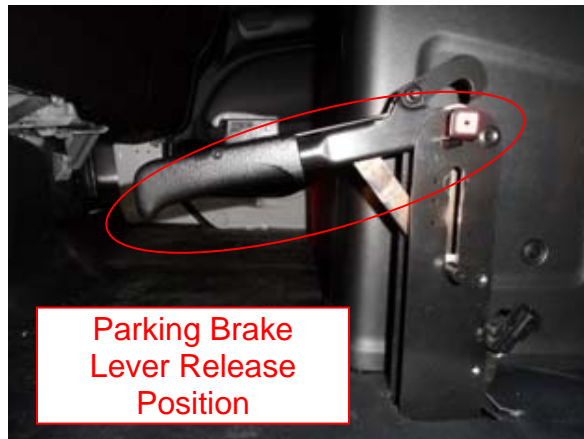
NOTE: Do not discard the button. This will be reused during the parking brake switch installation.



6. Proceed to the “Parking Brake Cable Adjustment” section.

Parking Brake Cable Adjustment

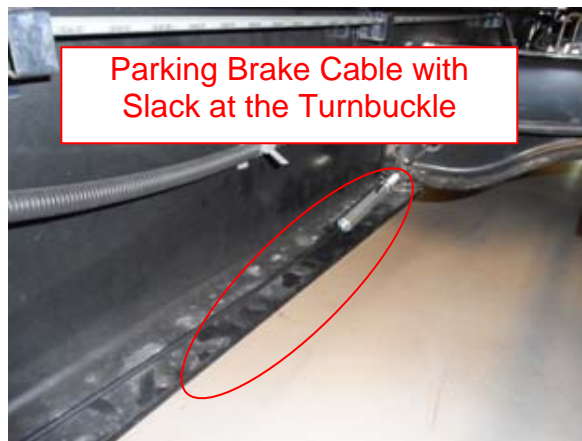
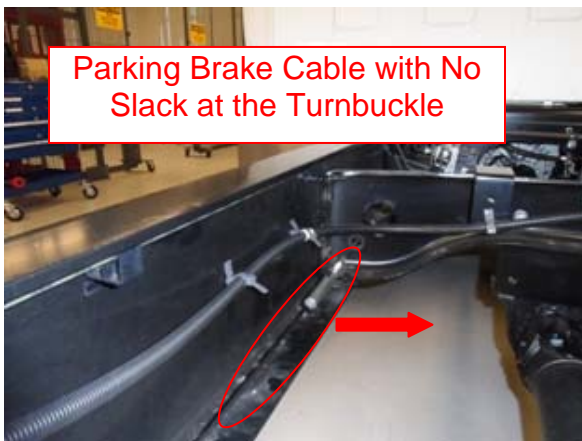
1. Release the parking brake lever.



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2. Locate the parking brake cable turnbuckle on the inside edge of the driver side frame rail. Using your hand pull the cable inward toward the driveshaft to reposition the slack in the parking brake cable from the parking brake lever assembly to the turnbuckle. Release your hand from the parking brake cable.



3. Loosen the lock nut on the parking brake cable turnbuckle.



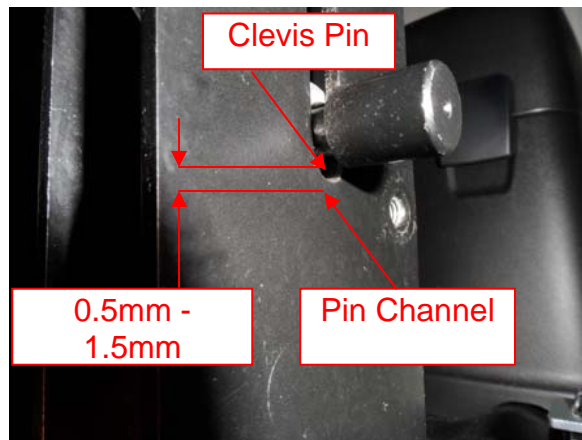
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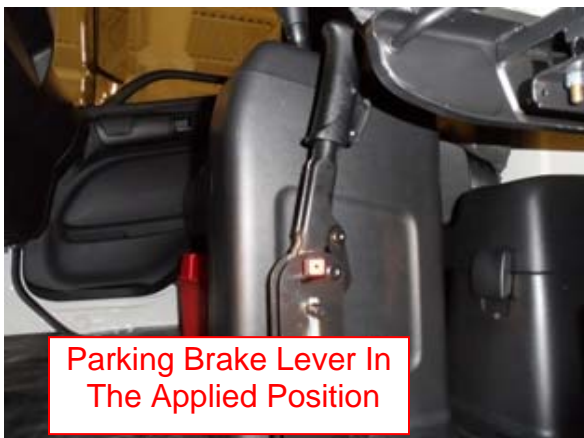
- Adjust the turnbuckle until the parking brake cable free play is within specification. The cable free play should be measured at the parking brake lever between the bottom of the parking brake clevis pin channel and the bottom point of the parking brake clevis pin, more specifically the portion of the clevis pin that rides between the sides of the channel.

Free Play Specification: 0.5mm - 1.5mm

NOTE: The clevis pin has a larger diameter head. This portion of the clevis pin should NOT be used to set the free play specification.



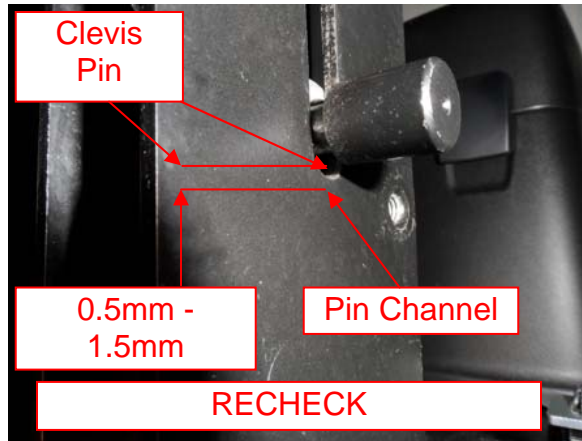
- Apply and release the parking brake 3 times.



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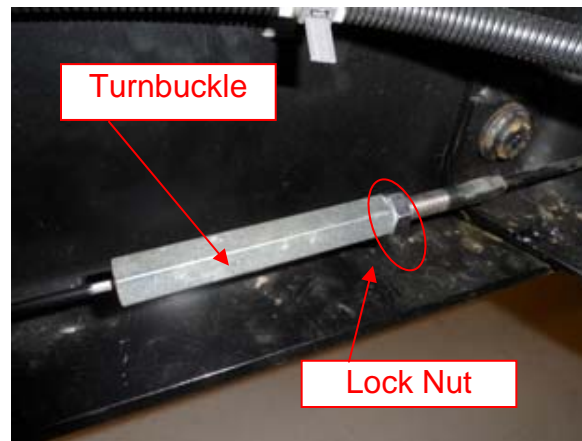
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- While moving the parking brake lever, recheck and confirm the parking brake cable free play specification at the parking brake lever. Adjust the parking brake turnbuckle as needed to meet the free play specification.



- Tighten the parking brake turnbuckle lock nut to the specified torque.

Specified Torque: 20.0 lb-ft (27.0 Nm)



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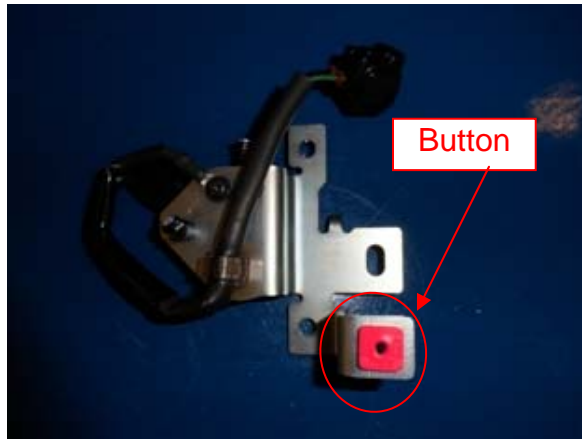
8. Apply the parking brake.



9. Proceed to the “New Parking Brake Switch Installation” section.

New Parking Brake Switch Installation

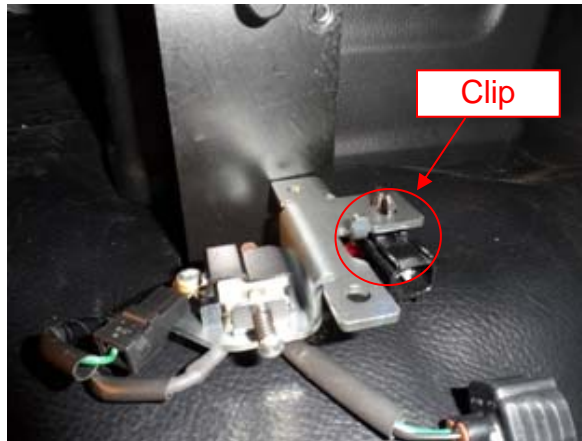
1. Install the previously removed button to the new parking brake switch.



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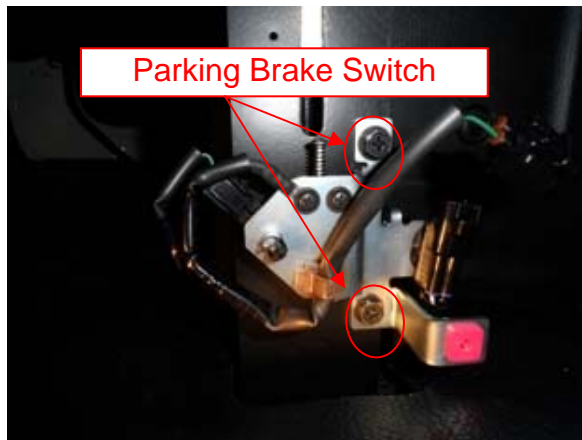
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2. Connect the parking brake electrical harness clip to the new parking brake switch.

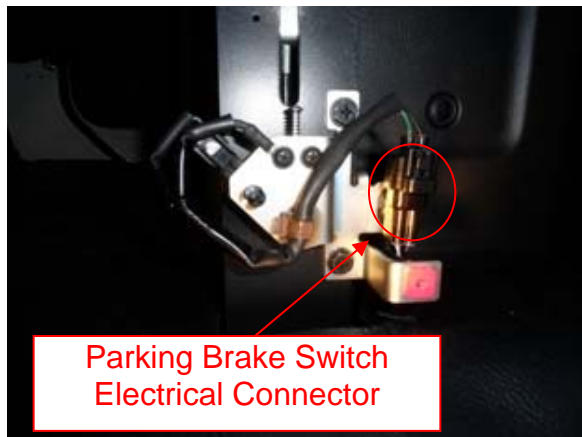


3. Install the new parking brake switch to the parking brake lever assembly. Install the 2 mounting bolts and tighten to the specified torque.

Specified Torque: 3.3 lb-ft (4.5 Nm)



4. Connect the parking brake switch electrical connector.

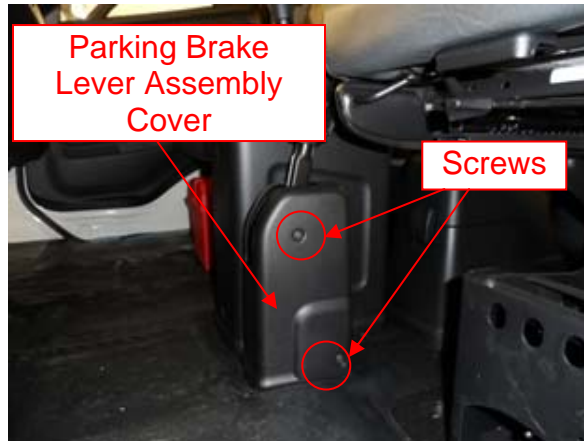


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5. Install the parking brake lever cover and 2 screws securing the cover. Tighten the 2 screws to the specified torque.

Specified Torque: 1.5 lb-ft (2.0 Nm)



6. Proceed to the “Setting the Parking Brake Lever Pull Force” section.

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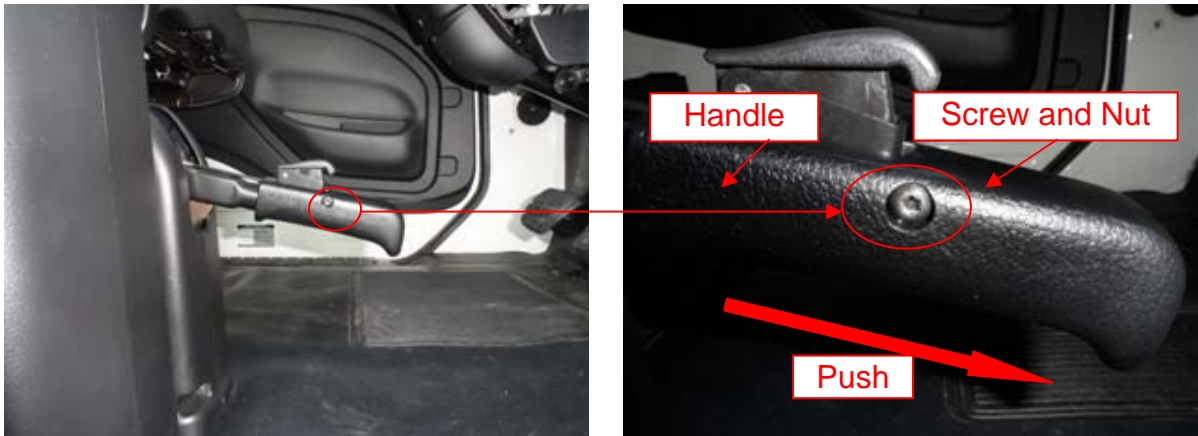
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Setting the Parking Brake Lever Pull Force

1. Release parking brake.



2. Remove the screw and nut for the parking brake lever handle and then remove the handle by sliding the handle toward the front of the vehicle.



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3. Check the pull force of the parking brake lever and compare to the specification. Does the parking brake lever pull force meet the specification?
 - **Yes**, the pull force meets the specification. Proceed to step 5 in “Setting the Parking Brake Pull Force” section.
 - **No**, the pull force does not meet the specification. Proceed to step 4 in “Setting the Parking Brake Lever Pull Force” section.

Pull Force Specification: 163 - 199 lb-ft (220.5 - 269.5 Nm)



4. Rotate the adjustment knob on the parking brake lever clockwise to increase the pull force and counterclockwise to decrease the pull force. Set the parking brake lever pull force to the specification called out in step 3 in “Setting Parking Brake Pull Force” section.

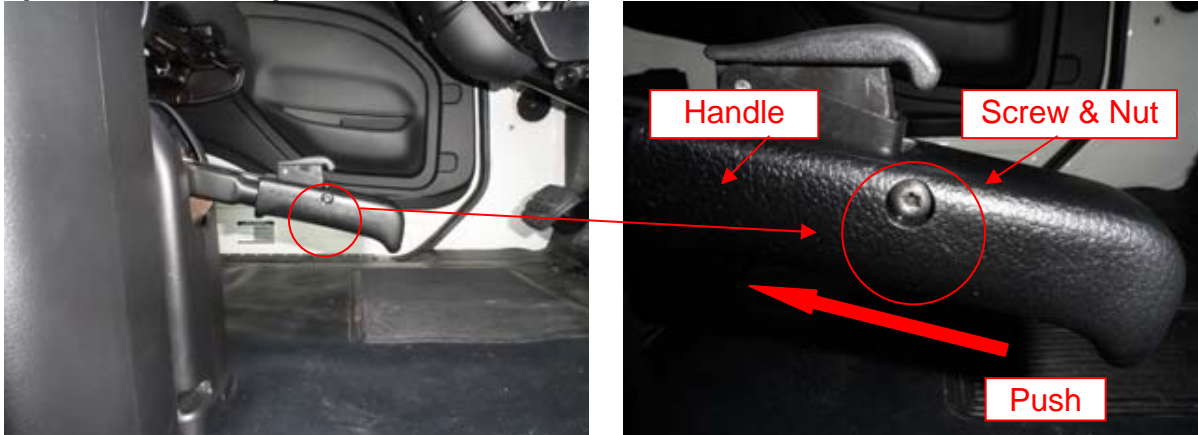


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5. Install the parking brake lever handle with the screw and nut. Tighten the screw to the specified torque.

Specification Torque: 1.1 lb-ft (1.5 Nm)



6. Proceed to the “Final Inspection” section.

FINAL INSPECTION:

To complete this campaign procedure, review the campaign and confirm the following:

- The parking brake lever pull force is within specification.
- The parking brake cable turnbuckle locknut is torqued to specification.
- All components that were removed and/or replaced have been properly installed and fasteners torqued to their specification.
- The parking brake lamp works correctly with the parking brake lever in the applied and unapplied positions.

Claim Application:

- 1) Labor charge: 0.8 hr / unit
- 2) Warranty code: 8345140
- 3) Operation code: 83450AOT
- 4) Original failed part number: 84550E0030