



To: Dealer Principals
Parts Managers
General Managers
Service Managers

Bulletin:
Date & Time:
HinoNet Location:
Expiration Date:

PA-2015-015
February 18, 2015
Parts Marketing
April 30, 2015

Subject: Hino Brake Lever- Dealer Inventory Relief Program

The Hino Dealer body has done an outstanding job supporting customers who required brake levers prior to the current Brake Lever Recall A9970. It is now our responsibility to ensure that those older design Brake Levers and related parts (listed below) are removed from your inventory and destroyed.

Affected Parts:

Old Item	Description	Replacement PN
46210E0080	LEVER ASSY- PARKING BRAKE	46210E0114
04003120E0	PARKING BRAKE KIT	See Recall A9970 For Model Year Based Kits
04003121E0	WASHER KIT	NLA

Please make certain that these old items are marked **Not For Sale**, removed from your shelf and held for review and disposal by Hino:

The Hino District Parts Managers (DPM) will be making arrangements for an onsite inventory assessment and disposal of the affected items. Once your inventory is counted and disposal is document by the DPM, Hino will issue a credit based on your last purchase price for each of the items.

We anticipate that all affected dealers will be completed and credited by April 30, 2015. All Items must be witness scrapped so please ensure that you work with your Hino DPM to coordinate this disposal.

Any dealers not completed by our target completion date (April 30, 2015) will be contacted by the PDC to coordinate an alternative disposal method.

Thank you,

Your Hino Parts Team!

Hino Trucks, A Toyota Group Company
(662) 342-3939 - Hino PDC

helpdesk@hino.com - Parts Ordering Questions (PDC)
hinoparts@hino.com – Parts E-Mail (Corporate)



Brake Lever Parts Return Form Dealer/District Parts Manager Use

This form should be completed by the Hino District Parts Manager in coordination with the Hino Dealership

TODAY'S DATE:

DEALER CODE:

DEALER NAME:

Affected Parts that were scrapped:

Old Item	Description	Quantity Scrapped
46210E0080	LEVER ASSY- PARKING BRAKE	
04003120E0	PARKING BRAKE KIT	
04003121E0	WASHER KIT	

We have confirmed that these affected items were removed from inventory and disposed of by the dealership. No additional items remain on the dealer premise.

Once this form is returned to the Hino PDC we will credit the dealer parts account accordingly.

Hino DPM Signature

Hino Dealer Representative Signature

ONCE COMPLETED FAX FORM TO THE HINO PDC @ 662-342-5151

S A F E T Y R E C A L L

SUBJECT: Parking Brake Lever Wear

DATE: 01/26/2015

BULLETIN NO.: RCB-003-15

CAMPAIGN NO.: A9970

AFFECTED MODELS: 2011- 2015MY NE8J Conventional Hino Trucks Equipped with Hydraulic Brakes.

NOTE: Refer to the appropriate Vehicle Identification Number (VIN) list to determine vehicle eligibility.

CONDITION:

If the parking brake is not released in accordance with the instructions in the Driver's/Owner's Manual (such as releasing the parking brake lever only by pushing the lever release button, without holding the lever with the hand, until it is completely released), the tension of the brake cable could be released quickly, causing an increase in the friction between the long hole in the slide area and the cable joining pin. In addition, improper adjustment of the parking brake cable that is stretched due to repeated operation of the parking brake could increase the contact force between the cable joining pin and the long hole in the slide area of the parking brake lever during the operation of the parking brake. If the parking brake continues to be operated in such a condition, the long hole in the slide area of the parking brake lever becomes worn and the long hole diameter becomes enlarged.

If that condition occurs, the washer fixed to the cable joining pin can become stuck in the worn and enlarged long hole when the parking brake lever is pulled. This situation may prevent the parking brake lever being pulled to its full stroke, leading to the application of insufficient brake force. In the worst case situation, vibration can cause the washer which is stuck in the worn and enlarged long hole to come off, releasing the parking brake lever and resulting in the vehicle moving.

SUBJECT VEHICLES:

2011 through 2015 MY NE8J Conventional Hino Trucks equipped with hydraulic brakes. These vehicles were assembled at the Williamstown West Virginia, U.S.A. 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.
- Park the vehicle on a level and solid surface and apply the parking brake.
- Confirm 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.

S A F E T Y R E C A L L

Once Recall Is Completed
Complete a recall sticker and affix to the left door jam above the V.I.N. decal.



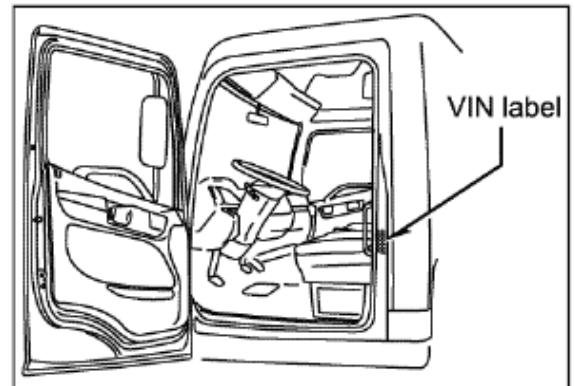
HINO  **TRUCKS**TM
A Toyota Group Company

Campaign No.: _____

Dealer code: _____

Repair date: ____/____/____
(MM / DD / YY)

DO NOT REMOVE



NOTE: Verify Application and note Kit Part Number from chart below

PART APPLICATION CHART:

PART NUMBER	PART DESCRIPTION	QUANTITY
46210E0114	PARKING BRAKE LEVER	1
84080E0011	PARKING BRAKE SWITCH ASSY	1
82675E0210	SHORTING TERMINAL	AS NEEDED
46410E0011	PARKING BRAKE CABLE(G WHEELBASE)	AS NEEDED
46410E0021	PARKING BRAKE CABLE(NON G WHEELBASE)	AS NEEDED

S A F E T Y R E C A L L

VEHICLE PREPARATION:

1. Park the vehicle 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.



SAFETY RECALL

REPAIR PROCEDURE:

Pull Force Check

1. Release the parking brake.

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



3. Set the parking brake lever adjustment to its highest point by rotating the adjustment knob clockwise until it stops. When the parking brake is applied, the pin should travel to the top of the pin channel. Refer to the photograph to the right for reference.



SAFETY RECALL

- Using a pull gauge, measure the maximum operating force of the parking brake lever at 20mm from the edge of the lever.

245N or Higher

→ Proceed to “Parking Brake Lever Replacement”

Lower than 245N

→ Proceed to step 5 to check the parking brake drum and cable for proper adjustment.



NOTICE:

Pull the parking brake lever slowly from ON to OFF when measuring the operating force as pulling the lever quickly could cause variation in the value.

- For automatic transmissions, place the gear selector into the (N) neutral position. For manual transmissions, make certain that the transmission is in neutral. This will allow the parking brake drum to be rocked back and forth to check parking brake drag. Ensure the parking brake is released.

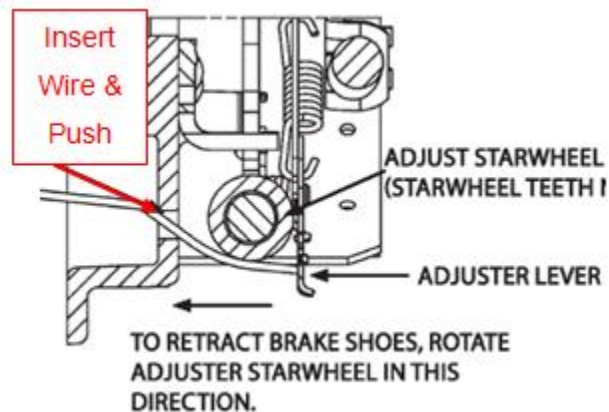


S A F E T Y R E C A L L

6. Before the park brake cable can be adjusted, it is necessary to adjust the park brake shoes. Locate the adjuster starwheel slot at the back side of the park brake drum near the bottom of the drum. To adjust the shoes, use a flat blade screwdriver to rotate the starwheel downward to expand the park brake shoes within the park brake drum. Stop rotating the starwheel downward once the park brake drum can no longer be rotated by hand (park brake shoes contact the drum).



7. The park brake shoes must now be backed off to allow the park brake drum to turn freely. Insert a piece of stiff wire such as a welding rod or solid core copper electrical wire into the adjuster starwheel slot to the left of the starwheel to disengage the adjuster lever. Rotate the starwheel upward using a flat blade screwdriver to disengage the park brake shoes from the park brake drum. Stop rotating the starwheel once the park brake drum can be rotated freely by hand without any drag.



S A F E T Y R E C A L L

- Repeat step 4 above to re-measure parking brake lever pull force.

If greater than 245N

→ Proceed to “Parking Brake Lever Replacement”

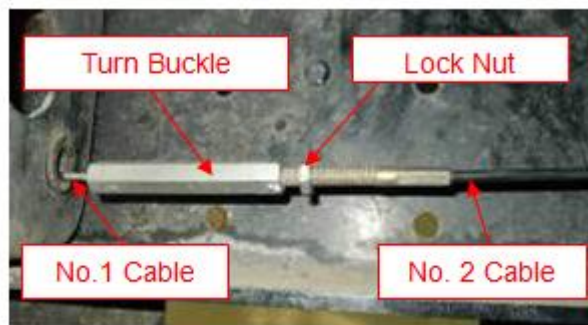
If less than 245N

→ Continue to step 9 to check cable adjustment.

- 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.



- Loosen the turnbuckle lock nut on the No.2 parking brake cable. Rotate the turnbuckle clockwise to completely tighten the parking brake cable.



SAFETY RECALL

11. Again check the parking brake lever pull force as outlined in step 4. If pull force continues to be less than **245N** the No. 1 parking brake cable will need to be replaced during the parking brake lever replacement. Refer to the parts list for the correct cable depending on the vehicle wheelbase.

Proceed to “Parking Brake Lever Replacement”

Parking Brake Lever Replacement

1. Remove the 2 screws securing the parking brake lever assembly cover and then remove the cover. Retain these parts for reassembly.



SAFETY RECALL

2. Disconnect the park brake switch electrical connector.



3. Remove the 2 bolts securing the park brake switch to the park brake lever assembly. Retain the bolts for reassembly.



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

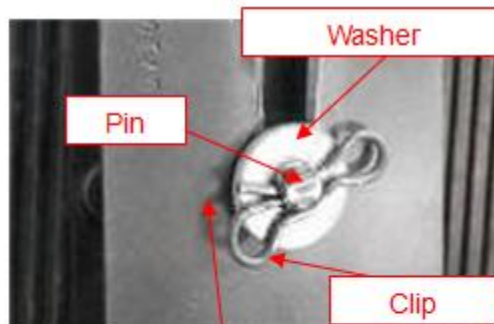


SAFETY RECALL

5. Remove the button from the parking brake switch and retain for reassembly. Discard the old parking brake switch.

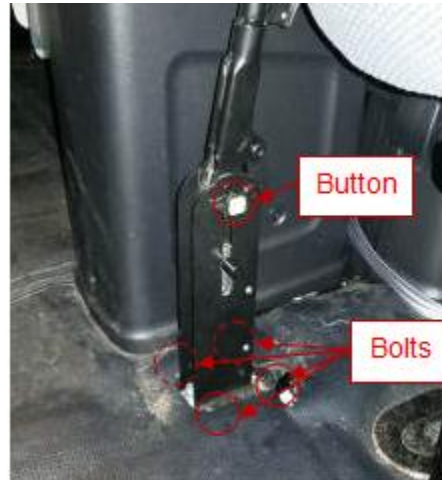


6. With the parking brake lever in the released position, remove the clip from the clevis pin, and then remove the clevis pin that retains the parking brake cable to the parking brake lever. Dispose of the washer, clip and pin.



SAFETY RECALL

7. Remove the 4 bolts securing the parking brake lever to the cab. Remove the lever from the vehicle. Remove the plastic button from the lever. Retain the bolts and plastic button for reassembly. Discard the old lever.



8. If it was previously determined that the No. 1 parking brake cable needed to be replaced, remove the two nuts retaining the cable to the cab. Retain these nuts for re-assembly.

If cable replacement is not necessary, skip to step **16**.



9. Rotate the turnbuckle counter clockwise to disconnect the No. 1 and No. 2 cables.



S A F E T Y R E C A L L

10. Working from inside the left frame rail behind the cab, remove the nuts retaining the parking brake cable clamps. Remove the clamps. Retain for reassembly.



11. Depress the locking tangs on the end of the cable and slide the cable out of the mounting bracket. Discard the old parking brake cable.



12. Insert the new cable into the mounting bracket. Ensure that all locking tangs on the end of the cable are properly engaged.



Non-G Wheelbase: 46410-E0021
G Wheelbase: 46410-E0011

S A F E T Y R E C A L L

13. Reinstall the cable clamps and nuts and tighten to the specified torque.

Specified Torque: 22Nm(16 lb-ft)



14. Connect both the No. 1 cable and the No. 2 cable. Ensure that the turnbuckle is threaded in at least 15mm. Do not tighten the jam nut at this time.



15. Insert the cable into the floor of the cab and reinstall the previously removed nuts. Tighten to the specified torque.

Specified Torque: 51Nm(38 lb-ft)



SAFETY RECALL

16. Install the new parking brake lever (46210-E0114) using the 4 bolts removed previously.

Specified Torque: 51Nm(38 lb-ft)



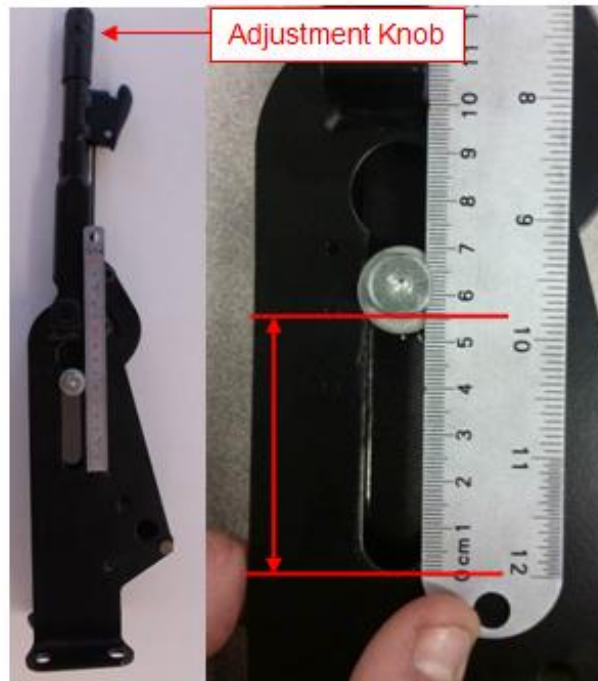
17. Set the lever to the applied position to set the lever adjustment before the cable is connected.



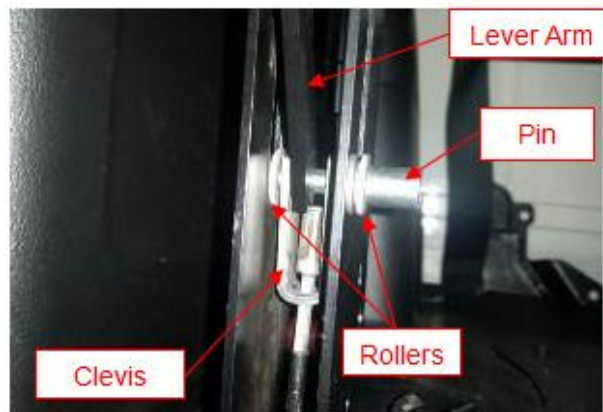
SAFETY RECALL

18. Using the adjustment knob on the lever, set the pin height to the specified value. Refer to the photograph to the right for measurement location.

Standard Pin Height: $56 \pm 2\text{mm}$



19. Release the parking brake lever. Remove the retaining clip and pin from the parking brake lever and connect the cable. Ensure both rollers are engaged by the pin. Reinsert the retaining clip. Proceed to Parking Brake Cable Adjustment.



S A F E T Y R E C A L L

Parking Brake Cable Adjustment

1. Using the turnbuckle on the cable, adjust so that the lever pull force is set to the specified value. If a new cable has been installed as part of this repair, adjust pull force to the break-in value. Cycle the parking brake lever 30 times, then set to the standard value. If the original parking brake cable is used, set to the standard value.

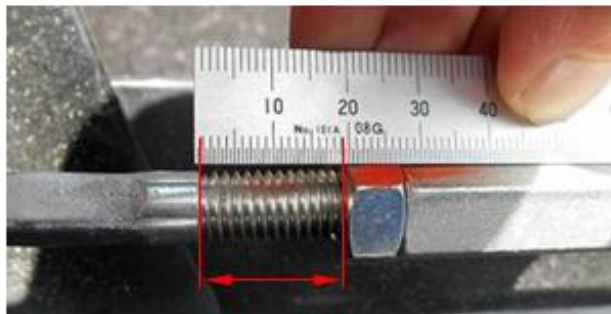
Break in: 363N \pm 24.5N

Standard Value: 257N \pm 24.5N

NOTICE: For minor adjustments, the lever knob can be used as long as pin height is within 56mm \pm 2mm



2. After the pull force adjustment is made, tighten the turnbuckle jam nut to the specified value and confirm that the exposed threads on the No.2 parking brake cable is less than 69mm. The photo to the right shows 19mm of exposed threads. Proceed to Parking Brake Switch Installation.



Specified Torque: 27Nm(20 lb-ft)

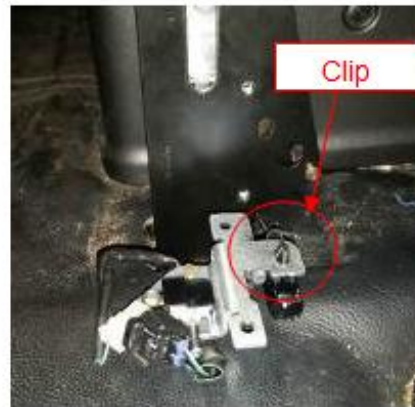
S A F E T Y R E C A L L

Parking Brake Switch Installation

1. Install the previously removed button onto the new parking brake switch (84080-E0011).



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



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

Specified Torque: 3.3 lb-ft (4.5 Nm)



S A F E T Y R E C A L L

4. Connect the parking brake switch electrical connector.



5. For 2011-2013MY vehicles, remove the lower right cover. For 2014-2015MY vehicles, skip to step 9.

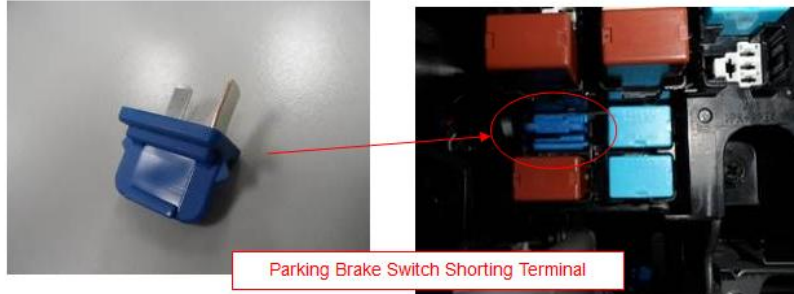


6. Check to determine if the parking brake switch shorting terminal has already been installed. If a relay is present in this location, remove the relay and discard.



SAFETY RECALL

7. Install the park brake switch shorting terminal (82675-E0210) in place of the park brake switch relay.



8. Install the lower right cover.



9. Turn the starter switch to the "ON" position to validate proper parking brake warning lamp operation.



S A F E T Y R E C A L L

10. Apply and release the parking brake several times. Validate that the parking brake warning lamp is off in the released position. If the warning lamp fails to turn off in the released position, ensure the lever is not binding and that the switch and shorting terminal are properly installed.



Parking Brake Console Installation

1. Place the console cover on a work bench with the lever opening facing towards you. In the left side of the opening, trim the alignment rib using side cutters or a utility knife. This will allow the cover to fit over the new parking brake lever. Refer to the photographs for reference.



SAFETY RECALL

2. Install the previously removed button into the new parking brake lever.

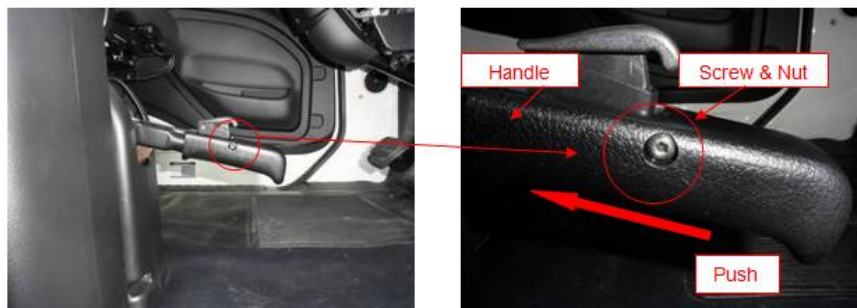


3. Install the parking brake lever cover and 2 screws securing the cover. Tighten the 2 screws to the specified torque.

Specified Torque: 1.5 lb-ft (2.0 Nm)



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



Specified Torque:
1.1lb-ft (1.5Nm)

S A F E T Y R E C A L L

5. Apply the parking brake.



6. Proceed to the “Final Inspection” procedure

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:

- a) Recall No: A9970
- b) Labor charge: Reference chart below
- c) Warranty code: 33310
- d) Trouble code: 98
- e) Operation code: Reference chart below
- f) Original failed part number: 9999999999

	Operation Code	Labor
Lever and Switch Replacement	33350AOT	1.1hr
Lever, Switch and Cable Replacement	33150AOT	2.7hr