

SAFETY RECALL BULLETIN

February, 2018
18R4 (FL754)
NHTSA #17V-730
Transport Canada #17-569

Subject: **Detroit™ DT12™ Transmission Range Spring Detent Screw**

Issue Involved

Daimler Trucks North America LLC, on behalf of its wholly owned subsidiary, Detroit Diesel Corporation, has determined that a defect which relates to motor vehicle safety, exists on specific Freightliner®, New Cascadia®, and Cascadia® trucks with certain Detroit™ DT12™ transmissions.

Detroit Diesel Corporation (DDC) has determined that some certified Model Year 2017 Detroit™ DT12™ transmissions built in Germany need to have their range spring detent tensioning screw and plug removed.

Correctly built transmissions became effective with transmissions manufactured after approximately May 11, 2017. Any model year 2017 transmission manufactured between November 3, 2016, and May 11, 2017, and has the range spring detent tensioning screw and plug installed, may need to have it removed. Note that some trucks may already have been repaired and will be excluded from this program.

Removal of the range spring detent tensioning screw and plug may prevent transmission range shifting issues.

There are approximately 239 transmissions affected by this Safety Recall.

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Transmissions Involved

A list of transmissions located in your area of responsibility that require this correction is attached.

The table below gives descriptive information to help identify the affected units:

Model Series	Model Number	Model Year	Inclusive Vehicle Mfg. Date (From) (To)	Descriptive Information
DT12-DA	715374	2017	November 3, 2016, to May 11, 2017	Freightliner [®] , New Cascadia [®] , and Cascadia [®]

Owner Notification

Detroit Diesel will notify owners of equipment which incorporates transmissions identified with this Safety Recall. A copy of the owner letter that will be used by Detroit Diesel is enclosed with this Safety Recall bulletin.

Distributor / Dealer Campaign Responsibility

Detroit Diesel repair facilities are to service all transmissions subject to this Safety Recall. Safety Recall 18R4 is to be performed, at no charge to owners, on all affected transmissions under the transmission warranty. Please use the appropriate steps, noted below, for indicating that Safety Recall 18R4 has been completed.

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Daimler Trucks North America Vehicles

- Check the base label (**Form WAR259**) to see if **Safety Recall 18R4** has been completed. The base label is usually located on the passenger-side door about 30 cm (12 inches) below the door latch. If **Safety Recall 18R4** has been completed, no further work is needed. If base label is not located on the passenger-side door, please affix label (**Form WAR259**) 30 cm (12 inches) from the door latch.
- Upon completion of **Safety Recall 18R4**, clean a spot on the base label (**Form WAR259**), write the Safety Recall Number (**18R4**) on a blank, black completion sticker (**Form WAR261**), and attach it to the base label.

Ordering Information

1. If you do not have the appropriate Form or Labels (DDC_WAR 259, DDC_WAR 260, DDC_WAR 261), they can be ordered from **EPI Printers** by emailing your order to [**ddc@epiinc.com**](mailto:ddc@epiinc.com)
2. You can also fax in your order to **269-698-4240 Attn: Corrina Cotton**
3. Contact **EPI at 734-464-9000**.

Parts Information

There are no parts required for this Recall.

Corrective Procedure

1. Park the vehicle on a level surface, apply the parking brake, chock the wheels, and perform any other applicable safety steps.

⚠ WARNING:

PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

⚠ CAUTION:

ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

2. Disconnect the batteries at the negative post, including the batteries for the auxiliary HVAC, if equipped.
3. Check the range shift fork detent spring nut cap for a green mark. Refer to Figure 2 for the location of the range shift fork detent spring nut cap. Is there a green mark? Refer to Figure 1.
 - a. Yes; no further work is necessary. Proceed to step 10.
 - b. No; proceed to step 4.



Figure 1 – Range Shift Fork Detent Spring Nut Cap Green Mark

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4. Remove the transmission. In the *Detroit Transmission Manual* (DDC-SVC-MAN-0140), refer to chapter “DT12 Transmission” and section “Removal of the Transmission”.

NOTICE:

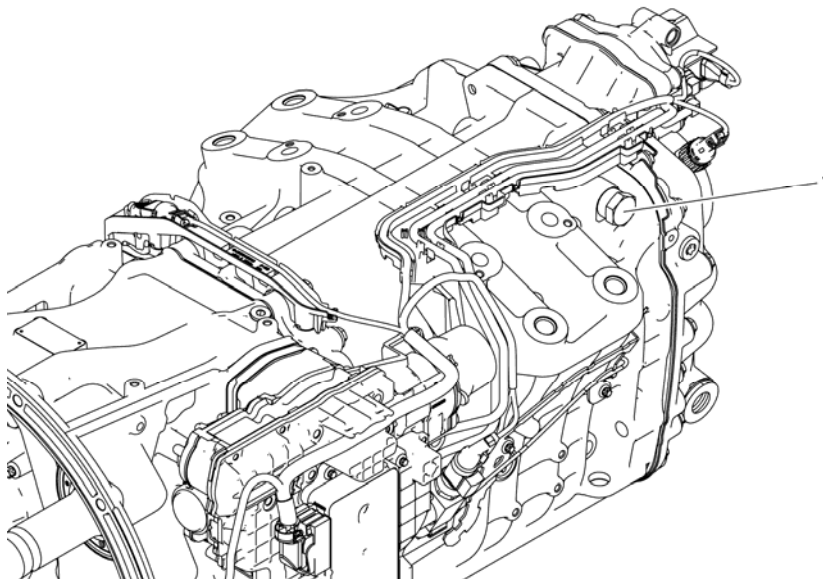
The range detent spring is under pressure, and must be held back to prevent the spring from catapulting the shift fork detent spring nut cap, possibly causing thread damage to the case and potential injury from flying parts.

WARNING:

EYE INJURY

To avoid injury from flying parts when working with components under spring tension, wear adequate eye protection (face shield or safety goggles).

5. Remove the range shift fork detent spring nut cap (1). As the nut is removed, push in with enough force to prevent the spring from catapulting the nut cap. See Figure 2.



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Figure 2 – Range Shift Fork Detent Spring Nut Cap

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6. Remove the plug and the tensioning screw from the assembly and discard them. See Figure 3.



Figure 3 – Removal of Plug and Tensioning Screw

7. Apply Loctite 263 or 270 to the threads of the range shift fork detent spring nut cap and reinstall the detent, spring and nut cap into the transmission. You will need to push on the nut cap towards the transmission to compress the spring (80 lbs) when installing it. Tighten the nut cap to 100 N·m (74 lb·ft). See Figure 4.



Figure 4 – Installation of Range Shift Fork Detent Spring Nut Cap

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8. Install the transmission. In the *Detroit Transmission Manual* (DDC-SVC-MAN-0140), refer to chapter “DT12 Transmission” and section “Installation of the Transmission”.
9. Road test vehicle to confirm repairs.
10. Repairs are complete.

Notice

Claim administration time, SRT 939-6010A, for 0.3 hours will automatically be added. No additional operation is required or will be allowed.

Warranty Information

Claim Type:	04
Modification	18R4
Fault Type:	ZZ
Primary Failed Part:	25-FL754-000
Labor Code:	996-R184A - Inspect the detent spring nut cap for a green mark
Labor:	0.3 Hours
Labor Code:	996-R184B - Range spring detent screw removal
Labor:	6.9 Hours
Parts Return:	NONE

Please contact the Detroit™ Customer Support Center at 800-445-1980 or email csc@daimler.com if you have any questions.

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BULLETIN