

SAFETY RECALL BULLETIN

November 2015
15R-3 (FL-691)
NHTSA #15V-613
Transport Canada #15-485

Subject: **Detroit Axle Steering Arm Capscrew Replacement**

Issue Involved

Daimler Trucks North America LLC has decided that a defect that relates to motor vehicle safety exists on specific Freightliner 108SD, 114SD, 122SD, Business Class M2, Cascadia model vehicles and Columbia and Coronado gliders manufactured June 17, 2015, through October 1, 2015, with certain Detroit Axles.

On certain vehicles, the steering arm capscrews that join the steering arm to the knuckle may not have been torqued to specification. Loose steering arm capscrews may result in a loss of steering, increasing the risk of a crash.

Replacement of the steering arm capscrews will be required because a previous torque inspection has already been completed. Also, the joint between the steering arm and steering knuckle will need to be inspected for damage, and those parts replaced if necessary.

Correct steering arm capscrew torque became effective with front axles manufactured in Saltillo, Mexico, after September 7, 2015. Any model year 2015 Model 2, Model 3, and Model 5 front axle manufactured in Saltillo, Mexico, between June 29, 2015, and September 7, 2015, will need the steering arm capscrews replaced. Note that some axles built within this time frame may already have been inspected and/or repaired, and therefore excluded from this Safety Recall.

Replacement of the capscrews will prevent performance issues that may result in customer dissatisfaction.

There are approximately 733 vehicles affected by this Safety Recall.

Vehicles Involved

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

Safety Recall Bulletin 15R3

Page Two

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

Front Axle Model Series	Front Axle Model Number	Model Year	Inclusive Front Axle Mfg. Date (From) (To)	Descriptive Information
Model 2	DA-F-8.0-2	2015	June 29, 2015 to September 7, 2015	Manufactured in Saltillo, Mexico
Model 3	DA-F-8.0-3 DA-F-10.0-3 DA-F-12.0-3 DA-F-12.5-3 DA-F-13.0-3 DA-F-13.3-3 DA-F-14.7-3	2015	June 29, 2015 to September 7, 2015	Manufactured in Saltillo, Mexico
Model 5	DA-F-16.0-5 DA-F-18.0-5 DA-F-20.0-5	2015	June 29, 2015 to September 7, 2015	Manufactured in Saltillo, Mexico

Owner Notification

Detroit Diesel will notify owners of equipment incorporating axles 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.

Dealer Campaign Responsibility

Detroit Diesel authorized Detroit Axle repair facilities are to service all axles subject to this Safety Recall. Safety Recall 15R3 is to be performed at no charge to owners on all affected axles under the provisions of this Safety Recall.

Please use the appropriate steps, noted below, for indicating that Safety Recall 15R3 has been completed.

Daimler Trucks North America Vehicles

- Check the base label (**Form WAR259**) to see if **Safety Recall 15R3** 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 15R3** 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.

Safety Recall Bulletin 15R3

Page Three

- Upon completion of **Safety Recall 15R3**, clean a spot on the base label (**Form WAR259**), write the Safety Recall Number (**15R3**) 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 **RR Donnelly** by going to **www.DDCSN.com** and clicking on Literature / Ordering Literature.
2. You can also fax in your order to **(800) 773-1430 – ATTN: Jacqueline**
3. Contact **RR Donnelly** at **(800) 280-4520**.

Parts Information

Replacement of the capscrews is required. If the inspection results require steering arm and steering knuckle replacement, the required parts for this repair are shown below in Table 1.

Model Series	Part Number	Quantity	Description
Model 2 and Model 3	MBA 308676020025	2	Capscrew – M20 x 1.5 x 80mm
Model 5	MBA 308676024003	2	Capscrew – M24 x 2.0 x 90mm
All Models	Reference accessfreightliner.com and PartsPro		Steering Arm
All Models	Reference accessfreightliner.com and PartsPro		Steering Knuckle
All Models	PEX 27010 or locally available equivalent	1	Loctite 277 Red Threadlocker or equivalent

Table 1 – Parts Information

Corrective Procedure

1. Park the vehicle in the designated repair area and turn the steering wheel all the way to the left to expose the steering arm on the driver's side of the vehicle.
2. Apply the parking brake, turn off the ignition, chock the rear wheels, disconnect the batteries, and perform any other applicable safety steps.
3. Remove the two steering arm capscrews, and remove the steering arm.
Reference section "Disassembly of the Steering Knuckle" in the Front Axles chapter of the *Detroit Axles Manual* (DDC-SVC-MAN-0141). See Figure 1.

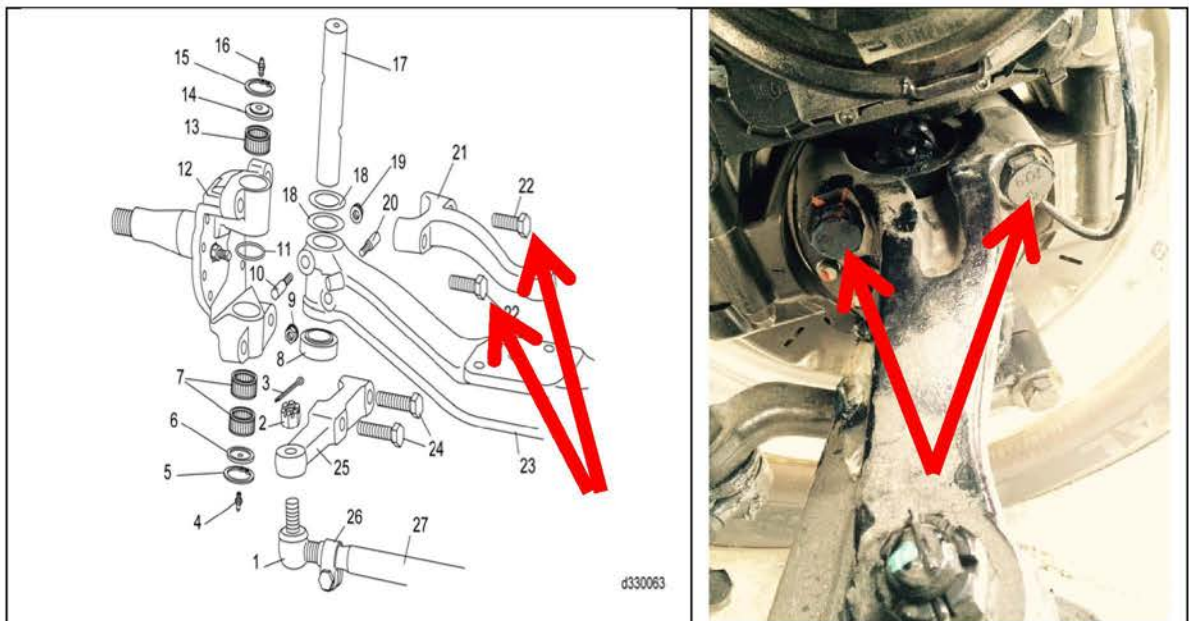


Figure 1 – Steering Arm Capscrew Location

Safety Recall Bulletin 15R3

Page Five

4. Inspect the joint surface between the steering arm and steering knuckle for signs of fretting, dents, or other damage from the loose capscrew(s). See Figure 2 for examples of damaged parts, and Figure 3 for an example of a new part.

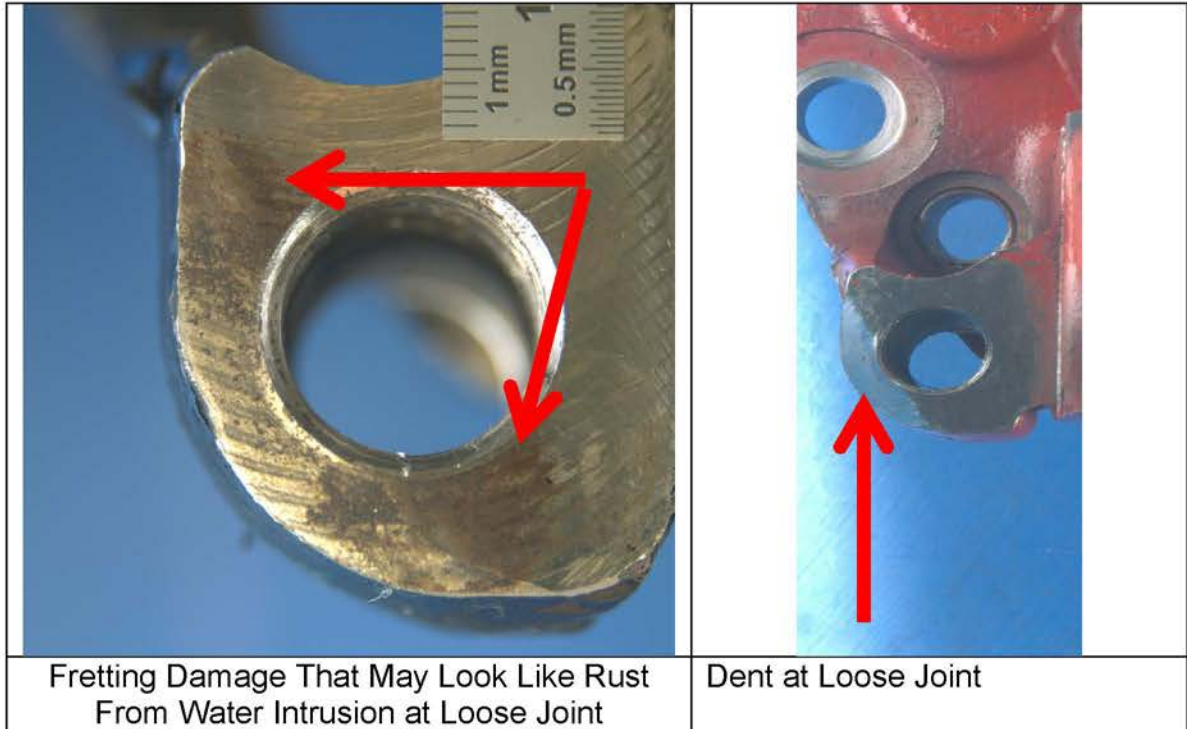


Figure 2 – Damaged Joint Surfaces



Figure 3 – New (Undamaged) Joint Surface

5. Are the joint surfaces of either the steering arm or steering knuckle damaged?
 - a. If Yes, then proceed to step 6.
 - b. If No, then proceed to step 8.

Safety Recall Bulletin 15R3

Page Six

6. **Remove the steering arm and steering knuckle.** Reference section “Dissassembly of the Steering Knuckle” in the Front Axles chapter of the *Detroit Axles Manual* (DDC-SVC-MAN-0141).
7. **Install a new steering arm and new steering knuckle.** Reference section “Assembly of the Steering Knuckle” in the Front Axles chapter of the *Detroit Axles Manual* (DDC-SVC-MAN-0141).
8. **Install two new steering arm capscrews.** Reference section “Assembly of the Steering Knuckle” in the Front Axles chapter of the *Detroit Axles Manual* (DDC-SVC-MAN-0141).
9. Repairs are complete.

Warranty Information

NOTE

There are two labor codes listed below, use only one of these codes depending on the repair necessary. Also note that an additional SRT, 939-6010A, for Administration time .3 hour, will automatically be system added .

Be sure to file the claim to Detroit Diesel using the front axle serial number

Claim Type:	04
Modification:	15R3
Fault Type:	ZZ
Primary Failed Part:	Model 2 and 3: MBA 308676020025 Model 5: MBA 308676024003
Labor Code:	R15R3A Capscrew Replacement (Use this operation if the capscrews are removed and replaced and there is no steering arm or knuckle surface damage observed)
Labor:	0.8 Hours (Note an additional SRT for 0.3 Hours Administration Time, SRT 939-6010A, will automatically be system added)
Parts Return:	NONE

Safety Recall Bulletin 15R3

Page Seven

Claim Type:	04
Modification:	15R3
Fault Type:	ZZ
Primary Failed Part:	Model 2 and 3: MBA 308676020025 Model 5: MBA 308676024003
Labor Code:	R15R3B Capscrew Replacement And Steering Arm/Steering Knuckle Replacement (Use this operation if the capscrews are removed and replaced and the steering knuckle or steering arm surface damage is observed requiring capscrew and steering arm and knuckle replacement)
Labor:	3.7 Hours (Note an additional SRT for 0.3 Hours Administration Time, SRT 939-6010A, will automatically be system added)
Parts Return:	REQUIRED

Please contact the Detroit™ Customer Support Center at 855-253-0427 or email csc@daimler.com if you have any questions.

DETROIT DIESEL
13400 Outer Drive West
Detroit, Michigan 48239-4001

BULLETIN