

SAFETY RECALL BULLETIN

June, 2016
16R1 (FL707)
NHTSA #16V-208

Subject: **Detroit Axle Sway Bar Mounting**

Issue Involved

Daimler Trucks North America LLC, on behalf of its wholly owned subsidiary, Detroit Diesel Corporation, has decided that a defect which relates to motor vehicle safety exists on specific Freightliner Custom Chassis motorhome chassis manufactured from March 10, 2015, through January 14, 2016, with certain Detroit front axles.

On certain vehicles, the front sway bar mounting bracket may not fit flush on the axle mounting surface, causing the mounting bolts to bend or loosen. Loose mounting fasteners could cause the sway bar to detach, resulting in higher than expected vehicle sway or reduced handling, increasing the possibility of a crash. The sway bar mounting will be modified on affected vehicles.

Correct front axle suspension I-beam mounting surfaces became effective with front axles manufactured in Detroit, Michigan, after December 23, 2015. Any Model 3 front axle manufactured in Detroit, Michigan, between February 23, 2015, and December 23, 2015, will need the front axle suspension I-beam mounting surface repaired and sway bar mounting brackets and bolts 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.

There are approximately 655 vehicles affected by this Safety Recall.

Vehicles Involved

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

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

Front Axle Model Series	Front Axle Model Number	Inclusive Front Axle Mfg. Date (From) (To)	Descriptive Information
Model 3	AF-105-3N AF-124-3N AF-120-3N AF-147-3N F-100-3N	February 23, 2015 to December 23, 2015	Manufactured in Detroit, Michigan

Owner Notification

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

Dealer Campaign Responsibility

Detroit authorized Detroit Axle repair facilities are to service all axles subject to this Safety Recall. Safety Recall 16R1 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 16R1 has been completed.

Daimler Trucks North America Vehicles

- Check the base label (**Form WAR259**) to see if **Safety Recall 16R1** 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 16R1** 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.

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- Upon completion of **Safety Recall 16R1**, clean a spot on the base label (**Form WAR259**), write the Safety Recall Number (**16R1**) 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**.

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Parts Information

The required parts are shown below. Note that there are three different populations which have corresponding parts list contained in two different tables. Populations A and B share the same parts list. Population C has its own parts list. Use the vehicle serial number list to determine which population the specific vehicle belongs to. Only order the specific parts needed for that vehicle. Repairs on all vehicles will require parts from both Tables 1 and 2. The reference drawings can be found on ddcsn.com under this Safety Recall.

Drawing Reference Number	Part Number	Description	Quantity, Population A & B	Quantity, Population C
NA	D16-21018	Drawing, INSTL-SUSP,FRT,AS,6.5	Reference Only	Reference Only
17	23-11755-150	Air Bag Bolt 5/8 – 11 x 1.5 HCS GR8 Zn&Y	4	4
19/20	23-11757-450	SCREW-CAP,HEX,3/4-10,GR8,ZN	8	8
21	23-13833-110	Air Bag Nut 5/8 – 11 All MTL Auto Style H	4	4
22	23-13833-112	Nut ¾ - 10 All MTL Auto Style H	8	8
26	16-21013-000	SPACER-SUSP,FRT,AS120,6.5,LH	1	1
30	16-21013-001	SPACER-SUSP,FRT,AS120,6.5,RH	1	1
10	16-18350-002	Axle Dowel Pin	As Needed	As Needed

Table 1 – Parts Information for Drawing D16-21018

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Drawing Reference Number	Part Number	Description	Quantity, Population A & B	Quantity, Population C
NA	D16-21017	Drawing, INSTL-SUSP,FRT,AS,6.5	Reference Only	Reference Only
1	A16-20584-000	ASSY-STAB BAR,FRT,AS,44.5	1	Reference Only
2	A16-21020-000	ROD-STAY,ASSY,SWAYBAR,FRONT, AS	2	NA
3	16-19729-000	BUSHING-SWAYBAR,44.5	2	2
4	16-19731-000	BRKT-MTG,SWAYBAR,44.5,50	2	2
6	16-20587-000	BRKT-MTG,UPR,SWAYBAR,AS	2	Reference Only
7	23-09114-003	WASHER-HRDN,0.53X1.06X.177,ZN	8	8
8	23-13833-108	NUT-HEX,PT,1/2-13,C,ZN/AL,.448	4	4
9	23-11751-200	SCREW,CAP,HEX,1/2-13,GR8,ZNDI	4	4
10	23-11755-375	SCREW-CAP,HEX,5/8-11 UNC	4	Reference Only
11	23-11751-150	SCREW,CAP,HEX,1/2-13,GR8,ZNDI	4	Reference Only
12	23-13833-108	NUT-HEX,PT,1/2-13,C,ZN/AL,.448	4	Reference Only
13	23-09114-003	WASHER-HRDN,0.53X1.06X.177,ZN	8	Reference Only
14	23-09114-000	WASHER-HRDN,0.69X1.31X.177,ZN	8	Reference Only
15	23-13833-110	NUT-HEX,PT,5/8-11,C,ZN/AL,.559	4	Reference Only

Table 2 – Parts Information for Drawing D16-21017

Corrective Procedure

1. Park the vehicle in the designated repair area and apply the parking brake, turn off the ignition, chock the rear wheels, disconnect the batteries, and perform any other applicable safety steps.



WARNING:

PERSONAL INJURY

To avoid injury when removing or installing a heavy engine component, ensure the component is properly supported and securely attached to an adequate lifting device to prevent the component from falling.

2. Lift the Coach up, then support the front axle securely on jack stands.
3. Remove the ½" blue air line from the air bag.
4. Remove the bolts at top of the air bag through the rail.
5. Loosen the sway bar bolts from the sway bar bracket and remove the bolts.
6. Push the sway bar forward to gain access to the sway bar mounting bracket.
7. Loosen the axle mounting bolts.
8. Remove the nuts on the two front axle mounting bolts.
9. Remove the sway bar mounting bracket from the front two axle mounting bolts on the front side of axle.
10. Lift the Coach up enough to remove the air bag, spring plate, and spacer plate.
11. Remove the two remaining nuts on the axle mounting bolts.
12. Remove the air bag, spring plate, and spacer.
13. Remove the nut on bottom of the air bag.
14. Remove the spring plate.

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15. Remove the four axle mounting bolts and discard.
16. For vehicles in Population C, skip to step 19. For vehicles in Populations A and B, continue to the next step.
17. For vehicles in Population A or B, remove the old sway bar, stay rods, mounts, and discard.
18. For vehicles in Population A or B, drill two new holes in the frame side flange for Stay Rod Bracket P/N: 16-20587-000. Note that the dimensions are different for Population A and B. See Figure 1 below.

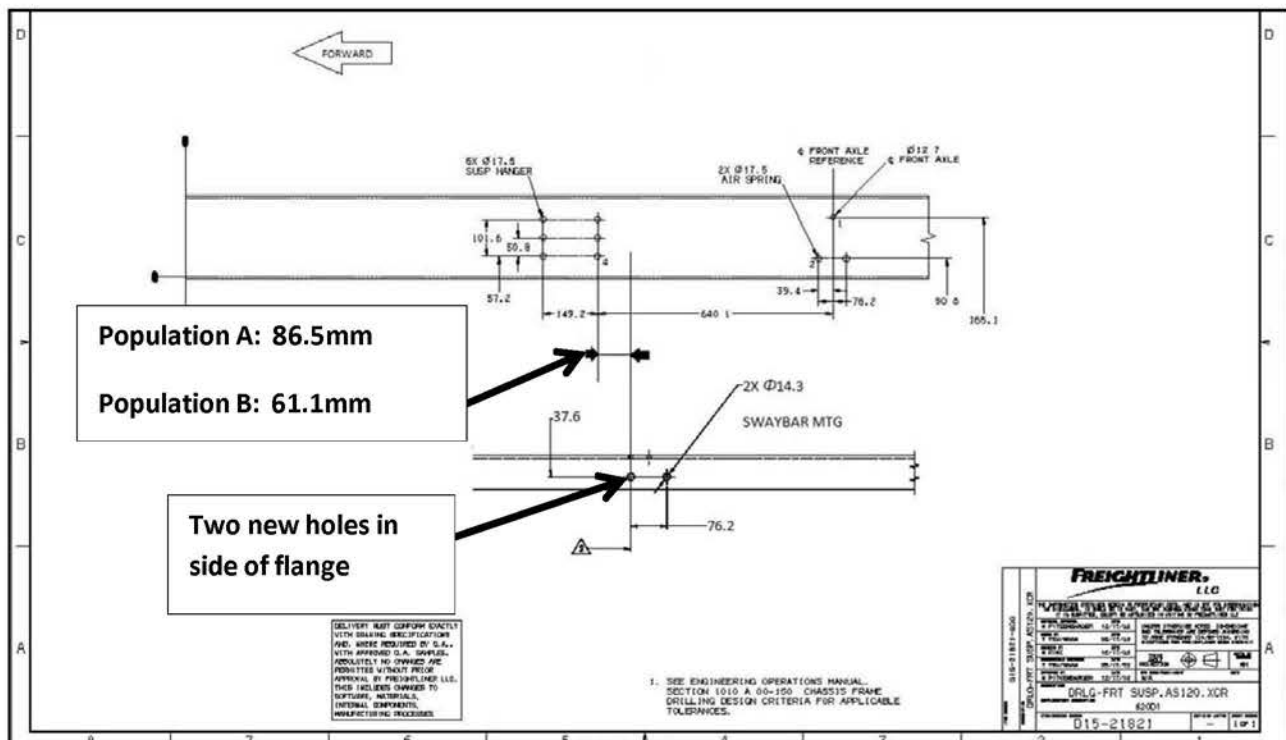


Figure 1 – Drilling Location For Populations A and B

19. Replace with new axle mounting bolts.
20. Reinstall the spring plate.

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- 21.** Align the flat edge of the spring plate with the top mounting bracket on the air bag. Tighten nut to correct torque as noted on the drawings.
- 22.** Remove spacer plate P/N: 16-18338-000.
- 23.** Install the new sway bar mounting bracket between the spring and axle where the spacer plate used to be located.
- 24.** Align the new sway bar mounting bracket on the dowel pin and bolt holes.
- 25.** Install the air bag.
- 26.** Lower the chassis on to the air bag.
- 27.** Align the bolts through the sway bar mounting bracket and front axle.
- 28.** Check to ensure that the dowel pin is in the front axle and spring.
- 29.** Hang the new sway bar on mounting bolts (use all new hardware).
- 30.** Pull the sway bar forward before tightening the bolts. Note that the sway bar bushing bracket should not touch the axle.
- 31.** Install the new nuts on the axle mounting bolts.
- 32.** Tighten up all connections evenly and to the correct torque as noted on the drawings.
- 33.** Install new bolts, nuts, and washer in top of the air bag.
- 34.** Check to make sure that the air bag is in FULL contact with the bottom of the frame rail.
- 35.** Tighten up the bolts in the airbag.
- 36.** Reconnect the air line to the air bag.
- 37.** For vehicles in Population C, skip to step 41. For populations A and B, continue to steps 38-40.
- 38.** Install the new stay rod brackets to the frame rail.

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39. Install the new stay rods to the brackets and to the sway bar.

40. Tighten up evenly and torque to specifications as noted on the drawings.

 WARNING:
PERSONAL INJURY
To avoid injury when removing or installing a heavy engine component, ensure the component is properly supported and securely attached to an adequate lifting device to prevent the component from falling.

41. Raise Coach and remove jack stands under steer axle.

 WARNING:
ENGINE EXHAUST
To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

 WARNING:
PERSONAL INJURY
To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.

42. Lower Coach, start engine, and check for any air leaks.

43. 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 using the front axle serial number

Claim Type:	04
Modification:	16R1
Fault Type:	ZZ
Primary Failed Part:	MBA 6803319901
Labor Code For Populations A and B:	R16R1A
Labor For Populations A and B:	4.6 Hours
Labor Code For Population C:	R16R1B
Labor For Population C:	1.7 Hours
Parts Return:	NONE

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

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BULLETIN