

October 2021
SF613A

Subject: ConMet Front Hub to Rotor Fasteners

Models Affected: Specific model year 2021 Freightliner 108SD, 114SD, 122SD, Business Class M2, Cascadia, Columbia, Coronado; and Western Star 4700, 4900, and 5700 model vehicles manufactured May 27, 2020, through September 1, 2020.

General Information

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, and wholly owned subsidiary, Western Trucks Sales Inc., is initiating Field Service Campaign SF613A to modify the vehicles mentioned above.

On certain vehicles, the front rotor nuts may not be torqued to manufacturer specification. Loose components could cause damage to the ABS tone rings, the ABS sensors, and the anchor plate mounting fasteners.

The front rotor nuts will be inspected. If a nut is not torqued to manufacturer specification, both front hubs and rotor assemblies will be replaced.

NOTE: If the front hubs need to be replaced, next day delivery of the hubs may be required. Please schedule the repair with this time frame in mind.

There are approximately 6,376 vehicles involved.

Additional Repairs

Dealers must complete all outstanding Recall and Field Service campaigns prior to the sale or delivery of a vehicle. A Dealer will be liable for any progressive damage that results from its failure to complete campaigns before sale or delivery of a vehicle.

Owners may be liable for any progressive damage that results from failure to complete campaigns within a reasonable time after receiving notification.

Please contact Warranty Campaigns for consideration of additional charges prior to performing the repair.

Work Instructions

Please refer to the attached work instructions. Prior to performing the campaign, check the vehicle for a completion sticker (Form WAR261).

Replacement Parts

Replacement parts are now available and can be obtained by ordering the kit and/or part number(s) listed below from your facing Parts Distribution Center.

If our records show your dealership has ordered any vehicle(s) involved in campaign number SF613, a list of the customers and vehicle identification numbers will be available on DTNAConnect. Please refer to this list when ordering parts for this campaign.

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Table 1 - Replacement Parts for SF613

Campaign Number	Procedure	Part Description	Part Number	Qty.
SF613A	Inspection	AXIAL CALIPER BOLTS	N210931 020001	12 ea
		HUB CAP GASKET	CHR 453869 8	2 ea
		STEER AXLE WHEEL SEAL	ABP 10045885	2 ea
		BLANK COMPLETION STICKER	WAR261	1 ea
SF613A (Less than 20% hub replacement is expected.)	Hub Replacement Replace hubs only if rotor nut torque is under spec. <hr/> Replace spindle nut and lock ring only if damaged.	PRESET PLUS HUB & ROTOR ASS	CM 10084787	2 ea
		PRESET HUB ASSEMBLY	CM 10084788	2 ea
		ATP PRESET PLUS SPINDLE NUT FF STR FLAT	ABP 10036548	0-2 ea
SF613A (Less than 0.5% replacement is expected.)	Brake Pad Replacement Replace only if brake hardware damage is due to rotor stud failure.	BRAKE PAD KIT	BW K129276	0-1 ea
		DISC PADS & PAD SPRGS, AXLE SET	TDA KIT2252L2CG	0-1 ea
		KIT-PAD	WAB 640 322 934 2	0-1 ea

Table 1

Removed Parts

U.S. and Canadian Dealers, please follow Warranty Failed Parts Tracking shipping instructions for the disposition of all removed parts. Export distributors, please destroy removed parts unless otherwise advised.

Labor Allowance

Table 2 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
SF613A	Inspect both front hubs only	2.3	996-F105A	06-Inspect
	Inspect and replace both front hubs and rotor assemblies	2.3	996-F105B	12-Repair Recall/Campaign

Table 2

IMPORTANT: When the campaign has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the gray completion sticker provided in the field service kit (Form WAR261). If the vehicle does not have a base completion label, clean a spot on the appropriate location of the vehicle and first attach the base completion label (Form WAR259). If a field service kit is not required or there is no completion sticker in the kit, write the campaign number on a blank sticker and attach it to the base completion label.

Claims for Credit

You will be reimbursed for your parts, labor, and handling (landed cost for Export Distributors) by submitting your claim through the Warranty system within 30 days of completing this campaign. Please reference the following information in OWL:

- Claim type is **Field Service Campaign**.
- In the Campaign field, enter the campaign number and appropriate condition code (**SF613-A**).
- In the Primary Failed Part field, enter **25-SF613-000**.
- In the Parts section, enter the appropriate kit or part number(s) as shown in the Replacement Parts Table.
- In the Labor section, enter the appropriate SRT from the Labor Allowance Table. Administrative time will be included automatically as SRT 939-6010A for 0.3 hours.
- The VMRS Component Code is **F99-999-005** and the Cause Code is **A1 - Campaign**.

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- This Field Service Campaign will **terminate on October 31, 2022**. Dealers will be notified of any changes to the termination date via Important Campaign Information Letter posted on DTNACConnect.com.

IMPORTANT: OWL must be viewed prior to beginning work to ensure the vehicle is involved and the campaign has not previously been completed. Also, check for a completion sticker before beginning work.

All claims must be submitted within 30 days of the repair and within 30 days of the termination date of the campaign. U.S. and Canadian Dealers: All excess inventory to be returned to the PDC following the conclusion of the campaign must be returned in resaleable condition to the Memphis PDC within 90 days from the termination date. Please submit a PAR to request return to the Memphis PDC. (Canadian dealers should return the kits to their facing PDC.) Export Distributors: Excess inventory is not returnable.

For questions, U.S. and Canadian dealers, contact the Warranty Campaigns Department via Web inquiry at DTNACConnect.com/WSC, or the Customer Assistance Center at (800) 385-4357, if you have any questions or need additional information. Export distributors submit a Web inquiry or contact your International Service Manager.

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Copy of Notice to Owners

Subject: ConMet Front Hub to Rotor Fasteners

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, and wholly owned subsidiary, Western Star Truck Sales Inc., is initiating Field Service Campaign SF613A to modify specific model year 2021 Freightliner 108SD, 114SD, 122SD, Business Class M2, Cascadia, Columbia, Coronado; and Western Star 4700, 4900, and 5700 model vehicles manufactured May 27, 2020, through September 1, 2020.

On certain vehicles, the front rotor nuts may not be torqued to manufacturer specification. Loose components could cause damage to the ABS tone rings, the ABS sensors, and the anchor plate mounting fasteners.

The front rotor nuts will be inspected. If a nut is not torqued to manufacturer specification, both front hubs and rotor assemblies will be replaced.

The campaign will take approximately three hours and will be performed at no charge to you. **If the front hubs need to be replaced, next day delivery of the hubs may be required. Please schedule the repair with this time frame in mind.** To locate an authorized dealer, search online at Daimler-TrucksNorthAmerica.com/contact-us/. Scroll down to "Locate a Dealer," and select the appropriate brand.

This Field Service Campaign will **terminate on October 31, 2022**. Please make sure the campaign is completed prior to this date. Work completed after this date will be done at the customer's expense.

As stated in the terms of your express limited warranty, Daimler Trucks North America LLC will not pay for any damage caused by failure to properly maintain your vehicle. Daimler Trucks North America LLC considers the work necessary under this campaign to be proper maintenance and will, therefore, not pay for any damage to your vehicle caused by your failure to have the repairs that are the subject of this campaign performed in a reasonable time.

Contact the Warranty Campaigns Department at (800) 547-0712, from 7 a.m. to 4 p.m. Pacific Time, Monday through Friday, e-mail address DTNA.Warranty.Campaigns@Daimler.com, or the Customer Assistance Center at (800) 385-4357, if you have any questions or need additional information.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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Work Instructions

Subject: ConMet Front Hub to Rotor Fasteners

Models Affected: Specific model year 2021 Freightliner 108SD, 114SD, 122SD, Business Class M2, Cascadia, Columbia, Coronado; and Western Star 4700, 4900, and 5700 model vehicles manufactured May 27, 2020, through September 1, 2020.

NOTE: If the front hubs need to be replaced, next day delivery of the hubs may be required. Please schedule the repair with this time frame in mind.

Front Hub to Rotor Stud Procedure

1. Check the base label (Form WAR259) for a completion sticker for SF613 (Form WAR261) indicating this work has been done. The base label is usually located on the passenger-side door, about 12 inches (30 cm) below the door latch. If a sticker is present for SF613, no work is needed. If there is no sticker, proceed with the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.

DANGER

DANGER: Before working under the vehicle, always place jack stands under the frame rails to ensure the vehicle cannot drop. Failure to do this could result in serious personal injury or death.

3. Raise the vehicle and support it with jack stands.
4. Remove both front wheel assemblies.
5. Working on one side of the front axle, fully back off the adjusters.
6. Remove and discard the caliper bolts.
7. Remove the caliper and support it on the frame rail.
8. Remove the hub. If instructions are needed, see **Group 33** of the appropriate Workshop Manual.
9. Set the hub in the front wheel to hold it in place. See **Fig. 1**.



Fig. 1, Hub Held in Place on Front Wheel

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10. Repeat steps 5-9 on the other wheel end so both hubs are removed and held in place using the front wheels as shown in step [Fig. 1](#).
11. Using a thin-wall socket to clear the ABS ring, tighten all the rotor nuts on both hubs to 40 lbf·ft (54 N·m). Did any of the rotor nuts move at all?
 - 11.1 If **YES**: Replace the complete hub and rotor assemblies on both sides of the front axle. For instructions, see **Group 33** of the appropriate Workshop Manual.
 - 11.2 If **NO** on both front hubs: Replace the hub seals and install both removed hubs. For instructions, see **Group 33** of the appropriate Workshop Manual.

 **WARNING**

When replacing brake pads, shoes, rotors, or drums, always replace components as an axle set.

- **Always reline both sets of brakes on an axle at the same time.**
- **Always replace both rotors/drums on an axle at the same time.**
- **Always install the same type of linings/pads or drums/rotors on both axle ends of a single axle, and all four axle ends of a tandem axle, at the same time. Do not mix component types.**

Failure to replace components as an axle set could cause uneven braking and loss of vehicle control, resulting in property damage, personal injury, or death.

IMPORTANT: The caliper/carrier assemblies are left and right handed. Ensure that the correct assembly (left or right) is installed on each side of the vehicle.

12. Align the caliper/carrier assembly with the rotor by pushing the caliper against the shelf on the torque plate, then install the caliper/carrier assembly using new caliper mounting bolts. See [Fig. 2](#).

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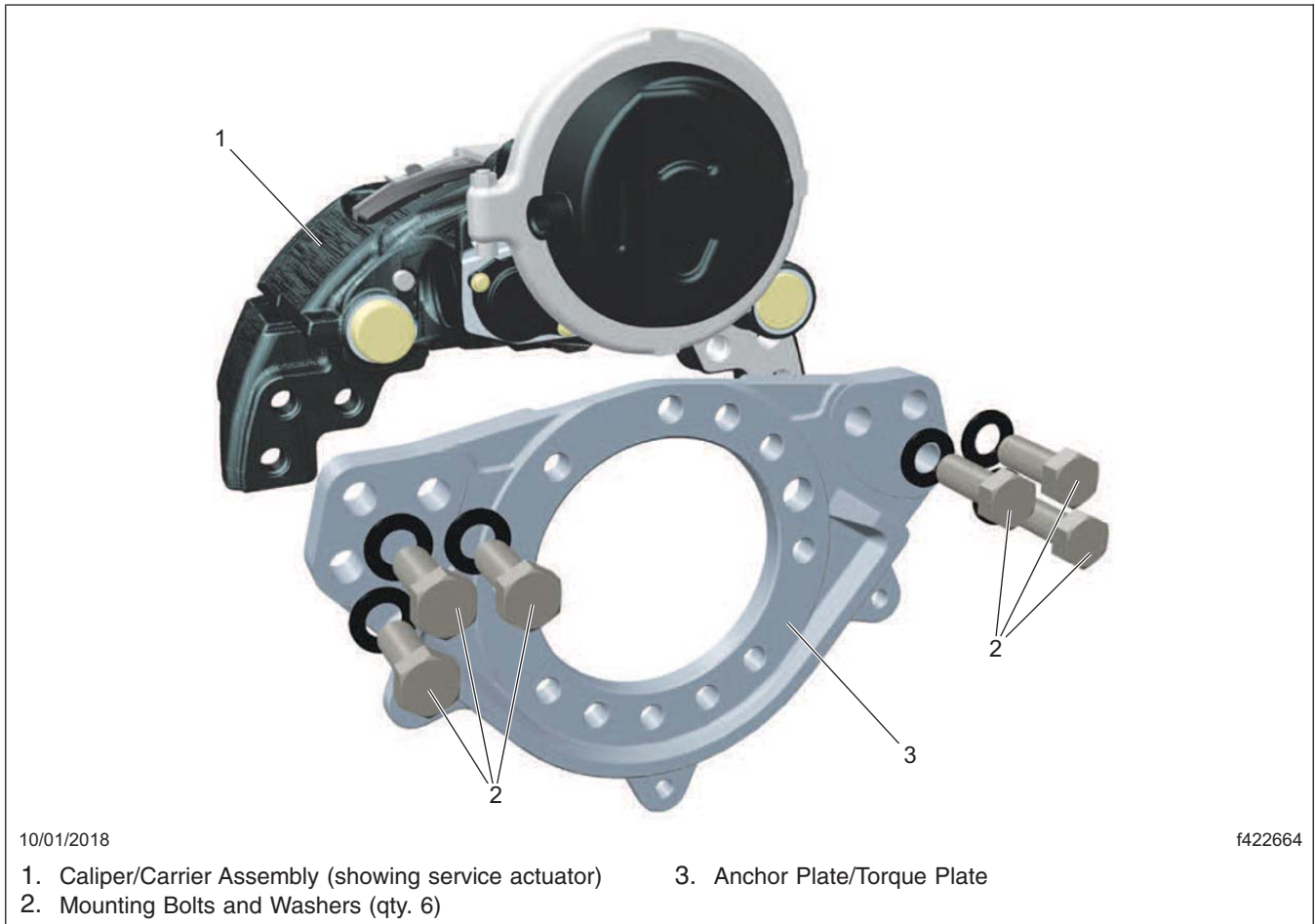


Fig. 2, Axial Mounted Caliper

NOTE: In all steps that require a torque wrench, use a Snap On torque wrench ATECH4RS600 or equivalent, with a center to handle length of 47 inches (119 cm).

NOTE: Due to limited caliper bolt access, it may be necessary to use tool DDC DSNCHA018005 referenced in tool letter 18TL18. See [Fig. 3](#). If the tool is needed, use tool DDC DSNCHA018005 only and no other tools.



Fig. 3, DDC DSNCHA018005 30 mm Air Disc Brake Caliper Brake Bolt Torque Adaptor

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13. Tighten the caliper mounting bolts as follows.

- 13.1 Start on one side of the caliper and tighten all three bolts 40 ± 20 lbf·ft (54 ± 27 N·m), beginning with the inner-most bolt and moving to the outer-most bolt.

Then tighten the three bolts on the other side of the caliper 40 ± 20 lbf·ft (54 ± 27 N·m), beginning with the inner-most bolt and moving to the outer-most bolt.

See [Fig. 4](#) for an illustration of the tightening pattern for the left-front caliper and [Fig. 5](#) for an illustration of the tightening pattern for the right-front caliper.



Fig. 4, Tightening Pattern, Left-Front Axial Caliper



Fig. 5, Tightening Pattern, Right-Front Axial Caliper

- 13.2 If working on **Bendix** or **Wabco** brakes, repeat this process, increasing the torque value to 375 ± 25 lbf·ft (508 ± 34 N·m). See [Table 3](#) on page 9 for torque specifications.

If working on **Meritor** brakes, repeat this process, increasing the torque value to 400 ± 50 lbf·ft (542 ± 68 N·m). See [Table 4](#) on page 10 for torque specifications.

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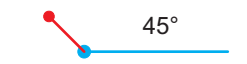



Bendix/Wabco Torque Specifications			
Angle View	Extension Angle in degrees	Target Torque in lbf·ft (N·m)	Tool Setting in lbf·ft (N·m)
 <p>0° 11/28/2016 f422613</p>	0	375 (508)	317 (430)
 <p>45° 11/28/2016 f422614</p>	45		332 (450)
 <p>60° 11/06/2018 f422668</p>	60		343 (465)
 <p>90° 11/28/2016 f422615</p>	90		375 (508)
 <p>120° 11/06/2018 f422669</p>	120		413 (560)
 <p>135° 11/28/2016 f422616</p>	135		431 (584)

Table 3, Bendix/Wabco Torque Specifications

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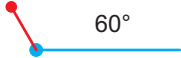
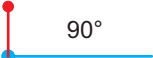


Meritor Torque Specifications			
Angle View	Extension Angle in degrees	Target Torque in lbf·ft (N·m)	Tool Setting in lbf·ft (N·m)
 <p>0° 11/28/2016 f422613</p>	0	400 (542)	338 (458)
 <p>45° 11/28/2016 f422614</p>	45		354 (480)
 <p>60° 11/06/2018 f422668</p>	60		366 (496)
 <p>90° 11/28/2016 f422615</p>	90		400 (542)
 <p>120° 11/06/2018 f422669</p>	120		441 (598)
 <p>135° 11/28/2016 f422616</p>	135		460 (624)

Table 4, Meritor Torque Specifications

14. Back off the adjuster nut three clicks.
15. Repeat steps 12-14 on the other side of the front axle.
16. Install the wheel assemblies.
17. Raise the vehicle, remove the jack stands, then lower the vehicle.
18. Charge the air system and check for leaks.
19. Check for proper brake operation in a safe area before putting the vehicle in service.
 - 19.1 Apply and release the brakes several times to check for air leaks and proper operation.
 - 19.2 Perform six low-speed stops to ensure proper parts replacement and full vehicle control.
 - 19.3 Immediately after performing the stops above, check the rotor temperatures. Any rotors that are significantly cooler than others indicate a lack of braking effort on those wheels.
20. Clean a spot on the base label (Form WAR259). Write the recall number, SF613, on a blank grey completion sticker (Form WAR261), and attach it to the base label to indicate this recall has been completed.