

Field Service Campaign

Daimler Trucks
North America LLC

April 2011
SF441AB

Copy of Letter to Owner

Subject: ArvinMeritor RT Series Forward Drive Output Shafts

Daimler Trucks North America LLC, on behalf of Freightliner Trucks Division, is initiating Field Service Campaign SF441AB to modify specific Freightliner Business Class M2, Cascadia, Columbia, and Coronado model vehicles manufactured July 26, 2010, through August 31, 2010.

On certain vehicles with ArvinMeritor RT series output shaft assemblies, the heat treat process of the output shaft did not conform to required specifications. This may cause the output shaft to break.

The output shaft assemblies will be replaced with assemblies that have been heat treated to the correct specification.

Parts are now available for authorized dealers to order. Contact your authorized Daimler Trucks North America dealer to arrange to have the campaign performed as soon as possible and to ensure that parts are available at the dealership. To locate an authorized dealer, search online at www.Daimler-TrucksNorthAmerica.com or contact the Warranty Campaigns Department for assistance.

When you contact your dealer, refer to Field Service Campaign **SF441AB** and your vehicle identification number. Once kit(s) are received at the dealership, the campaign will take approximately two hours and will be performed at no charge to you.

This Field Service Campaign will **terminate on April 30, 2012**. 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.

IMPORTANT: When the campaign has been completed on your vehicle, please ensure that a completion sticker has been affixed to your vehicle referencing **SF441**.

Contact the Warranty Campaigns Department at (800) 547-0712, from 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, e-mail address DTNA.Warranty.Campaigns@Daimler.com, or the Customer Assistance Center at (800) FTL-HELP after normal business hours, if you have any questions or need additional information.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

Work Instructions

Subject: ArvinMeritor RT Series Forward Drive Output Shafts

Models Affected: Specific Freightliner Business Class M2, Cascadia, Columbia, and Coronado model vehicles manufactured July 26, 2010, through August 31, 2010.

Output Shaft Assembly Procedure

1. Check the base label (Form WAR259) for a completion sticker for SF441 (Form WAR261), indicating this work has been completed. The base label is usually located on the passenger-side door, about 12 inches (30 cm) below the door latch. If a completion sticker is present, no further work is needed. If a completion sticker is not present, proceed to the next step.
2. Park the vehicle, shut down the engine, and apply the parking brake. Chock the tires.

WARNING

Wear safe eye protection to prevent serious eye injury.

3. Disconnect the interaxle driveshaft from the output yoke of the forward-rear axle carrier.
4. Remove the output yoke retaining nut and washer. See **Fig. 1**.

NOTE: A small amount of oil may be released as the output yoke is removed.

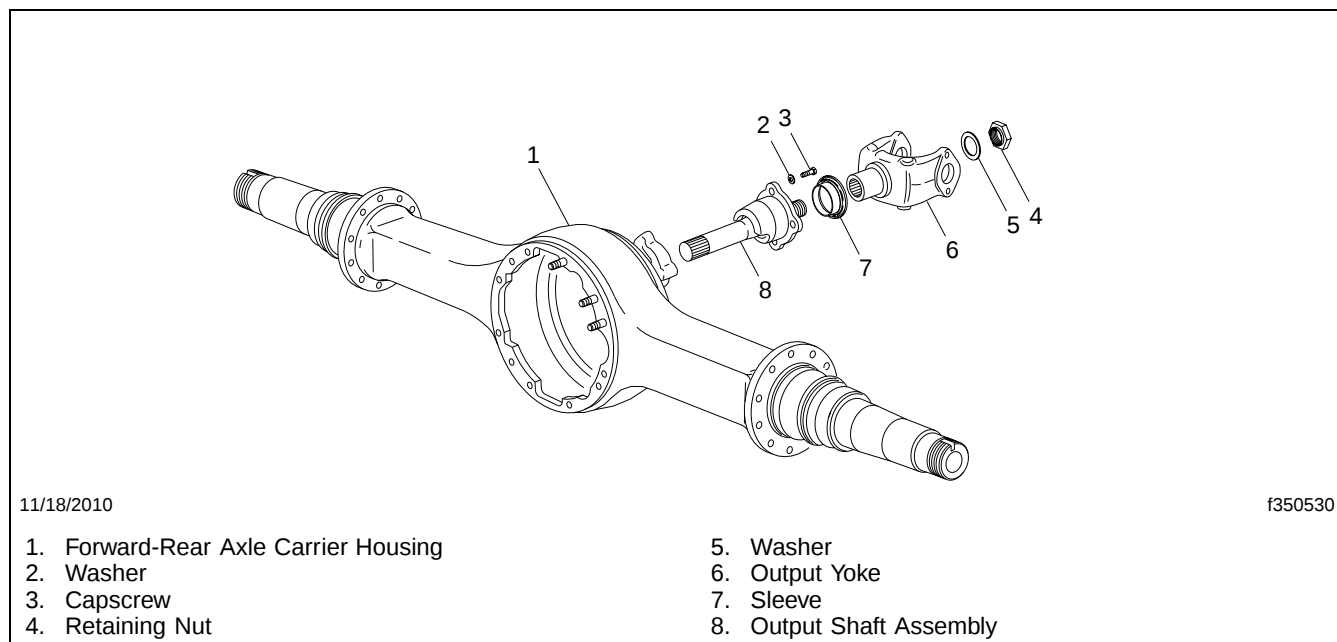


Fig. 1, Output Shaft Assembly and Related Components

5. Using a suitable yoke puller, remove the output yoke.
6. Remove the fasteners from the bearing cage of the output shaft assembly, then remove the output shaft assembly from the carrier housing. Retain the washers; they will be reused later in this procedure.

Field Service Campaign

Daimler Trucks
North America LLC

April 2011
SF441AB

7. Inspect the output shaft assembly for signs of material loss, fractures and fragmentation.

If **no** damage is found, go to step 8.

If damage **is** found, do not continue with these instructions. Call the OnTrac Technical Call Center at (866) 668-7221 to receive further repair instructions. You will submit a warranty claim to ArvinMeritor. Clean a spot on the base label (Form WAR259) and attach a grey completion sticker for SF441 (Form WAR261). See the Claims for Credit section for instructions on how to file your SF441 claim.

8. Inspect the existing sleeve on the yoke for damage and wear. If the seal contact surfaces are grooved, scratched, or polished, replace the sleeve with the one from the kit. Refer to ArvinMeritor Technical Bulletin TP-0446 for instructions.
9. Using a suitable cleaning solvent (such as brake cleaner) and clean rags, clean the mating surfaces of the carrier housing and output shaft assembly. Dry the surfaces completely and make sure no cleaning solvent remains.
10. Using Loctite® 5699™ sealant, apply a 1/8-inch (3-mm) bead to the mating surface of the carrier housing. Apply this sealant in a circular pattern around each fastener hole.

NOTE: The matching bolt pattern of the output shaft assembly and carrier housing is irregular, and the two components fit together only one way.

11. Install the new output shaft assembly; reuse the original washers and tighten the capscrews 35 to 50 lbf·ft (47 to 68 N·m).
12. Install the yoke and yoke nut; tighten the yoke nut 600 to 700 lbf·ft (815 to 950 N·m).
13. Check the fluid level at the fill plug. See **Fig. 2**.
14. Connect the interaxle driveshaft to the yoke. See **Table 3** for fastener torque values.

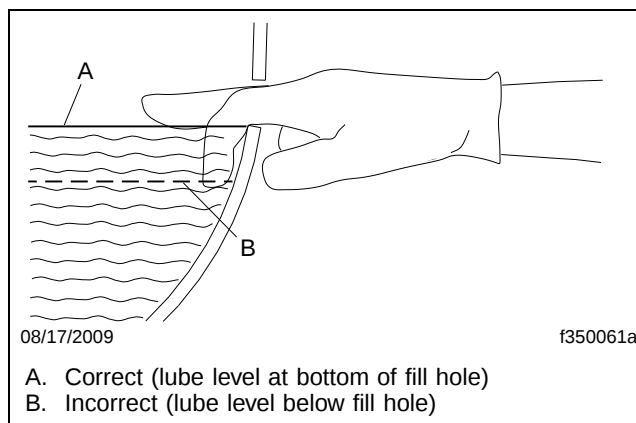


Fig. 2, Axle Lubricant Level Inspection

Torque Values, U-Joint Fasteners		
Description	Size	Torque: lbf·ft (N·m)
Bearing Plate (for full-round yoke)	3/8–24	43 (49)
Bearing Strap (for half-round yoke)	1/2–20	125 (169)
RPL U-joints	1/2–20	125 (169)

Table 3, Torque Values, U-Joint Fasteners

15. Destroy and scrap the removed output shaft.
16. Clean a spot on the base label (Form WAR259) and attach a grey completion sticker for SF441 (Form WAR261) to indicate the work has been completed.