

Copy of Letter to Owner

Subject: Remy 29MT Starters

Daimler Trucks North America LLC, on behalf of its Freightliner Trucks Division and its wholly owned subsidiary, Freightliner Custom Chassis Corporation, is initiating Field Service Campaign SF451AB to modify specific Freightliner Business Class M2 vehicles; Freightliner Custom Chassis B2 school bus chassis (Thomas Built Buses Saf-T-Liner C2), S2 shuttle bus chassis, and MC/XC motorhome chassis manufactured February 1, 2011, through March 23, 2011.

Certain vehicles may have been built with 29MT starters that may contain clutch rolls with improper heat treatments.

The starters will be inspected and replaced if necessary.

Please contact an authorized Daimler Trucks North America dealer to arrange to have the campaign performed and to ensure that parts are available at the dealership. To locate an authorized dealer, search online at www.DaimlerTrucksNorthAmerica.com. The campaign may take up to an hour and a half and will be performed at no charge to you.

This Field Service Campaign will **terminate on November 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 **SF451AB**.

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

November 2011
SF451AB

Work Instructions

Subject: Remy 29MT Starters

Specific Freightliner Business Class M2 vehicles; Freightliner Custom Chassis B2 school bus chassis (Thomas Built Buses Saf-T-Liner C2), S2 shuttle bus chassis, and MC/XC motorhome chassis manufactured February 1, 2011, through March 23, 2011.

Starter Inspection and Replacement Procedure

1. Check the base label (Form WAR259) for a completion sticker for SF451 (Form WAR261) indicating this work has been done. On trucks, the base label is usually located on the passenger-side door, about 12 inches (30 cm) below the door latch. On school buses and shuttle buses, the base label is usually located over the driver's window. On motorhomes, the base label is usually located on the front wall, under the dash. If a completion sticker is present, no further work is needed. If there is no completion sticker, go to the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
3. Access the engine, and locate the Delco Remy label attached to the starter. It may be necessary to inspect the starter from underneath the engine to see the label.
4. Inspect the date code on the label, located in the area shown in **Fig 1**, to determine if the starter requires replacement. The date codes of starters that must be replaced are within the range of 09FE11 (9 February 2011) through 18MR11 (18 March 2011). If the starter label is missing or unreadable, replace the starter.
5. If the starter date code does not fall within the affected range, no further action is necessary. Clean a spot on the base label (Form WAR259). Write campaign number SF451 on a blank, gray completion sticker (Form WAR261) and attach it to the base label.
6. If the starter date code falls within the affected range, or is missing or unreadable, replace the starter.
 - 6.1 Disconnect the negative battery cables at the batteries, and open the hood.
 - 6.2 Disconnect and label the wiring that connects to the starter. See **Fig. 2**.
 - 6.3 Support the starter, then remove the mounting bolts that attach it to the flywheel housing.
 - 6.4 Place a new starter into the mounting hole in the flywheel housing, then hand tighten the three mounting bolts until finger tight.

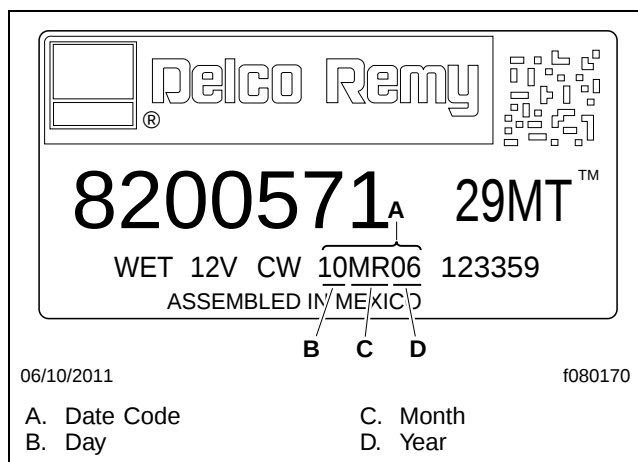


Fig. 1, Starter Label

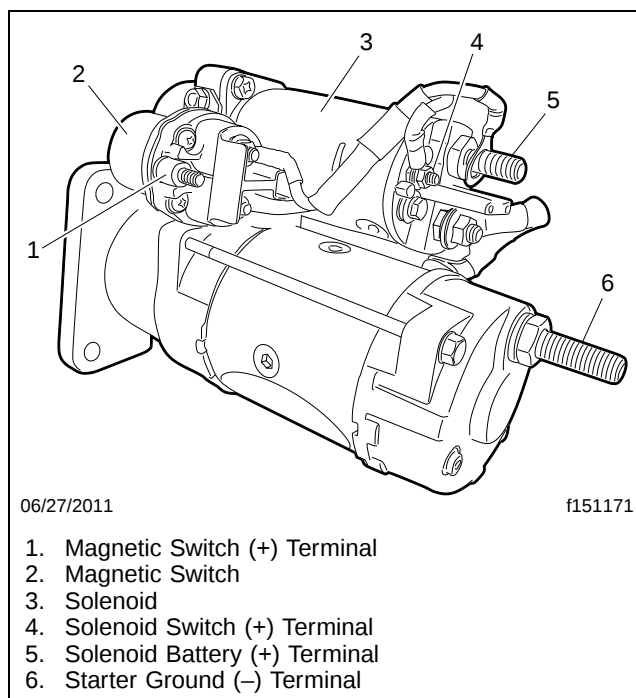


Fig. 2, Delco Remy 29MT Starter Terminals

6.5 Using a torque wrench, tighten the mounting bolts to the values shown in **Table 3**.

Torque Values, Starter-Motor to Flywheel-Housing Bolts		
Fastener Description	Size	Torque Value: lbf·ft (N·m)
Detroit Diesel (steel housing)	5/8–16	137–147 (186–199)
Detroit Diesel (aluminum housing)	5/8–16	85–95 (115–129)
Cummins (steel or aluminum housing)	5/8–16	130–170 (176–230)

Table 3, Torque Values, Starter-Motor to Flywheel-Housing Bolts

6.6 Connect the wiring to the solenoid and starter as previously marked. Tighten the terminals to the torque values shown in **Table 4**, then protect the terminal connectors with dielectric red enamel.

Torque Values, Delco Remy Starter Connections			
Starter	Terminal		
	Solenoid Switch (+)	Solenoid Battery (+)	Starter Ground (-)
29MT	18 to 20 lbf·in (200 to 225 N·cm)	10 to 13 lbf·ft (14.7 to 17.7 N·m)	10 to 13 lbf·ft (14.7 to 17.7 N·m)

Table 4, Torque Values, Delco Remy 29MT Starter Connections

6.7 Connect the batteries.

7. Clean a spot on the base label (Form WAR259) and attach a completion sticker for SF451 (Form WAR261) to the base label.