

December 2020
FL867A
NHTSA #20V-686

Subject: Freightliner Econic SD Battery Cables and Ground Ring Terminal

Models Affected: Specific Model Year 2019-2021 Freightliner Econic SD model vehicles, manufactured June 24, 2019, through October 29, 2020.

General Information

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks division, has decided that a defect that relates to motor vehicle safety exists on the vehicles mentioned above.

On certain vehicles, the routing and securement of certain electrical power cables at the battery relay and ground wires may become damaged. A damaged power cable coming into contact with the ground wires at the battery relay may increase the risk of a thermal event from overloading the ground connection. Additionally, a damaged ground connection may also result in an unexpected engine stall without warning and inability to restart.

The left ground wires will be rerouted and receive a new connection joint. The battery cables will be reoriented and receive new heat sleeves.

There are approximately 104 vehicles involved in this campaign.

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.

Work Instructions

Please refer to the attached work instructions. Prior to performing the campaign, check the vehicle for a completion sticker (Form WAR260).

Replacement Parts

Replacement parts are now available and can be obtained by ordering the part numbers listed below from your facing Parts Distribution Center.

If our records show your dealership has ordered any vehicle(s) involved in campaign number FL867, a list of the customers and vehicle identification numbers will be available on DTNAConnect. Please refer to this list when ordering parts for this recall.

Table 1 - Replacement Parts for FL867

Campaign Number	Part Number	Part Description	Qty.
FL867A	48-02461-050	TUBE-HTS,DW,12.7MM	1 ea
	N046234 012007	TERMINAL CONN-12MMX16G	1 ea
	WAR260	BLANK COMPLETION STICKER	1 ea

Table 1

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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
FL867A	ENGINE GROUND STUD EYELET, REMOVE AND REPLACE	0.5	996-R118A	12-Repair Recall/Campaign
	BATTERY CABLE GROMMETS, REMOVE AND REPLACE	0.8	996-R118B	12-Repair Recall/Campaign

Table 2

IMPORTANT: When the Recall has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the red completion sticker provided in the recall kit (Form WAR260). 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 recall kit is not required or there is no completion sticker in the kit, write the recall 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 **Recall Campaign**.
- In the Campaign field, enter the campaign number and appropriate condition code, **FL867-A**.
- In the Primary Failed Part Number field, enter **25-FL867-000**.
- In the Parts field, enter the appropriate part number(s) as shown in the Replacement Parts Table.
- In the Labor field, first 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**.
- **U.S. and Canada -- Reimbursement for Prior Repairs.** When a customer asks about reimbursement, please do the following:
 - Accept the documentation of the previous repair.
 - Make a brief check of the customer's paperwork to see if the repair may be eligible for reimbursement. (See the "Copy of Owner Letter" section of this bulletin for reimbursement guidelines.)
 - Submit an OWL Recall Pre-Approval Request for a decision.
 - Include the approved amount on your claim in the Other Charges section.
 - Attach the documentation to the pre-approval request.
 - If approved, submit a based on claim for the pre-approval.
 - Reimburse the customer the appropriate amount.

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

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U.S. and Canadian dealers, contact the Warranty Campaigns Department via Web inquiry at DTNAConnect.com / WSC, if you have any questions or need additional information. Export distributors, submit a Web inquiry or contact your International Service Manager.

U.S. and Canadian Dealers: To return excess kit inventory related to this campaign, U.S. dealers must submit a Parts Authorization Return (PAR) to the Memphis PDC. Canadian dealers must submit a PAR to their facing PDC. All kits must be in resalable condition. PAR requests must include the original purchase invoice number. Export Distributors: Excess inventory is not returnable.

The letter notifying U.S. vehicle owners is included for your reference.

Please note that the National Traffic and Motor Vehicle Safety Act, as amended (Title 49, United States Code, Chapter 301), requires the owner's vehicle(s) be corrected within a reasonable time after parts are available to you. The Act states that failure to repair a vehicle within 60 days after tender for repair shall be prima facie evidence of an unreasonable time. However, circumstances of a particular situation may reduce the 60 day period. Failure to repair a vehicle within a reasonable time can result in either the obligation to (a) replace the vehicle with an identical or reasonably equivalent vehicle, without charge, or (b) refund the purchase price in full, less a reasonable allowance for depreciation. The Act further prohibits dealers from selling a vehicle unless all outstanding recalls are performed. Any lessor is required to send a copy of the recall notification to the lessee within 10 days. Any subsequent stage manufacturer is required to forward this notice to its distributors and retail outlets within five working days.

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Copy of Notice to Owners
**Subject: Freightliner Econic SD Battery Cables
and Ground Ring Terminal**

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act.

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks division, has decided that a defect that relates to motor vehicle safety exists on specific Model Year 2019-2021 Freightliner Econic SD model vehicles, manufactured June 24, 2019, through October 29, 2020.

On certain vehicles, the routing and securement of certain electrical power cables at the battery relay and ground wires may become damaged. A damaged power cable coming into contact with the ground wires at the battery relay may increase the risk of a thermal event from overloading the ground connection. Additionally, a damaged ground connection may also result in an unexpected engine stall without warning and inability to restart.

The left ground wires will be rerouted and receive a new connection joint. The battery cables will be reoriented and receive new heat sleeves. Repairs will be performed by Daimler Trucks North America authorized service facilities.

Please contact an authorized Daimler Trucks North America dealer to arrange to have the Recall performed and to ensure that parts are available at the dealership. To locate an authorized dealer, go to Daimler-TrucksNorthAmerica.com/contact-us/. Scroll down to "Locate a Dealer," and select the appropriate brand. The Recall will take approximately one hour and will be performed at no charge to you. You may also confirm your vehicle's involvement in this recall at this URL: <https://dtna-dlrinfo.prd.freightliner.com:48518/VinLookup/vin-module/getVinLookupPage>.

You may be liable for any progressive damage that results from your failure to complete the Recall within a reasonable time after receiving notification.

If you do not own the vehicle that corresponds to the identification number(s) which appears on the Recall Notification, please return the notification to the Warranty Campaigns Department with any information you can furnish that will assist us in locating the present owner. If you have leased this vehicle, Federal law requires that you forward this notice to the lessee within 10 days. If you are a subsequent stage manufacturer, Federal law requires that you forward this notice to your distributors and retail outlets within five working days. If you have paid to have this recall condition corrected prior to this notice, you may be eligible to receive reimbursement. Please see the reverse side of this notice for details.

If you have questions about this Recall, please contact the Warranty Campaigns Department at (800) 547-0712, e-mail address DTNA.Warranty.Campaigns@Daimler.com. If you are not able to have the defect remedied without charge and within a reasonable time, you may wish to submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590; or call the Vehicle Safety Hotline at (888) 327-4236 (TTY: 800-424-9153); or to <http://www.safercar.gov>.

We regret any inconvenience this action may cause but feel certain you understand our interest in motor vehicle safety.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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Reimbursement to Customers for Repairs Performed Prior to Recall

If you have already **paid** to have this recall condition corrected you may be eligible to receive reimbursement.

Requests for reimbursement may include parts and labor. Reimbursement may be limited to the amount the repair would have cost if completed by an authorized Daimler Trucks North America LLC dealer. The following documentation must be presented to your dealer for consideration for reimbursement.

Please provide original or clear copies of all receipts, invoices, and repair orders that show:

- The name and address of the person who paid for the repair
- The Vehicle Identification Number (VIN) of the vehicle that was repaired
- What problem occurred, what repair was done, when the repair was done
- Who repaired the vehicle
- The total cost of the repair expense that is being claimed
- Proof of payment for the repair (such as the front and back of a cancelled check or a credit card receipt)

Reimbursement will be made by check from your Daimler Trucks North America LLC dealer.

Please speak with your Daimler Trucks North America LLC authorized dealer concerning this matter.

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Work Instructions

Subject: Freightliner Econic SD Battery Cables and Ground Ring Terminal

Models Affected: Specific Model Year 2019-2021 Freightliner Econic SD model vehicles, manufactured June 24, 2019, through October 29, 2020.

General Information

The battery wiring may have the following conditions:

The tie strap may pull the ground wire harness too tight, resulting in damage to the ring terminal over time. See [Fig. 1](#).

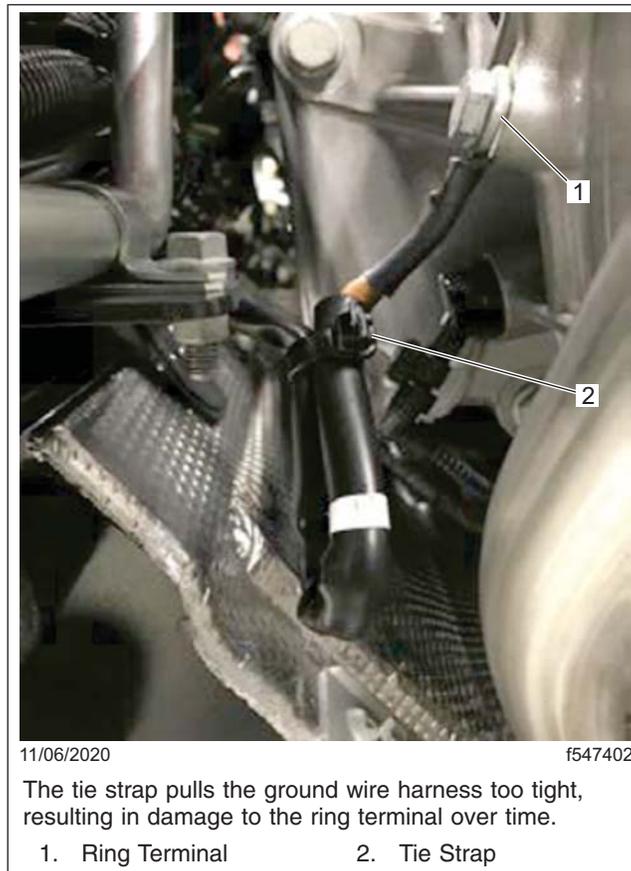


Fig. 1, Ground Harness, Incorrect Installation

Rubber sleeves on the two relays behind the battery box and at the main battery switch may be damaged due to a combination of the coated corrosion protection wax and high temperatures required during the paint finishing process. See [Fig. 2](#) and [Fig. 3](#).

The positive cables may be tie-strapped to the thin negative ground wires of the relays. See [Fig. 4](#).

The positive and negative cables may cross. See [Fig. 5](#).

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Fig. 2, Damaged Sleeve at the Relays

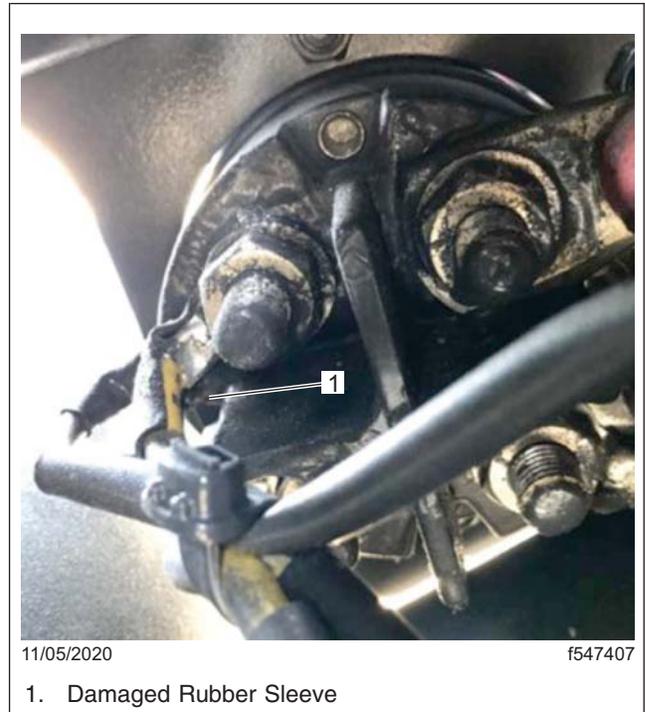


Fig. 3, Damaged Rubber Sleeve at the Back of the Battery Disconnect Switch

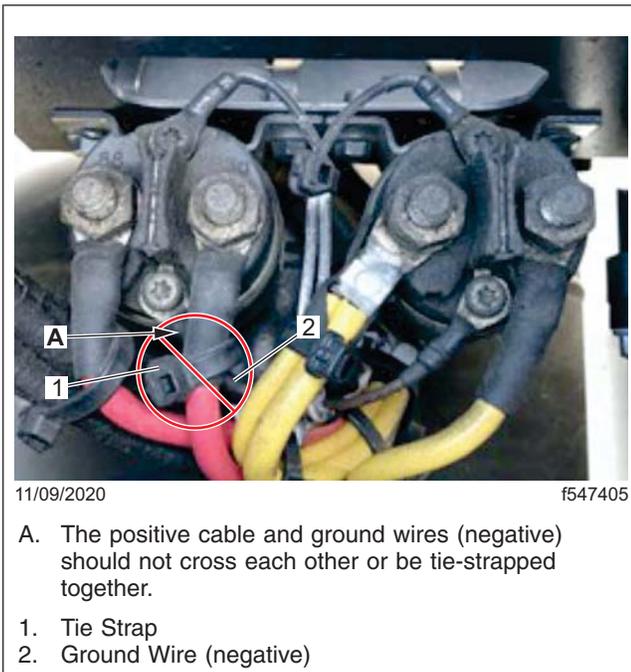


Fig. 4, Positive and Negative Cables Incorrectly Tie-Strapped Together

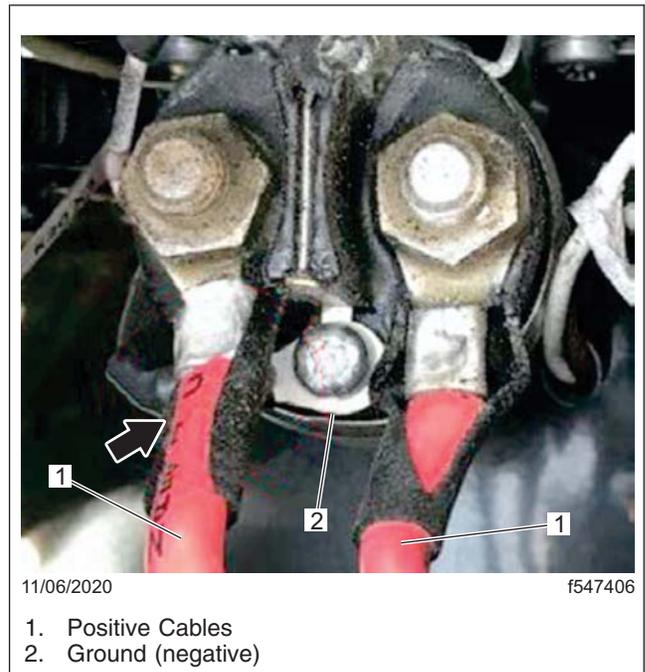


Fig. 5, Positive and Negative Cables Cross

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Work Instructions

Replace Ground Ring Terminal and Rubber Sleeves at Left-Hand Side of Engine Flywheel Housing

1. Check the base label (Form WAR259) for a completion sticker for FL867 (Form WAR260) 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, 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.
3. Remove the ring terminal from the negative post and the ground wires.
4. Remove any rubber sleeves from the ground wires, even if undamaged.
5. Clean the ground wires and components, as needed, to remove any dust or debris.
6. Slide a new piece of heat shrink tubing (sleeve) on the ground wires (to be heat shrunk in place after the new ring terminal is soldered).
7. Install a new ring terminal on the ground wires.
8. Solder the two ground wires to the ring terminal.
9. Apply heat to the shrink tubing, sealing it around the ground wires to prevent corrosion.
10. Install the ring terminal on the negative post; torque the M10 nuts to 13.28 lbf-ft (18 N·m).

IMPORTANT: Ensure that the ground wires have enough slack to compensate for engine movement and vibration.

11. Use a tie strap to attach the ground wires to the wiring harness convoluted tubing. See [Fig. 6](#).

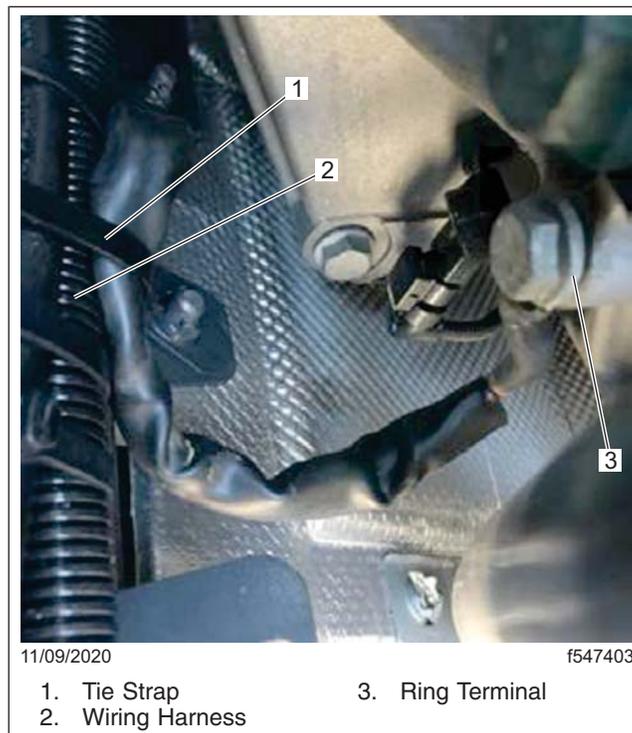


Fig. 6, Ground Wires, Correct Installation

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Replace the Sleeves on Red and Yellow Cables at Relays

IMPORTANT: The rubber sleeves on the two brown ground wires at the relays do not have to be replaced.

1. Remove the left battery from the battery box.
2. Remove the red and yellow cables from the relays in the back of the battery box.
3. Remove any rubber sleeves from the cables, even if undamaged.
4. Clean the cables and components, as needed, to remove any dust or debris.
5. Apply heat shrink tubing (sleeve) around the cables and terminals and heat-seal them.
6. Install the cables on the relays. Align all ring terminals so that the positive and negative cables do not cross and are not tied together. See [Fig. 7](#).

Torque the M8 nuts on the red and yellow cables to 8.12 lbf-ft (11 N·m).

If loosened to reposition the brown ground wires, torque the M6 screws to 3.1 lbf-ft (4.2 N·m).



**Fig. 7, Correct Installation Before Wax is Applied
(relays shown)**

7. Apply corrosion protection wax to the relay threaded studs.

Replace the Sleeves on Red and Yellow Cables at Battery Disconnect Switch

IMPORTANT: The heat shrink tubing on the two black main battery cables at the battery disconnect switch do not have to be replaced.

1. Remove the protective housing from the battery disconnect switch.
2. Remove the red and yellow cables from battery disconnect switch.
3. Remove any rubber sleeves from the cables, even if undamaged. See [Fig. 3](#).
4. Clean the cables and components, as needed, to remove any dust or debris.
5. Apply heat shrink tubing (sleeve) around the cables and terminals and heat-seal them.
6. Install the cables on battery disconnect switch; torque the M10 nuts to 13.28 lbf-ft (18 N·m).

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7. Apply corrosion protection wax to the battery disconnect switch threaded studs.
8. Install the protective housing on the battery disconnect switch.
9. Clean a spot on the base label (Form WAR259). Write the recall number, FL867, on a completion sticker (Form WAR260), and attach it to the base label to indicate this recall has been completed.