

**November 2017
SF545AB**

Subject: Freightliner Cascadia Combined ESC/AAVA Bracket

**Models Affected: Freightliner Cascadia vehicles manufactured
May 3, 2016, through June 6, 2017.**

General Information

Daimler Trucks North America LLC, on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF545AB to modify the vehicles mentioned above.

Under certain road conditions, the use of a combined Electronic Stability Control/Accessory Air Valve Assembly (ESC/AAVA) mounting bracket allows for too much movement of the Electronic Stability Control (ESC) module. This leads to possible internal failure of the ESC module and contributes to increased occurrence rate of fault codes.

The ESC/AAVA brackets and hardware will be replaced as needed.

There are approximately 3,878 vehicles involved.

Additional Repairs

Dealers must complete all outstanding 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 part(s) and kit number listed below from your facing Parts Distribution Center.

If our records show your dealership has ordered any vehicle(s) involved in campaign SF454AB, a list of the customers and vehicle identification numbers will be available on DTNAConnect.com. Please refer to this list when ordering parts for this campaign.

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Table 1 - Replacement Parts for SF545AB

Campaign Number	Kit Number	Part Description	Part Number	Qty. per Kit
SF545A	N/A	BRKT-ASSY, WABCO ESC	A66-10114-000	1 ea
		BRACKET-MTG ASSY, SOLENOID PACK	A12-29016-000	1 ea
SF545A	25-SF545-000 (Hardware Kit)	NUT	DDE N910112008000	4 ea
		NUT-FLG	N210100 012000	1 ea
		SCREW-HEXFLGH, PC 10.9, M12X040	23-14047-040	1 ea
		SCREW, HEX FLNG, M8X1.25X30	N910105 008016	2 ea
		SCRW HEX FLNG, M8X1.25X45,	DDE N910143008006	5 ea
		NUT-HEX FLG, M8X1.25, PRVL TRQ	DDE N000000003175	5 ea
		WSHR-STL, HDND, ZNAL, BK, .500	23-14091-004	2 ea
		NUT-HEX, LKG, ZNAL, BK, M12X1.5	23-14072-112	2 ea
		Blank Completion Sticker	WAR260	1 ea
SF545B	N/A	BRKT-ASSY, WABCO ESC	A66-10114-000	1 ea
SF545B	25-SF545-001 (Hardware Kit)	NUT	DDE N910112008000	4 ea
		NUT-FLG	N210100 012000	1 ea
		SCREW-HEXFLGH, PC 10.9, M12X040	23-14047-040	1 ea
		SCREW, HEX FLNG, M8X1.25X30	N910105 008016	2 ea
		Blank Completion Sticker	WAR260	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
SF545A	Replace ESC/AAVA Bracket	0.8	996-F012A	12-Repair Recall/Campaign
SF545B	Replace ESC Bracket	0.5	996-F012B	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 group (**SF545-A, SF545-B**).
- In the Primary Failed Part field, enter **25-SF545-000**.

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- In the Parts section, enter the appropriate part(s) and kit number 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 39-6010A for 0.3 hours.
- The VMRS Component Code is **013-010-390** and the Cause Code is **A1 - Campaign**.
- This Field Service Campaign will **terminate on November 30, 2018**. 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, after normal business hours, 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: Freightliner Cascadia Combined ESC/AAVA Bracket

Daimler Trucks North America LLC, on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF545AB to modify specific Freightliner Cascadia vehicles manufactured May 3, 2016, through June 6, 2017.

Under certain road conditions, the use of a combined Electronic Stability Control/Accessory Air Valve Assembly (ESC/AAVA) mounting bracket allows for too much movement of the Electronic Stability Control (ESC) module. This leads to possible internal failure of the ESC module and contributes to increased occurrence rate of fault codes.

The ESC/AAVA brackets and hardware will be replaced as needed.

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.Daimler-TrucksNorthAmerica.com. On the menu tab, select "Contact", scroll down to "Find A Dealer", and select the appropriate brand. The campaign will take approximately one hour and will be performed at no charge to you.

This Field Service Campaign will **terminate on November 30, 2018**. 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 7:00 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) 385-4357, after normal business hours, if you have any questions or need additional information.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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Work Instructions

Subject: Freightliner Cascadia Combined ESC/AAVA Bracket

Models Affected: Freightliner Cascadia vehicles manufactured
May 3, 2016, through June 6, 2017.

ESC or ESC/AAVA Bracket - Inspect and Replace

1. Inspect the base label (Form WAR259) for a campaign completion sticker for SF545 (Form WAR261), indicating that the work has been completed. If a completion sticker is present for campaign SF545, no work is needed. If there is no sticker, proceed with the steps below.
2. Park the vehicle, shut down the engine, and apply the parking brakes. Chock the tires.

IMPORTANT: Some vehicles may already have the AAVA/ESC bracket replaced. To ensure a quality repair, if the new bracket(s) have already been installed on the vehicle, the fasteners must be replaced with what is supplied in the kit and torqued to spec. Please follow the procedure as prescribed, and reuse the new bracket(s) if found on the vehicle.

3. Locate the ESC Module on the crossmember, aft of the transmission, and disconnect the electrical connector. See [Fig. 1](#).



Fig. 1, ESC Connector

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4. Remove the cable ties that secure the rail-to-rail ground to the inside top of the cross member. See [Fig. 2](#).



Fig. 2, Rail-to-Rail Ground

5. If equipped, remove all AAVA valves from the bracket. Inside the bracket, hold the nut in place with a boxed-end wrench to keep it from spinning while removing the bolt. See [Fig. 3](#).



Fig. 3, Wrench Holding the Nut in Place

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NOTE: It is not necessary to secure the nuts when removing the ESC/AVAA bracket. The nuts are welded to the bracket.

6. Remove the two bolts securing the ESC/AVAA bracket to the crossmember, then remove the bracket. See [Fig. 4](#).



Fig. 4, Crossmember Backside, with the Old Bracket Installed

7. Remove the ESC module from the bracket. See [Fig. 5](#).



Fig. 5, Removing the ESC Module from the Old Bracket

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8. Secure the ESC Module to the new bracket, as shown in [Fig. 6](#). The text on the bracket should be facing up, and the connector on the ESC should be on the tapered side of the bracket. Torque the nuts to 15 lb·ft ft ± 1 (20 N·m ± 1.5).



Fig. 6, Installing the ESC on the New Bracket

9. Remove the lower crossmember fastener shown in [Fig. 4](#). This fastener will be reused to mount the new ESC bracket.
10. If installing the new AAVA bracket, remove the upper crossmember fastener. See [Fig. 4](#).

IMPORTANT: The text on the ESC Module label should be facing up when the bracket is installed on the cross-member.

11. Install the new ESC bracket as shown. Torque the smaller fasteners to 11 lb·ft ft ± 15% (15 N·m ± 15%) and the larger fastener to 60 lb·ft ft ± 15% (81 N·m ± 15%). See [Fig. 7](#).



Fig. 7, New ESC Bracket Fasteners

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12. Secure the rail-to-rail ground cable to the inside bottom of the crossmember with cable ties, as shown in [Fig. 8](#).



Fig. 8, Ground Cable Secured to the Bottom of the Frame Rail

13. On Daycabs, add a butterfly cable tie to the rail-to-rail ground cable and the battery ground cable to prevent rubbing. See [Fig. 9](#).



Fig. 9, Butterfly Cable

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14. If equipped with AAVA valve(s), install the new AAVA bracket. Torque the nuts to 60 lb·ft $\pm$ 15% (81 N·m $\pm$ 15%). See [Fig. 10](#).



Fig. 10, Crossmember with AVAA Bracket Installed

15. Install the AAVA valves as they were configured on the old bracket. Torque fastener to 11 lb·ft $\pm$ 15% (15 N·m $\pm$ 15%). See [Fig. 11](#).



Fig. 11, AVAA Valves

16. Connect the electrical connector to the ESC Module.

NOTE: Some ESC related fault codes will require driving the vehicle in a straight line for 100 meters and then turning the steering wheel a minimum of 180 degrees to calibrate the ESC.

17. If any ESC related faults were present, clear the faults.

18. Clean a spot on the base label (Form WAR259). Write the campaign number, SF545, on a blank gray completion sticker (Form WAR261) to indicate the work has been completed and attach it to the base label.