

August 2018
SF542A-Y
REVISED NOTICE

Subject: New Cascadia Retrofit

**Models Affected: Specific Freightliner Pre-series Cascadia models
manufactured June 13, 2016, through February 13, 2017.**

General Information

REVISIONS: The Parking Brake Dash Valve Replacement procedure is an incorrect repair for this campaign. The correct repair is the Park Brake Pressure Switch Replacement procedure. The Repair Procedure table and the work instructions have been updated to reflect the correct repair. A figure and an additional step have been added to the Common Telematics Platform (cTP) Update procedure.

NOTE: For vehicles in SF542F-Y, due to the number of repair procedures involved in this campaign, the repair must be scheduled in advance to ensure the dealership has obtained the required work instructions and parts.

- Vehicles in SF542A-E, refer to Table 3 on page 6 for the required procedures for each group.
- Vehicles in SF542F-Y, submit a WSC ticket to the Warranty Campaigns department for individualized work instructions, parts listing, and SRTs.

Daimler Trucks North America LLC, on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF542A-Y to modify the vehicles mentioned above.

The early production New Cascadia vehicles may not perform optimally under all conditions.

A range of updates (mechanical and software) will be performed and bring the early units to current production level.

There are approximately 220 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 from your facing Parts Distribution Center.

- For vehicles in SF542A-E, order the appropriate kit from Table 1, Replacement Parts for SF542A-E.
- For vehicles in SF542F-Y, submit a WSC ticket to the Warranty Campaigns department for individualized work instructions, parts list, and SRTs.

If our records show your dealership has ordered any vehicle(s) involved in campaign SF542A-Y, a list of the customers and vehicle identification numbers will be available on DTNACconnect.com. Please refer to this list when ordering parts for this campaign.

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Table 1 - Replacement Parts for SF542A-E

NOTE: For vehicles in SF542-A and SF542-D, some parts in the kits will not be used in the repair and can be discarded. These parts are called out under the Part Description in the table below.

NOTE: For vehicles in SF542F-Y, submit a WSC ticket to the Warranty Campaigns department for individualized work instructions, parts list, and SRTs.

Campaign Number	Kit Number	Part Description	Part Number	Qty. Per Kit
SF542-A SF542-C	25-SF543-005	BRKT-UNDER RAD,ITOC,P4 (Part not used in Group A)	A07-24411-000	1 ea
		SCRW HEX FLNG,M8X1.25X20	23-13345-020	2 ea
		NUT-HEX FLANGE, M8 X 1.25 X 8.74	DDE N000000003175	2 ea
		NUT-U,METRIC,M8X1.25	23-12625-010	2 ea
		BOLT-CARRIAGE,M8X20	23-13952-020	1 ea
		SWITCH-PARK, NC 10.0 PSI (Part not used in Group A)	12-28548-000	1 ea
		DTNA HARDWARE-CTP,MID,CUST	66-05466-001	1 ea
		CABLE,ANT,BT/WIFI,INTR	A66-07720-000	1 ea
SF542-D	25-SF542-007	VALVE,RELAY,3PSI,AFFIXED	WAB 976 200 100 0	1 ea
		VLV-ABS COMBO,6PORT,ATC,5.5PSI	WAB 976 000 105 0	1 ea
		VLV-ABS COMBO,7PORT,ATC,5.5PSI	WAB 976 000 107 0	1 ea
		DUCT-AIR DISTRIBUTION,HVAC (Part not used in Group D)	A22-73653-000	1 ea
		BRKT-UNDER RAD,ITOC,P4	A07-24411-000	1 ea
		SCRW HEX FLNG,M8X1.25X20	23-13345-020	2 ea
		NUT-HEX FLANGE, M8 X 1.25 X 8.74	DDE N000000003175	2 ea
		NUT-U,METRIC,M8X1.25	23-12625-010	2 ea
		BOLT-CARRIAGE,M8X20	23-13952-020	1 ea
		SUPT-HOOD,REAR,CAB MTD,LH (Part not used in Group D)	A17-21080-000	1 ea
		SUPT-HOOD,REAR,CAB MTD,RH (Part not used in Group D)	A17-21080-001	1 ea
		DUCT-AIR INTK,NGC 125,DD15 (Part not used in Group D)	03-42777-000	1 ea
		DUCT-AIR INTK,NGC 125,DD13 (Part not used in Group D)	03-42778-000	1 ea
		AIR CLNR-ENG MTD,P4 (Part not used in Group D)	03-42776-000	1 ea
		BAFFLE-RECIRC,P4,UPPER,AERO (Part not used in Group D)	05-33754-000	1 ea
		SCR-SEMS,HEXFLG,DOG PT,M6X20	23-14110-020	10 ea
		SWITCH-PARK, NC 10.0 PSI	12-28548-000	1 ea
		RADAR-FRONTEND,2 HIGH P (Part not used in Group D)	A 000 446 22 49	1 ea
SF542-B	25-SF542-008	BRKT-UNDER RAD,ITOC,P4	A07-24411-000	1 ea
		SCRW HEX FLNG,M8X1.25X20	23-13345-020	2 ea
		NUT-HEX FLANGE, M8 X 1.25 X 8.74	DDE N000000003175	2 ea
		NUT-U,METRIC,M8X1.25	23-12625-010	2 ea
		BOLT-CARRIAGE,M8X20	23-13952-020	1 ea
		SWITCH-PARK, NC 10.0 PSI	12-28548-000	1 ea

Table 1, continues on the next page

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Campaign Number	Kit Number	Part Description	Part Number	Qty. Per Kit
SF542-E	25-SF542-009	BRKT-UNDER RAD,ITOC,P4	A07-24411-000	1 ea
		SCRW HEX FLNG,M8X1.25X20	23-13345-020	2 ea
		NUT-HEX FLANGE, M8 X 1.25 X 8.74	DDE N000000003175	2 ea
		NUT-U,METRIC,M8X1.25	23-12625-010	2 ea
		BOLT-CARRIAGE,M8X20	23-13952-020	1 ea
		SWITCH-PARK, NC 10.0 PSI	12-28548-000	1 ea
		DTNA HARDWARE-CTP,MID,CUST	66-05466-001	1 ea
		CABLE,ANT,BT/WIFI,INTR	A66-07720-000	1 ea

Table 1, continued from the previous page

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

NOTE: For vehicles in SF542F-Y, submit a WSC ticket to the Warranty Campaigns department for individualized work instructions, parts list, and SRTs.

Table 2 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
SF542A	Ground Torque, VTHU, CTP, and Foot Brake procedures	1.3	996-F019A	12-Repair Recall/Campaign
SF542B	Ground Torque, Park Valve, ITOC, and Foot Brake procedures	1.8	996-F019B	
SF542C-E	Ground Torque, VTHU, CTP, Park Valve, ITOC, and Foot Brake procedures	2.5	996-F019C	

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

REVISIONS: The Parking Brake Dash Valve Replacement procedure is an incorrect repair for this campaign. The correct repair is the Park Brake Pressure Switch Replacement procedure. The Repair Procedure table and the work instructions have been updated to reflect the correct repair. A figure and an additional step have been added to the Common Telematics Platform (cTP) Update procedure.

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 (**SF542-A, SF542-B, etc.**).
- In the Primary Failed Part field, enter **25-SF542-000**.

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- In the Parts section, enter the appropriate kit 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 **032-001-039** and the Cause Code is **A1 - Campaign**.
- This Field Service Campaign will **terminate on June 30, 2019**. 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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REVISED BULLETIN

Copy of Notice to Owners

Subject: New Cascadia Retrofit

Daimler Trucks North America LLC, on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF542A-Y to modify specific Freightliner Pre-series Cascadia models manufactured June 13, 2016, through February 13, 2017.

The early production New Cascadia vehicles may not perform optimally under all conditions.

A range of updates (mechanical and software) will be performed and bring the early units to current production level.

Please contact an authorized Daimler Trucks North America dealer to arrange to have the campaign performed.

Advance arrangement are required to ensure the dealership has obtained the individualized work instructions for your vehicle. To locate an authorized dealer, search online at

www.Daimler-TrucksNorthAmerica.com / Contact Us / Find a Dealer. The campaign will take approximately three to four hours, depending on the work needed, and will be performed at no charge to you.

This Field Service Campaign will **terminate on June 30, 2019**. 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: New Cascadia Retrofit

Models Affected: Specific Freightliner Pre-series Cascadia models
manufactured June 13, 2016, through February 13, 2017.

REVISIONS: The Parking Brake Dash Valve Replacement procedure is an incorrect repair for this campaign. The correct repair is the Park Brake Pressure Switch Replacement procedure. The Repair Procedure table and the work instructions have been updated to reflect the correct repair. A figure and an additional step have been added to the Common Telematics Platform (cTP) Update procedure.

Procedures

- For vehicles in SF542A-E, refer to Table 3 on for the procedures required for each group.
- For vehicles in SF542F-Y, submit a WSC ticket to the Warranty Campaigns department for individualized work instructions, parts list, and SRTs. Due to the number of repair procedures involved in this campaign, the repair must be scheduled in advance to ensure the dealership has obtained the required work instructions and parts.

Table 3 - Repair Procedures

Campaign Number	Kit Number	Procedures Required
SF542-A (6 VINs)	25-SF542-005	sSAM Ground Torque Check
		Virtual Technician HU Removal
		Common Telematics Platform (cTP) Update (Base or Mid)
		Foot Valve Torque Check
SF542-B (24 VINs)	25-SF542-008	sSAM Ground Torque Check
		Park Brake Pressure Switch Replacement
		ITOC Bracket Replacement
		Foot Valve Torque Check
SF542-C (68 VINs)	25-SF542-005	sSAM Ground Torque Check
		Virtual Technician HU Removal
		Common Telematics Platform (cTP) Update (Base or Mid)
		Park Brake Pressure Switch Replacement
		ITOC Bracket Replacement
		Foot Valve Torque Check
SF542-D (3 VINs)	25-SF542-007	sSAM Ground Torque Check
		Virtual Technician HU Removal
		Common Telematics Platform (cTP) Update
		Park Brake Pressure Switch Replacement
		ITOC Bracket Replacement
		Foot Valve Torque Check
SF542-E (10 VINs)	25-SF542-009	sSAM Ground Torque Check
		Virtual Technician HU Removal
		Common Telematics Platform (cTP) Update
		Park Brake Pressure Switch Replacement
		ITOC Bracket Replacement
		Foot Valve Torque Check
SF542F-Y	Submit WSC	Submit a WSC ticket to the Warranty Campaigns Dept. for individualized work instructions, parts list, and SRTs.

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sSAM Ground Torque Check

1. Park the vehicle on a level surface, shut down the engine, and apply the parking brakes. Chock the tires.
2. Disconnect the batteries.
3. Remove the dash lower center console, the dash top cover, the footwell panel, and the dash switch panel. Refer to Section 60.06, Subject 100 in the *New Cascadia Workshop Manual* for instructions.
4. Open the vehicle power distribution module (VPDM) cover.
5. Check the torque at the single SAM (sSAM) ground. See [Fig. 1](#). Loosen the nut and torque to 9 lbf·ft (12 N·m).

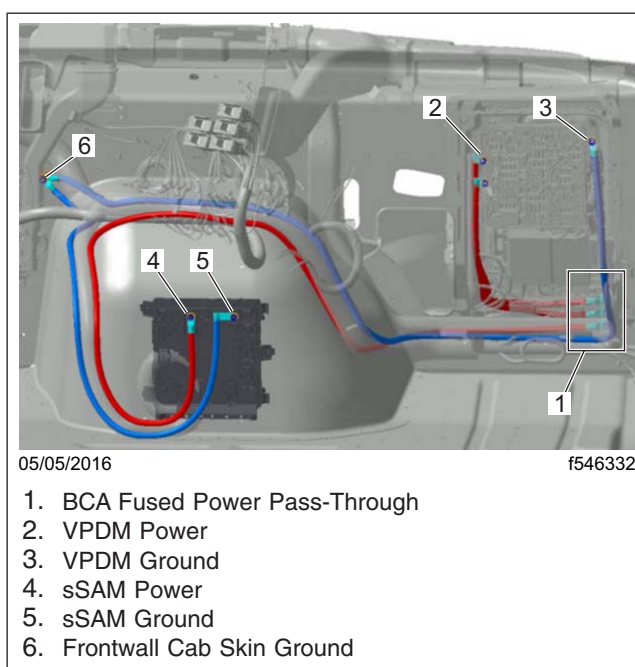


Fig. 1, sSAM Ground Locations

6. Remove the HVAC ducting that sits in front of the ground stud, then remove the stud-mounted cable tie. Refer to Cab Heater and Air Conditioner in the *New Cascadia Workshop Manual* for instructions.
7. Check the torque at the frontwall cab skin ground, The torque should be 7.3 lbf·ft (10 N·m). Loosen the nut and torque, if necessary.
8. Install the stud-mounted cable tie.
9. Install the HVAC ducting.

NOTE: Leave the dash top cover and dash panels off, and continue to the next procedure.

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Virtual Technician HU Removal

1. Remove the VPDM from the electronics bay. Refer to Section 54.08, Subject 100 in the *New Cascadia Workshop Manual* for instructions.
2. Check to see if the Virtual Technician HU (VTHU) is still installed. See **Fig. 2**. If the VTHU has been removed, verify that the VTHU connector is capped and secured. No further action is necessary. Continue with the next procedure listed for the vehicle.

If the VTHU is still installed, continue with step 3.

3. Disconnect the VTHU harness connectors.
4. Remove the VTHU, and discard.
5. Remove the VTHU GPS antenna from the top of the electronics bay, and discard. See **Fig. 3**.

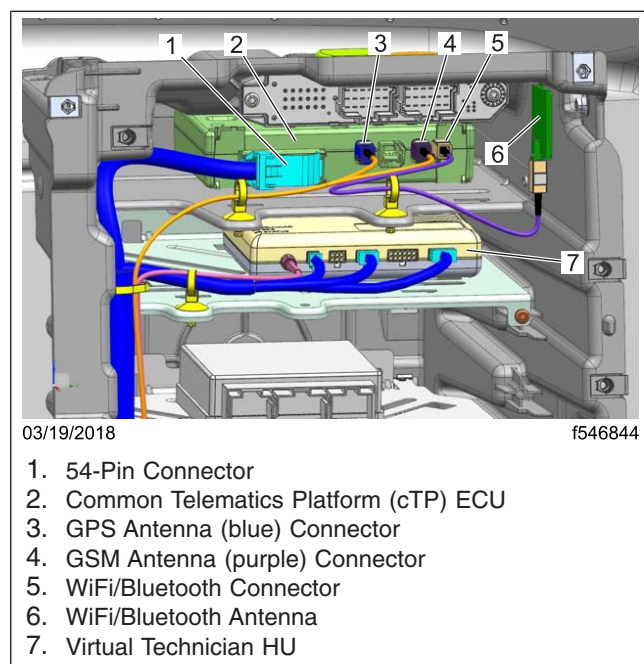


Fig. 2, Virtual Technician and Common Telematics Platform in the Electronics Bay

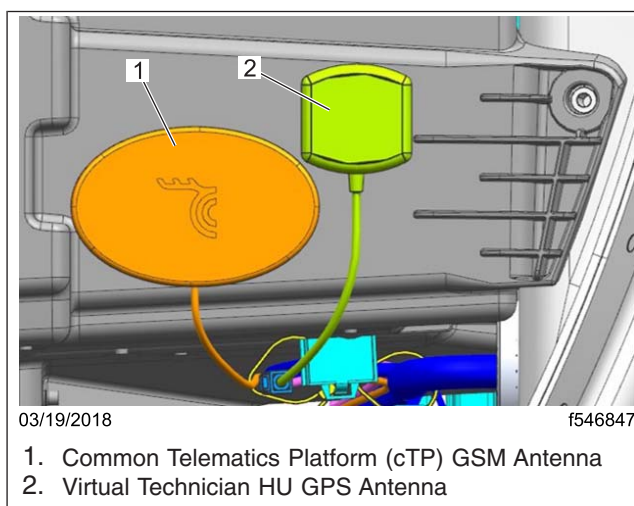


Fig. 3, Top of the Electronics Bay

6. Cap the VTHU connector and antenna connector with heat shrink tubing, and secure it against the main harness bundle.
7. Label the VTHU harness.

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Common Telematics Platform (cTP) Update

1. Disconnect the 54-pin connector, the GPS antenna connector, the GSM antenna connector, and the WiFi/Bluetooth antenna connector from the cTP. See [Fig. 2](#).

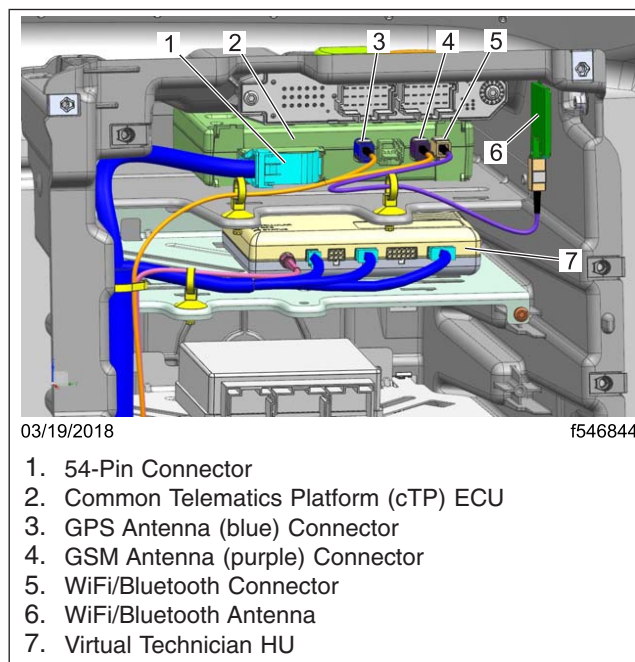
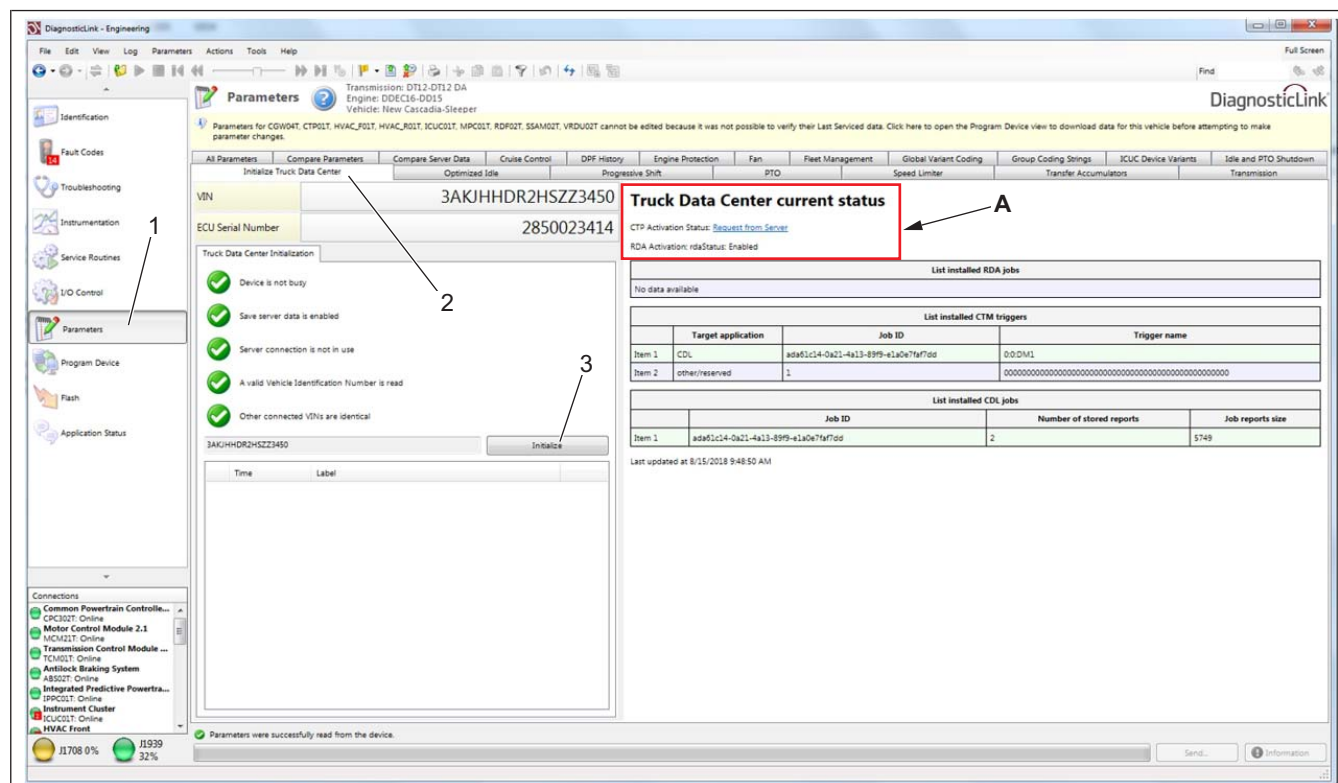


Fig. 2, Virtual Technician and Common Telematics Platform in the Electronics Bay

2. Remove the common telematics platform (cTP) ECU from the electronics bay by pressing the cTP ECU firmly towards the back of the electronics bay to release the ECU from the forward mounting slots. Lift the ECU and pull it out of the bay.
3. Check the part number on the cTP ECU. If the part number is **NOT** 66-05466-001, install the new cTP ECU with part number 66-05466-001 supplied in the kit.
If the part number is 66-05466-001, continue with step 4.
4. Check the inside wall of the electronics bay. If an antenna is installed, go to step 6.
If no WiFi/Bluetooth antenna is installed, continue with step 5.
5. Remove the peel strip from the adhesive backing on the antenna, and adhere it to the inside wall of the electronics bay, near the cTP.
6. Position the cTP ECU in the electronics bay, then press the ECU firmly towards the back of the shelf. Lower the front of the ECU on to the surface of the shelf and adjust its position horizontally until the tabs on the ECU are fully seated in the mounting slots.
7. Connect the antenna to the cTP, and all other connections that were removed earlier. See [Fig. 2](#).
8. Initialize the cTP.
 - 8.1 Connect the vehicle to DiagnosticLink. Click on "Parameters" then select the "Initialize Truck Data Center" tab. Run the initialization procedure by clicking on the "Initialize" button. See [Fig. 4](#).

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A. The cTP status can be verified by reviewing the "Truck Data Center Current Status" field.

1. Parameters
2. Truck Data Center Tab
3. Initialize Button

Fig. 4, Initialize Truck Data Center Panel

- 8.2 Wait 15 minutes to allow the new cTP information to be processed on the servers.
- 8.3 Confirm the active status of the cTP by requesting the status in the upper right-hand section of the panel. Take a screenshot of the status to confirm initialization, and to submit with warranty claims.
9. Install the VPDM, but leave the cover open for the next procedure. Refer to Section 54.08, Subject 100 in the *New Cascadia Workshop Manual* for instructions.

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Park Brake Pressure Switch Replacement

1. Remove the lower dash panels and the steering wheel column on the driver side of the vehicle. Refer to Section 60.06, Subject 100 in the *New Cascadia Workshop Manual* for instructions.
2. Remove the throttle pedal cover.
3. Remove the air pressure switch. See [Fig. 5](#), ref. 1.

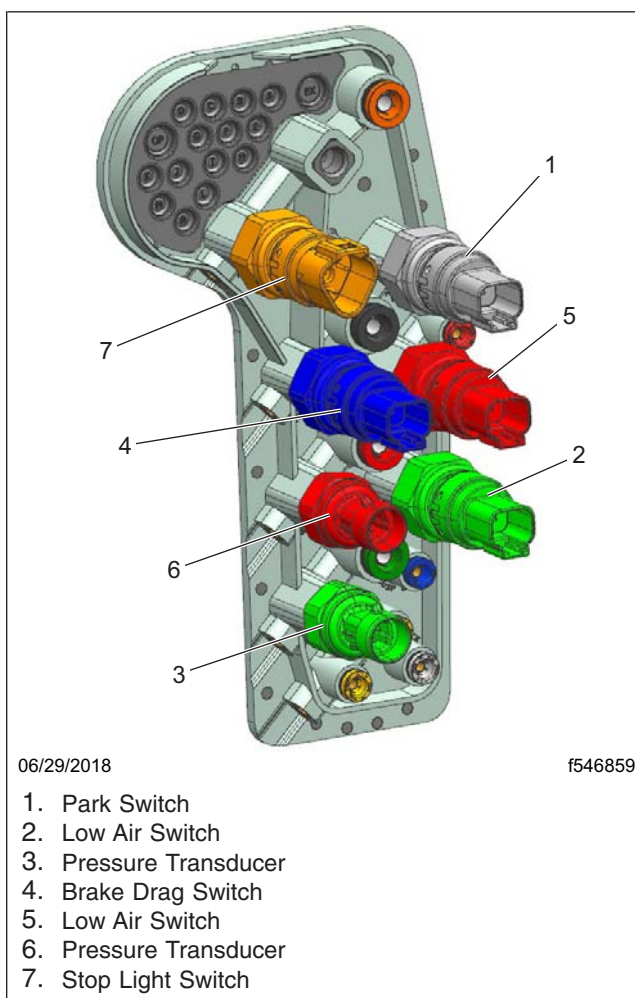


Fig. 5, Dash Pressure Switch Connector

4. Install the switch supplied in the kit.
5. Connect the switch connector to the air pressure switch.
6. Using the three screws, install the throttle pedal cover.
7. Install the dash panels and the throttle pedal cover.

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ITOC Bracket Replacement

1. Remove the jumper line clamp bolt, and save the clamp and spacers.
2. Install the new U-nuts and carriage bolt supplied in the kit in the lower radiator tank. See [Fig. 6](#).
3. Loosely install the new line support bracket.
4. Install the jumper line clamps, spacers, and nuts and finger tighten. See [Fig. 7](#).
5. Tighten the carriage bolt, front bracket bolts, and line clamp nut to 11 lbf-ft (15 N·m).

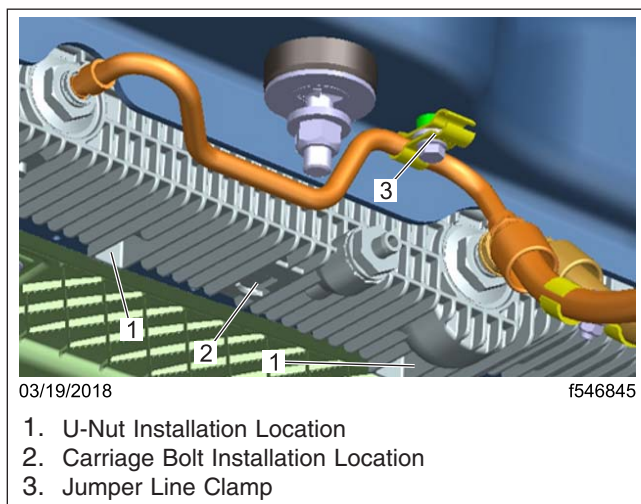


Fig. 6, ITOC Assembly

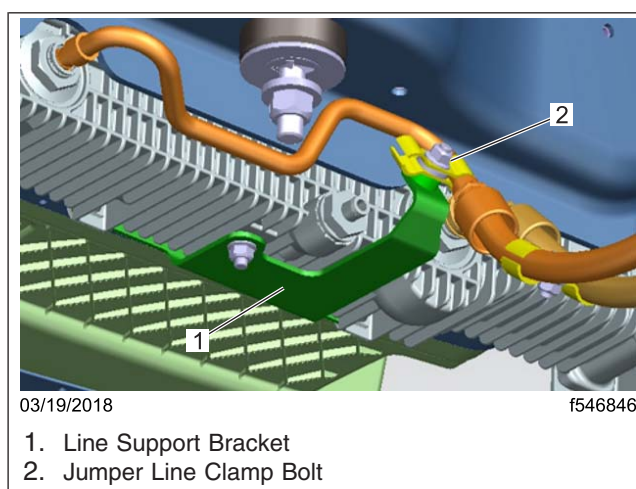


Fig. 7, ITOC Assembly with Jumper Line Clamp Installed

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Foot Brake Valve Torque Check

Figure 8 shows the brake valve mounting.

1. Open the hood.
2. Check the torque on the four mounting bolts. The torque should be 14 to 17 lbf-ft (19 to 23 N-m). Adjust the torque as necessary.

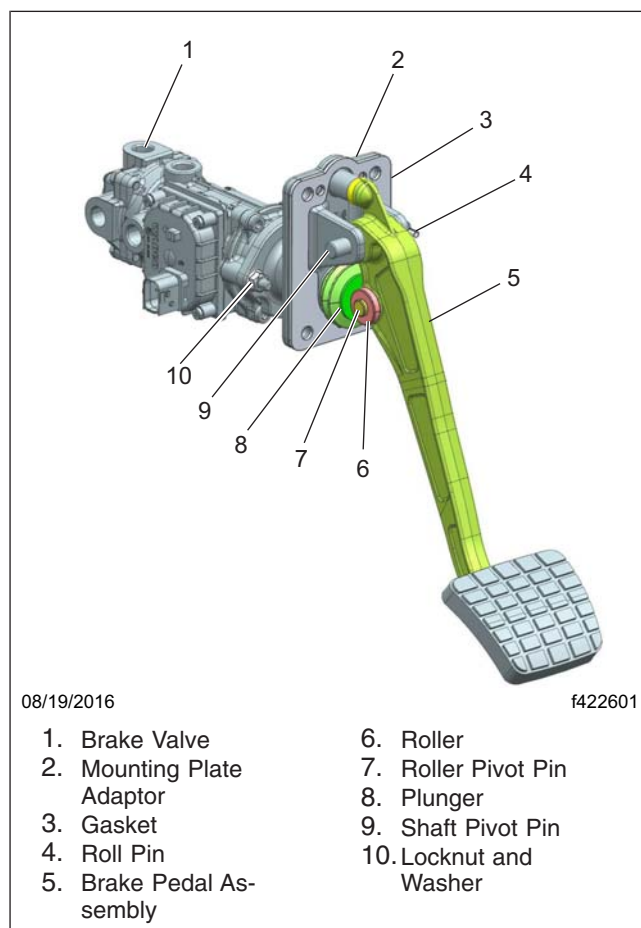


Fig. 8, Brake Valve Mounting

3. Close the hood.
4. Clean a spot on the base label (Form WAR259). Write the campaign number, SF542, on a blank grey completion sticker (Form WAR261) to indicate the work has been completed, and attach it to the base label.