

July 2022  
FL935A-C  
NHTSA #22V-379  
Transport Canada #2022-276

## Subject: FCCC XC Valor Tire Pressure Monitoring System

**Models Affected: Specific model year 2017-2022 Freightliner Custom Chassis Corporation XCM, XCP, XCR, and XCS models, manufactured December 15, 2015, through July 22, 2021.**

### General Information

Daimler Truck North America LLC (DTNA), on behalf of its wholly-owned subsidiary, Freightliner Custom Chassis Corporation (FCCC), has decided that a defect which relates to motor vehicle safety exists on the vehicles mentioned above.

The tire pressure monitoring system (TPMS) may display incorrect information, such as maximum temperature and tire pressure, and/or a message that the tires are under or over-inflated. The information displayed by the TPMS may misinform or confuse the driver, increasing the risk of a crash.

The TPMS controller will be updated with new software, and certain units will receive a longer antenna mounting bracket to extend the rear antenna downward. Repairs will be performed by DTNA authorized service facilities.

There are approximately 2,632 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 number(s) listed below from your facing Parts Distribution Center.

If our records show your dealership has ordered any vehicle(s) involved in campaign number FL935, 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 FL935

Campaign Number	Part Number	Part Description	Qty.
FL935 A,C	N/A	SOFTWARE UPDATE ONLY	N/A
FL935 B	06-09782-014	BRKT-MTG BATTERY CABLE	1 ea
ALL GROUPS	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
FL935 A,C	Update TPMS Software	0.3	996-R147A	12-Repair Recall/Campaign
FL935 B	Update TPMS Software, Install Bracket	0.6	996-R147B	12-Repair Recall/Campaign

**Table 2**

### IMPORTANT - Before Beginning Work:

- Check OWL to ensure the vehicle is involved and the campaign has not previously been completed.
- Check the vehicle for a completion sticker.

### IMPORTANT - After Repair is Complete:

- Attach a red completion sticker (Form WAR260) to the base completion label (Form WAR259). If the vehicle does not already have a base completion label, clean a spot on the appropriate location of the vehicle, and attach a base completion label, prior to installing the completion sticker.

## Claims for Credit

You will be reimbursed for your parts, labor, and handling (landed cost for Export Distributors) by submitting a claim. Please reference the following information in OWL:

- All claims must be submitted within 30 days of the repair date.
- Claim type is **Recall Campaign**.
- In the Campaign field, enter the campaign number and group code (**FL935-A, FL935-B, etc.**).
- In the Primary Failed Part field, enter **25-FL935-000**.
- In the Parts section, enter the appropriate part 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 939-6010A for 0.4 hours for RVs or 0.3 hours for all other vehicles.
- 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 documentation of the previous repair.
  - Check 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.)
  - If eligible, include the customer's expense on the FL935 claim in the Other Charges section.
  - Attach the customer's documentation (including invoice and proof-of-payment) to the claim.
  - Once the claim has been paid, reimburse the customer the appropriate amount.

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**Excess Inventory:** U.S. and Canadian dealers, following the conclusion of the campaign, within 90 days from the termination date, excess inventory in resalable condition may be returned to the appropriate PDC. U.S. dealers, submit a PAR to request return to the Memphis PDC. Canadian dealers, return inventory to your facing PDC. Export Distributors, excess inventory is not returnable.

**For Support:** Contact the Warranty Campaigns Department via the Warranty Support Center at [DTNACONNECT.COM/WSC](https://DTNACONNECT.COM/WSC) or the Customer Assistance Center at (800) 385-4357. Export distributors, submit a WSC ticket or contact your International Service Manager.

The letter notifying U.S. and Canadian 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.

## Copy of Notice to Owners

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### Subject: FCCC XC Valor Tire Pressure Monitoring System

**For the Notice to U.S. Customers:** This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act. **For the Notice to Canadian Customers:** This notice is sent to you in accordance with the requirements of the Motor Vehicle Safety Act. This is to inform you that your vehicle may contain a defect that could affect the safety of a person.

Daimler Truck North America LLC (DTNA), on behalf of its wholly-owned subsidiary, Freightliner Custom Chassis Corporation (FCCC), has decided that a defect which relates to motor vehicle safety exists on certain model years 2017-2022 Freightliner Custom Chassis Corporation XCM, XCP, XCR, and XCS vehicles manufactured December 15, 2015, through July 22, 2021.

The tire pressure monitoring system (TPMS) may display incorrect information, such as maximum temperature and tire pressure, and/or a message that the tires are under or over-inflated. The information displayed by the TPMS may misinform or confuse the driver, increasing the risk of a crash.

The TPMS controller will be updated with new software, and certain units will receive a longer antenna mounting bracket to extend the rear antenna downward. Repairs will be performed, at no charge, by DTNA authorized service facilities.

Please contact an authorized DTNA dealer to arrange to have the Recall performed and to ensure that parts are available at the dealership. The Recall will take approximately one hour and will be performed at no charge to you. To locate an authorized dealer, search online at <https://northamerica.daimlertruck.com/contact-us/>. Scroll down to "Locate a Dealer," and select the appropriate brand. You may also confirm your vehicle's involvement in this recall at <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 in the postage-paid envelope 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, 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, e-mail address [dtna.warranty.campaigns@daimlertruck.com](mailto:dtna.warranty.campaigns@daimlertruck.com). **For the Notice to U.S. Customers:** 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 go to <http://www.nhtsa.gov>. **For the Notice to Canadian Customers:** If you wish to submit a complaint about this recall, you can contact Transport Canada road safety, 80 rue Noel, Gatineau, Quebec J8Z 0A1 or call (800) 333-0510.

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 Truck 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:

- Name and address of the person who paid for the repair
- 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
- Total cost of the repair expense that is being claimed
- Proof of payment for repair (such as front and back of a cancelled check or a credit card receipt)

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

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

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## Work Instructions

### Subject: FCCC XC Valor Tire Pressure Monitoring System

**Models Affected:** Specific model year 2017-2022 Freightliner Custom Chassis Corporation XCM, XCP, XCR, and XCS models, manufactured from December 15, 2015, through July 22, 2021.

**FL935 A and B (Gen 1 TPMS):** A flash cable is required to perform the software update. If you do not already have flash cable 110310000440, contact SpartanLync, email: support@spartanlync.com, phone: 905-631-6800. A flash cable will be provided by SpartanLync free of charge.

**FL935 C:** Instructions begin on page 16.

## FL935 A and B - Generation 1 Tire Pressure Monitoring System (TPMS) Electronic Control Unit (ECU) Software Update Software Download

NOTE: The configuration file only has to be downloaded once; this file can be used to update multiple vehicles.

1. Inspect the base label (Form WAR259) for a campaign completion sticker for FL935 (Form WAR260). If a sticker is present for FL935, no work is needed. If there is no sticker, proceed with the steps below.
2. On the computer, go to the SpartanLync WIKI website <https://help.spartansense.com/PublicHome>.
3. Under 'Public Resources,' select 'Hardware.' See [Fig. 1](#).

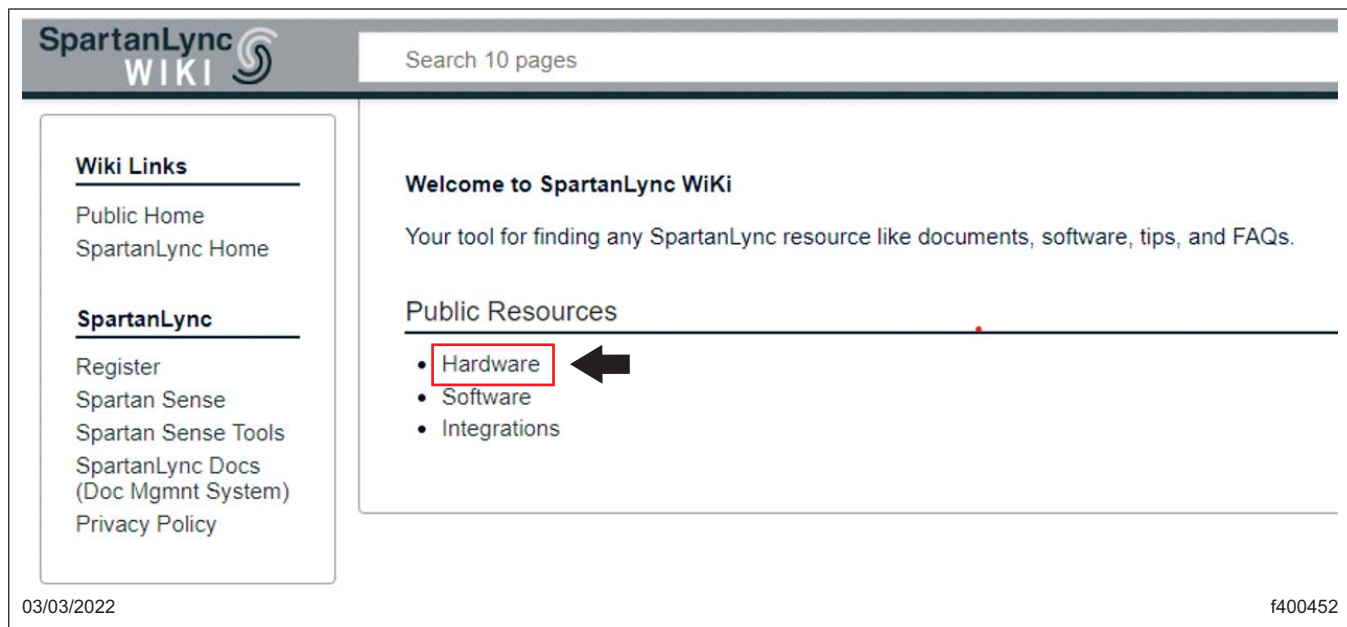
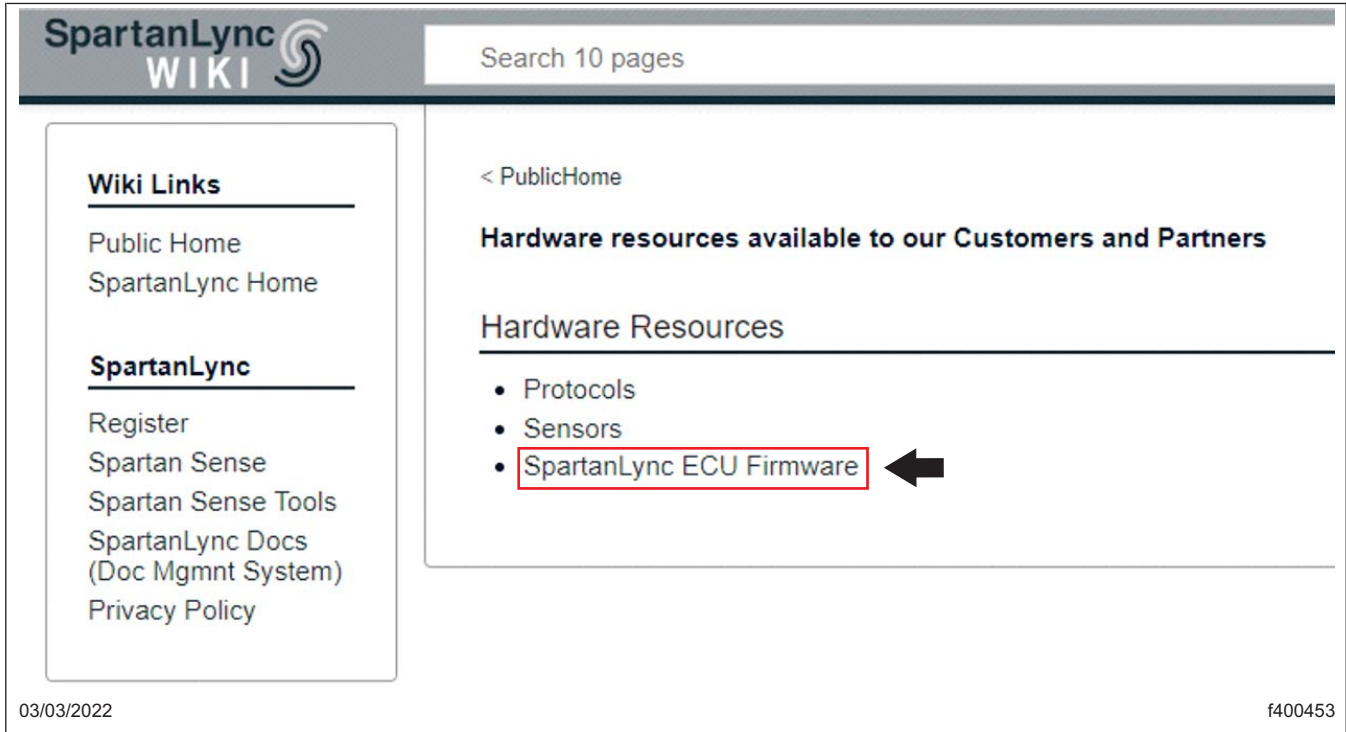


Fig. 1, Selecting Hardware

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4. Under 'Hardware Resources,' select 'SpartanLync ECU Firmware.' See **Fig. 2**.



**Fig. 2, Selecting SpartanLync ECU Firmware**

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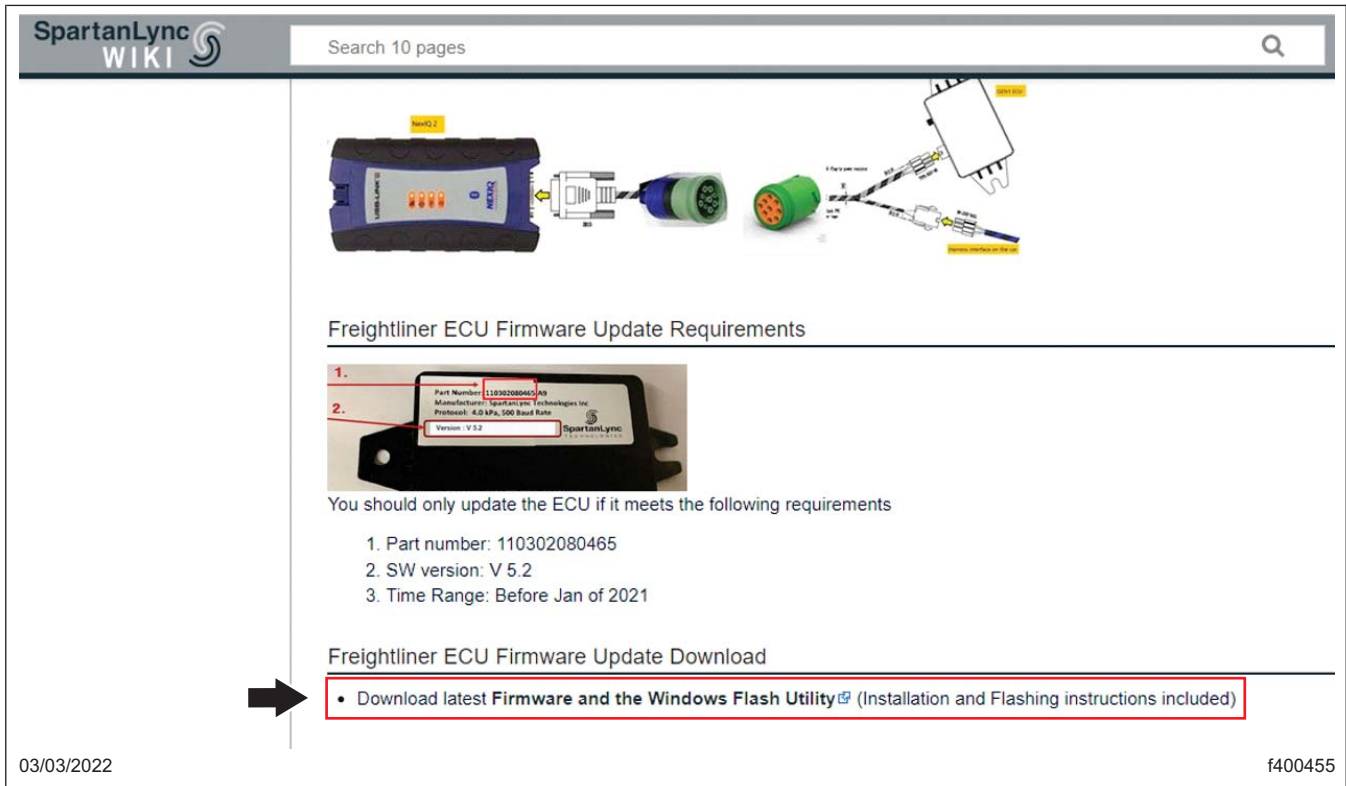
5. Under 'SpartanLync ECU Firmware,' select 'Gen 1 ECU Firmware (for Freightliner).' See **Fig. 3**.

The screenshot shows a web browser displaying the SpartanLync Wiki page. The page title is 'SpartanLync ECU Firmware'. The main content area includes a breadcrumb trail '< PublicHome | Hardware', a section header 'SpartanLync ECU Information and documentation', and a sub-section 'SpartanLync ECU Firmware'. Below this, there is a paragraph describing the ECU as the central electronic control unit for communication with TPMS and TempTrac sensors. An image of the ECU hardware is shown with a label that reads: 'Part Number: 110302080465-A9', 'Manufacturer: SpartanLync Technologies Inc.', 'Protocol: 4.0 kPa, 500 Baud Rate', and 'Date: 11/01/2021 | Version: V5.3'. Below the image, the text 'Follow the links below to firmware for specific ECU hardware' is followed by a bulleted list containing 'Gen 1 ECU Firmware (for Freightliner)'. This list item is highlighted with a red rectangular box, and a black arrow points to it from the right. The left sidebar contains 'Wiki Links' (Public Home, SpartanLync Home) and 'SpartanLync' (Register, Spartan Sense, Spartan Sense Tools, SpartanLync Docs, Privacy Policy). A 'More' section lists 'Permanent link', 'Printable version', 'Page information', 'What links here', 'Related changes', and 'Page logs'. The footer shows the date '03/03/2022' and the ID 'f400454'.

**Fig. 3, Selecting Gen 1 ECU Firmware**

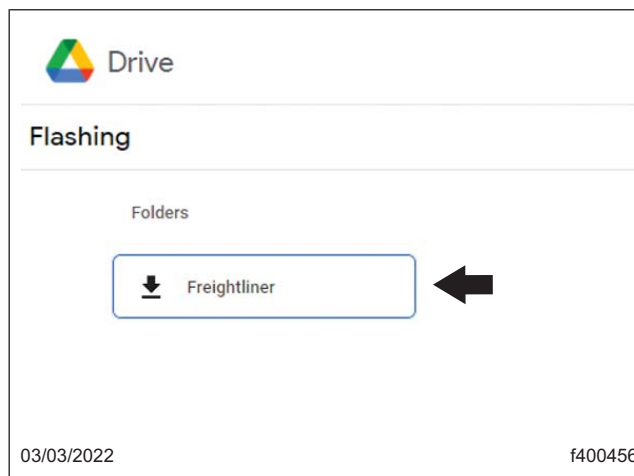
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6. Under the 'Freightliner ECU Firmware Update Download,' select 'Download latest Firmware and the Windows Flash Utility.' See **Fig. 4**.



**Fig. 4, Selecting Download latest Firmware and the Windows Flash Utility**

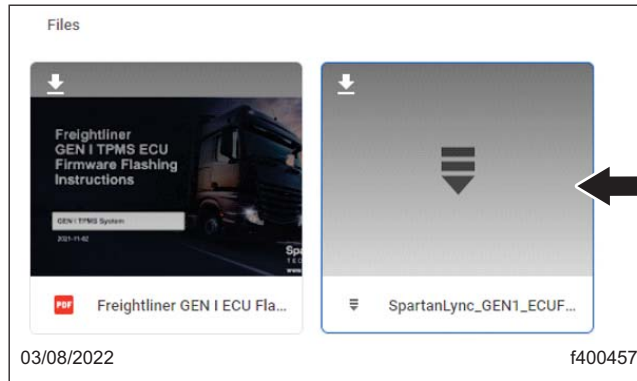
7. In the new tab that appears, open the 'Freightliner' folder. See **Fig. 5**.



**Fig. 5, Opening the Freightliner Folder**

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8. In the 'Freightliner' folder,' open the 'SpartanLync\_GEN1\_ECUFreightliner.zip' folder. See **Fig. 6**.



**Fig. 6, Opening the  
SpartanLync\_GEN1\_ECUFreightliner.zip Folder**

9. Download the 'SpartanLync\_GEN1\_ECUFreightliner.zip.' See **Fig. 7**.

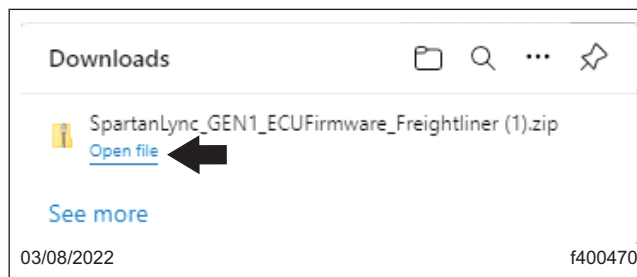


**Fig. 7, Downloading  
SpartanLync\_GEN1\_ECUFreightliner.zip Folder**

NOTE: Depending on the operating system and/or the browser, the computer may either ask you to select a location to save, or automatically save the file in a default location.

If the operating system downloads the file to a default location, the user can open the compressed (zip) file using the link on the browser, then extract the files on the desktop.

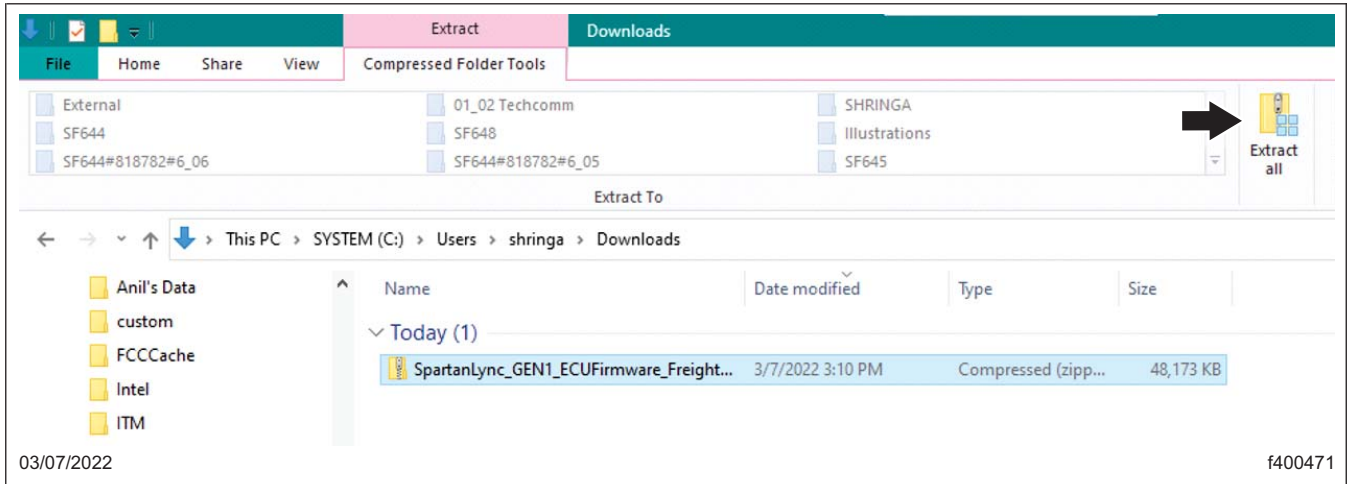
10. A download box will appear in the upper right corner of the browser window. Once the download is complete, select 'Open file.' See **Fig. 8**.



**Fig. 8, Link to Open the Downloaded File**

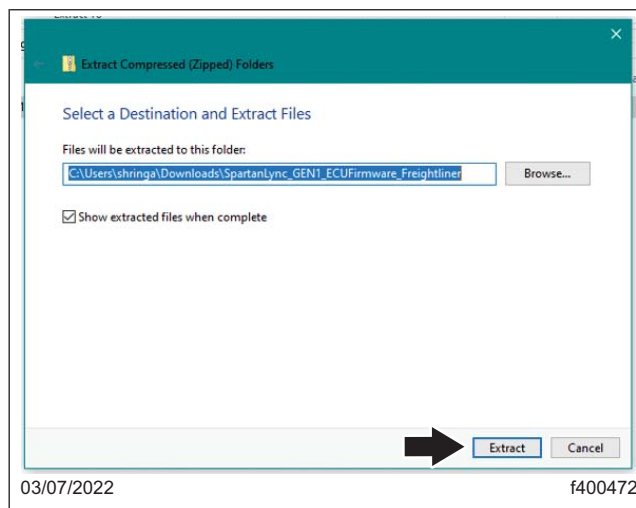
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11. Select the 'Extract all' button. See [Fig. 9](#).



**Fig. 9, Extract All Button**

12. In the next screen, select the destination you want the files to be extracted to, then select 'Extract.'  
See [Fig. 10](#) and [Fig. 11](#).



**Fig. 10, Extract Compressed (zipped) Folders Window**

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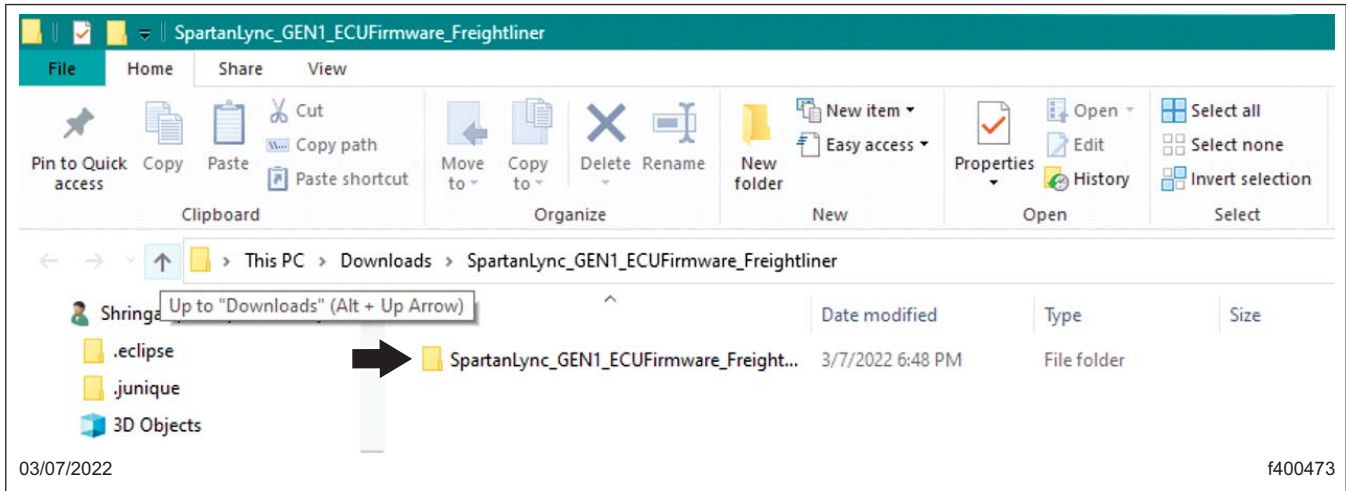


Fig. 11, Extracted Folder

13. Open the extracted folder, then run the 'GEN\_I\_TPMS\_Firmware\_Flash\_UTILITY\_v1.0.exe' file to install. See Fig. 12.

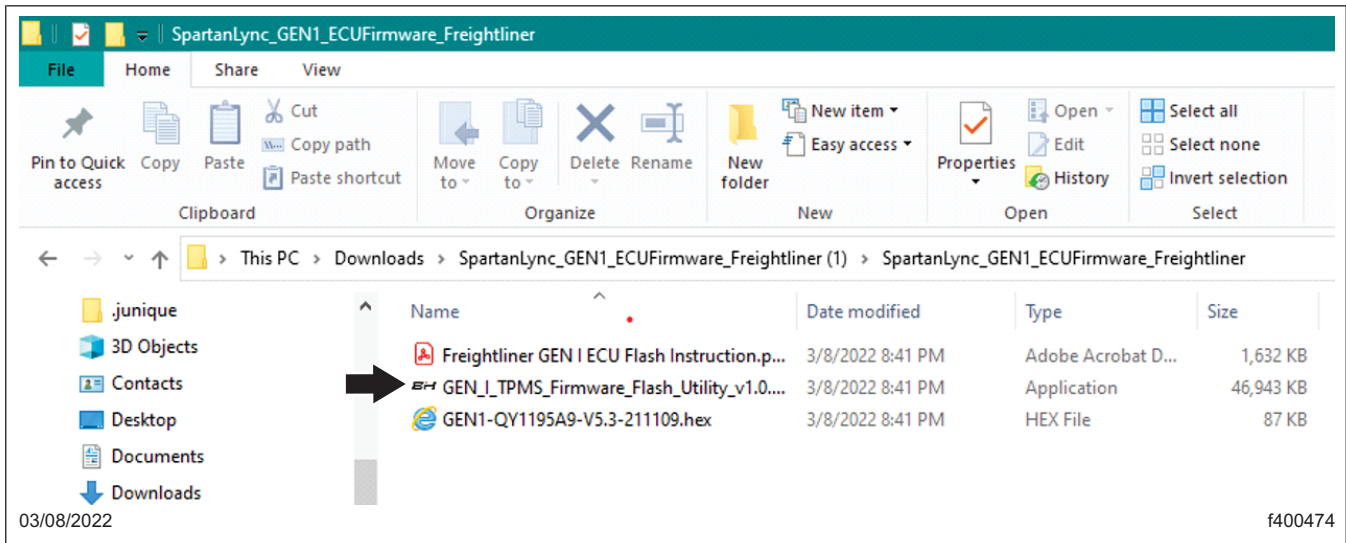


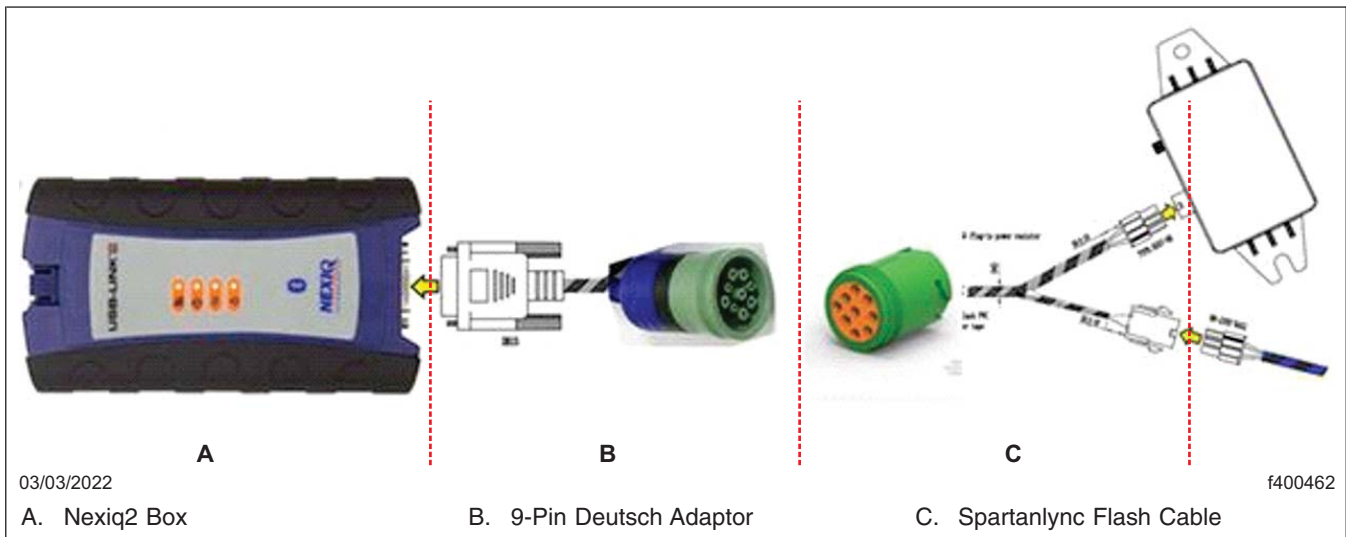
Fig. 12, GEN I TPMS Firmware Flash Utility v1.0.exe Setup File Location

14. Continue to TPMS ECU Software Update on the next page.

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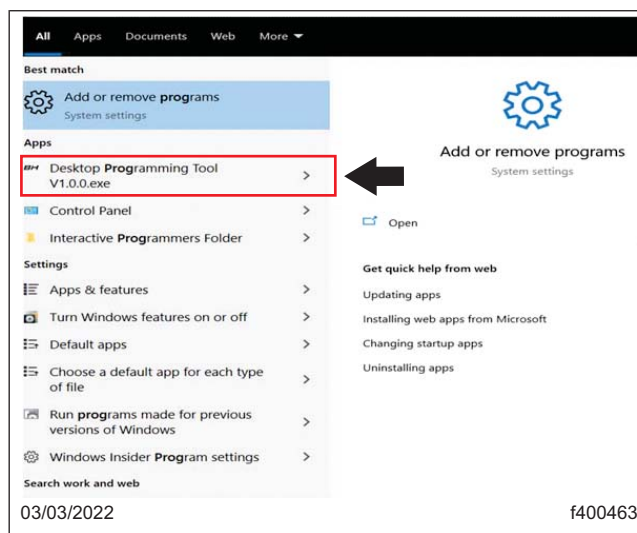
## TPMS ECU Software Update

1. Park the vehicle on a level surface, shut down the engine, and apply the parking brake. Chock the tires.  
**IMPORTANT:** Make notes, or take pictures, of the sensor identification numbers and the wheel locations on which they were installed as this information may be lost during the software update.
2. Disconnect the TPMS ECU electrical connector.
3. Connect the Nexiq2 box to the TPMS ECU, and to the TPMS dash electrical connector as shown in **Fig. 13**.



**Fig. 13, Connecting the Nexiq2 Box to the TPMS ECU and to the TPMS Dash Electrical Connector**

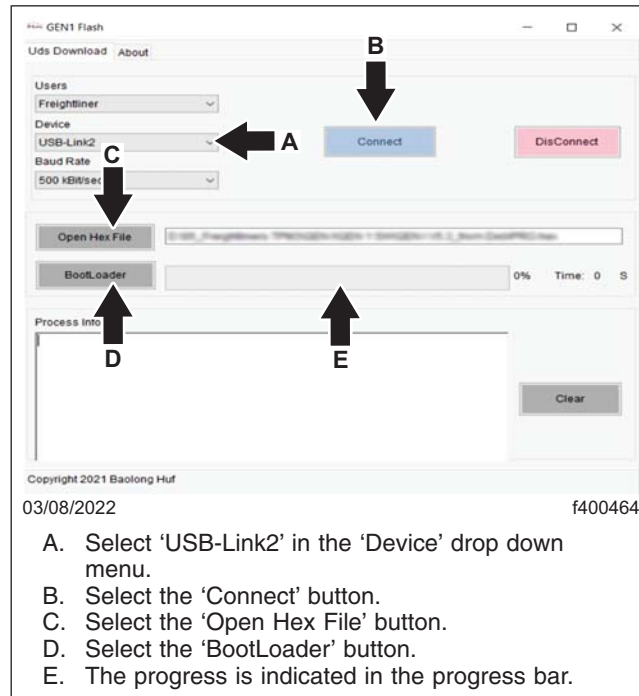
4. In the Windows search bar, search for 'Desktop Programming Tool.' In the search results that appear, select 'Desktop Programming Tool V1.0.0.exe.' See **Fig. 14**.



**Fig. 14, Searching Desktop Programming Tool**

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- Once the 'Desktop Programming Tool' is launched, follow the substeps to perform the software update. See [Fig. 15](#).



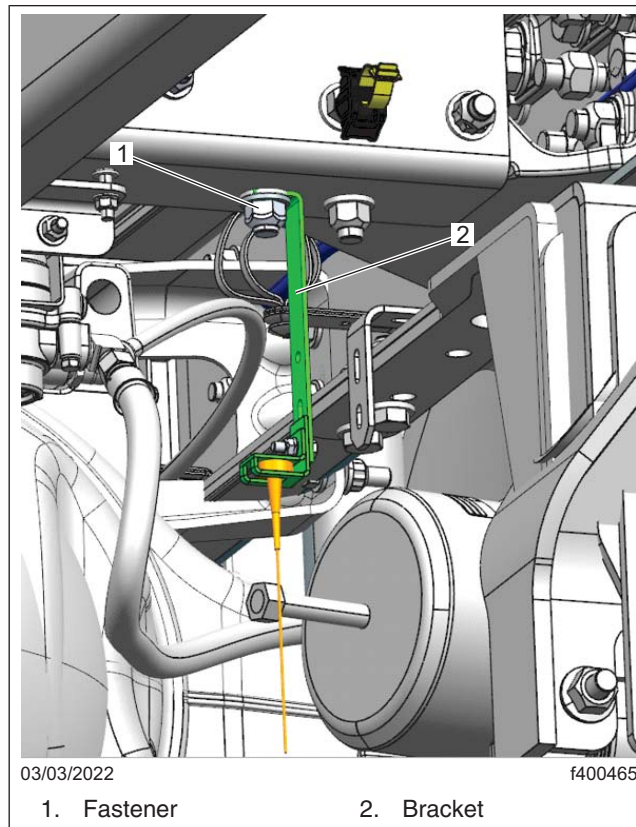
**Fig. 15, GEN1 Flash Window**

- In the 'Device' drop down menu, select 'USB-Link2,' then select the 'Connect' button. See [Fig. 15](#).
  - Select the 'Open Hex File,' then select the 'GEN1-QY1195A9-V5.X-XXXXXX.hex' file path. See [Fig. 15](#).
  - Select 'BootLoader' to start the software programming process. The software update progress will be indicated in the progress bar. See [Fig. 15](#).
- Once the software update is complete, disconnect the Spartanlync flash cable from the TPMS ECU and the TPMS dash electrical connector. See [Fig. 13](#).
  - Connect the TPMS dash electrical connector to the TPMS ECU.
  - FL935 B Only:** Go to FL935 B - TPMS Antenna Bracket Installation, on the next page.
  - Verify the connection to the wheel sensors in the dash display.
  - FL935 A Only:** Clean a spot on the base label (Form WAR259) and attach a campaign completion sticker for FL935 (Form WAR260) indicating this work has been completed.

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## FL935 B - TPMS Antenna Bracket Installation

1. Under the crossmember above the drive axle, locate the inboard 15/16 inch nut and washer on the left-hand side of the vehicle. See [Fig. 16](#). Remove the nut and washer.



**Fig. 16, TPMS Antenna Bracket Installed**

2. Install the bracket 06-09782-014 on the bolt that the nut and washer were removed from, then install the washer and nut. See [Fig. 16](#). Tighten the nut 119 lbf·ft (161 N·m).
3. Remove the TPMS antenna from the midship crossmember above the drive axle.
4. Install the TPMS antenna on the bracket as shown in [Fig. 16](#).
5. Verify the TPMS antenna connection to the wheel sensors in the dash display.
6. Clean a spot on the base label (Form WAR259) and attach a campaign completion sticker for FL935 (Form WAR260) indicating this work has been completed.

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## FL935 C - Generation 3 TPMS ECU Software Update Software Download

NOTE: The configuration file only has to be downloaded once; this file can be used to update multiple vehicles.

1. Inspect the base label (Form WAR259) for a campaign completion sticker for FL935 (Form WAR260). If a sticker is present for FL935, no work is needed. If there is no sticker, proceed with the steps below.
2. Go to DTNA Connect then select the three menu bars at the upper right-hand corner of the web page. See [Fig. 17](#).

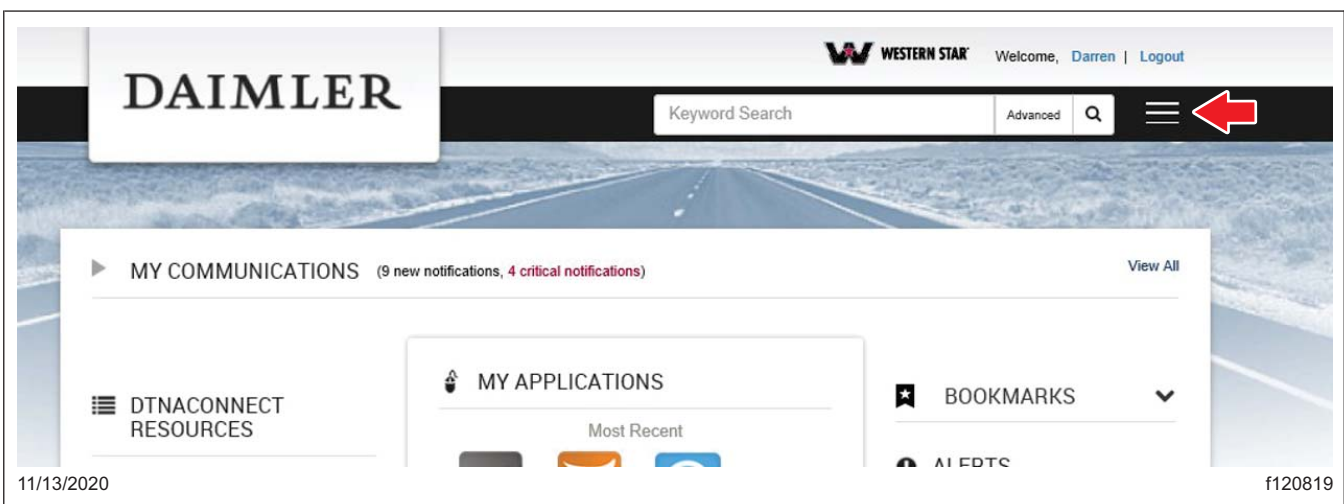


Fig. 17, DTNA Connect Home Screen

3. Select 'Support,' and then select 'Download Center.' See [Fig. 18](#).

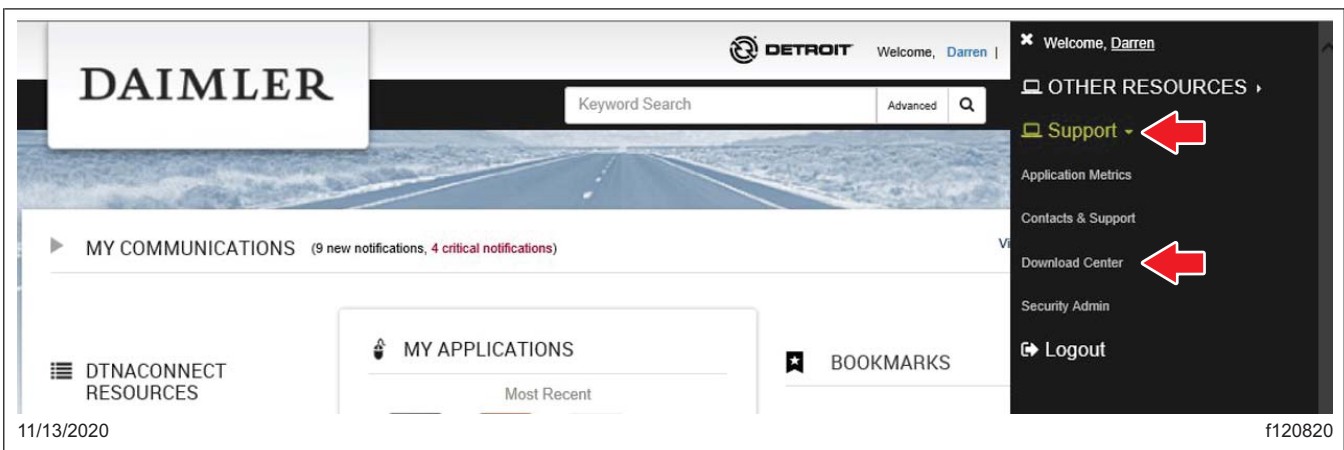


Fig. 18, Selecting Download Center

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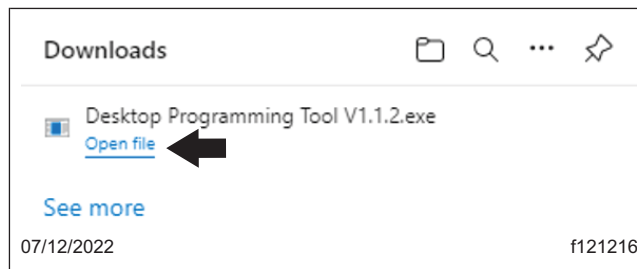
4. Scroll down to 'FCCC TPMS UPDATER TOOL,' then select the '+' symbol. Select 'Desktop Programming Tool V1.1.2.exe.' See **Fig. 19**.



**Fig. 19, FCCC TPMS UPDATER TOOL Download Link**

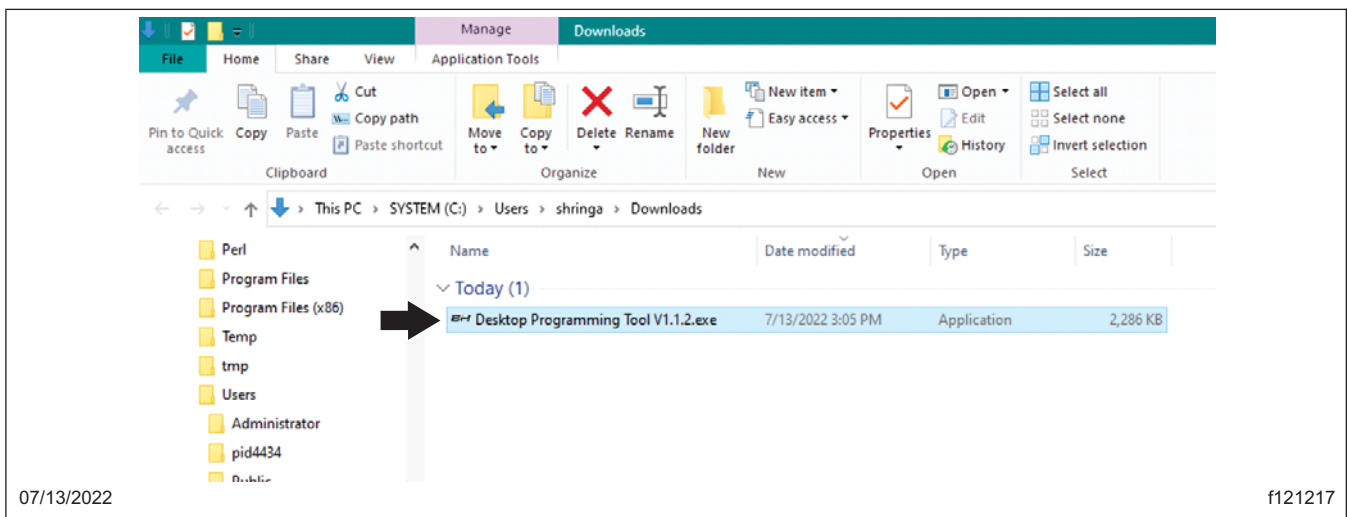
NOTE: Depending on the operating system and/or the browser, the computer may either ask you to select a location to save, or automatically save the file in a default location.

5. A download box will appear in the upper right corner of the browser window. Once the download is complete, select 'Open file.' See **Fig. 20**.



**Fig. 20, Link to Open the Downloaded Software**

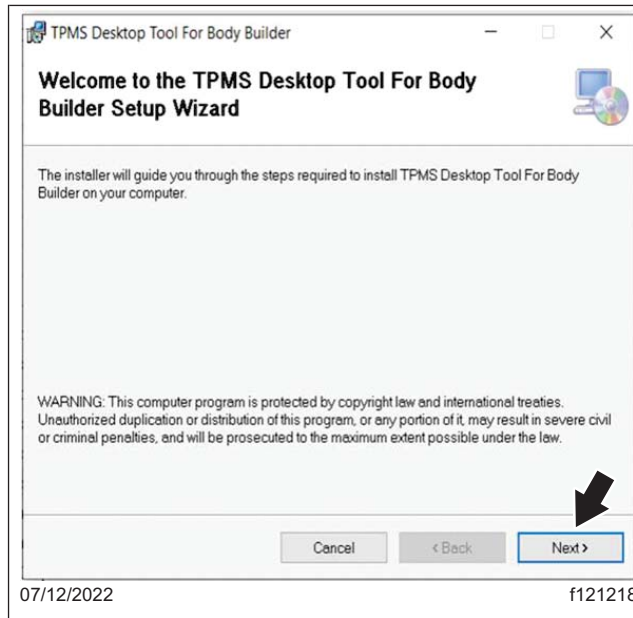
6. Run the 'Desktop Programming Tool V1.1.2.exe' file to install. See **Fig. 21**.



**Fig. 21, Desktop Programming Tool V1.1.2.exe Setup File Location**

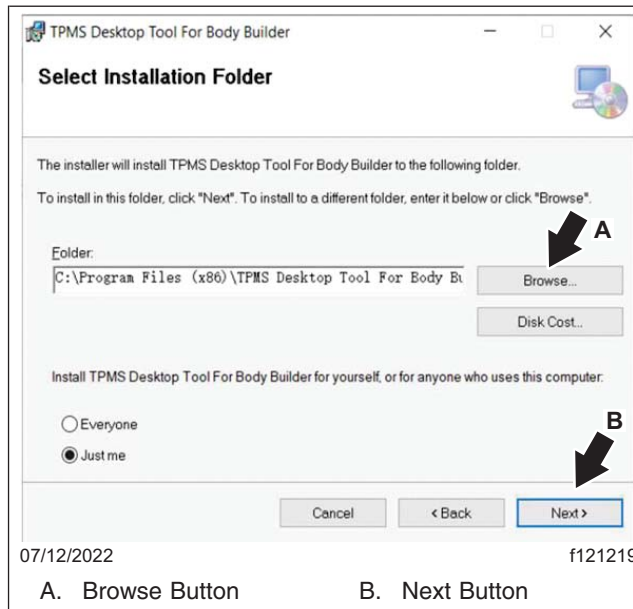
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7. Select the 'Next' button to continue the installation. See [Fig. 22](#).



**Fig. 22, Welcome to the TPMS Desktop Tool For Body Builder Setup Wizard Window**

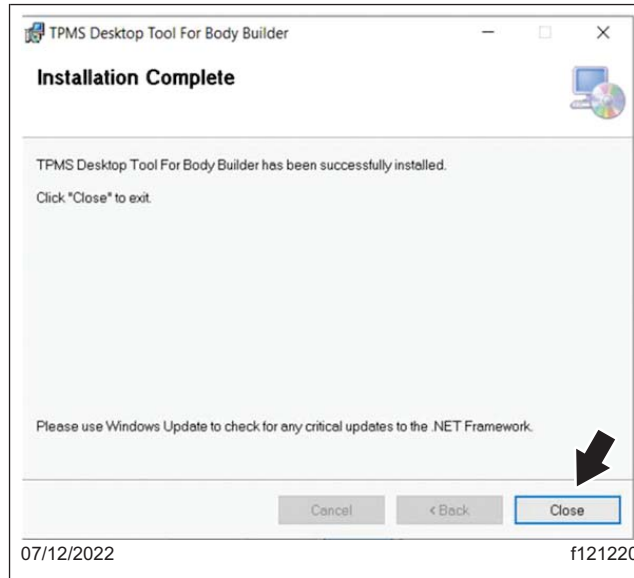
8. Select the 'Browse' button to install the file in the desired destination, then select 'Next.' See [Fig. 23](#).



**Fig. 23, Select Installation Folder Window**

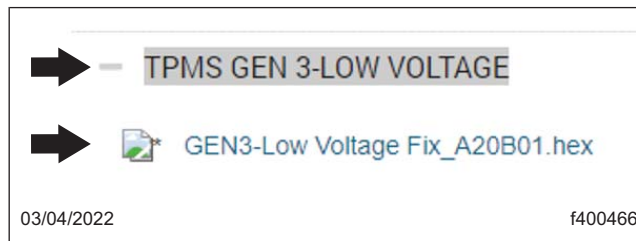
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9. Select 'Close' to exit. The 'Desktop Programming Tool' will now be installed. See [Fig. 24](#).



**Fig. 24, Installation Complete Window**

10. Go to DTNA Connect, then select the three menu bars at the upper right-hand corner of the web page. See [Fig. 17](#).
11. Select 'Support,' and then select 'Download Center.' See [Fig. 18](#).
12. Scroll down to 'TPMS GEN 3-LOW VOLTAGE,' then select the '+' symbol. Select 'GEN3-Low Voltage Fix\_A20B01.hex.' See [Fig. 25](#).



**Fig. 25, TPMS Gen 3-Low Voltage Software Download Link**

NOTE: Depending on the operating system and/or the browser, the computer may either ask you to select a location to save, or automatically save the file in a default location.

If the operating system downloads the file to a default location, the user can open the compressed (zip) file using the link on the browser, then extract the files on the desktop.

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13. A download box will appear in the upper right corner of the browser window. Once the download is complete, select 'Open file.' See **Fig. 26**.



**Fig. 26, Link to Open the Downloaded Software**

## Software Installation

1. Park the vehicle on a level surface, shut down the engine, and apply the parking brake. Chock the tires.

### NOTICE

**To ensure good battery voltage during programming, it is recommended to connect an appropriate battery charger to the vehicle batteries. Failure to do so could permanently damage the controller.**

IMPORTANT: Make notes, or take pictures, of the sensor identification numbers and the wheel locations on which they were installed as this information may be lost during the software update.

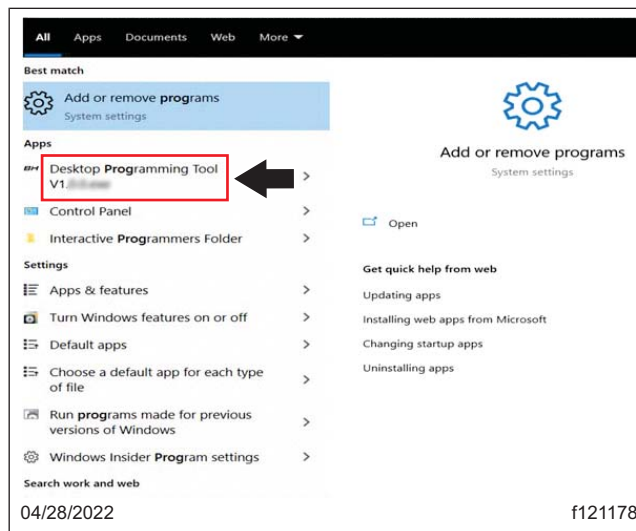
2. Turn the ignition key to the ON position, but make sure the engine is OFF.

IMPORTANT: Do not turn the ignition OFF until the software is installed and the system reboot is complete.

3. Connect the Nexiq2 box to the green diagnostic connector on the vehicle.

4. Connect the USB port on the Nexiq2 box to the computer.

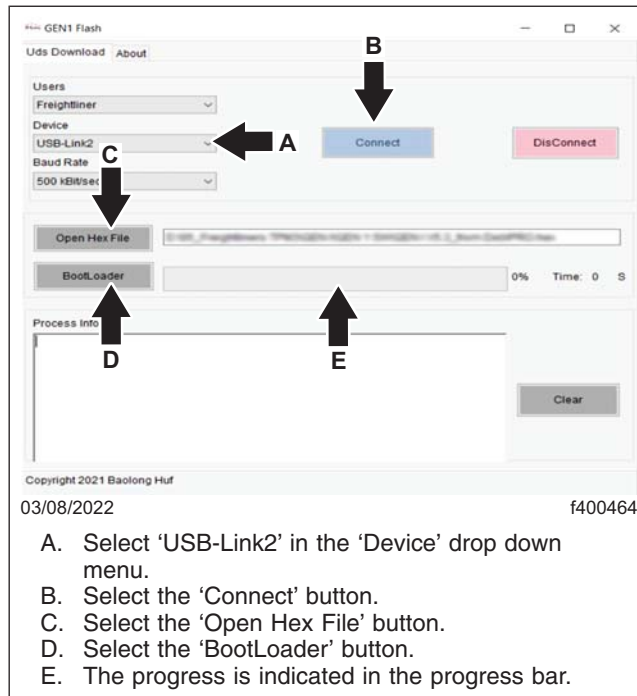
5. In the windows search bar, search for 'Desktop Programming Tool.' In the search results that appear, select 'Desktop Programming Tool V1.1.2.exe.' See **Fig. 27**.



**Fig. 27, Searching Desktop Programming Tool**

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- Once the 'Desktop Programming Tool' is launched, follow the substeps to perform the software update. See [Fig. 28](#).



**Fig. 28, GEN3 Flash Window**

- In the 'Device' drop down menu, select 'USB-Link2,' then select the 'Connect' button. See [Fig. 28](#).
  - Select the 'Open Hex File' then choose the 'GEN3-Low Voltage Fix\_A20B01.hex' file path. See [Fig. 28](#).
  - Select 'BootLoader' to start the software programming process. The software update progress will be indicated in the progress bar. See [Fig. 28](#).
- Once the software update is complete, disconnect the Nexiq2 box from the vehicle diagnostic port.
  - Verify the connection to the wheel sensors in the dash display.
  - Clean a spot on the base label (Form WAR259) and attach a campaign completion sticker for FL935 (Form WAR260) indicating this work has been completed.