



Service Engineering Operations
Customer Service Division

Ford Motor Company
PO Box 1904
Dearborn, Michigan 48121

April 28, 2025

TO: All U.S. Ford and Lincoln Dealers

**SUBJECT: NEW VEHICLE DEMONSTRATION / DELIVERY HOLD - Safety Recall 23S48 –
Supplement #1**

Certain 2020-2023 Model Year Aviator, 2021 -2023 Bronco, 2018-2021 Navigator,
2022-2023 Transit Vehicles with 360 Degree Camera System or HD Rear View
Camera

Replace Rear View Camera

REF: NEW VEHICLE DEMONSTRATION / DELIVERY HOLD - Safety Recall 23S48
Dated November 3, 2023

New! REASON FOR THIS SUPPLEMENT

- **Affected Vehicles and Build Dates:** Modified to include the 2022 and 2023 Bronco vehicles.
- **Parts List Update:** Modified to include the 2022 and 2023 Bronco vehicles.

New! AFFECTED VEHICLES

Vehicle	Model Years	Assembly Plant	Build Dates
Aviator	2020-2023	Chicago Assembly	October 20, 2018 through September 6, 2023
Bronco	2021-2023	Michigan Assembly	September 23, 2020 through October 31, 2023
Navigator	2018-2021	Kentucky Truck	March 16, 2017 through December 23, 2021
Transit	2022-2023	Kansas City	February 26, 2021 through October 27, 2023

U.S. population of affected vehicles: **304,709**. Affected vehicles are identified in OASIS and FSA VIN Lists.

REASON FOR THIS SAFETY RECALL

In the affected vehicles, customers may intermittently experience either a rear camera blue image or a full blue or black image on the SYNC screen when the vehicle is in reverse. Loss of rear camera image while in reverse increases the risk of a crash.

SERVICE ACTION

Before demonstrating or delivering any new in-stock vehicles involved in this recall, dealers are to replace the rear view camera. This service must be performed on all affected vehicles at no charge to the vehicle owner. For new vehicle storage guidelines, refer to EFC13033, Storage Guidelines for New Vehicles.

To assist vehicle owners to have this repair completed when parts are available, dealers should:

- Arrange to pick up the owner's vehicle and drive it to the dealership for repairs
 - Re-deliver the owner's vehicle after repairs have been completed.

- Pick-Up & Delivery should be made available for all customers. Refer to the Rental and Claiming sections for further details.

OWNER NOTIFICATION MAILING SCHEDULE

Parts to repair this condition are currently not available in sufficient quantities to service all of the *2022-2023 Broncos*. Therefore, to ensure an ample supply of parts is available, owners of affected vehicles will be notified in multiple separate mailings. The mailings will begin the *4th Quarter of 2025* or sooner *prioritized by model year*. Parts are currently available for all other vehicle lines and model years.

PLEASE NOTE:

Federal law requires dealers to complete this recall service before a new vehicle is delivered to the buyer or lessee. Violation of this requirement by a dealer could result in a civil penalty of up to \$27,168 per vehicle. Correct all vehicles in your new vehicle inventory before delivery.

New! ATTACHMENTS

- Administrative Information
- *Labor Allowances and Parts Ordering Information*
- Technical Instructions
- *Owner Notification Letters*
- *Recall Reimbursement Plan*

QUESTIONS & ASSISTANCE

For questions and assistance, contact the Special Service Support Center (SSSC) via the SSSC Web Contact Site. The SSSC Web Contact Site can be accessed through the Professional Technician System (PTS) website using the SSSC link listed at the bottom of the OASIS VIN report screen or listed under the SSSC tab.

Customer Service Division

Safety Recall 23S48 – Supplement #1**MOBILE SERVICE REPAIR ASSESSMENT LEVEL**

- All repairs in this program have the following assessment level:

Ⓢ - Not a Mobile Service Repair

OASIS ACTIVATION

OASIS will be activated on *April 28, 2025*

FSA VIN LISTS ACTIVATION

FSA VIN Lists for the *2022-2023 Broncos* will be available through <https://web.fsavinlists.dealerconnection.com> *in the 4th quarter 2025*. Owner names and addresses *for the 2022-2023 Broncos* will be available during the *4th quarter 2025*. *The VIN lists and owner names and addresses for all other vehicles in this FSA are currently available.*

NOTE: Your FSA VIN Lists may contain owner names and addresses obtained from motor vehicle registration records. The use of such motor vehicle registration data for any purpose other than in connection with this recall is a violation of law in several states, provinces, and countries. Accordingly, you must limit the use of this listing to the follow-up necessary to complete this recall.

SOLD VEHICLES

- Ford has not issued instructions to stop selling/delivering or driving used vehicles under this safety recall. Owners should contact their dealers for an appointment to have their vehicles remedied as soon as practicable.
- Immediately contact any of your affected customers whose vehicles are not on your VIN list but are identified in OASIS. Give the customer a copy of the Owner Notification Letter (when available) and schedule a service date.
- Correct other affected vehicles identified in OASIS which are brought to your dealership.
- Dealers are to prioritize repairs of customer vehicles over repairs of new and used vehicle inventory.

STOCK VEHICLES

- Correct all affected units in your new vehicle inventory before delivery.
- Use OASIS to identify any affected vehicles in your used vehicle inventory.

DEALER-OPERATED RENTAL VEHICLES

The Fixing America's Surface Transportation (FAST) Act law effective June 2016 prohibits a rental company from selling, renting, or leasing vehicles subject to a safety or compliance recall. Please consult your legal counsel for legal advice.

BRANDED / SALVAGED TITLE VEHICLES

Affected branded / salvaged title vehicles are eligible for this recall.

Safety Recall 23S48 – *Supplement #1***OWNER REFUNDS**

- **This Safety Recall must still be performed, even if the owner has paid for a previous repair. Claiming a refund will not close the recall on the vehicle.**
- Ford Motor Company is offering a refund for owner-paid repairs covered by this recall if the repair was performed before the date indicated in the reimbursement plan, which is posted with this bulletin. Owners are directed to seek reimbursement through authorized dealers or, at their option, directly through Ford Motor Company at PO Box 6251, Dearborn, MI 48121-6251.
- Dealers are also pre-approved to refund owner-paid emergency repairs that were performed away from an authorized servicing dealer after the end date specified in the reimbursement plan. Non-covered repairs, or those judged by Ford to be excessive, will not be reimbursed.
- Refunds will only be provided for the cost associated with *rear view camera replacement due to a blue or black image on the SYNC screen.*

RENTAL VEHICLES

Rental vehicles are not approved for this program.

FORD PICK-UP & DELIVERY

- Dealers participating in the Remote Experience Program:
 - Refer to EFC16393, Announcing the 2025 Remote Experience Program for additional details.
- Dealers NOT participating in the 2025 Remote Experience Program:
 - Dealers may claim one-half labor hour per repair for vehicle Pick-Up & Delivery services.
 - Dealers must retain a Vehicle Pick-Up & Delivery Record with the repair order documentation.

LINCOLN PICK-UP & DELIVERY

- Owners of Lincoln vehicles within a 4 year / 50,000-mile warranty have the option of requesting Pick-Up & Delivery service, from their dealership. For details, reference EFC15921, 2025 Lincoln Pick-Up & Delivery Program Announcement.
- For Lincoln vehicles outside of 4 years / 50,000-mile warranty, refer to refer to EFC16393, Announcing the 2025 Remote Experience Program.
- Dealers NOT participating in the 2025 Remote Experience Program:
 - For Lincoln vehicles outside of 4 years / 50,000-mile warranty, see labor claiming table below.

Safety Recall 23S48 – **Supplement #1**

ADDITIONAL REPAIR (LABOR TIME AND/OR PARTS)

Additional repairs identified as necessary to complete the FSA should be managed as follows:

- For related damage and access time requirements, refer to the Warranty and Policy Manual / Section 6 – Ford & Lincoln Program Policies / General Information & Special Circumstances for FSAs / Related Damage.
- **For vehicles within new vehicle bumper-to-bumper warranty coverage, no SSSC approval is required**, although related damage must be on a separate repair line with the “Related Damage” radio button checked.
 - Ford vehicles – 3 years or 36,000 miles
 - Lincoln vehicles – 4 years or 50,000 miles
- **For vehicles outside new vehicle bumper-to-bumper warranty coverage:**
 - Submit an Approval Request to the SSSC Web Contact Site before completing the repair.

Safety Recall 23S48 – **Supplement #1****New!** **CLAIMS PREPARATION AND SUBMISSION**

- **Technician Competency Requirement:** *The STST Competency 10 certification requirement in the U.S. market only will be enforced starting with repair orders opened on or after August 31, 2024. FSA repairs will reject, and the claim will not be paid if the repairing technician is not certified in STST Competency 10 FSA. See EFC15936 for more details.*
- **Claim Entry:** Enter claims using Dealer Management System (DMS) or One Warranty Solution (OWS) online.
 - When entering claims, select claim type 31: Field Service Action. The FSA number (**23S48**) is the subcode.
 - For additional claims preparation and submission information, refer to the Recall and Customer Satisfaction Program (CSP) Repairs in the OWS User Guide.
- **Related Damage/Additional labor and/or parts:** Must be claimed as Related Damage on a separate repair line from the FSA with the same claim type and subcode as described in Claim Entry above.

IMPORTANT: Click the Related Damage Indicator radio button.
- **Refunds:** Submit refunds on a separate repair line.
 - Program Code: 23S48 - Misc. Expense: ADMIN
 - Misc. Expense: REFUND - Misc. Expense: 0.2 Hrs.
 - Multiple refunds should be submitted on one repair line and the invoice details for each repair should be detailed in the comments section of the claim.
- **Ford Pick-Up & Delivery:**
 - *Dealers participating in the Remote Experience Program –*
 - *Refer to EFC16393, Announcing the 2025 Remote Experience Program for additional details.*
 - *Dealers NOT participating in the 2025 Remote Experience Program –*
 - *Dealers may claim one-half labor hour per repair for vehicle Pick-Up & Delivery services.*
 - *Dealers must retain a Vehicle Pick-Up & Delivery Record with the repair order documentation.*
- **Lincoln Pick-Up & Delivery:** *Claims for Lincoln Pick-Up & Delivery should be submitted on a separate line from the FSA. Refer to EFC15921, 2025 Lincoln Pick-Up & Delivery Program Announcement for details.*
 - *For Lincoln vehicles outside of 4 years / 50,000-mile warranty, refer to refer to EFC16393, Announcing the 2025 Remote Experience Program*
 - *Dealers NOT participating in the 2025 Remote Experience Program*
 - *For Lincoln vehicles outside of 4 years / 50,000-mile warranty, see labor claiming table below.*

Safety Recall 23S48 – **Supplement #1**

LABOR ALLOWANCES

Description	Labor Operation	Labor Time
Aviator – Install electrical tape and edge biter, replace rear view camera, and perform camera alignment.	23S48B	1.1 Hours
Bronco - Replace rear view camera and perform camera alignment.	23S48C	0.9 Hours
Navigator - Replace rear view camera and perform camera alignment.	23S48D	1.2 Hours
Transit - High Mount WITHOUT 360 camera - Replace rear view camera and perform camera Initialization.	23S48E	1.2 Hours
Transit (Mid/High Roof) High Mount with 360 Camera - Replace rear view camera, reprogram IPMB and perform camera alignment.	23S48F	2.1 Hours
Transit - Rear Door Mounted Rear View Camera - Replace rear view camera and perform camera Initialization.	23S48G	0.6 Hours
Transit (Low Roof) with 360 Camera - Replace rear view camera, reprogram IPMB and perform camera alignment.	23S48H	1.4 Hours
Lincoln Vehicle Pick-Up & Delivery Allowance: <u>Only</u> vehicles <u>outside</u> of Lincoln Pick-Up & Delivery contract coverage of 4 years/50,000 miles . NOTE: This allowance is for dealer-performed vehicle Pick-Up & Delivery for dealership repairs only. Can only be claimed once, regardless of outstanding FSAs repaired.	23S48LL	0.5 Hours
Ford Vehicle Pick-Up & Delivery Allowance: This allowance is only for <u>non-eligible</u> 2023 Remote Experience Program Dealers. NOTE: This allowance is for dealer-performed vehicle Pick-Up & Delivery for dealership repairs only. Can only be claimed once, regardless of outstanding FSAs repaired.	23S48PP	0.5 Hours

New! PARTS REQUIREMENTS / ORDERING INFORMATION

Restricted Part Ordering:

To place an order for a **2022-2023 Bronco Rear View Camera** submit an Enhanced Order Entry (formerly Special Parts Order Process) order in the DOW system. **SSSC contact is not required to order K-Coded parts on this program.** More information can be found in EFC 15482.

Labor Allowances and Parts Ordering Information

Page 2 of 3

Safety Recall 23S48 – *Supplement #1*

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
<i>Part number will be provided at a later date.</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2022-2023 Model Year Bronco – Rear View Camera</i>

Dealers will be notified via a DOES II communication if circumstances warrant a change in part supply strategy and when open ordering resumes.

Order the parts below through normal order processing channels:

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
LC5Z-19G490-D	1	1	1	Aviator – Rear View Camera
M2DZ-19G490-E	1	1	1	2021 Model Year Bronco – Rear View Camera
JL7Z-19G490-F	1	1	1	Navigator – Rear View Camera
NK4Z-19G490-G	1	1	1	Transit – Rear View Camera (w/360 View – All Roof Heights)
NK4Z-19G490-H	1	1	1	Transit – Rear View Camera (WITHOUT 360 View - Low Roof)
NK4Z-19G490-K	1	1	1	Transit – Rear View Camera (WITHOUT 360 View - High/Medium Roof)
3M5Z-14A163-A	1	1	1	Aviator - Edge Biter Zip Tie
W716507-S300	As needed	As needed	4	Transit Applique clip

To guarantee the shortest delivery time, an emergency order for parts must be placed.

DEALER PRICE

For the latest prices, refer to DOES II.

Safety Recall 23S48 – *Supplement #1*

PARTS RETENTION, RETURN, & SCRAPPING

Follow the provisions of the Warranty and Policy Manual, Section 1 - WARRANTY PARTS RETENTION AND RETURN POLICIES. If a replaced part receives a scrap disposition, the part must be scrapped by all applicable local, state, and federal environmental protection and hazardous material regulations. Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall.

EXCESS STOCK RETURN

The excess stock returned for credit must have been purchased from Ford Customer Service Division by Policy Procedure Bulletin 4000.

REPLACED FSA PARTS INSPECTION AND SIGN OFF

Effective March 1st, 2021, all parts replaced as part of an FSA repair with a repair order open date of March 1st, 2021, or later must be inspected and signed off on the repair order by a member of your dealer fixed operations management team or an employee of the task has been delegated to. If the task is to be delegated to a non-management employee, the employee needs to be someone other than the technician who completed the repair and needs to understand the importance of completing this task consistently and accurately.

- All parts replaced as part of an FSA repair should be returned to the parts department following the Warranty Parts Retention and Return Policies.
- Inspect the replaced parts to verify the FSA repair was completed.
- If the FSA repair is found to be complete, the designated employee signs the repair order line or parts return stamp area (electronic or hand signed) for the FSA repair indicating the parts were inspected and validated to have been replaced.
- After the parts have been inspected, they should be handled based on the guidance in the parts status report in the Online Warranty System (Hold, Return, CORE, Scrap, etc.). Please visit FMCDEALER > PARTS & SERVICE > WARRANTY ADMINISTRATION & WARRANTY PARTS RETURN for the latest [Immediate Scrap List](#) information.
- This process is subject to review during warranty audits for FSA repairs with a repair order open date of March 1st, 2021, or later. Any eligible FSA claims requiring parts replacement found not to have been inspected and signed off during a warranty audit will be subject to chargeback and consideration for enrollment into the Dealer Incomplete Recall Repair Process.

Note: Other approvals (electronic or handwritten) for add-on repair lines, dealer-owned vehicle repairs, and repeat repairs do not qualify as FSA parts inspection approvals. The post-repair FSA parts inspection process (electronic or handwritten) is independent of other warranty approval requirements. The approval by the designated employee implies that the FSA parts were found to be replaced and must be able to be identified on the Repair Order. If multiple FSAs require approval on a single Repair Order, each applicable occurrence will require individual post-repair approval by the designated employee.

CERTAIN 2020-2024 MODEL YEAR MULTIPLE VEHICLE LINES EQUIPPED WITH 360 DEGREE CAMERAS – INOPERATIVE REAR / 360 DEGREE CAMERA WITH A BLUE OR BLACK SCREEN

NEW! SERVICE PROCEDURE

IMPORTANT! The Service Technician Specialty Training (STST) Competency 10 certification requirement in the U.S. market only will be enforced starting with repair orders opened on or after August 31, 2024. Field Service Action (FSA) repairs will reject and the claim will not be paid if the repairing technician is not certified in STST Competency 10 FSA. See Electronic Field Communication (EFC)15936 for more details.

- NOTE: Handle the coaxial cable and wire harness with care to avoid damage.
- NOTE: Verify, with your parts department, that the part number being installed is the latest part number released by Ford for this application.

Table of Contents

Aviator.....	Page 2
Bronco.....	Page 6
Navigator.....	Page 7
Transit - Rear Door Mounted Rear View Camera.....	Page 8
- Roof Mounted Rear View Camera.....	Page 12



Aviator Vehicles

1. Remove the Reversing Lamp. Follow the Workshop Manual (WSM) procedures in Section 417-01.
2. Disconnect the rear view camera electrical connector. See Figure 1.

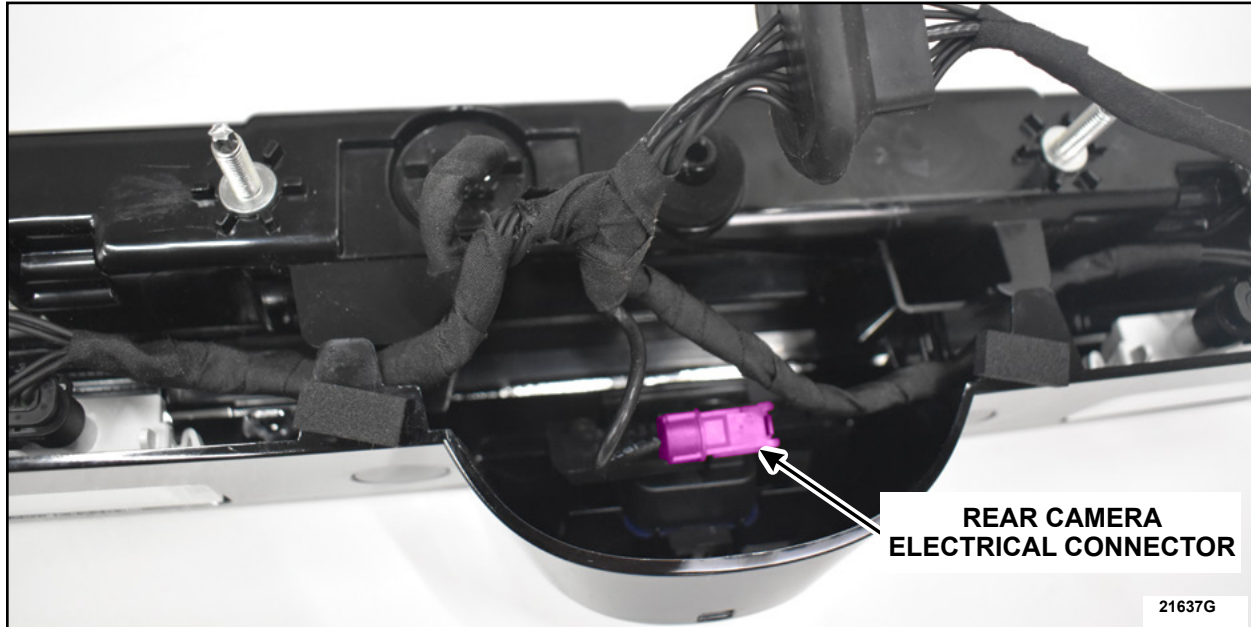


FIGURE 1

3. Cut open the tape and isolate the rear camera electrical connector wire from the taped up bundle. See Figure 2.

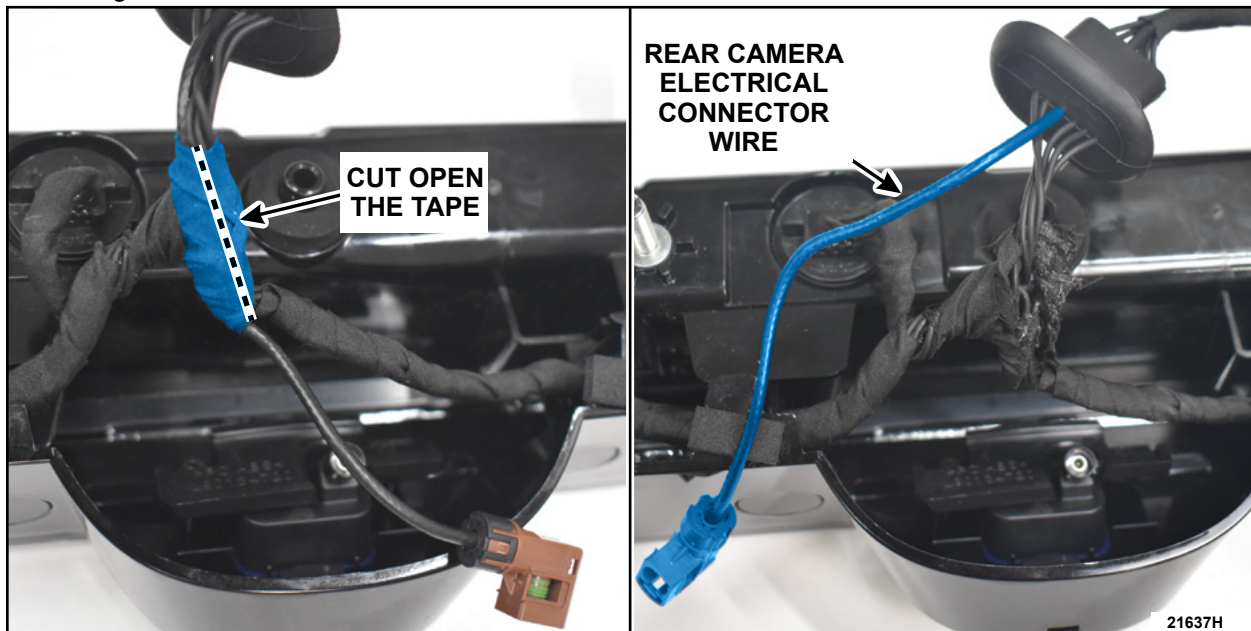


FIGURE 2



4. Wrap up the exposed wire harness using electrical tape keeping the rear camera wiring isolated.
See Figure 3.

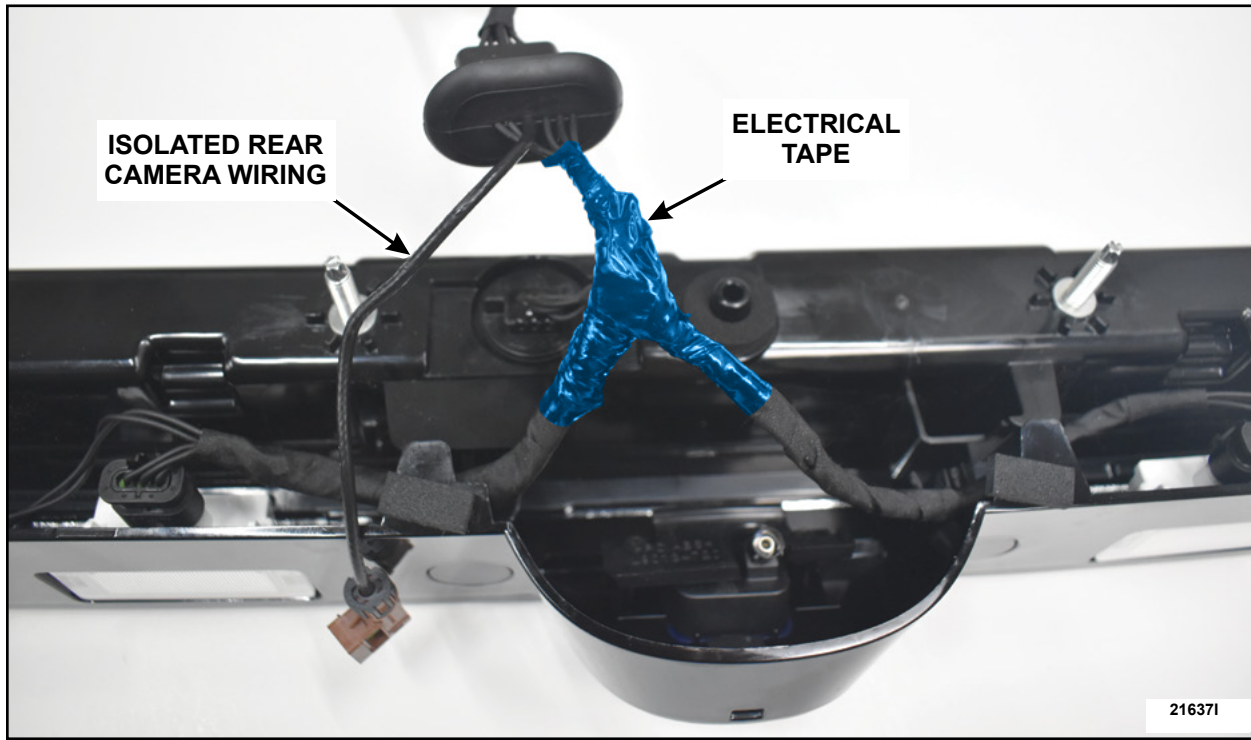


FIGURE 3

5. Measure 2 inch (50.8 mm) from the back of the rear camera electrical connector. Apply wraps of electrical tape and measure using a caliper until the thickness is 4.0 mm (0.157 in) or greater.
See Figure 4.

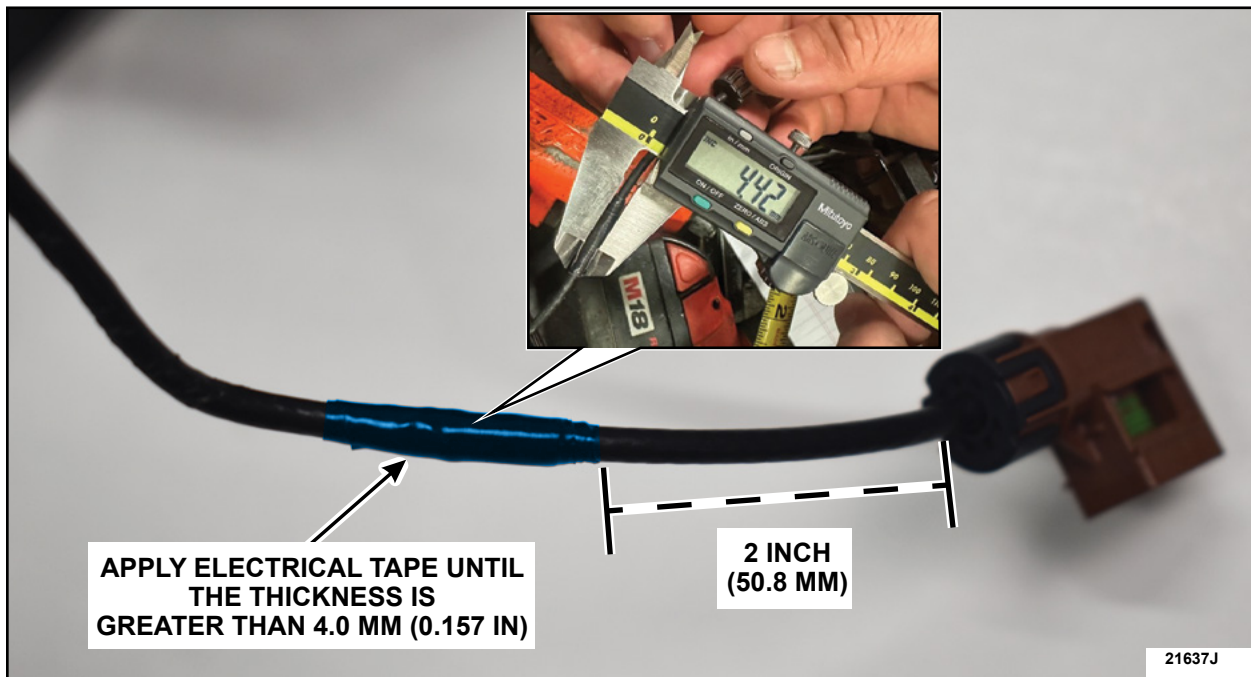


FIGURE 4



6. Measure 2.25 inch (57 mm) from the back of the rear camera electrical connector and install the edge biter zip tie. Trim any excess length of zip tie. See Figure 5.

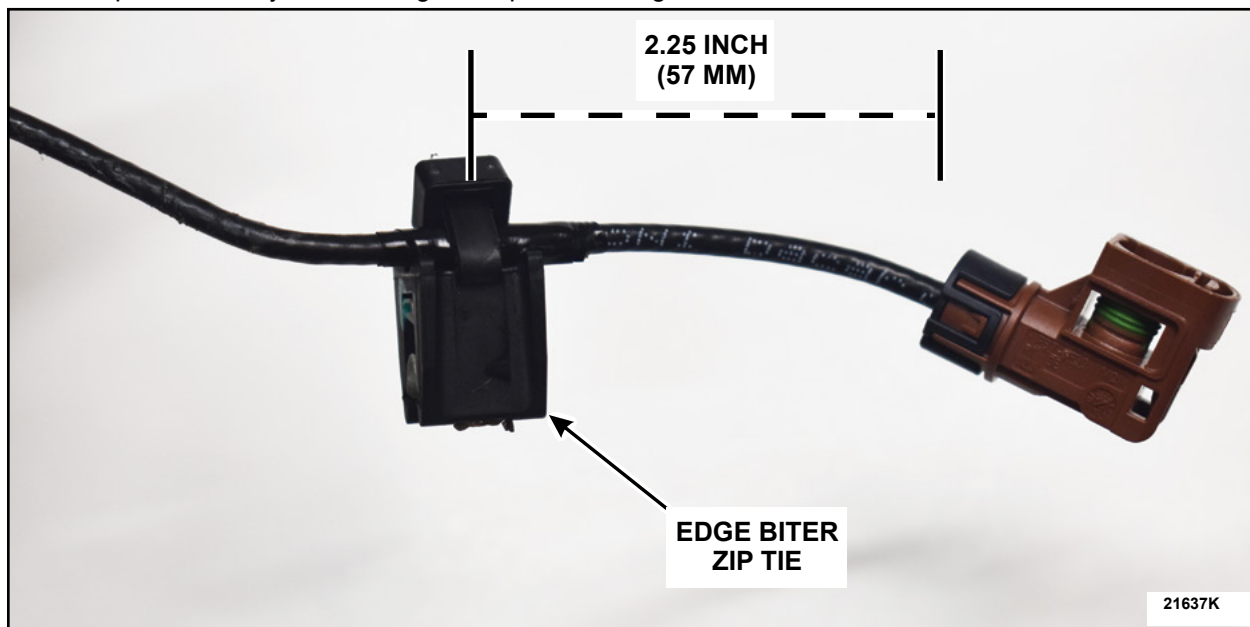


FIGURE 5

7. Secure the edge biter zip tie on the reversing lamp tab at a 45° angle. See Figure 6.

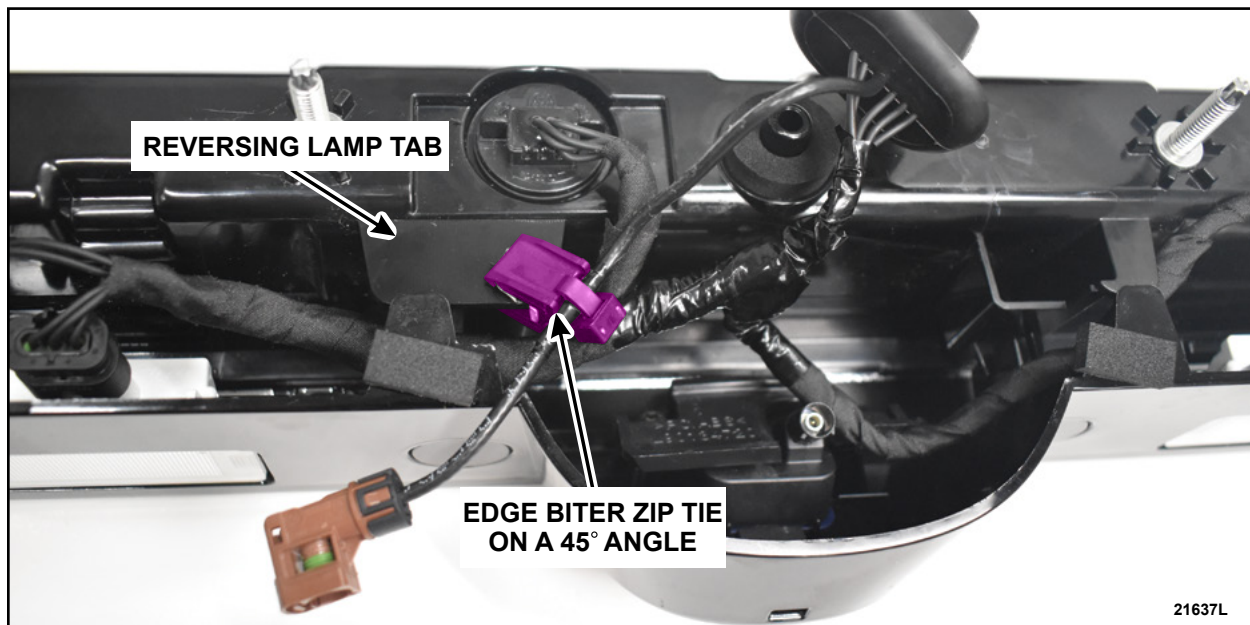


FIGURE 6



8. Remove the rear camera. Follow the WSM procedures in Section 413-13B.

9. Write down and include the new camera manufacture date and serial number onto the repair order. The new camera manufacture date serial number should also be included in the warranty claim submission in the technician comments section. See Figure 7.

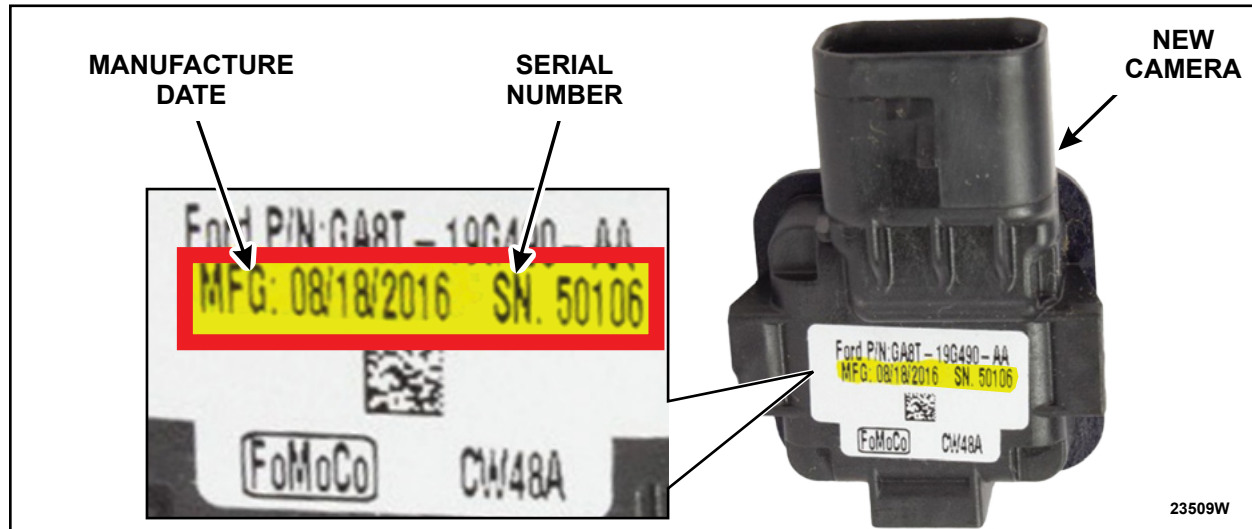


FIGURE 7

10. Install the new rear camera. Follow the WSM procedures in Section 413-13B. This completes the FSA.

IMPORTANT NOTE: Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall. Unless a part is requested to be returned to Ford, all parts replaced under this FSA must be scrapped in accordance with all applicable local, state and federal environmental protection and hazardous material regulations. Refer to the Parts Retention, Return, & Scrapping section of the FSA dealer bulletin for further information.



Bronco Vehicles

1. Remove the rear camera. Follow the WSM procedures in Section 413-13B.
2. Write down and include the new camera manufacture date and serial number onto the repair order. The new camera manufacture date serial number should also be included in the warranty claim submission in the technician comments section. See Figure 8.

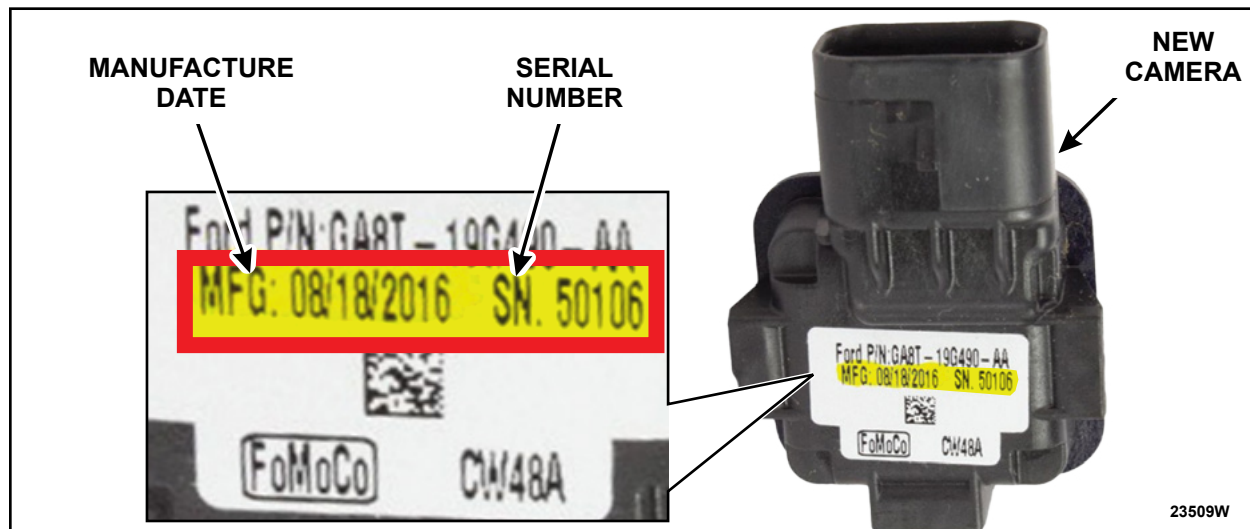


FIGURE 8

3. Install the new rear camera. Follow the WSM procedures in Section 413-13B. This completes the FSA.

IMPORTANT NOTE: Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall. Unless a part is requested to be returned to Ford, all parts replaced under this FSA must be scrapped in accordance with all applicable local, state and federal environmental protection and hazardous material regulations. Refer to the Parts Retention, Return, & Scrapping section of the FSA dealer bulletin for further information.



Navigator Vehicles

1. Remove the rear camera. Follow the WSM procedures in Section 413-13B.
2. Write down and include the new camera manufacture date and serial number onto the repair order. The new camera manufacture date serial number should also be included in the warranty claim submission in the technician comments section. See Figure 9.

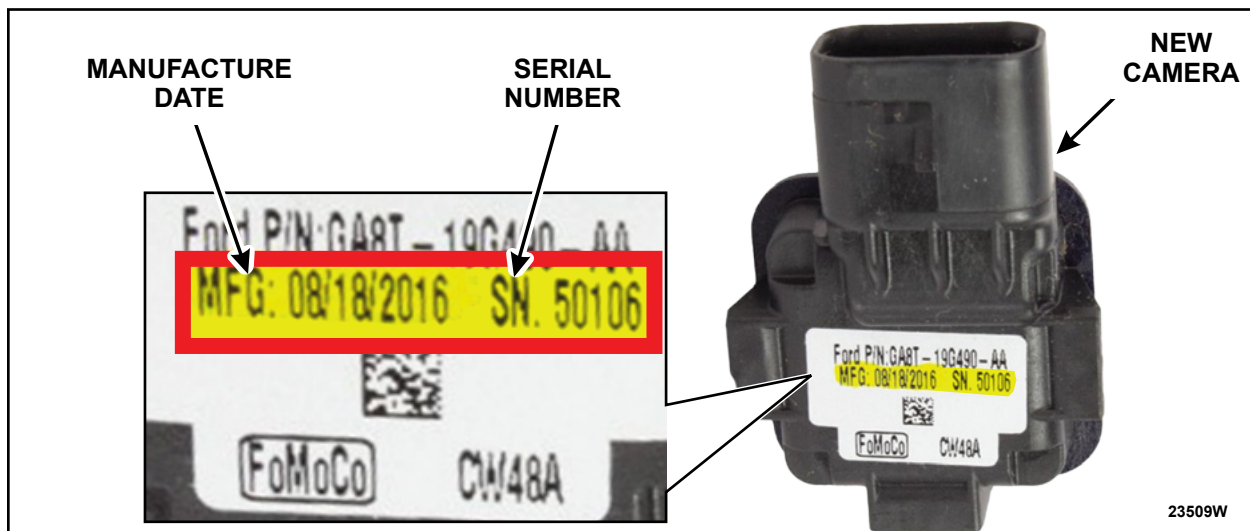


FIGURE 9

3. Install the new rear camera. Follow the WSM procedures in Section 413-13B. This completes the FSA.

IMPORTANT NOTE: Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall. Unless a part is requested to be returned to Ford, all parts replaced under this FSA must be scrapped in accordance with all applicable local, state and federal environmental protection and hazardous material regulations. Refer to the Parts Retention, Return, & Scrapping section of the FSA dealer bulletin for further information.



Transit Vehicles - Rear Door Mounted Rear View Camera

1. Remove and discard the rear camera. Follow the WSM procedures in Section 413-13C.
2. *Write down and include the new camera manufacture date and serial number onto the repair order. The new camera manufacture date serial number should also be included in the warranty claim submission in the technician comments section. See Figure 10.*

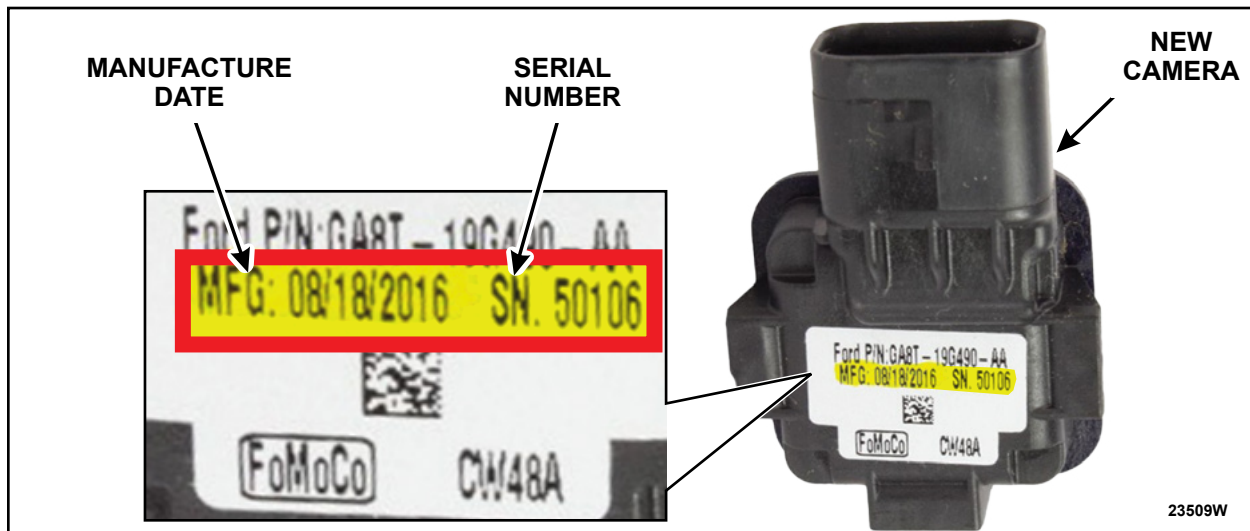


FIGURE 10



3. Install the *new* rear view camera. See Figure 11.

- a. Install the rear view camera.
- b. Install the rear view camera bracket.
- c. Install the screw.
- d. Connect the rear view camera electrical connector.

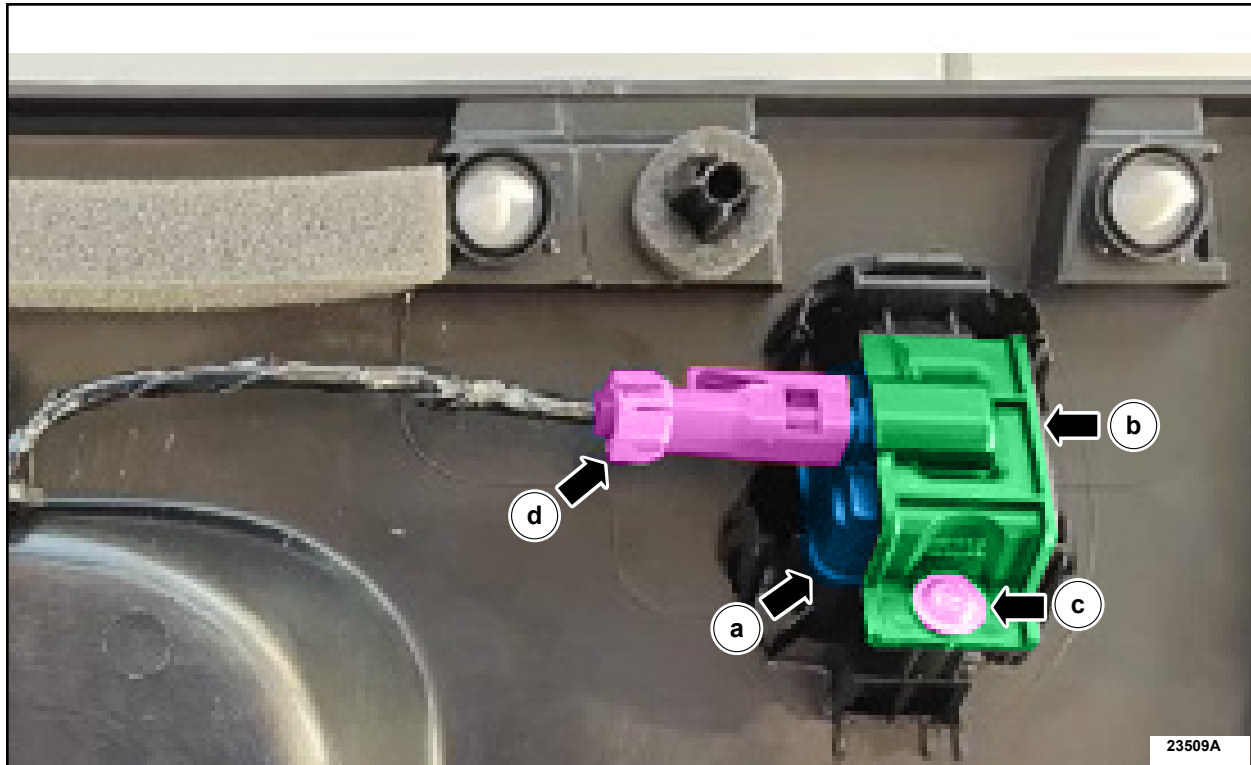


FIGURE 11



4. Install the license plate lamp bulbs and connect the rear camera electrical connector. See Figure 12.

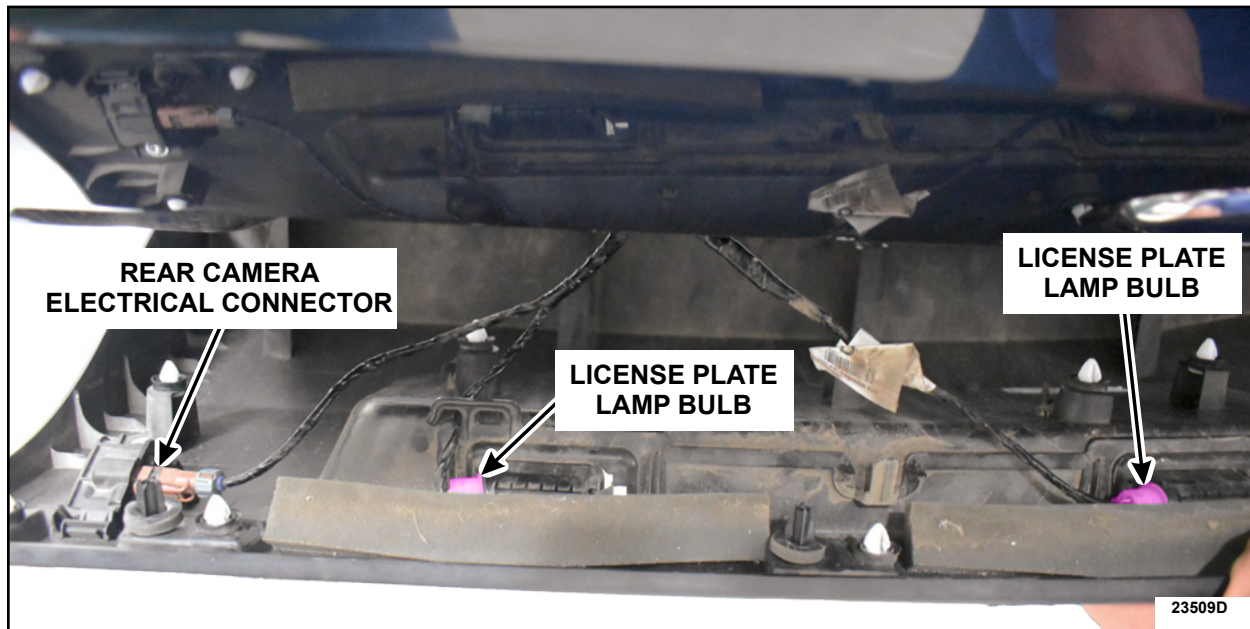


FIGURE 12

5. Route the rear camera harness into the strain relief hook. See Figure 13.

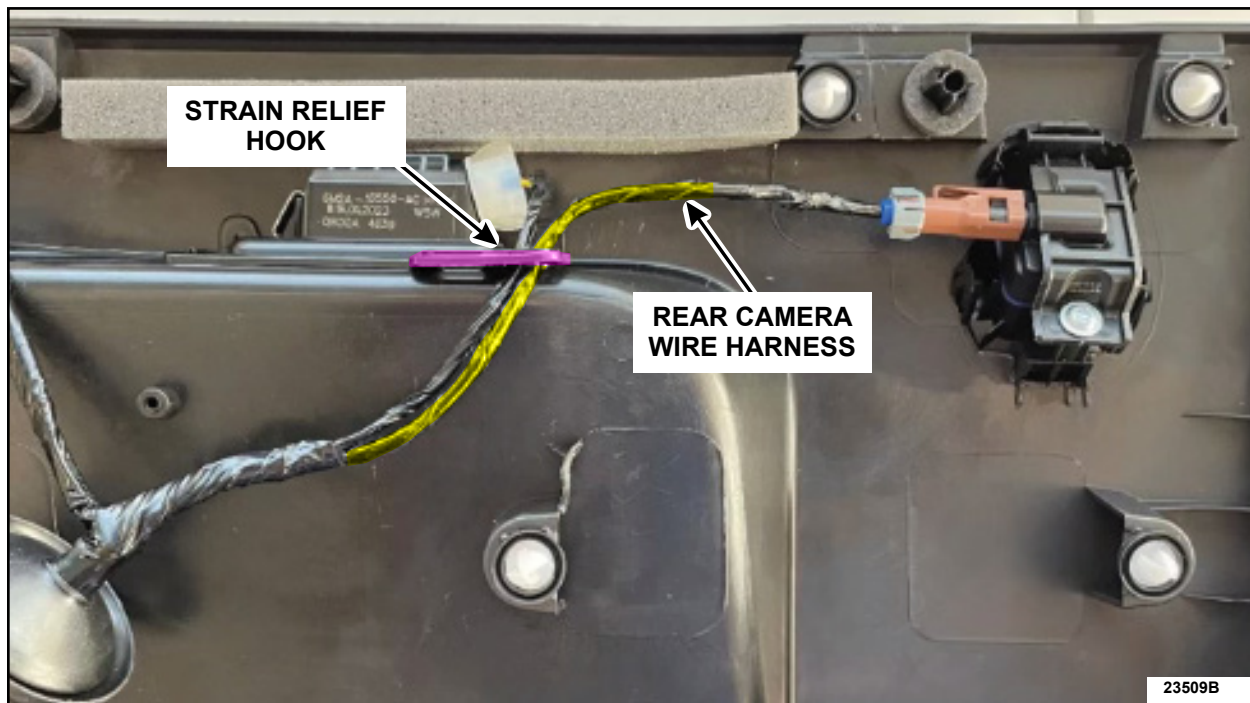


FIGURE 13



6. Install the Right Hand (RH) rear door moulding. See Figure 14.



FIGURE 14

7. Is the vehicle equipped with a 360° camera?

Yes - Proceed to **Module Programming** on Page 13.

No - Perform the parking aid camera initialization. Follow the WSM procedures in Section 413-13C. This completes the FSA.

IMPORTANT NOTE: Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall. Unless a part is requested to be returned to Ford, all parts replaced under this FSA must be scrapped in accordance with all applicable local, state and federal environmental protection and hazardous material regulations. Refer to the Parts Retention, Return, & Scrapping section of the FSA dealer bulletin for further information.



Transit Vehicles - Roof Mounted Rear View Camera

NOTE: **DO NOT** perform the 360° camera alignment or the parking aid camera initialization at this time.

1. Remove the rear camera. Follow the WSM procedures in Section 413-13C.
2. Write down and include the new camera manufacture date and serial number onto the repair order. The new camera manufacture date serial number should also be included in the warranty claim submission in the technician comments section. See Figure 15.

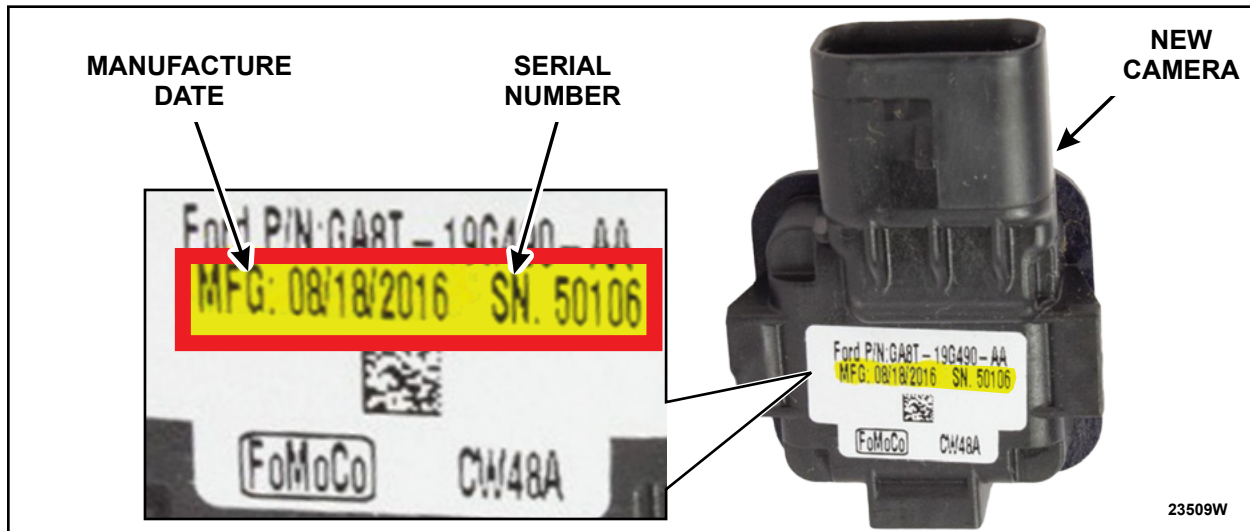


FIGURE 15

3. Install the new rear camera. Follow the WSM procedures in Section 413-13C.

4. Is the vehicle equipped with a 360° camera?

Yes - Proceed to **Module Programming** on Page 13.

No - Perform the parking aid camera initialization. Follow the WSM procedures in Section 413-13C. This completes the FSA.

IMPORTANT NOTE: Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall. Unless a part is requested to be returned to Ford, all parts replaced under this FSA must be scrapped in accordance with all applicable local, state and federal environmental protection and hazardous material regulations. Refer to the Parts Retention, Return, & Scrapping section of the FSA dealer bulletin for further information.



Module Programming

NOTE: Program appropriate vehicle modules before performing diagnostics and clear all Diagnostic Trouble Codes (DTCs) after programming. For DTCs generated after programming, follow normal diagnostic service procedures.

1. Connect a battery charger to the 12 Volt (V) battery.

- Use of a heavy-duty charger is recommended to maintain proper battery voltage during this procedure.

NOTE: Verify the negative cable of the charger is installed on a chassis or engine ground and not the 12V battery negative terminal to prevent the battery saver mode from activating on the vehicle.

NOTE: If the diagnostic software does not load or if the vehicle cannot be identified properly, make sure there is a good internet connection and the Vehicle Communication Module (VCM) is properly connected to the Data Link Connector (DLC).

2. Log into Ford Diagnostic and Repair System (FDRS).

NOTE: Vehicle information is automatically retrieved by the diagnostic software and a Network Test is run. Vehicle identification data appears on the screen when this is complete.

3. Click **Read VIN from Vehicle** or manually enter the Vehicle Identification Number (VIN).

NOTE: Available modules are shown on the left hand (LH) side of the screen, and available procedures are listed on the right hand (RH) side of the screen. Modules that are communicating are highlighted in green.

4. Select Toolbox tab.

5. From the list on the LH side of the screen, select **IPMB - Image Processing Module B (IPMB)**.

6. From the list on the RH side of the screen, select **IPMB Software Update**.

7. Click **RUN**. Follow all on-screen instructions carefully.

8. Perform the parking aid camera initialization. Follow the WSM procedures in Section 413-13C.

9. Carry out the 360° camera alignment. Follow the WSM procedures in Section 413-13C.

10. From the list on the RH side of the screen, select **Self-Test** and click **RUN**.

11. Click the **Run Selected Tests** button in the lower right.



11. Click the **Clear & Retest** button at the top of the screen to clear DTCs in all modules.
12. Disconnect the battery charger from the 12V battery once the programming has completed.

Important Information for Module Programming

NOTE: When programming a module, use the following basic checks to ensure programming completes without errors.

- Make sure the 12V battery is fully charged before carrying out the programming steps and connect FDRS/scan tool to a power source.

NOTE: A good internet connection is necessary to identify the vehicle and to load the diagnostic software.

- Inspect the Vehicle Communication Module II (VCM II)/Vehicle Communication Module III (VCM III) or the Vehicle Communication and Measurement Module (VCMM) and the cables for any damage. Make sure scan tool connections are not interrupted during programming.
- A hardwired connection is strongly recommended.
- Turn off all unnecessary accessories (radio, heated/cooled seats, headlamps, interior lamps, HVAC system, etc.) and close doors.
- Turn the accessories back on after programming has completed.
- Disconnect/depower any aftermarket accessories (remote start, alarm, power inverter, CB radio, etc.).
- Follow all scan tool on-screen instructions carefully.
- Disable FDRS/scan tool sleep mode, screensaver, hibernation modes.
- Create all sessions key on engine off (KOEO). Starting the vehicle before creating a session will cause errors within the programming inhale process.

Recovering a module when programming has resulted in a blank module

1. Disconnect the VCM II/VCM III or the VCMM from the data link connector (DLC) and your PC.
2. After ten seconds, reconnect the VCMII/VCMIII or the VCMM to the DLC and the PC. Launch FDRS. The VCMII/VCMIII or the VCMM icon should turn green in the bottom right corner of the screen. If it does not, troubleshoot the FDRS to VCM connection.
3. If you are using the same FDRS as the initial programming attempt, select the appropriate VIN from the Vehicle Identification menu. If you are using a different FDRS, select "Read VIN from Vehicle" and proceed through the Network Test.
4. In the Toolbox menu, navigate to the failed module and Download/Run Programmable Module Installation (PMI). Follow the on-screen prompts. When asked if the original module is installed, select "No" and continue through the installation application.
5. Once programming has completed, a screen may list additional steps required to complete the programming process. Make sure all applicable steps are followed in order.



Ford Motor Company
Recall Reimbursement Plan for 23S48 Supplement #1

Ford and Lincoln dealers are in the best position to quickly and efficiently process reimbursement requests. However, federal legislation requires all motor vehicle manufacturers to establish processes through which customers may seek recall reimbursement directly from the manufacturer or the dealers.

Regarding the specific reimbursement plan for Recall # 23S48 Supplement #1, owners who have paid for service to remedy the defect or noncompliance must have had that service performed before June 23, 2027. After this date, if repairs related to this recall are performed by a non-Ford repair facility in an emergency, customers must submit any refund requests through their dealership. As required by this federal regulation, Ford Motor Company submitted the details of its latest General Recall Reimbursement Plan in a letter to the National Highway Traffic Safety Administration (NHTSA) in May 2021. The following is the text of that letter and the Plan:

General Recall Reimbursement Plan
(As submitted to the NHTSA)

Pursuant to the requirements set forth in 49 CFR Part 573 and Part 577 of the Code of Federal Regulations, Ford Motor Company (Ford) is submitting required information pertaining to our general reimbursement plan for the cost of remedies paid for by vehicle owners before they are notified of a related safety recall.

Set forth below is Ford's general plan to reimburse owners and purchasers for costs incurred for remedies in advance of notification of potential safety-related defects or noncompliances pursuant to Part 573.6 (c)(8)(i). This plan has not changed since our May 5, 2021 submission.

Reimbursement Notification

Ford's notice to a vehicle owner in accordance with 49 CFR Part 577 will indicate that Ford is offering a refund if the owner paid to have service to remedy the defect or noncompliance prior to a specified ending date. In accordance with Part 573.13 (c)(2), this ending date will be defined as a minimum of ten calendar days after the date on which Ford mailed the last of its Part 577 notifications to owners and will be indicated in the specific reimbursement plan available to owners for an individual recall. This notice will direct owners to seek eligible reimbursement through authorized dealers or, at their option, directly through Ford at the following address:

Ford Motor Company
P.O. Box 6251
Dearborn, MI 48121-6251

Ford notes that this rule allows for the identification of a beginning date for reimbursement eligibility. Under the rule, an owner who paid to remedy the defect or noncompliance prior to the identified beginning date would not be eligible for reimbursement. Ford generally has not established such a beginning date for reimbursement eligibility and does not presently anticipate changing this general policy. However, in any case where Ford determines a beginning date is appropriate, Ford will indicate that date in the owner notice. As permitted by 577.11(e), Ford may not include a reimbursement notification when all vehicles are well within the warranty period, subject to approval by the Agency.

Costs to be Reimbursed

For vehicles, reimbursement will not be less than the lesser of:

- The amount paid by the owner for the remedy that specifically addressed and was reasonably necessary to correct the defect or noncompliance that is the subject of the recall, or
- The cost of parts for the remedy (to be no more than the manufacturer's list retail price for authorized part(s), plus associated labor at local labor rates, miscellaneous fees (such as disposal of waste) and taxes.

For replacement equipment, reimbursement will be the amount paid by the owner for the replacement item (limited by the amount of the retail list price of the defective or noncompliant item that was replaced, plus taxes, where the brand or model purchased by the owner was different than the brand or model that was the subject of the recall). If the item of motor vehicle equipment was repaired, the reimbursement provisions identified above for vehicles will apply.

Ford notes that costs incurred by the owner within the period during which Ford's original or extended warranty would have provided for a free repair of the problem will not be eligible for reimbursement, as provided by Part 573.13 (d)(1).

Entities Authorized to Provide Reimbursement

Ford will continue to use authorized dealers to reimburse owners under the specific reimbursement plans for a particular recall and will encourage owners to pursue requests for reimbursement directly through dealers to expedite reimbursement. Ford will also provide a mailing address to which customers can, at their option, send requests for reimbursement directly to Ford, as previously noted. Requests for reimbursement sent directly to Ford may take up to 60 days to process. Whether the owner chooses to pursue reimbursement requests through a dealer or directly through Ford, the owner will be directed to submit the required documentation, upon which reimbursement eligibility will be determined.

Required Documentation

The reimbursement determination will depend upon the information provided by the customer. Consistent with Part 573.13 (d)(4) the following information must be submitted:

- Claimant name and address
- Vehicle make, model and model year
- Vehicle identification number (VIN) and, for replacement equipment, a description of such equipment or, for tires, the model, size and TIN (DOT code)
- Identification of the recall number (either the Ford recall number or the NHTSA recall number)
- Identification of the owner of the recalled vehicle at the time that the pre-notification remedy was obtained
- An original receipt for the pre-notification remedy that includes a breakdown of the amount for parts, labor, other costs and taxes, including costs for the replacement item. Where the receipt covers work other than to address the recall or noncompliance, Ford may require the claimant to separately identify costs that are eligible for reimbursement.
- If the remedy was obtained during the warranty repair did not correct the problem related to the recall

Failure to submit all the above information may result in denial of the reimbursement request.

Additional Information

The Part 577 required owner notice will provide a toll-free telephone number through which specific information about the reimbursement plan can be requested from Ford. This general reimbursement plan will be incorporated into notifications pursuant to Part 573.6 by reference. Information specific to an individual recall also may be incorporated into the Part 573.6 notification.