# Part 573 Safety Recall Report

or Company
023

# Manufacturer Information :

Manufacturer Name : Ford Motor Company Address : 330 Town Center Drive Suite 500 Dearborn MI 48126-2738 Company phone : 1-866-436-7332

# **Population :**

Number of potentially involved :931Estimated percentage with defect :1 %

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NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

23V-688

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## Vehicle Information :

LIGHT VEHICLES	ΞV		
ALL			
HYBRID ELECTRIC			
<ul> <li>Ford's team reviewed supplier process and maintenance records to determine the population of affected parts. Ford process is capable of tracing the electronic cabin coolant heater production to the vehicle in which the electronic cabin coolant heater is installed.</li> <li>The electronic cabin coolant heater in certain 2023 model year F-150 BEV vehicles may have been manufactured with a missing solder joint.</li> <li>These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford's toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.</li> <li>931 F-150 BEV vehicles are affected.</li> </ul>			
JUL 27, 2023 - AUG 30, 20	23		
Begin : NR	End: NR	☐ Not sequential	
Description of Noncompliance : Description of the Noncompliance : The electronic cabin coolant heater module may have been manufactured without performing the proper solder assembly operation for a low voltage connector to the printed circuit board assembly. A missing solder joint can result in intermittent or no cabin heat. The electronic cabin coolant heater is the source of heat for windshield defrosting and defogging.			
	LIGHT VEHICLES ALL HYBRID ELECTRIC Ford's team reviewed sup population of affected par coolant heater production is installed. The electronic cabin coola may have been manufactu These vehicles are not pro- this action to specific vehi line (1-866-436-7332) or specific information regar Information System (OAS 931 F-150 BEV vehicles ar JUL 27, 2023 - AUG 30, 20 Begin : NR	ALL HYBRID ELECTRIC Ford's team reviewed supplier process and maintenan population of affected parts. Ford process is capable of coolant heater production to the vehicle in which the disis installed. The electronic cabin coolant heater in certain 2023 mm may have been manufactured with a missing solder jon These vehicles are not produced in VIN order. Informating this action to specific vehicles can best be obtained by line (1-866-436-7332) or by contacting a local Ford or specific information regarding the vehicles from the F Information System (OASIS) database. 931 F-150 BEV vehicles are affected. JUL 27, 2023 - AUG 30, 2023 Begin: NR End: NR Ince : the The electronic cabin coolant heater module may have in manufactured without performing the proper sold low voltage connector to the printed circuit board	

- FMVSS 1: 103 Windshield defrosting and defogging systems
- FMVSS 2 : NR

Description of the Safety Risk : The lack of a functioning windshield defrosting and defogging system may

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Description of the Safety Risk :	decrease the driver's visibility under certain driving conditions, increasing the risk of a crash.
Description of the Cause :	The electronic cabin coolant heater modules were produced on a secondary, low volume production line at the supplier that did not have processes in place to prevent an improperly soldered electronic cabin coolant module from proceeding to the next assembly operation.
Identification of Any Warning that can Occur :	Customers may notice a lack of heat in the vehicle cabin when the heater is on.

Component Name 1 : High Voltage Coolant Heater Component Description : Electronic Cabin Coolant Heater Component Part Number : RL3H-18E64-BB

### **Supplier Identification :**

#### **Component Manufacturer**

Name :	Borg Warner
Address :	1100 Wright Street
	Cadillac Michigan 49601
Country :	United States

#### **Chronology** :

September - October 2023

On September 21, 2023, an issue pertaining to the electronic cabin coolant heater on certain 2023 model year Ford F-150 BEV vehicles was brought to Ford's Critical Concern Review Group (CCRG) for review. The issue was first identified at the vehicle assembly plant when plant personnel reported an F-150 BEV vehicle with a Diagnostic Trouble Code (DTC) indicating loss of communication with the electronic cabin coolant heater. The CCRG investigation determined that during the supplier's electronic cabin coolant heater manufacturing process, the solder assembly operation was not performed on one of the three low voltage connectors to the Printed Circuit Board Assembly (PCBA). Bench tests and vehicle drives were conducted during the investigation, and they showed that a missing solder joint can result in intermittent or no electronic cabin coolant heater function depending on the position of the non-soldered low voltage pin relative to the PCBA. Continued investigation determined that the potential for a missing solder joint was limited to parts produced on the supplier's secondary, low volume assembly line and is not present on the primary assembly line. The electronic cabin coolant heater is the source of heat in the 2023 model year F-150 BEV for both cabin

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heating and windshield clearing. Vehicles with an intermittently functional or non-functional electronic cabin coolant heater may not meet the requirements of Federal Motor Vehicle Safety Standard (FMVSS) No. 103 Windshield defrosting and defogging systems.

As of October 4, 2023, Ford is not aware of any warranty claims, field reports or customer complaints related to this issue.

On October 6, 2023, Ford's Field Review Committee reviewed the concern and approved a field action. Ford is not aware of any reports of accident or injury related to this condition.

### **Description of Remedy :**

Description of Remedy Program :	Owners will be notified by mail and instructed to take their vehicle to a Ford or Lincoln dealer to have the electronic cabin coolant heater replaced. There will be no charge for this service. Ford provided the general reimbursement plan for the cost of remedies paid for by vehicle owners prior to notification of a safety recall in May 2023. The ending date for reimbursement eligibility is estimated to be February 23, 2024. Ford will forward a copy of the notification letters to dealers to the agency when available.
<b>v 1</b>	The remedy electronic cabin coolant heaters (Part Number RL3H-18E64- BB) are manufactured with proper solder joints.
dentify How/When Recall Condition was Corrected in Production :	1 1

### **Recall Schedule :**

Description of Recall Schedule :	Notification to dealers is expected to occur on October 16, 2023. Mailing of owner notification letters is expected to begin November 6, 2023 and
	is expected to be completed by November 10, 2023.
Planned Dealer Notification Date :	OCT 16, 2023 - OCT 16, 2023
Planned Owner Notification Date :	NOV 06, 2023 <sup>-</sup> NOV 10, 2023

\* NR - Not Reported

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