

Part 573 Safety Recall Report

22E-090

Manufacturer Name : Carrier Corporation

Submission Date : JAN 13, 2023

NHTSA Recall No. : 22E-090

Manufacturer Recall No. : R-968



Manufacturer Information :

Manufacturer Name : Carrier Corporation

Address : P.O. Box 4805

Carrier Parkway, TR-20 Syracuse NY
13221

Company phone : 315-432-3572

Population :

Number of potentially involved : 7,299

Estimated percentage with defect : 95 %

Equipment Information :

Brand / Trade 1 : Carrier Transicold

Model : Supra S Series (S6, S7, S8, S9, S10)

Part No. : 22-61124

Size : N/A

Function : Refrigeration

Descriptive Information : The Supra S6, S7, S8, S9 and S10 models of diesel truck refrigeration unit (together, the "affected TRU") are sold by Carrier Corporation's Carrier Transicold Division ("Carrier") and are designed and used to maintain the temperature of frozen and/or chilled products during on-road truck transport. The affected TRUs come with a 12V wire harness to provide power for a fuel heater post-production add-on accessory.

Production Dates : JAN 01, 2016 - SEP 22, 2022

Description of Defect :

Description of the Defect : The 12-V wire harness of the affected TRUs contain live power and have been found to be exposed when not attached to the postproduction fuel heater accessory, with stripped wire ends and a missing protection heat shrink.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The exposed, live wires in the 12V wire harness in the affected TRUs could potentially ground or have intermittent connection with surrounding cut wires or other metal components, which could lead to electrical arcing and localized heat. Hot copper from the wire could ignite a flame which could propagate to components in the surrounding area and result in an increased risk of fire.

Description of the Cause : In the affected TRUs the wire harness is missing the heat shrink that protects

the stripped wire ends, either as a result of not being installed by the supplier or falling off after production.

Identification of Any Warning that can Occur : Visual inspection should clearly show the missing heat shrink in the area of concern on the wire harness.

Involved Components :

Component Name : 12-volt engine harness

Component Description : 12-volt engine harness (supplied by ECI) that provides power for a fuel heater add-on accessory

Component Part Number : 22-61124-01 (S6), 22-61124-00 (S7, S8), 22-61125-00 (S9), 22-61125-21 (S10)

Supplier Identification :

Component Manufacturer

Name : Electrical Components International

Address : 1 City Place Drive
Suite 450 St. Louis Missouri 63141

Country : United States

Chronology :

On August 16, 2022, Carrier received notification of a thermal incident involving a Supra S6 TRU in Aurora, CO. On September 14, 2022, a field inspection was conducted, with an independent third-party fire investigator, into potential causes of the thermal event. On September 20, 2022, a production line inspection showed that the affected TRU's wire harness was missing the heat shrinks, such that the exposed wires in the harness may come into contact with surrounding metal or other exposed wires. As a result, all shipments of affected TRUs were put on hold on September 22, 2022, and Carrier immediately began a careful analysis of the affected TRU's wire harness to assess the potential product safety risk. To date there has been only the one thermal event related to this issue, and no other field reports of arcing.

After much internal analysis and discussion with safety engineers, on October 20, 2022, Carrier determined that the issue presented a potential safety-related defect reportable to NHTSA under Part 573. That same business day, on October 20, 2022, Carrier filed this 573 Defect and Non-Compliance Report.

Description of Remedy :

Description of Remedy Program : Carrier will ask all end user customers to have their affected TRUs inspected by an authorized Carrier dealer. The dealer will, at no cost to end user customers, inspect and install the specified heat shrinks on the exposed wires, with an adhesive property to reduce the likelihood of the heat shrink falling off, within the affected TRU. Owners who seek reimbursement for the cost of a repair or remedy for this issue prior to Carrier's notification are encouraged to contact their respective Dealer to submit the claim; if needed, more information about the procedure for pre-notification reimbursement claims may be found in the Manufacturer Pre-Notification Reimbursement Plan associated with this recall. The Plan also includes an address to which claims may be mailed.

How Remedy Component Differs from Recalled Component : Carrier Transicold is modifying the affected TRUs in the field by cutting off the stripped portion of the wire, and adding the heat shrink that contains an adhesive property to reduce the likelihood of the heat shrink falling off within the affected TRU.

Identify How/When Recall Condition was Corrected in Production : All affected TRUs shipped on and after September 28, 2022, will have all of the wire ends cut off to remove the stripped and exposed ends, and replaced with new heat shrink with adhesive properties; and removal of 20AMP fuse F7 to ensure the wires are no longer live.

Recall Schedule :

Description of Recall Schedule : On or before December 19, 2022, Carrier plans to send notice of the updated inspection and field retrofit plan for affected TRUs via email to all authorized dealers located in the U.S., and plans to send notice of the updated inspection and field retrofit plan for affected TRUs via U.S. Mail to all known end user customers located in the U.S.

Planned Dealer Notification Date : DEC 24, 2022 - DEC 24, 2022

Planned Owner Notification Date : DEC 15, 2022 - DEC 21, 2022

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : NR

Address : NR

NR

Country : NR

Company Phone : NR

* NR - Not Reported