

# T440/T470/T800/W900 Starter Interrupt Circuit

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## Number

21KWB / 21V262 / 2021-223

## Supplier

Kenworth Truck Company

## Description

Recall 21KWB: T440/T470/T800/W900 Starter Interrupt Circuit

## Date

5/3/2021

## What's New

Safety Recall - The transmission and chassis harness may not have the starter interrupt connected properly, which enables the vehicle to start while the transmission is in drive or reverse gear. This is non-compliant with FMVSS 102 S3.1.3 / CVSS 102. The vehicle will be checked for correct operation of the starter interrupt and, if needed, the circuit will be connected correctly.

## Introduction

The transmission and chassis harness may not have the starter interrupt connected properly, which enables the vehicle to start while the transmission is in drive or reverse gear.

On affected vehicles, the vehicle may move without warning, which may result in a collision and injury to persons or property. These vehicles may fail to comply with FMVSS 102 S3.1.3 / CVSS 102.

## Situation

65 chassis (53 U.S. and 12 Canada) T440/470, T800, and W900 chassis model year 2022 built from 01/04/2021 through 03/04/2021 equipped with an Allison transmission.

## Warranty

There is no time or mileage limit for this recall. Kenworth will pay for parts at dealer net plus applicable mark-up and labor:

- 0.3 hours labor to confirm correct operation of the starter interrupt circuit. Use Quick Claim Code 21KWBA.
- 1.0 hour labor to confirm incorrect operation of the starter interrupt circuit, and then correctly connect and then test the circuit. Use Quick Claim Code 21KWBB.
  - Select the correct Front Chassis Harness in the Causal Part field.
- File a long claim for extraordinary circumstances (which must be explained).

## Take-Off Parts Disposition: N/A

| <b>PRWS CLAIM CODING</b> |             |  |               |
|--------------------------|-------------|--|---------------|
| Campaign Code:           | 21KWB       | Campaign Type  | Safety Recall |
| Claim Category:          | Truck       | Repair Type  | Proactive     |
| Customer Concern Code    | 226         | Causal Code  | A1            |
| Corrective Action Code   | 12          | Responsibility Code:   | Camp          |
| Failure Location         | 027-038-002 | Causal Part<br>Select the appropriate part number from the list. |               |

|               |     |          |  |
|---------------|-----|----------|--|
|               |     |          | <p>A92-1129-0030700 (most commonly used)</p> <p>A92-1129-0020700</p> <p>A92-1131-008</p> <p>A92-1131-009</p> <p>A92-1130-003</p> <p>A92-1078-0010700</p> <p>A92-1129-0130700</p> <p>A92-1078-0030700</p> <p>A92-1078-0050700</p> <p>A92-1129-0150700</p> <p>P92-5859-0010700</p> <p>A92-1131-012</p> |
| Supplier Code | N/A | SRT Code | <p><b>027-002</b><br/>                     1.0 hrs.<br/>                     Connect neutral start wiring from chassis harness to transmission harness. To be</p>  |

|  |  |  |   |
|--|--|--|---|
|  |  |  | used with TIB<br>21KWB only.<br>confirm correct<br>operation of the<br>starter interrupt<br>circuit<br><b>027-003</b><br>0.3 hrs.<br>Confirm correct<br>operation of the<br>starter interrupt<br>circuit per 21KWB. |
|--|--|--|---|

| CLAIM CODING      |   |                      |    |
|-------------------|---|----------------------|----|
| Failure Location: | 027-038-002   | Work Accomplished:   | 55 |
| Failure Type:     | 140   | Responsibility Code: | 02 |
| SRT Code:         | <b>027-002</b><br>1.0 hrs.<br>Connect neutral start wiring from chassis harness to transmission harness. To be used with TIB 21KWB only.<br><b>027-003</b><br>0.3 hrs.<br>Confirm correct operation of the starter interrupt circuit per 21KWB. | Claim Type:          | C  |

Procedure

**Please follow your dealership's safety procedures and precautions to ensure the vehicle can be safely repaired and maintained.**

If wiring diagrams are required to locate and identify the connectors, search for the following in WebECAT to identify the harness diagrams:

- Front Chassis Harness in WebEcat.
- Transmission wiring



**WARNING!**

Warning starter engagement should not be possible when shift selector is in drive or reverse. Starter engagement must only occur while the shift selector is in neutral.

If the starter engages or the engine starts, the vehicle may move and could result in equipment damage, severe injury, or death.

1. Ensure wheels are chocked and there is ample room in front of and behind the chassis in case the engine starts in gear.
2. Set the park brake.
3. Make sure service brake is applied.

**WARNING!**

To help avoid injury or property damage caused by sudden and unexpected vehicle movement do not start a Starter Interrupt Circuit test until you:

- Put the transmission in **N** (Neutral)...and
- Apply the parking brake and service brake... and
- Chock the vehicle wheels and take any other steps necessary to keep the vehicle from moving...and
- Warn personnel to keep clear of the vehicle and its path.

If the starter engages or the engine starts, the vehicle may move and could result in equipment damage, severe injury, or death.

**WARNING!**

Use an observer when checking engagement of the starter to make sure there is no one around the vehicle. You will be attempting to start the vehicle in gear during this procedure. You must ensure there is ample room to stop the vehicle if the engine starts. If the starter engages or the engine starts, the vehicle may move and could result in equipment damage, severe injury, or death.

4. Check to make sure the truck starts in neutral and make sure it fully builds air then turn off truck.
5. Attempt to engage the starter in drive or reverse:
  - a. Turn key to the on position and wait for the electrical system to "wake" up.
  - b. Place the transmission gear selector in drive.
  - c. While listening for the starter to engage, turn the key to the start position did the starter engage?
    - **If the starter engages**, STOP and continue to Step 6.
    - **If the starter does not engage**, place shift controller in reverse and repeat the process. Next place the shift controller in neutral and the engine should start. Repeat this procedure one more time to check safe operation of starter interrupt. If the starter does not engage during these attempts, then no further action is required.

6. Locate the starter interrupt connectors J11/P14 located on the Allison Transmission harness, It is likely to be found routed forward towards rear left of the engine along the firewall, rather than to the rear.
7. Locate the Front Chassis starter interrupt connectors J004/P004.
8. Reroute the portion of the Allison harness containing connectors J11 and P14 so they can reach the Front Chassis harness connectors.
9. Connect J004 to P14 and P004 to J11.
10. Secure the harness with cable ties every 6 inches. Ensure the harness route will not cause chaffing or interfere with moving components.
11. Retest the neutral start circuit as instructed in Steps 1-5 to confirm correct operation of the circuit.

## Parts

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When repair is needed, source parts locally.

| <b>Quantity</b> | <b>Part Number</b> | <b>Description</b> |
|-----------------|--------------------|--------------------|
| 20              | Source locally     | Cable ties         |

## Links

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-  [Chassis List](#)
-  [U.S. Customer Letter](#)
-  [Canada Customer Letter](#)

## Revision History

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- 05/06/2021: Customer letters added.