



# RCA-78-22-010-1: Adjust and Repair Cowl Harness

Rivian is initiating a customer satisfaction campaign for some model year 2022 R1T vehicles that may have been built with an improperly routed cowl harness. If this harness is improperly routed, there is a potential for this harness to make contact with the windshield wiper mechanism during wiper use. If the harness contacts the windshield wiper mechanism and this condition persists over time, the vehicle may experience a rub-through of the wires in the harness. This potential rub-through condition may result in effects ranging from no function loss (if a redundant circuit is damaged) to disabled restraint, crash detection or other performance systems/modes. If there is a function loss, a fault indicator light will illuminate on the driver display alerting the driver to have service performed on their vehicle and/or the vehicle will enter into a reduced performance safe-state mode and a "Limited Performance Mode" indicator light will illuminate on the driver display. Rivian will inspect the harness and reroute, repair, or replace it if necessary to correct the condition. Rivian is launching this campaign for customer satisfaction and to ensure the quality of Rivian vehicles.

<b>Document Type</b>	Customer Satisfaction Campaign Bulletin
<b>Date</b>	July 22, 2022
<b>Affected Region(s)</b>	USA
<b>Affected Model(s)</b>	R1T
<b>Model Year(s)</b>	2022
<b>Approximate Build Dates</b>	August 2021 - March 2022
 Refer to the FSA Dashboard to determine if this document applies to a specific vehicle.	
<b>Vehicle System</b>	78 - Low Voltage Electrical
<b>Minimum Service Location</b>	Service Center

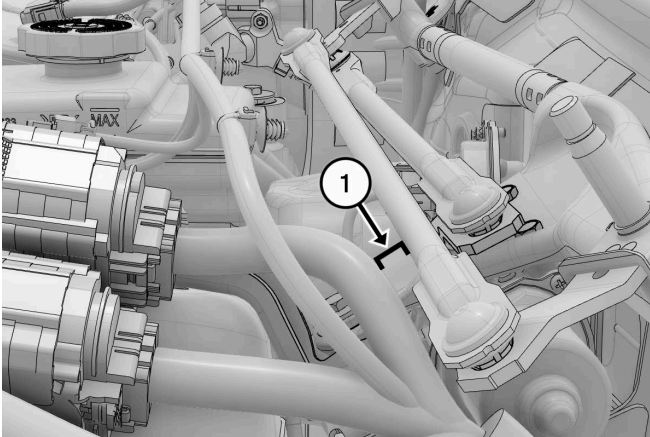
## Potentially Required Parts

Part Number	Quantity	Engineering Name	Service Name/Notes
Wire Harness Friction Tape	N/A	N/A	TESA 51026 or equivalent
C200061769-F	1	HARNES - DASH PANEL	Harness, Cowl
SC00018578-A	1	CABLE TIE - M8 50MM BNDL	

 **Attention:** The parts listed in this table are only for unique steps that are called out in this bulletin. Some sections of this bulletin might refer to Service Manual procedures which require additional parts. Always review the bulletin and all potentially related Service Manual procedures before ordering parts and beginning work.

## Wire Inspection

1. Remove: Screen, Leaf (refer to service manual procedure 647920010).
2. Check the minimum distance between the wiper linkage and the harness.



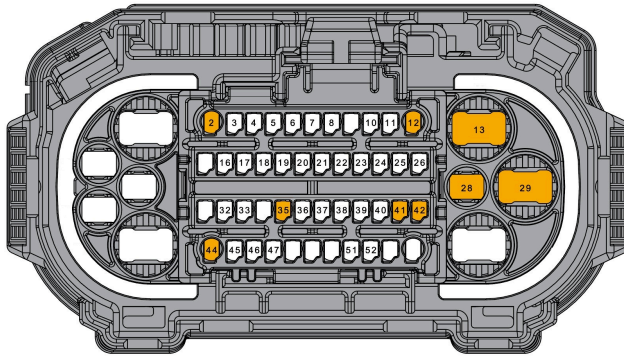
1	At least 40 mm (1 9/16 inches)
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- If the gap is 40 mm (1 9/16 inches) or greater, no additional work is required. Reinstall all components that were removed for access and replace all non-reusable components.
- If the gap is less than 40 mm (1 9/16 inches), continue to the next step.

3. Inspect the wires in the highlighted area:



- If abrasion has damaged the wiring insulation:
  - If any of the following wires are affected, replace the harness. Escalate for diagnostic assistance. Make sure that the grommet is positioned correctly, as described in the [Reposition Grommet](#) section and that the harness is properly secured to the bracket, as described in the [Secure Harnesses to Bracket](#) section.

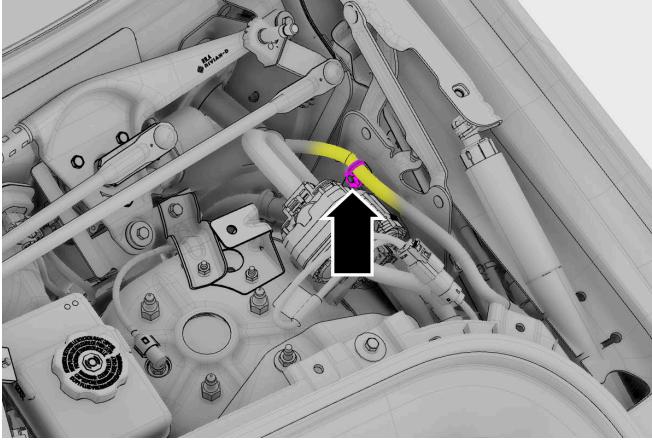


Pin	Color
2	Red/Orange
12	Red/Yellow
13	Brown
28	Black
29	Brown/Blue
35	White/Orange
41	Green/Yellow
42	Red/Yellow
44	Black

- Repair any other damaged wires. Escalate for diagnostic assistance. Continue to the [Reposition Grommet](#) section.
- If the protective tape has abraded and exposed wiring insulation, but the wiring insulation is not damaged, rewrap the affected area with new protective tape. Continue to the [Reposition Grommet](#) section.
- If the wiring and tape are undamaged, continue to the [Reposition Grommet](#) section.

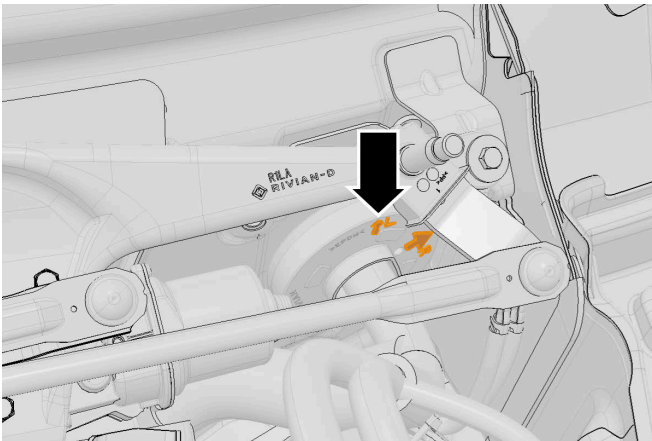
## Reposition Grommet

1.




2. Inspect the position of the grommet:

- If the small arrow next to the "L" points upward, skip to the [Secure Harnesses to Bracket](#) section.
- If the small arrow next to the "L" points in a different direction, continue to the next step.



3. Rotate the grommet so that the small arrow next to the "L" points upward.

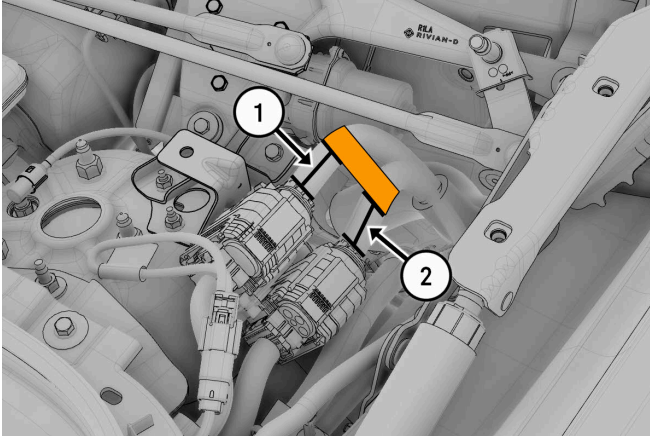
 **Tip:** If necessary:



4. Fully reseat the grommet.
5. Continue to the [Secure Harnesses to Bracket](#) section.

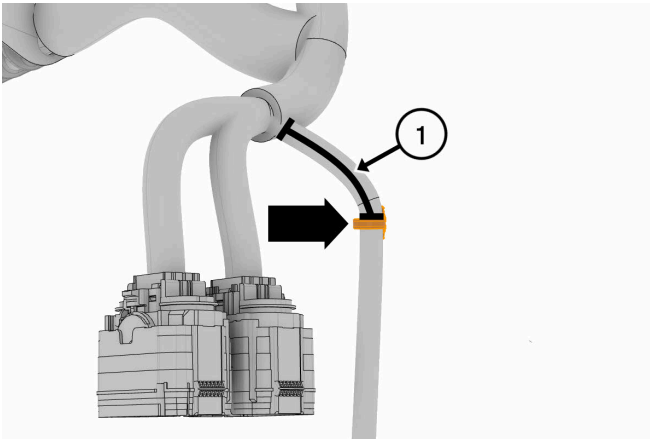
## Secure Harnesses to Bracket

1. Apply tape.



1	60 mm (2 3/8 inches)
2	50 mm (2 inches)

2. Install:

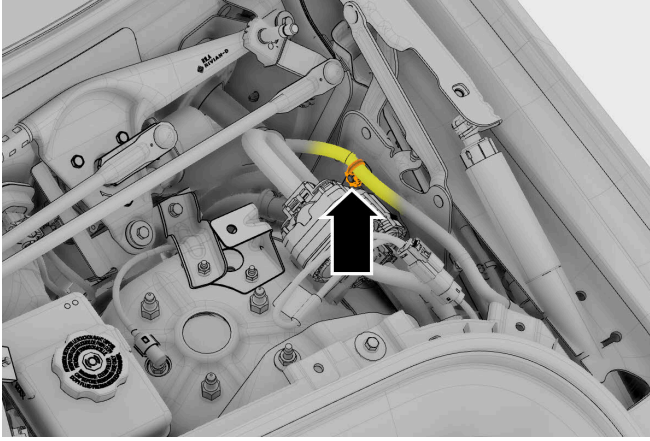


1	60 mm (2 3/8 inches)
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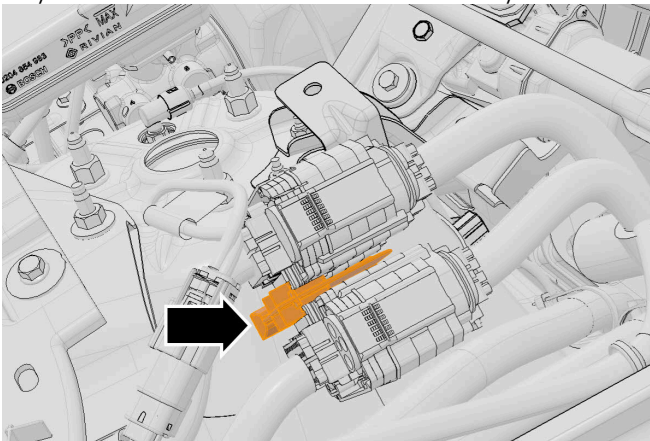


**Note:** Shown with components removed for clarity.

3. Install:



4. Make sure that both harnesses are secured to the highlighted component. Make sure the component is fully secured to the studs on the vehicle body.



5. Turn on the windshield wipers. Make sure that the wiper arm does not contact the harness. If necessary, push the harness downward to avoid potential contact.

6. Reinstall all components that were removed for access and replace all non-reusable components.

## Labor Codes

Labor Code	Description
RCA782201000	RCA-78-22-010-1 not applicable
RCA782201001	Inspect wiring; distance between wiper linkage and cowl harness acceptable
RCA782201002	Inspect wiring; no wiring damage present; reposition grommet; reposition harness
RCA782201003	Inspect wiring; apply additional protective tape; reposition grommet; reposition harness
RCA782201004	Inspect wiring; repair damaged wires; verify grommet positioned correctly; reposition harness
RCA782201005	Inspect wiring; replace cowl harness
Contact <a href="mailto:ServiceDocumentFeedback@rivian.com">ServiceDocumentFeedback@rivian.com</a> regarding labor codes and document content.	