

## Mack Horn and Battery Cable Contact

**Service Category** Service Department

**Section** Function Group 371

**Technician Skill Level** C

**Market** North America

### Applicability

**MACK**

Years	Models
2022-2024	GR

### Introduction

On certain Mack GR model trucks built between May 10, 2021, to March 28, 2023, it has been determined that the air horn and battery cable could interfere with each other causing the horn to rub through the insulation on the battery cable. To correct these findings, install a new battery cable securing bracket that improves the routing of the battery cable away from the horn.

### Production Change Information

This bulletin applies to vehicles built within the specified production changes below.

Brand	Engine	Emission Level	Starting Build Date	Ending Build Date
Mack	MP8	EM-USA21	10-May-2021	28-March -2023

### Warranty Information

<b>This repair is covered by an authorized Service Program. Reimbursement is obtained through the normal claim handling process.</b>		
Claim Type (used only when uploading from the Dealer Bus. Sys.)		<b>B</b>
Main Labor Code	Description	Hours
1720-16-09-01	Campaign, General (0.1x10)	1.0
3714-03-02-03	Battery Cable to Starter, Replacement	2.2 As (needed)
Causal Part	<b>22981475</b>	
SCC Authorization Code	<b>S3852</b>	
Expiration Date	<b>March 31, 2025</b>	

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### Parts Information

Part Numbers	Part Names	Quantity
23624115	Bracket	1
21386800	Battery Cable	(If needed) 1
21144405	Battery Cable	(If needed) 1

### Required Tools & Equipment

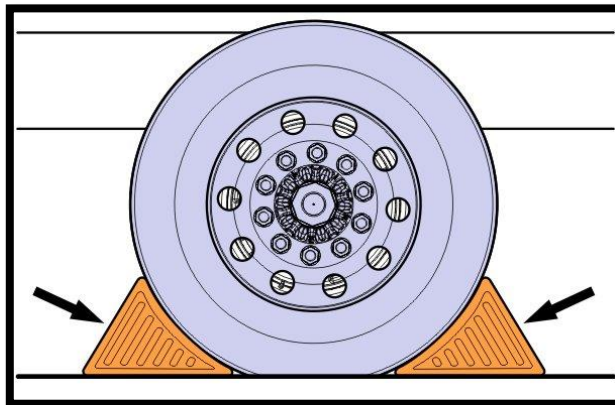
- None

### Calibration Information

- None

### Repair Procedure

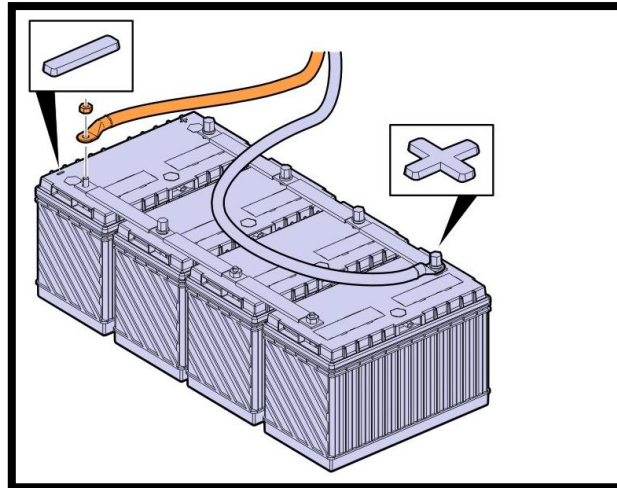
1. Park the vehicle on a level surface.
2. Apply the parking brake.
3. Place the gear lever in neutral.
4. Install wheel chocks.



5. Disconnect the cable from the negative terminal.

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6. Locate the bracket securing the battery cables over the transmission (#2 in Image 1).

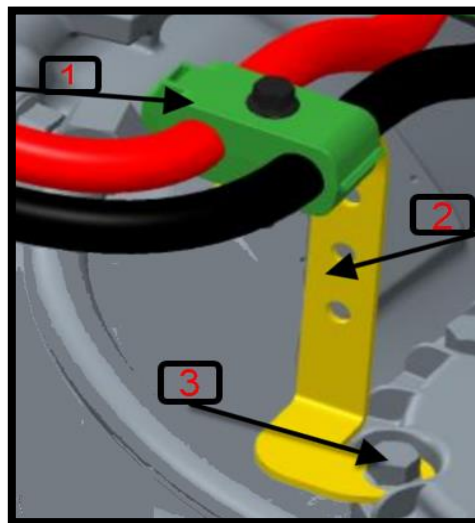


Image 1



Image 2

7. Remove the bolt and the attaching clamp securing the battery cables to the bracket (# 1 in Image 1).
8. Remove the cable tie and retainer securing the plastic coolant line to the bracket (# 4 in Image 2).
9. Remove the bolt securing the old bracket **22981475** to the top of the transmission (#3 in Image 1).

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10. Inspect both battery cables for damage from the horn contacting them. The battery cable is considered damaged if the insulation is cut and copper is showing.

(See Image 3 & 4)

- a. If damage to either battery cable is present, continue to **Step 11**.
- b. If no damage is found to either battery cable, continue to **Step 13**.



Image 3



Image 4

11. Replace the damaged battery cable with new one making sure it is properly secured and routed correctly.
12. Follow images 5 & 6 for proper battery cable routing and torque specification.

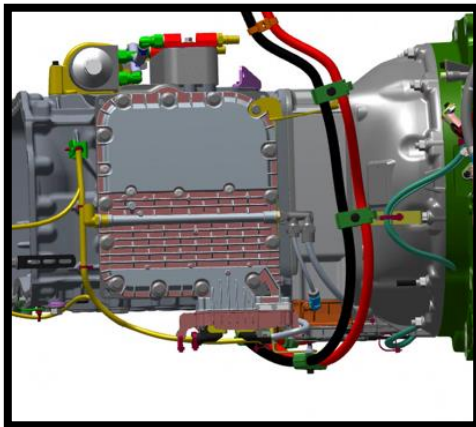


Image 5

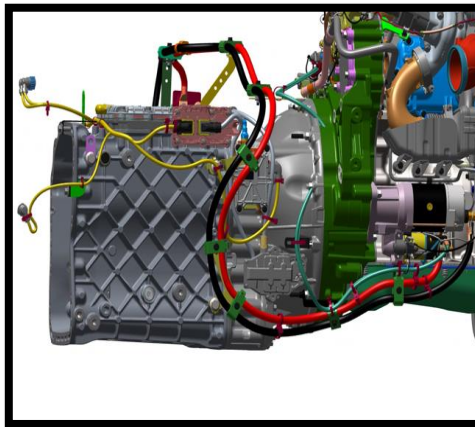


Image 6

Tightening torque	
Battery cable, starter terminal	26 ±1.5 Nm (19 ±1 ft-lb)
Battery cable, battery terminal	20 ±2 Nm (14.8 ±1.5 ft-lb)
Battery cable, attaching clamp, bolt	24 ± 4 Nm (18 ± 3 ft-lb)

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13. Remove the M8 Spring Nut from the old bracket and install on the new bracket **23624115**.
14. Install the new bracket **23624115** making sure it is positioned in the forward direction (#2 in Image 7).
15. Torque the mounting bolt securing the new bracket to specification (#3 in Image 7).

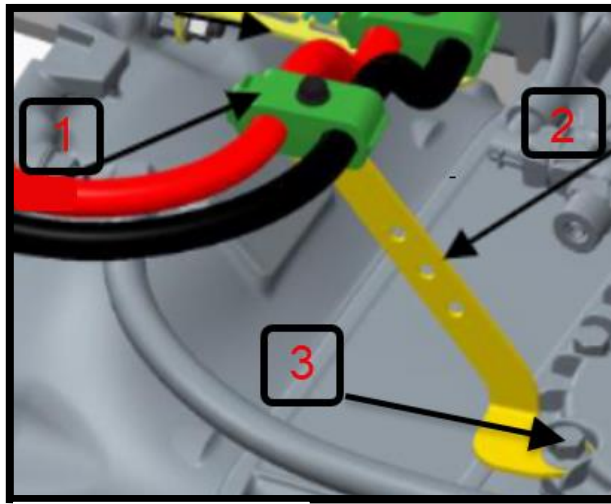


Image 7

Tightening torque	
Bracket, bolt	95 ±7 Nm (70 ±5 ft-lb)

16. Install the attaching clamp and hold down bolt securing the battery cables to the bracket (# 1 in Image 7).
17. Torque the battery cable attaching clamp bolt to specification (#1 in Image 7).

Tightening torque	
Battery cable, attaching clamp, bolt	24 ± 4 Nm (18 ± 3 ft-lb)

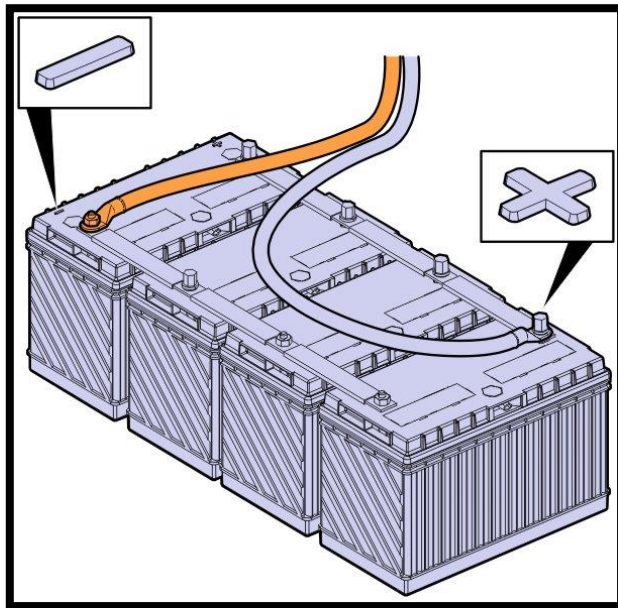
18. Install the retainer and cable tie securing the plastic coolant line to the bracket (Shown in Image 8).

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Image 8

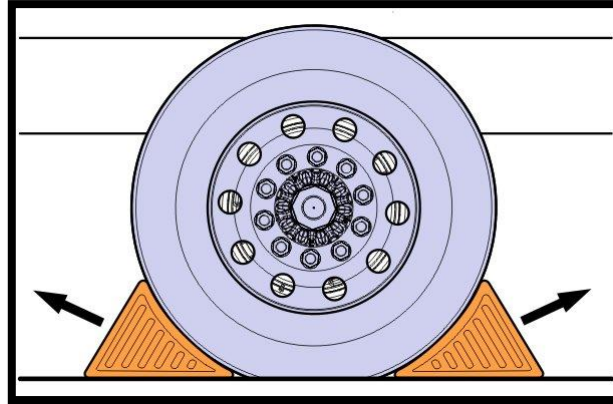
19. Connect the cable to the negative terminal.



20. Remove wheel chocks.

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21. Release the vehicle to service.