

54–334 Front Lighting Ground Splice Pack Failure

TSB-54-334-FTL

Creation Date: 2021-12-31

Engine or Vehicle Affected:

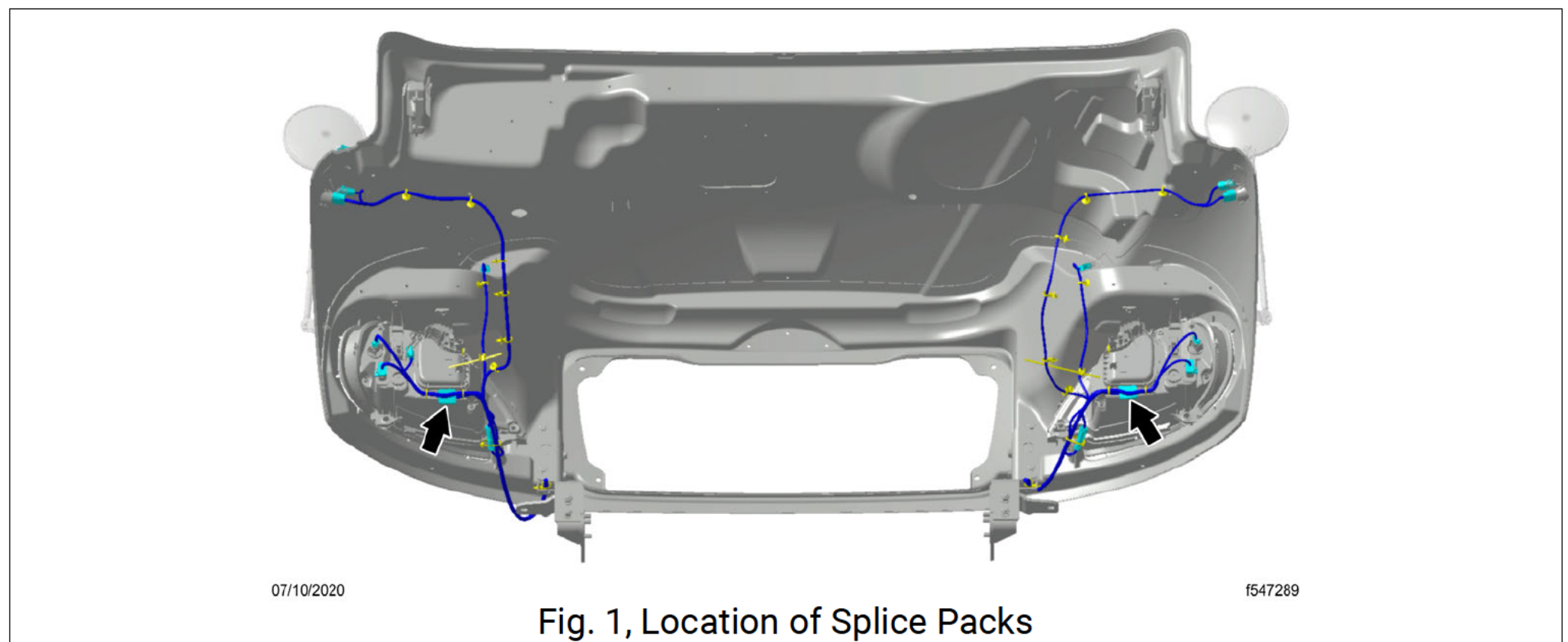
- ▶ Business Class M2
- ▶ 108SD
- ▶ 114SD

Description of Revisions: This bulletin replaces the version dated July 2020. The related VMRS codes are added.

General Information

Vehicles affected include all Business Class M2 and 108SD/114SD vehicles built from 2013 to the present.

The left and right hood lighting of these vehicles have separate ground paths to the frame and use the same splice pack parts. The splice packs are part of the hood commodity and located near the headlight assemblies. See Fig. 1.



These splice packs can fail, resulting in either the left or right lighting becoming intermittent or inoperative. There are no reports of a vehicle losing both headlights or both sets of hood lighting at the same time.

Failures can be easily identified by removing the green end cap from the splice pack and looking for burnt sections of the comb or burnt terminals. See Fig. 2.

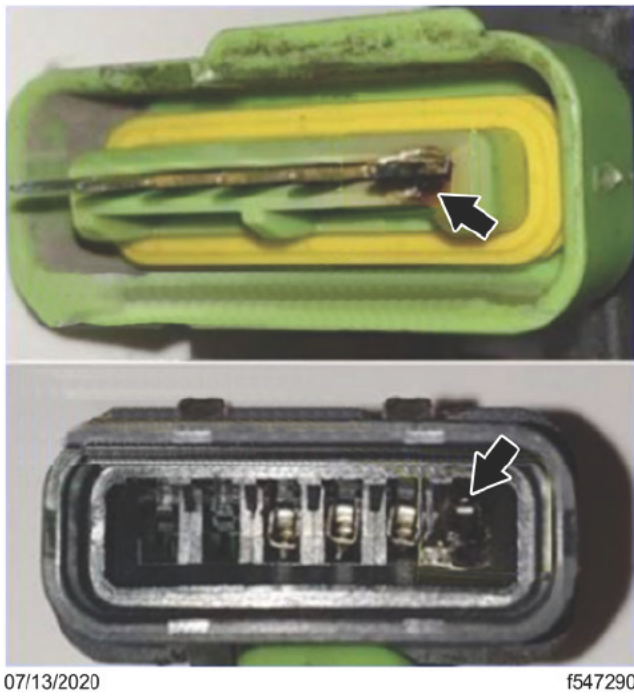


Fig. 2, Failed End Cap Comb and Burnt Terminal in Splice Packs

Parts

The parts required for this procedure are shown in Table 1.

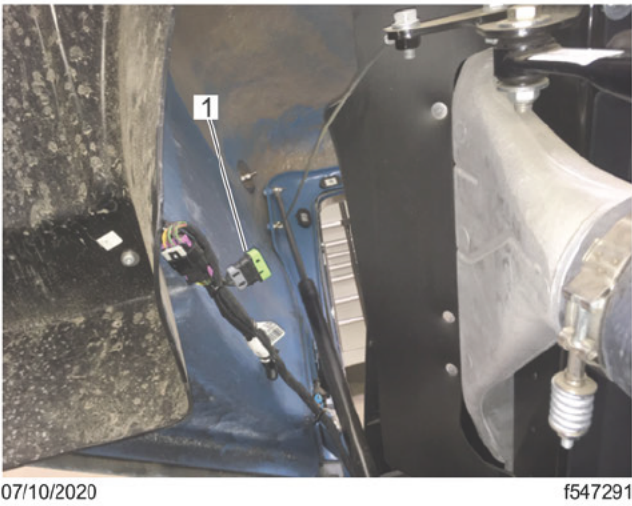
Table 1, Parts Table

Part Name	Part Number	Quantity
Closed End Connector (Pack of 5)	PHM 1 1729	1

Table 1, Parts Table

Work Instructions

1. ☐ Park the vehicle on a level surface, apply the parking brakes, and shut down the engine. Chock the tires.
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2. ☐ Disconnect the batteries.
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3. ☐ Open the hood.
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4. ☐ Locate the splice pack on the side of the vehicle with the intermittent or inoperative hood lighting. See Fig. 3.



1. Splice Pack
Fig. 3, Splice Pack Location (LH side shown, RH side similar)

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5. ☐ Unbundle and unwrap the wires to expose approximately four inches of each wire leading to the splice pack.
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6. ☐ Remove the original splice pack and strip each of the wires about ½ inch (13 mm). See Fig. 4.



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Fig. 4, Splice Pack Removed, Wires Stripped

7. ☐ If four wires enter the splice pack, go to step 8. If five wires enter the splice pack, two closed-end connectors and a 16 gauge jumper wire are required. A closed-end connector can only support four 16 gauge wires. The jumper wire will be installed between the two closed-end connectors.

- a. ☐ Cut an approximately four inch length of black 16 gauge wire and strip both ends approximately ½ inch (13 mm).

- b. ☐ Splice two of the wires from the splice pack with the jumper wire.

- c. ☐ Splice the other three wires from the splice pack with the other end of the jumper wire.

- d. ☐ Insert both sets of spliced wires into closed-end connectors. Ensure that all wires are fully seated into the closed-end connectors and crimp using tool DKIOCHA17003-3.

- e. ☐ Using a heat gun, carefully shrink the closed-end connector until gaps are removed and a protective gel seals the wiring. See Fig. [5](#).



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Fig. 5, Wires Sealed with Protective Gel

8. ☐ Splice together all four wires and insert them into a closed-end connector.

- a. ☐ Ensure that all wires are fully seated into the closed-end connector and crimp using tool DKIOCHA17003-3.

- b. ☐ Using a heat gun, carefully shrink the closed-end connector until gaps are removed and a protective gel seals the wiring. See Fig. [5](#).

9. ☐ Connect the batteries.

10. ☐ Close the hood.

11. ☐ Test the operation of the hood lighting.

Warranty

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Normal warranty applies. See Table [2](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

Table 2, OWL VMRS Codes and Labor Allowance

Primary Failed Part	Component Code	Cause Code	SRT Code	Description	Time: Hours
Ground Splice Pack	034-004-107	03	311-5000A	SPLICE PACK UPDATE, FRONT LIGHTING GROUND, REPLACE LH OR RH WITH CLOSED END CONNECTOR, PER INSTRUCTIONS, (SB54-334)	0.4
Ground Splice Pack	034-004-107	03	311-5000B	SPLICE PACK UPDATE, FRONT LIGHTING GROUND, REPLACE BOTH LH & RH WITH CLOSED END CONNECTOR, PER INSTRUCTIONS, (SB54-334	0.6

Table 2, OWL VMRS Codes and Labor Allowance

Note:
034-004-107
TROUBLESHOOT
F15
F25
F07
F18

CONTACT INFORMATION

For questions, please create a Service Technical Request using the DTTS Application on the DTNA Portal.

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