

REFERENCE:	TSB: 08-048-24 REV. A GROUP: 08 - Electrical	Date:	October 1, 2024	REVISION:	08-048-24
VEHICLES AFFECTED:	2023 - **2024** (GC) Alfa Romeo Tonale This bulletin applies to vehicles built on or before September 04, 2023 (MDH 0904XX).			MARKET APPLICABILITY:	
				<input checked="" type="checkbox"/> NA	<input type="checkbox"/> MEA
				<input type="checkbox"/> SA	<input type="checkbox"/> IAP
				<input type="checkbox"/> EE	<input type="checkbox"/> CH
CUSTOMER SYMPTOM:	Customers may experience one or more of the following: <ul style="list-style-type: none"> Dome lamps do not illuminate when the door is opened. Dome lamps do not illuminate when switched to ON. 				
CAUSE:	Wiring issue				

This bulletin supersedes Technical Service Bulletin (TSB) 08-048-24, date of issue February 17, 2024, which should be removed from your files. All revisions are highlighted with ****asterisks**** and include adding a model year, updated RSU statement, Repair Procedure step, Diagnosis statement and Special Tools table.

****This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 24-020 date of issue February 17, 2024. All applicable RSU VINs have been loaded. To verify this RSU service action is applicable to the vehicle, use VIP or perform a VIN search in DealerCONNECT/Service Library. All repairs are reimbursable within the provisions of warranty.****

REPAIR SUMMARY:

This bulletin involves modifying the dome lamp wiring harness by adding a resistor in line with circuit M24.

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
23-14-02-9B	Console, Overhead - Install Jumper Harness and Update BCM (0 - Introduction)	6 - Electrical and Body Systems	0.7 Hrs.
Failure Code	ZZ	Service Action	

SPARE PARTS:

Qty	Part No.	Description	Notes
1	68676594AA - NA 50580173 - EMEA	Wiring, Overhead Console	Kit contains three heat shrink tubes
(AR)	68065586AA - NA	Tesa Tape	

DIAGNOSIS:

****If a customer's VIN is listed in VIP or your RSU VIN list, perform the Repair Procedure**.**

SPECIAL TOOLS/EQUIPMENT:

Description	Ref. No.	Notes
wiTECH or Equivalent	-	
Soldering Tool	NPN	

REPAIR PROCEDURE:

NOTE: Install a battery charger to ensure battery voltage does not drop below 13.2 volts. Do not allow the charging voltage to climb above 13.5 volts during the flash process.

NOTE: If this flash process is interrupted/aborted, the flash should be restarted.

1. Reprogram the BCM with the latest available software. ****If issues arise when flashing a module using the wiTECH Diagnostic Application, please submit a ticket to the Helpdesk. The helpdesk can be found within the Help menu.****
2. Clear all DTCs that may have been set in any module due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
3. Disconnect and isolate the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector first before disconnecting the negative battery cable. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info >08 - Electrical / 8F - Engine Systems / Battery System / Standard Procedure.
4. Remove the front dome lamp assembly. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info > 08 - Electrical / 8L - Lamps and Lighting / Lamps/ Lighting - Interior / Lamp, Dome / Removal.
5. Remove approximately 0.7 - 1.18 cm (2 - 3 in.) of the wiring harness tape, from the dome lamp wiring harness [Fig. 1](#).

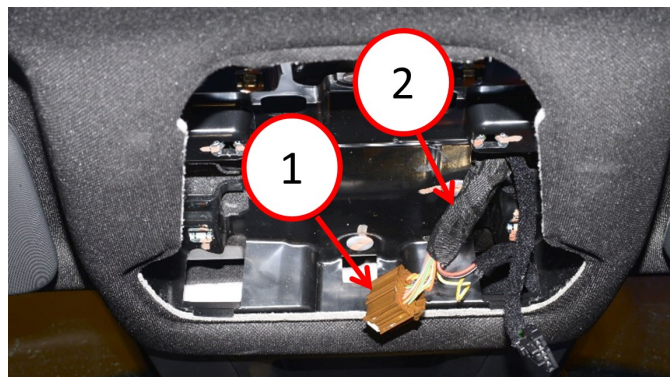


Fig. 1
Dome Lamp Wiring Harness Connector And Tape

1 - Dome Lamp Wiring Harness Connector
2 - Tape To Remove

6. Cut the dome lamp wire harness yellow/white wire (pin 6) [Fig. 2](#).

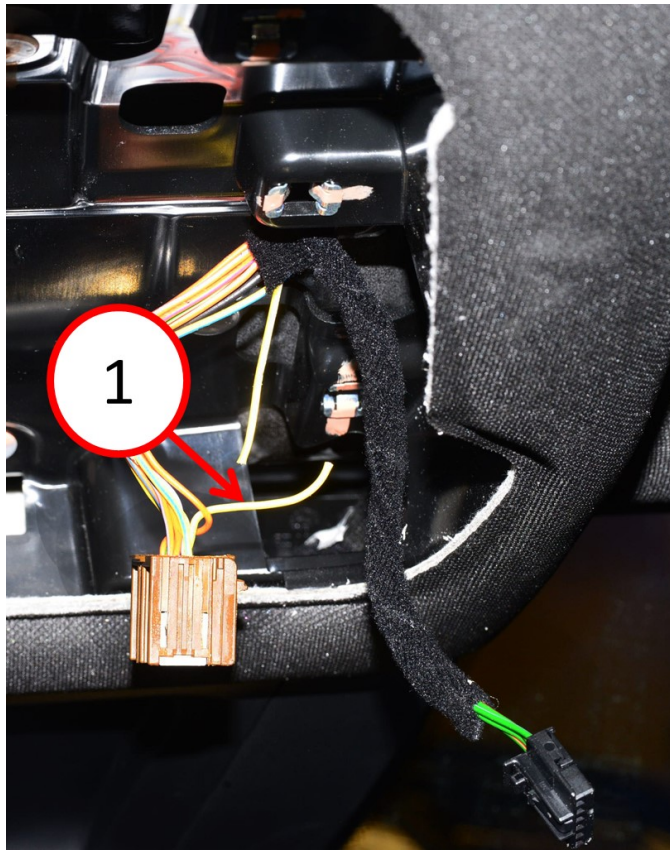


Fig. 2
Yellow/White Wire (Pin 6)

1 - Yellow/White Wire (Pin 6)

7. Position heat shrink onto one of the yellow/white wire wires and connect the yellow/white wire from the dome lamp wiring harness, to the yellow/white wire on the jumper wiring harness [Fig. 3](#). **Do not heat the heat shrink tubing.**

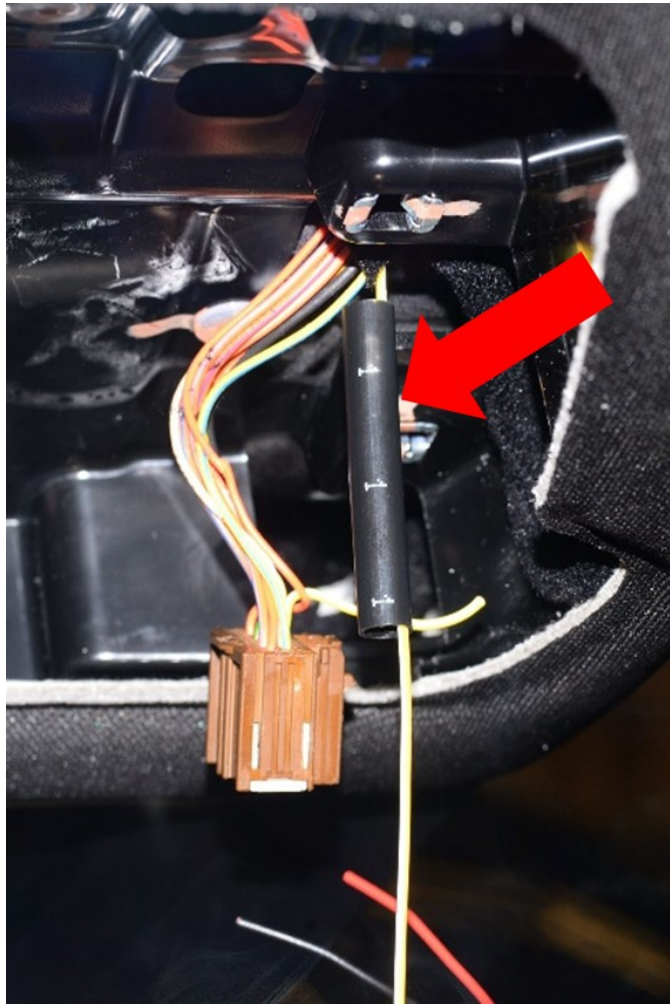


Fig. 3
Heat Shrink Positioned Over Wires

CAUTION!

Cover and protect the instrument panel and center console before soldering. Failure to do so may result in damage to the instrument panel and center console.

8. Solder the jumper harness to the dome lamp wire harness (pin 6) yellow/white wire [Fig. 4](#).

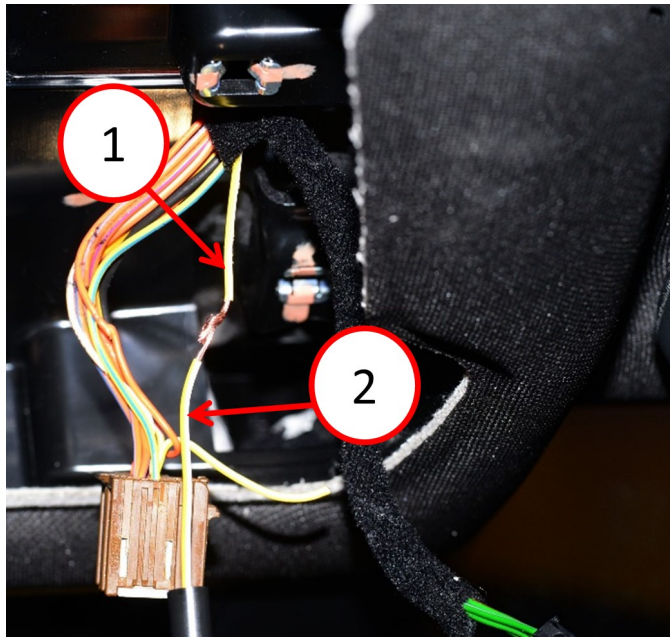


Fig. 4
Yellow/White Wires To Solder

- 1 - Yellow/White Wire From Connector
2 - Yellow/White Wire From Jumper

9. Using a suitable heat gun, heat the heat shrink tubing until it is tightly formed around the wires and sealant begins to seep out of both ends of the tubing.
10. Position heat shrink onto the red jumper harness wire and connect the red wire to the cut dome lamp yellow/white wire connector side (pin 6) [Fig. 5](#). **Do not heat the heat shrink tubing.**

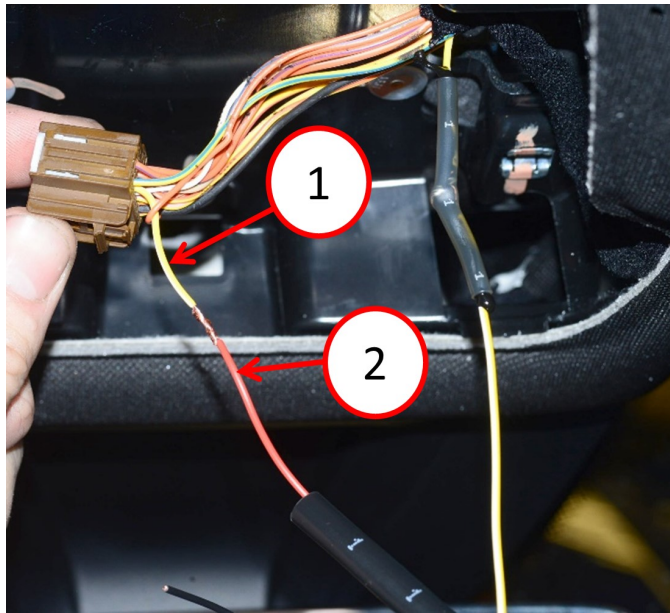


Fig. 5
Red Jumper Harness Wire To Dome Lamp Yellow/White Wire

- 1 - Yellow/White Dome Lamp Connector Wire (pin 6)
2 - Red Jumper Wire Harness Wire

11. Solder the red jumper harness wire to the yellow/white dome lamp connector wire (pin 6) [Fig. 5](#).
12. Using a suitable heat gun, heat the heat shrink tubing until it is tightly formed around the wires and sealant begins to seep out of both ends of the tubing.

13. Cut the dome lamp wire connector harness black wire (pin 2) [Fig. 6](#).

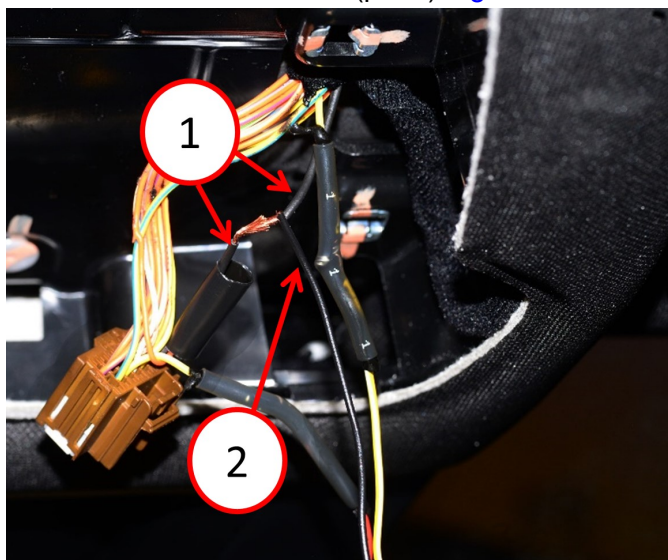


Fig. 6
Black Wires

1 - Black Dome Lamp Harness Wires (Pin 2)
2 - Black Jumper Harness Wire

14. Position heat shrink onto one of the black wires and connect all three black wires [Fig. 6](#). **Do not heat the heat shrink tubing.**
15. Solder all three black wires from the jumper harness and the dome lamp wire harness black wire [Fig. 6](#).
16. Using a suitable heat gun, heat the heat shrink tubing until it is tightly formed around the wires and sealant begins to seep out of both ends of the tubing.
17. Using tesa tape, tape the soldered wire connections to the dome lamp wiring harness.
18. Insert the dome lamp wire harness with jumper wire harness, into the right side dome lamp assembly mounting square cavity [Fig. 7](#).

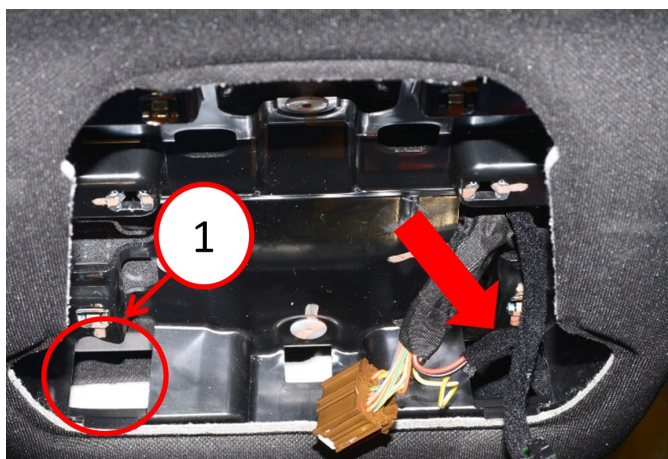


Fig. 7
Dome Lamp Assembly Mounting Cavities

1 - Left Side Dome Lamp Assembly Mounting Square Cavity Shown (Right Side Similar)

19. Install the dome lamp assembly. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info > 08 - Electrical / 8L - Lamps and Lighting / Lamps/Lighting - Interior / Lamp, Dome / Installation.
20. Connect and the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), connect the IBS connector first before connecting the negative battery cable.

POLICY:

Reimbursable within the provisions of the warranty.

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