

ATTENTION: This Technical Service Bulletin was issued by Gulf States Toyota, Inc.

For Toyota Dealers located in the Gulf States Toyota Region: Please refer to GST Dealer Daily to obtain instructions on how to order parts and submit a warranty claim (If applicable).

For Toyota Dealers *NOT* located in Texas, Oklahoma, Mississippi, Arkansas or Louisiana: For Repair Authorization, Parts Ordering, and Warranty Claims please contact GST Accessory Technical Support at 1-800-444-1074.

Thank you for your continued support.



GST-TSB-18-001

March, 2018

Technical Service Bulletin

Service Category: Vehicle Exterior
Section: Lighting

Market: USA

Cargo Bed Light Intermittent Function

Applicability

YEAR	MODEL	INSTALLED ACCESSORY INFORMATION		
		DESCRIPTION	ACCESSORY CODE	PART NUMBER
2018	Tundra	Cargo Bed Light	BL	00012-T1706-01

NOTE

This TSB only applies to vehicles invoiced at Gulf States Toyota between 8/15/2017 – 9/8/2017.

Introduction

Some 2018 MY Tundra vehicles equipped with an LED Bed Light Kit accessory may exhibit intermittent or no function of the bed lights. This repair procedure is intended to provide a resolution to this potential issue.

Parts Information

Component Needed for Repair	Quantity Required per Vehicle
Red Scotchlok™ Self-stripping Electrical Tap Connector	1

Warranty Information

This repair is covered under the basic vehicle warranty. This warranty is in effect for **36 Months or 36,000 Miles**, whichever occurs first from the vehicle's In-service date.

GST Installed Product	
MODEL (Invoice Date)	Tundra 2018 (8/15/17-9/8/17)
OPERATION CODE	B18021
OFF	00012-T1706-01
SSC No./TSB	TS03
Trouble Code	99
LABOR TIME <i>(The cost of Red Scotchlok™ is included in the labor time)</i>	0.5
Replacement Part	No Replacement Part

Repair Procedure

1. Disconnect Negative Battery Terminal.
2. Remove driver side door scuff plate.
3. Remove driver side kick panel.
4. Locate the ground lug bolt.
5. Is there a ring terminal installed onto the ground bolt?
 - Yes – Proceed to step 6.
 - No – This TSB does not apply.
6. Remove the driver side instrument panel end garnish (Fig. 1).
7. Remove the driver side lower instrument panel garnish (Fig. 2).

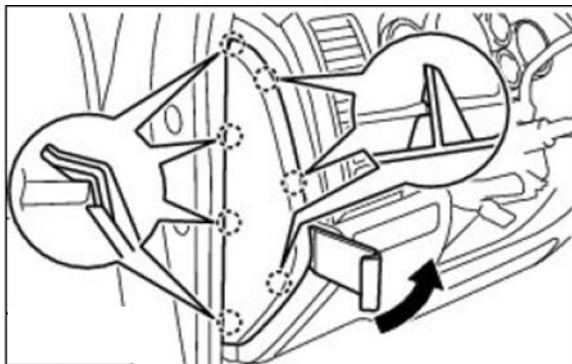


Fig. 1



Fig. 2

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Repair Procedure (cont'd)

8. Locate connector 3K on driver side junction block (Fig. 3).

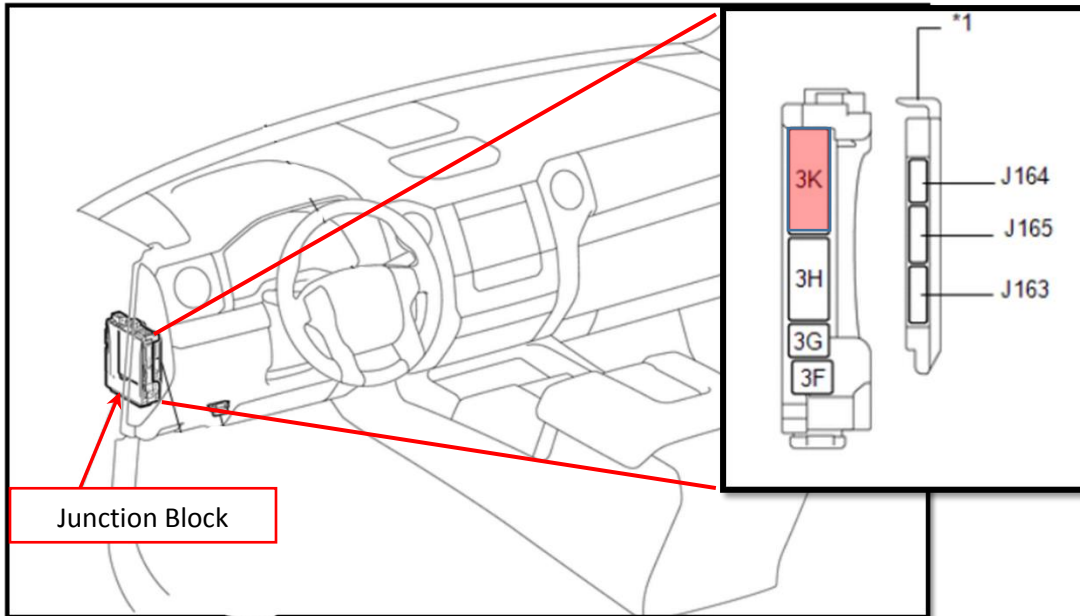
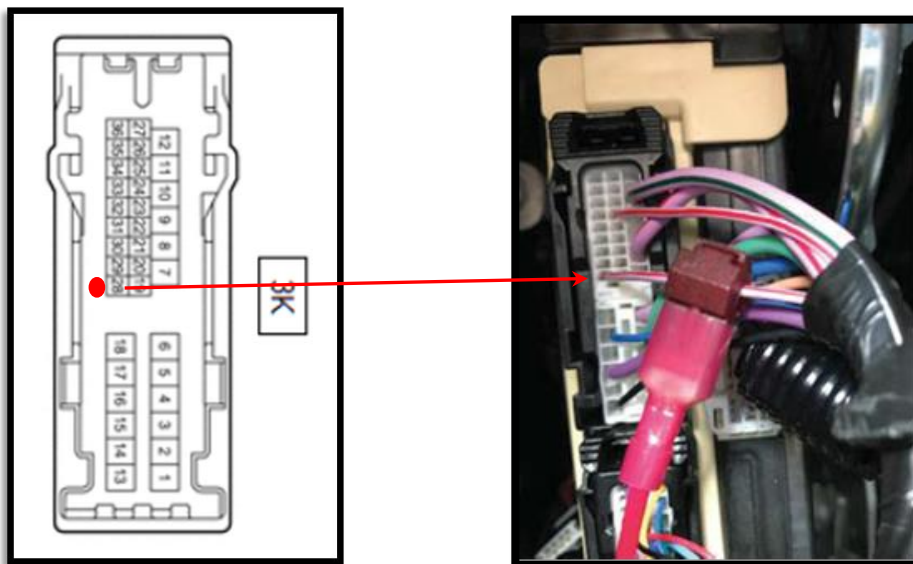


Fig. 3

Is Red T-Tap installed onto PIN 28? (Violet with Red Stripe Wire)

- **Yes** – Proceed to step 9.
- **No** – This TSB does not apply.



Repair Procedure (cont'd)

9. Remove the Red Male Spade connector from the Red T-Tap.
10. Remove the Red T-Tap from PIN 28 wire and repair broken wire referencing the Terminal and Connector section under the EWD for approved aluminum method.

NOTE

Reference the Terminal and Connector Repair Section under EWD for approved aluminum wire repair method.

11. Locate Connector 3H (Fig.4).

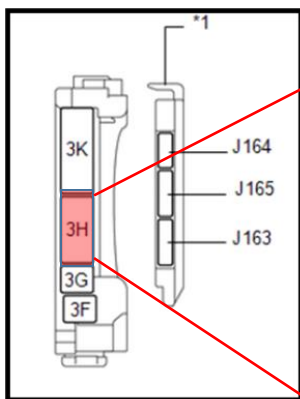
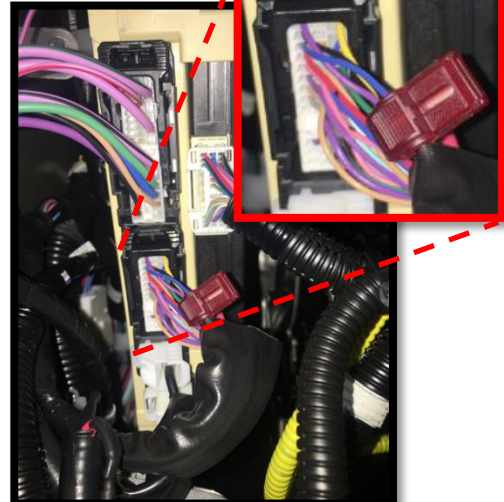
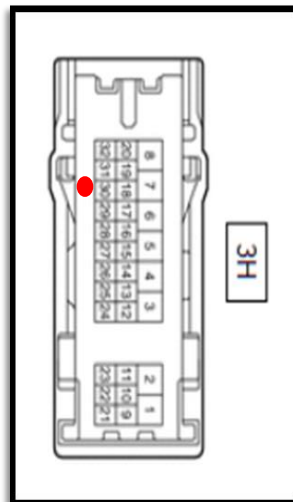


Fig. 4



12. Reference Page 9 on **T-Tap installation Guide** for proper T-Tap installation.
13. Install Red T-Tap onto PIN 30 Wire (Blue).
14. Install Red Male Spade (Removed in Step 9) connector onto Red T-Tap on PIN 30 wire (Blue).
15. Locate the ground lug bolt on driver side kick panel area.
16. Remove the ground bolt.
17. Remove the ring terminal (black wire).
18. Re-install the ground bolt and torque to **79 in.*lbs.**

Repair Procedure (cont'd)

19. Cut the ring terminal off of the end of the black wire.



20. Locate the Cargo Light Switch connector J50 and unplug from the back of switch.

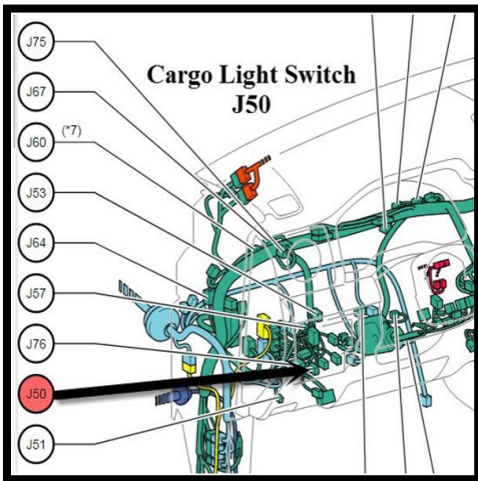


Fig. 5

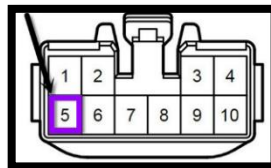


Fig. 5a

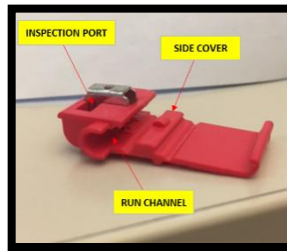


Fig. 6



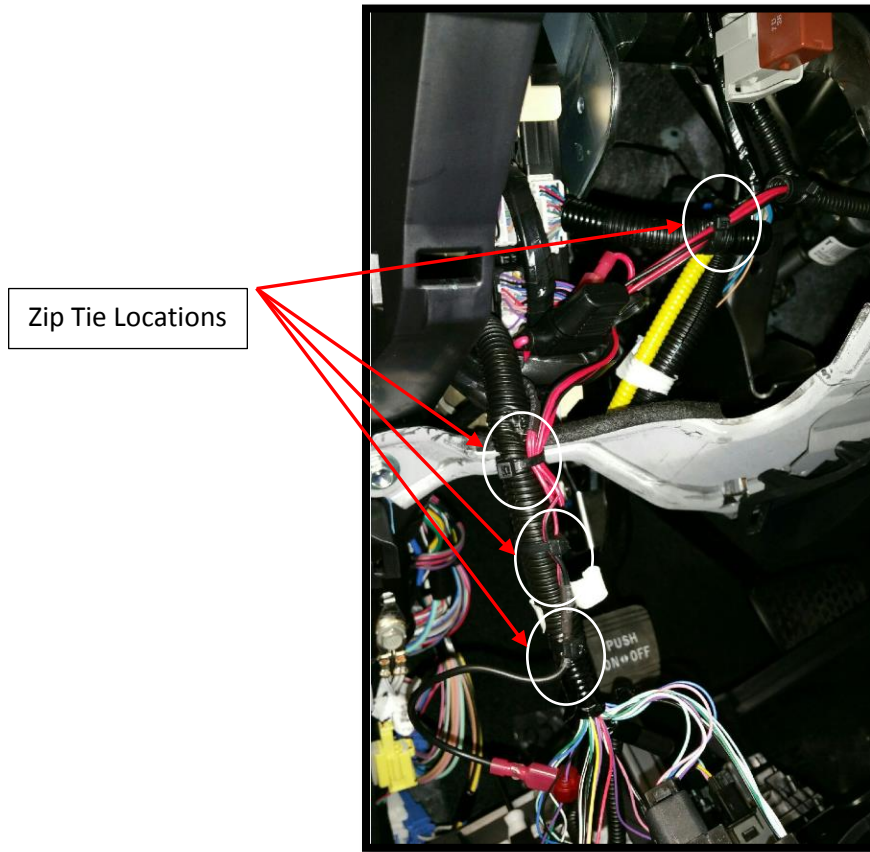
Fig. 7

21. Install a Red Scotchlok™ Self-stripping Electrical Tap Connector (Fig. 6).

- Run Wire – PIN 5 on connector J50 (Fig.5 and 5a).
 - Tap Wire – Black Wire from Step 19.
- A. Place unstripped Run wire inside run channel.
 - B. Close side cover until latched.
 - C. Insert unstripped Tap wire completely and check its position in the inspection port.
 - D. Hold tool perpendicular to the wire and make the connections by driving the u-contact down flush with the top of the plastic insulator.
 - E. Close hinged top cover until latched (Fig. 7).

Repair Procedure (cont'd)

- 22. Reference Page 10 on **Scotchlok™ Self Stripping Electrical Tap C** for proper installation.
- 23. Re-connect Cargo Light Switch connector.
- 24. Route and install zip ties per the following image.



- 25. Re-install lower instrument panel garnish.
- 26. Re-install instrument panel end garnish.
- 27. Re-install driver side kick panel.
- 28. Re-install driver side door sill protector.
- 29. Re-connect the negative battery terminal and tighten to **48 in*lbs.**
- 30. Perform Bed Light Function test per instructions on Page 8.



Bed Light Function Test

- The vehicle short pin or DC cut pin must be installed prior to performing the accessory function check.
- Note: the LED Bed Light functionality will follow the customizable vehicle interior illumination time delay settings.

Check:

Look For:

Accessory Function Checks

- Cargo light switch set to “ON” position.
- Cargo light switch set to “OFF” position.
- Cargo light switch set to “DOOR” position.

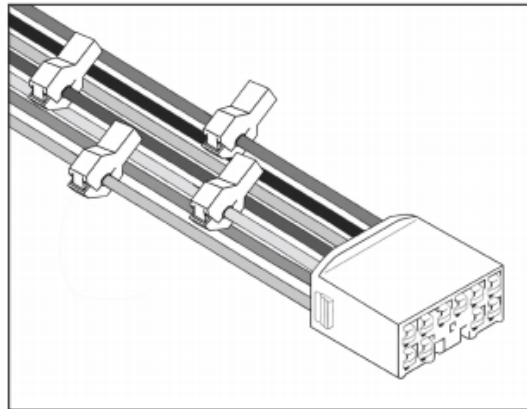
- With the Driver and Passenger doors closed, press the lock button on the remote keyless entry fob.
- With the Driver and Passenger doors closed, use the key to lock the door.
- With the Driver and Passenger doors closed, press the unlock button on the remote keyless entry fob.
- With the Driver and Passenger doors closed, use the key is to unlock the door.
- With the Driver and Passenger doors closed and unlocked, open the Driver side door.
- With the Driver and Passenger doors closed and unlocked, open the Passenger side door.

- Verify the LED Bed Lights illuminate.
- Verify the LED Bed Lights do **not** illuminate.
- Verify the LED Bed Lights are illuminated when any door is opened.

- Verify the LED Bed Lights do **not** illuminate.
- Verify the LED Bed Lights do **not** illuminate.
- Verify the LED Bed Lights illuminate and remain illuminated for 15 seconds if a door is not opened.
- Verify the LED Bed Lights illuminate and remain illuminated for 15 seconds if a door is not opened.
- Verify the LED Bed Lights illuminate.
- Verify the LED Bed Lights illuminate.

T-TAP Reference Information

STAGGER ALL T-TAPS WHEN MULTIPLE CONNECTIONS ARE ON A COMMON CONNECTOR



When applying multiple T-Taps to a common connector, the T-Taps must be staggered to avoid excessive stress/strain on the wires. T-Taps must also be applied at least 1 inch away from the connector housing.

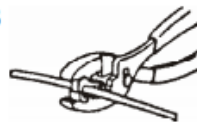
T-TAP INSTALLATION

When installing T-Tap connectors, be sure the wire is located inside the wire channel of the T-Tap connector before closing the connector over the wire with pliers. When possible, install T-Taps at least 1" away from connector.

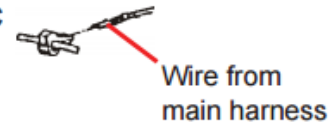
Step A



Step B



Step C



IMPORTANT! After installation, inspect and ensure that Keyless System Harnesses are clear of all HOT, SHARP or MOVING objects.

IMPORTANT! Care must be exercised when using the Black T-Taps. To avoid damage and broken wires, please note:

- **Ensure there is NO tension on the T-Tap connection when securing the harness. The wire should be slack.**
- **Excessive manipulation and/or stress on the wire connection could lead to wire breakage.**
- **Center the wire in the metal insert, NOT the plastic side of the T-Tap. Misalignment of the wire against the metal insert could lead to cutting the wire.**

Scotchlok™ Reference Information

3M™ Scotchlok™ Self-Stripping Electrical Tap Connector 558

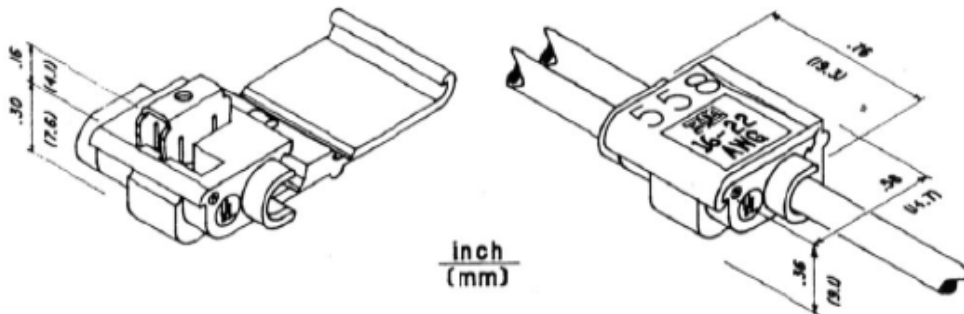
Installation Technique



WARNING

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

1. Place unstripped run wire inside run channel.
2. Close side cover until latched. Insert unstripped tap wire completely and check its position in the inspection port.
3. Hold tool perpendicular to the wires and make the connection by driving the u-contact down flush with the top of the plastic insulator.
4. Close hinged top cover until latched.



Shelf Life & Storage	3M™ Scotchlok™ Electrical Tap Connector 558 has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).
Availability	Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.
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