

Part Number: PK539-34N00**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	Left Hand Lightbar Assembly
2	1	Right Hand Lightbar Assembly
3	1	ECU & Wiring Harness Assembly
4	1	Hardware Bag

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	5	Lightbar J Clip (Nylon)
2	1	ECU Bracket Bolt (M8)
3	1	Spring Washer
4	1	Flat Washer
5	1	Foam Tape (200mm*50mm)
6	25	Cable Tie (200mm)

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		
2		
3		

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Shoes	
Hard Cap	
Special Tools	Notes
Installation Tools	Notes
Socket	10mm, 13mm
Extension	
Ratchet	
Torque Wrench	5.4 Nm (48 ft-lb)
Scissor	
Special Chemicals	Notes
Threadlocker Blue	
Toyota Approved Cleaner	

General Applicability

MY24 and newer Tundra, HV models with Towing Package
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Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		
2		
3		

Legend**STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.**OPERATOR SAFETY:** Use caution to avoid risk of injury.**CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.**TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.**REVISION MARK:** This mark highlights a change in installation with respect to previous issue.**SAFETY TORQUE:** This mark indicates that torque is related to safety.**REGULATORY MARK:** This mark indicates the component is related to regulatory compliance

Procedure

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.

1. Prepare for Installation.

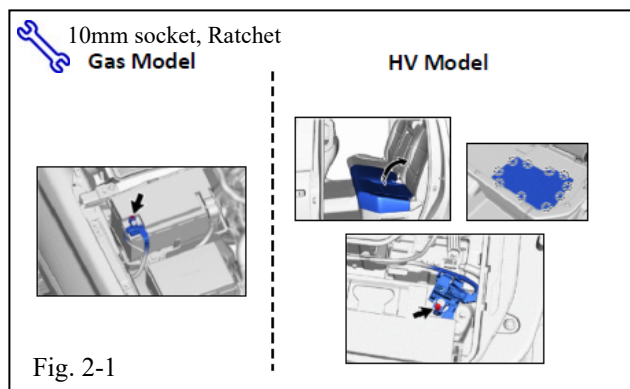
(a) Confirm kit content are present.

- (1) LH Light Bar
- (2) RH Light Bar
- (3) ECU and Wiring Harness
- (4) Hardware Bag
 - (1) Zip ties (25)
 - (2) Light Bar Bracket (5)
 - (3) M8 Bolt (1)
 - (4) Flat Washer (1)
 - (5) Spring Washer (1)
 - (6) Foam Tape 200*50mm (1)

(b) Disconnect all external accessories on vehicle towing connector (Fig. 1-1).



Fig. 1-1



2. Disconnect Battery

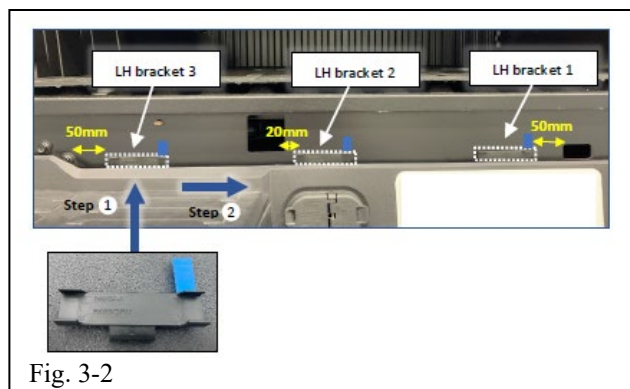
(a) Disconnect negative terminal (Fig. 2-1).

- (1) Gas: Battery is located in engine bay
- (2) HV: Battery is located under rear seat bench of driver side.

NOTE: Keep negative cable away from the battery terminal to avoid accidentally reconnecting the 12V power if the cable falls back to its natural shape.

3. Install Light Bar Brackets (J Clips)

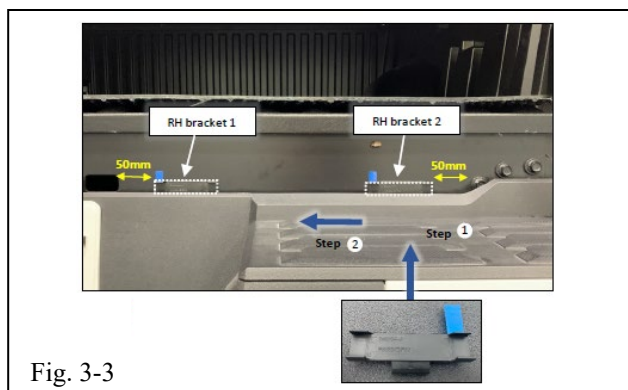
(a) Use Toyota certified Break Cleaner to clean the area on Rear Sill Cross bar (Fig. 3-1).



(b) Obtain (3) light bar brackets. Hook each bracket to vehicle rear sill cross bar from left hand side bumper opening as shown in Step 1, then slide it to designated location shown in Step 2 (Fig. 3-2).

- (1) LH Bracket 1: 50mm from spare tire hole
- (2) LH Bracket 2: 20 mm from tailgate wiring harness grommet
- (3) LH Bracket 3: 50mm from bolt

NOTE: Must hook bracket from the side bumper opening to obtain enough hand space.



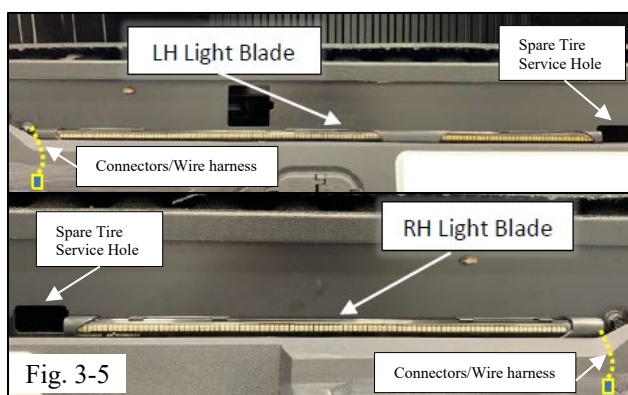
(c) Obtain (2) light bar brackets. Hook each bracket to vehicle rear sill cross bar from right hand side bumper opening shown in Step 1, then slide it to designated location shown in Step 2 (Fig. 3-3).

(1) RH Bracket 1: 50mm from spare tire hole

(2) RH Bracket 2: 50mm from bolt



(d) Make sure all brackets sit on same horizontal level. Hold brackets from bottom with one hand, slightly lift bracket and peel off tape film with another hand (Fig 3-4).



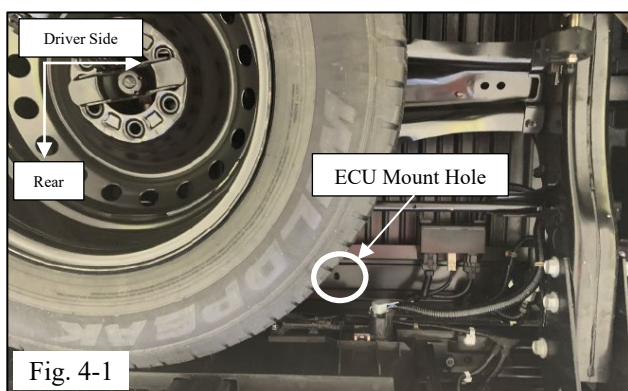
(e) Clip light bar blades into brackets. Pass the connectors through the bumper opening (Fig.3-5).

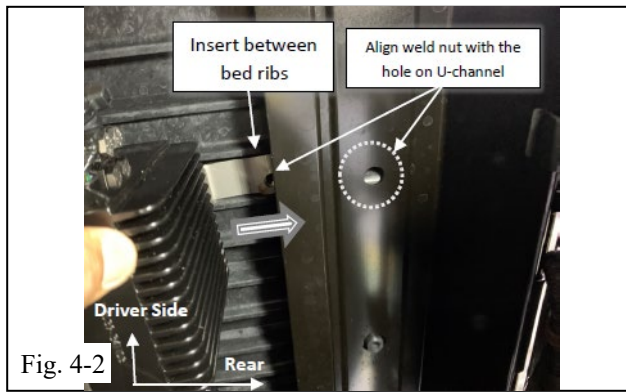


NOTE: Make sure spare tire service hole is not blocked by any light bar blades.

4. Install ECU and Bracket

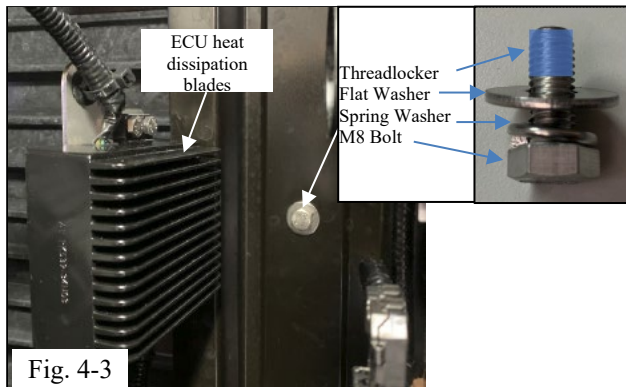
(a) Lift vehicle. Locate the ECU mount hole in area under truck bed on the driver side (Fig. 4-1).





- (b) Insert the ECU bracket between the bed ribs and make sure the weld nut on the ECU bracket is aligned with the target hole on U-channel (Fig. 4-2).

- (c) Apply blue threadlocker to the bolt thread.

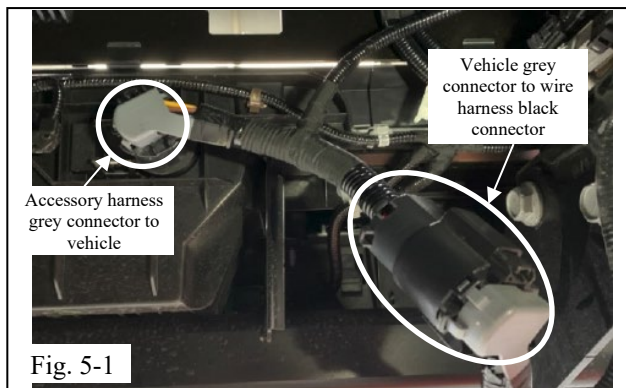


- (d) Install M8 bolt, spring washer and flat washer according to the sequence as shown socket with extension (Fig 4-3).

Torque: 18.5 N-m (14 ft-lb)

NOTE: Confirm ECU heat dissipation blades faces rear orientation.

5. Wire Harness Install



- (a) Connect accessory harness grey connector to vehicle and vehicle harness grey connector to accessory harness black connector (Fig. 5-1).

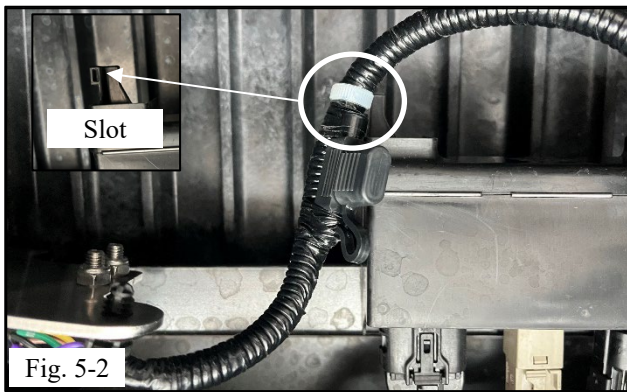
- (b) Apply foam tape on vehicle grey connector and accessory harness black connector.

- (c) Connect LH Light bar connector (white, female) to accessory harness connector (white, male).

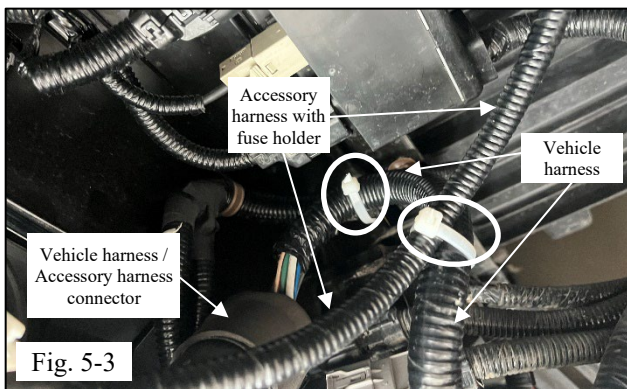
- (d) Connect RH Light bar connector (white, male) to accessory harness connector (white, female).



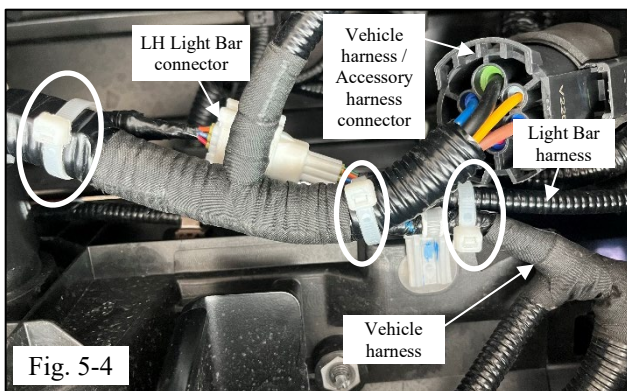
NOTE: Do pull, push, pull test on all connectors to ensure the connectors are fully engaged.



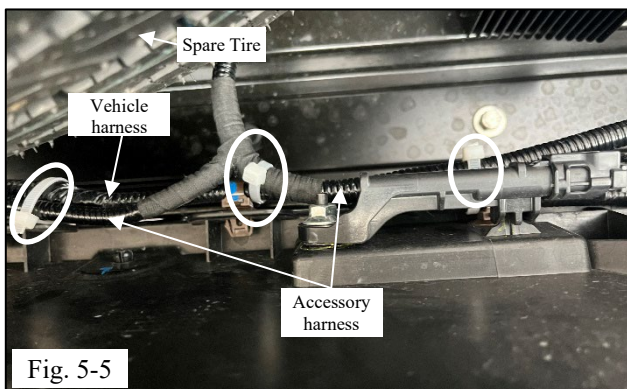
- (e) Thread zip tie through the slot shown in (Fig. 5-2) to secure fuse holder.



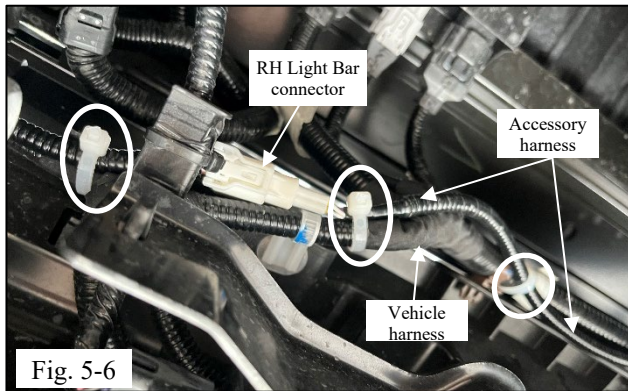
- (f) Turn vehicle harness up and apply (1) zip tie to secure with other vehicle harness and (1) zip tie to secure accessory harness with vehicle harness (Fig 5-3).



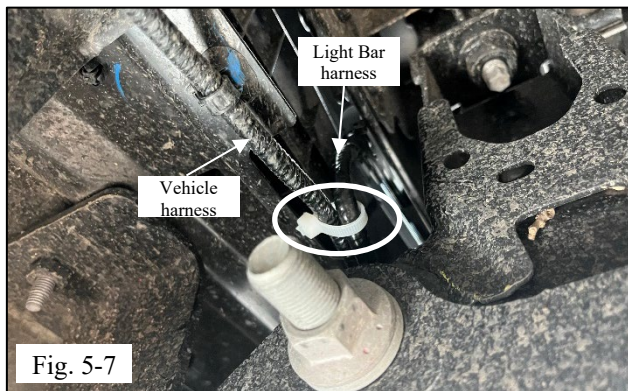
- (g) Apply (3) zip ties to secure the light bar harnesses against the accessory harness (Fig. 5-4).



- (h) Apply (3) zip ties in location shown in (Fig. 5-5) to secure accessory harness against vehicle harness.



- (i) Move to the passenger side. Apply (3) zip ties in location shown in (Fig. 5-6) to continue to secure accessory harness against vehicle harness.




- (j) Apply (1) zip tie in location shown in (Fig. 5-7) to secure the light bar harness against vehicle harness.

- (k) Trim excess on zip ties.

- (l) Lower vehicle

6. Connecting Battery.

- (a) Reconnect 12V battery negative terminal.

 **Torque: 5.4 Nm (48 ft-lb)**

7. Owner's Manual

- (a) Place Light Bar Owner's Manual Sheet into the vehicle Owner's Manual Page

8. Perform Function Check

TOYOTA TUNDRA / HV 2024 - REAR LIGHT BAR

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:	Look For:
<u>Accessory Function Checks</u> <input type="checkbox"/> Taillight turn on <input type="checkbox"/> Press on break <input type="checkbox"/> Left Turn <input type="checkbox"/> Right Turn <input type="checkbox"/> Hazard <input type="checkbox"/> Reverse <input type="checkbox"/> Left Turn & Break <input type="checkbox"/> Right Turn & Break <input type="checkbox"/> Reserve & Break <input type="checkbox"/> Reverse & Hazard	 Lightbar illuminated in red Lightbar illuminated in red (Brighter) Sequential Red on Left Bar Sequential Red on Right Bar Sequential Red on Both Bars Center Bar illuminated in white Sequential Left Red+ Right Red (Brighter) Sequential Right Red + Left Red (Brighter) Center White+ Red (Brighter) Center White + Sequential Red on both sides
<u>Vehicle Function Checks</u> <input type="checkbox"/> Vehicle 7-pin Tow Socket functions normal (make sure 7-pin connector is re-connected)	
<u>Vehicle Appearance Check</u> <input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process.