



## LED Fog Light

Year & Model	2018 – 2019 Camry
Part Number	261-TCA-818 (SE/XSE)
Accessory Code	
PIO / DIO	

### Conflicts

Note:	LE, XLE
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### General Applicability

<b>Fits Models</b>	
SE, XSE	

### Additional Items Required For Installation

Items	Description
1	N/A
2	

### Sequence of Application

Item	Description
1	N/A
2	

#### SPECIAL NOTE: Installation Sequences

After TMS & Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install & in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality

### Recommended Tools

<b>Safety Items</b>	
Safety Glasses	
<b>Special Tools</b>	
N/A	
<b>Installation Tools</b>	
10 mm Wrench	Pliers
Short Nylon Tool	Utility Knife
Torque Wrench	Snips
#2 Phillips screw driver	Fish Tool
<b>Special Chemicals</b>	
VPC Approved Sealant	

### Legend

	<b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.
	<b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury.
	<b>CAUTION:</b> 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.
	<b>TOOLS &amp; EQUIPMENT:</b> Used in Figures calls out the specific tools and equipment recommended for this process.
	<b>REVISION MARK:</b> This mark highlights a change in installation with respect to previous issue.
	<b>SAFETY TORQUE:</b> This mark indicates that torque is related to safety.

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**Kit/Hardware Bag Contents:**

Item #	Quantity	Description
1.	2	LED Fog Lights
2.	2	Trim Bezels
3.	1	In Dash Switch
4.	1	Under-Hood Wire Harness
5.	1	In-Dash Wire Harness
6.	6	Mounting Screws
7.	1	T-Harness
8.	1	Relay Box
9.	25	Wire Ties



Procedures:

Vehicle Disassembly/Installation Process



Figure 1

1. Remove the negative battery cable



Do not touch the positive terminal.



Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

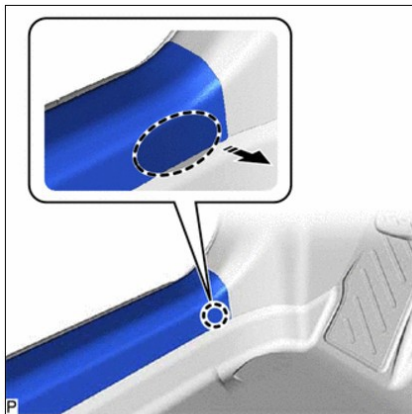


Figure 2

2. REMOVE FRONT DOOR SCUFF PLATE LH

- (a) Disengage the claw as shown in Figure 2.

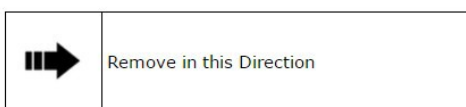
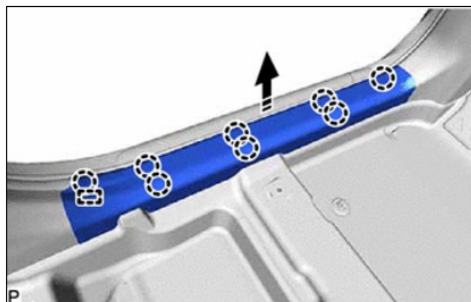


Figure 3

HINT: Use the same procedure for the front side and the rear side.

- (b) Disengage the 8 claws and guide to remove the front door scuff plate LH as shown in Figure 3.

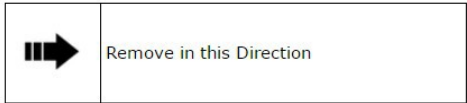
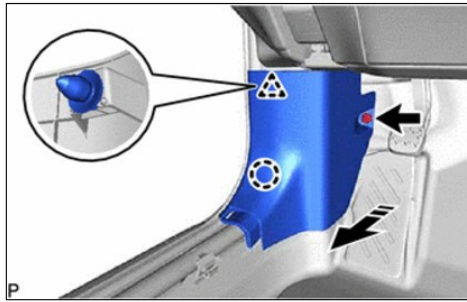


Figure 4

3. REMOVE COWL SIDE TRIM SUB-ASSEMBLY LH

(a) Remove the clip.

(b) Disengage the claw and clip to remove the cowl side trim sub-assembly LH as shown in Figure 4.

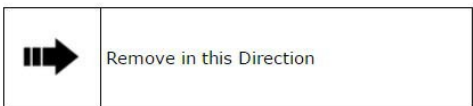
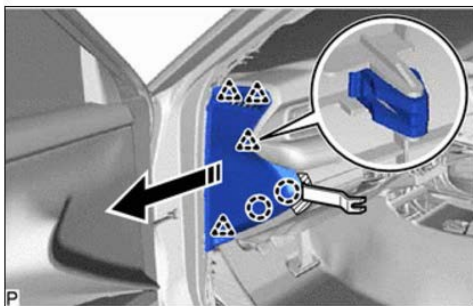


Figure 5

4. REMOVE INSTRUMENT SIDE PANEL LH

(a) Using a molding remover, disengage the 2 claws and 4 clips as shown in Figure 5.

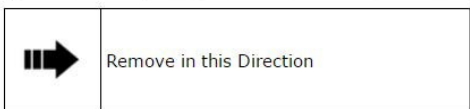
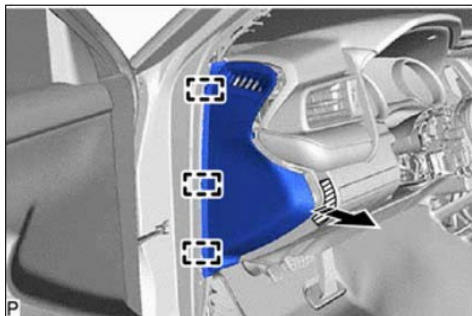


Figure 6

(b) Disengage the 3 guides to remove the instrument side panel LH as shown in Figure 6.

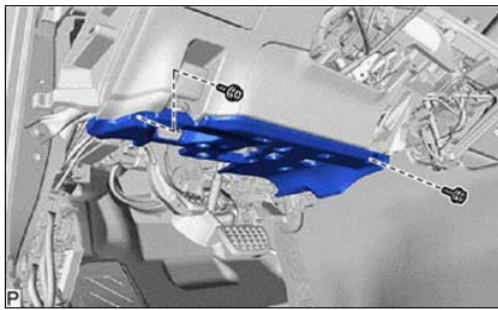


Figure 7

5. REMOVE NO.1 INSTRUMENT  
PANEL UNDER COVER SUB-  
ASSEMBLY

(a) Remove the 2 screws

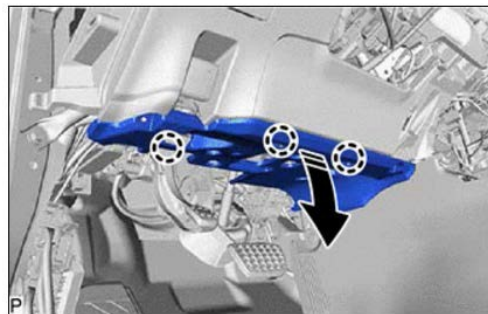


Figure 8

(b) Disengage the 3 claws as shown in  
Figure 8.

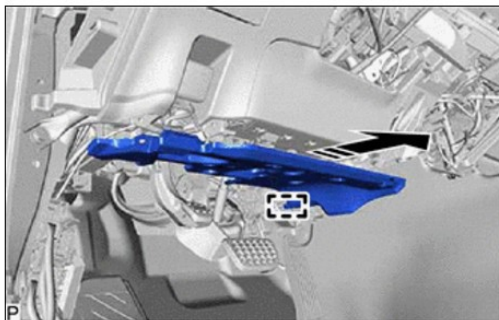


Figure 9

(c) Disengage the guide as shown in  
Figure 9.

(d) Disconnect the connector.

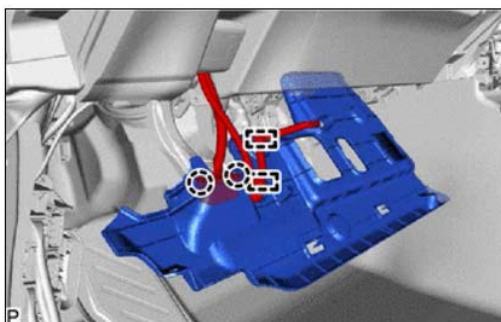


Figure 10

(e) Disengage the 2 claws to disconnect  
the DLC3 connector.

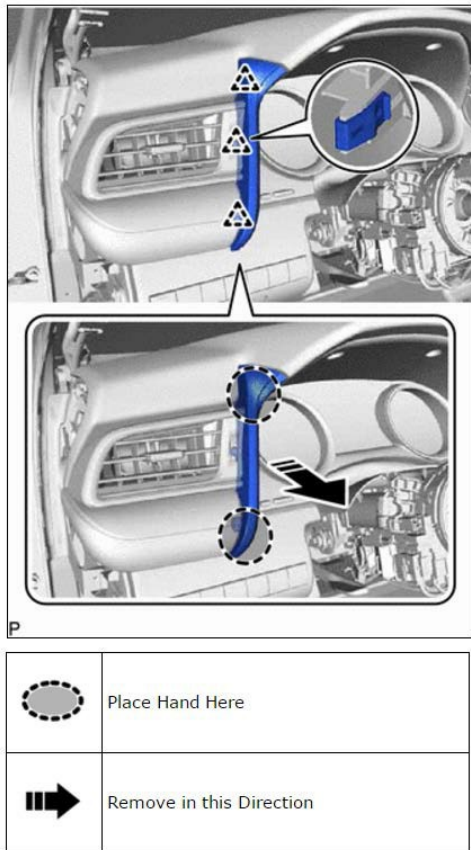


Figure 11

6. REMOVE NO. 2 METER HOOD CLUSTER

- (a) Disengage the 3 clips to remove the No. 2 meter hood cluster as shown in Figure 11.

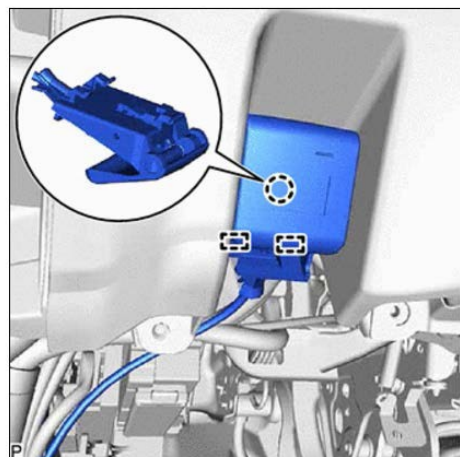


Figure 12

7. DISCONNECT HOOD LOCK CONTROL SUB-ASSEMBLY

- (a) Disengage the claw and 2 guides to disconnect the hood lock control lever sub-assembly.

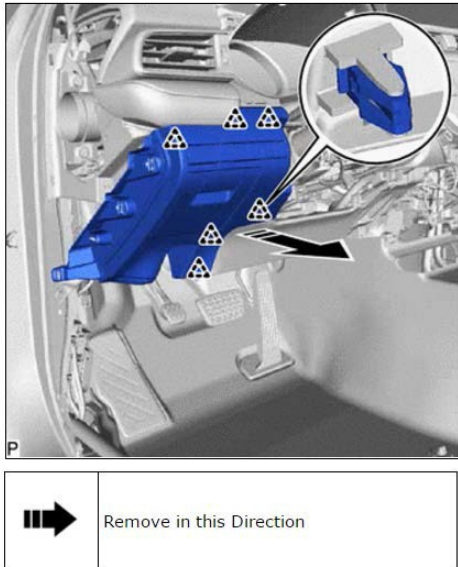


Figure 13



Figure 14

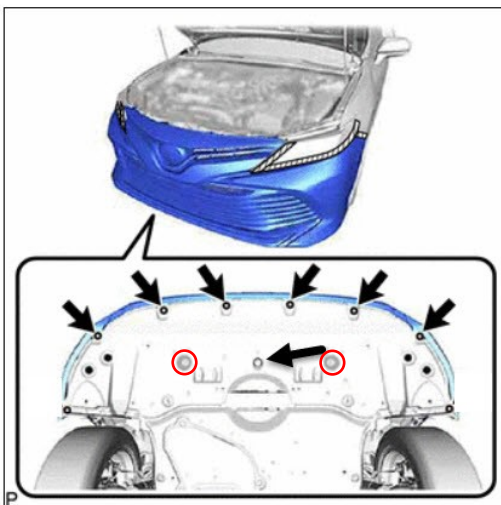


Figure 15

8. REMOVE THE NO. 1 INSTRUMENT PANEL SUB-ASSEMBLY

(a) Disengage the 6 clips as shown in Figure 13.

(b) Disengage the clamp.

(c) Disconnect each connector to remove the NO. 1 instrument panel sub-assembly.

9. Lift driver side carpet to gain access to floor drain plug. Remove plug and using a sharp blade cut an 'X' in the middle of the drain plug in order to route harness through.

10. Remove the seven screws and two clips under the front bumper cover and pull down (Figure 15).



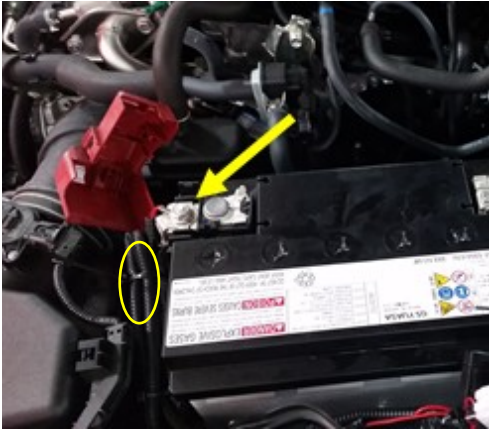


Figure 16

11. Attach positive, red, power wire ring terminal, to the positive battery terminal, wire tying the fuse to the positive factory battery cable (Figure 16).



Figure 17

12. Mount relay to factory harness as shown in Figure 17. Route T-Harness connector and light harnesses towards driver side headlight.



Figure 18



Figure 19

13. Disconnect factory headlight connector (Figure 19) and plug into supplied T-harness, plug other end of T-harness back into headlight (figure 19a).

**NOTE:** There are two different T-Harness available. The 8 Pin is used with LED headlights while the 6 Pin is needed for the Halogen headlights.



Figure 19a

14. Plug T-harness into main harness (Figure 20).

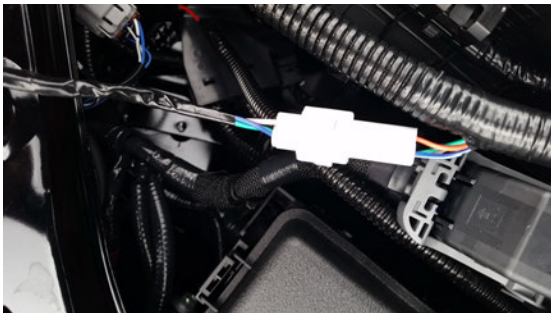


Figure 20

15. Route light harnesses down to driver side foglight location.



Figure 21

16. Route passenger side light harness across lower front of vehicle and tie wrap harness along lower radiator support brackets as shown in Figures 21 & 21a.



Figure 21a

17. REMOVE FOG LIGHT COVER LH  
(for Mesh Type Radiator Grille)

- (a) Disengage the 6 claws to remove the fog light cover LH (Figure 22).

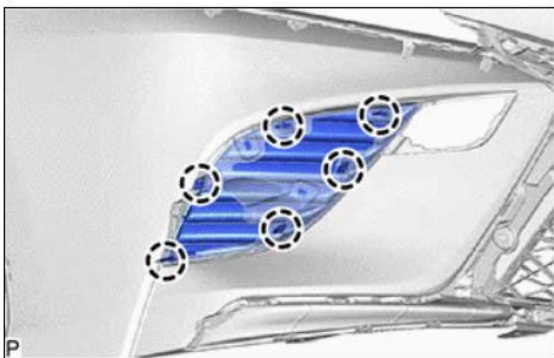


Figure 22

18. REMOVE FOG LIGHT COVER RH  
(for Mesh Type Radiator Grille)

**HINT:** Use the same procedure as for the LH side



Figure 23



Figure 24



Figure 25



Figure 26

19. Using the enclosed self-tapping screws mount both the fog lights to the factory bezels. Lights should be mounted from behind the bumper.

**NOTE:** There is a RH and LH light, indicated on the side of the mounting bracket with two holes. The adjustment screw should be located on the bottom so it can be accessed when lights are mounted.

20. Connect both lights to the harness pigtails and tie up excess harness length using two wire ties as shown in figure 23.

21. Remove the clips and bolts shown in Figure 24 to dislodge driver side inner front fender in order to route main harness.

22. Route switch harness from battery behind the fuse panel (in some instances the nut may have to be loosened in order to get harness in place, Figure 25) and through the fender as shown in Figure 26.



Figure 27

23. Attach harness to hood release cable found at the top of the inner fender well as shown in Figure 27.



Figure 28

24. Route harness inside inner fender well as shown in Figure 28.



Figure 29

25. Pull down driver side floor cover to route harness to floor drain plug as shown in Figure 29.



Figure 30

26. Make sure to tuck harness inside of plastic shields as shown in Figure 30 so that it is not exposed.



Figure 31



Figure 32



Figure 33



Figure 34

27. Route harness through drain plug and seal using approved silicone sealant (Figure 31).
28. Route harness along threshold towards kick panel and secure in factory retainer (Figure 32).
29. Route harness up to lower dash support behind switch panel. Plug in logic board and switch connector
30. Mount the logic board, and bundle the remaining harness as shown in Figure 33.
31. Remove the 2<sup>nd</sup> from the right, blank knockout found in the No. 1 instrument panel sub-assembly and insert the provided switch, making sure to orient it correctly with the indicator light at the top as shown in Figure 34.

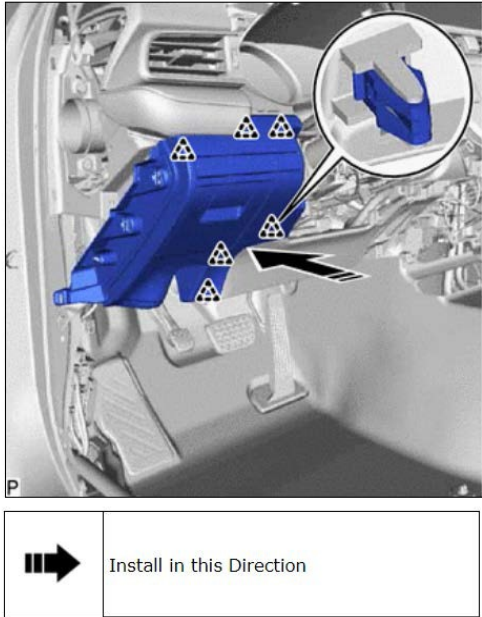


Figure 35

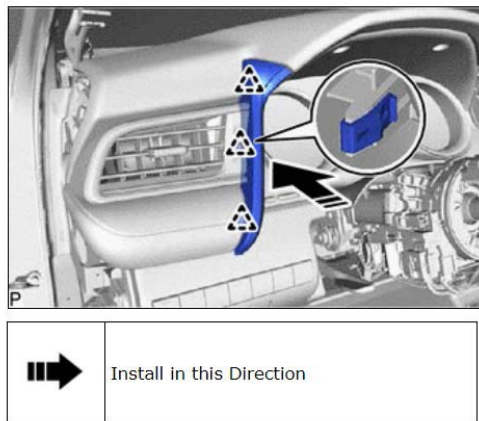


Figure 36

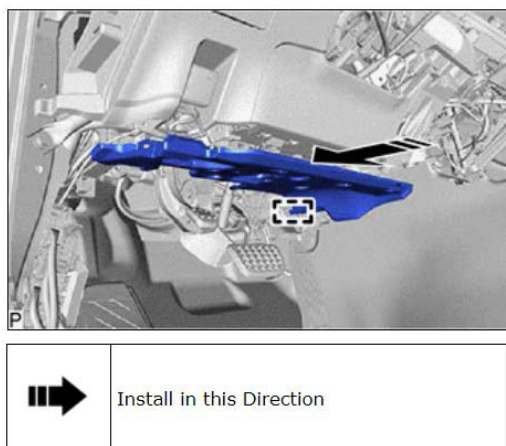


Figure 37

32. INSTALL NO. 1 INSTRUMENT PANEL SUB-ASSEMBLY
- (a) Connect each connector.
  - (b) Engage clamp.
  - (c) Engage the 6 clips to install the No. 1 instrument panel sub-assembly as shown in Figure 35

33. CONNECT HOOD LOCK CONTROL LEVER SUB-ASSEMBLY
- (a) Engage the claw and 2 guides to connect the hood lock control lever sub-assembly.

34. INSTALL NO. 2 METER HOOD CLUSTER
- (a) Engage the 3 clips to install the No. 2 meter hood cluster as shown in Figure 36.

35. INSTALL NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY
- (a) Engage the 2 claws to connect the DLC3 connector.
  - (b) Engage the 2 clamps.
  - (c) Connect the connector.
  - (d) Engage the guide as shown in Figure 37.

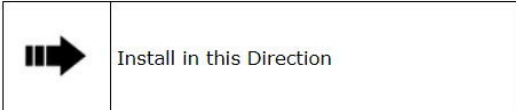
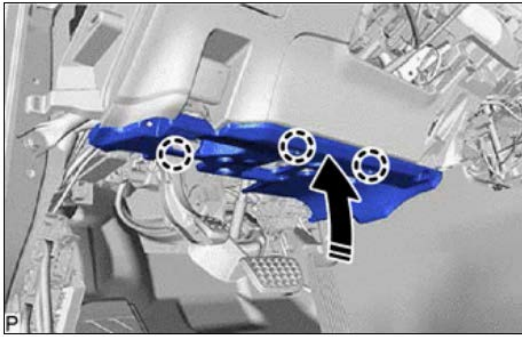


Figure 38

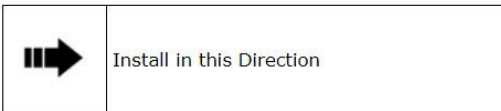
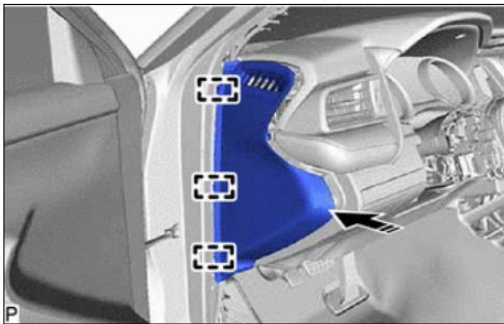


Figure 39

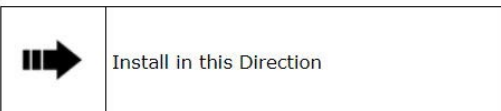
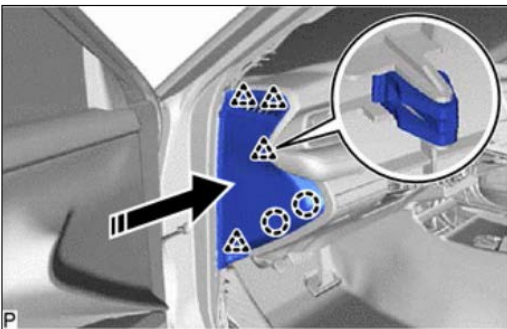


Figure 40

(e) Engage the 3 claws shown in Figure 38.

(f) Install the No. 1 instrument panel sub-assembly with the 2 screws <c>.

36. INSTALL INSTRUMENT SIDE PANEL LH

(a) Engage the 3 guides as shown in Figure 39.

(b) Engage 4 clips and 2 claws to install the instrument side panel LH as shown in Figure 40.

37. INSTALL COWL SIDE TRIM SUB-ASSEMBLY LH

38. INSTALL FRONT DOOR SCUFF PLAET LH

39. Install removed hardware from under floor covering LH.

40. Adjust Fog lights according to following page.

41. Attach fog light trim bezels by snapping into place.

42. Install removed hardware from front bumper cover.

43. Reinstall negative battery terminal including ground ring terminal for fog lights.



### Fog Light Aiming

1. To adjust lamps, adjust screw from below vehicle: refer to Figure 41.

Adjust the aim of each fog light to the specified range by turning the aiming screw with a screwdriver.

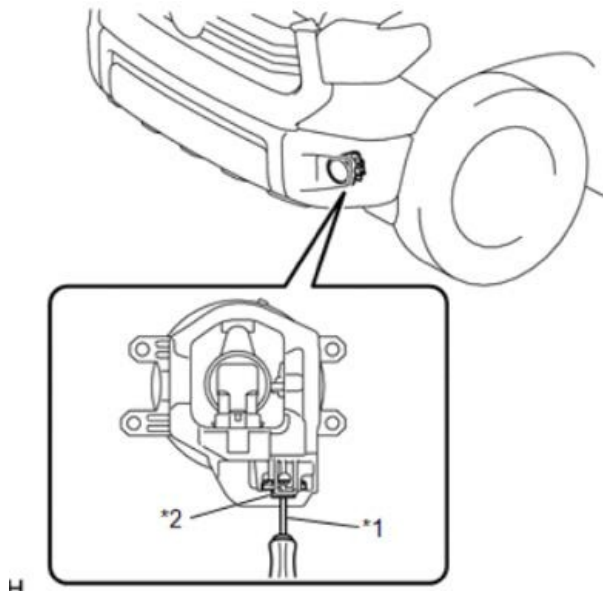


Figure 41

**⚠ NOTE:** Use only hand tools to adjust the fog light aiming screw. DO NOT use automatic tools, as they will damage the fog light

Traditional fog lights are usually mounted in the front bumper about 10-24 inches from the ground. There are two important issues to address when installing fog lights: the first is to minimize the amount of return glare into the driver's eyes, and the other is to minimize the glare into oncoming eyes. Both of these issues must be accomplished while putting as much light as possible on the road.

These fog weather light aiming instructions are suggestions taken from common practice and the S.A.E. standard J583. Some modifications to these instructions may be necessary to minimize glare.

Visual aim is made with the top of the beam 4 inches below the lamp center at 25 feet with the lamp facing straight forward (see figure 42).

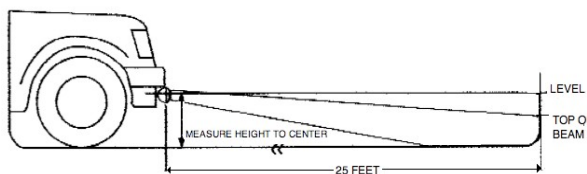


Figure 42

**Functions and Quality Check**

1. Turn on headlamp low beams, then press fog light switch to “ON” position. Fog lights should be working. Fog lights will only work when the low beam headlamps are “ON”. Fog lights will NOT work when the high beam headlamps are “ON”.

<b>Check</b>	<b>Look For</b>
Accessory Function Checks	
<input type="checkbox"/> Fog Light function .....	- Inoperable Fog Light Function
<input type="checkbox"/> All Panels snapped into place .....	- Loose panels and switches
<input type="checkbox"/> Battery terminal.....	- Re-torque battery terminals to 48 in-lb
<input type="checkbox"/> Operation guide.....	- Place Fog Light operation guide inside glove box
Vehicle Function Checks	
<input type="checkbox"/> Check all vehicle functions .....	