

TOYOTA

TACOMA

2013 -

FOG LIGHT

Part Number: 00016-35220

Accessory Code: LF10



Conflicts

- Factory Fog Lights

Kit Contents

Item #	Quantity Req'd.	Description
1	2	Fog Lamps
2	1	Hardware bag
3	1	Switch Assembly
4	1	Fog light operation guide

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	Wire harness
2	1	Switch harness
3	2	SPST Relays
4	15	Wire ties
5	3	T-Taps
6	1	Fuse w/connectors
7	1	Diode adapter (See Note: pg. 4)

Additional Items Required For Installation

Item #	Quantity Req'd.	Description

Recommended Tools

Safety Tools	
Safety Glasses	
Electrical Tape	
Installation Tools	
10mm Wrench	
Phillips Screw Driver	
Pliers	
Side Cutters	
Torque Wrench	
Special Chemicals	
3M Silicon Sealant	

Parts List

Service Part Part Number	Fog Light Housing LH	Fog Light Housing RH	Switch	Wire Harness	Relay
00016-08401-03	X				
00016-08401-04		X			
00016-32230-02			X		
00016-35220-01				X	
00016-32105-04					X

General Applicability


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Recommended Sequence of Application


Item #	Accessory
1	
2	
3	


Mandatory


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

 **CRITICAL PROCESS:** Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation

 **TOOLS & EQUIPMENT:** This calls out the specific tools and equipment required for this process

 **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

SPECIAL NOTE:
After TMS and 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 and 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. Also some items listed to be removed may not need to be removed if caution is taken to not damage vehicle.

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 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)
- Vehicle Disassembly / Reassembly (panel removal, part storage, etc)

Preparation



Remove negative battery cable



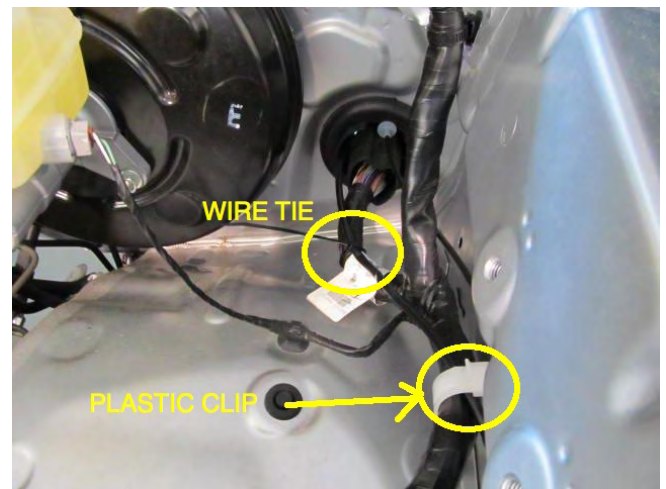
Installation

1. Remove battery bracket and slide the battery towards the engine.
2. Attach the ring terminal with 2 black wires to the 10mm factory ground bolt at driver's side vehicle panel, next to battery (picture 1)



Picture 1

3. Route fog light's wire harness from battery to large vehicle grommet. Secure with wire ties (picture 2)



Picture 2: Note: run wire harness through the plastic clip

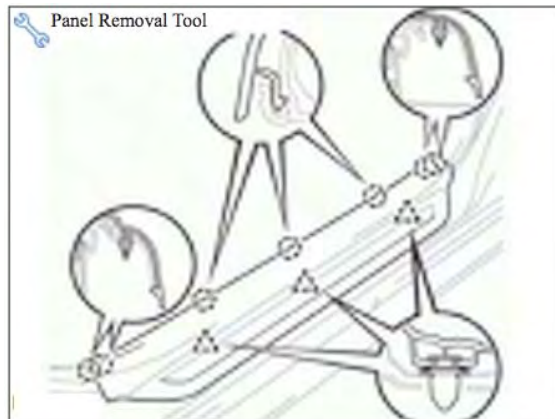
4. Locate the large vehicle harness grommet on the left side. If accessible, cut the auxiliary wiring access nipple off the grommet or cut 1/4" slit in grommet. Secure excess wires with wire ties to fuse block wire harness. Push the two red and gray/white wires through firewall. **Note:** Extra caution should be taken not to damage the connectors. Seal with 3M Silicone sealant (picture 3)



Picture 3

Vehicle Disassembly

- Remove driver side door scuff plate. Disengage with panel tool and remove (picture 4 and 5)



Picture 4



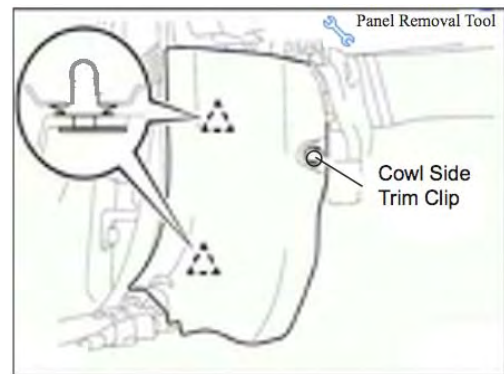
Picture 5

- Remove the foot rest on the driver side (picture 6)



Picture 6

- Remove kick panel on the driver side (picture 7 and 8)

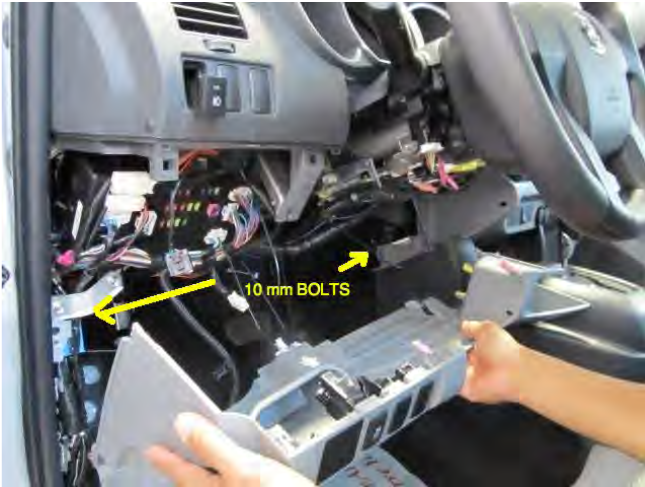


Picture 7



Picture 8

- Remove the lower finish panel by removing two 10 mm bolts (picture 9)



Picture 9

9. Remove hood latch and connectors (pic 10)



Picture 10

10. Pull top panel forward and remove dash switch plug (picture 12)



Picture 12

11. From inside the cabin, locate the wires that were pushed through in step 5. It will be the grommet above the emergency brake pedal (picture 13)

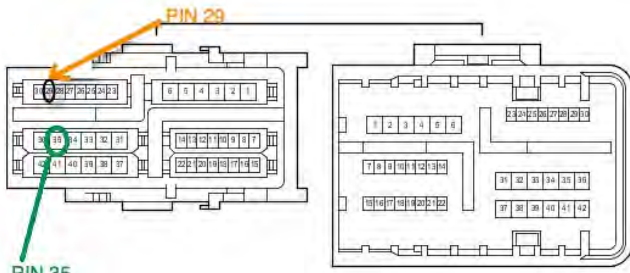


Picture 13

12. Connect the diode adapter to the orange/black wire of the fog light harness.

Note: Fog light kits with date code prior to 2/1/2013 require the use of a diode adapter that connects to the orange/black wire of the fog light harness. Fog light kits with date code after 2/1/2013 the diode is already incorporated into the fog light harness

13. T-tap orange/black wire (with the diode adapter installed) from fog light harness to connector IA-1 pin 29, white wire. Connector IA-1 is located in the upper kick panel area (pictures 14 and 15)
14. T-Tap the green/black wire from fog light harness to connector IA-1, pin 35, red-black wire (picture 14 and 15)



Picture 14

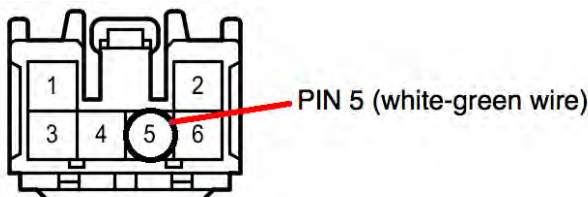


Picture 15: diode adapter circled in yellow

- Secure the supplied yellow T-Tap to the white-green wire of connector 1A, pin 5. Connector 1A is next to the fuse block (picture 16 and 16A)

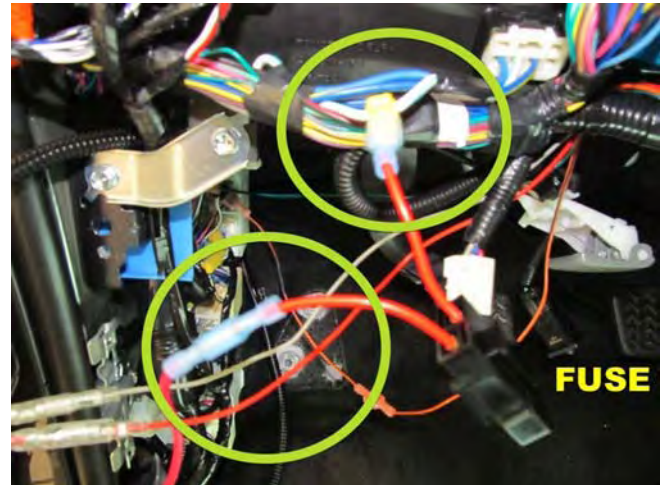


Picture 16: showing yellow t-tap



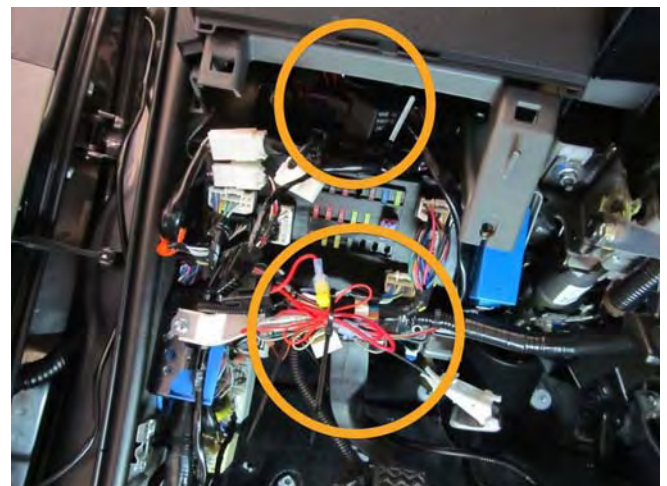
Picture 16A

- Connect the red and gray/white wires with bullet connectors from outside harness to inside harness red and gray/white wires. Connect the 14 gage red wire from fog light harness to the supplied fuse. Connect the other end of the fuse to the yellow t-tap installed in step 16 (picture 17)



Picture 17

- Secure fog light wire and relay with wire ties. Run wire to switch location on finish panel and secure any excess wire with wire ties (picture 18)



Picture 18

- Pull switch wire harness through switch opening. Connect switch and then install switch into panel (picture 19 and 19A)



Picture 19



Picture 19A

- 19. Reinstall dash panels and reconnect cables and connectors.

ENGINE COMPARTMENT

- 20. Drop fog light harness down on left side of vehicle (picture 20)

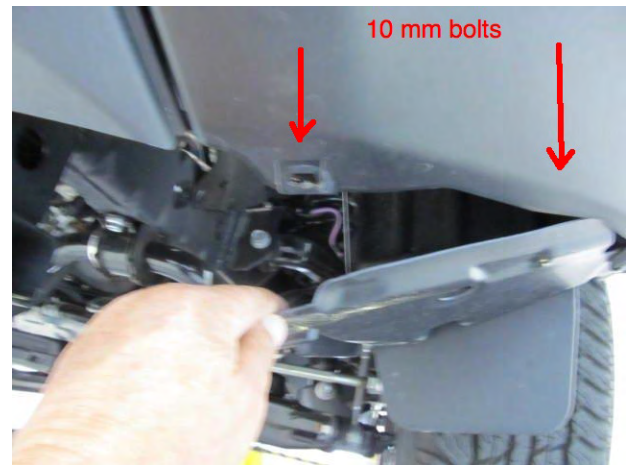


Picture 20

- 21. Remove push-pin on the fender liner and two 10 mm bolts under the fender liner. Pull fender liner back to access fog light area (pictures 21 and 21A)



Picture 20



Picture 21A

- 22. Remove fog light bezel cap and discard it. Save screws for next step (picture 22)



Picture 22

23. Insert one side of the fog light into the plastic sleeve through the open fender and secure other side with removed factory Phillips screws (picture 20). Repeat this step for left and right fog lamps

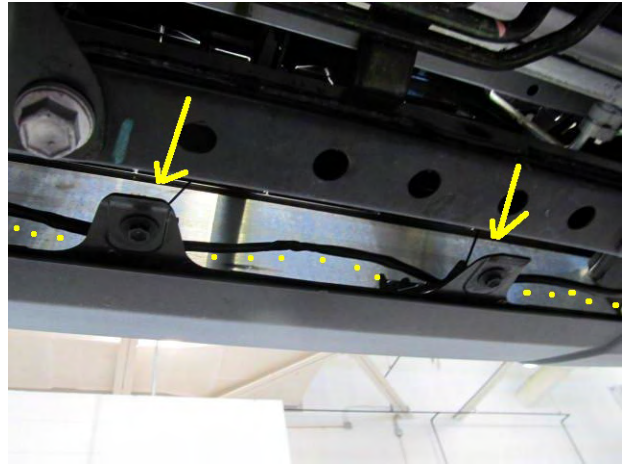


Picture 23



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

24. Plug in left side fog light into harness plug and secure with wire ties
25. Run harness to right fog light and secure with wire ties at bumper mount locations (pictures 24 and 24A)



Picture 24



Picture 24A

26. Plug in right fog light harness into fog light
27. Reinstall lower splash shield and wheel liner
28. Put battery in position and reinstall battery bracket
29. Reconnect negative battery cable and torque to 48 in-lbs

Checklist – these points MUST be checked to ensure quality installation

Check System for Operation

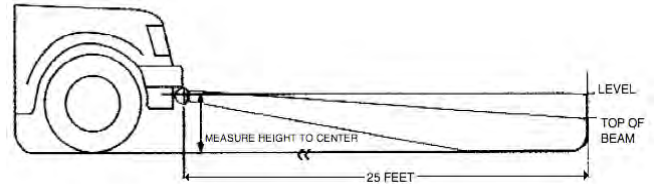
1. Reconnect battery terminals
2. Turn on headlamp low beams, then press fog light switch to “ON” position. Fog lights should be working. Fog lights will only work when the low beam headlamps are “ON”. Fog lights will NOT work when the high beam headlamps are “ON”

Fog Light Aiming

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 drivers 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 picture 25)



Picture 25

Check

Accessory Functions Checks

- Fog Lights function.....
- All Panels snapped into place.....
- Fog Lights.....
- Battery Terminal.....

Vehicle Function checks

- Check functions all switch functions

Look For:

.....

Loose panels and switches

Visually confirm lights are straight forward

Re-torque battery terminals to 48 in-lb

Place fog light operation guide inside glove box.

VEHICLE FUNCTION CHECK

AFTER ALL PANELS, COVERS AND COMPONENTS THAT WERE REMOVED HAVE BEEN REINSTALLED, TEST THOROUGHLY ALL MECHANICAL AND ELECTRICAL COMPONENTS DISCONNECTED AND/OR REMOVED FROM THE VEHICLE DURING THE INSTALLATION OF THIS ACCESSORY