TOYOTA SIENNA 2013- FOG LIGHT

Part Number: 00016-08401
Accessory Code: LF10

TOYOTA
Southeast Toyota Distributors, LLC

Conflicts

- Factory Fog Lights

Kit Contents

Item #	Quantity Reqd.	Description
1	2	Fog Lamps
2	2	Fog LampÕs bezels
3	1	Switch Assembly
4	1	Fog light operation guide

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1	Wire harness
2	1	Switch harness
3	2	SPST Relays
4	15	Wire ties
5	2	Phillip head screws
6	2	3M T-Taps

Additional Items Required For Installation

Item #	Quantity Reqd.	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	

Color Applicability/Trim Level

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

General Applicability

Models 5312, 6314, 5328, 5336, 5338, 5366

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.

SPECIAL NOTE: Installation Sequences

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.

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

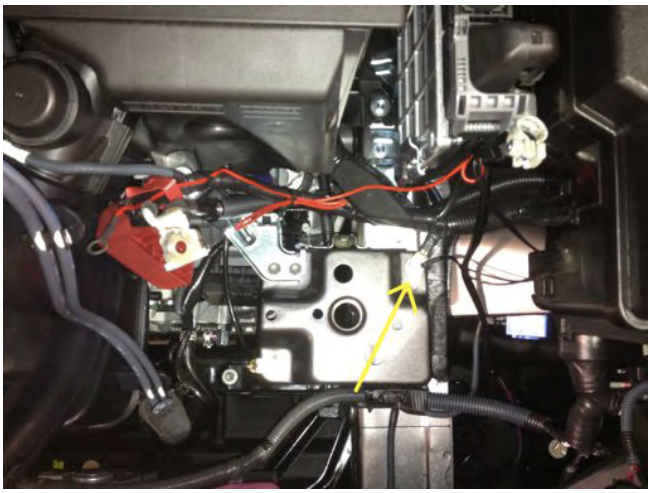
Remove battery from vehicle (Optional step) negative battery cable.

Installation

1. Remove battery tray. Secure the relay and fuse to negative battery cable. Secure top and bottom with wire ties (picture 1).

Picture 1

2. Attach the ring terminal with 2 black wires to the 10mm ground bolt below the battery (picture 2)

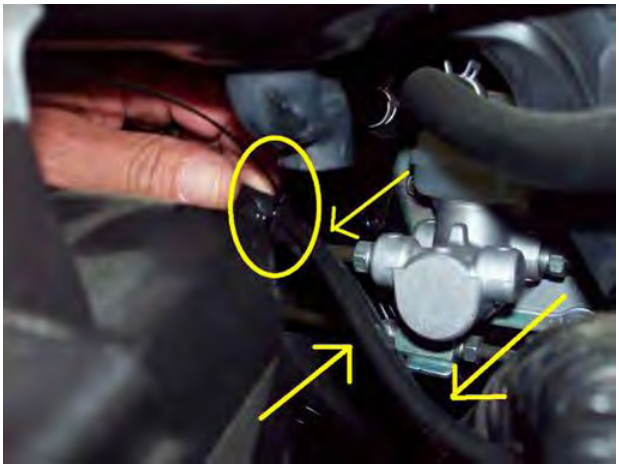


Picture 2

3. Connect the ring terminal from the relay (12v red wire) routing it through positive red terminal cover (picture 3)

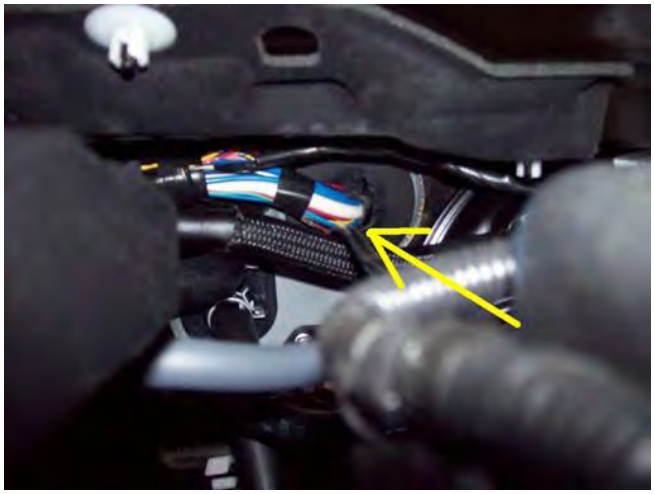
Picture 3

4. Route wire to large vehicle grommet and secure with wire 3 wire ties (picture 4)



Picture 4

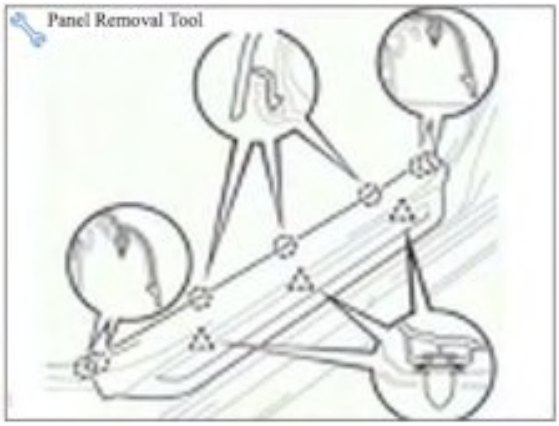
5. Locate the large vehicle harness grommet on the left side. If accessible, cut the auxiliary wiring access nipple off the grommet or cut ¼" slit in grommet. Secure excess wires with wire ties to fuse block wire harness. Push the red and gray/white wires through firewall. Note: Extra caution should be taken not to damage the bullet connectors. Seal with 3M Silicone sealant (picture 5)



Picture 5

Vehicle Disassembly

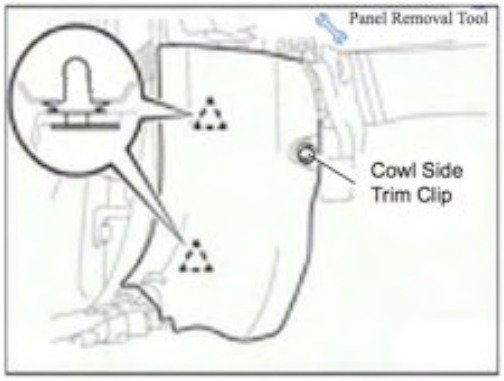
6. Remove driver side door scuff plate. Disengage with panel tool and remove (picture 6 and 6A)



Picture 6

Picture 6A

a. Remove the driver side cowl side trim (picture 6). Unscrew the cowl side trim clip. Disengage two (2) clips and remove the cowl side trim (picture 7)

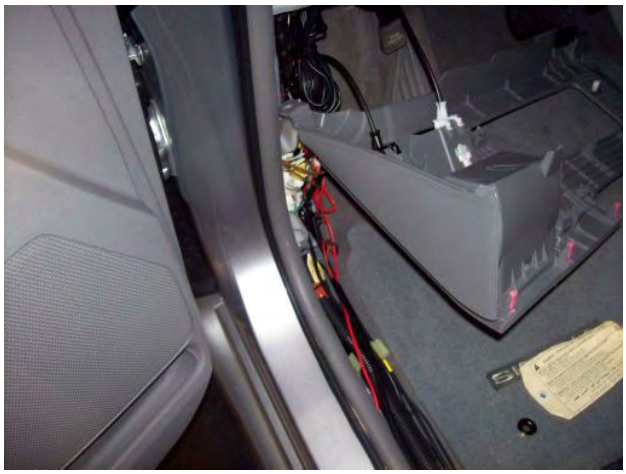


Picture 7

7. Remove the finish panel covering the knee airbag (picture 8)

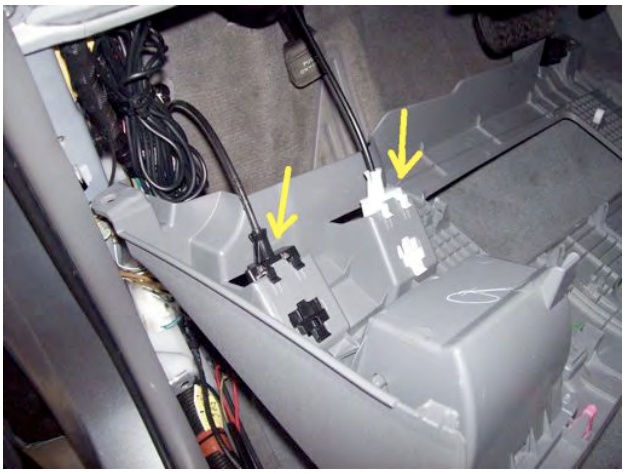
Picture 8

8. Remove the lower finish panel (picture 9)



Picture 9

9. Remove hood latch and gas door cables (see picture 10)



Picture 10

10. Remove switch panel left of steering wheel (picture 11)

Picture 11

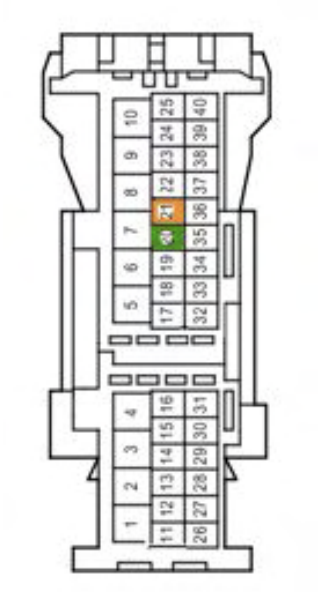
11. Remove far right dash panel switch plug
12. Install switch into switch knockout (picture 12)

Picture 12

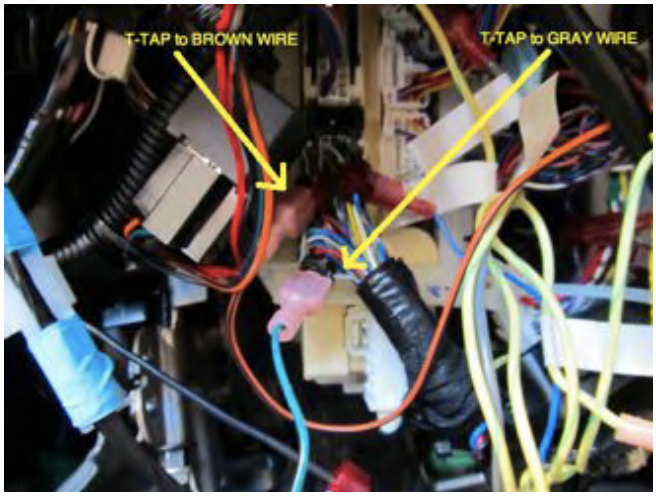
13. From inside the cabin, locate the wires that were pushed through in step 5. It will be the grommet above the gas pedal (picture 13)

Picture 13

14. T-tap green/black wire from fog light harness to connector 2F pin 20, gray wire. Connector 2F is located by the main junction block (pictures 15 & 16)
15. T-tap orange/black wire from fog light harness to connector 2F pin 21, brown wire (pictures 15 &16)

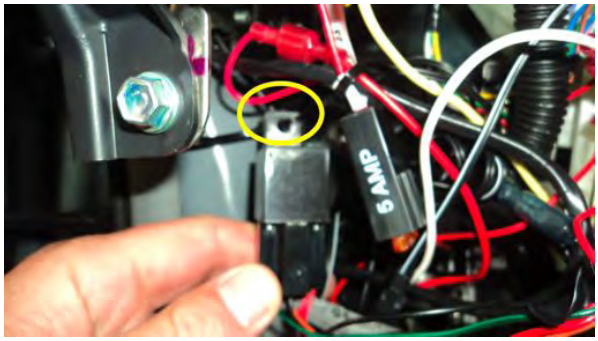


Picture 15



Picture 16

16. 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 17)



Picture 17

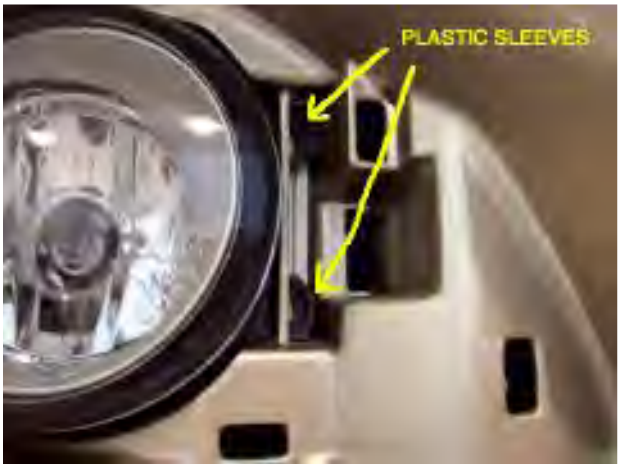
17. Connect switch harness to switch
18. Reinstall dash panels and reconnect cables

ENGINE COMPARTMENT

19. Drop fog light harness down on left side of vehicle
20. Loosen part of lower splash shield with 6x10mm bolts and 4 push pins and remove fog light cover plates (picture 18)

Picture 18

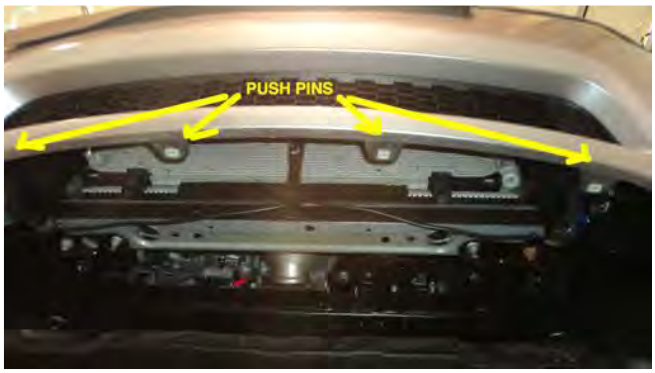
21. Insert one side of the fog light into the plastic sleeve and secure other side with supplied Phillip screws (see picture 19). Repeat this step for left and right fog lamps



Picture 19

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

22. Plug in left side fog light into harness plug and secure with wire ties
23. Run harness to right fog light and secure with 3 wire ties (picture 20)



Picture 20

24. Plug in right fog light harness into fog light
25. Snap on both fog light bezels
26. Reinstall lower splash shield
27. Re-install battery, bracket & assembly, if applicable. Reconnect battery negative terminal at 48 in -lbs. Reconnect battery positive terminal nut at 48 in -lbs, if applicable.

Checklist – these points MUST be checked to ensure quality installation

Check System for Operation

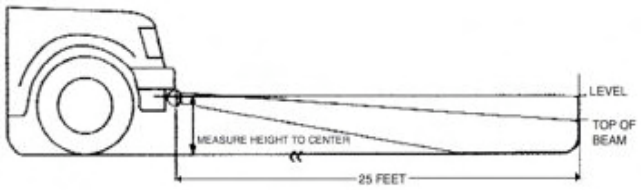
1. Reconnect battery terminals
2. Turn on headlamp low beams, then press fog light switch to “ON” position. Fog lights should be working. Fog lights will only work when the low beam headlamps are “ON”. Fog lights will NOT work when the high beam headlamps are “ON”

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 23)



Picture 23

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 THROUGHLY ALL MECHANICAL AND ELECTRICAL COMPONENTS DISCONNECTED AND/OR REMOVED FROM THE VEHICLE DURING THE INSTALLATION OF THIS ACCESSORY