

TOYOTA

PRIUS V

2012 -

FOG LIGHT

Part Number: 00016-47650

Accessory Code: LF10



**Conflicts**

NONE
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**Kit Contents**

Item #	Quantity Req'd.	Description
1	2	Fog Lamps
2	2	Fog Lamp's bezels
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	Relays
4	21	Wire ties
5	4	Phillip head screws
6	2	T-Taps

**Additional Items Required For Installation**

Item #	Quantity Req'd.	Description

**Recommended Tools**

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

**Color Applicability/Trim Level**

Service Part / Part Number	Fog Light Housing LH	Fog Light Housing RH	Switch	Wire Harness	Relays	Bezel LH	Bezel RH
00016-08401-04	X						
00016-08401-03		X					
00016-32230-02			X				
00016-47401-03				X			
00016-32105-04					X		
00016-47650-06						X	
00016-47650-07							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

1. Remove rear deck board (picture 1)



Picture 1

2. Remove floor tray (picture 2)



Picture 2

3. Remove small tray rear passenger-side covering battery (picture 3)



Picture 3

4. Disconnect negative battery cable using a 10mm wrench (no not touch positive terminal with any tool when removing cable)



Picture 4

5. Locate the ECU mounting bracket on the top left corner of the fuse block, right of the brake fluid reservoir (picture 5)



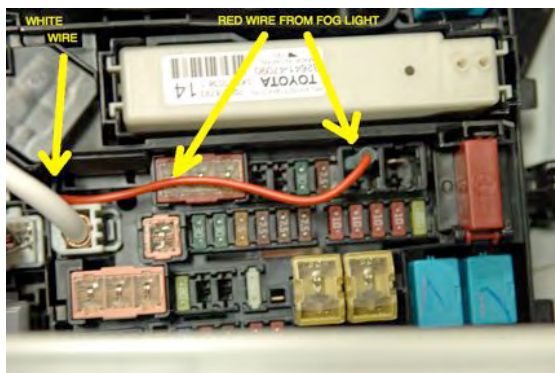
Picture 5

6. Attach the ring terminal with 2 black wires to the 10mm bolt off the ECU bracket (see picture 6)



Picture 6

7. In the hood area, locate the red 12v wire from fog light harness to inside the fuse block. Follow the path of the big white wire. 12v red wire will be connected at the end of the installation (picture 7)



Picture 7

8. Wire tie relay and fuse holder to harness (picture 8)



Picture 8

9. Route wire along factory harness and secure with wire ties (picture 9)



Picture 9

10. 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 and push the orange/black and green/black wires through firewall. Note: Extra caution should be taken not to damage the factory harness and connectors. Seal with 3M Silicone sealant

**Vehicle disassembly**

11. Pull the left top side of the panel away from dashboard and unplug connectors. Extra caution should be taking not to pull to hard and damage connectors (picture 10)



Picture 10

12. Remove 2 screws and push back on tabs to release lower panel (picture 11)



Picture 11

13. Unplug wire harness and remove panel by pulling it towards the seat (picture 12)



Picture 12

14. Remove plastic cap from switch knockout of dash
15. Install switch in empty knockout of dash (picture 13)



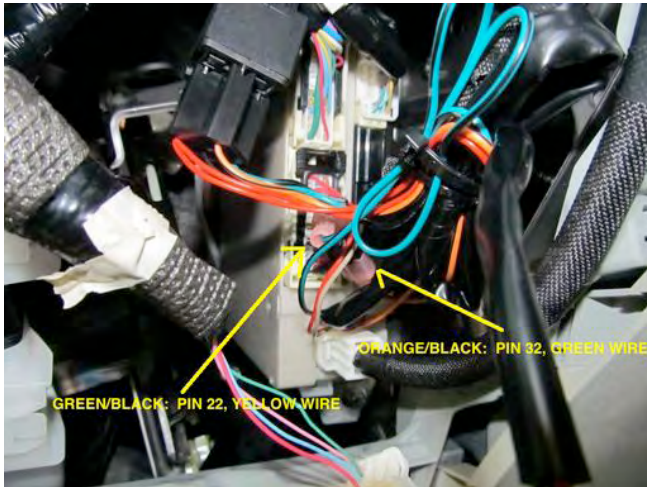
Picture 13

16. From inside the cabin, locate the wires that were pushed through in step 6 and plug them to the switch wire harness. It will be the grommet above the gas pedal (pic. 14)

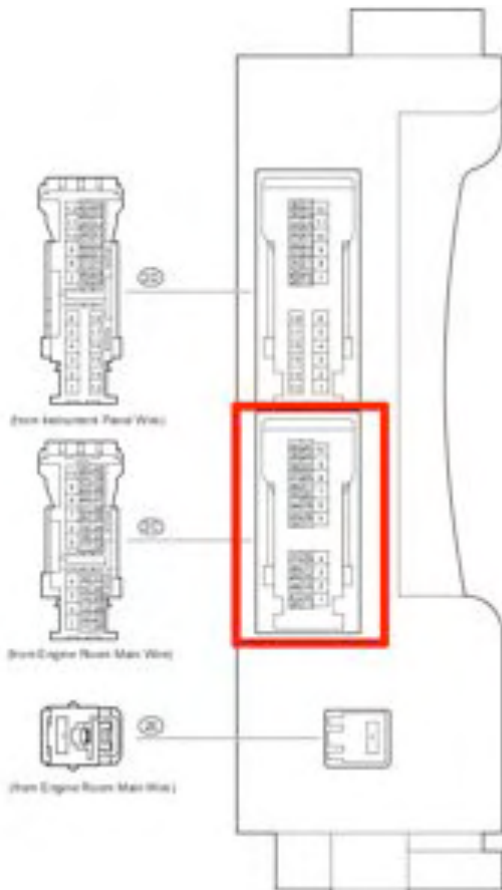


Picture 14

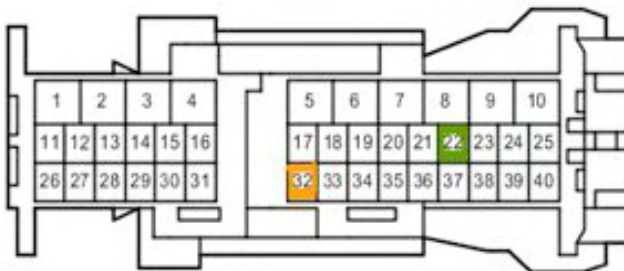
17. T-tap orange/black wire from fog light harness to connector 2C pin 32 green wire. Pin 32 is on the left side of the connector 7<sup>th</sup> pin up from bottom of the connector. Connector 2C located left of the steering column above big white wire (pictures 15, 16 & 17)
18. T-Tap green/black wire from fog light harness to connector 2C pin 22, yellow wire (pictures 15, 16 & 17)



Picture 15



Picture 16



Picture 17: Pin side view

- 19. Install switch harness into switch
- 20. Secure fog light wire harness and relay with wire ties (picture 18)



Picture 18

- 21. Reinstall all removed panels

**ENGINE COMPARTMENT**

- 22. Remove splash shield from the front of the car (picture 19)



Picture 19

- 23. On the driver side, route the fog light wire under car
- 24. Remove fog lamp covers
- 25. Insert one side of the fog light into the plastic sleeve and secure other side with

supplied Phillip screws (picture 20). Repeat this step for left and right fog lamps



Picture 20



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

26. Plug in left side fog light into harness plug and secure with wire ties
27. Run right side of wire harness under skid plate and secure with wire ties (picture 21, 22 and 23)



Picture 21



Picture 22



Picture 23

28. Plug in right fog light into harness plug and secure with wire ties to factory wire harness
29. Snap on both fog light bezels (picture 24)



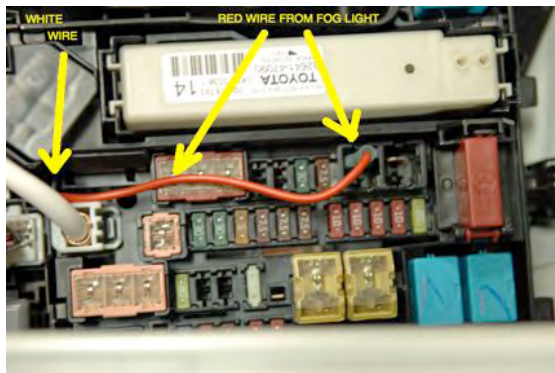
Picture 24

30. On the driver side, secure excess wire harness with a wire tie (picture 25)



Picture 25

- 31. Reattach the lower splash shields
- 32. Attach fog light 12v red wire to open spade inside the fuse block. Open spade is located right above white wire (picture 26)



Picture 26

- 33. Reconnect negative battery cable (48 in-lb)

## Check System for Operation

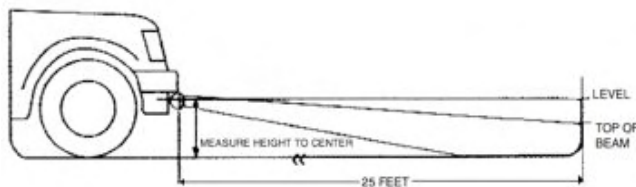
1. Reconnect battery negative terminal
2. Turn on headlamp low beams, then press fog light switch to "ON" position. Fog lights should be working. Fog lights will only work when the low beam headlamps are "ON". Fog lights will NOT work when the high beam headlamps are "ON"

## 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 32)



Picture 32

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



**Checklist** – these points MUST be checked to ensure quality installation

**Check**

Accessory Functions Checks

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

Vehicle Function checks

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- Check functions all switch functions

**Look For:**

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Confirm fog lights turn off if headlights are turned off with remote or 30 seconds delay with headlight switch left in "ON" position.

Loose panels and switches

Visually confirm lights are straight forward

Re-torque battery terminals to 36 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