

Part Number: 00016-47160

Accessory Code: LF10



Conflicts

NONE

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

Safety Tools	
Safety Glasses	
Electrical Tape	
Installation Tools	
10mm Wrench	
Phillips Screw Driver	
Pliers	
Side Cutters	
Torque Wrench	48in lbs
Special Chemicals	
3M Silicon Sealant	

Color Applicability/Trim Level

Service Part	Fog Light Housing LH	Fog Light Housing RH	Switch	Wire Harness	Relays	Bezel LH	Bezel RH
Part Number							
00016-32105-02	X						
00016-32105-01		X					
00016-32230-02			X				
00016-47160-01				X			
00016-32105-04					X		
00016-47160-02						X	
00016-47160-03							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:

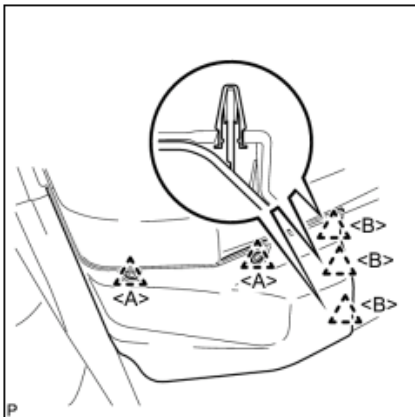
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc)
- Safety (eye protection)
- Vehicle Disassembly / Reassembly (panel removal, part storage, etc)

Preparation



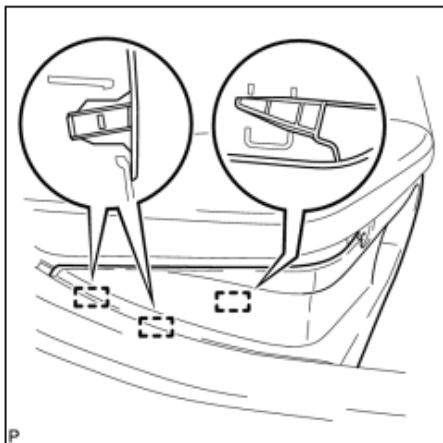
Remove battery from vehicle (Optional step) negative battery cable.

1. Remove the rear seat front floor covers:
 - a. On the driver side of vehicle, using a clip removal tool, remove the 2 clips <A>. Disengage the 3 clips



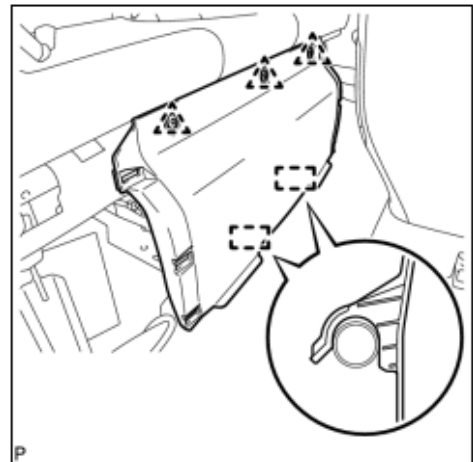
Picture 1

- b. Disengage the 3 guides and remove the front floor cover LH



2. Repeat step 1 for right side front floor cover
3. Remove front center floor cover
 - a. Using a clip removal, remove the 3 clips
 - b. Disengage the 2 guides and remove cover

Picture 2



Picture 3

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



Picture 4

- Next to left fender of vehicle, secure the ring terminal with two black wires to the 10mm ground bolt attached to the frame of vehicle (picture 5)



Picture 5

- Using wire ties, secure fog light wire to vehicle wire harness (picture 6)



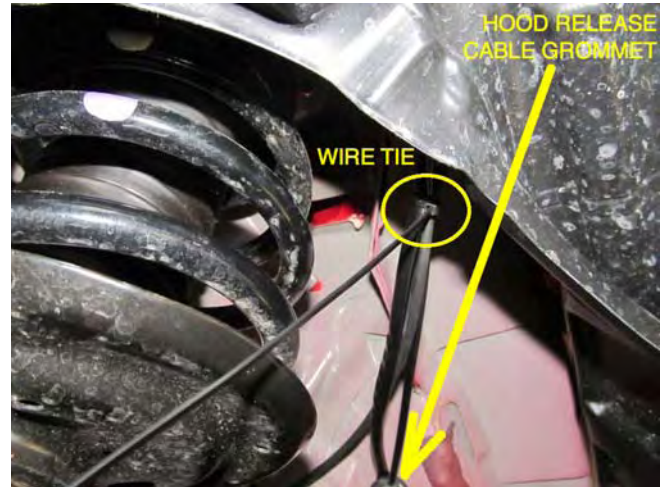
Picture 6

- Remove two push pins on the front left fender liner, and pull back (picture 7)



Picture 7

- Route the wire harness following the path of the hood release cable: from engine compartment through wheel well (picture 8)

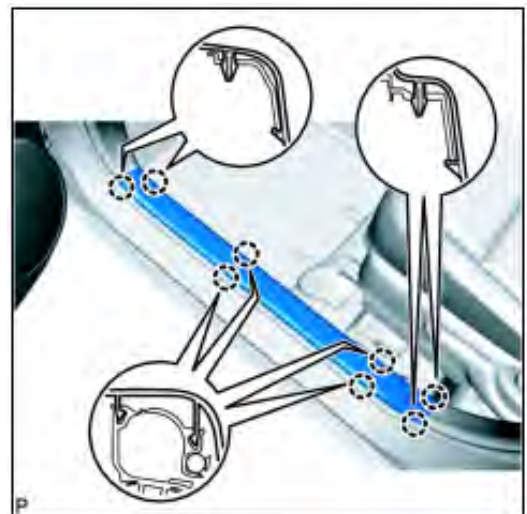


Picture 8

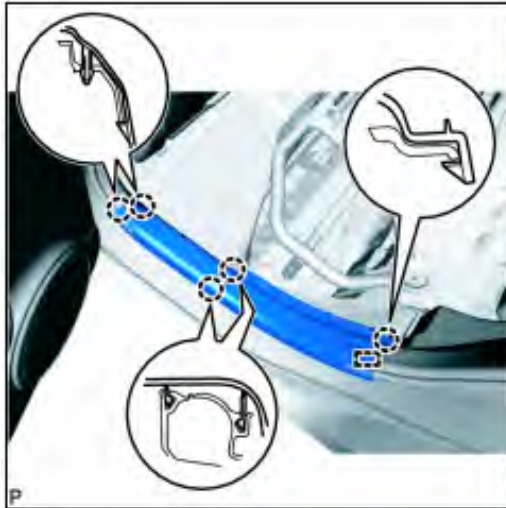
- Locate the hood release cable grommet behind fender liner. Cut a 1/4" slit in grommet and push the red, gray/white and red (16 ga.) wires through firewall. Note: Seal with 3M Silicone sealant

Vehicle disassembly

- Remove driver side front and rear door scuff plates. Disengage with panel tool and remove (see pictures 9 and 9A)

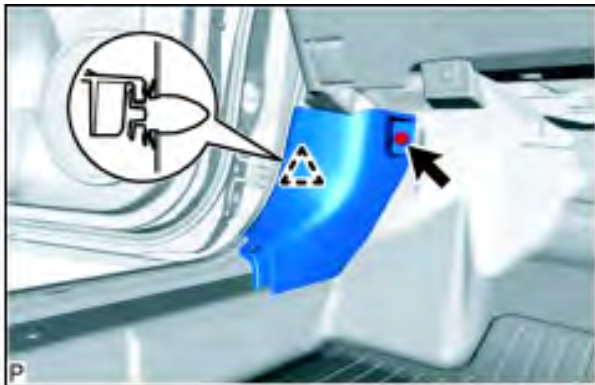


Picture 9: Front LH scuff plate



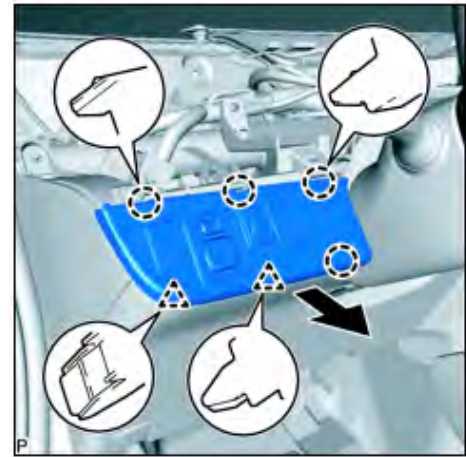
9A: Rear LH scuff plate

11. Remove the driver side cowl side trim: disengage clip and nut to remove the cowl side trim (picture 10)

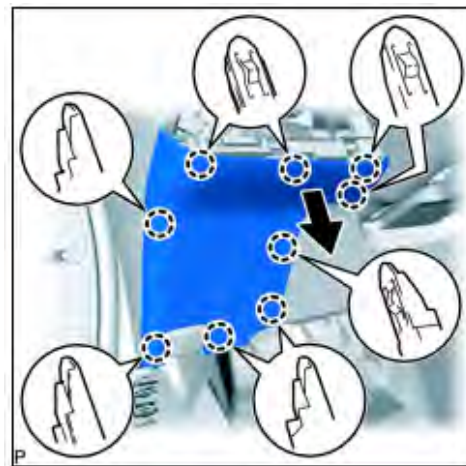


Picture 10

12. Remove left side dash panels from dashboard and unplug connectors. Extra caution should be taking not to pull to hard and damage connectors:
 - a. First, remove the switch hole base
 - b. Then remove the lower instrument panel finish (picture 11 and 11A)



Picture 11



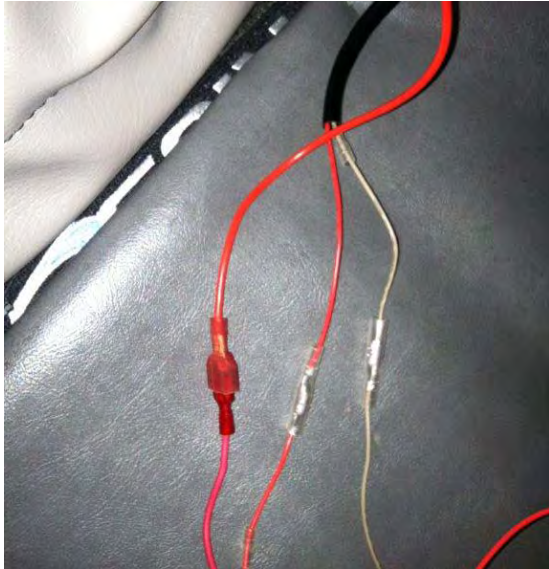
Picture 11A

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



Picture 13

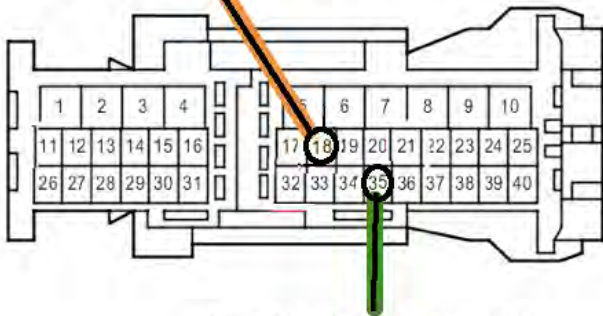
14. From inside the cabin, locate the wires that were pushed through in step 6 and plug them to the switch wire harness. It will be the hood release grommet on the left side of vehicle (picture 14)



Picture 14

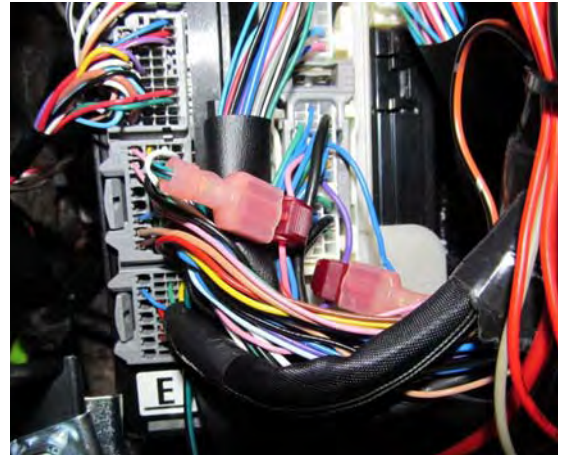
15. T-tap to connect the orange/black wire from fog light harness to connector 3C pin 18, purple wire. Connector 3C located left of the steering column (picture 15 and 16)
16. T-Tap, connect the green/black wire from fog light harness to connector 3C pin 35, pink wire (picture 15 and 16)

Orange-Black to Pin 18 (purple wire)



Green-Black to Pin 35 (pink wire)

Picture 15: Pin side view



Picture 16

17. Install switch harness into switch and reinstall switch panel
18. Secure fog light wire harness and relay with wire ties and reinstall dash panels (pic. 17)



Picture 17

19. Route the red wire with the ring terminal (positive) along left side of vehicle, securing with factory clips and wire ties, towards the rear seat (pictures 18 and 19)

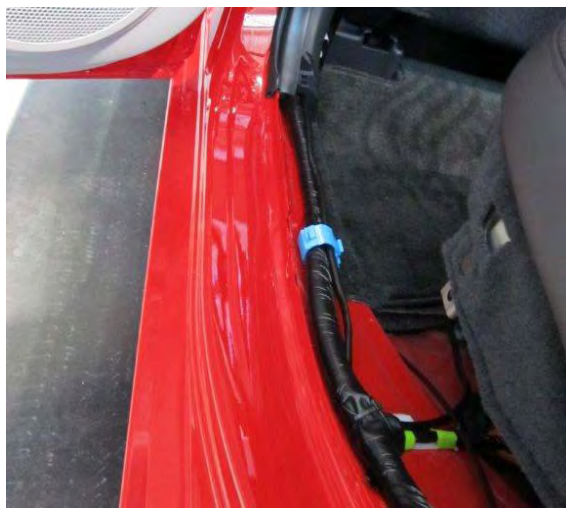


Picture 18



Picture 19

- 20. Push the red wire under the B pillar cover panel of the vehicle. Continue red wire towards rear seat through the rear left scuff plate (picture 20)



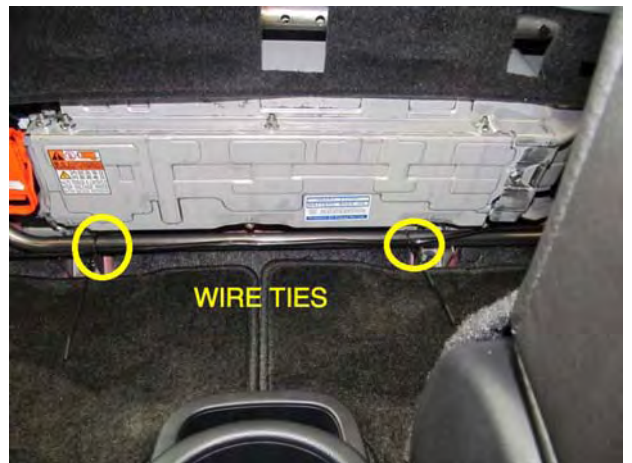
Picture 20

- 21. Run wire towards the right side of the vehicle. Secure with wire ties (pic. 21~23)



WIRE TIE

Picture 21



WIRE TIES

Picture 22



Picture 23

22. Do not connect ring terminal to positive terminal of battery at this point. It will be connected at the end of the process

ENGINE COMPARTMENT

23. Mount fog light housings into the bezels: slide the fog light tab into slot and secure other side with supplied screw (picture 24)



Picture 24

24. Remove right and left splash shields
 25. Release tabs holding fog light cover. Push the fog lamp covers towards the inside of car (picture 25)



Picture 25

26. From underneath the vehicle, remove fog light cover. Repeat on other side (pic. 26)



Picture 26

27. On the driver side, route the fog light wire under car
 28. From the inside out, install both fog lights into vehicle. Make sure that tabs of bezel click into bumper (picture 27)

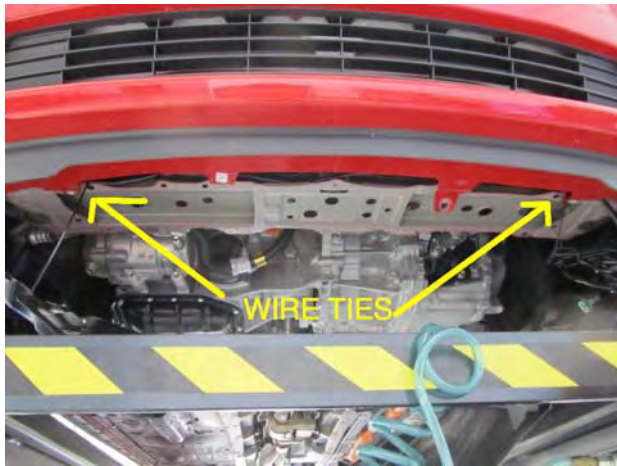


Picture 27



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

29. Plug in left side fog light into harness plug and secure with wire ties
 30. Run right side of wire harness under skid plate and secure with wire ties (picture 28, 29 and 30)



Picture 28



Picture 29



Picture 30

31. Plug in right fog light into harness plug and secure with wire ties to factory wire harness
32. On the driver side, secure excess wire harness with a wire tie and wire tie to factory wire harness (picture 31)



Picture 31

33. Reattach the lower splash shields
34. Attach fog light 12v red wire to battery (48 in-lb)
35. Re-install battery, bracket & assembly, if applicable.
36. Re-install battery negative terminal at 48 in lbs.
37. Reconnect battery positive terminal nut to 48in lbs, if applicable.
38. Avoid compressing relay against battery.
39. Reinstall under rear seat panels and make sure all removed panels are secure.

Check System for Operation

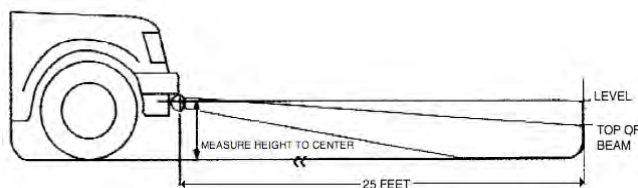
1. Reconnect battery negative terminal
2. Turn on headlamp low beams, then press fog light switch to "ON" position. Fog lights should be working. Fog lights will only work when the low beam headlamps are "ON". Fog lights will NOT work when the high beam headlamps are "ON"

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 33)



Picture 33



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

- Fog Lights function.....

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

Vehicle Function checks

- Check functions all switch functions

Look For:

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 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