

Part Number: TPC-312 / TPC-812



Kit Contents

Item #	Quantity Reqd.	Description
1	2	Fog Lamps
2	2	Bezels
3	1	Switch Assembly
4	1	Fog Light Operation guide
5	1	Harness bag

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1	Wire harness
2	1	Switch harness
3	2	Relays
4	25	Wire ties
5	2	Phillip head screws
6	2	Red T-Taps
7	2	LED Connectors (for TPC-812)

Conflicts

- Factory Installed Fog Lights

General Applicability






Models:

Recommended Tools

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

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.
	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.

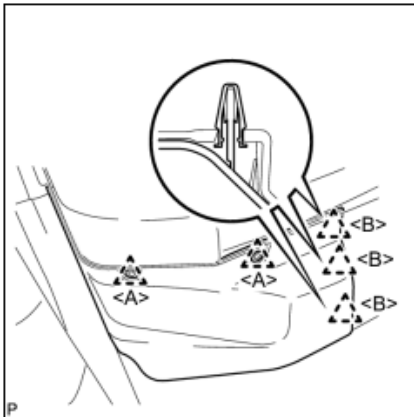
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure quality installation.

Preparation



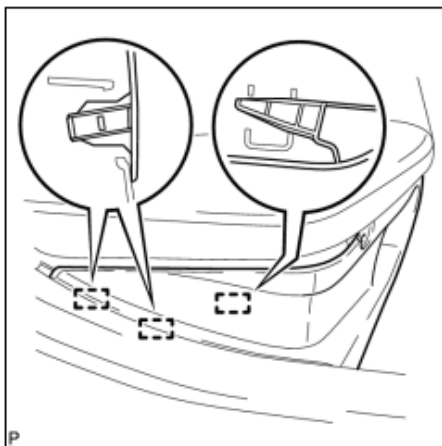
Remove negative battery cable

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



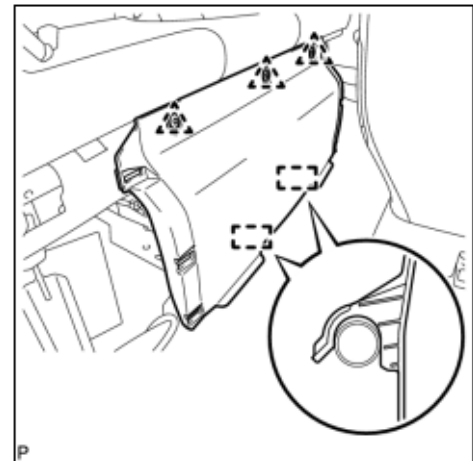
Picture 1

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



Picture 2

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 3

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



Picture 4

5. 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

6. Using wire tires, secure fog light wire to vehicle wire harness (picture 6)



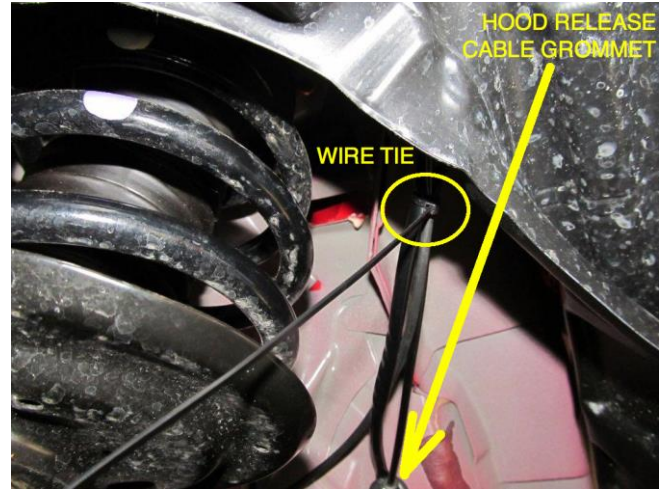
Picture 6

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



Picture 7

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

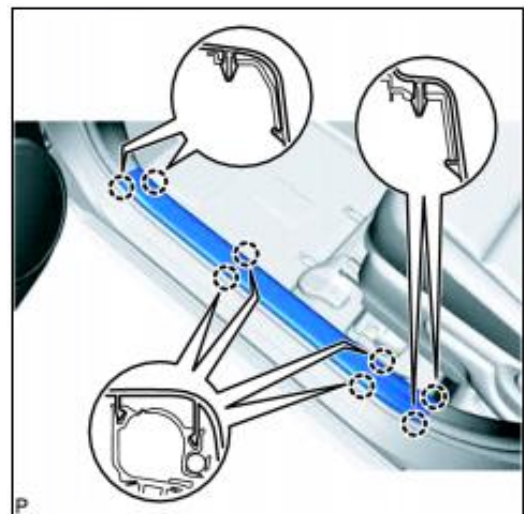


Picture 8

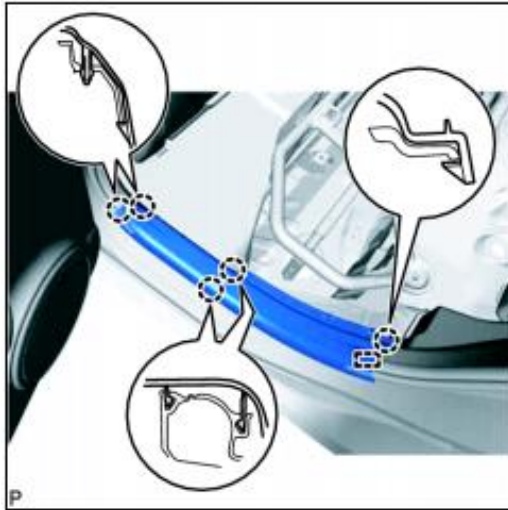
9. Locate the hood release cable grommet behind fender liner. Cut a 1/4" slit in grommet and push the red, gray/white and red (16 ga.) wires through firewall. Note: Seal with 3M Silicone sealant

Vehicle disassembly

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

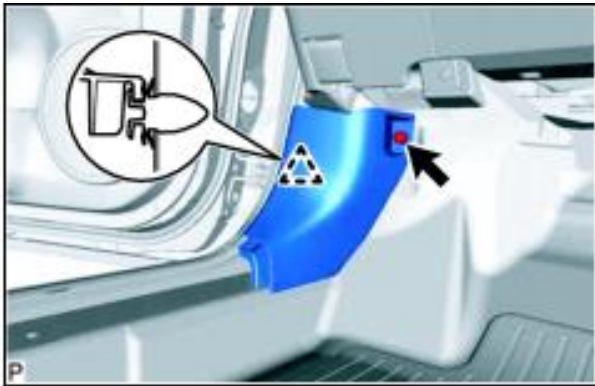


Picture 9: Front LH scuff plate



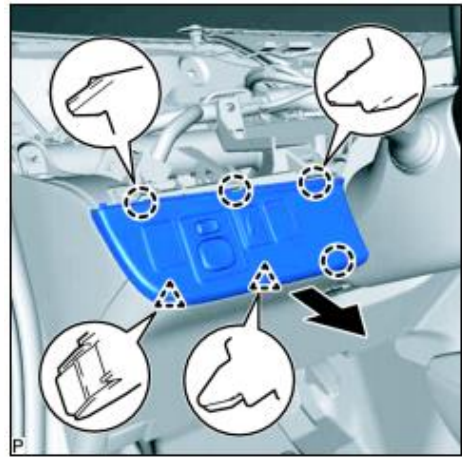
9A: Rear LH scuff plate

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

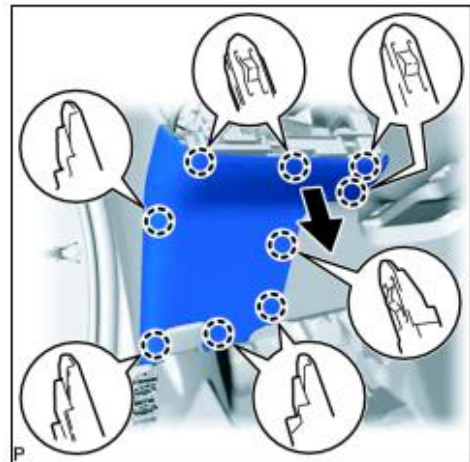


Picture 10

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



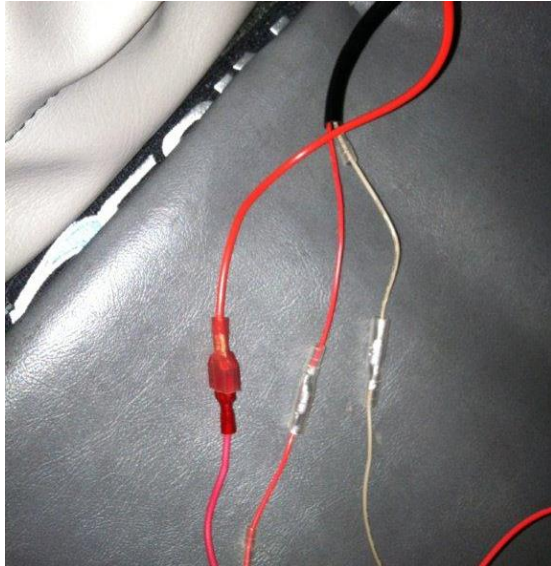
Picture 11A

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



Picture 13

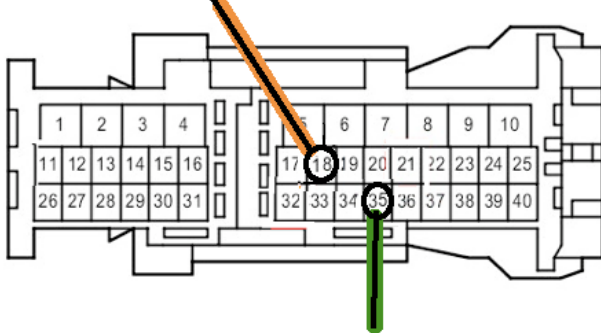
14. From inside the cabin, locate the wires that were pushed through in step 6 and plug them to the switch wire harness. It will be the hood release grommet on the left side of vehicle (picture 14)



Picture 14

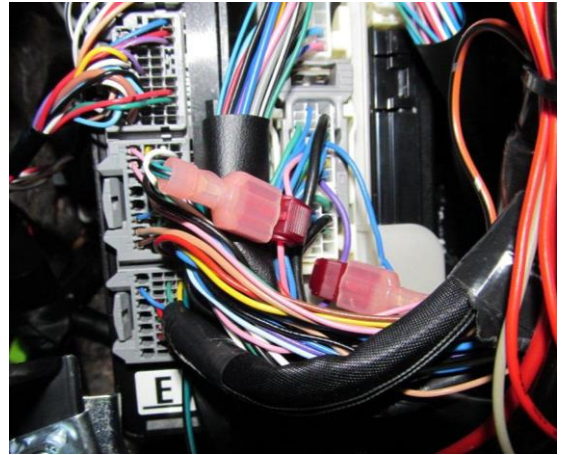
15. T-tap to connect the orange/black wire from fog light harness to connector 3C pin 18, purple wire. Connector 3C located left of the steering column (picture 15 and 16)
16. T-Tap, connect the green/black wire from fog light harness to connector 3C pin 35, pink wire (picture 15 and 16)

Orange-Black to Pin 18 (purple wire)



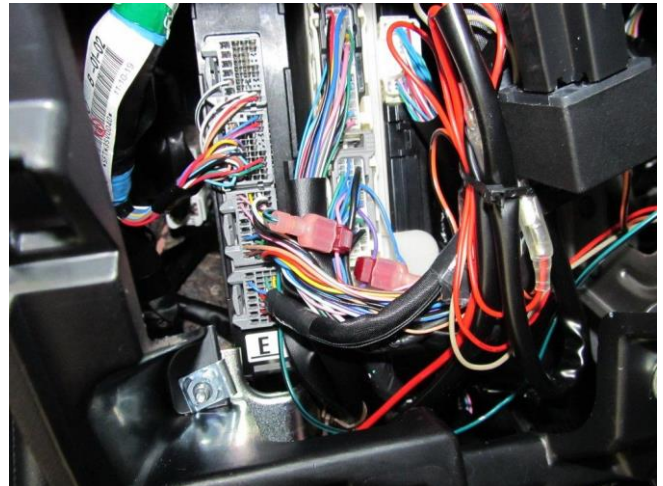
Green-Black to Pin 35 (pink wire)

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)

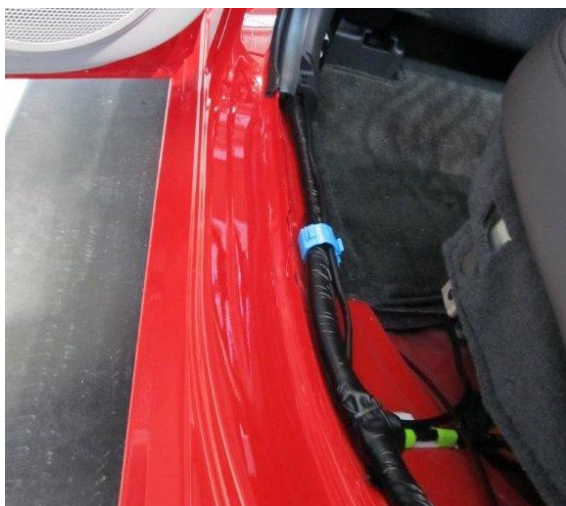


Picture 18



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)

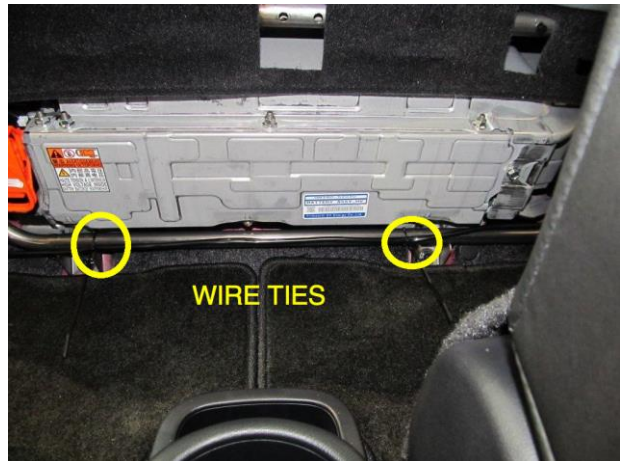


Picture 20

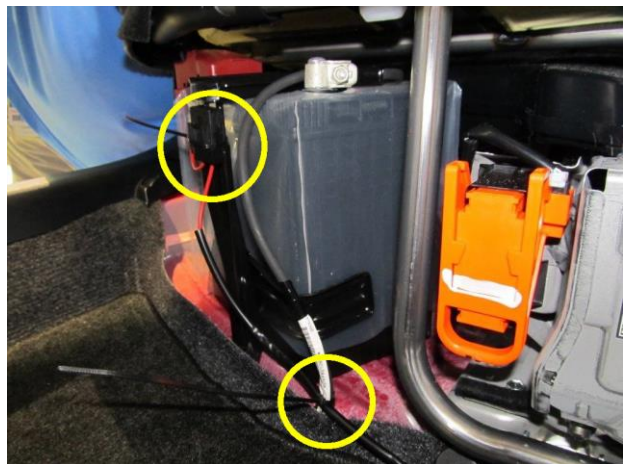
21. Run wire towards the right side of the vehicle. Secure with wire ties (pic. 21~23)



Picture 21



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 by sliding the fog light tabs into the slots, then secure the other side with supplied screw (picture 24)

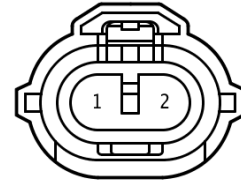


Picture 24

24. Note: For Halogen installations, proceed to step 25. For LED installations; The LED fog light wires may not be pushed into their connectors. If not, push the negative wire (black or black-white) into Pin 2 of the connector. Then, push the positive wire (red or red-white) into Pin 1 of the connector. See Picture 25 below.



LED Lights will NOT work if the polarity is reversed. Be sure the red positive wire of the harness matches the red positive wire of the light housing, and the black negative wire of the harness matches the black negative wire of the light housing.



Picture 25

25. Remove right and left splash shields
26. Release tabs holding fog light cover. Push the fog lamp covers towards the inside of car (picture 26)



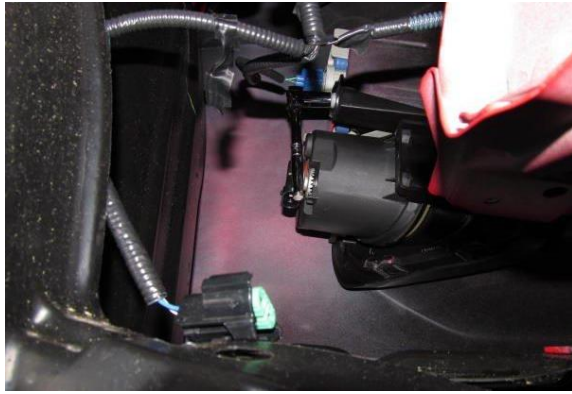
Picture 26

27. From underneath the vehicle, remove fog light cover. Repeat on other side (pic. 27)



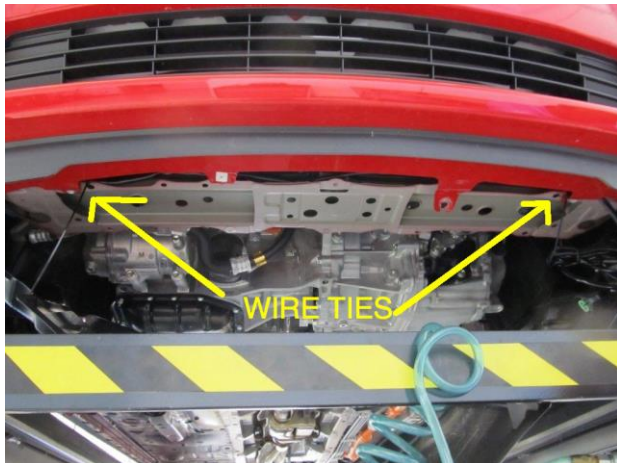
Picture 27

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



Picture 28

30. Plug in left side fog light into harness plug and secure with wire ties
31. Run right side of wire harness under skid plate and secure with wire ties (picture 29, 30 and 31)



Picture 29



Picture 30



Picture 31

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



Picture 33

34. Reattach the lower splash shields
35. Attach fog light 12v red wire to battery (48 in-lb)
36. Reconnect negative battery cable. Torque to 48 in-lb.
37. Reinstall under rear seat panels and make sure all removed panels are secure.

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

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

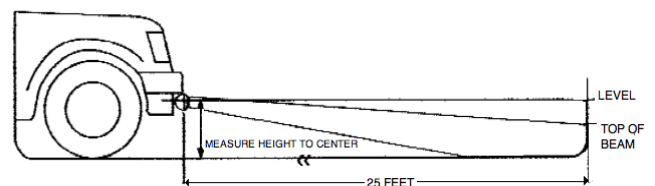


NOTE: Use only hand tools to adjust the fog light aiming screw. DO NOT use power assisted tools, as they will damage the fog light.

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 picture 32)



Picture 32

Check

Accessory Functions Checks

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

Vehicle Function checks

- Check all vehicle functions

Look For:

- Inoperable fog light function
- Loose panels and switches
- Re-torque battery terminals to 48 in-lb