

Part Number: TCO-301 / TCO-808



**Kit Contents**

Item #	Quantity Req'd.	Description
1	2	Fog Lamps
2	2	Fog Light 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	25	8" Wire ties
5	4	Phillip head screws
6	2	Black T-Taps
7	2	LED Connector (for TCO-808)

**Conflicts**

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**General Applicability**






Models:
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**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	

Mandatory

Legend

	<b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.
	<b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury
	<b>CRITICAL PROCESS:</b> Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation
	<b>TOOLS &amp; EQUIPMENT:</b> This calls out the specific tools and equipment required for this process
	<b>REVISION MARK:</b> This mark highlights a change in installation with respect to previous issue.

**SPECIAL NOTE:**

After **Auer Automotive 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.

## Preparation



Remove negative battery cable

## Installation

1. Secure the relay and fuse to the negative battery harness next to the battery. Secure top and bottom with wire ties (picture 1).



Picture 1

2. Attach the ring terminal with 2 black wires to the 10mm bolt at factory ground next to 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)

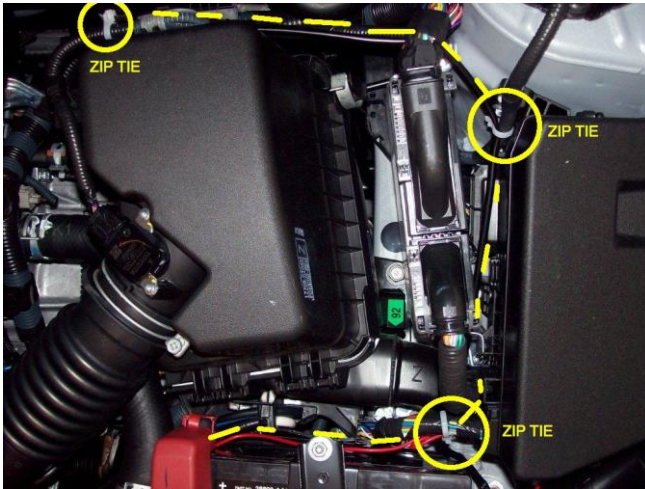


Picture 3

4. 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 red and gray/white wires through firewall. **Note:** Extra caution

should be taken not to damage the bullet connectors. Seal with 3M Silicone sealant

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



Picture 4

**Vehicle Disassembly**

6. Remove left side switch panel by disengaging clips. Remove connector plugs (picture 5)



Picture 5

7. Mount switch into switch knockout on left side of dash (see picture 6)



Picture 6

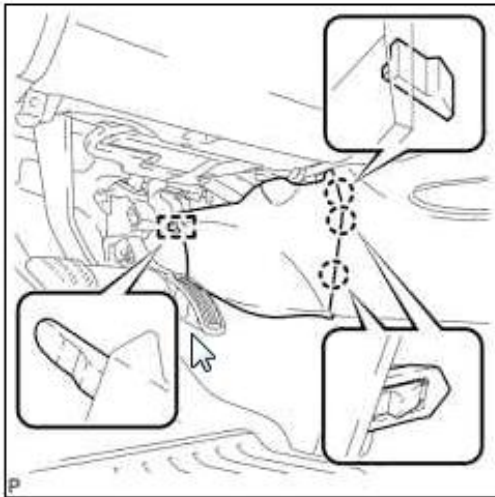
8. Remove lower knee finish panel by removing 2 Phillip screws. Disengage 2 clips and disconnect tire pressure reset plug (picture 7)



Picture 7

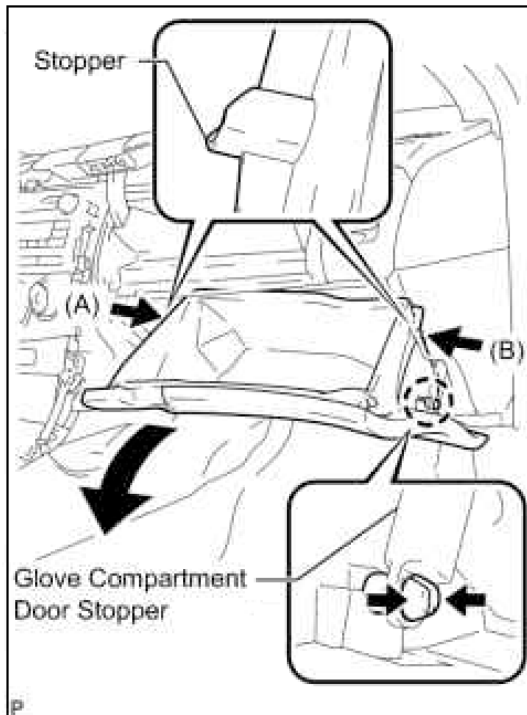
9. Remove the left front console box insert. Disengage 3 claws, then disengage the guide (picture 8)





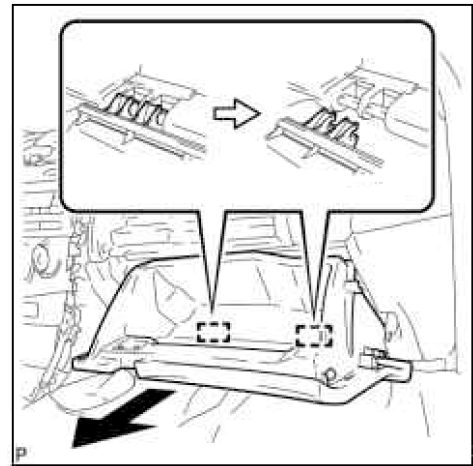
Picture 8

10. Repeat step 9 for right front console box insert.
11. Remove glove compartment door:
  - a. Disengage the claw and release the door stopper (picture 9)



Picture 9

- b. Bend portions (A) and (B) in the direction indicated by the arrows in picture 9A, to release the 2 stoppers, and lower the glove compartment door



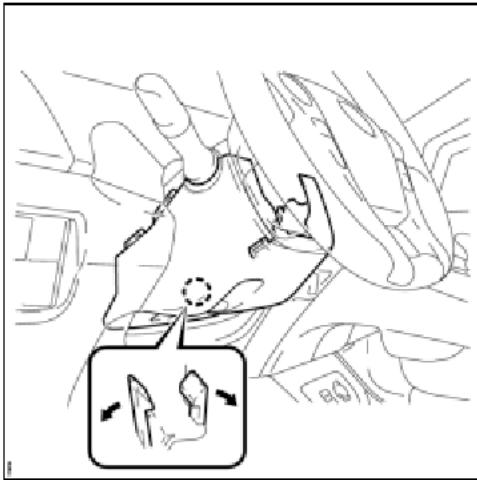
Picture 9A

- c. Pull the glove compartment door assembly horizontally toward the rear of the vehicle to release the 2 hinges, then remove door assy.
12. Remove lower steering wheel cover
13. Push the right and left sides of lower steering column cover to disengage the 4 claws (picture 10)



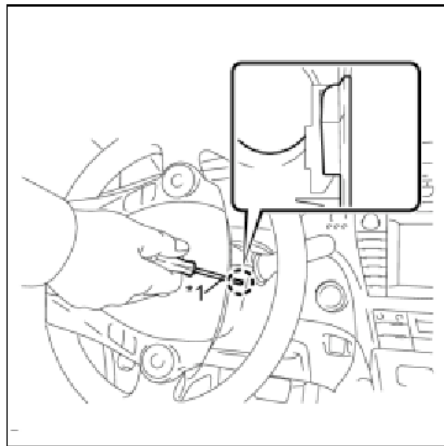
Picture 10

14. Insert fingers into the opening of the tilt leveler of the lower steering column cover to disengage the claw (picture 11)



Picture 11

15. Turn the steering wheel assembly (pic. 12)



Picture 12

16. From inside the cabin, locate the wires that were pushed through in step 4. It will be the grommet above the gas pedal (picture 13)

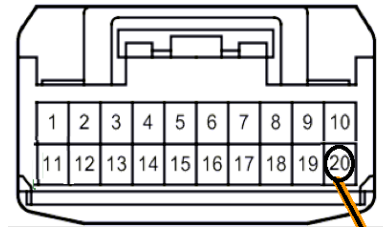


Picture 13

17. T-tap orange/black wire from fog light harness to connector E8 pin 20, dark green wire: first pin on left (pictures 14 and 14A). Connector E8 is located under the steering column.



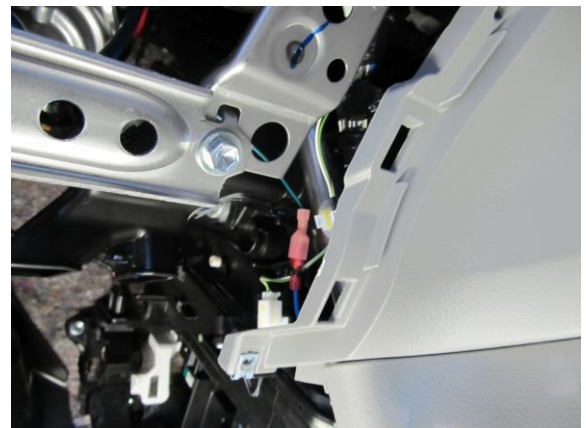
Picture 14



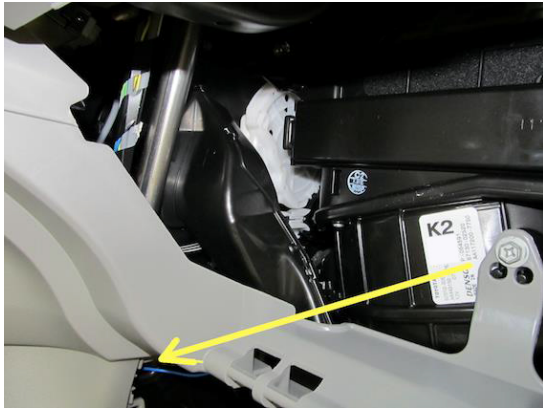
Orange-Black to Pin 20 dark green wire

Picture 14A

18. Connect the 36" extension to the green-black wire from the fog light harness. Run the extension to the passenger side, through the console box front area. Use wire ties as needed (picture 15 and 15A)

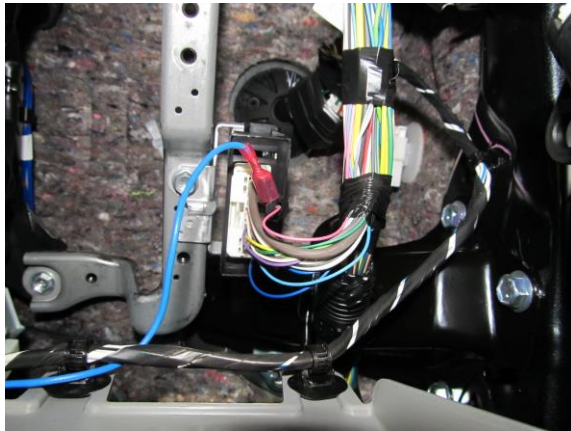


Picture 15

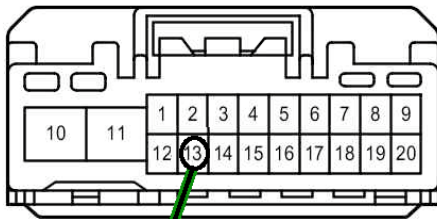


Picture 15A

19. T-tap the 36" extension wire from fog light harness to connector E91 pin 13, pink wire. Connector E91 is behind the glove compartment (pictures 16 and 16A)



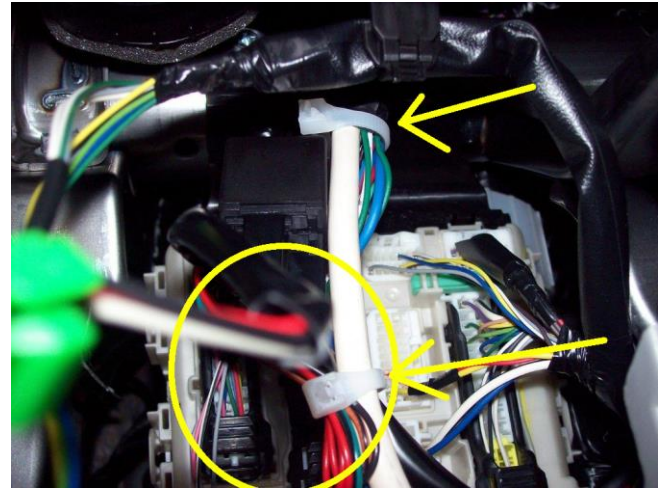
Picture 16



Green-Black to Pin 13 pink wire  
Picture 16A

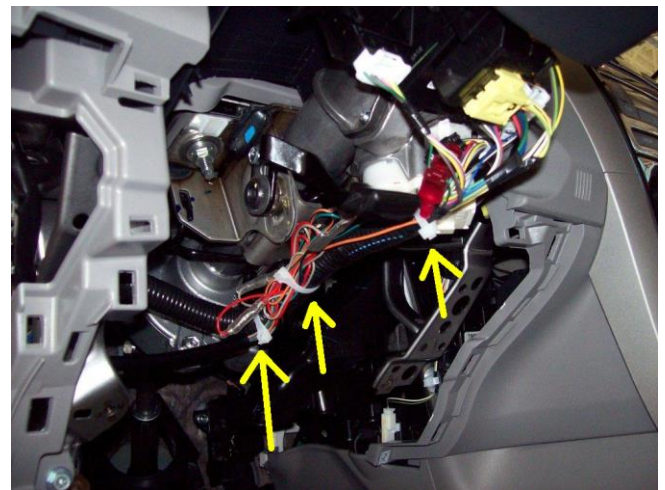
20. Secure top of fog light relay to big white wire at junction box connector. Run wire to switch location on switch finish panel and secure any excess wire along with bottom of

relay to white wire at junction box (see picture 17)



Picture 17

21. Secure any excess wire from t-taps from to main wire harness next to the steering wheel column (picture 18)



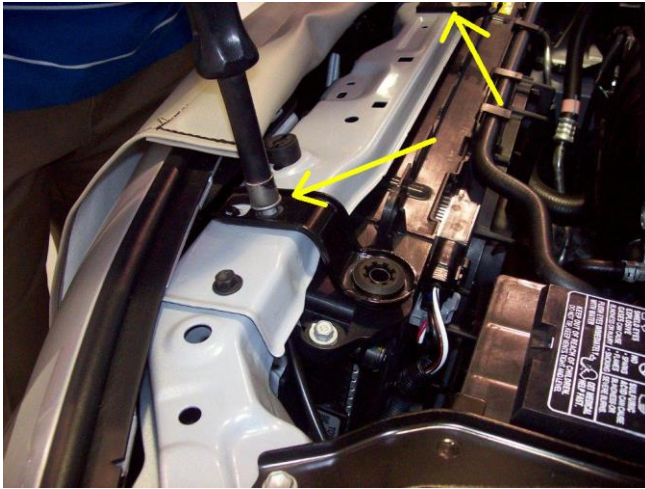
Picture 18

22. Connect switch harness to switch
23. Reinstall glove compartment, dash panels and connectors

**ENGINE COMPARTMENT**

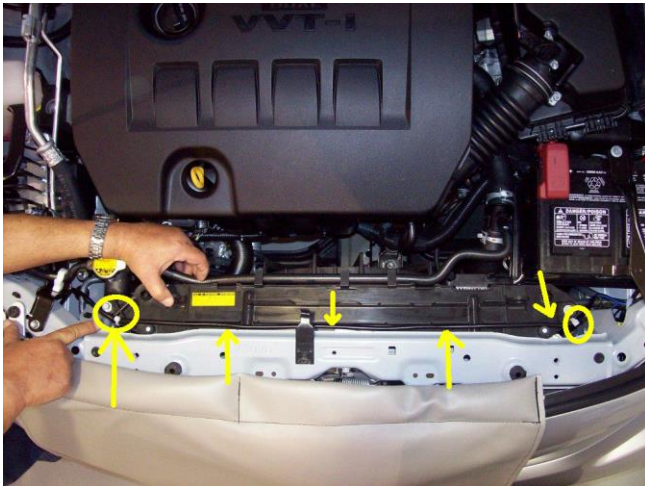
24. Remove 2x12 mm bolts holding the radiator supports from core support (picture 19)





Picture 19

25. Run harness along top of radiator and secure with a wire tie at each end (picture 20)



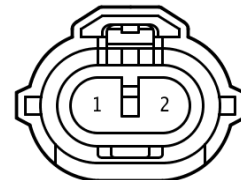
Picture 20

26. Reinstall radiator supports and torque to 14 ft-lb.
27. Run harness down right and left side of vehicle
28. Remove splash guard corners on both sides by removing a 10mm bolt (picture 21)



Picture 21

29. Remove fog light cover plates on both sides of vehicle
30. If installing LED fog lights, LED fog light wires may not pushed into their connectors. If then, push the negative wire (black or black-white) into pin 1 White/black wire. Push positive wires (red or red-white) into pin 2. Picture 22.



Picture 22

31. Insert one side of the fog light into the plastic sleeve and secure with 2 supplied Phillip screws. Repeat this step for other side of vehicle.
32. Plug in left side fog light into harness plug and secure with wire tie to factory harness
33. Plug in right fog light into harness plug and secure with wire tie to factory harness
34. Snap on both fog light bezels (picture 23)



Picture 23

35. Reattach the lower splash shield corners
36. Reconnect negative battery cable. Torque to 48 in-lbs.



## Check System for Operation

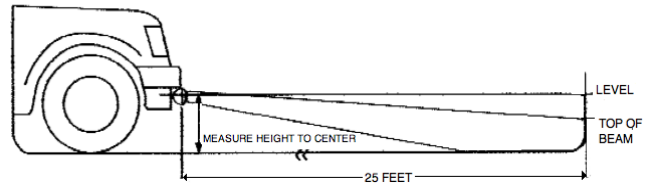
1. Reconnect battery terminals
2. Turn on headlamp low beams, then press fog light switch to "ON" position. Fog lights should be working. Fog lights will only work when the low beam headlamps are "ON". Fog lights will NOT work when the high beam headlamps are "ON"

## 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 24)



Picture 24



**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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- 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