

Part Number: TCA-810



**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
5	1	Harness Bag

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description
1	1	Wire harness
2	1	Switch harness
3	2	Relays
4	25	Wire ties
5	5	Phillip head screws
6	2	Red T-Taps
7	2	LED Connectors

**Service Parts**

Item	Part number

**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.

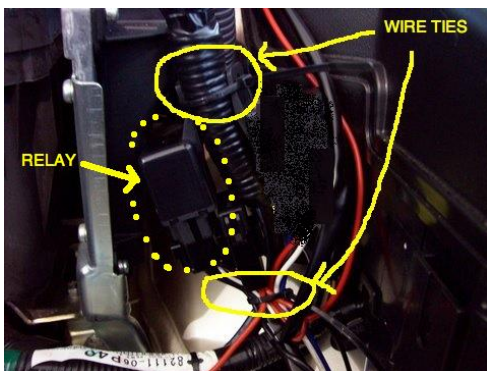
## Preparation



Remove the battery from the vehicle

## Installation

1. Secure the relay and fuse to the wire loom next to the Battery with wire ties. Secure top and bottom with wire ties (see Picture 1).



Picture 1

2. Attach the ring terminal with 2 black wires to the 10mm bolt next to the relay (picture 2)



Picture 2

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

terminal cover. Torque nut to 14 ft-lb (picture 3)



Picture 2

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 and 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 3)



Picture 3

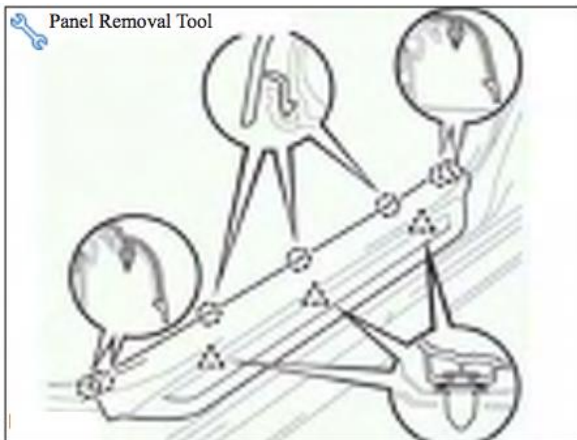
5. Run the fog light wire harness on the driver side of the car. Use wire ties as needed (see picture 4)



Picture 4

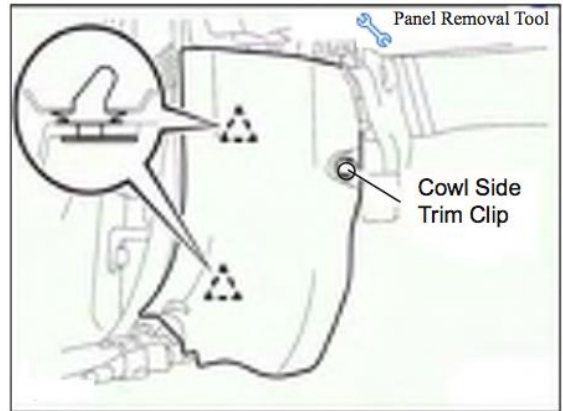
**Vehicle Disassembly**

- 6. Remove driver side door scuff plate
  - a. Disengage with panel tool and remove (see picture 5)



Picture 5

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



Picture 6

- 8. Remove the finish panel covering the knee airbag
  - a. Remove bolt located on the lower left corner of the finish panel using a 10mm ratchet/socket (see picture 7)



Picture 7

- b. Remove the Phillips screw located on the bottom right corner of the finish panel (see picture 7A)



Picture 7A

- c. Using your hands, gently pull out the finish panel to disengage the six (6) clips and four (4) claws (see picture 7B)



Picture 7B

NOTE: Start from the bottom and work your way up

- d. Disconnect all connectors

9. Remove hood latch cable by sliding the plastic end to the right to release it from the lock (see picture 8)



Picture 8

10. Mount switch into switch knockout on left side of dash (see picture 9)



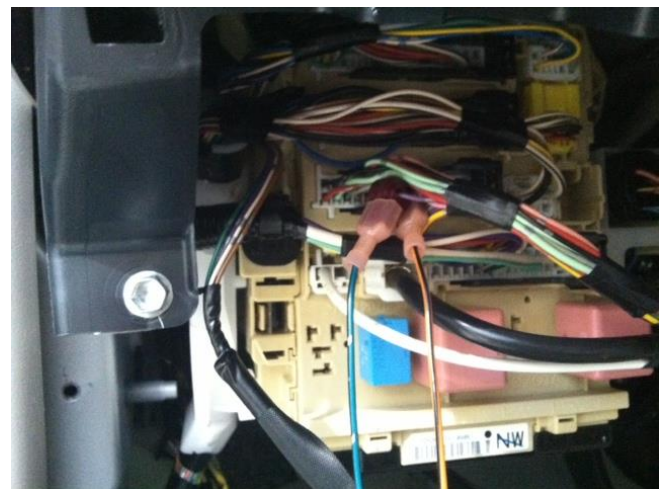
Picture 9

11. From inside the cabin, locate the wires that were pushed through in step 4. It will be the grommet above the gas pedal (see picture 10)

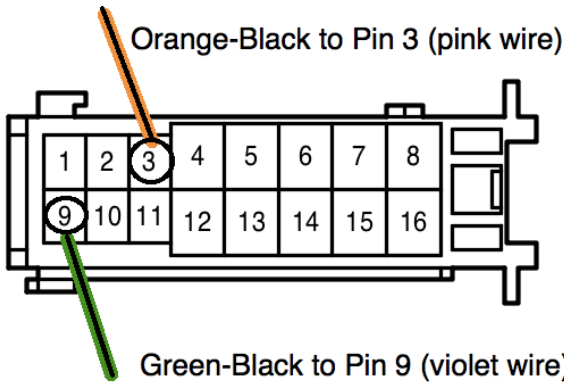


Picture 10

12. T-tap green/black wire from fog light harness to connector ID pin 9, violet wire. Connector ID is located on the left side of the steering wheel, above a large black wire going to the JB block (pictures 11 and 12)
13. T-Tap orange/black wire from fog light harness to connector ID pin 3, pink wire, middle third pin from left (pictures 11 and 12)



Picture 11



Picture 12

14. Install switch harness into switch (see picture 13)



Picture 13

15. Secure fog light and relay with wire ties (see picture 14)



Picture 14

16. Reinstall dash panels

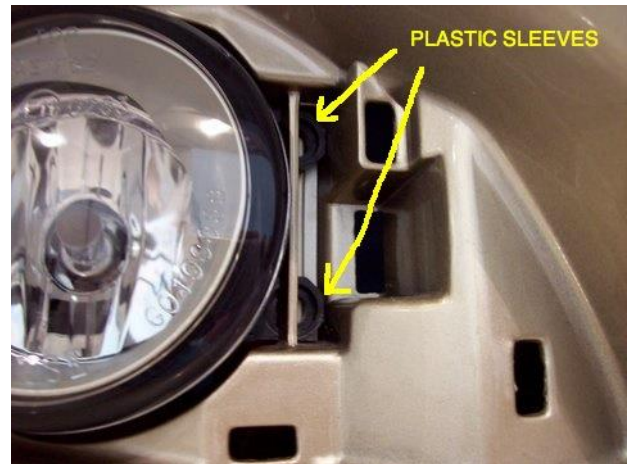
**ENGINE COMPARTMENT**

17. For V6 models only: Remove engine cover shield (picture 15)



Picture 15: V6 models ONLY

18. Route the fog light wire under car.
19. Remove fog light cover plates and lower splash shields on both sides
20. Insert one side of the fog light into the plastic sleeve and secure other side with supplied Phillip screws (see picture 16). Repeat this step for left and right fog lamps.



Picture 16

21. Plug in left side fog light into harness plug and secure with wire ties
22. Run right side of wire harness under skid plate and secure with wire ties (see picture 17)



Picture 17

23. Plug in right fog light into harness plug and secure with wire ties
24. Snap on both fog light bezels (see picture 18)



Picture 18

25. Reattach the lower splash shields
26. For V6 models only: Reinstall engine cover shield
27. Reinstall and connect battery. Avoid compressing relay against battery. Torque battery terminals to 61 in-lb.

**Checklist** – these points MUST be checked to ensure quality installation**Check System for Operation**

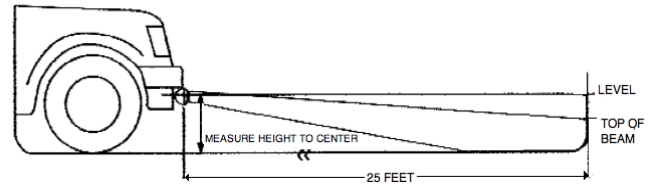
1. Turn on headlamp low beams, then press fog light switch to “ON” position. Fog lights should be working. Fog lights will only work when the low beam headlamps are “ON”. Fog lights will NOT work when the high beam headlamps are “ON”

**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 19)



Picture 19

**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 61 in-lb

**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