

Part Number: STC-312 / STC-812



Kit Contents

Item #	Quantity Reqd.	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 Reqd.	Description
1	1	Switch harness
2	1	Wire harness
3	1	Relay
4	15	8" Wire ties
5	4	Philip head screws
6	2	LED Connectors (for STC-812)

Conflicts

- Existing 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. 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.

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.

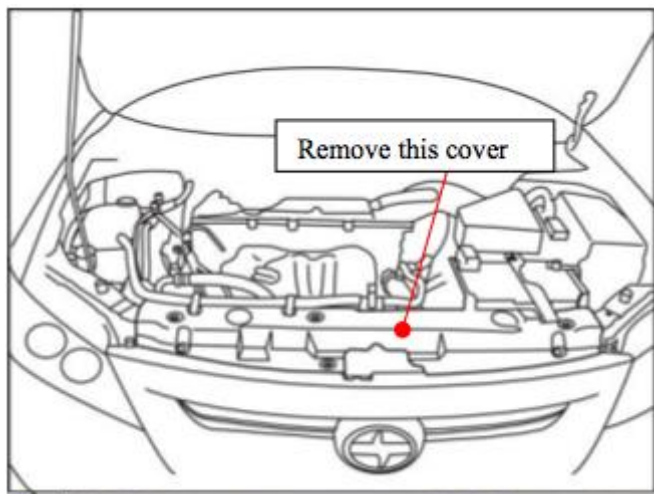
Preparation



Remove negative battery cable

Vehicle Disassembly

1. Remove the engine cover (picture 1)



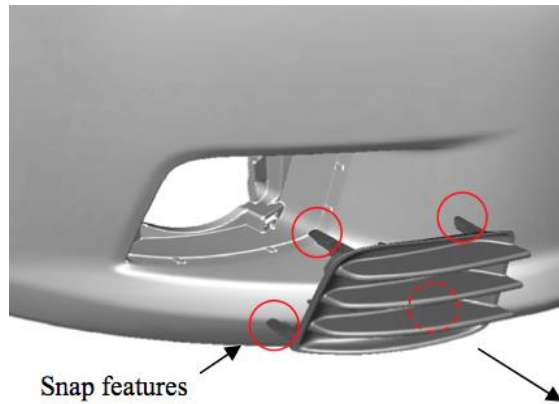
Picture 1

2. Remove screw from fender liner (picture 2). Repeat for other side of vehicle



Picture 2

3. Remove existing fog light cover on both sides (picture 3)



Picture 3

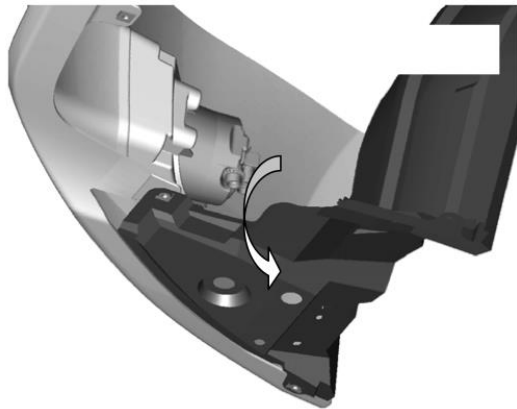
Installation

4. Lamps are marked for installation on the left or right side of vehicle. Install lamps by inserting inboard tabs into sockets in bumper. Rotate lamp into installed position and make sure tab on outboard side is on the boss on the bumper (picture 4)



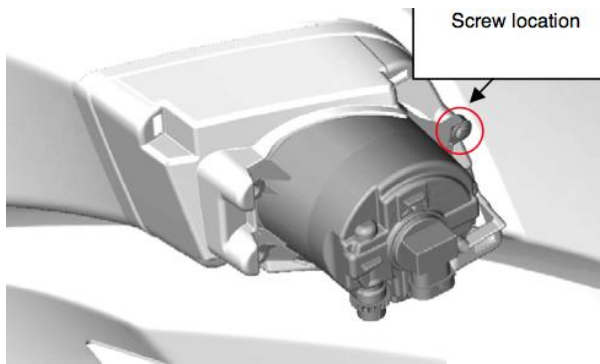
Picture 4

5. Pull fender liner aside for access to rear of lamp (picture 5)



Picture 5

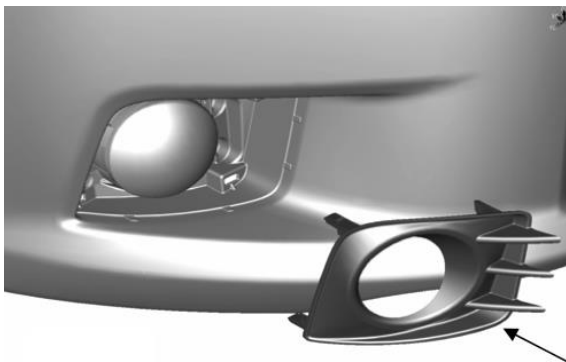
- Secure lamp into bumper with screw provided in this kit (picture 6)



Picture 6

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

- Snap on the both fog light bezel (picture 7)



Picture 7

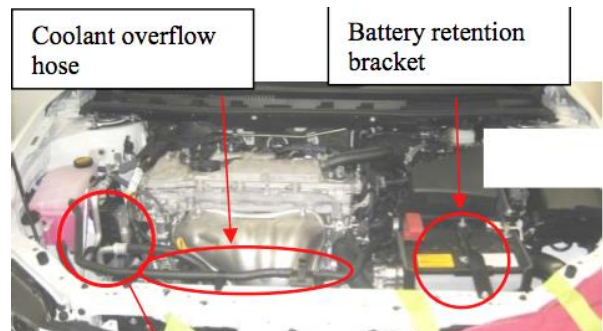
- Lay harness over top of engine. Route the short end of wire with 2-pin connector down through the opening near the driver side of

battery. Plug it into the driver side lamp (picture 8)



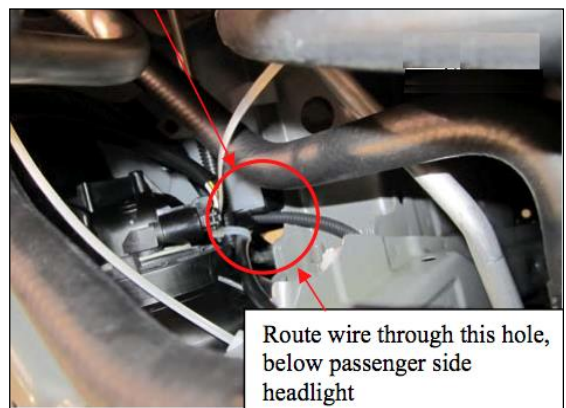
Picture 8

- Route wiring underneath the battery retention and coolant overflow hose (picture 9)



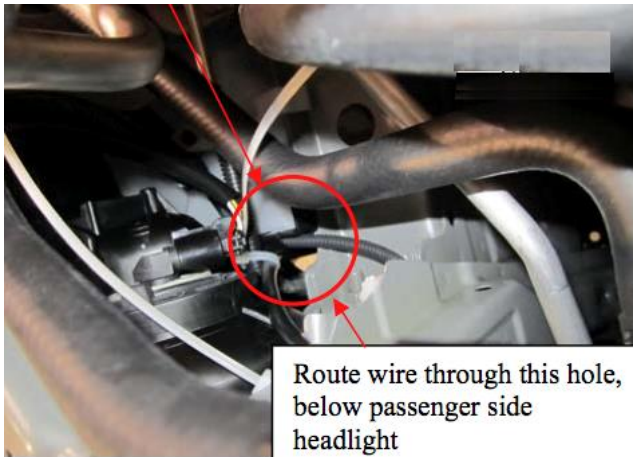
Picture 9

- Route the end of wire with 2-pin connector through the opening under passenger side headlight. Reach underneath bumper. Plug harness to lamp (picture 10)

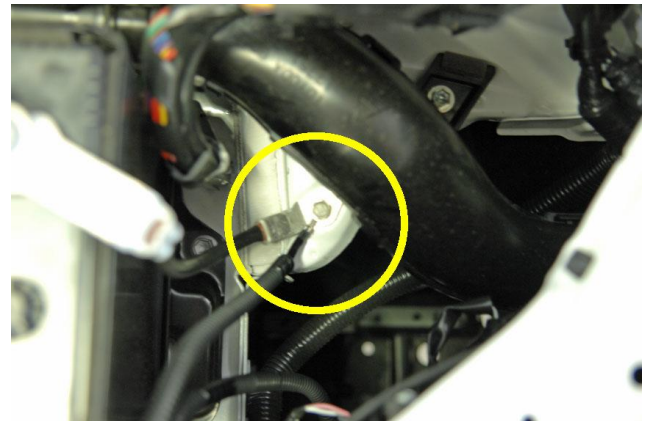


Picture 10

- Route wire with single-pin connector down beside battery (picture 11)

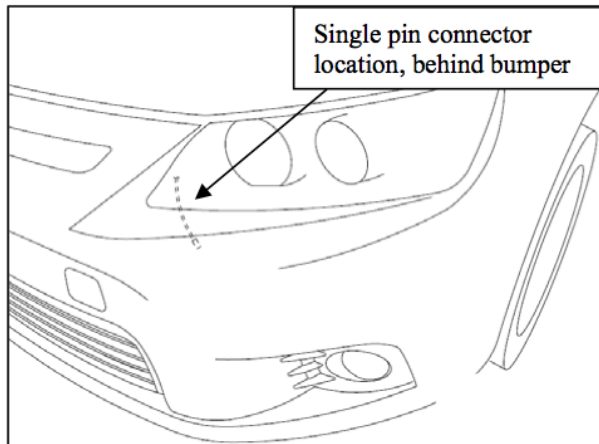


Picture 11



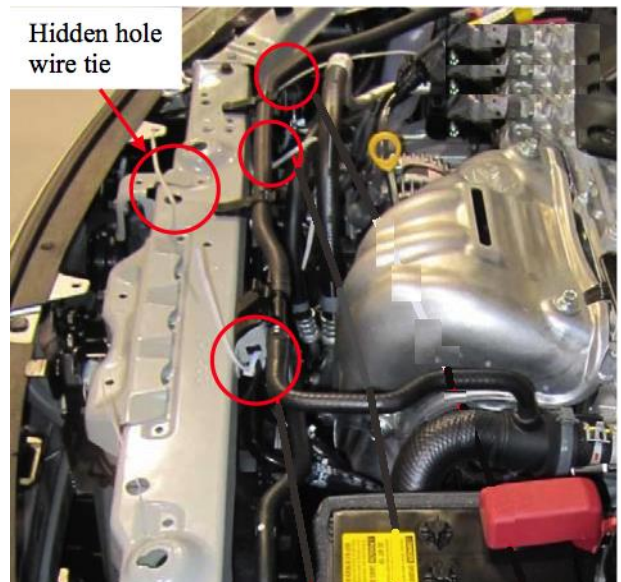
Picture 13

12. Locate the vehicle single-pin connector behind bumper (below and in front of battery). Connect harness to this connector. Check all wires connections (picture 12)



Picture 12

14. Secure the wire harness across the engine compartment with wire ties (pictures 14 through 14E)

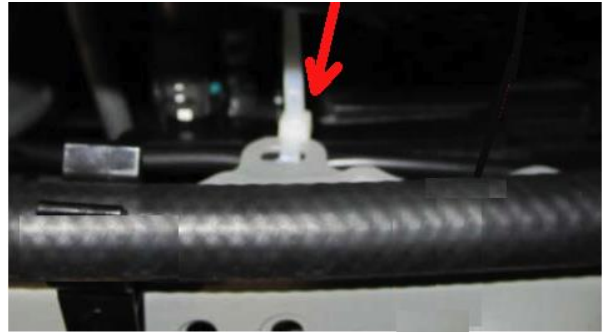


Picture 14

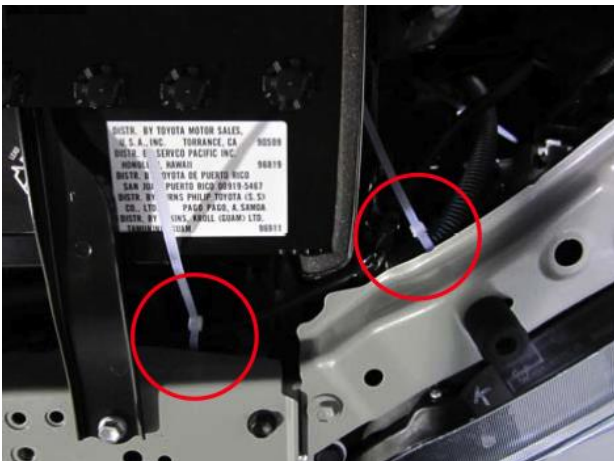
13. Attach the ground ring terminal of the fog lamps wire harness to the ground wire of the battery. Tighten to 48 in-lb (picture 13)



Picture 14A: driver side of battery



Picture 14D: Zip tie on vertical support under coolant overflow hose.

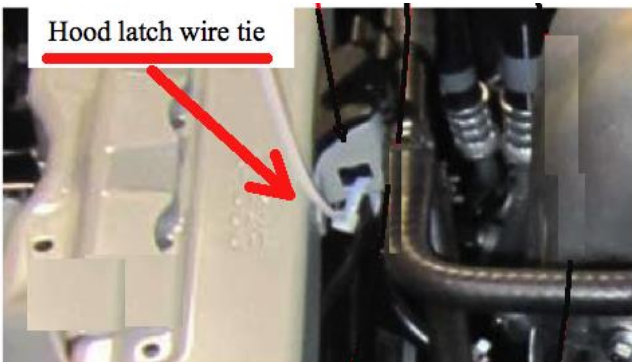


Picture 14B: In front of battery, Secure wire to hood latch cable



Picture 14E

- 15. Locate existing wiring with corrugated tubing under passenger side headlight wire harness. Secure wire harness to this wire with a wire tie (picture 15)

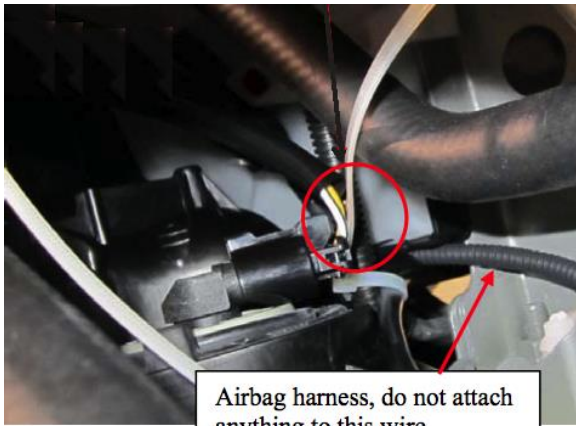


Picture 14C: Zip tie: Hood latch cable



Picture 15

- 16. Note: do not attach anything to the airbag wire harness (picture 16)



Airbag harness, do not attach anything to this wire

Picture 16

17. Locate mounting hole on windshield wiper fluid reservoir above and behind passenger side fog lamp. Secure wire harness to this mounting hole (picture 17)

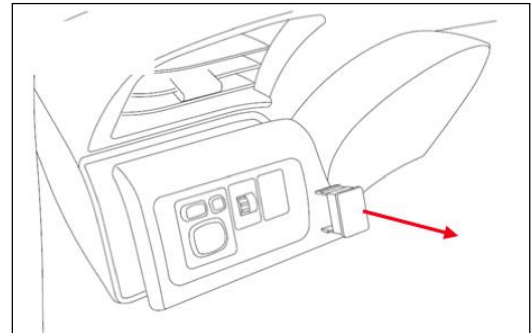


Picture 17

18. Reinstall fender liner

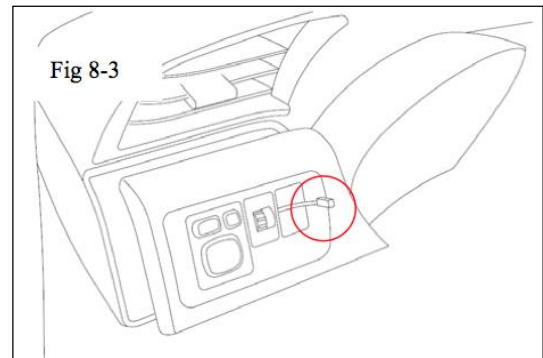
SWITCH INSTALLATION

19. Detach the mirror control panel and remove the right switch knock out from this panel (picture 18)



Picture 18

20. Find the 4-pin connector inside of instrument panel and remove electrical tape. Connect switch harness to factory 4-pin connector. Thread wire through opening in panel and connect it to fog lamp switch (picture 19)



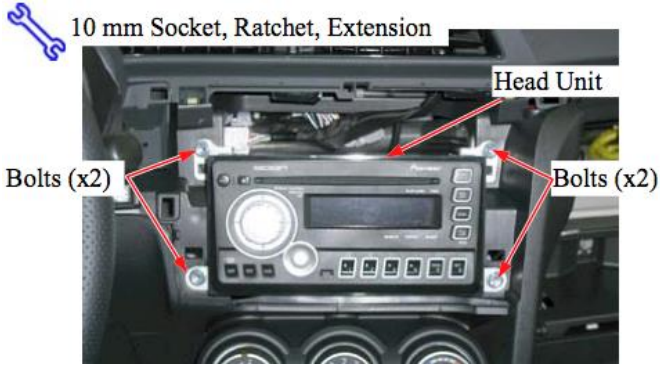
Picture 19

21. Mount switch into panel's knock out
22. Reinstall mirror control panels
23. Remove the radio head unit, by disengaging the five clips and two claws in the instrument cluster finish panel (picture 20)



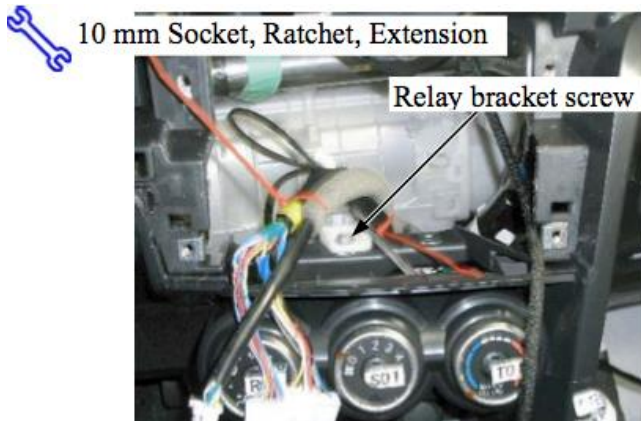
Picture 20

24. Using a 10mm wrench, remove the 4 bolts that hold the radio head unit in place. Disconnect the wire harness from head unit (picture 21)



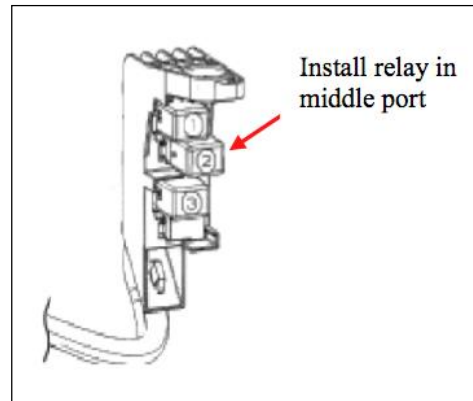
Picture 21

25. Loosen the screw holding the relay bracket in place, located behind the radio head unit (picture 22)



Picture 22

26. Raise bracket up and install the supplied relay in the middle port of the relay bracket (second port from down to top) (picture 23)



Picture 23

27. Reinstall radio head unit and instrument cluster finish
28. Reinstall cover over radiator
29. Reconnect negative cable of battery to the negative terminal of battery. Torque to 36 in-lb.

Check System for Operation

1. Check that battery is connected
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”

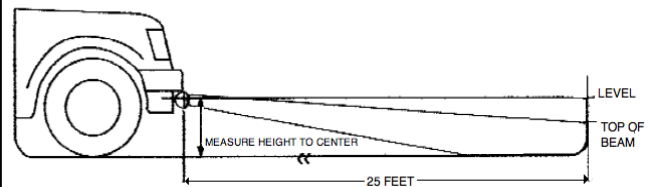
Fog Light Aiming

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

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:

-
- Loose panels and switches
- Visually confirm lights are straight forward
- Re-torque negative battery terminal to 36 in-lb