

TOYOTA

Scion tC

2011 -

Fog Lights

Part Number: 00016-79417

Accessory Code: YF30



Conflicts

NONE

Kit Contents

Item #	Quantity Reqd.	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 Reqd.	Description
1	1	Wire harness
2	1	Switch harness
3	1	SPST Relays
4	15	Wire ties
5	2	Phillip head screws

Additional Items Required For Installation

Item #	Quantity Reqd.	Description

Recommended Tools

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







Color Applicability/Trim Level

Service Part	Fog Light Housing LH	Fog Light Housing RH	Switch	Wire Harness	Relay	Bezel LH	Bezel RH
Part Number							
00016-08401-04	X						
00016-08401-03		X					
00016-79417-05			X				
00016-79417-03				X			
00016-79417-04					X		
00016-79417-02						X	
00016-79417-01							X

General Applicability

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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.
-  **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.
-  **TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.
-  **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.
-  **SAFETY TORQUE:** This mark indicates that torque is related to safety.

SPECIAL NOTE: Installation Sequences

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.

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)

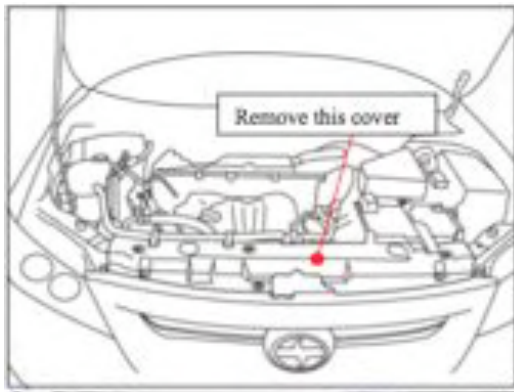
Preparation



Remove negative battery cable

Vehicle Disassembly

1. Remove the engine cover (picture 1)



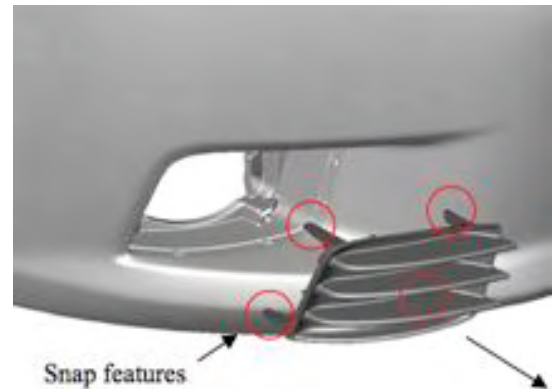
Picture 1

2. Remove screw from fender liner (picture 2).



Picture 2

3. Repeat for other side of vehicle
4. Remove existing fog light cover on both sides (picture 3)



Picture 3

Installation

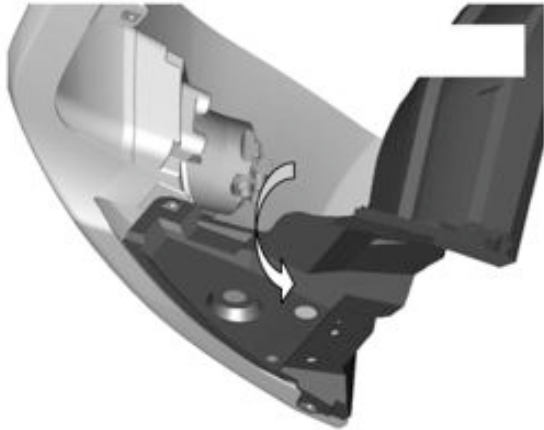
5. Lamps are marked for installation on the left or right side of vehicle. Install lamps by inserting inboard tabs into sockets in bumper. Rotate lamp into installed position and make sure tab on outboard side is on the boss on the bumper (picture 4)



Picture 4

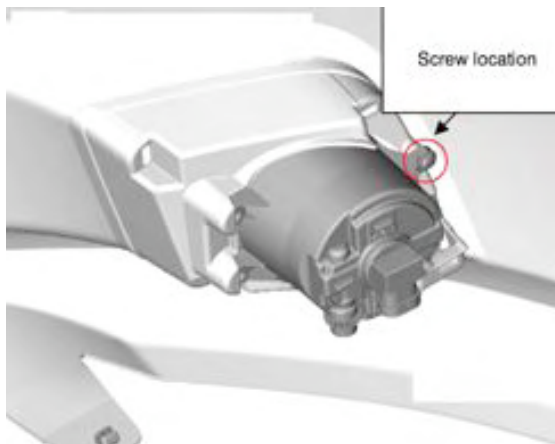
6. Pull fender liner aside for access to rear of lamp (picture 5). *Note: Fender liner does not get removed.*

Do not damage fender liner while pulling it aside to install screws. Do not over tighten screw. Do not use power tools.



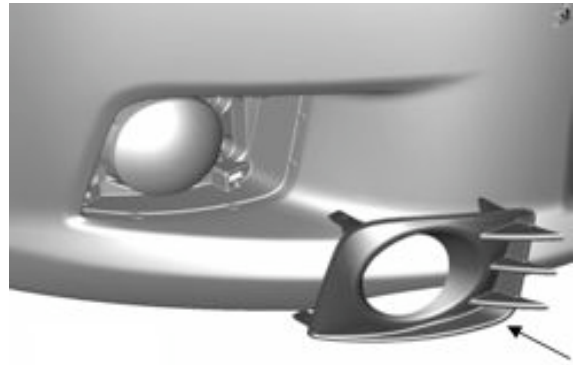
Picture 5

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



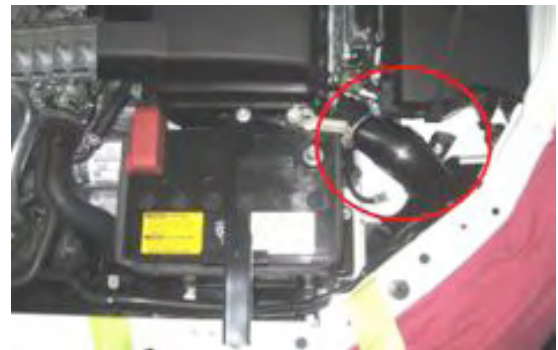
Picture 6

- Snap on the both fog light bezel. Check to make sure part is secured and the snaps have grabbed into bumper (picture 7)
- Repeat steps 5-7 for other side of vehicle.



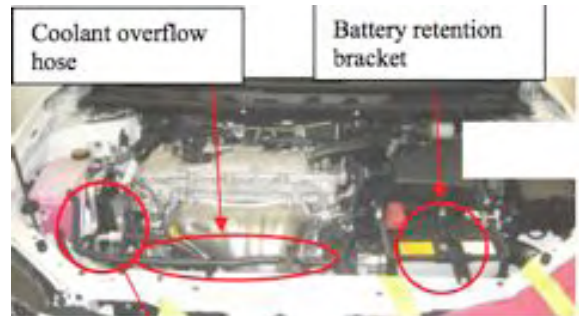
Picture 7

- 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)



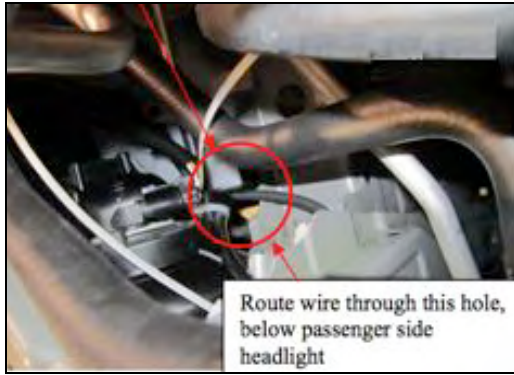
Picture 8

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



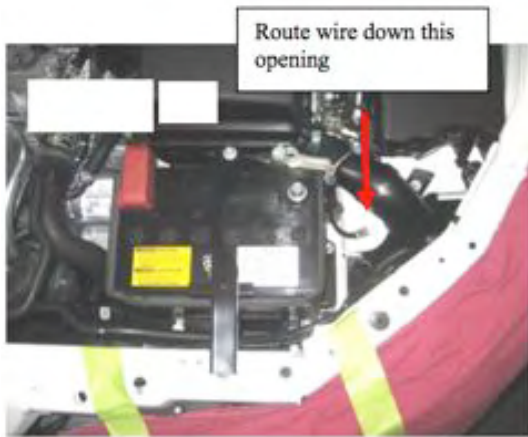
Picture 9

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



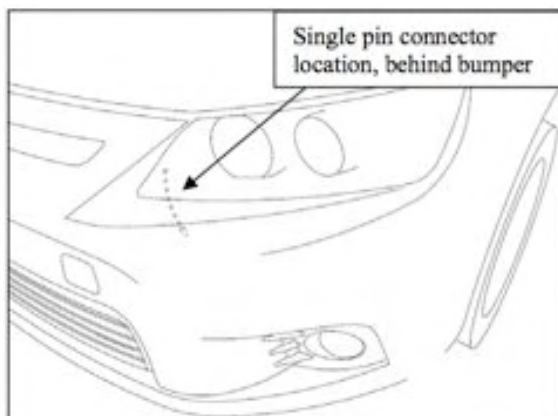
Picture 10

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



Picture 11

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



Picture 12

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



Picture 13

16. Check all connectors to make sure they are securely connected to lamps and vehicle

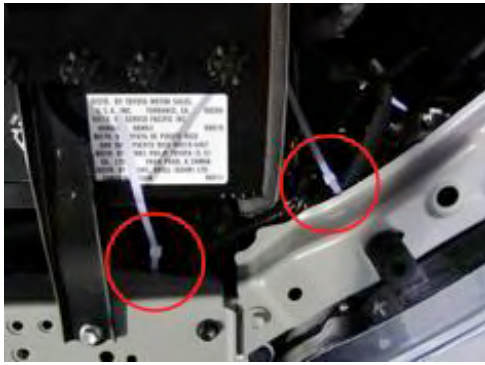
WIRE MANAGEMENT

17. Install all wire ties so that when they are trimmed they will not cut, pierce or otherwise damage existing components. The latching end of the wire tie should be kept away from hoses and wiring
18. On driver side of battery, use a wire tie to secure all 3 fog light wires to the existing wire that leads to ground (picture 14)



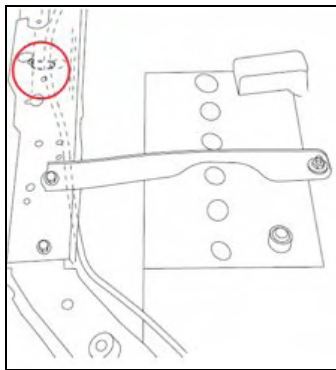
Picture 14

19. At front of battery, secure wire harness to hood-latch cable in two places, as shown (picture 15)



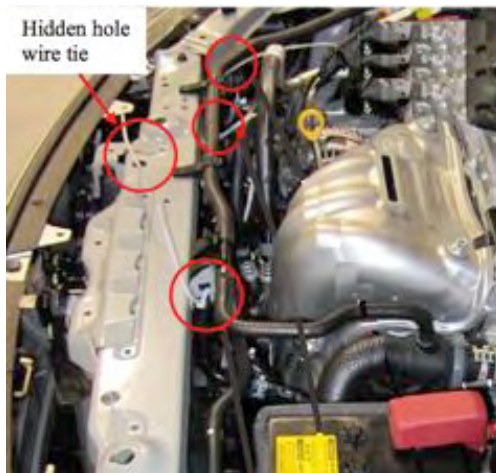
Picture 15

20. Locate hole in horizontal support. Route wire-tie through hidden hole in support and then loop back around wire harness to original hole (picture 16). Do not attach hood latch cable at this point.

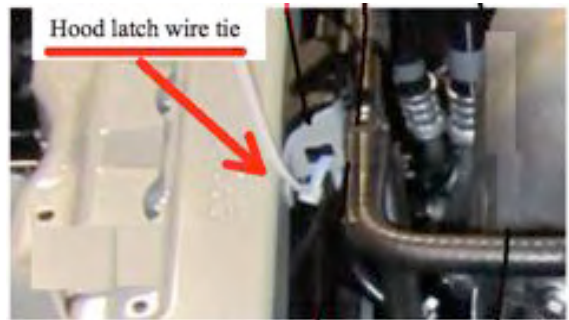


Picture 16

21. Loop wire-tie through one opening in the hood latch bracket and secure wire harness. Use visible and hidden hole in horizontal support to secure with wire harness, similarly to step 20 (pictures 17 and 18)

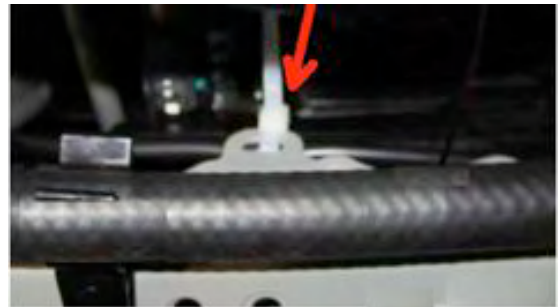


Picture 17



Picture 18

22. Locate hole in vertical surface of support under coolant overflow hose. Secure wire harness to this hole. Keep harness under horizontal support (picture 19)



Picture 19

23. Locate hole in vertical support. Secure harness to this hole (picture 20)



Picture 20

24. Locate existing wiring with corrugated tubing under passenger side headlight wire harness. Secure wire harness to this wire with a wire tie (pictures 21 and 22). Note: do not attach anything to the airbag wire harness



Picture 21



Picture 22

- 25. Locate mounting hole on windshield wiper fluid reservoir above and behind passenger side fog lamp. Secure wire harness to this mounting hole (picture 23)

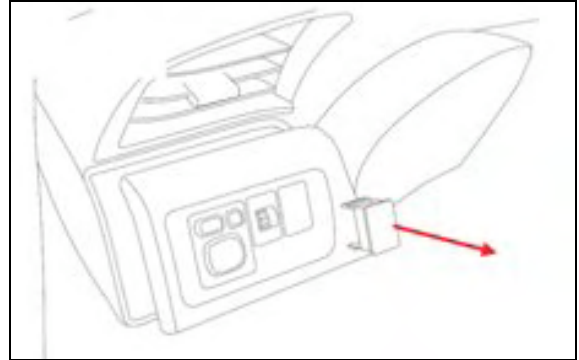


Picture 23

- 26. Trim all excess from wire ties.
- 27. Reattach fender liners

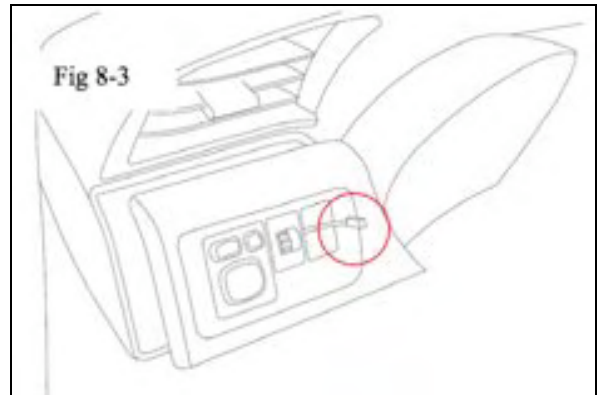
SWITCH INSTALLATION

- 28. With the aid of a nylon pry-tool, detach the mirror control panel and remove the right switch knock out from this panel (picture 24)



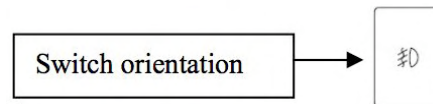
Picture 24

- 29. 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 25)



Picture 25

- 30. Mount switch into panel's knock out. Make sure that the graphic is in the indicated orientation (picture 26)



Picture 26

- 31. Reinstall mirror control panels

DIO ONLY: Steps 32 and 33. PIO go to step 34

32. DIO only: Remove the radio head unit, by disengaging the five clips and two claws in the instrument cluster finish panel (picture 27)



Picture 27

33. DIO Only: Using a 10mm wrench, remove the 4 bolts that hold the radio head unit in place. Disconnect the wire harness from head unit (picture 28)



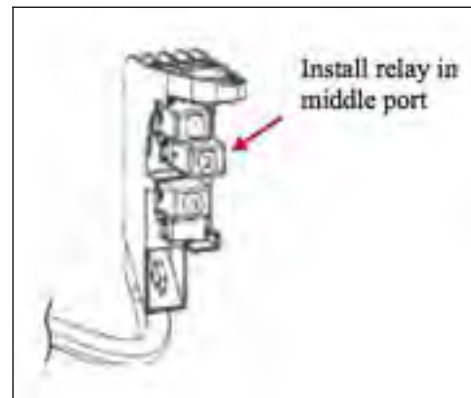
Picture 28

34. Loosen the screw holding the relay bracket in place, located behind the radio head unit (picture 29)



Picture 29

35. Raise bracket up and install the supply relay in the middle port of the relay bracket (second port from down to top) (picture 30)



Picture 30

36. Reinstall radio head unit and instrument cluster finish.
37. Reconnect negative cable of battery to the negative terminal of battery. Torque to 36in lbs.
38. Reinstall engine cover (removed in step 1)

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"

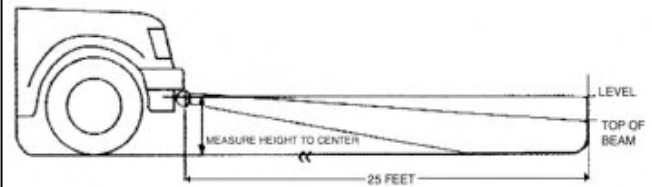
Fog Light Aiming

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 19)



Picture 19

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
- 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