

Part Number: PT857-52110

Fog Light Kit Contents

Item #	Quantity Req'd.	Description
1	1	Light Assembly, Fog Driver Side
2	1	Light Assembly, Fog Passenger Side
3	1	Mounting Hardware Bag
4	1	Hardware Bag

Mounting Kit Bag Contents

Item #	Quantity Req'd.	Description
1	6	Clips, 6mm U-Nut
2	6	Bolts, M6 TORX 25
3		

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	Switch, Fog Light

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Floor Protectors	
Special Tools	Notes
Installation Tools	Notes
Blanket	
Nylon pry tool	
Panel removal tool	
Phillips screwdriver	
Protective tape (masking)	
Ratchet	
Socket	10 mm
T-25 TORX bit socket	
Tin snip cutter	
Torque wrench	4.1 N-m (36 in-lbf)
Special Chemicals	Notes

NOTE: Part number of this accessory may not be the same as the part number shown.

General Applicability

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Recommended Sequence of Application

Item #	Accessory
1	TVIP
2	BLU Logic
3	Fog Lights

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description

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 to call 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.

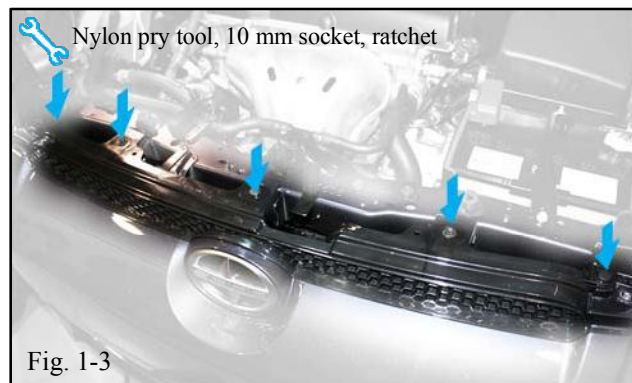
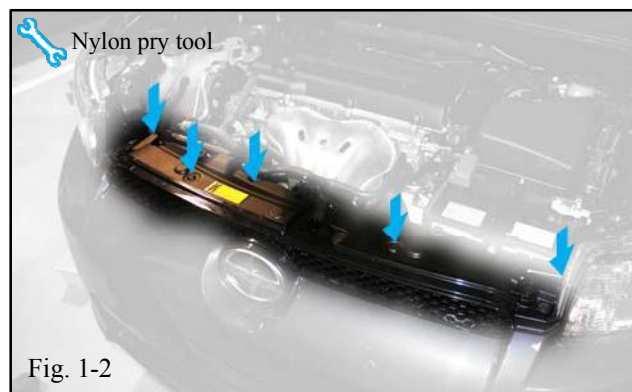
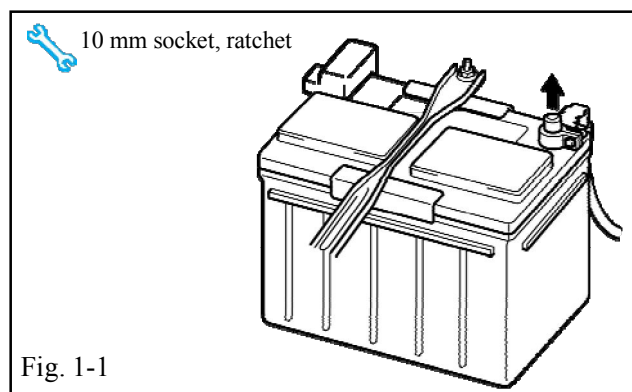
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.



NOTES

- STOP** Removed parts:
Place all removed parts on a protected surface.
 - Connectors:
STOP When disconnecting connectors, do not pull on the wires; pull on the connectors.
 - Lock ties:
STOP When using lock ties to secure harness, clip the lock ties after securing them.
 - Machine screws:
STOP Start all machine screws by hand.
- Back door lock cannot be released without reconnecting negative battery cable.

1. Vehicle Disassembly

- (a) Remove the negative battery cable.
(Fig. 1-1)

- STOP** (1) Protect the bumper and fender before starting.

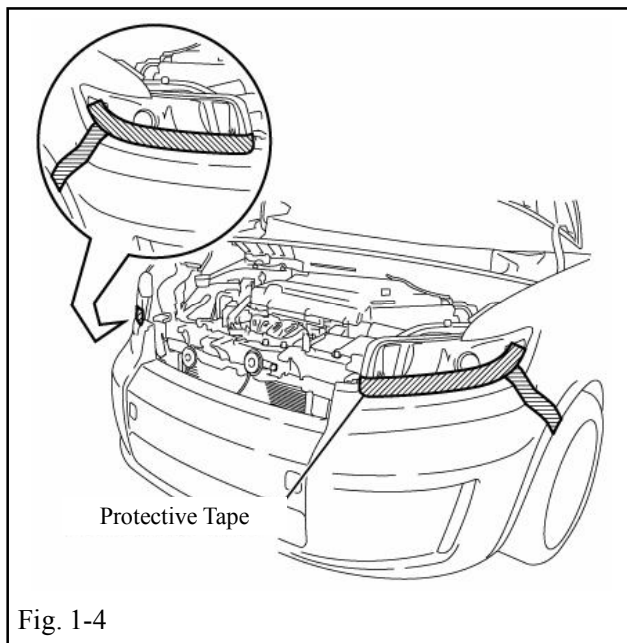
- +** (2) Do not touch the positive terminal with any tool when removing cable.

- (b) Remove five (5) clips from radiator cover.
(Fig. 1-2)

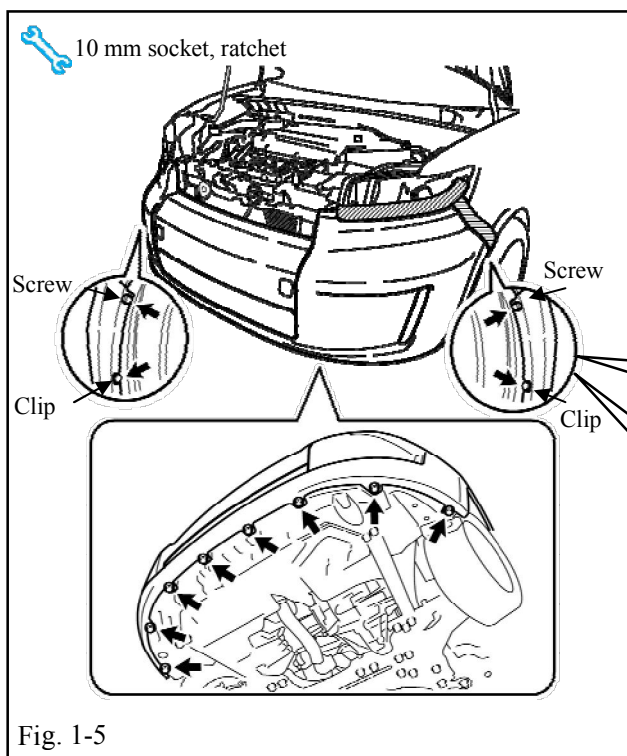
- (c) Remove radiator cover.

- (d) Remove three (3) clips and two (4) screws from upper bumper grill. (Fig. 1-3)

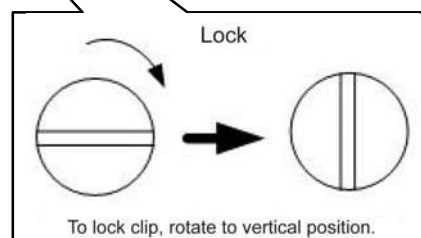
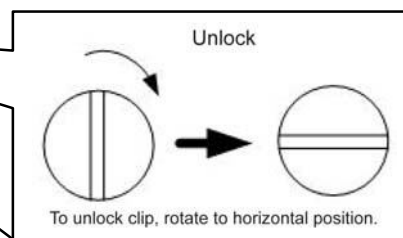
Note: The upper grill does not need to be removed from the front bumper fascia.

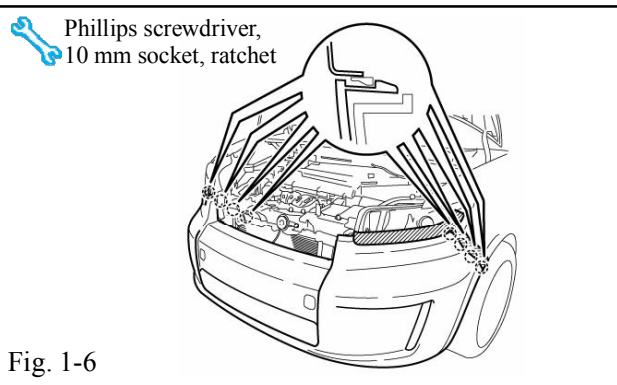


- (e) Apply protective tape to driver side and passenger side of fender, as shown.
(Fig. 1-4)

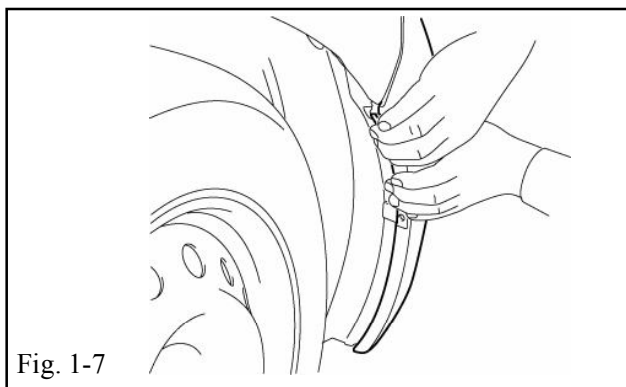


- (f) Remove eight (8) screws from undercover.
(g) Remove two (2) screws from inner fender.
(h) Remove two (2) clips by rotating clip from vertical position to horizontal position.
(Fig. 1-5)

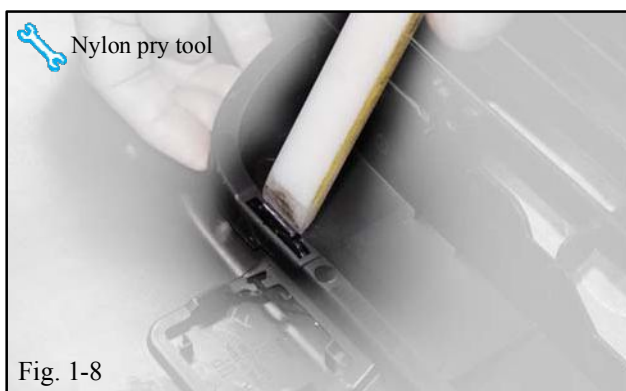




- (i) Carefully pull bumper fascia out to disengage.
- (j) Remove bumper fascia and place outer surface on clean protective blanket. (Fig. 1-6)

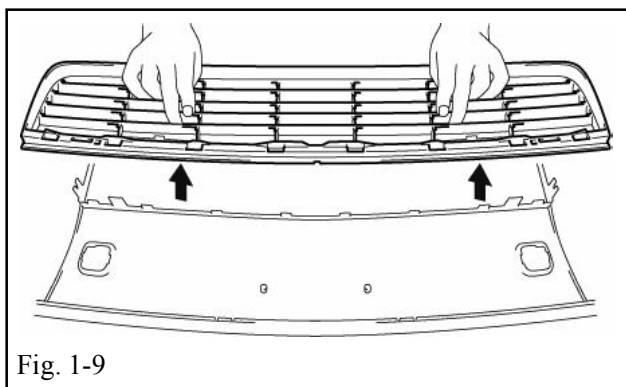


- (k) Carefully pull bumper fascia out on driver side and passenger side. (Fig. 1-7)

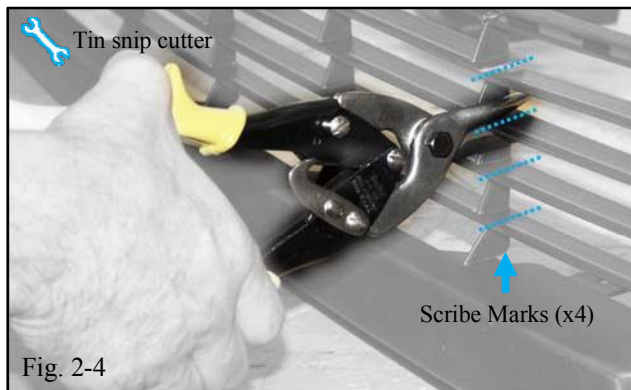
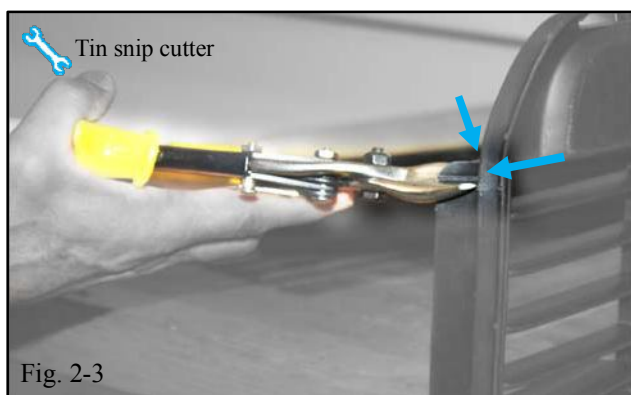
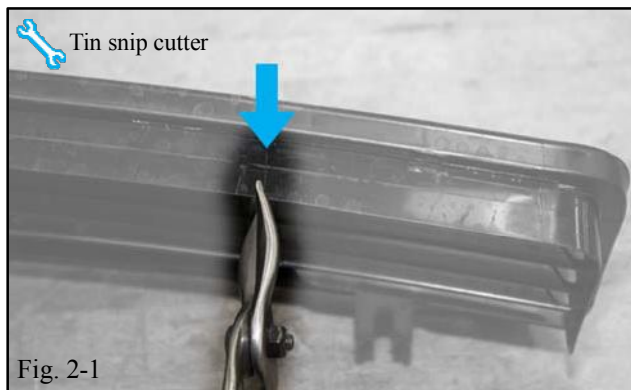


- (l) Place bumper on protective blanket.
- (m) To release the grill, use a nylon pry tool and carefully depress each tab one at a time while pushing the grill away from the bumper fascia. (Fig. 1-8)

Note: Start at one corner of the grill, and release the clips one at a time in rotation.

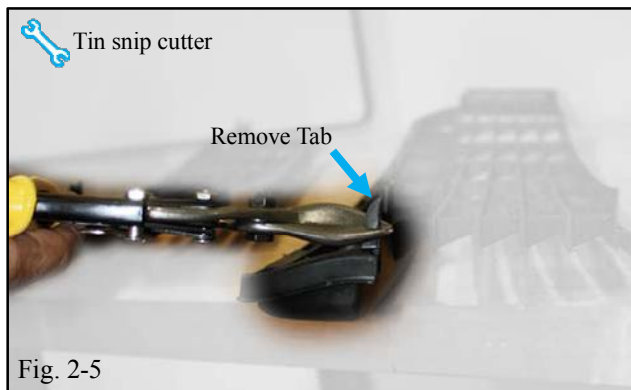


- (n) Remove grill from bumper fascia. (Fig. 1-9)

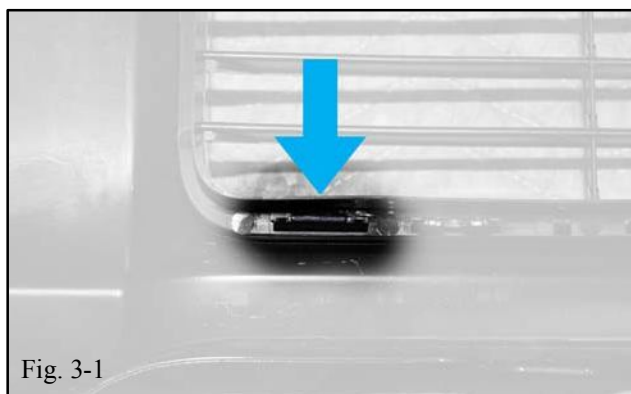


2. Cut Off Grill Ends

- (a) Note the square hole and scribe line at the bottom of the grill. Cut along the scribe line using a tin snip cutter. (Fig. 2-1)
- (b) Continue cutting through the outer portion of the square hole. (Fig. 2-2)
- (c) Cut along the scribe mark on the side of the grill. (Fig. 2-3)
- (d) Following the scribe marks in the grill, use a tin snip cutter to cut out the remaining four (4) inner grill bars. (Fig. 2-4)



- (e) Use tin snip cutter to cut off excess plastic. (Fig. 2-5)
- (f) Repeat this procedure for the other side.



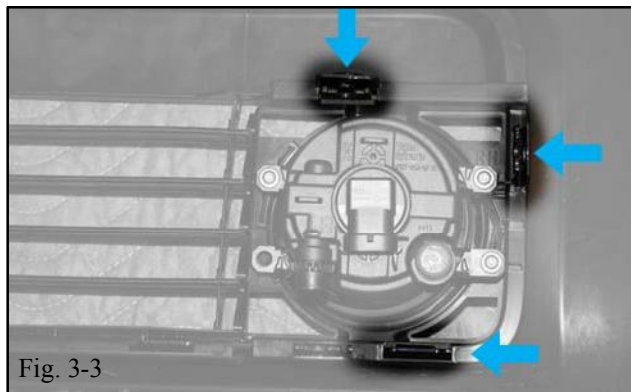
3. Fog Light Installation

- (a) Reinstall grill onto bumper fascia.
- (b) Secure grill by pressing down to engage the clips. (Fig. 3-1)

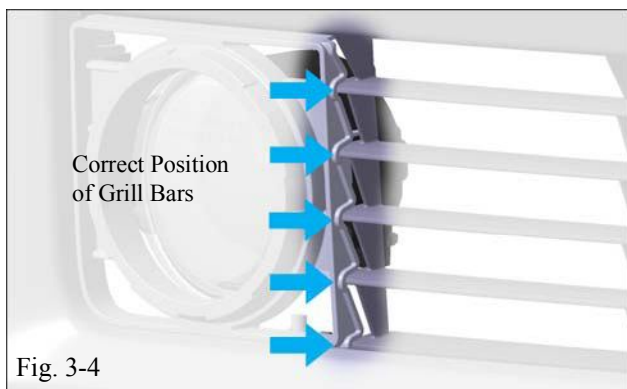
Note: Start at one corner of the grill, and seat the clips one at a time in rotation.



- (c) Install the left side fog light into the bumper fascia by sliding it in from the side. (Fig. 3-2)

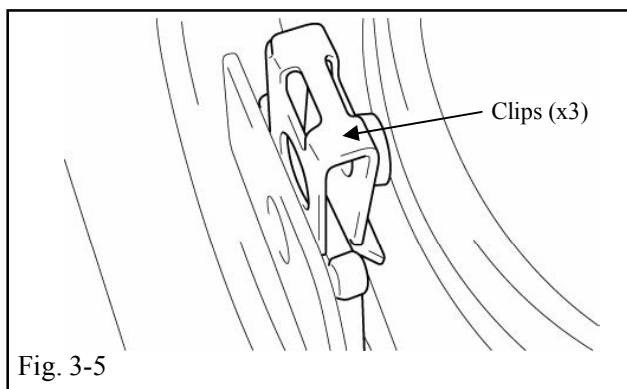


- (d) Make sure all three tabs are correctly inserted into bezel. (Fig. 3-3)



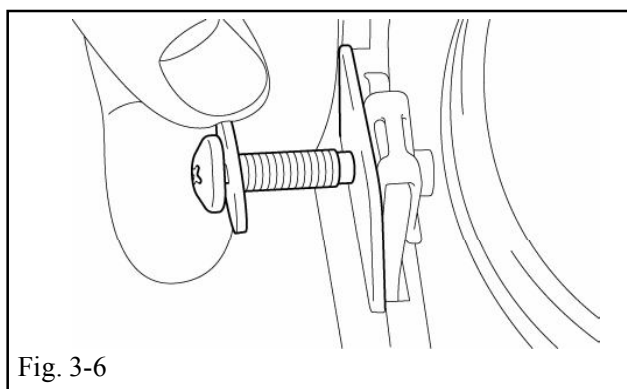
Note: Be sure that the inward side of the fog light is installed in front of the grill bars.

(Fig. 3-4)



(e) Install by hand three (3) clips on the tabs with threaded portion facing the bezel.

(Fig. 3-5)



(f) Loosely install the three (3) TORX head screws. (Fig. 3-6)



(g) Repeat steps 3(c) through 3(f) for right side light. (Fig. 3-7)

(h) Tighten all six (6) TORX screws.

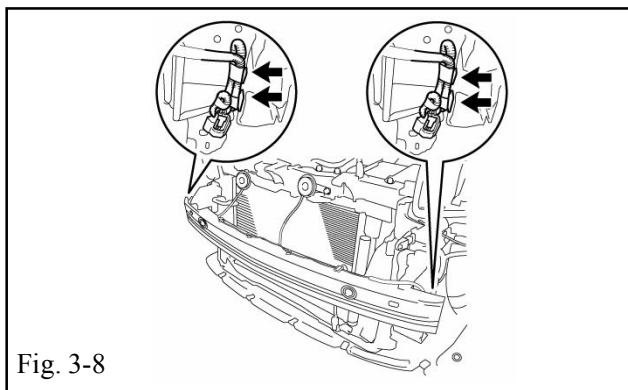


Fig. 3-8

- (i) Locate the vehicle fog light electrical connectors on right and left sides.
- (j) Plug the connectors into the lights on bumper/grill assembly. (Fig. 3-8)
- (k) Carefully reinstall bumper fascia.
- (l) Remove tape. ||

Note: Do not install screws until after function check.

4. Switch Installation



- (a) Carefully pull rearward on lower portion of lower instrument panel. (Fig. 4-1)
- (b) Disconnect any electrical connectors and remove lower instrument panel.



Fig. 4-1

- (c) Locate the 5-pin vehicle connector attached to the vehicle harness with breakaway tape. (Fig. 4-2)

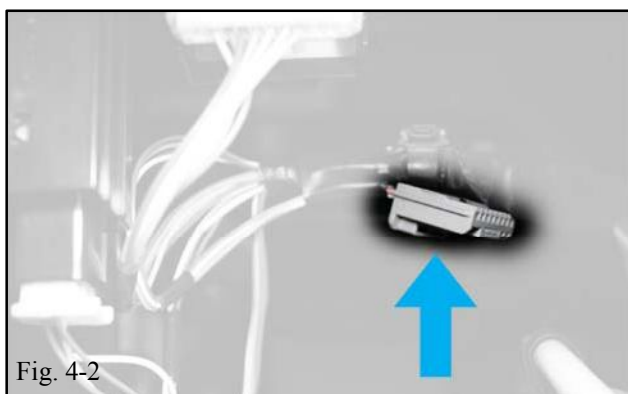


Fig. 4-2

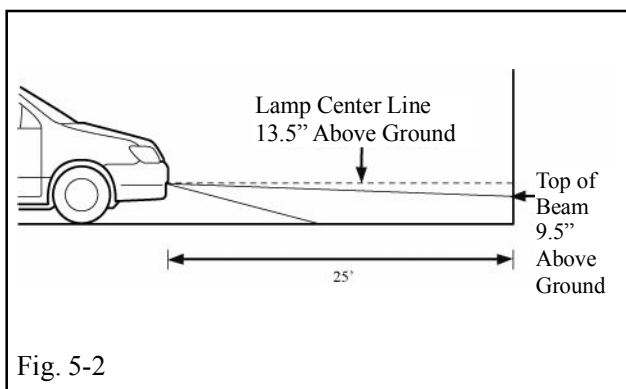
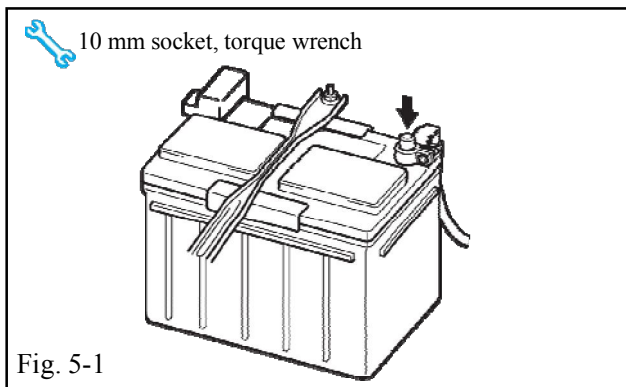
- (d) Remove the far left knock out. (Fig. 4-3)



- (1) Install the switch in orientation shown.
- (e) Connect the 5-pin connector to the switch.



Fig. 4-3



5. Reconnect Battery Cable

(a) Reconnect the vehicle's negative battery cable. (Fig. 5-1)

(1) Position the negative terminal to the battery as shown (original factory position).



(2) Tighten the nut to 4.1 N-m (36 in-lbf).



(3) Do not touch the positive terminal with any tool when installing the cable.

(b) In process function check:



(1) Turn on head lights in low beam.

(2) Turn on fog lights.

(3) Confirm fog lights turn on.

(4) Confirm fog lights turn off.

(5) Check alignment. (Fig. 5-2)

6. Complete Reassembly of Vehicle

(a) Reassemble bumper with hardware screws and clips.

(b) Reassemble grill and radiator cover.

(c) Reassemble lower instrument panel.



(d) Verify the panels fit together properly with no uneven gaps between them.

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:

Look For:

Accessory Function Checks

☐ Fog lights

- Fog lights operate properly
- Fog lights are off when high beams are on

Vehicle Function Checks

☐ Head lights

- Head lights operate properly

☐ Switches on lower instrument panel

Reconnected switches operate properly