

Section I - Installation Preparation

Part Number: 81025-52080

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Fog Light Assembly, RH
2	1	Fog Light Assembly, LH
3	1	Switch, Fog Light
4	1	Relay, Fog Light
5	1	Harness, Fog Light
6	1	Installation Instructions

Hardware Bag Contents

Item #	Quantity Req'd.	Description

Additional Items Required For Installation

Item #	Quantity Req'd.	Description

Conflicts

Note:

Recommended Tools

Safety Tools	
Vehicle Protection	Blanket/tape
Special Tools	
Beam Setter	Hella Photometric Beam Setter (or equivalent)
Installation Tools	
Socket	10 mm
Wrench	10 mm
Ratchet	
Ratchet Extension	
Torque Wrench	
Screwdriver	Phillips #2
Screwdriver	Flat Blade, Small
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Special Chemicals	
None	

General Applicability






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Recommended Sequence of Application

Item #	Accessory	
1	TVIP	
2	Satellite Receiver	
3	Audio	
4	Subwoofer (SB)	
5	Fog Light	

*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.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: Calls out the specific tools and equipment recommended for this process.

Section II - Installation Procedure

NOTES

Removed Parts:-



Place all removed parts on a protected surface.

Connectors:-



When disconnecting connectors, do not pull on the wires; pull on the connectors.

Wire Ties:-



When using wire ties to secure harness, clip the wire ties after securing them.

A. Remove Battery Cable.

1. Remove the negative battery cable. (Fig. A1)



i. Protect the fender before starting.



ii. Do not touch the positive terminal with any tool when removing cable.

B. Install Fog Lights.

1. Starting installation on passenger side.



2. Turn the steering wheel until it stops at full lock allowing access to the back of the front fender. (Fig. B1)

3. Remove the screw securing the fender liner. (Fig. B2)



i. Carefully pull and loosen the fender liner. (Fig. B2)

4. Reaching from the back of the fender, push ([2]) the fog lamp knock out cover while pressing in its retaining claw located on the back of the cover ([1]) to remove. (Fig. B3)

i. Discard knock out cover.

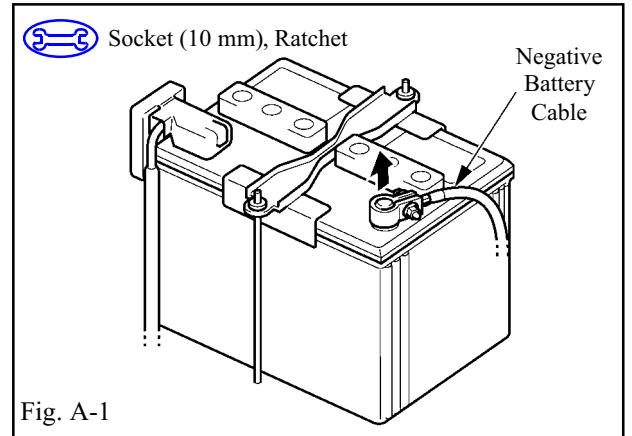


Fig. A-1

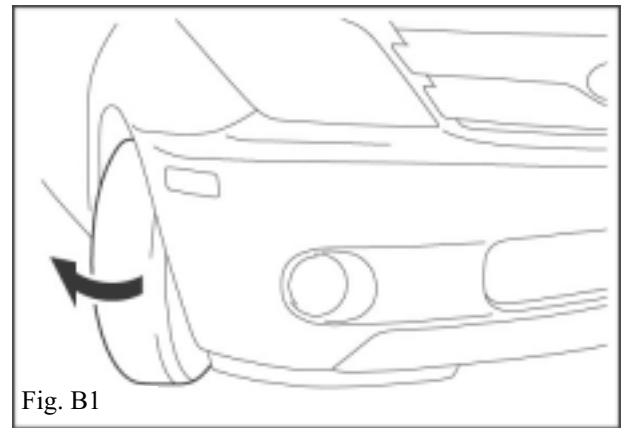


Fig. B1

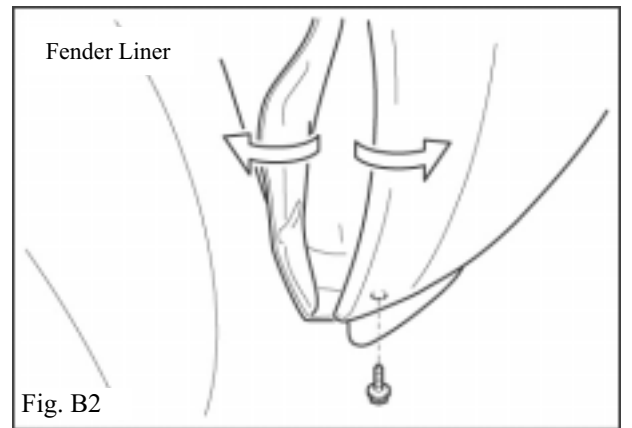


Fig. B2

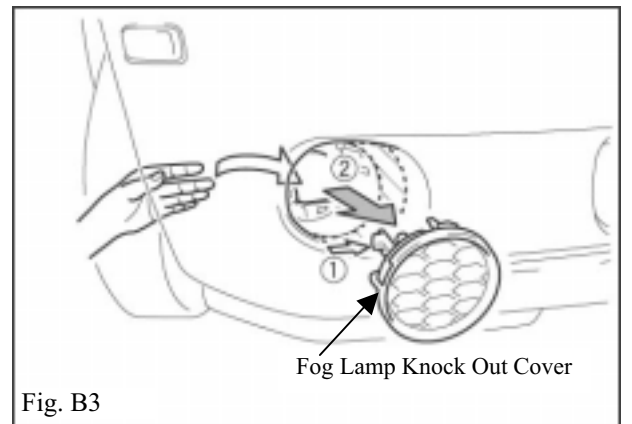


Fig. B3

Section II - Installation Procedure

➔ 5. Install the fog light assembly RH to opening.
(Fig. B4)

➔ 6. Repeat Steps B. 2.to B. 5 for driver side.

C. Install Fog Light Harness.

1. Starting installation on driver side.

➔ 2. Route the fog light wire harness through to the underside of the LH headlight assembly at the positions shown. (Fig. C1)

3. Connect the 1P connector (fog light wire harness) to vehicle side 1P connector as shown. (Fig. C1)

4. Connect the 2P connector (fog light wire harness) to fog light assembly LH. (Fig. C2)

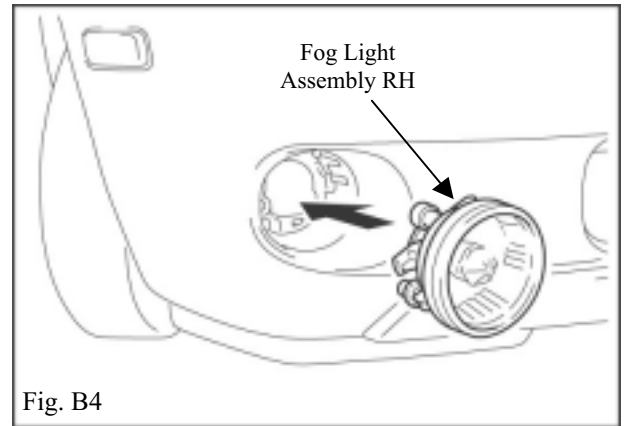


Fig. B4

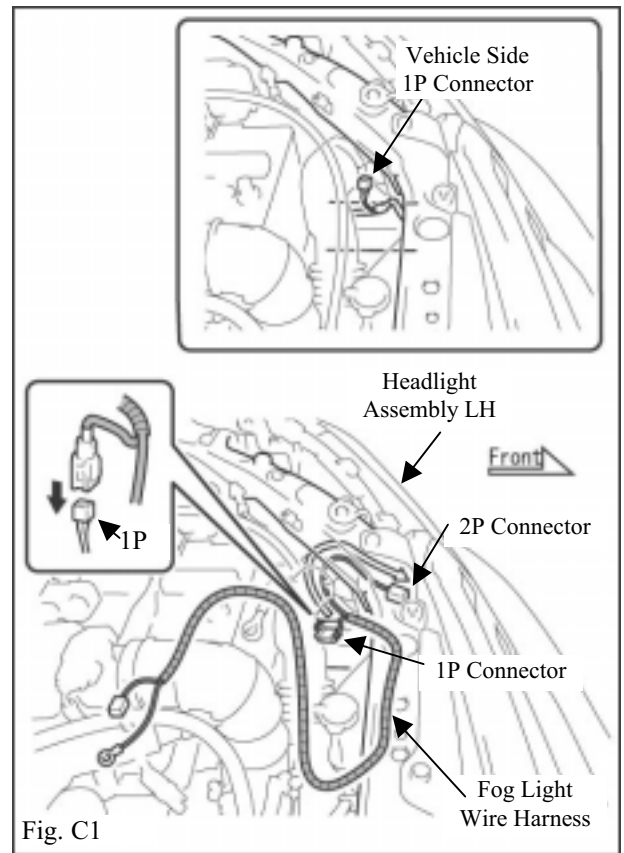


Fig. C1

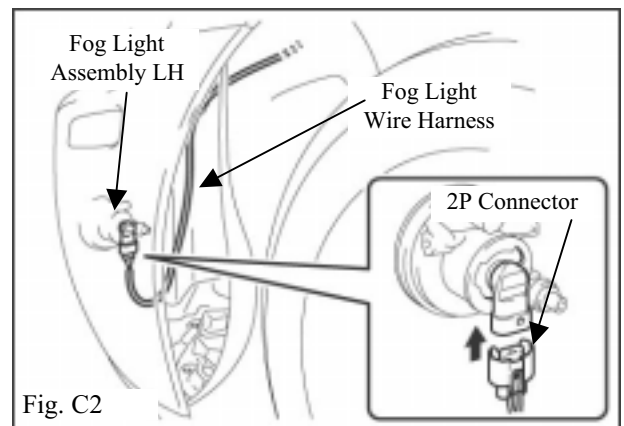


Fig. C2

Section II - Installation Procedure

- ➔ 5. Route the fog light wire harness through inside of the radiator support upper to right side. (Fig. C3)
- ➔ 6. Route the fog light wire harness along main vehicle harness to chassis ground bolt as shown. (Fig. C4)
- ➔ 7. Remove and insert the chassis ground bolt through the ring terminal of fog light wire harness. (Fig. C4)
- ➔ 8. Route the fog light wire harness through the hole below headlight along vehicle harness. (Fig. C5)
- ➔ 9. Secure the fog light wire harness to vehicle harness with three tie straps at positions shown. (Fig. C5)
- 10. Connect the 2P connector (fog light wire harness) to fog light assembly RH. (Fig. C6)

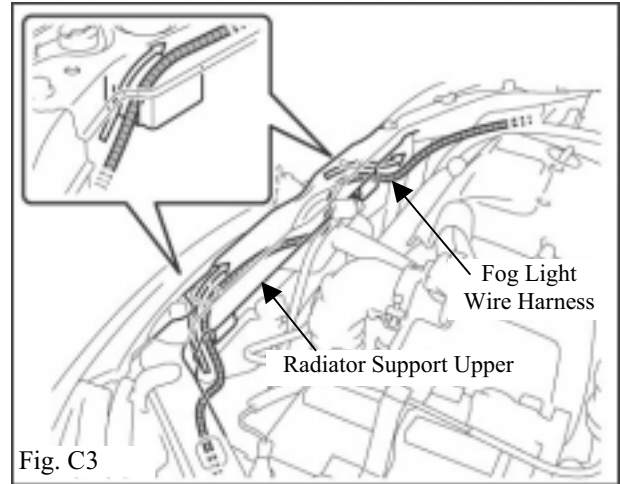


Fig. C3

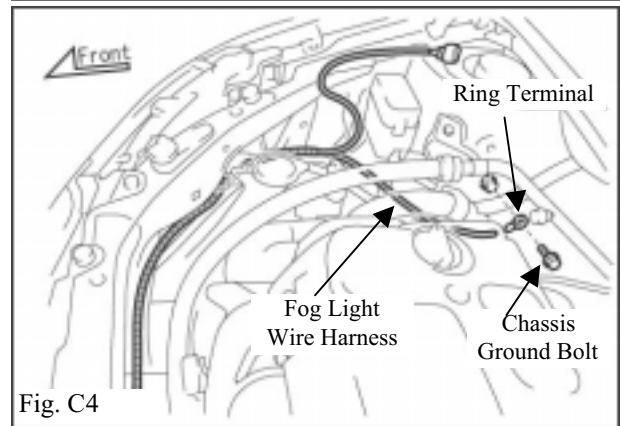


Fig. C4

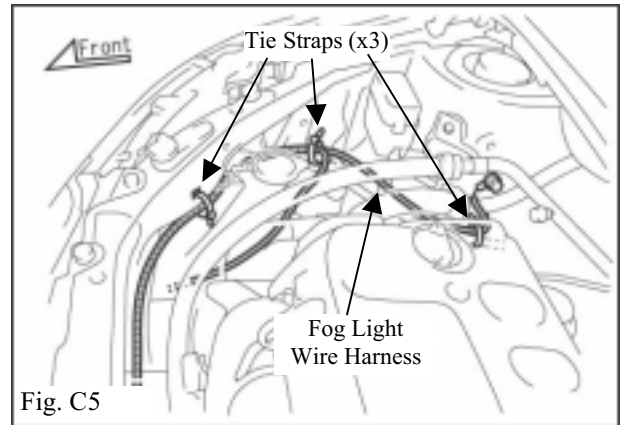


Fig. C5

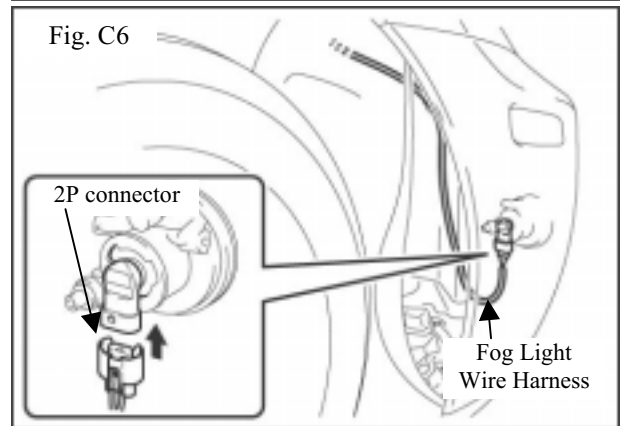


Fig. C6

Section II - Installation Procedure

- ➔ 11. Secure the fog light wire harness to radiator support upper with four (4) tie straps at positions shown. (Fig. C7)

D. Install Fog Light Switch.

1. Remove the instrument panel cover. (Fig. D1)
- ➔ 2. Remove and discard far right knock out cover from mirror control panel position shown. (Fig. D1)
- ➔ 3. Locate the 4P connector secured with vehicle wire harness as shown. Pull the 4P connector through opening. (Fig. D2)
4. Connect the 4P connector to the fog light switch. (Fig. D2)
- ➔ 5. Correctly orientate switch in hole as shown. (Fig. D2)

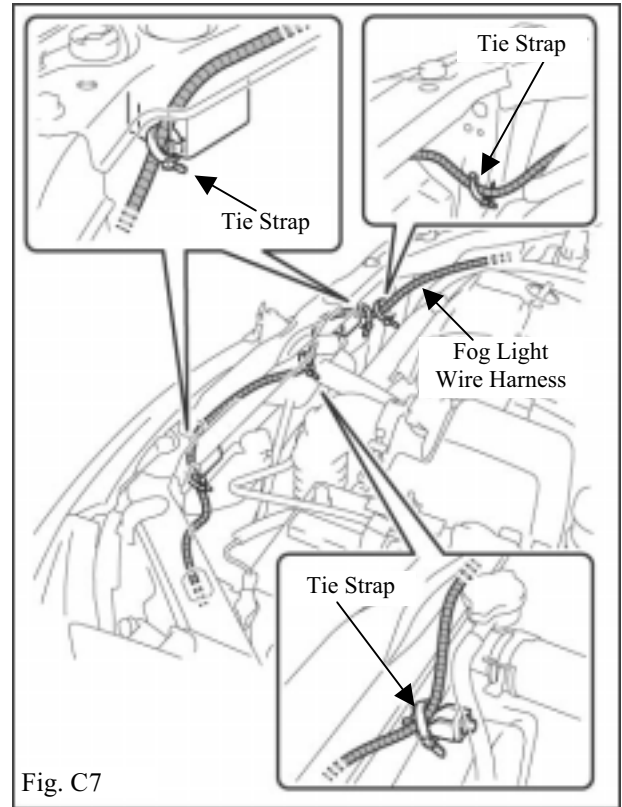


Fig. C7

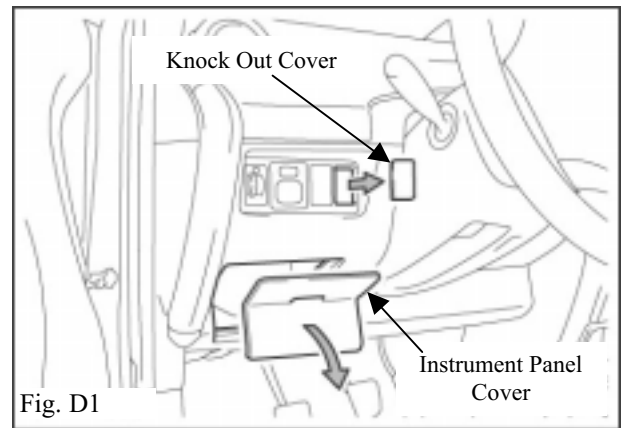


Fig. D1

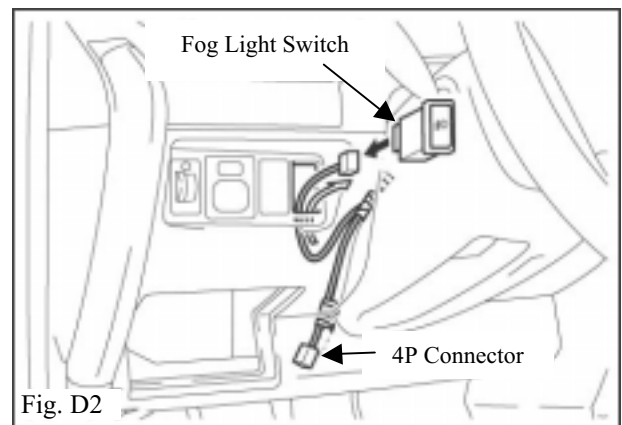





Fig. D2


Section II - Installation Procedure

6. Determine proper relay location. (Fig. D3)
7. Install kit supplied relay into the relay block. (Fig. D3)





E. Reconnect Negative Battery Cable.

1. Reconnect the vehicle's negative battery cable. (Fig. E1)
 -  i. Position the negative terminal to the battery as shown (~45 deg.).
 -  ii. Tighten the nut to 4.1 N-m (36 lbf-in).
 -  iii. Do not touch the positive terminal with any tool when replacing the cable.

F. Reassemble Fender Liners.

1. Replace the fender liner.
 -  i. Replace and tighten the screw securing the fender liner on both sides of the vehicle.

G. Aiming Instructions.

-  1. Position vehicle on flat surface at a distance of 25 feet (7.6 m) from the fog light to the wall. (Fig. G1)
-  i. Measure the distance from the center of the lamp to the ground and mark off the same height on the wall. This is your fog light centerline.
-  ii. Adjustment of the fog lights is done by turning the adjustment screw using a Phillips screwdriver.
-  iii. Turn on the fog lights and adjust them so that the top of the beam (high intensity portion) falls 4 inches (102 mm) below the top mark on the wall (fog light centerline).

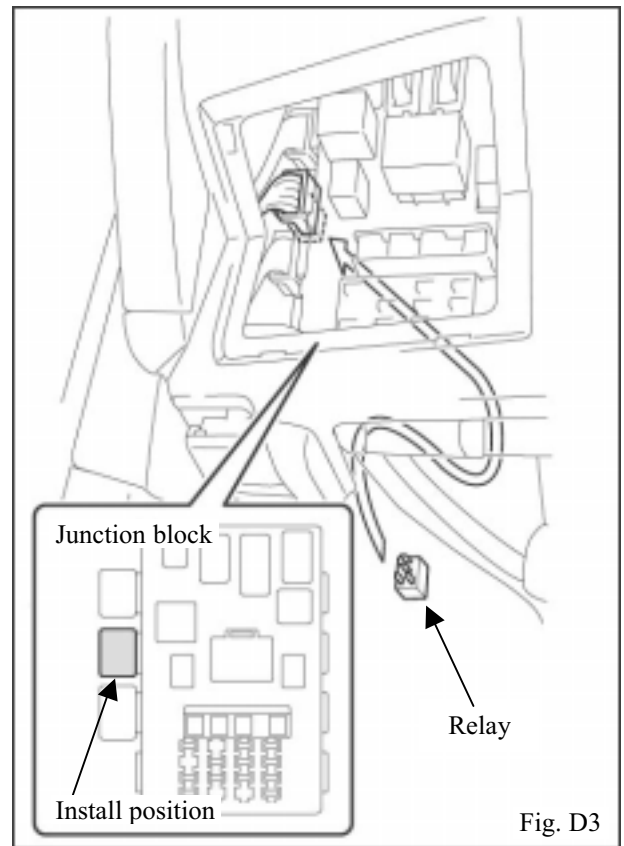


Fig. D3

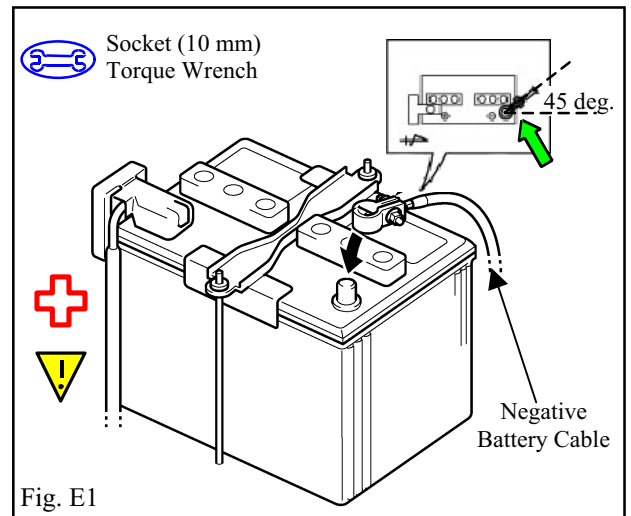


Fig. E1

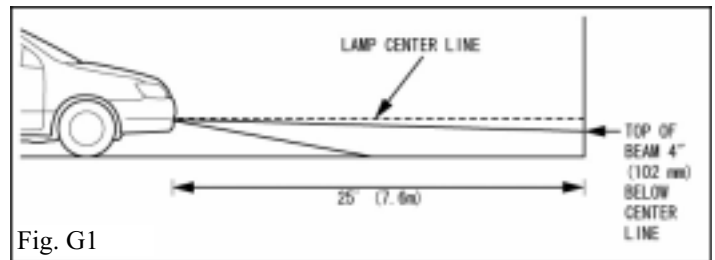
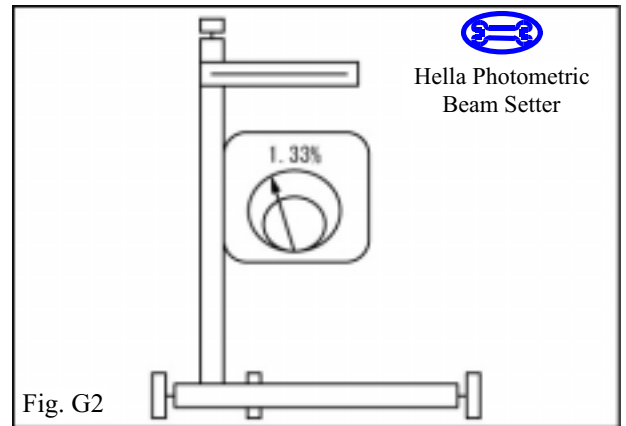


Fig. G1

Section II - Installation Procedure

- ➔ 2. Alternate aiming method: Use Hella Photometric Beam Setter (or equivalent) to correctly align fog light beam. (Fig. G2)
 - ➔ i. Adjustment of the fog lights is done by turning the adjustment screw using a Phillips screwdriver.
3. Repeat for other side.





Section III - Functional Verifications

Check: _____

Accessory Function Checks

- Turn on headlights.
- Turn on fog lights.
- Turn off headlight.

- Check fog light switch orientation.
- Switch on high beams.
- Check dashboard lights and dimmer function.

Look For: _____

- Headlights "ON."
- Fog lights "ON."
- Fog lights are not "ON" with headlights "OFF."

- Lamp symbol facing left.
- High beams "ON"/Fog lights "OFF".
- Low beams "ON"/Fog lights "ON."

Vehicle Function Checks

- Check taillights.
- Turn off headlights.
- Check brake lights.
- Check turn signals.
- Check reverse lights.
- Check emergency flashers.
- Check clutch switch, push and hold switch and start vehicle (MT models only).

- Taillights "ON."
- Headlights "OFF."
- Brake lights "ON."
- Turn signals "ON."
- Reverse lights "ON."
- Emergency flashers "ON."
- Vehicle starts.



- Check battery terminals for tightness with 10 mm socket.

Terminals are tight.