TOYOTA   **VENZA 2009 -**   **IMPACT SENSOR**

Part Number: 00016-47031
Accessory Code: QG1

TOYOTA
Southeast Toyota Distributors, LLC

Conflicts

Vehicles without factory security.

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Security Interface Module
2	1	Shock Sensor
3	1	Main Harness
4	1	Hardware Bag
5	2	Anti-Theft Window Decals
6	1	Owner's Card
7		
8		

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	3	Red T-Tap Terminal
2	12	8" Black Cable Ties
3	1	Foam Mounting Pad
4	1	Red Scotchlok Connector
5		
6		
7		
8		

Recommended Tools

Safety Tools	
Safety Glasses	
Vehicle Protection	
Special Tools	
Installation Tools	
Philips Screwdriver	Drill Motor
Ratchet with Extension	10mm Socket
Diagonal Wire Cutters	Common Pliers
Flashlight	Nylon Trim Tool
Torque Wrench 36 in-lb	
Special Chemicals	

Vehicle Service Parts (may be required for reassembly)

P/N	Qty.	Description
00016-47031-03	1	Interface Control Module
00016-30960-02	1	Shock Sensor Module
00016-47031-02	1	Miscellaneous Hardware Kit
00016-30960-03	2	Window Warning Decal
00016-47031-01	1	Wire Harness

General Applicability

Vehicles with factory security

Recommended Sequence of Application

Item #	Accessory	
1		
2		
3		

* 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.

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.

PREPARATION

INSTALLATION PREPARATION

Before starting installation:
1. Familiarize yourself with the installation instructions.
2. Inspect kit components.

VEHICLE PREPARATION

Verify that the vehicle shorting pin is installed prior to installation.

1. Place protective coverings on vehicle.
2. Disconnect negative battery clamp.

3. Remove the passenger's side scuff plate by inserting a plastic panel tool under the scuff plate and prying upward to disengage the snap clips.

Optional Step: Insert a plastic tool under the front of the scuff plate and passenger's side kick panel. Lift only that area.

4. Remove the nut that secures the passenger's side kick panel.

5. Remove the passenger's side kick panel by inserting a plastic panel tool under the kick panel and carefully prying to disengage the snap clips.

6. Remove the 10mm bolt from the right side and the Philips screw from left side of the passenger's side finish panel. Pull the finish panel outward from the vehicle dash to disengage the snap clips.

NEGATIVE BATTERY CABLE
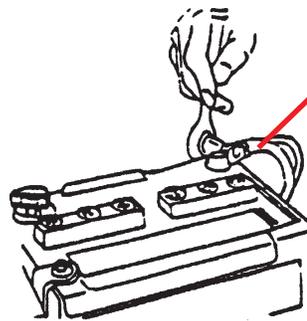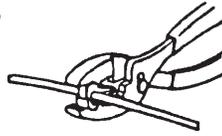
INSTALLATION PROCEDURES

T-TAP INSTALLATION

When installing female T-Tap connectors, be sure the wire is located inside the wire channel of the female T-Tap connector before closing the connector over the wire with pliers.
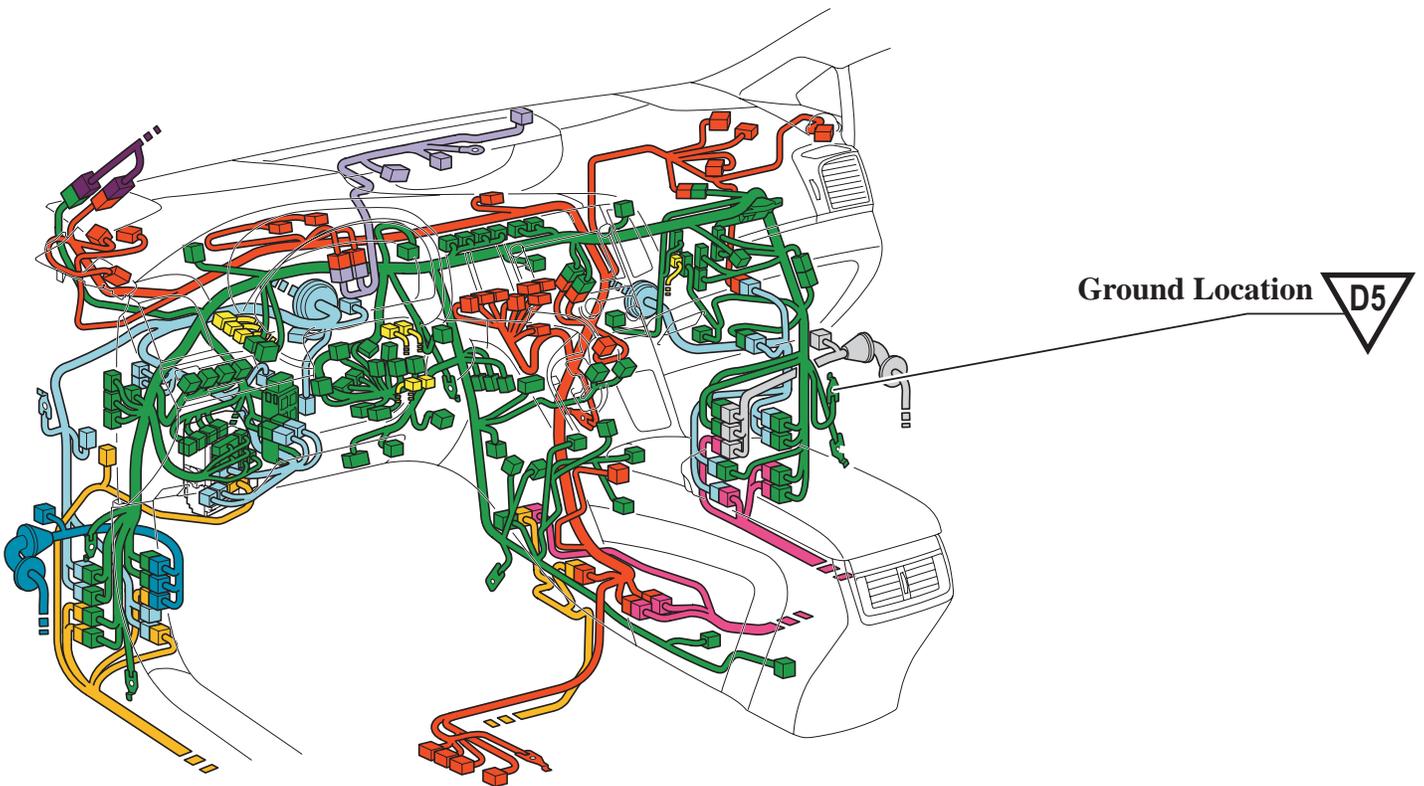
Step A

T-Tap

Step B

Step C

Wire from main keyless harness

🛑 **STOP** **IMPORTANT! After installation, inspect and ensure that Keyless System Harnesses are clear of all HOT, SHARP or MOVING objects.**
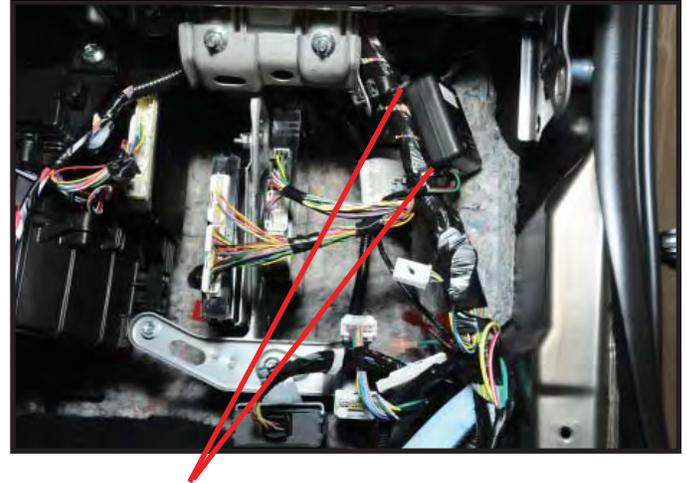
Ground Location ▽ D5

INSTALLATION PROCEDURES

INSTALLING THE SHOCK SENSOR

1. Secure shock sensor to wire loom running near the firewall on the passenger's side with (2) wire ties.
2. Plug in 4 cavity Molex connector from the main harness into the rear of the shock sensor.

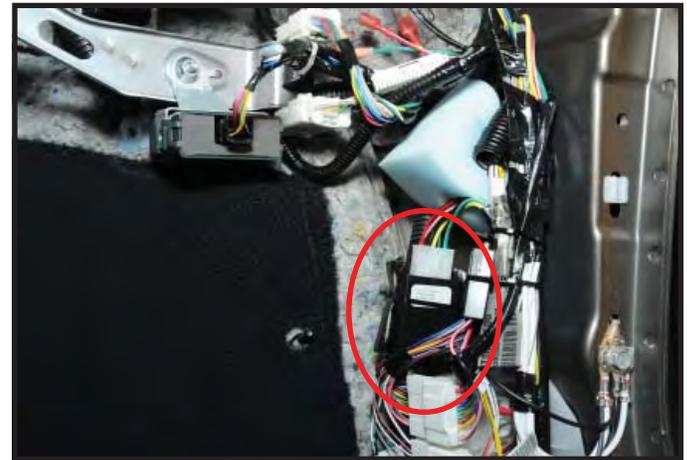⚠ **Guide the cable tie through the module eyelets, as shown.**

CABLE TIES

INSTALLING THE ALARM INTERFACE RELAY

1. Plug in 10 way Molex connector from the main harness into the Alarm Interface Relay.
2. Secure Alarm Interface Relay to factory harness in the passenger's side kick panel using (1) wire tie.
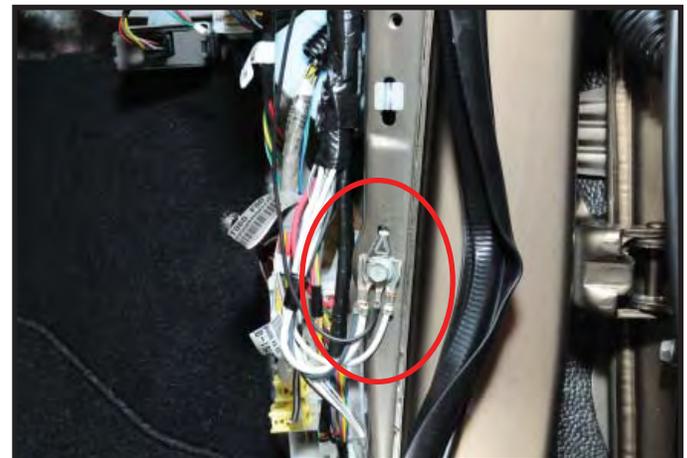
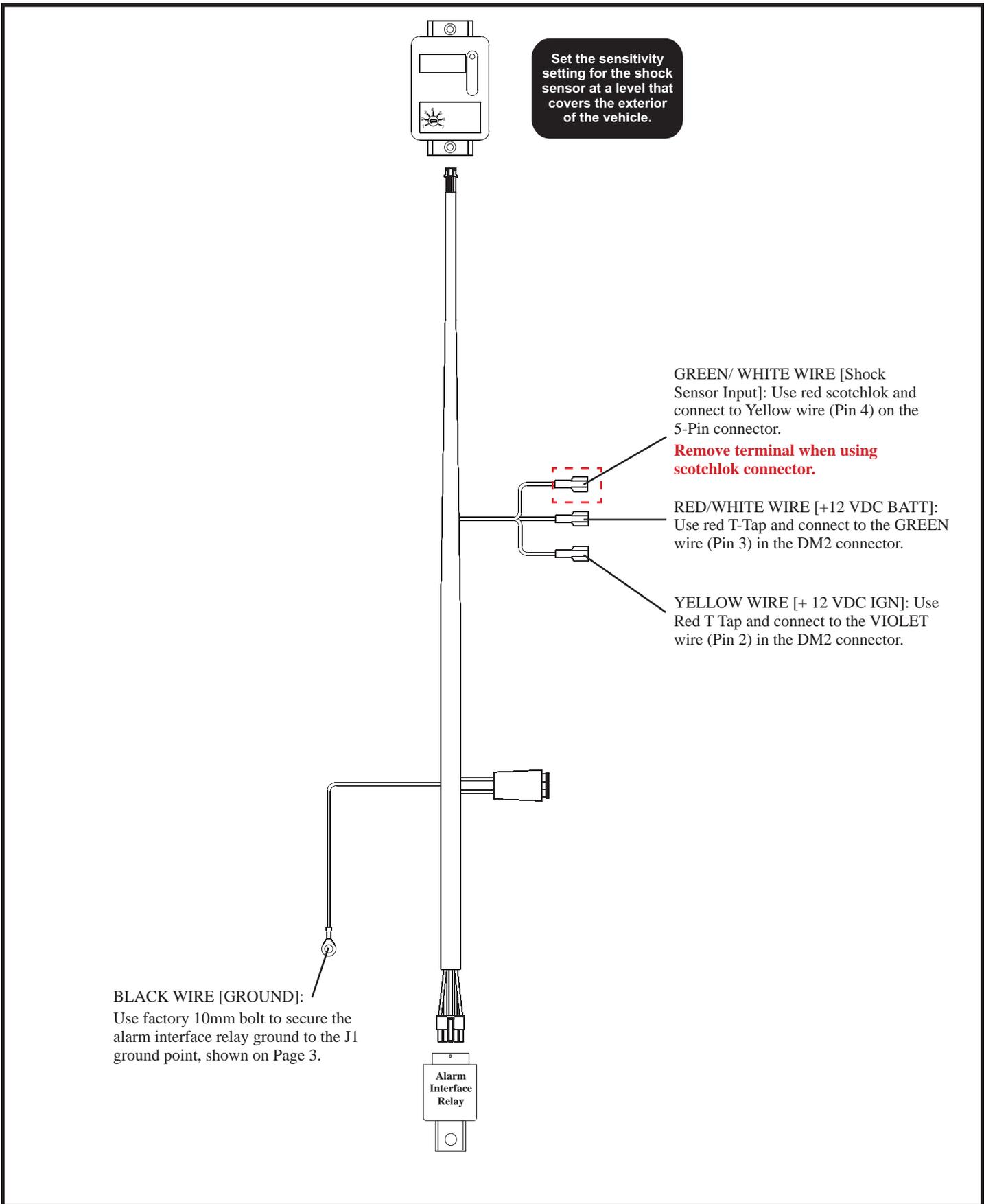⚠ **Carefully follow the wiring diagram and factory details on pages 4-5**.

SECURING THE ALARM INTERFACE GROUND CONNECTION

Use the factory 10mm bolt to secure the alarm interface relay ground to the J1 ground point, shown on Page 3.

WIRING DIAGRAM

Set the sensitivity setting for the shock sensor at a level that covers the exterior of the vehicle.

GREEN/ WHITE WIRE [Shock Sensor Input]: Use red scotchlok and connect to Yellow wire (Pin 4) on the 5-Pin connector.
Remove terminal when using scotchlok connector.

RED/WHITE WIRE [+12 VDC BATT]: Use red T-Tap and connect to the GREEN wire (Pin 3) in the DM2 connector.

YELLOW WIRE [+ 12 VDC IGN]: Use Red T Tap and connect to the VIOLET wire (Pin 2) in the DM2 connector.

BLACK WIRE [GROUND]: Use factory 10mm bolt to secure the alarm interface relay ground to the J1 ground point, shown on Page 3.

Alarm Interface Relay

CONNECTOR DETAILS

5-PIN CONNECTOR | ## CONNECTOR DM2

Location: Passenger's Kick Panel (Taped to Main Harness)

White Connector

Pin 4
Yellow Wire
Shock Sensor Input

ALARM	CAR
Green/White	Yellow

Location: Passenger's Kick Panel

White Connector
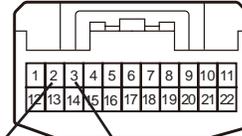
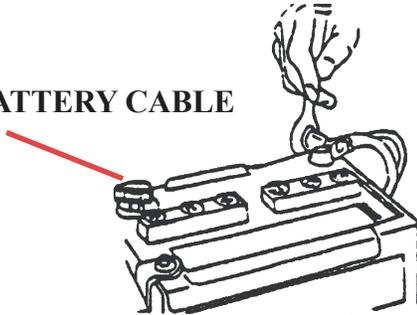Pin 2
Violet Wire
+12 VDC IGN

Pin 3
Green Wire
+12 VDC BATT

ALARM	CAR
Red/White	Green
Yellow	Violet

COMPLETING THE INSTALLATION

NOTE: Re-torque the battery cable to 36 in-lb once the process is completed.

NEGATIVE BATTERY CABLE

⚠️ **Verify that the vehicle shorting pin is installed prior to testing.**

TESTING THE SYSTEM

1. Prior to delivering the vehicle, test all features of the factory system according to the vehicle's owner's manual.

2. Be sure to arm the system by pressing the LOCK button on the keyless entry transmitter. The factory security light will turn on solid for approximately 30 seconds, then begin to flash indicating the system is armed. At this time, deliver a firm strike to the driver's A Pillar with the open palm of the hand. The alarm should trigger as a result of the shock sensor.

ASSEMBLING ALL REMOVED PANELS TO THE VEHICLE

1. Refer again to the vehicle repair manual and reassemble all panels removed during installation back onto the vehicle.

2. Apply the window warning decals to the driver side and passenger side front windows, just above the anti - theft radio stickers if equipped. If not equipped, apply the decals at the lower rear edge of the window. The decals are reverse printed, and are applied to the inside surface of the glass.

3. Place owner's card in glove box.

NOTE: Factory remotes should minimum of 10ft away from ignition during testing.

VEHICLE FUNCTION CHECK

AFTER ALL PANELS, COVERS, AND COMPONENTS HAVE BEEN REINSTALLED, THAT WERE REMOVED, TEST THOROUGHLY, ALL MECHANICAL AND ELECTRICAL COMPONENTS DISCONNECTED AND OR REMOVED FROM THE VEHICLE DURING THE INSTALLATION OF THIS ACCESSORY.

VEHICLE FUNCTION CHECKLIST

THESE POINTS MUST BE CHECKED TO ENSURE A QUALITY INSTALLATION

- ☐ Head Light
  If the warning lights remains on, it may indicate a system malfunction.
- ☐ High Beams
- ☐ Turn Signal Lights
- ☐ Tail Lights
- ☐ Stop Lights
- ☐ Backup Lights
- ☐ Hazard Lights
- ☐ Marker Lights
- ☐ Dome/Courtesy Lights
- ☐ Panel/Switch Illumination
- ☐ Accessory Controls/Illumination (if equipped)
- ☐ Rear Window Defogger (if equipped)
- ☐ Key Sensor Buzzer
- ☐ Fog Lights (if equipped)
- ☐ Day Time Running Lights (if equipped)
- ☐ Trunk/Tailgate/Bed Lights (if equipped)
- ☐ Glove Box Light (if equipped)
- ☐ ABS Light (if equipped)
- ☐ Rear Wiper/Washer (if equipped)
- ☐ Clock (if equipped)
- ☐ Accessory Power Socket (if equipped)
- ☐ Starter
- ☐ Audio/Video (if equipped)
- ☐ Power Sliding Door if equipped)
- ☐ Convenience Memory Settings (if equipped)
- ☐ Heated Seats (if equipped)
- ☐ Massage Seats (if equipped)

- ☐ Power Side Mirrors (if equipped)
- ☐ Side Mirror Defogger (if equipped)
- ☐ Front Windshield Defogger (if equipped)
- ☐ Navigation System (if equipped)
- ☐ Rear Sunshade (if equipped)
- ☐ Cruise Control Light (if equipped)
- ☐ Steering Wheel Audio Control (if equipped)
- ☐ HVAC
- ☐ Power Locks (if equipped)
- ☐ Power Windows (if equipped)
- ☐ Gauges
- ☐ Front Wiper/Washer
- ☐ Hood Latch Release
- ☐ Passenger Air Bag Switch (if equipped)
- ☐ Rollover Side Curtain Air Bag Switch (RSCA)
- ☐ Horn
- ☐ Seat Belt Warning Light
  If the warning light remains on, it may indicate a system malfunction.
- ☐ Air Bag Warning Light
  If the warning light remains on, it may indicate a system malfunction.
- ☐ Lamp Failure Sensor
  If the warning light remains on, it may indicate a system malfunction.
- ☐ Track/Skid Control Light (if equipped)
  If the warning light remains on, it may indicate a system malfunction.
- ☐ Tire Pressure Monitoring System (TPMS)
  Prior to TPMS activation and Pre-Delivery Service (PDS) of the vehicle the TPMS light will blink when IG is turned on. After TPMS activation and PDS of the vehicle the TPMS light will illuminate for a few seconds and go off when IG is turned on.