

Part Number: 00016-47026**Accessory Code: QG1****Conflicts****TMS Factory GBS****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	1	24" Cable Tie

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	4	Black T-Tap Terminal
2	4	Red T-Tap Terminal
3	1	Blue T-Tap Terminal
4	15	8" Cable Ties
5	1	Foam Mounting Pad
6	1	10 mm M6 Nut
7	1	M6 Bolt (Not Required)
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 48in-lb	Wire Crimper
Special Chemicals	

Vehicle Service Parts (may be required for reassembly)

P/N	Qty.	Description
00016-47026-01	1	Interface Control Module
00016-47026-02	1	Shock Sensor Module
00016-47026-04	1	Miscellaneous Hardware Kit
00016-47026-05	2	Window Warning Decal
00016-47026-03	1	Wire Harness

General Applicability

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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.
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation.
	TOOLS AND 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 a previous issue.
	SAFETY TORQUE: This mark indicates that torque is related to safety.

SPECIAL NOTE:

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.

PREPARING FOR INSTALLATION

INSTALLATION PREPARATION

Before starting installation

1. Familiarize yourself with the installation instructions.
2. Inspect kit components (Refer to kit contents and hardware bag contents).

VEHICLE PREPARATION

1. Place protective coverings on vehicle.
2. **"IMPORTANT.....IMPORTANT"**

Disconnect Negative Battery Cable

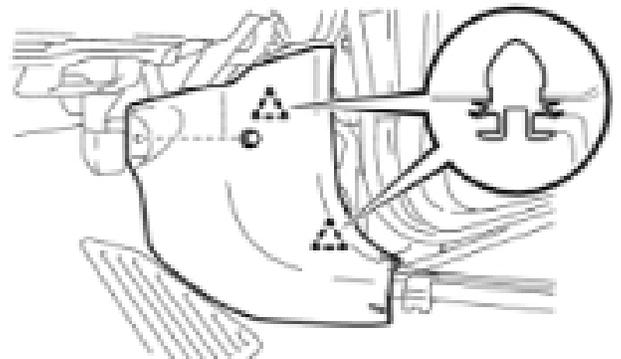
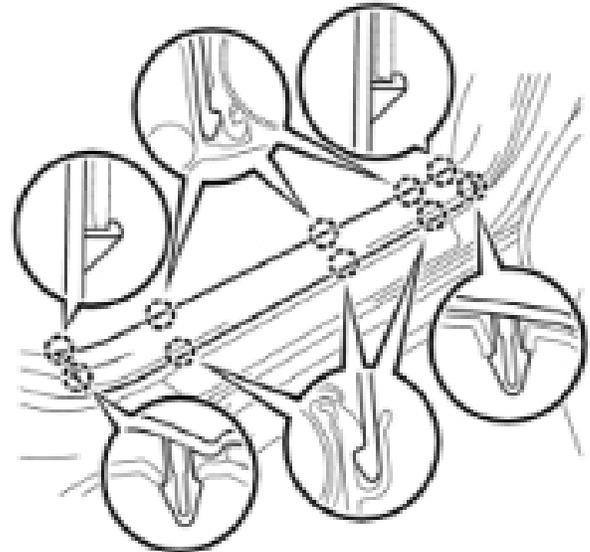
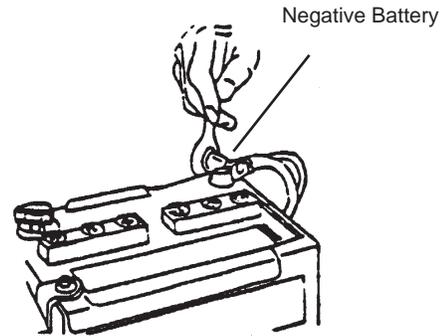
Note: Refer to the repair manual for details and procedures to access and disconnect the negative battery terminal. Wait 90 seconds before disconnecting any electrical connectors.

REMOVE THE PASSENGER'S SIDE SCUFF PLATE:

1. Remove the passenger's side front door step sill by disengaging the (10) claws.

REMOVE THE PASSENGER'S SIDE KICK PANEL:

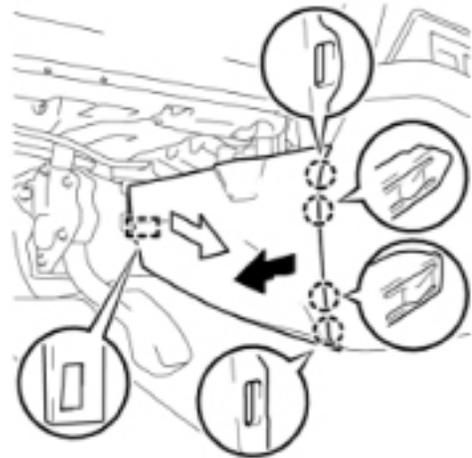
1. Remove the passenger's side kick panel by removing the (1) plastic retainer and disengaging the (2) clips.



PREPARING FOR INSTALLATION

REMOVE THE CENTER FLOOR CARPET COVER (LH & RH):

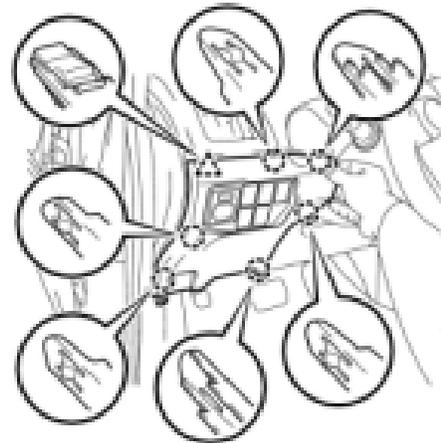
1. Pull the passenger's front center floor carpet cover in the direction indicated by the arrow to disengage the (4) claws and guide, and remove the center floor carpet cover.
2. Repeat for the driver's side.



Driver's Side Shown

REMOVE THE LOWER FINISH PANEL:

1. Disengage the hood release cable from the hood release latch handle.
2. Carefully pull the lower finish panel outward from the vehicle dash to disengage the snap clips holding it place. Disengage any electrical connectors, then set the panel aside where it will not be damaged.



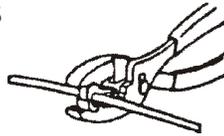
T-TAP INSTALLATION

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. When possible, install T-Taps at least 1" from connector.

Step A



Step B



Step C



Wire from main keyless harness



IMPORTANT! After installation, inspect and ensure that Security System Harnesses are clear of all **HOT, SHARP** or **MOVING** objects.

IMPORTANT! Care **MUST** be exercised when using the **BLACK T-Taps**. To avoid damage and broken wires, please note:

- Ensure there is **NO** tension on the T-Tap connection when securing the harness. The wire should be slack.
- **Excessive manipulation and/or stress** on the wire connection could lead to wire breakage.
- **Center the wire in the metal insert, NOT the plastic side of the T-Tap.** Misalignment of the wire against the metal insert could lead to cutting the wire.
- It is recommended to close the T-Tap with your fingers (Step A above). After the T-Tap has been closed with your fingers, applying light pressure with a set of pliers will complete the connection.

MOUNTING THE INTERFACE RELAY MODULE:

1. Attach the supplied foam pad to the back side of the interface relay module.
2. Plug in the 10 cavity connector from the main harness into the interface relay module.
3. Secure the interface relay module with (1) wire tie to the factory harness located to the left of the driver's JB.

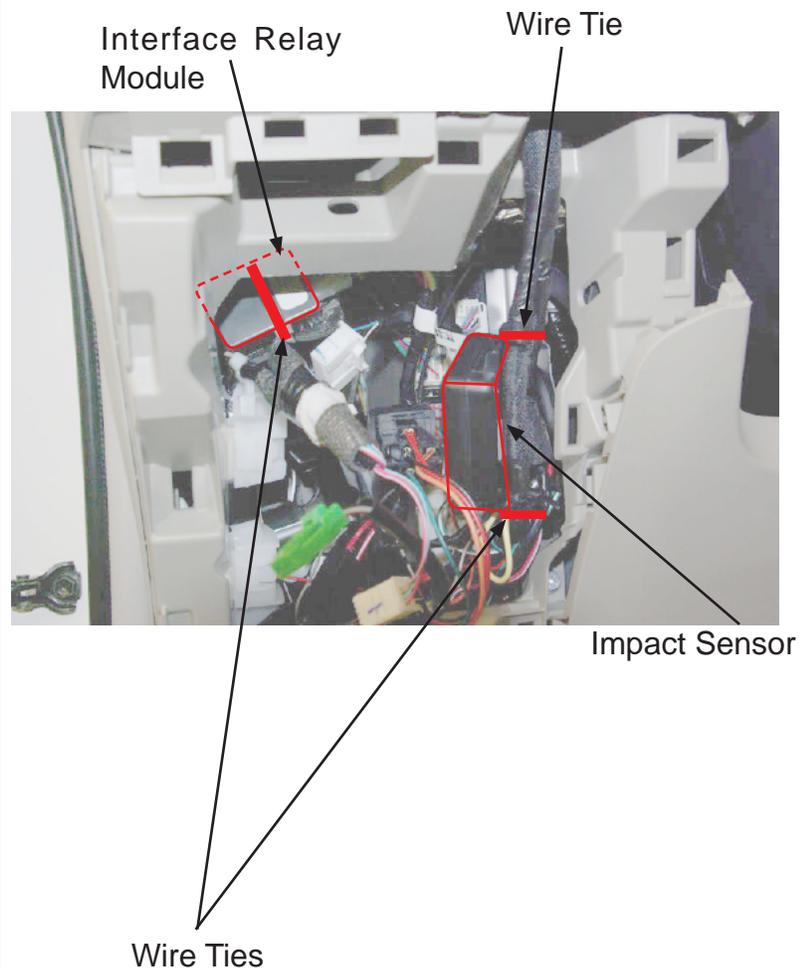
INSTALLING THE IMPACT SENSOR:

1. Adjust the Impact Sensor sensitivity to "2".
2. Secure the impact sensor to the factory harness located to the left of the driver's JB, with (2) wire ties.



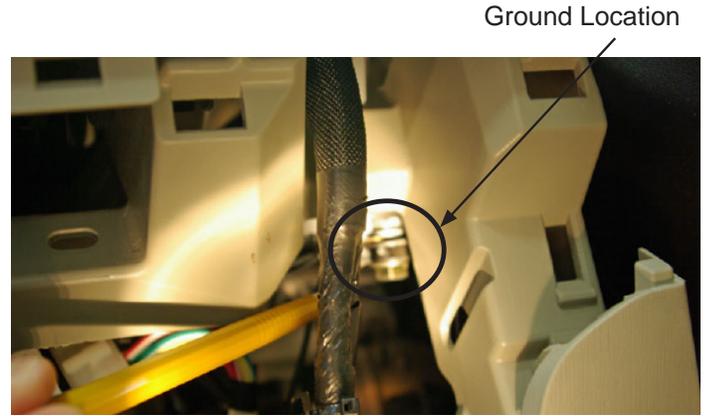
Guide wire ties through the Impact Sensor's mounting eyelets.

3. Plug in the 4 cavity connector from the main harness into the rear of the Impact Sensor.
4. Secure any excess wire harness with wire ties, as needed.



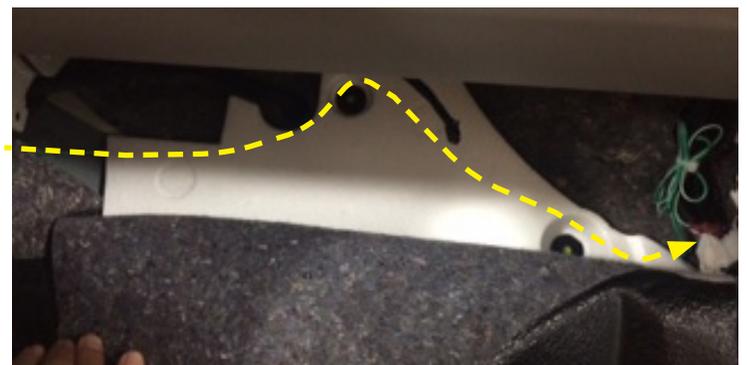
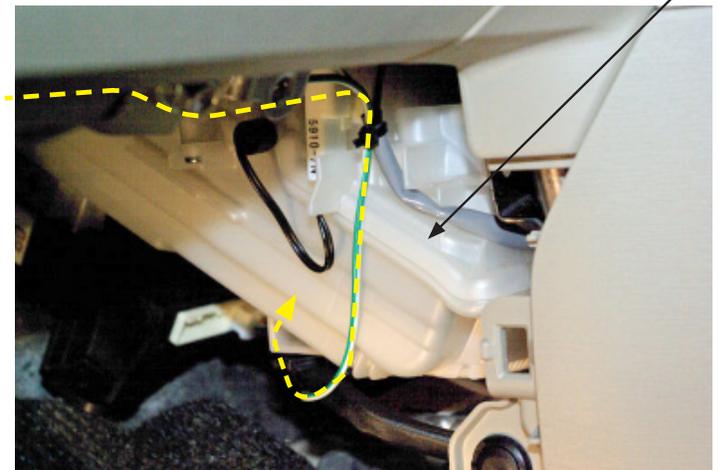
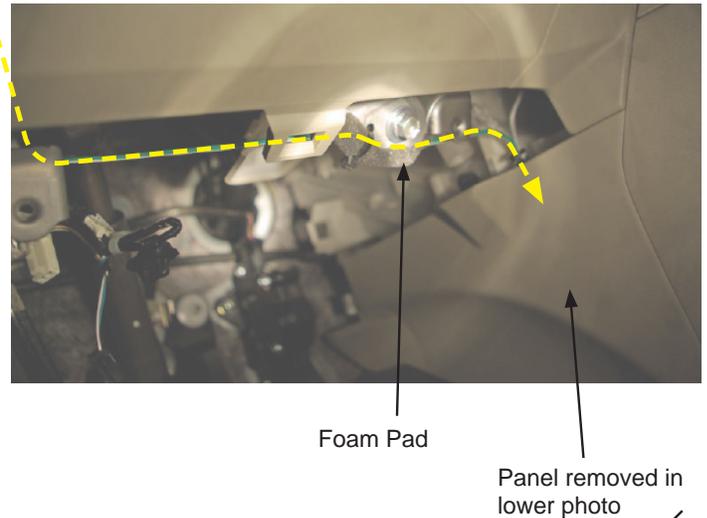
CONNECTING THE IMPACT SENSOR HARNESS GROUND WIRE:

1. Using the supplied 10 mm nut, secure the Factory Alarm Interface harness black ground wire to double-nut the 10mm M6 bolt located to the right of the driver's JB.



CONNECTING THE IMPACT SENSOR HARNESS:

1. Route the Green/White interface harness wire to the passenger's kick panel area.
2. Wrap foam pad around factory bracket, located the center console area.
3. Secure the Green/White interface harness wire along the routing path with cable ties, as necessary.
4. Using the diagrams on the following two pages, connect the impact sensor harness to the vehicle.



WIRING DIAGRAM

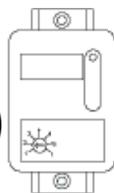
THE RECOMMENDED SENSITIVITY SETTING FOR THE IMPACT SENSOR IS "2"

****Not needed for vehicle's with a factory installed hood pin switch. See "Detail A"**

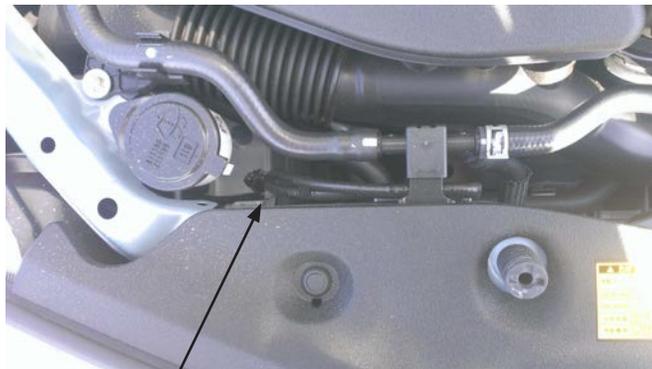
RED/WHITE WIRE - (20GA) Shock Sensor Trigger:
Use red T-Tap and connect to the Red wire (Pin 38) in the "2C" connector.

GREEN/WHITE WIRE - (20GA) Shock Sensor Trigger:
Use red T-Tap and connect to the Blue wire (Pin 3) in the "L79" connector, located in the passenger's kick panel area.

BLACK Wire- (18 GA.) GROUND:
Using supplied 10 mm nut, connect to the 10 mm M6 bolt, located to the right of the driver's JB.



Detail "A"
Vehicles NOT equipped with a factory hood switch will have the connector taped to the factory harness, as shown.



Factory Hood Switch Connector

RED WIRE - (18 GA.) +12 VDC BATT:
Use red T-Tap and connect to the Red wire (Pin 40) in the "2C" connector.

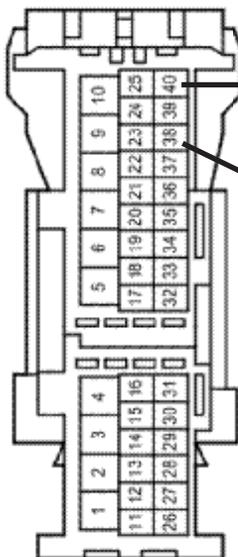
YELLOW WIRE - (18 GA) + 12 VDC IGN:
Use red T-Tap and connect to the Lt. Blue wire (Pin 16) in the "2D" connector.



CONNECTOR DETAILS: 2015 Prius V

1. CONNECTOR 2C : 12v DC / Hood Trigger

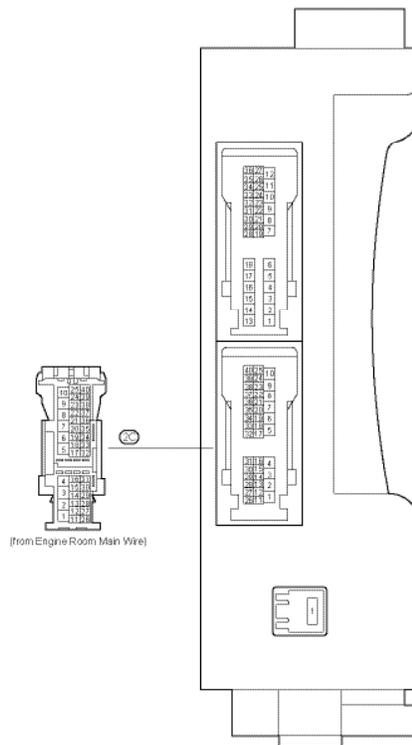
Location : Driver's JB



12v VDC Battery
Red Wire
Location 40

Hood Trigger
Red Wire
Location 38

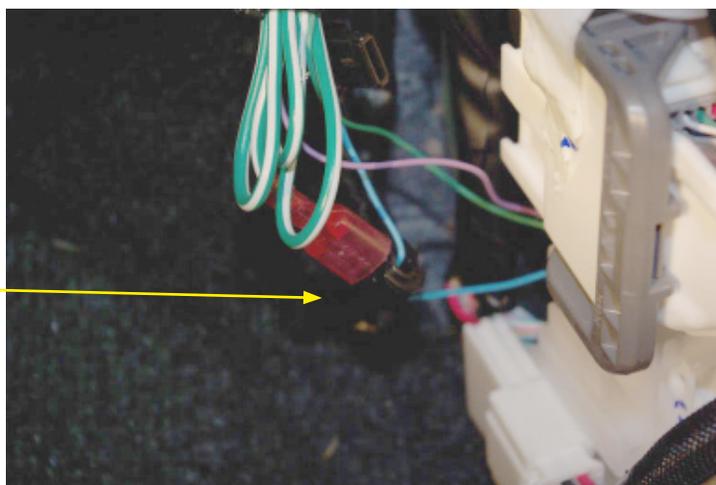
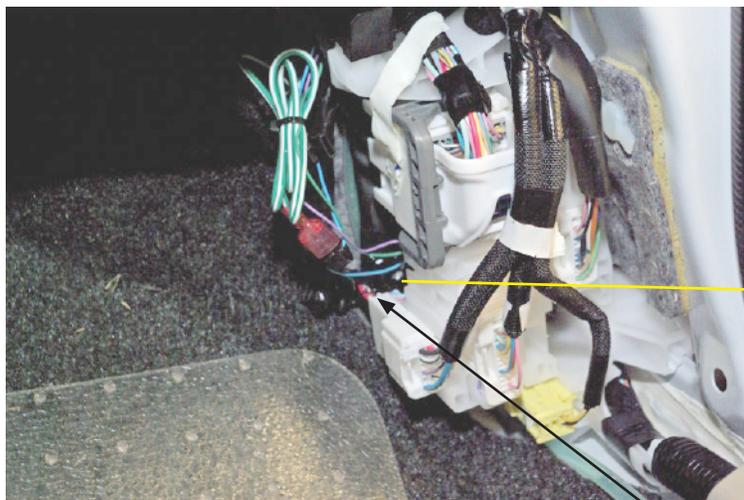
Note: Not needed for vehicle's with a factory installed hood pin switch.



IMPACT SENSOR	VEHICLE	T-TAP COLOR
Red	(Pin 40)	Red
Red/White	(Pin 38)	Red

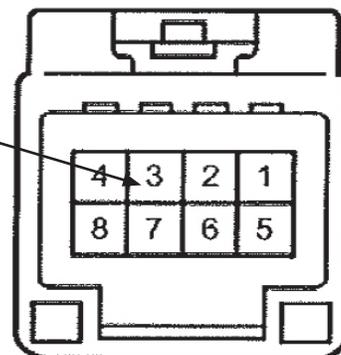
2. CONNECTOR L79: Trigger Connection

Location : Passenger's Kick Panel Area



Trigger
Blue Wire
Location 3

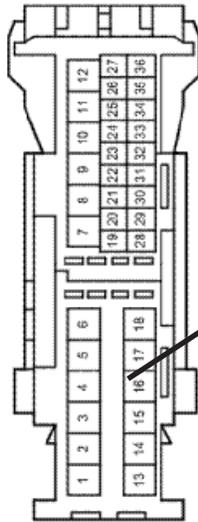
IMPACT SENSOR	VEHICLE	T-TAP COLOR
Green/White	Blue	Red



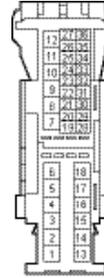
CONNECTOR DETAILS: 2015 Prius V

3. CONNECTOR 2D : Ignition

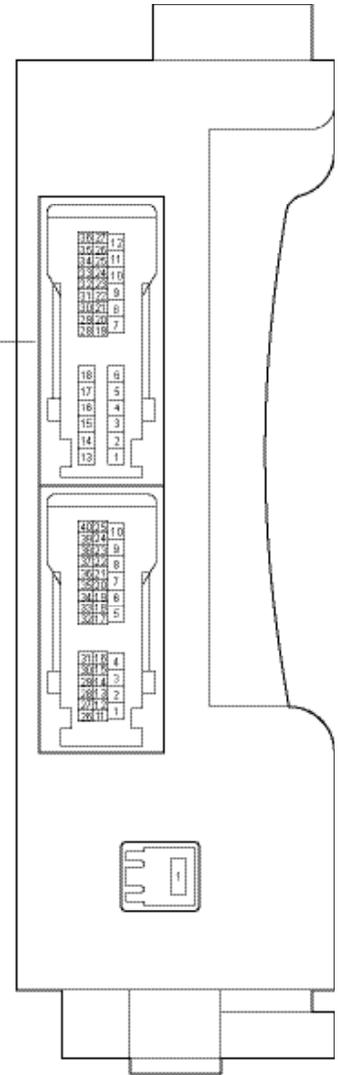
Location : Driver's JB



Ignition
Lt. Blue Wire
Location 16



2D



IMPACT SENSOR

Yellow

VEHICLE

Lt. Blue

T-TAP COLOR

Red

ACTIVATING THE SYSTEM

 1. Reconnect the negative battery cable. Torque to 48 in. lbs.

2. Use the Toyota Scan Tool to activate the security option.

Note: Only needed for vehicle's that **DO NOT** have factory security already turned **ON**.

A. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.

B. Turn the ignition switch to the "ON" position.

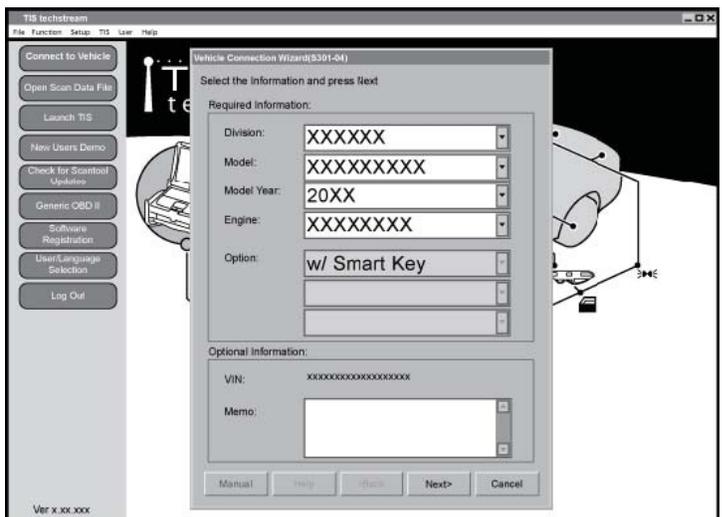
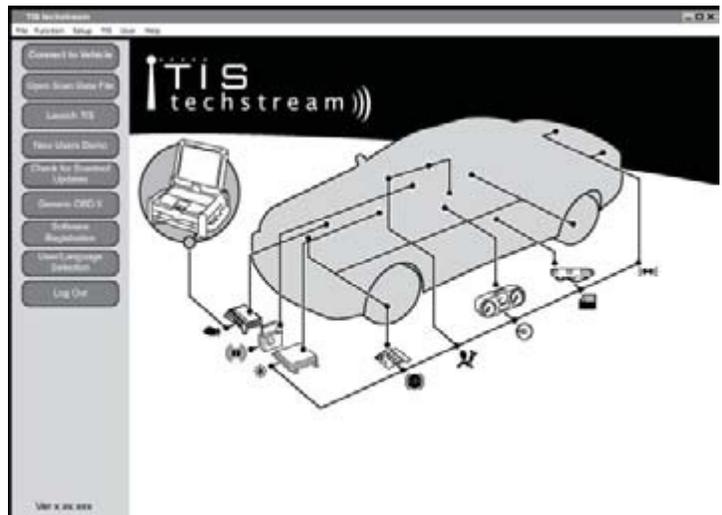
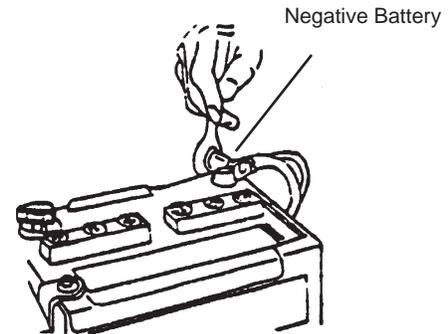
C. Start the TIS Techstream Application by clicking on the shortcut located on the desktop.

D. Click "Connect to Vehicle".

E. Confirm that the information displayed on the Vehicle Connection Wizard is correct for the vehicle. If not, verify that the Techstream is properly connected.

F. Select any additional "Option" items that are applicable to the vehicle.

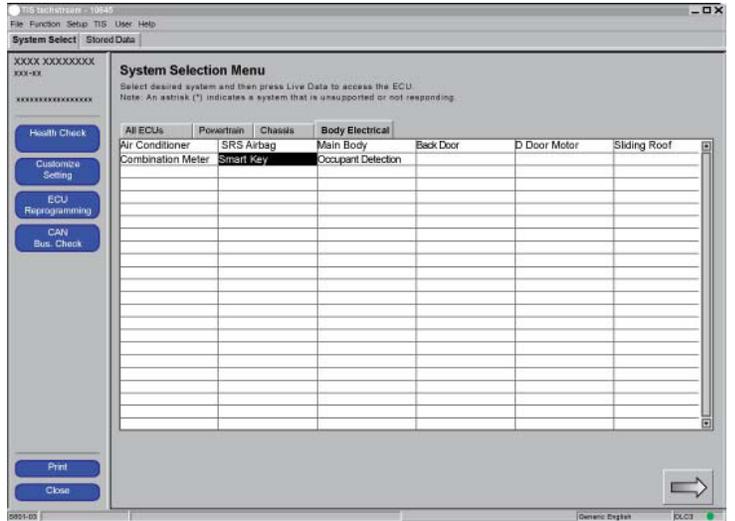
G. Click "Next>".



ACTIVATING THE SYSTEM

H. Click "Customize Setting".

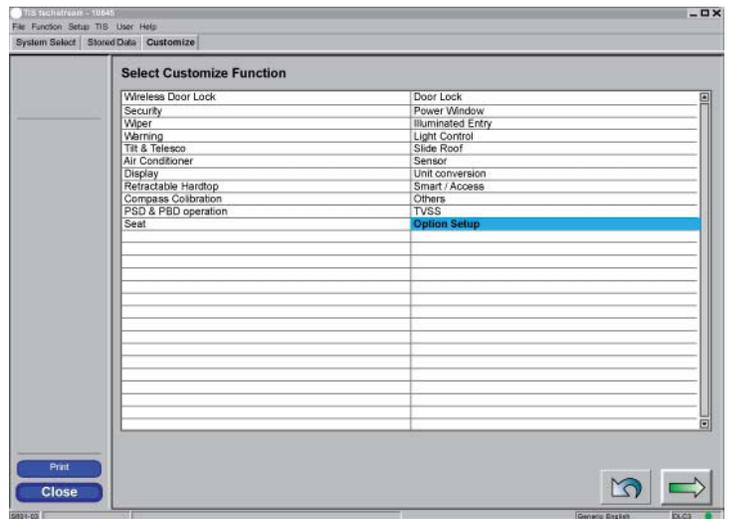
I. Click 



J. Make sure that the "Customize" tab is selected.

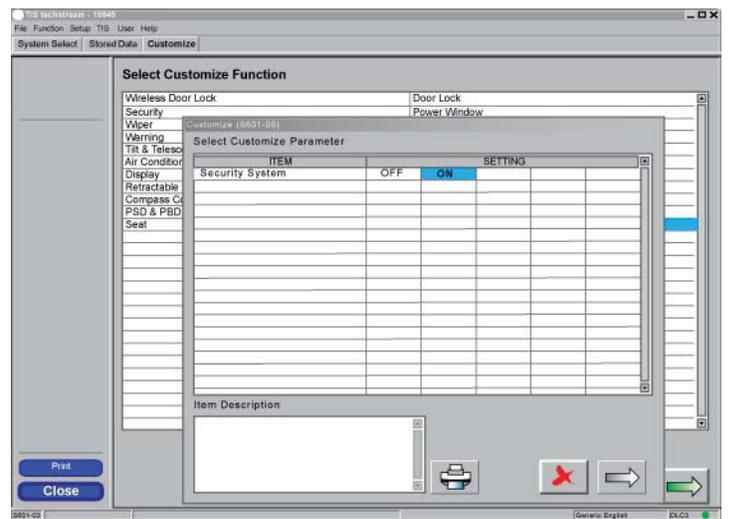
K. Select "Option Setup".

L. Click 



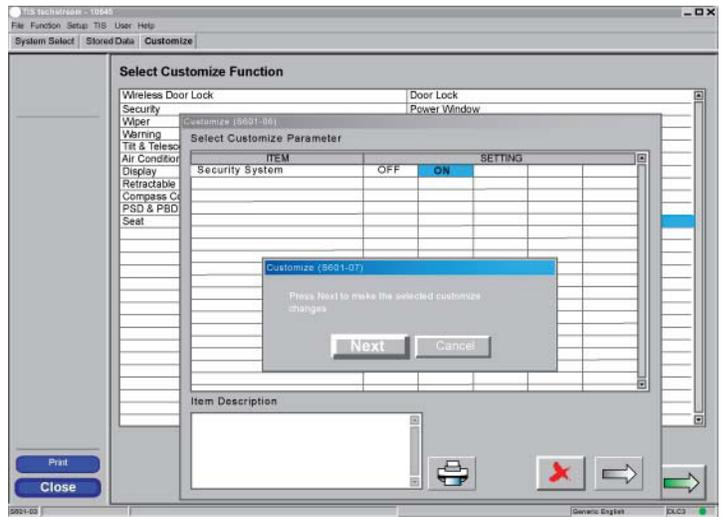
M. Select "ON".

N. Click 

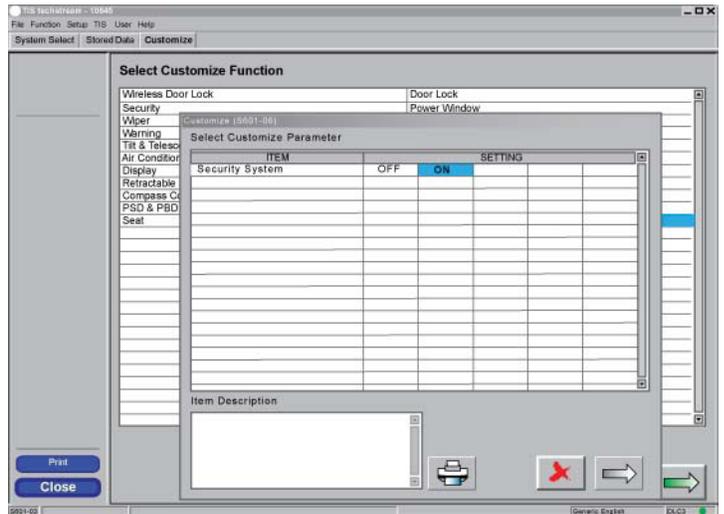


ACTIVATING THE SYSTEM

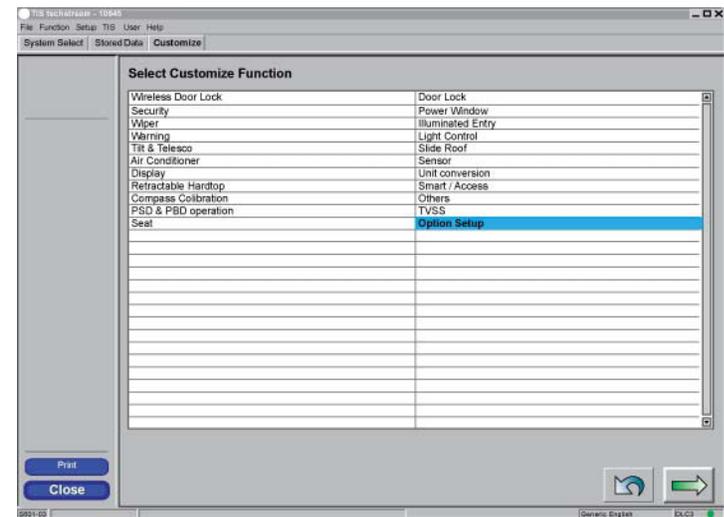
O. Click "Next" to accept the changes to the vehicle.



P. Click



Q. Click "Close".



COMPLETING THE INSTALLATION

ASSEMBLE ALL REMOVED PANELS TO THE VEHICLE :

1. Disconnect negative battery terminal.
2. Refer again to the vehicle repair manual and re assemble all panels that were removed for installation back onto the vehicle.
3. Using a VDC approved cleaner, clean the inside surface of the window where the warning decal will be located.
4. 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.

WINDOW



Note: Only applies to vehicle's with out factory alarm stickers.

-  5. Reconnect negative battery terminal. Torque to 48 in. lbf.

TESTING THE SYSTEM:

NOTE: IT MAY BE NECESSARY TO MOVE SMART KEYS 8-10 FEET AWAY FROM THE VEHICLE WHEN TESTING.

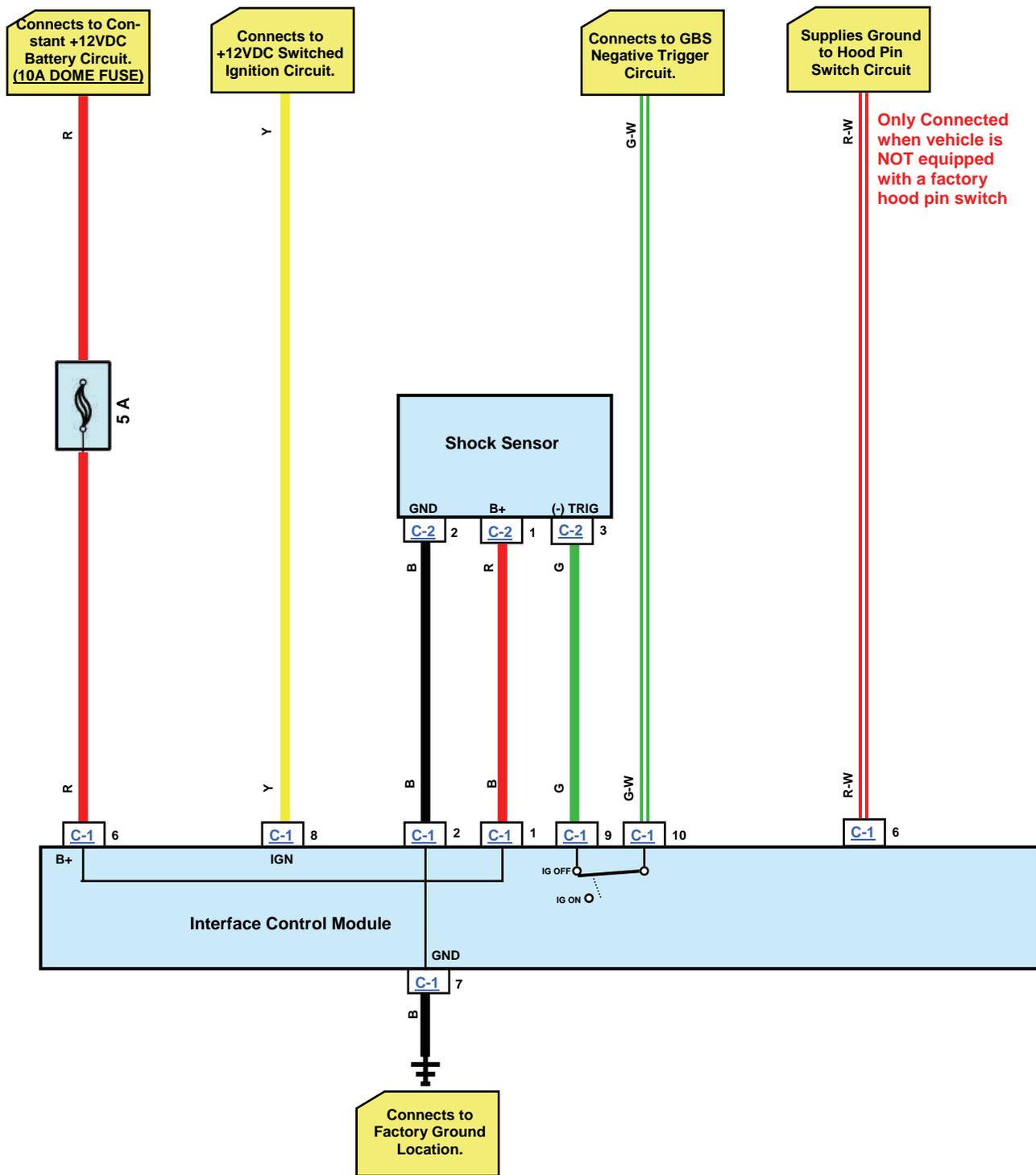
1. Prior to delivering the vehicle, test all features of the factory system according to the vehicle's owner's manual.
2. Be sure to arm the system by pressing the LOCK button on the keyless entry transmitter. The factory security light will turn on solid for approximately 30 seconds, then begin to flash indicating the system is armed**. At this time, deliver a firm strike to the steering wheel. The alarm should trigger as a result of the shock sensor. Adjustment of the shock sensor may be necessary on some vehicle's.

** On some vehicles, the Red security indicator will start flashing as soon as you arm the system. On these vehicles, wait 30 seconds before testing.

CHECKED POINTS MUST BE VALIDATED TO ENSURE A QUALITY INSTALLATION

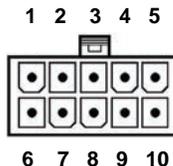
- | | |
|--|--|
| <input type="checkbox"/> Head Light
<i>If the warning lights remains on, it may indicate a system malfunction.</i> | <input type="checkbox"/> Massage Seats (if equipped) |
| <input type="checkbox"/> High Beams | <input type="checkbox"/> Power Side Mirrors (if equipped) |
| <input type="checkbox"/> Turn Signal Lights | <input type="checkbox"/> Side Mirror Defogger (if equipped) |
| <input type="checkbox"/> Tail Lights | <input type="checkbox"/> Front Windshield Defogger (if equipped) |
| <input type="checkbox"/> Stop Lights | <input type="checkbox"/> Navigation System (if equipped) |
| <input type="checkbox"/> Backup Lights | <input type="checkbox"/> Rear Sunshade (if equipped) |
| <input type="checkbox"/> Hazard Lights | <input type="checkbox"/> Cruise Control Light (if equipped) |
| <input type="checkbox"/> Marker Lights | <input type="checkbox"/> Steering Wheel Audio Control (if equipped) |
| <input type="checkbox"/> Dome/Courtesy Lights | <input type="checkbox"/> HVAC |
| <input type="checkbox"/> Panel/Switch Illumination | <input type="checkbox"/> Power Locks (if equipped) |
| <input type="checkbox"/> Accessory Controls/Illumination (if equipped) | <input type="checkbox"/> Power Windows (if equipped) |
| <input type="checkbox"/> Rear Window Defogger (if equipped) | <input type="checkbox"/> Gauges |
| <input type="checkbox"/> Key Sensor Buzzer | <input type="checkbox"/> Front Wiper/Washer |
| <input type="checkbox"/> Fog Lights (if equipped) | <input type="checkbox"/> Hood Latch Release |
| <input type="checkbox"/> Day Time Running Lights (if equipped) | <input type="checkbox"/> Passenger Air Bag Switch (if equipped) |
| <input type="checkbox"/> Trunk/Tailgate/Bed Lights (if equipped) | <input type="checkbox"/> Rollover Side Curtain Air Bag Switch (RSCA) |
| <input type="checkbox"/> Glove Box Light (if equipped) | <input type="checkbox"/> Horn |
| <input type="checkbox"/> ABS Light (if equipped) | <input type="checkbox"/> Seat Belt Warning Light
<i>If the warning lights remains on, it may indicate a system malfunction.</i> |
| <input type="checkbox"/> Rear Wiper/Washer (if equipped) | <input type="checkbox"/> Air Bag Warning Light
<i>If the warning lights remains on, it may indicate a system malfunction.</i> |
| <input type="checkbox"/> Clock (if equipped) | <input type="checkbox"/> Lamp Failure Sensor
<i>If the warning lights remains on, it may indicate a system malfunction.</i> |
| <input type="checkbox"/> Accessory Power Socket (if equipped) | <input type="checkbox"/> Trac/Skid Control Light (if equipped)
<i>If the warning lights remains on, it may indicate a system malfunction.</i> |
| <input type="checkbox"/> Starter | <input type="checkbox"/> Tire Pressure Monitoring System (TPMS)
<i>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.</i> |
| <input type="checkbox"/> Audio/Video (if equipped) | |
| <input type="checkbox"/> Power Sliding Door (if equipped) | |
| <input type="checkbox"/> Convenience Memory Settings (if equipped) | |
| <input type="checkbox"/> Heated Seats (if equipped) | |

Block Diagram



Checking the Harness Pinouts:

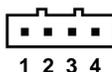
Connector C-1: Main Harness Connector Terminal View



Unplug the 10 pin connector from the module, and perform all tests at the terminal side of the connector. If feedback from the vehicle on any of the Pins does not match the results shown in the Proper Operation field, then the module is not receiving the correct signals from the vehicle. Check the connection to the vehicle wiring then re-test.

Pin	Wire Color	Test Reference	Proper Operation
1	Red	Pin 1 to C-2 Pin 1	• Always Continuity.
2	Black	Pin 2 to C-2 Pin 2.	• Always Continuity.
3	No Connection		
4	No Connection		
5	Red w/ White	Pin 5 to Ground	• Always 10k Ohm or higher.
6	Red	Pin 6 to Ground.	• Always +12 VDC.
7	Black	Pin 7 to Ground.	• Always Continuity.
8	Yellow	Pin 8 to Ground.	• + 12 VDC Key in RUN Position. • 0 VDC Key in OFF & LOCK Positions.
9	Green	Pin 9 to C-2 Pin 3.	• Always Continuity.
10	Green w/ White	Pin10 to Ground	• Always Continuity.

Connector C-2: Shock Sensor Connector Terminal View



Unplug the 4 pin connector from the module, and perform all tests at the terminal side of the connector. If feedback from the vehicle on any of the Pins does not match the results shown in the Proper Operation field, then the shock sensor is not receiving the correct signals from the vehicle. Check the connection to the vehicle wiring then re-test.

Pin	Wire Color	Test Reference	Proper Operation
1	Red	Pin 1 to Ground.	• Always +12 VDC.
2	Black	Pin 2 to Ground.	• Always Continuity.
3	Green	Pin 3 to C-1 Pin 9.	• Always Continuity.
4	No Connection		