

Toyota

Highlander

2010 -

Impact Sensor w/ Factory Security

Part Number: 00016-47031

Code: QG2



Conflicts

Note: **NOT FOR INSTALLATION ON VEHICLES WITHOUT FACTORY THEFT DETERRENT SYSTEMS.**

Kit Contents

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

Hardware Bag Contents

Item #	Qty	Description
1	3	Red T-Tap Terminal
2	12	8" Black Cable Ties
3	1	Red Scotch Lok Connector
4	1	Foam Mounting Pad

Recommended Tools

Safety Tools	
Special Tools	
INSTALLATION TOOLS	
Phillip screwdriver	Straight-Slot screwdriver
Ratchet w/extension	10 mm socket
Diagonal wire cutters	Common pliers
Flashlight	Nylon trim tool
10mm socket	
Torque wrench (36 inlbs)	
Special Chemicals	

Vehicle Service Parts

P/N	Qty	Description
00016-47031-03	1	Interface Control Module
00016-30960-02	1	Shock Sensor Module
00016-47031-02	1	Hardware Bag
00016-47031-01	1	Main Harness
00016-30960-03	2	Anti-Theft Window Decals

General Applicability

VEHICLES WITH FACTORY THEFT DETERRENT SYSTEMS.

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.

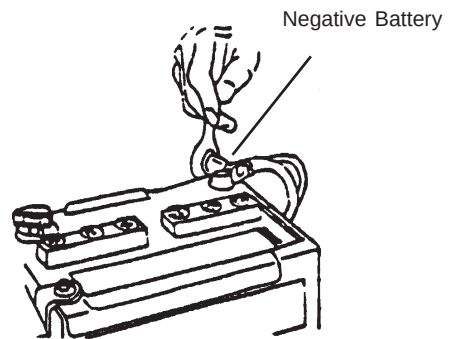
INSTALLATION PREPARATION

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
3. Refer to the vehicle repair manual, and carefully remove the passenger side front door step sill.
4. Refer to the vehicle repair manual, and carefully remove the passenger side kick panel.



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5. Remove the 10mm bolt behind the passenger side kick panel.

6. Remove the 10mm bolt located below the glove box assembly, near the center console area.

7. Remove the (3) phillip screws located inside the glove box assembly.

8. Remove any connectors or lights (if equipped) attached to the glove box assembly and remove from the vehicle.

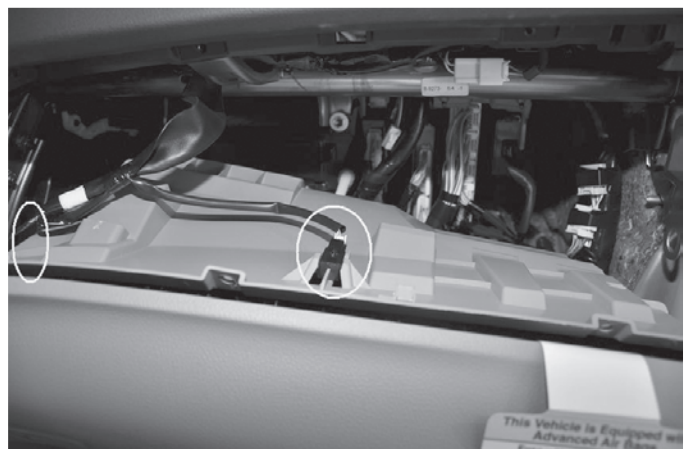
Impact Sensor



10mm Bolts



Phillip Screws



INSTALLING THE ALARM INTERFACE

INSTALLING MAIN HARNESS:

1. Locate the "A" connector behind the glove box to the right.



2. Install (1) Red T-Tap on the Red (Pin 2) wire.
3. Install (1) Red T-Tap on the Black (Pin 3) wire.
4. Identify the Green (Pin 1) wire, this wire will be connected to using a Scotch-Lok in step 8.



INSTALLING THE MAIN HARNESS:

5. Locate the factory ground location, to the right behind the glove box.
6. Remove the 10 mm nut, Install the shock sensor main harness ground onto the stud and reinstall the 10 mm nut.
7. Connect the male terminal ends of the shock sensor harness to the red T-Taps installed in steps 2 and 3.
 - A. Red/White harness wire to the Red (Pin 1) wire from "A" connector.
 - B. Yellow harness wire to the Black (Pin 3) wire from "A" connector.
8. Using a Scotch-Lok connector, connect the Green/White harness wire to the Green (Pin 2) wire from "A" connector.



Ground Location

Alarm Interface Module

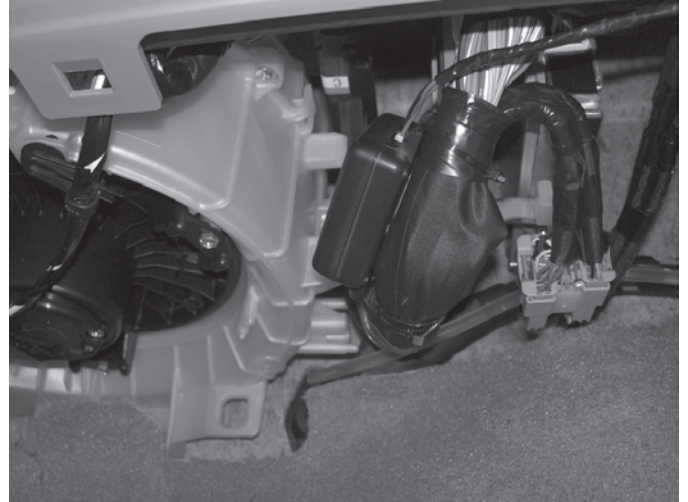
INSTALLING THE ALARM INTERFACE

MOUNTING THE ALARM INTERFACE MODULE:

1. Attach the supplied foam pad to the back side of the interface module.
2. Secure the interface module with (1) wire tie to the harness located behind the glove box to the right.

INSTALLING THE SHOCK SENSOR:

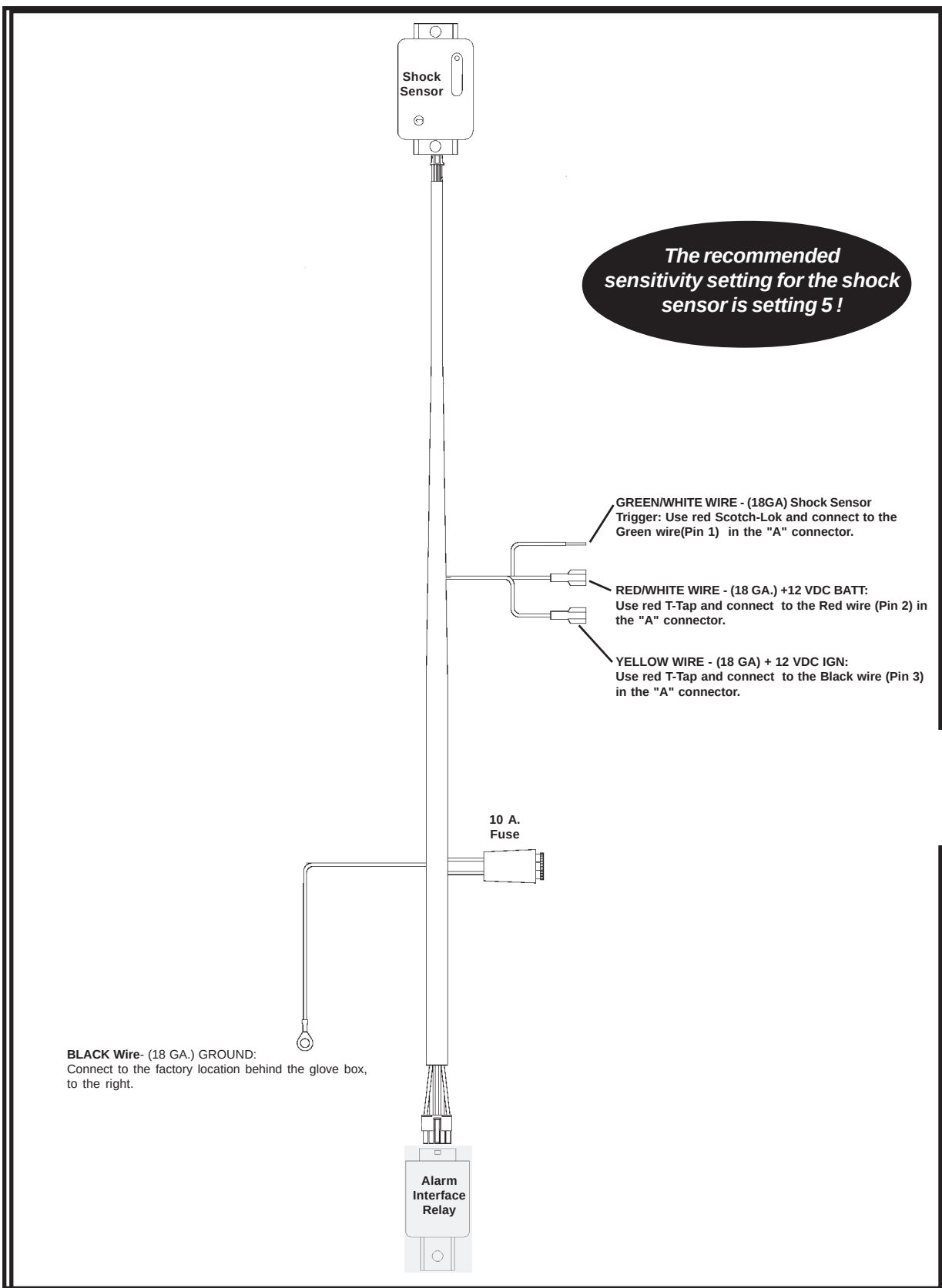
1. Secure shock sensor to wire loom running below the glove box area to the left with (2) wire ties.
2. Plug in 4 cavity Molex connector from the main harness into the rear of the shock sensor.



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.

WIRING DIAGRAM



COMPLETING THE INSTALLATION

ASSEMBLE ALL REMOVED PANELS TO THE VEHICLE :

1. Refer again to the vehicle repair manual and re assemble all panels that were removed for 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.

WINDOW



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 lower windshield area or front windows. The alarm should trigger as a result of the shock sensor. Adjustment of the shock sensor may be necessary on some vehicle's.

VEHICLE FUNCTION CHECKLIST

THESE POINTS MUST BE CHECKED TO ENSURE A QUALITY INSTALLATION

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