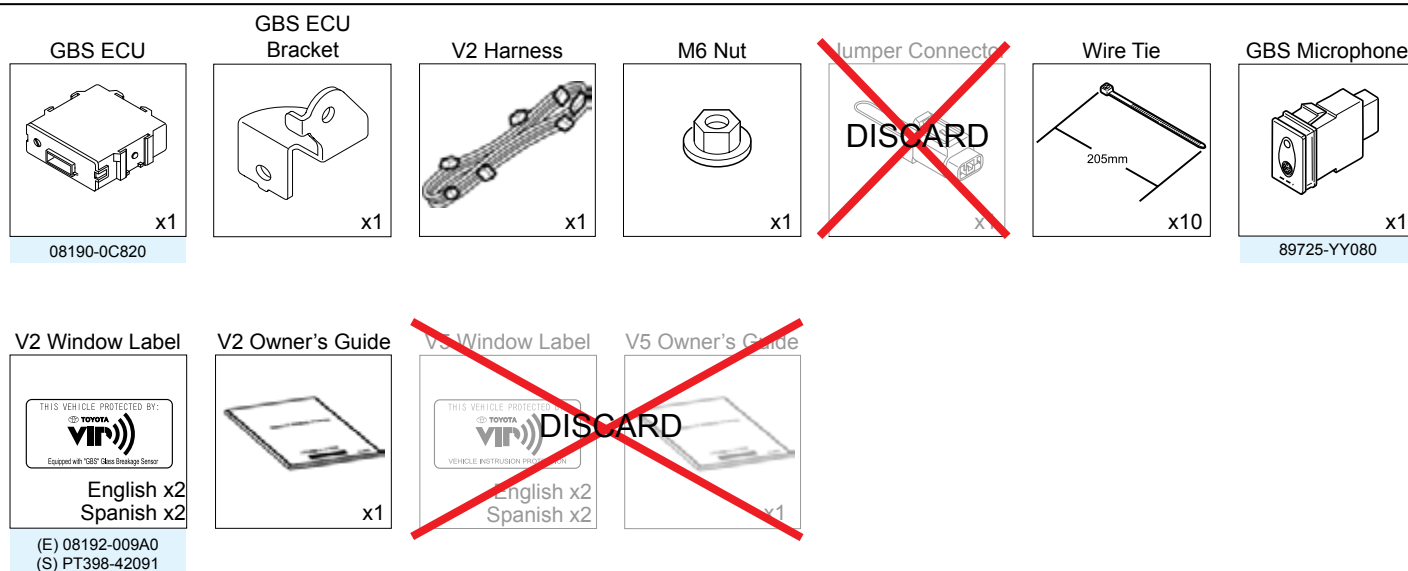


Part #: PT398-03122

Conflicts:

Do not install into Vehicles without Factory Alarm System.

Kit Contents



Service Part #'s

Additional Items

(may be required)

Item#	Description

Recommended Sequence of Application

Item#	Description

Recommended Tools

Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
Special Tools	
Striker Tool	CAD-E IADS P/N ALL 02-016-01
Installation Tools	
Screwdriver	#2 Phillips, Flat Blade Jeweler's
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Side Cutters	
Torque Wrench	Battery: 61 in•lbf (6.9 N•m), Passenger's Knee Airbag: 88.5 in•lbf (10 N•m)
Tape	Clear, Electrical
Socket	10mm, extension
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

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Legend



Do not proceed until process has been completed.



Follow steps carefully to avoid damaging the Vehicle or Accessory



Use caution to avoid injury.



Used in Figures to call attention to specific tools recommended for the process.



Highlights a change in installation with respect to previous issue.



Indicates that torque is related to safety.



Video available; click to play.



Wire Tie location and number.

Accessory Installation Practice (read before installation)

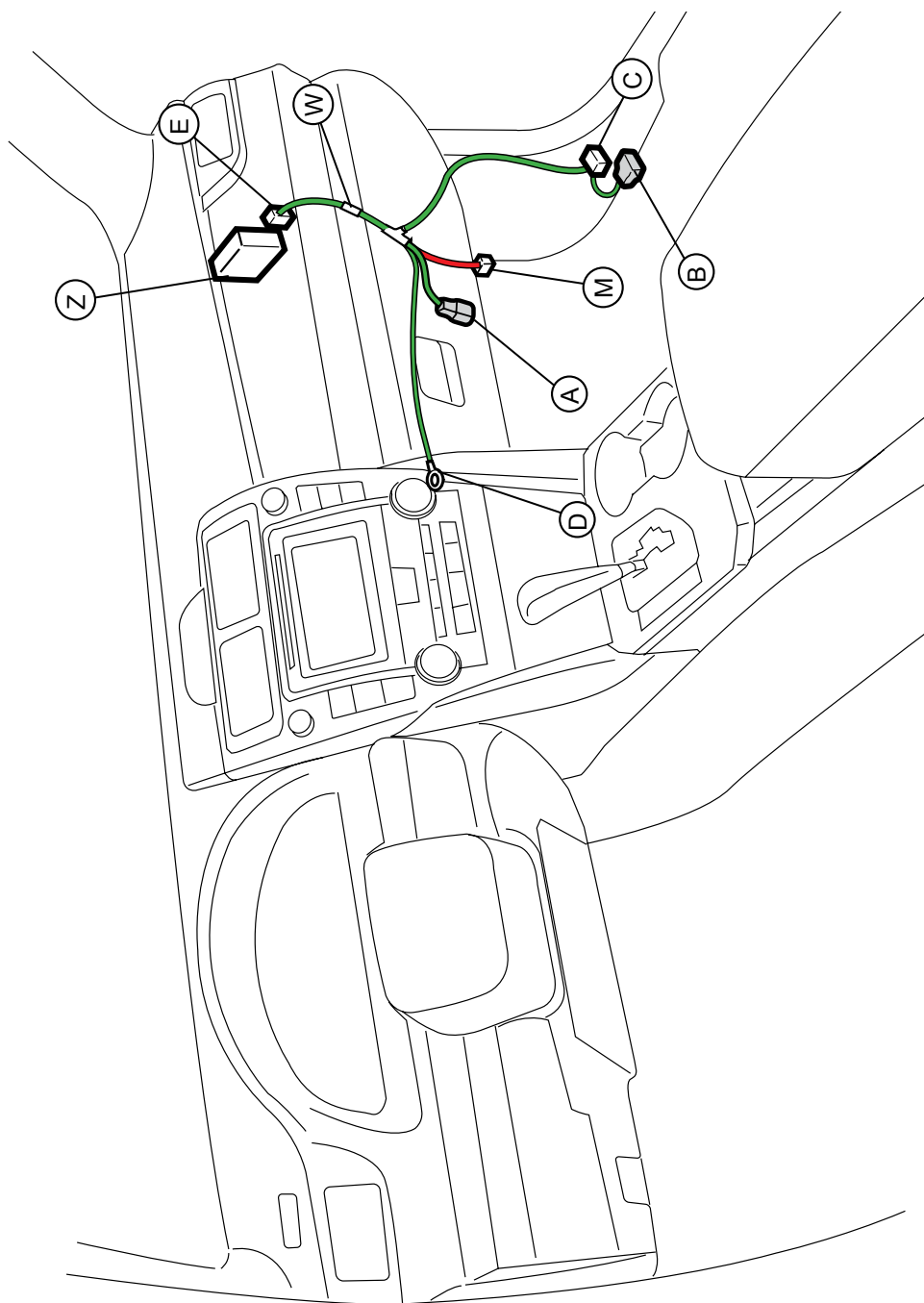
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the “Accessory Installation Practices” document.

This document covers such items as:

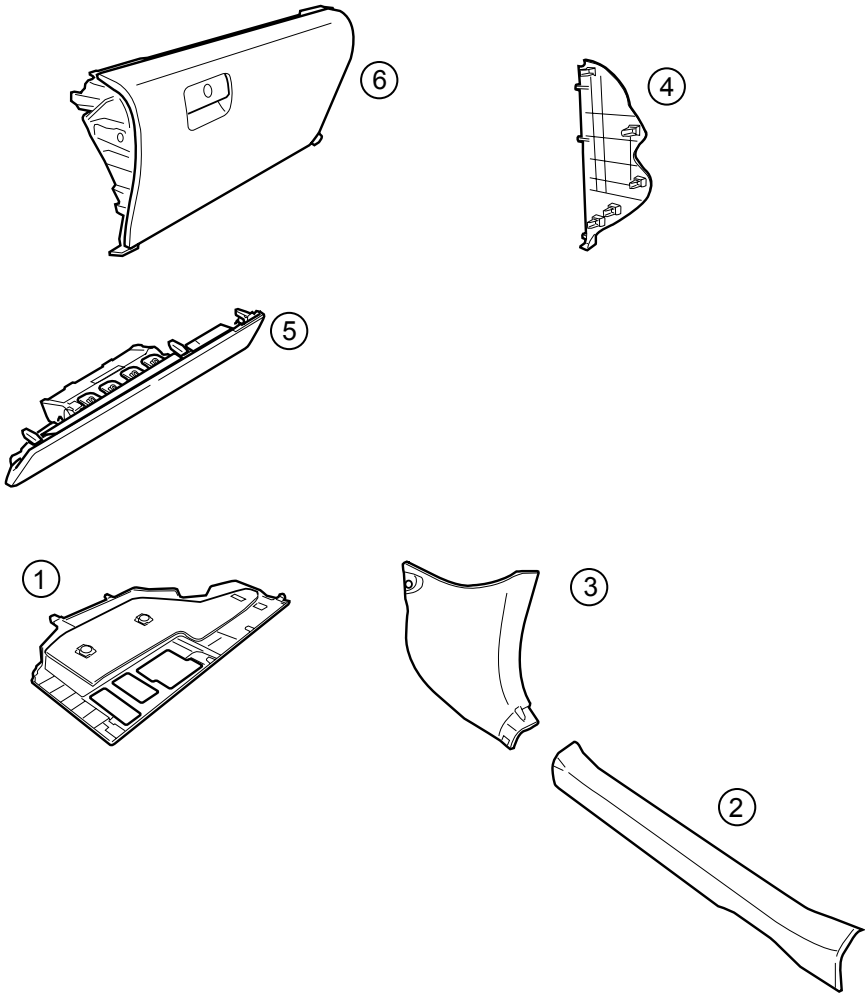
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.)
- Safety (eye protection, checking torque procedure, etc.)
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

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

[illegible]

***Color of Harness on Overview corresponds with Colored Tape near Connectors on Harness.**

Disassembly Overview



1	Glove Box Under Cover
2	PS Step Cover
3	PS Cowl Cover
4	PS Dash Side Cover
5	Knee Airbag (Do not disconnect connectors)
6	Glove Box



Disconnect all Corresponding
Connectors.

- 1. Vehicle Disassembly.**
- a. Place the Vehicle in Park with the Parking Brake set.
 - b. Disconnect the Negative Battery Terminal.
 - Note the Battery Cable Position as it will be re-installed in the same position.



CAUTION: Do not touch the Positive Terminal.

- c. Dislodge the Glove Box Under Cover.
- d. Disconnect the Vehicle's Connector from the Glove Box Under Cover.
- e. Remove the Passenger's Side Step Cover.

- f. Remove the Passenger's Side Cowl Cover.
- Remove 1 Nut.



NOTE: If the clips stays in the vehicle, make sure to remove and re-attach to the Cowl Cover.

- g. Remove the Passenger's Side Dash Cover.

- h. Dislodge the Passenger's Knee Airbag carefully.
- Remove 3 Bolts



CAUTION: Do not disconnect the Vehicle's Connector.

- i. Wrap the Airbag in a Blanket or the like as shown.
- j. Place the Airbag on top of the TVIP box.



CAUTION: Prevent stress on the Airbag Wire.

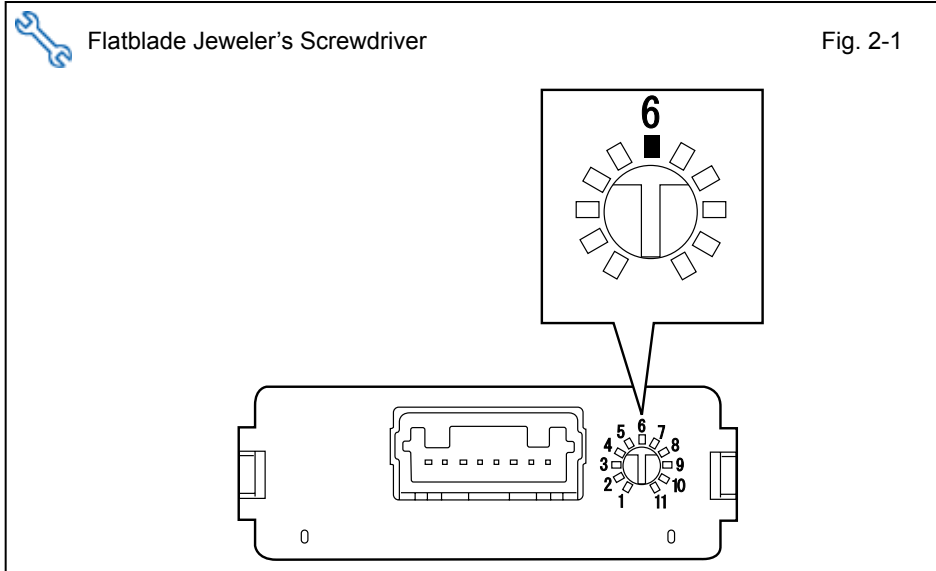
- k. Remove 2 Screws from the bottom of the Glove Box.

- l. Open the Glove Box.
- m. Dislodge the Glove Box.
 - Remove 3 Screws.

- n. Remove the Vehicle's clamp on the top left side of the Glove Box.
- o. Disconnect the Vehicle's Connector.
- p. Remove the Glove Box Light.

2. GBS ECU Preparation and Installation.

- a. Set the GBS Sensitivity Value to "6."



- b. Attach the GBS ECU Bracket to the GBS ECU.



- c. Install the GBS ECU using the supplied Nut.



NOTE: Make sure the Guide Pin is seated correctly and verify that the Nut is tightened securely.

3. V2 Harness Installation.

- a. Connect the V2 White 8P Connector to the GBS ECU.

- b. Use the V2 Harness Clip to secure it to the hole on the Vehicle's Reinforcement.

- c. Use the V2 Harness
Clamp to secure it to
the Vehicle Harness.



NOTE: Place the V2 Harness
parallel to the Vehicle Harness.



NOTE: Make sure to follow steps
above to avoid interference with
the Glove Box.

- d. Remove the Tape securing the
Vehicle's 8P Pre-connector.

- e. Connect the V2 White 8P
Connector to the Vehicle's
8P Pre-Connector.

- f. Use the V2 Harness Clamp to secure it to the Vehicle's Harness.



NOTE: Place the V2 Harness parallel to the Vehicle Harness.



NOTE: Make sure to follow steps above to avoid interference with the Glove Box.

- g. Route the V2 Ground Wire across the Glove Box area.

- h. Secure the V2 Ground Wire to the Vehicle Harness using 1 Wire Tie.
- i. Attach the V2 Ground Wire to the HVAC Wire Clamps along with the Vehicle Harness.

- j. Secure the V2 Ground Wire to the Vehicle Harness using 1 Wire Tie.

- k. Remove the Bolt from the Vehicle's Ground Terminal.



NOTE: Do not remove the Vehicle's Ground Terminal.

- l. Secure the V2 Ground Terminal to the Vehicle's Ground Terminal using the same Bolt.

Vehicles With Smart Key

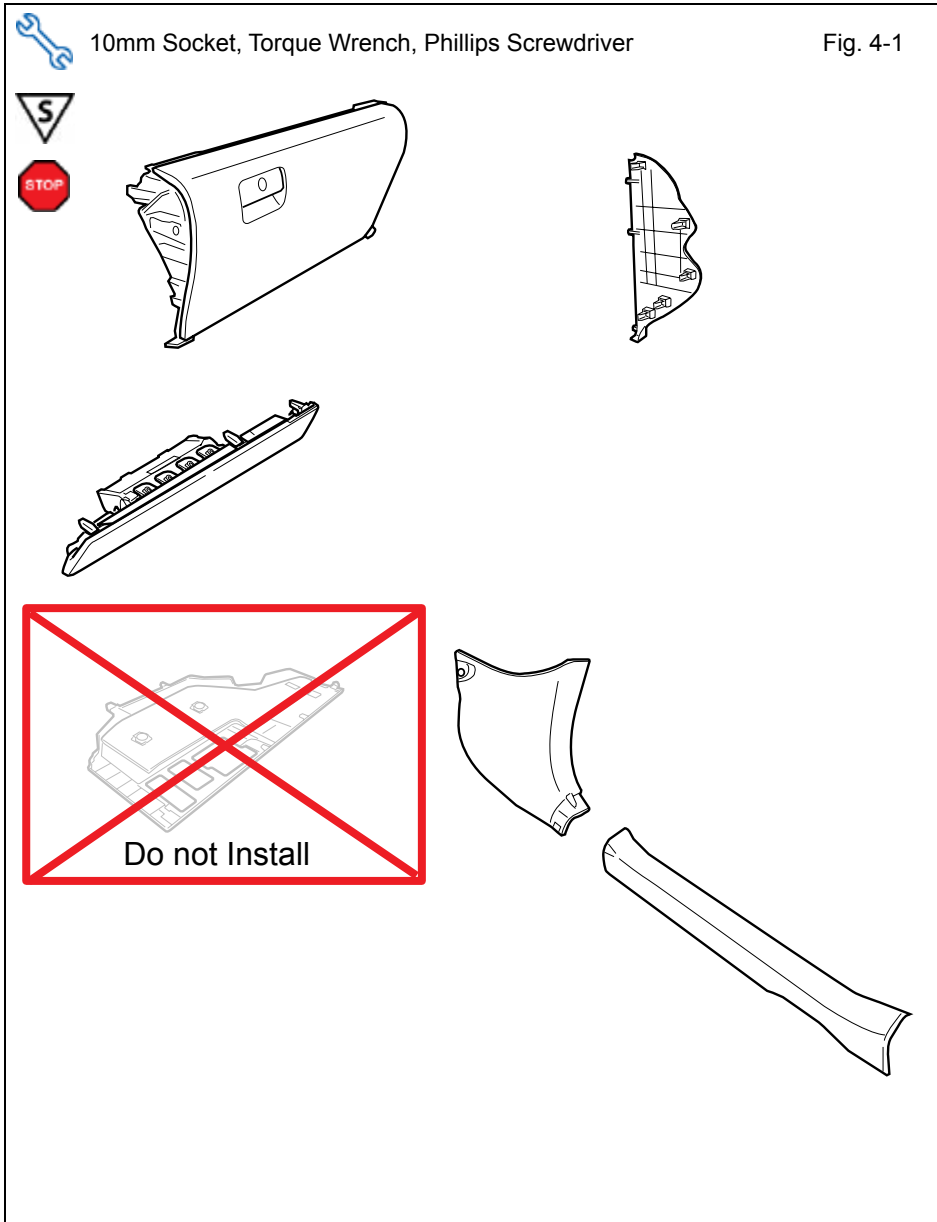
- m. Route the V2 Harness toward the Passenger's Side Cowl area.
- n. Secure the V2 Harness to the Vehicle Harness using 3 Wire Ties.

Vehicles Without Smart Key

- o. Route the V2 Harness toward the Passenger's Side Cowl area.
- p. Secure the V2 Harness to the Vehicle Harness using 2 Wire Ties.

- q. Disconnect the Vehicle's White 18P Connector from the Passenger's Side Cowl Connector Block.

- r. Connect the V2 White 18P Connector to the Vehicle's White 18P Connector.
- s. Plug in the V2 White 18P Connector to the Vehicle's Connector Block.
- t. Secure the 18P Connectors to the Vehicle Harness using 1 Wire Tie.
- u. Secure the V2 Harness to the Vehicle Harness using 1 Wire Tie.



4. Microphone Installation.

- Reassemble the Vehicle except for the Glove Box Under Cover.



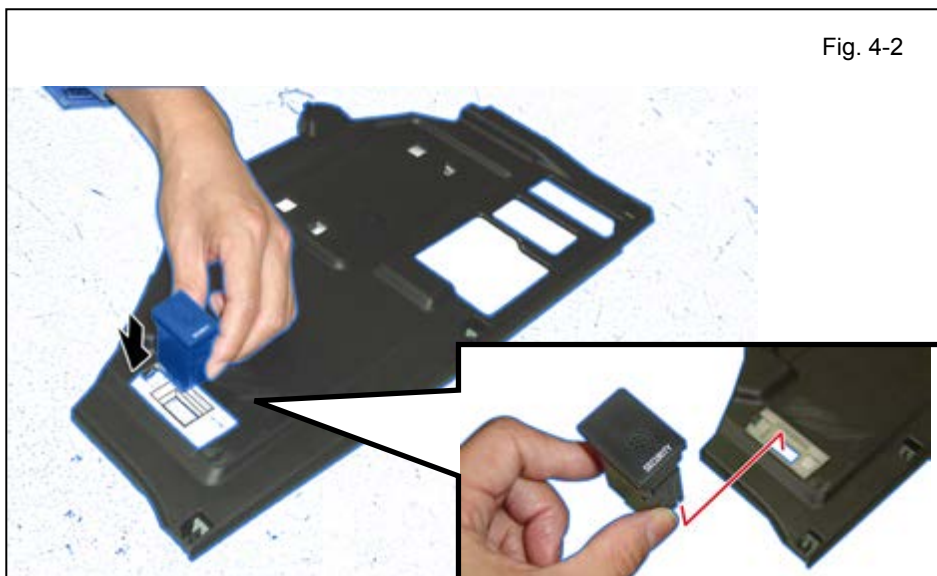
NOTE: When reinstalling Knee Airbag, make sure to tighten the Bolts to 88.5 in•lbf (10 N•m).



VERIFY: That all Connectors are plugged in.



VERIFY: That panels fit together properly, with no uneven gaps.



- Install the GBS Microphone to the Glove Box Under Cover as shown.

- c. Connect the V2 White 4P Connector to the Microphone's Connector.
- d. Reconnect the Vehicle's Connector.
- e. Reinstall the Glove Box Under Cover.

5. Complete the Installation.

- a. Verify that the Short Pin is Installed.
 - If not Install now.

For US Vehicles use the English Tags and Labels, and discard the Spanish Tags and Labels.

For Mexico Vehicles use the Spanish Tags and Labels, and discard the English Tags and Labels.

- b. Use Household Glass Cleaner to clean the inside of the Front Door Windows.
- c. Use a piece of Clear Tape to lift the Label off its protective backing.



CAUTION: Do not touch the adhesive surface.

- d. Attach the Label as shown.



NOTE: Make sure to Align the Label according to Etching or Other Label.

REPEAT: steps b-d with the other Window.

- e. Position the Negative Battery Cable at the original factory position.



- Tighten the Nut to 61 in•lbf (6.9 N•m)



CAUTION: Do not touch the Positive terminal.

- f. Clean up and Remove trash.
- g. Sealed in its protective bag, place the Owner's Manual in the Glove Box.
- h. Reset the power windows.
- Turn the ignition "ON."
 - Lower the Windows halfway.
 - Pull up on the Power Window Switches until the windows close.
 - Continue to hold up on the switches for a minimum of 1 Second.
- i. Reset the Moon Roof. (if equipped)
- Turn the ignition "ON."
 - Open the Moon Roof halfway.
 - Push and hold the Moon Roof Switch to close until the Moon Roof closes.
 - Continue to hold the switch for a minimum of 1 Second.

Accessory Function Checks

Roll up all windows, and exit the vehicle with the remote.



For Smart Vehicles: Take out the Smart Key and the Smart Card Key from the Vehicle. Place them 7 ft. (2 meters) or more away from the Vehicle.

Perform		Look For
1	Lock the doors to start the system's arming process.	The turn signal lights flash once. All doors lock. The Security LED lights up.
2	Wait 30 seconds.	Security LED starts flashing; the system is now armed.

Perform the following check in a temperature controlled environment (50°- 90°F)

3	With the tip of a key, or Striker Tool pulled all the way out (PPO only), tap the center of the driver's door windows to trigger the alarm.	The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
4	Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.	The horn stops sounding. All the lights stop flashing and/ or turn off. The Security LED turns off.



For Smart Vehicles: If the alarm does not trigger during functional verifications the Smart Key and Smart Card Key might be too close. Move them farther from the vehicle and test the system again.

NOTE: If the alarm still does not trigger during the section test, increase the GBS sensitivity to the next setting and test again.

NOTE: If you do not disarm the system, the alarm will last 20 seconds. It is not necessary to check the alarm duration.

Vehicle Appearance Check

Perform		Look For
1	After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)








Vehicle Function Checks

Function	Function
----------	----------

Enter the Vehicle

<input type="checkbox"/> Dome/Courtesy Lights	<input type="checkbox"/> Steering Wheel Column Adjusts Without Interference
<input type="checkbox"/> Horn	

Start the Vehicle

<input type="checkbox"/> Starter	<input type="checkbox"/> Gauges
<input type="checkbox"/> Panel/Switch Illumination	<input type="checkbox"/> ABS Light (if equipped) <i>If the warning light remains on, it may indicate a system malfunction.</i> 
<input type="checkbox"/> Lamp Failure Sensor <i>If the warning light remains on, it may indicate a system malfunction.</i> 	<input type="checkbox"/> Track/Skid Control Light (if equipped) <i>If the warning light remains on, it may indicate a system malfunction.</i> 
<input type="checkbox"/> Seat Belt Warning Light <i>If the warning light remains on, it may indicate a system malfunction.</i> 	<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.</i> <i>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"/> Air Bag Warning Light <i>If the warning light remains on, it may indicate a system malfunction.</i> 	
<input type="checkbox"/> Cruise Control Light (if equipped) 	

Using a Mirror or Assistant check the following.

<input type="checkbox"/> Trunk/Tailgate/Bed Lights (if equipped)	<input type="checkbox"/> Tail Lights
<input type="checkbox"/> Brake Lights	<input type="checkbox"/> Daytime Running Lights (if equipped)
<input type="checkbox"/> Backup Lights	<input type="checkbox"/> Marker Lights
<input type="checkbox"/> Clearance Sonar (if equipped)	

Stop the Engine, Place the Vehicle's IG in the ON position.

<input type="checkbox"/> Hazard Lights	<input type="checkbox"/> Turn Signal Lights
<input type="checkbox"/> Head Lights	<input type="checkbox"/> Fog Lights (if equipped)
<input type="checkbox"/> High Beams	<input type="checkbox"/> Accessory Controls/Illumination (if equipped)
<input type="checkbox"/> Power Side Mirrors (if equipped)	<input type="checkbox"/> Convenience Memory Settings (if equipped)
<input type="checkbox"/> Power Sliding Door (if equipped)	<input type="checkbox"/> Rear Sunshade (if equipped)

Function		Function	
<input type="checkbox"/>	Front Wiper/Washer	<input type="checkbox"/>	Rear Wiper/Washer (if equipped)
<input type="checkbox"/>	Power Sun/Moon Roof (if equipped)	<input type="checkbox"/>	Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
<input type="checkbox"/>	Clock (if equipped)	<input type="checkbox"/>	Navigation System (if equipped)
<input type="checkbox"/>	Audio/Video (if equipped)	<input type="checkbox"/>	USB Connections (if equipped)
<input type="checkbox"/>	Steering Wheel Audio Control (if equipped)	<input type="checkbox"/>	HVAC
<input type="checkbox"/>	Front Windshield Defogger (if equipped)	<input type="checkbox"/>	Rear Window Defogger (if equipped)
<input type="checkbox"/>	Side Mirror Defogger (if equipped)	<input type="checkbox"/>	Accessory Power Socket (if equipped)
<input type="checkbox"/>	Massage Seats (if equipped)	<input type="checkbox"/>	Heated/Vented Seats (if equipped)
<input type="checkbox"/>	Glove Box Light (if equipped)	<input type="checkbox"/>	Passenger Air Bag Switch (if equipped)
<input type="checkbox"/>	Power Locks (if equipped)	<input type="checkbox"/>	Power Windows (if equipped)
<input type="checkbox"/>	Power Seats (if equipped)	<input type="checkbox"/>	Key Sensor Buzzer