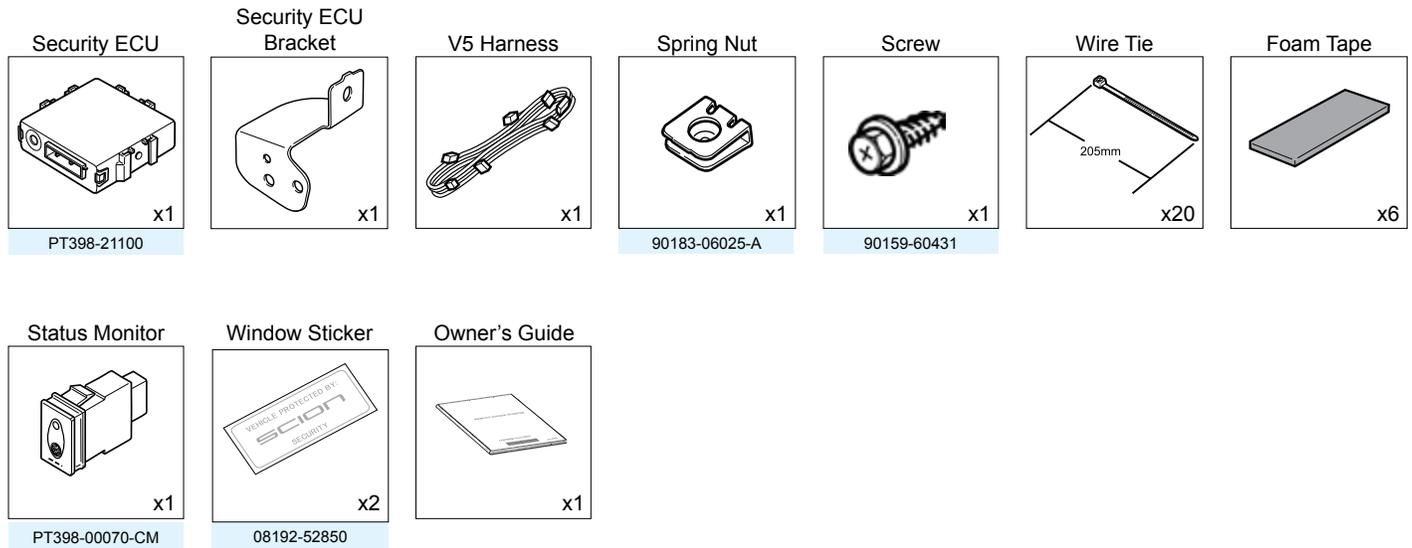


**Part #: PT398-21110**

**Conflicts:** Do not install into Vehicles with Factory Alarm System or Vehicles with Smart Key.

**Kit Contents**



Service Part #'s

**Additional Items**

(may be required)

Item#	Description

**Recommended Sequence of Application**

Item#	Description
1	TVIP V4 Remote Engine Starter
2	TVIP V5 RS3200 PLUS
3	Hands Free BLU Logic
4	Audio / Navigation Unit

**Recommended Tools**

Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
<b>Special Tools</b>	
Striker Tool	CAD-E IADS P/N ALL 02-016-01
<b>Installation Tools</b>	
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: 48 in•lbf (5.4 N•m), Driver's Knee Airbag: 88.5 in•lbf (10 N•m)
Tape	Clear, Electrical
Utility Knife	
Socket	10mm, extension
<b>Special Chemicals</b>	
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 SCION dealer for a copy of this document.







- g. Dislodge the Driver's Knee Airbag carefully.

- Remove 4 Bolts



**CAUTION:** Do not disconnect the Airbag Connectors.

- h. Wrap the Airbag in a Blanket or the like and place it on top of the TVIP box.



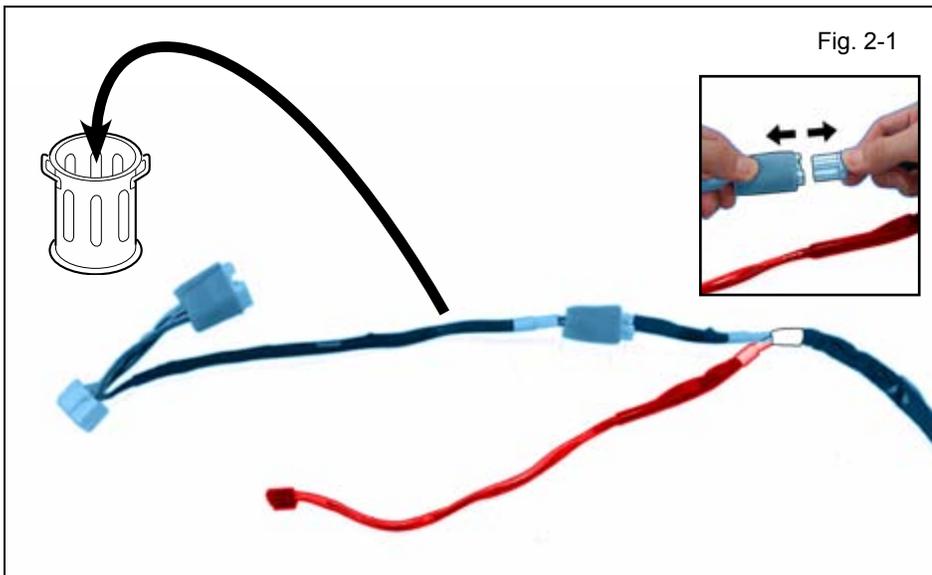
**CAUTION:** Position the Airbag as to Prevent stress on the Airbag Harness.

- i. Remove the Center Cluster Panel.

- j. Remove the Driver's Audio Bracket.
  - Remove 2 Bolts.

**IF EQUIPPED w/AUDIO UNIT**

- k. Remove the Audio Unit.
  - Remove 4 Bolts.



**2. V5 Harness Installation.  
(Driver's Area)**

**V4/V5 ADD-ON ONLY**

- a. Disconnect the V5 Harness's 2P Connectors.
  - Discard the 2P Male Connector's Harness.
  
- b. Locate and Remove the Tape securing the V4 Harness's 2P Connector.
- c. Disconnect the 2P Connector from the V4 Harness.
  - Discard the 2P Jumper Connector.

- d. Connect the V5 Harness's 2P Connector into the V4 Harness's 2P Connector.

- e. Secure the V5 Harness's White Tape Marker to the Vehicle Harness right next to the Harness Clamp with 1 Wire Tie.

- f. Secure the V5 and V4 Harnesses to the Vehicle Harness with 1 Wire Tie.

**Skip to step o.**

**V5 ONLY**

- g. Secure the V5 Harness's 2 White Tape Markers to the Vehicle Harness right next to the Harness Clamp with 1 Wire Tie.

h. Secure the V5 2P Connectors to the Vehicle Harness with 1 Wire Tie.

i. Disconnect the Vehicle's 8P IG Connector.

j. Plug the V5 Harness's 8P Connectors in between the Vehicle's 8P IG Connectors.

- k. Secure the 8P Connectors to the Vehicle Harness with 1 Wire Tie.

- Bundle up the 8P Connectors and Harness as shown.



**CAUTION:** Make sure not to include the Yellow Airbag Wires when securing the 8P Connectors.

- l. Secure the V5 Harness to the Vehicle Harness with 3 Wire Ties.



**NOTE:** Place the V5 Harness parallel to the Vehicle Harness.

- m. Push Down and Forward on the Steering Wheel Column.

- Release the Tilt and Telescopic Lever.

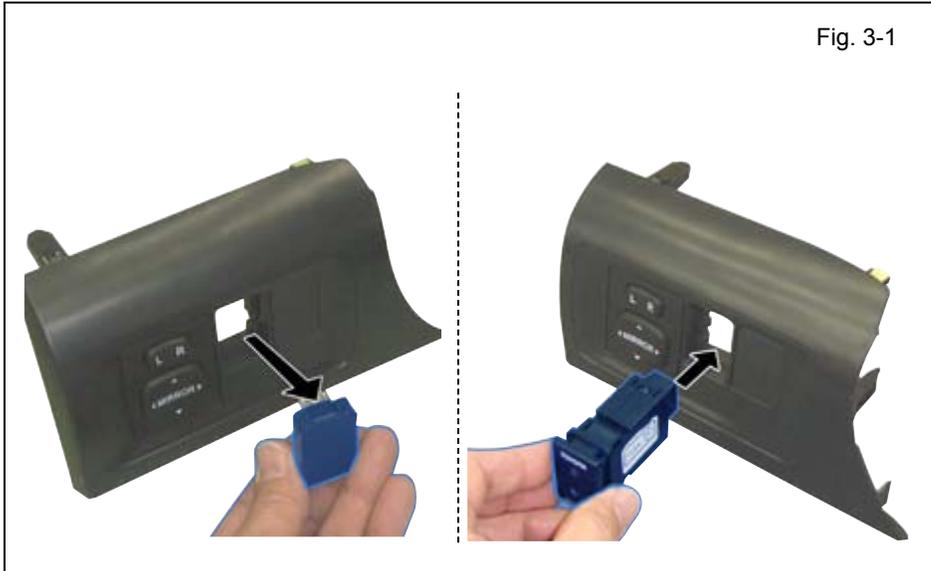
- n. Secure the V5 Harness to the Vehicle Harness with 1 Wire Tie.



**CAUTION:** Make sure the V5 Harness is not placed between the Vehicle Harness and the Steering Motor.

- o. Route the V5 Harness from the White Tape Marker towards the Driver's Junction Box Area.
- p. Secure the V5 Harness to the Vehicle's Mirror Switch Harness with 1 Wire Tie.

- q. Route the V5 Harness toward the Driver's Cluster Area.
- r. Secure the V5 Harness to the Vehicle Harness next to the Harness Clamp using 1 Wire Tie.
- s. Secure the V5 Harness's Red Tape Marker to the Vehicle's Mirror Harness with 1 Wire Tie.



### 3. Status Monitor Installation.

- a. Remove the Left Knockout Cover from the Cluster Panel.
- b. Install the Status Monitor.

- c. Connect the V5 Black 4P Connector to the Status Monitor.
- d. Reinstall the Cluster Panel to the Vehicle.
  - Reconnect the Vehicle Connector.

**4. V5 Harness Installation.**  
**(Driver's Side ~ Center Area)**

- a. Route the rest of the V5 Harness towards the Center Cluster Area.

- b. Secure the V5's Sky Blue Tape Marker to the Vehicle's Brace with 1 Wire Tie.

- c. Secure the V5 Harness's Relay to the Vehicle's Brace with 1 Wire Tie.

**V5 ONLY**

- d. Connect the V5 5P Connector to Vehicle's 5P Pre-connector.

- e. Secure the 5P Connectors to the Vehicle Harness with 1 Wire Tie.



**NOTE:** Make sure the 5P Connectors do not block the Audio USB connector.

**Go to section 5.**

**V4/V5 ADD-ON ONLY**

- f. Cut the Wire Tie securing the 5P Connectors.
- g. Disconnect the V4 5P Connector from the Vehicle's 5P Pre-Connector.

h. Remove the Tape securing the V5 Female 5P Connector.

i. Connect the V5 Female 5P Connector to the V4 5P Connector.

j. Connect the V5 5P Connector to the Vehicle's 5P Pre-Connector.

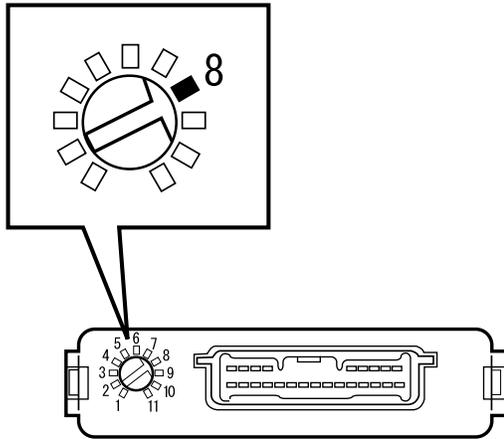
k. Secure the 5P Connectors to the Vehicle Harness with 2 Wire Ties.

**NOTE:** Make sure that the Audio USB Cable is not secured with V4/V5 Connectors.



Flat Blade Jeweler's Screwdriver

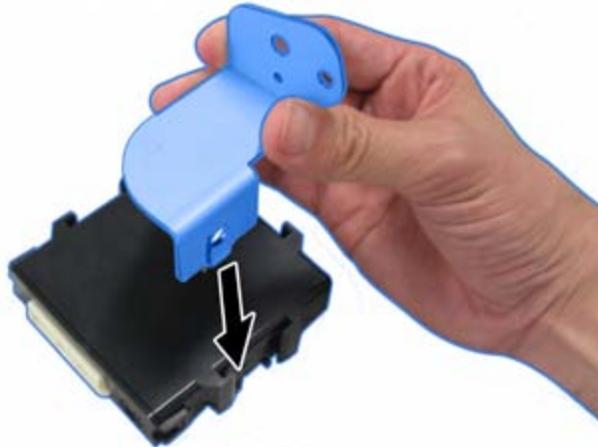
Fig. 5-1



### 5. V5 ECU Preparation and Installation.

- a. Set the GBS Sensitivity Value to 8.

Fig. 5-2



- b. Attach V5 ECU Bracket to the V5 ECU.

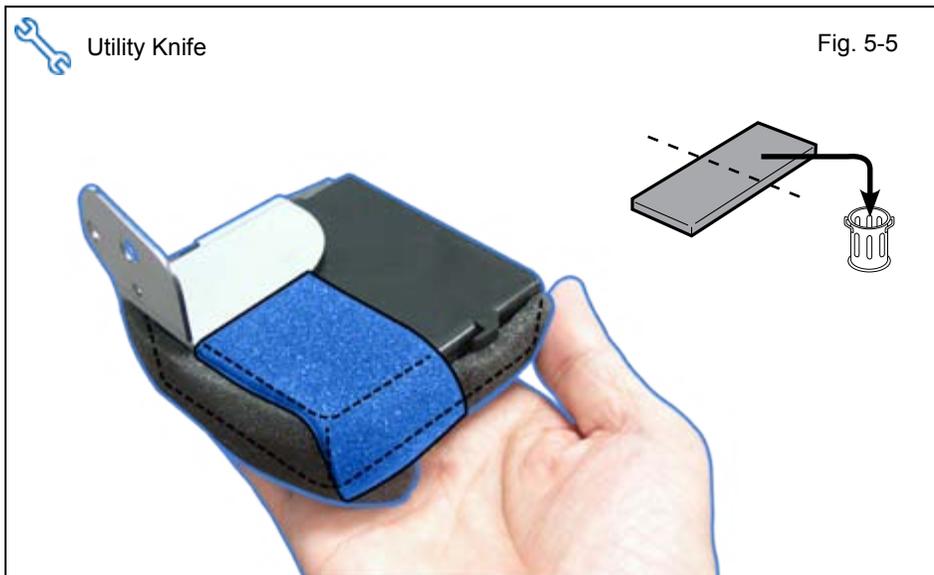
Fig. 5-3



- c. Attach 2 Foam Tapes to the V5 ECU.



- d. Attach 1 Foam Tape to the V5 ECU as shown.



- e. Attach 1/2 Piece of Foam Tape to the V5 ECU.

- f. Install the Spring Nut to the Vehicle's Plastic Brace.



- Make sure Spring Nut is installed correctly

- g. Connect the V5 24P Connector to the V5 ECU.

- h. Install the V5 ECU using the supplied Screw.



**NOTE:** Make sure the Vehicle's Guide Pin is seated correctly.

**6. V5 Harness Installation.  
(Center Cluster Area)**

- a. Secure the V5 Harness to the Vehicle Harness with 1 Wire Tie.
- b. Secure the V5 Harness to the Vehicle's Brace with 1 Wire Tie.

- c. Connect the V5 16P Connector to Vehicle's 16P Connector.

- d. Secure the V5 Harness to the Vehicle's Reinforcement with 1 Wire Tie.

**NOTE:** Do not secure Vehicle Wires or Cable.

- e. Secure the 16P Connectors to the Vehicle's Plastic Brace with 1 Wire Tie.
  - Place the 16P Connectors behind the Vehicle's Plastic Brace.

## 7. Reassembly.

- a. Reinstall the Driver's Side Knee Airbag.
  - Install 4 Bolts.



**NOTE:** Make sure to tighten the Bolts to 88.5 in•lbf (10 N•m).

- b. Using VDC approved cleaner and cleaning method, clean the area indicated on the Lower Steering Column Cover.
- c. Apply 2 Foam tapes.



**NOTE:** Do not perform above steps if Foam Tapes are already present.

- d. Reinstall the Lower Steering Column Cover.

e. Reassemble the Vehicle.



**NOTE:** Make sure that all Connectors are reconnected.



**NOTE:** Verify that panels fit together properly, with no uneven gaps.

f. Verify that the Short Pin is installed.

- If not install now.

## 8. Label Installation.

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



**CAUTION:** Do not touch the adhesive surface.

c. Attach the Label as shown.



**NOTE:** Make sure to Align according to Etching or Other Labels.

**REPEAT:** steps a–c with the other Window.

## 9. Complete the Installation.

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



- Tighten the Nut to 48 in•lbf (5.4 N•m).



**CAUTION:** Do not touch the Positive Terminal.

- b. Clean up and Remove Trash.
- c. Sealed in its protective bag, place the Owner's Manual in the Glove box.

**Accessory Function Checks**

**Roll up all windows, and exit the Vehicle with the remote.**

	<b>Perform</b>	<b>Look For</b>
1	Press and release the remote control lock button 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.
3	Press and release the remote control's unlock button to disarm the system.	The turn signal lights flash twice. The driver's door unlocks. The Security LED stops flashing.

**Open the driver's door, insert the key into the ignition switch and turn it to "ON." Roll down all the windows, remove the key and exit the vehicle.**

4	Arm and disarm the system with the remote again, then wait 30 seconds.	The doors automatically relock. The system automatically starts the arming process.
5	Press and release the remote control's unlock button again to stop the arming process.	Refer to step 3
6	Insert the key into the driver's door key cylinder and turn it toward the front of the vehicle to start the arming process.	All doors lock. The Security LED lights up.
7	Wait 30 seconds.	Security LED starts flashing; the system is now armed.
8	Reach inside and manually unlock the driver's door to trigger an alarm.	The driver's door automatically relocks. The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
9	Manually unlock the driver's door again and hold it unlocked, open the door, then sit in the driver's seat.	The driver's door lock attempts to lock repeatedly. The horn continues to sound repeatedly. The headlights and turn signal lights continue flashing. The Security LED remains on.
10	Insert the key into the ignition switch and turn it to "START" to stop the alarm.	The horn stops sounding. All the lights stop flashing and/or turn off. The Security LED turns off. The starter cranks and the engine starts.

**Turn the key back to "LOCK", remove it and then exit the vehicle.**

11	With the door open, press the lock switch on the door to lock the doors, then close the door to start the system's arming process.	All doors lock. The Security LED lights up.
12	Wait 30 seconds.	Security LED starts flashing; the system is now armed.

13	Reach inside and manually unlock the front passenger's door to trigger an alarm.	The front passenger's door automatically relocks. The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
14	Press and release the remote control's unlock button to stop the alarm.	The horn stops sounding. All the lights stop flashing. The Security LED turns off.

**Roll up all windows, remove the key and exit the vehicle.**

15	Press and release the remote control's lock button to start the arming process.	Refer to step 1.
16	Wait 30 seconds.	After 30 seconds, the Security LED starts flashing; the system is now armed.

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

17	With the tip of a key, or Striker Tool pulled all the way out (PPO only), tap the center of the driver's door window to trigger the alarm.	The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
18	Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.	Refer to Step 10

**NOTE:** If the alarm does not trigger during the Glass Breakage 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
<input type="checkbox"/>	After accessory installation and removal of protective cover(s), perform a visual inspection of the vehicle.	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) (if equipped)  <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 Light	<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"/>	HVAC
<input type="checkbox"/>	Steering Wheel Audio Control (if equipped)	<input type="checkbox"/>	Rear Window Defogger (if equipped)
<input type="checkbox"/>	Front Windshield Defogger (if equipped)	<input type="checkbox"/>	Accessory Power Socket (if equipped)
<input type="checkbox"/>	Side Mirror Defogger (if equipped)	<input type="checkbox"/>	Heated/Vented Seats (if equipped)
<input type="checkbox"/>	Massage Seats (if equipped)		
<input type="checkbox"/>	Glovebox 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

