

**TOYOTA Highlander 2011 - CAR LINK (W/O Remote Start)**

**Part Number: 00016-00077**  
**Accessory Code: QL1**



**Conflicts**

Note:

**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	Carlink Module
2	1	Hardware Bag
3	2	24" Cable Ties
4		
5		
6		
7		
8		

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description
1	4	Black T-Taps
2	4	Red T-Taps
3	1	Gray Foam Pad
4	6	8" Black Cable Ties
5	2	Relay Terminals
6	1	Fuse Holder
7		
8		

**Additional Items Required For Installation**

Item #	Quantity Req'd.	Description

**Recommended Tools**

<b>Safety Tools</b>	
<b>Special Tools</b>	
<b>Installation Tools</b>	
Phillips Screwdriver	Straight-Slot Screwdriver
Ratchet w-Extension	10mm Socket
Diagonal Wire Cutters	Common Pliers
Flashlight	Nylon Trim Tool
Torque Wrench	36in lbs
<b>Special Chemicals</b>	

**Color Applicability/Trim Level**

Accessory Color																				
	Vehicle/Trim Color																			

**General Applicability**

Models: 6942,6943,6946,6948,6951,6953,6954,6956,6964,6966

**Vehicle Service Parts (May be required for reassembly)**

Part Number	Qty	Description
00016-35108-01	1	Control Module

\*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.

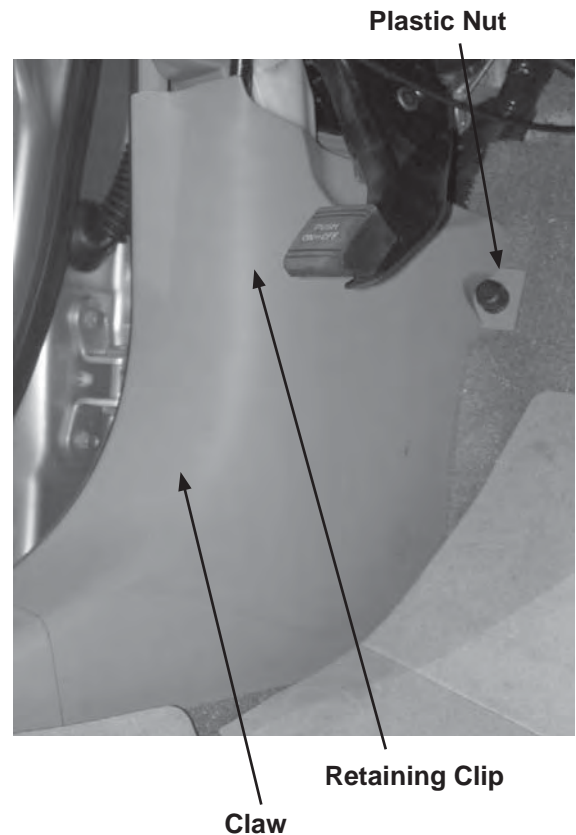
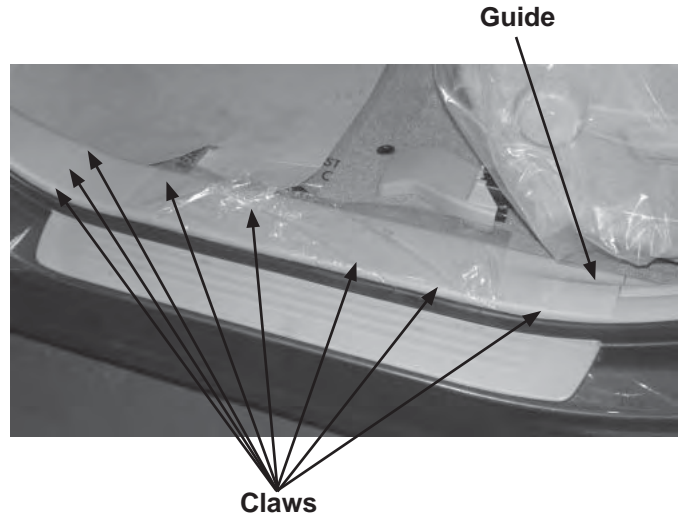
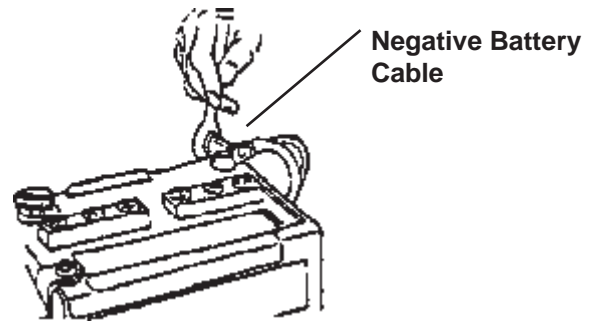
**INSTALLATION PREPERATION**

Before starting installation:

1. Familiarize yourself with the installation instructions.
2. Inspect the kit components (Refer to Kit Contents and Hardware Bag Contents).

**VEHICLE PREPERATION**

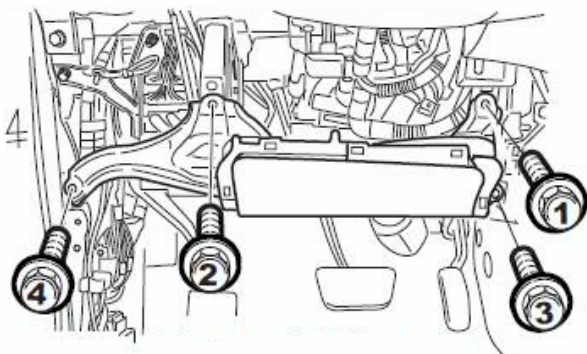
1. place protective coverings on vehicle.
2. **“IMPORTANT.....IMPORTANT”**  
**Disconnect Negative Battery Cable.**
3. Remove the driver’s door front scuff plate, by disengaging the (8) claws and (1) guide.
4. Remove the driver’s front kick panel, by removing the (1) plastic retaining nut and disengaging the (1) retaining clip and (1) claw.



**VEHICLE PREPERATION; continued**

- Loosen the lower instrument finish panel, by removing the (2) 10 mm bolts and disengaging (3) claws and (10) retaining clips.
- Remove the hood release lever and disengage any connectors that may be attached to the finish panel. Remove finish panel from the vehicle.

**Optional Step:** If needed the driver's knee airbag may be unbolted and placed on protective cover, with no tension on Airbag harness. When reinstalling follow the torque sequence & provided torque.



**Tighten to 7ft. lbs**

**MOUNTING CARLINK MODULE**

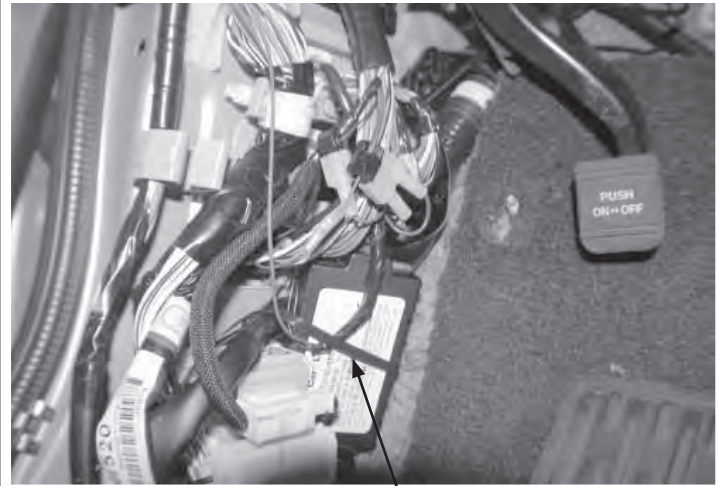
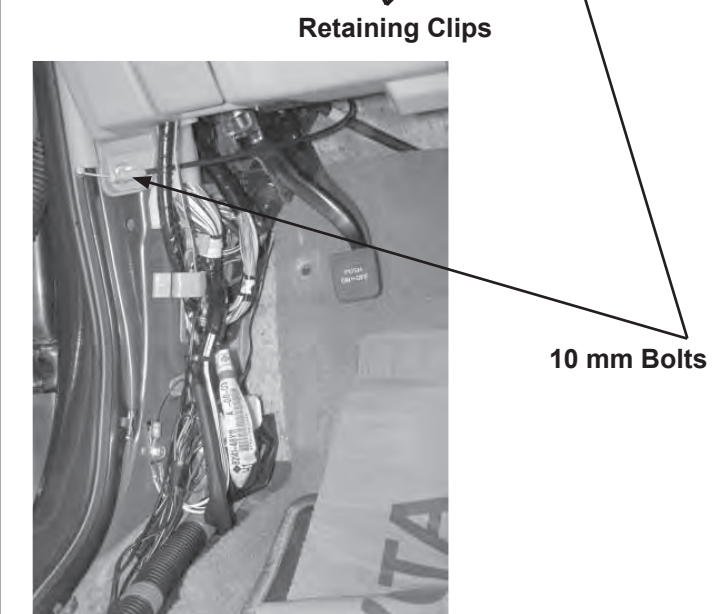
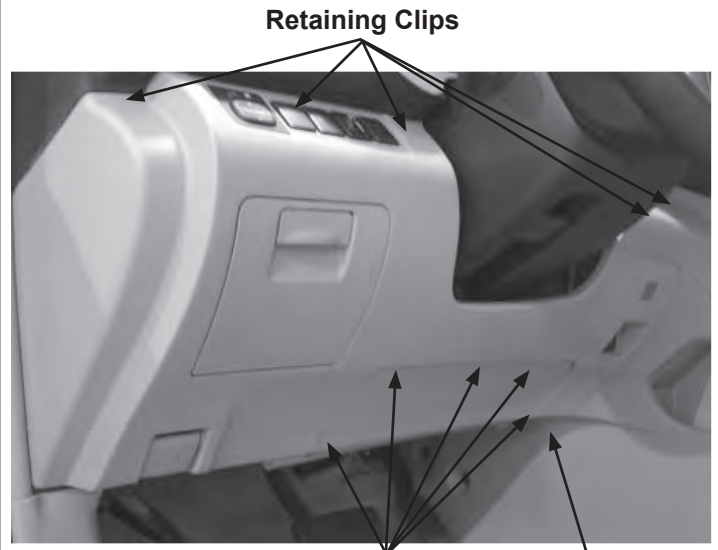
- Cut provided tape to fit module. Using foam tape, cover back of module leave the car link information exposed, as shown below.



- Using provided cable tie, secure the Carlink module to the existing factory harness located in the driver's kick panel area.

**CONNECTING THE CARLINK MODULE HARNESS**

- Carefully follow the wiring diagram and connector details on the following 2 pages.



WIRING DIAGRAM

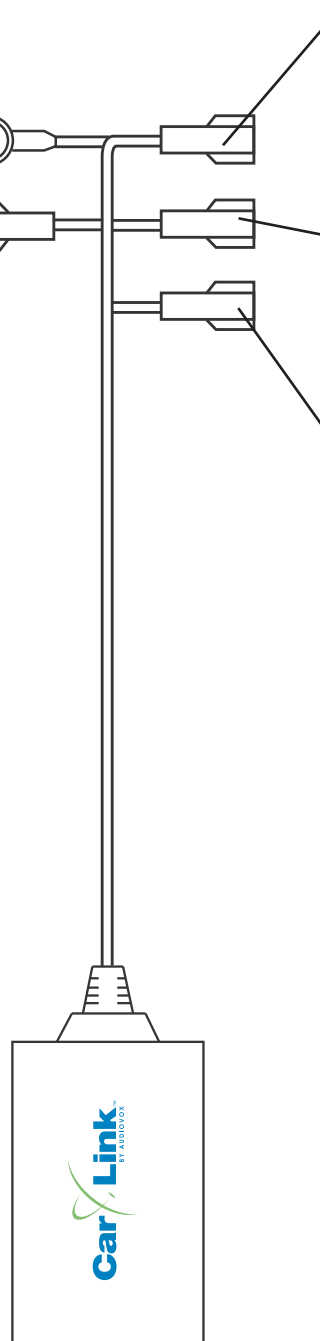
**BLACK WIRE (Chassis Ground):**  
Connect the ring terminal to the 10 mm bolt located in the driver's kick panel area.

**BROWN WIRE (Parking Lights):** Using supplied terminal mini-tap, connect to Terminal 2 of the Tail Light relay. See Detail A.

**RED WIRE (+12VDC):** Use Red T-Tap and connect to the LT. GREEN wire in connector HD1, location 8.

**YELLOW WIRE (Key Unlock):** Use Red T-Tap and connect to the VIO-LET wire in connector HD1, location 12.

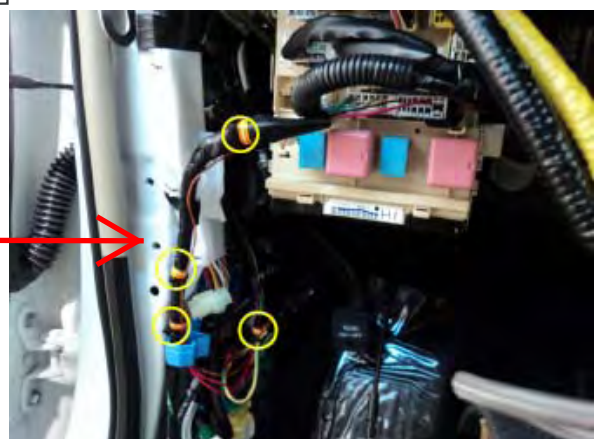
**GREEN WIRE (Key Lock):** Use Red T-Tap and connect to the BROWN wire in connector HD1, location 6.



**DETAIL A**

Remove the Tail Light relay located at the driver's JB. Place supplied mini-tap over Terminal 2 of the relay. Reinstall the Tail Light relay into the driver's JB. Connect the Brown wire from the Car Link module to the male spade connector.

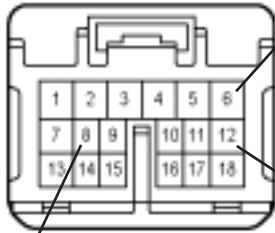
Approximately wire tie location



# CONNECTOR DETAILS

## 1. CONNECTOR HD1: Door Locks

LOCATION: Driver's side kick panel area.



Key Lock  
Brown Wire  
Location 6

Key Unlock  
Violet Wire  
Location 12

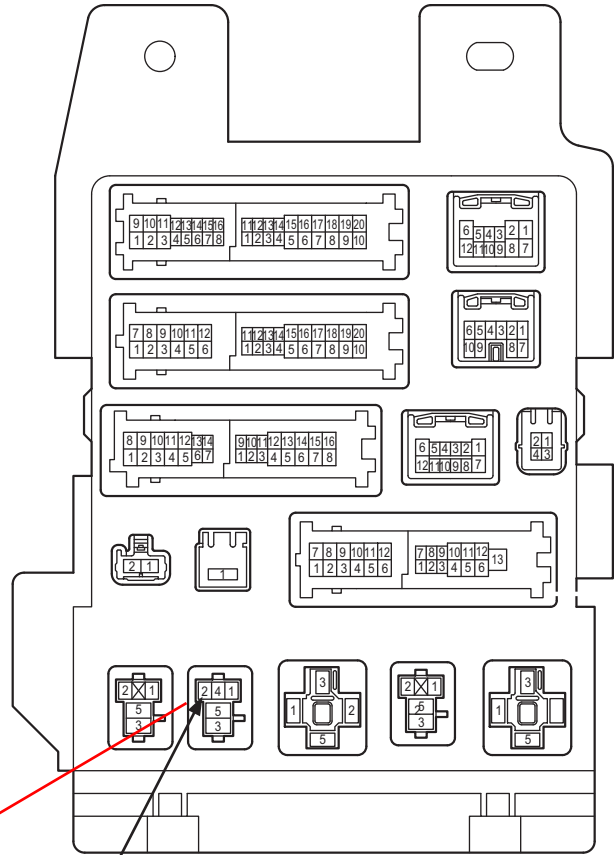
12VDC  
Lt. Green Wire  
Location 8

VEHICLE	CARLINK MODULE
Brown	Green
Violet	Yellow
Lt. Green	Red



## 2. TAIL LIGHT RELAY: Tail Lights

LOCATION: Driver's JB.

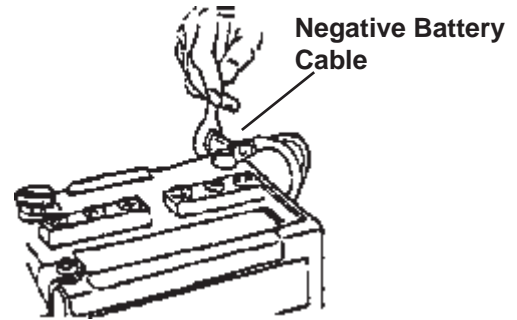


Tail Lights  
Tail Light relay  
Terminal 2

VEHICLE	CARLINK MODULE
Terminal 2 (Tail Light relay)	Brown

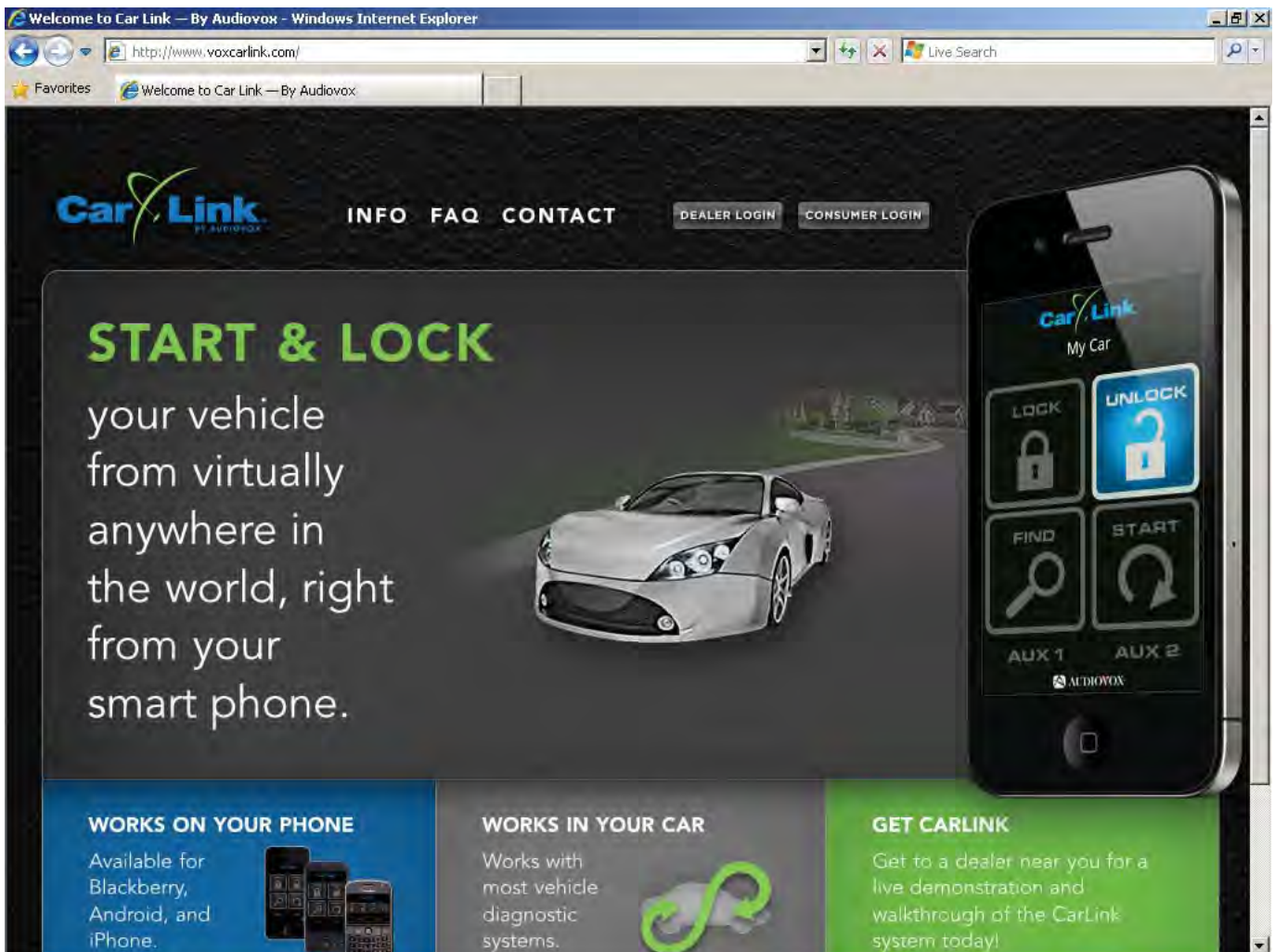
VEHICLE RE-ASSEMBLY

1. Refer again to the vehicle repair manual and re-assemble all panels that were removed for installation back onto the vehicle.
2. Re-connect the negative battery cable. Torque to 36 in. lbs.



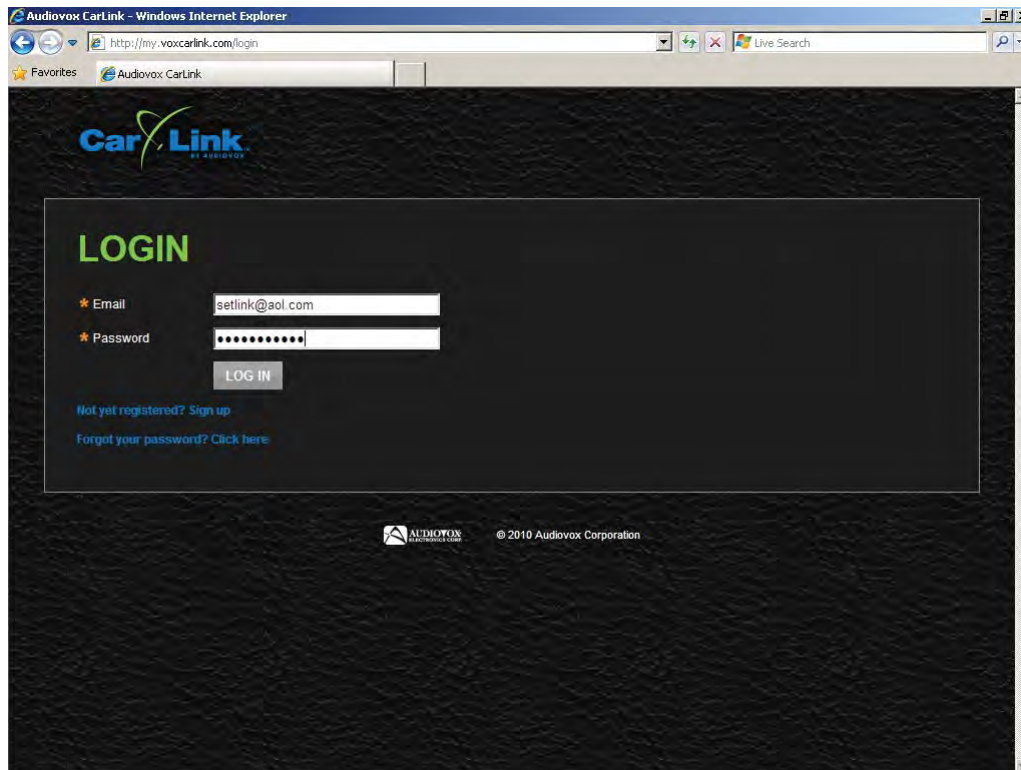
CONFIGURE AND TEST SYSTEM

1. Log into the Car Link website: [www.voxcarlink.com](http://www.voxcarlink.com)
2. Select **Consumer Login**.

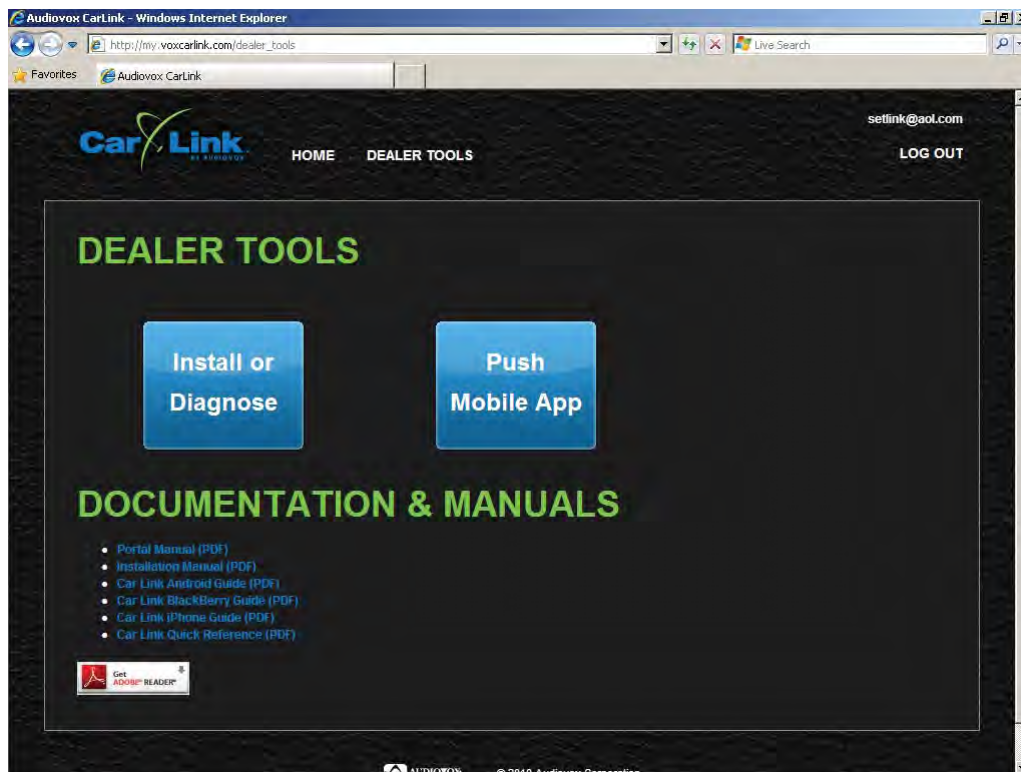


## CONFIGURE AND TEST SYSTEM; continued:

3. Enter **setlink@aol.com** into the email field.
4. Enter **newproducts** into the password field.
5. Select the **LOG IN** option button on the screen.

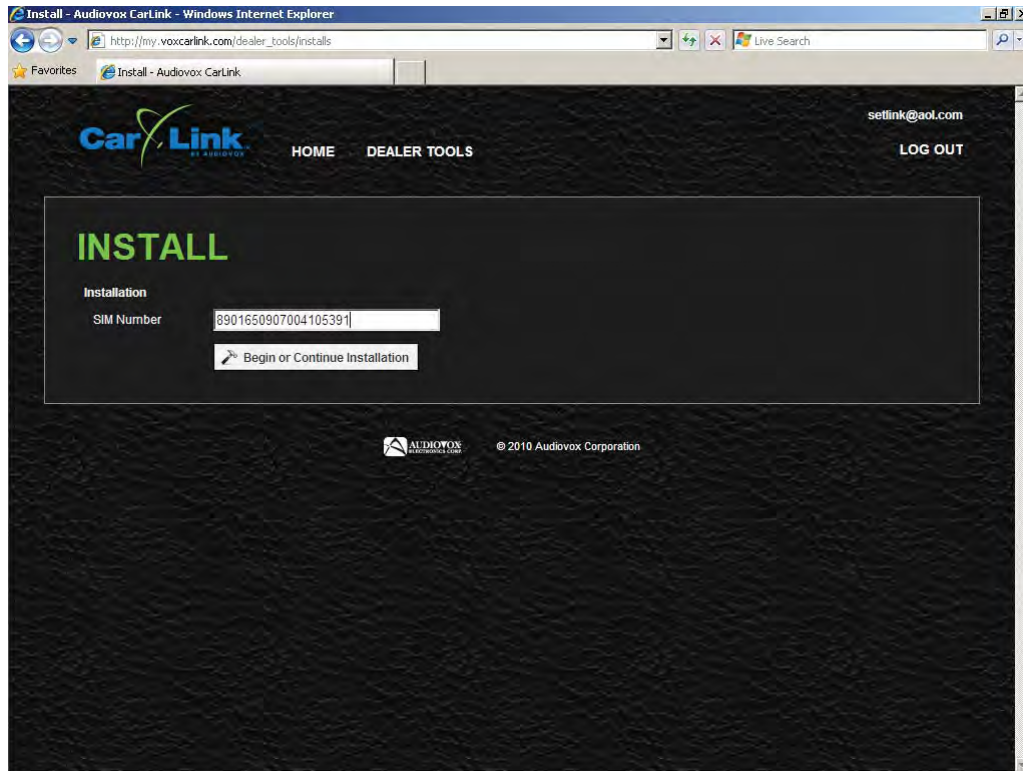


6. Select the **Install or Diagnose** option button on the screen.

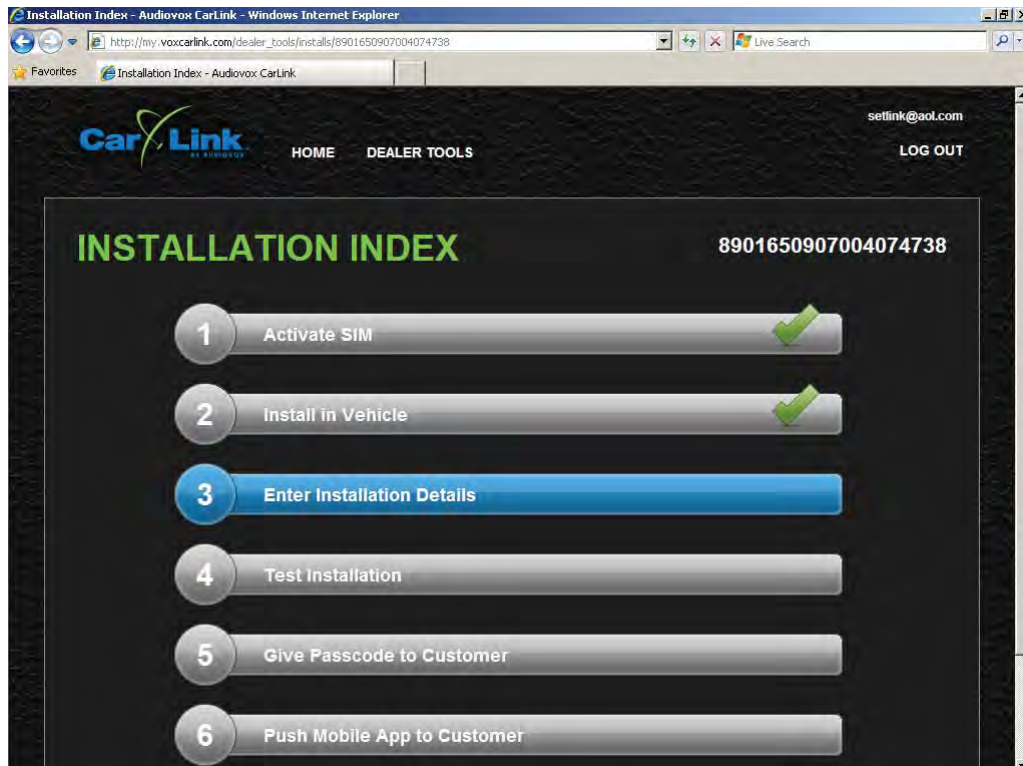


## CONFIGURE AND TEST SYSTEM; continued:

7. Enter the SIM number into the **SIM Number** field.
8. Select the **Begin or Continue Installation** option button on the screen.



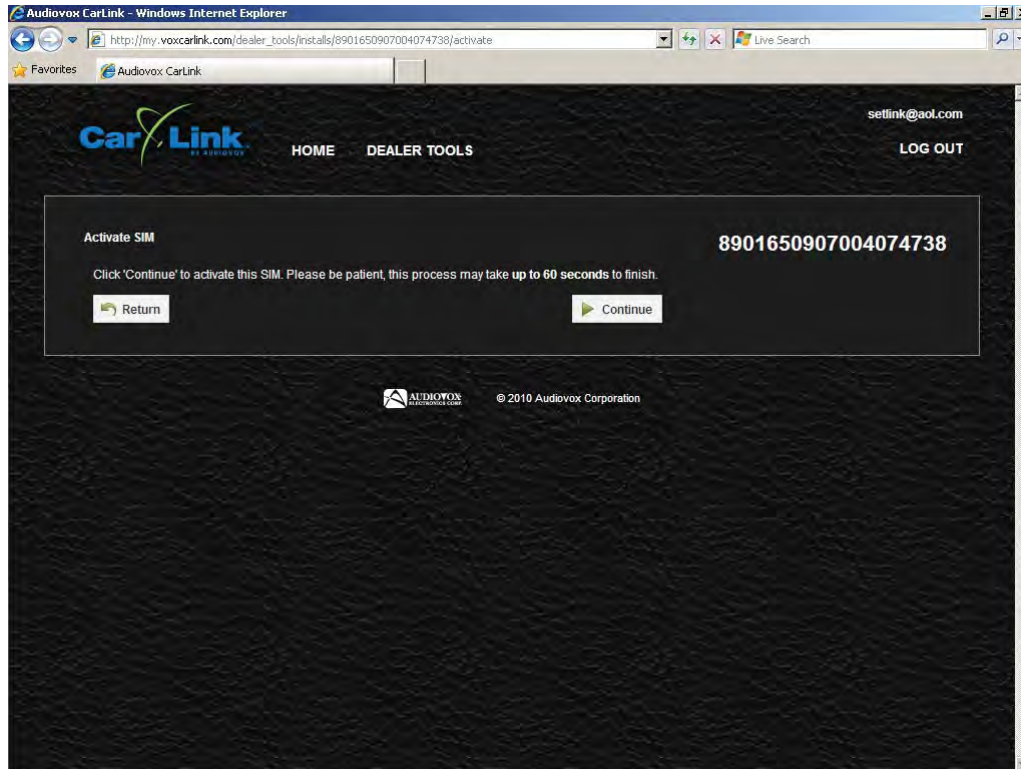
9. Select the **Activate SIM** option button on the screen.



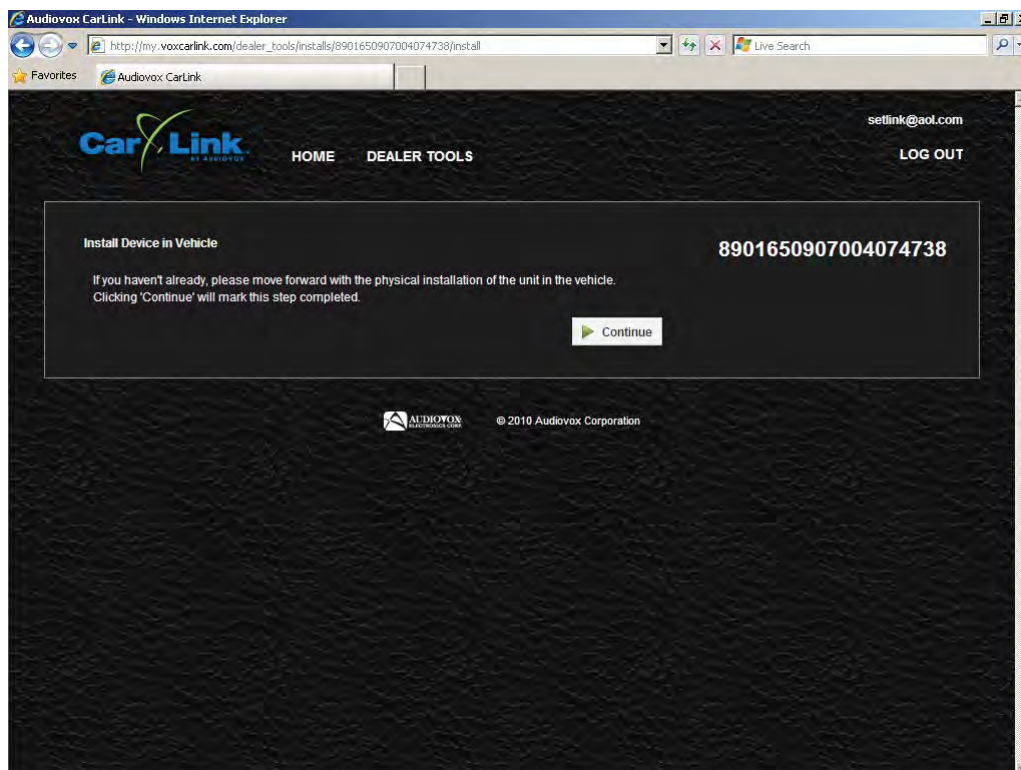


## CONFIGURE AND TEST SYSTEM; continued:

10. Select the **Continue** option button on the screen.

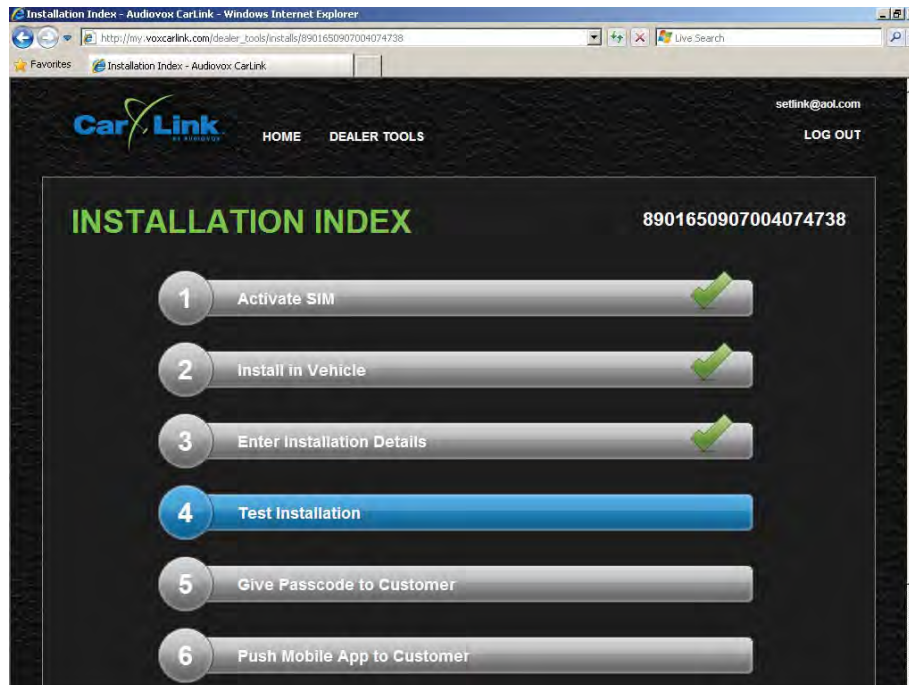


11. After the SIM card has been activated, select the **Continue** option button on the screen.



## CONFIGURE AND TEST SYSTEM; continued:

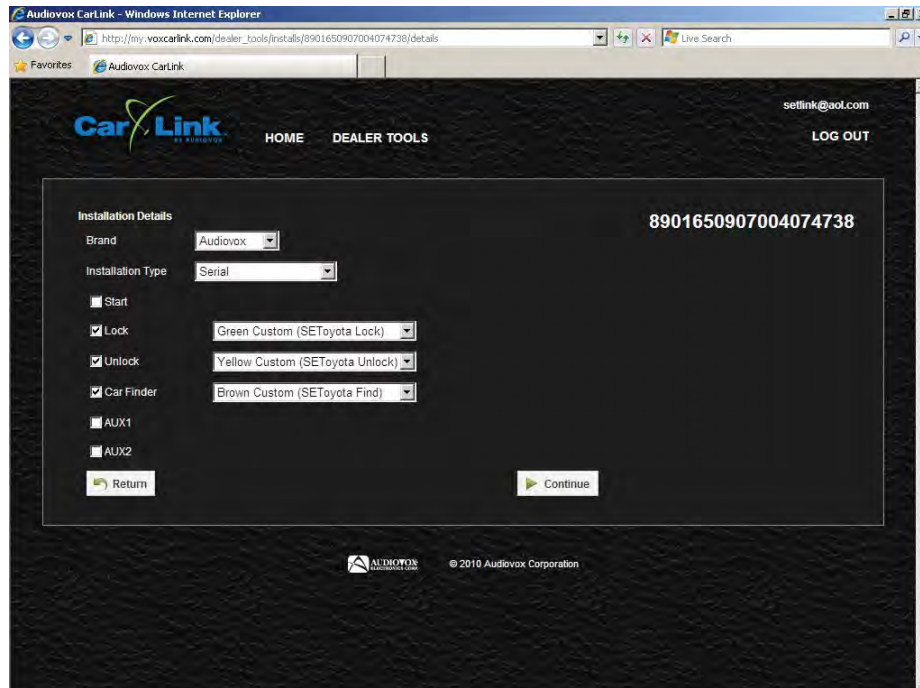
12. Select the **Install in Vehicle** option button on the screen.



13. Select the following options:

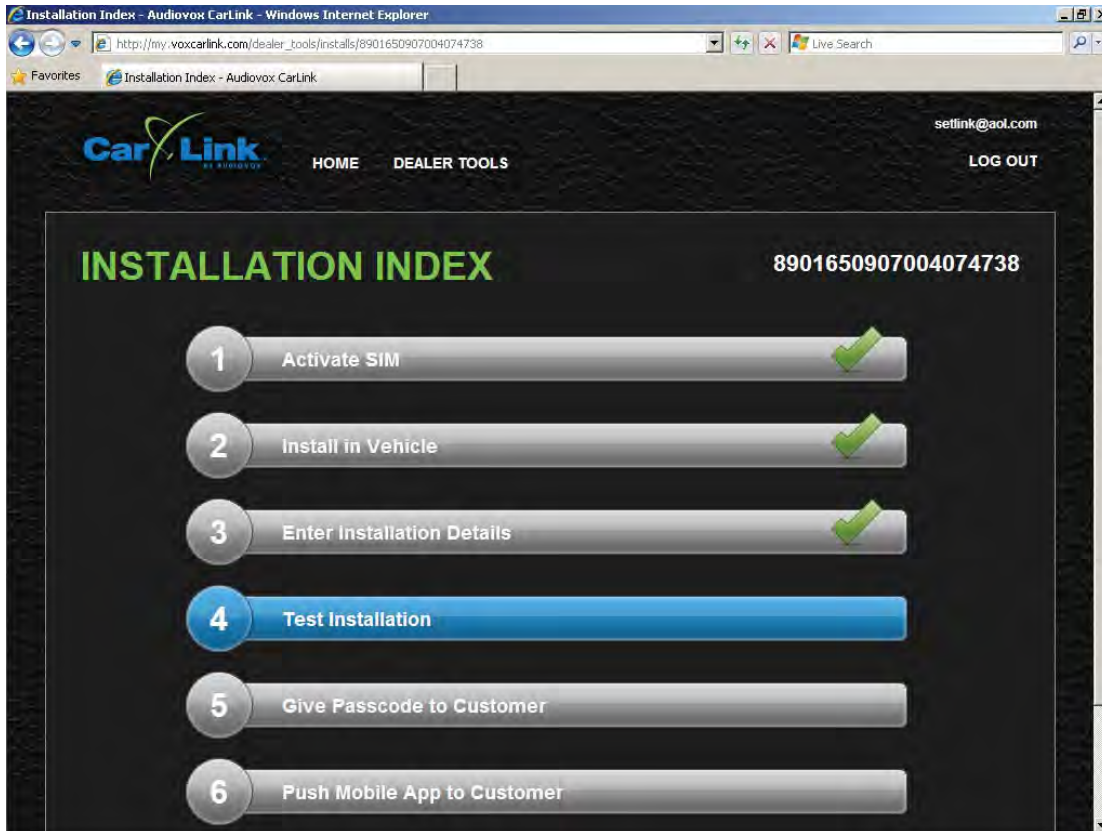
- A. Brand: **Audiovox**
- B. Installation Type: **Serial**
- C. Start - **Uncheck** box
- D. Lock - **Check** box
  - 1. **Green Custom (SET Toyota Lock)**
- E. Unlock - **Check** box
  - 1. **Yellow Custom (SET Toyota Unlock)**
- F. Car Finder - **Check** box
  - 1. **Brown Custom (SET Toyota Find)**
- G. Aux1 - **Uncheck** box
- H. Aux2 - **Uncheck** box

14. Select the **Continue** option button on the screen.

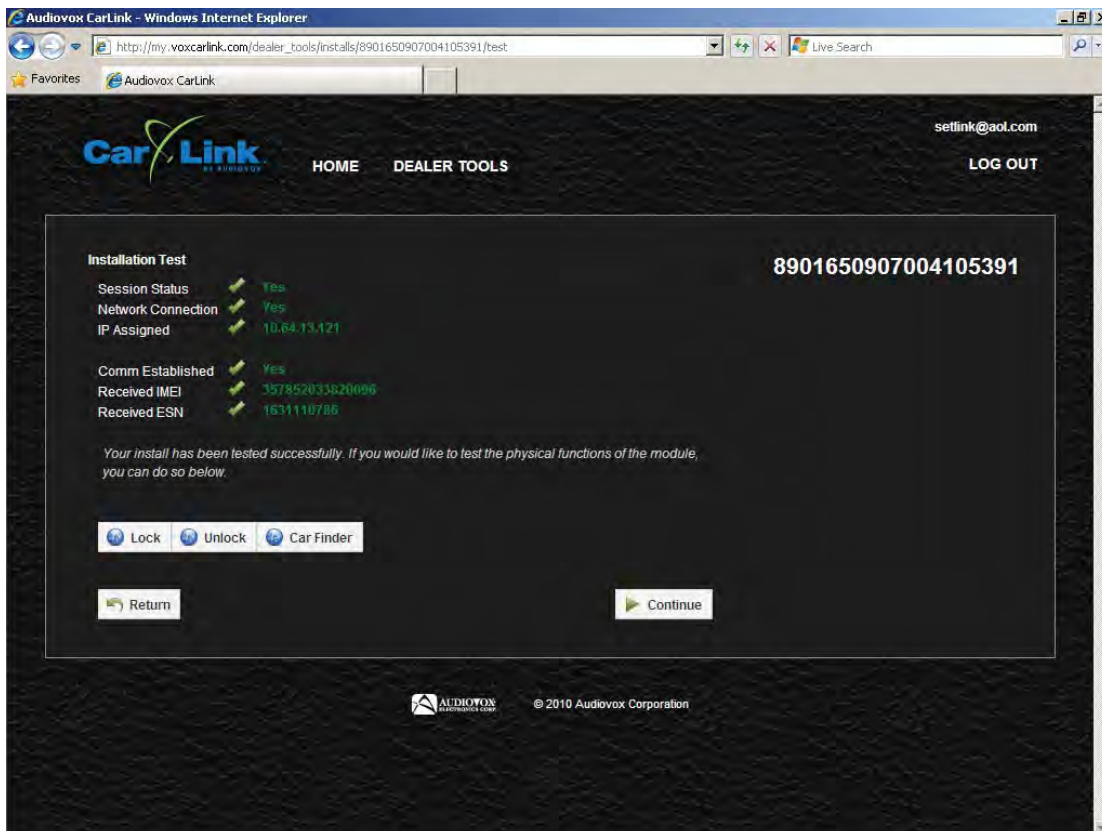


CONFIGURE AND TEST SYSTEM; continued:

15. Select the **Test Installation** option button on the screen.



16. Verify that the **Session Status**, **Network Connection**, **IP Assigned**, **Comm Established**, **Received IMEI** and **Received ESN** have **GREEN** check marks besides each field.



## CONFIGURE AND TEST SYSTEM; continued:

## 17. Test the system.

A. Select the **Lock** option button on the screen.

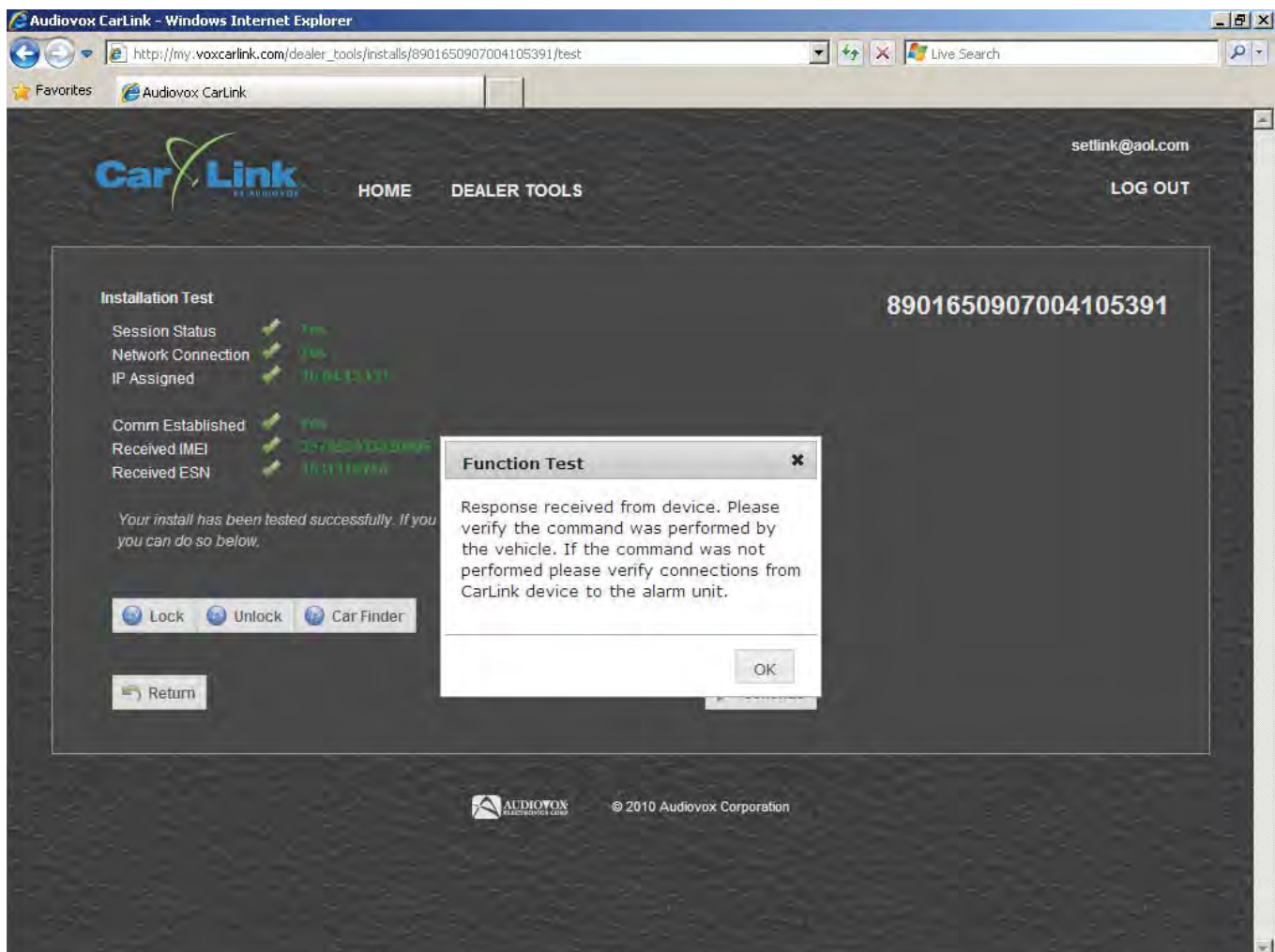
1. The vehicle's doors/hatch should lock and the parking lights should flash (1) time.
2. The white box stating "Response received from device...." should pop up.
3. Select the **OK** option button in the white box.

B. Select the **Unlock** option button on the screen.

1. The vehicle's doors/hatch should unlock and the parking lights should flash (2) times.
2. The white box stating "Response received from device...." should pop up.
3. Select the **OK** option button in the white box.

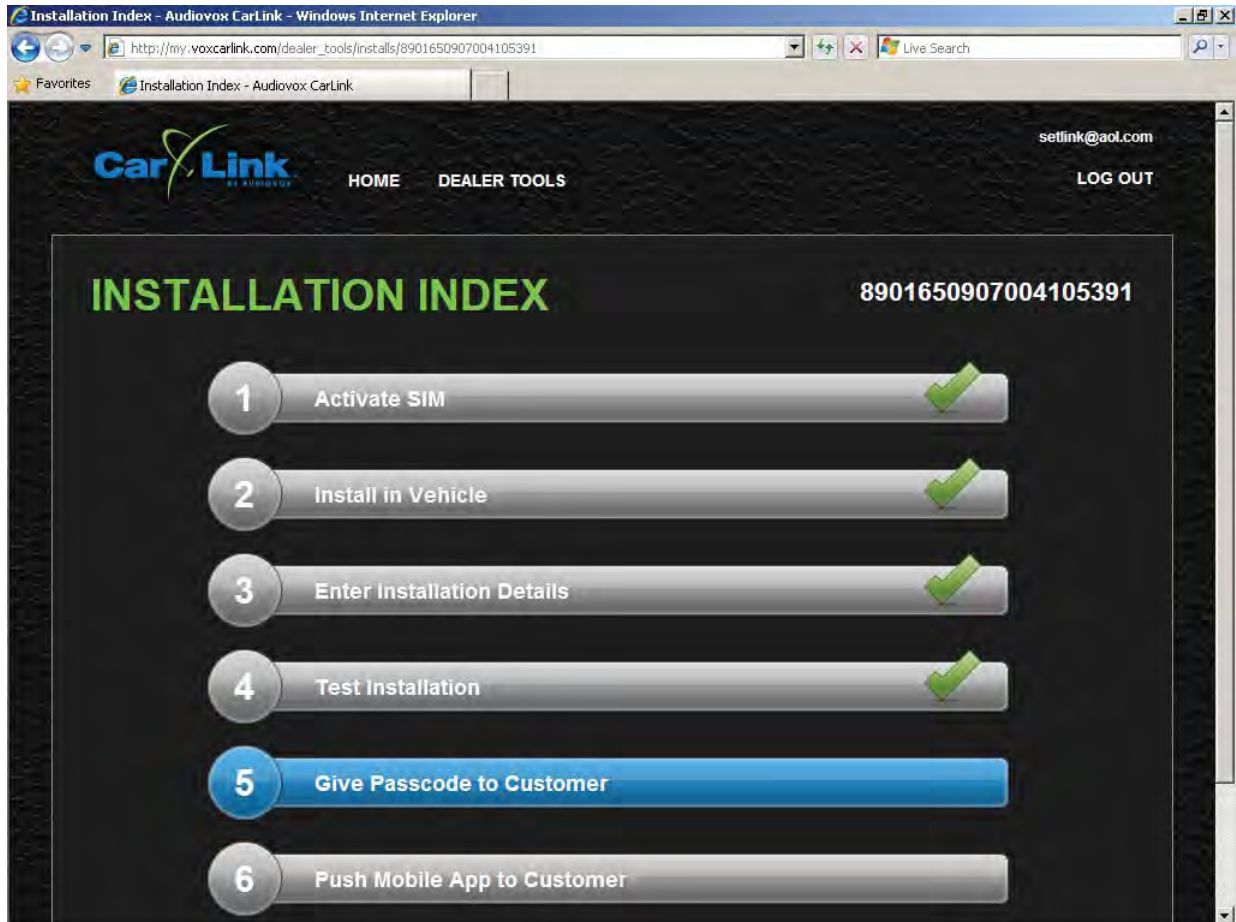
C. Select the **Car Finder** option button on the screen.

1. The vehicle's parking lights should flash for (60) seconds.
2. The white box stating "Response received from device...." should pop up.
3. Select the **OK** option button in the white box.



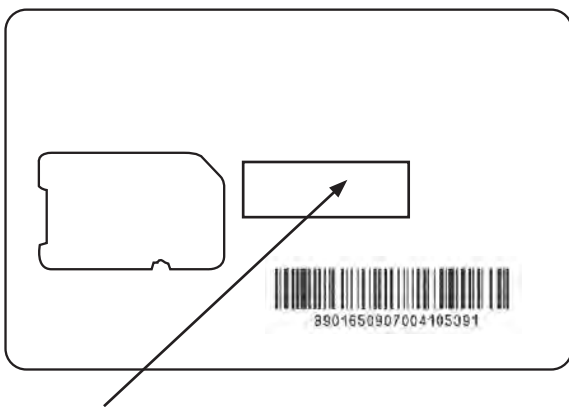
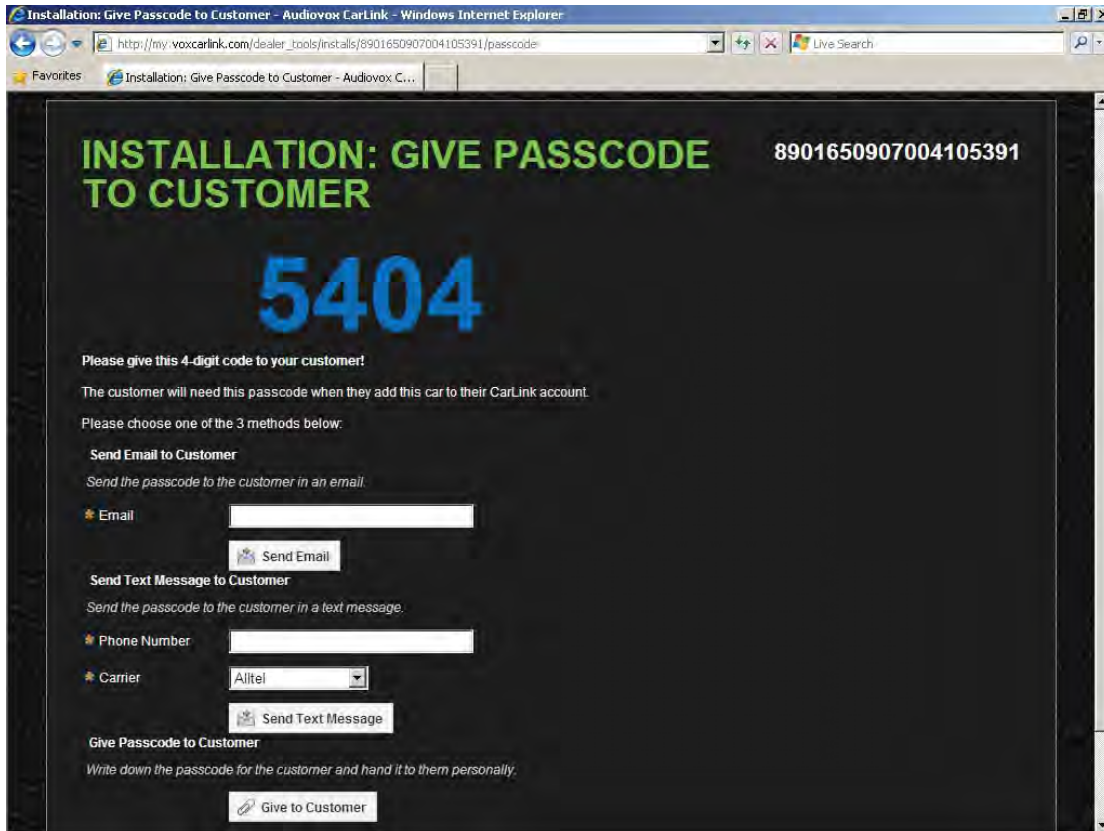
## CONFIGURE AND TEST SYSTEM; continued:

18. Select the *Give Passcode to Customer* option button on the screen.



CONFIGURE AND TEST SYSTEM; continued:

18. Copy 4-digit code onto the plastic SIM card holder.
19. Place SIM card holder in provided clear plastic bag, along with the Phone Guide cards.
20. Affix Car Link sticker to the first page of the vehicle's owner manual.



Write 4-digit code here

Owner's Manual

Place Car Link Sticker Here

**Your Toyota dealer**  
Your Toyota dealer will provide quality maintenance and any other assistance you may require.  
If there is not a Toyota dealer near you, please call the following number:

■ **U.S. OWNERS**

- In the U.S. mainland or Canada:  
Toyota Customer Experience Center  
1-800-331-4331 (Toll-Free)
- In Hawaii:  
Servco Automotive Customer Services  
1-888-272-5515 (Toll-Free)

■ **CANADIAN OWNERS**

- In Canada or the U.S. mainland:  
Toyota Canada Customer Interaction Centre  
1-888-TOYOTA-8 or 1-888-869-6828 (Toll-Free)

Please access our **websites** for further information.

- U.S. mainland: [www.toyota.com](http://www.toyota.com)
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- Canada: [www.toyota.ca](http://www.toyota.ca)

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21. Select the **Dealer Tools** option button on the screen.
22. Select the **Install or Diagnose** option button on the screen.
23. Installation is complete.

**VEHICLE FUNCTION CHECKLIST**

(These points must be checked to ensure a quality installation)

- Headlight**  
*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)
- Accessor Power Socket** (If equipped)
- Starter**
- Audio/Video** (If equipped)
- Power Rear 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 lights remains on, it may indicate a system malfunction.*
- Air Bag Warning Light**  
*If the warning lights remains on, it may indicate a system malfunction.*
- Lamp Failure Sensor**  
*If the warning lights remains on, it may indicate a system malfunction.*
- Track/Skid Control Light** (if equipped)  
*If the warning lights 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.*

**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.