TOYOTA **Prius C 2014** **Keyless Entry Upgrade**

Part Number:00016-47032
Code: QS10

TOYOTA
Southeast Toyota Distributors, LLC

Conflicts

1. Vehicle's with out factory immobilizer

Kit Contents

Item#	Quantity Req.	Description
1	1	Security Module
2	1	Shock Sensor, Dual Stage
3	1	LED / Valet Swicth
4	2	Window Warning Decals
5	1	Shock Sensor Ext. Harness
6	1	Main Harness
7	1	Hardware Bag
8	1	Owner's Manual
9	2	25" Black Cable Ties
10	1	Trim Bezel Knock Out

Hardware Bag Contents

Item#	Quantity Req.	Description
1	10	Black T-Taps
2	3	Blue T-Taps
3	3	Red T-Taps
4	1	2 1/4" x 2 1/4" Foam Pad
5	12	8" Black cable Ties
6	1	4 Pin Molex Connector
7	1	Fuse Holder

Recommended Tools

Safety Tools	
Special Tools	
Installation Tools	
Phillips Screwdriver	Straight-Slot Screwdriver
Rachet w/ Extension	10 mm Socket
Wire Cutters	Common Pliers
Flashlight	Nylon Trim Tool
Torque Wrench (48 in. lbs.)	
Special Chemicals	

Vehicle Service Parts (May be required for reassembly)

Item#	Qty	Description
00016-47032-01	1	Control Module
00016-47032-02	1	Shock Sensor
00016-47032-03	1	Main Installation Harness
00016-47032-06	1	Hardware Bag
00016-47032-07	2	Window Warning Decal
00016-47032-04	1	Shock Sensor Harness
00016-47032-05	1	LED / Valet Switch

General Applicability

Used on all Vehicles Equipped with Factory Keyless Entry.

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

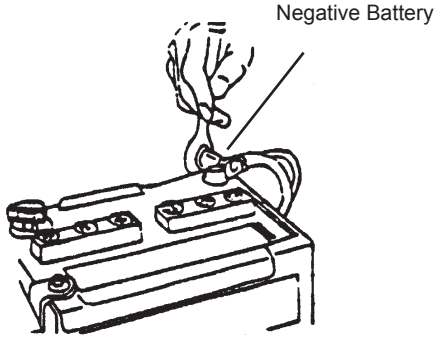
Before starting installation

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, re-checking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection,connector removal, etc.).

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.

REMOVE THE DRIVER'S SIDE SCUFF PLATE:

1. Refer to the vehicle repair manual, and carefully remove front scuff plate.

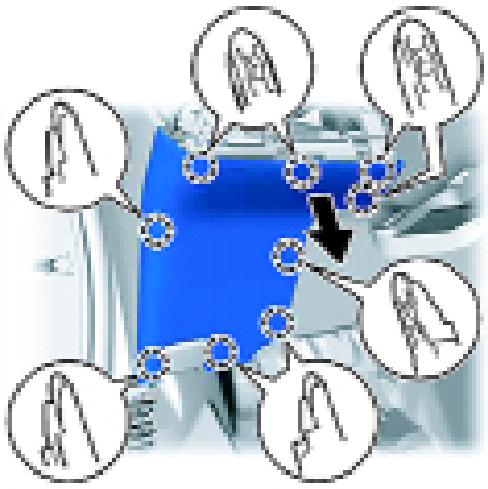
REMOVE THE DRIVER'S SIDE KICK PANEL:

1. Refer to the vehicle repair manual, and carefully remove front kick panel.

PREPARING FOR INSTALLATION

REMOVE THE LOWER INSTRUMENT FINISH PANEL (LH):

1. Carefully pull the lower finish panel outward from the vehicle dash to disengage the snap clips holding it place, then set the panel aside where it will not be damaged.



INSTALLING THE SECURITY SYSTEM

Mounting the L.E.D. / Valet Switch :

1. Locate the lower finish panel previously removed.

2. Remove the vacant knock out (far left knock out).

3. Locate supplied knock out. Remove the knurled mounting nut from the back of the switch, pass the wires through the hole, then secure the switch with the knurled nut.

4. Reinstall the knock out with L.E.D. back into the lower dash finish panel.

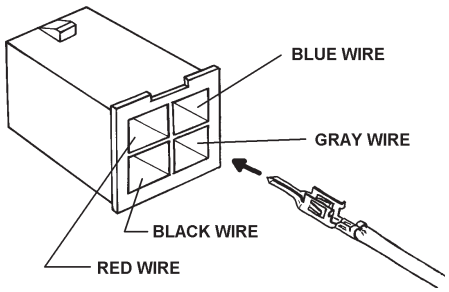
Knock Out

Preparing the L.E.D. / Valet Switch :

1. Locate the 4 pin Molex connector found in the hardware bag included in the kit.

2. Carefully plug the terminals at the ends of the 4 wires from the switch into the connector housing as shown.

IMPORTANT ! Be sure to align the terminal correctly before inserting it into the connector housing.



INSTALLING THE SECURITY SYSTEM

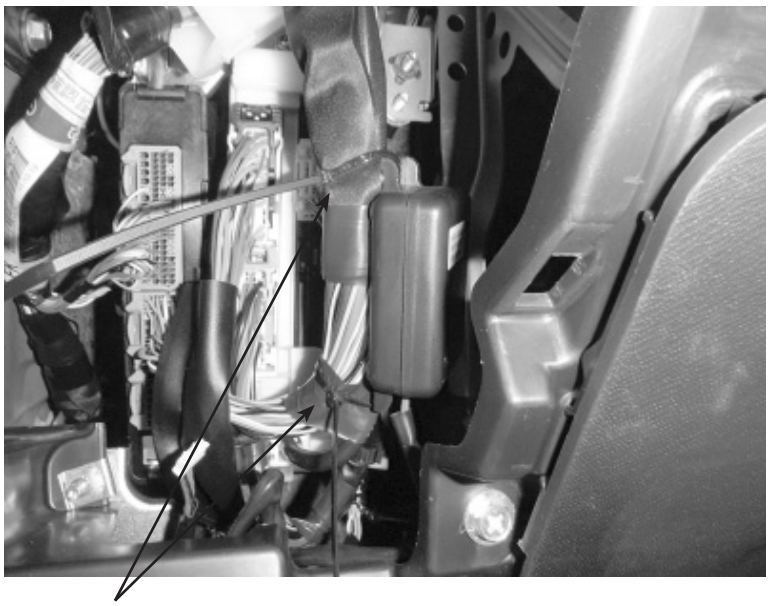
Mounting the Shock Sensor Module :

1. Connect the shock sensor harness to the shock sensor.

2. Use (2) of the short black cable ties provided in the hardware bag, and secure the shock sensor to the vehicle harness located to the left of the driver's crash knee airbag. Set the sensitivity knob to position 2.

3. Route the harness towards the control module, where it will not interfere with any sharp or moving objects.

4. Secure the harness along the routing path using the cable ties provided.



Cable Ties

IMPORTANT ! **Make sure that the brake pedal, accelerator pedal, and acceletor pedal linkages are free and clear of all security harnesses.**

Mounting the Main Control Module :

1. Connect the shock sensor extension harness to the control module.

2. Connect the main wiring harness to the control module.

3. Apply provided adhesive pad to the side of the control module. Using the adhesive pad, mount the control module to the plastic side of the dash assembly (to the left of the factoy harness).

4. Secure the control module to the factory harness with (1) long cable tie.

Mount control module to the left of this factory harness

INSTALLING THE SECURITY SYSTEM

Routing the Main Harness :

1. Route the portion of the harness which includes the Pink/White, Pink, Pink/Black, Blue/White, Green/Black and Black (ground) wires to the driver's kick panel area.

2. Route the portion of the harness which includes the (4) Brown, Red, Yellow, Brown/White, Blue, White, Green/Red wires to the driver's JB.

3. Secure the Brown/White (Not Used) wire to the main harness with cable ties.

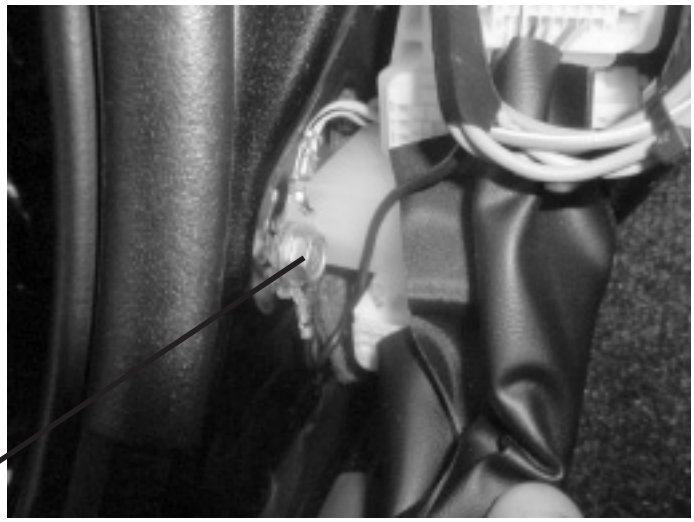
4. Secure the main harness along it's routing with the cable ties provided. Be sure that the harness is clear of all sharp and moving objects.

Connecting the Security System Harness :

SECURING MODULE GROUND:

1. Locate the factory ground lug in the driver's kick panel area. Secure the Impact Sensor harness black ground wire to the 10mm ground lug located in the driver's kick panel area.

2. Carefully follow the wiring diagram and factory connector details found on the following two pages.



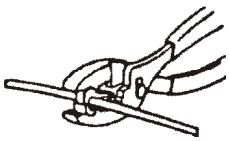
Ground Location

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

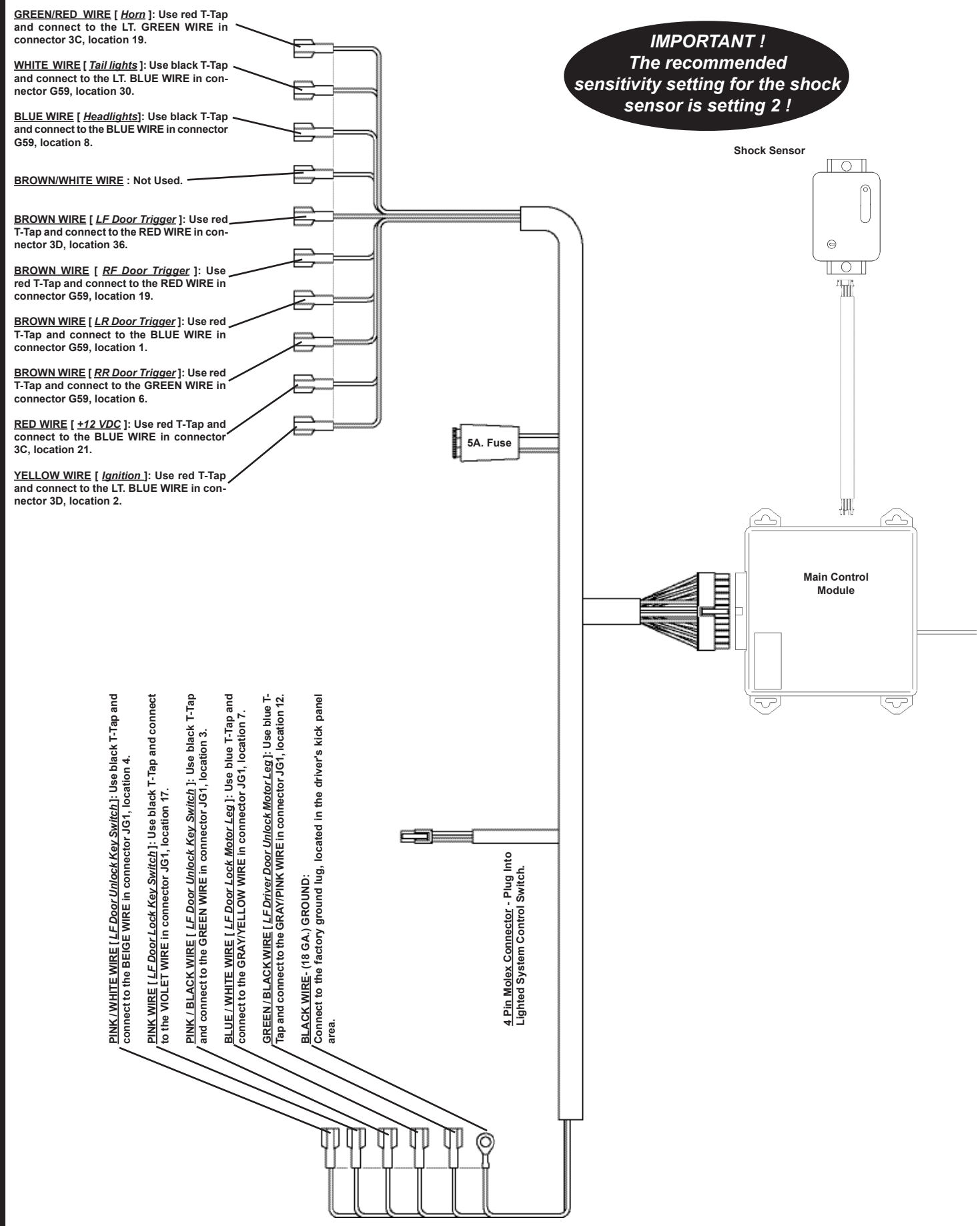
IMPORTANT! After installation, inspect and ensure that Keyless System Harnesses are clear of all HOT, SHARP or MOVING objects.

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 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.**

WIRING DIAGRAM - Prius C Keyless Entry Upgrade Alarm

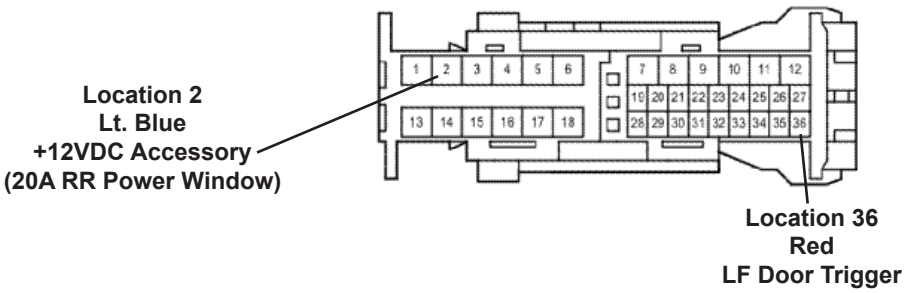
WIRING DIAGRAM



CONNECTOR DETAILS - Prius C Keyless Entry Upgrade Alarm

1. CONNECTOR 3D : Ignition / LF Door Trigger

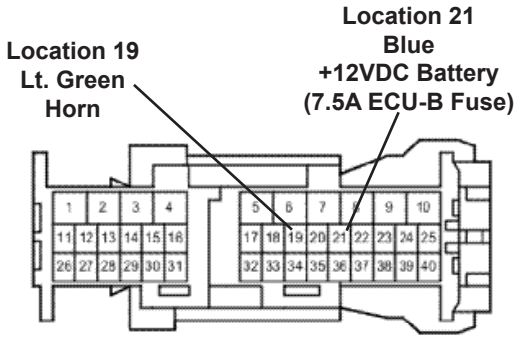
Location : At Driver's JB



ALARM	CAR	T-TAP COLOR
Brown	Red	Red
Yellow	Lt. Blue	Red

2. CONNECTOR 3C: 12+ VDC / Horn

Location : At Driver's JB.

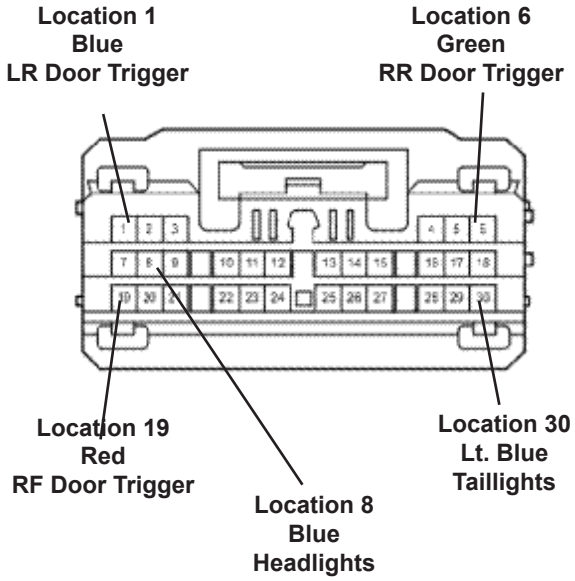


ALARM	CAR	T-TAP COLOR
Red	Blue	Red
Green/Red	Lt. Green	Red

Caution: There are multiple BLUE wires in this connector. Extreme care must be taken to ensure the proper BLUE wire is used.

3. CONNECTOR G59 : Door Triggers / Headlights / Taillights

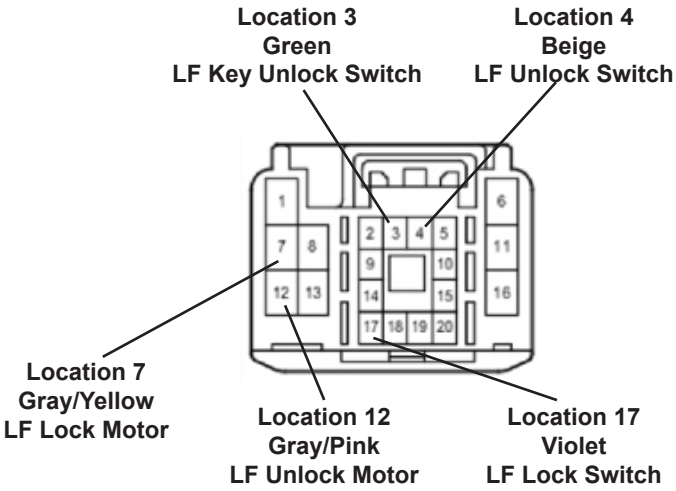
Location : Main Body ECU.



ALARM	CAR	T-TAP COLOR
Brown	Red (Pin 19)	Red
Brown	Blue (Pin 1)	Red
Brown	Green (Pin 6)	Red
Blue	Blue (Pin 8)	Black
White	Lt. Blue (Pin 30)	Black

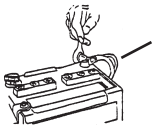
4. CONNECTOR JG1 : Locks

Location : Cowl Side Panel LH.



ALARM	CAR	T-TAP COLOR
Blue/White	Gray/Yellow	Blue
Green/Black	Gray/Pink	Blue
Pink	Violet	Black
Pink/White	Beige	Black
Pink/Black	Green	Black

TESTING ALARM SYSTEM:



A. RECONNECT THE BATTERY:
Connect Negative cable to vehicle battery and torque to 48in. lbs.

B. Test **BOTH** remote transmitters, one at a time. Press and release the "LOCK" button.

C. VALET CONTROL SWITCH:

1. Sit in the driver's seat, insert the ignition key and turn to the ON position.
2. Press the valet control switch and verify that the LED light responds. Light should go ON and OFF with actuation of the valet control switch.
3. With the LED indicator light ON, ignition OFF and key removed, the security system is in the valet mode and the alarm should not arm. Press the "LOCK" button, the parking lights will flash once, all doors will lock, headlights will come on for 20 seconds. Press the "UNLOCK" button, the parking lights will flash twice, driver's door only will unlock, headlights come on for 20 seconds.
4. Ignition key ON, LED light OFF, Ignition key OFF.

D. ARMING/DISARMING:

1. Put all vehicle windows down and close hood and all doors.
2. Press and release the "LOCK" transmitter button.
3. All doors should lock, parking lights flash once, horn chirps once, headlights come on for 20 seconds and the LED should flash slowly. (Note: If the parking lights flash three times and the horn chirps three times, check for an open door.)
4. Press the "UNLOCK" button, the horn chirps (2) times, parking lights flash (2) times, headlights come on for 20 seconds, driver's door only unlocks.

E. SHOCK SENSOR:

1. Press the "LOCK" button to arm the system. With the open palm **lightly** slap the steering wheel. You should hear short chirps from the vehicle horn. This is a check of the shock sensor "WARN-AWAY" function. Allow a few seconds for the shock to settle, then conduct the same check at various points around the vehicle. Sensitivity can be adjusted at the shock sensor for best response.
2. Slap the steering wheel, with slightly more force. The vehicle should go into full alarm. Press the "UNLOCK" button to disarm the system. Rearm the vehicle and conduct the same check at various points around the vehicle. Adjust sensitivity at the shock sensor for the best response.

F. IGNITION DISARM:

1. Sit in the driver's seat with all the doors closed. Press the "LOCK" button on the driver's door panel to arm the system. Insert the ignition key and turn to the start position. The alarm should disarm and the vehicle should start. If the alarm starts to sound and the vehicle does not start, refer to OPTION PROGRAMMING on page 10.

G. DEFECTIVE OR LOST TRANSMITTER:

1. Press the "LOCK" button to arm the system. Use the key to unlock and open the driver's door. The alarm will sound. Enter the vehicle, insert the ignition key and turn to the on position. Press the valet control switch once, the alarm should deactivate and the vehicle should now start.

H. REMOTE TRANSMITTER OPERATION:

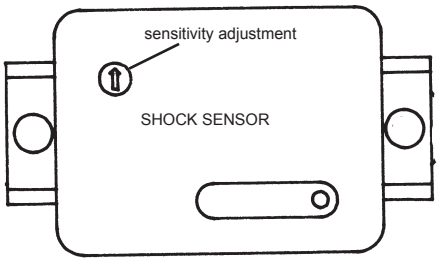
1. Press the "LOCK" button, the system should arm and lock all doors.
2. Press the "UNLOCK" button, the system will also disarm and unlock the driver's door.
3. Press the "UNLOCK" button a second time and all doors should unlock.

I. INTRUSION TEST:

1. Rearm the security system by pressing the "LOCK" button. Open any protected door. The system should simultaneously sound the horn and flash the parking lights.
2. Disarm the security system by pressing the "UNLOCK" button. The system should sound (4) chirps of the horn, the parking lights should flash (4) times, indicating vehicle intrusion.
3. The LED should indicate the point of intrusion after disarming the system. Observe the LED for 1 or 3 flashes. Compare your observations to the following.

(1) Flash = Shock
(3) Flashes = Vehicle Doors

SYSTEM AUTOMATICALLY CLEARS ALL STORED VIOLATIONS WHEN THE IGNITION SWITCH IS TURNED TO THE "ON" POSITION.



NOTE:
If installing the keyless upgrade security system in conjuction with the add-on fog light kit (SET P/N: 00016-47160) you must wait 30 seconds after arming or disarming the system before proceeding to fog light function testing.

COMPLETING THE INSTALLATION:

ASSEMBLE ALL REMOVED PANELS:

1. Refer again to the vehicle repair manual and re-assemble all panels that were removed. **Test throughly, all mechanical and electrical components disconnected and or removed from the vehicle during the installation of this accessory.**

PREPARING VEHICLE FOR DELIVERY:

Turn the arm/disarm chirps off:

1. Start with the LED/Valet switch in the off (out) position.
2. Turn the ignition key to the on position.
3. Turn the ignition key off, the immediately press and release the LED/Valet switch 3 times. (You will hear 2 chirps to confirm that the chirps were turned off.)

Place the system into Valet mode. (VPC only)

1. Start with the LED/Valet switch in the off (out) position.
2. Turn the ignition key to the on position.
3. Press the LED/Valet switch one time. The switch is in the in position, and the red LED light is turned on solid, indicating that the system is in the Valet mode.

IMPORTANT: Clean the window before applying the security decal.

Applying the window warning decal:

1. Apply the window warning decals to the driver side and passenger side 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.

Owner's Manual:

1. Leave the Keyless Entry Security owner's manual in the vehicle glove box.

FEATURE PROGRAM PROCEDURE:

The following features are selectable and can be changed, using the VALET/LED and the factory LOCK button located on the driver's door panel.

To select a change as you proceed through the feature list, Press the "Lock" button on the passenger's door panel **ONLY IF YOU WISH TO CHANGE THAT FEATURE**. You need not enter a selection for each feature.

Programming each feature can not exceed 15 seconds.

STEP 1

Starting with the Valet/LED switch in the "Out" position, turn the ignition key to the ON position.

STEP 2

Press the Valet/LED switch IN then OUT (3) times.

STEP 3

Turn the ignition key OFF then ON. The horn should emit (1) short & (1) long chirp followed by (1) short chirp indicating that the module is in programming mode and at option (1).

STEP 4

Use chart below to determine if a specific feaure should be turned ON or OFF. To turn options ON and OFF press the "Lock" button located on the driver's door panel. The horn will give (1) or (2) chirps and the LED will turn on or off depending on the setting chosen.

STEP 5

To advance to the next option press the Valet/LED switch IN and OUT (1) time.

STEP 6

To exit the programming procedure turn the ignition key to the OFF position. The horn will give (1) long chirp indicating that the module has exited the option programming mode.

Option	*Feature*	*1 chirp*	*2 chirps*
1	*Headlights on for 20 seconds when disarmed*	*ON***	*OFF*
2	*Headlights on for 20 seconds when armed*	*ON***	*OFF*
3	*Horn Chirp - N/A to Avalon*	*16ms***	*10ms*
4	*Passive Arm*	*Passive*	*Active***
5	*Light Flash*	*ON*	*OFF***
6	*Ignition Disarm*	*ON*	*OFF***

**** = Default setting**

VEHICLE FUNCTION CHECKLIST

THESE POINTS MUST BE CHECKED TO ENSURE A QUALITY INSTALLATION

- ☐ **Head Light**
  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)**
- ☐ **Accessory Power Socket (if equipped)**
- ☐ **Starter**
- ☐ **Audio/Video (if equipped)**
- ☐ **Power Sliding 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. 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.