

SET Part Number:
00016-32901

Accessory Code: KE1



Conflicts

Note: **Not for installation on vehicles equipped with factory keyless entry**

Additional Items Required For Installation

Item#	Quantity Req.	Description

Kit Contents

Item#	Quantity Req.	Description
1	1	Control Module
2	1	Main Harness
3	1	Hardware Bag
4	1	Valet Switch
5	2	24" Cable Ties
6	2	3 Button Transmitter
7	1	Owner's Card

Vehicle Service Parts (may be required for reassembly)

Item#	Qty	Description
00016-79200-01	1	Control Module
00016-34030-05	2	Keyless Entry Transmitter
00016-32901-01	1	Main Installation Harness
00016-30960-56	1	On/Off Toggle Control Switch
00016-32901-02	1	Hardware Bag
00016-35105-01	1	Headlight Extension Wire

Hardware Bag Contents

Item#	Quantity Req.	Description
1	8	Red T-Taps
2	2	Blue T-Taps
3	8	Black T-Taps
4	1	Yellow T-Tap
5	1	2-1/4" x 2-1/4" Foam Pad
6	6	8" Cable Ties

Recommended Tools

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

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 & 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 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

1. Familiarize yourself with the installation instructions.
2. Inspect kit components (Refer to kit contents and hardware bag contents).

VEHICLE PREPARATION

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.).

REMOVE THE DRIVER'S SIDE SCUFF PLATE:

1. Disengage the 10 claws, and carefully remove front scuff plate. (Fig. 2b)

REMOVE THE DRIVER'S SIDE KICK PANEL:

1. Refer to the vehicle repair manual, and carefully remove front kick panel. (Fig. 2c)

REMOVE THE UPPER DASH PANEL:

1. Using a nylon trim tool, disengage the 4 claws and remove the driver's side upper dash panel. (Fig. 2d)

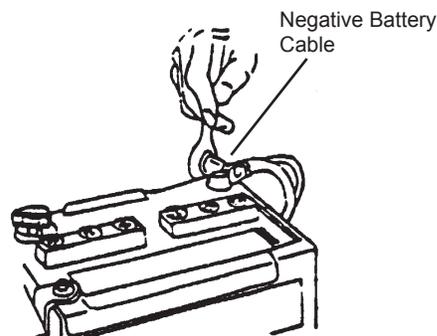


Fig. 2a

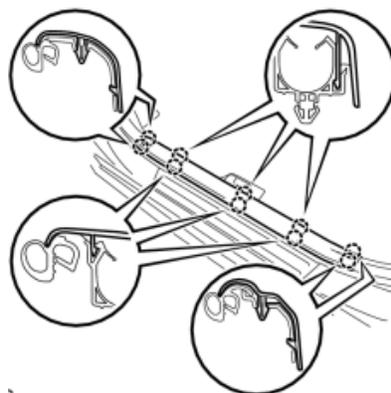


Fig. 2b



Fig. 2c

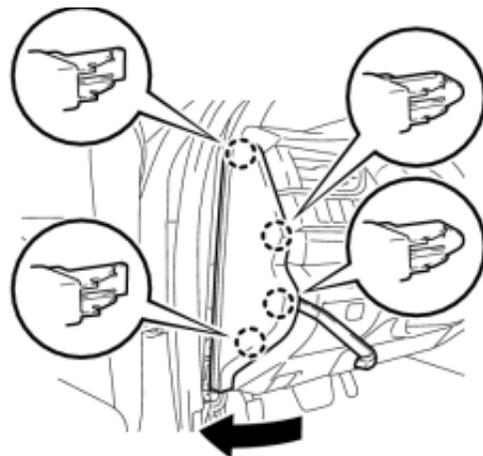


Fig. 2d

PREPARING FOR INSTALLATION

REMOVE THE LOWER FINISH PANEL:

1. Remove 1 10 mm bolt and 1 phillips screw from the driver's side lower finish panel. (Fig. 3a)
2. Disengage the hood release cable from the hood release latch handle. (Fig. 3b)
3. 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.

OPTIONAL:

Remove the driver's knee air bag assembly by removing the (4) 10mm bolts securing it to the dash brace. Then place a protective cover on the driver's floor area and wrap the air bag assembly with a cover to prevent scratching before moving it to the side. Place airbag assembly on a box so that there is no tension on the connectors. (Fig. 3c, 3d)

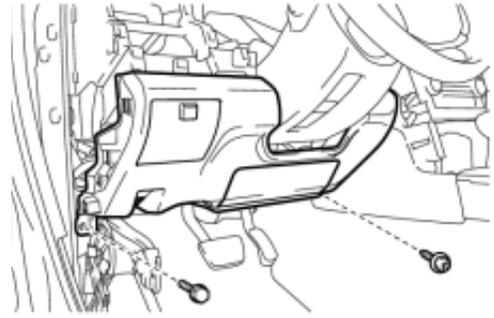


Fig. 3a

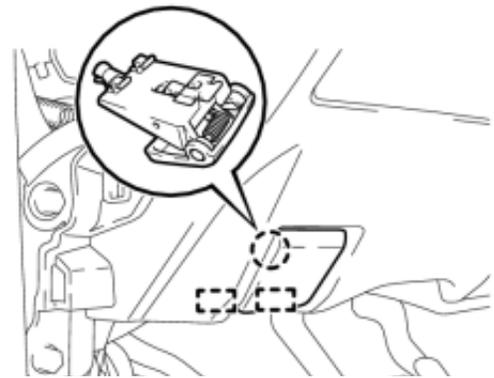


Fig. 3b

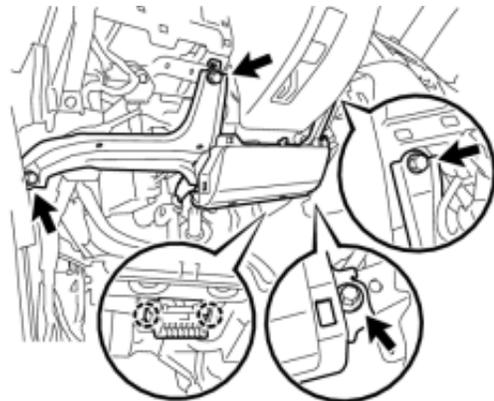


Fig. 3c



Fig. 3d

PREPARING FOR INSTALLATION

REMOVE THE LOWER STEERING COLUMN COVER

1. Remove the (2) philips screws from the lower steering column cover. These are accessible by turning the steering wheel to the 9 o'clock and 3 o'clock positions, respectively. (Fig. 4a)
2. Carefully dislodge the steering column cover claws and remove the lower cover.

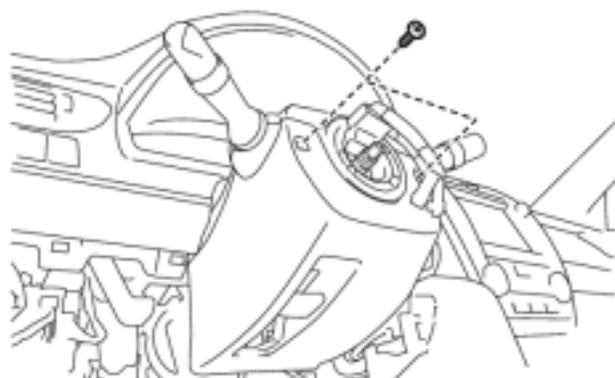


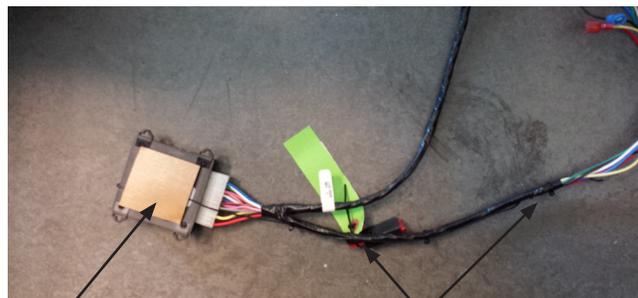
Fig. 4a

HARNESS PREPARATION

IMPORTANT: Failure to route the antenna cable as described will result in reduced range of the system.

PREPARING THE MAIN HARNESS

1. Secure the antenna wire to the back of the module, using the supplied foam mounting pad.
2. Route the antenna and secure to the main harness with (2) wire ties. (Fig. 4b)



Foam Pad

Fig. 4b

Wire Ties

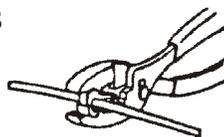
T-TAP INSTALLATION

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 - 2014 Camry Keyless Entry

WIRING DIAGRAM

RED WIRE [+12 VDC]: Use Yellow T-Tap and connect to the GREEN WIRE in connector I36, location 5.

YELLOW WIRE [Accessory]: Use Blue T-Tap and connect to the BLACK WIRE in connector I36, location 6.

BLACK WIRE - (18 GA.) GROUND: Connect to LH 10mm bolt securing driver's knee air bag.

GREEN/RED WIRE [Horn]: Use black T-Tap and connect to the LT. GREEN WIRE in connector I28, location 9.

WHITE WIRE [Tail lights]: Use black T-Tap and connect to the BLACK WIRE in connector I25, location 18.

BLUE WIRE [Headlights]: Use black T-Tap and connect to the RED WIRE in connector I25, location 17.

10 AMP

Main Control Module

PINK / WHITE WIRE [LF Door Unlock Switch]: Use black T-Tap and connect to the GREEN WIRE in connector K11, location 11.

PINK WIRE [LF Door Lock Switch]: Use black T-Tap and connect to the RED WIRE in connector K11, location 10.

PINK / WHITE WIRE [Unlock Defect]: Use black T-Tap and connect to the VIOLET WIRE in connector K11, location 16.

WHITE WIRE [Driver's Door Unlock Motor]: Towards Door Lock - See Detail A

BLUE WIRE [Driver's Door Unlock Motor]: Towards Body ECU - See Detail A

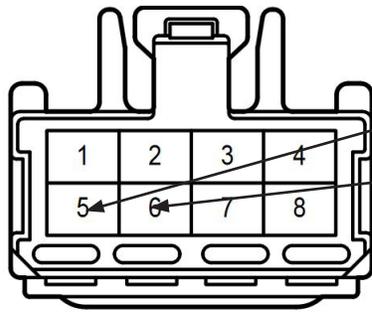
To Toggle Control Switch

<p>DETAIL "A" DRIVER'S DOOR UNLOCK CIRCUIT</p> <p>Cut the GRAY WIRE in connector K11, location 12. Strip the insulation from both sides of the cut wire, and crimp the WHITE WIRE from the keyless harness to the HARNESS side of the cut wire. Crimp the BLUE/WHITE WIRE from the keyless harness to the CONNECTOR side of the cut wire.</p>	
<p>Harness Wires BLUE w/ WHITE WHITE</p>	<p>Cut & Strip Existing Wire</p>

CONNECTOR DETAILS - 2014 Camry Keyless Entry

1. CONNECTOR I36 : Ignition Switch

Location : Steering Column



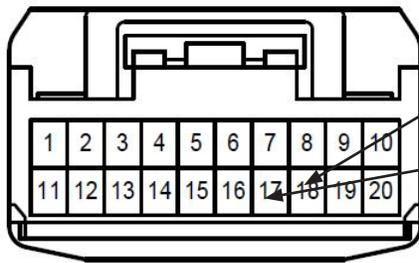
Green
Pin 5
+12V BATT

Black
Pin 6
+12V ACC

KEYLESS	CAR	PIN	T-TAP
Red	Green	5	Yellow
Yellow	Black	6	Blue

2. CONNECTOR I25 : Tail Lights / Head Lights

Location : Lower Steering Column Cover Area



Black
Pin 18
Tail Lights

Red
Pin 17
Head Lights

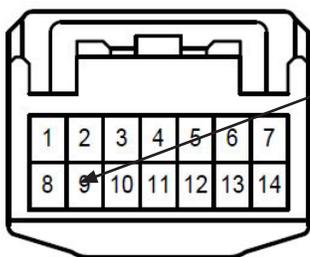
KEYLESS	CAR	PIN	T-TAP
White	Black	18	Black
Blue	Red	17	Black

3. CONNECTOR I28 : Horn

Location : Lower Steering Column Cover Area



THERE ARE 2 LT. GREEN WIRES IN CONNECTOR E8. ENSURE CONNECTION IS MADE TO THE LARGER LT. GREEN WIRE IN PIN 9, NOT THE SMALLER LT. GREEN WIRE IN PIN 13. DAMAGE TO THE MODULE **WILL OCCUR IF CONNECTED TO THE WRONG WIRE!**



Lt. Green
Pin 9
HORN

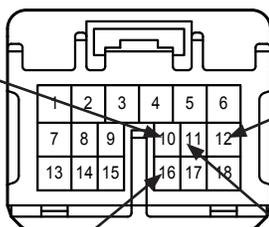
KEYLESS	CAR	PIN	T-TAP
Green/Red	Lt. Green	9	Black



4. CONNECTOR KI1 : Door Locks

Location : Driver's Kick Panel Area

Red
Pin 10
Lock Switch



Gray
Pin 12
Unlock Motor
(Cut Wire - See
Page 5, Detail A)

Violet
Pin 16
Unlock Detect

Green
Pin 11
Unlock Switch

KEYLESS	CAR	PIN	T-TAP
Pink	Red	10	Black
Pink/White	Green	11	Black
White	Gray	12	Lock Side
Blue/White	Gray	12	ECU Side
Pink/White	Violet	16	Black

INSTALLING THE KEYLESS ENTRY SYSTEM

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

Mounting the Main Control Module :

1. Connect the main wiring harness to the control module.
2. Apply provided adhesive pad to the side of the control module. Using the adhesive pad, mount the control module to the factory brace (to the left of the steering column).
3. Secure the control module to the factory brace with 2 long wire ties. (Fig. 7a)

Control Module



Fig. 7a



NOTE: Guide long wire ties through the control module mounting eyelets to ensure module stays securely in place.

Connecting the Security System Harness :

SECURING MODULE GROUND:

1. Secure the keyless entry system black ground wire to the left hand 10mm bolt securing the crash knee air bag. (Fig. 7b)
2. Set the toggle switch to the OFF position. Secure to the wire harness in the driver's kick panel with (1) wire tie.
3. Torque the 10mm ground bolt to 7ft. lbs.

Ground Location



Fig. 7b Toggle Control Switch



3. Torque the 10mm ground bolt to 7ft. lbs.



OPTIONAL:
If the crash knee air bag was removed previously, the 4 bolts must be re-installed and torqued at 7 ft. lbs. Use the torque sequence shown. (Fig. 7c)

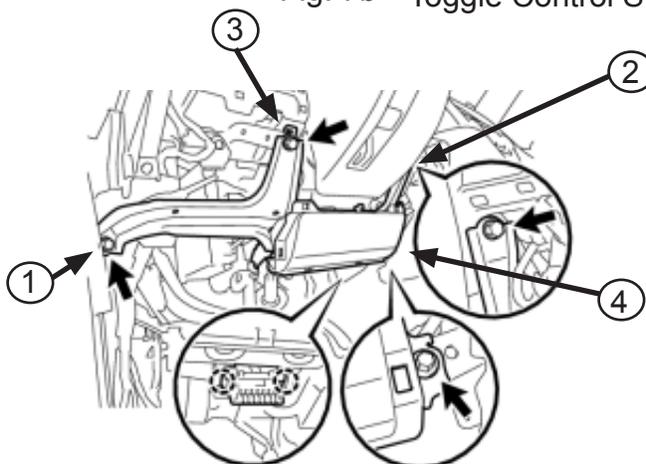


Fig. 7c

COMPLETING THE INSTALLATION: 2014 CAMRY

NOTE : Re-torque battery cable to 48in lb. once process is completed.



Verify that the SHORT PIN or DC CUT 30A FUSE is installed prior to testing.

TESTING THE SYSTEM:

1. Prior to delivering the vehicle, test all features of the system according to the owner's manual included.

LOCK - Press and release the LOCK button on the transmitter. All doors should lock, headlights should come on.

UNLOCK - Press and release the UNLOCK button on the transmitter. The driver's door should unlock, headlights should come on.

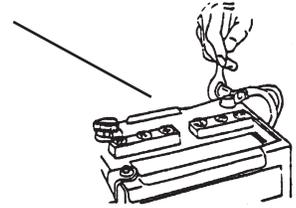
Press and release the UNLOCK button again. All doors should unlock.

Press and hold the PANIC button. The horn should sound and the parkings lights should flash.

Press and release the PANIC button to silence the horn.

NOTE: Be sure to test both transmitter that were included in the kit.

Negative Battery



ASSEMBLE ALL REMOVED PANELS TO THE VEHICLE:

1. Refer again to the vehicle repair manual and reassemble all panels that were removed for installation back onto the vehicle. **Test thoroughly, all mechanical components disconnected and or removed from the vehicle during the installation of this accessory.**

PREPARING THE VEHICLE FOR DELIVERY:

1. To set the arm/disarm chirps to "soft" chirps.
2. Start with the doors in the unlocked position, Toggle Control Switch in the "OFF" position.
3. Turn the ignition key to the on position.
4. Turn the ignition key off, then immediately switch the Toggle Control Switch "ON" then "OFF" 4 times.
5. The vehicle horn should respond with soft horn chirps.

PROGRAMMING NEW or REPLACEMENT TRANSMITTERS TO THE SECURITY MODULE:

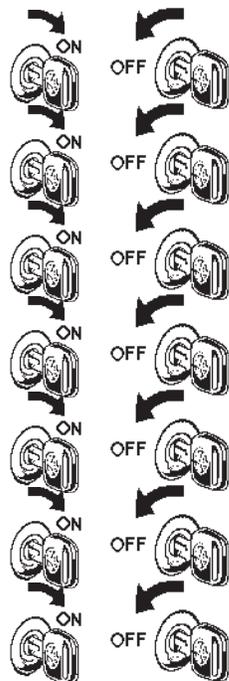
IMPORTANT NOTE : Once you enter the programming mode, if 15 seconds elapse with no activity on the system, the programming mode will be terminated. If this happens, simply start over.

STEP 1

To get started, enter the vehicle and close all doors, then lock the doors by using the door lock switch mounted on the driver's door panel.

STEP 2

Turn the vehicle's ignition key ON then OFF 7 times.....



....Ending in the OFF position.

STEP 3

Press and Hold the Lock button on the transmitter until the Driver's Door Unlocks.

STEP 4

Lock all doors by using the door lock switch mounted on the driver's door panel.

STEP 5

*Repeat Steps 3 and 4 for all transmitters that you need to program to operate the vehicle.
(Maximum of 4 transmitters per vehicle)*

STEP 6

When all transmitters have been programmed, turn the ignition key ON then OFF to exit the program mode.



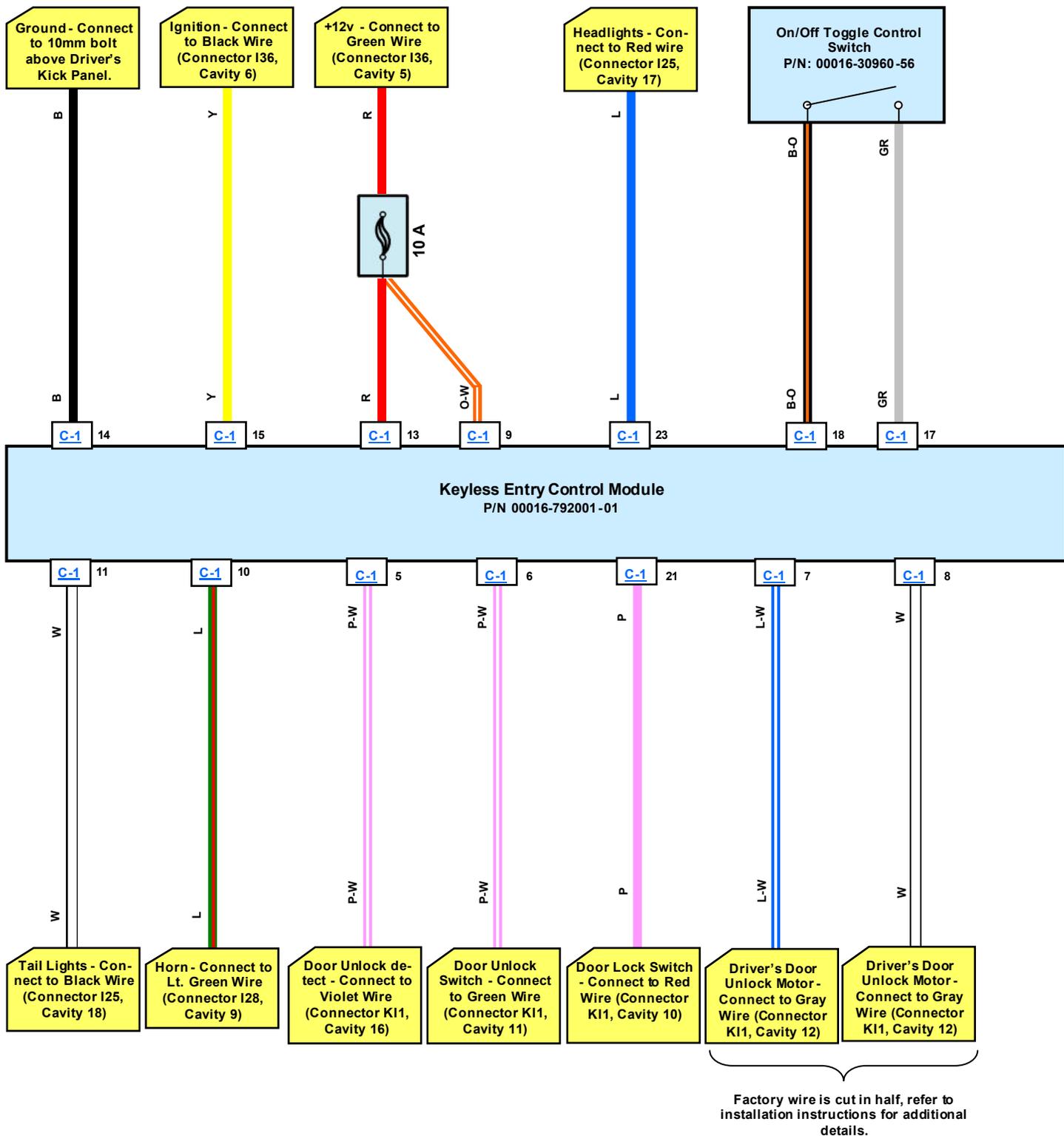
VEHICLE FUNCTION CHECKLIST

THESE POINTS MUST BE CHECKED TO ENSURE A QUALITY INSTALLATION

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

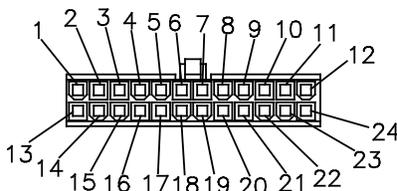
Block Diagram

Keyless Entry System: Camry 2014 :Kit P/N 00016-32901



Checking the Harness Pinouts:

**Connector C-1:
Keyless Entry Harness Connector
Connector End View**



Pin	Wire Color	Test Reference	Proper Operation
1	No Wire		
2	No Wire		
3	No Wire		
4	No Wire		
5	Pink/White	Pin 5 to Ground.	<ul style="list-style-type: none"> Approximately 0 VDC when driver's unlock switch is in the UN-LOCK position or if keyless UNLOCK function is active.
6	Pink/White	Pin 6 to Ground.	<ul style="list-style-type: none"> Approximately 0 VDC when driver's unlock switch is in the UN-LOCK position.
7	Blue/White	Pin 7 to Ground.	<ul style="list-style-type: none"> Approximately 12 VDC when driver's lock switch is in the LOCK position or if keyless LOCK function is active. Approximately 0 VDC keyless LOCK function is active.
8	White	Pin 8 to Ground	<ul style="list-style-type: none"> Approximately 12 VDC when driver's lock switch is in the LOCK position or if keyless LOCK function is active.
9	Orange/White	Pin 9 to Ground.	<ul style="list-style-type: none"> Always 12 VDC.
10	Green/Red	Pin 10 to Ground.	<ul style="list-style-type: none"> Approximately 12 VDC when Horn is pressed.
11	White	Pin 11 to Ground.	<ul style="list-style-type: none"> Approximately 0 VDC when tail lights are ON.
12	No Wire		
13	Red	Pin 13 to Ground.	<ul style="list-style-type: none"> Approximately 12 VDC.
14	Black	Pin 14 to Ground.	<ul style="list-style-type: none"> Always continuity.
15	Yellow	Pin 15 to Ground.	<ul style="list-style-type: none"> Approximately 12 VDC when the key is turned to the ON/Run position.
16	No Wire		
17	Gray	Pin 17 to Ground.	<ul style="list-style-type: none"> Always continuity.
18	Black/Orange	Pin 18 to Ground.	<ul style="list-style-type: none"> Continuity when switch is in the ON position.
19	No Wire		
20	No Wire		
21	Pink	Pin 21 to Ground.	<ul style="list-style-type: none"> Approximately 0 VDC when driver's lock switch is in the LOCK position or if keyless LOCK function is active.
22	No Wire		
23	Blue	Pin 23 to Ground.	<ul style="list-style-type: none"> Approximately 0 VDC when Head lights are ON.
24	No Wire		