

Toyota Corolla**2010 -****Keyless Entry System****Part Number: 00016-32901****Code: KE1****Conflicts**

NOTE: Not for installation on vehicle's equipped with factory installed keyless entry.

Kit Contents

Item #	Quantity Req'd	Description
1	1	Keyless 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

Hardware Bag Contents

Item #	Quantity Req'd	Description
1	8	Red T-Taps
2	2	Blue T-Taps
3	6	8" Cable Ties
4	1	2-1/4" x 2-1/4" Foam Pad
5	1	Yellow T-Tap

Recommended Tools**Safety Tools**

Special Tools

INSTALLATION TOOLS

Phillip screwdriver	Straight-Slot screwdriver
Ratchet w/extension	10 mm socket
Diagonal wire cutters	Common pliers
Flashlight	Nylon trim tool
7/16" Comb. wrench	5/16" drill bit
Torque Wrench 36in. lbs.	

Special Chemicals

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Vehicle Service Parts (may be required for reassembly)

P/N	Qty	Description
00016-79200-01	1	Keyless Entry Control Module
00016-34030-05	2	Keyless Entry Transmitter
00016-32901-01	1	Main Wiring Harness
00016-30960-56	1	On/Off Toggle Control Switch
00016-32901-02	1	Miscellaneous Hardware Kit
00016-35105-01	1	Headlight Extension Wire



STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.



OPERATORS 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.

INSTALLATION PREPARATION

Before starting installation

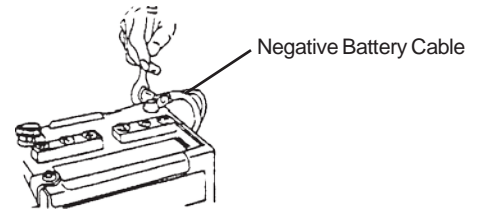
1. Familiarize yourself with the installation instructions.
2. Inspect kit components.

VEHICLE PREPARATION



Verify that the vehicle shorting pin is installed prior to installation.

1. Place protective coverings on vehicle.
2. Disconnect negative battery clamp

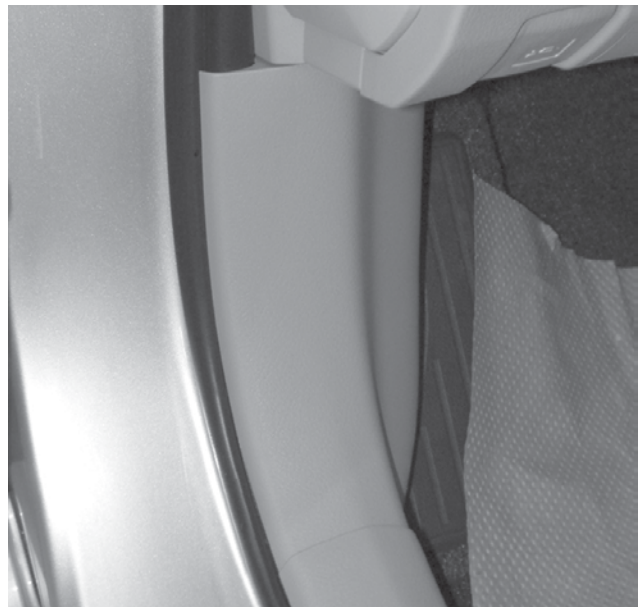


3. Remove the driver's side scuff plate. Inserting a plastic panel tool under the scuff plate and prying upward to disengage the snap clips.



Optional Step: Insert a plastic tool under the front of the scuff plate and driver's side kick panel, lift only that area.

4. Remove the driver side kick panel by inserting a plastic panel tool under the kick panel and carefully pry to disengage the snap clips.



5. Remove (3) 10 mm bolts, from the driver's lower finish panel (right side). Pull the lower finish panel outward from the vehicle dash to disengage the snap clips.



6. Pull the lower finish panel (left side) outward from the vehicle dash to disengage the snap clips.



7. Carefully separate the lower steering column cover halves by disengaging the (4) tabs and remove cover.

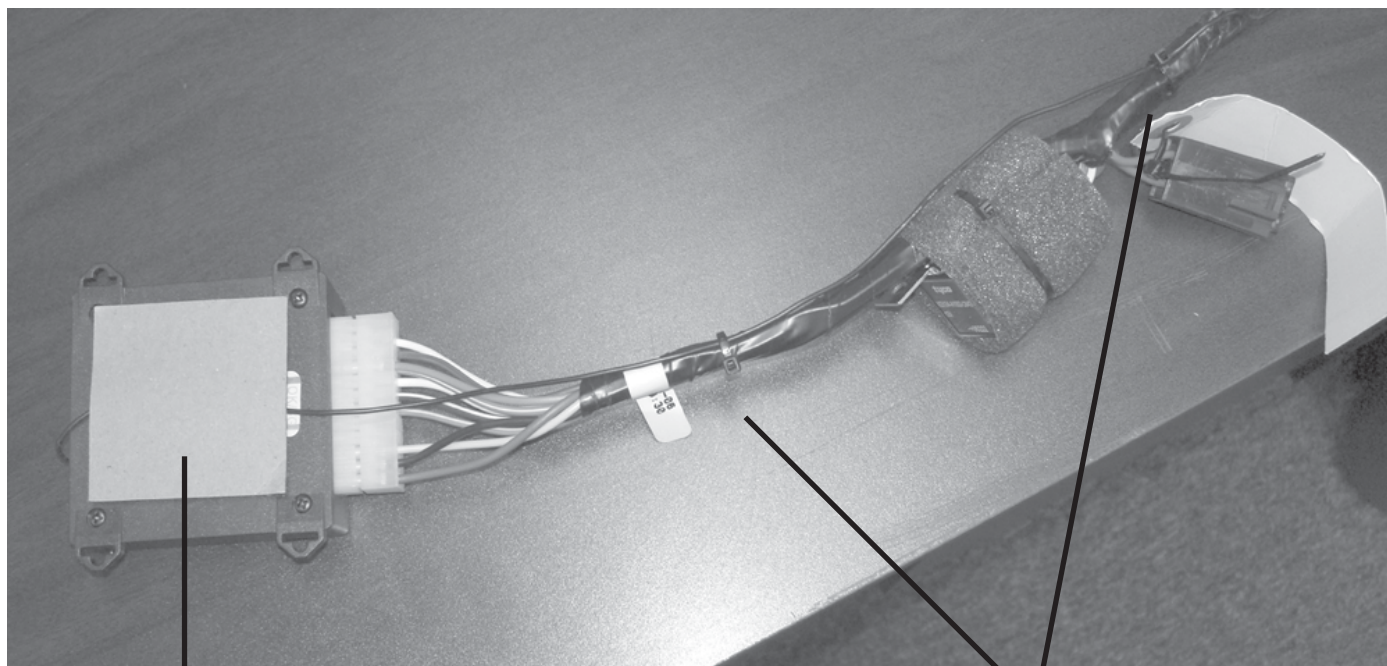


MODULE PREPARATION

1. Secure the antenna to the back side of the module, using a supplied foam pad.
2. Route the antenna and secure to the main harness with (2) cable ties.



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



Foam Pad

Cable Ties

INSTALLING PROCEDURES

MOUNTING MAIN CONTROL MODULE:

A. Secure the main module to the vehicle harness connected to the JB in the driver's side kick panel area. Secure in place with the long cable ties provided.

 **NOTE:** Guide long cable through the module eyelets as shown.

DO NOT WRAP OR BUNDLE ANTENNA HARNESS. Module antenna wire must extend as high up as possible and secured in place for best signal.


MOUNTING THE TOGGLE SWITCH:

A. Install the ON/OFF bezel and nut. Tighten nut with care, do not over torque the nut.

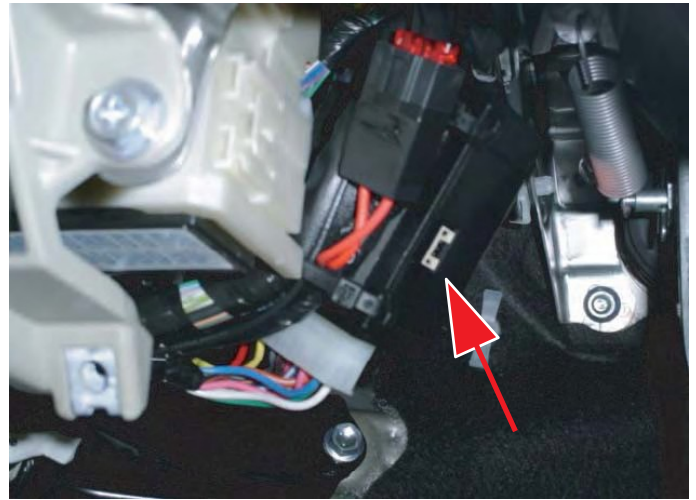
B. Tie wrap to main harness.

NOTE: Toggle switch must be in the "OFF" position.



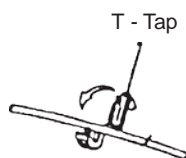
 1. Carefully follow the wiring diagram and factory connector details on pages 6-8 for TMC vehicle's and pages 9-11 for NUMMI vehicle's.

Keyless Module

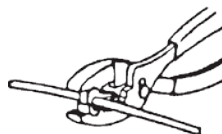


T-TAP INSTALLATION:

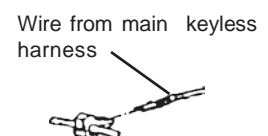
A. When installing female T - Tap connectors, be sure the wire is located inside the wire channel of the female T - Tap connector before closing connector over the wire with pliers.



Step A



Step B



Step C



IMPORTANT! After installation, inspect & insure that all Keyless System Harness are clear of all HOT, SHARP or MOVING objects

WIRING DIAGRAM

WIRING DIAGRAM COROLLA (TMC)

CHASSIS GROUND - Connect the ring terminal to the 10mm bolt at the driver's side kick panel (factory ground).

GREEN/RED WIRE [Horn]: Use red T-Tap and connect to the LT. GREEN WIRE in connector E6, location 8.

WHITE WIRE [Tail Lights]: Use red T-Tap and connect to the WHITE WIRE in connector E8, location 18.

BLUE WIRE [Headlights - **Primary Location**]: Connect BLUE extension harness to the alarm BLUE wire. Use red T-Tap and connect to the BLACK WIRE in connector E91, location 6. Refer to page 7 for additional details.

BLUE WIRE [Headlights - **Alternate Location**]: Use red T-Tap and connect to the BLACK WIRE in connector AE11, location 6. Refer to page 7 for additional details.

RED [+12VDC Battery]: Use a red T-Tap and connect to the YELLOW wire in connector E4, location 2.

YELLOW [+12VDC Accessory]: Use a red T-Tap and connect to the BLACK wire in connector E4, location 3.

Conflicts

NOTE: Not for installation on vehicle's equipped with factory installed keyless entry.

PINK [Door Lock Switch]: Use a red T-Tap and connect to the BLUE wire in connector IE2, location 16.

PINK/WHITE [Door Unlock Switch]: Use a red T-Tap and connect to the YELLOW wire in connector IE2, location 15.

PINK/WHITE [Door Unlock Detect Switch]: Use a red T-Tap and connect to the YELLOW wire in connector IE1, location 9.

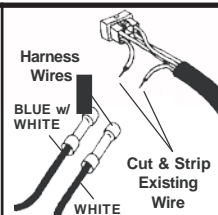
2 Pin Molex Connector - Plug into Toggle Control Switch.

WHITE [Driver Door Unlock Motor - Towards Door Lock] - (See Detail A Below)

BLUE/WHITE [Driver Door Unlock Motor - Towards Body ECU] - (See Detail A Below)

DETAIL "A" DRIVER'S DOOR UNLOCK CIRCUIT

Cut the GREEN WIRE in connector IE2, location 17. 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.

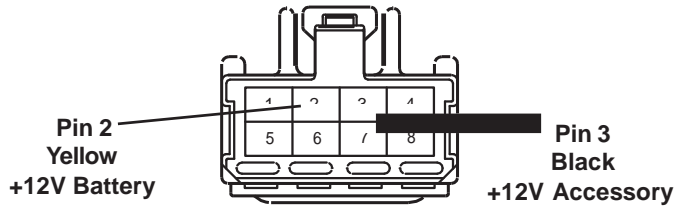


CONNECTOR DETAILS:

COROLLA (TMC)

1. CONNECTOR E4 : Ignition Switch

Location : Steering Column

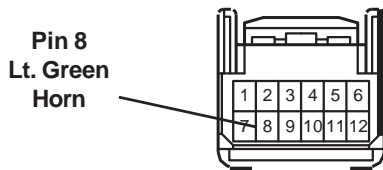


KEYLESS	CAR
Red	Yellow
Yellow	Black

2. CONNECTOR E6 : Horn

Location : Lower Steering Column Cover Area

Black Connector

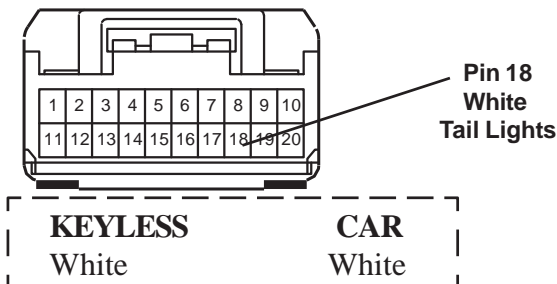


KEYLESS	CAR
Green/Red	Lt. Green

3. CONNECTOR E8 : Tailights

Location : Lower Steering Column Cover Area

White Connector



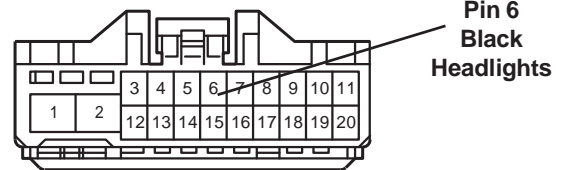
KEYLESS	CAR
White	White

4. CONNECTOR E91 : Headlights

Location : Behind glove box

White Connector

Primary Connection Location



KEYLESS	CAR
BLUE** (Extension Wire)	Black

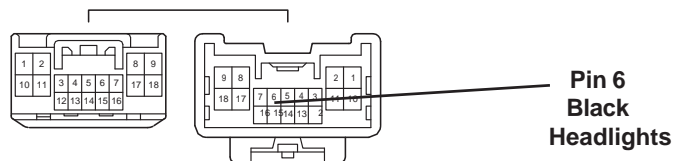
** Locate the BLUE extension wire harness in the security kit. Attach the extension wire to the alarm BLUE wire and route to the glove box, passenger side area. Attach the vehicle BLACK wire, pin 6, as pictured above.

4. CONNECTOR AE11 : Headlights

Location : High up in cowl, left of instrument panel

White Connector

Alternate Connection Location**



KEYLESS	CAR
Blue	Black

** Due to limited workspace, this connection point may not be easily accessible to all technicians.

CONNECTOR DETAILS:

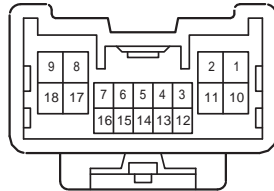
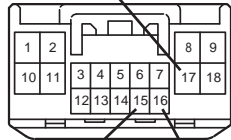
COROLLA (TMC)

5. CONNECTOR IE2 : Door Locks

Location : Driver's Kick Panel Area

White Connector

Driver's Door Lock Motor
Green Wire
Location 17**



Door Unlock Switch
Yellow Wire
Location 15

Door Lock Switch
Blue Wire
Location 16

KEYLESS

Pink
Pink/White
White
Blue/White

CAR

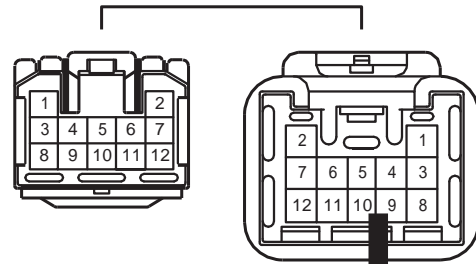
Blue
Yellow
Green (Lock Side)
Green (ECU Side)

** This vehicle wire must be cut in half,
refer to page 6 for instructions.

6. CONNECTOR IE1 : Unlock Detect

Location : Driver's Kick Panel Area

Blue Connector



Door Unlock Detect Switch
Yellow Wire
Location 9

KEYLESS

Pink/White

CAR

Yellow

WIRING DIAGRAM

WIRING DIAGRAM COROLLA (NUMMI)

CHASSIS GROUND - Connect the ring terminal to the 10mm bolt at the driver's side kick panel (factory ground).

GREEN/RED WIRE [Horn]: Use red T-Tap and connect to the LT. GREEN WIRE in connector E6, location 8.

WHITE WIRE [Tail Lights]: Use red T-Tap and connect to the BROWN WIRE in connector E8, location 18.

BLUE WIRE [Headlights - Primary Location]: Connect BLUE extension harness to the alarm BLUE wire. Use red T-Tap and connect to the BLACK WIRE in connector E91, location 6. Refer to page 10 for additional details.

BLUE WIRE [Headlights - Alternate Location]: Use red T-Tap and connect to the BLACK WIRE in connector AE11, location 6. Refer to page 10 for additional details.

RED [+12VDC Battery]: Use a red T-Tap and connect to the RED wire in connector E4, location 2.

YELLOW [+12VDC Accessory]: Use a red T-Tap and connect to the GRAY wire in connector E4, location 3.

Conflicts

NOTE: Not for installation on vehicle's equipped with factory installed keyless entry.

PINK [Door Lock Switch]: Use a red T-Tap and connect to the VIOLET wire in connector IE2, location 16.

PINK/WHITE [Door Unlock Switch]: Use a red T-Tap and connect to the BEIGE wire in connector IE2, location 15.

PINK/WHITE [Door Unlock Detect Switch]: Use a red T-Tap and connect to the YELLOW wire in connector IE1, location 9.

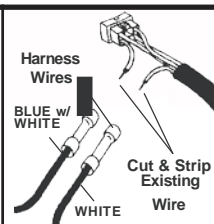
2 Pin Molex Connector - Plug into Toggle Control Switch.

WHITE [Driver Door Unlock Motor - Towards Door Lock] - (See Detail A Below)

BLUE/WHITE [Driver Door Unlock Motor - Towards Body ECU] - (See Detail A Below)

DETAIL "A" DRIVER'S DOOR UNLOCK CIRCUIT

Cut the GREEN WIRE in connector IE2, location 17. 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.

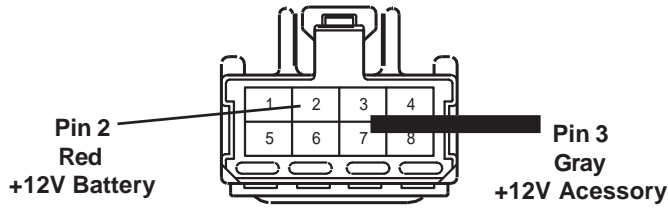


CONNECTOR DETAILS:

COROLLA (NUMMI)

1. CONNECTOR E4 : Ignition Switch

Location : Steering Column

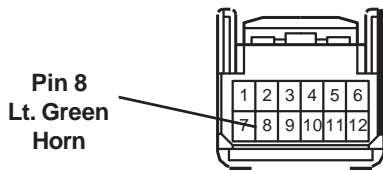


KEYLESS	CAR
Red	Red
Yellow	Gray

2. CONNECTOR E6 : Horn

Location : Lower Steering Column Cover Area

Black Connector

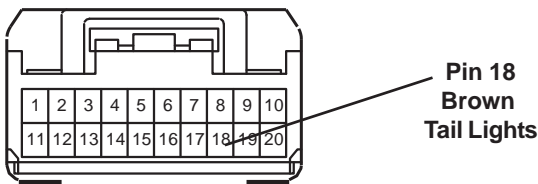


KEYLESS	CAR
Green/Red	Lt. Green

3. CONNECTOR E8 : Tailights

Location : Lower Steering Column Cover Area

White Connector



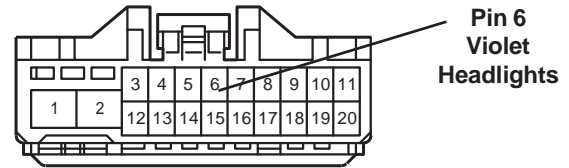
KEYLESS	CAR
White	Brown

4. CONNECTOR E91 : Headlights

Location : Behind glove box

White Connector

Primary Connection Location



KEYLESS	CAR
Blue** (Extension Wire)	Violet

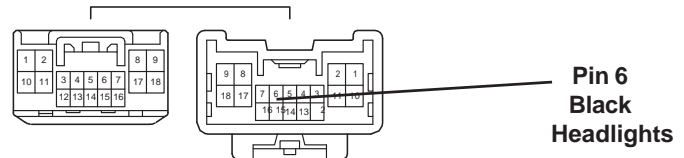
** Locate the BLUE extension wire harness in the security kit. Attach the extension wire to the alarm BLUE wire and route to the glove box, passenger side area. Attach the vehicle VIOLET wire, pin 6, as pictured above.

4. CONNECTOR AE11 : Headlights

Location : High up in cowl, left of instrument panel

White Connector

Alternate Connection Location**



KEYLESS	CAR
Blue	Black

** Due to limited workspace, this connection point may not be easily accessible to all technicians.

CONNECTOR DETAILS:

COROLLA (TMC)

5. CONNECTOR IE2 : Door Locks

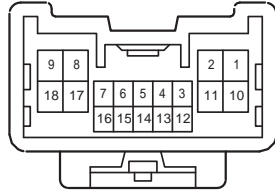
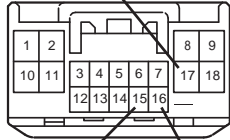
Location : Driver's Kick Panel Area

White Connector

Driver's Door Lock Motor

Green Wire

Location 17**



Door Lock Switch

Violet Wire

Location 16

Door Unlock Switch

Beige Wire

Location 15

KEYLESS

Pink

Pink/White

White

Blue/White

CAR

Violet

Beige

Green (Lock Side)

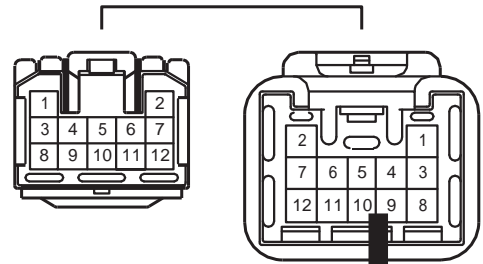
Green (ECU Side)

** This vehicle wire must be cut in half,
refer to page 9 for instructions.

6. CONNECTOR IE1 : Unlock Detect

Location : Driver's Kick Panel Area

Blue Connector



Door Unlock Detect Switch

Yellow Wire

Location 9

KEYLESS

Pink/White

CAR

Yellow

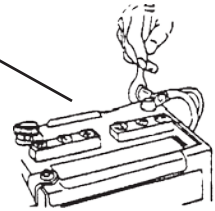
COMPLETING THE INSTALLATION: COROLLA

NOTE : Re-torque battery cable to 36in lb. once process is completed.



Verify that the vehicle shorting pin is installed prior to testing.

Negative Battery Cable



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 parking 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.

Place owner's card in glovebox.

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.

VEHICLE FUNCTION CHECK

AFTER ALL PANELS, COVERS, AND COMPONENTS HAVE BEEN REINSTALLED, THOROUGHLY TEST THOROUGHLY, ALL MECHANICAL AND ELECTRICAL COMPONENTS DISCONNECTED AND OR REMOVED FROM THE VEHICLE DURING THE INSTALLATION OF THIS ACCESSORY.

COMPLETING THE INSTALLATION: COROLLA

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

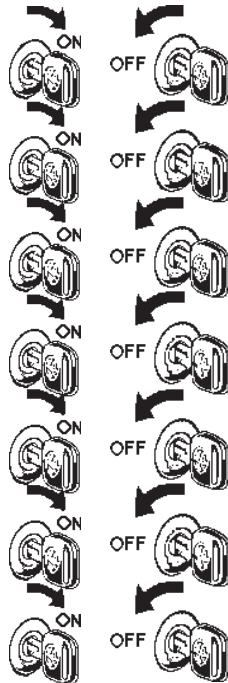
To get started, enter the vehicle and close all doors, then lock the doors by using the door lock switch mounted on the driver's door panel.

STEP 3

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

STEP 2

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



....Ending in the OFF position.

STEP 4

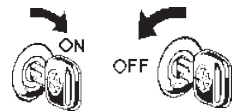
Lock all doors by using the door lock switch mounted on the driver's door panel.

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) | |