

Toyota Corolla

2009 -

Keyless Security Alarm

Part Number: 00016-12935

AccessoryCode: QK1



Kit Contents

Item #	Quantity Req'd	Description
1	1	Security Module
2	1	Shock Sensor
3	1	LED Valet Switch
4	1	HP Switch Ext.
5	2	Window Decals
6	1	Shock Sensor Ext. Wire 12"
7	1	Main Harness
8	1	Hardware Bag
9	1	Owner's Manual
10	2	25" Cable Ties
11	2	Transmitters
12	1	Headlight Extension Wire

Hardware Bag Contents

Item #	Quantity Req'd	Description
1	9	Red T-Taps
2	1	HP Switch - (Blade Style)
3	1	2-1/4" x 2-1/4" Foam Pad
4	8	8" Cable Ties
5	1	4 Pin Molex Connector
6	3	Blue T-Taps
7	1	Hex Nut
8	1	Flat Washer (Black)

Additional Items Required For Installation

Item #	Quantity Req'd	Description

Conflicts

Note: **NOT FOR INSTALLATION ON VEHICLES WITH FACTORY THEFT DETERRENT SYSTEMS.**

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 and drill motor
Torque Wrench 36in. lbs.	
Special Chemicals	

Vehicle Service Parts (may be required for reassembly)

P/N	Qty	Description
00016-79200-01	1	Control Module
00016-30960-02	1	Shock Sensor Module
00016-12930-01	1	Main Installation Harness
00016-60901-02	1	Hardware Bag
00016-30960-03	2	Window Warning Decal
00016-30960-04	1	Owner's Card
00016-60901-04	1	Pin Switch
00016-30960-29	1	Shock Sensor Harness
00016-30960-05	1	LED
00016-12930-01	2	Transmitters
00016-12930-03	1	Headlight Extension Wire

Legend

General Applicability

Vehicle's without 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.

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 PREPARATION

Before starting installation

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

VEHICLE PREPARATION



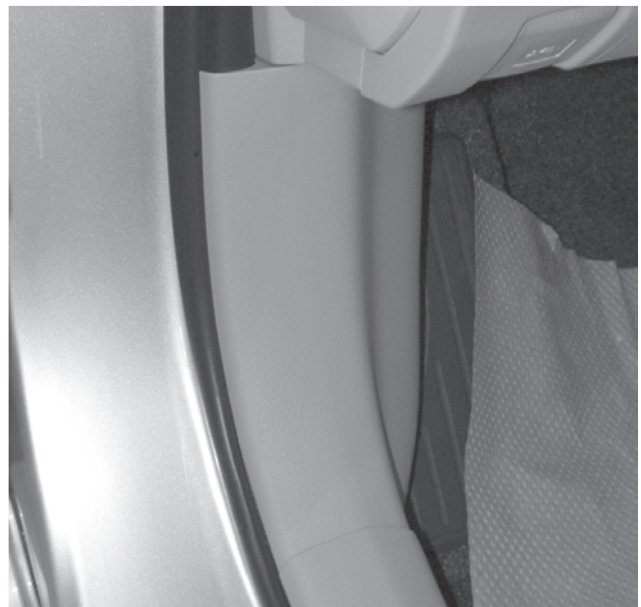
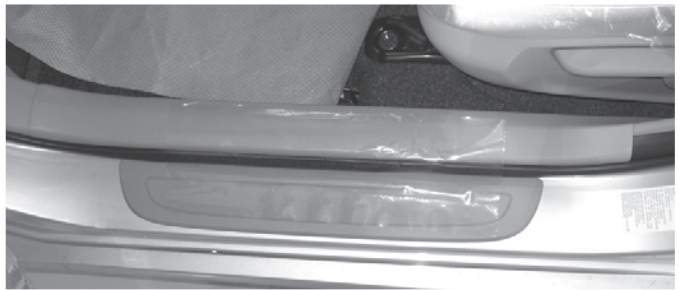
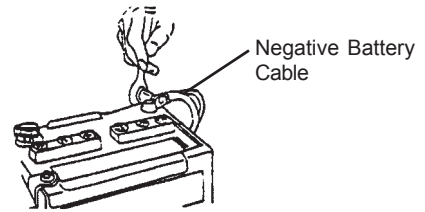
Verify that the vehicle shorting pin is installed prior to installation.

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 stuff plate and driver 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.



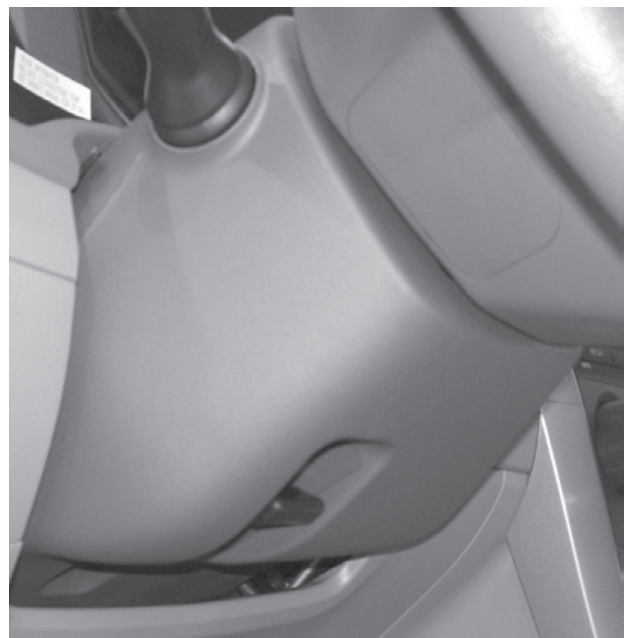
5. Remove (2), screws from the driver's lower finish panel (right side). Pull the lower finish panel outward from the vehicle dash to disengage the snap clips.



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.

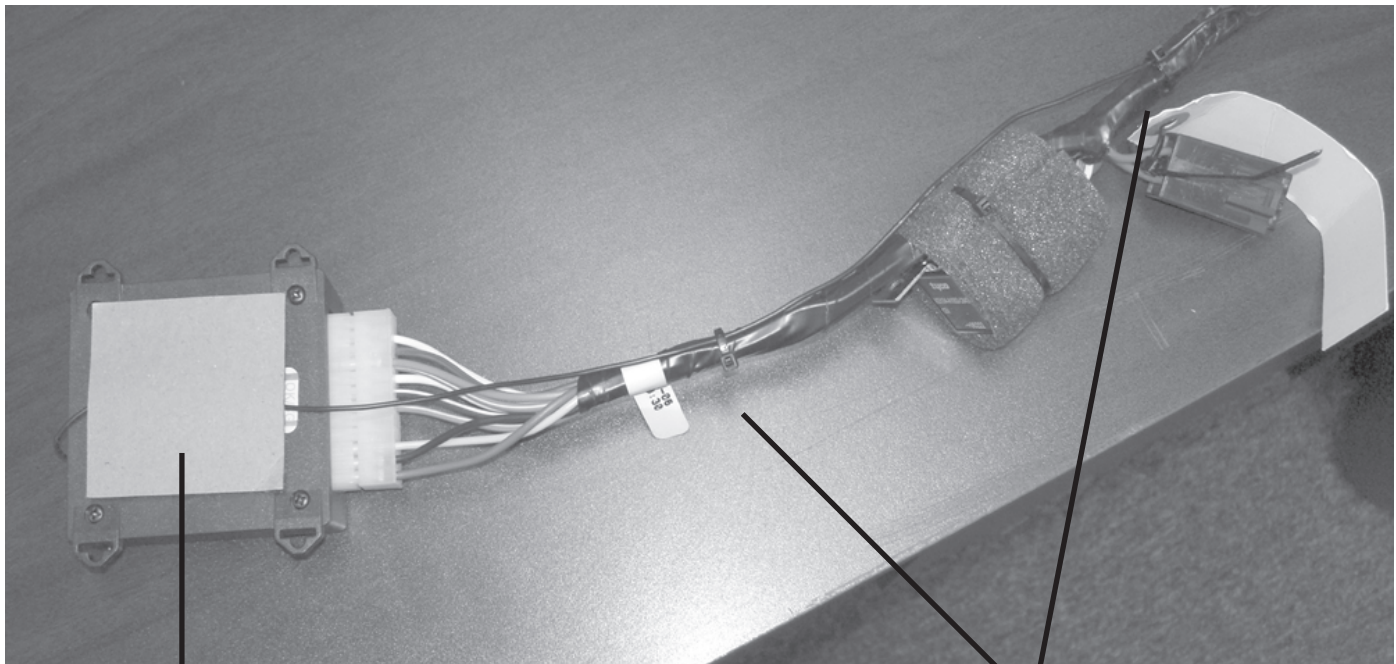


MODULE PREPARATION

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 THE LED/VALET SWITCH:**

1. Carefully drill a 5/16" diameter hole in the center knock out of the left side lower dash finish panel.
2. 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.



IMPORTANT! If trim bezel is supplied, remove the center knock out and install the provided new trim bezel.



INSTALLING PROCEDURES

PREPARING THE LED/VALET SWITCH:

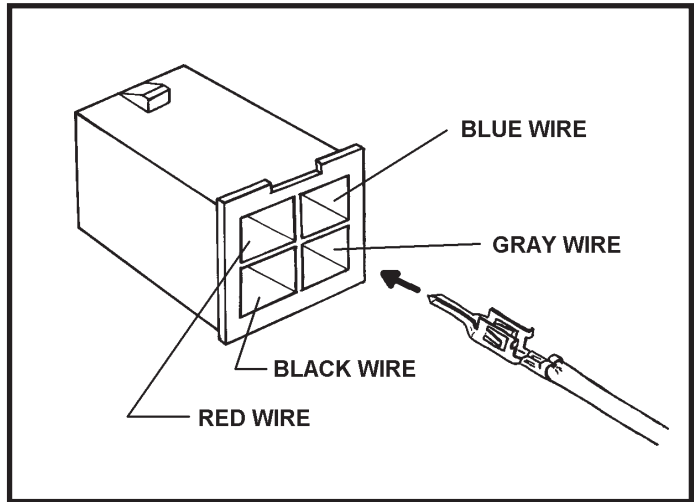
1. Locate the 4 pin Molex connector found in the hardware bag included in the kit.



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.



MOUNTING SHOCK SENSOR MODULE:

A. Use (2) of the short black cable ties provided in the hardware bag, and secure the shock sensor to the main vehicle harness as shown in the photo. Adjust the sensitivity to position 2 for testing.



IMPORTANT NOTE ! Be sure to pass the cable ties through the holes in the upper and lower mounting tabs of the shock sensor, then around and securing to the main harness. Failure to do this could cause the shock sensor to become loose.



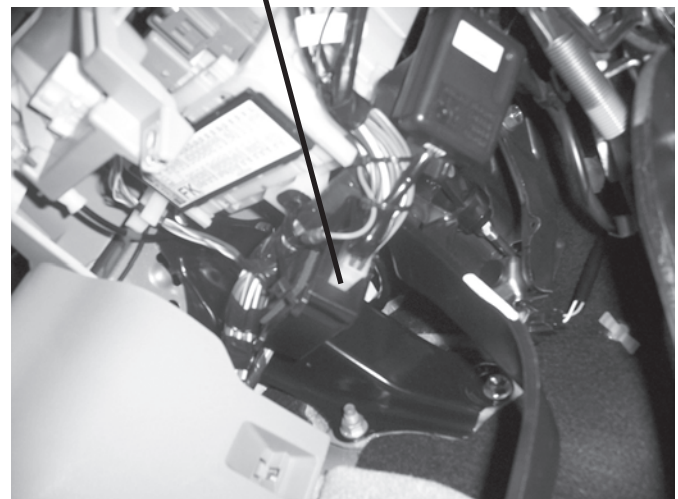
Main Module

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.



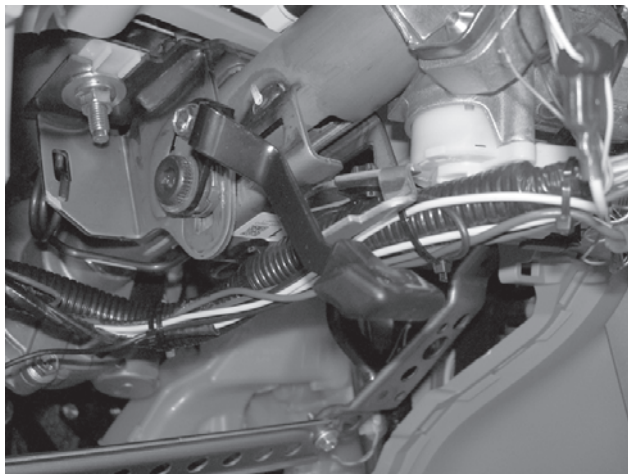
INSTALLING PROCEDURES

ROUTING THE MAIN HARNESS:

1. Route the ignition switch connectors on the main harness under the steering column.

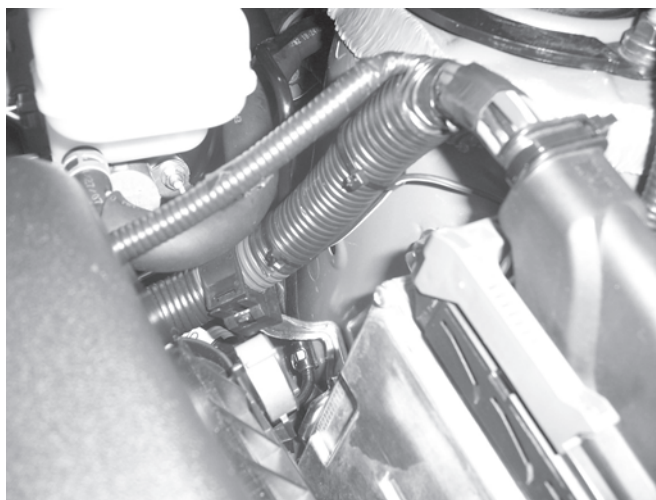
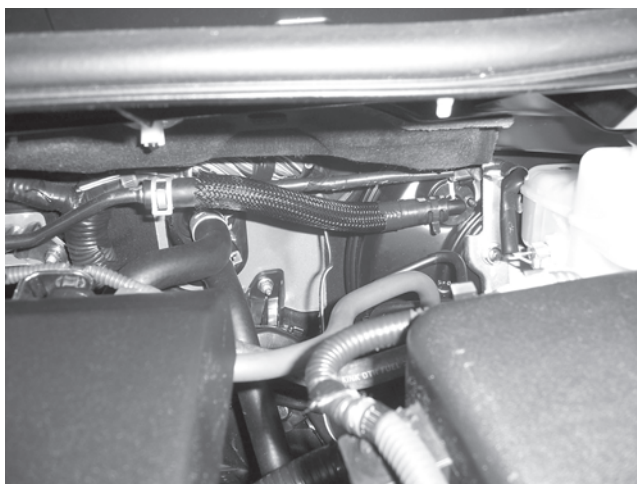


2. Secure the main harness along its routing with the cable ties provided. Be sure that the harness is clear of all **sharp, hot, moving** objects.



MOUNTING THE HOOD PIN SWITCH:

1. Route pin switch wire through the bulkhead grommet nipple from "inside" of the vehicle. Apply a good sealant to seal grommet against water entry.

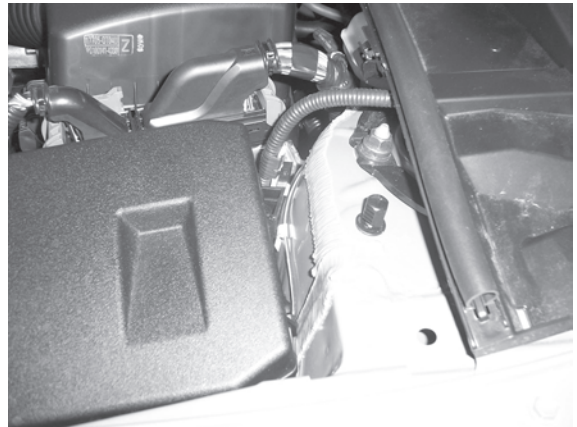


INSTALLING PROCEDURES

2. Install the "black" flat washer on the pin switch and guide through the opening on upper radiator support.

3. Install "star washer" nut on pin switch wire and connect pin switch wire to pin switch as shown.

4. Thread "starwasher" nut on pin switch and tighten.



Hood Switch Location



INSTALLING THE SHOCK SENSOR HARNESS:

1. Plug the 5 pin end of the harness into the mating connector on the main control module.
2. Route the harness towards the shock sensor, where it will not interfere with any sharp or moving objects.
3. Secure the harness along the routing path using the cable ties provided.

CONNECTING THE SECURITY SYSTEM HARNESS:

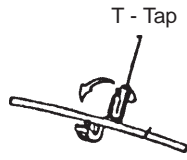


1. Carefully follow the wiring diagram and factory connector details on pages 9-11 for TMC made vehicle's or pages 12-14 for NUMMI made vehicle's.

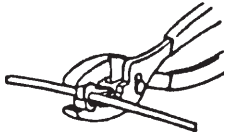


T-TAP INSTALLATION:

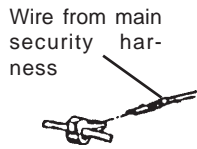
A. When installing female T - Tap connectors, be sure the wire is located inside the wire channel of the female T - Tap connector before closing connector over the wire with pliers (Figure D).



Step A



Step B



Step C



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

WIRING DIAGRAM COROLLA (TMC)

WIRING DIAGRAM

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.

Disconnect the Ignition Switch Connector A1 and plug in the security main harness into the ignition switch connectors.

[Hood Pin Switch] - Locate the BLACK / WHITE hood pin switch extension wire included in the kit. Plug one end of the extension wire into the DARK GREEN WIRE on the alarm harness, route the extension wire through the bulkhead grommet on the driver's side of the vehicle, and plug the other end of the extension onto the hood pin switch.

4 Pin Molex Connector - Plug into the L.E.D. / Valet 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)

PINK [Door Lock Switch]: Use a red T-Tap and connect to the LT. 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.

[Chassis Ground]: Connect the ring terminal to the 10 mm bolt to the left of the steering column, behind the finish panel.

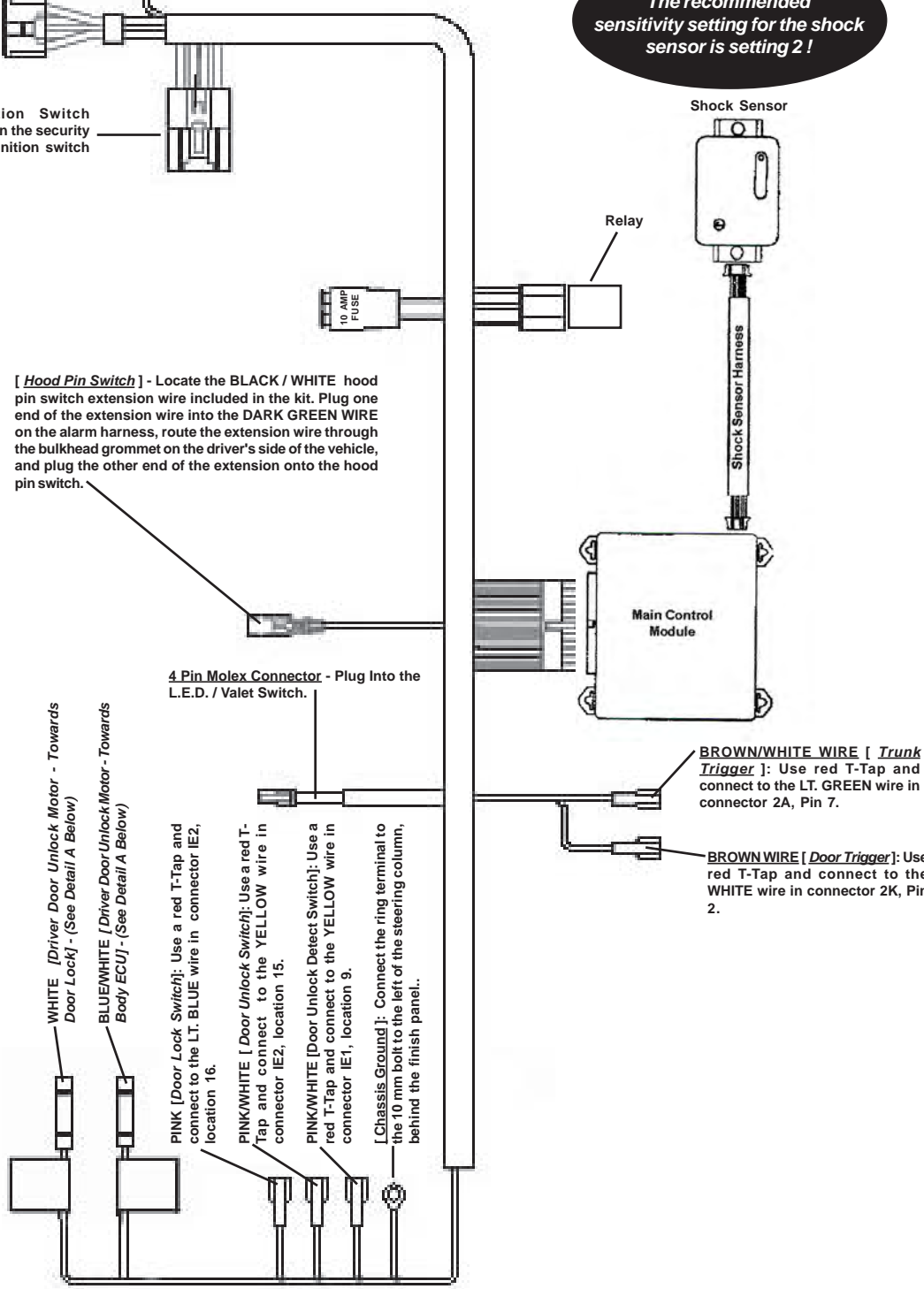
GREEN / ORANGE WIRE [Horn]: Use red T-Tap and connect to the LT. GREEN WIRE in connector E6, location 8.

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

BLUE WIRE [Headlights - Manual Transmission Vehicle]: 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 11 for additional details.

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

IMPORTANT!
The recommended sensitivity setting for the shock sensor is setting 2!



Shock Sensor

Relay

10 AMP FUSE

Main Control Module

BROWN/WHITE WIRE [Trunk Trigger]: Use red T-Tap and connect to the LT. GREEN wire in connector 2A, Pin 7.

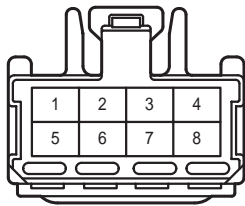
BROWN WIRE [Door Trigger]: Use red T-Tap and connect to the WHITE wire in connector 2K, Pin 2.

CONNECTOR DETAILS:

COROLLA (TMC)

1. CONNECTOR E4 : Ignition Switch

Location : Steering Column

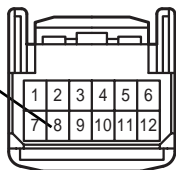


Disconnect the Ignition Switch Connector and plug in the security main harness into the ignition switch connectors.

2. CONNECTOR E6 : Horn

Location : Lower Steering Column Cover Area

Pin 8
Lt. Green
Horn



TMC Made Vehicle

ALARM

CAR

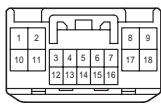
Green/Orange

Lt. Green

3. CONNECTOR AE11 : Headlights

Location : High up in cowl, left of instrument panel

Automatic Transmission Vehicle's



Pin 6
Black
Headlights

TMC Made Vehicle

ALARM

CAR

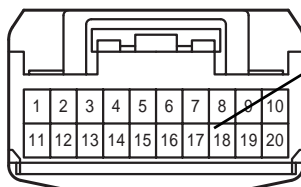
Blue

Black

For manual transmission vehicle's, refer to Step 6, next page.

4. CONNECTOR E8 : Tailights

Location : Lower Steering Column Cover Area



Pin 18
White
Tail Lights

TMC Made Vehicle

ALARM

CAR

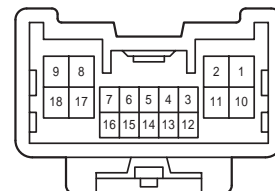
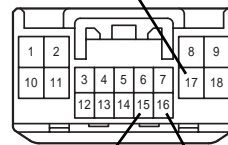
White

White

5. CONNECTOR IE2 : Door Locks

Location : Driver's Kick Panel Area

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



Door Lock Switch
Lt. Blue Wire
Location 16

Door Unlock Switch
Yellow Wire
Location 15

KEYLESS

CAR

Pink

Lt. Blue

Pink/White

Yellow

White

Green (Lock Side)

Blue/White

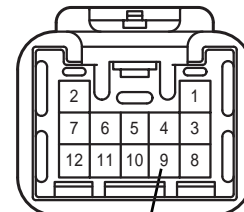
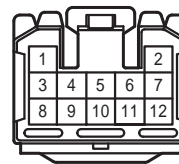
Green (ECU Side)

** 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

CAR

Pink/White

Yellow

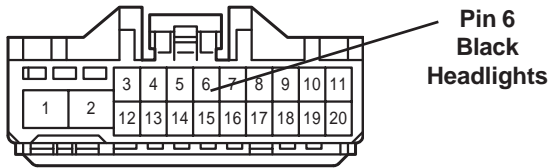
CONNECTOR DETAILS:

COROLLA (TMC)

6. CONNECTOR E91 : Headlights (MT)

Location : Behind glove box

Manual Transmission Vehicle's

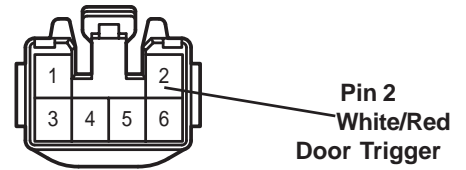


Nummi Made Vehicle	
ALARM	CAR
Blue**	Black
(Extension Wire)	

** 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.

7. CONNECTOR 2K : Door Trigger

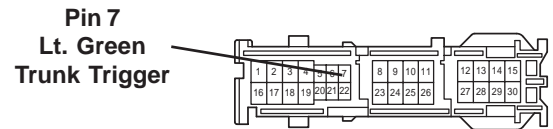
Location : Left Side of Driver's JB



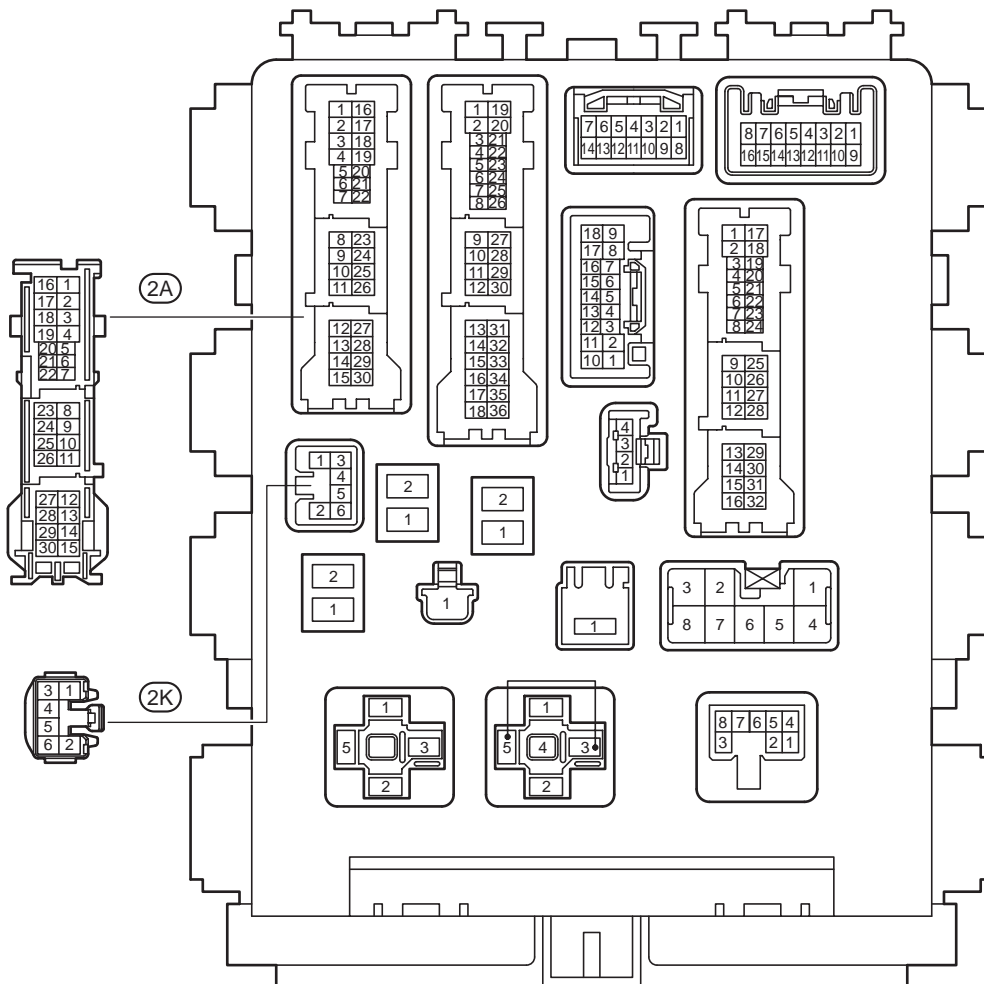
TMC Made Vehicle	
ALARM	CAR
Brown	White

8. CONNECTOR 2A : Trunk Trigger

Location : Left Side of Driver's JB



TMC Made Vehicle	
ALARM	CAR
Brown/White	Lt. Green

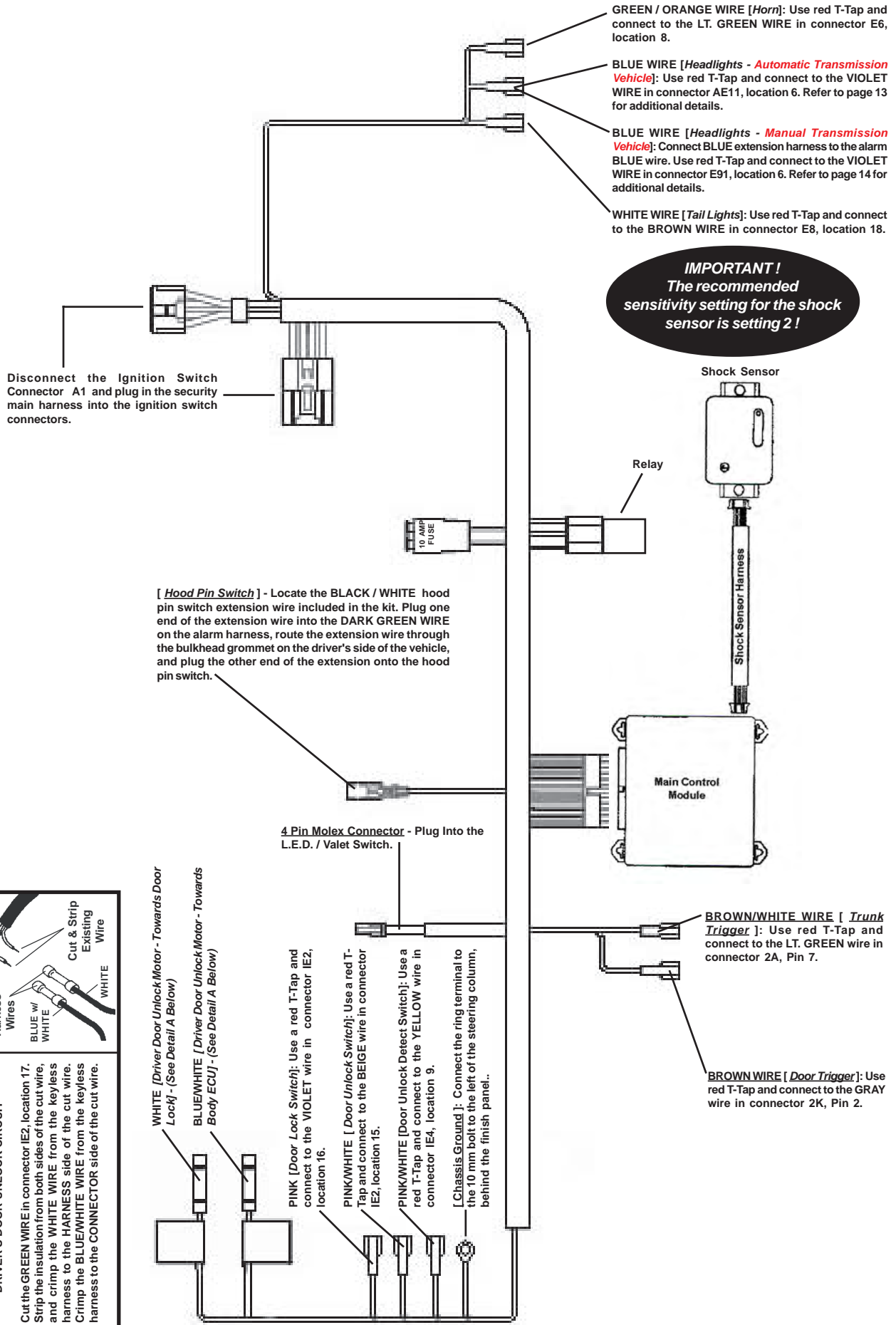


WIRING DIAGRAM COROLLA (NUMMI)

WIRING DIAGRAM

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.

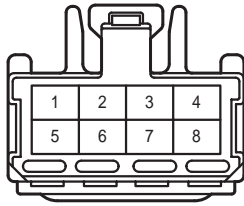


CONNECTOR DETAILS:

COROLLA (NUMMI)

1. CONNECTOR E4 : Ignition Switch

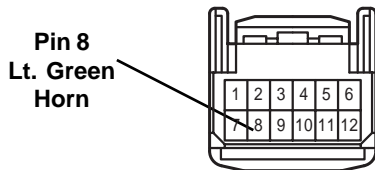
Location : Steering Column



Disconnect the Ignition Switch Connector and plug in the security main harness into the ignition switch connectors.

2. CONNECTOR E6 : Horn

Location : Lower Steering Column Cover Area



Nummi Made Vehicle

ALARM

Green/Orange

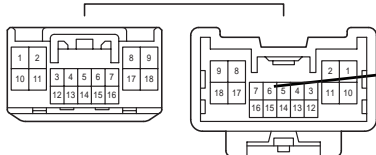
CAR

Lt. Green

3. CONNECTOR AE11 : Headlights (AT)

Location : High up in cowl, left of instrument panel

Automatic Transmission Vehicle's



Pin 6
Violet
Headlights

Nummi Made Vehicle

ALARM

Blue

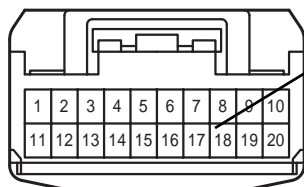
CAR

Violet

For manual transmission vehicle's, refer to Step 6, next page.

4. CONNECTOR E8 : Tailights

Location : Lower Steering Column Cover Area



Pin 18
Brown
Tail Lights

Nummi Made Vehicle

ALARM

White

CAR

Brown

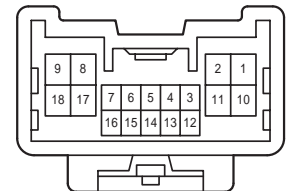
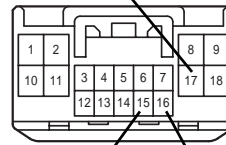
5. CONNECTOR IE2 : Door Locks

Location : Driver's Kick Panel Area

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)

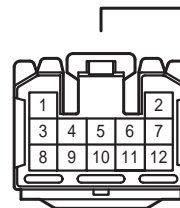
Green (ECU Side)

** This vehicle wire must be cut in half, refer to page 12 for instructions.

6. CONNECTOR IE4 : Unlock Detect

Location : Driver's Kick Panel Area

White Connector



Door Unlock Detect Switch

Yellow Wire

Location 9

KEYLESS

Pink/White

CAR

Yellow

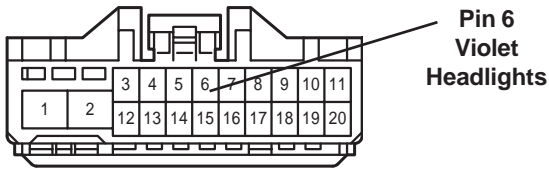
CONNECTOR DETAILS:

COROLLA (NUMMI)

6. CONNECTOR E91 : Headlights (MT)

Location : Behind glove box

Manual Transmission Vehicle's

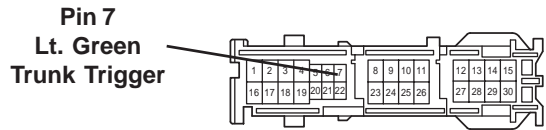


Nummi Made Vehicle	
ALARM	CAR
Blue**	Violet
(Extension Wire)	

** 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.

7. CONNECTOR 2A : Trunk Trigger

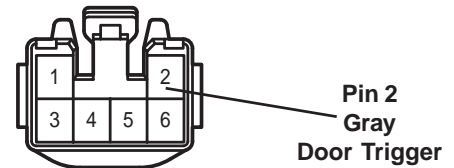
Location : Left Side of Driver's JB



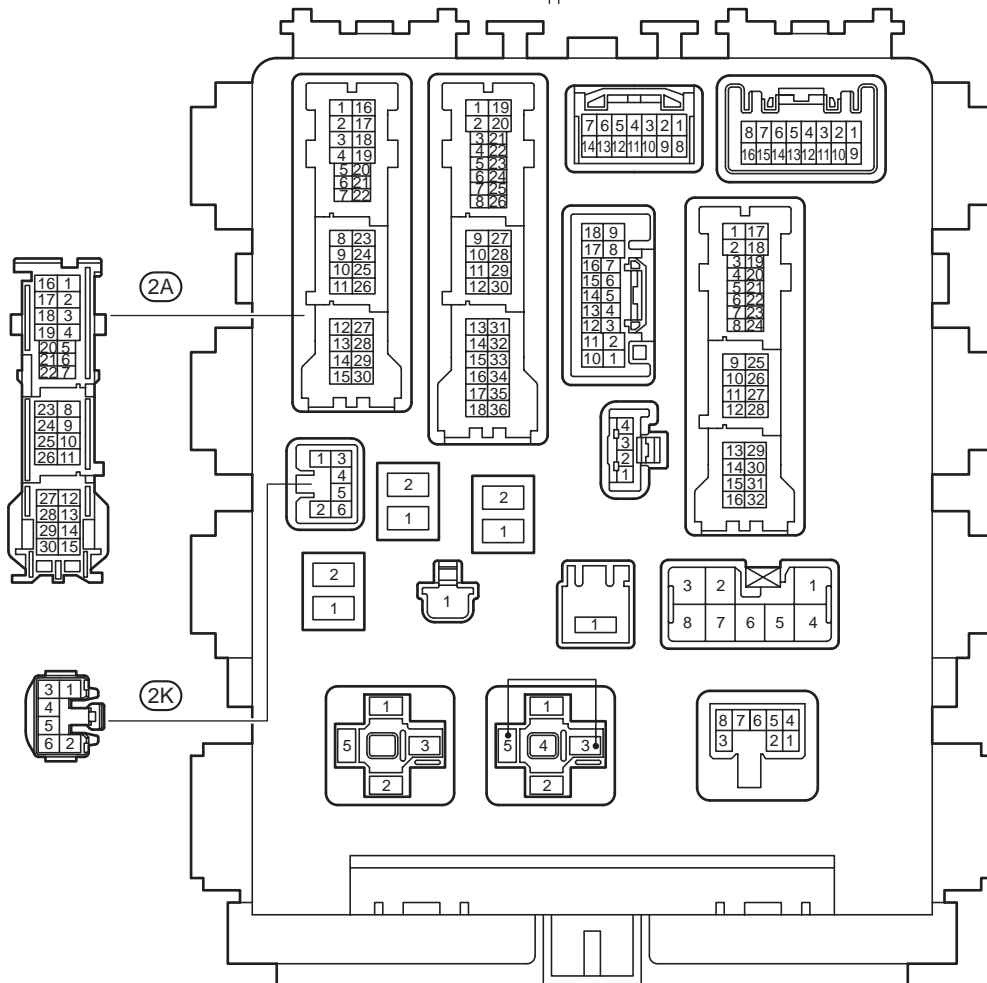
Nummi Made Vehicle	
ALARM	CAR
Brown/White	Lt. Green

8. CONNECTOR 2K : Door Trigger

Location : Left Side of Driver's JB



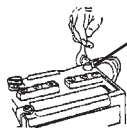
Nummi Made Vehicle	
ALARM	CAR
Brown	Gray



TESTING ALARM SYSTEM:

A. RECONNECT THE BATTERY:

Connect Negative cable to vehicle battery and torque to 36in. lbs.



Negative Battery Cable

- B. Test **BOTH** remote transmitters, one at a time. Press and release the "LOCK" button. If the LED light on the transmitters fails to glow, you need to check the transmitter battery.

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 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.

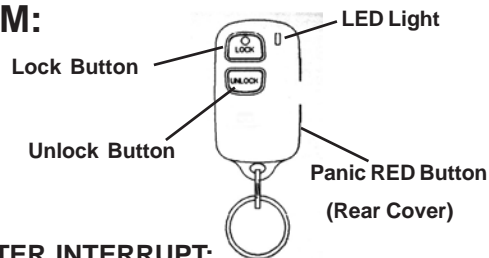
D. ARMING/DISARMING & PANIC:

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 hood or 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.
5. Press and hold the "RED" button to test the "Panic" function. The alarm should blow the horn in short, continuous blast, parking lights should be flashing.

E. SHOCK SENSOR:

1. Press the "LOCK" button to arm the system. With the open palm **lightly** slap the "A" pillar by the driver's windshield. 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 vehicle at the "A" pillar 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. STARTER INTERRUPT:

1. Set in the driver's seat with all the doors closed. Press the "LOCK" button to arm the system. Insert the ignition key and turn to the start position. The starter should not crank the engine. Press the "UNLOCK" button to disarm the system. Turn to the start position. The starter should crank the engine. Exit vehicle.

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.

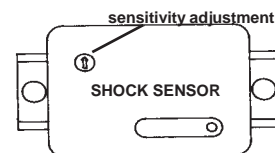
I. INTRUSION TEST:

1. Rearm the security system by pressing the "LOCK" button. Open any door or hatch. 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, 2, or 3 flashes. Compare your observations to the following.

- (1) Flash = Shock
- (2) Flashes = Hood
- (3) Flashes = Vehicle Doors

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

END



COMPLETING THE INSTALLATION

ASSEMBLE ALL REMOVED PANELS:

1. Refer again to the vehicle repair manual and re-assemble all panels that were removed. **Test thoroughly, 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, then 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.)

Owners Manual:

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

WINDOW



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

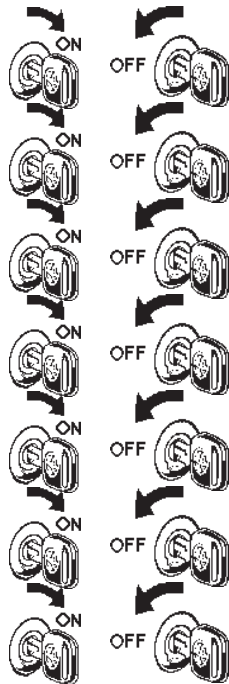
To get started, enter the vehicle and close all doors, then lock the doors by using the door lock switch mounted on the driver's door panel.

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

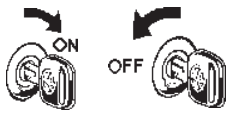
Lock all doors by using the door lock switch mounted on the driver's door panel.

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 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.