

Toyota

Corolla

2009 -

Keyless Entry System

Part Number: 00016-32901

Accessory Code: KE1

**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 Transmitters

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

Conflicts

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

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
Torque Wrench 36in. lbs.	
Special Chemicals	

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

Legend

* Mandatory



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.

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

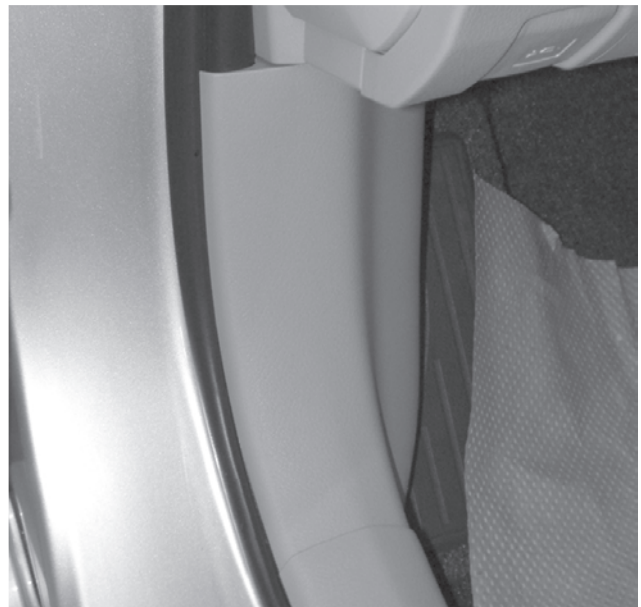
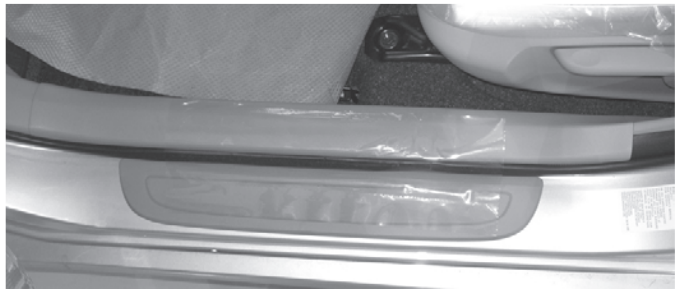
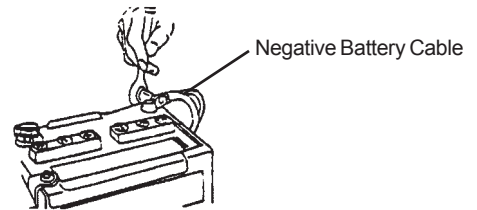
1. Place protective coverings on vehicle.
2. Disconnect negative battery clamp

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 & 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.



Option Step

5. Remove (2) Phillips 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.

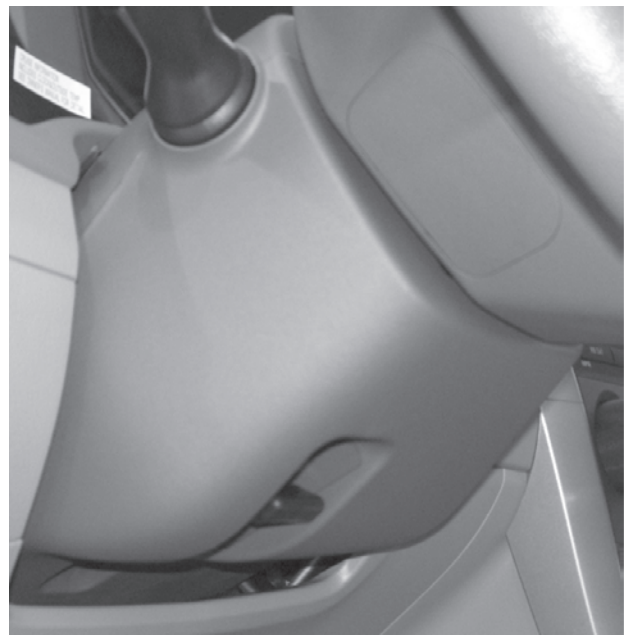


Option Step

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.

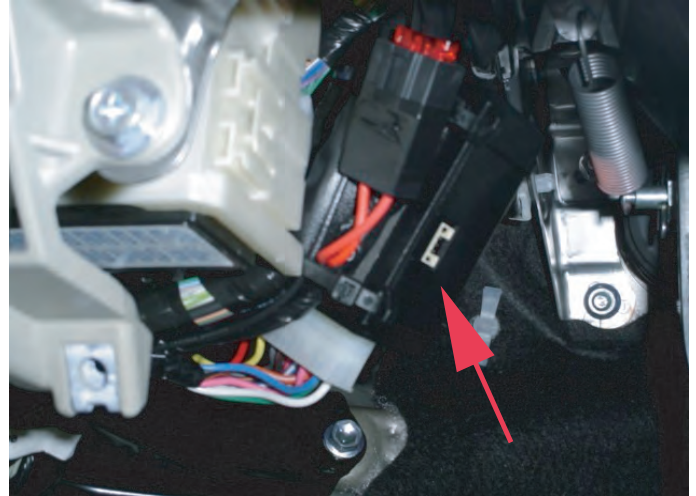


INSTALLING PROCEDURES

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.

Keyless Module



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

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

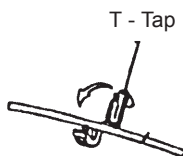
CONNECTING THE KEYLESS SYSTEM HARNESS:



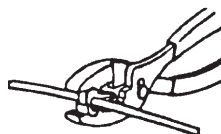
1. Carefully follow the wiring diagram and factory connector details on pages 5&6 for TMC vehicle's and pages 7&8 for NUMMI vehicle's.

T-TAP INSTALLATION:

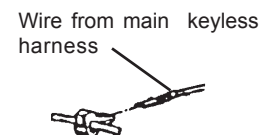
A. When installing female T - Tap connectors, be sure the wire is located inside the wire channel of the female T - Tap connector before closing connector over the wire with pliers.



Step A



Step B



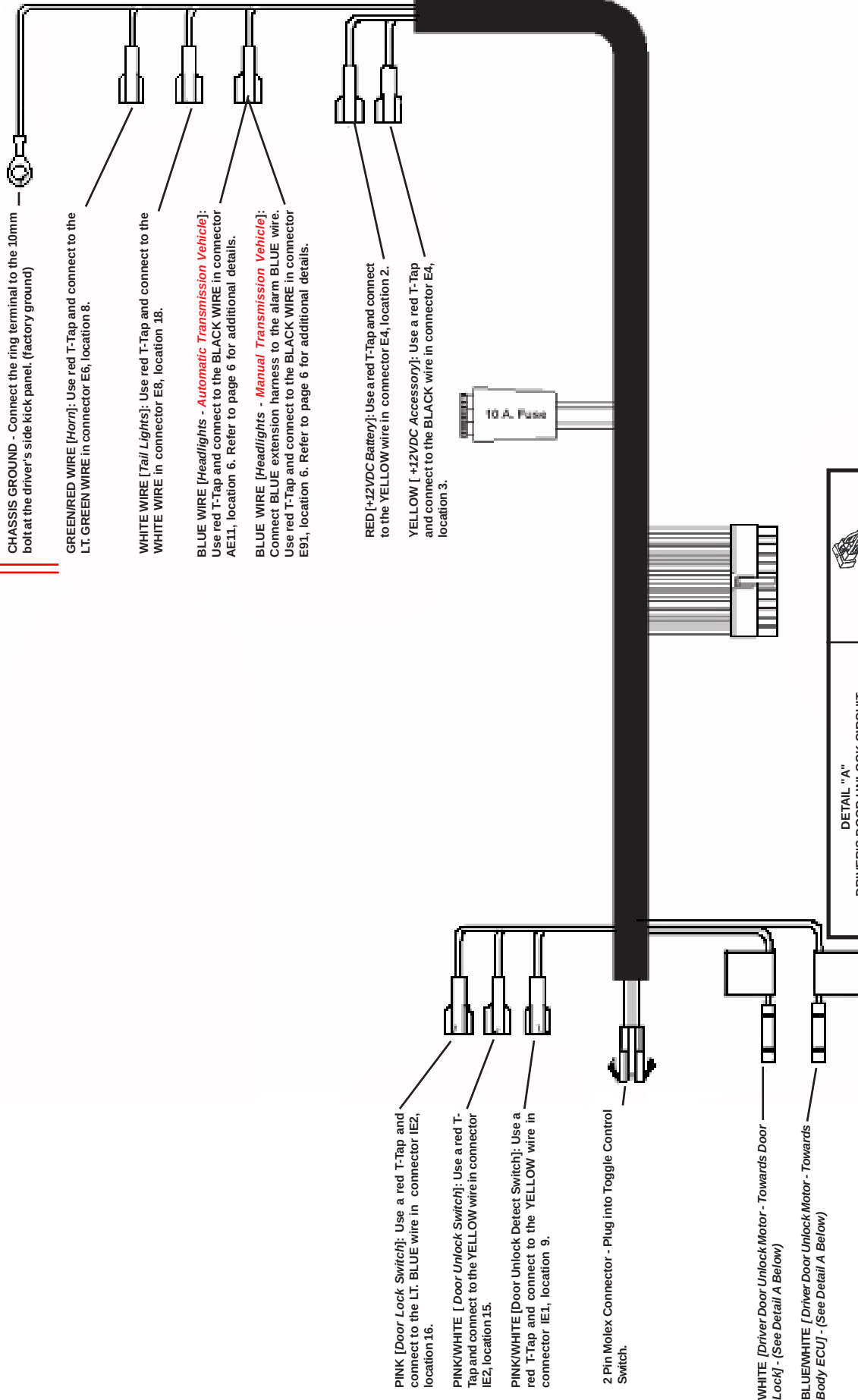
Step C



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)



Harness Wires
BLUE w/ WHITE
WHITE

Cut & Strip Existing Wire
WHITE

DETAIL "A"

DRIVER'S DOOR UNLOCK CIRCUIT

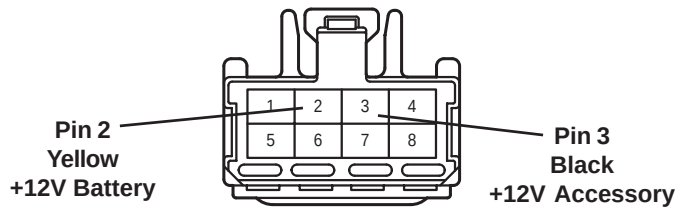
Cut the GREEN WIRE in connector IE2, location 17. Strip the insulation from both sides of the cut wire, and crimp the WHITE WIRE from the keyless harness to the HARNESS side of the cut wire. Crimp the BLUE/WHITE WIRE from the keyless harness to the CONNECTOR side of the cut wire.

CONNECTOR DETAILS:

COROLLA (TMC)

1. CONNECTOR E4 : Ignition Switch

Location : Steering Column

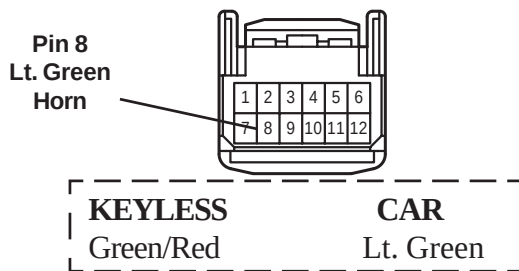


KEYLESS	CAR
Red	Yellow
Yellow	Black

2. CONNECTOR E6 : Horn

Location : Lower Steering Column Cover Area

Black Connector

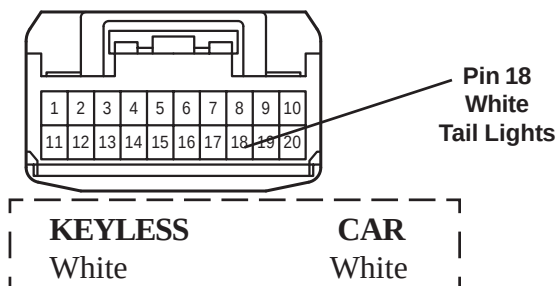


KEYLESS	CAR
Green/Red	Lt. Green

3. CONNECTOR E8 : Tailights

Location : Lower Steering Column Cover Area

White Connector



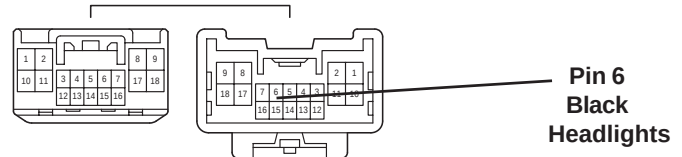
KEYLESS	CAR
White	White

4. CONNECTOR AE11 : Headlights (AT)

Location : High up in cowl, left of instrument panel

Automatic Transmission Vehicle's

White Connector



KEYLESS	CAR
Blue	Black

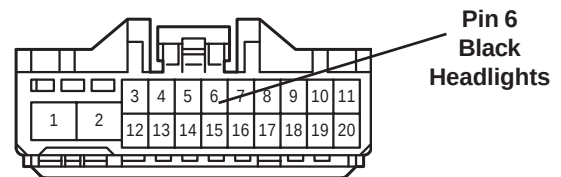
For manual transmission vehicle's, refer to Step 5, this page.

5. CONNECTOR E91 : Headlights (MT)

Location : Behind glove box

Manual Transmission Vehicle's

White Connector



Nummi Made Vehicle	
ALARM	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.

CONNECTOR DETAILS:

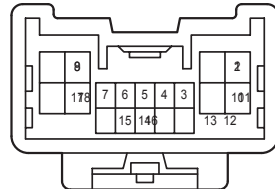
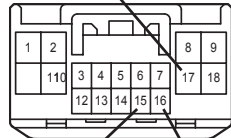
COROLLA (TMC)

6. CONNECTOR IE2 : Door Locks

Location : Driver's Kick Panel Area

White Connector

Driver's Door Lock Motor
Lt. 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

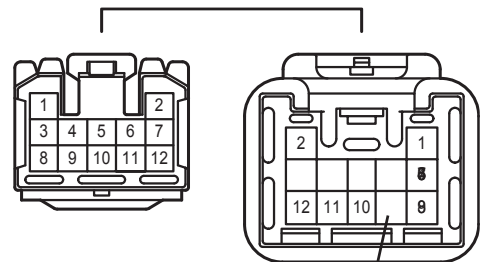
Blue
Yellow
Lt.Green (Lock Side)
Green (ECU Side)

** This vehicle wire must be cut in half,
refer to page 5 for instructions.

7. CONNECTOR IE1 : Unlock Detect

Location : Driver's Kick Panel Area

Blue Connector



Door Unlock Detect Switch
Yellow Wire
Location 9

KEYLESS

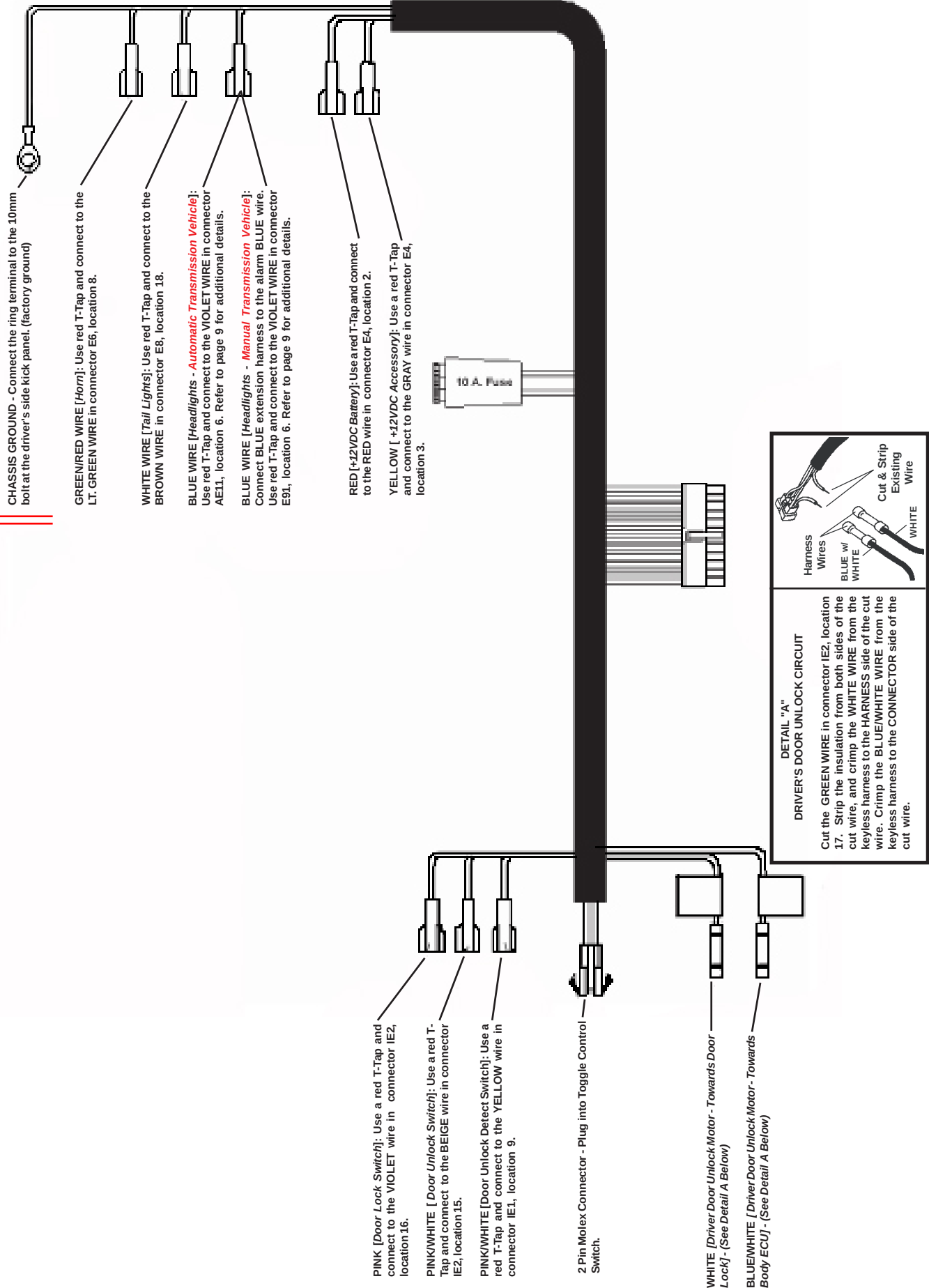
Pink/White

CAR

Yellow

WIRING DIAGRAM

WIRING DIAGRAM COROLLA (NUMMI)

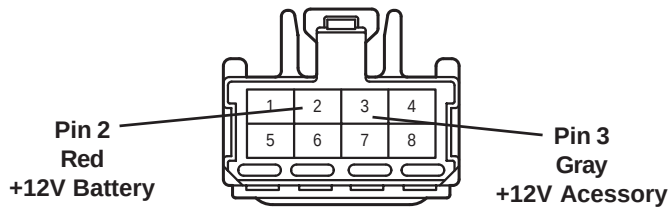


CONNECTOR DETAILS:

COROLLA (NUMMI)

1. CONNECTOR E4 : Ignition Switch

Location : Steering Column

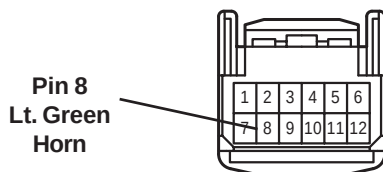


KEYLESS	CAR
Red	Red
Yellow	Gray

2. CONNECTOR E6 : Horn

Location : Lower Steering Column Cover Area

Black Connector

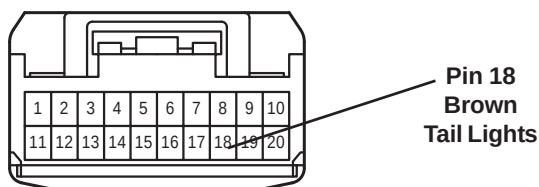


KEYLESS	CAR
Green/Red	Lt. Green

3. CONNECTOR E8 : Tailights

Location : Lower Steering Column Cover Area

White Connector



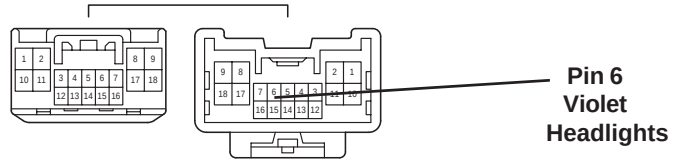
KEYLESS	CAR
White	Brown

4. CONNECTOR AE11 : Headlights (AT)

Location : High up in cowl, left of instrument panel

Automatic Transmission Vehicle's

White Connector



KEYLESS	CAR
Blue	Violet

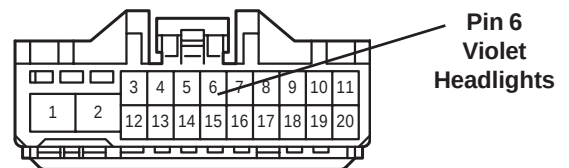
For manual transmission vehicle's, refer to Step 5, this page.

5. CONNECTOR E91 : Headlights (MT)

Location : Behind glove box

Manual Transmission Vehicle's

White Connector



Nummi Made Vehicle	
ALARM	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.

CONNECTOR DETAILS:

COROLLA (NUMMI)

6. CONNECTOR IE2 : Door Locks

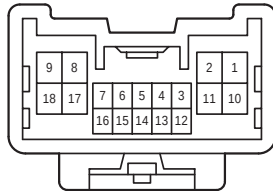
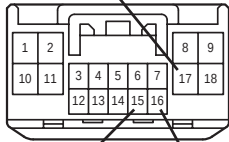
Location : Driver's Kick Panel Area

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)

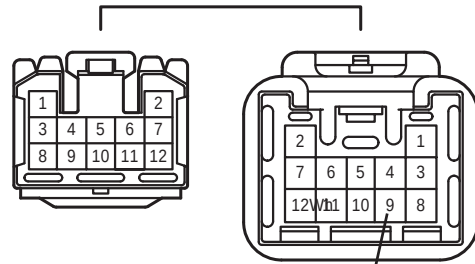
Green (ECU Side)

** This vehicle wire must be cut in half,
refer to page 7 for instructions.

7. CONNECTOR IE1 : Unlock Detect

Location : Driver's Kick Panel Area

White Connector



Door Unlock Detect Switch

Yellow Wire

Location 9

KEYLESS

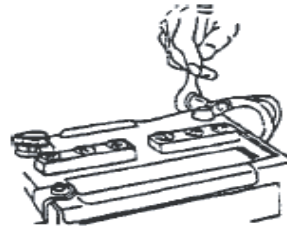
Pink/White

CAR

Yellow

COMPLETING THE INSTALLATION: COROLLA

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



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 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.

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.