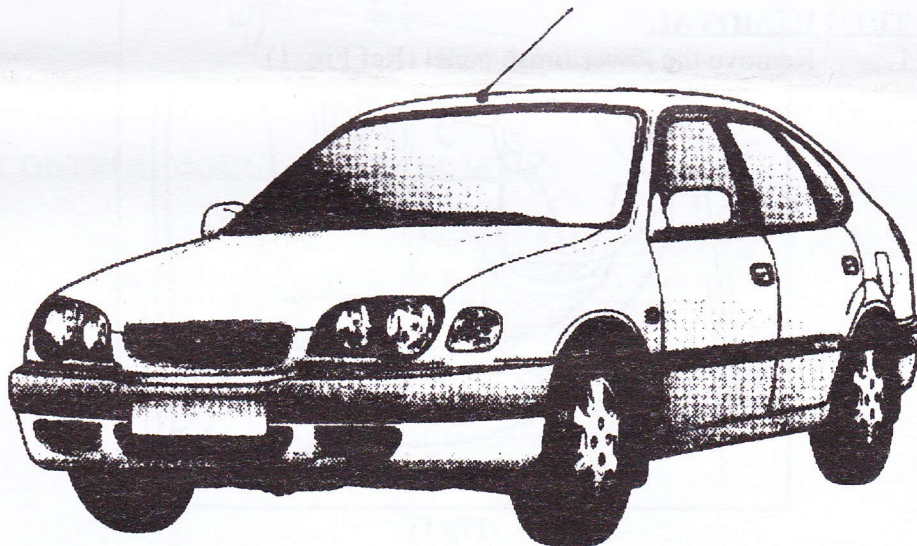




## **COROLLA AE112**

# **REMOTE CENTRAL LOCKING AND ALARM FITTING INSTRUCTIONS**

**MODEL: Lift back and Sedan from October 1999  
production**



**PART NO: PZQ71 12040**

Read all instructions carefully prior to immobiliser installation

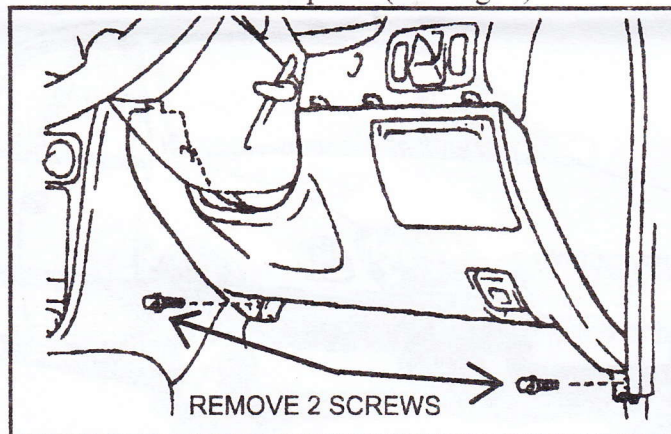
### **Parts List**

- 1 x Operating instructions
- 1 x Wiring loom
- 1 x Control module bracket
- 1 x Control module
- 2 x Transmitters
- 1 x 1-pin connector
- 1 x LED bezel
- 4 x Cable ties 250mm
- 10 x Cable ties 140mm

- **Disconnect battery before performing any work.**
- **CAUTION: Follow all Airbag SRS precautions as described in the Toyota Corolla (AE112) service manual.**
- **Record radio PIN number where applicable.**
- **Trim excess cable tie protrusion after installation.**
- **RHS = Right hand side (Driver's side).**
- **LHS = Left hand side (Passenger's side).**

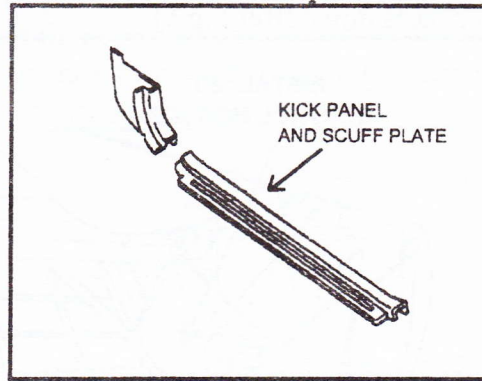
### **A. TRIM REMOVAL**

1. Remove the lower finish panel (Ref Fig. 1).



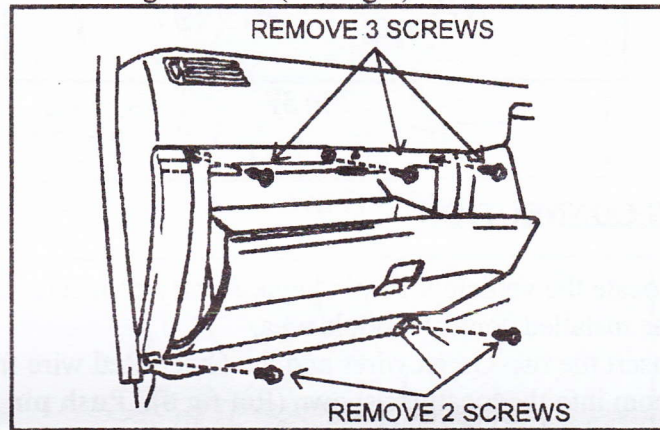
(Fig 1)

2. Remove the RHS and LHS kick panels and scuff plates (Ref Fig 2).



(Fig 2)

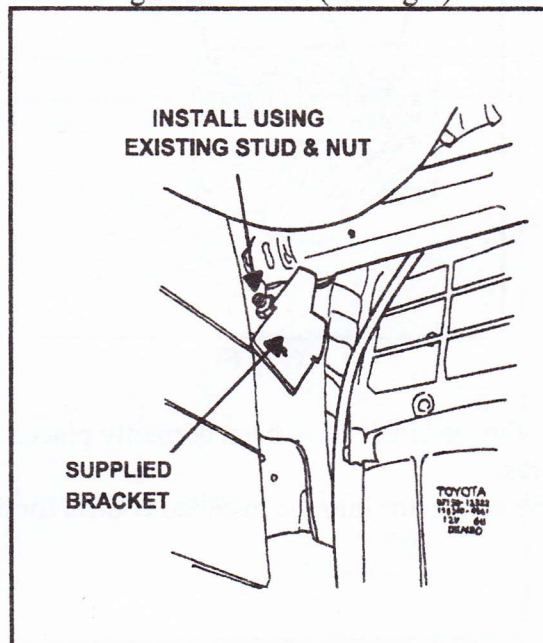
3. Remove the glove box (Ref fig 3).



(Fig 3)

## B. CONTROL MODULE INSTALLATION

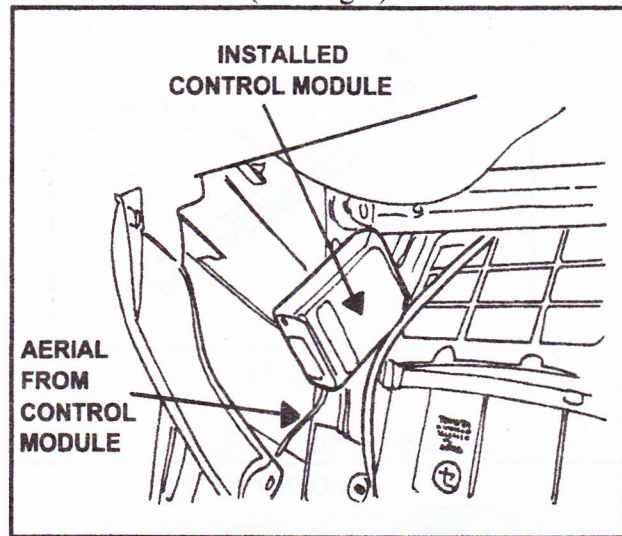
1. Secure the supplied bracket on the LHS area behind the glove box, using the existing stud and nut (Ref fig 4).



(Fig 4)



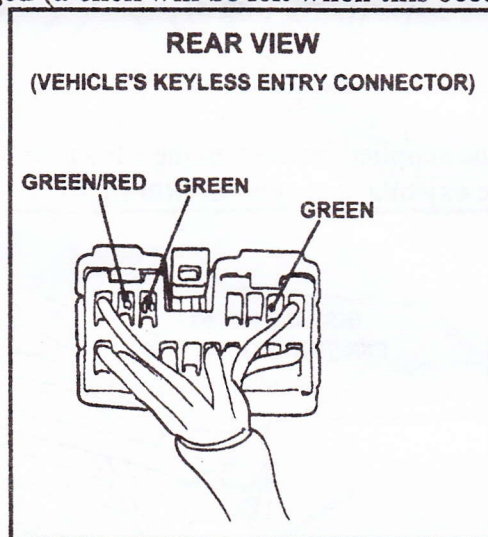
2. Slide the control module onto the installed bracket, ensuring the connector faces down (Ref Fig 5).



(Fig 5)

### C. WIRING CONNECTION

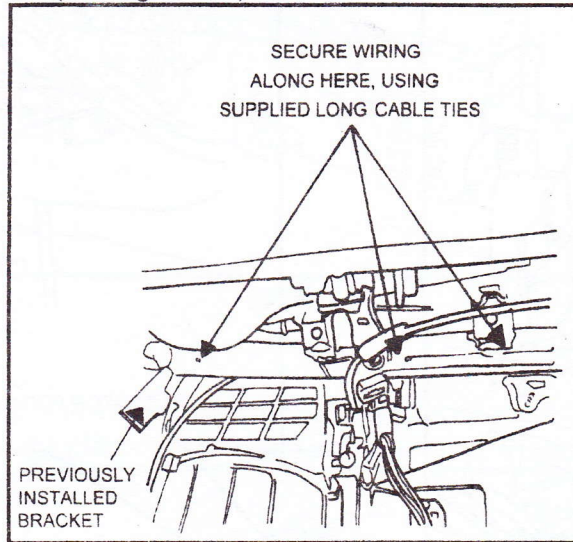
1. Locate the vehicle's 17-pin keyless entry connector next to or below the installed control module area.
2. Insert the two Green wires and the Green/Red wire from the supplied loom into the locations shown (Ref fig 6). **Push pin firmly until clip is engaged (a click will be felt when this occurs).**



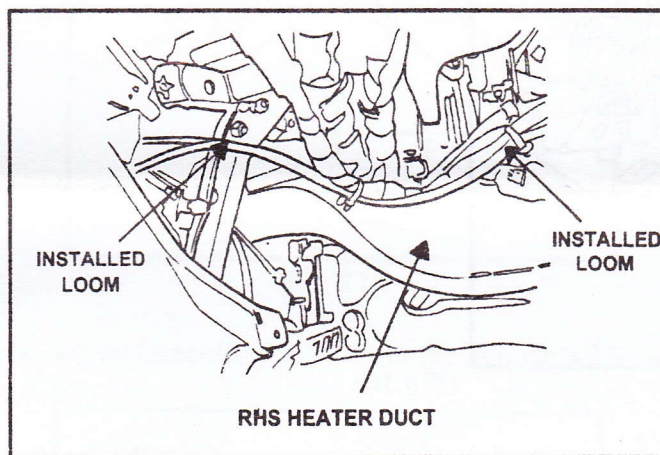
(Fig 6)

3. Ensure the terminals have been correctly placed by lightly tugging on the wires.
4. Plug the connector into the installed control module.

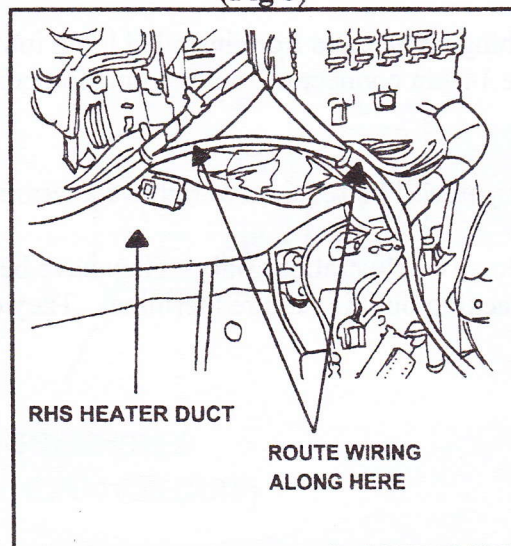
5. Route the wiring loom to follow the existing wiring along the LHS dash support frame behind the glove box area to the RHS area, securing loom at approximately 200 mm intervals using cable ties supplied (Ref fig 7, 8, 9).



(Fig 7)

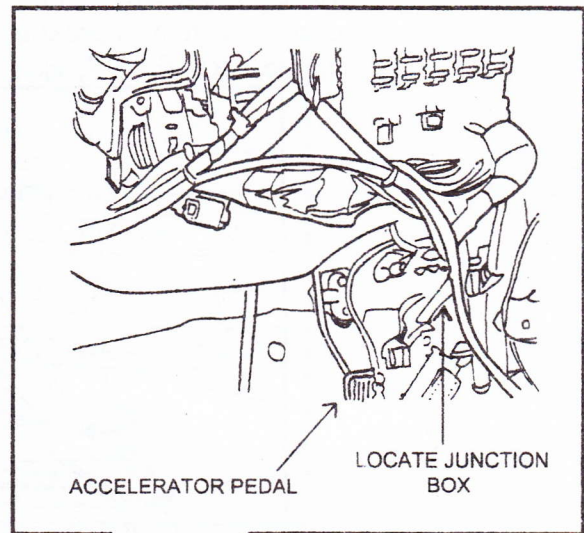
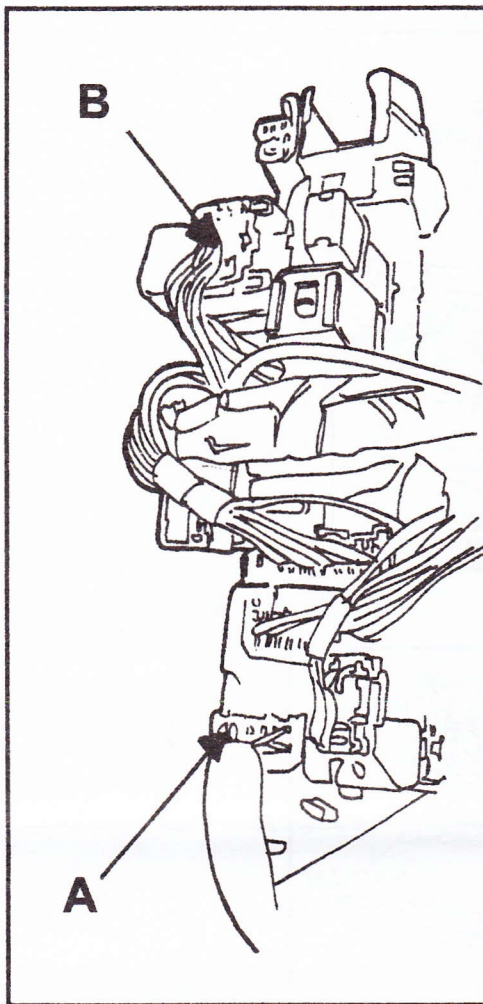


(Fig 8)



(Fig 9)

6. Locate the vehicle's connector junction box next to the accelerator pedal (Ref fig 10).



(Fig 10)

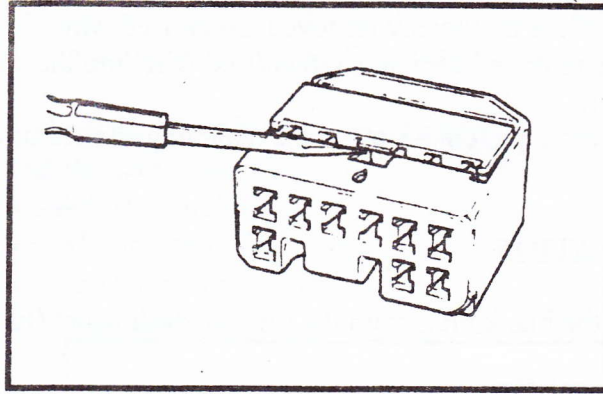
7. Disconnect the vehicle's 11-pin connector from the junction box (Ref Fig 10, A).
8. Connect matching connectors from installed loom into junction box.
9. Disconnect the 14-pin connector from the junction box (Ref fig 10, B).

**Note:** In the following point you will be required to remove a terminal from the 14-pin connector.

Figures 11 and 12 are representative illustrations only. They have been provided to show the procedure used in backing out the required terminal. They do not reflect the actual vehicle connectors.

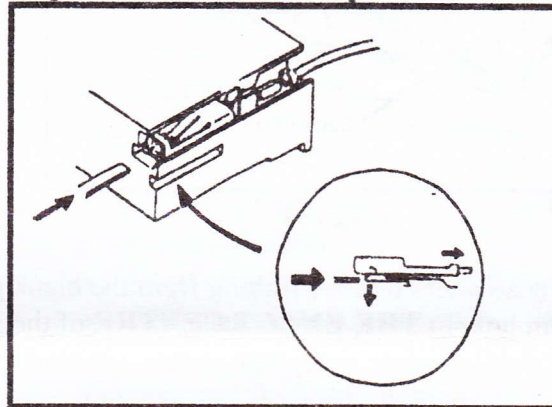


Lift the anti back out tab from underneath the connector (Ref Fig 11).



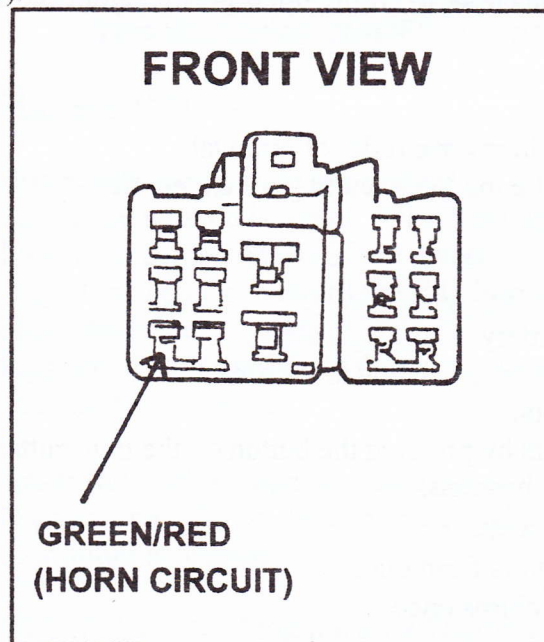
(Fig 11)

Insert a fine tip screwdriver into the required location on the front of the connector, lift the plastic retainer tab and pull out the terminal (Ref Fig 12).



(Fig 12)

10. Back out the Green/Red wire from the vehicle's 14-pin connector (Ref Fig 13).

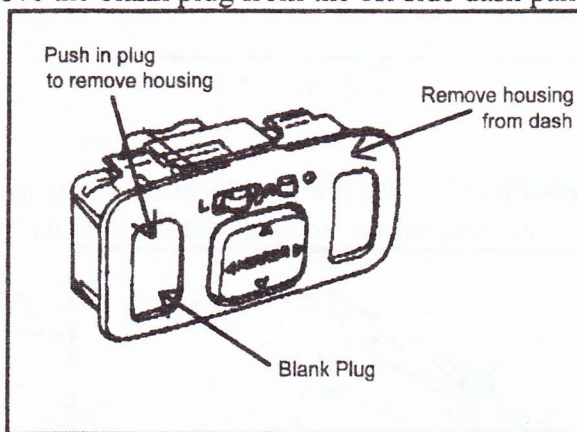


(Fig 13)

11. Insert the Green/Red wire from the installed loom into the same location of the previously removed Green/Red wire.
12. Insert the removed vehicle's Green/Red wire into the supplied 1-pin connector.
13. Connect the 1-pin connector to the matching connector on the installed loom.

#### **D. LED INSTALLATION**

1. Remove the blank plug from the off side dash panel (Ref fig 14).



(Fig 14)

2. Using long nose pliers remove ribbing from the blank plug cavity.
3. Drill an 8mm hole in **THE EXACT CENTRE** of the spare blanking plug, before drilling break away any material behind the blank plug's cavity area.
4. Once the hole is made, insert the LED through the hole and fit the LED bezel to it.
5. Push the LED with bezel back into the drilled hole for it to lock in place. Double check to ensure it has positively locked into place.

#### **E. FINAL**

1. Refit all trim in reverse order of removal.
2. Neatly cable tie the loom, cutting off excess tie.

#### **F. TESTING**

1. Reconnect battery.
2. Ensure the driver's window is lowered.
3. Close all doors.
4. Lock the doors by pressing the button on the transmitter and check that the following happens:
  - All doors lock.
  - All indicators flash once.
  - The horn chirps once.
  - LED turns on.



**Note:** Should the indicators continue to flash and the horn emits 5 chirps immediately after locking the doors, this indicates that a door is not closed properly. Check doors are fully closed and re-test.

5. Unlock the doors by pressing the button on the transmitter and check that the following happens:
  - All doors unlock.
  - All indicators flash twice.
  - The horn chirps twice.
  - LED turns off.
  
6.
  1. Ensure the driver's window is lowered.
  2. Close all doors.
  3. Lock the doors by pressing the button on the transmitter and check that the following happens:
    - All doors lock.
    - All indicators flash once.
    - The horn chirps once.
    - LED turns on.
  4. Wait for the LED to begin flashing after 7 seconds.
  5. Raise the driver's door manual lock.
  6. Open the door and check that the following happens:
    - Indicators flash.
    - Horn sounds (pulsing ON-OFF).
    - LED flashes at a faster rate.
  7. Press the button on the transmitter to stop the indicators from flashing and the horn sounding.  
**Note:** If the transmitter is not pressed the system will automatically stop after 30 seconds.
  8. Once the transmitter is pressed the LED will continue to flash, this is an indication that the alarm has triggered.
  9. Turn the ignition ON-OFF to stop the LED from flashing.

## **G. TROUBLE SHOOTING**

1. **Transmitters will not operate the system.**
  - a. Ensure the ignition is turned "OFF" and try again.
  - b. Ensure the dome light fuse is in place.
  - c. Inspect the vehicle's hazard flashing fuse located in the fuse panel under the bonnet.
  - d. Program the transmitters to the system (Refer to the Programming Transmitters section).
  
2. **One Transmitter will not operate the system**
  - a. Does the red LED on the transmitter light up when the button on the transmitter is pressed:  
  

**YES** (Refer to the Programming Transmitter section).

**NO** Replace the batteries in the transmitter then try again. If still unsuccessful, refer to Programming Transmitter section.

3. **Indicators continue to flash and the horn chirps five times after locking the doors using the transmitter.**  
This indicates that a door is not closed properly. Check all doors are fully closed and re-test.
4. **Horn sounds continuously when alarm is triggered.**
  - a. Carry out Horn/Siren programming procedure (Refer Programmable Features Section).

## **H. PROGRAMMABLE FEATURE**

### **1. Arm/Disarm Chirps (Factory Set "ON")**

When programmed "ON" the system will emit one "chirp" when arming and two "chirps" when disarming.

The following procedure will allow you to turn the "chirps" sound on or off:

- Arm then disarm the alarm system.
- Within 20 seconds of disarming, turn the ignition switch from the "ACC" position to the "ON" position six times. Leave the key in the "OFF" position after the sixth turn.
- Press the button on the transmitter. The indicators will flash six times to confirm the selection has been changed.

### **2. Horn/Siren (Factory set "HORN")**

When programmed to "HORN" the audible confirmation is given via the vehicle's horn. When programmed to "SIREN" the audible confirmation is given via an optional siren.

The following procedure will allow you to toggle between Horn and Siren.

- Arm then disarm the system.
- Within 20 seconds of disarming turn the ignition switch from the "ACC" position to the "ON" position nine times. Leave the key in the "OFF" position after the ninth turn.
- Press the button on the transmitter. The indicators will flash nine times to confirm the selection has been changed.

## **I. MANUAL OVERRIDE**

In the event that the system is armed and the transmitter is lost or becomes inoperative, the following procedure will enable you to manually disarm the system:

**Note:** During this procedure the horn will sound. Ignore this and continue with the procedure.

- Unlock the driver's door using the ignition key.
- Using the ignition key quickly turn the ignition switch from the "ACC" to "ON" position 10 times, leave the ignition "OFF" after the tenth turn and wait for the siren to stop sounding. If the system fails to override after the horn stops sounding, recycle the ignition ten times then wait for the horn to stop.



## J. PROGRAMMING TRANSMITTERS

When entering the transmitter programming mode, all transmitters (maximum of three) which will be required to operate the system will have to be programmed at the same time. The system has been designed this way for the security of the user, so that if a transmitter is lost it will be erased from the memory when programming the existing transmitters.

Procedure (with at least one functional transmitter)

- a. Ensure a door is open.
- b. Arm then disarm the system.
- c. Within 20 seconds of disarming, turn the ignition key from the "ACC" position to the "ON" position 20 times leaving the key in the "ACC" position after the twentieth turn.
- d. The vehicle's indicators will flash 20 times to indicate successful entry.
- e. Once the indicators have finished flashing press the button on each of the transmitters.
- f. Once finished turn the ignition key to the "ON" position to lock in and exit from the programming mode.

Procedure (without transmitter)

- a. Ensure a door is open.
  - b. Disconnect the negative battery cable, wait 5 seconds then reconnect.
- Note:** If the system begins to sound, complete the manual override procedure, or completion of manual override procedure with:
- c. Within 20 seconds, turn the ignition key from the "ACC" to "ON" position 20 times leaving the key in the "ACC" position after the twentieth turn.
  - d. The vehicle's indicators will flash 20 times to indicate successful entry.
  - e. Once the indicators have finished flashing, press the button on each transmitter.
  - f. Once finished turn the ignition key to the "ON" position to lock in and exit from the programming mode.

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