



**GENUINE ACCESSORIES**

# INSTALLATION INSTRUCTIONS

## REMOTE START SYSTEM

PART NUMBER(S):

0000-8F-L82

APPLICABLE MODELS:

2012 > MAZDA 5

KEY START MODELS

NOTE: BOTH VEHICLE IGNITION KEYS ARE REQUIRED AT TIME OF INSTALLATION. DO NOT BEGIN INSTALLATION WITHOUT BOTH KEYS.

NOTE: MAZDA HOOD LATCH SWITCH PART#C901-V7-629A **MUST** BE USED ON ALL VEHICLES **EXCEPT "GT"** MODELS. THE MAZDA HOOD LATCH SWITCH IS **NOT** SUPPLIED WITH THIS KIT AND MUST BE OBTAINED SEPARATELY.



### Technical Support

For Authorized Dealers - (800) 666-0609  
Hours: 9:00 a.m. - 7:00 p.m. EST Monday thru Friday  
9:00 a.m. - 5:00 p.m. EST Saturday

### KIT CONTENTS:

Item	Description	Qty	Item	Description	Qty
	Remote Start Control Module w/ DNA Card Software P/N:0000-8F-L83	1		Remote Start Transmitters P/N:0000-8F-Z02	2
	Remote Start Wire Harness P/N:0000-8F-L84	1		Immobilizer Interface Module and Harness P/N:0000-8F-L43A	1
	Dipole Antenna P/N:0000-8F-Z10	1		Wallet Card	1
	Programming Button P/N:0000-8F-Z03	1		Underhood Sticker P/N:0000-8F-Z12	1
	Long Wire Tie	4		Owner's Manual	1

### PARTS BAG CONTENTS:

Item	Qty	Item	Qty	Item	Qty
	8		1		1
	1		20		1

### TOOLS REQUIRED:

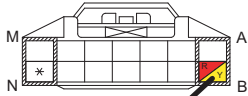
SAFETY GLASSES  
ELECTRICAL TAPE  
WIRE CUTTERS  
PLIERS  
ALCOHOL OR GLASS CLEANER  
#2 PHILLIPS SCREWDRIVER  
FLAT HEAD SCREWDRIVER  
POWER DRILL  
FIBER STICK  
1/4" DRIVE RACHET  
1/4" DRIVE 10mm SOCKET  
3/8" DRIVE TORQUE WRENCH  
3/8" DRIVE 10mm SOCKET  
PICK TOOL

## 0 VEHICLE PREPERATION

1. CLEAN HANDS
2. OPEN DRIVER'S DOOR WINDOW
3. RECORD RADIO AND SATELLITE STATION PRESETS
4. SET PARKING BRAKE
5. DISCONNECT AND ISOLATE NEGATIVE BATTERY TERMINAL
6. VEHICLE MUST BE AT ROOM TEMPERATURE

**Brake Switch Connection**

Connector: C10 (Short Cord)  
 Location: Left kick area - Mounted to vehicle dash wall  
 Cavity: B  
 Color: Red/Yellow

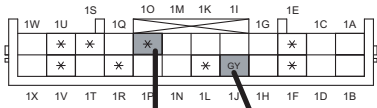


**Hood Switch Connection**

Connector: 0940-101A (Connector on left)  
 Location: At BCM behind glove box  
 Cavity: 1J  
 Color: Gray

**Door Ajar Connection**

Connector: 0940-101A (Connector on left)  
 Location: At BCM behind glove box  
 Cavity: N/A - Vacant  
 Color: N/A

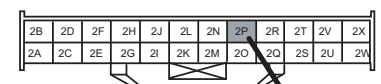
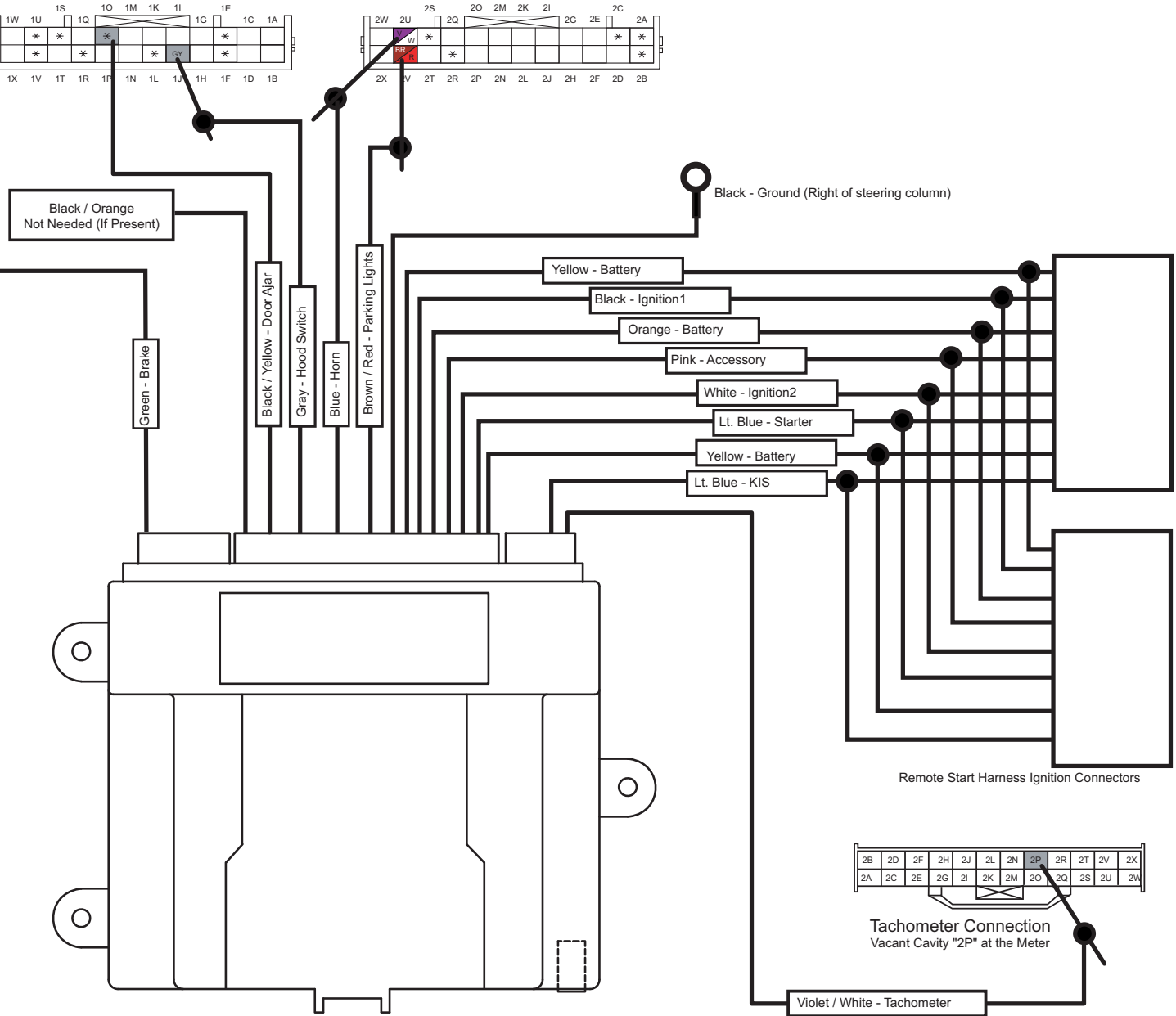
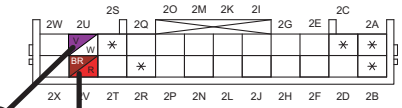


**Horn Connection**

Connector: 0940-101C (Connector on right)  
 Location: At BCM behind glove box  
 Cavity: 2U  
 Color: Violet / White

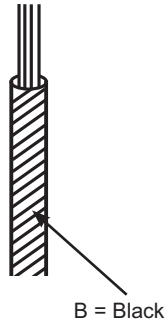
**Parking Light Connection**

Connector: 0940-101C (Connector on right)  
 Location: At BCM behind glove box  
 Cavity: 2V  
 Color: Brown / Red

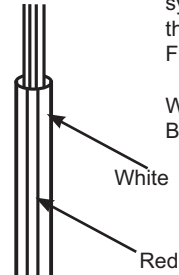


# 0 ELECTRICAL SYSTEM GENERAL PROCEDURES

Solid Wire Color



Striped Wire



Two-color wire are indicated by a two-letter symbol. The first indicates the base color of the wire, the second the color of the stripe. For example:

W/R is a white wire with a red stripe  
BR/Y is a brown wire with a yellow stripe

W/R = White (Base Color)  
= Red (Stripe)

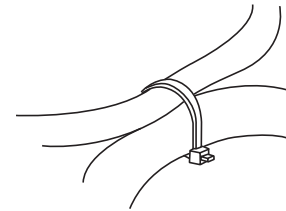
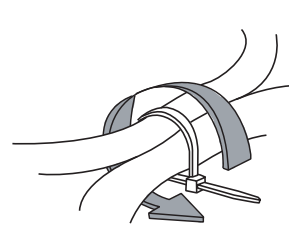
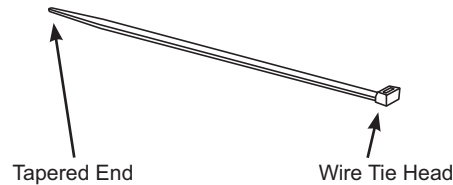
1. Wrap wire tie around the harnesses you wish to secure together.

2. Insert the *Tapered End* of the wire tie into the *Wire Tie Head*.

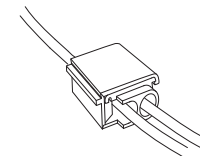
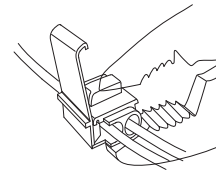
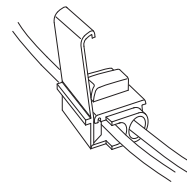
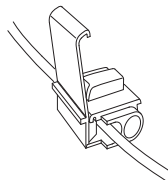
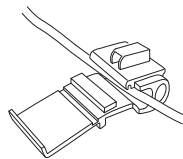
3. Pull the *Tapered End* through the *Wire Tie Head* until the wire tie is snug.

4. Trim wire tie end after tightening.

## Wire Tie Procedure



## IDC Wire Tap Procedure



1. Place IDC on vehicle wire.

2. Close side of IDC.

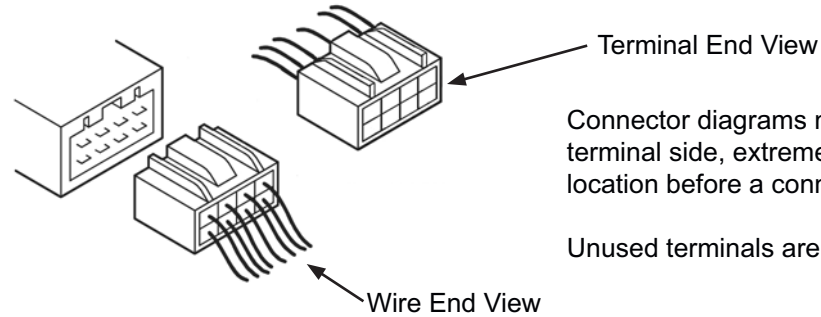
3. Insert remote start wire into IDC.

4. Crimp IDC metal tab over both wire until flush with top of IDC.

5. Close top of IDC.

## 0 ELECTRICAL SYSTEM GENERAL PROCEDURES; continued

### Connector Diagrams



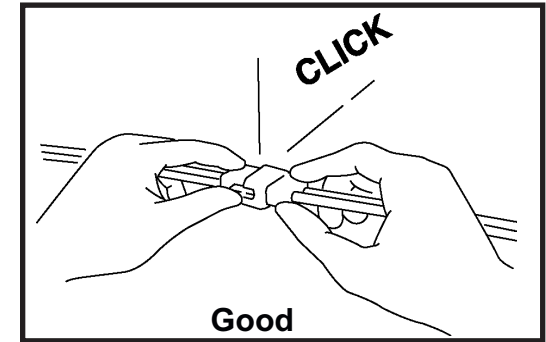
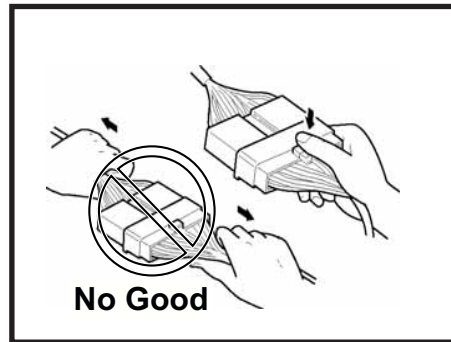
Connector diagrams may be shown on the harness side or the terminal side, extreme care must be taken to verify proper terminal location before a connection is made.

Unused terminals are indicated by \*.

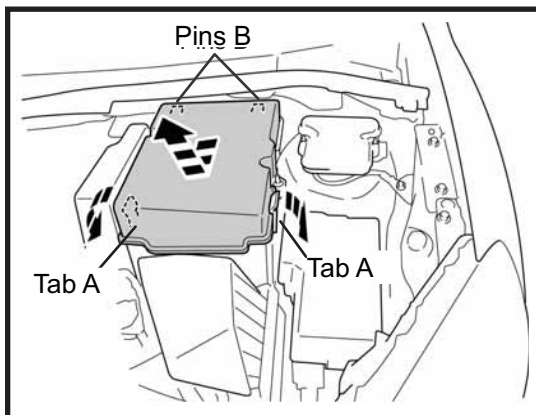
### Connecting / Disconnecting Connectors

Disconnecting Connectors - When disconnecting connectors, grasp the connectors, NOT the wires.

Locking Connectors - When locking connectors, listen for a "click", indicating they are securely locked.



## 1 VEHICLE PREPERATION



### Battery Cover Removal (if equipped)

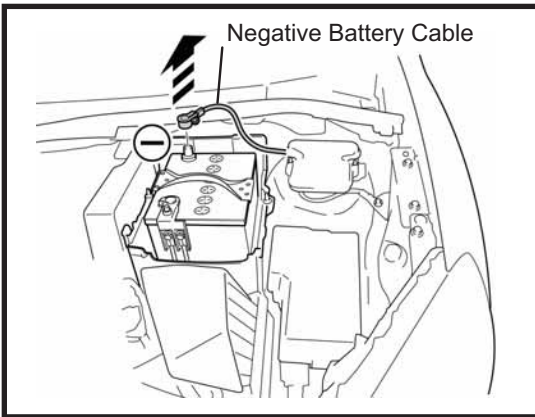
1. Set the selector lever to range "D".

### WARNING

When removing/installing parts, park the vehicle on level ground and apply the side brake securely. Be sure to turn the ignition switch off, otherwise the vehicle can move, causing personal injury or vehicle damage.

2. Remove tabs "A" and lift up the front of the battery cover.
3. Pull the battery cover outward, remove pins "B", and remove the battery cover.

# 1 VEHICLE PREPERATION; continued

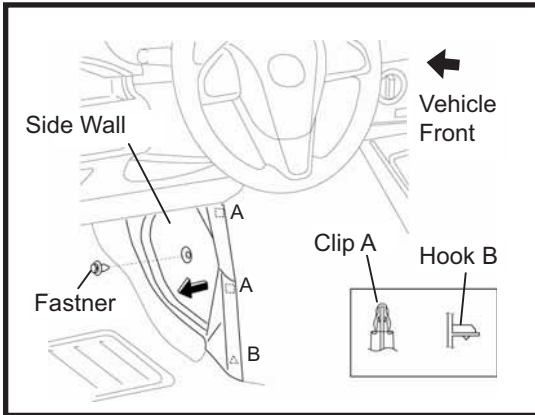


## Negative battery cable disconnection

1. Disconnect and isolate the negative battery cable.

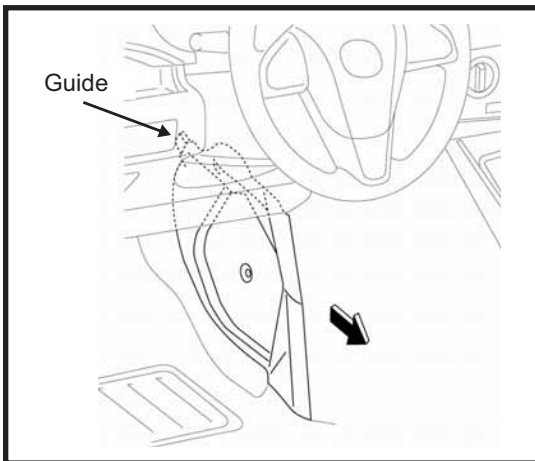
### WARNING

When the negative battery cable is connected during operation, it may cause electric shock or other personal injuries. Disconnect the negative battery cable before removal/installation.



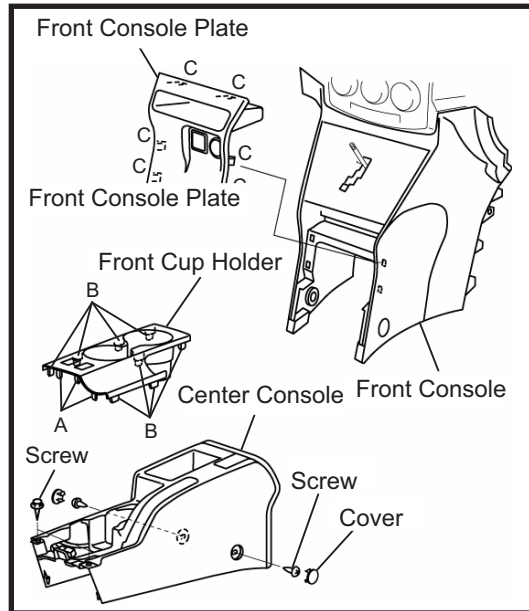
## Side wall (driver's and passenger's) removal

1. Remove the fastner.
2. Pull the side wall in the direction of an arrow, and disengage the clips (A) and hook (B).



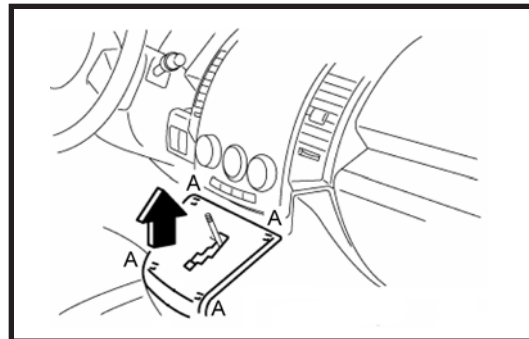
3. Pull the side wall in the direction of the arrow shown in the figure, then remove it while detaching the guide.
4. Remove the side wall from the vehicle.

# 1 VEHICLE PREPERATION; continued

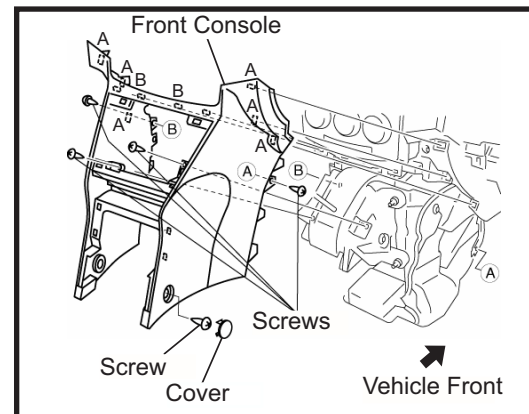


## Front console removal

1. Pull the front cup holder upward and detach the tabs (A) and tabs (B) to remove the front cup holder from the center console, and disconnect the connectors.
2. Pull the front console plate outward and detach clips (C) to remove the front console plate from the console, and disconnect the connectors.
3. Remove the screws, then remove the center console.



4. Remove the selector lever knob.
5. Detach the clips (A) to remove the indicator panel from the front console.

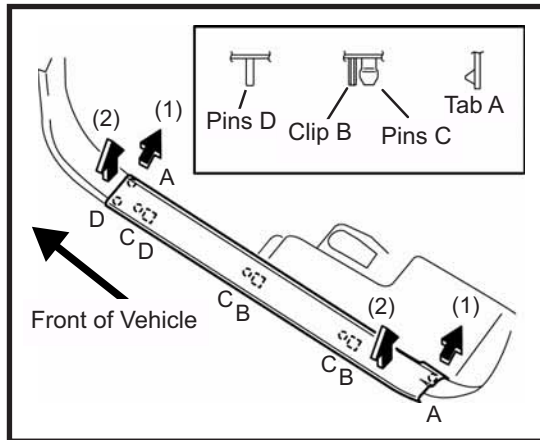


6. Remove the (6) phillips screws.
7. Pull the front console outward and detach clips (A) and tabs (B) to remove the front console.

### CAUTION:

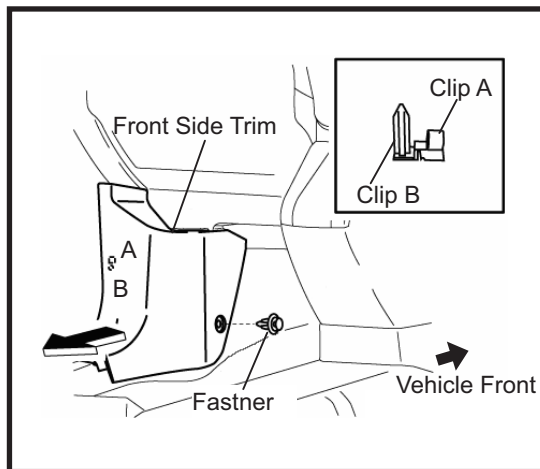
There are tabs (B) that are very difficult to access behind the face plate. Failure to properly release these tabs will result in damage to the front console.

# 1 VEHICLE PREPERATION; continued



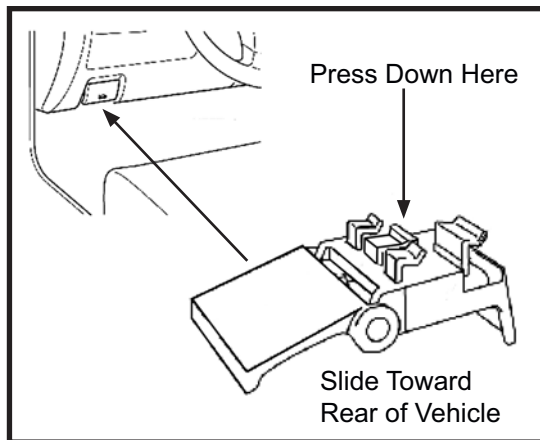
## Driver's side door step sill removal

1. Pull the driver's step sill trim panel in the direction of the arrow (1) and detach tabs (A).
2. Pull the driver's step sill trim panel in the direction of the arrow (2) and detach pins (B) and clips (C).
3. Remove the driver's step sill trim panel from the vehicle.



## Driver's side kick panel removal

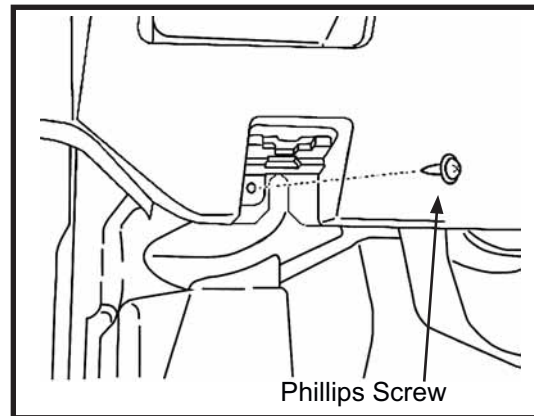
1. Remove the plastic fastner.
2. Pull the driver's kick panel in the direction of the arrow and detach clip "A" and pin "B".



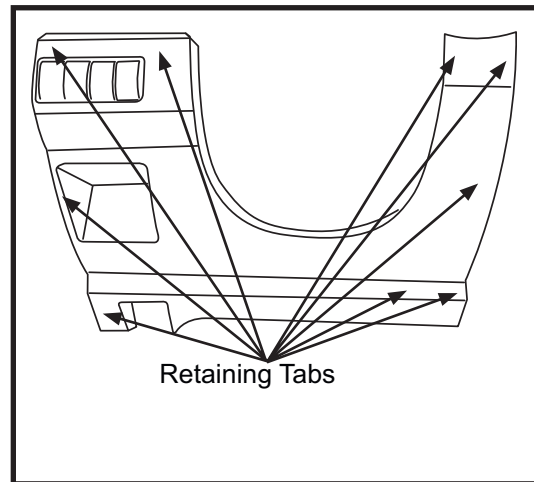
## Driver side lower dash trim panel removal.

1. Remove the hood release lever by pulling out and inserting a fiber stick to depress the center locking tab.
2. Pull the hood release lever toward the driver's seat to remove.

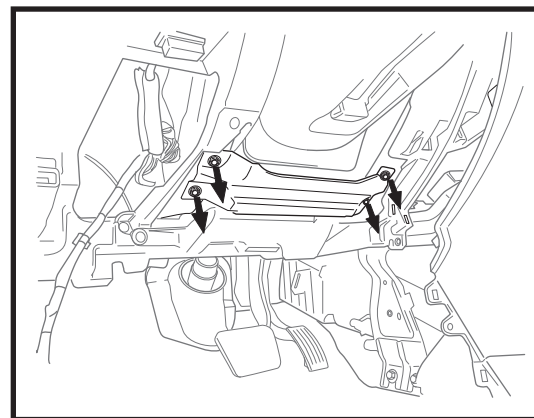
# 1 VEHICLE PREPERATION; continued



3. Remove the phillips screw located behind the hood release lever.



4. Remove the driver's side lower dash trim panel by disengaging the (9) retaining tabs.
5. Disconnect any connectors attached to the lower dash trim panel.
6. Remove the driver's side lower dash from the vehicle.



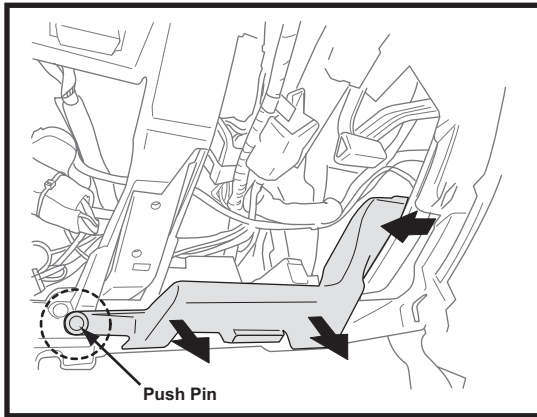
## Dash knee bolster removal

1. Remove the (4) 10mm bolts securing the metal knee bolster to the dash assembly.
2. Remove the metal knee bolster from the vehicle.

**CAUTION:**  
Metal knee bolster contains many sharp edges, use extreme care when removing.

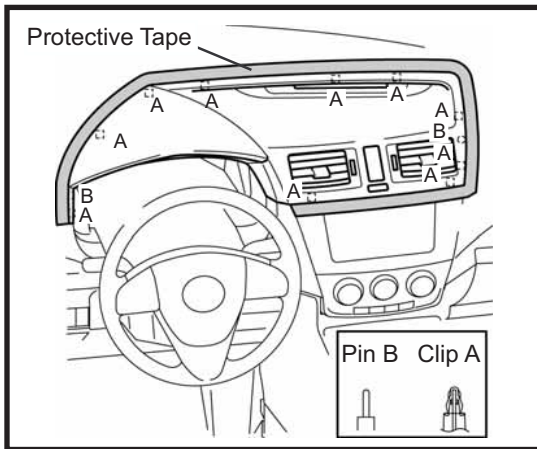


# 1 VEHICLE PREPERATION; continued



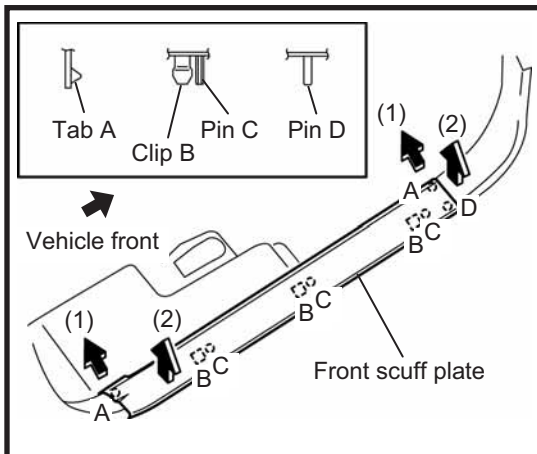
## Driver's side lower HVAC duct removal

1. Remove the (1) plastic push pin securing the HVAC duct to the dash assembly.
2. Remove the HVAC duct from the vehicle.



## Switch panel removal

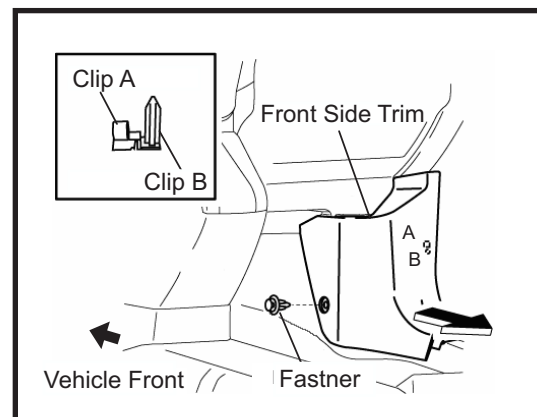
1. Apply protective tape to the area shown in the figure to protect the switch panel from scratches.
2. Pull the switch panel outward and detach clips (A) and pins (B).
3. Disconnect the hazard switch connector and the Bluetooth connector (if equipped).
4. Remove the switch panel.



## Passenger's side door step sill removal

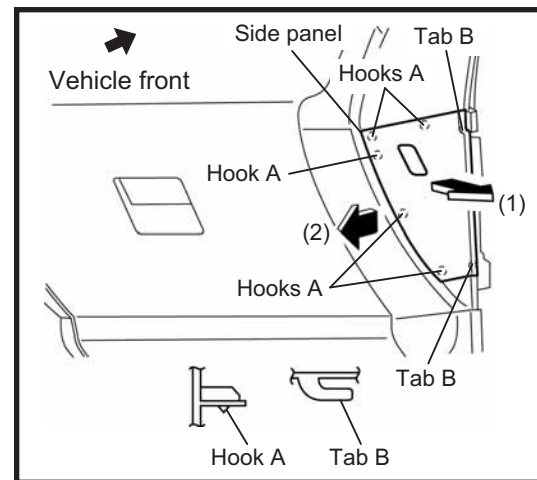
1. Pull the driver's step sill trim panel in the direction of the arrow (1) and detach tabs (A).
2. Pull the driver's step sill trim panel in the direction of the arrow (2) and detach pins (B) and clips (C).
3. Remove the driver's step sill trim panel from the vehicle.

# 1 VEHICLE PREPERATION; continued



## Passengers's side kick panel removal

1. Remove the plastic fastener.
2. Pull the driver's kick panel in the direction of the arrow and detach clip "A" and pin "B".

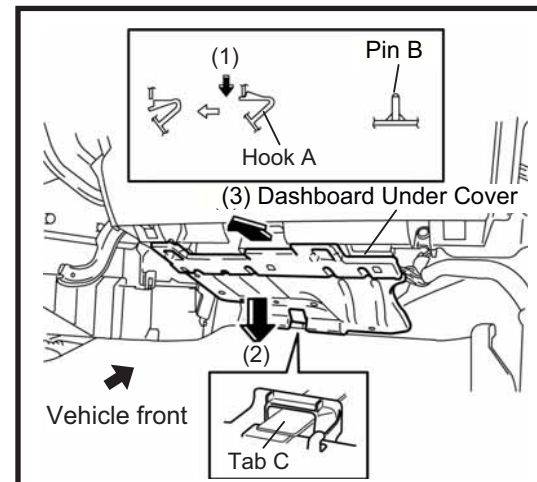


## Side panel removal

1. Pull the side panel in the direction of the arrow (1) shown in the figure, then remove the hooks (A).

**CAUTION:**  
When pulling out the side panel, be careful not to damage the clips (B).

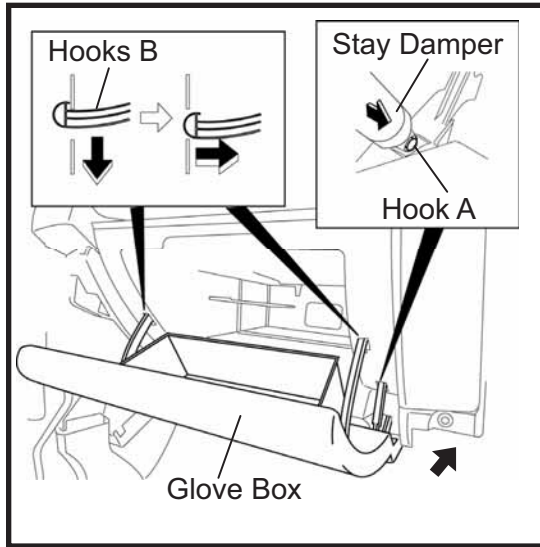
2. Remove the side panel.



## Dashboard under cover removal

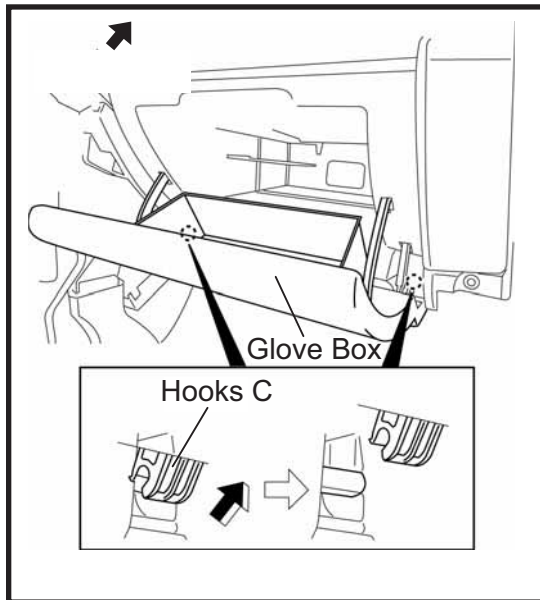
1. Detach the hooks (A) and pins (B) in the direction of the arrow (1) shown in the figure.
2. Pull the dashboard under cover in the direction of the arrow (2).
3. Remove the dashboard under cover in the direction of the arrow (3), then remove the tab (C).

# 1 VEHICLE PREPERATION; continued



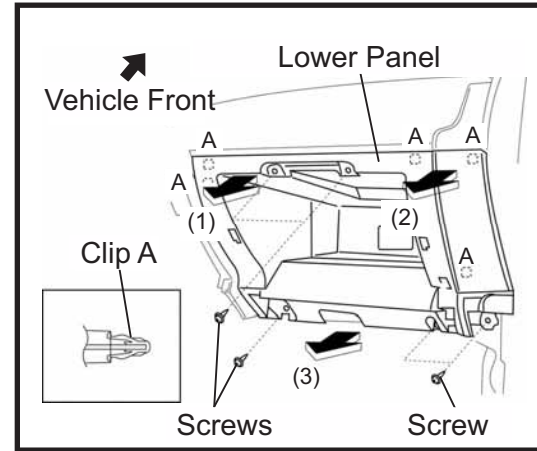
## Glove box removal

1. Push the stay damper in the direction of the arrow and disengage the hook (A).
2. Push down and disengage the hooks (B).



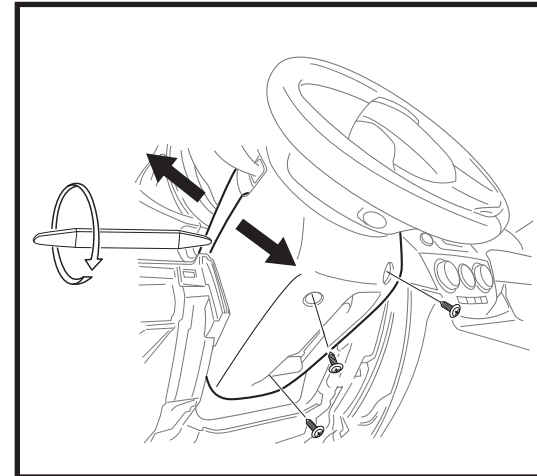
3. Pull the glove box up shown in the figure, and disengage the hooks (C).
4. Remove the glovebox.

# 1 VEHICLE PREPERATION; continued



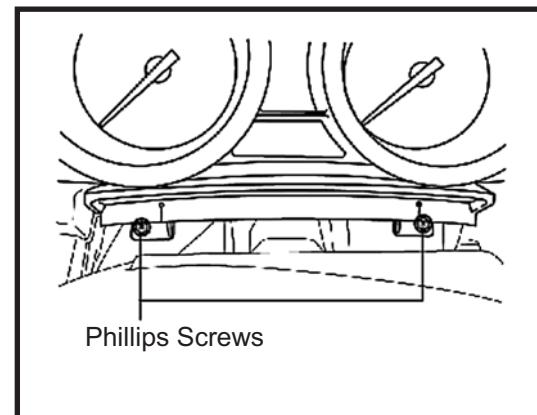
## Lower panel (passenger's side) removal

1. Remove the screws.
2. Pull the lower panel in the direction of the arrow in the order of (1) to (3), and remove the lower panel while detaching the clips (A).



## Steering column cover removal

1. Remove the (3) phillips screws from the lower steering column cover.
2. Insert a fiber stick between the combination switch and the lower cover. Gently rotate the fiber stick until the top and bottom covers separate.

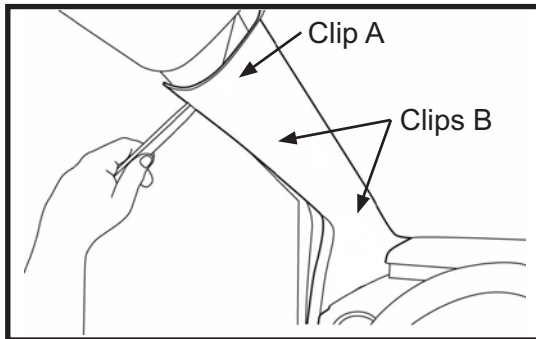


## Instrument cluster removal

1. Remove the (2) phillips screws securing the instrument cluster to the dash assembly.
2. Disconnect any connectors located on the back of the instrument cluster.
3. Remove the instrument cluster from the vehicle.



## 1 VEHICLE PREPERATION; continued



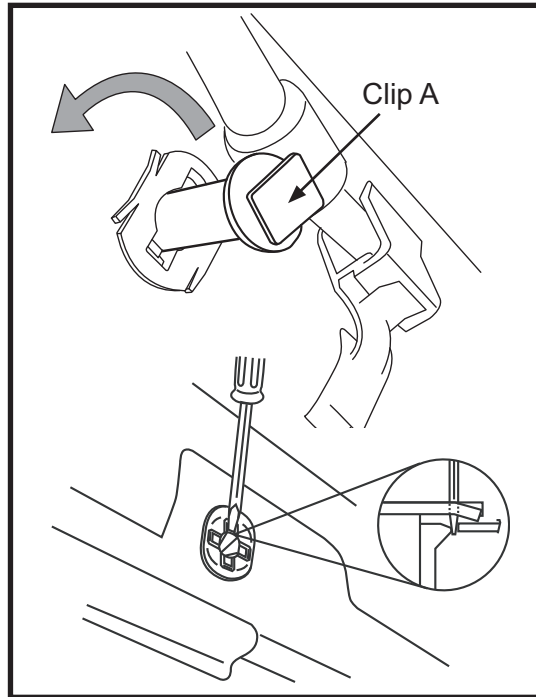
### Driver's side A-pillar trim panel removal

1. Partially remove the weatherstrip near the driver's A-pillar trim panel.
2. Using a fiber stick, disengage the (3) retaining tabs.
3. Remove the driver's A-pillar trim panel from the vehicle.

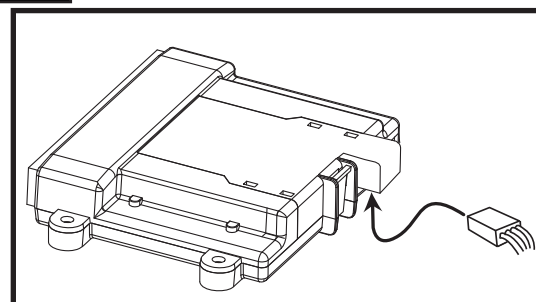
### NOTE:

Clip "A" and Grommet "B" must be replaced during re-assembly, using the supplied "A" pillar trim clip and grommet. In some instances, clip "A" may become unattached from the A-pillar trim panel. Remove the clip from the body structure by rotating counter-clockwise 45° while pulling outward. Remove the grommet by inserting a flat head screw driver between the body and the grommet. Disengage the tabs and remove the grommet.

Clip P/N: GJ6A-68-162  
Grommet P/N: GJ6A-68-155A



## 2 CONTROL MODULE PREPERATION



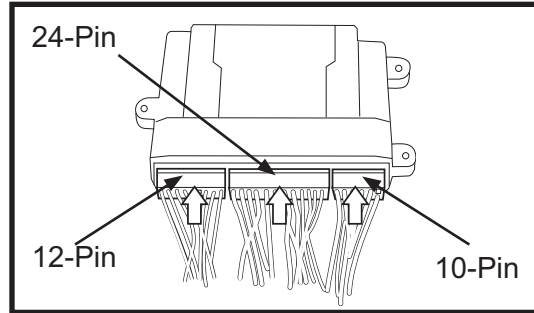
### Inserting connectors into the Remote Start module

1. Plug in the supplied immobilizer interface 3-pin connector into the remote start DNA card.

### NOTE:

The mating connector is located under the DNA case top.

## 2 CONTROL MODULE PREPERATION; continued

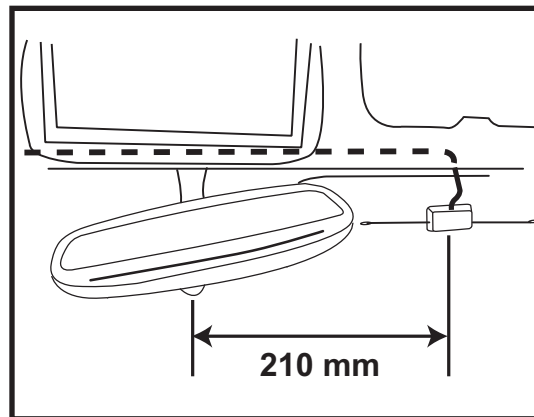


4. Plug the supplied wire harness 10-pin, 12-pin and 24-pin connectors into the Remote Start control module. Make sure the connectors are seated properly.

### NOTE:

The connectors will only plug into the Remote Start control module one way.

## 3 DIPOLE ANTENNA MOUNTING



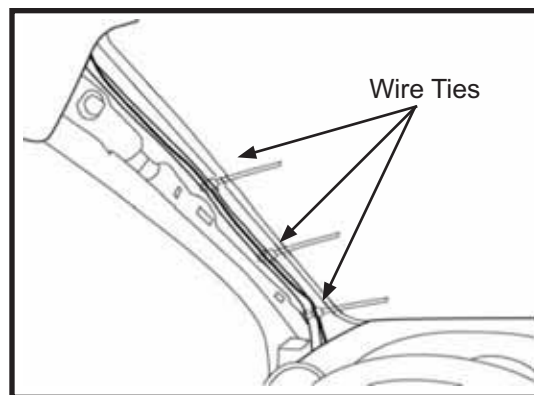
### Mounting dipole antenna

1. Using alcohol, cleaning the area of the windshield to the right of the rear view mirror.
2. Using the diagram shown, mount the dipole antenna directly below the black windshield frit. Ensure the dipole antenna is pressed firmly to the windshield.

### CAUTION:

Mounting dipole antenna on black windshield frit will result in reduced operating range.

3. Route the antenna wire above the headliner to the driver's "A" pillar, using a fiber stick to secure under the headliner.

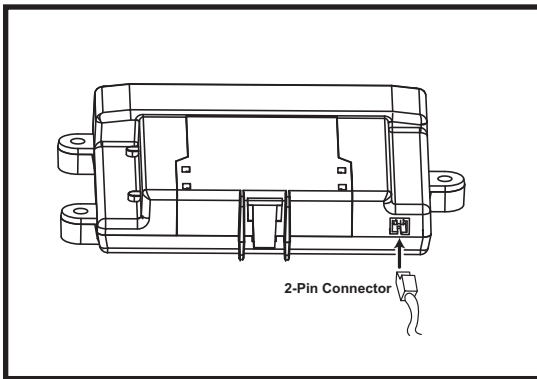


4. Route the antenna wire down the driver's "A" pillar, securing it to the existing wire harness with (3) supplied, short wire ties. Trim off excess wire ties.

### CAUTION:

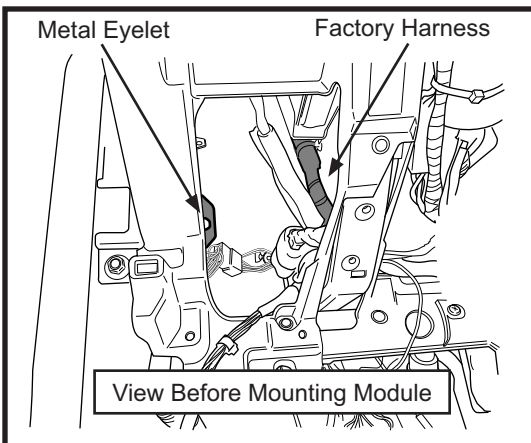
Do not secure antenna wire to the moonroof drain tube, if equipped, or to any air bag components.

### 3 DIPOLE ANTENNA MOUNTING; continued



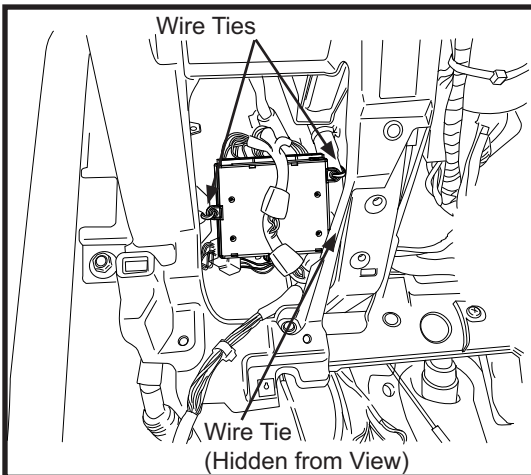
5. Route the antennas wire behind the left side of the dashboard and over to the remote start control module.
6. Plug the 2-pin antenna connector into the 2-pin port on the back of the Remote Start control module.
7. Re-install the driver's side "A" pillar panel and re-install the rubber weatherstrip along the "A" pillar.

### 4 REMOTE ENGINE START MODULE MOUNTING

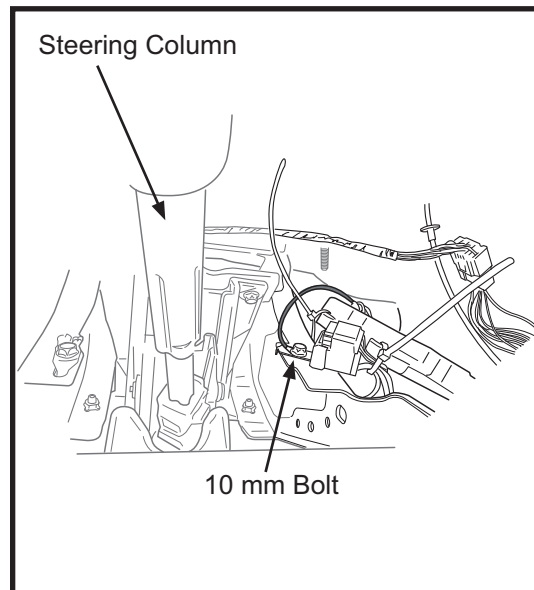


#### Module mounting

1. Locate the factory wire harness and the metal eyelet located in the driver's kick panel area.
2. Using (3) long wire ties, secure the Remote Start control module to the factory wire harness and to the metal eyelet. Trim off excess wire ties.



### 5 GROUND CONNECTION



#### Connecting Remote Start module ground wire

1. Locate the 10mm factory bolt, mounted high up under the dash, to the left of the steering column.
2. Using a 10mm socket and ratchet, remove the 10mm bolt.
3. Using the 10mm bolt just removed, secure the Remote Start harness BLACK/ORANGE ground wire with ringlet and tighten with a 10mm socket and ratchet.

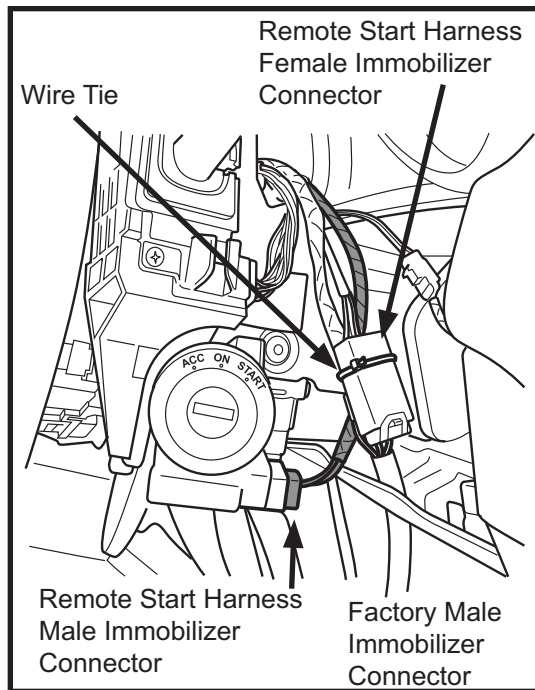
#### NOTE:

Using a 3/8" drive torque wrench, make sure that the 10mm ground bolt is securely tightened to 78-121 inch/pounds.

#### NOTE:

View is from under-dash, looking toward the passenger compartment.

## 6 IMMOBILIZER INTERFACE CONNECTION

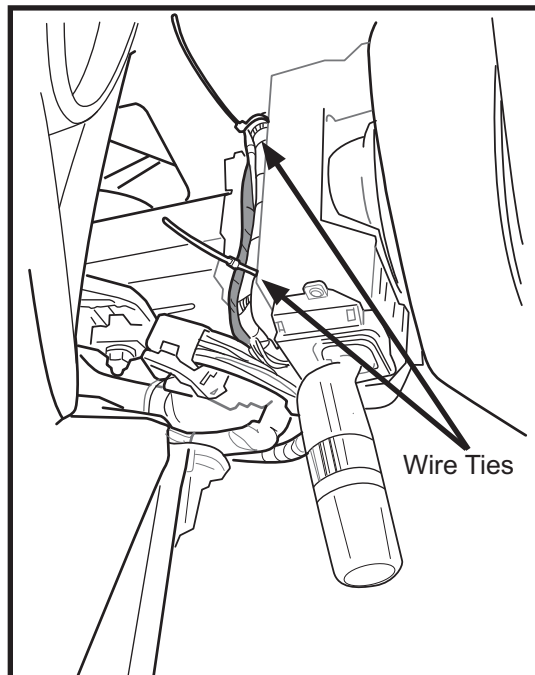


### Connecting the Remote Start harness immobilizer interface

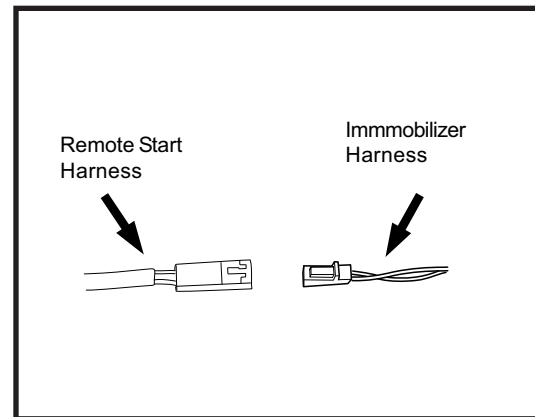
1. Route the remote start immobilizer interface harness with 4-pin male and female connectors over the large factory wire harness, along the left side of the steering column. Continue to route the wire harness over the steering column to the right side following the factory wire harness.
2. Locate the 4-pin immobilizer connector, on the right side of the steering column.
3. Disconnect the 4-pin immobilizer connector from the PATS antenna ring by pressing down the release tab and pulling outward.

**CAUTION:**  
Do not pull on the wires to disconnect connector.

4. Plug in the 4-pin male remote start immobilizer interface harness connector into the factory female PATS antenna ring connector.
5. Plug in the 4-pin female remote start immobilizer connector into the 4-pin male factory harness connector.
6. Secure the factory male connector and the remote start harness female connector to the existing factory harness with (1) supplied short wire tie.
7. Secure the remote start immobilizer harness to the existing factory harness, located on the top of the steering column with (2) supplied short wire ties. Trim off excess wire ties.

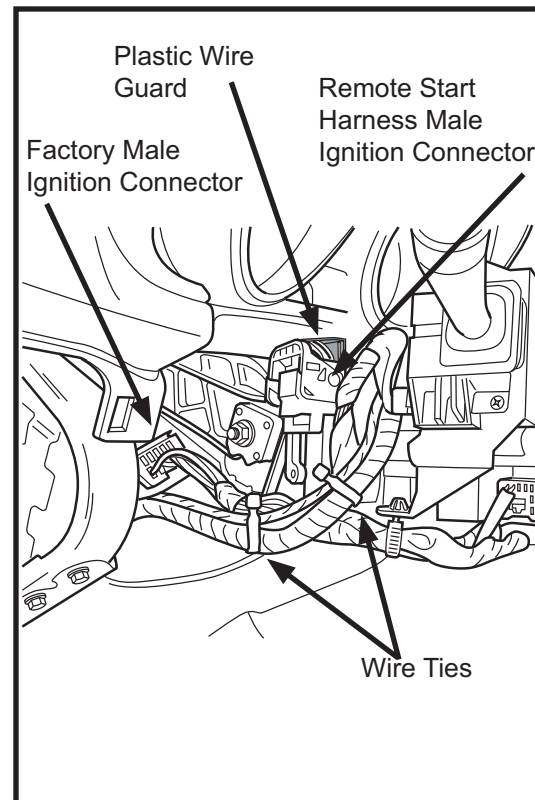


## 6 IMMOBILIZER INTERFACE CONNECTION; continued



8. Locate the 2-pin female connector attached to the remote start harness and the 2-pin male connector attached to the immobilizer interface harness. Plug the 2-pin male connector from the immobilizer interface harness into the 2-pin female connector from the remote start harness.

## 7 IGNITION SWITCH CONNECTION



### Connecting the Remote Start harness ignition connector

1. Route the remote start ignition harness with 8-pin male and female connectors over the large factory wire harness, along the left side of the steering column.
2. Locate the 8-pin ignition connector (C-01), on the left side of the steering column.
3. Release the locking lever and disconnect the 8-pin ignition connector by pulling outward.

**CAUTION:**  
Do not pull on the wires to disconnect connector.

4. Remove the plastic guard from the 8-pin ignition connector by pulling outward to disengage the retaining tabs.

## 7 IGNITION SWITCH CONNECTION; continued

- Plug in the 8-pin male remote start harness connector into the factory ignition switch and engage the locking lever.
- Carefully fold over the ignition wires and engage the plastic wire guard (previously removed in step 4) onto the remote start harness 8-pin ignition connector.
- Plug in the 8-pin female remote start harness connector into the 8-pin male factory ignition connector and engage the locking lever.

## 8 ALTERNATOR (TACHOMETER) CONNECTION

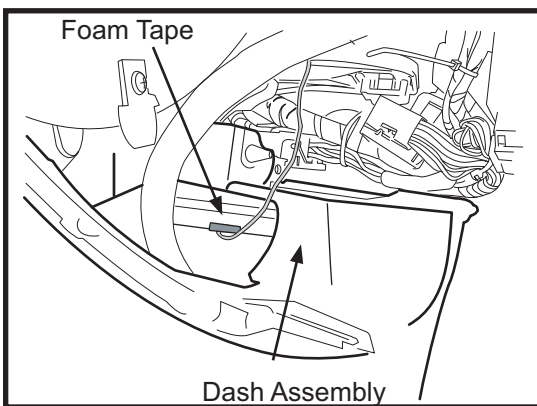
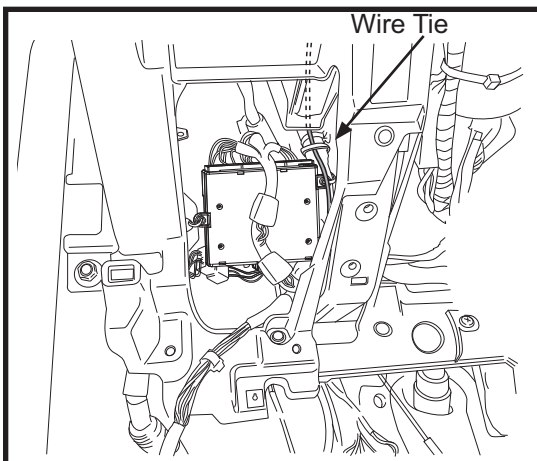
### Connecting the alternator (tachometer) wire

- Route the remote start VIOLET/WHITE wire with terminal up to the back of the meter.
- Secure the VIOLET/WHITE with terminal to the factory harness with (1) supplied, short wire tie. Trim off excess wire tie.
- Wrap the inner dash brace with (1) strip of supplied foam tape to protect the VIOLET/WHITE wire from sharp edges.

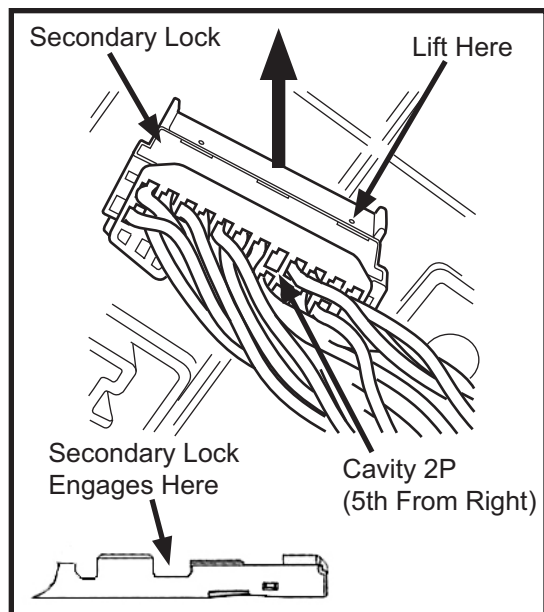
#### NOTE:

View is looking down onto the steering column from above.

- Locate the 24-pin connector that was plugged into the back of the meter.



## 8 ALTERNATOR (TACHOMETER) CONNECTION; continued



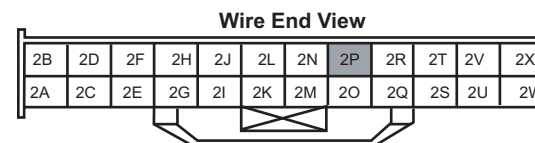
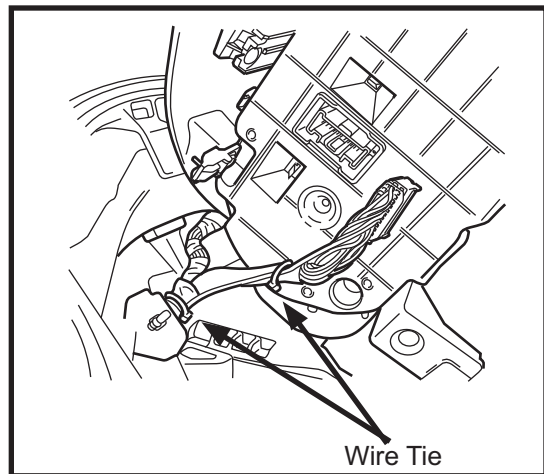
- Partially lift the secondary lock on the bottom of the 24-pin connector.
- Insert the VIOLET/WHITE wire (with terminal) into the connector cavity "2P".
- Reinstall the secondary lock and insert the connector back into the Meter.
- Secure the VIOLET/WHITE wire to the factory harness with (2) supplied wire ties. Trim off excess wire ties.
- Resecure the meter to the dash assembly using the (2) phillips screws previously removed.

#### NOTE:

In the event that cavity "2P" is already populated, refer page 2 of this document and connect to the wire in cavity "2P" following the IDC wire tap procedure.

#### CAUTION:

Extreme care must be taken to ensure that the proper cavity is populated. In the event that the wrong cavity is populated, it will be very difficult to remove the terminal.



VEHICLE'S ALTERNATOR  
WIRE

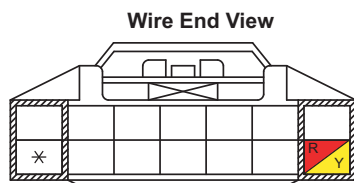
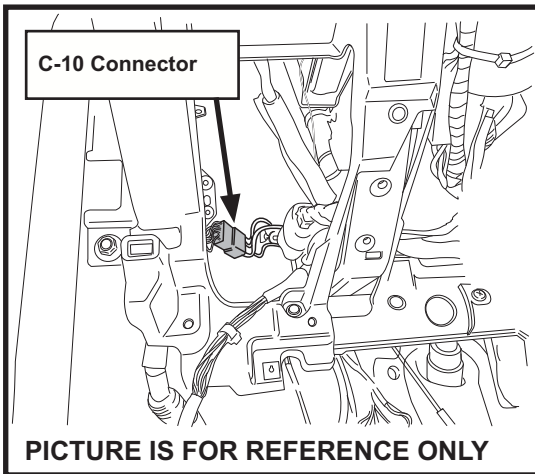
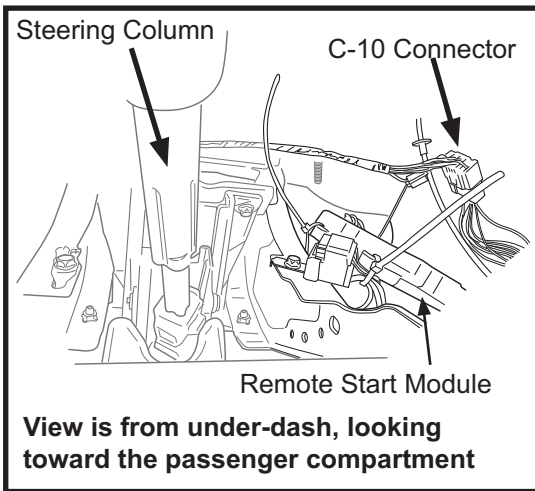
REMOTE START HARNESS  
WIRE

VACANT CAVITY "2P"

—— VIOLET/WHITE (With Terminal)



## 9 BRAKE CONNECTION



**VEHICLE'S BRAKE WIRE**

**RED/YELLOW**

**REMOTE START HARNESS WIRE**

**GREEN**

### Connecting the Remote Start harness brake wire

1. Locate the 14-pin C-10 (Rear Harness / Short Cord) connector in the driver's side kick panel area, attached to the vehicle dash wall, near the remote start mounting location.
2. If necessary, remove 1" - 2" of the electrical tape to expose the wiring.

**CAUTION:**  
Be extremely careful not to damage any of the wires.

3. Using (1) supplied IDC wire tap, connect the wires listed below and crimp the IDC wire tap in place using pliers. Ensure that a complete and secure connection is made.

**NOTE:**  
Connector pictured is male "Short Cord" side of the C-10 connector.

**NOTE:** Refer to Page 2 for IDC Wire Tap Procedure and Wire color code information.

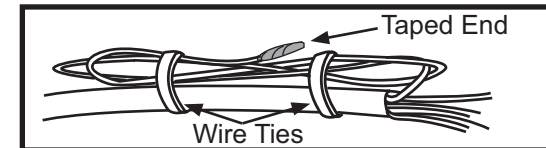
## 10 HARNESS ROUTING - BCM

### Routing the Remote Start harness to the BCM

1. Route the remote start harness BLACK/ORANGE, BLACK/YELLOW, BLUE, GRAY and BROWN/RED wires along the factory wiring harness, behind the radio and over to the Body Control Module located behind the glove box area.

#### NOTE:

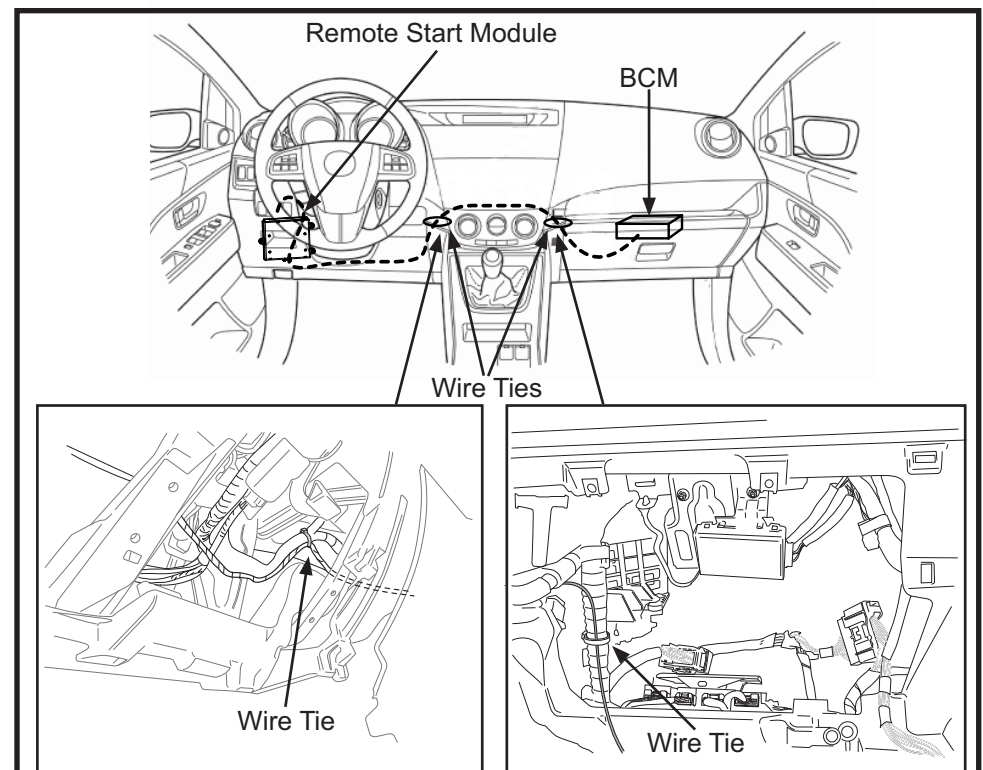
If remote start harness is equipped with BLACK/ORANGE wire labeled "Use When Adding Mazda Hood Switch", insulate the end of the wire with electrical tape to ensure no bare wire is exposed. Secure the BLACK/ORANGE wire to the remote start harness with (2) supplied, short wire ties. Trim off excess wire ties.



#### CAUTION:

Care must be taken to ensure that the harness is routed in a manner that avoids any sharp metal edges.

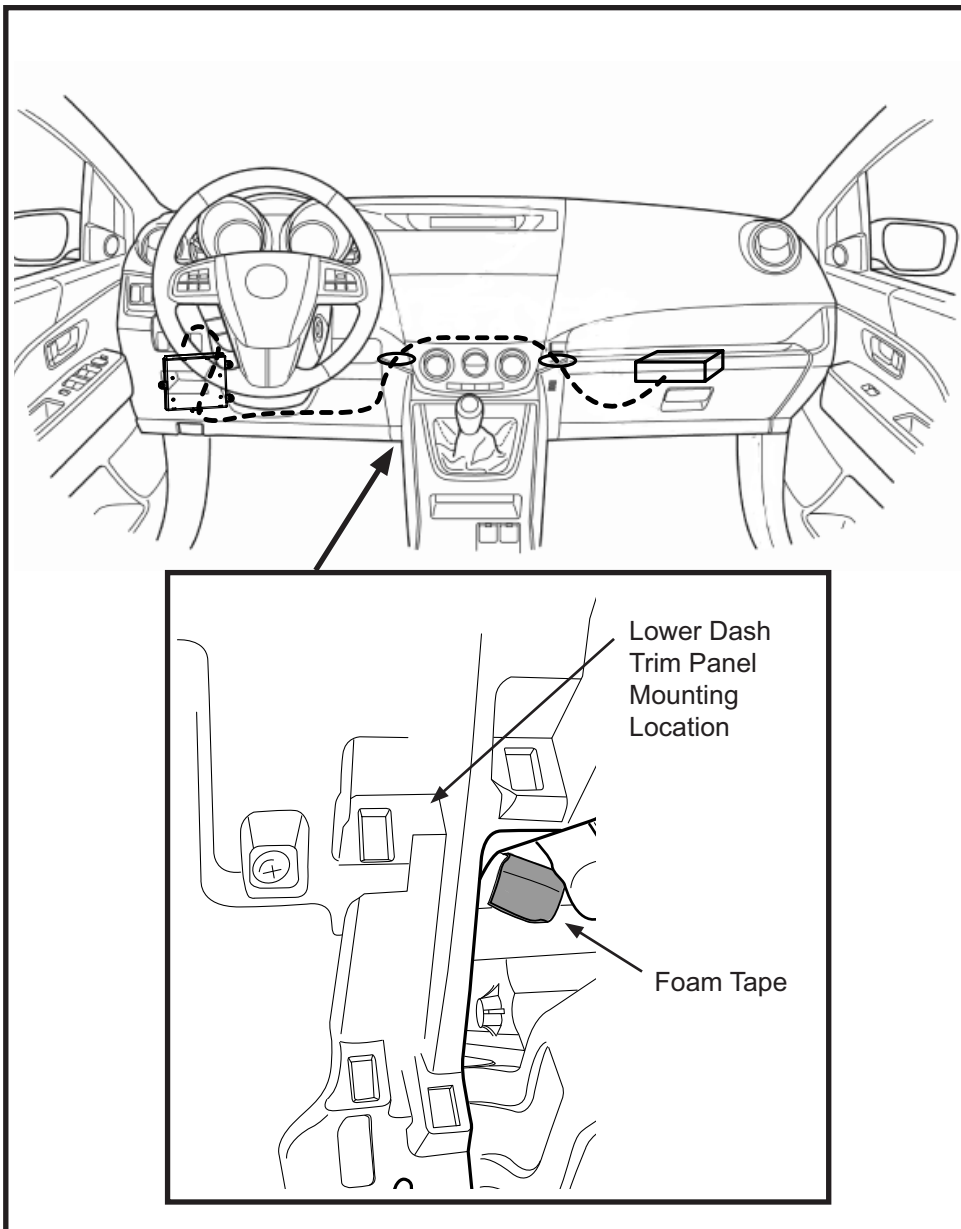
2. Secure the remote start wire harness to the existing factory harness with (2) supplied wire ties. Trim off excess wire ties.





## 10 HARNESS ROUTING - BCM; continued

3. Apply a 1/2 strip of provided foam tape to the metal dash brace, located on the left side of the center console assembly, to protect the remote start harness from rubbing on sharp edges.



## 11 PARKING LIGHT CONNECTION

### Connecting the Remote Start harness parking light wire

1. Locate the 24-pin 0940-101C connector on the right side of the BCM.

#### NOTE:

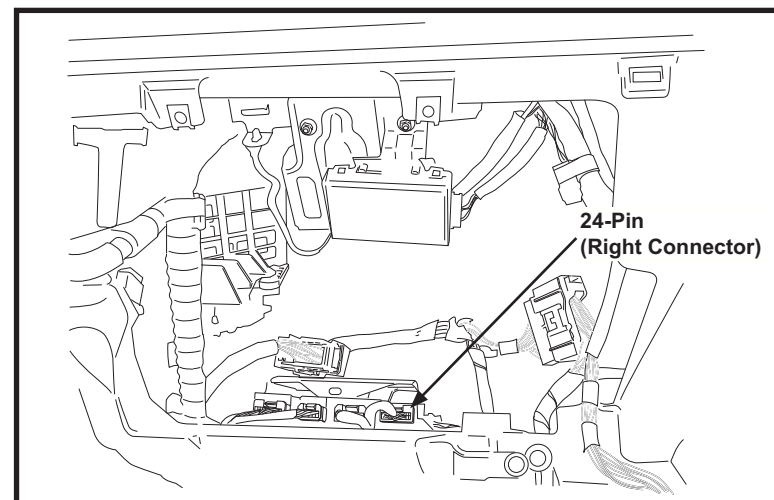
Disconnect connector from BCM to make the connection easier.

2. Using a razor knife, carefully cut back 1" - 2" of the electrical tape to expose the wiring.

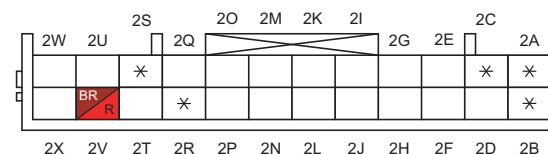
#### CAUTION:

Be extremely careful not to damage any of the wires.

3. Using (1) supplied IDC wire tap, connect the wires listed below and crimp the IDC wire tap in place using pliers. Ensure that a complete and secure connection is made.



Wire End View



VEHICLE'S PARKING LIGHT WIRE

BROWN/RED

REMOTE START HARNESS WIRE

BROWN/RED

NOTE: Refer to Page 2 for IDC Wire Tap Procedure and Wire color code information.

## 12 DOOR AJAR CONNECTION

### Connecting the Remote Start harness door ajar wire

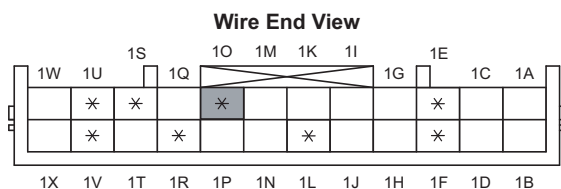
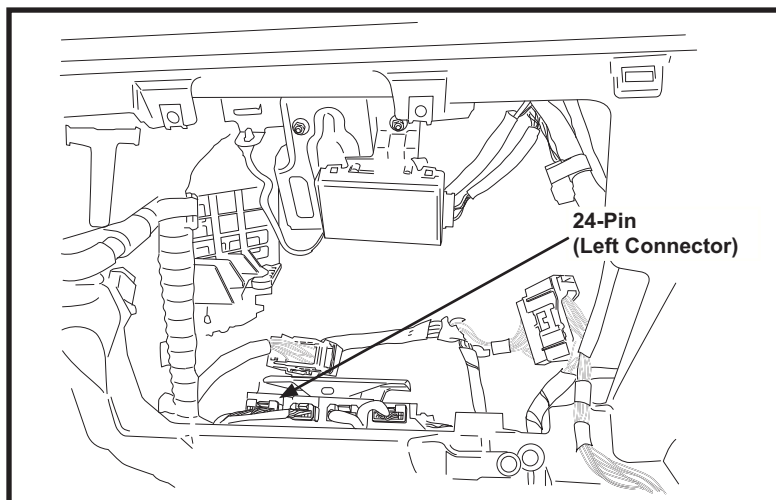
1. Locate and disengage the 24-pin 0940-101A connector on the left side of the BCM.
2. Partially lift the secondary lock on the bottom of the 24-pin connector.
3. Insert the BLACK/YELLOW wire (with terminal) into the connector cavity "10".
4. Reinstall the secondary lock and insert the connector back into the BCM.

#### NOTE:

In the event that cavity "10" is already populated, refer page 2 of this document and connect to the wire in cavity "10" following the IDC wire tap procedure.

#### CAUTION:

Extreme care must be taken to ensure that the proper cavity is populated. In the event that the wrong cavity is populated, it will be very difficult to remove the terminal.



VEHICLE'S DOOR AJAR  
WIRE

REMOTE START HARNESS  
WIRE

VACANT CAVITY "10"

—— BLACK/YELLOW

## 13 HOOD SWITCH CONNECTION

### Connecting the Remote Start harness hood switch wire

1. Locate the 24-pin 0940-101A connector on the left side of the BCM.

#### NOTE:

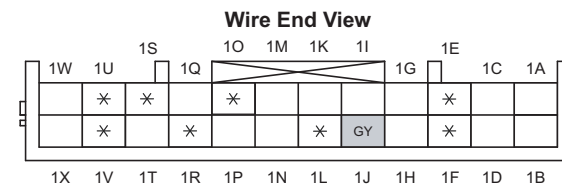
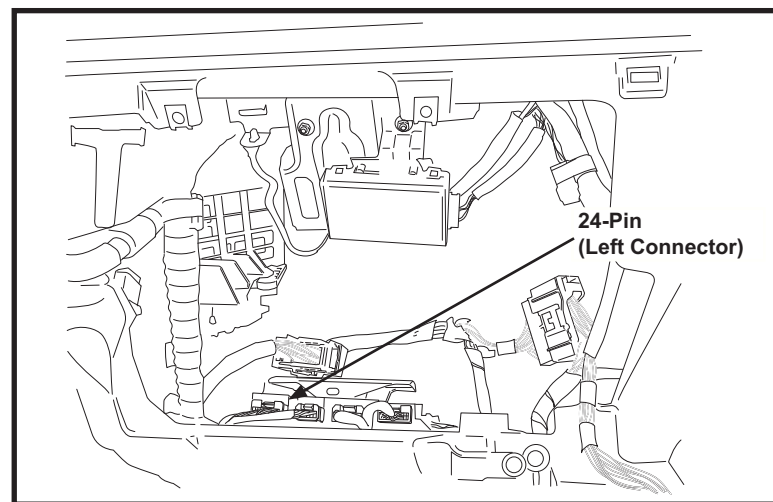
Disconnect connector from BCM to make the connection easier.

2. Using a razor knife, carefully cut back 1" - 2" of the electrical tape to expose the wiring.

#### CAUTION:

Be extremely careful not to damage any of the wires.

3. Using (1) supplied IDC wire tap, connect the wires listed below and crimp the IDC wire tap in place using pliers. Ensure that a complete and secure connection is made.



VEHICLE'S HOOD SWITCH

REMOTE START HARNESS

WIRE

WIRE

GRAY

GRAY

NOTE: Refer to Page 2 for IDC Wire Tap Procedure and Wire color code information.

## 14 HORN CONNECTION

### Connecting the Remote Start harness horn wire

1. Locate the 24-pin 0940-101C connector on the right side of the BCM.

#### NOTE:

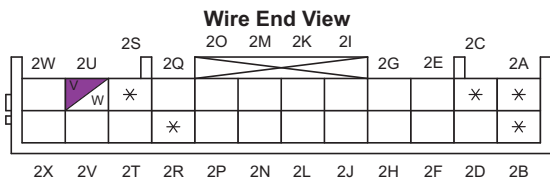
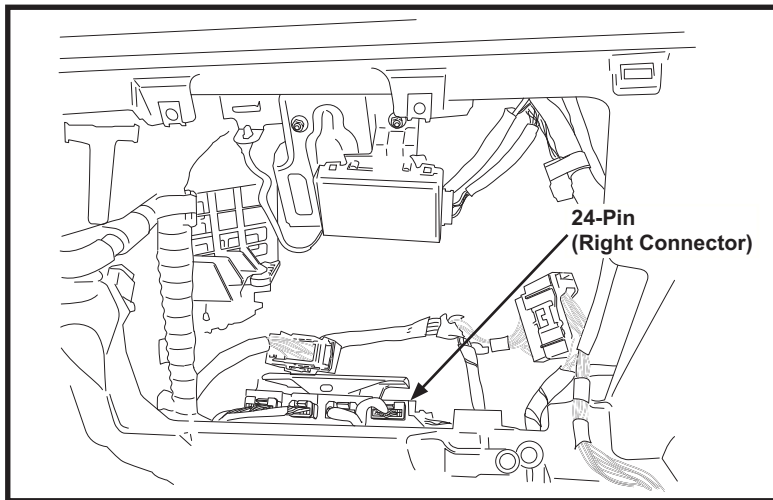
Disconnect connector from BCM to make the connection easier.

2. Using a razor knife, carefully cut back 1" - 2" of the electrical tape to expose the wiring.

#### CAUTION:

Be extremely careful not to damage any of the wires.

3. Using (1) supplied IDC wire tap, connect the wires listed below and crimp the IDC wire tap in place using pliers. Ensure that a complete and secure connection is made.



VEHICLE'S HORN WIRE

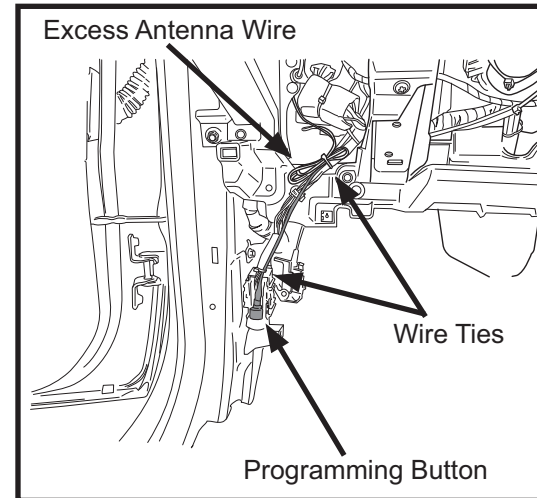
PURPLE/WHITE

REMOTE START HARNESS WIRE

BLUE

NOTE: Refer to Page 2 for IDC Wire Tap Procedure and Wire color code information.

## 15 PROGRAMMING BUTTON MOUNTING



### Mounting the Remote Start programming button

1. Connect the Programming Button to the corresponding remote start module connector (if disconnected).
2. Secure the Programming Button and any excess antenna harness to the existing factory harness located in the driver's kick panel area, with (2) supplied, short wire ties. Trim off excess wire ties.

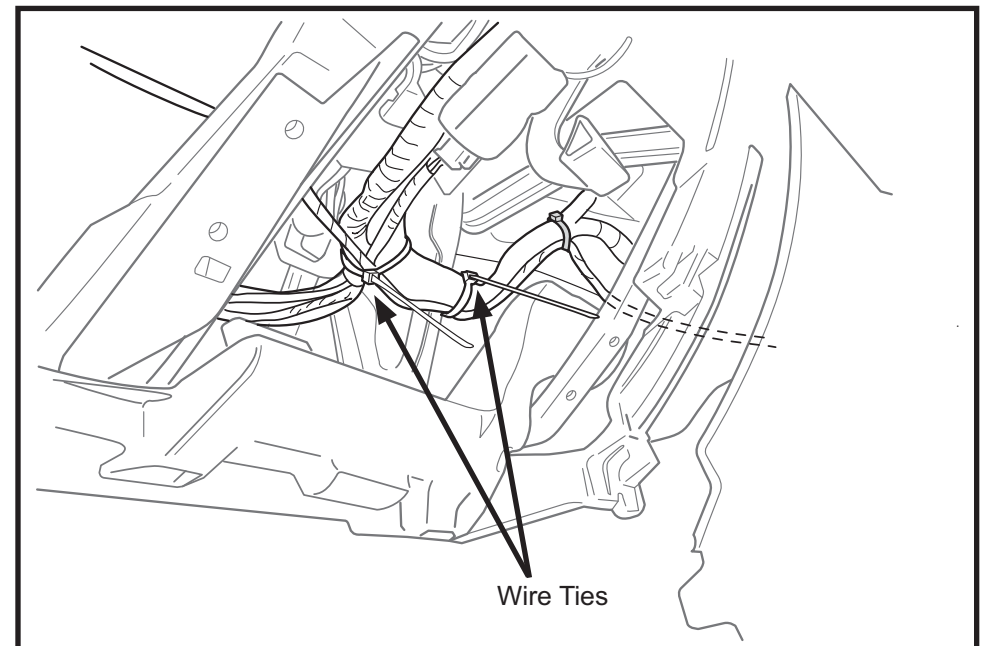
#### NOTE:

Ensure the Programming Button is secured to the remote start harness in a manner that allows for future serviceability.

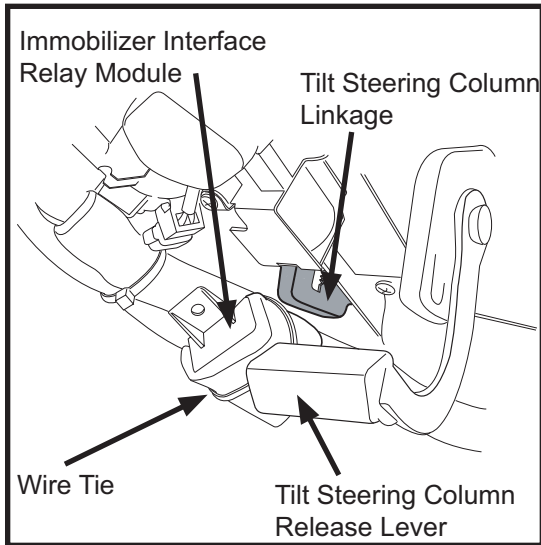
## 16 WIRE HARNESS SECURING

### Securing the remote start harness

1. Secure the remote start harness to the existing factory harness with (2) supplied, large wire ties. Trim off excess wire ties.



## 16 WIRE HARNESS SECURING; continued



2. Secure the remote start harness immobilizer interface relay to the existing factory harness using (1) supplied, long wire tie. Trim off excess wire tie.

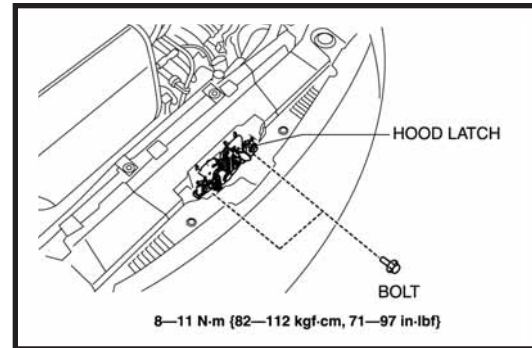
**Caution:** It is extremely important to secure the Immobilizer Interface Relay in a position that will allow the tilt / telescoping steering wheel to move freely and **NOT** contact the immobilizer interface relay and still allow for re-assembly of the steering column shroud.

Functionality (In & Out / Up & Down) of the tilt / telescoping steering wheel must be tested a minimum of 5 times. If the tilt / telescoping steering wheel assembly contacts the immobilizer interface relay, reposition the immobilizer interface relay and retest.

## 17 HOOD SWITCH INSTALLATION

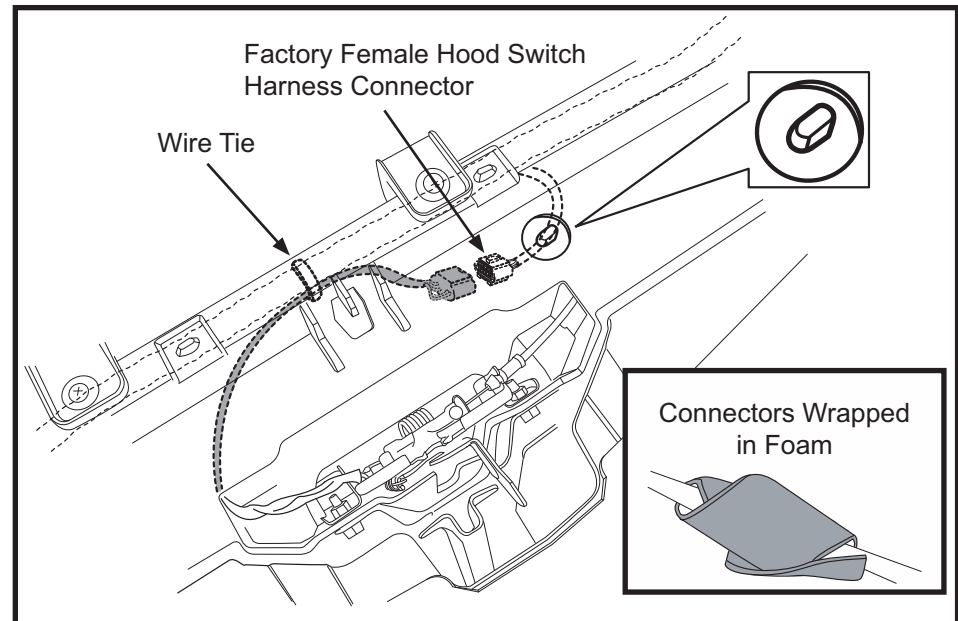
### NOTE:

This step is not necessary on GT models.



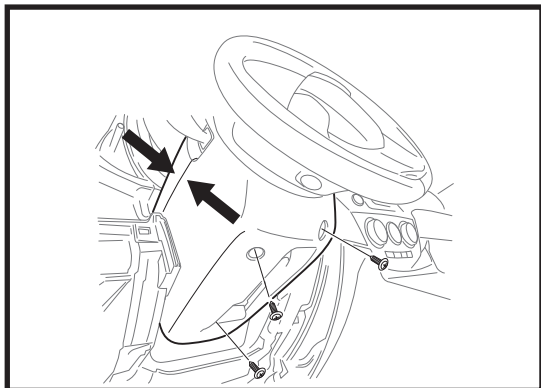
### Hood latch switch installation

1. Install the factory hood latch switch, part# C901-V7-629A per the Mazda service procedures.
2. Locate and remove the factory female hood switch harness connector, mounted to the bottom of the upper radiator support cover.
3. From the top, squeeze the plastic retainer ends and push down to remove from the mounting location.



4. Connect the hood latch switch connector to the mating connector on the factory hood switch harness.
5. Wrap the connectors with supplied, foam tape to prevent rattles.
6. Re-secure the factory female hood switch harness connector, to the bottom of the upper radiator support cover.
7. Using (1) supplied, short wire tie, secure the hood switch harness to the large factory harness located near the upper radiator support. Trim off excess wire tie.

## 18 VEHICLE RE-ASSEMBLY

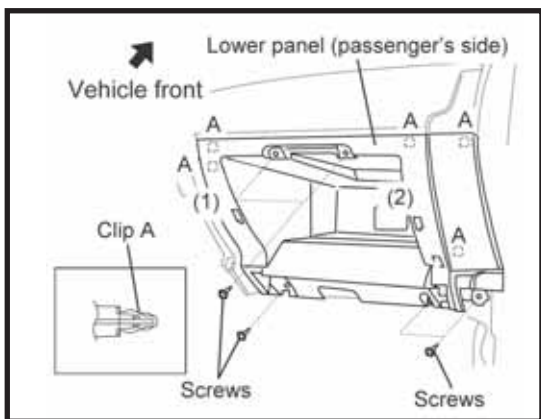


### Steering column cover re-assembly

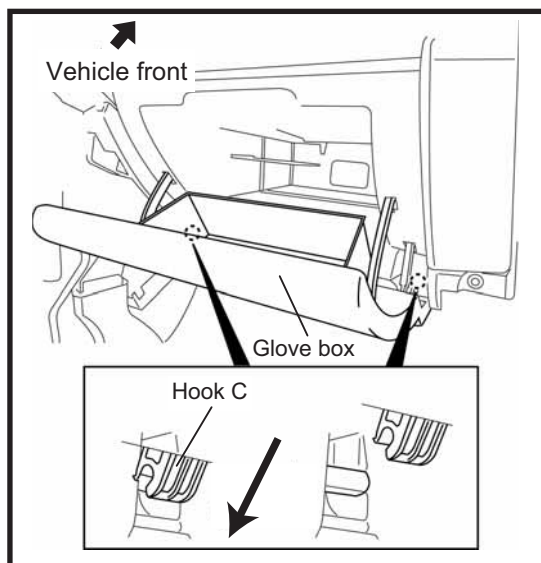
1. Carefully snap the steering column cover halves back together.
2. Re-install the (3) phillips screws in the lower steering column cover.

### Glove box re-assembly

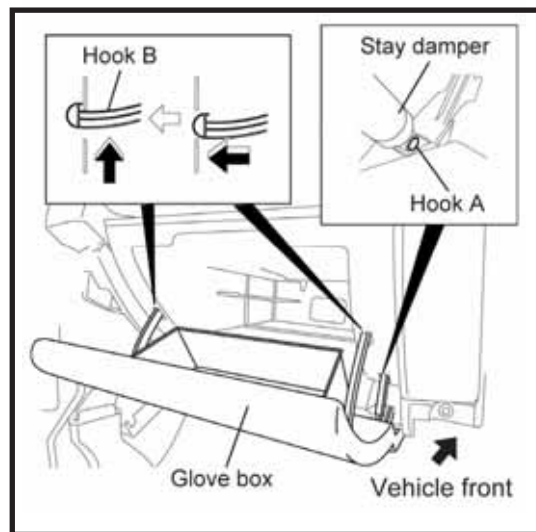
1. Place the glove box insert into the dash opening.
2. Secure the glove box insert to the dash assembly by re-engaging the (5) retaining clips and (3) phillips screws.



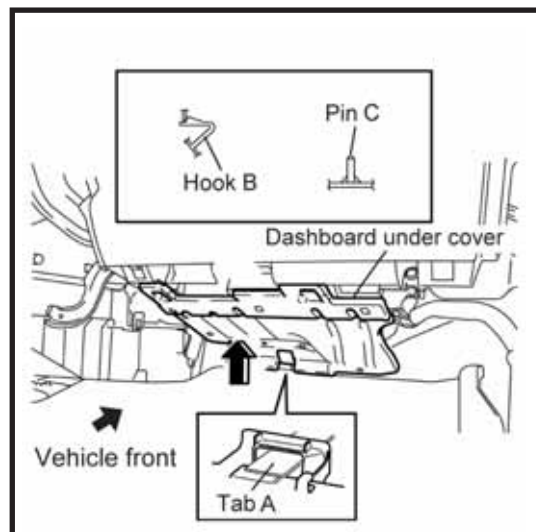
3. Re-attach the glove box door to the dash assembly, by pushing down to engage the hooks (C).



## 18 VEHICLE RE-ASSEMBLY; continued



4. Re-attach the glove box door-stay damper onto hook (A).
5. Re-engage the hooks (B) by closing the glove box door.

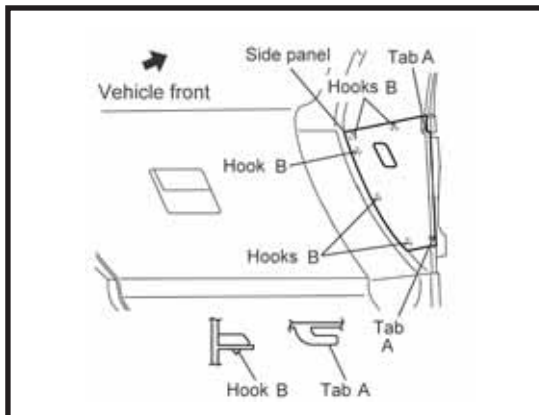


### Dashboard under cover re-assembly

1. Place the dashboard under cover onto to tab (A).
2. Push the dashboard under cover up to engage the hooks (B) and pins (C).

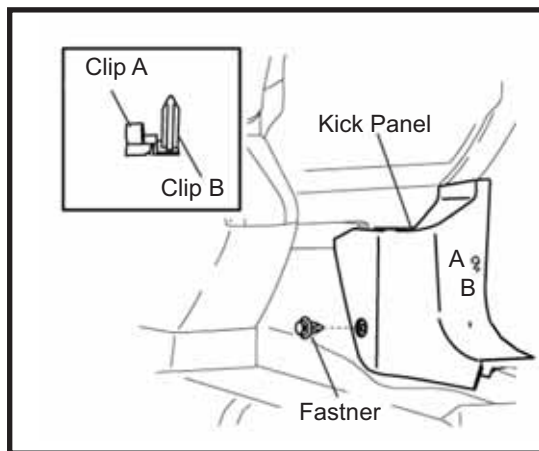


## 18 VEHICLE RE-ASSEMBLY; continued



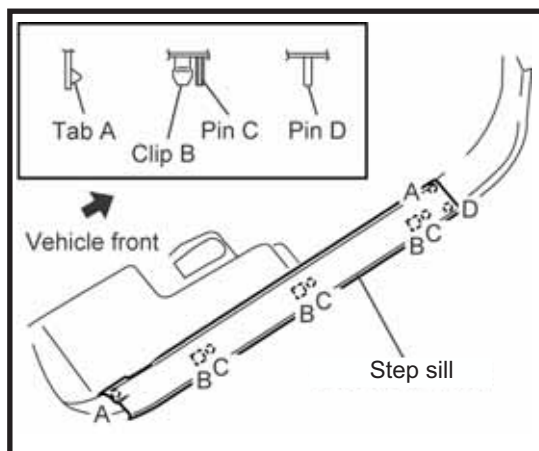
### Side panel re-assembly

1. Reinstall the side panel by engaging the (2) clips (A) and the (5) hooks (B).



### Passenger's side kick panel re-assembly

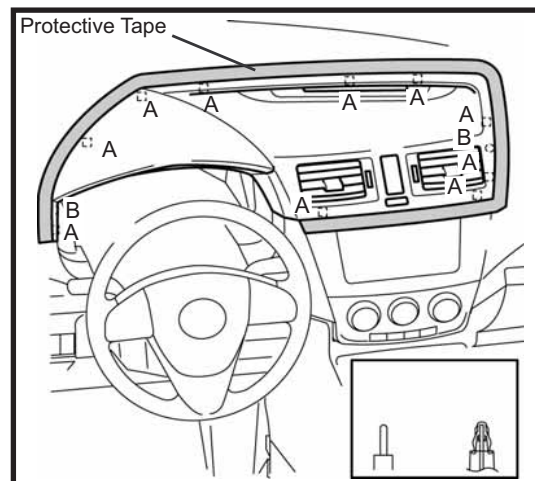
1. Re-install the passenger's kick panel by engaging the (1) clip "A", (1) pin "B" and re-inserting the plastic fastner.



### Passenger's side door step sill re-assembly

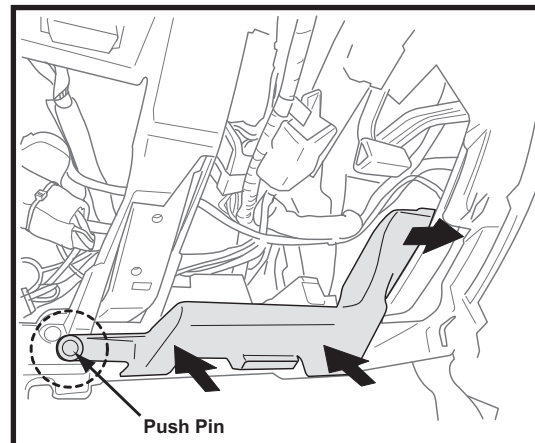
1. Re-install the passenger's door step sill trim panel by engaging the (2) tabs "A", the (3) clips "B" and the (4) pins "C" & "D".

## 18 VEHICLE RE-ASSEMBLY; continued



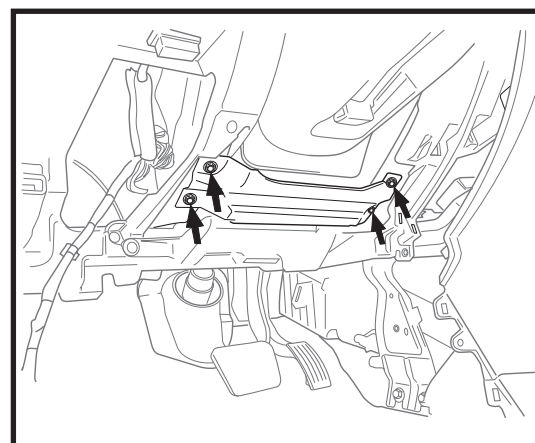
### Switch panel re-assembly

1. Reconnect the hazard switch connector and Bluetooth connector (if equipped).
2. Secure the switch panel assembly to the dash assembly by engaging the (10) clips (A) and (2) pins (B).
3. Remove the protective tape that was applied to the dash assembly.



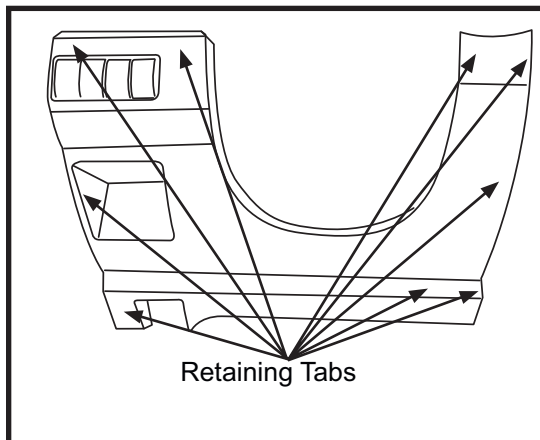
### Driver's side lower HVAC duct re-assembly

1. Re-install the lower HVAC duct by attaching the right side of the duct to the center console HVAC duct.
2. Secure the lower HVAC duct to the dash assembly by engaging the plastic push pin.



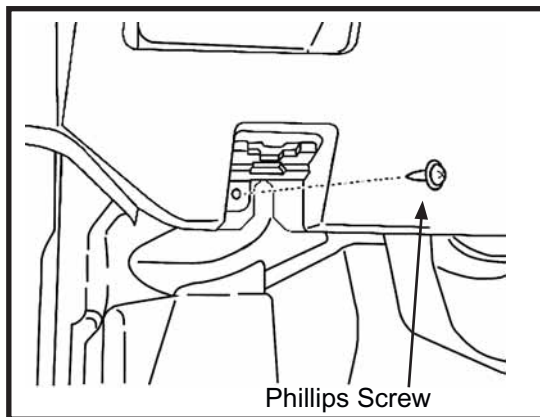
### Dash knee bolster re-assembly

1. Secure the metal knee bolster to the dash assembly with the (4) 10mm bolts previously removed.

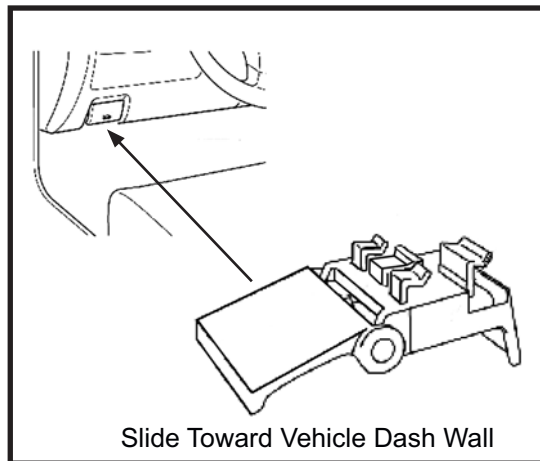


### Driver's side lower dash trim panel re-assembly

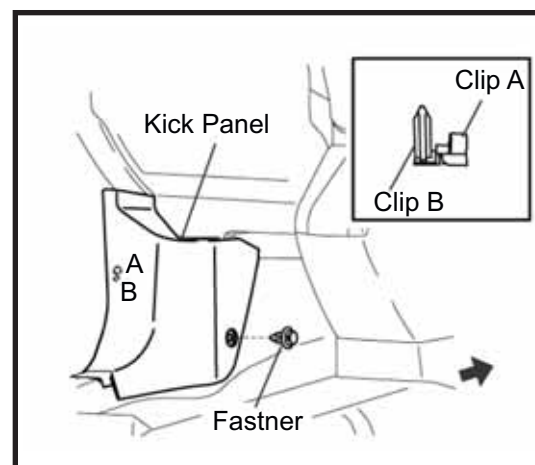
1. Connect any connectors that were disconnected during the vehicle preparation process.
2. Secure the lower dash trim panel to the dash assembly by engaging the (9) retaining clips.



3. Re-install the phillips screw located in the hood release lever mounting location.

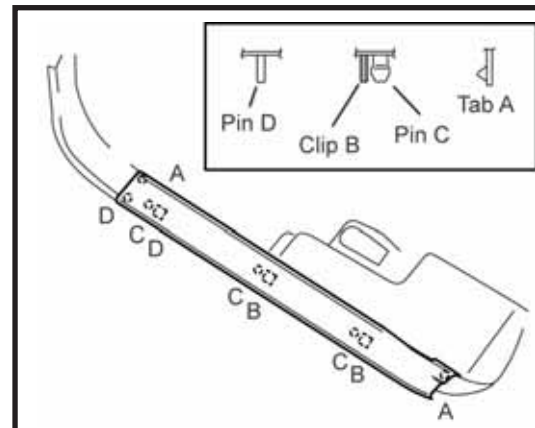


4. Re-install the hood release lever by engaging the locking tabs by sliding the hood release lever toward the vehicle dash wall.



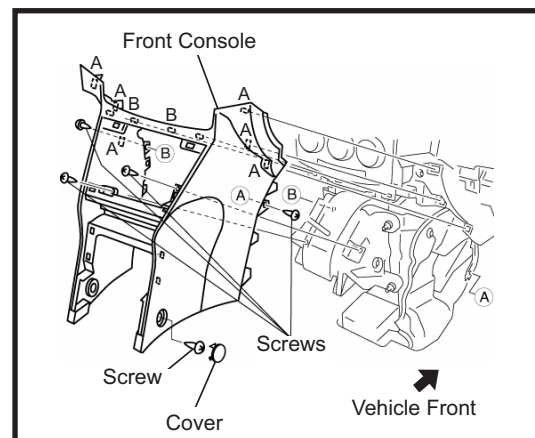
### Driver's side kick panel re-assembly

1. Re-install the driver's kick panel by engaging the (1) clip "A", (1) pin "B" and re-inserting the plastic fastner.



### Driver's side door step sill re-assembly

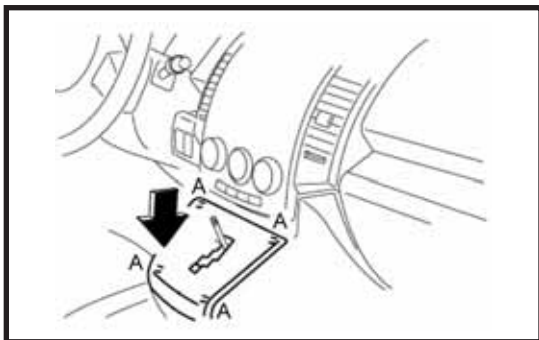
1. Re-install the driver's door step sill trim panel by engaging the (2) tabs "A", the (3) clips "B" and the (4) pins "C" & "D".



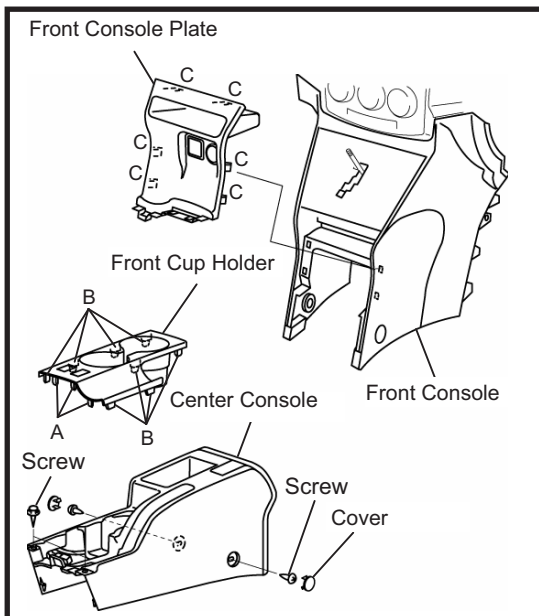
### Front console re-assembly

1. Secure the front console assembly to the dash assembly by engaging the (8) clips (A) and (6) phillips screws previously removed.

## 18 VEHICLE RE-ASSEMBLY; continued



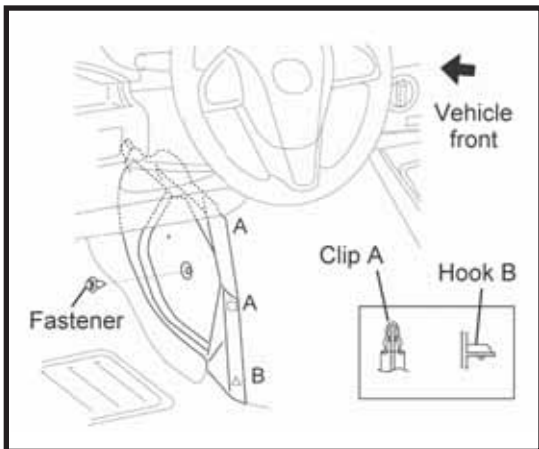
- Secure the indicator panel to the front console assembly by engaging the (4) clips (A).
- Reattach the selector lever knob.



- Resecure the center console assembly using the (4) phillips screws (2 in the front and 2 in the rear) previously removed.
- Reconnect any connectors that were disconnected from the front console plate assembly.
- Secure the front console plate assembly to the front console assembly by engaging the (6) clips (C).
- Reconnect any connectors that were disconnected from the front cup holder.
- Resecure the front cup holder to the center console by engaging the (6) tabs (A & B).

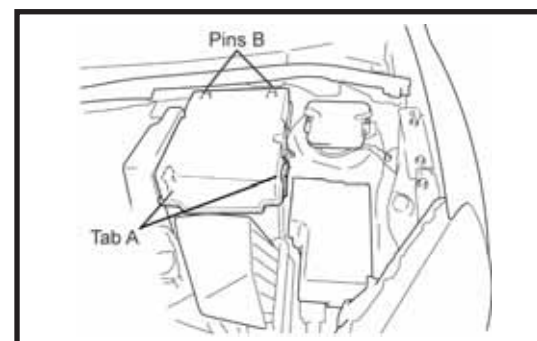
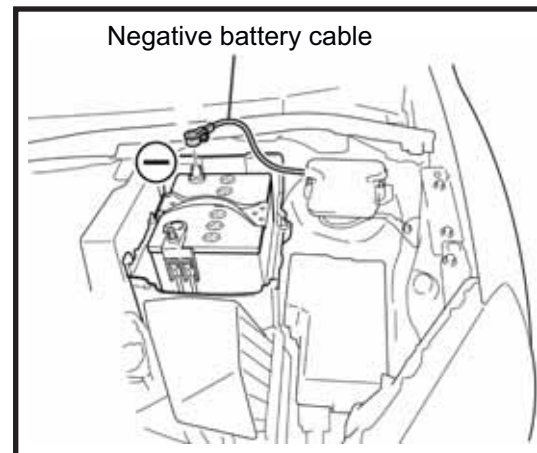
### Side wall (Driver's and Passenger's) re-assembly

- Re-install the side wall by inserting the guide located at the front of the trim panel.
- Engage the (2) clips "A", the (1) hook "B" and the plastic fastener.



## 19 SYSTEM POWER-UP

- Verify that all connections are secure as per the installation instructions.
- Ensure that the 15 amp Room fuse is properly installed in the dash fuse panel.
- Turn the ignition key to the RUN position.
- Reconnect the negative battery terminal.
- Turn the ignition key to the OFF position.



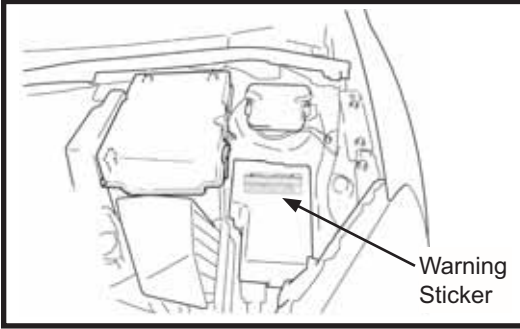
### Battery cable re-assembly

- Re-install the negative battery.

### Battery cover re-assembly

- Re-install the battery cover by engaging the (2) tabs "A" and the (2) pins "B".

## 20 UNDERHOOD WARNING LABEL MOUNTING



### Apply the under hood warning label

1. Open the hood and locate the under-hood fuse box.
2. Using an alcohol pad, clean the top of the under-hood fuse box.
3. Remove the backing on the underhood label and mount in place.

## 21 TRANSMITTER PROGRAMMING

**NOTE:** The transmitters that were shipped with the remote engine start system are pre-programmed to the DNA card. The following steps are only necessary if you need to program additional transmitters.

1. Turn the ignition "ON".
2. Press and hold the programming button.

*After 10 seconds the horn will beep 3 times, indicating that the system is now in transmitter learn mode.*

3. Release the programming button.
4. Press the START button once on each additional transmitter to be programmed.

*The horn will beep 1 time to indicate that the transmitter has been learned.*

**NOTE:** Up to 8 transmitters can be programmed to the DNA card.

5. Turn the ignition to the "OFF" position.

## 22 IMMOBILIZER INTERFACE PROGRAMMING

**Please read this entire procedure prior to attempting on the vehicle.**

**Two programmed keys are required for this step and the engine hood and doors must be closed (dome light must be off).**

1. Sitting in the driver's seat, be prepared to press the brake pedal to shut down the remote start system.
2. Using the first key, turn the ignition ON, wait for the THEFT light to turn off, then turn the ignition off and remove the key from the ignition switch.
3. Using the second key, turn the ignition ON, wait for the THEFT light to turn off, then turn the ignition off and remove the key from the ignition switch.
4. Activate the remote start function by pressing the START button twice, within 5 seconds.

*The system should flash the parking lights and chirp the horn one time, pause for 4 seconds and start the engine. If the engine fails to start and the THEFT light is flashing rapidly, see the Troubleshooting Guide.*

5. After the engine has started, press the brake pedal to shut down the engine. The immobilizer interface is now programmed.
6. Attach the new remote engine start transmitters to the keys.



**Car Find**

Press and hold START button - Horn should beep five times and the parking lights should flash five times.

**Remote Engine Start Functions**

1. **Remote Engine Start** - Make sure the key is removed from the ignition switch, all doors, hood and hatch are closed (dome light is off). Press the START button twice within 3 seconds. The parking lights should flash one time, the horn should beep once, then the vehicle should crank and start. Once started, the parking lights will turn on and stay on, signifying the vehicle is running. Verify that the battery indicator is not illuminated.
2. **Door Ajar Switch** - Open any door and enter the vehicle. The vehicle should shut off. Activate the remote engine start. The horn should beep (6) times, signifying that the door is open and the vehicle will not start.
3. **Brake Pedal Safety** - Close vehicle door and activate the remote engine start. After the vehicle started, press the brake pedal. The vehicle should shut off.
4. **Hood Safety Switch** - Open the engine hood and activate the remote engine start. The horn should beep (7) times signifying that the hood safety switch is activated and the vehicle will not start.

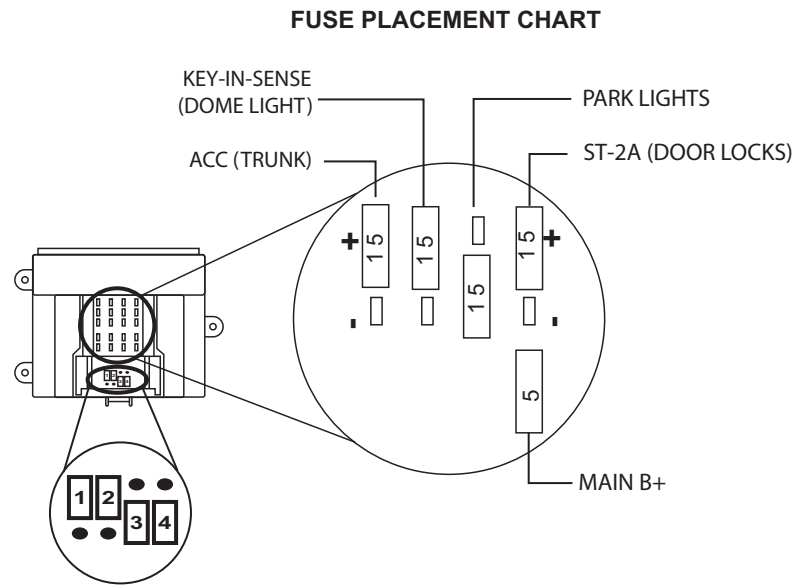
**NOTE: If any of the above functions do not perform as directed, see the Troubleshooting Guide.**

Functional testing is now complete.

**Note:** In order to fully understand the functionality of the remote start system, it is advisable to review the owner's manual before proceeding with the troubleshooting process.

1. Vehicle starts and honks horn (3) times after starting - *No tachometer connection.*
  - a. Verify that the correct remote start harness wire is connected to the correct cavity at the meter.
2. Ignition turns on, then the horn honks (2) times and the vehicle does not remote start - *Key-In-Sense circuit activated.*
  - a. Remove the key from the ignition switch.
  - b. Ensure that the ignition switch connection was made correctly, verify that the connectors are seated properly.
  - c. Verify that the Key-In-Sense fuse is good and in the correct position.
3. Horn honks (2) times and the vehicle does not remote start - *Safety input activated.*
  - a. Ensure brake pedal is not being pressed.
  - b. Verify that the correct remote start harness wire is connected to the correct vehicle brake wire and that the connection is good.
4. Horn honks (3) times and the vehicle does not remote start - *Service/Valet Mode engaged.*
  - a. Disengage the Service/Valet Mode (See Owner's Manual).
5. Horn honks (6) times and the vehicle does not remote start - *Door or hatch is open.*
  - a. Ensure all doors are closed and the dome light is off.
  - b. Ensure steering wheel is locked. If not, turn ignition on & off and open & close the driver's door to reset the steering wheel lock.
  - c. Ensure the hatch is closed.
6. Horn honks (7) times and the vehicle does not remote start - *Hood is open.*
  - a. Ensure hood is closed and latched.
  - b. Verify that the correct remote start harness wire is connected to the correct vehicle hood switch wire and that the connection is good.
7. Ignition turns on, Theft indicator is flashing and the vehicle does not remote start - *Immobilizer Interface issue.*
  - a. Ensure 3-pin connector is engaged into the remote start DNA card properly.
  - b. Ensure Immobilizer Interface harness is connected properly.
  - c. Re-program immobilizer interface.





1. After reassembling the vehicle parts, check for any dirt and clean if necessary.
2. After completing the installation, refer to the vehicle Owner's Manual for instructions on how to reset the clock and preset radio stations.
3. **CAUTION: Disconnecting the battery may cause DSC indicator light to become inoperable. (The DSC OFF indicator light is illuminated).**

Perform the following procedure:

- a. Start the vehicle.
- b. Turn the steering wheel completely to the right and then completely to the left.
- c. Verify that the DSC OFF indicator light turns off.
- d. Turn the ignition OFF and then turn ON again.
- e. Verify that the DSC OFF indicator light turns off.

# 27 FINAL INSPECTION

Inspection Parts	Inspection Items (O)			
	Clearance / Fit	Scratches / Dirt	Installation / Tightening / Engagement	Operation Check
Negative battery terminal and battery cover (if equipped) / Warning Label Applied	O	O	O	O
Driver side scuff panel	O	O	O	
Driver side door seal	O	O	O	
Driver side kick panel	O	O	O	
Driver side A pillar trim panel	O	O	O	
Driver side lower dash panel	O	O	O	
Steering column cover	O	O	O	
Instrument cluster and trim	O	O	O	
Passenger side scuff panel	O	O	O	
Passenger side kick panel	O	O	O	
Glove box assembly	O	O	O	
Center console assembly	O	O	O	O
Programming button installed	O	O	O	O
Remote Start Features:				
- car find				*1 O
- remote start / stop				*2 O
- brake pedal safety				*3 O
- door ajar safety				*4 O
- hood switch safety				*5 O
User Guide and transmitters			*6 O	

**O: Applicable**

**\*1: Horn beeps and parking lights flash five times.**

**\*2: Vehicle remote starts successfully (no dash lights) and vehicle shuts off.**

**\*3: Pressing brake pedal shuts off the remote start.**

**\*4: Opening any door shuts off remote start operation.**

**\*5: With engine hood raised, vehicle will not remote start.**

**\*6: In vehicle glove box (Port Installations only).**

Date:					
Vehicle:					
VIN					
Approved		Checked		Person in charge	