

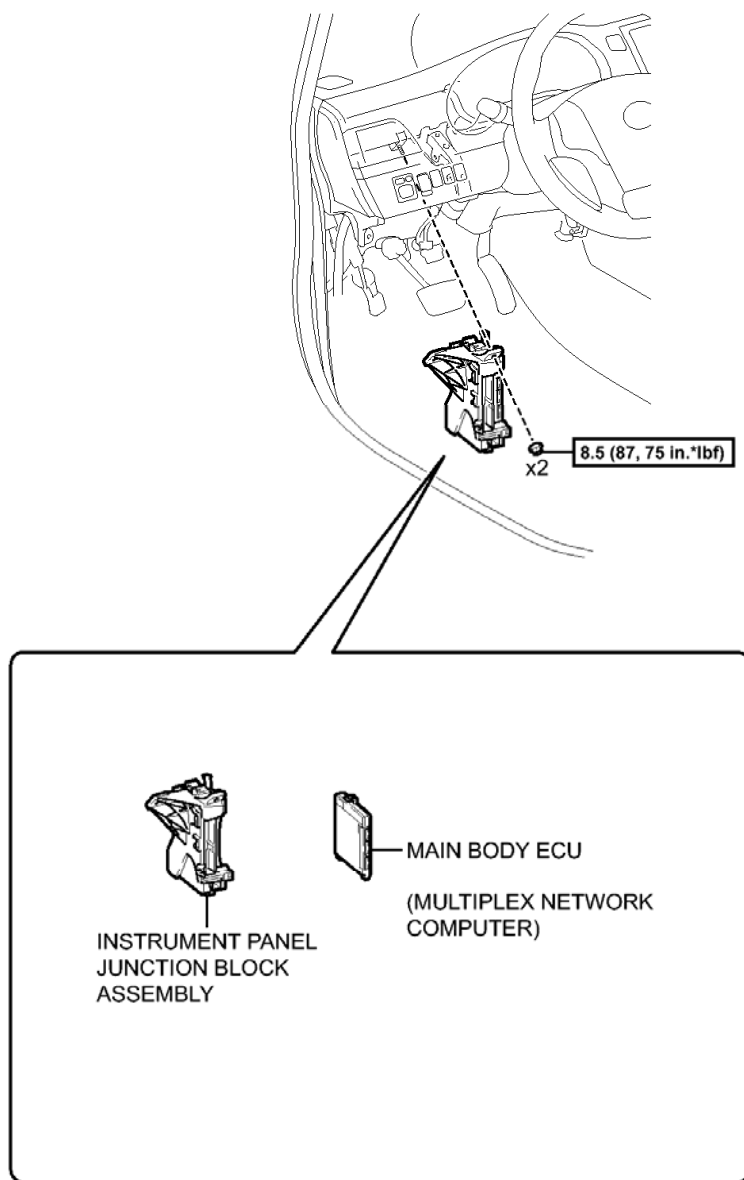
ELECTRICAL

Power Distribution System (Service Information) - Sienna

MAIN BODY ECU

COMPONENTS

ILLUSTRATION



[N*m (kgf*cm, ft.*lbf)]: Specified torque

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Fig. 1: Main Body ECU Replacement Components Location With Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

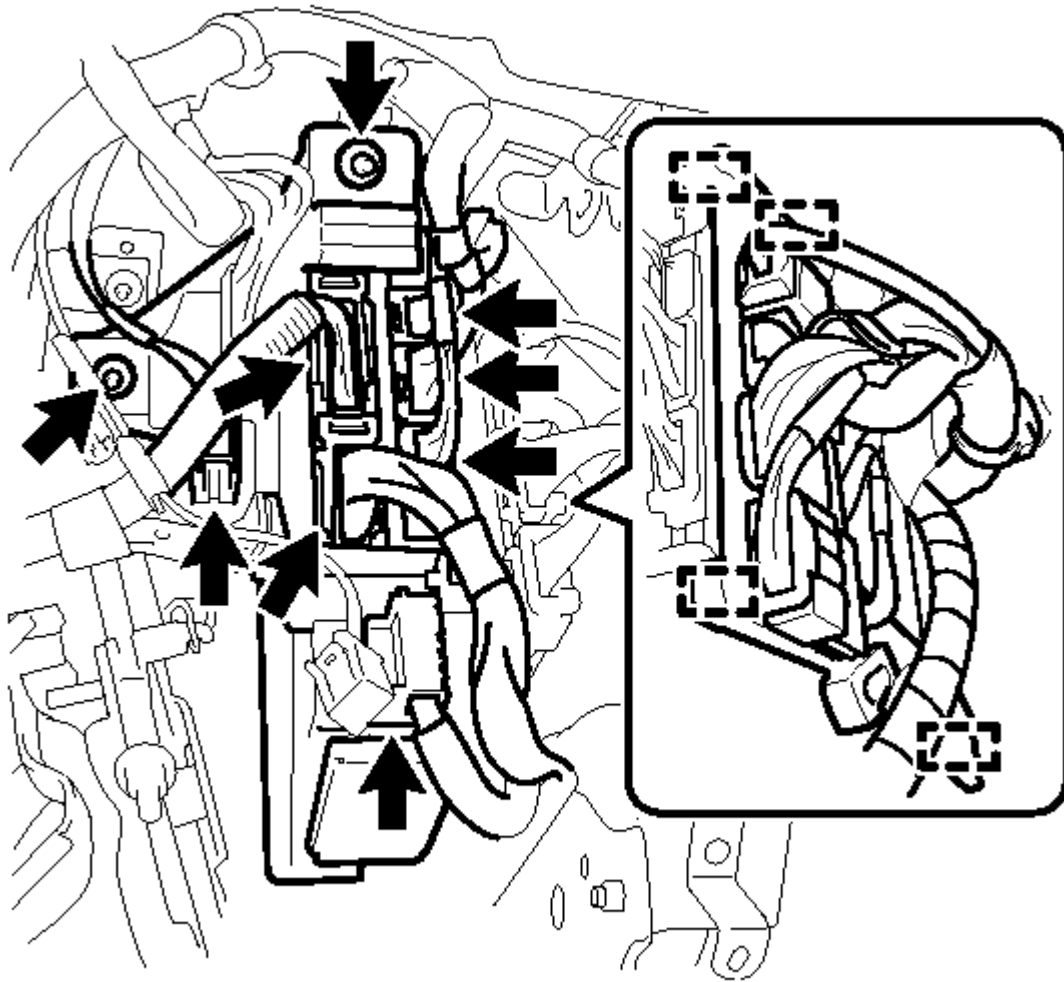
REMOVAL

REMOVAL

1. REMOVE KNEE AIRBAG ASSEMBLY

Refer to **REMOVAL**

2. REMOVE INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

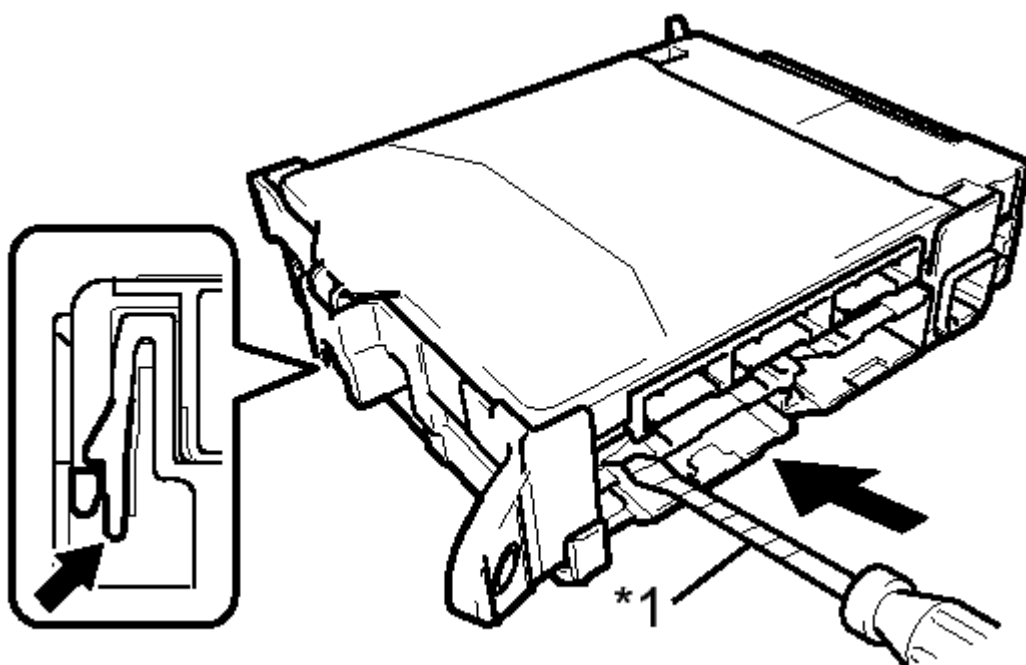


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Fig. 2: Removing Instrument Panel Junction Block Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disconnect the connectors on the front side.
- b. Remove the 2 nuts.
- c. Disengage the 4 guides and remove the junction connector.
- d. Disconnect the connectors on the back side, and then remove the instrument panel junction block.

3. REMOVE MAIN BODY ECU



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Fig. 3: Identifying Main Body ECU Lock On Junction Block Side

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

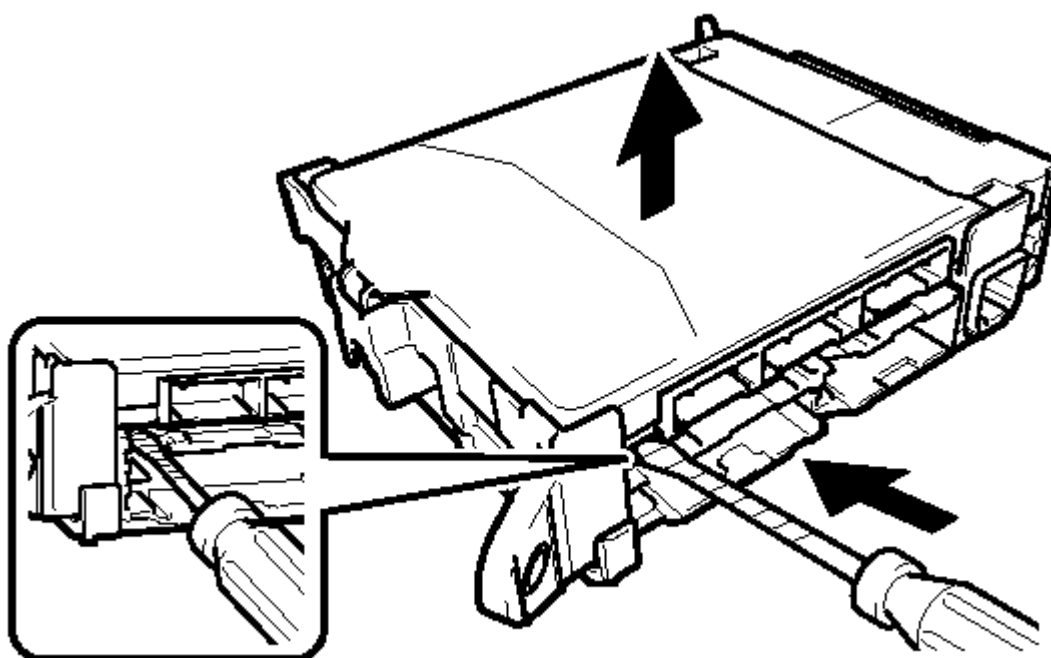
- a. Release the lock on the junction block side.
- b. While pressing the lock on the junction block side, insert a screwdriver with its tip wrapped in protective tape between the main body ECU and the junction block.

TEXT IN ILLUSTRATION

*1	Protective Tape
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NOTE: Use a thin-blade screwdriver with a diameter of 5.0 to 6.3 mm (0.197 to 0.248 in.), and with a length of 90 mm or more.

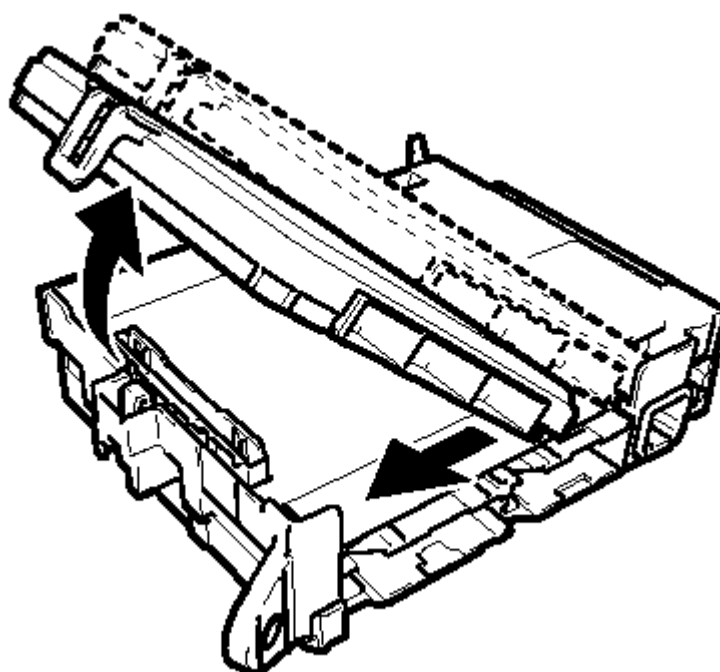
- c. Do not pry the inserted screwdriver. Lift up the main body ECU to the point where the lock releases.



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Fig. 4: Lifting Main Body ECU Without Prying Screwdriver
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Remove the main body ECU by pulling it out from the junction block.



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Fig. 5: Removing Main Body ECU
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

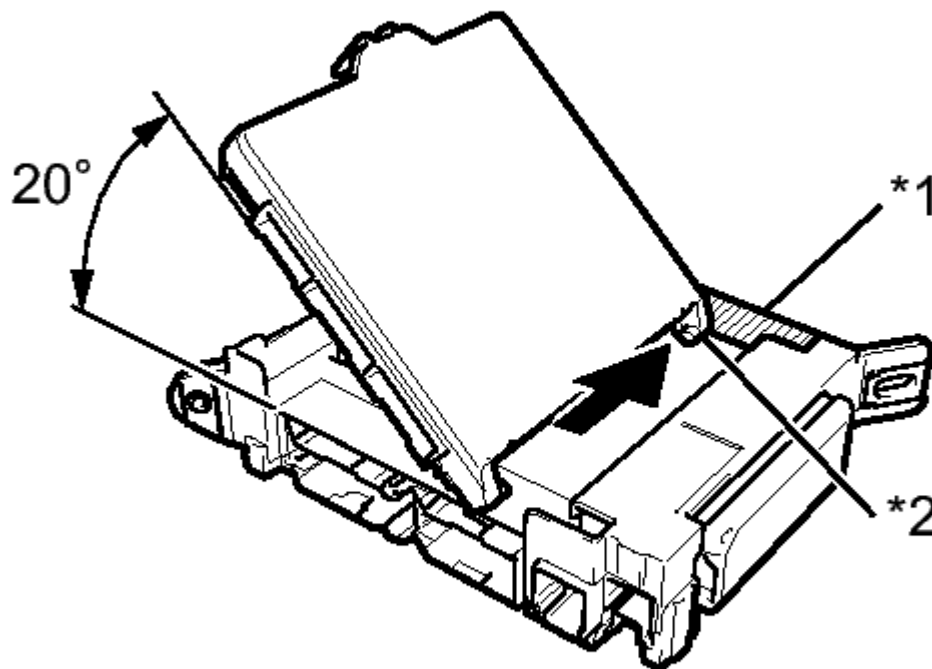
INSTALLATION

INSTALLATION

1. INSTALL MAIN BODY ECU

NOTE: Make sure that there is no foreign matter in the engaging part.

- a. Contact the main body ECU guide against the housing side wall.



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Fig. 6: Installing Main Body ECU

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

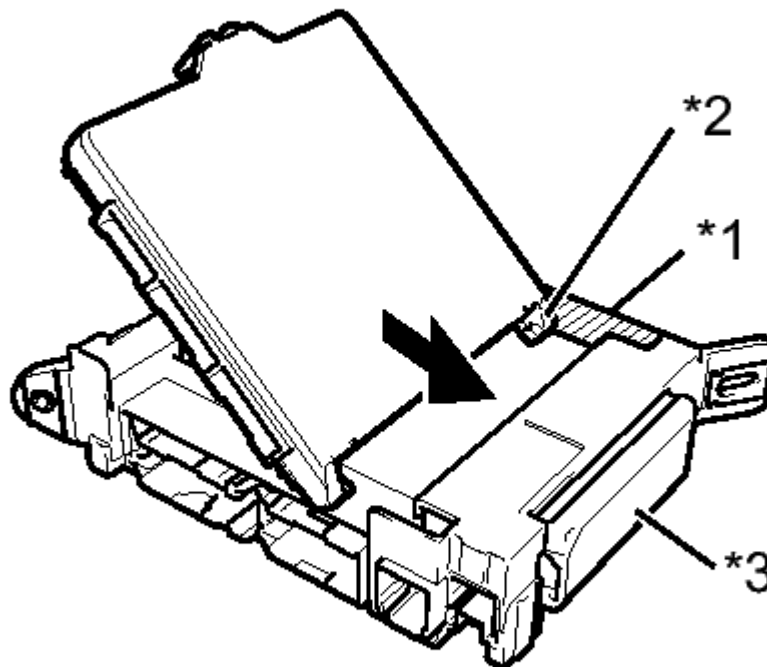
*1	Housing Side
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	Wall
*2	Guide

HINT:

The angle between the junction block and the main body ECU guide should be 20° or more.

- b. While aligning the guide with the housing side wall, slide the main body ECU toward the fuse area of the junction block.



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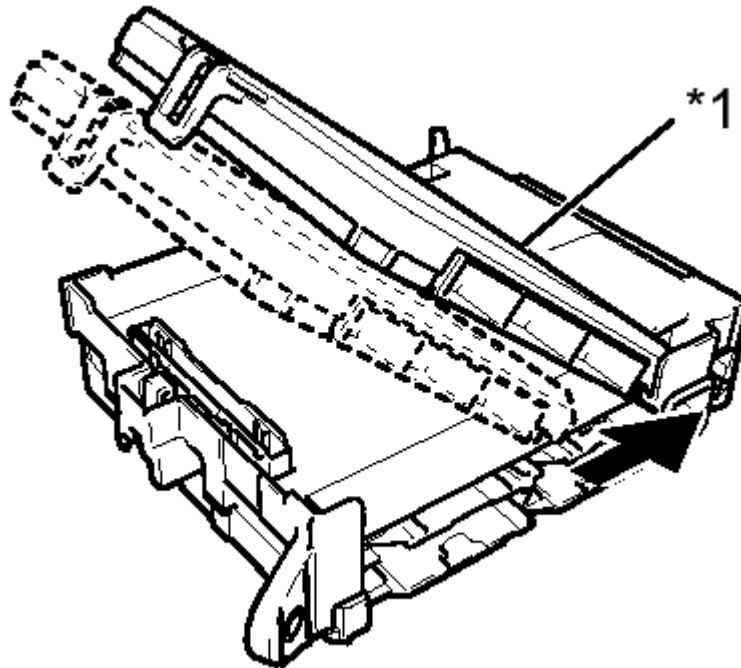
Fig. 7: Sliding Main Body ECU Toward Junction Block Fuse Area
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

	Housing
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*1	Side Wall
*2	Guide
*3	Fuse Area

- c. Slide the main body ECU until it contacts the A surface.



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Fig. 8: Securing Main Body ECU

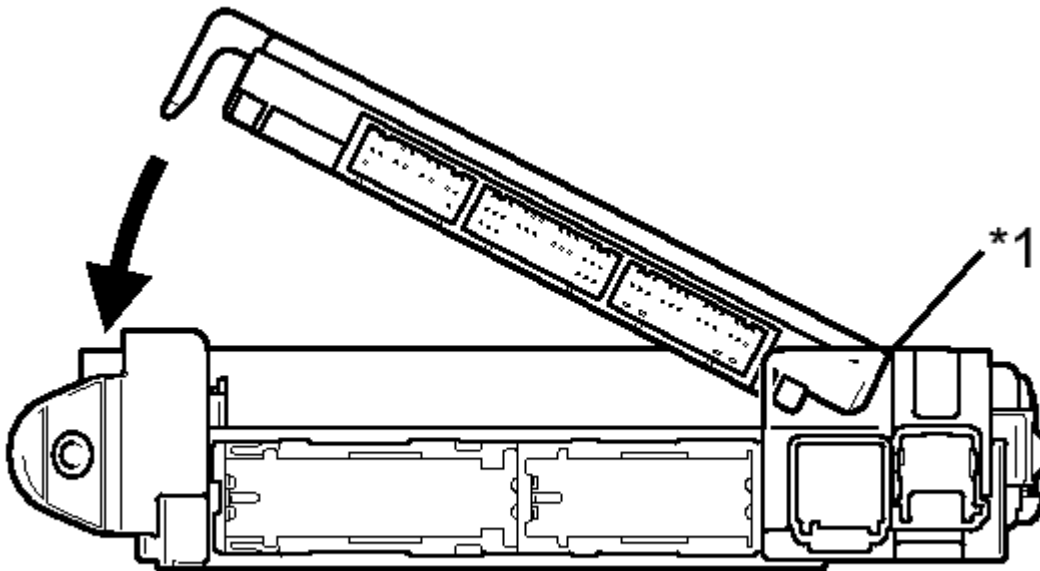
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	A surface
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NOTE: Slide the ECU gently. Do not apply strong impact to the side of the main body ECU.

- d. Rotate the main body ECU while holding it against the junction block A surface (axis of rotation).



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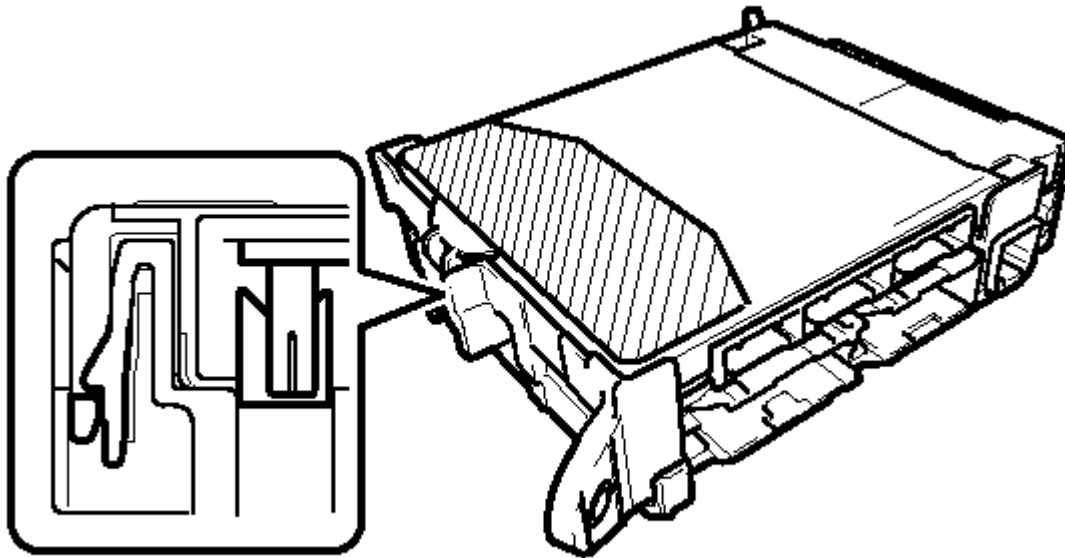
Fig. 9: Identifying Side A Contact Portion

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	A surface
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- e. Rotate the main body ECU until it engages with the lock to install it.



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Fig. 10: Checking Main Body ECU Lock Engagement
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE:

- When pressing the main body ECU, press the shaded section shown in the illustration.
- A lock sound will be heard when the main body ECU is engaged.

HINT:

If a lock sound is not heard, visually check the lock engagement. Check that the height of the main body ECU and junction block match.

2. INSTALL INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

- a. Connect the connectors on the back side.
- b. Engage the 4 guides and install the junction connector.
- c. Install the instrument panel junction block with the 2 nuts.

Torque: 8.5 N*m (87 kgf*cm, 75 in.*lbf)

- d. Connect the connectors on the front side.

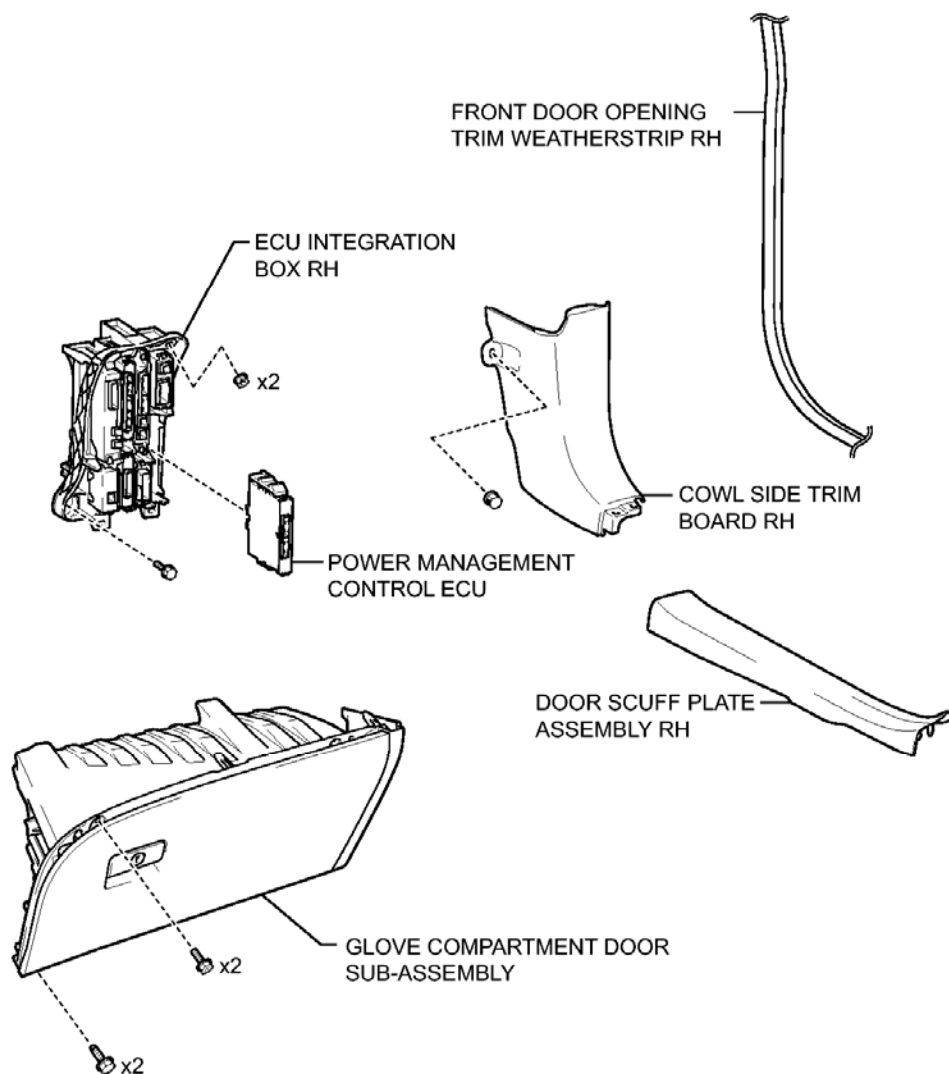
3. INSTALL KNEE AIRBAG ASSEMBLY

Refer to **INSTALLATION**

POWER MANAGEMENT CONTROL ECU

COMPONENTS

ILLUSTRATION



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Fig. 11: Power Management Control ECU Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

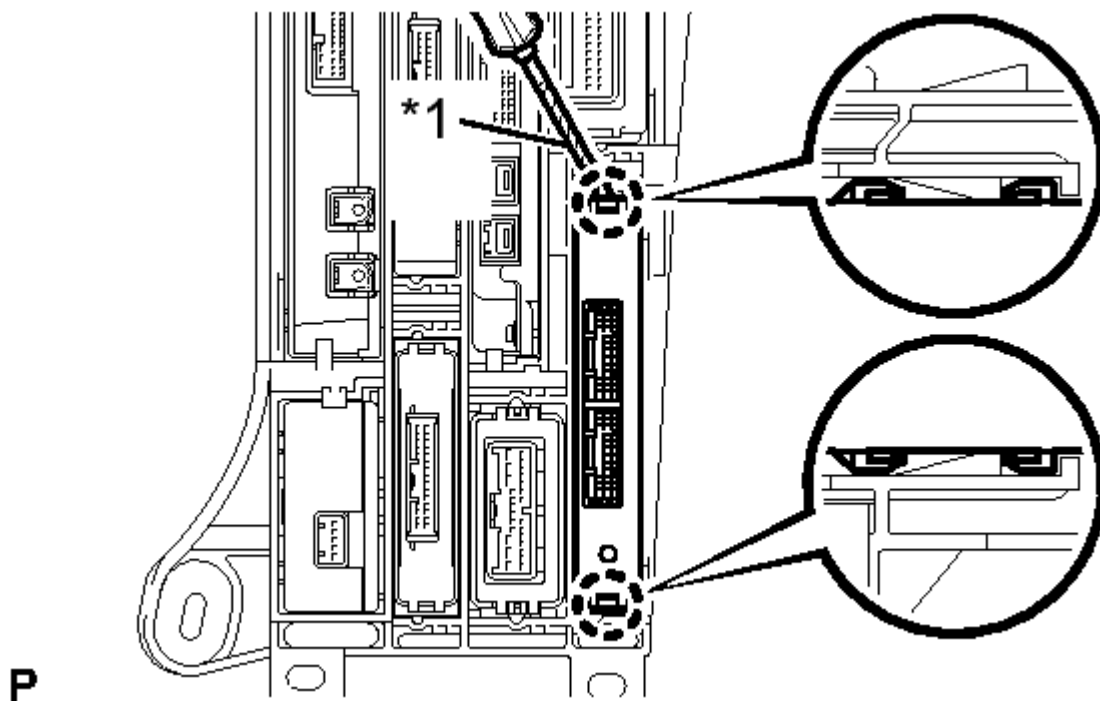
REMOVAL

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected. Refer to INITIALIZATION .

2. REMOVE DOOR SCUFF PLATE ASSEMBLY RH . Refer to REMOVAL - Step 3
3. SEPARATE FRONT DOOR OPENING TRIM WEATHERSTRIP RH
4. REMOVE COWL SIDE TRIM BOARD RH . Refer to REMOVAL - Step 5
5. REMOVE GLOVE COMPARTMENT DOOR SUB-ASSEMBLY . Refer to REMOVAL - Step 34
6. REMOVE ECU INTEGRATION BOX RH . Refer to REMOVAL - Step 6
7. REMOVE POWER MANAGEMENT CONTROL ECU



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Fig. 12: Disengaging Power Management Control ECU Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and remove the power management control ECU.

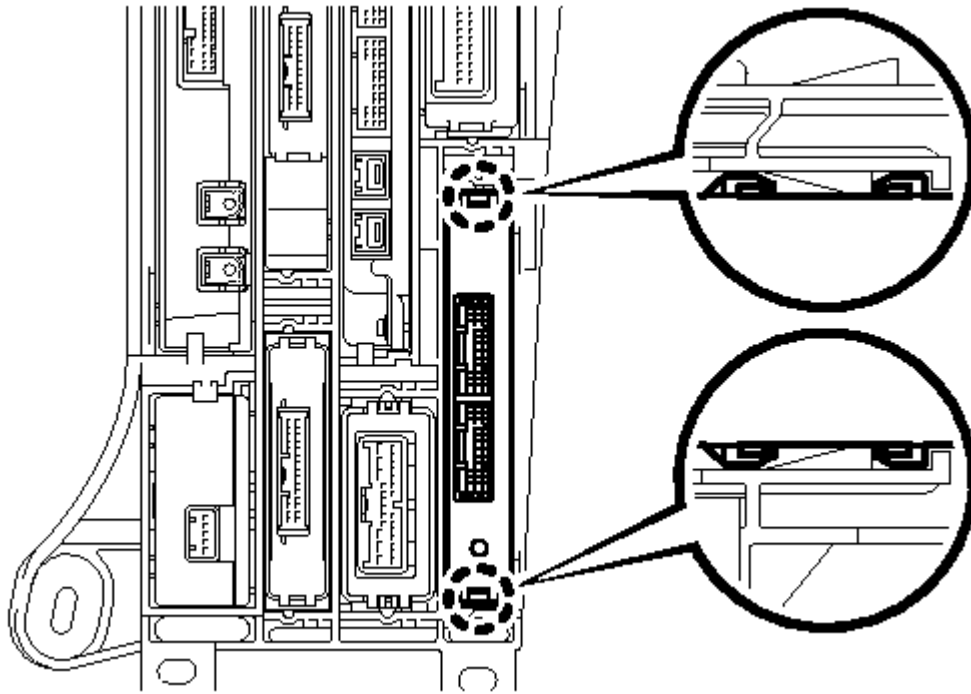
TEXT IN ILLUSTRATION

*1	Protective Tape
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INSTALLATION

INSTALLATION

1. INSTALL POWER MANAGEMENT CONTROL ECU



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Fig. 13: Engaging Power Management Control ECU Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Engage the 2 claws and install the power management control ECU.
2. **INSTALL ECU INTEGRATION BOX RH** . Refer to INSTALLATION - Step 2
3. **INSTALL GLOVE COMPARTMENT DOOR SUB-ASSEMBLY** . Refer to INSTALLATION - Step 24
4. **INSTALL COWL SIDE TRIM BOARD RH** . Refer to INSTALLATION - Step 35
5. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH**
6. **INSTALL DOOR SCUFF PLATE ASSEMBLY RH** . Refer to INSTALLATION - Step 37
7. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected. Refer to INITIALIZATION .