

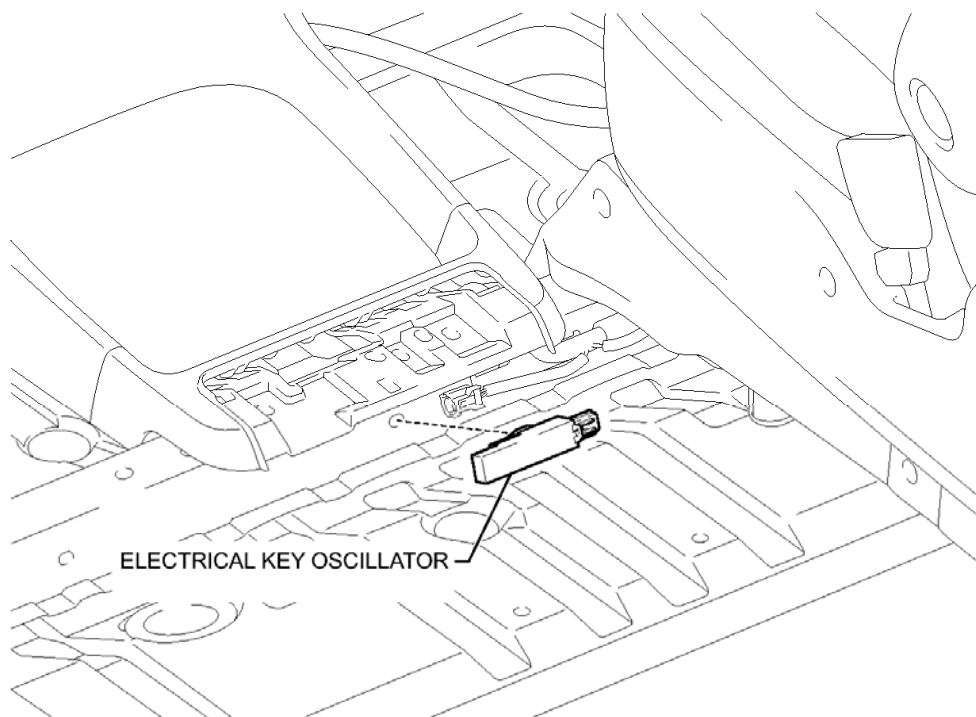
ACCESSORIES & EQUIPMENT

Theft Deterrent System / Keyless Entry System (Service Information) - Sienna

ELECTRICAL KEY OSCILLATOR (FOR FRONT FLOOR)

COMPONENTS

ILLUSTRATION



P

Fig. 1: Electrical Key Oscillator (For Front Floor) Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE CONSOLE BOX ASSEMBLY (for Slide Type)

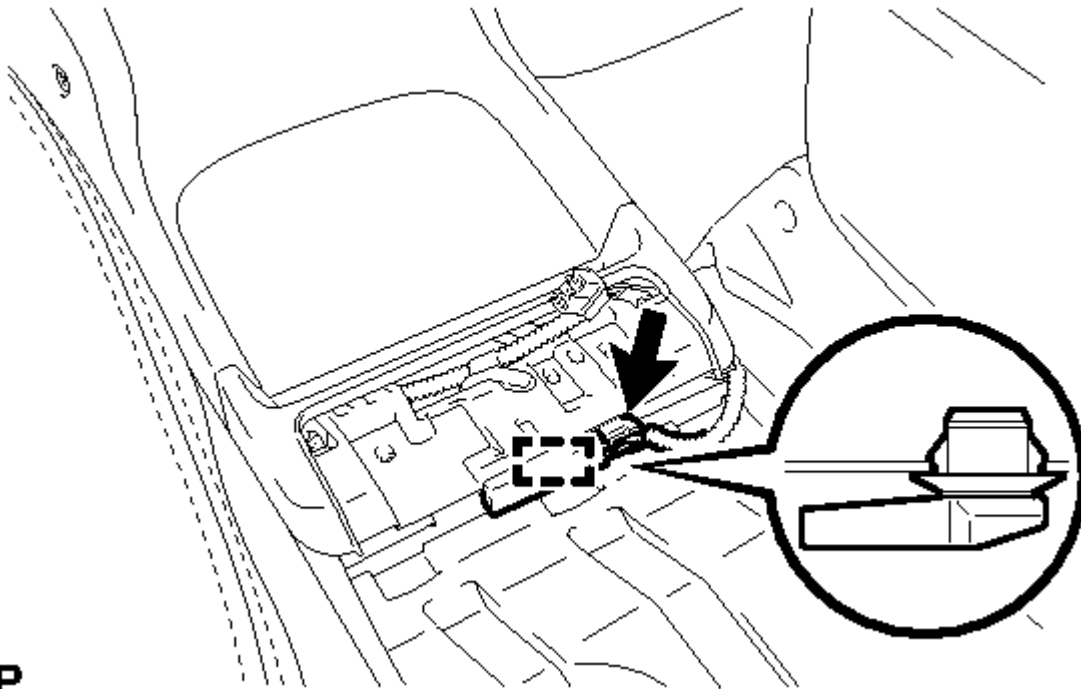
Refer to **REMOVAL**

2. REMOVE CONSOLE BOX ASSEMBLY (for Fixed Type)

Refer to **REMOVAL**

3. REMOVE ELECTRICAL KEY OSCILLATOR

- a. Disconnect the connector.



P

Fig. 2: Identifying Electrical Key Oscillator Connector

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

- b. Disengage the clamp and remove the electrical key oscillator.

NOTE: Be careful when removing the electrical key oscillator. If the oscillator is dropped, replace it with a new one.

INSTALLATION

INSTALLATION

1. INSTALL ELECTRICAL KEY OSCILLATOR

- a. Engage the clamp and install the electrical key oscillator.

NOTE: Be careful when installing the electrical key oscillator. If the oscillator is dropped, replace it with a new one.

- b. Connect the connector.

2. INSTALL CONSOLE BOX ASSEMBLY (for Slide Type)

Refer to **INSTALLATION**

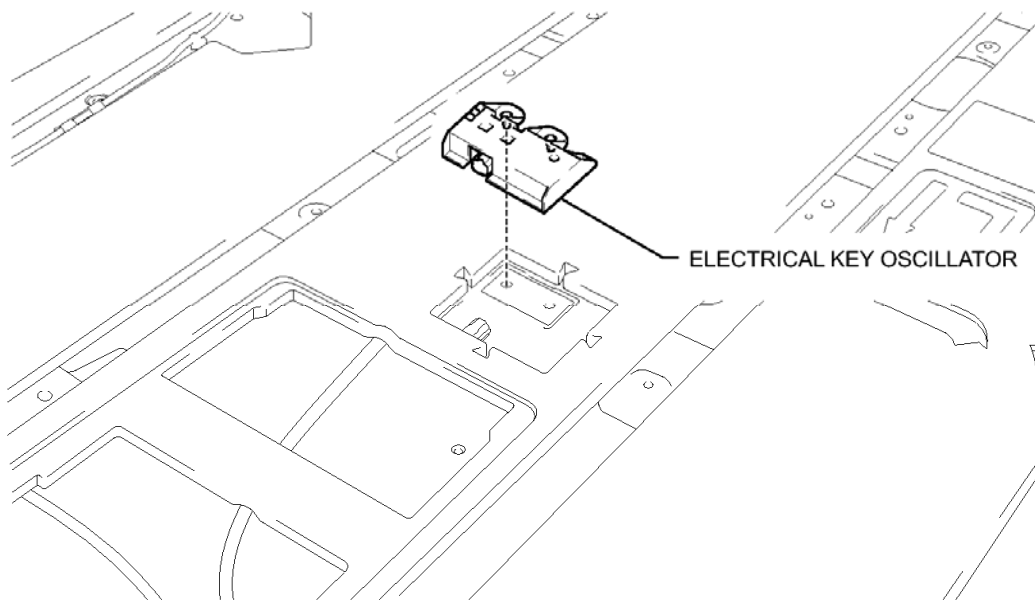
3. INSTALL CONSOLE BOX ASSEMBLY (for Fixed Type)

Refer to **INSTALLATION**

ELECTRICAL KEY OSCILLATOR (FOR CENTER FLOOR)

COMPONENTS

ILLUSTRATION



P

Fig. 3: Electrical Key Oscillator (For Center Floor) Replacement Component
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE SEAT RAIL

Refer to **REMOVAL**

2. REMOVE ELECTRICAL KEY OSCILLATOR

- a. Disengage the 2 clamps and remove the electrical key oscillator.

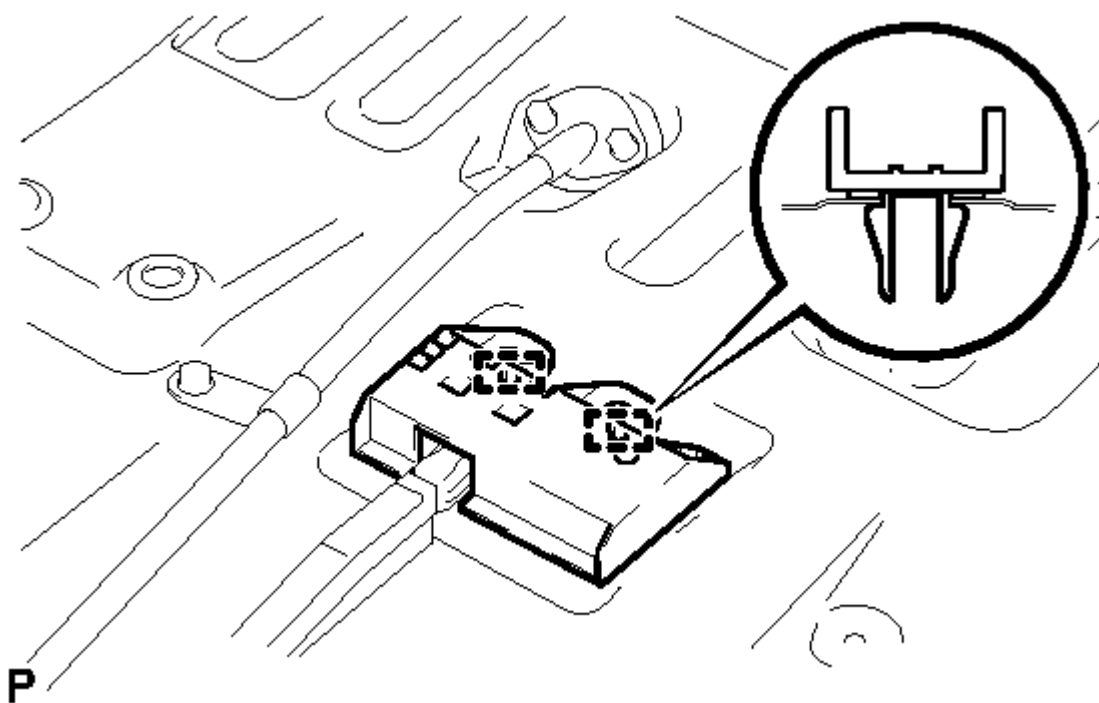


Fig. 4: Identifying Electrical Key Oscillator & Clamps
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disconnect the connector.

NOTE: Be careful when removing the electrical key oscillator. If the oscillator is dropped, replace it with a new one.

INSTALLATION

INSTALLATION

1. INSTALL ELECTRICAL KEY OSCILLATOR

- a. Connect the connector.
- b. Engage the 2 clamps and install the electrical key oscillator.

NOTE: Be careful when installing the electrical key oscillator. If the oscillator is dropped, replace it with a new one.

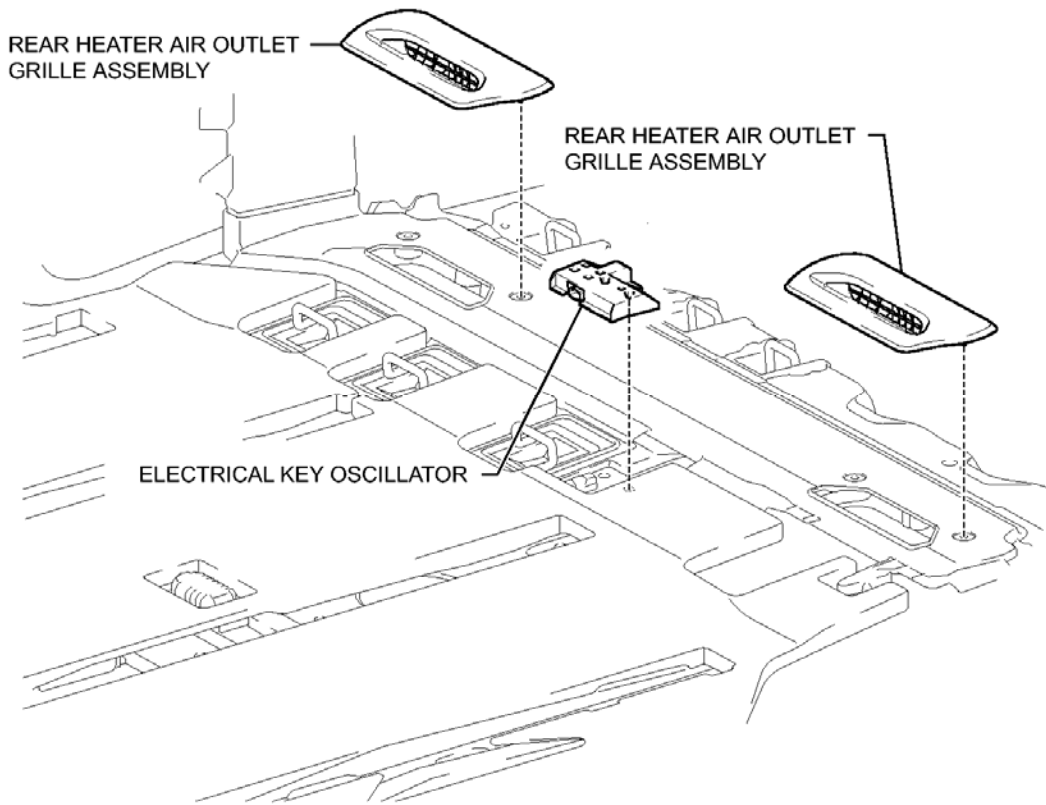
2. INSTALL SEAT RAIL

Refer to INSTALLATION

ELECTRICAL KEY OSCILLATOR (FOR REAR FLOOR)

COMPONENTS

ILLUSTRATION



P
Fig. 5: Electrical Key Oscillator (For Rear Floor) Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. **REMOVE REAR NO. 2 SEAT (for Manual Seat Type LH Side)**

Refer to **REMOVAL**

2. **REMOVE REAR NO. 2 SEAT (for Manual Seat Type RH Side)**

Refer to **REMOVAL**

3. **REMOVE REAR NO. 2 SEAT (for Power Seat Type LH Side)**

Refer to **REMOVAL**

4. **REMOVE REAR NO. 2 SEAT (for Power Seat Type RH Side)**

Refer to **REMOVAL**

5. **REMOVE REAR HEATER AIR OUTLET GRILLE ASSEMBLY** . Refer to **REMOVAL - Step 2**

6. **REMOVE ELECTRICAL KEY OSCILLATOR**

- a. Peel back the floor carpet.
- b. Disconnect the connector.
- c. Disengage the 2 clamps and remove the electrical key oscillator.

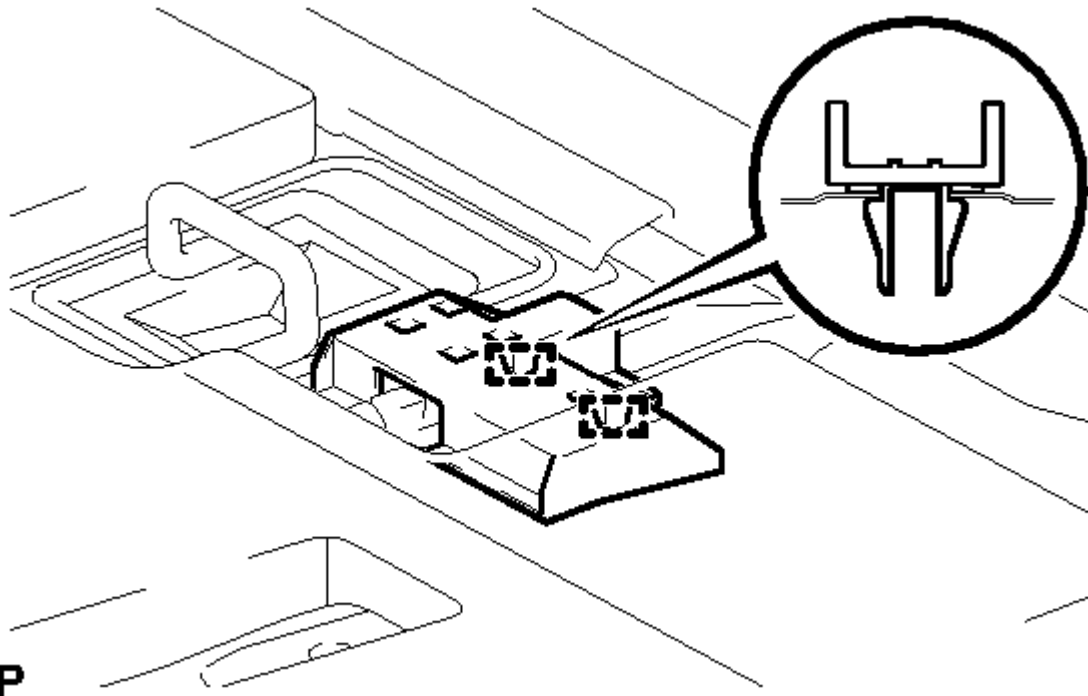


Fig. 6: Identifying Electrical Key Oscillator & Clamps
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: Be careful when removing the electrical key oscillator. If the oscillator is dropped, replace it with a new one.

INSTALLATION

INSTALLATION

1. **INSTALL ELECTRICAL KEY OSCILLATOR**

- a. Engage the 2 clamps and install the electrical key oscillator.

NOTE: Be careful when installing the electrical key oscillator. If the oscillator is dropped, replace it with a new one.

- b. Connect the connector.

c. Return the floor carpet.

2. **INSTALL REAR HEATER AIR OUTLET GRILLE ASSEMBLY** . Refer to **INSTALLATION - Step 17**

3. **INSTALL REAR NO. 2 SEAT (for Manual Seat Type LH Side)**

Refer to **INSTALLATION**

4. **INSTALL REAR NO. 2 SEAT (for Manual Seat Type RH Side)**

Refer to **INSTALLATION**

5. **INSTALL REAR NO. 2 SEAT (for Power Seat Type LH Side)**

Refer to **INSTALLATION**

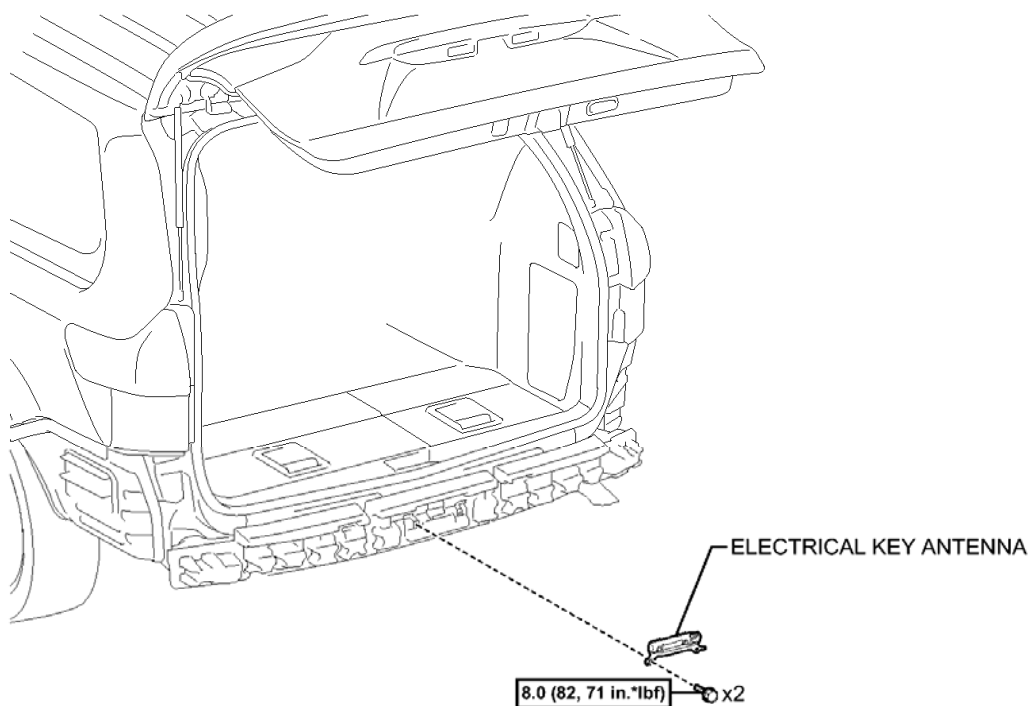
6. **INSTALL REAR NO. 2 SEAT (for Power Seat Type RH Side)**

Refer to **INSTALLATION**

ELECTRICAL KEY OSCILLATOR (FOR REAR SIDE)

COMPONENTS

ILLUSTRATION



$\text{N*m (kgf*cm, ft*lbf)}$: Specified torque

P

Fig. 7: Electrical Key Oscillator (For Rear Side) Replacement Components With Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

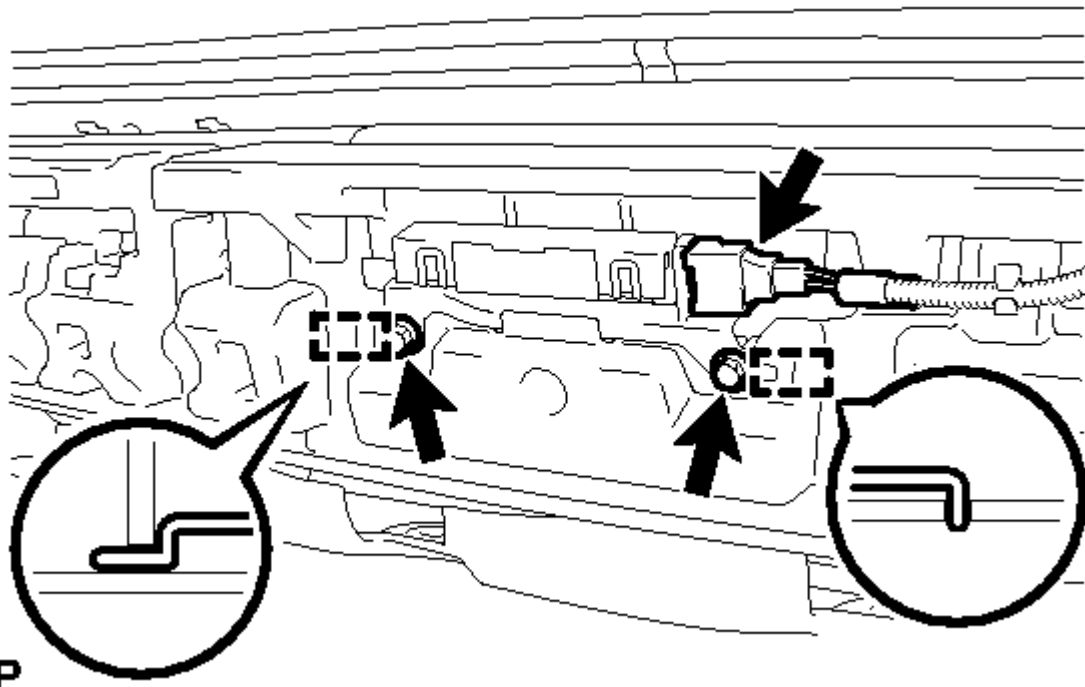
REMOVAL

1. REMOVE REAR BUMPER ASSEMBLY

Refer to **REMOVAL**

2. REMOVE ELECTRICAL KEY ANTENNA

- a. Disconnect the connector.



P

Fig. 8: Identifying Electrical Key Antenna Connector, Guides & Bolts
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the 2 bolts.
- c. Disengage the 2 guides and remove the electrical key antenna.

NOTE: Be careful when removing the electrical key antenna. If the antenna is dropped, replace it with a new one.

INSTALLATION

INSTALLATION

1. INSTALL ELECTRICAL KEY ANTENNA

- a. Engage the 2 guides and install the electrical key antenna.

NOTE: Be careful when installing the electrical key antenna. If the antenna is dropped, replace it with a new one.

- b. Install the 2 bolts.

Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)

- c. Connect the connector.

2. INSTALL REAR BUMPER ASSEMBLY

Refer to **INSTALLATION**

ENTRY LOCK AND UNLOCK SWITCH

COMPONENTS

ILLUSTRATION

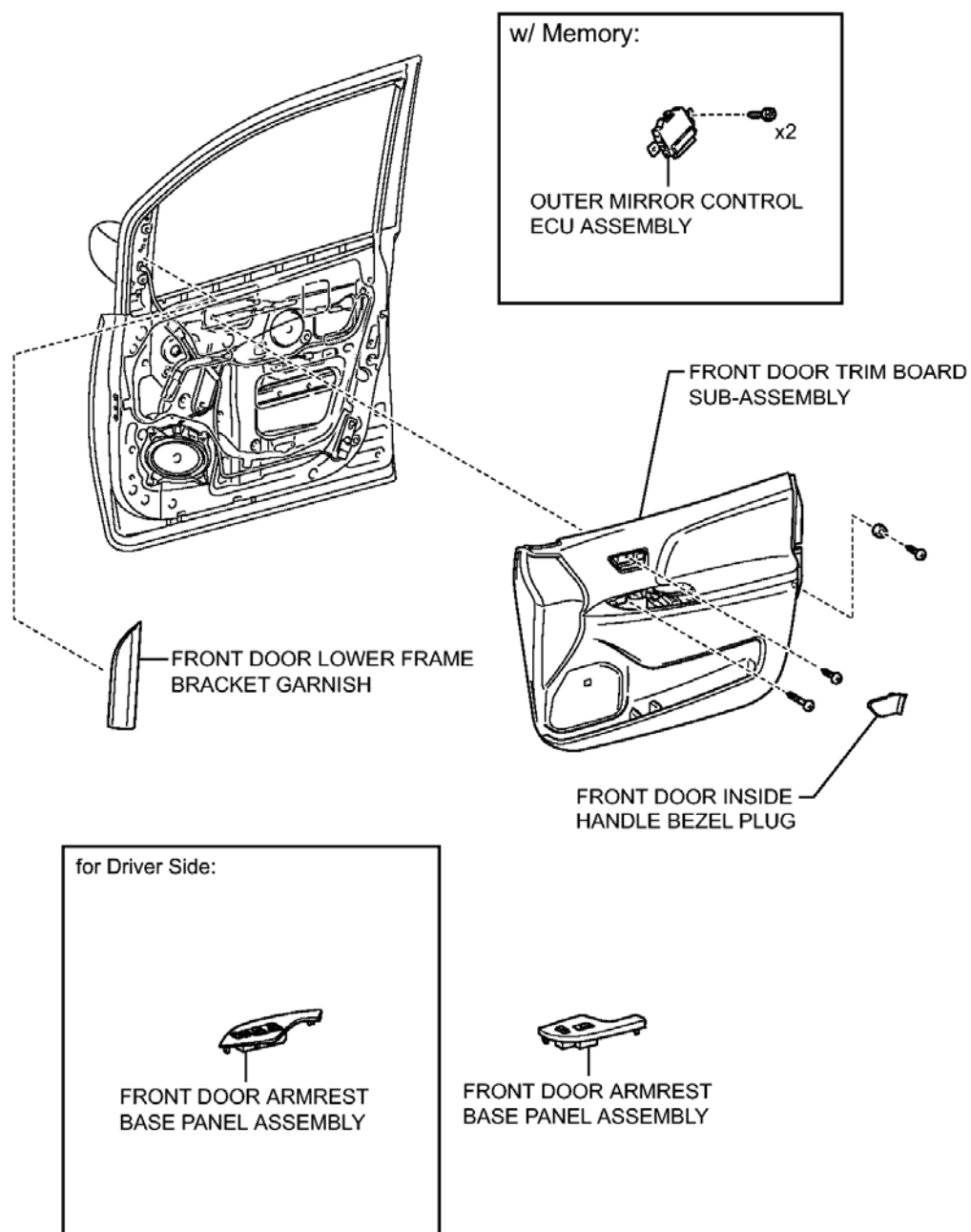
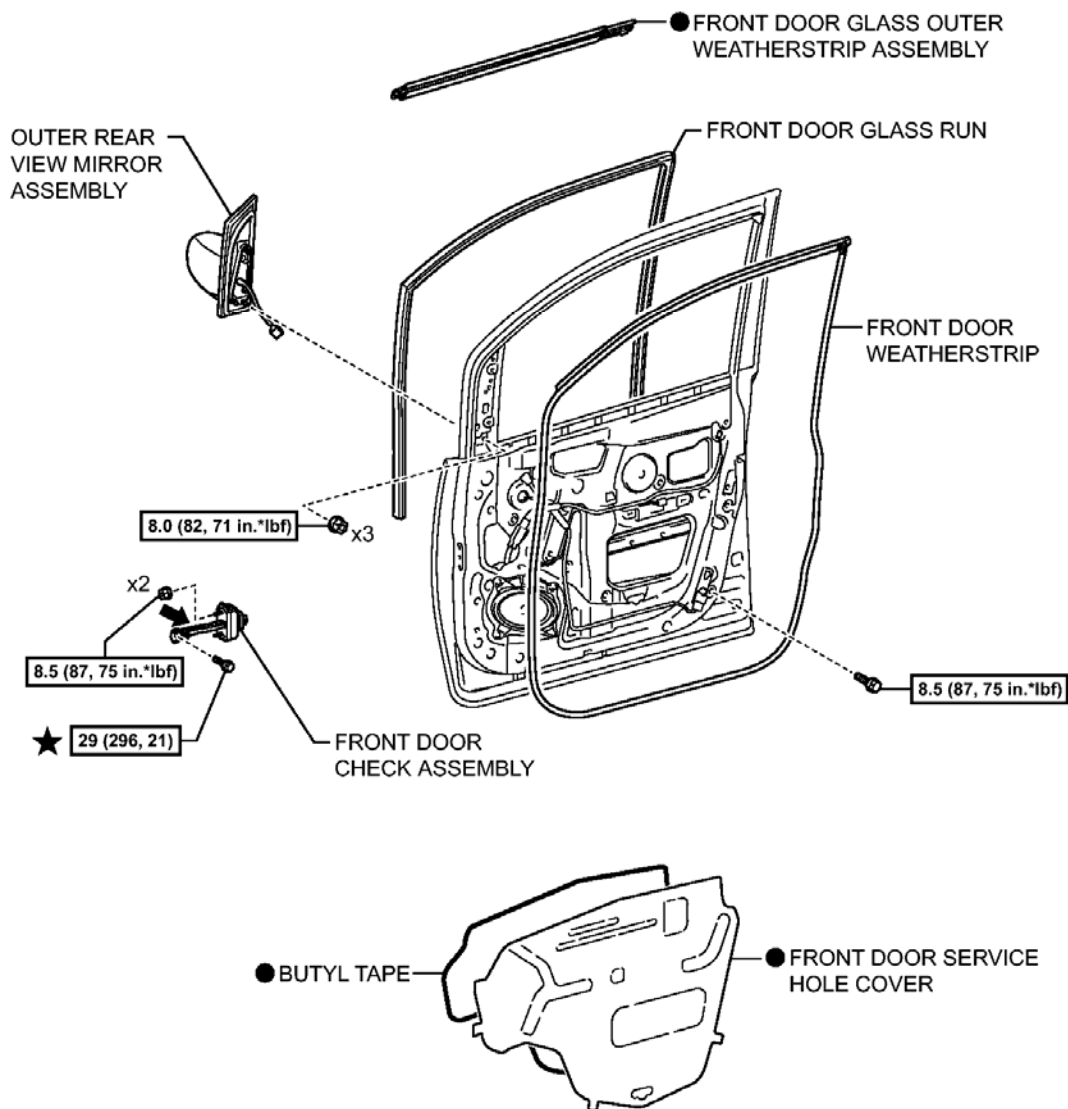


Fig. 9: Entry Lock/Unlock Switch Replacement Components (1 of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



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

● Non-reusable part

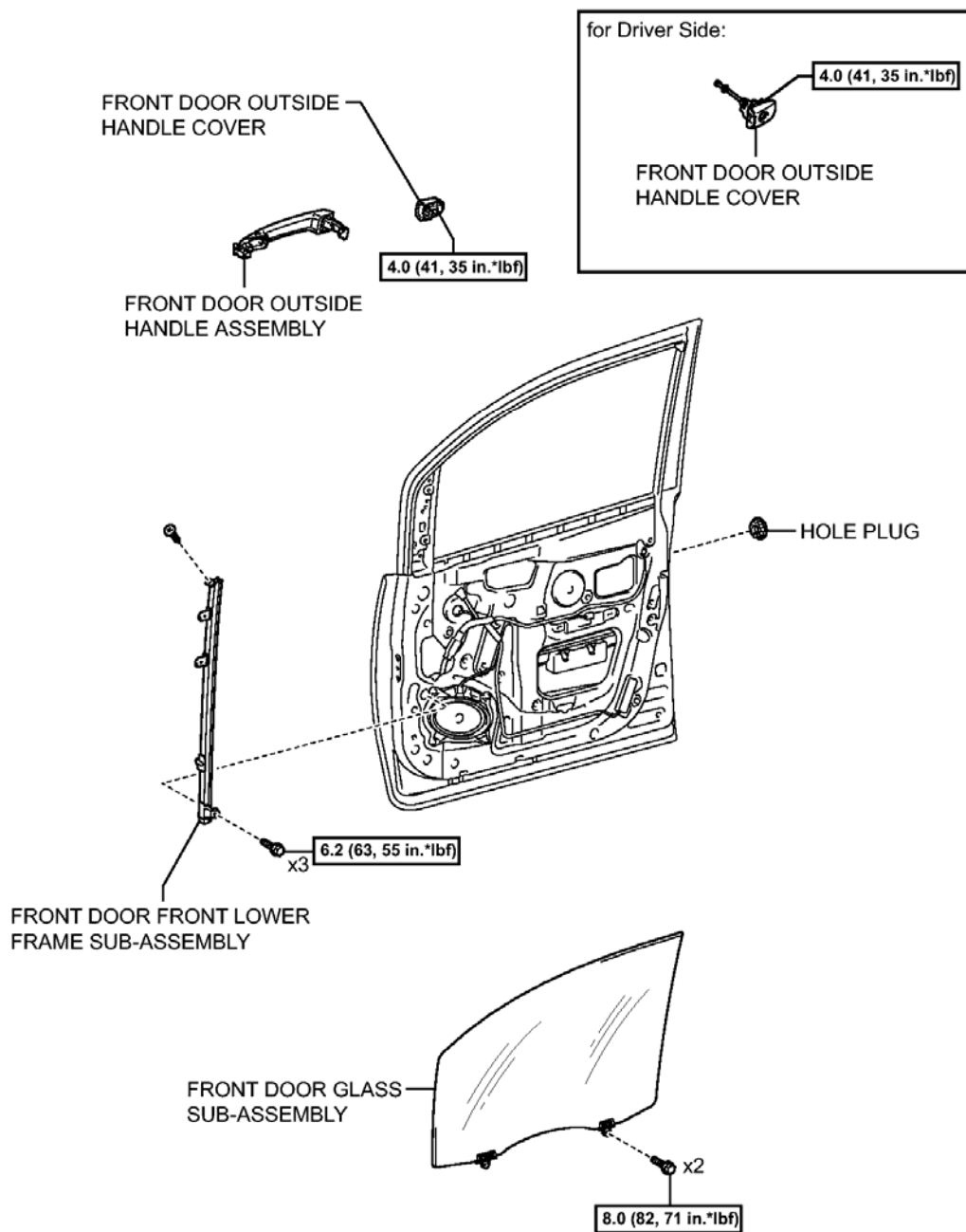
← MP grease

★ Precoated part

Y

Fig. 10: Entry Lock/Unlock Switch Replacement Components With Torque Specifications (2 of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



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

Fig. 11: Entry Lock/Unlock Switch Replacement Components With Torque Specifications (3 of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. **REMOVE FRONT DOOR ARMREST BASE PANEL ASSEMBLY** . Refer to **DISASSEMBLY - Step 2**
2. **REMOVE FRONT DOOR INSIDE HANDLE BEZEL PLUG** . Refer to **DISASSEMBLY - Step 3**
3. **REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH** . Refer to **DISASSEMBLY - Step 4**
4. **REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 5**
5. **REMOVE OUTER MIRROR CONTROL ECU ASSEMBLY (w/ Memory)** . Refer to **REMOVAL - Step 5**
6. **REMOVE FRONT DOOR SERVICE HOLE COVER** . Refer to **DISASSEMBLY - Step 12**
7. **REMOVE FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**

HINT:

Use the same procedure as for the LH side. Refer to **REMOVAL - Step 2** .

8. **REMOVE OUTER REAR VIEW MIRROR ASSEMBLY**

HINT:

Use the same procedure as for the LH side. Refer to **REMOVAL - Step 6** .

9. **REMOVE FRONT DOOR CHECK ASSEMBLY** . Refer to **DISASSEMBLY - Step 15**
10. **REMOVE FRONT DOOR WEATHERSTRIP** . Refer to **DISASSEMBLY - Step 16**
11. **REMOVE FRONT DOOR GLASS RUN** . Refer to **DISASSEMBLY - Step 17**
12. **REMOVE FRONT DOOR FRONT LOWER FRAME SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 18**
13. **REMOVE FRONT DOOR GLASS SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 19**
14. **REMOVE FRONT DOOR OUTSIDE HANDLE COVER (for Driver Side)** . Refer to **DISASSEMBLY - Step 23**
15. **REMOVE FRONT DOOR OUTSIDE HANDLE COVER (for Front Passenger Side)** . Refer to **DISASSEMBLY - Step 24**
16. **REMOVE FRONT DOOR OUTSIDE HANDLE ASSEMBLY**
 - a. Using a screwdriver, disengage the 4 claws and remove the connector cover.

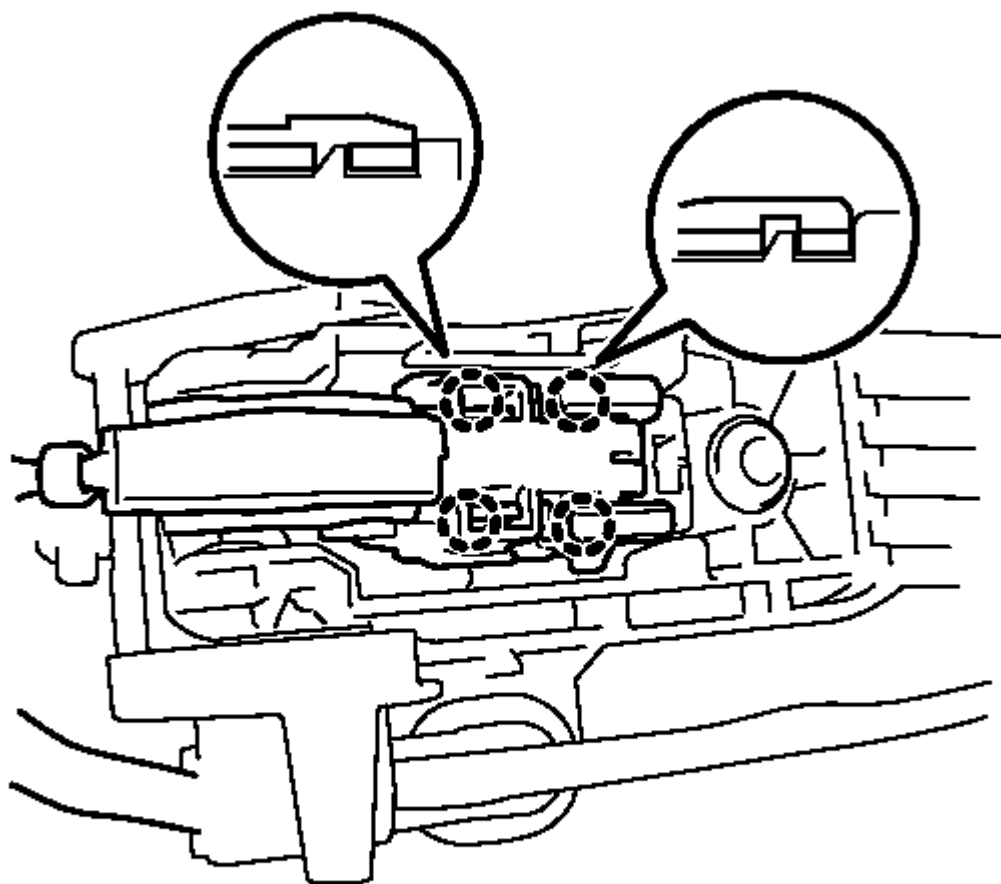
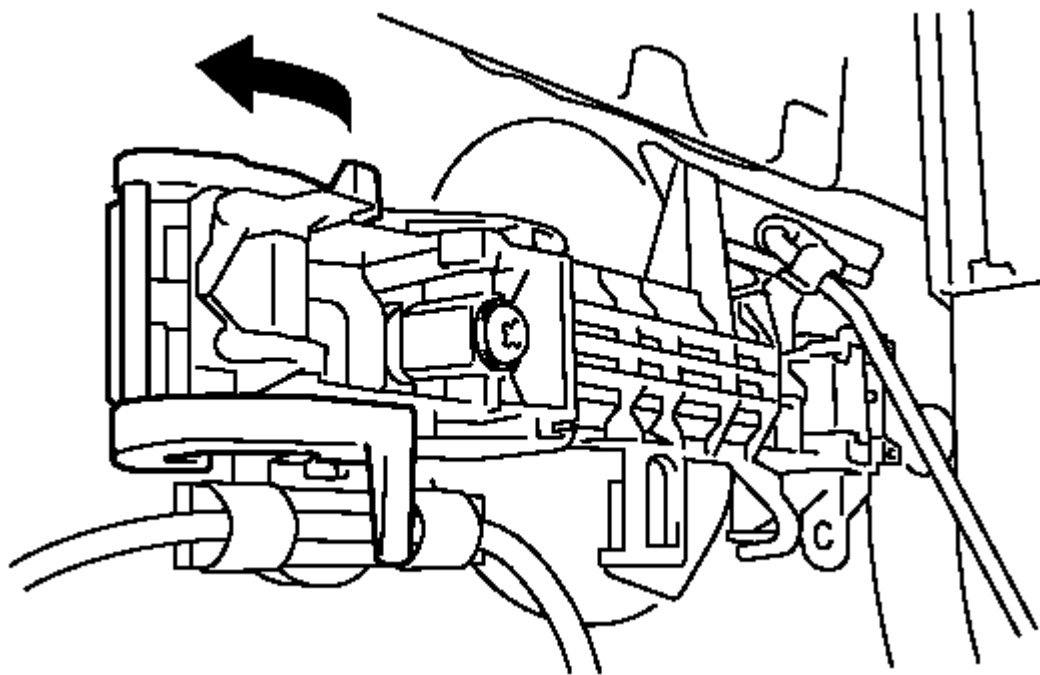


Fig. 12: Identifying Front Door Outside Handle Assembly Connector Cover & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disconnect the connector.
- c. Pull up the door handle holder as shown by the arrow.

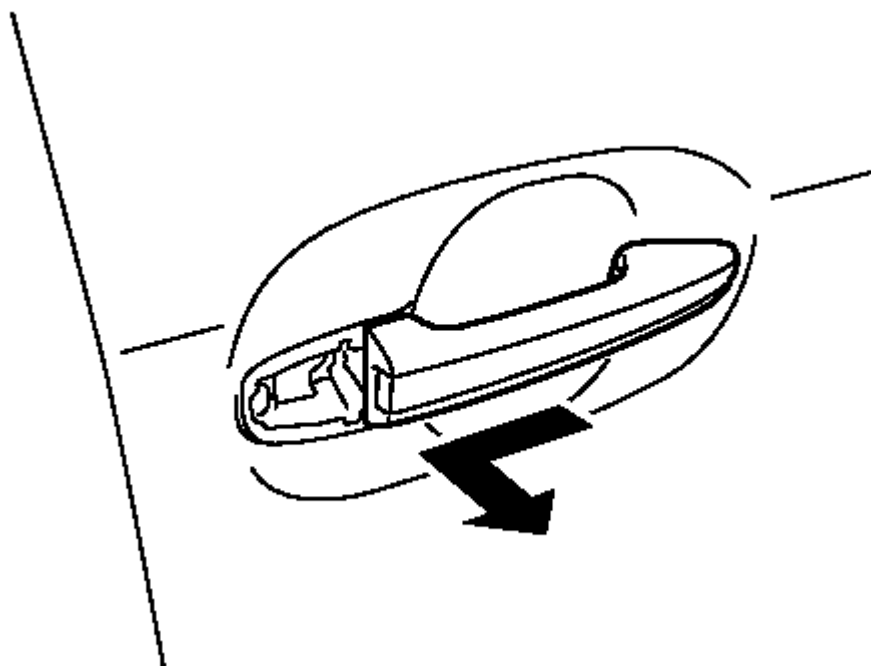


Y

Fig. 13: Removing Door Handle Holder

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

- d. Pull the front door outside handle toward the back of the vehicle, disengage the front door outside handle frame, and remove the handle from the front door outside handle frame.



Y

Fig. 14: Pulling Front Door Outside Handle

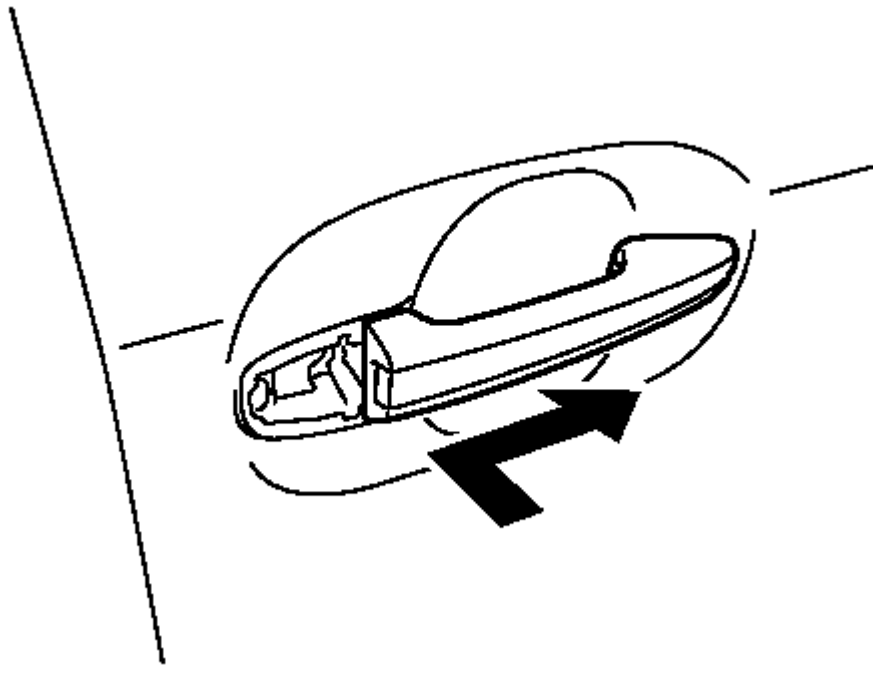
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

INSTALLATION

1. INSTALL FRONT DOOR OUTSIDE HANDLE ASSEMBLY

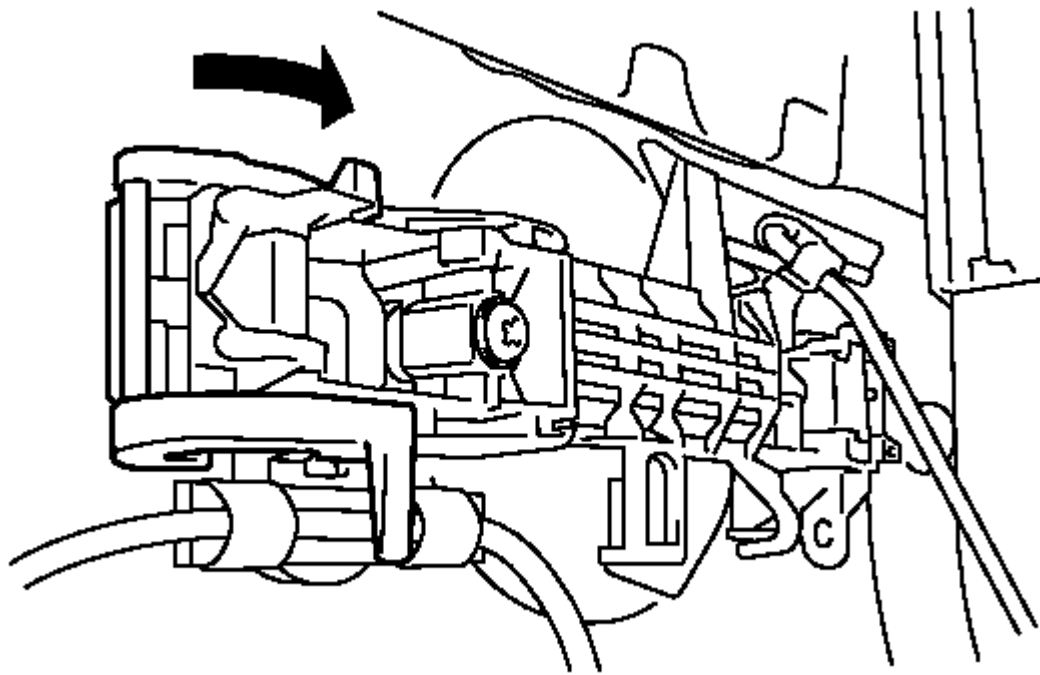
- a. Pushing the front door outside handle in the direction of the arrow as mark shown in the illustration, install the front door outside handle.



Y

Fig. 15: Installing Front Door Outside Handle Assembly (w/o Smart Key System)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Pull down the door handle holder as shown by the arrow and lock the front door outside handle.



Y

Fig. 16: Pulling Down Door Handle Holder

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

- c. Connect the connector.
- d. Engage the 4 claws and install the connector cover.
- 2. **INSTALL FRONT DOOR OUTSIDE HANDLE COVER (for Front Passenger Side)** . Refer to **REASSEMBLY - Step 11**
- 3. **INSTALL FRONT DOOR OUTSIDE HANDLE COVER (for Driver Side)** . Refer to **REASSEMBLY - Step 12**
- 4. **INSTALL FRONT DOOR GLASS SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 16**
- 5. **INSTALL FRONT DOOR FRONT LOWER FRAME SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 17**
- 6. **INSTALL FRONT DOOR GLASS RUN** . Refer to **REASSEMBLY - Step 18**
- 7. **INSTALL FRONT DOOR WEATHERSTRIP** . Refer to **REASSEMBLY - Step 19**
- 8. **INSTALL FRONT DOOR CHECK ASSEMBLY** . Refer to **REASSEMBLY - Step 20**
- 9. **INSTALL OUTER REAR VIEW MIRROR ASSEMBLY**

HINT:

Use the same procedure as for the LH side. Refer to **INSTALLATION - Step 3** .

- 10. **INSTALL FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**

HINT:

Use the same procedure as for the LH side. Refer to **INSTALLATION - Step 1** .

11. **INSTALL FRONT DOOR SERVICE HOLE COVER** . Refer to **REASSEMBLY - Step 23**
12. **INSTALL OUTER MIRROR CONTROL ECU ASSEMBLY (w/ Memory)** . Refer to **INSTALLATION - Step 1**
13. **INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 30**
14. **INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH** . Refer to **REASSEMBLY - Step 31**
15. **INSTALL FRONT DOOR INSIDE HANDLE BEZEL PLUG** . Refer to **REASSEMBLY - Step 32**
16. **INSTALL FRONT DOOR ARMREST BASE PANEL ASSEMBLY** . Refer to **REASSEMBLY - Step 33**

ENGINE HOOD COURTESY SWITCH

COMPONENTS

ILLUSTRATION

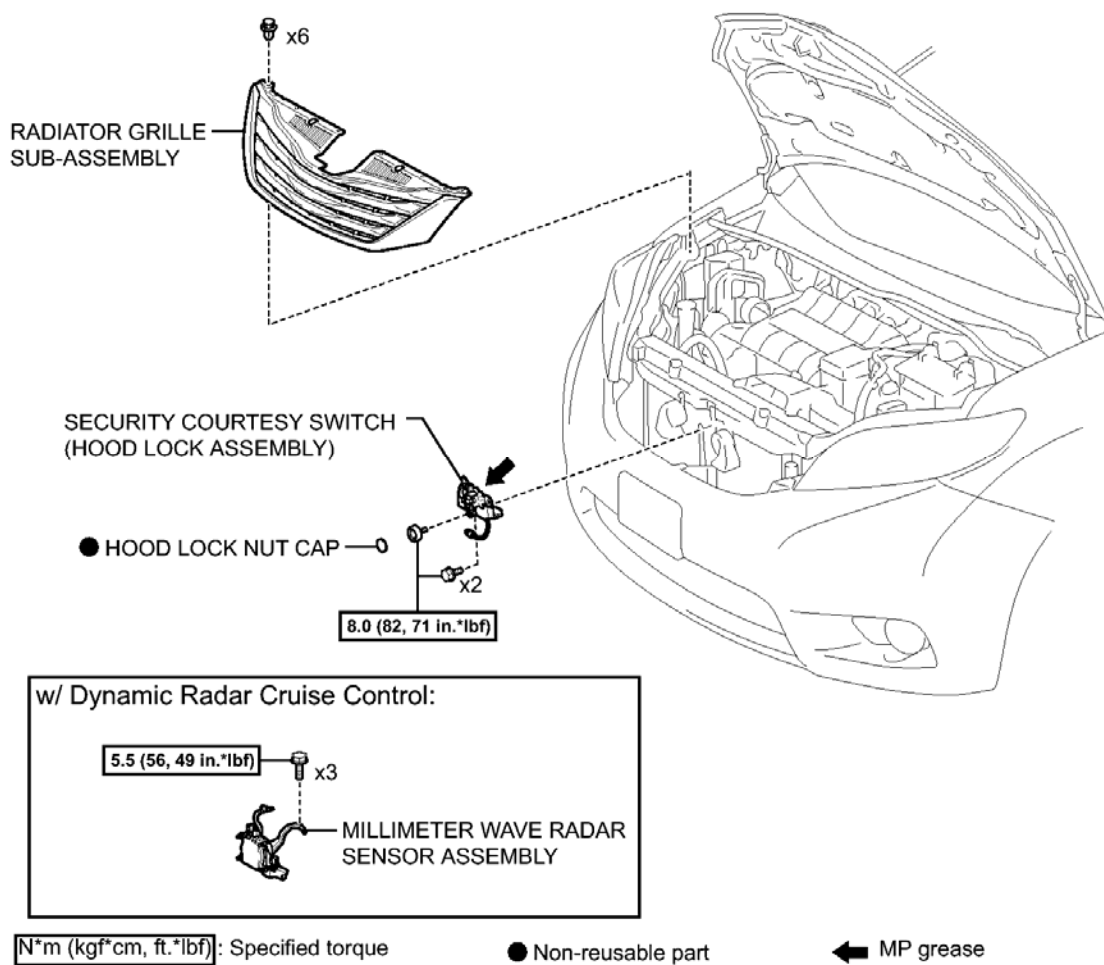


Fig. 17: Engine Hood Courtesy Switch Replacement Components With Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

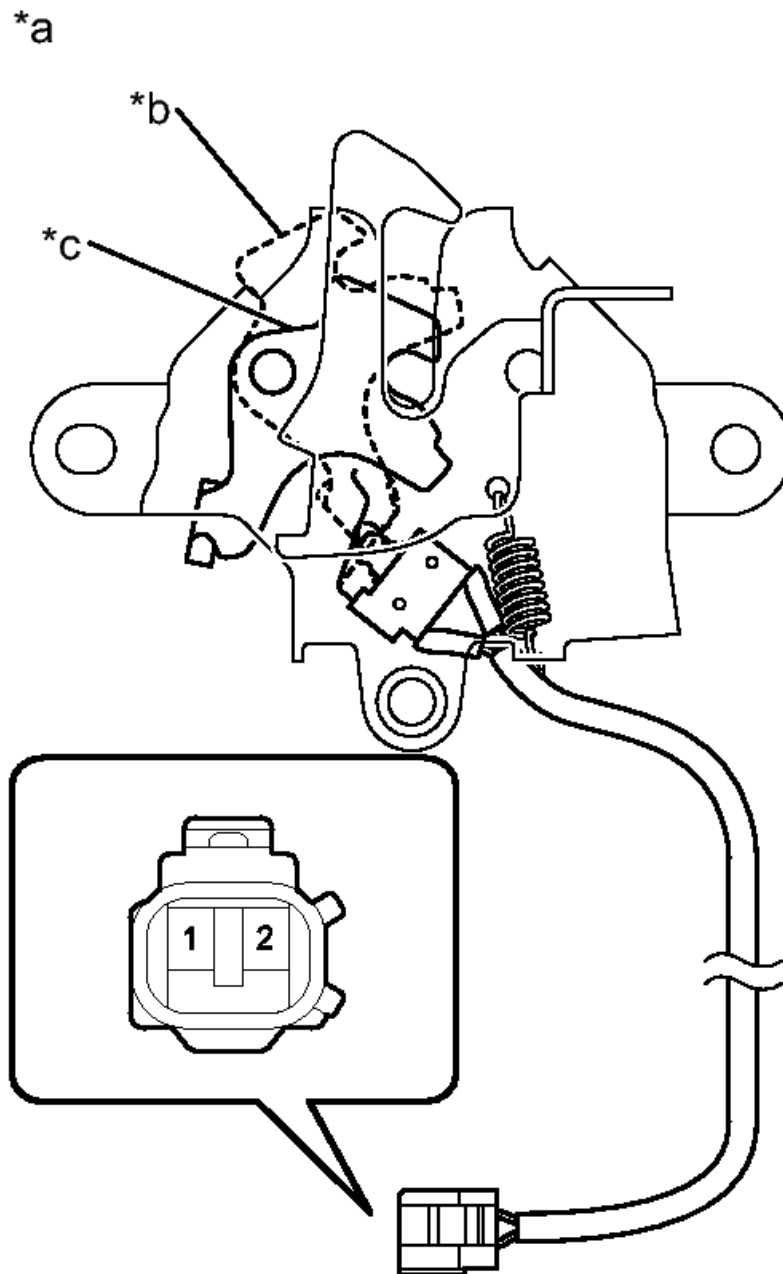
1. **REMOVE RADIATOR GRILLE SUB-ASSEMBLY** . Refer to **REMOVAL - Step 3**
2. **REMOVE MILLIMETER WAVE RADAR SENSOR ASSEMBLY (w/ Dynamic Radar Cruise Control System)** . Refer to **REMOVAL - Step 2**
3. **REMOVE HOOD LOCK NUT CAP** . Refer to **REMOVAL - Step 5**
4. **REMOVE SECURITY COURTESY SWITCH (HOOD LOCK ASSEMBLY)** . Refer to **REMOVAL - Step 6**

INSPECTION

INSPECTION

1. INSPECT SECURITY COURTESY SWITCH (HOOD LOCK ASSEMBLY)

- a. Measure the resistance according to the value(s) in the table below.



Y

Fig. 18: Checking Security Courtesy Switch Resistance (Hood Lock Assembly)

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

Standard Resistance

Tester Connection	Condition	Specified Condition
1 - 2	Locked	10 kohms or higher
1 - 2	Opened	Below 1 ohms

TEXT IN ILLUSTRATION

*a	Component without harness connected (Security Courtesy Switch (Hood Lock Assembly))
*b	Opened
*c	Locked

If the result is not as specified, replace the security courtesy switch (hood lock assembly).

INSTALLATION

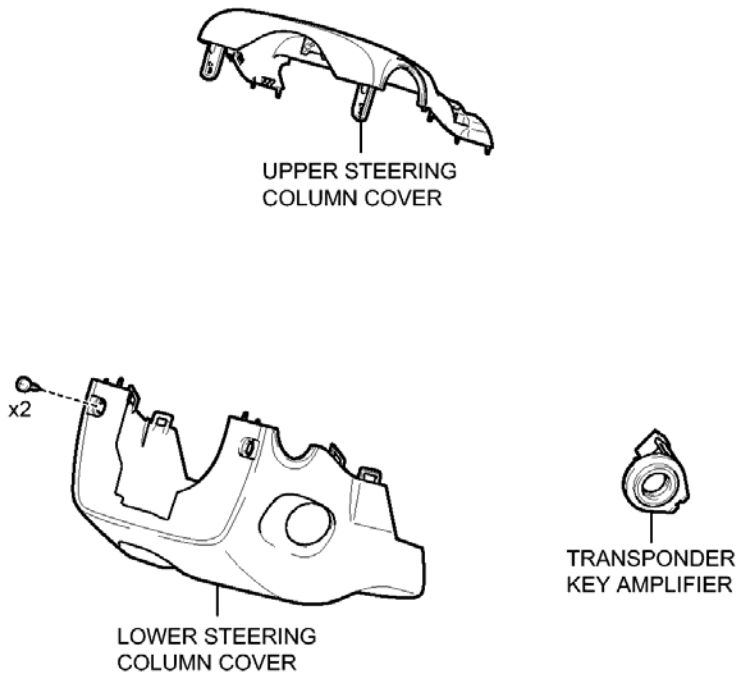
INSTALLATION

1. **INSTALL SECURITY COURTESY SWITCH (HOOD LOCK ASSEMBLY)** . Refer to **INSTALLATION - Step 6**
2. **INSPECT HOOD SUB-ASSEMBLY** . Refer to **ON-VEHICLE INSPECTION - Step 1**
3. **ADJUST HOOD SUB-ASSEMBLY** . Refer to **ADJUSTMENT - Step 5**
4. **INSTALL HOOD LOCK NUT CAP** . Refer to **INSTALLATION - Step 9**
5. **INSTALL MILLIMETER WAVE RADAR SENSOR ASSEMBLY (w/ Dynamic Radar Cruise Control System)** . Refer to **INSTALLATION - Step 1**
6. **ADJUST MILLIMETER WAVE RADAR SENSOR ASSEMBLY (w/ Dynamic Radar Cruise Control System)** . Refer to **ADJUSTMENT - Step 1**
7. **INSTALL RADIATOR GRILLE SUB-ASSEMBLY** . Refer to **INSTALLATION - Step 2**

TRANSPONDER KEY AMPLIFIER

COMPONENTS

ILLUSTRATION



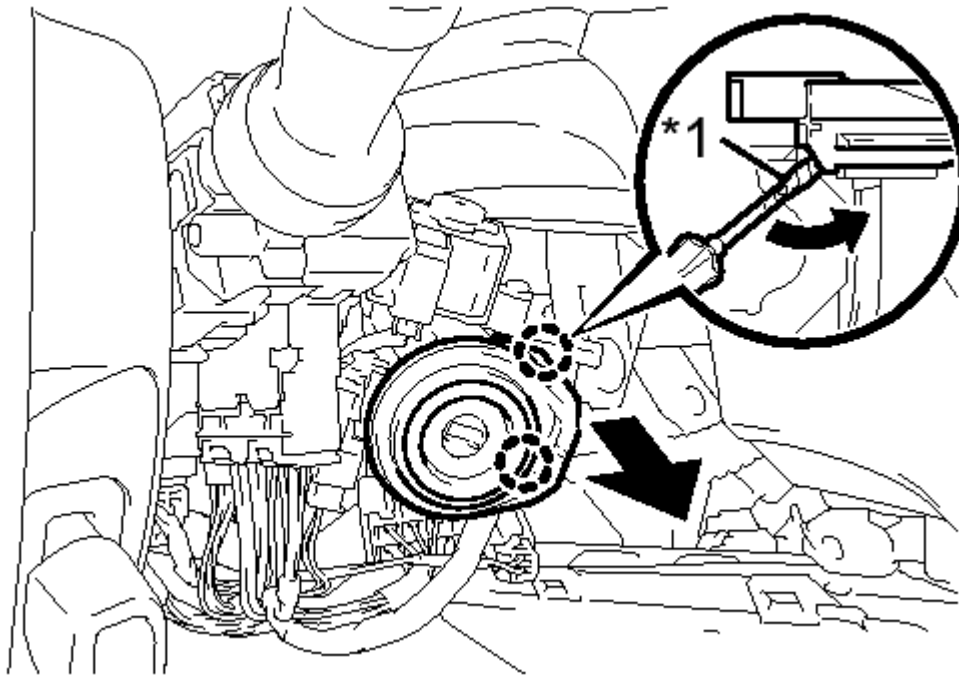
P

Fig. 19: Transponder Key Amplifier Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. **REMOVE LOWER STEERING COLUMN COVER** . Refer to **REMOVAL - Step 1**
2. **REMOVE UPPER STEERING COLUMN COVER** . Refer to **REMOVAL - Step 2**
3. **REMOVE TRANSPONDER KEY AMPLIFIER**
 - a. Disconnect the connector.
 - b. Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and remove the transponder key amplifier.



P

Fig. 20: Removing Transponder Key Amplifier & Fastener Using Screwdriver
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

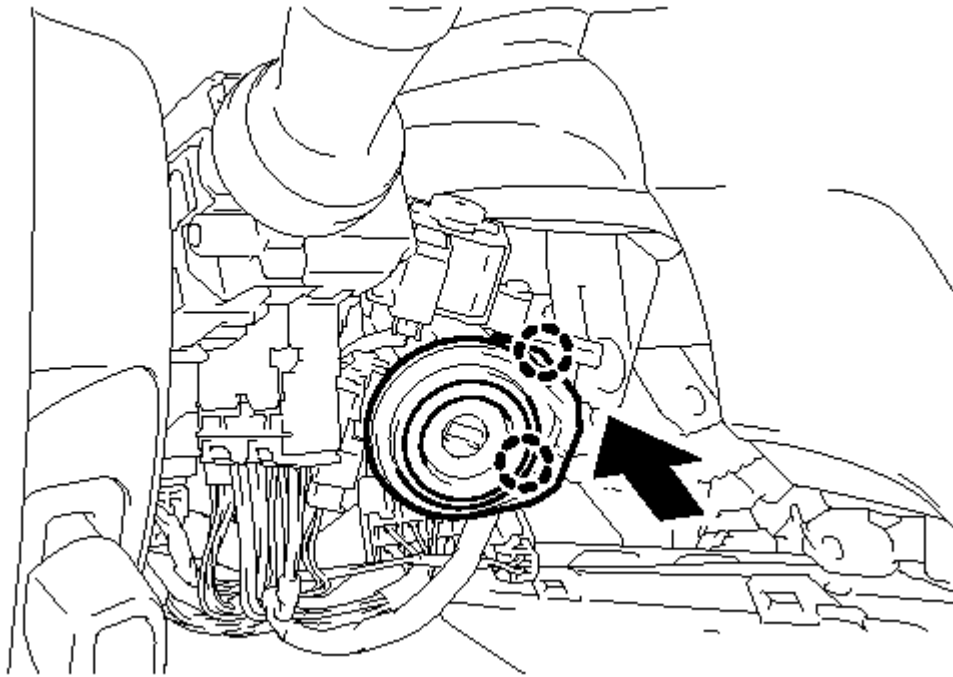
*1	Protective Tape
----	--------------------

INSTALLATION

INSTALLATION

1. INSTALL TRANSPONDER KEY AMPLIFIER

- a. Engage the 2 claws and install the transponder key amplifier.



P

Fig. 21: Installing Transponder Key Amplifier & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

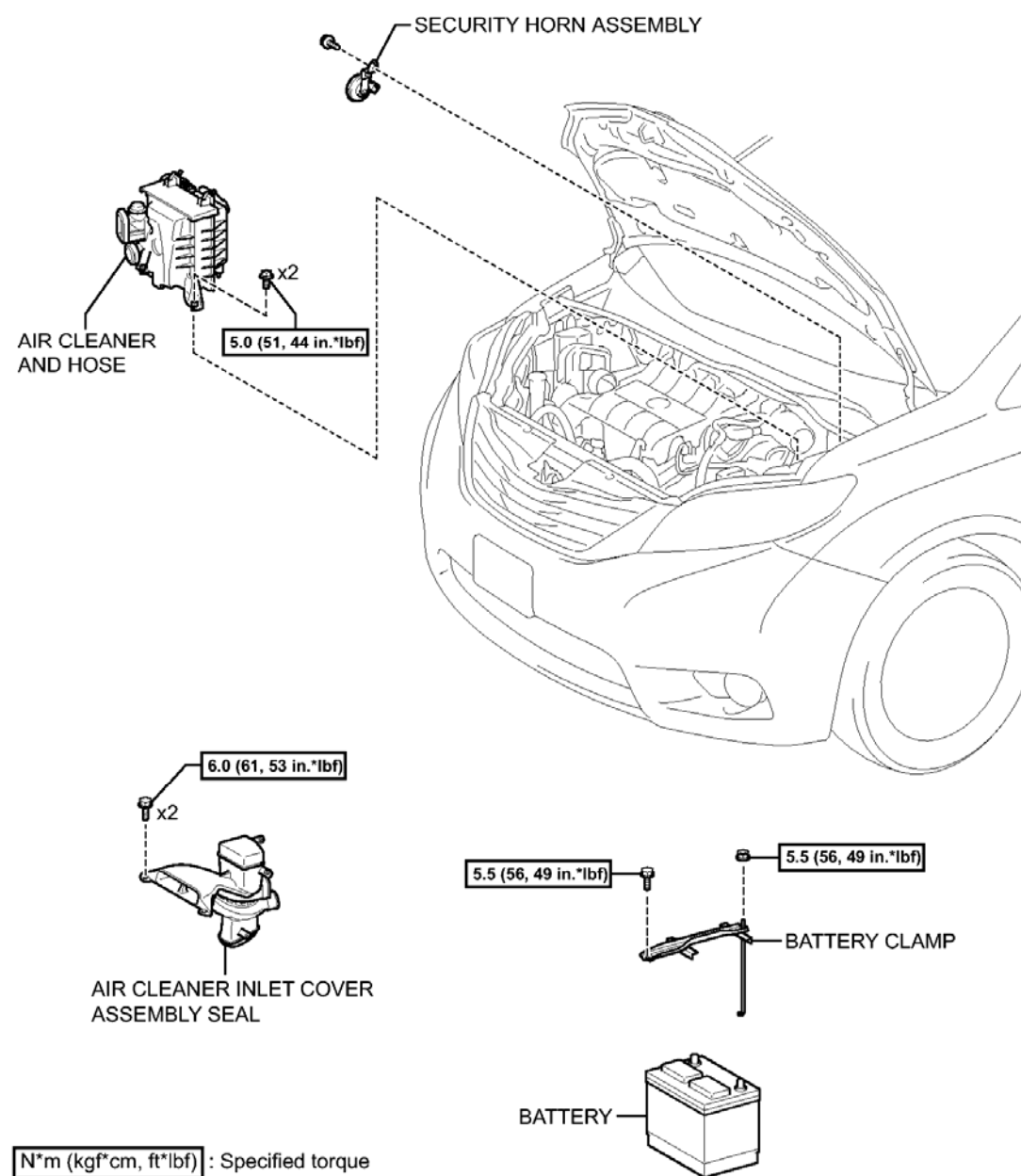
- b. Connect the connector.
- 2. **INSTALL UPPER STEERING COLUMN COVER** . Refer to **INSTALLATION - Step 3**
- 3. **INSTALL LOWER STEERING COLUMN COVER** . Refer to **INSTALLATION - Step 4**

SECURITY HORN ASSEMBLY

COMPONENTS

ILLUSTRATION

for 2GR-FE:

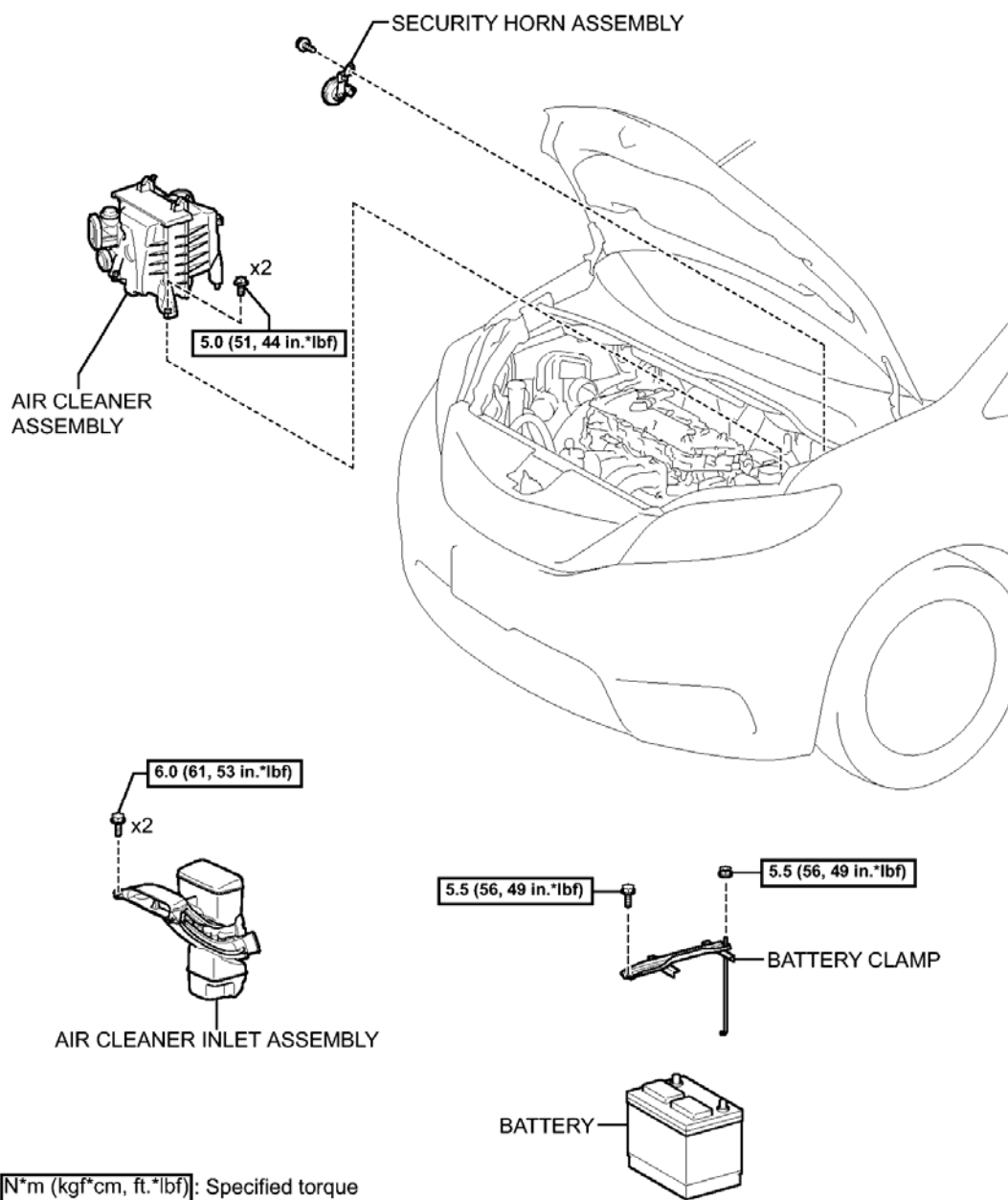


P

Fig. 22: Security Horn Assembly Replacement Components With Torque Specifications (2GR-FE)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION

for 1AR-FE:



P

Fig. 23: Security Horn Assembly Replacement Components With Torque Specifications (1AR-FE)
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 AIR CLEANER INLET COVER ASSEMBLY SEAL (for 2GR-FE)** . Refer to REMOVAL - Step 25
3. **REMOVE AIR CLEANER INLET ASSEMBLY (for 1AR-FE)** . Refer to REMOVAL - Step 22
4. **REMOVE BATTERY (for 2GR-FE)** . Refer to REMOVAL - Step 26
5. **REMOVE BATTERY (for 1AR-FE)** . Refer to REMOVAL - Step 23
6. **REMOVE AIR CLEANER AND HOSE (for 2GR-FE)** . Refer to REMOVAL - Step 7
7. **REMOVE AIR CLEANER ASSEMBLY (for 1AR-FE)** . Refer to REMOVAL - Step 24
8. **REMOVE SECURITY HORN ASSEMBLY**
 - a. Disconnect the connector.
 - b. Remove the bolt.
 - c. Disengage the guide and remove the security horn.

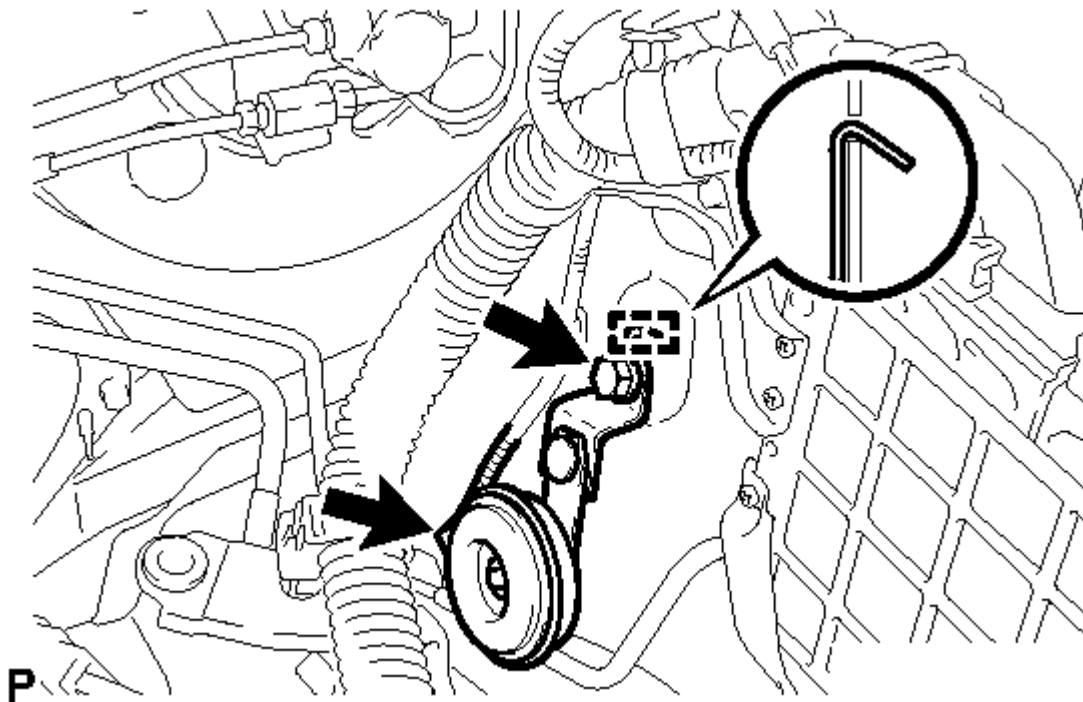
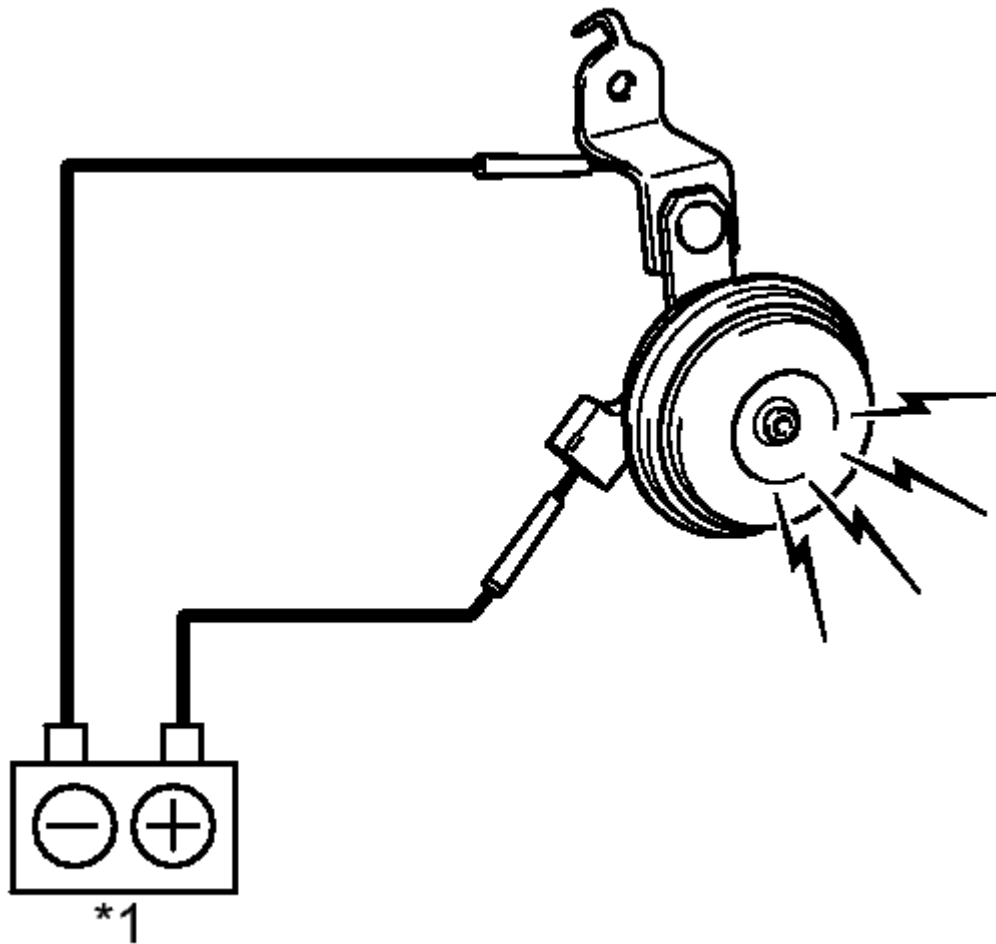


Fig. 24: Identifying Security Horn Assembly, Guide, Bolt & Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

INSPECTION

1. **INSPECT SECURITY HORN ASSEMBLY**
 - a. Check the operation of the security horn.



Y

Fig. 25: Checking Security Horn Assembly Operation With Battery Voltage Applied
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1 Battery

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > Terminal 1	Horn sounds
Battery negative (-) --	

| > Horn body |

If the result is not as specified, replace the security horn.

INSTALLATION

INSTALLATION

1. **INSTALL SECURITY HORN ASSEMBLY**
 - a. Engage the guide.
 - b. Install the security horn with the bolt.
 - c. Connect the connector.
2. **INSTALL AIR CLEANER AND HOSE (for 2GR-FE)** . Refer to INSTALLATION - Step 4
3. **INSTALL AIR CLEANER ASSEMBLY (for 1AR-FE)** . Refer to INSTALLATION - Step 45
4. **INSTALL BATTERY (for 2GR-FE)** . Refer to INSTALLATION - Step 61
5. **INSTALL BATTERY (for 1AR-FE)** . Refer to INSTALLATION - Step 46
6. **INSTALL AIR CLEANER INLET COVER ASSEMBLY SEAL (for 2GR-FE)** . Refer to INSTALLATION - Step 62
7. **INSTALL AIR CLEANER INLET ASSEMBLY (for 1AR-FE)** . Refer to INSTALLATION - Step 47
8. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

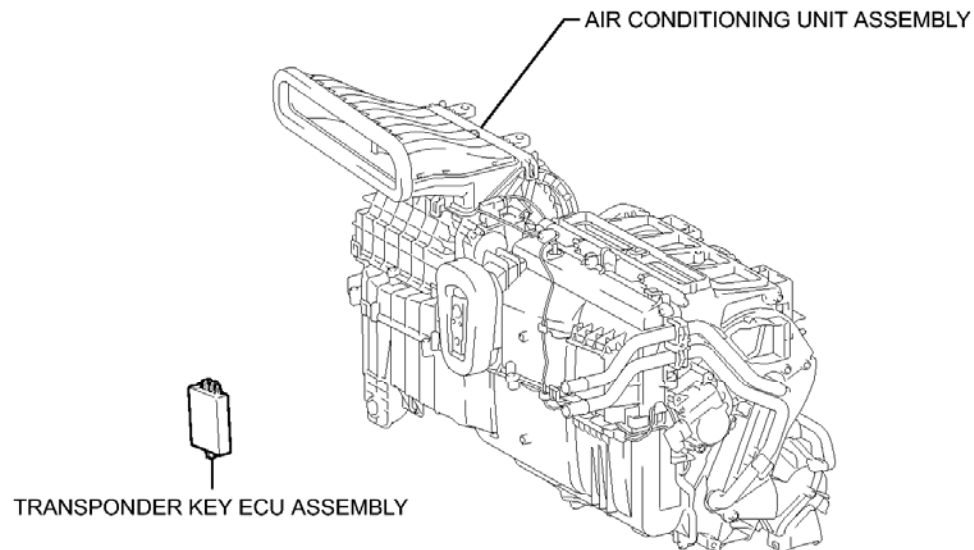
Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

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

TRANSPONDER KEY ECU

COMPONENTS

ILLUSTRATION



P

Fig. 26: Transponder Key ECU Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

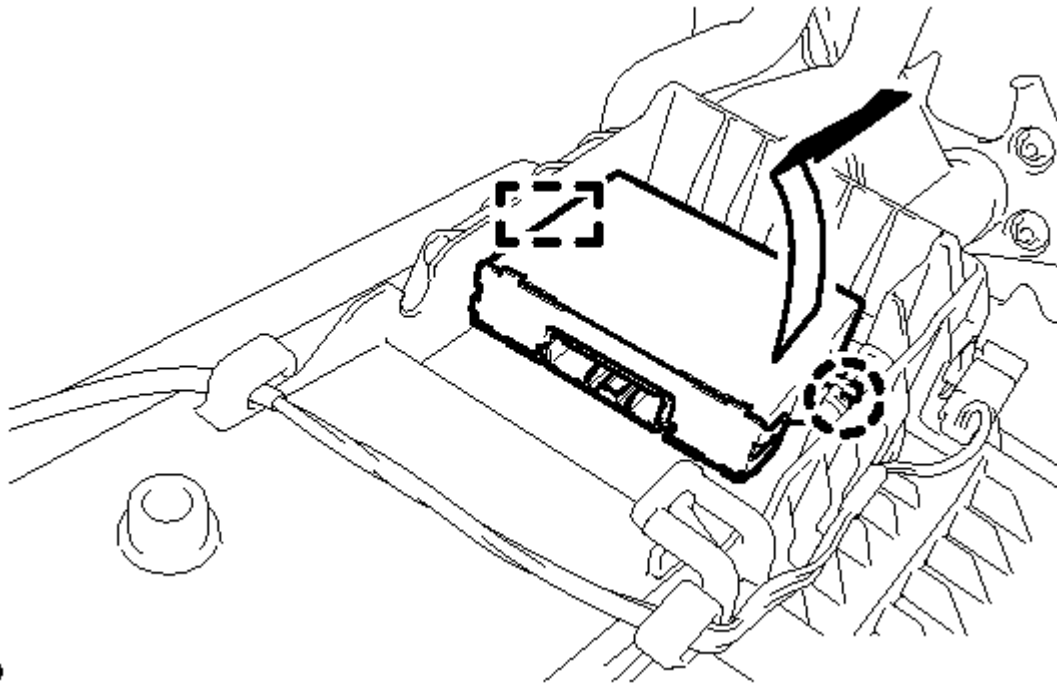
REMOVAL

1. REMOVE AIR CONDITIONING UNIT ASSEMBLY

Refer to **REMOVAL**

2. REMOVE TRANSPONDER KEY ECU ASSEMBLY

- a. Disengage the claw and guide and remove the transponder key ECU.



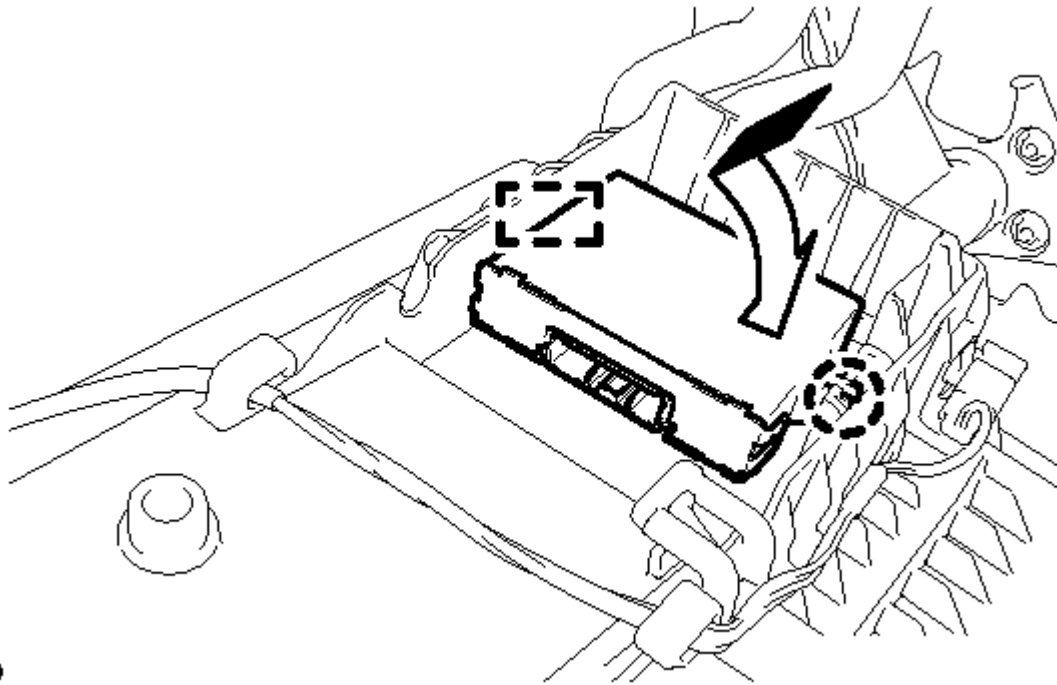
P

Fig. 27: Removing Transponder Key ECU Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

INSTALLATION

1. **INSTALL TRANSPONDER KEY ECU ASSEMBLY**
 - a. Engage the guide and claw and install the transponder key ECU.



P

Fig. 28: Installing Transponder Key ECU Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL AIR CONDITIONING UNIT ASSEMBLY

Refer to **INSTALLATION**

3. REGISTER KEY

NOTE: When replacing the transponder key ECU, perform registration. Refer to **REGISTRATION** .

CERTIFICATION ECU

COMPONENTS

ILLUSTRATION

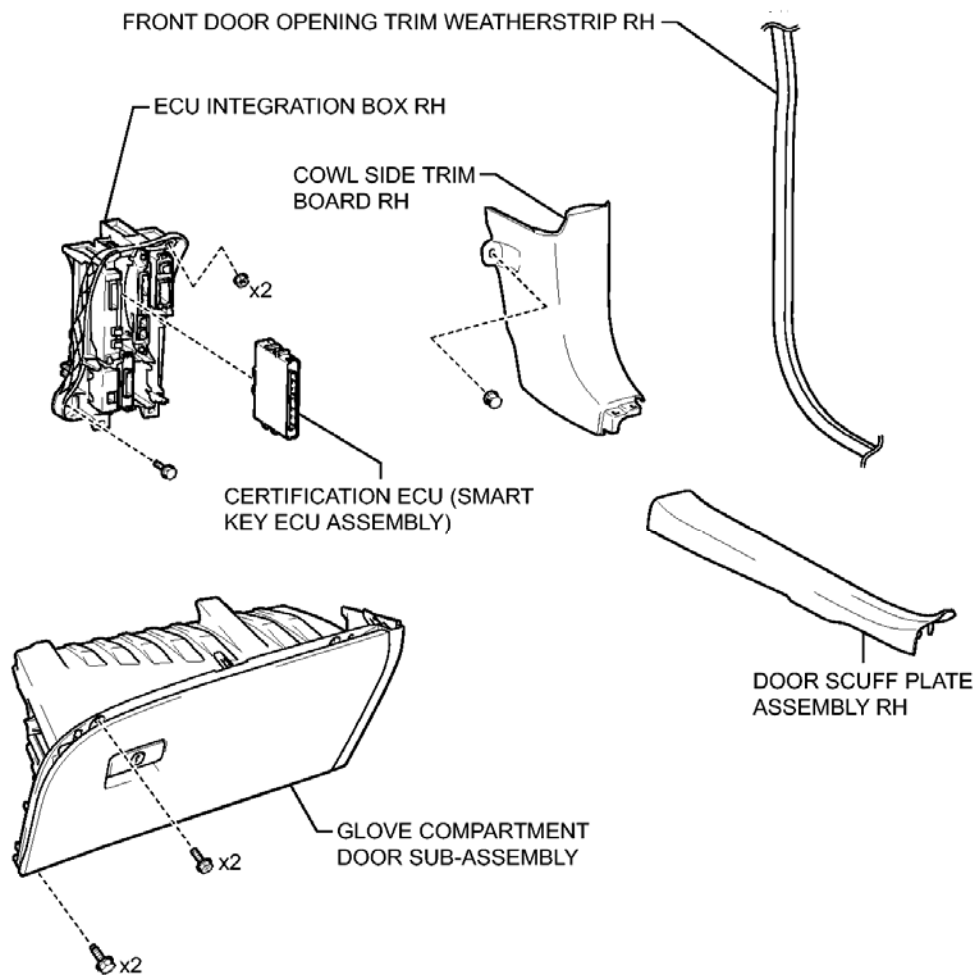


Fig. 29: Certification ECU Replacement Components
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

- a. Disconnect each connector.

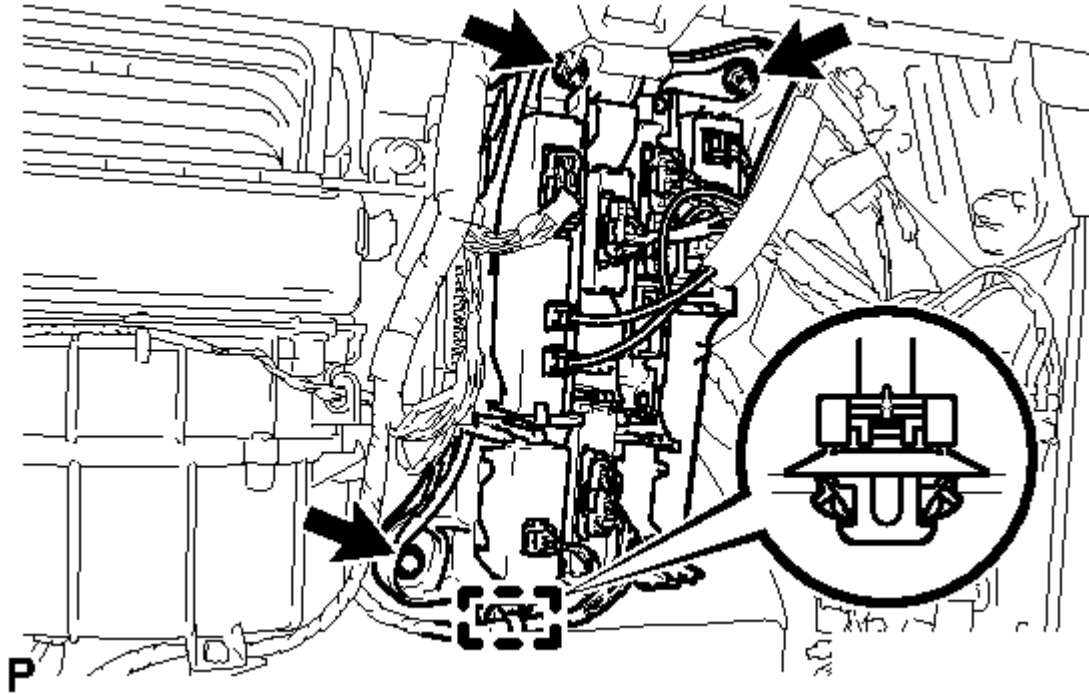


Fig. 30: Identifying ECU Integration Box RH, Connector, Clamp, Nuts & Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disengage the clamp.

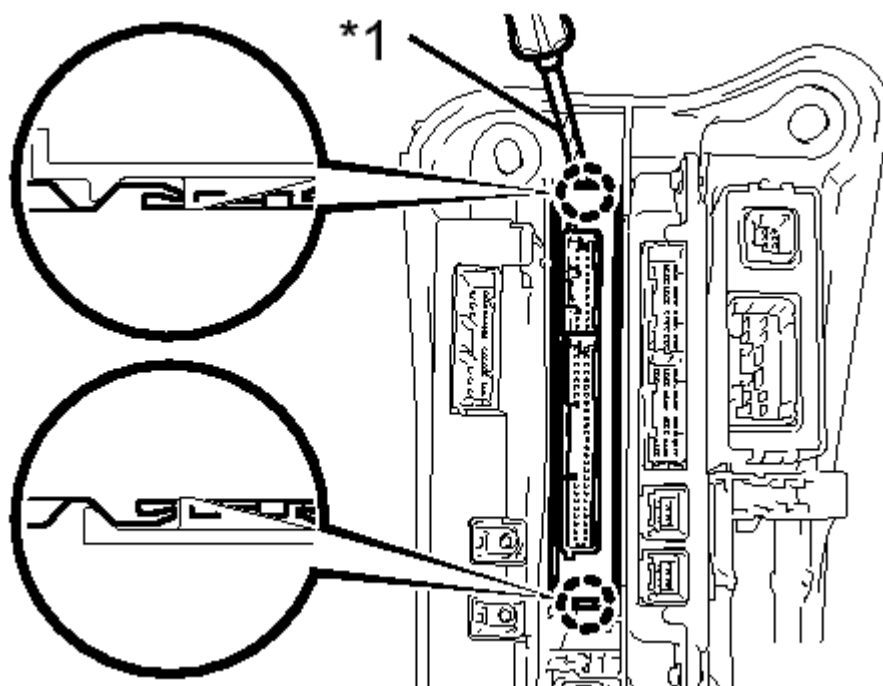
HINT:

If the vehicle is equipped with a wire harness clamp, disengage the clamp.

- c. Remove the 2 nuts and bolt and ECU integration box with each ECU.

7. REMOVE CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)

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



P

Fig. 31: Disengaging Certification ECU (Smart Key ECU Assembly) Claws With Screwdriver
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

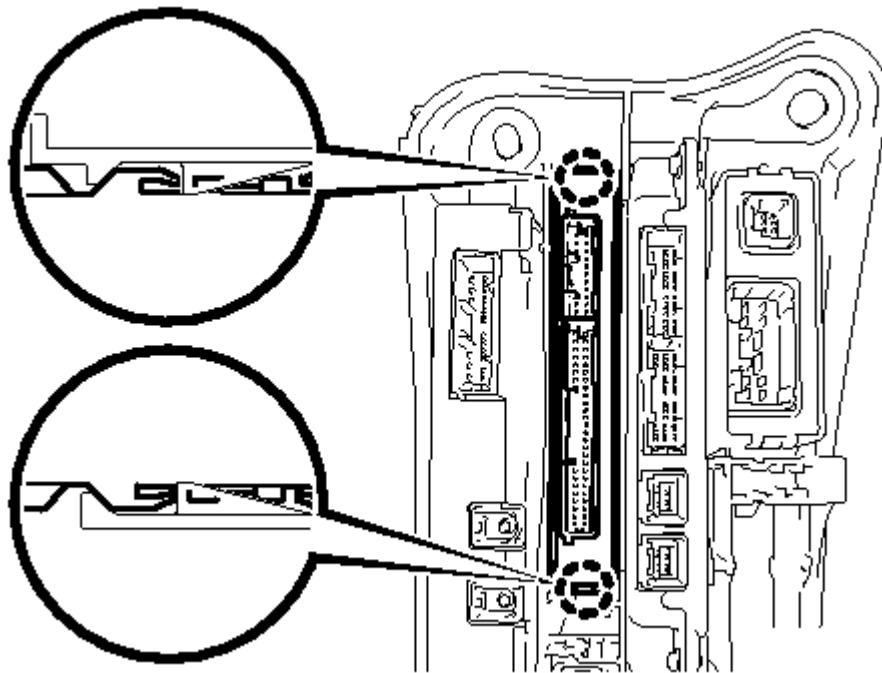
TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

INSTALLATION

INSTALLATION

- 1. INSTALL CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)**
 - a. Engage the 2 claws and install the certification ECU.



P

Fig. 32: Identifying Certification ECU (Smart Key ECU Assembly) Claws
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL ECU INTEGRATION BOX RH

- a. Install the ECU integration box with the 2 nuts and bolt.
- b. Engage the clamp.

HINT:

If the vehicle is equipped with a wire harness clamp, engage the clamp.

- c. Connect each connector.

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** .

8. REGISTER KEY

NOTE: When replacing the certification ECU (smart key ECU assembly), perform registration. Refer to REGISTRATION .

9. REGISTER ECU COMMUNICATION ID

NOTE: When replacing the certification ECU (smart key ECU assembly), perform registration. Refer to REGISTRATION .