

ACCESSORIES & EQUIPMENT

Door Lock System (Service Information) - Sienna

DOOR CONTROL TRANSMITTER

INSPECTION

INSPECTION

1. INSPECT DOOR CONTROL TRANSMITTER

- a. Inspect operation of the transmitter.
 1. Remove the battery (lithium battery) from the transmitter. Refer to **REPLACEMENT** .
 2. Install a new or non-depleted battery (lithium battery).

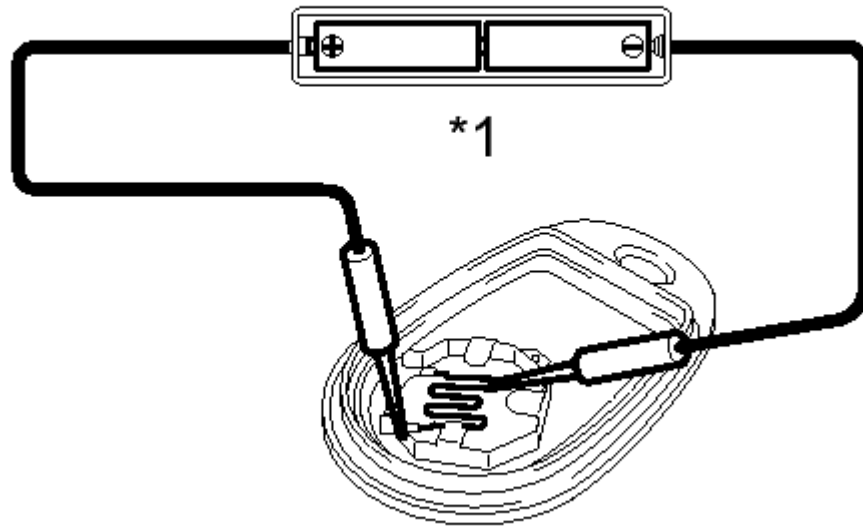


Fig. 1: Inspecting Door Control Transmitter Operation
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1 Battery

HINT:

When a new or non-depleted battery is not available, first connect 2 new 1.5 batteries in series. Then connect leads to the batteries and apply 3 V to the transmitter, as shown in the illustration.

3. From outside the vehicle, approximately 1 m (3.28 ft) from the driver side outside door handle, test the transmitter by pointing its key plate at the vehicle and pressing a transmitter switch.

OK

The door lock can be operated via the transmitter.

The LED comes on more than once.

- The operational area differs depending on the user, the way the transmitter is held and the location.
- The transmitter's faint electric waves may be affected if the area has strong electric waves or noise. The transmitter's operation area may be shortened or the transmitter may not function.

b. Inspect the battery capacity.

1. Remove the battery from the electrical key transmitter that does not operate. Attach a lead wire (0.6 mm (0.0236 in.) in diameter or less including wire sheath) with tape or equivalent to the negative terminal. Refer to **REPLACEMENT** .

NOTE: **Do not wrap the lead wire around a terminal, wedge it between the terminals, or solder it. A terminal may be deformed or damaged, and the battery will not be able to be installed correctly.**

2. Carefully pull the lead wire out from the position shown in the illustration and install the previously removed transmitter battery.

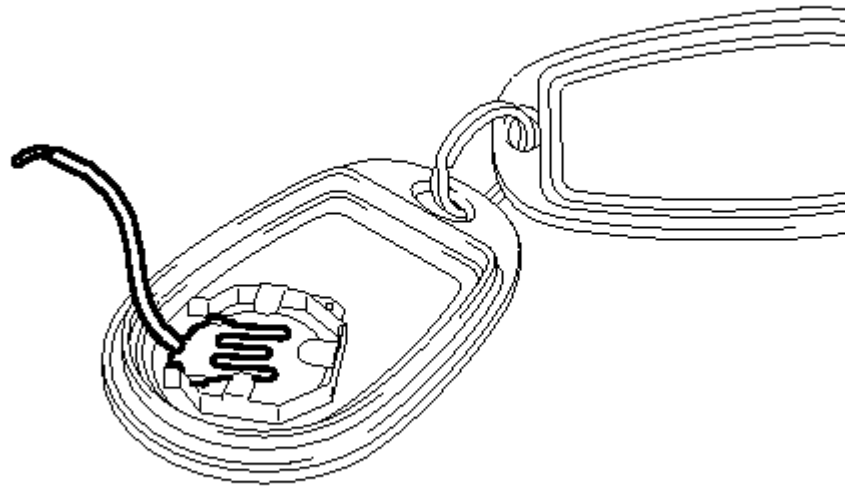


Fig. 2: Identifying Lead Wire

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

3. Using an oscilloscope, check the transmitter battery voltage waveform (see illustration below).

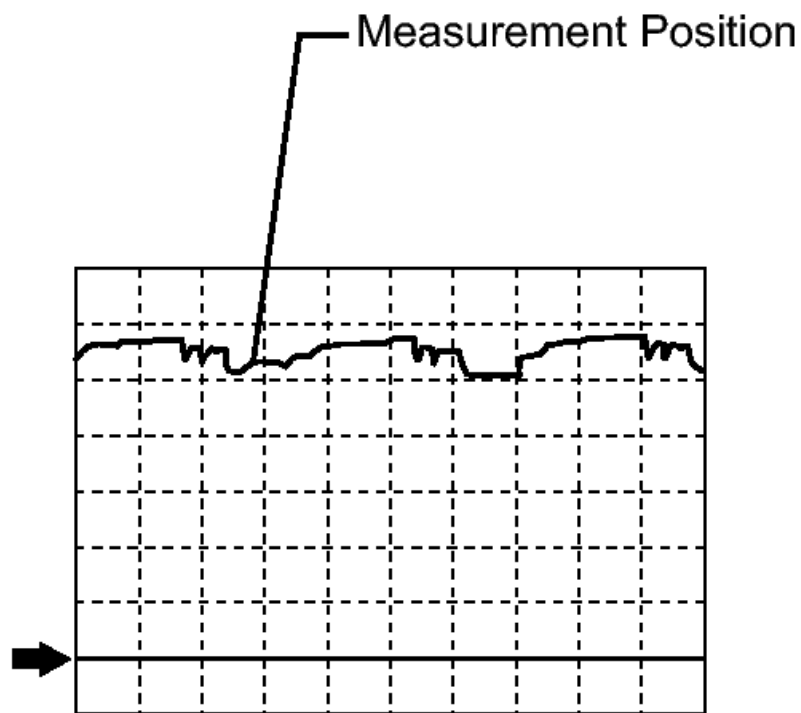
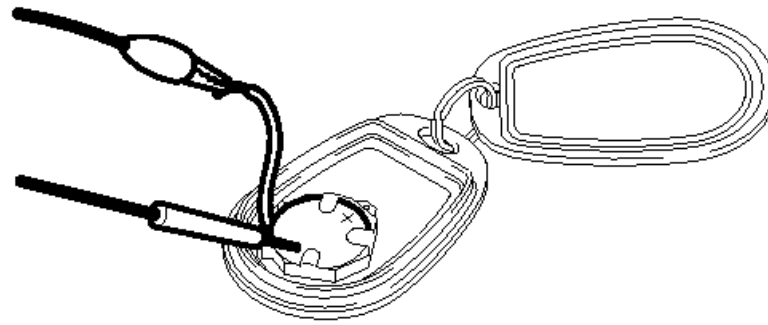


Fig. 3: Checking Transmitter Battery Voltage Waveform
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

Measure the transmitter battery voltage while pressing the LOCK or UNLOCK switch on the transmitter.

Standard Voltage

Item	Content
Tester Connection	Battery positive (+) - Battery negative (-)
Tool Setting	0.5 V/DIV., 100 ms/DIV.
Condition	Ignition switch off, all doors closed and lock switch pushed
Specified Condition	2.2 to 3.2 V (Refer to Fig. 3)

If the result is not as specified, replace the transmitter battery.

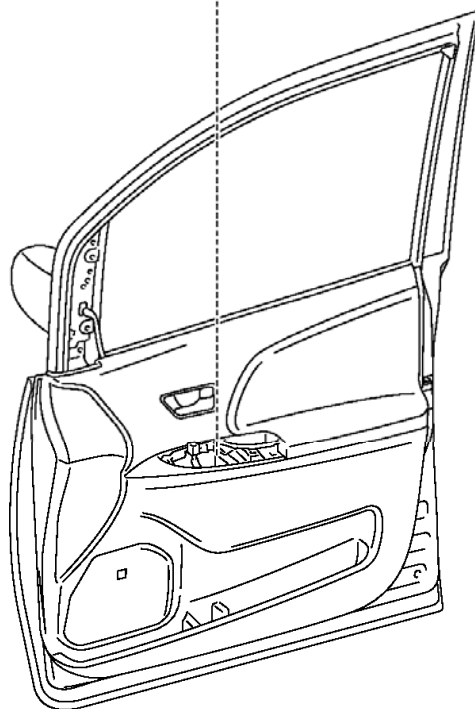
DOOR CONTROL SWITCH

COMPONENTS

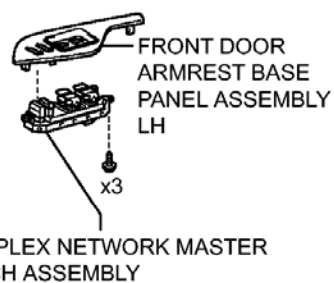
ILLUSTRATION

FRONT DOOR ARMREST BASE
PANEL ASSEMBLY RH

DOOR CONTROL SWITCH
ASSEMBLY



for Driver Side:



Y

Fig. 4: Door Control Switch Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE FRONT DOOR ARMREST BASE PANEL ASSEMBLY LH (for Driver Side)

HINT:

Use the same procedure as for the RH side. Refer to **DISASSEMBLY - Step 2** .

2. **REMOVE FRONT DOOR ARMREST BASE PANEL ASSEMBLY RH** . Refer to **DISASSEMBLY - Step 2**
3. **REMOVE DOOR CONTROL SWITCH ASSEMBLY**
 - a. Disengage the 2 claws and remove the door control switch.

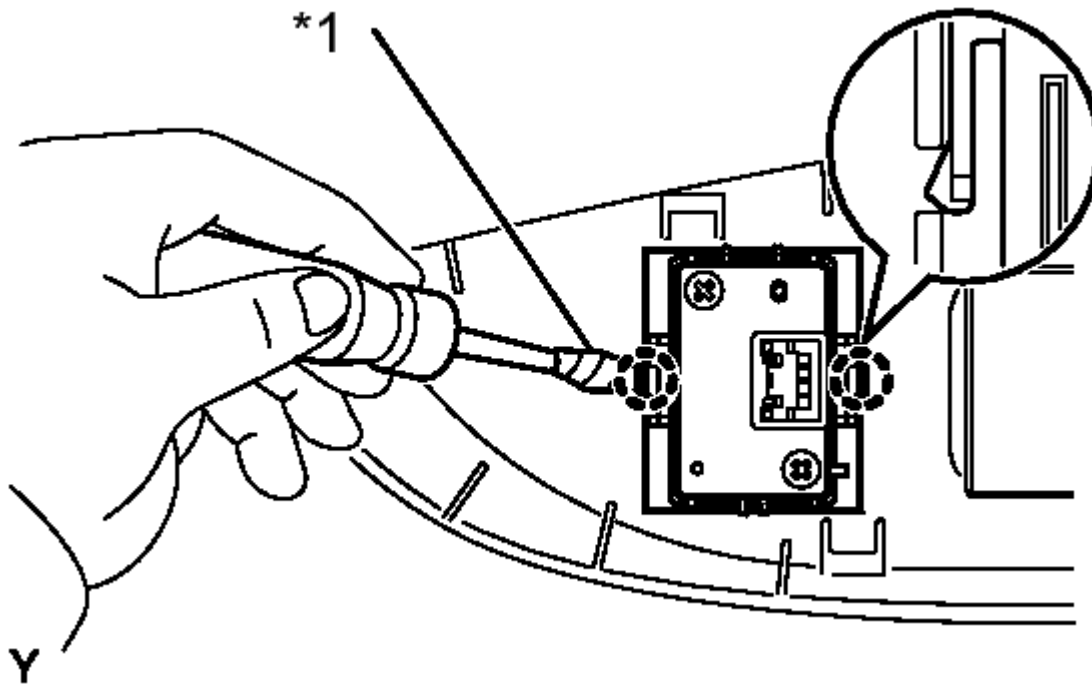
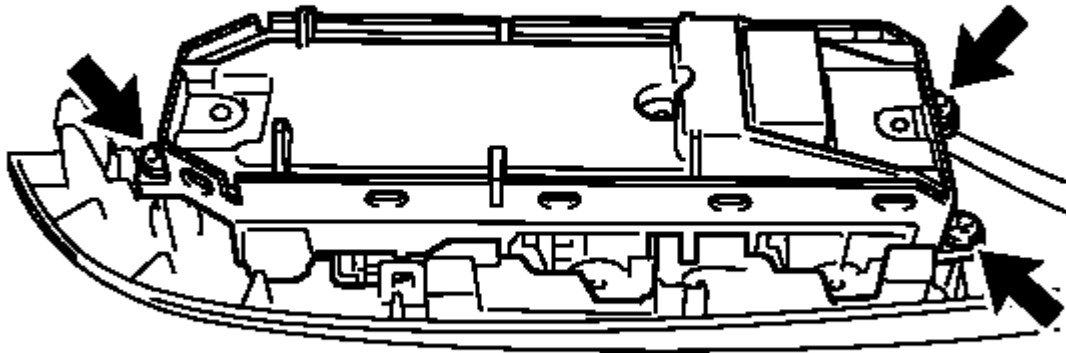


Fig. 5: Removing Door Control Switch Assembly & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Protective Tape
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4. **REMOVE MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY**
 - a. Remove the 3 screws and the multiplex network master switch.



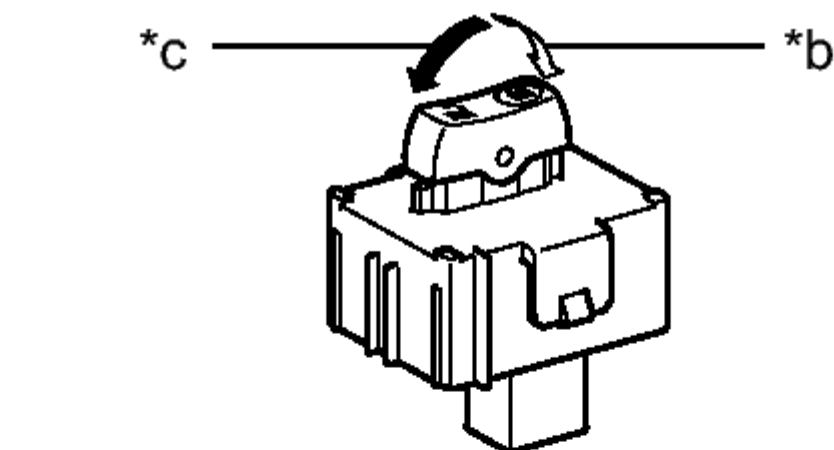
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Fig. 6: Identifying Multiplex Network Master Switch Assembly Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

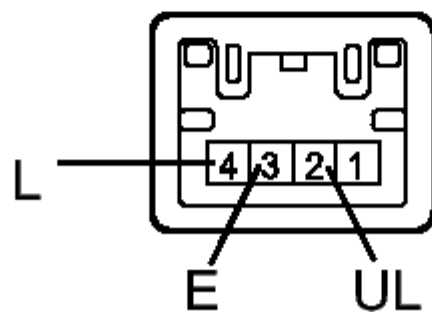
INSPECTION

INSPECTION

- 1. INSPECT DOOR CONTROL SWITCH ASSEMBLY**
 - a. Check the resistance of the door control switch.



*a



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Fig. 7: Door Control Switch Assembly Connector End View
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

TEXT IN ILLUSTRATION

*a	Component without harness connected (Door Control Switch)
*b	Lock
*c	Unlock

Standard Resistance

Tester Connection	Switch Condition	Specified Condition
4 (L) - 3 (E)	LOCK	Below 1 ohms
4 (L) - 3 (E)	OFF	10 kohms or higher
2 (UL) - 3 (E)	OFF	10 kohms or higher
2 (UL) - 3 (E)	UNLOCK	Below 1 ohms

If the result is not as specified, replace the door control switch.

INSTALLATION

INSTALLATION

1. **INSTALL MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY**
 - a. Install the multiplex network master switch with 3 screws.
2. **INSTALL DOOR CONTROL SWITCH ASSEMBLY**
 - a. Engage the 2 claws and install the door control switch.
3. **INSTALL FRONT DOOR ARMREST BASE PANEL ASSEMBLY LH (for Driver Side)**

HINT:

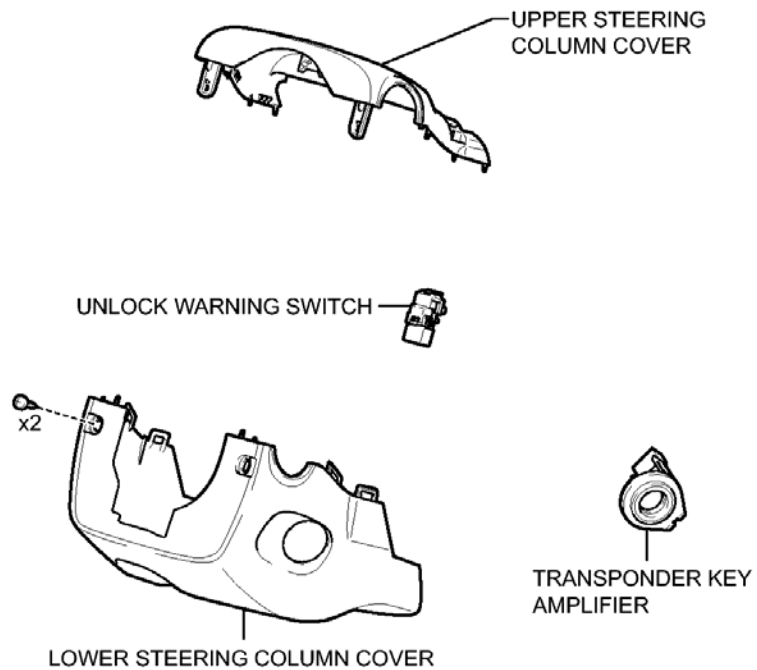
Use the same procedure as for the RH side. Refer to **REASSEMBLY - Step 33** .

4. **INSTALL FRONT DOOR ARMREST BASE PANEL ASSEMBLY RH** . Refer to **REASSEMBLY - Step 33**

UNLOCK WARNING SWITCH

COMPONENTS

ILLUSTRATION



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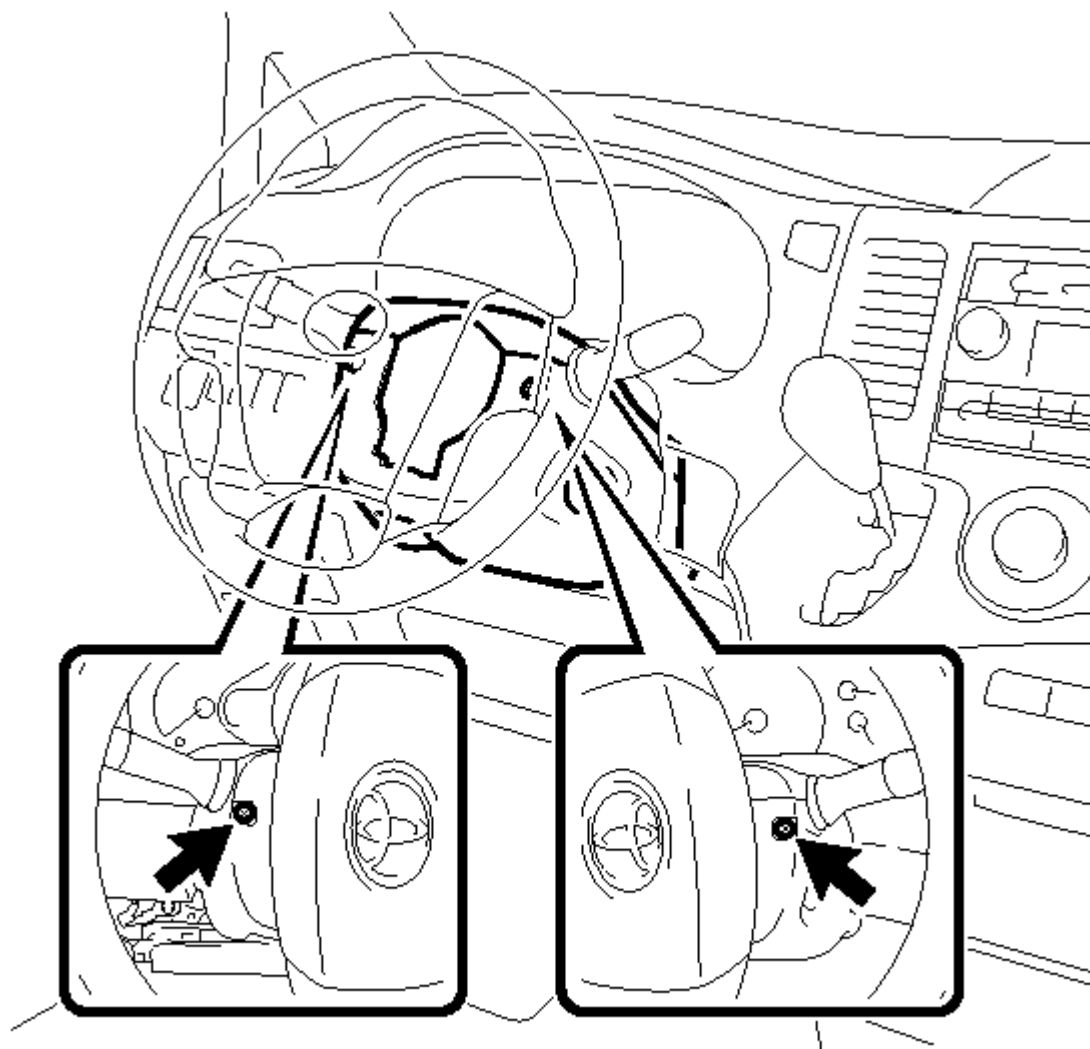
Fig. 8: Unlock Warning Switch Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE LOWER STEERING COLUMN COVER

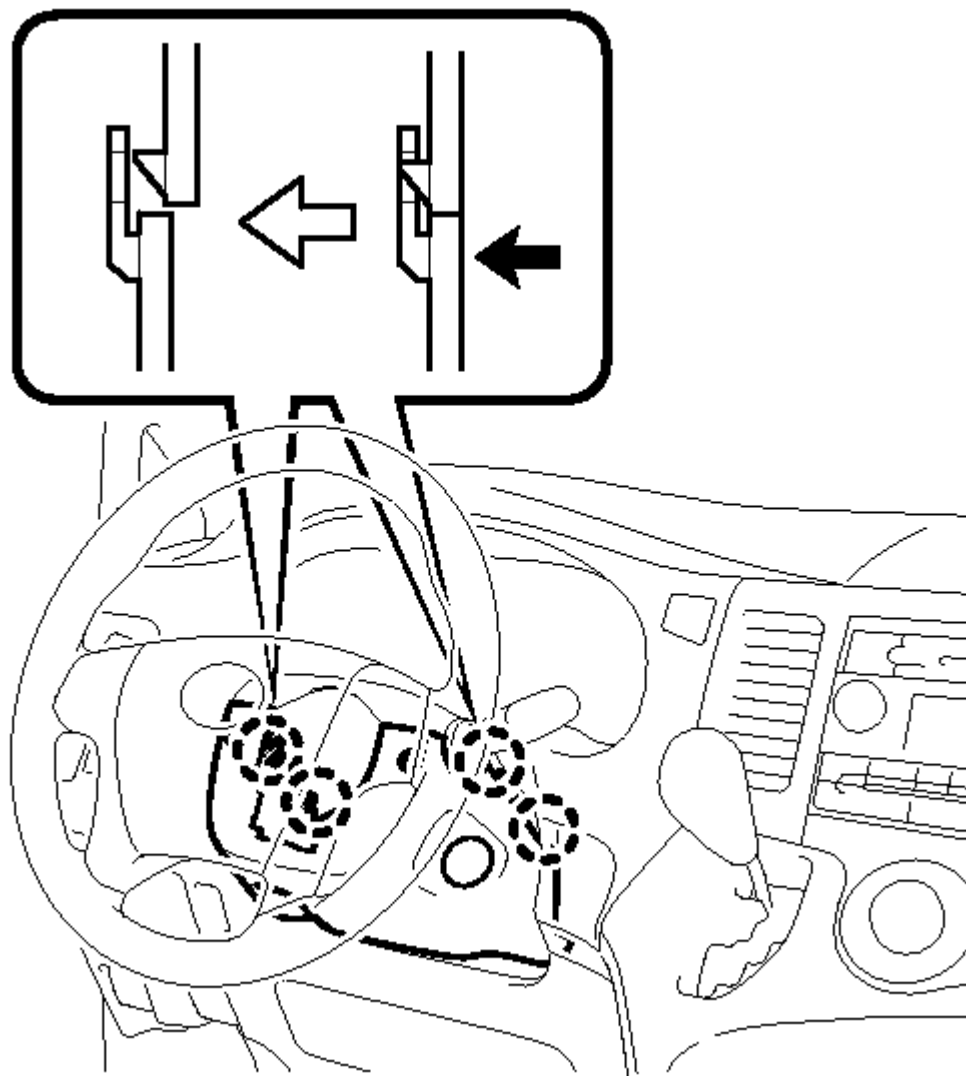
- While turning the steering wheel to the right and left, remove the 2 screws.



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Fig. 9: Identifying Lower Steering Column Cover & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Push the right and left sides of the lower steering column cover, and disengage the 4 claws.



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Fig. 10: Identifying Lower Steering Column Cover & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Insert fingers into the opening of the tilt lever of the lower steering column cover to detach the claw and lower steering column cover.

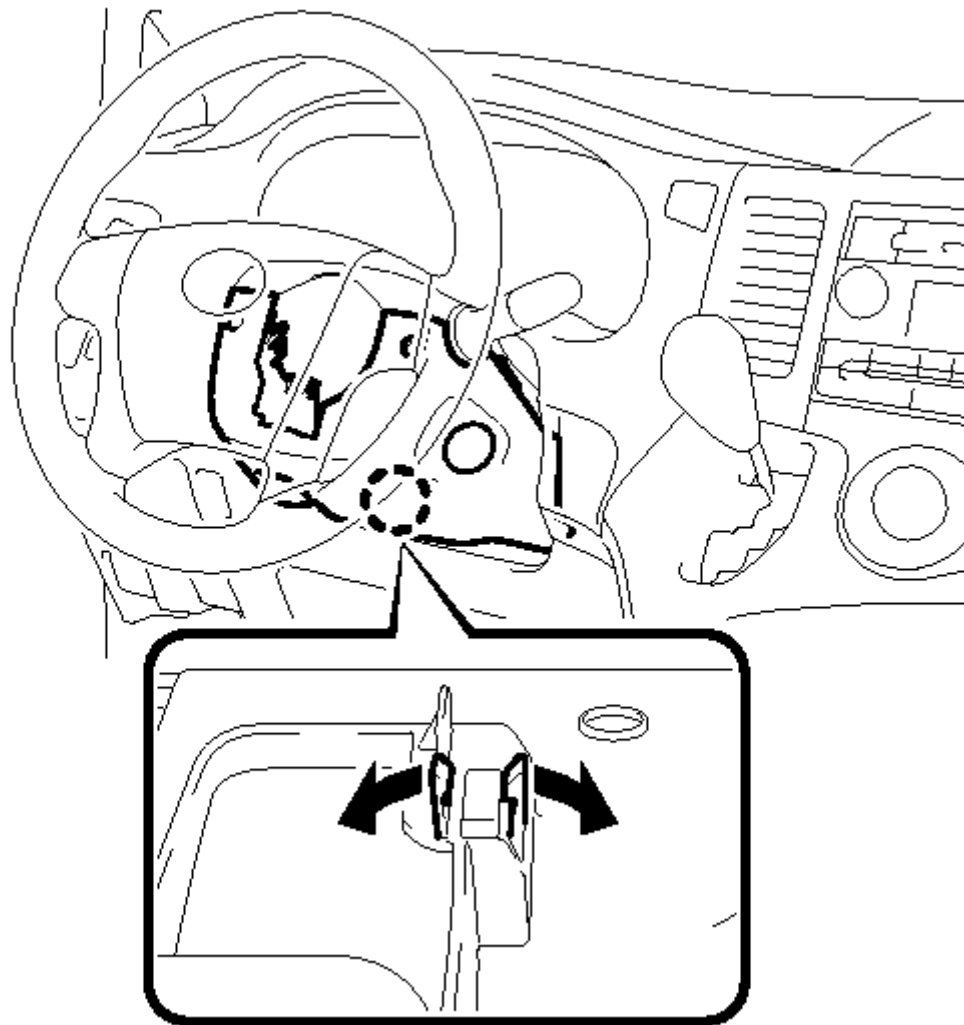
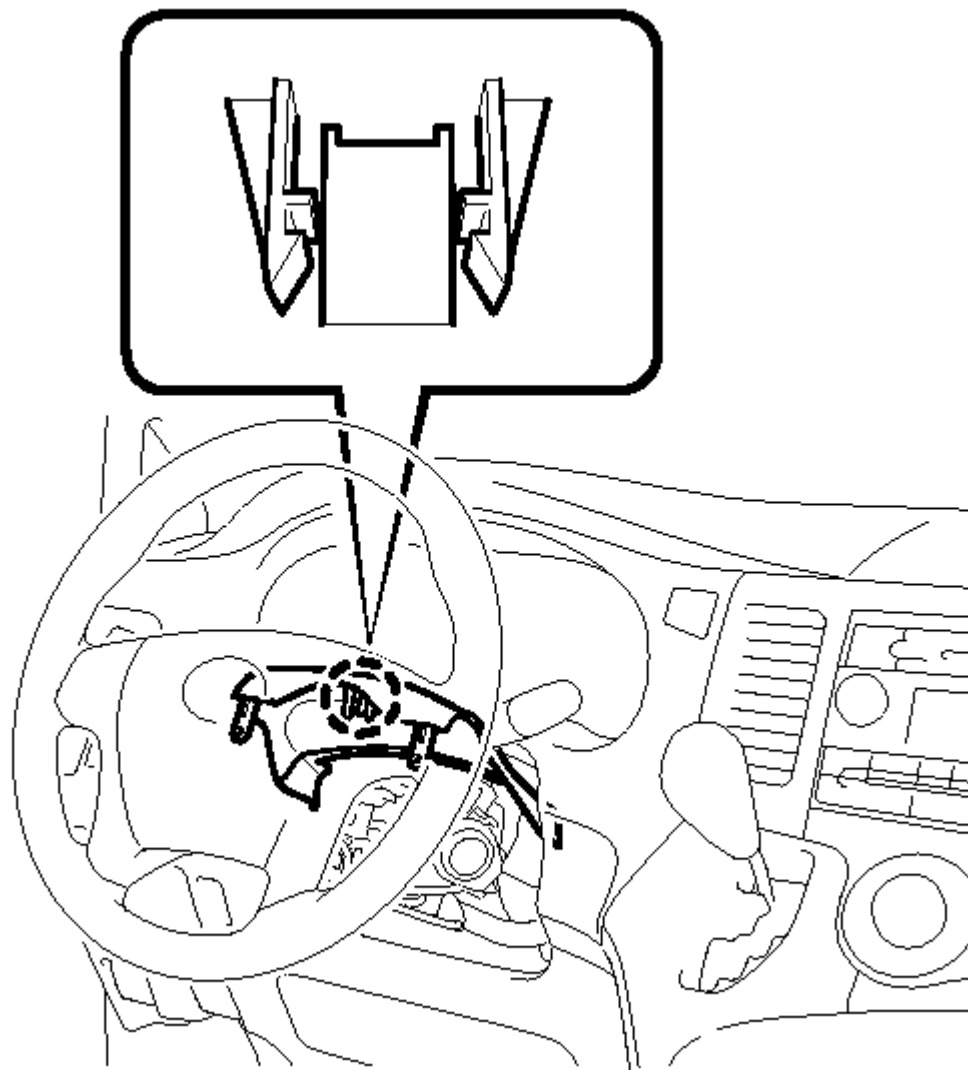


Fig. 11: Identifying Lower Steering Column Cover & Tilt Lever
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. REMOVE UPPER STEERING COLUMN COVER

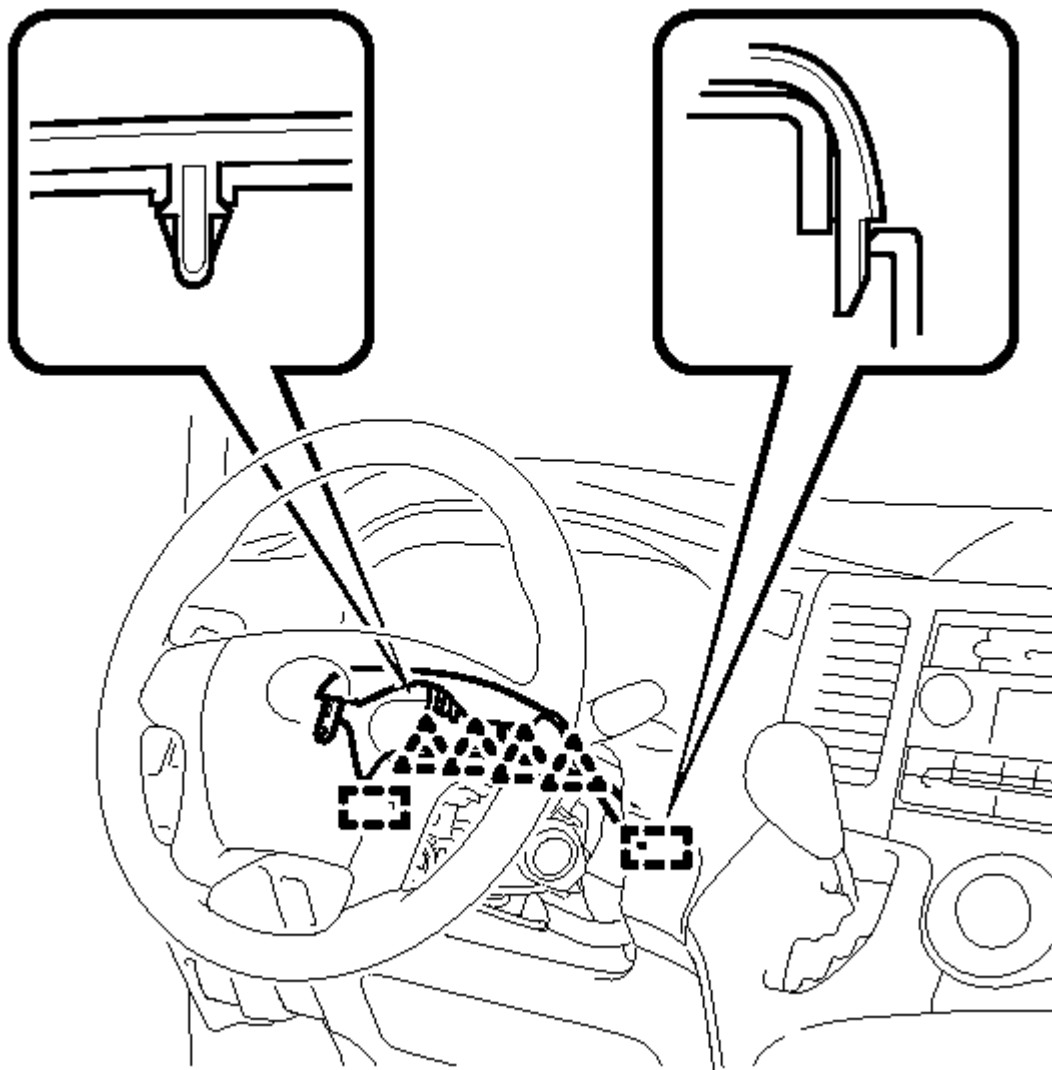
- a. Disengage the claw.



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Fig. 12: Identifying Upper Steering Column Cover & Claw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

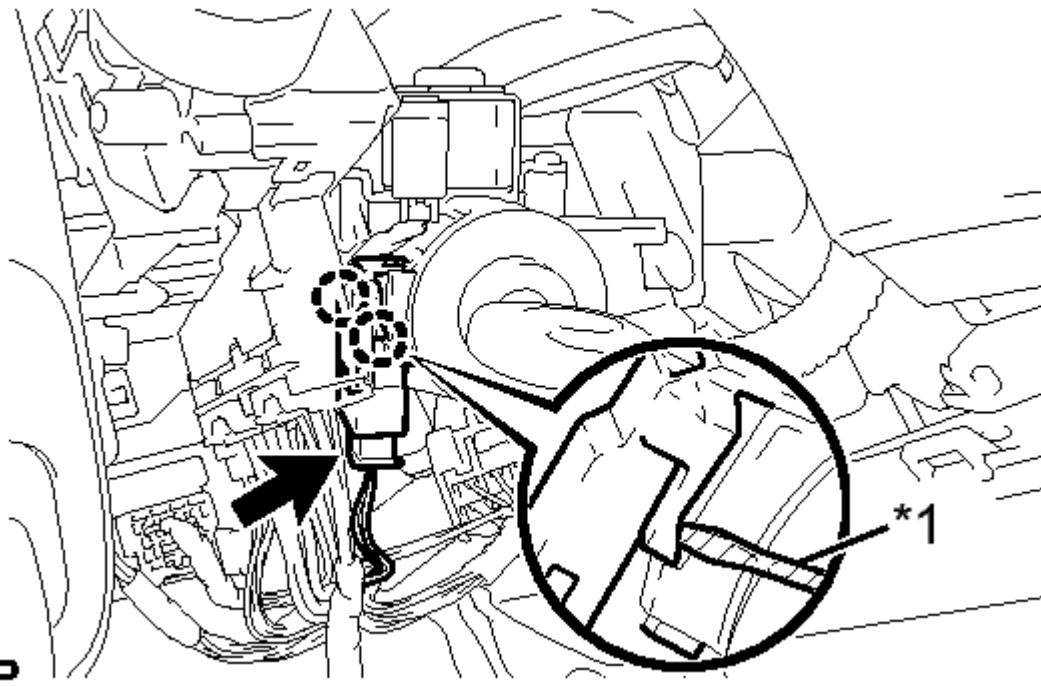
- b. Disengage the 4 clips and 2 guides, and remove the upper steering column cover.



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Fig. 13: Identifying Upper Steering Column Cover & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **REMOVE TRANSPONDER KEY AMPLIFIER** . Refer to **REMOVAL - Step 3**
4. **REMOVE UNLOCK WARNING SWITCH**
 - a. Disconnect the connector.



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Fig. 14: Identifying Unlock Warning Switch, Claws & Connector
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Protective Tape
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- b. Insert the key into the ignition key cylinder.
- c. Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws.

INSPECTION

INSPECTION

1. INSPECT UNLOCK WARNING SWITCH

*a

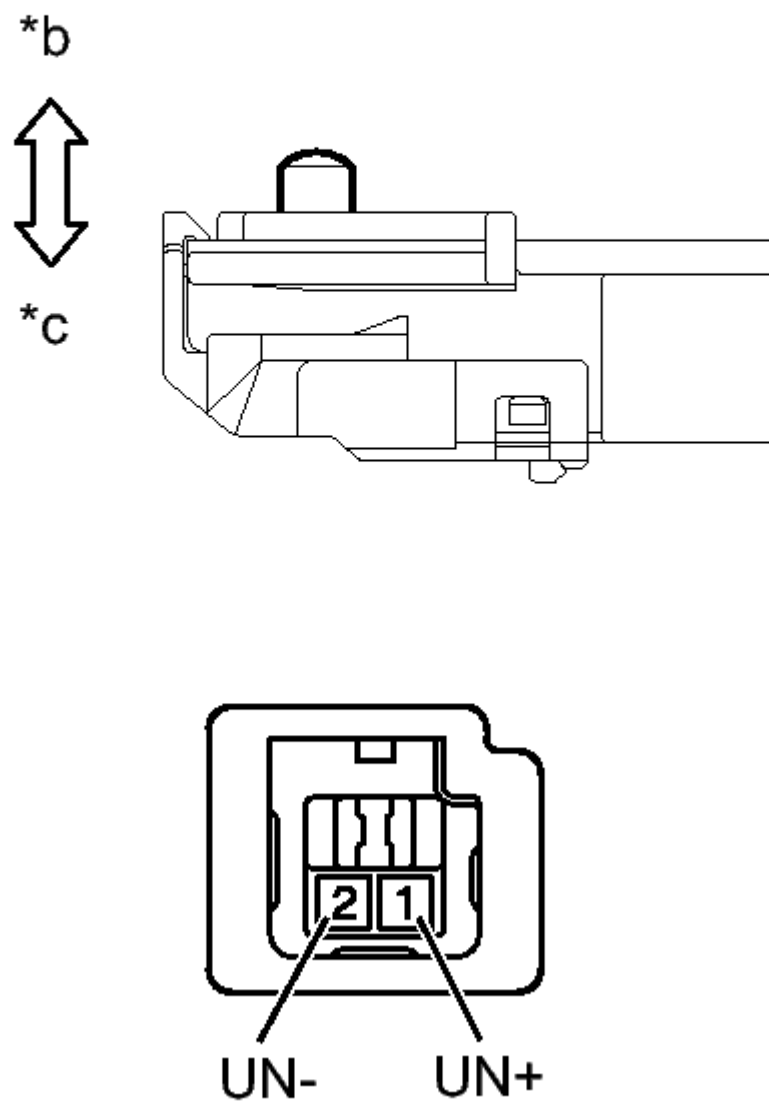


Fig. 15: Unlock Warning Switch Connector End View
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Check the resistance.

TEXT IN ILLUSTRATION

*a	Component without harness connected (Unlock Warning Switch)
*b	Free
*c	Push

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

Standard Resistance

Tester Connection	Switch Condition	Specified Condition
1 (UN+) - 2 (UN-)	Pin released (Free)	10 kohms or higher
1 (UN+) - 2 (UN-)	Pin pushed in	Below 1 ohms

If the result is not as specified, replace the unlock warning switch.

INSTALLATION

INSTALLATION

1. INSTALL UNLOCK WARNING SWITCH

- a. Engage the 2 claws and install the unlock warning switch.

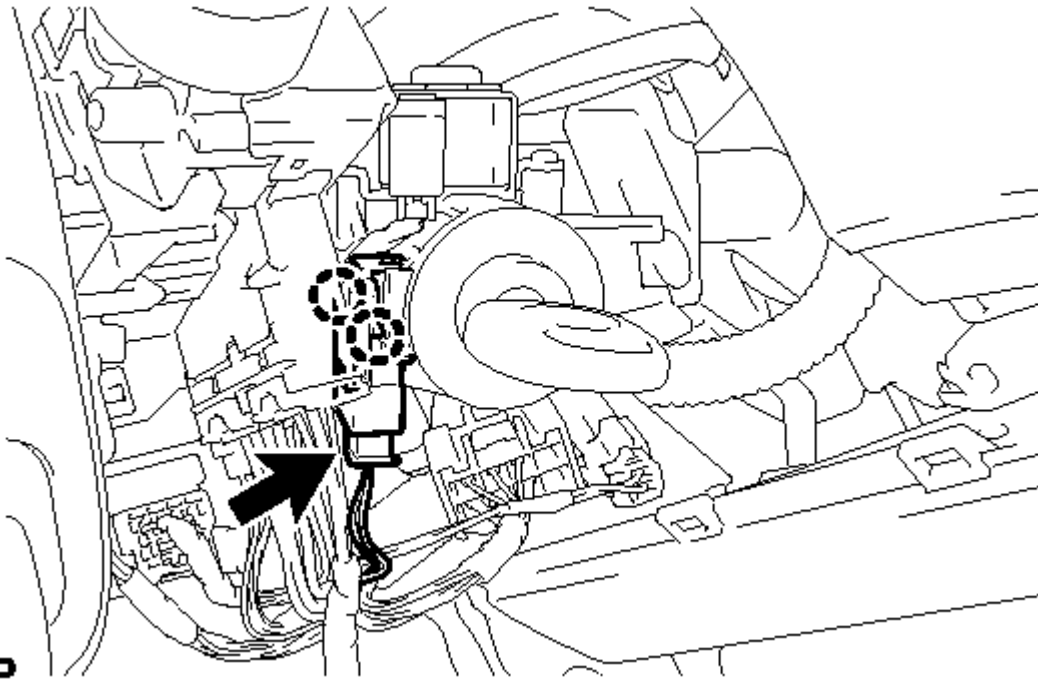


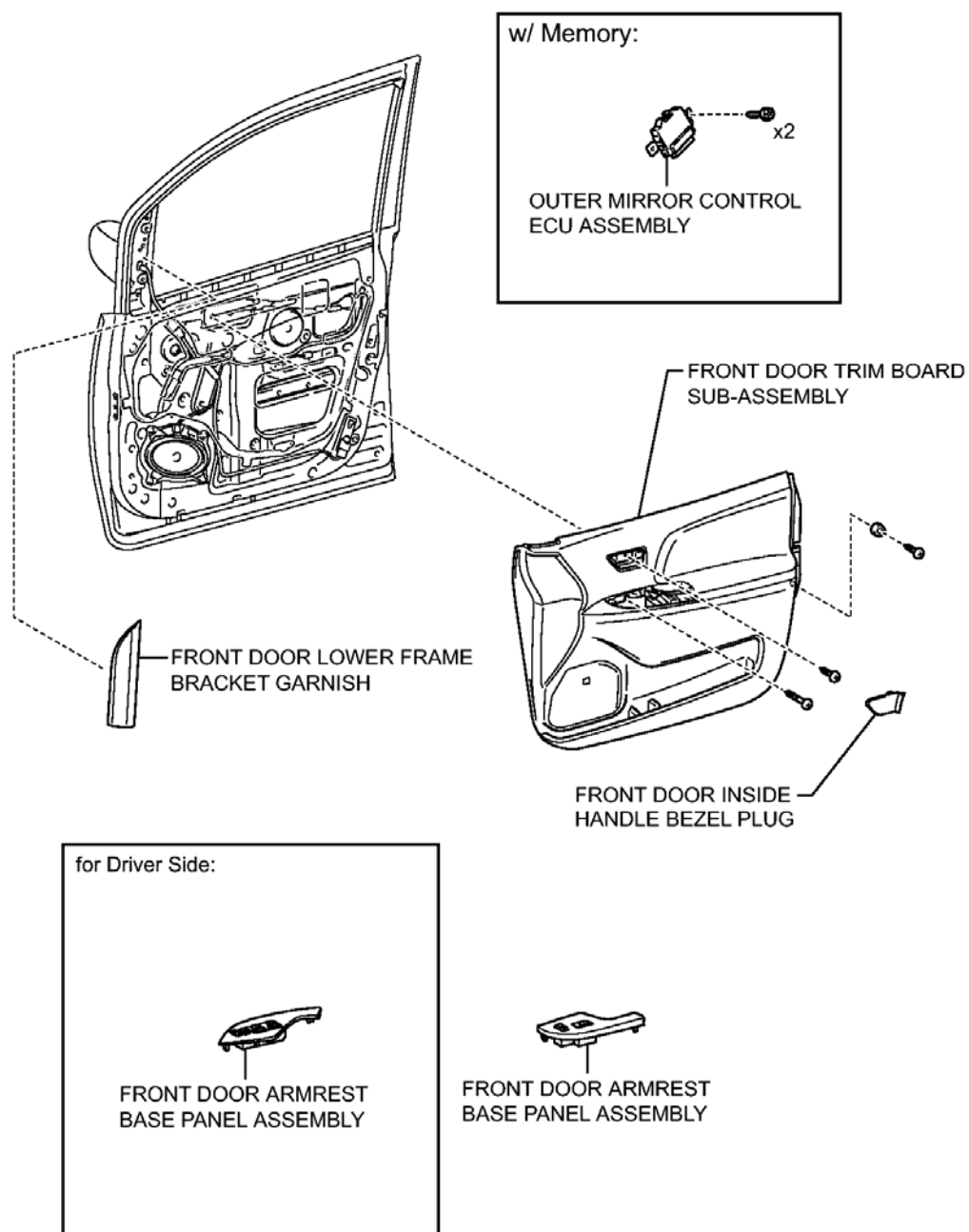
Fig. 16: Identifying Unlock Warning Switch, Claws & Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Connect the connector.
- 2. **INSTALL TRANSPONDER KEY AMPLIFIER** . Refer to **INSTALLATION - Step 1**
- 3. **INSTALL UPPER STEERING COLUMN COVER**
 - a. Engage the 4 clips and 2 guides to install the upper steering column cover onto the instrument panel cluster finish panel.
 - b. Engage the claw to install the upper steering column cover.
- 4. **INSTALL LOWER STEERING COLUMN COVER**
 - a. Engage the 2 claws to install the lower steering column cover.
 - b. While turning the steering wheel to the right and left, install the 2 screws and the lower steering column cover.

FRONT DOOR LOCK

COMPONENTS

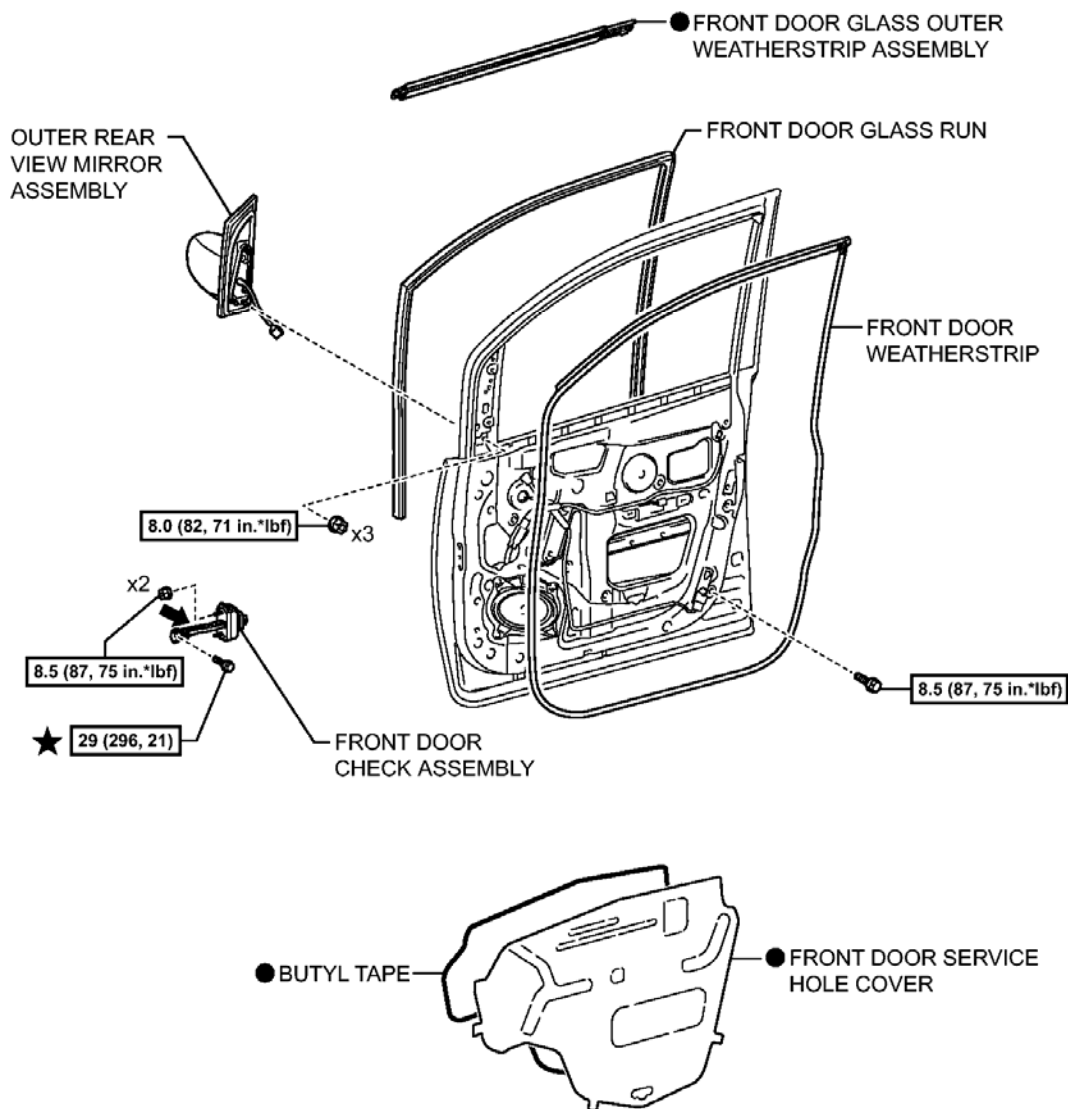
ILLUSTRATION



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Fig. 17: Front Door Lock 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

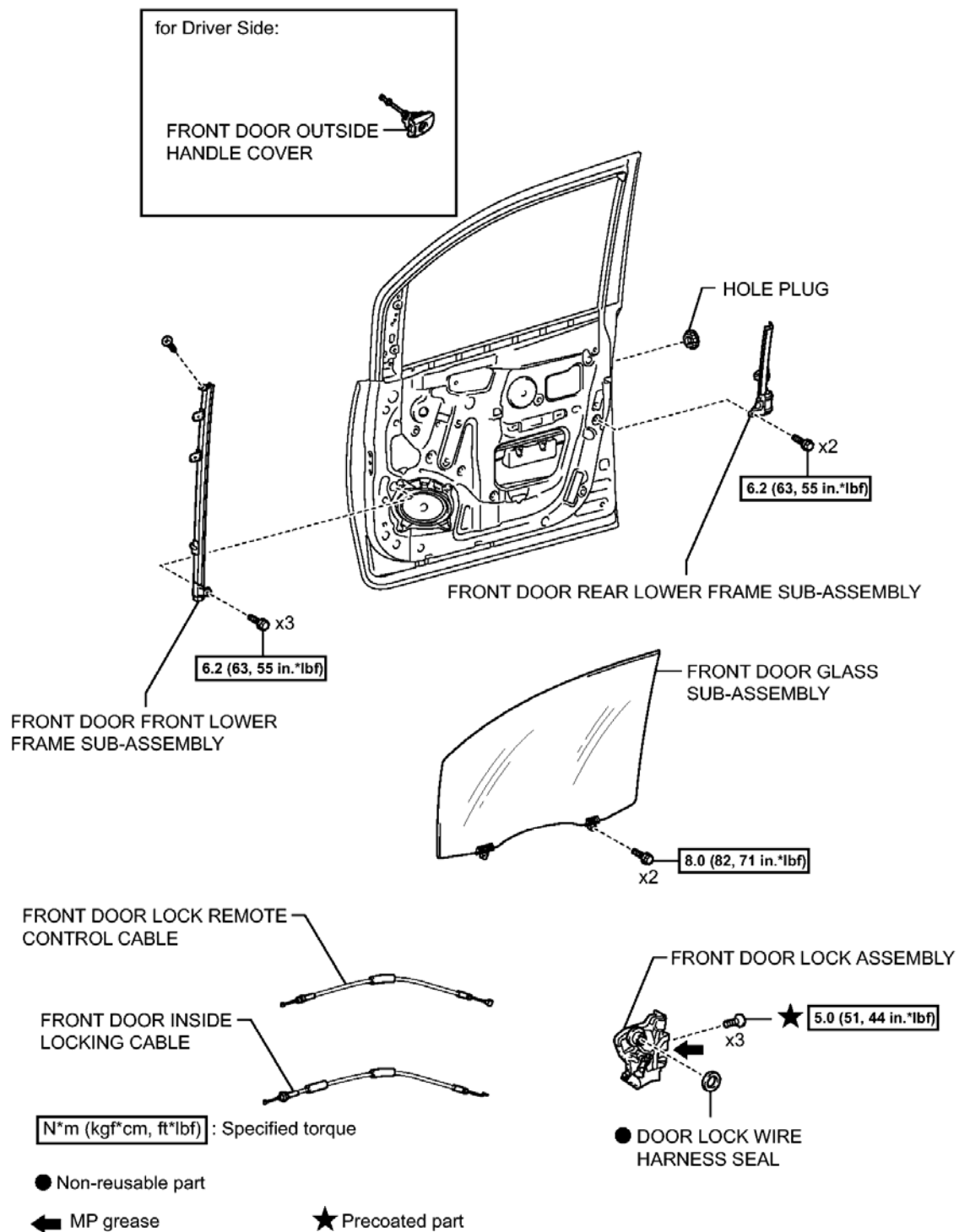
← MP grease

★ Precoated part

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Fig. 18: Front Door Lock Replacement Components With Torque Specifications (2 of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



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Fig. 19: Front Door Lock Replacement Components With Torque Specifications (3 of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

- Use the same procedure for both the RH and LH sides.
 - The procedure described below is for the RH side.
1. **REMOVE FRONT DOOR ARMREST BASE PANEL ASSEMBLY** . Refer to **DISASSEMBLY - Step 2**
 2. **REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH** . Refer to **DISASSEMBLY - Step 4**
 3. **REMOVE FRONT DOOR INSIDE HANDLE BEZEL PLUG** . Refer to **DISASSEMBLY - Step 3**
 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 OUTER REAR VIEW MIRROR ASSEMBLY**

HINT:

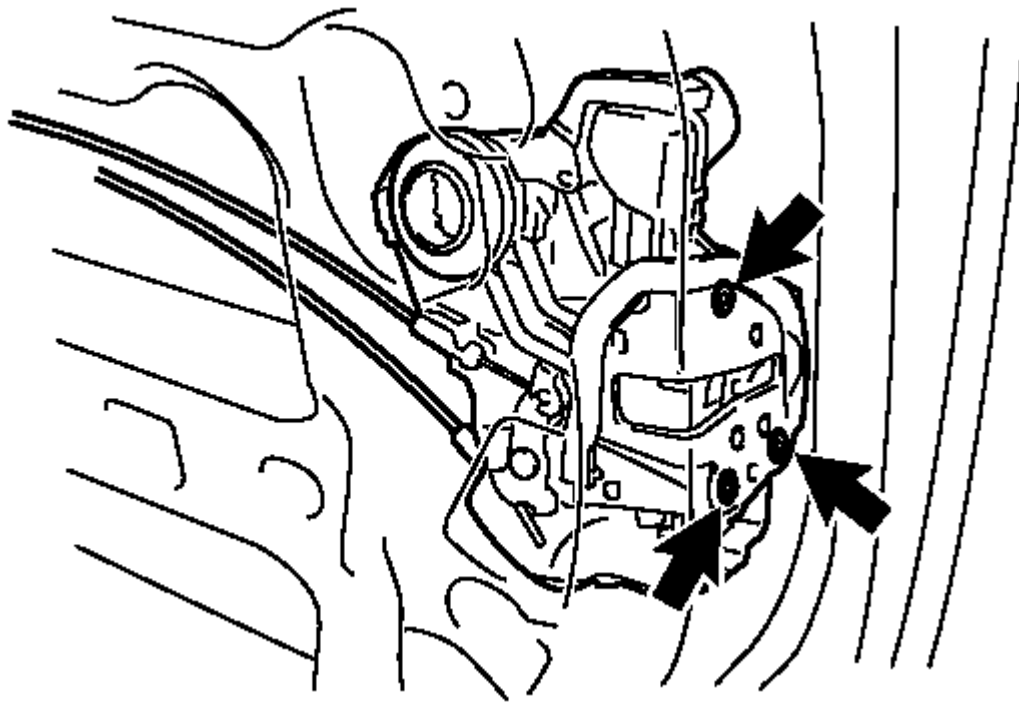
Use the same procedure as for the LH side. Refer to **REMOVAL - Step 6** .

8. **REMOVE FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**

HINT:

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

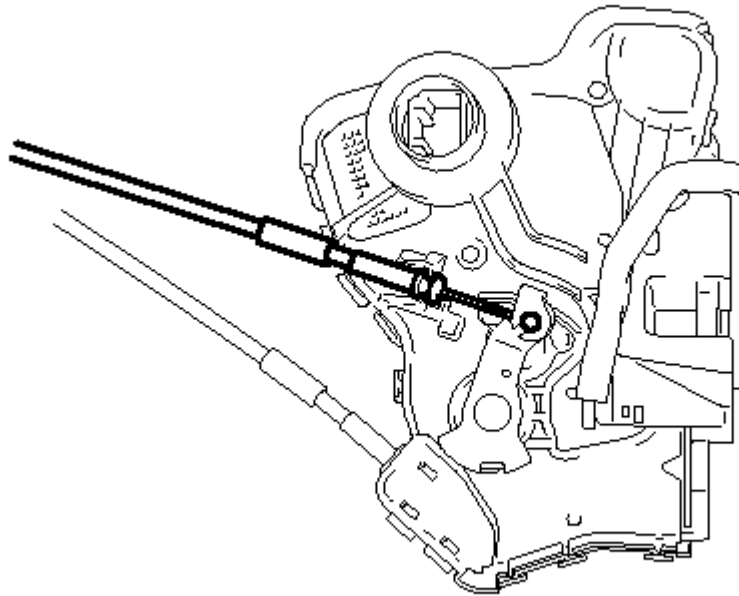
9. **REMOVE FRONT DOOR CHECK ASSEMBLY** . Refer to **DISASSEMBLY - Step 15**
10. **REMOVE FRONT DOOR WEATHERSTRIP** . Refer to **DISASSEMBLY - Step 16**
11. **REMOVE FRONT DOOR GLASS RUN** . Refer to **DISASSEMBLY - Step 17**
12. **REMOVE FRONT DOOR FRONT LOWER FRAME SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 18**
13. **REMOVE FRONT DOOR GLASS SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 19**
14. **REMOVE FRONT DOOR REAR LOWER FRAME SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 20**
15. **REMOVE FRONT DOOR OUTSIDE HANDLE COVER (for Driver Side)** . Refer to **DISASSEMBLY - Step 23**
16. **REMOVE FRONT DOOR LOCK ASSEMBLY**
 - a. Disconnect the connector.
 - b. Using a T30 "TORX" socket wrench, remove the 3 screws.



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Fig. 20: Identifying Front Door Lock Assembly & Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Slide the front door lock downward, pull out the front door lock open rod from the outside handle frame, and remove the front door lock and cables as a unit.
 - d. Remove the front door lock open rod from the front door lock.
 - e. Remove the door lock wire harness seal from the front door lock.
17. **REMOVE FRONT DOOR LOCK REMOTE CONTROL CABLE**
- a. Remove the front door lock remote control cable.

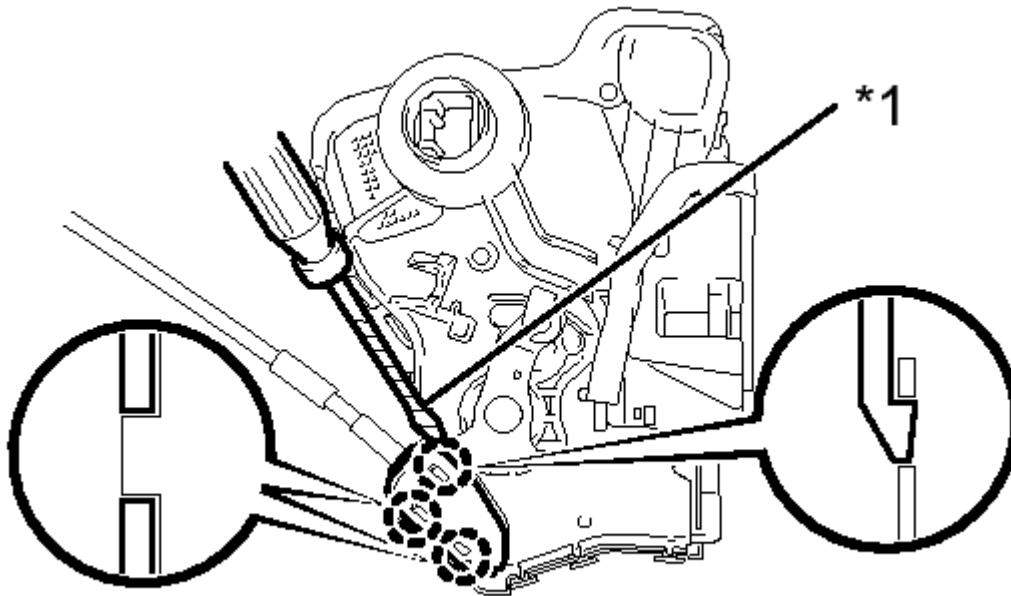


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Fig. 21: Identifying Front Door Lock Remote Control Cable
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

18. REMOVE FRONT DOOR INSIDE LOCKING CABLE

- a. Using a screwdriver with its tip wrapped in protective tape, disengage the 3 claws and open the cover.



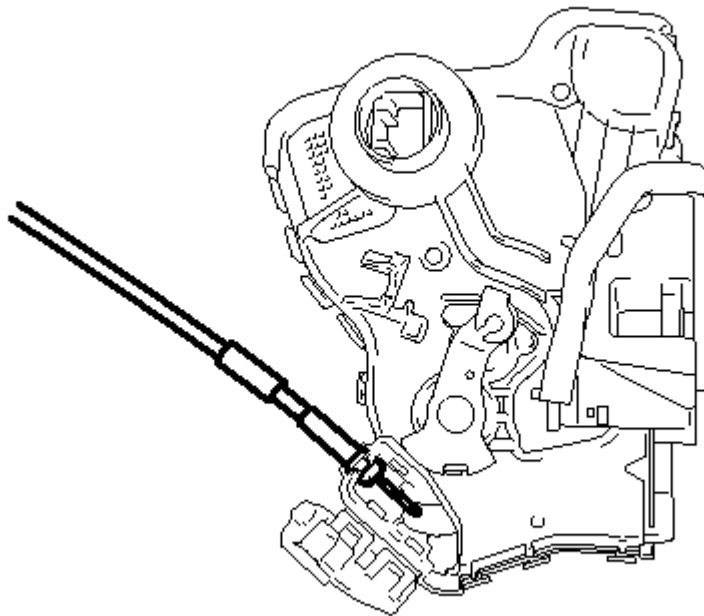
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Fig. 22: Removing Front Door Inside Locking Cable Using Screwdriver
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



- b. Remove the front door inside locking cable.



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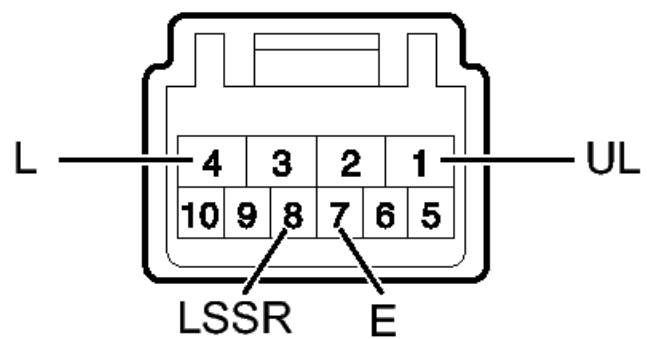
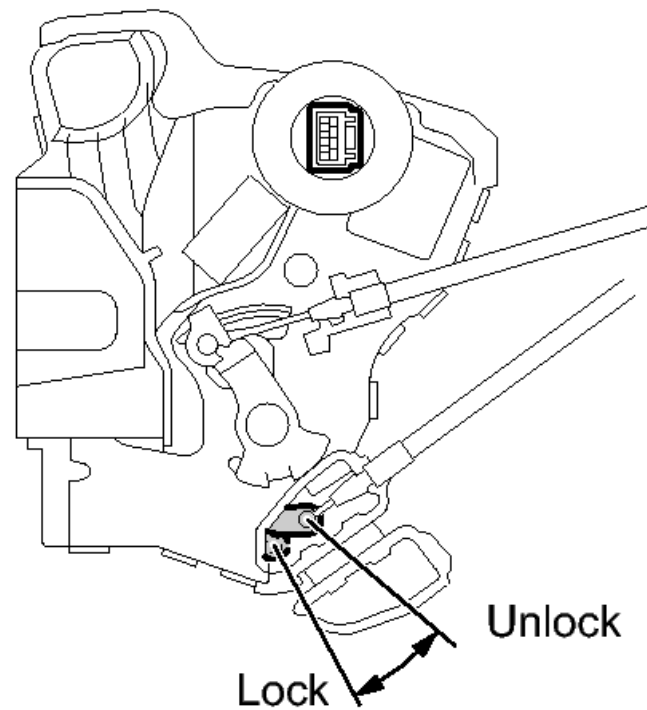
Fig. 23: Identifying Front Door Inside Locking Cable
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

INSPECTION

1. **INSPECT FRONT DOOR LOCK ASSEMBLY LH**
 - a. Check the operation of the door lock motor.

*a



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Fig. 24: Inspecting Front Door Lock Assembly LH Operation
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (Front Door Lock LH)
----	--

1. Apply battery voltage to the motor terminals.

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 4 (L) Battery negative (-) -- > 1 (UL)	Locks
Battery positive (+) -- > 1 (UL) Battery negative (-) -- > 4 (L)	Unlocks

If the result is not as specified, replace the door lock.

- b. w/ Unlock detection switch:

Check the resistance of the unlock detection switch.

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

Standard Resistance

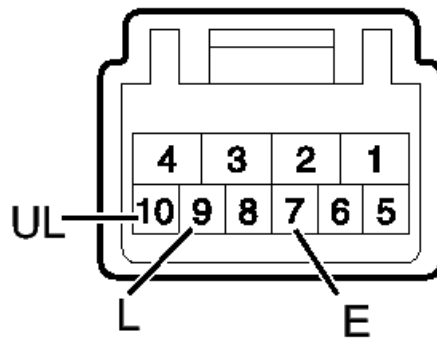
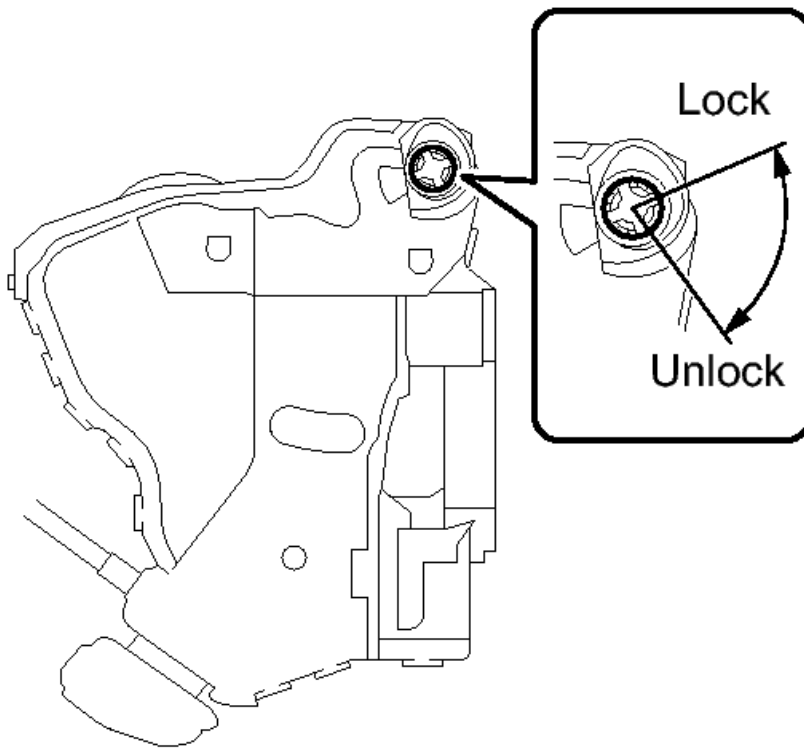
Tester Connection	Switch Condition	Specified Condition
7 (E) - 8 (LSSR)	Locked	10 kohms or higher
7 (E) - 8 (LSSR)	Unlocked	Below 1 ohms

If the result is not as specified, replace the door lock.

c. w/ Door lock and unlock switch:

Check the resistance of the door lock and unlock switch.

*a



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Fig. 25: Measuring Front Door Lock Assembly Resistance
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	Component without harness connected (Front Door Lock LH)
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1. Measure the resistance according to the value(s) in the table below.

Standard Resistance

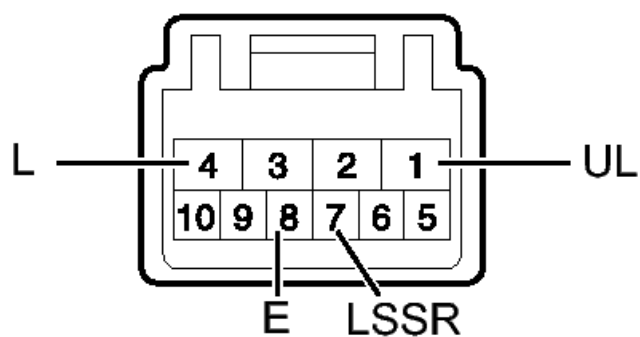
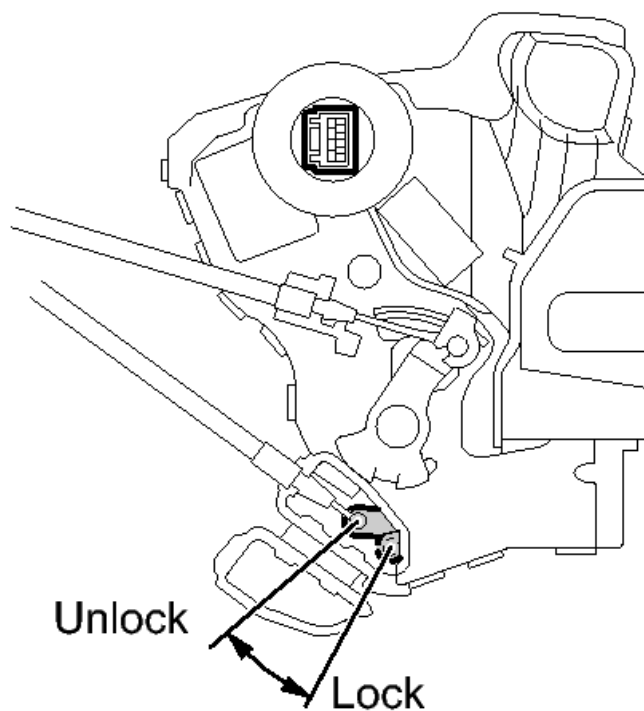
Tester Connection	Switch Condition	Specified Condition
7 (E) - 9 (L)	Locked	Below 1 ohms
7 (E) - 9 (L)	Unlocked	10 kohms or higher
7 (E) - 10 (UL)	Locked	10 kohms or higher
7 (E) - 10 (UL)	Unlocked	Below 1 ohms

If the result is not as specified, replace the door lock.

2. INSPECT FRONT DOOR LOCK ASSEMBLY RH

- a. Check the operation of the door lock motor.

*a



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Fig. 26: Inspecting Front Door Lock Assembly RH Operation
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (Front Door Lock RH)
----	--

1. Apply battery voltage to the motor terminals.

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 4 (L) Battery negative (-) -- > 1 (UL)	Locks
Battery positive (+) -- > 1 (UL) Battery negative (-) -- > 4 (L)	Unlocks

If the result is not as specified, replace the door lock.

- b. Check the resistance of the unlock detection switch.

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

Standard Resistance

Tester Connection	Switch Condition	Specified Condition
7 (LSSR) - 8 (E)	Locked	10 kohms or higher
7 (LSSR) - 8 (E)	Unlocked	Below 1 ohms

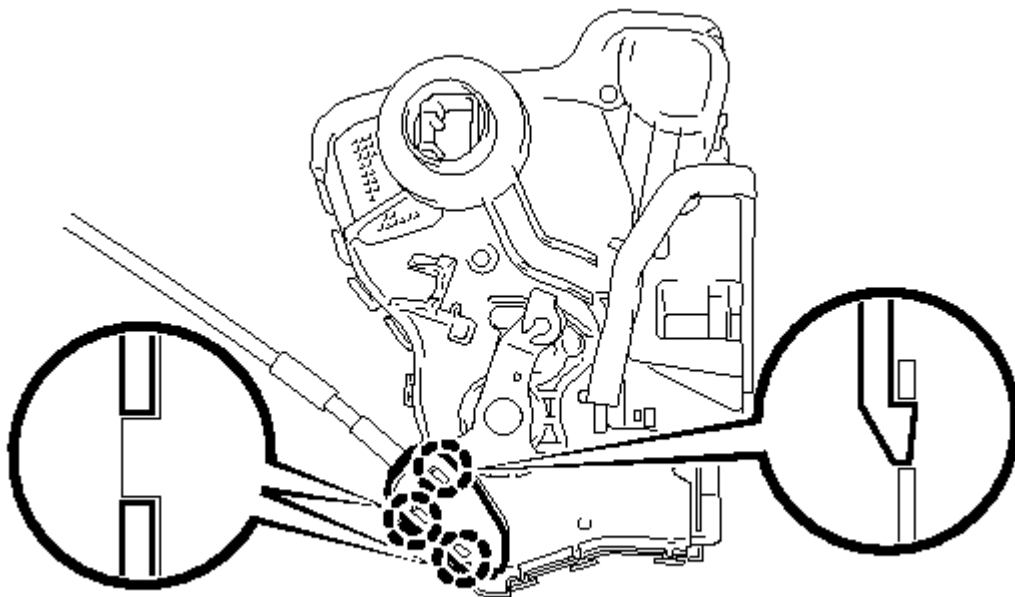
If the result is not as specified, replace the door lock.

INSTALLATION

INSTALLATION

1. INSTALL FRONT DOOR INSIDE LOCKING CABLE

- a. Install the front door inside locking cable.
- b. Engage the 3 claws and close the cover.



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Fig. 27: Identifying Claws

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

2. INSTALL FRONT DOOR LOCK REMOTE CONTROL CABLE

- a. Install the front door lock remote control cable.

3. INSTALL FRONT DOOR LOCK ASSEMBLY

NOTE:

- If reusing a door lock that has been removed, replace the packing in the connecting part with a new packing.
- Make sure that no grease or dirt adheres to the packing surface in the connecting part.

- a. Apply MP grease to the sliding and rotating areas of the front door lock.
- b. Install a new door lock wire harness seal onto the front door lock.
- c. Insert the front door lock open rod into the front door lock, and set it to the front door outside handle frame.
- d. Make sure that the front door lock open rod is securely connected to the front door lock.
- e. Apply adhesive to the threads of the screws.

Adhesive

Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

- f. Using a T30 "TORX" socket wrench, install the front door lock with the 3 screws.

Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

- g. Connect the connector.

- 4. **INSTALL FRONT DOOR OUTSIDE HANDLE COVER (for Driver Side)** . Refer to **REASSEMBLY - Step 12**
- 5. **INSTALL FRONT DOOR REAR LOWER FRAME SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 15**
- 6. **INSTALL FRONT DOOR GLASS SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 16**
- 7. **INSTALL FRONT DOOR FRONT LOWER FRAME SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 17**
- 8. **INSTALL FRONT DOOR GLASS RUN** . Refer to **REASSEMBLY - Step 18**
- 9. **INSTALL FRONT DOOR WEATHERSTRIP** . Refer to **REASSEMBLY - Step 19**
- 10. **INSTALL FRONT DOOR CHECK ASSEMBLY** . Refer to **REASSEMBLY - Step 20**
- 11. **INSTALL FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**

HINT:

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

- 12. **INSTALL OUTER REAR VIEW MIRROR ASSEMBLY**

HINT:

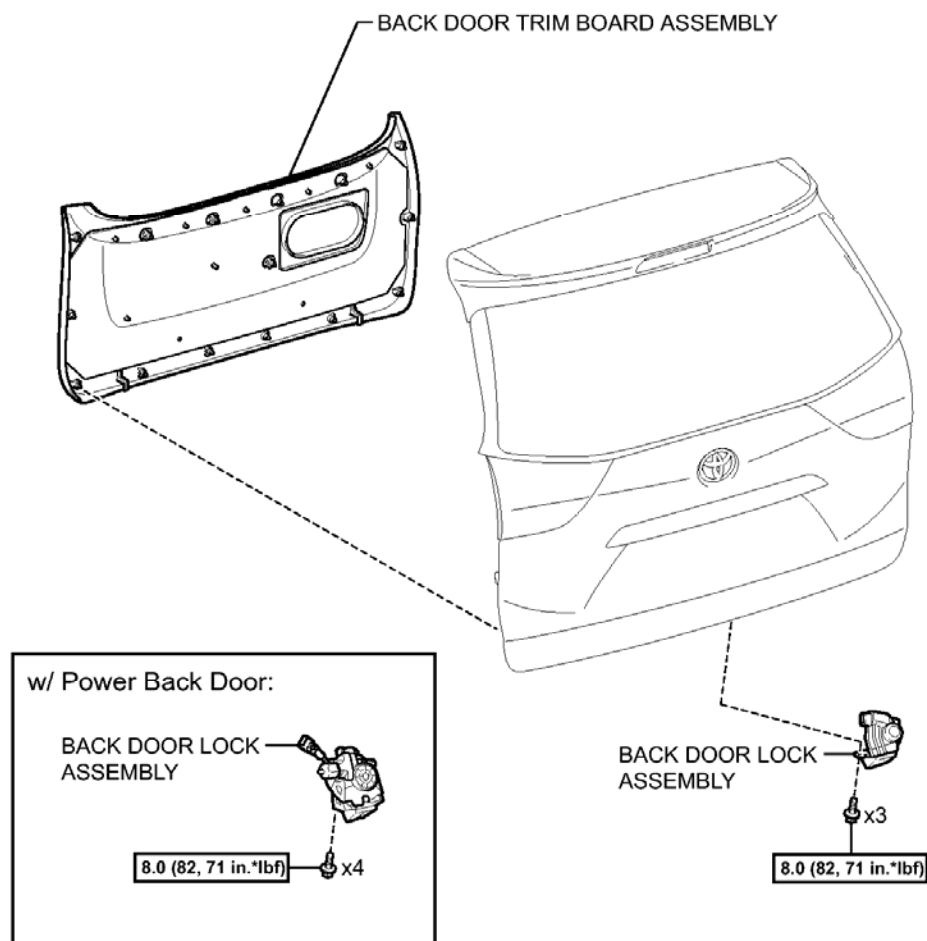
Use the same procedure as for the LH side. Refer to **INSTALLATION - Step 3** .

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

BACK DOOR LOCK

COMPONENTS

ILLUSTRATION



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

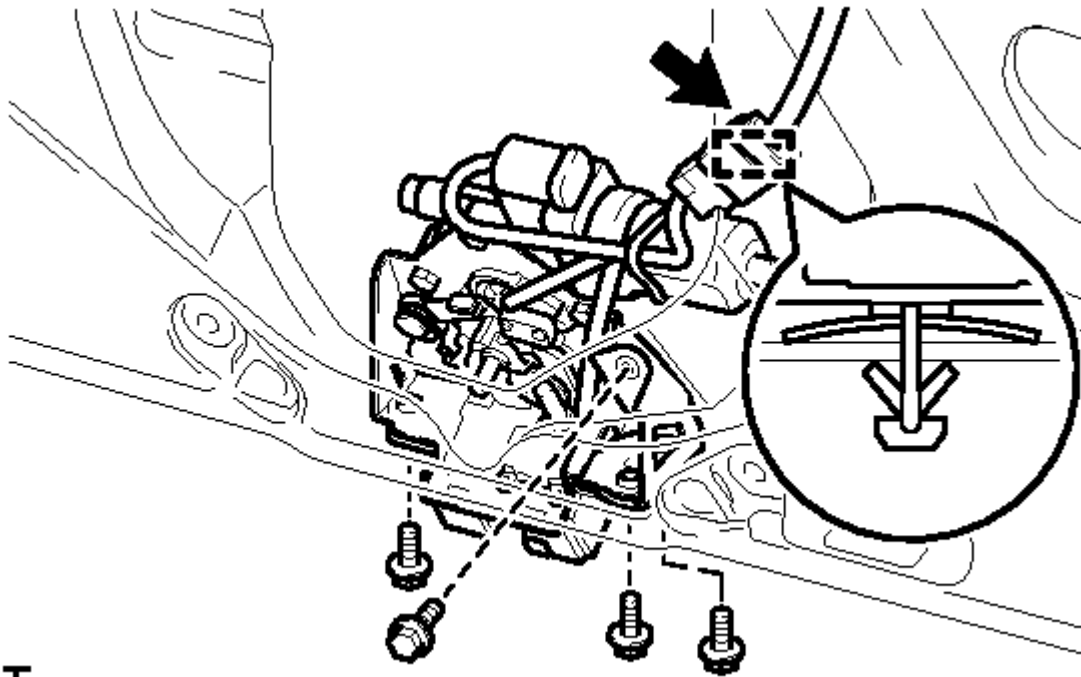
Fig. 28: Back Door Lock Replacement Components With Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. **REMOVE BACK DOOR TRIM BOARD ASSEMBLY** . Refer to **DISASSEMBLY - Step 2**

2. REMOVE BACK DOOR LOCK ASSEMBLY (w/ Power Back Door)

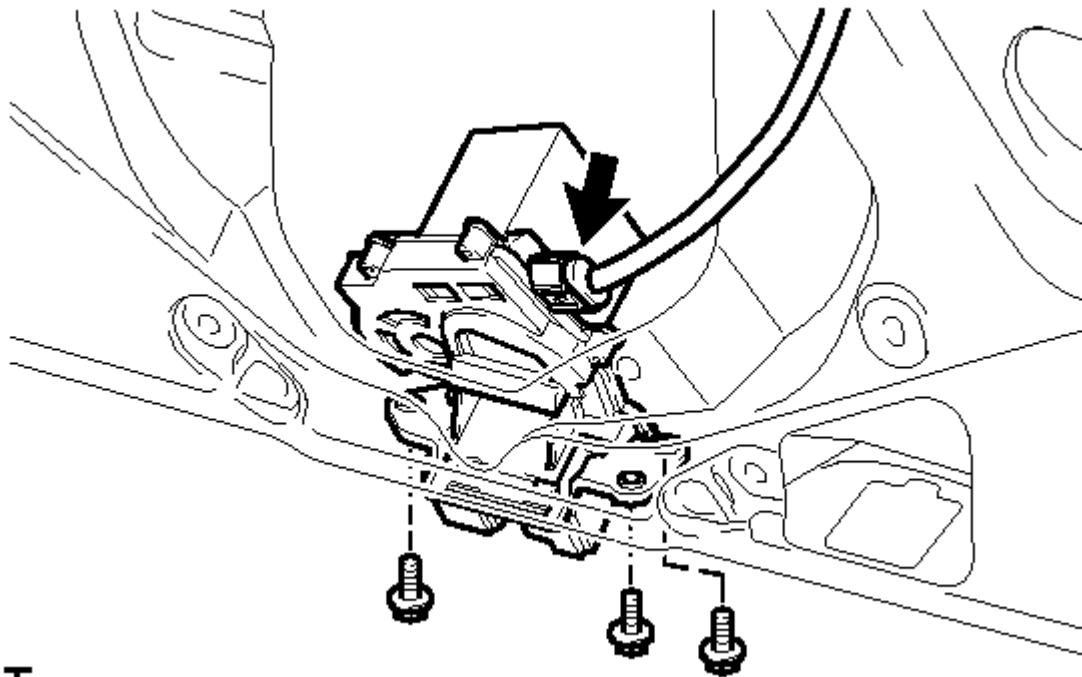


T

Fig. 29: Identifying Back Door Lock Assembly, Connector & Fasteners (w/ Power Back Door)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disconnect the connector.
- b. Disengage the clamp.
- c. Remove the 4 bolts and the back door lock.

3. REMOVE BACK DOOR LOCK ASSEMBLY (w/o Power Back Door)



T

Fig. 30: Removing Back Door Lock Assembly, Connector & Fasteners (w/o Power Back Door)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disconnect the connector.
- b. Remove the 3 bolts and the back door lock.

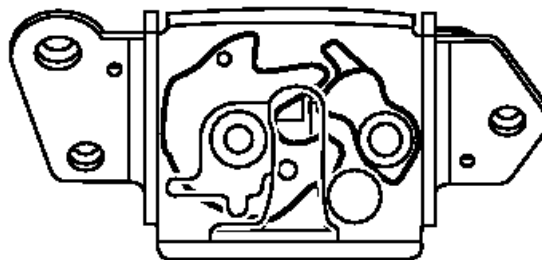
INSPECTION

INSPECTION

1. **INSPECT BACK DOOR LOCK ASSEMBLY (w/o Power Back Door)**
 - a. Check the operation of the door lock motor.

*a

*b



*c

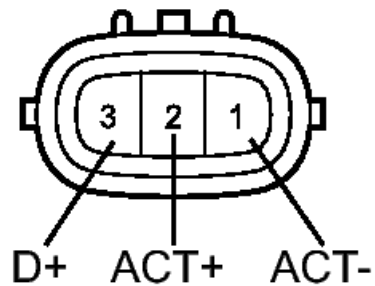
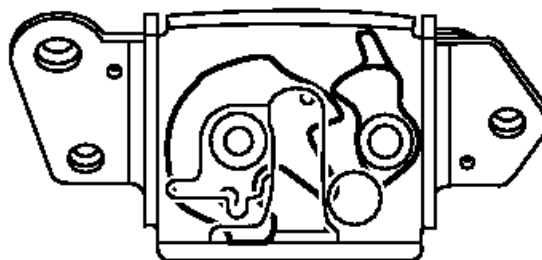


Fig. 31: Inspecting Back Door Lock Assembly Operation (w/o Power Back Door)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Move the door lock to the lock position.
2. Apply the battery voltage to the door lock motor and check the operation of the door lock

motor.

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > Terminal 2 (ACT+) Battery negative (-) -- > Terminal 1 (ACT-)	Unlocks

If the result is not as specified, replace the back door lock.

b. Check the operation of the door courtesy switch.

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

Standard Resistance

Tester Connection	Switch Condition	Specified Condition
1 (ACT-) - 3 (D+)	Locked	10 kohms or higher
1 (ACT-) - 3 (D+)	Unlocked	Below 1 ohms

TEXT IN ILLUSTRATION

*a	Component without harness connected (Back Door Lock Assembly)
*b	Lock
*c	Unlock

If the result is not as specified, replace the back door lock.

2. INSPECT BACK DOOR LOCK ASSEMBLY (w/ Power Back Door)

a. Check the operation of the door lock motor.

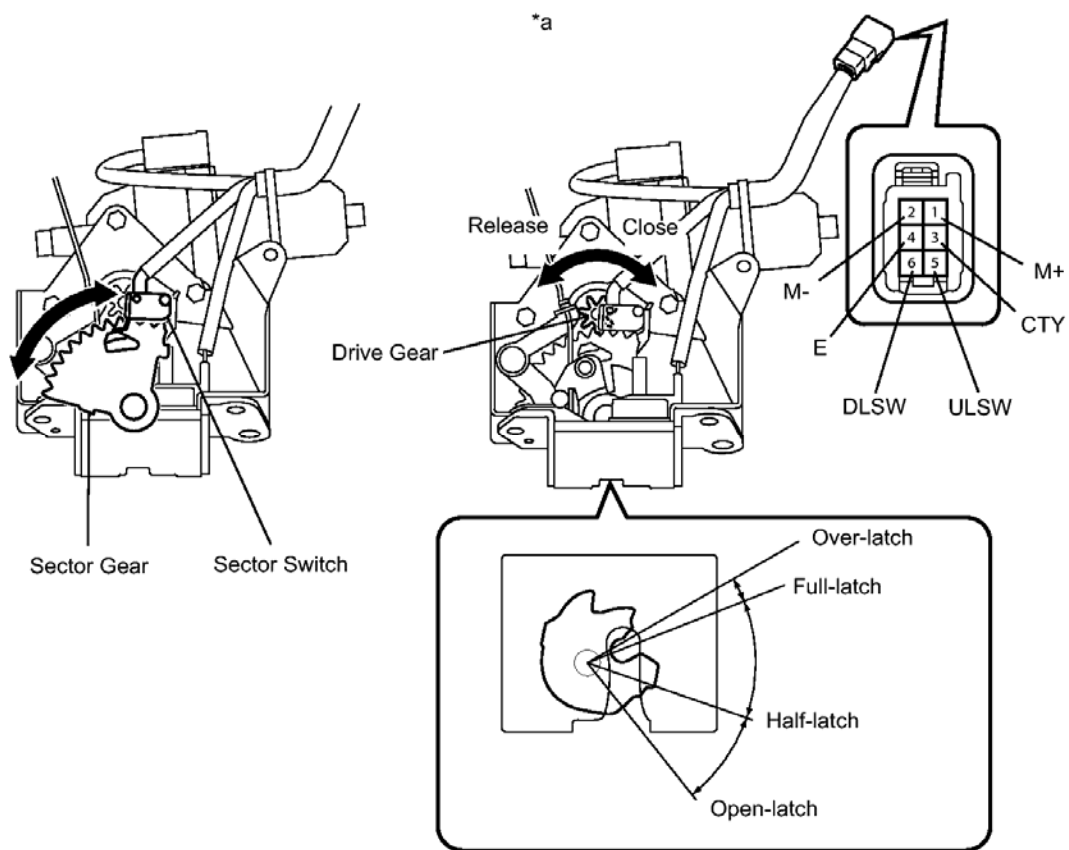


Fig. 32: Inspecting Back Door Lock Assembly Operation (w/ Power Back Door)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	Component without harness connected (Back Door Lock Assembly)	--
----	---	----

1. Apply the battery voltage to the door lock motor and check the operation of the door lock motor.

OK

Measurement Condition	Specified Condition
Battery positive (+) --	

> Terminal 1 (M+) Battery negative (-) -- > Terminal 2 (M-)	Latch turns to full-latch position
Battery positive (+) -- > Terminal 2 (M-) Battery negative (-) -- > Terminal 1 (M+)	Latch turns to open-latch position

If the result is not as specified, replace the back door lock.

b. Check the operation of the switch.

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

Standard Resistance

Latch Switch

Sector Switch

Back Door Courtesy Light Switch

Tester Connection	Door Lock Latch Position	Specified Condition
5 (ULSW) - 4 (E)	Open- latch	Below 1 ohms
5 (ULSW) - 4 (E)	Half- latch	10 kohms or higher
5 (ULSW) - 4 (E)	Full- latch	10 kohms or higher
5 (ULSW) - 4 (E)	Over- latch	Below 1 ohms

Tester Connection	Switch Condition	Specified Condition
6 (DLSW) -	Sector gear in neutral	Below 1

4 (E)	position (Sector switch on)	ohms
6 (DLSW) - 4 (E)	Sector gear not in neutral position (Sector switch off)	10 kohms or higher

Tester Connection	Door Lock Latch Position	Specified Condition
3 (CTY) - 4 (E)	Open- latch	Below 1 ohms
3 (CTY) - 4 (E)	Half- latch	Below 1 ohms
3 (CTY) - 4 (E)	Full- latch	10 kohms or higher
3 (CTY) - 4 (E)	Over- latch	10 kohms or higher

If the result is not as specified, replace the back door lock.

INSTALLATION

INSTALLATION

1. INSTALL BACK DOOR LOCK ASSEMBLY (w/ Power Back Door)

- Install the back door with the 4 bolts.

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

- Engage the clamp.
- Connect the connector.

2. INSTALL BACK DOOR LOCK ASSEMBLY (w/o Power Back Door)

- Install the back door with the 3 bolts.

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

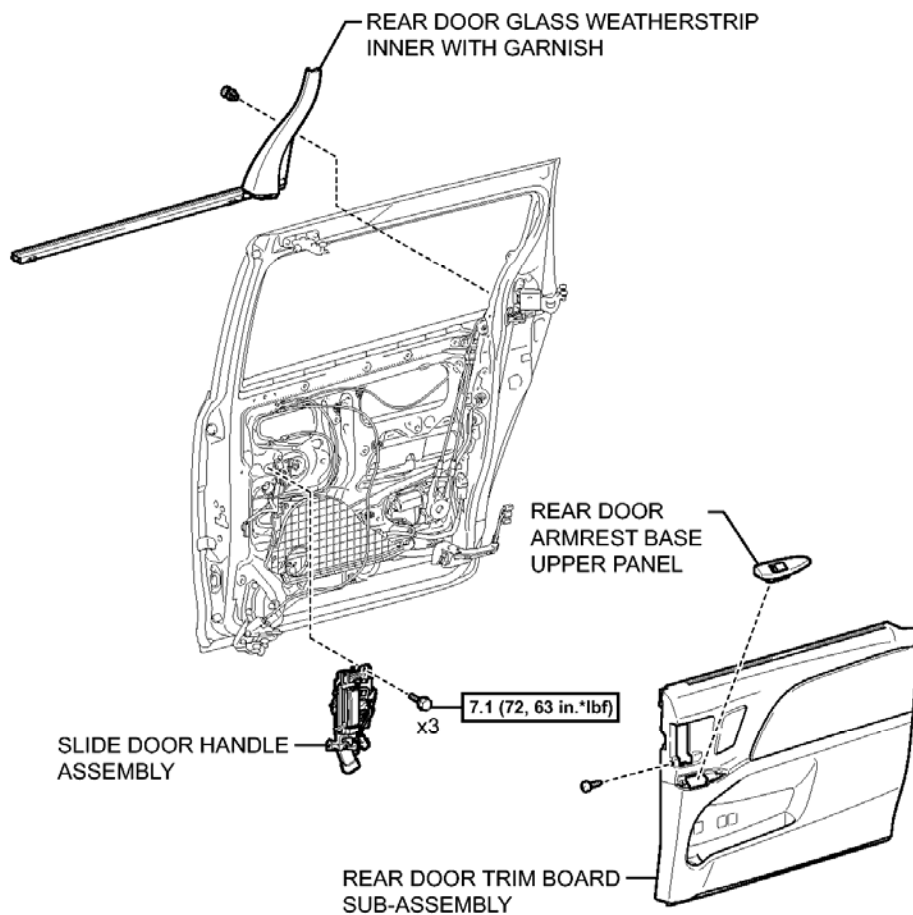
- Connect the connector.

3. INSTALL BACK DOOR TRIM BOARD ASSEMBLY . Refer to REASSEMBLY - Step 27

SLIDE DOOR LOCK

COMPONENTS

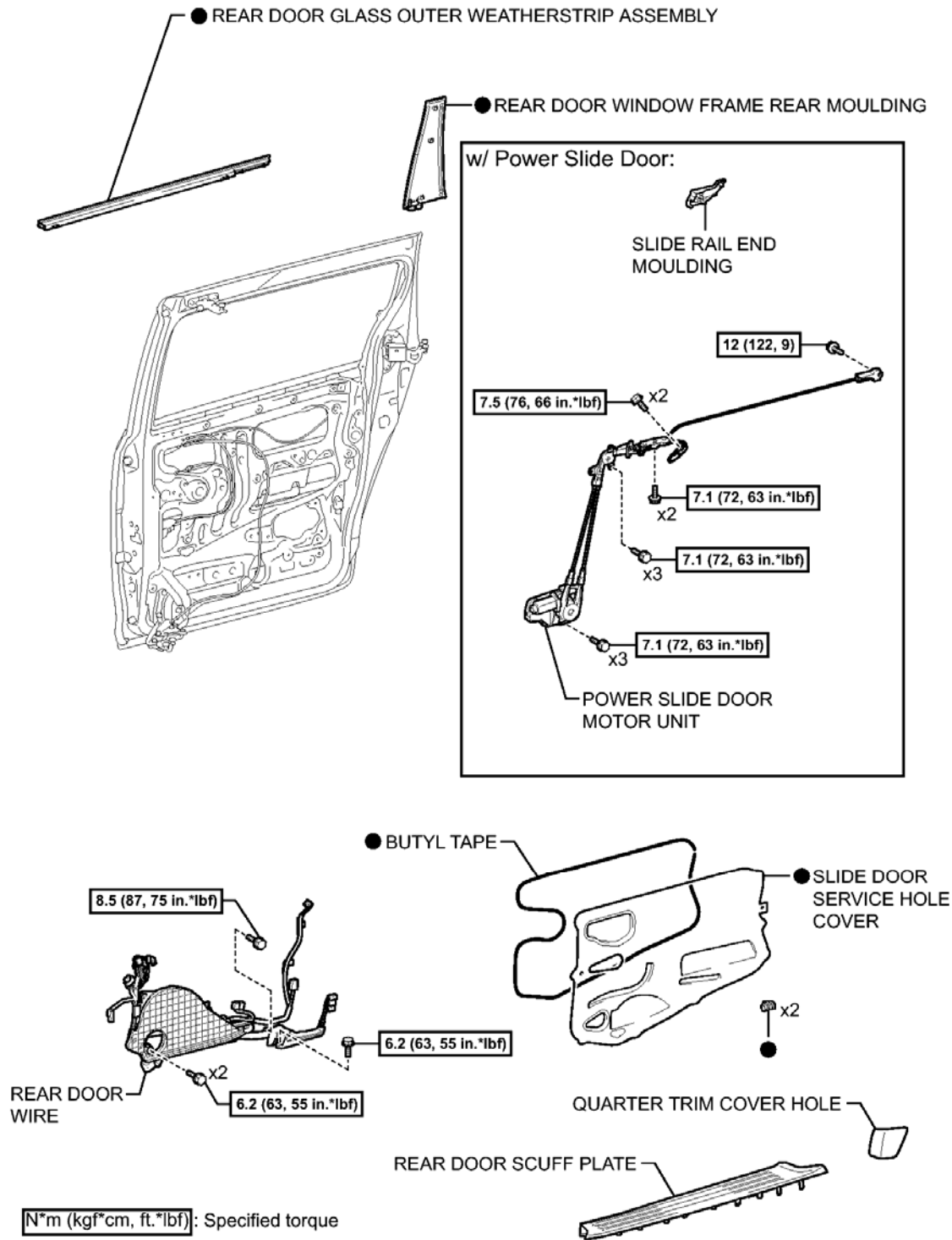
ILLUSTRATION



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

Fig. 33: Slide Door Lock Replacement Components With Torque Specifications (1 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

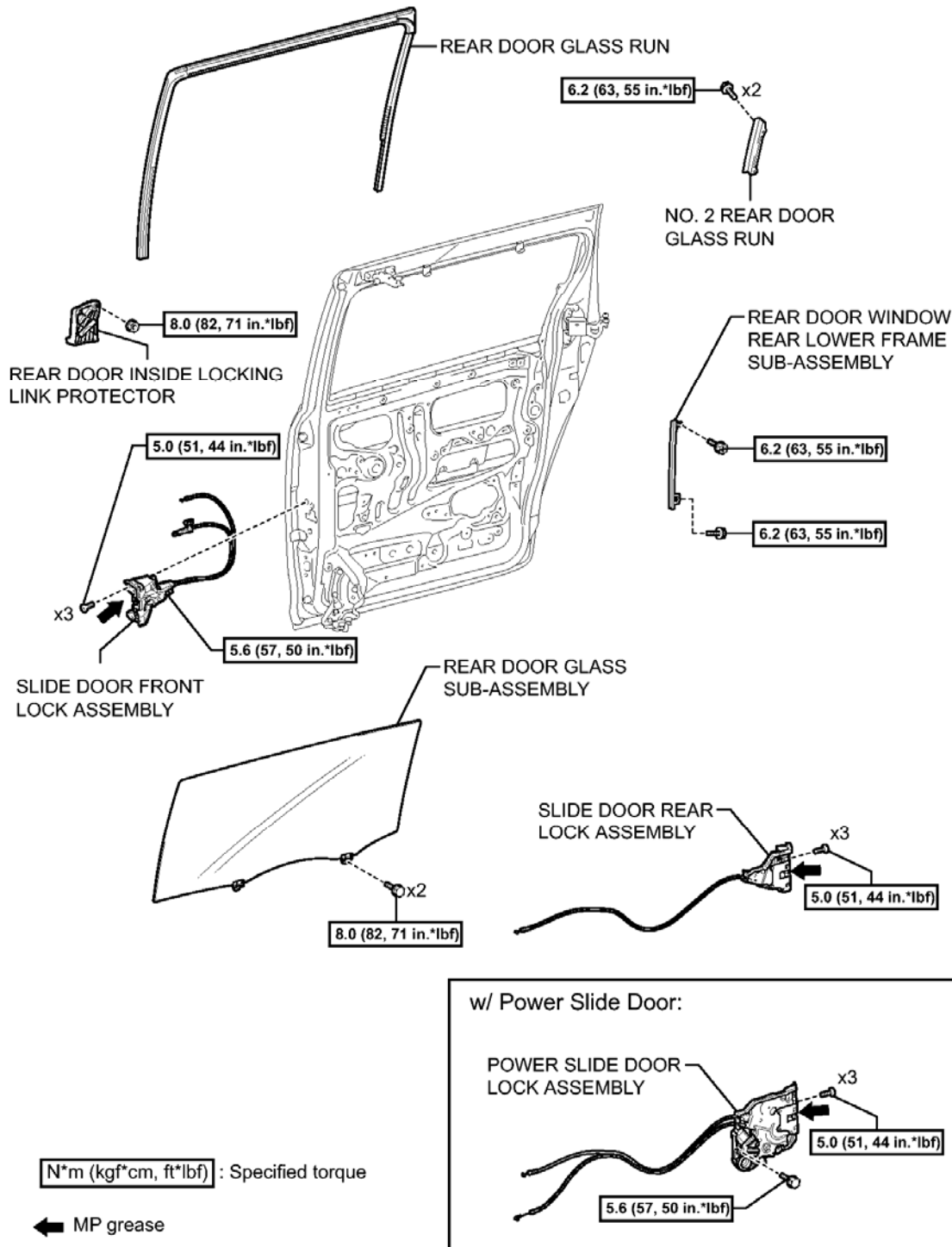
ILLUSTRATION



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Fig. 34: Slide Door Lock Replacement Components With Torque Specifications (2 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



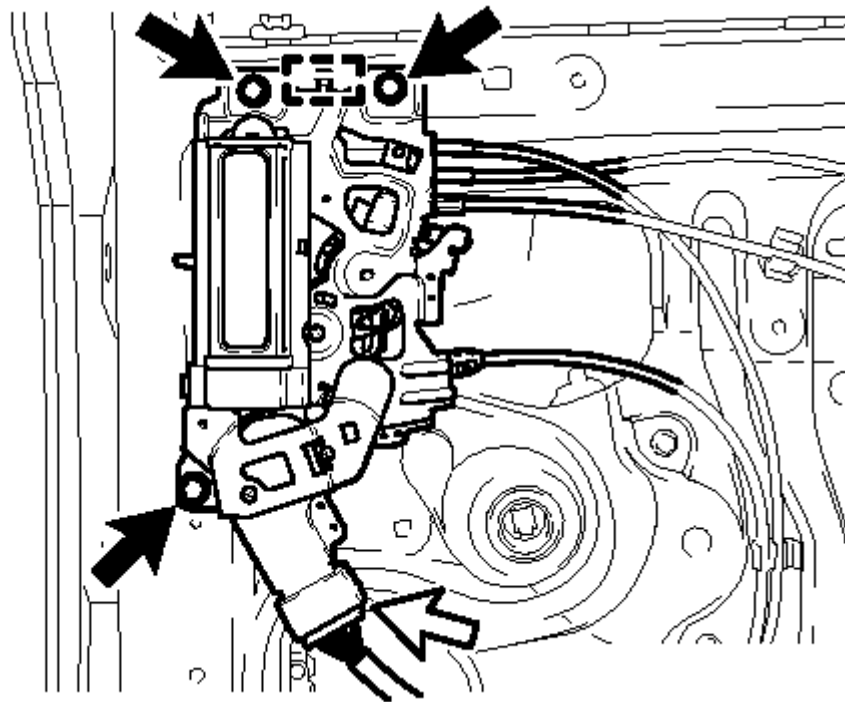
P

Fig. 35: Slide Door Lock Replacement Components With Torque Specifications (3 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. **REMOVE REAR DOOR ARMREST BASE UPPER PANEL** . Refer to **DISASSEMBLY - Step 2**
2. **REMOVE REAR DOOR TRIM BOARD SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 3**
3. **REMOVE REAR DOOR GLASS WEATHERSTRIP INNER WITH GARNISH** . Refer to **DISASSEMBLY - Step 5**
4. **REMOVE SLIDE DOOR HANDLE ASSEMBLY (w/o Power Slide Door)**
 - a. Disconnect the connector.

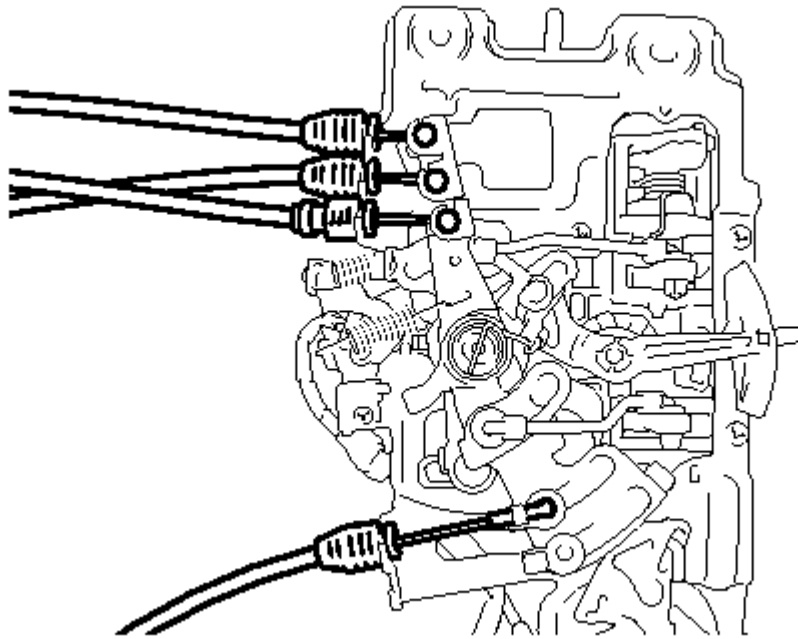


P

Fig. 36: Identifying Slide Door Handle Assembly, Connector & Fasteners (w/o Power Slide Door)

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

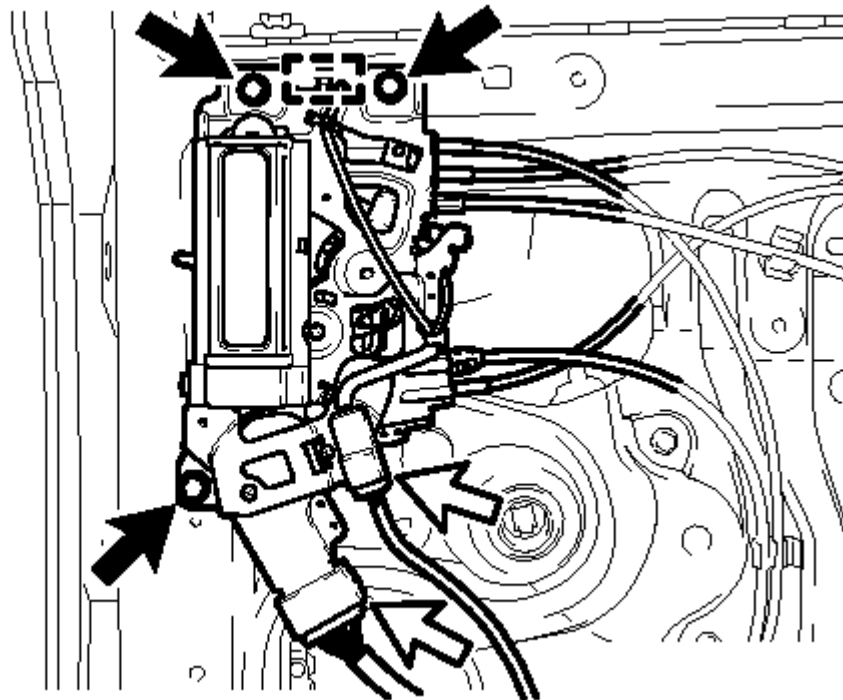
- b. Remove the 3 bolts.
- c. Disengage the guide.
- d. Disconnect the 4 cables and remove the slide door handle.



P

Fig. 37: Identifying Slide Door Handle Assembly Cables (w/o Power Slide Door)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. REMOVE SLIDE DOOR HANDLE ASSEMBLY (w/ Power Slide Door)
 - a. Disconnect the 2 connectors.



P

Fig. 38: Identifying Slide Door Handle Assembly, Connector & Fasteners (w/ Power Slide

Door)

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

- b. Remove the 3 bolts.
- c. Disengage the guide.
- d. Disconnect the 5 cables and remove the slide door lock handle.

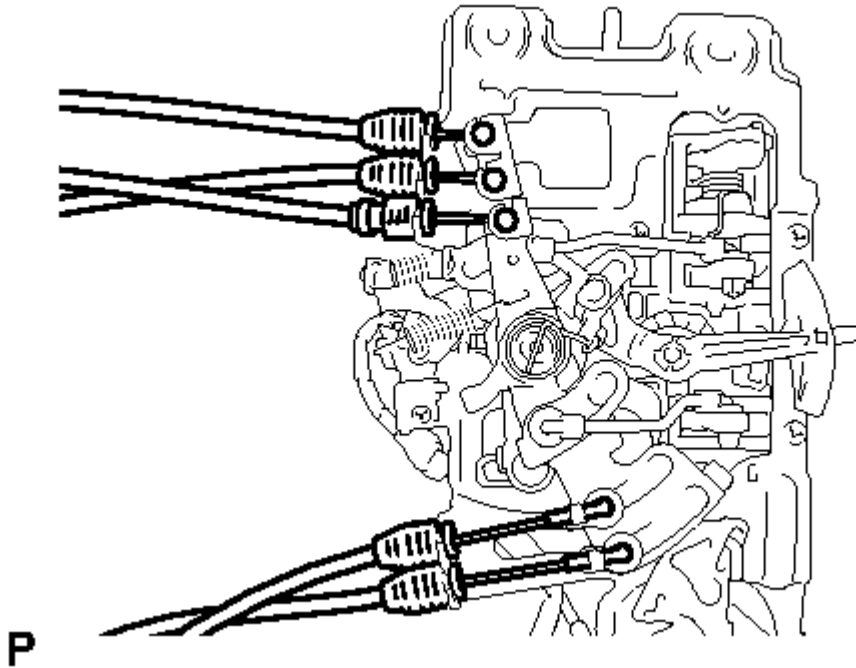


Fig. 39: Identifying Slide Door Handle Assembly Cables (w/ Power Slide Door)

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

- 6. **REMOVE REAR DOOR SCUFF PLATE** . Refer to **REMOVAL - Step 13**
- 7. **REMOVE QUARTER TRIM COVER HOLE** . Refer to **DISASSEMBLY - Step 12**
- 8. **REMOVE REAR DOOR WIRE (w/o Power Slide Door)** . Refer to **DISASSEMBLY - Step 13**
- 9. **REMOVE REAR DOOR WIRE (w/ Power Slide Door)** . Refer to **DISASSEMBLY - Step 14**
- 10. **REMOVE QUARTER WINDOW GLASS (w/ Power Slide Door)**

Refer to **REMOVAL**

- 11. **REMOVE SLIDE RAIL END MOULDING (w/ Power Slide Door)** . Refer to **DISASSEMBLY - Step 16**
- 12. **REMOVE POWER SLIDE DOOR MOTOR UNIT (w/ Power Slide Door)** . Refer to **REMOVAL - Step 6**
- 13. **REMOVE SLIDE DOOR SERVICE HOLE COVER** . Refer to **DISASSEMBLY - Step 19**
- 14. **REMOVE REAR DOOR WINDOW FRAME REAR MOULDING**

HINT:

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

15. REMOVE REAR DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY

HINT:

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

16. REMOVE REAR DOOR GLASS RUN . Refer to **DISASSEMBLY - Step 22**

17. REMOVE NO. 2 REAR DOOR GLASS RUN . Refer to **DISASSEMBLY - Step 24**

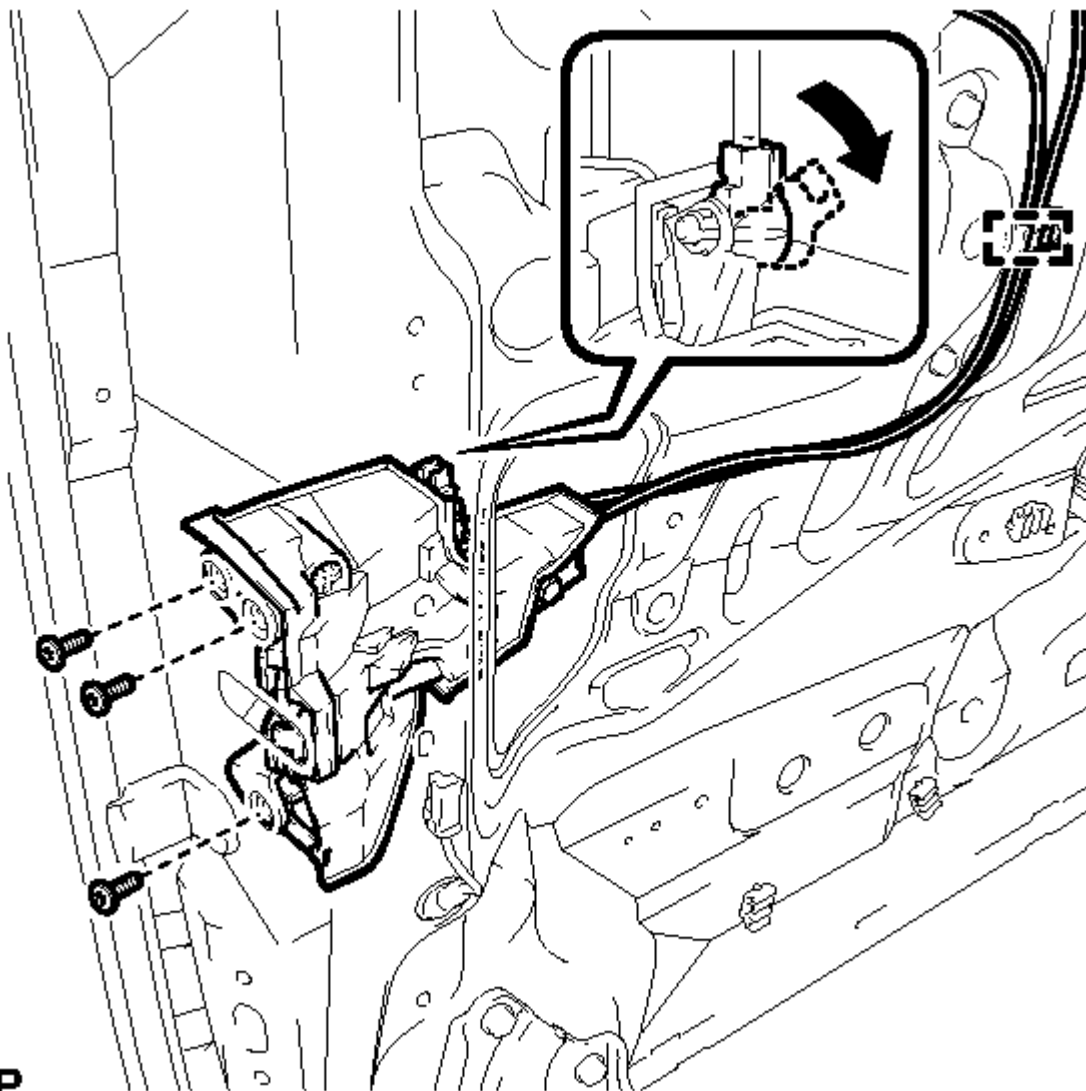
18. REMOVE REAR DOOR GLASS SUB-ASSEMBLY . Refer to **DISASSEMBLY - Step 25**

19. REMOVE REAR DOOR WINDOW REAR LOWER FRAME SUB-ASSEMBLY . Refer to **DISASSEMBLY - Step 27**

20. REMOVE REAR DOOR INSIDE LOCKING LINK PROTECTOR . Refer to **DISASSEMBLY - Step 29**

21. REMOVE SLIDE DOOR FRONT LOCK ASSEMBLY

- a. Disengage the clamp.



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Fig. 40: Identifying Slide Door Front Lock Assembly & Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disconnect the rod.
 - c. Using a T30 "TORX" socket wrench, remove the 3 screws and slide door front lock.
- 22. REMOVE SLIDE DOOR REAR LOCK ASSEMBLY (w/o Power Slide Door)**
- a. Disengage the 2 clamps.

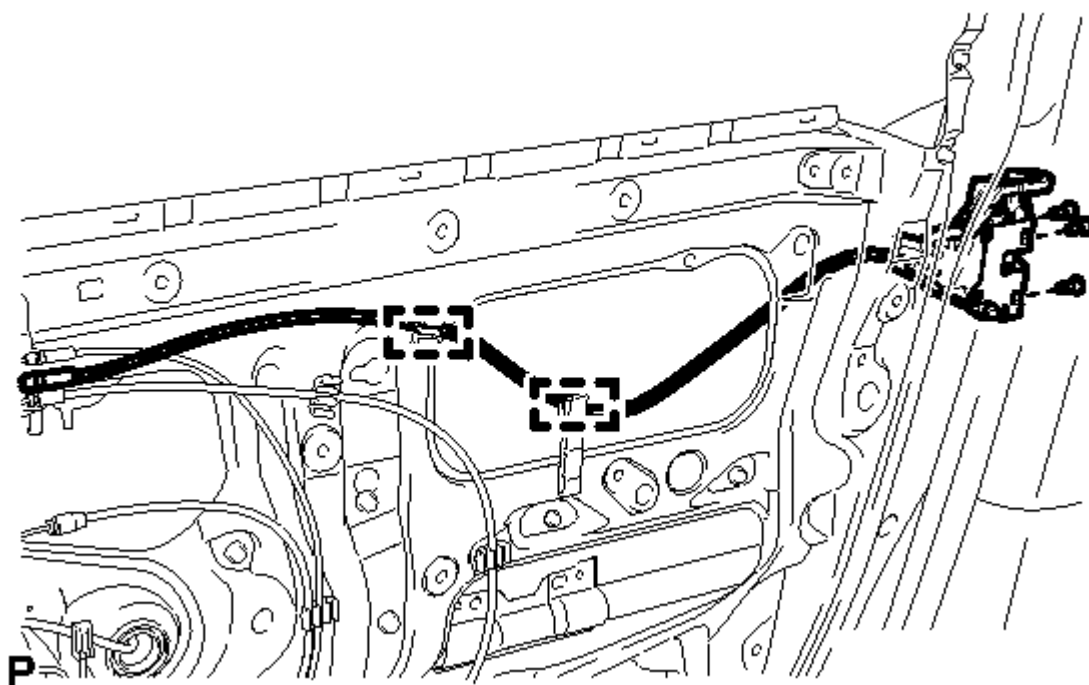


Fig. 41: Identifying Slide Door Rear Lock Assembly & Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Using a T30 "TORX" socket wrench, remove the 3 screws and slide door rear lock.
- 23. **REMOVE POWER SLIDE DOOR LOCK ASSEMBLY (w/ Power Slide Door)**
 - a. Disengage the 2 clamps.

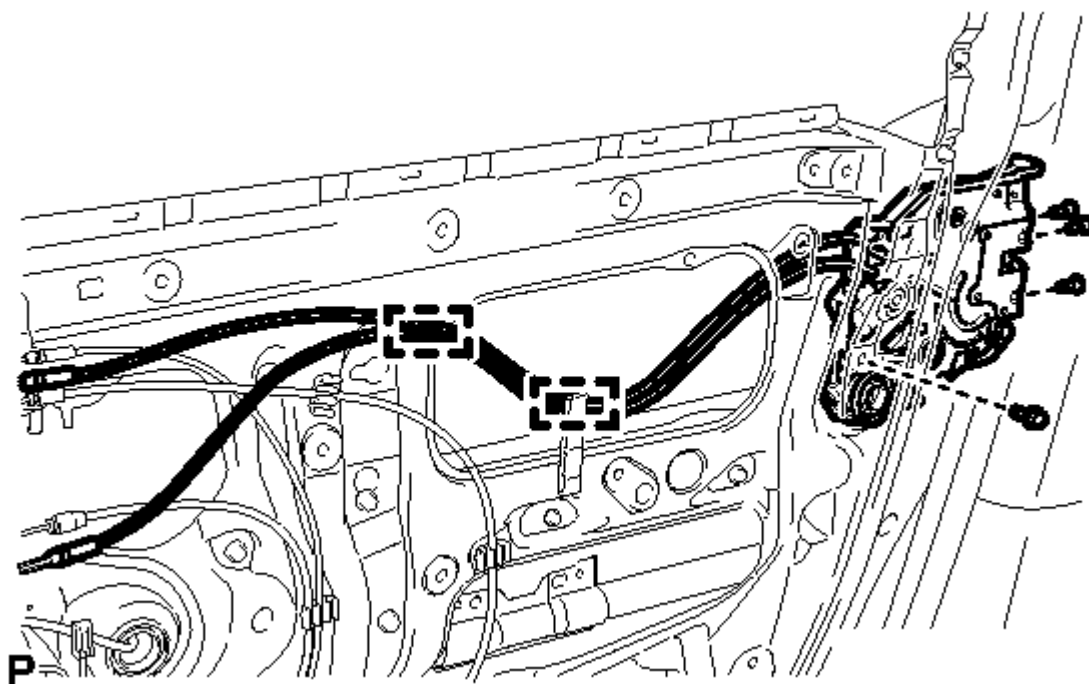


Fig. 42: Identifying Power Slide Door Lock Assembly & Fasteners (w/ Power Slide Door)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the bolt.
- c. Using a T30 "TORX" socket wrench, remove the 3 screws and power slide door lock.

INSPECTION

INSPECTION

1. INSPECT SLIDE DOOR HANDLE ASSEMBLY LH (w/o Power Slide Door)

- a. Apply battery voltage to the motor terminals and check the operation of the slide door handle.

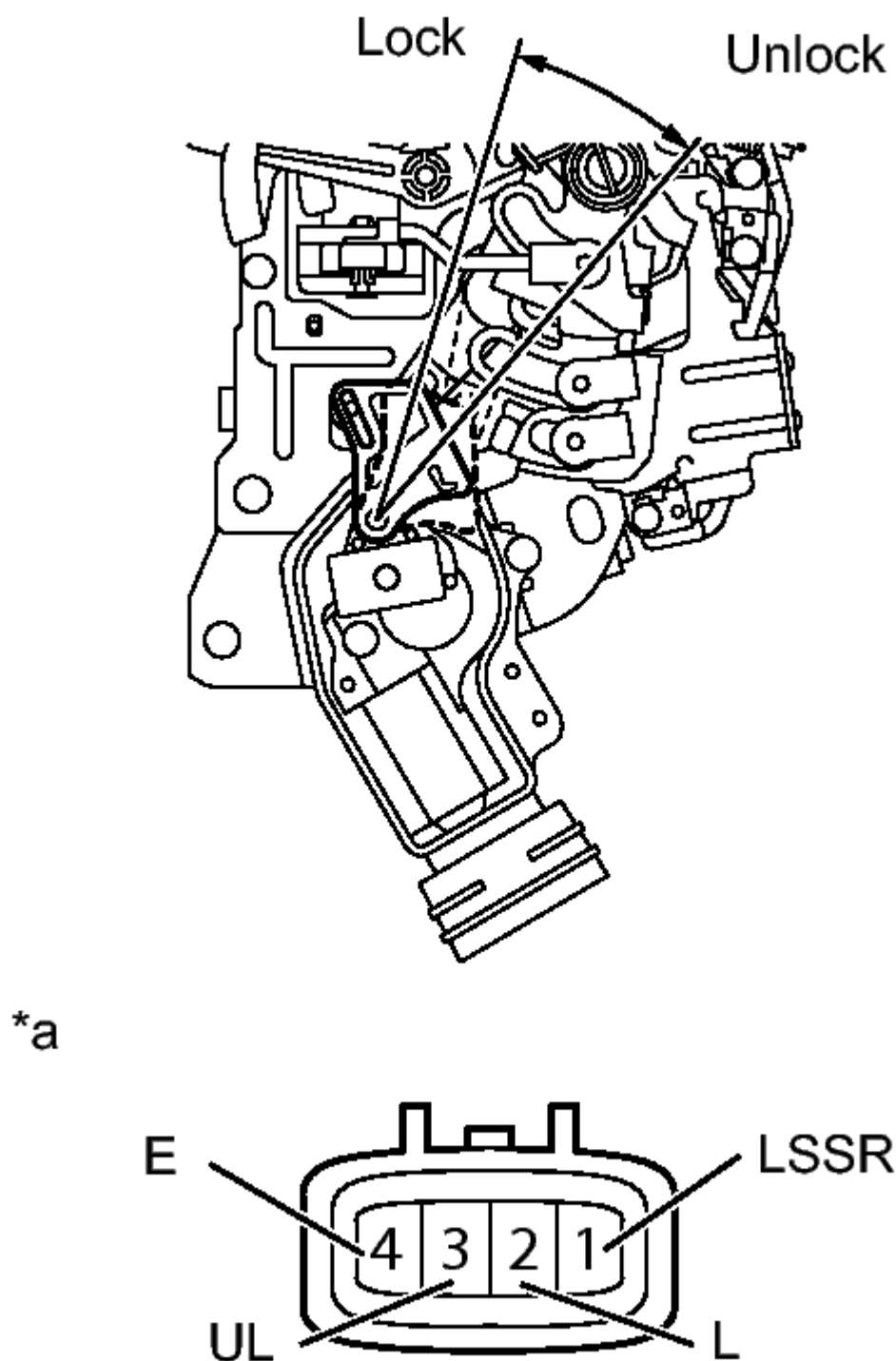


Fig. 43: Inspecting Slide Door Handle Assembly LH Operation (w/o Power Slide Door)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

	Component
--	-----------

*a	without harness connected (slide door handle LH)
----	--

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 2 (L) Battery negative (-) -- > 3 (UL)	Locks
Battery positive (+) -- > 3 (UL) Battery negative (-) -- > 2 (L)	Unlocks

If the result is not as specified, replace the slide door handle.

- b. Measure the resistance according to the values in the table below.

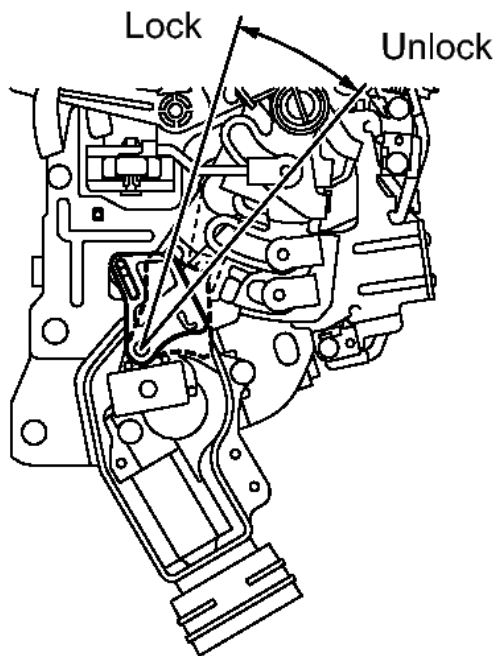
Standard Resistance

Tester Connection	Condition	Specified Condition
1 (LSSR) - 4 (E)	Locked	10 kohms or higher
1 (LSSR) - 4 (E)	Unlocked	Below 1 ohms

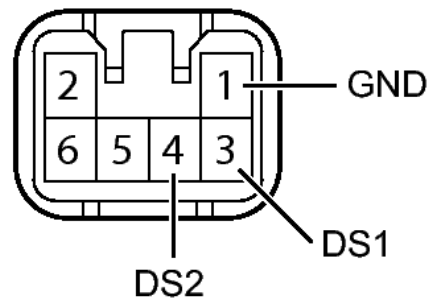
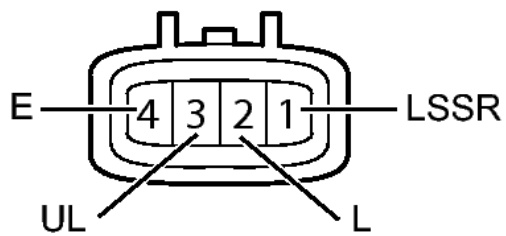
If the result is not as specified, replace the slide door handle.

2. INSPECT SLIDE DOOR HANDLE ASSEMBLY LH (w/ Power Slide Door)

- a. Apply battery voltage to the motor terminals and check the operation of the slide door handle.



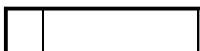
*a



Y

Fig. 44: Power Slide Door Motor Connector End View (LH)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (slide door handle LH)
----	---

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 2 (L) Battery negative (-) -- > 3 (UL)	Locks
Battery positive (+) -- > 3 (UL) Battery negative (-) -- > 2 (L)	Unlocks

If the result is not as specified, replace the slide door handle.

- b. Measure the resistance according to the values in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
1 (LSSR) - 4 (E)	Locked	10 kohms or higher
1 (LSSR) - 4 (E)	Unlocked	Below 1 ohms

If the result is not as specified, replace the slide door handle.

- c. Measure the resistance according to the values in the table below.

Standard Resistance

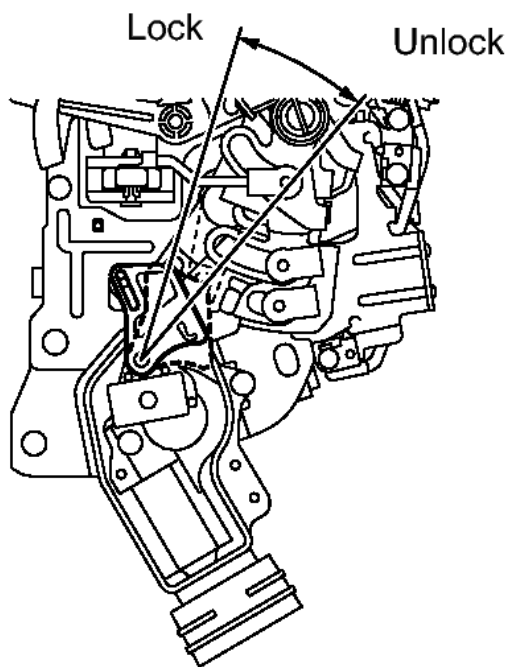
Tester Connection	Condition	Specified Condition
1 (GND) -		

4 (DS2)	Inner Handle Pulled	Below 1 ohms
1 (GND) - 3 (DS1)		
1 (GND) - 4 (DS2)	Inner Handle not Pulled	10 kohms or higher
1 (GND) - 3 (DS1)		

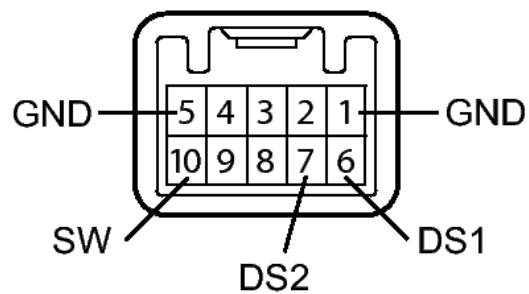
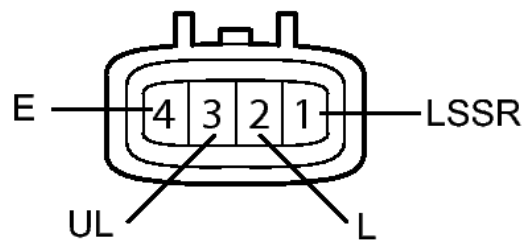
If the result is not as specified, replace the slide door handle.

3. **INSPECT SLIDE DOOR HANDLE ASSEMBLY LH (w/ Smart Key System)**

- a. Apply battery voltage to the motor terminals and check the operation of the slide door handle.



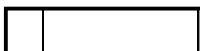
*a



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Fig. 45: Power Slide Door Motor Connector End View (LH) (w/ Smart Key System)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (slide door handle LH)
----	--

OK

Measurement Condition	Specified Condition
Battery positive (+) --> 2 (L) Battery negative (-) --> 3 (UL)	Locks
Battery positive (+) --> 3 (UL) Battery negative (-) --> 2 (L)	Unlocks

If the result is not as specified, replace the slide door handle.

- b. Measure the resistance according to the values in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
1 (LSSR) - 4 (E)	Locked	10 kohms or higher
1 (LSSR) - 4 (E)	Unlocked	Below 1 ohms

If the result is not as specified, replace the slide door handle.

- c. Measure the resistance according to the values in the table below.

Standard Resistance

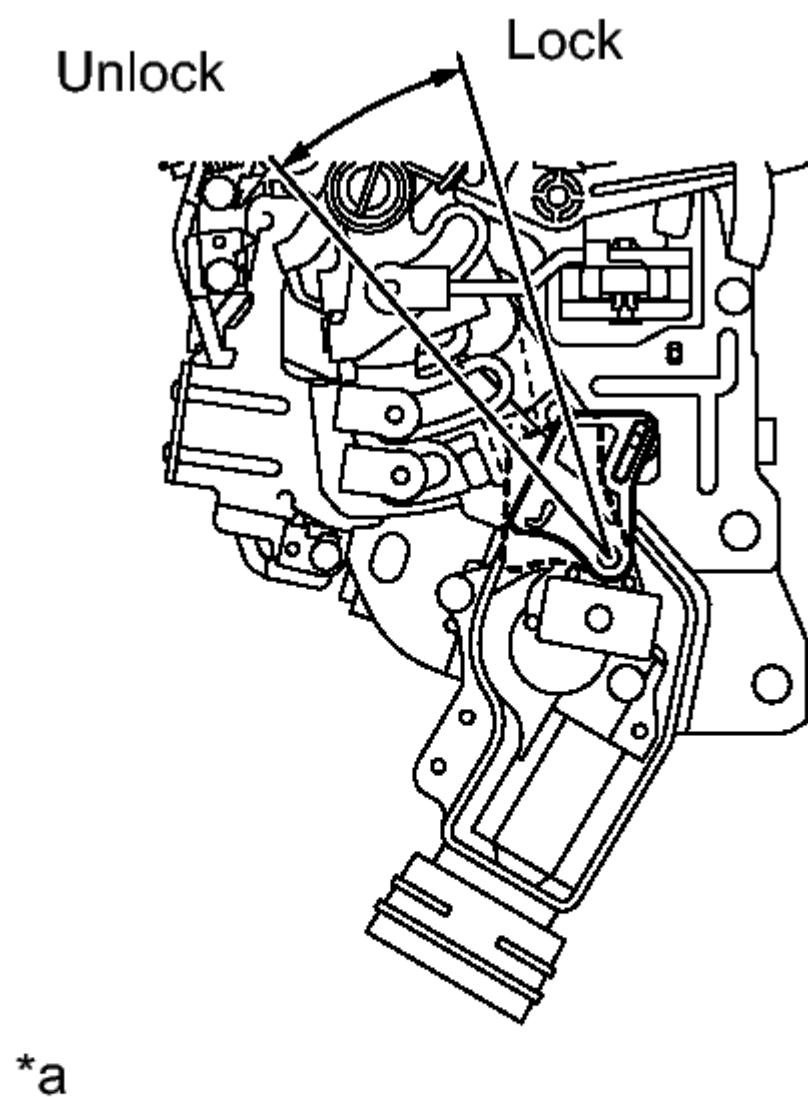
Tester Connection	Condition	Specified Condition
1 (GND) -		

6 (DS1)	Inner Handle Pulled	Below 1 ohms
1 (GND) - 7 (DS2)		
5 (GND) - 10 (SW)		
1 (GND) - 6 (DS1)	Inner Handle not Pulled	10 kohms or higher
1 (GND) - 7 (DS2)		
5 (GND) - 10 (SW)		

If the result is not as specified, replace the slide door handle.

4. INSPECT SLIDE DOOR HANDLE ASSEMBLY RH (w/o Power Slide Door)

- a. Apply battery voltage to the motor terminals and check the operation of the slide door handle.



*a

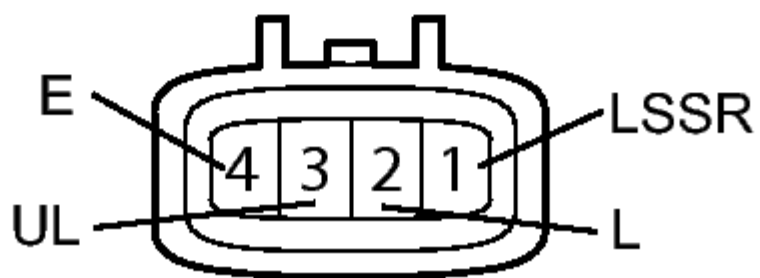


Fig. 46: Power Slide Door Motor Connector End View (RH) (w/o Power Slide Door)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

	Component
--	-----------

*a	without harness connected (slide door handle RH)
----	--

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 2 (L) Battery negative (-) -- > 3 (UL)	Locks
Battery positive (+) -- > 3 (UL) Battery negative (-) -- > 2 (L)	Unlocks

If the result is not as specified, replace the slide door handle.

- b. Measure the resistance according to the values in the table below.

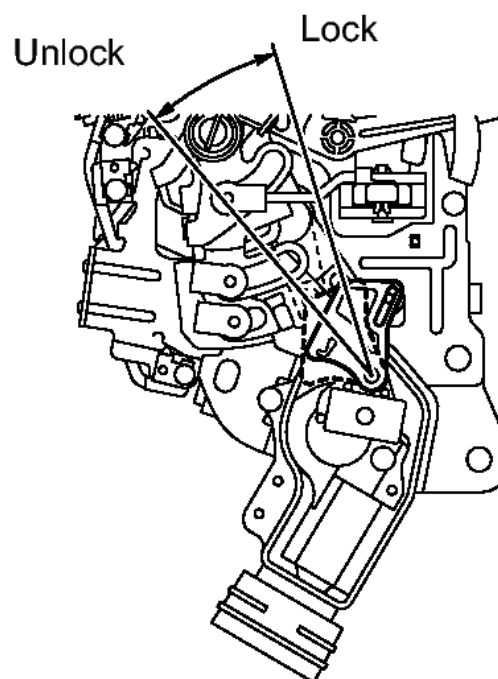
Standard Resistance

Tester Connection	Condition	Specified Condition
1 (LSSR) - 4 (E)	Locked	10 kohms or higher
1 (LSSR) - 4 (E)	Unlocked	Below 1 ohms

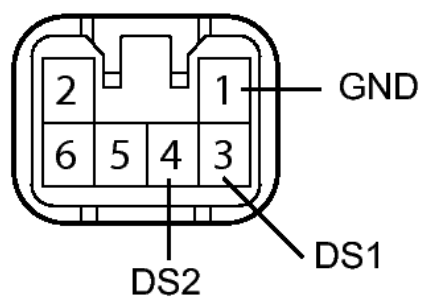
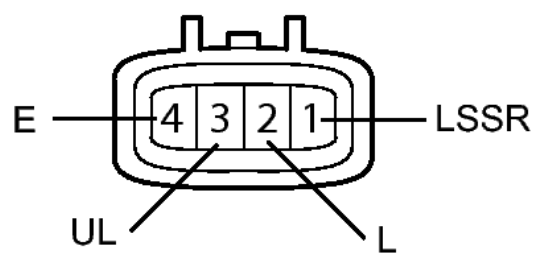
If the result is not as specified, replace the slide door handle.

5. INSPECT SLIDE DOOR HANDLE ASSEMBLY RH (w/ Power Slide Door)

- a. Apply battery voltage to the motor terminals and check the operation of the door lock motor.



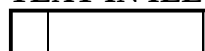
*a



Y

Fig. 47: Power Slide Door Motor Connector End View (RH) (w/ Power Slide Door)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (slide door handle RH)
----	---

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 2 (L) Battery negative (-) -- > 3 (UL)	Locks
Battery positive (+) -- > 3 (UL) Battery negative (-) -- > 2 (L)	Unlocks

If the result is not as specified, replace the slide door handle.

- b. Measure the resistance according to the values in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
1 (LSSR) - 4 (E)	Locked	10 kohms or higher
1 (LSSR) - 4 (E)	Unlocked	Below 1 ohms

If the result is not as specified, replace the slide door handle.

- c. Measure the resistance according to the values in the table below.

Standard Resistance

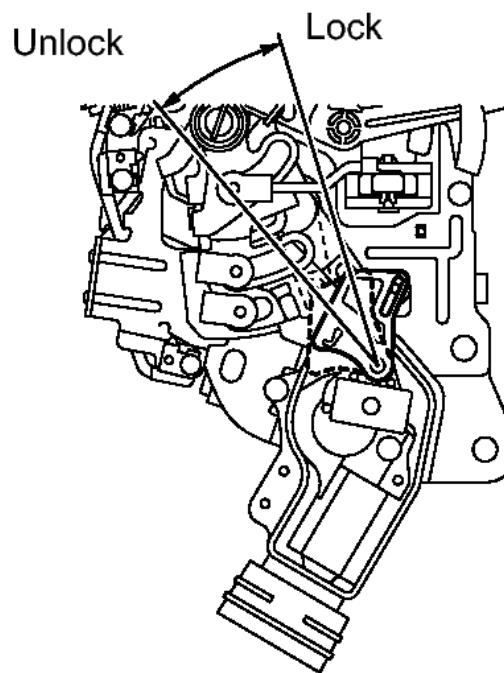
Tester Connection	Condition	Specified Condition
1 (GND) -		

4 (DS2)	Inner Handle Pulled	Below 1 ohms
1 (GND) - 3 (DS1)		
1 (GND) - 4 (DS2)	Inner Handle not Pulled	10 kohms or higher
1 (GND) - 3 (DS1)		

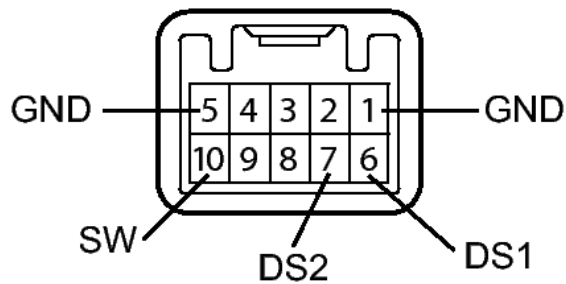
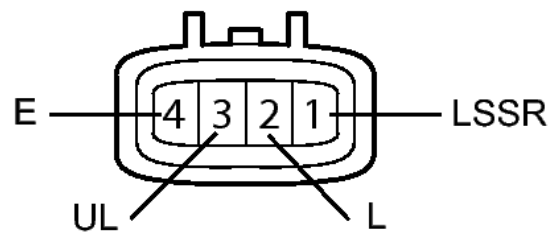
If the result is not as specified, replace the slide door handle.

6. INSPECT SLIDE DOOR HANDLE ASSEMBLY RH (w/ Smart Key System)

- a. Apply battery voltage to the motor terminals and check the operation of the door lock motor.



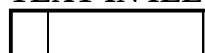
*a



Y

Fig. 48: Power Slide Door Motor Connector End View (RH) (w/ Smart Key System)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (slide door handle RH)
----	---

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 2 (L) Battery negative (-) -- > 3 (UL)	Locks
Battery positive (+) -- > 3 (UL) Battery negative (-) -- > 2 (L)	Unlocks

If the result is not as specified, replace the slide door handle.

- b. Measure the resistance according to the values in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
1 (LSSR) - 4 (E)	Locked	10 kohms or higher
1 (LSSR) - 4 (E)	Unlocked	Below 1 ohms

If the result is not as specified, replace the slide door handle.

- c. Measure the resistance according to the values in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
1 (GND) -		

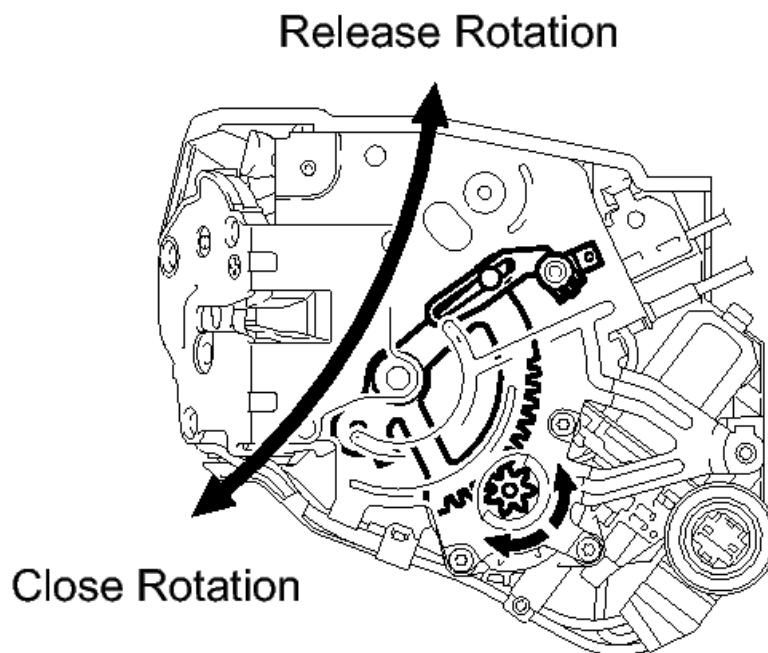
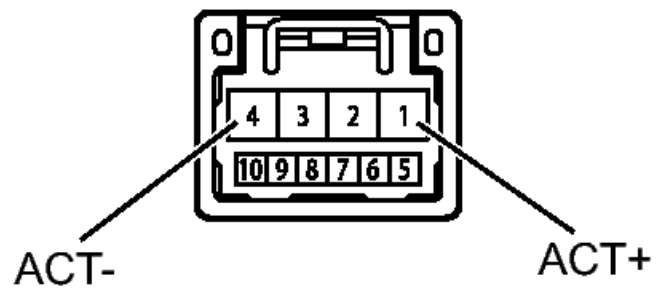
6 (DS1)	Inner Handle Pulled	Below 1 ohms
1 (GND) - 7 (DS2)		
5 (GND) - 10 (SW)		
1 (GND) - 6 (DS1)	Inner Handle not Pulled	10 kohms or higher
1 (GND) - 7 (DS2)		
5 (GND) - 10 (SW)		

If the result is not as specified, replace the slide door handle.

7. INSPECT POWER SLIDE DOOR LOCK ASSEMBLY LH

- a. Check the operation of the slide door closer motor.

*a



P

Fig. 49: Power Slide Door Lock Assembly Connector End View (LH)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (Power Slide Door Lock Assembly LH)
----	---

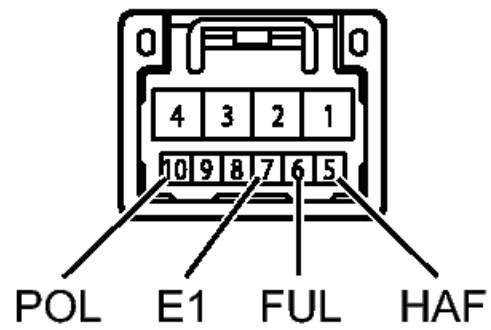
OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 1 (ACT+) Battery negative (-) -- > 4 (ACT-)	Close rotation
Battery positive (+) -- > 4 (ACT-) Battery negative (-) -- > 1 (ACT+)	Release rotation

If the result is not as specified, replace the power slide door lock.

- b. Measure the resistance according to the values in the table below.

*a



Over Latch Full Latch

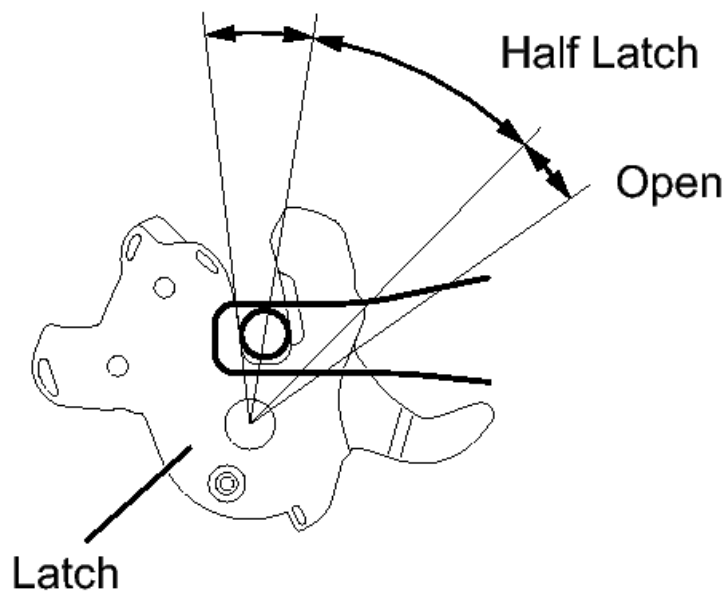


Fig. 50: Power Slide Door Lock Assembly Connector End View (LH)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (Power Slide Door Lock Assembly LH)
----	---

Standard Resistance

Full Latch Switch

Half Latch Switch

Pawl Switch

Tester Connection	Condition	Specified Condition
6 (FUL) - 7 (E1)	Open	Below 1 ohms
	Half latch	
	Full latch	10 kohms
	Over latch	or higher

Tester Connection	Condition	Specified Condition
5 (HAF) - 7 (E1)	Open	Below 1 ohms
	Full latch	10 kohms
	Over latch	or higher

Tester Connection	Condition	Specified Condition
10 (POL) - 7 (E1)	Open	10 kohms or higher
	Between open and half latch	10 kohms or higher -> Below 1 ohms
	Half latch	10 kohms or higher
	Between half latch and full	10 kohms or higher -> Below

	latch	1 ohms
	Full latch	10 kohms
	Over latch	or higher

- c. Measure the resistance according to the values in the table below.

*a

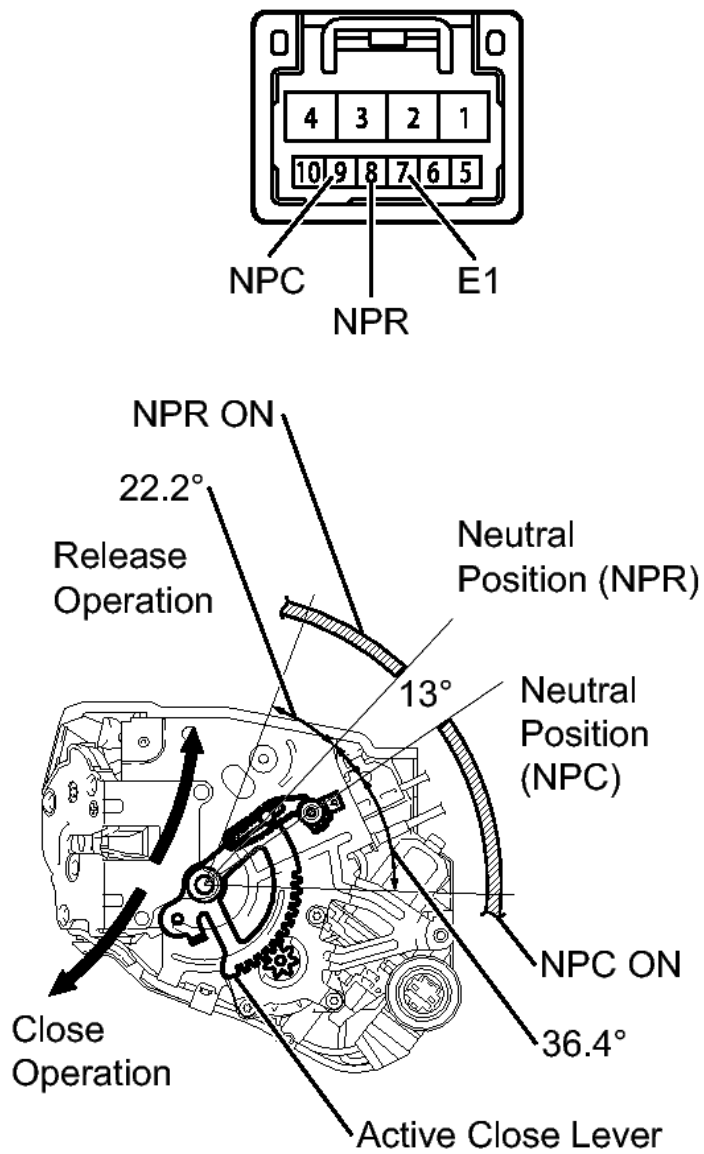
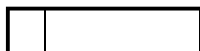


Fig. 51: Power Slide Door Lock Assembly Connector End View (LH)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (Power Slide Door Lock Assembly LH)
----	---

Standard Resistance

Neutral Position Switch (NPR)

Neutral Position Switch (NPC)

Tester Connection	Condition	Specified Condition
7 (E1) - 8 (NPR)	Neutral Position (NPR)	10 kohms or higher
	Neutral Position (NPC)	
	Active lever moved to release operation side	Below 1 ohms
	Active lever moved to close operation side	10 kohms or higher

Tester Connection	Condition	Specified Condition
	Neutral Position (NPR)	10 kohms or higher
	Neutral Position (NPC)	
	Active	

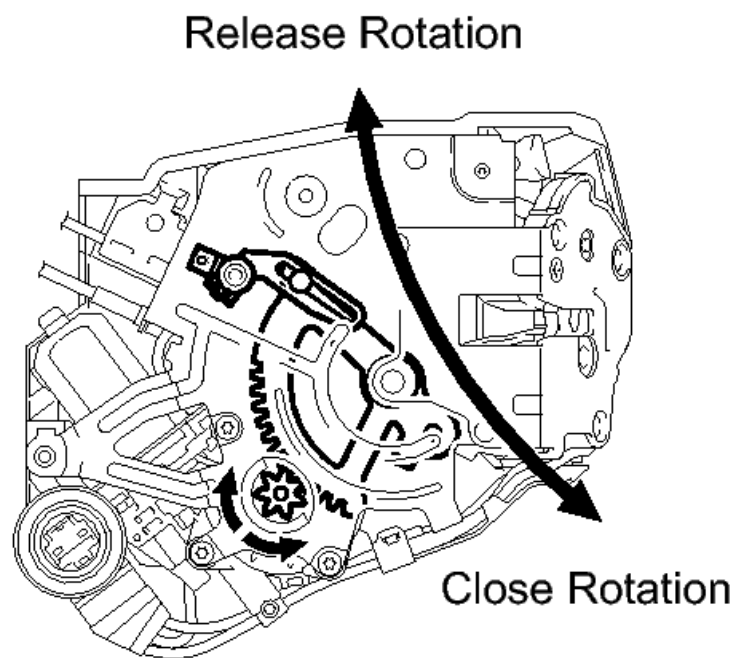
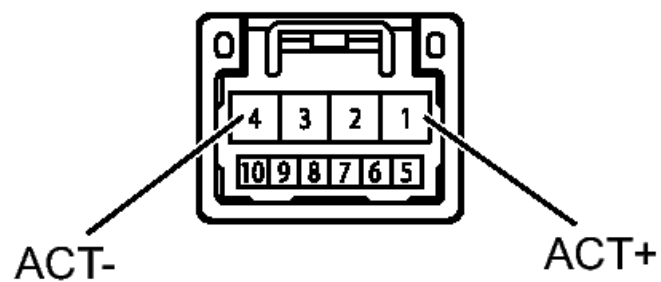
7 (E1) - 9 (NPC)	lever moved to release operation side	Below 1 ohms
	Active lever moved to close operation side	10 kohms or higher

If the result is not as specified, replace the power slide door lock.

8. INSPECT POWER SLIDE DOOR LOCK ASSEMBLY RH

- a. Check the operation of the slide door closer motor.

*a



P

Fig. 52: Power Slide Door Lock Assembly Connector End View (RH)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (Power Slide Door Lock Assembly RH)
----	---

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 1 (ACT+) Battery negative (-) -- > 4 (ACT-)	Close rotation
Battery positive (+) -- > 4 (ACT-) Battery negative (-) -- > 1 (ACT+)	Release rotation

If the result is not as specified, replace the power slide door lock.

- b. Measure the resistance according to the values in the table below.

*a

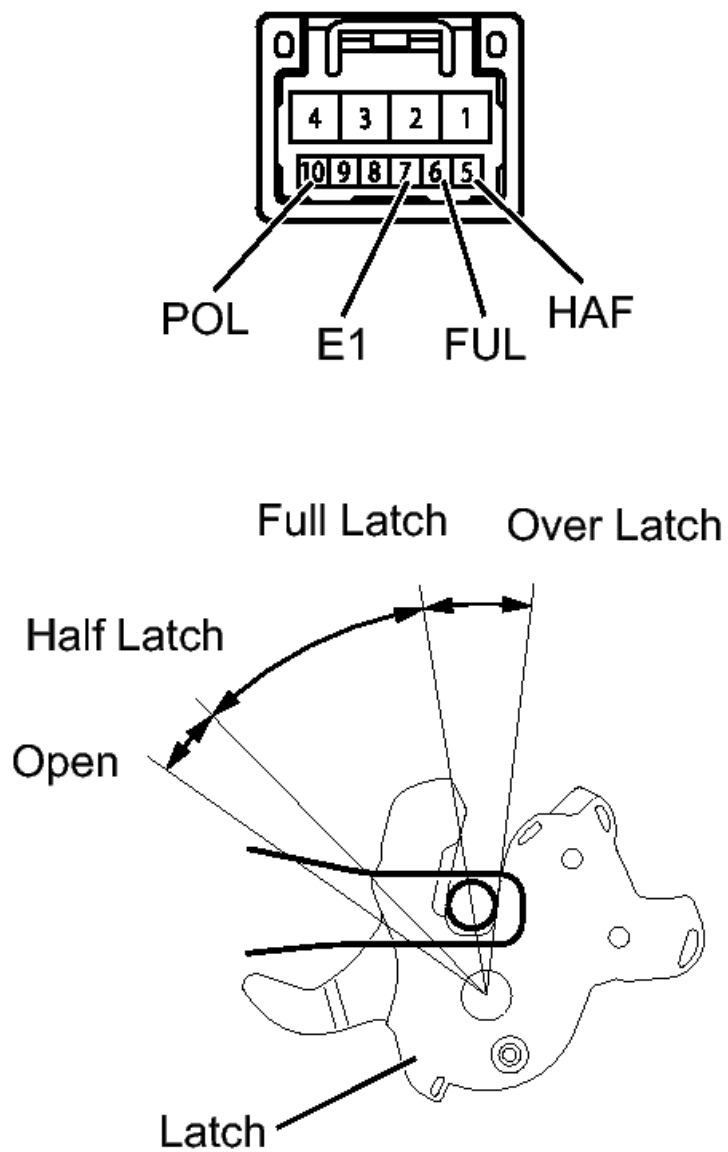
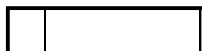


Fig. 53: Power Slide Door Lock Assembly Connector end View (RH)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (Power Slide Door Lock Assembly RH)
----	---

Standard Resistance

Full Latch Switch

Half Latch Switch

Pawl Switch

Tester Connection	Condition	Specified Condition
6 (FUL) - 7 (E1)	Open	Below 1 ohms
	Half latch	
	Full latch	10 kohms or higher
	Over latch	

Tester Connection	Condition	Specified Condition
5 (HAF) - 7 (E1)	Open	Below 1 ohms
	Full latch	10 kohms or higher
	Over latch	

Tester Connection	Condition	Specified Condition
10 (POL) - 7 (E1)	Open	10 kohms or higher
	Between open and half latch	10 kohms or higher -> Below 1 ohms
	Half latch	10 kohms or higher
	Between half latch and full	10 kohms or higher -> Below

	latch	1 ohms
	Full latch	10 kohms
	Over latch	or higher

- c. Measure the resistance according to the values in the table below.

*a

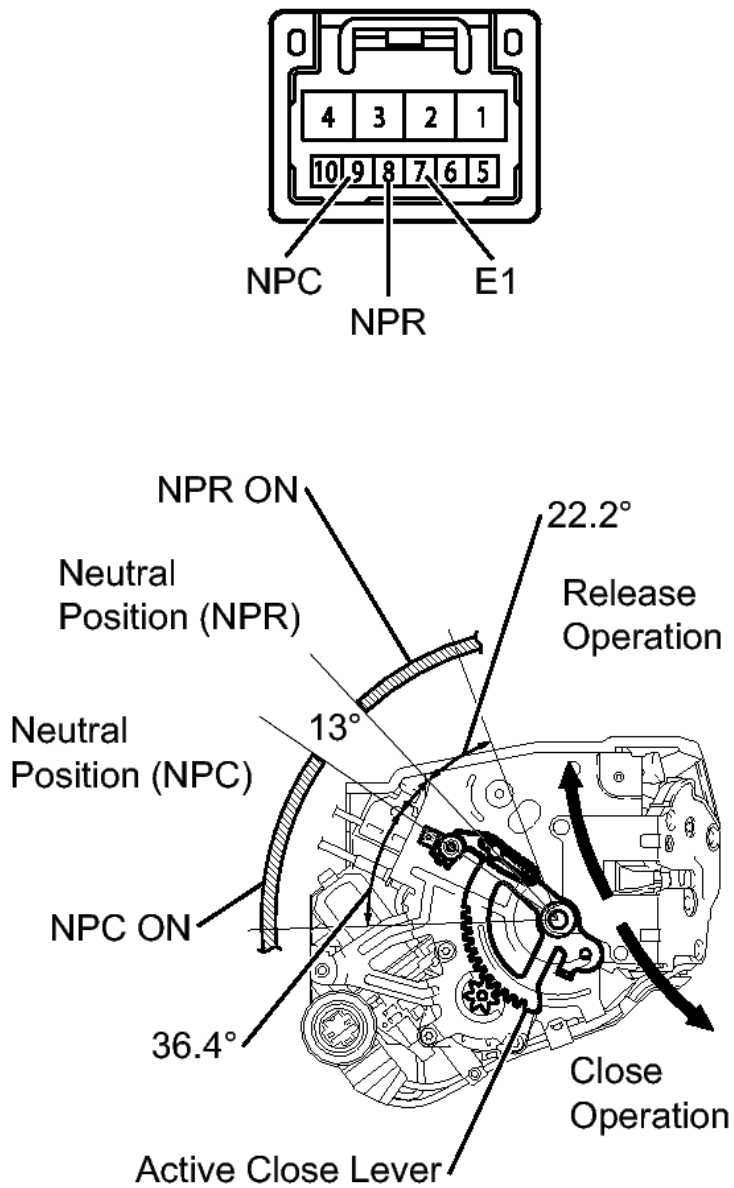
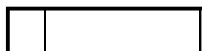


Fig. 54: Measuring Power Slide Door Lock Assembly RH Resistance
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION



*a	Component without harness connected (Power Slide Door Lock Assembly RH)
----	---

Standard Resistance

Neutral Position Switch (NPR)

Neutral Position Switch (NPC)

Tester Connection	Condition	Specified Condition
7 (E1) - 8 (NPR)	Neutral Position (NPR)	10 kohms or higher
	Neutral Position (NPC)	
	Active lever moved to release operation side	Below 1 ohms
	Active lever moved to close operation side	10 kohms or higher

Tester Connection	Condition	Specified Condition
	Neutral Position (NPR)	10 kohms or higher
	Neutral Position (NPC)	
	Active	

7 (E1) - 9 (NPC)	lever moved to release operation side	Below 1 ohms
	Active lever moved to close operation side	10 kohms or higher

If the result is not as specified, replace the power slide door lock.

INSTALLATION

INSTALLATION

1. INSTALL SLIDE DOOR REAR LOCK ASSEMBLY (w/o Power Slide Door)

- Apply MP grease to the sliding parts of the slide door rear lock.
- Using a T30 "TORX" socket wrench, install the slide door rear lock with the 3 screws.

Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

- Engage the 2 clamps.

2. INSTALL POWER SLIDE DOOR LOCK ASSEMBLY (w/ Power Slide Door)

- Apply MP grease to the sliding parts of the slide door rear lock.
- Using a T30 "TORX" socket wrench, install the slide door rear lock with the 3 screws.

Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

- Install the bolt.

Torque: 5.6 N*m (57 kgf*cm, 50 in.*lbf)

- Engage the clamps.

3. INSTALL SLIDE DOOR FRONT LOCK ASSEMBLY

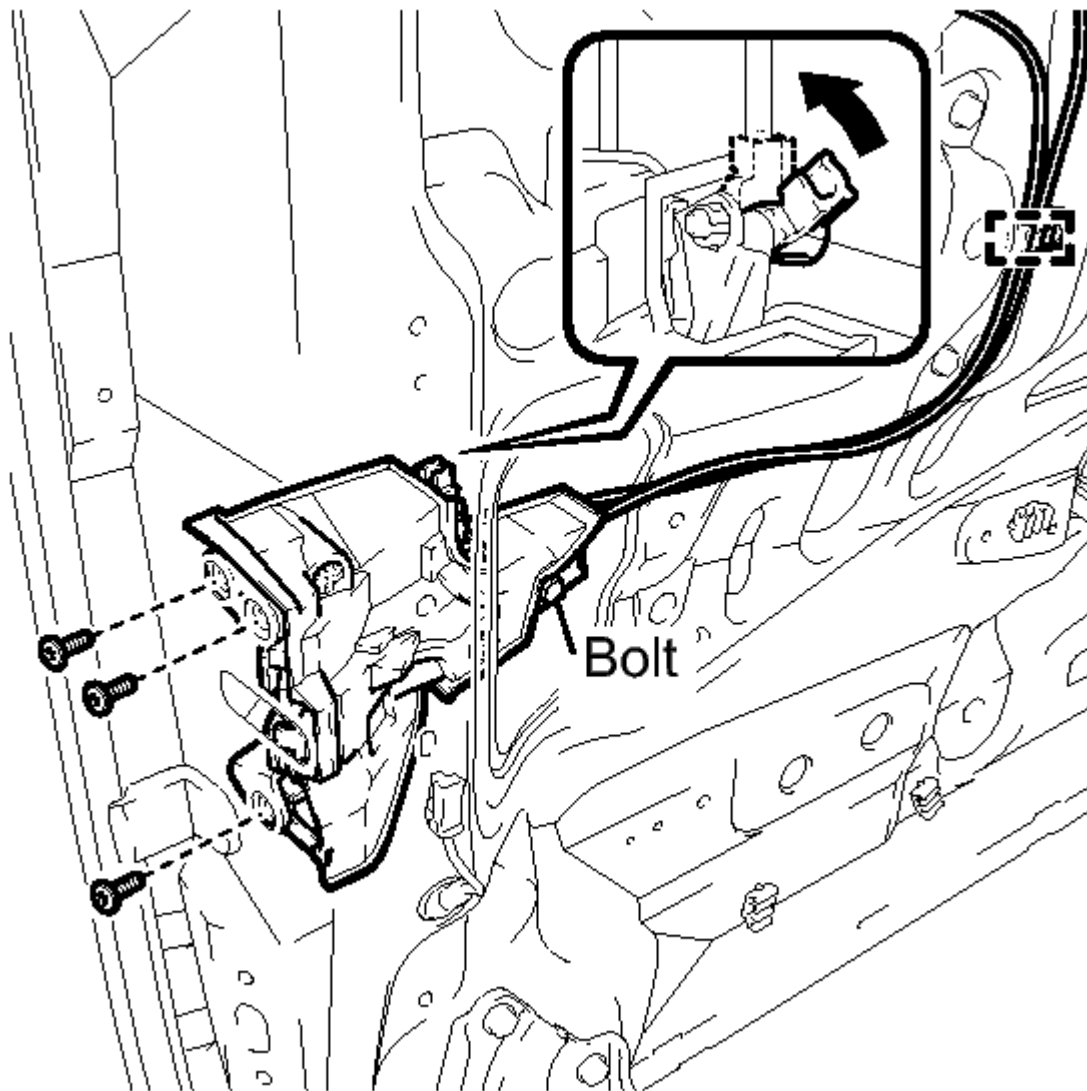


Fig. 55: Identifying Slide Door Front Lock Assembly & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Apply MP grease to the sliding parts of the slide door front lock.
- b. At the time of reuse
 1. Using a T30 "TORX" socket wrench, install the slide door front lock with the 3 screws.

Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

2. Loosen the bolt.
3. Connect the rod.
4. Adjust the cable as shown in the illustration.

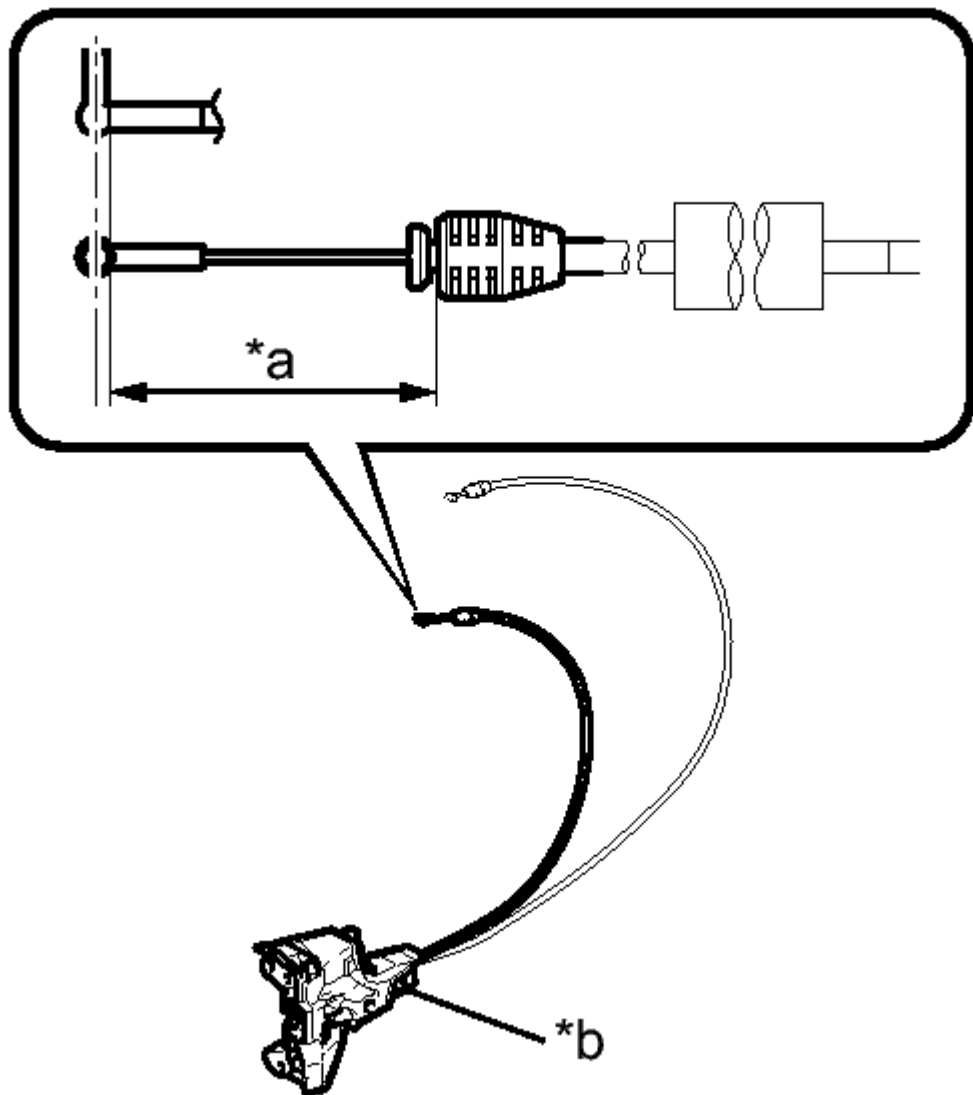


Fig. 56: Identifying Sliding Door Front Lock Assembly Cable Adjustment
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	50.9 mm (2.004 in.)
*b	Bolt

5. Tighten the bolt.

Torque: 5.6 N*m (57 kgf*cm, 50 in.*lbf)

- c. At the time of new article exchange

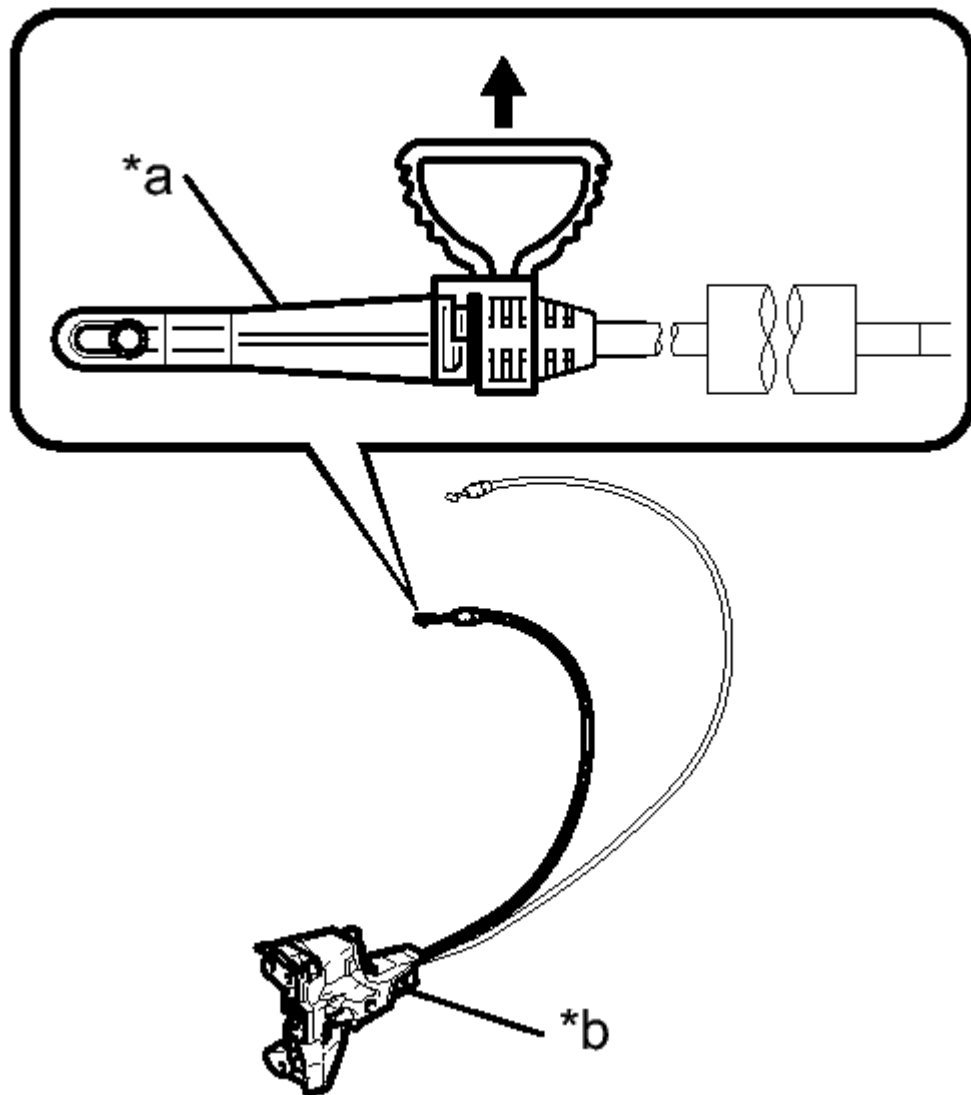


Fig. 57: Identifying Sliding Door Front Lock Assembly Cable & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	Clamp
*b	Bolt

1. Using a T30 "TORX" socket wrench, install the slide door front lock with the 3 screws.

Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

2. Connect the rod.
3. Tighten the bolt.

Torque: 5.6 N*m (57 kgf*cm, 50 in.*lbf)

4. Remove the clamp.
 - d. Disengage the clamp.
4. **INSTALL REAR DOOR INSIDE LOCKING LINK PROTECTOR** . Refer to **REASSEMBLY - Step 19**
5. **INSTALL REAR DOOR WINDOW REAR LOWER FRAME SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 21**
6. **INSTALL REAR DOOR GLASS SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 23**
7. **INSTALL NO. 2 REAR DOOR GLASS RUN** . Refer to **REASSEMBLY - Step 24**
8. **INSTALL REAR DOOR GLASS RUN** . Refer to **REASSEMBLY - Step 26**
9. **INSTALL REAR DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**

HINT:

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

10. **INSTALL REAR DOOR WINDOW FRAME REAR MOULDING**

HINT:

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

11. **INSTALL SLIDE DOOR SERVICE HOLE COVER** . Refer to **REASSEMBLY - Step 29**
12. **INSTALL POWER SLIDE DOOR MOTOR UNIT (w/ Power Slide Door)** . Refer to **INSTALLATION - Step 1**
13. **INSTALL SLIDE RAIL END MOULDING (w/ Power Slide Door)** . Refer to **REASSEMBLY - Step 32**
14. **INSTALL QUARTER WINDOW GLASS (w/ Power Slide Door)**

Refer to **INSTALLATION**

15. **INSTALL REAR DOOR WIRE (w/o Power Slide Door)** . Refer to **REASSEMBLY - Step 34**
16. **INSTALL REAR DOOR WIRE (w/ Power Slide Door)** . Refer to **REASSEMBLY - Step 35**
17. **INSTALL QUARTER TRIM COVER HOLE** . Refer to **REASSEMBLY - Step 36**
18. **INSTALL REAR DOOR SCUFF PLATE** . Refer to **INSTALLATION - Step 27**
19. **INSTALL SLIDE DOOR HANDLE ASSEMBLY (w/o Power Slide Door)**
 - a. Connect each cable to the slide door lock remote control.
 - b. Engage the guide and install the slide door lock remote control.
 - c. Install the 3 bolts.

Torque: 7.1 N*m (72 kgf*cm, 63 in.*lbf)

- d. Connect each connector.

20. INSTALL SLIDE DOOR HANDLE ASSEMBLY (w/ Power Slide Door)

- a. Connect each cable to the slide door lock remote control.
- b. Engage the guide and install the slide door lock remote control.
- c. Install the 3 bolts.

Torque: 7.1 N*m (72 kgf*cm, 63 in.*lbf)

- d. Connect each connector.

21. INSTALL REAR DOOR GLASS WEATHERSTRIP INNER WITH GARNISH . Refer to REASSEMBLY - Step 43

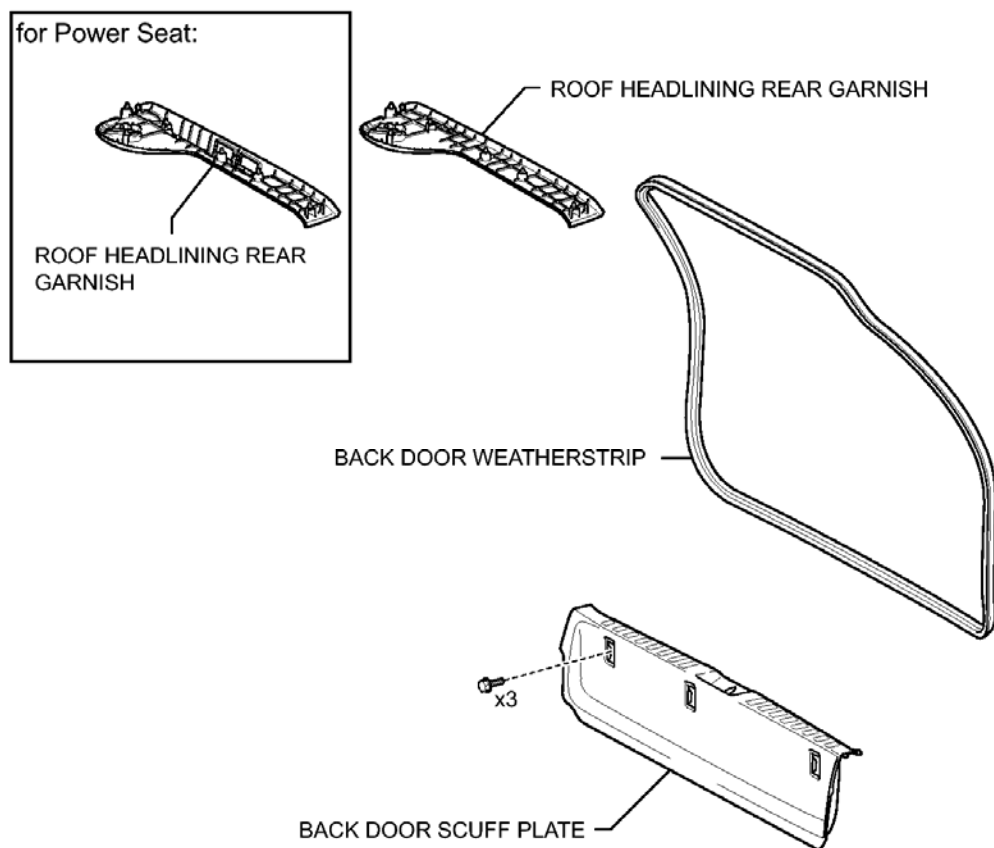
22. INSTALL REAR DOOR TRIM BOARD SUB-ASSEMBLY . Refer to REASSEMBLY - Step 45

23. INSTALL REAR DOOR ARMREST BASE UPPER PANEL . Refer to REASSEMBLY - Step 46

DOOR CONTROL RECEIVER

COMPONENTS

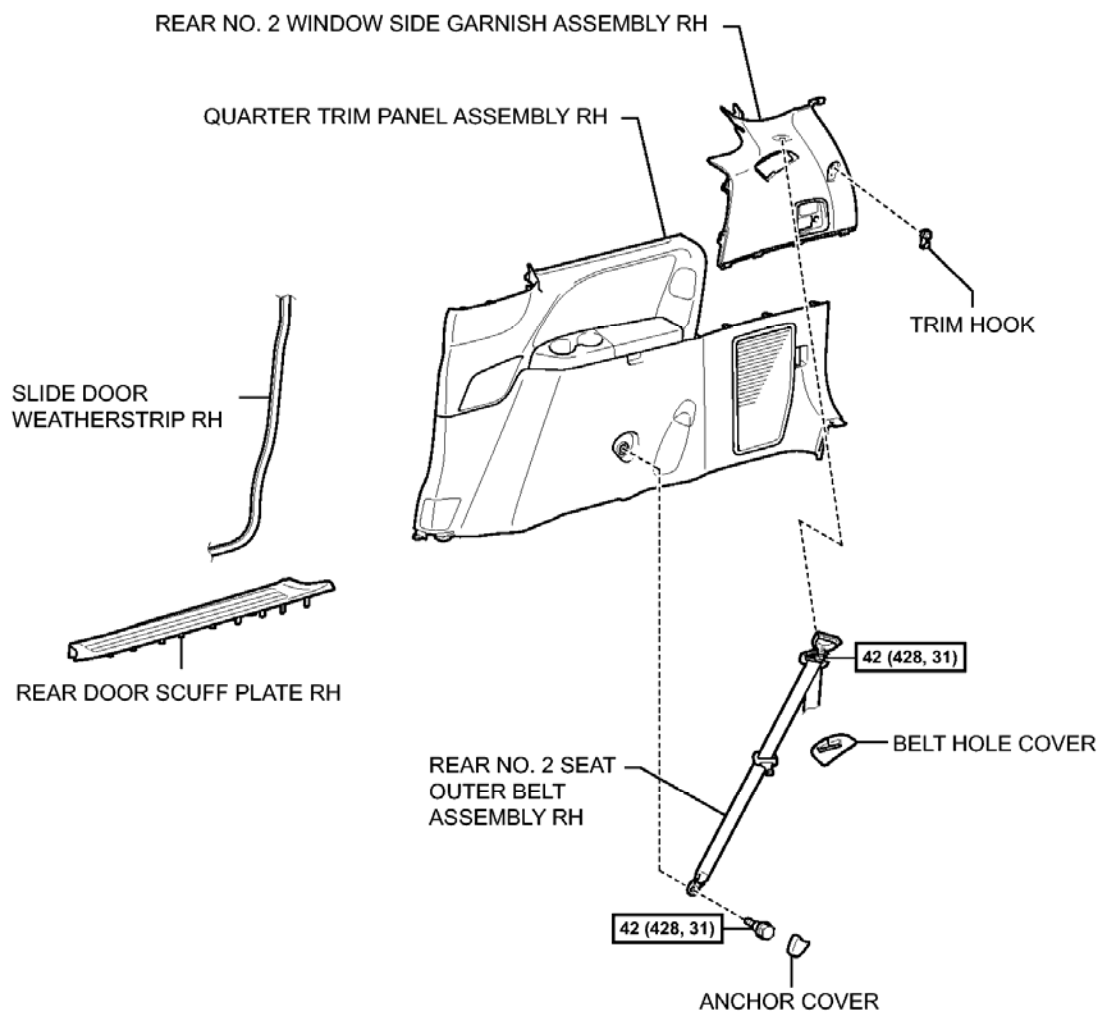
ILLUSTRATION



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Fig. 58: Door Control Receiver Replacement Components (1 of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

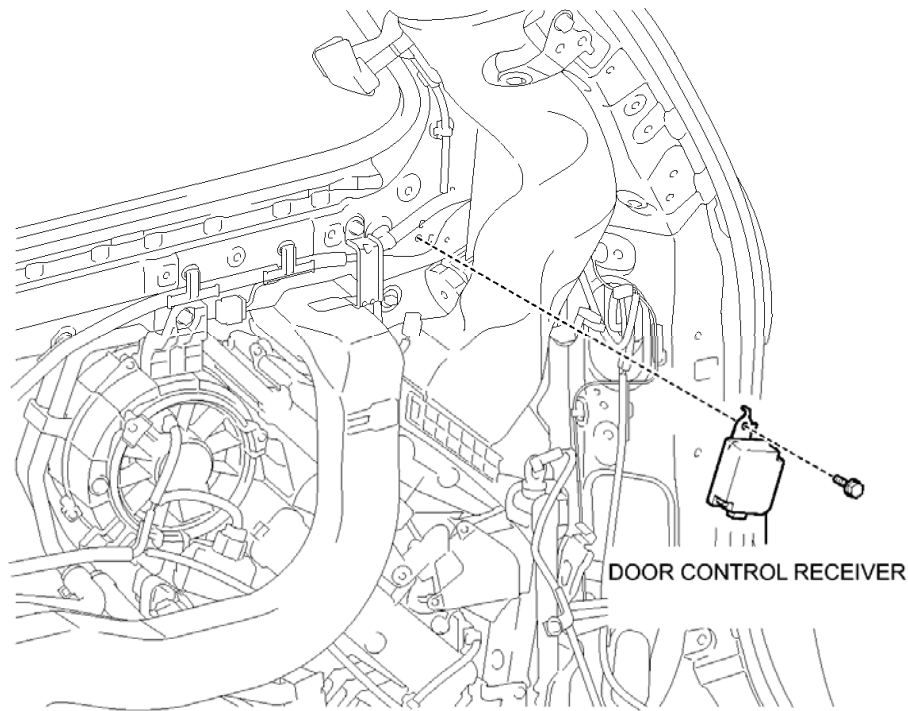
ILLUSTRATION



$\boxed{\text{N}\cdot\text{m (kgf}\cdot\text{cm, ft}\cdot\text{lb)}} : \text{Specified torque}$

Fig. 59: Door Control Receiver 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

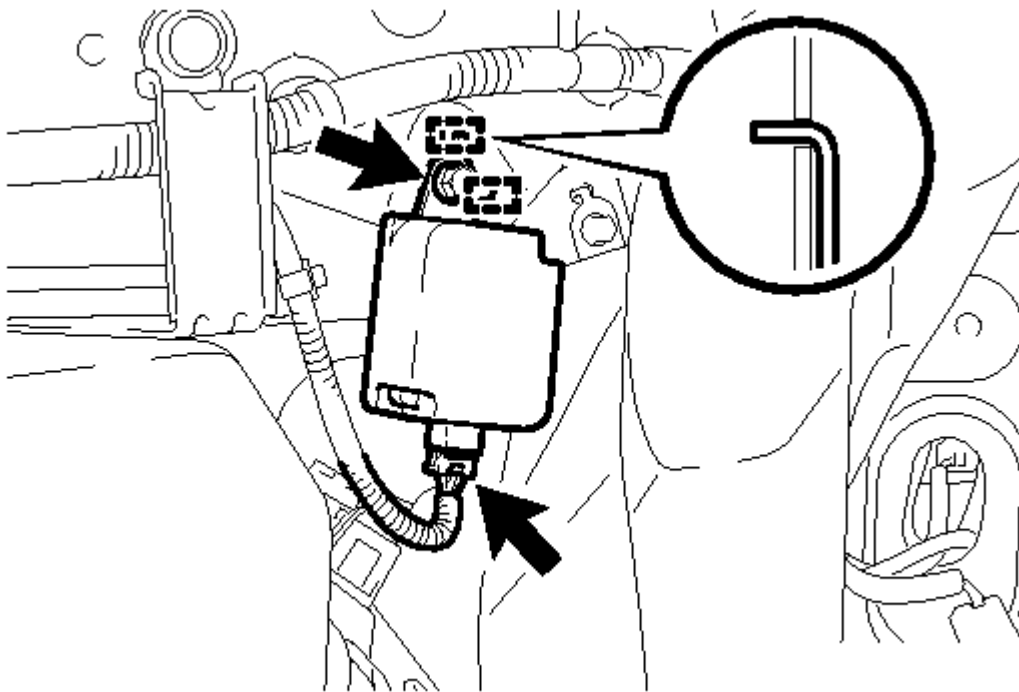
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Fig. 60: Door Control Receiver Replacement Components With Torque Specifications (3 of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE BACK DOOR WEATHERSTRIP
2. REMOVE BACK DOOR SCUFF PLATE . Refer to **REMOVAL - Step 17**
3. REMOVE ROOF HEADLINING REAR GARNISH . Refer to **REMOVAL - Step 19**
4. REMOVE REAR NO. 2 SEAT OUTER BELT ASSEMBLY RH . Refer to **REMOVAL - Step 24**
5. REMOVE REAR DOOR SCUFF PLATE RH . Refer to **REMOVAL - Step 13**
6. SEPARATE SLIDE DOOR WEATHERSTRIP RH
7. REMOVE QUARTER TRIM PANEL ASSEMBLY RH . Refer to **REMOVAL - Step 26**
8. REMOVE REAR NO. 2 WINDOW SIDE GARNISH ASSEMBLY RH . Refer to **REMOVAL - Step 28**
9. REMOVE DOOR CONTROL RECEIVER



P

Fig. 61: Identifying Door Control Receiver, Connector & Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disconnect the connector.
- b. Remove the bolt, disengage the 2 guides and remove the door control receiver.

INSTALLATION

INSTALLATION

1. INSTALL DOOR CONTROL RECEIVER

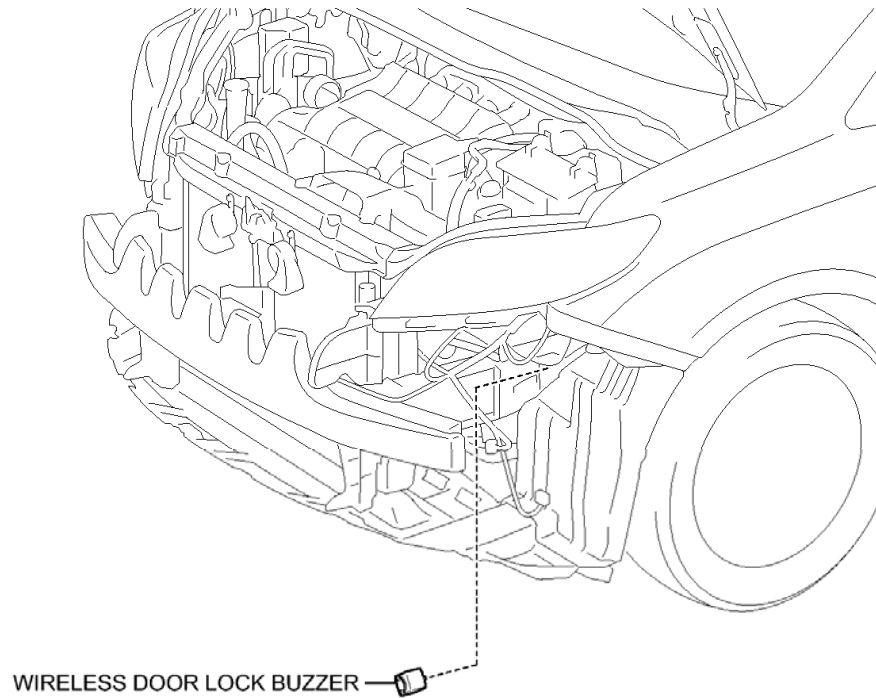
- a. Engage the 2 guides and install the door control receiver with the bolt.
- b. Connect the connector.

2. **INSTALL REAR NO. 2 WINDOW SIDE GARNISH ASSEMBLY RH** . Refer to **INSTALLATION - Step 12**
3. **INSTALL QUARTER TRIM PANEL ASSEMBLY RH** . Refer to **REMOVAL - Step 26**
4. **INSTALL SLIDE DOOR WEATHERSTRIP RH**
5. **INSTALL REAR DOOR SCUFF PLATE RH** . Refer to **INSTALLATION - Step 27**
6. **INSTALL REAR NO. 2 SEAT OUTER BELT ASSEMBLY RH** . Refer to **INSTALLATION - Step 16**
7. **INSTALL ROOF HEADLINING REAR GARNISH** . Refer to **INSTALLATION - Step 22**
8. **INSTALL BACK DOOR SCUFF PLATE** . Refer to **INSTALLATION - Step 24**
9. **INSTALL BACK DOOR WEATHERSTRIP**

WIRELESS DOOR LOCK BUZZER

COMPONENTS

ILLUSTRATION



P

Fig. 62: Wireless Door Lock Buzzer Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

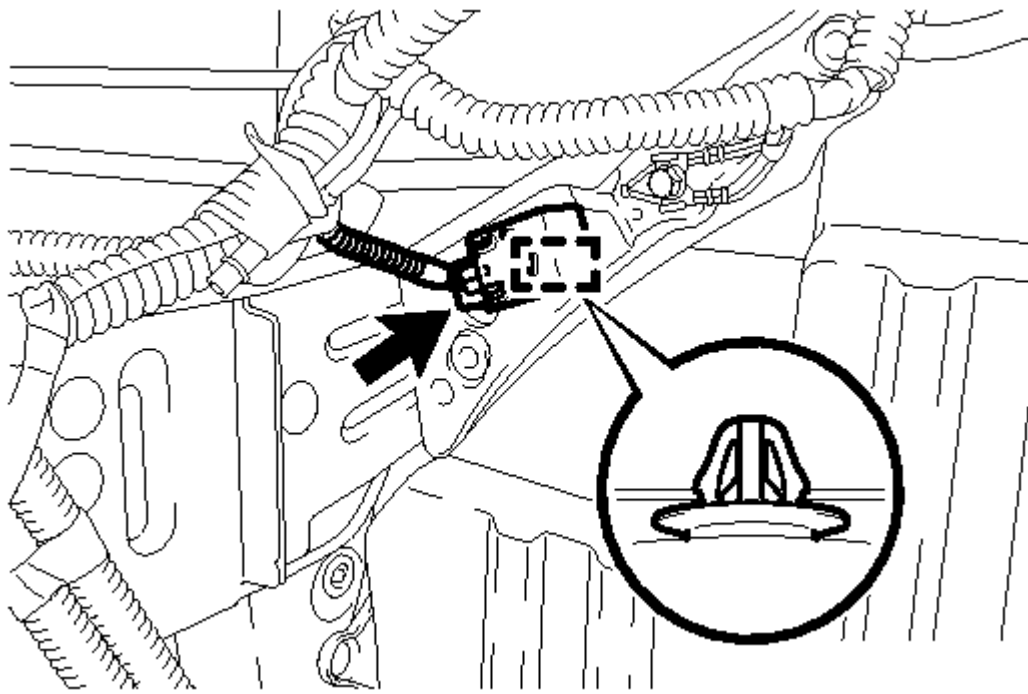
REMOVAL

REMOVAL

1. REMOVE FRONT BUMPER ASSEMBLY

Refer to **REMOVAL**

2. REMOVE WIRELESS DOOR LOCK BUZZER



P

Fig. 63: Identifying Wireless Door Lock Buzzer, Connector & Clamp
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disconnect the connector.
- b. Disengage the clamp and remove the wireless door lock buzzer.

INSTALLATION

INSTALLATION

1. INSTALL WIRELESS DOOR LOCK BUZZER

- a. Install the wireless door lock buzzer.
- b. Connect the connector.

2. INSTALL FRONT BUMPER ASSEMBLY

Refer to **INSTALLATION**