

2008 Scion xD

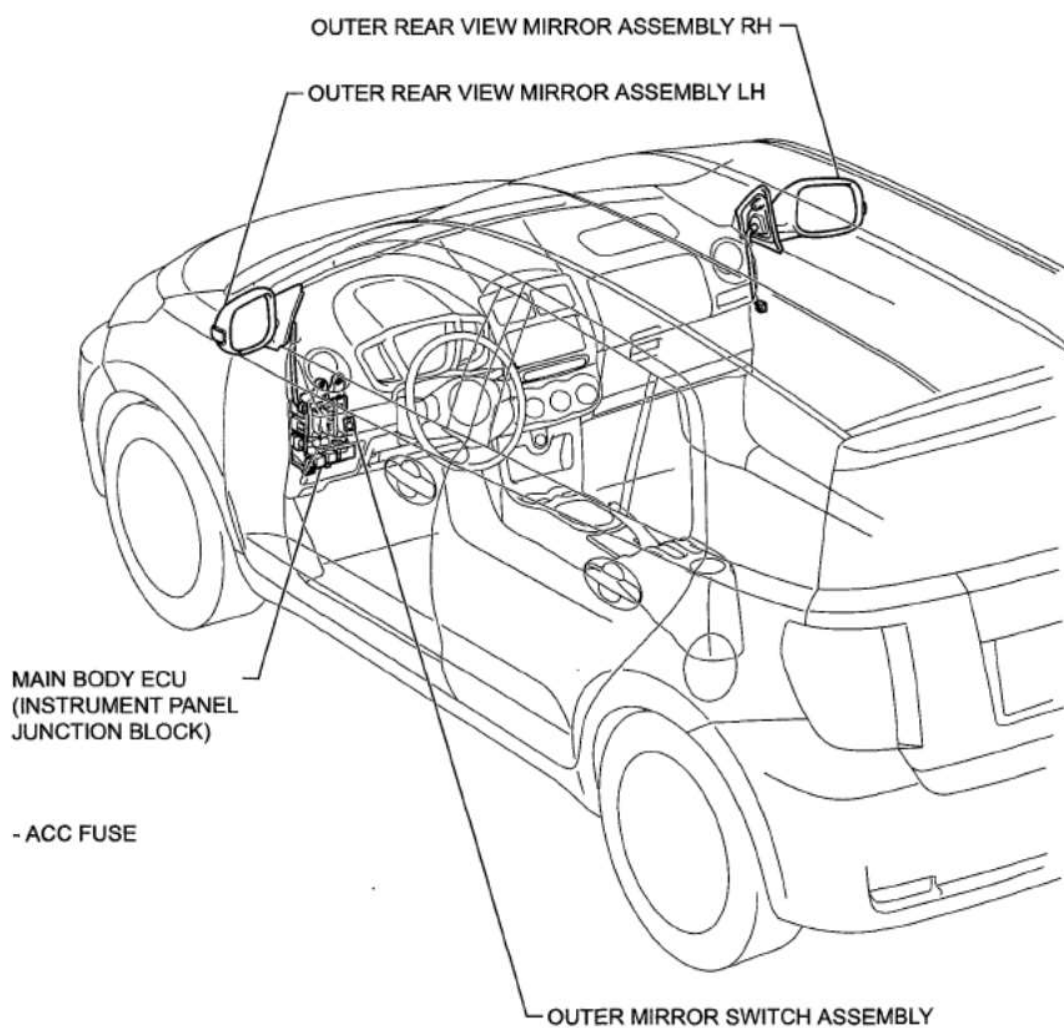
2008 ACCESSORIES AND EQUIPMENT Mirror - xD

2008 ACCESSORIES AND EQUIPMENT

Mirror - xD

POWER MIRROR CONTROL SYSTEM

PARTS LOCATION



81630B1E01

Fig. 1: Identifying Power Mirror Control System Components

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

SYSTEM DIAGRAM

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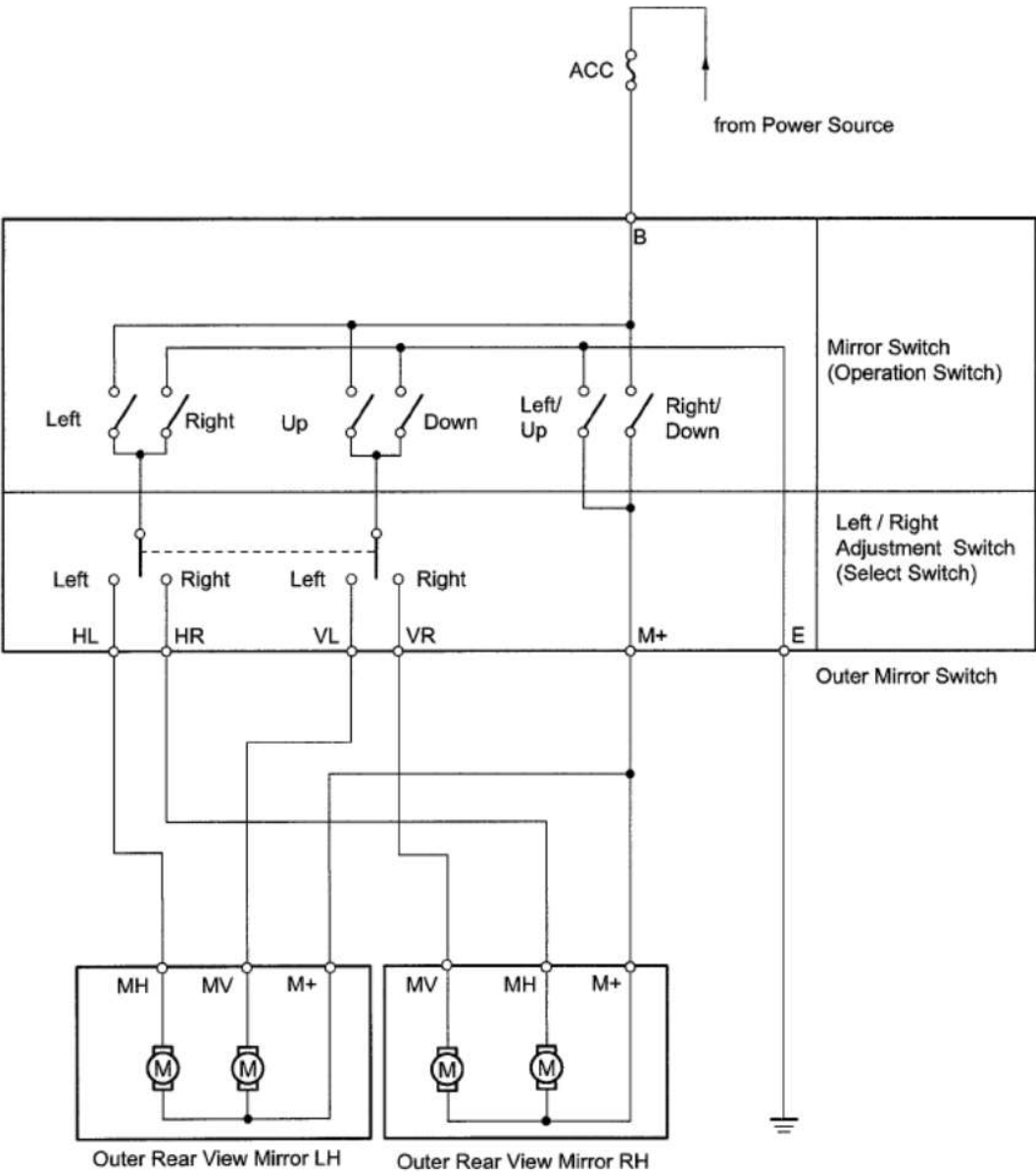


Fig. 2: Power Mirror Control System Diagram
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

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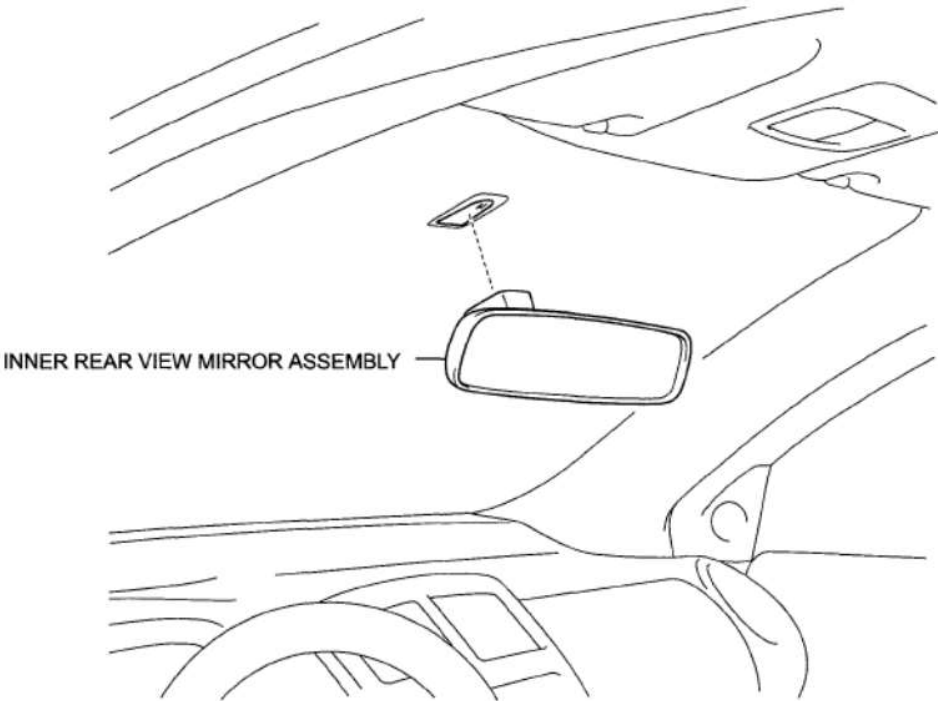
Power mirror control system

PROBLEM SYMPTOMS CHART - POWER MIRROR CONTROL SYSTEM

Symptom	Suspected Area	See
Mirror does not operate	ACC fuse	<u>POWER MIRROR CONTROL SYSTEM</u>
	Outer mirror switch assembly	<u>OUTER MIRROR SWITCH</u>
	Outer rear view mirror assembly	<u>OUTER REAR VIEW MIRROR</u>
	Wire harness	-
Mirror operates abnormally	Outer mirror switch assembly	<u>OUTER MIRROR SWITCH</u>
	Outer rear view mirror assembly	<u>OUTER REAR VIEW MIRROR</u>
	Wire harness	-

INNER REAR VIEW MIRROR

COMPONENTS



Y

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Fig. 3: Identifying Inner Rear View Mirror Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Mirror - xD****REMOVAL****1. REMOVE INNER REAR VIEW MIRROR ASSEMBLY**

- Push the cover in the directions indicated by the arrows labeled A and remove it.
- While holding down the claw in the direction of the black arrow labeled B, slide the mirror in the direction of the white arrow and remove it.

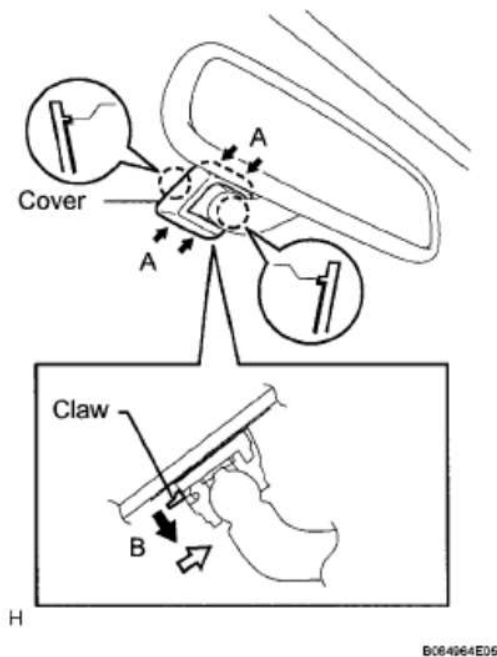


Fig. 4: Removing Inner Rear View Mirror Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION**1. INSTALL INNER REAR VIEW MIRROR ASSEMBLY**

- Install the inner rear view mirror as shown in the illustration.
- Install the cover.

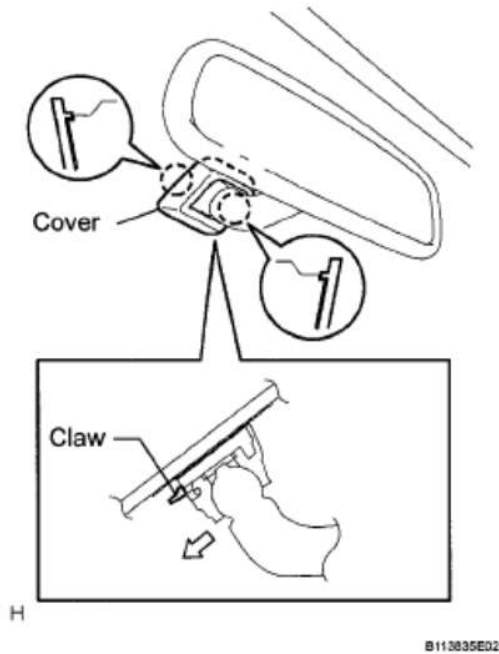
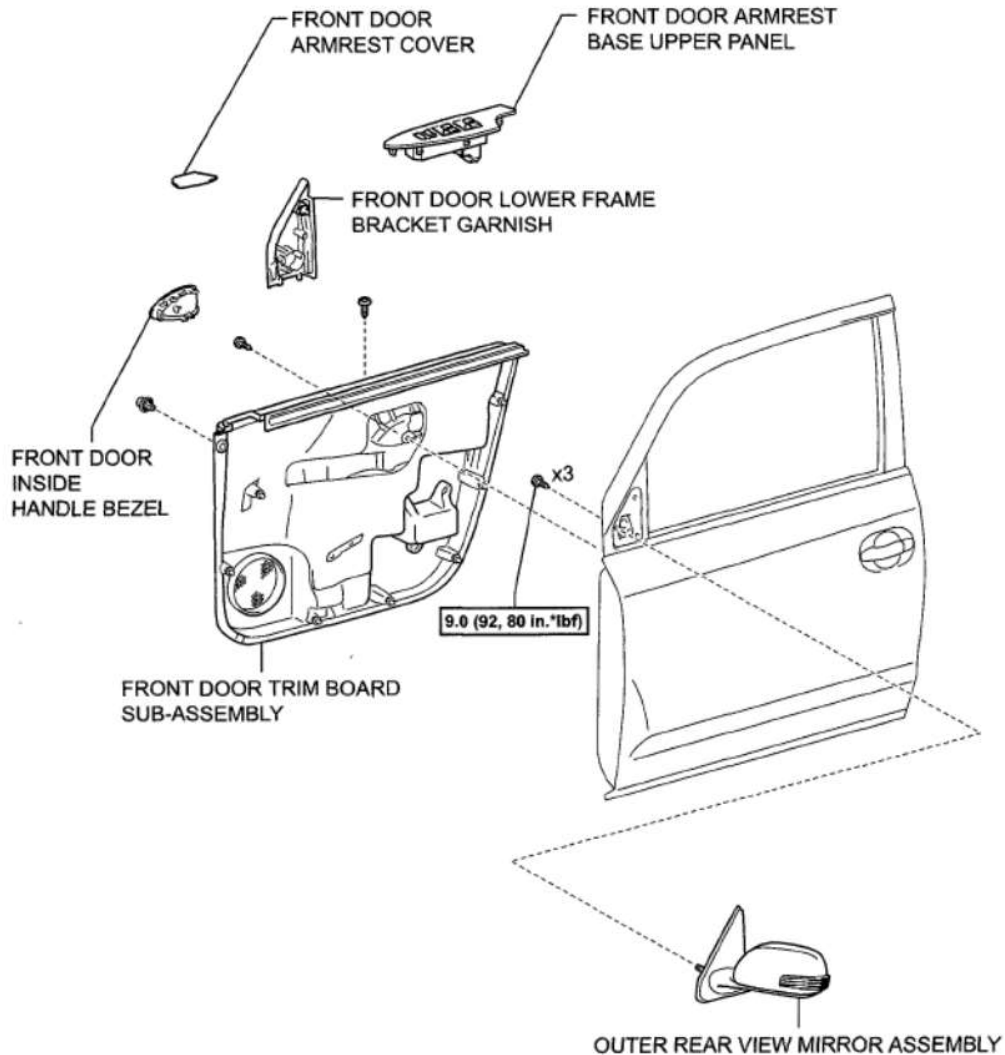
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Fig. 5: Installing Inner Rear View Mirror Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OUTER REAR VIEW MIRROR**COMPONENTS**

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

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Fig. 6: Identifying Outer Rear View Mirror Components With Torque Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. REMOVE FRONT DOOR ARMREST BASE UPPER PANEL

HINT:

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Use the same procedure as for the RH side (See **DISASSEMBLY**).

2. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH

HINT:

Use the same procedure as for the RH side (See **DISASSEMBLY**).

3. REMOVE FRONT DOOR INSIDE HANDLE BEZEL

HINT:

Use the same procedure as for the RH side (See **DISASSEMBLY**).

4. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY

HINT:

Use the same procedure as for the RH side (see **DISASSEMBLY**).

5. REMOVE OUTER REAR VIEW MIRROR ASSEMBLY

- a. Disconnect the connector.

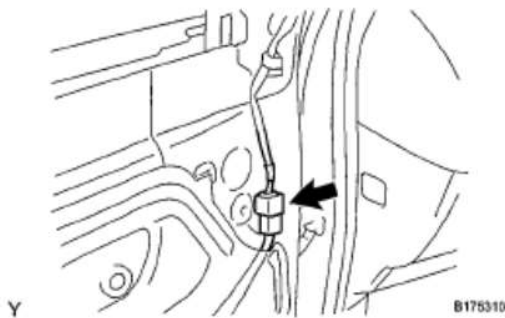


Fig. 7: Locating Connector

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

- b. Remove the 3 screws.

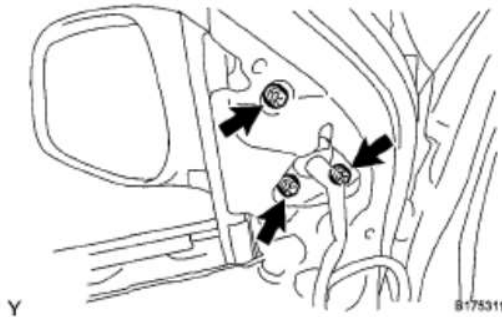
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Fig. 8: Locating Outer Rear View Mirror Assembly Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Remove the outer rear view mirror assembly.

INSPECTION**1. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY LH**

- a. Check the operation.
 1. Connect the positive (+) lead from the battery to terminal 4 (MV) and the negative (-) lead to terminal 5 (M+), then check that the mirror turns upward.

OK:

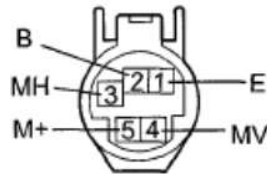
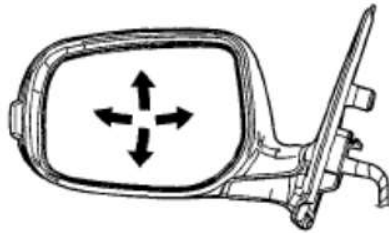
Turns upward

If the result is not as specified, replace the outer rear view mirror.

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Component without harness connected:
(Outer Rear View Mirror LH)



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Fig. 9: Inspecting Outer Rear View Mirror Assembly LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Connect the positive (+) lead from the battery to terminal 5 (M+) and the negative (-) lead to terminal 4 (MV), then check that the mirror turns downward.

OK:

Turns downward

If the result is not as specified, replace the outer rear view mirror.

3. Connect the positive (+) lead from the battery to terminal 3 (MH) and the negative (-) lead to terminal 5 (M+), then check that the mirror turns left.

OK:

Turns left

If the result is not as specified, replace the outer rear view mirror.

4. Connect the positive (+) lead from the battery to terminal 5 (M+) and the negative (-) lead to terminal 3 (MH), then check that the mirror turns right.

OK:

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Turns right

If the result is not as specified, replace the outer rear view mirror.

2. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH

a. Check the operation.

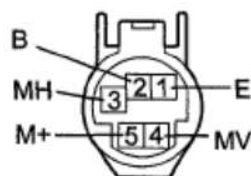
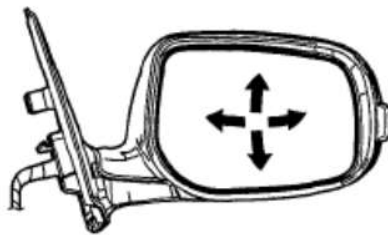
1. Connect the positive (+) lead from the battery to terminal 4 (MV) and the negative (-) lead to terminal 5(M+), then check that the mirror turns upward.

OK:

Turns upward

If the result is not as specified, replace the outer rear view mirror.

Component without harness connected:
(Outer Rear View Mirror RH)



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Fig. 10: Inspecting Outer Rear View Mirror Assembly RH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Connect the positive (+) lead from the battery to terminal 5 (M+) and the negative (-) lead to terminal 4 (MV), then check that the mirror turns downward.

OK:

Turns downward

If the result is not as specified, replace the outer rear view mirror.

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3. Connect the positive (+) lead from the battery to terminal 3 (MH) and the negative (-) lead to terminal 5 (M+), then check that the mirror turns left.

OK:

Turns left

If the result is not as specified, replace the outer rear view mirror.

4. Connect the positive (+) lead from the battery to terminal 5 (M+) and the negative (-) lead to terminal 3 (MH), then check that the mirror turns right.

OK:

Turns right

If the result is not as specified, replace the outer rear view mirror.

INSTALLATION

1. INSTALL OUTER REAR VIEW MIRROR ASSEMBLY

- a. Install the outer rear view mirror assembly.

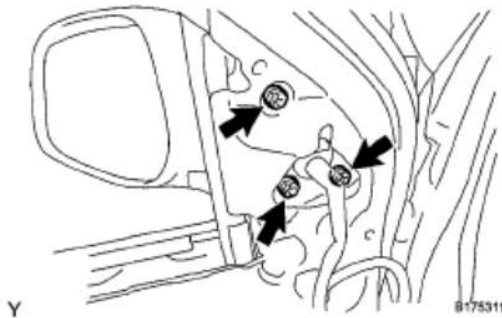
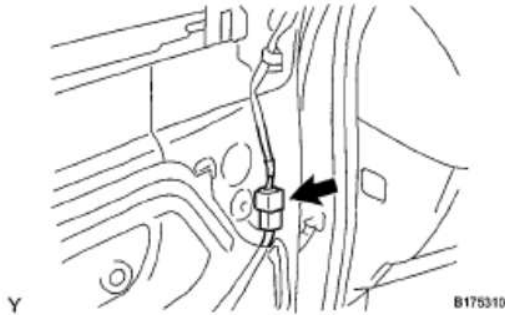


Fig. 11: Installing Outer Rear View Mirror Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Install the 3 screws.

Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)

- c. Connect the connector.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Mirror - xD****Fig. 12: Locating Connector**

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

2. INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY**HINT:**

Use the same procedure as for the RH side (See **REASSEMBLY**).

3. INSTALL FRONT DOOR INSIDE HANDLE BEZEL**HINT:**

Use the same procedure as for the RH side (See **REASSEMBLY**).

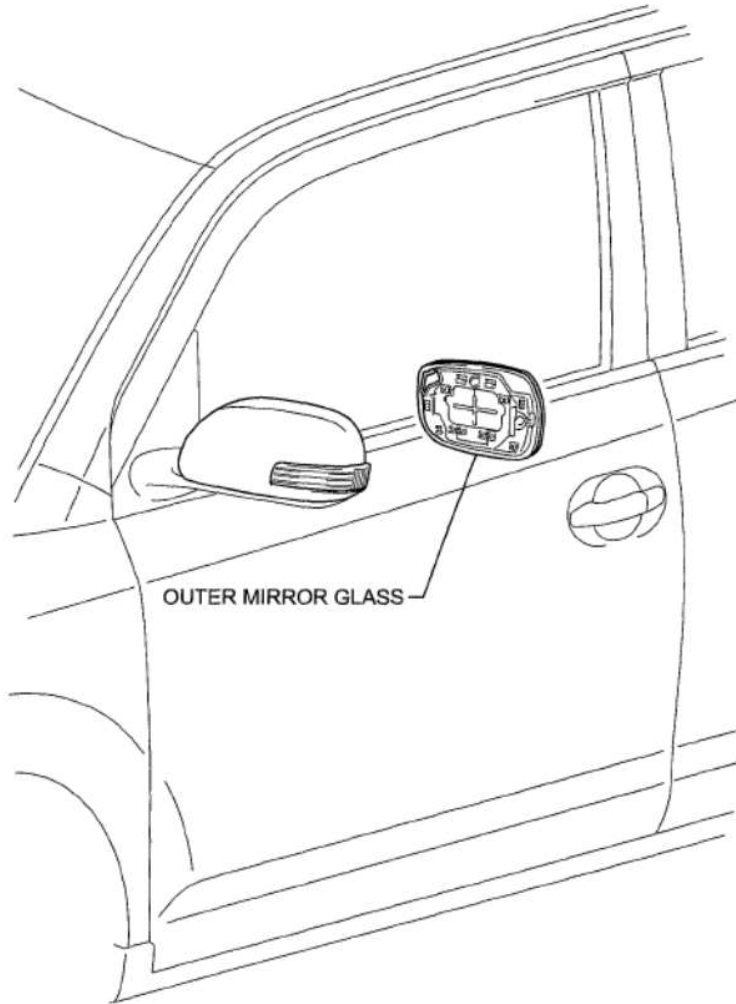
4. INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH**HINT:**

Use the same procedure as for the RH side (See **REASSEMBLY**).

5. INSTALL FRONT DOOR ARMREST BASE UPPER PANEL**HINT:**

Use the same procedure as for the RH side (See **REASSEMBLY**).

OUTER REAR VIEW MIRROR GLASS**COMPONENTS**

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Fig. 13: Identifying Outer Rear View Mirror Glass Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL**1. REMOVE OUTER MIRROR GLASS**

- a. Apply protective tape to the bottom of the visor of the door mirror.

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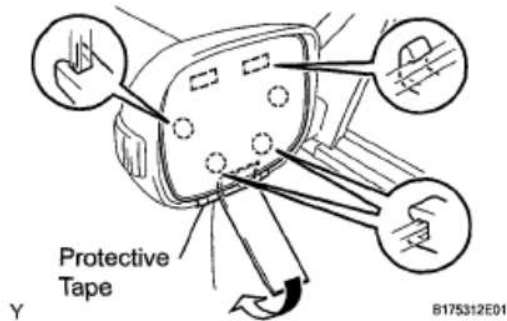


Fig. 14: Applying Protective Tape To Bottom Of Visor Of Door Mirror
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Push the upper part of the mirror surface and tilt it.
- c. Using a molding remover, disengage the 4 claws and 2 hooks.

INSTALLATION

1. INSTALL OUTER MIRROR GLASS

- a. Engage the 2 hooks on the upper part of the outer mirror glass to the outer rear view mirror.

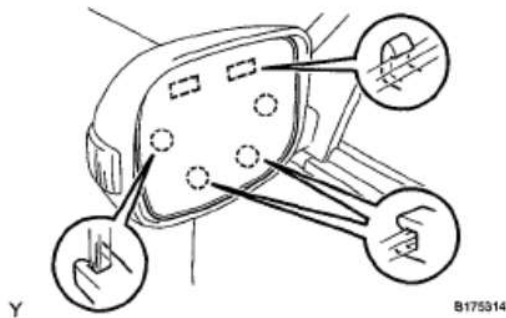
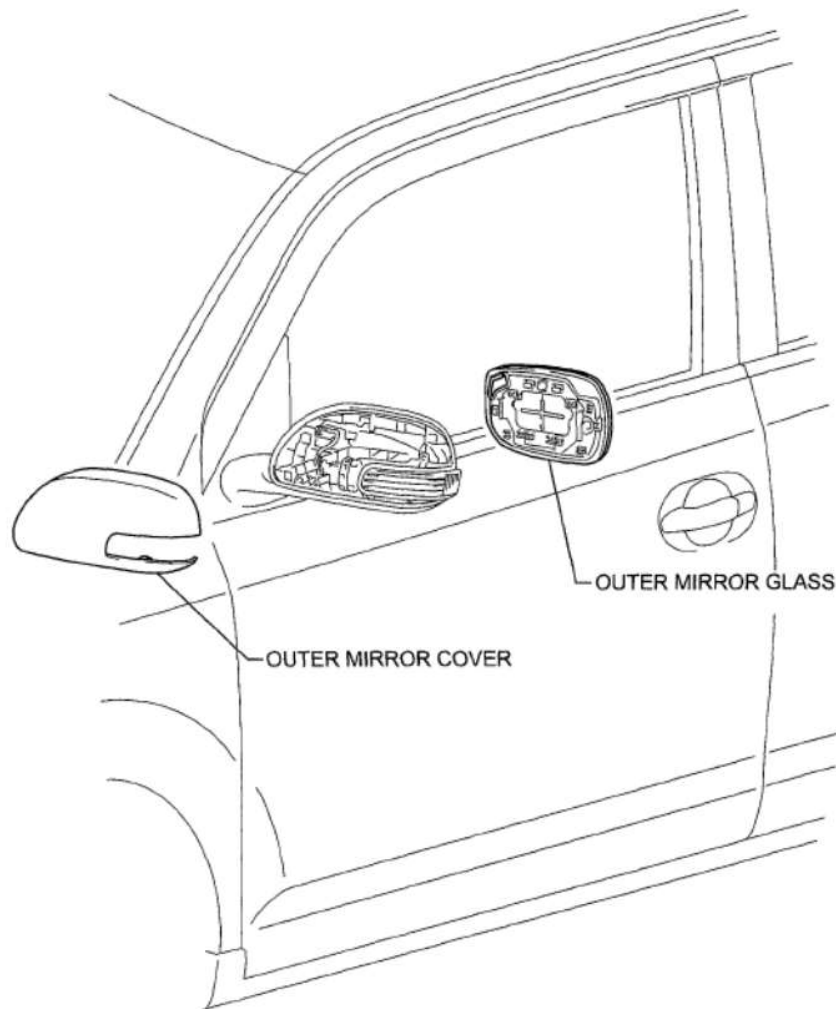


Fig. 15: Identifying Hooks On Upper Part Of Outer Mirror Glass
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Engage the 4 claws on the lower part of the outer mirror glass to the outer rear view mirror.
- c. Remove the protective tape.

OUTER MIRROR COVER

COMPONENTS

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Fig. 16: Identifying Outer Mirror Cover Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE OUTER MIRROR GLASS** (See **REMOVAL**)
2. **REMOVE OUTER MIRROR COVER**
 - a. Disengage the 7 claws and remove the outer mirror cover from the outer rear view mirror assembly.

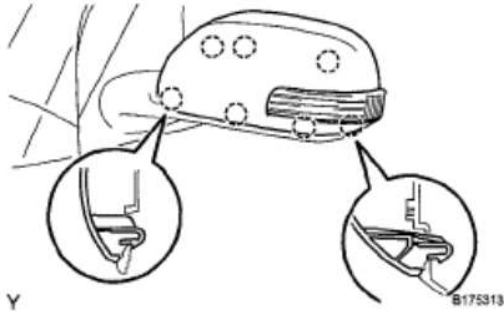
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Fig. 17: Identifying Outer Mirror Cover Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION**1. INSTALL OUTER MIRROR COVER**

- a. Engage the 7 claws to install the outer mirror cover onto the outer rear view mirror assembly.

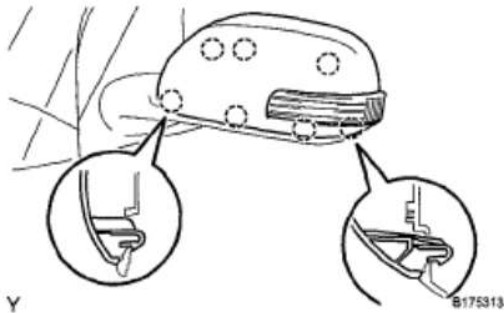
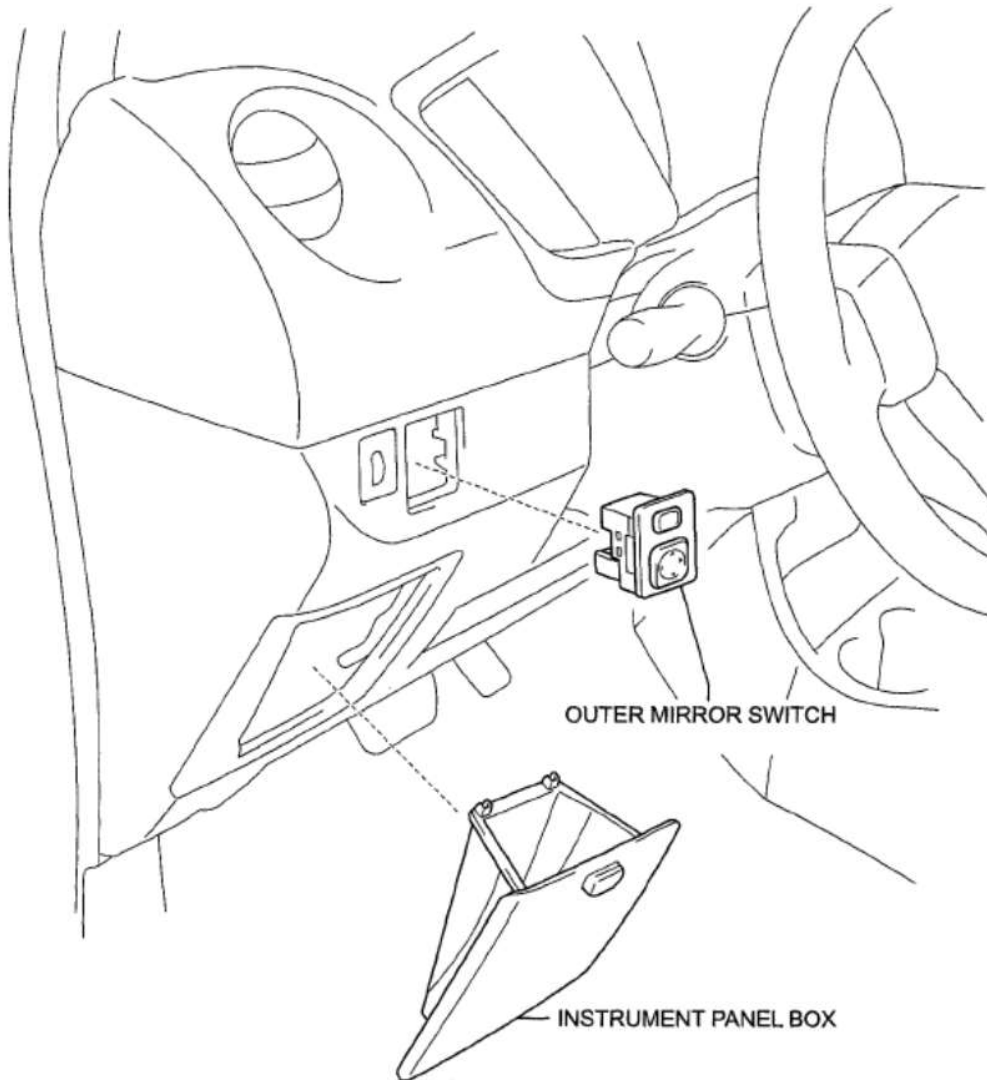


Fig. 18: Installing Outer Mirror Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL OUTER MIRROR GLASS (See INSTALLATION)

OUTER MIRROR SWITCH**COMPONENTS**

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Fig. 19: Identifying Outer Mirror Switch Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE INSTRUMENT PANEL BOX** (See **REMOVAL**)
2. **REMOVE OUTER MIRROR SWITCH**
 - a. Disconnect the connector.
 - b. Disengage the 2 claws and remove the outer mirror switch.

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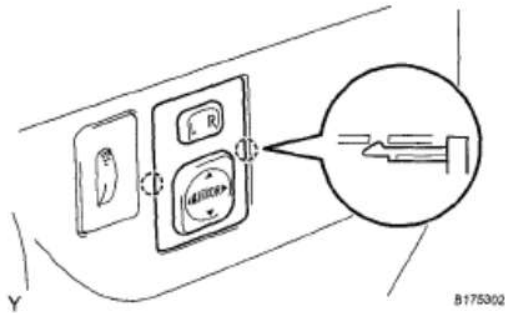


Fig. 20: Removing Outer Mirror Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. INSPECT OUTER MIRROR SWITCH

- a. The L position of the left/right adjustment switch: Measure the resistance of the outer mirror switch.

Standard resistance (for left side)

STANDARD RESISTANCE FOR LEFT SIDE

Tester Connection	Switch Condition	Specified Condition
4 (VL) - 8 (B) 6 (M+) - 7 (E)	UP	Below 1 ohms
	OFF	10 kohms or higher
4 (VL) - 7 (E) 6 (M+) - 8 (B)	DOWN	Below 1 ohms
	OFF	10 kohms or higher
5 (HL) - 8 (B) 6 (M+) - 7 (E)	LEFT	Below 1 ohms
	OFF	10 kohms or higher
5 (HL) - 7 (E) 6 (M+) - 8 (B)	RIGHT	Below 1 ohms
	OFF	10 kohms or higher

If the result is not as specified, replace the outer mirror switch.

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Component without harness connected:
(Outer Mirror Switch)

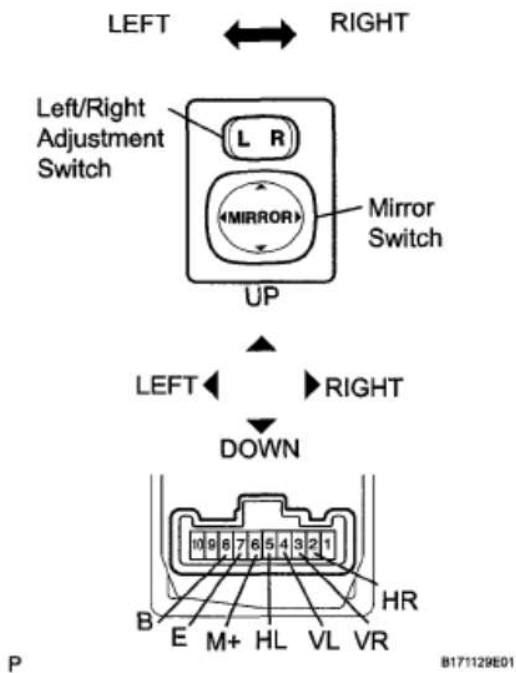


Fig. 21: Inspecting Outer Mirror Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. The R position of the left/right adjustment switch: Measure the resistance of the outer mirror switch.

Standard resistance (for right side)

STANDARD RESISTANCE FOR RIGHT SIDE

Tester Connection	Switch Condition	Specified Condition
3 (VR) - 8 (B) 6 (M+)-7(E)	UP	Below 1 ohms
	OFF	10 kohms or higher
3 (VR) - 7 (E) 6 (M+) - 8 (B)	DOWN	Below 1 ohms
	OFF	10 kohms or higher
2 (HR) - 8 (B) 6 (M+) - 7 (E)	LEFT	Below 1 ohms
	OFF	10 kohms or higher
2 (HR) - 7 (E) 6 (M+) - 8 (B)	RIGHT	Below 1 ohms
	OFF	10 kohms or higher

If the result is not as specified, replace the outer mirror switch.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Mirror - xD****INSTALLATION****1. INSTALL OUTER MIRROR SWITCH**

- a. Engage the 2 claws and install the outer mirror switch.

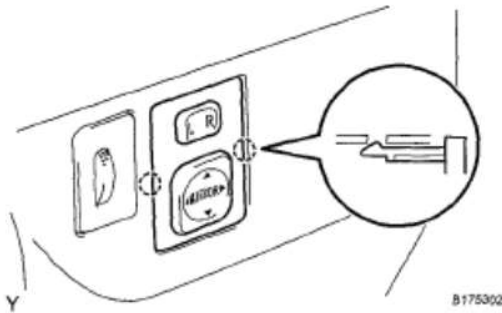


Fig. 22: Installing Outer Mirror Switch

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

- b. Connect the connector.

2. INSTALL INSTRUMENT PANEL BOX (See INSTALLATION)