

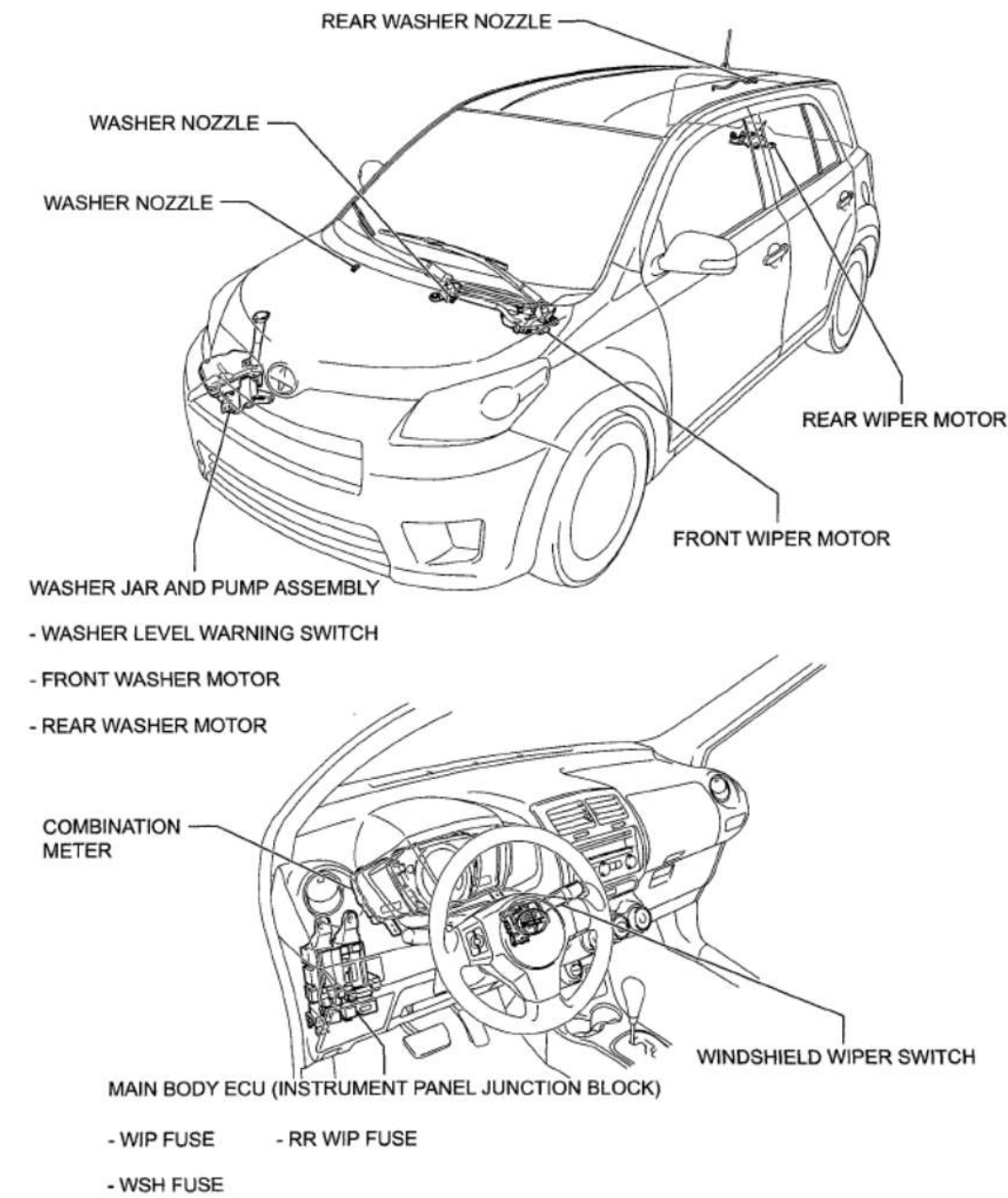
2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD****2008 ACCESSORIES AND EQUIPMENT****Wiper & Washer - xD****WIPER AND WASHER SYSTEM****PRECAUTION****1. WASHER NOZZLE ADJUSTMENT PRECAUTION**

- a. Do not clean or adjust the washer nozzle using objects such as needles or safety pins, because;
 1. The washer nozzle tip is made of resin and could be damaged.
 2. Adjustment is not necessary as the washer nozzle is a spray type.
- b. If the washer nozzle is clogged with substances such as car wax, remove it and clean the nozzle hole with a soft resin brush or similar tool.

PARTS LOCATION

2008 Scion xD

2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD



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Fig. 1: Identifying Wiper And Washer Parts Location
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SYSTEM DIAGRAM

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

Front Wiper and Washer System

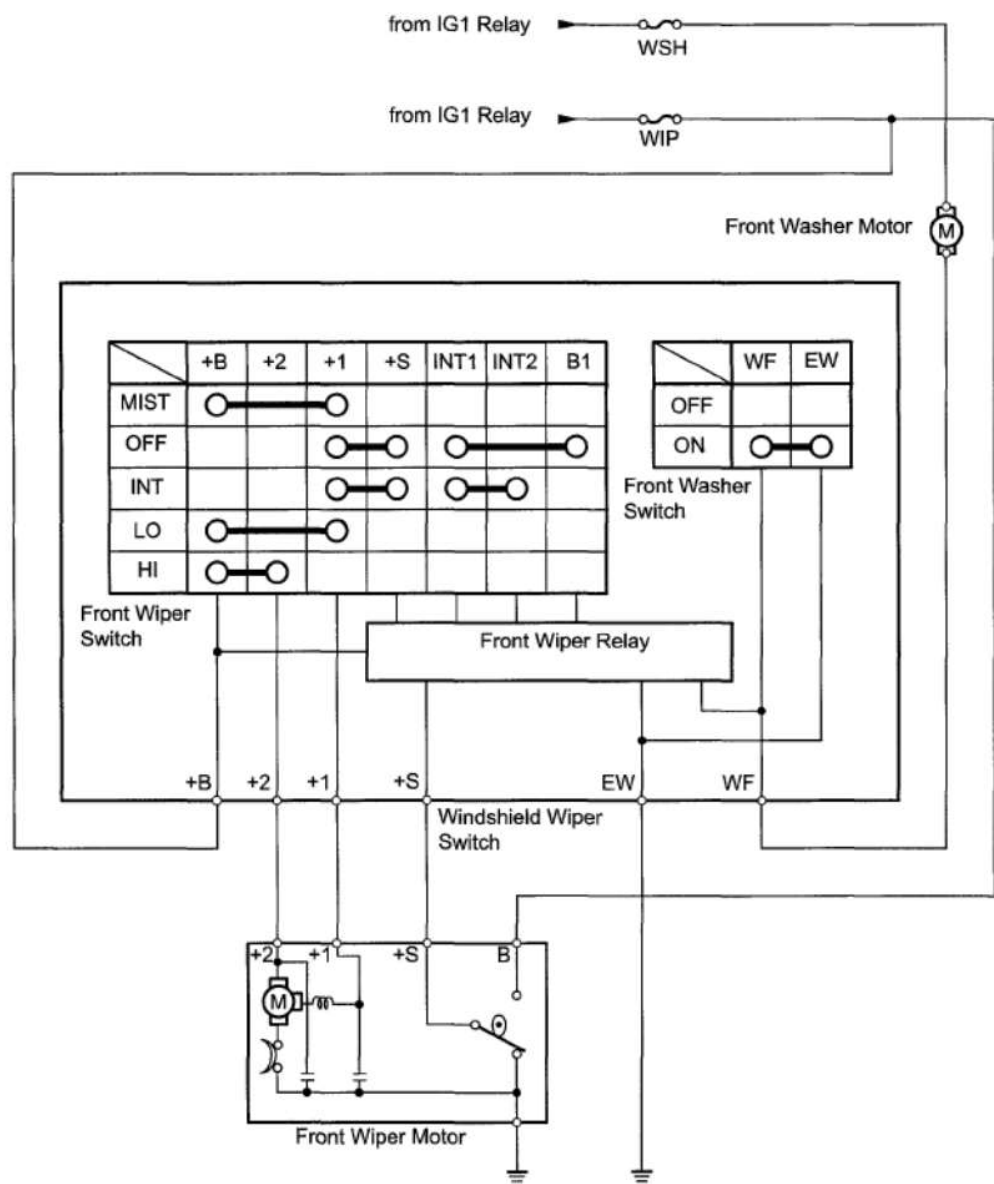
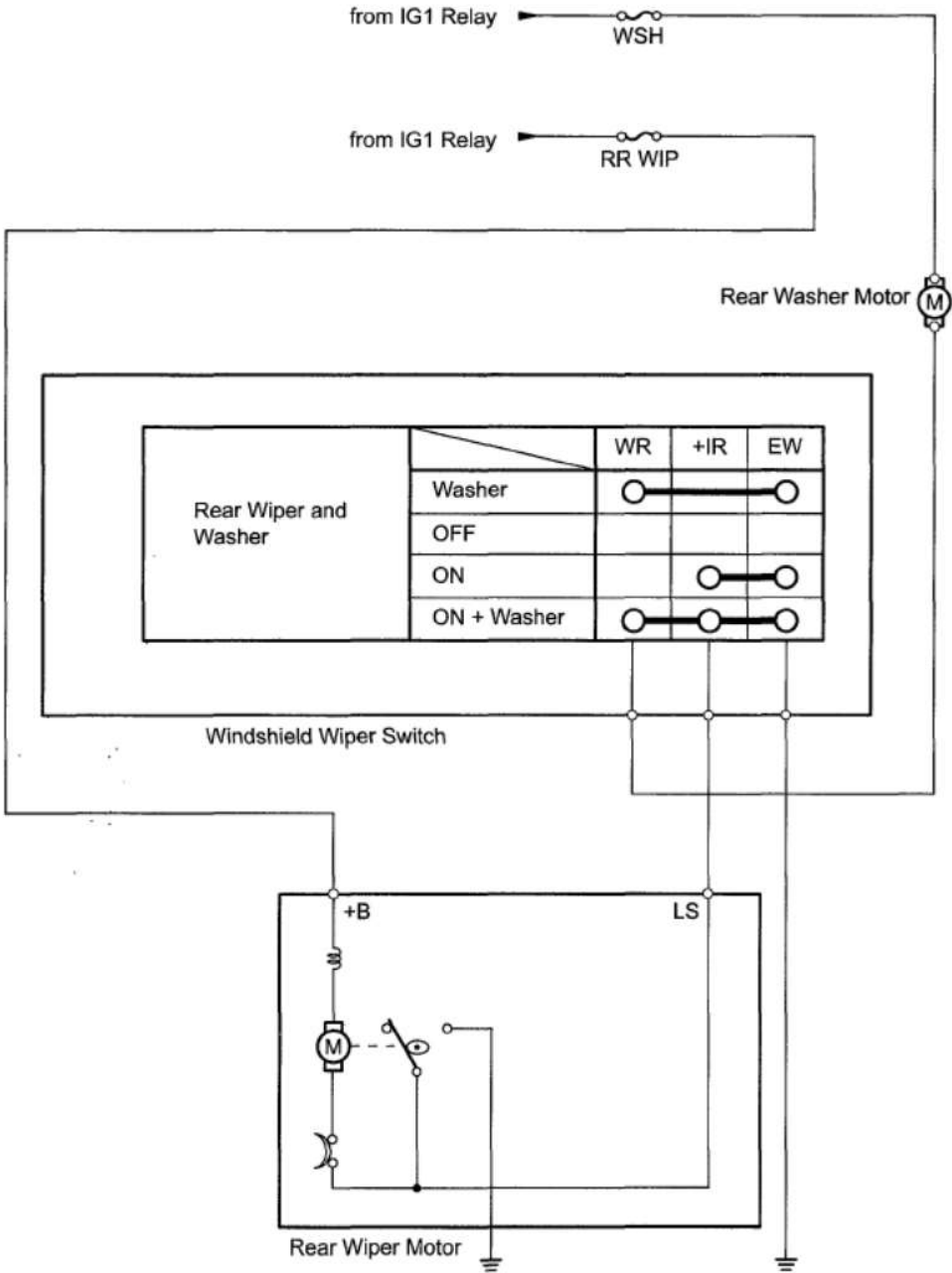


Fig. 2: Wiper And Washer System Diagram (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Rear Wiper and Washer System



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Fig. 3: Wiper And Washer System Diagram (2 Of 2)
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PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms

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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.

Front wiper and washer system**PROBLEM SYMPTOMS - FRONT WIPER AND WASHER SYSTEM**

Symptom	Suspected Area	See
Front wiper and washer system does not operate	Windshield wiper switch	<u>WIPER SWITCH</u>
	Harness or connector	-
Front wiper system does not operate in LO or HI	WIP fuse	<u>WIPER AND WASHER SYSTEM</u>
	Windshield wiper switch	<u>WIPER SWITCH</u>
	Front wiper motor	<u>FRONT WIPER MOTOR</u>
	Harness or connector	-
Front wiper system does not operate in INT	WIP fuse	<u>WIPER AND WASHER SYSTEM</u>
	Windshield wiper switch	<u>WIPER SWITCH</u>
	Front wiper motor	<u>FRONT WIPER MOTOR</u>
	Harness or connector	-
Front washer system does not operate	WSH fuse	<u>WIPER AND WASHER SYSTEM</u>
	Windshield wiper switch	<u>WIPER SWITCH</u>
	Front washer motor	<u>WASHER MOTOR</u>
	Harness or connector	-
Front wiper arms do not return to their original positions when wiper switch is turned off	Front wiper motor	<u>FRONT WIPER MOTOR</u>
	Harness or connector	-

Rear wiper and washer system**PROBLEM SYMPTOMS - REAR WIPER AND WASHER SYSTEM**

Symptom	Suspected Area	See
	Windshield wiper	

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Rear wiper and washer system does not operate	switch	<u>WIPER SWITCH</u>
	Harness or connector	-
Rear wiper system does not operate	RR WIP fuse	<u>WIPER AND WASHER SYSTEM</u>
	Windshield wiper switch	<u>WIPER SWITCH</u>
	Rear wiper motor	<u>REAR WIPER MOTOR</u>
	Harness or connector	-
Rear washer system does not operate	WSH fuse	<u>WIPER AND WASHER SYSTEM</u>
	Windshield wiper switch	<u>WIPER SWITCH</u>
	Rear washer motor	<u>WASHER MOTOR</u>
	Harness or connector	-
Rear wiper arms do not return to their original positions when wiper switch is turned off	Rear wiper motor	<u>REAR WIPER MOTOR</u>
	Harness or connector	-

Other**PROBLEM SYMPTOMS - OTHER**

Symptom	Suspected Area	See
Washer fluid level warning system does not operate	Washer fluid level warning switch	<u>WASHER FLUID LEVEL WARNING SWITCH CIRCUIT</u>
	Combination meter assembly	<u>WASHER FLUID LEVEL WARNING SWITCH CIRCUIT</u>
	Harness or connector	<u>WASHER FLUID LEVEL WARNING SWITCH CIRCUIT</u>

WASHER FLUID LEVEL WARNING SWITCH CIRCUIT**DESCRIPTION**

When the volume of washer fluid decreases below a certain level (when the washer fluid level warning switch is turned ON), the combination meter warns the driver through illumination of the master warning light.

WIRING DIAGRAM

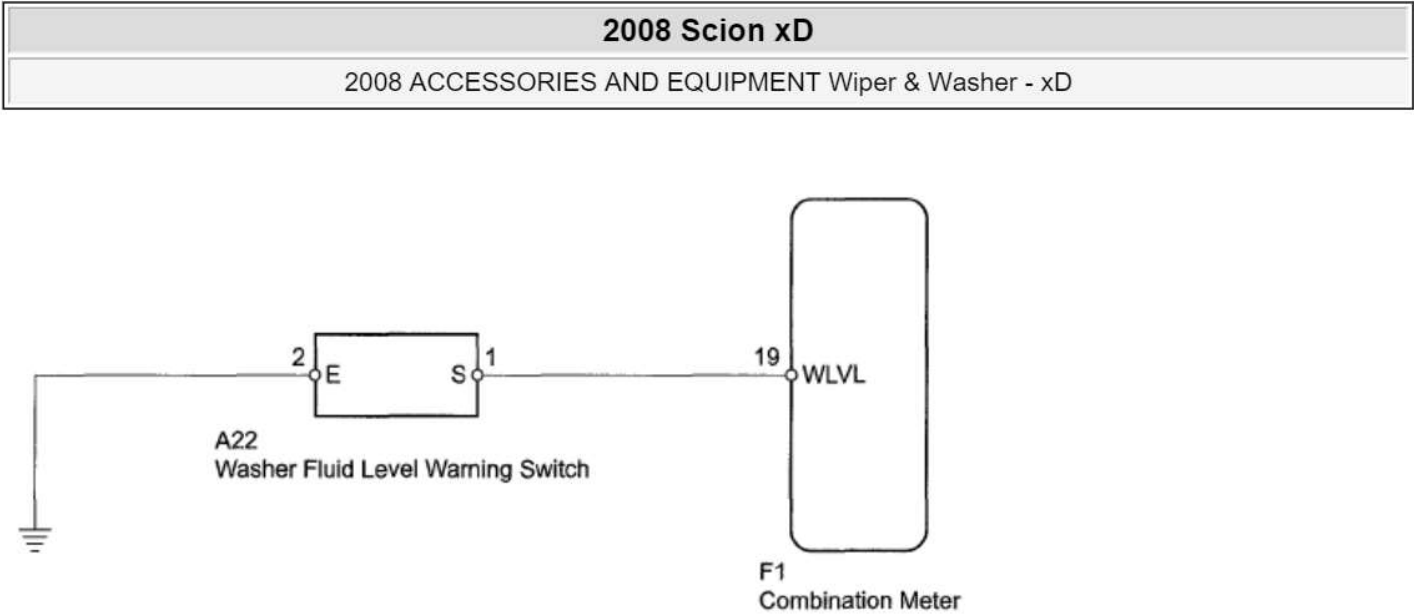


Fig. 4: Washer Fluid Level Warning Switch - Wiring Diagram
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION PROCEDURE

1. INSPECT WASHER FLUID LEVEL WARNING SWITCH
- a. Disconnect the A22 washer fluid level warning switch connector.

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

Standard resistance

STANDARD RESISTANCE SPECIFICATIONS		
Tester Connection	Condition	Specified Condition
1 (S) - 2 (E)	Washer fluid level is empty	Below 1 ohms
1 (S) - 2 (E)	Washer fluid level is full	10 kohms or higher

Component without harness connected:
(Washer Fluid Level Warning Switch)

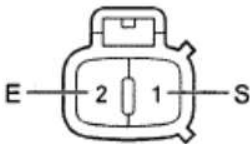


Fig. 5: Identifying Washer Fluid Level Warning Switch Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NG: REPLACE WASHER FLUID LEVEL WARNING SWITCH (See REMOVAL)

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OK: Go to Next Step.

2. CHECK HARNESS AND CONNECTOR (WASHER FLUID LEVEL WARNING SWITCH - BODY GROUND)

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

Standard resistance

STANDARD RESISTANCE SPECIFICATIONS

Tester Connection	Condition	Specified Condition
A22-2 (E) - Body Ground	Always	Below 1 ohms

NG: REPAIR OR REPLACE HARNESS OR CONNECTOR

Front view of wire harness connector:
(to Washer Fluid Level Warning Switch)



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Fig. 6: Identifying A22 Washer Fluid Level Warning Switch Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OK: Go to Next Step.

3. : CHECK HARNESS AND CONNECTOR (WASHER FLUID LEVEL WARNING SWITCH - COMBINATION METER)

- a. Disconnect the F1 combination meter connector.
- b. Measure the resistance according to the value(s) in the table below.

Standard resistance

STANDARD RESISTANCE SPECIFICATIONS

Tester Connection	Condition	Specified Condition
A22-1 (S) - F1-19 (WLVL)	Always	Below 1 ohms
A22-1 (S) or F1-19 (WLVL) - Body Ground	Always	10 kohms or higher

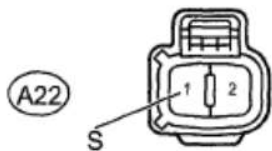
- c. Reconnect the combination meter connector.
- d. Reconnect the washer fluid level warning switch connector.

NG: REPAIR OR REPLACE HARNESS OR CONNECTOR

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Front view of wire harness connector:
(to Washer Fluid Level Warning Switch)



Front view of wire harness connector:
(to Combination Meter)

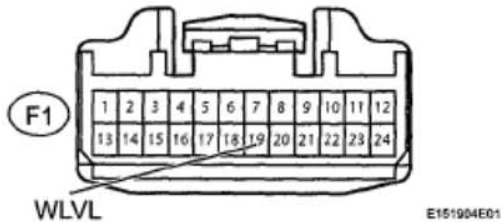


Fig. 7: Identifying F1 Combination Meter Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

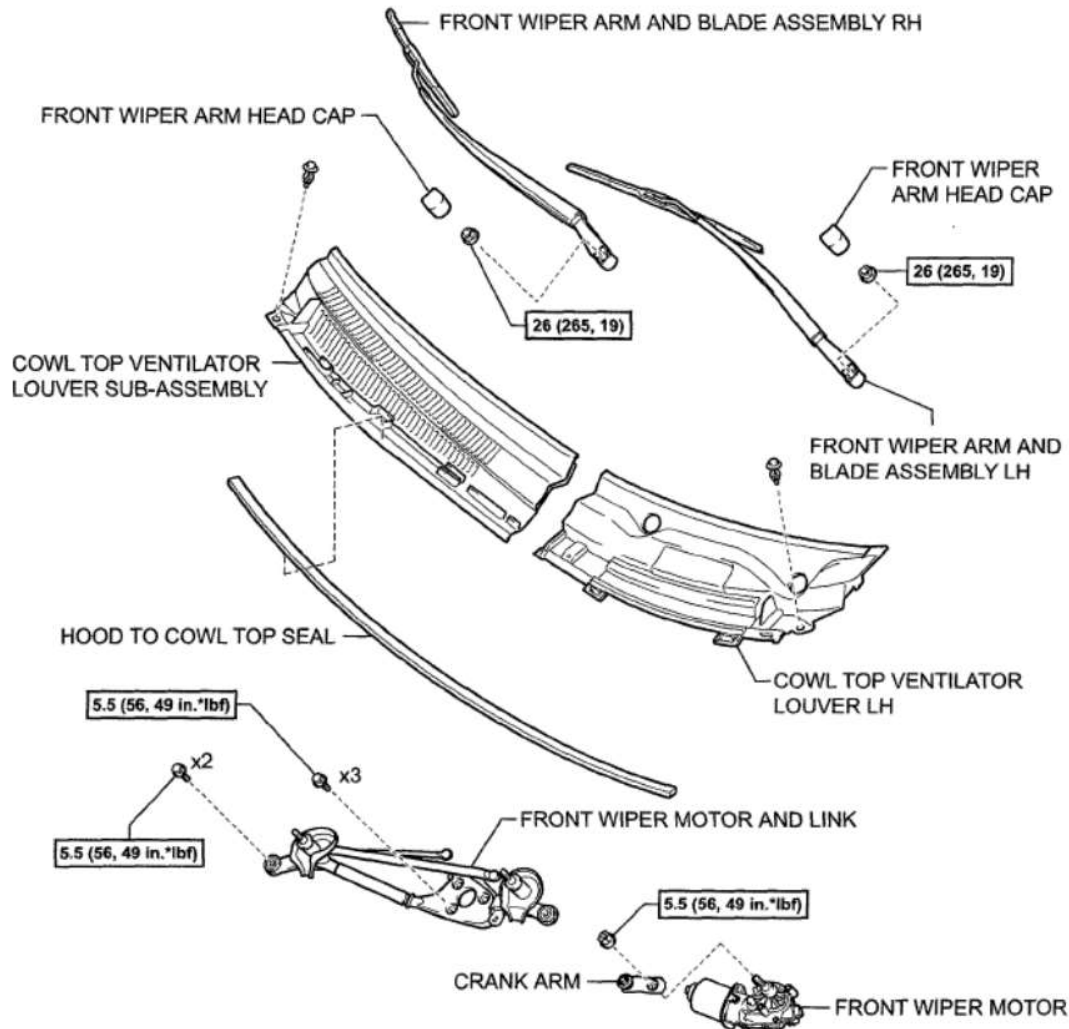
OK : REPLACE COMBINATION METER ASSEMBLY (See REMOVAL)

FRONT WIPER MOTOR

COMPONENTS

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

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Fig. 8: Identifying Front Wiper Motor Components With Torque Specifications

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

ON-VEHICLE INSPECTION

1. INSPECT FRONT WIPER MOTOR

- a. Check the automatic stop position.
 1. Operate the front wiper motor, then stop the operation.
 2. Check the automatic stop position when the front wiper motor operation has stopped.

OK: Front wiper arm stops in the position shown in the illustration.

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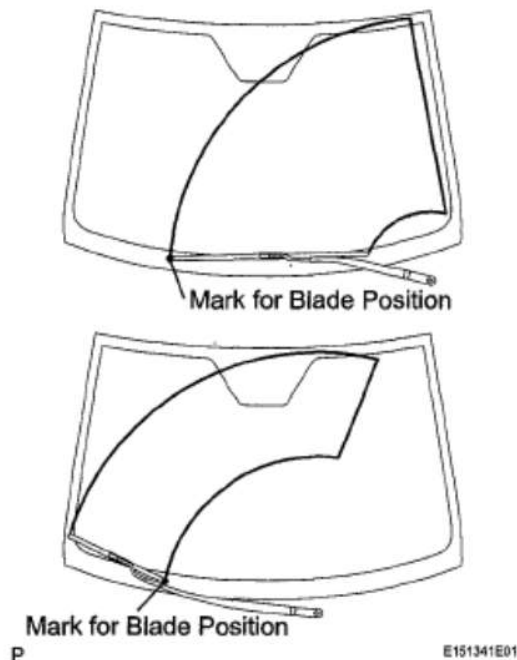


Fig. 9: Identifying Wiper Blade Operation Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. REMOVE FRONT WIPER ARM HEAD CAP

- a. Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and remove the 2 front wiper arm caps.

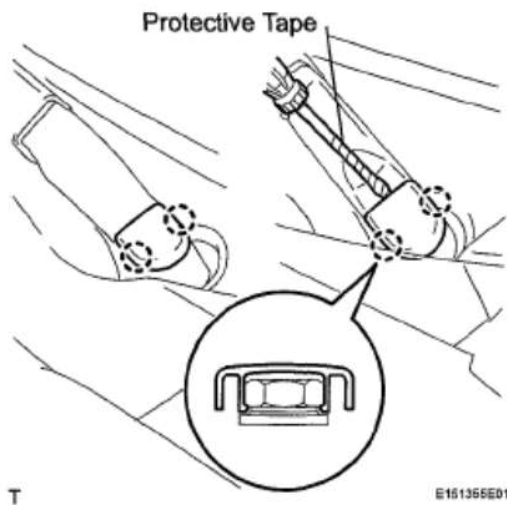


Fig. 10: Identifying Claws And Front Wiper Arm Caps
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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2. REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY LH

- Operate the wiper, then stop the wiper motor in the automatic stop position.
- Remove the nut and front wiper arm and blade assembly LH.

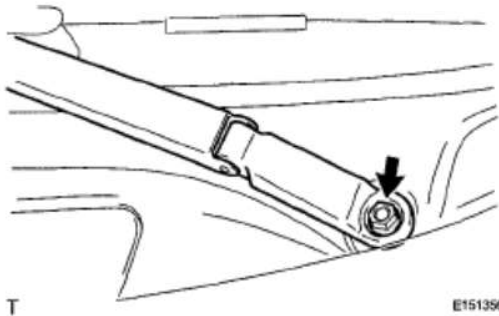


Fig. 11: Locating Nut And Front Wiper Arm
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY RH

HINT:

Use the same procedure as for the LH side.

4. REMOVE HOOD TO COWL TOP SEAL

- Disengage the 7 clips and remove the hood to cowl top seal.

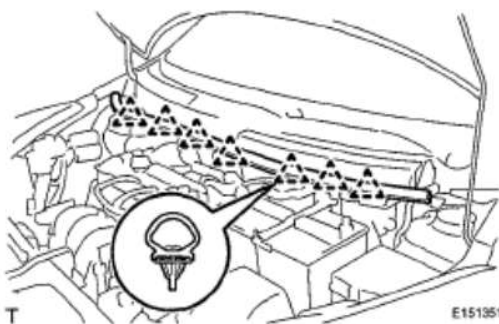


Fig. 12: Identifying Clips And Hood To Cowl Top Seal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY

- Remove the clip.
- Disengage the 4 claws and 4 guides and remove the cowl top ventilator louver RH.

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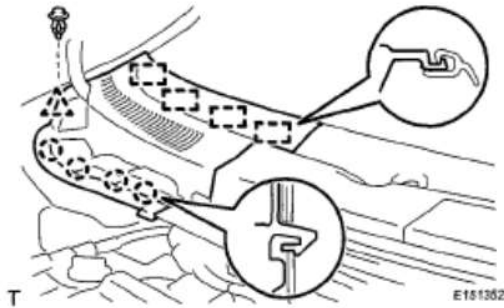


Fig. 13: Identifying Claws And Guides On Cowl Top Ventilator Louver RH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. REMOVE COWL TOP VENTILATOR LOUVER LH

- Remove the clip.
- Disengage the 5 claws and 5 guides and remove the cowl top ventilator louver LH.

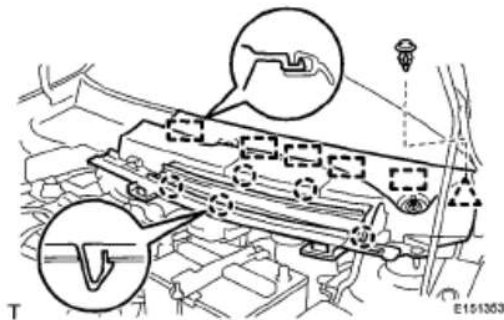


Fig. 14: Identifying Claws And Guides On Cowl Top Ventilator Louver LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. REMOVE FRONT WIPER MOTOR AND LINK

- Disengage the clamp.
- Remove the 2 bolts.

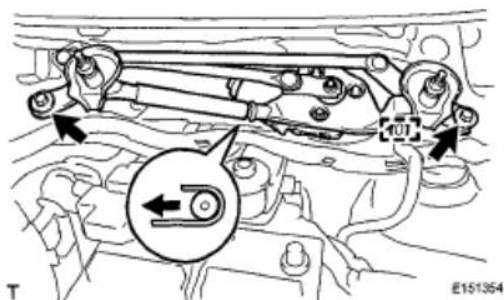


Fig. 15: Locating Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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- c. Slide the front wiper motor and link. Disengage the link from the rubber pin, then disconnect the connector and remove the front wiper motor and link

8. REMOVE FRONT WIPER MOTOR

- a. Using a screwdriver with its tip wrapped in protective tape, disconnect the rod of the wiper link assembly from the crank arm pivot of the front wiper motor as shown in the illustration.

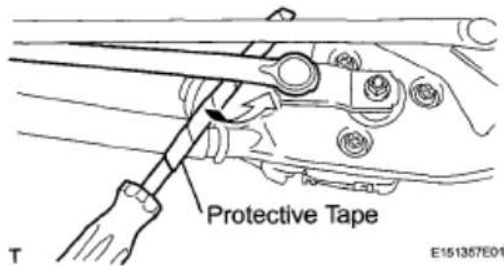


Fig. 16: Prying Rod Of Wiper Link Assembly

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

- b. Put matchmarks on the crank arm and front wiper motor, as shown in the illustration.

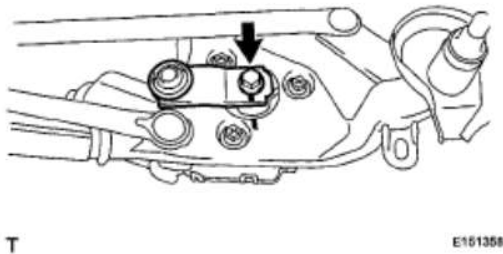


Fig. 17: Identifying Matchmarks

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

- c. Remove the nut and remove the crank arm.
- d. Remove the 3 bolts and remove the front wiper motor.

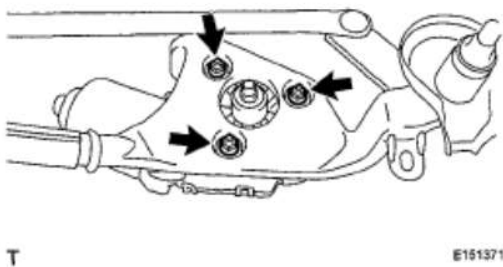


Fig. 18: Locating Front Wiper Motor Bolts

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

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INSPECTION

1. INSPECT FRONT WIPER MOTOR

a. Check the LO operation.

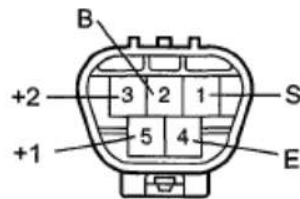
1. Connect the positive battery (+) lead to terminal 5 (+1) of the connector and the negative battery (-) lead to terminal 4 (E), then check that the motor operates at low speed (LO).

OK: Motor operates at low speed (LO).

If the result is not as specified, replace the front wiper motor.

Component without harness connected:

(Front Wiper Motor)



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Fig. 19: Identifying Front Wiper Motor Connector Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Check the HI operation.

1. Connect the positive battery (+) lead to terminal 3 (+2) of the connector and the negative battery (-) lead to terminal 4 (E), then check that the motor operates at high speed (HI).

OK: Motor operates at high speed (HI).

If the result is not as specified, replace the front wiper motor.

c. Check the automatic stop operation.

1. Connect the positive battery (+) lead to terminal 5 (+1) of the connector and the negative battery (-) lead to terminal 4 (E). With the motor operating at low speed (LO), disconnect terminal 5 (+1) to stop the wiper motor operation at any position other than the automatic stop position.
2. Using SST, connect terminals 1 (S) and 5 (+1). Connect the positive battery (+) lead to terminal 2 (B) of the connector to restart the motor operation at low speed (LO).

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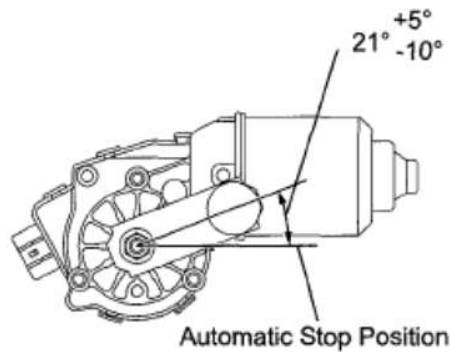
3. Check that the front wiper motor stops automatically at the automatic stop position.

HINT:

The stop position is a line parallel to the motor.

OK: Refer to the illustration.

If the result is not as specified, replace the front wiper motor.



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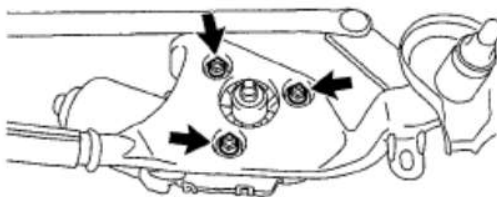
Fig. 20: Identifying Front Wiper Motor Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. INSTALL FRONT WIPER MOTOR

- a. Install the front wiper motor with the 3 bolts.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)



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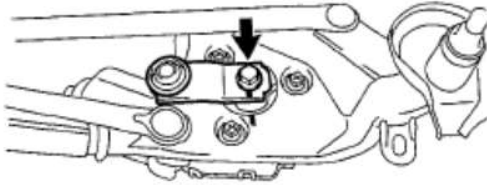
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Fig. 21: Locating Front Wiper Motor With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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- b. Align the matchmarks on the crank arm and front wiper motor



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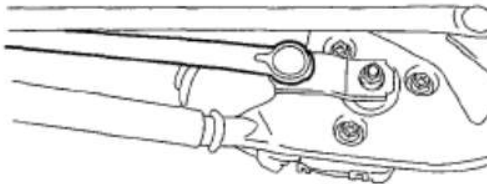
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Fig. 22: Aligning Matchmarks On Crank Arm And Front Wiper Motor
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Install the crank arm with the nut.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

- d. Apply MP grease to the sliding parts of the wiper motor and the rod of the front wiper link.
e. Connect the rod of the front wiper link to the wiper motor.



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Fig. 23: Identifying Rod Of Front Wiper Link
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL FRONT WIPER MOTOR AND LINK

- a. Connect the connector.
b. Slide the front wiper motor and link as shown in the illustration and engage the rubber pin with the body.
c. Install the front wiper motor and link with the 2 bolts.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

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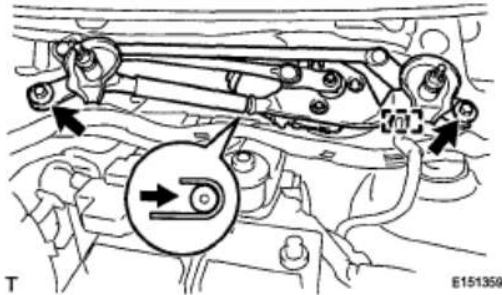


Fig. 24: Locating Front Wiper Motor And Link With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Engage the clamp.

3. INSTALL COWL TOP VENTILATOR LOUVER LH

a. Engage the 5 claws and 5 guides and install the cowl top ventilator louver LH.

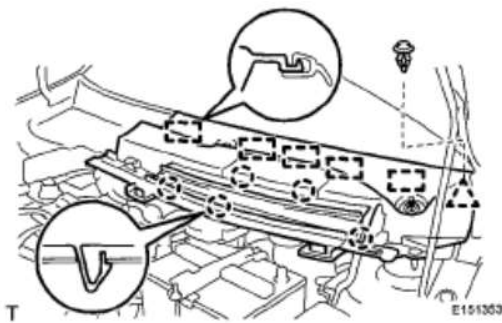


Fig. 25: Identifying Claws And Guides On Cowl Top Ventilator Louver LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Install the clip.

4. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY

a. Engage the 4 claws and 4 guides and install the cowl top ventilator louver RH.

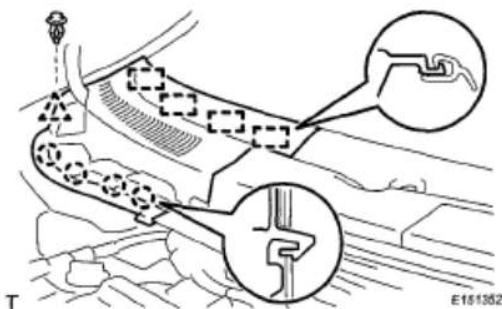


Fig. 26: Identifying Claws And Guides On Cowl Top Ventilator Louver RH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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- b. Install the clip.

5. INSTALL HOOD TO COWL TOP SEAL

- a. Engage the 7 clips and install the hood to cowl top seal.

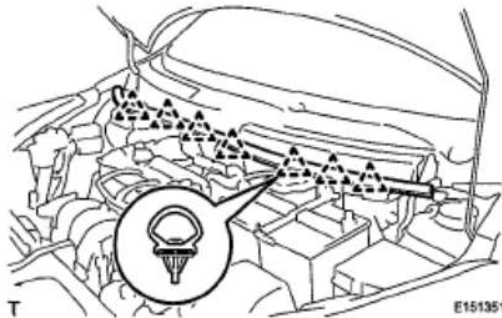


Fig. 27: Identifying Clips On Hood

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

6. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH

- a. Clean any metal powder off the serrated part of the wiper arm with a round wire brush or the equivalent (when reinstalling).
- b. Clean the wiper pivot serrations with a wire brush.

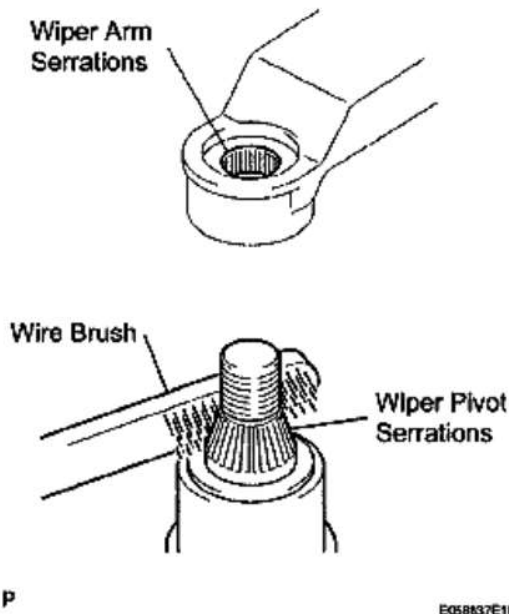


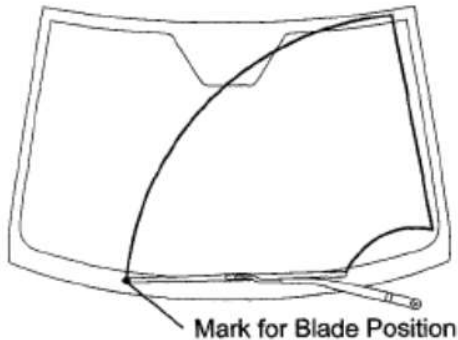
Fig. 28: Cleaning Wiper Pivot Serrations With Wire Brush

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

- c. Operate the wiper, then stop the wiper motor in the automatic stop position.
- d. Align the blade tip with the mark on the glass, as shown in the illustration.

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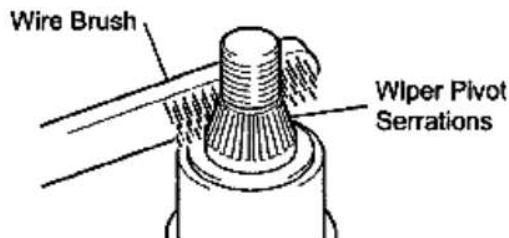
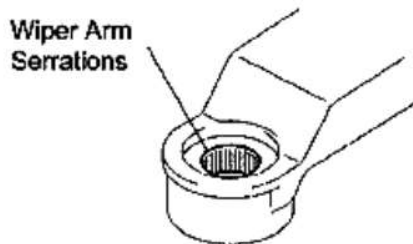
Fig. 29: Aligning Blade Tip With Mark On Glass
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- e. Tighten the nut on the front wiper arm.

Torque: 26 N*m (265 kgf*cm, 19 ft.*lbf)

7. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH

- a. Clean any metal powder off the serrated part of the wiper arm with a round wire brush or the equivalent (when reinstalling).
- b. Clean the wiper pivot serrations with a wire brush.



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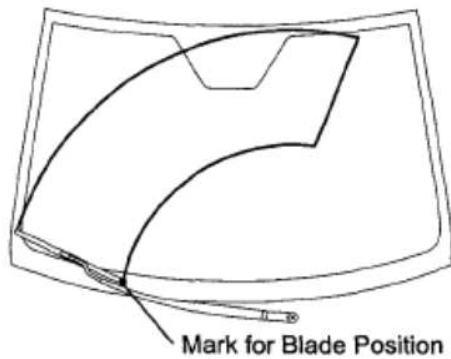
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Fig. 30: Cleaning Wiper Pivot Serrations With Wire Brush
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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- c. Operate the wiper, then stop the wiper motor in the automatic stop position.
- d. Align the blade tip with the mark on the glass, as shown in the illustration.



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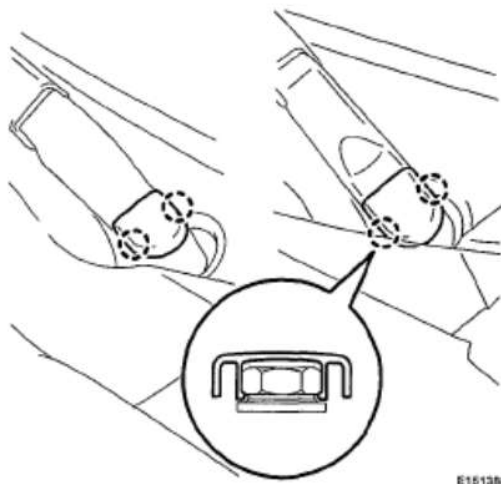
Fig. 31: Aligning Blade Tip With Mark On Glass
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- e. Tighten the nut on the front wiper arm.

Torque: 26 N*m (265 kgf*cm, 19 ft.*lbf)

8. INSTALL FRONT WIPER ARM HEAD CAP

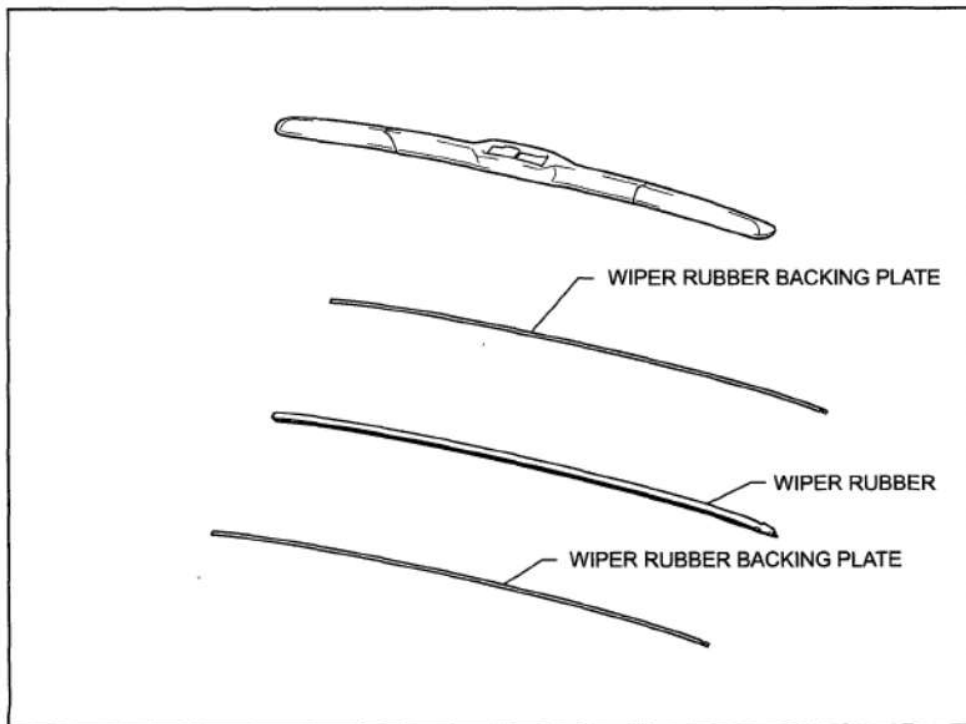
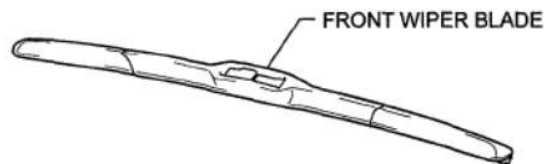
- a. Engage the 2 claws and install the 2 front wiper arm head caps.



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Fig. 32: Identifying Claws On Front Wiper Arm Head Caps
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

FRONT WIPER RUBBER

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD****COMPONENTS**

P

E146733ED2

Fig. 33: Identifying Front Wiper Rubber Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL**1. REMOVE FRONT WIPER BLADE**

- a. Disengage the front wiper blade holder.
- b. Remove the front wiper blade from the front wiper arm as shown in the illustration.

2008 Scion xD

2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

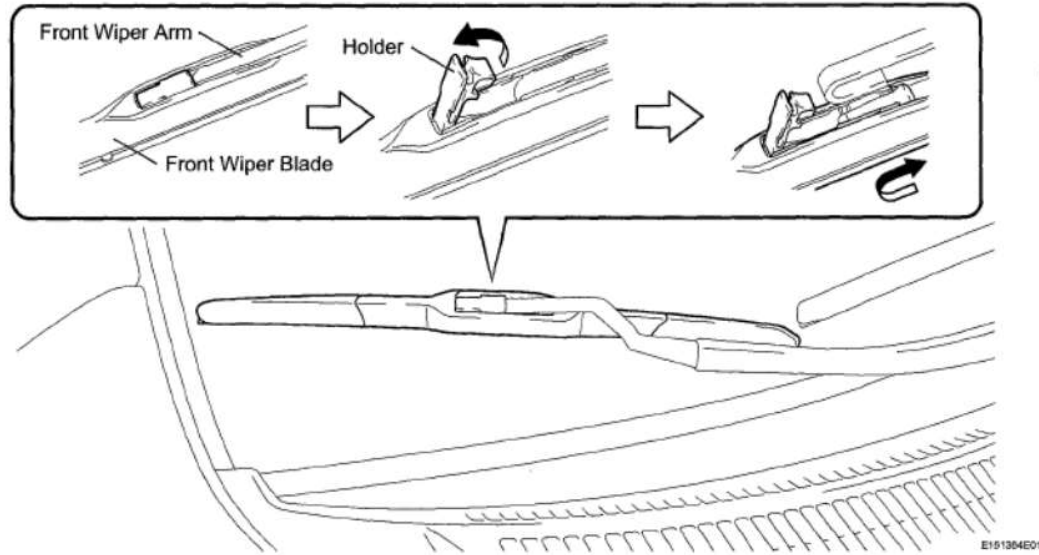


Fig. 34: Disengaging Front Wiper Blade Holder

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

NOTE: Do not bend the front wiper arm with the front wiper blade removed because the arm tip could damage the windshield surface.

2. REMOVE WIPER RUBBER

- a. Remove the wiper rubber and the wiper rubber backing plates from the front wiper blade.

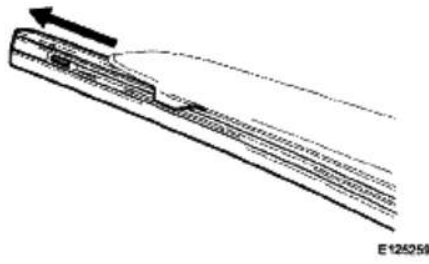


Fig. 35: Removing Wiper Rubber

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

- b. Remove the 2 wiper rubber backing plates from the wiper rubber.

2008 Scion xD

2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

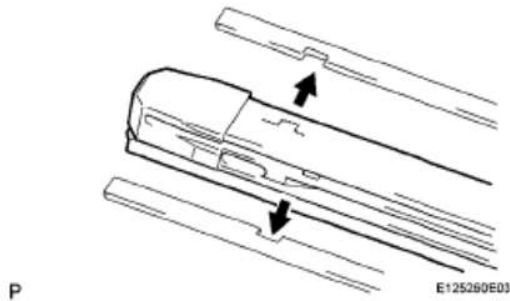


Fig. 36: Identifying Wiper Rubber Backing Plates From Wiper Rubber
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. INSTALL WIPER RUBBER

- a. Install the 2 wiper rubber backing plates onto the wiper rubber.

NOTE:

- Align the protrusions on the wiper rubber with the notches in the backing plates.
- Align the curves of the backing plates with the curve of the glass.

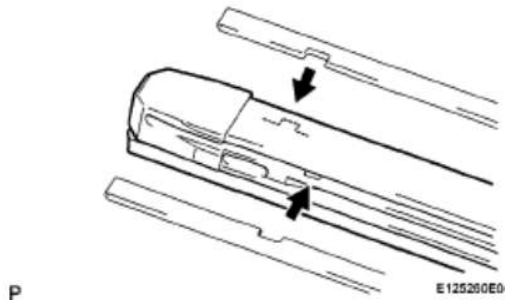


Fig. 37: Identifying Wiper Rubber Backing Plates Onto Wiper Rubber
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Install the wiper rubber onto the front wiper blade with the tip of the rubber (curved end) facing the axis of the wiper arm.

HINT:

Firmly push the wiper rubber into the wiper blade to securely engage it.

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

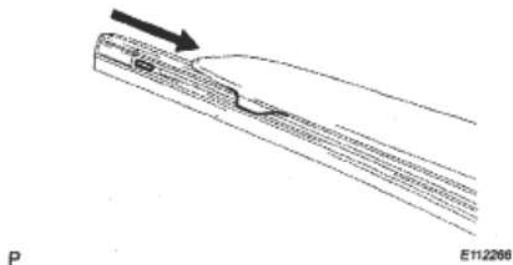


Fig. 38: Identifying Front Wiper Blade Installation Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL FRONT WIPER BLADE

- a. Install the front wiper blade as shown in the illustration.
- b. Engage the front wiper blade holder.

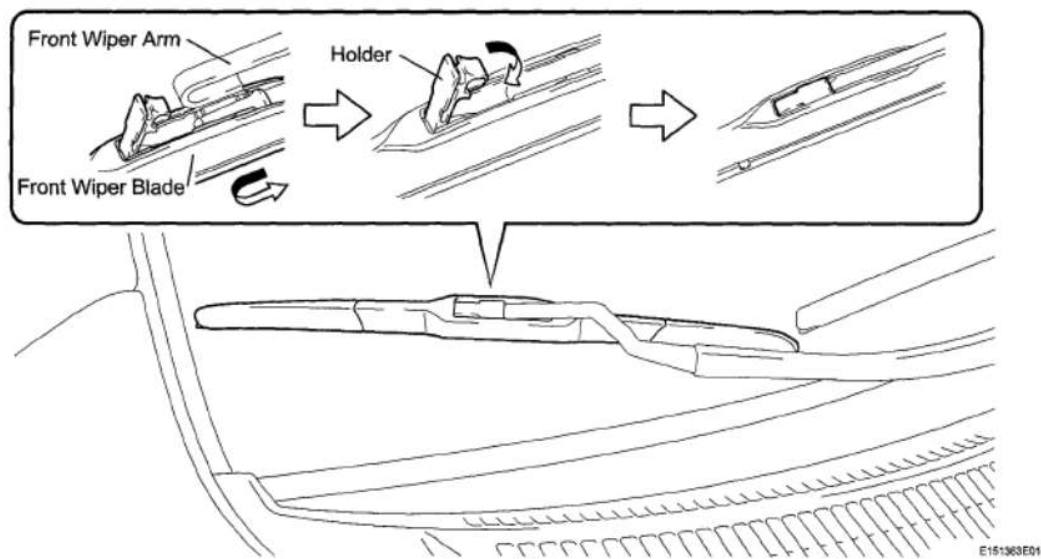


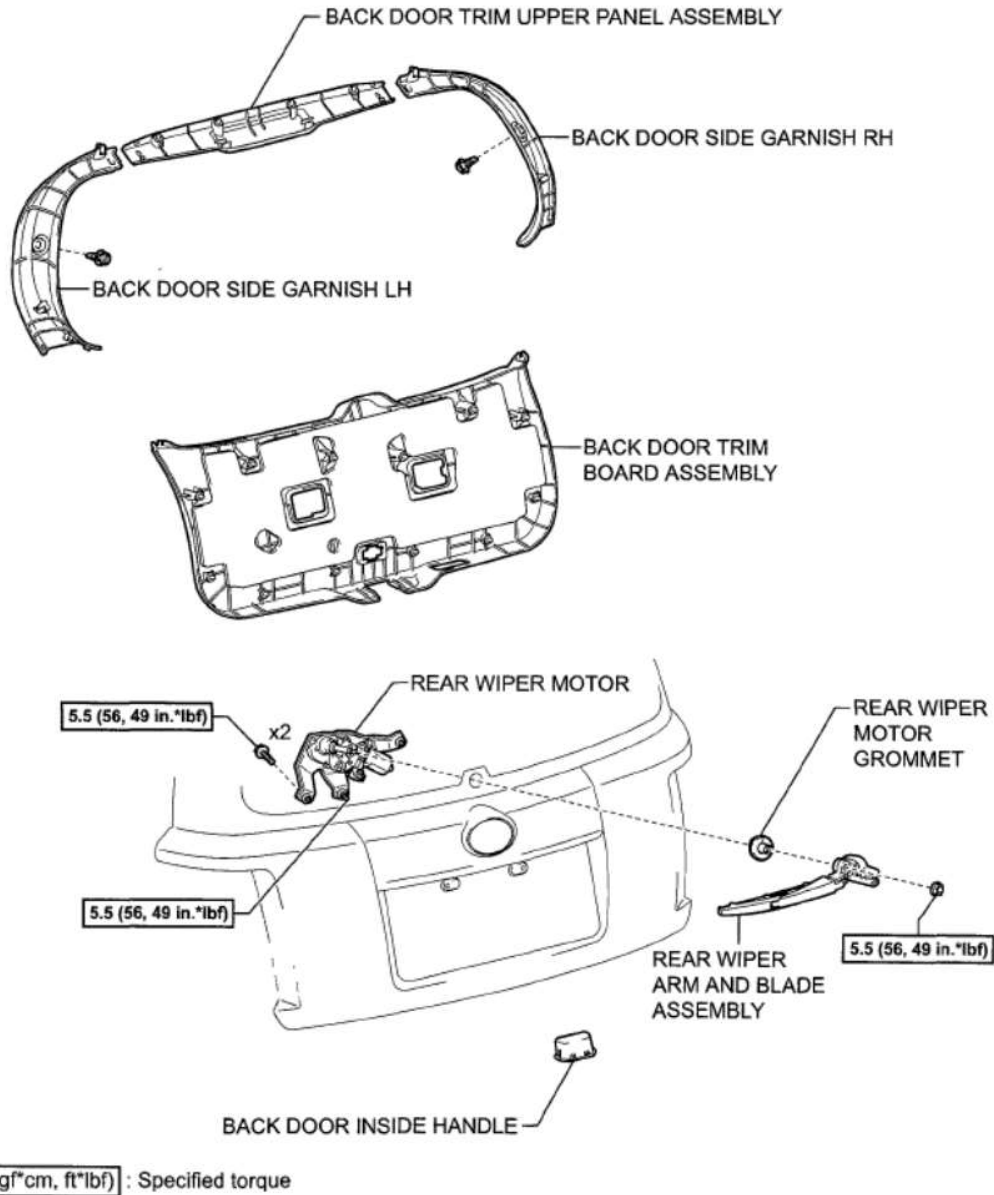
Fig. 39: Engaging Front Wiper Blade Holder
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REAR WIPER MOTOR

COMPONENTS

2008 Scion xD

2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD



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Fig. 40: Identifying Rear Wiper Motor Components With Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ON-VEHICLE INSPECTION

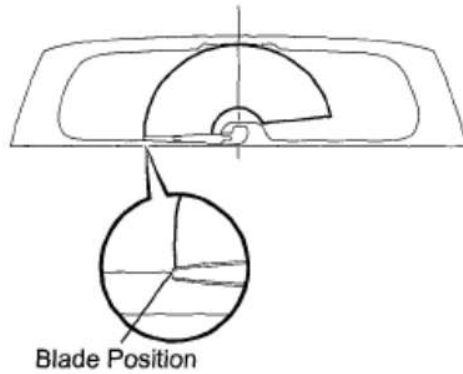
1. INSPECT REAR WIPER MOTOR

- a. Check the automatic stop position.
 1. Operate the rear wiper motor, then stop the operation.
 2. Check the automatic stop position when the rear wiper motor operation has stopped.

2008 Scion xD

2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

OK: Rear wiper arm stops in the position shown in the illustration.

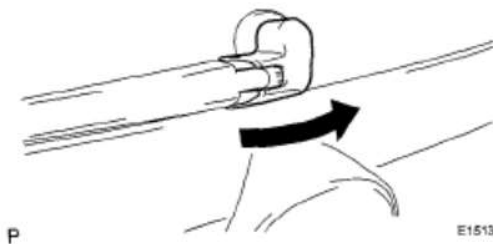


E151340E01

Fig. 41: Identifying Rear Wiper Arm Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. REMOVE BACK DOOR TRIM UPPER PANEL ASSEMBLY (See DISASSEMBLY)
2. REMOVE BACK DOOR SIDE GARNISH LH (See DISASSEMBLY)
3. REMOVE BACK DOOR SIDE GARNISH RH (See DISASSEMBLY)
4. REMOVE BACK DOOR INSIDE HANDLE (See DISASSEMBLY)
5. REMOVE BACK DOOR TRIM BOARD ASSEMBLY (See DISASSEMBLY)
6. REMOVE REAR WIPER ARM AND BLADE ASSEMBLY
 - a. Open the rear wiper arm head cap.



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Fig. 42: Identifying Rear Wiper Arm Head Cap
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the nut and rear wiper arm and blade assembly.

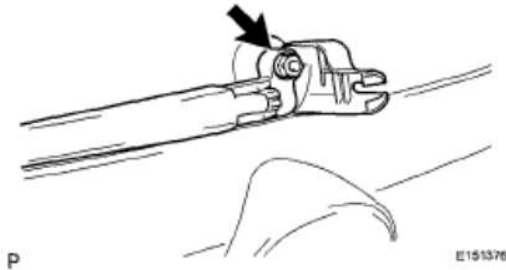
2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD**

Fig. 43: Identifying Rear Wiper Arm And Blade
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. REMOVE REAR WIPER MOTOR

- a. Disconnect the connector.
- b. Loosen bolt A.

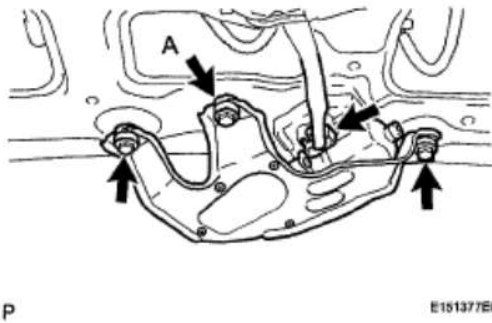


Fig. 44: Locating Rear Wiper Motor Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Remove the 2 bolts and remove the rear wiper motor.

NOTE: Do not try to remove the bolts since they are integrated with the motor.

8. REMOVE REAR WIPER MOTOR GROMMET

- a. Remove the rear wiper motor grommet.

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

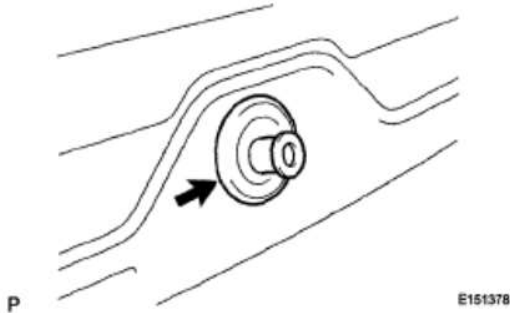


Fig. 45: Locating Rear Wiper Motor Grommet
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. INSPECT REAR WIPER MOTOR

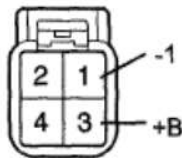
- a. Check the operation.
 1. Connect the positive battery (+) lead to terminal 3 (+B) and the negative battery (-) lead to terminal 1 (-1), and check that the rear wiper motor operates.

OK: The rear wiper motor operates.

NOTE: Check that the body ground is connected.

If the result is not as specified, replace the rear wiper motor.

Component without harness connected:
(Rear Wiper Motor)



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Fig. 46: Identifying Rear Wiper Motor Connector Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

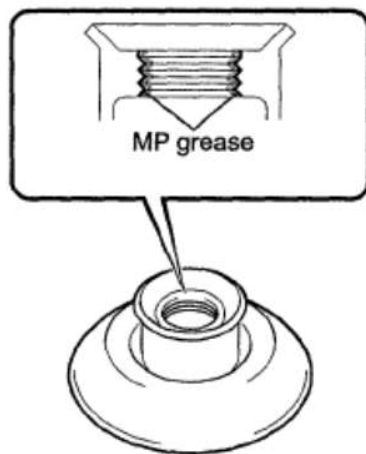
INSTALLATION

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD****1. INSTALL REAR WIPER MOTOR GROMMET**

- a. Apply MP grease to the entire surface of the wiper motor grommet lip.

HINT:

Make sure that the hole does not get clogged with grease and the grooves on the lip are filled with grease.

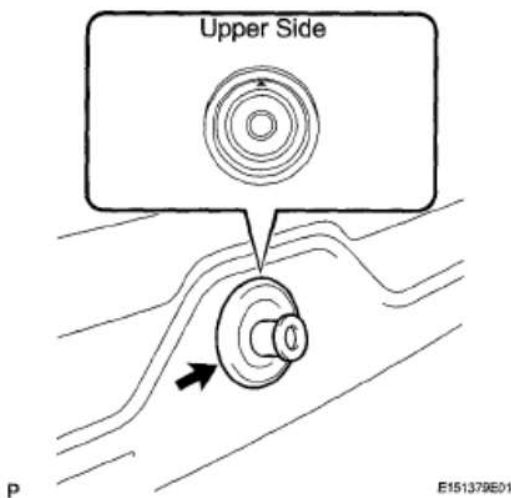


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Fig. 47: Applying MP Grease To Entire Surface Of Wiper Motor Grommet Lip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Install the rear wiper motor grommet with the mark directed up.



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Fig. 48: Locating Rear Wiper Motor Grommet
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

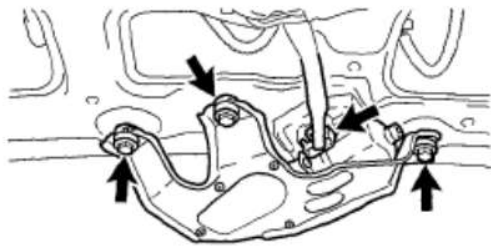
2008 Scion xD

2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

2. INSTALL REAR WIPER MOTOR

- Install the rear wiper motor with the 3 bolts.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)



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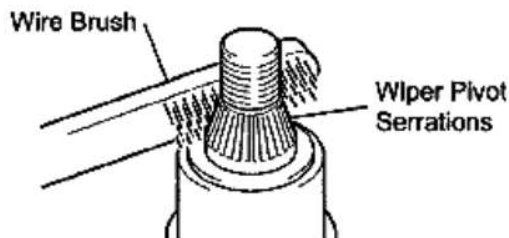
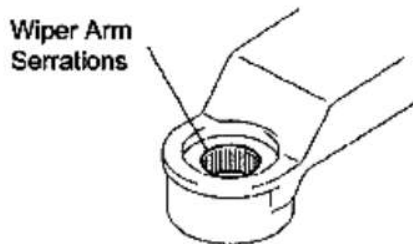
E101377

Fig. 49: Locating Rear Wiper Motor With Bolts
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Connect the connector.

3. INSTALL REAR WIPER ARM AND BLADE ASSEMBLY

- Clean any metal powder off the serrated part of the wiper arm with a round wire brush or the equivalent (when reinstalling).
- Clean the wiper pivot serrations with a wire brush.



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Fig. 50: Cleaning Wiper Pivot Serrations With Wire Brush
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD

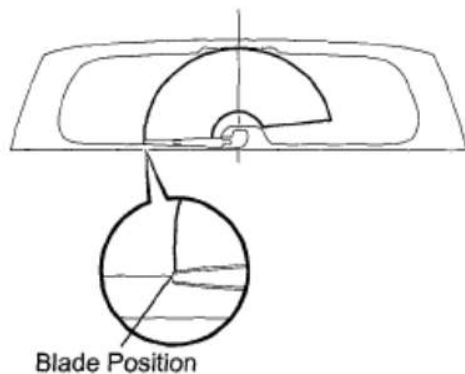
2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

- c. Operate the wiper, then stop the rear wiper motor in the automatic stop position.
- d. Install the rear wiper arm into the position shown in the illustration with the nut.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

HINT:

Hold the arm hinge down by hand while tightening the nut.

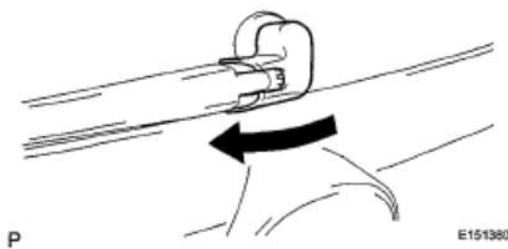


E151340E01

Fig. 51: Identifying Rear Wiper Arm Position

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

- e. Close the rear wiper arm head cap.



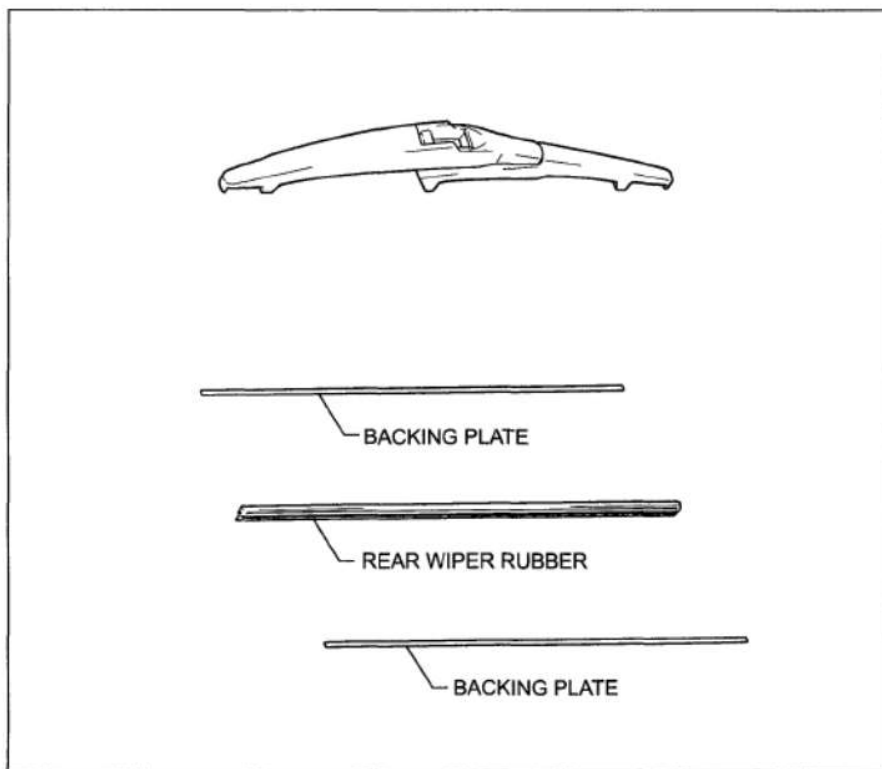
E151380

Fig. 52: Closing Rear Wiper Arm Head Cap

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

4. **INSTALL BACK DOOR TRIM BOARD ASSEMBLY** (See REASSEMBLY)
5. **INSTALL BACK DOOR INSIDE HANDLE** (See REASSEMBLY)
6. **INSTALL BACK DOOR SIDE GARNISH LH** (See REASSEMBLY)
7. **INSTALL BACK DOOR SIDE GARNISH RH** (See REASSEMBLY)
8. **INSTALL BACK DOOR TRIM UPPER PANEL ASSEMBLY** (See REASSEMBLY)

REAR WIPER RUBBER

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD****COMPONENTS**

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Fig. 53: Identifying Rear Wiper Rubber Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL**1. REMOVE REAR WIPER BLADE ASSEMBLY**

- Raise the wiper blade to the position where the claw detaches with a "click" sound, as shown in the illustration.

NOTE: Be careful not to damage the claw.

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

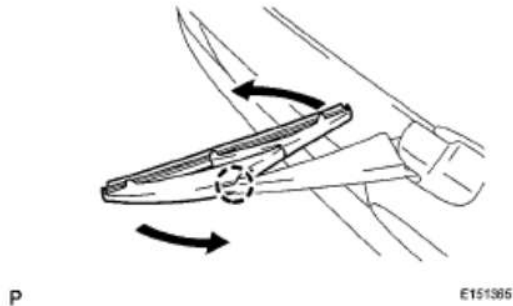


Fig. 54: Raising Wiper Blade

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

- b. Pull the wiper blade straight toward the left side of the vehicle to remove it from the wiper arm.

NOTE: Do not fold the wiper arm with the wiper blade removed. The arm tip may damage the back door glass surface.

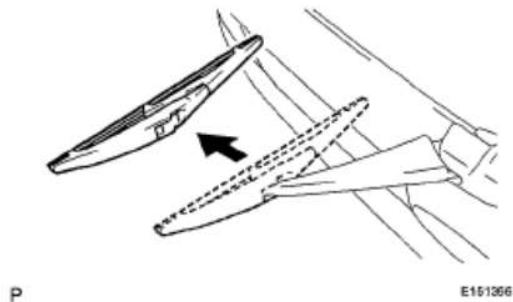


Fig. 55: Pulling Wiper Blade

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

2. REMOVE REAR WIPER RUBBER

- a. Lift and pull the end of the rear wiper rubber protruding from the blade stopper as shown in the illustration.

NOTE: Do not forcibly pull out the wiper rubber. The backing plates will be deformed or the blade claws will be damaged.

HINT:

Lightly pushing the rubber between the ends and middle will allow it to be removed more easily.

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

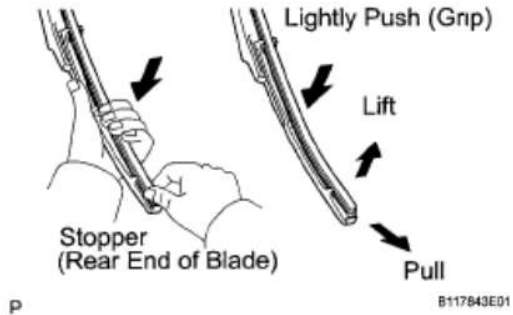


Fig. 56: Pulling Rear Wiper Rubber

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

INSTALLATION

1. INSTALL REAR WIPER RUBBER

- a. Install the 2 backing plates as shown in the illustration.

NOTE: Install the backing plates facing the correct direction.

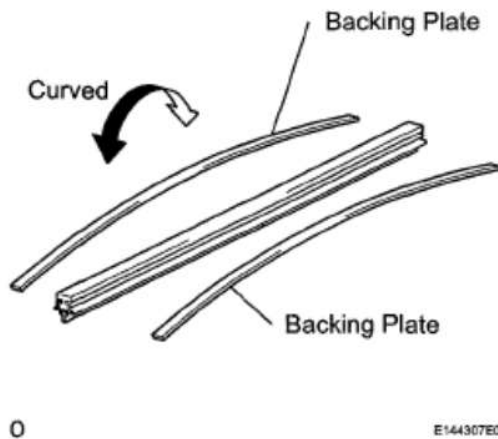


Fig. 57: Identifying Backing Plates Installation Position

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

- b. Insert the rear wiper rubber from the front end of the wiper blade to the rear end through the second claw.

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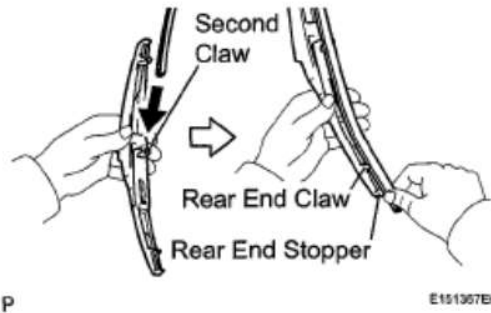


Fig. 58: Pushing Wiper Rubber

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

- c. After pushing the wiper rubber through the rear end claw, allow it to stick out from the rear end stopper.
- d. Slide the rear wiper rubber through the front end claw.

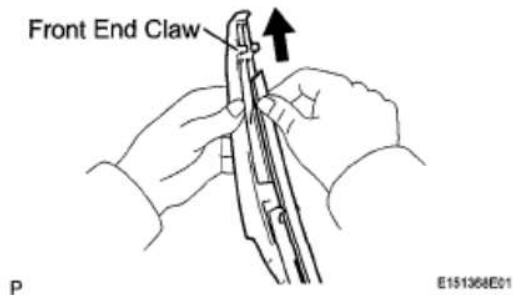


Fig. 59: Sliding Rear Wiper Rubber Through Front End Claw

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

2. INSTALL REAR WIPER BLADE ASSEMBLY

- a. Push the rear wiper blade straight toward the right side of the vehicle to install onto the wiper arm.

NOTE: Be careful not to damage the claw

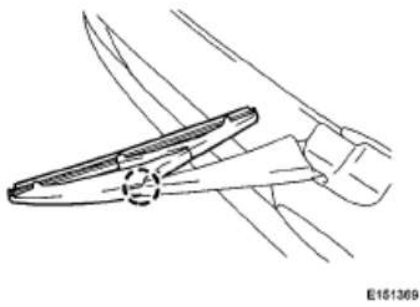
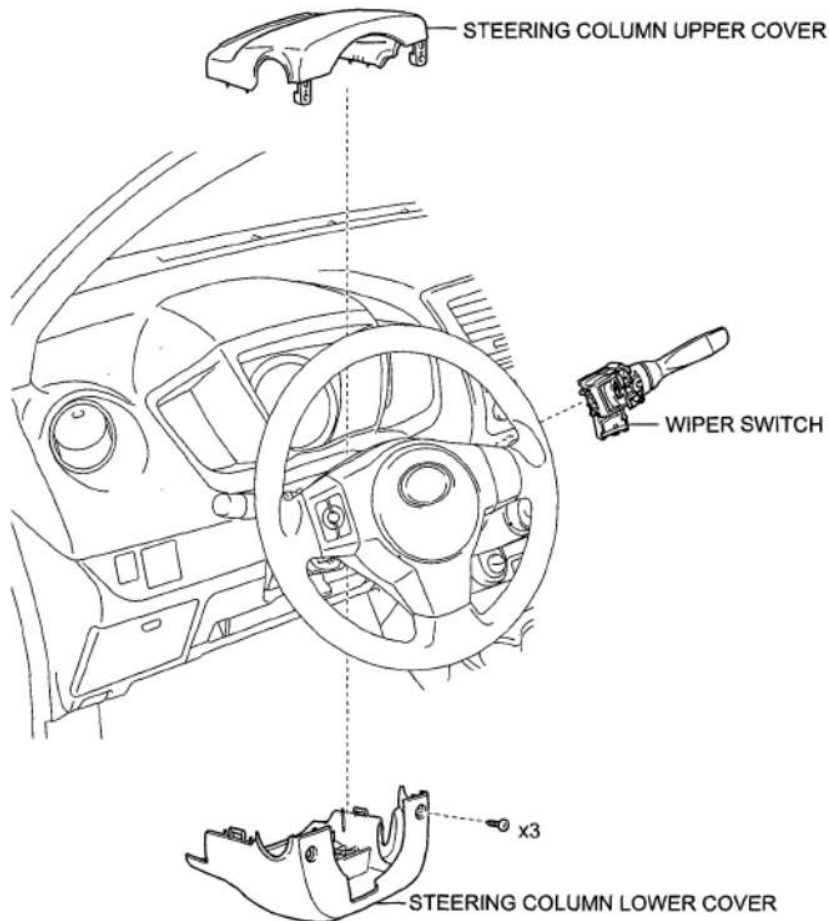


Fig. 60: Identifying Rear Wiper Blade Assembly

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

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD****WIPER SWITCH****COMPONENTS**

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Fig. 61: Identifying Wiper Switch Components

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

REMOVAL

1. **REMOVE STEERING COLUMN LOWER COVER** (See **REMOVAL**)
2. **REMOVE STEERING COLUMN UPPER COVER** (See **REMOVAL**)
3. **REMOVE WIPER SWITCH**
 - a. Disconnect the 2 connectors.

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

- b. Using a screwdriver with its tip wrapped in protective tape, disengage the claw and remove the wiper switch.

NOTE: Do not press the claw too hard, as it may be damaged.

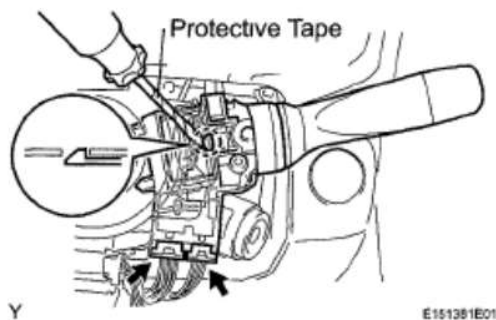


Fig. 62: Disengaging Claw

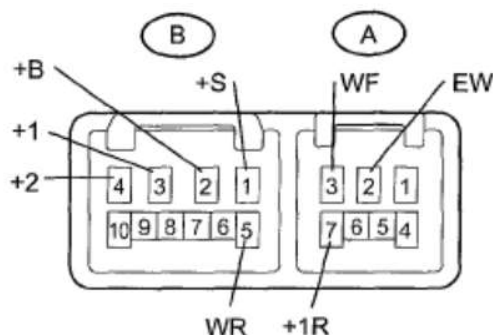
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. INSPECT WIPER SWITCH

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

Component without harness connected:
(Wiper Switch)



E14R220E03

Fig. 63: Identifying Wiper Switch Connector Terminal

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

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

Standard resistance: Front Wiper Switch

STANDARD RESISTANCE SPECIFICATIONS

Tester Connection	Switch Condition	Specified Condition
B-2 (+B) - B-3 (+1)	MIST	Below 1 ohms
B-1 (+S) - B-3 (+1)	OFF	10 kohms or higher
B-1 (+S) - B-3 (+1)	INT	Below 1 ohms
B-2 (+B) - B-3 (+1)	LO	Below 1 ohms
B-2 (+B) - B-4 (+2)	HI	Below 1 ohms

If the result is not as specified, replace the wiper switch.

Standard resistance: Front Washer Switch

STANDARD RESISTANCE SPECIFICATIONS

Tester Connection	Switch Condition	Specified Condition
A-2 (EW) - A-3 (WF)	OFF	10 kohms or higher
A-2 (EW) - A-3 (WF)	ON	Below 1 ohms

If the result is not as specified, replace the wiper switch.

Standard resistance: Rear Wiper and Washer Switch

STANDARD RESISTANCE SPECIFICATIONS

Tester Connection	Switch Condition	Specified Condition
A-2 (EW) - B-5 (WR)	Washer Switch ON Rear Wiper Switch OFF	Below 1 ohms
A-2 (EW) - B-5 (WR) A-2 (EW) - A-7 (+1R)	Washer Switch OFF Rear Wiper Switch OFF	10 kohms or higher
A-2 (EW) - A-7 (+1R)	Washer Switch ON Rear Wiper Switch ON	Below 1 ohms
A-2 (EW) - B-5 (WR) A-2 (EW) - A-7 (+1R) A-7 (+1R) - B-5 (WR)	Washer Switch ON Rear Wiper Switch ON	Below 1 ohms

If the result is not as specified, replace the wiper switch.

b. Check the intermittent operation.

1. Connect the positive (+) voltmeter terminal to terminal 3 (+1) of the B connector and the negative (-) voltmeter terminal to terminal 2 (EW) of the A connector.
2. Connect the positive (+) battery lead to terminal 2 (+B) of the B connector and the negative (-) battery lead to terminals 2 (EW) of the A connector and 1 (+S) of the B connector.
3. Turn the wiper switch to the INT position.

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

4. Connect the positive (+) battery lead to terminal 1 (+S) of the B connector for 5 seconds.
5. Connect the negative (-) battery lead to terminal 1 (+S) of the B connector. Operate the intermittent wiper relay and check the voltage between terminals 3 (+1) of the B connector and 2 (EW) of the A connector.

Standard: Refer to the illustration below.

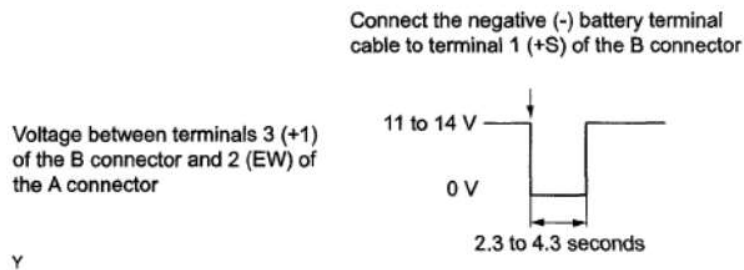


Fig. 64: Connector Terminal Blinking Pattern
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

If the result is not as specified, replace the windshield wiper switch.

- c. Check the operation (front washer).
 1. Turn the wiper switch off.
 2. Connect the positive (+) battery lead to terminal 2 (+B) of the B connector and the negative (-) battery lead to terminals 1 (+S) of the B connector and 2 (EW) of the A connector.
 3. Connect the positive (+) voltmeter terminal to terminal 3 (+1) of the B connector and the negative (-) voltmeter terminal to terminal 2 (EW) of the A connector. Turn the washer switch on and off, and check the voltage between terminals 3 (+1) of the B connector and 2 (EW) of the A connector.

Standard: Refer to the illustration below.

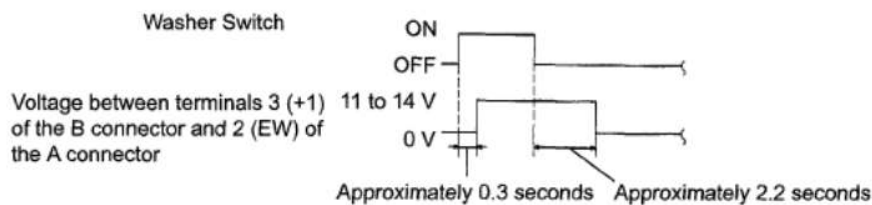


Fig. 65: Washer Switch - Blinking Pattern
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

If the result is not as specified, replace the windshield wiper switch.

INSTALLATION

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD****1. INSTALL WIPER SWITCH**

- a. Engage the claw and install the windshield wiper switch.

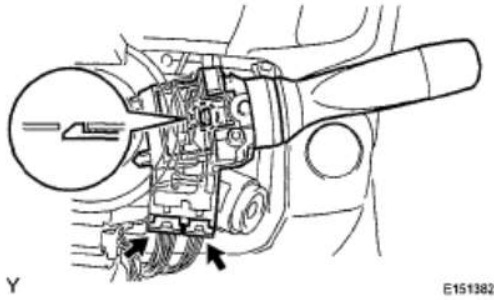


Fig. 66: Engaging Claw

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

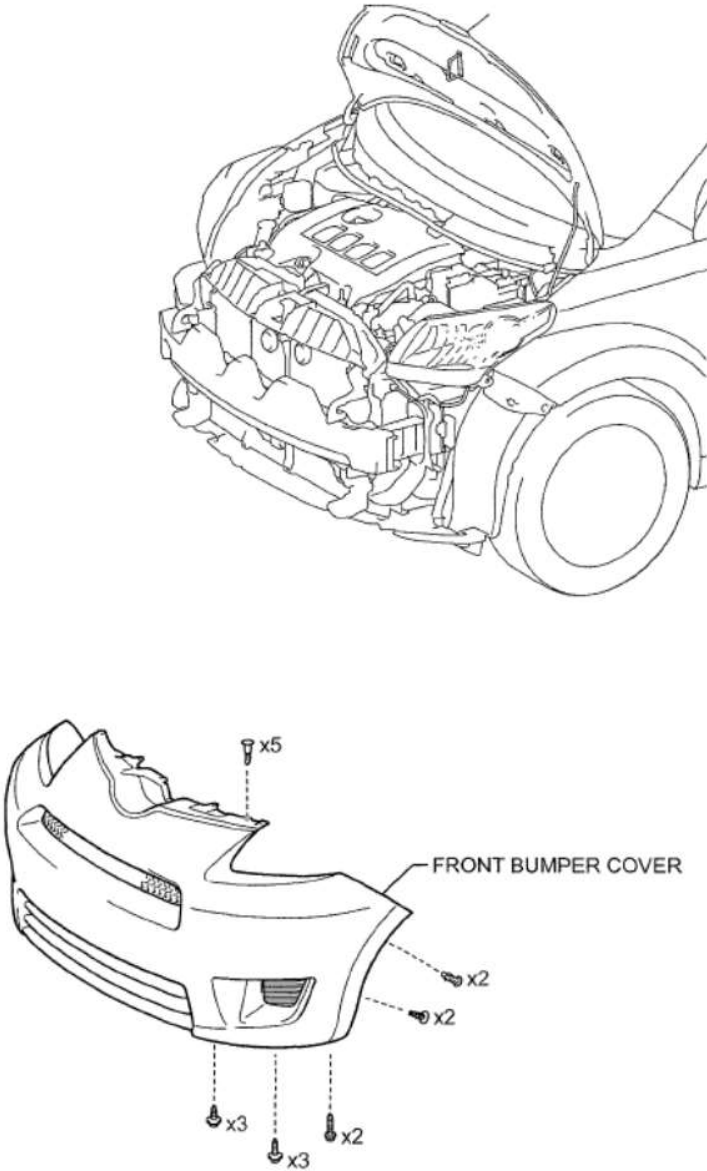
- b. Connect the 2 connectors.

2. **INSTALL STEERING COLUMN UPPER COVER** (See **INSTALLATION**)
3. **INSTALL STEERING COLUMN LOWER COVER** (See **INSTALLATION**)

WASHER MOTOR**COMPONENTS**

2008 Scion xD

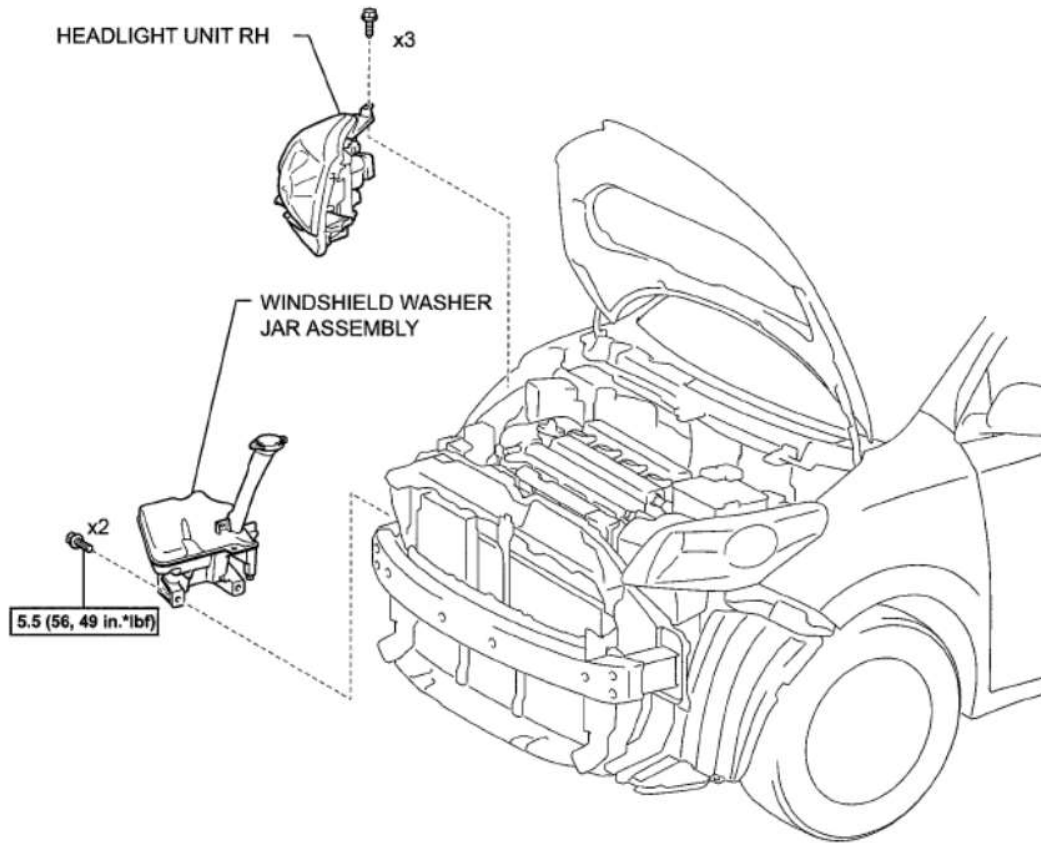
2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD



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Fig. 67: Identifying Washer Motor Components (1 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

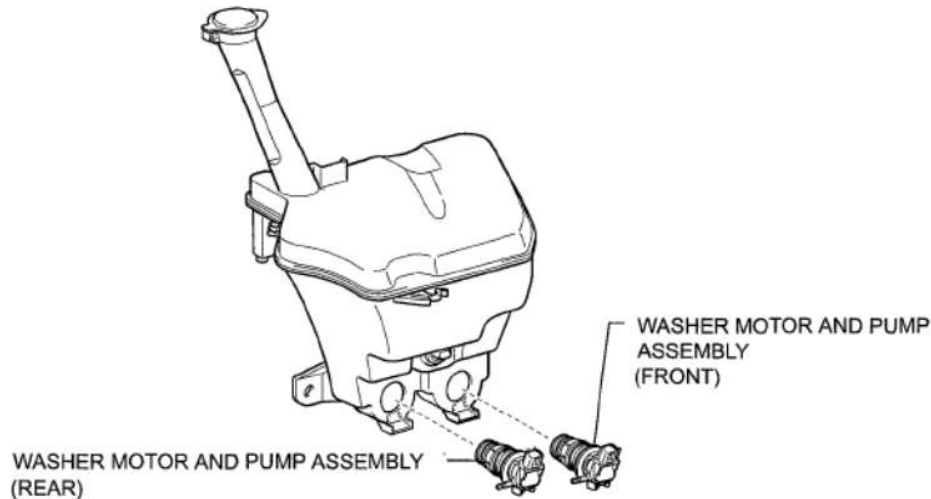
2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD**

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Fig. 68: Identifying Washer Motor Components With Torque Specification (2 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD

2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD



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Fig. 69: Identifying Washer Motor Components (3 Of 3)

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

ON-VEHICLE INSPECTION

1. INSPECT FRONT WASHER MOTOR AND PUMP ASSEMBLY

- a. Check the operation of the front washer motor and pump assembly.

1. Fill the washer jar assembly with washer fluid.

HINT:

The operation should be performed with the windshield front washer motor and pump assembly installed onto the washer jar assembly.

2. Connect the positive (+) battery lead to terminal 2 of the front washer motor and pump assembly, and the negative (-) battery lead to terminal 1. Check that washer fluid flows from the washer jar assembly.

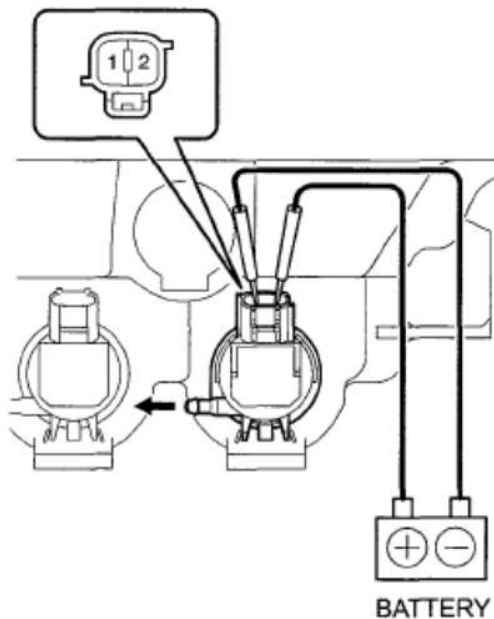
OK: Washer fluid flows from the washer jar assembly.

If the result is not as specified, replace the front washer motor and pump assembly.

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Component without harness connected:
(Front Washer Motor and Pump)



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Fig. 70: Checking Operation Of Front Washer Motor And Pump Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSPECT REAR WASHER MOTOR AND PUMP ASSEMBLY

- a. Check the operation of the rear washer motor and pump assembly.
 1. Fill the washer jar with washer fluid.

HINT:

The operation should be performed with the windshield rear washer motor and pump assembly installed on the washer jar assembly.

2. Connect the positive (+) battery lead to terminal 2 of the rear washer motor and pump assembly, and the negative (-) battery lead to terminal 1. Check that washer fluid flows from the washer jar assembly.

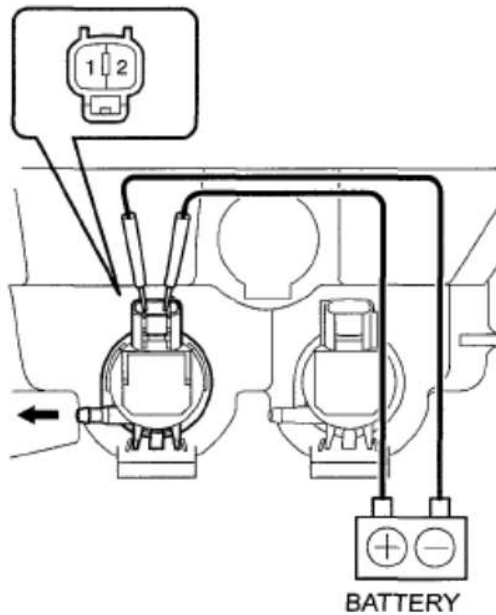
OK: Washer fluid flows from the washer jar assembly.

If the result is not as specified, replace the windshield washer motor and pump assembly.

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

Component without harness connected:
(Rear Washer Motor and Pump)



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Fig. 71: Checking Operation Of Rear Washer Motor And Pump Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE FRONT BUMPER COVER** (See REMOVAL)
2. **REMOVE HEADLIGHT UNIT RH** (See REMOVAL)
3. **DRAIN WASHER FLUID**
 - a. Disconnect the 2 washer hoses from the washer motor and pump assembly, and drain the washer fluid.
4. **REMOVE WINDSHIELD WASHER JAR ASSEMBLY**
 - a. Disconnect the 3 connectors.
 - b. Disconnect the 2 harness clamps.
 - c. Remove the 2 bolts.

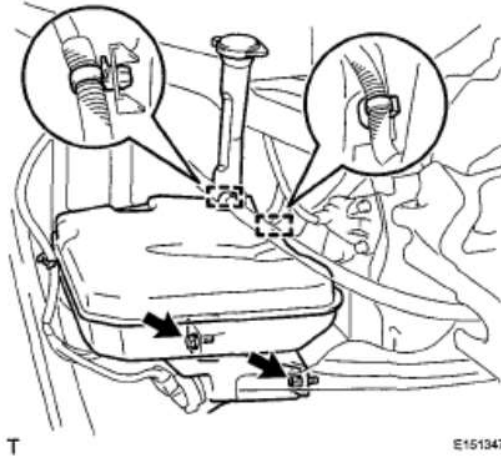
2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD**

Fig. 72: Identifying Harness Clamps And Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Remove the windshield washer jar assembly.
5. **REMOVE WASHER MOTOR AND PUMP ASSEMBLY**
 - a. Pull the washer motor and pump assembly out of the packing of the washer jar assembly.

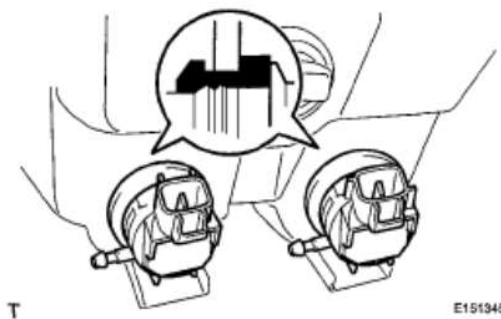


Fig. 73: Identifying Washer Motor And Pump Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL WASHER MOTOR AND PUMP ASSEMBLY**
 - a. Install the windshield washer motor and pump assembly onto the packing of the washer jar assembly.

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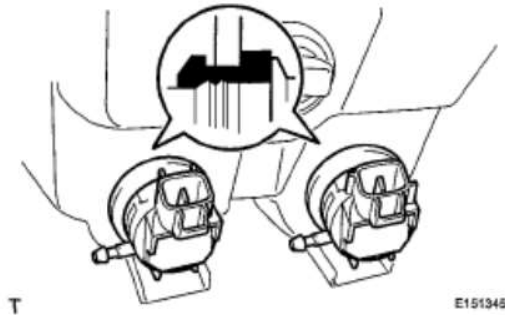


Fig. 74: Identifying Washer Motor And Pump Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL WINDSHIELD WASHER JAR ASSEMBLY

- a. Install the 2 bolts.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

- b. Connect the 2 harness clamps.

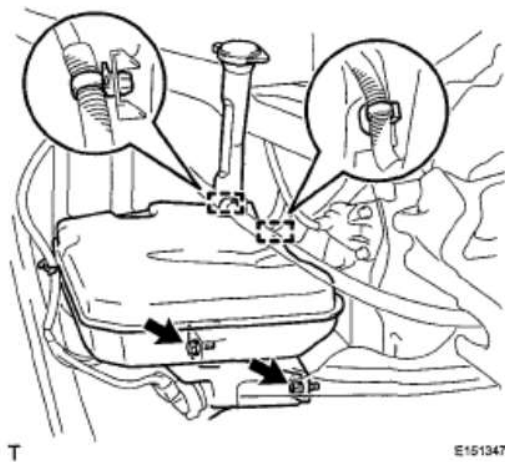


Fig. 75: Identifying Harness Clamps And Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Connect the 3 connectors.

3. FILL UP WASHER JAR WITH WASHER FLUID

- a. Connect the washer hose to the washer motor and pump assembly, and fill the washer jar assembly with washer fluid.

4. INSTALL HEADLIGHT UNIT RH (See INSTALLATION)

5. INSTALL FRONT BUMPER COVER (See INSTALLATION)

WASHER NOZZLE

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

ON-VEHICLE INSPECTION

1. INSPECT WASHER NOZZLE

- a. Start the engine.
- b. Check where the washer fluid hits the windshield.

Standard: Washer fluid hits the windshield in the areas shown in the illustration.

- 1. Front

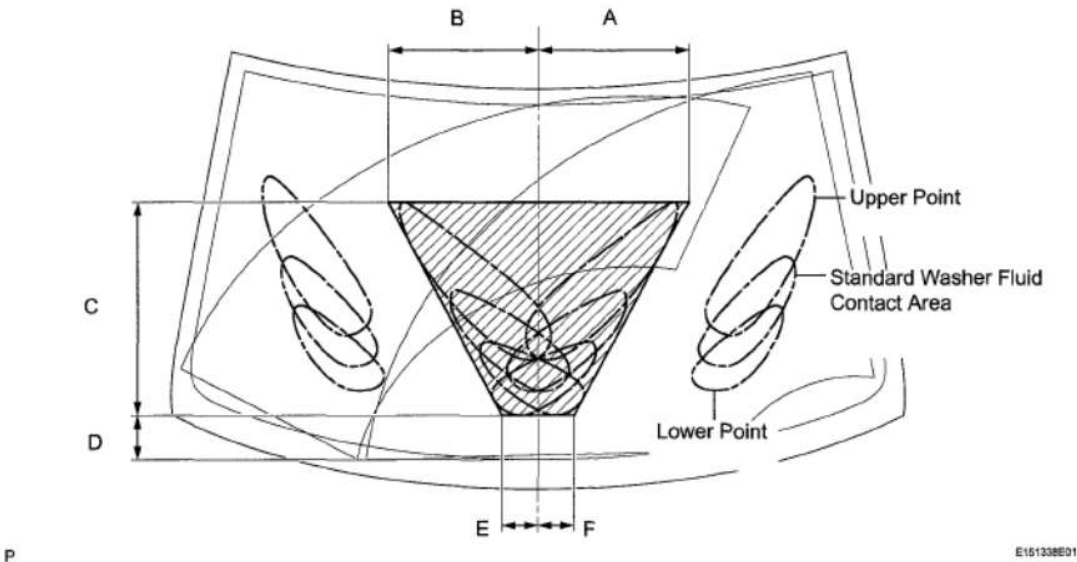


Fig. 76: Identifying Front Washer Nozzle Specified Area
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Specification

FRONT WASHER NOZZLE SPECIFICATIONS

Area	Measurement
A	114 mm
B	114 mm
C	147 mm
D	146 mm
E	33 mm
F	33 mm

- 2. Rear:

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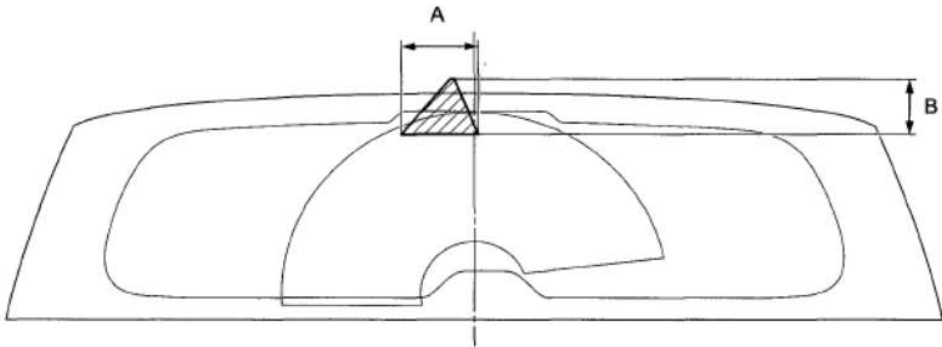


Fig. 77: Identifying Rear Washer Nozzle Specified Area
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Specification

REAR WASHER NOZZLE SPECIFICATIONS

Area	Measurement
A	69 mm
B	52 mm

ADJUSTMENT

1. REMOVE WASHER NOZZLE

- a. Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and separate the washer nozzle as shown in the illustration.

NOTE: Be careful not to damage the windshield.



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Fig. 78: Disengaging Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disconnect the washer nozzle from the washer hose.

NOTE: Washer nozzles cannot be reused.

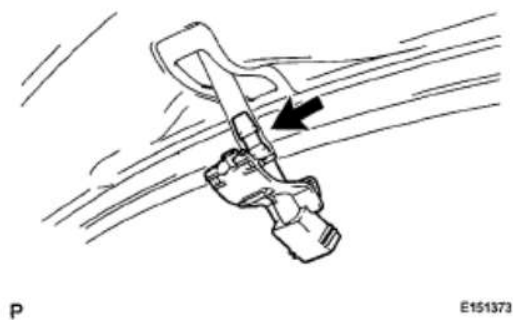


Fig. 79: Locating Washer Hose
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. ADJUST WASHER NOZZLE

- a. Select a washer nozzle so that the washer fluid spray area is as specified.

Available Washer Nozzles:

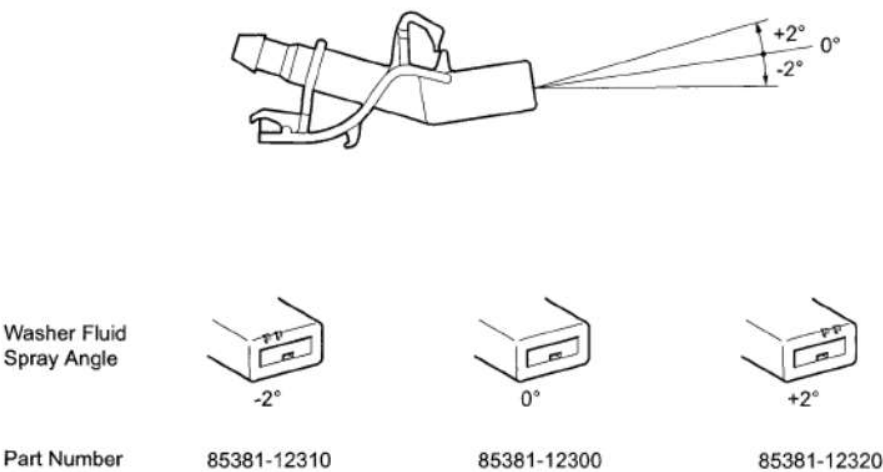
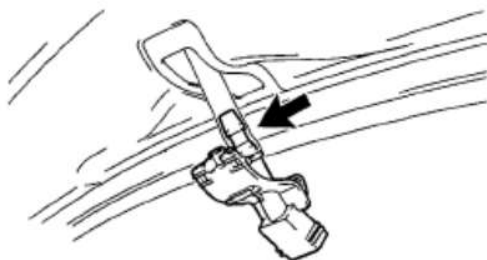


Fig. 80: Identifying Washer Nozzle Spray Area
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD****3. INSTALL WASHER NOZZLE**

- a. Connect a new washer nozzle to the washer hose.



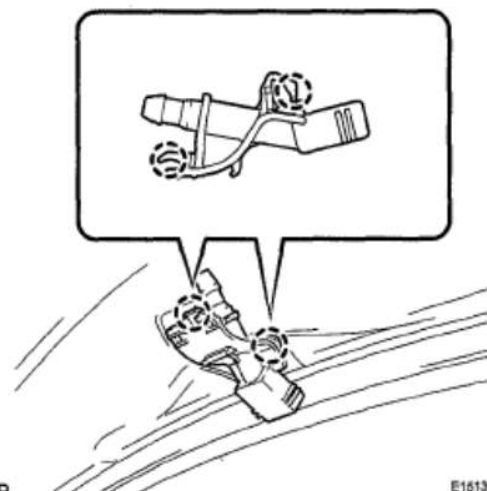
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Fig. 81: Identifying Washer Nozzle

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

- b. Engage the 2 claws and connect the washer nozzle.



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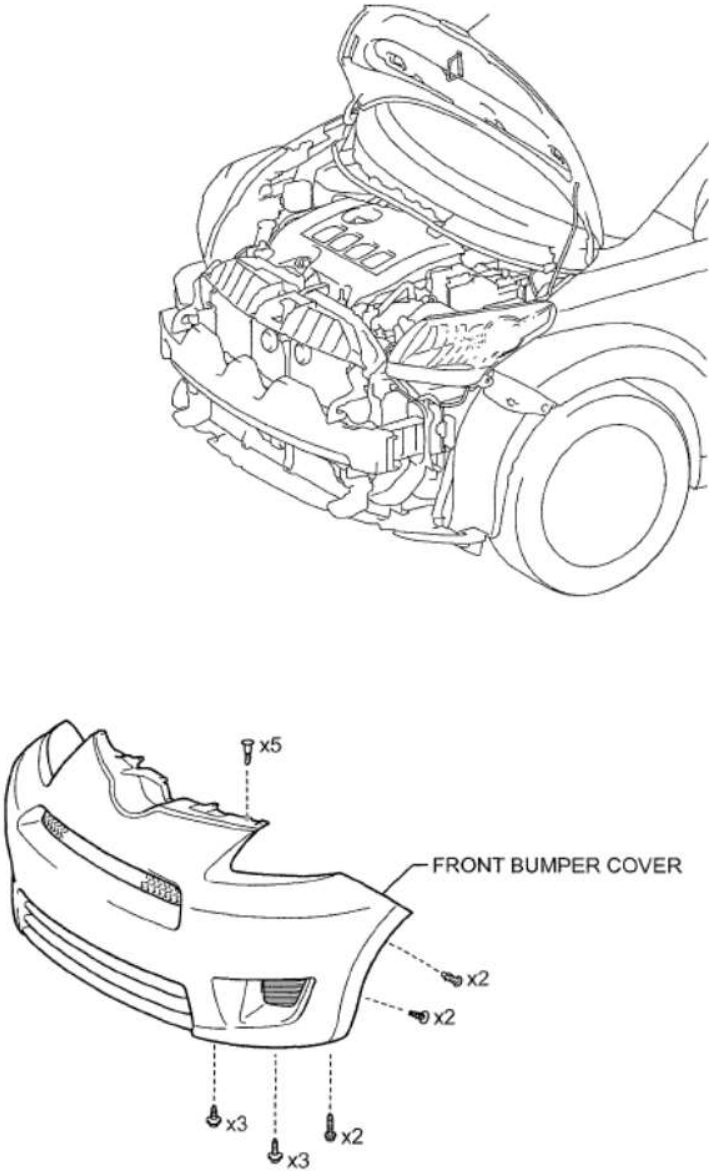
Fig. 82: Identifying Claws On Washer Nozzle

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

WASHER LEVEL WARNING SWITCH**COMPONENTS**

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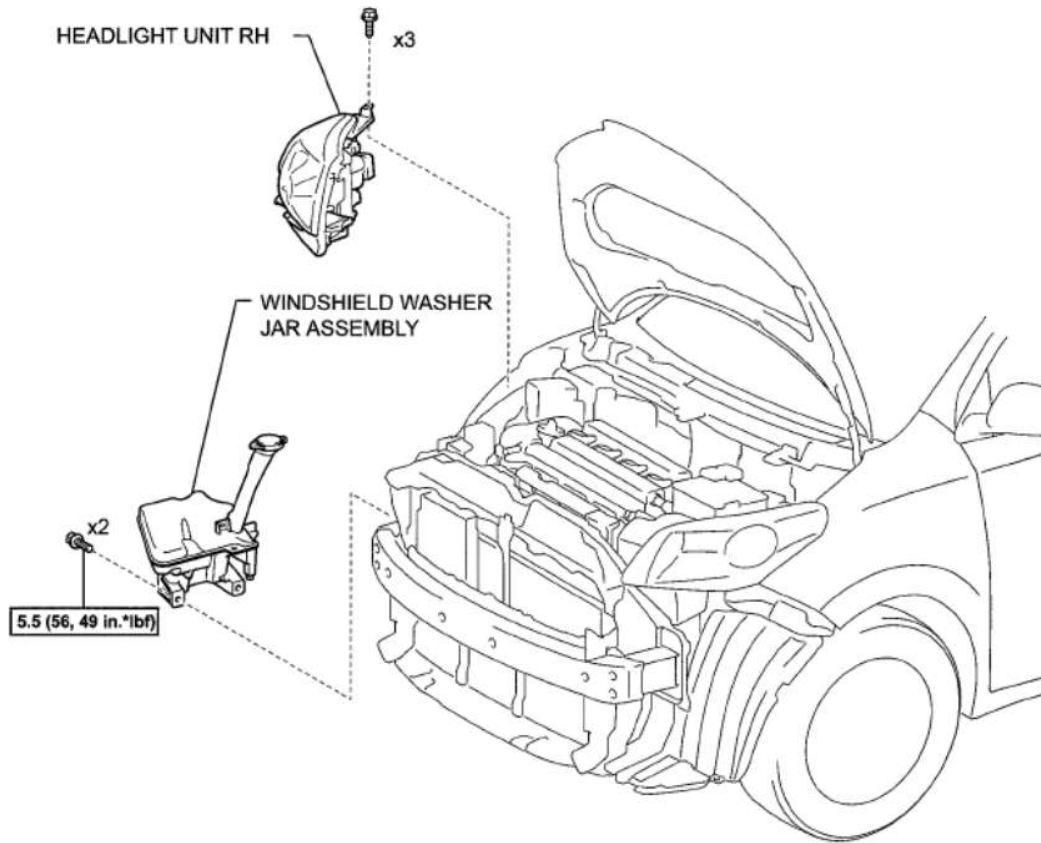
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Fig. 83: Identifying Washer Level Warning Switch Components (1 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

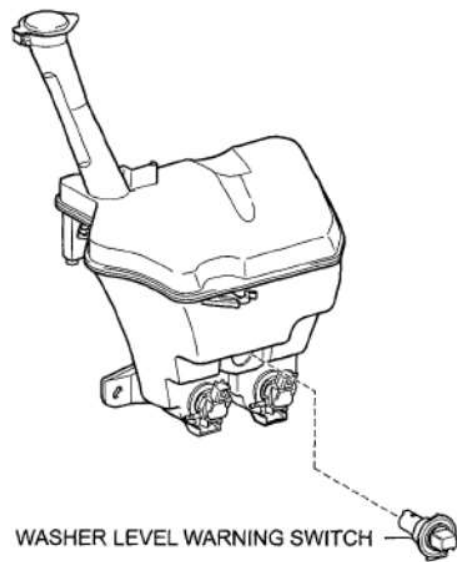
2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD**

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Fig. 84: Identifying Washer Level Warning Switch Components With Torque Specification (2 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Fig. 85: Identifying Washer Level Warning Switch Components (3 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ON-VEHICLE INSPECTION

1. INSPECT WASHER LEVEL WARNING SWITCH

- a. Check the operation of the washer level warning switch.
 - 1. Fill the washer jar with washer fluid.

HINT:

The operation should be performed with the washer level warning switch installed on the washer jar assembly.

- 2. Check the resistance.

HINT:

Pull out the washer hose connected to the washer motor. Perform the inspection while draining the washer fluid.

Standard resistance

STANDARD RESISTANCE SPECIFICATIONS	
Amount of remaining washer fluid	Specified Condition

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600 to 800 ml or more	10 kohms or higher
600 to 800 ml or less	Below 1ohms

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

Component without harness connected:
(Washer Level Warning Switch)

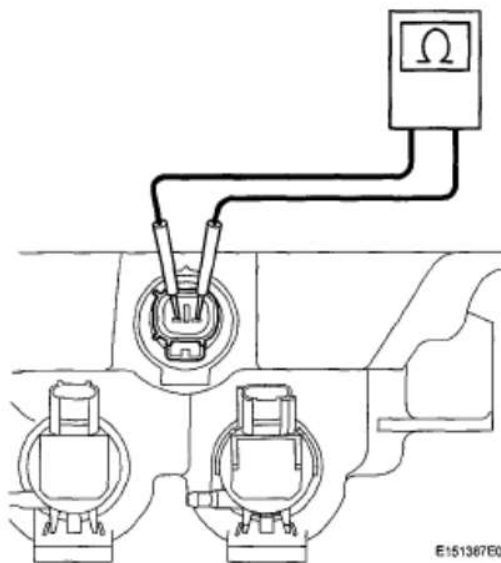


Fig. 86: Checking Operation Of Washer Level Warning Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE FRONT BUMPER COVER** (See **REMOVAL**)
2. **REMOVE HEADLIGHT UNIT RH** (See **REMOVAL**)
3. **DRAIN WASHER FLUID**
 - a. Disconnect the 2 washer hoses from the washer motor and pump assembly, and drain the washer fluid.
4. **REMOVE WINDSHIELD WASHER JAR ASSEMBLY** (See **REMOVAL**)
5. **REMOVE WASHER LEVEL WARNING SWITCH**
 - a. Pull the washer motor and pump out of the packing of the washer jar assembly.

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2008 ACCESSORIES AND EQUIPMENT Wiper & Washer - xD

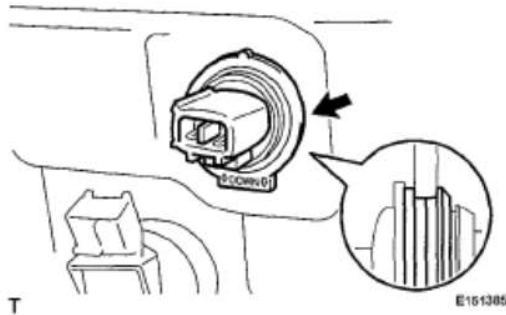


Fig. 87: Locating Washer Level Warning Switch Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. INSTALL WASHER LEVEL WARNING SWITCH

- Install the washer level warning switch onto the packing of the washer jar assembly.

NOTE: Check the orientation of the switch.

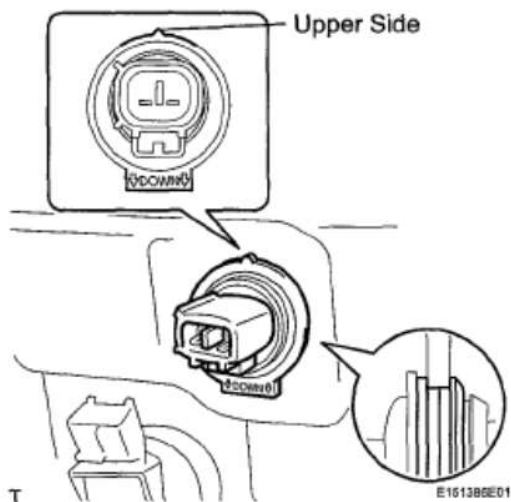


Fig. 88: Identifying Washer Level Warning Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- INSTALL WINDSHIELD WASHER JAR ASSEMBLY (See INSTALLATION)
- FILL UP WASHER JAR AND PUMP ASSEMBLY WITH WASHER FLUID
 - Connect the washer hose to the washer motor and pump assembly, and fill the washer jar assembly with washer fluid.
- INSTALL HEADLIGHT UNIT RH (See INSTALLATION)
- INSTALL FRONT BUMPER COVER (See INSTALLATION)