

REPORT NUMBER 118-GTL-08-008

**SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 118
POWER-OPERATED WINDOW, PARTITION
AND ROOF PANEL SYSTEMS**

**TOYOTA MOTOR CORPORATION
2008 SCION XD PASSENGER CAR
NHTSA NO. C85107**

**GENERAL TESTING LABORATORIES, INC.
1623 LEEDSTOWN ROAD
COLONIAL BEACH, VIRGINIA 22443**



OCTOBER 3, 2008

FINAL REPORT

PREPARED FOR

**U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
1200 NEW JERSEY AVE., SE
WASHINGTON, D.C. 20590**

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16. Abstract Compliance tests were conducted on the subject 2008 Scion XD Passenger Car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-118-06 for the determination of FMVSS 118 compliance. Test failures identified were as follows: None		
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SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF TEST

A model year 2008 Scion XD Passenger Car was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 118 testing to determine if the vehicle was in compliance with the requirements of the standard. FMVSS 118 specifies requirements for power-operated window, partition, and roof panel systems to minimize the likelihood of death or injury from their accidental operation.

1.1 The test vehicle was a 2008 Scion XD Passenger Car. The vehicle was identified as follows:

A. Vehicle Identification Number: JTKKU10468J015848

B. NHTSA No.: C85107

C. Manufacturer: TOYOTA MOTOR CORPORATION

D. Manufacture Date: 11/07

E. Color: Black Sand Pearl

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 118 testing on September 29, 2008.

SECTION 2

TEST PROCEDURE AND SUMMARY OF RESULTS

2.0 TEST PROCEDURE

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedure TP-118-06 dated 12 April 2006 and General Testing Laboratories, Inc. (GTL) Test Procedure, TP-118-03A, "Power Operated Window, Partition and Roof Panel Systems".

FMVSS 118 Compliance Testing was performed in the following sequence:

- A. Test Vehicle Identification/Documentation
- B. Power Window, partition and roof panel identification/documentation
- C. Interior, exterior and remote control switch identification/documentation
- D. Pre-test operation of all power windows, partitions and roof panels
- E. Photograph vehicle and interior, exterior and remote control devices
- F. Perform Interior Locking System Off Test
- G. Perform Interior Locking System with Key Removed Test
- H. Perform Exterior Locking System Test
- I. Perform Remote Actuation Device Test
- J. Perform Occupant Compartment Actuation Device Test(Sphere Test/Pull up or Pull Out Test)
- K. Perform Automatic Reversal System Test

Above tests H, I, and K were not required on this vehicle due to no exterior or remote actuation devices. Test J was performed for information purposes only.

2.1 SUMMARY OF RESULTS

The power window operational test resulted in no anomalies being noted. Test data indicate the FMVSS 118 requirements appear to have been satisfied. All test data resulting from the tests were recorded on test data sheets in Section 3.

SECTION 3

TEST DATA

3.0 TEST RESULTS

The following data sheets document the results of FMVSS 118 testing on the 2008 Scion XD.

FMVSS 118
COMPLIANCE DATA SUMMARY SHEET

VEHICLE MAKE/MODEL/BODY STYLE: 2008 SCION XD

VEHICLE NHTSA NO: C85107 VIN: JTKKU10468J015848

VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 11/07

LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 09/29/08

REQUIREMENT	PASS	FAIL	N/A
S4 Interior Locking system in Off Position(s)	X		
S4 Interior Locking System with Key Removed	X		
S4 Exterior Locking System			X
S4 Remote Actuation Device			X
S6 Occupant Compartment Actuation Devices (Sphere Test/Pull Up or Pull Out Test)	X*		
S5 Automatic Reversal System			X

REMARKS: * Compliance not required

RECORDED BY: G. Farrand

DATE: 09/29/08

APPROVED BY: D. Messick

WPRP PRE-OPERATIONAL CHECK

VEHICLE MAKE/MODEL/BODY STYLE: 2008 SCION XDVEHICLE NHTSA NO: C85107 VIN: JTKKU10468J015848VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 11/07LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 09/29/08

Identify power-operated WPRP and WPRP actuation devices

	LEFT FRONT	LEFT REAR	RIGHT FRONT	RIGHT REAR	TAIL GATE	LEFT VENT	RIGHT VENT	ROOF PANEL
Power WPRP Installed	X	X	X	X				
Individual Interior Actuation Devices	X	X	X	X				
Master Control Panel Actuation Devices	X							
WPRP Operated by Exterior Locking System								
WPRP Operated by Remote Control								
WPRP with Auto-Reverse Capability								
WPRP with Express-Up Capability								

Master Control Panel Location: DRIVER'S DOOR PANELExterior Locking System Location: N/A

Remote Control Type: () Line of Sight () Non-line of Sight

WPRP Actuation Device Design (Toggle, Rocker, Push/Pull (Lever) or describe other):

Master Control Panel Push/Pull
 Individual Window Push/Pull
 Roof Panel _____
 Vents _____

Interior Locking System Key Positions (clockwise): LOCK, ACC, ON, START

All WPRP open/close cycles are satisfactory with key in "ON" position:

(X) YES () NO

All WPRP open/close cycles are satisfactory with key in "ACCESSORY" position:

(X) YES () Not Applicable –No power to WPRP's

REMARKS:

RECORDED BY: G. FarrandDATE: 09/29/08APPROVED BY: D. Messick

DATA SHEET 1
INTERIOR LOCKING SYSTEM TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2008 SCION XD

VEHICLE NHTSA NO: C85107 VIN: JTKKU10468J015848

VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 11/07

LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 09/29/08

Key lock position at start of test execution: (X) ON () ACCESSORY, Then to:
Key lock off position during test execution: (X) LOCK (X) OFF () ACCESSORY

ACTUATION DEVICES	DOORS CLOSED		LEFT DOOR OPEN		RIGHT DOOR OPEN		PASS/ FAIL
	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
MASTER CONTROL PANEL ACTUATION DEVICES							
Left Front (LF)		X	X		X		P
Right Front (RF)		X	X		X		P
Left Rear (LR)		X	X		X		P
Right Rear (RR)		X	X		X		P
Tail Gate (TG)							
Vents							
Roof Panel (RP)							
INDIVIDUAL ACTUATION DEVICES							
Left Front (LF)		X	X		X		P
Right Front (RF)		X	X		X		P
Left Rear (LR)		X	X		X		P
Right Rear (RR)		X	X		X		P
Tail Gate (TG)							
Vents							
Roof Panel (RP)							

REMARKS:

RECORDED BY: G. Farrand

DATE: 09/29/08

APPROVED BY: D. Messick

DATA SHEET 2
INTERIOR LOCKING SYSTEM WITH KEY REMOVED TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2008 SCION XD

VEHICLE NHTSA NO: C85107 VIN: JTKKU10468J015848

VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 11/07

LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 09/29/08

Key lock position at start of test execution: (X) ON () ACCESSORY, Then to:
Key lock off position during test execution: (X) LOCK () OFF () ACCESSORY

ACTUATION DEVICES	DOORS CLOSED		LEFT DOOR OPEN		RIGHT DOOR OPEN		PASS/FAIL
	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
MASTER CONTROL PANEL ACTUATION DEVICES							
Left Front (LF)		X	X		X		P
Right Front (RF)		X	X		X		P
Left Rear (LR)		X	X		X		P
Right Rear (RR)		X	X		X		P
Tail Gate (TG)							
Vents							
Roof Panel (RP)							
INDIVIDUAL ACTUATION DEVICES							
Left Front (LF)		X	X		X		P
Right Front (RF)		X	X		X		P
Left Rear (LR)		X	X		X		P
Right Rear (RR)		X	X		X		P
Tail Gate (TG)							
Vents							
Roof Panel (RP)							

REMARKS:

RECORDED BY: G. Farrand

DATE: 09/29/08

APPROVED BY: D. Messick

DATA SHEET 3
OCCUPANT COMPARTMENT ACTUATION DEVICE TEST
SPHERE TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2008 SCION XD
 VEHICLE NHTSA NO: C85107 VIN: JTKKU10468J015848
 VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 11/07
 LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 09/29/08

ACTUATION DEVICES	APPLICABLE (YES/NO*)	SPHERE ACTIVATED ACTUATION DEVICE CLOSES WPRP (YES/NO)	TEST RESULT PASS/FAIL	COMPLIANCE REQUIRED (Y/N**)
MASTER CONTROL PANEL ACTUATION DEVICES				
Left Front (LF)	No	No	Pass	No
Right Front (RF)	No	No	Pass	No
Left Rear (LR)	No	No	Pass	No
Right Rear (RR)	No	No	Pass	No
Tail Gate (TG)				
Vent Window(s)				
Partition (P)				
Roof Panel (RP)				
INDIVIDUAL ACTUATION DEVICES				
Left Front (LF)	No	No	Pass	No
Right Front (RF)	No	No	Pass	No
Left Rear (LR)	No	No	Pass	No
Right Rear (RR)	No	No	Pass	No
Tail Gate (TG)				
Vent Window (s)				
Partition(P)				
Roof Panel (RP)				

*This requirement does not apply to actuation devices that are mounted in a vehicle's roof, headliner, or overhead console and that can close a window, partition, or roof panel only by continuous rather than momentary switch actuation or actuation devices that comply with the reversing requirement of FMVSS 118, S5.

** Requirement is effective 1 October 2008. Early compliance is voluntary and test results are used for information only.

RECORDED BY: G. Farrand
 APPROVED BY: D. Messick

DATE: 09/29/08

DATA SHEET 4
OCCUPANT COMPARTMENT ACTUATION DEVICE TEST
FOR POWER-OPERATED WINDOWS ONLY
PULL UP OR PULL OUT TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2008 SCION XD
 VEHICLE NHTSA NO: C85107 VIN: JTKKU10468J015848
 VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 11/07
 LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 09/29/08

ACTUATION DEVICES	SWITCH ORIENTATION A – horizontal B – vertical C - angled	CLOSES POWER-OPERATED WINDOW ONLY IF: PULL UP OR PULL OUT	TEST RESULT PASS/FAIL	COMPLIANCE REQUIRED (Y/N**)
MASTER CONTROL PANEL ACTUATION DEVICES				
Left Front (LF)	A	Pull Up	Pass	No
Right Front (RF)	A	Pull Up	Pass	No
Left Rear (LR)	A	Pull Up	Pass	No
Right Rear (RR)	A	Pull Up	Pass	No
Vent Window(s)				
INDIVIDUAL ACTUATION DEVICES				
Left Front (LF)	A	Pull Up	Pass	No
Right Front (RF)	A	Pull Up	Pass	No
Left Rear (LR)	A	Pull Up	Pass	No
Right Rear (RR)	A	Pull Up	Pass	No
Vent Window(s)				

** Requirement is effective 1 October 2008. Early compliance is voluntary and test results are used for information only.

RECORDED BY: G. Farrand
 APPROVED BY: D. Messick

DATE: 09/29/08

SECTION 4
TEST EQUIPMENT LIST

VEHICLE MAKE/MODEL/BODY STYLE: 2008 SCION XD
 VEHICLE NHTSA NO: C85107 VIN: JTKKU10468J015848
 VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 11/07
 LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 09/29/08

ITEM	MFR	MODEL	S/N	CAL. PERIOD	DATE OF LAST CALIB.	REMARKS
SLR DIGITAL CAMERA	NIKON	D50	N/A	N/A	N/A	
PINCH FORCE SENSOR	SENSOR DEVELOPMENTS, INC.	10293	179104	12 MO.	06/08	

REMARKS:

RECORDED BY: G. FARRAND

DATE: 09/29/08

APPROVED BY: D. MESSICK

SECTION 5
PHOTOGRAPHS



2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.1
¾ FRONTAL VIEW FROM RIGHT SIDE OF VEHICLE



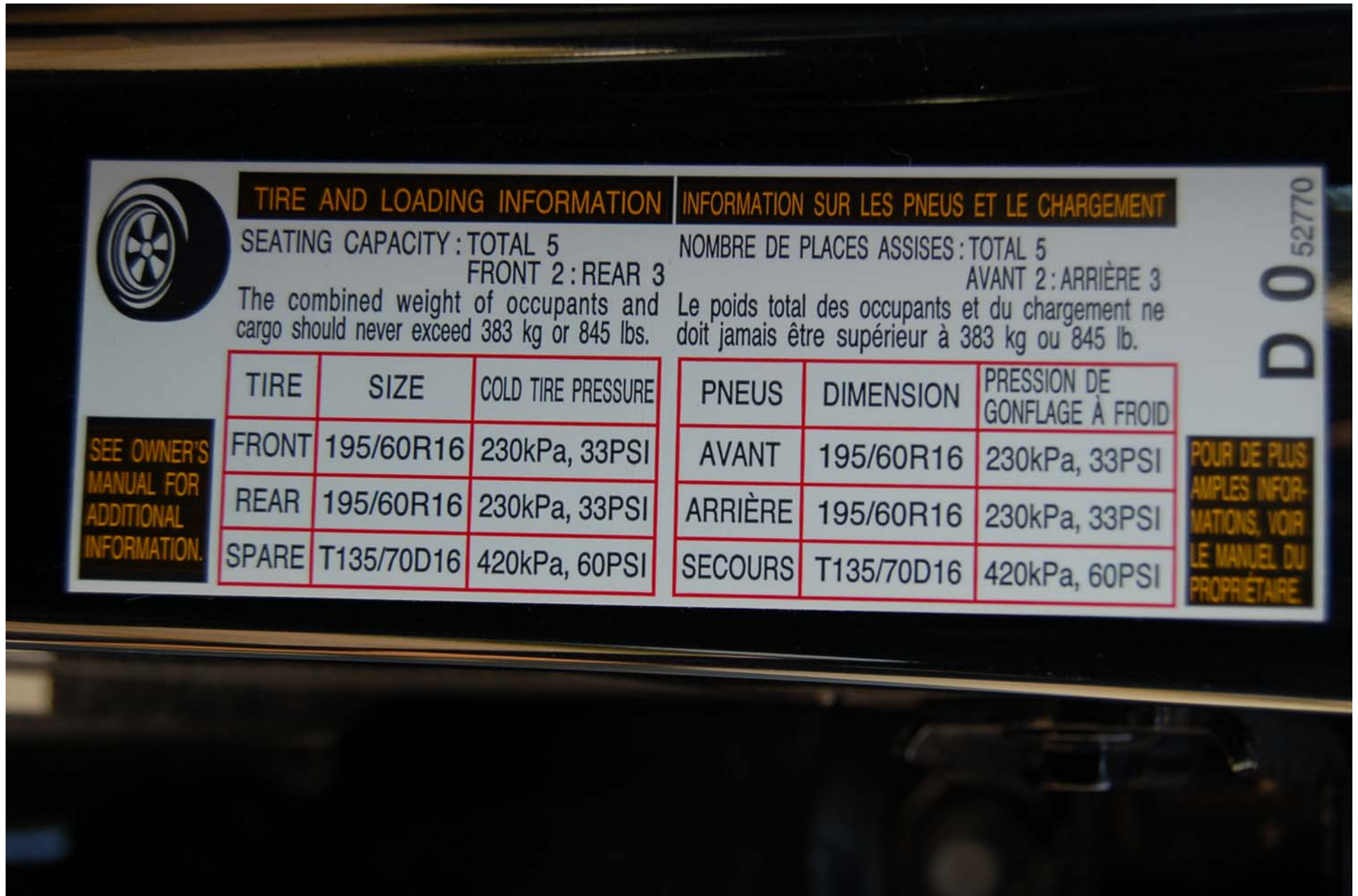
2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.2
¾ REAR VIEW FROM LEFT SIDE OF VEHICLE



2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.3
CLOSE-UP VIEW OF VEHICLE CERTIFICATION LABEL



TIRE AND LOADING INFORMATION

INFORMATION SUR LES PNEUS ET LE CHARGEMENT



SEATING CAPACITY: TOTAL 5
FRONT 2 : REAR 3

NOMBRE DE PLACES ASSISES: TOTAL 5
AVANT 2 : ARRIÈRE 3

The combined weight of occupants and cargo should never exceed 383 kg or 845 lbs.

Le poids total des occupants et du chargement ne doit jamais être supérieur à 383 kg ou 845 lb.

TIRE	SIZE	COLD TIRE PRESSURE
FRONT	195/60R16	230kPa, 33PSI
REAR	195/60R16	230kPa, 33PSI
SPARE	T135/70D16	420kPa, 60PSI

PNEUS	DIMENSION	PRESSION DE GONFLAGE À FROID
AVANT	195/60R16	230kPa, 33PSI
ARRIÈRE	195/60R16	230kPa, 33PSI
SECOURS	T135/70D16	420kPa, 60PSI

SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION.

POUR DE PLUS AMPLES INFORMATIONS, VOIR LE MANUEL DU PROPRIÉTAIRE.

DO 52770

2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.4
CLOSE-UP VIEW OF TIRE INFORMATION LABEL



2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.5
CLOSE-UP VIEW OF VEHICLE IGNITION SWITCH



2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.6
CLOSE-UP VIEW OF LEFT FRONT POWER WINDOW
SWITCH



2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.7
CLOSE-UP VIEW OF RIGHT FRONT POWER WINDOW
SWITCH



2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.8
CLOSE-UP VIEW OF LEFT REAR POWER WINDOW
SWITCH



2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.9
CLOSE-UP VIEW OF RIGHT REAR POWER WINDOW
SWITCH



2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.10
CLOSE-UP VIEW OF POWER WINDOW MASTER SWITCH

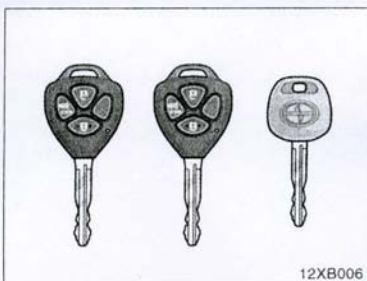


2008 SCION XD
NHTSA NO. C85107
FMVSS NO. 118

FIGURE 5.11
TYPICAL SWITCH/SPHERE TEST SET-UP

SECTION 6
OWNER'S MANUAL INFORMATION

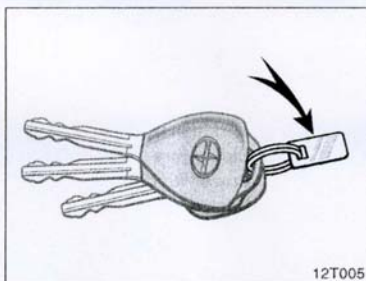
Keys



These keys work in every lock.

Since the side doors can be locked without a key, you should always carry a spare key in case you accidentally lock your keys inside the vehicle.

For information on use of the wireless remote control key, see "Wireless remote control" below.



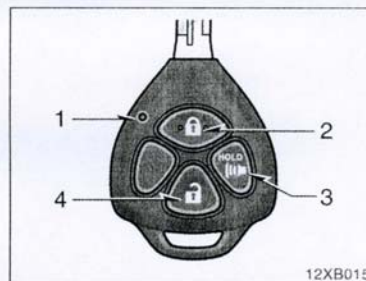
KEY NUMBER PLATE

Your key number is shown on the plate. Keep the plate in a safe place such as your wallet, not in the vehicle.

If you should lose your keys or if you need additional keys, duplicates can be made by a Scion dealer using the key number.

We recommend writing down the key number and storing it in a safe place.

Wireless remote control—



1. Indicator light
2. Lock switch
3. Panic switch
4. Unlock switch

The wireless remote control system is designed to lock or unlock the side doors and back door, or activate the panic mode from a distance within approximately 1 m (3 ft.) of the vehicle.

When you operate any switch, push it slowly and securely. At this time, the indicator light flashes once.

8

The wireless remote control key is an electronic component. Observe the following instructions in order not to cause damage to the key.

- Do not leave the key in places where the temperature becomes high such as on the dashboard.
- Do not disassemble it.
- Avoid knocking it hard against other objects or dropping it.
- Avoid putting it in water.

You can use up to 4 wireless remote control keys for the same vehicle. Contact your Scion dealer for detailed information.

If the wireless remote control key does not actuate the doors or operate from a normal distance, or the indicator light on the key is dimmed or does not come on:

- Check for closeness to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the key.
- The battery may have been consumed. Check the battery in the key. To replace the battery, see "Replacing battery" on page 12.

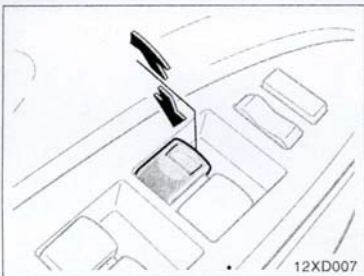
If you lose your wireless remote control key, contact your Scion dealer as soon as possible to avoid the possibility of theft, or an accident. (See "If you lose your keys" on page 221.)

FCC ID: MOZB41TG

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

9

Power windows



The windows can be operated with the switch on each side door.

The power windows work when the engine switch is in the "ON" position.

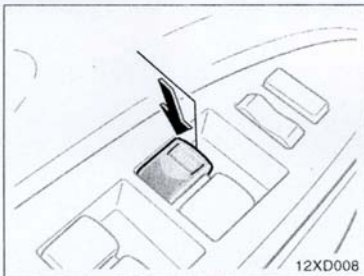
Key off operation: If both front doors are closed, they work for 45 seconds even after the engine switch is turned off. They stop working when either front door is opened.

OPERATING THE DRIVER'S WINDOW

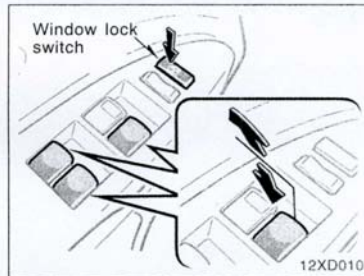
Use the switch on the driver's door.

Normal operation: The window moves as long as you hold the switch.

To open: Lightly push down the switch.
To close: Pull up the switch.



Automatic operation (to open only): Push the switch completely down and then release it. The window will fully open. To stop the window partway, lightly pull the switch up and then release it.



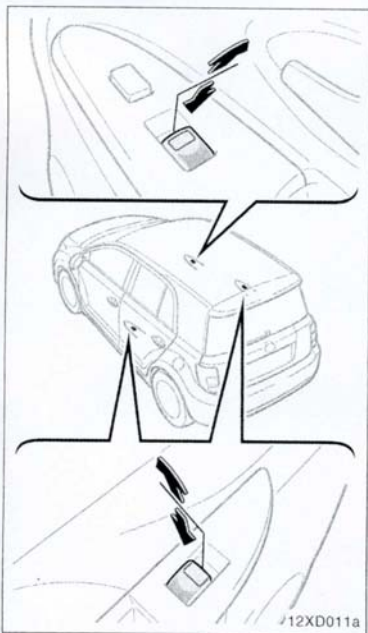
OPERATING THE PASSENGERS' WINDOWS

Use the switch on each passenger's door or the driver's door that controls each passenger's window.

The window moves as long as you hold the switch.

To open: Push down the switch.
To close: Pull up the switch.

If you push in the window lock switch on the driver's door, the passengers' windows cannot be operated.



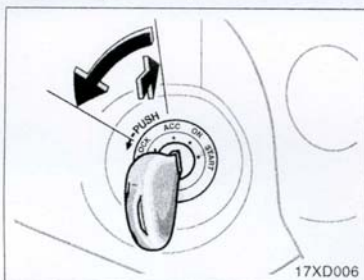
CAUTION

To avoid death or serious personal injury, you must do the following.

- Before you close the power windows, always make sure there is nobody around the power windows. You must also make sure the heads, hands and other parts of the bodies of all occupants are kept completely inside the vehicle. If someone's neck, head or hands get caught in a closing window, it could result in death or serious injury. When anyone closes the power windows, make sure he or she operates the windows safely.
- When small children are in the vehicle, never let them use the power window switches without supervision. Use the window lock switch to prevent them from making unexpected use of the switches.

- Be sure to remove the ignition key when you leave your vehicle.
- Never leave anyone (particularly a small child) alone in your vehicle, especially with the ignition key still inserted. Otherwise, he or she could use the power window switches and get trapped in a window. Unattended person (particularly a small child) can be involved in a serious accident.

Engine (ignition) switch



“START”—Starter motor on. The key will return to the “ON” position when released.

For starting tips, see page 190.

“ON”—Engine on and all accessories on.

This is the normal driving position.

“ACC”—Accessories such as the radio operate, but the engine is off.

If you leave the key in the “ACC” or “LOCK” position and open the driver’s door, a buzzer will remind you to remove the key.

“LOCK”—Engine is off and the steering wheel is locked. The key can be removed only at this position.

You must push in the key to turn the key from “ACC” to the “LOCK” position. On vehicles with an automatic transmission, the selector lever must be put in the “P” position before pushing the key.

When starting the engine, the key may seem stuck at the “LOCK” position. To free it, first be sure the key is pushed all the way in, and then rock the steering wheel slightly while turning the key gently.

Approximately 5 hours after the engine is turned off, you may hear a sound coming from underneath the luggage compartment for several minutes. This is normal operation and does not indicate a malfunction. (See “Leak detection pump” on page ix.)

NOTICE

Do not leave the key in the “ON” position if the engine is not running. The battery will discharge and the ignition could be damaged.



CAUTION

For manual transmission:

Never remove the key when the vehicle is moving, as this will lock the steering wheel and result in loss of steering control.