

REPORT NO. 118-KAR-07-005

**SAFETY COMPLIANCE TESTING
FOR FMVSS 118**

**Power-Operated Window, Partition,
And Roof Panel Systems**

2008 SUZUKI SX4
5-DOOR MPV

NHTSA NO. C80500

PREPARED BY:
KARCO ENGINEERING, LLC.
9270 HOLLY ROAD
ADELANTO, CALIFORNIA 92301



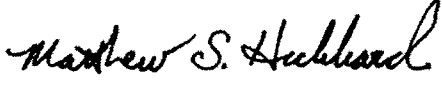
June 23, 2008


Final Report


PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
MAIL CODE: NVS-221
1200 NEW JERSEY AVE SE, ROOM W43-498
WASHINGTON, D.C. 20590

This final test report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, under Contract DTNH22-06-C-00034.

This publication is distributed by the U.S. Department of Transportation, National Highway Traffic Safety Administration in the interest of information exchange. The opinions, findings and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof. If trade or manufacturers' names or products are mentioned, it is only because they are considered essential to the object of the publication and should not be construed as an endorsement. The United States Government does not endorse products or manufacturers.

Prepared by:  Date: 06/23/08
Mr. Matthew S. Hubbard, Test Engineer
KARCO Engineering, LLC.

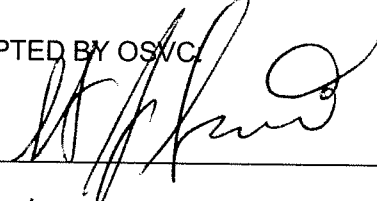
Reviewed by:  Date: 06/23/08
Mr. Michael L. Dunlap, Director of Operations
KARCO Engineering, LLC.

Approved by:  Date: 06/23/08
Mr. Frank D. Richardson, Program Manager
KARCO Engineering, LLC.

FINAL REPORT ACCEPTED BY OSVC

Accepted by:

Acceptance Date:


7/14/08

Technical Report Documentation Page

1. <i>Report No.</i> 118-KAR-07-005	2. <i>Government Accession No.</i>	3. <i>Recipient's Catalog No.</i>	
4. <i>Title and Subtitle</i> Final Report of FMVSS 118 Compliance Testing of 2008 Suzuki SX4 5-Door MPV, NHTSA NO. C80500		5. <i>Report Date</i> 06-23-08	
		6. <i>Performing Organization Code</i> KAR	
7. <i>Author(s)</i> Mr. Matthew S. Hubbard, Test Engineer, KARCO Mr. Michael L. Dunlap, Director of Operations, KARCO		8. <i>Performing Organization Report No.</i> TR-P27009-05-NC	
9. <i>Performing Organization Name and Address</i> KARCO Engineering 9270 Holly Road Adelanto, California 92301		10. <i>Work unit No.</i>	
		11. <i>Contract or Grant No.</i> DTNH22-06-C-00034	
12. <i>Sponsoring Agency Name and Address</i> U.S. Department of Transportation National Highway Traffic Safety Administration Enforcement Office of Vehicle Safety Compliance Mail Code: NVS-221 1200 New Jersey Ave SE, Room W43-410 Washington, D.C. 20590		13. <i>Type of report and Period Covered</i> Final Report- June 23, 2008	
		14. <i>Sponsoring Agency Code</i> NVS-221	
15. <i>Supplementary Notes</i>			
16. <i>Abstract</i> Compliance tests were conducted on the subject 2008 Suzuki SX4 5-Door MPV in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP118-05 for the determination of FMVSS 118 compliance. Test failures identified were as follows: None			
17. <i>Key Words</i> Compliance Testing Safety Engineering FMVSS 118		18. <i>Distribution Statement</i> Copies of this report are available from: National Highway Traffic Safety Admin. Technical Information Services (TIS) Mail Code: NVS-221 1200 New Jersey Ave SE, Room W43-410 Washington, D.C. 20590	
19. <i>Security Classification (of this report)</i> UNCLASSIFIED	20. <i>Security Classification (of this page)</i> UNCLASSIFIED	21. <i>No. of Pages</i> 37	22. <i>Price</i>

Form DOT F1700.7 (8-72)

TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1	Purpose of Compliance Test	1
2	Test Procedure and Data Summary	2
3	Test Data	5
4	Photographs	15
5	Data Plots	25
6	Copy of Owner's Manual Instructions for Use of Power Windows	26

1. PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2008 Suzuki SX4 5-Door MPV, manufactured by Suzuki Motor Corporation to determine compliance with FMVSS 118 "Power-Operated Window, Partition, and Roof Panel Systems". 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.

All tests were conducted based on the current National Highway Traffic Safety Administration (NHTSA), Office of Vehicle Safety Compliance (OVSC) Laboratory Procedures, TP-118-05, dated March 24, 2005, and corresponding KARCO Engineering test procedure KTP-118, dated March 16, 2004. Detailed procedures for receiving, inspecting, testing and reporting of test results are described in the test procedures and are not repeated in this report.

2. TEST PROCEDURE AND DATA SUMMARY

A 2008 Suzuki SX4 5-Door MPV was subjected to FMVSS 118 compliance testing. The tests were conducted at KARCO Engineering in Adelanto, California on June 23, 2008. FMVSS 118 Compliance testing was performed in the following sequence:

- Vehicle Receiving Photographs
- Test Vehicle Check-in
- Power Window, Partitions and Roof Panel Identification/Documentation
- Interior, Exterior and Remote Control Switch Identification/Documentation
- Pre-Test Operation of all Power Windows, Partitions and Roof Panels
- Photograph Vehicle Ignition Switch and Master and Individual Power Window, Partition and Roof Panel Switches
- Perform Ignition Switch off Test
- Perform Ignition Key Removed Test
- Perform Exterior Key Locking System Test
- Perform Remote Control System Test
- Perform Reversal System Test

DATA SUMMARY

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

SWITCH ACTUATION

WINDOWS, PARTITIONS, ROOF PANEL SWITCHES	INTERIOR KEY LOCKING SYSTEM		EXTERIOR LOCKING SYSTEM (PASS / FAIL)
	IGNITION KEY OFF (PASS/FAIL)	IGNITION KEY REMOVED (PASS/FAIL)	
MASTER SWITCH PANEL			
Left Front (LF)	PASS	PASS	N/A
Right Front (RF)	PASS	PASS	N/A
Left Rear (LR)	PASS	PASS	N/A
Right Rear (RR)	PASS	PASS	N/A
Tail Gate (TG)	N/A	N/A	N/A
Partition	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A
INDIVIDUAL SWITCHES			
Left Front (LF)	PASS	PASS	N/A
Right Front (RF)	PASS	PASS	N/A
Left Rear (LR)	PASS	PASS	N/A
Right Rear (RR)	PASS	PASS	N/A
Tail Gate (TG)	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A

REMARKS: The master switch control panel is located on the driver's side door panel and includes the individual left front window switch. Vehicle passed as soon as ignition "off" test was performed.

DATA SUMMARY...(CONTINUED)

REMOTE ACTUATION DEVICE

VEHICLE ORIENTATION REMOTE ACTUATION DEVICE	NON-LINE OF SIGHT REMOTE (METERS)	LINE OF SIGHT REMOTE (METERS)
FRONT	N/A	N/A
DRIVER SIDE	N/A	N/A
PASSENGER SIDE	N/A	N/A
REAR	N/A	N/A

WPRP OBSTRUCTION FORCE REVERSAL

WINDOW, PARTITION, ROOF PANEL	FORCE TO REVERSE (NEWTONS)	DISTANCE WINDOW, PARTITION, OR ROOF PANEL OPENED ON REVERSAL (mm)
LEFT FRONT (LF)	N/A	N/A
RIGHT FRONT (RF)	N/A	N/A
LEFT REAR (LR)	N/A	N/A
RIGHT REAR (RR)	N/A	N/A
PARTITION (P)	N/A	N/A
ROOF PANEL (RP)	N/A	N/A
TAIL GATE (TG)	N/A	N/A

REMARKS: This vehicle is not equipped with automatic power window up feature. This vehicle is not equipped with a remote actuation device that allows the windows to be opened.

The subject 2008 Suzuki SX4 5-Door MPV appeared to meet the requirements of FMVSS 118.

3. TEST DATA

**DATA SHEET NO. 1
VEHICLE IDENTIFICATION**

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

Identify Vehicle equipped WPRP and WPRP controls

	LEFT FRONT	LEFT REAR	RIGHT FRONT	RIGHT REAR	TAIL GATE	PARTITION	ROOF PANEL
Power Windows	X	X	X	X	N/A	N/A	N/A
Interior Switches	X	X	X	X	N/A	N/A	N/A
Master Control Panel	X	X	X	X	N/A	N/A	N/A
Exterior Switches	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Remote Controller	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Auto-Reverse	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Master Control Panel Location: **Driver Side Door Panel**

Remote Control: **None**

Window Switch Design: Master Control Switches – Flush Mounted Rocker Switch push down to open, pull up to close.
Individual Window Switches – Flush Mounted Rocker Switch push down to open, pull up to close.

Exterior Control Switch: **None**

Sunroof: **N/A**

REMARKS: Master control panel switch is located in the driver side door panel. Individual switches are located on the door panel for each door. On this vehicle the reversal feature is not required because the windows appear to meet the operational requirements of FMVSS 118 paragraph S.4.

RECORDED BY: **MATTHEW S. HUBBARD** DATE: **06/23/08**
APPROVED BY: **MICHAEL L. DUNLAP** DATE: **06/23/08**

**DATA SHEET NO. 2
IGNITION KEY OFF TEST**

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

Pre-Test Check: Window, Partition, Roof Panel Systems operate with Ignition Switch in "ON" Position		YES	X	NO			
Pre-Test Check: Window, Partition, Roof Panel Systems operate with Ignition Switch in "ACCESSORY" Position		YES		NO	X		
WINDOW SWITCHES	DOORS CLOSED		LEFT DOOR OPEN		RIGHT DOOR OPEN		PASS/FAIL
	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
MASTER							
Left Front (LF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Front (RF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Left Rear (LR)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Rear (RR)	X	N/A	N/A	N/A	N/A	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
INDIVIDUAL							
Left Front (LF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Front (RF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Left Rear (LR)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Rear (RR)	X	N/A	N/A	N/A	N/A	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
REMARKS:	The master left front switch is the same as the individual left front switch. Test was performed with key in the "Lock" position. For the pre-test check in the "Accessory" position the key was moved from the "Lock" position to the "Accessory" position without cycling through the "On" position or starting the engine. Vehicle passed as soon as ignition "off" test was performed.						

RECORDED BY: **MATTHEW S. HUBBARD** DATE: **06/23/08**
 APPROVED BY: **MICHAEL L. DUNLAP** DATE: **06/23/08**

**DATA SHEET NO. 3
IGNITION KEY REMOVED TEST**

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

WINDOW SWITCHES	DOORS CLOSED		LEFT DOOR OPEN		RIGHT DOOR OPEN		PASS/FAIL
	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
MASTER							
Left Front (LF)	X	N/A	X	N/A	X	N/A	PASS
Right Front (RF)	X	N/A	X	N/A	X	N/A	PASS
Left Rear (LR)	X	N/A	X	N/A	X	N/A	PASS
Right Rear (RR)	X	N/A	X	N/A	X	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
INDIVIDUAL							
Left Front (LF)	X	N/A	X	N/A	X	N/A	PASS
Right Front (RF)	X	N/A	X	N/A	X	N/A	PASS
Left Rear (LR)	X	N/A	X	N/A	X	N/A	PASS
Right Rear (RR)	X	N/A	X	N/A	X	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

REMARKS: The master left front switch is the same as the individual left front switch. Vehicle passed as soon as ignition "off" test was performed.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **06/23/08**

APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **06/23/08**

**DATA SHEET NO. 4
EXTERIOR KEY LOCKING SYSTEM**

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

EXTERIOR LOCKING CONTROL SWITCH TEST				
Can Any WPRP Be Operated by Directly Using A Key in an Exterior Locking Control Switch?	Yes	N/A	No	X
If Yes: Is Continuous Activation of the Switch Required	Yes	N/A	No	X

IDENTIFY WINDOW, PARTITION AND ROOF PANEL POSITIONS WHICH ARE OPERABLE WITH EXTERIOR KEY.

LOCATION	OPERABLE W/KEY		CONTINUOUS ACTION		PASS / FAIL
	YES	NO	YES	NO	
LEFT FRONT (LF)	N/A	N/A	N/A	N/A	N/A
RIGHT FRONT (RF)	N/A	N/A	N/A	N/A	N/A
LEFT REAR (LR)	N/A	N/A	N/A	N/A	N/A
RIGHT REAR (RR)	N/A	N/A	N/A	N/A	N/A
PARTITION (P)	N/A	N/A	N/A	N/A	N/A
ROOF PANEL (RP)	N/A	N/A	N/A	N/A	N/A
TAIL GATE (TG)	N/A	N/A	N/A	N/A	N/A

REMARKS: Vehicle is not equipped with an exterior key locking system capable of opening windows.

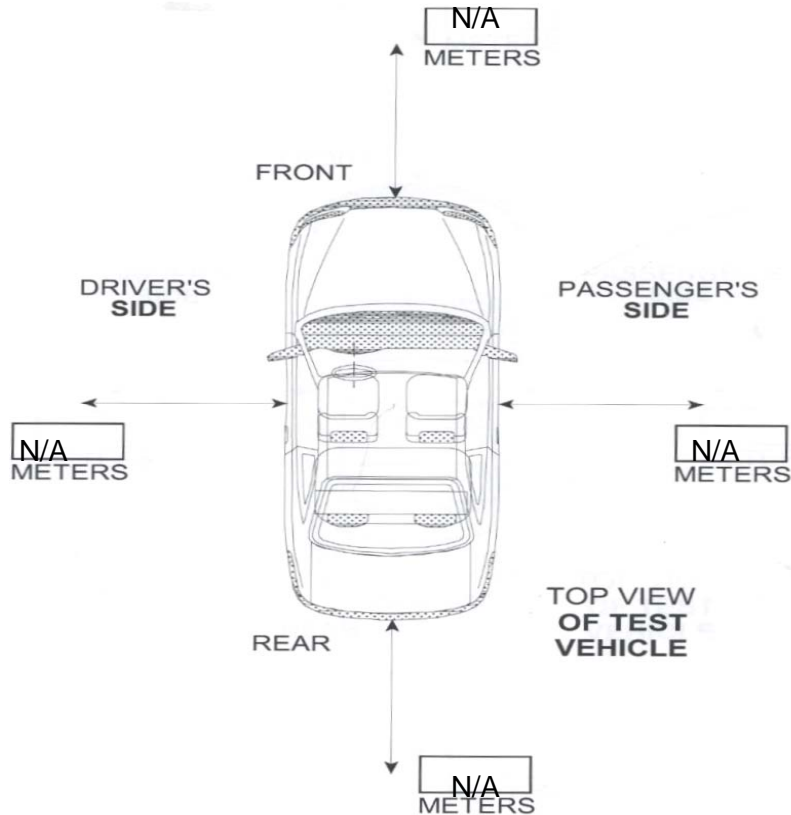
RECORDED BY: MATTHEW S. HUBBARD DATE: 06/23/08

APPROVED BY: MICHAEL L. DUNLAP DATE: 06/23/08

**DATA SHEET NO. 5
MAXIMUM OPERATING RANGE FOR LINE-OF-SIGHT REMOTE**

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

If range of operation exceeds 11 meters in any of the below measured directions, the window, partition, and roof panel must meet the reversing requirements of FMVSS 118. Continuous activation of remote device is required to close windows, partition and roof panel YES () NO ().



REMARKS: The vehicle is not equipped with a remote actuation device that allows the windows to be opened.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **06/23/08**

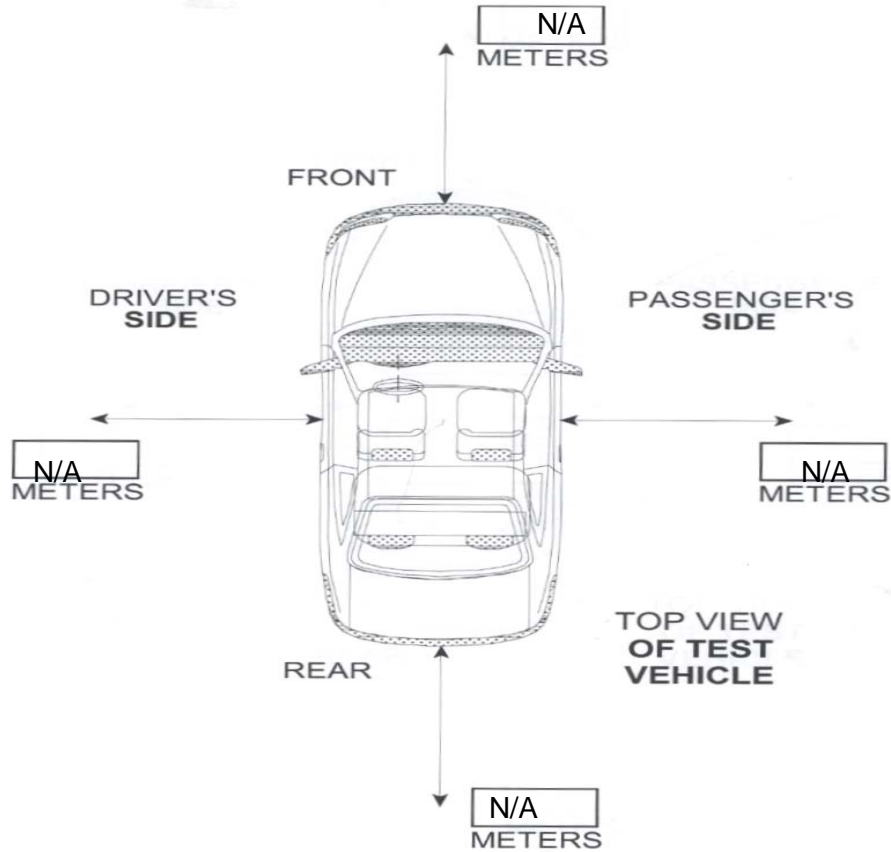
APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **06/23/08**

DATA SHEET NO. 6
MAXIMUM OPERATING RANGE FOR NON-LINE-OF-SIGHT REMOTE

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

If range of operation exceeds 6 meters in any of the below measured directions, the window, partition, and roof panel must meet the reversing requirements of FMVSS 118. Continuous activation of remote device is required to close windows, partition and roof panel YES () NO ().



REMARKS: The vehicle is not equipped with a remote actuation device that allows the windows to be opened.

RECORDED BY: **MATTHEW S. HUBBARD** DATE: **06/23/08**
APPROVED BY: **MICHAEL L. DUNLAP** DATE: **06/23/08**

**DATA SHEET NO. 7
AUTO REVERSAL**

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

IDENTIFY WINDOW, PARTITION AND ROOF PANEL POSITIONS WHICH ARE EQUIPPED WITH AUTO REVERSAL.

Is vehicle equipped with Auto Reversal	YES		NO	X
--	-----	--	----	---

SWITCHES EQUIPPED WITH AUTO REVERSAL	MASTER	INDIVIDUAL
LEFT FRONT (LF)	N/A	N/A
RIGHT FRONT (RF)	N/A	N/A
LEFT REAR (LR)	N/A	N/A
RIGHT REAR (RR)	N/A	N/A
PARTITION (P)	N/A	N/A
ROOF PANEL (RP)	N/A	N/A
TAIL GATE (TG)	N/A	N/A

REMARKS: On this vehicle there are no windows equipped with the auto reversal feature. The reversal feature is not required because the window appears to meet the operational requirements of FMVSS 118 paragraph S.4.

RECORDED BY: MATTHEW S. HUBBARD DATE: 06/23/08
 APPROVED BY: MICHAEL L. DUNLAP DATE: 06/23/08

**DATA SHEET NO. 8
AUTO REVERSAL**

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

Distance window is open from top seam to start position.

N/A

WPRP OBSTRUCTION FORCE REVERSAL

LEADING EDGE LEFT FRONT WINDOW	FORCE TO REVERSE (NEWTONS)	DISTANCE WINDOW, PARTITION, OR ROOF PANEL OPENED ON REVERSAL (mm)
5mm semi rigid rod	N/A	N/A
25mm semi rigid rod	N/A	N/A
50mm semi rigid rod	N/A	N/A
100mm semi rigid rod	N/A	N/A
200mm semi rigid rod	N/A	N/A

REMARKS: On this vehicle there are no windows equipped with the auto reversal feature. The reversal feature is not required because the window appears to meet the operational requirements of FMVSS 118 paragraph S.4.

RECORDED BY: MATTHEW S. HUBBARD

DATE: 06/23/08

APPROVED BY: MICHAEL L. DUNLAP

DATE: 06/23/08

**DATA SHEET NO. 9
AUTO REVERSAL**

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

Distance window is open from top seam to start position.

N/A

WPRP OBSTRUCTION FORCE REVERSAL

REAR EDGE LEFT FRONT WINDOW	FORCE TO REVERSE (NEWTONS)	DISTANCE WINDOW, PARTITION, OR ROOF PANEL OPENED ON REVERSAL (mm)
5mm semi rigid rod	N/A	N/A
25mm semi rigid rod	N/A	N/A
50mm semi rigid rod	N/A	N/A
100mm semi rigid rod	N/A	N/A
200mm semi rigid rod	N/A	N/A

REMARKS: On this vehicle there are no windows equipped with the auto reversal feature. The reversal feature is not required because the window appears to meet the operational requirements of FMVSS 118 paragraph S.4.

RECORDED BY: **MATTHEW S. HUBBARD**

DATE: **06/23/08**

APPROVED BY: **MICHAEL L. DUNLAP**

DATE: **06/23/08**

4. PHOTOGRAPHS

Figure 1	Frontal $\frac{3}{4}$ View from Right Side of Vehicle	16
Figure 2	Rear $\frac{3}{4}$ View from Left Side of Vehicle	17
Figure 3	Vehicle Certification Label	18
Figure 4	Tire Information Placard	19
Figure 5	Ignition Switch	20
Figure 6	Left Front Master Power Window Switch	21
Figure 7	Right Front Power Window Switch	22
Figure 8	Left Rear Power Window Switch	23
Figure 9	Right Rear Power Window Switch	24
Figure 10	Overall Test Set-Up	25



Figure 1: Frontal ¾ View From Right Side of Vehicle

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118



Figure 2: Rear ¾ View From Left Side of Vehicle

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118

MFD BY SUZUKI MOTOR CORPORATION JAPAN

DATE	GVWR	GAWR	FRT	GAWR	RR
06 / 07	3803LB	2072LB		1852LB	
	1725KG	940KG		840KG	

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY, BUMPER AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

JS2YB413485100278	PASS CAR
	2.0L 4WD US

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118

Figure 3: Vehicle Certification Label



TIRE AND LOADING INFORMATION

SEATING CAPACITY, TOTAL 5, FRONT 2, REAR 3

The combined weight of occupants and cargo should never exceed 370kg or 815lbs.

TIRE	ORIGINAL TIRE SIZE	COLD TIRE PRESSURE
FRONT	P205/60R16	230 kPa, 33 PSI
REAR	P205/60R16	230 kPa, 33 PSI
SPARE	T135/90D16	420 kPa, 60 PSI

SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION

79161-80JU

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118

Figure 4: Tire Information Placard



Figure 5: Ignition Switch

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118



2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118

Figure 6: Left Front Master Power Window Switch



Figure 7: Right Front Power Window Switch

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118



Figure 8: Left Rear Power Window Switch

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118



Figure 8: Right Rear Power Window Switch

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118



Figure 10: Overall Test Set-Up

2008 SUZUKI SX4
NHTSA NO. C80500
FMVSS NO. 118

5. DATA PLOTS

6. COPY OF OWNER'S MANUAL INSTRUCTION FOR USE OF POWER WINDOWS

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		



 **SUZUKI** 2008

SX4

OWNER'S MANUAL

Keep With Vehicle At All Times.
Contains Important Information
On Safety, Operation & Maintenance.

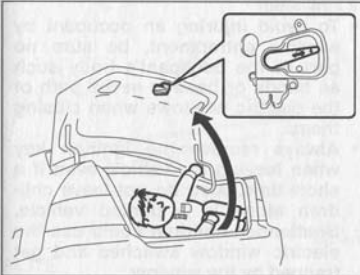
SUZUKI
Caring for Customers
Part No. 99011-80J21-03E
June, 2007  

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

BEFORE DRIVING

Internal Trunk Release (SX4 SEDAN)



54G297

There is a release lever located inside the trunk, on the rear part of the trunk lid. This lever is for emergency use so that if a person, such as a child, gets trapped in the trunk compartment, he can exit the vehicle. The lever glows in the dark, after a brief exposure to ambient light, so it can be found easily. It is operated by pushing it down in the direction of the arrow.

⚠ WARNING

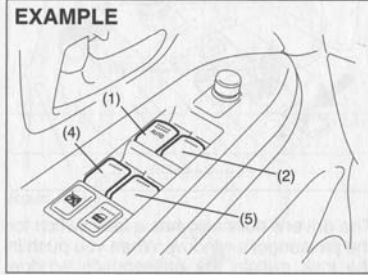
To help avoid situations where someone might get trapped in the trunk, keep your vehicle locked when unattended, and do not allow anyone to play in the trunk.

Windows

Power Window Controls

Driver's side

EXAMPLE



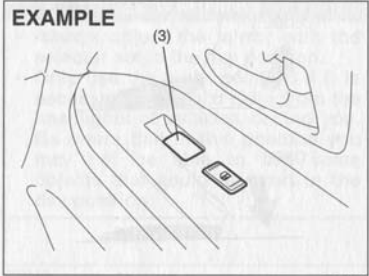
79J028

The power windows can only be operated when the ignition switch is in the "ON" position.

The driver's door has switches (1), (2), (4), (5), to operate the driver's window, the front passenger's window, the rear left window and the rear right window, respectively.

Passenger's door

EXAMPLE



80J018

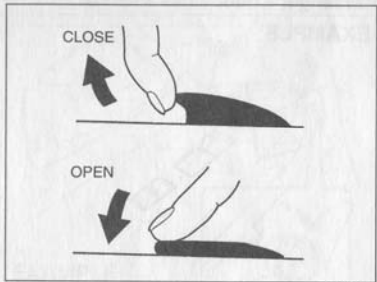
The passenger's door only has a switch to operate the passenger's window (3).

2-16

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

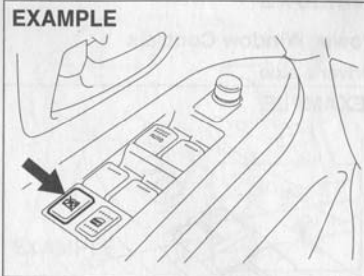
BEFORE DRIVING



81A009

To open a window, push the top part of the switch and to close a window lift up the top part of the switch.

The driver's window has an auto-down feature for added convenience (at toll booths or drive-through restaurants, for example). This means you can open the window without holding the window switch in the "Down" position. Press the driver's window switch completely down and release it. To stop the window before it reaches the bottom, pull the switch up briefly.



79J031

The driver's door also has a lock switch for the passenger's window. When you push in the lock switch, the passenger's window can not be raised or lowered by operating any of the switches (2), (3), (4) or (5). To restore normal operation, release the lock switch by pushing the switch again.

⚠ WARNING

- You should always lock the passenger's window operation when there are children in the vehicle. Children can be seriously injured if they get part of their body caught by the window during operation.

(Continued)

⚠ WARNING

(Continued)

- To avoid injuring an occupant by window entrapment, be sure no part of the occupant's body such as hands or head is in the path of the electric windows when closing them.
- Always remove the ignition key when leaving the vehicle even if a short time. Also do not leave children alone in a parked vehicle. Unattended children could use the electric window switches and get trapped by the window.

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

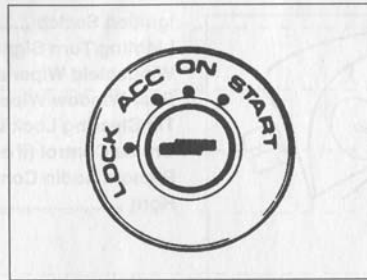
STEERING COLUMN CONTROLS



65D611

⚠ WARNING
To avoid possible injury, do not operate controls by reaching through the steering wheel.

Ignition Switch



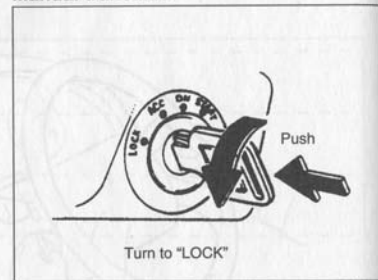
60B041

The ignition switch has the following four positions:

LOCK

This is the normal parking position. It is the only position in which the key can be removed.

Manual transaxle



60A055

• Manual transaxle vehicles

You must push in the key to turn it to the "LOCK" position. It locks the ignition, and prevents normal use of the steering wheel after the key is removed.


• Automatic transaxle vehicles

The gearshift lever must be in the "P" (Park) position to turn the key to the "LOCK" position. It locks the ignition and prevents normal use of the steering wheel and gearshift lever.

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

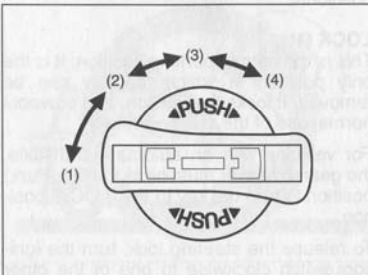
VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

STEERING COLUMN CONTROLS

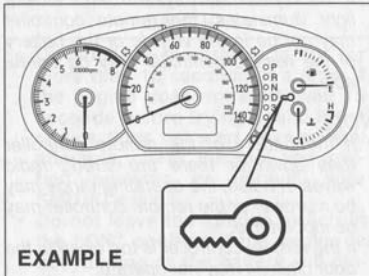


60A300S

Vehicle With Keyless Start System



80JC010



EXAMPLE

80J037

ACC
Accessories such as the radio can operate, but the engine is off.

ON
This is the normal operating position. All electrical systems are on.

START
This is the position for starting the engine using the starter motor. The key should be released from this position as soon as the engine starts.

Ignition key reminder
A buzzer sounds intermittently to remind you to remove the ignition key if it is in the ignition switch when the driver's door is opened.

The ignition switch can be operated without using an ignition key when the remote controller is in an area of the vehicle other than the rear luggage area. To turn the ignition switch, first push in the switch.

NOTE:
You must push in the ignition switch to turn it from the "LOCK" position to the "ACC" position. To return to the "LOCK" position from the "ACC" position, turn the ignition switch counterclockwise while pushing in the switch.

If the keyless start system blue indicator light illuminates on the instrument cluster, you can turn the ignition switch. If the red indicator light illuminates, you can not turn the ignition switch.

NOTE:

- The ignition switch can be turned to the "ACC" position when the keyless start system blue indicator light illuminates. The blue indicator light will illuminate for several seconds when you push in the ignition switch and then will turn off to protect the system. In this case, you must release the ignition switch and push it in again to illuminate the blue indicator light.

3-2

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2008	MAKE	Suzuki
MODEL	SX4	BODY STYLE	5-Door MPV
NHTSA NO.	C80500	VIN	JS2YB413485100278
TEST DATE:	06/23/08		

STEERING COLUMN CONTROLS

- If the keyless start system red indicator light illuminates, the remote controller may not be in the vehicle or the battery of the remote controller may be unreliable.

NOTE:

- If the battery of the remote controller runs down or there are strong radio waves or noise, the operating range may be narrower or the remote controller may be inoperative.
- If the remote controller is too close to the door glass, it may not operate.
- The ignition switch may not turn when the remote controller is on the instrument panel, in the glove box, in the door pocket, in the sun visor or on the floor.

CAUTION

The remote controller is a sensitive electronic instrument. To avoid damaging the remote controller:

- Do not expose it to impacts, moisture or high temperature such as by leaving it on the dashboard under direct sunlight.
- Keep the remote controller away from magnetic objects such as a television.

You can also turn the ignition switch by inserting the ignition key into the slot.

The ignition switch has the following four positions:

LOCK (1)

This is the normal parking position. It is the only position in which the key can be removed. It locks the ignition, and prevents normal use of the steering wheel.

For vehicles with an automatic transaxle, the gearshift lever must be in the "P" (Park) position to turn the key to the "LOCK" position.

To release the steering lock, turn the ignition switch clockwise to one of the other positions. If you have trouble turning the ignition switch to unlock the steering, try turning the steering wheel slightly to the right or left while turning the switch.

NOTE:

You must push the ignition switch in to turn it to the "ACC" position. Also you must push the ignition switch in to return it to the "LOCK" position.

ACC (2)

Accessories such as the radio can operate, but the engine is off.

ON (3)

This is the normal operating position. All electrical systems are on.

START (4)

This is the position for starting the engine using the starter motor. The switch should be released from this position as soon as the engine starts.

Ignition switch reminder

(When using the keyless start system)
A buzzer sounds intermittently to remind you to return the ignition switch to the "LOCK" position if it is in the "ACC" position when the driver's door is opened.

Ignition key reminder

(When using the ignition key)
A buzzer sounds intermittently to remind you to remove the ignition key if it is in the ignition switch when the driver's door is opened.