

REPORT NUMBER 110-STF-08-002

# SAFETY COMPLIANCE TESTING FOR FMVSS NO. 110 TIRE SELECTION AND RIMS

SUZUKI MOTOR CORPORATION  
2008 SUZUKI SX4 AWD  
FOUR-DOOR PASSENGER CAR  
NHTSA NO. C80500

U.S. DOT SAN ANGELO TEST FACILITY  
131 COMANCHE TRAIL, BUILDING 3527  
GOODFELLOW AFB, TEXAS 76908



November 9, 2007

FINAL REPORT

PREPARED FOR

U. S. DEPARTMENT OF TRANSPORTATION  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION  
ENFORCEMENT  
OFFICE OF VEHICLE SAFETY COMPLIANCE  
400 SEVENTH STREET, SW  
ROOM 6115 (NVS-220)  
WASHINGTON, D.C. 20590

This publication is distributed by the National Highway Traffic Safety Administration in the interest of information exchange. 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.

Prepared By: Doris Beebe

Approved By: [Signature]

Accepted By: Theresa M. Saewitz

Acceptance Date: 11/9/2007

1. Report No. 110-STF-08-002	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle  Final Report of FMVSS 110 Compliance Testing of 2008 Suzuki SX4 AWD Four-door Passenger Car, NHTSA No. C80500		5. Report Date November 9, 2007	
		6. Performing Organization Code  STF	
7. Author(s)  Jack Stewart, Junior Systems Analyst		8. Performing Organization Report #  STF-DOT-08-110-002	
9. Performing Organization Name and Address  U.S. DOT San Angelo Test Facility 131 Comanche Trail, Building 3527 Goodfellow AFB, Texas 76908		10. Work Unit No. (TRAIS)	
		11. Contract or Grant No.	
12. Sponsoring Agency Name and Address  U.S. DOT San Angelo Test Facility 131 Comanche Trail, Building 3527 Goodfellow AFB, Texas 76908		13. Type of Report and Period Covered  Final Test Report October 11 and October 12, 2007	
		14. Sponsoring Agency Code  NVS-220	
15. Supplementary Notes			
16. Abstract Compliance tests were conducted on the subject 2008 Suzuki SX4 AWD four-door passenger car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-110P-02 for the determination of FMVSS 110 compliance. Test failures identified were as follows: NONE.			
17. Key Words  Compliance Testing Safety Engineering FMVSS 110		18. Distribution Statement  Copies of this report are available from:  NHTSA Technical Information Services NPO-411 1200 New Jersey Avenue, S.E. Washington, DC 20590 Email: <a href="mailto:tis@dot.gov">tis@dot.gov</a>	
19. Security Classification (of this report)  UNCLASSIFIED	21. Number of Pages  41	22. Price	
20. Security Classification (of this page)  UNCLASSIFIED			

## TABLE OF CONTENTS

SECTION	PAGE
1 Purpose of Compliance Test .....	1
2 Test Procedure and Discussion of Results .....	2
3 Test Data .....	3
4 Test Equipment List and Calibration Information .....	16
5 Photographs .....	17
Figure	
5.1 ¾ Frontal View from Left Side of Vehicle	
5.2 ¾ Rear View from Right Side of Vehicle	
5.3 Vehicle Certification Label	
5.4 Vehicle Placard	
5.5 Tire Showing Brand	
5.6 Tire Showing Model	
5.7 Tire Showing Size, Load Index and Speed Symbol	
5.8 Tire Showing Construction	
5.9 Tire Showing Max Load Rating and Max Inflation Pressure	
5.10 Tire Showing Serial Number	
5.11 Rim Contour for Full Width of Cross Section	
5.12 Rim Showing Size	
5.13 Rim Showing Type Designation and DOT Symbol	
5.14 Right Front Rim Showing Manufacture Date	
5.15 Left Rear Rim Showing Manufacture Date	
5.16 Rim Markings	
5.17 Vehicle Front Seat Ballasted for Maximum Load	
5.18 Vehicle Rear Seat Ballasted for Maximum Load	
5.19 Rear of Vehicle Shown Ballasted for Cargo	
5.20 Vehicle on Weight Scales	

## SECTION 1

### INTRODUCTION

#### 1.1 PURPOSE OF COMPLIANCE TEST

A 2008 Suzuki SX4 AWD four-door passenger car was tested to determine if the vehicle was in compliance with the requirements of the standard. All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Test Procedure TP-110P-02, dated January 10, 2006.

#### 1.2 TEST VEHICLE

The test vehicle was a 2008 Suzuki SX4 AWD four-door passenger car. Nomenclatures applicable to the test vehicle are:

A. Vehicle Identification Number: JS2YB413485100278

B. NHTSA No.: C80500

C. Manufacturer: Suzuki Motor Corporation

D. Manufacture Date: 06/2007

#### 1.3 TEST DATE

The test vehicle was tested October 11 and October 12, 2007.

## SECTION 2

### TEST PROCEDURE AND SUMMARY OF RESULTS

#### 2.1 TEST PROCEDURE

Prior to test, the test vehicle was inspected for completeness, systems operability and appropriate fuel and liquid levels, i.e., oil and coolant. The vehicle was then photographically documented. The right front and left rear wheels were removed from the vehicle and the tires were dismounted from the rims. The tires were inspected and identifying data was obtained. Pertinent information on the tires and rims were photographed.

Subsequent events included weighing the vehicle to establish delivered curb weight and the distribution of weight on the front and rear axles and each wheel position. Vehicle was ballasted to Normal Load weight, Full Occupant Load, and Maximum Vehicle Load weight. At each step of the ballasting procedure, data was recorded. Ballast was photographically documented for Maximum Vehicle Load weight. The vehicle maximum load on each wheel was measured. Data from each tire furnished with the vehicle were recorded. The vehicle tire placard was photographed and checked for compliance to location, format, and information requirements. Right front and left rear rims were measured from flange to flange, and rims markings were photographically documented. The owner's manual was checked for all required information on placard, tire loading, and general tire and loading parameters.

#### 2.2 SUMMARY OF RESULTS

The data indicate compliance of the Suzuki SX4 with all requirements tested

SECTION 3

TEST DATA

## DATA SUMMARY SHEET

VEHICLE MAKE/MODEL/BODY STYLE: 2008 Suzuki SX4 AWD four-door passenger car

VEHICLE NHTSA NO.: C80500 VIN: JS2YB413485100278

VEHICLE TYPE: Four-door passenger car DATE OF MANUFACTURE: 06/2007

LABORATORY: US DOT San Angelo Test Facility

### PASSENGER CAR REQUIREMENTS

**PASS/FAIL**

#### General (Data Sheet 2)

The vehicle is equipped with tires that meet the requirements of S109. (S110, S4.1(a))

PASS

#### Tire Load Limits (Data Sheet 5)

The vehicle maximum load on the tire shall not be greater than the maximum load rating as marked on the sidewall of the tire. (S110, S4.2.1)

PASS

The vehicle normal load on the tire is not be greater than the high speed performance test load specified in S5.5 of S109. (S110, S4.2.2)

PASS

#### Placard and Tire Inflation Pressure Label (Data Sheets 4 and 5)

The placard and tire inflation pressure label (if provided) are affixed and located correctly, and display the information and format required. (S110, S4.3)

PASS

No inflation pressure other than the maximum permissible inflation pressure may be shown on the placard and, if any, tire inflation pressure label unless as required. (S110, S4.3.4)

PASS

#### Rim (Data Sheet 3)

Each rim is constructed to the dimensions of a rim specified for the application. (S110, S4.4.1(b))

PASS

#### Owner's Manual (Data Sheet 7)

Owner's manual or other document has discussion of Vehicle Placard Loading and Tires. (575.6 (a) (4))

PASS

Owner's manual includes exact statement relating to "Steps for Determining Correct Load Limits." (575.6(a)(5))

PASS



**DATA SHEET 1**  
**TEST VEHICLE INFORMATION/RECEIVING INSPECTION**

VEHICLE MAKE/MODEL/BODY STYLE: 2008 Suzuki SX4 AWD four-door passenger car

VEHICLE NHTSA NUMBER: C80500 TEST DATE: October 11, 2007

VIN:: JS2YB413485100278 MANUFACTURE DATE: 06/2007

GVWR: 1,725 kg (3,803 lbs) GAWR(front): 940 kg (2,072 lbs)

GAWR(rear): 840 kg (1,852 lbs)

SEATING POSITIONS: FRONT 2 MID N/A REAR 3

ODOMETER READING AT START OF TEST: 155.0 km (96.3 mi)

ENGINE DATA: 4 Cylinders 2.0 Liters            Cubic Inches

TRANSMISSION DATA: X Automatic            Manual 4 No. of Speeds

FINAL DRIVE DATA:            Rear Drive            Front Drive X 4 Wheel Drive

**CHECK APPROPRIATE BOXES FOR INSTALLED VEHICLE EQUIPMENT:**

<input checked="" type="checkbox"/>	Air Conditioning	<input checked="" type="checkbox"/>	Traction Control	<input checked="" type="checkbox"/>	Clock
<input checked="" type="checkbox"/>	Tinted Glass	<input checked="" type="checkbox"/>	Tachometer	<input checked="" type="checkbox"/>	Roof Rack
<input checked="" type="checkbox"/>	Power Steering	<input checked="" type="checkbox"/>	Cruise Control	<input checked="" type="checkbox"/>	Console
<input checked="" type="checkbox"/>	Power Windows	<input checked="" type="checkbox"/>	Rear Window Defroster	<input checked="" type="checkbox"/>	Driver Air Bag
<input checked="" type="checkbox"/>	Power Door Locks	<input type="checkbox"/>	Sun Roof or T-Top	<input checked="" type="checkbox"/>	Passenger Air Bag
<input type="checkbox"/>	Power Seat(s)	<input checked="" type="checkbox"/>	Tilt Steering Wheel	<input checked="" type="checkbox"/>	Side Curtain Air Bag(s)
<input checked="" type="checkbox"/>	Power Brakes	<input checked="" type="checkbox"/>	Stereo	<input checked="" type="checkbox"/>	Front Disc Brakes
<input checked="" type="checkbox"/>	Antilock Brake System	<input type="checkbox"/>	Telephone	<input checked="" type="checkbox"/>	Rear Disc Brakes
<input type="checkbox"/>	Navigation System	<input type="checkbox"/>	Trailer Hitch	<input type="checkbox"/>	Other -

REMARKS: None

RECORDED BY: Jack R. Stewart

DATE: October 11, 2007

APPROVED BY: Kenneth H. Yates

**DATA SHEET 2  
VEHICLE TIRE IDENTIFICATION**

VEHICLE MAKE/MODEL/BODY STYLE: 2008 Suzuki SX4 AWD four-door passenger car

VEHICLE NHTSA NO. C80500 VIN: JS2YB413485100278

LABORATORY: US DOT San Angelo Test Facility TEST DATE: October 11, 2007

All tires on the vehicle (excluding the spare) are the same size: ( X ) YES ( ) NO

Spare tire is the same size as all other tires: ( ) YES ( X ) NO

<b>Tire Sidewall</b>	<b>Right Front</b>	<b>Left Rear (If different)</b>	<b>Spare Tire (If different)</b>
Manufacturer and Model	<u>Bridgestone Turanza EL400</u>	<u></u>	<u>Maxxis</u>
Tire Size Designation	<u>P205/60R16</u>	<u></u>	<u>T135/90D16</u>
Load Index/Speed Symbol	<u>91H</u>	<u></u>	<u>102M</u>
Maximum Inflation Pressure	<u>300 kPa (44 psi)</u>	<u></u>	<u>420 (60 psi)</u>
Maximum Load Rating	<u>615 kg (1,356 lbs)</u>	<u></u>	<u>850 kg (1,874 lb)</u>
Tread/Traction/Temperature	<u>300/A/A</u>	<u></u>	<u>N/A</u>
Tires Have "DOT" Markings	<u>Yes</u>	<u></u>	<u>Yes</u>

Serial Number: Right Front EL20JFL1907 Left Front EL20JFL1907

Right Rear EL20JFL1907 Left Rear EL20JFL1907

Spare UYPDABC1707

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Jack R. Stewart

DATE: October 11, 2007

APPROVED BY: Kenneth H. Yates

**DATA SHEET 3  
VEHICLE RIM IDENTIFICATION**

VEHICLE MAKE/MODEL/BODY STYLE: 2008 Suzuki SX4 AWD four-door passenger car

VEHICLE NHTSA NO. C80500 VIN: JS2YB413485100278

LABORATORY: US DOT San Angelo Test Facility TEST DATE: October 11, 2007

**Rim Markings (if available):**

**Right Front**

**Left Rear**

Manufacturer's Name, Symbol or Trademark Suzuki ZN Suzuki ZN

Rim Size 16X6J 16X6J

Date of Manufacture 070306 070307

Does Rim contain "DOT" symbol? (YES/NO) Yes Yes

Other Rim Markings See Figures 5.13 and 5.16

Rim Inspection Comments: None

Tire Inspection Comments: None

<b>Rim Size:</b>	<b>Tire Size</b>	<b>Measured Rim Width</b>	<b>Measured Rim Diameter</b>
Right Front Wheel	<u>P205/60R16</u>	<u>6 in (15.2 cm)</u>	<u>16 in (40.6 cm)</u>
Left Rear Wheel	<u>P205/60R16</u>	<u>6 in (15.2 cm)</u>	<u>16 in (40.6 cm)</u>

Does stamped rim size (if available) agree with the measured rim size?

Right front rim (X)YES ( )NO Left rear rim: (X)YES ( )NO

Installed rims are suitable for installed tires? (X)YES ( )NO

Reference document: 2007 Tire and Rim Association Yearbook

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: Refer to Figures 5.13 and 5.16 for additional rim markings.

RECORDED BY: Jack R. Stewart

DATE: October 11, 2007

APPROVED BY: Kenneth H. Yates

## DATA SHEET 4 (1 of 2) VEHICLE PLACARD, AND TIRE INFLATION PRESSURE LABEL

VEHICLE MAKE/MODEL/BODY STYLE: 2008 Suzuki SX4 AWD four-door passenger car

VEHICLE NHTSA NO. C80500 VIN: JS2YB413485100278

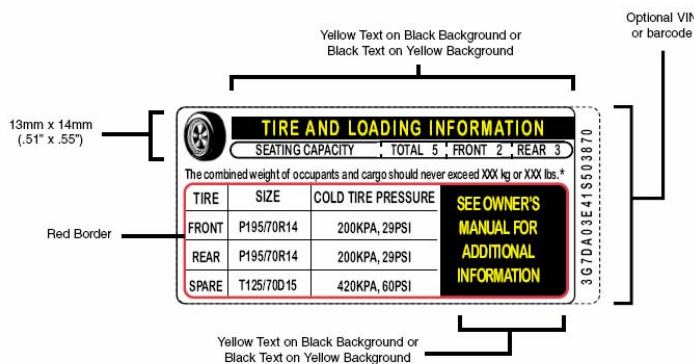
LABORATORY: US DOT San Angelo Test Facility TEST DATE: October 12, 2007

### Identification of Vehicle Labeling

	(Yes/No)	Location	PASS/FAIL
1. Certification Label	Yes	Driver's side B pillar	Not applicable
2. Vehicle Placard*	Yes	Driver's side B pillar	PASS
3. Tire Inflation Pressure Label*	N/A		

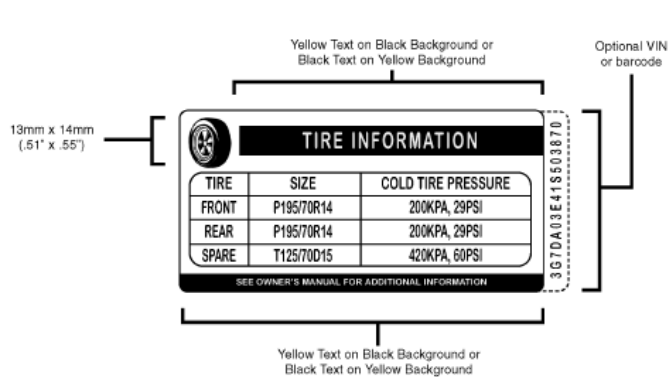
\* Labels are to be affixed to the driver's side B-pillar - otherwise refer to FMVSS 110 requirements.

### Vehicle Placard



**FIGURE 1B  
(70 FR 14425)**

### Tire Inflation Pressure Label



**FIGURE 2B  
(70 FR 14426)**

#### Labeling Notes:

1. Tire size and pressure can be omitted from the Vehicle Placard if same data is displayed on a Tire Inflation Pressure Label.
2. The Alphanumeric Identifier or Barcode, is optional. It can be located vertically, along the right edge or the left edge of the placard or the label, or horizontally, along the bottom edge of the placard or the label.
3. Tire size can include the tire load range identification symbol ("XL" or "reinforced", "B", "C", "D", "E", or "F"), the load index number, and the speed rating symbol, located immediately to the right of the tire size designation.
4. The tire "SIZE" heading can be replaced with "ORIGINAL TIRE SIZE" or "ORIGINAL SIZE."
5. The "SPARE" tire heading can be replaced with "SPARE TIRE."
6. For full size spare tires, the recommended cold tire inflation pressure can be replaced with "SEE ABOVE".
7. If no spare tire is provided, the word "NONE" is to replace the manufacturer's cold tire inflation pressure.

**Vehicle Placard** has the exact color and format as specified in the above figure and text is in English language. ( X )YES ( )NO

**DATA SHEET 4 (2 of 2)**  
**VEHICLE PLACARD, AND TIRE INFLATION PRESSURE LABEL**

**Vehicle Placard** and, if provided, **Tire Inflation Pressure Label** are permanently affixed.  
( X )YES ( )NO

**Vehicle Placard** information:

Combined weight of occupants and cargo 370 kg (815 lbs)

Seating Capacity: Total 5 Front 2 Rear 3

Is the number of belted seating positions the same as the labeled seating capacity?  
( X )YES ( )NO

Is the tire size and pressure provided? ( X )YES ( )NO

**Vehicle Placard** or **Tire Inflation Pressure Label** tire information:

Tire size: Front P205/60R16 Rear P205/60R16

Tire Inflation Pressure: Front 230 kPa (33 psi) Rear 230 kPa (33 psi)

Are the sizes of the installed tires the same as the sizes of the labeled tires?  
( X )YES ( )NO

Is the labeled cold tire inflation pressure equal to or less than the sidewall labeled maximum cold tire inflation pressure?

Front axle: ( X )YES ( )NO Rear axle: ( X )YES ( )NO

DATA INDICATES COMPLIANCE:

PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Jack R. Stewart

DATE: October 12, 2007

APPROVED BY: Kenneth H. Yates

**DATA SHEET 5 (1 of 4)**  
**CURB WEIGHT, NORMAL LOAD WEIGHT & MAXIMUM VEHICLE WEIGHT**

VEHICLE MAKE/MODEL/BODY STYLE: 2008 Suzuki SX4 AWD four-door passenger car

VEHICLE NHTSA NO. C80500 VIN: JS2YB413485100278

LABORATORY: US DOT San Angelo Test Facility TEST DATE: October 12, 2007

Full Fluid Levels: Fuel Full Coolant Full Other Fluids\* Full

\* Transmission, windshield washer, power steering fluid, & engine oil

Tire Pressures: LF 230.0 kPa (33.4 psi) LR 230.0 kPa (33.4 psi)  
RF 230.0 kPa (33.4 psi) RR 230.0 kPa (33.4 psi)

**A. MEASURED CURB WEIGHT WITH INSTALLED OPTIONS AND ACCESSORIES**

LF 417 kg (919 lb) LR 266 kg (587 lb)  
RF 405 kg (893 lb) RR 266 kg (586 lb)  
Front Axle 822 kg (1,812 lb) Rear Axle 532 kg (1,173 lb)  
Total Vehicle 1,354 kg (2,985 lb)

**B. MEASURED VEHICLE NORMAL LOAD WEIGHT**

(1) Seating Capacity from Vehicle Placard = 5

(2) Normal Load Number of Occupants (Table in Section 10) 3

Occupant Distribution: Front Seat 2 Second Seat 1

(3) Total Normal Occupant Load 204 kg (450 lb)  
[# of occupants x 68 KG per occupant]

(4) Measured Normal Load on Axles

LF 467 kg (1,029 lb) LR 318kg (701 lb)  
RF 454 kg (1,000 lb) RR 320kg (705 lb)  
Front Axle 921 kg (2,029 lb) Rear Axle 638 kg (1,406 lb)

**DATA SHEET 5 (2 of 4)**  
**CURB WEIGHT, NORMAL LOAD WEIGHT & MAXIMUM VEHICLE WEIGHT**

(5) Calculated Vehicle Normal Load on the Tire

Front Tires [measured front axle normal load/2] = 460 kg (1,015 lbs)

Rear Tires [measured rear axle normal load/2] = 319 kg (703 lbs)

(6) High Speed Test Load From FMVSS 109 (S5.5)

	Front Axle	Rear Axle
Installed Tire Size	<u>P205/60R16</u>	<u>P205/60R16</u>
Max. Load Rating on Sidewall	<u>615 kg (1,356 lbs)</u>	<u>615 kg (1,356 lbs)</u>
High Speed Test Load (88% of sidewall max. load rating)	<u>541 kg (1,193 lbs)</u>	<u>541 kg (1,193 lbs)</u>

Vehicle Normal Load on the Tire must not be greater than the High Speed Test Load

		PASS/FAIL
[B.(5)<B.(6)]	Front Tires	<u>PASS</u>
	Rear Tires	<u>PASS</u>

**C. MEASURED VEHICLE WEIGHT WITH FULL OCCUPANT LOAD**

(1) Seating Capacity from Placard:

Total 5      Front 2      Rear 3

(2) Full Occupant Load 340 kg (750 lbs)  
 [# of total occupants from C.(1) x 68 KG per occupant]

(3) Measured Vehicle Weight with Full Occupant Load

LF	<u>477 kg (1,051 lb)</u>	LR	<u>378 kg (833 lb)</u>
RF	<u>460 kg (1,014 lb)</u>	RR	<u>380 kg (837 lb)</u>
Front Axle	<u>937 kg (2,065 lb)</u>	Rear Axle	<u>758 kg (1,670 lb)</u>
Total Vehicle		<u>1,695 kg (3,735 lb)</u>	

**DATA SHEET 5 (3 of 4)**  
**CURB WEIGHT, NORMAL LOAD WEIGHT & MAXIMUM VEHICLE WEIGHT**

**D. MEASURED MAXIMUM VEHICLE LOAD WEIGHT**

(1)	Vehicle Capacity Weight (from placard)	<u>370 kg (815 lbs)</u>	
(2)	Full Occupant Load (from C.(2) above))	<u>340 kg (750 lbs)</u>	
(3)	Luggage/Cargo Load (subtract (2) from (1))	<u>30 kg (65 lbs)</u>	
(4)	Measured Vehicle Maximum Load on Axles		
	LF <u>477 kg (1,051 lb)</u>	LR <u>393 kg (866 lb)</u>	
	RF <u>460 kg (1,014 lb)</u>	RR <u>394 kg (868 lb)</u>	
	Front Axle <u>937 kg (2,065 lb)</u>	Rear Axle <u>787 kg (1,734 lb)</u>	
	Total Vehicle <u>1,724 kg (3,799 lb)</u>		

(5)	Calculated Vehicle Maximum Load on the Tire		
	Front Tires [measured front axle maximum load/2]=	<u>468 kg (1,033 lbs)</u>	
	Rear Tires [measured rear axle maximum load/2] =	<u>393 kg (867 lbs)</u>	

(6)	Tire Sidewall Maximum Load Ratings		
		Front	Rear
	Installed Tire Size	<u>P205/60R16</u>	<u>P205/60R16</u>
	Max. Load Rating on Sidewall	<u>615 kg (1,356 lbs)</u>	<u>615 kg (1,356 lbs)</u>

Vehicle Maximum Load on the tire must not be greater than the Maximum Load Rating Marked on the Tire Sidewall.

		PASS/FAIL
[D.(5)<D.(6)]	Front Tires	<u>PASS</u>
	Rear Tires	<u>PASS</u>



**DATA SHEET 5 (4 of 4)**  
**CURB WEIGHT, NORMAL LOAD WEIGHT & MAXIMUM VEHICLE WEIGHT**

- (7) Tire Load Ratings at Vehicle Placard or Tire Inflation Pressure Label Recommended Cold Tire Inflation Pressure.

	Front Axle	Rear Axle
Labeled Tire Size	<u>P205/60R16</u>	<u>P205/60R16</u>
Labeled Cold Inflation Pressure	<u>230 kPa (33 psi)</u>	<u>230 kPa (33 psi)</u>
Load Rating at This Pressure*	<u>603 kg (1,329 lbs)</u>	<u>603 kg (1,329 lbs)</u>

\*Reference used to obtain Load Rating: 2007 Tire & Rim Association Yearbook

Vehicle Normal Load on the Tire must not be greater than the Tire Load Rating at the Labeled Cold Tire Inflation Pressure.

		PASS/FAIL
[B.(5)<D.(7)]	Front Tires	<u>PASS</u>
	Rear Tires	<u>PASS</u>

Vehicle Maximum Load on the tire must not be greater than the Tire Load Rating at the Labeled Cold Tire Inflation Pressure.

		PASS/FAIL
[D.(5)<D.(7)]	Front Tires	<u>PASS</u>
	Rear Tires	<u>PASS</u>

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Jack R. Stewart

DATE: October 12, 2007

APPROVED BY: Kenneth H. Yates

**DATA SHEET 7 (1 of 2)**  
**OWNER'S MANUAL REQUIREMENTS**

VEHICLE MAKE/MODEL/BODY STYLE: 2008 Suzuki SX4 AWD four-door passenger car

VEHICLE NHTSA NO. C80500 VIN: JS2YB413485100278

LABORATORY: US DOT San Angelo Test Facility TEST DATE: September 15, 2007

**Owner's Manual Discusses:**

<b>Part 575.6(a) Paragraph</b>	<b>Required Discussion Topic</b>	<b>Discussed in Manual? (YES/NO)</b>	<b>Page Numbers</b>
(4)(i)	Tire labeling, including a description and explanation of each marking on the tires provided with the vehicle, and information about the location of the Tire Identification Number (TIN).	Yes	9-24
(4)(ii)	(A) Description and explanation of recommended cold tire inflation pressure.	Yes	9-26
	(B) Description and explanation of FMVSS 110 Vehicle Placard and Tire Inflation Pressure Label and their location(s).	Yes	9-26
	(C) Description and explanation of adverse safety consequences of under-inflation including tire failure.	Yes	9-27
	(D) Description and explanation for measuring and adjusting air pressure to achieve proper inflation.	Yes	9-26
(4)(iii)	Glossary of tire terminology, including "cold tire pressure," "maximum inflation pressure," and "recommended inflation pressure," and all non-technical terms defined in S3 of FMVSS 110 & 139.	Yes	9-32
(4)(vi)	Tire care, including maintenance and safety practices.	Yes	9-27
(4)(v)	(A) Description and explanation of locating and understanding load limit information, total load capacity, seating capacity, towing capacity, and cargo capacity.	Yes	9-33, 34
	(B) Description and explanation for calculating total and cargo load capacities with varying seating configurations including quantitative examples showing/illustrating how the vehicle's cargo and luggage capacity decreases as the combined number and size of occupants increases.	Yes	9-34
	(C) Description and explanation for determining compatibility of tire and vehicle load capabilities.	Yes	9-34
	(D) Description and explanation of adverse safety consequences of overloading on handling and stopping and on tires.	Yes	9-33

**DATA SHEET 7 (2 of 2)**  
**OWNER'S MANUAL REQUIREMENTS**

**The following statement, in the English language, is provided verbatim in the Owner's Manual. Reference Part 575.6(a)(5)                      YES ( X )    NO (   )**

Steps for Determining Correct Load Limit --

- (1) Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
- (2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- (3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
- (4) The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400-750 (5x150) = 650 lbs.)
- (5) Determine the combined weight of the luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
- (6) If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

DATA INDICATES COMPLIANCE:

PASS/FAIL:   PASS  

REMARKS:   In Step (5), the second 'the' is omitted from the owner's manual statement.  

RECORDED BY:   Jack R. Stewart  

DATE:   October 11, 2007  

APPROVED BY:   Kenneth H. Yates

## SECTION 4

## TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

TABLE 1 – EQUIPMENT INFORMATION LIST

<b>EQUIPMENT</b>	<b>DESCRIPTION</b>	<b>MODEL/ SERIAL NO</b>	<b>CAL. DATE</b>	<b>NEXT CAL. DATE</b>
PLATFORM SCALE (BALLAST)	HOWE RICHARDSON	MODEL #6401 SERIAL #0181- 5509-26	8/14/2007	8/14/2008
AIR PRESSURE GAUGE	ASHCROFT GENERAL PURPOSE DIGITAL GAUGE	MODEL #D1005PS 02L 100 PSI SERIAL #20017398- 01	12/20/07	12/20/2008
FLOOR SCALES (VEHICLE)	INTERCOMP SW DELUXE SCALES	PART #100156 SERIAL #27032382	8/14/2007	8/14/2008

SECTION 5  
PHOTOGRAPHS



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.1  
¾ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.2  
¾ REAR FROM RIGHT SIDE OF VEHICLE

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. 110

FIGURE 5.3  
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 370 kg or 815 lbs.

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. 110

FIGURE 5.5  
TIRE SHOWING BRAND



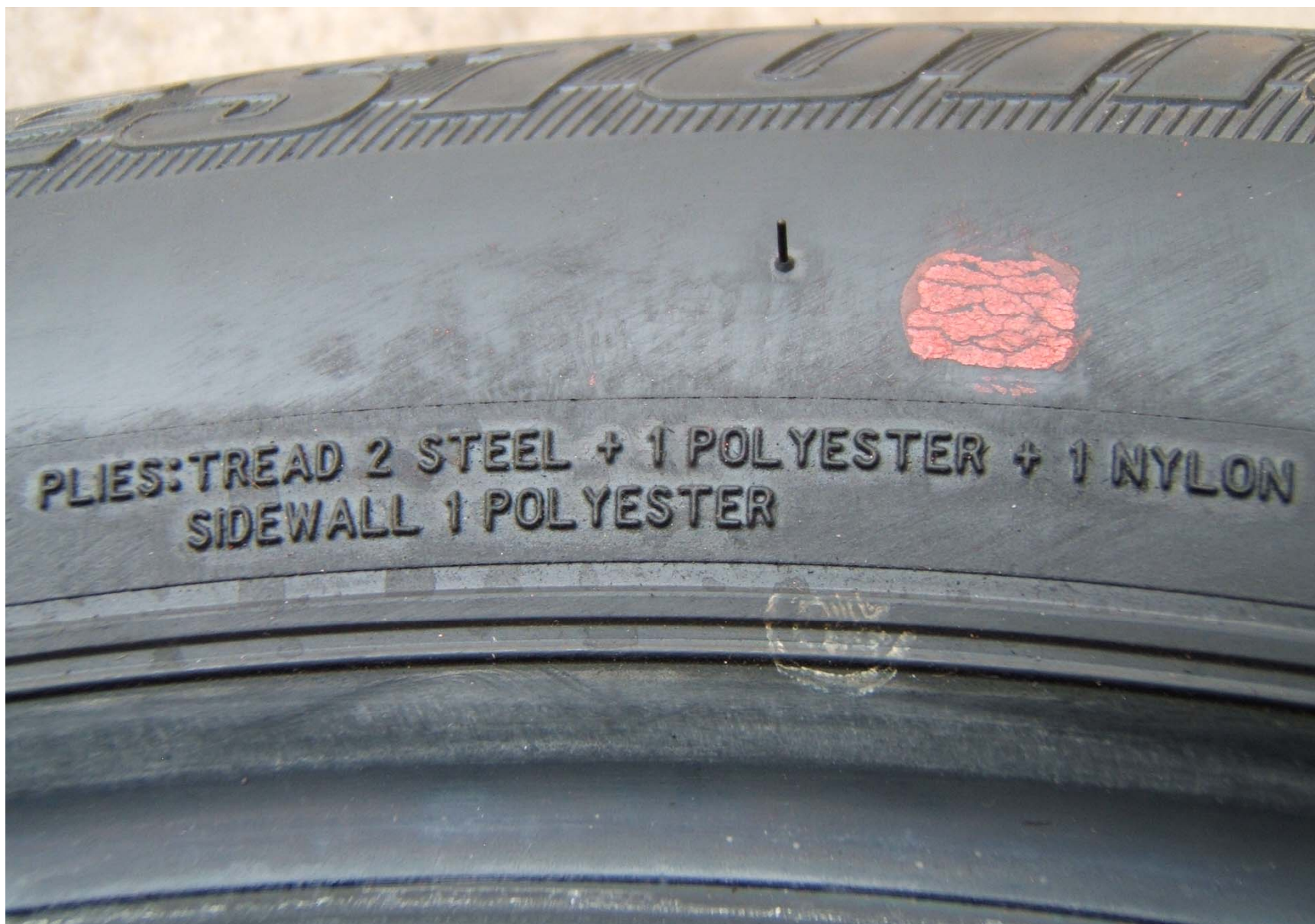
2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.6  
TIRE SHOWING MODEL



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.7  
TIRE SHOWING SIZE, LOAD INDEX, AND SPEED SYMBOL



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.8  
TIRE SHOWING CONSTRUCTION



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.9  
TIRE SHOWING MAX LOAD RATING AND MAX INFLATION PRESSURE



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.10  
TIRE SHOWING SERIAL NUMBER



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

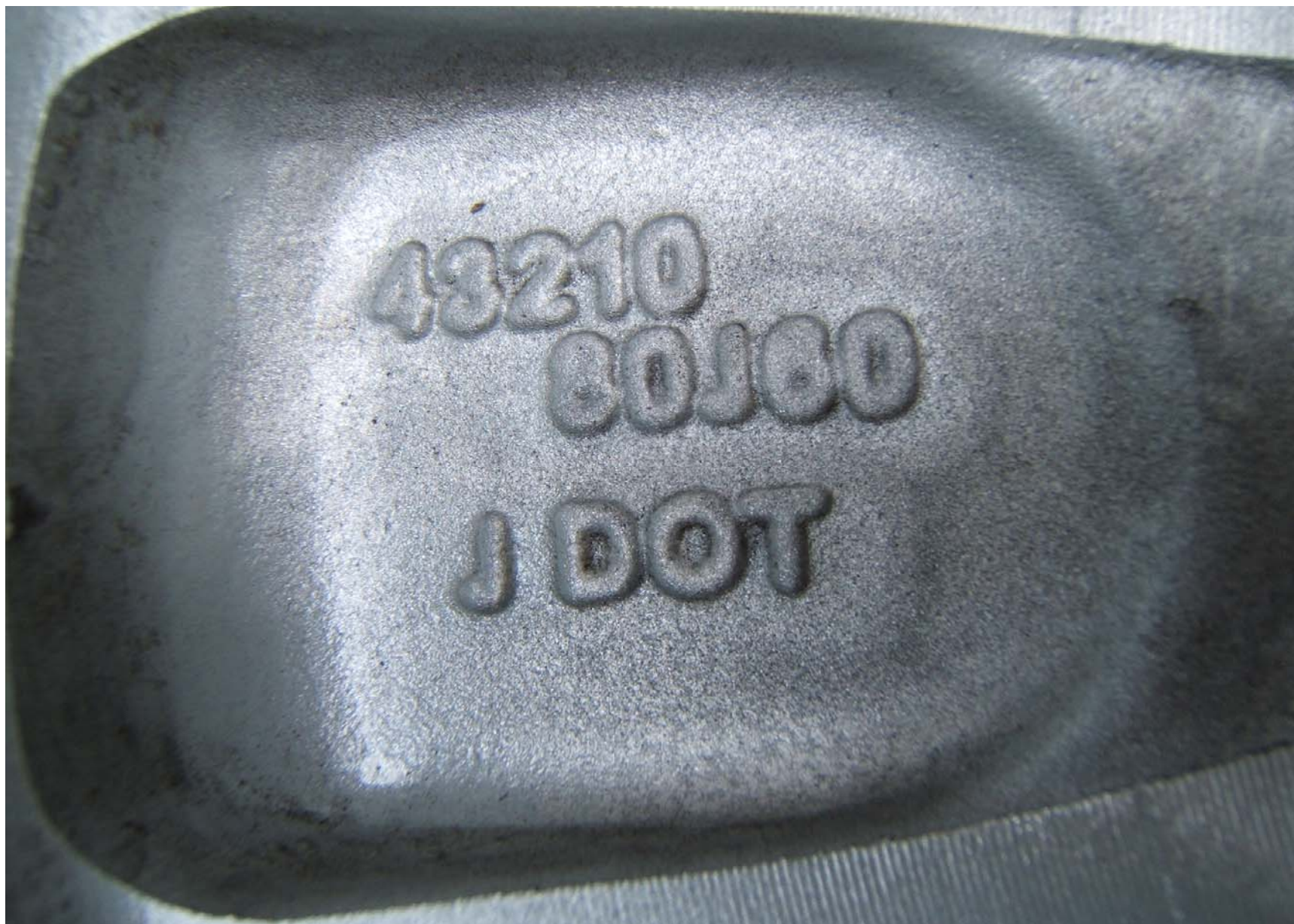
FIGURE 5.11  
RIM CONTOUR FOR FULL WIDTH OF CROSS SECTION





2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS 110

FIGURE 5.12  
RIM SHOWING SIZE



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS 110

FIGURE 5.13  
RIM SHOWING TYPE DESIGNATION AND DOT SYMBOL



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS 110

FIGURE 5.14  
RIGHT FRONT RIM SHOWING MANUFACTURE DATE



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS 110

FIGURE 5.15  
LEFT REAR RIM SHOWING MANUFACTURE DATE



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS 110

FIGURE 5.16  
RIM MARKINGS



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.17  
VEHICLE FRONT SEAT BALLASTED FOR  
MAXIMUM LOAD



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.18  
VEHICLE REAR SEAT BALLASTED  
FOR MAXIMUM LOAD



2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.19  
REAR OF VEHICLE SHOWN BALLASTED FOR CARGO





2008 SUZUKI SX4  
NHTSA NO. C80500  
FMVSS NO. 110

FIGURE 5.20  
VEHICLE ON WEIGHT SCALES