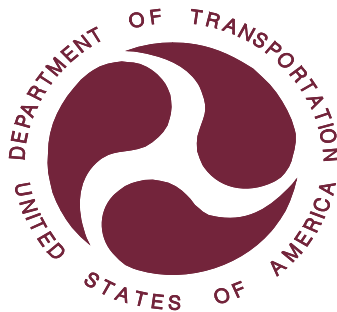


REPORT NUMBER 110-STF-11-003

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

**GENERAL MOTORS LLC  
2011 CHEVROLET CRUZE  
FOUR-DOOR PASSENGER CAR  
NHTSA NO. CB0100**

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



September 19, 2011

**FINAL REPORT**

**PREPARED FOR**

**U. S. DEPARTMENT OF TRANSPORTATION  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION  
ENFORCEMENT  
OFFICE OF VEHICLE SAFETY COMPLIANCE  
1200 NEW JERSEY AVENUE, S.E.  
WEST BUILDING, FOURTH FLOOR, 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: Ken A. H. Gale

Accepted By: John J. ...

Acceptance Date: 9/19/11

1. Report No. 110-STF-11-003	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle  Final Report of FMVSS NO. 110 Compliance Testing of 2011 Chevrolet Cruze Four-Door Passenger Car, NHTSA No. CB0100		5. Report Date September 19, 2011	
		6. Performing Organization Code  STF	
7. Author(s)  Jack Stewart, Junior Systems Analyst Todd P. Groghan, Safety Compliance Engineer Kenneth H. Yates, Safety Compliance Engineer		8. Performing Organization Report No.  STF-DOT-11-110-003	
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  United States Department of Transportation National Highway Traffic Safety Administration Office of Vehicle Safety Compliance, NVS 220 1200 New Jersey Avenue, SE Washington, DC 20590		13. Type of Report and Period Covered  Final Test Report March 12 and March 24, 2011	
		14. Sponsoring Agency Code  NVS-220	
15. Supplementary Notes			
16. Abstract Compliance tests were conducted on the subject 2011 Chevrolet Cruze four-door passenger car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-110P-03 for the determination of FMVSS NO. 110 compliance. Test failures identified were as follows: NONE.			
17. Key Words  Compliance Testing Safety Engineering FMVSS NO. 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> FAX: 202-493-2833	
19. Security Classification (of this report)  UNCLASSIFIED	21. Number of Pages  37	22. Price	
20. Security Classification (of this page)  UNCLASSIFIED			

## TABLE OF CONTENTS

SECTION	PAGE
1 Introduction .....	1
2 Test Procedure and Summary of Results .....	2
3 Test Data .....	3
4 Test Equipment List and Calibration Information .....	16
5 Photographs .....	17

### Figure

- 5.1 ¾ Front 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 and Model
- 5.6 Tire Showing Size, Load Index, and Speed Symbol
- 5.7 Tire Showing Max Load Rating and Max Inflation Pressure
- 5.8 Tire Showing Serial Number
- 5.9 Rim Contour for Full Width of Cross Section
- 5.10 Right Front Rim Showing Date of Manufacture, Other Rim Markings, Size, Letter Designation for Source of Published Dimensions, DOT Symbol, Manufacturer's Symbol, and Other Rim Markings
- 5.11 Right Front Rim Showing Other Rim Markings
- 5.12 Vehicle Front Seats Ballasted for Normal, Full, and Maximum Loads
- 5.13 Vehicle Rear Seat Ballasted for Normal Load
- 5.14 Vehicle Rear Seat Ballasted for Full and Maximum Loads
- 5.15 Vehicle Trunk Ballasted for Maximum Load
- 5.16 Vehicle on Weight Scales

## SECTION 1

### INTRODUCTION

#### 1.1 PURPOSE OF COMPLIANCE TEST

A 2011 Chevrolet Cruze passenger car was tested to determine if the vehicle was in compliance with the requirements of FMVSS No. 110. All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Test Procedure TP-110P-03, dated August 31, 2007.

#### 1.2 TEST VEHICLE

The test vehicle was a 2011 Chevrolet Cruze four-door passenger car. Nomenclatures applicable to the test vehicle are:

A. Vehicle Identification Number: 1G1PC5SH7B7171899

B. NHTSA Number: CB0100

C. Manufacturer: General Motors LLC

D. Manufacture Date: 01/2011

#### 1.3 TEST DATE

The test vehicle was tested March 12 and March 24, 2011.

## 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. Pertinent information on the tires and rims furnished with the vehicle was recorded and tires and rims were photographed.

The vehicle tire placard was photographed and checked for compliance to location, format, and information requirements. 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 weight, and Maximum Vehicle Load weight. At each step of the ballasting procedure, data was recorded. Ballast was photographically documented for the Normal, Full, and Maximum Vehicle Load weights. The tires and rims labeled and installed on the vehicle were verified to be appropriate for the loading and load ratings of the vehicle. 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 Chevrolet Cruze with all requirements tested.

SECTION 3  
TEST DATA

## DATA SUMMARY SHEET

VEHICLE MAKE/MODEL/BODY STYLE: 2011 Chevrolet Cruze four-door passenger car  
VEHICLE NHTSA NUMBER: CB0100 VIN: 1G1PC5SH7B7171899  
VEHICLE TYPE: passenger car DATE OF MANUFACTURE: 01/2011  
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 S139. (S110, S4.1)

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, S4.2.1.1)

PASS

The vehicle normal load on the tire is not greater than the value of 94 percent of the load rating at the vehicle manufacturer's recommended cold inflation pressure for that tire. (S110, S4.2.1.2)

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(a))

PASS

Vehicle rims retain deflated tires during a controlled brake application. (S110, S4.4.1(b))

See  
Remarks

#### Owner's Manual (Data Sheet 6)

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

REMARKS: The rim retention test required by FMVSS No.110, paragraph S4.4.1(b) was not executed on the subject Chevrolet Cruze.



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

VEHICLE MAKE/MODEL/BODY STYLE: 2011 Chevrolet Cruze four-door passenger car

VEHICLE NHTSA NUMBER: CB0100

TEST DATE: March 12, 2011

VIN: 1G1PC5SH7B7171899

MANUFACTURE DATE: 01/2011

GVWR: 1,847 kg (4,072 lb)

GAWR(front): 962 kg (2,120 lb)

GAWR(rear): 885 kg (1,952 lb)

SEATING POSITIONS: FRONT 2 MID N/A REAR 3

ODOMETER READING AT START OF TEST: 201 km (125 mi)

ENGINE DATA: 4 Cylinders 1.8 Liters        Cubic Inches

TRANSMISSION DATA: X Automatic        Manual 6 No. of Speeds

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

**INSTALLED VEHICLE EQUIPMENT:**

<input checked="" type="checkbox"/>	Air Conditioning	<input checked="" type="checkbox"/>	Traction Control	<input checked="" type="checkbox"/>	Clock
<input type="checkbox"/>	Tinted Glass	<input checked="" type="checkbox"/>	Tachometer	<input type="checkbox"/>	Roof Rack
<input checked="" type="checkbox"/>	Power Steering	<input type="checkbox"/>	Cruise Control	<input 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 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 type="checkbox"/>	Rear Disc Brakes
<input type="checkbox"/>	Navigation System	<input type="checkbox"/>	Trailer Hitch	<input type="checkbox"/>	Other -

REMARKS: None

RECORDED BY: Todd P. Groghan

DATE: March 12, 2011

APPROVED BY: Kenneth H. Yates

**DATA SHEET 2  
VEHICLE TIRE IDENTIFICATION**

VEHICLE MAKE/MODEL/BODY STYLE: 2011 Chevrolet Cruze four-door passenger car  
VEHICLE NHTSA NUMBER: CB0100 VIN: 1G1PC5SH7B7171899  
LABORATORY: US DOT San Angelo Test Facility TEST DATE: March 12, 2011

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</b> (If different)	<b>Spare Tire</b> (If different)
Manufacturer and Model	<u>Firestone FR710</u>	<u></u>	<u>Maxxis</u>
Tire Size Designation	<u>P215/60R16</u>	<u></u>	<u>T115/70R16</u>
Load Index/Speed Symbol	<u>94S</u>	<u></u>	<u>92M</u>
Maximum Inflation Pressure	<u>300 kPa (44 psi)</u>	<u></u>	<u>420 kPa (60 psi)</u>
Maximum Load Rating	<u>670 kg (1,477 lb)</u>	<u></u>	<u>630 kg (1,389 lb)</u>
Tread/Traction/Temperature	<u>560/B/B</u>	<u></u>	<u>N/A</u>
Tires Have "DOT" Markings	<u>Yes</u>	<u></u>	<u>Yes</u>

Serial Number: Right Front 8XX8CKD5010 Left Front 8XX8CKD5010  
Right Rear 8XX8CKD5010 Left Rear 8XX8CKD5010  
Spare UYPYABC4210

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Todd P. Groghan

DATE: March 12, 2011

APPROVED BY: Kenneth H. Yates

**DATA SHEET 3  
VEHICLE RIM IDENTIFICATION**

VEHICLE MAKE/MODEL/BODY STYLE: 2011 Chevrolet Cruze four-door passenger car

VEHICLE NHTSA NUMBER: CB0100 VIN: 1G1PC5SH7B7171899

LABORATORY: US DOT San Angelo Test Facility TEST DATE: March 12, 2011

**Rim Markings (if available):**

**Right Front**

**Left Rear**

Manufacturer's Name, Symbol or Trademark K4 – Hayes Lemmerz K4 – Hayes Lemmerz

Rim Size 16x6.5J 16x6.5J

Date of Manufacture 01 05 11 01 05 11

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

Other Rim Markings See pages 31 and 32

Rim Inspection Comments: None

**Rim Size:**

	Tire Size	Measured Rim Width	Measured Rim Diameter
Right Front Wheel	<u>P215/60R16</u>	<u>16.5 cm (6.5 in)</u>	<u>40.6 cm (16.0 in)</u>
Left Rear Wheel	<u>P215/60R16</u>	<u>16.5 cm (6.5 in)</u>	<u>40.6 cm (16.0 in)</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: 2010 Tire & Rim Association Yearbook

DATA INDICATES COMPLIANCE: PASS/FAIL: PASS

REMARKS: None

RECORDED BY: Todd P. Groghan

DATE: March 12, 2011

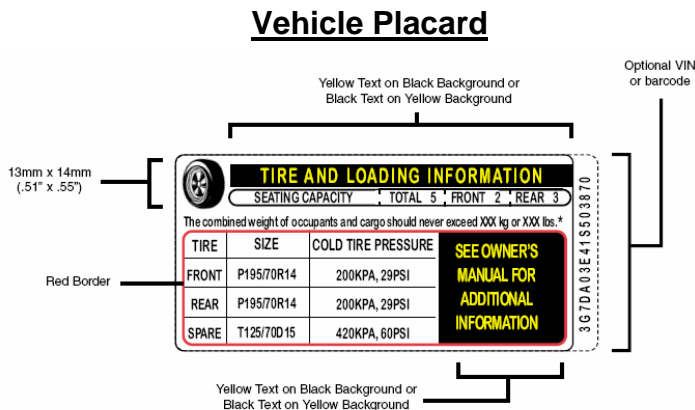
APPROVED BY: Kenneth H. Yates

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

VEHICLE MAKE/MODEL/BODY STYLE: 2011 Chevrolet Cruze four-door passenger car  
 VEHICLE NHTSA NUMBER: CB0100 VIN: 1G1PC5SH7B7171899  
 LABORATORY: US DOT San Angelo Test Facility TEST DATE: March 12, 2011

**Identification of Vehicle Labeling**

	Yes/No	Location	PASS/FAIL
1. Certification Label	<u>Yes</u>	<u>Driver's side B-pillar</u>	<u>PASS</u>
2. Vehicle Placard	<u>Yes</u>	<u>Driver's side B-pillar</u>	<u>PASS</u>
3. Tire Inflation Pressure Label	<u>No</u>	<u></u>	<u></u>



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

**Vehicle Placard** has the exact color and format as specified in Figure 1 and text is in English language. ( X )YES ( )NO

**Vehicle Placard** is permanently affixed. ( X )YES ( )NO

**Vehicle Placard Information:**

Combined weight of occupants and cargo 408 kg (899 lb)

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

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

**Vehicle Placard Tire Information:**

Tire size:                  Front     P215/60R16              Rear     P215/60R16    

Tire Inflation Pressure:    Front   240 kPa (35 psi)            Rear   240 kPa (35 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:     Todd P. Groghan    

DATE:     March 12, 2011    

APPROVED BY:     Kenneth H. Yates

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

VEHICLE MAKE/MODEL/BODY STYLE: 2011 Chevrolet Cruze four-door passenger car

VEHICLE NHTSA NUMBER: CB0100 VIN: 1G1PC5SH7B7171899

LABORATORY: US DOT San Angelo Test Facility TEST DATE: March 24, 2011

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

\* Transmission, windshield washer, brake, and engine oil.

Tire Pressures: LF 240 kPa (35 psi) LR 240 kPa (35 psi)  
RF 240 kPa (35 psi) RR 240 kPa (35 psi)

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

LF 446 kg (984 lb) LR 284 kg (626 lb)  
RF 420 kg (925 lb) RR 278 kg (612 lb)  
Front Axle 866 kg (1,909 lb) Rear Axle 562 kg (1,238 lb)  
Total Vehicle 1,428 kg (3,147 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 487 kg (1,073 lb) LR 345 kg (760 lb)  
RF 462 kg (1,018 lb) RR 338 kg (746 lb)  
Front Axle 949 kg (2,091 lb) Rear Axle 683 kg (1,506 lb)  
Total Vehicle 1,632 kg (3,597 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] = 475 kg (1,046 lb)

Rear Tires [measured rear axle normal load/2] = 342 kg (753 lb)

(6) Calculated 94% of tire load rating at recommended cold inflation pressure:

Load rating at recommend cold inflation pressure= 670 kg (1,477 lb)

94% of load rating = 630 kg (1,388 lb)

Vehicle Normal Load on the Tire must not be greater than 94% of Load Rating Value.

		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 lb)  
 [# of total occupants from C.(1) x 68 KG per occupant]

(3) Measured Vehicle Weight with Full Occupant Load:

LF 498 kg (1,099 lb)                      LR 401 kg (883 lb)

RF 474 kg (1,045 lb)                      RR 395 kg (870 lb)

Front Axle 972 kg (2,144 lb)              Rear Axle 796 kg (1,753 lb)

Total Vehicle 1,768 kg (3,897 lb)

**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): 408 kg (899 lb)

(2) Full Occupant Load (from C.(2)): 340 kg (750 lb)

(3) Luggage/Cargo Load (subtract (2) from (1)): 68 kg (149 lb)

(4) Measured Vehicle Maximum Load on Axles:

LF <u>494 kg (1,090 lb)</u>	LR <u>438 kg (965 lb)</u>
RF <u>470 kg (1,037 lb)</u>	RR <u>433 kg (954 lb)</u>
Front Axle <u>964 kg (2,127 lb)</u>	Rear Axle <u>871 kg (1,919 lb)</u>
Total Vehicle <u>1,835 kg (4,046 lb)</u>	

(5) Calculated Vehicle Maximum Load on the Tire:

Front Tires [measured front axle maximum load/2]= 482 kg (1,064 lb)

Rear Tires [measured rear axle maximum load/2] = 435 kg (960 lb)

(6) Tire Sidewall Maximum Load Ratings:

	Front	Rear
Installed Tire Size	<u>P215/60R16</u>	<u>P215/60R16</u>
Max. Load Rating on Sidewall	<u>670 kg (1,477 lb)</u>	<u>670 kg (1,477 lb)</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>P215/60R16</u>	<u>P215/60R16</u>
Labeled Cold Inflation Pressure	<u>240 kPa (35 psi)</u>	<u>240 kPa (35 psi)</u>
Load Rating at This Pressure	<u>670 kg (1,477 lb)</u>	<u>670 kg (1,477 lb)</u>
Reference used to obtain Load Rating: <u>2010 Tire &amp; Rim Association Yearbook</u>		

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: Front GAWR was exceeded on full and maximum loading weighings.

RECORDED BY: Todd P. Groghan

DATE: March 24, 2011

APPROVED BY: Kenneth H. Yates

**DATA SHEET 6 (1 of 2)**  
**OWNER'S MANUAL REQUIREMENTS**

VEHICLE MAKE/MODEL/BODY STYLE: 2011 Chevrolet Cruze four-door passenger car

VEHICLE NHTSA NUMBER: CB0100 VIN: 1G1PC5SH7B7171899

LABORATORY: US DOT San Angelo Test Facility TEST DATE: March 24, 2011

**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	10-44 – 10-46
(4)(ii)	(A) Description and explanation of recommended cold tire inflation pressure.	Yes	10-48
	(B) Description and explanation of FMVSS NO. 110 Vehicle Placard and Tire Inflation Pressure Label and their location(s).	Yes	9-12, 9-16, 10-50
	(C) Description and explanation of adverse safety consequences of under-inflation including tire failure.	Yes	10-50, 10-51
	(D) Description and explanation for measuring and adjusting air pressure to achieve proper inflation.	Yes	10-51
(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 NO. 110 & 139.	Yes	10-47 – 10-50
(4)(iv)	Tire care, including maintenance and safety practices.	Yes	10-56 – 10-58
(4)(v)	(A) Description and explanation of locating and understanding load limit information, total load capacity, seating capacity, towing capacity, and cargo capacity.	Yes	9-12
	(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	9-13 – 9-15
	(C) Description and explanation for determining compatibility of tire and vehicle load capabilities.	Yes	9-13
	(D) Description and explanation of adverse safety consequences of overloading on handling and stopping and on tires.	Yes	9-12

**DATA SHEET 6 (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:   None  

RECORDED BY:   Todd P. Groghan  

DATE:   March 12, 2011  

APPROVED BY:   Kenneth H. Yates

SECTION 4

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

<b>EQUIPMENT</b>	<b>DESCRIPTION</b>	<b>MODEL/ SERIAL NO</b>	<b>CAL. DATE</b>	<b>NEXT CAL. DATE</b>
FLOOR SCALES (VEHICLE & BALLAST)	INTERCOMP SW DELUXE SCALES	PART #100156 SERIAL #27032382	7/21/2010	7/21/2011
AIR PRESSURE GAUGE	ASHCROFT GENERAL PURPOSE DIGITAL GAUGE	MODEL #D1005PS 02L 100 PSI SERIAL #20017398- 01	12/17/2010	12/17/2011

SECTION 5  
PHOTOGRAPHS



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.1  
¾ FRONT VIEW FROM LEFT SIDE OF VEHICLE



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.2  
¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE



MFD BY GENERAL MOTORS LLC

DATE	GVWR	GAWR FRT	GAWR RR
01/11	1847 KG	962 KG	885 KG
	4072 LB	2120 LB	1952 LB



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

**1G1PC5SH7B7171899**

TYPE: PASS CAR





2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.4  
VEHICLE PLACARD



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.5  
TIRE SHOWING BRAND AND MODEL



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.6  
TIRE SHOWING SIZE, LOAD INDEX, AND SPEED SYMBOL



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.7  
TIRE SHOWING MAX LOAD RATING AND MAX INFLATION PRESSURE



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.8  
TIRE SHOWING SERIAL NUMBER



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.9  
RIM SHOWING TPMS SENDING UNIT AND RIM  
CONTOUR FOR FULL WIDTH OF CROSS SECTION



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

RIGHT FRONT RIM SHOWING DATE OF MANUFACTURE, OTHER RIM MARKINGS, SIZE, LETTER DESIGNATION FOR SOURCE OF PUBLISHED DIMENSIONS, DOT SYMBOL, AND OTHER RIM MARKINGS

FIGURE 5.10



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.11  
RIGHT FRONT RIM SHOWING OTHER RIM MARKINGS





2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.12  
VEHICLE FRONT SEATS BALLASTED FOR  
NORMAL, FULL, AND MAXIMUM LOADS



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.13  
VEHICLE REAR SEAT BALLASTED  
FOR NORMAL LOAD



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.14  
VEHICLE REAR SEAT BALLASTED  
FOR FULL AND MAXIMUM LOADS



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.15  
VEHICLE TRUNK  
BALLASTED FOR MAXIMUM LOAD



2011 CHEVROLET CRUZE  
NHTSA NO. CB0100  
FMVSS NO. 110

FIGURE 5.16  
VEHICLE ON WEIGHT SCALES