

120-TRC-04-003

**SAFETY COMPLIANCE TESTING FOR FMVSS 120
Tire Selection and Rims
for Motor Vehicles Other Than Passenger Cars**

General Motors Corporation
2004 Chevrolet Express
NHTSA No. C40111

TRANSPORTATION RESEARCH CENTER INC.
10820 State Route 347
East Liberty, Ohio 43319



Final Report Completed: March 31, 2004

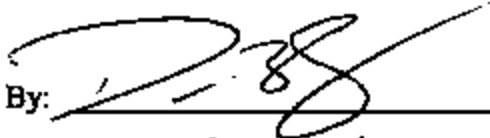
FINAL REPORT

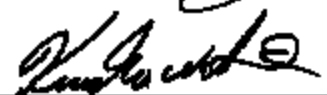
Prepared Under Contract No.: DTNH22-01-C-21025

**U.S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Enforcement
Office of Vehicle Safety Compliance
400 Seventh Street, SW
Room 6111 (NVS-220)
Washington, DC 20590**

Prepared for the Department of Transportation, National Highway Traffic Safety Administration,
under Contract No. DTNH22-01-C-21025.

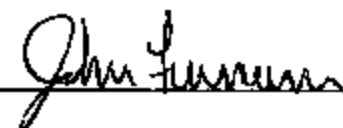
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Prepared By: 

Approved By: 

Approval Date: March 31, 2004

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Accepted By: 

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		6. Performing Organization Code TRC 20000113/4203	
7. Author(s) Jeff Sankey, Project Manager Dennis Grisez, Project Engineer		8. Performing Organization Report No. TRC-DOT-120-4-003	
9. Performing Organization Name and Address Transportation Research Center Inc. 10820 State Route 347 East Liberty, OH 43319		10. Work Unit No.	
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15. Supplementary Notes			
16. Abstract A test was conducted on a MY 2004 Chevrolet Express, NHTSA No. C40111, in accordance with FMVSS 120, "Tire selection and rims for vehicles other than passenger cars," and TP-120-03. The vehicle was weighed in the unloaded and fully loaded conditions and its tires, rims, and related information were checked. Test failures identified were as follows: None			
17. Key Words Compliance Testing Safety Engineering FMVSS 120		18. Distribution Statement Copies of this report are available from: NHTSA Technical Information Services (TIS) Room 5108 (NAD-40) 400 Seventh Street, SW Washington, D.C. 20590 Telephone No. (202) 366-2588	
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1.0 PURPOSE OF COMPLIANCE TEST

The purpose of this test report is to document the results of tests performed on an MY 2004 Chevrolet Express in accordance with the requirements stated in Federal Motor Vehicle Safety Standard (FMVSS) 120, "Tire Selection and Rims for Motor Vehicles Other Than Passenger Cars."

This standard establishes requirements to ensure that applicable vehicles are equipped with tires of adequate size and load rating and rims of appropriate size and type designation.

2.0 TEST PROCEDURE AND DISCUSSION OF RESULTS

Testing of the MY 2004 Chevrolet Express was conducted at Transportation Research Center Inc. (TRC Inc.) in accordance with NHTSA TP-120-03, dated April 10, 2000. The vehicle mounted tires and rims were surveyed to ensure that the rims were suitable for the tires and that the tires inflated to the maximum inflation pressure stated on the tire sidewall were appropriate for the vehicle's certified Gross Axle Weight Ratings (GAWR). The vehicle certification and tire information labeling was surveyed to ensure that the vehicle manufacturer's recommended rims were suitable for the recommended tires, and that the recommended tires inflated to the recommended inflation pressures stated on the labeling were appropriate for the vehicle's certified GAWRs. The vehicle was ballasted with weight to simulate first, the vehicle loaded with eight occupants, and second, the vehicle loaded to the vehicle's certified Gross Vehicle Weight Rating (GVWR), to determine if axle or tire overloading could occur.

The vehicle tires and rims appear to be suitable and appropriate to carry vehicle loads as required by FMVSS 120.

3.0 COMPLIANCE TEST DATA

FMVSS No. 120 – TEST DATA SUMMARY

Test Laboratory: Transportation Research Center; Contract No.: DTNH22-01-C-21025

Vehicle Make/Model: Chevrolet Express; Model Year: 2004

NHTSA No.: C40111; VIN: 1GNFG15XX41117979; Vehicle Type: MPV

Incomplete Veh. Make/Model: Not applicable

Designated Seating Capacity: 8; Engine Size: 4.3L

Dealer Installed Optional Accessories: N/A

REQUIREMENTS	PASS/FAIL
TIRE AND RIM SELECTION (S5.1)	
Installed tires and rims are suitable for vehicle	PASS
RIM MARKING (S5.2)	
Rims contain all required markings of proper dimensions	PASS
LABEL INFORMATION (5.9)	
Vehicle has proper certification/tire information label	PASS
Label tires at recommended inflation pressure and rims are suitable for vehicle	PASS
WEIGHT DISTRIBUTION (49 CFR 567 Certification)	
Vehicle loaded with occupants and cargo does not exceed GVWR	PASS
RESULTS:	
Test data indicates compliance with FMVSS 120	PASS

REMARKS:

3.0 COMPLIANCE TEST DATA

FMVSS 120 – DATA SHEET 1 (1 of 2)

Vehicle Make/Model: Chevrolet Express

NHTSA No.: C40111; Test Date: February 25, 2004

Tire Type: Passenger Car- X; Other- _____

Are the tire and rim sizes the same for all axles, including the spare? Yes

Does the tire size fitted to the axles appear on the certification or tire label? Yes

Describe if "No": _____

Number of axles: 2; Dual tires on rear axle(s)? No

TIRE DATA FROM SIDEWALL	
	RIGHT FRONT
Manufacturer	Uniroyal
Brand	Laredo
Tire size	P235/75R16
Maximum Tire Load Rating (KG)	1030
De-rated* Tire Load Rating (KG)	936
Maximum Inflation Pressure (KPA)	280
Tire has DOT symbol? (Yes/No)	Yes
DOT serial number	DOT AP3DLJU03203

* If a passenger car tire is installed on a multipurpose passenger vehicle (MPV), truck or bus, the tire's load rating shall be reduced by dividing by 1.10.

MOUNTED TIRE VS. AXLE RATING COMPARISON (at sidewall maximum inflation pressure)		
	FRONT AXLE	REAR AXLE
A. GAWR (KG) from certification label	1633	1814
B. (No. of tires) x (de-rated tire load rating (KG) from above table)	1872	1872
Is "B" equal to or greater than "A" ? (Yes/No)	Yes	Yes

3.0 COMPLIANCE TEST DATA

FMVSS 120 – DATA SHEET 1 (2 of 2)

RIM MARKINGS	
	RIGHT FRONT
A. Source of published dimensions (letter designation)	T
B. Rim size	16 x 6.5 J
C. Does rim contain DOT symbol? (Yes/No)	Yes
D. Manufacturer's name, symbol or trademark (copy format)	HAB
E. Date of manufacture or symbol	081203
Do items A-C appear on weather side of rim? (Yes/No)	Yes
Letter height (not less than 3mm)	Yes
Lettering (Impressed or embossed)	Impressed
Are all rim markings legible? (Yes/No)	Yes
Do all markings comply with requirements? (Yes/No)	Yes
Rims are suitable for tires on vehicle? (Yes/No)	Yes

RIM MEASUREMENTS	
	RIGHT FRONT
Rim width (mm)	165
Rim diameter (mm)	406
Rim measurements same as rim markings? (Yes/No)	Yes

TEST RESULTS (Pass/Fail): Pass

REMARKS:

Right rear tire DOT Serial Number: DOT AP3DLJUU3203
Left front tire DOT Serial Number: DOT AP3DLJUU3203
Left rear tire DOT Serial Number: DOT AP3DLJUU3203

RECORDED BY: [Signature] ; DATE: 2-25-04

APPROVED BY: [Signature] ; DATE: 3/31/04

3.0 COMPLIANCE TEST DATA

FMVSS NO. 120 – DATA SHEET 2 (1 of 2)

Vehicle Make/Model: Chevrolet Express

NHTSA No.: C40111; Test Date: February 25, 2004

Label Design: Combined Certification and Tire Label Yes

Separate Tire Information Label No

Label is in English (Yes/No) Yes

Block capital letters and numbers are not less than
2.4 mm in height (Yes/No) Yes

Location of Label(s) on the vehicle: Driver's side door.

TIRE AND RIM DATA FROM LABEL (for each GAWR/GVWR)		
GVWR: <u>3266</u> KG	FRONT AXLE	REAR AXLE
Tire size	P235/75R16XL	P235/75R16XL
Rim size	16 x 6.5 J	16 x 6.5 J
Recommended inflation pressure (KPA)	240	260
* Are labeled rims suitable for labeled tires? (Yes/No)	Yes	Yes
* Referenced load rating at label recommended inflation pressure (KG)	950	1000
** De-rated tire load rating (KG)	864	909

* Referenced source for tire/rim match and load rating data: 2004 Yearbook – The Tire and Rim Association, Inc.

** If a passenger car tire is installed on a multipurpose passenger vehicle (MPV), truck or bus, the tire's load rating shall be reduced by dividing by 1.10.

3.0 COMPLIANCE TEST DATA

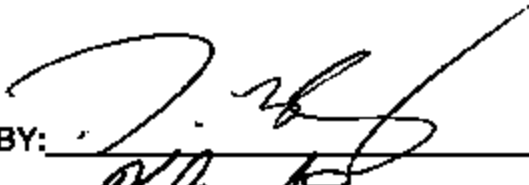
FMVSS No. 120 – DATA SHEET 2 (2 of 2)

CERTIFICATION/TIRE LABEL MAXIMUM CAPACITY COMPARISON		
GVWR: <u>3266</u> KG	FRONT AXLE	REAR AXLE
A. GAWR (KG) from certification label	C. <u>1633</u>	D. <u>1814</u>
B. (No. of tires) x (*Tire load rating (KG))	1728	1818
Is "B" equal to or greater than "A" ? (Yes/No)	Yes	Yes
Is "C" plus "D" equal to or greater than GVWR?	Yes	

*From tire load rating on previous page.

TEST RESULTS (Pass/Fail): Pass

REMARKS:

RECORDED BY: ; DATE: 2-25-04

APPROVED BY: ; DATE: 3/21/04

3.0 COMPLIANCE TEST DATA

FMVSS NO. 120 – DATA SHEET 3 (1 of 2)

Vehicle Make/Model: Chevrolet Express

NHTSA No.: C40111 ; Test Date: February 26, 2004

Full Fluid levels:

Fuel Full ; Coolant Full ; Other Fluids Full

Tire pressures: LF 240 KPA (35 PSI) RF 240 KPA (35 PSI)
LR 260 KPA (38 PSI) RR 260 KPA (38 PSI)

Total Occupant Load: 544 KG (8 adult occupants)
[# of designated seating positions x 68 KG per adult]

Manufacturer's Rated Cargo Load: See REMARKS

Certified GVWR - Measured UVW - Total Occupant Load = Rated Cargo Load
3266 KG - 2400 KG - 544 KG = 322 KG

Describe placement of cargo: Placed over rear axle in cargo area towards right side.

ITEM	Tire or Vehicle Rating* (KG)	CONDITION 1 UVW (KG)		CONDITION 2 Cond. 1 + occupants (KG)		CONDITION 3 Cond. 2 + cargo (KG)	
		Measured	Overload	Measured	Overload	Measured	Overload
Left Front Tire	864	644	NO	771	NO	767	NO
Right Front Tire	864	640	NO	730	NO	730	NO
Front Axle**	1633	1284	NO	1501	NO	1497	NO
Left Rear Tire	909	567	NO	735	NO	875	NO
Right Rear Tire	909	549	NO	708	NO	894	NO
Rear Axle**	1814	1116	NO	1443	NO	1769	NO
Total Veh.**	3266	2400	NO	2944	NO	3266	NO

NOTES:

* Vehicle and axle weight ratings (GVWR & GAWR) are located on the vehicle certification label plate. Vehicle tire load ratings are based upon the inflation pressure specified on the certification label plate for each respective axle, as determined from the appropriate tire manufacturer's specification table.

** Measured axle and vehicle loads are determined by summing the respective measured tire loads.

3.0 COMPLIANCE TEST DATA

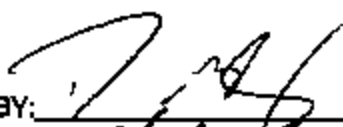
FMVSS NO. 120 – DATA SHEET 3 (2 of 2)

TEST RESULTS (Pass/Fail): Pass

REMARKS:

The vehicle Owner's Manual discusses vehicle loading in a section entitled "Loading Your Vehicle" (refer to section 6 of this test report). In this section of the Owner's Manual there is a discussion of a Tire and Loading Information placard that is available on some vehicles. This vehicle is not equipped with such a placard. The following "Certification/Tire Label" section of the Owner's Manual defines GVWR and GAWR and explains that these ratings should never be exceeded. The Owner's Manual informs the consumer that a weight scale must be used to determine actual front and rear axle loads. The Owner's Manual warns that loads should be spread out front to rear and side to side.

For the maximum load test conducted (condition 3) on the subject vehicle, an occupant and cargo load of 866 kg was used to obtain a total vehicle load equal to the vehicle's GVWR. With a full occupant load of 544 kg (8 occupants at 68 kg each), the cargo load was 322 kg. For this loading analysis the cargo load was placed right of center in the rear cargo area to offset the left-side bias of the passenger load. With a full occupant load it is possible that concentrating the cargo load on the extreme left side of the rear cargo area could result in an overload of the left rear tire.

RECORDED BY: 

DATE: 2-26-01

APPROVED BY: 

DATE: 3/3/01

4.0 TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

<u>Instrument</u>	<u>Manufacturer</u>	<u>Model/Serial#</u>	<u>Calibration</u>	<u>Next Calibration</u>
Scales	Toledo	5318823-5KD	2-24-04	5-01-05
Steel Ruler	GEI	2020A/C8809	3-14-02	3-15-04
Digital InclInometer	Schaevitz	RXS5-70-B	8-21-03	8-23-04

FMVSS 120 - Scale Calibration Sheet



Print in ink or type

VEHICLE SCALE TEST REPORT

Customer: <u>Transportation Research Center</u>	Service Ticket No: <u>172420</u>
Address: <u>10825 42nd E</u>	Customer Unit ID No: <u>5318523-SKD</u>
City: <u>East Liberty</u>	State/Prov: <u>OH</u> Zip/Postal Code: <u></u>

Make of Scale Platform: <u>Mettler Toledo</u>	Model No: <u>7562</u>	Serial No: <u></u>	Scale Capacity: <u>240,000</u>	Graduation Size: <u>10</u>
Make of Indicator: <u>Mettler Toledo</u>	Model No: <u>Logixframe</u>	Serial No: <u>5318523-SKD</u>	CLC: <u>80000</u>	Pounds ☒ Kilograms ☐

SECTION TESTING (Test 1) A shift test in which the test load is applied over individual sections of the scale. This test is conducted to disclose the weighing performance of the individual sections, since scale loads weighed are not always distributed evenly over all main load supports.

1 st LOAD	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SECTION 7	SECTION 8
AS FOUND	17000	17000	17000	16990	17000	17010	17000	17000
AS SEALED								
2 nd LOAD	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SECTION 7	SECTION 8
AS FOUND	25000	25000	25000	24990	25000	25010	25000	25000
AS SEALED								

Scale Model/Indicator (Reference to Platform): Section 9

125000

16990

LOAD TESTING (Test 2)

Normal basic performance test in which observations are made as increments of test load are successively added to the load involving elements of the scale.

TEST LOAD	AS FOUND SCALE INDICATION	Error	Allowable Tolerance	PASS/FAIL	AS LEFT SCALE INDICATION
0 Load	0	0	5	Pass	
9000	9000	0	2		
17000	17000	0	4		
MAX 25000	25000	0	5		
0 Load	0	0	5	Pass	

STRAIN-LOAD TEST (Test 3) The test of a scale beginning with the scale under load and applying known test weights to determine accuracy over a portion of the weighing range. The scale errors for a strain load test are the errors observed for the known test loads only.

	LEFT TO RIGHT			RIGHT TO LEFT		
	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6
Weight of empty truck	32320					
Amount of test weights	25000					
Indication, truck & weights	57320					
Error on test weights only	0.00					

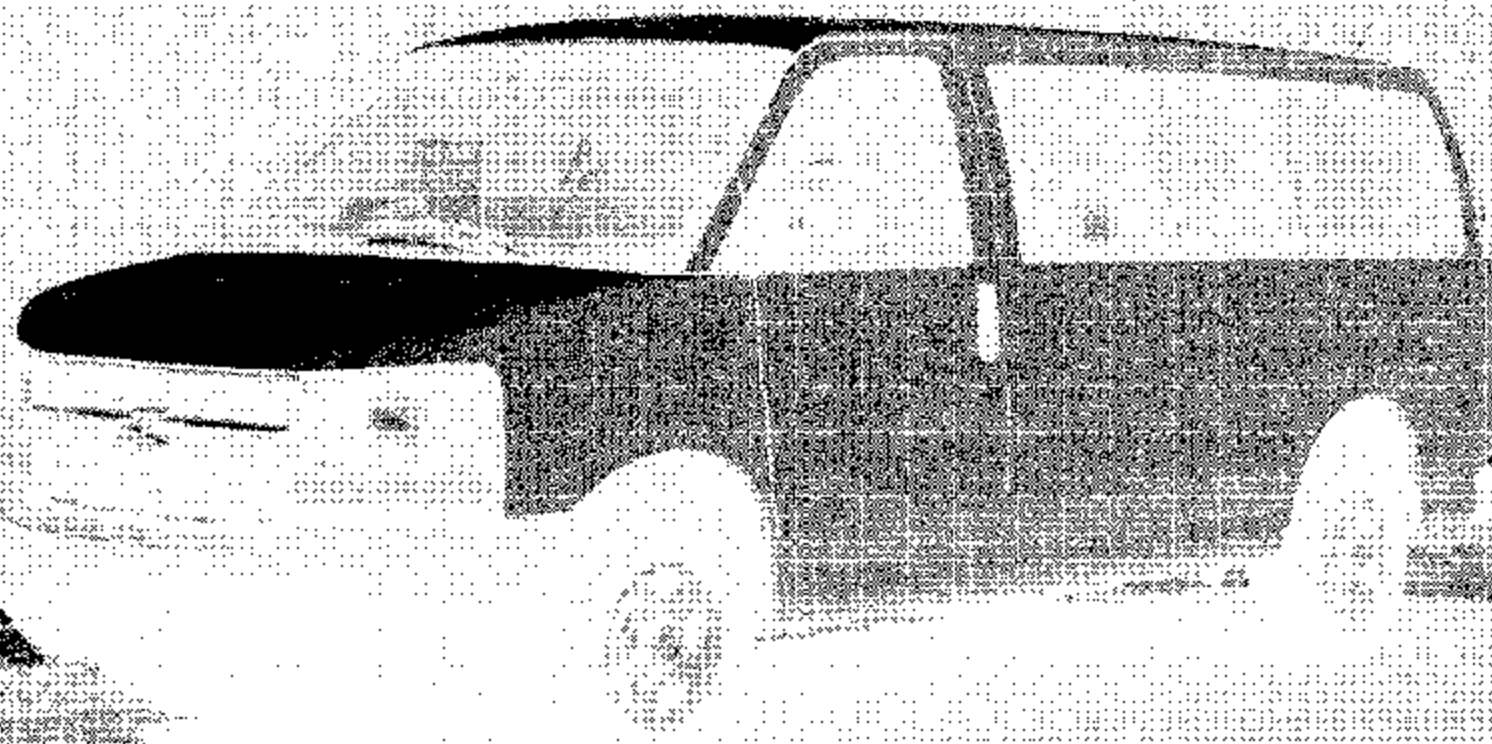
Weight Identification Numbers: <u>H1-H20 & Buggy</u>	Weights & Measures Certificate Number: <u>2802-349 & 2802-411</u>
Calibration Date: <u>6-24-04</u>	Next cal due: <u>5-2004</u>
Performed by: <u>[Signature]</u> Ohio state registration number: <u>7415-848</u>	

5.0 PHOTOGRAPHS

1. 3/4 Frontal View From Left Side of Vehicle
2. 3/4 Rear View From Right Side of Vehicle
3. Vehicle Certification & Tire Information Label
4. Right Front Tire Serial Number
5. Right Front Tire Load Ratings
6. Right Front Tire Size Designation
7. Right Front Tire Markings
8. Right Front Rim Markings
9. Right Front Rim Markings
10. TRC Weight Scales
11. Simulated Occupant Loading
12. Simulated Occupant Loading
13. Simulated Cargo Loading

2004 CHEVROLET
EXPRESS
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FEBRUARY 2004

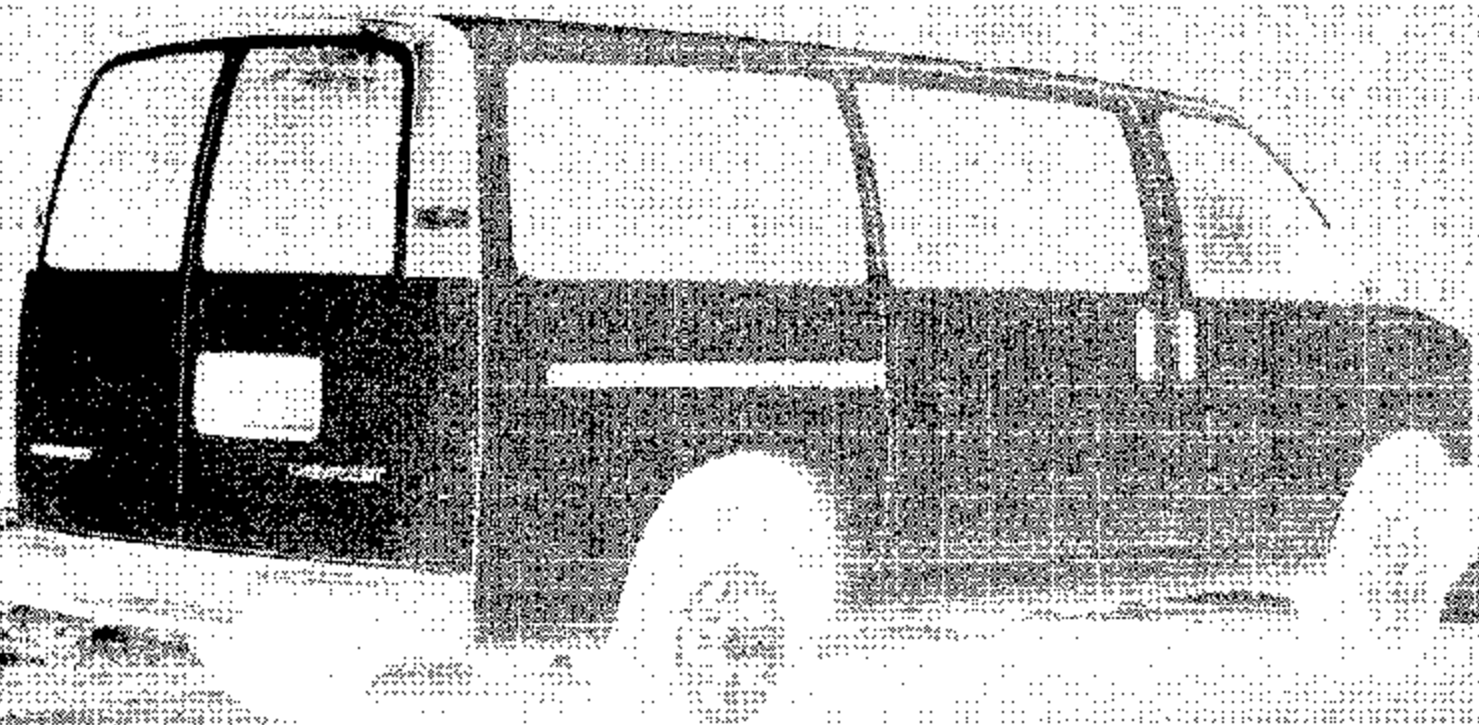
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¾ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE

2004 CHEVROLET
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¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE

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FEBRUARY 2004



2004 CHEVROLET
EXPRESS
NHTSA NO. C40111
FEBRUARY 2004

LA REDD

15

DOT A P 3 D L J U U 3 2 0 3

RIGHT FRONT TIRE SERIAL NUMBER

2004 CHEVROLET
EXPRESS
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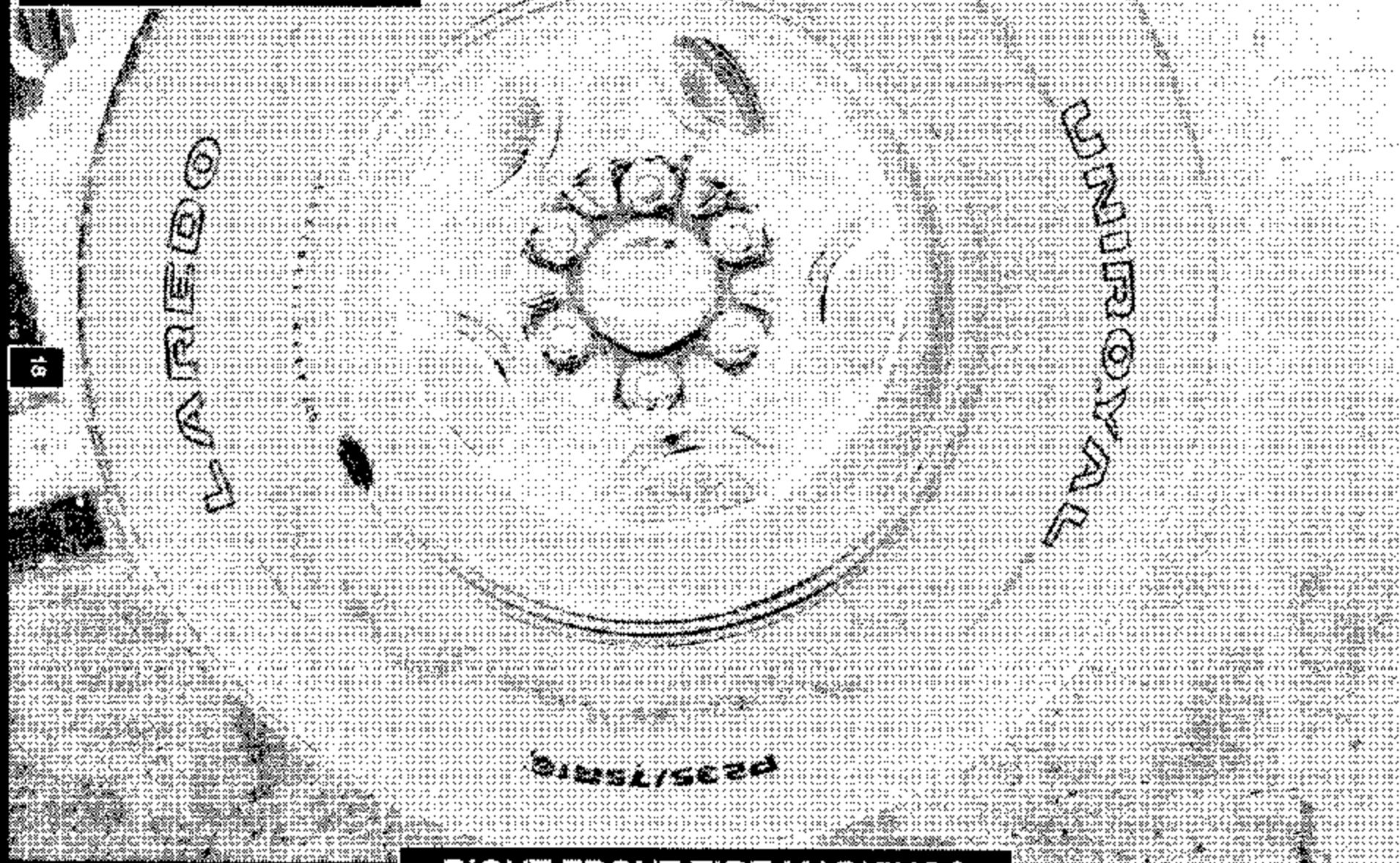
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P235/75R16

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RIGHT FRONT TIRE SIZE DESIGNATION

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RIGHT FRONT TIRE MARKINGS

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RIGHT FRONT RIM MARKINGS

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RIGHT FRONT RIM MARKINGS

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TRC WEIGHT SCALES

2004 CHEVROLET
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SIMULATED OCCUPANT LOADING

2004 CHEVROLET
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SIMULATED OCCUPANT LOADING

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SIMULATED CARGO LOADING

6.0 APPLICABLE PAGES OF OWNER'S MANUAL

Recreational Vehicle Towing

Recreational vehicle towing means towing your vehicle behind another vehicle — such as behind a motorhome. The two most common types of recreational vehicle towing are known as "dinghy towing" (towing your vehicle with all four wheels on the ground) and "dolly towing" (towing your vehicle with two wheels on the ground and two wheels up on a device known as a "dolly").

Notice: Towing an all-wheel-drive vehicle with all four wheels on the ground, or even with only two of its wheels on the ground, will damage drivetrain components. Do not tow an all-wheel-drive vehicle if any of its wheels will be on the ground.

Your vehicle was not designed to be towed with any of its wheels on the ground. If your vehicle must be towed, it should be placed on a platform trailer.

Loading Your Vehicle

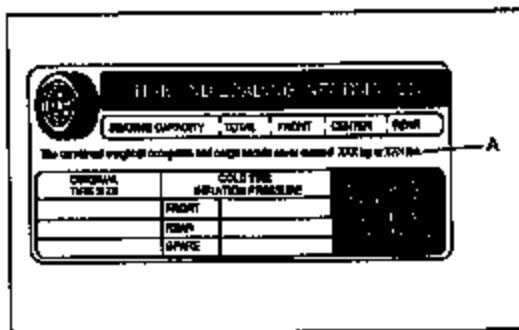
It is very important to know how much weight your vehicle can carry. This weight is called the vehicle capacity weight and includes the weight of all occupants, cargo and all nonfactory-installed options. Two labels on your vehicle show how much weight it may properly carry, the Tire and Loading Information label and the Certification/Tire label.

⚠ CAUTION:

Do not load your vehicle any heavier than the GVWR, or either the maximum front or rear GAWR. If you do, parts on your vehicle can break, and it can change the way your vehicle handles. These could cause you to lose control and crash. Also, overloading can shorten the life of your vehicle.

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Tire and Loading Information Label



A. Vehicle Capacity Weight

The Tire and Loading Information label is attached to the center pillar, near the driver's door latch. Vehicles without a center pillar will have the Tire and Loading Information label attached to the driver's door edge. This label lists the number of people that can be in your vehicle and the total weight it can carry. This weight is called the vehicle capacity weight.

The Tire and Loading Information label also tells you the size and recommended inflation pressure for the original equipment tires on your vehicle. For more information on tires and inflation see *Tires* on page 5-59 and *Inflation - Tire Pressure* on page 5-67.

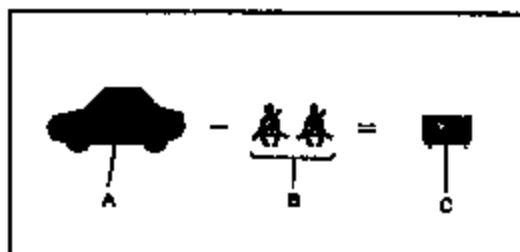
If your vehicle does not have the Tire and Loading Information label, the Certification/Tire label shows the tire size and recommended inflation pressures needed to obtain the Gross Vehicle Weight Rating (GVWR) and the Gross Axle Weight Rating (GAWR) for the front and rear axles. See "Certification/Tire Label" later in this section.

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6.0 APPLICABLE PAGES OF OWNER'S MANUAL

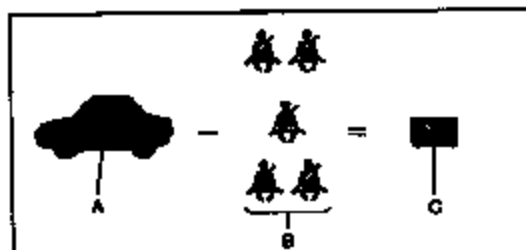
Steps for Determining Correct Load Limit

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX pounds" on your vehicle 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 kilograms or XXX pounds.
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 850 lbs. ($1400 - 750$ (5×150) = 850 lbs.).
5. Determine the combined weight of 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, the 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. See *Towing a Trailer* on page 4-37 for important information on towing a trailer, towing safety rules and trailering tips.



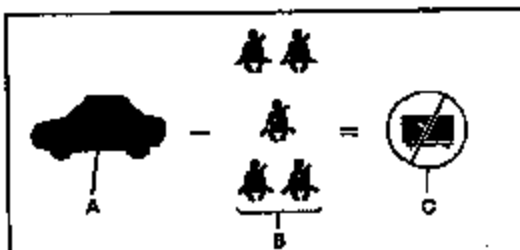
Example 1
Loading Your Vehicle

Item	Description	Total
A	Vehicle Capacity Weight for Example 1 =	1,000 lbs (453 kg)
B	Subtract Occupant Weight 150 lbs (68 kg) $\times 2 =$	300 lbs (136 kg)
C	Available Occupant and Cargo Weight =	700 lbs (317 kg)



Example 2
Loading Your Vehicle

Item	Description	Total
A	Vehicle Capacity Weight for Example 2 =	1,000 lbs (453 kg)
B	Subtract Occupant Weight 150 lbs (68 kg) $\times 5 =$	750 lbs (340 kg)
C	Available Cargo Weight =	250 lbs (113 kg)



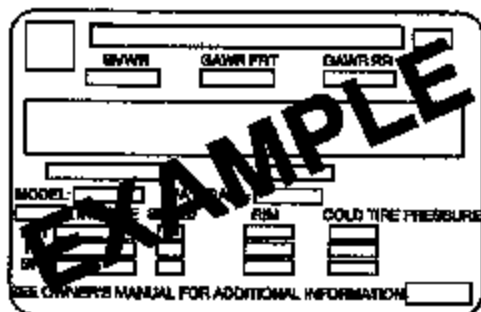
Example 3
Loading Your Vehicle

Item	Description	Total
A	Vehicle Capacity Weight for Example 3 =	1,000 lbs (453 kg)
B	Subtract Occupant Weight 200 lbs (91 kg) $\times 5 =$	1,000 lbs (453 kg)
C	Available Cargo Weight =	0 lbs (0 kg)

Refer to your vehicle's tire and loading information label for specific information about your vehicle's capacity weight and seating positions. The combined weight of the driver, passengers and cargo should never exceed your vehicle's capacity weight.

6.0 APPLICABLE PAGES OF OWNER'S MANUAL

Certification/Tire Label



The Certification/Tire label is found on the rear edge of the driver's door. The label shows the size of your original tires and the inflation pressures needed to obtain the gross weight capacity of your vehicle. This is called Gross Vehicle Weight Rating (GVWR). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo.

The Certification/Tire label also tells you the maximum weights for the front and rear axles, called Gross Axle Weight Rating (GAWR). To find out the actual loads on your front and rear axles, you need to go to a weigh station and weigh your vehicle. Your dealer can help you with this. Be sure to spread out your load equally on both sides of the centerline.

Never exceed the GVWR for your vehicle, or the GAWR for either the front or rear axle.

And, if you do have a heavy load, you should spread it out.

⚠ CAUTION:

Do not load your vehicle any heavier than the GVWR, or either the maximum front or rear GAWR. If you do, parts on your vehicle can break, and it can change the way your vehicle handles. These could cause you to lose control and crash. Also, overloading can shorten the life of your vehicle.