

120-TRC-04-001

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

Nissan Motor Co., LTD
2004 Nissan Quest 3.5 SE
NHTSA No. C45203

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



Final Report Completed: December 5, 2003

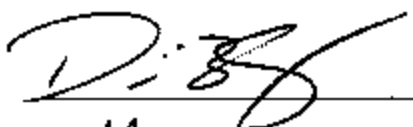
FINAL REPORT

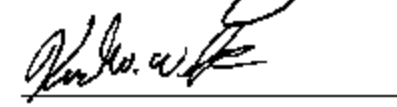
Prepared Under Contract No.: DTNH22-01-C-21025

**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.

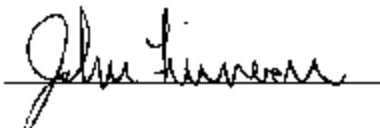
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Prepared By: 

Approved By: 

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				6. Performing Organization Code TRC 20000113/4201	
7. Author(s) Jeff Sankey, Project Manager Dennis Grisez, Project Engineer				8. Performing Organization Report No. TRC-DOT-120-4-001	
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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12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Enforcement Office of Vehicle Safety Compliance (NVS-220) 400 Seventh Street, SW, Room 6111 Washington, D.C. 20590				13. Type of Report and Period Covered Final test report November 25 to December 5, 2003	
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15. Supplementary Notes					
16. Abstract A test was conducted on a MY 2004 Nissan Quest 3.5 SE, NHTSA No. C45203, 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					
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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 Nissan Quest 3.5 SE 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 Nissan Quest 3.5 SE 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 seven 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: Nissan Quest 3.5 SE ; Model Year: 2004

NHTSA No.: C45203 ; VIN: 5N1BV28U94N320161 ; Vehicle Type: MPV

Incomplete Veh. Make/Model: Not applicable

Designated Seating Capacity: 7 ; Engine Size: 3.5L

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 (5.3)	
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: Nissan Quest 3.5 SE

NHTSA No.: C45203; Test Date: November 25, 2003

Tire Type: Passenger Car- X; Other- _____

Are the tire and rim sizes the same for all axles, including the spare? No

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	SPARE
Manufacturer	Goodyear	Goodyear
Brand	Eagle LS2	Convenience Spare
Tire size	P225/60R17	T135/80D16
Maximum Tire Load Rating (KG)	750	825
De-rated* Tire Load Rating (KG)	682	750
Maximum Inflation Pressure (KPA)	300	420
Tire has DOT symbol? (Yes/No)	Yes	Yes
DOT serial number	DOT M679 CUER 3603	DOT PCRM H92P 3303

* 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	1310	1340
B. (No. of tires) x (de-rated tire load rating (KG) from above table)	1364	1364
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	SPARE
	J	T
A. Source of published dimensions (letter designation)	J	T
B. Rim size	17x6 1/2JJ	16X4T
C. Does rim contain DOT symbol? (Yes/No)	Yes	Yes
D. Manufacturer's name, symbol or trademark (copy format)	NISSAN	NISSAN
E. Date of manufacture or symbol	03 5	09 02 03
Do items A-C appear on weather side of rim? (Yes/No)	Yes	Yes
Letter height (not less than 3mm)	Yes	Yes
Lettering (impressed or embossed)	Both	Impressed
Are all rim markings legible? (Yes/No)	Yes	Yes
Do all markings comply with requirements? (Yes/No)	Yes	Yes
Rims are suitable for tires on vehicle? (Yes/No)	Yes	Yes

RIM MARKINGS	RIGHT FRONT	SPARE
Rim width (mm)	165	102
Rim diameter (mm)	432	406
Rim measurements same as rim markings? (Yes/No)	Yes	Yes

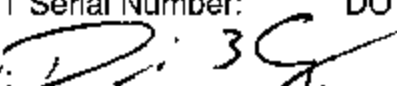
TEST RESULTS (Pass/Fail): Pass

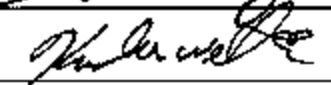
REMARKS:

Right rear tire DOT Serial Number: DOT M679 CUER 3603

Left front tire DOT Serial Number: DOT M679 CUER 3603

Left rear tire DOT Serial Number: DOT M679 CUER 3603

RECORDED BY: ; DATE: 11-25-03

APPROVED BY: ; DATE: 12/4/03

3.0 COMPLIANCE TEST DATA

FMVSS NO. 120 – DATA SHEET 2 (1 of 2)

Vehicle Make/Model: Nissan Quest 3.5 SE

NHTSA No.: C45203; Test Date: November 25, 2003

Label Design: Combined Certification and Tire Label Yes

Separate Tire Information Label Yes

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 jamb

TIRE AND RIM DATA FROM LABEL (for each GAWR/GVWR)		
GVWR: <u>2600</u> KG	FRONT AXLE	REAR AXLE
Tire size	P225/60R17	P225/60R17
Rim size	17X6.5	17X6.5
Recommended inflation pressure (KPA)	240	240
* Are labeled rims suitable for labeled tires? (Yes/No)	Yes	Yes
* Referenced load rating at label recommended inflation pressure (KG)	750	750
** De-rated tire load rating (KG)	682	682

* Referenced source for tire/rim match and load rating data: 2003 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

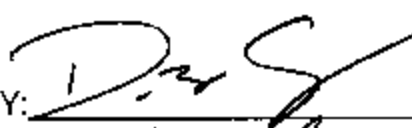
FMVSS No. 120 – DATA SHEET 2 (2 of 2)

CERTIFICATION/TIRE LABEL MAXIMUM CAPACITY COMPARISON		
GVWR: <u>2600</u> KG	FRONT AXLE	REAR AXLE
A. GAWR (KG) from certification label	C. <u>1310</u>	D. <u>1340</u>
B. (No. of tires) x (*Tire load rating (KG))	1364	1364
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: 11-25-03

APPROVED BY: ; DATE: 12/04/03

3.0 COMPLIANCE TEST DATA

FMVSS NO. 120 – DATA SHEET 3 (1 of 2)

Vehicle Make/Model: Nissan Quest 3.5 SE

NHTSA No.: C45203; Test Date: November 25, 2003

Full Fluid levels:

Fuel Full; Coolant Full; Other Fluids Full

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

Total Occupant Load: 476 KG (7 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
2600 KG - 2025 KG - 476 KG = 99 KG

Describe placement of cargo: Distributed evenly in cargo loading area.

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	682	572	NO	639	NO	624	NO
Right Front Tire	682	591	NO	651	NO	642	NO
Front Axle**	1310	1163	NO	1290	NO	1266	NO
Left Rear Tire	682	440	NO	613	NO	677	NO
Right Rear Tire	682	422	NO	598	NO	657	NO
Rear Axle**	1340	862	NO	1211	NO	1334	NO
Total Veh.**	2600	2025	NO	2501	NO	2600	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 recommended inflation pressure specified on the tire and loading information label 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.

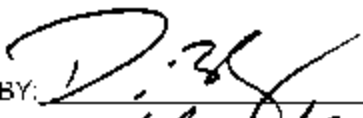
3.0 COMPLIANCE TEST DATA

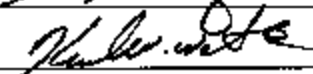
FMVSS NO. 120 – DATA SHEET 3 (2 of 2)

TEST RESULTS (Pass/Fail): Pass

REMARKS:

The vehicle's Tire and Information Label specifies the Vehicle Capacity Weight (VCW) as follows: "The combined weight of occupants and cargo should never exceed 546 kg or 1204 lbs." The vehicle owner's manual discusses how to evaluate and determine vehicle load capacity for occupant and cargo weight (see section 6 of this report). For the maximum load test conducted (condition 3) on the subject vehicle, a VCW of 575 kg was used to obtain a total vehicle load equal to the vehicle's GVWR.

RECORDED BY: ; DATE: 11-25-03

APPROVED BY: ; DATE: 12/04/03

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	5225831-5JC	10-28-03	1-28-04
6" Vernier Caliper	Starrett	97450185	Daily	Daily

FMVSS 120 - Scale Calibration Sheet

METTLER TOLEDO

COMPREHENSIVE TEST REPORT

Customer Name: <u>YRC</u>	SERVICE TICKET/WORK ORDER #: <u>140431</u>
Unit location: <u>Bridge 70</u>	Customer ID#: <u>CR-100 F. Left</u>
Mfg/Model #: <u>MT-1000000</u>	Serial #: <u>5025831530</u>
Capacity: <u>2500</u> kg ☐ <u>1000</u> lbs	Number of divisions: <u>5000</u> Division Size: <u>0.5</u>

The weighing equipment noted on this report has been tested and/or calibrated in compliance with Mettler Toledo procedure VF0023/R, and NIST Handbook 44 and/or Canadian Standard where applicable.

SHIFT TEST

Weights applied: 1000 Max. Permissible Error: 2

As Found	
<u>1000.0</u>	<u>1000.0</u>
<u>2</u>	<u>3</u>
<u>1000.0</u>	<u>1000.0</u>
<u>1</u>	<u>4</u>

As Left	
<u>2</u>	<u>3</u>
<u>1.1</u>	<u>4</u>

In tolerance without adjustment ☐

In tolerance after adjustment ☐

Out of tolerance ☐

Test Load	Weights applied	As found reading	Error: plus or minus (d)	Allowable error (d)	As left reading	Within Tolerance Y/N
Zero	<u>0</u>	<u>0.0</u>	<u>0</u>	<u>1</u>	<u>1</u>	Y ☒ N ☐
	<u>500</u>	<u>500.0</u>	<u>0</u>	<u>2</u>	<u>2</u>	Y ☒ N ☐
	<u>1000</u>	<u>1000.0</u>	<u>0</u>	<u>2</u>	<u>2</u>	Y ☒ N ☐
	<u>1500</u>	<u>1500.0</u>	<u>0</u>	<u>3</u>	<u>3</u>	Y ☒ N ☐
Max Load*	<u>2000</u>	<u>2000.0</u>	<u>0</u>	<u>3</u>	<u>3</u>	Y ☒ N ☐
						Y ☐ N ☐
						Y ☐ N ☐
						Y ☐ N ☐
Zero	<u>0</u>	<u>0.0</u>	<u>0</u>	<u>1</u>	<u>1</u>	Y ☒ N ☐

* Maximum load used in test

In tolerance without adjustment ☒

REMARKS:		
WEIGHT CERTIFICATION NUMBERS: <u>5025831530 - 500</u>		
Weight Technician: <u>CR-100</u>	CUSTOMER CALIBRATION DATE: <u>12-1-2012</u>	CUSTOMER CALIBRATION DUE: <u>12-1-2013</u>
TECHNICIAN SIGNATURE: <u>[Signature]</u>		TECHNICIAN TITLE: <u>Calibration Technician</u>
Where Applicable:	CUSTOMER NAME (Please Print): <u>YRC</u>	CUSTOMER SIGNATURE: <u>[Signature]</u>

VF00051R.r04

D15020800A

FMVSS 120 - Scale Calibration Sheet

METTLER TOLEDO

COMPREHENSIVE TEST REPORT

Customer Name	TFC		SERV. TICKET / WORK ORDER #	10041
Unit location	Chicago		Customer IDA	28 E. 10th
Mfg/Model #	MT. 1000	Serial #	5225831-530	
Capacity	25000 lb	Number of divisions	5000	Division Size 0.5

The weighing equipment noted on this report has been tested and/or calibrated in compliance with Mettler Toledo procedure VP00231R, and NIST Handbook 44 and/or Canada Statute where applicable.

SHIFT TEST

Weights applied 1000 Max. Permissible Error: 1

As Found	
1000.5	1000.5
1000.5	1000.5
1000.5	1000.5

As Left	
2	3
1	4

In tolerance without adjustment ☐

In tolerance after adjustment ☐

Out of tolerance ☐

Test Load	Weights applied	As found reading	Error: plus or minus (d)	Allowable error (d)	As left reading	Within Tolerance Y/N
Zero	0	0.0	0	1	1	Y ☒ N ☐
	500	500.0	0	2	2	Y ☒ N ☐
	1000	1000.5	+1	2	2	Y ☒ N ☐
	1500	1500.5	+1	2	2	Y ☒ N ☐
Max Load*	20000	20000.5	+1	3	3	Y ☒ N ☐
						Y ☐ N ☐
						Y ☐ N ☐
						Y ☐ N ☐
Zero	0	0.0	0	1	1	Y ☒ N ☐

* Maximum load used in test

In tolerance without adjustment ☒

REMARKS			
WEIGHT IDENTIFICATION NUMBERS: 100500-006			
Weight Capacity Certificate #	2007-348	CUSTOMER CALIBRATION DATE	10-28-07
PERFORMED BY:	George Coburn	Customer Signature	
	Technician Name (Please Print)	Technician Signature	
When Applicable	Customer Name (Please Print)	Customer Signature	

VF00051R.DX

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FMVSS 120 - Scale Calibration Sheet

METTLER TOLEDO

COMPREHENSIVE TEST REPORT

Customer Name: <u>TRC</u>	SERVICE TICKET/WORK ORDER #: <u>14050</u>
Unit Location: <u>1000</u>	Customer ID# <u>3000</u>
Mfg/Model #: <u>MT 5000</u>	Serial #: <u>5235851550</u>
Capacity: <u>2500 kg</u>	Number of Divisions: <u>5000</u> Division Size: <u>0.5</u>

The weighing equipment noted on this report has been tested and/or calibrated in compliance with Mettler Toledo procedure VPO01231P, and NIST Handbook 44 and/or Canada Standard where applicable.

SHIFT TEST

Weights applied: 1000 Max. Permissible Error: 2

As Found	
1000.5	1000.0
7	8
1000.0	1000.0
8	9

As Left	
2	3
8	9

In tolerance without adjustment ☒

In tolerance after adjustment ☐

Out of tolerance ☐

Test Load	Weights applied	As found reading	Error: plus or minus (d)	Allowable error (d)	As left reading	Within Tolerance Y/N
Zero	0	0.0	0	±1	1	Y ☒ N ☐
	500	500.0	0	2	2	Y ☒ N ☐
	1000	1000.0	0	2	2	Y ☒ N ☐
	1500	1500.5	+1	3	3	Y ☒ N ☐
Max Load*	2500	2500.0	+2	3	3	Y ☒ N ☐
						Y ☐ N ☐
						Y ☐ N ☐
						Y ☐ N ☐
Zero	0	0.0	0	±1	1	Y ☒ N ☐

* Maximum load used in test.

In tolerance without adjustment ☒

REMARKS		
WEIGHT IDENTIFICATION NUMBERS: <u>500 700 750</u>		
Weight Issued to Customer: <u>3000</u>	CUSTOMER CALIBRATION DATE: <u>10/10/00</u>	CUSTOMER CALIBRATION BY: <u>3000</u>
PERFORMED BY: <u>3000</u>		Customer Signature: <u>3000</u>
Where Applicable: <u>3000</u>		Customer Name (Please Print): <u>3000</u>
Where Applicable: <u>3000</u>		Customer Signature: <u>3000</u>

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FMVSS 120 - Scale Calibration Sheet

METTLER TOLEDO

COMPREHENSIVE TEST REPORT

Customer Name	<u>TRC</u>	SERVICE TICKET/ WORK ORDER #	<u>140431A</u>
Unit Location	<u>Blade 3D</u>	Customer ID#	<u>R-Right</u>
Mfg/Model #	<u>MT-1000</u>	Serial #	<u>522583/ST</u>
Capacity	<u>2500</u> kg ☐ lb ☒	Number of divisions	<u>5000</u>
		Division Size	<u>0.5</u>

This weighing equipment noted on this report has been tested and/or calibrated in compliance with Mettler Toledo procedure VFO0231R, and NIST Handbook 44 and/or Canada Standard where applicable.

SHIFT TEST

Weights applied: 1000 Max. Permissible Error: 2

As Found	
999.5	1000.0
2	3
999.5	1000.0
1	4

As Left	
2	3
1	4

In tolerance without adjustment: ☒

In tolerance after adjustment: ☐

Out of tolerance: ☐

Test Load	Weights applied	As found reading	Error: plus or minus (d)	Allowable error (d)	As left reading	Within Tolerance Y/N
Zero	0	0.0	0	1	0	Y ☒ N ☐
	500	500.0	0	2	500	Y ☒ N ☐
	1000	1000.0	0	3	1000	Y ☒ N ☐
	1500	1500.0	0	3	1500	Y ☒ N ☐
Max Load*	2000	1999.5	-1	3	1999.5	Y ☒ N ☐
						Y ☐ N ☐
						Y ☐ N ☐
						Y ☐ N ☐
Zero	0	0.0	0	1	0	Y ☒ N ☐

* Maximum load used in test.

In tolerance without adjustment: ☒

REMARKS:		
WEIGHT IDENTIFICATION NUMBERS: <u>502500-501</u>		
Weight Identification Code #	CUSTOMER CALIBRATION DATE	CUSTOMER CALIBRATION DUE
PERFORMED BY:	Technician Signature (Please Print)	
	Technician Signature	
Where Applicable:	Customer Name (Please Print)	Customer Signature

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 Label
4. Tire and Loading Information Label
5. Right Front Tire Serial Number
6. Right Front Tire Load Ratings
7. Right Front Tire Size Designation
8. Right Front Tire Markings
9. Right Front Rim Markings
10. Right Front Rim Markings
11. Right Front Rim Markings
12. Right Front Rim Markings
13. TRC Weight Scales
14. Simulated Occupant Loading
15. Simulated Occupant Loading
16. Simulated Cargo Loading

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003

¾ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003



¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE

2004 NISSAN QUEST 3.5 SE

NHTSA NO. C45203

NOVEMBER 2003

MED BY NISSAN MOTOR CO., LTD.

DATE 9/03
GVWR 5732 LB
GAWR FR 2888 LB
WITH P225/60R17 TIRES
17X6.5 RIMS AT 35 PSI
COLD SINGLE

GAWR RR 2954 LB
WITH P225/60R17 TIRES
17X6.5 RIMS AT 35 PSI
COLD SINGLE

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

SEE OWNERS MANUAL FOR
ADDITIONAL INFORMATION.

5N1BV28U94N320161

TYPE MPV 112
MODEL L JALVN-EUA 0Z000
COLOR TRIM TRANS

R11 C RE5F22A
AXLE ENGINE

GA22 VQ35DE 3498CC

VEHICLE CERTIFICATION LABEL



TIRE AND LOADING INFORMATION **PNEU ET INFORMATION DE CHARGEMENT**

SEATING CAPACITY NOMBRE DE PLACES	TOTAL TOTAL	FRONT AVANT	REAR ARRIERE
7	7	2	5

THE COMBINED WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED 540 kg OR 1204 lbs.
 LE POIDS COMBINÉ D'OCCUPANTS ET DE CHARGES NE DEVRAIT JAMAIS EXCÉDER 540 kg OU 1204 lb.

RECOMMENDED COLD TIRE INFLATION PRESSURE

PRESSION DE GONFLAGE RECOMMANDÉE DES PNEUS FROIDS

ORIGINAL TIRE SIZE TAILLE DU PNEU D'ORIGINE	FRONT AVANT	REAR ARRIERE
--	----------------	-----------------

P225/60R17 240 kPa (35 psi)

SPARE TIRE
ROUE DE SECOURS

T135/80D16 420 kPa (60 psi)

SEE OWNER'S MANUAL
 FOR ADDITIONAL
 RECOMMENDATIONS
 REGARDING
 TIRE PRESSURES
 AND LOADS
 SEE MANUEL
 POUR PLUS DE
 DÉTAILS SUR LES
 RECOMMANDATIONS
 CONCERNANT
 LES PNEUS ET
 LES CHARGES

2004 NISSAN QUEST

3.5 SE

NHTSA NO. C45203

NOVEMBER 2003

DOT N079 QUER 3603

RIGHT FRONT TIRE SERIAL NUMBER

2004 NISSAN QUEST

3.5 SE

NHTSA NO. C45203

NOVEMBER 2003

RIGHT FRONT TIRE LOAD RATINGS

2004 NISSAN QUEST

3.5 SE

NHTSA NO. C45203

NOVEMBER 2003

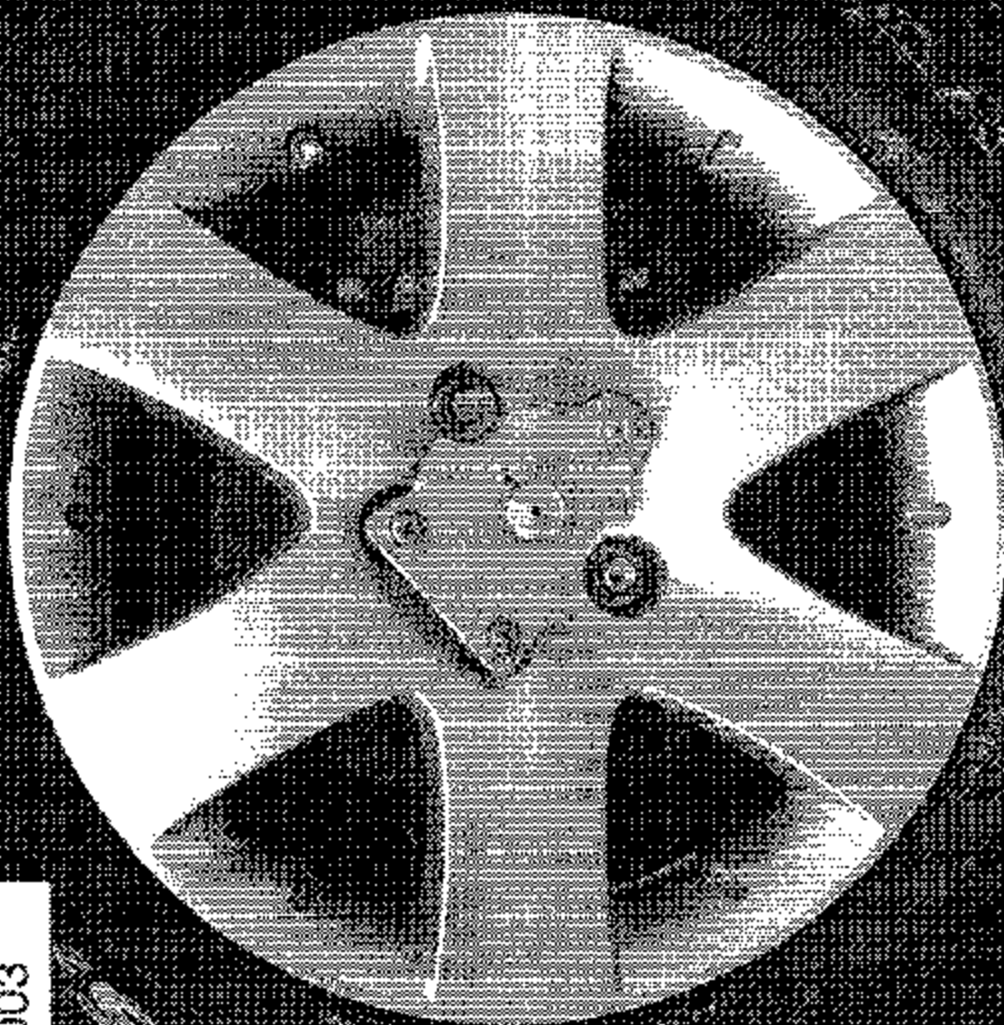
21

P2225/60R17

98H

RIGHT FRONT TIRE SIZE DESIGNATION

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003



RIGHT FRONT TIRE MARKINGS

2004 NISSAN QUEST
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NHTSA NO. C45203
NOVEMBER 2003

RIGHT FRONT RIM MARKINGS

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003

1730x114D

RIGHT FRONT RIM MARKINGS

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003

3D100 51

8011

RIGHT FRONT RIM MARKINGS

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003

RIGHT FRONT RIM MARKINGS

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003

TRC WEIGHT SCALES

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003

SIMULATED OCCUPANT LOADING

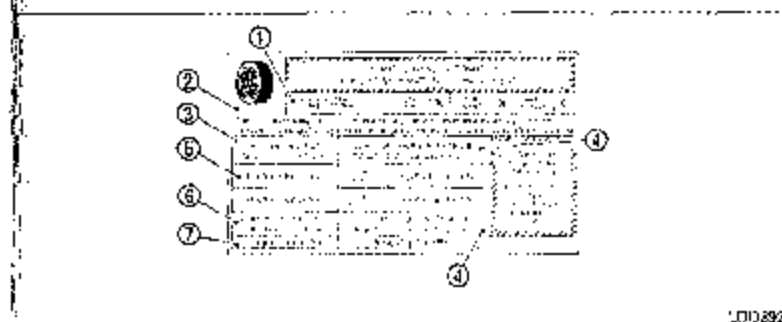
2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003

SIMULATED OCCUPANT LOADING

2004 NISSAN QUEST
3.5 SE
NHTSA NO. C45203
NOVEMBER 2003

SIMULATED CARGO LOADING

6.0 APPLICABLE PAGES OF OWNERS MANUAL

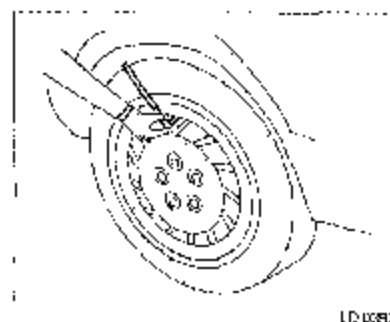


LD0292

and loading information label (for 3)

- 1 Seating capacity: The maximum number of occupants that should be seated in the vehicle. This example shows 2 for front seats, 3 for rear seats, total 5 occupants.
- 2 Vehicle load limit: See loading information in the Technical and consumer information section.
- 3 Original tire size: The size of the tires originally installed on the vehicle at the factory.

- 4 Recommended cold tire inflation pressure: Inflate the tires to this pressure when the tires are cold. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds. The recommended cold tire inflation is set by the manufacturer to provide the best tire wear and vehicle handling characteristics based on the vehicle GVWR.
- 5 Tire size - refer to "Tire loading" later in this section.
- 6 and 7: Shows tire size of equipment tire size (if equipped).



LD0293

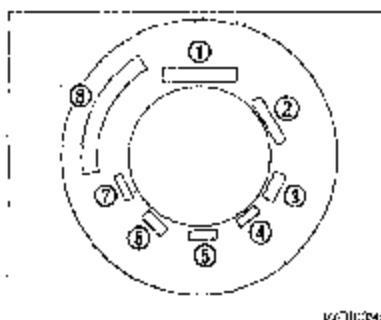
Checking tire pressure

1. Remove the valve stem cap from the tire.
2. Press the pressure gauge squarely onto the valve stem. Do not press too hard or force the valve stem sideways, or air will escape. If the rising of air escaping from the area is heard while checking the pressure, reposition the gauge to eliminate this leakage.
3. Remove the gauge.
4. Read the tire pressure on the gauge alert and compare to the specification shown on the Tire and Loading Information label.

Maintenance and do-it-yourself 8-33

5. Add air to the tire as needed. If too much air is added, press the core of the valve stem briefly with the tip of the gauge stem to release pressure. Recheck the pressure and add or release air as needed.
6. Install the valve stem cap.
7. Check the pressure of all other tires, including the spare.

	Size	Cold tire inflation Pressure
Front Original Tire	P225/65R16 P225/60R17	340 kPa, 35 PSI
Rear Original Tire	P225/65R16 P225/60R17	240 kPa, 35 PSI
Spare Tire	T105/60D16	420 kPa, 60 PSI



LD0294

TIRE LABELING

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.

8-34 Maintenance and do-it-yourself

CAUTION

Before mounting the license plate, confirm that the following parts are enclosed in the plastic bag:

- License plate bracket
- License plate bracket screws x 2
- License plate screws x 2
- Screw trimplate x 2

1. Make a shallow hole in the bumper fascia at the location marks (at all dimples), using a 3/16 in (10 mm) drill. To avoid damaging the area behind the fascia, apply only light pressure to the drill.
2. Insert the grommets into the holes in the bumper fascia.
3. Insert a #10 flat bladed screwdriver into the grommet hole to turn the threaded part of the grommet 90°.
4. Mount the license plate bracket using the two longer screws.
5. Use the two shorter hex head screws to mount the license plate to the license plate bracket.

- It is extremely dangerous to ride in a cargo area inside a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.
- Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.
- Be sure everyone in your vehicle is in a seat and using a seat belt properly.

It is important to familiarize yourself with the following terms before loading your vehicle.

- **Curb Weight** (curb weight of your vehicle) - vehicle weight including standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight **does not** include passengers and cargo.
- **GWW** (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
- **GVWR** (Gross Vehicle Weight Rating) - maximum law-allowed combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer (tongue load) and any other optional

- **GAWR (Gross Axle Weight Rating)** - maximum weight (load) limit specified for the front or rear axle. This information is located on the **SAFARI** label.

- **GCWR (Gross Combined Weight rating)** - "The maximum total weight rating of the vehicle, passengers, cargo, and trailer."
- **Vehicle Capacity Weight, Load limit, Total load capacity** - maximum total weight limit specified by the manufacturer (passengers and cargo) for the vehicle. This is the maximum combined weight of occupants and cargo that can be loaded into the vehicle. If the vehicle is used to tow a trailer, the trailer tongue weight must be included as part of the cargo load. This information is located on the Tire and Loading Information label.
- **Cargo capacity** - permissible weight of cargo, it is calculated weight of occupants from the load limit.

Load limit
1,400 lb
(640 kg)

—

Passengers

 150 lb x 5 = 750 lb
 (70 kg) (340 kg)

+

Luggage

 50 lb x 5 = 250 lb
 (14 kg) (70 kg)

=

Available cargo
 and luggage load
 capacity
 500 lb
 (227 kg)

Do not exceed the load limit of your vehicle shown as "The combined weight of occupants and cargo" on the Tire and Loading Information label. Do not exceed the number of occupants shown as "Seating Capacity" on Tire and Loading Information label.

To get the combined weight of occupants and cargo, add the weight of all occupants, then add the total luggage weight. Examples are shown below:

1. Locate the statement "Maximum weight of occupants and cargo should never exceed XXX pounds" on your vehicle's Tire and Loading Information label.

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, five XXX amount equals 400 lbs. and there will be five 150 lb. passengers in your vehicle, an amount of available cargo and luggage load capacity is 450 lbs. $(400 - 250 (5 \times 150) = 450 \text{ lbs.})$
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, 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.

- The GVW must not exceed GVWR or GVWR set specified on the F.M.V.S.S. certification label.

- Do not load the front and rear axle to the GVWR. Do it so will exceed the GVWS.