

97-GP SERIES

CANCELLATION
March 1971

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Standards
for

AUTOMOTIVE VEHICLE SAFETY

Standards 97-GP-101 to 97-GP-301 inclusive, covering safety features for automotive vehicles, have been cancelled. They have been replaced by the Motor Vehicle Safety Regulations of the Ministry of Transport, which are available from Information Canada.

Publication 97-GP, Guide to Traffic Safety, has also been cancelled.



CANADIAN GOVERNMENT SPECIFICATIONS BOARD

STANDARD

FOR

NEW PNEUMATIC TIRES - PASSENGER CARS

97-GP-109

24 MAY 1968

THIS STANDARD SPECIFIES TIRE DIMENSIONS AND LABORATORY TEST REQUIREMENTS FOR BEAD UNSEATING RESISTANCE, STRENGTH, ENDURANCE AND HIGH SPEED PERFORMANCE. IT DEFINES TIRE LOAD RATINGS AND SPECIFIES LABELLING REQUIREMENTS.

DEPARTMENT OF DEFENCE PRODUCTION, OTTAWA, CANADA

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CANADIAN GOVERNMENT SPECIFICATIONS BOARD

STANDARD

for

NEW PNEUMATIC TIRES - PASSENGER CARS

1. PURPOSE AND SCOPE

This standard specifies tire dimensions and laboratory test requirements for bead unseating resistance, strength, endurance, and high speed performance. It defines tire load ratings and specifies labelling requirements.

2. APPLICABLE PUBLICATIONS

2.1 The following publications are applicable to this standard:

2.1.1 The Tire and Rim Association (TRA) Year Book, 1967.

2.1.2 The Tire and Rim Association Supplementary Service Data Book, 1967.

2.1.3 Society of Motor Manufacturers and Traders Limited (SMMT) Tyre and Wheel Engineering Data Book, 1965/1966.

2.1.4 Japan Automobile Tire Manufacturers Association, 1966.

2.1.5 Japanese Industrial Standards (JIS-D4202), 1966.

2.1.6 European Tire and Rim Technical Organization Practices (ETRTO).

2.1.7 Deutsche Industrie Norm (DIN) 7817, August 1962, or (DIN) 7818, June 1959.

3. APPLICABILITY

3.1 This standard applies to:

New Pneumatic Tires for Use on Passenger Cars Manufactured After 1948.

* See Par 7.1

4. DEFINITIONS

- 4.1 "Bead" means that part of the tire made of steel wires, wrapped or reinforced by ply cords, that is shaped to fit the rim.
- 4.2 "Bead separation" means a breakdown of bond between components in the bead area.
- 4.3 "Bias ply tire" means a pneumatic tire in which the ply cords that extend to the beads are laid at alternate angles substantially less than 90 degrees to the centerline of the tread.
- 4.4 "Carcass" means the tire structure, except tread and sidewall rubber.
- 4.5 "Chunking" means the breaking away of pieces of the tread.
- 4.6 "Cord" means the strands forming the plies in the tire.
- 4.7 "Cord separation" means cords parting away from adjacent rubber compounds.
- 4.8 "Groove" means the space between two adjacent tread ribs.
- 4.9 "Load rating" means the maximum load a tire is rated to carry for a given inflation pressure.
- 4.10 "Maximum permissible inflation pressure" means the maximum cold inflation pressure to which a tire may be inflated.
- 4.11 "Maximum load rating" means the load rating at the maximum permissible inflation pressure for that tire.
- 4.12 "Overall width" means the linear distance between the exteriors of the sidewalls of an inflated tire, including elevations due to labelling, decorations, or protective bands or ribs.
- 4.13 "Ply" means a layer of rubber-coated parallel cords.
- 4.14 "Ply separation" means a parting of rubber compound between adjacent plies.
- 4.15 "Pneumatic tire" means a mechanical device made of rubber, chemicals, fabric and steel or other materials, which, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load.
- 4.16 "Radial ply tire" means a pneumatic tire in which the ply cords which extend to the beads are laid at substantially 90 degrees to the centerline of the tread.

4.17 "Rim" means a metal support for a tire, or a tire and tube assembly, upon which the tire beads are seated.

4.18 "Section width" means the linear distance between the exteriors of the sidewalls of an inflated tire, excluding elevations due to labelling, decoration, or protective bands.

4.19 "Sidewall" means that portion of a tire between the tread and the bead.

4.20 "Size factor" means the sum of the section width and the outer diameter of a tire determined on the test rim.

4.21 "Test rim" means any rim of the applicable rim width specified in Table 1 for a particular tire size designation with the rim dimensions shown in the Tire and Rim Association Year Book, the Tire and Rim Association Supplementary Service Data Book, the Tyre and Wheel Engineering Data Book of the Society of Motor Manufacturers and Traders Limited (SMMT), the Japan Automobile Tire Manufacturers Association, the Japanese Industrial Standards (JIS-D4202), the European Tire and Rim Technical Organization Practices (ETRTO), the Deutsche Industrie Norm (DIN) 7817 or (DIN) 7818, or an approved equivalent rim.

4.22 "Tread" means that portion of a tire that comes into contact with the road.

4.23 "Tread rib" means a tread section running circumferentially around a tire.

4.24 "Tread separation" means pulling away of the tread from the tire carcass.

4.25 "Tread Wear Indicators" means tie bars molded into the grooves of the tread that will show up when the tread is worn to 1/16 inch above the base of the tread groove.

5. DETAIL REQUIREMENTS

5.1 Size and Construction - Each tire shall be designed to fit each rim specified for its size designation in each reference cited in the definition of "test rim", par. 4.21.

5.2 Performance Requirements

5.2.1 General - Each tire shall conform to each of the following:

- (a) It shall meet the requirements specified in 5.2.2 for its tire size designation, type, and maximum permissible inflation pressure.

- (b) Its maximum permissible inflation pressure shall be either 32, 36, or 40 psi.
- (c) Its load rating shall be that specified in Table 1 for its size designation, type, and each appropriate inflation pressure.
- (d) If manufactured on or after 1 August 1968, it shall incorporate a tread wear indicator that will provide a visual indication that the tire has worn to a tread depth of 1/16 inch.

5.2.2 Test Requirements

5.2.2.1 Test Sample - For each test sample use:

- (a) One tire for physical dimensions, resistance to bead unseating, and strength, in sequence.
- (b) Another tire for tire endurance.
- (c) A third tire for high speed performance.

5.2.2.2 Physical Dimensions - Each tire, when measured in accordance with par. 6.1, shall conform to each of the following:

- (a) Its actual section width and overall width shall not exceed by more than 7 per cent the section width specified in Table 1 for its size designation and type.
- (b) Its size factor shall be at least as large as that specified in Table 1 for its size designation and type.

5.2.2.3 Tubeless Tire Resistance to Bead Unseating - When tested in accordance with par. 6.2, the applied force required to unseat the tire bead at the point of contact shall not be less than:

- (a) 1500 pounds for tires with a designated section width of less than six (6) inches.
- (b) 2000 pounds for tires with a designation section width of six (6) inches or more but less than eight (8) inches.
- (c) 2500 pounds for tires with a designated section width of eight (8) inches or more, using the section width specified in Table 1 for the applicable tire size designation and type.

5.2.2.4 Tire Strength - Each tire shall meet the requirements for minimum breaking energy specified in Table II when tested in accordance with par. 6.3.

- 5.2.2.5 Tire Endurance - After completion of the laboratory test wheel endurance test specified in par. 6.4, no tire shall have tread, ply, cord, or bead separation, chunking, or broken cords.
- 5.2.2.6 High Speed Performance - After completion of the laboratory high speed performance test specified in par. 6.5, no tire shall have tread, ply, cord, or bead separation, chunking, or broken cords.
- 5.3 Labelling Requirements - Except as provided in par. 5.3.1, each tire shall be conspicuously labelled on both sidewalls with each of the following permanently molded into or onto the tire:

- (a) Size designation.
- (b) Maximum permissible inflation pressure.
- (c) Maximum load rating.
- (d) Identification or manufacturer by:
 - (i) name, or
 - (ii) brand name and an approved code mark.
- (e) Composition of the material used in the ply cord.
- (f) Actual number of plies in the sidewall and the actual number of plies in the tread area, if different.
- (g) The word "tubeless" or "tube-type", as applicable.
- (h) The word "radial", if a radial ply tire.
- (i) An approved recital (or the symbol specified in Figure 1) that the tire conforms to CGSB 97-GP-109 or other approved standards.*

- 5.3.1 Until 1 August 1968 the labelling requirements of par. 5.3 may be met by affixing to each tire a label or tag that incorporates all specified information not molded into or onto the tire.

6. TEST PROCEDURES

- 6.1 Physical Dimensions - Determine tire physical dimensions under uniform ambient conditions as follows:

- (a) Mount the tire on a test rim and inflate it to the applicable pressure specified in Table III.

* See par 7.2

- (b) Condition it at ambient room temperature for at least 24 hours.
- (c) Readjust pressure to that specified in (a).
- (d) Caliper the section width and overall width at 6 points approximately equally spaced around the tire circumference.
- (e) Record the average of these measurements as the section width and overall width, respectively.
- (f) Determine tire outer diameter by measuring the maximum circumference of the tire and dividing this dimension by pi (3.14).

6.2 Tubeless Tire Bead Unseating Resistance

6.2.1 Preparation of Tire-Wheel Assembly

- 6.2.1.1 Wash the tire, dry it at the beads, and mount it without lubrication or adhesives on a clean, painted test rim.
- 6.2.1.2 Inflate it to the applicable pressure specified in Table III at ambient room temperature.
- 6.2.1.3 Mount the wheel and tire in the fixture shown in Figure 2, and force the standard block shown in Figure 3 against the tire sidewall as required by the geometry of the fixture.

6.2.2 Test Procedure

- 6.2.2.1 Apply a load through the block to the tire outer sidewall at the distance specified in Figure 2 for the applicable wheel size at a rate of 2 inches per minute, with the load arm substantially parallel to the tire and rim assembly at the time of engagement.
- 6.2.2.2 Increase the load until the bead unseats or the applicable value specified in par. 5.2.2.3 is reached.
- 6.2.2.3 Repeat the test at least four places equally spaced around the tire circumference.

6.3 Tire Strength

6.3.1 Preparation of Tire

- 6.3.1.1 Mount the tire on a test rim and inflate it to the applicable pressure specified in Table III.

- 6.3.1.2 Condition it at room temperature for at least 3 hours.
- 6.3.1.3 Readjust its pressure to that specified in par. 6.3.1.1.

6.3.2 Test Procedure

- 6.3.2.1 Force a 3/4-inch diameter cylindrical steel plunger with a hemispherical end perpendicularly into the tread rib as near to the centerline as possible, avoiding penetration into the tread groove, at the rate of 2 inches per minute.
- 6.3.2.2 Record the force and penetration at five test points equally spaced around the circumference of the tire. If the tire fails to break before the plunger is stopped by reaching the rim, record the force and penetration as the rim is reached and use these values in par. 6.3.2.3.
- 6.3.2.3 Compute the breaking energy for each test point by means of the following formula:

$$W = \frac{F \times P}{2}$$

where

W = Energy, inch-pounds

F = Force, pounds

P = Penetration, inches.

- 6.3.2.4 Determine the breaking energy value for the tire by computing the average of the five values obtained in accordance with par. 6.3.2.3.

6.4 Tire Endurance

6.4.1 Preparation of Tire

- 6.4.1.1 Mount a new tire on a test rim and inflate it to the applicable pressure specified in Table III.
- 6.4.1.2 Condition the tire assembly to $100 \pm 5^{\circ}\text{F}$ for at least three hours.
- 6.4.1.3 Readjust tire pressure to that specified in par. 6.4.1.1 immediately before testing.

6.4.2 Test Procedure

- 6.4.2.1 Mount the tire and wheel assembly on a test axle and press it against a flat-faced steel test wheel 67.23 inches in diameter and at least as wide as the section width of the tire to be tested or an approved equivalent test wheel, with the applicable test load specified in Table I for the tire's size designation, type, and maximum permissible inflation pressure.
- 6.4.2.2 During the test, the air surrounding the test area shall be $100 \pm 5^{\circ}\text{F}$.
- 6.4.2.3 Conduct the test at 50 miles per hour in accordance with the following schedule without pressure adjustment or other interruption:

Maximum Permissible Inflation Pressure (psi)	Load from Table I, for		
	4 hrs.	6 hrs.	24 hrs.
32	24 psi column	28 psi column	32 psi column
36	28 psi column	32 psi column	36 psi column
40	32 psi column	36 psi column	40 psi column

6.5 High Speed Performance

- 6.5.1 After preparing the tire in accordance with par. 6.4.1, mount the tire and wheel assembly in accordance with par. 6.4.2.1, and press it against the test wheel with the load specified in Table I for the tire's size designation and the applicable pressure specified in Column B of the following table:

Column A	Column B
Maximum Permissible Inflation Pressure (psi)	Load from Table I
32	24 psi column
36	28 psi column
40	32 psi column

- 6.5.2 Break in the tire by running it for 2 hours at 50 mph.
- 6.5.3 Allow it to cool to $100 + 5^{\circ}\text{F}$ and readjust the inflation pressure to the applicable pressure specified in Table III.
- 6.5.4 Without readjusting inflation pressure, test at 75 mph for 30 minutes, 80 mph for 30 minutes, and (except deep-tread, winter-type tires) 85 mph for 30 minutes.

7. NOTES

7.1 The requirements in this standard are identical with those in United States Federal Motor Vehicle Safety Standard No. 109, New Pneumatic Tires - Passenger Cars, and changes in that standard will be duly incorporated in CGSB Standard 97-GP-109.

7.2 Certification to U.S. Standard No. 109 applicable at date of manufacture will certify conformance to CGSB Standard 97-GP-109.

7.3 The publication listed in par. 2.1.1 may be obtained from the Tire and Rim Association Inc., Command Bldg., 34 N Hawkins Ave., Akron, Ohio 44313, U.S.A.

7.4 Further related information may be found in the following publications of the Canadian Government Specifications Board:

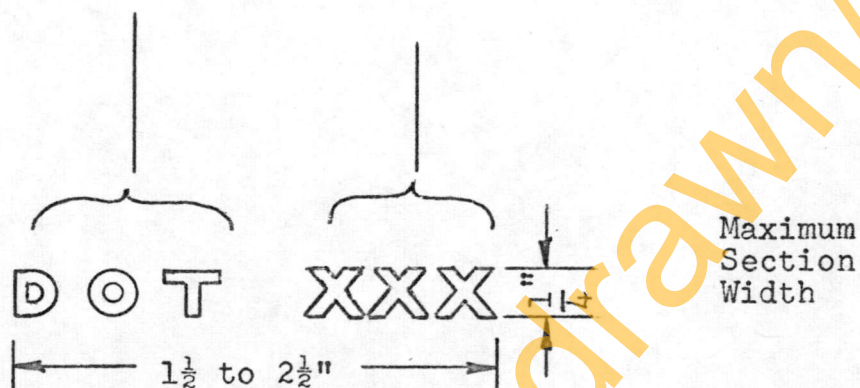
CGSB 20-GP-26, Tires, Pneumatic, Tubeless, for Automobiles and Station Wagons

CGSB Guide to Traffic Safety.

Correspondence regarding this standard should be addressed to the Canadian Government Specifications Board, c/o Department of Defence Production, Ottawa 4, Canada.

Reference:
5.3(i) CGSB 97-GP-109
Symbol

Reference:
5.3(d)(2) CGSB 97-GP-109
Code Mark



0.025 to 0.040" deep
(molded into or onto
tire sidewalls)

Maximum
Section
Width

Locate approved symbol and manu-
facturers code mark, when used, in
lower segment of both sidewalls be-
tween maximum section width and
bead so that data will not be ob-
structed by rim flange.

Figure 1 - CGSB 97-GP-109

SPECIFICATIONS FOR APPROVED SYMBOL
AND MANUFACTURERS' CODE MARK

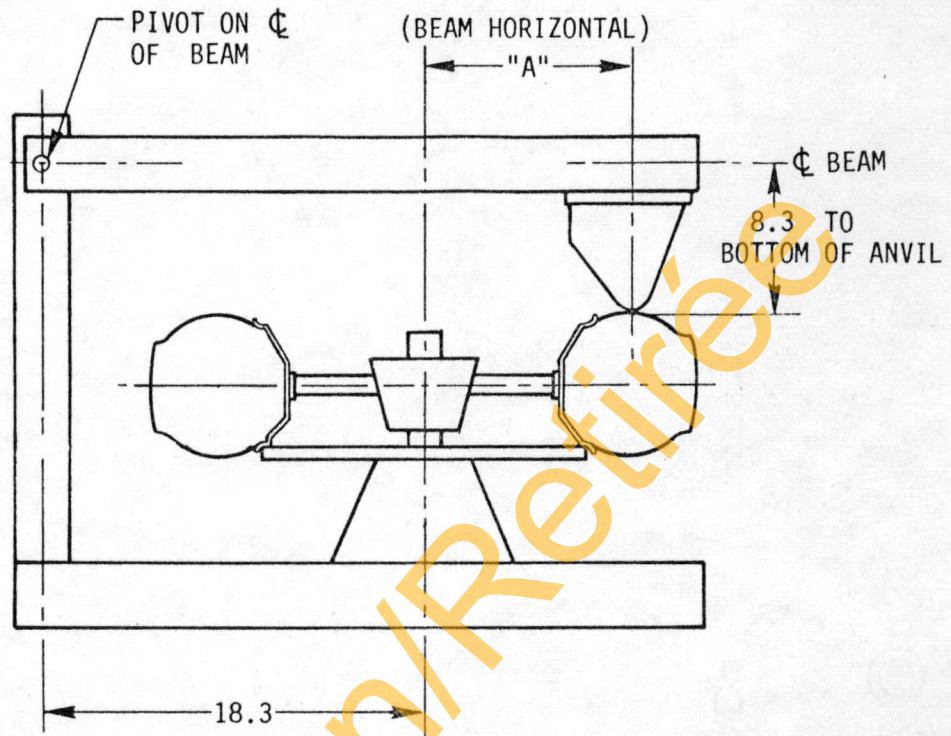
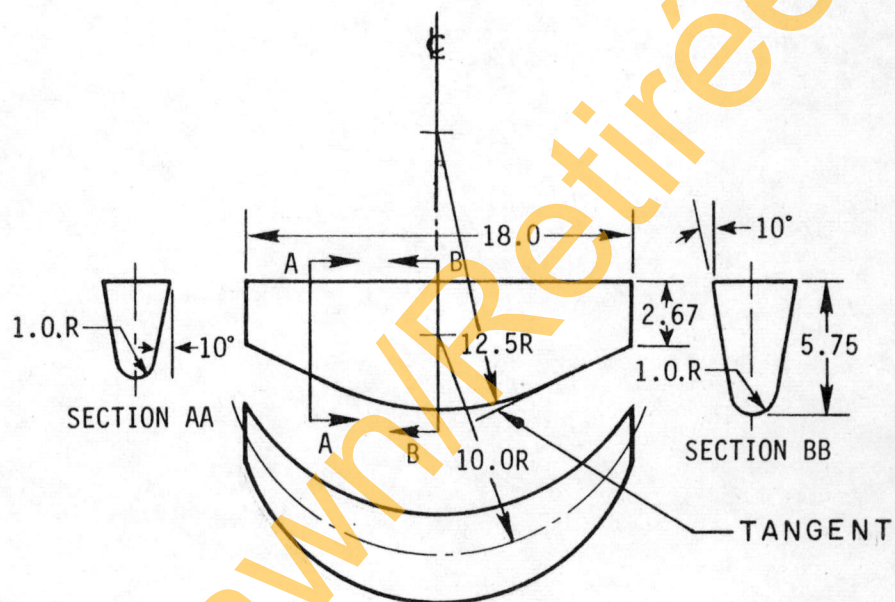


FIGURE 2: BEAD UNSEATING TEST FIXTURE
DIMENSIONS IN INCHES

WHEEL SIZE	DIM. "A"
17	12.0
16	11.5
15	11.0
14	10.5
13	10.0
12	9.5
11	9.0
10	8.5



Material: Cast Aluminum #355
T-6 Condition
Finish - 50 Microinch

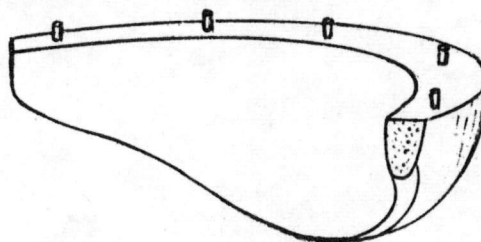


FIGURE 3: DIAGRAM OF BEAD UNSEATING BLOCK
DIMENSIONS IN INCHES

TABLE I-A

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR CONVENTIONAL AND LOW SECTION HEIGHT BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
6.00-13			770	820	860	900	930	970	1010	1040	1080	1110	1140	4	29.37	6.00
6.50-13			890	930	980	1030	1070	1110	1150	1190	1230	1270	1300	4½	30.75	6.60
7.00-13			980	1030	1080	1130	1180	1230	1270	1310	1360	1400	1440	5	31.88	7.10
6.00-14			840	900	930	980	1020	1060	1100	1130	1170	1210	1240	4	30.64	6.70
6.45-14			860	910	960	1000	1040	1080	1120	1160	1200	1240	1270	4½	30.92	6.60
6.50-14			930	990	1030	1080	1130	1170	1210	1250	1300	1330	1370	4½	31.75	6.60
6.95-14			950	1000	1050	1100	1140	1190	1230	1270	1310	1350	1390	5	31.96	7.00
7.00-14			1030	1100	1140	1190	1240	1290	1340	1380	1430	1470	1520	5	32.88	7.10
7.35-14			1040	1100	1160	1210	1260	1310	1360	1400	1450	1490	1540	5	32.92	7.30
7.50-14			1150	1230	1280	1340	1390	1450	1500	1550	1600	1650	1700	5½	34.19	7.65
7.75-14			1150	1210	1270	1330	1390	1440	1500	1550	1600	1650	1690	5½	34.09	7.75
8.00-14			1240	1320	1380	1440	1500	1560	1620	1670	1730	1780	1830	6	35.17	8.10
8.25-14			1250	1310	1380	1440	1500	1560	1620	1670	1730	1780	1830	6	35.11	8.20
8.50-14			1330	1420	1480	1550	1610	1670	1740	1790	1850	1910	1960	6	35.91	8.35
8.55-14			1360	1430	1510	1580	1640	1710	1770	1830	1890	1950	2000	6	36.06	8.50
8.85-14			1430	1510	1580	1660	1730	1790	1860	1920	1990	2050	2100	6½	36.82	8.95

TABLE I-A (Cont'd)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR CONVENTIONAL & LOW SECTION HEIGHT BIAS PLY TIRES

Tire size 1/ designation.	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
9.00-14			1430	1510	1580	1660	1730	1790	1860	1920	1990	2050	2100	6½	36.91	8.80
9.50-14			1540	1640	1700	1780	1850	1930	2000	2060	2130	2200	2260	6½	37.74	9.05
6.00-15			890	940	980	1030	1070	1110	1150	1190	1230	1270	1300	4	31.64	6.10
6.50-15			980	1040	1080	1130	1180	1230	1270	1320	1360	1400	1440	4½	32.75	6.60
6.70-15			1110	1190	1230	1290	1340	1400	1450	1500	1550	1590	1640	4½	33.95	7.00
6.85-15			950	1000	1050	1100	1140	1190	1230	1270	1320	1360	1390	5	32.48	6.90
7.00-15	1170	1240	1310	1380	1450	1515	1580	1640	1700	1760	1820	1870	1930	5	35.02	7.35
7.10-15			1190	1270	1320	1380	1440	1500	1550	1600	1660	1710	1760	5	34.89	7.40
7.35-15			1070	1130	1180	1240	1290	1340	1390	1440	1480	1530	1570	5½	33.86	7.50
7.60-15			1310	1400	1450	1520	1580	1640	1710	1760	1820	1880	1930	5½	36.05	7.90
7.75-15			1150	1210	1270	1330	1380	1440	1490	1540	1590	1640	1690	5½	34.53	7.65
8.00-15			1380	1470	1530	1600	1670	1730	1800	1860	1920	1980	2040	6	36.84	8.30
8.15-15			1240	1300	1370	1430	1490	1550	1610	1660	1720	1770	1820	6	35.50	8.15
8.20-15			1470	1570	1630	1710	1780	1850	1920	1980	2050	2110	2170	6	37.50	8.50
8.25-15	1030	1190	1250	1310	1380	1440	1500	1560	1620	1670	1730	1780	1830	6	37.57	8.20
8.45-15			1340	1410	1480	1550	1620	1680	1740	1800	1860	1920	1970	6	36.37	8.35

TABLE I-A (Cont'd)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR CONVENTIONAL & LOW SECTION HEIGHT BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
8.55-15	1220	1290	1360	1430	1510	1580	1640	1710	1770	1830	1890	1950	2000	6	36.57	8.45
8.85-15			1430	1510	1580	1650	1720	1790	1860	1920	1980	2040	2100	6½	37.29	8.80
8.90-15			1700	1810	1880	1970	2050	2130	2210	2290	2360	2430	2500	6½	39.54	9.30
9.00-15			1460	1540	1620	1690	1760	1830	1900	1970	2030	2090	2150	6	37.45	8.50
9.15-15			1510	1600	1680	1750	1830	1900	1970	2030	2100	2160	2230	6½	37.92	9.05
6.00-16			1075	1135	1195	1250	1300	1350	1400	1450	1500			4	34.17	6.25
6.50-16	1090	1150	1215	1280	1345	1405	1465	1525	1580	1635	1690	1740	1790	4½	35.59	6.80
6.70-16		1185	1240	1300	1355	1410	1465	1525	1580	1635	1690	1740	1795	4½	35.60	7.40
7.00-16			1365	1440	1515	1585	1650	1715	1780	1840	1900			5	37.02	7.35
7.50-16			1565	1650	1735	1810	1890	1960	2035	2105	2175			5½	38.78	8.00
6.50-17		1215	1275	1330	1390	1450	1500	1560	1620	1680	1740	1795	1850	5	37.00	7.60

1. The letter "H", "S", or "V" may be included in any specified tire size designation adjacent to or in place of the "dash".
2. Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

CGSB 97-GP-109
24 May 1968

(1)

TABLE I-B

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR "70 SERIES" BIAS PLY TIRES

Tire size 1/ Designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)														Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40				
D70-13	890	950	1010	1070	1120	1170	1220	1270	1320	1360	1410	1450	1490	5½	32.32	8.00	
D70-14			1010	1070	1120	1170	1220	1270	1320	1360	1410	1450	1490	5½	32.87	7.85	
E70-14			1070	1130	1190	1240	1300	1350	1400	1440	1490	1540	1580	5½	33.45	8.05	
F70-14			1160	1220	1280	1340	1400	1450	1500	1550	1610	1650	1700	5½	34.18	8.30	
G70-14			1250	1310	1380	1440	1500	1560	1620	1680	1730	1780	1830	6	35.14	8.75	
H70-14			1360	1440	1510	1580	1650	1710	1770	1830	1890	1950	2010	6	36.19	9.10	
J70-14			1430	1500	1580	1650	1720	1790	1860	1920	1980	2040	2100	6½	36.91	9.50	
L70-14			1520	1600	1680	1750	1830	1900	1970	2040	2100	2170	2230	6½	37.59	9.80	
D70-15			1010	1070	1120	1170	1220	1270	1320	1360	1410	1450	1490	5½	33.34	7.75	

TABLE I-B

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR "70 SERIES" BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
E70-15			1070	1130	1190	1240	1300	1350	1400	1440	1490	1540	1580	6	34.17	8.10
F70-15			1160	1220	1280	1340	1400	1450	1500	1550	1610	1650	1700	6	34.91	8.35
G-70-15			1250	1310	1380	1440	1500	1560	1620	1680	1730	1780	1830	6	35.68	8.60
H70-15			1360	1440	1510	1580	1650	1710	1770	1830	1890	1950	2010	6	36.68	8.95
J70-15			1430	1500	1580	1650	1720	1790	1860	1920	1980	2040	2100	6½	37.34	9.35
K70-15			1460	1540	1620	1690	1770	1830	1900	1970	2030	2090	2150	6½	37.62	9.40
L70-15			1520	1600	1680	1750	1830	1900	1970	2040	2100	2170	2230	6½	38.09	9.60

1. The letter "H", "S", or "V" may be included in any specified tire size designation adjacent to or in place of the "dash".
2. Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-C

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TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)														Test rim width (inches)	Minimum size factor (inches)	Section 2 width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40				
"Super Balloon" Sizes																	
5.20-10	350	395	440	485	530	555	575	605	625	650	670	695	715	3½	24.84	5.20	
5.90-10	385	430	475	515	550	580	605	630	650	675	700			4	24.00	5.80	
5.20-12	395	445	495	545	595	625	655	685	710	735	760	785	810	3½	26.79	5.20	
5.60-12	460	520	575	620	670	715	760	795	825	855	885	915	940	4	27.83	5.71	
5.90-12	460	505	550	595	640	665	700	730	755	785	810			4	26.00	5.90	
6.20-12	505	555	605	655	705	735	775	805	835	865	895			4½	27.00	6.30	
5.20-13	430	485	540	590	640	670	710	740	765	795	820	850	875	3½	27.72	5.20	
5.60-13	495	560	620	675	725	770	810	850	880	910	945	975	1005	4	28.92	5.71	
5.90-13	555	625	695	755	815	860	895	935	970	1005	1040	1075	1105	4	29.74	5.91	
6.20-13	520	580	640	700	750	780	820	850	880	910	945			4½	28.00	6.30	

TABLE I-C (Cont'd)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
6.40-13	630	705	785	845	915	945	985	1025	1060	1100	1140	1175	1210	4½	31.26	6.42
6.70-13	690	775	860	935	1000	1045	1090	1135	1175	1220	1260	1305	1340	4½	32.14	6.69
6.90-13	695	745	795	845	915	955	1005	1045	1085	1120	1160			5	30.00	7.20
5.20-14	475	535	595	645	695	735	785	825	855	885	915	945	975	3½	28.89	5.20
5.60-14	530	595	660	715	770	815	855	890	920	955	990	1020	1050	4	29.94	5.71
5.90-14	585	660	730	785	850	880	925	970	1005	1040	1080	1115	1145	4	30.76	5.91
6.40-14	660	745	825	890	960	1000	1050	1090	1130	1170	1210	1250	1290	4½	32.19	6.42
6.45-14			860	910	960	1000	1040	1080	1120					4½	30.92	6.60
5.20-15	505	570	630	685	740	780	830	870	900	935	965	1000	1030	3½	29.75	5.20
5.60-15	555	625	695	755	815	860	895	935	970	1005	1040	1075	1105	4	30.87	5.71
5.90-15	615	695	770	825	890	935	980	1015	1050	1090	1130	1165	1200	4	31.77	5.91

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(3)

TABLE I-C(Cont'd)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
6.40-15			875	950	1010	1055	1100	1150	1190	1230	1260			4½	33.20	6.42
"Low Section" Sizes																
5.00-12	370	420	465	505	540	565	580	605	625	650	670	695	715	3½	25.62	5.04
5.50-12	415	470	520	560	605	635	665	695	720	745	770	800	820	4	26.93	5.59
6.00-12	485	545	605	655	705	735	785	815	845	875	905	935	965	4½	28.33	6.14
5.00-13	410	460	510	545	585	610	635	660	685	710	735	755	780	3½	26.64	5.04
5.50-13	445	495	550	595	640	670	710	740	765	795	820	850	875	4	27.95	5.59
7.25-13	730	825	915	990	1070	1110	1160	1200	1245	1290	1335	1380	1420	5	32.51	7.24
7.50-13	775	875	970	1040	1120	1180	1225	1270	1315	1365	1410	1460	1500	5½	33.22	7.48
5.50-15L	505	570	630	675	725	760	800	840	870	900	935	965	995	4	29.97	5.59
6.00-15L	595	665	740	800	860	890	930	970	1005	1040	1080	1115	1145	4½	31.29	6.14
6.50-15L	675	755	840	900	970	1010	1060	1105	1145	1185	1230	1270	1305	4½	32.68	6.54

TABLE I-C (Cont'd)

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(4)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
7.00-15L	760	855	950	1025	1100	1145	1190	1235	1280	1325	1375	1420	1460	5	33.85	7.01
"Super Low Section" Sizes																
145-10/5.95-10	380	430	475	515	550	580	605	630	650	675	700	725	745	4	24.76	5.79
125-12/5.35-12	335	380	420	450	485	510	535	550	570	590	610	630	650	3½	24.68	5.00
135-12/5.65-12	370	420	465	505	540	570	590	620	640	665	690	710	730	4	25.53	5.39
145-12/5.95-12	440	495	550	595	640	665	700	730	755	785	810	840	865	4	26.69	5.79
155-12/6.15-12	485	545	605	655	705	735	775	805	835	865	895	925	950	4½	27.36	6.18
135-13/5.65-13	415	470	520	555	595	625	655	685	710	735	760	785	810	4	26.53	5.39
145-13/5.95-13	470	525	585	620	670	705	745	770	800	825	855	885	910	4	27.61	5.79
155-13/6.15-13	515	575	640	700	750	780	820	850	880	910	945	975	1005	4½	28.44	6.18
165-13/6.45-13	575	645	715	770	825	865	905	935	970	1005	1040	1075	1105	4½	29.52	6.57
175-13/6.95-13	635	715	795	845	915	955	1005	1045	1085	1120	1160	1200	1235	5	30.34	7.01
185-13/7.35-13	695	785	870	945	1010	1060	1115	1160	1205	1245	1290	1335	1370	5½	31.41	7.40

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TABLE I-C (Cont'd)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)														Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40				
135-14/5.65-14	440	495	550	595	640	665	700	730	755	785	810	840	865	4	27.54	5.59	
145-14/5.95-14	495	560	620	665	715	750	785	815	845	875	905	935	965	4	28.54	5.79	
155-14/6.15-14	540	610	675	730	780	825	860	895	925	960	995	1030	1060	4½	29.45	6.18	
125-15/5.35-15	395	445	495	535	570	600	625	650	675	700	720	745	770	3½	27.69	5.00	
135-15/5.65-15	460	520	575	610	660	690	720	750	775	805	835	860	885	4	28.53	5.39	
145-15/5.95-15	520	585	650	710	760	790	830	860	890	925	955	985	1015	4	29.54	5.79	
155-15/6.35-15	585	660	730	780	835	875	915	950	985	1020	1055	1090	1125	4½	30.45	6.18	
175-15/7.15-15	705	795	880	955	1020	1070	1125	1170	1215	1255	1300	1345	1385	5	32.42	7.01	
165-14	650	715	770	815	880	925	970	1000	1035	1080	1115	1145	1170	4½	31.22	6.57	
175-14	715	780	850	915	980	1025	1070	1115	1160	1200	1235	1270	1310	5	32.13	7.01	
185-14	805	870	940	1000	1080	1135	1190	1235	1290	1325	1370	1400	1435	5½	33.15	7.40	
195-14	860	950	1025	1105	1180	1235	1290	1345	1400	1445	1490	1535	1580	5½	34.18	7.80	

TABLES I-C (Cont'd)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR BIAS PLY TIRES

Tire size 1/ Designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)														Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40				
205-14	940	1025	1115	1190	1270	1335	1400	1455	1510	1565	1610	1655	1700	6	35.36	8.19	
215-14	1015	1115	1200	1290	1380	1445	1520	1590	1640	1700	1740	1785	1830	6	36.30	8.58	
225-14	1080	1180	1280	1380	1465	1540	1620	1700	1750	1810	1850	1915	1970	6½	37.25	8.98	
165-15	685	750	805	860	915	970	1015	1060	1105	1135	1180	1200	1235	4½	32.16	6.57	
185-15	815	905	970	1050	1115	1180	1235	1280	1325	1370	1410	1445	1490	5½	34.09	7.40	
195-15	880	970	1060	1135	1215	1280	1335	1390	1445	1450	1535	1580	1620	5½	35.12	7.80	
205-15	970	1060	1145	1225	1300	1370	1445	1500	1565	1610	1665	1720	1765	6	36.30	8.19	
215-15	1050	1145	1235	1335	1435	1500	1590	1640	1700	1740	1800	1850	1910	6	37.24	8.58	
235-15	1150	1295	1435	1545	1660	1735	1825	1895	1965	2035	2110	2180	2245	6½	38.26	9.37	
5.0-15	460	520	575	610	660	690	720	750	775	805	835	860	885	4	28.53	5.39	
5.5-15	520	585	650	710	760	790	830	860	890	925	955	985	1015	4	29.54	5.79	

1. The letter "H", "S", or "V" may be included in any specified tire size designation adjacent to or in place of the "dash".
2. Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

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(1)

TABLE I-D
TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR DASH (-) RADIAL PLY TIRES

Tire size designation ^{1/}	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section width ^{2/} (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
145-10	495	525	545	565	585	605	625	640	655	670	685	700	710	4	24.76	5.79
125-12	405	430	445	465	480	495	505	525	535	550	560	575	580	3½	24.68	5.00
135-12	480	510	530	550	565	585	600	620	635	650	665	675	685	4	25.53	5.39
145-12	570	605	625	650	675	695	715	740	760	775	790	805	815	4	26.69	5.79
155-12	630	670	695	720	745	770	795	820	840	860	875	890	905	4½	27.36	6.18
135-13	515	545	565	590	610	630	650	670	690	705	715	730	740	4	26.53	5.39
145-13	605	640	665	695	720	740	765	790	815	830	845	855	870	4	27.61	5.79
155-13	670	710	735	765	790	815	840	870	895	910	925	940	955	4½	28.44	6.18
165-13	700	750	800	850	890	930	970	1010	1050	1090	1130	1170	1200	4½	29.52	6.57
175-13			810	860	920	980	1040	1100	1150	1200	1240	1300	1350	4½	30.30	6.75
185-13			870	940	1010	1080	1140	1210	1270	1330	1390	1450	1510	5	31.42	7.25

TABLE I-D (Cont'd)
TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR DASH (-) RADIAL PLY TIRE

CGSR 97-GP-109 (2)
24 May 1963

Tire size designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section width 2/ (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
195-13			970	1040	1110	1180	1250	1320	1400	1450	1520	1580	1640	5½	32.38	7.70
135-14	555	585	610	635	655	675	695	720	740	750	765	780	790	4	27.54	5.39
145-14	645	680	710	735	760	785	810	840	865	885	905	920	935	4	28.54	5.79
155-14	630	680	720	760	800	840	880	920	950	980	1010	1040	1070	4½	29.45	6.18
165-14	740	790	840	890	940	980	1020	1060	1100	1140	1180	1220	1250	4½	30.53	6.57
175-14			830	900	960	1030	1100	1160	1230	1280	1350	1400	1470	5	31.63	7.00
185-14			920	1000	1070	1140	1220	1290	1360	1420	1500	1560	1640	5	32.59	7.30
195-14			1020	1100	1180	1270	1340	1420	1500	1570	1650	1720	1800	5½	33.69	7.80
205-14			1100	1180	1270	1380	1450	1540	1620	1700	1770	1860	1940	6	34.82	8.80
215-14			1200	1300	1390	1510	1580	1670	1770	1850	1920	2010	2100	6	35.79	8.90
225-14			1320	1420	1510	1610	1710	1800	1900	1970	2050	2150	2230	6½	36.44	8.95

TABLE I-D (Cont'd)
TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR DASH (-) RADIAL PLY TIRES

CGSR 97-GP-109
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(3)

Tire size designation ^{1/}	Maximum tire load (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section width ^{2/} (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
125-15	495	525	545	565	585	605	625	640	655	670	685	700	710	3½	27.69	5.00
135-15	585	620	645	670	695	715	735	755	775	795	810	825	840	4	28.53	5.39
145-15	680	720	750	780	805	830	855	875	895	920	940	960	975	4	29.54	5.79
155-15	740	785	815	850	880	905	930	955	980	1005	1025	1045	1060	4½	30.45	6.18
165-15	770	820	870	920	970	1020	1070	1110	1150	1190	1230	1270	1310	4½	31.45	6.57
175-15			990	1050	1100	1150	1200	1250	1300	1350	1400	1440	1480	5	32.41	7.00
180-15	925	980	1020	1060	1095	1130	1170	1190	1230	1260	1280	1305	1325	4½	32.04	6.62
185-15			1000	1070	1140	1210	1280	1350	1420	1480	1540	1600	1660	5½	33.58	7.45
195-15			1080	1160	1240	1330	1400	1470	1550	1620	1680	1760	1820	5½	34.22	7.65
205-15			1190	1280	1370	1450	1530	1620	1700	1760	1840	1920	2000	6	35.20	8.10
215-15			1280	1380	1480	1570	1660	1760	1860	1940	2020	2100	2200	6	36.00	8.35

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TABLE I-D (Cont'd)
TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR DASH (-) RADIAL PLY TIRES

Tire size designation ^{1/}	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section width ^{2/} (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
225-15			1370	1470	1580	1670	1780	1880	1980	2060	2150	2240	2340	6½	36.94	8.80
235-15			1430	1540	1640	1750	1850	1960	2060	2160	2250	2350	2450	6½	37.75	9.05
185-16			1140	1210	1270	1330	1390	1450	1500	1550	1600	1650	1700	5½	34.14	7.40
165-400	800	860	920	980	1030	1080	1130	1180	1220	1260	1300	1340	1380	4.65	32.04	6.62

TABLE I-E

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR "77 SERIES" BIAS PLY TIRES

Tire size designation ^{1/}	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section width ^{2/} (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
677 - 14			1250	1310	1380	1440	1500	1560	1620	1680	1730	1780	1830	6	35.04	8.45
5.9 - 10	385	430	475	515	550	580	605	630	660	675	700			4	24.00	5.80
5.9 - 12	460	505	550	595	640	665	700	730	755	785	810			4	26.00	5.90
6.2 - 12	485	545	605	655	705	735	775	805	835	865	895	925	950	4	27.21	6.06
6.2 - 13	515	575	640	700	750	780	820	850	880	910	945	975	1005	4	28.19	6.06
6.9 - 13	635	715	795	845	915	955	1005	1045	1085	1120	1160			4½	29.92	6.77
6.2 - 15	585	660	730	780	835	875	915	950	985	1020	1055	1090	1125	4	30.17	6.06
6.9 - 15	705	795	880	955	1020	1070	1125	1170	1215	1255	1300	1345	1385	4½	31.93	6.77

1. The letter "H", "S", or "V" may be included in any specified tire size designation adjacent to or in place of the "dash".

2. Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

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TABLE I-F

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR DASH (-) RADIAL PLY TIRES

Tire size 1/ Designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
5.20-10	435	460	485	510	535	560	585	615	635	660	685	710	735	3½	24.84	5.20
5.00-12	480	495	515	535	555	575	595	615	635	650	670	690	710	3½	25.62	5.04
5.20-12	515	540	565	590	615	640	665	695	715	740	765	790	815	3½	26.79	5.20
5.50-12	520	545	570	595	620	650	670	705	725	750	775	800	825	4	26.93	5.59
5.60-12	600	630	655	685	715	740	770	800	825	850	875	905	930	4	27.83	5.71
5.00-13	535	555	575	590	615	630	650	670	690	705	725	745	765	3½	26.64	5.04
5.20-13	570	595	620	645	670	695	720	750	770	795	820	845	870	3½	27.72	5.20
5.50-13	575	600	625	650	675	695	725	750	775	795	825	850	875	4	27.95	5.59
5.60-13	655	685	710	740	765	795	825	855	880	905	935	960	990	4	28.92	5.71
6.00-13	675	705	735	760	790	815	845	875	900	925	950	975	1005	4	29.37	6.00
5.90-13	705	780	805	830	860	885	915	940	965	990	1015	1045	1070	4	29.74	5.91
6.40-13	810	840	870	905	940	970	1005	1040	1070	1100	1135	1165	1200	4½	31.26	6.42
6.50-13	800	830	860	890	925	960	995	1030	1060	1090	1120	1150	1180	4½	30.75	6.60
6.70-13	690	775	860	935	1000	1045	1090	1135	1175	1220	1260	1305	1340	4½	32.14	6.69
7.00-13	870	910	950	985	1025	1060	1100	1145	1175	1215	1255	1295	1335	5	31.88	7.10
7.25-13	940	980	1020	1060	1100	1135	1175	1215	1255	1290	1330	1370	1410	5	32.51	7.24

TABLE I-F (Cont'd)

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(2)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR DASH (-) TYPE RADIAL PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
5.20-14	605	640	670	700	730	760	795	830	855	885	915	950	980	3½	28.89	5.20
5.90-14	750	785	815	845	875	905	935	970	995	1025	1055	1085	1115	4	30.76	5.91
7.00-14	925	960	1000	1040	1075	1115	1155	1195	1235	1270	1320	1350	1380	5	32.88	7.10
7.50-14	1065	1100	1140	1180	1220	1260	1300	1340	1380	1415	1460	1500	1540	5½	34.19	7.65
5.60-15	705	780	805	830	860	885	915	940	965	990	1015	1045	1070	4	30.87	5.71
6.40-15	885	925	965	1005	1040	1080	1120	1160	1200	1235	1275	1310	1350	4½	33.26	6.42
6.70-15	975	1015	1055	1095	1130	1170	1215	1255	1290	1325	1365	1405	1445	4½	33.95	7.00
7.60-15	1160	1200	1245	1285	1325	1370	1415	1465	1500	1535	1575	1610	1655	5½	36.00	7.90

1. The letter "H", "S", or "V" may be included in any specified tire size designation adjacent to or in place of the "dash".
2. Actual section width and overall width shall not exceed the specified width by more than 7 percent.

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24 May 1968

(1)

TABLE I-G

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR "70 SERIES" TYPE "R" RADIAL PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)												Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)	
	16	18	20	22	24	26	28	30	32	34	36	38				40
DR70-14			1010	1070	1120	1170	1220	1270	1320	1360	1410	1450	1490	5½	32.78	7.90
ER70-14			1070	1130	1190	1240	1300	1350	1400	1440	1490	1540	1580	5½	33.42	8.10
FR70-14			1160	1220	1280	1340	1400	1450	1500	1550	1610	1650	1700	6	34.34	8.55,
GR70-14			1250	1310	1380	1440	1500	1560	1620	1680	1730	1780	1830	6	35.12	8.85
HR70-14			1360	1440	1510	1580	1650	1710	1770	1830	1890	1950	2010	6½	36.31	9.40
JR70-14			1430	1500	1580	1650	1720	1790	1860	1920	1980	2040	2100	6½	36.86	9.55
LR70-14			1520	1600	1680	1750	1830	1900	1970	2040	2100	2170	2230	6½	37.59	9.80
DR70-15			1010	1070	1120	1170	1220	1270	1320	1360	1410	1450	1490	5½	33.34	7.75

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TABLE I-G

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR "70 SERIES" TYPE "R" RADIAL PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)												Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)	
	16	18	20	22	24	26	28	30	32	34	36	38				40
ER70-15			1070	1130	1190	1240	1300	1350	1400	1440	1490	1540	1580	5½	33.91	7.95
FR70-15			1160	1220	1280	1340	1400	1450	1500	1550	1610	1650	1700	6.	34.87	8.40
GR70-15			1250	1310	1380	1440	1500	1560	1620	1680	1730	1780	1830	6	35.65	8.65
HR70-15			1360	1440	1510	1580	1650	1710	1770	1830	1890	1950	2010	6½	36.83	9.20
JR70-15			1430	1500	1580	1650	1720	1790	1860	1920	1980	2040	2100	6½	37.31	9.40
KR70-15			1460	1540	1620	1690	1770	1830	1900	1970	2030	2090	2150	6½	37.62	9.50
LR70-15			1520	1600	1680	1750	1830	1900	1970	2040	2100	2170	2230	6½	38.06	9.65

1. The letter "H", "S", or "V" may be included in any specified tire size designation adjacent to or in place of the "dash".
2. Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

TABLE I-H

CGSB 97-GP-109
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(1)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR TYPE "R" PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures. (psi)													Test rim width (inches)	Minimum size factor (inches)	Section width2/ (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
145R13			665	700	735	770	800	835	860	890	920	950	980	4	27.59	5.79
155R13			730	770	810	845	885	915	950	985	1015	1045	1075	4½	28.44	6.18
165R13			770	820	860	900	930	970	1010	1040	1080	1110	1140	4½	29.18	6.40
175R13			890	930	980	1030	1070	1110	1150	1190	1230	1270	1300	4½	30.30	6.75
185R13			980	1030	1080	1130	1180	1230	1270	1310	1360	1400	1440	5	31.42	7.25
195R13			1060	1110	1170	1220	1280	1320	1370	1420	1470	1510	1550	5½	32.38	7.70
155R14			780	820	860	900	940	970	1010	1040	1080	1110	1140	4	29.51	6.05
165R14			860	910	960	1000	1040	1080	1120	1160	1200	1240	1270	4½	30.65	6.55
175R14			950	1000	1050	1100	1140	1190	1230	1270	1310	1350	1390	5	31.63	7.00
185R14			1040	1100	1160	1210	1260	1310	1360	1400	1450	1490	1540	5	32.59	7.30
195R14			1150	1210	1270	1330	1390	1440	1500	1550	1600	1650	1690	5½	33.69	7.80
205R14			1250	1310	1380	1440	1500	1560	1620	1670	1730	1780	1830	6	34.82	8.30
215R14			1360	1430	1510	1580	1640	1710	1770	1830	1890	1950	2000	6	35.79	8.60
225R14			1430	1510	1580	1660	1730	1790	1860	1920	1990	2050	2100	6½	36.44	8.95
165R15			870	910	960	1000	1050	1090	1130	1170	1200	1240	1270	4½	31.18	6.40
175R15			950	1000	1050	1100	1140	1190	1230	1270	1320	1360	1390	5	32.30	6.90
185R15			1070	1130	1180	1240	1290	1340	1390	1440	1480	1530	1570	5½	33.58	7.45

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TABLE I-H (Cont'd)

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR TYPE "R" RADIAL PLY TIRES

Tire size ^{1/} designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)												Test rim width (inches)	Minimum size factor (inches)	Section ^{2/} width (inches)	
	16	18	20	22	24	26	28	30	32	34	36	38				40
195R15			1150	1210	1270	1330	1380	1440	1490	1540	1590	1640	1690	5½	34.22	7.65
205R15			1240	1300	1370	1430	1490	1550	1610	1660	1720	1770	1820	6	35.20	8.10
215R15			1340	1410	1480	1550	1620	1680	1740	1800	1860	1920	1970	6	36.00	8.35
225R15			1430	1510	1580	1650	1720	1790	1860	1920	1980	2040	2100	6½	36.94	8.80
235R15			1510	1600	1680	1750	1830	1900	1970	2030	2100	2160	2230	6½	37.75	9.05

^{1/} The letter "H", "S", or "V" may be included in any specified tire size designation adjacent to the "R".

^{2/} Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

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TABLE I-J

TIRE LOAD RATINGS, TEST RIMS, MINIMUM SIZE FACTORS, AND SECTION WIDTHS FOR "78 SERIES" BIAS PLY TIRES

Tire size 1/ designation	Maximum tire loads (pounds) at various cold inflation pressures (psi)													Test rim width (inches)	Minimum size factor (inches)	Section 2/ width (inches)
	16	18	20	22	24	26	28	30	32	34	36	38	40			
B78-14			870	910	960	1000	1050	1090	1130	1170	1200	1240	1280	4½	30.92	6.60
C78-14			950	1000	1050	1100	1140	1190	1230	1270	1320	1360	1400	5	31.95	7.05
D78-14			1010	1070	1120	1170	1220	1270	1320	1360	1410	1450	1490	5	32.52	7.35
E78-14			1070	1130	1190	1240	1300	1350	1400	1440	1490	1540	1580	5½	33.29	7.65
F78-14			1160	1220	1280	1340	1400	1450	1500	1550	1610	1650	1700	5½	34.04	7.90
G78-14			1250	1310	1380	1440	1500	1560	1620	1680	1730	1780	1830	6	35.02	8.35
H78-14			1360	1440	1510	1580	1650	1710	1770	1830	1890	1950	2010	6	36.06	8.70
J78-14			1430	1500	1580	1650	1720	1790	1860	1920	1980	2040	2100	6	36.58	8.80
C78-15			950	1000	1050	1100	1140	1190	1230	1270	1320	1360	1400	5	32.45	6.95
D78-15			1010	1070	1120	1170	1220	1270	1320	1360	1410	1450	1490	5	33.05	7.15
E78-15			1070	1130	1190	1240	1300	1350	1400	1440	1490	1540	1580	5	33.65	7.35
F78-15			1160	1220	1280	1340	1400	1450	1500	1550	1610	1650	1700	5½	34.56	7.70
G78-15			1250	1310	1380	1440	1500	1560	1620	1680	1730	1780	1830	5½	35.36	8.05
H78-15			1360	1440	1510	1580	1650	1710	1770	1830	1890	1950	2010	6	36.50	8.55
J78-15			1430	1500	1580	1650	1720	1790	1860	1920	1980	2040	2100	6	37.02	8.70
L78-15			1520	1600	1680	1750	1830	1900	1970	2040	2100	2170	2230	6	37.73	8.85

1/ The letter "H", "S", or "V" may be included in any specified tire size designation adjacent to or in place of the "dash".

2/ Actual section width and overall width shall not exceed the specified section width by more than 7 percent.

Table II - MINIMUM BREAKING ENERGY VALUES (INCH - POUNDS)

Table II-A -- For Bias Ply Tires

With Size Designation of 6.00 (or 155 Millimeters) and Above
and 70 Series Tires

Cord Material	Maximum Permissible Inflation Pressure		
	32 psi	36 psi	40 psi
Rayon	1650 in.-lbs.	2475 in.-lbs.	3300 in.-lbs.
Nylon or Polyester	2600 in.-lbs.	3900 in.-lbs.	5200 in.-lbs.

Table II-B -- For Bias Ply Tires

With Size Designation Below 6.00 Inches (or 155 Millimeters)

Cord Material	Maximum Permissible Inflation Pressure		
	32 psi	36 psi	40 psi
Rayon	1000 in.-lbs.	1875 in.-lbs.	2500 in.-lbs.
Nylon or Polyester	1950 in.-lbs.	2925 in.-lbs.	3900 in.-lbs.

Table II-C -- For Radial Ply Tires

Size Designation	Maximum Permissible Inflation Pressure		
	32 psi	36 psi	40 psi
Below 160 Millimeters	1950 in.-lbs	2925 in.-lbs.	3900 in.-lbs.
160 Millimeters or above	2600 in.-lbs	3900 in.-lbs.	5200 in.-lbs.

Table III

TEST INFLATION PRESSURES

Maximum permissible inflation pressure (in psi)	32	36	40
Pressure (in psi) to be used in tests for physical dimensions, bead unseating, tire strength, and tire endurance	24	28	32
Pressure (in psi) to be used in test for high speed performance.	30	34	38