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Load Inflation

Disclaimer:

Industry standards for load and inflation are in a state of change in a move towards global standardization. Goodyear is continuously updating its product line to move to these new load and inflation standards. As such, any printed material may not reflect the most current load and inflation information. For the most current data, please log on to our website at www.goodyear.com.



SELECTION OF TIRES FOR LIGHT TRUCKS, TRUCKS, BUSES, TRAILERS, AND MULTIPURPOSE PASSENGER VEHICLES AND DEFINITIONS OF TERMS

Tire Selection

Light Truck and Truck-Bus Tires — Selection of size and load range on each axle shall be based upon the highest individual wheel load. Maximum load per tire shall not be greater than the applicable load specified herein for the proper load range and usage.

Passenger Tires — Selection of size and load range on each axle shall be based on the higher individual wheel load multiplied by a service factor of 1.10. The load so obtained shall not be greater than the tire maximum load of the passenger tire selected.

Definitions of Terms

Maximum Load — The maximum load on individual tires is to be determined by the manufacturer of the **completed** vehicle, and shall include:

- a) **Curb Weight** — Defined as the manufacturer's weight of the completed vehicle with standard equipment including cab and/or utility body and the maximum capacity of engine fuel, oil, and coolant.
- b) **Driver and Occupant Weight** — Defined as 150 pounds per occupant for the vehicle's designated seating capacity. For city and city-suburban buses, occupant load is based on 150 pounds per occupant and 150% of full seated rating. For intercity buses, occupant load is based on 185 pounds per occupant (to include luggage) and 100% full seated rating.
- c) **Accessory Weight** — Means the combined weight of those installed regular production options (not previously considered in curb weight) weighing five pounds or more. If such options replace standard items, include only the excess if the excess is over five pounds.
- d) **Extra Equipment Weight** — Means the weight of any non-standard item other than accessories which are affixed to the vehicle.
- e) **Cargo Load** — Consists of weight in the cargo area. Consideration shall be given to all possible ways the user can load the vehicle approved by the manufacturer, including uneven loading side to side. The user who loads such vehicles unevenly must be responsible for reducing the maximum cargo load to prevent over-loading any tires. For intercity buses, the maximum cargo load must be included in addition to the occupant load in determining maximum tire load.
- f) **Improved Surface** — An improved surface is one which is relatively smooth and intended to handle any vehicle manufactured primarily for use on public streets, roads and highways.

INFLATION LIMITATIONS

Light Truck Tires

The inflations shown in the load tables are minimum cold pressures for the various loads listed. Higher pressures should be used as follows:

- A. When required by the speed/load table, table 1 on Page L2.
- B. When higher pressures are desirable to obtain improved operating performance.
The combined increases of **A** and **B** should not exceed **10 psi** above the inflation specified for the maximum load of the tire.
THE MAXIMUM RIM CAPACITY MUST NOT BE EXCEEDED.

Truck Tires

The inflation shown in the load tables are minimum cold pressures for the various loads listed. Higher pressures should be used as follows:

- A. When required by the speed/load table, table 2 or 3 on Page L2.
- B. When higher pressures are desirable to obtain improved operating performance.
The combined increases of **A** and **B** should not exceed **20 psi** above the inflation specified for the maximum load of the tire.
THE MAXIMUM RIM CAPACITY MUST NOT BE EXCEEDED.

See Page V for general notes and additional information.



LOAD LIMITS AT VARIOUS SPEEDS FOR DIAGONAL (BIAS) AND RADIAL PLY TRUCK TIRES USED ON IMPROVED SURFACES

(These tables do not apply to rims or wheels)

The Tire and Rim Association permits tire load increases, often with increased inflation pressure, for both Truck-Bus tires and Light Truck tires used on improved surfaces at reduced operating speeds. In addition, the Tire and Rim Association also permits operating a 65 mph-rated tire at higher speeds with a reduced load and increased inflation. (The Goodyear Tire And Rubber Company does not condone operating speeds above posted limits.) Goodyear accepts these increases, and they are published in our truck tire engineering data book. Rim and wheel manufacturers mark their products with a maximum load and inflation. This applies regardless of operating speed. The rim/wheel manufacturer must be contacted to determine if any deviation is permitted in the marked maximum load and inflation capacity of the rim or wheel at the operating condition in question. For further details and a worksheet covering the use of these tables see pages L-4 and L-5.

TABLE 1 — LIGHT TRUCK TIRES

For LT Tire Sizes Only. (i.e. LT235/85R16, LT245/75R16). For 225/70R19.5, 245/70R19.5, use table 2 below.

The service load and minimum (cold) inflation must comply with the following limitations:

SPEED RANGE (MPH)	INFLATION PRESSURE INCREASE	%INCREASE (+) OR DECREASE (-) IN LOADS
76 thru 85	+ 10 PSI	- 10%
66 thru 75	+ 10 PSI	None
56 thru 65	No Increase	None
46 thru 55	No Increase	+ 9%
36 thru 45	No Increase	+ 16%
26 thru 35	No Increase	+ 24%
16 thru 25	No Increase	+ 32%
11 thru 14 ¹⁾	+ 10 PSI	+ 50%
6 thru 10 ¹⁾	+ 10 PSI	+ 65%
1 thru 5 ¹⁾	+ 10 PSI	+ 80%
Stationary ¹⁾	+ 20 PSI	+ 165%

¹⁾ Apply load increase to dual loads only (even if tire is in single application).

TABLE 2 — TRUCK-BUS TIRES

The service load and minimum (cold) inflation must comply with the following limitations:

SPEED RANGE (MPH)	INFLATION PRESSURE INCREASE RADIAL PLY TIRES				LOAD CHANGES WITH SPEED RADIAL PLY TIRES			
	CONVENTIONAL (STD. PROFILE)		WIDEBASE/METRIC (LOW PROFILE)		CONVENTIONAL		WIDE BASE/METRIC	
	65 MPH	75 MPH	65 MPH	75 MPH	65 MPH	75 MPH	65 MPH	75 MPH
71 thru 75	+ 5 PSI	None	+ 5 PSI	None	- 12%	None	- 12%	None
66 thru 70	+ 5 PSI	None	+ 5 PSI	None	- 4%	None	- 4%	None
51 thru 65	None	None	None	None	None	None	None	None
41 thru 50	None	None	None	None	+ 9%	+ 9%	+ 7%	+ 7%
31 thru 40	None	None	None	None	+ 16%	+ 16%	+ 9%	+ 9%
21 thru 30	+ 10 PSI	+ 10 PSI	+ 10 PSI	+ 10 PSI	+ 24%	+ 24%	+ 12%	+ 12%
11 thru 20	+ 15 PSI	+ 15 PSI	+ 15 PSI	+ 15 PSI	+ 32%	+ 32%	+ 17%	+ 17%
6 thru 10 ¹⁾	+ 30 PSI	+ 30 PSI	+ 20 PSI	+ 20 PSI	+ 60%	+ 60%	+ 25%	+ 25%
2.6 thru 5 ¹⁾	+ 30 PSI	+ 30 PSI	+ 20 PSI	+ 20 PSI	+ 85%	+ 85%	+ 45%	+ 45%
Creep thru 2.5 ^{1) 2)}	+ 30 PSI	+ 30 PSI	+ 20 PSI	+ 20 PSI	+ 115%	+ 115%	+ 55%	+ 55%
Creep	+ 40 PSI	+ 40 PSI	+ 30 PSI	+ 30 PSI	+ 140%	+ 140%	+ 75%	+ 75%
Stationary ¹⁾	+ 40 PSI	+ 40 PSI	+ 30 PSI	+ 30 PSI	+ 185%	+ 185%	+ 105%	+ 105%

¹⁾ On conventional tires apply load increase to dual loads and inflations only, even if tire is in single application. ²⁾ Creep—motion for not over 200 feet in a 30 minute period.



**LOAD LIMITS AT VARIOUS SPEEDS FOR DIAGONAL (BIAS)
AND RADIAL PLY TRUCK TIRES USED ON IMPROVED SURFACES
(Continued)**

(These tables do not apply to rims or wheels)

TABLE 3 — RESTRICTED SPEED TIRES 13.00-16.00 SIZES

SPEED RANGE (MPH)	INFLATION PRESSURE INCREASE		% INCREASE IN LOADS
	DIAGONAL (BIAS) PLY TIRES	RADIAL PLY TIRES	
41 thru 50 (55 radial)	No Increase	No Increase	No Increase
31 thru 40	No Increase	No Increase	+ 7%
21 thru 30	No Increase	+ 10 PSI	+ 13%
11 thru 20	No Increase	+ 15 PSI	+ 21%

NOTE: The selection of tire sizes shall be based on meeting the requirements of maximum load as defined on Page L1.
Maximum load as defined on Page L1 must not exceed the maximum tire load limit as indicated by the bold face type in the table.
Minimum recommended cold inflation pressures for various loads must conform to the load table.

**SELECTION, LOADS AND INFLATIONS AND IDENTIFICATION
FOR RIMS AND WHEELS**

RIM SELECTION

Tires shown in this book are designed by Goodyear for use on rims which meet Tire and Rim Association Standards. To insure proper tire to rim fit, and tire mountability, it is the responsibility of the vehicle manufacturers and vehicle users to specify that the rims comply with these standards.

LOADS AND INFLATIONS FOR RIMS AND WHEELS

IMPORTANT — Rim dimensions are standardized by the Tire and Rim Association for size and contour only, and particular tire and rim combinations are designed to assure proper mounting and fit of the tire to the rim. The load and cold inflation pressure imposed on the rim and wheel must not exceed the rim and wheel manufacturers recommendations even though the tire may be approved for a higher load or inflation. Rims and wheels may be identified (stamped) with a maximum load and maximum cold inflation rating. For rims and wheels not so identified or for service conditions exceeding the rated capacities, consult the rim and wheel manufacturer to determine rim and wheel capacities for the intended service.



LOAD ADJUSTMENTS FOR SPEED

A) Load Adjustments for Increased Speed (Column A on Worksheet pg. L-5)

Speeds > 65 mph for 65 mph rated tires

(Tires restricted to less than 65mph may not be adjusted using this method)

1. Determine operating speed range required by customer.
2. Find load change required for that speed range (page L-2 of Eng. Data Book). Confirm that the table you are using is for the appropriate tire size.
3. Determine max load and inflation pressure for the tire under normal speeds using load tables. Use single max load/inflation for single applications and dual max load/inflation for dual applications.
4. Multiply the percent decrease by the tire max load.
5. Subtract the value obtained in #4 from the tire max load to determine new allowable max load.
6. Find inflation pressure increase required for the speed range desired. (This is not additive – for example, if there is a +5 PSI for 66 thru 70 mph, and +5 PSI for 71 thru 75 mph, to go 75 mph, only add 5 PSI.)
7. Add the value obtained in #6 to the inflation pressure at max load to find the new required inflation pressure.
8. Check to make sure that the rim capability is not exceeded.

B) Load Adjustments for Reduced Speed (Column B on Worksheet pg. L-5)

1. Determine operating speed range required by customer.
2. Find load change permitted for that speed range (page L-2 of Eng. Data Book). Confirm that the table you are using is for the appropriate tire size.
3. Determine max load and inflation pressure for the tire under normal speeds using load tables. Use single max load/inflation for single applications and dual max load/inflation for dual applications.
4. Multiply the percent increase by the tire max load. (Remember to use dual load only for conventional or LT sizes for speeds = 10 mph or less.)
5. Add the value obtained in #4 to the tire max load to determine new allowable max load.
6. Find inflation pressure increase required for the speed range desired.
7. Add the value obtained in #6 to the inflation pressure at max load to find the new required inflation pressure.
8. Check to make sure that the rim capability is not exceeded.

C) Check Rim Capacity for Load & Inflation Changes (Column C on Worksheet pg. L-5)

(When the required inflation pressure is above max inflation pressure capacity of rim. See rim note on page L-3.)

1. Find max inflation pressure of rim.
2. Find the inflation pressure increase required by A6 or B6.
3. Subtract the required inflation pressure increase from that max inflation pressure to get a “base” inflation pressure.
4. Determine the corresponding load for the “base” inflation pressure from the normal load tables.
5. Find the load increase required by B2.
6. Apply the percentage load increase to this “base” load.
7. Determine new max load using the max inflation pressure of the rim.
8. Check to make sure load does not exceed the rim’s load capacity.



LOAD ADJUSTMENTS FOR SPEED WORKSHEET

A) Adjustments for Increased Speed

- Tire size and load range _____
- (1) Desired speed range _____
- (2) % Load decrease required _____
- (3a) Normal max load _____
- (3b) Normal max inflat. _____
- (4) % decrease x max load
= (2)x(3a) _____
- (5) max load - decrease
= (3a)-(4) = **new max load** _____
- (6) Inflation increase required _____
- (7) Max inflation + increase
= (3b)+(6) = **new inflation pressure** _____
- (8) Do not exceed rim load and inflation capacities.

B) Adjustments for Reduced Speed

- Tire size and load range _____
- (1) Desired speed range _____
- (2) % Load increase permitted _____
- (3a) Normal max load* _____
- (3b) Normal max inflat. _____
- (4) % increase x max load
= (2)x(3a) _____
- (5) max load + increase
= (2)+(4) = **new max load** _____
- (6) Inflation increase required _____
- (7) Max inflation + increase
= (3b)+(6) = **new inflation pressure** _____
- (8) Do not exceed rim load and inflation capacities.

C) If required inflation pressure is above rim capacity

- (1) Max psi of rim _____
- (2) Psi change needed _____
- (3) Max psi - change
= (1)-(2) = "base" psi _____
- (4) Load for "base" psi
= "base" load _____
- (5) % Load increase _____
- (6) "Base" load x % increase
= (4)x(5) _____
- (7) "Base" load + increase
= (4)+(6) = **new max load** _____
- (8) Do not exceed rim load and inflation capacities.

* check table footnotes for special load considerations



PREFIX LETTERS USED BY THE TIRE AND RIM ASSOCIATION IN TIRE SIZE DESIGNATIONS AND THEIR DEFINITIONS

Prefix letters are included, when necessary, as part of Tire Size Designations to differentiate between tires designed for service conditions which may require different loads and inflations and/or tires designed for and which must be used on different types of rims.

- P** — Identifies a tire primarily intended for service on passenger cars.
- T** — Identifies a tire intended for one-position “temporary use” as a spare only.
- LT** — Identifies a tire primarily intended for service on light trucks.

SUFFIX LETTERS USED BY THE TIRE AND RIM ASSOCIATION IN TIRE SIZE DESIGNATIONS AND THEIR DEFINITIONS

Suffix letters are included, when necessary, as part of Tire Size Designations to differentiate between tires designed for service conditions which may require different loads and inflations and/or tires designed for and which must be used on different types of rims.

TRUCK-BUS

- LT** — Light Truck tires for service on Trucks, Busses, Trailers and Multipurpose Passenger Vehicles used in normal highway service for a 5° tapered bead seat rim with a specified rim diameter of nominal minus .032” diameter or with 15° tapered bead seat rim. This suffix is intended to differentiate among tires for Passenger Car, Truck-Bus and other vehicles or other services which use a similar designation. Example: 7.00-15, 7.00-15LT, 7.00-15TR.
- TR** — Tires for service on Trucks, Busses and other vehicles with rims having specified rim diameter of nominal +.156” or +.250”. This suffix is intended to differentiate among tires for Passenger Car, Light Truck, and other vehicles or other services which use similar designations. Example: 7.00-15, 7.00-15LT, 7.00-15NHS and 7.00-15TR.
- ML** — Mining and Logging tires used in intermittent highway service.
- MH** — Tires for Mobile Homes.
- HC** — Identifies a heavy duty tire designated for use on “HC” 15° tapered rims used on Trucks, Busses, and other vehicles. This suffix is intended to differentiate among tires for Light Trucks and other vehicles or other services which use a similar designation. Example: 8R17.5LT, 8R17.5HC.
- ST** — Special Tires for Trailers in Highway Service.

OFF-THE-ROAD

- NHS** — Not for highway service.
- TG** — Tractor-Grader Tires — Not for highway service.
- K** — Compactor tire for use on 5° Drop Center or Semi-Drop Center Rims having bead seats with nominal minus .032” diameter.

INDUSTRIAL

- NHS** — Not for highway service.
- SS** — Differentiates tires for off-highway vehicles such as mini and skid-steer loaders from other tires which use similar size designations such as 7.00-15TR and 7.00-15NHS, but may use different rim bead seat configurations.

AGRICULTURAL

- SL** — Service limited to agricultural usage.

See Page V for general notes and additional information.



SERVICE LOAD AND INFLATION TABLES LIGHT TRUCK METRIC TIRES

FOR TRUCKS, BUSES, TRAILERS AND MULTIPURPOSE PASSENGER VEHICLES USED IN NORMAL HIGHWAY SERVICE

Highway — 65 MPH

TIRE LOAD LIMITS (LBS.) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE	Radial Ply	PSI																
		35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	
DESIGNATION	Diagonal Ply, Bias Belted	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110
		TIRES MOUNTED ON 5° DROP CENTER RIMS																
70 SERIES	Dual(D) Single(S)																	
LT255/70*16	D	1565	1720	1865	1985(C)	2150	2285	2470(D)										
	S	1720	1890	2050	2205(C)	2360	2510	2680(D)										
LT265/70*17	D	1720	1890	2050	2270(C)													
	S	1890	2075	2255	2470(C)													
LT305/70*16	D	2045	2245	2440	2680(D)	2805	2980	3195(E)										
	S	2245	2465	2680	2910(D)	3085	3275	3525(E)										
75 SERIES																		
LT195/75*14	D	1015	1115	1210	1325(C)	1590	1480	1565(D)										
	S	1115	1225	1330	1435(C)	1530	1625	1710(D)										
LT195/75*15	D	1060	1165	1265	1390(C)													
	S	1165	1280	1390	1520(C)													
LT215/75*15	D	1225	1340	1455	1610(C)	1680	1785	1930(D)										
	S	1345	1475	1600	1765(C)	1845	1960	2095(D)										
LT235/75*15	D	1390	1530	1660	1820(C)	1910	2030	2150(D)										
	S	1530	1680	1825	1985(C)	2100	2230	2335(D)										
LT225/75*16	D	1365	1500	1630	1765(C)	1875	1995	2150(D)	2220	2330	2470(E)							
	S	1500	1650	1790	1940(C)	2060	2190	2335(D)	2440	2560	2680(E)							
LT245/75*16	D	1545	1695	1845	2006(C)	2125	2255	2381(D)	2515	2640	2778(E)							
	S	1700	1865	2030	2205(C)	2335	2480	2623(D)	2765	2900	3042(E)							
LT265/75*16	D	1740	1910	2075	2270(C)	2390	2540	2755(D)										
	S	1910	2100	2280	2470(C)	2625	2790	3000(D)										
LT285/75*16	D	1940	2130	2310	2535(C)	2660	2830	3000(D)										
	S	2130	2340	2540	2755(C)	2925	3110	3305(D)										
85 SERIES																		
LT215/85*16	D	1360	1490	1625	1765(C)	1865	1985	2150(D)	2210	2320	2470(E)							
	S	1495	1640	1785	1940(C)	2050	2180	2335(D)	2430	2550	2680(E)							
LT235/85*16	D	1545	1700	1845	2006(C)	2125	2260	2381(D)	2515	2645	2778(E)	2885	3005	3085(F)	3230	3345	3415(G)	
	S	1700	1870	2030	2205(C)	2335	2485	2623(D)	2765	2905	3042(E)	3170	3300	3415(F)	3550	3675	3750(G)	
LT255/85*16	D	1745	1920	2085	2270(C)	2400	2550	2755(D)										
	S	1920	2110	2290	2470(C)	2635	2800	3000(D)										

*Tire size designation will include "R" (radial ply), "B" (bias belted) or "D" (Diagonal or bias ply). Notes: 1. Letters in parenthesis denote Load Range for which Loads are Maximum.
CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M1 for Approved Tire and Rim Combinations.



SERVICE LOAD AND INFLATION TABLES

LIGHT TRUCK TIRES FOR TRUCKS, BUSES, TRAILERS AND MULTIPURPOSE PASSENGER VEHICLES
USED IN NORMAL HIGHWAY SERVICE

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE DESIGNATION	Radial Ply Diagonal Ply	PSI												
		35	40	45	50	55	60	65	70	75	80	85	90	95
TIRES MOUNTED ON 5° DROP CENTER OR SEMI DROP CENTER RIMS														
7.00*15LT	Dual(D)													
	Single(S)	1190	1310	1420	1520(C)	1620	1715	1800(D)	1870	1960	2040(E)			
7.50*16LT	D	1430	1565	1690	1815(C)	1930	2040	2140(D)	2245	2345	2440(E)			
	S	1620	1770	1930	2060(C)	2190	2310	2440(D)	2560	2670	2780(E)			

TIRES MOUNTED ON 15° DROP CENTER RIMS

8.00*16.5LT	D	1195	1310	1415	1520(C)	1620	1710	1800(D)	1885	1970	2050(E)	2130	2200	2280(F)
	S	1360	1490	1610	1730(C)	1840	1945	2045(D)	2145	2240	2330(E)	2420	2500	2590(F)
8.75*16.5LT	D	1380	1515	1630	1750(C)	1855	1970	2070(D)	2175	2260	2360(E)	2450	2540	2620(F)
	S	1570	1720	1850	1990(C)	2110	2240	2350(D)	2470	2570	2680(E)	2780	2880	2980(F)
9.50*16.5LT	D	1635	1785	1925	2070(C)	2200	2330	2445(D)	2570	2685	2790(E)			
	S	1860	2030	2190	2350(C)	2500	2650	2780(D)	2920	3050	3170(E)			

TIRE SIZE DESIGNATION	Radial Ply	PSI						
		36	40	44	47	51	55	
TIRES MOUNTED ON 5° DROP CENTER OR SEMI-DROP CENTER RIMS								
185R14C	S	1169	1257	1345	1433	1521	1710(C)	

*Tire size designation will include "R" (radial ply) or "D" (Diagonal or bias ply).

Notes: 1. Letters in parenthesis denote Load Range for which **Bold Face** Loads and Inflations are Maximum.

CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M1 for Approved Tire and Rim Combinations.



SPECIAL ST METRIC TIRES FOR TRAILERS IN HIGHWAY SERVICE

Highway Service

TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE DESIGNATION	Radial Ply	PSI													
		15	20	25	30	35	40	45	50	55	60	65	70	75	80
ST175/80*13		670	795	905	1000	1100(B)	1190	1270	1360(C)						
ST185/80*13		740	870	990	1100	1200(B)	1300	1400	1480(C)						
ST205/75*14		860	1030	1170	1300	1430(B)	1530	1640	1760(C)	1850	1950	2040(D)			
ST215/75*14		935	1110	1270	1410	1520(B)	1660	1790	1870(C)						
ST205/75*15		905	1070	1220	1360	1480(B)	1610	1720	1820(C)						
ST225/75*15		1060	1260	1430	1600	1760(B)	1880	2020	2150(C)	2270	2380	2540(D)			

*Tire size designation will include "R" (radial ply).

Notes: 1. Letters in parenthesis denote Load Range for which **Bold Face** Loads and Inflation are Maximum.

CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M1 for Approved Tire and Rim Combinations.



SERVICE LOAD AND INFLATION TABLES
PASSENGER CAR TIRES USED ON LIGHT TRUCK, TRAILERS
OR SPECIAL PURPOSE PASSENGER VEHICLES

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE DESIGNATION	Radial Ply	PSI							
		20	23	26	29	32	35	38	41
P205/70R14		992	1062	1123	1183	1243	1302(S)		
P215/70R14		1072	1153	1223	1283	1353	1412(S)		
P225/70R14		1151	1230	1310	1379	1448	1523(S)		
P205/75R14		1062	1133	1203	1273	1333	1393(S)	1443	1503(X)
P215/75R14		1153	1233	1303	1383	1443	1513(S)		
P225/75R14		1243	1333	1413	1493	1564	1634(S)		
P235/70R15		1313	1403	1493	1574	1644	1724(S)		
P245/70R15		1413	1513	1604	1684	1774	1843(S)	1924	1995(X)
P195/75R15		1022	1092	1163	1223	1283	1343(S)		
P205/75R15		1113	1193	1263	1333	1393	1453(S)		
P215/75R15		1203	1293	1373	1443	1513	1584(S)	1644	1704(X)
P225/75R15		1303	1393	1483	1564	1634	1704(S)	1774	1844(X)
P235/75R15		1403	1503	1594	1684	1764	1844(S)	1914	1985(X)
P255/75R15		1697	1865	1975	2084	2183	2282(S)		
P265/75R15		1734	1854	1964	2075	2175	2245(S)		
P225/70R16		1273	1363	1443	1523	1594	1654(S)		
P235/70R16		1373	1463	1554	1644	1714	1804(S)		
P245/70R16		1473	1574	1674	1764	1844	1905(S)		
P255/70R16		1574	1684	1784	1884	1975	2065(S)		
P265/70R16		1684	1804	1914	2015	2115	2185(S)		
P225/75R16		1363	1453	1544	1624	1704	1805(S)	1854	1904(X)
P235/75R16		1463	1574	1664	1754	1844	1904(S)		
P245/75R16		1574	1684	1784	1884	1975	2065(S)		
P265/75R16		1804	1934	2045	2155	2265	2365(S)		
P265/70R17		1754	1874	1995	2105	2205	2305(S)		

*Loads have been reduced by a service factor of 1.10 for passenger tires used on light trucks, trailers or multi-purpose passenger vehicles.

Note: Letters in parenthesis denote Load Range for which **Bold Face** Loads are Maximum.

CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M1 for Approved Tire and Rim Combinations.



SERVICE LOAD AND INFLATION TABLES
 PASSENGER CAR TIRES USED ON LIGHT TRUCK, TRAILERS
 OR SPECIAL PURPOSE PASSENGER VEHICLES

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE DESIGNATION	Radial Ply	PSI	23	26	29	32	36
		20					
225/75R15			1193	1313	1423	1533	1704(LI 102)
235/75R15			1293	1423	1554	1674	1854(LI 105)
205R16			1082	1193	1303	1403	1554(LI 99)
255/65R16			1443	1583	1724	1864	2065(LI 109)
215/70R16			1122	1233	1343	1443	1604(LI 100)
225/70R16			1193	1313	1423	1533	1704(LI 102)
235/70R16			1293	1423	1554	1674	1854(LI 105)
245/70R16			1363	1503	1634	1764	1954(LI 107)
255/70R16			1533	1684	1824	1974	2185(LI 111)
255/55R18			1443	1583	1724	1864	2065(LI 109)

*Loads have been reduced by a service factor of 1.10 for passenger tires used on light trucks, trailers or multi-purpose passenger vehicles.

Note: Letters in parenthesis denote Load Index for which **Bold Face** Loads are Maximum.

CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M1 for Approved Tire and Rim Combinations.



**LIGHT TRUCK HIGH FLOTATION TIRES
FOR TRUCKS, TRAILERS AND MULTIPURPOSE PASSENGER VEHICLES IN NORMAL HIGHWAY SERVICE
TIRES USED AS SINGLES**

TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE DESIGNATION	Radial Ply Bias Ply	PSI					
		25	30	35	40	45	50
TIRES MOUNTED ON 5° DROP CENTER RIMS							
30x9.50*15LT		1240	1410	1570(B)	1715	1855	1990(C)
31x10.50*15LT		1400	1595	1775(B)	1945	2100	2250(C)
31x11.50*15LT		1455	1660	1845(B)	2020	2185	2340(C)
32x11.50*15LT		1575	1795	1995(B)	2185	2360	2530(C)
33x12.50*15LT		1755(B)	2000	2225(C)			
35x12.50*15LT		2015	2295	2535(C)			
35x12.50*17LT		1890	2155	2400(C)			
TIRES MOUNTED ON 15° DROP CENTER RIMS							
33x12.50*16.5LT				2310(C)	2530	2735	2930(D)
36x12.50*16.5LT				2850(C)	3120	3375	3615(D)
37x12.50*16.5LT				3035(C)	3320	3590	3850(D)

*Tire size designation will include "R" (radial ply).

Note: Letters in parenthesis denote Load Range for which **Bold Face** Loads are Maximum.

CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M1 for Approved Tire and Rim Combinations.



SERVICE LOAD AND INFLATION TABLE
 TIRES FOR TRUCKS, BUSES AND TRAILERS USED IN HIGHWAY SERVICE
 RADIAL PLY

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE	Dual(D) Single(S)	PSI															
		65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
750R17	8R19.5	D	2350	2460	2570	2700(D)	2780	2880	3000(E)	3070	3160	3375(F)					
		S	2410	2540	2680	2800(D)	2930	3060	3170(E)	3280	3400	3500(F)					
8.25R20	9R22.5	D	3120	3270	3410	3550(E)	3690	3820	3950(F)	4070	4200	4320(G)					
		S	3190	3370	3560	3730	3890	4050(E)	4210	4350	4500(F)	4640	4790	4920(G)			
9.00R20	10R22.5	D	3690	3870	4040	4200	4375(E)	4520	4670	4875(F)	4970	5110	5250(G)				
		S	3770	4000	4210	4410	4610(E)	4790	4970	5150(F)	5320	5490	5680(G)				
10.00R20	11R22.5	D				4760(F)	4950	5120	5300	5470	5750(G)	5800(H)					
		S				4990	5220	5430(F)	5640	5840	6175(G)	6240	6430	6610(H)			
10.00R22	11R24.5	D				5070(F)	5260	5450	5640	5820	6000(G)	6170(H)					
		S				5310	5550	5780(F)	6000	6210	6430(G)	6630	6840	7030(H)			
11.00R20	12R22.5	D				5190(F)	5390	5590	5780(G)	5960	6150	6320	6500	6750(H)			
		S				5450	5690	5920(F)	6140	6370	6590(G)	6790	7010	7390(H)			
11.00R22	12R24.5	D				5520(F)	5730	5940	6140(G)	6330	6530	6720(H)					
		S				5790	6040	6290(F)	6530	6770	7000(G)	7220	7440	7660(H)			
11.00R24		D				5860(F)	6090	6310	6520(G)	6730	6930	7130(H)					
		S				6140	6420	6680(F)	6940	7190	7430(G)	7670	7900	8130(H)			
12.00R24		D				6650	6910(G)	7160	7410	7640(H)	7870	8100(J)					
		S				6980	7280	7580	7880(G)	8160	8450	8710(H)	8970	9230(J)			

HIGHWAY — 55 MPH MAXIMUM SPEED

14.00R20	D				8120	8430	8740(J)	9030	9320	9610(L)						
		S			8510	8890	9260	9610	9960(J)	10300	10620	10960(L)				

Note: Letters in parenthesis denote Load Range for which **Bold Face** loads are maximum.
 See Pages M2 and M3 for Approved Tire and Rim Combinations.
 CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours.



RADIAL PLY TIRES FOR TRUCKS, BUSES AND TRAILERS USED IN NORMAL HIGHWAY SERVICE
TIRE AND RIM ASSOCIATION STANDARD

TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE DESIGNATION	Radial Ply	PSI										
		70	75	80	85	90	95	100	105	110	115	120
		TIRES MOUNTED ON 15° DROP CENTER RIMS										
	Dual(D) Single(S)											
9.00R20 10R22.5	D	3860	4045	4230	4410(E)	4585	4760	4940(F)	5075	5210	5355(G)	
	S	4080	4280	4480	4675(E)	4850	5025	5205(F)	5360	5515	5675(G)	
10.00R20 11R22.5	D	4380	4580	4760	4950	5205(F)	5415	5625	5840(G)	5895	5950	6005(H)
	S	4530	4770	4990	5220	5510(F)	5730	5950	6175(G)	6320	6465	6610(H)
11R24.5	D	4660	4870	5070	5260	5510(F)	5675	5840	6005(G)	6205	6405	6610(H)
	S	4820	5070	5310	5550	5840(F)	6095	6350	6610(G)	6790	6970	7160(H)
11.00R20 12R22.5	D	4780	4990	5190	5390	5675(F)	5785	5895	6005(G)	6265	6525	6780(H)
	S	4940	5200	5450	5690	6005(F)	6205	6405	6610(G)	6870	7130	7390(H)
11.00R22 12R24.5	D	5080	5300	5520	5730	5840(F)	6095	6350	6610(G)	6790	6970	7160(H)
	S	5240	5520	5790	6040	6395(F)	6650	6910	7160(G)	7380	7600	7830(H)

Note: Letters in parenthesis denote Load Range for which **Bold Face** Loads are Maximum.

CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Pages M2 and M3 for Approved Tire and Rim Combinations.



SERVICE LOAD AND INFLATION TABLE
 METRIC TIRES FOR TRUCKS, BUSES AND TRAILERS USED IN NORMAL HIGHWAY SERVICE
 RADIAL PLY TIRES

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE	Dual(D) Single(S)	(The pressure is minimum for the load)												
		PSI 70	75	80	85	90	95	100	105	110	115	120	125	130
TUBELESS TIRES MOUNTED ON 15° DROP CENTER RIMS														
215/75R17.5	D					3490	3645	3800	3950	4100	4245	4395	4540(H)	
	S					3695	3860	4020	4180	4340	4495	4650	4805(H)	
235/75R17.5	D	3570	3770	3970	4170	4365	4555	4745	4935	5125	5310	5495	5675(H)	
	S	3775	3990	4200	4410	4615	4820	5025	5225	5420	5620	5810	6005(H)	
225/70R19.5	D	2720	2860	3000(E)	3115	3245	3415(F)	3490	3615	3750(G)				
	S	2895	3040	3195(E)	3315	3450	3640(F)	3715	3815	3970(G)				
245/70R19.5	D	3415	3515	3655	3875(F)	3940	4075	4375(G)	4500	4625(H)				
	S	3640	3740	3890	4080(F)	4190	4335	4545(G)	4620	4805(H)				
265/70R19.5	D			3750	3930	4095	4300	4405	4560	4805	4860	5070(G)		
	S			3970	4180	4355	4540	4685	4850	5070	5170	5355(G)		
255/70R22.5	D	3585	3765	3970	4110	4275	4410	4455	4610	4675(G)	5070(H)			
	S	3815	4005	4190	4370	4550	4675	4895	5065	5205(G)	5510(H)			
275/70R22.5	D				4535	4750	4960	5165	5370	5575	5775	5975	6175(H)	
	S				4885	5080	5305	5530	5750	5965	6185	6400	6610(H)	
245/75R22.5	D	3260	3425	3640	3740	3890	4080	4190	4335	4410(G)	4475	4675(H)		
	S	3470	3645	3860	3980	4140	4300	4455	4610	4675(G)	4915	5205(H)		
265/75R22.5	D		4040	4205	4370	4525	4685	4805(G)						
	S		4070	4255	4440	4620	4800	4975	5150	5205(G)				
275/80R22.5	D				4855	5080	5305	5525	5745	5965	6180	6395(H)		
	S				5265	5515	5755	6000	6235	6475	6710	6940(H)		
295/75R22.5	D		4690	4885	5070(F)	5260	5440	5675(G)	5800	6005(H)				
	S		4725	4945	5155	5370	5510(F)	5780	5980	6175(G)	6370	6610(H)		
285/75R24.5	D		4740	4930	5205(F)	5310	5495	5675(G)	5860	6175(H)				
	S		4770	4990	5210	5420	5675(F)	5835	6040	6175(G)	6440	6780(H)		
315/80R22.5	D				5840	6070	6395(G)	6540	6770	6940(H)	7210	7610(J)		
	S				6415	6670	6940(G)	7190	7440	7610(H)	7920	8270(J)		

HIGHWAY — 55 MPH MAXIMUM SPEED

315/80R22.5	D					6220	6425	6690	6955	7220	7480	7750(L)		
	S					6940	7460	7770	8080	8380	8690	9000(L)		

Note: 1. Letters in parentheses denote load range for which **BOLD FACE** loads are maximum.

CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M2 for Approved Tire and Rim Combinations.

LOADS



RADIAL PLY METRIC TIRES FOR TRUCKS, BUSES AND TRAILERS USED IN NORMAL HIGHWAY SERVICE
 TIRES MOUNTED ON 15° DROP CENTER RIMS
 TIRE AND RIM ASSOCIATION STANDARD

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE DESIGNATION	Dual(D) Single(S)	PSI											
		65	70	75	80	85	90	95	100	105	110	115	120
245/70R19.5	D		3415	3515	3655	3970(F)	4115	4265	4410(G)				
	S		3640	3740	3890	4080(F)	4190	4335	4540(G)				
265/70R19.5	D				3750	3930	4095	4300	4405	4415	4675(G)		
	S				3970	4180	4355	4540	4685	4850	5070(G)		
255/70R22.5	D				3970	4110	4275	4410	4455	4610	4675(G)	4915	5070(H)
	S				4190	4370	4550	4675	4895	5065	5205(G)	5400	5510(H)
305/75R22.5	D				5205	5375	5595	5840	6025	6235	6610	6640	6940(J)
	S				5675	5905	6150	6395	6620	6850	7160	7300	7610(J)
245/75R22.5	D		3160	3315	3640	3615	3765	3970	4055	4195	4300(G)		
	S		3470	3645	3860	3975	4140	4300	4455	4610	4675(G)		
265/75R22.5	D		3525	3705	3860	4040	4205	4410	4525	4685	4805(G)		
	S		3875	4070	4300	4440	4620	4805	4975	5150	5205(G)		

Notes: 1. Letters in parenthesis denote Load Range for which **Bold Face** loads are maximum. International Load Index numbers shown after Load Range.
 CAUTION - Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M2 for Approved Tire and Rim Combinations.



SERVICE LOAD AND INFLATION TABLES FOR IMPORTED TIRES
TIRES FOR TRUCKS, BUSES AND TRAILERS USED IN HIGHWAY SERVICE

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE	Dual(D) Single(S)	PSI														
		60	65	70	75	80	85	90	95	100	105	110	115	120	125	130
TUBELESS TIRES MOUNTED ON 15° DROP CENTER RIMS																
8.75R16.5 LT	D	1970	2070(D)	2175	2260	2360(E)										
	S	2240	2350(D)	2470	2570	2680(E)										
8R17.5	D	2085	2225	2360	2565	2625	2755(E)									
	S	2145	2285	2425	2495	2700	2835(E)									
8.5R17.5	D			2525	2665	2810	2945	3085(F)								
	S			2615	2760	2910	3050	3195(F)								
10R17.5	D						3420	3590	3775	3920	4085	4250	4410(H)			
	S						3625	3805	3980	4160	4330	4505	4675(H)			
295/80R22.5	D					4855	5100	5335	5570	5805	6035	6265	6490	6720	6940(H)	
	S					5480	5750	6020	6285	6550	6810	7070	7320	7580	7830(H)	
315/80R22.5	D						5840	6070	6395	6540	6770	6940	7210	7390	7390(J)	
	S						6415	6670	6940	7190	7440	7610	7920	8270	8820(J)	
315/80R22.5 55 MPH MAX.SPD.	D								6425	6690	6955	7220	7480	7750(L)		
	S								7460	7770	8080	8380	8690	9000(L)		
12R22.5	D					4945	5190	5435	5675	5910	6145	6380	6610(H)			
	S					5530	5805	6075	6345	6610	6870	7130	7390(H)			
13R22.5	D								5750	5990	6230	6465	6700	6930	7160(J)	
	S								6640	6920	7190	7470	7740	8000	8270(J)	
TUBETYPE TIRES MOUNTED ON TYPE I, II AND III RIMS																
12.00R20	D						5910	6140	6360	6580	6790	7000	7200(J)			
	S						6200	6480	6740	7010	7250	7500	7740	7980	8210(J)	
365/80R20	D								-	-	-	-	-	-	-	-
	S								7780	8110	8430	8750	9070	9380	9690	10000(J)

Notes: Letters in parenthesis denote Load Range for which **BOLD FACE** loads are maximum.



SERVICE LOAD AND INFLATION TABLE
 FOR RADIAL LOW PLATFORM TRAILER TIRES
 IN NORMAL HIGHWAY SERVICE

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

TIRE SIZE DESIGNATION	Dual(D) Single(S)	PSI									
		80	85	90	95	100	105	110	115	120	125
TUBELESS TIRES ON 15° DROP CENTER RIMS											
9R17.5HC		3020 3385	3180 3555	3335 3730	3495 3900	3650 4070	3810 4240	3970(H) 4410(H)			
11R17.5HC	D S	3980 4170	4130 4370	4280 4540	4430(G) 4710	4570 4880	4710 5050(G)	4850(H) 5210	5370	5530(H)	
TUBETYPE TIRES ON TYPE I, II AND III RIMS											
8.25R15TR	D S			3270 3620	3400 3770	3530 3920	3660(G) 4070(G)				
10.00R15TR LR-G	D S	3980 4170	4130 4370	4280 4540	4430(G) 4710	4880	5050(G)				
10.00R15TR LR-J	D S			5110 5380	5320 5600	5540 5830	5750 6050	5960 6270	6180 6500	6380 6720	6395(J) 6945(J)

Notes: 1. Letters in parenthesis denote Load Range for which **BOLD FACE** Loads are maximum.
 CAUTION—Always use Approved Tire and Rim Combinations for Diameters and Contours.
 See Page M3 for Approved Tire and Rim Combinations.



SERVICE LOAD AND INFLATION TABLES
 WIDE BASE TIRES FOR TRUCKS, BUSES AND
 TRAILERS USED IN NORMAL HIGHWAY SERVICE
 RADIAL PLY TIRES

Highway Service TIRE LOAD LIMITS (LBS) AT VARIOUS COLD INFLATION PRESSURES (PSI).

(The pressure is minimum for the load)

TIRE SIZE DESIGNATION	Dual(D) Single(S)	PSI										
		80	85	90	95	100	105	110	115	120	125	130
TIRES MOUNTED ON 15° DROP CENTER RIMS												
385/65R22.5	S	6940	7350	7650	8050	8230	8510	8820	9050	9370(J)		
425/65R22.5	S	8270	8740	9100	9370	9790	10100	10500(J)	10800	11400(L)		
445/65R22.5	S	9090	9480	9870	10200	10600	11000	11400	11700	12300(L)		
TUBELESS TIRES MOUNTED ON 5° FULL TAPERED OR TYPE III TUBELESS RIMS												
395/85R20	S	8410	8780	9140	9370(G)	9840	10200	10500(H)	10800	11000(J)	11500	11700(L)
16.00R20,21	D	11110	11540	11950(L)	12360	12760(M)						
	S	11650	12160	12660	13150	13630(L)	14090	14540(M)				

Notes: 1. Letters in parenthesis denote load range for which **BOLD FACE** type loads are maximum.

2. An additional 10 PSI cold inflation is recommended to compensate for pressure loss between airings. However, in no case should rim load and inflation limits be exceeded.

CAUTION – Always use Approved Tire and Rim Combinations for Diameters and Contours. See Page M2 for Approved Tire and Rim Combinations.



SERVICE DESCRIPTION

Some Light Truck and Truck/Bus tires are marked with a Service Description, which is distinct from the size designation.

Example: 114 / 111 S The first number is a Load Index for single application. The second number is a Load Index for dual application (where applicable). The letter is a Speed Symbol indicating the speed category at which the tire can carry a load corresponding to its Load Index under specified service conditions.

LOAD INDEX TABLE

Load Index	kg.	lbs.	Load Index	kg.	lbs.	Load Index	kg.	lbs.
100	800	1765	126	1700	3750	151	3450	7610
101	825	1820	127	1750	3860	152	3550	7830
102	850	1875	128	1800	3970	153	3650	8050
103	875	1930	129	1850	4080	154	3750	8270
104	900	1985	130	1900	4190	155	3875	8540
105	925	2040	131	1950	4300	156	4000	8820
106	950	2095	132	2000	4410	157	4125	9090
107	975	2150	133	2060	4540	158	4250	9370
108	1000	2205	134	2120	4675	159	4375	9650
109	1030	2270	135	2180	4805	160	4500	9920
110	1060	2335	136	2240	4940	161	4625	10200
111	1090	2405	137	2300	5070	162	4750	10500
112	1120	2470	138	2360	5205	163	4875	10700
113	1150	2535	139	2430	5355	164	5000	11000
114	1180	2600	140	2500	5510	165	5150	11400
115	1215	2680	141	2575	5675	166	5300	11700
116	1250	2755	142	2650	5840	167	5450	12000
117	1285	2835	143	2725	6005	168	5600	12300
118	1320	2910	144	2800	6175	169	5800	12800
119	1360	3000	145	2900	6395	170	6000	13200
120	1400	3085	146	3000	6610	171	6150	13600
121	1450	3195	147	3075	6780	172	6300	13900
122	1500	3305	148	3150	6940	173	6500	14300
123	1550	3415	149	3250	7160	174	6700	14800
124	1600	3525	150	3350	7390	175	6900	15200
125	1650	3640						

SPEED SYMBOL TABLE

Speed	Km/h	Mph
F	80	50
G	90	55
J	100	62
K	110	68
L	120	75
M	130	81
N	140	87
P	150	93
Q	160	99
R	170	106
S	180	112
T	190	118
H	210	130