

Determining Air Pressure For A New Tire Size

If the vehicle owner is replacing the OE tires with the same size, check the vehicle placard, owner's manual or tire guide for recommended air pressure.

If the customer does not have or is not putting the OE tire size on the vehicle, determine air pressure by doing the following:

1. Use vehicle placard or Tire Guide to find load index and air pressure of OE tire.
2. Select the correct inflation table and find the load carrying capacity of the OE tire.
3. On the replacement tire you recommended, find the load index (use the store system or the tire itself).
4. Use the inflation table that corresponds to the replacement tire's load range. On the selected inflation table:
 - ◆ Find the replacement tire's load index line.
 - ◆ Move across that row until you find the load that is equal to or just greater than the OE load recommendation.
 - ◆ The recommended air pressure is at the top of that column.
- ◆ Write the air pressure for both front and rear tires on the invoice.

Standard Load

LOAD INDEX	24 PSI	25 PSI	26 PSI	27 PSI	28 PSI	29 PSI	30 PSI	31 PSI	32 PSI	33 PSI	34 PSI	35 PSI	36 PSI
80	699	728	757	778	806	826	847	875	895	916	937	964	992
81	719	749	779	799	829	848	869	897	917	938	958	986	1019
82	740	770	801	821	851	871	901	931	951	970	991	1020	1047
83	760	792	823	842	874	893	923	954	973	992	1012	1042	1074
84	780	813	845	864	896	926	945	976	995	1025	1044	1075	1102
85	800	834	867	896	930	948	977	1010	1028	1047	1077	1108	1135
86	831	865	900	918	952	981	999	1032	1061	1080	1109	1142	1168
87	851	887	922	950	986	1003	1031	1066	1083	1112	1130	1164	1202
88	871	908	944	972	1008	1036	1053	1088	1116	1145	1163	1197	1235
89	902	939	977	1004	1042	1069	1097	1133	1161	1189	1206	1241	1279
90	932	971	1010	1037	1075	1102	1129	1167	1194	1221	1249	1286	1323
91	963	1003	1043	1069	1109	1135	1162	1200	1227	1254	1281	1319	1356
92	983	1024	1065	1091	1131	1157	1194	1234	1260	1287	1314	1352	1389
93	1013	1055	1098	1123	1165	1201	1227	1268	1293	1330	1357	1396	1433
94	1044	1087	1131	1166	1209	1234	1270	1313	1338	1363	1400	1441	1477
95	1074	1119	1164	1199	1243	1267	1303	1346	1382	1407	1443	1485	1521
96	1104	1150	1196	1231	1277	1311	1346	1391	1415	1450	1475	1518	1565
97	1135	1182	1229	1263	1310	1344	1379	1425	1459	1494	1518	1563	1609
98	1165	1214	1262	1296	1344	1377	1411	1458	1492	1527	1561	1607	1653
99	1206	1256	1306	1339	1389	1432	1466	1514	1548	1581	1615	1662	1709
100	1246	1298	1350	1382	1433	1477	1509	1559	1592	1636	1669	1718	1764
101	1287	1340	1394	1425	1478	1521	1563	1615	1647	1679	1723	1773	1819
102	1327	1383	1438	1469	1523	1565	1607	1660	1691	1734	1776	1829	1874
103	1368	1425	1482	1523	1579	1609	1650	1705	1747	1788	1820	1873	1929
104	1398	1457	1515	1566	1624	1664	1704	1761	1802	1832	1873	1928	1984
105	1439	1499	1559	1609	1669	1708	1748	1806	1846	1886	1927	1984	2039
106	1479	1541	1603	1652	1713	1752	1791	1851	1901	1941	1981	2039	2094
107	1520	1583	1646	1695	1758	1796	1846	1907	1946	1985	2035	2095	2149
108	1560	1625	1690	1739	1803	1840	1889	1952	2001	2039	2089	2150	2205
109	1601	1668	1734	1782	1848	1895	1943	2008	2056	2104	2143	2206	2271
110	1652	1720	1789	1836	1904	1950	1998	2064	2111	2159	2207	2272	2337
111	1702	1773	1844	1890	1960	2005	2063	2131	2178	2224	2272	2339	2403
112	1743	1815	1888	1944	2016	2061	2117	2188	2233	2290	2336	2405	2469
113	1793	1868	1943	1998	2072	2116	2171	2244	2299	2344	2401	2472	2535
114	1834	1910	1987	2041	2117	2171	2226	2300	2355	2410	2455	2527	2601
115	1895	1974	2053	2106	2184	2237	2291	2367	2421	2475	2530	2605	2679
116	1945	2026	2107	2171	2251	2303	2356	2434	2498	2552	2605	2682	2756
117	2006	2090	2173	2225	2307	2369	2432	2513	2565	2617	2681	2760	2833
118	2057	2143	2228	2289	2374	2435	2497	2580	2631	2693	2756	2837	2910
119	2118	2206	2294	2354	2441	2512	2573	2659	2719	2770	2832	2915	2998
120	2178	2269	2360	2430	2520	2578	2649	2737	2797	2857	2918	3004	3086
121		2348	2458		2568	2679	2778		2888	2987		3097	3197
122		2425	2546		2657	2767	2877		2987	3097		3197	3307
123		2513	2623		2745	2855	2976		3086	3197		3307	3417
124		2590	2712		2833	2954	3064		3186	3296		3417	3527
125		2668	2800		2921	3042	3164		3285	3406		3516	3638

XL Reinforced

LOAD INDEX	26 PSI	27 PSI	28 PSI	29 PSI	30 PSI	31 PSI	32 PSI	33 PSI	34 PSI	35 PSI	36 PSI	37 PSI	38 PSI	39 PSI	40 PSI	41 PSI	42 PSI
80	670	691	717	738	760	785	796	818	829	853	876	887	911	935	955	979	992
81	692	713	739	760	771	797	818	840	851	876	897	919	944	969	977	1002	1063
82	713	734	762	782	793	819	840	861	883	909	919	941	966	992	999	1024	1047
83	735	745	773	793	814	841	862	883	904	931	941	963	989	1015	1031	1057	1074
84	746	767	795	815	836	864	884	905	926	953	974	995	1022	1049	1053	1079	1102
85	768	788	818	848	869	897	917	938	958	986	996	1017	1044	1072	1086	1113	1135
86	790	821	851	871	890	920	940	960	980	1009	1029	1049	1077	1106	1118	1146	1168
87	812	842	874	893	912	942	962	992	1012	1042	1062	1082	1111	1140	1151	1180	1202
88	834	864	896	915	945	976	995	1014	1034	1064	1083	1114	1144	1174	1183	1213	1235
89	845	896	930	948	977	1010	1028	1047	1077	1108	1127	1146	1177	1208	1227	1258	1279
90	900	929	963	981	1010	1043	1061	1090	1109	1142	1171	1190	1222	1254	1270	1302	1323
91	922	950	986	1003	1031	1066	1094	1112	1141	1175	1193	1222	1255	1288	1303	1335	1356
92	944	972	1008	1036	1053	1088	1116	1145	1163	1197	1226	1244	1277	1311	1335	1369	1389
93	977	1004	1042	1069	1086	1122	1150	1178	1206	1241	1259	1287	1322	1357	1368	1402	1433
94	999	1037	1075	1102	1129	1167	1183	1210	1238	1275	1302	1330	1366	1402	1411	1447	1477
95	1032	1058	1098	1135	1162	1200	1227	1254	1281	1319	1346	1363	1400	1436	1455	1491	1521
96	1065	1091	1131	1157	1194	1234	1260	1287	1314	1352	1379	1406	1444	1482	1498	1536	1565
97	1098	1123	1165	1190	1227	1268	1293	1319	1346	1385	1423	1449	1488	1528	1542	1580	1609
98	1120	1155	1198	1223	1259	1301	1326	1363	1389	1430	1456	1482	1522	1562	1585	1625	1653
99	1164	1199	1243	1267	1303	1346	1371	1407	1432	1474	1510	1536	1577	1619	1639	1680	1709
100	1196	1231	1277	1311	1346	1391	1415	1450	1486	1529	1554	1590	1633	1676	1694	1736	1764
101	1240	1274	1321	1355	1379	1425	1459	1494	1529	1574	1609	1633	1677	1721	1737	1781	1819
102	1273	1307	1355	1388	1422	1470	1503	1537	1572	1618	1653	1687	1733	1778	1791	1836	1874
103	1306	1350	1400	1432	1466	1514	1548	1581	1615	1662	1696	1730	1777	1824	1846	1892	1929
104	1350	1382	1433	1477	1509	1559	1592	1636	1669	1718	1751	1785	1833	1881	1900	1948	1984
105	1383	1404	1456	1510	1552	1604	1636	1679	1712	1762	1795	1839	1888	1938	1954	2003	2039
106	1427	1458	1512	1554	1596	1649	1680	1723	1755	1807	1850	1882	1933	1984	2009	2059	2094
107	1460	1501	1557	1598	1639	1694	1724	1766	1809	1862	1893	1936	1988	2041	2063	2114	2149
108	1504	1544	1601	1642	1672	1728	1769	1810	1852	1906	1948	1979	2033	2086	2106	2159	2205
109	1548	1587	1646	1686	1726	1784	1824	1865	1906	1962	2003	2044	2099	2155	2171	2226	2271
110	1592	1631	1691	1730	1780	1840	1879	1919	1960	2017	2057	2098	2155	2212	2237	2293	2337
111	1636	1674	1736	1785	1824	1885	1934	1974	2013	2073	2123	2163	2222	2280	2302	2359	2403
112	1679	1728	1792	1829	1878	1941	1990	2028	2078	2139	2178	2217	2277	2337	2367	2426	2469
113	1723	1771	1837	1884	1932	1997	2034	2083	2132	2194	2233	2282	2344	2405	2432	2493	2535
114	1767	1814	1881	1928	1976	2042	2089	2137	2186	2250	2298	2336	2399	2462	2486	2549	2601
115	1822	1868	1937	1994	2041	2109	2156	2203	2250	2316	2364	2412	2477	2542	2562	2626	2679
116	1877	1922	1993	2050	2095	2165	2211	2268	2315	2383	2430	2477	2544	2611	2638	2704	2756
117	1921	1976	2049	2105	2160	2232	2277	2323	2379	2449	2495	2552	2621	2690	2714	2782	2833
118	1976	2030	2105	2160	2215	2289	2343	2388	2444	2516	2561	2617	2688	2759	2790	2860	2910
119	2042	2095	2173	2226	2280	2356	2410	2464	2519	2593	2648	2693	2766	2839	2866	2938	2998
120	2097	2160	2240	2292	2345	2423	2476	2541	2595	2671	2725	2780	2855	2930	2953	3027	3086
121	2183		2282	2370	2469		2557	2657		2745	2844		2932	3020		3108	3197
122	2260		2359	2458	2557		2657	2745		2844	2932		3031	3120		3219	3307
123	2337		2436	2535	2634		2745	2844		2932	3031		3131	3230		3318	3417
124	2403		2513	2623	2723		2833	2932		3031	3131		3230	3329		3428	3527
125	2480		2590	2701	2811		2921	3020		3131	3274		3329	3483		3538	3638
126	2557		2668	2789	2899		3009	3108		3219	3329		3439	3538		3649	3748
127	2634		2756	2866	2976		3097	3208		3318	3428		3538	3649		3748	3858
128	2712		2833	2943	3064		3186	3296		3406	3527		3638	3748		3858	3968
129	2789		2910	3031	3153		3274	3384		3505	3627		3737	3847		3968	4079
130	2855		2987	3108	3241		3362	3483		3605	3715		3836	3957		4067	4189

Trailer Tire Load Limits (in lbs.)

PSI	35	50	65	80
ST115/80/13	880 (B)	1100 (C)		
ST165/80/13	990 (B)	1230 (C)		
ST175/80/13	1100 (B)	1360 (C)		
ST185/80/13	1200 (B)	1480 (C)		
ST195/80/14	1320 (B)	1610 (C)		
ST205/80/14	1430 (B)	1760 (C)	2040 (D)	
ST215/80/14	1520 (B)	1870 (C)		
ST205/75/15	1480 (B)	1820 (C)	2150 (D)	
ST225/75/15	1760 (B)	2150 (C)	2540 (D)	2840 (E)
ST215/80/16	1820 (B)	2200 (C)	2600 (D)	2910 (E)
ST235/80/16	2090 (B)	2600 (C)	3000 (D)	3420 (E)

The capacities for trailer tires apply equally to radial and bias ply versions. The letters indicate the load range.

D Load Range

Load Index	35 PSI	40 PSI	45 PSI	50 PSI	55 PSI	60 PSI	65 PSI
96	1015	1115	1210	1325	1390	1480	1565
97	1045	1150	1245	1355	1440	1525	1610
98							1653
99	1115	1225	1330	1435	1530	1625	1710
100	1150	1265	1370	1475	1580	1675	1765
101							1819
102							1874
103	1260	1385	1500	1655	1730	1840	1930
104	1315	1440	1565	1710	1800	1915	1985
105							2039
106	1345	1475	1605	1765	1845	1960	2095
107	1390	1530	1660	1820	1910	2035	2150
108	1445	1585	1720	1875	1980	2105	2205
109							2271
110	1475	1620	1760	1930	2025	2150	2335
111	1545	1695	1845	2006	2125	2255	2381
112	1565	1720	1865	1985	2150	2285	2470
113	1620	1780	1935	2095	2225	2365	2535
114	1710	1820	1975	2150	2275	2415	2600
115	1720	1890	2050	2205	2360	2510	2680
116	1780	1950	2120	2335	2440	2595	2755
117	1875	2000	2170	2335	2500	2655	2835
118	1890	2075	2255	2470	2595	2760	2910
119	1955	2145	2330	2535	2680	2850	3000
120	2040	2240	2430	2680	2795	2970	3085
121	2045	2245	2440	2680	2805	2980	3195
122	2130	2340	2540	2755	2925	3110	3305
123	2240	2460	2670	2910	3070	3265	3415
124	2245	2465	2680	2910	3085	3275	3525
125							3638
126							3748
127							3858
128							3968
129							4079
130							4189

C Load Range

LOAD INDEX	35 PSI	40 PSI	45 PSI	50 PSI
85	870	955	1035	1135
86				1168
87				1202
88	955	1050	1140	1235
89				1279
90	1015	1115	1210	1325
91	1040	1140	1240	1355
92	1060	1165	1265	1390
93	1115	1225	1330	1435
94	1150	1265	1370	1475
95	1165	1280	1390	1520
96				1565
97	1235	1355	1470	1610
98	1285	1415	1535	1655
99	1315	1440	1565	1710
100	1340	1475	1600	1765
101	1390	1530	1660	1820
102	1450	1595	1730	1875
103	1500	1650	1790	1930
104	1525	1675	1820	1985
105	1610	1730	1875	2040
106	1620	1780	1935	2095
107	1655	1815	1970	2150
108	1720	1890	2050	2205
109	1750	1920	2085	2270
110	1820	1995	2170	2335
111	1840	2020	2195	2405
112	1925	2110	2295	2470
113	1955	2145	2330	2535
114	2040	2195	2380	2600
115	2040	2240	2430	2680
116	2115	2325	2525	2755
117	2195	2410	2620	2835
118	2335	2500	2715	2910
119				2998
120	2405	2590	2815	3085
121	2535	2715	2950	3195

E Load Range

LOAD INDEX	35 PSI	40 PSI	45 PSI	50 PSI	55 PSI	60 PSI	65 PSI	70 PSI	75 PSI	80 PSI
102	1045	1150	1245	1355	1440	1525	1610	1700	1785	1875
103										1929
104										1984
105	1150	1265	1370	1475	1580	1675	1765	1870	1960	2040
106										2094
107										2149
108										2205
109	1250	1375	1490	1610	1720	1825	1930	2035	2135	2270
110										2337
111										2403
112	1375	1510	1640	1765	1890	2005	2150	2235	2345	2470
113	1390	1530	1660	1820	1910	2035	2150	2265	2375	2535
114										2601
115	1500	1650	1790	1940	2060	2190	2335	2440	2560	2680
116	1565	1690	1830	1985	2105	2240	2335	2495	2615	2756
117										2833
118	1720	1890	2050	2270	2360	2510	2680	2735	2820	2910
119	1710	1855	2010	2205	2315	2460	2600	2740	2875	3000
120	1700	1865	2030	2205	2335	2480	2623	2765	2900	3042
121	1890	2075	2255	2470	2595	2760	2910	3005	3100	3195
122										3307
123	1910	2100	2280	2470	2625	2790	3000	3105	3260	3415
124										3527
125										3638
126										3748
127										3858
128										3968
129										4079
130										4189

D2Load Range (Max 50 PSI)

Load Index	35 PSI	40 PSI	45 PSI	50 PSI
111	1875	2020	2195	2405
112				2470
113				2540
114	2040	2255	2440	2600
115	2150	2275	2470	2680
116	2205	2370	2530	2755
117	2205	2355	2560	2835
118	2335	2500	2715	2910
119	2405	2605	2780	3000
120	2405	2590	2815	3085
121	2535	2685	2915	3195
122	2680	2835	3075	3305
123	2680	2915	3150	3415
124	2755	2960	3210	3525
125	2910	3115	3380	3640
126	2910	3165	3435	3750
127	3000	3250	3530	3860
128	3085	3405	3685	3970

C2 Load Range (Max 35 PSI)

LOAD INDEX	25 PSI	30 PSI	35 PSI
103	1520	1715	1930
104			
105	1610	1850	2040
106			2095
107			2150
108	1765	2000	2205
109			2270
110			2335
111	1875	2155	2405
112			2470
113	2040	2295	2535
114	2095	2370	2600
115			2680
116	2150	2470	2755
117			2835
118	2270	2600	2910
119	2335	2690	3000
120			3085
121	2680	3055	3195
122			3305
123	2680	3040	3415

E2 Load Range (Max 65 PSI)

LOAD INDEX	35 PSI	40 PSI	45 PSI	50 PSI	55 PSI	60 PSI	65 PSI
121	2150	2300	2500	2755	2875	3060	3195
122							
123	2270	2395	2600	2835	2990	3175	3415
124	2335	2530	2745	3000	3160	3360	3525
125							
126	2470	2630	2855	3085	3285	3490	3750
127	2535	2715	2945	3195	3390	3600	3860

C2, D2 and E2 Load Ranges apply to tires wider than 11.5"

Examples

1993 Honda Civic

Original OE tires: 175/70-13

- ◆ Load index: 82
- ◆ Air pressure: 32 front & rear
- 1. Go to the standard inflation table. Go to load index line 82. Follow that line across until you come to the column for 32 PSI air pressure.
- 2. The load capacity for both front and rear tires is: 948 lbs.

Replacement tires: 205/40-17

- ◆ Load index for these tires is 80
- ◆ Use the standard load chart
- 1. Go to load index line 80
- 2. Follow that line across to 948 lbs
- 3. Look at the top of that column.
- 4. The air pressure should be: 35 front & rear

1995 Chevy 1/2 ton pickup C1500

Original OE tires: P225/75-15

- ◆ Load index: 102
- ◆ Air pressure: 32 front & 35 rear
- 1. Go to the standard inflation table. Go to load index line 102. Follow that line across until you come to the column for 32 PSI air pressure.
- 2. The load capacity for the front tires is: 1687
- 3. Continue following load index line 102 until you come to the column for 35 PSI.
- 4. The load range for the rear tires is: 1819

Replacement tires: LT235/75-15/C

- ◆ Load index is 104
- ◆ New Load capacity: 1533 & 1653 *
- ◆ Use the C load range chart.
- 1. Go to load index line 104
- 2. Follow that line across to the number that is equal to or greater than the OE recommendation for the front tires (1533 lbs).
- 3. Look at the top of that column. The air pressure for the front tires is 40.
- 4. Find the number that is equal to or greater than the OE recommendation for the rear tires (1653 lbs).
- 5. Look at the top of that column. The air pressure for the rear tires is also 40.

*Note: When you replace a P-metric tire on a pickup van minivan or SUV you need to reduce the rated load by 9-10%. Make sure you inform the customer of the new load-carrying capacity. (See the Certified Basics book for more information.)



This is where you find the load index.

The load index for a flotation size such as 31x10.50R-15C is on the tire sidewall.

