



Gear Ratio Guide

Whenever you change tire size from the original size to a larger diameter there will be a direct effect on power and drivability. In effect, changing to a larger tire size is like switching to a higher (numerically lower) gear set. This chart will help you select the optimum axle gear ratio to accommodate the larger tires and retain original performance.

Using the chart below, find your original gear ratio and tire size. Follow these to the point of intersection and that should be your approximate engine RPM at 65 MPH. Next, find your new tire size and follow it across to the engine RPM that most closely matches your original engine RPM. Follow this point of intersection to the top to determine your optimum new axle gear ratio.

If you are interested in a change that will give more power or better fuel economy, use the color coding as a guide.

This chart is based on a speed of **65 MPH** and a gear ratio of 1:1, on a manual transmission in 4th gear. If you have an automatic transmission your actual RPM may be higher due to normal slippage in the transmission and torque converter. With an overdrive transmission your RPM in overdrive will be 15% to 30% less than indicated.

| | | Axle Gear Ratio | | | | | | | | | | | | | | | | | | | |
|---------------|----|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| | | 2.94 | 3.07 | 3.21 | 3.31 | 3.42 | 3.55 | 3.73 | 3.91 | 4.11 | 4.27 | 4.56 | 4.88 | 5.13 | 5.29 | 5.38 | 5.71 | 6.17 | 7.17 | | |
| Tire Diameter | 27 | 2378 | 2483 | 2597 | 2677 | 2766 | 2872 | 3017 | 3163 | 3325 | 3454 | 3689 | 3947 | 4150 | 4279 | 4352 | 4619 | 4991 | 5800 | | |
| | 28 | 2293 | 2395 | 2504 | 2582 | 2668 | 2769 | 2909 | 3050 | 3206 | 3331 | 3557 | 3806 | 4001 | 4126 | 4196 | 4454 | 4813 | 5593 | | |
| | 29 | 2214 | 2312 | 2417 | 2493 | 2576 | 2674 | 2809 | 2945 | 3095 | 3216 | 3434 | 3675 | 3863 | 3984 | 4052 | 4300 | 4647 | 5400 | | |
| | 30 | 2140 | 2235 | 2337 | 2410 | 2490 | 2584 | 2715 | 2846 | 2992 | 3109 | 3320 | 3553 | 3735 | 3851 | 3917 | 4157 | 4492 | 5220 | | |
| | 31 | 2071 | 2163 | 2261 | 2332 | 2409 | 2501 | 2628 | 2755 | 2896 | 3008 | 3213 | 3438 | 3614 | 3727 | 3790 | 4023 | 4347 | 5051 | | |
| | 32 | 2007 | 2095 | 2191 | 2259 | 2334 | 2423 | 2546 | 2669 | 2805 | 2914 | 3112 | 3331 | 3501 | 3610 | 3672 | 3897 | 4211 | 4894 | | |
| | 33 | 1946 | 2032 | 2124 | 2191 | 2263 | 2349 | 2469 | 2588 | 2720 | 2826 | 3018 | 3230 | 3395 | 3501 | 3561 | 3779 | 4083 | 4745 | | |
| | 34 | 1889 | 1972 | 2062 | 2126 | 2197 | 2280 | 2396 | 2512 | 2640 | 2743 | 2929 | 3135 | 3295 | 3398 | 3456 | 3668 | 3963 | 4606 | | |
| | 35 | 1835 | 1916 | 2003 | 2065 | 2134 | 2215 | 2328 | 2440 | 2565 | 2664 | 2845 | 3045 | 3201 | 3301 | 3357 | 3563 | 3850 | 4474 | | |
| | 36 | 1784 | 1862 | 1947 | 2008 | 2075 | 2154 | 2263 | 2372 | 2493 | 2590 | 2766 | 2961 | 3112 | 3209 | 3264 | 3464 | 3743 | 4350 | | |
| | 37 | 1735 | 1812 | 1895 | 1954 | 2019 | 2095 | 2202 | 2308 | 2426 | 2520 | 2692 | 2881 | 3028 | 3123 | 3176 | 3370 | 3642 | 4232 | | |
| | 38 | 1690 | 1764 | 1845 | 1902 | 1966 | 2040 | 2144 | 2247 | 2362 | 2454 | 2621 | 2805 | 2948 | 3040 | 3092 | 3282 | 3546 | 4121 | | |
| | 39 | 1646 | 1719 | 1798 | 1854 | 1915 | 1988 | 2089 | 2190 | 2302 | 2391 | 2554 | 2733 | 2873 | 2962 | 3013 | 3198 | 3455 | 4015 | | |
| | 40 | 1605 | 1676 | 1753 | 1807 | 1867 | 1938 | 2037 | 2135 | 2244 | 2331 | 2490 | 2664 | 2801 | 2888 | 2937 | 3118 | 3369 | 3915 | | |
| | 41 | 1566 | 1635 | 1710 | 1763 | 1822 | 1891 | 1987 | 2083 | 2189 | 2275 | 2432 | 2599 | 2733 | 2818 | 2866 | 3042 | 3287 | 3819 | | |
| | 42 | 1529 | 1596 | 1669 | 1721 | 1778 | 1846 | 1940 | 2033 | 2137 | 2220 | 2371 | 2538 | 2668 | 2751 | 2798 | 2969 | 3208 | 3728 | | |
| | 43 | 1493 | 1559 | 1630 | 1681 | 1737 | 1803 | 1894 | 1986 | 2087 | 2169 | 2316 | 2479 | 2606 | 2687 | 2733 | 2900 | 3134 | 3642 | | |
| | 44 | 1459 | 1524 | 1593 | 1643 | 1698 | 1762 | 1851 | 1941 | 2040 | 2119 | 2263 | 2422 | 2545 | 2626 | 2670 | 2834 | 3063 | 3559 | | |

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| | Highway Driving Only, Best Fuel Economy |
| | Daily Driver, Best Overall Performance |
| | Most Power and Towing, Reduced Fuel Economy |