

This program has been used approximately **796079** times.



## DML Tire and Wheel Calculator Results



### Dimensions

| Dimension       | Tire A: 195/80 R 15<br>(27 x 7.68 x 15) | Tire B: 235/75 R 16<br>(30 x 9.25 x 16) | Difference         |
|-----------------|---|---|--------------------|
| Width           | 7.68" (195.00mm)                        | 9.25" (235.00mm)                        | +1.57" (+40.00mm)  |
| Sidewall height | 6.14" (156.00mm)                        | 6.94" (176.25mm)                        | +0.80" (+20.25mm)  |
| Overall height  | 27.28" (693.00mm)                       | 29.88" (758.90mm)                       | +2.59" (+65.90mm)  |
| Circumference   | 85.71" (2177.12mm)                      | 93.86" (2384.15mm)                      | +8.15" (+207.03mm) |

### Speedometer Error

| Actual Speed         | Indicated Speed with Tire B | Speedometer Error      |
|----------------------|-----------------------------|------------------------|
| 5 mph (8.04 kph)     | 4.57 mph (7.35 kph)         | -0.43 mph (-0.70 kph)  |
| 10 mph (16.09 kph)   | 9.13 mph (14.69 kph)        | -0.87 mph (-1.40 kph)  |
| 15 mph (24.13 kph)   | 13.70 mph (22.04 kph)       | -1.30 mph (-2.10 kph)  |
| 20 mph (32.18 kph)   | 18.26 mph (29.39 kph)       | -1.74 mph (-2.79 kph)  |
| 25 mph (40.23 kph)   | 22.83 mph (36.73 kph)       | -2.17 mph (-3.49 kph)  |
| 30 mph (48.27 kph)   | 27.39 mph (44.08 kph)       | -2.61 mph (-4.19 kph)  |
| 35 mph (56.31 kph)   | 31.96 mph (51.42 kph)       | -3.04 mph (-4.89 kph)  |
| 40 mph (64.36 kph)   | 36.53 mph (58.77 kph)       | -3.47 mph (-5.59 kph)  |
| 45 mph (72.41 kph)   | 41.09 mph (66.12 kph)       | -3.91 mph (-6.29 kph)  |
| 50 mph (80.45 kph)   | 45.66 mph (73.46 kph)       | -4.34 mph (-6.99 kph)  |
| 55 mph (88.50 kph)   | 50.22 mph (80.81 kph)       | -4.78 mph (-7.68 kph)  |
| 60 mph (96.54 kph)   | 54.79 mph (88.16 kph)       | -5.21 mph (-8.38 kph)  |
| 65 mph (104.58 kph)  | 59.36 mph (95.50 kph)       | -5.64 mph (-9.08 kph)  |
| 70 mph (112.63 kph)  | 63.92 mph (102.85 kph)      | -6.08 mph (-9.78 kph)  |
| 75 mph (120.67 kph)  | 68.49 mph (110.20 kph)      | -6.51 mph (-10.48 kph) |
| 80 mph (128.72 kph)  | 73.05 mph (117.54 kph)      | -6.95 mph (-11.18 kph) |
| 85 mph (136.76 kph)  | 77.62 mph (124.89 kph)      | -7.38 mph (-11.88 kph) |
| 90 mph (144.81 kph)  | 82.18 mph (132.24 kph)      | -7.82 mph (-12.57 kph) |
| 95 mph (152.85 kph)  | 86.75 mph (139.58 kph)      | -8.25 mph (-13.27 kph) |
| 100 mph (160.90 kph) | 91.32 mph (146.93 kph)      | -8.68 mph (-13.97 kph) |
| 105 mph (168.94 kph) | 95.88 mph (154.27 kph)      | -9.12 mph (-14.67 kph) |
|                      |                             |                        |

|                      |                         |                         |
|----------------------|-------------------------|-------------------------|
| 110 mph (176.99 kph) | 100.45 mph (161.62 kph) | -9.55 mph (-15.37 kph)  |
| 115 mph (185.03 kph) | 105.01 mph (168.97 kph) | -9.99 mph (-16.07 kph)  |
| 120 mph (193.08 kph) | 109.58 mph (176.31 kph) | -10.42 mph (-16.77 kph) |
| 125 mph (201.12 kph) | 114.15 mph (183.66 kph) | -10.85 mph (-17.46 kph) |
| 130 mph (209.17 kph) | 118.71 mph (191.01 kph) | -11.29 mph (-18.16 kph) |
| 135 mph (217.22 kph) | 123.28 mph (198.35 kph) | -11.72 mph (-18.86 kph) |
| 140 mph (225.26 kph) | 127.84 mph (205.70 kph) | -12.16 mph (-19.56 kph) |
| 145 mph (233.31 kph) | 132.41 mph (213.05 kph) | -12.59 mph (-20.26 kph) |
| 150 mph (241.35 kph) | 136.97 mph (220.39 kph) | -13.03 mph (-20.96 kph) |
| 155 mph (249.40 kph) | 141.54 mph (227.74 kph) | -13.46 mph (-21.66 kph) |
| 160 mph (257.44 kph) | 146.11 mph (235.08 kph) | -13.89 mph (-22.36 kph) |
| 165 mph (265.49 kph) | 150.67 mph (242.43 kph) | -14.33 mph (-23.05 kph) |
| 170 mph (273.53 kph) | 155.24 mph (249.78 kph) | -14.76 mph (-23.75 kph) |
| 175 mph (281.57 kph) | 159.80 mph (257.12 kph) | -15.20 mph (-24.45 kph) |
| 180 mph (289.62 kph) | 164.37 mph (264.47 kph) | -15.63 mph (-25.15 kph) |
| 185 mph (297.67 kph) | 168.94 mph (271.82 kph) | -16.06 mph (-25.85 kph) |
| 190 mph (305.71 kph) | 173.50 mph (279.16 kph) | -16.50 mph (-26.55 kph) |
| 195 mph (313.75 kph) | 178.07 mph (286.51 kph) | -16.93 mph (-27.25 kph) |
| 200 mph (321.80 kph) | 182.63 mph (293.86 kph) | -17.37 mph (-27.94 kph) |

If your speedometer has been calibrated for 195/80 R 15 (27 x 7.68 x 15) tires, replacing them with 235/75 R 16's (31 x 9.25 x 16's) would result in the speedometer reading low by 8.68%.

## Odometer Error

| Actual Mileage           | Indicated Mileage with Tire B | Odometer Error             |
|--------------------------|-------------------------------|----------------------------|
| 1 mi (1.61 km)           | 0.91 mi (1.47 km)             | -0.09 mi (-0.14 km)        |
| 5 mi (8.04 km)           | 4.57 mi (7.35 km)             | -0.43 mi (-0.70 km)        |
| 10 mi (16.09 km)         | 9.13 mi (14.69 km)            | -0.87 mi (-1.40 km)        |
| 50 mi (80.45 km)         | 45.66 mi (73.46 km)           | -4.34 mi (-6.99 km)        |
| 100 mi (160.90 km)       | 91.32 mi (146.93 km)          | -8.68 mi (-13.97 km)       |
| 500 mi (804.50 km)       | 456.58 mi (734.64 km)         | -43.42 mi (-69.86 km)      |
| 1000 mi (1609.00 km)     | 913.16 mi (1469.28 km)        | -86.84 mi (-139.72 km)     |
| 5000 mi (8045.00 km)     | 4565.82 mi (7346.40 km)       | -434.18 mi (-698.60 km)    |
| 10000 mi (16090.00 km)   | 9131.64 mi (14692.81 km)      | -868.36 mi (-1397.19 km)   |
| 50000 mi (80450.00 km)   | 45658.19 mi (73464.02 km)     | -4341.81 mi (-6985.98 km)  |
| 100000 mi (160900.00 km) | 91316.38 mi (146928.05 km)    | -8683.62 mi (-13971.95 km) |

Same as with the speedometer, if your odometer has been calibrated for 195/80 R 15 (27 x 7.68 x 15) tires, replacing

them with 235/75 R 16's ( $30 \times 9.25 \times 16$ 's) would result in the odometer reading low by 8.68%.

## Effective Gear Ratio Change

In order to calculate your effective gear ratio change, you have to input your rearend ratio on the form...

## RPM Change

In order to calculate your RPM change, you have to input an RPM on the form...

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[Back to the DML Tire Calculator page](#)

 [Back to the DML Home Page](#)