

GEAR RATIO CHART

| | NUMBER OF TEETH IN DRIVE HUB | | | | | | | | | | | |
|----|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 53 | 5.88 | 5.30 | 4.81 | 4.41 | 4.07 | 3.78 | 3.53 | 3.31 | 3.11 | 2.94 | 2.78 | 2.65 |
| 54 | 6.00 | 5.40 | 4.90 | 4.50 | 4.15 | 3.85 | 3.60 | 3.37 | 3.17 | 3.00 | 2.84 | 2.70 |
| 55 | 6.11 | 5.50 | 5.00 | 4.58 | 4.23 | 3.92 | 3.66 | 3.43 | 3.23 | 3.05 | 2.90 | 2.75 |
| 56 | 6.22 | 5.60 | 5.09 | 4.66 | 4.30 | 4.00 | 3.73 | 3.50 | 3.29 | 3.11 | 2.95 | 2.80 |
| 57 | 6.33 | 5.70 | 5.18 | 4.75 | 4.38 | 4.07 | 3.80 | 3.56 | 3.35 | 3.16 | 3.00 | 2.85 |
| 58 | 6.44 | 5.80 | 5.27 | 4.83 | 4.46 | 4.14 | 3.86 | 3.62 | 3.41 | 3.22 | 3.05 | 2.90 |
| 59 | 6.55 | 5.90 | 5.36 | 4.91 | 4.53 | 4.21 | 3.93 | 3.68 | 3.47 | 3.27 | 3.11 | 2.95 |
| 60 | 6.66 | 6.00 | 5.45 | 5.00 | 4.61 | 4.28 | 4.00 | 3.75 | 3.52 | 3.33 | 3.16 | 3.00 |
| 61 | 6.77 | 6.10 | 5.45 | 5.08 | 4.69 | 4.35 | 4.06 | 3.81 | 3.58 | 3.38 | 3.21 | 3.05 |
| 62 | 6.88 | 6.20 | 5.63 | 5.16 | 4.76 | 4.42 | 4.13 | 3.87 | 3.64 | 3.44 | 3.26 | 3.10 |
| 63 | 7.00 | 6.30 | 5.72 | 5.25 | 4.84 | 4.50 | 4.20 | 3.93 | 3.70 | 3.50 | 3.32 | 3.15 |
| 64 | 7.11 | 6.40 | 5.81 | 5.33 | 4.92 | 4.57 | 4.26 | 4.00 | 3.76 | 3.55 | 3.37 | 3.20 |
| 65 | 7.22 | 6.50 | 5.90 | 5.41 | 5.00 | 4.64 | 4.33 | 4.06 | 3.82 | 3.61 | 3.42 | 3.25 |
| 66 | 7.33 | 6.60 | 6.00 | 5.50 | 5.07 | 4.71 | 4.40 | 4.12 | 3.88 | 3.66 | 3.47 | 3.30 |
| 67 | 7.44 | 6.70 | 6.09 | 5.58 | 5.15 | 4.78 | 4.46 | 4.18 | 3.94 | 3.72 | 3.53 | 3.35 |
| 68 | 7.55 | 6.80 | 6.18 | 5.66 | 5.23 | 4.85 | 4.53 | 4.25 | 4.00 | 3.77 | 3.58 | 3.40 |
| 69 | 7.66 | 6.90 | 6.27 | 5.75 | 5.30 | 4.92 | 4.60 | 4.31 | 4.05 | 3.83 | 3.63 | 3.45 |
| 70 | 7.77 | 7.00 | 6.36 | 5.83 | 5.38 | 5.00 | 4.66 | 4.37 | 4.11 | 3.88 | 3.68 | 3.50 |
| 71 | 7.88 | 7.10 | 6.45 | 5.91 | 5.46 | 5.07 | 4.73 | 4.43 | 4.17 | 3.94 | 3.74 | 3.55 |
| 72 | 8.00 | 7.20 | 6.54 | 6.00 | 5.53 | 5.14 | 4.80 | 4.50 | 4.23 | 4.00 | 3.79 | 3.60 |
| 73 | 8.11 | 7.30 | 6.63 | 6.08 | 5.61 | 5.21 | 4.86 | 4.56 | 4.29 | 4.05 | 3.84 | 3.65 |
| 74 | 8.22 | 7.40 | 6.72 | 6.16 | 5.69 | 5.28 | 4.93 | 4.62 | 4.35 | 4.11 | 3.89 | 3.70 |
| 75 | 8.33 | 7.50 | 6.81 | 6.25 | 5.76 | 5.35 | 5.00 | 4.68 | 4.41 | 4.16 | 3.95 | 3.75 |
| 76 | 8.44 | 7.60 | 6.90 | 6.33 | 5.84 | 5.42 | 5.06 | 4.75 | 4.47 | 4.22 | 4.00 | 3.80 |
| 77 | 8.55 | 7.70 | 7.00 | 6.42 | 5.92 | 5.50 | 5.13 | 4.81 | 4.53 | 4.28 | 4.05 | 3.85 |
| 78 | 8.66 | 7.80 | 7.09 | 6.50 | 6.00 | 5.57 | 5.20 | 4.88 | 4.59 | 4.33 | 4.11 | 3.90 |
| 79 | 8.77 | 7.90 | 7.18 | 6.58 | 6.08 | 5.64 | 5.27 | 4.94 | 4.65 | 4.39 | 4.16 | 3.95 |
| 80 | 8.88 | 8.00 | 7.27 | 6.67 | 6.15 | 5.71 | 5.33 | 5.00 | 4.71 | 4.44 | 4.21 | 4.00 |
| 81 | 9.00 | 8.10 | 7.36 | 6.75 | 6.23 | 5.79 | 5.40 | 5.06 | 4.76 | 4.50 | 4.26 | 4.05 |
| 82 | 9.11 | 8.20 | 7.45 | 6.83 | 6.31 | 5.86 | 5.47 | 5.13 | 4.82 | 4.56 | 4.32 | 4.10 |
| 83 | 9.22 | 8.30 | 7.54 | 6.92 | 6.38 | 5.93 | 5.53 | 5.19 | 4.88 | 4.61 | 4.37 | 4.15 |
| 84 | 9.33 | 8.40 | 7.64 | 7.00 | 6.46 | 6.00 | 5.60 | 5.25 | 4.94 | 4.67 | 4.42 | 4.20 |
| 85 | 9.44 | 8.50 | 7.72 | 7.08 | 6.54 | 6.07 | 5.67 | 5.31 | 5.00 | 4.72 | 4.47 | 4.25 |
| 86 | 9.55 | 8.60 | 7.81 | 7.16 | 6.62 | 6.14 | 5.73 | 5.38 | 5.06 | 4.78 | 4.53 | 4.30 |
| 87 | 9.66 | 8.70 | 7.90 | 7.25 | 6.69 | 6.21 | 5.80 | 5.44 | 5.12 | 4.83 | 4.58 | 4.35 |
| 88 | 9.77 | 8.80 | 8.00 | 7.33 | 6.77 | 6.29 | 5.87 | 5.50 | 5.18 | 4.89 | 4.63 | 4.40 |
| 89 | 9.88 | 8.90 | 7.09 | 7.41 | 6.85 | 6.36 | 5.93 | 5.56 | 5.24 | 4.94 | 4.68 | 4.45 |
| 90 | 10.00 | 9.00 | 8.18 | 7.50 | 6.92 | 6.43 | 6.00 | 5.63 | 5.29 | 5.00 | 4.74 | 4.50 |

REAR WHEEL SPROCKET TEETH

| JACK SHAFT | | | | | |
|------------|----------|----------|----------|----------|----------|
| 15-30-13 | 15-30-14 | 15-30-15 | 15-45-20 | 15-45-21 | 17-35-16 |
| 8.30 | 7.71 | 7.20 | 8.10 | 7.71 | 6.95 |
| 8.46 | 7.86 | 7.33 | 8.25 | 7.85 | 7.08 |
| 8.61 | 8.00 | 7.47 | 8.40 | 8.00 | 7.21 |
| 8.76 | 8.14 | 7.60 | 8.55 | 8.14 | 7.34 |
| 8.92 | 8.29 | 7.73 | 8.70 | 8.29 | 7.46 |
| 9.07 | 8.43 | 7.87 | 8.85 | 8.43 | 7.59 |
| 9.23 | 8.57 | 8.00 | 9.00 | 8.57 | 7.72 |
| 9.38 | 8.71 | 8.13 | 9.15 | 8.71 | 7.82 |
| 9.53 | 8.86 | 8.27 | 9.30 | 8.85 | 7.94 |
| 9.69 | 9.00 | 8.40 | 9.45 | 9.00 | 8.07 |
| 9.84 | 9.14 | 8.53 | 9.60 | 9.14 | 8.20 |
| 10.00 | 9.29 | 8.67 | 9.75 | 9.28 | 8.32 |
| 10.15 | 9.43 | 8.80 | 9.90 | 9.43 | |
| 10.30 | 9.57 | 8.93 | 10.05 | | |
| 10.46 | 9.71 | 9.07 | | | |
| 10.62 | 9.86 | 9.20 | | | |
| 10.77 | 10.00 | 9.33 | | | |
| 10.92 | 10.14 | 9.47 | | | |
| 11.08 | 10.29 | 9.60 | | | |

TO FIND A RATIO:

Locate the number of teeth on your drive hub at the top of the chart. Locate the number of teeth on your sprocket on the left side of the chart. Follow both numbers to the ratio number.

TO FIND YOUR CURRENT RATIO:

Divide The number of teeth in the rear wheel sprocket by the number of teeth in the drive hub.

TO FIND A GEAR FOR A RATIO:

Locate the ratio in the chart. Follow the column up to the number of teeth and to the left to the rear wheel sprocket. More than one combination may apply for a gear ratio.

JACK SHAFT FORMULA:

Divide engine hub by large sprocket on jackshaft. Divide small gear on jackshaft by rear sprocket.
Example:
(A/B) x (C/D) = Ratio
30 ÷ 15 = 2
54 ÷ 13 = 4.15
4.15 x 2 = 8.3

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