

METRIC CONVERSIONS

Article Text

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 09:20PM

ARTICLE BEGINNING

GENERAL INFORMATION

METRIC CONVERSIONS

METRIC CONVERSIONS

Metric conversions are making life more difficult for the mechanic. In addition to doubling the number of tools required, metric-dimensioned nuts and bolts are used alongside English components in many new vehicles. The mechanic has to decide which tool to use, slowing down the job. The tool problem can be solved by trial and error, but some metric conversions aren't so simple. Converting temperature, lengths or volumes requires a calculator and conversion charts, or else a very nimble mind. Conversion charts are only part of the answer though, because they don't help you "think" metric, or "visualize" what you are converting. The following examples are intended to help you "see" metric sizes:

LENGTH

Meters are the standard unit of length in the metric system. The smaller units are 10ths (decimeter), 100ths (centimeter), and 1000ths (millimeter) of a meter. These common examples might help you to visualize the metric units:

- * A meter is slightly longer than a yard (about 40 inches).
- * An aspirin tablet is about one centimeter across (.4 inches).
- * A millimeter is about the thickness of a dime.

VOLUME

Cubic meters and centimeters are used to measure volume, just as we normally think of cubic feet and inches. Liquid volume measurements include the liter and milliliter, like the English quarts or ounces.

- * One teaspoon is about 4 cubic centimeters.
- * A liter is about one quart.
- * A liter is about 61 cubic inches.

WEIGHT

The metric weight system is based on the gram, with the most common unit being the kilogram (1000 grams). Our comparable units are ounces and pounds:

- * A kilogram is about 2.2 pounds.
- * An ounce is about 28 grams.

TORQUE

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UNIT CONVERSION			
3TO CONVERT	3TO	3 MULTIPLY BY	3

3LENGTH	3	3	3
3Millimeters (mm)	3Inches	3	3 .03937
3Inches	3Millimeters	3	3 25.4
3Meters (M)	3Feet	3	3 3.28084
3Feet	3Meters	3	3 .3048
3Kilometers(Km)	3Miles	3	3 .62137

3AREA	3	3	3
3Square Centimeters (cm ²)	3Square Inches	3	3 .155
3Square Inches	3Square Centimeters	3	3 6.45159

3VOLUME	3	3	3
3Cubic Centimeters	3Cubic Inches	3	3 .06103

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Cubic Inches	Cubic Centimeters		16.38703
Liters	Cubic Inches		61.025
Cubic Inches	Liters		.01639
Liters	Quarts		1.05672
Quarts	Liters		.94633
Liters	Pints		2.11344
Pints	Liters		.47317
Liters	Ounces		33.81497
Ounces	Liters		.02957
<hr/>			
WEIGHT			
Grams	Ounces		.03527
Ounces	Grams		28.34953
Kilograms	Pounds		2.20462
Pounds	Kilograms		.45359
<hr/>			
WORK			
Centimeter Kilograms	Inch Pounds		.8676
Pounds/Sq. Inch	Kilograms/Sq.Centimeter		.07031
Bar	Pounds/Sq. Inch		14.504
Pounds/Sq. Inch	Bar		.06895
Atmosphere	Pounds/Sq. Inch		14.696
Pounds/Sq. Inch	Atmosphere		.06805
<hr/>			
TEMPERATURE			
Centigrade Degrees	Fahrenheit Degrees	(°C x 9) / 5 + 32	
Fahrenheit Degrees	Centigrade Degrees	(°F - 32) x 5 / 9	
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CONVERSION FACTORS (Cont.)

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$\frac{19}{64}$.297	7.541
$\frac{35}{16}$.313	7.938
$\frac{21}{64}$.328	8.334
$\frac{11}{32}$.344	8.731
$\frac{23}{64}$.359	9.128
$\frac{3}{8}$.375	9.525
$\frac{25}{64}$	.391	9.992
$\frac{13}{32}$	.406	10.319
$\frac{27}{64}$	.422	10.716
$\frac{7}{16}$	.438	11.113
$\frac{29}{64}$	.453	11.509
$\frac{15}{32}$	.469	11.906
$\frac{31}{64}$	.484	12.303
$\frac{1}{2}$	.500	12.700
$\frac{33}{64}$	.516	13.097
$\frac{17}{32}$	.531	13.494
$\frac{35}{64}$	.547	13.891
$\frac{9}{16}$	.563	14.288
$\frac{37}{64}$	.578	14.684
$\frac{19}{32}$	.594	15.081
$\frac{39}{64}$	.609	15.478
$\frac{5}{8}$	.625	15.875
$\frac{41}{64}$	.641	16.272
$\frac{21}{32}$	.656	16.669
$\frac{43}{64}$	.672	17.066
$\frac{11}{16}$	.687	17.463
$\frac{45}{64}$	.703	17.859
$\frac{23}{32}$	.719	18.256
$\frac{47}{64}$	.734	18.653
$\frac{3}{4}$	.750	19.050
$\frac{49}{64}$	.766	19.447
$\frac{25}{32}$	.781	19.844
$\frac{51}{64}$	.797	20.241
$\frac{13}{16}$	.813	20.638
$\frac{53}{64}$	.828	21.034
$\frac{27}{32}$	.844	21.431
$\frac{55}{64}$	.859	21.828
$\frac{7}{8}$	.875	22.225
$\frac{57}{64}$	.891	22.622
$\frac{29}{32}$	.906	23.019
$\frac{59}{64}$	.922	23.416
$\frac{15}{16}$	.938	23.813
$\frac{61}{64}$	.953	24.209
$\frac{31}{32}$	.969	24.606
$\frac{63}{64}$	.984	25.003
$\frac{1}{1}$	1.000	25.400

[illegible]

END OF ARTICLE