

HPBooks

AUTO MATH HANDBOOK

Displacement
cylinder volume = $\pi \times$
 $\div 4 \times$ bore² $\times$ stroke
displacement = $\pi \times$ 4
 $\times$ bore² $\times$ stroke $\times$
number of cylinders
stroke = displacement
 $\div (\pi \times 4 \times$ bore² $\times$
number of cylinders)
bore = displacement
 $\div (\pi \times 4 \times$ stroke $\times$
number of cylinders)

Revised Edition!

Weight Distribution
percent of weight on
wheels = weight on

Center of Gravity
cg location behind front wheels
= rear wheel weight $\div$ overall
weight $\times$ wheelbase

Horsepower & Torque
horsepower = rpm $\times$
torque $\div 5252$ torque =
5252 $\times$ horsepower $\div$
rpm BSFC = fuel pounds

piston speed in fpm =
stroke in inches $\times$ rpm $\div 6$

**Easy Calculations for Engine Builders,
Auto Engineers, Racers, Students,
and Performance Enthusiasts**

John Lawlor & Bill Hancock

gForce & Weight Transfer
drive wheel torque = flywheel
torque $\times$ first gear $\times$ final
drive $\times 0.85$
wheel thrust = drive wheel
torque $\div$ rolling radius
 $g =$ wheel thrust $\div$ weight
weight transfer = weight $\times$ cg height $\div$ wheel-
base $\times g$ lateral acceleration = 1.227 $\times$ radius

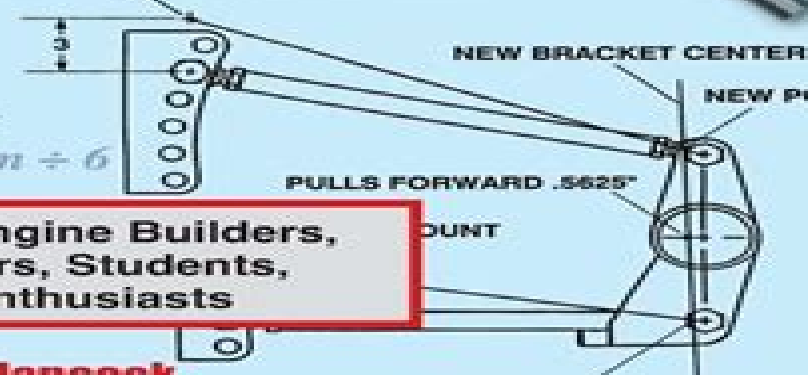
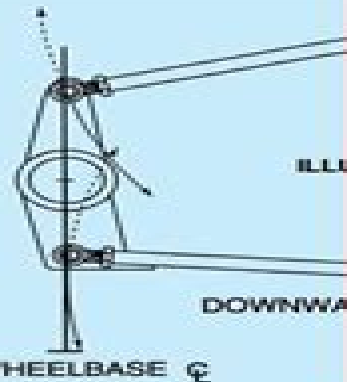
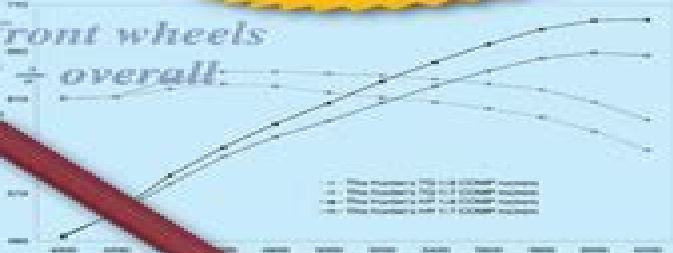
NEW POSITION LOWER TAB

POINT

PULLS FORWARD .5625"

NEW BRACKET CENTER

NEW POSITION UPPER LINK MOUNT



Auto Math Handbook

**John Lawlor, William Hancock, Bill
Hancock**



Auto Math Handbook:

Auto Math Handbook John Lawlor, 1991 Offers formulas and equations for calculating brake horsepower and torque displacement stroke bore compression ratio and more **Auto Math Handbook** John Lawlor, William Hancock, Bill Hancock, 2011 Since 1991 John Lawlor's Auto Math Handbook has been a standard reference for auto engineers students racers and enthusiasts The formulas calculations and equations in this book are the foundation for any car or engine building project Engineer and racing engine builder Bill Hancock has updated and expanded the original edition with revised sections on Displacement bore and stroke Brake horsepower and torque Air capacity and volumetric efficiency Center of gravity weight distribution and g force New sections on instrument error and calibration rolling resistance aerodynamics planimeter usage computer programs and moment of inertia are presented in the same easy to read format using real world applications

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Performance Automotive Engine Math John Baechtel, 2011 A reference book of math equations used in developing high performance racing engines including calculating engine displacement compression ratio torque and horsepower intake and header size carb size VE and BSFC injector sizing and piston speed book cover *Welder's Handbook* Richard Finch, 2007-02-21 A newly updated state of the art guide to MIG and TIG arc welding technology Written by a noted authority in the field this revised edition of HP's bestselling automotive book for over 20 years is a detailed instructional manual on the theory technique equipment and proper procedures of metal inert gas MIG and tungsten inert gas TIG welding **The**

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