

HPBooks

AUTO MATH HANDBOOK

Displacement
cylinder volume = $\pi \times 4 \times \text{bore}^2 \times \text{stroke}$
displacement = $\pi \times 4 \times \text{bore}^2 \times \text{stroke} \times$
number of cylinders
stroke = displacement ÷ ($\pi \times 4 \times \text{bore}^2 \times$
number of cylinders)
bore = displacement ÷ ($\pi \times 4 \times \text{stroke} \times$
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 ÷ overall
weight × wheelbase

Horsepower & Torque
horsepower = $\text{rpm} \times$
torque ÷ 5252
torque = $5252 \times \text{horsepower} \div$
rpm
BSFC = fuel pounds

piston speed in fpm =
stroke in inches × rpm ÷ 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 × first gear × final
drive × 0.85
wheel thrust = drive wheel
torque ÷ rolling radius
 $g = \text{wheel thrust} \div \text{weight}$
weight transfer = weight × cg height ÷ wheel-
base × g lateral acceleration = $1.227 \times \text{radius}$

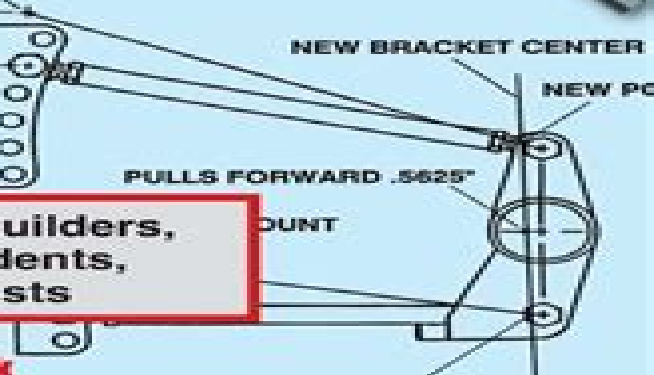
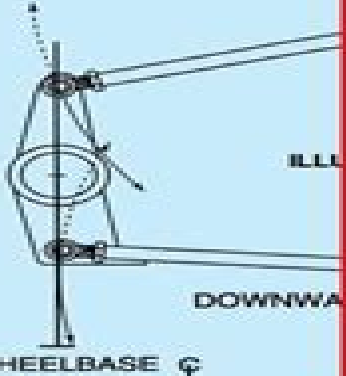
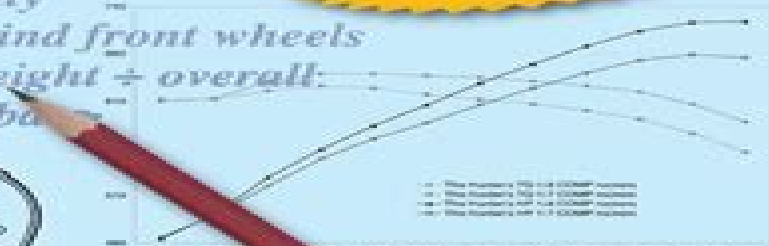
NEW POSITION LOWER TAB

POINT

PULLS FORWARD .5625"

NEW BRACKET CENTER

NEW POSITION UPPER LINK MOUNT



Auto Math Handbook

John Lawlor



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

Auto Math Handbook John Lawlor, 2011 **Automotive Math Handbook** Forbes Aird, 2000 Offers formulas and equations for calculating brake horsepower and torque displacement stroke bore and compression ratio Auto Math Handbook, 2011 **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 Four-Wheeler's Bible** Jim Allen, James Weber, 2021-06 This thoroughly updated edition of The Four Wheeler's Bible is the ultimate resource for those with a hankering for the sand and mud whether they plan to stick close to home or venture farther afield **Torqueflite A-727 Transmission Handbook HP1399** Carl Munroe, 2003-08-05 This book provides step by step instructions for how to modify Chrysler's 904 Torqueflite automatic transmission for drag racing road racing and circle racing Topics include theory of operation transbrakes valve bodies adapters disassembly modifications assembly adjustments installation high horsepower application and torque converters *Toyota MR2 Performance HP1553* Terrell Heick, 2009-11-03 A complete owner's guide for owners and enthusiasts of Toyota's MR2 one of the most successful mid engined sports cars ever built Includes History sales and model year details OEM Maintenance and Repairs Chassis Brake Engine Bolt On Modifications Racing Your MR2 Safety and staged combinations to build MR2s for any high performance use from mild street to autocrossing and road racing

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