

Advertised Intake Dur in use Intake Closing Angle in use Dynamic Stroke
Length CalculatorCam Timing and
Overlap CalculatorCompression Ratio
Calculator

Compression Ratio Calculator

Number of Cylinders Bore Diameter [in] Stroke [in] Check box for Dynamic Stroke Combustion Chamber Volume [cc] Head Gasket Thickness [in] Head Gasket Bore [in] Piston To Deck clearance [in]

What type of pistons do you have?

Flat or Dished Dome Dish/ValveRelief/Dome Volume [positive cc] Quench Distance Displacement [Cubic Inches] Displacement [liter] Calculated Static Compression Ratio

Calculate

Clear

Exit

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Timing and Overlap Calculator

Input

Advertised Intake Duration Advertised Exhaust Duration Lobe Separation Intake Lobe Centerline

Results

Seat Timing Open Close

Intake BTDC ABDCExhaust BBDC ATDCOverlap Total Cam Adv

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Dynamic Stroke Length Calculator

Input

Crank Stroke

Rod Length

ADV Intake
Closing Angle

Since compression cannot start until the intake valve closes completely, it is necessary to use seat timing rather than .050" timing. Be sure to use the advertised duration or intake seat timing for Dynamic Compression Ratio

Results

Dynamic Stroke
Length

Distance of
piston from BDC

Use the Dynamic Stroke Length to calculate the Dynamic Compression Ratio. Using your favorite CR Calculator or the one included here, input this number for the stroke.

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Design by Pat Kelley
Programing by Pat KelleyFormula by Pat Kelley and
Ray Forceno

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