

Compression Ratio Worksheet

Use this worksheet to compute your compression ratio. You will need to already have all of the numbers in the "Input Numbers" section, either by taking measurements or from manufacturer specifications. All of the numbers in the second section are calculated.

Input Numbers:

	in	Bore (diameter of the bore, in inches)
	in	Stroke (length of the stroke, in inches)
	cc	Combustion Chamber Volume (in CCs)
	in	Deck Height (distance from the edge of the piston to the block's deck, in inches. For an above deck piston, use a negative number.)
	in	Gasket Bore (diameter of the bore in the head gasket you are using, in inches)
	in	Gasket Thickness (compressed thickness of the head gasket you are using, in inches)
	cc	Piston Relief Volume (if your piston is dished or has valve reliefs, enter the dish and/or relief volume here, in CCs; otherwise, zero)
	cc	Piston Dome Volume (if your piston is domed, enter the dome volume here, in CCs; otherwise zero)

Calculated Numbers:

	cc	Deck Volume (Bore x Bore x Deck Height x 12.87)
	cc	Gasket Volume (Gasket Bore x Gasket Bore x Gasket Thickness x 12.87)
	cc	Swept Volume (Bore x Bore x Stroke x 12.87)
	cc	Clearance Volume (Combustion Chamber Volume + Deck Volume + Gasket Volume + Piston Relief Volume - Piston Dome Volume)
	cc	Total Volume (Swept Volume + Clearance Volume)
	:1	Compression Ratio (Total Volume / Clearance Volume)