

Compression Ratio Calculation

Formula to determine Compression Ratio

.7854 x the number of cylinders x stroke x bore x bore = Total Cubic Inches

(Total Cu. In.) _____ ÷ # cyl. = _____ (Cu. In. per cyl.)

(Cu. In. per cyl.) _____ x 16.387 = _____ (cc per cyl.)

_____ Gasket thickness

+ _____ Deck thickness

= _____ Total

.7854 x the number of cylinders x stroke (gasket + deck total) x bore x bore = Total Cubic Inches

(Total Cu. In.) _____ ÷ the number of cylinders = (Cu. In. per cyl.)

(Cu. In. per cyl.) _____ x 16.387 = (cc per cyl.)

_____ cc of gasket + deck

_____ cc of combustion chamber

- _____ cc of dome

+ _____ cc of valve reliefs or reverse dome

_____ Total assembly volume

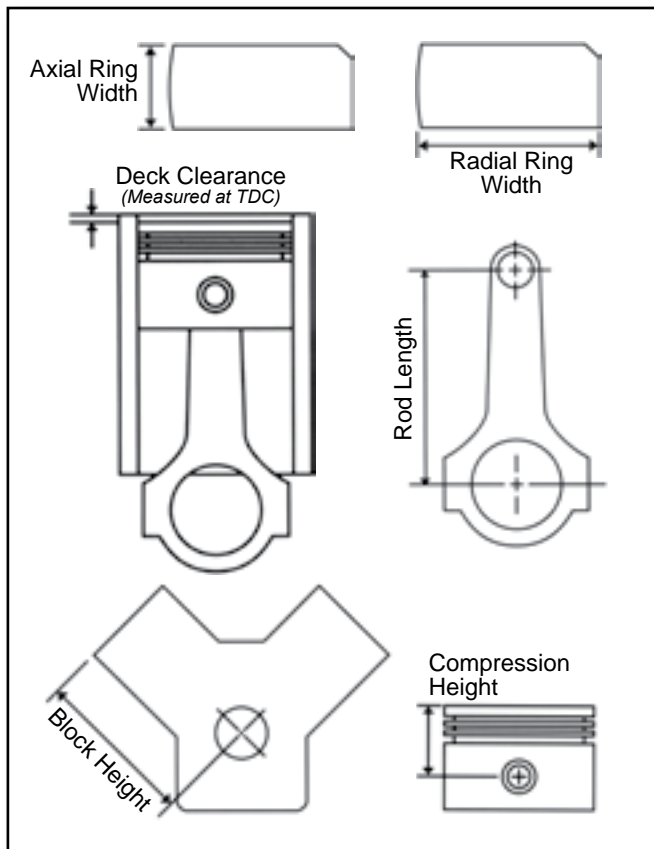
_____ Assembly volume

_____ Cyl. volume

_____ Total

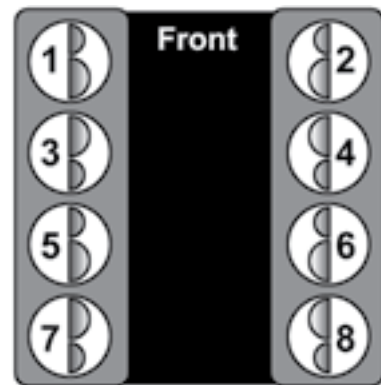
Assembly volume, plus cylinder volume, divided by assembly volume = Compression ratio

Important Dimensions



Piston Orientation

Replacement pistons for 8-cylinder Chevy & Chrysler motors



- Cylinders 1, 4, 5 & 8 are left pistons and have exhaust Valve Pockets on left side.
- Cylinders 2, 3, 6 & 7 are right pistons and have exhaust Valve Pockets on right side.
- 90° V-6 Chevy motors require 4 left and 2 right pistons.