

Brand:Speedmaster
Part Number: PCE281.2148
Part Type:Cylinder Heads

Cylinder Head Style:Assembled
Cylinder Head Material:Aluminum
Cylinder Head Finish:Natural
Combustion Chamber Volume (cc):68 cc
CNC-Machined Combustion Chamber:No
Intake Runner Volume (cc): 190 cc
Exhaust Runner Volume (cc): n/a
CNC-Machined Intake Runner: Yes
CNC-Machined Exhaust Runner: Yes
Intake Port Shape: Rectangular
Intake Port Location: Standard
Exhaust Port Shape: OEM
Exhaust Port Location: Standard
Spark Plug Style: OEM
Comp. Valve Job: No
Intake Valves Included: Yes
Intake Valve Diameter (in): 2.202 in.
Exhaust Valves Included: Yes
Exhaust Valve Diameter (in): 1.620 in.
Valve Springs Included: Yes
Maximum Valve Lift (in):0.600 in.
Outside Diameter of Outer Spring (in):1.450 in.
Damper Spring Included:Yes
Number of Springs Per Valve:Dual
Retainers Included:Yes
Retainer Material:Chromoly steel
Locks Included:Yes
Lock Style:10 degree
Valve Stem Seals Included:Yes
Valve Stem Seal Style:Positive stop
Rocker Arm Studs Included: No
Rocker Arms Included: No
Rocker Arm Nuts Included: No
Guideplates Included: No
Valve Cover Mounting Style: Center & Perimeter Bolt
Accessory Bolt Holes Drilled: Yes
Intake Valve Angle: 18 deg.
Exhaust Valve Angle: 18 deg.
Valve Guides Included: Yes
Valve Guide Material: Bronze
Valve Seats Machined: Yes
Valve Seat Machine Style: 3-angle
Valve Seat Material: Ductile iron
Steam Holes Drilled: No
Oiling Style: Through pushrod
Machined for O-Ring: No
Heat Crossover: No
Quantity:Sold as a pair.
Calculator[Compression Calculator](#)

Assembly Specifications

Max Lift: .600
Coil Bind: .1.060
Intake Install: 145lbs @ 1.9
Exhaust Install: 145lbs @ 1.9
Closed Sear Pressure: 145lbs
Open Seat Pressure: 360lbs

As with all Speedmaster cylinder heads, our Small Block Chrysler heads are Gravity Die Cast . This casting process creates a much more uniform and robust cylinder head. With the increasingly large displacements

becoming common, the need for more airflow is necessary. If you are looking to build a 400-500+hp engine, give our PCE281.1654 heads a try. They offer a smaller cross - section to increase the incoming air s velocity, resulting in great driveability, power and economy. On engines over 500hp, use the CNC Ported PCE281.1656 heads. The mid-size cross section works well on larger displacement engines and in and under 7000RPM. If you re looking for more horsepower the PCE281.1658 with their competition valve job fit the bill perfectly.

HEAD GASKETS

Due to the wide combustion chamber needed to fit around the large 2.202/ 1.620 valves, we recommend Felpro 1008 gaskets will also work with these head/ block combos. .

INTAKE GASKETS

The PCE281.1488 heads work well with our PCE349.1010 rectangle port gaskets. If you prefer Felpro gaskets, these Chrysler heads take a 1213 gasket, depending on the thickness you require.

SPARK PLUGS

Our heads require the use of 14mm. x 3/4 reach 5/8 hex gasket seat sparkplugs. Some recommended plugs are; NGK BCPR6ES or R5671A-7, Champion RC12YC, Autolite AR3923 or AR3924. Remember these are for mild street engines. Higher compression or boost requires colder sparkplugs!

HEAD BOLTS / STUDS

Due to the raised (+.625) exhaust port location on our heads, +.100 longer bolts / studs are needed next to each port. Use our PCE279.1017 head stud Kit.

Please consult your fastener manufacturer for their specific recommended torque values.