



Chevrolet V8 350 Cylinder Head – CH350C

Intake runner 170CC

Combustion Chamber 64CC Vortec style

1996 - 2006 Intake manifold bolt pattern

Center bolt down valve cover holes

CH350C Specifications

	INTAKE	EXHAUST
Port Volume:	170cc	67cc
Port Dimension:	1.200" X 2.025"	1.350" X 1.400"
Port Location:	Stock	
Valves:	1.940" X .3414" X 4.88" 2G	1.500" X .3412" X 4.92", 2G
Valve Springs:	1.25 OD X .87 ID X 80 LB @ 1.7	1.25 OD X .87 ID X 80 LB @ 1.7
Valve Seals:	.343 X 530 X VITON	.343 X 530 X VITON
Chamber Volume:	64cc	
Spark Plug Location:	Stock - straight	
Spark Plug Type:	14 mm	
Intake Manifold Bolt pattern:	1996 - 2006	
Valve Cover mounting:	Center bolt down	
Weight:	51 lbs	

- Highest grade of material used in manufacturing
- Thicker decks for greater strength
- Superior port finishes for increased flow
- Improved flow design to resist cracking
- Redesigned water flow for greater thermal conductivity
- Hardened exhaust seats

Flat Milling: .006" per cc

Angle Milling: .0075" per cc (excessive milling can cause intake manifold misalignment)

Head Bolt Torque: Refer to cylinder head bolt manufacturer's specifications

Rocker Stud Torque: 45 lb/ft

Intake Manifold Torque: 35 lb/ft

Spring Pocket Machining: Can be machined to 1.550" maximum diameter, cannot be machined deeper

Pushrod Length: Measuring with length checker (COMP Cams® #7705) required to verify pushrod geometry

Piston to Valve Clearance: Must be verified - minimum clearance is .080" intake and .100" exhaust

Retainer to Guide Clearance: Must always be measured when using high lift cams

Chamber to Dome Clearance: Must always be checked with domed pistons, clearance may be necessary

Chamber Volume: Varies due to valve margins and dishes, should always be verified before installation

Valve Guide Clearance: Must be checked due to the variance in valve stem diameters between manufacturers

Recommended clearance: intake .0015"-.0016", exhaust .002"-.0025"

Water jackets require flushing prior to cylinder head installation

Header/Spark Plug Clearance: Spark plug/ wire boot clearance verification is required prior to header installation.

Minor modifications may be necessary in order to achieve proper clearance.

Spark Plugs: ZEX™ #82070-8 Street/strip 14mm, .708" reach, 5/8" hex, premium spark plug set

ZEX™ #82209-8 Race: Champion S57YC, 14mm, .708" reach, 5/8" hex, spark plug set

Rocker Arms: COMP Cams® #1301-16* Pro Magnum™ 1.52 ratio rocker arm set, 3/8" stud diameter

Intake Gaskets: RHS™ #1707 Intake manifold gasket, 2.09" X 1.28" port, .060" thick

Exhaust Gaskets: RHS™ #1708 Header gasket, 1.500" X 1.500" port size, graphite

Head Gaskets: RHS™ #1700 Cylinder head gasket, 4.060" bore X .041" compressed thickness

RHS™ #1701 Cylinder head gasket, 4.165" bore X .041" compressed thickness

Head Bolts: HB350P EngineQuest or ARP #134-3701 HP head bolt set, 265-400 SBC

Head Studs: ARP #234-4301 8740 head stud set, 265-400 SBC