



Pro Action™ Small Block Chevy Cylinder Head #12317

DESCRIPTION

RHS™ Pro Action™ Small Block Chevy 23° cylinder head, bare casting cast iron, 180cc intake runner, 64cc combustion chamber, straight plug 2.020" intake/1.600" exhaust valves

Specifications

	Intake	Exhaust
Port Volume:	180cc	74cc
Port Dimension:	1.200" X 2.025"	1.350" X 1.400"
Port Location:	Stock	stock
Valve Angle:	23°(stock angle)	23°(stock angle)
Valve Head Diameter:	2.020"	1.600"
Valve Length:	5.011" (std length + .100")	5.011" (std length + .100")
Valve Seat Dimensions:	2.120" X 1.812" X .375"	1.656" X 1.350" X .375"
Valve Seat Angles:	35/45/60/75	35/45/55/radius
Valve Guide Diameter:	11/32"	11/32"
Valve Guide Dimensions:	.502" O.D. X 2.130"L X .530" boss dia.	.502" O.D. X 2.130"L X .530" boss dia.
Valve Guide Spacing:	1.890"	
Valve Guide Material:	Premium bronze material for superior heat dissipation and longer life	
Cylinder Head Material:	Cast iron	
Chamber Volume:	64cc	
Spark Plug Configuration:	Straight plug	
Spark Plug Type:	14mm, .708" reach, 5/8" hex, taper seat style (new RHS™ castings only) 14mm, .450" reach, 5/8" hex, taper seat style (old Pro Topline castings only)	
Spring Pocket Diameter:	1.55"	
Pushrod Diameter:	5/16" (larger diameter will require clearancing)	
Weight:	50 lbs	

Features

- Optimal port design for greater flow, better atomization & enhanced dynamics
- Unique multi-angled intake & radiused exhaust valve seats for increased flow and horsepower output
- Hardened valve seats for exceptional durability even when used in extreme applications with harsh fuels
- More efficient water jacket design for improved cooling and thermal conductivity, and reduced risk of detonation
- Thick deck faces with added material to allow angle milling for increased compression
- Revised combustion chamber design for excellent combustion thermodynamics and enhanced fuel efficiency
- All accessory bolt holes drilled and tapped to exact tolerances

Tech Notes

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 1.625" 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, clearancing 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"
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.

RHS™

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Part #12317IS
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Suggested Assembly Components

Part Type	Brand/Part #	Description
Intake Valves	COMP Cams® #6001-8	2.020", + .100" long, 11/32" valve stem diameter
Exhaust Valves	COMP Cams® #6002-8	1.600", + .100" long, 11/32" valve stem diameter
Valve Springs*	COMP Cams® #972-16 (-01)	1.460 single valve spring set, 124# @ 1.800" max lift .560"
	COMP Cams® #987-16 (-02)	1.430 dual valve spring set, 95# @ 1.800" max lift .550"
Retainers*	COMP Cams® #743-16 (-01)	1.400" 7° steel retainer set
	COMP Cams® #740-16 (-02)	1.400" 10° Super Lock™ steel retainer set
Valve Locks*	COMP Cams® #601-16 (-01)	11/32" 7° valve lock set
	COMP Cams® #611-16 (-02)	11/32" 10° Super Lock™ valve lock set
Valve Stem Seals	COMP Cams® #529-16	.530" metal body viton valve stem seals
Spring Locators*	COMP Cams® #4696-16 (-01)	1.510" valve spring locators
	COMP Cams® #4771-16 (-02)	1.550" valve spring locators
Guide Plates	COMP Cams® #4808-8	5/16" guide plate set
Rocker Arm Studs	COMP Cams® #4502-16	3/8" Magnum™ rocker arm stud set
	COMP Cams® #4503-16	7/16" Magnum™ rocker arm stud set

Additional Recommended Components

Part Type	Brand/Part #	Description
Spark Plugs, RHS™	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
Spark Plugs, Pro Topline	ZEX™ #82211-8	Street/strip: Champion V59C, 14mm, .450" reach, 5/8" hex, spark plug set
	ZEX™ #82212-8	Race: Champion V57C, 14mm, .450" 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
Shaft Mount Rockers	COMP Cams® #1503	1.6 ratio shaft-mounted full roller aluminum rocker arms
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
Valve Cover Gaskets	RHS™ #1709	Valve cover gasket, .120" thick, silicone reinforced
Head Bolts**	ARP #134-3701	HP head bolt set, 265-400 SBC
Head Studs**	ARP #234-4301	8740 head stud set, 265-400 SBC
Stud Girdle**	COMP Cams® #4004	Aluminum stud girdle set, 265-400 SBC

Application Notes

- * -01 indicates flat tappet application
- * -02 indicates hydraulic roller application
- ** Recommended components only, individual application must be verified prior to installation



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