

DESCRIPTION

RHS[™] Pro Action[™] Small Block Chevy 23° cylinder head, hydraulic roller assembly aluminum, 180cc intake runner, 64cc combustion chamber, straight plug 2.020" intake/1.600" exhaust valves

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:	Aluminum			
Chamber Volume:	64cc			
Spark Plug Configuration:	Straight plug			
Spark Plug Type:	14mm, .750" reach, 5/8" hex, flat gasket style			
Spring Pocket Diameter:	1.55"			
Pushrod Diameter:	5/16" (larger diameter will require clearancing)			
Weight:	24 lbs Features			
	er 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 specifi	ications		
Rocker Stud Torque:	45 lb/ft			
Intake Manifold Torque:	35 lb/ft			
Spring Pocket Machining:	Can be machined to 1.625" maximum diameter, of	-		
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, cle			
Chamber Volume:	Varies due to valve margins and dishes, should a	-		
Valve Guide Clearance:	Must be checked due to the variance in valve ste			
	Recommended clearance: intake .0015"0016",	exnaust .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. RHSTM

Water jackets require flushing prior to cylinder head installation

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Pro ActionTM Small Block Chevy Cylinder Head #12052-02

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® #987-16 (-02)	1.430 dual valve spring set, 95# @ 1.800" max lift .550"	
Retainers*	COMP Cams® #740-16 (-02)	1.400" 10° Super Lock [™] steel retainer set	
Valve Locks*	COMP Cams® #611-16 (-02)	11/32" 10° Super Lock TM valve lock set	
Valve Stem Seals	COMP Cams® #529-16	.530" metal body viton valve stem seals	
Spring Locators*	COMP Cams® #4770-16 (-02)	1.550" valve spring locators	
Guide Plates	COMP Cams® #4808-8	5/16" guide plate set	
Rocker Arm Studs	COMP Cams® #4503-16	7/16" Magnum TM rocker arm stud set	

Suggested Assembly Components

Additional Recommended Components			
Part Type	Brand/Part #	Description	
Spark Plugs	ZEX TM #82003-8	Street/strip: 14mm, .750" reach, 5/8" hex, premium spark plug set	
	ZEX TM #82216-8	Race: Champion C57YC, 14mm, .750" reach, 5/8" hex, spark plug set	
Rocker Arms	COMP Cams® #1301-16	Pro Magnum TM 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 ^{тм} #1707	Intake manifold gasket, 2.09" X 1.28" port, .060" thick	
Exhaust Gaskets	RHS TM #1708	Header gasket, 1.500" X 1.500" port size, graphite	
Head Gaskets	RHS TM #1700	Cylinder head gasket, 4.060" bore X .041" compressed thickness	
	RHS ^{тм} #1701	Cylinder head gasket, 4.165" bore X .041" compressed thickness	
Valve Cover Gaskets	RHS TM #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 <u>must</u> be verified prior to installation



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