Pro ActionTM Big Block Chevy Cylinder Head #11012-02

DESCRIPTION

RHS[™] Pro Action[™] Big Block Chevy cylinder head, hydraulic roller assembly aluminum, 360cc intake runner, 119cc combustion chamber, 2.300" intake/1.880" exhaust valves

Specifications					
	Intake	Exhaust			
Port Volume:	360cc	135cc			
Port Dimension:	1.700" X 2.450"	1.560" X 1.900"			
Port Location:	Stock	raised .500"			
Valve Angle:	24°(stock angle is 26°)	15° (stock angle is 17°)			
Valve Head Diameter:	2.300"	1.880"			
Valve Length:	5.468" (std length + .250")	5.468" (std length +.100")			
Valve Seat Dimensions:	2.380" X 1.900" X .375"	2.006" X 1.900" X .375"			
Valve Seat Angles:	40/45/60/75	40/45/Radius			
Valve Guide Diameter:	11/32"	11/32"			
Valve Guide Dimensions:	.502" O.D. X 2.100"L X .530" boss dia.	.502" O.D. X 2.100"L X .530" boss dia.			
Valve Guide Material:	Premium bronze material for superior heat dissipation and longer life				
Material:	Aluminum				
Chamber Volume:	119cc				
Spark Plug Location:	Optimized for best performance				
Spark Plug Type:	14mm, .750" reach, 5/8" hex, flat gasket style				
Spring Pocket Diameter:	1.625"				
Pushrod Diameter:	3/8" (larger diameter will require clearancing)				
Weight:	38 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 seat 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

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 1.750" 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"			
	Water jackets require flushing prior to cylinder head installation			
Cylinder Head Bolts:	Raised exhaust ports require longer exhaust side head bolts/studs			
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				
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Phone: (877) 776-4323 Fax: (901) 368 1951 Part #11012-02IS				
	www.racingheadservice.com Revised 02/17/09			

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Assembly Components				
Part Type	Brand/Part #	Description		
Intake Valves	COMP Cams® #6021-8	2.300", + .250" long, 11/32" valve stem diameter		
Exhaust Valves	COMP Cams® #6023-8	1.880", + .100" long, 11/32" valve stem diameter		
Valve Springs*	COMP Cams® #924-16 (-02)	1.509" O.D. dual valve springs, 112# @ 1.900", max lift .600"		
Retainers*	COMP Cams® #741-16 (-02)	1.500" 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® #4771-16 (-02)	1.550" valve spring locators		
Guide Plates	COMP Cams® #4806-8	3/8" guide plate set		
Rocker Arm Studs	COMP Cams® #4512-16	7/16" Hi-Tech [™] rocker arm stud set		

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, premium spark plug		
Rocker Arms	COMP Cams® #1320-16	Pro Magnum [™] 1.7 ratio rocker arm set, 7/16" stud diameter		
	COMP Cams® #1120-16	Hi-Tech [™] 1.7 ratio rocker arm set, 7/16" stud diameter		
Intake Gaskets	RHS TM #1710	Intake manifold gasket set, 1.82" X 2.54" port, 060" thick		
Exhaust Gaskets	RHS ^{тм} #1711	Header gasket set, 1.880" X 1.880" port size, graphite		
Head Gaskets	RHS TM #1702	Cylinder head gasket, 4.375" bore X .040" compressed thickness		
	RHS TM #1703	Cylinder head gasket, 4.630" bore X .040" compressed thickness		
Valve Covers	COMP Cams® #230	Sand cast aluminum valve covers w/mounting studs and gaskets		
Valve Cover Gaskets	RHS™ #1712	Valve cover gasket set, silicone impregnated		
Head Bolts**	ARP #135-3703	HP head bolt set, includes correct bolts for raised exhaust ports		
Head Studs**	ARP #235-4303	8740 head stud set, includes correct studs for raised exhaust ports		
Application Notes				

* -02 indicates flat tappet or hydraulic roller application

* -03 indicates solid roller application

** Recommended components only, individual application <u>must</u> be verified prior to installation



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