

Pro ActionTM Big Block Chevy Cylinder Head #11012-03

DESCRIPTION

RHSTM Pro ActionTM Big Block Chevy cylinder head, solid 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

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 1.750" 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 Raised exhaust ports require longer <u>exhaust side</u> head bolts/studs

Cylinder Head Bolts: Raised exhaust ports require longer <u>exhaust side</u> 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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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® #991-16 (-03)	1.625" O.D. dual valve springs, 214# @ 1.950", max lift .750"
Retainers*	COMP Cams® #733-16 (-03)	1.625" Super Lock™ titanium retainer set
Valve Locks*	COMP Cams® #611-16 (-03)	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® #4774-16 (-03)	1.625" 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 TM 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 TM #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 TM #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