

DESCRIPTION

RHSTM Pro ActionTM Small Block Ford cylinder head, bare casting aluminum, 200cc intake runner, 64cc combustion chamber, 2.020'' intake/1.600'' exhaust valves

Specifications					
	Intake	Exhaust			
Port Volume:	200cc	66cc			
Port Dimension:	1.150" X 2.020"	1.300" X 1.325"			
Port Location:	Stock	stock			
Valve Angle:	20°(stock angle)	20°(stock angle)			
Valve Head Diameter:	2.02"	1.600"			
Valve Length:	5.011" (SBC std length + .100")	5.011" (SBC 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 2.100"L X .530" boss dia.	.502" O.D. X 2.100"L X .530" boss dia.			
Valve Guide Spacing:	1.89"				
Valve Guide Material:	Premium bronze material for superior heat dissipation and longer life				
Cylinder Head Material:	Aluminum				
Chamber Volume:	64cc				
Spark Plug Location:	Optimized for best performance				
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:	20 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
- Dual exhaust flange pattern to fit most common header models

	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:	Additional valve spring pocket machining is not recommended		
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		
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.		
Accessory Holes:	Some older applications utilize the AIR Reactor hole in the cylinder as an accessory mount.		
	These applications require a reducer bushing from Ford, part # F4ZZ6E086A,		
	to provide the proper diameter to mount the brackets.		



Pro ActionTM Small Block Ford Cylinder Head #35016

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 TM 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 TM 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® #4816-8	5/16" guide plate set		
Rocker Arm Studs	COMP Cams® #4502-16	3/8" Magnum TM 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	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® #1331-16	Pro Magnum TM 1.6 ratio rocker arm set, 3/8" stud diameter		
Intake Gaskets	RHS TM #1713	Intake manifold gasket, 1.28" X 2.10" port, .060" thick		
Exhaust Gaskets	RHS ^{тм} #1714	Header gasket, 1.420" X 1.620" port size, graphite		
Head Gaskets	RHS™ #1704	Cylinder head gasket, 4.030" bore X .040" compressed thickess		
	RHS TM #1705	Cylinder head gasket, 4.155" bore X .040" compressed thickess		
Valve Cover Gaskets	RHS TM #1715	Valve cover gasket, .120" thick, silicone reinforced		
Head Bolts**	ARP #154-3605	HP head bolt set, 289-302, 5.0 liter		
	ARP #154-3603	HP head bolt set, 351W		
Head Studs**	ARP #154-4005	8740 cylinder head stud set, 289-302, 5.0 liter		
	ARP #154-4003	8740 cylinder head stud set, 351W		
Stud Girdle**	COMP Cams® #4015	Aluminum stud girdle set, 289-302, 5.0 liter, 351W		

Application Notes

* -01 indicates flat tappet application

* -02 indicates hydraulic roller application

** Recommended components only, individual application must be verified prior to installation

*** Due to the difference in deck heights, different guide plates may need to be used, check prior to final assembly*



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