



## 11° Big Chief II CNC Aluminum Cylinder Head

<b>Part#</b>	18500000, 18575070 & 18575179
<b>Material:</b>	355-T61 alum alloy
<b>Comb Chambers:</b>	56cc thru 88cc standard Nitrous = 90cc with Titanium valves
<b>Intake Valve Dia:</b>	2.470" or 2.500" (Must check cam overlap with big valve diameter.)
<b>Intake Port volume:</b>	FP CNC – 518cc
<b>Intake Port Dim:</b>	1.885" x 2.730" w/ 3/4" radius
<b>Int Port Location:</b>	Raised 1.500" Spread ports
<b>Intake Gasket:</b>	Fel-Pro# 1290 (trim to fit) Dart# 65124103
<b>Exh Valve Dia.:</b>	1.840" or 1.850" (Must check cam overlap with big valve diameter.)
<b>Exh Port volume:</b>	185cc
<b>Exhaust Port Dim:</b>	2.020" w x 1.780" h
<b>Exh Port Location:</b>	Angled & Raised .900" Extended flange w/BBC bolt pattern
<b>Exhaust Gasket:</b>	Fel-Pro 1490 or Mr. Gasket 5914
<b>Flow, Intake:</b>	522 cfm @ .900" lift/28"
<b>Flow, Exhaust:</b>	352 cfm @ .900" lift/28"
<b>Lifter:</b>	Use .180" offset lifter
<b>Manifold:</b>	Dart Big Chief Oval 1x4 bbl = 8" tall
<b>Milling:</b>	70cc = .080" 56cc = .145"
<b>Pistons:</b>	Must use pistons for 11° Big Chief head.
<b>Push Rod length:</b>	Should always measure
<b>Retainers:</b>	Titanium 10°
<b>Spark Plug:</b>	.750" reach, gasketed. Autolite AR3932
<b>Spring Cups:</b>	1.625" - .060 cup
<b>Spring Pockets</b>	1.740" OD for 1.625" cup (.030" deeper max)
<b>Springs:</b>	Our Assembly: 1.650T = 338# @ 2.100" / .900" max P.S.I
<b>Valve Angles:</b>	Int - 11° x 6° Exh - 7° x 4°
<b>Valve Length:</b>	Int - 6.600" Exh - 6.450" (For 2.150" installed height)
<b>Valve Stem Dia:</b>	.3415" - 11/32" 5/16" optional
<b>Valve Train:</b>	Jesel or T&D 11° rocker system
<b>Valve Guides:</b>	1/2" OD Mag - bronze Cut for .500" PC seals (.002" press)
<b>Valve Guide length:</b>	2.825" Shortened seal top for high lift cams
<b>Valve Guide clearance:</b>	.0014" - .0021" (with our .3415 dia. valve stem)
<b>Valve Guide Spacing:</b>	Widened for use on min. 4.600" bore
<b>Valve Seats:</b>	Intake – AMPCO 45 Exhaust - Copper-Beryllium, w/ .006"-.007" press
<b>Valve Seat dim</b>	Int - 2.550" x 2.00" x .375" Exh - 2.000" x 1.560" x .375
<b>Valve Seat angles:</b>	Int: 45° - 55° - 65° - 75° - 83° Exh: 45° - 55° - Radius
<b>Studs, head:</b>	Dart kit# 66120015 ARP# 235-4312
<b>Titanium Valves</b>	Must use lash caps
<b>Torque: w/oil</b>	Head Bolts = 70 ft/lb Dart's inner head studs 3/8-7/16 = 50 ft/lb Manifold = 35 ft/lb
<b>Block Use:</b>	Dart Big M, Mark IV, Gen V, and Gen VI with proper head gasket
<b>Weight:</b>	42 lbs ea.