



## Dart 18° Oval 383cc CNC BBC Aluminum Cylinder Head

Part#	16874050 - 16875156
Material:	355-T61 alum alloy
Comb Chambers:	98cc
Intake Valve Dia:	2.350"
Intake Port volume:	383 cc
Intake Port Dim:	2.440"h x 1.800"w
Int Port Location:	Raised .400"
Intake Gasket:	Dart # 65123500 - .060" thick / # 65123600 - .120" thick
Exh Valve Dia.:	1.840"
Exh Port volume:	152cc
Exhaust Port Dim:	1.720"h x 1.975"w
Exh Port Location:	Raised .400" STD bolt pattern
Exhaust Gasket:	Mr. Gasket 5914
Exhaust Bolts:	1" longer than stock (4) ea.
Flow, Intake:	450 cfm @ .800" lift
Flow, Exhaust:	330 cfm @ .800" lift
Head Bolts/studs:	Bolts – ARP# 135-3603 Studs – ARP# 235-4103
Manifold:	Dart File Core 9.800" PN# 41214100 10.200" 41215100 (must use spacers)
Milling:	Min. 86cc / .080" (.005" = 1cc) Flat mill only.
Pistons:	18° BBC aftermarket pistons.
Push Rod length:	Should always measure Stock length Int. = 8.275" / Exh = 9.250"
Rocker Arms:	Special - Jesel Shaft rockers w/1 pc intake stand
Retainers:	Titanium 10°
Spark Plug:	.750" reach, gasketed Autolite AR3932
Spring Cups:	1.625" - .035 cup / 1.550" - ID locator
Spring Pockets	1.740" OD for 1.625" cup (.030" deeper max)
Springs:	Our Assembly: 1.625T = 330# @ 2.100" / .900" max Triple P.S.I
Valve Angles:	Int - 18°, Exh - 9° 4° cant
Valve Length:	Int - 5.575" (+.350) Exh - 5.435" (stock)
Valve Stem Dia:	.3415" - 11/32"
Valve Train:	Shaft Rockers only – Special Jesel
Valve Guides:	1/2" OD Mag - bronze Cut for .500" PC seals (.002" press)
Valve Guide length:	Int - 2.100" Exh - 2.250"
Valve Guide clearance:	.0014" - .0021" (with our .3415 dia. valve stem)
Valve Guide Spacing:	Exh moved .045" away from Int
Valve Seats:	Ductile Iron, .006" press (TIR .004)
Valve Seat dim.	Int. - 2.450" x 2.000" x .375" Exh - 2.000" x 1.600" x .375"
Valve Seat angles:	Int = 32° - 45° - 60° - 70° - 80° Exh = 37° - 45° - radius
Stud Girdle:	Can not use
Torque: w/oil	Head Bolts = 70 ft/lb Dart's inner head studs 3/8-7/16 = 50 ft/lb Manifold = 35 ft/lb
Block Use:	Mark IV, Gen V, and Gen VI with proper head gasket
Weight:	37 lbs