



320, 360 BBC Aluminum Cylinder Head

Part#	16300000 thru 16600000
Material:	355T6 alum alloy
Comb Chambers:	119cc or 139cc (121cc or 141cc w/CNC)
Intake Valve Dia:	2.250" or 2.300"
Intake Port volume:	320 SM-327cc, 320 FP-346cc, 360 sm-366cc, 360 FP-389cc
Intake Port Dim:	1.600" x 2.450" (as cast) - 1.750" x 2.500" (S/M & F/P)
Int Port Location:	Stock
Intake Gasket:	Mr Gasket# 121
Exh Valve Dia.:	1.880" or 1.900"
Exh Port volume:	125cc (as cast), 128cc (S/M), 143cc (F/P), 145cc (hot rod exh)
Exhaust Port Dim:	(As cast & S/M) 1.500" x 1.800" (F/P) 1.600" x 1.900", (hot rod exh) 1.700" x 1.900"
Exh Port Location:	Raised .300" Std bolt pattern
Exhaust Gasket:	Fel-Pro 1412 - Mr Gasket 5914 (F/P)
Exhaust Bolts:	1" longer than stock (4) ea.
Flow, Intake:	Super Mod (320) - 355 cfm (360) - 377 cfm @ .750 lift/28" (our valve = +10/15cfm) Full Port (320) - 389 cfm (360) - 399 cfm @ .750 lift/28"
Flow, Exhaust:	(S/M) 255 cfm (F/P) 280 cfm @.750 lift/28"
Head Bolts/studs:	Bolts – ARP# 135-3603 Studs – ARP# 235-4103
Manifold:	Rect. Port Dart (opening - 1.575"x 2.250") 6.25" tall
Milling:	Min. 105cc / .070" (.005" = 1cc) Flat mill only.
Pistons:	Most aftermarket pistons.
Push Rod length:	Avg. +.200" / +.250" Should always measure Stock length Int. = 8.275" / Exh = 9.250"
Push Rod Guide Plate	Dart BBC Adjustable Guide Plate
Retainers:	Titanium 10°
Spark Plug:	.750" reach, gasketed. Autolite AR3933, Street AR3924 (AR133 for pre-1999)
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: 1.550S = 145# @1.900" / .660" max Comp 936 1.550D = 195# @ 1.900" / .690" max Comp 954 1.625D = 250# @ 2.000" / .790" max Vasco-Jet H-11
Valve Angles:	Int - 24°, Exh - 15° (Rolled 2°) 4° cant
Valve Length:	Int - 5.475" (+.250) Exh - 5.435" (stock)
Valve Stem Dia:	.3415" - 11/32"
Valve Train:	Std BBC 7/16" stud mount
Valve Guides:	1/2" OD Mag - bronze Cut for .530" 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:	Powder metal, .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:	Must use DART design. Part# 64110001
Torque:	Head Bolts = 70 ft/lb Rocker Studs = 45 ft/lb Manifold = 35 ft/lb Dart inner head studs 3/8-7/16 = 50 ft/lb
Block Use:	Mark IV, Gen V, Gen VI with proper head gasket
Weight:	37 lbs