165cc SBF Outlaw Street Head

The Small Port, High Velocity, Emission Legal Torque Monster



Head Torque	65-70 Ft. Lbs. with 7/16" stud
Rocker Stud Torque	55-60 Ft. I bs.
Rocker Pedestal Torque	
The state of the s	
Intake Port Gasket, 1.200" x 2.000" w/ 3/8" radius -	
	Fel-Pro 1250

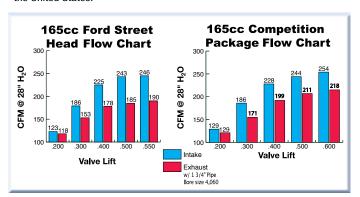
Important: Do not port match your intake manifold to Fel-Pro gasket as it does not precisely fit AFR heads.

Exhaust Port Gasket	Fel-Pro #1415, AFR #6837
Head Gasket	Fel-Pro #1011-1, AFR #6808
Head Bolts & Studs	Standard ARP, AFR #6323 & #6322
Head Bolt Washers	Manley, AFR #6320
Stud Girdle	AFR #6207
Suggested Manifold	RPM Performer, Performer
Spark Plug Starting Range	Autolite 3924
Combustion Chambers	58cc
Spring Pocket can be cut to 1.625, no deep	
Valve Spacing	
Rocker Arms	Standard, will not accept rail rocker arms
Valve Angle	Standard
Angle Mill (10cc Maximum Optional Mill)	
Flat Mill (4cc Maximum Optional Mill)	

Note: Milling Head Deck Will Affect Flow Numbers

Pairs of Cylinder Heads Complete With Parts & Ready To Install			
Runner Volume	Stud or Pedestal	Combustion Chamber	Part #
CNC Street Porting			
*165cc	Stud	58cc	1402
*165cc	Pedestal	58cc	1472
CNC C	Competition Pa	ckage Street P	Porting
165cc	Stud	58cc	1404
Stage 1- Bare Heads No Porting or Parts			
*140cc	Stud	55cc	140
*140cc	Pedestal	55cc	147

^{*}Only models with heat riser (marked by an asterisk) are emissions legal, all others are not legal for sale or use on pollution controlled motor vehicles in the United States



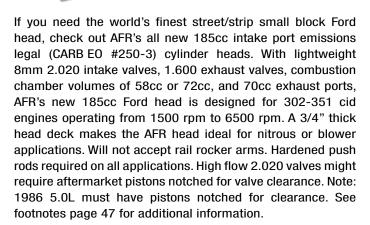
For the ultimate small block Ford street car, you've got to use AFR's all new 165cc emissions legal cylinder heads. Unlike some aftermarket heads, AFR's Ford head (CARB EO #250-3) fits all your stock components; no special parts are required (see footnotes page 47). With lightweight 8mm 1.900 intake valves, 1.600" exhaust valve, and combustion chamber volume of 58cc, and 68cc exhaust ports, AFR's new 165cc Ford head is perfect for 289 and 302 engines operating from idle to 6000 rpm. A 3/4" thick head deck makes the AFR head ideal for nitrous or blower applications. Will not accept rail rocker arms. Hardened push rods required on all applications. Note: 1986 5.0L must have piston notched for clearance.

Note: Hydraulic roller cams typically experience valve float at 6000-6200 rpm because of their fast ramp rates. AFR suggests you upgrade your springs to AFR part #8605, 1.290 0.D. with higher spring pressures to reduce chances of valve float associated with rpm's 6200 or higher.

Basic Package Components	Part #	
100% CNC Ported Combustion Chambers, 100% CNC Ported Exhaust Ports, 100% CNC Ported Intake Ports Competition 3-angle Valve Job.		
Bead Lock Intake Valve, 1.900" stud mount	AFR #7249	
Bead Lock Exhaust Valve, 1.600" stud mount, 58cc	AFR #7250	
Intake Valve, 1.900 Pedestal	AFR #7262	
Exhaust Valve, 1.600 Pedestal	AFR #7264	
1.290" OD Hydraulic Dual Valve Spring, 135 lbs on seat .600" maxiumum lift (upgrades avaiable)	AFR #8017 Comp PKG #8019	
7° Chrome Moly Retainers	AFR #8514	
7º Bead Locks Valve Keepers	AFR #9007	
3/8" Rocker Studs	AFR #6410	
5/16" Guide Plates	AFR #6107	
Viton Valve Seals	AFR #6612	
Hardened Spring Cup	AFR #8042	
Intake Valve Seats	AFR #9059	
Exhaust Valve Seats	AFR #9069	
Bronze Valve Guides	AFR #9051	
Thermactor Air Injector	AFR #6226	

185cc SBF Outlaw Street Head

The Ultimate Bolt-On Emission Legal Street/ Strip Weapon



Note: Hydraulic roller cams typically experience valve float at 6000-6200 rpm because of their fast ramp rates. AFR suggests you upgrade your springs to AFR part #8605, 1.290 O.D. with higher spring pressures to reduce chances of valve float associated with rpm's 6200 or higher. 185cc competition package exhaust port is raised .125.

Basic Package Components	Part #	
100% CNC Ported Combustion Chambers, 100% CNC Ported Exhaust Ports, 100% CNC Ported Intake Ports Competition 3-angle Valve Job.		
Bead Lock Intake Valve, 2.020" stud mount	AFR #7251	
Bead Lock Exhaust Valve, 1.600" stud mount	AFR #7250	
Intake Valve, 2.020 Pedestal	AFR #7263	
Exhaust Valve, 1.600 Pedestal	AFR #7264	
1.290" OD Hydraulic Dual Valve Spring, 135 lbs. on seat, .600" maximum lift (upgrades available)	AFR #8017 Comp PKG #8019	
7° Chrome Moly Retainers	AFR #8514	
7º Bead Locks Valve Keepers	AFR #9007	
3/8" Rocker Studs	AFR #6410	
5/16" Guide Plates	AFR #6107	
Viton Valve Seals	AFR #6612	
Hardened Spring Cup	AFR #8042	
Intake Valve Seats	AFR #9058	
Exhaust Valve Seats	AFR #9069	
Bronze Valve Guides	AFR #9051	
Thermactor Air Injector	AFR #6226	

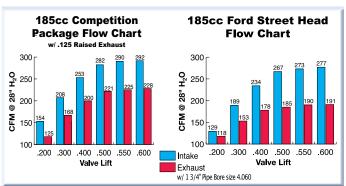
Specifications, Features, and Optional Supporting Components

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Head Torque	
Rocker Stud Torque	55-60 Ft. Lbs.
Rocker Pedestal Torque	25-30 Ft. Lbs.
Intake Port Gasket, 1.250" x 2.050" w/ 3/8" rad	lius AFR #6832 / Fel-Pro #1262
Important: Do not port match your inta	ake manifold to Fel-Pro gasket
as it does not precisely fit AFR heads.	_
Exhaust Port Gasket	
Head Gasket	Fel Pro #1011-1, AFR #6808
Head Bolts & Studs	
Head Bolt Washers	
Head Bolt Bushings, 1/2"-7/16"	Standard ARP, AFR #6324
Stud Girdle	AFR #6207
Suggested Manifold	
Spark Plug Starting Range	Autolite 3924
Combustion Chambers	58cc, 60cc, or 72cc
Spring Pocket can be cut to 1.625, no deeper.	
Valve Spacing	Standard
Rocker Arms Star	ndard, will not accept rail rocker arms
Valve Angle	
Angle Mill (10cc Maximum Optional Mill)	008" per cc
Flat Mill (4cc Maximum Optional Mill)	006" per cc
Note: Milling Hood Dook Will Affect Flow Numbers	·

Note: Milling Head Deck Will Affect Flow Numbers.

Pairs of Cylind	Pairs of Cylinder Heads Complete With Parts & Ready To Install		
Runner Volume	Stud or Pedestal	Combustion Chamber	Part #
	CNC Stre	et Porting	
*185cc	Stud	58cc	1422
*185cc	Pedestal	60cc	1492
*185cc	Stud	72cc	1420
Stage	1- Bare Heads	No Porting or	Parts
*170cc	Stud	55cc	142
*170cc	Pedestal	55cc	149
CI	CNC Ported Competition Package		
185cc	Stud	58cc	1426
185cc	Stud	72cc	1428

^{*}Only models with heat riser (marked by an asterisk) are emissions legal, all others are not legal for sale or use on pollution controlled motor vehicles in the United States.



205cc SBF Outlaw Race Heads

The Most Powerful Standard Street/Strip Head Ever

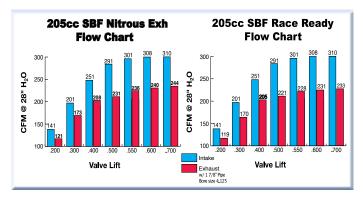
Specifications, Features, and Optional Supporting Components

as it does not precisely iit AFR neads.	
Exhaust Port Gasket	Fel Pro #1487, AFR #6839
Head Gasket	Fel Pro #1011-1, AFR #6808
Head Bolts & Studs	Standard ARP, AFR #6318,6317
Head Bolt Washers	Manley, AFR #6320
Stud Girdle	AFR #6207
Suggested Manifold	Vic Jr., Super Victor
Spark Plug Starting Range	Autolite 3922
Combustion Chambers	58cc or 72cc
Spring Pocket can be cut to 1.625, no deeper.	
Valve Spacing	Standard
Rocker Arms	Standard (will not accept rail rockers)
Valve Angle	Standard
Angle Mill (6cc Maximum Optional Mill)	008" per cc
Flat Mill (3cc Maximum Optional Mill)	006" per cc

Note: Milling Head Deck Will Affect Flow Numbers.

Pairs of Cylinder Heads Complete With Parts & Ready To Install			
Runner Volume	Rocker Type	Combustion Chamber	Part #
E	Race Ready CNC Ported Heads		
205cc	Stud	58cc	1450
205cc	Stud	72cc	1458
Stage 1- Bare Heads No Porting or Parts			
190cc	Stud	55cc	145

205cc Nitrous Exhaust Port			
Runner Volume	Rocker Type	Combustion Chamber	Part #
CNC Street Porting			
205cc	Stud	58cc	1452



If you're looking for the world's finest street/strip head available, AFR's 205 head is your answer. With lightweight 8mm 2.080 intake valves, 1.600 exhaust valves this head moves tremendous volumes of air through conservative runner volumes, spelling big torque and horsepower numbers. With combustion chamber volumes of 58cc or 72cc accompanied by 70cc exhaust parts which are raised .125 higher than stock, AFR's new 205cc is the ultimate choice for 331 through 392 engines operating from 3500 RPM to 8000 RPM. AFR's trademark 3/4" thick head deck makes them ideal for heavy nitrous or blower applications. With available optional nitrous or blower exhaust ports featuring 73cc ultra high flowing exhaust ports.

Note: 2.080 valves will require aftermarket pistons notched for valve clearance. See footnotes page 47 for additional information.

Basic Package Components	Part #	
100% CNC Ported Combustion Chambers, 100% CNC Ported Exhaust Ports, 100% CNC Ported Intake Ports Competition 3-angle Valve Job.		
Bead Lock Intake Valve, 2.080" x 100L	AFR #7261	
Bead Lock Exhaust Valve, 1.600" x 100L	AFR #7254	
1.550" OD Roller Dual Valve Spring 225 lbs. on seat, .710" maximum lift	AFR #8000	
10° 4140 Chrome Moly Steel Retainers	AFR #8511	
10° Bead Locks Valve Keepers	AFR #9009	
7/16" Rocker Studs	AFR #6405	
5/16" Guide Plates	AFR #6107	
Viton Valve Seals	AFR #6612	
Hardened Spring Cup	AFR #8045	
Intake Valve Seats	AFR #9058	
Exhaust Valve Seats	AFR #9069	
Bronze Valve Guides	AFR #9051	

225cc SBF Outlaw Race Heads



Are you looking for big torque and horsepower numbers? Only AFR's 225cc will provide you with exactly that. With the largest intake and exhaust runner volumes for our in-line Ford line up, these are the ultimate for NMRA Renegade or Hot Street classes. With lightweight 8mm 2.080 intake valves and 1.600 exhaust valves these heads move massive amounts of air. Combustion chamber volumes of 58cc or 72cc accompanied by 80cc exhaust ports which are raised .375 higher than stock. AFR's new 225cc is the perfect choice for 347 through 427 Cl Windsor engines operating between 4500 to 8500 rpm. Our trademark 3/4" thick head deck makes them ideal for heavy nitrous or blower applications.

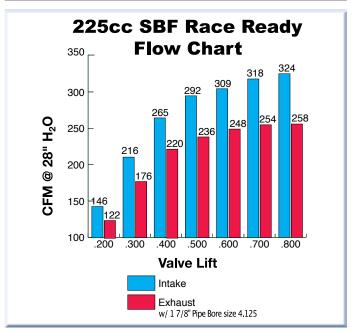
Note: 2.080 valves will require aftermarket pistons notched for valve clearance. See footnotes page 47 for additional information.

Basic Package Components	Part #	
100% CNC Ported Combustion Chambers 100% CNC Ported Exhaust Ports 100% CNC Ported Intake Ports Competition 3-angle Valve Job		
Bead Lock Intake Valve, 2.080" x 100L	AFR #7261	
Bead Lock Exhaust Valve, 1.600" x 100L	AFR #7254	
1.550" OD Roller Dual Valve Spring 225 lbs. on seat, .710" maximum lift	AFR #8000	
10° 4140 Chrome Moly Steel Retainers	AFR #8511	
10° Bead Locks Valve Keepers	AFR #9009	
7/16" Rocker Studs	AFR #6405	
5/16" Guide Plates	AFR #6107	
Viton Valve Seals	AFR #6612	
Hardened Spring Seat	AFR #8045	
Intake Valve Seats	AFR #9058	
Exhaust Valve Seats	AFR #9069	
Bronze Valve Guides	AFR #9051	

Specifications, Features, and Optional Supporting Components

Head Torque	100 Ft. Lbs. with 1/2" stud
Rocker Stud Torque	55-60 Ft. Lbs.
Intake Port Gasket, 1.400" x 2.250" w/ 3/8" ra	dius AFR #6812 or Fel-Pro 1262R
Important: Do not port match your int	
as it does not precisely fit AFR heads.	
Exhaust Port Gasket	
Head Gasket	
Head Bolts & Studs	
Head Bolt Washers	
Stud Girdle	
Suggested Manifold	
Spark Plug Starting Range	Autolite 3922
Combustion Chambers	58cc or 72cc
Spring Pocket can be cut to 1.580, no deeper.	
Valve Spacing	Standard
Rocker Arms	Standard (will not accept rail rockers)
Valve Angle	
Angle Mill (6cc Maximum Optional Mill)	008" per cc
Flat Mill (3cc Maximum Optional Mill)	•
Note: Milling Head Deck Will Affect Flow Number	•
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Pairs of Cylinder Heads Complete With Parts & Ready To Install			
Runner Volume	Rocker Type	Combustion Chamber	Part #
Race Ready CNC Ported Heads			
225cc	Stud	58cc	1451
225cc	Stud	72cc	1456
Stage 1 Bare Heads, No Porting or Parts			
210cc	Stud	53cc	146



165cc & 185cc SBF Street/Strip Outlaw Heads

No Heat Riser Or Air Pump Holes For The Maximum Street/Strip Performance



Exhaust Port GasketFel Pro #1415, AFR #6837
Head Gasket Fel Pro #1011-1, AFR #6808
Head Bolts & Studs Standard ARP, AFR #6323 & #6322
Head Bolt Washers Manley, AFR #6320
Head Bolt Bushings, 1/2"-7/16" Standard ARP, AFR #6324
Stud Girdle AFR #6207
Suggested ManifoldRPM Performer, Vic Jr.
Spark Plug Starting RangeAutolite 3924
Combustion Chambers 58cc or 72cc
Spring Pocket can be cut to 1.625, no deeper.
Valve Spacing Standard
Rocker Arms Standard, will not accept rail rocker arms
Valve Angle Standard
Angle Mill (10cc Maximum Optional Mill)008" per cc
Flat Mill (4cc Maximum Optional Mill)
Note: Milling Head Deck Will Affect Flow Numbers.

Pairs of Cylinder Heads Complete With Parts & Ready To Install				
Runner Volume	Rocker Type	Combustion Chamber	Part #	
185cc Street CNC Ported Heads				
185cc	Stud	58cc	1388	
185cc	Stud	72cc	1387	
CNC Ported Competition Package				
185cc	Stud	58cc	1381	
185cc	Stud	72cc	1383	
165cc Street CNC Ported Heads				
165cc	Stud	58cc	1399	

165cc & 185cc Nitrous Exhaust Port			
Runner Volume	Rocker Type	Combustion Chamber	Part #
Options			
185cc	Stud	58cc	1389
165cc	Stud	58cc	1396

These heads come ready for the maximum street/strip Small Block Ford performance possible. They are not emissions legal. With the 165 coming with lightweight 8mm 1.900 intake and 1.600 exhaust valves and the 185 sporting 8mm 2.020 intake and 1.600 exhaust valves. Our 165cc features 58cc combustion chambers while the 185cc gives both 58cc and 68cc options with 70cc exhaust ports. Both the 165cc and 185cc have available as an option nitrous or blower exhaust ports featuring a 70cc ultra high flowing exhaust port. With AFR's trademark 3/4" thick head deck, it's no problem handling that additional cylinder pressure. Each head is also drilled for the larger 1/2" head bolt hole for maximum head gasket retention as a standard feature of this serious race piece in street disguise.

Note: Hydraulic roller cams typically experience valve float at 6000-6200 rpm because of their fast ramp rates. AFR suggests you upgrade your springs to AFR part #8605, 1.290 0.D. with higher spring pressures to reduce chances of valve float associated with rpm's 6200 or higher. 185cc competition package exhaust port is raised .125. See footnotes on page 47 for additional information.

Basic Package Components	Part #	
100% CNC Ported Combustion Chambers 100% CNC Ported Exhaust Ports 100% CNC Ported Intake Ports Competition 3-angle Valve Job		
Bead Lock Intake Valve, 1.900 stud mount	AFR #7249	
Bead Lock Intake Valve, 2.020" stud mount	AFR #7251	
Exhaust Valve, 1.600" stud mount	AFR #7250	
1.290" OD Hydraulic Dual Valve Spring, 135 lbs. on seat, .600" maximum lift (upgrades available)	AFR #8017 Comp PKG APR #8019	
7° Chrome Moly Retainers	AFR #8514	
7° Bead Locks Valve Keepers	AFR #9007	
3/8" Rocker Studs	AFR #6410	
5/16" Guide Plates	AFR #6107	
Viton Valve Seals	AFR #6612	
Hardened Spring Cup	AFR #8042	
Intake Valve Seats 165cc	AFR#9059	
Intake Valve Seats 185cc	AFR #9058	
Exhaust Valve Seats	AFR #9069	
Bronze Valve Guides	AFR #9051	

