2007 CATALOG

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HONDA CIVIC Si / ACURA INTEGRA

b16a/b18c/b17a

CAMSHAFTS

Cold Valve Lash: .006" int / .008" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Forced Induction Specification** Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0010.	**BC0011**	290°/292°	232°/234°	.465"/.450"	11.81/11.43	**BC0010**	12 BTDC	5 ATDC
			280°/284°	202°/200°	.322"/.307"	8.18/7.80	or		
		108°	260°/262°	178°/180°	.206"/.190"	5.23/4.82	**BC0010S**	40 ABDC	49 BBDC
STAGE 2	**Normally Aspirated Specification** Hot street/strip or road race spec. Use with CAI, H, E, ECU, A/F mods. Excellent street manners and idle quality. Requires kit BC0010.	**BC0012**	306°/300°	254°/248°	.472"/.472"	11.99/11.99	**BC0010**	29 BTDC	18 ATDC
			236°/232°	216°/214°	.364"/.351"	9.25/8.92	or		
		102°	228°/226°	194°/192°	.264"/.252"	6.70/6.40	**BC0010S**	45 ABDC	50 BBDC
STAGE 3	**Normally Aspirated Specification** Intended for fully built engine. Extensive modifications, high compression pistons and tuning recommended. Requires kit BC0010.	**BC0013**	310°/308°	260°/254°	.496"/.496"	12.60/12.60	**BC0010**	32 BTDC	21 ATDC
			256°/256°	220°/220°	.443"/.443"	11.25/11.25	or		
		102°	256°/256°	220°/220°	.428"/.428"	10.87/10.87	**BC0010S**	48 ABDC	53 BBDC
	USDM B16A2 ('99-'00)	Stock	280°/276°	219°/214°	.417"/.373"	10.59/9.47			
	USDM B18C1 ('94-'00)	Stock	290°/278°	230°/216°	.423"/.380"	10.74/9.65			
	JDM B16A (Type R)	Stock	294°/286°	233°/224°	.449"/.417"	11.40/10.59			

Rocker Ratio: 1.55:1 mid, 1.5:1 sec, 1.45:1 pri

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC retainers are CNC machined from 6AL4V round bar titanium or steel alloy for longevity.

KIT #	SPRING #	RETAINER #		DESCRIPTION
BC0010	BC1010	BC2010	Ltd Street/Race	Dual spring, titanium retainer
BC0010S	BC1010	BC2011	High Mileage	Dual spring, steel alloy retainer

Spring Pressure:

BC1010 Seat: 1.350" @ 80 lbs / Open: 0.900" @ 220 lbs / Coil Bind: 0.765" (no machine work required)

Mandatory to check valve guide to retainer clearance prior to operation.

For high mileage, daily driver applications (15,000+ miles annually), BC highly recommends the steel retainer for added longevity.

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Hardened tips for greater longevity. Standard and oversize head design available.

PART #	DESCRIPTION
BC3010	33.0mm Intake (standard head diameter)
BC3011	28.0mm Exhaust (standard head diameter)
BC3012	33.5mm Intake (+.5mm head diameter)
BC3013	28.5mm Exhaust (+.5mm head diameter)
BC3014	34.0mm Intake (+1mm head diameter)
BC3015	29.0mm Exhuast (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size.

STROKER KITS

The B Series stroker kit from Brian Crower features:

- BC 4340 forged steel crankshaft (84.5mm B16A, 92 or 95mm B18C), 35 lbs.
- Choice of 4340 steel connecting rods w/ARP fasteners for proven reliability.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins for ultimate strength and minimal flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- ACL Race Series rod, main and thrust bearings included (**BC4020**).
- Fully system balanced and ready to install.
- 50% deposit required to get started.

KIT #	CRANK #	ROD #	PISTON #	BEARING #	DESCRIPTION
BC0018	BC5018	BC6028	BC7018	BC4020	84.5mm w/BC625+
BC0019	BC5018	BC6018	BC7018	BC4020	84.5mm w/bROD
BC0026	BC5020	BC6048	BC7029	BC4020	92mm w/Long Rod
BC0027	BC5019	BC6048	BC7029	BC4020	95mm w/Long Rod
BC0028	BC5019	BC6029	BC7029	BC4020	95mm w/BC625+
BC0029	BC5019	BC6019	BC7029	BC4020	95mm w/bROD

For LightWeight crank (27 lbs), specify "LW" after stroker kit part number (ex. BC0018LW).

Stock Specifications:

B16A 81mm Bore x 77.4mm Stroke - 7.995" Block Height

B18C 81mm Bore x 87.2mm Stroke - 8.350" Block Height

BC Stroker Specifications:

1.87L 84mm Bore x 84.5mm Stroke (choice of bore and compression from 8.5 - 14:1)

2.10L 84mm Bore x 95mm Stroke (choice of bore and compression from 8.5 - 14:1)

PART #	DESCRIPTION
BC8000	M.I.D. - B16A - 84mm to 85mm Bore
BC8002	M.I.D. - B16A - Drag Kit - 86mm to 87mm Max Bore
BC8001	M.I.D. - B18 Series - 84mm to 85mm Bore
BC8003	M.I.D. - B18 Series - Drag Kit - 86mm to 87mm Max

Sleeves come in sets of four. MID = Modular Integrated Deck

ACURA INTEGRA / HONDA CR-V

b18a/b18b/b20b

CAMSHAFTS

Cold Valve Lash: .008" int / .010" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Forced Induction Specification** Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0020.	**BC0021**	280°/280°	204°/204°	.470"/.470"	11.94/11.94	**BC0020**	-1 ATDC	-9 BTDC
		107°						25 ABDC	33 BBDC
STAGE 2	**Normally Aspirated Specification** Hot street/strip or road race profile. Use with CAI, H, E, A/F modifications for optimum horsepower and torque. Requires kit BC0020.	**BC0022**	300°/300°	222°/220°	.423"/.413"	10.74/10.49	**BC0020**	7 BTDC	-2 BTDC
		108°						35 ABDC	42 BBDC
	USDM B18A1 ('90-'93)	Stock	270°/276°	186°/190°	.392"/.380"	9.95/9.65			
	USDM B18B1 ('92-'00)	Stock	274°/278°	183°/184°	.393"/.380"	9.98/9.65			
	USDM B20B ('97-'98)	Stock	278°/276°	190°/194°	.397"/.382"	10.08/9.70			

Rocker Ratio: 1.75:1

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0020	BC1020	BC2020	Dual spring, titanium retainer

Spring Pressure:

BC1020 Seat: 1.400" @ 70 lbs / Open: 0.905" @ 210 lbs / Coil Bind: 0.815" (no machine work required)

Factory installed height = Intake 1.320" / Exhaust: 1.425", BC spring inst at 1.400" on intake and exhaust.

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Hardened tips for greater longevity. Standard and oversize head design available.

PART #	DESCRIPTION
BC3020	31.0mm Intake (standard head diameter)
BC3021	28.0mm Exhaust (standard head diameter)
BC3022	31.5mm Intake (+.5mm head diameter)
BC3023	28.5mm Exhaust (+.5mm head diameter)

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size.

STROKER KITS

The B Series stroker kit from Brian Crower features:

- BC 4340 forged steel crankshaft (92 or 95mm stroke), 35 lbs.
- Choice of 4340 steel connecting rods w/ARP fasteners for proven reliability.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins for ultimate strength and minimal flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- ACL Race Series rod, main and thrust bearings included (**BC4020**).
- Fully system balanced and ready to install.
- 50% deposit required to get started.

Rather than piece together your bottom end with a variety of mismatched parts, order a BC stroker kit that not only increases your overall displacement for more horsepower and torque, but also delivers strength and reliability using only the highest quality parts. Lightweight crank available (7 lbs less).

KIT #	CRANK #	ROD #	PISTON #	BEARING #	DESCRIPTION
BC0026	BC5020	BC6048	BC7029	BC4020	92mm w/Long Rod
BC0027	BC5019	BC6048	BC7029	BC4020	95mm w/Long Rod
BC0028	BC5019	BC6029	BC7029	BC4020	95mm w/BC625+
BC0029	BC5019	BC6019	BC7029	BC4020	95mm w/bROD

For LightWeight crank (27 lbs), specify "LW" after stroker kit part number (ex. BC0018LW).

Stock Specifications:

B18A/B 81mm Bore x 89mm Stroke - 8.350" Block Height

B20B/Z 84mm Bore x 89mm Stroke - 8.350" Block Height

BC Stroker Specifications:

2.16L 85mm Bore x 95mm Stroke (choice of bore and compression from 8.5 - 14:1)

2.04L 84mm Bore x 92mm Stroke (choice of bore and compression from 8.5 - 14:1)

Crankshafts, connecting rods and pistons with all hardware are sold separately.

PART #	DESCRIPTION
BC8001	M.I.D. - B18 Series - 84mm to 85mm Bore
BC8003	M.I.D. - B18 Series - Drag Kit - 86mm to 87mm Max

Sleeves come in sets of four. MID = Modular Integrated Deck

See Price List for complete shelf listings

HONDA PRELUDE

h22/h22a

CAMSHAFTS

Cold Valve Lash: .006" int / .008" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
STAGE 2	**Forced Induction Specification** Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0030.	**BC0031** 110°	304°/306° 214°/216° 210°/216°	233°/235° 184°/192° 176°/184°	.464"/.448" .324"/.312" .262"/.247"	11.78/11.38 8.23/7.92 6.65/6.27	**BC0030** or **BC0030S**	10.5 BTDC / 3.5 ATDC; 42.5 ABDC / 51.5 BBDC
STAGE 2	**Normally Aspirated Specification** Hot street/strip or road race specification. Use with CAI, H, E, ECU, A/F mods. Excellent street manners. Requires kit BC0030.	**BC0032** 103°	312°/310° 220°/220° 216°/218°	255°/248° 200°/198° 198°/196°	.470"/.469" .325"/.308" .280"/.264"	11.94/11.91 8.25/7.82 7.11/6.70	**BC0030** or **BC0030S**	28.5 BTDC / 17 ATDC; 46.5 ABDC / 51 BBDC
STAGE 3	**Normally Aspirated Specification** Intended for fully built engine. Extensive modifications and tuning capabilities are highly recommended. Requires kit BC0030.	**BC0033** 102°	318°/316° 228°/226° 224°/224°	263°/255° 216°/212° 198°/194°	.470"/.470" .360"/.354" .268"/.256"	11.94/11.94 9.14/8.99 6.80/6.50	**BC0030** or **BC0030S**	33.5 BTDC / 21.5 ATDC; 49.5 ABDC / 53.5 BBDC
	USDM H22A1 ('94-'96)	Stock	288°/308°	231°/234°	.448"/.415"	11.38/10.54		
	JDM H22 ('92-'96)	Stock	296°/300°	232°/228°	.456"/.420"	11.58/10.67		
	JDM H22A (Type S)	Stock	306°/310°	230°/230°	.469"/.438"	11.91/11.12		

Rocker Ratio: 1.55:1 mid, 1.5:1 sec, 1.45:1 pri

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC retainers are CNC machined from 6AL4V round bar titanium or steel alloy for longevity.

KIT #	SPRING #	RETAINER #		DESCRIPTION
BC0030	BC1030	BC2010	Ltd Street/Race	Dual spring, titanium retainer
BC0030S	BC1030	BC2011	High Mileage	Dual spring, steel alloy retainer

Spring Pressure:
BC1030 Seat: 1.460" @ 88 lbs / Open: 0.950" @ 220 lbs / Coil Bind: 0.790" (no machine work required)
For high mileage, daily driver applications (15,000+ miles annually), BC highly recommends the steel retainer for added longevity.

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Hardened tips for greater longevity. Standard and oversize head design available.

PART #	DESCRIPTION
BC3030	35.0mm Intake (standard head diameter)
BC3031	30.0mm Exhaust (standard head diameter)
BC3034	36.0mm Intake (+1mm head diameter)
BC3035	31.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.

STROKER KITS

The H22 stroker kit from Brian Crower features:
- BC 4340 billet steel crankshaft (100mm stroke in 50 or 55mm main).
- Choice of 4340 steel connecting rods w/ARP fasteners for proven reliability.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins for ultimate strength and minimal flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- 50% deposit required to get started.
- ACL Race Series bearings sold separately (**BC4030** - 50mm / **BC4035** - 55mm main)

Turn your big block Honda into a 2.49L monster with a BC stroker kit. Big gains in horsepower and torque without sacrificing high rpm potential. Custom CP pistons are made to order so this kit is designed for turbo, supercharger and or nitrous (low compression) as well as all motor (14:1+)...depending on your particular requirements.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0036	BC5039	BC6038	BC7039	50mm w/BC625+
BC0037	BC5039	BC6039	BC7039	50mm w/bROD
BC0038	BC5035	BC6038	BC7039	55mm w/BC625+
BC0039	BC5035	BC6039	BC7039	55mm w/bROD

Stock Specifications:
H22A 87mm Bore x 90.7mm Stroke - 8.655" Block Height / 50mm (93-96) / 55mm (97-01)
BC Stroker Specifications:
2.49L 89mm Bore x 100mm Stroke (choice of bore and compression from 9:1 - 14:1)

PART #	DESCRIPTION
BC8004	M.I.D. - H22 Series - 87mm to 90mm Max Bore

Sleeves come in sets of four. MID = Modular Integrated Deck

See Price List for complete shelf listings

HONDA CIVIC Si / ACURA RSX-S, TSX

k20a/k20z

CAMSHAFTS

Cold Valve Lash: .010" int / .012" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
STAGE 2	**Forced Induction Specification** Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0040.	**BC0041**	296°/300° 248°/248° 245°/245°	222°/224° 182°/182° 182°/182°	.520"/.497" .367"/.367" .325"/.325"	13.21/12.62 9.32/9.32 8.25/8.25	**BC0040** **BC0040X** **BC0040S** **BC0040SX**	- BTDC / - ATDC; - ABDC / - BBDC
STAGE 2	**Normally Aspirated Specification** Hot street/strip or road race spec. Use with CAI, H, E, ECU, A/F mods. Excellent street manners and idle quality. Requires kit BC0040.	**BC0042**	304°/300° 252°/252° 246°/246°	234°/228° 186°/186° 178°/178°	.525"/.472" .357"/.357" .313"/.313"	13.34/11.99 9.07/9.07 7.95/7.95	**BC0040** **BC0040X** **BC0040S** **BC0040SX**	- BTDC / - ATDC; - ABDC / - BBDC
STAGE 3	**Normally Aspirated Race Spec** Intended for fully built engine. Extensive modifications, high compression pistons. Also works on K24 all motor. Req kit BC0040.	**BC0043**	314°/310° 256°/256° 250°/250°	244°/240° 190°/190° 184°/184°	.525"/.518" .369"/.369" .323"/.323"	13.34/13.15 9.37/9.37 8.20/8.20	**BC0040** **BC0040X** **BC0040S** **BC0040SX**	- BTDC / - ATDC; - ABDC / - BBDC
	USDM K20A2 (RSX-S)	Stock	302°/305°	219°/215°	.483"/.431"	12.27/10.95		
	USDM K24A2 (TSX)	Stock	310°/302°	210°/212°	.451"/.453"	11.45/11.50		
	JDM K20A (DC5)	Stock	320°/318°	224°/219°	.483"/.424"	12.27/10.77		

Rocker Ratio: 1.75:1 mid, 1.7:1 sec, 1.7:1 pri.

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC retainers are CNC machined from 6AL4V round bar titanium or steel alloy for longevity.

KIT #	SPRING #	RETAINER #	SEAT #	DESCRIPTION
BC0040	BC1040	BC2010	BC2904	Dual spring, seat, titanium ret
BC0040S	BC1040	BC2011	BC2904	Dual spring, seat, steel retainer
BC0040X	BC1040	BC2010	No Seat	Dual spring, titanium retainer
BC0040SX	BC1040	BC2011	No Seat	Dual spring, steel retainer

Spring Pressure:
BC1040 Seat: 1.590" @ 80 lbs / Open: 1.110" @ 250 lbs / Coil Bind: 1.030" (no machine work required)
For high mileage, daily driver applications (15,000+ miles annually), BC highly recommends the steel retainer for added longevity.

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Hardened tips for greater longevity. Standard and oversize head design available.

PART #	DESCRIPTION
BC3040	35.0mm Intake (standard head diameter)
BC3041	30.0mm Exhaust (standard head diameter)
BC3042	35.5mm Intake (+.5mm head diameter)
BC3043	30.5mm Exhaust (+.5mm head diameter)
BC3044	36.0mm Intake (+1mm head diameter)
BC3045	31.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.
Note: Keeper groove angles have changed, 05-up may require keeper number **BC2940**

STROKER KITS

The K Series stroker kit from Brian Crower features:
- BC 4340 billet steel crankshaft (92mm K20, 102mm K24 stroke).
- Premium 4340 steel billet, custom connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins for added longevity and reduced flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- High strength ACL copper-lead rod and main bearings included (**BC4020**).
- Fully system balanced and ready to install.

The BC stroker kit for the Honda/Acura K Series engine platform incorporates the wider B16A bearing (.935" width) that offers more surface area than the .740" width bearing found in the OEM K Series crank and rod combination. The added surface area increases bearing life, especially at extended rpm.
Note: This kit requires custom connecting rods (modified BE bore and BE width).

KIT #	CRANK #	ROD #	PISTON #	BEARING #	DESCRIPTION
BC0044	BC5048	BC6058	BC7048	BC4020	92mm w/LW Rods
BC0045	BC5048	BC6048	BC7048	BC4020	92mm w/HD Rods
BC0048	BC5049	BC6059	BC7049	BC4020	102mm w/LW Rods
BC0049	BC5049	BC6049	BC7049	BC4020	102mm w/HD Rods

Stock Specifications:
K20A/Z 86mm Bore x 86mm Stroke - 8.350" Block Height
K24A 87mm Bore x 99mm Stroke - 9.114" Block Height
BC Stroker Specifications:
2.35L K20A/Z = 90mm Bore x 92mm Stroke (choice of bore and compression from 9:1 - 14:1)
2.60L K24A = 90mm Bore x 102mm Stroke (choice of bore and compression from 9:1 - 14:1)

PART #	DESCRIPTION
BC8005	M.I.D. - K20 Series - 87mm to 90mm Max Bore
BC8006	M.I.D. - K24 Series - 87mm to 90mm Max Bore

Sleeves come in sets of four. MID = Modular Integrated Deck

See Price List for complete shelf listings

HONDA CIVIC Si, ACCORD / ACURA RSX

k20a3/k24a

CAMSHAFTS

Cold Valve Lash: .010" int / .012" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**N/A Street & Forced Induction** Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0050.	**BC0051**	284°/284°	193°/193°	.410"/.410"	10.41/10.41	**BC0050** or **BC0040** **BC0040S**	- BTDC - ABDC	- ATDC - BBDC
STAGE 2	**Normally Aspirated Race Spec** Hot street/strip or road race specification. Use with CAI, H, E, ECU, A/F mods. Excellent street manners. Requires kit BC0050.	**BC0052**	296°/284°	206°/193°	.429"/.410"	10.89/10.41	**BC0050** or **BC0040** **BC0040S**	- BTDC - ABDC	- ATDC - BBDC
	USDM K20A3 (Base RSX/Civic)	Stock	270°/276°	181°/173°	.372"/.383"	9.45/9.73			
	USDM K24A (Accord/CR-V)	Stock	270°/276°	181°/173°	.372"/.383"	9.45/9.73			

Rocker Ratio: 1.75:1 mid, 1.7:1 sec, 1.7:1 pri

No valve timing events due to variable intake cam.

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC retainers are CNC machined from 6AL4V round bar titanium or steel alloy for longevity.

KIT #	SPRING #	RETAINER #	SEAT #	DESCRIPTION
BC0050	BC1050	BC2050		Single spring, titanium retainer
BC0040	BC1040	BC2010	BC2904	Dual spring, seat, titanium ret
BC0040S	BC1040	BC2011	BC2904	Dual spring, seat, steel retainer

Spring Pressure:

BC1050 Seat: 1.567" @ 78 lbs / Open: 1.100" @ 206 lbs / Coil Bind: 0.972" (no machine work required)

BC1040 Seat: 1.580" @ 84 lbs / Open: 1.100" @ 250 lbs / Coil Bind: 1.030" (no machine work required)

For high mileage, daily driver applications (15,000+ miles annually), BC highly recommends the steel retainer for added longevity.

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Hardened tips for greater longevity. Standard and oversize head design available.

PART #	DESCRIPTION
BC3040	35.0mm Intake (standard head diameter)
BC3041	30.0mm Exhaust (standard head diameter)
BC3042	35.5mm Intake (+.5mm head diameter)
BC3043	30.5mm Exhaust (+.5mm head diameter)
BC3044	36.0mm Intake (+1mm head diameter)
BC3045	31.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering. K20A2, K20A3, K24A1 use same valves.

Valve guides vary and may require honing to size.

Note: Keeper groove angles have changed, 05-up may require keeper number **BC2940**

STROKER KITS

The K Series stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (92mm K20, 102mm K24 stroke).
- Premium 4340 steel billet, custom connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins for added longevity and reduced flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- High strength ACL copper-lead rod and main bearings included (**BC4020**).
- Fully system balanced and ready to install.

The BC stroker kit for the Honda/Acura K Series engine platform incorporates the wider B16A bearing (.935" width) that offers more surface area than the .740" width bearing found in the OEM K Series crank and rod combination. The added surface area increases bearing life, especially at extended rpm.

Note: This kit requires custom connecting rods (modified BE bore and BE width).

KIT #	CRANK #	ROD #	PISTON #	BEARING #	DESCRIPTION
BC0044	BC5048	BC6058	BC7048	BC4020	92mm w/LW Rods
BC0045	BC5048	BC6048	BC7048	BC4020	92mm w/HD Rods
BC0048	BC5049	BC6059	BC7049	BC4020	102mm w/LW Rods
BC0049	BC5049	BC6049	BC7049	BC4020	102mm w/HD Rods

Stock Specifications:

K20A/Z 86mm Bore x 86mm Stroke - 8.350" Block Height

K24A 87mm Bore x 99mm Stroke - 9.114" Block Height

BC Stroker Specifications:

2.35L K20A/Z = 90mm Bore x 92mm Stroke (choice of bore and compression from 9:1 - 14:1)

2.60L K24A = 90mm Bore x 102mm Stroke (choice of bore and compression from 9:1 - 14:1)

DAYTON SLEEVES

PART #	DESCRIPTION
BC8005	M.I.D. - K20 Series - 87mm to 90mm Max Bore
BC8006	M.I.D. - K24 Series - 87mm to 90mm Max Bore

Sleeves come in sets of four. MID = Modular Integrated Deck

MANLEY SP ARP

See Price List for complete shelf listings

HONDA s2000

f20c/f22c

CAMSHAFTS

Cold Valve Lash: .008" int / .010" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Forced Induction / All Motor Street** Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. OEM spring OK.	**BC0061**	310°/308° 250°/242° 238°/234°	232°/228° 176°/174° 170°/168°	.512"/.492" .335"/.335" .313"/.318"	13.00/12.50 8.50/8.50 7.95/8.08	**BC0040** or **BC0040S**	- BTDC - ABDC	- ATDC - BBDC
STAGE 3	**Normally Aspirated Specification** Intended for fully built engine. Extensive mods, ECU tuning and high compression pistons are recommended. Requires kit BC0040.	**BC0062**	314°/310° 256°/256° 250°/250°	244°/240° 190°/190° 184°/184°	.525"/.518" .369"/.369" .323"/.323"	13.34/13.15 9.37/9.37 8.20/8.20	**BC0040** or **BC0040S**	- BTDC - ABDC	- ATDC - BBDC
	USDM F20C (s2000 '00-'03)	Stock	300°/298°	226°/222°	.476"/.439"	12.10/11.14			
	USDM F22C (s2000 '04-up)	Stock	296°/296°	224°/222°	.466"/.454"	11.84/11.53			

Rocker Ratio: 1.72:1 mid, 1.7:1 sec, 1.7:1 pri

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC retainers are CNC machined from 6AL4V round bar titanium or steel alloy for longevity.

KIT #	SPRING #	RETAINER #	SEAT #	DESCRIPTION
BC0040	BC1040	BC2010	BC2904	Dual spring, seat, titanium ret
BC0040S	BC1040	BC2011	BC2904	Dual spring, seat, steel retainer

Spring Pressure:

BC1040 Seat: 1.580" @ 84 lbs / Open: 1.100" @ 250 lbs / Coil Bind: 1.030" (no machine work required).

For high mileage, daily driver applications (15,000+ miles annually), BC highly recommends the steel retainer for added longevity.

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Hardened tips for greater longevity. Standard and oversize head design available.

PART #	DESCRIPTION
BC3060	36.0mm Intake (standard head diameter)
BC3061	31.0mm Exhaust (standard head diameter)
BC3064	37.0mm Intake (+1mm head diameter)
BC3065	32.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size.

STROKER KITS

The F Series (s2000) stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (97mm stroke).
- BC 4340 steel billet BC625+ connecting rods w/ARP Custom Age 625+ bolts.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins for added longevity and reduced flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- ACL Race Series bearings sold separately (**BC4060** - F20C and F22C)

The BC stroker kit for the Honda F Series engine platform incorporates a 97mm stroke that fits both the early model F20C as well as the late model F22C. Depending on bore size that you decide, the BC kit will take you up to a 2.47L with 90mm bore. As usual, each BC kit features custom CP aluminum forged pistons, high strength alloy wrist pins, ring pack and locks. Available in any desired bore and compression ratio for use in F.I. or NA.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0068	BC5069	BC6068	BC7069	97mm stroke

Stock Specifications:

F20C 87mm Bore x 84mm Stroke - 8.815" Block Height

F22C 87mm Bore x 90.7mm Stroke - 8.815" Block Height

BC Stroker Specifications:

2.47L 90mm Bore x 97mm Stroke (choice of bore and compression from 9:1 - 13.5:1)

Crankshafts, connecting rods and pistons with all hardware are sold separately.

MANLEY SP ARP

See Price List for complete shelf listings

ADJUSTABLE CAM GEARS

BC adjustable cam gears feature anodized, 6061 T6 aluminum hubs, CNC machined to exacting tolerances, 4140 steel, cold rolled (39 tooth) and heat treated gears and 6 bolt hold downs featuring 12 point nuts.

PART #	DESCRIPTION
BC8860	s2000 Adjustable Cam Gears (pair)

DAYTON SLEEVES

PART #	DESCRIPTION
BC8007	M.I.D. - F20C - 87mm to 90mm Max Bore

Sleeves come in sets of four. MID = Modular Integrated Deck. Not available for F22C Block.

MITSUBISHI ECLIPSE / EAGLE TALON

4g63

CAMSHAFTS

Cold Valve Lash: .000" int / .000" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0101** 106°	272°/272°	212°/212°	.401"/.381"	10.18/9.66	**BC0100**	4 BTDC / 28 ABDC	-4 BTDC / 36 BBDC
STAGE 3	**Race/Limited Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0100.	**BC0102** 106°	280°/280°	218°/216°	.422"/.418"	10.71/10.60	**BC0100**	7 BTDC / 31 ABDC	-2 BTDC / 38 BBDC
STAGE 4	**Full Race Specification** Huge valve lift profile designed for the serious racer. Extensive modifications and tuning necessary. Requires kit BC0100.	**BC0103** 108°	288°/288°	222°/222°	.468"/.468"	11.87/11.87	**BC0100**	7 BTDC / 35 ABDC	-1 BTDC / 43 BBDC
	USDM 4G63 (Eclipse/Talon Turbo)	Stock	248°/248°	200°/200°	.349"/.350"	8.86/8.89			
	USDM 4G63 (Eclipse Non Turbo)	Stock	256°/248°	208°/204°	.365"/.349"	9.27/8.86			

Rocker Ratio: 1.7:1

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0100	BC1100	BC2100	Single spring, titanium retainer

Spring Pressure:
BC1100 Seat: 1.550" @ 84 lbs / Open: 1.000" @ 235 lbs / Coil Bind: 0.935" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
BC3100	34.0mm Intake (standard head diameter)
BC3101	30.5mm Exhaust (standard head diameter)
BC3102	34.5mm Intake (+.5mm head diameter)
BC3103	31.0mm Exhaust (+.5mm head diameter)
BC3104	35.0mm Intake (+1mm head diameter)
BC3105	31.5mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.

STROKER KITS

The 4G63 stroker kit from Brian Crower features:
- BC 4340 billet (7 bolt) or 4340 forged (6 bolt) crankshaft (102mm stroke).
- Choice of 4340 steel billet connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- High strength steel alloy wrist pins for added longevity and reduced flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- ACL Race Series bearings sold separately (**BC4100** - 7 bolt / **BC4105** - 6 bolt)

The BC stroker kit for the Mitsubishi 4G63 engine platform incorporates a 102mm stroke crank. Depending on bore size that you decide, the BC kit will take you up to a 2.4L with 86mm bore. The 4G63 kit utilizes premium steel billet connecting rods in your choice of fastener (ARP2000 or Custom Age 625+ for severe-duty). As usual, each BC kit features custom CP pistons, steel alloy wrist pins, full ring pack and locks.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0105	BC5105	BC6104	BC7105	6 bolt w/BC625+
BC0106	BC5105	BC6105	BC7105	6 bolt w/bRODS
BC0108	BC5109	BC6108	BC7109	7 bolt w/BC625+
BC0109	BC5109	BC6109	BC7109	7 bolt w/bRODS
BC0110	BC5110	BC6110	BC7110	4G64 Block - 106mm stroke

Stock Specifications:
4G63 85mm Bore x 88mm Stroke - 9.010" Block Height
4G64 86mm Bore x 100mm Stroke - 9.252" Block Height

BC Stroker Specifications:
2.4L **86mm Bore x 102mm Stroke** (choice of bore and minimum compression of 8.5:1)
2.6L **86.5mm Bore x 106mm Stroke** (choice of bore and minimum compression of 8.5:1)

See Price List for complete shelf listings

MITSUBISHI EVOLUTION VIII

4g63

CAMSHAFTS

Cold Valve Lash: .000" int / .000" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0111** 106°	272°/272°	206°/206°	.415"/.388"	10.54/9.86	**BC0100**	1 BTDC / 25 ABDC	-7 BTDC / 33 BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0100.	**BC0112** 106°	280°/280°	218°/216°	.425"/.408"	10.80/10.36	**BC0100**	7 BTDC / 31 ABDC	-2 BTDC / 38 BBDC
STAGE 4	**Race Specification** Huge valve lift profile designed for the serious racer. Extensive modifications and tuning necessary. Requires kit BC0100.	**BC0113** 108°	288°/288°	222°/222°	.468"/.468"	11.87/11.87	**BC0100**	7 BTDC / 35 ABDC	-1 BTDC / 43 BBDC
	USDM 4G63 (Evolution VIII)	Stock	248°/248°	200°/200°	.386"/.367"	9.80/9.32			
	USDM 4G63 (Evolution IX Mivac)	Stock	256°/248°	206°/200°	.396"/.367"	10.05/9.32			

Rocker Ratio: 1.7:1
Evo IX Mivec camshafts coming soon.

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0100	BC1100	BC2100	Single spring, titanium retainer

Spring Pressure:
BC1100 Seat: 1.550" @ 84 lbs / Open: 1.000" @ 235 lbs / Coil Bind: 0.935" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
BC3100	34.0mm Intake (standard head diameter)
BC3101	30.5mm Exhaust (standard head diameter)
BC3102	34.5mm Intake (+.5mm head diameter)
BC3103	31.0mm Exhaust (+.5mm head diameter)
BC3104	35.0mm Intake (+1mm head diameter)
BC3105	31.5mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.

STROKER KITS

The 4G63 stroker kit from Brian Crower features:
- BC 4340 billet steel, 7 bolt crankshaft (102mm stroke).
- Choice of 4340 steel billet connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- High strength steel alloy wrist pins for added longevity and reduced flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- ACL Race Series rod and main bearings sold separately (**BC4100** - Evo)

The BC stroker kit for the Mitsubishi 4G63 engine platform incorporates a 102mm stroke crank. Depending on bore size that you decide, the BC kit will take you up to a 2.4L with 86mm bore. The 4G63 kit utilizes premium steel billet connecting rods in your choice of fastener (ARP2000 or Custom Age 625+ for severe-duty). As usual, each BC kit features custom CP pistons, steel alloy wrist pins, full ring pack and locks.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0108	BC5109	BC6108	BC7109	7 bolt w/BC625+
BC0109	BC5109	BC6109	BC7109	7 bolt w/bRODS
BC0110	BC5110	BC6110	BC7110	4G64 Block - 106mm stroke

Stock Specifications:
4G63 85mm Bore x 88mm Stroke - 9.010" Block Height
4G64 86mm Bore x 100mm Stroke - 9.252" Block Height

BC Stroker Specifications:
2.4L **86mm Bore x 102mm Stroke** (choice of bore and minimum compression of 8.5:1)
2.6L **86.5mm Bore x 106mm Stroke** (choice of bore and minimum compression of 8.5:1)

See Price List for complete shelf listings

DODGE NEON / DSM

srt-4

CAMSHAFTS

Cold Valve Lash: .000" int / .000" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0161**	264°/264°	186°/184°	.350"/.310"	8.89/7.87	**BC0160**	- BTDC - ABDC	- ATDC - BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0160.	**BC0162**	272°/272°	194°/186°	.389"/.383"	9.88/9.73	**BC0160**	- BTDC - ABDC	- ATDC - BBDC
	USDM SRT-4 (Neon)	Stock	256°/256°	172°/174°	.327"/.260"	8.30/6.60			

Rocker Ratio: 1.75:1

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC retainers and spring seats are CNC machined from 6AL4V titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESIGN	DESCRIPTION
BC0160	BC1100	BC2160	Single Groove Keeper	Single spring, titanium retainer
BC0159	BC1100	BC2159	Triple Groove Keeper	Single spring, titanium retainer

Spring Pressure:

BC1100 Seat: 1.500" @ 92 lbs / Open: 1.100" @ 210 lbs / Coil Bind: 0.920" (when used with BC2160 retainer)

BC1100 Seat: 1.550" @ 84 lbs / Open: 1.100" @ 204 lbs / Coil Bind: 0.970" (when used with BC2159 retainer)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Available in 2.0L/Neon single groove keeper design and OEM SRT-4 triple groove keeper design.

PART #	DESCRIPTION
BC3160	35mm Intake (Std - single groove keeper)
BC3161	28.5mm Exhaust (Std - single groove keeper)
BC3164	36mm Intake (+1mm - single groove keeper)
BC3165	29.5mm Exhaust (+1mm - single groove keeper)
BC3166	35mm Intake (Std - triple groove keeper)
BC3167	28.5mm Exhaust (Std - triple groove keeper)
BC3168	36mm Intake (+1mm - triple groove keeper)
BC3169	29.5mm Exhaust (+1mm - triple groove keeper)

Note: Single groove valves require keeper/lock part number **BC2960**

4340 STEEL BILLET RODS

Built from rugged 4340 billet steel, BC Pro Billet rods for the Dodge SRT-4 are designed for high horsepower forced induction engines and available in choice of ARP2000 fasteners or premium grade, ARP Custom Age 625+ for severe-duty use.

ROD #	C-TO-C	BE BORE	BE WIDTH	PE BORE	ARP BOLT
BC6168	5.945"	2.086"	1.031"	0.866"	Cust Age 625+
BC6169	5.945"	2.086"	1.031"	0.866"	ARP2000

Made from premium 2618 aluminum forgings that are application specific, CP pistons feature CNC craftsmanship, made to only the highest tolerances. Each set includes pistons, 5100 series steel alloy wrist pins, full ring pack and wire locks.

PISTON #	BORE SIZE	OVERSIZE	COMPRESSION	PIN BORE	DESCRIPTION
CP7500	87.5mm	Standard	8.5:1	0.866"	Turbo
CP7501	88mm	+.5mm/.020"	8.5:1	0.866"	Turbo

NISSAN S13 & S14/S15

sr20de(t)

CAMSHAFTS

Cold Valve Lash: .000" int / .000" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0201** *(S13)* **BC0205** *(S14)*	264°/264°	216°/216°	.475"/.475"	12.06/12.06	**BC0200**	- BTDC - ABDC	- ATDC - BBDC
STAGE 3	**Race Specification** Longer duration profile for added rpm. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0200.	**BC0202** *(S13)* **BC0206** *(S14)*	272°/272°	224°/224°	.494"/.494"	12.55/12.55	**BC0200**	- BTDC - ABDC	- ATDC - BBDC
	JDM SR20DET (S14 Black Top)	Stock	248°/248°	191°/191°	.370"/.370"	9.40/9.40			
	JDM SR20DET (S13 Red Top)	Stock	256°/248°	203°/194°	.399"/.370"	10.13/9.40			

Rocker Ratio: 1.57:1

BC0201 and BC0202 are compatible with S13 (Red Top). BC0205 and BC0206 are compatible with NVCS intake cam (S14/S15). Note: The above profiles will also work well with solid follower applications.

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0200	BC1200	BC2200	Single spring, titanium retainer

Spring Pressure:

BC1200 Seat: 1.550" @ 90 lbs / Open: 1.025" @ 220 lbs / Coil Bind: 0.910" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
BC3200	34.15mm Intake (standard head diameter) - FWD/RWD
BC3201	30.15mm Exhaust (standard head diameter) - FWD
BC3204	35.15mm Intake (+1mm head diameter) - FWD/RWD
BC3205	31.15mm Exhaust (+1mm head diameter) - FWD
BC3207	30.15mm Exhaust (standard head diameter) - RWD
BC3209	31.15mm Exhaust (+1mm head diameter) - RWD

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size. RWD exh features 7mm stem tapered to 6mm tip.

STROKER KITS

The SR20DE(T) stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (91mm stroke).
- Choice of 4340 steel billet connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- ACL Race Series rod, main, thrust bearings sold separately (**BC4200**)

The BC stroker kit for the Nissan SR20DE(T) engine incorporates a 91mm stroke, steel billet crankshaft. Depending on bore size that you decide, the BC kit will take you up to a 2.35L with a 90mm bore, recommend 89mm bore for big boost (20 lbs +) applications.

The SR20DE(T) kit utilizes premium steel billet connecting rods. As usual, each BC kit features custom CP pistons, wrist pins, full ring pack. and locks. Big time horsepower and torque gains.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0208	BC5208	BC6208	BC7209	w/BC625+ Rods
BC0209	BC5209	BC6209	BC7209	w/bRODS

Stock Specifications:

SR20 86mm Bore x 86mm Stroke - 8.317" Block Height

BC Stroker Specifications:

2.35L 90mm Bore x 91mm Stroke (choice of bore and minimum compression of 9.6:1)

Note: If running over 650 flywheel horsepower, highly recommend BC625+ rods (Kit BC6208).

Crankshafts, connecting rods and pistons with all hardware are sold separately.

PART #	DESCRIPTION
BC8020	SR20 Series - 86mm to 90mm Bore

Sleeves come in sets of four.

See Price List for complete shelf listings

NISSAN 240SX/S13 & S14

ka24de

CAMSHAFTS

Cold Valve Lash: .008" int / .010" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0211** 114°	264°/264°	218°/218°	.375"/.375"	9.52/9.52	**BC0210**	-1 BTDC 39 ABDC	-9 BTDC 47 BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0210.	**BC0212** 114°	272°/272°	226°/226°	.401"/.401"	10.19/10.19	**BC0210**	3 BTDC 43 ABDC	-5 BTDC 51 BBDC
	USDM KA24DE (240SX)	Stock	256°/256°	203°/207°	.344"/.357"	8.73/9.06			

Bucket Diameter: 1.218"

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC retainers and spring seats are CNC machined from 6AL4V titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	SEAT #	DESCRIPTION
BC0210	BC1010	BC2210	BC2921	Dual spring, titanium retainer/seat

Spring Pressure:
BC1010 Seat: 1.400" @ 73 lbs / Open: 1.000" @ 200 lbs / Coil Bind: 0.940" (no machine work required)
Maximum lift on stock valve springs is .380".

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Oversize head diameter only.

PART #	DESCRIPTION
BC3210	37.10mm Intake (+.5mm head diameter)
BC3211	31.80mm Exhaust (+.5mm head diameter)

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.

STROKER KITS

The KA24 stroker kit from Brian Crower features:
- BC 4340 billet steel crankshaft (102mm stroke) that is fully counterweighted.
- Choice of 4340 steel billet connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- ACL Race Series rod, main, thrust bearings sold separately (**BC4210**)

The BC stroker kit for the Nissan KA24DE engine platform incorporates a 102mm stroke crankshaft. Depending on bore size that you decide, the BC kit will take you up to a 2.65L with 91mm bore. The KA24 kit utilizes premium steel billet connecting rods. As usual, each BC kit features custom CP pistons, highest quality, steel alloy wrist pins, full ring pack and buttons and choice of rods, BC625+ for severe-duty or the bROD for budget.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0218	BC5219	BC6218	BC7219	w/BC625+ Rods
BC0219	BC5219	BC6219	BC7219	w/bRODS Rods

Stock Specifications:
KA24DE 89mm Bore x 96mm Stroke - 9.725" Block Height
BC Stroker Specifications:
2.65L 91mm Bore x 102mm Stroke (choice of bore and minimum compression of 8.5:1)
Crankshafts, connecting rods and pistons with all hardware are sold separately.

MANLEY CP ARP

See Price List for complete shelf listings

NISSAN 350Z / INFINITI G35

vq35de

CAMSHAFTS

Cold Valve Lash: .008" int / .010" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0221**	264°/264°	222°/222°	.426"/.426"	10.82/10.82	**BC0220**	- BTDC - ABDC	- ATDC - BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0220.	**BC0222**	272°/272°	234°/234°	.459"/.459"	11.59/11.59	**BC0220**	- BTDC - ABDC	- ATDC - BBDC
	VQ35DE (Nissan 350Z)	Stock	256°/256°	208°/208°	.375"/.375"	9.52/9.52			
	VQ35DE (Infiniti G35)	Stock	258°/256°	210°/208°	.378"/.375"	9.60/9.52			

Bucket Diameter: 1.200"
Fits 2003-up, non Rev-Up engine. No valve timing events due to variable intake cam.

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0220	BC1220	BC2220	Single spring, titanium retainer

Spring Pressure:
BC1220 Seat: 1.425" @ 80 lbs / Open: 0.990" @ 192 lbs / Coil Bind: 0.900" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
BC3220	37.0mm Intake (standard head diameter)
BC3221	31.0mm Exhaust (standard head diameter)
BC3224	38mm Intake (+1mm head diameter)
BC3225	32mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.

STROKER KITS

The Nissan/Infiniti VQ35DE stroker kit from Brian Crower features:
- BC 4340 billet steel crankshaft (88mm or 86.4mm stroke).
- Choice of 4340 steel billet connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 9310 nickel carbon steel alloy, upgraded wrist pins come standard.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install or sold for self balancing.
- ACL Race Series rod, main, thrust bearings sold separately (**BC4220**)

The BC stroker kit for the Nissan VQ35DE engine platform incorporates a 88mm or 86.4mm stroke, billet crank. Depending on bore size that you decide, the BC kit will take you up to a 4.15L with 100mm bore. As usual, each BC kit features custom CP aluminum forged pistons, 9310 alloy wrist pins, ring pack and buttons. Available in any desired bore and compression ratio for use in turbo or normally aspirated.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0225	BC5225	BC6228	BC7229	86.4mm stroke w/BC625+ Rods
BC0226	BC5225	BC6229	BC7229	86.4mm stroke w/bRODS
BC0229	BC5229	BC6225	BC7229	88mm stroke w/Custom Rods

Stock Specifications:
VQ35 95.5mm Bore x 81.4mm Stroke - 8.440" Block Height
BC Stroker Specifications:
4.15L 100mm Bore x 88mm Stroke (choice of bore and minimum compression of 9:1 to 14:1)
4.10L 100mm Bore x 86.4mm Stroke (choice of bore and minimum compression of 9:1 to 14:1)
Note: Kits are available unbalanced also, specify "U" after kit part number if self balancing.
Crankshafts, connecting rods and pistons with all hardware are sold separately.

MANLEY CP ARP

See Price List for complete shelf listings

DARTON SLEEVES

PART #	DESCRIPTION
BC8022	M.I.D. - VQ35DE - 95mm to 100mm Max Bore

Sleeves come in sets of six. MID = Modular Integrated Deck

NISSAN SKYLINE

rb25/rb26

STROKER KITS

The Nissan Skyline RB25/RB26 stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (79mm stroke).
- 4340 steel billet, Pro Series connecting rods with ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 9310 nickel carbon steel alloy wrist pins.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- ACL Race Series rod, main, thrust bearings sold separately (**BC4230**)

The BC stroker kit for the Nissan Skyline RB25/RB26 engine platform incorporates a 79mm stroke, steel billet crank. Depending on bore size that you decide, the BC kit will take you up to a 2.85L with 87.5mm bore (Darton sleeved block). As usual, each BC kit features custom CP aluminum forged pistons, 9310 alloy wrist pins, ring pack and buttons. Available in any desired bore and compression ratio.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0239	BC5239	BC6238	BC7239	79mm stroke

Stock Specifications:
RB26 86mm Bore x 73.7mm Stroke - 7.427" Block Height
RB25 86mm Bore x 71.7mm Stroke - 7.427" Block Height

BC Stroker Specifications:
2.85L 87.5mm Bore x 79mm Stroke (choice of bore and minimum compression of 8.5:1 to 9.5:1)
Crankshafts, connecting rods and pistons with all hardware are sold separately.

PART #	DESCRIPTION
BC8023	RB26 - 87mm to 87.5mm Max Bore

Sleeves come in sets of six.

See Price List for complete shelf listings

NISSAN PATROL 4.8L

tb48

CAMSHAFTS

Cold Valve Lash: .008" int / .010" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0251** 114°	264°/264°	230°/222°	.406"/.401"	10.31/10.19	**BC0250**	5 BTDC / 45 ABDC	-7 BTDC / 49 BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0250.	**BC0252** 114°	272°/272°	234°/230°	.406"/.425"	10.31/10.79	**BC0250**	7 BTDC / 47 ABDC	-3 BTDC / 53 BBDC
	TB48 (Nissan Patrol)	Stock	256°/256°	214°/206°	.392"/.376"	9.95/9.55			

Bucket Diameter: 1.200"

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0250	BC1250	BC2250	Single spring, titanium retainer

Spring Pressure:
BC1250 Seat: 1.550" @ 80 lbs / Open: 1.050" @ 220 lbs / Coil Bind: 0.900" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
BC3250	Stainless Intake Valves (set/12) - (Std - 38.5mm)).
BC3251	Stainless Exhaust Valves (set/12) - (Std - 33.5mm).
BC3252	Stainless Intake Valves (set/12) - (+1mm - 39.5mm)).
BC3253	Stainless Exhaust Valves (set/12) - (+1mm - 34.5mm).

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.

STROKER KITS

The Nissan Patrol TB48 stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (108mm stroke).
- 4340 steel billet, custom Pro Series connecting rods w/ARP 220,000 psi fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 9310 nickel carbon steel alloy wrist pins.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- ACL Race Series rod and main bearings (Big Block Chevrolet).
- Fully system balanced and ready to install.

The BC stroker kit for the Nissan Patrol TB48 engine platform incorporates a 108mm stroke, steel billet crank. Depending on bore size that you decide, the BC kit will take you up to a 5.15L with 100.5mm bore. As usual, each BC kit features custom CP aluminum forged pistons, 9310 alloy wrist pins, ring pack and buttons. Available in any desired bore and compression ratio for use in turbo or normally aspirated.

KIT #	CRANK #	ROD #	PISTON #	BEARING #	DESCRIPTION
BC0259	BC5259	BC6258	BC7259	BC4250	108mm stroke

Stock Specifications:
TB48 99.5mm Bore x 102mm Stroke - 10.059" Block Height

BC Stroker Specifications:
5.15L 100.5mm Bore x 108mm Stroke (choice of bore and minimum compression of 9:1 to 14:1)
Crankshafts, connecting rods and pistons with all hardware are sold separately.

See Price List for complete shelf listings

TOYOTA SUPRA MK IV

2jzgte

CAMSHAFTS

Cold Valve Lash: .006" int / .008" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0301** 114°	264°/264°	218°/222°	.375"/.375"	9.52/9.52	**BC0300**	-1 BTDC 39 ABDC	-7 BTDC 49 BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0300.	**BC0302** 114°	272°/272°	228°/229°	.406"/.415"	10.31/10.54	**BC0300**	4 BTDC 44 ABDC	-3.5 BTDC 52.5 BBDC
STAGE 3	**Full Race Specification** Giant lift profile for ultimate cylinder fill rates. Intended for full race motor running race fuel. Requires kit BC0300.	**BC0303** 114°	280°/280°	232°/232°	.425"/.425"	10.79/10.79	**BC0300**	6 BTDC 46 ABDC	-2 BTDC 54 BBDC
	2JZGTE (Toyota Supra '93-'98)	Stock	248°/248°	200°/204°	.339"/.346"	8.61/8.79			

Bucket Diameter: 1.200"

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0300	BC1300	BC2300-24	Single spring, titanium retainer

Spring Pressure:
BC1300 Seat: 1.325" @ 80 lbs / Open: 0.980" @ 158 lbs / Coil Bind: 0.810" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Hardened tips for greater longevity. Standard and oversize head design available.

PART #	DESCRIPTION
BC3300	33.6mm Intake (standard head diameter)
BC3301	29.0mm Exhaust (standard head diameter)
BC3302	34.6mm Intake (+1mm head diameter)
BC3303	30.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.

STROKER KITS

The Toyota 2JZGTE stroker kit from Brian Crower features:
- BC 4340 billet steel crankshaft (94mm stroke).
- Choice of 4340 steel billet connecting rods (BC625+, Carrillo, Manley)
- CP aluminum forged pistons (any bore size, any compression ratio).
- 9310 nickel carbon steel alloy, upgraded wrist pins come standard.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- Oil pump drive gear sold separately (**BC8830**)
- ACL Race Series bearings sold separately (**BC4300**)

The BC stroker kit for the Toyota 2JZGTE engine platform is used by the top teams in Sport Compact drag racing. Incorporates a 94mm stroke, steel billet crank. Depending on bore size that you decide, the BC kit will take you up to a 3.4L with 87mm bore. As usual, each BC kit features custom CP aluminum forged pistons, 9310 alloy wrist pins, ring pack and buttons. Built for high horsepower and torque.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0309	BC5309	BC6309	BC7309	BC625+ Rod
BC0308	BC5309	CA6308	BC7309	Carrillo Rod

Stock Specifications:
2JZGTE 86mm Bore x 86mm Stroke - 8.620" Block Height
For LightWeight crank (15 lbs less), specify "LW" after stroker kit part number (ex. BC0309LW).
BC Stroker Specifications:
3.4L 87mm Bore x 94mm Stroke (choice of bore and minimum compression of 8.5:1 to 9:1)
Crankshafts, connecting rods and pistons with all hardware are sold separately.

MANLEY CP ARP
See Price List for complete shelf listings

LEXUS IS300

2jzge

CAMSHAFTS

Cold Valve Lash: .008" int / .010" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0311** 114°	264°/264°	218°/218°	.344"/.344"	8.74/8.74	**BC0300**	- BTDC - ABDC	- ATDC - BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0300.	**BC0312** 114°	272°/272°	229°/231°	.375"/.380"	9.52/9.65	**BC0300**	- BTDC - ABDC	- ATDC - BBDC
	2JZGE (Lexus IS300)	Stock	248°/248°	200°/194°	.337"/.327"	8.56/8.31			

Bucket Diameter: 1.200"
No valve timing events due to variable intake cam.

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0300	BC1300	BC2300-24	Single spring, titanium retainer

Spring Pressure:
BC1300 Seat: 1.325" @ 80 lbs / Open: 0.980" @ 158 lbs / Coil Bind: 0.810" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
BC3300	33.6mm Intake (standard head diameter)
BC3301	29.0mm Exhaust (standard head diameter)
BC3302	34.6mm Intake (+1mm head diameter)
BC3302	30.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.
Valve guides vary and may require honing to size.

STROKER KITS

The Toyota 2JZGTE stroker kit from Brian Crower features:
- BC 4340 billet steel crankshaft (94mm stroke).
- Choice of 4340 steel billet connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 9310 nickel carbon steel alloy, upgraded wrist pins come standard.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- Oil pump drive gear sold separately (**BC8830**)
- ACL Race Series bearings sold separately (**BC4300**)

The BC stroker kit for the Toyota 2JZGTE engine platform is used by the top teams in Sport Compact drag racing. Incorporates a 94mm stroke, steel billet crank. Depending on bore size that you decide, the BC kit will take you up to a 3.4L with 87mm bore. As usual, each BC kit features custom CP aluminum forged pistons, 9310 alloy wrist pins, ring pack and buttons. Built for high horsepower and torque.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0309	BC5309	BC6309	BC7309	BC625+ Rod
BC0308	BC5309	CA6308	BC7309	Carrillo Rod

Stock Specifications:
2JZGE 86mm Bore x 86mm Stroke - 8.620" Block Height
For LightWeight crank (15 lbs less), specify "LW" after stroker kit part number (ex. BC0309LW).
BC Stroker Specifications:
3.4L 87mm Bore x 94mm Stroke (choice of bore and minimum compression of 8.5:1 up to 13.5:1)
Crankshafts, connecting rods and pistons with all hardware are sold separately.

MANLEY CP ARP
See Price List for complete shelf listings

TOYOTA SUPRA MK III

7mgte

CAMSHAFTS

Cold Valve Lash: .008" int / .010" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK.	**BC0321**	264°/264°	220°/220°	.336"/.336"	8.53/8.53	**BC0320**	- BTDC / - ATDC - ABDC / - BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0320.	**BC0322**	272°/272°	226°/226°	.342"/.342"	8.68/8.68	**BC0320**	- BTDC / - ATDC - ABDC / - BBDC
	USDM 7MGTE ('87-'92 MKIII)	Stock	256°/256°	201°/201°	.297"/.297"	7.54/7.54		

Bucket Diameter: 0.980"

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC retainers and spring seats are CNC machined from 6AL4V titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0320	BC1320	BC2320	Single spring, titanium retainer

Spring Pressure:
BC1320 Seat: 1.325" @ 60 lbs / Open: 0.950" @ 153 lbs / Coil Bind: 0.880" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Oversize head diameter only.

PART #	DESCRIPTION
BC3320	32mm Intake (Std head diameter)
BC3321	27.5mm Exhaust (Std head diameter)
BC3322	32.5mm Intake (+.5mm head diameter)
BC3323	28mm Exhaust (+.5mm head diameter)
BC3324	33mm Intake (+1mm head diameter)
BC3325	28.5mm Exhaust (+1mm head diameter)

4340 STEEL BILLET RODS

Built from rugged 4340 billet steel, BC rods for the 7MGTE are designed for high horsepower forced induction applications. Available in your choice of ARP fasteners, either ARP2000 for budget considerations or Custom Age 625+ for severe-duty.

ROD #	C-TO-C	BE BORE	BE WIDTH	PE BORE	BOLTS
BC6328	5.980"	2.166"	0.977"	0.866"	Cust Age 625+
BC6329	5.980"	2.166"	0.977"	0.866"	ARP2000

Made from premium 2618 aluminum forgings that are application specific, CP pistons feature CNC craftsmanship, made to only the highest tolerances. Each set includes pistons, 9310 nickel carbon alloy wrist pins, full ring pack and wire locks.

PISTON #	BORE SIZE	OVERSIZE	COMPRESSION	PIN BORE	DESCRIPTION
CP7470	84mm	+1mm	8.4:1	0.866"	Turbo

FORD MODULAR

4.6/5.4

STROKER KITS

The Ford Modular (4.6L and 5.4L) stroker kit from Brian Crower features:
- BC 4340 billet steel crankshaft (3.800" stroke - 4.6L or 4.415" stroke - 5.4L).
- Manley 4340 steel billet, H-Beam or Pro Series connecting rods with ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 9310 nickel carbon steel alloy wrist pins.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- Fully system balanced and ready to install.
- ACL Race Series rod, main, thrust bearings sold separately (**BC4400** - 4.6L & 5.4L)

The BC stroker kit for the Ford Modular (4.6L and 5.4L) engine platform incorporates a 3.800" stroke, 4340 steel billet crank. Depending on bore size that you decide, the BC kit will take you up to a 2.85L with 87.5mm bore (Darton sleeved block). As usual, each BC kit features custom CP aluminum forged pistons, 9310 alloy wrist pins, ring pack and buttons. Available in any desired bore and compression ratio.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0408	BC5409	BC6408	BC7409	4.6L w/Manley Turbo-Tuff
BC0409	BC5409	BC6409	BC7409	4.6L w/Manley H-Beam
BC0428	BC5429	BC6428	BC7429	5.4L w/Manley Turbo-Tuff
BC0429	BC5429	BC6429	BC7409	5.4L w/Manley H-Beam

Stock Specifications:
4.6L 3.552" Bore x 3.540" Stroke - 8.937" Block Height
5.4L 3.552" Bore x 4.165" Stroke - 10.079" Block Height

BC Stroker Specifications:
4.6L to 5.47L - 3.740" Bore x 3.800" Stroke (choice of bore and compression, bore is achieved w/sleeved block)
5.4L to 6.36L - 3.740" Bore x 4.415" Stroke (choice of bore and compression, bore is achieved w/sleeved block)

PART #	DESCRIPTION
BC8040	M.I.D. - 4.6L - 92mm to 95mm Max Bore
BC8046	M.I.D. - 5.4L - 92mm to 95mm Max Bore

Sleeves come in sets of eight. MID = Modular Integrated Deck

See Price List for complete shelf listings

SUBARU WRX

ej205

CAMSHAFTS

Cold Valve Lash: .006" int / .008" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK. 114°	**BC0601**	272°/272°	220°/220°	.400"/.400"	10.16/10.16	**BC0600**	0 BTDC 40 ABDC	-8 BTDC 48 BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0600. 114°	**BC0602**	280°/280°	234°/234°	.410"/.410"	10.80/10.80	**BC0600**	7 BTDC 47 ABDC	-1 BTDC 55 BBDC
	USDM EJ205 ('02-'04 WRX)	Stock	256°/256°	205°/205°	.365"/.361"	9.27/9.17			
	JDM EJ207	Stock	256°/256°	205°/210°	.325"/.339"	8.25/8.61			

Bucket Diameter: 1.220"

The above intake cams will not work with AVCS (EJ207 or EJ257).

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0600	BC1600	BC2300-16	Single spring, titanium retainer

Spring Pressure:

BC1600 Seat: 1.420" @ 60 lbs / Open: 1.000" @ 160 lbs / Coil Bind: 0.860" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
BC3600	36.0mm Intake (standard head diameter)
BC3601	32.0mm Exhaust (standard head diameter)
BC3604	37.0mm Intake (+1mm head diameter)
BC3605	33.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size. EJ20 and EJ25 valves are the same.

STROKER KITS

The EJ20 stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (79mm stroke). Not an OEM EJ25 crank.
- Choice of 4340 steel billet connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins for added longevity and reduced flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- ACL Race Series bearings sold separately (**BC4600**).
- Fully system balanced and ready to install.

The BC stroker kit for the Subaru EJ20 engine incorporates a proven 79mm stroke, steel billet crankshaft, not a factory STi or EJ25 crank. Depending on bore size that you decide, the BC kit will take you up to a 2.29L with a safe 96mm bore (Darton). As usual, each BC kit features custom CP forged aluminum pistons, premium alloy wrist pins, full ring pack and buttons. Big time power and torque gains.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0608	BC5609	BC6608	BC7609	w/BC625+ Rods
BC0609	BC5609	BC6609	BC7609	w/bROD

Stock Specifications:

EJ20 92mm Bore x 75mm Stroke - 7.913" Block Height

BC Stroker Specifications:

2.29L 96mm Bore x 79mm Stroke (choice of bore and minimum compression of 8.5:1)

Note: If running over 650 flywheel horsepower, highly recommend BC625+ rods (BC6608).

Crankshafts, connecting rods and pistons with all hardware are sold separately.

PART #	DESCRIPTION
BC8060	EJ20 (WRX) - 92mm to 96mm Max Bore

Sleeves come in sets of four.

See Price List for complete shelf listings

SUBARU STi

ej257

CAMSHAFTS

Cold Valve Lash: .006" int / .008" exh

DESCRIPTION		CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
STAGE 2	**Street/Strip Specification** Plug and play application. Short duration for nice street manners, slight lope at idle. Excellent all purpose spec. OEM spring OK. 114°	**BC0621**	272°/272°	220°/220°	.400"/.400"	10.16/10.16	**BC0600**	0 BTDC 40 ABDC	-8 BTDC 48 BBDC
STAGE 3	**Race Specification** Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0600. 114°	**BC0622**	280°/280°	234°/234°	.410"/.410"	10.41/10.41	**BC0600**	7 BTDC 47 ABDC	-1 BTDC 55 BBDC
	USDM EJ257 ('05-up STi)	Stock	256°/256°	204°/208°	.378"/.385"	9.60/9.78			
	JDM EJ254	Stock	256°/256°	211°/209°	.374"/.371"	9.50/9.42			

Bucket Diameter: 1.220"

The above cams work with AVCS.

VALVE SPRING/RETAINER KIT

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures for consistent pressures. BC titanium retainers are CNC machined from 6AL4V round bar titanium to exacting tolerances.

KIT #	SPRING #	RETAINER #	DESCRIPTION
BC0600	BC1600	BC2300-16	Single spring, titanium retainer

Spring Pressure:

BC1600 Seat: 1.420" @ 60 lbs / Open: 1.000" @ 160 lbs / Coil Bind: 0.860" (no machine work required)

STAINLESS STEEL VALVES

BC valves are made from premium stainless steel, fully machined and swirl polished for ultimate air flow. Dished head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
BC3600	36.0mm Intake (standard head diameter)
BC3601	32.0mm Exhaust (standard head diameter)
BC3604	37.0mm Intake (+1mm head diameter)
BC3605	33.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size. EJ20 and EJ25 valves are the same.

STROKER KITS

The EJ25 stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (83mm stroke). Not a reworked OEM EJ25 crank.
- Choice of 4340 steel billet connecting rods w/ARP fasteners.
- CP aluminum forged pistons (any bore size, any compression ratio).
- 5100 series steel alloy wrist pins for added longevity and reduced flex.
- Ductile iron plasma top rings, tapered second ring, low tension oil rings.
- ACL Race Series bearings sold separately (**BC4600**).
- Fully system balanced and ready to install.

The BC stroker kit for the Subaru EJ25 engine incorporates a big 83mm stroke, steel billet crankshaft, not a reworked EJ25 crank. Depending on bore size that you decide, the BC kit will take you up to a 2.71L with a safe 102mm bore (Darton). As usual, each BC kit features custom CP forged aluminum pistons, premium alloy wrist pins, full ring pack and buttons. Big time power and torque gains.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
BC0628	BC5629	BC6608	BC7629	w/BC625+ Rods
BC0629	BC5629	BC6609	BC7629	w/bROD

Stock Specifications:

EJ25 99.5mm Bore x 79mm Stroke - 7.913" Block Height

BC Stroker Specifications:

2.71L 102mm Bore x 83mm Stroke (choice of bore and minimum compression of 8.5:1)

Note: If running over 650 flywheel horsepower, highly recommend BC625+ rods (BC6608).

Crankshafts, connecting rods and pistons with all hardware are sold separately.

PART #	DESCRIPTION
BC8062	EJ25 (STi) - 99.5mm to 102mm Max Bore

Sleeves come in sets of four.

See Price List for complete shelf listings

SPRING/RETAINER KITS

BC valve spring and titanium retainers kits are system matched to work in unison to deliver better valve control at extended rpm's and allow for greater lift camshafts for added performance and reliability.

RETAINER #	ENGINE MAKE	
BC0010	Honda/Acura B16A/B18C	Dual
BC0020	Acura B18A/B	Dual
BC0030	Honda H22	Dual
BC0040	Honda K20A2/Z3	Dual, Ti Ret, Seat
BC0040S	Honda K20A2/Z3	Dual, Steel Ret, Seat
BC0040X	Honda K20A2/Z3	Dual, Ti Ret, No Seat
BC0040SX	Honda K20A2/Z3	Dual,Steel Ret,No Seat
BC0050	Honda K20A3/K24A	Single
BC0100	Mitsubishi/DSM 4G63	Single
BC0159	Dodge SRT-4 (Triple Groove)	Single
BC0160	Dodge Neon (Single Groove)	Single
BC0200	Nissan SR20DE(T)	Single
BC0210	Nissan KA24DE	Dual w/Seat
BC0220	Nissan VQ35DE	Single
BC0240	Nissan SR20VE	Dual
BC0250	Nissan TB48 (Patrol)	Single
BC0300	Toyota 2JZGTE/GE	Single
BC0320	Toyota 7MGTE/GE	Single
BC0600	Subaru EJ205 / EJ257	Single

Retainers are available in bulk purchases (500 pcs or more). Contact BC for pricing and availability.

TITANIUM RETAINERS

The ultimate in lightweight high performance, BC titanium retainers typically weigh in approximately 40% less than the factory OEM steel units. CNC machined for premium 6AL4V titanium bar stock to exacting tolerances,

RETAINER #	ENGINE MAKE	STEM SIZE
BC2010	Honda/Acura B16A/B18C, H22, K20/K24, F20C/F22C	5.5mm
BC2011	Steel - Honda B16A/B18C, H22, K20/K24, F20C/F22C	5.5mm
BC2020	Acura B18A / B18B - set/16	6.5mm
BC2050	Acura K20A3 / K24A - set/16	5.5mm
BC2100	Mitsubishi 4G63 (1st/2nd Gen, Evo) - Set/16	6.5mm
BC2159	Dodge SRT-4 (Triple Groove Valve/Locks) - Set/16	6.0mm
BC2160	Dodge/DSM Neon (Single Groove Valve) - Set/16	6.0mm
BC2200	Nissan SR20DET - set/16	6.0mm
BC2205	Nissan SR20VE - set/16	6.0mm
BC2210	Nissan KA24 - set/16	7.0mm
BC2220	Nissan VQ35DE - set/24	6.0mm
BC2250	Nissan TB48 - set/24	6.0mm
BC2300	Toyota 2JZGTE / 2JZGE - set/24	6.0mm
BC2320	Toyota 7MGTE - set/24	6.0mm
BC2600	Subaru EJ205 / EJ257 - set/16	6.0mm

VALVE SPRINGS

Designed for high rpm, BC valve springs are wound from only the highest grade, super clean, chrome silicone alloy and feature proprietary processing procedures (chamfer, debur, etc...) for consistent pressures over long term, high rpm usage. Quality valve springs are critical in the prevention of premature valve float.

SPRING #	ENGINE MAKE	TYPE
BC1010	Honda B16A / Acura B18C / Nissan KA24 - set/16	Dual
BC1020	Acura B18A / B18B - set/16	Dual
BC1030	Honda H22 / H22A / Nissan SR20VE - set/16	Dual
BC1040	Honda K Series (K20/K24), F20C/F22C - Set/16	Dual
BC1050	Honda K20A3 / K24A - Set/16	Single
BC1100	Mitsubishi 4G63 (1st/2nd Gen, Evo) - Set/16	Single
BC1200	Nissan SR20DET - set/16	Single
BC1220	Nissan VQ35DE - set/24	Single
BC1250	Nissan TB48 - set/24	Single
BC1300	Toyota 2JZGTE / 2JZGE - set/24	Single
BC1320	Toyota 7MGTE - set/24	Single
BC1600	Subaru EJ205 / EJ257 - set/16	Single

The above valve springs are available in bulk purchases (500 pcs or more). Contact BC for pricing.

WARRANTY DISCLAIMER

Due to the nature of performance applications and lack of control during installation and operation, all products sold by Brian Crower Inc. are sold without any expressed warranty or any implied warranty of merchantability or fitness for a particular purpose. Brian Crower Inc. shall not, under any circumstances, be liable for any special, incidental or consequential damages, including, but not limited to, damages or loss of other property or equipment, loss of profits or revenue, cost of purchased or replacement goods, or claims of customers of the purchaser which may arise and/or result from the sale, installation or use of these parts. Brian Crower Inc. reserves the right to make product improvements or changes without notice and without incurring liability with respect to similar products previously manufactured.

Brian Crower Inc. warranties are void when said Brian Crower product in question has been physically altered, improperly installed or used or otherwise damaged due to no fault of Brian Crower Inc. or has not been used for the said purpose it was intended or for which it was designed. Brian Crower Inc. does not warrant the performance of the products due to Brian Crower Inc. lack of control during product installation and usage.

These products are designed primarily for off highway use. Check State and Federal laws and emissions regulations.

Please visit www.briancrower.com for complete details.

4340 STEEL BILLET RODS

Made from premium, 4340 steel billet material, BC connecting rods are available in two distinct styles depending on horsepower, budget and engine application, but both include the exclusive BC oiling groove in the pin bushing for added oiling. The bROD Series is intended for moderate boost applications and all motor race applications where peak horsepower is not going to exceed 700 at the flywheel. Utilizes venerable ARP2000 fasteners. The BC625+ Series rods are designed for high horsepower, high boost and extreme rpm applications where nothing but the best rod will do. Features include ARP's premium Custom Age 625+ bolt rated to 280,000 p.s.i. for ultimate fastening capabilities as well as aluminum-bronze bushings to insure long, reliable service, no matter what the boost, nitrous or rpm.

ROD #	ENGINE MAKE	C-TO-C	BE BORE	BE WIDTH	PE BORE	PE WIDTH
BC6018	Honda B16A - bROD	5.290"	1.890"	0.935"	0.827"	0.710"
BC6028	Honda B16A - 625+	5.290"	1.890"	0.935"	0.827"	0.710"
BC6026	Acura B18C - bROD	5.433"	1.890"	0.858"	0.827"	0.710"
BC6025	Acura B18C - 625+	5.433"	1.890"	0.858"	0.827"	0.710"
BC6019	Acura B18A/B - bROD	5.394"	1.890"	0.935"	0.827"	0.710"
BC6029	Acura B18A/B - 625+	5.394"	1.890"	0.935"	0.827"	0.710"
BC6038	Honda H22 - 625+	5.636"	2.008"	0.935"	0.866"	0.900"
BC6039	Honda H22 - bROD	5.636"	2.008"	0.935"	0.866"	0.900"
BC6044	Honda K20A/Z - 625+	5.473"	2.008"	0.740"	0.866"	0.900"
BC6048*	Honda K20A/Z - Cust	5.473"	1.890"	0.935"	0.866"	0.900"
BC6049*	Honda K20A/Z - LW	5.473"	1.890"	0.935"	0.866"	0.900"
BC6045	Honda K24 - 625+	5.985"	2.008"	0.740"	0.866"	0.900"
BC6049*	Honda K24 - Custom	5.985"	1.890"	0.935"	0.866"	0.900"
BC6059*	Honda K24 - LW Cust	5.985"	1.890"	0.935"	0.866"	0.900"
BC6068	Honda F22C - 625+	5.893"	2.008"	0.940"	0.905"	0.940"
BC6069	Honda F20C - 625+	6.023"	2.008"	0.940"	0.905"	0.940"
BC6104	Mits 4G63 (1g) - 625+	5.906"	1.890"	1.115"	0.827"	1.115"
BC6105	Mits 4G63 (1g) - bROD	5.906"	1.890"	1.115"	0.827"	1.115"
BC6108	Mits 4G63 (2g) - 625+	5.906"	1.890"	1.038"	0.866"	1.038"
BC6109	Mits 4G63 (2g) - bROD	5.906"	1.890"	1.038"	0.866"	1.038"
BC6168	Dodge SRT-4 - 625+	5.945"	2.086"	1.038"	0.866"	1.038"
BC6169	Dodge SRT-4 - bROD	5.945"	2.086"	1.038"	0.866"	1.038"
BC6208	Nissan SR20 - 625+	5.366"	2.008"	0.896"	0.866"	0.858"
BC6209	Nissan SR20 - bROD	5.366"	2.008"	0.896"	0.866"	0.858"
BC6218	Nissan KA24 - 625+	6.495"	2.086"	0.973"	0.827"	1.000"
BC6219	Nissan KA24 - bROD	6.495"	2.086"	0.973"	0.827"	1.000"
BC6225	Nissan VQ35 - Custom	5.560"	2.165"	0.818"	0.866"	0.858"
BC6228	Nissan VQ35 - 625+	5.675"	2.165"	0.818"	0.866"	0.858"
BC6229	Nissan VQ35 - bROD	5.675"	2.165"	0.818"	0.866"	0.858"
BC6238	Nissan RB26 - 625+	4.783"	2.008"	0.858"	0.827"	0.858"
BC6258	Nissan TB48 - Pro	6.436"	2.362"	1.290"	0.905"	1.025"
BC6259	Nissan TB48 - Custom	6.535"	2.325"	0.991"	0.990"	0.991"
BC6309	Toyota 2JZ - 625+	5.590"	2.166"	1.020"	0.866"	1.000"
BC6328	Toyota 7M - 625+	5.980"	2.166"	0.977"	0.866"	1.010"
BC6329	Toyota 7M - bROD	5.980"	2.166"	0.977"	0.866"	1.010"

**Indicates rod does not match OEM specifications and will not fit OEM crankshaft.*

4340 STEEL CRANKSHAFTS

BC billet stroker crankshafts are made from only the highest grade, 4340 steel bar stock to guarantee the strongest part available at any price. CNC machined on state-of-the-art mills and nitrided for added longevity, BC billet crankshafts feature large radius journals for added strength at high horsepower, ground to exacting tolerances for long lasting service.

CRANK #	ENGINE MAKE	STROKE
BC5018*	Honda B16A	84.5mm
BC5018LW*	Honda B16A - LightWeight (-7 lbs)	84.5mm
BC5019*	Honda B18A/B, B20B, B18C	95mm
BC5019LW*	Honda B18A/B, B20B, B18C - LightWeight (-7 lbs)	95mm
BC5020*	Honda B18A/B, B20B, B18C	92mm
BC5020LW*	Honda B18A/B, B20B, B18C - LightWeight (-7 lbs)	92mm
BC5035	Honda H22/H22A (55mm main - 1997-2001)	100mm
BC5039	Honda H22/H22A (50mm main - 1993-1996)	100mm
BC5048	Honda/Acura K20A/K20Z (Custom Crank Pin)	92mm
BC5049	Honda K24A1/K24A2 (Custom Crank Pin)	102mm
BC5069	Honda F20C/F22C	97mm
BC5105*	Mitsubishi 4G63 (6 Bolt)	102mm
BC5109	Mitsubishi 4G63/Evo (7 Bolt)	102mm
BC5110	Mitsubishi 4G64 Block w/4G63 Head (7 Bolt)	106mm
BC5209	Nissan SR20DE(T)	91mm
BC5219	Nissan KA24DE - Fully Counterweighted	102mm
BC5225	Nissan VQ35DE - Fully Balanced	86.4mm
BC5225U	Nissan VQ35DE - Unbalanced	86.4mm
BC5229	Nissan VQ35DE - Fully Balanced	88mm
BC5229U	Nissan VQ35DE - Unbalanced	88mm
BC5239	Nissan RB26/RB25	79mm
BC5259	Nissan TB48 - Big Block Chevy Pin	108mm
BC5309	Toyota 2JZGTE/2JZGE	94mm
BC5309LW	Toyota 2JZGTE/2JZGE - Lightweight (-15 lbs)	94mm
BC5409	Ford 4.6L	3.800"
BC5429	Ford 5.4L	4.415"
BC5609	Subaru EJ20	79mm
BC5629	Subaru EJ25	83mm

**Indicates 4340 forging*

SEMI & PRIVATE LABEL CAMS

BC Inc. can supply semi finished cam core suitable for final grinding or private label, finished ground cams, CNC machined on state-of-the-art Schaudt grinders. Private label requires minimum quantity of 50 pairs or 100 cams.

SHELF PISTONS

CP stocking pistons are made from premium 2618 aluminum forgings that are application specific. CP pistons feature CNC craftsmanship, made to only the highest tolerances, made using the highest quality materials. Each set includes pistons, 5100 series alloy wrist pins (9310 pin upgrade available for high HP use), ring pack with ductile iron plasma top rings, tapered second rings, low tension oil rings and spiral locks. Most shelf units are in stock and ready to ship.

PISTON #	ENGINE MAKE	BORE	COMPRESSION RATIO
CP7000	Honda B16A	81.0mm (STD)	9.0:1
CP7001	Honda B16A	81.5mm (+.020")	9.0:1
CP7100	Honda B16A	81.0mm (STD)	10.5:1
CP7101	Honda B16A	81.5mm (+.020")	10.5:1
CP7005	Acura B18A/B	81.0mm (STD)	9.0:1
CP7006	Acura B18A/B	81.5mm (+.020")	9.0:1
CP7105	Acura B18A/B	81.0mm (STD)	10.5:1
CP7106	Acura B18A/B	81.5mm (+.020")	10.5:1
CP7010	Honda/Acura B18C1	81.0mm (STD)	9.0:1
CP7011	Honda/Acura B18C1	81.5mm (+.020")	9.0:1
CP7014	Honda/Acura B18C1	82.0mm (+.040")	9.0:1
CP7012	Honda/Acura B18C1	83.0mm (+.080")	9.0:1
CP7015	Honda/Acura B18C1	81.0mm (STD)	9.8:1
CP7016	Honda/Acura B18C1	81.5mm (+.020")	9.8:1
CP7013	Honda/Acura B18C1	83.0mm (+.080")	9.8:1
CP7110	Honda/Acura B18C1	81.0mm (STD)	11.0:1
CP7111	Honda/Acura B18C1	81.5mm (+.020")	11.0:1
CP7113	Honda/Acura B18C1	82.0mm (+.040")	11.0:1
CP7112	Honda/Acura B18C1	83.0mm (+.080")	11.0:1
CP7115	Honda/Acura B18C1	81.0mm (STD)	12.5:1
CP7116	Honda/Acura B18C1	81.5mm (+.020")	12.5:1
CP7114	Honda/Acura B18C1	82.0mm (+.040")	12.5:1
CP7115X	Honda/Acura B18C1	81.0mm (STD)	12.5:1
CP7116X	Honda/Acura B18C1	81.5mm (+.020")	12.5:1
CP7135	Honda B18C5	81.0mm (STD)	11.5:1
CP7136	Honda B18C5	81.5mm (+.020")	11.5:1
CP7123X	Honda/Acura B Series	85.0mm (+.040")	+7.7cc
CP7124X	Honda/Acura B Series	86.0mm (+.080")	+7.7cc
CP7020	Honda/Acura B Series	84.0mm (STD)	9.0:1
CP7021	Honda/Acura B Series	84.5mm (+.020")	9.0:1
CP7022	Honda/Acura B Series	85.0mm (+.040")	9.0:1
CP7017	Honda/Acura B Series	84.0mm (STD)	9.7:1
CP7018	Honda/Acura B Series	84.5mm (+.020")	9.7:1
CP7019	Honda/Acura B Series	85.0mm (+.040")	9.7:1
CP7117	Honda/Acura B Series	84.0mm (STD)	11.5:1
CP7118	Honda/Acura B Series	84.5mm (+.020")	11.5:1
CP7119	Honda/Acura B Series	85.0mm (+.040")	11.5:1
CP7120	Honda/Acura B Series	84.0mm (STD)	12.5:1
CP7121	Honda/Acura B Series	84.5mm (+.020")	12.5:1
CP7122	Honda/Acura B Series	85.0mm (+.040")	12.5:1

SHELF (continued)

PISTON #	ENGINE MAKE	BORE	COMPRESSION RATIO
CP7060	Honda F20C	87.0mm (STD)	9.0:1
CP7061	Honda F20C	87.5mm (+.020")	9.0:1
CP7062	Honda F20C	88.0mm (+.040")	10.5:1
CP7040	Honda/Acura K20A/Z	86.0mm (STD)	9.0:1
CP70401	Honda/Acura K20A/Z	86.5mm (+.020")	9.0:1
CP70402	Honda/Acura K20A/Z	87.0mm (+.040")	9.0:1
CP70403	Honda/Acura K20A/Z	88.0mm (+.080")	9.0:1
CP70404	Honda/Acura K20A/Z	89.0mm (+.120")	9.0:1
CP7140	Honda/Acura K20A/Z	86.0mm (STD)	11.5:1
CP71401	Honda/Acura K20A/Z	86.5mm (+.020")	11.5:1
CP71402	Honda/Acura K20A/Z	87.0mm (+.040")	11.5:1
CP71403	Honda/Acura K20A/Z	88.0mm (+.080")	11.5:1
CP71404	Honda/Acura K20A/Z	89.0mm (+.120")	11.5:1
CP71405	Honda/Acura K20A/Z	90.0mm (+.160")	11.5:1
CP7142X	Honda/Acura K20A/Z	86.0mm (STD)	12.5:1
CP71421X	Honda/Acura K20A/Z	86.5mm (+.020")	12.5:1
CP71422X	Honda/Acura K20A/Z	87.0mm (+.040")	12.5:1
CP71423X	Honda/Acura K20A/Z	88.0mm (+.080")	12.5:1
CP71424X	Honda/Acura K20A/Z	89.0mm (+.120")	12.5:1
CP71425X	Honda/Acura K20A/Z	90.0mm (+.160")	12.5:1
CP7045	Honda K24 w/K20A	87.0mm (STD)	9.0:1
CP70451	Honda K24 w/K20A	87.5mm (+.020")	9.0:1
CP70452	Honda K24 w/K20A	88.0mm (+.040")	9.0:1
CP70453	Honda K24 w/K20A	89.0mm (+.080")	9.0:1
CP7145	Honda K24 w/K20A	87.0mm (STD)	11.5:1
CP71451	Honda K24 w/K20A	87.5mm (+.020")	11.5:1
CP71452	Honda K24 w/K20A	88.0mm (+.040")	11.5:1
CP71453	Honda K24 w/K20A	89.0mm (+.080")	11.5:1
CP71454	Honda K24 w/K20A	90.0mm (+.120")	11.5:1
CP7147X	Honda K24 w/K20A	87.0mm (STD)	12.5:1
CP71471X	Honda K24 w/K20A	87.5mm (+.020")	12.5:1
CP71472X	Honda K24 w/K20A	88.0mm (+.040")	12.5:1
CP71473X	Honda K24 w/K20A	89.0mm (+.080")	12.5:1
CP71474X	Honda K24 w/K20A	90.0mm (+.120")	12.5:1
CP7030	Honda H22	87.0mm (STD)	9.0:1
CP7031	Honda H22	87.5mm (+.020")	9.0:1
CP7034	Honda H22	88.0mm (+.040")	9.0:1
CP7130	Honda H22	87.0mm (STD)	10.0:1
CP7131	Honda H22	87.0mm (STD)	11.5:1
CP7032	Honda H23	87.5mm (+.020")	9.0:1
CP7500	Dodge SRT-4	87.5mm (STD)	8.5:1
CP7501	Dodge SRT-4	87.5mm (+.020")	8.5:1
CP7200	Mitsubishi 4G63 (1g)	85.5mm (+.020")	9.0:1
CP7202	Mitsubishi 4G63 (1g)	86.0mm (+.040")	9.0:1
CP7201	Mitsubishi 4G63 (2g)	85.5mm (+.020")	9.0:1
CP7203	Mitsubishi 4G63 (2g)	86.0mm (+.040")	9.0:1
CP7205	4G63(1g) -100mm stroke	85.5mm (+.020")	9.0:1
CP7207	4G63(1g) -100mm stroke	86.0mm (+.040")	9.0:1
CP7206	4G63(2g) -100mm stroke	85.5mm (+.020")	9.0:1
CP7208	4G63(2g) -100mm stroke	86.0mm (+.040")	9.0:1
CP7210	Mits 6G72 (3000GT)	91.8mm (+.030")	8.0:1
CP7211	Mits 6G72 (3000GT)	91.8mm (+.030")	9.0:1

SHELF (continued)

PISTON #	ENGINE MAKE	BORE	COMPRESSION RATIO
CP7299	Nissan KA24DE	89.0mm (STD)	9.0:1
CP7300	Nissan KA24DE	89.5mm (+.020")	9.0:1
CP7307	Nissan RB25DET	86.0mm (STD)	8.5:1
CP7308	Nissan RB25DET	86.5mm (+.020")	8.5:1
CP7309	Nissan RB26DETT	86.0mm (STD)	8.5:1
CP7310	Nissan RB26DETT	86.5mm (+.020")	8.5:1
CP7311	Nissan RB26DETT	87.0mm (+.040")	8.5:1
CP7320	Nissan SR20DE	86.5mm (+.020")	10.5:1
CP7321	Nissan SR20DE	87.0mm (+.040")	10.5:1
CP7324	Nissan SR20DET	86.0mm (STD)	9.0:1
CP7325	Nissan SR20DET	86.5mm (+.020")	9.0:1
CP7326	Nissan SR20DET	87.0mm (+.040")	9.0:1
CP7329	Nissan SR20DET	90.0mm (+.157")	9.0:1
CP73241	Nissan SR20DET	86.0mm (STD)	8.5:1
CP7327	Nissan SR20DET	86.5mm (+.020")	8.5:1
CP7328	Nissan SR20DET	87.0mm (+.040")	8.5:1
CP73291	Nissan SR20DET	90.0mm (+.157")	8.5:1
CP7330	Nissan VG30DE	87.5mm (+.020")	10.5:1
CP7335	Nissan VG30DETT	87.5mm (+.020")	8.5:1
CP7336	Nissan VG30DETT	88.0mm (+.040")	8.5:1
CP7337	Nissan VQ35DE	95.5mm (STD)	8.5:1
CP7338	Nissan VQ35DE	96.0mm (+.020")	8.5:1
CP73371	Nissan VQ35DE	95.5mm (STD)	11.0:1
CP73381	Nissan VQ35DE	96.0mm (+.020")	11.0:1
CP7400	Subaru EJ205 (WRX)	92.5mm (+.020")	8.5:1
CP7410	Subaru EJ25 (II)	100.0mm (+.020")	8.5:1
CP7420	Subaru EJ257 (STi)	99.5mm (STD)	8.2:1
CP7421	Subaru EJ257 (STi)	100mm (+.020")	8.2:1
CP7459	Toyota 2JZGTE	86.0mm (STD)	8.5:1
CP7460	Toyota 2JZGTE	86.5mm (+.020")	8.5:1
CP7461	Toyota 2JZGTE	87.0mm (+.040")	8.5:1
CP7449	Toyota 3SGTE	86.0mm (STD)	9.0:1
CP7450	Toyota 3SGTE	86.5mm (+.020")	9.0:1
CP7451	Toyota 3SGTE/5SFE	87.5mm (+.040")	8.5:1
CP7470	Toyota 7MGTE	84.0mm (+.040")	8.4:1

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STROKER/CUSTOM PISTONS

CP custom pistons are made to order with 2618 aluminum forgings that are application specific. Choose any desired bore size and compression ratio, as well as added features like 9310 alloy wrist pin upgrade (5100 series is standard), anti-detonation grooves, lateral and/or vertical gas ports, and chamfered pin boss. All customs include premium ring pack with ductile iron plasma top rings, tapered second rings, low tension oil rings and spiral locks. Custom pistons require 50% deposit prior to production.

PISTON #	ENGINE MAKE	BORE	COMPRESSION RATIO
BC7000	Popular 4 Cyl Appl	Specify	Specify
BC7001	Popular 4 Cyl w/9310 pins	Specify	Specify
BC7005	Popular 6 Cyl Appl	Specify	Specify
BC7006	Popular 6 Cyl w/9310 pins	Specify	Specify
BC7018	Honda B16 Stroker	Specify	Specify
BC7029	Honda B18/B20 Stroker	Specify	Specify
BC7039	Honda H22 Stroker	Specify	Specify
BC7048	Honda/Acura K20 Stroker	Specify	Specify
BC7049	Honda/Acura K24 Stroker	Specify	Specify
BC7069	Honda F20C/F22C Stroker	Specify	Specify
BC7109	Mitsubishi 4G63 Stroker	Specify	Specify
BC7110	Mitsubishi 4G64 Stroker	Specify	Specify
BC7209	Nissan SR20DE Stroker	Specify	Specify
BC7219	Nissan KA24DE Stroker	Specify	Specify
BC7229	Nissan VQ35DE w/9310	Specify	Specify
BC7239	Nissan RB26 w/9310 pins	Specify	Specify
BC7259	Nissan TB48 w/9310 pins	Specify	Specify
BC7309	Toyota 2JZGTE Stroker w/9310	Specify	Specify
BC7409	Ford 4.6L Stroker	Specify	Specify
BC7429	Ford 5.4L Stroker	Specify	Specify
BC7609	Subaru EJ205 Stroker	Specify	Specify
BC7629	Subaru EJ257 Stroker	Specify	Specify