

# 2010



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Horsepower solutions for: Honda b16/b18c, b19/b19b, k22/h22a, k20a, k20z, k20b3/k24a, f20c/f22c, c30a/c32a, Nissan sr20det, lsd24e, vb35de, vb35he, tb49, Toyota 2jzgte, 2jzge, 7mpte, 1jzgte/ge, 2azfe, 3azfe, Subaru ej205, ej257, Mitsubishi 4g63, 4g63 evo, 4b11t evo x, 6g72 and Dodge srt4.

**MASTER CATALOG**

## contents



### ENGINE MAKE

Honda/Acura B16A, B18C, B17A (DelSol, Integra, Civic Si) .....	1
Honda/Acura B18A, B18B, B20B (Integra, CR-V) .....	2
Honda H22, H22A (Prelude) .....	3
Honda/Acura K20A2, K20Z3, K24A2 (RSX-S, Civic Si, TSX) .....	4
Honda/Acura K20A3, K24A1, K24A4 (Civic Si, RSX, Accord) .....	5
Honda F20C, F22C (s2000) .....	6
Honda C30A/C32B (NSX) .....	7
Mitsubishi 4G63 (Eclipse) .....	8
Mitsubishi 4G63 (Evo VIII) .....	9
Mitsubishi 4G63 (Evo IX) .....	10
Mitsubishi 4B11T (Evo X) .....	11
Mitsubishi 6G72 (3000GT/Stealth) .....	12
Dodge SRT-4 (Neon) .....	13
Nissan SR20DE-T (S13, S14, S15 Silvia) .....	14
Nissan KA24DE (240SX) .....	15
Nissan/Infiniti VQ35DE (350z, G35) - 02' - 06' Non Rev-Up .....	16
Nissan/Infiniti VQ35HR (350z, G35) - 08' - Up .....	17
Nissan RB26/RB25 (Skyline) .....	18
Nissan TB48 (Patrol) .....	19
Nissan QR25 .....	20
Toyota 2JZGTE (Supra MK IV) .....	21
Lexus 2JZGE (IS300) .....	22
Toyota 1JZGTE/GE (Supra / Soarer) .....	23
Toyota 7MGTE (Supra MK III) .....	24
Toyota/Scion 2AZFE (tC, xB) .....	25
Toyota 3SGTE (Celica, MR2) .....	26
Toyota 1FZFE (LandCruiser) .....	27
Subaru EJ205 (WRX) .....	28
Subaru EJ257 (STi) .....	29
Subaru EJ257B Dual AVCS (STi) .....	30
Hyundai G6DA V6 .....	31
Crankshafts, Connecting Rods .....	32

HONDA CIVIC Si / ACURA INTEGRA

# b16a/b18c/b17a



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
<b>2</b> <b>STAGE Forced Induction Specification</b> Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0010.	<b>BC0011</b>	290°/292°	232°/234°	.465"/.450"	11.81/11.43	<b>BC0010</b>	12	5
		280°/284°	202°/200°	.322"/.307"	8.18/7.80		BTDC	ATDC
		108°	260°/262°	178°/180°	.206"/.190"	5.23/4.82	<b>BC0010S</b>	40
							ABDC	BBDC
<b>2</b> <b>STAGE Normally Aspirated Specification</b> 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.	<b>BC0012</b>	306°/300°	254°/248°	.472"/.472"	11.99/11.99	<b>BC0010</b>	29	18
		236°/232°	216°/214°	.364"/.351"	9.25/8.92		BTDC	ATDC
		102°	228°/226°	194°/192°	.264"/.252"	6.70/6.40	<b>BC0010S</b>	45
							ABDC	BBDC
<b>3</b> <b>STAGE Normally Aspirated Specification</b> Intended for fully built engine. Extensive modifications, high compression pistons and tuning recommended. Requires kit BC0010.	<b>BC0013</b>	310°/308°	260°/254°	.496"/.496"	12.60/12.60	<b>BC0010</b>	32	21
		256°/256°	220°/220°	.443"/.443"	11.25/11.25		BTDC	ATDC
		102°	256°/256°	220°/220°	.428"/.428"	10.87/10.87	<b>BC0010S</b>	48
							ABDC	BBDC
<b>USDM B16A2</b> ('99-'00)	Stock	280°/276°	219°/214°	.417"/.373"	10.59/9.47			
<b>USDM B18C1</b> ('94-'00)	Stock	290°/278°	230°/216°	.423"/.380"	10.74/9.65			
<b>JDM B16A</b> (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
<b>BC0010</b>	BC2010	BC2010	Ltd Street/Race Dual spring, titanium retainer
<b>BC0010S</b>	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.

## 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**).

KIT #	CRANK #	ROD #	PISTON #	BEARING #	DESCRIPTION
<b>BC0018</b>	BC5018	BC6028	BC7018	BC4020	84.5mm w/BC625+
<b>BC0019</b>	BC5018	BC6018	BC7018	BC4020	84.5mm w/Sportman
<b>BC0026</b>	BC5020	BC6040	BC7029	BC4020	92mm w/Long Rod
<b>BC0027</b>	BC5019	BC6040	BC7029	BC4020	95mm w/Long Rod
<b>BC0028</b>	BC5019	BC6029	BC7029	BC4020	95mm w/BC625+
<b>BC0029</b>	BC5019	BC6019	BC7029	BC4020	95mm w/Sportman
<b>BC0024</b>	BC5019	BC6017	BC7029	BC4020	95mm w/I Beam

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)

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

## 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
<b>BC3010</b>	33.0mm Intake (standard head diameter)
<b>BC3011</b>	28.0mm Exhaust (standard head diameter)
<b>BC3012</b>	33.5mm Intake (+.5mm head diameter)
<b>BC3013</b>	28.5mm Exhaust (+.5mm head diameter)
<b>BC3014</b>	34.0mm Intake (+1mm head diameter)
<b>BC3015</b>	29.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size.



PART #	DESCRIPTION
<b>BC8000</b>	M.I.D. - B16A - 84mm to 85mm Bore
<b>BC8000-1</b>	M.I.D. - B16A - 81mm to 85mm Bore
<b>BC8002</b>	M.I.D. - B16A - Drag Kit - 86mm to 87mm Max Bore
<b>BC8001</b>	M.I.D. - B18 Series - 84mm to 85mm Bore
<b>BC8001-1</b>	M.I.D. - B18 Series - 81mm to 85mm Bore w/Phosphate
<b>BC8003</b>	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

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

## 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
<b>BC0026</b>	BC5020	BC6048	BC7029	BC4020	92mm w/Long Rod
<b>BC0027</b>	BC5019	BC6048	BC7029	BC4020	95mm w/Long Rod
<b>BC0028</b>	BC5019	BC6029	BC7029	BC4020	95mm w/BC625+
<b>BC0029</b>	BC5019	BC6019	BC7029	BC4020	95mm w/Sportman
<b>BC0024</b>	BC5019	BC6017	BC7029	BC4020	95mm w/I Beam

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)

## 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
<b>BC3020</b>	31.0mm Intake (standard head diameter)
<b>BC3021</b>	28.0mm Exhaust (standard head diameter)
<b>BC3022</b>	31.5mm Intake (+.5mm head diameter)
<b>BC3023</b>	28.5mm Exhaust (+.5mm head diameter)

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size.



PART #	DESCRIPTION
<b>BC8001</b>	M.I.D. - B18 Series - 84mm to 85mm Bore
<b>BC8001-1</b>	M.I.D. - B18 Series - 81mm to 85mm Bore w/Phosphate
<b>BC8003</b>	M.I.D. - B18 Series - Drag Kit - 86mm to 87mm Max

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

# HONDA PRELUDE h22/h22a



## CAMSHAFTS

DESCRIPTION	CAM#	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
<b>2</b> <b>STAGE Forced Induction Specification</b> Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0030.	<b>BC0031</b>	304°/306°	233°/235°	.464"/.448"	11.78/11.38	<b>BC0030</b>	10.5   3.5 BTDC ATDC
		214°/216°	184°/192°	.324"/.312"	8.23/7.92	or	
		110°	210°/216°	176°/184°	.262"/.247"	6.65/6.27	<b>BC0030S</b>
<b>2</b> <b>STAGE Normally Aspirated Specification</b> Hot street/strip or road race specification. Use with CAI, H, E, ECU, A/F mods. Excellent street manners. Requires kit BC0030.	<b>BC0032</b>	312°/310°	255°/248°	.470"/.469"	11.94/11.91	<b>BC0030</b>	28.5   17 BTDC ATDC
		220°/220°	200°/198°	.325"/.308"	8.25/7.82	or	
		103°	216°/218°	198°/196°	.280"/.264"	7.11/6.70	<b>BC0030S</b>
<b>3</b> <b>STAGE Normally Aspirated Specification</b> Intended for fully built engine. Extensive modifications and tuning capabilities are highly recommended. Requires kit BC0030.	<b>BC0033</b>	318°/316°	263°/255°	.470"/.470"	11.94/11.94	<b>BC0030</b>	33.5   21.5 BTDC ATDC
		228°/226°	216°/212°	.360"/.354"	9.14/8.99	or	
		102°	224°/224°	198°/194°	.268"/.256"	6.80/6.50	<b>BC0030S</b>
<b>USDM H22A1</b> (94-96)	Stock	288°/308°	231°/234°	.448"/.415"	11.38/10.54		
<b>JDM H22</b> (92-96)	Stock	296°/300°	232°/228°	.456"/.420"	11.58/10.67		
<b>JDM H22A</b> (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
<b>BC0030</b>	BC1030	BC2010	Ltd Street/Race Dual spring, titanium retainer
<b>BC0030S</b>	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.

## 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
<b>BC0036</b>	BC5039	BC6038	BC7039	50mm w/BC625+
<b>BC0037</b>	BC5039	BC6039	BC7039	50mm w/Sportman
<b>BC0038</b>	BC5035	BC6038	BC7039	55mm w/BC625+
<b>BC0039</b>	BC5035	BC6039	BC7039	55mm w/Sportman

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)

## 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
<b>BC3030</b>	35.0mm Intake (standard head diameter)
<b>BC3031</b>	30.0mm Exhaust (standard head diameter)
<b>BC3034</b>	36.0mm Intake (+1mm head diameter)
<b>BC3035</b>	31.0mm Exhaust (+1mm head diameter)

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



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

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

# HONDA CIVIC Si / ACURA RSX-S, TSX k20a/k20z



## CAMSHAFTS

DESCRIPTION	CAM#	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
<b>2</b> <b>STAGE Forced Induction Specification</b> Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0040.	<b>BC0041</b>	296°/300°	222°/224°	.520"/.497"	13.21/12.62	<b>BC0040</b>	-   - BTDC ATDC
		248°/248°	182°/182°	.367"/.367"	9.32/9.32	<b>BC0040X</b>	-   - BTDC ATDC
		245°/245°	182°/182°	.325"/.325"	8.25/8.25	<b>BC0040S</b>	-   - ABDC BBDC
						<b>BC0040SX</b>	-   - ABDC BBDC
<b>2</b> <b>STAGE Normally Aspirated Specification</b> 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.	<b>BC0042</b>	304°/300°	234°/228°	.525"/.472"	13.34/11.99	<b>BC0040</b>	-   - BTDC ATDC
		252°/252°	186°/186°	.357"/.357"	9.07/9.07	<b>BC0040X</b>	-   - BTDC ATDC
		246°/246°	178°/178°	.313"/.313"	7.95/7.95	<b>BC0040S</b>	-   - ABDC BBDC
						<b>BC0040SX</b>	-   - ABDC BBDC
<b>3</b> <b>STAGE Normally Aspirated Race Spec</b> Intended for fully built engine. Extensive modifications, high compression pistons. Also works on K24 all motor. Req kit BC0040.	<b>BC0043</b>	314°/310°	244°/240°	.525"/.518"	13.34/13.15	<b>BC0040</b>	-   - BTDC ATDC
		256°/256°	190°/190°	.369"/.369"	9.37/9.37	<b>BC0040X</b>	-   - BTDC ATDC
		250°/250°	184°/184°	.323"/.323"	8.20/8.20	<b>BC0040S</b>	-   - ABDC BBDC
						<b>BC0040SX</b>	-   - ABDC BBDC
<b>4</b> <b>STAGE Normally Aspirated Race Spec</b> Intended for fully built engine. Extensive modifications, high compression pistons. Also works on K24 all motor. Req kit BC0040.	<b>BC0046</b>	324°/318°	255°/248°	.564"/.509"	14.32/12.93	<b>BC0040T</b>	-   - BTDC ATDC
		264°/260°	200°/200°	.370"/.370"	9.40/9.40		-   - BTDC ATDC
		262°/258°	198°/198°	.370"/.370"	9.40/9.40		-   - ABDC BBDC
<b>5</b> <b>STAGE Normally Aspirated Race Spec</b> Intended for fully built engine. Extensive modifications, high compression pistons. Also works on K24 all motor. Req kit BC0040.	<b>BC0047</b>	330°/322°	258°/258°	.570"/.516"	14.50/13.11	<b>BC0040T</b>	-   - BTDC ATDC
		276°/276°	228°/218°	.395"/.354"	10.03/8.99		-   - BTDC ATDC
		270°/270°	228°/218°	.395"/.354"	10.03/8.99		-   - ABDC BBDC

## 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.

KIT #	SPRING #	RETAINER #	SEAT #	DESCRIPTION
<b>BC0040</b>	BC1040	BC2010	BC2904	Dual spring, seat, titanium ret
<b>BC0040X</b>	BC1040	BC2011	BC2904	Dual spring, seat, steel retainer
<b>BC0040S</b>	BC1040	BC2010	No Seat	Dual spring, steel retainer
<b>BC0040SX</b>	BC1040T	BC2010	BC2904	High lift dual spring, ti retainer

Spring Pressure:  
 BC1040 Seat: 1.590" @ 80 lbs / Open: 1.110" @ 250 lbs / Coil Bind: 1.030" (no machine work required)  
 BC1040T Seat: 1.590" @ 80 lbs / Open: 1.020" @ 215 lbs / Coil Bind: 0.870" (no machine work required)

## 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
<b>BC0044</b>	BC5048	BC6058	BC7048	BC4020	92mm w/LW Rods
<b>BC0045</b>	BC5048	BC6048	BC7048	BC4020	92mm w/HD Rods
<b>BC0048</b>	BC5049	BC6059	BC7049	BC4020	102mm w/LW Rods
<b>BC0049</b>	BC5049	BC6049	BC7049	BC4020	102mm w/HD Rods

**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)

## 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.

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



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

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



# HONDA CIVIC Si, ACCORD / ACURA RSX k20a3/k24a



## CAMSHAFTS

DESCRIPTION	CAM#	ADV DURATION	DUR @ .65°	LIFT (inches)	LIFT (mm)	KT #	TIMING EVENTS
<b>2</b> <b>N/A Street &amp; Forced Induction</b> Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. Requires kit BC0050.	<b>BC0051</b>	284°/284°	193°/193°	.410"/.410"	10.41/10.41	<b>BC0050</b>	- -
						or	BTDC ATDC
						<b>BC0040</b>	- -
						<b>BC0040S</b>	ABDC BBDC
<b>3</b> <b>Normally Aspirated Race Spec</b> Hot street/strip or road race specification. Use with CAI, H, E, ECU, A/F mods. Excellent street manners. Requires kit BC0050.	<b>BC0052</b>	296°/284°	206°/193°	.429"/.410"	10.89/10.41	<b>BC0050</b>	- -
						or	BTDC ATDC
						<b>BC0040</b>	- -
						<b>BC0040S</b>	ABDC BBDC
<b>USDN K20A3</b> (Base RSX/Civic)	Stock	270°/276°	181°/173°	.372"/.383"	9.45/9.73		
<b>USDN K24A</b> (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.

KT #	SPRING #	RETAINER #	SEAT #	DESCRIPTION
<b>BC0050</b>	BC1050	BC2050		Single spring, titanium retainer
<b>BC0040</b>	BC1040	BC2010	BC2904	Dual spring, seat, titanium ret
<b>BC0040S</b>	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.

## 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).

KT #	CRANK #	ROD #	PISTON #	BEARING #	DESCRIPTION
<b>BC0044</b>	BC5048	BC6058	BC7048	BC4020	92mm w/LW Rods
<b>BC0045</b>	BC5048	BC6048	BC7048	BC4020	92mm w/HD Rods
<b>BC0048</b>	BC5049	BC6059	BC7049	BC4020	102mm w/LW Rods
<b>BC0049</b>	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)

## 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
<b>BC3040</b>	35.0mm Intake (standard head diameter)
<b>BC3041</b>	30.0mm Exhaust (standard head diameter)
<b>BC3042</b>	35.5mm Intake (+.5mm head diameter)
<b>BC3043</b>	30.5mm Exhaust (+.5mm head diameter)
<b>BC3044</b>	36.0mm Intake (+1mm head diameter)
<b>BC3045</b>	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, OS-up may require keeper number **BC2340**



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

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

# HONDA s2000 f20c/f22c



## CAMSHAFTS

DESCRIPTION	CAM#	ADV DURATION	DUR @ .65°	LIFT (inches)	LIFT (mm)	KT #	TIMING EVENTS
<b>2</b> <b>Forced Induction</b> Wide lobe separation profile for spirited driving. Delivers added cylinder pressure with short duration. OEM spring OK.	<b>BC0061T</b>	280°/276°	230°/226°	.500"/.466"	12.70/11.84	<b>BC0040</b>	- -
						or	BTDC ATDC
						<b>BC0040S</b>	- -
							ABDC BBDC
<b>2</b> <b>All Motor Street</b> Short duration profile builds cylinder pressure by reducing overlap, high lift for more air intake. OEM spring OK.	<b>BC0061</b>	310°/308°	232°/228°	.512"/.492"	13.00/12.50	<b>BC0040</b>	- -
						or	BTDC ATDC
						<b>BC0040S</b>	- -
							ABDC BBDC
<b>3</b> <b>Normally Aspirated Specification</b> Intended for fully built engine. Extensive mods, ECU tuning and high compression pistons are recommended. Requires kit BC0040.	<b>BC0062</b>	314°/310°	244°/240°	.525"/.518"	13.34/13.15	<b>BC0040</b>	- -
						or	BTDC ATDC
						<b>BC0040S</b>	- -
							ABDC BBDC
<b>USDN F20C</b> (s2000 '00-'03)	Stock	300°/298°	226°/222°	.476"/.439"	12.10/11.14		
<b>USDN F22C</b> (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.

KT #	SPRING #	RETAINER #	SEAT #	DESCRIPTION
<b>BC0040</b>	BC1040	BC2010	BC2904	Dual spring, seat, titanium ret
<b>BC0040S</b>	BC1040	BC2011	BC2904	Dual spring, seat, steel retainer
<b>BC0040X</b>	BC1040	BC2010	No Seat	Dual spring, titanium retainer
<b>BC0040SX</b>	BC1040	BC2011	No Seat	Dual spring, 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.

## 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.

KT #	CRANK #	ROD #	PISTON #	DESCRIPTION
<b>BC0068</b>	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.

## 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
<b>BC3060</b>	36.0mm Intake (standard head diameter)
<b>BC3061</b>	31.0mm Exhaust (standard head diameter)
<b>BC3064</b>	37.0mm Intake (+1mm head diameter)
<b>BC3065</b>	32.0mm Exhaust (+1mm head diameter)

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



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

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

# ACURA/HONDA NSX c30a/c32b



## STROKER KITS

The Acura/Honda NSX stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (84mm 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.

The BC stroker kit for the Acura NSX engine platform incorporates a 84 stroke, billet crank. Depending on bore size that you decide, the BC kit will take you up to a 3.44L with 94mm 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
<b>BC0098</b>	BC5099	BC6098	BC7099	84mm stroke w/Sportsman Rods
<b>BC0099</b>	BC5099	BC6099	BC7099	84mm stroke w/BC625+ Rods

Stock Specifications:  
C30A 90mm Bore x 78mm Stroke

### BC Stroker Specifications:

**3.44L 94mm Bore x 84mm 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.



PART #	DESCRIPTION
<b>BC8008</b>	M.I.D. - C30A/C32B - 93mm to 94mm Max Bore Sleeves come in sets of six. MID = Modular Integrated Deck

# MITSUBISHI ECLIPSE / EAGLE TALON 4G63



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 66°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0101</b>	272°/272°	212°/212°	.401"/.381"	10.18/9.66	<b>BC0100</b>	4 BTDC	-4 BTDC
			106°				28 ABDC	36 BBDC
<b>STAGE 3</b> <b>Race/Limited Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0100.	<b>BC0102</b>	280°/280°	218°/216°	.422"/.418"	10.71/10.60	<b>BC0100</b>	7 BTDC	-2 BTDC
			106°				31 ABDC	38 BBDC
<b>STAGE 4</b> <b>Full Race Specification</b> Huge valve lift profile designed for the serious racer. Extensive modifications and tuning necessary. Requires kit BC0100.	<b>BC0103</b>	288°/288°	222°/220°	.468"/.478"	11.88/12.14	<b>BC0100</b>	7 BTDC	-1 BTDC
			108°				35 ABDC	43 BBDC
<b>USD M 4G63 (Eclipse/Talon Turbo)</b>	Stock	248°/248°	200°/200°	.349"/.350"	8.86/8.89			
<b>USD M 4G63 (Eclipse Non Turbo)</b>	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
<b>BC0100</b>	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)

## 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
<b>BC0105</b>	BC5105	BC6104	BC7105	6 bolt w/BC625+
<b>BC0106</b>	BC5105	BC6105	BC7105	6 bolt w/Sportman
<b>BC0108</b>	BC5109	BC6108	BC7109	7 bolt w/BC625+
<b>BC0109</b>	BC5109	BC6109	BC7109	7 bolt w/Sportman
<b>BC0110</b>	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)

## STAINLESS STEEL VALVES

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

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

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size.



# MITSUBISHI EVOLUTION VIII

## 4g63



### CAMSHAFTS

DESCRIPTION	CAM#	ADV DURATION	DUR @ .65"	LIFT (inches)	LIFT (mm)	BC#	KIT #	TIMING EVENTS
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0111</b>  106°	272°/272°	206°/206°	.415"/.388"	10.54/9.86	<b>BC0100</b>	1	-7
							BTDC	BTDC
							25	33
							ABDC	BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0100.	<b>BC0112</b>  106°	280°/280°	218°/216°	.425"/.408"	10.80/10.36	<b>BC0100</b>	7	-2
							BTDC	BTDC
							31	38
							ABDC	BBDC
<b>STAGE 4</b> <b>Race Specification</b> Huge valve lift profile designed for the serious racer. Extensive modifications and tuning necessary. Requires kit BC0100.	<b>BC0113</b>  108°	288°/288°	222°/222°	.468"/.478"	11.88/12.14	<b>BC0100</b>	7	-1
							BTDC	BTDC
							35	43
							ABDC	BBDC
<b>USDM 4G63</b> (Evolution VIII)	Stock	248°/248°	200°/200°	.386"/.367"	9.80/9.32			
<b>USDM 4G63</b> (Evolution IX Mivec)	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
<b>BC0100</b>	BC2100	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)

### 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
<b>BC0108</b>	BC5109	BC6108	BC7109	7 bolt w/BC625+
<b>BC0109</b>	BC5109	BC6109	BC7109	7 bolt w/Sportman
<b>BC0110</b>	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)

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

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



# MITSUBISHI EVOLUTION IX

## 4g63



### CAMSHAFTS

DESCRIPTION	CAM#	ADV DURATION	DUR @ .65"	LIFT (inches)	LIFT (mm)	BC#	KIT #	TIMING EVENTS
<b>STAGE 2</b> <b>Street/Strip Specification</b> Map tuning necessary. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0121</b>  Mivec	272°/272°	206°/206°	.415"/.388"	10.54/9.86	<b>BC0100</b>	-	-
							BTDC	ATDC
							-	-
							ABDC	BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0100.	<b>BC0122</b>  Mivec	280°/280°	218°/216°	.425"/.408"	10.80/10.36	<b>BC0100</b>	-	-
							BTDC	ATDC
							-	-
							ABDC	BBDC
<b>STAGE 4</b> <b>Race Specification</b> Huge valve lift profile designed for the serious racer. Extensive modifications and tuning necessary. Requires kit BC0100.	<b>BC0123</b>  Mivec	288°/288°	222°/222°	.468"/.468"	11.88/12.14	<b>BC0100</b>	-	-
							BTDC	ATDC
							-	-
							ABDC	BBDC
<b>USDM 4G63</b> (Evolution IX Mivec)	Stock	256°/248°	206°/200°	.396"/.367"	10.05/9.32			

### 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
<b>BC0100</b>	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)

### 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
<b>BC0108</b>	BC5109	BC6108	BC7109	7 bolt w/BC625+
<b>BC0109</b>	BC5109	BC6109	BC7109	7 bolt w/Sportman
<b>BC0110</b>	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)

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

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





# MITSUBISHI EVOLUTION X 4b11t



## CAMSHAFTS

DESCRIPTION	CAM#	ADV DURATION	DUR @ 65°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
<b>STAGE 2 Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0131</b>	272°/272°	234°/223°	.445"/.419"	11.30/10.64	<b>BC0130</b>	-
							-
							-
<b>STAGE 3 Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0100.	<b>BC0132</b>	280°/280°	240°/234°	.470"/.445"	11.94/10.64	<b>BC0130</b>	-
							-
							-
<b>USDMM 4B11T</b> (Evolution X)	Stock	248°/248°	221°/193°	.382"/.338"	9.70/8.58		

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

## 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
<b>BC0130</b>	BC1130	BC2130	Single spring, titanium retainer

Spring Pressure:  
BC1130 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. Dishd head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
<b>BC3130</b>	34.0mm Intake (standard head diameter)
<b>BC3131</b>	30.5mm Exhaust (standard head diameter)
<b>BC3134</b>	35.0mm Intake (+1mm head diameter)
<b>BC3135</b>	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 4B11T stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (98mm 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.

The BC stroker kit for the Mitsubishi 4B11T engine platform incorporates a 98mm stroke crank. Depending on bore size that you decide, the BC kit will take you up to a 2.5L with a sleeved 90mm bore. The 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
<b>BC0138</b>	BC5139	BC6138	BC7139	BC625+ Cust Age
<b>BC0139</b>	BC5139	BC6139	BC7139	Sportman Rods

Stock Specifications:  
4B11 86mm Bore x 86mm Stroke - 9.055" Block Height

**BC Stroker Specifications:**  
**2.5L 90mm Bore x 98mm Stroke** (choice of bore/compression, 90mm bore w/ Darton sleeves)



PART #	DESCRIPTION
<b>BC8010</b>	M.I.D. - 4B11T - 86mm to 90mm Max Bore

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



# MITSUBISHI 3000GT/STEALTH 6g72



## CAMSHAFTS

DESCRIPTION	CAM#	ADV DURATION	DUR @ 65°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
<b>STAGE 2 Street/Strip Specification</b> Map tuning necessary. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0141</b>	272°/272°	212°/212°	.401"/.381"	10.18/9.66	<b>BC0140</b>	-
							-
							-
<b>STAGE 3 Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0100.	<b>BC0142</b>	280°/280°	218°/216°	.422"/.418"	10.71/10.60	<b>BC0140</b>	-
							-
							-
<b>STAGE 2 Performance Regrinds</b> An economical alternative to new cams, BC offers custom regrinds on OEM style cores. No core exchange required. Use OEM springs	<b>BC0145</b>	264°/264°	210°/210°	.365"/.365"	9.27/9.27	<b>Stock</b>	-
							-
							-
<b>USDMM 6G72</b>	Stock	256°/256°	200°/200°	.349"/.350"	8.89/8.89		

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

## 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
<b>BC0140</b>	BC1140	BC2140	Single spring, titanium retainer

Spring Pressure:  
BC1140 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. Dishd head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
<b>BC3140</b>	34.0mm Intake (standard head diameter)
<b>BC3141</b>	30.5mm Exhaust (standard head diameter)
<b>BC3142</b>	34.5mm Intake (+.5mm head diameter)
<b>BC3143</b>	31.0mm Exhaust (+.5mm head diameter)
<b>BC3144</b>	35.0mm Intake (+1mm head diameter)
<b>BC3145</b>	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 6G72 stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (84mm 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.

The BC stroker kit for the Mitsubishi 6G72 engine platform incorporates a 84mm stroke crank. Depending on bore size that you decide, the BC kit will take you up to a 3.4L with 92.63mm bore. The 6G72 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
<b>BC0148</b>	BC5149	BC6148	BC7149	BC625+ Cust Age
<b>BC0149</b>	BC5149	BC6149	BC7149	Sportman Rods

Stock Specifications:  
6G72 91.11mm Bore x 76mm Stroke - 8.287" Block Height

**BC Stroker Specifications:**  
**3.4L 92.63mm Bore x 84mm Stroke** (choice of bore and minimum compression of 8.5:1)



# DODGE NEON / DSM srt-4



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
Cold Valve Lash: .000" int / .000" exh							
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0161</b>	264°/264°	186°/184°	.350"/.310"	8.89/7.87	<b>BC0159</b>	-11   -20 ATDC BTDC 17   24 ABDC BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0159.	<b>BC0162</b>	272°/272°	194°/186°	.389"/.383"	9.88/9.73	<b>BC0159</b>	-7   -19 ATDC BTDC 21   25 ABDC BBDC
<b>STAGE 4</b> <b>Race Specification</b> Big duration and more lift for larger turbos. Derived from popular "118" specs. Requires kit BC0159	<b>BC0163</b>	280°/280°	212°/213°	.399"/.399"	10.13/10.13	<b>BC0159</b>	-2   -9.5 ATDC BTDC 34   42.5 ABDC BBDC
<b>USDM SRT-4 (Neon)</b>	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
<b>BC0160</b>	BC1100	BC2160	Single Groove Keeper	Single spring, titanium retainer
<b>BC0159</b>	BC1100	BC2159	Triple Groove Keeper	Single spring, titanium retainer

Spring Pressure:  
BC1100 Seat: 1.500" @ 92 lbs / Oper: 1.100" @ 210 lbs / Coil Bind: 0.920" (when used with BC2160 retainer)  
BC1100 Seat: 1.550" @ 84 lbs / Oper: 1.100" @ 204 lbs / Coil Bind: 0.970" (when used with BC2159 retainer)



## 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	FE BORE	ARP BOLT
<b>BC6168</b>	5.945"	2.086"	1.031"	0.866"	Cust Age 625+
<b>BC6169</b>	5.945"	2.086"	1.031"	0.866"	ARP2000



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

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



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	PN BORE	DESCRIPTION
<b>CP7500</b>	87.5mm	Standard	8.5:1	0.866"	Turbo
<b>CP7501</b>	88mm	+5mm/.020"	8.5:1	0.866"	Turbo

# NISSAN S13 & S14/S15 sr20de(t)



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
Cold Valve Lash: .000" int / .000" exh							
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0201 (S13)</b> <b>BC0205 (S14)</b>	264°/264°	216°/216°	.475"/.475"	12.06/12.06	<b>BC0200</b>	-   - BTDC ATDC -   - ABDC BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile for added rpm. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0200.	<b>BC0202 (S13)</b> <b>BC0206 (S14)</b>	272°/272°	224°/224°	.494"/.494"	12.55/12.55	<b>BC0200</b>	-   - BTDC ATDC -   - ABDC BBDC
<b>JDM SR20DET (S14 Black Top)</b>	Stock	248°/248°	191°/191°	.370"/.370"	9.40/9.40		
<b>JDM SR20DET (S13 Red Top)</b>	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
<b>BC0200</b>	BC1200	BC2200	Single spring, titanium retainer

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

## 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 lockers. Big time horsepower and torque gains.

KIT #	CRANK #	ROD #	PISTON #	DESCRIPTION
<b>BC0208</b>	BC5209	BC6208	BC7209	w/BC625+ Rods
<b>BC0209</b>	BC5209	BC6209	BC7209	w/Sportsman
<b>BC0207</b>	BC5209	BC6207	BC7209	w/I Beam Rods

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 hp/wheel horsepower, highly recommend BC625+ rods (kit BC6208).  
Crankshafts, connecting rods and pistons with all hardware are sold separately.

## 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
<b>BC3200</b>	34.15mm Intake (standard head diameter) - FWD/RWD
<b>BC3201</b>	30.15mm Exhaust (standard head diameter) - FWD
<b>BC3202</b>	34.65mm Intake (+.5mm head diameter) - FWD/RWD
<b>BC3204</b>	35.15mm Intake (+1mm head diameter) - FWD/RWD
<b>BC3205</b>	31.15mm Exhaust (+1mm head diameter) - FWD
<b>BC3207</b>	30.15mm Exhaust (standard head diameter) - RWD
<b>BC3208</b>	30.65mm Exhaust (+.5mm head diameter) - RWD
<b>BC3209</b>	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. FWD exh features 7mm stem tapered to 6mm tip.



PART #	DESCRIPTION
<b>BC8020</b>	SR20 Series - 86mm to 90mm Bore

Sleeves come in sets of four.



# 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	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0211</b>	264°/264°	218°/218°	.375"/.375"	9.52/9.52	<b>BC0210</b>	-1	-9
							BTDC	BTDC
							39	47
							ABDC	BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0210.	<b>BC0212</b>	272°/272°	226°/226°	.401"/.401"	10.19/10.19	<b>BC0210</b>	3	-5
							BTDC	BTDC
							43	51
							ABDC	BBDC
<b>USDN KA24DE (240SX)</b>	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
<b>BC0210</b>	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
<b>BC3210</b>	37.10mm Intake (+.5mm head diameter)
<b>BC3211</b>	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
<b>BC0218</b>	BC5219	BC6218	BC7219	w/BC625+ Rods
<b>BC0219</b>	BC5219	BC6219	BC7219	w/Sportsman

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.**



# 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	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0221</b>	264°/264°	222°/222°	.426"/.426"	10.82/10.82	<b>BC0220</b>	-	-
							BTDC	ATDC
							39	47
							ABDC	BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0220.	<b>BC0222</b>	272°/272°	234°/234°	.459"/.459"	11.59/11.59	<b>BC0220</b>	-	-
							BTDC	ATDC
							43	51
							ABDC	BBDC
<b>VQ35DE (Nissan 350Z)</b>	Stock	256°/256°	208°/208°	.375"/.375"	9.52/9.52			
<b>VQ35DE (Infiniti G35)</b>	Stock	258°/256°	210°/208°	.378"/.375"	9.60/9.52			

Bucket Diameter: 1.200"

Fits 2003-06, 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
<b>BC0220</b>	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
<b>BC3220</b>	37.0mm Intake (standard head diameter)
<b>BC3221</b>	31.0mm Exhaust (standard head diameter)
<b>BC3224</b>	38mm Intake (+1mm head diameter)
<b>BC3225</b>	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 (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 86.4mm stroke, billet crank. Depending on bore size that you decide, the BC kit will take you up to a 4.07L 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
<b>BC0225</b>	BC5225	BC6228	BC7229	86.4mm stroke w/BC625+ Rods
<b>BC0226</b>	BC5225	BC6229	BC7229	86.4mm stroke w/Sportsman

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.**



PART #	DESCRIPTION
<b>BC8022</b>	M.I.D. - VQ35DE - 95mm to 100mm Max Bore Sleeves come in sets of six. MID = Modular Integrated Deck

# NISSAN 350Z / INFINITI G35 vq35/37hr



## STROKER KITS

The Nissan/Infiniti VQ35HR and VQ37HR stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (86.4mm or 92mm 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.

The BC stroker kit for the Nissan VQ35/37HR engine platform incorporates a 86.4mm or 92mm stroke, billet crank. Depending on bore size that you decide, the BC kit will take you up to a 4.34L 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
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<b>BC0227</b>	BC5227	BC6226	BC7229	86.4mm stroke w/BC625+ Rods
<b>BC0228</b>	BC5227	BC6227	BC7229	86.4mm stroke w/Sportsman Rods
<b>BC0229</b>	BC5229	BC6227	BC7228	92mm stroke w/Sportsman Rods

Stock Specifications:  
VQ35 95.5mm Bore x 81.4mm Stroke - 8.770" Block Height

**BC Stroker Specifications:**  
4.34L 100mm Bore x 92mm Stroke (choice of bore and minimum compression of 9:1 to 14:1)  
4.07L 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.**



PART #	DESCRIPTION
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**BC8021** M.I.D. - VQ35HR - 95mm to 100mm Max Bore  
Sleeves come in sets of six. MID = Modular Integrated Deck

# NISSAN SKYLINE rb26dett



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 165°	LIFT (inches)	LIFT (mm)	KIT #	COLD VALVE LASH: .008" int / .010" exh	TIMING EVENTS
<b>STAGE 2 Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. Req kit BC0230.	<b>BC0231</b>	264°/264°	220°/220°	.400"/.400"	10.16/10.16	<b>BC0230</b>	-	-
	114°						BTDC	BTDC
							ABDC	BBDC
<b>STAGE 3 Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0230.	<b>BC0232</b>	272°/272°	234°/234°	.425"/.425"	10.80/10.80	<b>BC0230</b>	-	-
	114°						BTDC	BTDC
							ABDC	BBDC
<b>RB26DET</b> (Nissan Skyline)	Stock	256°/256°	205°/210°	.325"/.336"	8.25/8.53			

Bucket Diameter: 1.220"

## 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
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**BC0230** BC1230 BC2230 Single spring, titanium retainer  
Spring Pressure:  
BC1230 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
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**BC3230** Stainless Intake Valves (set/12) - (Std - 34.65mm).  
**BC3231** Stainless Exhaust Valves (set/12) - (Std - 30.15mm).  
**BC3234** Stainless Intake Valves (set/12) - (+1mm - 35.65mm).  
**BC3235** Stainless Exhaust Valves (set/12) - (+1mm - 31.15mm).

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

## 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 ring
- 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
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<b>BC0238</b>	BC5239	BC6238	BC7239	BC625+ Rods
<b>BC0239</b>	BC5239	BC6239	BC7239	Sportsman Rods

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
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**BC8023** RB26 - 87mm to 87.5mm Max Bore  
Sleeves come in sets of six.

# NISSAN PATROL 4.8L tb48



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 160°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	Cold Valve Lash: .008" int / .010" exh	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0251</b>	264°/264°	230°/222°	.406"/.401"	10.31/10.19	<b>BC0250</b>	5	-7	
							BTDC	BTDC	
							45	49	
ABDC	BBDC								
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0250.	<b>BC0252</b>	272°/272°	234°/230°	.406"/.425"	10.31/10.79	<b>BC0250</b>	7	-3	
							BTDC	BTDC	
							47	53	
ABDC	BBDC								
<b>TB48</b> (Nissan Patrol)	Stock	256°/256°	214°/206°	.392"/.376"	9.95/9.55				

Bucket Diameter: 1.200"

# NISSAN SENTRA/ALTIMA qr25



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 160°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	Cold Valve Lash: .008" int / .010" exh	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0261</b>	264°/256°	230°/221°	.424"/.399"	10.77/10.13	<b>BC0260</b>	5	-7	
							BTDC	BTDC	
							45	49	
ABDC	BBDC								
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0260.	<b>BC0262</b>	272°/264°	238°/228°	.430"/.410"	10.92/10.41	<b>BC0260</b>	7	-3	
							BTDC	BTDC	
							47	53	
ABDC	BBDC								
<b>QR25</b> (Nissan Sentra)	Stock	256°/256°	214°/194°	.406"/.340"	10.31/8.64				

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
<b>BC0250</b>	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. Dishd head for added weight savings and increased valve control at high rpm. Standard and oversize head.

PART #	DESCRIPTION
<b>BC3250</b>	Stainless Intake Valves (set/12) - (Std - 38.5mm).
<b>BC3251</b>	Stainless Exhaust Valves (set/12) - (Std - 33.5mm).
<b>BC3252</b>	Stainless Intake Valves (set/12) - (+1mm - 39.5mm).
<b>BC3253</b>	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 sold separately.
- 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 #	DESCRIPTION
<b>BC0259</b>	BC5259	BC6258	BC7259	108mm stroke w/ beam rods

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.**



## 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
<b>BC0260</b>	BC1260	BC22216	Single spring, titanium retainer

Spring Pressure:  
BC1260 Seat: 1.350" @ 60 lbs / Open: 0.900" @ 170 lbs / Coil Bind: 0.815" (no machine work required)



# TOYOTA SUPRA MK IV 2jzgte



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 60°	LIFT (inches)	LIFT (mm)	KT #	TIMING EVENTS
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0301</b>	264°/264°	218°/222°	.375"/.375"	9.52/9.52	<b>BC0300</b>	0 -8 ATDC BTDC 40 48 ABDC BBDC
		114°					
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0300.	<b>BC0302</b>	272°/272°	228°/232°	.375"/.380"	9.52/9.65	<b>BC0300</b>	3 -5 ATDC BTDC 43 51 ABDC BBDC
		114°					
<b>STAGE 4</b> <b>Full Race Specification</b> Giant lift profile for ultimate cylinder fill rates. Intended for full race motor running race fuel. Requires kit BC0300.	<b>BC0303</b>	280°/280°	232°/232°	.452"/.452"	11.48/11.48	<b>BC0300</b>	6 -2 ATDC BTDC 46 54 ABDC BBDC
		114°					
<b>2JZGTE</b> (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
<b>BC0300</b>	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)

## 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+ or Carrillo)
- 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
<b>BC0309</b>	BC5309	BC6309	BC7309	BC625+ Rod
<b>BC0308</b>	BC5309	CA6308	BC7309	Carrillo Rod

Stock Specifications:

2JZGTE 86mm Bore x 86mm Stroke - 8.620" Block Height

For LightWeight crank (8 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.**

## 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
<b>BC3300</b>	33.6mm Intake (standard head diameter)
<b>BC3301</b>	29.0mm Exhaust (standard head diameter)
<b>BC3304</b>	34.1mm Intake (+.5mm head diameter)
<b>BC3305</b>	29.5mm Exhaust (+.5mm head diameter)
<b>BC3302</b>	34.6mm Intake (+1mm head diameter)
<b>BC3303</b>	30.0mm Exhaust (+1mm head diameter)

Specify one set intake, one set exhaust when ordering.

Valve guides vary and may require honing to size.



# LEXUS IS300 2jzge



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 60°	LIFT (inches)	LIFT (mm)	KT #	TIMING EVENTS
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0311</b>	264°/264°	218°/218°	.344"/.344"	8.74/8.74	<b>BC0300</b>	- - BTDC ATDC - - ABDC BBDC
		114°					
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0300.	<b>BC0312</b>	272°/272°	229°/231°	.375"/.380"	9.52/9.65	<b>BC0300</b>	- - BTDC ATDC - - ABDC BBDC
		114°					
<b>2JZGE</b> (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
<b>BC0300</b>	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
<b>BC3300</b>	33.6mm Intake (standard head diameter)
<b>BC3301</b>	29.0mm Exhaust (standard head diameter)
<b>BC3304</b>	34.1mm Intake (+.5mm head diameter)
<b>BC3305</b>	29.5mm Exhaust (+.5mm head diameter)
<b>BC3302</b>	34.6mm Intake (+1mm head diameter)
<b>BC3303</b>	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
<b>BC0309</b>	BC5309	BC6309	BC7309	BC625+ Rod
<b>BC0308</b>	BC5309	CA6308	BC7309	Carrillo Rod

Stock Specifications:

2JZGE 86mm Bore x 86mm Stroke - 8.620" Block Height

For LightWeight crank (8 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.**



# TOYOTA SUPRA / SOARER 1jzgte/ge



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 60°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0331</b>	264°/264°	218°/218°	.344"/.344"	8.74/8.74	<b>BC0300</b>	-1	-9
							ATDC	BTDC
							39	47
	114°						ABDC	BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0300.	<b>BC0332</b>	272°/272°	229°/231°	.375"/.380"	9.52/9.65	<b>BC0300</b>	4.5	-2.5
							BTDC	BTDC
							44.5	53.5
	114°						ABDC	BBDC
<b>1JZGE</b> (Toyota Soarer)	Stock	248°/248°	200°/194°	.337"/.327"	8.56/8.31			

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

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

# TOYOTA SUPRA MK III 7mgte



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 60°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0321</b>	264°/264°	220°/220°	.336"/.336"	8.53/8.53	<b>BC0320</b>	-	-
							BTDC	ATDC
							-	-
							ABDC	BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0320.	<b>BC0322</b>	272°/272°	226°/226°	.342"/.342"	8.68/8.68	<b>BC0320</b>	-	-
							BTDC	ATDC
							-	-
							ABDC	BBDC
<b>USD 7MGTE</b> ('87-'92 MKIII)	Stock	256°/256°	201°/201°	.297"/.297"	7.54/7.54			

Bucket Diameter: 0.980"

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

## 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
<b>BC0300</b>	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
<b>BC3300</b>	33.6mm Intake (standard head diameter)
<b>BC3301</b>	29.0mm Exhaust (standard head diameter)
<b>BC3304</b>	34.1mm Intake (+.5mm head diameter)
<b>BC3305</b>	29.5mm Exhaust (+.5mm head diameter)
<b>BC3302</b>	34.6mm Intake (+1mm head diameter)
<b>BC3303</b>	30.0mm Exhaust (+1mm head diameter)

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



## 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
<b>BC0320</b>	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
<b>BC3322</b>	32.5mm Intake (+.5mm head diameter)
<b>BC3323</b>	28mm Exhaust (+.5mm head diameter)
<b>BC3324</b>	33mm Intake (+1mm head diameter)
<b>BC3325</b>	28.5mm Exhaust (+1mm head diameter)



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
<b>BC6319</b>	Custom	Custom	Custom	Custom	Specify



## 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-T-O-C	BE BORE	BE WIDTH	FE BORE	BOLTS
<b>BC6328</b>	5.980"	2.166"	0.977"	0.866"	Custom Age 625+
<b>BC6329</b>	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
<b>CP7470</b>	84mm	+1mm	8.4:1	0.866"	Turbo

# SCION tC / xB 2azfe



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 155°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
<b>STAGE 2 Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0341</b>	264°/256°	218°/214°	.385"/.363"	9.78/9.22	<b>BC0340</b>	- - BTDC BTDC - - ABDC BBDC
<b>STAGE 2 Forced Induction Specification</b> Plug and play application. Short duration for turbo/supercharger with added lobe lift. Requires BC0340 valve spring/retainer kit.	<b>BC0341T</b>	272°/272°	222°/222°	.401"/.401"	10.19/10.19	<b>BC0340</b>	- - BTDC BTDC - - ABDC BBDC
<b>STAGE 3 Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0210.	<b>BC0342</b>	280°/272°	229°/222°	.415"/.401"	10.54/10.19	<b>BC0340</b>	- - BTDC BTDC - - ABDC BBDC
<b>USDM 2AZFE (tC)</b>	Stock	248°/240°	212°/200°	.385"/.355"	9.78/9.02		

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
<b>BC0340</b>	BC1600	BC2340	BC2930	Single spring, ti retainer/seat

Spring Pressure:  
BC1600 Seat: 1.300" @ 82 lbs / Open: 0.900" @ 188 lbs / Coil Bind: 0.810" (no machine work required)  
Maximum lift on stock valve springs is .385".

## 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
<b>BC3340</b>	34.15mm Intake (standard head diameter)
<b>BC3341</b>	29.15mm Exhaust (standard head diameter)
<b>BC3342</b>	34.65mm Intake (+.5mm head diameter)
<b>BC3343</b>	29.65mm Exhaust (+.5mm head diameter)
<b>BC3344</b>	35.15mm Intake (+1mm head diameter)
<b>BC3345</b>	30.15mm 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 2AZFE 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.

The BC stroker kit for the Scion 2AZFE engine platform incorporates a 102mm stroke crankshaft. Depending on bore size that you decide, the BC kit will take you up to a 2.61L with 90mm bore. The 2AZFE 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
<b>BC0348</b>	BC5349	BC6348	BC7349	w/BC625+ Rods
<b>BC0349</b>	BC5349	BC6349	BC7349	w/Sportsman

Stock Specifications:  
2AZFE 88.5mm Bore x 96mm Stroke - 9.094" Block Height

**BC Stroker Specifications:**

**2.61L 90mm 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.



# TOYOTA CELICA / MR2 3sgte



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ 155°	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS
<b>STAGE 2 Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0351</b>	264°/264°	216°/216°	.344"/.344"	8.74/8.74	<b>BC0600</b> or <b>BC0350</b>	- - BTDC ATDC - - ABDC BBDC
<b>STAGE 3 Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires shim under bucket.	<b>BC0352</b>	272°/272°	222°/222°	.400"/.400"	10.16/10.16	<b>BC0600</b> or <b>BC0350</b>	- - BTDC ATDC - - ABDC BBDC
<b>USDM 3SGTE (MR2)</b>	Stock	248°/248°	204°/204°	.335"/.335"	8.51/8.51		

Bucket Diameter: 1.220"



## 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
<b>BC0600</b>	BC1600	BC2300-16	Shim over bucket or shimless
<b>BC0350</b>	BC1600	BC2351	Shim under bucket use only

Spring Pressure:  
BC1600 Seat: 1.325" @ 60 lbs / Open: 0.950" @ 153 lbs / Coil Bind: 0.880" (no machine work required)  
More: Retainer will not work with shim under bucket setup. Use valve spring only.

## 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
<b>BC3350</b>	33.5mm Intake (standard head diameter)
<b>BC3351</b>	29mm Exhaust (standard head diameter)
<b>BC3354</b>	33mm Intake (+.5mm head diameter)
<b>BC3355</b>	28.5mm Exhaust (+.5mm head diameter)



## 4340 STEEL BILLET RODS

Built from rugged 4340 billet steel, BC rods for the 7MGTG 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-T-O-C	BE BORE	BE WIDTH	FE BORE	BOLTS
<b>BC6350</b>	5.410"	2.008"	1.053"	0.866"	Cust Age 625+
<b>BC6351</b>	5.410"	2.008"	1.053"	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	PN BORE	DESCRIPTION
<b>CP7449</b>	86mm	Std	9.0:1	0.866"	Turbo
<b>CP7450</b>	86.5mm	+5mm	9.0:1	0.866"	Turbo
<b>CP7453</b>	87mm	+1mm	9.0:1	0.866"	Turbo
<b>CP7451</b>	87.5mm	+1.5mm	8.5:1	0.866"	Turbo



# TOYOTA LANDCRUISER 1fzfe

## STROKER KITS

The Toyota Landcruiser 1FZFE stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (101mm 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 sold separately.
- Fully system balanced and ready to install.

The BC stroker kit for the Toyota LandCruiser 1FZFE engine platform incorporates a 101mm stroke, steel billet crank. Depending on bore size that you decide, the BC kit will take you up to a 5.0L with 102mm 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
<b>BC0358</b>	BC5355	BC6357	BC7359	101mm stroke w/l beam rods
<b>BC0359</b>	BC5355	BC6359	BC7359	101mm stroke w/l beam rods

Stock Specifications:

1FZFE 95mm Bore x 100mm Stroke

**BC Stroker Specifications:**

**5.00L 102mm Bore x 101mm Stroke** (choice of bore and minimum compression of 9:1 to 14:1)

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



# SUBARU WRX ej205

## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	TIMING EVENTS	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0601</b>	272°/272°	220°/220°	400°/400°	10.16/10.16	<b>BC0600</b>	0 BTDC	-8 BTDC
	114°						40 ABDC	48 BBDC
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0600.	<b>BC0602</b>	280°/280°	234°/234°	410°/410°	10.80/10.80	<b>BC0600</b>	7 BTDC	-1 BTDC
	114°						47 ABDC	55 BBDC
<b>USDJ EJ205</b> ('02-'04 WRX)	Stock	256°/256°	205°/205°	.365°/.361°	9.27/9.17			
<b>JDM EJ207</b>	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
<b>BC0600</b>	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
<b>BC3600</b>	36.0mm Intake (standard head diameter)
<b>BC3601</b>	32.0mm Exhaust (standard head diameter)
<b>BC3604</b>	37.0mm Intake (+1mm head diameter)
<b>BC3605</b>	33.0mm 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 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
<b>BC0608</b>	BC5609	BC6608	BC7609	w/BC625+ Rods
<b>BC0609</b>	BC5609	BC6609	BC7609	w/Sportsman

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
<b>BC8060</b>	EJ20 (WRX) - 92mm to 96mm Max Bore

Sleeves come in sets of four.

# SUBARU STI ej257



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	Cold Valve Lash: .006" int / .008" exh	
							TIMING EVENTS	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0621</b>	272°/272°	220°/220°	.400"/.400"	10.16/10.16	<b>BC0600</b>	-	-
	114°						-	-
							-	-
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0600.	<b>BC0622</b>	280°/280°	234°/234°	.410"/.410"	10.41/10.41	<b>BC0600</b>	-	-
	114°						-	-
							-	-
<b>USDM EJ257</b> ('05-up STI)	Stock	256°/256°	204°/208°	.378"/.385"	9.60/9.78			
<b>JDM EJ254</b>	Stock	256°/256°	211°/209°	.374"/.371"	9.50/9.42			

Bucket Diameter: 1.220"

The above cams work with AVCS on intake camshafts.

## 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
<b>BC0600</b>	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
<b>BC3620</b>	36.0mm Intake (standard head diameter)
<b>BC3621</b>	32.0mm Exhaust (standard head diameter)
<b>BC3624</b>	37.0mm Intake (+1mm head diameter)
<b>BC3625</b>	33.0mm 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 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
<b>BC0628</b>	BC5629	BC6608	BC7629	w/BC625+ Rods
<b>BC0629</b>	BC5629	BC6609	BC7629	w/Sportsman

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
<b>BC8062</b>	EJ25 (STI) - 99.5mm to 102mm Max Bore

Sleeves come in sets of four.

# SUBARU STi w/Dual AVCS ej257b



## CAMSHAFTS

DESCRIPTION	CAM #	ADV DURATION	DUR @ .050"	LIFT (inches)	LIFT (mm)	KIT #	Cold Valve Lash: .006" int / .008" exh	
							TIMING EVENTS	
<b>STAGE 2</b> <b>Street/Strip Specification</b> Plug and play application. Short duration for nice street manners, slight lobe at idle. Excellent all purpose spec. OEM spring OK.	<b>BC0623</b>	272°/272°	220°/220°	.400"/.400"	10.16/10.16	<b>BC0600</b>	-	-
	114°						-	-
							-	-
<b>STAGE 3</b> <b>Race Specification</b> Longer duration profile, added rpm potential. Intended for fully built engine. Tuning and ECU mods recommended. Requires kit BC0600.	<b>BC0624</b>	280°/280°	234°/234°	.410"/.410"	10.41/10.41	<b>BC0600</b>	-	-
	114°						-	-
							-	-
<b>USDM EJ257</b> ('05-up STI)	Stock	256°/256°	204°/208°	.378"/.385"	9.60/9.78			
<b>JDM EJ254</b>	Stock	256°/256°	211°/209°	.374"/.371"	9.50/9.42			

Bucket Diameter: 1.220"

The above cams work with dual AVCS on intake and exhaust camshafts.

## 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
<b>BC0600</b>	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
<b>BC3620</b>	36.0mm Intake (standard head diameter)
<b>BC3621</b>	32.0mm Exhaust (standard head diameter)
<b>BC3624</b>	37.0mm Intake (+1mm head diameter)
<b>BC3625</b>	33.0mm 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 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
<b>BC0628</b>	BC5629	BC6608	BC7629	w/BC625+ Rods
<b>BC0629</b>	BC5629	BC6609	BC7629	w/Sportsman

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
<b>BC8062</b>	EJ25 (STI) - 99.5mm to 102mm Max Bore

Sleeves come in sets of four.

# HYUNDAI GENESIS V6

# g6da



## STROKER KITS

The Hyundai G6DA V6 stroker kit from Brian Crower features:

- BC 4340 billet steel crankshaft (93mm 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.

The BC stroker kit for the Hyundai G6DA engine platform incorporates a 93 stroke, billet crank. Depending on bore size that you decide, the BC kit will take you up to a 4.21L with 98mm 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
<b>BC0508</b>	BC5509	BC6508	BC7509	93mm stroke w/BC625+ Rods
<b>BC0509</b>	BC5099	BC6509	BC7509	93mm stroke w/Sportsman Rods

Stock Specifications:  
G6DA 93mm Bore x 86mm Stroke

**BC Stroker Specifications:**  
**4.21L 98mm Bore x 93mm 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.**



PART #	DESCRIPTION
<b>BC8050</b>	M.I.D. - G6DA - 98mm to 99mm Max Bore Sleeves come in sets of six. MID = Modular Integrated Deck



## 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. \*Indicates rod not OEM spec.

ROD #	ENGINE MAKE	C-TO-C	BE BORE	BE WIDTH	PE BORE	PE WIDTH
<b>BC6018</b>	Honda B16A - bROD	5.290"	1.890"	0.935"	0.827"	0.710"
<b>BC6028</b>	Honda B16A - 625+	5.290"	1.890"	0.935"	0.827"	0.710"
<b>BC6026</b>	Acura B18C - bROD	5.433"	1.890"	0.858"	0.827"	0.710"
<b>BC6025</b>	Acura B18C - 625+	5.433"	1.890"	0.858"	0.827"	0.710"
<b>BC6019</b>	Acura B18A/B - bROD	5.394"	1.890"	0.935"	0.827"	0.710"
<b>BC6029</b>	Acura B18A/B - 625+	5.394"	1.890"	0.935"	0.827"	0.710"
<b>BC6038</b>	Honda H22 - 625+	5.636"	2.008"	0.935"	0.866"	0.900"
<b>BC6039</b>	Honda H22 - bROD	5.636"	2.008"	0.935"	0.866"	0.900"
<b>BC6044</b>	Honda K20A/Z - 625+	5.473"	2.008"	0.740"	0.866"	0.900"
<b>BC6048*</b>	Honda K20A/Z - Cust	5.473"	1.890"	0.935"	0.866"	0.900"
<b>BC6058*</b>	Honda K20A/Z - LW	5.473"	1.890"	0.935"	0.866"	0.900"
<b>BC6045</b>	Honda K24 - 625+	5.985"	2.008"	0.740"	0.866"	0.900"
<b>BC6049*</b>	Honda K24 - Custom	5.985"	1.890"	0.935"	0.866"	0.900"
<b>BC6059*</b>	Honda K24 - LW Cust	5.985"	1.890"	0.935"	0.866"	0.900"
<b>BC6068</b>	Honda F22C - 625+	5.893"	2.008"	0.940"	0.905"	0.940"
<b>BC6069</b>	Honda F20C - 625+	6.023"	2.008"	0.940"	0.905"	0.940"
<b>BC6104</b>	Mits 4G63 (1g) - 625+	5.906"	1.890"	1.115"	0.827"	1.115"
<b>BC6105</b>	Mits 4G63 (1g) - bROD	5.906"	1.890"	1.115"	0.827"	1.115"
<b>BC6108</b>	Mits 4G63 (2g) - 625+	5.906"	1.890"	1.038"	0.866"	1.038"
<b>BC6109</b>	Mits 4G63 (2g) - bROD	5.906"	1.890"	1.038"	0.866"	1.038"
<b>BC6168</b>	Dodge SRT-4 - 625+	5.945"	2.086"	1.038"	0.866"	1.038"
<b>BC6169</b>	Dodge SRT-4 - bROD	5.945"	2.086"	1.038"	0.866"	1.038"
<b>BC6208</b>	Nissan SR20 - 625+	5.366"	2.008"	0.896"	0.866"	0.858"
<b>BC6209</b>	Nissan SR20 - bROD	5.366"	2.008"	0.896"	0.866"	0.858"
<b>BC6218</b>	Nissan KA24 - 625+	6.495"	2.086"	0.973"	0.827"	1.000"
<b>BC6219</b>	Nissan KA24 - bROD	6.495"	2.086"	0.973"	0.827"	1.000"
<b>BC6226</b>	Niss VQ35HR - 625+	5.974"	2.244"	0.818"	0.866"	0.818"
<b>BC6227</b>	Niss VQ35HR - bROD	5.974"	2.244"	0.818"	0.866"	0.818"
<b>BC6228</b>	Niss VQ35DE - 625+	5.675"	2.165"	0.818"	0.866"	0.858"
<b>BC6229</b>	Niss VQ35DE - bROD	5.675"	2.165"	0.818"	0.866"	0.858"
<b>BC6238</b>	Nissan RB26 - 625+	4.783"	2.008"	0.858"	0.827"	0.858"
<b>BC6239</b>	Nissan RB26 - bROD	4.783"	2.008"	0.858"	0.827"	0.858"
<b>BC6258</b>	Nissan TB48 - Custom	6.535"	2.325"	0.991"	0.990"	0.991"
<b>BC6309</b>	Toyota 2JZ - 625+	5.590"	2.166"	1.020"	0.866"	1.000"
<b>BC6329</b>	Toyota 7M - bROD	5.980"	2.166"	0.977"	0.866"	1.010"
<b>BC6349</b>	Scion 2AZFE - bROD	5.886"	2.008"	0.780"	0.866"	0.780"
<b>BC6608</b>	Subaru EJ - 625+	5.141"	2.165"	0.843"	0.905"	0.843"
<b>BC6609</b>	Subaru EJ - bROD	5.141"	2.165"	0.843"	0.905"	0.843"



## 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
<b>BC5018*</b>	Honda B16A	84.5mm
<b>BC5018LW*</b>	Honda B16A - LightWeight (-7 lbs)	84.5mm
<b>BC5019*</b>	Honda B18A/B, B20B, B18C	95mm
<b>BC5019LW*</b>	Honda B18A/B, B20B, B18C - LightWeight (-7 lbs)	95mm
<b>BC5020*</b>	Honda B18A/B, B20B, B18C	92mm
<b>BC5020LW*</b>	Honda B18A/B, B20B, B18C - LightWeight (-7 lbs)	92mm
<b>BC5035</b>	Honda H22/H22A (55mm main - 1997-2001)	100mm
<b>BC5039</b>	Honda H22/H22A (50mm main - 1993-1996)	100mm
<b>BC5048</b>	Honda/Acura K20A/K20Z (Custom Crank Pin)	92mm
<b>BC5049</b>	Honda K24A1/K24A2 (Custom Crank Pin)	102mm
<b>BC5069</b>	Honda F20C/F22C	97mm
<b>BC5099</b>	Honda C30A/C32B (NSX)	84mm
<b>BC5105*</b>	Mitsubishi 4G63 (6 Bolt)	102mm
<b>BC5109</b>	Mitsubishi 4G63/Evo (7 Bolt)	102mm
<b>BC5110</b>	Mitsubishi 4G64 Block w/4G63 Head (7 Bolt)	106mm
<b>BC5111</b>	Mitsubishi 4G64 Block w/4G63 Head (6 Bolt)	106mm
<b>BC5139</b>	Mitsubishi 4B11T (Evo X)	98mm
<b>BC5149</b>	Mitsubishi 6G72 (3000GT/Stealth)	84mm
<b>BC5209</b>	Nissan SR20DE(T)	91mm
<b>BC5219</b>	Nissan KA24DE - Fully Counterweighted	102mm
<b>BC5225</b>	Nissan VQ35DE - Fully Balanced	86.4mm
<b>BC5225U</b>	Nissan VQ35DE - Unbalanced	86.4mm
<b>BC5227</b>	Nissan VQ35HR - Fully Balanced	86.4mm
<b>BC5227U</b>	Nissan VQ35HR - Unbalanced	86.4mm
<b>BC5229</b>	Nissan VQ35HR - Fully Balanced	90mm
<b>BC5229U</b>	Nissan VQ35HR - Fully Balanced	90mm
<b>BC5239</b>	Nissan RB26/RB25	79mm
<b>BC5259</b>	Nissan TB48 - Big Block Chevy Pin	108mm
<b>BC5309</b>	Toyota 2JZGTE/2JZGE	94mm
<b>BC5309LW</b>	Toyota 2JZGTE/2JZGE - Lightweight (-15 lbs)	94mm
<b>BC5349</b>	Toyota/Scion 2AZFE	102mm
<b>BC5609</b>	Hyundai G6DA	93mm
<b>BC5609</b>	Subaru EJ20	79mm
<b>BC5629</b>	Subaru EJ25	99mm

\*Indicates 4340 steel