

New Improved Cam Core Technology

Description	Part Number	Advertised Duration		Duration @ .050"		Lobe Lift		Gross Lift 1.57 / 1.57		Rec Kit
		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Nissan SR20DE (1994)	Stock	256	248	202°	194°	.254"	.235"	.398"	.369"	Stock
TOMEI	270 Pro	270	270	224°	224°	.315"	.315"	.494" inches 12.5 mm	.494" inches 12.5 mm	Stock
STAGE 1 Street use with emphasis on bottom end and mid range power. Works with stock springs up to factory rev limiter. RPM Range: Idle to 6500+	61301-2	264	264	210°	210°	.260"	.260"	.409" inches 10.39 mm	.409" inches 10.39 mm	Stock
STAGE 2 - Forced Induction Street Designed specifically for turbo or supercharger applications. Low duration, high lift profile. Requires Crower spring kit #84183. RPM Range: 1000 to 7000+	61301T-2	272	272	210°	210°	.289"	.289"	.453" inches 11.5 mm	.453" inches 11.5 mm	84183
STAGE 2 - Hot Street Designed for street/strip applications in normally aspirated engines. Most popular profile. Requires spring/retainer kit #84183. RPM Range: 1250 to 7000+	61302-2	272	272	216°	216°	.275"	.275"	.431" inches 10.9 mm	.431" inches 10.9 mm	84183
STAGE 3 - 3/4 Race Limited street use with rough idle. Normally aspirated design for fairly modified engine. Requires spring/retainer kit #84183. RPM Range: 1500 to 7500+	61303-2	280	280	220°	220°	.296"	.296"	.464" inches 11.8 mm	.464" inches 11.8 mm	84183
STAGE 4 - Forced Induction Race Designed specifically for turbo high performance Drift or full Drag race applications. Requires Crower spring kit #84183. RPM Range: 1000 to 7500+	61304T-2	280	280	220°	220°	.317"	.317"	.497" inches 12.6 mm	.497" inches 12.6 mm	84183
STAGE 4 - Full Race Drag Race and radical Street/Strip. Requires #84183 spring kit and compatible ECU upgrade for optimum results. Rough idle. RPM Range: 1500 to 8000+	61304-2	288	288	232°	232°	.308"	.308"	.483" inches 12.3 mm	.483" inches 12.3 mm	84183
CUSTOM GRIND - Crower can custom grind cams to your desired specs, also proprietary profiles available upon request.	00078-2	Refer to page 7 for camshaft recommendation form								

The above cams will not fit S14 NVCS/VTC cylinder head. Duration figures are taken at the lobe.

REMEMBER!

When installing new camshaft please remember that the contact surface of the follower must be free of wear/ smooth surface.

ENGINEERED COMPONENT KITS

Part No.	Springs	Retainers	Remarks
84183	68183-16	87097-16	Titanium retainer intended for race and limited street

Spring pressure:

68183-16 Seat: 1.550" @ 73 lbs / Nose: 1.050" @ 191 lbs / Coil bind: 0.895"
 (No machine work required).

STAINLESS STEEL VALVES

Made from the highest grade stainless steel, this new Crower valve is a must for high horsepower, high boost and high rpm applications. The exclusive "Pro Flo" head design delivers a significant increase in cylinder head flow figures, while the tip area is hardened to RC50, including past the critical keeper groove area for added strength. Fully CNC machined and swirl polished to insure that you will get the best performance valve available on the market. Available in standard, 1/2 mm and 1mm oversize. Titanium valves also available. Contact Crower for availability.

ACCESSORIES

Part No.	Description
97452I-8	Stainless steel valves - 34.15 mm head dia (8 only int)
97452E-8	Stainless steel valves - 30.15 mm head dia (8 only exh)
97453I-8	Stainless steel valves - 34.65 mm head dia (8 only int)
97453E-8	Stainless steel valves - 30.65 mm head dia (8 only exh)
97454I-8	Stainless steel valves - 35.15 mm head dia (8 only int)
97454E-8	Stainless steel valves - 31.15 mm head dia (8 only int)

Note: When ordering valves, be sure to specify one set int and one set exh.

HIPPO Lifter Option: For severe duty roller lifter applications, we highly recommend using our roller lifters with Hippo "High Pressure Pin Oiling". **66945X980-16** requires .185 shorter pushrod & adjustable rocker. Specify "H" in the part number. **Ex. 66290X874H-16**

KA24DE - 16v TWIN CAM (91-02)

Note: These cams use .008" intake (cold), .010" exhaust valve lash (cold).

New Improved Cam Core Technology

Description	Part Number	Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift		Rec Kit
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Nissan KA24DE (1996)	Stock	114°	248	256	203°	207°	.344"	.357"	Stock
STAGE 1 - Hotter Than Stock Street use with emphasis on bottom end and mid range power. Works with stock springs up to factory rev limiter. RPM Range: Idle to 6250+	61351-2	114°	256	256	210°	214°	.363"	.363"	Stock
STAGE 2 - Forced Induction Street/Strip Designed specifically for turbo or supercharger applications. Low duration, high lift profile. Requires Crower spring kit #84184. RPM Range: 1000 to 6750+	61351T-2	114°	264	264	218°	218°	.375"	.375"	84184
STAGE 3 - Normally Aspirated 3/4 Race Limited street use with rough idle. Normally aspirated design for fairly modified engine. Requires spring/retainer kit #84184. RPM Range: 1500 to 7000+	61352-2	112°	272	272	228°	228°	.406"	.406"	84184
STAGE 3 - Forced Induction Race Drag Race and radical Street/Strip. Requires #84184 spring kit and compatible ECU upgrade for optimum results. Lope at idle. RPM Range: 1500 to 7000+	61353-2	114°	280	280	222°	222°	.401"	.401"	84184
STAGE 3 - Normally Aspirated Race Full race design for heavily modified & tuned engine. Not for the inexperienced tuner. Requires Crower spring/retainer kit #84184. RPM Range: 1500 to 7250+	61354-2	112°	288	288	236°	236°	.411"	.411"	84184
CUSTOM GRIND - Crower can custom grind cams to your desired specs, also proprietary profiles available upon request.	00079-2	<i>Refer to page 7 for camshaft recommendation form</i>							

Duration figures are taken at the lobe.

NOTE: If the customer has a 240SX years 91-98 rear wheel drive engine, we machine the distributor drive off of the exhaust cam so it doesn't hit the valve cover.

NOTE: If the customer has a Nissan Altima 99-02, front wheel drive, the exhaust cam will drop right in, no machine work required.

ENGINEERED COMPONENT KITS

Part No.	Springs	Retainers	Seat	Remarks
84184	68188-16	87098-16	68926-16	Titanium retainer intended for race and limited street

Spring pressure:
68192-16 Seat: 1.400" @ 73 lbs / Nose: 0.950" @ 155 lbs / Coil bind: 0.850"
(No machine work required).
Maximum lift on stock valve springs in .380".

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When installing new camshaft please remember that the contact surface of the follower must be free of wear/smooth surface.

ACCESSORIES

Part No.	Description
974581-8	Stainless steel valves - 37.10 mm (+.5mm) dia (8 only int)
97458E-8	Stainless steel valves - 31.80 mm (+.5mm) dia (8 only exh)

Note: When ordering valves, be sure to specify one set int and one set exh.

MAXI-LITE BILLET RODS

Crower's new Maxi-Lite billet is approximately 100 grams lighter than Crower's standard billet.

STEEL BILLET RODS

Premium steel billet rods are designed for high boost and/or nitrous applications and are available for a wide variety of Nissan engine platforms including the KA24D and DE (#B93774B-4), SR20DE (#B93773B-4), VQ35DE (#B93775B-6), VG30DE (#B93776B-6) and RB26DETT (#B93777B-6). Features 220,000 p.s.i. rod bolts standard for ultimate clamping ability.

PATROL 4.2L & 4.5L - SINGLE CAM

Note: These cams use .014" intake (hot), .016" exhaust valve lash (hot).

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Description	Part Number	Lobe Center	Advertised Duration (.010")		Duration @ .050"		Lobe Lift		Gross Lift		Rec Kit
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
NISSAN PATROL 4.2L (Stock Specs)	Stock	112°	260°	260°	198°	198°	.280"	.280"	.420"	.420"	Stock
STAGE 1 Hotter than stock profile. Smooth idle quality and will work with stock valve springs. No ECU upgrade required. RPM Range: Idle to 6000+. 12+ HP over stock setup.	61390	112°	280°	280°	220°	220°	.296"	.296"	.445"	.445"	Stock
STAGE 2 - Forced Induction Special Performance oriented street, use with turbo, supercharger and/or nitrous. Will work with stock springs and ECU. RPM Range: 1000 to 6500+. HP gains depend on engine mods.	61391	112°	299°	299°	228°	228°	.309"	.309"	.464"	.464"	Stock
STAGE 2 Recommend for hot street use. Rough idle is expected. Requires spring change (#68147). Lope at idle is common. RPM Range: 1100 to 7000+. HP gains depend on engine mods.	61392	112°	303°	303°	235°	235°	.333"	.333"	.500"	.500"	68147
STAGE 3 - 3/4 Race Road/Rally and Street/Strip. Requires spring change (#68147) and ECU upgrade to take advantage of higher rpm potential. RPM Range: 1200 to 7250+. HP gains depend on engine mods.	61393	110°	309°	309°	248°	248°	.338"	.338"	.507"	.507"	68147
STAGE 4 - Full Race Emphasis on top end power with extremely rough idle quality. Not recommended for daily driver. Spring/ECU upgrade req. RPM Range: 1300 to 7500+. HP gains depend on engine mods.	61394	108°	316°	316°	256°	256°	.350"	.350"	.526"	.526"	68147
CUSTOM GRIND - Crower can custom grind cams to your desired specs, also proprietary profiles available upon request.	00007		<i>Refer to page 7 for camshaft recommendation form</i>								

Note: The above cams will not fit the 4.8L Nissan Patrol applications. Duration figures are taken at the lobe.

Spring pressure:

68147-12 Seat: 1.590" @ 85 lbs / Nose: 1.150" @ 261 lbs / Coil bind: 1.030" (No machine work required).

Note: Use with stock retainers. Titanium retainers will be available shortly.

4340 Steel Billet Connecting Rods Available

B93771B-6 - 4.2L/4.5L

B93772B-6 - 4.8L

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MAXI-LITE BILLET RODS

Crower's new Maxi-Lite billet is approximately 100 grams lighter than Crower's standard billet.

Crower's premium steel billet connecting rods can handle 1200+ HP (6 cylinder) and are available for a variety of engine makes including the Nissan Patrol and Toyota LandCruiser

STEEL BILLET RODS

100% made in the USA from premium steel billet material, Crower offers shelf part numbers for the Nissan Patrol 4.8L (#B93772B-6) and the 4.2L/4.5L (#B93771B-6) engines. Features 220,000 p.s.i. rod bolts designed for high boost applications and/or nitrous. Optional 280,000 p.s.i. bolt upgrade also available for severe-duty use. Toyota LandCruiser 4.5L (#B93758B-6) and 4.8L - 8 cylinder (#B93760B-8) connecting rods are also on the shelf.

