

ARCTIC CAT® VARIOUS 998cc TRIPLES 2017-'22

January 19, 2024



ARCTIC CAT

Manufacturing Valvetrain For 80-Years & 2-Generations

- M 9000 KING CAT 2017-2019
- XF 9000 CROSS COUNTRY LTD 2017-2019
- XF 9000 CROSSTREK 2017-2018
- XF 9000 HIGH COUNTRY LTD 2017-2019
- ZR 9000 LTD 2017-2019
- ZR 9000 LXR 2017
- ZR 9000 RR 2017-2019
- ZR 9000 SNO PRO 2017-2019
- ZR 9000 THUNDERCAT 2017-2022
- XF 9000 CROSSTOUR 2018
- WILDCAT XX 2019-2022

Valve Spring Kit • Lightweight Racing

	KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift	
	88-88200	Intake	.445"	1.300"	53#	167#	.445"	
		Exhaust						
Kit Includes			12	Titanium Retainers	12	CrSi Valve Springs	12	H. T. Steel Basewashers
	KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift	
	88-88300	Intake	.445"	1.300"	53#	167#	.445"	
		Exhaust						
Kit Includes			12	H. T. Steel Retainers	12	CrSi Valve Springs	12	H. T. Steel Basewashers

It may be necessary to use KPMI® Shortened Valve Guides # 88-88220, to achieve higher stock lift.

Valve Spring Kit • "Shim in Tappet" Lightweight Racing

	KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift
	88-88250	Intake	.445"	1.300"	53#	167#	.445"
		Exhaust					
Kit Includes			12	Titanium Retainers	12	CrSi Valve Springs	
			12	H. T. Steel Basewashers	12	H. T. Steel Tappets	
	KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift
	88-88350	Intake	.445"	1.300"	53#	167#	.445"
		Exhaust					
Kit Includes			12	H. T. Steel Retainers	12	CrSi Valve Springs	
			12	H. T. Steel Basewashers	12	H. T. Steel Tappets	



Shim In Tappet (SIT)

KPMI® shim in tappet systems locate the adjustment shim in the hardened steel of the tappet body, where it is impervious to wearing (ovalling) and kicking the shim out. By designing the tappet and retainer together as a system, the shim counterbore depth in the tappet has been maximized. This allows for increased insurance against losing the shim even in the event of valvetrain separation during severe operating conditions, over-revs, or extreme boost pressures. It may be necessary to use KPMI® Shortened Valve Guides # 88-88220, to achieve higher stock lift.

Valves • Black Diamond™ • Black Nitroeng Stems

	KPMI P/N	Type	Head Diameter		Stem Diameter	Tulip	O. L.	Remarks
	88-88212	Intake	31.00mm	1.220"	0.1765"	15°	3.495"	Standard
	88-88213	Intake	32.00mm	1.260"	0.1765"	15°	3.495"	Oversize
	88-88216	Exhaust	26.00mm	1.024"	0.1760"	25°	3.470"	Standard
	88-88217	Exhaust	27.00mm	1.063"	0.1760"	25°	3.470"	Oversize

Valve • White Diamond® • Inconel® • Exhaust

	KPMI P/N	Type	Head Diameter		Stem Diameter	Tulip	O. L.	Remarks
	88-88216K	Exhaust	26.00mm	1.024"	0.1760"	25°	3.465"	Standard

** Inconel® is classified as a "Super Alloy", meaning that it is designed to survive under the most extreme temperatures and pressures where other valves will begin to burn, corrode, or completely fail. This is the material of choice for high output engines running turbos, superchargers, nitromethane, or nitrous.

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Valve Guides • C630 Bronze

		A	B	C	D	E	F	G	Intake	Exhaust
		0.530"	0.530"	0.585"	0.750"	0.354"	0.1760"	0.3564" / Std.		88-88220
									+0.001"	88-88221
									+0.002"	88-88222
									+0.010"	88-88229

Keeper Set • O.E.M. Replacement

		KPMI P/N	Style	Type	A	B	C	D	E	Quantity
		88-88240	Single Radius Bead	Intake	0.177"	6.0°	0.186"	0.221"	0.212"	12 Pr.
				Exhaust						
Note : The bead height is referenced from the minor diameter of the keeper to the center of the bead.										

Valve Guide Seals • Viton®

Stem Diameter	O.L.	Seal O.D.	Seal Style	Designed for these guide specs				Type
4.5mm	0.331"	0.370"	4	A	B	C	D	Intake
				0.321"±0.005"	0.281"	0.120"	0.240"	Exhaust
		Part Number			Quantity		Quantity Discount	
		71014-4			Pkg. of 4		0%	
		71014-8			Pkg. of 8		0%	
		71014-12			Pkg. of 12		0%	
		71014-16			Pkg. of 16		Less- 10%	
		71014-50			Pkg. of 50		Less- 15%	
		71014-100			Pkg. of 100		Less- 20%	

Tappet • Shim In Tappet (SIT) • H.T. Steel

	KPMI P/N	Type	Coating	A	B	C	E	F	Quantity	
	600-100850	Intake	None	26.50mm	1.0420"	0.992"	0.748"	0.297"	0.120"	Pkg. of 1
		Exhaust								

Tappets • O.E.M. Replacement • H.T. Steel

	KPMI P/N	Type	Coating	A	B	C	E	F	Quantity	
	88-88245	Intake	None	26.50mm	1.0420"	0.992"	0.748"	0.285"	0.106"	Pkg. of 12
		Exhaust								

KPMI® Engineers design our tappets using Finite Element Stress Analysis (FEA) software. This software allows our engineers to lighten the tappets without sacrificing strength so we can create the strongest, lightest tappets possible. These tappets are machined from aircraft quality solid steel bar stock. They undergo a proprietary heat treat process that creates a hard surface and a non brittle-core, maximizing toughness and wear resistance. Kibblewhite® tappets are run in high performance automotive and motorcycle applications including Motocross, Flat Track, Road Race, Drag Race, and Land Speed Racing at the Bonneville Salt Flats. Refer to **KPMI® Tappet Section**, in back of catalog or www.kpmi.us website, when selecting other size tappets.

Contact a KPMI® Sales Representative Today!

650-557-2046, Ext. 802

ORDER 650-557-2046

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Retail Price List

KPMI P/N	Description	Retail
88-88200	Racing Spring Kit, Titanium, 0.445" Lift	\$418.78
88-88300	Racing Spring Kit, HT Steel, 0.445" Lift	\$327.59
88-88250	Shim-in-Tappet Spring Kit, Titanium, 0.445" Lift	\$1,009.52
88-88350	Spring Kit (Shim-in-Tappet), HT steel, 0.445" Lift	\$856.16
88-88216K	Valve, White Diamond® Inconel, Exhaust Std.	\$47.83
88-88212	Valve, Black Diamond™, Intake Std.	\$37.55
88-88213	Valve, Black Diamond™, Intake O/S	\$37.55
88-88216	Valve, Black Diamond™ Exhaust Std.	\$37.55
88-88217	Valve, Black Diamond™ Exhaust O/S	\$37.55
88-88220	Guide, C630, Intake / Exhaust Std.	\$15.92
88-88221	Guide, C630, Intake / Exhaust +0.001	\$15.92
88-88222	Guide, C630, Intake / Exhaust +0.002	\$15.92
88-88229	Guide, C630, Intake / Exhaust +0.010	\$15.92
71014-4	Seal, Red Viton, 4.5mm Stem x 0.321" Guide (Pkg. of 4)	\$13.96
71014-8	Seal, Red Viton, 4.5mm Stem x 0.321" Guide (Pkg. of 8)	\$27.92
71014-12	Seal, Red Viton, 4.5mm Stem x 0.321" Guide (Pkg. of 12)	\$41.88
71014-16	Seal, Red Viton, 4.5mm Stem x 0.321" Guide (Pkg. of 16)	\$50.25
71014-20	Seal, Red Viton, 4.5mm Stem x 0.321" Guide (Pkg. of 20)	\$62.82
71014-50	Seal, Red Viton, 4.5mm Stem x 0.321" Guide (Pkg. of 50)	\$148.33
71014-100	Seal, Red Viton, 4.5mm Stem x 0.321" Guide (Pkg. of 100)	\$279.21
88-88240	Keeper Kit, HT Steel, OEM Repl	\$37.85
600-100850	Tappet, HT Steel, Universal (Pkg. of 1)	\$58.98
88-88245	Tappet (OEM Replacement), HT Steel	\$517.22

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