



NEW PRODUCT

January 18 2024



POLARIS

Manufacturing Valvetrain For 80-Years & 2-Generations

Applications	Polaris®	Polaris®
Years	2020-2023	2022-2023
Models	Slingshot (4-Cylinders)	RZR™ Pro R (4-Cylinders)

Valve Spring Kit • Lightweight Racing

	KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift	
	82-86050	Intake	.450"	1.375"	65#	200#	.450"	
		Exhaust						
	Kit Includes		16	Titanium Retainers	16	CrSi Valve Springs		
			16	H.T. Steel Basewashers	16	Viton® Seals		
KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift		
82-86055	Intake	.450"	1.375"	64#	181#	.450"		
	Exhaust							
Kit Includes		16	Titanium Retainers	16	CrSi Valve Springs			
		16	H.T. Steel Basewashers	16	Viton® Seals			
	KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift	
	82-86060	Intake	.450"	1.375"	65#	200#	.450"	
		Exhaust						
	Kit Includes		16	H.T. Steel Retainers	16	CrSi Valve Springs		
			16	H.T. Steel Basewashers	16	Viton® Seals		
KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift		
82-86065	Intake	.450"	1.375"	64#	181#	.450"		
	Exhaust							
Kit Includes		16	H.T. Steel Retainers	16	CrSi Valve Springs			
		16	H.T. Steel Basewashers	16	Viton® Seals			

- These spring kits are compatible with the OEM tappet lash adjustment system and the KPMI® shim conversion tappets.
- KPMI® performance valve spring kits are modeled using cam profile and simulation softwares. By utilizing FEA software, it was possible to take advantage of the increased strength and wear resistance of a heat treated steel retainer, while reducing its mass to within grams of a comparable titanium retainer. With two different spring pressure option kits to choose from, these are the ultimate setup for any Polaris RZR/Ranger tuner.

Valve Spring Kit • Beehive Racing

	KPMI P/N	Type	Max Valve Lift	Installed Height	Seat Pressure	Open Pressure	@ Lift
	82-86070	Intake	.435"	1.360"	80#	205#	.435"
		Exhaust					
Kit Includes		16	H.T. Steel Retainers	16	CrSi Valve Springs	16	Viton® Seals

- 1) This kit is compatible with the OEM tappet lash adjustment system and the KPMI® shim conversion tappets
- 2) This kit is designed for compatibility with the OEM integrated Seal/Base (OE# 3610212) or KPMI#71048-8 (included in this kit)
- 3) KPMI® made OEM replacement seals are included for a more complete performance valvetrain solution



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Valves • Black Diamond™ • Black Nitroneg Stems

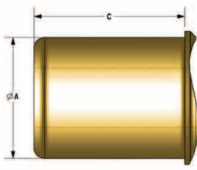

	KPMI P/N	Type	Head Diameter		Stem Diameter	Tulip	O. L.	Remarks
	82-82612	Intake	37.72mm	1.485"	0.2160"	17°	3.775"	Standard
	82-82613	Intake	38.72mm	1.524"	0.2160"	17°	3.775"	Oversize

Valves • White Diamond® • Inconel®

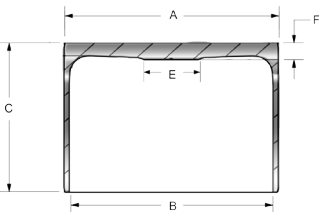
	KPMI P/N	Type	Head Diameter		Stem Diameter	Tulip	O. L.	Remarks
	82-83112H	Intake	37.72mm	1.485"	0.2160"	17°	3.775"	Standard
	**82-83116K	Exhaust	29.21mm	1.150"	0.2155"	25°	3.805"	Standard -Inconel®

**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.

Valve Guide Seals • OEM Replacement • Tophat

Stem Diameter	O.L	Seal O.D.	Seal Style	Designed for these guide specs			Spring Shoulder Dia.	Type	Rep. OEM P/N
				A	B	C			
5.5mm	0.630"	1.043"	3	0.435"±0.005"	---	0.480"	0.697"	Intake Exhaust	3610212
				Part Number		Quantity	Quantity Discount		
				71048-4		Pkg. of 4	0%		
				71048-8		Pkg. of 8	0%		
				71048-16		Pkg. of 16	Less- 10%		
				71048-50		Pkg. of 50	Less- 15%		
				71048-100		Pkg. of 100	Less- 20%		

Tappets • Shim On Bottom Conv. • H.T. Steel

	KPMI P/N	Type	Coating	A	B	C	E	F	Quantity	
	82-86075	Intake	None	31.15mm	1.2260"	1.156"	0.800"	0.325"	0.108"	Pkg. of 16
		Exhaust								
	*82-86080	Intake	DLC Coated	31.15mm	1.2260"	1.156"	0.800"	0.325"	0.108"	Pkg. of 16
Exhaust										

Note: These tappets must be used with KPMI® spring kit to convert to a 9.5mm shim adjustment system. *Our coated tappets undergo a low temperature PVD process to deposit a DLC film, which is extremely hard and has a very low coefficient of friction. These properties help the tappet to maintain its durability in extreme duty situations. Although KPMI® recommends never running a camshaft off the edge of the tappet, this coating may help increase durability in these applications. For complete shim range visit www.kpmi.us or Tappets section in back of catalog.



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Retail Price List

KPMI P/N	Description	Retail
82-86050	Racing Spring Kit • Titanium • 0.450" lift • Seat 65#	\$710.56
82-86055	Racing Spring Kit • Titanium • 0.450" lift • Seat 64#	\$710.56
82-86060	Racing Spring Kit • H.T. Steel • 0.450" lift • Seat 65#	\$525.54
82-86065	Racing Spring Kit • H.T. Steel • 0.450" lift • Seat 64#	\$525.54
82-86070	Beehive Spring Kit • H.T. Steel • 0.435" Lift	\$465.33
82-82612	Valve, Black Diamond™ Stainless, IN STD	\$37.55
82-82613	Valve, Black Diamond™ Stainless, IN O/S	\$37.55
82-83116K	Valve, White Diamond® Inconel®, EX STD	\$47.83
82-83112H	Valve, White Diamond® Stainless, IN STD	\$37.55
71048-4	Seal, Red Viton, OEM Replacement, Tophat (Pkg. of 4)	\$15.64
71048-8	Seal, Red Viton, OEM Replacement, Tophat (Pkg. of 8)	\$31.29
71048-16	Seal, Red Viton, OEM Replacement, Tophat (Pkg. of 16)	\$56.30
71048-50	Seal, Red Viton, OEM Replacement, Tophat (Pkg. of 50)	\$166.20
71048-100	Seal, Red Viton, OEM Replacement, Tophat (Pkg. of 100)	\$312.85
82-86075	Tappet, Shim On Bottom Conv.	\$943.60
82-86080	Tappet, DLC Coated, Shim On Bottom Conv.	\$1,886.53

Contact a KPMI® Sales Representative Today!
650-557-2046, Ext. 802