

Red Shift® Sportster® Cams Fitment Matrix

		1991-Up 5 Speed Evolution (XL, XB & XR1200)				1986-1990 4 Speed Evolution			
Displacement		883cc	1200cc	88"	99"	1200cc	88"	99"	100"
Bore		3.000"	3.500"	3.812"	3.812"	3.500"	3.812"	3.812"	4.000"
Stroke		3.812"	3.812"	3.812"	4.312"	3.812"	3.812"	4.312"	4.000"
Modified Street PUMP GAS, Modified Heads, & Increased Compression	Balanced TQ/HP		567 or 575	605/591 or 630/585	605/591 or 630/585	573	615	625	615
	Big HP		585	643	643	573	625	723	723
Race Only Race Fuel & High Compression	Balanced TQ/HP	567	585 or 643	605/591 or 630/585	605/591 or 630/585	615	625	625	625
	Big HP	585 or 643	643 or 729	643 or 729	643 or 729	625	723	723	723

5 Speed Sportster®	Cam Model	Valve	Intake Timing Exhaust @0.053			Duration	TDC Lift @ Valve	Valve Lift	Bolt-In?
	567V2	Intake	24	101	49	253	0.211	0.567	Yes '04-Up No '91-'03
		Exhaust	54	108	19	253	0.172	0.567	
	575V2	Intake	26	96	38	244	0.204	0.575	Yes '04-Up No '91-'03
		Exhaust	44	102	20	244	0.172	0.575	
	585V2	Intake	22	108	59	261	0.183	0.583	No
		Exhaust	66	117	13	259	0.139	0.583	
	605/ 591V2	Intake	30	100	50	260	0.228	0.605	No
		Exhaust	56	112	32	268	0.228	0.591	
	630/ 585V2	Intake	26	95	40	246	0.224	0.630	No
Exhaust		59	108	21	260	0.181	0.583		
643V2	Intake	28	104	62	270	0.235	0.643	No	
	Exhaust	71	116	19	270	0.172	0.643		
729V2	Intake	34	104	65	279	0.279	0.729	No	
	Exhaust	71	112	28	279	0.228	0.729		

All numbers are calculated using stock rocker arm ratios. Re-calculate the figures if using higher ratio rocker arms.

4 Speed Sportster®	Cam Model	Valve	Intake Timing Exhaust @0.053			Duration	TDC Lift @ Valve	Valve Lift	Bolt-In?
	573V2	Intake	25	105	55	260	0.215	0.575	No
		Exhaust	65	115	15	260	0.157	0.575	
	615V2	Intake	28	103	58	266	0.225	0.615	No
		Exhaust	59	106	25	264	0.207	0.615	
	625V2	Intake	32	103	58	270	0.250	0.625	No
		Exhaust	62	107	28	270	0.228	0.625	
	723V2	Intake	39	105	62	281	0.284	0.723	No
		Exhaust	75	116	25	280	0.207	0.723	
	785V2	Intake	27	112	71	278	0.237	0.786	No
Exhaust		78	119	20	278	0.190	0.786		
785V2	Intake	28	111	72	280	0.219	0.787	No	
	Exhaust	78	119	20	278	0.183	0.787		

All numbers are calculated using stock rocker arm ratios. Re-calculate the figures if using higher ratio rocker arms.

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