

Red Shift Cams for 2007-Up Twin Cam® Engines

Red Shift Cams Twin Cam® Application Matrix for 2007-Up Engines										
Displacement		96	103	107	CVO110	117	120	120R	124	131
Bore		3.750"	3.875"	3.937"	4.00"	4.125"	4.125"	4.060"	4.125"	4.312"
Stroke		4.375"	4.375"	4.375"	4.375"	4.375"	4.500"	4.625"	4.625"	4.500"
Factory Stock Engine, Unmodified Heads & Compression	Early Torque	525	525	527	587			657		
	Balanced TQ / HP	527 575	527 575	575	587			627		
Modified Street PUMP GAS Modified Heads, Increased Compression	Early Torque	527	527	575* 576*	576	577	657	657	657	657
	Balanced TQ / HP	575* 576*	575* 576*	577	657	657	627	627	627	627
	Big HP	577	577 627	657	657 687	657	647 687	647 687	647 687	647 687
Race Only High Compression, Race Fuel	Balanced TQ / HP		657		647	657	627	627	627	627
	Big HP		627 647		687 727	627, 647 or 687	627, 647 or 727	627, 647 or 727	627, 647 or 727	627, 647 or 727

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*RS575 for OE Beehive Spring Setups (7mm) 18245-02; RS576 for Heavy Duty Aftermarket Spring Setups or OE CVO110 Springs

Red Shift Cam Specs for 2007-Up Twin Cam® Engines											
Part Number	Cam Name	Valve	Opening @ 0.053	C/L	Closing @ 0.053	Duration	TDC Lift @ Valve	Total Lift @ Valve	Model Year	Bolt-In?	Recommended Valve Spring
413-905	RS 525	Intake	12	92	18	210	0.139	0.475	07-Up	Yes	OE 7mm Beehive (18245-02)
		Exhaust	36	104	13	229	0.139	0.525			
413-907	RS 527	Intake	18	100	36	234	0.170	0.525	07-Up	Yes	OE 7mm Beehive (18245-02)
		Exhaust	42	106	12	234	0.138	0.525			
413-926	RS 575	Intake	25	97	41	246	0.200	0.575	07-Up	Yes	OE 7mm Beehive (18245-02)
		Exhaust	49	105	17	246	0.157	0.575			
413-929	RS 576	Intake	25	97	41	246	0.215	0.576	07-Up	Yes CVO110 ONLY	CVO110 or 538-111
		Exhaust	49	105	17	246	0.162	0.576			
413-921	RS 577	Intake	25	100	47	252	0.214	0.577	07-Up	No	538-111 or 528-972 / 973
		Exhaust	49	104	23	252	0.197	0.577			
413-933	RS 587	Intake	19	98	35	234	0.186	0.590	07-Up	Yes CVO110 ONLY	CVO110 or 538-111
		Exhaust	43	106	11	234	0.136	0.590			
413-928	RS 627	Intake	30	100	50	260	0.240	0.625	07-Up	No	528-972 / 973
		Exhaust	61	107	27	268	0.207	0.600			
413-931	RS 647	Intake	26	106	58	264	0.211	0.647	07-Up	No	528-972 / 973
		Exhaust	58	106	26	264	0.211	0.647			
413-941	RS 657	Intake	27	99	45	252	0.227	0.658	07-Up	No	528-972 / 973
		Exhaust	51	103	27	258	0.220	0.650			
413-945	RS 687	Intake	35	102	63	278	0.275	0.689	07-Up	No	528-927
		Exhaust	67	110	31	278	0.233	0.689			
413-950	RS 727	Intake	35	105	66	281	0.285	0.727	07-Up	No	528-927
		Exhaust	67	112	34	281	0.269	0.727			

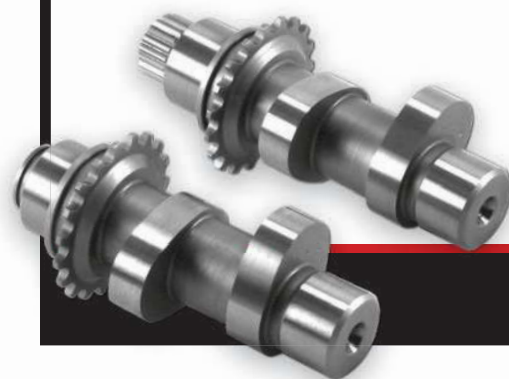
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RED SHIFT

PERFORMANCE CAMSHAFTS

Zipper's Performance Products
6655-A Amberton Drive, Elkridge, MD
Phone: (410) 579-2828 Fax: (410) 579-2835

www.ZippersPerformance.com
Zippers@ZippersPerformance.com



Red Shift Cams for 1999-2006 Twin Cam® Engines

Red Shift Cams Twin Cam® Application Matrix for 1999-2006 Engines										
Displacement		88	95	98	CVO103	107	107	117	120	124
Bore		3.750"	3.875"	3.937"	3.875"	4.125"	3.937"	4.125"	4.125"	4.125"
Stroke		4.000"	4.000"	4.000"	4.375"	4.000"	4.375"	4.375"	4.500"	4.625"
Factory Stock Engine, Unmodified Heads & Compression	Early Torque	511 (99-04) 527 (05-06)	511 (99-04) 527 (05-06)		527					
	Balanced TQ / HP	511 (99-04) 527 (05-06)	511 (99-04) 527 (05-06)		576					
Modified Street PUMP GAS Modified Heads, Increased Compression	Early Torque	511 (99-04) 527 (05-06)	527	527	576	575* 576*	576	577	657	657
	Balanced TQ / HP	511 (99-04) 527 (05-06)	577	577	577	657	577	657	627	627
	Big HP		657	657	657		657	657	647 687	647 687
Race Only High Compression, Race Fuel	Balanced TQ / HP		657	657	657		657	657	627	627
	Big HP		627, 647 or 727	627, 647 or 727	627, 647 or 727		627, 647 or 727	627, 647 or 687	627, 647 or 727	627, 647 or 727

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*RS575 for OE Beehive Spring Setups (7mm) 18245-02; RS576 for Heavy Duty Aftermarket Spring Setups or OE CVO103 Springs

Red Shift Cam Specs for 1999-2006 Twin Cam® Engines											
Part Number	Cam Name	Valve	Opening @ 0.053	C/L	Closing @ 0.053	Duration	TDC Lift @ Valve	Total Lift @ Valve	Model Year	Bolt-In?	Recommended Valve Spring
413-903	RS 511	Intake	25	94	33	238	0.207	0.510	99-04	Yes	99-04 Factory Dual Springs
		Exhaust	37	98	21	238	0.185	0.510			
413-906	RS 527	Intake	18	100	36	234	0.170	0.525	99-04	No	OE 7mm Beehive (18245-02)
		Exhaust	42	106	12	234	0.138	0.525	05-06	Yes	
413-925	RS 575	Intake	25	97	41	246	0.200	0.575	99-04	No	OE 7mm Beehive (18245-02)
		Exhaust	49	105	17	246	0.157	0.575	05-06	Yes	
413-923	RS 576	Intake	25	97	41	246	0.215	0.576	99-06	CVO103 ONLY	CVO103 or 538-111
		Exhaust	49	105	17	246	0.162	0.576			
413-920	RS 577	Intake	25	100	47	252	0.214	0.577	99-06	No	538-111 or 528-972 / 973
		Exhaust	49	104	23	252	0.197	0.577			
413-927	RS 627	Intake	30	100	50	260	0.240	0.625	99-06	No	528-972 / 973
		Exhaust	61	107	27	268	0.207	0.600			
413-930	RS 647	Intake	26	106	58	264	0.211	0.647	99-06	No	528-972 / 973
		Exhaust	58	106	26	264	0.211	0.647			
413-940	RS 657	Intake	27	99	45	252	0.227	0.658	99-06	No	528-972 / 973
		Exhaust	51	103	27	258	0.220	0.650			
413-950	RS 727	Intake	35	105	66	281	0.285	0.727	99-06	No	528-927
		Exhaust	67	112	34	281	0.269	0.727			

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