



Engine Make:	Engine Model:	Part Number:
<b>TOYOTA</b>	<b>4A-GE 16v (shim under bucket)</b>	<b>193HV-C</b>
Valve Clearance:	Intake: <b>0.25mm</b> Set <b>COLD</b> at the <b>CAM</b>	Exhaust: <b>0.30mm</b> Set <b>COLD</b> at the <b>CAM</b>
Cam Lift:	Intake: <b>11.25mm</b>	Exhaust: <b>10.40mm</b>
Rocker Ratio:	Intake: <b>1</b>	Exhaust: <b>1</b>
Nett Valve Lift:	Intake: <b>11.00mm</b>	Exhaust: <b>10.10mm</b>
Advertised Duration @ <b>0.30mm</b>	Intake: <b>318</b>	Exhaust: <b>304</b>
Duration @ <b>1.00mm VALVE LIFT</b>	Intake: <b>272</b>	Exhaust: <b>262</b>
Timing @ <b>1.00mm VALVE LIFT</b>	IVO: <b>38 BTDC</b>	EVO <b>54 BBDC</b>
	IVC: <b>54 ABDC</b>	EVC <b>28 ATDC</b>
	Intake: <b>98 ATDC</b>	Exhaust: <b>103 BTDC</b>
	Intake: <b>5.08mm</b>	Exhaust: <b>3.68</b>

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