

TOMEI Camshaft Spec Card

PART NAME **PROCAM** ENGINE **4B11**

PART NUMBER SET - IN 146C280115 EX 146D280110

GRIND	IN	280° / 11.50mm	SOLID	BACE	IN	Φ34.4	ROCKER ARM RATIO*	VALVE CLEARANCE	IN	0.20
	EX	280° / 11.00mm	SOLID	CIRCLE(Φ)	EX	Φ36.4	-	WHEN COLD	EX	0.30

LIFT	IN	@CAM 11.50mm	@VALVE 11.30mm	LOBE	IN	120.0
	EX	@CAM 11.00mm	@VALVE 10.70mm	CENTER(°)	EX	120.0

* ALL LIFTS ARE BASED ON ZERO LASH AND THORETICAL ROCKER ARM RATIOS

CAM TIMING		OPENS(°)		CLOSES(°)		Actual Duration @ Opening(°)
Actual Duration	IN	BTDC	16.0	ABDC	84.0	280.0
Valve Lift	EX	BBDC	80.0	ATDC	20.0	280.0

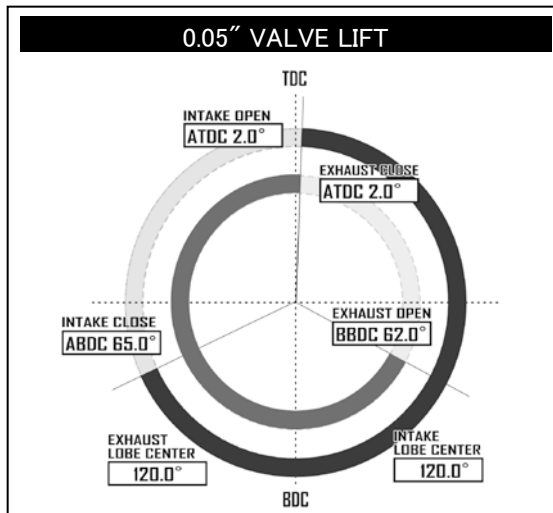
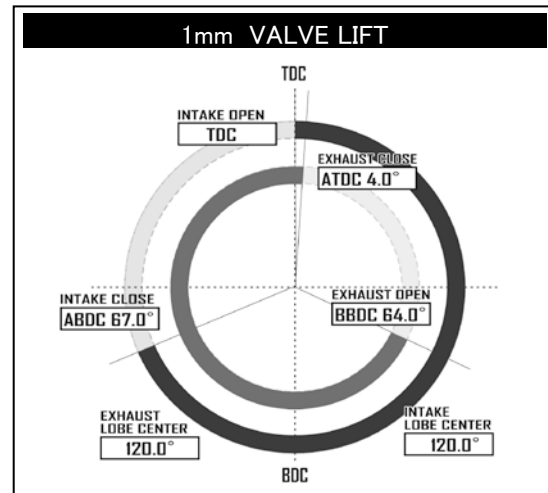
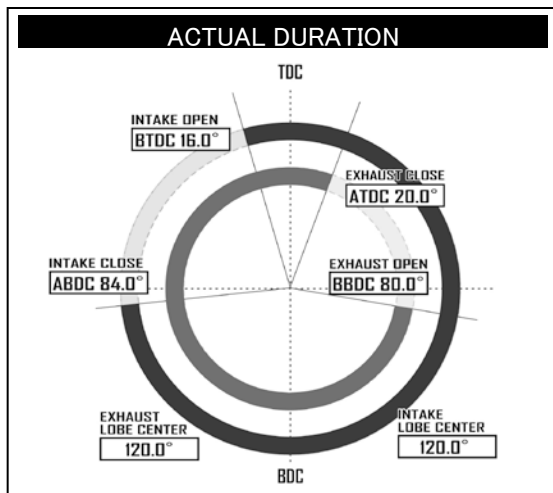
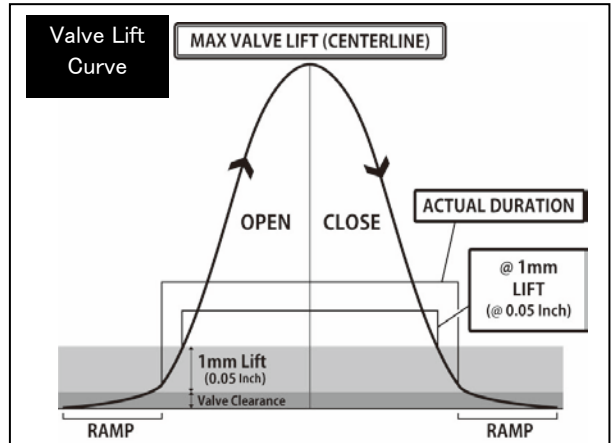
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

CAM TIMING		OPENS(°)		CLOSES(°)		TOTAL DURATION(°)
at 1mm	IN	TDC	0.0	ABDC	67.0	247.0
Valve Lift	EX	BBDC	64.0	ATDC	4.0	248.0

Values are of actual duration from start to end of 1mm value points. (Excluding ramp values)

CAM TIMING		OPENS(°)		CLOSES(°)		TOTAL DURATION(°)
at 0.05"	IN	ATDC	2.0	ABDC	65.0	243.0
Valve Lift	EX	BBDC	62.0	ATDC	2.0	244.0

Values are of actual duration from start to end of 0.05" value points. (Excluding ramp values)



REQUIRED VALVE SPRING SPEC	
NOMAL HEIGHT	41.6mm
SET LENGTH	35.0mm
LIFT LENGTH	23.0mm
COMPRESSED HEIGHT	21.5mm
SET LOAD	27.0kgf ± 7%
LIFT LOAD	85.0kgf ± 7%
TOMEI PART NUMBER	163051

REQUIRED PARTS	
PRODUCT NAME	TOMEI PART NUMBER