

TOMEI Camshaft Spec Card

PART NAME **PONGAM / PROCAM** ENGINE **4B11**

PART NUMBER SET 143059 IN 146C260103 EX 146D250098

GRIND	IN	260° / 10.30mm	SOLID	BASE	IN	Φ34.4	ROCKER ARM RATIO*	VALVE CLEARANCE	IN	0.20
	EX	250° / 9.80mm	SOLID	CIRCLE(Φ)	EX	Φ36.4	-	WHEN COLD	EX	0.30

LIFT	IN	@CAM 10.30mm	@VALVE 10.10mm	LOBE	IN	112.0
	EX	@CAM 9.80mm	@VALVE 9.50mm	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	14.0	ABDC	66.0	260.0
Valve Lift	EX	BBDC	64.0	ATDC	6.0	260.0

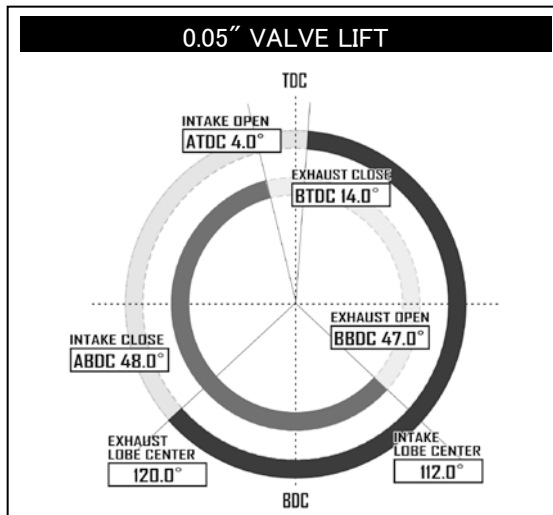
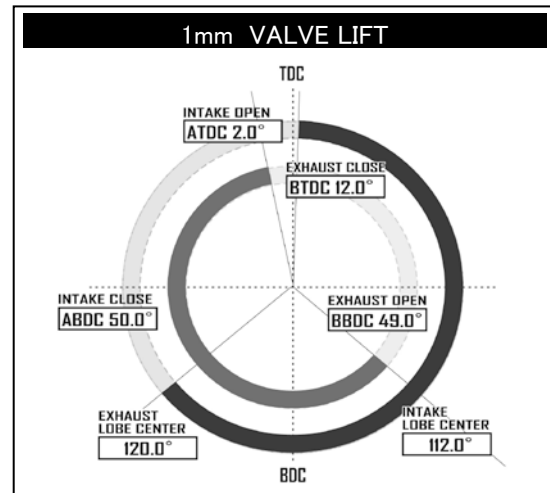
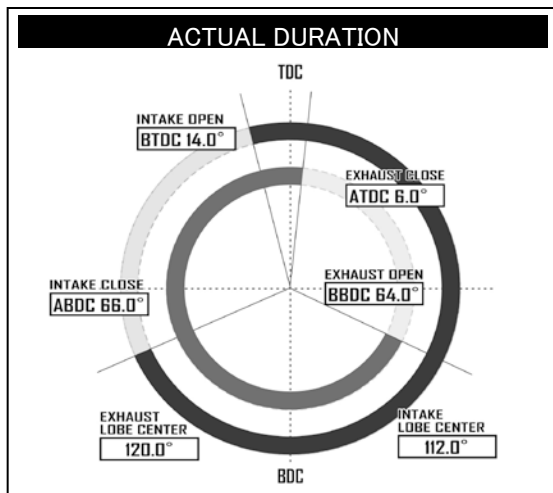
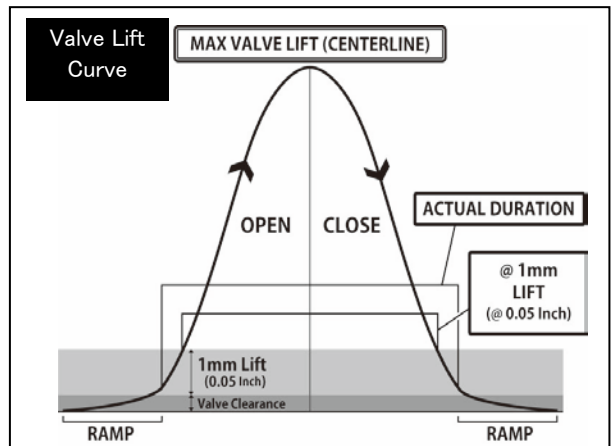
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

CAM TIMING		OPENS(°)		CLOSES(°)		TOTAL DURATION(°)
at 1mm	IN	ATDC	2.0	ABDC	50.0	228.0
Valve Lift	EX	BBDC	49.0	BTDC	12.0	217.0

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	4.0	ABDC	48.0	224.0
Valve Lift	EX	BBDC	47.0	BTDC	14.0	213.0

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