

# TOMEI Camshaft Spec Card

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

PART NUMBER **SET 143059** **IN 146C260103** **EX 146D250098**

GRIND **IN 260° / 10.30mm SOLID** **BACE 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

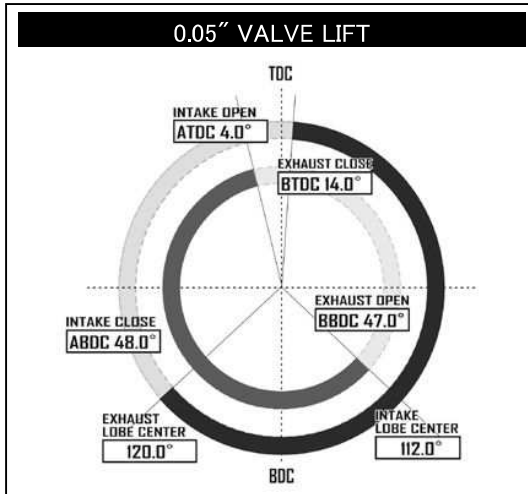
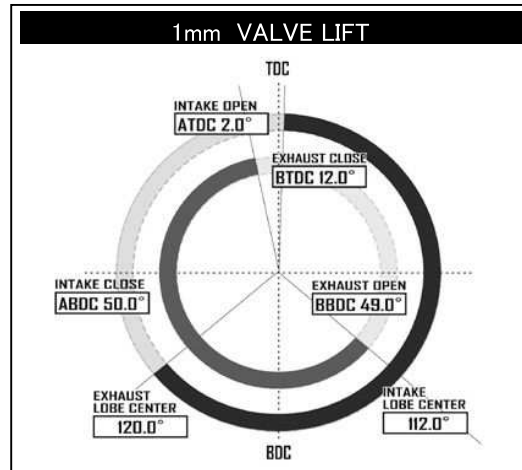
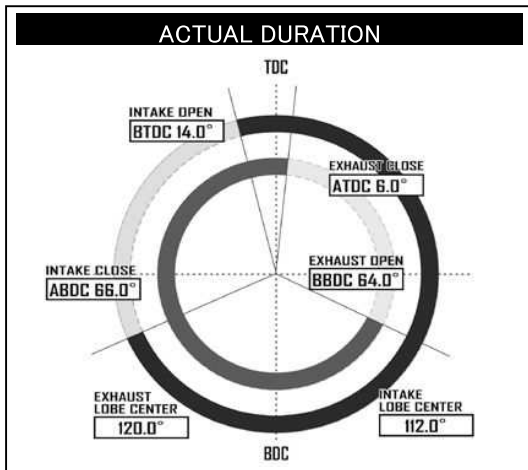
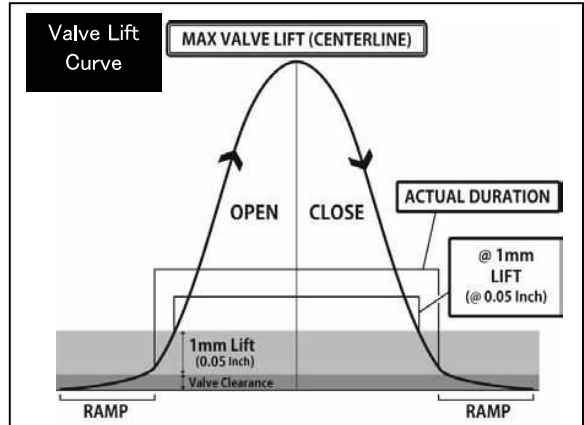
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

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