

TOMEI Camshaft Spec Card

PART NAME **PROCAM** ENGINE **VR38DETT**

PART NUMBER **SET** IN **142049** EX **142050**

GRIND IN **272° / 11.30mm -** BACE IN **Φ 35.4** ROCKER ARM RATIO* **-** VALVE CLEARANCE IN **0.30**
 EX **272° / 11.00mm -** CIRCLE(Φ) EX **Φ 35.4** WHEN COLD EX **0.33**

LIFT IN **@CAM 11.30mm @VALVE 11.00mm** LOBE IN **124.0**
 EX **@CAM 11.00mm @VALVE 10.67mm** CENTER(°) EX **115.0**

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

CAM TIMING		OPENS(°)		CLOSES(°)		Actual Duration @ Opening(°)
Actual Duration	IN	BTDC	12.0	ABDC	80.0	272.0
Valve Lift	EX	BBDC	71.0	ATDC	21.0	272.0

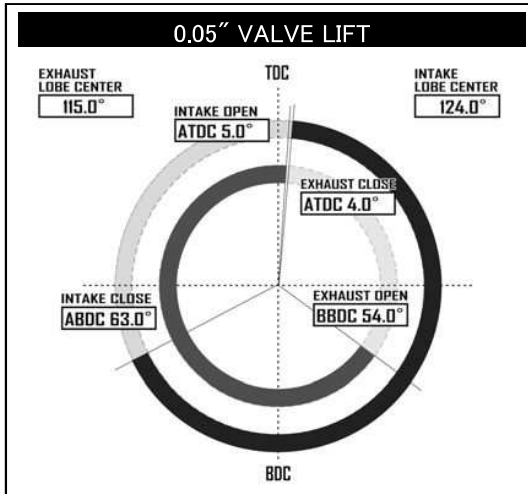
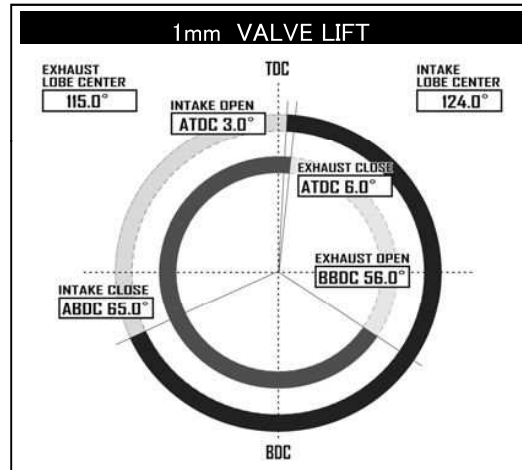
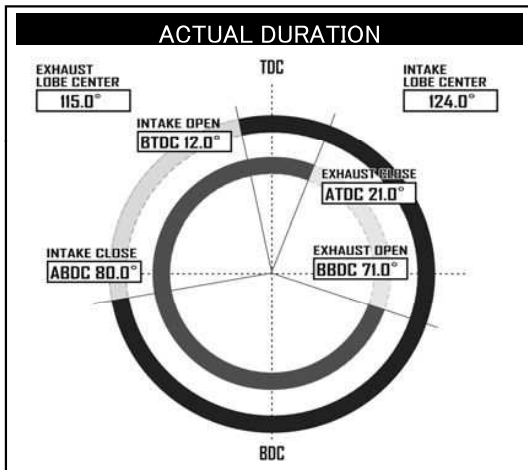
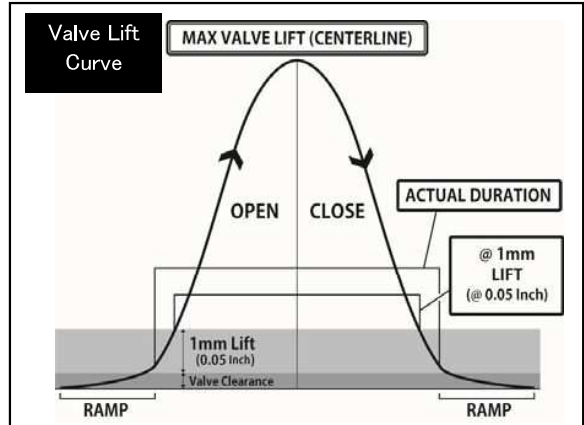
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

CAM TIMING		OPENS(°)		CLOSES(°)		TOTAL DURATION(°)
at 1mm	IN	ATDC	3.0	ABDC	65.0	242.0
Valve Lift	EX	BBDC	56.0	ATDC	6.0	242.0

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	5.0	ABDC	63.0	238.0
Valve Lift	EX	BBDC	54.0	ATDC	4.0	238.0

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



REQUIRED VALVE SPRING SPEC	
NOMAL HEIGHT	IN 45.1mm EX 46.2mm
SET LENGTH	IN 36.6mm EX 33.7mm
LIFT LENGTH	IN 25.4mm EX 22.5mm
COMPRESSED HEIGHT	IN 24.3mm EX 21.5mm
SET LOAD	IN 23.5kgf ± 7% EX 34.0kgf ± 7%
LIFT LOAD	IN 76.5kgf ± 7% EX 77.0kgf ± 7%
TOMEI PART NUMBER	163052

REQUIRED PARTS	
PRODUCT NAME	TOMEI PART NUMBER