

# TOMEI Camshaft Spec Card

The Engine Specialist

PART NAME PROCAM ENGINE VR38DETT

PART NUMBER SET TA301A-NS01C IN TA301C-NS01C EX TA301E-NS01C

GRIND	IN	282° /11.30mm	SOLID
	EX	282° /11.30mm	SOLID

LIFT	IN	@CAM 11.30mm	@VALVE 11.00mm
	EX	@CAM 11.30mm	@VALVE 10.97mm

LOBE CENTER(°)	IN	124.0
	EX	115.0

BASE CIRCLE	IN	Φ35.4
	EX	Φ35.4

VALVE CLEARANCE WHEN COLD	IN	0.30mm
	EX	0.33mm

ROCKER ARM RATIO*	-
-------------------	---

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

CAM TIMING		OPENS(°)	CLOSES(°)		Actual Duration @ Opening(°)
Actual Duration Valve Lift	IN	BTDC 16.0	ABDC 86.0	86.0	282.0
	EX	BBDC 75.0	ATDC 27.0	27.0	282.0

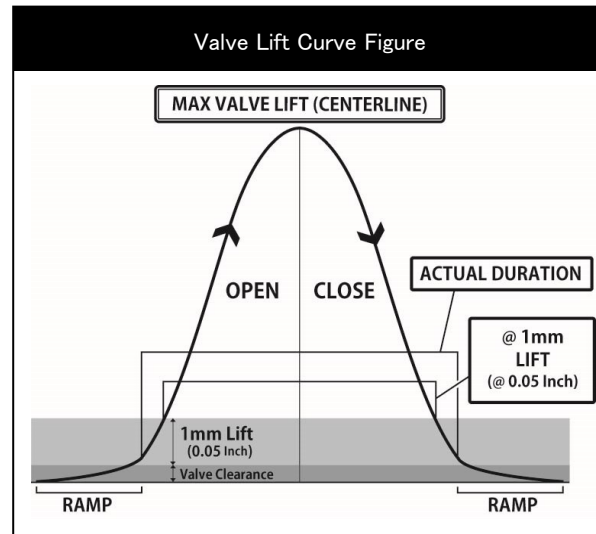
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

CAM TIMING		OPENS(°)	CLOSES(°)		TOTAL DURATION(°)
at 1mm Valve Lift	IN	BTDC 0.0	ABDC 70.0	70.0	250.0
	EX	BBDC 59.0	ATDC 11.0	11.0	250.0

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

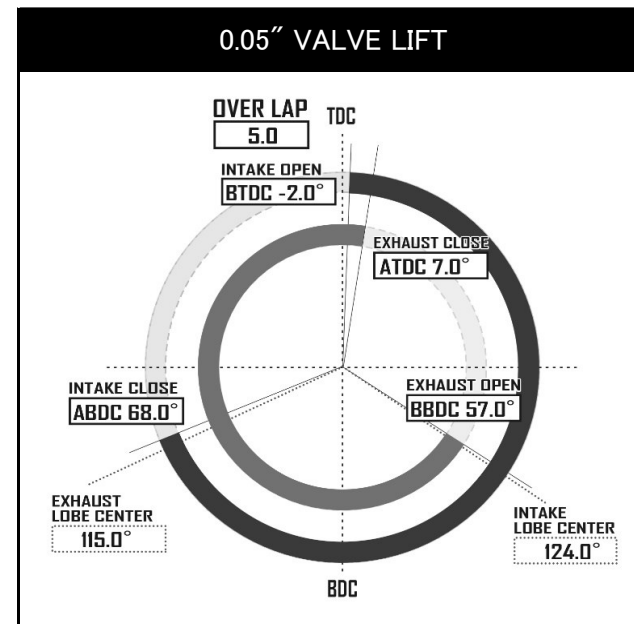
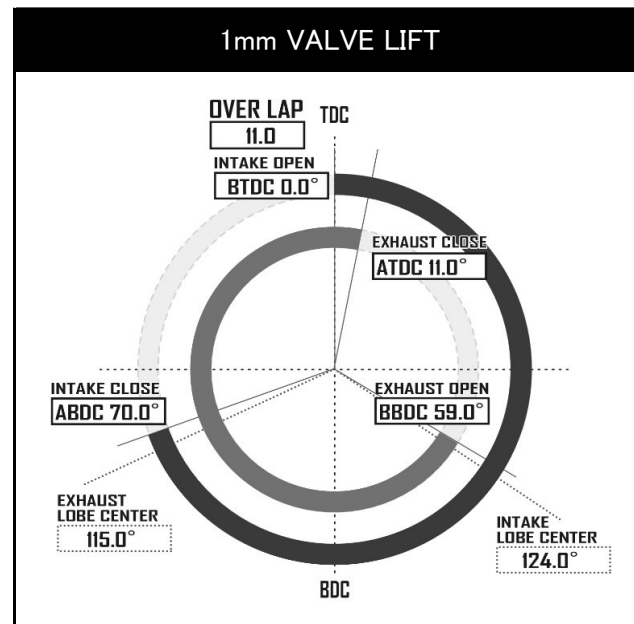
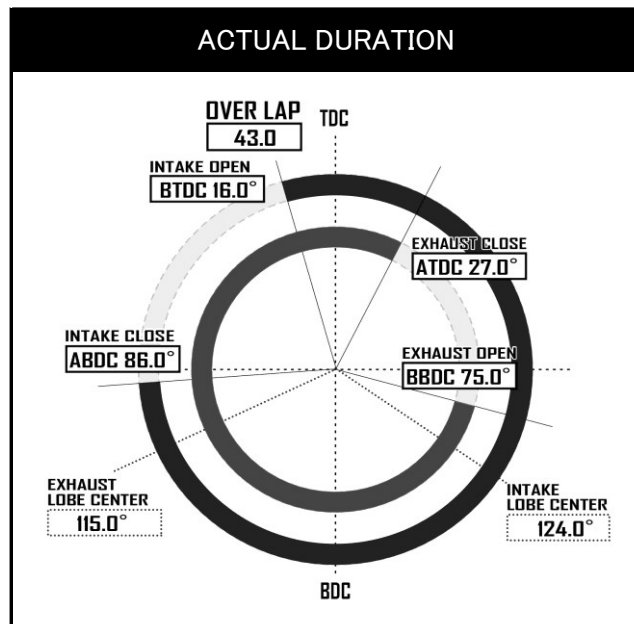
CAM TIMING		OPENS(°)	CLOSES(°)		TOTAL DURATION(°)
at 0.05" Valve Lift	IN	BTDC -2.0	ABDC 68.0	68.0	246.0
	EX	BBDC 57.0	ATDC 7.0	7.0	244.0

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



REQUIRED VALVE SPRING SPEC			
NORMAL HEIGHT	IN	45.1mm	EX 45.1mm
SET LENGTH	IN	36.6mm	EX 33.7mm
LIFT LENGTH	IN	25.6mm	EX 22.5mm
COMPRESSED HEIGHT	IN	21.7mm	EX 21.7mm
SET LOAD	IN	22.0kgf±6%	EX 32.0kgf±6%
LIFT LOAD	IN	60.0kgf±6%	EX 70.0kgf±6%
PART NUMBER	TA304A-NS01A		

REQUIRED PARTS	
PRODUCT NAME	PART NUMBER



Dowel pin position when first cam lobe is pointing upwards.

