

# TOMEI Camshaft Spec Card

PART NAME **PROCAM** ENGINE **VQ35HR**

PART NUMBER **SET** - **IN** 142045 **EX** 142046

GRIND **IN** 280° / 11.30mm - **BACE** **IN**  $\Phi$ 35.4 **ROCKER ARM RATIO\*** **VALVE CLEARANCE** **IN** 0.30  
**EX** 280° / 11.00mm - **CIRCLE( $\Phi$ )** **EX**  $\Phi$ 35.4 **WHEN COLD** **EX** 0.33

LIFT **IN** @CAM 11.30mm @VALVE 11.00mm **LOBE** **IN** 122.0  
**EX** @CAM 11.00mm @VALVE 10.67mm **CENTER(°)** **EX** 124.0

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

CAM TIMING		OPENS(°)	CLOSES(°)	Actual Duration @ Opening(°)
Actual Duration	<b>IN</b>	BTDC 18.0	ABDC 82.0	280.0
Valve Lift	<b>EX</b>	BBDC 84.0	ATDC 16.0	280.0

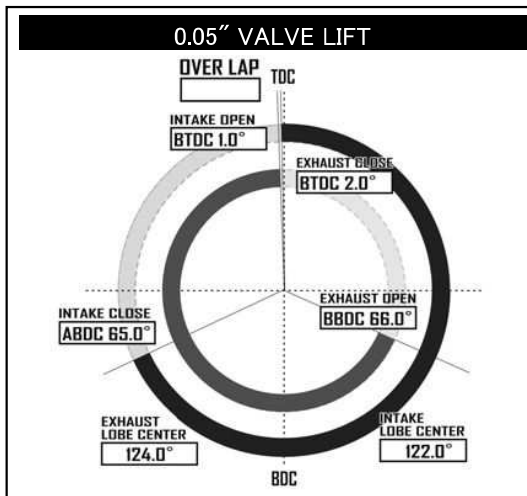
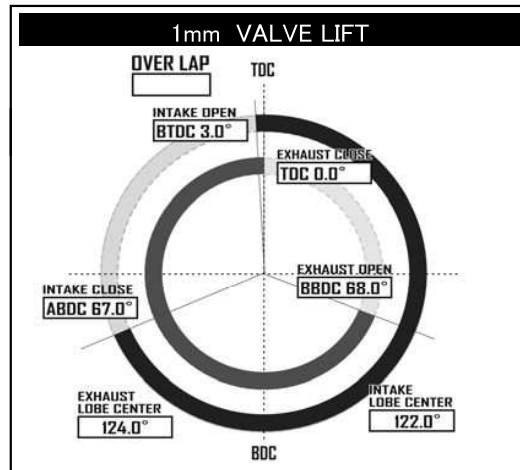
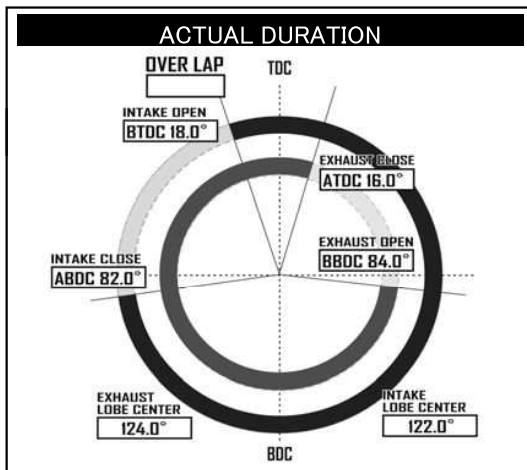
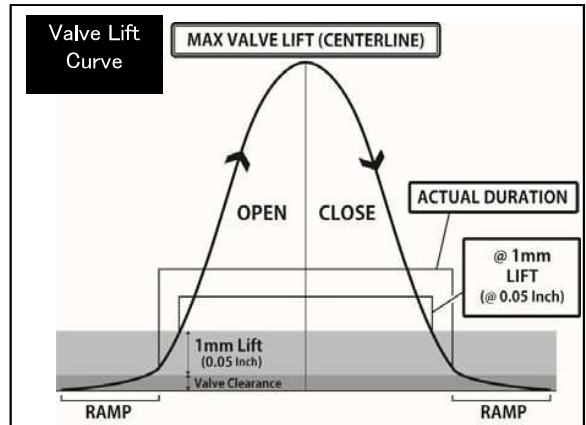
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

CAM TIMING		OPENS(°)	CLOSES(°)	TOTAL DURATION(°)
at 1mm	<b>IN</b>	BTDC 3.0	ABDC 67.0	250.0
Valve Lift	<b>EX</b>	BBDC 68.0	TDC	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"	<b>IN</b>	BTDC 1.0	ABDC 65.0	246.0
Valve Lift	<b>EX</b>	BBDC 66.0	BTDC 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	49.1
SET LENGTH	37.0
LIFT LENGTH	26.0
COMPRESSED HEIGHT	25.0
SET LOAD	24.0 ± 6%
LIFT LOAD	56.8 ± 6%
TOMEI PART NUMBER	163037

REQUIRED PARTS	
PRODUCT NAME	TOMEI PART NUMBER

**TOMEI**  
The Engine Specialist