

TOMEI Camshaft Spec Card

PART NAME **PROCAM** ENGINE **4G63 EVO 4-8 LASH**

PART NUMBER SET IN 1453290115 EX 4-6 : 1454290115 7-8 : 1455290115

| | | | | | | | | | | |
|-------|----|----------------|---|------|-----------|--------|-------------------|---------------------------|--------|------|
| GRIND | IN | 290° / 11.50mm | - | BACE | IN | Φ 30.0 | ROCKER ARM RATIO* | VALVE CLEARANCE WHEN COLD | IN | - |
| | EX | 290° / 11.50mm | - | | CIRCLE(Φ) | EX | | | Φ 30.0 | 1.73 |

| | | | | | | |
|------|----|-------------|----------------|----------------|----|-------|
| LIFT | IN | @CAM 6.65mm | @VALVE 11.50mm | LOBE CENTER(°) | IN | 110.0 |
| | EX | @CAM 6.65mm | @VALVE 11.50mm | | EX | 115.0 |

* 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 30.0 | ABDC 80.0 | 290.0 | |
| | EX | BBDC 85.0 | ATDC 25.0 | 290.0 | |

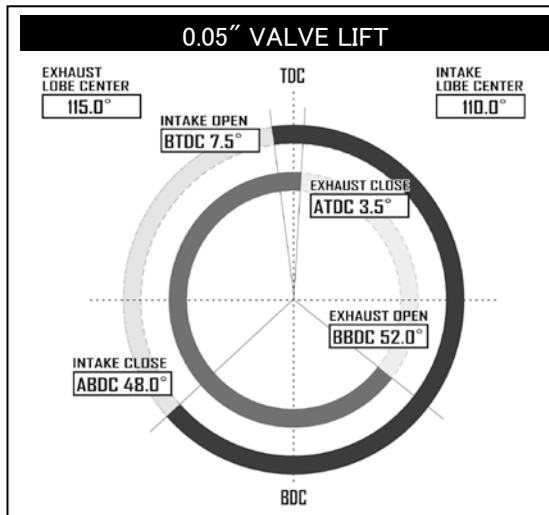
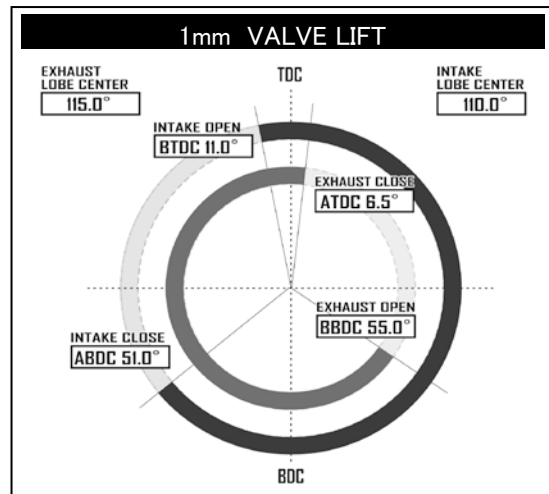
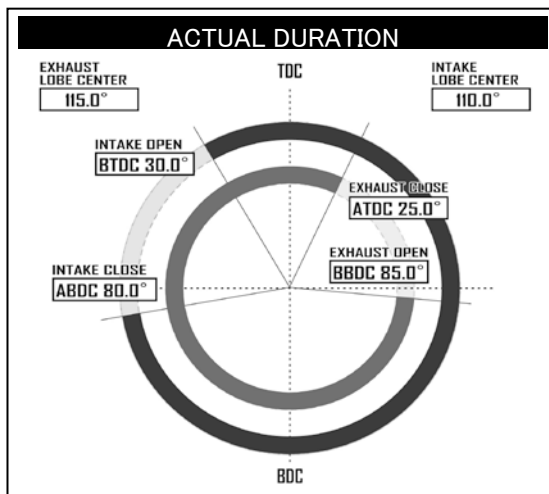
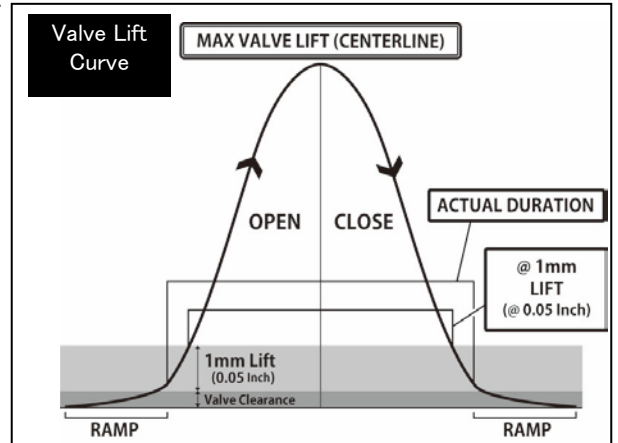
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

| CAM TIMING | | OPENS(°) | CLOSES(°) | TOTAL DURATION(°) | |
|-------------------|----|-----------|-----------|-------------------|--|
| at 1mm Valve Lift | IN | BTDC 11.0 | ABDC 51.0 | 242.0 | |
| | EX | BBDC 55.0 | ATDC 6.5 | 241.5 | |

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" Valve Lift | IN | BTDC 7.5 | ABDC 48.0 | 235.5 | |
| | EX | BBDC 52.0 | ATDC 3.5 | 235.5 | |

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



| REQUIRED VALVE SPRING SPEC | |
|----------------------------|--------------|
| NOMAL HEIGHT | 50.8mm |
| SET LENGTH | 39.6mm |
| LIFT LENGTH | 28.1mm |
| COMPRESSED HEIGHT | 27.1mm |
| SET LOAD | 33.6kgf ± 5% |
| LIFT LOAD | 81.7kgf ± 6% |
| TOMEI PART NUMBER | 163034 |

| REQUIRED PARTS | |
|----------------|-------------------|
| PRODUCT NAME | TOMEI PART NUMBER |
| | |
| | |
| | |
| | |
| | |