

# TOMEI Camshaft Spec Card

PART NAME **PROCAM** ENGINE **RB25DE(T) R33 Early Model**

PART NUMBER SET - IN **1417270092** EX **1418270092**

※ R33 Early / Late model compatible

|       |    |               |       |      |           |        |                   |   |                 |        |           |
|-------|----|---------------|-------|------|-----------|--------|-------------------|---|-----------------|--------|-----------|
| GRIND | IN | 270° / 9.25mm | SOLID | BACE | IN        | Φ 29.0 | ROCKER ARM RATIO* | - | VALVE CLEARANCE | IN     | 0.45      |
|       | EX | 270° / 9.25mm | SOLID |      | CIRCLE(Φ) | EX     |                   |   |                 | Φ 29.0 | WHEN COLD |

|      |    |             |               |      |           |       |
|------|----|-------------|---------------|------|-----------|-------|
| LIFT | IN | @CAM 9.25mm | @VALVE 8.80mm | LOBE | IN        | 110.0 |
|      | EX | @CAM 9.25mm | @VALVE 8.87mm |      | CENTER(°) | EX    |

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

| CAM TIMING      |    | OPENS(°)  | CLOSES(°) | Actual Duration @ Opening(°) |
|-----------------|----|-----------|-----------|------------------------------|
| Actual Duration | IN | BTDC 24.0 | ABDC 66.0 | 270.0                        |
| Valve Lift      | EX | BBDC 69.0 | ATDC 21.0 | 270.0                        |

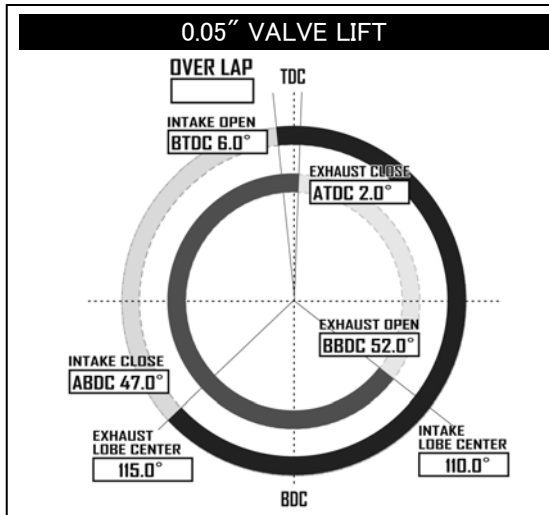
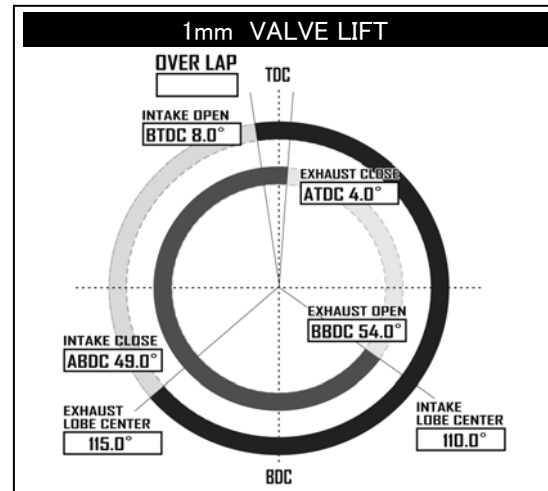
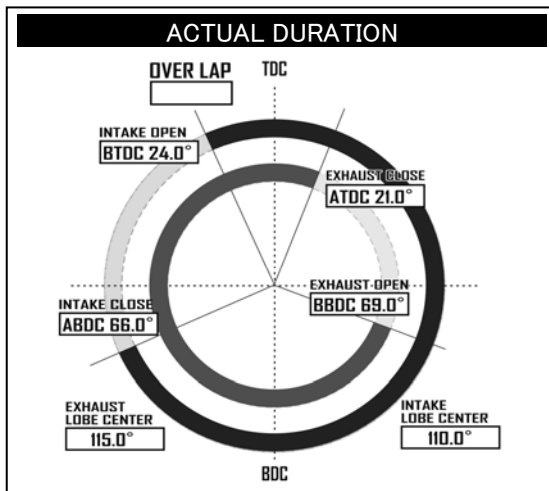
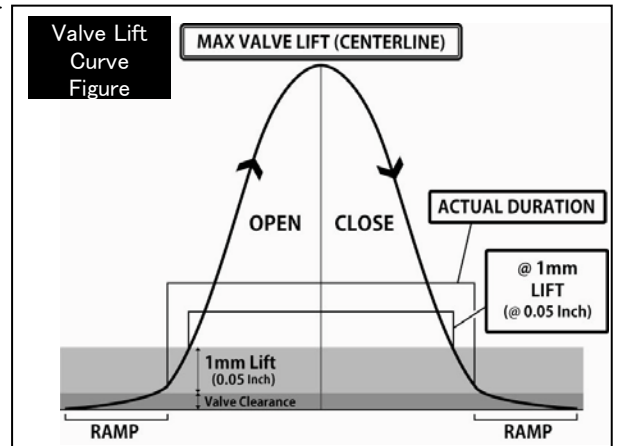
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

| CAM TIMING |    | OPENS(°)  | CLOSES(°) | TOTAL DURATION(°) |
|------------|----|-----------|-----------|-------------------|
| at 1mm     | IN | BTDC 8.0  | ABDC 49.0 | 237.0             |
| Valve Lift | EX | BBDC 54.0 | ATDC 4.0  | 238.0             |

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 | BTDC 6.0  | ABDC 47.0 | 233.0             |
| Valve Lift | EX | BBDC 52.0 | ATDC 2.0  | 234.0             |

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



| REQUIRED VALVE SPRING SPEC |    |           |
|----------------------------|----|-----------|
| NOMAL HEIGHT (mm)          | IN | 41.0      |
|                            | EX | 44.5      |
| SET LENGTH (mm)            |    | 35.0      |
| LIFT LENGTH (mm)           |    | 25.0      |
| COMPRESSED HEIGHT (mm)     |    | 24.0      |
| SET LOAD (kgf)             |    | 24.2 ± 7% |
|                            |    | 38.5      |
| LIFT LOAD (kgf)            |    | 80.6 ± 7% |
|                            |    | 72.0 ± 5% |
| TOMEI PART NUMBER          |    | 163022    |

| REQUIRED PARTS            |                   |
|---------------------------|-------------------|
| PRODUCT NAME              | TOMEI PART NUMBER |
| SOLID VALVE LIFTERS       | 163006            |
| SHIMS                     |                   |
| ADJUSTABLE CAM PULLEYS IN | 152009            |
| ADJUSTABLE CAM PULLEYS EX | 152010            |
| VALVE SPRINGS TYPE-B      | 163022            |