

# TOMEI Camshaft Spec Card

|           |        |  |  |        |           |  |  |
|-----------|--------|--|--|--------|-----------|--|--|
| PART NAME | PROCAM |  |  | ENGINE | RB20DE(T) |  |  |
|-----------|--------|--|--|--------|-----------|--|--|

|             |     |   |    |            |    |            |
|-------------|-----|---|----|------------|----|------------|
| PART NUMBER | SET | - | IN | 1417270102 | EX | 1418270102 |
|-------------|-----|---|----|------------|----|------------|

|       |    |                |       |      |           |        |                   |                    |        |
|-------|----|----------------|-------|------|-----------|--------|-------------------|--------------------|--------|
| GRIND | IN | 270° / 10.25mm | SOLID | BACE | IN        | Φ 29.0 | ROCKER ARM RATIO* | VALVE CLEARANCE IN | 0.45   |
|       | EX | 270° / 10.25mm | SOLID |      | CIRCLE(Φ) | EX     |                   |                    | Φ 29.0 |

|      |    |              |               |      |           |       |
|------|----|--------------|---------------|------|-----------|-------|
| LIFT | IN | @CAM 10.25mm | @VALVE 9.80mm | LOBE | IN        | 110.0 |
|      | EX | @CAM 10.25mm | @VALVE 9.87mm |      | 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                        |

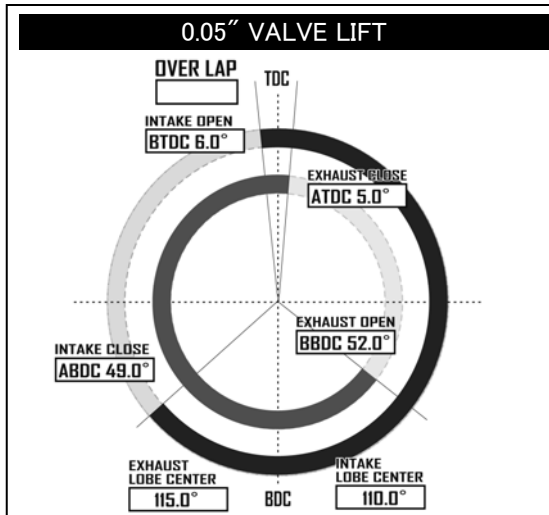
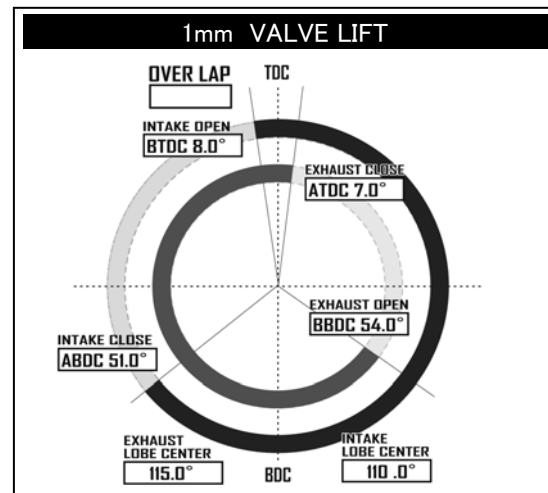
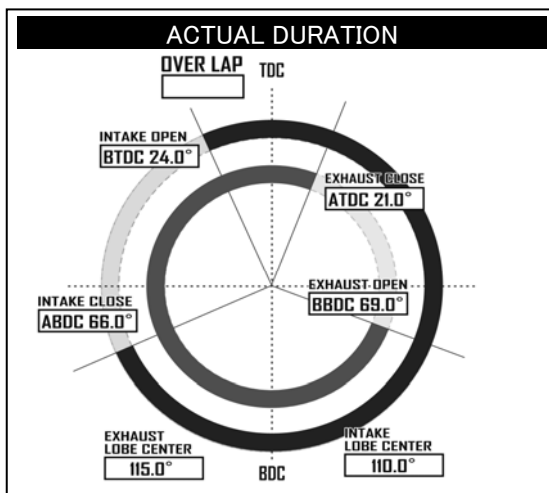
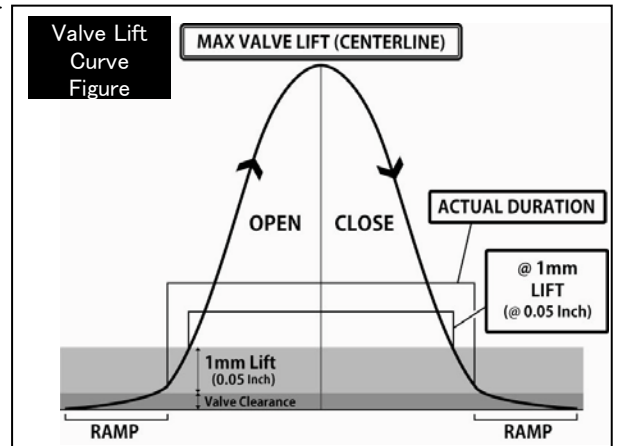
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

| CAM TIMING |    | OPENS(°)  | CLOSES(°) | TOTAL DURATION(°) |
|------------|----|-----------|-----------|-------------------|
| at 1mm     | IN | BTDC 8.0  | ABDC 51.0 | 239.0             |
| Valve Lift | EX | BBDC 54.0 | ATDC 7.0  | 241.0             |

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 49.0 | 235.0             |
| Valve Lift | EX | BBDC 52.0 | ATDC 5.0  | 237.0             |

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



| REQUIRED VALVE SPRING SPEC |           |
|----------------------------|-----------|
| NOMAL HEIGHT (mm)          | 41.0      |
| SET LENGTH (mm)            | 35.0      |
| LIFT LENGTH (mm)           | 25.0      |
| COMPRESSED HEIGHT (mm)     | 24.0      |
| SET LOAD (kgf)             | 24.2 ± 7% |
| LIFT LOAD (kgf)            | 80.6 ± 7% |
| TOMEI PART NUMBER          | 13203R800 |

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