

# TOMEI The Engine Specialist Camshaft Spec Card

PART NAME **PONCAM** ENGINE **1JZ-GTE VVT-i**

PART NUMBER SET **TA301A-TY04A** IN **TA301C-TY04A** EX **TA301E-TY04A**

|       |    |              |       |
|-------|----|--------------|-------|
| GRIND | IN | 260° /8.90mm | SOLID |
|       | EX | 260° /9.10mm | SOLID |

|      |    |             |               |
|------|----|-------------|---------------|
| LIFT | IN | @CAM 8.90mm | @VALVE 8.70mm |
|      | EX | @CAM 9.10mm | @VALVE 8.80mm |

|                |    |       |
|----------------|----|-------|
| LOBE CENTER(°) | IN | 119.0 |
|                | EX | 112.0 |

|        |    |       |
|--------|----|-------|
| BASE   | IN | Φ36.0 |
| CIRCLE | EX | Φ36.0 |

|                           |    |        |
|---------------------------|----|--------|
| VALVE CLEARANCE WHEN COLD | IN | 0.20mm |
|                           | EX | 0.30mm |

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

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

| CAM TIMING      |    | OPENS(°) |      | CLOSES(°) |      | Actual Duration @ Opening(°) |
|-----------------|----|----------|------|-----------|------|------------------------------|
| Actual Duration | IN | BTDC     | 11.0 | ABDC      | 69.0 | 260.0                        |
| Valve Lift      | EX | BBDC     | 62.0 | ATDC      | 18.0 | 260.0                        |

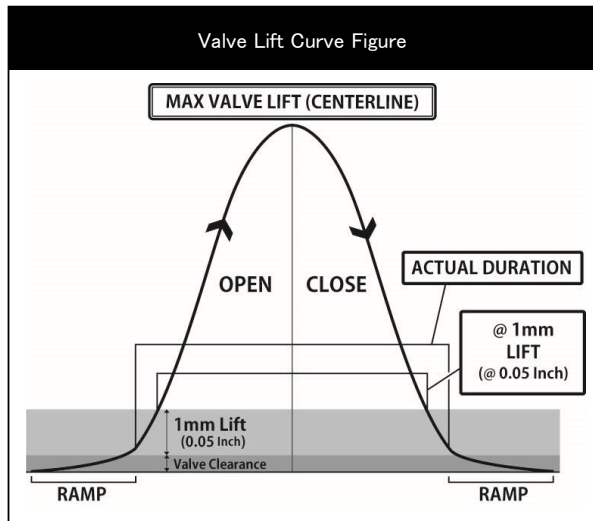
Values shown are, from start to the end of actual duration. (Excluding the ramp values)

| CAM TIMING        |    | OPENS(°) |      | CLOSES(°) |      | TOTAL DURATION(°) |
|-------------------|----|----------|------|-----------|------|-------------------|
| at 1mm Valve Lift | IN | ATDC     | 5.0  | ABDC      | 53.0 | 228.0             |
|                   | EX | BBDC     | 46.0 | ATDC      | 0.0  | 226.0             |

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

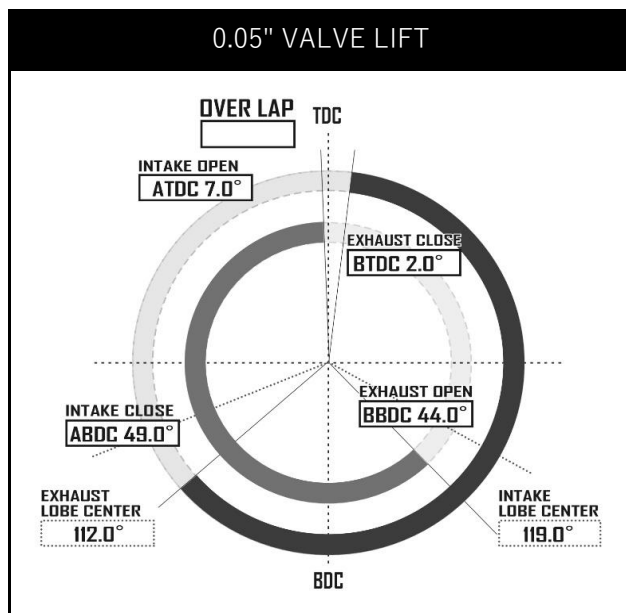
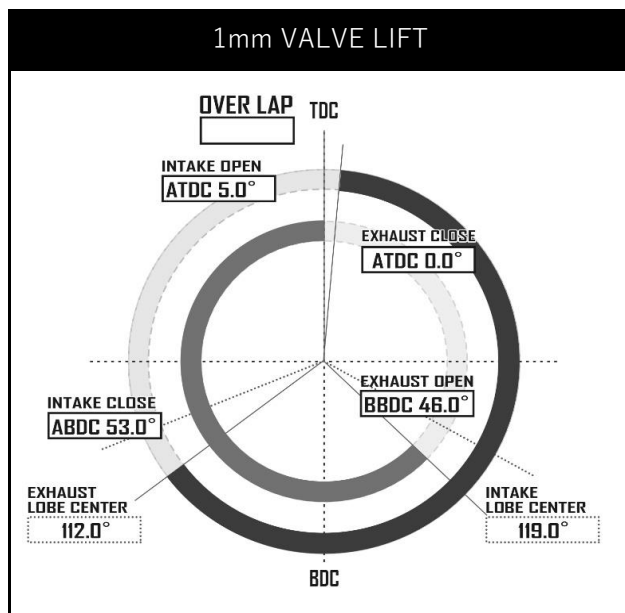
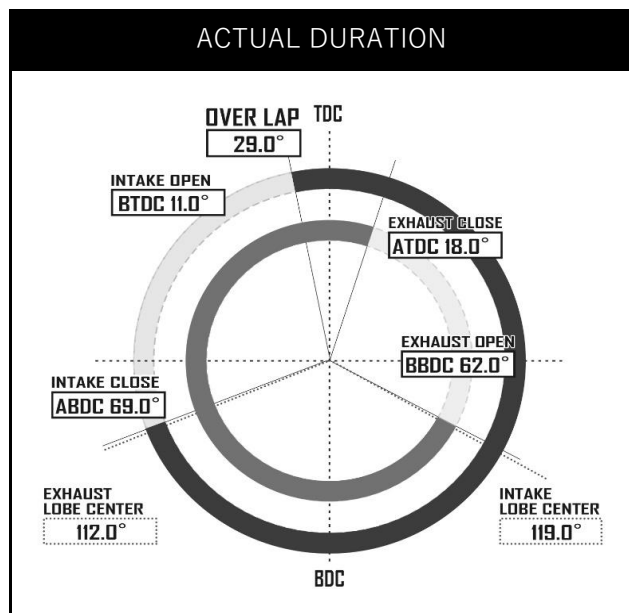
| CAM TIMING          |    | OPENS(°) |      | CLOSES(°) |      | TOTAL DURATION(°) |
|---------------------|----|----------|------|-----------|------|-------------------|
| at 0.05" Valve Lift | IN | ATDC     | 7.0  | ABDC      | 49.0 | 222.0             |
|                     | EX | BBDC     | 44.0 | BTDC      | 2.0  | 222.0             |

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

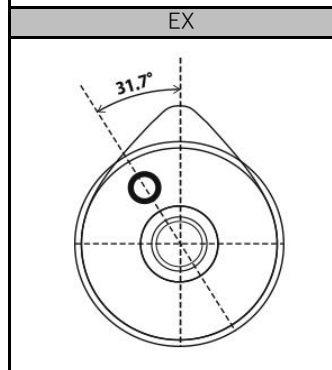
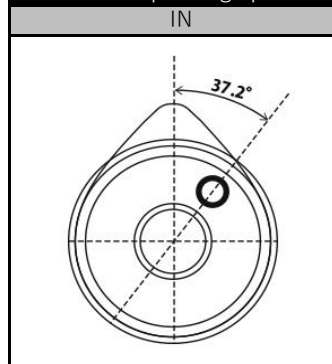


| REQUIRED VALVE SPRING SPEC |  |
|----------------------------|--|
| NORMAL HEIGHT              |  |
| SET LENGTH                 |  |
| LIFT LENGTH                |  |
| COMPRESSED HEIGHT          |  |
| SET LOAD                   |  |
| LIFT LOAD                  |  |
| PART NUMBER                |  |

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



Dowel pin position when first cam lobe is pointing upwards.



# TOMEI Camshaft Spec Card

The Engine Specialist

品名 **PONCAM** 適合 **1JZ-GTE VVT-i**

品番 SET TA301A-TY04A IN TA301C-TY04A EX TA301E-TY04A

|      |    |              |       |
|------|----|--------------|-------|
| スペック | IN | 260° /8.90mm | SOLID |
|      | EX | 260° /9.10mm | SOLID |

|     |    |             |               |
|-----|----|-------------|---------------|
| リフト | IN | @CAM 8.90mm | @VALVE 8.70mm |
|     | EX | @CAM 9.10mm | @VALVE 8.80mm |

|                |    |       |
|----------------|----|-------|
| 初期設定<br>中心角(°) | IN | 119.0 |
|                | EX | 112.0 |

|      |    |       |
|------|----|-------|
| ベース円 | IN | Φ36.0 |
|      | EX | Φ36.0 |

|                  |    |        |
|------------------|----|--------|
| 冷間時<br>バルブクリアランス | IN | 0.20mm |
|                  | EX | 0.30mm |

|             |   |
|-------------|---|
| ロッカーアームレシオ* | - |
|-------------|---|

\*すべてのリフト値はラッシュアジャスターが動作していない時、およびロッカーアームレシオから計算した理論値です。

| カムタイミング         |    | OPENS(°) |      | CLOSES(°) |      | Actual Duration @ Opening(°) |
|-----------------|----|----------|------|-----------|------|------------------------------|
| 有効作用角<br>バルブリフト | IN | BTDC     | 11.0 | ABDC      | 69.0 | 260.0                        |
|                 | EX | BBDC     | 62.0 | ATDC      | 18.0 | 260.0                        |

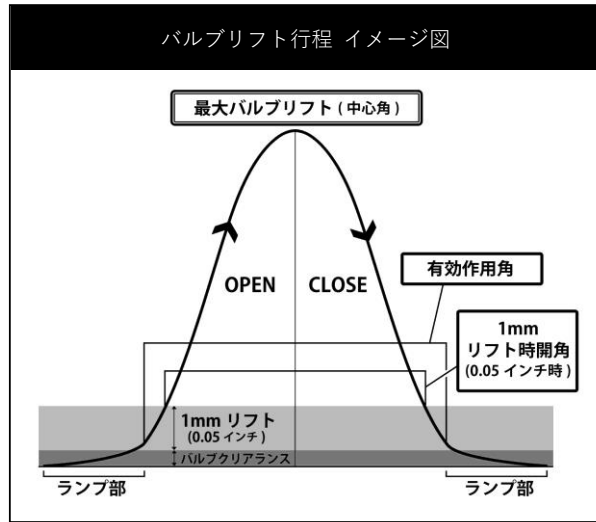
ランブ部を除いた有効作用角の始点と終点の数値

| カムタイミング       |    | OPENS(°) |      | CLOSES(°) |      | TOTAL DURATION(°) |
|---------------|----|----------|------|-----------|------|-------------------|
| 1mm<br>バルブリフト | IN | ATDC     | 5    | ABDC      | 53.0 | 228.0             |
|               | EX | BBDC     | 46.0 | ATDC      | 0.0  | 226.0             |

ランブ部を含めたバルブの開き始めと閉じ終わりから1mmの点での数値

| カムタイミング         |    | OPENS(°) |      | CLOSES(°) |      | TOTAL DURATION(°) |
|-----------------|----|----------|------|-----------|------|-------------------|
| 0.05"<br>バルブリフト | IN | ATDC     | 7.0  | ABDC      | 49.0 | 222.0             |
|                 | EX | BBDC     | 44.0 | BTDC      | 2.0  | 222.0             |

ランブ部を含めたバルブの開き始めと閉じ終わりから0.05インチの点での数値



| 推奨バルブスプリング |  |
|------------|--|
| 自由長        |  |
| セット長       |  |
| リフト長       |  |
| 密着長        |  |
| セット荷重      |  |
| リフト荷重      |  |
| 品番         |  |

| 必要部品 |    |
|------|----|
| 製品名  | 品番 |
|      |    |
|      |    |
|      |    |
|      |    |
|      |    |
|      |    |

第1カム山をトップ位置にした際の  
ノックピン位置

