

4000331

turbo conversion

Mercedes M102 cosworth

I-4cyl 2.3L 16v DOHC (DT/DT)



intake **exhaust**

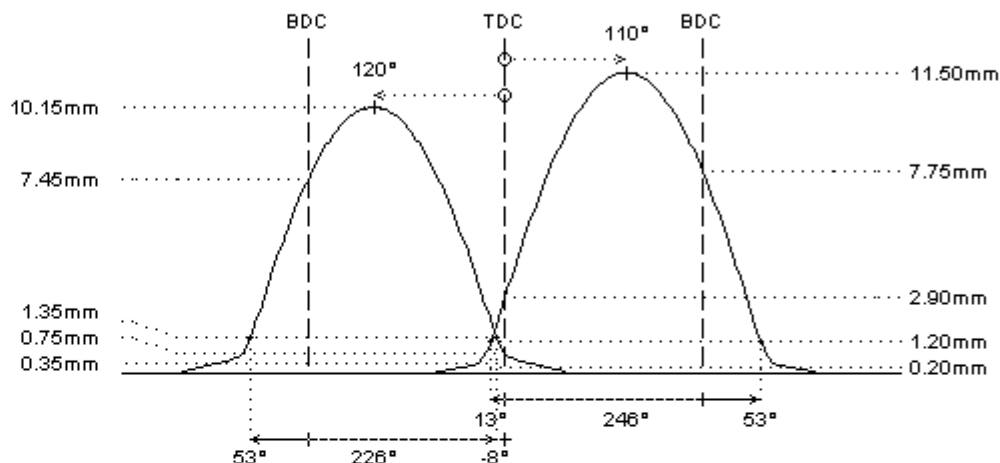
camshaft data:

| | | |
|------------------|-------------|-----------|
| lash ramp | : 0.20mm | 0.35mm |
| duration @ 0.1mm | : 278° | 270° |
| duration @ 1.0mm | : 246° | 225° |
| valve lift | : 11.50mm | 10.15mm |
| cam lift | : | |
| lobe angle | : 110° | 120° |
| timing @ 1.0mm | : 13° / 53° | 53° / -8° |
| valve lift @ TDC | : 2.90mm | 0.75mm |

parts setup:

| | | |
|----------------------|------------------|------------------|
| cam wheels : | : | : |
| follower | : CC007 | : CC007 |
| valve lash | : O.E.M. | : O.E.M. |
| valve | : O.E.M. | : O.E.M. |
| valve locks | : O.E.M. | : O.E.M. |
| upper retainer | : 99310 | : 99310 |
| lower retainer | : O.E.M. | : O.E.M. |
| exterior spring | : PAC-E12009 | : PAC-E12009 |
| interior spring | : PAC-I12009 | : PAC-I12009 |
| | : | : |
| fitted load / length | : 32kg @ 33.5mm | : 32kg @ 33.5mm |
| max. load / lift | : 102kg @ 14.0mm | : 102kg @ 14.0mm |

REMARKS :



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- # - steel billet camshafts
- front bearing / gear assembly not available
- camshafts also fit 2.5L engine

- # FOR COMPETITION APPLICATIONS ONLY. Following details must be verified:
 - the camshafts must turn smooth in the cylinderhead, provide free travel by machining where needed
 - distance between valve seal and retainer at full lift must be 0.6mm at least
 - minimum valve spring travel of 1.0mm at full lift must be provided
 - distance between valve and piston 1.0mm (pref. 1.5mm). check 5-15° before TDC on exhaust, and after TDC on intake

- # for TURBO conversion (atmospheric to turbo)