

7105139

tarmac rally - race

Toyota 4A-GE

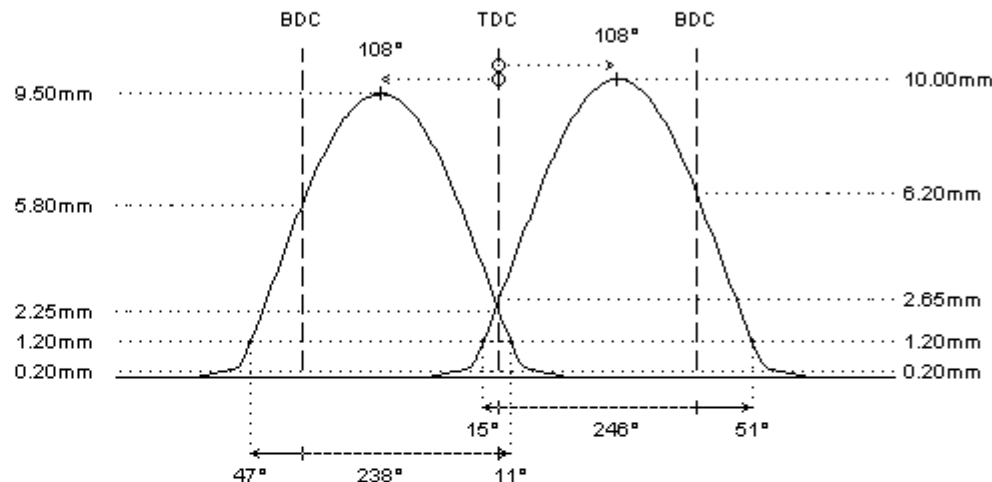
I-4cyl 1.6L 16v DOHC (DTs/DTs)



| | intake | exhaust |
|-----------------------|-----------------|-----------------|
| camshaft data: | | |
| lash ramp | : 0.20mm | 0.20mm |
| duration @ 0.1mm | : 275° | 267° |
| duration @ 1.0mm | : 246° | 238° |
| valve lift | : 10.00mm | 9.50mm |
| cam lift | : 10.00mm | 9.50mm |
| lobe angle | : 108° | 108° |
| timing @ 1.0mm | : 15° / 51° | 47° / 11° |
| valve lift @ TDC | : 2.65mm | 2.25mm |
| parts setup: | | |
| cam wheels : | : CTT0018 | : CTT0018 |
| follower | : O.E.M. | : O.E.M. |
| 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 | : 99372/s | : 99372/s |
| lower retainer | : remove | : remove |
| exterior spring | : PAC-E99862 | : PAC-E99862 |
| interior spring | | |
| | | |
| fitted load / length | : 33kg @ 34.0mm | : 37kg @ 33.0mm |
| max. load / lift | : 87kg @ 12.5mm | : 87kg @ 11.5mm |

REMARKS :

retainers [ref. 99372] can only be used with original followers



REMARKS :

- # 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
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors