

7105149

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	: 278°	268°
duration @ 1.0mm	: 246°	238°
valve lift	: 11.15mm	10.70mm
cam lift	:	
lobe angle	: 108°	108°
timing @ 1.0mm	: 15° / 51°	47° / 11°
valve lift @ TDC	: 2.95mm	2.45mm

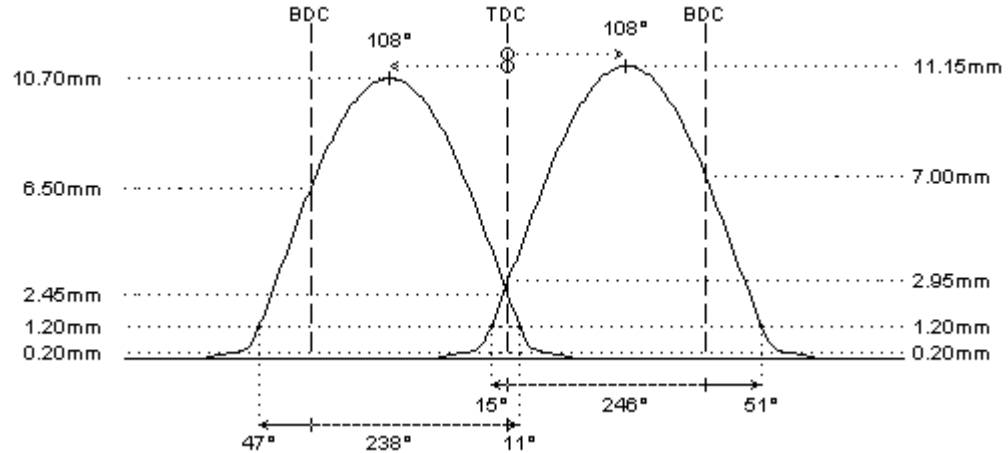
parts setup:

cam wheels :	: CTTO018	: CTTO018
follower	: CC020	: CC020
valve lash	: N/A	: N/A
valve	: O.E.M.	: O.E.M.
valve locks	: O.E.M.	: O.E.M.
upper retainer	: 99373/s	: 99373/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 :

STD followers MUST be replaced by race followers [ref. CC020] with # effective contact area of 28mm
followers [ref. CC020] can only be used with retainers [ref. 99373]
(lash adjustment shim centered in retainer, see picture)



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