

# 7105140

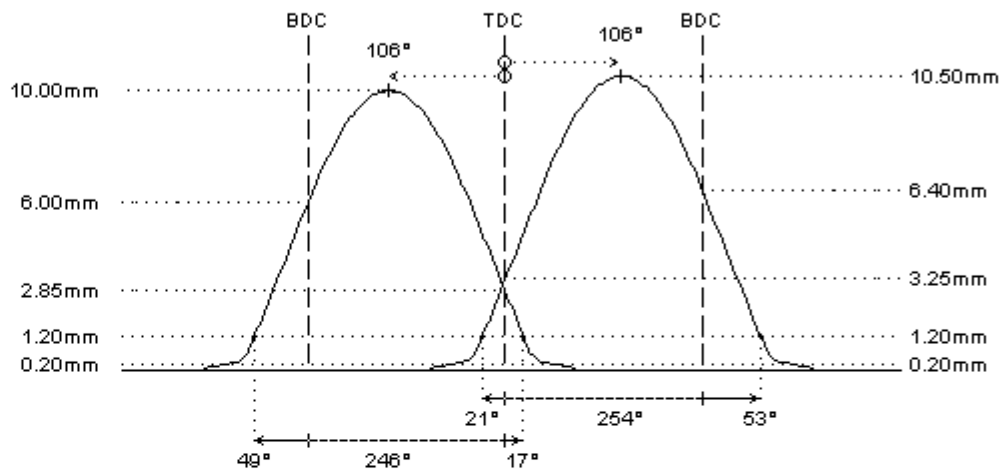
tarmac rally - race

Toyota 4A-GE

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



	intake	exhaust
<b>camshaft data:</b>		
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 285°	275°
duration @ 1.0mm	: 254°	246°
valve lift	: 10.50mm	10.00mm
cam lift	: 10.50mm	10.00mm
lobe angle	: 106°	106°
timing @ 1.0mm	: 21° / 53°	49° / 17°
valve lift @ TDC	: 3.25mm	2.85mm
<b>parts setup:</b>		
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 :

- # 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

### REMARKS :

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