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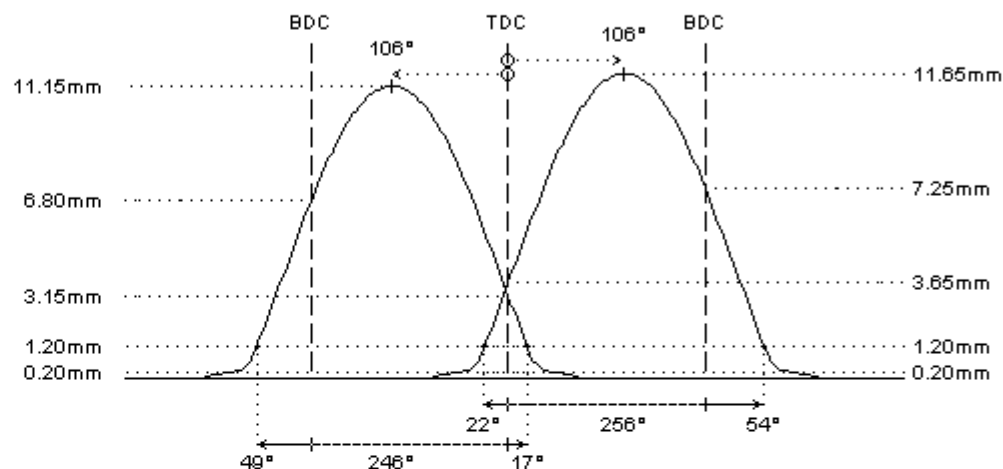
tarmac rally - race

Toyota 4A-GE

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



	intake	exhaust
camshaft data:		
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 287°	278°
duration @ 1.0mm	: 256°	246°
valve lift	: 11.65mm	11.15mm
cam lift	:	
lobe angle	: 106°	106°
timing @ 1.0mm	: 22° / 54°	49° / 17°
valve lift @ TDC	: 3.65mm	3.15mm
parts setup:		
cam wheels :	CTT0018	CTT0018
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/H	99373/H
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 :

- # 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)