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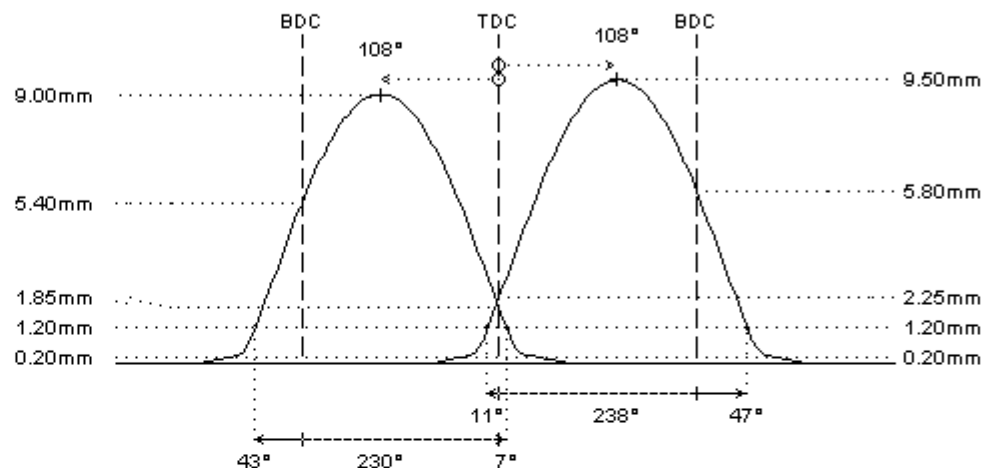
hot street - dirt track

Toyota 4A-GE

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



	intake	exhaust
camshaft data:		
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 267°	262°
duration @ 1.0mm	: 238°	230°
valve lift	: 9.50mm	9.00mm
cam lift	: 9.50mm	9.00mm
lobe angle	: 108°	108°
timing @ 1.0mm	: 11° / 47°	43° / 7°
valve lift @ TDC	: 2.25mm	1.85mm
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 :

- # 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