

# 7107029

tarmac rally - race

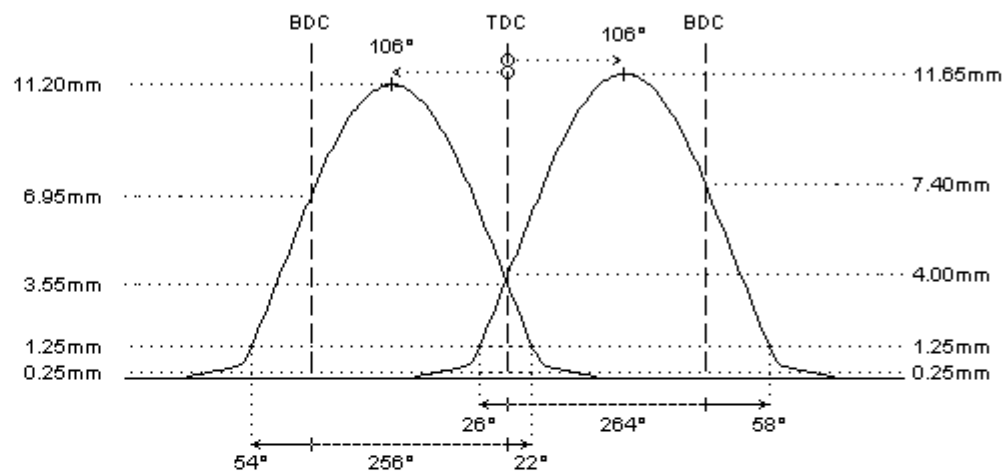
Toyota 3S-GE 2nd gen

I-4cyl 2.0L 16v DOHC (DTs/DTs)



	intake	exhaust
<b>camshaft data:</b>		
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 310°	302°
duration @ 1.0mm	: 264°	256°
valve lift	: 11.65mm	11.20mm
cam lift	: 11.65mm	11.20mm
lobe angle	: 106°	106°
timing @ 1.0mm	: 26° / 58°	54° / 22°
valve lift @ TDC	: 4.00mm	3.55mm
<b>parts setup:</b>		
cam wheels :	:	:
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	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	:  PAC-S90019	:  PAC-S90019
interior spring	:	:
fitted load / length	: 36kg @ 34.0mm	: 36kg @ 34.0mm
max. load / lift	: 85kg @ 12.0mm	: 85kg @ 12.0mm

REMARKS :



### REMARKS :

- # camshafts for 2nd generation 3S-GE engines. Please check following dimensions before ordering:
  - cam base diameter: 28mm
  - cam follower diameter: 31.0mm
  - shim diameter: 28.0mm (between cam and follower)
- # 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