

# 7107184

full race

Toyota 3S-GE 3rd gen

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



**intake**                      **exhaust**

**camshaft data:**

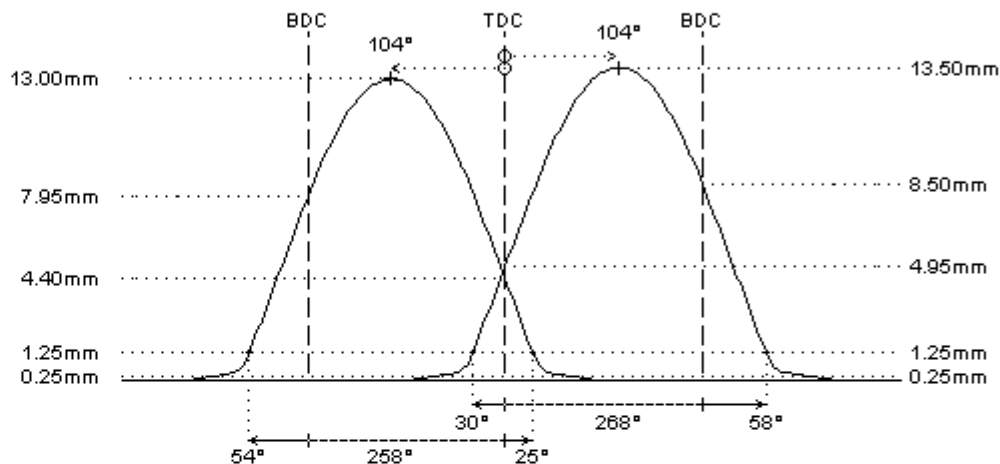
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 307°	292°
duration @ 1.0mm	: 268°	259°
valve lift	: 13.50mm	13.00mm
cam lift	:	
lobe angle	: 104°	104°
timing @ 1.0mm	: 30° / 58°	54° / 25°
valve lift @ TDC	: 4.95mm	4.40mm

**parts setup:**

cam wheels :	:  CTT0026	:  CTT0026
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	: 30kg @ 35.7mm	: 30kg @ 35.7mm
max. load / lift	: 79kg @ 12.5mm	: 79kg @ 12.5mm

**REMARKS :**



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- # camshafts for 3rd generation 3S-GE engines. Please check following dimensions before ordering:
  - cam base diameter: 32.5mm
  - cam follower diameter: 31.0mm
  - shim diameter: 13.0mm (between valve and cam 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