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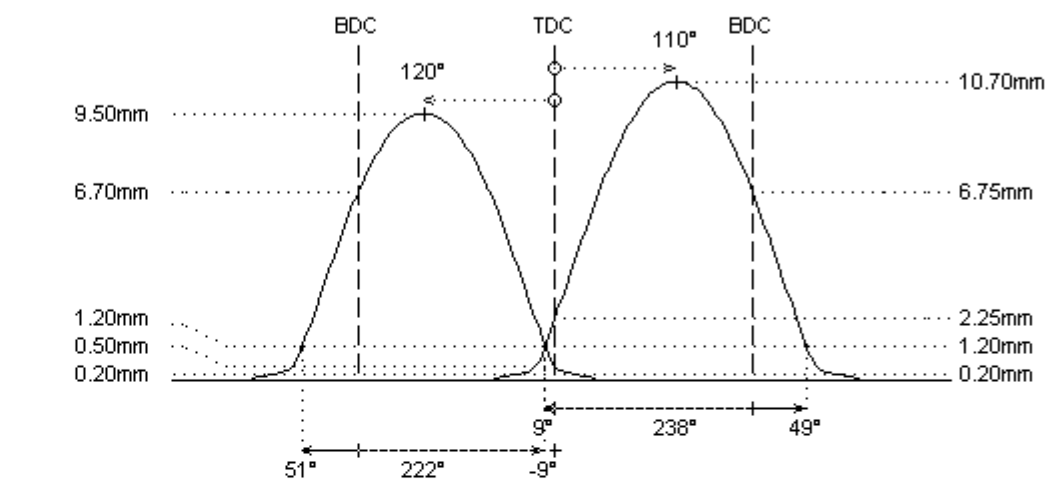
Toyota 3S-GE 2nd gen

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



	intake	exhaust
camshaft data:		
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 268°	254°
duration @ 1.0mm	: 238°	222°
valve lift	: 10.70mm	9.50mm
cam lift	: 10.70mm	9.50mm
lobe angle	: 110°	120°
timing @ 1.0mm	: 9° / 49°	51° / -9°
valve lift @ TDC	: 2.25mm	0.50mm
parts setup:		
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 :



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- # camshafts for 2nd generation 3S-GE engines. Please check following dimensions before ordering:
 - cam base diameter: 28mm or 32.5mm, check before ordering
 - cam follower diameter: 31.0mm
 - shim diameter: 28.0mm (between cam and follower)
- # When upgrading from "shim over tappet (28mm contact area)" to "shim under tappet (31mm contact area)", 3rd generation profiles can be used. Please note that you need to convert the tappet, spring and retainer!
- # 3 generations exist in the TOYOTA 3S-GE engine:
 - 1st generation: 28mm tappet with 25mm shim between cam and follower (base circle diameter 28mm)
 - 2nd generation: 31mm tappet with 28mm shim between cam and follower (base circle diameter 28mm)
 - 3rd generation: 31mm tappet with 13mm shim between follower and valve (base circle diameter 32.5mm)

! When ordering please make sure to order the camshaft that fits your application of followers and base circle diameter. 1st generation camshafts are only available on special request
- # Different evolutions exist in every TOYOTA 3S-GE generation. Please indicate engine generation and cam lift when ordering
- # ONLY for dirt track applications and pro street use with adjustable engine management or carburetors