

# 7106905

tarmac rally - race

Toyota 3S-GE 1st gen

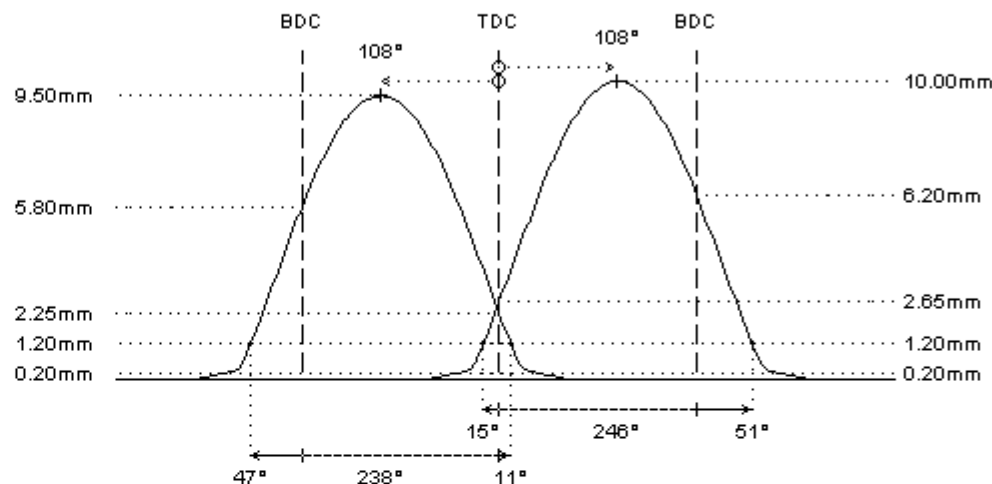
I-4cyl 2.0L 16v DOHC (DTs/DTs)



	intake	exhaust
<b>camshaft data:</b>		
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 275°	267°
duration @ 1.0mm	: 246°	238°
valve lift	: 10.00mm	9.50mm
cam lift	: 10.00mm	9.50mm
lobe angle	: 108°	108°
timing @ 1.0mm	: 15° / 51°	47° / 11°
valve lift @ TDC	: 2.65mm	2.25mm
<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	: <b>✗ not available</b>	: <b>✗ not available</b>
lower retainer	: <b>✗ not available</b>	: <b>✗ not available</b>
exterior spring	: <b>✗ not available</b>	: <b>✗ not available</b>
interior spring	:	:
fitted load / length	: 0kg @ 0.0mm	: 0kg @ 0.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

### REMARKS :

- # check std valve spring setup for coil bind length and use valve spring kit if required
- # valve spring kit can be developed on request



### REMARKS :

- # camshafts for 1st generation 3S-GE engines. Please check following dimensions before ordering:
  - cam base diameter: 28.0mm
  - cam follower diameter: 28.0mm
  - shim diameter: 25.0mm (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