

# 7671311

tarmac rally - race

Volkswagen 9A 136hp

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



**intake**                      **exhaust**

### camshaft data:

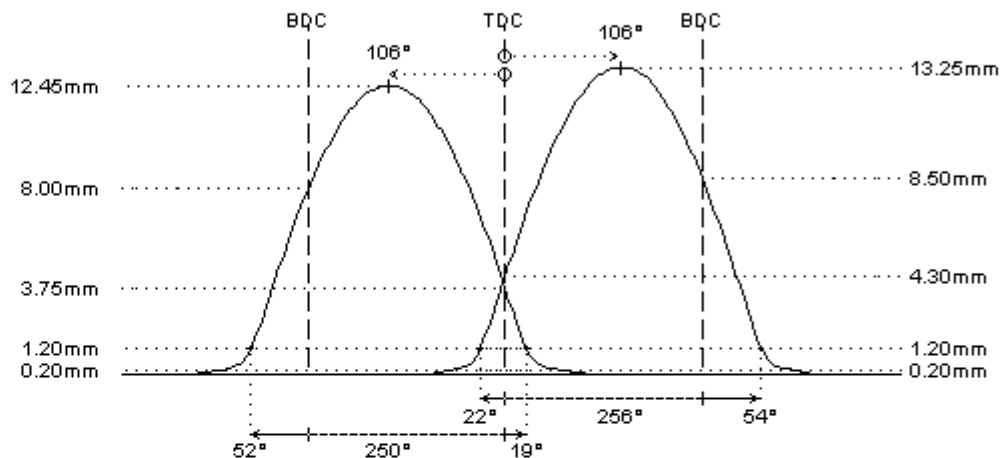
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 299°	292°
duration @ 1.0mm	: 256°	251°
valve lift	: 13.25mm	12.45mm
cam lift	:	
lobe angle	: 106°	106°
timing @ 1.0mm	: 22° / 54°	52° / 19°
valve lift @ TDC	: 4.30mm	3.75mm

### parts setup:

cam wheels :	:  TVW033	:  CTVW006
follower	:  CC005	:  CC005
valve lash	:  TS102	:  TS102
valve	: O.E.M.	: O.E.M.
valve locks	: O.E.M.	: O.E.M.
upper retainer	: 99370	: 99370
lower retainer	:  not available	:  not available
exterior spring	:  PAC-E15009	:  PAC-E15009
interior spring	:  PAC-I15009	:  PAC-I15009
fitted load / length	: 37kg @ 34.5mm	: 37kg @ 34.5mm
max. load / lift	: 114kg @ 14.0mm	: 114kg @ 14.0mm

### REMARKS :

- # check distance between valve seal and retainer to be at least 0.6mm at full lift
- # ONLY for 7mm valves with single groove (RK-7H valve keepers)



### REMARKS :

- # - cast iron camshafts
- # - valve clearance is to be adjusted using mechanical lash caps  
- please make sure that the lash cap does not touch the valve locks !
- # 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