

7608135

tarmac rally - race

Volkswagen AER, ALL 50hp

I-4cyl 1.0L 8v SOHC (DTH/DTH)



intake exhaust

camshaft data:

lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 307°	307°
duration @ 1.0mm	: 268°	268°
valve lift	: 13.00mm	13.00mm
cam lift	:	
lobe angle	: 106°	106°
timing @ 1.0mm	: 28° / 60°	60° / 28°
valve lift @ TDC	: 4.85mm	4.80mm

parts setup:

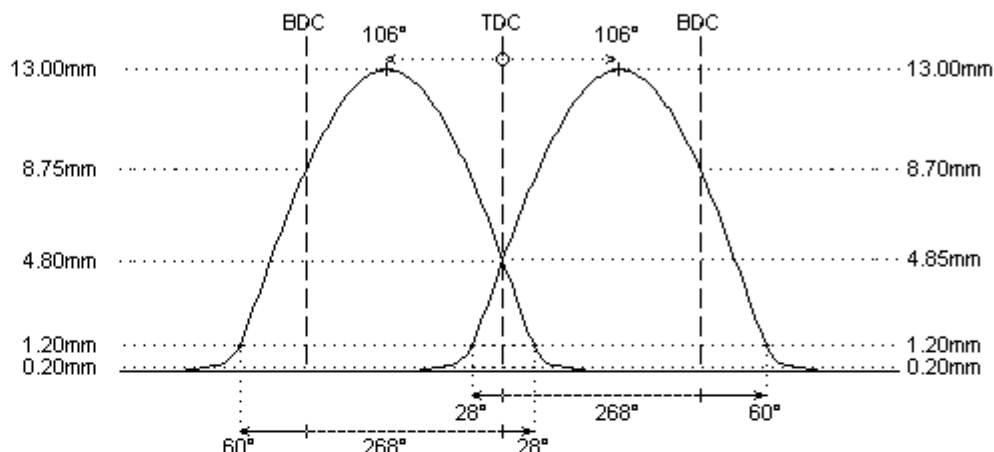
cam wheels :	:	:
follower	: CC005	: CC005
valve lash	: TS102	: TS102
valve	: O.E.M.	: O.E.M.
valve locks	: O.E.M.	: O.E.M.
upper retainer	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: PAC-E92009	: PAC-E92009
interior spring	: PAC-I99861	: PAC-I99861

fitted load / length	: 32kg @ 31.5mm	: 32kg @ 31.5mm
max. load / lift	: 95kg @ 12.0mm	: 95kg @ 12.0mm

REMARKS :

different valve spring setups have been used in the original engines:
please double check the measurements and contact Catcams in case of doubt

ONLY for 7mm valves with tripple groove (MK-7H valve keepers)



REMARKS :

- # Different OEM camshafts were used in this engine family. For ordering the correct sports camshaft, please check:
 - engine reference code
 - cam reference code
 - cam lift
 - keyway position: centered between 1st and 2nd cam lobe (54°)(76061xx) OR close to 1st cam lobe (22°)(76161xx)

Example: engine code "AER" has camshaft code "030 BG", cam lift "8.5mm" and keyway close to 1st cam lobe.

- # a) 8mm valve stem - engines until 07/1994
use hard anodised aluminum retainers (ref. 99326) and double valve springs (ref. 902-5009) with fitted length 35-36mm
- b) 7mm/0.275" valve stem engines from 08/1994 (types: AEV, ABD, ADX, AEA, ABU, AEE, AEX, AKU, AEF)
use single valve springs (ref. 902-0019) on hard anodised aluminum retainers (ref. 99376)

- # - 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