

# 1301009

tarmac rally - race

Bmw S38 B39

I-6cyl 3.8L 24v DOHC (DTs/DTs)



## intake

## exhaust

### camshaft data:

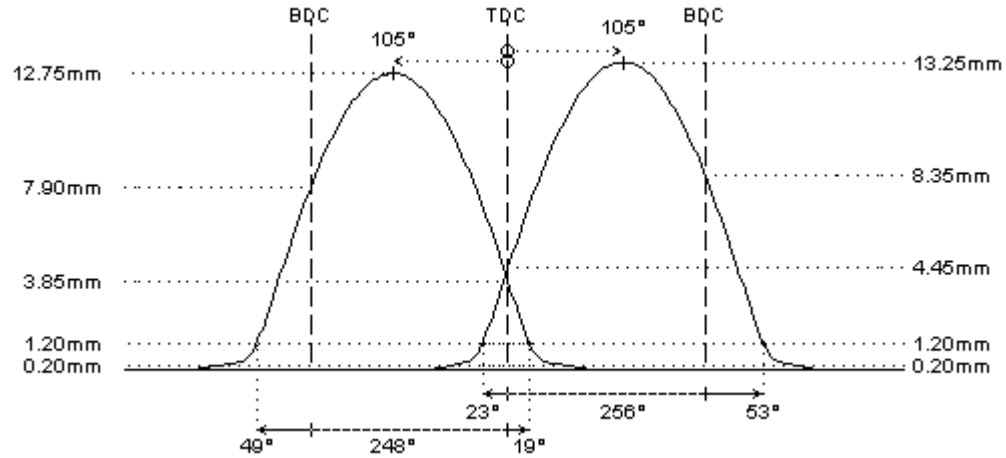
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 289°	281°
duration @ 1.0mm	: 255°	248°
valve lift	: 13.25mm	12.75mm
cam lift	:	
lobe angle	: 105°	105°
timing @ 1.0mm	: 23° / 52°	49° / 19°
valve lift @ TDC	: 4.40mm	3.85mm

### parts setup:

cam wheels :	:	:
follower	: <b>CC010</b>	: <b>CC010</b>
valve lash	: <b>TS102</b>	: <b>TS102</b>
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	: <b>PAC-E95009</b>	: <b>PAC-E95009</b>
interior spring	: <b>PAC-I95009</b>	: <b>PAC-I95009</b>
fitted load / length	: 37kg @ 35.5mm	: 37kg @ 35.5mm
max. load / lift	: 112kg @ 14.0mm	: 112kg @ 14.0mm

### REMARKS :

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



### REMARKS :

- # these camshafts can also be used in M88 (3.4L) and S38B36 (3.6L) engines
- # 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
- # These profiles require race cam followers with shim between cam follower and valve (shim under follower). It is not possible to use these profiles on std cam followers with the shim between the follower and the cam (shim over follower).
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors