1301753

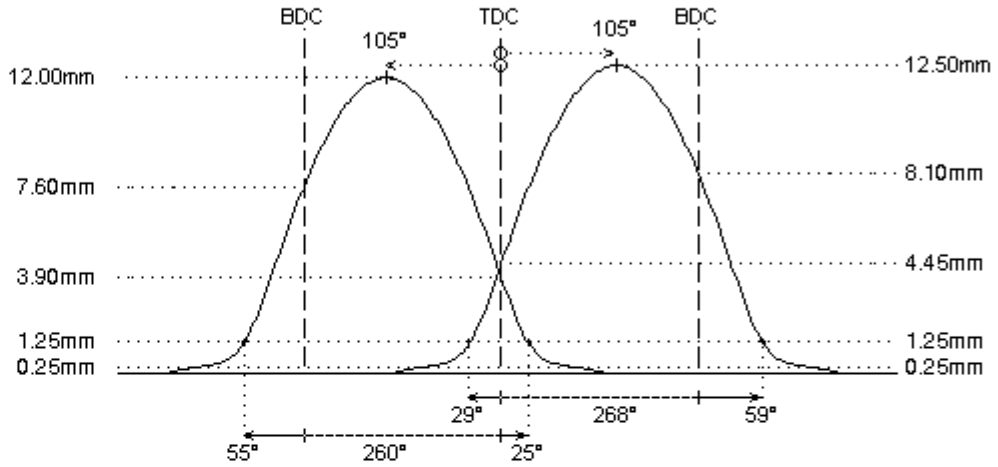
full race

Bmw M44 B19 138hp

I-4cyl 1.9L 16v DOHC (RPRH/RPRH)

	intake	exhaust
camshaft data:		
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 322°	314°
duration @ 1.0mm	: 268°	260°
valve lift	: 12.50mm	12.00mm
cam lift	: 7.60mm	7.30mm
lobe angle	: 105°	105°
timing @ 1.0mm	: 29° / 59°	55° / 25°
valve lift @ TDC	: 4.45mm	3.90mm
parts setup:		
cam wheels :	:	:
follower	: **CC087**	: **CC087**
valve lash	: **TS087**	: **TS087**
valve	: O.E.M.	: O.E.M.
valve locks	: O.E.M.	: O.E.M.
upper retainer	: **99468/s**	: **99468/s**
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: **PAC-S99843**	: **PAC-S99843**
interior spring		
fitted load / length	: 40kg @ 36.3mm	: 40kg @ 36.3mm
max. load / lift	: 91kg @ 12.0mm	: 91kg @ 12.0mm

REMARKS :



REMARKS :

FOR COMPETITION APPLICATIONS ONLY. Following details must be verified:
- the camshafs 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 carburettors