1301808

full race

Bmw S54 B32 338hp, double vanos

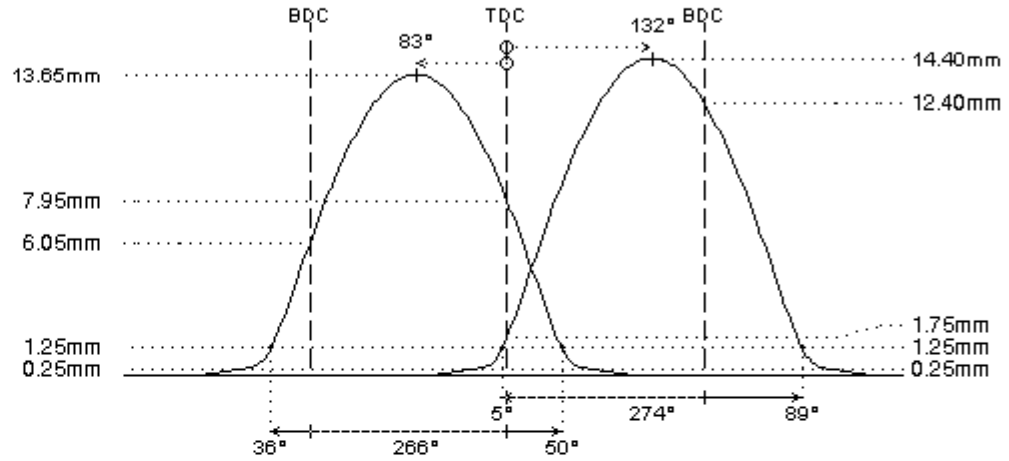
I-6cyl 3.2L 24v DOHC (RP/RP)

	intake	exhaust
camshaft data:		
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 312°	304°
duration @ 1.0mm	: 274°	266°
valve lift	: 14.50mm	13.75mm
cam lift	: 13.10mm	12.50mm
lobe angle	: 132°	83°
timing @ 1.0mm	: 5° / 89°	36° / 50°
valve lift @ TDC	: 1.75mm	7.95mm
parts setup:		
cam wheels :	:	:
follower	: **CAT031**	: **CAT031**
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	: **99496/s**	: **99496/s**
lower retainer	: **99497/O**	: **99497/O**
exterior spring	: **PAC-E12009**	: **PAC-E12009**
interior spring	: **PAC-I12009**	: **PAC-I12009**
fitted load / length	: 30kg @ 34.0mm	: 30kg @ 34.0mm
max. load / lift	: 102kg @ 14.5mm	: 100kg @ 14.0mm

REMARKS :

CAT031 KIT includes:
- 24x CAT031 rocker arm
- 2x rocker arm shafts with extra holes (original BMW) #
- 1x oil bridge (oil supply from exhaust to intake rocker arm shafts) #
#

Machining of cylinder head required at intake camlobes to allow high lift. See picture:



REMARKS :

Any warranty regarding camshaft wear is excluded, unless our CAT031 rocker arm system is being used.

S54 camshafts can only be ordered in combination with rocker arm kit CAT031 !!!

The VANOS (VVT) system on the intake camshaft changes the PD from 132° to 72°. The data are shown for full intake retard (disengaged VVT).
The VANOS (VVT) system on the exhaust camshaft changes the PD from 83° to 128°. The data are shown for full exhaust retard (disengaged VVT).

Check distance between valves and piston to be 1mm at least with VVT engaged. Wrong installation will cause severe engine damage!

lock or limit range of VANOS system

ONLY for use in competition engines with independent engine management (throttle position sensor) or carburettors