

# 1304211

sport

Bmw M52 B20 150hp, vanos in  
I-6cyl 2.0L 24v DOHC (DTH/DTH)



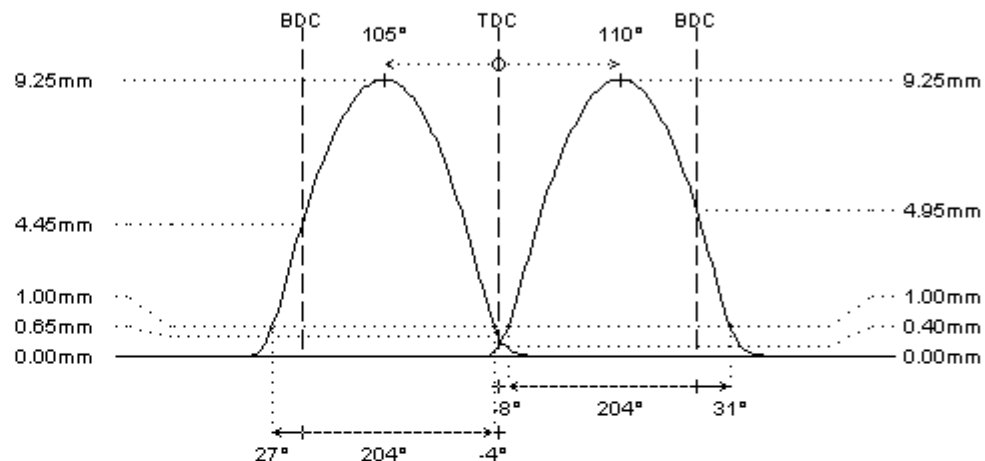
	intake	exhaust
<b>camshaft data:</b>		
lash ramp	: hydro	hydro
duration @ 0.1mm	: 240°	240°
duration @ 1.0mm	: 203°	203°
valve lift	: 9.25mm	9.25mm
cam lift	:	
lobe angle	: 110°	105°
timing @ 1.0mm	: -8° / 31°	27° / -4°
valve lift @ TDC	: 0.40mm	0.65mm

### parts setup:

cam wheels :	:	:
follower	: O.E.M.	: O.E.M.
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	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: O.E.M.	: O.E.M.
interior spring	:	:

fitted load / length	: 0kg @ 37.0mm	: 0kg @ 37.0mm
max. load / lift	: 0kg @ 10.1mm	: 0kg @ 10.1mm

### REMARKS :



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# - steel billet camshafts

# The VANOS (VVT) system on the intake camshaft changes the valve timing:

- M52 /B20: from 110° to 85° (exhaust: 105° fix)
- M52 /B25: from 110° to 85° (exhaust: 105° fix)
- M52 /B28: from 115° to 90° (exhaust: 105° fix)

The data are shown for full intake retard (disengaged VVT). Check distance between valves and piston to be 1mm at least with VVT engaged. Wrong installation will cause severe engine damage!