

# 1301161

full race

Bmw M50 (20 6 S1) 150hp, non vanos

I-6cyl 2.0L 24v DOHC (DTH/DTH)



## intake

## exhaust

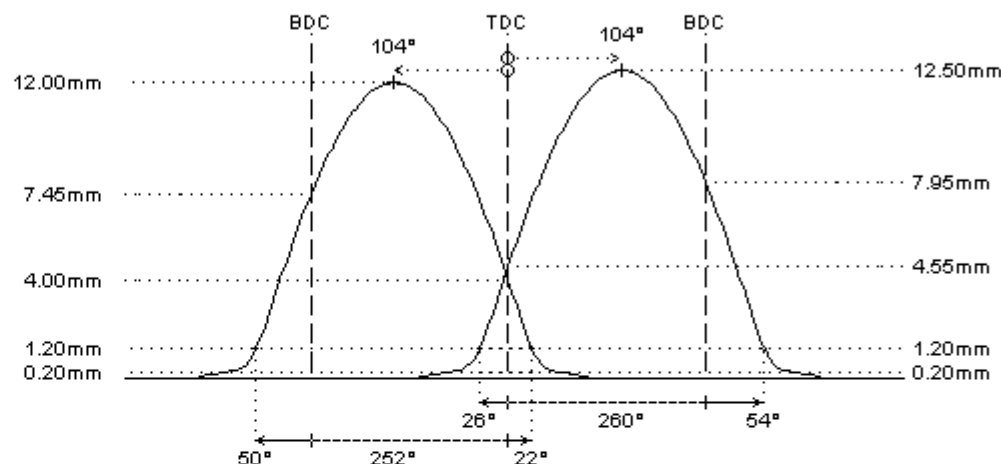
### camshaft data:

|                  |             |           |
|------------------|-------------|-----------|
| lash ramp        | : 0.20mm    | 0.20mm    |
| duration @ 0.1mm | : 298°      | 290°      |
| duration @ 1.0mm | : 260°      | 252°      |
| valve lift       | : 12.50mm   | 12.00mm   |
| cam lift         | :           |           |
| lobe angle       | : 104°      | 104°      |
| timing @ 1.0mm   | : 26° / 54° | 50° / 22° |
| valve lift @ TDC | : 4.55mm    | 4.00mm    |

### 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       | : 99322/s        | : 99322/s        |
| lower retainer       | :  not available | :  not available |
| exterior spring      | : PAC-E95009     | : PAC-E95009     |
| interior spring      | : PAC-I95009     | : PAC-I95009     |
| fitted load / length | : 36kg @ 36.5mm  | : 36kg @ 36.5mm  |
| max. load / lift     | : 110kg @ 14.0mm | : 110kg @ 14.0mm |

### REMARKS :



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- # - steel billet camshafts
- # - 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
- # if required, machine cylinder head and / or use solid shims to adjust spring load
- # Before camshaft installation: please remove the cam carriers and fit the new camshafts in the empty cam carriers to check interference with the cam lobes. Modify the cam carriers if required.
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors