

# 1302154

turbo conversion

Bmw M10 B18 105hp

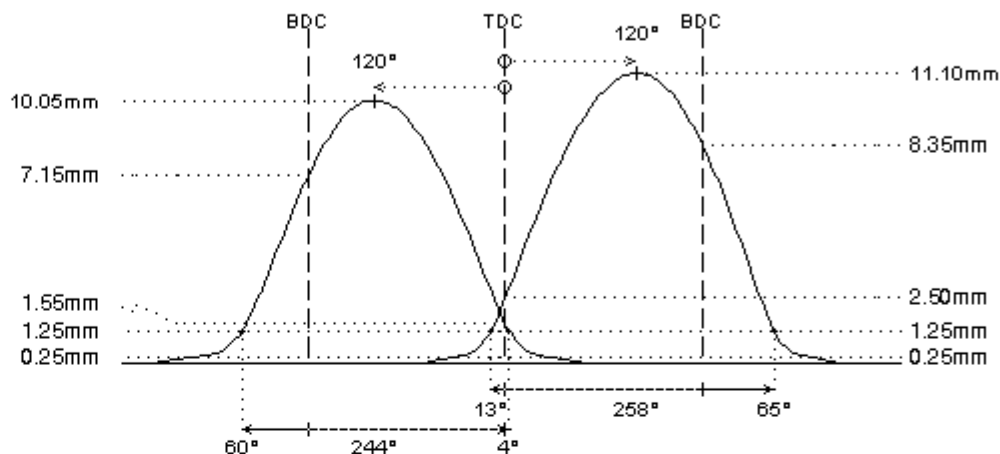
I-4cyl 1.8L 8v SOHC (RP/RP)



	intake	exhaust
<b>camshaft data:</b>		
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 299°	292°
duration @ 1.0mm	: 258°	244°
valve lift	: 11.10mm	10.05mm
cam lift	: 8.60mm	7.85mm
lobe angle	: 120°	120°
timing @ 1.0mm	: 13° / 65°	60° / 4°
valve lift @ TDC	: 2.50mm	1.55mm
<b>parts setup:</b>		
cam wheels :	:	:
follower	:  INFO	:  INFO
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	:  99326	:  99326
lower retainer	:  not available	:  not available
exterior spring	:  PAC-E95009	:  PAC-E95009
interior spring	:  PAC-I95009	:  PAC-I95009
fitted load / length	: 40kg @ 34.0mm	: 40kg @ 34.0mm
max. load / lift	: 111kg @ 13.0mm	: 111kg @ 13.0mm

### REMARKS :

- # larger excenter discs (part number "99019" - D18mm) available to adjust valve clearance for camshafts with reduced cam base diameter
- # Cat Cams steel billet rocker arms (part number "CAT021") are strongly advised for use over 7000rpm



### REMARKS :

#### # Please use the correct part number code for your engine:

- 13001xx: small bearing (42.95mm-41.95mm-34.95mm), right gear
- 13002xx: small bearing (42.95mm-41.95mm-34.95mm), left gear
- 13021xx: big bearing (44.95mm-43.95mm-34.95mm), right gear
- 13022xx: big bearing (44.95mm-43.95mm-34.95mm), left gear

#### Difference between left and right gear

The cams are drilled for extra lubrication. The internal lubrication can be sealed with an M3 Allen screw in the first bearing.



#### NOW AVAILABLE: CATCAMS steel billet rocker arms (coated) with original Mahle valve adjustment screws !!!

#### # 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

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

- # We have two types of adjustable cam sprockets available:
  -  TBM010: single chain
  -  TBM012: double chain
  
- # for TURBO conversion (atmospheric to turbo)