

# 4003701

tarmac rally - race

Mercedes M113.980 .980 .981 .982 .984 .986

V-8cyl 5.4L 24v SOHC (RPRH/RPRH)



intake exhaust

## camshaft data:

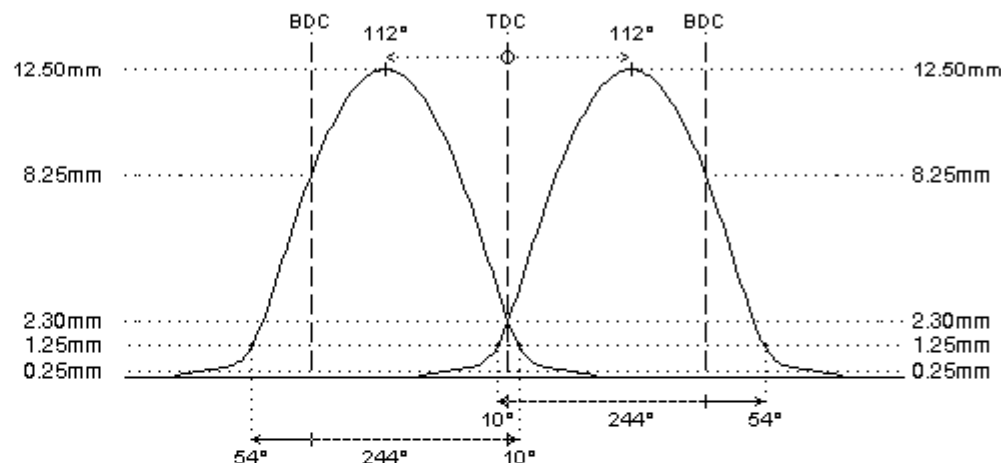
|                  |             |           |
|------------------|-------------|-----------|
| lash ramp        | : 0.25mm    | 0.25mm    |
| duration @ 0.1mm | : 306°      | 306°      |
| duration @ 1.0mm | : 244°      | 244°      |
| valve lift       | : 12.50mm   | 12.50mm   |
| cam lift         | : 8.75mm    | 8.75mm    |
| lobe angle       | : 112°      | 112°      |
| timing @ 1.0mm   | : 10° / 54° | 54° / 10° |
| valve lift @ TDC | : 2.30mm    | 2.30mm    |

## parts setup:

|                      |                  |                  |
|----------------------|------------------|------------------|
| cam wheels :         | :                | :                |
| follower             | : O.E.M.         | : O.E.M.         |
| valve lash           | : 11mm shim      | : 11mm shim      |
| valve                | : O.E.M.         | : O.E.M.         |
| valve locks          | : O.E.M.         | : O.E.M.         |
| upper retainer       | : 99572          | : 99572          |
| lower retainer       | : 99593/O        | : 99593/O        |
| exterior spring      | : PAC-E92009     | : PAC-E92009     |
| interior spring      | : PAC-I92009     | : PAC-I92009     |
| fitted load / length | : 35kg @ 34.0mm  | : 35kg @ 34.0mm  |
| max. load / lift     | : 104kg @ 14.0mm | : 104kg @ 14.0mm |

## REMARKS :

- # machining of cylinder head required
- # Modification of rocker arms is required
- # remove inner plunger from hydraulic element and replace with lash adjustment shim.



## REMARKS :

- # Mechanical conversion requires machining of the rocker arms!
- # 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
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors