

# 1031576

tarmac rally - race

Alfa Romeo AR 671.99 140hp, VVT intake

I-4cyl 1.7L 16v DOHC (DTH/DTH)



### intake

### exhaust

#### camshaft data:

lash ramp : 0.20mm  
duration @ 0.1mm : 298°  
duration @ 1.0mm : 260°  
valve lift : 12.50mm  
cam lift :  
lobe angle : 105°  
timing @ 1.0mm : 25° / 55°  
valve lift @ TDC : 4.40mm

0.20mm  
290°  
252°  
12.00mm  
:  
105°  
51° / 21°  
3.85mm

#### parts setup:

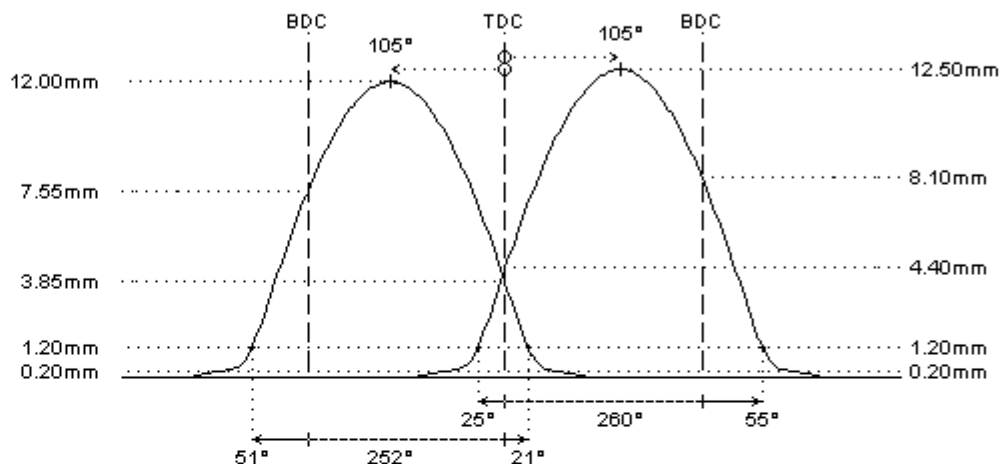
cam wheels : : CTAR001  
follower : : CC002  
valve lash : : TS102  
valve : : O.E.M.  
valve locks : : O.E.M.  
upper retainer : : 99371  
lower retainer : : O.E.M.  
exterior spring : : PAC-E92009  
interior spring : : PAC-I92009

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: CC002  
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: PAC-I92009

fitted load / length : 39kg @ 33.0mm  
max. load / lift : 100kg @ 12.5mm

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: 100kg @ 12.5mm

#### REMARKS :



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- # camshafts for use with STD VVT (vanos) system
- # - 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
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors