

2301016

tarmac rally - race

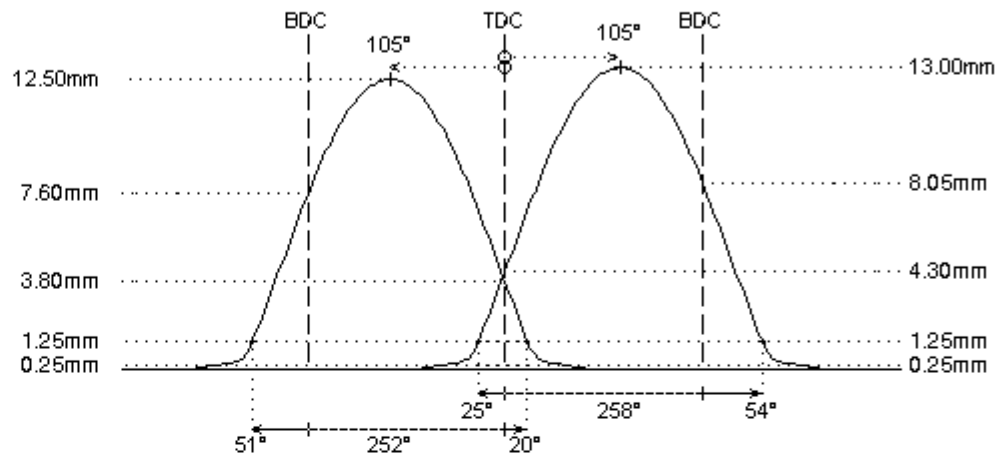
Ford ALDA ST170, VVT

I-4cyl 2.0L 16v DOHC (DTx/DTx)



	intake	exhaust
camshaft data:		
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 293°	285°
duration @ 1.0mm	: 259°	251°
valve lift	: 13.00mm	12.50mm
cam lift	: 13.00mm	12.50mm
lobe angle	: 105°	105°
timing @ 1.0mm	: 25° / 54°	51° / 20°
valve lift @ TDC	: 4.30mm	3.80mm
parts setup:		
cam wheels :	: CTFO170	: CTFO170
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	: 99391/s	: 99391/s
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: PAC-S90015	: PAC-S90015
interior spring		
fitted load / length	: 27kg @ 38.8mm	: 27kg @ 38.8mm
max. load / lift	: 74kg @ 12.5mm	: 74kg @ 12.5mm

REMARKS :



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intake camshaft with for use with fixed pulley (like original exhaust)

- > The intake camshaft for use without vanos is slightly different from the exhaust camshaft. It is possible to use the original intake camshaft seal without further modifications.
- > for ordering, please use 23010xx instead of 22910xx from the VVT range (example: 2301013 = 2291013 but without VVT).
- > The cam trigger will need to be transferred from oem camshaft

In the factory valve setup, the valve clearance is set by cam followers of individual lengths.

Cat Cams offers two options to adjust the valve clearance:

- 1/ camshafts with factory cam base diameter of 38.2mm: use O.E.M. tappets with appropriate inner stud length to adjust the clearance. It may be required to replace the cam followers to obtain the correct valve clearance.
- 2/ camshafts with reduced cam base diameter to 35.0mm: use lash caps (dia. 6mm) with appropriate thickness to adjust the clearance
- -> Please indicate the cam base diameter when ordering.

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

ii. ONEP 101 use in competition engines with independent engine management (in static position category of carburetors)