## 2291016

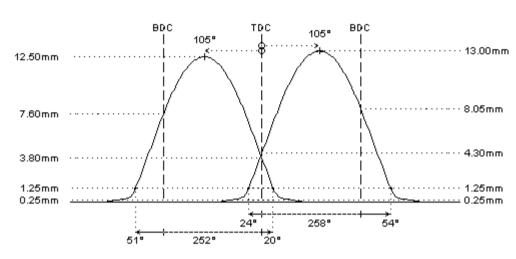
tarmac rally - race

Ford 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	: 24° / 55°	50° / 21°
valve lift @ TDC	: 4.30mm	3.80mm
parts setup: cam wheels: follower valve lash valve valve locks upper retainer lower retainer exterior spring interior spring	: O.E.M. O.E.M. O.E.M. O.E.M. O.E.M. O.E.M. PAC-S90015	: O.E.M. : O.E.M. : O.E.M. : O.E.M. : O.E.M. : O.E.M. : PAC-S90015
fitted load / length max. load / lift	: 27kg @ 38.8mm : 74kg @ 12.5mm	





## **REMARKS:**

- # Cat Cams offers two versions for the intake camshaft:
  - 1/ intake camshaft with for use with vanos system (like original intake): 22910xx
  - 2/ intake camshaft with for use with fixed pulley (like original exhaust): 23010xx
  - --> The intake camshaft for use without vanos is slightly different from the exhaust camshaft. It is possible to use the original intake camshaft seal.
  - Please indicate the type of intake camshaft when ordering
- # 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 camshafs 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

carburettors