

# 4603020

hot street - dirt track

Opel X20XE big block ecotec (X18XE-2.0L-2.2L)

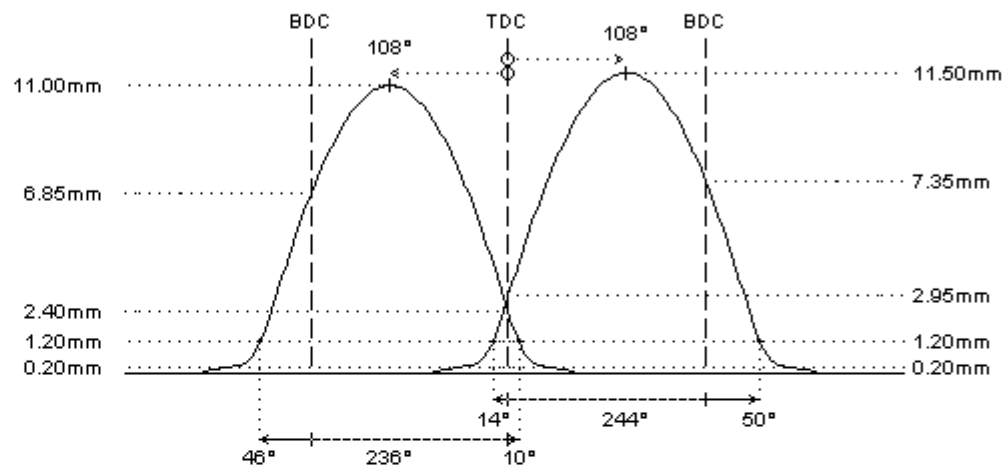
I-4cyl 2.0L 16v DOHC (DTH/DTH)



	intake	exhaust
<b>camshaft data:</b>		
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 282°	274°
duration @ 1.0mm	: 244°	236°
valve lift	: 11.50mm	11.00mm
cam lift	:	
lobe angle	: 108°	108°
timing @ 1.0mm	: 14° / 50°	46° / 10°
valve lift @ TDC	: 2.95mm	2.40mm
<b>parts setup:</b>		
cam wheels :	:  CTOPK01	:  CTOPK01
follower	:  CC004	:  CC004
valve lash	:  TS101	:  TS101
valve	: O.E.M.	: O.E.M.
valve locks	: O.E.M.	: O.E.M.
upper retainer	:  99145/H	:  99145/H
lower retainer	:  remove	:  remove
exterior spring	:  PAC-E92009	:  PAC-E92009
interior spring	:  PAC-I92009	:  PAC-I92009
fitted load / length	: 39kg @ 33.0mm	: 39kg @ 33.0mm
max. load / lift	: 101kg @ 12.5mm	: 101kg @ 12.5mm

### REMARKS :

# replace OEM lower retainer to obtain a correct installation / fitted length (currently not available)



### REMARKS :

- # - camshafts for use in X18XE-2.0L-2.2L long block 'ecotec' engines
- # - 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
- # In some cases machining of the cylinderhead can be required due to camshaft casting tolerances.