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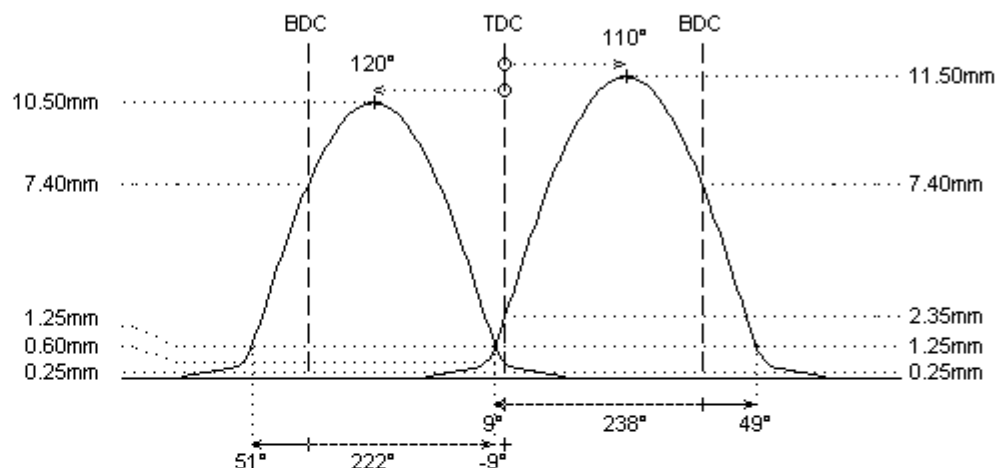
turbo conversion

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

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



| | intake | exhaust |
|-----------------------|-----------------|-----------------|
| camshaft data: | | |
| lash ramp | : 0.25mm | 0.25mm |
| duration @ 0.1mm | : 284° | 269° |
| duration @ 1.0mm | : 238° | 222° |
| valve lift | : 11.50mm | 10.50mm |
| cam lift | : | |
| lobe angle | : 110° | 120° |
| timing @ 1.0mm | : 9° / 49° | 51° / -9° |
| valve lift @ TDC | : 2.35mm | 0.60mm |
| parts setup: | | |
| 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 | : 35kg @ 33.0mm | : 35kg @ 33.0mm |
| max. load / lift | : 97kg @ 12.5mm | : 97kg @ 12.5mm |



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 dirt track applications and pro street use with adjustable engine management or carburetors
- # for TURBO conversion (atmospheric to turbo)

REMARKS :

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