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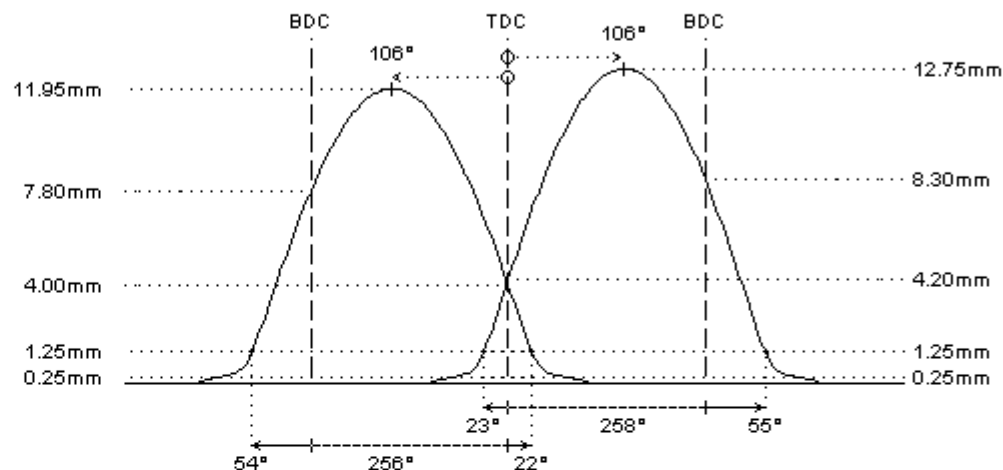
hot street - dirt track

Volvo B230 B19 - B21 - B23 - B230

I-4cyl 2.3L 8v SOHC (DTs/DTs)



	intake	exhaust
camshaft data:		
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 293°	293°
duration @ 1.0mm	: 258°	256°
valve lift	: 12.75mm	11.95mm
cam lift	:	
lobe angle	: 106°	106°
timing @ 1.0mm	: 23° / 55°	54° / 22°
valve lift @ TDC	: 4.20mm	4.00mm
parts setup:		
cam wheels :	CTVO021	CTVO021
follower :	CC009	CC009
valve lash :	TS103	TS103
valve :	O.E.M.	O.E.M.
valve locks :	O.E.M.	O.E.M.
upper retainer :	99326	99326
lower retainer :	not available	not available
exterior spring :	PAC-E95009	PAC-E95009
interior spring :	PAC-I95009	PAC-I95009
fitted load / length	: 36kg @ 34.0mm	: 36kg @ 34.0mm
max. load / lift	: 113kg @ 14.0mm	: 113kg @ 14.0mm



REMARKS :

- # Volvo has used many different camshaft specifications. Please indicate STD cam base diameter and height when ordering sports camshafts. Depending on the engine version and application, extra modifications may be required.
- # 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

REMARKS :

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