

4601102

hot street - dirt track

Opel CIH

I-6cyl 3.0L 12v SOHC (FTH/FTH)



intake

exhaust

camshaft data:

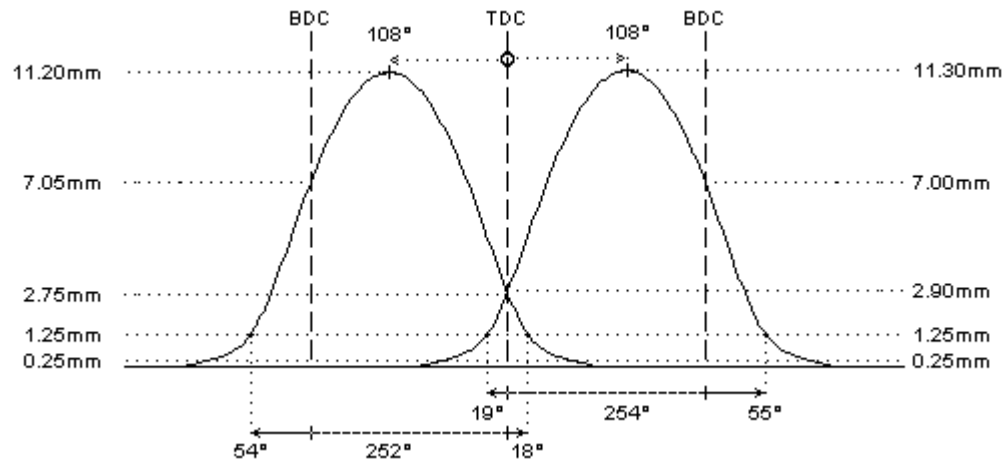
lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 315°	311°
duration @ 1.0mm	: 254°	252°
valve lift	: 11.30mm	11.20mm
cam lift	: 7.50mm	7.45mm
lobe angle	: 108°	108°
timing @ 1.0mm	: 19° / 55°	54° / 18°
valve lift @ TDC	: 2.90mm	2.75mm

parts setup:

cam wheels :	: TOPCIH	: TOPCIH
follower	: CAT046	: CAT046
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	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: PAC-S90006	: PAC-S90007
interior spring		
fitted load / length	: 0kg @ 0.0mm	: 0kg @ 0.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

REMARKS :

in most engines, the std valve springs can be replaced by PAC-S99006 (intake) and PAC-S99007 (exhaust) without further modifications.



REMARKS :

- # - chilled cast iron camshafts
- # Valve lift and timing specifications assume fixed rocker arm ratio of RR1,500. This can be obtained by replacing the O.E.M. rocker arms by the Catcams Roller rocker arms.
- # 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

4601103

hot street - dirt track

Opel CIH

I-6cyl 3.0L 12v SOHC (FTH/FTH)



intake exhaust

camshaft data:

lash ramp	: 0.30mm	0.30mm
duration @ 0.1mm	: 315°	312°
duration @ 1.0mm	: 261°	259°
valve lift	: 11.80mm	11.75mm
cam lift	: 7.90mm	7.85mm
lobe angle	: 108°	108°
timing @ 1.0mm	: 23° / 58°	58° / 21°
valve lift @ TDC	: 3.40mm	3.30mm

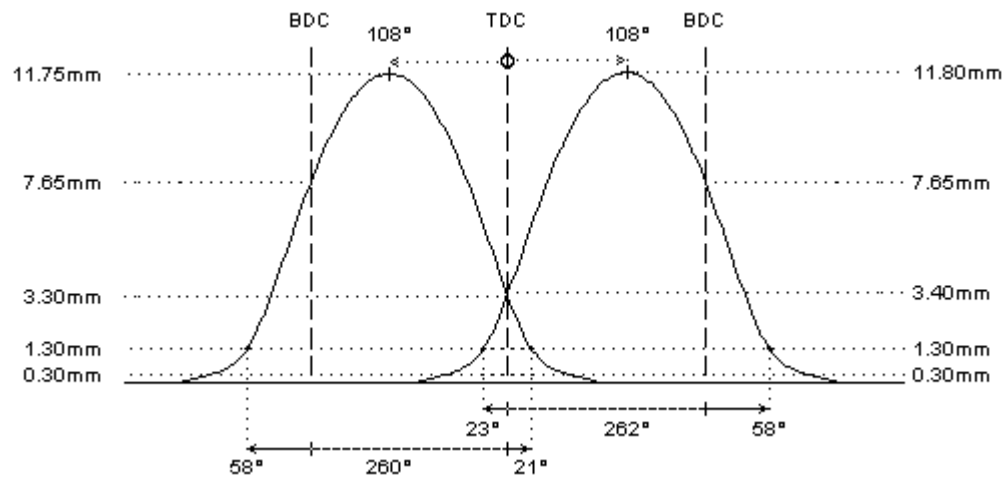
parts setup:

cam wheels :	: TOPCIH	: TOPCIH
follower	: CAT046	: CAT046
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	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: PAC-S90006	: PAC-S90007
interior spring		

fitted load / length	: 0kg @ 0.0mm	: 0kg @ 0.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

REMARKS :

in most engines, the std valve springs can be replaced by PAC-S99006 (intake) and PAC-S99007 (exhaust) without further modifications.



REMARKS :

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- # Valve lift and timing specifications assume fixed rocker arm ratio of RR1,500. This can be obtained by replacing the O.E.M. rocker arms by the Catcams Roller rocker arms.
- # 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

4601236

sport

Opel CIH

I-6cyl 3.0L 12v SOHC (FTH/FTH)



intake

exhaust

camshaft data:

lash ramp	: hydro	hydro
duration @ 0.1mm	: 272°	272°
duration @ 1.0mm	: 231°	231°
valve lift	: 11.25mm	11.25mm
cam lift	: 7.50mm	7.50mm
lobe angle	: 108°	108°
timing @ 1.0mm	: 7° / 44°	43° / 8°
valve lift @ TDC	: 1.85mm	1.85mm

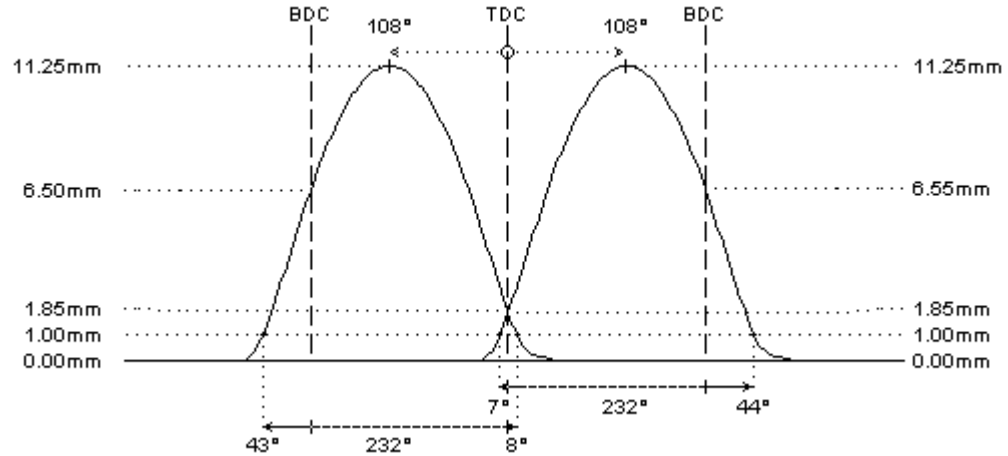
parts setup:

cam wheels :	:	:
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	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: O.E.M.	: O.E.M.
interior spring	:	:

fitted load / length	: 0kg @ 0.0mm	: 0kg @ 0.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

REMARKS :

original valve spring info is not available



REMARKS :

- chilled cast iron camshafts

Valve lift and timing specifications assume fixed rocker arm ratio of RR1,500. This can be obtained by replacing the O.E.M. rocker arms by the Catcams Roller rocker arms.

4601237

hot street - dirt track

Opel CIH

I-6cyl 3.0L 12v SOHC (FTH/FTH)



intake

exhaust

camshaft data:

lash ramp	: hydro	hydro
duration @ 0.1mm	: 282°	282°
duration @ 1.0mm	: 239°	239°
valve lift	: 11.65mm	11.65mm
cam lift	: 7.75mm	7.75mm
lobe angle	: 108°	108°
timing @ 1.0mm	: 11° / 48°	47° / 12°
valve lift @ TDC	: 2.35mm	2.35mm

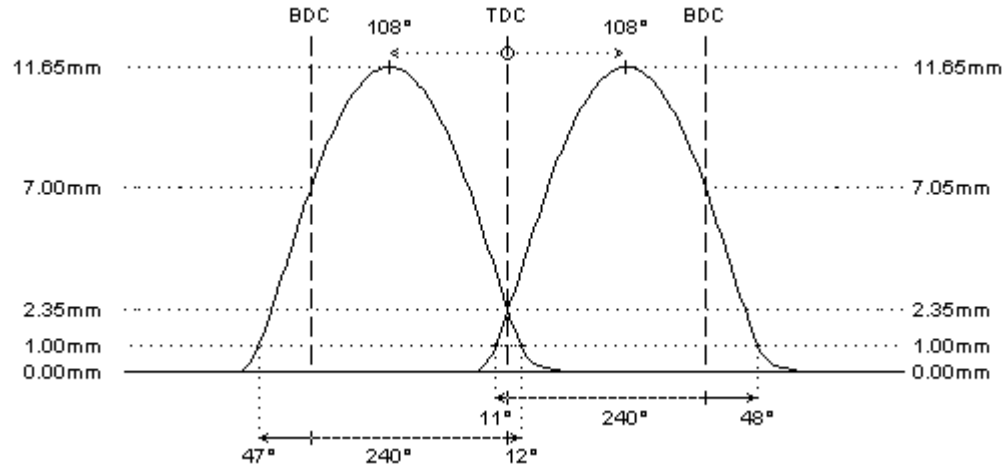
parts setup:

cam wheels :	: TOPCIH	: TOPCIH
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	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: PAC-S90006	: PAC-S90007
interior spring		

fitted load / length	: 0kg @ 0.0mm	: 0kg @ 0.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

REMARKS :

in most engines, the std valve springs can be replaced by PAC-S99006 (intake) and PAC-S99007 (exhaust) without further modifications.



REMARKS :

- # - chilled cast iron camshafts
- # Valve lift and timing specifications assume fixed rocker arm ratio of RR1,500. This can be obtained by replacing the O.E.M. rocker arms by the Catcams Roller rocker arms.
- # ONLY for dirt track applications and pro street use with adjustable engine management or carburetors

4601238

hot street - dirt track

Opel CIH

I-6cyl 3.0L 12v SOHC (FTH/FTH)



intake

exhaust

camshaft data:

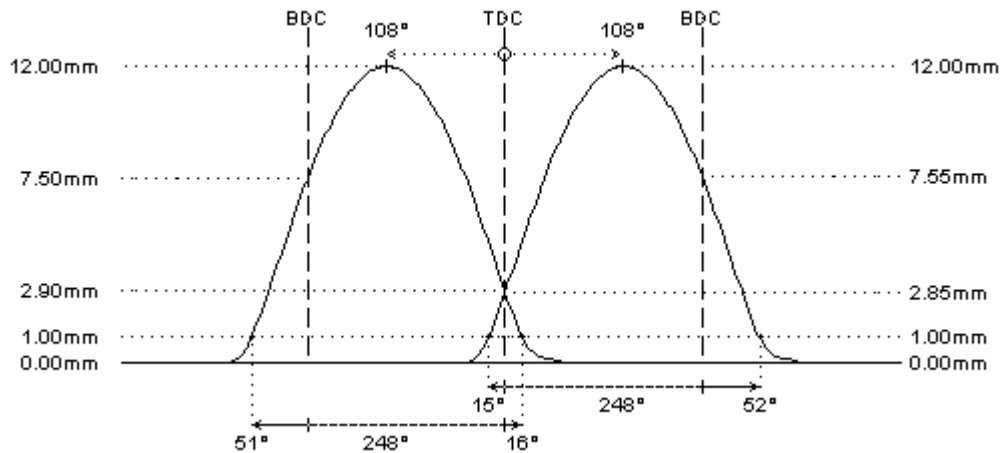
lash ramp	: hydro	hydro
duration @ 0.1mm	: 291°	291°
duration @ 1.0mm	: 247°	247°
valve lift	: 12.00mm	12.00mm
cam lift	: 8.00mm	8.00mm
lobe angle	: 108°	108°
timing @ 1.0mm	: 15° / 52°	51° / 16°
valve lift @ TDC	: 2.85mm	2.90mm

parts setup:

cam wheels :	: TOPCIH	: TOPCIH
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	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: PAC-S90006	: PAC-S90007
interior spring		
fitted load / length	: 0kg @ 0.0mm	: 0kg @ 0.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

REMARKS :

in most engines, the std valve springs can be replaced by PAC-S99006 (intake) and PAC-S99007 (exhaust) without further modifications.



REMARKS :

- # - chilled cast iron camshafts
- # Valve lift and timing specifications assume fixed rocker arm ratio of RR1,500. This can be obtained by replacing the O.E.M. rocker arms by the Catcams Roller rocker arms.
- # 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

4601239

turbo conversion

Opel CIH

I-6cyl 3.0L 12v SOHC (FTH/FTH)



intake

exhaust

camshaft data:

lash ramp	: hydro	hydro
duration @ 0.1mm	: 282°	263°
duration @ 1.0mm	: 239°	223°
valve lift	: 11.65mm	10.90mm
cam lift	: 7.75mm	7.25mm
lobe angle	: 110°	120°
timing @ 1.0mm	: 9° / 50°	51° / -8°
valve lift @ TDC	: 2.10mm	0.45mm

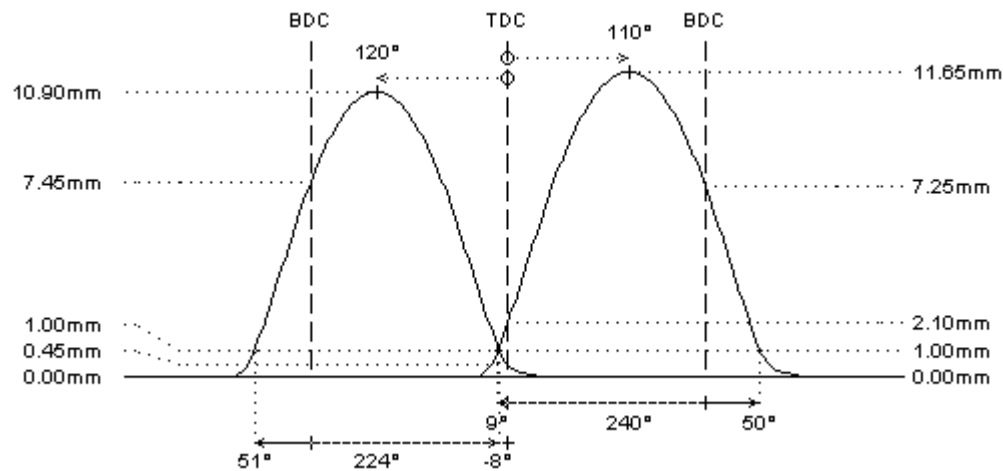
parts setup:

cam wheels :	: TOPCIH	: TOPCIH
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	: O.E.M.	: O.E.M.
lower retainer	: O.E.M.	: O.E.M.
exterior spring	: PAC-S90006	: PAC-S90007
interior spring		

fitted load / length	: 0kg @ 0.0mm	: 0kg @ 0.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

REMARKS :

in most engines, the std valve springs can be replaced by PAC-S99006 (intake) and PAC-S99007 (exhaust) without further modifications.



REMARKS :

- # - chilled cast iron camshafts
- # Valve lift and timing specifications assume fixed rocker arm ratio of RR1,500. This can be obtained by replacing the O.E.M. rocker arms by the Catcams Roller rocker arms.
- # for TURBO conversion (atmospheric to turbo)