

4603111

sport

Opel L850

I-4cyl 2.2L 16v DOHC (RPRH/RPRH)



intake

exhaust

camshaft data:

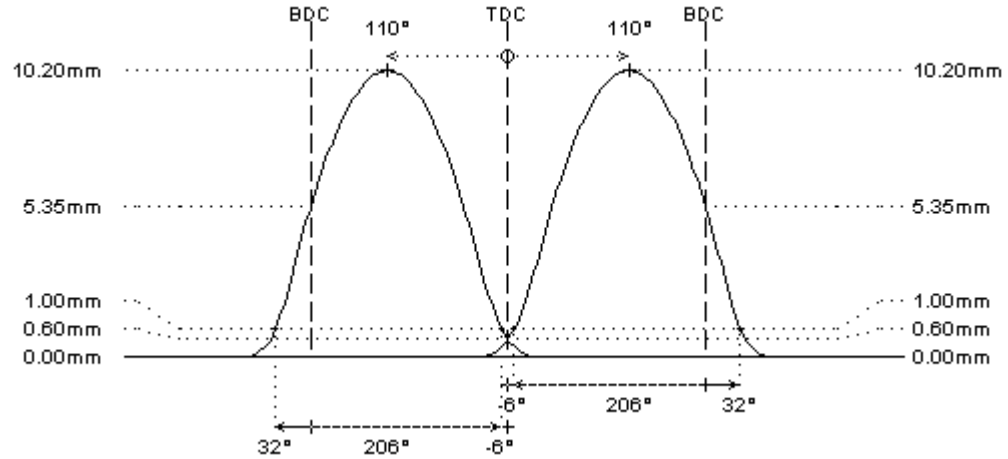
lash ramp	: hydro	hydro
duration @ 0.1mm	: 243°	243°
duration @ 1.0mm	: 206°	206°
valve lift	: 10.20mm	10.20mm
cam lift	: 6.10mm	6.10mm
lobe angle	: 110°	110°
timing @ 1.0mm	: -6° / 32°	32° / -6°
valve lift @ TDC	: 0.60mm	0.60mm

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	: 27kg @ 32.5mm	: 27kg @ 32.5mm
max. load / lift	: 58kg @ 11.0mm	: 58kg @ 11.0mm

REMARKS :



REMARKS :

4603112

sport

Opel L850

I-4cyl 2.2L 16v DOHC (RPRH/RPRH)



intake

exhaust

camshaft data:

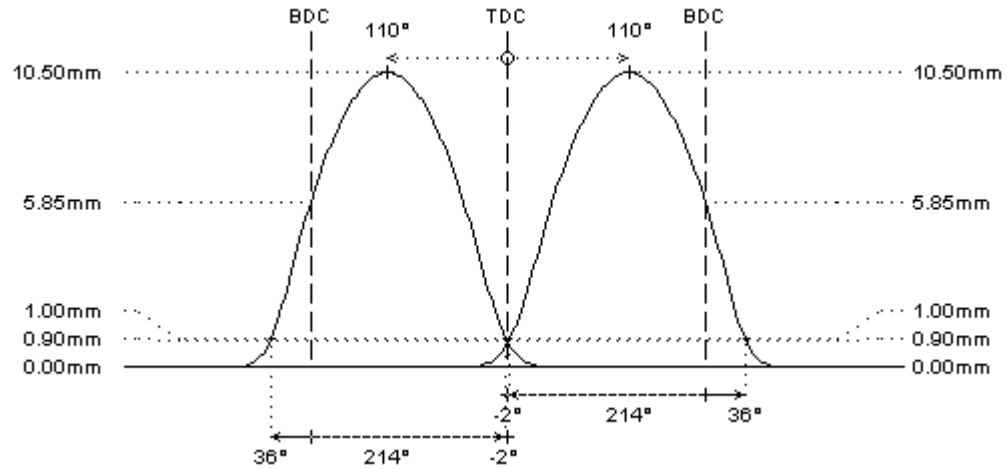
lash ramp	: hydro	hydro
duration @ 0.1mm	: 253°	253°
duration @ 1.0mm	: 214°	214°
valve lift	: 10.50mm	10.50mm
cam lift	: 6.25mm	6.25mm
lobe angle	: 110°	110°
timing @ 1.0mm	: -2° / 36°	36° / -2°
valve lift @ TDC	: 0.90mm	0.90mm

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	: 27kg @ 32.5mm	: 27kg @ 32.5mm
max. load / lift	: 58kg @ 11.0mm	: 58kg @ 11.0mm

REMARKS :



REMARKS :

4603113

sport

Opel L850

I-4cyl 2.2L 16v DOHC (RPRH/RPRH)



intake **exhaust**

camshaft data:

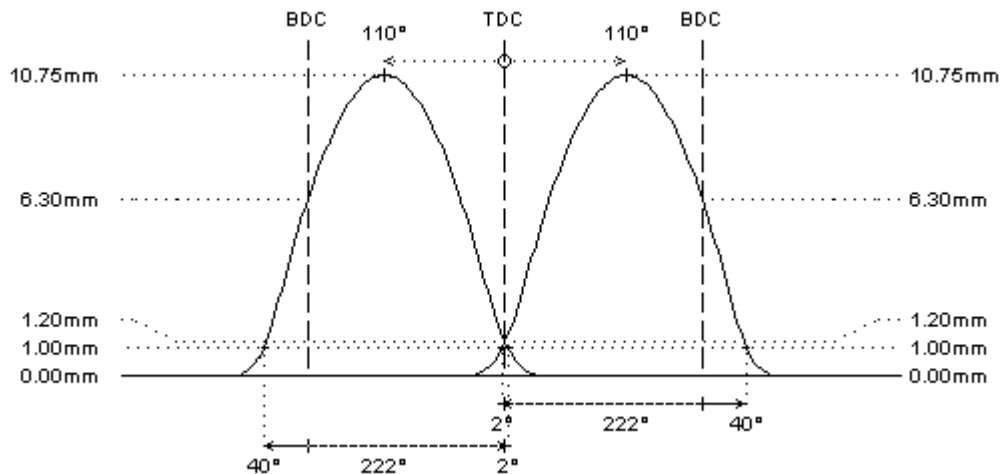
lash ramp	: hydro	hydro
duration @ 0.1mm	: 259°	259°
duration @ 1.0mm	: 222°	222°
valve lift	: 10.75mm	10.75mm
cam lift	: 6.40mm	6.40mm
lobe angle	: 110°	110°
timing @ 1.0mm	: 2° / 40°	40° / 2°
valve lift @ TDC	: 1.20mm	1.20mm

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	: 27kg @ 32.5mm	: 27kg @ 32.5mm
max. load / lift	: 58kg @ 11.0mm	: 58kg @ 11.0mm

REMARKS :



REMARKS :

ECU reprogramming required

4603114

hot street - dirt track

Opel L850

I-4cyl 2.2L 16v DOHC (RPRH/RPRH)



intake **exhaust**

camshaft data:

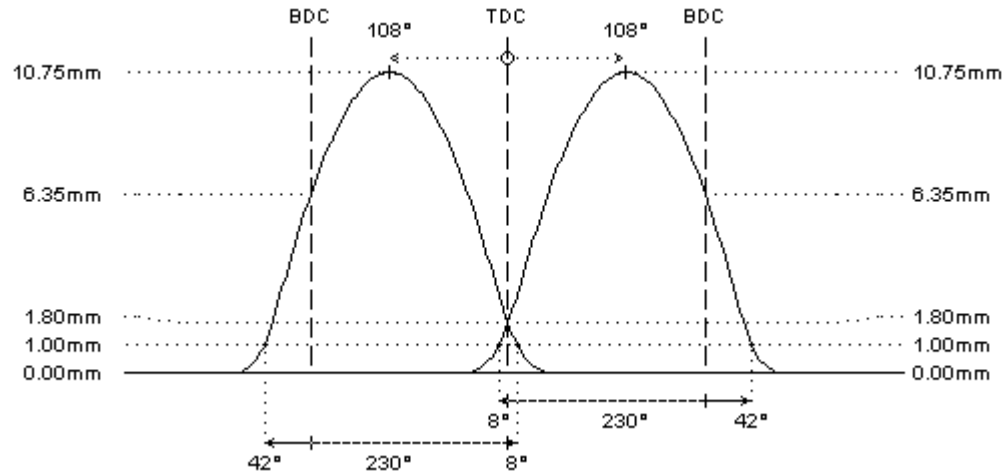
lash ramp	: hydro	hydro
duration @ 0.1mm	: 267°	267°
duration @ 1.0mm	: 230°	230°
valve lift	: 10.75mm	10.75mm
cam lift	: 6.40mm	6.40mm
lobe angle	: 108°	108°
timing @ 1.0mm	: 8° / 42°	42° / 8°
valve lift @ TDC	: 1.80mm	1.80mm

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	: 27kg @ 32.5mm	: 27kg @ 32.5mm
max. load / lift	: 58kg @ 11.0mm	: 58kg @ 11.0mm

REMARKS :



REMARKS :

- # 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

4603115

hot street - dirt track

Opel L850

I-4cyl 2.2L 16v DOHC (RPRH/RPRH)



intake **exhaust**

camshaft data:

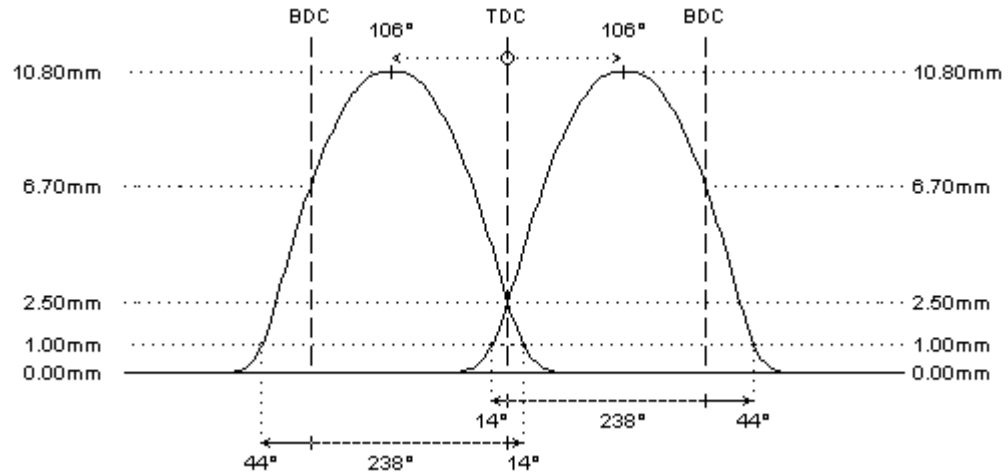
lash ramp	: hydro	hydro
duration @ 0.1mm	: 278°	278°
duration @ 1.0mm	: 238°	238°
valve lift	: 10.80mm	10.80mm
cam lift	: 6.40mm	6.40mm
lobe angle	: 106°	106°
timing @ 1.0mm	: 14° / 44°	44° / 14°
valve lift @ TDC	: 2.50mm	2.50mm

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	: 27kg @ 32.5mm	: 27kg @ 32.5mm
max. load / lift	: 58kg @ 11.0mm	: 58kg @ 11.0mm

REMARKS :



REMARKS :

- # 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

4603116

turbo conversion

Opel L850

I-4cyl 2.2L 16v DOHC (RPRH/RPRH)



intake

exhaust

camshaft data:

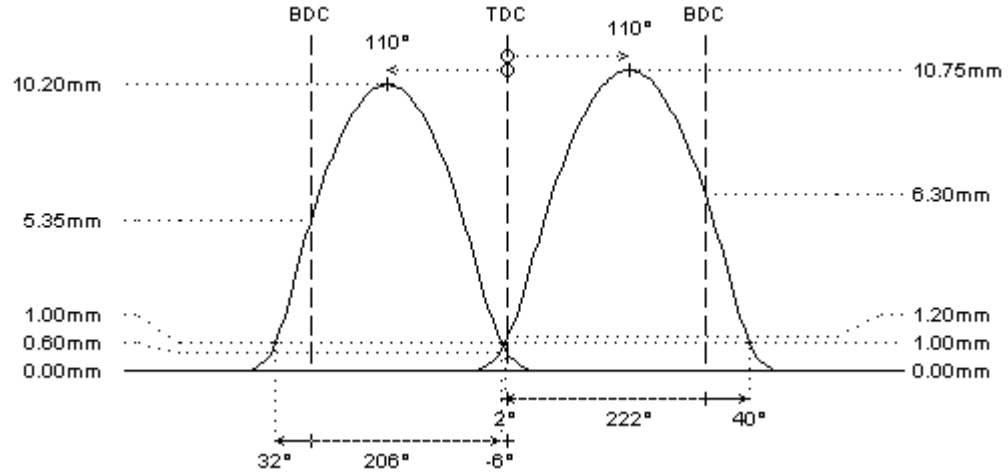
lash ramp	: hydro	hydro
duration @ 0.1mm	: 259°	243°
duration @ 1.0mm	: 222°	206°
valve lift	: 10.75mm	10.20mm
cam lift	: 6.40mm	6.10mm
lobe angle	: 110°	110°
timing @ 1.0mm	: 2° / 40°	32° / -6°
valve lift @ TDC	: 1.20mm	0.60mm

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	: 27kg @ 32.5mm	: 27kg @ 32.5mm
max. load / lift	: 58kg @ 11.0mm	: 58kg @ 11.0mm

REMARKS :



REMARKS :

for TURBO conversion (atmospheric to turbo)