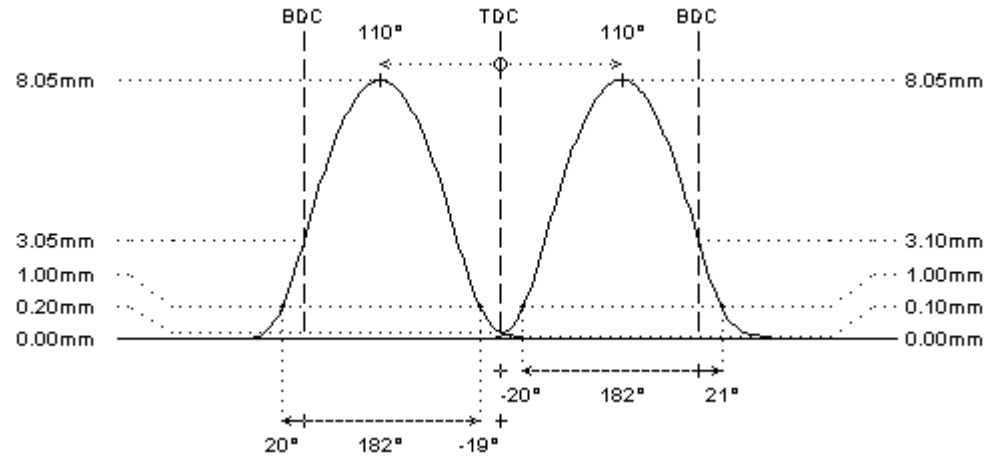


O.E.M.

Hyundai 160hp / 230Nm  
V-6cyl 2.5L 24v DOHC (DTH/DTH)



	<b>intake</b>	<b>exhaust</b>
<b>camshaft data:</b>		
lash ramp	: hydro	hydro
duration @ 0.1mm	: 239°	234°
duration @ 1.0mm	: 181°	181°
valve lift	: 8.05mm	8.05mm
cam lift	:	
lobe angle	: 110°	110°
timing @ 1.0mm	: -20° / 21°	20° / -19°
valve lift @ TDC	: 0.10mm	0.20mm
<b>parts setup:</b>		
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 @ 34.5mm	: 0kg @ 34.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm



**REMARKS :**

# The exact valve timing data of the original camshafts are not known. Valve timing data are illustrated on estimated peak angle of 110°. The actual valve timing in the engine may be different, as well as the indicated lift at TDC.

**REMARKS :**

# original valve spring info is not available

# 2700901

sport

Hyundai 160hp / 230Nm  
V-6cyl 2.5L 24v DOHC (DTH/DTH)



**intake**                      **exhaust**

**camshaft data:**

lash ramp	: hydro	hydro
duration @ 0.1mm	: 243°	243°
duration @ 1.0mm	: 188°	188°
valve lift	: 8.20mm	8.20mm
cam lift	:	
lobe angle	: 110°	110°
timing @ 1.0mm	: -16° / 24°	24° / -16°
valve lift @ TDC	: 0.15mm	0.25mm

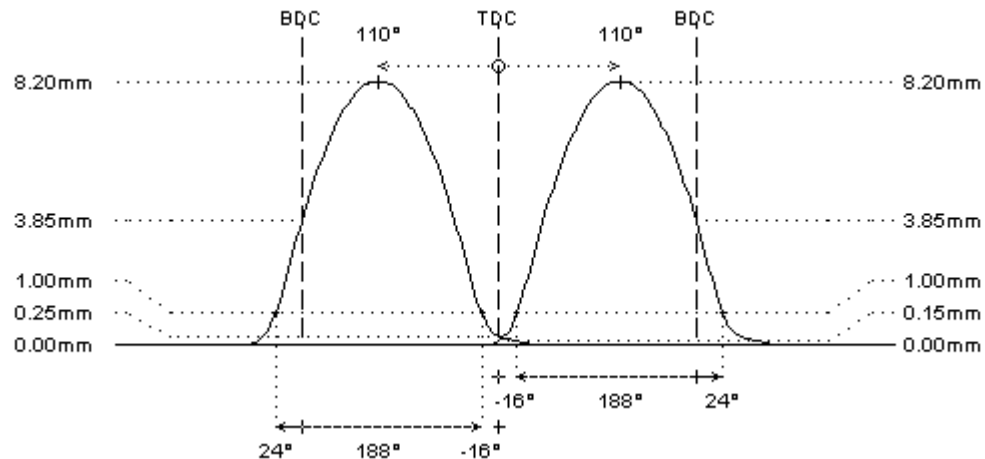
**parts setup:**

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 @ 34.5mm	: 0kg @ 34.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

**REMARKS :**

# original valve spring info is not available



**REMARKS :**

# 2700902

sport

Hyundai 160hp / 230Nm

V-6cyl 2.5L 24v DOHC (DTH/DTH)



**intake**                      **exhaust**

**camshaft data:**

lash ramp	: hydro	hydro
duration @ 0.1mm	: 246°	246°
duration @ 1.0mm	: 202°	202°
valve lift	: 8.95mm	8.95mm
cam lift	:	
lobe angle	: 110°	110°
timing @ 1.0mm	: -8° / 30°	32° / -10°
valve lift @ TDC	: 0.35mm	0.35mm

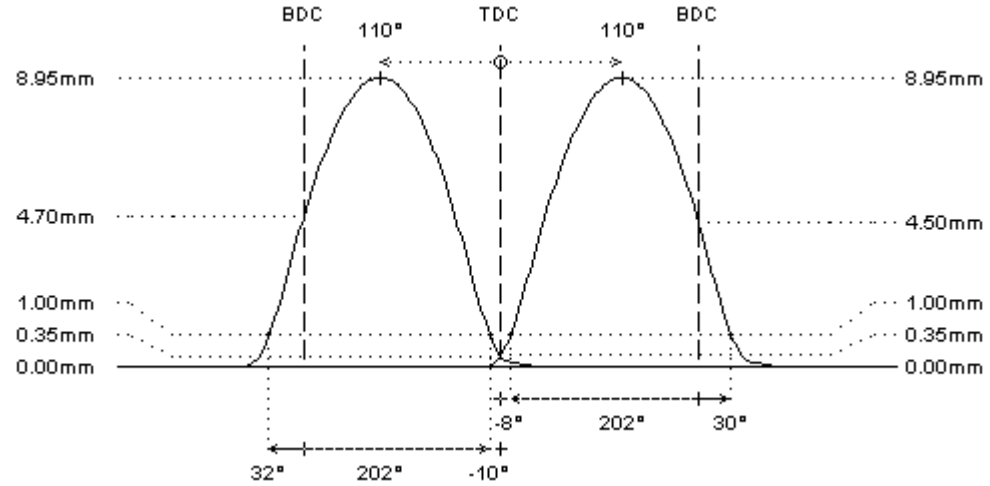
**parts setup:**

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 @ 34.5mm	: 0kg @ 34.0mm
max. load / lift	: 0kg @ 0.0mm	: 0kg @ 0.0mm

**REMARKS :**

# original valve spring info is not available



**REMARKS :**

# ECU reprogramming required

# 2700903

hot street - dirt track

Hyundai 160hp / 230Nm

V-6cyl 2.5L 24v DOHC (DTH/DTH)



### intake

### exhaust

#### camshaft data:

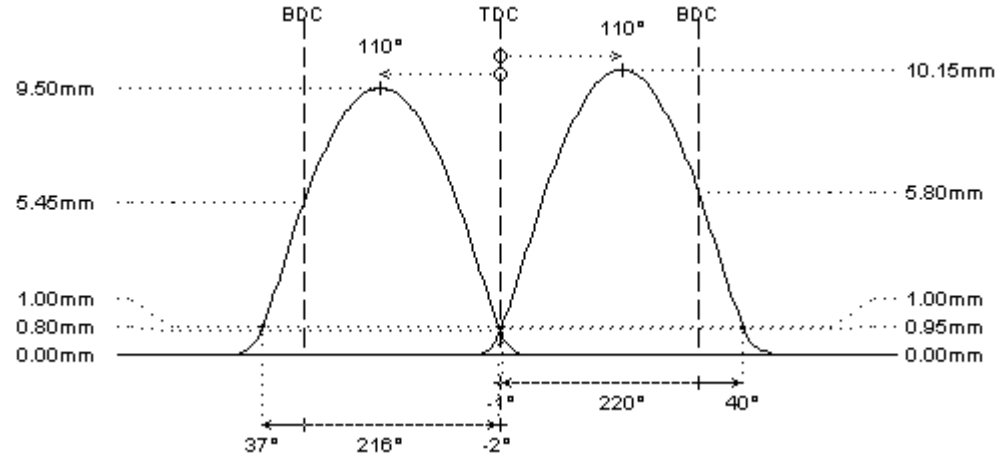
lash ramp	: hydro	hydro
duration @ 0.1mm	: 254°	247°
duration @ 1.0mm	: 219°	215°
valve lift	: 10.15mm	9.50mm
cam lift	:	
lobe angle	: 110°	110°
timing @ 1.0mm	: -1° / 40°	37° / -2°
valve lift @ TDC	: 0.95mm	0.80mm

#### 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	:  PAC-E99862	:  PAC-E99862
interior spring	:	:

fitted load / length	: 31kg @ 34.5mm	: 33kg @ 34.0mm
max. load / lift	: 85kg @ 12.5mm	: 85kg @ 12.0mm

#### 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

# 2700904

hot street - dirt track

Hyundai 160hp / 230Nm

V-6cyl 2.5L 24v DOHC (DTH/DTH)



### intake

### exhaust

#### camshaft data:

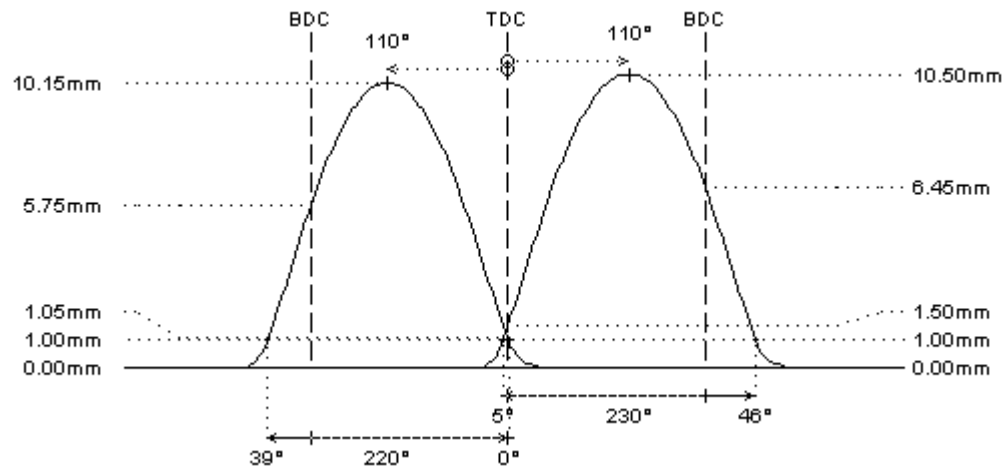
lash ramp	: hydro	hydro
duration @ 0.1mm	: 264°	254°
duration @ 1.0mm	: 231°	219°
valve lift	: 10.50mm	10.15mm
cam lift	:	
lobe angle	: 110°	110°
timing @ 1.0mm	: 5° / 46°	39° / -0°
valve lift @ TDC	: 1.50mm	1.05mm

#### 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 :	PAC-E99862	PAC-E99862
interior spring :		

fitted load / length	: 31kg @ 34.5mm	: 33kg @ 34.0mm
max. load / lift	: 85kg @ 12.5mm	: 85kg @ 12.0mm

#### 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

# 2700953

hot street - dirt track

Hyundai 160hp / 230Nm

V-6cyl 2.5L 24v DOHC (DTH/DTH)



### intake

### exhaust

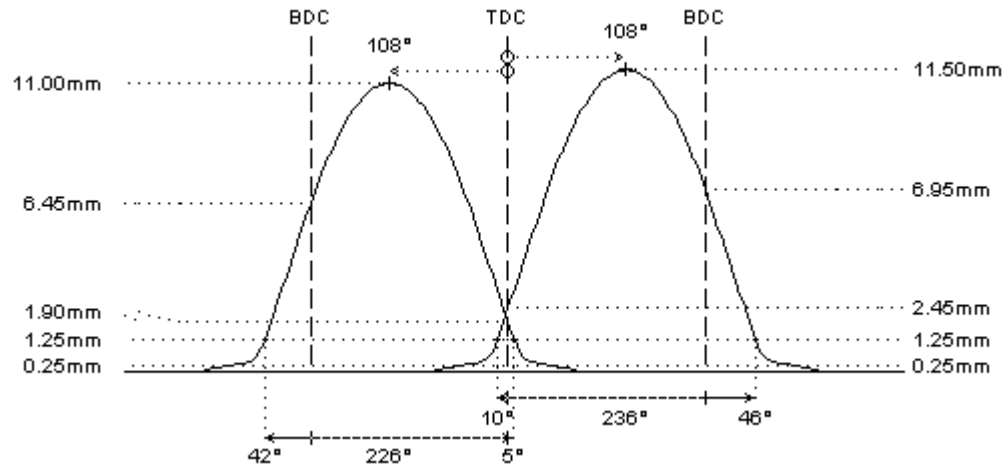
#### camshaft data:

lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 269°	260°
duration @ 1.0mm	: 236°	227°
valve lift	: 11.50mm	11.00mm
cam lift	:	
lobe angle	: 108°	108°
timing @ 1.0mm	: 10° / 46°	42° / 5°
valve lift @ TDC	: 2.45mm	1.90mm

#### parts setup:

cam wheels :	:	:
follower	: <b>CC017</b>	: <b>CC017</b>
valve lash	: <b>TS101</b>	: <b>TS101</b>
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	: <b>PAC-E99862</b>	: <b>PAC-E99862</b>
interior spring	:	:
fitted load / length	: 31kg @ 34.5mm	: 33kg @ 34.0mm
max. load / lift	: 85kg @ 12.5mm	: 85kg @ 12.0mm

#### REMARKS :



#### REMARKS :

- # valve clearance is to be adjusted using mechanical lash caps. these can have different shapes according the application:
  - plates available in different diameters and thickness
  - cups for different valve stem diameters. these center on either tappet or valve stem
  - other specific shapes available on request
- # 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

# 2700954

tarmac rally - race

Hyundai 160hp / 230Nm

V-6cyl 2.5L 24v DOHC (DTH/DTH)



### intake

### exhaust

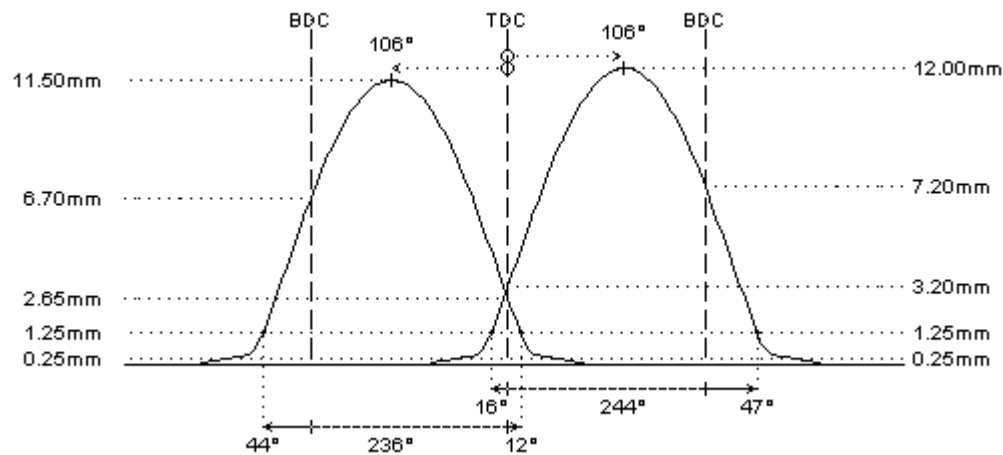
#### camshaft data:

lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 277°	269°
duration @ 1.0mm	: 243°	236°
valve lift	: 12.00mm	11.50mm
cam lift	:	
lobe angle	: 106°	106°
timing @ 1.0mm	: 16° / 47°	44° / 12°
valve lift @ TDC	: 3.20mm	2.65mm

#### parts setup:

cam wheels :	:	:
follower	:  CC017	:  CC017
valve lash	:  TS101	:  TS101
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-E99862	:  PAC-E99862
interior spring	:	:
fitted load / length	: 31kg @ 34.5mm	: 33kg @ 34.0mm
max. load / lift	: 85kg @ 12.5mm	: 85kg @ 12.0mm

#### REMARKS :



#### REMARKS :

- # valve clearance is to be adjusted using mechanical lash caps. these can have different shapes according the application:
  - plates available in different diameters and thickness
  - cups for different valve stem diameters. these center on either tappet or valve stem
  - other specific shapes available on request
- # 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

# 2700955

full race

Hyundai 160hp / 230Nm

V-6cyl 2.5L 24v DOHC (DTH/DTH)



### intake

### exhaust

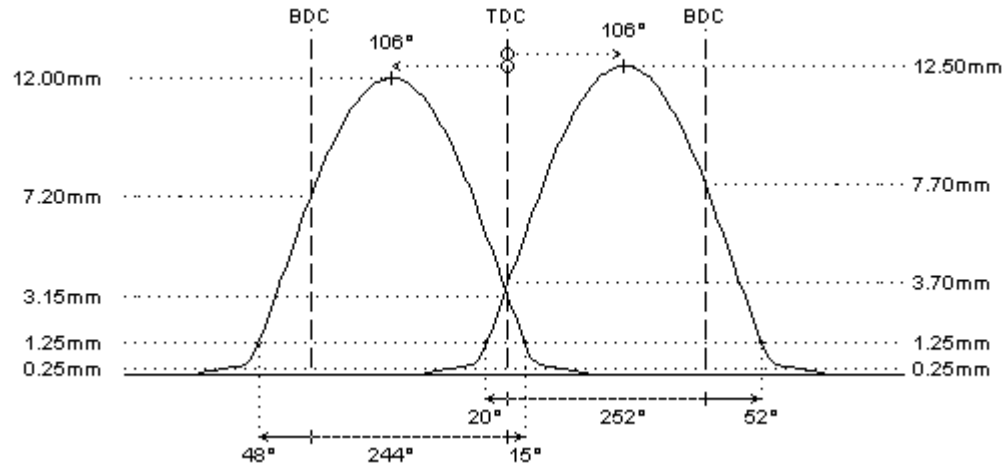
#### camshaft data:

lash ramp	: 0.25mm	0.25mm
duration @ 0.1mm	: 285°	277°
duration @ 1.0mm	: 252°	243°
valve lift	: 12.50mm	12.00mm
cam lift	:	
lobe angle	: 106°	106°
timing @ 1.0mm	: 20° / 52°	48° / 15°
valve lift @ TDC	: 3.70mm	3.15mm

#### parts setup:

cam wheels :	:	:
follower	: <b>CC017</b>	: <b>CC017</b>
valve lash	: <b>TS101</b>	: <b>TS101</b>
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	: <b>PAC-E99862</b>	: <b>PAC-E99862</b>
interior spring	:	:
fitted load / length	: 31kg @ 34.5mm	: 33kg @ 34.0mm
max. load / lift	: 85kg @ 12.5mm	: 85kg @ 12.0mm

#### REMARKS :



#### REMARKS :

- # valve clearance is to be adjusted using mechanical lash caps. these can have different shapes according the application:
  - plates available in different diameters and thickness
  - cups for different valve stem diameters. these center on either tappet or valve stem
  - other specific shapes available on request
- # 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 carburettors