

# 5503506

tarmac rally - race

Renault F4R.830 Clio III (VVT in, 197hp)

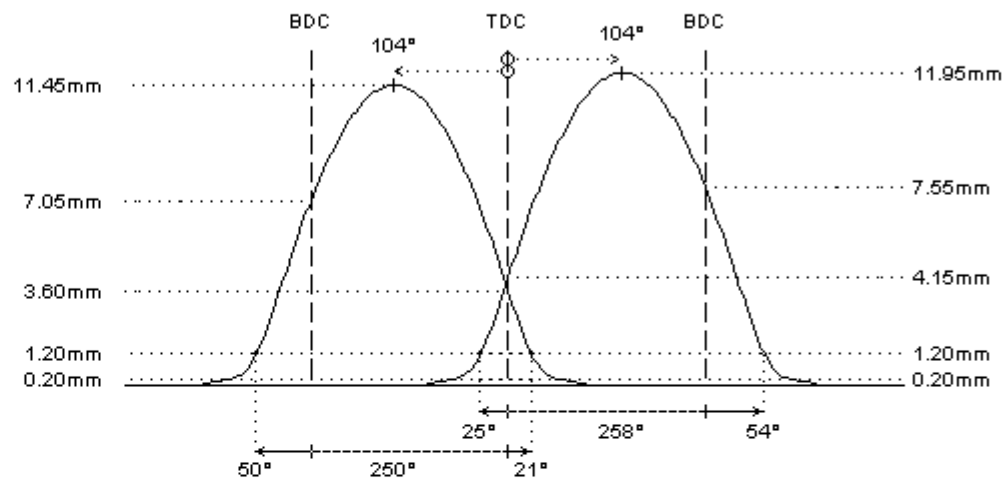
I-4cyl 2.0L 16v DOHC (RPRH/RPRH)



	intake	exhaust
<b>camshaft data:</b>		
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 295°	288°
duration @ 1.0mm	: 259°	251°
valve lift	: 11.95mm	11.45mm
cam lift	: 6.05mm	5.80mm
lobe angle	: 104°	104°
timing @ 1.0mm	: 25° / 54°	50° / 21°
valve lift @ TDC	: 4.15mm	3.60mm
<b>parts setup:</b>		
cam wheels :	:  CTRE006	:  CTRE006
follower	: O.E.M.	: O.E.M.
valve lash	:  CC083	:  CC083
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 :

# modify hydraulic elements to mechanic or replace by solid mechanic elements with lash caps TS103 underneath



#### REMARKS :

- # - camshafts for use with adjustable cam wheel on intake (without VVT)
- adjustable sensor ring [ref. 99025] for intake camshaft must be ordered separately if required for engine management system
- # 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