

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemCapri 20001979 to 1988

Type		NEN (OHC)
Capacity (cm³) / number of cylinders		1993 / 4
Compression ratio / pressure	bar	9.2 / 11 to 13
Oil pressure	bar	2.1 [2.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.25
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 98
Radiator cap pressure	bar	0.9

Fuel systemCapri 20001979 to 1988

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	2000±100
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Weber
Type / ref		2V
Main jet / needle		137, 127 [135, 127 AT]
Injection pressure	bar	—
Pump pressure	bar	0.28 to 0.36
Octane rating	RON	97[R]

Ignition systemCapri 20001979 to 1988

Type		Contact breaker - CIS
Ignition coil		Various
Primary resistance	ohms	0.95 to 1.6
Ballast resistor	ohms	1.5
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Motorcraft
Points gap (air gap)	mm	0.64
Dwell angle	° (%)	48 to 52
Condenser capacity	µF	0.21 to 0.25
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	5 to 9 @ 1500
	° Crankshaft @ rpm	14 to 19 @ 3000
	° Crankshaft @ rpm	20 to 24.5 @ 4500
Vacuum range check	mbar	85 to 339
Maximum vacuum advance	° Crankshaft	8 to 12
Spark plugs		Motorcraft/Champion
Type		BF22 / F7YC
Electrode gap	mm	0.60

Electrical systemCapri 20001979 to 1988

Battery	V / CC / RC	12 / 200 / 70
Alternator voltage / full load current / engine rpm		13.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	45 to 79 / 12
- locked	A / V	380 to 775 / 7

Running gearCapri 20001979 to 1988

Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—

Tyres		
Saloon	Size	165x13: 185/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	165x13: 1.5 / 1.9 ¹
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +7.0
Camber		+15' to +1°45'
Castor		+33' to +1°48'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settingsCapri 20001979 to 1988

Cylinder head - stage 1	Nm	Splined: 20 to 40 ²
- stage 2	Nm	Splined: 49 to 69 ³
Cylinder head - stage 3	Nm	Splined: 83 to 93 ⁴
- stage 4	Nm	Splined:88 to 108 ⁵
Big-end bearings	Nm	41 to 48
Main bearings	Nm	88 to 102
Clutch cover	Nm	16 to 21
Flywheel [driveplate]	Nm	65 to 71
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	69 to 87
Spark plugs	Nm	20 to 28

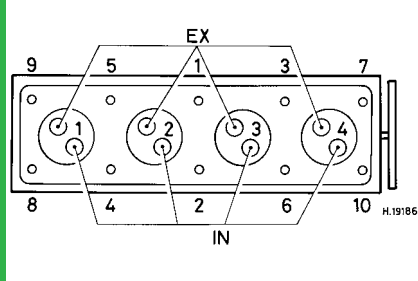
CapacitiesCapri 20001979 to 1988

Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.5 [1.9]
Automatic transmission - refill	litres	6.5
Final drive	litres	1.1
Cooling system	litres	6.1
Fuel tank	litres	58

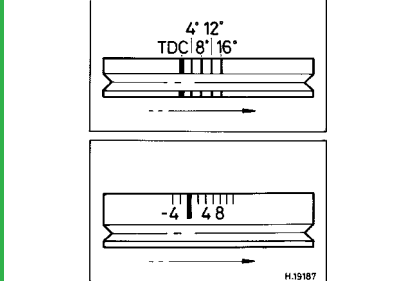
Notes and Illustrations

- ¹**185/70x13: 1.5 / 1.6**
- ²**Torx: 35 to 40**
- ³**Torx: 70 to 75**
- ⁴**Torx: Wait 5 mins. + 90°**
- ⁵**Splined: Wait 10 to 20 min. Warm engine & retorque to S4 in sequence shown. NOT Torx**

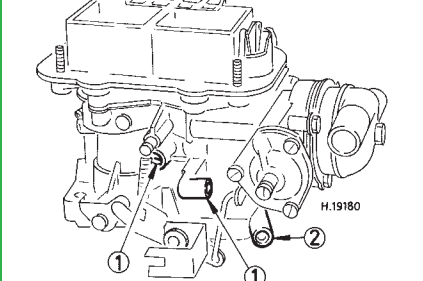
1: Idle speed2: CO / Mixture



1993 cm³



1993 cm³



Weber 2V