

Engine & Cooling

Fuel

Ignition

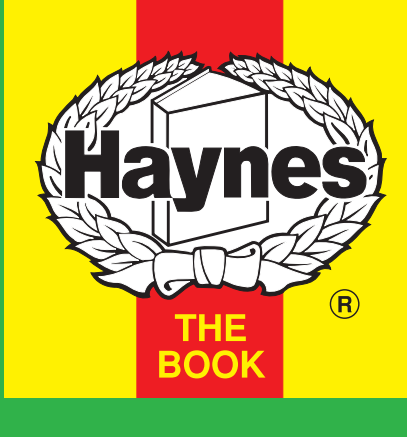
Electrical

Running gear

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Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

Prairie 1.8 (M10)

1985 to 1989

Type		CA18S SOHC
Capacity (cm ³) / number of cylinders		1809 / 4
Compression ratio / pressure	bar	8.8 / ≥9.0
Oil pressure	bar	2.0 [3.9]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.30 H
Valve clearance - exhaust	mm	0.30 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.88

Fuel system

Prairie 1.8 (M10)

1985 to 1989

Idle speed - manual [auto]	rpm	750±100
Fast idle speed - manual [auto]	rpm	2000 to 2300
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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		Nikki
Type / ref		21E304-581
Main jet / needle		103, 190
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.27
Octane rating	RON	97[RA] ¹

Ignition system

Prairie 1.8 (M10)

1985 to 1989

Type		Electronic
Ignition coil		Hanshin. Hitachi
Primary resistance	ohms	1.4 to 1.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±1 BTDC @ 750±50 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	10 @ 2400
	° Crankshaft @ rpm	17 @ 4200
Vacuum range check	mbar	93 to 467
Maximum vacuum advance	° Crankshaft	20
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical system

Prairie 1.8 (M10)

1985 to 1989

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.4 to 15.0 / 60 / 2500
Starter motor current / voltage - cranking	A / V	60 / 11.5
- locked	A / V	—

Running gear

Prairie 1.8 (M10)

1985 to 1989

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

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

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 3.0
Camber		-10' to +1°20'
Castor		-15' to +1°15'
King pin inclination		+11°50' to 13°20'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.0 to +8.0
Camber		-1° to +1°

Torque wrench settings

Prairie 1.8 (M10)

1985 to 1989

Cylinder head - stage 1	Nm	39 to 44
- stage 2	Nm	74 to 83
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	29 to 37
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	98 to 108
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	20 to 29

Capacities

Prairie 1.8 (M10)

1985 to 1989

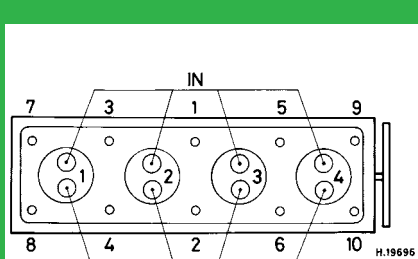
Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.5 ²
Fuel tank	litres	50

Notes and Illustrations

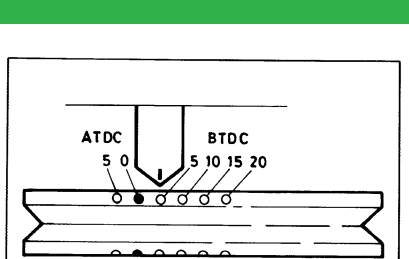
¹[E 95 RON]: 0 TDC @ 750

²With rear heater: 8.5

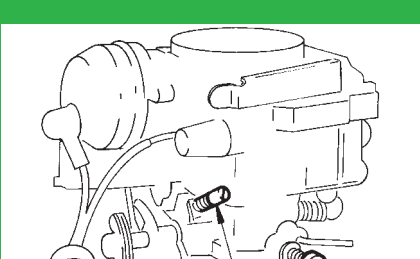
1: Idle speed 2: CO / Mixture



1809 cm³



1809 cm³



21E304