Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU HELP

Engine and cooling system

Prairie 1.8 (M10) 1985 to 1989

Type		CA18S SOHC
Capacity (cm³) / number of cylinders		1809 / 4
Compression ratio / pressure	bar	8.8 / ≥9.0
Oil pressure	bar	2.0 [3.9]
Oil temperature	ºC	_
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	ºC	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	º (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	5±1 BTDC @ 750±50¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	0 @ 1200
	º Crankshaft @ rpm	10 @ 2400
	º Crankshaft @ rpm	17 @ 4200
Vacuum range check	mbar	93 to 467
Maximum vacuum advance	º 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 [º]	+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 [º]	-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

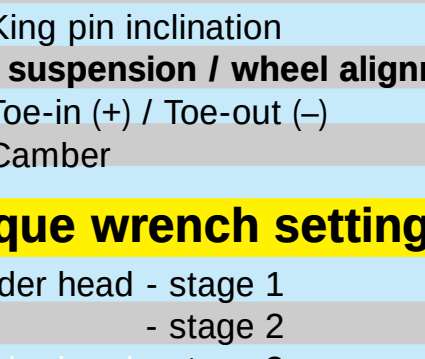
Prairie 1.8 (M10) 1985 to 1989

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	6.5²
Fuel tank	litres	50

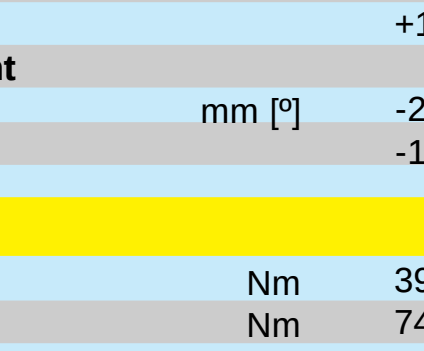
Notes and Illustrations

¹**[E 95 RON]: 0 TDC @ 750**
²**With rear heater: 8.5**

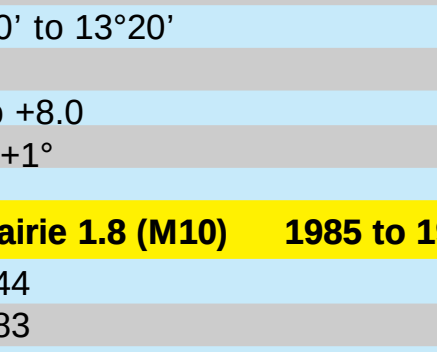
1: Idle speed 2: CO / Mixture



1809 cm³



1809 cm³



21E304