

Engine & Cooling

Fuel

Ignition

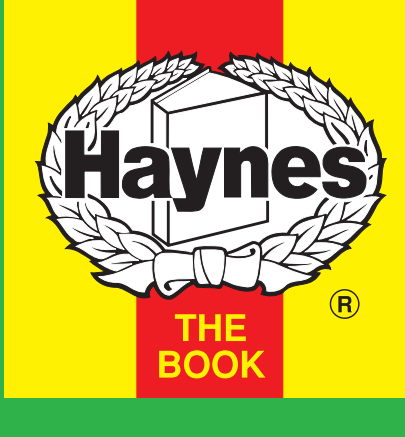
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemPrairie 2.0 4x4 (M10)1986 to 1989

Type		CA20S SOHC
Capacity (cm³) / number of cylinders		1974 / 4
Compression ratio / pressure	bar	9.4 / ≥9.0
Oil pressure	bar	[2.9 to 3.9]
Oil temperature	°C	80
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	88
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemPrairie 2.0 4x4 (M10)1986 to 1989

Idle speed - manual [auto]	rpm	750±100
Fast idle speed - manual [auto]	rpm	2500 to 2800
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		Hitachi
Type / ref		DCR342-101
Main jet / needle		106, 160
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.27
Octane rating	RON	97[R]

Ignition systemPrairie 2.0 4x4 (M10)1986 to 1989

Type		Electronic
Ignition coil		Hanshin. Hitachi
Primary resistance	ohms	0.8 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±1 BTDC @ 750
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	13±5 BTDC @ 750
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000
	° Crankshaft @ rpm	10 @ 2400 to 3000
	° Crankshaft @ rpm	19 to 23 @ 4800
Vacuum range check	mbar	147 to 440
Maximum vacuum advance	° Crankshaft	21
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical systemPrairie 2.0 4x4 (M10)1986 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 gearPrairie 2.0 4x4 (M10)1986 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	165x14: 185/70x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-0.4 to +1.6
Camber		-28’ to +1°2’
Castor		+35’ to 2°5’
King pin inclination		+10°57’ to 12°27’

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-4.0 to 0
Camber		0 to +1°30’ N/A

Torque wrench settingsPrairie 2.0 4x4 (M10)1986 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	32 to 36
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	98 to 108
Front hubs	Nm	235 to 314
Rear hubs	Nm	235 to 314
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

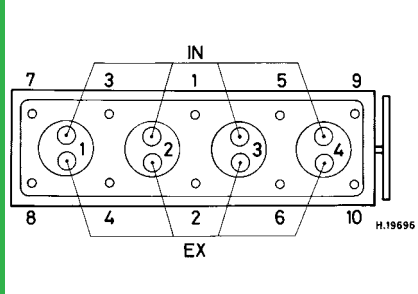
CapacitiesPrairie 2.0 4x4 (M10)1986 to 1989

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	4.7. Transfer: 1.1
Automatic transmission - refill	litres	—
Final drive	litres	1.0
Cooling system	litres	6.7
Fuel tank	litres	50

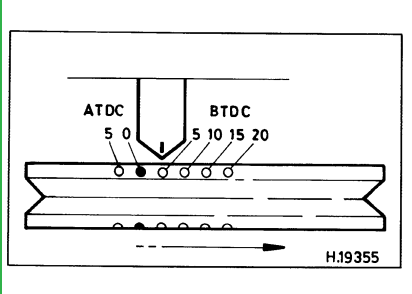
Notes and Illustrations



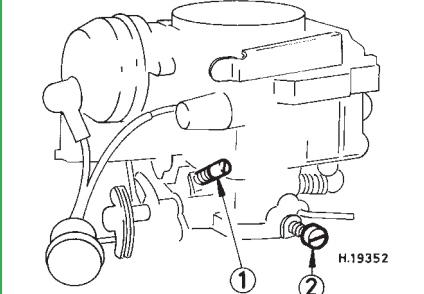
1: Idle speed 2: CO / Mixture



1974 cm³



1974 cm³



DCR342