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 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 system

		Prairie 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 system

		Prairie 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 system

		Prairie 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 gear

		Prairie 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 settings

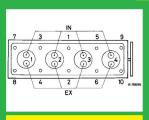
		Prairie 2.0 4x4 (M10) 1986 to 1989
Cylinder head - stage 1	Nm	39 to 44
- stage 2	Nm	74 to 83
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	32 to 36
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	98 to 108
Front hubs	Nm	235 to 314
Rear hubs	Nm	235 to 314
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

Capacities

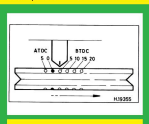
		Prairie 2.0 4x4 (M10) 1986 to 1989
Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	4.7. Transfer: 1.1
Automatic transmission - refill	litres	_
Final drive	litres	1.0
Cooling system	litres	6.7
Fuel tank	litres	50

Notes and Illustrations

1: Idle speed 2: CO / Mixture



1974 cm³



1974 cm³

DCR342