

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

Space Wagon

1989

Type		4G37
Capacity (cm ³) / number of cylinders		1755 / 4
Compression ratio / pressure	bar	9.5 / ≥9.6
Oil pressure	bar	—
Oil temperature	°C	—
Valve clearance - inlet	mm	0.15 H
Valve clearance - exhaust	mm	0.25 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.76 to 1.04

Fuel system

Space Wagon

1989

Idle speed - manual [auto]	rpm	700±100
Fast idle speed - manual [auto]	rpm	—
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		Aisan
Type / ref		1EAA [1EAB] 2V
Main jet / needle		106, 177
Injection pressure	bar	—
Pump pressure	bar	0.30 to 0.40
Octane rating	RON	97[RA] ¹

Ignition system

Space Wagon

1989

Type		Electronic
Ignition coil		MD 069937
Primary resistance	ohms	1.08 to 1.32
Ballast resistor	ohms	1.22 to 1.49
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	[0.80]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	13±2 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000
	° Crankshaft @ rpm	9 @ 2500
	° Crankshaft @ rpm	14 @ 6000
Vacuum range check	mbar	107 to 480
Maximum vacuum advance	° Crankshaft	20
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

Space Wagon

1989

Battery	V / CC / RC	12 / 52Ah
Alternator voltage / full load current / engine rpm		13.4 to 14.9 / _ / 3000
Starter motor current / voltage - cranking	A / V	60 / 11.5 (no load)
- locked	A / V	—

Running gear

Space Wagon

1989

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	—
Estate / Van	Size	165x13: 185/70x13
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.7 / 1.7

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.5
Camber		+25'±30'
Castor		+50'±30'
King pin inclination		+13°16'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.5±3.0
Camber		+40'+40'-10'

Torque wrench settings

Space Wagon

1989

Cylinder head - stage 1	Nm	70 to 75 C
- stage 2	Nm	80 to 85 H
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	32 to 35
Main bearings	Nm	50 to 55
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	130 to 140
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	69 to 79
Spark plugs	Nm	20 to 30

Capacities

Space Wagon

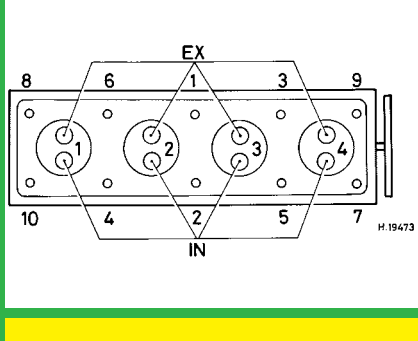
1989

Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	2.1
Automatic transmission - refill	litres	5.8
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	50

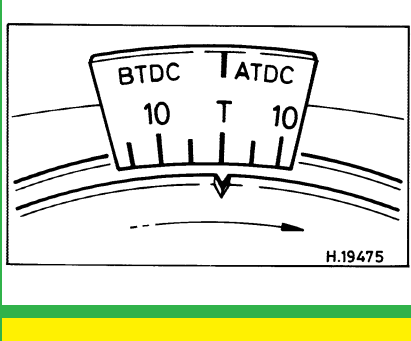
Notes and Illustrations

¹[E 95 RON]: retard ignition timing 2°

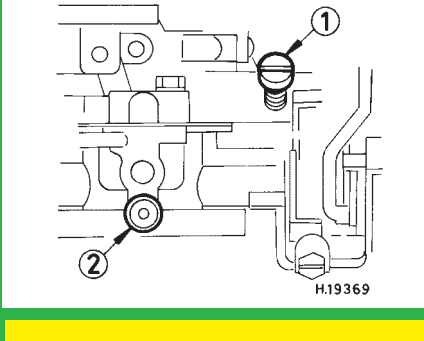
1: Idle speed 2: CO / Mixture



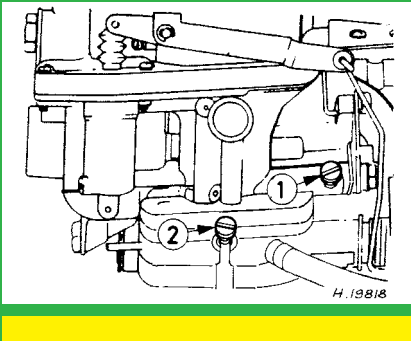
1755 cm³



1755 cm³



Aisan



Aisan, alternative