

Engine & Cooling

Fuel

Ignition

Electrical

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Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system1.5 12 valve1990 to 1992

Type		4G15-2 SOHC 12V
Capacity (cm ³) / number of cylinders		1468 / 4
Compression ratio / pressure	bar	9.2 / 13.1
Oil pressure	bar	≥0.76
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 system1.5 12 valve1990 to 1992

Idle speed - manual [auto]	rpm	800±50 [850±50]
Fast idle speed - manual [auto]	rpm	1700±200 [1700±50]
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Aisan
Type / ref		VV
Main jet / needle		03
Injection pressure	bar	—
Pump pressure	bar	0.19 to 0.26
Octane rating	RON	92[E 95 RON]

Ignition system1.5 12 valve1990 to 1992

Type		Electronic
Ignition coil		In distributor
Primary resistance	ohms	0.9 to 1.2
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	3±2 BTDC @ 800
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	12 @ 5500
Vacuum range check	mbar	153 to 400
Maximum vacuum advance	° Crankshaft	14
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system1.5 12 valve1990 to 1992

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.4 to 14.9 / _ / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear1.5 12 valve1990 to 1992

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

Tyres		
Saloon	Size	175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.7 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.5
Camber		0±30'
Castor		+1°6'±30'. PAS: +1°43'±30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0
Camber		-40'±35'

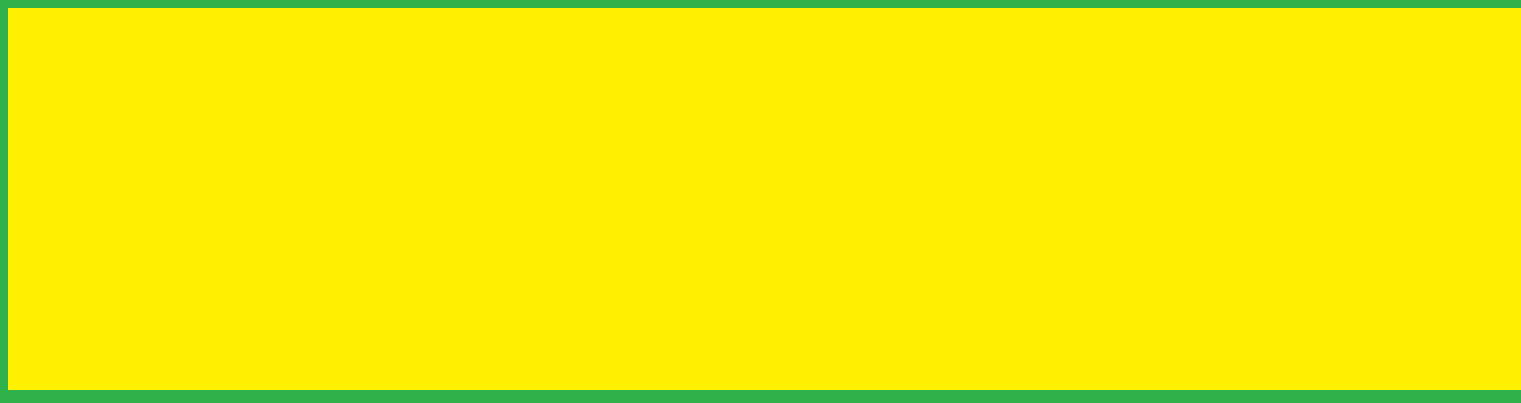
Torque wrench settings1.5 12 valve1990 to 1992

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	79 to 98
Wheel nuts / bolts	Nm	80
Spark plugs	Nm	20 to 30

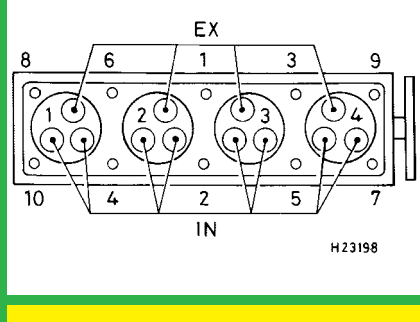
Capacities1.5 12 valve1990 to 1992

Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	2.1
Automatic transmission - refill	litres	5.8
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	45

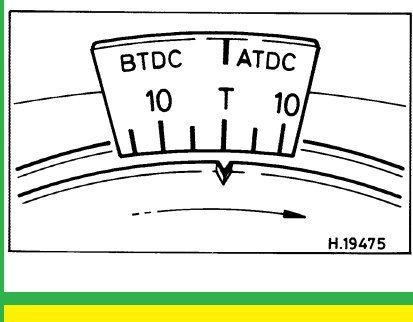
Notes and Illustrations



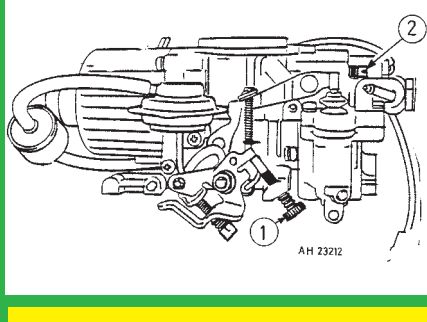
1: Idle speed 2: CO / Mixture



1468 cm³, 12V



1468 cm³, 12V



Aisan VV