

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system1.51989 to 1990

Type		4G15 SOHC
Capacity (cm ³) / number of cylinders		1468 / 4
Compression ratio / pressure	bar	9.4 / 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 system1.51989 to 1990

Idle speed - manual [auto]	rpm	800±50 [850±50]
Fast idle speed - manual [auto]	rpm	1500±250
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		2V 7AE [AT: 7EB]
Main jet / needle		93, 150
Injection pressure	bar	—
Pump pressure	bar	0.19 to 0.26
Octane rating	RON	95[E 95 RON]

Ignition system1.51989 to 1990

Type		Electronic
Ignition coil		Diamond E064
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	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6 BTDC @ 850
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1600
	° Crankshaft @ rpm	6 @ 3800
	° Crankshaft @ rpm	18 @ 6000
Vacuum range check	mbar	132 to 400
Maximum vacuum advance	° Crankshaft	15
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system1.51989 to 1990

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 gear1.51989 to 1990

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 settings1.51989 to 1990

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

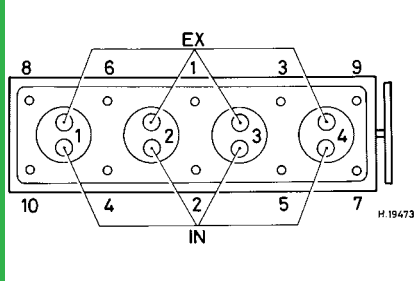
Capacities1.51989 to 1990

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

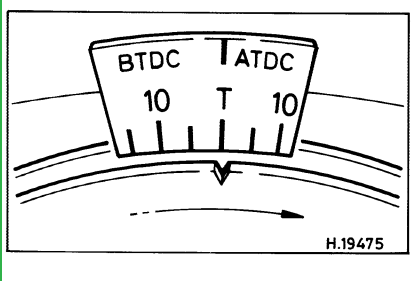
Notes and Illustrations



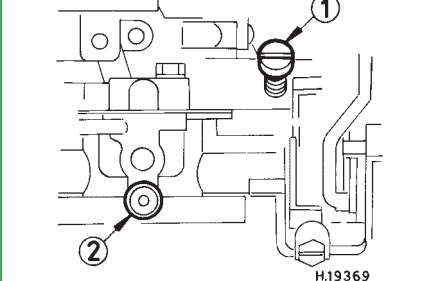
1: Idle speed 2: CO / Mixture



1468 cm³, 8V



1468 cm³, 8V



Aisan 2V