

Engine & Cooling

Fuel

Ignition

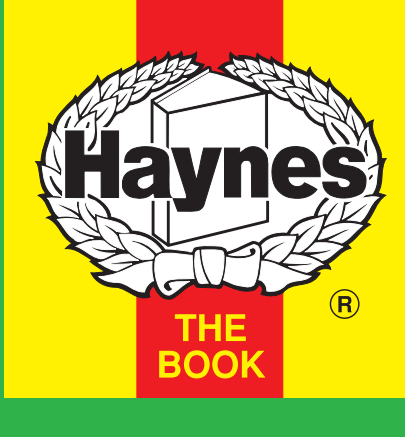
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

L200 & 4x4 Pick-up

1986 to 1994

Type		4G63-3
Capacity (cm ³) / number of cylinders		1997 / 4
Compression ratio / pressure	bar	8.6 / ≥9.6
Oil pressure	bar	0.8
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15 H
Valve clearance - exhaust	mm	0.25 H
Firing order		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	88±1.5
Radiator cap pressure	bar	0.76 to 1.04

Fuel system

L200 & 4x4 Pick-up

1986 to 1994

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Aisan
Type / ref		3EZA. 2V
Main jet / needle		106, 185
Injection pressure	bar	—
Pump pressure	bar	0.32 to 0.42
Octane rating	RON	96[R]

Ignition system

L200 & 4x4 Pick-up

1986 to 1994

Type		Electronic
Ignition coil		Diamond
Primary resistance	ohms	1.2
Ballast resistor	ohms	—
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±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 800
	° Crankshaft @ rpm	10 @ 3000
	° Crankshaft @ rpm	—
Vacuum range check	mbar	173 to 533
Maximum vacuum advance	° Crankshaft	12
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

L200 & 4x4 Pick-up

1986 to 1994

Battery	V / CC / RC	12 / 48Ah
Alternator voltage / full load current / engine rpm		13.4 to 14.9 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

L200 & 4x4 Pick-up

1986 to 1994

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

Tyres		
Saloon	Size	—
Estate / Van	Size	185x14: 205x16
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2WD: 1.8 / 2.2 ¹

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 4.5
Camber		+40'±30'. 4x4: +1°±30'
Castor		+3°±1°. 4x4: +2°±1°
King pin inclination		—

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

Torque wrench settings

L200 & 4x4 Pick-up

1986 to 1994

Cylinder head - stage 1	Nm	90 to 100 C
- stage 2	Nm	100 to 110 H
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	50 to 53
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	120 to 140
Spark plugs	Nm	20 to 30

Capacities

L200 & 4x4 Pick-up

1986 to 1994

Engine oil & filter	litres	4.0. 4x4: 5.0
Gearbox - 4-speed [5-speed]	litres	2.3. 4x4: 2.2 ²
Automatic transmission - refill	litres	—
Final drive	litres	1.5 ³
Cooling system	litres	6.8. 4x4: 6.7
Fuel tank	litres	69. 4x4: 60

Notes and Illustrations

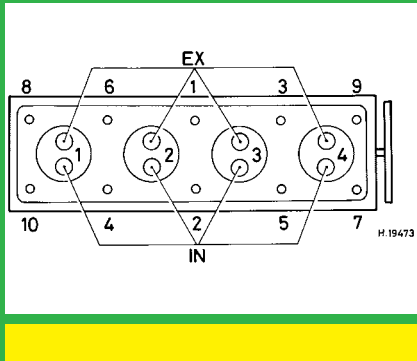
¹4x4: 1.8 / 1.8

²Transfer box: 2.2

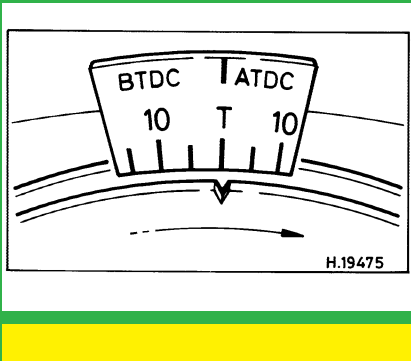
³4x4: Front: 1.1. Rear: 1.5

1: Idle speed

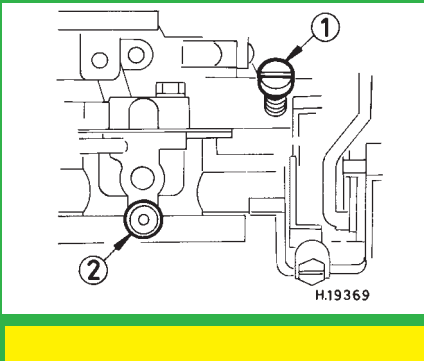
2: CO / Mixture



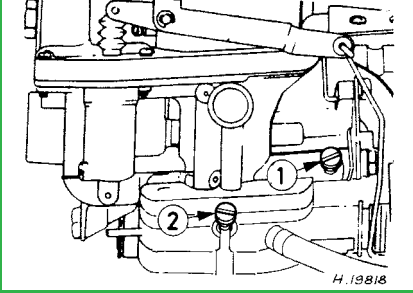
1997 cm³



1997 cm³



Aisan



Aisan, alternative