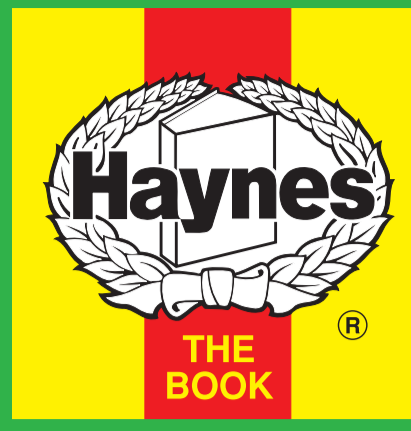


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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 4x4 Pick-up (D21) 1986 to 1994

Type		Z24S SOHC
Capacity (cm ³) / number of cylinders		2389 / 4
Compression ratio / pressure	bar	8.3 / ≥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		F
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.78 to 1.00

Fuel system 4x4 Pick-up (D21) 1986 to 1994

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	2300±100
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		Hitachi
Type / ref		DCR384-37. LHD: -36
Main jet / needle		108, 170. RHD: 107, 170
Injection pressure	bar	-
Pump pressure	bar	0.20 to 0.27 ¹
Octane rating	RON	88[E 91 RON]

Ignition system 4x4 Pick-up (D21) 1986 to 1994

Type		Contact breaker - CIS
Ignition coil		Hanshin HP5-13E25
Primary resistance	ohms	1.4 to 1.7
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor		Mitsubishi
Points gap (air gap)	mm	0.45 to 0.55
Dwell angle	° (%)	49 to 55
Condenser capacity	µF	0.20 to 0.24
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	3±2 BTDC @ 800±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	15±5 BTDC @ 800±50
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	0 @ 1300
	° Crankshaft @ rpm	14 @ 2700
	° Crankshaft @ rpm	19 @ 4200
Vacuum range check	mbar	133 to 307
Maximum vacuum advance	° Crankshaft	16
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical system 4x4 Pick-up (D21) 1986 to 1994

Battery	V / CC / RC	12 / 180 / 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 50 / 2500
Starter motor current / voltage - cranking	A / V	100 / 11.5
- locked	A / V	-

Running gear 4x4 Pick-up (D21) 1986 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	-
Estate / Van	Size	205x16
Pressure - front / rear - Saloon	bar	-
- Estate / Van	bar	1.8 / 2.2

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0 to 5.0 ²
Camber		-10' to +1°10' ³
Castor		+48' to +1°48' ⁴
King pin inclination		+7°36' to 8°36' ⁵

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-
Camber		-

Torque wrench settings 4x4 Pick-up (D21) 1986 to 1994

Cylinder head - stage 1	Nm	29
- stage 2	Nm	78
Cylinder head - stage 3	Nm	Loosen, then 29
- stage 4	Nm	+ 90 to 95°
Big-end bearings	Nm	37 to 45
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	137 to 157
Front hubs	Nm	WSM
Rear hubs	Nm	-
Wheel nuts / bolts	Nm	118 to 147
Spark plugs	Nm	20 to 29

Capacities 4x4 Pick-up (D21) 1986 to 1994

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	4.0 ⁶
Automatic transmission - refill	litres	-
Final drive	litres	Front: 1.3 ⁷
Cooling system	litres	8.2
Fuel tank	litres	60, 80

Notes and Illustrations

¹PAS: 0.15

²87 ▶: +2.0 to 6.0. 90 ▶: +4.0±1.0

³87 ▶: -5' to +1°25'. 90 ▶: +36'±30'

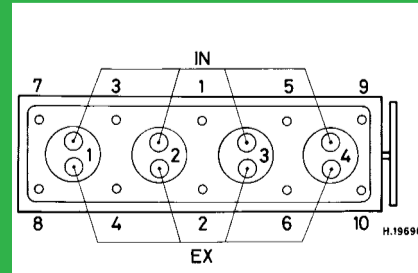
⁴87 ▶: +33' to 2°3'. 90 ▶: +1°18'±30'

⁵87 ▶: +7°21' to 8°51'. 90 ▶: +8°5'±30'

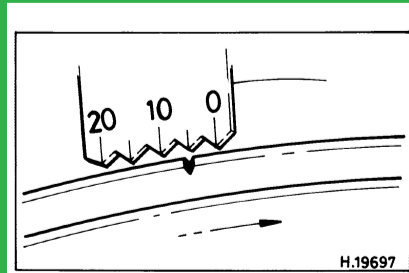
⁶Transfer: 2.2

⁷Rear: 2.8

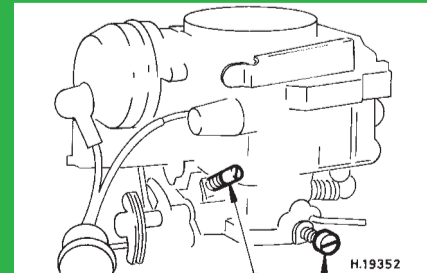
1: Idle speed 2: CO / Mixture



2389 cm³, 8V



2389 cm³, 8V



Hitachi DCR