

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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HELP

Engine and cooling system			4x4 Pick-up (D21)	1986 to 1994
Type			Z24S SOHC	
Capacity (cm³) / 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	
CO2 @ idle speed [3000 rpm] - see page VI	%		—	
O2 @ 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*	
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°	
Camber			-10° to +1°10'±	
Castor			+48° to +1°48'±	
King pin inclination			+7°36' to 8°36'±	
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*	
Automatic transmission - refill	litres		—	
Final drive	litres		Front: 1.3*	
Cooling system	litres		8.2	
Fuel tank	litres		60, 80	
Notes and Illustrations				
PAS: 0.15				
*87 ±: +2.0 to 6.0, 90 ±: +4.0±1.0				
*87 ±: -5° to +1°25', 90 ±: +36°±30'				
*87 ±: +33° to 2°3', 90 ±: +1°18'±30'				
*87 ±: +7°21' to 8°51', 90 ±: +8°5'±30'				
*Transfer: 2.2				
*Rear: 2.8				
1: Idle speed 2: CO / Mixture				
2389 cm³, 8V	2389 cm³, 8V	Hitachi DCR		