

Telephone:
Fax:
VAT Registration No.:

Notes			Specified value	Measured value
Vehicle identification				
	No. of cylinders	Type	4/OHC	
	Capacity	cc	2189	
	Compression ratio	:1	21,5	
Injection system				
	Fuel/injection pump assembly	Make	Kiki	
	Fuel/injection pump assembly	Type	VE	
	Injection sequence		1-3-4-2	
	Injector nozzle	Make	Bosch	
	Nozzle opening pressure - new/used	bar	120/130	
Tuning and emissions				
	Plunger travel (pump)	mm ABDC	0,50	
	Crankshaft position (n = ATDC)	°BTDC	5	
	Adjusting method	Engine/Pump	Pointer/ Dial gauge	
	Idle speed	rpm	665	
	Rated no load speed	rpm	5200	
	Oil temperature	°C	80	
	Idle speed - for smoke test	rpm	650-700	
	Governed speed range - for smoke test	rpm	5100-5350	
	Maximum time at governed speed	secs	1,0	
	Test mode	A/B	B	
	Probe type	1/2	1	
	Conditioning	Accelerations/rpm	5-8	
	Smoke opacity - EU limit	m-1 (%)	2,50 (66)	
	Smoke opacity - homologation value	m-1 (%)	3,00 (73)	
Starting and charging				
	Battery	V/RC(Ah)	12/110 (68)	
	Starter motor	Make	Hitachi	
	Starter motor	Type	2,0kW	
	Maximum cranking amps	A	184-224	
	Alternator	Make	Nippon Denso	
	Alternator output	A/V/rpm	55/13,5/3500	
	Regulated voltage	V	14,2-14,8	
Glow plugs				
	Glow plug nominal rating	V/A	11/7,1	
	Glow plug activation time	secs	3,5-15,5	
	Glow plug - part no.	Bosch	0 250 202 086	
Service checks and adjustments				
	Valve clearance - INLET	mm	0,25 hot	
	Valve clearance - EXHAUST	mm	0,35 hot	
	Compression pressure	bar	30,0	
	Oil pressure	bar/rpm	4,5/-	
	Radiator cap	bar	0,9-1,2	
	Thermostat (primary/secondary) open	°C	81-84	
	Drive belt tension - alternator/PAS/AC	mm	10	
Lubricants and capacities				
	Engine oil grade - cold climate	SAE	5W/30	
	Engine oil grade - moderate climate	SAE	15W/40	
	Engine oil classification	API/ACEA	CF/B2-96	
	Engine oil grade - alternative - moderate climate	SAE	10W/40 Synthetic	

Manufacturer: ISUZU
Engine code: 4FD1
Tuned for:

Model: Midi 2,2D
Output: 45 (61) 4400
Year: 1986-94

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Engine oil classification - alternative - moderate climate	AT / ACEA	5 / 100-00	
Engine with filter(s)	litres	5,7	
Manual gearbox oil grade	SAE	20W/50	
Manual gearbox 4/5 speed	litres	1,5	
Differential oil grade - rear	SAE	90W	
Differential rear	litres	1,1	
Cooling system	litres	10,0	
Brake fluid	Type	DOT 3	
Power steering fluid	Type	Dexron II	

Tightening torques

Cylinder head instructions			
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Cylinder head

	Renew bolts	No	
Stage 1	Tighten	40 Nm	
Stage 2	Tighten	130 Nm	

Other tightening torques

Main bearings	Renew bolts/nuts	No	
Main bearings	Stage 1	48 Nm	
Main bearings	Stage 2	95 Nm	
Big end bearings	Renew bolts/nuts	No	
Big end bearings	Stage 1	40 Nm	
Big end bearings	Stage 2	80 Nm	
Oil pump to cylinder block		20 Nm	
Sump bolts		9 Nm	
Sump drain bolt		60 Nm	
Flywheel/driveplate		55 Nm	
Clutch to flywheel		18 Nm	
Crankshaft pulley/damper centre bolt		120 Nm	
Camshaft sprocket/gear		65 Nm	
Camshaft carrier/cap		25 Nm	
Camshaft/rocker cover		10 Nm	
Inlet manifold to cylinder head		40 Nm	
Exhaust manifold to cylinder head		20 Nm	
Injector/clamp		75 Nm	
Injector pipe unions		25 Nm	
Fuel/injection pump sprocket/gear		70 Nm	
Fuel/injection pump mounting		20 Nm	
Glow plugs		15 Nm	
9 Front hub			
Steering track rod end		68 Nm	
Brake disc to hub	Front	52 Nm	
Brake caliper to carrier	Front	83 Nm	
Brake caliper carrier to hub	Front	86 Nm	
Road wheels		108 Nm	

Brake disc and drum dimensions

Minimum disc thickness - ventilated	Front	16,6 mm	
Disc thickness variation	Front	0,030 mm	
Disc runout	Front	0,13 mm	
Minimum pad thickness	Front	1 mm	
Minimum shoe thickness	Rear	1 mm	
Parking brake travel	No. of notches	6	

Autodata Note 9

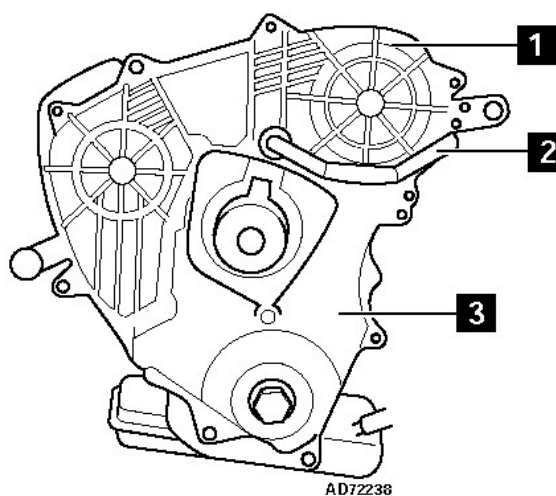
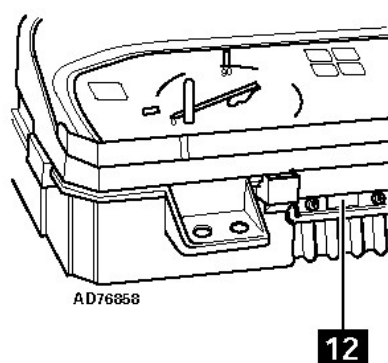
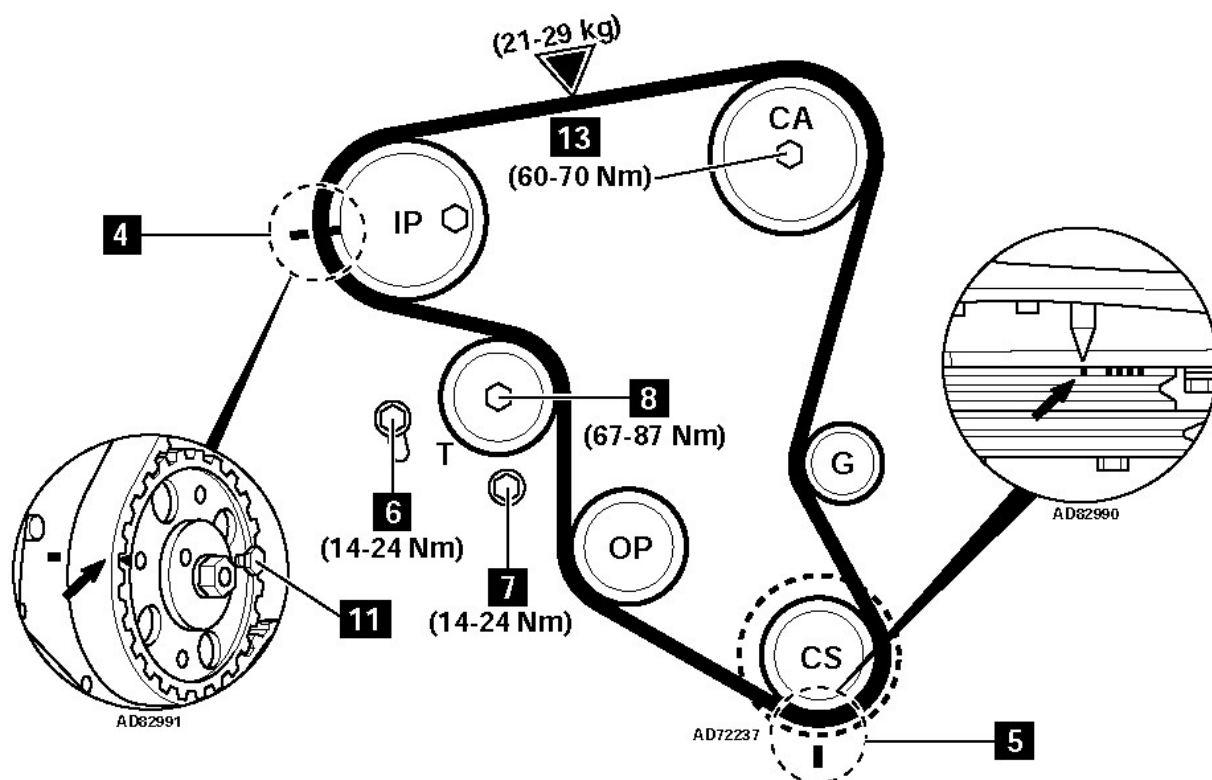
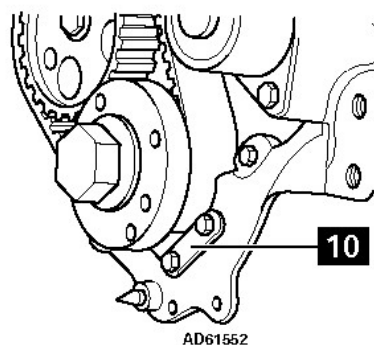
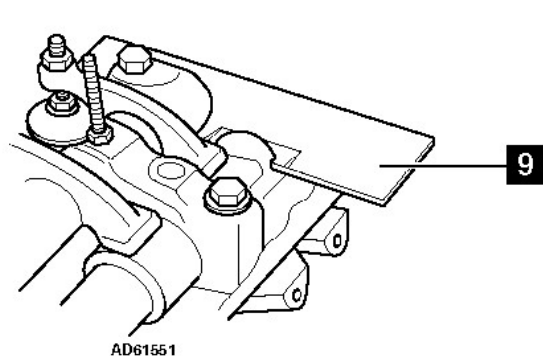
- 1) 29 Nm
- 2) Slacken off
- 3) 1 kg (2,2 lb)

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AD10566

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