

Telephone:
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Notes			Specified value	Measured value
Vehicle identification				
	No. of cylinders	Type	4/OHC	
	Capacity	cc	2283	
Injection system				
	Injection pump assembly	Make	Bosch Kiki	
	Injection pump assembly	Part No.	104749-2562	
	Injection pump assembly	Part No.	104749-2551	
	Pump type		Rotary	
	Injection sequence		1-3-4-2	
	Injection nozzle	Make	Bosch Kiki	
	Nozzle opening pressure - new/used	bar	110-120/100	
Tuning and emissions				
	Plunger travel (pump)	mm ABDC	0,69±0,01	
	Crankshaft position (n = ATDC)	°BTDC	0	
	Adjusting method	Engine/Pump	Pointer/ Dial gauge	
	Dynamic timing	v = BTDC, n = ATDC	v	
	- AVL, Bosch, Souriau, Sun, VLT4139, Hermann	°rpm	12,5/700	
	Idle speed	rpm	700±50	
	Idle speed - alternative	rpm	AC=850±50	
	Rated no load speed	rpm	5000±100	
	Oil temperature	°C	85	
	Idle speed - for smoke test	rpm	650-750	
	Governed speed range - for smoke test	rpm	4900-5100	
	Maximum time at governed speed	secs	1,0	
	Test mode	A/B	B	
	Probe type	1/2	1	
	Conditioning	Accelerations/rpm	3-4/3000	
	Smoke opacity - EU limit	m-1 (%)	2,50 (66)	
Starting and charging				
	Battery	V/RC(Ah)	12/130 (80)	
	Starter motor	Make	Bosch	
	Starter motor	Type	9 000 331 430	
	Maximum cranking amps	A	216-264	
	Alternator	Make	Bosch	
	Alternator	Type	9 120 335 001	
	Alternator output	A/V/rpm	68/14/2500	
	Regulated voltage	V	14,1-14,7	
Glow plugs				
	Glow plug nominal rating	V/A	11/17	
	Glow plug activation time	secs	3	
Service checks and adjustments				
	Valve clearance - INLET	mm	0,25 hot	
	Valve clearance - EXHAUST	mm	0,30 hot	
	Compression pressure	bar	24,5-31,4	
	Oil pressure	bar/rpm	3,0/2000	
	Radiator cap	bar	0,78-0,98	
	Thermostat (primary/secondary) open	°C	82	
	Drive belt tension - alternator/PAS/AC	mm	11-12,5/11-13	
	Drive belt tension - AC	mm	6,5-8,5	
Lubricants and capacities				
	Engine oil grade - cold climate	SAE	5W/30	

	Engine oil grade - moderate climate	SAE	10W/40	
	Engine oil grade - hot climate	SAE	20W/40	
	Engine oil classification	API/ACEA	CE/B2-96	
	Engine oil grade - alternative - moderate climate	SAE	10W/30	
	Engine with filter	litres	7,0	
	Gearbox oil grade	SAE	90W	
	Gearbox 4/5 speed	litres	2,1	
	Differential oil grade - rear	SAE	80W/90	
	Differential rear	litres	1,3	
	Cooling system	litres	14,5	
	Brake fluid	Type	DOT 3	
	Brake fluid	litres	0,6	
	Power steering fluid	Type	Dexron II	
	Power steering fluid	litres	1,0	

Tightening torques

	Cylinder head instructions			
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Cylinder head

		Renew bolts	No	
	Stage 1	Tighten	100 Nm	
	Stage 2	Tighten	90°	
	Stage 3	Tighten	90°	

Other tightening torques

	Main bearings	Renew bolts/nuts	No	
	Main bearings	Stage 1	15 Nm	
	Main bearings	Stage 2	60°-65°	
	Big end bearings	Renew bolts/nuts	No	
	Big end bearings	Stage 1	26-29 Nm	
	Big end bearings	Stage 2	52-58 Nm	
	Oil pump to cylinder block		16-21 Nm	
	Sump bolts		6-9 Nm	
	Sump drain bolt		20-29 Nm	
	Flywheel/driveplate		157-177 Nm	
	Clutch to flywheel		22-29 Nm	
	Crankshaft pulley/damper centre bolt		142-152 Nm	
	Camshaft sprocket/gear		132-142 Nm	
	Camshaft/rocker cover		7-9 Nm	
	Inlet manifold to cylinder head		34-44 Nm	
	Exhaust manifold to cylinder head		16-21 Nm	
	Injector/clamp		60-70 Nm	
	Injector pipe unions		22-25 Nm	
	Injection pump sprocket/gear		59-69 Nm	
	Injection pump flange		20-25 Nm	
	Injection pump mounting		20-25 Nm	
	Injection nozzle to holder		78-98 Nm	
	Glow plugs		20-25 Nm	
	Steering track rod end		29-39 Nm	
	Brake caliper to carrier	Front	22-31 Nm	
	Brake caliper carrier to hub	Front	98-120 Nm	
	Road wheels		98-118 Nm	

Brake disc and drum dimensions

42	Minimum disc thickness - ventilated	Front	20 mm	
	Disc thickness variation	Front	0,030 mm	
	Disc runout	Front	0,07 mm	
	Maximum drum diameter	Rear	255,5 mm	
	Minimum pad thickness	Front	2 mm	

Air conditioning

	Air conditioning refrigerant	Type	R134a	
77	Air conditioning refrigerant quantity	grams		
	Air conditioning oil	Type	KLHOO-PAGSO	
	Air conditioning oil quantity	cmi	250	
	Air conditioning oil viscosity	ISO	46	

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Twin piston caliper = 24 mm

Manufacturer: Nissan

Model: Vanette Cargo (C23H) 2,3D

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Engine code: LD23

Output: 55 (75) 4300

15.05.2007

Tuned for:

Year: 1995-02

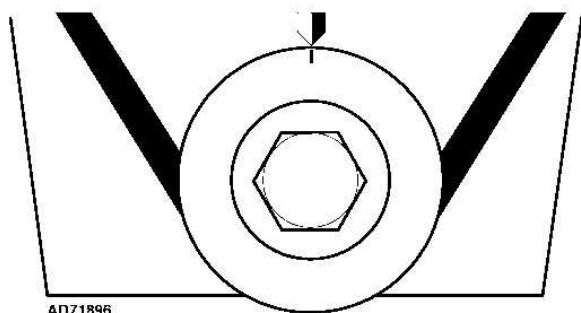
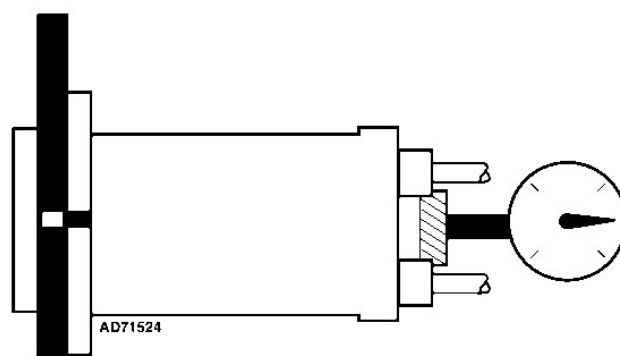
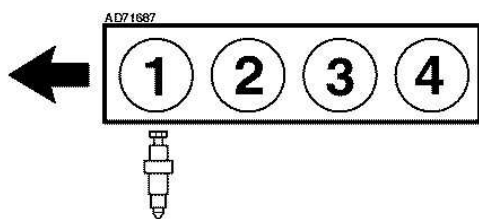
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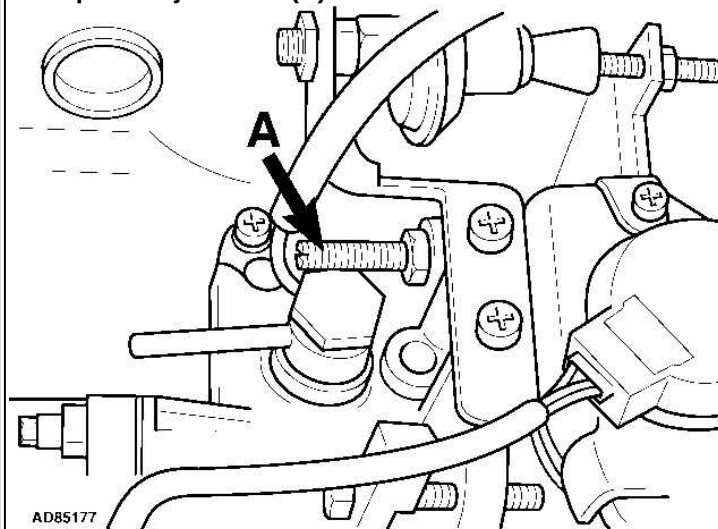
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RHD 1992-06.96 = 600-700 grams
RHD 1992-06.96 with rear AC = 725-825 grams
LHD 1992-06.96 = 625-725 grams
LHD 1992-06.96 with rear AC = 675-775 grams
RHD 07.96-01 = 550-650 grams
RHD 07.96-01 with rear AC = 675-775 grams
LHD 07.96-01 = 575-675 grams
LHD 07.96-01 with rear AC = 625-725 grams

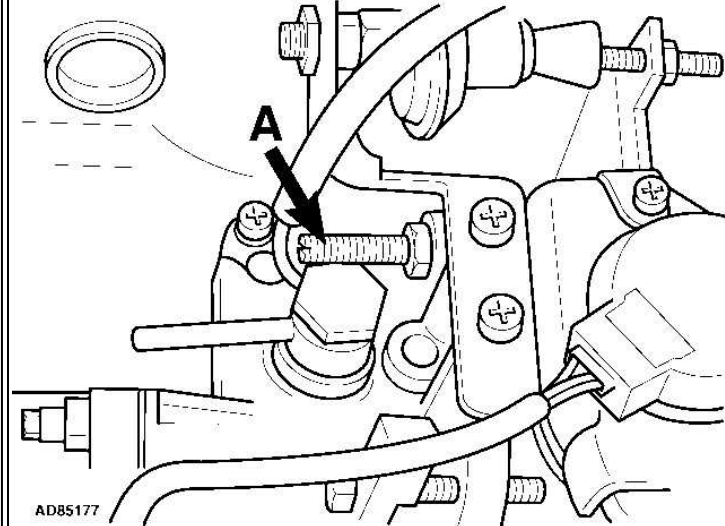
Cylinder layout



Idle speed adjustment (A)



Idle speed adjustment (A)



Tightening sequence

