

Telephone:
Fax:
VAT Registration No.:

Name:		Manufacturer:	Nissan
Address:		Model:	Y61 3.0Di
		Year:	2000-2004
		Registration:	
Tel - Private:		Mileage:	
Tel - Business:		Job number:	

Vehicle identification				
Notes			Specified value	Measured value
	No. of cylinders	Type	4/DOHC	
	Capacity	cc	2953	
	Compression ratio	:1	17,9	
Injection system				
Notes			Specified value	Measured value
	Injection pump assembly	Make	Bosch	
	Injection pump assembly	Type	109342-4032	
	Injection pump assembly	Part No.	16700 VG 100	
	Pump type		Rotary	
	Injection sequence		1-3-4-2	
	Nozzle opening pressure - new/used	bar	195-205/19	
Tuning and emissions				
Notes			Specified value	Measured value
	Adjusting method	Engine/Pump	Pointer/ Special Tool	
	Idle speed	rpm	750±25	
	Rated no load speed	rpm	4300	
	Oil temperature	°C	85	
	Idle speed - for smoke test	rpm	750	
	Governed speed range - for smoke test	rpm	4300	
	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 (%)	3,00 (73)	
	Smoke opacity - homologation value	m-1 (%)	2,50 (66)	
Starting and charging				
Notes			Specified value	Measured value
	Battery	V/RC(Ah)	12	
Service checks and adjustments				
Notes			Specified value	Measured value
	Valve clearance - INLET	mm	0,30±0,04 cold	
	Valve clearance - EXHAUST	mm	0,30±0,04 cold	
	Compression pressure	bar	25-29	
	Oil pressure	bar/rpm	1,5/750	
	Radiator cap	bar	0,59-0,98	

	Thermostat (primary/secondary) open		°C	82	
Lubricants and capacities					
Notes				Specified value	Measured value
	Engine oil grade - cold climate		SAE	5W/30	
	Engine oil grade - moderate climate		SAE	10W/30 Semi-synthetic	
	Engine oil grade - hot climate		SAE	20W/50	
	Engine oil classification		API/ACEA	CF/B3-98	
	Engine with filter		litres	5,7	
73	Gearbox oil grade		SAE	75W/90	
68	Gearbox 4/5 speed		litres	5,1	
	Automatic transmission (drain & refill)		litres	11,8	
	Differential oil grade - front		SAE	80W/90	
	Differential front/AT		litres	5,4	
	Differential oil grade - rear		SAE	80W/90	
3	Differential rear		litres	2,4	
	Cooling system		litres	12,7	
	Brake fluid		Type	DOT 3	
	Power steering fluid		Type	Dexron II	
	Power steering fluid		litres	0,9	
Tightening torques					
Notes				Specified value	Measured value
	Cylinder head instructions				
Cylinder head					
			Renew bolts	Yes	
	Stage 1		Tighten	20-25 Nm	
	Stage 2		Tighten	40-49 Nm	
	Stage 3		Slacken off	360°	
	Stage 4		Tighten	98-102 Nm	
	Stage 5		Individually slacken off	360°	
	Stage 6		Tighten	40-44 Nm	
	Stage 7		Tighten	90°-95°	
	Stage 8		Tighten	90°-95°	
Other tightening torques					
	Main bearings		Renew bolts/nuts	No	
67	Main bearings		Stage 1		
	Big end bearings		Renew bolts/nuts	No	
	Big end bearings		Stage 1	39-41 Nm	
	Big end bearings		Stage 2	79-83 Nm	
	Sump bolts			8,2-9,5 Nm	
	Sump drain bolt			54-58 Nm	
	Flywheel/driveplate			167-186 Nm	
	Clutch to flywheel			22-29 Nm	
	Crankshaft pulley/damper			373-402 Nm	
	Camshaft sprocket/gear			61-65 Nm	
	Camshaft carrier/cap			20-23 Nm	
	Camshaft/rocker cover			10 Nm	
	Inlet manifold to cylinder head			25-28 Nm	
	Exhaust manifold to cylinder head			40-49 Nm	
	Injector/clamp			22-26 Nm	
	Injector pipe unions			26-29 Nm	
	Injection pump sprocket/gear			36-40 Nm	
	Injection pump mounting			25-28 Nm	
	Glow plugs			15-19 Nm	
	Engine oil pressure switch			13-17 Nm	
	Steering track rod end			59-74 Nm	
	Brake caliper to carrier		Front	39-52 Nm	
	Brake caliper carrier to hub		Front	109-146 Nm	
	Brake caliper to carrier		Rear	22-31 Nm	

	Brake caliper carrier to hub	Rear	72-97 Nm	
	ABS sensor	Front	18-24 Nm	
	Road wheels		118-147 Nm	
Brake disc and drum dimensions				
Notes			Specified value	Measured value
	Minimum disc thickness - ventilated	Front	30 mm	
	Minimum disc thickness	Rear	16 mm	
	Disc thickness variation	Front	0,015 mm	
	Disc thickness variation	Rear	0,015 mm	
	Disc runout	Front	0,10 mm	
	Disc runout	Rear	0,10 mm	
	Minimum pad thickness	Front	2 mm	
	Minimum pad thickness	Rear	2 mm	
	Handbrake travel	No. of notches	7-9	
Air conditioning				
Notes			Specified value	Measured value
	Air conditioning refrigerant	Type	R134a	
	Air conditioning refrigerant quantity	grams	750-850	
	Air conditioning oil	Type	KLH00-PAG50	
	Air conditioning oil quantity	cm ³	300	

Autodata Note 73

Transfer box = 75W/90

Autodata Note 68

Transfer box = 1,8-1,9 litres

Autodata Note 3

LSD = 3,0

Autodata Note 67

1-1011-20

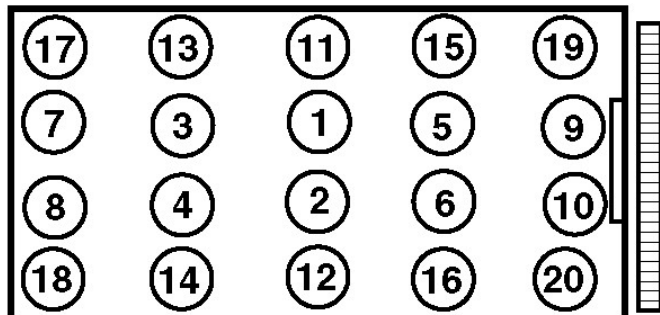
1) 20 Nm1) 10 Nm

2) 98 Nm2) 20 Nm

3) 167-176 Nm3) 40-46 Nm

Fig. 21504

21504



AD21504

Tightening sequence

