1982 Datsun/Nissan Diesel 6 Tune-Up

TUNE-UP

Maxima

ENGINE IDENTIFICATION

Engine number is stamped into right side of cylinder block near the dipstick. First 4 digits indicate engine code.

ENGINE CODE

Application	Code
All Models	LD28

ENGINE COMPRESSION

Warm engine to normal operating temperature. Stop engine. Remove spill tube assembly, injection tubes on nozzle side and nozzle assemblies taking care to remove nozzle washer with tweezers. Install compression gauge adapter on cylinder head. Close bleeder screw on compression gauge. Crank engine and note compression reading as quickly as possible.

COMPRESSION SPECIFICATIONS

Min. Compression Pressure	356 psi (25 kg/cm²)
Max. Variation Between Cylinders	71 psi (5 kg/cm²)

VALVE CLEARANCE

1) Adjust valves with engine off and at normal operating temperature. Remove rocker cover. Rotate crankshaft until No. 1 cam lobe points up. Adjust intake valves on cylinder No. 2, 4, and 6, and exhaust valves on cylinder No. 1, 4, and 5.

2) Rotate crankshaft so that No. 1 cam lobe points down. Adjust intake valves on cylinder No. 1, 3 and 5, and exhaust valves on cylinder No. 2, 3 and 6. Install rocker cover.

VALVE CLEARANCE SPECIFICATIONS

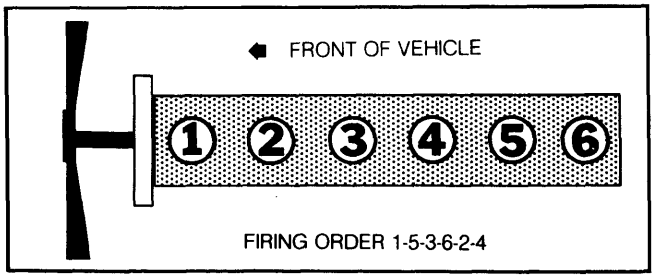
Application	[1] Clearance In. (mm)
Intake	.010 (.25)
Exhaust	.012 (.30)

[1] — Adjust valves with engine hot.

VALVE ARRANGEMENT

E-I-I-E-I-E-E-I-E-I-I-E (Front to rear)

Fig. 1: Diesel Firing Order Illustration



GLOW PLUGS

GLOW PLUG TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
All Models	14-18 (20-25)

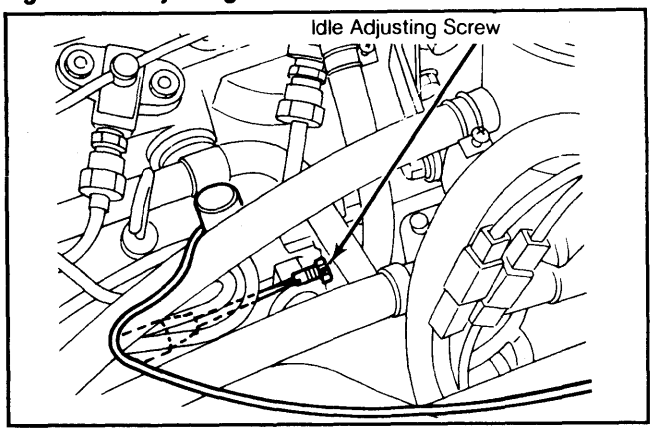
IDLE SPEED ADJUSTMENT

1) With engine at normal operating temperature and all electrical accessories off, attach tachometer. Start engine and run at 2000 RPM for 2 minutes. Return engine to idle for 1 minute. Check that idle speed is to specification (Auto. Trans. in "D").

2) If adjustment is required, loosen idle adjusting screw lock nut on idle adjusting screw. Turn screw until proper idle RPM is obtained. Tighten lock nut. *See Fig. 2.*

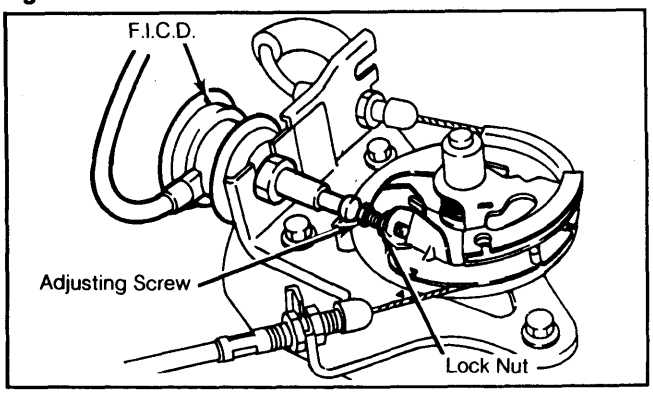
3) With engine idling and air conditioning turned on (if so equipped), set fast idle speed. Locate Fast Idle Control Device (F.I.C.D.) diaphragm. Turn adjusting screw on accelerator drum until fast idle speed is to specification. *See Fig. 3.*

Fig. 2: Idle Adjusting Screw Location



Tighten lock nut after adjusting.

Fig. 3: Fast Idle Control Device



Set fast idle with A/C on (if equipped).

IDLE SPEED SPECIFICATIONS

Application	Idle RPM	Fast Idle RPM
All Models	600-750	800

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GENERAL SERVICING

FUEL SYSTEMS

FUEL INJECTION

All models use Bosch mechanical pump-type diesel fuel injection.

ELECTRICAL

BATTERY

BATTERY SPECIFICATIONS

Application	Amp. Hr. Rating
All Models	80

STARTER

All models are equipped with Hitachi starters.

STARTER SPECIFICATIONS

Application	Volts	Amps	Test RPM
All Models	11	100	3900

ALTERNATOR

All models are equipped with Hitachi alternators using an integral IC voltage regulator.

ALTERNATOR SPECIFICATIONS

Application	Rated Amp. Output
All Models	60

ALTERNATOR REGULATOR

All models are equipped with Hitachi IC alternator regulators.

REGULATOR OPERATING VOLTAGE@68°F (20°C)

Application	Voltage
All Models	14.5-15.0

SERVICE SPECIFICATIONS

BELT ADJUSTMENT

Application	[1] Deflection In. (mm)
Alternator	.4 (10)
Air Conditioning Compressor	.4 (10)
Power Steering Pump	.3 (8)

[1] — Deflection is with 22 lbs. (10 kg) pressure applied midway on belt run.

REPLACEMENT INTERVALS

Component	Miles
Oil Filter	6000
Air Filter	30,000
Fuel Filter	30,000
Spark Plugs	30,000

FLUID CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	6.5 qts. (6.2L)
Cooling System	11.0 qts. (10.4L)
Auto. Trans. (Dexron)	5.9 qts. (5.6L)
Differential (API GL-5/SAE 80-90)	2.1 pts. (1.0L)
Fuel Tank	
Sedan	16.4 gals. (62.0L)
Station Wagon	15.9 gals. (60.2L)