

1-36 1982 Datsun/Nissan Diesel 4 Tune-Up

TUNE-UP

Pickup

ENGINE IDENTIFICATION

Engine serial number is stamped into right side of block. Serial number is preceded by engine model number.

ENGINE CODE

Application	Code
All Models	SD22

ENGINE COMPRESSION

1) Check compression pressure with engine at normal operating temperature. Remove injection tube on nozzle side, spill tube assembly and nozzle assemblies with washers.

2) Place a compression gauge adapter (ED19600000) in No. 1 cylinder. Hand tighten bleeder screw on gauge. Crank engine at least 6 "puffs" and check compression.

3) Remove compression gauge adapter and repeat step 2) for remaining cylinders. Install nozzle assemblies with washers, spill tube assembly, and injection tube. Bleed fuel system. See *Fuel System Bleeding*.

COMPRESSION SPECIFICATIONS

Min. Compression Pressure	356 psi (25 kg/cm ²)
Max. Variation Between Cylinders ...	43 psi (3 kg/cm ²)

VALVE CLEARANCE

1) Warm engine to normal operating temperature. Turn engine off. Remove valve cover. Rotate crankshaft to bring No. 1 piston to TDC on compression stroke. Adjust intake valves on cylinder No. 1 and 2, and exhaust valves on cylinder No. 1 and 3.

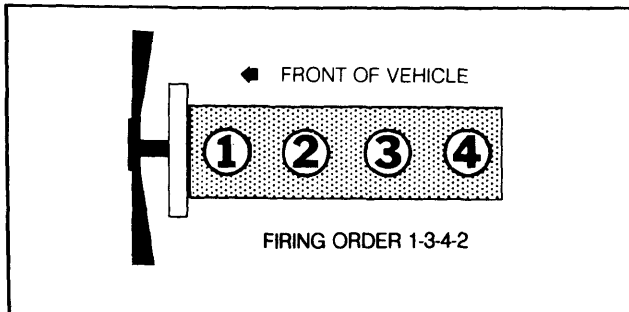
2) Rotate crankshaft to bring No. 4 piston to TDC on compression stroke. Adjust intake valves on cylinder No. 3 and 4, and exhaust valves on cylinder No. 2 and 4.

VALVE CLEARANCE SPECIFICATIONS

Application	1 Clearance In. (mm)
Intake & Exhaust014 (.35)

1 — Adjust valves with engine hot.

Fig. 1: Firing Order



VALVE ARRANGEMENT

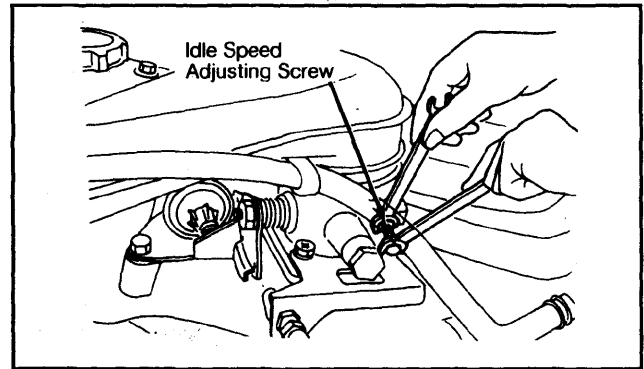
E-I-I-E-E-I-I-E (Front to rear)

IDLE SPEED ADJUSTMENT

1) With transmission in neutral, parking brake applied and all wheels blocked, warm up engine to normal operating temperature. Connect a tachometer to engine.

2) Push in throttle control knob under dash panel. Loosen idle adjusting screw lock nut. Start engine and adjust idle by turning idle adjusting screw. See Fig. 2. Tighten idle adjusting screw lock nut.

Fig. 2: Idle Speed Adjustment



IDLE SPEED SPECIFICATIONS

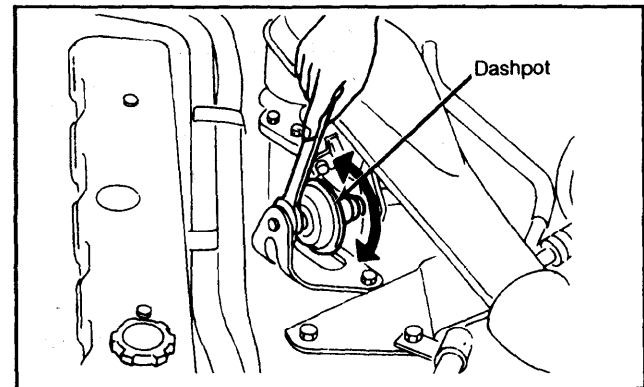
Application	Idle RPM
All Models	650-800

DASHPOT ADJUSTMENT

1) Warm up engine to normal operating temperature. Connect tachometer to engine.

2) Hold throttle lever to maintain specified adjustment speed. Adjust dashpot so that control lever tip contacts dashpot tip. See Fig. 3. Tighten dashpot lock nut.

Fig. 3: Dashpot Adjustment



DASHPOT ADJUSTMENT SPECIFICATIONS

Application	RPM
All Models	1280-1350

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TUNE-UP (Cont.)

FUEL SYSTEM BLEEDING

Bleed fuel system by removing primary pump cap and loosening air vent screw. Turn priming pump counterclockwise and move up and down until no air comes out air vent screw. Tighten screw. Push and turn priming pump clockwise. Install cap. Wipe off excess fuel.

EXHAUST EMISSION SYSTEMS

See EXHAUST EMISSION SYSTEMS section.

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 a Hitachi gear reduction, solenoid actuated starter using an overrunning clutch.

STARTER SPECIFICATIONS

Application	Volts	Amps	Test RPM
All Models	12	150	3500

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 use a Hitachi IC voltage regulator that is integral with alternator.

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

Application	Voltage
All Models	14.4-15.0

SERVICE SPECIFICATIONS

BELT ADJUSTMENT

Application	¹ Deflection In. (mm)
All Belts4 (10)

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

REPLACEMENT INTERVALS

Component	Miles
Engine Oil	3000
Oil Filter	6000
Air Filter	30,000
Fuel Filter	15,000

FLUID CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	6.4 qts. (6.0L)
Cooling System (Includes Heater)	10.5 qts. (9.9L)
Man. Trans. (SAE 80W-90/API GL-4)	4.3 pts. (2.0L)
Rear Axle (SAE 80W-90/API GL-5)	2.6 pts. (1.2L)
Fuel Tank	
Shortbed ¹	13.3 gals. (50.0L)
Longbed	16.9 gals. (64.0L)

¹ — Includes King Cab model.