

TUNE-UP

810 Diesel

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

COMPRESSION PRESSURE

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 Pressure Specifications

Application	Pressure psi (kg/cm ²)
Normal (New Engine)	455 (32)
Minimum	356 (25)
Maximum Variation	71 (5)

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	Intake In. (mm)	Exhaust In. (mm)
All Models010 (.25)	.012 (.30)

VALVE ARRANGEMENT

E-I-I-E-I-E-E-I-E-I-I-E

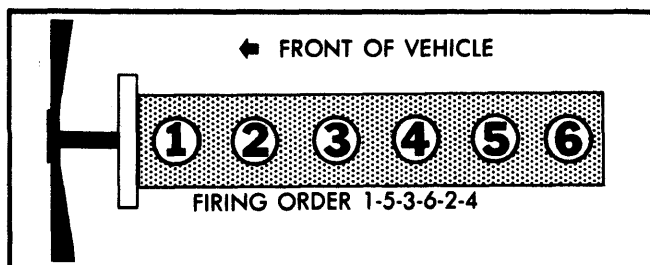


Fig. 1 Diesel Firing Order Illustration

GLOW PLUGS

Glow Plug Torque Specifications

All Models 20-25 ft. lbs. (27-33 N·m)

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 high 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.

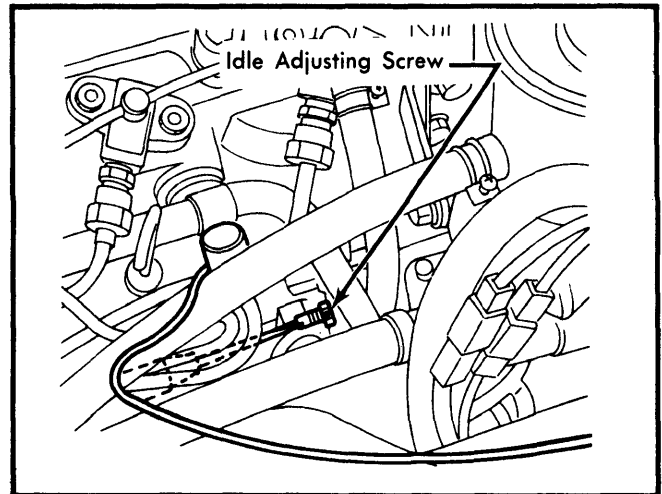


Fig. 2 Idle Adjusting Screw Location

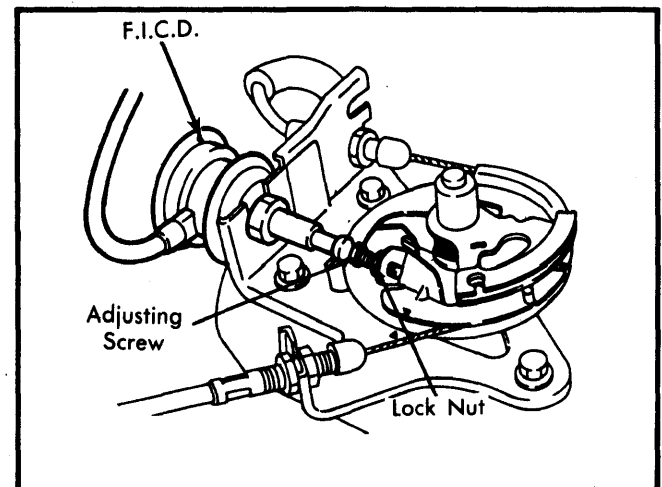


Fig. 3 Fast Idle Control Device

Idle Speed Specifications

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

1981 Datsun Diesel 6 Tune-Up

GENERAL SERVICING

FUEL SYSTEMS

FUEL INJECTION

All models use Bosch mechanical diesel fuel injection.

ELECTRICAL

BATTERY

Battery Location — Battery is located in right front engine compartment.

Application	Amp. Hr. Rating
All Models	70

STARTER

All models are equipped with Hitachi starters.

Starter Specifications

Application	Volts	Amps	Test RPM
All Models	11	150	3500

ALTERNATOR

All models are equipped with Hitachi alternators.

Application	Rated Amp. Output
All Models	60

ALTERNATOR REGULATOR

All models are equipped with Hitachi transistorized alternator regulators with an operating voltage of 14.5-15.0 volts at 68° F (20° C).

BELT ADJUSTMENT

Application	① Deflection
Alternator	$\frac{5}{16}$ - $\frac{1}{2}$ " (8-12 mm)
Power Steering	$\frac{9}{32}$ - $\frac{3}{8}$ " (7-9 mm)

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

FILTERS

Filter	Service Interval (Miles)
Air Filter	Replace every 30,000
Fuel Filter	Replace every 30,000
Oil Filter	Replace every 6000

CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	6.3 qts
Cooling System	11.6 qts.
Auto. Trans. (Dexron)	5.9 qts.
Differential (API GL-5/SAE 80-90)	2.1 pts.
Fuel Tank	
Sedan	16.4 gals.
Station Wagon	15.9 gals.