

1982 Mazda Diesel 4 Tune-Up

TUNE-UP

B2200 Pickup

ENGINE IDENTIFICATION

Engine number is stamped into the front left side of the engine block.

ENGINE COMPRESSION

1) Run engine until it reaches normal operating temperature. Remove the injection nozzles and holders from all 4 cylinders. Attach an adapter fitting (49 1456 010) to nozzle opening on 1 cylinder. Connect a compression gauge capable of reading more than 427 psi (30 kg/cm²) to adapter.

2) Disconnect wire from fuel cut solenoid. Crank engine until maximum compression pressure is reached and note reading. Repeat procedure for remaining cylinders. Reinstall injection nozzles and fuel cut solenoid wire after completing compression test.

COMPRESSION SPECIFICATIONS

Normal Compression Pressure	....	427 psi (30 kg/cm ²)
Min. Compression Pressure	.....	384 psi (27 kg/cm ²)
Max. Variation	.....	42.7 psi (3 kg/cm ²)

VALVE CLEARANCE

Start and run engine until it reaches normal operating temperature. Remove valve cover. Set No.1 cylinder at TDC of compression stroke. Check clearance of intake valves on cylinders No. 1 and 2 and of exhaust valves on cylinders No. 1 and 3. Turn the crankshaft 1 full turn so that cylinder No. 4 is at TDC of compression stroke. Check clearance of intake valves on cylinders No. 3 and 4 and of exhaust valves on cylinders 2 and 4.

VALVE CLEARANCE SPECIFICATIONS

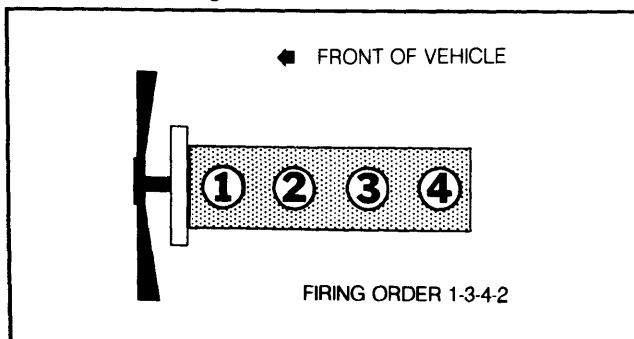
Application	Clearance In. (mm)
Intake & Exhaust	..... .012 (.30)

VALVE ARRANGEMENT

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

GLOW PLUGS

Fig. 1: B2200 Firing Order



GLOW PLUG TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
All Models	..... 7-11 (10-15)

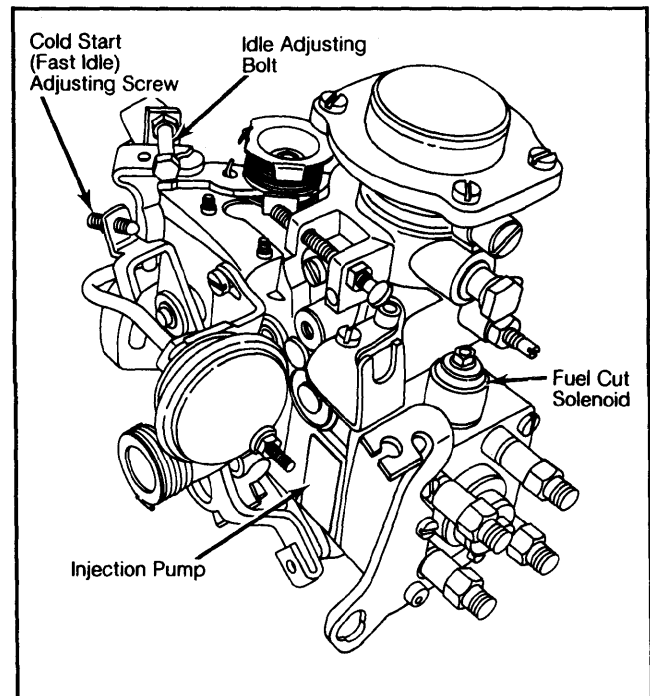
IDLE SPEED

Warm engine to normal operating temperature. Connect tachometer. Check idle speed. To adjust idle, ensure that there is some free play in accelerator cable. Loosen lock nut on idle adjusting bolt. Adjust idle speed, accelerate engine 2 or 3 times and return to idle. Recheck idle speed. When idle is correct, tighten lock nut on adjusting bolt.

IDLE SPEED

Application	RPM
All Models	..... 700

Fig. 2: B2200 Diesel Fuel Injection Pump



COLD START SPEED

Pull cold start knob on dashboard to fully extended position. Connect a tachometer to engine. Start engine and note engine RPM. Adjust speed by turning cold start adjusting screw.

COLD START SPEED

Application	RPM
All Models 1150-1250

EXHAUST EMISSION SYSTEMS

See EXHAUST EMISSION SYSTEMS section.

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GENERAL SERVICING

FUEL SYSTEMS

FUEL INJECTION

All models use a Diesel Kiki VE type mechanical fuel injection pump.

ELECTRICAL

BATTERY

BATTERY SPECIFICATIONS

Application	Amp. Hr. Rating
All Models	80

STARTER

All models use a Mitsubishi starter.

STARTER SPECIFICATIONS

Application	Volts	Amps	Test RPM
All Models	11.0	180	3800

ALTERNATORS

All models use a Mitsubishi alternator.

ALTERNATOR SPECIFICATIONS

Application	Rated Amp. Output
All Models	28

ALTERNATOR REGULATOR

All models are equipped with a Mitsubishi electronic voltage regulator.

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

Application	Voltage
All Models	13.5

SERVICE SPECIFICATIONS

BELT ADJUSTMENT

Application	¹ Deflection In. (mm)
Fan Belt .....	.3-.4 (9-11)

¹ — With moderate pressure applied midway between pulleys on longest belt run.

REPLACEMENT INTERVALS

Component	Miles
Oil Filter	5000
Air Filter	30,000
Fuel Filter	30,000

FLUID CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	5.3 qts. (5.0L)
Cooling System (Includes Heater)	10.0 qts. (9.5L)
Man. Trans. (SAE 90)	
4-Speed	1.5 qts. (1.4L)
5-Speed	1.8 qts. (1.7L)
Rear Axle (SAE 90)	1.4 qts. (1.3L)
Fuel Tank	
Short Bed	14.8 gals. (56.0L)
Long Bed	17.4 gals. (65.9L)