

# 1982 LUV Diesel 4 Tune-Up

## TUNE-UP

### Pickup

### ENGINE IDENTIFICATION

First four digits of engine identification code are used to identify engine models. Code is stamped on right side of cylinder block.

#### ENGINE CODE

Application	Code
All Models .....	C223

### ENGINE COMPRESSION

Start and run engine until normal operating temperature is obtained. Remove sensing resistor, glow plug connectors, glow plugs and fuel cut solenoid connector. Disconnect fusible link wire of "Quick Start" system at harness connector. Install compression gauge adapter (J-29762) and compression gauge. Operate starter and read compression at 300 RPM.

#### COMPRESSION SPECIFICATIONS

Compression Ratio .....	21:1
Compression Pressure	
Normal (New Engine) .....	441psi (31 kg/cm <sup>2</sup> )
Minimum .....	398 psi (28 kg/cm <sup>2</sup> )

### VALVE CLEARANCE

**CAUTION:** Before adjusting valves, check rocker arm shaft bracket bolts for looseness and tighten as necessary.

1) Rotate crankshaft until No. 1 piston is at TDC of compression stroke. Measure valve clearance between adjusting screw and valve stem end cap. With No. 1 piston at TDC, adjust intake valves on cylinders No. 1 and 2, and exhaust valves on cylinders No. 1 and 3.

2) Rotate crankshaft 1 complete revolution until No. 4 piston is at TDC of compression stroke. Adjust intake valves on cylinders No. 3 and 4, and exhaust valves on cylinders No. 2 and 4.

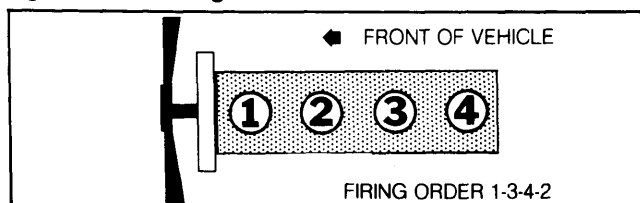
#### VALVE CLEARANCE SPECIFICATIONS

Application	Clearance In. (mm)
Intake & Exhaust (Cold) .....	.016 (.40)
Intake & Exhaust (Hot) .....	.015 (.37)

### VALVE ARRANGEMENT

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

Fig. 1: Diesel Firing Order Illustration



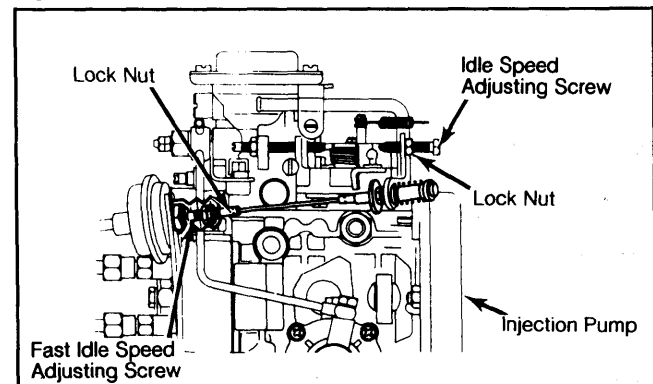
### IDLE SPEED

Set parking brake and block drive wheels. Connect tachometer and warm engine to normal operating temperature. Check that idle speed is correct with accelerator lever touching idle adjusting screw. To adjust idle speed, loosen lock nut and turn adjusting screw until idle speed is set. Tighten lock nut.

#### IDLE SPEED SPECIFICATIONS

Application	RPM
All Models .....	700-800

Fig. 2: Idle and Fast Idle Speed Adjustment



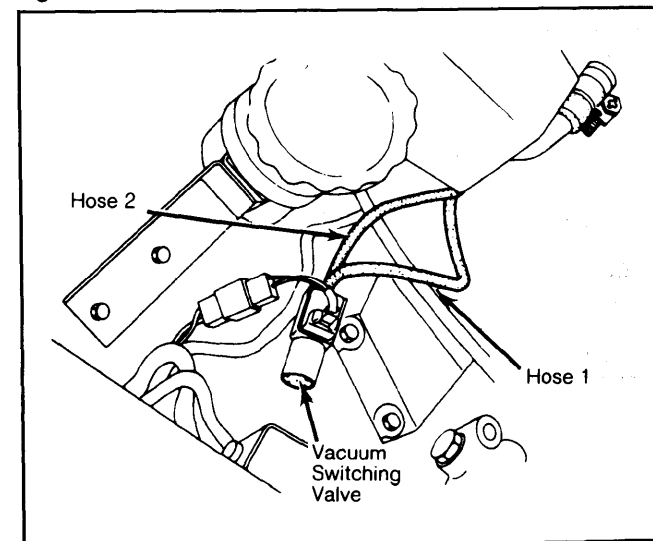
### FAST IDLE SPEED

Start engine and run until it reaches normal operating temperature. Connect tachometer. Disconnect hoses 1 and 2 from vacuum switching valve and connect together with piping. See Fig. 3. Check fast idle speed. If fast idle speed is incorrect, loosen adjusting lock nut and adjust idle speed by moving adjusting nut. See Fig. 2.

#### FAST IDLE SPEED

Application	RPM
All Models .....	900-950

Fig. 3: Fast Idle Vacuum Hose Removal



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## GENERAL SERVICING

### FUEL SYSTEMS

#### FUEL INJECTION

All models use Bosch diesel fuel injection.

### ELECTRICAL

#### BATTERY

##### BATTERY SPECIFICATIONS

Application	Amp. Hr. Rating
All Models .....	80

#### STARTER

All models use Hitachi starters.

##### STARTER SPECIFICATIONS

Application	Volts	Amps.	Test RPM
All Models .....	11.5	120	4000

#### ALTERNATOR

All models use Hitachi alternators.

##### ALTERNATOR SPECIFICATIONS

Application	Rated Amp. Output
All Models .....	50

#### ALTERNATOR REGULATOR

All models use Hitachi alternator regulators.

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

Application	Voltage
All Models .....	14.0-14.6

## SERVICE SPECIFICATIONS

##### BELT ADJUSTMENT

Application	<sup>1</sup> Deflection In. (mm)
All Belts .....	0.4 (10)

<sup>1</sup> — Measured between longest span and depressed with firm thumb pressure.

##### REPLACEMENT INTERVALS

Component	Miles
Oil Filter .....	7500
Air Filter .....	30,000
Fuel Filter .....	30,000

##### FLUID CAPACITIES

Application	Quantity
Crankcase (Includes Filter) .....	5.5 qts. (5.2L)
Cooling System .....	9.2 qts. (8.7L)
Man. Trans. (SAE 30)	
4-Speed .....	5.3 pts. (2.5L)
5-Speed .....	3.3 pts. (1.6L)
Auto. Trans. (Dexron II) .....	10.0 pts. (4.7L)
Transfer Case (SAE 30) .....	5.3 pts. (2.5L)
Rear Differential (SAE 90) .....	2.7 pts. (1.3L)
Front Differential (SAE 90) .....	1.7 pts. (0.8L)
Fuel Tank	
Short Wheelbase .....	13.2 gals. (50.0L)
Long Wheelbase .....	19.1 gals. (72.4L)