

1980 Peugeot Diesel 4 Tune-Up

TUNE-UP

504 Diesel
505 Diesel

ENGINE IDENTIFICATION

Engine number is stamped on left side of block just below cylinder head. The engine number is followed by the VIN number. Numbers for the 1980 XD2 engines begin at 1080373 for 505 models, and 3375001 for 504 models.

COMPRESSION PRESSURE

With engine at normal operating temperature, disconnect injection lines, then remove return lines and nozzle holders. Lock pump stop control in off position. Connect pressure gauge and crank for 4 seconds at 300 RPM. Compression pressure should be as follows:

Compression Pressure @300 RPM

Application	Pressure
All Models	435-580 psi (30.6-40.7 kg/cm ²)

VALVE CLEARANCE

Valves must be set with engine cold. To adjust valves, rotate crankshaft until valve listed in first column of table is fully open, then adjust valves listed in second column of table. Note that valves (and cylinders) are numbered from REAR to FRONT.

Valve Adjustment Sequence

Valve Open	Valves to Adjust
No. 1 Exh.	No. 3 Int. & No. 4 Exh.
No. 3 Exh.	No. 4 Int. & No. 2 Exh.
No. 4 Exh.	No. 2 Int. & No. 1 Exh.
No. 2 Exh.	No. 1 Int. & No. 3 Exh.

Valve Clearance

Application	Clearance
Intake006-.008" (.15-.20 mm)
Exhaust010-.012" (.25-.30 mm)

VALVE ARRANGEMENT

All Models - I-E-E-I-I-E-E-I (rear to front)

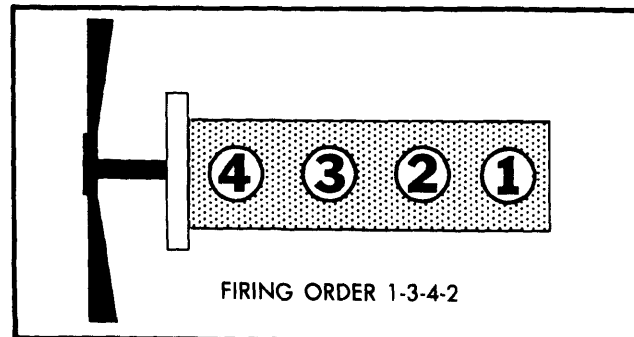


Fig. 1 504 & 505 Diesel Firing Order

GLOW PLUGS

Torque 33 ft. lbs. (4.5 mkg)

SLOW IDLE RPM

With engine at normal operating temperature, adjust idle speed using idle speed screw.

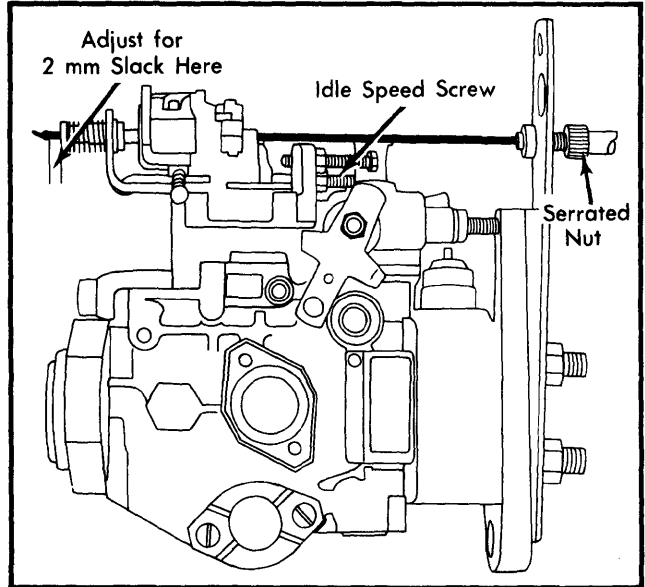


Fig. 2 Diesel Idle Adjustment Locations

FAST IDLE RPM

Adjust cable tension so cable end has .08" (2 mm) free play. Start engine and pull spool to maximum travel. Adjust engine RPM by rotating serrated nut where cable passes through mounting bracket. Recheck free play in cable.

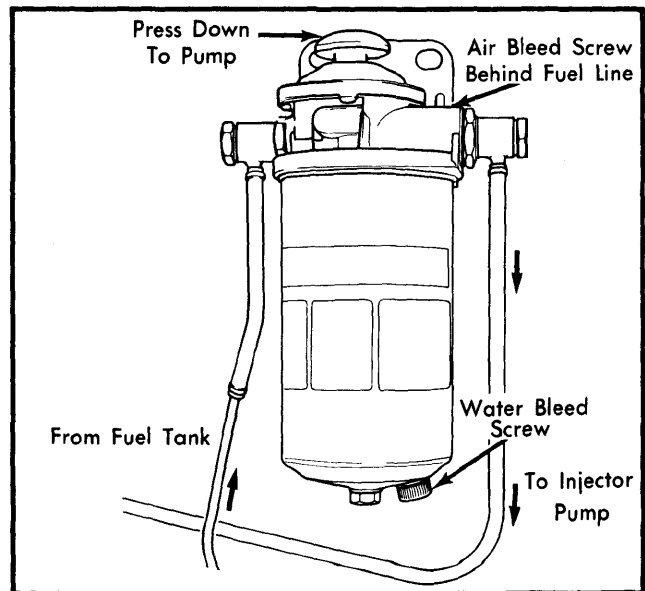


Fig. 3 Fuel System Bleeding Locations

TUNE-UP (Cont.)

Application	Slow & Fast Idle RPM	
	Slow RPM	Fast RPM
All Models		
Without A/C	780-830	1200-1300
With A/C	830-860	1200-1300

screw and loosen air bleed screw. Pump button until resistance is felt, then tighten air bleed screw.

BLEEDING & PRIMING FUEL SYSTEM

1) Loosen bleed screw at bottom of filter bowl. Pump lever or button on top of filter to force out water. Retighten bleed

2) If vehicle ran out of fuel and injector pump is dry, continue to pump fuel filter button approximately 40 times. Turn key on and activate starter for 15 seconds, then press accelerator until engine starts.

GENERAL SERVICING

FUEL SYSTEMS

FUEL INJECTION

All models use Bosch Diesel Injection Systems with the VE4/9 F2250 R50 pump.

Other Data & Specifications — See *Tune-Up and Bosch Diesel Fuel Injection* in FUEL SYSTEMS Section.

ELECTRICAL

BATTERY

Application	Amp. Hour Capacity
All Models	90

Battery Location — In engine compartment.

STARTER

All Models Bosch, Ducellier or Paris-Rhone

ALTERNATOR

All models are equipped with a Paris Rhone alternator rated at 75 amperes.

ALTERNATOR REGULATOR

All models are equipped with a Paris Rhone integral alternator regulator.

FILTERS

Filter	Service Interval (Miles)
Air Filter	Replace every 12,500
Oil Filter	Replace every 3000
Fuel Filter	Replace every 12,500

BELT ADJUSTMENT

Tighten belts until deflection on longest span is approximately $\frac{1}{4}$ - $\frac{3}{8}$ " when depressed with thumb pressure.

CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	5.3 qts.
Cooling System	10.5 qts.
Man. Trans. (SAE 10W-40)	2.4 pts.
Auto. Trans. (Dexron)	5.4 qts.
Rear Axle (SAE 80)	3.3 pts.
Fuel Tank	18.0 gals.