

1982 Peugeot Diesel 4 Tune-Up

TUNE-UP

504, 505, 505 Turbo, 604 Turbo

ENGINE IDENTIFICATION

Engine number is stamped on left side of block just below cylinder head and is followed by VIN number.

ENGINE CODE

Application	Code
Diesel	XD2C
Turbo Diesel	XD2S

ENGINE COMPRESSION

With engine at normal operating temperature, disconnect injection lines. Remove return lines and nozzle holders. Lock pump stop control in off position. Connect pressure gauge and crank for 4 seconds at 200 RPM. Compression pressure should be as follows:

COMPRESSION SPECIFICATIONS

Compression Ratio	
Diesel	23:1
Turbo Diesel	21:1
Compression Pressure	Min. 261 psi (18.3 kg/cm ²)
Max. Variation Between Cylinders	18%

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

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

VALVE CLEARANCE SPECIFICATIONS

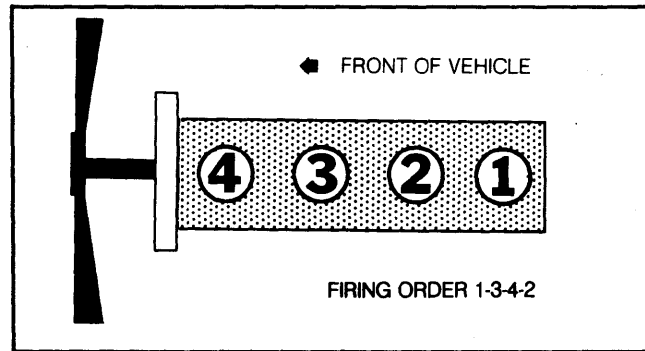
Application	Intake In. (mm)	Exhaust In. (mm)
Diesel ¹010 (.25)	.010 (.25)
Turbo Diesel ¹006 (.15)	.010 (.25)

¹ - Set valves with engine cold.

VALVE ARRANGEMENT

All Models - I-E-E-I-I-E-E-I

Fig. 1: Diesel Firing Order Illustration



GLOW PLUGS

All models use Bosch glow plugs.

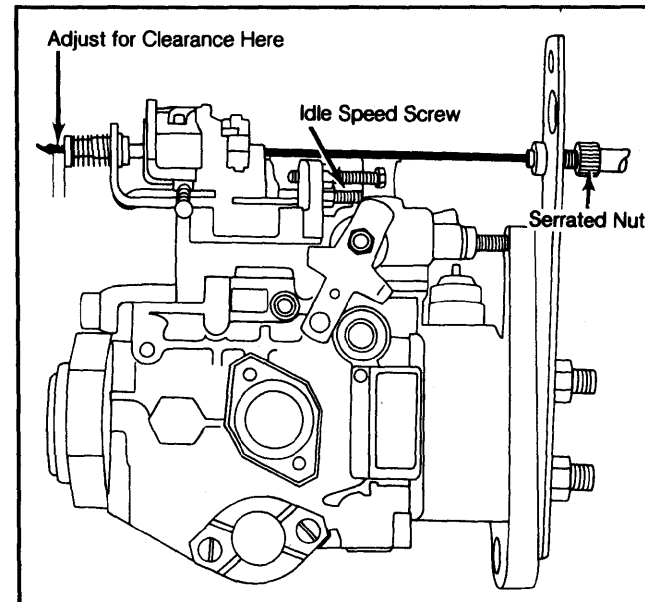
GLOW PLUG SPECIFICATIONS

Application	Bosch Part No.	Ft. Lbs. (N.m)
All Models	1018	33 (45)

IDLE SPEED ADJUSTMENT

1) Idle is adjusted on a warm engine after the engagement of the clutch fan. Check that accelerated idle stop is not in contact with throttle lever and that accelerator cable is released.

Fig. 2: Diesel Idle Adjustment Locations



Adjustments are made after engine reaches operating temperatures.

2) Adjust the set screw to obtain proper RPM. See Fig. 2. Turn fast idle cable sleeve nut to obtain a clearance of .04" (1 mm) between fast idle cable end and fast idle stop. Start engine and warm to operating temperature. Compress the fast idle stop and check idle

TUNE-UP (Cont.)

speed. Engine speed should be 1200-1400 RPM. Adjust if necessary. Adjust cable and clearance.

IDLE SPEED SPECIFICATIONS

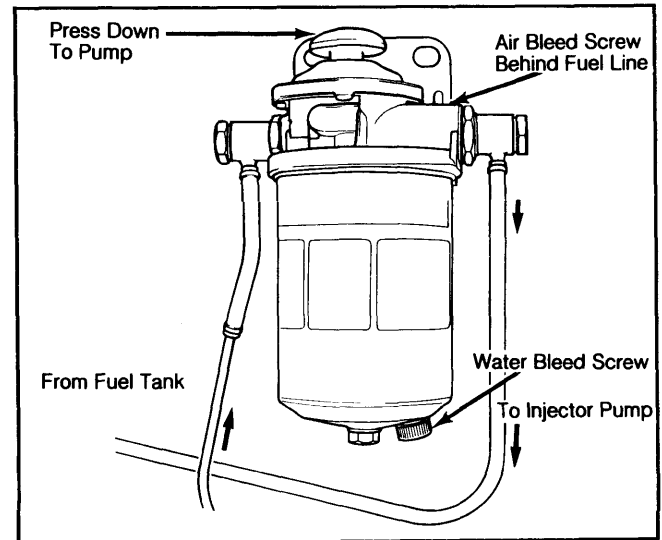
Application	Idle RPM
504, 505 Diesel	
With A/C	830-860
Without A/C	730-830
505, 604	
Turbo Diesel	
With A/C	830-860
Without A/C	780-840

FUEL SYSTEM BLEEDING

1) Loosen bleed screw at bottom of filter bowl. Pump lever or button on top of filter to force out water. Retighten bleed screw and loosen air bleed screw. Pump button until resistance is felt, then tighten air bleed screw.

2) Bleed filter every 3000 miles, or more often if necessary. If vehicle has run 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.

Fig. 3: Peugeot Fuel Filter Bowl System



EXHAUST EMISSION SYSTEMS

See EXHAUST EMISSION SYSTEMS section.

GENERAL SERVICING

FUEL SYSTEMS

FUEL INJECTION

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

ELECTRICAL

BATTERY

BATTERY SPECIFICATIONS

Application	Amp. Hour. Rating
All Models	60

STARTER

Bosch, Ducellier and Paris-Rhone are all used on Peugeot diesel models

ALTERNATOR

All models use Paris-Rhone alternators.

ALTERNATOR SPECIFICATIONS

Application	Rated Amp. Output
All Models	75

ALTERNATOR REGULATOR

All diesel models use Paris-Rhone integral alternator regulator.

SERVICE SPECIFICATIONS

BELT ADJUSTMENT

Using a "Krikrit" gauge (Part No. 9797.09) check belt tension for the following values:

BELT ADJUSTMENT

Belt	New Lbs. (kg)	Used Lbs. (kg)
Vacuum Pump	44-66 (20-30)	33 (15)
All Other Belts	88-110 (40-50)	44 (20)

REPLACEMENT INTERVALS

Component	Miles
Oil Filter	3000
Air Filter	
Diesel	15,000
Turbo Diesel	30,000
Fuel Filter	30,000

FLUID CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	5.3 qts. (5.0L)
Cooling System	10.5 qts. (10.0L)
Man. Trans. (SAE 10W-40)	2.4 pts. (1.0L)
Auto Trans. (Dexron)	5.4 pts. (2.5L)
Rear Axle (SAE 80)	3.3 pts. (1.5L)
Fuel Tank	18.0 gals. (68.0L)