

Telephone:

Fax:

Notes			Specified value	Measured value
<b>Vehicle identification</b>				
	No. of cylinders	Type	4/OHC	
	Capacity	cc	1997	
	Compression ratio	:1	18	
<b>Injection system</b>				
	Fuel/injection pump assembly	Make	Bosch	
	Pump type		Common rail	
	Injection sequence		1-3-4-2	
	Injector nozzle	Make	Bosch	
	Nozzle opening pressure - new/used	bar	200-1350	
<b>Tuning and emissions</b>				
	Crankshaft position (n = ATDC)	°BTDC	0	
	Adjusting method	Engine/Pump	Special Tool	
	Idle speed	rpm	780±160	
	Rated no load speed	rpm	5150±100	
	Oil temperature	°C	80	
	Idle speed - for smoke test	rpm	700-900	
	Governed speed range - for smoke test	rpm	5050-5250	
	Maximum time at governed speed	secs	1,0	
	Test mode	A/B	B	
	Probe type	1/2	1	
	Smoke opacity - EU limit	m-1 (%)	3,00 (73)	
<b>Starting and charging</b>				
	Battery	V/RC(Ah)	12	
<b>Glow plugs</b>				
	Glow plug nominal rating	V/A	11	
	Glow plug activation time	secs	16 Max	
	Glow plug - part no.	Bosch	0 250 202 032	
	Glow plug - part no.	Champion	CH170	
<b>Service checks and adjustments</b>				
	Valve clearance - INLET	mm	Hydraulic	
	Valve clearance - EXHAUST	mm	Hydraulic	
	Compression pressure	bar	25-30	
	Turbo boost pressure	bar/rpm	0,9-1,0/2000	
	Oil pressure	bar/rpm	3,8/3000	
	Radiator cap	bar	1,4	
	Thermostat (primary/secondary) open	°C	83	
<b>Lubricants and capacities</b>				
	Engine oil grade - cold climate	SAE	5W/40 Synthetic	
	Engine oil grade - moderate climate	SAE	5W/40 Synthetic	
	Engine oil grade - hot climate	SAE	10W/40 Semi-synthetic	
	Engine oil classification	API/ACEA	CF/B3	
88	Engine with filter(s)	litres	4,5	
	Manual gearbox oil grade	SAE	75W/80	
	Manual gearbox 4/5 speed	litres	2,0	
	Brake fluid	Type	DOT 4	

Manufacturer: Peugeot

Model: 306 (97-03) 2,0D HDi

© Autodata Limited 2007

Engine code: DW10TD (RHY)

Output: 66 (90) 4000

20/01/2013

Tuned for:

Year: 1999-02

V6 410-

/Autodata

	Power steering fluid	Type	Dexron II	
	Power steering fluid	litres	1,0	
<b>Tightening torques</b>				
48	Cylinder head instructions			
<b>Cylinder head</b>				
		Maximum bolt length	133,4 mm	
	Stage 1	Tighten	20 Nm	
	Stage 2	Tighten	60 Nm	
	Stage 3	Tighten	220°	
<b>Other tightening torques</b>				
	Main bearings	Renew bolts/nuts	No	
	Main bearings	Stage 1	25 Nm	
	Main bearings	Stage 2	60°	
	Big end bearings	Renew bolts/nuts	Yes	
	Big end bearings	Stage 1	20 Nm	
	Big end bearings	Stage 2	70°	
	Oil pump to cylinder block		16 Nm	
	Sump bolts		16 Nm	
	Sump drain bolt		34 Nm	
62	Flywheel/driveplate		48 Nm	
	Clutch to flywheel		20 Nm	
	Crankshaft pulley/damper centre bolt		70 Nm+60°	
64	Camshaft sprocket/gear			
	Camshaft carrier/cap		10 Nm	
	Camshaft/rocker cover		10 Nm	
	Inlet manifold to cylinder head		23 Nm	
	Exhaust manifold to cylinder head		30 Nm	
	Injector/clamp		30 Nm	
	Injector pipe unions		20 Nm	
	Fuel/injection pump sprocket/gear		50 Nm	
	Fuel/injection pump flange		20 Nm	
	Fuel/injection pump mounting		23 Nm	
	Glow plugs		10 Nm	
	Engine coolant temperature (ECT) sensor		17 Nm	
	Engine oil pressure switch		30 Nm	
	Front hub		325 Nm	
	Rear hub		190 Nm	
	Steering track rod end		35 Nm	
	Brake caliper to carrier	Front	30 Nm	
	Brake caliper carrier to hub	Front	110 Nm	
	Brake caliper carrier to hub	Rear	120 Nm	
	Back plate to hub	Rear	40 Nm	
	ABS sensor	Front	10 Nm	
	ABS sensor	Rear	10 Nm	
	Road wheels		85 Nm	
<b>Brake disc and drum dimensions</b>				
	Minimum disc thickness - ventilated	Front	18,4 mm	
	Minimum disc thickness	Rear	6 mm	
	Disc thickness variation	Front	0,010 mm	
	Disc thickness variation	Rear	0,010 mm	
	Disc runout	Front	0,05 mm	
	Disc runout	Rear	0,05 mm	
79	Maximum drum diameter	Rear	181,7 mm	
	Minimum pad thickness	Front	2 mm	
	Minimum pad thickness	Rear	2 mm	
	Parking brake travel	No. of notches	6-8	
<b>Air conditioning</b>				
	Air conditioning refrigerant	Type	R134a	

Air conditioning refrigerant quantity	grams	725±25	
Air conditioning oil	Type	SP10	
Air conditioning oil quantity	cm <sup>3</sup>	135±15	
Air conditioning oil viscosity	ISO	46	

#### Autodata Note 88

Aluminium sump = 4,25 litres

#### Autodata Note 48

+ Molykote G Rapid Plus

#### Autodata Note 62

Use new bolts.

#### Autodata Note 64

A = 20 Nm

B = 43 Nm

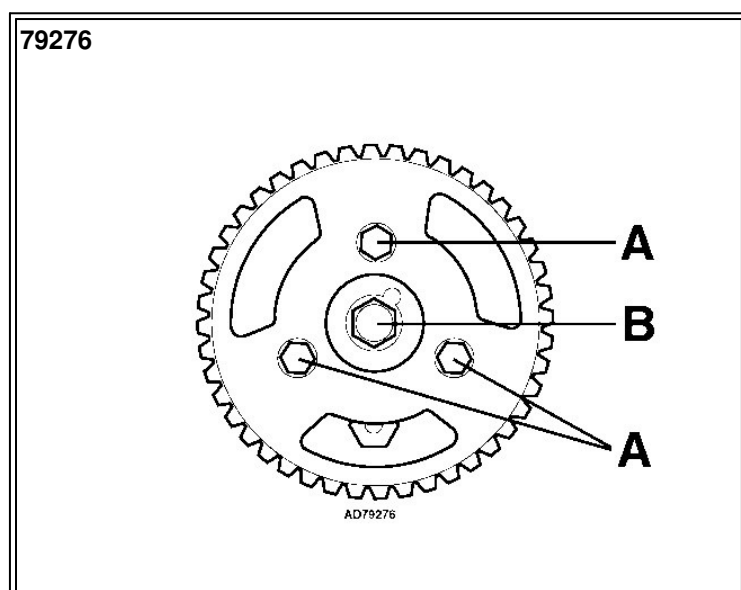
Fig. 79276

#### Autodata Note 79

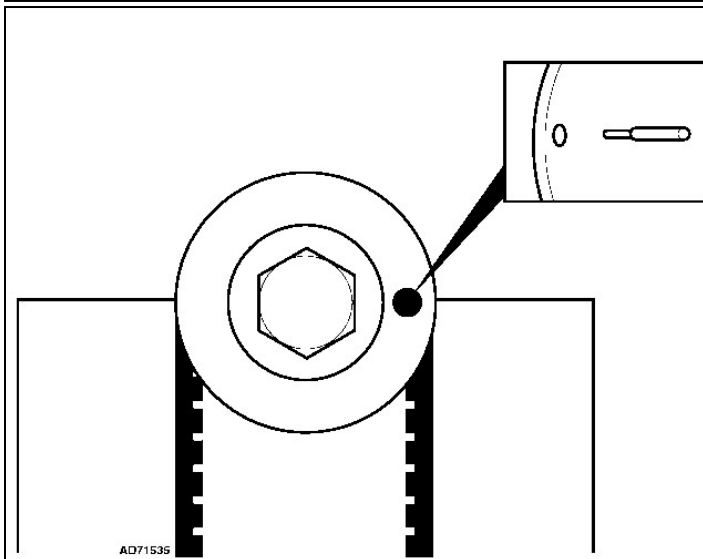
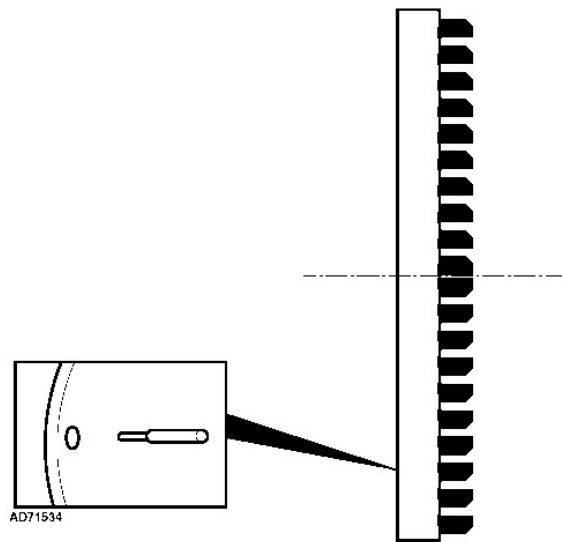
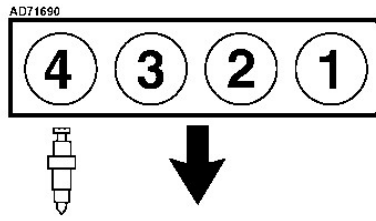
Turbo = 204 mm

ABS = 204 mm

Est/Kmb/Brk = 228,8 mm



### Cylinder layout



### Tightening sequence

