

PEUGEOT-TALBOT

J5, Express, Sportsman 1.8

1985 to 1993

Engine & Cooling

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Automotive Technical
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Engine and cooling system

J5, Express, Sportsman 1.8

1985 to 1993

Type		XM7T (169B) (49kW)
Capacity (cm³) / number of cylinders		1796 / 4
Compression ratio / pressure	bar	7.5 / _
Oil pressure	bar	2.7 [3.8]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.25
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.9

Fuel system

J5, Express, Sportsman 1.8

1985 to 1993

Idle speed - manual [auto]	rpm	800 to 850
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex
Type / ref		34 PBISA16 (PEU A315)
Main jet / needle		130±5
Injection pressure	bar	_
Pump pressure	bar	0.32
Octane rating	RON	96[R]

Ignition system

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1985 to 1993

Type		Electronic
Ignition coil		_
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	M130E
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	7 to 11 @ 1000
	° Crankshaft @ rpm	24.5 to 28.5 @ 3000
	° Crankshaft @ rpm	34 to 38 @ 5000
Vacuum range check	mbar	160 to 400
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Bosch/Champion
Type		W7DC / N281YC
Electrode gap	mm	0.60

Electrical system

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1985 to 1993

Battery	V / CC / RC	12 / 255 / 85
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	330 to 400 / _

Running gear

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1985 to 1993

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	_

Tyres		
Saloon	Size	_
Estate / Van	Size	165/75x14: 185x14
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	4.1 / 4.5¹

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-0.5±1.0²
Camber		+2°20'±30'
Castor		+30'±30'
King pin inclination		+11°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		0

Torque wrench settings

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1985 to 1993

Cylinder head - stage 1	Nm	50, then slacken³
- stage 2	Nm	20 + 90°³
Cylinder head - stage 3	Nm	Warm up & cool, slacken³
- stage 4	Nm	20 + 90°³
Big-end bearings	Nm	40
Main bearings	Nm	75
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	68
Front hubs	Nm	500
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	160
Spark plugs	Nm	25

Capacities

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1985 to 1993

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	70

Notes and Illustrations

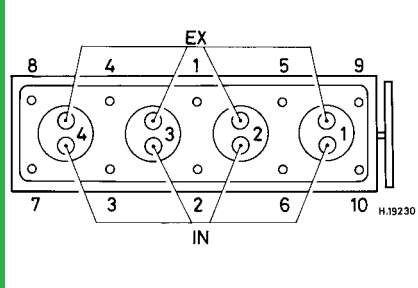
¹185x14: 3.9 / 4.8. 87 ►: 3.7 / 4.5. 185x14: 4.3 / 4.5

²Bare chassis: -2.0±1.0

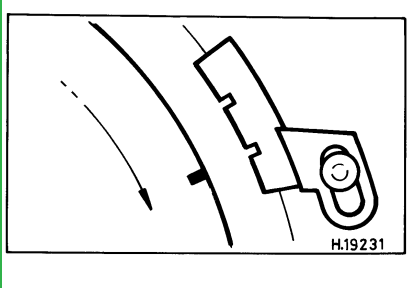
³Engine 012 626 ►: 50, slacken, then 20 + 180°. Warm up, + 35°

1: Idle speed

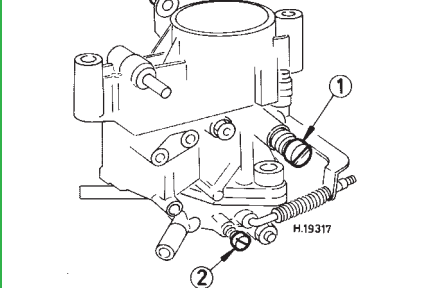
2: CO / Mixture



1796 cm³



1796 cm³



Solex PBISA