

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

405, 1.9 & 4x4

1988 to 1990

Type		XU92C (D2D) (81kW)
Capacity (cm³) / number of cylinders		1905 / 4
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	1.4 [4.1]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.40
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.0

Fuel system

405, 1.9 & 4x4

1988 to 1990

Idle speed - manual [auto]	rpm	750±100 [850±100]
Fast idle speed - manual [auto]	rpm	850±100
CO @ idle speed [3000 rpm] - see page VI	%	0.8 to 1.5
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		34-34 Z1 447/455/462/463/493
Main jet / needle		120, 125¹
Injection pressure	bar	_
Pump pressure	bar	0.32
Octane rating	RON	97[RA]²

Ignition system

405, 1.9 & 4x4

1988 to 1990

Type		Electronic
Ignition coil		_
Primary resistance	ohms	0.7
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 750²
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	C053-D040
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	10 to 14 @ 1400
	° Crankshaft @ rpm	16 to 20 @ 2000
	° Crankshaft @ rpm	30 to 36 @ 5600
Vacuum range check	mbar	113 to 400
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Eyquem/Champion
Type		FC58LS / C7YCX
Electrode gap	mm	0.80

Electrical system

405, 1.9 & 4x4

1988 to 1990

Battery	V / CC / RC	12 / 200 / 33 [AT: 12 / 250]
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

405, 1.9 & 4x4

1988 to 1990

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

Tyres		
Saloon	Size	175/70x14: 185/65x14
Estate / Van	Size	175/70x14: 185/65x14
Pressure - front / rear - Saloon	bar	2.0 / 2.0³
- Estate / Van	bar	2.1 / 2.3⁴

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±0.5 PW
Camber		0±30'
Castor		+2°25'±30'. PAS: +3°10'±30'⁵
King pin inclination		+11°25'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.5±0.8 PW⁶
Camber		-1°20'±30'

Torque wrench settings

405, 1.9 & 4x4

1988 to 1990

Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
Big-end bearings	Nm	40⁷
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	265
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	27

Capacities

405, 1.9 & 4x4

1988 to 1990

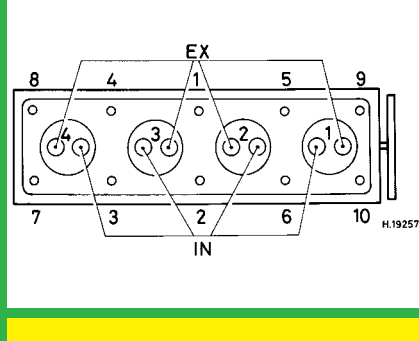
Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0⁸
Automatic transmission - refill	litres	2.4
Final drive	litres	4x4: 1.6
Cooling system	litres	6.6
Fuel tank	litres	70

Notes and Illustrations

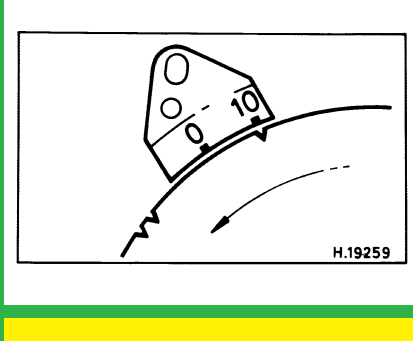
- ¹-447/462/493: 117±5, 120±5. -455/463: 120, 120
- ²[E 95 RON], -3°
- ³AT: 2.0 / 2.1
- ⁴185/65x14: 2.0 / 2.2
- ⁵Estate: +1°40'±30'. PAS: +2°25'±30'
- ⁶Estate: -1.4±0.8. 4x4: +1.7±0.9
- ⁷Slacken, then 20 + 70°
- ⁸Transfer box: 1.8

1: Idle speed

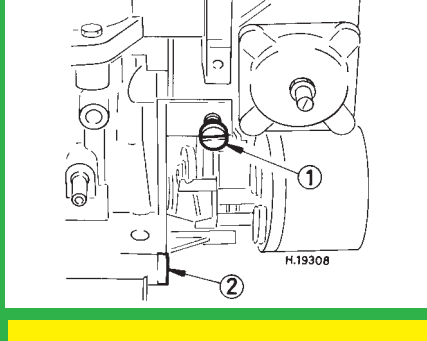
2: CO / Mixture



1905 cm³, 8V



1905 cm³, 8V, XU92C (D2D)



Solex Z1