

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemAX Sport1987 to 1990

Type		TU24 (M4A) 69kW
Capacity (cm³) / number of cylinders		1294 / 4
Compression ratio / pressure	bar	9.6 / _
Oil pressure	bar	[4.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.05
Valve clearance - exhaust	mm	0.30±0.05
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	93
Radiator cap pressure	bar	1.0

Fuel systemAX Sport1987 to 1990

Idle speed - manual [auto]	rpm	850±50. 11.88 ▶: 900±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	≥9.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex/Weber
Type / ref		S: 40 ADDHE 52-52. W: 40 DCOM
Main jet / needle		W: 115±5
Injection pressure	bar	_
Pump pressure	bar	0.25
Octane rating	RON	97[E 98 RON]

Ignition systemAX Sport1987 to 1990

Type		Electronic - Hall effect
Ignition coil		Ducellier, Marelli BTR 02
Primary resistance	ohms	0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ 900
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C043-D037
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 700 to 1400
	° Crankshaft @ rpm	16 to 20 @ 2200
	° Crankshaft @ rpm	21 to 25 @ 5000
Vacuum range check	mbar	80 to 300
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Eyquem/Champion
Type		FC82LS3 / RC6YCC
Electrode gap	mm	0.80 N/A

Electrical systemAX Sport1987 to 1990

Battery	V / CC / RC	12 / 150 / _
Alternator voltage / full load current / engine rpm		13.5 / 50 / 3650
Starter motor current / voltage - cranking	A / V	105 / 12
- locked	A / V	220 / _

Running gearAX Sport1987 to 1990

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	165/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.0±1.5
Camber		-30'±30'
Castor		+2°15'±30'
King pin inclination		+12.58°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.8 to 5.4
Camber		-1°15'±20' N/A

Torque wrench settingsAX Sport1987 to 1990

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 240°
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	40
Main bearings	Nm	20 + 45°
Clutch cover	Nm	13
Flywheel [driveplate]	Nm	65 LkC
Front hubs	Nm	250
Rear hubs	Nm	140
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

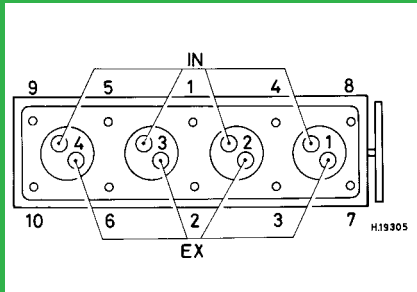
CapacitiesAX Sport1987 to 1990

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	4.8
Fuel tank	litres	43

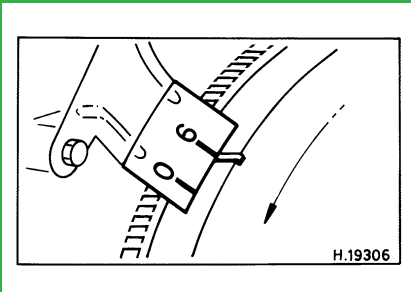
Notes and Illustrations



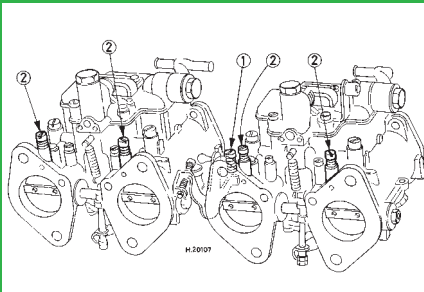
1: Idle speed 2: CO / Mixture



1294 cm³



1294 cm³



Solex ADDHE / Weber DCOM