

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# 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 Tipo 1.4 & Selecta 1988 to 1990

Type		160 A1.000 52kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1372 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.05
Valve clearance - exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

## Fuel system Tipo 1.4 & Selecta 1988 to 1990

Idle speed - manual [auto]	rpm	800 to 850 [850±50]
Fast idle speed - manual [auto]	rpm	1300±50
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5 [1.25±0.25]
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		32-34 TLDE 4/150/550 [9/751]
Main jet / needle		110, 130
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	98[E 95 RON]

## Ignition system Tipo 1.4 & Selecta 1988 to 1990

Type		Electronic
Ignition coil		Marelli BAE 506D
Primary resistance	ohms	0.666 to 0.814
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	10±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0±2 @ 1500
	° Crankshaft @ rpm	7 to 11 @ 2550
	° Crankshaft @ rpm	18 to 22 @ 5250
Vacuum range check	mbar	200 to 467
Maximum vacuum advance	° Crankshaft	13 to 17
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YCC
Electrode gap	mm	0.70 to 0.80 <sup>1</sup>

## Electrical system Tipo 1.4 & Selecta 1988 to 1990

Battery	V / CC / RC	12 / 185 / 40 or / 200 / 40
Alternator voltage / full load current / engine rpm		14.0 to 14.6 / _ / 3500
Starter motor current / voltage - cranking	A / V	160 to 180 / 9.4 to 9.6
- locked	A / V	316 / 7.3

## Running gear Tipo 1.4 & Selecta 1988 to 1990

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

<b>Tyres</b>		
Saloon	Size	165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	_

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		+10'±30' N/A
Castor		+1°20'±30'. PAS: +2°20'±30'
King pin inclination		_

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-1.0±2.0
Camber		-1°±30'

## Torque wrench settings Tipo 1.4 & Selecta 1988 to 1990

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	M6: 17. M8: 30
Flywheel [driveplate]	Nm	83
Front hubs	Nm	250 <sup>2</sup>
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

## Capacities Tipo 1.4 & Selecta 1988 to 1990

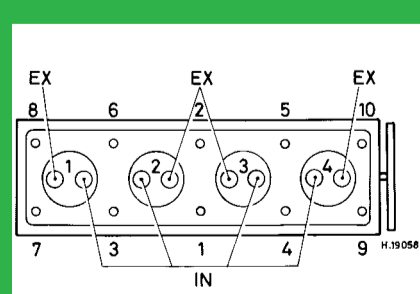
Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	3.5
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	55

## Notes and Illustrations

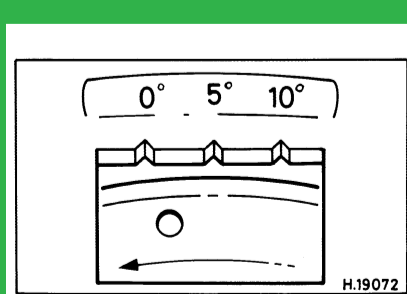
<sup>1</sup>RN9YCC: 0.85 to 0.95

<sup>2</sup>90 ►, with integral washers: 235

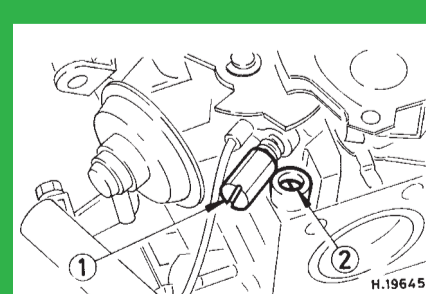
1: Idle speed    2: CO / Mixture



1372 cm<sup>3</sup>



1372 cm<sup>3</sup>



Weber TLDE