

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Regata 100Sie & Weekend

1986 to 1988

Type		149 C3.000 DOHC
Capacity (cm ³) / number of cylinders		1585 / 4
Compression ratio / pressure	bar	9.7 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.45±0.04
Valve clearance - exhaust	mm	0.50±0.04
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	81 to 85
Radiator cap pressure	bar	1.0

Fuel system

Regata 100Sie & Weekend

1986 to 1988

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		GM/Fiat
Type / ref		Delco SPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[L]

Ignition system

Regata 100Sie & Weekend

1986 to 1988

Type		AEI
Ignition coil		Marelli
Primary resistance	ohms	0.31 to 0.38
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	10±2 @ 700 to 1200
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	40±2 @ 3200 to 6500
Centrifugal check.	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	_
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

Regata 100Sie & Weekend

1986 to 1988

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3500
Starter motor current / voltage - cranking	A / V	270 / 9.2
- locked	A / V	540 / 6.5

Running gear

Regata 100Sie & Weekend

1986 to 1988

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	165/65x14
Estate / Van	Size	165/65x14
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	2.2 / 2.2

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0
Camber		+1° to 2°
Castor		+1° to 2°
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +4.0 ¹
Camber		-45' to +15' ¹²

Torque wrench settings

Regata 100Sie & Weekend

1986 to 1988

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	20 + 80°
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	294 staked
Rear hubs	Nm	216staked
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

Regata 100Sie & Weekend

1986 to 1988

Engine oil & filter	litres	4.6
Gearbox - 4-speed [5-speed]	litres	2.9
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.5
Fuel tank	litres	55

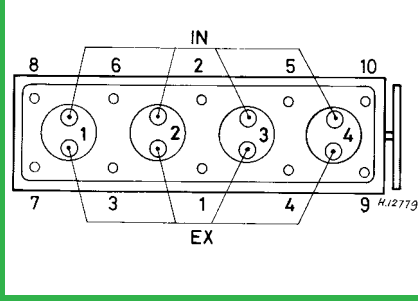
Notes and Illustrations

¹Weekend: +2.0 to 6.0

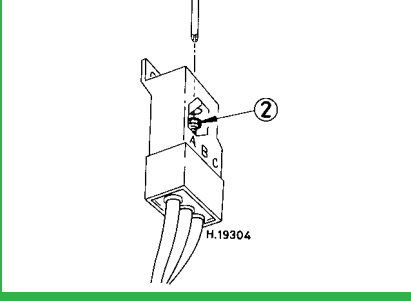
²Weekend: -40' to +20'

1: Idle speed

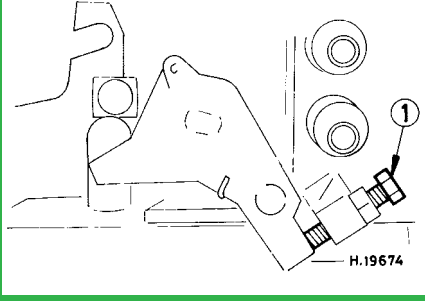
2: CO / Mixture



1585 cm³, DOHC



Delco SPI



Delco SPI