

VAUXHALL/OPEL

Calibra 2.5i 24V

1993 to 1996

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Calibra 2.5i 24V

1993 to 1996

Type		C25XE 24V 125kW 91/441/EEC
Capacity (cm ³) / number of cylinders		2498 / 6
Compression ratio / pressure	bar	10.8 / _
Oil pressure	bar	1.2
Oil temperature	°C	≥100
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-2-3-4-5-6
No 1 cylinder position		RR
Thermostat opening temperature	°C	92 to 107
Radiator cap pressure	bar	1.40

Fuel system

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Idle speed - manual [auto]	rpm	620 to 780
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		M2.8-Motronic SEFI
Main jet / needle		_
Injection pressure	bar	2.2 to 2.7
Pump pressure	bar	3.0 to 3.5
Octane rating	RON	95[U]

Ignition system

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Type		Motronic
Ignition coil		3x2 Dual spark
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Bosch
Type		FR8LDC
Electrode gap	mm	0.80±0.10

Electrical system

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Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		14.0 / 70, 100 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	195/60x15: 205/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.6 / 2.4
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-15'±10']
Camber		-1°10'±45'
Castor		+2°±1° L
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-22'+30'-20']
Camber		-2°17'±41'

Torque wrench settings

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Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90° +15°
Big-end bearings	Nm	35 + 45° +15° N
Main bearings	Nm	50 + 60° +15° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	65 + 30° +15° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

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Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	3.0 to 3.5
Final drive	litres	WT
Cooling system	litres	7.3
Fuel tank	litres	61

Notes and Illustrations

2498 cm³, 24V