

VAUXHALL/OPEL

Astra-F 1.4i 16V

1996 to 1997

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Astra-F 1.4i 16V

1996 to 1997

Type		X14XE 16V 66kW 94/12/EC
Capacity (cm ³) / number of cylinders		1389 / 4
Compression ratio / pressure	bar	10.5 / _
Oil pressure	bar	1.5
Oil temperature	°C	≥80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	92
Radiator cap pressure	bar	1.20 to 1.50

Fuel system

Astra-F 1.4i 16V

1996 to 1997

Idle speed - manual [auto]	rpm	820 to 890
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
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		GM
Type / ref		Rochester Multec-S MPI
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system

Astra-F 1.4i 16V

1996 to 1997

Type		Multec-DIS ¹
Ignition coil		_
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		NGK
Type		FR8LDC
Electrode gap	mm	0.70 to 0.80

Electrical system

Astra-F 1.4i 16V

1996 to 1997

Battery	V / CC / RC	12 / 36, 44Ah
Alternator voltage / full load current / engine rpm		_
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

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1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	0.5 above rivets

Tyres		
Saloon	Size	155x13: 175/70x13: 175/70x14
Estate / Van	Size	155x13: 175/70x13: 175/70x14
Pressure - front / rear - Saloon	bar	Refer to vehicle
- Estate / Van	bar	Refer to vehicle

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.5 to -0.5 L
Camber		-1°5'±45' N/A
Castor		+2°15'±1°N/A ³
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +4.0
Camber		-1°40'±30' N/A

Torque wrench settings

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1996 to 1997

Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90° + 45°
Big-end bearings	Nm	25 + 30°
Main bearings	Nm	50 + 45° + 15°
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	35 + 30° + 15° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	28

Capacities

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1996 to 1997

Engine oil & filter	litres	3.25
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	3.0 to 3.5
Final drive	litres	WT
Cooling system	litres	5.8
Fuel tank	litres	52. Estate: 50

Notes and Illustrations

1389 cm³, 16V