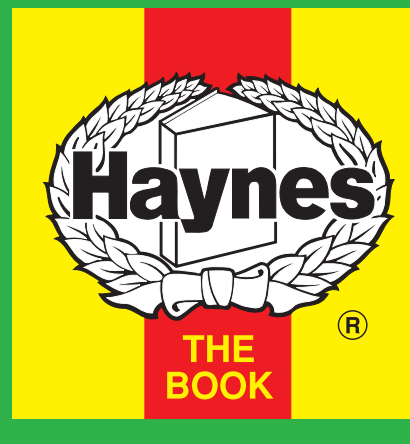


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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MENU

HELP

Engine and cooling system Astra-F 1.8i 16V 1995 to 1996

Type	C18XEL 16V 85kW 91/441/EC	
Capacity (cm ³) / number of cylinders	1798 / 4	
Compression ratio / pressure	bar	10.8 /
Oil pressure	bar	2.0
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	1.2 to 1.5

Fuel system Astra-F 1.8i 16V 1995 to 1996

Idle speed - manual [auto]	rpm	700 to 1000
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5 WSM
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	_GM	
Type / ref	Simtec 56.1	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system Astra-F 1.8i 16V 1995 to 1996

Type	DIS	
Ignition coil	—	
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	—	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
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	0.7 to 0.8

Electrical system Astra-F 1.8i 16V 1995 to 1996

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm	—	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Astra-F 1.8i 16V 1995 to 1996

Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—
Tyres		
Saloon	Size	195/55x15: 175/65x14
Estate / Van	Size	175/65x14: 195/55x15
Pressure - front / rear - Saloon	bar	2.3 / 2.0
- Estate / Van	bar	2.2 / 2.0
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.5±1.0
Camber		-1°5'±45'
Castor		2°15'±1°
King pin inclination	—	
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	1.0±2.0
Camber		-1°40'±30'

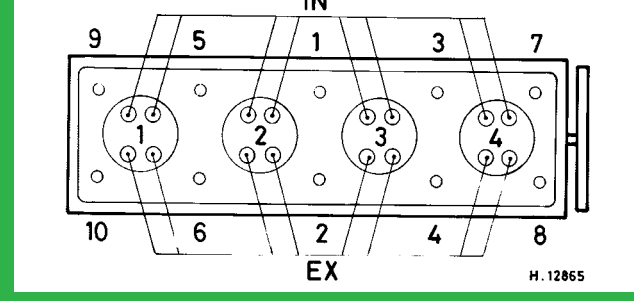
Torque wrench settings Astra-F 1.8i 16V 1995 to 1996

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

Capacities Astra-F 1.8i 16V 1995 to 1996

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.9
Fuel tank	litres	52

Notes and Illustrations



1798 cm³, DOHC 16V