

VAUXHALL/OPEL

Astra-F 1.8i 16V

1995 to 1996

Engine & Cooling

Fuel

Ignition

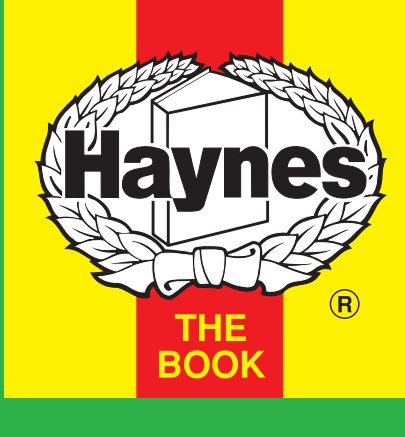
Electrical

Running gear

Torque settings

Capacities

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Automotive Technical
DATA BOOK

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Engine and cooling system			Astra-F 1.8i 16V	1995 to 1996
Type			C18XEL 16V 85kW 91/441/EC	
Capacity (cm³) / 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	
CO2 @ idle speed [3000 rpm] - see page VI		%	—	
O2 @ 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
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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	

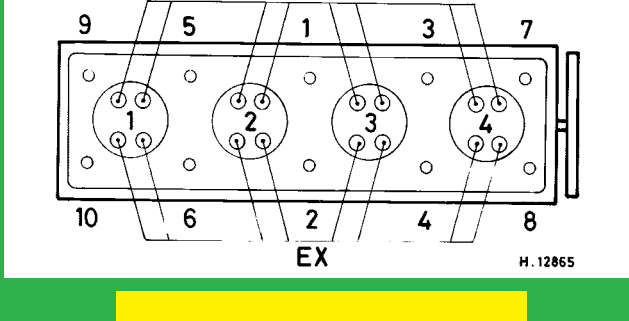
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	-1.5±1.0	
Camber			-1°5'±45'	
Castor			2°15'±1°	
King pin inclination			—	

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