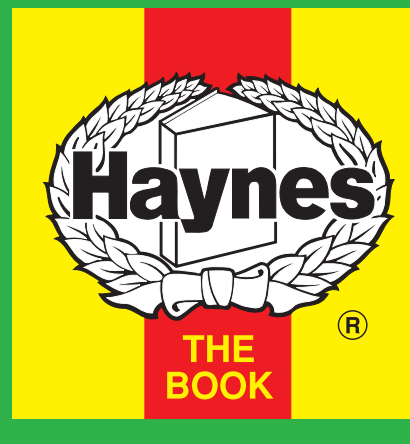


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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MENU

HELP

Engine and cooling system Astra-F 1.6i CAT 1992 to 1997

Type	C16SE 8V 74kW 91/441/EEC	
Capacity (cm ³) / number of cylinders	1598 / 4	
Compression ratio / pressure	bar	9.8 / _
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	1.2 to 1.5

Fuel system Astra-F 1.6i CAT 1992 to 1997

Idle speed - manual [auto]	rpm	820 to 980
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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	GM	
Type / ref	Rochester Multec-M MPI	
Main jet / needle	_	
Injection pressure	bar	3.0
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system Astra-F 1.6i CAT 1992 to 1997

Type	Multec-DIS	
Ignition coil	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	Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 820 to 980
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	_
	° 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/Champion	
Type	WR7DC / RN7YC	
Electrode gap	mm	0.70 to 0.80

Electrical system Astra-F 1.6i CAT 1992 to 1997

Battery	V / CC / RC	12 / 44Ah
Alternator voltage / full load current / engine rpm	_ / 70 / _	
Starter motor current / voltage - cranking	A / V	40 to 65 / 10.6
- locked	A / V	400 to 500 / 7.0 to 8.2

Running gear Astra-F 1.6i CAT 1992 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: 175/65x14 ¹
Estate / Van	Size	155x13: 175/70x13: 175/65x14 ²
Pressure - front / rear - Saloon	bar	2.2 / 1.9: 2.1 / 1.8
- Estate / Van	bar	2.1 / 1.9

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 ²	
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 Astra-F 1.6i CAT 1992 to 1997

Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+ 60°
Cylinder head - stage 3	Nm	+ 60°
- stage 4	Nm	+60°
Big-end bearings	Nm	28 ⁴
Main bearings	Nm	50 + 45° +15° N
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	25

Capacities Astra-F 1.6i CAT 1992 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	3.0 to 3.5
Final drive	litres	WT
Cooling system	litres	5.6
Fuel tank	litres	52. Estate: 50

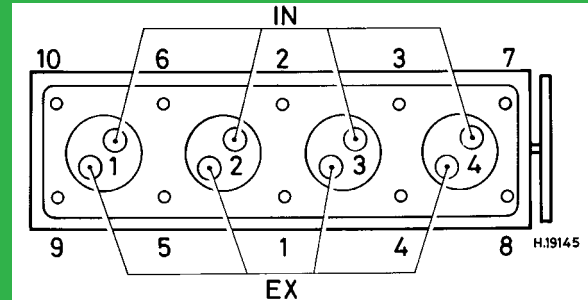
Notes and Illustrations

¹175/65x14 (2.1 / 1.8): 195/60x14 (2.0 / 1.7)

²195/55x15

³Estate: +1°30'±1° L

⁴40mm bolt: 25 + 30°



1598 cm³, 8V