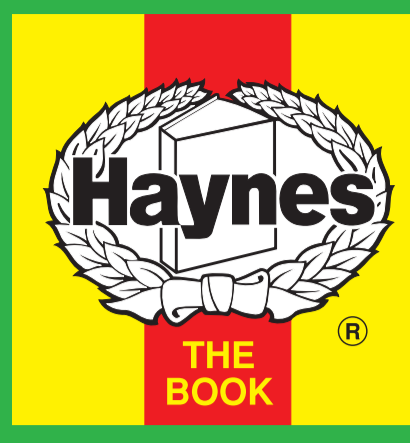


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU **HELP**

Engine and cooling system Astra-F 1.4i Hi-Torq 1991 to 1996

Type		C14NZ 8V 44kW 91/441/EEC
Capacity (cm ³) / number of cylinders		1389 / 4
Compression ratio / pressure	bar	9.4 / _
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 1.4i Hi-Torq 1991 to 1996

Idle speed - manual [auto]	rpm	830 to 990
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		Rochester Multec-ZE CFI
Main jet / needle		_
Injection pressure	bar	0.76
Pump pressure	bar	0.76
Octane rating	RON	95[U]

Ignition system Astra-F 1.4i Hi-Torq 1991 to 1996

Type		Multec-MSTS-h
Ignition coil		Delco 3 474 233
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 830 to 990
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 1.4i Hi-Torq 1991 to 1996

Battery	V / CC / RC	12 / 36, 44Ah
Alternator voltage / full load current / engine rpm		13.7 to 15.2 / 55, 70 / 3000
Starter motor current / voltage - cranking	A / V	35 to 65 / 10.6 to 12.2
- locked	A / V	360 to 500 / 7.0 to 8.6

Running gear Astra-F 1.4i Hi-Torq 1991 to 1996

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 ¹
Pressure - front / rear - Saloon	bar	2.0 / 1.7 (155x13: 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 1.4i Hi-Torq 1991 to 1996

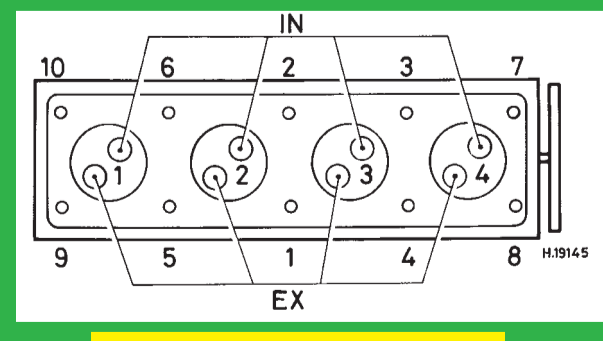
Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+ 60°
Cylinder head - stage 3	Nm	+ 60°
- stage 4	Nm	+60°
Big-end bearings	Nm	28 ³
Main bearings	Nm	50 + 45° to 60° N
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	35 + 30° +15° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities Astra-F 1.4i Hi-Torq 1991 to 1996

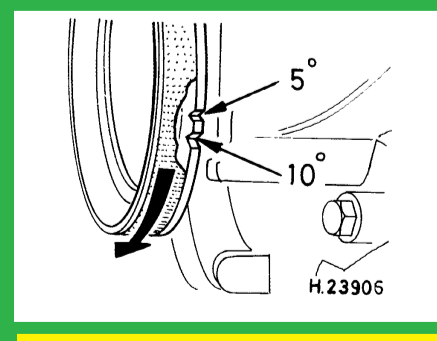
Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	3.0 to 3.5
Final drive	litres	WT
Cooling system	litres	5.8
Fuel tank	litres	52. Estate: 50

Notes and Illustrations

¹185/60x14. Van: 175/60x13: 185/60x14: 195/55x15
²Estate: +1°30'±1° L
³40mm bolt: 25 + 30°



1389 cm³, 8V



1389 cm³, 8V