

VAUXHALL/OPEL

Kadett/Astra 2.0i

1986 to 1991

Engine & Cooling

Fuel

Ignition

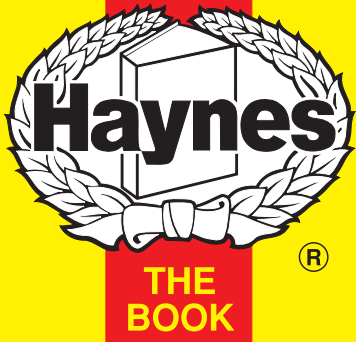
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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		Kadett/Astra 2.0i	1986 to 1991
Type		20SEH/R SOHC. 95/91kW. 15.04	
Capacity (cm ³) / number of cylinders		1998 / 4	
Compression ratio / pressure	bar	10.0 / _	
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		Kadett/Astra 2.0i	1986 to 1991
Idle speed - manual [auto]	rpm	720 to 880	
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		Bosch	
Type / ref		Motronic ML4.1. 9.89 ►: M1.5	
Main jet / needle		_	
Injection pressure	bar	_	
Pump pressure	bar	2.5±0.2	
Octane rating	RON	98[E 95 RON] ¹	

Ignition system		Kadett/Astra 2.0i	1986 to 1991
Type		DME Motronic	
Ignition coil		Bosch 90 240 252	
Primary resistance	ohms	0.68 to 0.76	
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	8 to 12 BTDC @ 720 to 880N/A ²	
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		AC/Champion	
Type		CR42CXLS / RN7YC	
Electrode gap	mm	0.70 to 0.80	

Electrical system		Kadett/Astra 2.0i	1986 to 1991
Battery	V / CC / RC	12 / 210 / 150	
Alternator voltage / full load current / engine rpm		14.5±0.25 / _ / 3500	
Starter motor current / voltage - cranking	A / V	_	
- locked	A / V	475 to 600 / 3.5	

Running gear		Kadett/Astra 2.0i	1986 to 1991
Brakes -			
Front (min. friction material thickness)	mm	7.0 with backing	
Rear (min. friction material thickness)	mm	0.5 above rivets	

Tyres			
Saloon	Size	175/65x14:185/60x14:185/65x14	
Estate / Van	Size	_	
Pressure - front / rear - Saloon	bar	2.1 / 1.9	
- Estate / Van	bar	_	

Front suspension / wheel alignment			
Toe-in (+) / Toe-out (-)	mm [°]	-2.0 to 0 L	
Camber		-1°15' to +15'	
Castor		+45' to 2°45'	
King pin inclination		_	

Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (-)	mm [°]	[-10' to +40']	
Camber		-30'±30'	

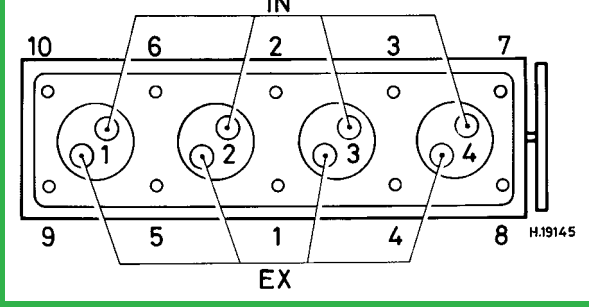
Torque wrench settings		Kadett/Astra 2.0i	1986 to 1991
Cylinder head - stage 1	Nm	25 N	
- stage 2	Nm	+90°	
Cylinder head - stage 3	Nm	+90°	
- stage 4	Nm	+90°	
Big-end bearings	Nm	35 + 45° to 60°	
Main bearings	Nm	50 + 40° to 50°	
Clutch cover	Nm	15	
Flywheel [driveplate]	Nm	65 + 30° to 45°	
Front hubs	Nm	WSM	
Rear hubs	Nm	WSM	
Wheel nuts / bolts	Nm	90	
Spark plugs	Nm	25	

Capacities		Kadett/Astra 2.0i	1986 to 1991
Engine oil & filter	litres	4.0	
Gearbox - 4-speed [5-speed]	litres	2.1	
Automatic transmission - refill	litres	_	
Final drive	litres	WT	
Cooling system	litres	6.9	
Fuel tank	litres	52	

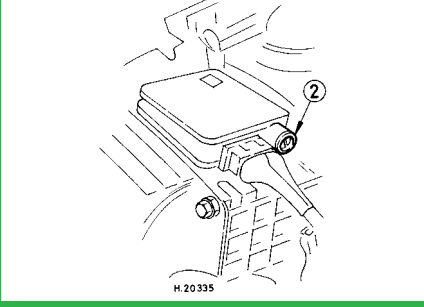
Notes and Illustrations

¹Octane rating plug = 95 RON. 89 ►: [E 95 RON]
²20SER: 18 to 22 BTDC @ idle

1: Idle speed 2: CO / Mixture



1998 cm³, 8V



ML4.1 / M1.5-Motronic, not CAT