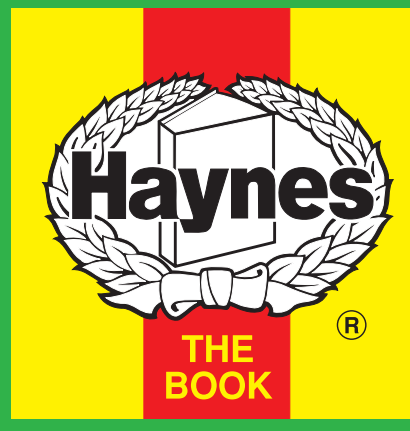




Automotive Technical DATA BOOK

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/Belmont 1.8i	1986 to 1991
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type		18SE SOHC. 82kW. 15.04
Capacity (cm³) / number of cylinders		1796 / 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/Belmont 1.8i	1986 to 1991
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Idle speed - manual [auto]	rpm	800 to 900
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		Bosch
Type / ref		L3-Jetronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.5
Octane rating	RON	98[E 95 RON] ¹

Ignition system	Kadett/Astra/Belmont 1.8i	1986 to 1991
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Type		MSTS-i
Ignition coil		Bosch 90 273 965
Primary resistance	ohms	0.6 to 0.9
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 @ 700 to 1000
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	98 RON: 15 to 19 @ 1800
	° Crankshaft @ rpm	95 RON: 10 to 14 @ 1800
	° 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/Belmont 1.8i	1986 to 1991
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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	_

Running gear	Kodett/Astro/Belmont 1.8i	1986 to 1991
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Routine

Brakes -			
Front (min. friction material thickness)	mm	7.0 with backing	
Rear (min. friction material thickness)	mm	6.5 above rivets	

Tyros

Saloon	Size	175/70x13:185/60x14:175/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 1.9

Front suspension / wheel alignment

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

Bear suspension / wheel alignment

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-10' to +40']
Camber		20'±20'

Torque wrench settings

Torque wrench settings		Kadett/Astra/Belmont 1.8i	1986 to 1991
Cylinder head - stage 1	Nm	25 N	

	- stage 2	Nm	+90°
Cylinder head	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

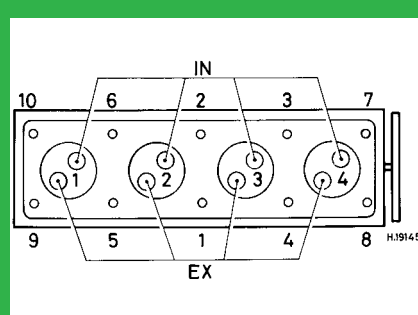
Capacities		Kadett/Astra/Belmont 1.8i	1986 to 1991
1	100	100	100
2	200	200	200
3	300	300	300
4	400	400	400
5	500	500	500
6	600	600	600
7	700	700	700
8	800	800	800
9	900	900	900
10	1000	1000	1000
11	1100	1100	1100
12	1200	1200	1200
13	1300	1300	1300
14	1400	1400	1400
15	1500	1500	1500
16	1600	1600	1600
17	1700	1700	1700
18	1800	1800	1800
19	1900	1900	1900
20	2000	2000	2000
21	2100	2100	2100
22	2200	2200	2200
23	2300	2300	2300
24	2400	2400	2400
25	2500	2500	2500
26	2600	2600	2600
27	2700	2700	2700
28	2800	2800	2800
29	2900	2900	2900
30	3000	3000	3000
31	3100	3100	3100
32	3200	3200	3200
33	3300	3300	3300
34	3400	3400	3400
35	3500	3500	3500
36	3600	3600	3600
37	3700	3700	3700
38	3800	3800	3800
39	3900	3900	3900
40	4000	4000	4000
41	4100	4100	4100
42	4200	4200	4200
43	4300	4300	4300
44	4400	4400	4400
45	4500	4500	4500
46	4600	4600	4600
47	4700	4700	4700
48	4800	4800	4800
49	4900	4900	4900
50	5000	5000	5000
51	5100	5100	5100
52	5200	5200	5200
53	5300	5300	5300
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59	5900	5900	5900
60	6000	6000	6000
61	6100	6100	6100
62	6200	6200	6200
63	6300	6300	6300
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66	6600	6600	6600
67	6700	6700	6700
68	6800	6800	6800
69	6900	6900	6900
70	7000	7000	7000
71	7100	7100	7100
72	7200	7200	7200
73	7300	7300	7300
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76	7600	7600	7600
77	7700	7700	7700
78	7800	7800	7800
79	7900	7900	7900
80	8000	8000	8000
81	8100	8100	8100
82	8200	8200	8200
83	8300	8300	8300
84	8400	8400	8400
85	8500	8500	8500
86	8600	8600	8600
87	8700	8700	8700
88	8800	8800	8800
89	8900	8900	8900
90	9000	9000	9000
91			

Capacities		Radett/Astra/Belmont 1.8i	1986 to 1991
Engine oil & filter	litres	4.0	
Gearbox - 4-speed [5-speed]	litres	2.1	
Automatic transmission - refill	litres	6.3	
Final drive	litres	WT	
Cooling system	litres	6.9	
Fuel tank	litres	52	

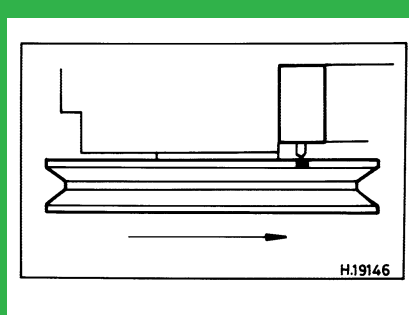
Notes and Illustrations

¹Octane rating plug = 95 RON - 89 > : [E 95 RON]

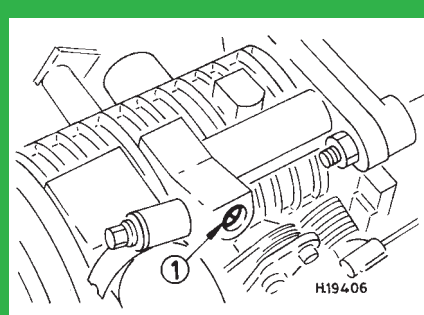
1: Idle speed 2: CO / Mixture



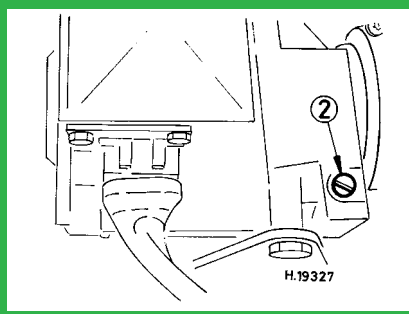
1796 cm³, 8V



1796 cm³, 18SE



L3-Jetronic



L3-Jetronic