

A screenshot of a computer screen with a green background. On the left is the Haynes logo, which consists of a yellow circle with a red vertical stripe through the center. Inside the circle is a white book icon with the word 'Haynes' in black. Below the circle is a red rectangle with the words 'THE BOOK' in yellow. To the right of the logo is the text 'Automotive Technical' in black, followed by 'DATA BOOK' in large yellow letters. On the right side of the screen is a yellow rectangular box containing the text: '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.' Below this box are two gray buttons with black text: 'MENU' and 'HELP'.

Engine and cooling system		Kadett/Astra/Belmont 1.8i CAT	1990 to 1991
Type		C18NZ SOHC. 66kW. US83	
Capacity (cm³) / number of cylinders		1796 / 4	
Compression ratio / pressure	bar	9.2 / _	
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 CAT	1990 to 1991
Idle speed - manual [auto]	rpm	800 to 960
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		Multec-ZE CFI
Main jet / needle		—
Injection pressure	bar	0.76
Pump pressure	bar	—
Octane rating	RON	95 [11]¹

Ignition system		Kadett/Astra/Belmont 1.8i CAT	1990 to 1991
Type		Multec	
Ignition coil		Bosch	
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	10 BTDC @ 800 to 960 N/A	
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		WR6DC / RN7YCC	
Electrode gap	mm	0.70 to 0.80	

Electrical system	Kadett/Astra/Belmont 1.8i CAT	1990 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	–
Running gear	Kadett/Astra/Belmont 1.8i CAT 1990 to 1991		

Running gear		Radette/Astra/Delmont 1.6i CAT		1990 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	175/70x13:185/60x14:175/65x14
Estate / Van	Size	155x13: 165x13: 175/70x13
Pressure - front / rear - Saloon	bar	2.1 / 1.9
Pressure - front / rear - Estate / Van	bar	2.2 / 2.0

- Estate / Van		bar	2.0 / 2.0
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			

King pin inclination	—	
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-10' to +40']

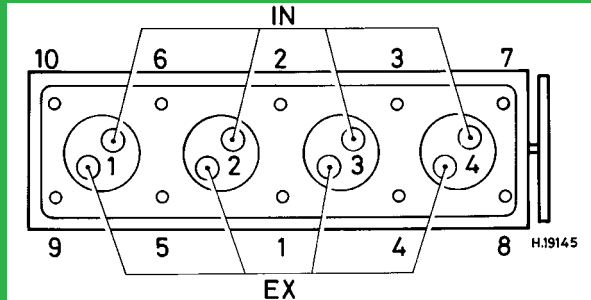
Camber	-30'±30'
--------	----------

Torque wrench settings	Kadett/Astra/Belmont 1.8i CAT	1990 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

spark plugs	NM	25
Capacities	Kadett/Astra/Belmont 1.8i CAT	1990 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	7.5
Fuel tank	litres	52. Est: 50

Notes and Illustrations

¹[E 91 RON]: reset coding plug to 91



1796 cm³. 8V