

VAUXHALL/OPEL

Astra/Kadett 1.2

1984 to 1991

Engine & Cooling

Fuel

Ignition

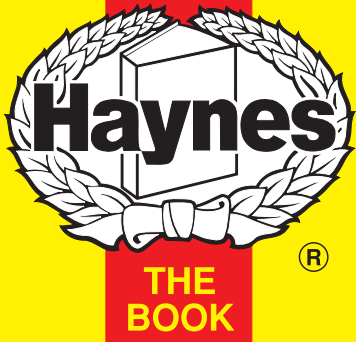
Electrical

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

Astra/Kadett 1.2

1984 to 1991

Type		12SC OHV. 40kW. 15.04
Capacity (cm ³) / number of cylinders		1196 / 4
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	1.5
Oil temperature	°C	60
Valve clearance - inlet	mm	0.15 H
Valve clearance - exhaust	mm	0.25 H
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	91
Radiator cap pressure	bar	1.2 to 1.4

Fuel system

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1984 to 1991

Idle speed - manual [auto]	rpm	900 to 950
Fast idle speed - manual [auto]	rpm	3600 to 4000
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		32 TL 2 276 974
Main jet / needle		117
Injection pressure	bar	_
Pump pressure	bar	0.18 to 0.25
Octane rating	RON	98[R] ¹

Ignition system

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1984 to 1991

Type		Contact breaker - CIS
Ignition coil		Delco Remy
Primary resistance	ohms	1.2 to 1.6
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		AC Delco
Points gap (air gap)	mm	≥0.40
Dwell angle	° (%)	50±3 (56±3)
Condenser capacity	µF	0.17 to 0.23
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ idle ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 to 1 @ 1000
	° Crankshaft @ rpm	15 to 20 @ 3000
	° Crankshaft @ rpm	20 to 24 @ 3800
Vacuum range check	mbar	130 to 255
Maximum vacuum advance	° Crankshaft	12.5 to 16.5
Spark plugs		AC/Champion
Type		CR42CFS / RL82YC
Electrode gap	mm	0.70 to 0.80

Electrical system

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Battery	V / CC / RC	12 / 175 / 130 or 210 / 150
Alternator voltage / full load current / engine rpm		14.5±0.25 / _ / 3500
Starter motor current / voltage - cranking	A / V	360 to 440 / 9 to 13
- locked	A / V	380 to 460 / 8 to 8.2

Running gear

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1984 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	155x13: 165x13: 175/70x13
Estate / Van	Size	155x13: 165x13: 175/70x13
Pressure - front / rear - Saloon	bar	1.8 / 1.6
- Estate / Van	bar	1.8 / 1.8

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		_

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

Torque wrench settings

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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
Main bearings	Nm	62
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	30 + 60° to 80°
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	40

Capacities

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Engine oil & filter	litres	2.75
Gearbox - 4-speed [5-speed]	litres	1.7 [1.8]
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.7
Fuel tank	litres	42. Est: 50²

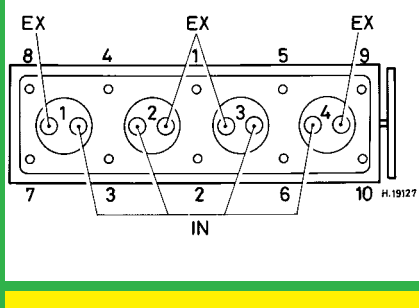
Notes and Illustrations

¹03.85 ►: retard ignition by 3°. 2.90 ►: [E 95 RON]

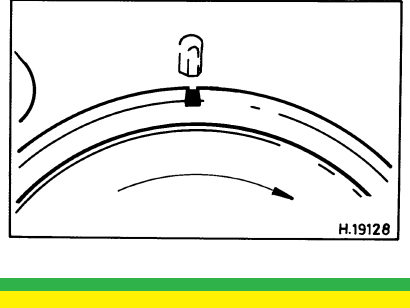
²1986 ►: 52

1: Idle speed

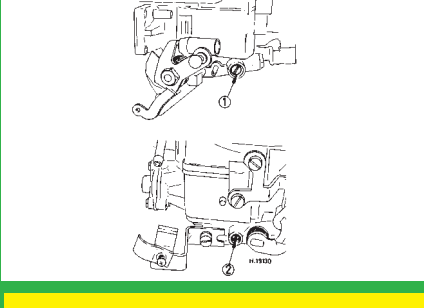
2: CO / Mixture



1196 cm³



1196 cm³



Weber 32 TL