

RENAULT

Espace (J112)

1985 to 1988

Engine & Cooling

Fuel

Ignition

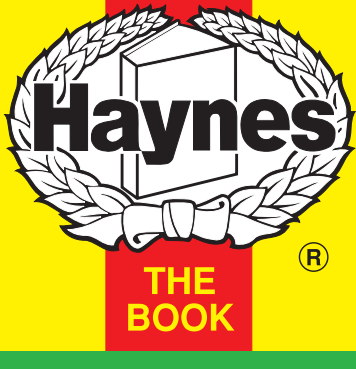
Electrical

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Automotive Technical
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Engine and cooling system

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Type		J6R-C2-34
Capacity (cm ³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	0.8 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.25
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	81
Radiator cap pressure	bar	1.2

Fuel system

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Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
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 DARA
Main jet / needle		132, 140
Injection pressure	bar	_
Pump pressure	bar	0.27 to 0.32
Octane rating	RON	96[E 98 RON]

Ignition system

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Type		AEI
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Renix
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	10±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	RE001
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	8 to 12 @ 850
	° Crankshaft @ rpm	10 to 15 @ 1550
	° Crankshaft @ rpm	26 to 30 @ 4050
Vacuum range check	mbar	300 @ 4550 rpm
Maximum vacuum advance	° Crankshaft	≥7
Spark plugs		AC/Champion
Type		C42CLTS / S279YC
Electrode gap	mm	0.90±0.05

Electrical system

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Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.5 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	2.5 with backing

Tyres		
Saloon	Size	_
Estate / Van	Size	185/70x13: 185/65x14
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	2.4 / 2.1

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.5±0.5 ¹
Camber		+20'±30' N/A
Castor		+3°±30' [86 ►: +3°25'±20']
King pin inclination		+13°±30' N/A

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to 4.0 N/A
Camber		0±30' N/A

Torque wrench settings

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Cylinder head - stage 1	Nm	50
- stage 2	Nm	80
Cylinder head - stage 3	Nm	88 to 98
- stage 4	Nm	_
Big-end bearings	Nm	45 to 50
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	_

Capacities

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Engine oil & filter	litres	6.2
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.3
Fuel tank	litres	65

Notes and Illustrations

¹1986 ►: -4.0±2.0

1: Idle speed 2: CO / Mixture

1995 cm³, 8V

1995 cm³, J6R

Weber DARA