

RENAULT

Master T35 fwd (Rxx2)

1986 to 1996

Engine & Cooling

Fuel

Ignition

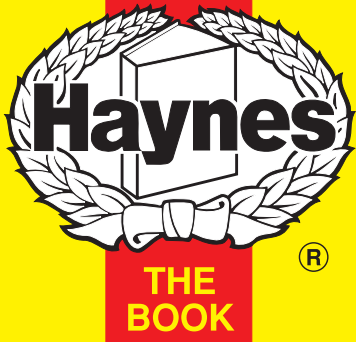
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

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1986 to 1996

Type		J5R-7-18 or J5R-7-28
Capacity (cm ³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	8.1 / _
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	_
Radiator cap pressure	bar	0.8 to 1.2

Fuel system

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Idle speed - manual [auto]	rpm	800±25. 89 ►: 800±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex
Type / ref		35SEIA 823 / 711 / 901A
Main jet / needle		135. 823: 132.5
Injection pressure	bar	_
Pump pressure	bar	0.27 to 0.32
Octane rating	RON	96[R] ¹

Ignition system

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Type		Electronic
Ignition coil		_
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±1 BTDC @ 800±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	RE250
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	10 to 12 @ 750
	° Crankshaft @ rpm	10 to 13 @ 1550
	° Crankshaft @ rpm	37 to 40 @ 4050
Vacuum range check	mbar	0 to 300
Maximum vacuum advance	° Crankshaft	≥8
Spark plugs		Champion
Type		N281YC
Electrode gap	mm	0.90±0.05

Electrical system

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Battery	V / CC / RC	12 / 255 / 85
Alternator voltage / full load current / engine rpm		12.5 to 15.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	9.0 with backing
Rear (min. friction material thickness)	mm	3.0 with backing

Tyres		
Saloon	Size	_
Estate / Van	Size	185x16: 205x16
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	4.0 / 4.1 ²

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-1.2±1.2
Camber		+1°±30'
Castor		+3°30'±30'
King pin inclination		+7°55'±30'. 91 ►: +8°±30'

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+1.2 to -1.2
Camber		0 to +30'

Torque wrench settings

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Cylinder head - stage 1	Nm	88 to 98
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	45 to 50
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	55 to 60
Front hubs	Nm	450
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	160
Spark plugs	Nm	_

Capacities

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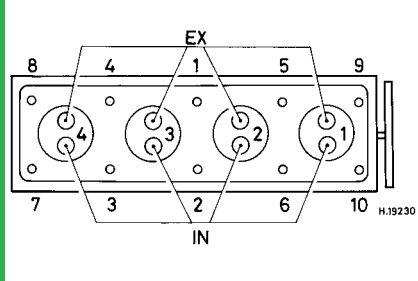
1986 to 1996

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	4.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	14.0
Fuel tank	litres	62

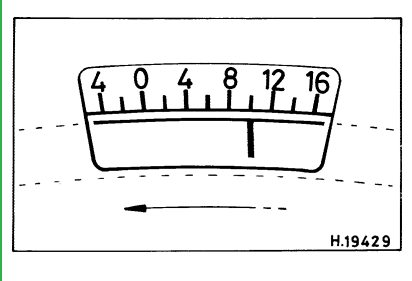
Notes and Illustrations

¹89 ►: [E 95 RON]
²185x15, 3.5t SWB: 3.5 / 4.5. 205x16: 3.5 / 3.5

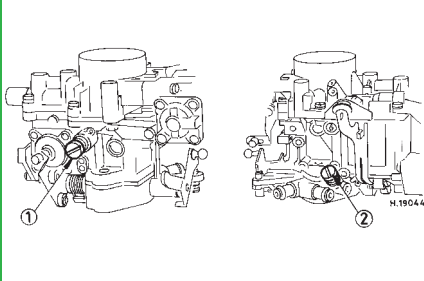
1: Idle speed 2: CO / Mixture



1995 cm³



1995 cm³



Solex 35 SEIA