

RENAULT

21, 1.7i CAT (X48E/F)

1991 to 1996

Engine & Cooling

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Automotive Technical
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Engine and cooling system

21, 1.7i CAT (X48E/F)

1991 to 1996

Type		F3N-7-22 or F3N-7-23 69kW ¹
Capacity (cm ³) / number of cylinders		1721 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	2.0 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.40
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89 to 101
Radiator cap pressure	bar	1.2

Fuel system

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Idle speed - manual [auto]	rpm	800±50. F3N-7-26: 750±50	N/A
Fast idle speed - manual [auto]	rpm	_	
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3	N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200	
CO2 @ idle speed [3000 rpm] - see page VI	%	_	
O2 @ idle speed [3000 rpm] - see page VI	%	_	
Carburettor / fuel injection		Renix	
Type / ref		X48E: MPI. X48F: SPI	
Main jet / needle		_	
Injection pressure	bar	2.5±0.2 ²	
Pump pressure	bar	3.0±0.2	
Octane rating	RON	92[U]	

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	AEI control
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	AEI control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	AEI control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		AC/Champion ³
Type		C41CXLS / N6YC ³
Electrode gap	mm	0.80±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	155x13: 175/70x13: 175/65x14
Estate / Van	Size	175/65x14
Pressure - front / rear - Saloon	bar	2.0 / 2.2
- Estate / Van	bar	2.0 / 2.6

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		0±30'
Castor		+2°±30'
King pin inclination		+11°40'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 5.0
Camber		-40'±10'. 89 ►: -20'±10'

Torque wrench settings

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Cylinder head - stage 1	Nm	30
- stage 2	Nm	70, wait 3 min. Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 123±2°
Big-end bearings	Nm	45 to 50
Main bearings	Nm	60 to 65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 to 55
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	_

Capacities

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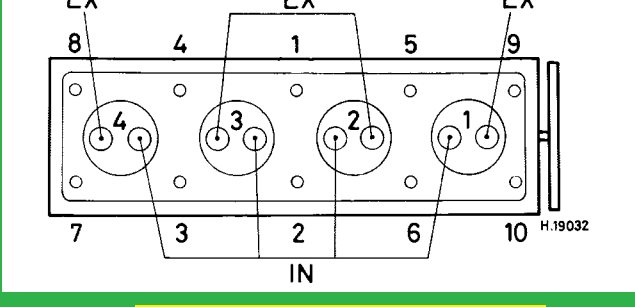
Engine oil & filter	litres	5.2
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	4.0
Final drive	litres	AT: 0.8
Cooling system	litres	6.0
Fuel tank	litres	66

Notes and Illustrations

¹B/K/L48F: F3N-7-26

²X48F SPI: 1.2±0.05

³F3N-7-26: Champion RN9YC



1721 cm³