

Engine & Cooling

Fuel

Ignition

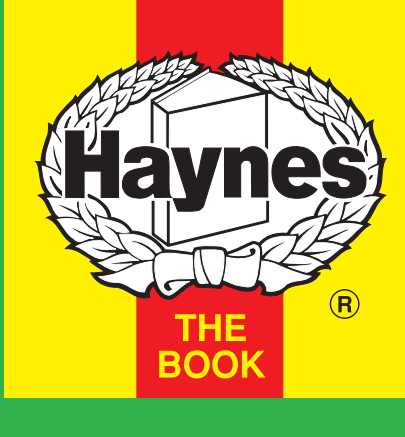
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

21, 2.0 & 4x4 CAT (X48R)

1991 to 1995

Type		J7R-7-40 90kW
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	0.8 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.20 to 0.25
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

21, 2.0 & 4x4 CAT (X48R)

1991 to 1995

Idle speed - manual [auto]	rpm	875±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		Bendix
Type / ref		Renix MPI
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	95[U]

Ignition system

21, 2.0 & 4x4 CAT (X48R)

1991 to 1995

Type		Computerized
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		_
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		Eyquem
Type		FC62LS3
Electrode gap	mm	1.20 N/A

Electrical system

21, 2.0 & 4x4 CAT (X48R)

1991 to 1995

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

21, 2.0 & 4x4 CAT (X48R)

1991 to 1995

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	2.5 with backing¹

Tyres		
Saloon	Size	185/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.0±1.0
Camber		-25'±30'
Castor		+2°30'±30'
King pin inclination		+12°45'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 5.0²
Camber		-20'±10'³

Torque wrench settings

21, 2.0 & 4x4 CAT (X48R)

1991 to 1995

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 80° + 80°
Cylinder head - stage 3	Nm	run for 15 mins.
- stage 4	Nm	cool for 3 hours, then + 20°
Big-end bearings	Nm	45 to 50
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 [65 to 70]
Front hubs	Nm	250
Rear hubs	Nm	160. 4x4: 210
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	_

Capacities

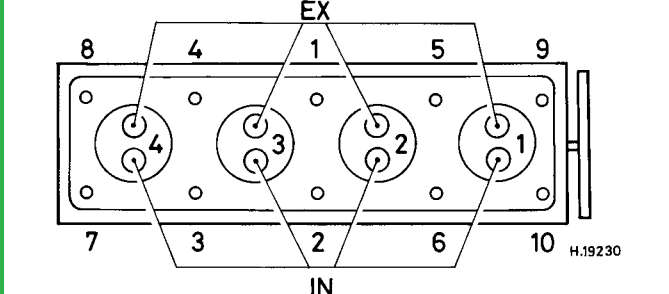
21, 2.0 & 4x4 CAT (X48R)

1991 to 1995

Engine oil & filter	litres	6.2
Gearbox - 4-speed [5-speed]	litres	2.2. 4x4: 3.4
Automatic transmission - refill	litres	_
Final drive	litres	4x4 rear: 1.3
Cooling system	litres	6.8
Fuel tank	litres	66. 4x4: 62

Notes and Illustrations

- ¹ABS: 6.0
- ²4x4: +3.0 to 5.0
- ³4x4: -30'±10'



1995 cm³, 8V