

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemJusty (J12) 1.2i CAT1992 to 1997

Type		SOHC 9V 54kW
Capacity (cm³) / number of cylinders		1189 / 3
Compression ratio / pressure	bar	9.1 / _
Oil pressure	bar	[2.1 to 3.2]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.13 to 0.17
- exhaust	mm	0.23 to 0.27
Firing order		1-3-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	0.74 to 1.03

Fuel systemJusty (J12) 1.2i CAT1992 to 1997

Idle speed - manual [auto]	rpm	700±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	≤33
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Subaru
Type / ref		MPFI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemJusty (J12) 1.2i CAT1992 to 1997

Type		Electronic
Ignition coil		Hitachi
Primary resistance	ohms	0.9 to 1.1
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Hitachi
Points gap (air gap)	mm	[0.30 to 0.40]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ 700±50
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		NGK/Champion
Type		BPR6ES-11 / RN9YC
Electrode gap	mm	1.00 to 1.10

Electrical systemJusty (J12) 1.2i CAT1992 to 1997

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / 50, 55 / 3000
Starter motor current / voltage - cranking	A / V	200 / 8.0
- locked	A / V	400 / 5.0

Running gearJusty (J12) 1.2i CAT1992 to 1997

Brakes -		
Front (min. friction material thickness)	mm	7.5 with backing
Rear (min. friction material thickness)	mm	1.7

Tyres		
Saloon	Size	165/65x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	2.0±1.0
Camber		+40'±1°
Castor		+2°30'±1°
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±0.5
Camber		0±1°

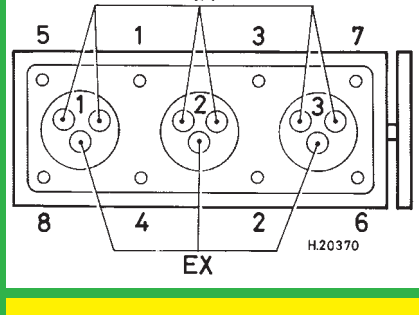
Torque wrench settingsJusty (J12) 1.2i CAT1992 to 1997

Cylinder head - stage 1	Nm	65 to 73 in 3 steps
- stage 2	Nm	_
- stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	39 to 45
Main bearings	Nm	41 to 47
Clutch cover	Nm	9 to 11
Flywheel [driveplate]	Nm	88 to 96
Front hubs	Nm	196
Rear hubs	Nm	147
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	18 to 24

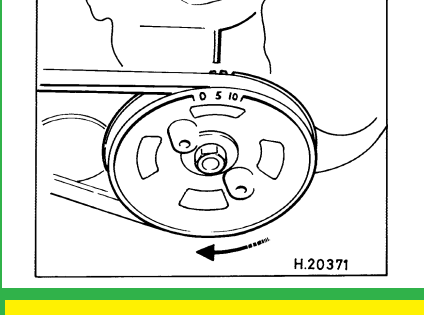
CapacitiesJusty (J12) 1.2i CAT1992 to 1997

Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	3.3
Automatic transmission - refill	litres	3.8 to 4.1
Final drive	litres	Rear: 0.7
Cooling system	litres	4.3
Fuel tank	litres	35

Notes and Illustrations



1189 cm³



1189 cm³