

Engine & Cooling

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Automotive Technical
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Engine and cooling systemImpreza 2.0 Turbo1994 to 1997

Type		DOHC 16V Turbo 155kW
Capacity (cm³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	9.0 / 10.0 to 12.0
Oil pressure	bar	[2.9]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-2-4
No 1 cylinder position		FR
Thermostat opening temperature	°C	76 to 80
Radiator cap pressure	bar	0.75 to 0.98

Fuel systemImpreza 2.0 Turbo1994 to 1997

Idle speed - manual [auto]	rpm	900±100
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		MPI
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	2.5
Octane rating	RON	95[U]

Ignition systemImpreza 2.0 Turbo1994 to 1997

Type		DIS
Ignition coil		Hitachi CM12-100
Primary resistance	ohms	0.63 to 0.77
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	18 BTDC @ 900±100
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
Type		PFR8G
Electrode gap	mm	1.00 to 1.10

Electrical systemImpreza 2.0 Turbo1994 to 1997

Battery	V / CC / RC	12 / 48Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.8 / 75 / _
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearImpreza 2.0 Turbo1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	7.5
Rear (min. friction material thickness)	mm	6.5

Tyres		
Saloon	Size	205/55x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.3 / 2.2
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0.0±3.0
Camber		-25'±30'
Castor		3°5'±1°
King pin inclination		14°5'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0.0±3.0
Camber		-1°10'±45'

Torque wrench settingsImpreza 2.0 Turbo1994 to 1997

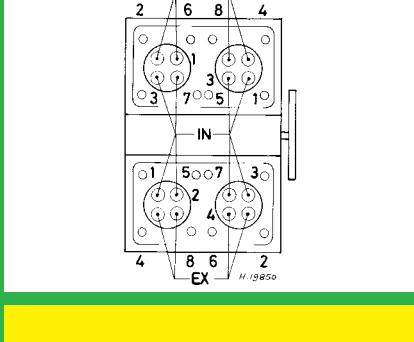
Cylinder head - stage 1	Nm	29
- stage 2	Nm	69, Loosen
- stage 3	Nm	29
- stage 4	Nm	+80 to 90° +40 to 45° ¹
Big-end bearings	Nm	43 to 46
Main bearings	Nm	44 to 50, inner: 23 to 26
Clutch cover	Nm	14 to 17
Flywheel [driveplate]	Nm	69 to 75
Front hubs	Nm	186 to 206
Rear hubs	Nm	186 to 206
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	20 to 29

CapacitiesImpreza 2.0 Turbo1994 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	3.5
Automatic transmission - refill	litres	—
Final drive	litres	Front: 1.2 Rear: 0.8
Cooling system	litres	7.2
Fuel tank	litres	60

Notes and Illustrations

¹further tighten 2 centre bolts: 40 to 45°



1994 cm²