

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemImpreza 2.0i1996 to 1997

Type	SOHC 16V 84kW	
Capacity (cm ³) / number of cylinders	1994 / 4	
Compression ratio / pressure	bar	9.5 / ≥8.3
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	91
Radiator cap pressure	bar	0.90

Fuel systemImpreza 2.0i1996 to 1997

Idle speed - manual [auto]	rpm	800±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	MPFI	
Main jet / needle	—	
Injection pressure	bar	2.50
Pump pressure	bar	2.5
Octane rating	RON	95[U]

Ignition systemImpreza 2.0i1996 to 1997

Type	DIS	
Ignition coil	Hitachi	
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	23±10 BTDC @ 800
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	BKR6E-11	
Electrode gap	mm	1.00 to 1.10

Electrical systemImpreza 2.0i1996 to 1997

Battery	V / CC / RC	12 / 48, 52Ah
Alternator voltage / full load current / engine rpm	14.1 to 14.8 / 75 / 2500	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearImpreza 2.0i1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	7.5 with backing
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	175/70x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber	0±30'	
Castor	3°±1°	
King pin inclination	14°5'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber	-55'±45'	

Torque wrench settingsImpreza 2.0i1996 to 1997

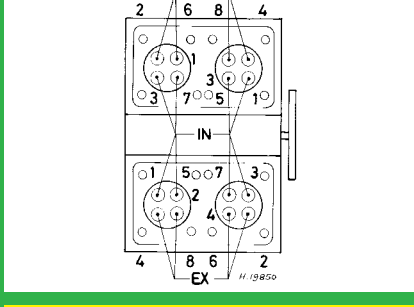
Cylinder head - stage 1	Nm	29
- stage 2	Nm	69
- stage 3	Nm	-180°
- stage 4	Nm	-180° ¹
Big-end bearings	Nm	43 to 46
Main bearings	Nm	44 to 50. Sides: 23 to 26
Clutch cover	Nm	14 to 17
Flywheel [driveplate]	Nm	69 to 75
Front hubs	Nm	186 to 206
Rear hubs	Nm	186 to 206
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	20 to 29

CapacitiesImpreza 2.0i1996 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	3.5
Automatic transmission - refill	litres	7.9
Final drive	litres	Front: 1.2. Rear: 0.8
Cooling system	litres	6.2
Fuel tank	litres	50

Notes and Illustrations

¹Centre bolts: 34. Others: 15. Then all: +90° +90°



1994 cm³, 16V