

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemImpreza 1.6i1993 to 1997

Type	SOHC 16V 66kW	
Capacity (cm ³) / number of cylinders	1597 / 4	
Compression ratio / pressure	bar	9.4 / ≥9.0
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 1.6i1993 to 1997

Idle speed - manual [auto]	rpm	700±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 1.6i1993 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	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	—	
Ignition timing - basic [static	° Crankshaft @ rpm	15±10 BTDC @ 700
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 1.6i1993 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 1.6i1993 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: 165x13
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	-15'±30' 4x4: 0±30'	
Castor	3°5'±1° 4x4: 3°±1°	
King pin inclination	14°20' 4x4: 14°5'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber	-1°45' Hatch: -50'±45'	

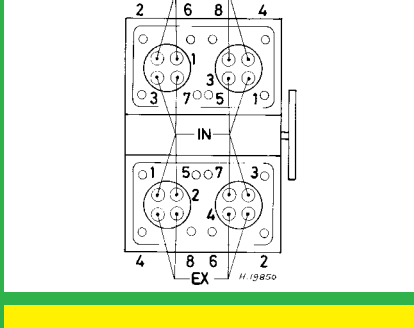
Torque wrench settingsImpreza 1.6i1993 to 1997

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. Side bolts: 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 1.6i1993 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.6. 4x4: 3.5
Automatic transmission - refill	litres	—
Final drive	litres	4x4 rear: 0.8
Cooling system	litres	6.4
Fuel tank	litres	50

Notes and Illustrations



1597 cm³, 16V