

Engine & Cooling

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Automotive Technical
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Engine and cooling systemVivio1992 to 1996

Type		SOHC 8V 32kW
Capacity (cm ³) / number of cylinders		658 / 4
Compression ratio / pressure	bar	10.0 / ≥10.0
Oil pressure	bar	[5.0 to 5.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.13 to 0.17
- exhaust	mm	0.18 to 0.22
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	0.74 to 1.03

Fuel systemVivio1992 to 1996

Idle speed - manual [auto]	rpm	900±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 EFI
Main jet / needle		—
Injection pressure	bar	2.20
Pump pressure	bar	2.2
Octane rating	RON	95[U]

Ignition systemVivio1992 to 1996

Type		Computerized
Ignition coil		Diamond
Primary resistance	ohms	1.08 to 1.22
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	0.20 to 0.25
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	10±3 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 systemVivio1992 to 1996

Battery	V / CC / RC	12 / 28Ah
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / 45 / —
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearVivio1992 to 1996

Brakes -		
Front (min. friction material thickness)	mm	6.5 with backing
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	145/70x12
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.0
Camber		45'±45'
Castor		3°10'±1°
King pin inclination		12°25'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.0
Camber		-10'±45'

Torque wrench settingsVivio1992 to 1996

Cylinder head - stage 1	Nm	25
- stage 2	Nm	30
- stage 3	Nm	Slacken, 20
- stage 4	Nm	+90°
Big-end bearings	Nm	21 to 25
Main bearings	Nm	41 to 47
Clutch cover	Nm	9 to 11
Flywheel [driveplate]	Nm	31 to 37
Front hubs	Nm	196
Rear hubs	Nm	147
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	18 to 24

CapacitiesVivio1992 to 1996

Engine oil & filter	litres	2.7
Gearbox - 4-speed [5-speed]	litres	3.3
Automatic transmission - refill	litres	2.9
Final drive	litres	Rear: 0.8
Cooling system	litres	3.1
Fuel tank	litres	32

Notes and Illustrations

