

Engine & Cooling

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Automotive Technical
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Engine and cooling systemSVX1992 to 1997

Type		DOHC 24V 169kW
Capacity (cm ³) / number of cylinders		3319 / 6
Compression ratio / pressure	bar	10.0 / ≥12.0
Oil pressure	bar	1.0 [2.9]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-6-3-5-2-4
No 1 cylinder position		—
Thermostat opening temperature	°C	91
Radiator cap pressure	bar	0.88

Fuel systemSVX1992 to 1997

Idle speed - manual [auto]	rpm	610±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 SEFI
Main jet / needle		—
Injection pressure	bar	2.50
Pump pressure	bar	2.4 to 2.7
Octane rating	RON	91[U]

Ignition systemSVX1992 to 1997

Type		Direct electronic
Ignition coil		Diamond
Primary resistance	ohms	0.68 to 0.83
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	20±10 BTDC @ 610±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		PFR6G-11
Electrode gap	mm	1.00 to 1.10

Electrical systemSVX1992 to 1997

Battery	V / CC / RC	12 / 48, 55Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.8 / 95 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	980 / 4.0

Running gearSVX1992 to 1997

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

Tyres		
Saloon	Size	225/50x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.3 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber		-25'±45'
Castor		+4°50'±45'
King pin inclination		+16°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber		-40'±45'

Torque wrench settingsSVX1992 to 1997

Cylinder head - stage 1	Nm	30, then 69
- stage 2	Nm	- 180°
- stage 3	Nm	¹
- stage 4	Nm	+ 80 to 90°
Big-end bearings	Nm	43 to 46
Main bearings	Nm	15 + 90 to 110°
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	70 to 75
Front hubs	Nm	167 to 206
Rear hubs	Nm	167 to 206
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18 to 24

CapacitiesSVX1992 to 1997

Engine oil & filter	litres	6.5
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	9.5
Final drive	litres	Front: 1.2. Rear: 0.8
Cooling system	litres	7.5
Fuel tank	litres	70

Notes and Illustrations

¹Stage 3: Tighten bolts 1 and 2 to 34, and bolts 3 to 6 to 20. Tighten all bolts + 80 to 90°, then stage 4