

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemLegacy 2.2 & CAT1989 to 1997

Type	SOHC 16V 100kW	
Capacity (cm³) / number of cylinders	2212 / 4	
Compression ratio / pressure	bar	9.5 / ≥8.8
Oil pressure	bar	1.0 [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	0.88

Fuel systemLegacy 2.2 & CAT1989 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	1.8 to 2.1
Pump pressure	bar	2.4 to 2.7
Octane rating	RON	90[E 91 RON] ¹

Ignition systemLegacy 2.2 & CAT1989 to 1997

Type	Computerized	
Ignition coil	Hitachi CM 12-100	
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	23±10 BTDC @ 800±100
V = Vacuum NV = No Vacuum	V	
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/Champion	
Type	BKR6E / RC7YCC ³	
Electrode gap	mm	0.80

Electrical systemLegacy 2.2 & CAT1989 to 1997

Battery	V / CC / RC	12 / 356 / 99 [/ 490 / 111]
Alternator voltage / full load current / engine rpm	14.1 to 14.8 / _ / 3000	
Starter motor current / voltage - cranking	A / V	370 / 8.0
- locked	A / V	735 / 4.0

Running gearLegacy 2.2 & CAT1989 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	185/70x14
Estate / Van	Size	185/70x14
Pressure - front / rear - Saloon	bar	2.1 / 2.0
- Estate / Van	bar	2.1 / 2.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber	-5'±30'	
Castor	3°5'±1°	
King pin inclination	14°15'±10'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber	-1°. Estate: -55'±45'	

Torque wrench settingsLegacy 2.2 & CAT1989 to 1997

Cylinder head - stage 1	Nm	29
- stage 2	Nm	69
- stage 3	Nm	-180°
- stage 4	Nm	-180° ²
Big-end bearings	Nm	43 to 46
Main bearings	Nm	44 to 50. Side: 23 to 26
Clutch cover	Nm	14 to 17
Flywheel [driveplate]	Nm	78 to 84
Front hubs	Nm	186 to 206
Rear hubs	Nm	167 to 206
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	18 to 24

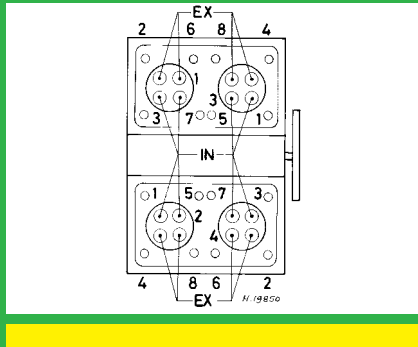
CapacitiesLegacy 2.2 & CAT1989 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	3.5
Automatic transmission - refill	litres	8.3
Final drive	litres	AT: 1.5. Rear: 0.8
Cooling system	litres	6.0
Fuel tank	litres	60

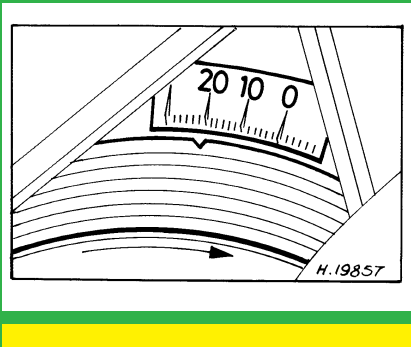
Notes and Illustrations

- ¹CAT: [U]
- ²Centre bolts: 34 Others: 15 Then all: +90° +90°
- ³Cat: BKR6E-11 1.00 to 1.10

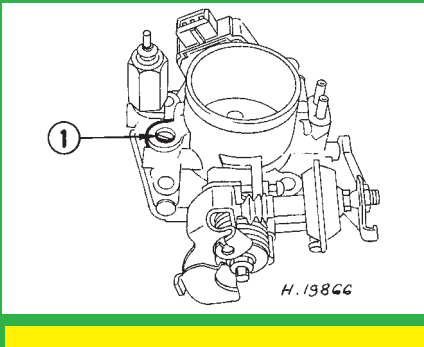
1: Idle speed2: CO / Mixture



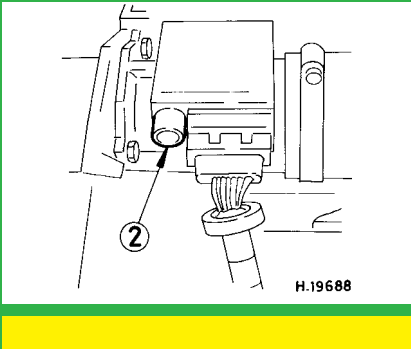
2212 cm³



2212 cm³



MPFi



MPFi