

**Telephone:**  
**Fax:**  
**VAT Registration No.:**

<b>Name:</b>		<b>Manufacturer:</b>	Volvo
<b>Address:</b>		<b>Model:</b>	
		<b>Year:</b>	
		<b>Registration:</b>	
<b>Tel - Private:</b>		<b>Mileage:</b>	
<b>Tel - Business:</b>		<b>Job number:</b>	

Vehicle identification			
Notes		Specified value	Measured value
	No. of cylinders	Type 4/OHV	
	Capacity (Fiscal)	cc 1990	
	Compression ratio	:1 8,7	
	Suitable for unleaded petrol	No	
	Minimum octane rating	RON 100	
	Ignition system	Make Bosch	
	Ignition system	Type SZ	
	Ignition system	Description CB	
	Fuel system	Make Stromberg	
	Fuel System	Type 175 CD	
	Fuel System	Description Carb-VV	

Ignition system			
Notes		Specified value	Measured value
	Ignition coil	Make Bosch	
	Ignition coil	Type 0 221 102 054	
	Ignition coil supply voltage	+ with ballast V 11,0	
	Primary resistance	Ohm 3,2-3,9	
	Firing order	1-3-4-2	
	Distributor (ECM)	Make Bosch	
	Distributor (ECM)	No. JFUX4	
	Contact breaker gap/trigger air gap	mm 0,35	
	Dwell angle	°(%) 59-65 (66-72)	

Tuning and emissions			
Notes		Specified value	Measured value
	Ignition timing	o = without + = with vacuum o	
	Ignition timing - alternative	°Engine/rpm 10/600-800	
	Ignition advance	Without vacuum and basic timing	
	Ignition advance checks	°Engine/rpm 10/1660-1960	
	Ignition advance checks	°Engine/rpm 20/3900-3960	
	Ignition advance checks	°Engine/rpm 22-26/5000	
	Vacuum check	+ = advance o = retard o	
	Vacuum range	°Engine 8-12	
	Vacuum starts	mbar 40	
	Vacuum ends	mbar 173	
	Idle speed	rpm 800	

**Manufacturer:** Volvo

**Model:** 1800 ES 2,0

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**Engine code:** B20F

**Output:** 82 (112) 6000

2008/06/15

**Tuned for:**

**Year:** 1973-75

V5.373-

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	Idle speed - alternative	rpm	AT=700	
	CO level at idle speed - tailpipe	Vol. % CO	2,5	
<b>Spark plugs</b>				
<b>Notes</b>			<b>Specified value</b>	<b>Measured value</b>
	Spark plugs	Original equipment	<b>Bosch</b>	
	Spark plug	Type	<b>W5B</b>	
	Electrode gap	mm	<b>0,7</b>	
	Spark plugs	Make	<b>Bosch</b>	
	Spark plug	Type	<b>W5B</b>	
	Electrode gap	mm	<b>0,7</b>	
	Spark plugs	Make	<b>Champion</b>	
	Spark plug	Type	<b>L82YCC</b>	
	Electrode gap	mm	<b>0,8</b>	
	Spark plugs	Make	<b>NGK</b>	
	Spark plug	Type	<b>BP6HS</b>	
	Electrode gap	mm	<b>0,7</b>	
<b>Fuel system</b>				
<b>Notes</b>			<b>Specified value</b>	<b>Measured value</b>
	Fuel pump delivery pressure	bar	<b>0,15-0,25</b>	
<b>Service checks and adjustments</b>				
<b>Notes</b>			<b>Specified value</b>	<b>Measured value</b>
	Valve clearance -INLET	mm	<b>0,5-0,55 hot</b>	
	Valve clearance -EXHAUST	mm	<b>0,5-0,55 hot</b>	
	Compression pressure	bar	<b>10-12</b>	
	Drive belt size - alternator	mm	<b>9,5x888</b>	
	Drive belt tension - alternator/PAS/AC	mm	<b>10/7,5-10</b>	
<b>Lubricants and capacities</b>				
<b>Notes</b>			<b>Specified value</b>	<b>Measured value</b>
	Engine oil grade - moderate climate	SAE	<b>10W/30</b>	
	Engine oil classification	API/ACEA	<b>SF</b>	
	Engine with filter	litres	<b>6</b>	
	Gearbox 4/5 speed	litres	<b>0,6/1,4</b>	
	Automatic transmission (drain & refill)	litres	<b>8,2</b>	
	Differential rear	litres	<b>1,6</b>	
	Cooling system	litres	<b>12,5</b>	
<b>Tightening torques</b>				
<b>Notes</b>			<b>Specified value</b>	<b>Measured value</b>
<b>Cylinder head</b>				
	Stage 1	Tighten	<b>40 Nm</b>	
	Stage 2	Tighten	<b>80 Nm</b>	
	Stage 3	Tighten	<b>90 Nm</b>	
<b>Other tightening torques</b>				
	Main bearings	Stage 1	<b>60-65 Nm</b>	
	Main bearings	Stage 2	<b>120-130 Nm</b>	
	Big end bearings	Stage 1	<b>35-39 Nm</b>	
	Big end bearings	Stage 2	<b>70-78 Nm</b>	
	Flywheel/driveplate		<b>65-70 Nm</b>	
	Spark plugs		<b>35-40 Nm</b>	
	Road wheels		<b>96-137 Nm</b>	
<b>Starting and charging</b>				
<b>Notes</b>			<b>Specified value</b>	<b>Measured value</b>
	Battery	V/RC(Ah)	<b>12/85 (60)</b>	
	Maximum cranking amps	A	<b>149-182</b>	
	Alternator/Regulator	Make	<b>Bosch</b>	
	Voltage regulator	Type	<b>AD-14V</b>	
	Regulated voltage	V	<b>14,0-15,0</b>	