

## Specifications

## Engine

## Valve clearance

Engine			Cold engine (mm)	hot engine (mm)
B 200-230	adjustment*		0.40	0.45
	inspection*		0.30-0.40	0.35-0.45
B 280	adjustment and inspection	inlet exhaust	0.10-0.15 0.25-0.30	0.15-0.20 0.30-0.35
D 24, D 24 T/TIC	adjustment and inspection	inlet exhaust	0.20 0.40	0.25 0.45
B 16, B 18, B 20, D 19 T	adjustment	inlet exhaust	0.20-0.25 0.40-0.45 B 18 FT: 0.50-0.55	
	inspection	inlet exhaust	0.15-0.25 0.35-0.45 B 18 FT: 0.45-0.55	
B 204/234, D 24 TIC EGR, B 5202/5252, B 5204/5234/5254 B 6254/6304	Hydraulic tappets, cannot be adjusted			

\* Same clearance for inlet and exhaust valves

### Belt tension - camshaft belts

Engine type	Inspection	Adjustment	Tools
B 16/18/20, D 19 T		7.5	999 5506 and 999 5434
D 24, D 24 T/TIC/TIC EGR		12.5	999 5197
B 200/230	Manual adjustment of belts (no adjustment value)		
B 280	Camshaft chain (no adjustment value)		
B 204/234	3.5 - 4.5	Automatic belt tensioning	998 8500
B 5252/5254 (21 mm belt)	3.5 - 4.6		
B 5252 (23 mm belt)	2.7 - 4.2		
B 5204/5234/5254 (23 mm belt)	2.5 - 4.0		
B 6304 (21 mm belt)	3.5 - 4.6		
B 6304 (23 mm belt)	3.0 - 4.0		
B 6254/6304 (28 mm belt)	2.5 - 3.5		

### Belt tension, balancer shaft belt

Engine type	Adjustment cold engine	Adjustment hot engine	Tools
B 204/234	3.8 ± 0.2	4.9 ± 0.2	999 8500

### Belt tension, pump belt

Engine type	Adjustment	Tool
D 24	12.5	999 5197

### Belt tension - auxiliary unit belts - 400

Engine type	Inspection* min. value	Adjustment "run-in" belt	Adjustment new belt
<b>B 16, B 18, B 20, D 19 T (3-track belt) Tool 115 9660</b>			
	20 kg	30-35 kg	45-50 kg
<b>B 16, B 18, B 20, D 19 T (6-track belt) Tool 5434/5436</b>			
Basic variant	4.5 mm	4 mm	3-4 mm
Single variant	3.5 mm	3 mm	2-3 mm
Double variant	3.5 mm	3 mm	2-3 mm

\* If belt tension drops below nominal value, tension should be set at the adjustment value for "run-in" belt. Other engines require no readjustment of belt tension.

## Fuel system

### CO-idle 240 (petrol)

Engine variant	CO-content in %		Idle speed r/s (rpm)
	Adjustment value	inspection value	
B 200 E	1.0	0.5-2.0	15.0 (900)
B 200 F <sup>1)</sup>	cannot be adjusted	0.4-0.8	12.9 (775)
B 230 E	1.0	0.5-2.0	15.0 (900)
B 230 F <sup>1)</sup>	cannot be adjusted	0.4-0.8	12.9 (775)
B 230 FX <sup>1)</sup>	cannot be adjusted	0.4-0.8	12.9 (775)
B 230 FD <sup>1)</sup>	cannot be adjusted	0.4-0.8	12.9 (775)

1) Lambda-sond connected. Measured upstream of catalytic converter.

### Injection timing and idle speed 240 (diesel)

Engine variant	Injection timing (BTDC)		Idle speed r/s (rpm)	
	Adjustment value	Inspection value	Low	High
D 24	0.80	0.77-0.85	12.5 (750)	90 (5400)

### CO-idle 400

Engine variant	CO-content in %		Idle speed <sup>3)</sup> r/s (rpm)
	Adjustment value	Inspection value	
B 18 U, B 20 F	cannot be adjusted	0.4-1.2	Cannot be adjusted
B 16 F, B 18 FP <sup>1)</sup>	cannot be adjusted	0.4-1.2	15.0 (900)
B 18 FT/FTM <sup>1)</sup>	0.7	0.4-1.0	13.3 (800)
B 18 K <sup>2)/KP</sup>	1.5	0.5-2.5	14.2 (850) <sup>4)</sup>
B 18 EP	1.2	1.0-1.4	14.2 (850)
B 18 EP, EVAP	1.2	0.8-3.0	14.2 (850)
B 18 U(M)	1.5	1.0-1.5	Cannot be adjusted
B 20 F(M)	1.5	0.5-1.5	Cannot be adjusted

1) F/FP/FT-engines: Measurement of CO-content upstream of catalytic converter. Use tool 5230.  
AC if fitted is switched off.

2) B 18 K: Inspection must be carried out within 3 minutes after coolant thermostat has opened.

3) Engine cooling fan may not be connected.

4) B 18 K with air conditioning (A/C): 15.8 (950).

### Injection timing and idle speed 400 (diesel)

Engine variant	Injection timing (BTDC)		Idling speed r/s (rpm)	
	Adjustment value	Inspection value	Low	High
D 19 T	Injection pump data		13.7±0.5 (825±25)	70.8±1.7 (4250±100)

### CO-idle 700/940/960

Engine variant	CO-content in %		Idle speed r/s (rpm)
	Adjustment value	Inspection value	
B 200 E	1.0	0.5–2.0	15.0 (900)
B 200 F <sup>1)</sup>	cannot be adjusted	0.4–0.8	12.9 (775)
B 200 G	1.0	0.5–2.0	12.9 (775)
B 204 E	0.8	0.6–1.0	15.0 (900)
B 204 FT <sup>1)</sup>	cannot be adjusted	0.4–0.8	13.3 (800)
B 230 E	1.0	0.5–2.0	15.0 (900)
B 230 F <sup>1)</sup>	cannot be adjusted	0.4–0.8	12.9 (775)
B 230 FB <sup>1)</sup>	cannot be adjusted	0.4–0.8	12.9 (775)
B 230 FD <sup>1)</sup>	cannot be adjusted	0.4–0.8	12.9 (775)
B 230 G	1.0	0.5–2.0	15.0 (900)
B 230 GT	1.0	0.5–2.0	12.5 (750)
B 230 FT <sup>1)</sup>	cannot be adjusted	0.4–0.8	12.5 (750)
B 234 F <sup>1)</sup>	cannot be adjusted	0.4–0.8	14.2 (850)
B 234 G	0.8	0.5–1.1	14.2 (850)
B 280 E	1.0	0.5–2.0	12.5 (750)
B 280 F <sup>1)</sup>	0.6	0.2–1.0	12.5 (750)
B 6254 F	Cannot be adjusted	0.4-0.8	12.5 (750)
B 6254 G	1.0	0.5-2.0	12.5 (750)
B 6304 F <sup>1)</sup>	cannot be adjusted	0.4–0.8	12.5 (750)
B 6304 G	1.0	0.5–2.0	12.5 (750)

1) Lambda-sond connected. Measurement of CO content upstream of catalytic converter

### Injection timing and idle speed 700/940/960 (diesel)

Engine variant	Injection timing mm		Idle speed r/s (rpm)	
	Adjustment value	Inspection value	Low	High
D 24	0.70	0.65-0.73	12.5 (750)	90 (5400)
D 24 T Austria	0.75	0.72-0.80	13.8 (830)	90 (5400)
D 24 TIC	0.90	0.87-0.95	13.8 (830)	90 (5400)
D 24 TIC (EGR)	0.95	0.92-1.00	13.8 (830)	90 (5400)

### CO idle 850

Engine variant	CO content in %		Idle speed r/s (rpm)	
	Adjustment value	Inspection value	–1993	1994–
B 5202/5252 F	cannot be adjusted	0.2–1.0	13.3 (800)*	14.2 (850)*
B 5204/5254 F	cannot be adjusted	0.2–1.0	13.3 (800)*	14.2 (850)*
B 5204/5234 T	cannot be adjusted	0.2–1.0	14.2 (850)*	14.2 (850)*
B 5234 S	cannot be adjusted	0.2–1.0	13.3 (800)*	14.2 (850)*

\* Idle speed cannot be adjusted. Idle speed with activated radiator fan: 1992: 13.7 r/s (825 rpm)  
1993: 13.3 r/s (800 rpm)  
1994–: 14.2 r/s (850 rpm)

## Lubricating system

### Oil, quality designations

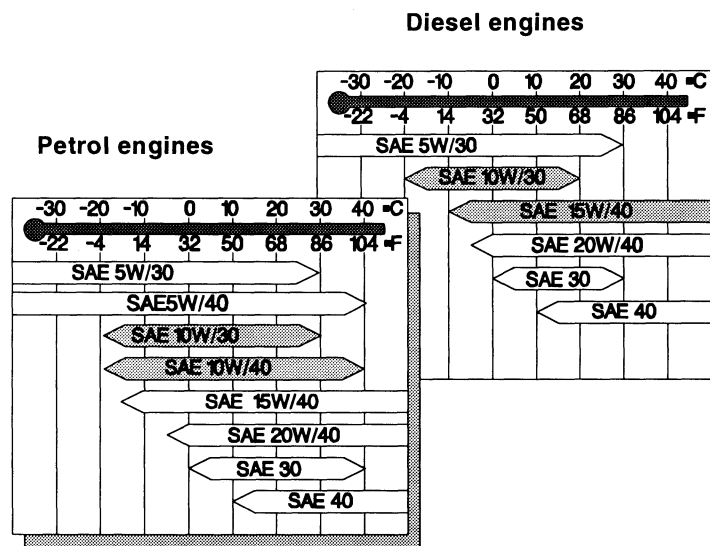
Engine type	API-Service	CCMC	Volvo P/N
Petrol turbo engines	----	Min. class G5	13 81 060-1 (3.85 l)
Other petrol engines	Min. class SG <sup>1)</sup>	Min. class G4	13 81 145-0 (3.85 l)
Diesel engines	Min. class CD <sup>2)</sup>	Min. class D2	13 43 306-5 (1 l)

1) Oils with designation SG/CD meet this requirement.

2) Oils with designations SF/CD and SG/CD meet this requirement.

### Viscosity

Temperature range refers to steady air temperature.



Note! SAE 15W/40 or SAE 20W/40 engine oils are recommended for use in extreme driving conditions which involve high engine oil consumption eg driving in mountainous regions with frequent engine braking or fast motorway driving. Note however the lower temperature limits.

### Oil capacity, incl. oil filter

200/700/900/800		400		
Engine	litres (l)	Model year	Engine	Litres (l)
B 200/230	3.85	-1992	All	5.3
B 204/234	4.00	1993	All*	5.0
B 5202/5252	5.30	1994-	B 16, B 18	4.6
B 5204/5234/5254	5.30		B 20	5.7
B 280	6.00		D 19 T	5.0
B 6254/6304	5.75	* Chassis no. 401000- (440/460) and 585000- (480): 4.6 l.		
D 24	6.00			

## Electrical system

### Spark plugs

Engine variant	Kit number
B 18 E(S), B 18 FT (M) B 20 F	33 44 899-4
B 16 F, B 18 (others)	33 44 473-8
B 200/230 E/G	270 747-9
B 204 E	270 747-9
B 204 FT	270 747-9
B 234 F/G	270 747-9
B 200 F	270 746-1
B 230 FT/GT	270 746-1
B 230 F/FB/FD	270 746-1
B 280 E/F	273 599-1
B 5204	271 603-3
B 5202/5252, B 5254*	271 727-0
B 5204/5234 T	271 766-8
B 6254/6304 F/G	271 636-3

\* For forced driving: Kit number 271 603-3

### Tightening torques, spark plugs, Nm (kpm)

B 16/18/20 .....	25 (2.5)
B 200/230.....	25 (2.5)
B 204/234.....	25 (2.5)
B 280 .....	12 (1.2)
B 5204/5254, B 5202/5252.....	25 (2.5)
B 5204/5234 T.....	25 (2.5)
B 6254/6304 .....	25 (2.5)

### Electrode gap

400 .....	0.8-0.9 mm.
Others .....	0.7-0.8 mm

### Battery

Standing voltage .....	12.0 volt
Start voltage .....	9.5 volt
Electrolyte spec. gravity:	
Fully charged battery .....	1.28
Recharge at .....	1.21

## Drivetrain

## Clutch

**Clutch fork stroke**

400 .....30 ±1 mm

**Play at clutch fork**

240 .....1 - 3 mm

**Note!** On cars with rotating bearings (without return spring) the clutch fork is pushed backwards to check play.

740/940/960/850 have a hydraulic clutch.

## Automatic transmission

**240, 700, 900 .....AW 70/71/72 .....ZF 4 HP 22**

Oil change volume .....approx. 6.0 litres .....approx. 7.5 litres

Oil quality .....Dexron II D/E .....Dexron II D/E

**400 .....ZF 4 HP 14 Q**

Oil change volume .....approx. 3.3 litres

Oil quality .....Volvo oil, P/N 33 44 208-8

.....**CVT**

Oil change volume .....approx. 3.8 litres

Oil quality .....Volvo oil, P/N 33 44 959-6

**Note!** No other oil types may be used!**850 (AW 50-42) (no oil change normally required\*)**

Oil change volume incl. flush .....approx. 6.5 l

Oil quality .....Dexron II E and Ford Mercon  
or Dexron III and Ford Mercon  
(Must meet both specifications at the same time)**960 (AW 30-43) (no oil change normally required\*)**

Oil change volume incl. flush .....approx. 6.5 l

Oil quality .....Dexron II E and Ford Mercon  
or Dexron III and Ford Mercon  
(Must meet both specifications at the same time)

\* Oil change every 75,000 km only for cars in continuous taxi traffic and cars used frequently for towing trailers.

## Manual gearbox (no oil change required)

### 240, 700, 900 (M 45, M 46, M47)

Oil quality\* .....ATF, type F or G.

\* For cars driven in areas where outside temp. seldom drops below  
-10 °C or cars which are driven a lot (eg taxis) we recommend Volvo Thermo  
Oil, P/N 1 161 323-9. **Note!** Do not mix the different oil types!

### 940/960 (M90)

Oil quality .....Volvo P/N 11 61 423-7

### 400 (gearbox/final drive)

Oil quality .....Volvo P/N 33 43 922-5.

**Note!** No other oil types may be used!

### 850 (gearbox/final drive)

Oil quality .....Volvo P/N 11 61 423-7

## Final drive (no oil change required)

Oil quality .....API-GL-5 (MIL-L-2105 B or C)  
Rec. Volvo P/N 11 61 329-6 (0.5 litres).

## Power steering

Oil quality .....ATF, type F or G.







240	km x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	
	Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
	miles x 1000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Tyres</b> - check	Check for damage and wear	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B7
<b>Brake linings*</b> - check	Min. lining thickness: Front 3 mm, rear 2 mm	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B8
<b>Brake hoses</b> - check for leakage/damage					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B9
<b>Brake &amp; fuel lines</b> - check for leakage/damage					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B10
<b>Fuel filter - petrol</b> - replace								x							x							B11
<b>Fuel filter - diesel</b> - drain condensate - replace	<b>Note!</b> Every 7,500 km (5,000 miles)			x			x			x			x			x			x			B12 B13
<b>Final drive</b> - check for leakage	Check level only in case of leakage	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B14
<b>Exhaust system</b> - check condition/ for leakage/anchorage		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B15
<i>Lift the front wheels</i>																						
<b>Steering system/front wheel suspension</b> - check/tighten - check for wear	Incl. check/adjustment of wheel bearings and check of shock absorbers	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	C1 C2
<b>Propeller shaft, support bearing trunnion block</b> - check for wear					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	C3
<b>Rear wheel suspension</b> - check/tighten - check for wear	Incl. shock absorbers	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	C4 C5
* Check disc brake thickness when replacing brake linings! See book 2.																						

240	km x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	
	Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
	miles x 1000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Corrosion protection/paintwork*</b> - check			x		x		x		x		x		x		x		x		x		x	C6
<i>Lower the car</i>																						
<b>Air filter</b> (Petrol engines) - replace	Diesel: every 30,000 km (20,000 miles)				x				x				x				x				x	D1
<b>Spark plugs</b> - replace	See spec. pg. 7. F-engines E/G-engines			x			x			x			x			x			x			D2
<b>Valves</b> - check/adjust clearance		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D2
<b>Top up engine oil</b>	See spec. pg. 6			x				x				x				x				x		D3
<b>Automatic gearbox</b> - top up oil		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D4
<b>Fluid levels - engine compartment</b> - check/adjust	Engine cooling system, brake and power steering reservoirs and washer reservoir				x				x				x				x				x	D5
<b>Coolant</b> - check/top up	Anti-freeze rating/ Corrosion prot.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D6
<b>Battery</b> - check level/attachment		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D6
<b>Distributor</b> - lubricate	Only B 200-230 E			x			x			x			x			x			x			D7
<b>Auxiliary drive belt</b> - check/adjust				x			x			x			x			x			x			D8
				x			x			x			x			x			x			D9

\* Markets with anti-corrosion warranty: Insp. of rust-proofing after 3 and 6 years, see service bulletin no. 1 - 18 - 6

240	km x 1000 Months miles x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300		
		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
<b>Camshaft belt</b> - replace - check/tighten	Petrol  (15,000 km (10,000 miles) after belt replacement)	x				x	x				x	x				x	x					x	D11 D13
<b>Camshaft belt, pump belt, idler roller</b> replace	Diesel								x								x						D14
<b>EGR system</b> - clean	Only B 230 FD						x						x							x			D17
<b>CO idle</b> - check/adjust	Petrol Not F-engines	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D18
<b>Doors, bonnet</b> - lubricate hinges, bonnet lock	Lubricate also door stop, lock lugs and locks	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D19
<b>Power antenna</b> - clean	Rec. at every service																						D21
<b>Brake fluid</b> - replace	Rec. to customer every alternate year *																						

\* If the car is driven in mountainous areas or a moist climate, the brake fluid should be replaced every year.



400	Km x 1000 Months miles x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300		
		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
<b>Brake linings (discs)*</b> - check	Min. thickness 2 mm	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B8</b>	
<b>Brake hoses</b> - check for leakage/damage					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B9</b>
<b>Brake/fuel lines</b> - check for leakage/damage	Incl. fuel filter  <b>Note! Every 7,500 km (5,000 miles)</b>				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B10</b>	
<b>Fuel filter - petrol</b> - replace									x						x							<b>B11</b>	
<b>Fuel filter - diesel</b> - drain condensate - replace			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B11</b>
<b>Exhaust system</b> - check		Check for leakage/anchorage				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B15</b>
<i>Lift the front wheels</i>																							
<b>Steering system/front wheel suspension</b> - check/tighten - check for wear		x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>C1</b> <b>C2</b>	
<i>Lower the front wheels</i>																							
<b>Rear wheel suspension</b> - check/tighten - check for wear		x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>C4</b> <b>C5</b>	
<b>Corrosion protection/paintwork**</b> - check			x		x		x		x		x		x		x		x		x		x	<b>C6</b>	
<i>Lower the car halfway</i>																							
<b>Brake linings (drums)</b> - check	Min. thickness 1 mm				x		x		x		x		x		x		x		x		x	<b>C7</b>	
<i>Lower the car</i>																							
* Check disc brake thickness when replacing brake linings! See book 2.																							
** Markets with anti-corrosion warranty: Inspection of rust-proofing after 3 and 6 years, see service bulletin 1 - 18 - 401.																							

400	Km x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300		
		Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
		miles x 1000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Air filter</b> - replace	Petrol engines			x			x			x			x			x			x			D1	
	Diesel engines		x		x		x		x		x		x		x		x		x		x	D1	
<b>Spark plugs</b> - replace	See spec. pg. 7			x			x			x			x			x			x			D2	
<b>Valves</b> - check/adjust clearance	LPG-fuel: 30,000 km (20,000 miles) interval					x					x					x					x	D3	
<b>Top up engine oil</b>	See spec. pg. 6.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D4	
<b>Automatic gearbox</b> - top up oil				x			x			x			x			x			x			D5	
<b>Fluid levels - engine compartment</b> - check/top up	Engine cooling system, brake and power steering reservoirs and washer reservoir	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D6	
<b>Coolant</b> - check/top up	Anti-freeze rating/ Corrosion prot.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D6	
<b>Battery</b> - check level		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D7	
<b>Auxiliary drive belt</b> - check/adjust belt tension	Multi-track belt	x		x		x		x		x		x		x		x		x		x		D9	
<b>Camshaft/auxiliary unit belt</b> - replace	Standard and multi-track belt						x						x						x			D12	



400	Km x 1000 Months miles x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	
		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Self-diagnostic system</b> - read off fault codes	Engines with FENIX fuel system	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>D15</b>
<b>CO - idle*</b> - check/adjust	Carburettor engines Injected engines (not F-engines)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>D18</b>
<b>Doors, bonnet</b> - lubricate hinges, bonnet lock	Incl. door stopper, lock lugs and locks	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>D19</b>
<b>Power antenna</b> -clean	Rec. to customer at every service																					
<b>Brake fluid**</b> - replace	Should be replaced every alternate year																					

\* B 18 K with AC: Check/adjust idle speed compensator.

\*\* If the car is driven in mountainous areas or a moist climate, the brake fluid should be replaced every year.

## Maintenance service - 700/940/960

<b>700/940/960</b>	Km x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300		
	Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240		
	miles x 1000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
<b>Automatic gearbox lever</b> - check shift lock	Check when driving into workshop	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A1</b>
<b>Parking brake</b> - check/adjust	Check when driving into workshop	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A2</b>
<b>External lighting</b> - check function	Check when driving into workshop	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A3</b>
<b>Wash/wipe on windscreen and headlamps</b> - check/adjust		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A4</b>
<b>Kickdown wire</b> - check/adjust	Not AW 30-43		x		x		x		x		x		x		x		x		x		x	<b>A6</b>	
<b>Crankcase ventilation</b> - clean	Clean nipples and hoses. Replace flame trap. Turbo has no flame trap.						x		x		x		x		x		x		x		x	<b>A7</b>	
<b>Engine</b> - check for leakage	Check from above	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A8</b>
<i>Raise the car</i>																							
<b>Engine/gearbox</b> - check for leakage	Check from underneath. Check gearbox oil level only in case of leakage	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B1</b>
<b>Drain engine oil and replace oil filter</b>	<b>Diesel:</b> Oil change every 7,500 km. Oil and filter replacement every 15,000 km <b>Petrol turbo engine:</b> A first oil change (not filter) at 5,000 km (3,000 miles).	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B2</b>
<b>Automatic gearbox</b> - drain the oil	Not AW 30-43 *				x				x				x				x				x	<b>B3</b>	
*On cars with AW 30-43 in continuous taxi traffic or frequently towing trailers, change oil every 75,000 km (50,000 miles).																							

700/940/960	Km x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300		
		Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
		miles x 1000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Tyres</b> - check	Check damage and for wear	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B7	
<b>Brake linings</b> - check	Min. lining thickness *: Front 3 mm, rear 2 mm	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B8	
<b>Brake hoses</b> - check for leakage/damage					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B9	
<b>Brake/fuel line</b> - check for leakage/damage					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B10	
<b>Fuel filter - petrol</b> - replace								x							x							B11	
<b>Fuel filter - diesel</b> - drain condensate	<b>Note! Every 7,500 km (5,000 miles)</b>																					B12	
- replace				x			x			x			x			x			x			B13	
<b>Final drive</b> - check for leakage	Check level only in the event of leakage	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B14	
<b>Exhaust system</b> - check condition/ check for leakage, anchorage					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B15	
<i>Lift the front wheels</i>																							
<b>Steering system/front wheel suspension</b> - check/tighten - check for wear	Does not apply to 960 Including shock absorbers	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	C1 C2	
<b>Propeller shaft, support bearing, trunnion block</b> - check for wear					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	C3	
<b>Rear wheel suspension</b> - check/tighten - check for wear	Does not apply to the 960 Including shock absorbers	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	C4 C5	
<b>Corrosion protection/paintwork**</b> - check			x		x		x		x		x		x		x		x		x		x	C6	
* Check disc brake thickness when replacing brake linings! For measurement of front lining thickness see the method in book 2.																							
** Markets with anti-corrosion warranty: Inspection of rust-proofing after 3 and 6 years, see SB 1-18-1.																							

700/940/960	Km x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300		
		Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
		miles x 1000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<i>Lower the car</i>																							
<b>Air filter</b> - replace	Diesel 45,000 km (30,000 miles)				x				x				x				x				x	D1	
<b>Spark plugs</b> - replace	See spec. pg. 7. F-engines E/G-engines			x			x			x			x			x			x			D2	
<b>Valves</b> - check/adjust clearance	Not 4-valve engines	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D2	
<b>Top up engine oil</b>	See spec. pg. 6.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D4	
<b>Automatic gearbox</b> - top up oil					x				x				x				x				x	D5	
<b>Fluid levels - engine compartment</b> - check/adjust	Engine cooling system, brake and power steering reservoirs and washer reservoir	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D6	
<b>Coolant</b> - check/top up	Anti-freeze rating/ Corrosion prot.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D6	
<b>Battery</b> - check level		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D7	
<b>Auxiliary drive belts</b> - check/just. - replace belt - grease the tension pulley*	<b>Not</b> B 6254/6304 <b>Only</b> B 6254/6304 <b>Only</b> B 6304 –1994		x		x		x		x		x		x		x		x		x		x	D9 D12 D12	
* Applies only to early model tensioners which can be dismantled.																							
<b>Camshaft belt B 200-230</b> - replace	check the tensioner and lubricate the guide lug (15,000 km (10,000 miles) after belt replacement)					x					x					x					x	D11	
- check/tighten		x					x					x					x					D13	
<b>Camshaft belt/balancer shaft belt B 204-234</b> - replace							x					x					x					x	D11

700/940/960	Km x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300		
		Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
		miles x 1000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Camshaft belt B 6304 (-93)</b> - replace - grease tensioner	Apply the sticker			x			x			x			x			x			x			D12 D12	
<b>Camshaft belt B 6304 (94)</b> - replace						x					x					x					x	D12	
<b>Camshaft belt B 6254/6304 (95)</b> - replace									x								x					D12	
<b>Camshaft belt, pump belt, idler roller</b> - replace	Diesel								x								x					D14	
<b>EGR system</b> - check function - clean	D 24 T - Austria		x		x		x		x		x		x		x		x		x		x	D16 D17	
<b>EGR system</b> - check function	D24 TIC (EGR)			x			x			x			x			x			x			D14	
<b>EGR system</b> - clean	Only B 230 FD/FT (EGR) and B 6254 S (EGR)						x						x						x			D14	
<b>CO idle</b> - check/adjust	Petrol engines Not F-engines	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D18	
<b>Doors, bonnet</b> - lubricate hinges, bonnet lock	Lubricate also door stop, lock lugs and locks	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D19	
<b>Power antenna</b> - clean	Rec. to customer at every service																					D21	
<b>Brake fluid</b> - replace	Rec. to customer every alternate year *																					D21	

\* If the car is driven in mountainous areas or a moist climate, the brake fluid should be replaced every year.

## Maintenance service - 850

<b>850</b>		Km x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	
		Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
		miles x 1000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Automatic gearbox lever</b> - check shift lock	Check when driving into workshop		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A1</b>
<b>Parking brake</b> - check/adjust	Check when driving into workshop Adjust on lift		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A2</b>
<b>External lighting</b> - check function	Check when driving into workshop		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A3</b>
<b>Wash/wipe on windscreen and headlamps</b> - check function/wear	Clean nipples and hoses. Replace flame trap. Turbo has no flame trap.		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>A4</b>
<b>Crankcase ventilation</b> - clean								x			x			x		x			x				<b>A7</b>
<b>Engine/gearbox</b> - check for leakage		Check from above		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>Raise the car</i>																							
<b>Engine/gearbox</b> - check for leakage	Check from underneath. Check transmission level only during leakage		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B1</b>
<b>Drain engine oil and replace oil filter</b>	850 Turbo: A first oil replacement (not filter) at 5,000 km (3,000 miles). <b>Note!</b> Do not reset the service reminder.		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B2</b>
<b>Check/tightening of turbo/exhaust pipe.</b>	Performed at 5,000 km (3,000 miles). See illustration on page 28																						
<b>Driveshaft joints</b> - check for wear								x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B5</b>
- check gaiters			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<b>B6</b>

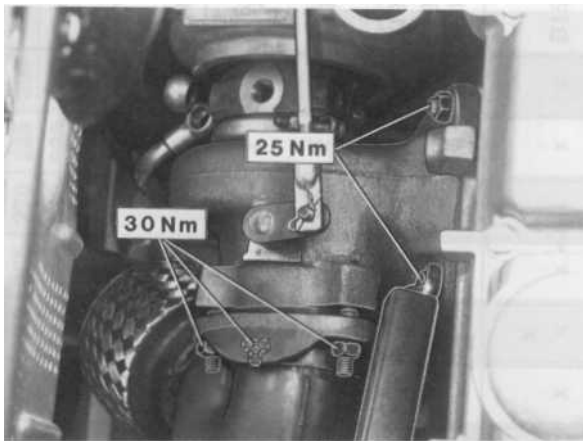
**Note!** For cars with automatic gearboxes which are used in continuous taxi traffic or frequently tow trailers change gearbox oil every 75,000 km.

850	Km x 1000 Months miles x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	
		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Tyres</b> - check	Check for damage and wear	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B7
<b>Brake linings*</b> - check	Check brake discs when changing brake linings!	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B8
<b>Brake hoses</b> - check damage/leakage						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B9
<b>Brake &amp; fuel lines</b> - check damage/leakage						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B10
<b>Fuel filter</b> - replace								x							x							B11
<b>Exhaust system</b> - check condition, for leakage anchorage						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	B15
<i>Lift the front wheels</i>																						
<b>Steering system/front wheel suspension</b> - check for wear	Incl. shock absorbers						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	C2
<b>Rear wheel suspension</b> - check for wear	Incl. shock absorbers						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	C5
<b>Corrosion protection/paintwork**</b> - check			x		x		x		x		x		x		x		x		x		x	C6
<i>Lower the car</i>																						
<b>Air filter</b> - replace	Incl. filter for control unit box. Does not apply to 94-.				x				x				x				x				x	D1
<b>Spark plugs</b> - replace	See spec. pg. 7.			x			x			x			x			x			x			D2
<b>Top up engine oil</b>	See spec. pg. 6.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D4
* Check disc brake thickness when replacing brake linings! See book 2																						
** Markets with anti-corrosion warranty: Inspection of rust-proofing after 3 and 6 years, see SB 1-18-1																						

850	Km x 1000 Months miles x 1000	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	
		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
<b>Fluid levels - engine compartment</b> - check	Engine cooling system, brake and power steering fluid reservoirs and washer fluid reservoir	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D6
<b>Coolant</b> - check/top up	Anti-freeze rating/ Corrosion prot.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D6
<b>Battery</b> - check level/anchorage		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D7
<b>Auxiliary drive belt</b> - replace belt							x						x						x			D10
<b>- grease belt tensioner*</b>				x		x				x			x			x			x			D10
* Only applies if the belt tensioner is of the early model which can be dismantled.																						
<b>Camshaft belt (-93), 21 mm</b> - grease the tensioner - replace belt	Apply the sticker					x					x					x					x	D11
<b>Camshaft belt (94-), 23 mm</b> - replace belt	Apply the sticker					x			x								x					D11
<b>EGR system</b> - clean - inspect	B5252F (EGR)						x						x						x			D16
<b>Doors, bonnet</b> - lubricate hinges		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D19
<b>Service reminder</b> - reset	Does not apply to Yazaki instrument	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	D20
<b>Power antenna</b> - clean	Rec. to customer at every service																					D21
<b>Brake fluid</b> - replace	Rec. to customer every alternate year**																					

\*\* If the car is driven in a mountainous area or moist climate, the brake fluid should be replaced every year.





### Re-torque of turbo/exhaust manifold

- Tighten front exhaust pipe to turbo unit, 30 Nm.
- Tighten turbo unit to exhaust manifold, 25 Nm.