

Section 5 Brakes

Group 51 Wheel brakes

Brake fluid, type		DOT 4 +
Front wheel brake:		
Brake disc (ventilated)		
Outer diameter	mm	280
Thickness, new	mm	26
Must be replaced at min	mm	23
Min brake pad thickness at replacement	mm	23.8
Max lateral runout, floating disc	mm	0.035
On hub	mm	0.04
Max thickness variation	mm	0.008
Wheel cylinder, inner diameter	mm	57
Brake pads (JURID 950)		
Thickness, new	mm	14
Thickness, min	mm	3
Rear wheel brakes, alternative 1, front-wheel drive cars:		
Brake disc (solid)		
Outer diameter	mm	295
thickness, new	mm	9.6
Must be replaced at min	mm	8.4
Min brake pad thickness at replacement	mm	8.9
Max lateral runout, floating disc	mm	0.05
On hub	mm	0.08
Max thickness variation	mm	0.008
Brake pads (Roulund DB 8034)		
Thickness, new	mm	9.4
Thickness, min	mm	2
Wheel cylinder:		
Inner diameter, alt 1	mm	38
Rear wheel brakes, alternative 2, All-wheel drive (AWD), up to and including week 1998-49:		
Brake disc (solid) LUCAS		
Outer diameter	mm	283
thickness, new	mm	10
Must be replaced at min	mm	8

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Group 55 Parking brake

Min brake pad thickness at replacement	mm	8.5
Max lateral runout, floating disc	mm	0.04
On hub	mm	0.06
Max thickness variation	mm	0.008
Brake pads (TEXTAR TX 465)		
Thickness, new	mm	9.4
Thickness, min	mm	2
Wheel cylinder:		
Inner diameter, alt 1	mm	38
Rear wheel brakes, alternative 3, All-wheel drive (AWD), from and including week 1998-50:		
Brake disc (solid) TEVES		
Outer diameter	mm	288
thickness, new	mm	12
Must be replaced at min	mm	10
Min brake pad thickness at replacement	mm	10.5
Max lateral runout, floating disc	mm	0.035
On hub	mm	0.04
Max thickness variation	mm	0.008
Brake pads (Roulund DB 8034)		
Thickness, new	mm	12
Thickness, min	mm	2
Wheel cylinder:		
Inner diameter, alt 1	mm	40
Master cylinder, type ATE tandem:		
Primary cylinder, diameter	mm	23.81
Secondary cylinder, diameter	mm	23.81
Servo cylinder:		
ATE type	inches	1 x 10
Gear ratio		4.5: 1

Group 55 Parking brake

Brake drum:		
Diameter	mm	178
Radial runout, maximum	mm	0.15

Out of round, maximum	mm	0.15
Full power must be maintained:		
After adjustment	notches	3 - 5
When checking, maximum	notches	11
Always check that the wheels run freely after the adjustment is carried out.		

Tightening torques

Mounting screws, front brake calliper	Nm	100
Rear brake calliper	Nm	50
Protective panel, steering arm	Nm	10
Protective panel, stub axle	Nm	25
Brake calliper, sliding pin	Nm	30
Wheels (stud)	Nm	110
Mounting nuts, master cylinder	Nm	25
Mounting nuts, servo cylinder	Nm	25
Bleed nipples, front	Nm	9
Bleed nipples, rear	Nm	5
Brake pipe, unions	Nm	14
Brake hoses to brake calliper	Nm	18

Group 59 Anti-lock brakes (ABS)

Hydraulic pump (ATE Mk 20 IE)		
ABS	Volvo P/N	94 72 968
TRACS	Volvo P/N	94 72 102
STC	Volvo P/N	94 96 439
Control module (ATE Mk 20 IE):		
ABS	Volvo P/N	94 72 969
TRACS	Volvo P/N	94 72 100
STC	Volvo P/N	94 96 440
Power consumption:		
Inlet valves	A	1.75
Return valves	A	3.30
Sensors:		
Front	Volvo P/N	94 96 420
Rear	Volvo P/N	94 72 171
Rear AWD	Volvo P/N	94 96 419
Resistance	Ω	1100 ± 10%
Tightening torques	Nm (ft. lb.)	10 (7)
Pulse wheel:		
Front	Volvo P/N	68 14 502
Rear (Koyo)	Volvo P/N	13 87 941