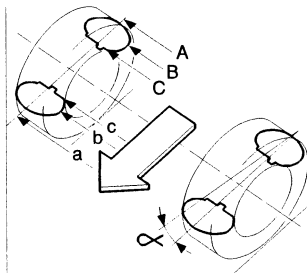


Section 6 Suspension and steering

Group 60 Wheel alignment

	15" wheel	16" wheel	AWD
Turning circle, measured at tyres metres	10.5	10.8	11.5
Turns of the steering wheel	3.2	3.2	3.2

Angle (* can be adjusted)	Check and setting values	Max difference between right and left-hand side
Front:		
Camber	$0^\circ \pm 1.0^\circ$	$0.2'' \pm 0.7''$
Can be adjusted $\pm 1^\circ$ using a conversion kit (see: Service information in Group 6 and SB).		
Caster	$3.35^\circ \pm 1.0^\circ$	1.0°
Toe-in*	$0.33^\circ \pm 0.1^\circ$	0.1°
Rear:		
Camber. Does not apply to AWD	$-1.0^\circ \pm 0.5^\circ$	
Toe-in* Does not apply to AWD	$0.1^\circ \pm 0.2^\circ$	
Camber AWD	$-0.5^\circ \pm 0.75^\circ$	
Thrust angle *	$0^\circ \pm 0.25^\circ$	



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**Conversion table for Toe-in
from degrees to mm (inches)**

	A - a mm (inches)	B - b mm (inches)	C - c mm (inches)
15" wheel	3.6 ± 1.0 (0.14 \pm 0.04)	2.9 ± 0.9 (0.11 \pm 0.04)	2.4 ± 0.7 (0.09 \pm 0.03)
16" wheel	3.6 ± 1.0 (0.14 \pm 0.04)	2.9 ± 0.9 (0.11 \pm 0.04)	2.5 ± 0.8 (0.10 \pm 0.03)
17" wheel	3.6 ± 1.0 (0.14 \pm 0.04)	2.9 ± 0.9 (0.11 \pm 0.04)	2.7 ± 0.8 (0.11 \pm 0.03)

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Group 61 Front suspension

Group 61 Front suspension

Designation	Tightening torques Nm	Dimension
Ball joint - Spring strut	50 ± 12	M10
Ball joint - Link arm		M8
step 1	18	
step 2 angle-tighten	120°	
Control arm - Sub-frame		M12
step 1	65	
step 2 angle-tighten	120°	
Anti-roll bar - Sub-frame	50 ± 12	M10
Anti-roll bar - Link	50 ± 12	M10
Link - Spring strut	50 ± 12	M10
Spring strut - Body	25 ± 6	M8
Shock absorber - Steering arm		M12
step 1	65	
step 2 angle-tighten	90°	
Front wheel hub - Steering arm		M12
step 1	20	
step 2	45	
step 3 angle-tighten	60°	
Front wheel hub - Drive shaft		M22
step 1	120	
step 2 angle-tighten	60°	
Screw joint - Shock absorber	70 ± 15	M14
Shock absorber - Upper bearing	70 ± 15	M14

Group 64 Steering

Steering gear		
Make		TRW, SMI
Turns of the steering wheel lock to lock		
205 tyres		3.2
215 tyres		3.1
225 tyres		2.9
Gear ratios		16.8: 1
Friction torque, measured at input shaft	Nm	0.6 - 1.8
Power steering balance check:		
pump pressure at specified steering shaft torque	MPa	1.2

Steering gear		
torque on steering shaft	Nm	3.0 - 4.0
greatest permitted difference between right and left	Nm	0.7
Lubricants		
Grease	Volvo P/N.	11 61 001
volume	grammes	100
Hydraulic fluid		
ATF oil		G, Dexron II D/E
or power steering fluid	Volvo P/N.	11 61 317
volume	litres	0.8
Power steering pump		
Maximum pressure	MPa	8.3

Designation	Tightening torques Nm	Dimension
Steering wheel - steering column, upper ..	40 ± 10	M12
Airbag unit - Steering wheel	10 ± 2.5	M6
Steering shaft, lower - Steering column, steering gear	20 ± 5	M8
Steering column - Bracket, steering bracket	16 ± 4	M8
Steering gear - Sub-frame, side	50 ± 12	M10
Steering gear - Mounting, centre	80 ± 20	M12
Track rod - Outer ball joint	70 ± 15	M14
Track rod ball joint - Steering arm	70 ± 15	M12
Bracket - Sub-frame	25 ± 6	M8
Limiter, steering gear - Sub-frame	50 ± 12	M10
Limiter - Bracket, power steering pipe ...	25 ± 6	M8
Mounting, centre - Sub-frame	50 ± 12	M10
Stay, steering column - A-post	25 ± 6	M8
Collision protection system, power steering pump - Front mounting plate	25 ± 6	M8

Group 65 Rear suspension

Designation	Tightening torques Nm	Dimension
Rear axle link - Body		M14
step 1	105	
step 2	90°	
Bracket - Body		M12

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Group 6 5 Rear suspension

Designation	Tightening torques Nm	Dimension
step 1	65	
step 2 angle-tighten	60°	
Rear axle link - Trailing arm		M12
step 1	65	
step 2 angle-tighten	120°	
Bushing housing - Transverse arm		M10
step 1	50	
step 2 angle-tighten	120°	
Bushing - Transverse arm	80 ± 20	M12
Shock absorber - Lower mounting	80 ± 20	M12
Shock absorber - Upper bearing	40 ± 10	M10
Shock absorber (Nivomat) - Upper bearing	40 ± 10	M12
Shock absorber (Nivomat) - Upper bearing		M10
step 1	20	
step 2 angle-tighten	90°	
Spring mounting - Spring seat	40 ± 10	M10
Rear wheel hub - Stub axle		M22 x 1.5
step 1	120	
step 2 angle-tighten	30°	
Stub axle - Endplate		M10
step 1	35	
step 2 angle-tighten	60°	
Upper bearing - Body	25 ± 6	M8
Anti-roll bar - Tie plate, left		M10
step 1	50	
step 2 angle-tighten	90°	
Washer, upper spring mounting - Body ...	40 ± 10	M10
Wheel - Hub	100 ± 25	M12
Anti-roll bar - Transverse arm, left		M12
step 1	65	
step 2 angle-tighten	90°	
Anti-roll bar - Transverse arm, right	50 ± 12	M10