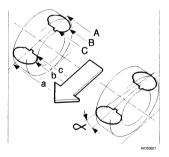
Section 6 Suspension and steering

Section 6 Suspension and steering

Group 60 Wheel alignment

Turning circle, measured at tyres	tres 12
Turns of the steering wheel	. 3.2

Angle (* can be adjusted)	Check and setting values	Max difference between right and left-hand side
Front		
Camber	-0.5° ± 1.0°	0.2° ± 0.7°
Can be adjusted ± 1° using a conversion kit (see Service Manual and Service Bulletin).		
Caster	$3.35^{\circ} \pm 1.0^{\circ}$	1.0°
Toe-in*	0.33° ± 0.1°	0.1°
Rear		
Camber	$-1^{\circ} \pm 0.5^{\circ}$	
Toe-in*	0.1° ± 0.2°	
Thrust angle *	0° ± 0.25°	



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

from degrees to mm (inches)				
	A – a	B – b	С – с	
	mm (inches)	mm (inches)	mm (inches)	
16"	3.6 ± 1.0	2.9 ± 0.9	2.5 ± 0.8	
wheel	(0.14 ± 0.04)	(0.11 ± 0.04)	(0.10 ± 0.03)	
17"	3.6 ± 1.0	2.9 ± 0.9	2.7 ± 0.8	
wheel	(0.14 ± 0.04)	(0.11 ± 0.04)	(0.11 ± 0.03)	
18"	3.6 ± 1.0	2.9 ± 0.9	2.7 ± 0.8	
wheel	(0.14 ± 0.04)	(0.11 ± 0.04)	(0.11 ± 0.03)	

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°	

<u>C70</u> Group 64 Steering

Designation	Tightening torques Nm	Dimension
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 or SMI		
Turns of the steering wheel lock to lock	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		
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		

Group 65 Rear suspension

			<u>C70</u>	
 0.5	 	 		

Steering gear		
volume	litres	0.8
Power steering pump		
Maximum pressure	MPa	8.3 or 10.0

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
Strut, steering column - Strut, 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 angle-tighten	90°	
Bracket - Body		M12
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°	

<u>C70</u> Group 65 Rear suspension

Designation	Tightening torques Nm	Dimension
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
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		M12
step 1	65	
step 2 angle-tighten	90"	
Anti-roll bar - Transverse arm, right	50 ± 12	M10