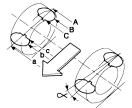
Section 6 Suspension and steering Group 60 Wheel alignment

General

Turning circlemetres Steering wheel turns	
Wheel alignment, front	
Caster 15" wheel 16" wheel	
Camber difference between right and left sidesmax.	
Toe-inmm	18' ± 8'

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

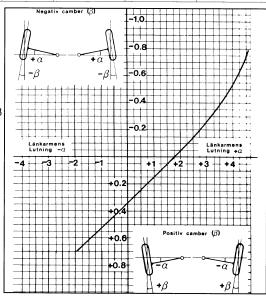


A - aB - bC - c15" wheel $3.2 \pm 1.4 \text{ mm}$
 $0.12 \pm 0.05"<math>2.3 \pm 1.2 \text{ mm}$
 $0.09 \pm 0.05"<math>2.1 \pm 0.9 \text{ mm}$
 $0.08 \pm 0.04"16" wheel<math>3.3 \pm 1.5 \text{ mm}$ $2.4 \pm 1.3 \text{ mm}$ $2.2 \pm 1.0 \text{ mm}$

Wheel alignment, rear (Multi link)

Toe-in	
in degrees	2' ± 3'
in mm	0.5 ± 0.8

Camber see diagram



Group 61 Front wheel suspension

Tightening torque	Nm	ft. Ib
Front axle member - Body	95	70
Control arm - Front axle member	90	66
Control arm - Ball joint	70	52
Control arm stay - Control arm	100	74
Control arm stay - Body	120	89
Anti-roll bar link - Control arm	90	66
Ball joint - Spring strutangle-tighten	30 + 90°	22 + 90°
Steering rod - Steering arm	60	44
Upper bearing - Body	50	37
Upper bearing - Shock absorber	70	52
Front wheel hub - Stub axleangle-tighten	100 + 45°	74 + 45°

Group 64 Steering

Steering gear			
Make	CAM GEAR	ZF	κογο
Number of turns lock to lock	3.5	3.5	3.5
Ratio	16.9:1	16.9:1	16.9:1
Clearance between			
pre-tensioning piston and covermm	0.05 - 0.12	0.025 - 0.05	
Frictional torque,			
measured on input shaftNm			
	(0.4 - 1.25)	(0.4 - 1.55)	(0.4 - 1.25)
Checking servo balance:			
pump pressure when measuring steering wheel torqueMpa	1.0	1.2	1.2
torque on steering wheelNm(ft lb)			1.2 3.5 - 4.5
	(31 - 40)		(31 - 40)
max. deviation between right and left locksNm(ft lb)		. ,	1.0(0.7)
Lubricant, typeGrease, Volvo P/N	11 61 001-1	11 61 001-1	11 61 001-1
quantitygrams	100	100	
Hydraulic oil, ATF-oiltype	F, G,	F, G,	F, G,
		Dexron D/E	Dexron D/E
quantitylitres	0.8	0.8	0.8
Servo pump			
Max. pressureMpa		9.3 - 10.0	

Tightening torque, steering	Nm	ft. Ib
Steering worm	34	25
Steering shaft knuckles, bolts		18
Steering gear - Front axle member	35 + 150°	30 + 150°
Steering rod - Outer ball joint	70	52
Steering arm -Outer ball joint	60	44
Steering module, torx-screws	6	4.4
Sound-proofing /Knee bolster	8	6
Steering column in pass. comp	24	18
Steering shaft - Steering column	24	18
Lever for steering wheel angle adjustment	3	2.2
Hoses to steering gear, pressure	30	22
return	25	18

Group 65 Rear wheel suspension

Tightening torque	Nm	ft. Ib
Control arm lower - Suspension upright angle-tighten	50 + 90°	37 + 90°
Control arm lower - Rear axle memberangle-tighten	50 + 90°	37 + 90°
Stud - Body	70	52
Support arm bracket - Body, nutangle-tighten	70 + 90°	52 + 90°
Support arm bracket - Body, bolt	50	37
Support arm bracket - Support arm anchorage angle-tighten	125 +120°	92 +120°
Support arm - Suspension uprightangle-tighten	60 + 90°	44 + 90°
Control arm upper - Suspension upright	120	89
Control arm upper - Rear axle member, front angle-tighten	70 + 60°	52 + 60°
Control arm upper - Rear axle member, rear	90	66
Track rod - Suspension upright	90	66
Track rod - Rear axle member	70	52
Rear axle member, front - Bodyangle-tighten	70 + 60°	52 + 60°
Rear axle member, rear - Bodyangle-tighten	70 + 60°	52 + 60°
Final drive, front - Rear axle member	160	118
Final drive, rear - Rear axle member	160	118
Bracket wire - Rear axle member	25	18
Shock absorber - Support arm	60	44
Shock absorber - Body	90	66
Wheel nut, driveshaft - Driveshaftangle-tighten	140 + 60°	103 + 60°
Buffer - Suspension upright	25	18
Protector plate - Rear suspension upright	25	18
Brake caliper - Suspension upright	60	44