

Chapter 10

Suspension and steering systems

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Specifications

General

Power steering fluid type	See Chapter 1
Station wagon rear shock absorber nut-to-stud end distance	15.5 to 16.0 mm

Torque specifications

Nm

Front suspension

Steering knuckle-to-strut bolt	
Step 1	85
Step 2	100
Step 3	Tighten an additional 90 degrees
Balljoint clamp bolt (VT Series I)	
Step 1	70
Step 2	Tighten an additional 30 to 40 degrees
Balljoint stud nut (VT Series II to VZ models)	50 to 70
Crossmember to frame bolts	120 to 125*

Torque specifications (continued)

Nm

Front suspension (continued)

Lower control arm inner pivot bolt	
VT to VY models	95 to 100*
VZ models	103*
Shock absorber/coil spring assemblies	
Upper strut-to-body nut	50 to 60**
Upper strut bearing retaining nut	70 to 85**
Stabiliser bar clamp bolts	24 to 30
Tension rod nuts	
Front	140 to 155*
Rear	95 to 110*
Hydraulic strut damper nuts	20 to 26

Rear suspension

Lower control arm bolts	95 to 105
Shock absorber	
Station wagon upper shock absorber mounting plate bolts	42 to 50
Lower nuts (all)	105 to 125
Stabiliser bar	
Link-to-control arm nut	90 to 105
Clamp bolts	18 to 26

Steering

Steering gear-to-crossmember bolts	
VT models	50 to 85
VZ models	
Step 1	60
Step 2	Tighten an additional 40 to 50 degrees
Power steering pump bolts/nuts	
3.8 litre V6 models	30 to 40
3.6 litre V6 models	20 to 35
5.0 litre V8 models	35 to 65
5.7 litre Gen III V8 and 6.0 litre Gen IV V8	20 to 35
Front hub bolts	100 to 115
Tie-rod end castle nuts	50 to 85
Steering shaft U-joint coupling bolt/nut	23 to 30
Steering wheel bolt	40 to 50
Horn pad and airbag module screws (VT and VX models)	10 to 14

* New bolts must be used on VY and VZ models

** New bolts must be used on all models