

31 11 Front axle support

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Front axle support, front to body	F39 / F45 / F46 / F48 / F49 / F52	M12	Renew screw.	108 Nm
2AZ Rear end of front axle support to body	F39 / F45 / F46 / F48 / F49 / F52	M14	Renew screw.	175 Nm
3AZ Adapter, front axle support to front axle support	F39 / F45 / F46 / F48 / F49 / F52			100 Nm

3111 Overview of tightening torques

Adapter, front axle support to front axle support		
	Tightening torque	100Nm
Front axle support, front to body		
M12 screw Renew screw.	Tightening torque	108Nm
Rear end of front axle support to body		
M14 screw Renew screw.	Tightening torque	175Nm
Ride height sensor holder to front axle support		
M6	Tightening torque	8Nm

31 12 Axle guide and struts

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Wishbone to swivel bearing	F39 / F45 / F46 / F48 / F49 / F52	M10	Exclusively use the screw to tighten! Renew screw and nut.	60 Nm
2AZ Wishbone to front axle support	F39 / F45 / F46 / F48 / F49 / F52	M12	Tighten in normal position! Renew screw. Jointing torque Angle of rotation	100 Nm 90 °
3AZ Holder, wishbone rubber mount, to front axle support	F39 / F45 / F46 / F48 / F49 / F52	M12	Renew screws. Observe installation position of the screws - different lengths!	100 Nm
4AZ Holder, wishbone rubber mount, to body	F39 / F45 / F46 / F48 / F49 / F52	M10	Renew screws. Jointing torque Angle of rotation	56 Nm 90 °

3112 Overview of tightening torques

Holder, wishbone rubber mount, to body

M10 screw
Renew screw.

Jointing torque

56Nm

Angle of rotation

90°

Wishbone to swivel bearing

M10
Exclusively use the screw to tighten!
Renew screw and nut.

Tightening torque

60Nm

31 21 Wheel Bearings and Steering Knuckle

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Wheel bearing to swivel bearing	F39 / F45 / F46 / F48 / F49 / F52	M12x1.25	Renew screws. Jointing torque Angle of rotation	120 Nm 90 Å°

31 31 Spring Struts

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Spring strut support bearing to body	F39 / F45 / F46 / F48 / F49 / F52	M8	Renew screws. Jointing torque Angle of rotation	30 Nm 90 °
2AZ Spring strut support bearing to spring strut shock absorber	F39 / F45 / F46 / F48 / F49 / F52	M12	Shock absorber basic version! Renew nut.	56 Nm
	F39 / F45 / F46 / F48 / F49 / F52	M14	EDC shock absorber! Renew nut.	45 Nm
3AZ Spring strut shock absorber to swivel bearing	F39 / F45 / F46 / F48 / F49 / F52	M10	Renew screw and nut. Jointing torque Angle of rotation	44 Nm 90 °

31 35 Anti-roll bar

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Anti-roll bar link to anti-roll bar	F39 / F45 / F46 / F48 / F49 / F52	M10	Renew nut.	56 Nm
2AZ Anti-roll bar link to spring strut shock absorber	F39 / F45 / F46 / F48 / F49 / F52	M10	Renew nut.	56 Nm
3AZ Retaining bar, stabiliser, to front axle carrier	F39 / F45 / F46 / F48 / F49 / F52	M8	Renew screws.	28 Nm

3135 Overview of tightening torques

Anti-roll bar link to anti-roll bar		
M10 Renew nut.	Tightening torque	56Nm

31 60 Output shaft

Tightening Torques

	Type	Thread	Tightening specifications	Torque
1AZ Output shaft bearing to engine block	F39 / F45 / F46 / F48 / F49 / F52	M10		38 Nm
2AZ Output shaft to wheel bearing	F39 / F45 / F46 / F48 / F49 / F52	M16	Replace the collar bolt. Jointing torque Angle of rotation	210 Nm 90 Å°
3AZ Support tube on transfer box	F39 / F45 / F46 / F48 / F49 / F52	M8x35		19 Nm

3160 Overview of tightening torques

Intermediate shaft to transfer box			
M8x35		Tightening torque	19Nm
Output shaft bearing to engine block			
M10		Tightening torque	38Nm
Output shaft to wheel bearing			
M16 Replace the collar bolt.		Jointing torque	210Nm
		Angle of rotation	90°

31 operating fluid overview

Transmission oil

Technically suitable front axle transmission oils

[Main group 31](#)