

31 12 Control Arms and Struts

	Type	Thread	Tightening specification	Measure
1AZ Tension strut to front axle support	E12, E24 / until 5.82		tighten in normal position	80 Nm
	E23		tighten in normal position	135 Nm
	E39, E52		tighten in normal position	110 Nm
	E53		Replace screw; tighten in empty weight or normal position	165 Nm
	E83		Replace screw; tighten in normal position Jointing torque Torque angle	 165 Nm 90 ± 15 °
	E60 / E61 / E63 / E64 / E65 / E66 / E67		Replace screw / nut; tighten in empty weight or normal position Jointing torque Torque angle	 100 Nm 90 ± 15 °
	E87		Replace screw / nut tighten in normal position Jointing torque Torque angle	 68 Nm 90 ± 15 °
2AZ Control arm to front axle support	E24 / from 5.82, E28, E31, E32, E34, E38, E39 / 8 cyl.		tighten in normal position	77.5 Nm
	E39 / 6 cyl., E52		tighten in normal position	110 Nm
	E12, E21, E23, E24 / until 5.82		tighten in normal position	85 Nm

	E53 / E60 / E61 / E63 / E64 / E65 / E66 / E67 / E83		Replace screw / nut; tighten in empty weight or normal position	
			Jointing torque	100 Nm
			Torque angle	90 ± 15 °
	E87		Replace screw / nut tighten in normal position	
			Jointing torque	68 Nm
			Torque angle	90 ± 15 °
3AZ Control arm (ball joint) on front axle support	E30			85 Nm
	E46, E36			90 Nm
	E30 / 325iX			100 Nm
	E85	M14x1.5	Replace nut	80 Nm
4AZ Control arm to spring strut	E21, E30			65 Nm
5AZ Control arm to pivot mount/spring strut	E30 / 325iX			85 Nm
	E30 / 325iX	Polystop nut		93 Nm
	E34 / 525ix, E83			80 Nm
6AZ Control arm on steering knuckle/swivel bearing	E36, E46, E85		Replace nut	65 Nm
	E38			93 Nm
	E39, E53, E52, E67, E83			80 Nm
	E60 / E61 / E63 / E64 / E65 / E66 / E87			165 Nm
7AZ Control arm holder to engine carrier	E30			42 Nm
	E36			47 Nm
	E46		Replace screws	59 Nm
	E85	M10 10.9	Replace screws	56 Nm
8AZ Ball joint for control arm to front axle carrier				

	E34 / 525ix, E46 / Four Wheel Drive			77 Nm
9AZ Control arm to ball joint	E34 / 525ix, E46 / Four Wheel Drive			80 Nm
10AZ Control arm holder to front axle support	E34 / 525ix			47 Nm
	E46 / Four Wheel Drive		Replace screws	59 Nm
11AZ Pressure strut to body	E24 / from 5.82, E28		tighten in normal position	130 Nm
12AZ Traction strut on tie rod lever/steering knuckle/swivel bearing	E24 / from 5.82, E28, E31, E32, E34, E38			93 Nm
	E39			80 Nm
13AZ Pressure strut to connecting pipe/front axle support	E31, E32, E34, E38, E39		tighten in normal position	127 Nm
14AZ Pressure strut to cruciform reinforcement	E31		tighten in normal position	127 Nm
15AZ Connecting pipe to body	E31, E32, E34			127 Nm
16AZ Connecting pipe support to body	E31, E32, E34			59 Nm
17AZ Connecting pipe to trailing spring mount	E24 / from 5.82, E28			60 Nm
18AZ Leading strut to tie rod arm	E23			85 Nm
19AZ Tension strut on steering knuckle/swivel bearing	E39, E52			80 Nm
	E60 / E61 / E63 / E64 / E65 / E66 / E87			165 Nm
	E67			80 Nm
20AZ Guide joint to tension strut	E53, E83			80 Nm
21AZ Guide joint to swivel bearing	E53, E83		Replace screws	60 Nm