

Specifications

Air Suspension - General Specification

Item	Specification
Ride height:	
Off road	55 mm (2.1 in) above standard
Access - reselectable whilst vehicle is moving	50 mm (1.9 in) below standard
Trim height	Configured using T4 plus special tools
Height sensors:	
Location	4 per vehicle - one sensor for each wheel
Height sensor arm colour coding:	
Left hand side, front and rear	WHITE
Right hand side, front and rear	BLACK
Height sensor operating voltages:	
Supply voltage	5 volts - supplied by air suspension ECU
Output voltage	Left hand front and right hand rear - Decreases to 0.5 volts with bump travel. Right hand front and left hand rear - Decreases to 4.5 volts with bump travel
Spring/damper modules:	
Type	Guided air spring surrounding twin tube damper
Pressures:	
Normal - Front	800 to 1000 kPa (8.0 to 10.0 bar) (116.0 to 145.0 lbf/in ²)
Normal - Rear	500 to 800 kPa (5.0 to 8.0 bar) (72.5 to 116.0 lbf/in ²)
Burst pressure	3500 kPa (35 bar) (507.5 lbf/in ²)
Maximum spring pressure - Full bump at gross vehicle weight	Approximately 2700 kPa (27 bar) (391.5 lbf/in ²)
Air compressor:	Supplied with air drier, electrically switched, pilot operated exhaust valve and double temperature sensors
Controlled by	ECU
Maximum pressure	1680 kPa (16.8 bar) (243.6 lbf/in ²)
Air reservoir:	
Volume	9 litres (0.31 cu.ft)
Working pressure	1750 kPa (17.5 bar) (253.75 lbf/in ²)
Maximum operating pressure	2300 kPa (23 bar) (333.5 lbf/in ²)
Reservoir valve block	Incorporates pressure sensor to monitor spring and air reservoir pressures
Valve blocks:	
Front	2 corner valves, 1 cross link valve - all mounted on front bumper armature
Rear	2 corner valves, 1 cross link valve - all mounted on left hand rear spring tower

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Gap between underside of the toe link rubber boot and the chassis bracket	12.0 mm (0.473 in)

Torque Specifications

Description	Nm	lb-ft

Air suspension compressor bolts	10	7
Air suspension compressor lower cover bolts	10	7
Voss connector to the front solenoid valve block	2.5	1.7
Voss connector to the front and rear air springs	3.5	2.6
Voss connector to the rear solenoid valve block	2.5	1.7
Voss connector to the air suspension reservoir	5	4
Voss connector to the air suspension reservoir solenoid valve block	2.5	1.7
Air suspension control module bolt	10	7
Air suspension reservoir bolts	23	17
* Stabilizer bar link nuts	115	85
Toe link bolt	175	129
Toe link inner ball joint retaining nut	133	98
Toe link nut	103	76
Toe link adjustment locking nut	130	96
Lower front arm camber adjusting bolt	275	203
Lower arm rear castor adjusting bolts	275	203
Track rod end locking nuts	53	39
Rear camber adjusting bolts	133	98
Front and rear air spring/shock absorber to the suspension turret nuts	63	46
Front and rear air spring/shock absorber to the lower suspension arm nut and bolt	300	221
* Front and rear air spring/shock absorber top nut	98	72
Heat shield bolts	10	7
*+ Halfshaft nut	350	258
Wheel speed sensor bolt	10	7
Brake disc dust shield bolts	10	7
Wheel hub bolts	115	85
* Lower arm ball joint retaining nut	115	85
* Tie-rod end ball joint	70	52
Suspension height sensor Torx bolts	2.2	1.5
Road wheel nuts	140	103

* New nut must be fitted + Stake nut on completion of tightening