7 May 2024

BPW Axles and Air Suspension First Service Inspection

we think transport

Trailer VIN Number:	Trailer Owner:

First Service to be performed after entering into service
- within 2 weeks of the first journey under load, between 1000km and 5000 km.

This checklist is required for warranty registration

	Service Requirement		Tightening Torques use a calibrated torque wrench	Tick	Comments
BPW AIR SUSPENSION	***U-bolts***				
	Welded spring seats	M24 (SW 36)	650 Nm (605 - 715 Nm)		
	Clamped spring seats - when servicing	M22 (SW 32)	550 Nm		
	Spring Pivot bolts	M24 (SW 36)	650 Nm (605 - 715 Nm)		
	- re-torque at ride height with brakes released	M30 (SW 46)	900 Nm (840 - 990 Nm)		
	Shock absorber fastenings	M24 (SW 36)	420 Nm (390 - 460 Nm)		
	Airbag fastenings				
	Top collar nuts	M12 (SW 17)	66 Nm		
	Bottom screws	M16 (SW 22)	230 Nm		
	Central screw	M16 (SW 22)	300 Nm		
	Axle Lift - 2 sided				
	Diaphragm Cylinder - Type 36 for single wheels	M16 (SW 24)	180 - 210 Nm		
	Diaphragm Cylinder - Type 44 for dual wheels	M20 (SW 30)	350 - 380 Nm		
	Hexagon screw	M12 (SW 17)	75 Nm		
	Hexagon screw - Supporting arm	M16 (SW 22)	230 Nm		
	Bolt-on hangers				
	Hanger to chassis mounting bolts	M16 (SW 24)	260 Nm (240 - 285 Nm)		
	Top gusset bolts (3 to 4 bolts)	M16 (SW 24)	260 Nm (240 - 285 Nm)		
	Bottom gusset bolt connected to pivot bolt head	M18 (SW 27)	420Nm (390 - 460 Nm)		
	Check operation of the airbag Pneumatic system and that it is piped correctly. Check height control valve linkage				
	Check ride height on axle fitted with levelling valve. Re-set if necessary to manufacture's recommendation. Ensure trailer air supply is connected and brakes are released.				
	Check tracking plates are welded to spring seats (if fitted).				
BPW Axles	Attachment nuts for brake cylinder	M16 (SW 24)	180 - 210 Nm		
	Lock nut for slack adjuster	M22 x 1.5 (SW 32)	80 - 90 Nm		
	Wheel nuts - after first run under loaded conditions, and likewise after each wheel change	M22 x 1.5 (SW 32)	630 Nm (600 - 660 Nm)		
	Check hub bearing play. There must be no play. Adjust if necessary.				
	Booster fitment - correct lever length holes used according to load sensing data plate				
	Check brake adjustment. Adjust if necessary - 10 - 15% of the effective slack adjuster length.				
	With disc brake axles: Check that the brake caliper brake adjuster cap is in place.				
	Fit new cap if reqiured.				
	With disc and drum brake axles: Check that the lower plastic drain plugs have been removed from the BPW brake boosters.				

Service provided by (company):		Mechanic:	Date:
Address:		Registration number:	Trailer builder:
Trailer type:		Kilometers Travelled:	Job card number:
			Next Service Date:

Axle serial numbers (located on axle number plate:	
1:	2:
3:	4:
5:	6:

Comments:

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