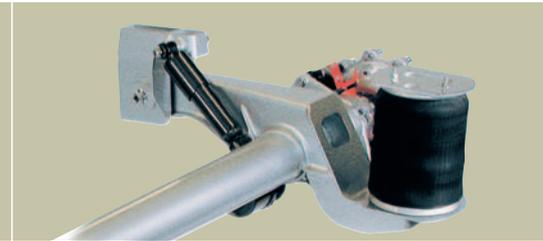


DAIMLERCHRYSLER



Operating instructions and maintenance specifications for trailer axle systems NR5 and the air suspension units HT250 and HDB

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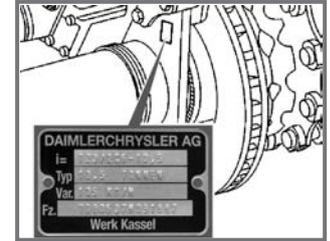
www.traileraxlesystems.daimlerchrysler.com

Vehicle data

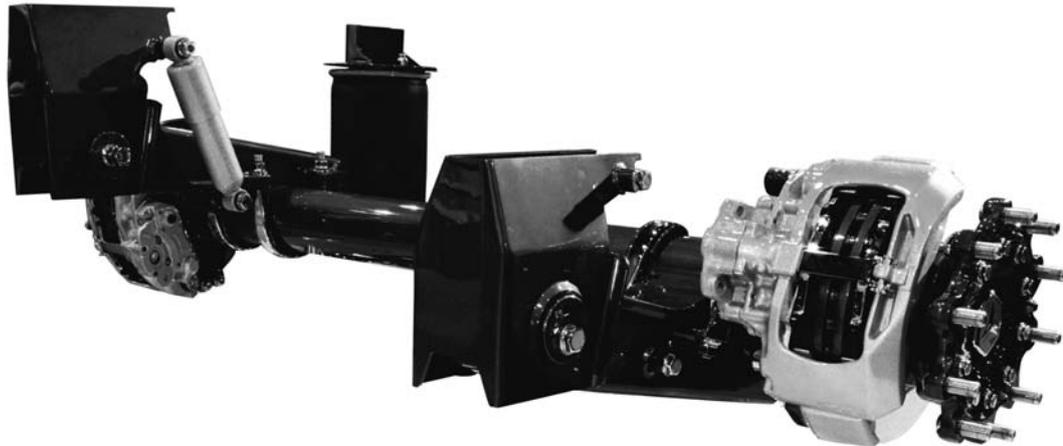
Vehicle manufacturer	
Address	
Vehicle model	
Chassis no.	
Delivery	
Registration	



New identification plate can be found in the centre of the axle housing



Old identification plate can be found on inside of right hand brake calliper attachment bracket.



Information in the data systems (WIS/EPC) at MB Service Centres

Data card for trailer axle systems:

In order for the necessary parts to be clearly identified, the installed components (SAA - optional equipment versions) must be determined with FDOK using the axle serial no. (1) entered on the axle identification plate.

Example:

The number stated on the axle identification plate (for example, H177208 as shown here) is entered in the column for the axle end no. in the FDOK 3100 entry screen. Pressing the Enter key then calls up the basic data for the corresponding axle system in the 3112 screen. Pressing the PF6 function key displays an overview of the items of optional equipment which are installed.

Part identification:

When you reach the start screen of the **EPC System** (directly after entering the WDB vehicle ident. end no.), enter the axle model no. - e.g. 749334 - stated on the axle identification plate or the FDOK data card. A list of parts for this axle model will now be displayed.

In the case of components fitted as an option, the validity must be checked against the FDOK data so that the parts can be clearly identified.

Repair instructions:

Instructions for carrying out repairs to DaimlerChrysler axle systems can be found in the **WIS System** by entering the



Old identification plate

DaimlerChrysler AG Kassel - Germany			
Type	TE5/8C7-9		
Serial No.	H177208	Type des.	749334
Var.	036018010	TDB No.	0571
axle load	9.000	kg stat. perm.	V max. 105 km/h

New identification plate

'dummy' vehicle ident. end no WDB000001, and then selecting the corresponding axle system on the right-hand side under "Major Assembly". You can then view the relevant documents by selecting the menu options "Documentation" and "Selection of test and repair operations". The model designation can again be read off the data card or the axle identification plate.

Alternatively, you can retrieve the required repair instructions via the "Table of contents" and the following sub-directories:



- > AR (test and repair work)
- > Truck
- > Rear axle
- > Rear axle 749
- Suspension (air suspension)
- Rear axle (axle)
- Brakes (brake)

Axle model designation for trailers and semi-trailers

Example for model designation

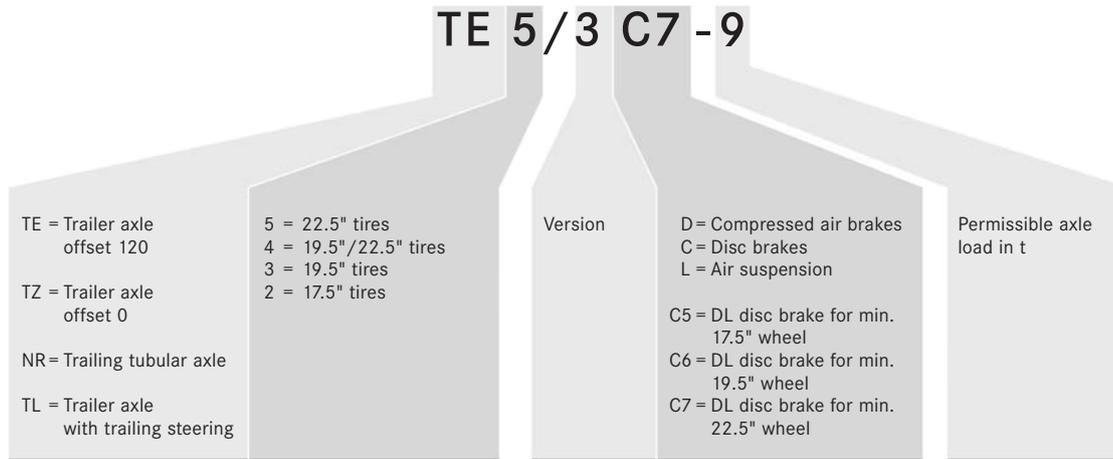


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	9		
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- Axle model NR5 with single tyres and TZ5/TZ3 with twin tyres, each with conventional bearings	11	- Disc brake 22.5", made by Knorr SB7/SB7 mod.	26-27
		Disc brake 19.5", made by Knorr SB6/SB6 mod.	26-27
		- List of brake cylinders used	28
Wheel bearings		Technical information	
- Model NR5 with single tyres 9t/ET 120 and conventional bearing	12	- Tightening torques	29
- Model TZ5/TZ3 and Model TE5/TE3, twin tyres/single tyres 10,5t/ET 0 with conventional bearing for Ø 146 axle tube	13	- Conventional bearing system	29
- Model TE4 and TE5 with single tyres 9t/ET 120 and compact bearing	14	- Compact bearing	29
- Model TZ5 with single tyres 9t/ET 0 and compact bearing	15	- Tightening torques for trailer axles with pneumatic suspension HT250 and HDB	30
		- Tightening procedure for retaining bracket mount	31
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Introduction

This maintenance booklet is intended to serve as a guideline for performing maintenance work on your axle.

Always perform the work specified by us when it is due to maintain operating reliability.

Our axles are subject to continuous development. Please appreciate that the maintenance scopes may change due to technical modifications.

Any maintenance work due and inspections prescribed at certain intervals by law (in the Federal Republic of Germany for example, Section 29 of the StVZO Road Transport Regulations) can be performed individually or together, depending on what is better for the individual company.

In order to offer the most favorable scope of work, it is possible to select between:

- Complete maintenance
- Maintenance without those items also included in the intermediate and main inspections.

The “daily vehicle check” before starting a journey is one of the driver’s obligations and is described in the operating instructions.

Warranty

A well-established network of Mercedes-Benz service stations is available to perform the maintenance work for you. Thanks to their equipment, tools, specially trained personnel, experience and regular technical training by the plant, all of these workshops ensure that your axle will be checked and serviced properly, thoroughly and in line with the latest practices.

Warranty claims for DaimlerChrysler products can be filed with any authorised Mercedes-Benz service station.

If you have any questions concerning the warranty, please contact the service department at:

D, B, NL, A, CH

- Telephone +49 (0)561 802-2078
- Fax +49 (0)561 802-2164

UK

- Telephone +44 (0)1244 394-220
- Fax +44 (0)1244 394-224

F, E, P, I

- Telephone +33 (0)499 1337-37
- Fax +33 (0)499 1337-30

Please follow the instructions in this Maintenance Booklet and ensure that they are also observed even when a third party is responsible for use and care of the vehicle. Only in this manner can you ensure that your warranty remains valid. If maintenance services during the warranty period are not performed regularly or when they are due, or are not performed by an authorised workshop, a decision can only be made regarding warranty claims once an analysis report from the manufacturer is available.

Special lubricant additives are not required. The use of special additives may limit the scope of the warranty.

No legal rights can be derived from the contents of the Operating Instructions.

Welding instructions

Axle parts and parts of the wheel brakes are safety-critical parts. For this reason, the following work is not permissible as a matter of principle:

- Welding
- Build-up welding
- Heating and straightening
- Hard chrome plating
- Other similar work.

Such work can result in tension cracks which cannot be detected externally, but which can lead to fractures and accident damage.

Any welding work required is subject to approval and must be agreed with DaimlerChrysler AG.

Brake system

Release of spring-loaded parking brake with insufficient supply pressure in brake system

In emergencies or in the workshop, the spring-loaded parking brake can be released mechanically or pneumatically.

Caution! Risk of accident.

- **Before releasing the spring-loaded parking brake:**
Ensure that vehicle cannot roll away.
- **Before starting up vehicle:**
Ensure that spring-loaded parking brake is in proper operational state.
Apply parking brake.

Mechanical release

- Screw release screws out to stop (release position).
Caution! Release torque max. 70 Nm
(do not use impact screwdriver)

Returning spring-loaded parking brake to operational state:

- Fill brake system up to switch-off pressure
- Move lever on parking brake valve to release position
- Completely screw in and tighten release screws (brake position)

Axle model NR5 with single tyres and TZ5/TZ3 with twin tyres, each with conventional bearings

Maintenance work

Caution: Always retighten wheel nuts to specified tightening torque after 50 km (same applies following each wheel change).

Wheel bearings

Repack wheel bearings with new grease every 300,000 km or 24 months. Check tapered ball bearing when repacking for reusability, adjust wheel bearing play and replace radial shaft sealing ring.

Visual check and safety tests

- Check chassis parts *annually* for wear, leakage and damage.
- Check brake lining wear regularly (can be done when checking tire pressure, for examples)
- Check brake calipers *annually* for free movement (sliding), check external sealing boots of bolt guide for leakage.

General annual safety test (ALB, tractor/trailer brake force distribution, etc.): if the tractor vehicle has been changed or has a different braking system than the trailer it is towing, the tractor/trailer brake force distribution must be adjusted. If the brake discs or linings are replaced, check the inner sealing boots of the brake caliper and replace if necessary.

Conditions of use

- **Vehicles with low mileage:**
Perform maintenance based on time intervals

- **Vehicles operating under extreme conditions:**
Shorten maintenance intervals accordingly

Adjusting wheel bearing play

Initial tightening torque Axle nut 380 Nm, turn wheel hub one rotation

Set to 0.02-0.04 mm

Bearing play

NR5

Secure clamping nut with 62 Nm

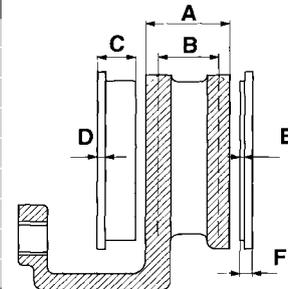
TZ5/TZ3

Tighten counter-nut to 380 Nm, secure with retaining plate

Service product specifications

- For sealed slide pin and brass bushings: Renolit HLT2
- For rubber guide sleeve (70.3): Syntheso GL EPI
- For axle stub: DC assembly paste, wheel bearing grease (part no. A 000 989 63 51)

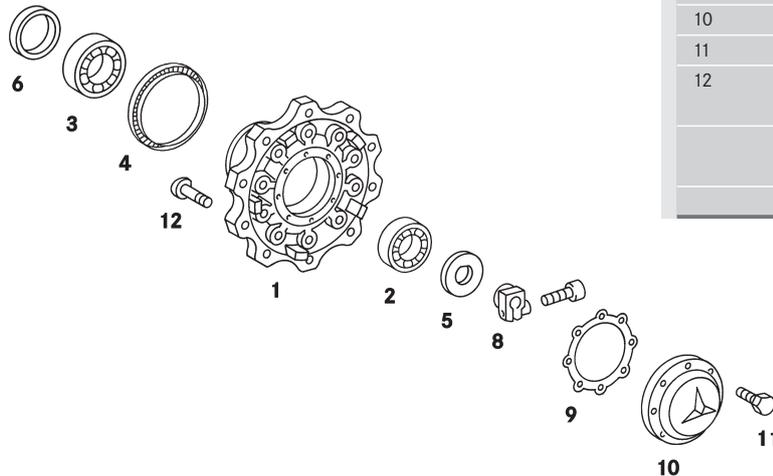
Technical data	SB6 19,5"/ SB7 22,5"
Brake models	
A Disc thickness	45 mm
B Disc wear limit	≤ 37 mm
C Lining thickness	30 mm
D Backing plate	9 mm
E Remaining lining thickness	2 mm
F Absolute minimum thickness	11 mm
Disc diameter	370/430 mm
No. of brake linings/axle	4



Wheel bearing

Model NR5 with single tyres 9 t / ET 120 and conventional bearing

Parts illustration



Parts list

Item no.	Part designation	Part no.
1	Wheel hub	A 942 334 14 01
2	Tapered roller bearing unit Ø120	A 006 981 69 05
3	Tapered roller bearing unit Ø150	A 007 981 70 05
4	Pole wheel	A 946 334 06 15
5	Thrust washer	A 656 332 00 62
6	Cassette seal	A 024 997 48 47
8	Clamping nut, complete	A 656 330 00 88
9	Hub cap gasket	A 943 334 00 80
10	Hub cap	A 327 356 01 20
11	Hex. bolt M 8x16	N 910 105 008 008
12	Wheel bolt M 22x1.5x80	depending on wheel version A 389 401 00 71
	Wheel bolt M 22x1.5x68	A 942 401 02 71
	Thrust ring Ø120xØ85x18 on axle journal (not illustrated)	A 656 334 02 15
	Wheel nut (not illustrated)	A 000 401 06 72

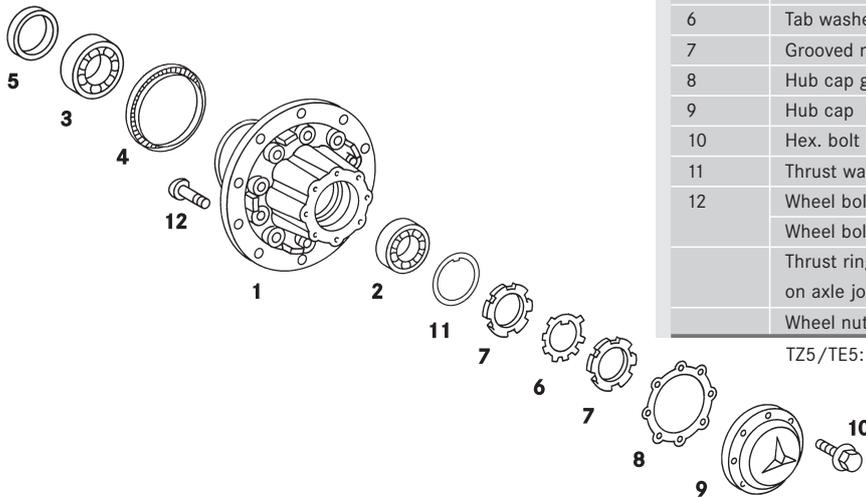
Model TZ5/TZ3 and Model TE5/TE3, twin tyres/single tyres 10.5 t/ET 0 with conventional bearing for Ø146 axle tube

Parts illustration

Parts list

Item no.	Part designation	Part no.
1	Hub for 10 stud wheel fixing	A 946 356 13 01
	Hub for 8 stud wheel fixing	A 946 356 03 01
2	Tapered roller bearing unit Ø130 mm	A 012 981 40 05
3	Tapered roller bearing unit Ø150 mm	A 005 981 85 05
4	Pole wheel for 10 stud wheel fixing	A 385 542 03 17
	Pole wheel for 8 stud wheel fixing	A 946 334 01 15
5	Cassette seal for 10 stud wheel fixing	A 021 997 69 47
	Cassette seal for 8 stud wheel fixing	A019 997 48 47
6	Tab washer	A 976 356 00 73
7	Grooved nut	A 976 356 00 26
8	Hub cap gasket	A 943 334 00 80
9	Hub cap	A 327 356 01 20
10	Hex. bolt M 8x16	N 910 105 008 008
11	Thrust washer	A 976 356 00 52
12	Wheel bolt M 22x1.5x80	} depending on } wheel version
	Wheel bolt M 22x1.5x110	
	Thrust ring Ø120xØ100x21 on axle journal (not illustrated)	A 675 356 02 15
	Wheel nut (not illustrated)	A 000 401 06 72

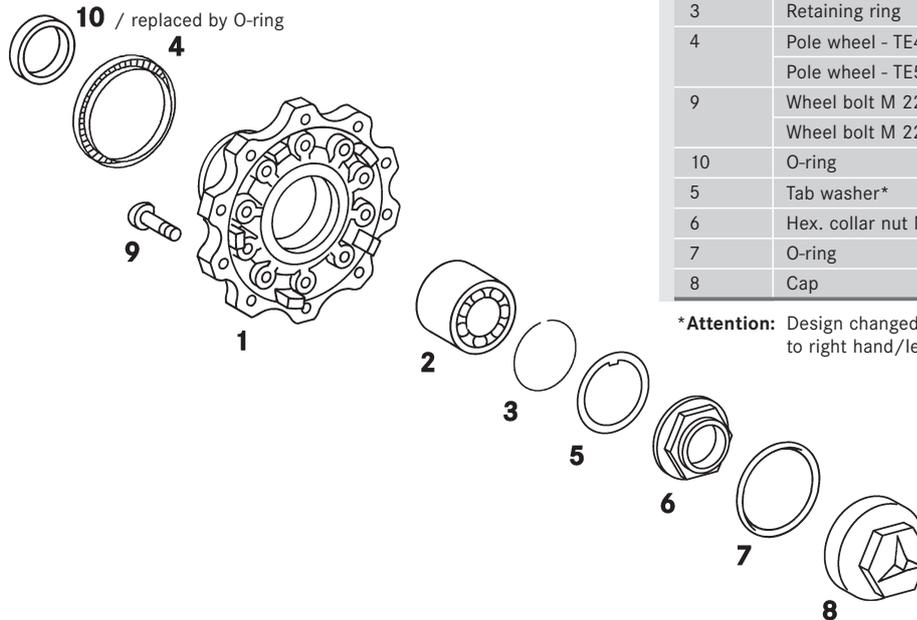
TZ5/TE5: for 22.5" tyres, TZ3/TE3: for 19.5" tyres



Wheel bearing

Model TE4 and TE5 with single tyres 9 t / ET 120 and compact bearing

Parts illustration



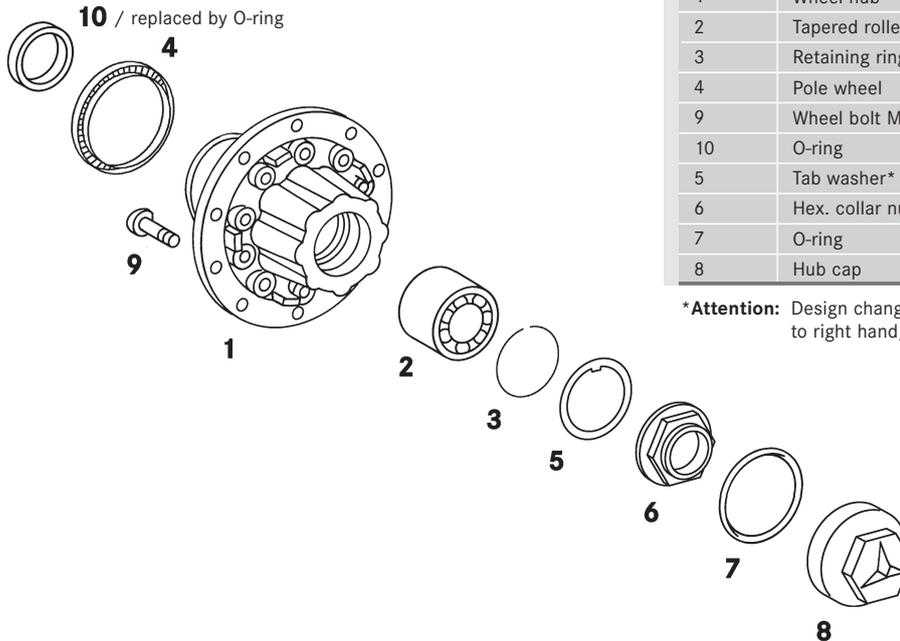
Parts list

Item no.	Part designation	Part no.
1	Wheel hub	A 000 350 05 35
2	Tapered roller bearing unit	incl. item nos. 3,7 & 10
3	Retaining ring	A 946 994 00 35
4	Pole wheel - TE4/TL4 - 90 Tooth	A 946 334 05 15
	Pole wheel - TE5/TL5 - 100 Tooth	A 946 334 00 15
9	Wheel bolt M 22x1.5x80	A 389 401 00 71
	Wheel bolt M 22x1.5x68	A 942 401 02 71
10	O-ring	A 029 997 97 48
5	Tab washer*	A 976 356 00 52
6	Hex. collar nut M 80x1.5*	A 970 990 00 50
7	O-ring	A 027 997 88 48
8	Cap	A 946 356 04 20

*Attention: Design changed from axle number H 188 675/15.11.2003 to right hand/left hand thread.

Model TZ5 with single tyres 9 t/ET 0 and compact bearing

Parts illustration



Parts list

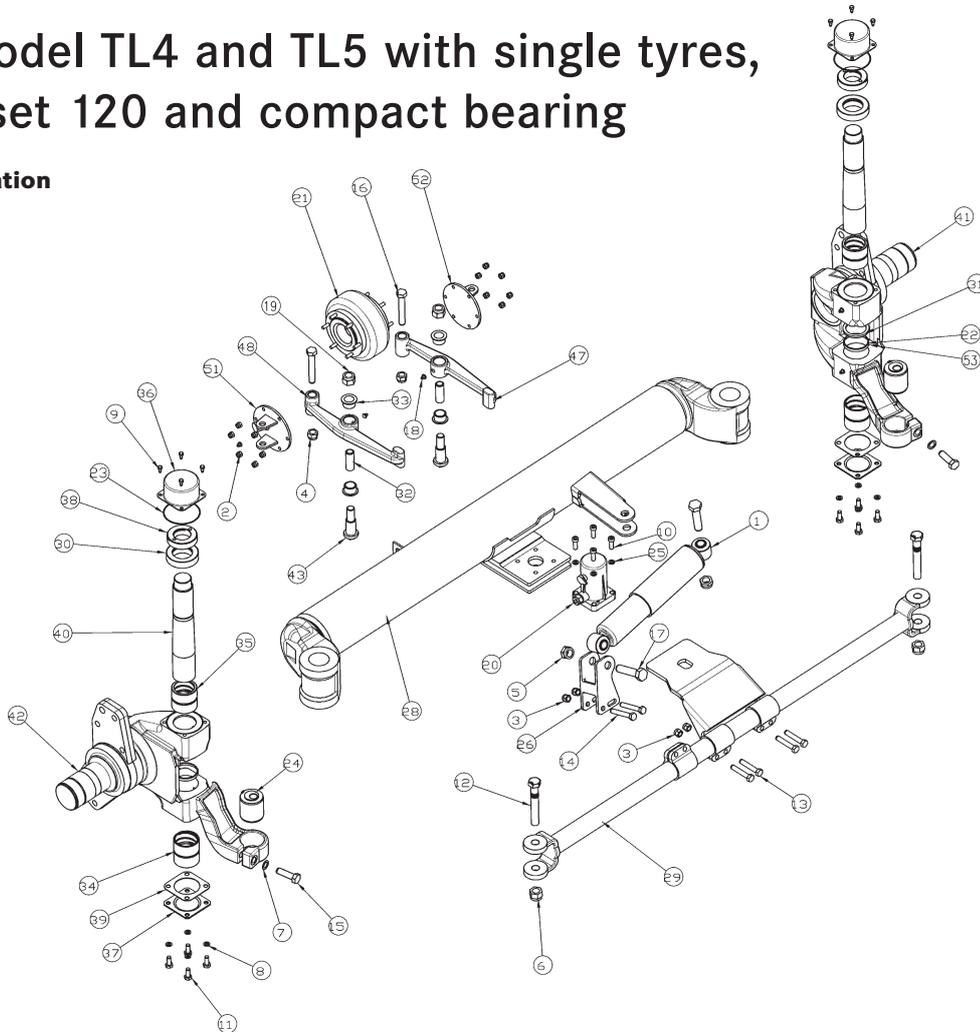
Item no.	Part designation	Part no.
1	Wheel hub	A 000 350 09 35
2	Tapered roller bearing unit	} Available only as set incl. item nos. 3,7 & 10
3	Retaining ring	
4	Pole wheel	A 946 334 05 15
9	Wheel bolt M 22x 1.5 x 80	A 389 401 00 71
10	O-ring	A 029 987 97 48
5	Tab washer*	A 976 356 00 52
6	Hex. collar nut M 80x1.5*	A 970 990 00 50
7	O-ring	A 027 997 88 48
8	Hub cap	A 946 356 04 20

*Attention: Design changed from axle number H 218 994/22.07.2004 to right hand/left hand thread.

Axle system

Axle model TL4 and TL5 with single tyres, 9 t/offset 120 and compact bearing

Parts illustration



Parts list for TL4 and TL5

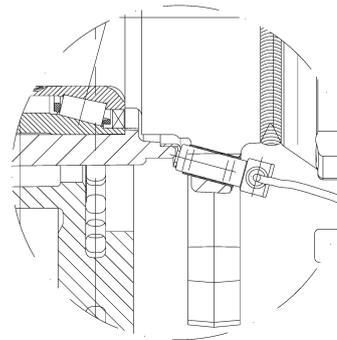
Item no.	Part description	Part no.
1	Vibration damper	A 946 393 00 47
2	Nut M8	N 913 023 008 003
3	Nut M12x1.5 (damper bracket)	N 913 023 012 002
5	Nut M20x1.5 (damper)	N 913 023 020 001
7	Washer	A 946 391 00 76
9	Bolt M8x16, top cover	N 910 142 008 002
10	Bolt M10x30, locking cylinder	N 910 142 010 007
11	Bolt M10x25, bottom cover	N 910 105 010 009
13	Bolt M12x1.5x65 (clamps)	N 910 105 012 019
14	Bolt M12x1.5x80 (damper bracket)	N 910 105 012 012
15	Clamping bolt M16x1.5x55	N 910 105 016 018
20	Locking cylinder	A 946 391 00 22
21	Airspring	A 946 393 00 77
25	Washer	A 946 391 02 76
26	Bracket for vibration damper	A 946 391 06 40
28	Axle tube, complete axle housing only	
29	Track rod for wheel tracks 2040	A 946 390 05 07
	Track rod for wheel tracks 2095	A 946 390 06 07
	Track rod for wheel tracks 2140	A 946 390 07 07
36	Top cover	A 946 391 02 20
37	Bottom cover	A 946 391 01 20
38	Clamping nut	A 946 332 00 72
40	Axle stub bolt	A 946 393 00 74
41	Stub axle, on left when viewed in direction of travel	A 946 390 05 44
42	Stub axle, on right when viewed in direction of travel	A 946 390 06 44
51	Plate (pneumatics connection)	A 946 391 00 41
52	Plate	A 946 391 01 41

Item no.	Repair solution description	Part no.
A	Adjusting lever includes items nos. 4, 16, 18, 19, 32, 33, 43, 47, 48	A 000 390 00 27
	B	Track rod adjustment includes items nos. 6, 12, 24
C	Axle stub bearing includes items nos. 22, 23, 30, 31, 34, 35, 39, 53	A 000 330 06 20

Supplementary maintenance work

Lubrication intervals of 6 months, no load should be placed on axle during lubrication. Total toe-in 2-4 mm, adjustable using the eccentric bush (see item 24 in parts illustration).

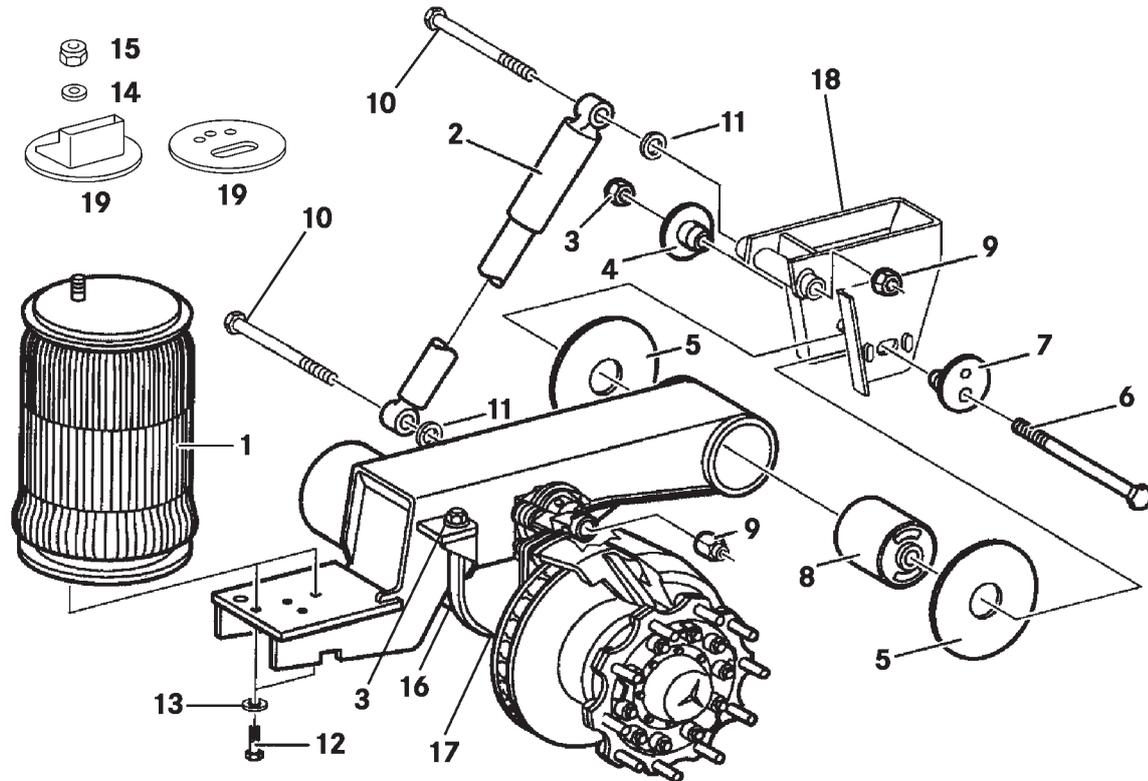
Parts illustration for version with 15° ABS



Air suspension

HT250 air suspension

Parts illustration



Parts lists for HT250 air suspension Standard 15 mm airspring offset

Item no.	Part designation	Part no.
1	Pneumatic bellows	A 946 328 04 01
2	Shock absorbers	A 946 326 00 00
3	Pivot nut M 22x1.5	A 000 401 06 72
4	Inner collar plate	A 946 328 01 76
5	Plastic washer	A 946 328 00 76
6	Hex. head bolt M 22x1.5x260	A 946 990 06 01
7	Outer eccentric disc	A 946 328 02 76
8	3D socket	A 946 390 00 50
9	Hex. nut M 20x1.5	A 946 990 08 50
10	Hex. head bolt M 20x1.5x280	N 910 105 020 036
11	Washer 20 out. Ø50	A 946 990 07 40
12	Hex. head bolt M 12x1.75x30	A 946 990 01 01
13	Lock washer 12	A 946 990 00 47
14	Washer 20	A 946 990 01 40
15	Hex. nut M 20	A 946 990 03 50
16	U bracket	A 946 325 02 47
17	Base for U bracket	A 946 328 00 64
18	Hanger bracket, left, height 253 mm	A 946 320 03 78
	Hanger bracket, right, height 253 mm	A 946 320 04 78
	Hanger bracket, left, height 303 mm	A 946 320 06 78
	Hanger bracket, right, height 303 mm	A 946 320 07 78
19	Top plate, pneumatic suspension bellows, height 5 mm	A 946 328 70 35
	Top plate, pneumatic suspension bellows, height 50 mm	A 946 320 03 35
	Top plate, pneumatic suspension bellows, height 100 mm	A 946 320 06 35

Lower airspring mount 66 mm airspring offset instead of 15 mm

Item no.	Part designation	Part no.
12	Hex. bolt M 12x1.75x40	A 946 990 00 01
13	Lock washer 12	A 946 990 00 47
	Reinforcement plate (not illustrated)	A 946 328 06 35

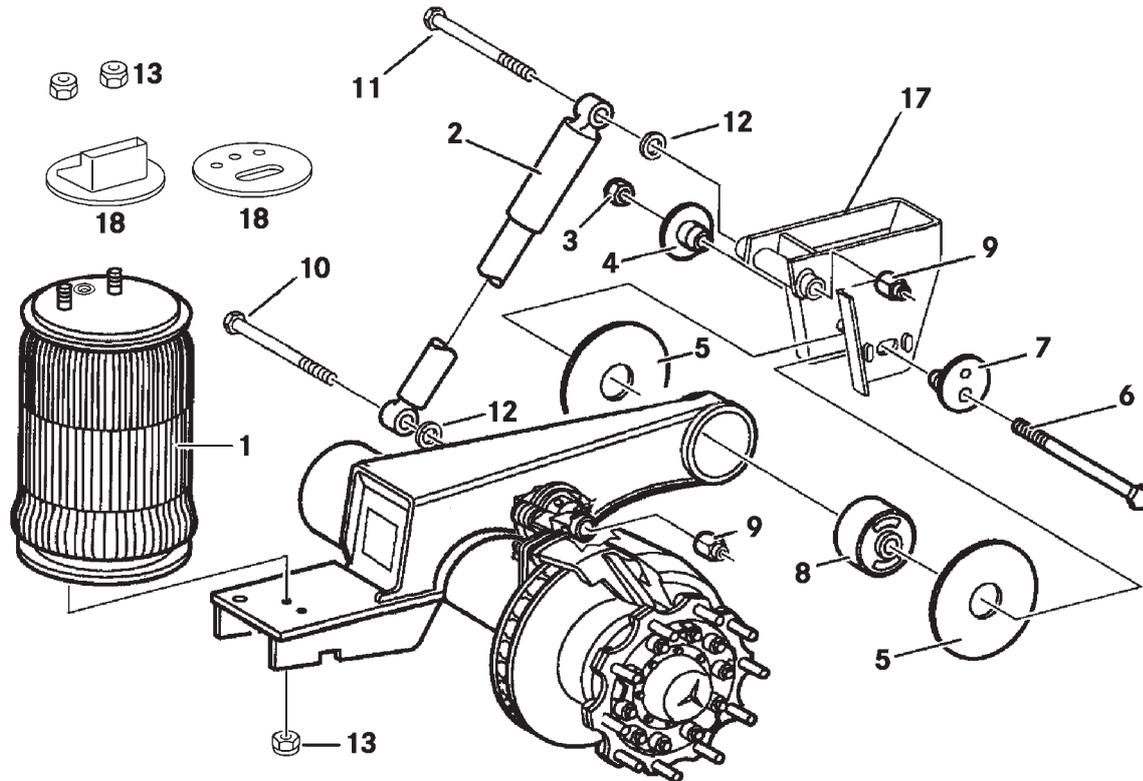
Deviating parts for 240 mm long axle travel

Item no.	Part designation	Part no.
1	Bellows (long stroke)	A 946 328 08 01
2	Shock absorber	A 946 326 01 00
18	Hanger bracket, left, height 353 mm	A 946 320 09 78
	Hanger bracket, right, height 353 mm	A 946 320 10 78
19	Top plate, pneumatic suspension bellows, height 70 mm	A 946 320 04 35
	Top plate, pneumatic suspension bellows, height 5 mm	A 946 328 70 35
	Top plate, pneumatic suspension bellows, height 50 mm	A 946 320 03 35
	Airspring mount, top, } not nut M 12 } illustrated	A 946 990 02 50
	Airspring mount, top, } not lock washer } illustrated	A 946 990 00 47

Air suspension

HDB air suspension

Parts illustration



Parts lists for HDB air suspension

Item no.	Part designation	Part no.
1	Airspring	A 946 328 12 01
2	Shock absorbers	A 946 326 01 00
3	Wheel nut M 22x1.5	A 000 401 06 72
4	Concentric washer	A 946 328 01 76
5	Wear pad up to H 155 656	A 946 328 00 76
	Wear pad from H 155 657	A 946 328 06 76
6	Pivot bolt M 22x1.5x185	A 946 990 13 01
7	Eccentric washer	A 946 328 02 76
8	Tri-functional bush	A 946 390 01 50
9	Hex. nut M 20x1.5	A 946 990 08 50
10	Hex. bolt, bottom M 20x1.5x130	N 910 105 020 020
11	Hex. bolt, top M 20x1.5x220	N 000 000 002 358
12	Washer 20 Ø50	A 946 990 07 40
13	Hex. nut M 12	A 946 990 02 50

Item no.	Part designation	Part no.
17	Hanger bracket, left, height 205 mm	A 946 320 15 78
	Hanger bracket, right, height 205 mm	A 946 320 16 78
	Hanger bracket, left, height 255 mm	A 946 320 18 78
	Hanger bracket, right, height 255 mm	A 946 320 19 78
	Hanger bracket, left, height 305 mm	A 946 320 21 78
	Hanger bracket, right, height 305 mm	A 946 320 22 78
18	Top plate, pneumatic suspension bellows, height 5 mm	A 946 328 70 35
	Top plate, pneumatic suspension bellows, height 50 mm	A 946 320 03 35
	Top plate, pneumatic suspension bellows, height 100 mm	A 946 320 06 35
	Top plate, pneumatic suspension bellows, height 155 mm	A 946 320 08 35

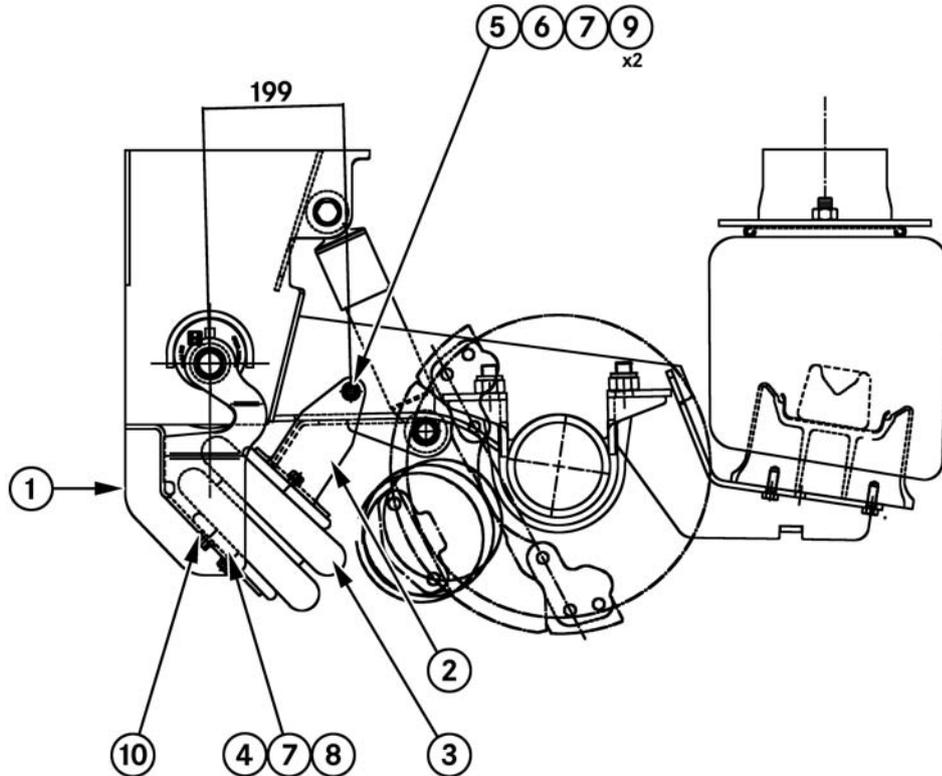
Deviating parts for 240 mm long axle travel

Item no.	Part designation	Part no.
1	Pneumatic bellows (long stroke)	A 946 328 08 01
18	Hanger bracket (version C cross member, height 405 mm)	A 946 310 46 46
19	Top plate, pneumatic suspension bellows, height 145 mm	A 946 320 07 35
	Airspring mount, bottom, } not bolt } illustrated	A 946 990 01 01
	Airspring mount, bottom, } not lock washer 12 } illustrated	A 946 990 00 47

Air suspension

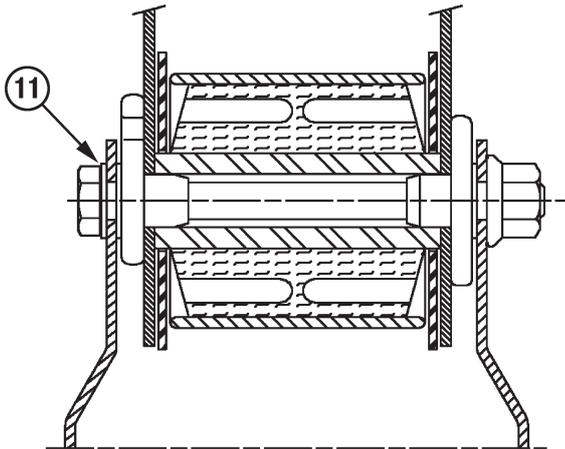
Dual side lift for HT250 air suspension

Parts illustration



Parts list

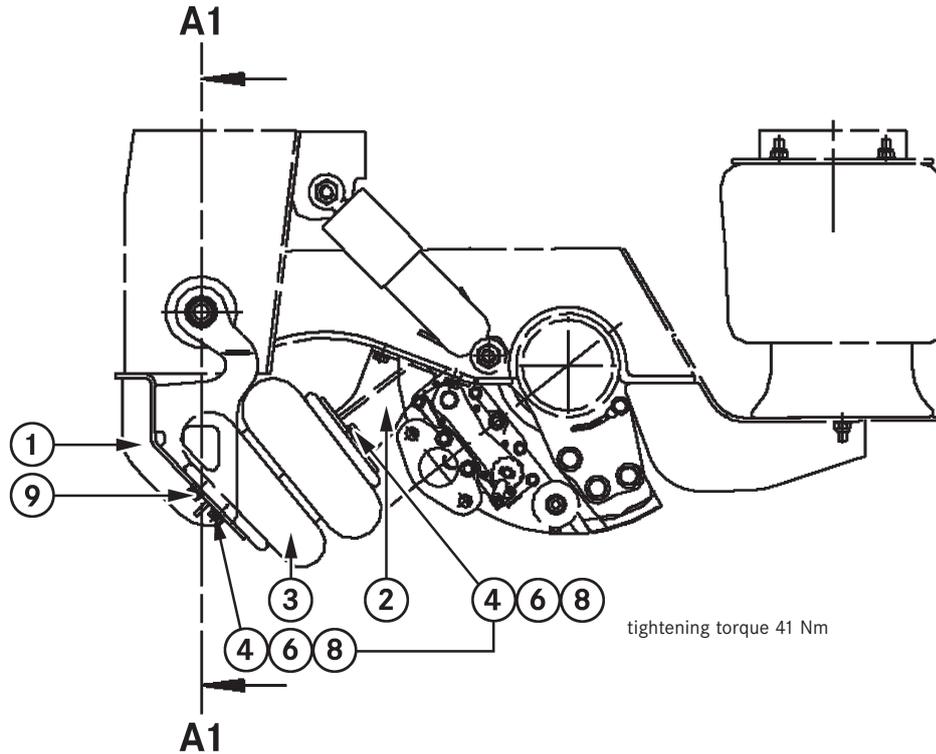
Item no.	Part designation	Part no.
1	Airspring support bracket	A 946 328 07 40
2	Location on suspension link (lower link)	A 946 328 08 40
	Location on suspension link (upper link)	A 946 328 24 40
	Location on suspension link (lower link) operating height 500	A 946 328 23 40
3	Pneumatic bellows	A 946 328 20 01
4	Hex. head bolt M10x1.5x 25	A 946 990 05 01
5	Hex. head bolt M10x1.5x190	A 946 990 03 01
6	Nut M 10	A 946 990 04 50
7	Washer 10	A 946 990 03 40
8	Lock washer 10	A 946 990 01 47
9	Spacer bushing on trailing arm	A 946 328 00 50
10	Reducer 1/2" to M 12x1.5	A 946 328 01 64
11	Washer 22	A 946 990 05 40



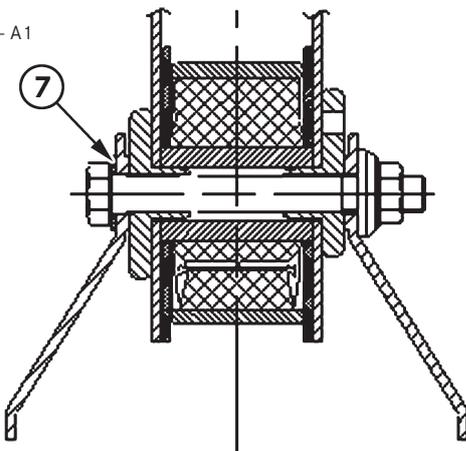
Air suspension

Dual side lift for HDB air suspension

Parts illustration



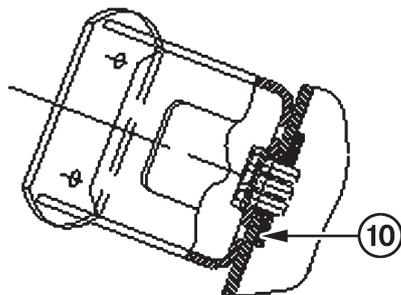
cross section A1 - A1



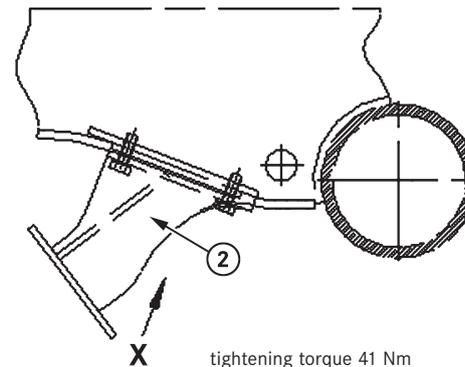
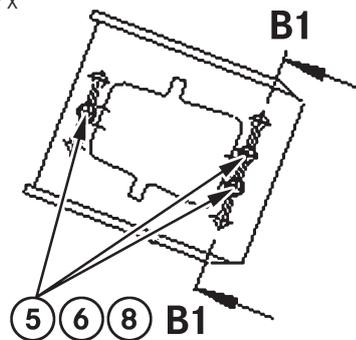
Parts list

Item no.	Part designation	Part no.
1	Airspring support on bearing bracket	A 946 328 17 40
2	Location on suspension link	A 946 328 18 40
3	Pneumatic bellows	A 946 328 20 01
4	Hex. head bolt M 10x25	A 946 990 05 01
5	Hex. head bolt M 10x30	A 946 990 14 01
6	Washer 10	A 946 990 03 40
7	Washer 22	A 946 990 05 40
8	Lock washer 10	A 946 990 01 47
9	Reducer 1/2" to M 12x1.5	A 946 328 01 64
10	clamp plate	A 946 328 17 35

cross section B1 - B1



view X



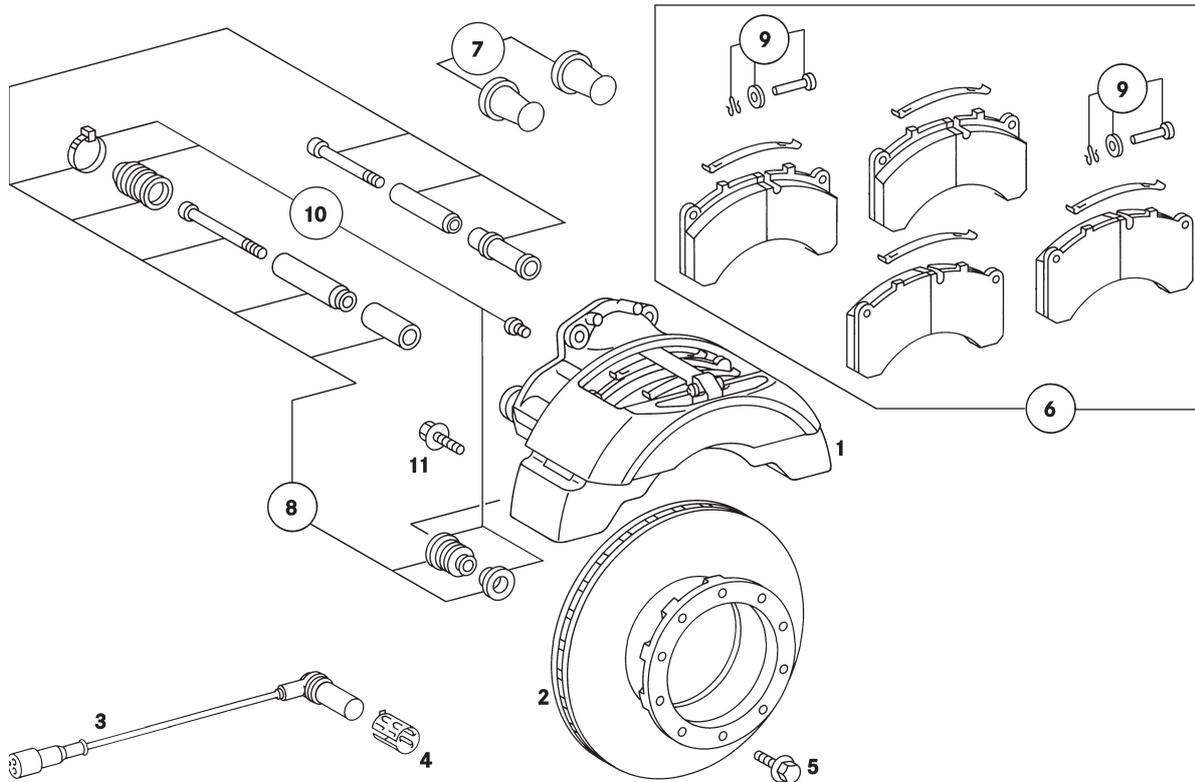
tightening torque 41 Nm

Brakes

Disc brake 22.5", made by Knorr, SB7/SB7 mod.

Disc brake 19.5", made by Knorr, SB6/SB6 mod.

Parts illustration



Brake calliper parts list Model SB7/SB7 mod. - 22.5"

Item no.	Part designation	Part no.
1	Repair solution, left, actuating unit	A 002 420 49 83
	Repair solution, right, actuating unit	A 002 420 50 83
2	Brake disc	A 942 421 21 12
3	ABS sensor	A 002 542 31 18
4	Bushing for sensor	A 355 542 02 73
5	Hex. bolt TE5 14x1.5x75	A 004 990 59 04
6	Brake lining set (for one axle)	A 002 420 49 20
7	Tappet & boot set (for pistons)	A 000 420 23 82
8	Slide pin kit (guide pin)	A 000 420 34 82
9	Pad retaining pin kit (lining holder)	A 000 420 25 82
10	Boot kit for slide pins (no guide pins)	A 001 420 52 83
11	Bolt M16x1.5x60	N 910 105 016 005
	Shoulder bolt	A 942 990 01 14
	Bracket for lining wear indicator/ ABS connector (not illustrated)	A 946 328 19 40
	Lining wear sensor kit (not illustrated)	A 946 542 01 18

Brake calliper parts list Model SB6/SB6 mod. - 19.5"

Item no.	Part designation	Part no.
1	Repair solution, left, actuating unit	A 002 420 26 01
	Repair solution, right, actuating unit	A 002 420 27 01
2	Brake disc for 10 stud wheel fixing	A 675 421 00 12
	Brake disc for 8 stud wheel fixing	A 975 423 06 12
3	ABS sensor	A 002 542 31 18
4	Bushing for sensor	A 355 542 02 73
5	Hex. bolt TE4 14x1.5x70 for 10 stud wheel fixing	N 910 105 014 009
	Hex. bolt TZ3 14x1,5x55 for 8 stud wheel fixing	N 000 000 000 110
6	Brake lining set (for one axle)	A 002 420 78 20
7	Tappet & boot set (for pistons)	A 000 420 23 82
8	Slide pin kit (guide pin)	A 000 420 34 82
9	Pad retaining pin kit (lining holder)	A 000 420 25 82
10	Boot kit for slide pins (no guide pins)	A 001 420 52 83
11	Bolt M16x1.5x60	N 910 105 016 005
	Shoulder bolt only with 10 stud wheel fixing	A 942 990 01 14
	Bracket for lining wear indicator/ ABS connector (not illustrated)	A 946 328 19 40
	Lining wear sensor kit (not illustrated)	A 946 542 01 18

Brakes

List of brake cylinders used depending on ride height and air suspension

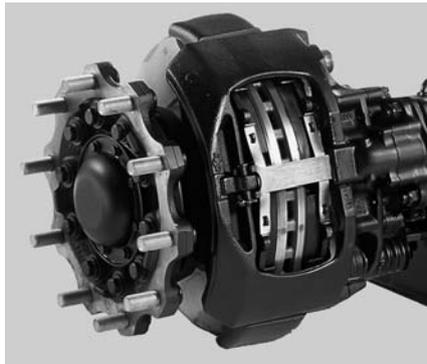
Cylinder size	DC part no.	Lift	Manu- facturer	Air suspension type/Ride height		
				HT 250 250-300	HT 250 350-450	HDB 250-450
16/16"	A 017 420 88 18	57 mm	WABCO	Right	Left	Left
16/16"	A017 420 89 18	57 mm	WABCO	Left	Right	Right
16"	A 006 420 52 24	57 mm	WABCO	Left and right		Left and right
20"	A 007 420 12 24	62 mm	WABCO	Left and right		Left and right
22"	A 007 420 13 24	62 mm	WABCO	Left and right		Left and right
24"	A 007 420 14 24	62 mm	WABCO	Left and right		Left and right
16/24"	A 018 420 52 18	57 mm	WABCO	Left	Right	Right
16/24"	A 018 420 53 18	57 mm	WABCO	Right	Left	Left
20/24"	A 018 420 55 18	64 mm	WABCO	Right	Left	Left
20/24"	A 018 420 56 18	64 mm	WABCO	Left	Right	Right

Caution: When replacing brake chambers, always remove the lower most drain plug from the front chamber housing, failure to do so may result in chamber or caliper damage!

Tightening torques

Conventional bearing system

- Initial torque** Axle nut 380 Nm, turn wheel hub one rotation.
- Bearing play** Adjust to 0.02 - 0.04 mm
- NR 5** Secure clamping nut with 62 Nm
- TZ5/TZ3** Tighten counter-nut to 380 Nm, secure with retaining plate
- Hub cap** Bolted, M8 43 Nm



Wheel nuts	M22x1,5	600 Nm
Brake disc on hub	M14x1,5	181 Nm
Brake cylinder mount	M16x1,5	180 Nm
Brake caliper mount	M16x1,5	260 Nm

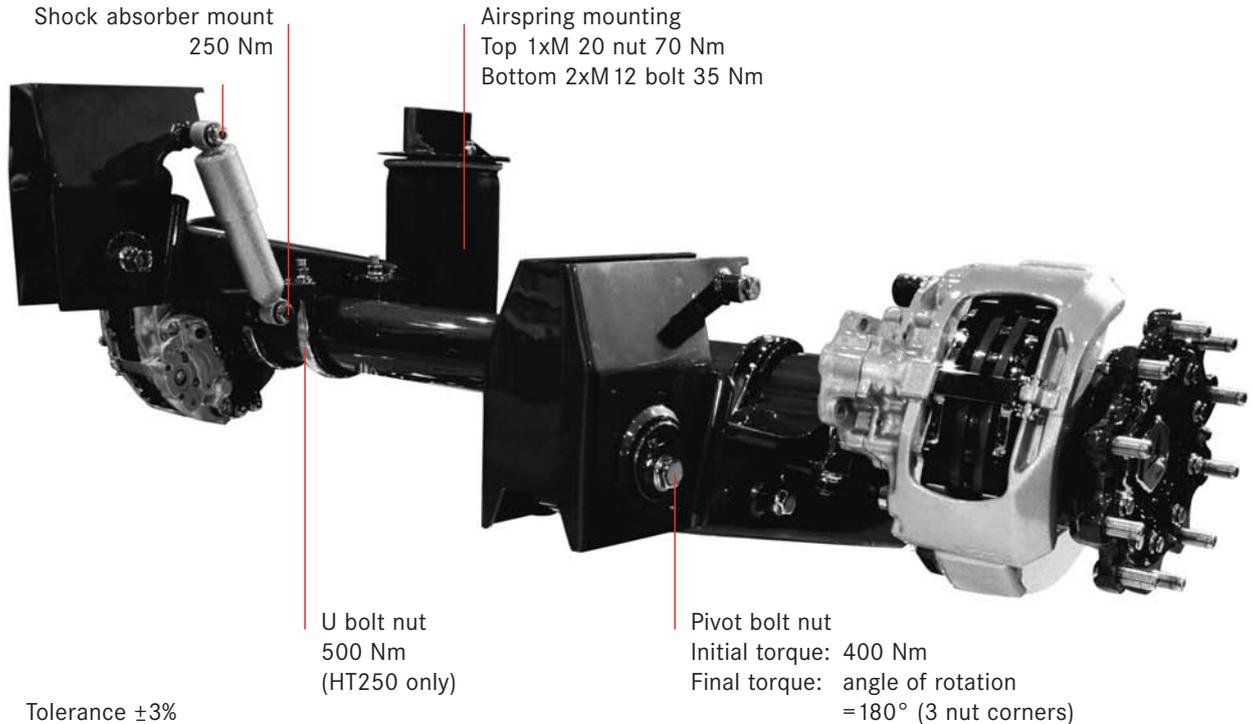
Compact bearing

- Initial torque** Axle nut 700 Nm
- Bearing play** Bearing play not adjustable
- Hub cap** Press fit hub cap



Technical information

Tightening torques for trailer axles with pneumatic suspension HT250 and HDB



Tightening procedure for retaining bracket mount

The hanger bracket pivot connection on trailer axles was modified in June 2000. Bolts and hex. nuts are now only shipped in the new version.

Tighten pivot bolt nut with suspension set at correct ride height only, do **not** oil thread.

1. Initial tightening torque

Tighten pivot bolt nut to **400 Nm** with torque wrench.



2. Final torque with angle of rotation

Continue to turn nut **180°** (3 nut corners).
When tightened correctly, retightening is not required on steel hanger brackets.
Check after 6 months.

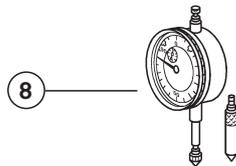
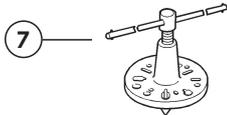
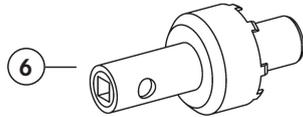
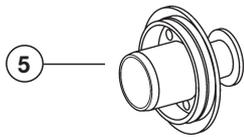
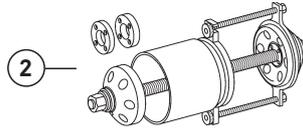
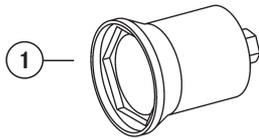


With impact wrench or appropriate extension lever (L = 2.5 m)

Mark and check visually.

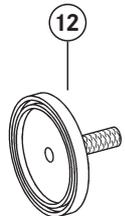
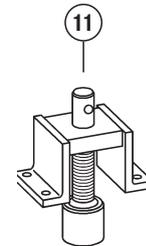
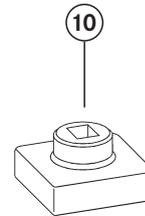
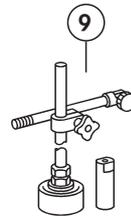
Tools

Parts illustration



Parts list

Item no.	Part description	Part no.
1	Socket for hex. axle end nut M80x1.5	W 749 589 00 09 00
2	Extraction and insertion tool for pivot bush	W 749 589 01 33 00
3	Assembly aid for compact bearing hub	W 749 589 00 14 00
4	Drift for fitting ABS/EBS pole wheel - 100 Tooth	W 739 589 02 15 00
5	Drift for fitting ABS pole wheel - Angled 90 Tooth	W 749 589 00 15 00
6	Claw spanner attachment for slotted round nut on TZ5/TZ3	W 749 589 02 07 00
7	Hub Puller	W 035 589 01 33 00
8	Bearing Play Dial Test Indicator Conventional Bearing only	W 001 589 53 21 00
9	Test Indicator Stand Conventional Bearing only	W 363 589 02 21 00
10	NR5 Axle End Nut Spanner	W 739 589 00 13 00
11	Hub Puller & Mounting Tool, NR5 Axle	W 739 589 00 43 00
12	NR5 Oil Seal Drift	W 739 589 05 15 00



Maintenance work*

*see page 10-11 maintenance specifications

<input type="checkbox"/>	Bolt connections checked and retightened to specified tightening torque
<input type="checkbox"/>	Wheel bearing play checked
<input type="checkbox"/>	Wheel bearings regreased and new seal fitted To be performed only on axle systems with conventional bearings
<input type="checkbox"/>	Wheel bearings replaced conventional bearings
<input type="checkbox"/>	Wheel bearing play adjusted
<input type="checkbox"/>	Chassis parts checked for wear, leakage and damage
<input type="checkbox"/>	Brake lining wear checked
<input type="checkbox"/>	Caliper boots checked (version up to October 2000)
<input type="checkbox"/>	Brake system checked for leakage
<input type="checkbox"/>	Braking effect of service and parking brakes checked

Brake lining check	Remaining brake lining thickness, dimension D (see page 10)	Lining replaced
First axle, left	<input type="text"/> mm	<input type="checkbox"/>
First axle, right	<input type="text"/> mm	<input type="checkbox"/>
Second axle, left	<input type="text"/> mm	<input type="checkbox"/>
Second axle, right	<input type="text"/> mm	<input type="checkbox"/>
Third axle, left	<input type="text"/> mm	<input type="checkbox"/>
Third axle, right	<input type="text"/> mm	<input type="checkbox"/>

Brand of wheel bearing grease	<input type="text"/>
Mileage	<input type="text"/>
Repair order no.	<input type="text"/>
Date	<input type="text"/>
Signature	<input type="text"/>

Authorized workshop stamp

Maintenance work

<input type="checkbox"/>	Bolt connections checked and retightened to specified tightening torque
<input type="checkbox"/>	Wheel bearing play checked
<input type="checkbox"/>	Wheel bearings regreased and new seal fitted To be performed only on axle systems with
<input type="checkbox"/>	Wheel bearings replaced conventional bearings and new seal fitted
<input type="checkbox"/>	Wheel bearing play adjusted
<input type="checkbox"/>	Chassis parts checked for wear, leakage and damage
<input type="checkbox"/>	Brake lining wear checked
<input type="checkbox"/>	Caliper boots checked (version up to October 2000)
<input type="checkbox"/>	Brake system checked for leakage
<input type="checkbox"/>	Braking effect of service and parking brakes checked

Authorized workshop stamp

Brake lining check	Remaining brake lining thickness, dimension D (see page 10)	Lining replaced
First axle, left	<input type="text"/> mm	<input type="checkbox"/>
First axle, right	<input type="text"/> mm	<input type="checkbox"/>
Second axle, left	<input type="text"/> mm	<input type="checkbox"/>
Second axle, right	<input type="text"/> mm	<input type="checkbox"/>
Third axle, left	<input type="text"/> mm	<input type="checkbox"/>
Third axle, right	<input type="text"/> mm	<input type="checkbox"/>

Brand of wheel bearing grease	<input type="text"/>
Mileage	<input type="text"/>
Repair order no.	<input type="text"/>
Date	<input type="text"/>
Signature	<input type="text"/>

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