

BPW Original spare parts
Air suspensions series O / SL / AL / AC

O

S

BPW ORIGINAL SPARE PARTS

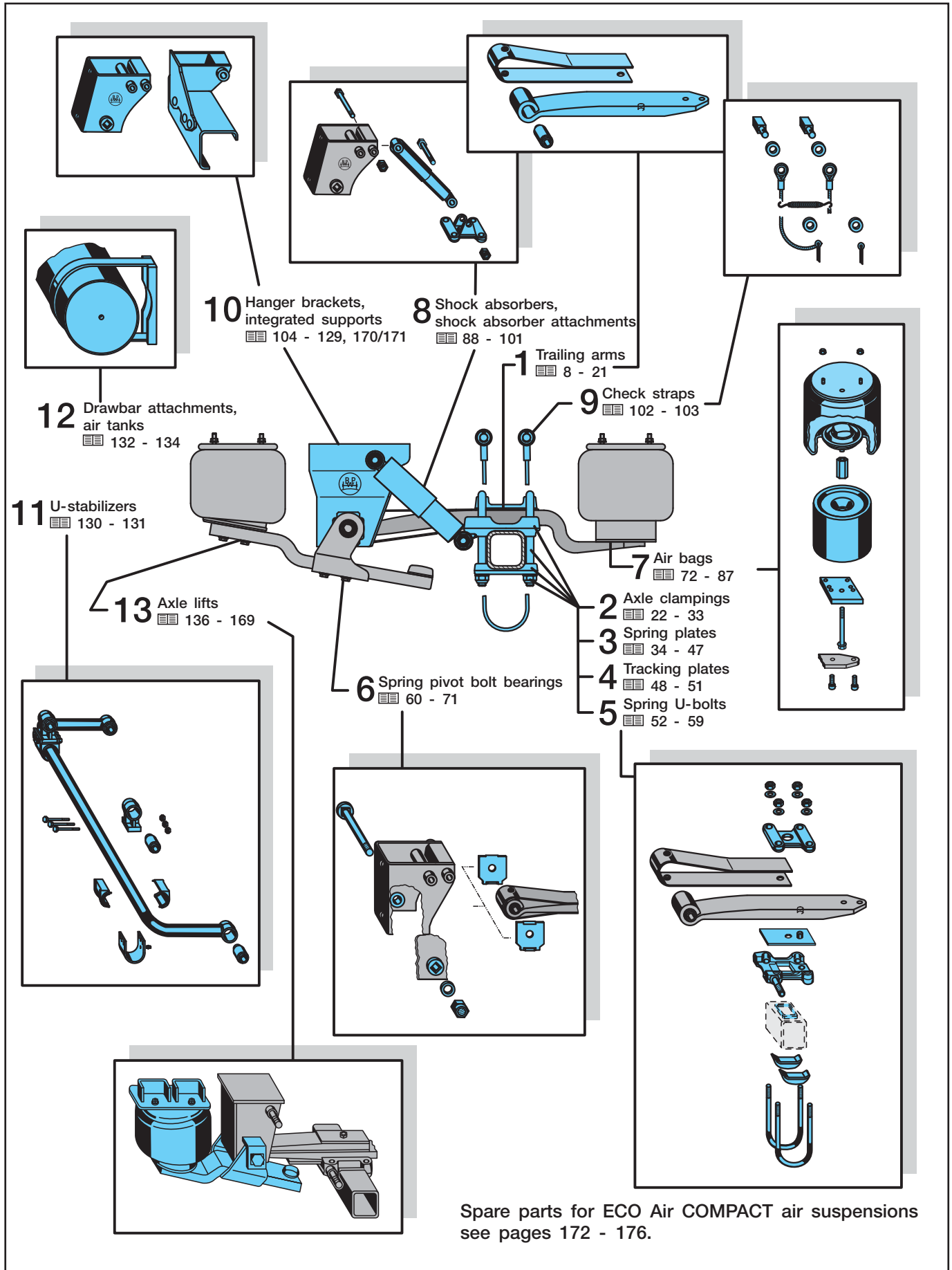
A

BPW Original spare parts • Air suspensions

O
SL
AL

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O
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AL



Explanation of BPW suspension type codes

Example:													
H	S	F	H	SLO	A	LL	3 /	9010	/12°	A	F30	ECO	
												Trailer axle	Brake
H												H..	SN 420
K												K..	SN 360
N												N..	SN 300
SH												SH..	SB 4309 / 4345; TSB 4309 / 4312
SK												SK..	SB 3745; TSB 3709
B	For single wheels, wheels with offset												
S	For single wheels, wheels without offset												
Z	For twin wheels												
I	Wheel spiders for TRILEX wheel rims, single wheels												
IZ	Wheel spiders for TRILEX wheel rims, twin wheels												
F	Wheel studs M 22 x 1.5 without wheel nuts, order wheel nuts for stud or spigot alignment separately												
M	For spigot alignment												
H	For hanging boosters												
												Air suspension series	Ride height
O	O = straight overslung trailing arm											490 - 500	
OM	OM = cranked overslung trailing arm											370 - 470	
OMN	OMN = cranked overslung trailing arm											355	
OMT	OMT = cranked underslung trailing arm											290	
OT	OT = underslung trailing arm											220 - 360	
SLO	SLO = straight overslung trailing arm											420 - 490	
SLM	SLM = cranked overslung trailing arm											360 - 440	
SLU	SLU = underslung trailing arm											220 - 330	
ALO	ALO = straight overslung trailing arm											380 - 490	
ALM	ALM = cranked overslung trailing arm											305 - 420	
ALMT	ALMT = cranked overslung trailing arm											245 - 290	
ALU	ALU = underslung trailing arm											175 - 300	
DLU	DLU = Airlight ^{Direct}											260 - 330	
ACAU	ACAU = ECO Air COMPACT											205 - 350	
ACAM	ACAM = ECO Air COMPACT											245 - 370	
ACBM	ACBM = ECO Air COMPACT											300 - 425	
ACBO	ACBO = ECO Air COMPACT											330 - 510	
A	With axle lift device												
R	With frame (= ride height + 100 mm)												
U	With U-stabilizer												
L	With steering axle, series L											steering angle max. 40°	
LL	With self-steering axle, series LL											steering angle max. 20°	
-	Single axle												
2 /	Tandem axle suspension												
3 /	Tri-axle suspension												
6006 to 13010	Axle load (kg) + quantity of wheel studs per hub												
/12° to /40°	Steering angle of steering axle												

Explanation of BPW suspension type codes

Example:																	
H	S	F	H	SLO	A	LL	3 /	9010	/12°	A	F30	ECO					
												A		Alloy hanger brackets			
												C		Integrated support			
												D		Hanger brackets with top plate			
												E		Hanger brackets without top plate			
												G		Air bags with split piston			
												K		Screwed on hanger brackets			
												S		Taper mounted hanger brackets (70 mm wide)			
												T		With support (trailing axle)			
												V		Adjustable hanger brackets			
												X		With stainless steel hanger brackets			
												Y		Without mounted hanger brackets, hanger brackets separate			
												30		Air bag	Ø 300 mm, for stroke 200 mm (standard)		
												30-1			Ø 300 mm, for stroke up to 340 mm		
												30 K			Ø 300 mm, for stroke 150 mm		
												36			Ø 360 mm, for stroke 200 mm (standard)		
												36-1			Ø 360 mm, for stroke bis 340 mm		
												36-2			Ø 360 mm, for stroke bis 450 mm		
												36 K			Ø 360 mm, for stroke 180 mm		
												F30			Ø 300 mm, central on the trailing arm		
												Z		Without mounted air bags, air bags separate			
												ECO		Single axle with BPW ECO hub system	1996 (1998) -		
												ECO-MAXX		Weight-optimized ECO-axle	- 2003		
												ECOPlus		Weight-optimized axle with BPW ECOPlus hub system	2003 -		
												ECO Plus 2		Weight-optimized axle with ECO Plus 2 Unit	2007 -		
												MAXX		Weight-optimized axle with conventional hub bearing system			

Valid: 1.7.2012

This spare parts list shows fast moving parts for air suspension bogies of the series **O.. / SL.. / AL.. 6 - 13 tonnes** and **ECO Air COMPACT**.

For further spare parts see BPW spare parts catalogue and / or spare parts lists of the corresponding single axles without bogie parts.

 -parts are embossed with BPW Code no.

Subject to change (without notice).

Explanation of BPW code numbers

Example:			
61.	38.	441.	001
1. + 2. digit			
21.		Air suspension single axle	
28.			
30.			
38.		Air suspension single axle without air bags, air bags loose, separate	
61.		Air suspension single axle	
64.			
67.			
22.		Tandem axle air suspension	
32.		Tandem axle air suspension / tri-axle air suspension	
62.		Tandem axle air suspension	
65.			
68.			
23.		Tri-axle air suspension	
29.			
39.			
63.		Tri-axle air suspension	
66.			
69.			
71.		Modul without hanger bracket and air bag	Axle series H / SH
74.			K / SKH
77.			N
72.		Modul with hanger bracket and without air bag	H / SH
75.			K / SKH
78.			N
73.		Modul with hanger bracket and air bag + Tandem or tri-axle suspension	H / SH
76.			K / SKH
79.			N
3. + 4. digit			
		Axle load	Roller bearing
			Bearing system
06.		6500 kg	33116 / 32310
08.		8000 - 9000 kg	33116 / 32310
10.		10000 - 12000 kg	33118 / 32313
14.		13000 - 14000 kg	32219 / 33215
36.		6500 kg	33116 / 32310
37.		8000 - 9000 kg	33116 / 32310
38.			
39.			
40.		10000 - 12000 kg	33118 / 33213
41.			
44.		13000 - 14000 kg	32219 / 33215
47.		8000 - 9000 kg	33118 / 33213
48.			
49.			
50.		10000 - 12000 kg	33118 / 33213
51.			
57.		8000 - 9000 kg	33118 / 33213
58.			
59.			
65.		6400 kg	33215 / 32310

Explanation of BPW code numbers

Example:			
61.	38.	441.	001
5. + 6. digit (Ref. number 7...)			
	01.		Designation trailing guide and air bag beam
	02.		ACAU
	03.		ACAM
	04.		ACBM
	04.		ACBO
	...		Further combinations trailing guide / air bag beam from AC program
	...		Trailing arms resp. trailing arm assemblies from AV program
5. - 7. digit (Ref. number 2... / 3... / 6...)			
	001. to 099.		Premounted air suspension axle without hanger brackets and air bags in the case of ref. number 61.xx.xxx.xxx to 69.xx.xxx.xxx e.g. .0xx. = Premounted air suspension axle .x51. = Premounted air suspension axle with trailing arm 05.082.13.51.0
	220. to 509.		Designation of ride height and air bag type 220 to 509 in the case of ref. number 61.xx.xxx.xxx - 69.xx.xxx.xxx e.g. .22x. = 220 mm ride height .44x. = 440 mm ride height Air bag type: .xx0. = BPW 30 (Ø 300 mm) .xx1. = BPW 36 (Ø 360 mm) .xx2. = BPW 36-1 (Ø 360 mm) .xx3. = BPW 30-1 (Ø 300 mm) .xx4. = BPW 30 K (Ø 300 mm) .xx5. = BPW 36 K (Ø 360 mm) .xx6. = BPW 36-2 (Ø 360 mm) .xx9. = BPW 30 / 36 loose separately
	501. to 839.		Designation of wheel bare in the case of ref. number 20... - 39... For explanation of code number, see EL-HKN / EL-SB / EL-TSB
7. - 10. digit (Ref. number 7...)			
			Consecutive number 0000 - 9999
8. - 10. digit (Ref. number 2... / 3... / 6...)			
	000		Consecutive number 000 - 999

O
SL
AL

1 Trailing arms

General

BPW Trailing arms

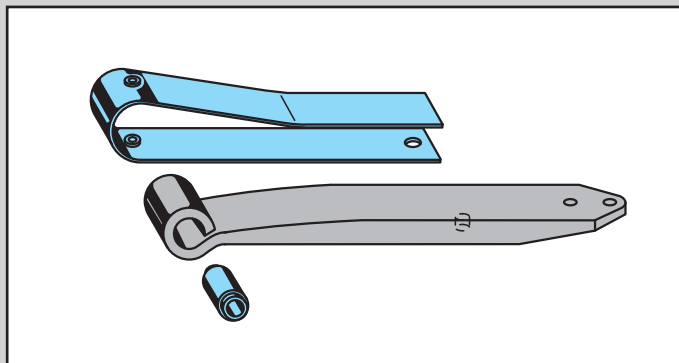
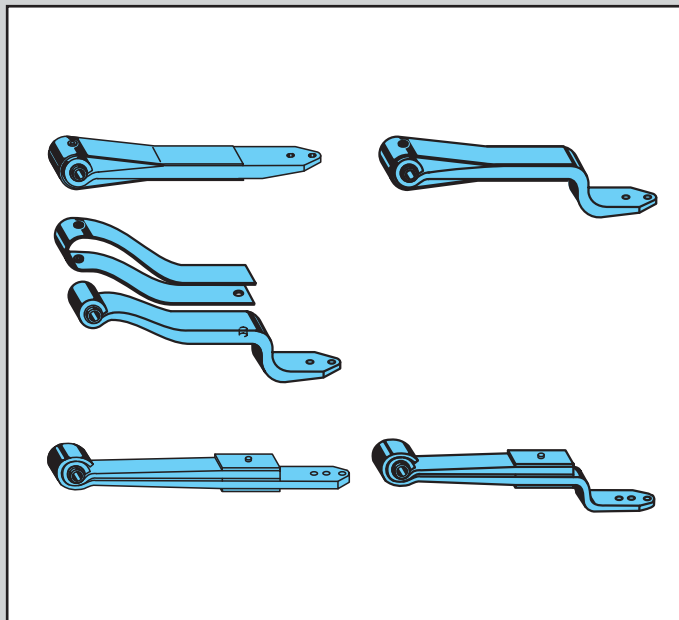
The trailing arm connects the axle to the vehicle frame via the air suspension hanger brackets and the air bag. BPW trailing arms (single or twin leaf) are highly flexible spring steel elements. They are hot-rolled from one piece, after which they are shot-peened, cathoretic dip-coated and zinc-phosphated.

Trailing arms absorb much of the flexural forces and reduce the torsional forces input into the axle beam. Various trailing arm versions permit individual equalisation – for example for axle load, track, spring centre, centre of gravity height and driving comfort. In every situation, their stiffness and flexibility are exactly matched to the vehicle and its application. This reduces the stress on the body and ensures that the vehicle achieves a long service life.

If single leaf trailing arms are mounted, the catch strap offers the necessary safety reserves if the worst should come to the worst.

Long-life steel-rubber-steel bushes (up to 4 times the service life of rubber-steel bushes) offer maintenance-free mounting of the trailing arm. The axle is precisely located, and tyre wear and operating costs are both reduced.

Spare parts for ECO Air COMPACT air suspensions see pages 172 - 176.



Conversion of spring pivot bolt

As part of the introduction of new products into series production, the spring pivot bolt connection on all Airlight II air suspension systems will be changed from **M 30** to **M 24** from September 2007 onwards.

Introducing an **M 24** pivot bolt provides greater security due to higher bolt tension being achieved. In addition the surface area of the clamped interfaces is increased.

This means the bolted connection has been made even less susceptible to settling.

The **M 24** spring bolts are Geomet-coated, removing the need for additional lubrication on new component assembly.

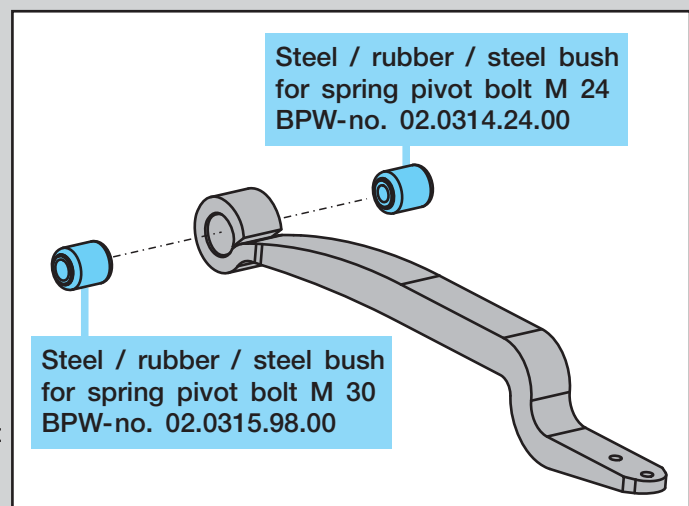
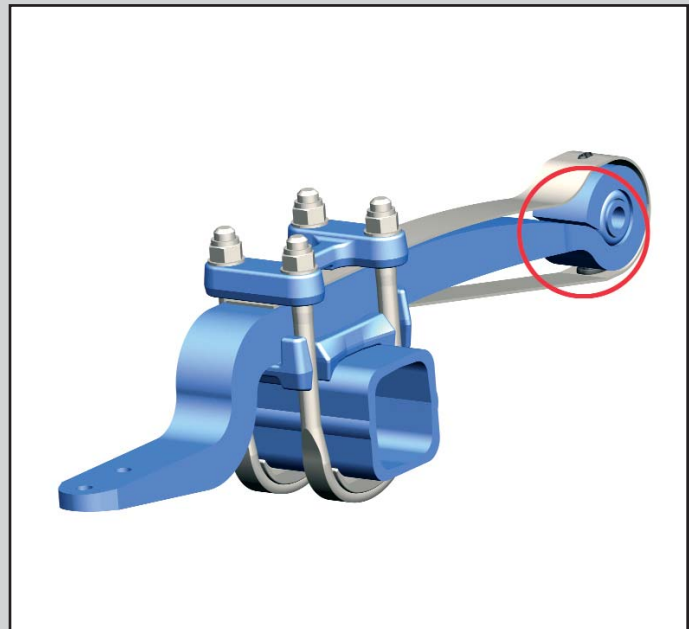
This modification affects all air suspension systems with 70 mm wide trailing arms (all Airlight II versions).

All the versions will be changed over to **M 24** at the start of series production from week 36 / 2007 onwards. Versions with **M 30** spring bolts will no longer be produced from that point onwards.

The adaptation to **M 24** spring bolts is performed by changing the spring pivot bolt assemblies, the bushes in the air suspension hanger brackets and channel cross members and the steel / rubber / steel bushes in the trailing arms.

The geometry of the actual trailing arm is not changed. As an assembly, the trailing arms with steel / rubber / steel bushes for **M 24** spring bolts are given the index **2** (example: trailing arm 05.082.13.88.0 for **M 30** spring bolt => trailing arm 05.082.13.88.2 for **M 24** spring bolt).

It is possible to adapt from the **M 30** spring bolt to the **M 24** spring bolt by changing the steel / rubber / steel bush.



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Optimised trailing arms and air bag attachment

Within the scope of a further development of the Airlight II air suspension, BPW will be introducing new optimised trailing arms from 1 July 2010 as well as a centrally bolted air bag BPW 30 / 30 K for offset $V = 20$ mm.

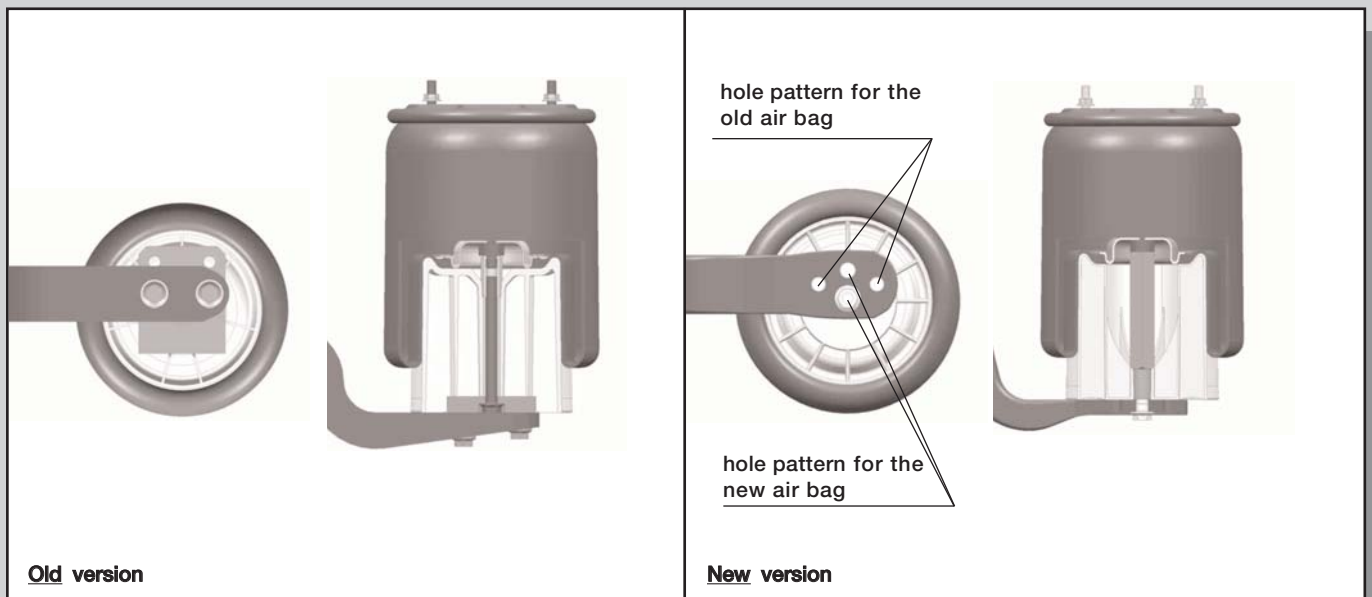
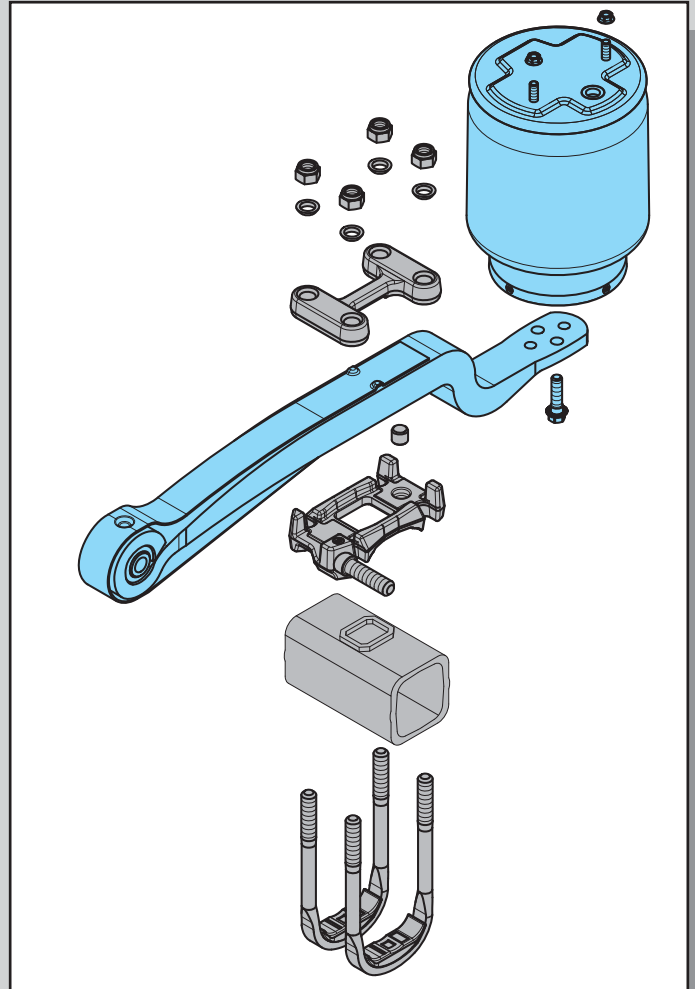
A four-hole pattern will be drilled into the new trailing arm and the air bag will be bolted directly onto the trailing arm with a single bolt.

In addition to the new centrally bolted air bag, the familiar air bags BPW 30 / 30 K and BPW 36 / 36 K / 36-1 can continue to be attached using a steel plate and different offsets.

Note: Please note that the new air bag can only be combined with the new trailing arm.

It is impossible to mount a new air bag onto an old trailing arm by mistake due to the bolt / hole diameters.

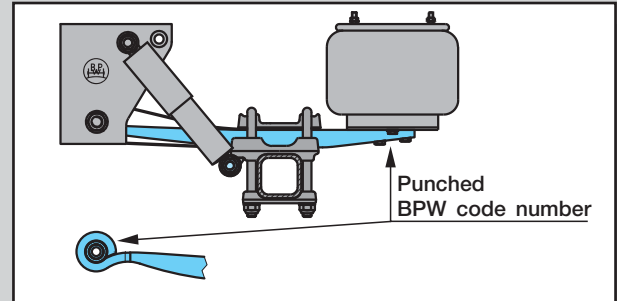
From a technical point of view, there are no restrictions to using both versions on the same axle or vehicle.



Determining replacement trailing arms

The BPW code number is punched into the underside of the trailing arm (in the area of air bag) resp. in the range of the rolled-in eye of the trailing arm.

If this identification is missing or no longer legible, the particular type of trailing arm can be determined based on the shape and the dimensions.

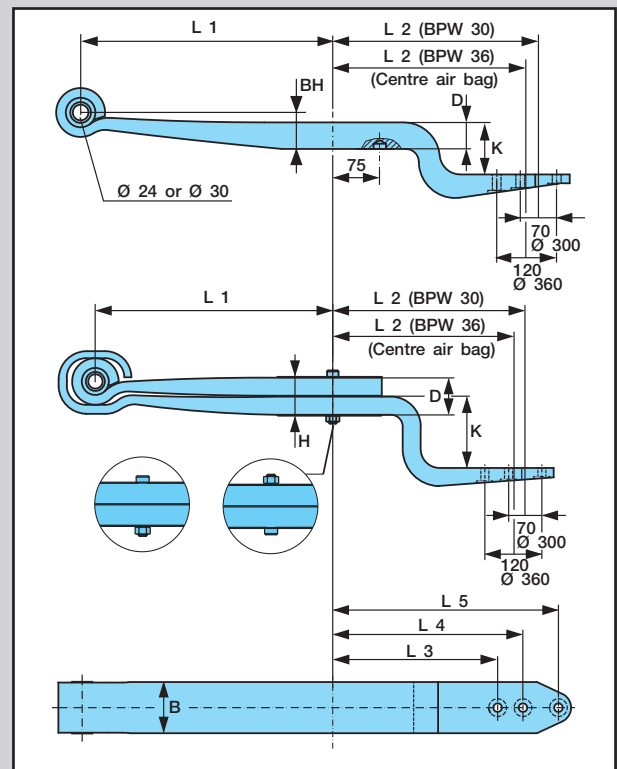


1. Clarifying design

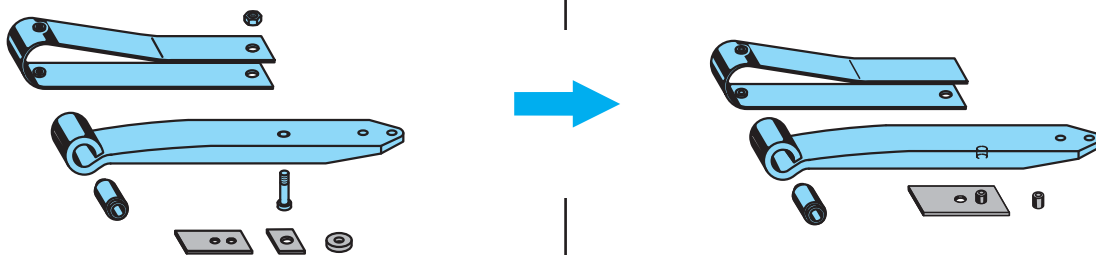
- Single layer, 3D trailing arms or two-layer trailing arms
- Spring pivot bolt \varnothing 24 or \varnothing 30
- Note the position of the spring bolt (heart-shaped pin) in two-layer trailing arms
- Measure the thickness (D) of the trailing arm and the width (B)
- Determine the offset (K) and the shape (BH)
- Measure dimension L1 (middle of spring bolt to middle of axle)
- Measure dimensions L2 to L5

Trailing arms with rubber / steel bushes fitted are no longer available. If there is a requirement for replacing them, change to trailing arms with steel / rubber / steel bushes!

Rubber / steel bushes cannot be replaced by steel / rubber / steel bushes!



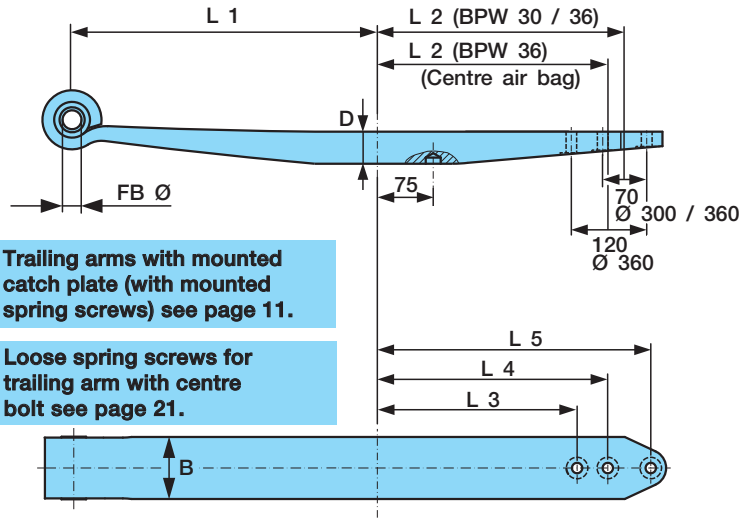
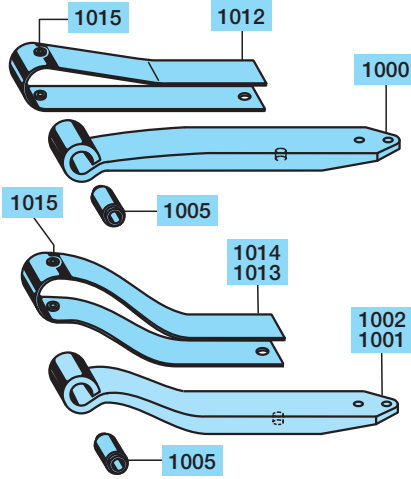
Single layer trailing arms with catch plate fitted (with spring screw fitted) are replaced by trailing arms with a loose catch plate.



When changing to trailing arms with loose catch plate, use tracking plate or pin. See also page 49

1.1 Trailing arms

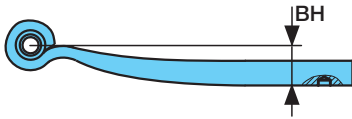
Straight single leaf trailing arms



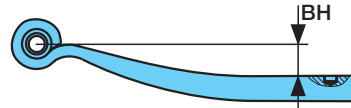
Trailing arms with mounted catch plate (with mounted spring screws) see page 11.

Loose spring screws for trailing arm with centre bolt see page 21.

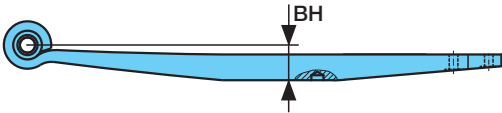
A 1



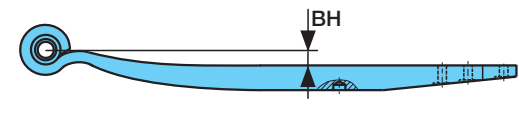
A 2



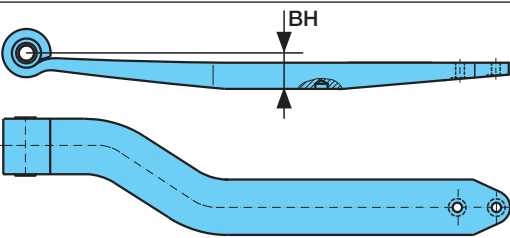
A 3



A 4



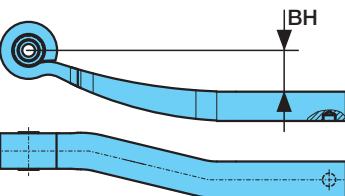
A 5



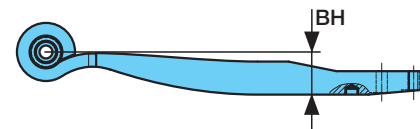
A 6



A 7



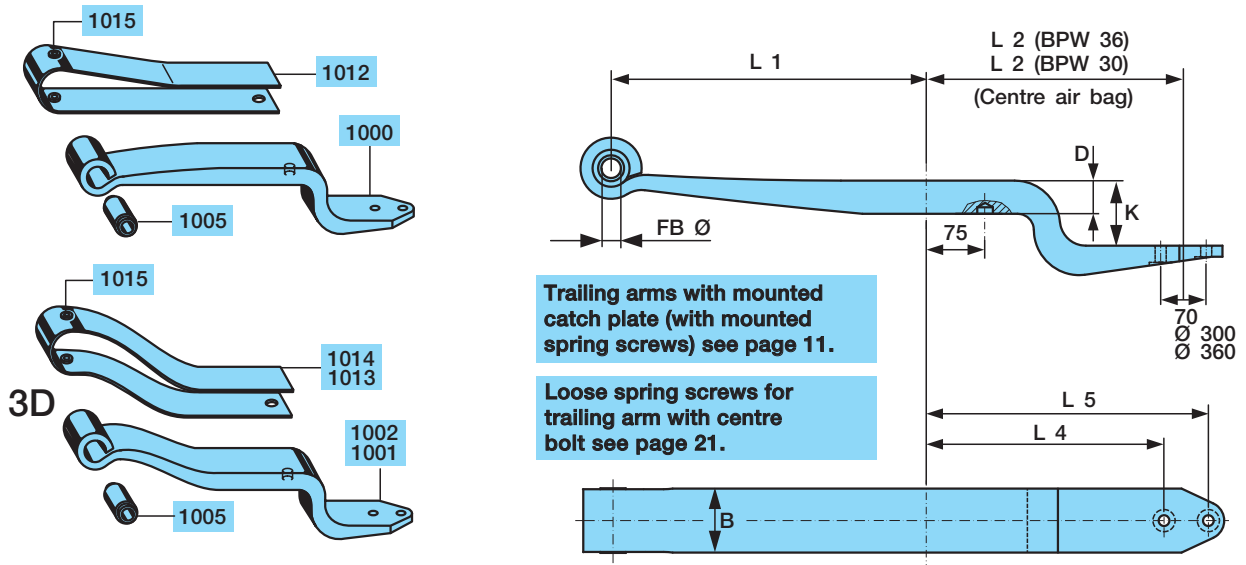
A 8



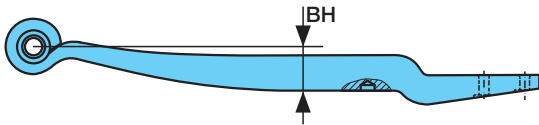
Straight single leaf trailing arms											
Dimensions										BPW Code no.	
Fig.	D	BH	L 1	BPW 36 BPW 30 L 2	BPW 36 L 2	L 3	L 4	L 5	FB Ø	Trailing arm Item 1000 Item 1001 / 1002 3D	Suitable catch strap Item 1012 Item 1013 / 1014 3D
70 mm wide (B)											
A 2	1 x 53	79	500	-	-	-	-	-	30	05.082.14.03.0	05.348.30.57.0
									24	05.082.14.03.2	
A 3	1 x 62	80	550	310	-	-	275	345	30	05.082.14.22.0	05.348.30.54.0
									24	05.082.14.22.2	
A 8	1 x 62	80	500	330			130	190	24	05.082.14.28.2	05.348.30.58.0
70 mm wide (B) - 3D-Trailing arm											
A 7	1 x 56	79	500	-	-	-	-	-	30	05.082.14.11.0 L 05.082.14.10.0 R	05.348.30.51.0 L 05.348.30.50.0 R
									24	05.082.14.11.2 L 05.082.14.10.2 R	
100 mm wide (B)											
A 1	1 x 48	70	500	-	-	-	-	-	30	05.082.13.85.0	05.348.30.05.0
A 3				310	-	-	275	345		05.082.12.92.0	
A 4	23	380	355	295	345	415	05.082.13.71.0				
A 3	310	-	-	275	345	05.082.13.48.0					
A 3	1 x 51	70	500	380	355	295	345	415		05.082.13.37.0 *	05.348.30.14.0
A 3				05.082.13.18.0	05.348.30.05.0						
A 6	1 x 58	11	500	-	-	-	-	-		05.082.13.99.1	
A 4	1 x 60	90	690	310	-	-	275	345		05.082.13.32.0	05.348.30.11.0
100 mm wide (B) - 3D-Trailing arm											
A 5	1 x 50	70	500	310	-	-	275	345	30	05.082.12.99.0 L 05.082.12.98.0 R	05.348.30.08.0 L 05.348.30.18.0 R
1005	Bush (steel / rubber / steel)			02.0315.98.00	Ø 30 / 60 x 72				for trailing arm width 70 mm		
				02.0314.24.00	Ø 24 / 60 x 72						
1005	Bush (steel / rubber / steel)			02.0316.90.00	Ø 30 / 57 x 102				for trailing arm width 100 mm		
	Bush (rubber / steel) ¹⁾			02.0316.06.00	Ø 30 / 60 x 102						
1015	Plug for catch strap			03.379.00.27.0							
* for steering axle											
¹⁾ for old trailing arms with rubber / steel bush											
Loose spring screws for trailing arms with centre bolt see page 21.											

1.2 Trailing arms

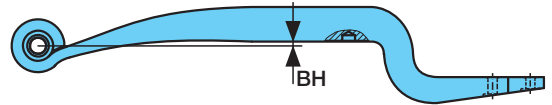
Cranked single leaf trailing arms, 70 mm wide



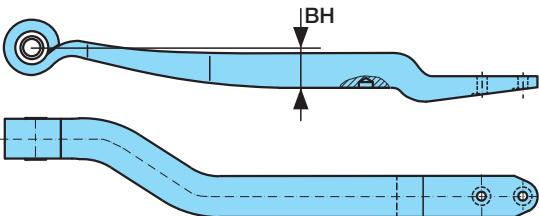
B 1



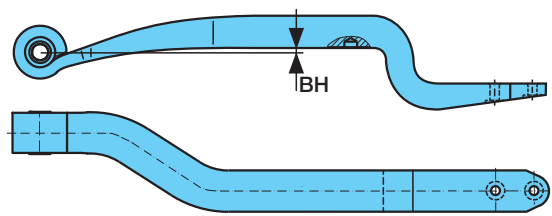
B 2



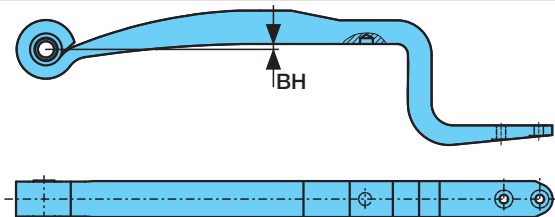
B 3



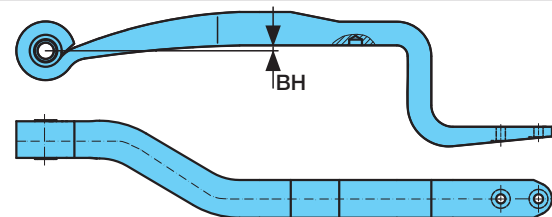
B 4



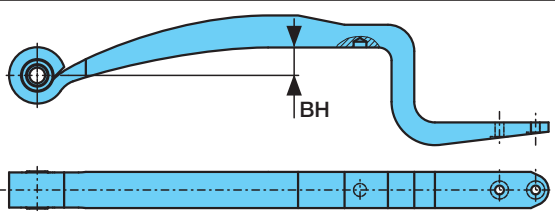
B 5



B 6



B 7



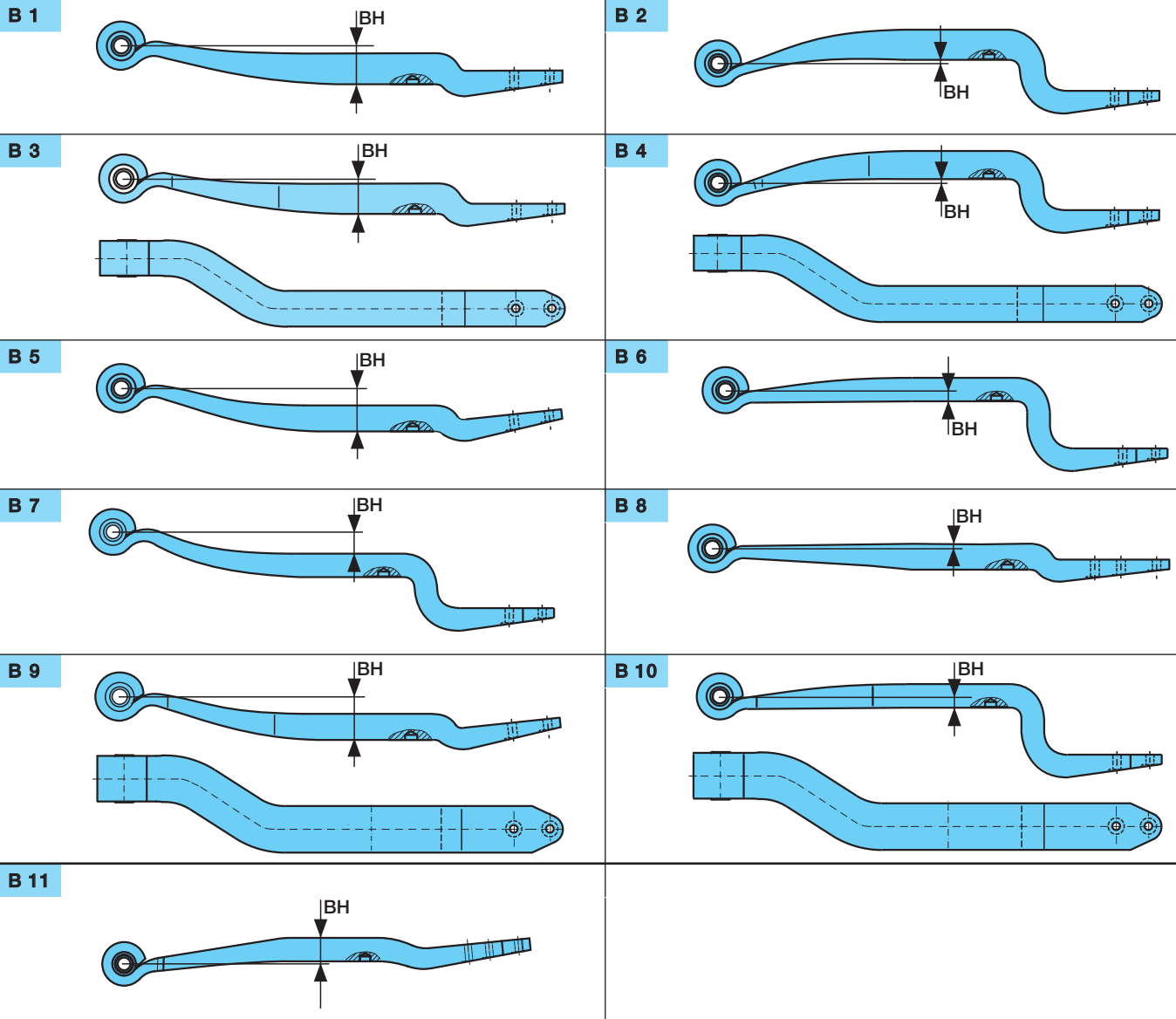
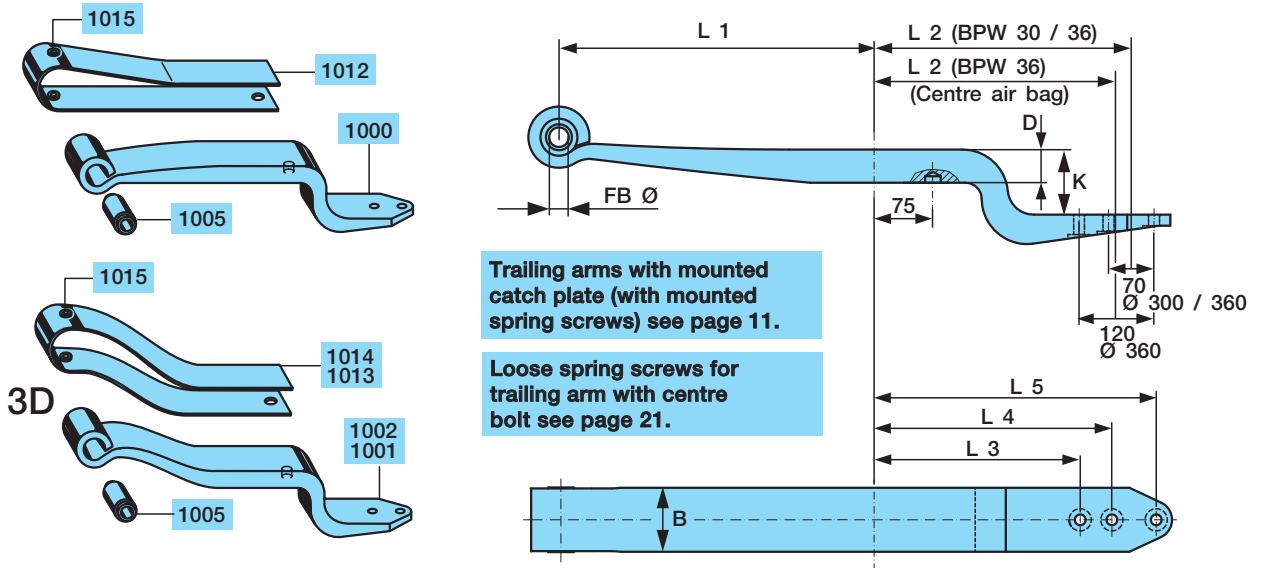
AL

Cranked single leaf trailing arms, 70 mm wide													
Dimensions								BPW Code no.					
Fig.	D	K	BH	L 1	BPW 36 BPW 30 L 2	L 4	L 5	FB Ø	Trailing arm Item 1000 Item 1001 / 1002 3D	Suitable catch strap Item 1012 Item 1013 / 1014 3D			
70 mm wide (B)													
B 1	1 x 56	30	80	500	310	275	345	30	05.082.13.90.0	05.348.30.36.0			
B 1								24	05.082.13.90.2				
B 2		100	10		380	345	415	30	05.082.13.88.0		05.348.30.37.0		
B 2								24	05.082.13.88.2				
B 2								30	05.082.14.01.0				
B 2		195	10		30	05.082.14.09.0	05.348.30.49.0						
B 5					24	05.082.14.09.2							
B 5		170	10		500	380	345	415	30			05.082.14.17.0	05.348.30.49.0
~ B 7		1 x 58	110		62	520	365	330	400		30	05.082.14.26.0	
B 2		1 x 60	205		54	550	380	345	415		30	05.082.14.08.0	05.348.30.48.0
B 1	1 x 62	30	80	500	310	275	345	30	05.082.14.02.0	05.348.30.36.0			
B 1								24	05.082.14.02.2				
B 2		110	10		380	345	415	30	05.082.13.96.0		05.348.30.37.0		
B 2								24	05.082.13.96.2				
B 2								30	05.082.13.95.0				
B 5		185	10		30	05.082.13.95.2	05.348.30.49.0						
B 5					24	05.082.14.04.0							
B 7		189	54		30	05.082.14.12.0	05.348.30.49.0						
B 7					24	05.082.14.12.2							
B 3		1 x 62	30		80	500	310	275	345		30	05.082.14.23.0 L 05.082.14.24.0 R	05.348.30.40.0 L 05.348.30.41.0 R
B 3	24			05.082.14.23.2 L 05.082.14.24.2 R									
B 3	30		80	500	380		345	415	30	05.082.13.94.1 L 05.082.13.93.1 R			
B 4									24	05.082.13.94.2 L 05.082.13.93.2 R			
B 4	110		10	500	380		345	415	30	05.082.13.92.1 L 05.082.13.91.1 R	05.348.30.38.0 L 05.348.30.39.0 R		
B 6									24	05.082.13.92.2 L 05.082.13.91.2 R			
B 6	110		10	500	380		345	415	30	05.082.14.13.0 L 05.082.14.14.0 R	05.348.30.52.0 L 05.348.30.53.0 R		
B 6									24	05.082.14.13.2 L 05.082.14.14.2 R			
1005	Bush (steel / rubber / steel)		see page 13										
Loose spring screws for trailing arms with centre bolt see page 21.													

AL

1.2 Trailing arms

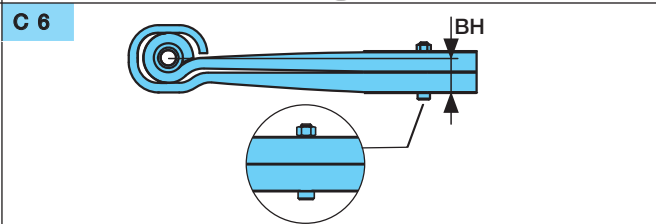
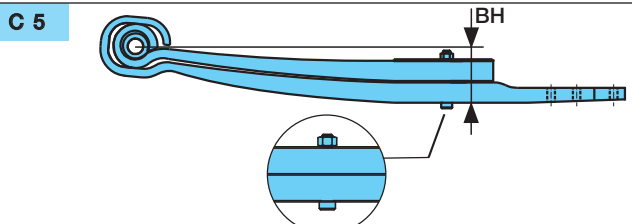
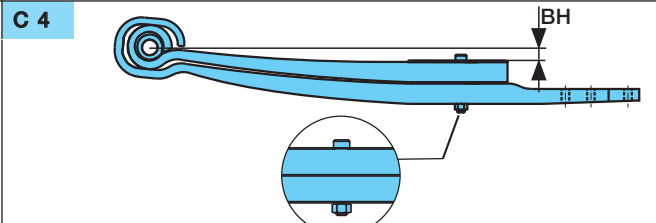
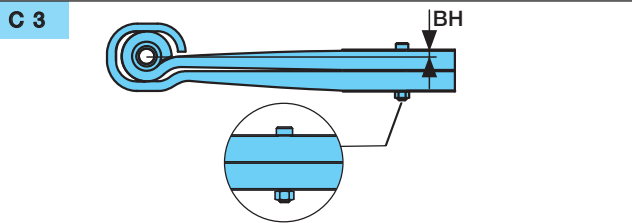
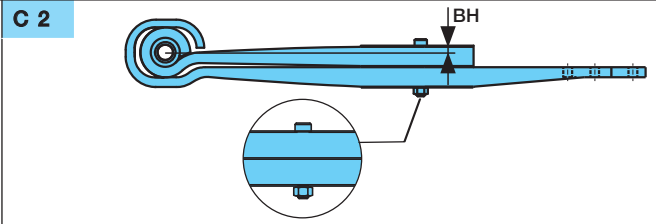
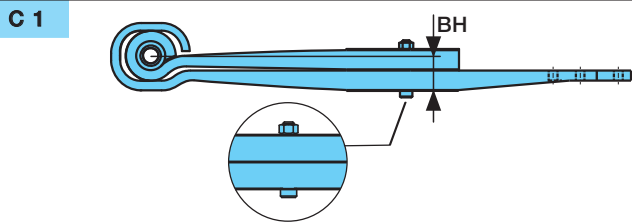
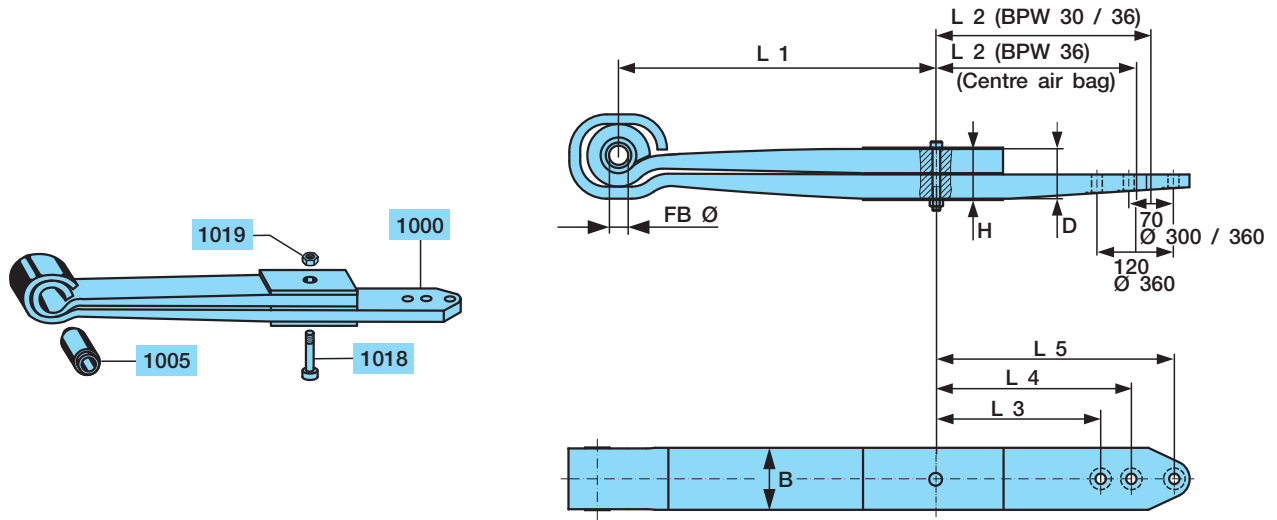
Cranked single leaf trailing arms, 100 mm wide



Cranked single leaf trailing arms, 100 mm wide																		
Dimensions										BPW Code no.								
Fig.	D	K	BH	L 1	BPW 36 BPW 30 L 2	BPW 36 L 2	L 3	L 4	L 5	FB Ø	Trailing arm Item 1000 Item 1001 / 1002 3D	Suitable catch strap Item 1012 Item 1013 / 1014 3D						
100 mm wide (B)																		
B 5	1 x 48	25	92	500	380	-	-	345	415	30	05.082.13.80.0	05.348.30.05.0						
B 1		30	70		310			275	345		05.082.13.51.0							
B 1			380		345			415	05.082.13.56.0									
B 2		100	10		380			345	415		05.082.13.52.0		05.348.30.23.0					
B 6		150	22		380			380	320		370		440	05.082.12.93.0	05.348.30.05.0			
B 7			71		405													
B 6		205	22		380			-	-		345		415	05.082.13.70.0				
B 1		1 x 51	30		70			500	310		-		-	275	345	30	05.082.13.59.0	05.348.30.05.0
B 1								550							05.082.13.67.0			
B 1															05.082.13.84.0		05.348.30.33.0	
B 2	100		10	500	380	-	-	345	415	05.082.13.68.0		05.348.30.23.0						
B 1			70							05.082.13.66.0		05.348.30.05.0						
B 6	150		22	550	380	-	-	345	415	05.082.13.19.0		05.348.30.33.0						
B 6														05.082.13.86.0				
B 1	1 x 54		30	70	500					05.082.13.74.0								
B 6			150	22						05.082.14.07.0		05.348.30.45.0						
B 8	1 x 56		30	11	500	335	-	-	300	370				05.082.14.16.0	05.348.30.05.0			
B 11	1 x 57	15	62	500	405	380	320	370	440		05.082.14.30.0	05.348.30.88.0						
B 8	1 x 58	45	11	500	380	405	295	345	415		05.082.13.75.1	05.348.30.05.0						
B 7		110	62	620	365	-	-	330	400		05.082.13.78.0	05.348.30.35.0						
B 1		163	66	500	405	380	320	370	440		05.082.13.83.1	05.348.30.05.0						
100 mm wide (B) - 3D-Trailing arm																		
B 9	1 x 50	25	92	500	380	-	-	345	415	30	05.082.13.81.0 L 05.082.13.82.0 R	05.348.30.08.0 L 05.348.30.18.0 R						
B 9		30	70	500	310	-	-	275	345		05.082.13.53.0 L 05.082.13.54.0 R							
B 9			30	70	500	380	-	-	345		415		05.082.13.77.0 L 05.082.13.76.0 R					
B 4		100	10	500	380	-	-	345	415		05.082.13.57.0 L 05.082.13.58.0 R		05.348.30.31.0 L 05.348.30.30.0 R					
B 10		150	22	500	380	-	-	345	415		05.082.13.01.0 L 05.082.13.02.0 R		05.348.30.08.0 L 05.348.30.18.0 R					
B 3											150			71	500	405	380	320
~B 10		1 x 56	45	11	500	380	405	345	415		465		05.082.14.19.0 L 05.082.14.18.0 R					
B 3													163	66	500	405	380	320
1005		Bush (steel / rubber / steel) Bush (rubber / steel) ¹⁾				02.0316.90.00 Ø 30 / 57 x 102 02.0316.06.00 Ø 30 / 60 x 102					for trailing arm width 100 mm							
1015		Plug for catch strap				03.379.00.27.0												
¹⁾ for old trailing arms with rubber / steel bush Loose spring screws for trailing arms with centre bolt see page 21.																		

1.3 Trailing arms

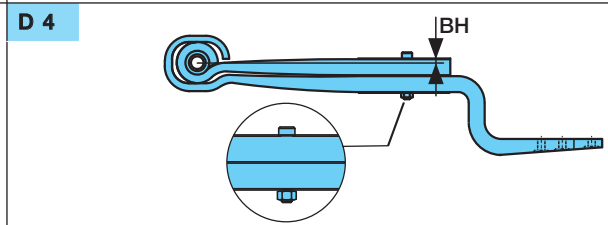
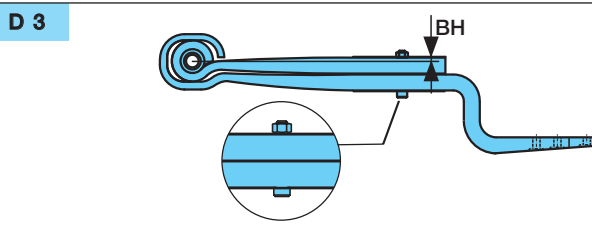
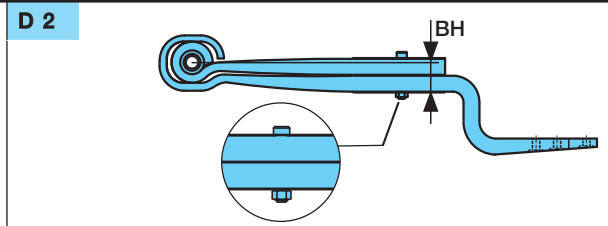
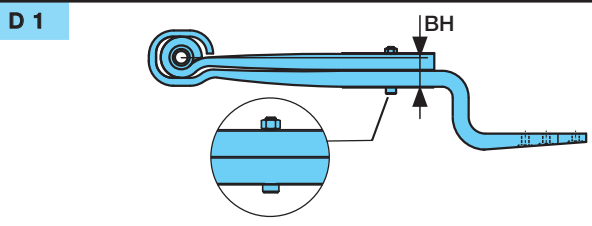
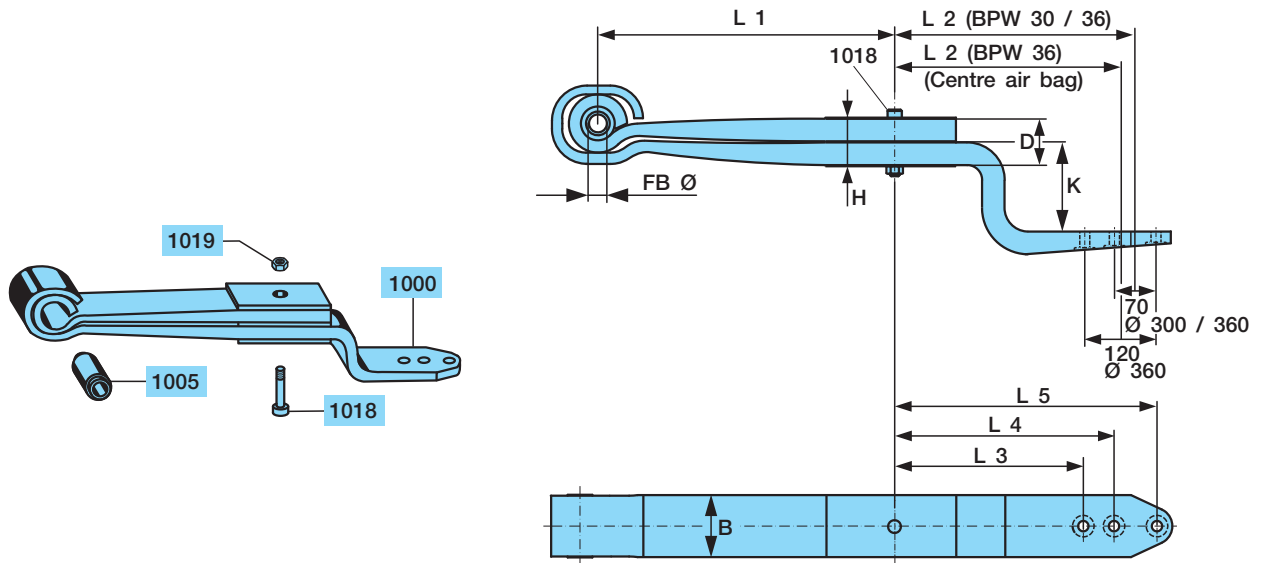
Straight double leaf trailing arms



Straight double leaf trailing arms, 100 mm wide																	
Dimensions										BPW Code no.							
Fig.	D	H	BH	L 1	BPW 36 BPW 30 L 2	BPW 36 L 2	L 3	L 4	L 5	FB Ø	Trailing arm Item 1000	Centre bolt Item 1018					
100 mm wide (B)																	
C 1	2 x 33	72	69	500	335	310	250	300	370	30	05.082.02.51.0	03.341.02.02.0					
C 2			3								05.082.02.94.0						
C 1			59								380		355	295	345	415	05.082.12.66.0
C 2			13														05.082.12.60.0
C 2	6	550	335	310	250	300	370	05.082.02.74.0									
C 1	2 x 38	82	69	500	335	310	250	300	370		05.082.13.08.0	03.341.02.03.0					
C 2			13		335/285						05.082.02.96.0						
C 2			13		335						05.082.02.95.0						
C 2			13		380						355		295	345	415	05.082.12.61.0	
C 1			69		05.082.12.67.0												
C 2	2 x 40	86	12	550	335	310	250	300	370		05.082.02.99.0	03.341.02.17.0					
C 2		89	15		405	380	320	370	440		05.082.13.21.0						
C 3	2 x 43	92	13	500	-	-	-	-	-	05.082.13.46.0	03.341.02.18.0						
C 1			72		335	310	250	300	370	05.082.13.87.0							
C 2			20		380	355	295	345	415	05.082.12.11.0							
C 1			79		05.082.12.68.0												
C 2			13		05.082.13.36.0												
C 3		95	15	550	-	-	-	-	-	05.082.13.65.0							
C 1			72		335	310	250	300	370	05.082.02.62.0							
C 1			78		405	380	320	370	440	05.082.13.07.0							
C 2			14		475	450	390	440	510	05.082.12.83.0							
C 1			78		05.082.12.94.0												
C 2	14	05.082.12.85.0															
C 4	2 x 45	94	31	690	335	310	250	300	370	05.082.13.20.0	03.341.02.15.0						
C 6	2 x 51	108	86	550	-	-	-	-	-	05.082.14.15.0	03.341.02.04.0						
C 1			86		475	450	390	440	510	05.082.14.05.0							
C 2			22		05.082.14.06.0												
C 5		106	137	690	335	310	250	300	370	05.082.13.79.0							
C 4			31		05.082.13.63.0												
C 1	2 x 54	114	100	720	345	320	260	310	380	05.082.13.05.0	03.341.02.32.0						
C 2			14		05.082.13.10.0												
C 6			100		-	-	-	-	-	05.082.14.27.0							
1005	Bush (steel / rubber / steel) Bush (rubber / steel) ¹⁾					02.0316.90.00	Ø 30 / 57 x 102		for trailing arm width 100 mm								
						02.0316.06.00	Ø 30 / 60 x 102										
1019	Hexagon nut (for centre bolt item 1018)					02.5202.20.80	M 16 / 934-8										
¹⁾ for old trailing arms with rubber / steel bush																	

1.4 Trailing arms

Cranked double leaf trailing arms, 100 mm wide



Cranked double leaf trailing arms, 100 mm wide												BPW Code no.									
Dimensions												Trailing arm Item 1000	Centre bolt Item 1018								
Fig.	D	H	K	BH	L 1	BPW 36 BPW 30 L 2	BPW 36 L 2	L 3	L 4	L 5	FB Ø										
100 mm wide (B)																					
D 1	2 x 33	72	100	68	470	390	365	305	355	425	30	05.082.02.66.0	03.341.02.02.0								
D 2						340 / 390						05.082.02.97.0									
D 1			150	72	500	405	380	320	370	440		05.082.12.63.0									
D 1	2 x 38	82	100	68	470	390	365	305	355	425		05.082.13.26.0	03.341.02.03.0								
D 4				14								05.082.12.43.0									
D 1				150								72		500	405	380	320	370	440	05.082.12.64.0	
D 3	2 x 40	86	50	14	550	405	380	320	370	440		05.082.12.88.0	03.341.02.17.0								
D 1				72								05.082.12.77.0									
D 2				120								14		05.082.02.45.0							
D 2				89								15		720	05.082.13.23.0						
D 1				86								150		72	550	05.082.12.84.0					
D 4	2 x 43	92	50	13	500	380	355	295	345	415		05.082.13.60.0	03.341.02.18.0								
D 1											74	05.082.13.24.0									
D 4											95	120		21	550	405	380	320	370	440	05.082.13.34.0
D 1											92	150		72	05.082.13.33.0						
1005	Bush (steel / rubber / steel) Bush (rubber / steel) ¹⁾					02.0316.90.00	Ø 30 / 57 x 102	for trailing arm width 100 mm													
						02.0316.06.00	Ø 30 / 60 x 102														
1019	Hexagon nut (for centre bolt item 1018)					02.5202.20.80	M 16 / 934-8														

¹⁾ for old trailing arms with rubber / steel bush

Loose spring screws for trailing arms with centre bolt		
Trailing arm thickness incl. catch strap H	Dimensions	Centre bolt (Item 1018) BPW Code no.
1 x 40	M 16 x 60-8.8	03.341.02.06.0
1 x 48	M 16 x 70-8.8	03.341.02.31.0
1 x 50	M 16 x 75-8.8	03.341.02.14.0
2 x 33	M 16 x 90-8.8	03.341.02.02.0
2 x 38	M 16 x 100-8.8	03.341.02.03.0
2 x 40	M 16 x 105-8.8	03.341.02.17.0
2 x 43	M 16 x 110-8.8	03.341.02.18.0
2 x 45	M 16 x 115-8.8	03.341.02.15.0
2 x 48	M 16 x 120-8.8	03.341.02.30.0
2 x 51	M 16 x 130-8.8	03.341.02.04.0
2 x 54	M 16 x 135-8.8	03.341.02.32.0
2 x 65	M 16 x 165-8.8	03.341.02.16.0
Hexagon nut (Item 1019) for centre bolt		02.5202.20.80 M 16 / 934-8

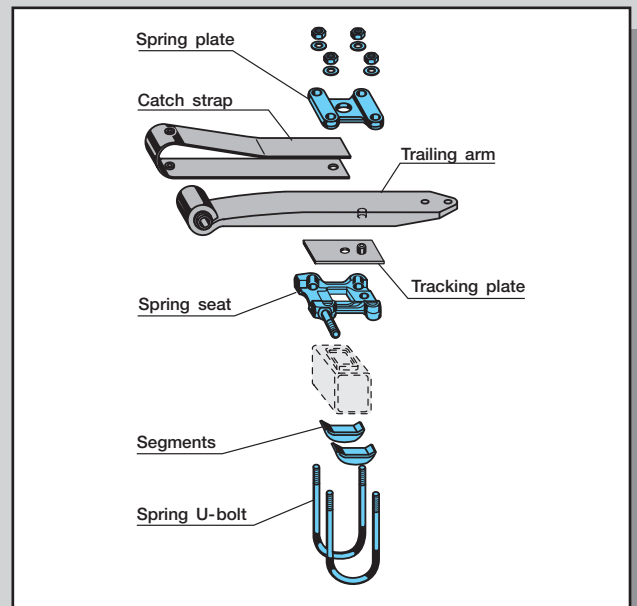
2 Spring seats, axle clampings

General

BPW Axle clampings

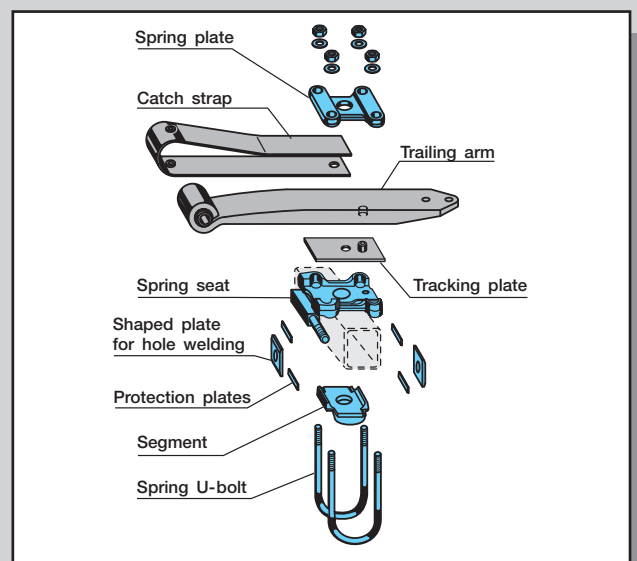
The axle is connected to the trailing arm using the axle connection comprising: spring plates, spring pads, segments and U-bolts.

Clamped, positive-locking axle connections ensure an even force transfer into the axle appropriate to the degree of load. This is only possible with square axle beams which therefore offer a long service life. The connection parts are attached at the reinforced corners of the axle beam (no welded connection). Due to the modular construction a service-friendly repair is guaranteed.



Welded axle mountings are mainly used with a round axle cross section, steering axles as well as heavy-duty air suspension systems.

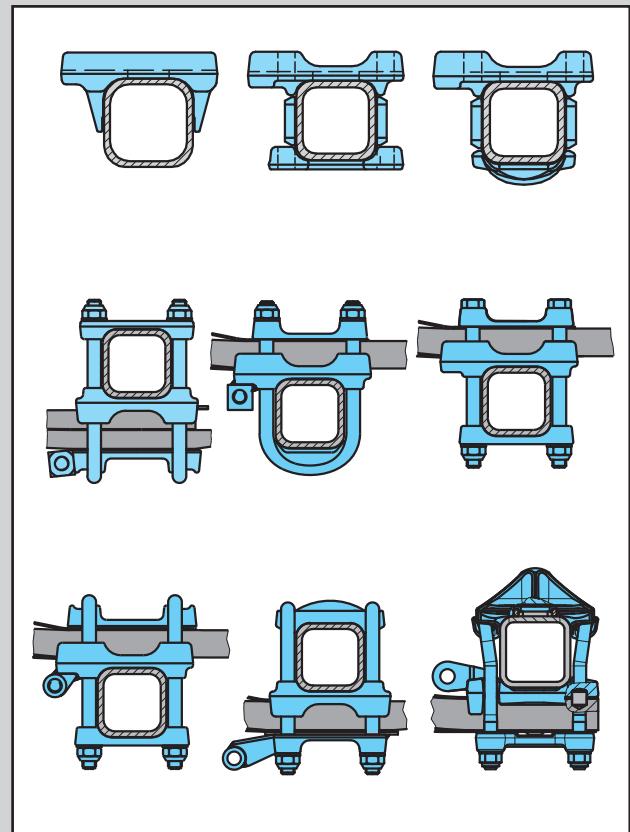
Spare parts for ECO Air COMPACT air suspensions see pages 172 - 176.



Determining axle mountings

1. Clarifying design

- Trailing arm 70 mm or 100 mm wide
- Axle cross section $\varnothing 127 / \square 120 / \square 150$
- Axle spring seat assembly clamped or welded
- Round centring ring or square frame with clamped axle mounting
- Spring seats with centring ring
- Shock absorber attachment:
 - Spring seat without shock absorber attachment
 - Spring seat with welded pin for shock absorber mounting or spring seat for shock absorber mounting
- Trailing arm mounted from above or from below
- Spring U-bolts or screws
- U-bolt encloses axle beam or is positioned to the side
- Spring U-bolts or bolts fitted from the top or bottom
- Single or double segments



Tracking plates

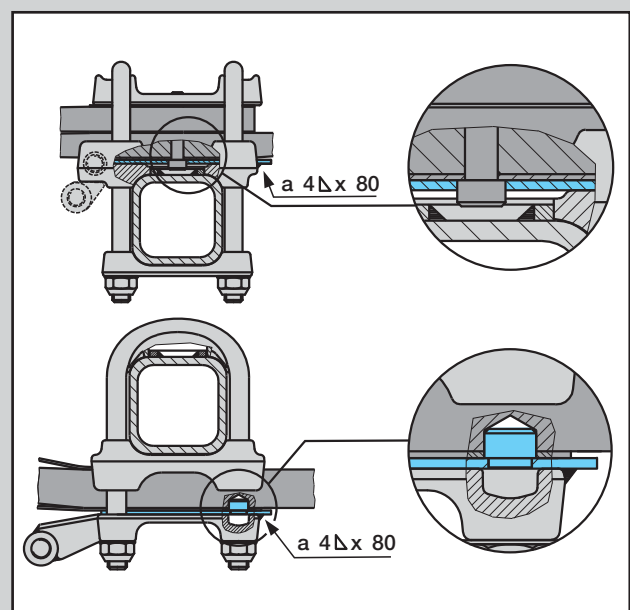
Weld on tracking plates after installation and tracking of the air suspension axles on the vehicle at the rear end of the spring seats or spring plates -
Weld a 4 Δ x 80.

Do not weld the trailing arms !

Follow the welding guidelines given in the BPW installation instructions!

Important for all welding work !

The trailing arms, air bags and plastic pipings should be protected against sparks and weld splashes during all welding work. The earth terminal must under no circumstances be attached to the trailing arm or hub.

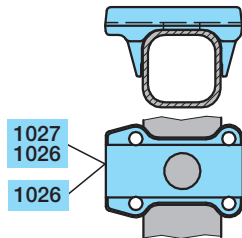


2.1 Welded axle spring seat assembly

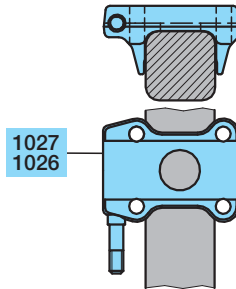
Spring seats for welded axle spring seat assembly

Spring seats with welding lug

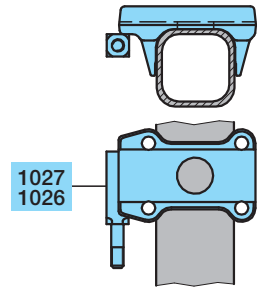
A 1



A 2

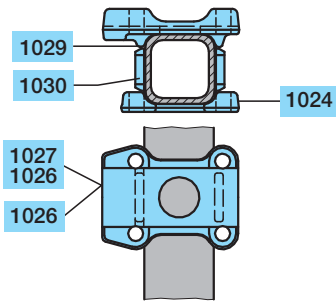


A 3

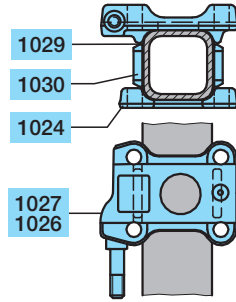


Spring seats with counter-lugs

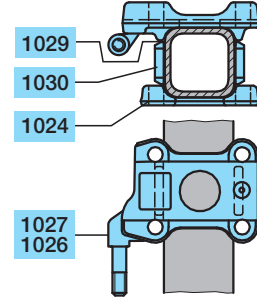
B 1



B 2

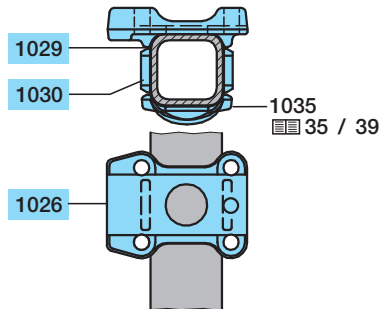


B 3

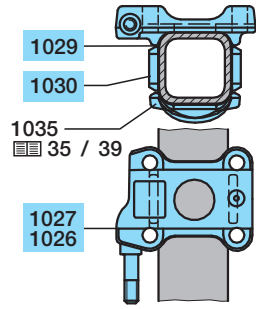


Spring seats with segments

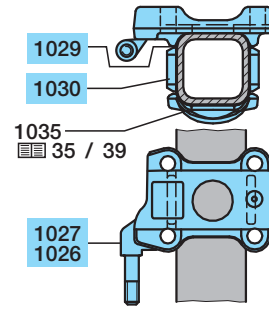
B 1



B 2

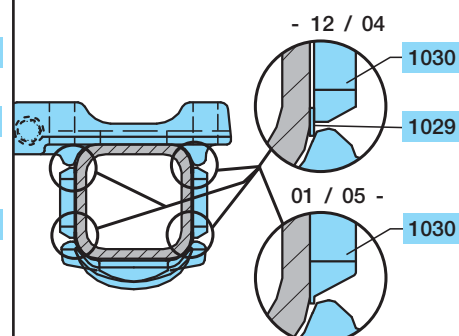
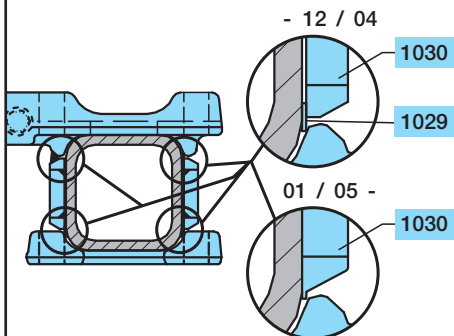


B 3



Spring seats with counter-lugs

Spring seats with segments



Welded axle spring seat assembly 2.1

Spring seats for welded axle spring seat assembly											
Spring seats, trailing arm 100 mm wide above mounted											
			Spring seat without shock absorber attachment Exec. A OM / VO ..			Spring seat with shock absorber attachment Exec. B OR 1..			Spring seat with shock absorber attachment Exec. C OR 2..		
Item	Designation	AB	BPW Code no.	Fig.	BPW Code no.	Fig.	BPW Code no.	Fig.	BPW Code no.	Fig.	
			OM / VO 1 / VO 1F / VO 13			OR 1 / OR 13 / OR 14			OR 2 / OR 2 F / OR 23		
1026	Spring seat, above	□ 120	03.032.18.76.0	2x A 1							
1026	Spring seat, above	■ 120	03.032.18.99.0	2x A 1							
1026	Spring seat, above right	□ 120		A 1	Steering axle			Steering axle			
1027	Spring seat, above left	■ 120		A 1	05.032.27.14.0	1x A 2	05.032.27.11.0	1x A 3			
					05.032.27.15.0	1x					
1026	Spring seat, above right	■ 120	Steering axle			Steering axle			Steering axle		
1027	Spring seat, above left	■ 120	03.032.18.54.0	1x A 1			05.032.27.06.0	1x A 3			
			03.032.18.53.0	1x			05.032.27.05.0	1x			
1026	Spring seat, above	□ 150	03.032.19.87.0	2x A 1							
1024	Spring seat, below (counter-lug)	□ 120	03.032.17.05.1	2x	03.032.17.05.1	2x	03.032.17.05.1	2x			
		□ 150	03.032.19.26.0	2x	03.032.19.26.0	2x	03.032.19.26.0	2x			
		∅ 127	03.032.38.13.0	2x	03.032.38.13.0	2x	03.032.38.13.0	2x			
1026	Spring seat, above right	■ 120	Steering axle			Steering axle			Steering axle		
1027	Spring seat, above left	■ 120	03.032.18.54.0	1x B 1							
			03.032.18.53.0	1x							
1026	Spring seat, above right	□ 120	03.032.21.46.8	1x B 1	05.032.21.50.8	1x B 2	05.032.21.52.0	1x B 3			
1027	Spring seat, above left	■ 120	03.032.21.45.8	1x B 1	05.032.21.49.8	1x B 2	05.032.21.51.0	1x B 3			
1026	Spring seat, above	∅ 127	03.032.58.18.0	2x ~ B 1							
1026	Spring seat, above right	∅ 127			05.032.58.22.0	1x ~ B 2					
1027	Spring seat, above left	∅ 127			05.032.58.21.0	1x ~ B 2					
1026	Spring seat, above	□ 150	03.032.10.43.0	2x ~ B 1							
1026	Spring seat, above right	□ 150			05.032.10.48.0	1x B 2	05.032.10.50.0	1x B 3			
1027	Spring seat, above left	□ 150			05.032.10.47.0	1x B 2	05.032.10.49.0	1x B 3			
1029	Plate *	□ 120 □ 150	03.283.14.03.0			03.283.14.03.0			03.283.14.03.0		
1030	Formed piece Shaped plate	□ 120 □ 150	03.001.14.97.0 03.161.84.05.0			03.001.14.97.0 03.161.84.05.0			03.001.14.97.0 03.161.84.05.0		
1035	Segment	□ 120 □ 150	see page 35 / 39			see page 35 / 39			see page 35 / 39		
* Deleted in □ 120 with shaped part 03.001.14.97.0 (introduced 01 / 05). Further executions upon request.											

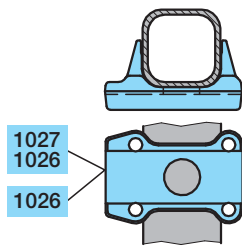
2.1 Welded axle spring seat assembly

Spring seats for welded axle spring seat assembly

□ 120 / □ 150

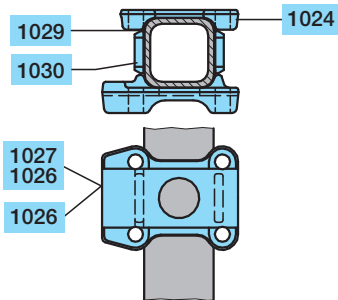
Spring seats with welding lug

A 1



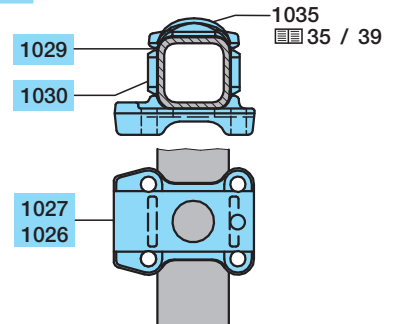
Spring seats with counter-lugs

A 2



Spring seats with segments

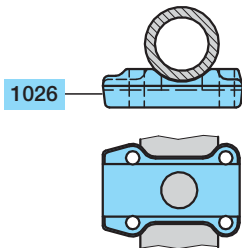
A 3



Ø 127

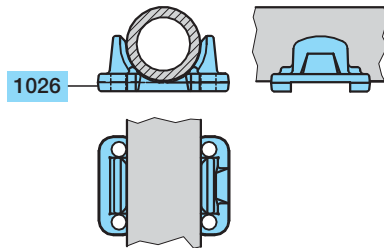
Spring seats without welding lug

B 1



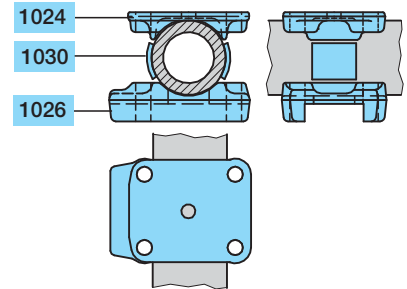
Spring seats with welding lug

B 2



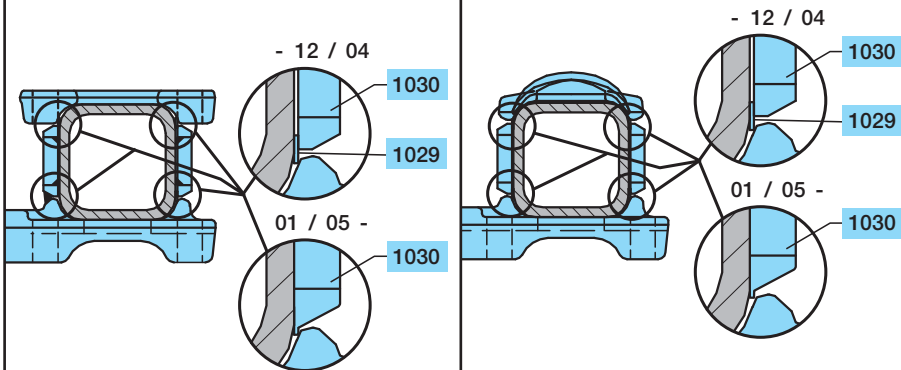
Spring seats with counter-lugs

B 3



Spring seats with counter-lugs

Spring seats with segments



Welded axle spring seat assembly 2.1

Spring seats for welded axle spring seat assembly

Spring seats, trailing arm 100 mm wide below mounted

		Spring seat without shock absorber attachment OT.. / SLU.. / ALU..				
Item	Designation	AB	BPW Code no.	Fig.	BPW Code no.	Fig.
OT.. / SLU.. / ALU..						
Spring seats with welding lug, without counter-lug						
1026	Spring seat, below	□ 120	03.032.18.76.0	2x	A 1	
1026	Spring seat, below	■ 120	03.032.18.99.0	2x	A 1	
1026	Spring seat, below	∅ 127	03.032.38.75.0	2x	B 2	
1026	Spring seat, below	□ 150	03.032.19.87.0	2x	A 1	
Steering axle						
1026	Spring seat, below left	■ 120	03.032.18.54.0	1x	A 1	
1027	Spring seat, below right		03.032.18.53.0	1x		
Spring seats without welding lug, with counter-lugs / segment						
1024	Spring seat, above (counter-lug)	□ 120		03.032.17.05.1	2x	A 2
		□ 150		03.032.19.26.0	2x	A 2
		∅ 127		03.032.38.13.0	2x	B 3
Steering axle						
1026	Spring seat, below left	■ 120		03.032.18.54.0	1x	A 2 / A 3
1027	Spring seat, below right			03.032.18.53.0	1x	
1026	Spring seat, below left	□ 120		03.032.21.06.0	1x	A 2 / A 3
1027	Spring seat, below right	■ 120		03.032.21.05.0	1x	
1026	Spring seat, below	∅ 127		03.032.58.18.0	2x	B 1 / B 3
1026	Spring seat, below	□ 150		03.032.10.44.0	2x	A 2 / A 3
1029	Plate *	□ 120 □ 150		03.283.14.03.0		
1030	Formed piece Shaped plate	□ 120 □ 150 ∅ 127		03.001.14.97.0 03.161.84.05.0 03.163.53.01.0		
1035	Segment	□ 120 □ 150		see page 35 / 39		

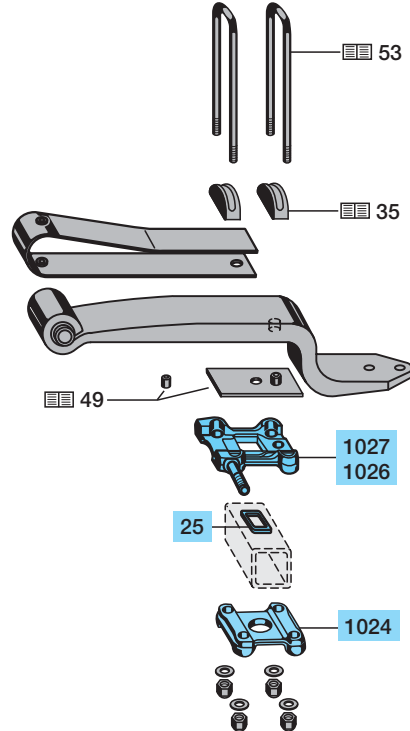
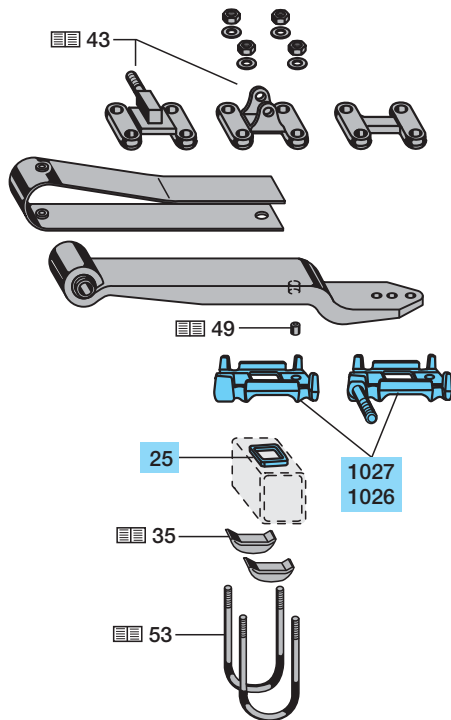
* Deleted in □ 120 with shaped part 03.001.14.97.0 (introduced 01 / 05).
Further executions upon request.

2.2 Clamped axle spring seat assembly

Spring seats for clamped axle spring seat assembly

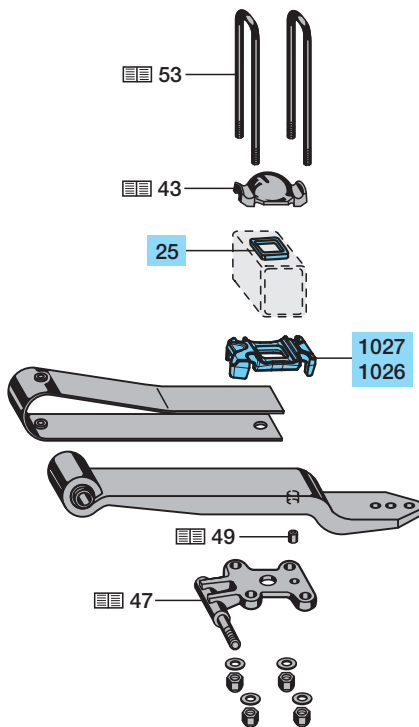
ALII

Trailing arms 70 mm wide, above mounted

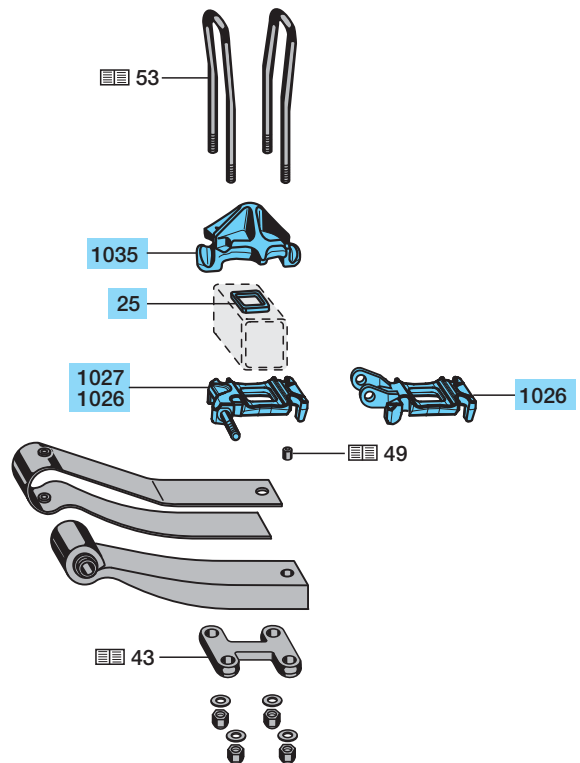


ALII

Trailing arms 70 mm wide, below mounted



Trailing arms 70 mm wide, below mounted /
Direct air suspension (Airlight^{Direct})



AL

Clamped axle spring seat assembly 2.2

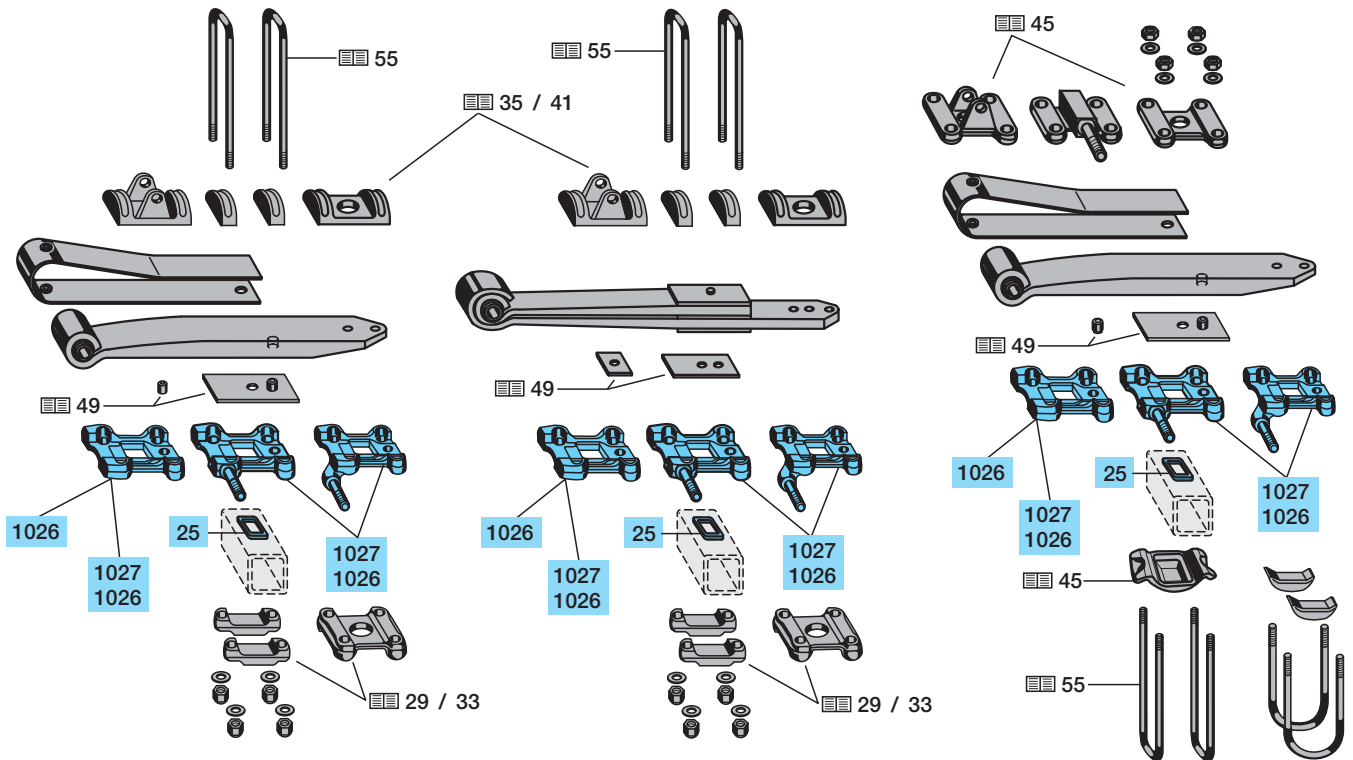
Spring seats for clamped axle spring seat assembly					
Spring seats, trailing arms 70 mm wide					
Trailing arms 70 mm wide, above mounted					
		Spring seat without shock absorber attachment Exec. A L ..		Spring seats with shock absorber attachment Exec. B LI 1..	
Item	Designation	AB	BPW Code no.	BPW Code no.	BPW Code no.
25	Profiled part (Centring frame)	<input type="checkbox"/> 120	03.295.46.21.0 *	03.295.46.21.0 *	03.295.46.21.0 *
1024	Spring seat, below		-	-	03.032.21.99.0 2x
1026	Spring seat, above right	<input type="checkbox"/> 120	03.032.21.14.0 1x	05.032.22.10.0 ¹⁾ 1x	05.032.22.10.0 ¹⁾ 1x
1027	Spring seat, above left		03.032.21.15.0 1x	05.032.22.09.0 ¹⁾ 1x	05.032.22.09.0 ¹⁾ 1x
			* Replacement for profile part (centering frame) 03.295.46.20.0		
			¹⁾ Spring seat with integrated centering bolt		
Trailing arms 70 mm wide, below mounted					
		Spring seat without shock absorber attachment		Spring seats with threaded bolts for shock absorber attachment Direct air suspension (AirlightDirect)	Spring seats with plates for shock absorber attachment Direct air suspension (AirlightDirect)
Item	Designation	AB	BPW Code no.	BPW Code no.	BPW Code no.
25	Profiled part (Centring frame)	<input type="checkbox"/> 120	03.295.46.21.0 *	03.295.46.21.0 *	03.295.46.21.0 *
1026	Spring seat, below right	<input type="checkbox"/> 120	03.032.22.06.0 ¹⁾ 1x	05.032.21.22.0 1x	
1027	Spring seat, below left		03.032.22.05.0 ¹⁾ 1x	05.032.21.23.0 1x	
1026	Spring seat, below	<input type="checkbox"/> 120	03.032.22.01.0 2x		05.032.21.41.0 2x
1035	Spring seat	<input type="checkbox"/> 120		03.032.21.38.0 2x	03.032.21.38.0 2x
			* Replacement for profile part (centering frame) 03.295.46.20.0		
			¹⁾ Spring seat with integrated centering bolt		

AL

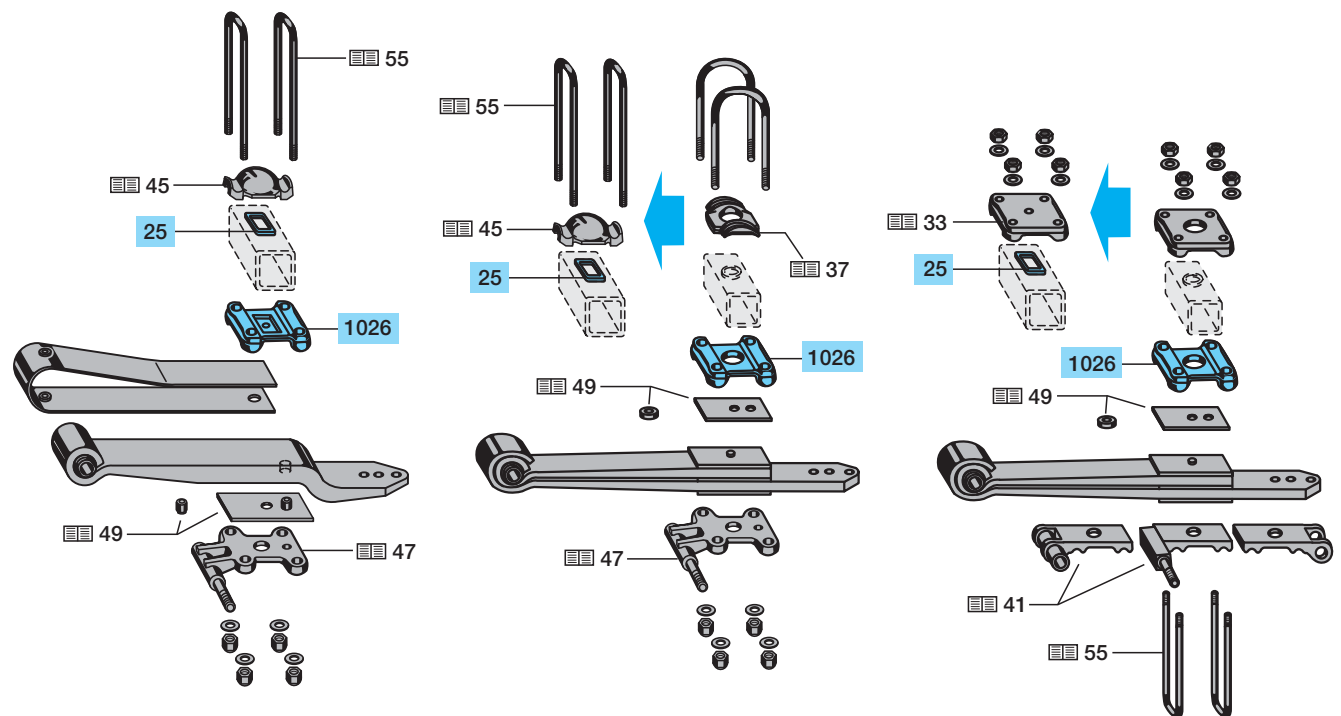
2.2 Clamped axle spring seat assembly

Spring seats for clamped axle spring seat assembly

Trailing arms 100 mm wide, above mounted



Trailing arms 100 mm wide, below mounted



SL
AL

Clamped axle spring seat assembly 2.2

Spring seats for clamped axle spring seat assembly					
Spring seats, trailing arms 100 mm wide					
Trailing arms 100 mm wide, above mounted					
			Spring seat without shock absorber attachment L ..	Spring seat with shock absorber attachment LI 1..	Spring seat with shock absorber attachment LI 2..
Item	Designation	AB	BPW Code no.	BPW Code no.	BPW Code no.
25	Profiled part (Centring frame)	<input type="checkbox"/> 120 <input type="checkbox"/> 150	03.295.46.21.0 *	03.295.46.21.0 *	03.295.46.21.0 *
1026	Spring seat, above right	<input type="checkbox"/> 120	03.032.21.58.0 1x	05.032.21.70.0 1x	05.032.21.68.0 1x
1027	Spring seat, above left	<input type="checkbox"/> 120	03.032.21.59.0 1x	05.032.21.71.0 1x	05.032.21.69.0 1x
1026	Spring seat, above right	<input type="checkbox"/> 150	03.032.11.24.0 2x	05.032.11.30.0 1x	05.032.11.32.0 1x
1027	Spring seat, above left	<input type="checkbox"/> 150	03.032.11.24.0 2x	05.032.11.29.0 1x	05.032.11.31.0 1x
			* Replacement for profile part (centering frame) 03.295.46.20.0 Further executions upon request.		
Trailing arms 100 mm wide, below mounted					
			Spring seat without shock absorber attachment LU ...		
			 214 125 150 a	 235 125 150 b	
			 240 125 150 c	 240 125 180 d	
Item	Designation	AB	BPW Code no.	Fig.	
25	Profiled part (Centring frame)	<input type="checkbox"/> 120 <input type="checkbox"/> 150	03.295.46.21.0 *		
1026	Spring seat, below	<input type="checkbox"/> 120	03.032.27.62.0 2x	a	
1026	Spring seat, below	<input type="checkbox"/> 120	03.032.21.55.0 2x	b	
1026	Spring seat, below	<input type="checkbox"/> 120	03.032.26.61.0 2x	c	
1026	Spring seat, below	<input type="checkbox"/> 150	03.032.10.77.0 2x	d	
			* Replacement for profile part (centering frame) 03.295.46.20.0 Further executions upon request.		
<p>Axle mountings with round centring ring are replaced by axle mountings with square centring frame.</p> <p>Change over if replacement is required.</p> <p>Weld new square centring frame onto the axle beam and use spring seats for square centring.</p> <p> Follow the BPW welding guidelines!</p>					

SL

AL

2.2 Clamped axle spring seat assembly

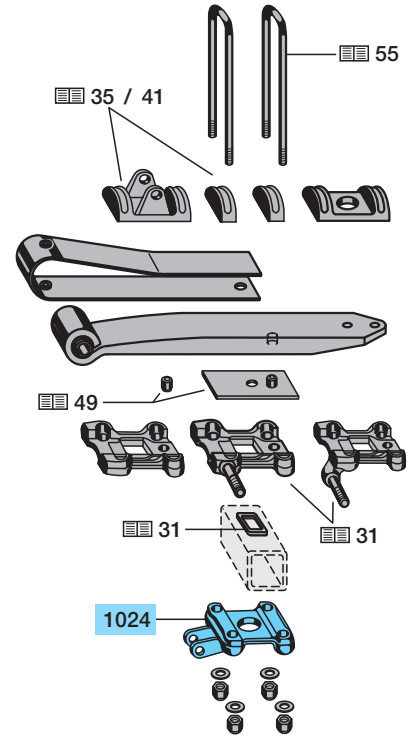
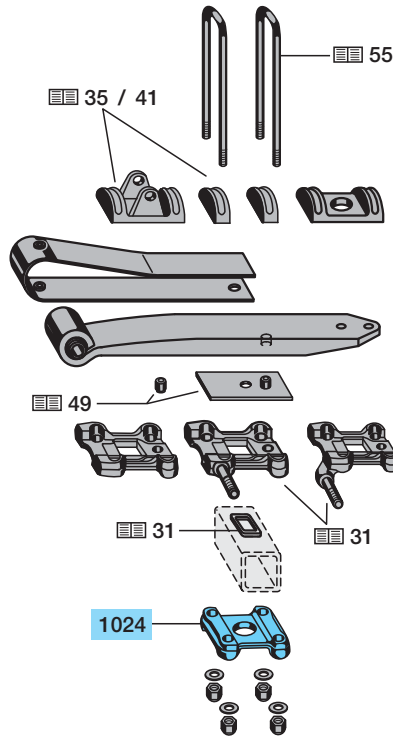
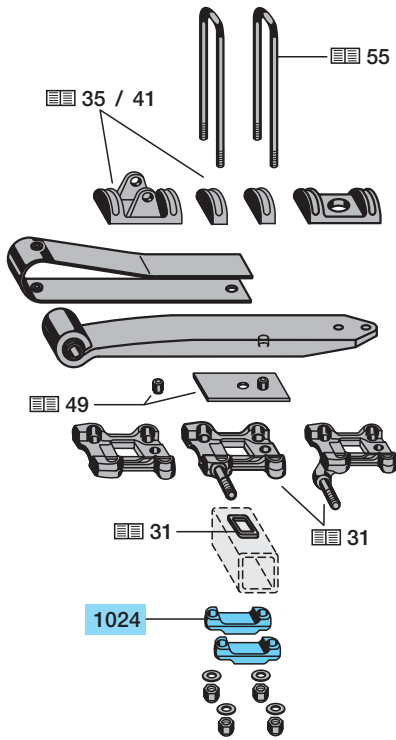
Spring seats for clamped axle spring seat assembly

Trailing arms 100 mm wide above mounted

Double bar

Spring seat

Support for U-stabilizer



SL

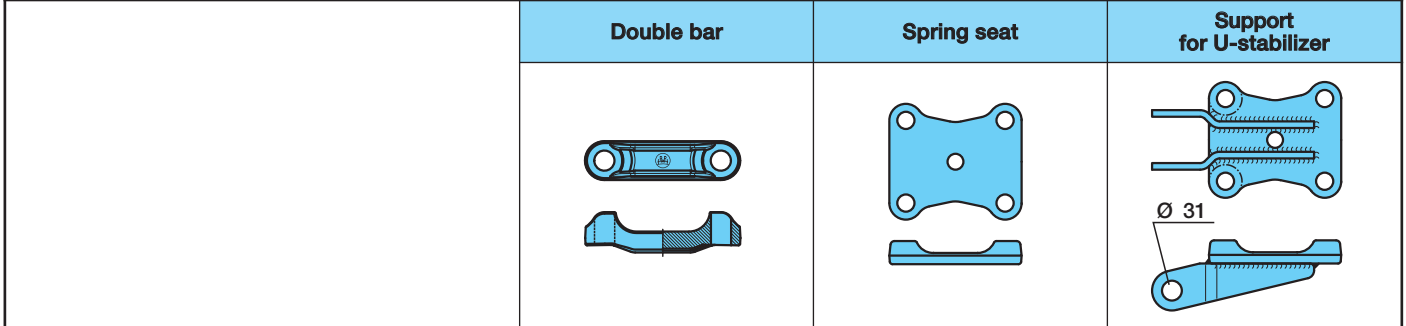
AL

Clamped axle spring seat assembly 2.2

Spring seats for clamped axle spring seat assembly

Lower spring seats, trailing arms 100 mm wide

Trailing arms above mounted



Item	Designation	AB	BPW Code no.	BPW Code no.	BPW Code no.
1024	Spring seat	<input type="checkbox"/> 120	03.032.26.62.0 4x	03.032.27.67.2 2x	
		<input type="checkbox"/> 150	03.032.11.20.0 4x	03.032.10.63.0 2x	
			Steering axle	Steering axle	
		<input type="checkbox"/> 120	03.032.26.74.0 4x	03.032.27.87.0 2x	
1024	Support	<input type="checkbox"/> 120			05.189.14.23.0 2x
		<input type="checkbox"/> 150			05.189.13.10.0 2x

Further executions upon request.

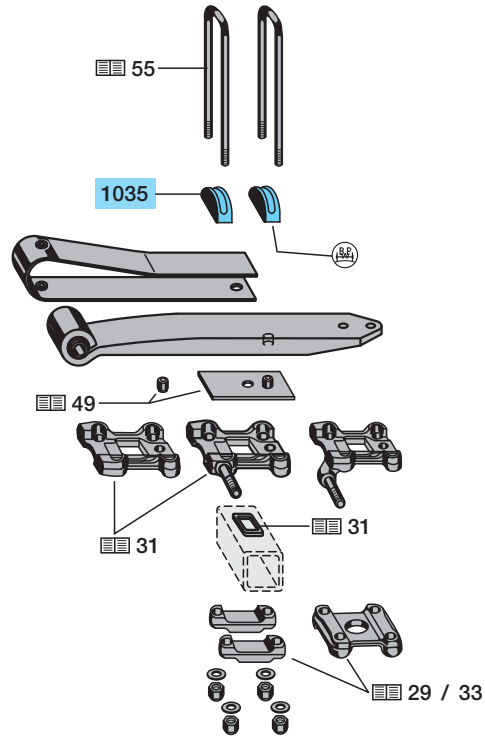
SL

AL

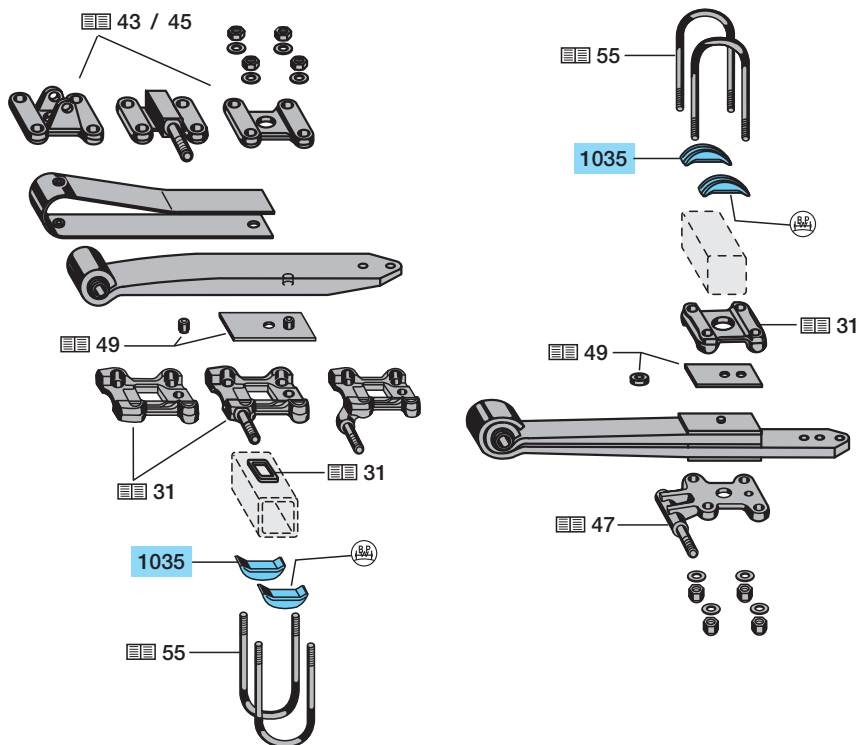
3 Spring plates, segments

Segments

Segment above the trailing arm



Segment on the axle beam



Segments					
Item	Designation	Dimensions	BPW Code no.	Application	Fig.
Single segments					
Segment above the trailing arm					
Trailing arm width 70 mm					
1035	Segment		03.345.22.02.0	□ 120	
Trailing arm width 100 mm					
			03.345.21.01.0	□ 120 □ 150	
Segment on the axle beam					
1035	Segment		03.345.23.02.1	□ 120	
			03.345.25.01.1	□ 150	
			03.345.23.09.0 ¹⁾	□ 120	
			03.345.23.12.0 ¹⁾	■ 120 solid	
			03.345.23.03.0 *	■ 120 solid	
			03.345.25.04.0 *	■ 150 solid	

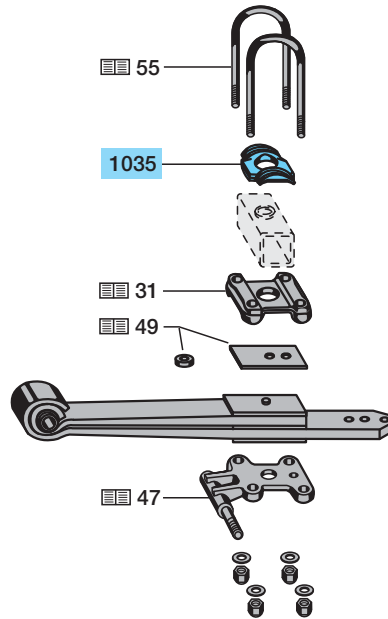
¹⁾ for flattened spring U-bolts (disc brake)

* welded on the axle beam

3 Spring plates, segments

Segments

Double segment, round centring ring, clamped axle spring seat assembly



Segments					
Item	Designation	Dimensions	BPW Code no.	Application	Fig.
Double segments					
Double segment, round centring ring, clamped axle spring seat assembly					
1035	Segment		03.345.23.05.1	□ 120	
			03.345.23.10.1 ¹⁾	□ 120	
			03.345.25.05.1	□ 150	

¹⁾ for flattened spring U-bolts (disc brake)

O

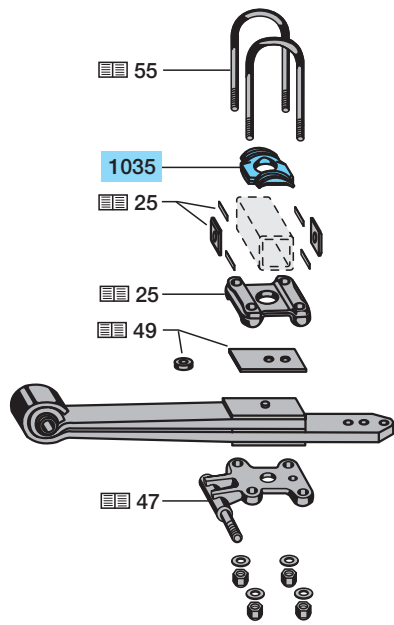
SL

AL

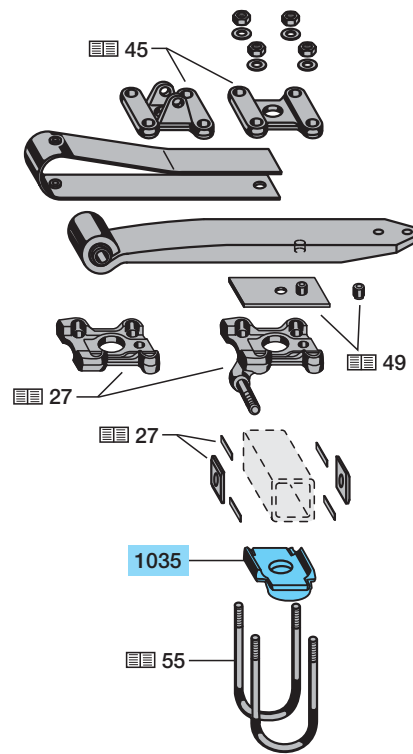
3 Spring plates, segments

Segments

Double segment on axle beam, trailing arm mounted from below, welded axle spring seat assembly



Double segment on axle beam, trailing arm mounted from above, welded axle spring seat assembly



Segments					
Item	Designation	Dimensions	BPW Code no.	Application	Fig.
Double segments					
Double segment, welded axle spring seat assembly					
1035	Segment		03.345.23.05.0	□ 120	
			03.345.23.15.1	□ 120	
			03.345.23.13.0 ¹⁾	□ 120	
			03.345.23.16.1 ¹⁾	□ 120	
			03.345.25.06.0	□ 150	

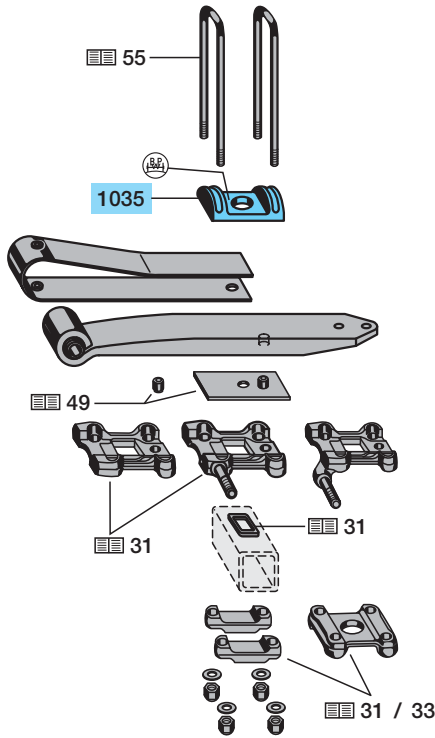
¹⁾ for flattened spring U-bolts (disc brake)

O
SL
AL

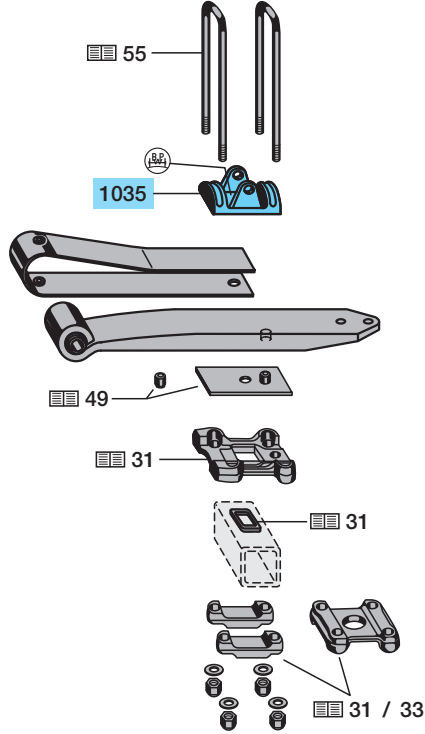
3 Spring plates, segments

Segments, Spring plates

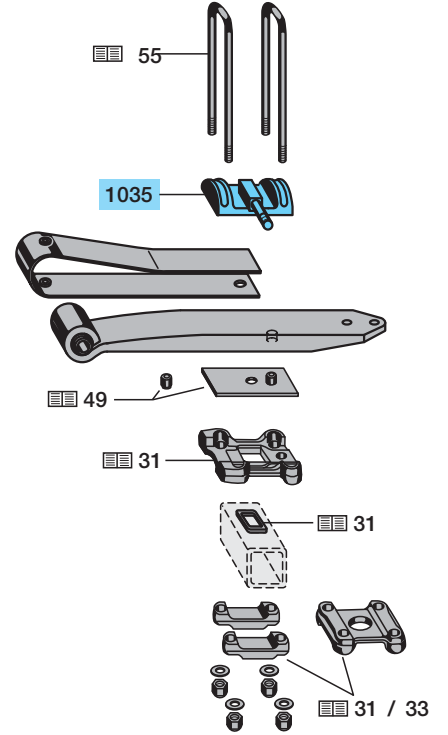
Double segment above the trailing arm



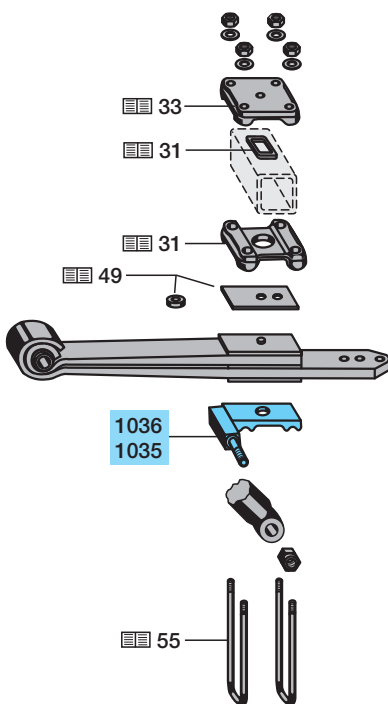
Double segment above the trailing arm for shock absorber attachment with screws



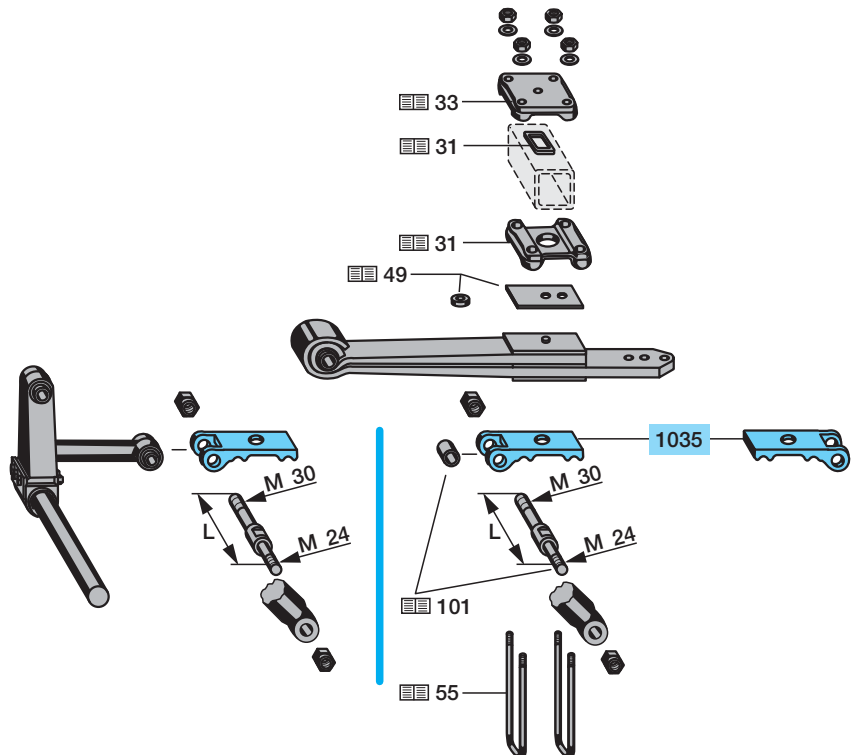
Double segment above the trailing arm for shock absorber attachment with threaded bolts



Double segment above / below the trailing arm for shock absorber attachment with threaded bolts



Double segment below the trailing arm for shock absorber attachment with threaded bolts / U-stabilizer



Segmente, Spring plates					
Item	Designation	BPW Code no.	Application	Dimensions	Fig.
Double segments, spring U-bolt next to the axle beam, trailing arms 100 mm wide					
Double segment above the trailing arm					
1035	Spring plate	03.145.10.39.0	□ 120	x = 150	
		03.145.10.40.0	□ 150	x = 180	
Double segment above the trailing arm for shock absorber attachment with screws					
1035	Spring plate	03.145.10.36.0	□ 120 / □ 150	x = 150 / 180	
		03.145.10.41.0	□ 120 / □ 150	x = 150 / 180	
Double segment above the trailing arm for shock absorber attachment with threaded bolts					
1035	Spring plate	05.145.10.42.0	□ 120 / □ 150	x = 150 / 180	
Double segment above / below the trailing arm for shock absorber attachment with threaded bolts					
1035	Spring plate, left	05.145.10.23.0	□ 120 / □ 150	x = 150 / 180	
1036	Spring plate, right	05.145.10.22.0			
Double segment below the trailing arm for shock absorber attachment with threaded bolts / U-stabilizer					
1035	Spring plate	03.145.10.21.0	□ 120 / □ 150	x = 150 / 180	
1035	Spring plate, left	05.145.10.35.0	□ 120 / □ 150	x = 150 / 180	
1036	Spring plate, right	05.145.10.34.0			

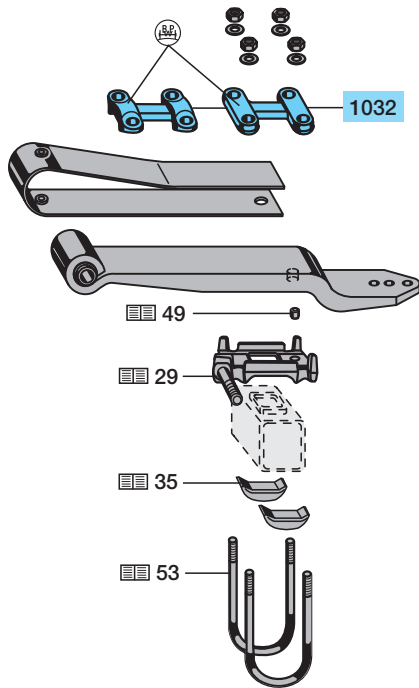
Further executions upon request.

3 Spring plates, segments

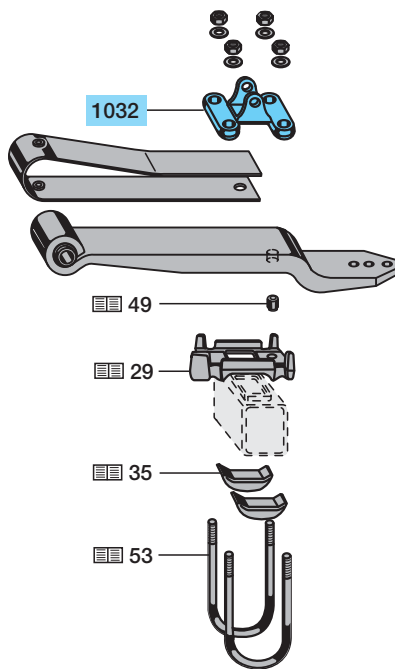
Spring plates

Spring U-bolts mounted from below, trailing arms 70 mm wide (AL II) mounted from above

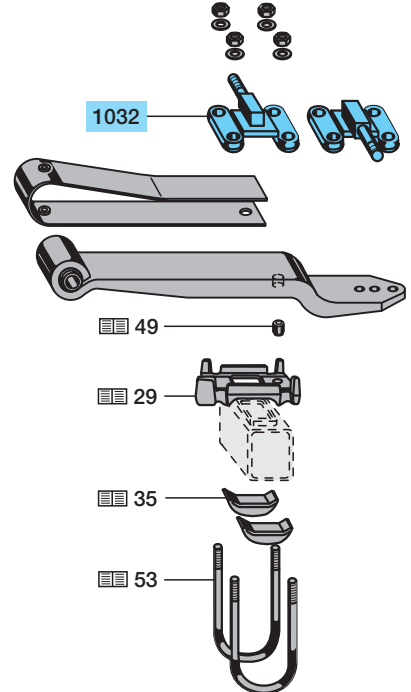
Spring U-bolts mounted from below



Spring U-bolts mounted from below, spring plate for shock absorber attachment with screws



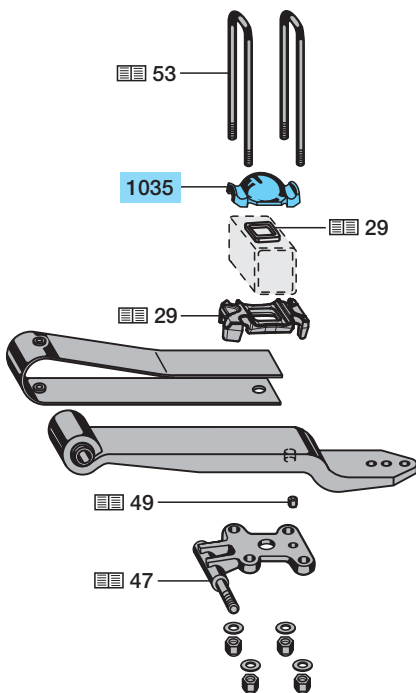
Spring U-bolts mounted from below, spring plate for shock absorber attachment with threaded bolts



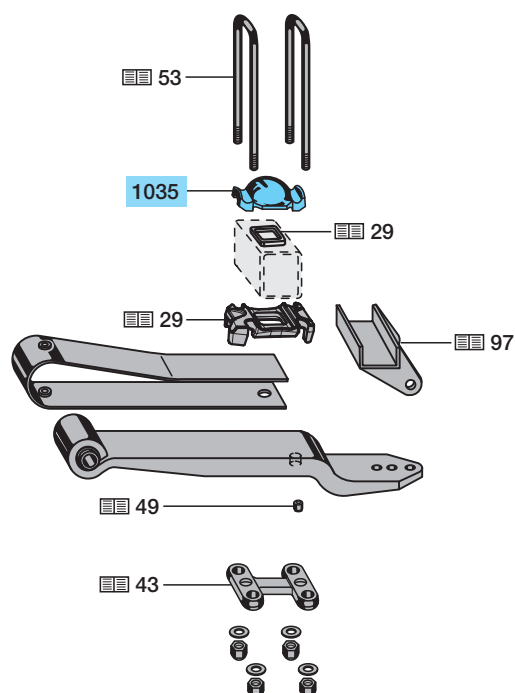
Spring U-bolts mounted from above, trailing arms 70 mm wide (AL II) mounted from below

Spring U-bolts mounted from above, spring U-bolt next to the axle beam

SB 3745 / 4309 / 4345
TSB 3709 / 4309 / 4312
Shock absorber front



SB 3745 / 4309 / 4345
TSB 3709 / 4309 / 4312
Shock absorber rear



AL

Spring plates					
Item	Designation	BPW Code no.	Application	Dimensions	Fig.
Spring U-bolts mounted from below, trailing arms 70 mm wide (AL II) from above mounted					
Spring plate without shock absorber attachment					
1032	Spring plate	03.145.22.77.0 ¹⁾ 03.145.25.16.0	□ 120	A 92 / B 150	
1032	Spring plate	03.145.25.04.0 03.145.25.05.0	□ 120	A 92 / B 150 A 125 / B 150	
1032	Spring plate	03.145.25.01.0 ¹⁾ 03.145.25.17.0	□ 120	A 92 / B 150	
Spring plate for shock absorber attachment with screws					
1032	Spring plate	05.145.22.84.0 ¹⁾ 05.145.25.20.0	□ 120	A 92 / B 150	
Spring plate for shock absorber attachment with threaded bolts					
1032	Spring plate	05.145.22.92.0 ¹⁾ 05.145.25.21.0	□ 120	A 92 / B 150	
Spring U-bolts mounted from above, trailing arms 70 (100) mm wide (AL II) mounted from below					
Spring U-bolt next to the axle beam					
1035	Spring plate	03.032.21.63.0	□ 120	x = 150	
Spring U-bolts mounted from above, trailing arms 70 mm wide (AL II) mounted from below, TSB 3709					
1035	Spring plate	03.032.21.96.0	□ 120	x = 150	

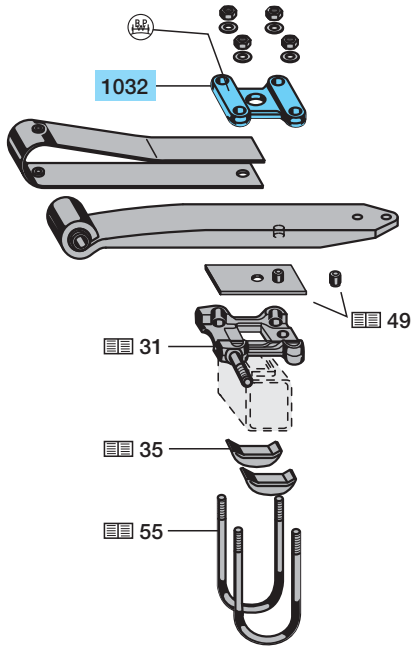
¹⁾ No longer available, replaced by spring plates with spherical countersink (see also page 53).

3 Spring plates, segments

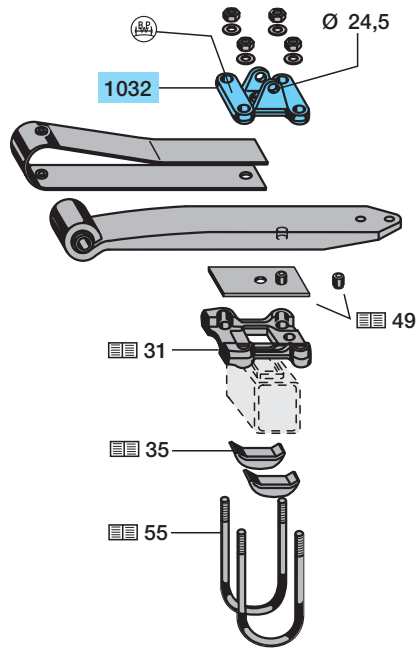
Spring plates

Spring U-bolt encloses the axle beam, trailing arms 100 mm wide

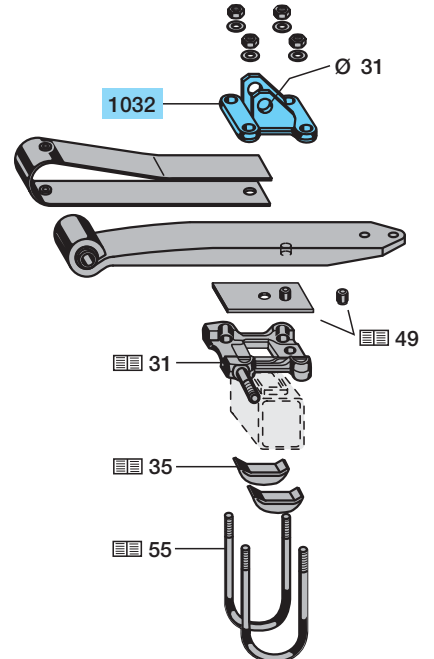
Spring U-bolts mounted from below, spring plate without shock absorber attachment / without U-stabilizer



Spring U-bolts mounted from below, spring plate for shock absorber attachment with screws

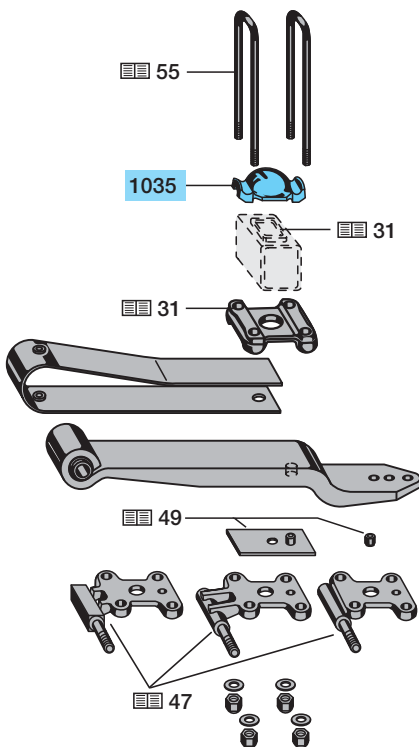


Spring U-bolts mounted from below, spring plate for U-stabilizer attachment with screws

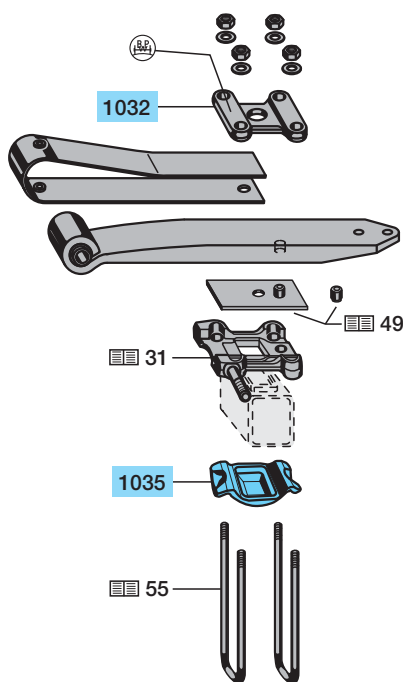


Spring U-bolt next to the axle beam, trailing arms 100 mm wide

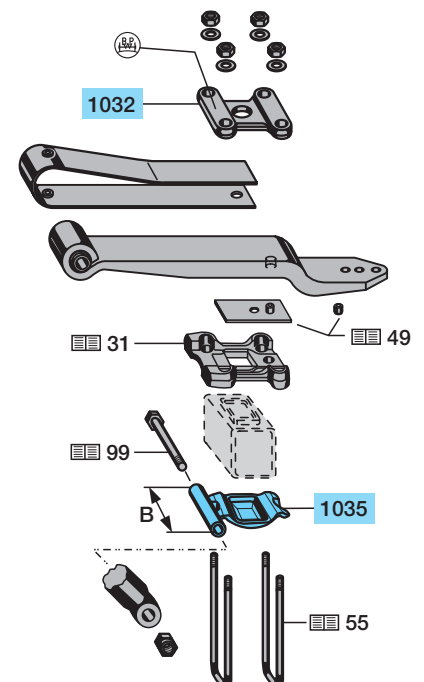
Spring U-bolts mounted from above, spring U-bolt next to the axle beam



Spring U-bolts mounted from below, spring U-bolt next to the axle beam



Spring U-bolts mounted from below, spring U-bolt next to the axle beam, spring plate for shock absorber attachment with screws



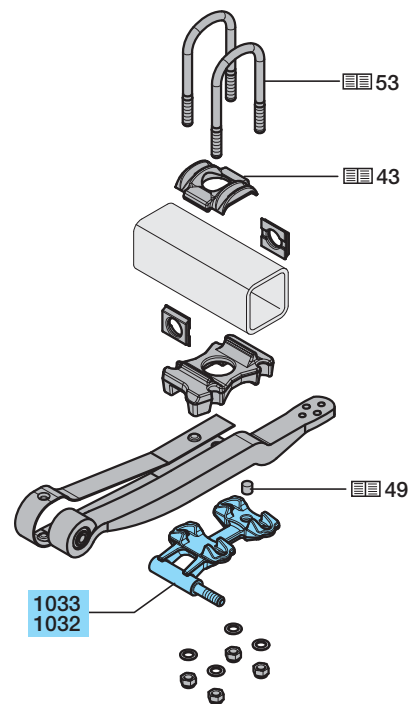
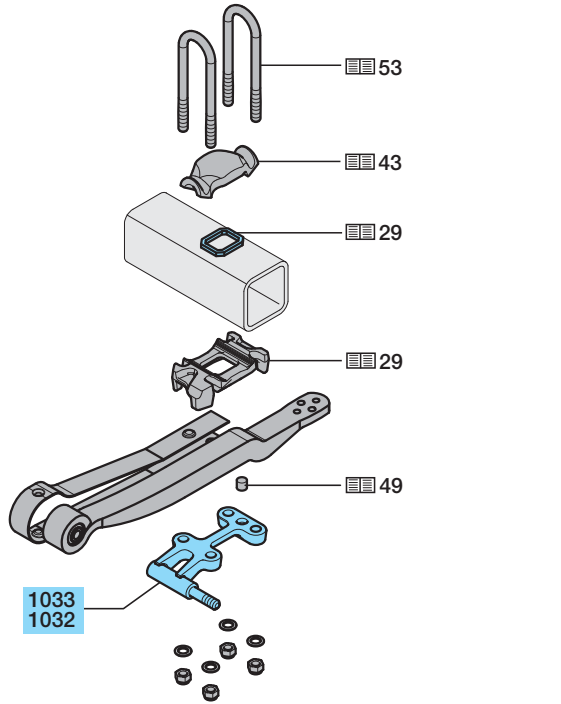
Spring plates					
Item	Designation	BPW Code no.	Application	Dimensions	Fig.
Spring U-bolt encloses the axle beam, trailing arms 100 mm wide					
Spring plate without shock absorber attachment / without U-stabilizer attachment					
1032	Spring plate	03.145.22.01.0	□ 120	A 125 / B 150	
		03.145.22.06.0	∅ 127	A 125 / B 155	
		03.145.23.27.0	□ 150	A 125 / B 180	
Spring plate for shock absorber attachment with screws					
1032	Spring plate G 60	05.145.22.38.0	□ 120	A 125 / B 150	
		05.145.23.26.0	□ 150	A 125 / B 180	
Spring plate for U-stabilizer attachment with screws					
1032	Spring plate	05.145.22.05.0	□ 120	A 125 / B 150	
		05.145.22.20.0	∅ 127	A 125 / B 155	
		05.145.23.08.0 ¹⁾	□ 150	A 125 / B 180	
		¹⁾ with bore hole for centering bolt ∅ 26			
Spring U-bolt next to the axle beam, trailing arms 100 mm wide					
Spring plate without shock absorber attachment					
1035	Spring plate	03.032.21.53.0	□ 120	x = 150	
		03.032.21.56.0 *	□ 120	x = 150	
		03.032.11.27.0	□ 150	x = 180	
		03.032.11.28.0 *	□ 150	x = 180	
		* with bore ∅ 20			
Spring plate for shock absorber attachment with screws					
1035	Spring plate	05.032.21.73.0	□ 120	B = 144 / x = 150	
		05.032.21.72.0	□ 120	B = 187 / x = 150	
1035	Spring plate	05.032.21.78.0	□ 120	x = 150	

3 Spring plates, segments

Spring plates

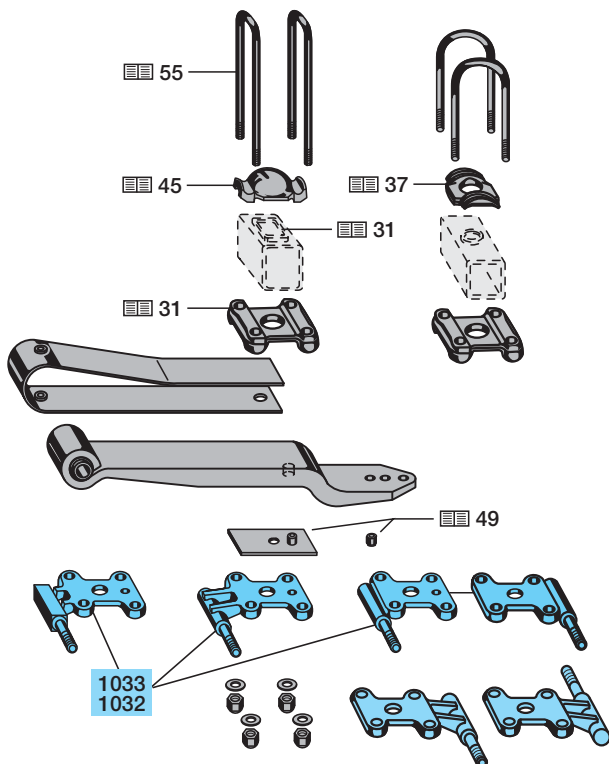
Trailing arms 70 mm wide

Spring U-bolts mounted from above, spring plate for shock absorber attachment with threaded bolts

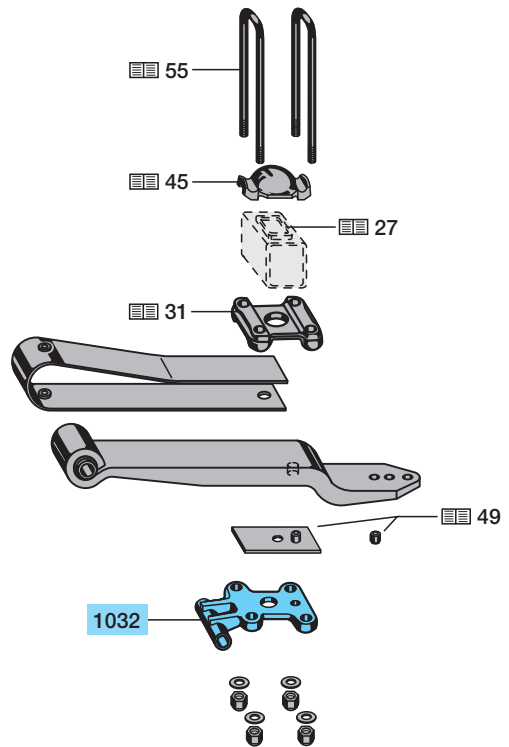


Trailing arms 100 mm wide

Spring U-bolts mounted from above, spring plate for shock absorber attachment with threaded bolts



Spring U-bolts mounted from above, spring plate for shock absorber attachment with screws

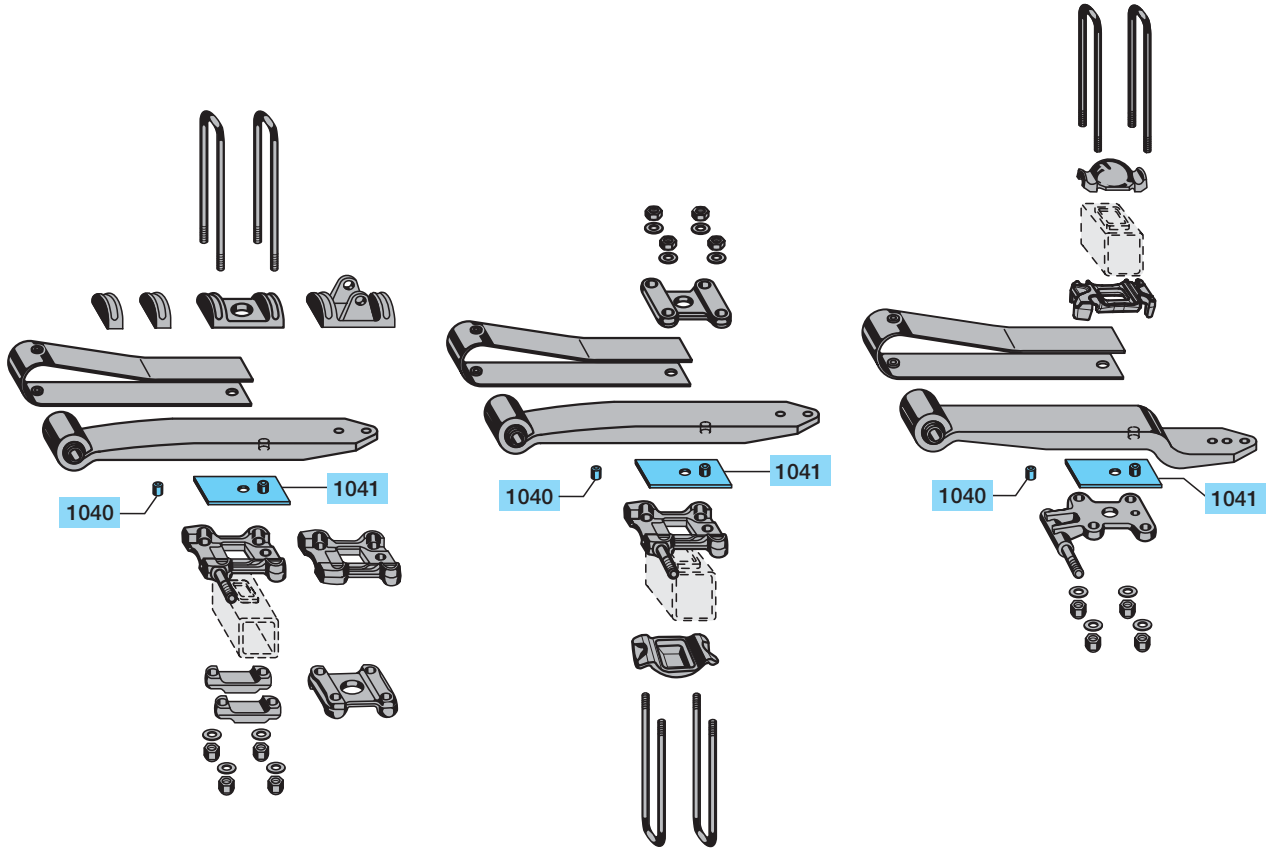


Spring plates											
Item	Designation	BPW Code no.	Application	Dimensions						Fig.	
Spring U-bolts mounted from above											
Spring plate for shock absorber attachment with threaded bolts											
				A	B	C	X	G	V		
Trailing arms 70 mm wide											
1032	Spring plate, right	05.145.25.06.0		125	150	77.5	170	42	-		
1033	Spring plate, left	05.145.25.07.0		92	150	77.5	170	42	-		
		05.145.22.80.0 05.145.22.81.0		92	150	77.5	260	51	-		
		05.145.22.82.0 05.145.22.83.0		92	150	77.5	270	42	-		
Trailing arms 100 mm wide											
		05.145.22.08.0 05.145.22.09.0	□ 120	125	150	93.5	119	21	-		
		05.145.22.50.0 05.145.22.49.0		125	150	93.5	146.5	38	-		
		05.145.22.68.0 * 05.145.22.69.0 *		125	150	72	170	42	-		
		05.145.22.44.0 ¹⁾ 05.145.22.43.0 ¹⁾		125	150	93.5	170	42	-		
		05.145.22.46.0 05.145.22.47.0		125	150	93.5	170	42	20		
		05.145.22.74.0 05.145.22.75.0		125	150	93.5	195	60	15		
		05.145.22.94.0 05.145.22.93.0		125	150	93.5	210	42	15		
		05.145.22.64.0 05.145.22.65.0		125	150	93.5	250	42	15		
		05.145.23.28.0 05.145.23.29.0		□ 150	125	180	93.5	134	21		-
		05.145.23.20.0 05.145.23.19.0			125	180	93.5	134	21		20
		05.145.00.08.0 05.145.00.07.0	125		180	93.5	158.5	30	-		
* Shock absorber attachment bolt Ø 28 (standard Ø 24)				¹⁾ Replaced by 03.145.25.22.0 / 23.0 see below							
Spring plate for shock absorber attachment with screws											
1032	Spring plate	05.145.22.57.0	□ 120	125	150	72	169	42	-		
1032	Spring plate, right	03.145.25.22.0 ²⁾	□ 120	125	150	93.5	170	42	-		
1033	Spring plate, left	03.145.25.23.0 ²⁾									
²⁾ Replace for 05.145.22.43.0 / 44.0				New - Shock absorber attachment with screw, order screw (02.5023.49.80) separately.							

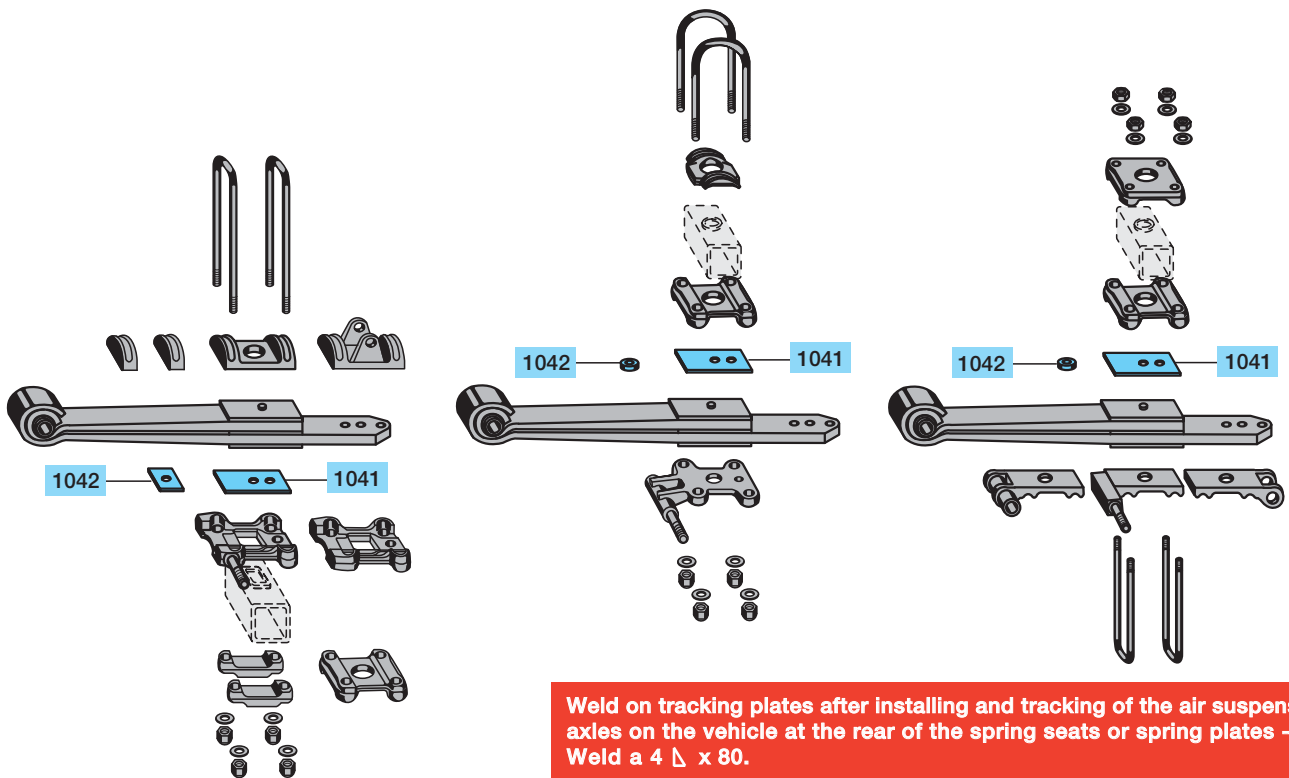
4 Centring bolts, tracking plates

Centring bolts, tracking plates

Single leaf trailing arm without centre bolt



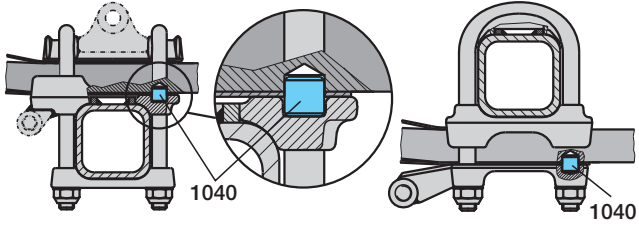
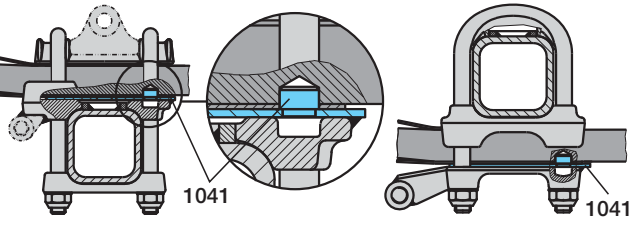
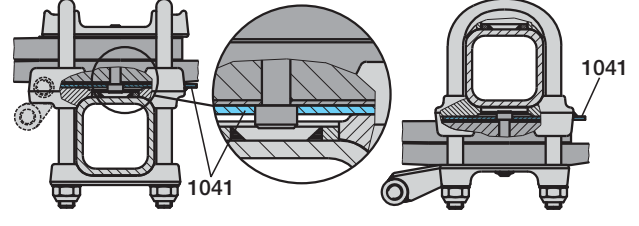
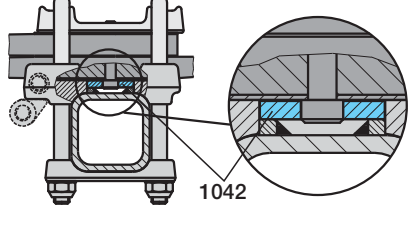
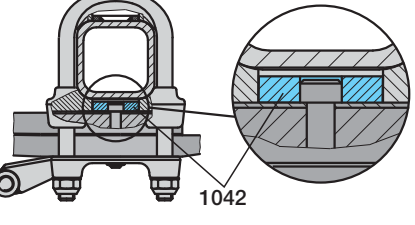
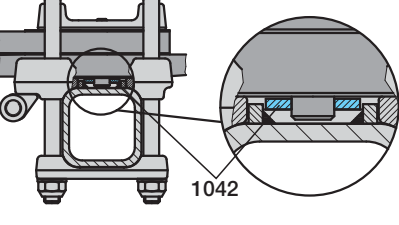
Double or sing leaf trailing arm with centre bolt



Weld on tracking plates after installing and tracking of the air suspension axles on the vehicle at the rear of the spring seats or spring plates - Weld a 4 ∇ x 80.

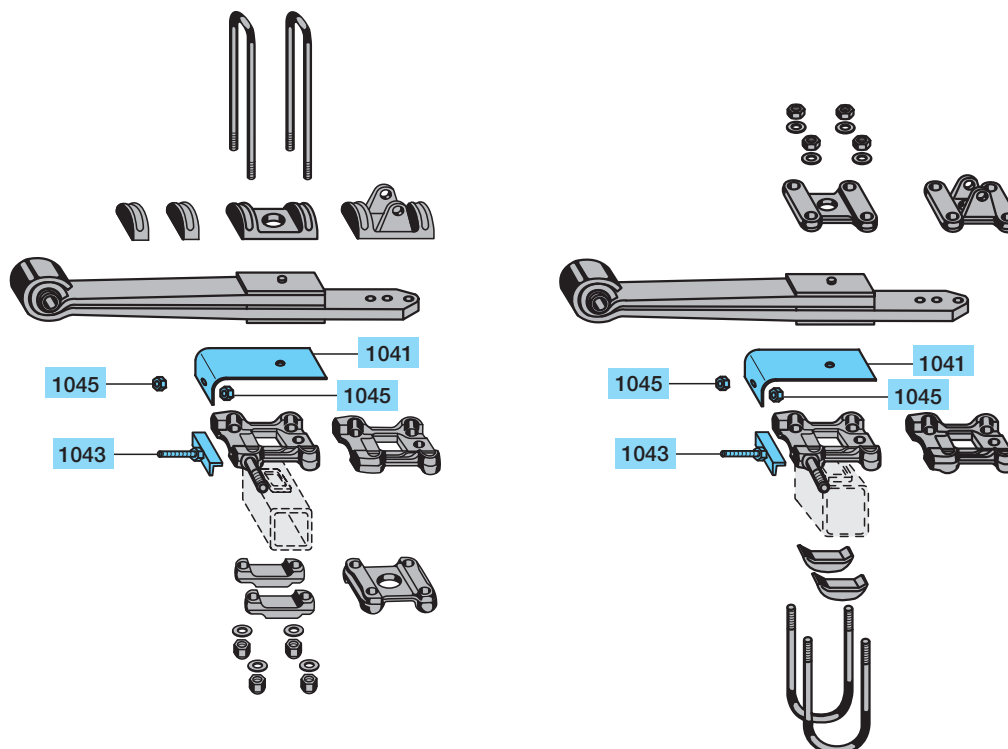
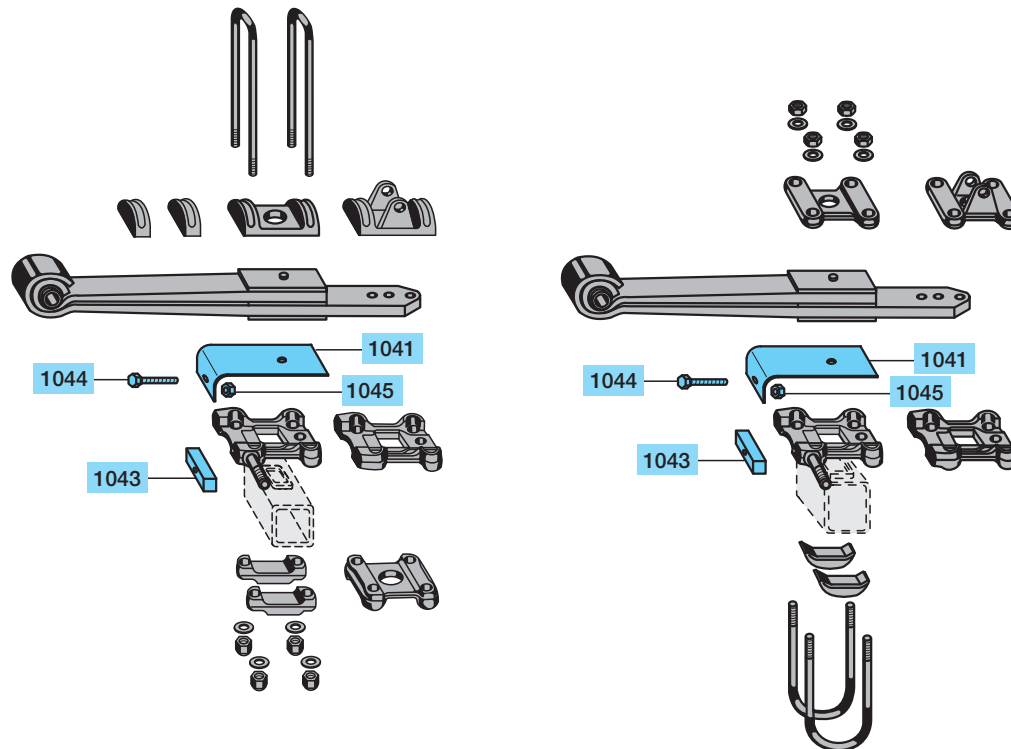
Do not weld the trailing arms !

O
SL
AL

Centring bolts, tracking plates			
Item	Designation	Remark	BPW Code no. Dimensions
Single leaf trailing arm without centre bolt (SLO / SLM / SLU / ALO / ALM / ALU)			
Centring bolt			
1040	Bolt (Centring bolt)		03.084.74.43.0 Ø 24 x 23
			
Tracking plate			
1041	Plate (Tracking plate)	<input type="checkbox"/> 120 <input type="checkbox"/> 120 <input type="checkbox"/> 120 <input type="checkbox"/> 150 <input type="checkbox"/> 150	05.281.36.20.0 218 x 98 x 5 05.281.36.15.0 235 x 98 x 5 05.281.36.18.0 235 x 98 x 5 05.281.37.16.0 260 x 98 x 5 05.281.37.19.0 265 x 98 x 5
			
Double or single leaf trailing arm with centre bolt (O / OM / OT / SLO / SLM / SLU / ALO / ALM / ALU)			
Tracking plate			
1041	Plate (Tracking plate)	<input type="checkbox"/> 120 <input type="checkbox"/> 120 <input type="checkbox"/> 150 <input type="checkbox"/> 150 <input type="checkbox"/> 150	03.281.36.14.0 235 x 98 x 5 03.281.36.16.0 235 x 98 x 5 03.281.37.15.0 260 x 98 x 5 03.281.37.18.0 275 x 98 x 5 03.281.37.08.0 290 x 98 x 5
			
Centring ring, trailing arm mounted from above, trailing arm mounted from below, spring seat with round hole, axle with round centring ring			
1042	Washer (Centring ring)		03.320.33.22.0 Ø 24 / 69 x 4 03.320.34.49.0 Ø 24 / 71 x 4
			
Centring ring, trailing arm mounted from below, spring seat with round hole			
1042	Washer (Centring ring)		03.320.33.25.0 Ø 24 / 69 x 10 03.320.34.50.0 Ø 24 / 71 x 10
			
Centring plate, trailing arm mounted from above, spring seat with square hole, axle with square centring ring			
1042	Plate (Centring plate)		03.281.33.07.0 Ø 24 / 73/60x5 03.281.34.10.0 Ø 24 / 90/55x5 03.001.35.04.0 Ø 24 / 90/72x5
			

4 Centring bolts, tracking plates

Adjustable tracking plates (Tracking aid)



Weld on tracking plates after installing and tracking of the air suspension axles on the vehicle at the rear of the spring seats or spring plates - Weld a 4 Δ x 80.

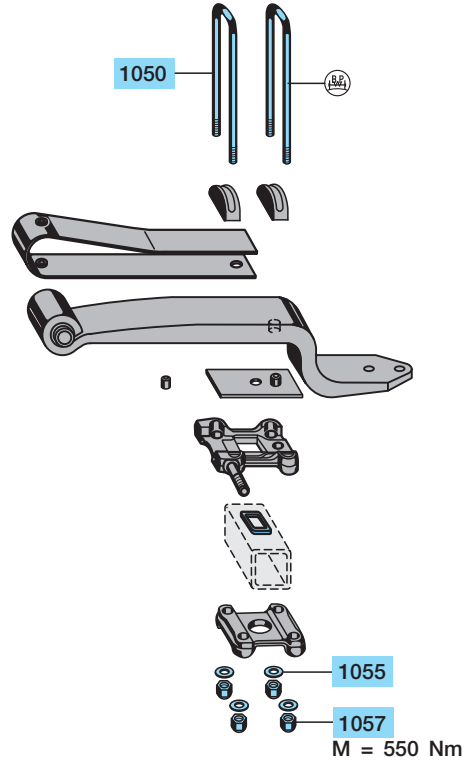
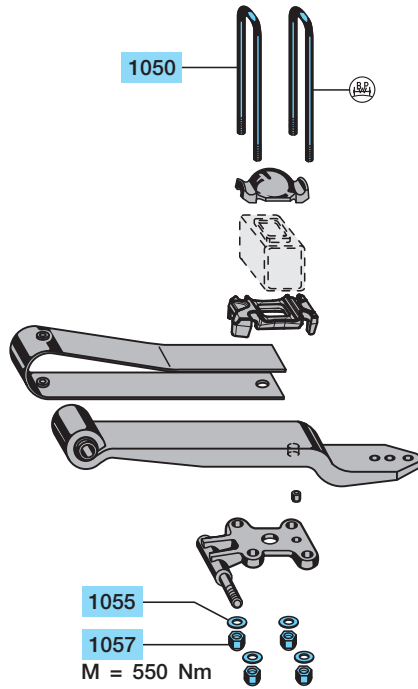
 Do not weld the trailing arms !

Adjustable tracking plates (Tracking aid)			
Item	Designation	Remark	BPW Code no. Dimensions
Double or sing leaf trailing arm with centre bolt (O / OM / OT / SLO / SLM / SLU)			
Adjustable tracking plates			
1041	Shaped plate □ 120 (Tracking plate) □ 150		03.161.57.05.0 03.161.57.04.0
1043	Bloc		03.221.77.15.0
1044	Locking screw		02.5070.96.00 M 16 x 75
1045	Hexagon nut		02.5202.20.80 M 16 / 934
Adjustable tracking plates			
1041	Shaped plate □ 120 / Ø 127 (Tracking plate)		03.161.57.04.0
1043	Support		05.189.10.20.0
1045	Hexagon nut		02.5202.20.80 M 16 / 934

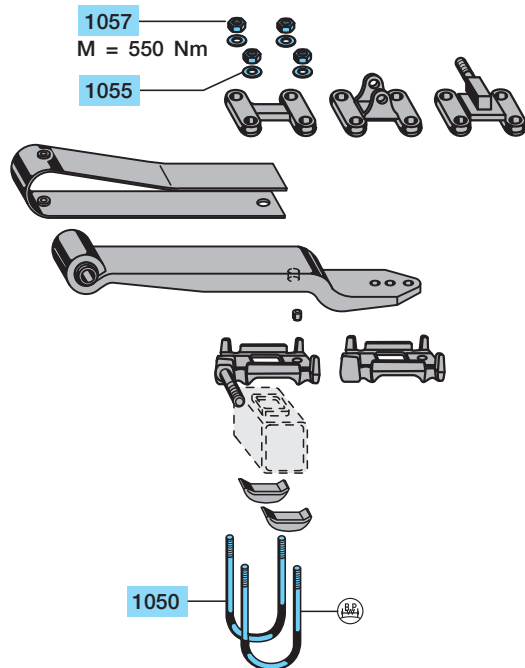
5 Spring U-bolts

Spring U-bolt M 22, trailing arms 70 mm wide

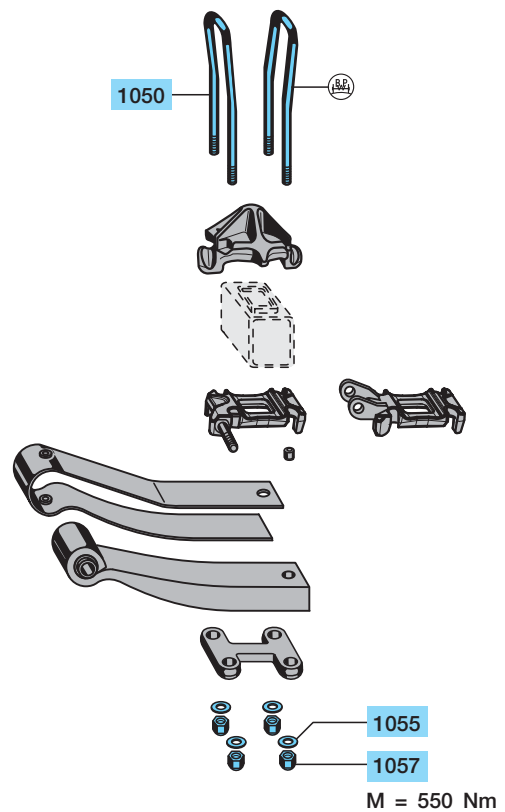
Spring U-bolt next to the axle beam



Spring U-bolt encloses the axle beam



Spring U-bolt next to the axle beam
AirlightDirect



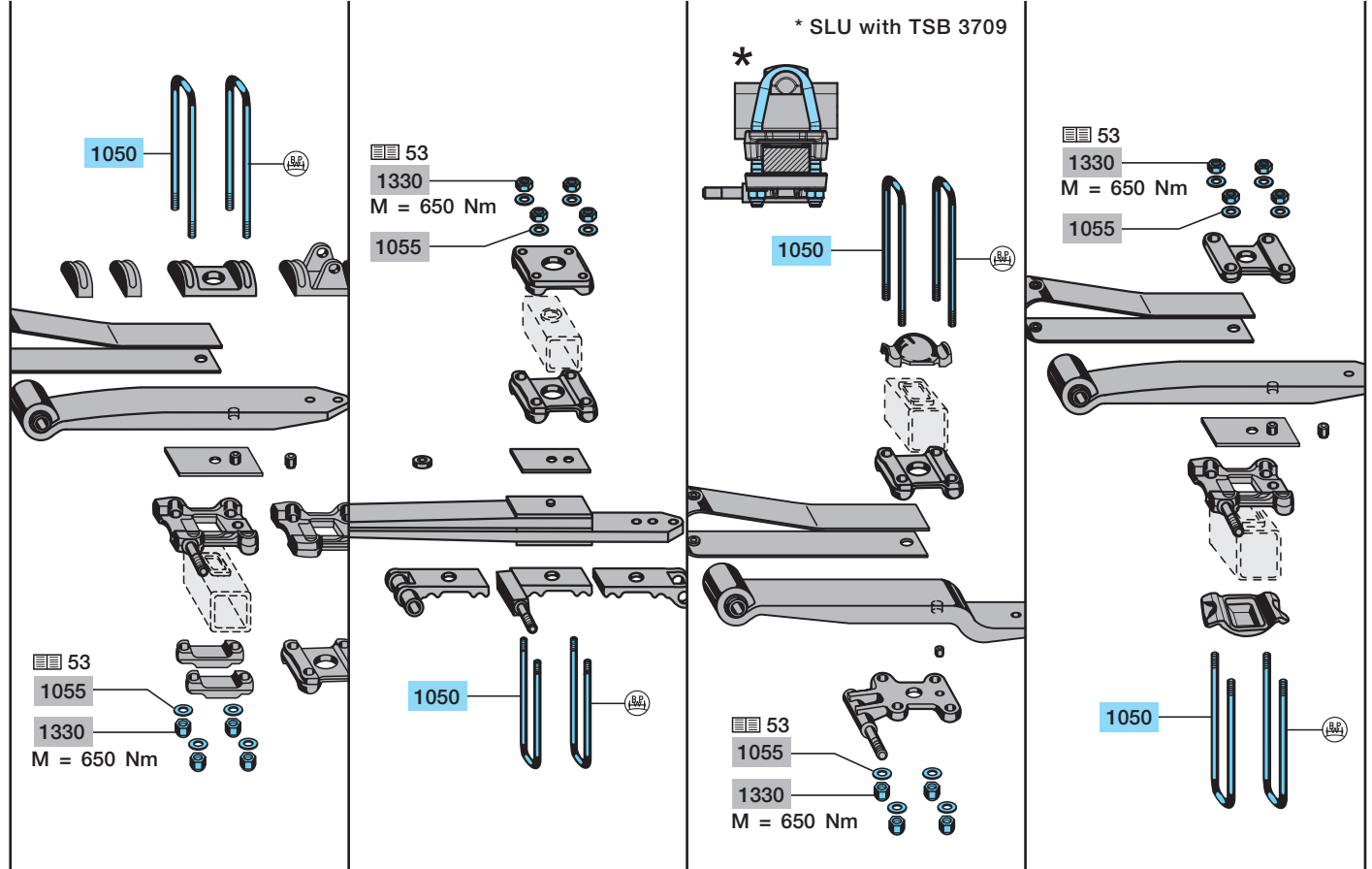
AL

Spring U-bolt M 22, trailing arms 70 mm wide			
Spring U-bolt for series AL II, trailing arms 70 mm wide			
	Spring U-bolt next to axle beam		Spring U-bolt encloses the axle beam
	□ 120 A = 92	□ 120 A = 92	□ 120 A = 150
	Item 1050 BPW Code no.		
1050 Spring U-bolt	03.138.30.07.4 L 280	03.138.30.19.4 L 282	03.138.37.05.4 L 256 flattened
	03.138.30.08.4 L 295		03.138.37.04.4 L 260 flattened
			03.138.37.06.4 L 264 flattened
			03.138.37.03.4 L 280 flattened
			03.138.37.11.4 L 283 round
			03.138.37.10.4 L 289 round
			03.138.37.02.4 L 290 flattened
			<p>Spring plate without spherical countersink (with disc)</p>
			<p>Spring plate with spherical countersink (with spherical disc)</p>
	□ 120 A = 92	□ 120 A = 150	
	Item 1050 BPW Code no.		
1050 Spring U-bolt	03.138.30.18.4 L 252	03.138.37.09.4 L 240 / 262	flattened
		03.138.37.17.4 L 240 / 262	round
1055 Washer	02.5401.23.07	Ø 23 / 125	
Disc (spherical disc)	03.310.10.28.0 *	Ø 23 / 34 x 7.5	
1057 Lock nut	03.260.04.19.0	M 22 / SW 32 / H 22	
			* Spherical disc for spring plates with spherical countersink

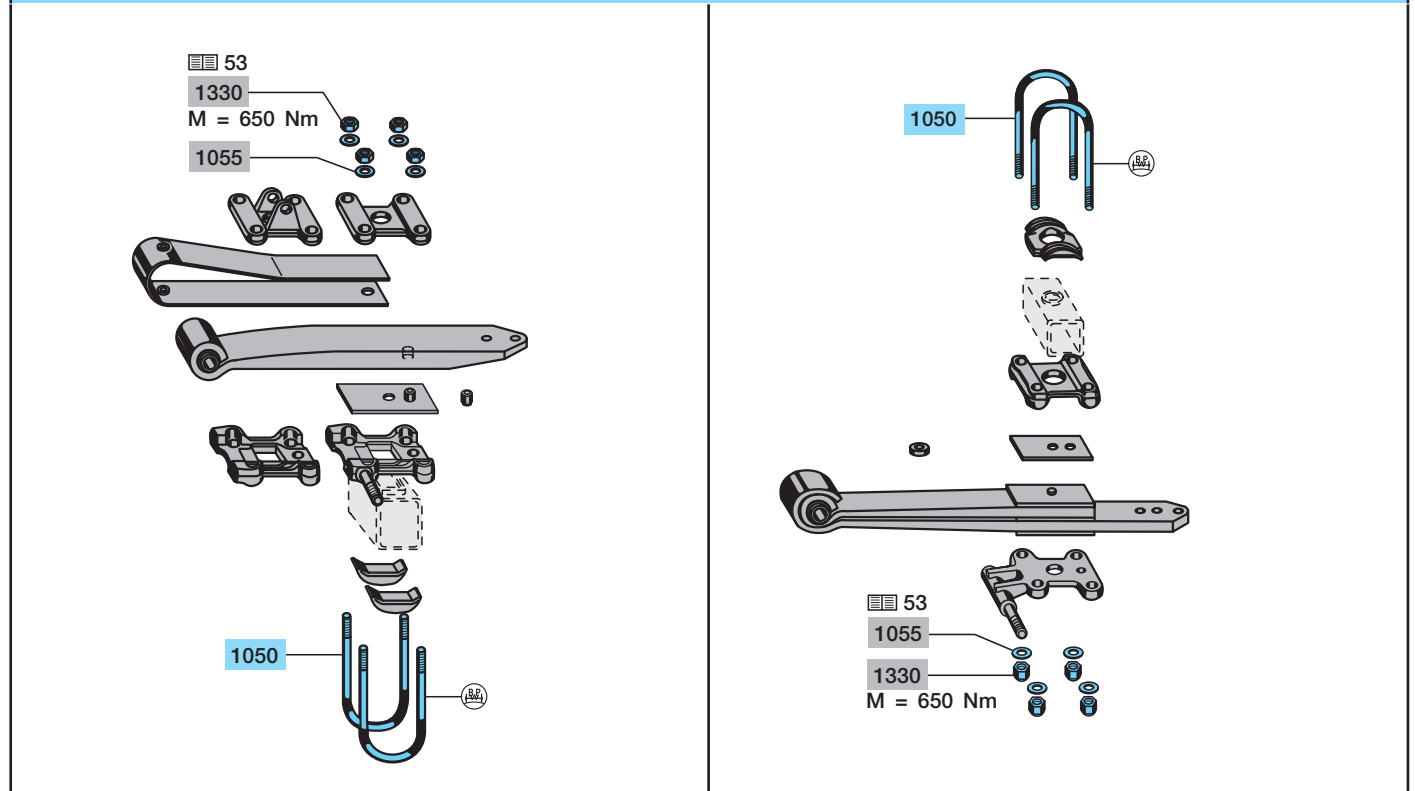
5 Spring U-bolts

Spring U-bolt M 24, trailing arms 100 mm wide

Spring U-bolt next to the axle beam



Spring U-bolt encloses the axle beam

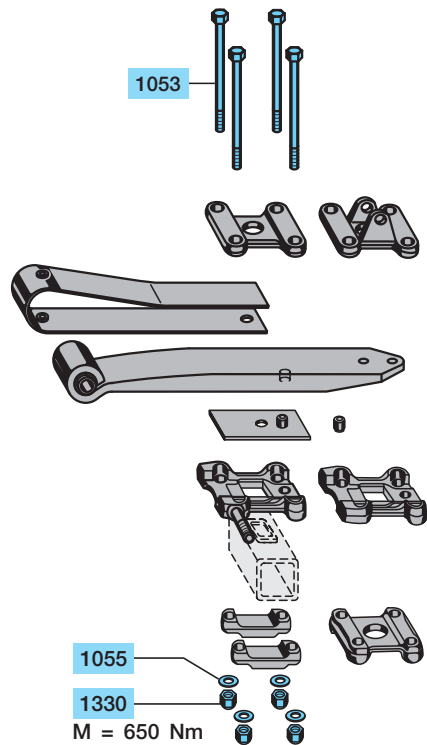


Spring U-bolt M 24, trailing arms 100 mm wide					
Spring U-bolts for series O / SL / AL, trailing arms 100 mm wide					
	Spring U-bolt next to axle beam	Spring U-bolt encloses the axle beam			
L	□ 120 / □ 150 A = 125 (L)	□ 120 A = 152 (L)	□ 120 Disc brakes A = 152 (L)	□ 150 A = 180 (L)	∅ 127 A = 152 (L)
	Item 1050 BPW Code no.				
190	-	03.138.41.31.4 (190)	-	-	-
210	-	03.138.41.32.4 (210)	-	-	-
230	03.138.44.21.4 (230)	-	-	-	-
250	-	-	-	03.138.45.20.4 (250)	-
270 - 277	03.138.44.19.4 (270)	-	03.138.41.38.4 (277)	-	03.138.41.21.4 (275)
280 - 285	03.138.44.08.4 (280) 03.138.44.40.4 * (280)	03.138.41.19.4 (280)	03.138.41.33.4 (285)	-	03.138.41.18.4 (280)
290 - 295	03.138.44.16.4 (292) 03.138.44.44.4 * (292)	03.138.41.17.4 (290)	-	-	03.138.41.14.4 (290)
300 - 305	03.138.44.04.4 (301)	03.138.41.13.4 (300)	03.138.41.34.4 (300)	-	-
308 - 310	03.138.44.09.4 (308) 03.138.44.41.4 * (308)	03.138.41.16.4 (310)	-	-	03.138.41.11.4 (310)
315 - 320	03.138.44.15.4 (320) 03.138.44.42.4 * (320)	03.138.41.08.4 (320)	03.138.41.37.4 (315)	03.138.45.11.4 (320)	-
325 - 335	03.138.44.02.4 (331) 03.138.44.43.4 * (331)	03.138.41.26.4 (330)	03.138.41.35.4 (325)	03.138.45.09.4 (330)	03.138.41.10.4 (335)
340 - 345	03.138.44.18.4 (340)	03.138.41.05.4 (345)	03.138.41.36.4 (345)	03.138.45.19.4 (340)	-
350 - 356	03.138.44.01.4 (356)	03.138.41.23.4 (355)	-	03.138.45.08.4 (350)	03.138.41.09.4 (355)
360 - 365	-	03.138.41.06.4 (365)	-	03.138.45.07.4 (360)	-
370	03.138.44.12.4 (370)	-	-	03.138.45.22.4 (370)	-
380	-	-	-	03.138.45.06.4 (380)	-
400	03.138.44.25.4 (400)	-	-	-	-
415	-	03.138.41.29.4 (415)	-	-	-

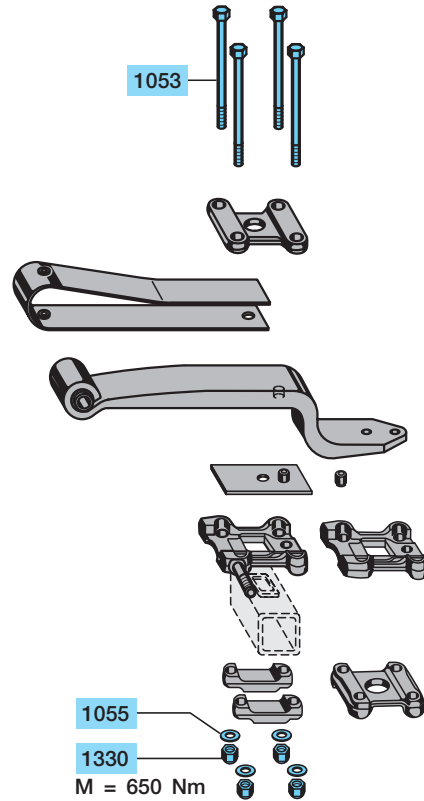
5 Spring U-bolts / Hexagon screws

Hexagon screws M 24

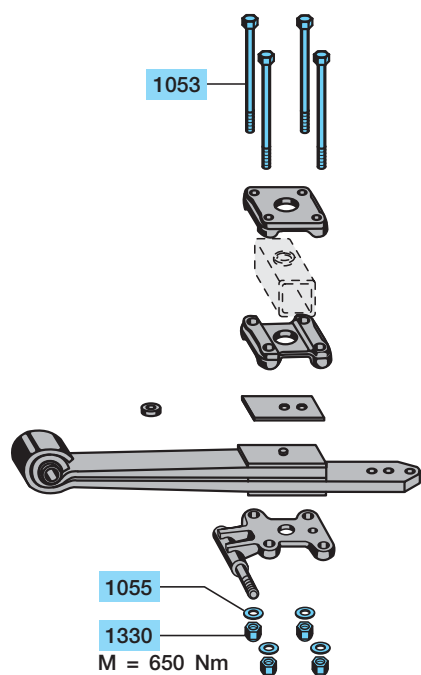
SLO / ALO



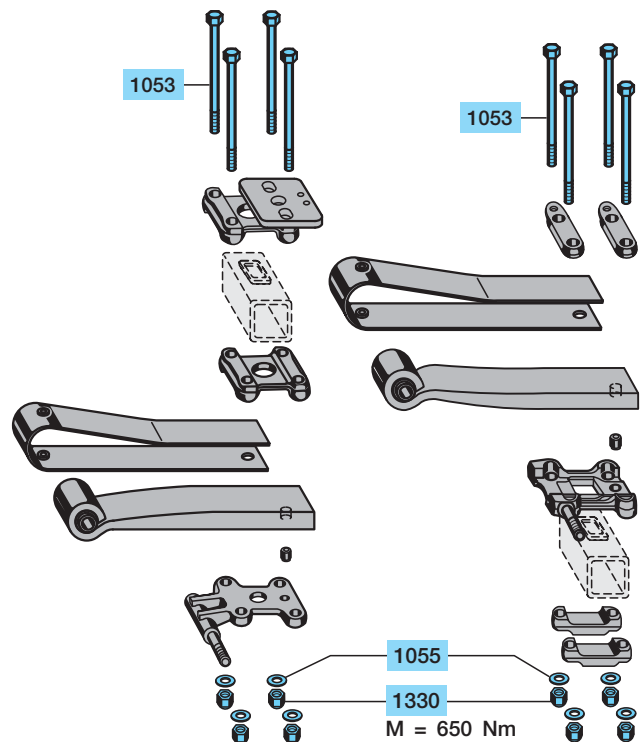
SLM / ALM



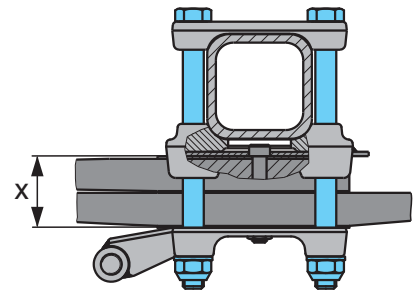
SLU / ALU



Direkte Luftfederung (DO / DOT)



Hexagon screws M 24					
Item	Designation	Remark	BPW Code no.	Dimensions	Application X
			□ 120		
1053	Hexagon screw		02.5023.45.11	M 27 x 270	38 - 45
			02.5023.89.10	M 24 x 280	43 - 54
			02.5023.95.10	M 24 x 300	65 - 79
			02.5023.88.10	M 24 x 320	80 - 99
			02.5023.94.10	M 24 x 350	100 - 134
			□ 150		
1053	Hexagon screw		02.5023.88.10	M 24 x 320	50 - 69
			02.5023.99.11	M 24 x 340	60 - 95
			02.5023.94.10	M 24 x 350	70 - 104
			02.5023.98.10	M 24 x 380	100 - 135



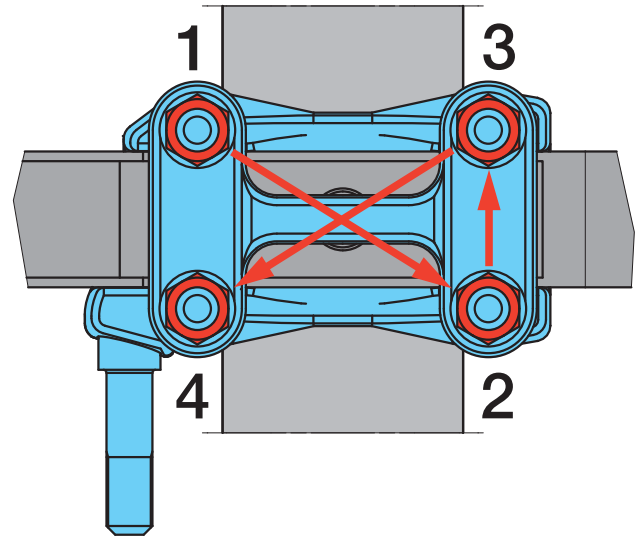
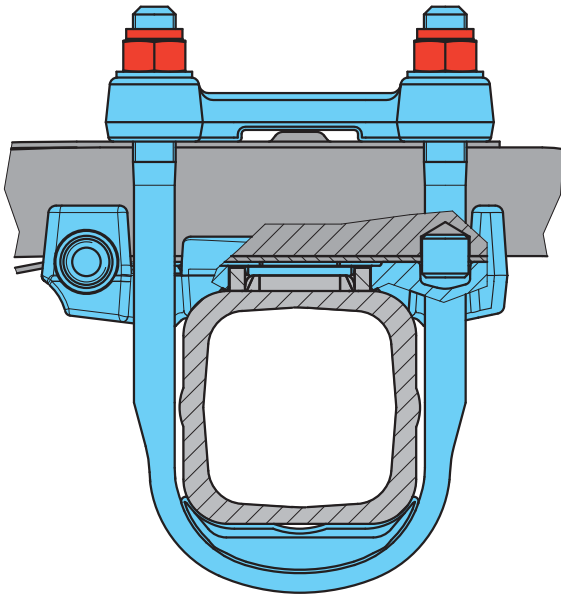
1055	Washer		02.5401.25.07	Ø 25 / 127	
1330	Lock nut		02.5220.74.12	M 24 / 980-10	

Spare parts for ECO Air COMPACT air suspensions see pages 172 - 176.

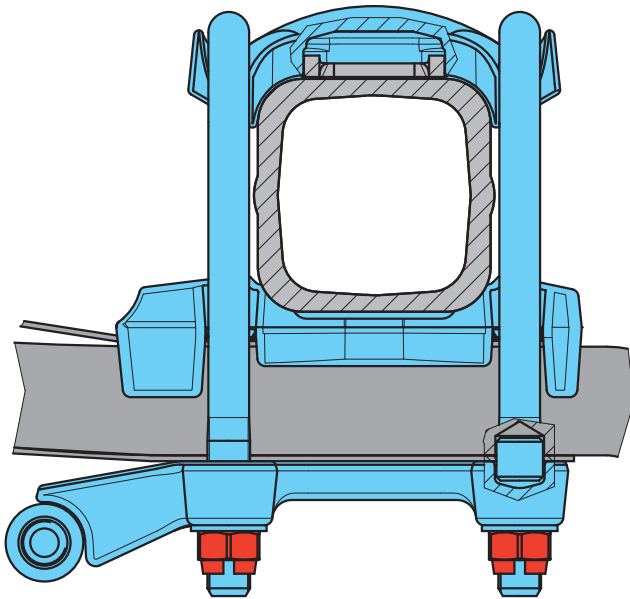
5.1 Assembly instructions for clamped axle spring seat assemblies

Trailing arms 70 mm wide (AL II), spring U-bolt M 22

Series ALO / ALM



Series ALU



Assembly instructions:

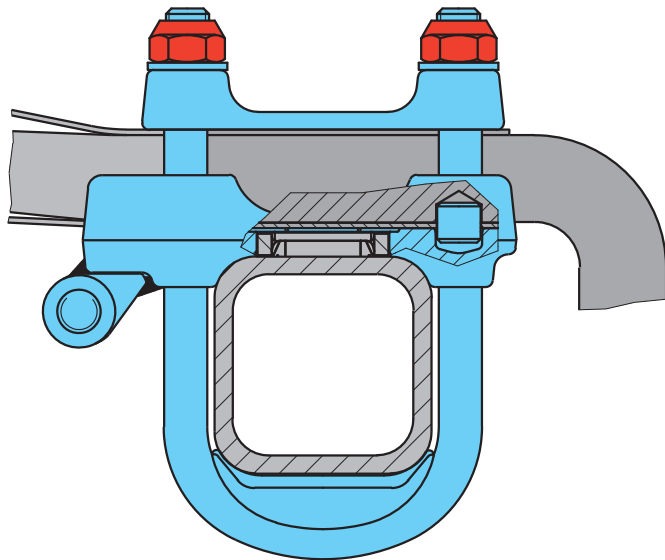
- Parts are to be assembled in line with opposite illustration, further grease spring U-bolts thread.
 - Spring seats and trailing arm are to be aligned parallel to the axle beam and self-locking nuts are to be equally cross-wise tightened until contact to spring plate.
 - Control parallel position of spring seats and trailing arm towards axle beam and hereafter tighten self-locking nuts cross-wise in a.m. sequence 1-2-3-4 until all have achieved a tightening torque of 200 Nm. Using a torque wrench tighten self-locking nuts cross-wise in following steps to the tightening torque of 550 Nm.
- 1) 200 Nm s.a.
 - 2) 300 Nm
 - 3) 450 Nm
 - 4) 550 Nm
- Hereafter tighten the nuts by another 90° turning angle.

$$M = 550 \text{ Nm} + 90^\circ$$

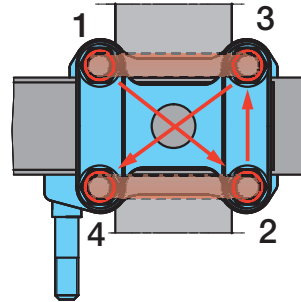
AL

Trailing arms 100 mm wide (SL / AL), spring U-bolt M 24

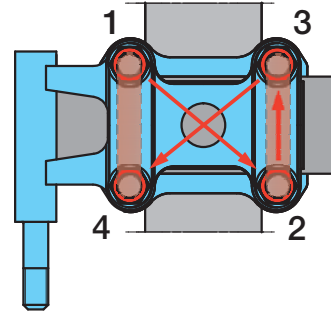
Series SLO / SLM / ALO / ALM



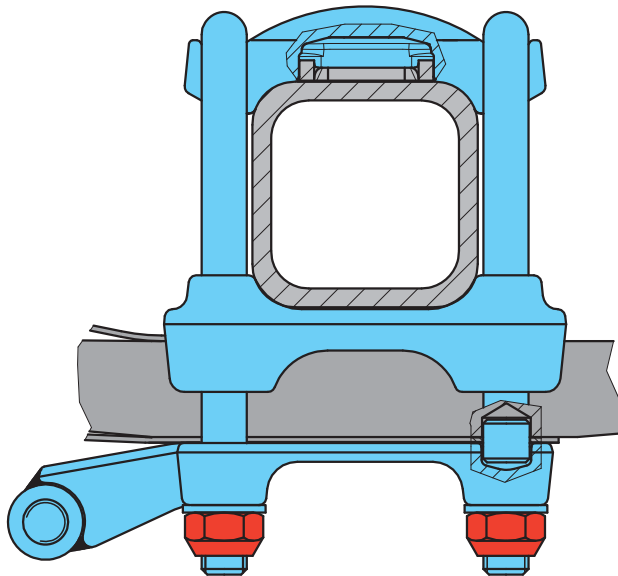
Spring U-bolt encloses the axle beam



U-bolt next to the axle beam



Series SLU / ALU



Assembly instructions:

- Parts are to be assembled in line with opposite illustration, further grease spring U-bolts thread.
- Spring seats and trailing arm are to be aligned parallel to the axle beam and self-locking nuts are to be equally cross-wise tightened until all components are in uniform contact.
(The spring seats are only in contact with the radi of the axle beam.)
No uneven tightening is allowed due to single-sided tightening of the lock nuts.
- Using a torque wrench, tighten the lock nuts in several stages cross-wise until the specified tightening torque has been reached.

M = 650 Nm (605-715 Nm)

6 Spring pivot bolt bearings

General

Spring pivot bolt bearing

BPW spring bolt mountings connect the trailing arms to the supports / frame.

The maintenance-free steel / rubber / steel bushes guarantee that the axles are guided securely and with a stable track in any circumstances.

In axle lift devices, the mounting of the lift arm is integrated into the spring bolt mounting, thereby ensuring a safe and long-life function.

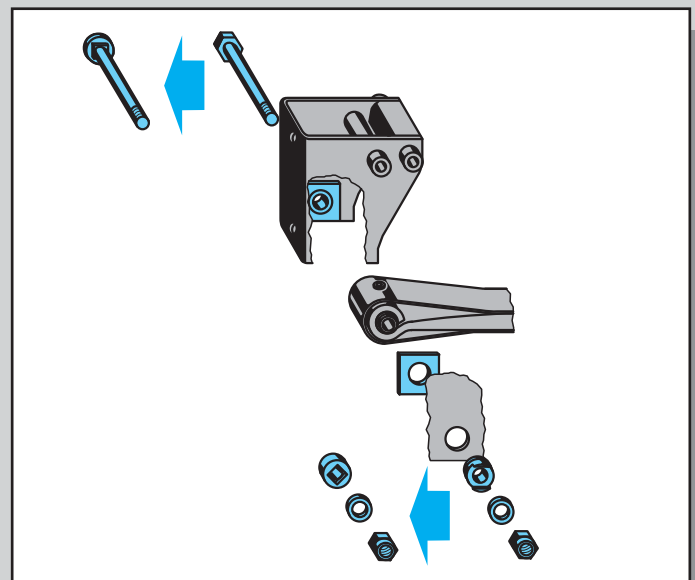
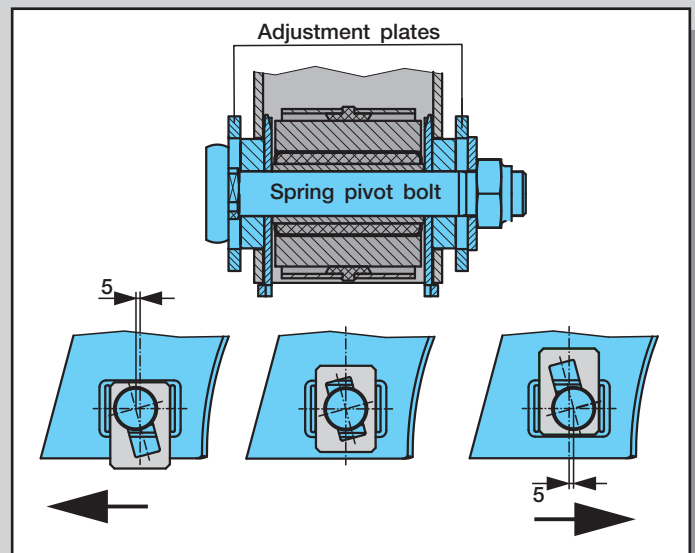
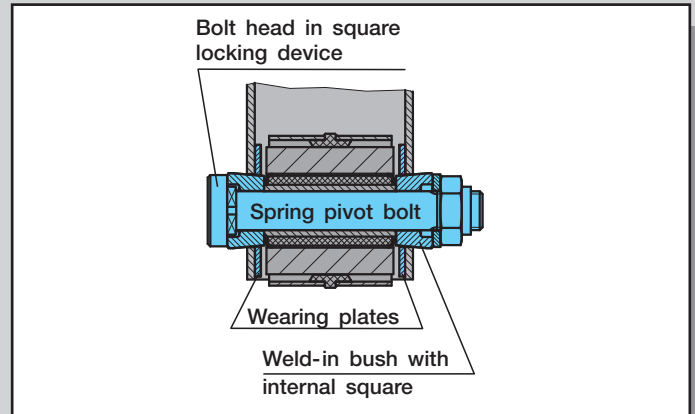
Rapid axle alignment is possible using BPW hanger brackets with integrated track adjustment. Production tolerances on the vehicle can be counteracted or tracking corrected without the need to unfasten the spring U-bolts (axle tracking).

Spring bolt with square anti-rotation lock

Since 1995, BPW has been using spring bolts and weld-in bushes with square anti-rotation lock on rigid steel supports.

In case of wear on bushes with a slot for the hexagon head of the spring bolt that are welded into older supports, change over to the new technology with square anti-rotation lock.

Spare parts for ECO Air COMPACT air suspensions see pages 172 - 176.



New spring pivot bolt bearing from week 18/2004 onwards

From week 18/2004 onwards, the functional principle of the loose wear plates (registered utility model DE-GM 201 04 753 U1) familiar in Airlight II hanger brackets will also be carried across to the rigid air suspension hanger brackets for 100 mm wide trailing arms.

Loose wear plates offer the following advantages:

- Simplified mounting, because the wear plates are not inserted in the bracket until the trailing arm has been positioned in the bracket. This means there is significantly more installation space available at the start of the installation procedure. Preinstalled air suspension modules can therefore be installed in the vehicle frame much more easily thanks to the brackets which are already welded on.
- A practical design of the wear plates thanks to the insertion offset and height limitation ensures that the installation functions smoothly.
- Mixed installation is technically possible (brackets with loose wear plates or with welded wear plates).

Wearing plates

BPW uses two different versions of wearing plates.

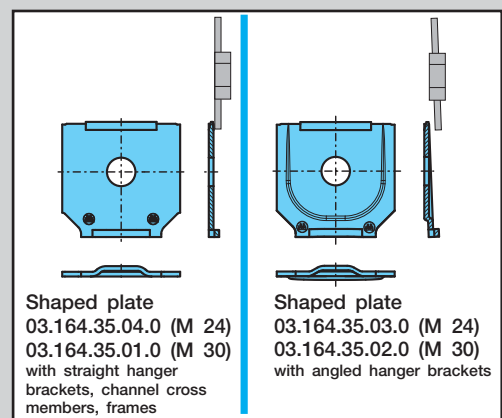
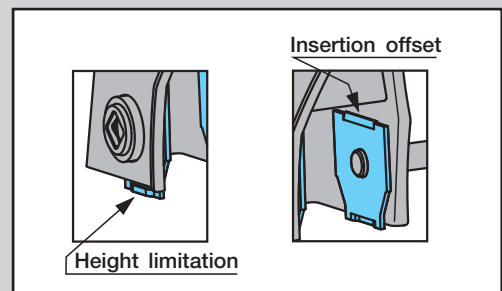
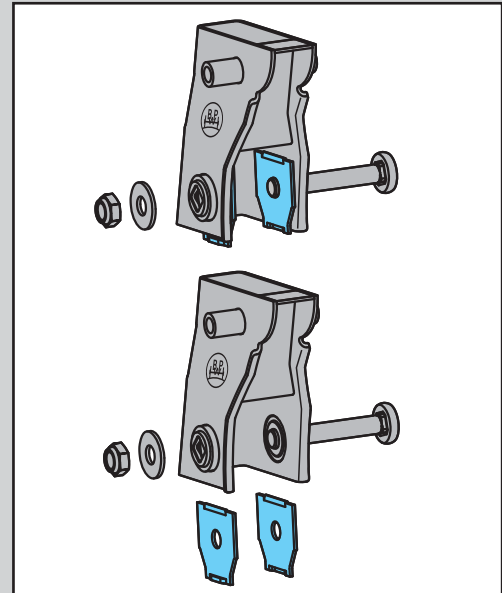
1. A straight shaped plate for straight hanger brackets, channel crossmembers and frames
BPW code no.: 03.164.35.04.0 - M 24
03.164.35.01.0 - M 30
2. An offset shaped plate for angled hanger brackets,
BPW code no.: 03.164.35.03.0 - M 24
03.164.35.02.0 - M 30

Spring pivot bolt Ø 24

Since week 30/2007 air suspension modules (Airlight II) will only be obtainable with Ø 24 mm trailing arm bushes and spring pivot bolts.

Introducing an M 24 spring pivot bolt provides greater security due to higher bolt tension being achieved. In addition the surface area of the clamped interfaces is increased. This means the bolted connection has been made even less susceptible to settling.

The tightening torque (with torque wrench!) for Airlight II channel crossmembers and air suspension hanger brackets is reduced from 900 Nm (840 - 990 Nm) for the M 30 spring bolt to 650 Nm (605 - 715 Nm) for the M 24 spring bolt.



6.1 Spare parts for spring pivot bolt bearings

Spare parts for spring pivot bolt bearings

<p>A</p>	<p>B</p>	<p>C</p>
<p>D</p>	<p>E</p>	<p>F</p>
<p>G</p>	<p>H</p>	<p>I</p>
<p>J</p>	<p>K</p>	<p>L</p>
<p>M</p>	<p>N</p>	<p>O</p>

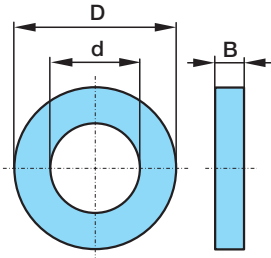
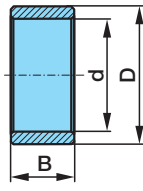
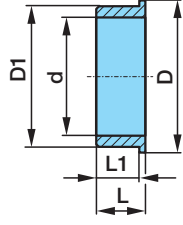
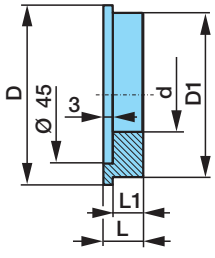
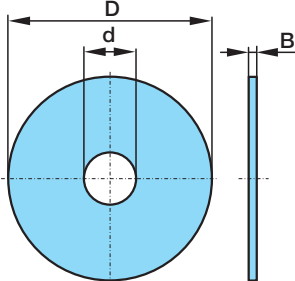
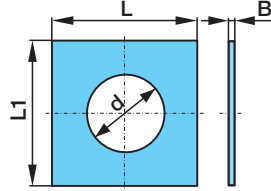
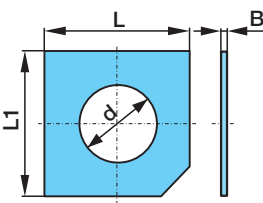
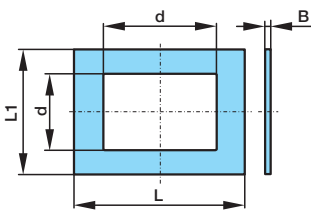
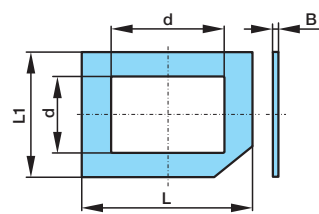
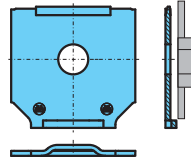
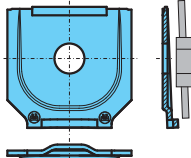
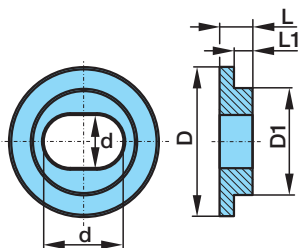
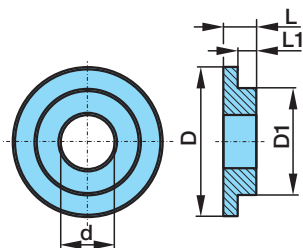
Spare parts for spring pivot bolt bearings 6.1

Spare parts for spring pivot bolt bearings										
Item	Designation	Dimensions	BPW Code no.	Fig.	L	L1	I	D	d	B
1154 1155	Screw (Spring pivot bolt)	M 24 x 2 x 144	03.340.14.30.0	C	144		50	Ø 51.5	Ø 18	
		M 24 x 2 x 144	03.340.14.31.0	D	144	Ø 48				
		M 24 x 2 x 166	03.340.14.20.0	A	166	40	Ø 56	Ø 18	□ 24	
		M 24 x 2 x 166	03.340.14.24.0	B	166		Ø 56			
		M 24 x 2 x 166	03.340.14.28.0	E	166		Ø 54			
		M 24 x 2 x 180	03.340.14.23.0	A	180		Ø 56	□ 24		
		M 24 x 2 x 200	03.340.14.27.0		200					
		M 24 x 2 x 210	03.340.14.29.0		210		45			
		M 24 x 2 x 235	03.340.14.26.0	F	235	65	SW 36			
		M 24 x 2 x 260	03.340.14.25.0		260	60				
1154 1155	Screw (Spring pivot bolt)	M 30 x 2 x 190	03.340.15.27.0	G	190	50	45	SW 46		
		M 30 x 2 x 210	03.340.15.23.0		210					
		M 30 x 2 x 235	02.5023.70.88		235					
		M 30 x 2 x 255	03.340.15.39.0		255					
		M 30 x 2 x 265	03.340.15.37.0		265					
		M 30 x 2 x 265	03.340.15.40.0	H	265	251				
		M 30 x 2 x 290	03.340.15.33.0		290	281	45			
		M 30 x 2 x 170	03.341.05.05.0	I	170	40		Ø 62		□ 30
		M 30 x 2 x 180	03.341.05.02.0		180					
		M 30 x 2 x 200	03.341.05.03.0		200					
M 30 x 2 x 200	03.341.05.04.0	200								
1160	Slider	Ø 30 / 50 x 58 x 20	03.181.20.08.0	J	58	50			Ø 30	20
1161	Plate (Adjusting plate)	Ø 24	03.281.44.25.0	K	98	51	66		25	6
		Ø 24	03.281.54.21.0							10
		Ø 24	03.281.54.20.0		86	65	72	31	8	
		Ø 30	03.281.54.19.0							
		Ø 30	03.281.54.18.0		104	57	72			
		Ø 30	03.281.54.14.0							
1162	Plate	Ø 31 / □ 72 x 10	03.281.63.11.0	L	72	72			Ø 31	10
1165	Washer	Ø 25 / 36 x 6	03.320.30.41.0	M				Ø 36	Ø 25	6
		Ø 26 / 60 x 6	03.320.33.28.0					Ø 60		8
		Ø 25 / 60 x 8	03.320.33.29.0					Ø 62		10
		Ø 25 / 62 x 10	03.320.32.42.0					Ø 70		12
		Ø 25 / 70 x 12	03.005.31.38.0							
1165	Washer	Ø 31 / 45.5 x 5	03.320.31.24.0	M				Ø 45.5	Ø 31	5
		Ø 31 / 45.5 x 6	03.320.31.27.0					6		
		A 31	02.5401.31.01					Ø 56		4
		Ø 31 / 57 x 6	03.320.32.38.0					Ø 57		5
		Ø 31 / 62 x 5	03.320.34.51.0					Ø 62		
		Ø 31 / 71 x 6	03.320.34.53.0					Ø 71		6
		Ø 31 / 71 x 6	03.320.34.54.0 *							
1168	Lock nut	M 24 x 2 / SW 36	03.260.14.13.0	N				SW 36	M 24 x 2	24
		M 30 x 2 / SW 46	03.260.15.01.0					SW 46	M 30 x 2	
1169	Castle nut	M 30 x 2 / 935-8	02.5204.35.60	O				SW 46	M 30 x 2	33
1170	Split pin	6.3 x 50 / 94	02.6201.62.01	-						

* hardened

Spare parts for ECO Air Compact air suspensions see pages 172 - 176.

6.1 Spare parts for spring pivot bolt bearings

Spare parts for spring pivot bolt bearings		
<p>A</p> 	<p>B</p> 	<p>C</p> 
<p>D</p> 	<p>E</p> 	<p>F</p> 
<p>G</p> 	<p>H</p> 	<p>I</p> 
<p>J</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>03.164.35.04.0 (M 24) 03.164.35.01.0 (M 30) with straight hanger brackets, channel cross members, frames</p> </div> <div style="text-align: center;">  <p>03.164.35.03.0 (M 24) 03.164.35.02.0 (M 30) with angled hanger brackets</p> </div> </div>		
<p>K</p> 	<p>L</p> 	

Spare parts for spring pivot bolt bearings 6.1

Spare parts for spring pivot bolt bearings

Item	Designation	Dimensions	BPW Code no.	Fig.	L	L 1	D	D1	d	B	
1173	Washer	Ø 31 / 56 x 10	03.320.32.41.0	A			Ø 56		Ø 31	10	
1175	Bush (Polyamid)	Ø 41 / 50 x 23	03.113.94.10.0	B			Ø 50		Ø 41	23	
		Ø 42 / 50 / 54 x 17.5	03.113.04.11.0	C	17	15	Ø 54	Ø 50	Ø 42		
		Ø 54 / 62 / 58 x 9	03.113.06.16.0		9	7	Ø 62	Ø 58	Ø 54		
	Ring	Ø 42 / 50 x 15.5	03.310.92.09.0	B			Ø 50		Ø 42	10	
1180	Graduated bush	Ø 24 / 62 / 42 x 20.5	03.113.00.58.0	C	20.5	15.7	Ø 62	Ø 42	Ø 24		
		Ø 24 / 62 / 42 x 22	03.113.00.28.0		22	18					
		Ø 24 / 62 / 42 x 24	03.113.00.51.0		24	20					
		Ø 24 / 62 / 40 x 24	03.113.00.54.0		33.5	27.5					Ø 40
		Ring	Ø 24 / 42 x 24	03.310.31.63.0	B			Ø 42		16	
			Ø 30 / 39 x 25	03.310.30.49.0	A			Ø 39		25	
		Bush	Ø 30 / 42 x 18	03.112.13.12.0	B			Ø 42		16	
		Graduated bush	Ø 30 / 45 / 40 x 31	03.113.01.29.0	C	31	25	Ø 45	Ø 40	Ø 30	
			Ø 30 / 62 / 42 x 22	03.113.01.37.0		22	18	Ø 62	Ø 42		
			Ø 30 / 62 / 40 x 31	03.113.01.47.0		31	25	Ø 62	Ø 40		
	Round wearing plate										
1520	Washer	Ø 30 / 121 x 5	03.320.36.08.0	E			Ø 121		Ø 30	4.75	
	Square wearing plate										
1520	Plate	Ø 56 / □ 105 x 4.5	03.281.15.03.0	F	105	105			Ø 56	4.5	
		Ø 56 / □ 105 x 4.5	03.281.24.17.0	G							
		Ø 56 / □ 101/140 x 4.5	03.281.35.16.0	F	101	140					
		Ø 56 / □ 101/140 x 5	03.281.25.07.0 V2A								
1525	Plate	□ 62/92 / □ 101/140 x 4.5	03.281.25.04.0	H	140	101			□ 62/92	4.5	
		□ 62/92 / □ 101/130 x 4.5	03.281.25.06.0	I	130						
		□ 62/92 / □ 101/140 x 4.5	03.285.25.34.0		140						
1525	Shaped plate	Ø 24 / angled bracket	03.164.35.03.0	J	121	125			Ø 24	5	
		Ø 24 / straight bracket	03.164.35.04.0								
		Ø 30 / straight bracket	03.164.35.01.0								
		Ø 30 / angled bracket	03.164.35.02.0								
1528	Washer	Ø 24 / 110 x 15	03.320.36.25.0	A			Ø 110		Ø 24	15	
		Ø 24 / 110 x 30	03.320.36.24.0							30	
		Ø 24 / 110 x 33	03.320.36.26.0							33	
		Ø 30 / 110 x 30	03.005.01.46.0							Ø 30	30
1530	Washer	Ø 24 / 36.6 / 50/70 x 15	03.320.14.09.0	K	15.6	9.8	Ø 70	Ø 50	Ø 24/36		
	Bush	Ø 24 / 36.6 / 55/90 x 20	03.113.00.50.0/1 *		20	14	Ø 90	Ø 55	Ø 24/36		
		Ø 30 / 42.6 / 55/90 x 20	03.113.01.43.0/1 *						Ø 30/42		
	Washer	Ø 24 / 50 / 110 x 20	03.320.16.09.0	L	19.5	9.8	Ø 110	Ø 50	Ø 24		
		Ø 30 / 50 / 110 x 18	03.320.16.03.0						Ø 100	Ø 30	
		Ø 30 / 50 / 110 x 20	03.320.16.04.0						19.5	Ø 24	
1531	Washer	Ø 24 / 50 / 70 x 15	03.320.14.08.0		15.5	9.8	Ø 70	Ø 50	Ø 24		
		Ø 30 / 50 / 70 x 16	03.320.14.07.0						15.5		Ø 30
		Ø 30 / 50 / 70 x 18	03.320.15.10.0						18.5		

* last digit 1 = with BPW Logo

Spare parts for ECO Air COMPACT air suspensions see pages 172 - 176.

6.1 Spare parts for spring pivot bolt bearings

Spare parts for spring pivot bolt bearings		
A		
Torsion protection with slotted bush, round wearing plate	Torsion protection with slotted bush, square wearing plate, pivot bush	Torsion protection with square internal lock bush, pivot bush
B	C	D
E	F	G
H	I	J
K	L	M

Spare parts for spring pivot bolt bearings 6.1

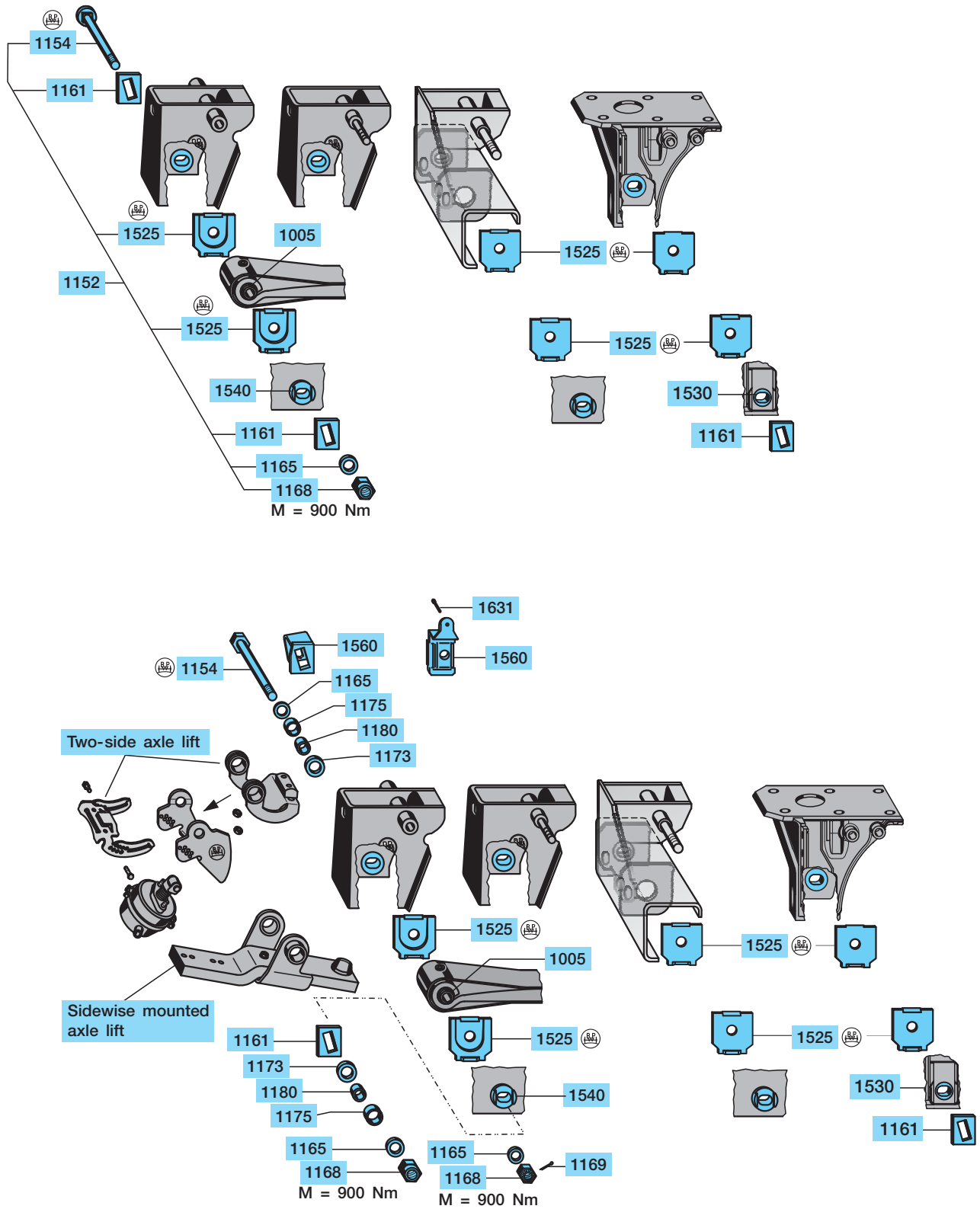
Spare parts for spring pivot bolt bearings

Item	Designation	Dimensions	BPW Code no.	Fig.	L	L 1	D	D1	d	B
1535	Bush ¹⁾ (Weld-in bush)		03.113.02.06.0 03.113.02.09.0	A	Torsion protection with slotted bush. No longer available. Conversion to torsion protection with square internal lock bush.					
		Ø 30 / 51 / 56 x 29	03.113.01.34.0	B	29		56	51	Ø 30.5	□ 30
		Ø 24 / 55 / 67.6 x 22	03.113.00.56.0	C	22		68	55	Ø 24.1	□ 24
		Ø 30 / 55 / 73.6 x 24	03.113.01.46.0	D	24		74	55	Ø 30.5	□ 30
1536	Ring	Ø 30 / 55 x 25	03.310.32.45.0 V2A	E			55		Ø 30.5	25
	Bush with welded on torsion protection	Ø 30 / 55 / 63 x 31	05.113.01.40.0 V2A	F			55	63	Ø 30.5	31
1540	Bush ¹⁾ (Weld-in bush)	Ø 24 / 36 / 67 x 21	03.113.03.10.0	G	52		62	55	Ø 24/36	21
		Ø 24 / 36 / 67 x 21	03.113.03.09.0 V2A	H			68	-		
		Ø 30 / 42 / 74 x 23	03.113.23.01.0	G	58		74	55	Ø 30/42	23
		Ø 30 / 42 / 74 x 23	03.113.01.45.0 V2A	H				-		
	Shaped part	92 x 62 x 29	03.001.14.86.0	I	72		92	62	70	29
1560	Shaped plate (welded on torsion protection)		03.161.35.07.0	J	110	90			47/60	6
	Adjusting plate with welded on torsion protection		05.001.32.01.0 05.001.32.02.0	K	135	72 58			31	8
1560	Shaped part (screwed on torsion protection)		03.001.14.88.0	L	142	78			Ø 31	5
1631	Hexagon screw	M 8 x 45	02.5071.37.00	-						
1570	Hexagon screw	M 18 x 1.5 x 60 - 10.9	02.5030.03.11	M						
1571	Hexagon nut	M 18 x 1.5 / SW 27	05.260.53.07.0							

¹⁾ Changing the weld-in bushes see pages 170 / 171.

Spare parts for ECO Air COMPACT air suspensions see pages 172 - 176.

6.2 Repair kits for spring pivot bolt bearings



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Repair kits for spring pivot bolt bearings

6.2

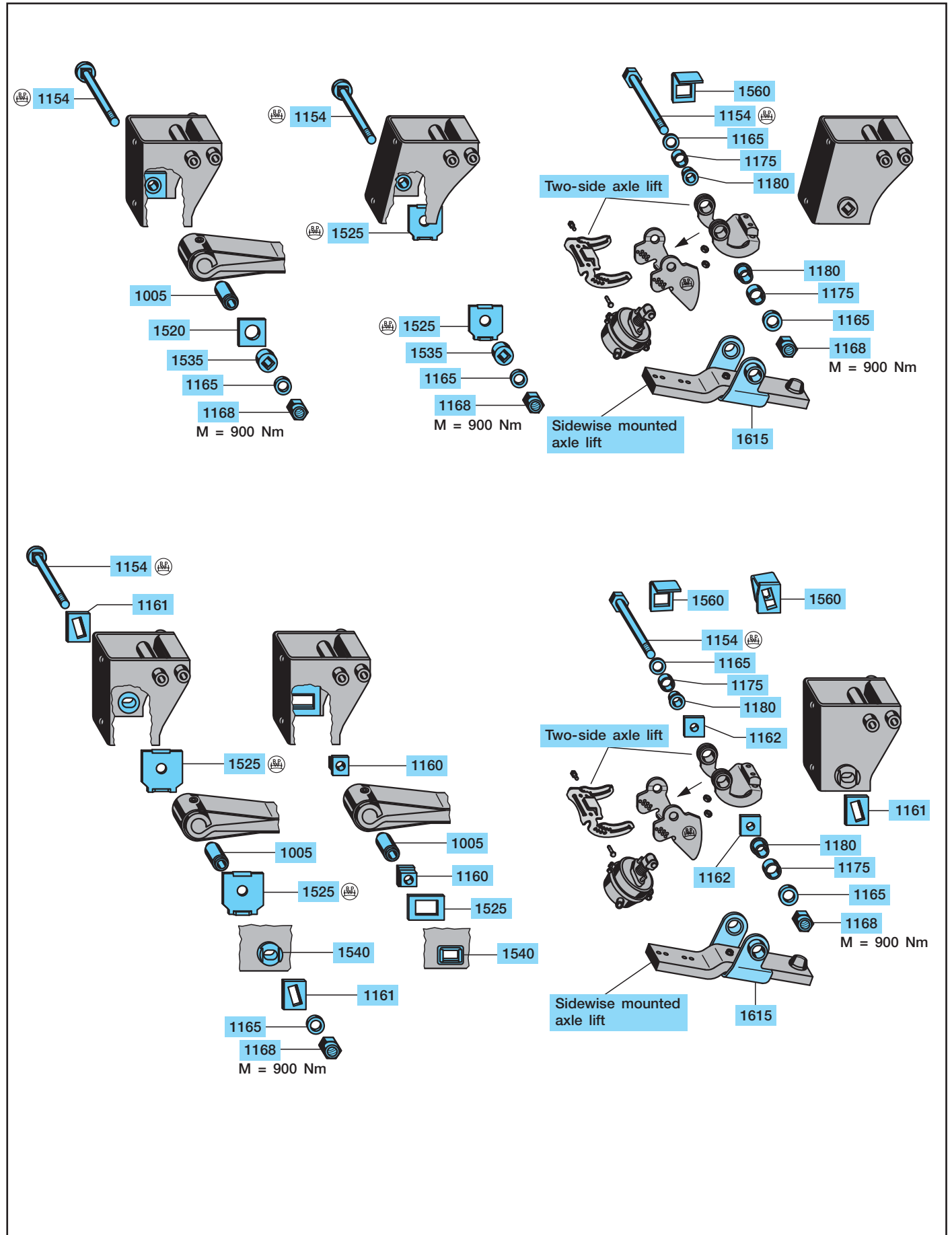
Spare parts see pages 62 - 67			Trailing arm width		70 mm							
			Thread		M 24				M 30			
S = Steel hanger bracket A = Alloy hanger bracket X = Stainless steel hanger bracket V = adjustable AV = Axle lift device					S	S	A	A	S	S	A	A
					X	V	V	V	X	V	V	V
					V			AV	V			AV
					BPW Repair kit BPW item 1150							
Item	Designation	Dimensions	BPW Code no.	09.801.07.38.0	09.801.07.79.0	09.801.07.81.0	09.801.07.84.0	09.801.07.19.0	09.801.07.80.0	09.801.07.82.0	09.801.07.83.0	
1152	Spring pivot bolt assembly Item 1154, 1161, 1165, 1168, 1525		05.857.00.28.0	●								
			05.857.00.29.0		●							
			05.857.00.30.0			●						
			05.857.00.31.0				●					
			05.857.00.18.0					●				
			05.857.00.19.0						●			
			05.857.00.20.0								●	
1005	Bush	Ø 24	02.0314.24.00	●	●	●	●					
		Ø 30	02.0315.98.00					●	●	●	●	
1154	Screw (Spring pivot bolt)	M 24 x 2 x 166	03.340.14.20.0	●	●							
		M 24 x 2 x 180	03.340.14.23.0			●						
		M 24 x 2 x 260	03.340.14.25.0				●					
		M 30 x 2 x 170	03.341.05.05.0					●	●			
		M 30 x 2 x 180	03.341.05.02.0							●		
		M 30 x 2 x 265	03.340.15.40.0									●
1161	Plate (adjusting plate)	Ø 24	03.281.44.25.0	●	●							
		Ø 24	03.281.54.20.0			●	●					
		Ø 30	03.281.54.18.0					●	●			
		Ø 30	03.281.54.19.0							●	●	
1165	Washer	Ø 26 / 60 x 6	03.320.33.28.0	●	●							
		Ø 25 / 70 x 12	03.005.31.38.0			●						
		Ø 25 / 36 x 6	03.320.30.41.0				●					
		Ø 31 / 71 x 6	03.320.34.53.0					●	●	●		
		Ø 31 / 57 x 6	03.320.32.38.0									●
1168	Lock nut	M 24 x 2 / SW 36	03.260.14.13.0	●	●	●	●					
		M 30 x 2 / SW 46	03.260.15.01.0					●	●	●		
1168	Castle nut	M 30 x 2 / 935-8	02.5204.35.60								●	
1169	Split pin	6.3 x 50 / 94	02.6201.62.01								●	
1173	Washer	Ø 31 / 56 x 10	03.320.32.41.0								●	
1175	Bush	Ø 42 / 50 / 64 x 17.5	03.113.04.11.0				●				●	
1180	Graduated bush	Ø 30 / 62 / 42 x 22	03.113.01.37.0				●				●	
1525	Shaped plate	Ø 24 / angled bracket	03.164.35.03.0	●								
		Ø 24 / straight bracket	03.164.35.04.0		●	●	●					
		Ø 30 / angled bracket	03.164.35.02.0					●				
		Ø 30 / straight bracket	03.164.35.01.0						●	●	●	
1530	Bush	Ø 24 / 36.6 / 55/90 x 20	03.113.00.50.1			●	●					
		Ø 30 / 42.6 / 55/90 x 20	03.113.01.43.1							●	●	
1540	Bush	Ø 24 / 36 / 67 x 21	03.113.03.10.0	●	●							
		Ø 30 / 42 / 74 x 23	03.113.23.01.0					●	●			

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6.2 Repair kits for spring pivot bolt bearings

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Repair kits for spring pivot bolt bearings

6.2

Spare parts see pages 62 - 67				Trailing arm width		100 mm										
				Thread		M 30										
S = Steel hanger bracket V = adjustable AV = Axle lift device						S	S	S	S AV	S AV	S V	S V	S V AV	S V AV	S V AV	S V AV
						BPW Repair kit BPW item 1150										
Item	Designation	Dimensions	BPW Code no.	09.801.06.28.0	09.801.06.29.0	09.801.07.02.0	09.801.06.77.0	09.801.07.03.0	09.801.06.87.0	09.801.06.92.0	09.801.07.75.0	09.801.07.77.0	09.801.07.78.0	09.801.07.76.0		
1152	Spring pivot bolt assembly Item 1154, 1160, 1161, 1165, 1168, 1525		05.857.00.12.0	●	●											
			05.857.00.24.0			●										
			05.857.00.09.0						●							
			05.857.00.15.0								●					
1005	Bush	Ø 30 SRS	02.0316.90.00	●		●	●	●	●			●		●		
		Ø 30 SR	02.0316.06.00		●											
1154	Screw (Spring pivot bolt)	M 30 x 2 x 200 / Ø 52	03.341.05.03.0	●	●	●										
		M 30 x 2 x 200 / Ø 62	03.341.05.04.0						●	●						
		M 30 x 2 x 265	03.340.15.37.0				●	●			●	●	●	●		
1160	Slider	Ø 30 / 50 x 58 x 20	03.181.20.08.0						●		●					
1161	Plate (adjusting plate)	Ø 30	03.281.54.18.0							●			●	●		
		Ø 30	03.281.54.14.0							●						
1162	Plate	Ø 31 / □ 72 x 10	03.281.63.11.0								●	●				
1165	Washer	Ø 31 / 71 x 6	03.320.34.53.0						●	●						
		Ø 31 / 57 x 6	03.320.32.38.0	●	●	●					●	●				
		A 31	02.5401.31.01				●	●								
		Ø 31 / 62 x 5	03.320.34.51.0											●	●	
1168	Lock nut	M 30 x 2 / SW 46	03.260.15.01.0	●	●	●	●	●	●	●	●	●	●	●		
1175	Bush	Ø 41 / 50 x 23	03.113.94.10.0				●	●			●		●			
1180	Ring	Ø 30 / 39 x 25	03.310.30.49.0								●					
	Graduated bush	Ø 30 / 62 / 40 x 31	03.113.01.47.0				●	●								
1520	Plate	Ø 56 / □ 101/140 x 4.5	03.281.35.16.0	●	●		●									
		Ø 56 / □ 105 x 4.5	03.281.15.03.0	●	●		●									
		□ 62/92 / □ 101/130 x 4.5	03.281.25.06.0							●		●				
		□ 62/92 / □ 101/140 x 4.5	03.281.25.04.0							●		●				
1525	Shaped plate	Ø 30 / straight bracket	03.164.35.01.0			●		●		●			●			
1535	Weld-in bush	Ø 30 / 51 / 56 x 29	03.113.01.34.0	●	●		●									
		Ø 30 / 55 / 73.6 x 24	03.113.01.46.0			●		●								
1540	Shaped part	92 x 62 x 29	03.001.14.86.0						●		●					
	Bush	Ø 30 / 42 / 74 x 23	03.113.23.01.0							●			●			
1560	Shaped plate (welded on torsion protection)		03.161.35.07.0				●	●			●	●				
	Adjusting plate with welded on torsion protection		05.001.32.02.0										●	●		
1615	Support		05.189.13.19.0				●									

7 BPW Air bags

O

General

Standard air bag

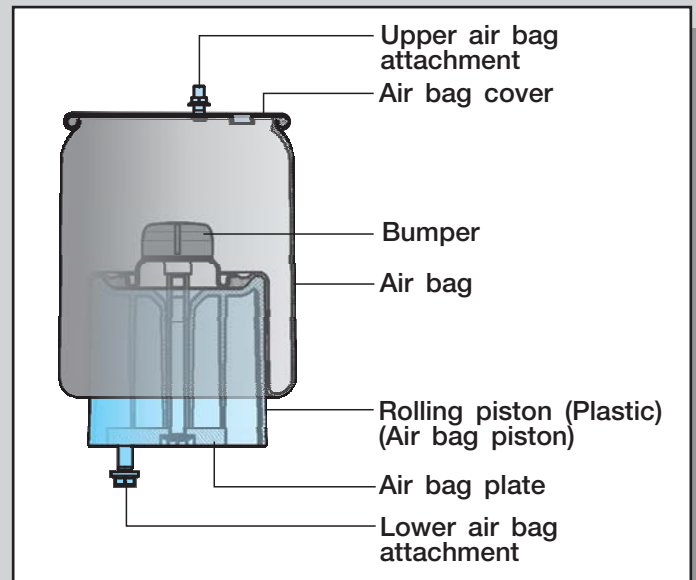
BPW Air bags are firmly rolled into the top air bag cover and are bonded onto the clamping plate at the bottom by vulcanisation.

The top air bag cover is either bolted onto the frame trussing or else a plate or bracket is welded onto the vehicle frame to attach the bag, depending on the bag version. The air bag cover is bolted onto it using two M 12 securing nuts.

The rolling piston is made from glass-fibre reinforced plastic with a steel support to give reduced weight and resistance to corrosion.

The integrated bump stop protects against damage when the bags are vented.

The air bag plate at the bottom is bolted onto the trailing arm using two M 16 securing bolts.



Reduced weight of the Airlight II air suspension with the new air bag 30 / 30 K

Within the scope of a further development of the Airlight II air suspension, BPW will be introducing new optimised trailing arms from 1 July 2010 as well as a centrally bolted air bag BPW 30 / 30 K for offset $V = 20$ mm.

Currently, the air bag is fastened to the trailing arm by means of a universal steel plate inserted into the base of the air bag piston with possible offsets 0 / 20 / 60. This steel plate is attached to the trailing arm with two bolts.

In future, the air bag with the most frequently used standard offset of $V = 20$ mm will be bolted directly onto the trailing arm with a single bolt. A four-hole pattern will be drilled into the new trailing arm. In addition to the new centrally bolted air bag, the familiar air bags BPW 30 / 30 K and BPW 36 / 36 K / 36-1 can continue to be attached using a steel plate and different offsets. When using the new centrally bolted air bag, 15 kg are saved on a 3-axle suspension compared to the old version (5 kg per module).

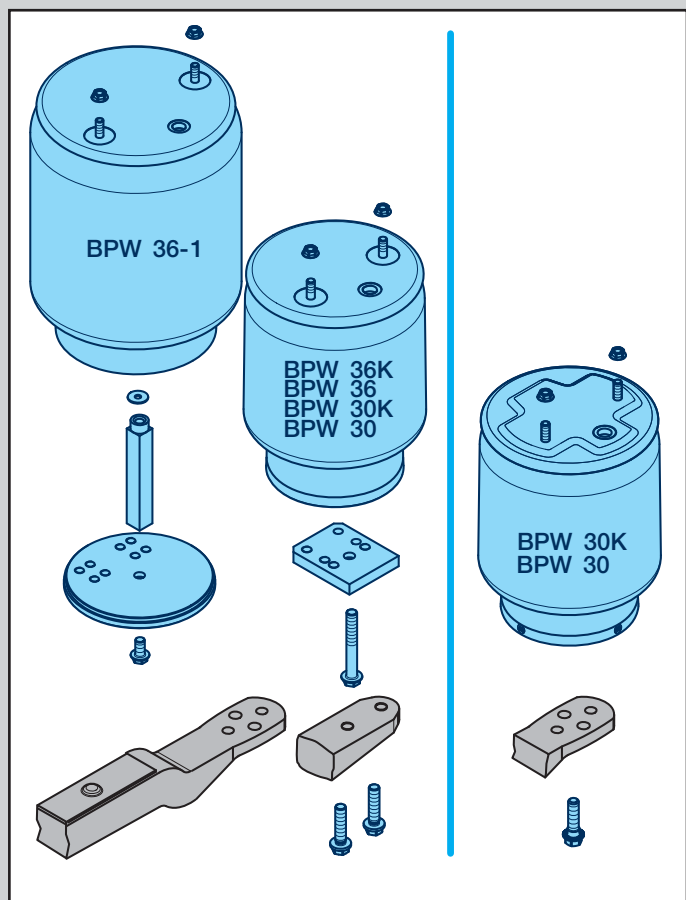
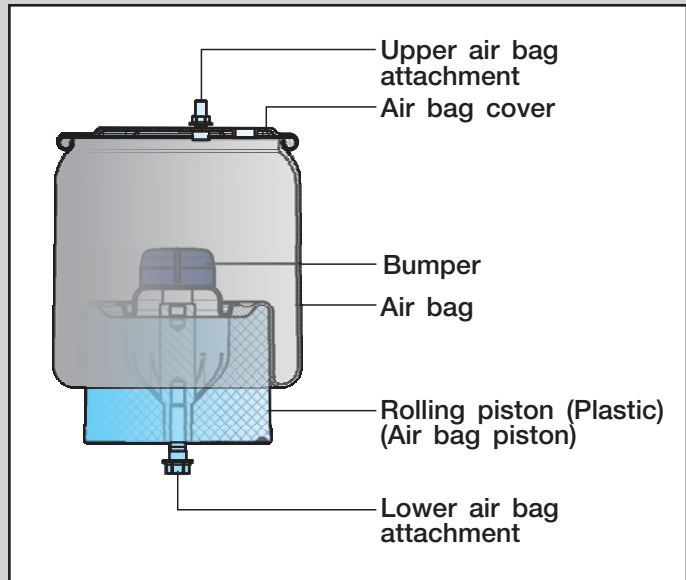
Note: Please note that the new air bag can only be combined with the new trailing arm.

It is impossible to mount a new air bag onto an old trailing arm by mistake due to the bolt / hole diameters.

The old air bag with the steel plate can, however, continue to be used for all versions with old or new trailing arm.

From a technical point of view, there are no restrictions to using both versions on the same axle or vehicle.

Your contact in our sales department will be pleased to assist you with planning the changeover.



7 BPW Air bags

O

SL

AL

Air bag with splitted piston (Combi-Air bag)

A combination air bag is divided into two parts: The air bag is bolted onto the vehicle frame with the rolling piston while the centring cone is connected to the trailing arm or integrated to the spring seats.

When the trailer is lifted, the axle and the cone move downwards. The movement is restricted by the shock absorbers.

However, the air bag remains in its rest position. When the trailer is lowered to the ground, the air bag and centring cone once more come together.

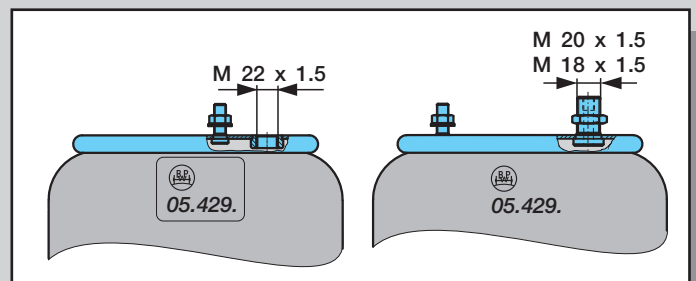
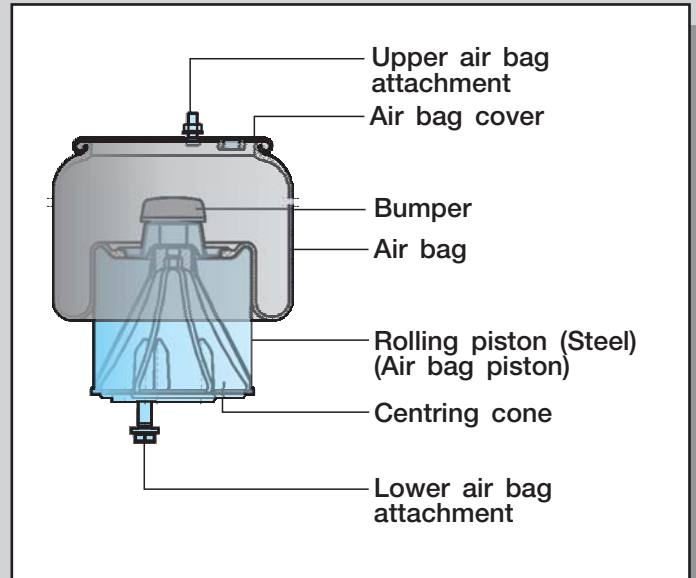
The bag can neither fold nor crease.

Stroke limiting

The upward travel is restricted by a bump stop inside the air bag. The downward travel must be restricted under certain application conditions.

Air supply

The pressure needed during driving is applied via a compressed air line that is connected to the air bag via the threaded sleeve (M 22 x 1.5) welded into the air bag cover or via a hollow stay bolt (M 18 x 1.5 / M20 x 1.5).



Determining replacement air bags

1. Clarifying design

- **Standard air bag or split air bag (combination air bag)**

Ø 300 **BPW 30** for stroke 200 mm
BPW 30 K for stroke 180 mm

Ø 360 **BPW 36** for stroke 200 mm
BPW 36 K for stroke 180 mm
BPW 36-1 for stroke up to 340 mm
BPW 36-2 for stroke up to 450 mm
BPW 36-5 for stroke up to 380 mm

The bag design as well as the BPW code no. of the bare air bag can be read off from every air bag.

2. Determining the type of air connection.

- Air connection to welded-in threaded sleeve in the air bag cover or to hollow stay bolt.

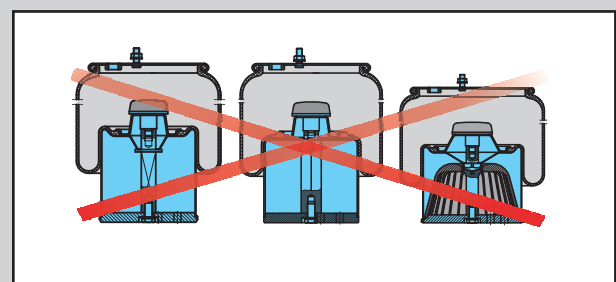
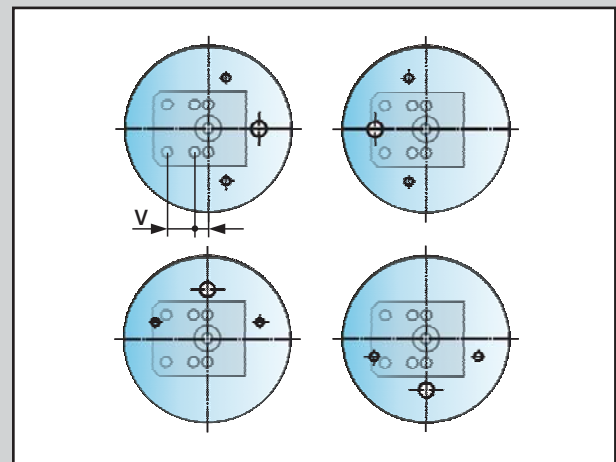
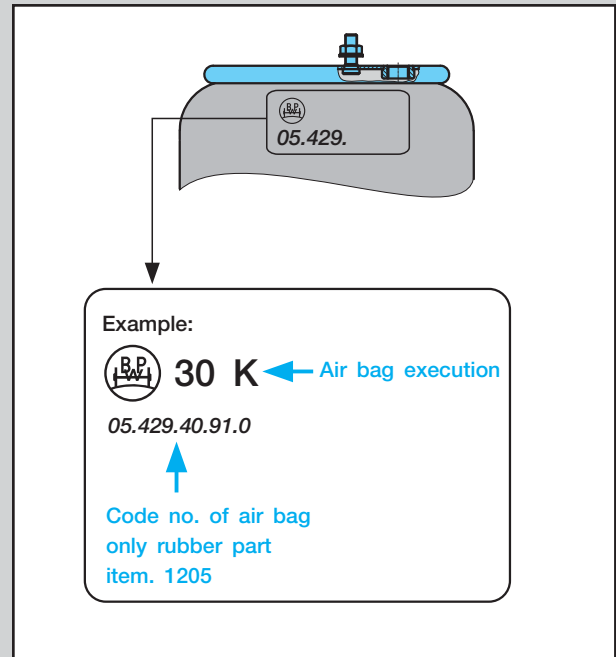
3. Air bag attachment

- Top air bag attachment in middle of bag or offset to the side?
- Measure the position of the top bag attachment on the frame in relation to the bottom bag attachment on the trailing arm (the maximum lateral offset between the top and bottom bag attachment is not allowed to exceed 10 mm). The top and bottom bag attachments must not be installed with any rotational misalignment!

4. Old version of air bags

Complete air bags of the older version, air bags with aluminium pistons and internal aluminium support as well as split bags with glass fibre-reinforced plastic taper (BPW 36) are no longer available.

If replacement is required, change over to BPW air bags with glass fibre-reinforced plastic piston. The most common spare parts for older air bags with steel piston are still available.



7.1 Air bags Ø 300

Air bags Ø 300

Fig. A

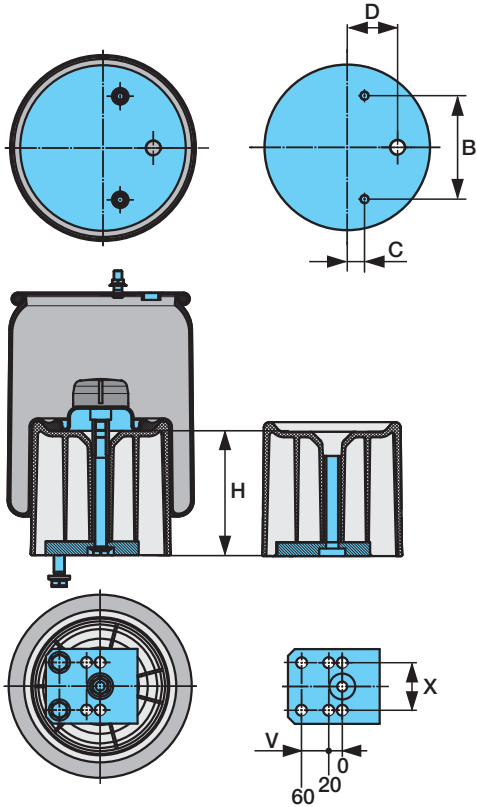
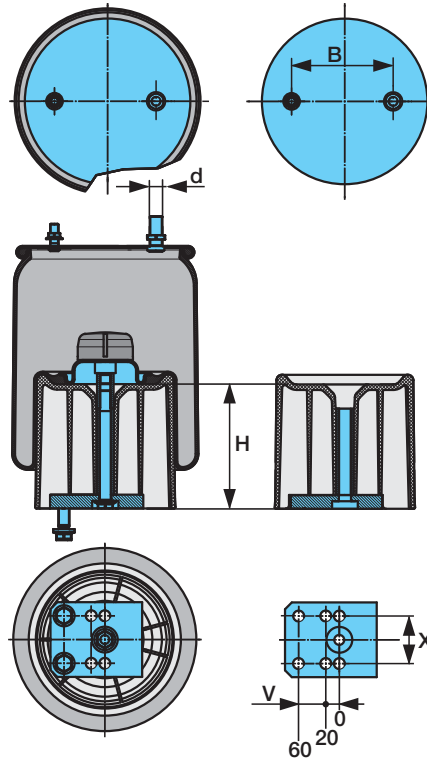


Fig. B



Observe position of upper and lower air bag attachment!

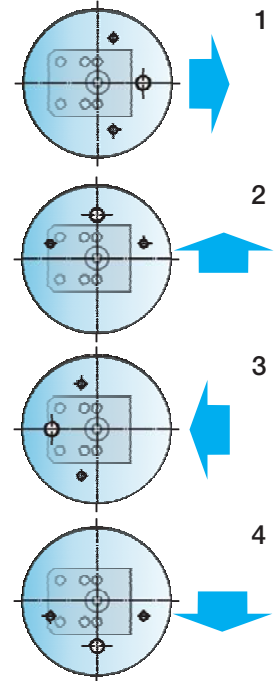
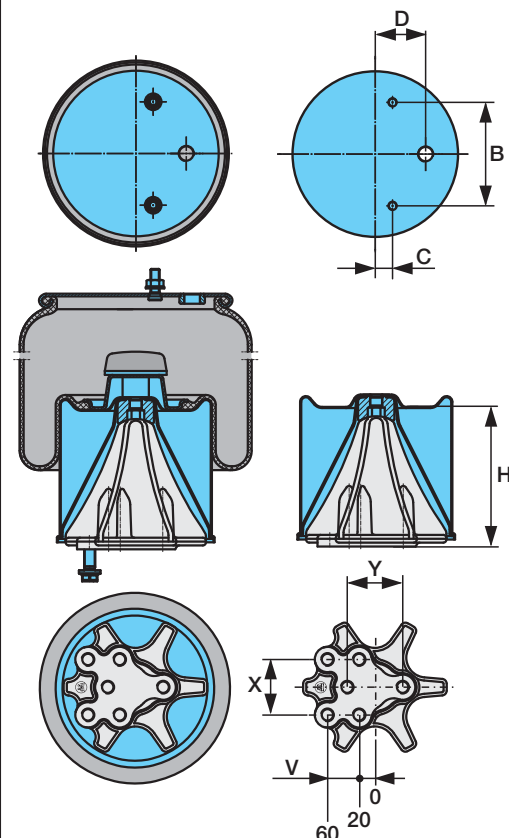
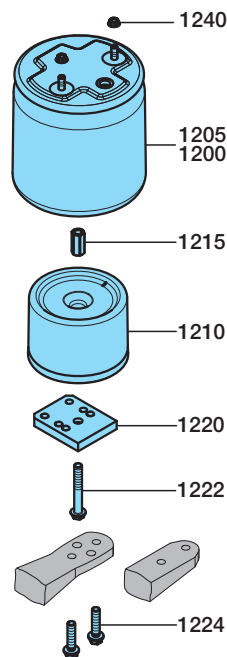


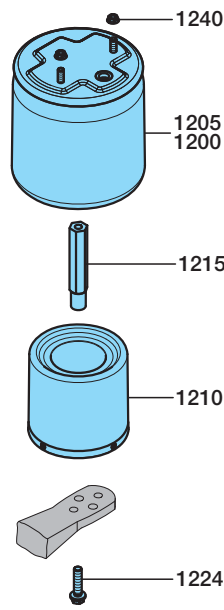
Fig. C



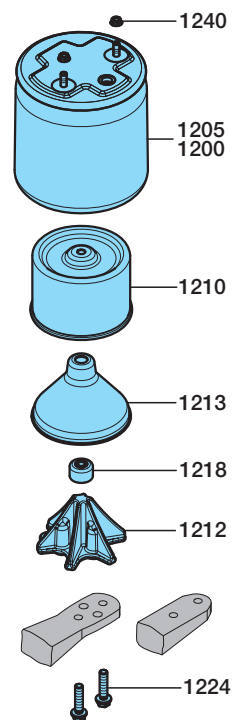
Air bag with plastic piston



Air bag with plastic piston central screwed



Combi-Air bag



Air bags Ø 300															
Fig.	V	X	H	Y	B	C	D	d	BPW Air bag cpl. item 1200	BPW Code no. only item 1205	Air bag piston item 1210 item 1210 / 1213	Lower plate item 1220 Centring cone (Combi-Airbag) item 1212			
BPW 30															
Air bag standard															
A 1	0 / 20 / 60	70	180	-	150	25	73	-	05.429.43.29.0	05.429.42.03.0	05.139.39.50.0	03.280.95.02.0			
A 3									05.429.43.30.0						
A 1									05.429.43.20.0	05.429.40.03.0					
A 2									05.429.43.34.0						
A 3									05.429.43.56.0						
-	0	-						05.429.43.85.0 *		03.139.39.56.0		-			
Air bag with integrated air connection in stud bolt															
B 2	0 / 20 / 60	70	180	-	170	0	0	M 18x1.5	05.429.43.25.0	05.429.41.25.0	05.139.39.50.0	03.280.95.02.0			
-	0	-			157			M 20x1.5	05.429.43.88.0 *	05.429.42.54.0	03.138.39.56.0		-		
Air bag with split piston (Combi-Air bag)															
C 1	0 / 20 / 60	70	180	70	150	25	73	-	05.429.41.91.1	05.429.40.03.0	03.139.00.22.0 03.139.00.23.0	03.375.09.37.0			
BPW 30 K															
Air bag standard															
A 1	0 / 20 / 60	70	135	-	150	25	73	-	05.429.43.27.0	05.429.42.04.0	05.139.39.51.0	03.280.95.02.0			
A 3									05.429.43.28.0						
A 1									05.429.43.21.0	05.429.40.91.0					
A 3									05.429.43.37.0						
A 1									05.429.43.22.0						
A 3	180		05.429.43.31.0		05.139.39.50.0										
-	0	-	135					05.429.43.86.0 *		03.139.39.57.0		-			
Air bag with integrated air connection in stud bolt															
B 1	0 / 20 / 60	70	135	-	150	157	0	0	M 20x1.5	05.429.43.23.0	05.429.41.77.0	05.139.39.51.0	03.280.95.02.0		
B 1									M 18x1.5	05.429.43.24.0	05.429.41.56.0				
B 3									M 18x1.5	05.429.43.32.0	05.429.41.56.0				
B 1									180		M 20x1.5	05.429.43.26.0	05.429.41.77.0	05.139.39.50.0	
-									0	-	135		157		
Air bag with split piston (Combi-Air bag)															
C 1	0 / 20 / 60	70	136	70	150	0	25	73	-	05.429.42.13.1	05.429.42.04.0	03.139.00.25.0 03.139.00.24.0	03.375.09.38.0		
C 1										05.429.42.05.1					
C 1										180		05.429.42.11.1		05.429.40.91.0	03.139.00.22.0 03.139.00.23.0

Air bags with steel or aluminium pistons are no longer available.
Conversion from steel or alloy piston to plastic piston.
BPW 30 Conversion kit **05.801.09.73.0** for 1 air bag
BPW 30 K Conversion kit **05.801.09.74.0** for 1 air bag
consisting of rolling piston (plastic), air bag plate, and attachment parts.

Conversion see page 80 - 81.
Further executions upon request.

* Air bag central screwed

7.2 Air bags Ø 360

Air bags Ø 360

Fig. A BPW 36 / BPW 36-1

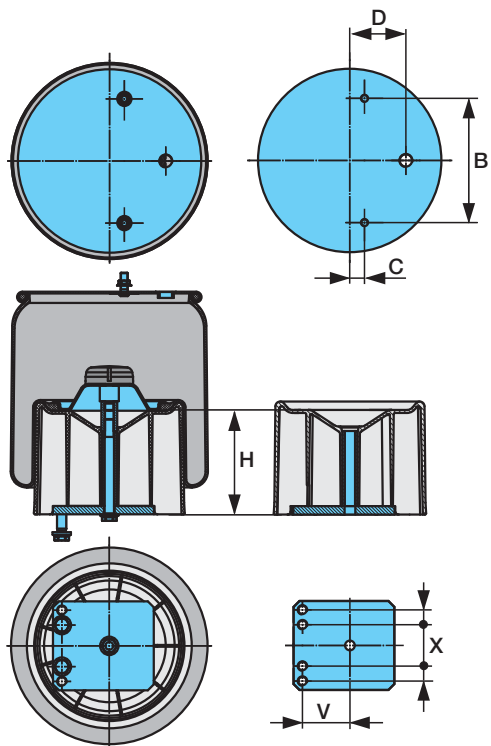
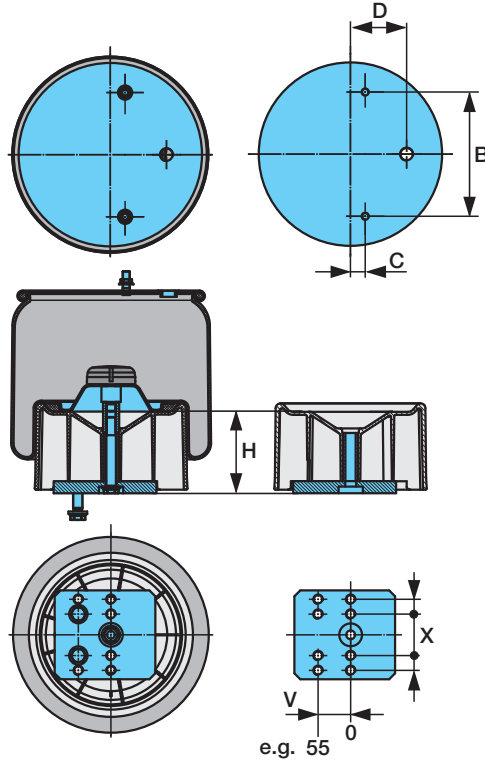


Fig. B BPW 36 K



Observe position of upper and lower air bag attachment!

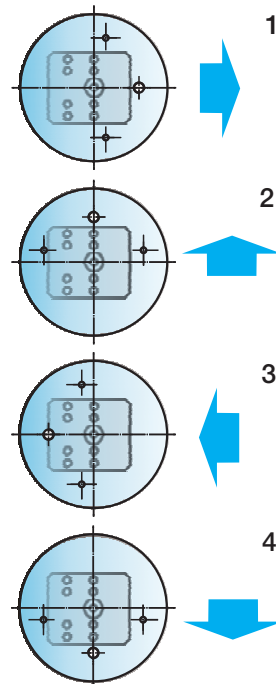
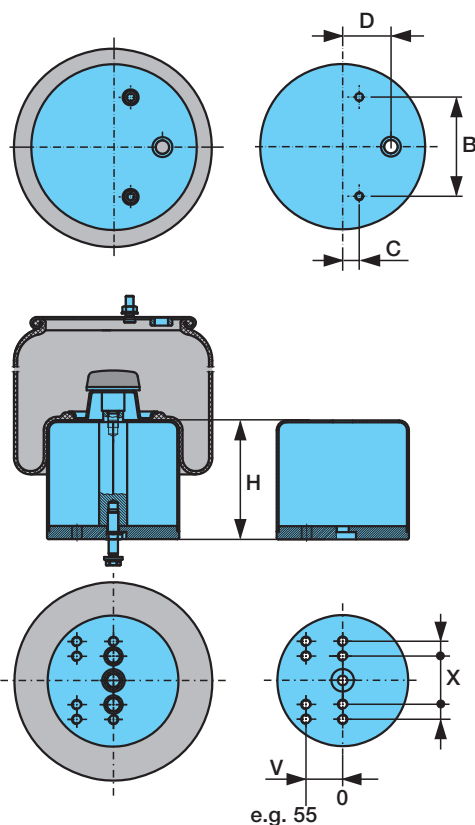
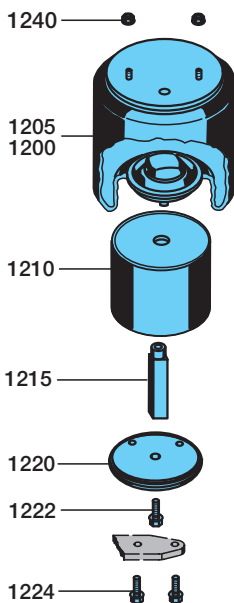


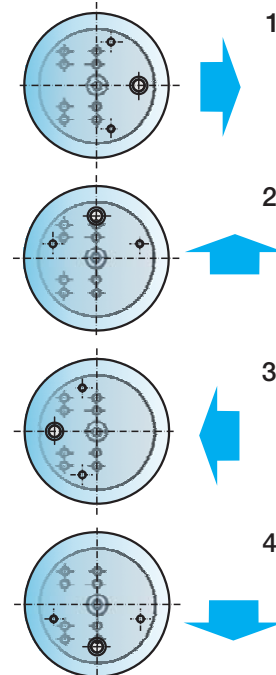
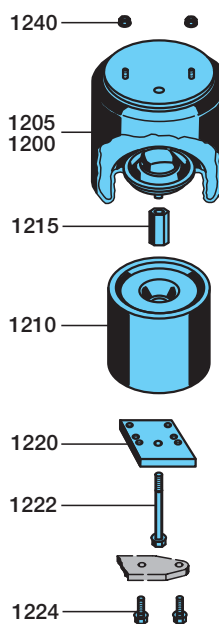
Fig. C BPW 36-1 (Steel piston)



Air bag with steel piston



Air bag with plastic piston

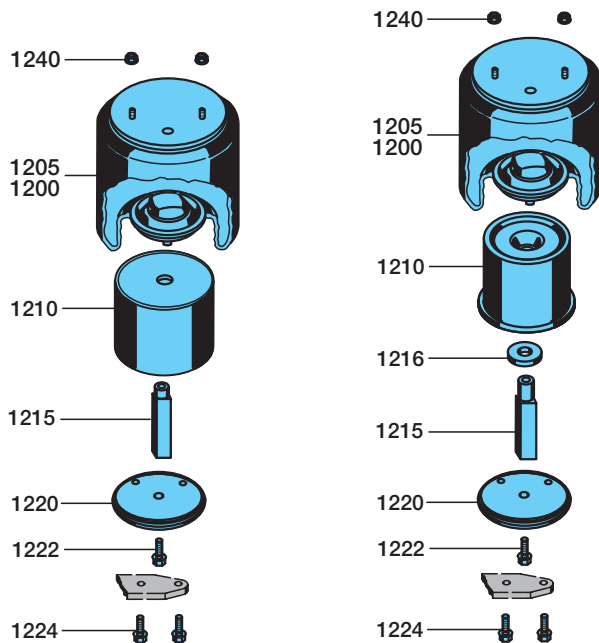


Air bags Ø 360												
Fig.	Dimensions						Remark	BPW Air bag cpl. Item 1200	BPW Code no. only Item 1205	Air bag piston Item 1210	Lower plate Item 1220	
	V	X	H	B	C	D						
BPW 36												
Air bag standard												
A 1	0 / 55	70 / 120	180	210	25	95	Plastic piston	05.429.43.48.0	05.429.40.01.0	05.139.39.52.0	03.280.95.04.0	
A 1	45 / 80		174					05.429.43.51.0			03.280.95.03.0	
A 3	80		174					05.429.43.50.0			03.280.75.04.0	
A 1	80		174					05.429.43.38.0				
C 1	0 / 55	70 / 120	215	210	25	95	Steel piston	05.429.41.84.0	05.429.40.01.0	03.139.00.04.0	03.320.09.46.0	
C 1	45 / 80		180					05.429.41.54.0			03.320.09.35.0	
C 1	32 / 90		180					05.429.40.61.1			03.139.39.43.0	03.320.09.23.0
BPW 36 K												
Air bag standard												
B 1	0 / 55	70 / 120	135	210	25	95	Plastic piston	05.429.43.46.0	05.429.41.01.0	05.139.39.53.0	03.280.95.04.0	
B 3			180					05.429.43.49.0				05.139.39.52.0
B 3			180					05.429.43.47.0				05.139.39.52.0
B 1	45 / 80		135					05.429.43.41.0		05.139.39.53.0	03.280.95.03.0	
B 3			180					05.429.43.44.0				
B 3			180					05.429.43.58.0				
B 1	80	129	05.429.43.39.0	05.139.39.53.0	03.280.75.04.0							
C 1	32 / 90	70 / 120	135	210	25	95	Steel piston	05.429.41.04.1	05.429.41.01.0	03.139.39.48.0	03.320.09.23.0	
BPW 36-1												
Air bag standard												
A 1	45 / 80	70 / 120	180	210	25	95	Plastic piston	05.429.43.45.0	05.429.40.05.0	05.139.39.52.0	03.280.95.03.0	
C 1	0 / 55	70 / 120	215	210	25	95	Steel piston	05.429.42.01.0	05.429.40.05.0	03.139.00.04.0	03.320.09.46.0	
C 3								05.429.41.83.0				
C 1	45 / 80		210					05.429.41.69.0			03.320.09.35.0	
C 1	80		210					05.429.41.38.0			03.320.09.33.0	
C 1	32 / 90		215					05.429.41.59.0			03.320.09.23.0	
BPW 36 Airlight^{Direct}												
-	-	-	210	190	25	95	-	05.429.42.52.0	05.429.42.51.0	03.139.38.01.0 03.139.00.27.0		
Types BPW 36 and BPW 36 K air bags with steel or aluminium pistons are no longer available in some cases. Conversion from steel or alloy piston to plastic piston.												
BPW 36	Conversion kit 05.801.21.33.0		V = 0 / 55	for 1 air bag		consisting of rolling piston (plastic), air bag plate and attachment parts.						
	Conversion kit 05.801.21.32.0		V = 45 / 80									
	Conversion kit 05.801.21.31.0		V = 80									
BPW 36 K	Conversion kit 05.801.21.30.0		V = 0 / 55	for 1 air bag								
	Conversion kit 05.801.21.29.0		V = 45 / 80									
	Conversion kit 05.801.21.28.0		V = 80									
Conversion see page 80 - 81. Further executions upon request.												

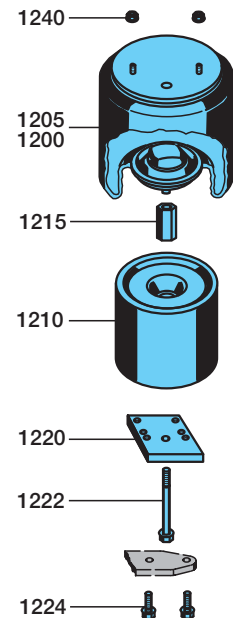
7.3 Conversion from steel piston to plastic piston

Conversion from steel or alloy piston to plastic piston

Air bag with steel or aluminium piston



Air bag with glass fibre-reinforced plastic piston



Types BPW 30 / 30 K / 36 and 36 K air bags with steel or aluminium pistons are no longer available in some cases.
If replacement is required, change over to the air bag with glass fibre-reinforced plastic piston.

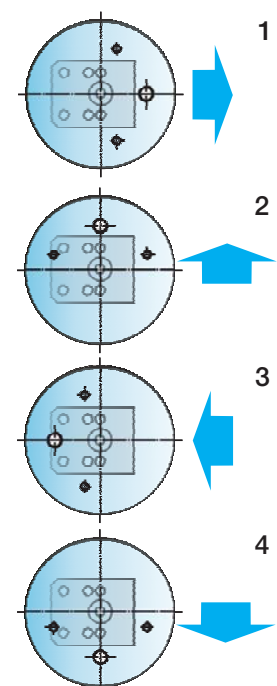
Observe position of upper and lower air bag attachment!

Dismantling:

- Admit as much air into the air bag as possible through the air suspension or rotary disc valve / switching valve. Support the vehicle safely so there is no risk of accident, e.g. place a suitable spacer between the vehicle frame and the trailing arm.
- Vent the air bag.
- Remove the compressed air connection.
- Unscrew top (1240) and bottom (1224) bag attachments and remove the air bag.
- Blow compressed air into the hole for the air connection until the bag is completely unrolled.
- Unscrew and remove locking screw (1222) and take off bottom washer (1220).
- Unscrew and remove square bolt (1215) using an impact driver and remove piston (1210) from the air bag.

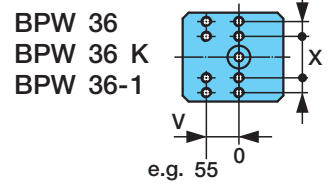
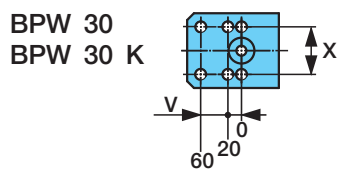
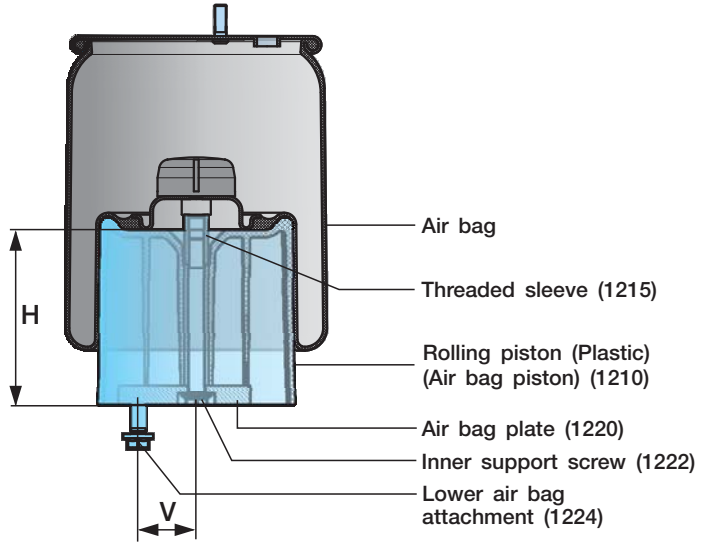
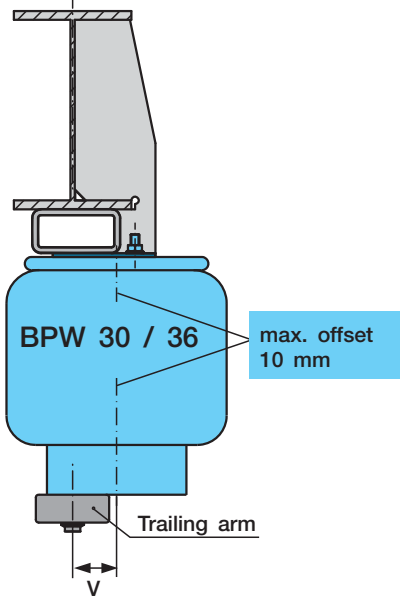
Assembly:

- Screw threaded sleeve (1215) onto the air bag to a tightening torque of 130 Nm.
- Place bottom base plate (1220) into glass fibre-reinforced plastic piston (1210) and screw on loosely using locking screw (1222).
- Align the top and bottom bag attachment points in relation to one another and tighten locking screw (1222) to a tightening torque of 230 Nm (The air bag must not be twisted after installation in the vehicle!)
- Install the air bag into the vehicle, tighten the top and bottom attachments to the corresponding tightening torque. Connect the air connections. Check for leaks.
- Admit air into the air bag, remove the support.



Conversion from steel piston to plastic piston 7.3

Conversion from steel or alloy piston to plastic piston



The maximum lateral offset between the upper and lower attachments must not exceed 10 mm.

Item	Designation	Remark	BPW Code no.	Dimensions			Application			
				V	X	H				
			BPW 30							
1248	Conversion kit cpl.		05.801.09.73.0	0 / 20 / 60	70	194	BPW 30			
			05.801.09.74.0			149	BPW 30 K			
						BPW 36				
			05.801.21.33.0	0 / 55	70 / 120	188	BPW 36			
			05.801.21.32.0	45 / 80			BPW 36			
			05.801.21.31.0	80			BPW 36			
			05.801.21.30.0	0 / 55	143	BPW 36 K				
05.801.21.29.0	45 / 80	BPW 36 K								
05.801.21.28.0	80	BPW 36 K								

Conversion kit cpl. consisting of:

- Rolling piston (Air bag piston) (Item 1210)
- Lower air bag plate (Item 1220)
- Threaded sleeve (Item 1215)
- Inner support screw (Item 1222)
- Lower attachment screws (Item 1224)

O

SL

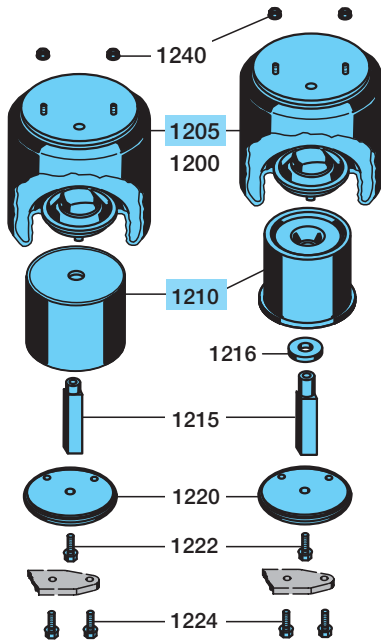
AL

7.4 Spare parts for air bags

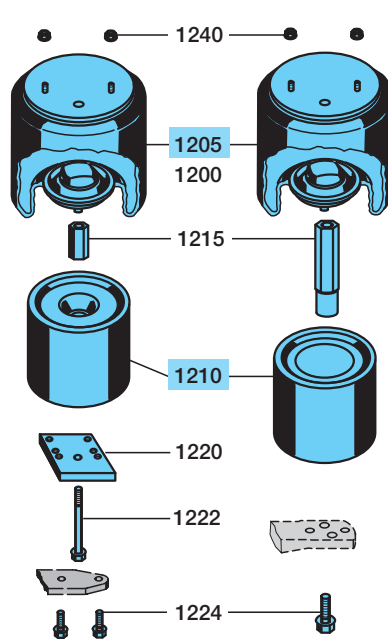
Spare parts for air bags

Air bag standard

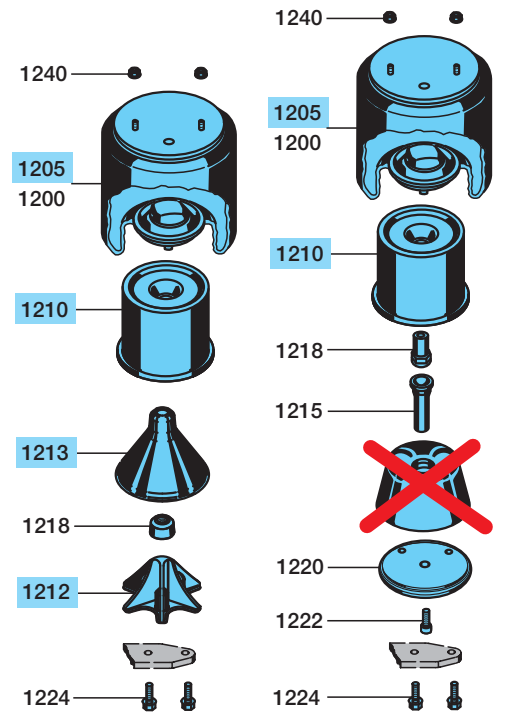
Air bag with steel piston



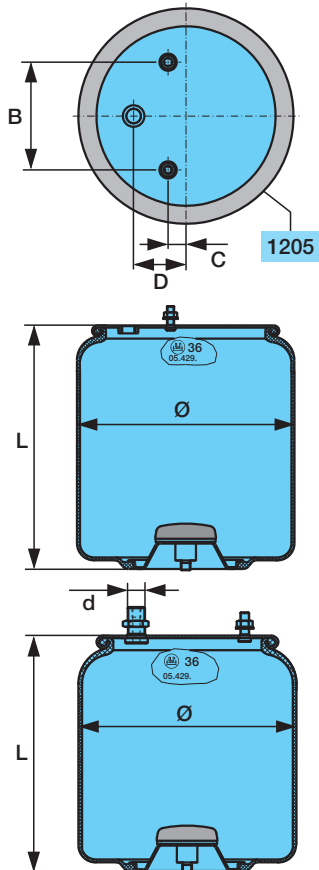
Air bag with plastic piston



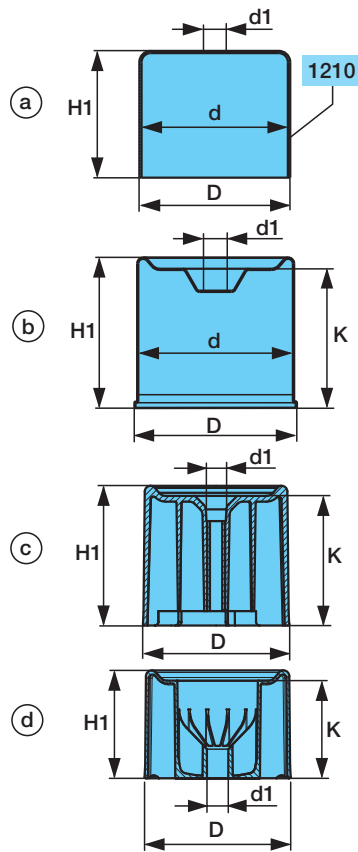
Air bag with split piston (Combi-Air bag)



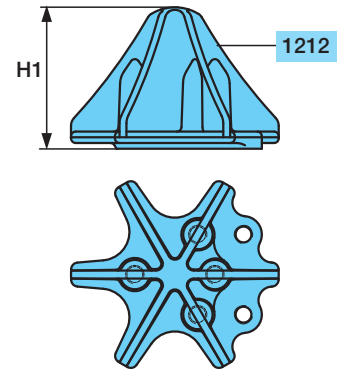
A



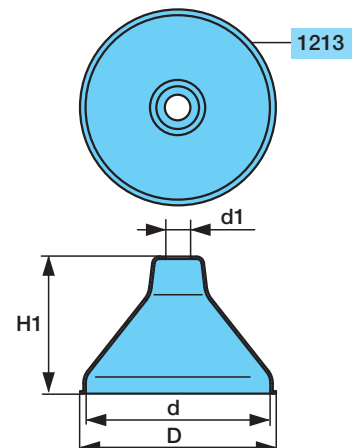
B



C



D



Spare parts for air bags															
Item	Designation	Remark	BPW Code no.	Fig.	Dimensions					Designation of air bag					
					Ø	L	d	B	C		D				
BPW 30..															
1205	Air bag, only	05.429.40.03.0	A	300	520	-	150	25	73	BPW 30	941 MB				
		05.429.41.25.0				M 18	170	0	0		4941 N				
		05.429.42.03.0				-	150	0	73		4962 N				
		05.429.40.91.0				-	150	25	73		BPW 30 K	940 MB			
		05.429.41.56.0			M 18	170	0	0	4940 N						
		05.429.41.77.0			M 20	158	0	73	4960 N						
		05.429.42.04.0			-	150	0	73	4961 N						
		05.429.40.72.0			610	-	150	25	73	BPW 30-1	951 MB				
		BPW 36..													
		05.429.40.01.0			A	360	530	-	210	25	95	BPW 36	881 MB		
430	BPW 36 K		4881 MB												
610	BPW 36-1		942 MB												
789	BPW 36-2		4942 MB												
BPW 36 Airlight^{Direct}															
05.429.42.51.0	-	360	300	-	210	25	95	BPW 36 N	1 DK 32 S						
Spare parts for air bags															
Item	Designation	Remark	BPW Code no.	Fig.	Dimensions					Remark					
					D	d	H1	d1	K						
BPW 30															
1210	Piston	03.139.00.25.0	B b	201	194	143	16	139	Steel piston						
		03.139.00.22.0	B b	201	194	186	16	172							
		05.139.39.51.0	B c	203	-	149	27	135	Plastic piston (GFK)						
		03.139.39.57.0 *	B d	202	-	149	29	135							
		05.139.39.50.0	B c	203	-	194	27	180							
		03.139.39.56.0 *	B d	203	-	194	29	180							
BPW 36															
03.139.00.04.0	B a	250	244	203	30	-	-	Steel piston							
									03.139.00.17.0	293	30	-			
								03.139.39.48.0	B b	251	244	143	30	129	
								05.139.39.53.0	B c	253	-	143	27	129	Plastic piston (GFK)
								05.139.39.52.0	B c	253	-	188	27	174	
BPW 36 Airlight^{Direct}															
03.139.38.01.0	-	256	-	91	68	91	Plastic piston (GFK)								
Glass fibre-reinforced plastic tapers for split air bags D 36 are no longer available. If replacement is required, change over to the BPW 30 combination air bag or the normal air bag!															
Item	Designation	Remark	BPW Code no.	Fig.	Dimensions										
					D	d	H1	d1							
BPW 30 Combi-Air bag															
1212	Centring cone	03.375.09.38.0	C	-	-	123	-								
		03.375.09.37.0				168									
1213	Piston	03.139.00.24.0	D	200	193	140	25								
		03.139.00.23.0		200	193	181	25								
		BPW 36 Airlight^{Direct}													
03.139.00.27.0	~ D	246	-	86	32										
* piston for central screwed air bag															

7.4 Spare parts for air bags

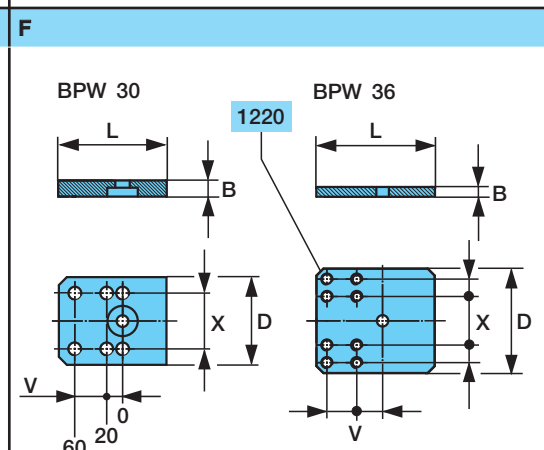
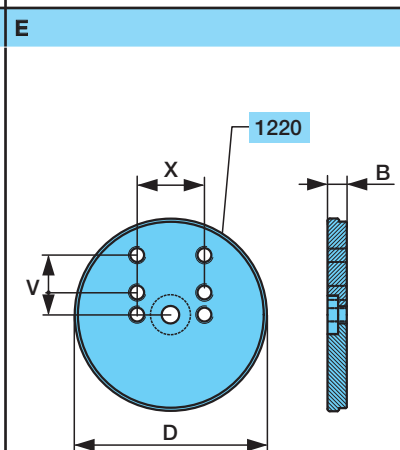
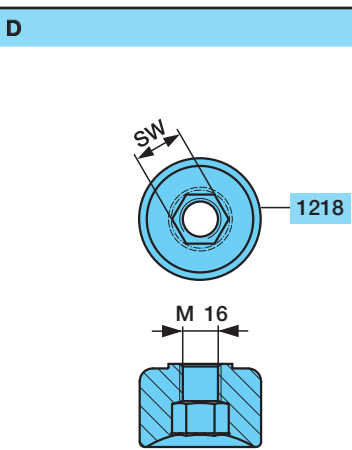
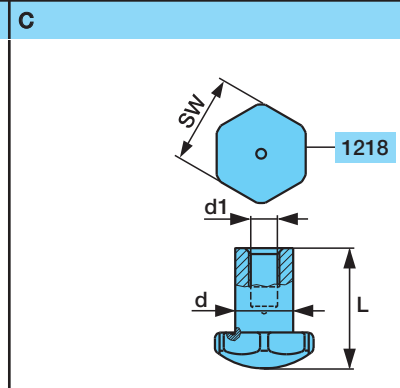
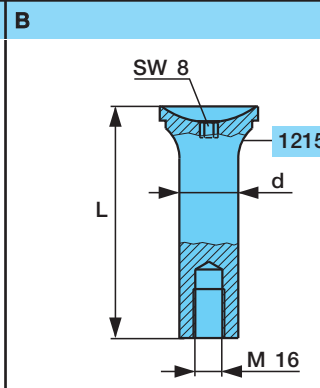
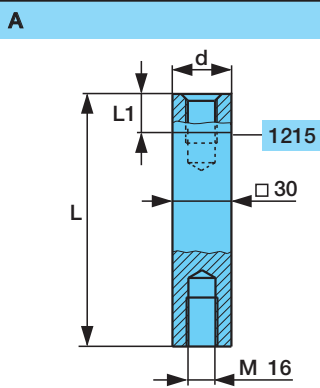
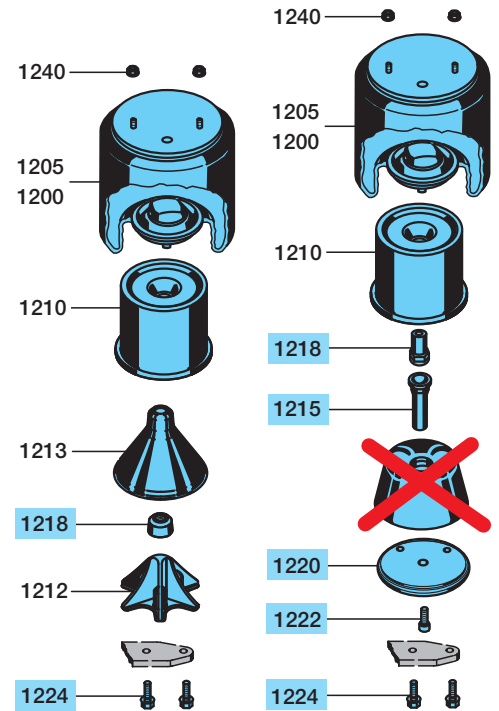
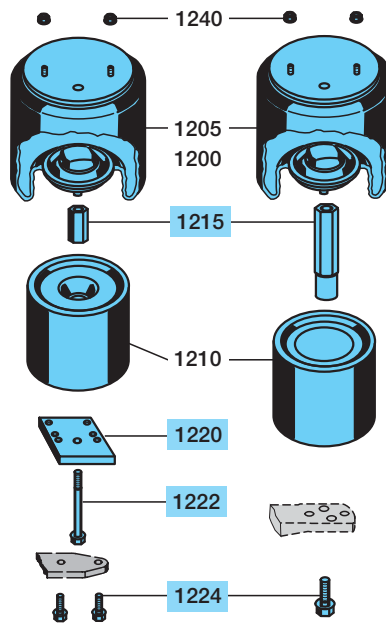
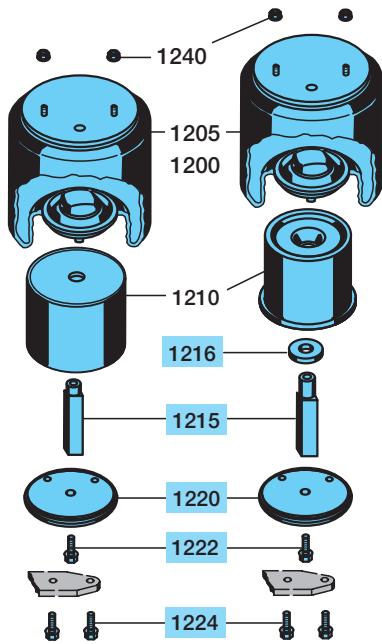
Spare parts for air bags

Air bag standard

Air bag with split piston (Combi-Air bag)

Air bag with steel piston

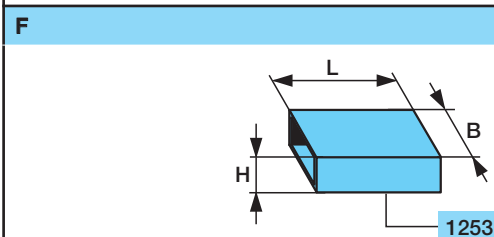
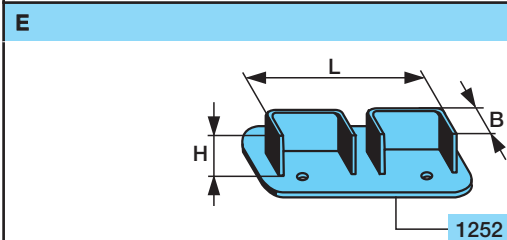
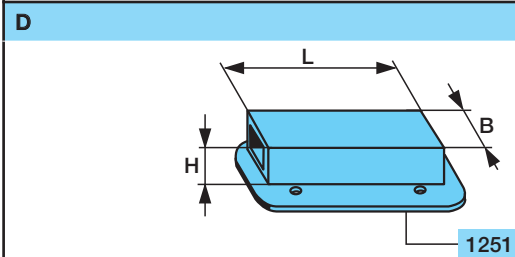
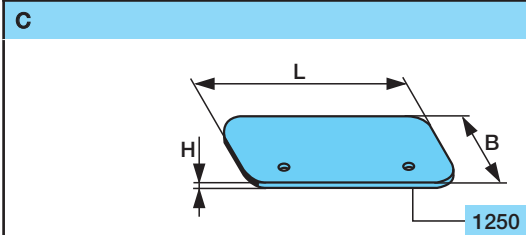
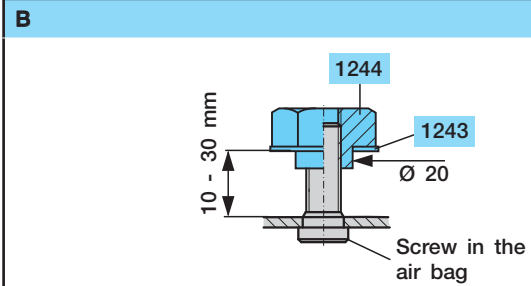
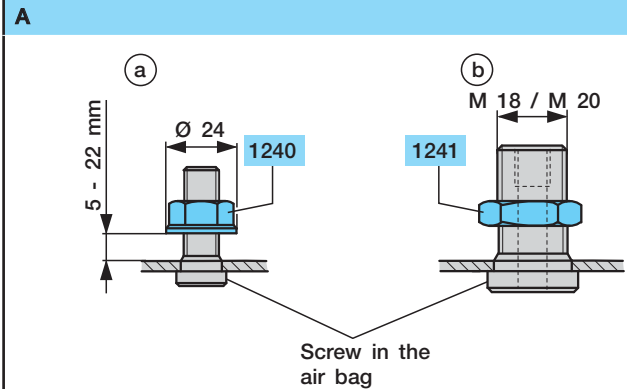
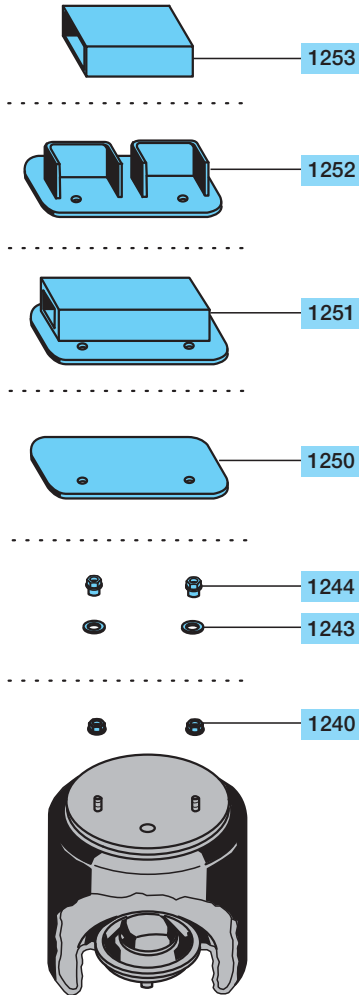
Air bag with plastic piston



Spare parts for air bags										
Item	Designation	Remark	BPW Code no.	Fig.	Dimensions			Application		
					L	L1	d			
Steel piston										
1215	Bolt		03.084.46.41.0	A	124	48	30	BPW 30 K		
			03.084.66.36.0		129	17	30	BPW 30 K		
			03.084.46.31.0		129	48	30	BPW 30 K / 36 K		
			03.084.46.40.0		169	48	30	BPW 30 / 30 K		
			03.084.66.30.0		174	17	30	BPW 36		
			03.084.46.28.0		174	48	30	BPW 30 / 30 K / 36 / 36 K		
			03.084.66.31.0		209	17	30	BPW 30 / 36 / 36-1		
			03.084.66.37.0		299	17	30	BPW 36-2		
1216	Ring		03.310.31.43.0	-	Ø 30 / 55 x 5			for bolt L1 = 48		
Plastic piston (GFK)										
1215	Threaded sleeve		03.179.03.08.0	-	M 16 x 51 / SW 24			BPW 30 / BPW 36		
1215	Bolt		03.084.46.43.0	-	M16/Ø30x40/150/SW32			BPW 30 K	Air bag with central screw	
			03.084.46.42.0	-	M16/Ø30x40/195/SW32			BPW 30		
Air bag with split piston (Combi-Air bag)										
1215	Bolt		03.084.37.09.0	B	73		BPW 36 K			
			03.084.37.07.0		118		BPW 36			
1218	Bolt		03.084.27.09.0	C	Ø 30 x 62 / SW 46			BPW 36 / BPW 36 K		
1218	Nut		03.266.02.02.0	D	M 16 / SW 19			BPW 30 / BPW 30 K		
BPW 36 Airlight^{Direct}										
1218	Shaped part		03.001.35.01.0	-	Ø 13 / 20 / 59 x 25			BPW 36 N		
1219	Screw		03.340.11.19.0	-	M 12 x 27-8.8					
Item	Designation	Remark	BPW Code no.	Fig.	Dimensions					Application
					V	X	B	D	L	
BPW 30										
1220	Plate		03.280.95.02.0	F	0/20/60	70	20	110	135	BPW 30 / BPW 30 K GFK
1220	Washer		03.320.09.22.0	E	20	70	20	200	-	BPW 30 / BPW 30 K
BPW 36										
1220	Plate		03.280.95.04.0	F	0/55	70/120	20	150	170	BPW 36 / BPW 36 K GFK
			03.280.95.03.0		45/80		20	150	170	
			03.280.75.04.0		80		14	150	170	
1220	Washer		03.320.09.49.0	E	45/80	70	20	249	-	BPW 36 / BPW 36 K
			03.320.09.35.0		45/80	70/120	20	250	-	
			03.320.09.33.0		80	70	14	250	-	
			03.320.09.23.0		90	120	20	250	-	
Attachment central bolt with steel piston										
1222	Locking screw		02.5070.98.91	M 16 x 30						
			02.5070.94.91	M 16 x 35						
Central screw with plastic piston										
1222	Screw		03.340.12.24.0	M 16 x 115			piston height < 150 mm			
			03.340.12.23.0	M 16 x 160			piston height > 180 mm			
Attachment trailing arm - air bag										
1224	Locking screw		02.5070.97.00	M 16 x 55						
			02.5070.95.00	M 16 x 65						
			02.5070.96.00	M 16 x 75						
1224	Locking screw		02.5071.61.16	M 16 x 61 / SW 22			Air bag with central screw			

7.5 Upper air bag attachment / spacers

Upper air bag attachment / spacers



Upper air bag attachment / spacers 7.5

Upper air bag attachment / spacers									
Item	Designation	Remark	BPW Code no.	Fig.	Dimensions			Application	
Upper air bag attachment									
Steel frame									
1240	Lock nut		02.5273.33.80	A a	M 12			Steel frame 5 - 22 mm	
Steel frame / integrated air connection in stud bolt									
1241	Hexagon nut		02.5230.18.00	A b	M 18			Steel frame 5 - 22 mm	
			02.5201.76.06		M 20				
Alloy frame									
1243	Spring washer		02.5403.20.90	B	B 20 / 137			Alloy frame 10 - 30 mm	
1244	Hexagon nut		03.260.11.01.0		M 12 / Ø 20 / SW 30				
Spacers									
Item	Designation	Remark	BPW Code no.	Fig.	Dimensions			Application	
					H	B	L		
1250	Plate		03.281.47.12.0	C	5	140	300	BPW 30	
			03.285.47.24.0		5	200	360	BPW 36	
1251	Support		05.189.07.33.0	D	40	120	240	BPW 30	
			05.189.06.93.0		60				
			05.189.07.34.0		100				
			05.189.07.11.0		40	120	300		BPW 36
			05.189.06.57.0		60				
			05.189.07.02.0		100				
1252	Support		05.189.07.29.0	E	40	60	270	BPW 30	
			05.189.07.30.0		60				
			05.189.07.28.0		100				
			05.189.07.88.0		40	60	300		BPW 36
			05.189.07.89.0		60				
			05.189.07.90.0		100				
1253	Square tube		03.391.69.24.0	F	60	120	200	BPW 30	
			03.391.69.42.0		60	140	200		
			03.391.53.72.0		100	120	200		
			03.391.69.18.0		80	140	120		BPW 30 / BPW 36
			03.391.52.80.0		100	120	120		

8 Shock absorbers

General

BPW Shock absorber

The shock absorber reduces vibration in the vehicle body and ensures greater driving comfort and road safety. This is because the wheels stay in contact with the road and dynamic wheel load fluctuations are reduced.

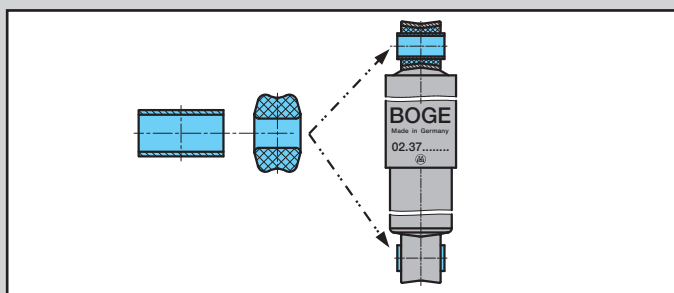
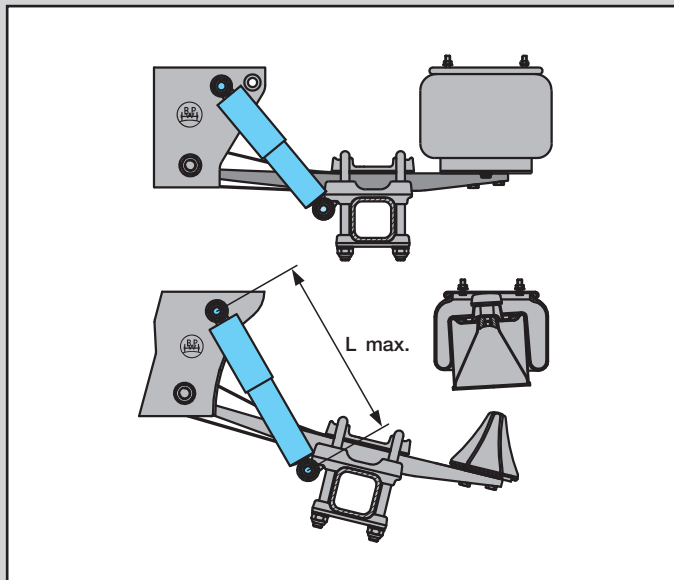
BPW uses various types of shock absorber to guarantee the best possible damping in each case. In turn, this ground contact is responsible for the tracking stability and braking properties of the vehicle.

High-volume BPW shock absorbers are adapted to the vehicle, the overall height and the range of applications.

Using the split air bag (Combi-Air bag + Airlight^{Direct}) with air suspensions, the shock absorber is fitted with an end stop in order to avoid any further axle travel.

The rubber bushes of BPW shock absorbers (BOGE-Shock absorber) can be replaced (see page 91).

Shock absorbers should only be built in and changed per axle. Individual axles can be equipped in different ways within a multi-axle vehicle.



General

PDC

The BPW PDC (Pneumatic Damping Control) shock absorber improves driving properties and comfort – whatever the load. The best damping, better road safety, lower maintenance costs – given all these reasons, you don't need to think long and hard before fitting or retrofitting BPW air suspension systems with PDC.

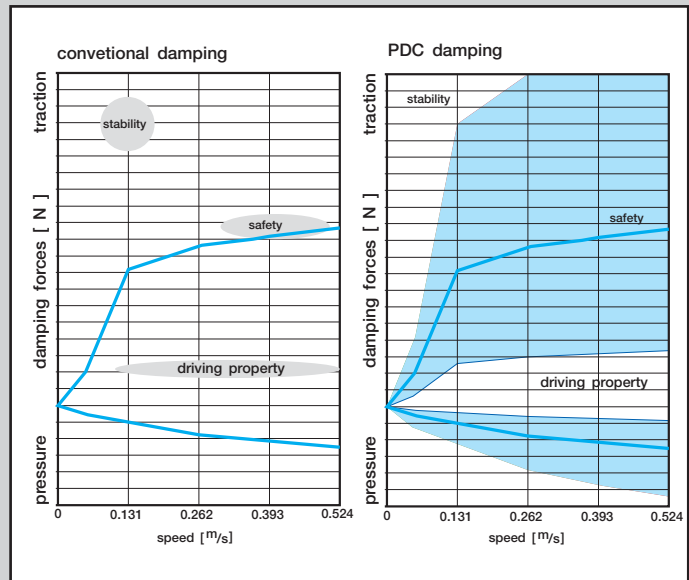
Function

The disadvantage with conventional shock absorbers is that their characteristics can only be optimally adapted to one loading condition (usually fully laden). PDC detects the actual loading condition via the air suspension and adapts itself smoothly. This improves driving safety at the same time as reducing the strain on the chassis and the vehicle, in particular when the trailer is empty or only partly laden.

PDC is virtually essential in high-value vehicles and when carrying sensitive cargoes. Vehicle maintenance costs are reduced.

The cargo and the carriageway are also subjected to fewer shock loads.

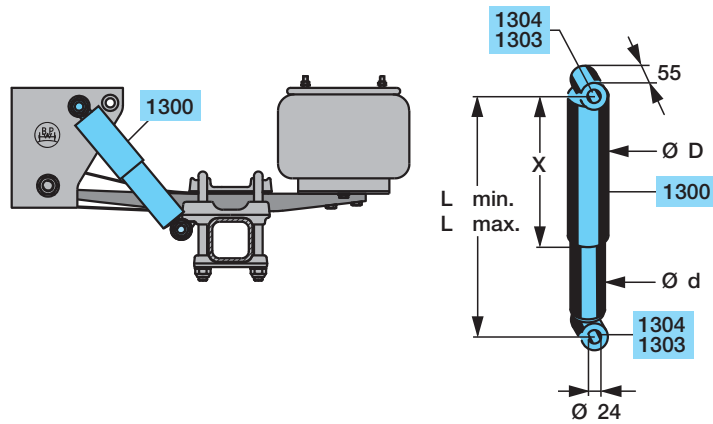
PDC is connected to the BPW air suspension system and does not require any electronic control systems.



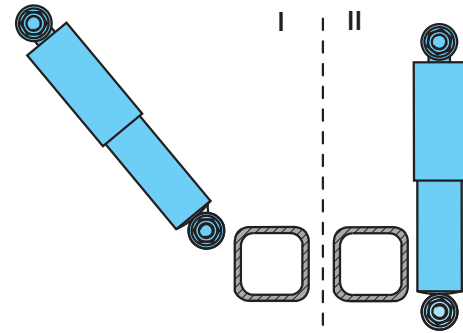
When using PDC shock absorbers, a shim must be installed between the support or spring seats and each PDC, also shorter lock nuts must be used.

8.1 Shock absorbers

Shock absorbers



Mounting position



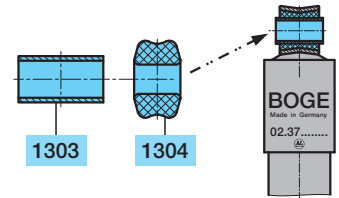
Mounting position	Shock absorber with steel and rubber bushes Ø 24 / 30	Shock absorber with steel and rubber bushes Ø 24 / 32	Dimensions					N = Newton at 13 cm/s	N = Newton at 52 cm/s	Remark
			BPW Code no.	BPW Code no.	L min.	L max.	X	D	d	
Standard shock absorber (Item 1300)										
I	02.3722.79.00	02.3722.79.02	287	412	204	75	65	6300 / 1740	17000 / 3000	
I	02.3702.70.00 ¹⁾	-	292	432	214	82	72	6300 / 1600	17000 / 3000	repl. by 02.3722.89.02
I	02.3722.89.00	02.3722.89.02	292	432	204	75	65	13300 / 2930	15250 / 5010	
I	02.3702.52.00	-	326	496	225	82	72	6300 / 1740	17000 / 3000	repl. by 02.3722.88.02
I	02.3722.14.00	-	326	496	235	82	72	10500 / 2500	22500 / 4500	repl. by 02.3722.83.02
I	02.3722.04.00	02.3722.04.02	326	496	235	82	72	6300 / 1740	17000 / 3000	
I	02.3722.83.00	02.3722.83.02	326	496	235	75	65	13280 / 2930	15250 / 5010	
I	02.3702.92.00	-	351	541	250	82	72	8000 / 2500	18000 / 5000	repl. by 02.3722.88.02
I	02.3722.88.00	02.3722.88.02	351	541	250	75	65	13300 / 2930	15250 / 5010	
I	02.3702.20.00	02.3702.20.02	426	696	325	82	72	8000 / 1290	16000 / 2150	
I II	02.3702.51.00	02.3702.51.02	430	700	320	75	66	3800 / 500	8000 / 800	
II	02.3702.67.00	02.3702.67.02	466	766	380	75	66	3750 / 540	10500 / 1000	
I II	02.3702.60.00 ²⁾	02.3702.60.02 ²⁾	475	795	390	82	72	6300 / 1600	17000 / 3000	
II	02.3702.18.00	02.3702.18.02	475	800	390	82	72	4100 / 400	9000 / 900	
II	02.3722.62.00	02.3722.62.02	536	906	440	75	66	3750 / 540	10500 / 1000	
PDC Shock absorber (Pneumatic Damping Control) (Item 1300/1301)										
I	02.3722.63.00	02.3722.63.02	336	501	210	92	80	for air bag BPW 30		
I	02.3722.93.00 L 02.3722.94.00 R	- -	300	430	180	92	80			
I	02.3722.64.00	02.3722.64.02	336	501	210	92	80	for air bag BPW 36		
Shock absorber with last digit .0 are replaced by shock absorber with last digit .2 . Observe the modified bushes (page 91).			¹⁾ Special version ²⁾ reinforced							

Spare parts for shock absorbers

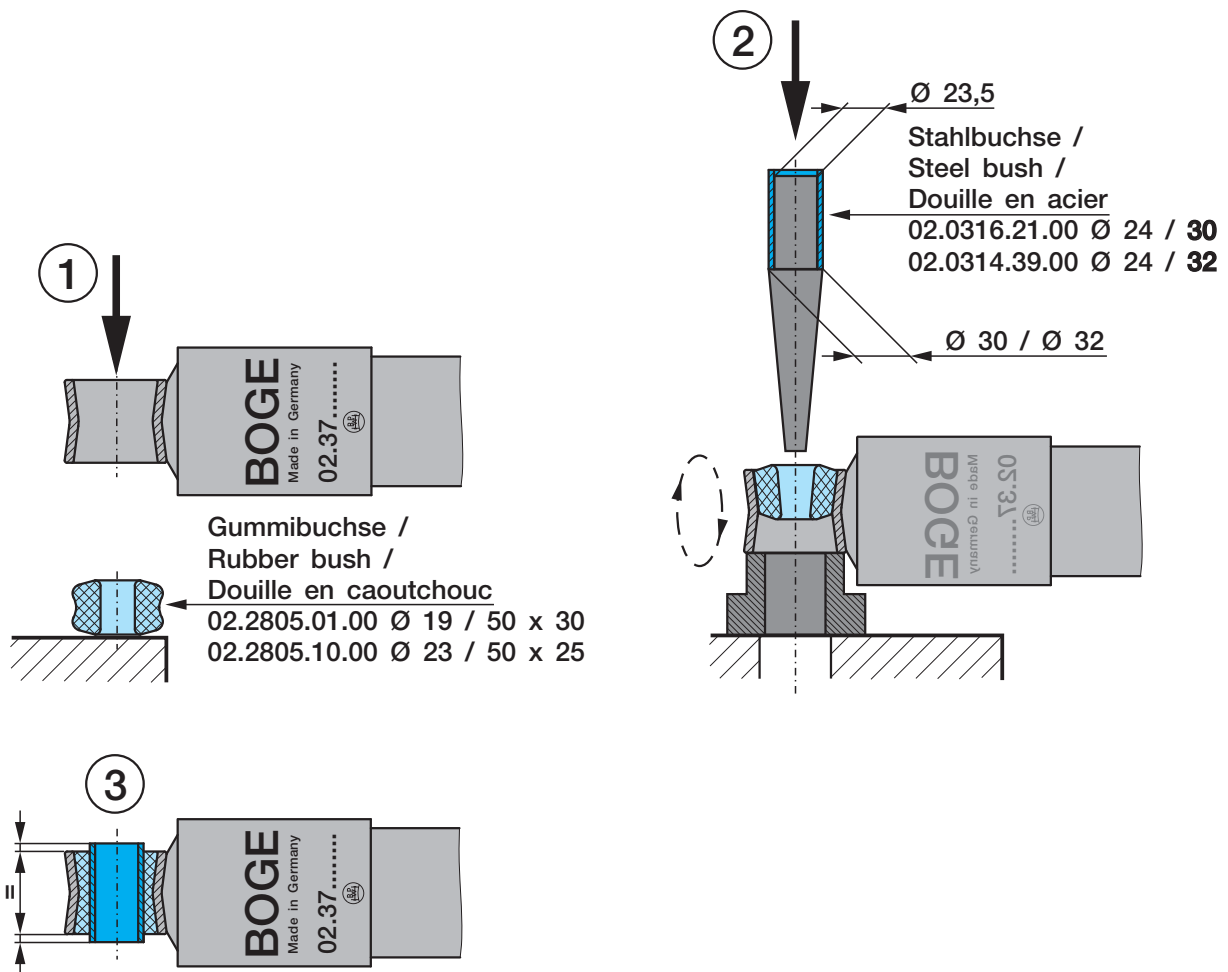
Rubber bushes only for BOGE-shock absorber

Exec.	Item	Designation	BPW Code no.	Dimensions
Shock absorber with last digit ..0	1303	Steel bush	02.0316.21.00	Ø 24 / 30 x 55
	1304	Rubber bush	02.2805.01.00	Ø 19 / 50 x 30
Shock absorber with last digit ..2	1302	Repair kit bushes Item 1303 + 1304	09.801.08.18.0	
	1303	Steel bush	02.0314.39.00	Ø 24 / 32 x 55
	1304	Rubber bush	02.2805.10.00	Ø 23 / 50 x 25

Steel and rubber bushes with Ø 24 / 30 mm are no longer available - convert to steel and rubberbushes with Ø 24 / 32 mm.



Changing the bushes

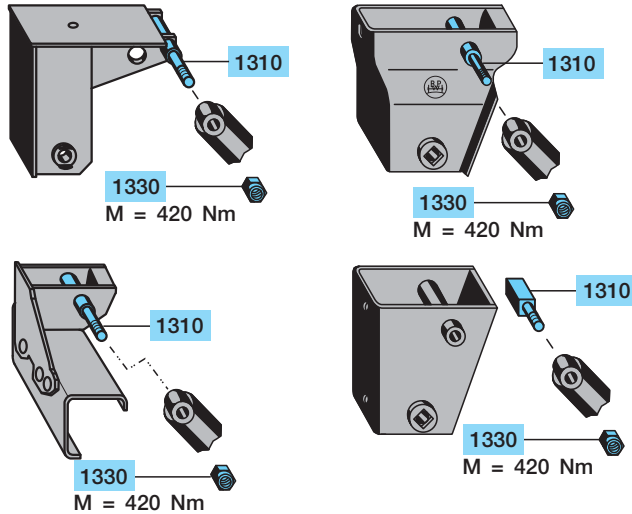


Lubricate the rubber and steel bush with a 50% soap solution prior to assembly!

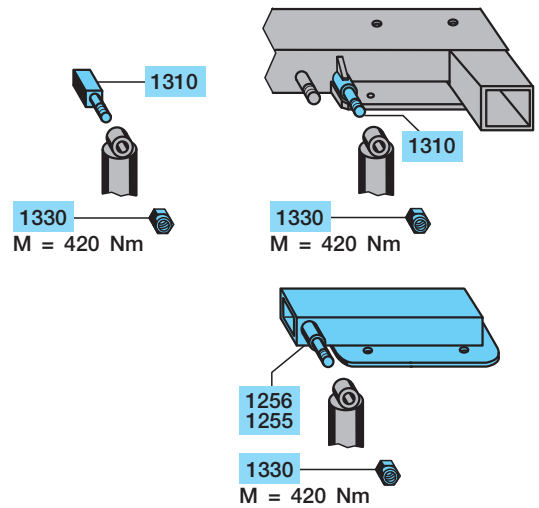
8.2 Upper shock absorber attachments

Upper shock absorber attachment with threaded bolts

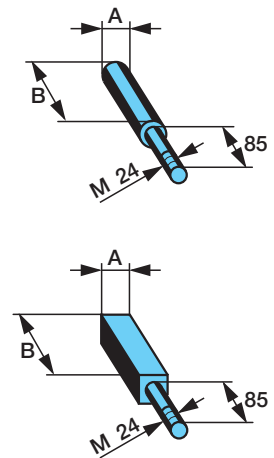
Shock absorber front



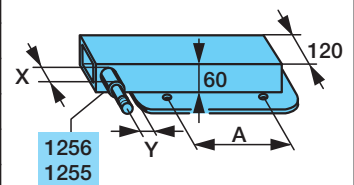
Shock absorber rear



Item	Designation	Remark	BPW Code no.	Dimensions	A	B
Shock absorber attachment on threaded bolts, steel hanger bracket / integrated support / frame						
1310	Threaded bolt (steel) (welded to hanger bracket, integrated support or frame)		03.177.24.36.0	● 36	165	
			03.177.24.30.0	● 40	140	
			03.177.24.53.0	● 40	147	
			03.177.24.29.0	● 40	165	
			03.177.24.31.0	● 40	188	
			03.177.24.37.0	■ 40	82	
			03.177.24.38.0	■ 40	115	
			03.177.24.17.0	■ 40	140	
			03.177.24.52.0	■ 40	167	
	03.177.24.49.0	■ 40	207			
Shock absorber attachment on threaded bolts, stainless steel hanger bracket						
1310	Threaded bolt (stainless steel) (welded to hanger bracket)		03.177.24.64.0	● 40	130	
			03.177.24.61.0	● 40	145	
			03.177.24.65.0	● 50	130	
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10			



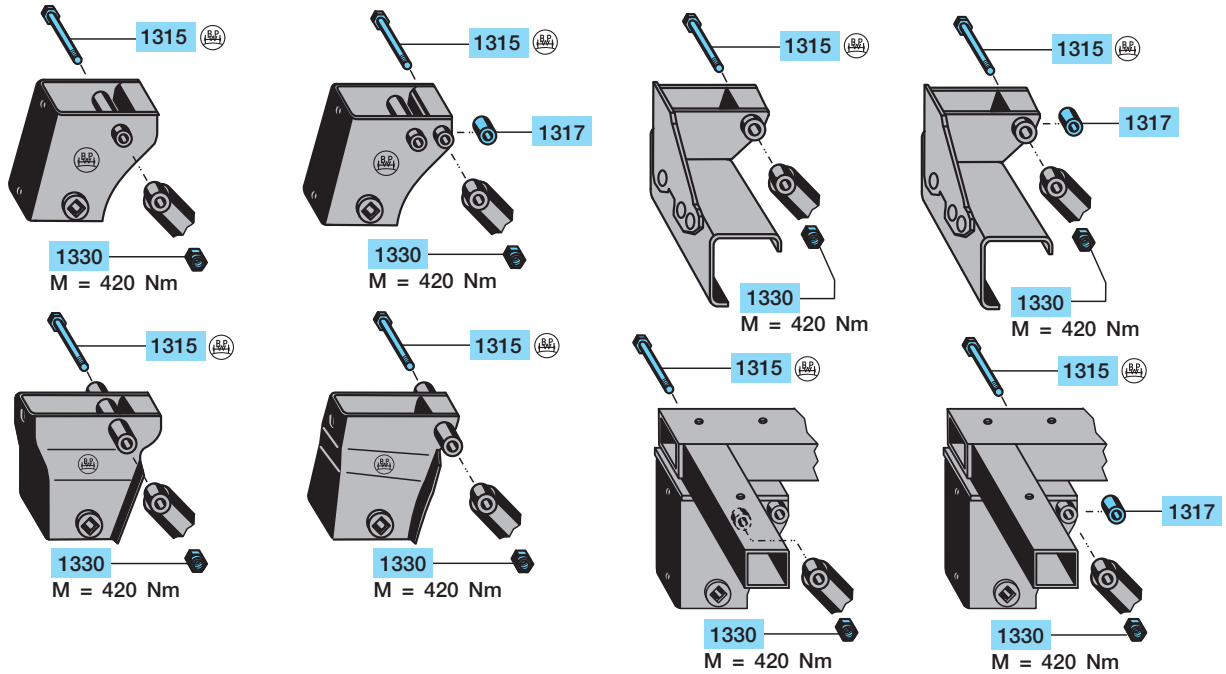
		Shock absorber attachment on threaded bolts, shock absorber rear, attachment to spacer for air bag				
		Item 1255 left	Item 1256 right	A	X	Y
1255	Support, left	05.189.06.35.0	05.189.06.34.0	150	57	100
1256	Support, right	05.189.06.25.0	05.189.06.26.0	210	37	45
		05.189.12.55.0	05.189.12.56.0	210	37	45
		05.189.07.97.0	05.189.07.96.0	210	37	70
		05.189.05.55.0	05.189.05.54.0	290	12	-
1330	Lock nut	02.5220.74.12 * VM 24 / 980-10				



* With PDC-shock absorber use lock nut 02.5220.76.12 + washer 02.5401.25.07

Upper shock absorber attachment with screws

Shock absorbers next to hanger bracket
Steel hanger bracket / integrated support / frame



Item	Designation	Remark	BPW Code no.	Dimensions
			Shock absorbers next to hanger bracket, steel hanger bracket	
1315	Hexagon screw	L = 144 L = 155 L = 187	02.5023.41.82 03.340.14.19.0 03.340.14.12.0	M 24 x 230 M 24 x 240 M 24 x 275
1317	Sleeve Bush	e.g.	03.200.75.62.0 03.112.03.06.0	∅ 25 / 40 x 55 ¹⁾ ∅ 25 / 40 x 67 ²⁾
1330	Lock nut		02.5220.74.12 *	VM 24 / 980-10

1) inside dimension of the hanger bracket = 55 mm
2) inside dimension of the hanger bracket = 67 mm

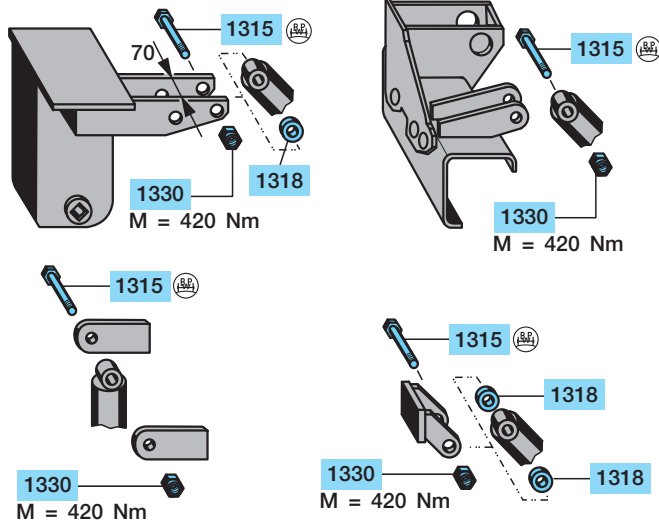
			Shock absorber above the trailing arm, shock absorber at hanger bracket centre	
1315	Hexagon screw	L = 72 L = 80 L = 110 L = 125 L = 125 L = 157 L = 177 L = 187	03.340.14.15.0 03.340.14.16.0 03.340.14.24.0 03.340.14.22.0 02.5023.39.82 02.5023.35.82 02.5023.36.82 03.340.14.23.0	M 24 x 100 M 24 x 110 M 24 x 140 M 24 x 160 M 24 x 160 M 24 x 200 M 24 x 220 M 24 x 230
1318	Ring (2x)	B = 67 B = 90	03.310.30.60.0 03.310.31.38.0	∅ 25 / 50 x 6 ∅ 25 / 42 x 17.5
1330	Lock nut		02.5220.74.12 *	VM 24 / 980-10

* With PDC-shock absorber use lock nut 02.5220.76.12 + washer 02.5401.25.07

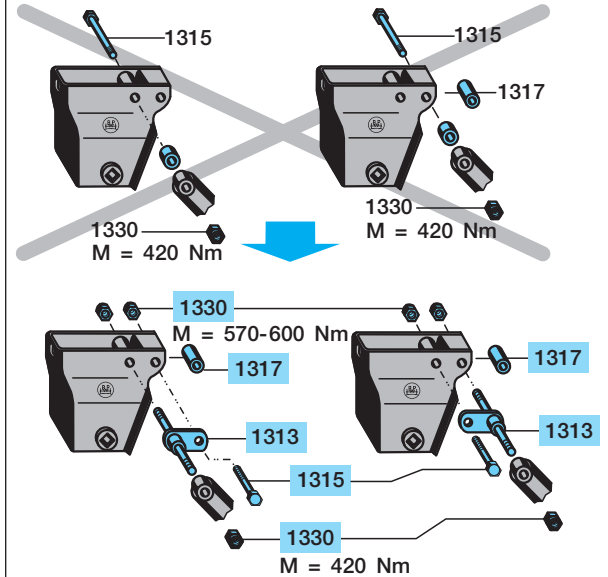
8.2 Upper shock absorber attachments

Upper shock absorber attachment with screws

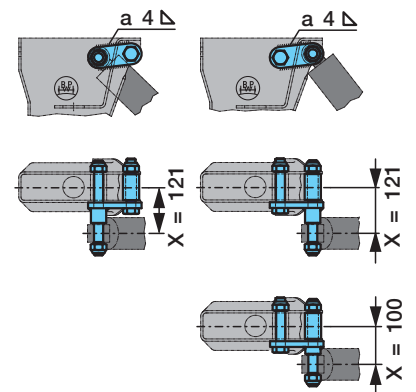
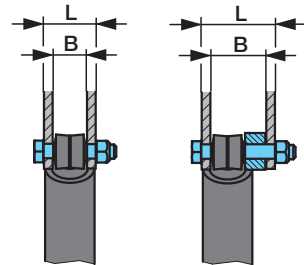
Shock absorber attachment between plates, steel hanger bracket / integrated support / frame



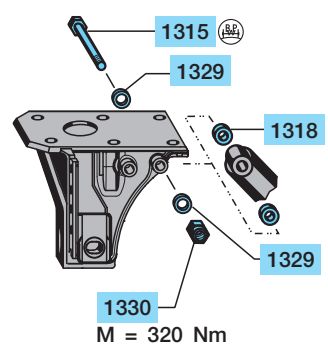
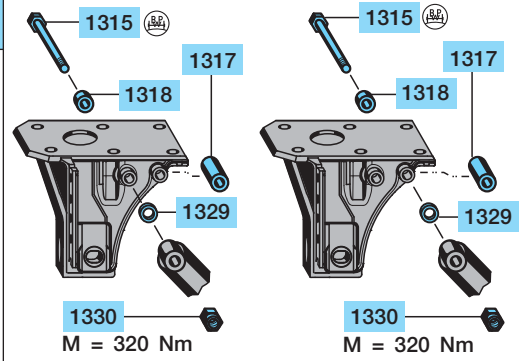
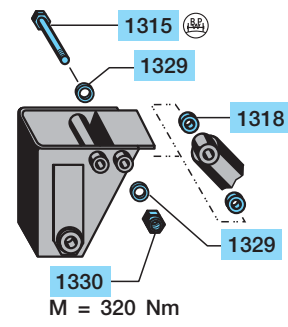
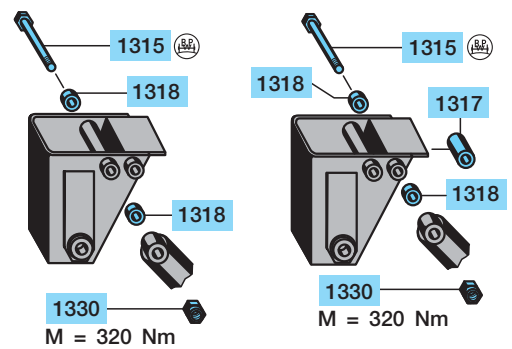
Repair solution for shock absorber attachment with retracted supports



Item	Designation	Remark	BPW Code no.	Dimensions	B	L
			Shock absorber attachment between plates, steel hanger bracket / integrated support / frame			
1315	Hexagon screw		03.340.14.15.0	M 24 x 100	55	75
			02.5023.29.80	M 24 x 120	70	90
			02.5023.47.82	M 24 x 130	76	96
1318	Ring (1x)		03.310.31.21.0	Ø 25 / 42 x 15	70	90
	Ring (2x)		03.310.31.40.0	Ø 25 / 42 x 10	76	96
1330	Lock nut		02.5220.74.12	VM 24 / 980-10		
			Repair solution for shock absorber attachment with retracted supports			
1312	Repair kit (Item 1313, 1315, 1317, 1330)		05.801.64.28.0	X = 100		
			05.801.64.25.0	X = 121		
1313	Support		05.189.13.27.0	X = 100		
			05.189.13.22.0	X = 121		
1315	Screw		02.5023.49.80	M 24 x 140 / 931-8.8		
1317	Bush		03.112.03.06.0	Ø 25 / 40 x 67		
1330	Lock nut		02.5220.74.12	VM 24 / 980-10		



Upper shock absorber attachment with screws			
Item	Designation	Remark	BPW Code no. Dimensions
			Shock absorbers next to hanger bracket, alloy hanger bracket
1315	Hexagon screw		02.5023.45.82 M 24 x 270-8.8
			03.340.14.12.0 M 24 x 275-8.8
1317	Sleeve		03.200.75.62.0 Ø 25 / 40 x 55 ¹⁾
	Bush		03.112.03.06.0 Ø 25 / 40 x 67 ²⁾
1318	Ring (2x)		03.310.31.21.0 Ø 25 / 42 x 15
1330	Lock nut		02.5220.74.12 VM 24 / 980-10
		1) inside dimension of the hanger bracket = 55 mm	
		2) inside dimension of the hanger bracket = 67 mm	
			Shock absorbers next to hanger bracket, alloy hanger bracket
1315	Hexagon screw		03.340.14.21.0 M 24 x 200
			02.5023.35.82 M 24 x 200
1318	Ring (2x)		03.310.30.60.0 Ø 25 / 50 x 6
1329	Washer (2x)		02.5401.25.07 Ø 25 / 125
1330	Lock nut		02.5220.74.12 VM 24 / 980-10
			Shock absorbers next to hanger bracket, cast alloy hanger bracket
1315	Hexagon screw		03.340.14.19.0 M 24 x 240-8.8
			03.340.14.12.0 M 24 x 275-8.8
1317	Bush		03.112.03.06.0 Ø 25 / 40 x 67 ²⁾
1318	Ring		03.310.31.21.0 Ø 25 / 42 x 15
1329	Washer		02.5401.25.07 Ø 25 / 125
	Ring	e.g.	03.310.30.60.0 Ø 25 / 50 x 6
	Ring		03.310.31.40.0 Ø 25 / 42 x 10
1330	Lock nut		02.5220.74.12 VM 24 / 980-10
			02.5220.76.12 VM 24 / 980-10 short
			Shock absorber above the trailing arm, shock absorber at hanger bracket centre, cast alloy hanger bracket
1315	Hexagon screw		03.340.14.21.0 M 24 x 200
1318	Ring		03.310.30.60.0 Ø 25 / 50 x 6
1329	Washer		02.5401.25.07 Ø 25 / 125
1330	Lock nut		02.5220.74.12 VM 24 / 980-10



8.3 Lower shock absorber attachments

Lower shock absorber attachment

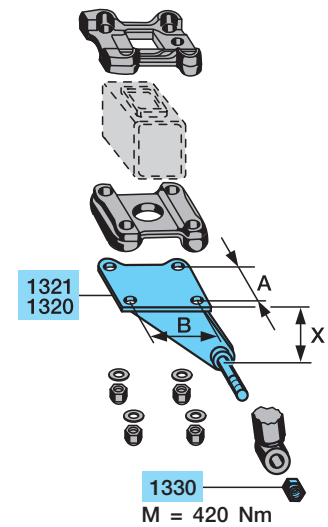
Item	Designation	Remark	BPW Code no.	Dimensions	
			O / SL / AL attachment to spring seats with threaded bolt, shock absorber front		
1026	Spring seat, right		see page 25 - 31		
1027	Spring seat, left		see page 25 - 31		
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10		
			OM Shock absorber front, shock absorber attachment to adjustable support		
1320	Support		05.189.04.71.0		
1324	Hexagon screw		03.340.14.15.0	M 24 x 100	
1325	Hexagon screw		02.5026.33.80	M 16 x 35 / 933	
1326	Hexagon nut		02.5205.07.04	M 16 / 936	
1327	Sleeve		03.200.74.44.0	Ø 25 / 42 x 22	
1330	Lock nut		02.5220.74.12 VM 24 / 980-10		

			OM / SLM Shock absorber rear		
1224	Locking screw		see page 105		
			Item 1320 right	Item 1321 left	X
1320	Support, right		05.189.05.65.0	05.189.05.64.0	100
	Support, left		05.189.05.66.0	05.189.05.67.0	150
			05.189.05.92.0	05.189.05.91.0	160
1322	Spring U-bolt		03.138.29.02.0		
1323	Lock nut		02.5220.31.12	VM 16 x 1.5 / 980-10	
1330	Lock nut		02.5220.74.12	VM 24 / 980-10	

* With PDC-shock absorber use lock nut 02.5220.76.12 + washer 02.5401.25.07

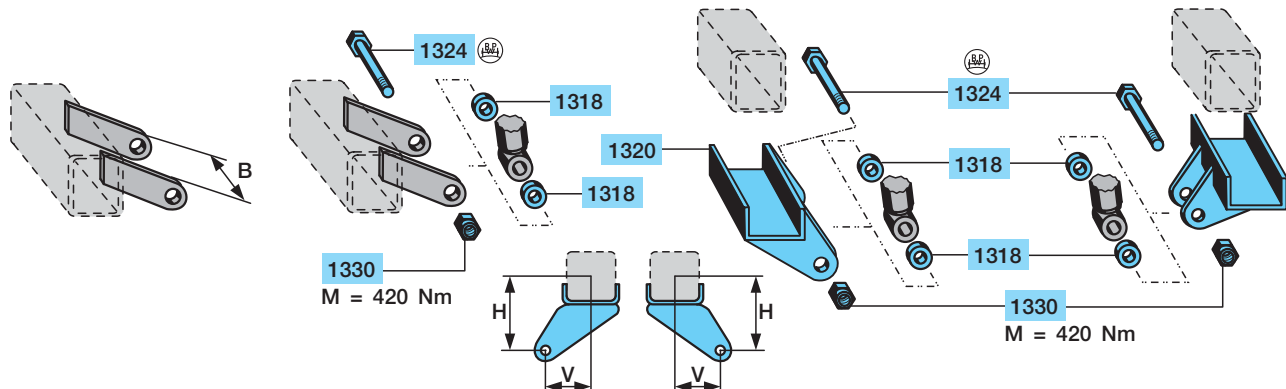
Lower shock absorber attachment

Item	Designation	Remark	BPW Code no. Dimensions				
			OM / SLM / ALM				
			Shock absorber rear, attachment to support with threaded bolt				
			Item 1320 right	Item 1321 left	X	A	B
1320	Support, right		05.189.13.16.0	05.189.13.15.0	44.5	125	150
1321	Support, left		05.189.13.18.0	05.189.13.17.0	44.5	125	180
			05.189.13.30.0	05.189.13.29.0	92	125	180
			05.189.13.20.0	05.189.13.21.0	126	125	150
1330	Lock nut	02.5220.74.12 * VM 24 / 980-10					



* With PDC-shock absorber use lock nut 02.5220.76.12 + washer 02.5401.25.07

Lower shock absorber attachment between plates



Item	Designation	BPW Code no.					Dimensions
		B = 56	B = 75	B = 86	B = 90	B = 100	
1311	Repair kit cpl. (Item 1318 - 1330)	-	-	-	-	-	○ 127
		-	-	-	09.829.00.02.0	-	□ 120
		-	-	-	-	-	□ 150
1318	Ring	-	03.310.31.40.0	-	-	-	Ø 25/42x10
		-	-	03.310.31.21.0	-	-	Ø 25/42x15
		-	-	-	03.310.31.38.0	-	Ø 25/42x17.5
1318	Sleeve	-	-	-	-	03.200.74.44.0	Ø 25/42x22
		-	-	-	-	-	
		-	-	-	-	-	
1320	Support	-	-	05.189.06.85.0	-	-	○ 127
		-	-	-	05.189.07.15.0	-	□ / ■ 120
		-	-	-	05.189.10.51.0	-	■ 120
		-	-	-	05.189.10.92.0	-	■ 120
		-	-	-	05.189.10.44.0	-	■ 120
		-	-	-	05.189.07.16.0	-	□ / ■ 150
1324	Hexagon screw	02.5023.46.80	-	-	-	-	M 24 x 110
		-	02.5023.49.80	-	-	-	M 24 x 130
		-	03.340.14.24.0	03.340.14.24.0	02.5023.49.80	-	M 24 x 140
		-	-	-	-	02.5023.91.80	M 24 x 150
1330	Lock nut	02.5220.74.12 VM 24 / 980-10					

8.3 Lower shock absorber attachments

Lower shock absorber attachment

Item	Designation	Remark	BPW Code no.	Dimensions	
			O / SL / AL Attachment to spring plate above the trailing arm, spring U-bolts mounted from above		
1035	Spring plate		see page 41		
1324	Hexagon screw		03.340.14.15.0	M 24 x 100-8.8	
1330	Lock nut		02.5220.74.12	VM 24 / 980-10	
			O / SL / AL Attachment to spring plate above the trailing arm, spring U-bolts mounted from below		
1032	Spring plate		see page 43 / 45		
1324	Hexagon screw		03.340.14.15.0	M 24 x 100-8.8	
1330	Lock nut		02.5220.74.12	VM 24 / 980-10	
			DLU Attachment to spring seat above the trailing arm with screw, spring U-bolts mounted from above		
1026	Spring seat		see page 29		
1324	Hexagon screw		03.340.14.15.0	M 24 x 100-8.8	
1330	Lock nut		02.5220.74.12	VM 24 / 980-10	
			O / SL / AL Attachment to spring plate with threaded bolt welded on, spring U-bolts mounted from above		
1035	Spring plate, right Spring plate, left		see page 41 see page 41		
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10		

* With PDC-shock absorber use lock nut 02.5220.76.12 + washer 02.5401.25.07

Lower shock absorber attachment			
Item	Designation	Remark	BPW Code no. Dimensions
			O / SL / AL Attachment to spring plate with threaded bolt welded on, spring U-bolts mounted from below
1032	Spring plate		see page 43
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10
			OT / SLU / ALU Attachment to spring plate with threaded bolt, spring U-bolts mounted from above
1032	Spring plate, right		see page 47
1033	Spring plate, left		see page 47
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10
			OT / SLU / ALU Attachment to spring plate with screw, spring U-bolts mounted from above
1032	Spring plate		see page 47
1315	Hexagon screw		02.5023.41.82 M 24 x 230-8.8 02.5023.49.80 M 24 x 140-8.8
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10
<p>* With PDC-shock absorber use lock nut 02.5220.76.12 + washer 02.5401.25.07</p>			

8.3 Lower shock absorber attachments

Lower shock absorber attachment

Item	Designation	Remark	BPW Code no. Dimensions	
<p>OT / SLU / ALU Attachment to spring plate with threaded bolt welded on, spring U-bolts mounted from below</p>				
1035	Spring plate, left		see page 41	
1036	Spring plate, right		see page 41	
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10	M = 420 Nm
<p>OT / SLU / ALU Attachment to spring plate with screw, spring U-bolts mounted from below</p>				
1035	Spring plate, left		see page 41	
1036	Spring plate, right		see page 41	
1315	Hexagon screw		02.5023.42.80 M 24 x 240	
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10	M = 420 Nm
<p>OT / SLU / ALU Attachment to spring plate with threaded bolt screwed on, spring U-bolts mounted from below, shock absorber front</p>				
1035	Spring plate		see page 41	
1168	Lock nut		03.260.15.01.0 M 30	
1324	Threaded bolt		03.177.24.22.0 M 24 / M 30 / L = 260	M 30
1327	Sleeve *		03.200.73.53.0 Ø 32 / 38 x 68	M 24
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10	M = 420 Nm
		* not applicable with U-stabilizer		

* With PDC-shock absorber use lock nut 02.5220.76.12 + washer 02.5401.25.07

Lower shock absorber attachment			
Item	Designation	Remark	BPW Code no. Dimensions
			OT / SLU / ALU Attachment to spring plate with threaded bolt screwed on, spring U-bolts mounted from below, shock absorber rear
1035	Spring plate		see page 41
1168	Lock nut		03.260.15.01.0 M 30
1324	Threaded bolt		03.177.24.39.0 M 24 / M 30 / L = 290
1327	Sleeve		03.200.73.53.0 Ø 32 / 38 x 68
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10
			SL / AL Attachment to spring plate with screw, spring U-bolts mounted from below
1035	Spring plate		see page 45
1315	Hexagon screw	B 187 B 144	03.340.14.12.0 M 24 x 275-8.8 02.5023.42.82 M 24 x 240-8.8
1330	Lock nut		02.5220.74.12 * VM 24 / 980-10

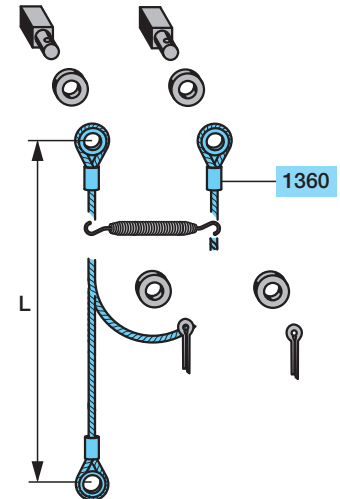
* With PDC-shock absorber use lock nut 02.5220.76.12 + washer 02.5401.25.07

O
SL
AL

9 Check straps

Check straps

Item	Designation	BPW Code no.		Dimensions
		Check straps, standard	Check straps, PVC coated	L
1360	Check strap	05.327.14.15.0	-	730
		05.327.14.13.0	-	865
		05.327.14.04.0	05.327.14.37.0	940
		05.327.14.05.0	05.327.14.30.0	1010
		05.327.14.06.0	05.327.14.31.0	1060
		05.327.14.03.0	05.327.14.25.0	1120
		05.327.14.02.0	05.327.14.24.0	1160
		05.327.14.01.0	05.327.14.23.0	1220
		05.327.14.09.0	05.327.14.26.0	1270
		05.327.14.08.0	05.327.14.29.0	1330
		05.327.14.19.0	05.327.14.32.0	1350
		05.327.14.14.0	05.327.14.28.0	1390
		05.327.14.10.0	05.327.14.35.0	1415
		05.327.14.07.0	05.327.14.27.0	1455
		05.327.14.11.0	05.327.14.36.0	1500
		05.327.14.12.0	-	1550
		05.327.14.18.0	05.327.14.33.0	1570
		05.327.14.20.0	05.327.14.34.0	1685
05.327.14.21.0	-	1775		



Check strap attachments 9.1

Check strap attachment with hexagon nuts					
		O / SL / AL		OR / SLR / ALR (with frame)	
Item	Designation	Remark	BPW Code no.	Dimensions	BPW Code no. Dimensions
1362	Threaded bolt		03.177.25.05.0	M 30 / □ 40 x 70	-
			03.177.25.06.0	M 30 / □ 40 x 110	-
1363	Screw	SC 900 - 980 SC 1100 - 1300	-		03.340.75.21.0 M 30 x 210 03.340.75.22.0 M 30 x 165
1365	Sleeve	SC 900 - 980	-		03.200.74.38.0 Ø 34 / 54 x 48
1368	Shaped plate		03.161.16.01.0 *		03.161.16.01.0 *
1370	Hexagon nut		02.5205.17.04	M 30 / 936-04	02.5205.17.04 M 30 / 936-04
1375	Return spring ¹⁾		05.397.26.03.0	Ø 26 / 2.6 x 148	05.397.26.03.0 Ø 26 / 2.6 x 148
* no longer available					

Check strap attachment with split pins					
		O / SL / AL		OR / SLR / ALR (with frame)	
Item	Designation	Remark	BPW Code no.	Dimensions	BPW Code no. Dimensions
1362	Bolt		03.084.47.11.0	Ø 30 / □ 40 x 70	-
1363	Screw	SC 900 - 980 SC 1100 - 1300	-		03.084.76.37.0 M 30 x 218 03.084.76.36.0 M 30 x 170
1365	Sleeve	SC 900 - 980	-		03.200.74.38.0 Ø 34 / 54 x 48
1368	Washer		02.5401.31.01	31 / 125	02.5401.31.01 31 / 125
1371	Split pin		02.6201.61.01	6.3 x 45 / 94	02.6201.61.01 6.3 x 45 / 94
1375	Return spring ¹⁾		05.397.26.03.0	Ø 26 / 2.6 x 148	05.397.26.03.0 Ø 26 / 2.6 x 148
¹⁾ not applicable if check strap length < 1120 mm					

10 Hanger brackets / integrated supports

General

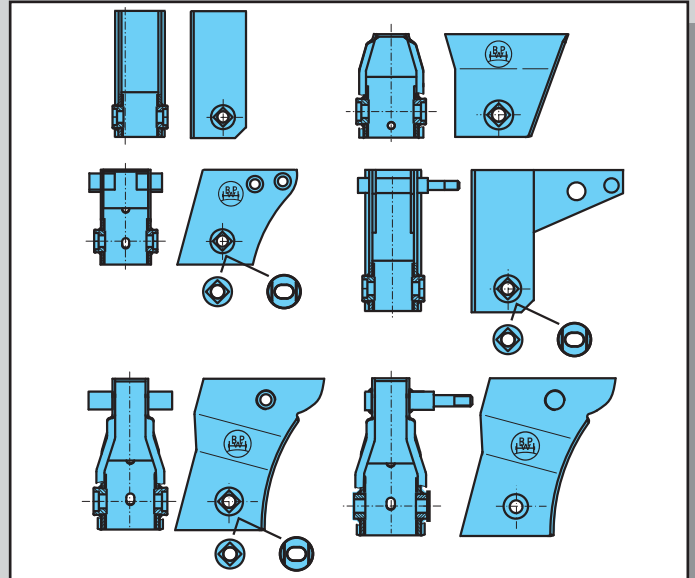
BPW Air suspension hanger brackets

Air suspension hanger brackets transfer all control, braking and acceleration forces from the axle to the vehicle frame.

Short, adjustable BPW air suspension hanger brackets with integrated shock absorber mounts make installation easier, reduce weight and cut the flexural load on the vehicle's frame. The vehicle manufacturer benefits from straightforward crossbracing options at the interface between the frame and the hanger bracket.

BPW air suspension hanger brackets are available in steel as well as in high-grade steel and aluminium if required (only Airlight II).

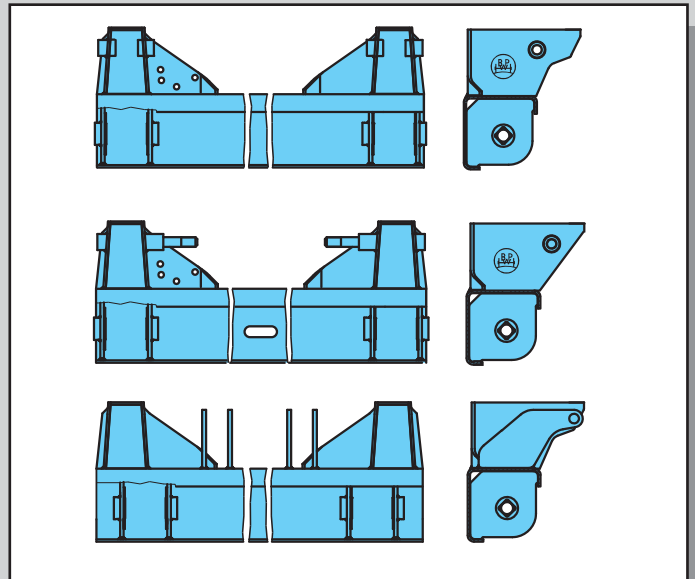
Complete frames are no longer available.



BPW Integrated support

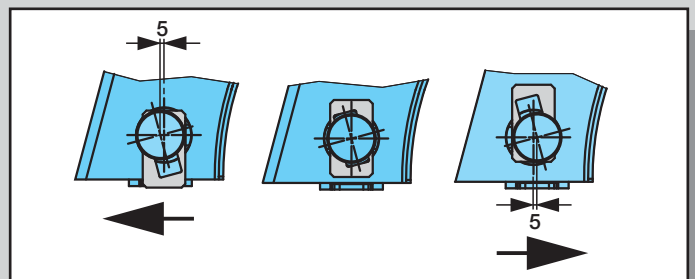
Vehicle manufacturers all over the world quickly appreciate the assembly benefits of this module. Whether it's the hanger brackets, the shock absorber attachments or the cross-braces, everything is integrated to save space. Even steering axles can be connected to it without additional preparation.

The channel crossmember is available in two versions – with an open, narrow hanger bracket for welding or with a cover plate for bolting/riveting onto the vehicle frame. The channel crossmember can even make additional crossmembers unnecessary, depending on the frame design.



Track alignment

Rapid axle alignment is possible using BPW hanger brackets with integrated track adjustment. Production tolerances on the vehicle can be counteracted or tracking corrected without the need to unfasten the U-bolts (axle tracking).



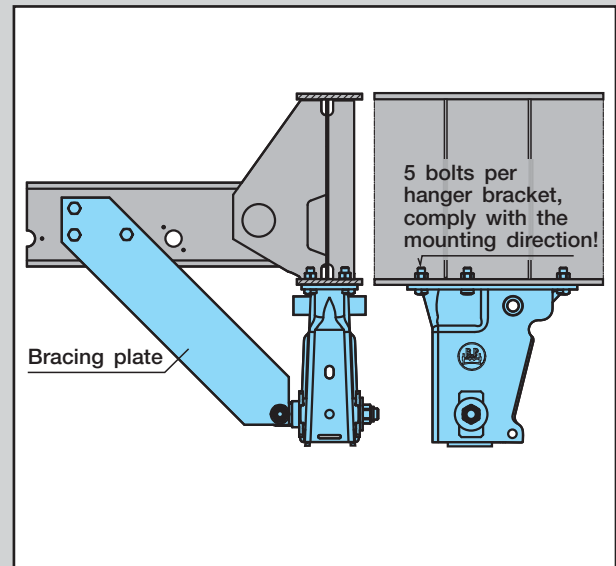
General

Greater flexibility for vehicle manufacturers - the bolted Airlight II air suspension hanger bracket from BPW

With the new, innovative bolted Airlight II air suspension hanger bracket, BPW is offering the opportunity of prefabricating compact vehicle frames without air suspension hanger brackets, coating them but not attaching the axle and suspension unit until the final assembly stage.

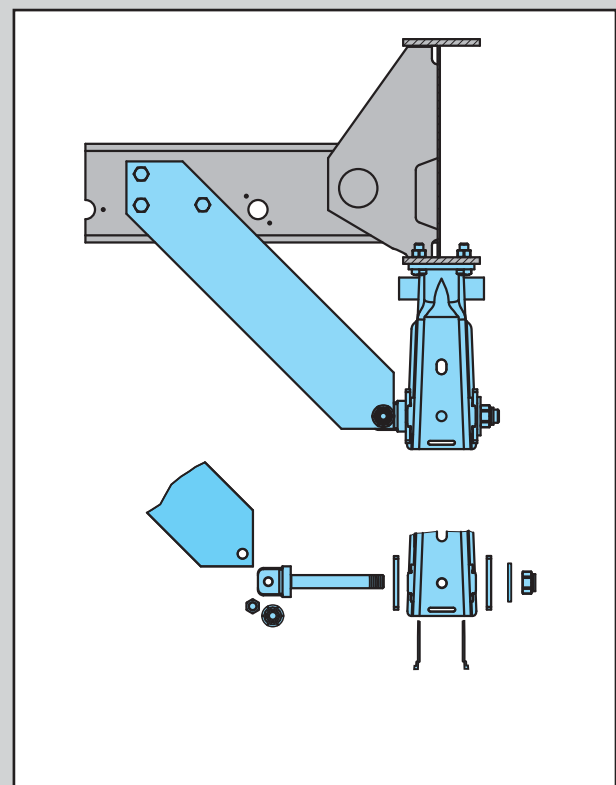
By expanding the Airlight II range, BPW is offering vehicle manufacturers an attractive alternative to the conventional, fully welded chassis. This is because the bolted system offers clear logistical and cost advantages, in particular for off-site frame production and surface coating. Production is made more flexible.

The air suspension hanger brackets will be available from week 36/2007 onwards. Like all other Airlight II air suspension hanger brackets and channel cross members, they have been designed for use with M 24 trailing arm spring bolts from the start of series production (see also BPW News Luft 7121702e).



Customer advantages:

- Installation of the entire chassis (incl. bracket struts) by cold-joining technology
- Significant cost and logistical advantages with off-site frame production and surface coating (it is easier to transport the vehicle frame without hanger brackets)
- Expansion of production flexibility
- For mounting on standard frames with bottom flange width as little as 120 mm
- No changes to the frame required, except for the hole pattern
- Suitable for aluminium frame
- Improved repair capability



10 Hanger brackets / integrated supports

General

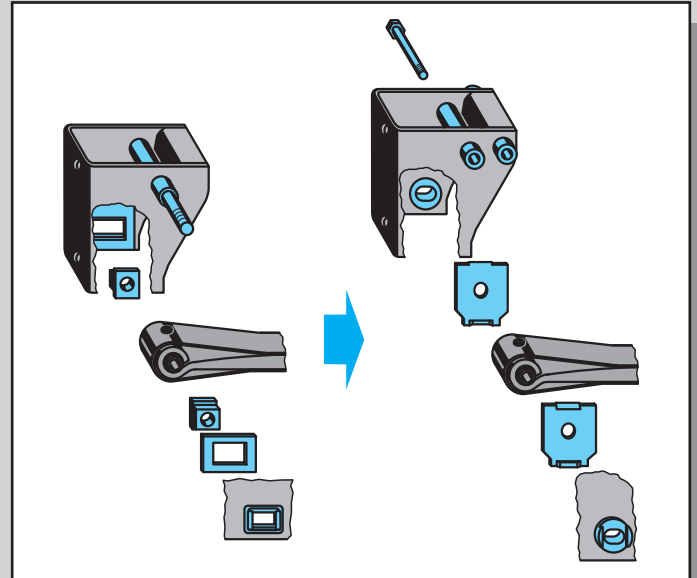
Shock absorber attachment

Hanger bracket with welded bolt for shock absorber attachment (100 mm wide trailing arm) replaced by hanger brackets with hexagon bolt and nut.

Adjustable hanger brackets

Adjustable hanger brackets and channel crossmembers with weld-in square frame for spring bolt mounting have been replaced by hanger brackets and channel crossmembers with weld-in slot bush.

If replacement is required, change over to this new version.

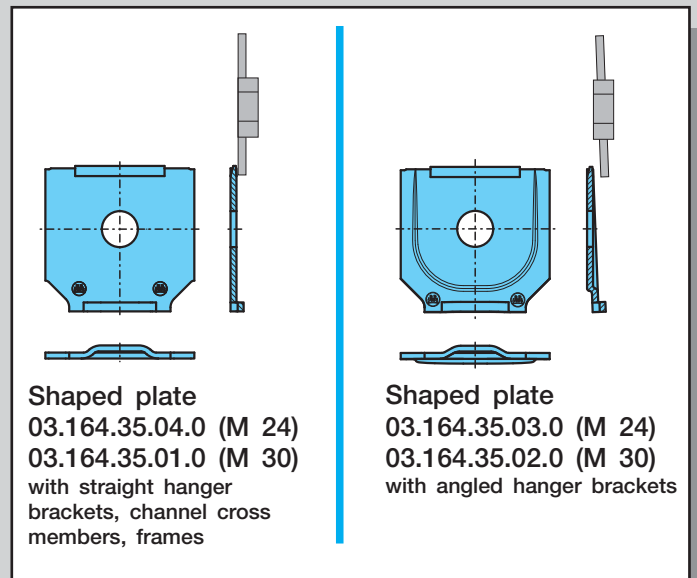


From week **18/2004** onwards, the functional principle of the loose wear plates (registered utility model DE-GM 201 04 753 U1) familiar in Airlight II brackets will also be carried across to the rigid air suspension hanger brackets for 100 mm wide trailing arms.

Wearing plates

BPW uses two different versions of wearing plates.

1. A straight shaped plate for straight hanger brackets, channel crossmembers and frames
BPW code no.: 03.164.35.04.0 - M 24
03.164.35.01.0 - M 30
2. An offset shaped plate for angled hanger brackets
BPW code no.: 03.164.35.03.0 - M 24
03.164.35.02.0 - M 30



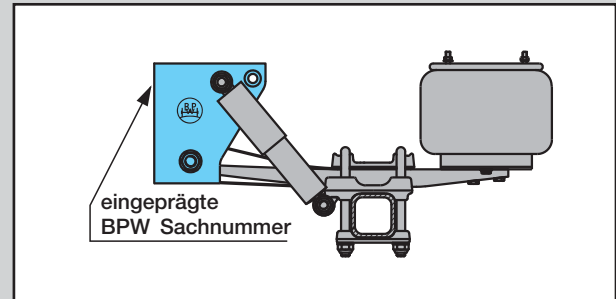
It is essential to use new spring pivot bolts when the hanger bracket / integrated support is replaced!

Observe modified spring pivot bolt bearing !

Determining replacement air suspension hanger brackets

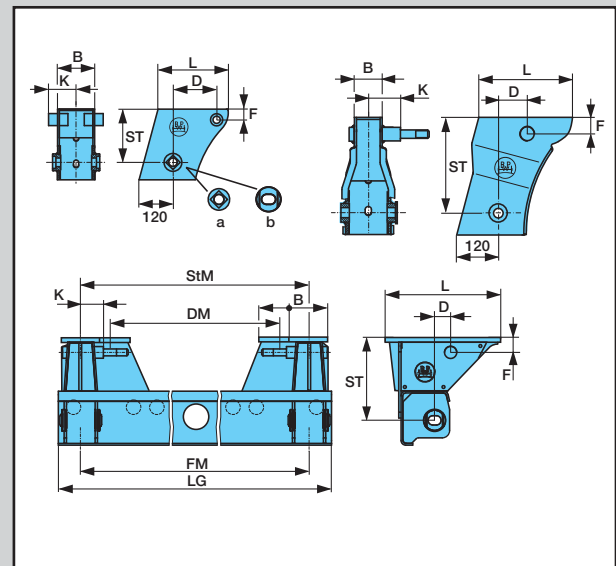
The BPW code number is embossed into the end of the hanger bracket.

If this identification is missing or no longer legible, the particular type of hanger bracket can be determined based on the shape and the dimensions.



Clarifying design

- Hanger bracket / integrated support / frame
- Steel, aluminium or stainless steel hanger bracket
- Straight box-section hanger bracket / Best-Design hanger bracket / retracted hanger bracket
- Rigid or adjustable spring pivot bolt mounting
- Spring pivot bolt \varnothing 24 mm or \varnothing 30 mm
- Trailing arm 70 or 100 mm wide
- Tall hanger bracket (ST)
- Hanger bracket with shock absorber attachment (screw / bolt)
- Position of shock absorber attachment (D / F)



Spare parts for ECO Air COMPACT air suspensions see pages 172 - 176.

10.1 Hanger brackets

Hanger brackets / trailing arms 70 mm wide (AL II)

A	B
C	D
E	F

Remark:

- Do not apply heat to the suspension hanger brackets to effect any re-working or alignment. Damaged hanger brackets should be completely replaced!
- When exchanging the hanger brackets, new spring pivot bolts and locking nuts are to be used!
- Observe the welding guidelines as per BPW installation instructions!

AL

Hanger brackets / trailing arms 70 mm wide (AL II)											
ST = 184 - 350 mm								Hanger bracket with shock absorber attachment on threaded bolt	Hanger bracket with shock absorber attachment with screw		
Dimensions								Adjustable	Adjustable		
Fig.	ST	L	B	K	D	F	FB Ø	Exec. V	Exec. V		
Adjustable steel hanger bracket, trailing arm 70 mm wide					Item 1510 / 1511 / 1513						
A	184	240	87	77.5	70	35	30		05.375.44.03.0		
			91				24	05.375.44.23.0			
			110				24	05.375.44.30.0 (HD)			
							30	05.375.44.11.0			
	268	258	80		55	35	30	05.375.44.01.0			
						24	05.375.44.21.0				
					90	35	30	05.375.44.02.0			
						24	05.375.44.22.0				
					B	-	-	150	41	30	05.375.44.05.0
									24	05.375.44.24.0	
A	259	84	-	24	05.375.44.31.0 (HD)						
A	276 (w. TP)	280	100	90	43	30	05.375.44.10.0				
					24	05.375.44.25.0					
-A	328	220	80	77.5	30	50	30	05.375.44.15.0			
						24	05.375.44.29.0				
						20	90	30	05.375.44.20.0		
	350	300	100	100	150	30	24	05.375.44.34.0			
						30	05.375.44.19.0				
						24	05.375.44.33.0				
Stainless steel hanger bracket, adjustable, trailing arm 70 mm wide											
C	184	240	87	77.5	65	40	30	05.375.44.38.0 R 05.375.44.37.0 L			
							24	05.375.44.40.0 R 05.375.44.39.0 L			
	268	258	80		83		30	05.375.44.12.0 R 05.375.44.13.0 L			
							24	05.375.44.27.0 R 05.375.44.28.0 L			
Cast alloy hanger bracket, adjustable, trailing arm 70 mm wide											
D	184	410	223	73.5	80	35	30		05.375.44.14.0		
							24	05.375.44.36.0			
	268			78.5	85/170	51/41	30		05.375.44.04.0		
							24	05.375.44.35.0			
Bolt-on, adjustable steel hanger bracket, trailing arm 70 mm wide											
E	194	365	120	77.5	90	35	24		05.375.44.43.0		
	24						05.375.44.42.0				
F	278						24		05.375.44.41.0		
Further executions upon request. (w. TP) = with top plate											

10.1 Hanger brackets

Straight steel hanger brackets / trailing arms 100 mm wide


<p>A</p>	<p>B</p>	<p>C</p>
<p>D</p>	<p>E</p>	<p>F</p>
<p>G</p>	<p>H</p>	<p>I</p>
<p>J</p>	<p>K</p>	<p>Remark:</p> <ul style="list-style-type: none"> ● Do not apply heat to the suspension hanger brackets to effect any re-working or alignment. Damaged hanger brackets should be completely replaced! ● When exchanging the hanger brackets, new spring pivot bolts and locking nuts are to be used! ● Observe the welding guidelines as per BPW installation instructions!

* New hanger bracket with loose wear plates.
(w. TP) = with top plate

Further executions upon request.

No longer available.
Change over to hanger bracket with loose wear plates resp. hanger bracket with shock absorber attachment with screw.

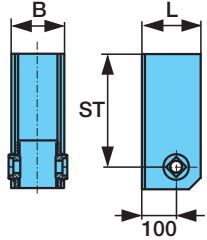
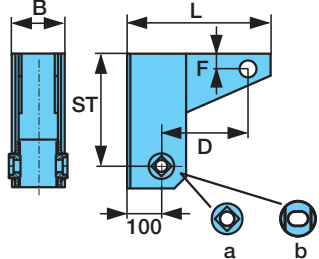
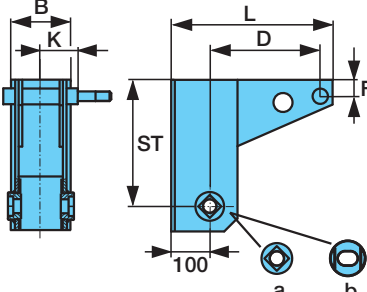
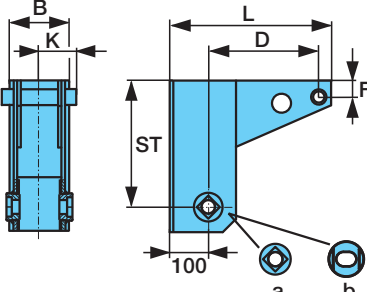
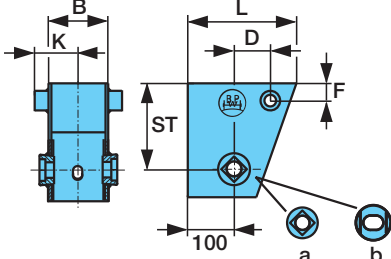
Straight steel hanger brackets / trailing arms 100 mm wide

ST = 184 - 302 mm									Hanger bracket without shock absorber attachment	Hanger bracket with shock absorber attachment on threaded bolt		Hanger bracket with shock absorber attachment with screw	
Dimensions							Rigid	Rigid	Adjustable	Rigid	Adjustable		
Fig.	ST	L	B	K	D	F	Exec. E/D	Exec. E/D	Exec. V	Exec. E/D	Exec. V		
Item 1510 / 1511 / 1513							05.375.	05.375.	05.375.	05.375.	05.375.		
Standard hanger bracket, trailing arm 100 mm wide													
G	184	243	128	93.5	80	37				40.20.0	40.55.0		
J		236	132				68.22.0	68.52.0					
G		242	128				40.29.0	40.58.0					
G	190 (w. TP)	262	160	93.5	80	43				40.24.0	40.60.0		
D	260	236	148	93.5	85	35		67.20.0 R 67.21.0 L					
A	268	160	148	-	-	-	67.88.0						
G		242	128	93.5	85	51	68.85.0 *			40.03.0	40.56.0		
K		305	132				40.65.0 *						
H		242	128				40.01.0	40.49.0					
K		305	132	85/170	51/41	68.23.0	68.51.0						
B		298	148	-	170	25	67.86.0						
G		242	128	93.5	170	41	68.84.0 *			40.05.0	40.66.0 *		
G	274 (w. TP)	262	160	93.5	85	57				40.15.0			
H					85/170	57/47	40.71.0 *	40.02.0	40.50.0				
B	276 (w. TP)	350	160	-	170	33	67.27.0						
K		330	160	93.5	85/170	59/49	68.78.0 *			68.34.0	68.92.0 *		
A	302	160	148	-	-	-	67.49.0						
J		236	132	93.5	227	25	68.81.0 *			68.29.0	68.53.0		
E		355	148				67.52.0 R	68.48.0 R					
F		390	148				67.51.0 L	68.47.0 L	68.67.0 *	68.76.0 *			
E		390	148	260	35	67.54.0 R							
F						67.53.0 L				68.68.0 *			

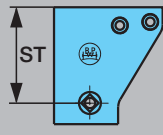
Further executions upon request.

10.1 Hanger brackets

Straight steel hanger brackets / trailing arms 100 mm wide

<p>A</p> 	<p>B</p>	<p>C</p> 
<p>D</p>	<p>E</p>	<p>F</p>
<p>G</p>	<p>H</p> 	<p>I</p> 
<p>J</p>	<p>K</p>	<p>L</p>
<p>M</p> 	<p>N</p>	<p>Remark:</p> <ul style="list-style-type: none"> ● Do not apply heat to the suspension hanger brackets to effect any re-working or alignment. Damaged hanger brackets should be completely replaced! ● When exchanging the hanger brackets, new spring pivot bolts and locking nuts are to be used! ● Observe the welding guidelines as per BPW installation instructions!

Straight steel hanger brackets / trailing arms 100 mm wide

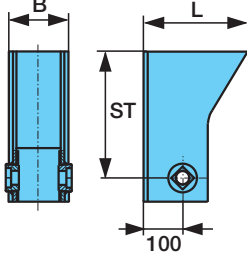
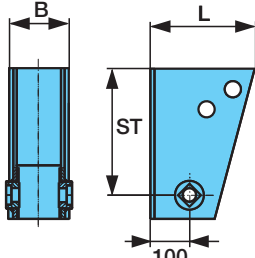
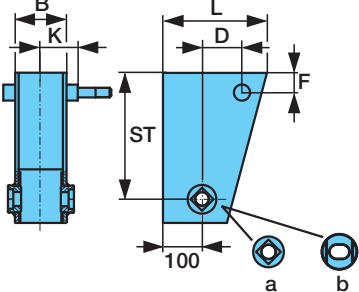
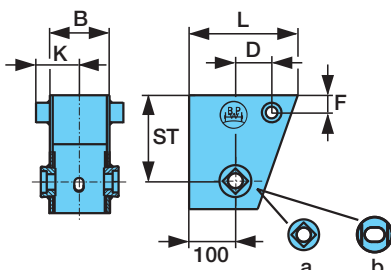
ST = 310 - 378 mm									Hanger bracket without shock absorber attachment	Hanger bracket with shock absorber attachment on threaded bolt		Hanger bracket with shock absorber attachment with screw							
Dimensions							Rigid	Rigid	Adjustable	Rigid	Adjustable								
Fig.	ST	L	B	K	D	F	Exec. E/D	Exec. E/D	Exec. V	Exec. E/D	Exec. V								
Item 1510 / 1511 / 1513							05.375.	05.375.	05.375.	05.375.	05.375.								
Standard hanger bracket, trailing arm 100 mm wide																			
A	310 (w. TP)	180	160	-	-	-	67.48.0												
M		255	160	93.5	75	43					68.35.0								
I		375		-	227	33		67.50.0											
H		350		170				67.98.0 R 67.97.0 L											
I		318		220									68.75.0 *						
~ I		375		93.5	227		260	43		67.46.0 R 67.47.0 L				68.66.0 *					
H										67.44.0 R 67.45.0 L	68.50.0 R 68.49.0 L								
I																			
~ H														68.04.0 R 68.05.0 L					
I																		68.65.0 *	68.77.0 *
A									367	160	148	-	-	-	67.93.0				
C		298		170	25			67.99.0											
										68.86.0 *									
M		370		328	132		93.5	40	100					68.36.0	68.55.0				
M	140							90				68.94.0 *	68.24.0	68.54.0					
												68.90.0 *							
C	375	408	160	-	-	-	67.59.0												
H				93.5	270	33		67.58.0 R 67.57.0 L											
I													68.70.0 *						
M	378 (w. TP)	350	160	93.5	40	108					68.37.0								
M					140	98				68.95.0 *	68.39.0								
											68.96.0 *								

* New hanger bracket with loose wear plates. Further executions upon request.
 (w. TP) = with top plate

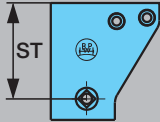
No longer available.
 Change over to hanger bracket with loose wear plates resp. hanger bracket with shock absorber attachment with screw.

10.1 Hanger brackets

Straight steel hanger brackets / trailing arms 100 mm wide

A	B	C
		
		
		
		<p>Remark:</p> <ul style="list-style-type: none"> ● Do not apply heat to the suspension hanger brackets to effect any re-working or alignment. Damaged hanger brackets should be completely replaced! ● When exchanging the hanger brackets, new spring pivot bolts and locking nuts are to be used! ● Observe the welding guidelines as per BPW installation instructions!

Straight steel hanger brackets / trailing arms 100 mm wide

ST = 400 - 430 mm									Hanger bracket without shock absorber attachment		Hanger bracket with shock absorber attachment on threaded bolt		Hanger bracket with shock absorber attachment with screw	
Dimensions									Rigid	Adjustable	Rigid	Adjustable	Rigid	Adjustable
Fig.	ST	L	B	K	D	F	Exec. E/D	Exec. V	Exec. E/D	Exec. V	Exec. E/D	Exec. V		
Item 1510 / 1511 / 1513							05.375.	05.375.	05.375.	05.375.	05.375.	05.375.		
Standard hanger bracket, trailing arm 100 mm wide														
D	400	328	148	-	-	-	67.76.0							
B		308					67.43.0							
G		328	148	93.5	40	130			67.70.0 R 67.69.0 L					
M										68.72.0 *				
G					130	50			67.78.0 R 67.77.0 L					
M									68.73.0 *					
D	408 (w. TP)	350	160	93.5	40	138	67.75.0							
							68.83.0 *							
G									67.62.0 R 67.63.0 L					
M											68.71.0 *			
G							130	58			67.80.0 R 67.79.0 L			
M			68.74.0 *											
M	430	350	160	93.5	140	110					68.40.0	68.56.0		

* New hanger bracket with loose wear plates.

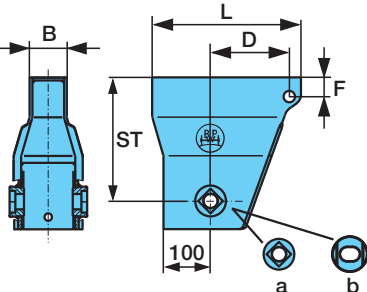
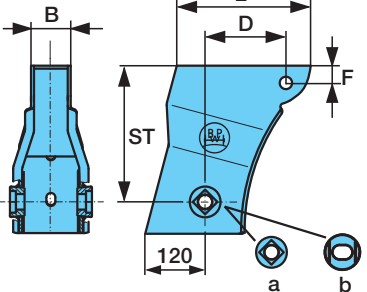
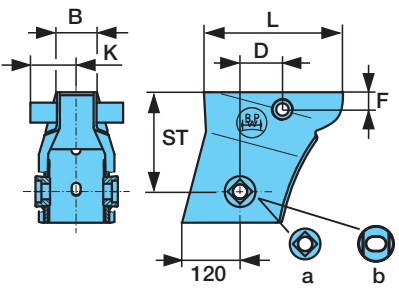
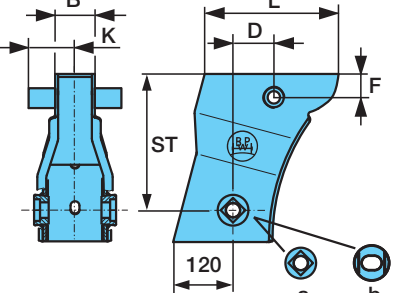
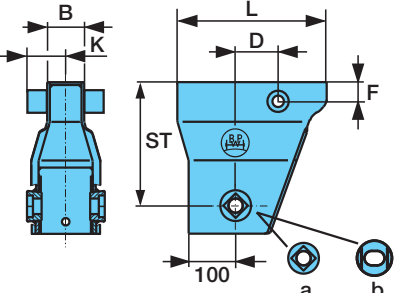
Further executions upon request.

(w. TP) = with top plate

No longer available.
Change over to hanger bracket with loose wear plates resp. hanger bracket with shock absorber attachment with screw.

10.1 Hanger brackets

Taper mounted steel hanger brackets, trailing arms 100 mm wide

<p>A</p>	<p>B</p> 	<p>C</p> 
<p>D</p>	<p>E</p>	<p>F</p>
<p>G</p> 	<p>H</p> 	<p>I</p> 
<p>J</p>	<p>K</p>	<p>Remark:</p> <ul style="list-style-type: none"> ● Do not apply heat to the suspension hanger brackets to effect any re-working or alignment. Damaged hanger brackets should be completely replaced! ● When exchanging the hanger brackets, new spring pivot bolts and locking nuts are to be used! ● Observe the welding guidelines as per BPW installation instructions!

Taper mounted steel hanger brackets, trailing arms 100 mm wide

ST = 184 - 268 mm							Hanger bracket with shock absorber attachment with screw	
Dimensions							Rigid	Adjustable
Fig.	ST	L	B	K	D	F	Exec. S	Exec. SV

Item 1510 / 1511 / 1513

Taper mounted steel hanger bracket, trailing arm 100 mm wide

Fig.	ST	L	B	K	D	F	Exec. S	Exec. SV	
G	184	265	80	93.5	80	37	05.375.40.17.0	05.375.40.54.0	
G					130	35	05.375.40.72.0 *	05.375.40.57.0	
H	268	270	80	93.5	85	51	05.375.40.10.0	05.375.40.51.0	
I							05.375.40.68.0 *		
B		319	80	-	170	41	05.375.68.43.0		
B							05.375.68.98.0 *		
C		270	80	93.5	-	170	41	05.375.67.07.0	
H								05.375.68.44.0	
I		319	80	93.5	-	170	41	05.375.68.99.0 *	
H								05.375.40.11.0	05.375.40.52.0
I		270	80	93.5	72	170	41	05.375.40.69.0 *	05.375.40.61.0
H								05.375.68.42.0	
I	319	80	93.5	-	85/170	51/41	05.375.68.97.0 *	05.375.69.01.0	
H							05.375.40.08.0	05.375.40.48.0	
I	270	80	93.5	-	85/170	51/41	05.375.40.67.0 *		
H							05.375.68.07.0	05.375.40.53.0	
							05.375.40.14.0	05.375.40.53.0	
							05.375.40.70.0 *		

* New hanger bracket with loose wear plates.

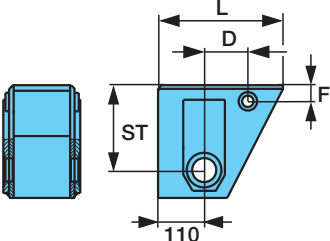
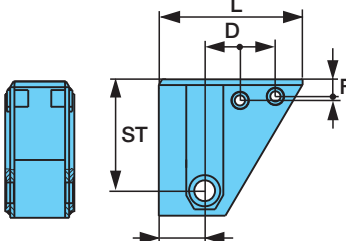
Further executions upon request.

No longer available.
Change over to hanger bracket with loose wear plates resp. hanger bracket with shock absorber attachment with screw.

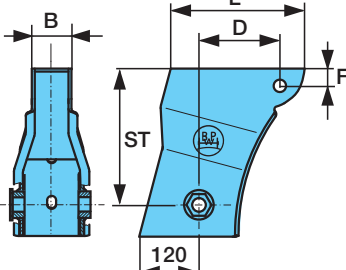
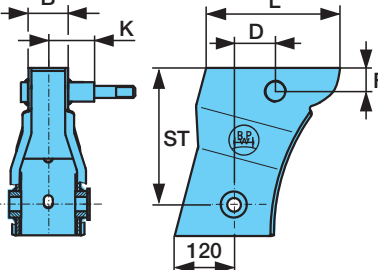
10.1 Hanger brackets

Alloy hanger brackets / stainless steel hanger brackets, trailing arms 100 mm wide

Alloy hanger bracket, trailing arm 100 mm wide

A	B	C
		<p>Aluminium hanger brackets for 100 mm wide trailing arms are no longer available. Contact BPW if replacement is required.</p>

Taper mounted stainless steel hanger bracket, trailing arm 100 mm wide

D	E	Remark:
		<ul style="list-style-type: none"> ● Do not apply heat to the suspension hanger brackets to effect any re-working or alignment. Damaged hanger brackets should be completely replaced! ● When exchanging the hanger brackets, new spring pivot bolts and locking nuts are to be used! ● Observe the welding guidelines as per BPW installation instructions!

Hanger brackets 10.1

Alloy hanger brackets / stainless steel hanger brackets, trailing arms 100 mm wide

ST = 184 - 268 mm									Hanger bracket without shock absorber attachment		Hanger bracket with shock absorber attachment on threaded bolt		Hanger bracket with shock absorber attachment with screw	
									Rigid	Adjustable	Rigid	Adjustable	Rigid	Adjustable
Fig.	ST	L	B	K	D	F	Exec. S	Exec. SV	Exec. S	Exec. SV	Exec. S	Exec. SV		
Item 1510 / 1511 / 1513							05.375.	05.375.	05.375.	05.375.	05.375.	05.375.		

Alloy hanger bracket, trailing arm 100 mm wide

Aluminium hanger brackets for 100 mm wide trailing arms are no longer available.
 Contact BPW if replacement is required.

Taper mounted stainless steel hanger bracket, trailing arm 100 mm wide

D	268	269	80	-	170	41	40.42.0 R 40.47.0 L					
E	268	269	80	93.5	85	51			40.38.0 R 40.39.0 L			
E	268	269	80	93.5	170	41			40.40.0 R 40.41.0 L			

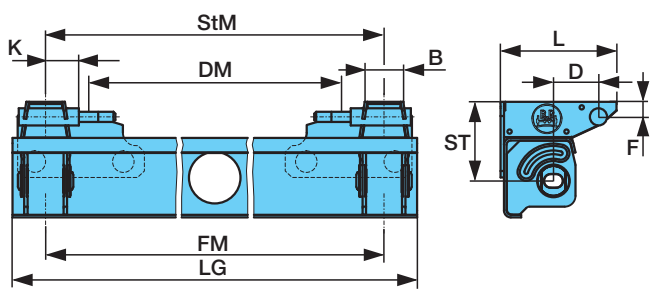
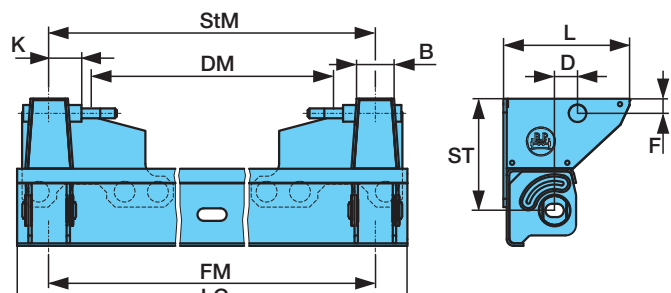
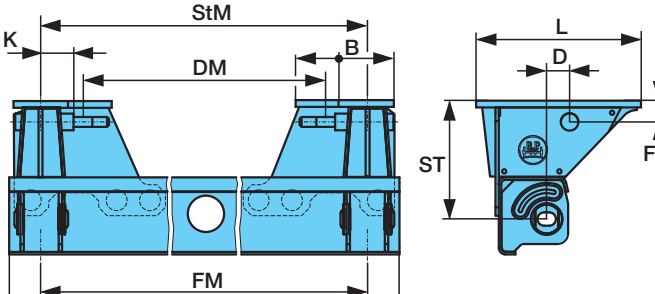
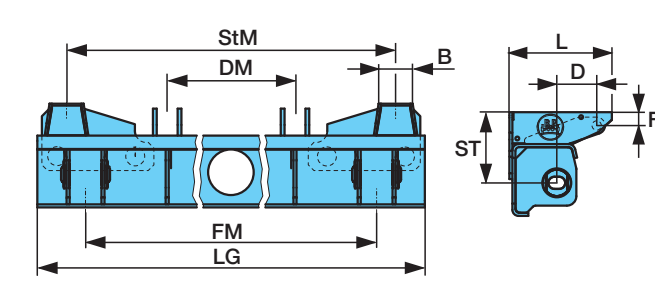
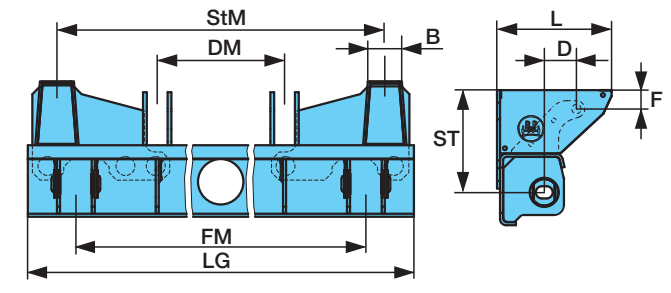
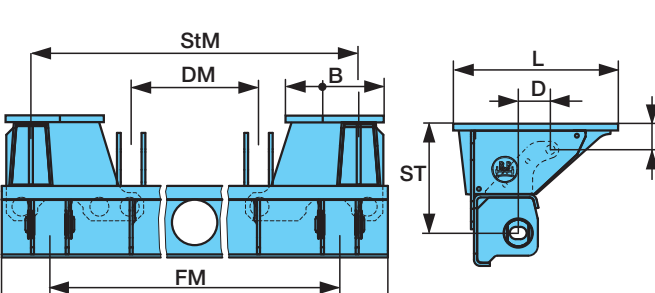
Further executions upon request.

Stainless steel hanger brackets for 100 mm wide trailing arms are no longer available.
 Contact BPW if replacement is required.

10.2 Integrated supports

Integrated support / trailing arms 70 mm wide (AL II)

AL

<p>A</p> 	<p>B</p> 
<p>C</p> 	
<p>E</p> 	<p>F</p> 
<p>G</p> 	<p>Remark:</p> <ul style="list-style-type: none"> ● Do not apply heat to the suspension integrated support to effect any re-working or alignment. Damaged integrated supports should be completely replaced! ● When exchanging the integrated supports, new spring pivot bolts and locking nuts are to be used! ● Observe the welding guidelines as per BPW installation instructions!

Integrated support / trailing arms 70 mm wide (AL II)

ST = 184 - 194 mm												Integrated support with shock absorber attachment on threaded bolt	Integrated support with shock absorber attachment with screw between plates
												Adjustable	Adjustable
Dimensions													

Fig.	ST	FM	DM	StM	LG	L	B	K	D	F	FB Ø	Exec. CV	Exec. CV
------	----	----	----	-----	----	---	---	---	---	---	------	----------	----------

Integrated support, adjustable, trailing arm 70 mm wide Item 1515

A	184	1100	890	1100	1274	270	90	77.5	80	35	80	30	05.445.56.51.0			
											105	24	05.445.56.72.0			
											30	30	05.445.56.36.0			
											30	30	05.445.56.50.0			
											24	24	05.445.56.78.0			
											30	30	05.445.56.49.0			
		1350	1140	1350	1454						1554	80	30	24	05.445.56.83.0	
													30	30	05.445.56.52.0	
													24	24	05.445.58.05.0	
													30	30	05.445.56.48.0	
													24	24	05.445.58.03.0	
													30	30	05.445.56.48.0	
E	186	1200	770	1200	1354	270	90	-	80	35	30		05.445.56.56.0			
											24		05.445.56.96.0			
											30		05.445.56.53.0			
											24		05.445.58.02.0			
											30		05.445.56.54.0			
											24		05.445.56.75.0			
		1300	870	1350	1454						1554	80	30		05.445.56.57.0	
													24		05.445.58.07.0	
													30		05.445.56.57.0	
													24		05.445.58.07.0	
													30		05.445.56.55.0	
													24		05.445.56.55.0	
C	194	1300	1090	1300	1454	450	140/230	77.5	100	45	30	05.445.56.41.0				
											24	05.445.56.87.0				

Further executions upon request.

AL

10.2 Integrated supports

Integrated supports / trailing arms 70 mm wide (AL II)

AL

A	B
	<p>Remark:</p> <ul style="list-style-type: none"> ● Do not apply heat to the suspension integrated support to effect any re-working or alignment. Damaged integrated supports should be completely replaced! ● When exchanging the integrated supports, new spring pivot bolts and locking nuts are to be used! ● Observe the welding guidelines as per BPW installation instructions!

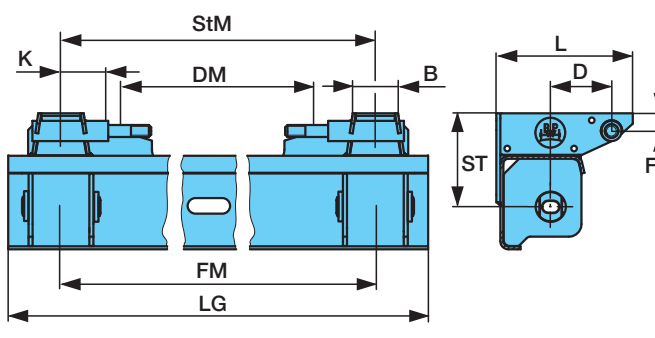
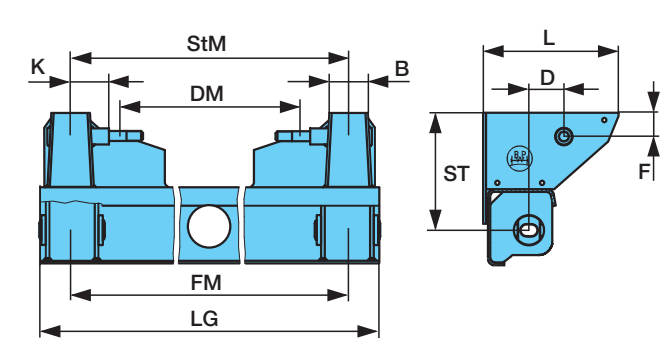
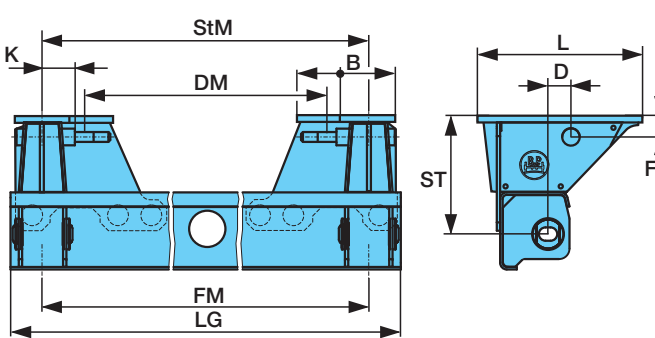
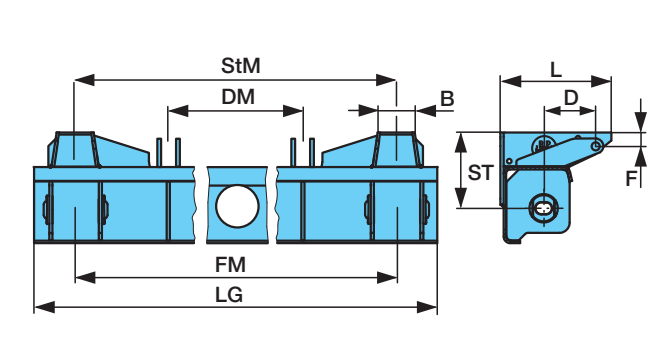
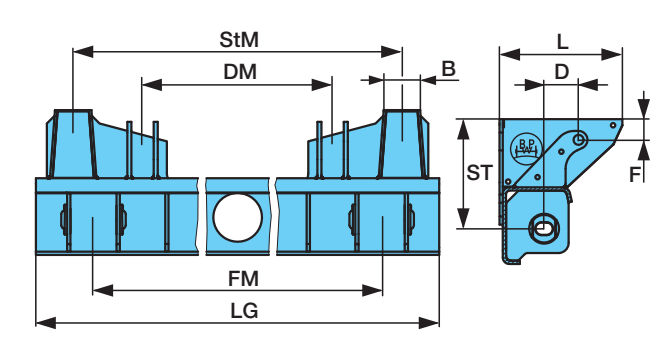
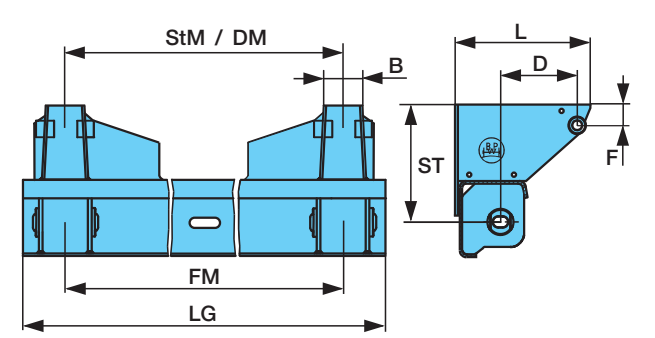
Integrated supports / trailing arms 70 mm wide (AL II)															
ST = 268 - 312 mm												Integrated support with shock absorber attachment on threaded bolt		Integrated support with shock absorber attachment with screw between plates	
Dimensions												Adjustable		Adjustable	
Fig.	ST	FM	DM	StM	LG	L	B	K	D	F	FB Ø	Exec. CV	Exec. CV		
Integrated support, adjustable, trailing arm 70 mm wide						Item 1515									
B	268	980	770	980	1134	303	90	77.5	55	35	30	05.445.56.35.0			
				24	05.445.56.97.0										
		1100	890	1100	1274				85	50	30	05.445.56.15.0			
											24	05.445.56.80.0			
		1200	990	1200	1354				55	35	30	05.445.56.42.0			
											24	05.445.56.73.0			
		1300	1090	1300	1454				85	50	30	05.445.56.24.0			
											24	05.445.56.74.0			
		1350	1140	1350	1554				55	35	30	05.445.56.18.0			
											24	05.445.58.14.0			
		1400	1190	1400	1554				85	50	30	05.445.56.26.0			
											24	05.445.56.79.0			
									55	35	30	05.445.56.19.0			
											24	05.445.56.84.0			
				85	50	30	05.445.56.08.0								
						24	05.445.56.85.0								
				85	50	30	05.445.56.40.0								
						24	05.445.58.10.0								
				55	35	30	05.445.56.04.0								
						24	05.445.58.01.0								
				85	50	30	05.445.56.03.0								
						24	05.445.56.88.0								
F	270	1200	770	1200	1354	303	90	-	85	50	30		05.445.56.33.0		
				24	05.445.56.93.0										
			990	1300	1454						30	05.445.56.11.0			
											24	05.445.58.13.0			
		1300	870	1300	1454						30	05.445.56.16.0			
											24	05.445.56.22.0			
			920	1350	1554						30	05.445.56.76.0			
											24	05.445.56.44.0			
				30	05.445.56.44.0										
				24	05.445.58.12.0										
C	278	1300	1090	1300	1454	450	140/230	77.5	100	60	30	05.445.56.06.0			
											24	05.445.58.15.0			
G	280	1200	770	1300	1454	450	140/230	-	100	60	30	05.445.56.13.0			
											24	05.445.56.82.0			
C	312	1300	1090	1300	1454	450	140/230	77.5	120	45	30	05.445.56.45.0			
											24	05.445.56.86.0			

Further executions upon request.

AL

10.2 Integrated supports

Integrated supports / trailing arms 100 mm wide

A	B
	
C	D
	
E	F
	
G	Remark:
	<ul style="list-style-type: none"> ● Do not apply heat to the suspension integrated support to effect any re-working or alignment. Damaged integrated supports should be completely replaced! ● When exchanging the integrated supports, new spring pivot bolts and locking nuts are to be used! ● Observe the welding guidelines as per BPW installation instructions!

Integrated supports / trailing arms 100 mm wide															
ST = 184 - 370 mm											Integrated support with shock absorber attachment on threaded bolt	Integrated support with shock absorber attachment with screw between plates	Integrated support with shock absorber attachment screw in support centre		
Dimensions											Adjustable	Adjustable	Adjustable		
Fig.	ST	FM	DM	StM	LG	L	B	K	D	F	Exec. C	Exec. C	Exec. C		
Integrated support, adjustable, trailing arm 100 mm wide													Item 1515		
A	184	980	738	980	1134	270	90	93.5	90	35	05.445.55.43.0				
		1100	858	1100	1274						05.445.55.42.0				
		1200	958	1200	1354						05.445.55.41.0				
		1300	1058	1300	1454						05.445.55.40.0				
E	186	1200	738	1200	1354	270	90	-	90	35		05.445.55.47.0			
				1300	1454							05.445.55.45.0			
B	268	900	658	900	1054	303	90	93.5	170	41	05.445.54.67.0				
		980	738	980	1134				85	51	05.445.54.73.0				
		1100	858	1100	1274	303	90	93.5	85	51	05.445.54.61.0				
									170	41	05.445.54.82.0				
		1200	958	1200	1354	303	90	93.5	85	51	05.445.54.50.0				
									170	41	05.445.55.31.0				
		1250	1028	1270	1454	303	90	93.5	85	51	05.445.54.40.0				
									170	41	05.445.54.41.0				
		1300	1058	1300	1454	303	90	93.5	85	51	05.445.54.40.0				
			1300						170	41			05.445.55.24.0		
G		1350	1350	1350	1554	303	90	-	170	41			05.445.55.36.0		
		1400	1158	1400				93.5	85	51	05.445.55.33.0				
F	270	1170	928	1270	1454	303	90	-	85	51		05.445.54.21.0			
				170	41					05.445.54.89.0					
		1200	738	1200	1354	303	90	-	85	51		05.445.55.01.0			
				1300	1454					05.445.54.48.0					
C	278	980	738	980	1134	450	140/230	93.5	85	61	05.445.55.19.0				
B	302	980	738	980	1134	323	90	93.5	120	35	05.445.55.29.0				
									190	41	05.445.55.26.0				
		120	35	05.445.55.30.0											
		1300	1058	1300	1454				120	35	05.445.55.30.0				
	370	980	738	980	1134	346	90	93.5	140	90	05.445.55.25.0				

Replacement channel crossmembers are now only supplied with adjustable spring bolt mounting.
Note the modified spring pivot bolts if replacement is required.

Further executions upon request.

10.3 Spare parts for hanger brackets, integrated supports, frames

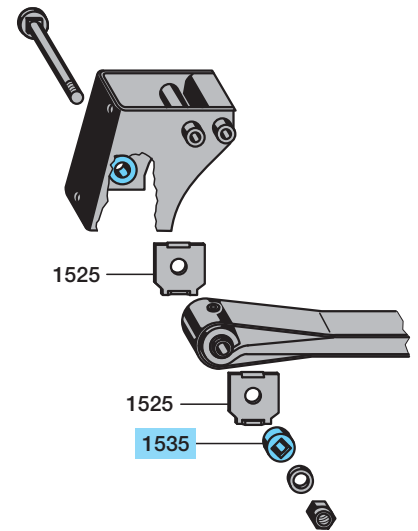
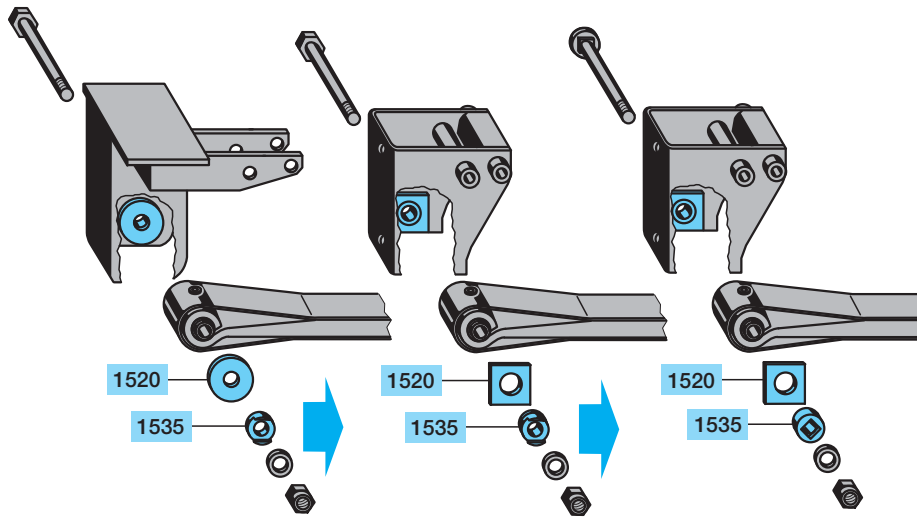
Weld-in bushes for spring pivot bearings

Weld-in bushes for steel hanger brackets / integrated supports / frames with unadjustable spring pivot bolt bearing

Spring pivot bolt bearing for steel hanger bracket with slotted bushes (torsion protection), welded on wear plates (1520)

Spring pivot bolt bearing for steel hanger bracket with square internal lock bushes (torsion protection), welded on wear plates (1520)

Spring pivot bolt bearing for steel hanger bracket with square internal lock bushes (torsion protection), loose wear plates (1525)



**Weld-in bushes (Item 1535) no longer available.
Conversion to torsion protection with square internal lock bush.**

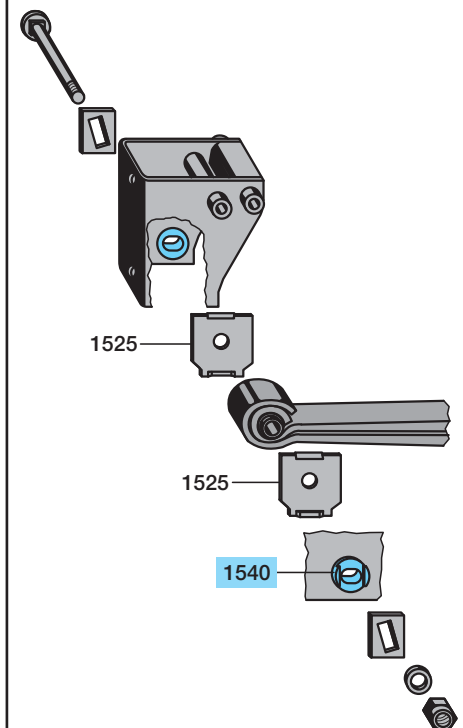
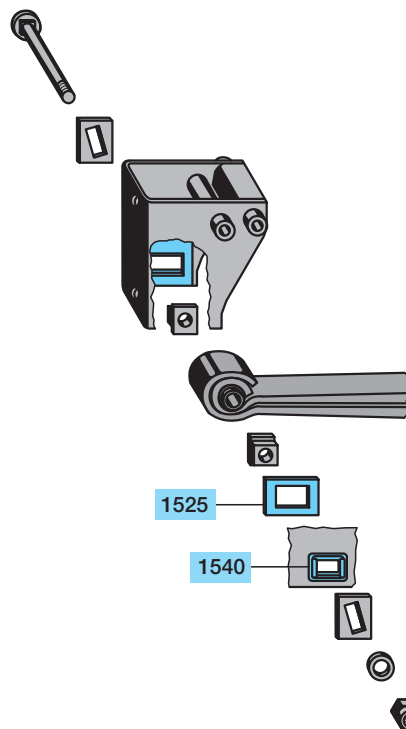
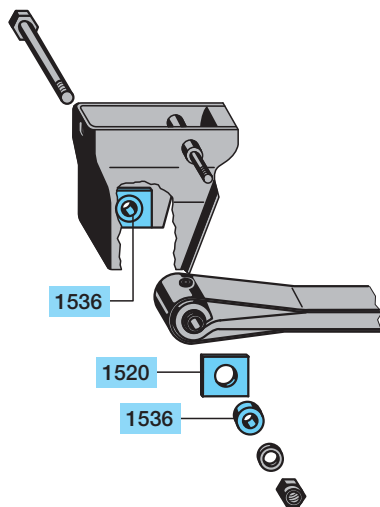
Weld-in bushes for stainless steel hanger brackets with unadjustable spring pivot bolt bearing

Weld-in bushes for steel hanger brackets / integrated supports with adjustable spring pivot bolt bearing

Unadjustable spring pivot bolt bearing, stainless steel hanger bracket

Adjustable spring pivot bolt bearing, hanger bracket with square profile

Adjustable spring pivot bolt bearing, hanger bracket with elongated hole



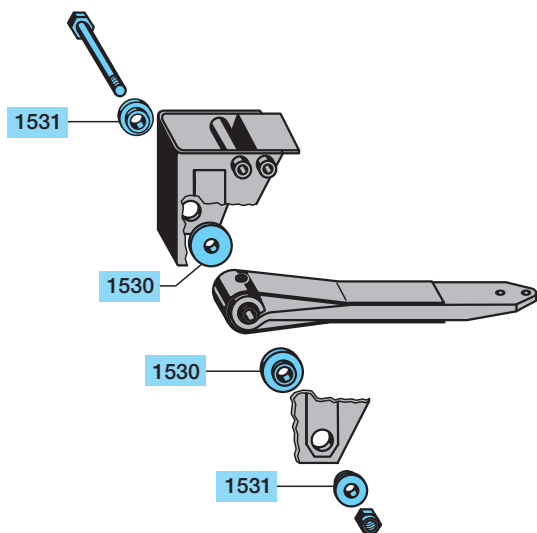
Spare parts for hanger brackets, integrated supports, frames 10.3

Weld-in bushes for spring pivot bearings			
Item	Designation	Remark	BPW Code no. Dimensions
Weld-in bushes for steel hanger brackets / integrated supports / frames with unadjustable spring pivot bolt bearing			
Round wearing plate, torsion protection with slotted bushes			
1520	Washer	03.320.36.08.0 \varnothing 30 / 121 x 5	
1535	Weld-in bush	03.113.02.06.0 no longer available *	
Square wearing plate, pivot bush, torsion protection with slotted bushes			
1520	Plate	03.281.15.03.0 \varnothing 56 / \square 105 x 3 03.281.35.16.0 \varnothing 56 / \square 101 / 140 x 4.5	
1535	Weld-in bush	03.113.02.09.0 no longer available *	
Square wearing plate, pivot bush, torsion protection with square internal lock bush			
1520	Plate	03.281.15.03.0 \varnothing 56 / \square 105 x 3 03.281.35.16.0 \varnothing 56 / \square 101 / 140 x 4.5	
1535	Weld-in bush	03.113.01.34.0 \varnothing 30 / 51 / 56 x 29	
Loose wear plates, torsion protection with square internal lock bush			
1525	Shaped plate	see spring pivot bolt bearings	
1535	Weld-in bush ¹⁾ Spring pivot bolt \varnothing 24	03.113.00.56.0 \varnothing 24.1 / 55 / 68 x 22	
	Spring pivot bolt \varnothing 30	03.113.01.46.0 \varnothing 30.5 / 55 / 74 x 24	
Weld-in bushes for stainless steel hanger brackets with unadjustable spring pivot bolt bearing			
Square wearing plate, pivot bush, torsion protection with square internal lock bush			
1520	Plate	03.281.25.07.0 \varnothing 56 / \square 101 / 140 x 5	
1535	Weld-in bush with torsion protection	05.113.01.40.0 \varnothing 30.5 / 55 x 31	
1536	Ring	03.310.32.45.0 \varnothing 30.5 / 55 x 25	
Weld-in bushes for steel hanger brackets / integrated supports, with adjustable spring pivot bolt bearing			
Adjustable spring pivot bolt bearing, hanger bracket with square profile			
1525	Plate	03.281.25.04.0 140 x 101 x 4.5 03.281.25.06.0 130 x 101 x 4.5	
1540	Shaped part	03.001.14.86.0 92 x 62 x 25	
Adjustable spring pivot bolt bearing, hanger bracket with elongated hole			
1525	Shaped plate	siehe Federbolzenlagerungen	
1540	Weld-in bush ¹⁾ Spring pivot bolt \varnothing 24	03.113.03.10.0 \varnothing 24.3/36.6 / 68 x 21	
	Spring pivot bolt \varnothing 30	03.113.23.01.0 \varnothing 30.3/42.6 / 74 x 23	
* Conversion kits see spring pivot bolt bearing page 68 - 71.			
¹⁾ Changing the weld-in bushes see pages 170 / 171.			

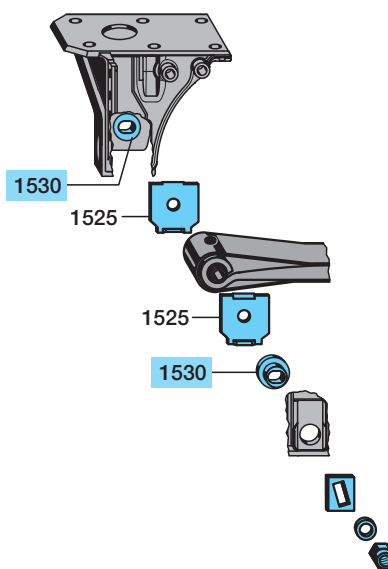
10.3 Spare parts for hanger brackets, integrated supports, frames

Wear plates for alloy hanger brackets

Unadjustable spring pivot bolt bearing

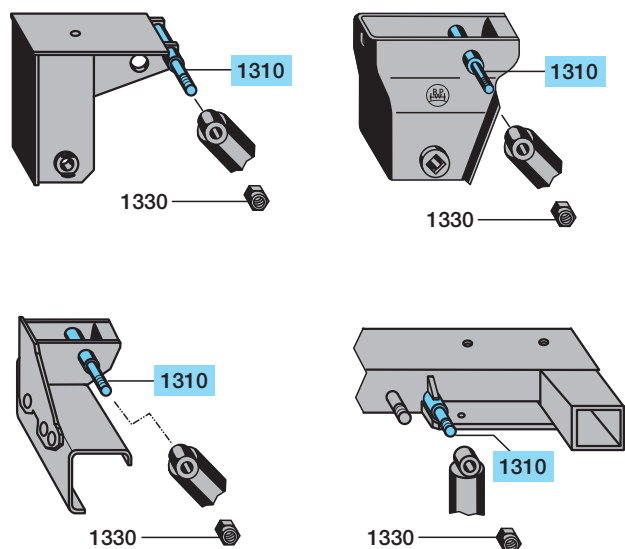


Adjustable spring pivot bolt bearing
Cast alloy hanger bracket

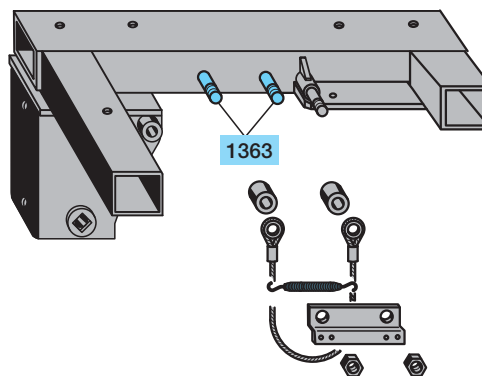


Weld-in bolts for shock absorber attachment / check strap

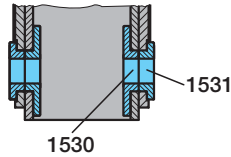
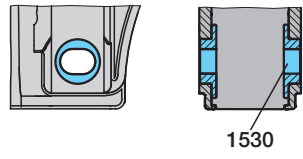
Weld-in bolts for shock absorber attachment



Weld-in bolts for check strap attachment



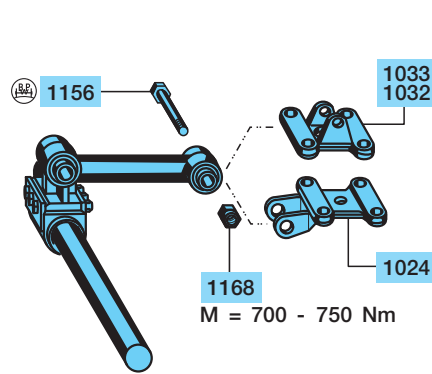
Spare parts for hanger brackets, integrated supports, frames 10.3

Wear plates for alloy hanger brackets			
Item	Designation	Remark	BPW Code no. Dimensions
Wear plates for alloy hanger brackets with unadjustable spring pivot bolt bearing			
			Unadjustable spring pivot bolt bearing
1530	Washer		03.320.16.04.0 Ø 30 / 50 / 110 x 20
1531	Washer		03.320.14.07.0 Ø 30 / 50 / 70 x 16
			
Wear plates for cast alloy hanger brackets with adjustable spring pivot bolt bearing			
			Adjustable spring pivot bolt bearing Cast alloy hanger bracket
1525	Shaped plate		see spring pivot bolt bearings
1530	Bush	Spring pivot bolt Ø 24	03.113.00.50.1 Ø 24.3/36.6 / 55/90 x 20
		Spring pivot bolt Ø 30	03.113.01.43.1 Ø 30.2/42.5 / 55/90 x 20
			
Weld-in bolts for shock absorber attachment / check strap			
			Shock absorber attachment
1310	Threaded bolt		see upper shock absorber attachment page 92
			Fangseilbefestigung
1363	Threaded bolt		see check strap attachment page 103

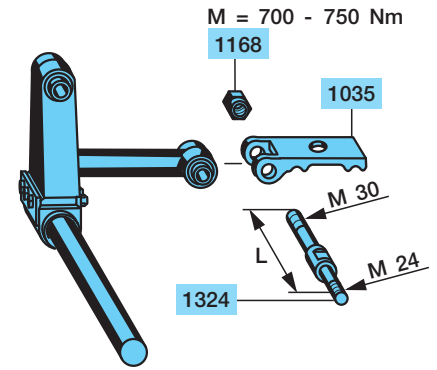
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11 U-stabilizers

U-stabilizer attachments

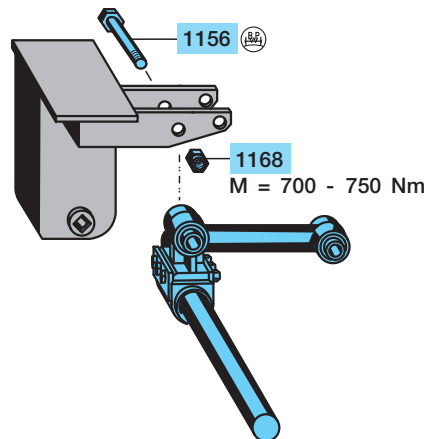


Lower U-stabilizer attachment between plates

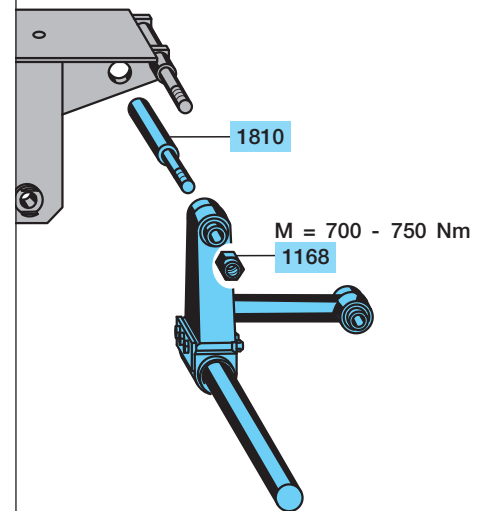


Lower U-stabilizer attachment on threaded bolts

Item	Designation	Remark	BPW Code no.	Dimensions	BPW Code no.	Dimensions
1024	Spring seat		see page 33		-	
1032	Spring plate		see page 41 / 45		see page 41	
1033						
1035						
1156	Hexagon screw		03.340.15.26.0	M 30 x 130 - 8.8	-	
1168	Lock nut		03.260.15.01.0	M 30 / SW 46	03.260.15.01.0	M 30 / SW 46
1324	Threaded bolt		-		03.177.24.22.0	M 24 / M 30 / L = 260



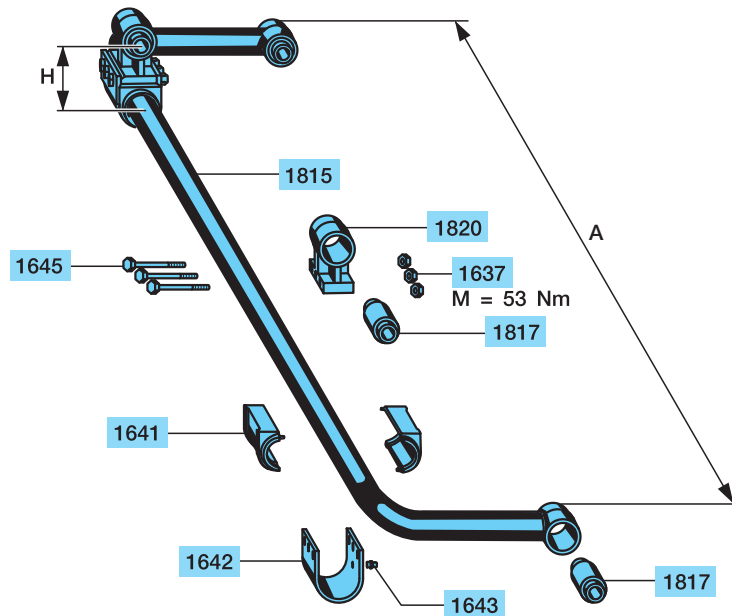
Upper U-stabilizer attachment between plates



Upper U-stabilizer attachment on threaded bolts

Item	Designation	Remark	BPW Code no.	Dimensions	BPW Code no.	Dimensions
1156	Hexagon screw		03.340.15.26.0	M 30 x 130 - 8.8	-	
1168	Lock nut		03.260.15.01.0	M 30 / SW 46	03.260.15.01.0	M 30 / SW 46
1810	Threaded bolt		-		03.177.35.08.0	M 30 / Ø 45 x 144

U-stabilizers



Item	Designation	Remark	BPW Code no.	Dimensions
1637	Lock nut		02.5220.10.82	VM 10 / 980
1641	Bush		03.113.98.06.0	Ø 50 / 70 x 94
1642	Shaped plate		03.160.56.01.0	
1643	Grease nipple		02.6802.03.50	AM 10 x 1 / 71412
1645	Hexagon screw		02.5021.54.10	M 10 x 110 - 10.9
Bush (Item 1817)				
1815	U-stabilizer (incl. item 1817)		05.114.98.18.0	A = 900
			05.114.98.19.0	A = 980
			05.114.98.20.0	A = 1100
			05.114.98.21.0	A = 1200
			05.114.98.22.0	A = 1300
Bush (Item 1817)				
1817	Bush		05.113.96.06.0	Ø 30 / 52.6 x 68
			05.113.96.05.0	Ø 30 / 60 x 68
Bush (Item 1817)				
1820	Support (incl. item 1817)		05.189.01.78.0	H = 120
			05.189.03.97.0	H = 180
			05.189.02.16.0	H = 275
			05.189.03.99.0	H = 395
Bush (Item 1817)				
Bush (Item 1817)				

12 Drawbar attachments, spring pivot bolt torsion protections

Drawbar attachments, spring pivot bolt torsion protections

			Drawbar attachment for welded hanger brackets		Drawbar attachment for formed hanger brackets / Best-Design-hanger brackets	
Item	Designation	Remark	BPW Code no.	Dimensions	BPW Code no.	Dimensions
1550	Support (incl. item 1551 + 1552)		05.189.05.63.0	fo bolt Ø 30	05.189.10.85.0	for bolt Ø 30
1551	Bush	without slit	03.113.01.23.0	Ø 30 / 58 / 65 x 31	03.113.01.31.0	Ø 30 / 58 / 65 x 31
1552	Bush	with slit	03.113.01.24.0	Ø 30 / 58 / 65 x 36	03.113.01.30.0	Ø 30 / 58 / 65 x 36

			Welded on torsion protection with steel hanger brackets / integrated supports and axle lift device		Screwed on torsion protection with steel hanger brackets / integrated supports and axle lift device	
Item	Designation	Remark	BPW Code no.	Dimensions	BPW Code no.	Dimensions
1560	Shaped plate (welded on torsion protection)		03.161.35.07.0	for SW 46	-	
1560	Shaped part (screwed on torsion protection)		-		03.001.14.88.0	for SW 46

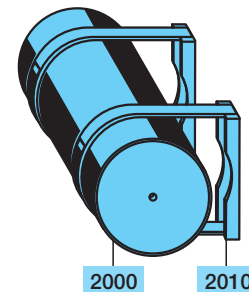
Drawbar attachments, spring pivot bolt torsion protections			
	<p>Fit connecting link disc with welded on torsion protection for adjustable steel hanger bracket / integrated support and axle lift device, hanger bracket with square profile</p>	<p>Fit connecting link disc with welded on torsion protection for adjustable steel hanger bracket / integrated support and axle lift device hanger bracket with elongated hole</p>	
Item	Designation	Remark	BPW Code no. Dimensions
1560	Adjusting plate with welded on torsion protection		<div style="display: flex; justify-content: space-between;"> 05.001.32.01.0 B = 72 05.001.32.02.0 B = 57.5 </div>

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13 Air tanks

Air tanks

Item	Designation	Remark	BPW Code no.			Dimensions			BPW Code no.	
			Air tank Item 2000	Capacity Litre	Ø	L	Attachment Item 2010			
2000	Air tank		02.2004.09.00	10	206	355	05.189.15.21.0			
			02.2004.01.00	40	276	745	02.0328.10.00			
			02.2004.05.00	60	310	850	05.189.14.68.0			
			02.2004.11.00 AL	60	310	850	05.189.14.68.0			
			02.2004.02.00	60	396	565	02.0326.13.00			
			02.2004.10.00 AL	60	396	565	02.0326.13.00			
			AL = Alloy							



ECO Air AIRTANK

Item	Designation	Remark	BPW Code no.			Dimensions			BPW Code no.	
			Air tank Item 2000	Capacity Litre	Ø	L	Attachment Item 2010			
2000	Air tank		02.2004.36.00	30	276	628	02.0326.43.00			
			02.2004.35.00	40	276	807	02.0326.43.00			
			02.2004.34.00	60	276	1077	02.0326.43.00			
			02.2004.33.00	60	310	960	02.0326.42.00			
			02.2004.30.00	60	396	650	02.0326.41.00			
			02.2004.31.00	80	396	824	02.0326.41.00			
			02.2004.32.00	100	396	999	02.0326.41.00			



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13 Axle lifts

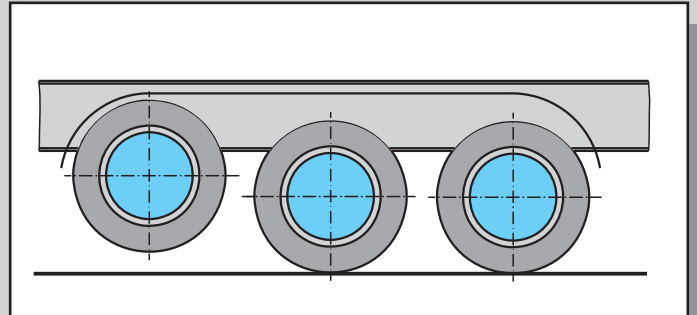
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General

BPW Axle lift devices

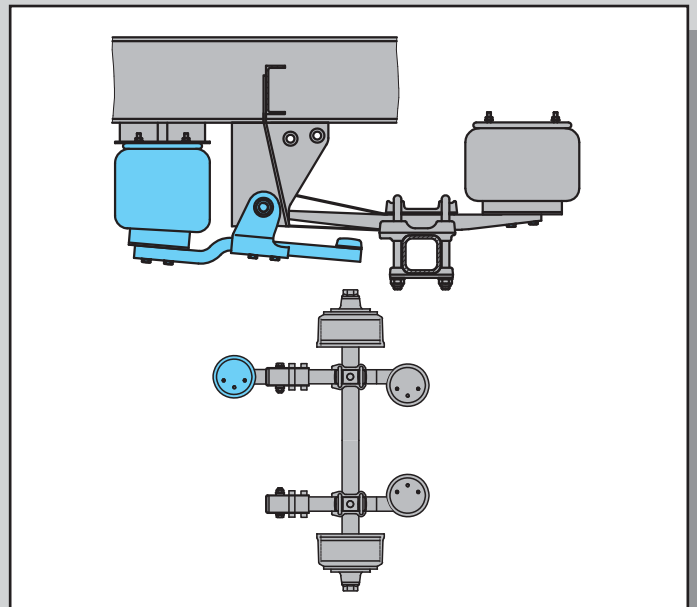
As an option, multi-axle vehicles can be equipped with an axle lift to reduce the wear on the tyres when driving unladen or with a light cargo.

BPW offers axle lifts for positioning in the middle or at the sides of the axle.



Sidewise mounted axle lift

A sidewise mounted lift is recommended for lifting the first axle and in vehicles with limited ground clearance, high axle loads or long suspension travel.

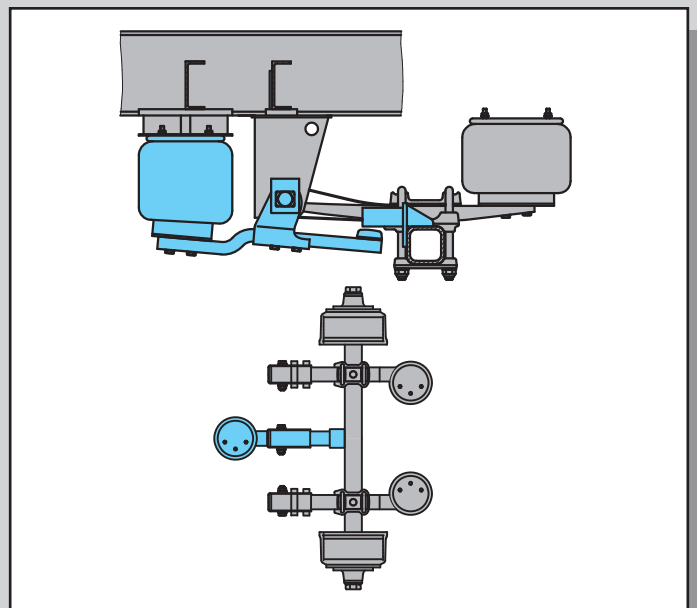


Central mounted axle lift

The lifting device can be arranged in the centre of the axle for lifting the middle (rear) suspension axle or if space is limited.

This axle lift device is attached to the frame by crossmembers in the middle of the vehicle.

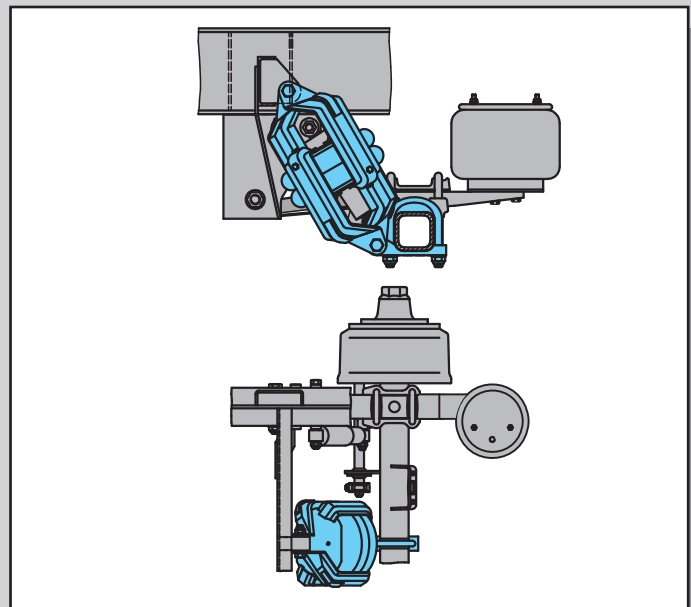
The lift bag forces must also be absorbed by a crossmember.



Spare parts for ECO Air COMPACT air suspensions see pages 172 - 176.

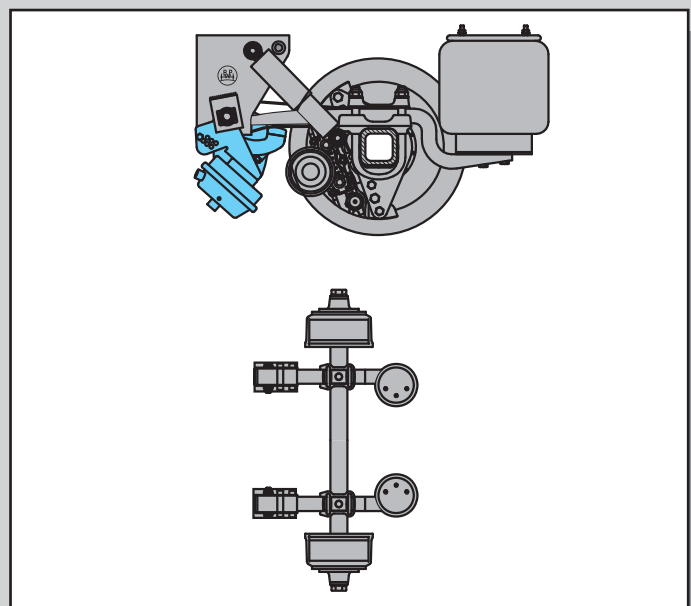
Central lift

Both the central axle lift device using a lifting bag and the BPW central lift with bellows fitted in the middle of the vehicle can lift one or more suspension axles and are integrated within the space of the axle unit. Their compact design means they are preferred for use in vehicles with limited ground clearance and small tyres (e.g. pallet box trailers with single tyres).



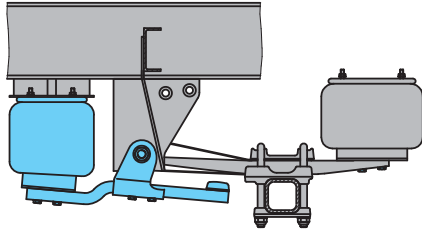
Two-side axle lift

The double-sided lift (for air-sprung axles up to 10 tonnes) does not need any space in front of the air suspension hanger brackets or in the middle of the vehicle. It can be retrofitted at any time to offer the convincing benefits of low weight and good ground clearance.

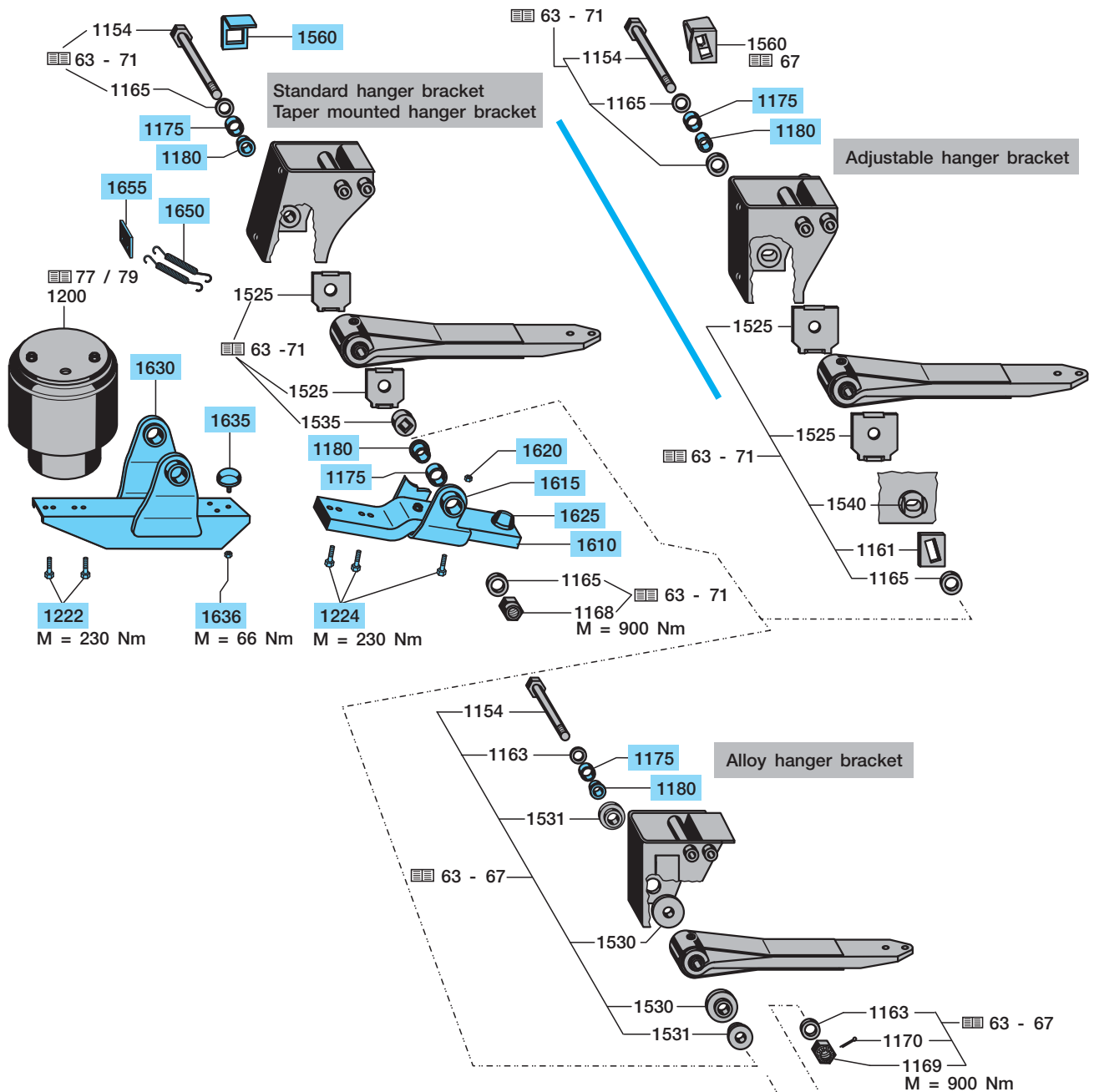


13.1 Sidewise mounted axle lifts

Sidewise mounted axle lifts, trailing arms 100 mm wide



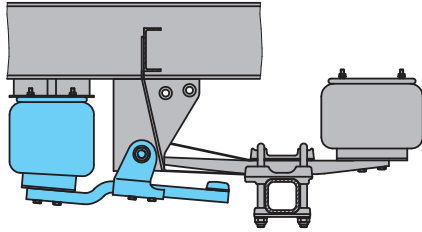
Sidewise mounted axle lift



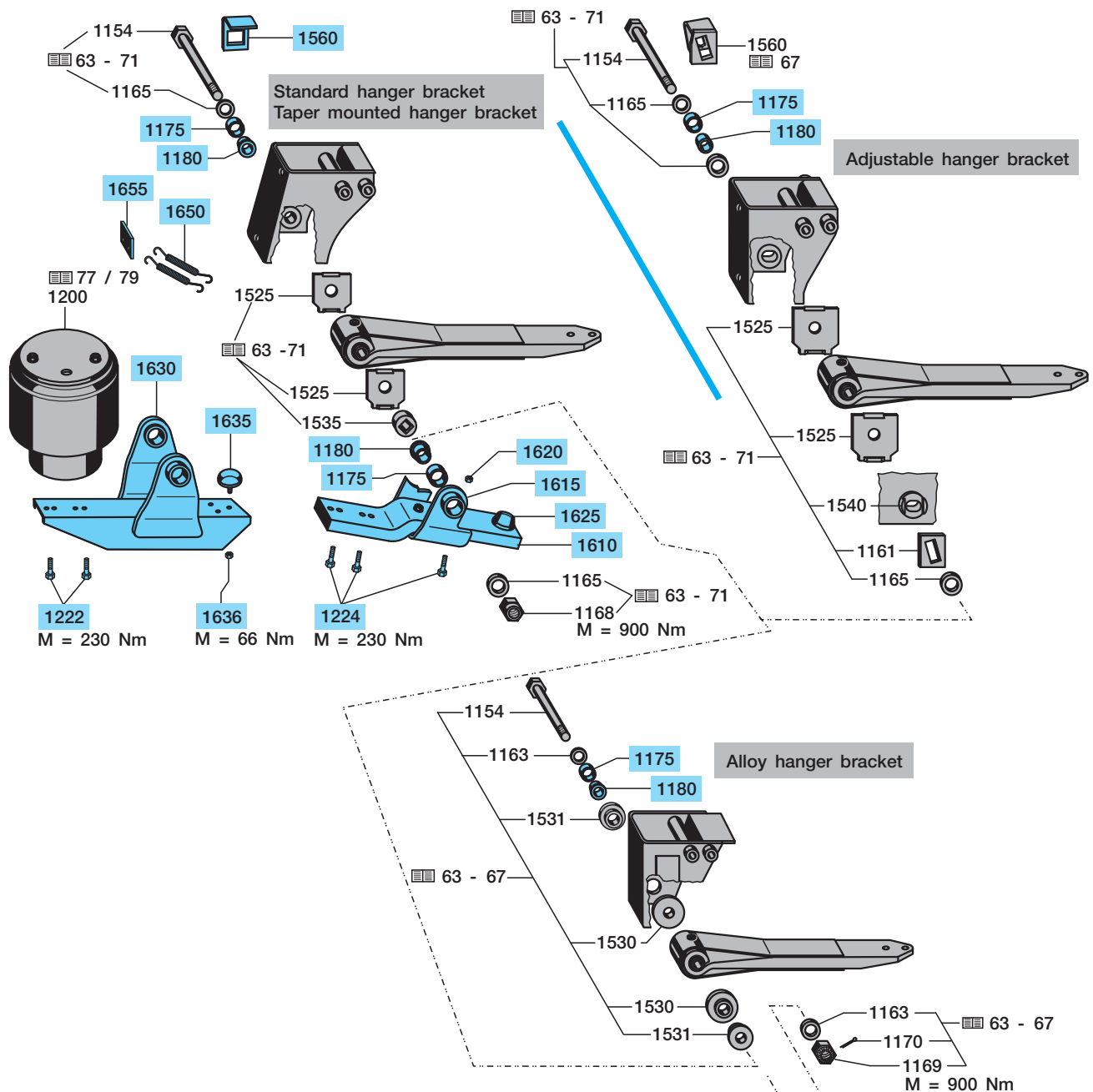
Sidewise mounted axle lift, trailing arms 100 mm wide						
Item	Designation	Remark	BPW Code no. Dimensions	BPW Code no. Dimensions		
			Steel hanger bracket, torsion protection with square internal lock bush	Alloy hanger bracket		
1154	Screw (Spring pivot bolt)		see page 63 - 71	see page 63 - 67		
1163	Washer					
1165	Washer					
1168	Lock nut					
1169	Castle nut					
1170	Split pin					
1175	Bush		03.113.94.10.0	Ø 41 / 50 x 23	03.113.94.10.0	Ø 41 / 50 x 23
1180	Graduated bush		03.113.01.29.0	Ø 30 / 40 / 46 x 31	03.113.01.29.0	Ø 30 / 40 / 46 x 31
1200	Air bag		see page 77 / 79			
1222	Locking screw		03.340.12.21.0 M 16 x 30 (for welded supporting arm)			
1224	Locking screw		02.5070.95.00 M 16 x 65 (for solid supporting arm)			
1513	Hanger bracket		see page 111 - 119	see page 119		
1560	Shaped plate (welded on torsion protection with steel hanger brackets)		03.161.35.07.0 -			
Solid, screwed supporting arm						
Supporting arm with bump stop						
1610	Lifting arm		03.195.00.97.0	L = 680		
1615	Support	(for steel hanger bracket) (for steel hanger bracket) (for alloy hanger bracket)	05.189.12.38.0	B = 166		
			05.189.13.19.0	B = 176		
			05.189.07.38.0	B = 192.5		
1224	Locking screw		02.5070.95.00	M 16 x 65		
1620	Lock nut *		02.5220.23.82	VM 16 / 980-8		
1625	Bump stop		02.3506.02.00	Ø 80 / M 12		
* for supporting arm without threaded holes.						

13.1 Sidewise mounted axle lifts

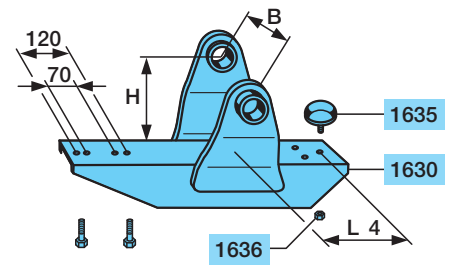
Sidewise mounted axle lifts, trailing arms 100 mm wide



Sidewise mounted axle lift



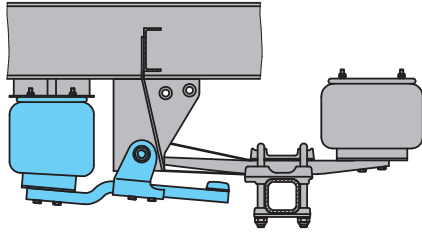
Sidewise mounted axle lift, trailing arms 100 mm wide									
Item	Designation	Remark	BPW Code no. Dimensions						
			Welded supporting arm with bump stop						
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 15%;">B</th> <th style="width: 15%;">H</th> <th style="width: 15%;">L 4</th> </tr> </thead> </table>		B	H	L 4		
	B	H	L 4						
1630	Lever (for steel hanger bracket)		05.190.49.39.0	166	105	280			
			05.190.49.45.0		105	320			
			05.190.49.55.0		120	230			
			05.190.49.56.0		135	280			
			05.190.49.28.0		165	250			
			05.190.49.29.0		165	280			
			05.190.49.30.0		165	320			
			05.190.49.31.0		165	350			
			05.190.49.32.0		165	390			
			05.190.49.62.0		165	470			
			05.190.49.46.0		165	550			
			05.190.49.57.0		185	215			
			Support			05.189.14.83.0	176	55	240
			1630		Lever (for alloy hanger bracket)		05.190.49.63.0	192	105
05.190.49.49.0	130	240							
05.190.49.50.0	135	280							
05.190.49.54.0	135	320							
05.190.49.47.0	165	250							
05.190.49.48.0	165	280							
1635	Bump stop		02.3506.01.00	□ 80 / M 12 x 32					
			02.3506.02.00	∅ 80 / M 12					
1636	Lock nut		02.5273.33.80	M 12 - 10					
1650	Return spring		05.397.36.05.0	∅ 3.5 / 23.5 x 250					
1655	Plate		03.281.42.12.0	70 x 70 x 6					



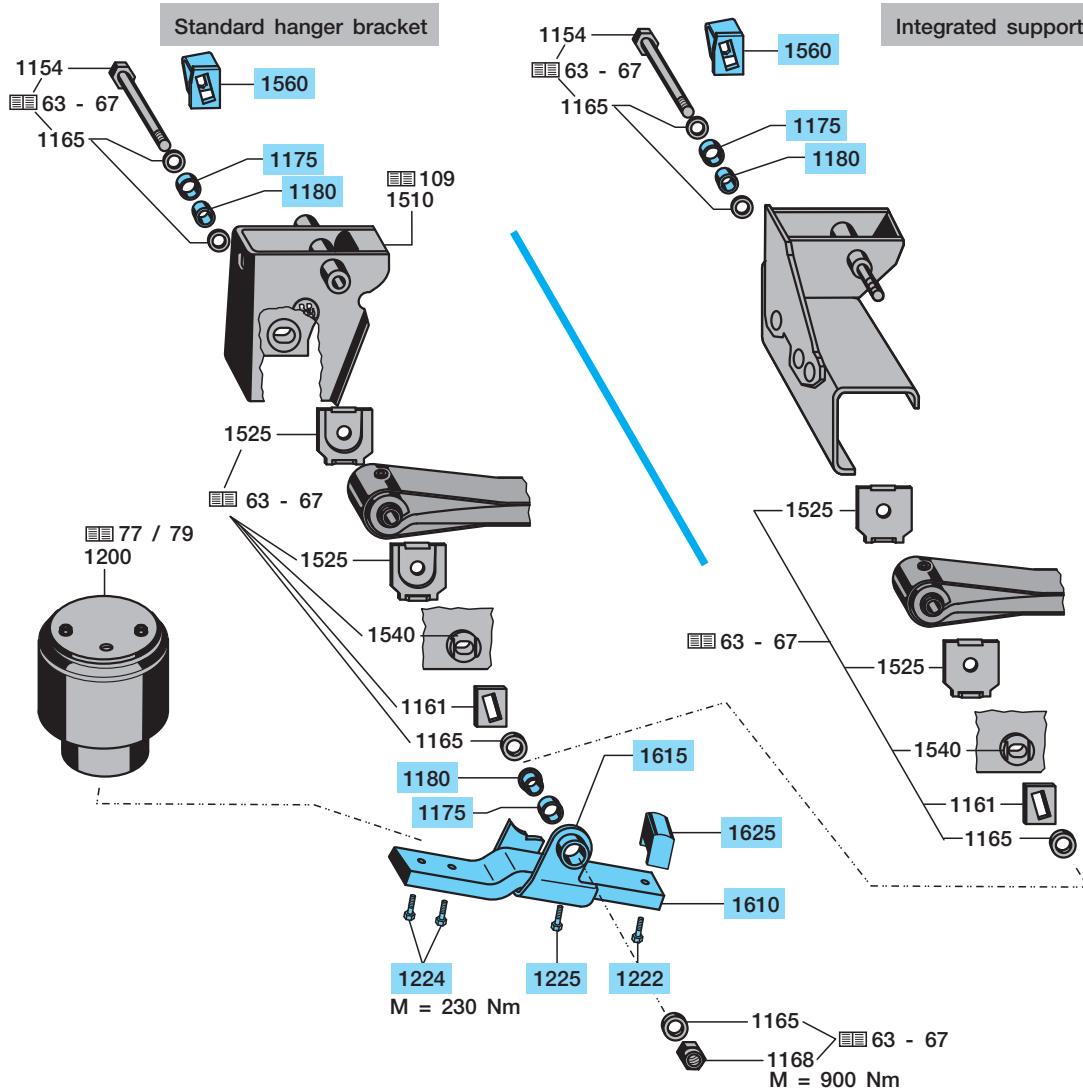
No longer available.
Change over to solid lever (page 139).

13.1 Sidewise mounted axle lifts

Sidewise mounted axle lifts, trailing arms 70 mm wide



Sidewise mounted axle lift

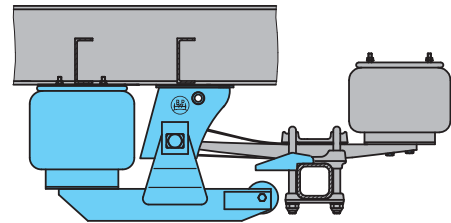
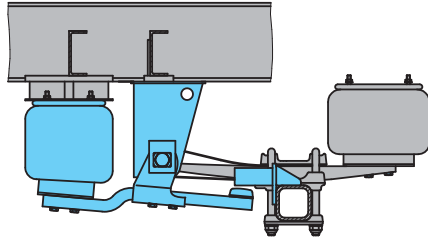


Sidewise mounted axle lift, trailing arms 70 mm wide			
Item	Designation	Remark	BPW Code no. Dimensions
			Adjustable spring pivot bolt bearing, hanger bracket / integrated support with elongated hole, connecting link disc with welded on torsion protection
1154	Screw (Spring pivot bolt)		see page 63 - 67
1161	Plate (adjusting plate)		
1165	Washer		
1168	Lock nut		
1175	Bush		03.113.94.10.0 \varnothing 41 / 50 x 23
1180	Ring		03.310.30.49.0 \varnothing 30 / 39 x 25
1200	Air bag		see page 77 / 79
1222	Locking screw		02.5025.56.11 M 10 x 50
1224	Locking screw		02.5070.95.00 M 16 x 65
1225	Locking screw		02.5026.35.12 M 16 x 45
1513	Hanger bracket		see page 109
1525	Shaped plate		see page 63 - 67
1560	Adjusting plate with welded on torsion protection		
			Solid, screwed supporting arm
			Supporting arm with bump stop
1610	Lifting arm		03.195.01.01.0 L = 605
1615	Support		05.189.15.15.0 B = 146
1222	Locking screw		02.5025.56.11 M 10 x 50
1625	Bump stop		02.3506.07.00

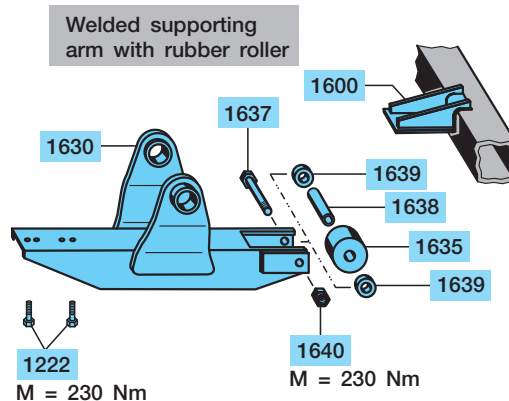
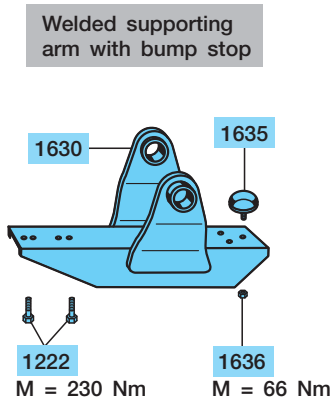
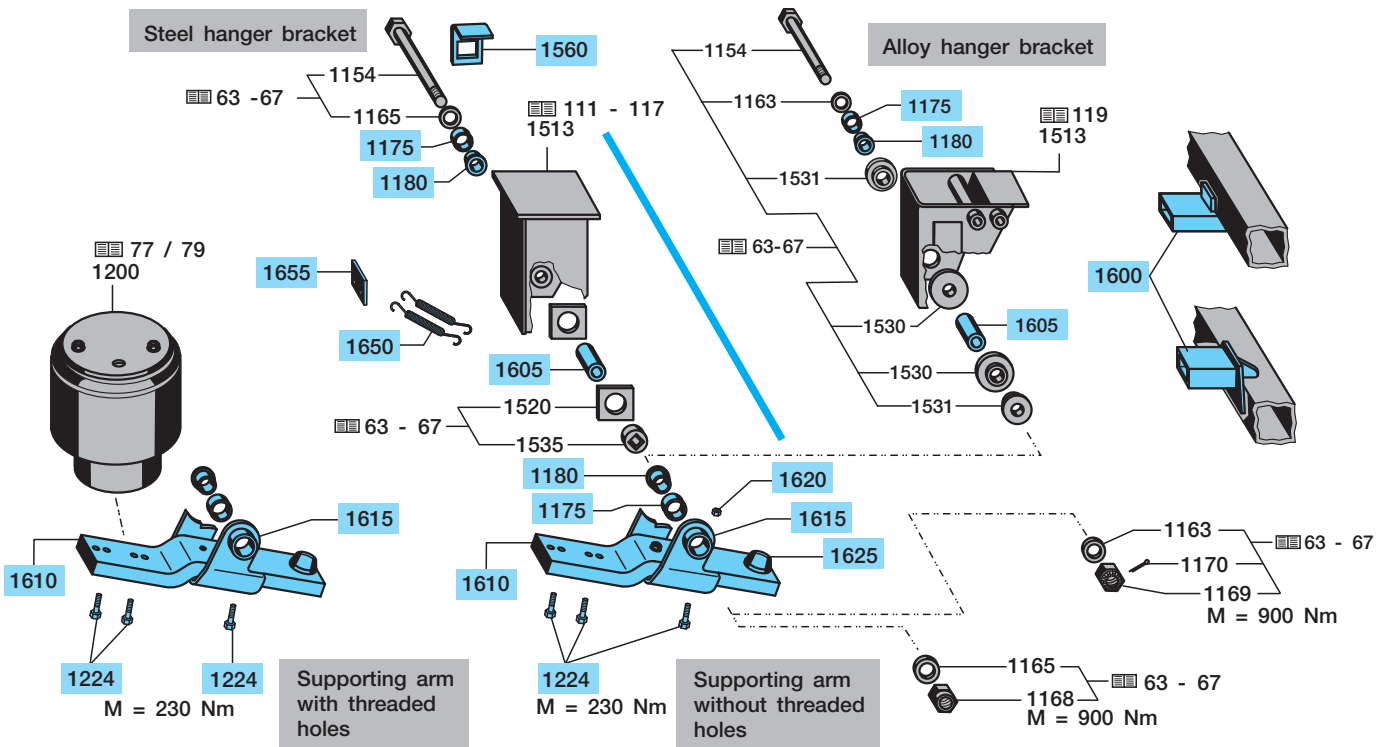
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13.2 Central axle lifts

Central axle lift



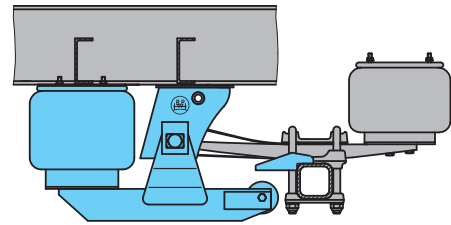
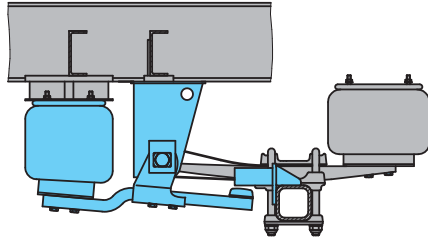
Central axle lift



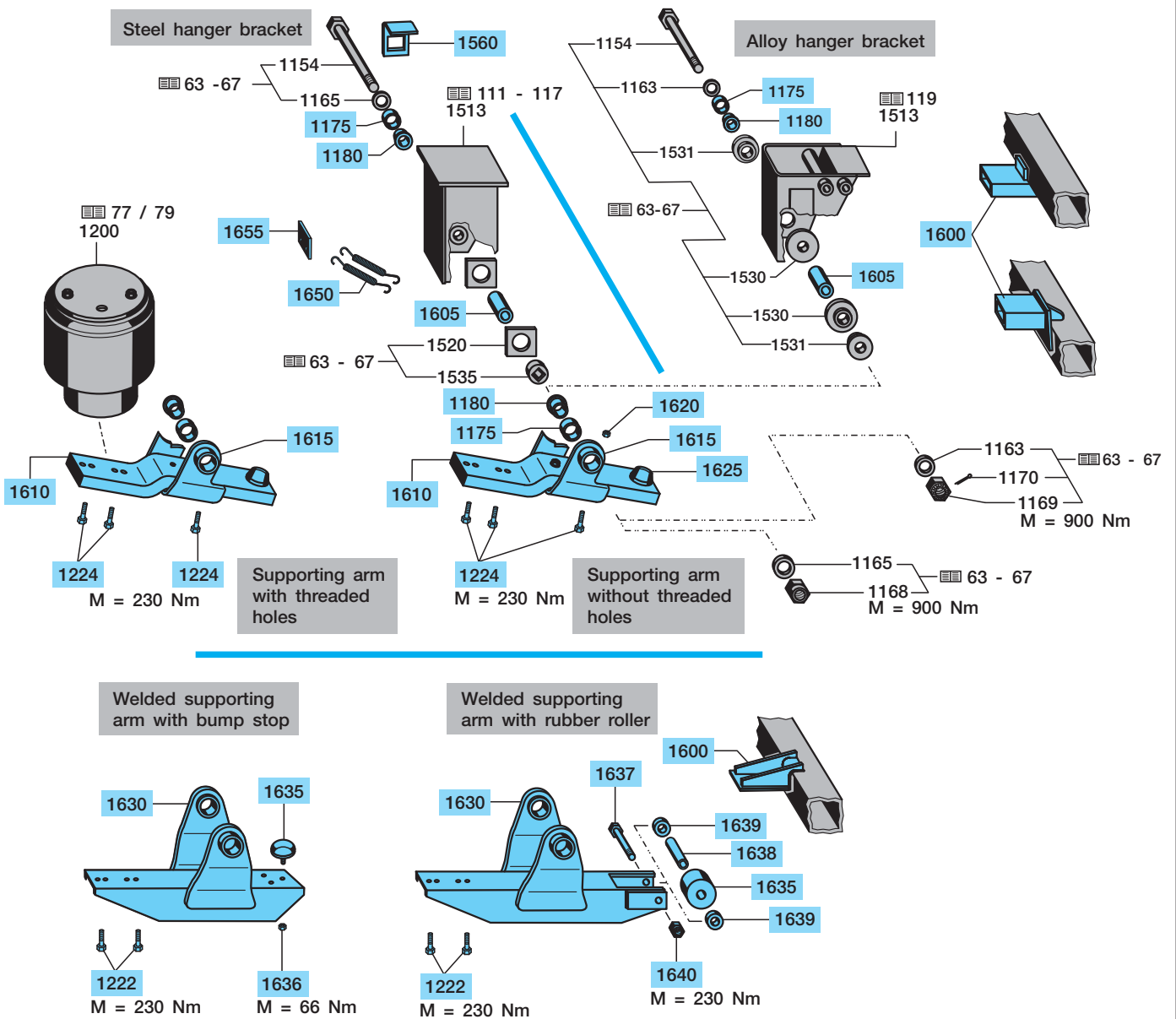
Central axle lift				
Item	Designation	Remark	BPW Code no. Dimensions	BPW Code no. Dimensions
			Steel hanger bracket, torsion protection with square internal lock bush	Alloy hanger bracket
1154	Screw (Spring pivot bolt)		see page 63 - 67	see page 63 - 67
1163	Washer			
1165	Washer			
1168	Lock nut			
1169	Castle nut			
1170	Split pin			
1175	Bush		03.113.94.10.0 Ø 41 / 50 x 23	03.113.94.10.0 Ø 41 / 50 x 23
1180	Graduated bush		03.113.01.29.0 Ø 30 / 40 / 46 x 31	03.113.01.29.0 Ø 30 / 40 / 46 x 31
1200	Air bag		see page 77 / 79	
1222	Locking screw		03.340.12.21.0 M 16 x 30 (for welded supporting arm)	
1224	Locking screw		02.5070.95.00 M 16 x 65 (for solid supporting arm)	
1513	Hanger bracket		see page 111 - 117	see page 119
1560	Shaped plate (welded on torsion protection with steel hanger brackets)		03.161.35.07.0 -	
Supporting arm with bump stop				
			Support above the axle	Support underneath the axle
1600	Support		05.189.06.53.0 □ 120/150, Ø 127 -	05.189.07.31.0 □ 120, Ø 127 05.189.07.32.0 □ 150
Supporting arm with rubber roller				
Support above the axle				
1600	Support		05.189.10.31.0 □ 120/150, Ø 127	
1605	Tube		03.301.74.04.0 Ø 35 / 51 x 102	
Solid, screwed supporting arm				
Supporting arm with bump stop				
1610	Lifting arm		03.195.00.96.0 L = 720	
1615	Support	(for steel hanger bracket)	05.189.12.38.0 B = 166	
		(for steel hanger bracket)	05.189.13.19.0 B = 176	
		(for alloy hanger bracket)	05.189.07.38.0 B = 192.5	
1224	Locking screw		02.5070.95.00 M 16 x 65	
1620	Lock nut *		02.5220.23.82 VM 16 / 980-8	
1625	Bump stop		02.3506.02.00 Ø 80 / M 12	
* for supporting arm without threaded holes.				

13.2 Central axle lifts

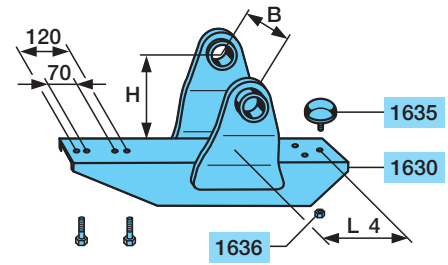
Central axle lift



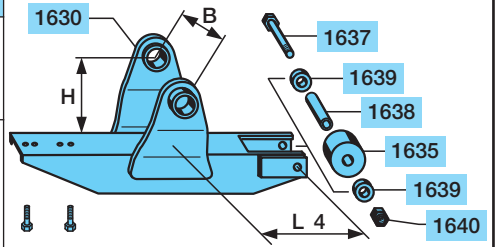
Central axle lift



Central axle lift								
Item	Designation	Remark	BPW Code no.	Dimensions				
			Welded supporting arm with bump stop					
				B	H			
				L 4				
1630	Lever (for steel hanger bracket)		05.190.49.39.0	166	105	280		
			05.190.49.45.0		105	320		
			05.190.49.55.0		120	230		
			05.190.49.56.0		135	280		
			05.190.49.28.0		165	250		
			05.190.49.29.0		165	280		
			05.190.49.30.0		165	320		
			05.190.49.31.0		165	350		
			05.190.49.32.0		165	390		
			05.190.49.62.0		165	470		
			05.190.49.46.0		165	550		
			05.190.49.57.0		185	215		
			Support		05.189.14.83.0	176	55	240
		1630	Lever (for alloy hanger bracket)			05.190.49.63.0	192	105
				05.190.49.49.0	130	240		
	05.190.49.50.0			135	280			
	05.190.49.54.0			135	320			
	05.190.49.47.0			165	250			
	05.190.49.48.0			165	280			
1635	Bump stop		02.3506.01.00	□ 80 / M 12 x 32				
			02.3506.02.00	∅ 80 / M 12				
1636	Lock nut		02.5273.33.80	M 12 - 10				
			Welded supporting arm with rubber roller					
				B	H			
				L 4				
1630	Lever		05.190.49.44.0	176	165	275		
			05.190.49.74.0			380		
			05.190.49.72.0			420		
1635	Roller		03.331.98.01.0	∅ 25.5 / 110 x 70				
1637	Hexagon screw		02.5022.49.86	M 16 x 150-8.8				
1638	Tube		03.300.73.46.0	∅ 17 / 25 x 99				
1639	Ring		03.310.70.13.0	∅ 25.5 / 35 x 14				
1640	Lock nut		02.5220.23.82	VM 16-8				
1650	Return spring		05.397.36.05.0	∅ 3.5 / 23.5 x 250				
1655	Plate		03.281.43.12.0	70 x 70 x 6				

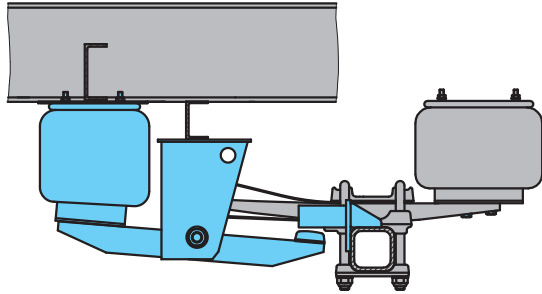


No longer available.
Change over to solid lever (page 145).

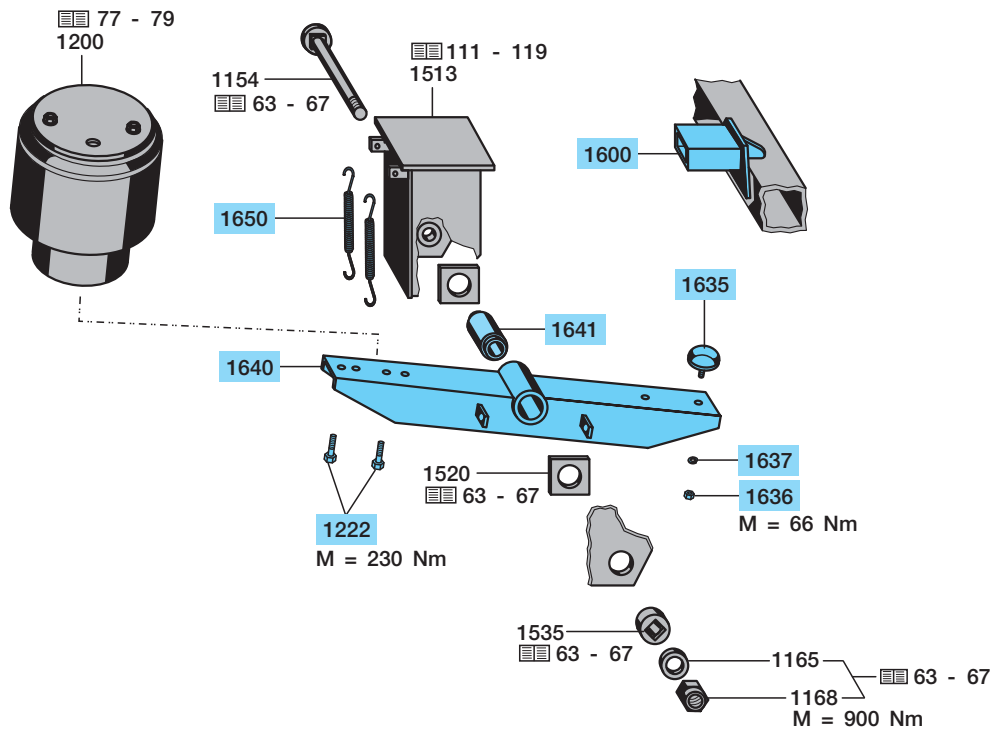


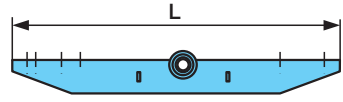
13.2 Central axle lifts

Central axle lift with rubber / steel bush



Central axle lift with rubber / steel bush

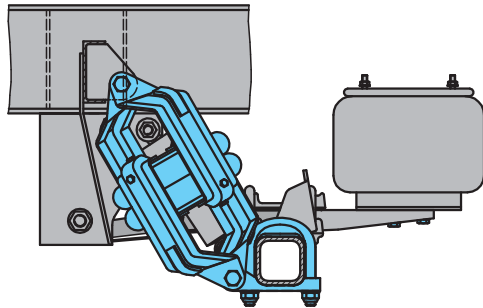


Central axle lift with rubber / steel bush			
Item	Designation	Remark	BPW Code no. Dimensions
			Steel hanger bracket, torsion protection with square internal lock bush
			Alloy hanger bracket
1154	Screw (Spring pivot bolt)		
1165	Washer		
1168	Lock nut		
	Castle nut		
			see page 63 - 67
			see page 63 - 67
1200	Air bag		see page 77 / 79
1222	Locking screw		03.340.12.21.0 M 16 x 30
1513	Hanger bracket		see page 111 - 117
			see page 119
1600	Support		05.189.06.53.0
1635	Bump stop		02.3506.01.00
1636	Lock nut		02.5220.14.82 M 12
1637	Spring washer		02.5403.12.90 B 12 / 137
1640	Lever (incl. item 1641)		05.190.49.36.0 L 880 05.190.49.53.0 L 1050
1641	Bush		02.0316.06.00 Ø 30 / 60 x 102
			
1650	Return spring		05.397.36.05.0 Ø 3.5 / 23.5 x 250

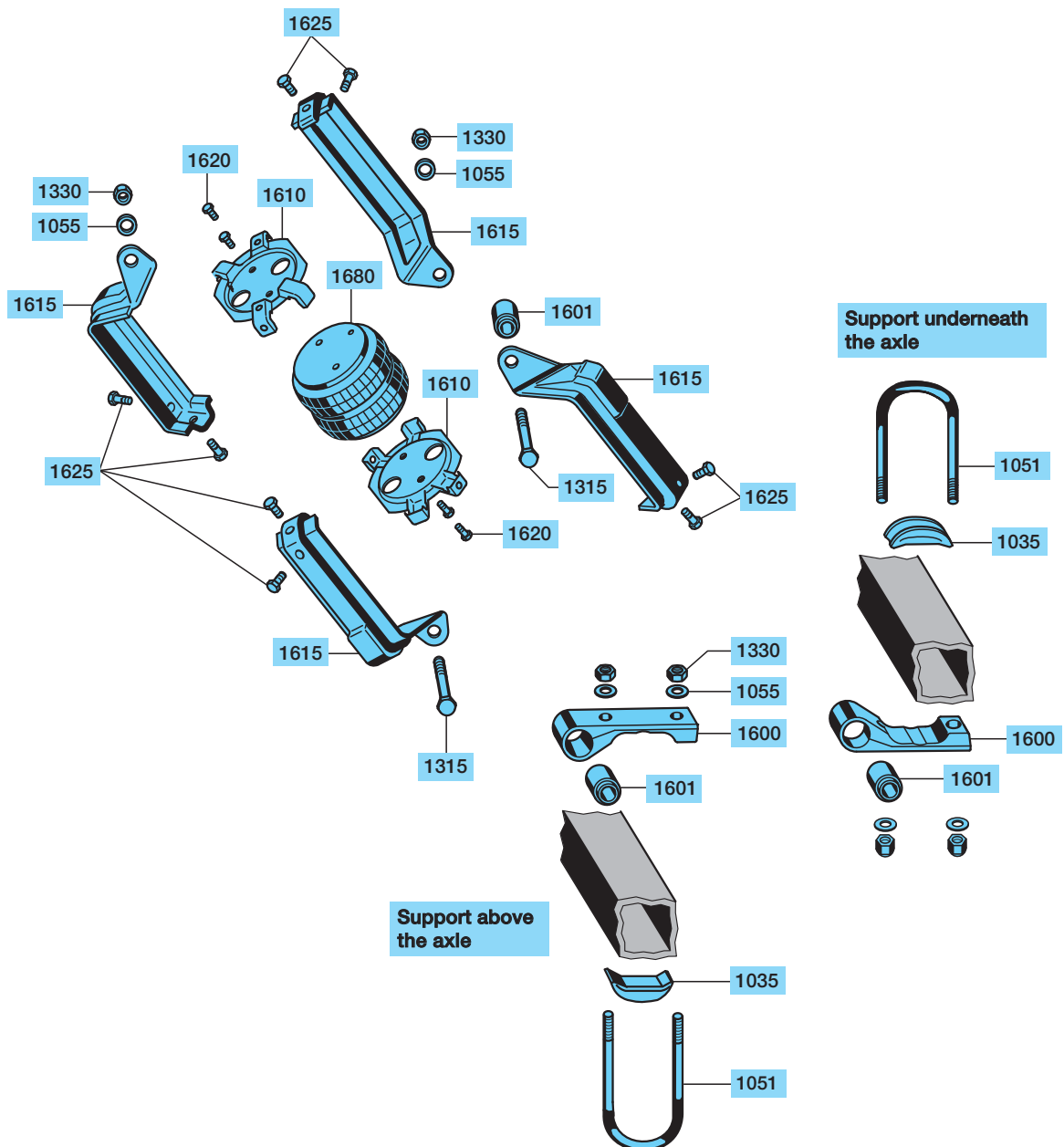
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13.2 Central axle lifts

Central axle lift



Central axle lift



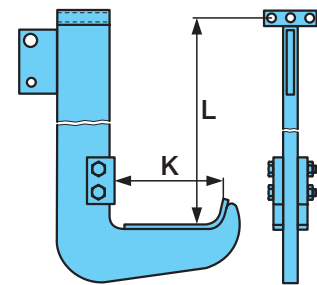
Central axle lift				
Item	Designation	Remark	BPW Code no.	Dimensions
1035	Segment		03.345.23.02.1	for □ 120
1051	Spring U-bolt		03.138.41.31.4	for □ 120
1055	Washer		02.5401.25.07	Ø 25 / 125
1315	Hexagon screw		02.5023.29.82	M 24 x 120 / 931
1330	Lock nut		02.5220.74.12	VM 24 / 980-10
1600	Support (incl. item 1601)		05.189.13.28.0	for □ 120
1601	Bush		05.113.90.06.0	Ø 24 / 50 x 68
1610	Shaped plate		05.165.37.45.0	
1615	Shaped plate		05.165.49.44.0	
1620	Locking screw		02.5070.93.02	M 8 x 12 (4x)
1625	Locking screw		02.5070.63.02	M 10 x 25 (8x)
1680	Air bag		02.2002.19.00	

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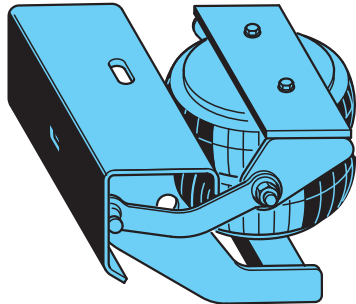
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Axle lift (central) with lever				
Item	Designation	Remark	BPW Code no.	Dimensions
1605	Profile		05.445.46.....	Model no longer available, for further information contact BPW.
1610	Support		05.189.05.80.0	
1635	Bump stop		03.060.02.12.0	
1636	Hexagon screw		02.5021.45.80	M 10 x 55 / 933-8.8
1637	Lock nut		02.5220.10.82	VM 10 / 980-10
			K	L
1640	Lever		05.190.45.03.1	167
			05.190.45.24.1	220
			05.190.45.28.1	240
		142	05.190.45.12.1	272
			05.190.45.07.1	359
			05.190.45.20.1	372
			05.190.45.05.1	417
			05.190.45.19.1	272
			05.190.45.22.1	295
			05.190.45.18.1	337
		164	05.190.45.14.1	372
			05.190.45.16.1	397
			05.190.45.10.1	417
			05.190.45.09.1	490
1641	Bush		03.113.98.06.0	∅ 50 / 90 x 94
1642	Shaped plate		03.160.56.01.0	
1643	Grease nipple		02.6802.03.50	
1645	Hexagon screw		02.5021.54.10	M 10 x 110 / 931
1650	Return spring		05.397.26.02.0	
1660	Brake cylinder		02.0329.27.00	
1662	Spring washer		02.5601.12.90	A 12 / 127
1663	Hexagon nut		02.5202.16.80	M 12 / 934-8
1665	Hexagon nut		02.5205.08.04	M 16 x 1.5 / 936
1666	Yoke		02.1201.13.00	G 16 x 32
1667	Bolt		02.5826.50.15	16 x 45 x 37
1668	Split pin		02.6201.41.01	4 x 25
1670	Plate		03.285.64.27.0	
1672	Threaded bolt		03.177.43.06.0	M 20 / □ 40 / M 20 x 79
1674	Ring		03.310.80.04.0	∅ 24.5 / 33.5 x 11
1676	Washer		03.320.32.28.0	∅ 21 / 51 x 4
1678	Lock nut		03.260.03.12.0	M 20 - 10
1680	Air bag (incl. item 1682 - 1686)		05.429.00.01.0	
1682	Ring		03.310.09.26.0	
1684	Ring		03.310.19.26.0	
1686	Air bag (only)		02.2002.05.00	
1688	Washer		03.320.69.11.0	∅ 205 x 8
1690	Spring washer		02.5403.08.92	B 8 (24x)
1691	Hexagon screw		02.5025.28.82	M 8 x 20 - 8.8 (8x)
1692	Hexagon screw		02.5025.31.80	M 8 x 30 - 8.8 (4x)
1693	Hexagon screw		02.5025.32.80	M 8 x 28 - 8.8 (12x)

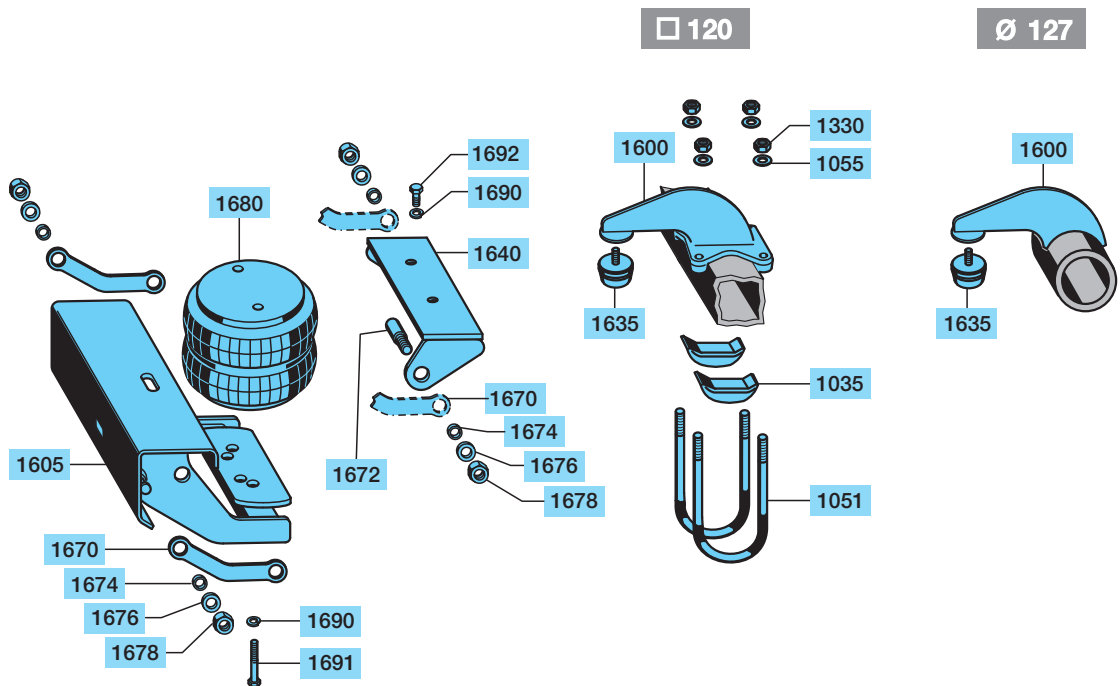


13.2 Central axle lifts

Central axle lift with support



Central axle lift with support



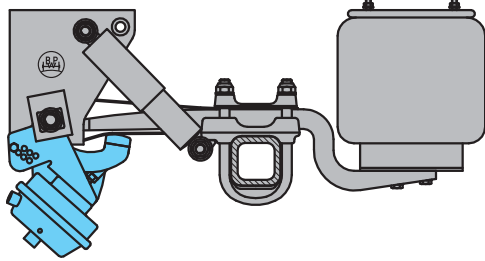
Central axle lift with support

Item	Designation	Remark	BPW Code no. Dimensions			BPW Code no. Dimensions		
			□ 120			Ø 127		
1035	Segment		03.345.23.02.1			-		
1051	Spring U-bolt		03.138.41.31.4			-		
1055	Washer		02.5401.25.07 Ø 25 / 125			-		
1330	Lock nut		02.5220.74.12 VM 24 / 980			-		
				A	B		A	B
1600	Support (incl. item 1635)		05.189.12.32.0	255	152	05.189.12.40.0	255	167
			05.189.12.15.0	255	215	05.189.12.17.0	255	254
			05.189.12.25.0	255	275	05.189.12.35.0	255	305
			05.189.13.04.0	255	298	05.189.12.73.0	265	202
1605	Integrated supports (incl. item 1672)		upon request					
1635	Bump stop		02.3506.02.00	Ø 80 / M 12				
1640	Support		05.189.11.59.0					
1670	Lever		03.190.08.02.0					
1672	Threaded bolt		03.177.33.14.0 M 20 / Ø 24 x 56					
1674	Ring		03.310.80.04.0 Ø 24.5 / 33.5 x 11					
1676	Washer		03.320.32.28.0 Ø 21 / 51 x 4					
1678	Lock nut		03.260.03.12.0 M 20 - 10					
1680	Air bag		02.2002.18.00					
1690	Spring washer		02.5403.08.92 B 8 / 137					
1691	Hexagon screw		02.5021.26.80 M 8 x 55 / 933-8.8					
1692	Hexagon screw		02.5025.29.80 M 8 x 22 / 933-8.8					

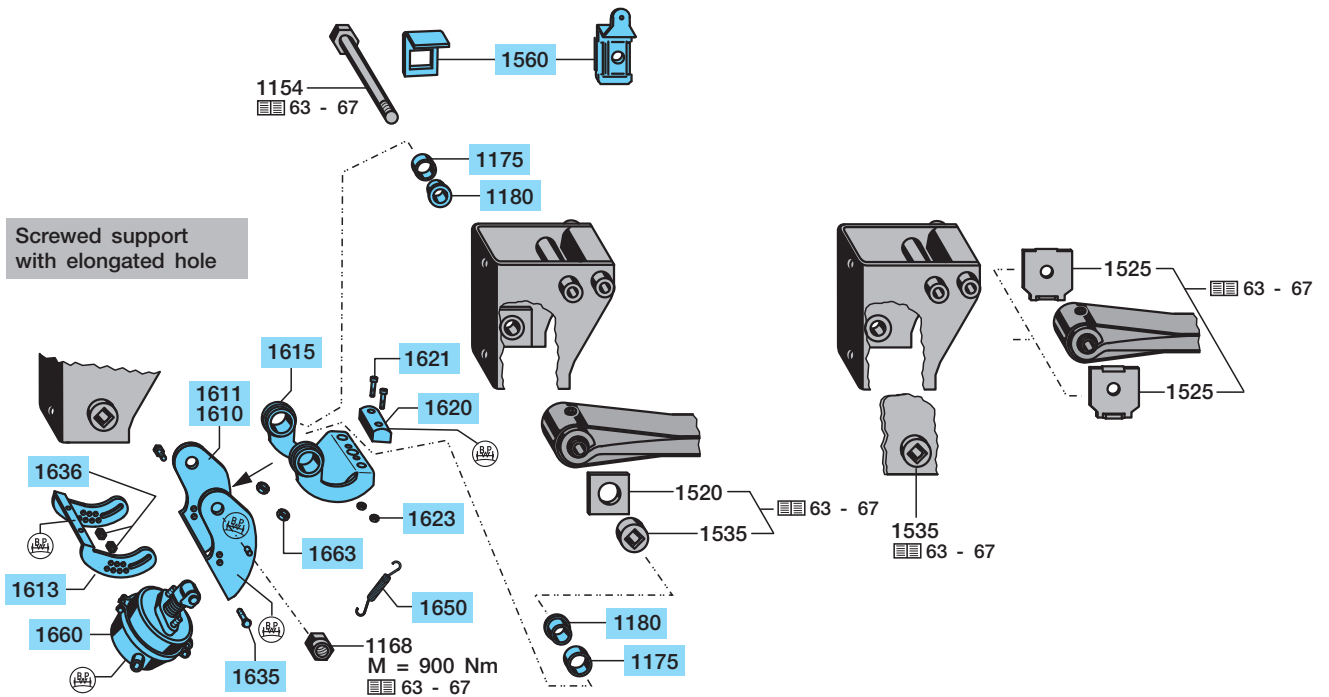
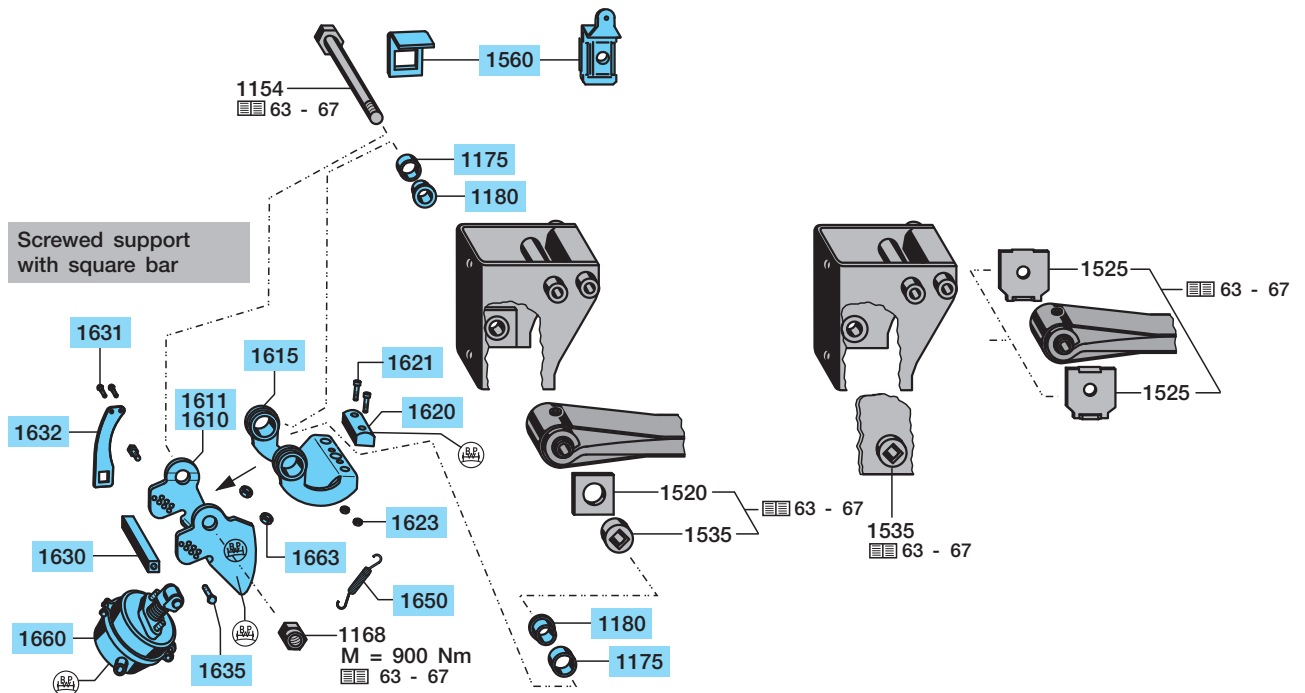
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13.3 Two-side axle lifts

Two-side axle lift, steel hanger bracket with unadjustable spring pivot bolt bearing



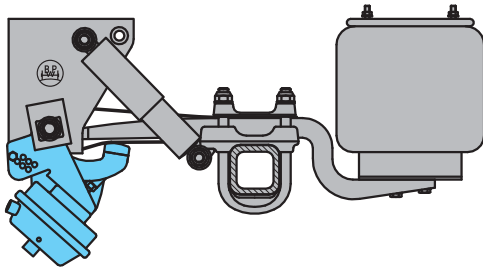
Two-side axle lift



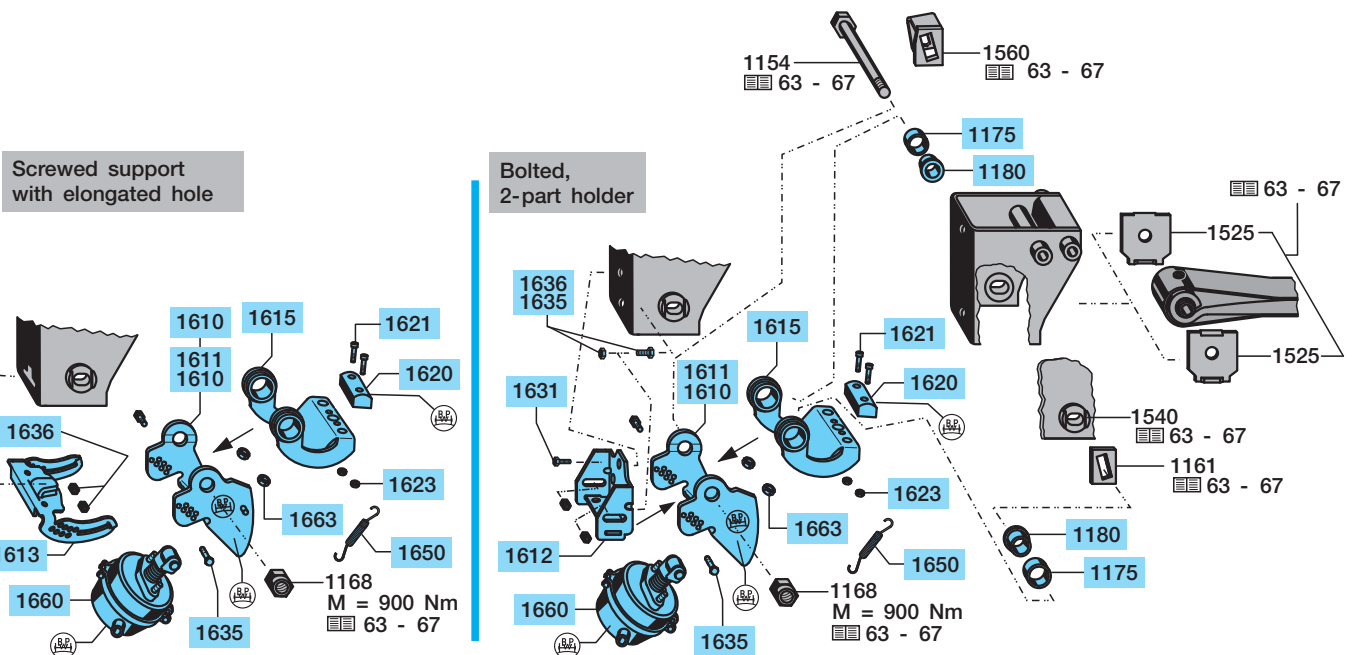
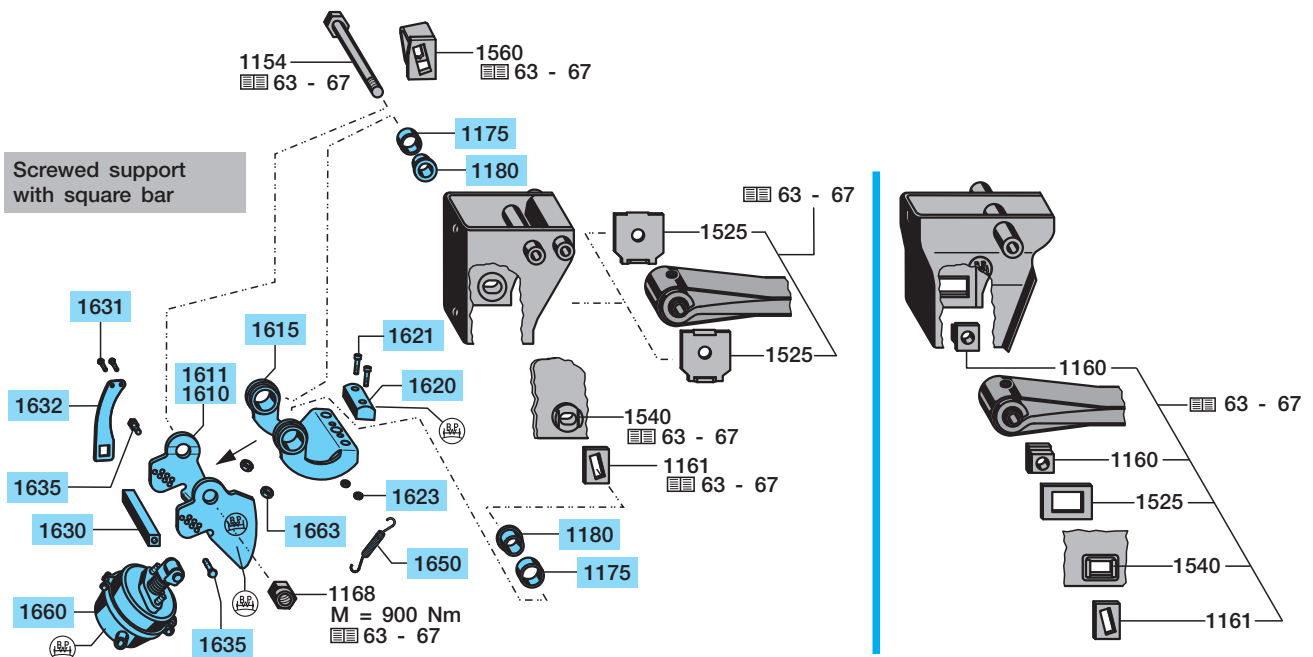
Two-side axle lift, steel hanger bracket with unadjustable spring pivot bolt bearing			
Item	Designation	Remark	BPW Code no. Dimensions
Trailing arms 100 mm wide			
1154	Screw (Spring pivot bolt)		
1163	Washer		
1165	Washer		
1168	Lock nut		
			see page 63 - 67
1175	Bush		03.113.04.11.0 Ø 42 / 50 / 54 x 17.5
1180	Graduated bush		03.113.01.37.0 Ø 30 / 42 / 62 x 22
1560	Shaped plate (welded on torsion protection)		03.161.35.07.0 for SW 46
	Shaped part (screwed on torsion protection)		03.001.14.88.0 for SW 46
		Screwed support with square bar	Screwed support with elongated hole
1609	Retrofit kit two-side axle lift (Item 1610, 1611, 1615, 1660)		09.801.02.89.0 Contents per axle
1610	Support, right		03.189.14.22.0
1611	Support, left		03.189.14.21.0
1613	Support with elongated hole		-
1615	Lever		05.190.44.14.0
1620	Bump stop		02.3506.06.00 90 x 60 x 25
1621	Cylinder head screw		02.5015.04.80 M 6 x 25
1623	Lock nut		02.5220.07.82 VM 6 / 980-8
1630	Square bar		03.441.01.18.0 □ 25 x 205
1631	Locking screw		02.5071.37.00 M 8 x 45
1632	Plate		03.285.46.26.0
1635	Locking screw		02.5071.53.11 M 12 x 30
1636	Lock nut		-
			02.5071.53.11 M 12 x 30
			02.5220.14.82 VM 12 / 980-8
1650	Return spring		03.397.26.07.0 Ø 22.5 / 2.5 x 99
1660	Diaphragm cylinder for axle lift		05.444.10.37.0 Type 36, Stroke > 90 mm
1663	Hexagon nut		02.5202.21.80 M 16 x 1.5
See pages 168 / 169 for assembly and installation instructions.			

13.3 Two-side axle lifts

Two-side axle lift, steel hanger bracket with adjustable spring pivot bolt bearing



Two-side axle lift

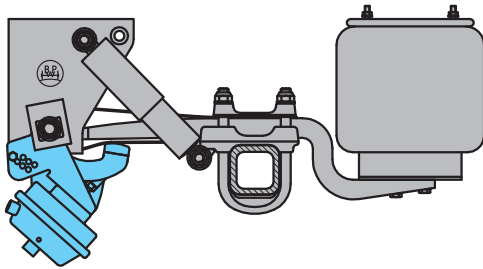


Two-side axle lifts 13.3

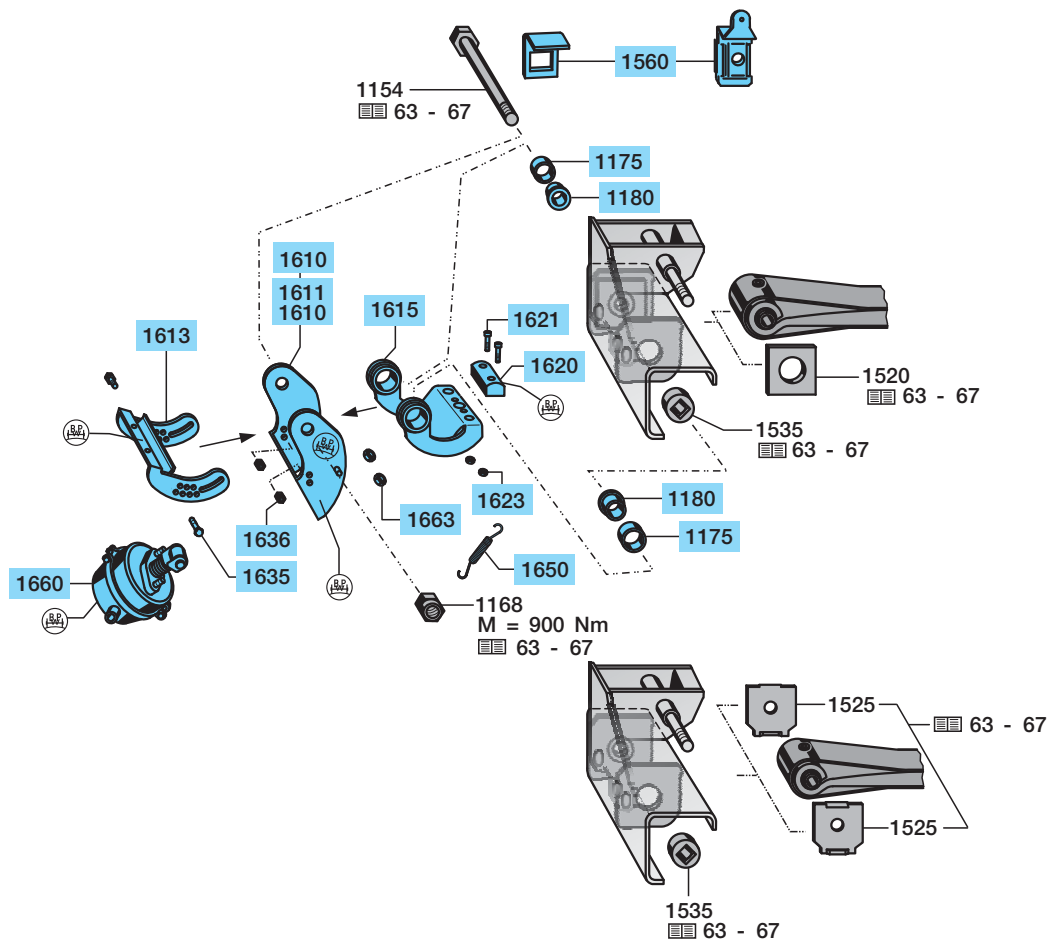
Two-side axle lift, steel hanger bracket with adjustable spring pivot bolt bearing			
Item	Designation	Remark	BPW Code no. Dimensions
			Trailing arm 70 mm wide
			Trailing arm 100 mm wide
1154	Screw (Spring pivot bolt)		
1161	Plate (adjusting plate)		
1163	Washer	see page 63 - 67	see page 63 - 67
1165	Washer		
1168	Lock nut		
1175	Bush	03.113.04.11.0	Ø 42 / 50 / 54 x 17.5
1180	Graduated bush	03.113.01.37.0	Ø 30 / 42 / 62 x 22
1525	Shaped plate		
1560	Shaped plate (welded on torsion protection) Adjusting plate with welded on torsion protection	see page 63 - 67	see page 63 - 67
			Screwed support with square bar, trailing arm 100 mm wide
			Screwed support with elongated hole, trailing arm 100 mm wide
1609	Retrofit kit two-side axle lift (Item 1610, 1611, 1615, 1660)	09.801.02.89.0	Contents per axle
1610	Support, right	03.189.14.22.0	05.189.14.26.0
1611	Support, left	03.189.14.21.0	05.189.14.27.0
1613	Support	-	05.189.14.28.0 (for steel hanger bracket)
			Screwed support with elongated hole, trailing arm 70 mm wide
1610	Shaped plate	03.165.46.52.0	
1613	Shaped plate	05.165.46.57.0	(for steel hanger bracket)
			Bolted, 2-part holder, trailing arm 70 mm wide
			Screwed support with square bar, trailing arm 100 mm wide
1610	Support, right	03.189.14.98.0	03.189.15.36.0
1611	Support, left	03.189.14.97.0	03.189.15.37.0
1612	Support	03.189.14.96.0	
			Trailing arm 70 mm wide
			Trailing arm 100 mm wide
1615	Lever	05.190.44.12.0	05.190.44.14.0
1620	Bump stop	02.3506.06.00	90 x 60 x 25
1621	Cylinder head screw	02.5015.04.80	M 6 x 25
1623	Lock nut	02.5220.07.82	VM 6 / 980-8
			Screwed support with elongated hole
			Screwed support with square bar
1630	Square bar	-	03.441.01.18.0 □ 25 x 205
		-	03.441.01.19.0 □ 25/35 x 205
1631	Locking screw	-	02.5071.37.00 M 8 x 45
1632	Plate	-	03.285.46.26.0 for □ 25
		-	03.285.36.07.0 for □ 25/35
1635	Locking screw	02.5071.53.11	M 12 x 30
1636	Lock nut	02.5220.14.82	VM 12 / 980-8
1650	Return spring	03.397.26.07.0	Ø 22.5 / 2.5 x 99
1660	Diaphragm cylinder for axle lift	05.444.10.37.0	Type 36, Stroke > 90 mm
1663	Hexagon nut	02.5202.21.80	M 16 x 1.5
See pages 168 / 169 for assembly and installation instructions.			

13.3 Two-side axle lifts

Two-side axle lift, integrated support with unadjustable spring pivot bolt bearing



Two-side axle lift

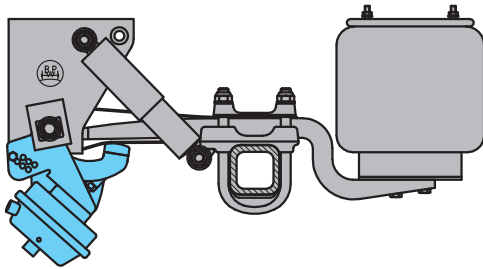


Two-side axle lift, integrated support with unadjustable spring pivot bolt bearing			
Item	Designation	Remark	BPW Code no. Dimensions
			Trailing arms 100 mm wide
1154	Screw (Spring pivot bolt)		
1163	Washer		
1165	Washer		
1168	Lock nut		
			see page 63 - 67
1175	Bush		03.113.04.11.0 \varnothing 42 / 50 / 54 x 17.5
1180	Graduated bush		03.113.01.37.0 \varnothing 30 / 42 / 62 x 22
1560	Shaped plate (welded on torsion protection)		03.161.35.07.0 for SW 46
	Shaped part (screwed on torsion protection)		03.001.14.88.0 for SW 46
			Screwed support with elongated hole
1610	Support, right		05.189.14.26.0
1611	Support, left		05.189.14.27.0
1613	Support with elongated hole		05.189.14.25.0
1615	Lever		05.190.44.14.0
1620	Bump stop		02.3506.06.00 90 x 60 x 25
1621	Cylinder head screw		02.5015.04.80 M 6 x 25
1623	Lock nut		02.5220.07.82 VM 6 / 980-8
1635	Locking screw		02.5071.53.11 M 12 x 30
1636	Lock nut		02.5220.14.82 VM 12 / 980-8
1650	Return spring		03.397.26.07.0 \varnothing 22.5 / 2.5 x 99
1660	Diaphragm cylinder for axle lift		05.444.10.37.0 Type 36, Stroke > 90 mm
1663	Hexagon nut		02.5202.21.80 M 16 x 1.5
See pages 168 / 169 for assembly and installation instructions.			

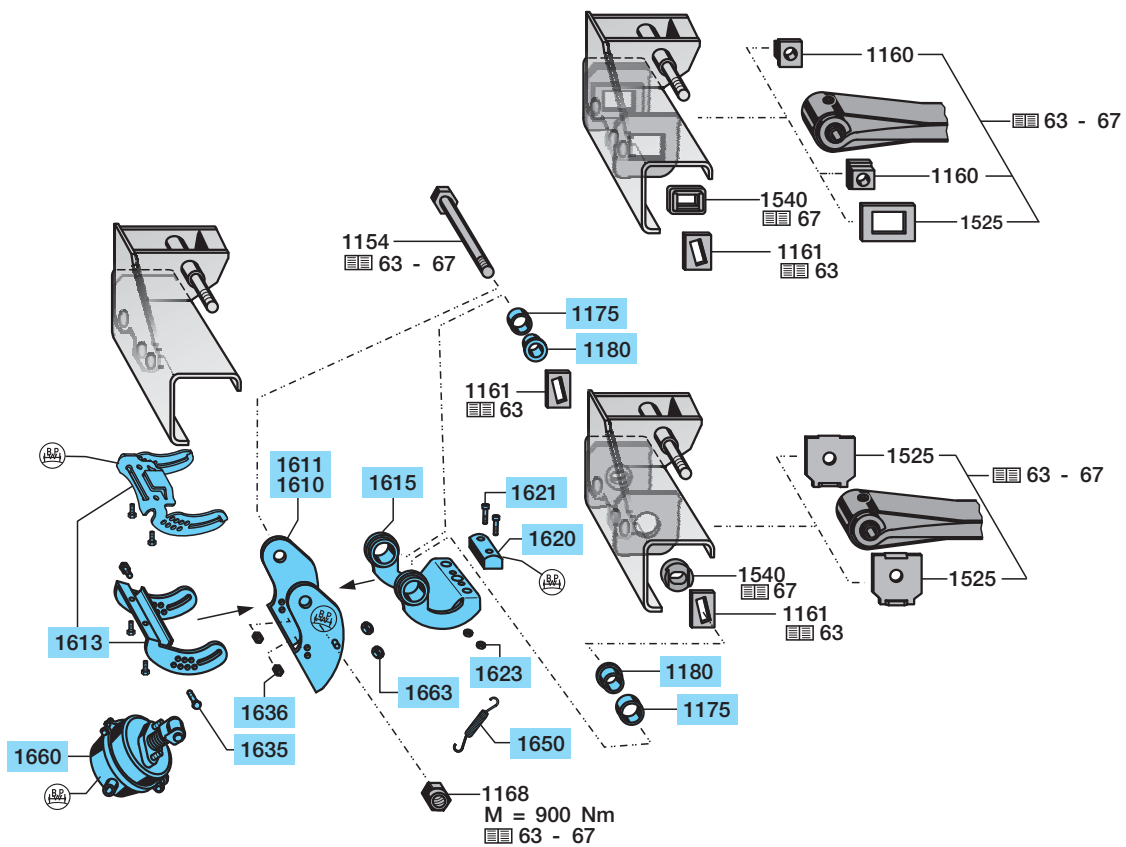
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13.3 Two-side axle lifts

Two-side axle lift, integrated support with adjustable spring pivot bolt bearing



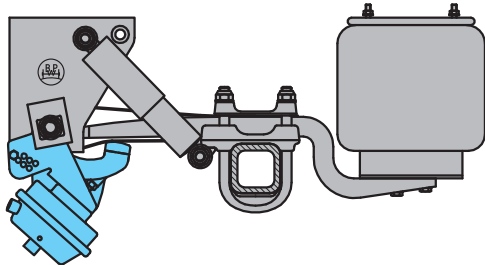
Two-side axle lift



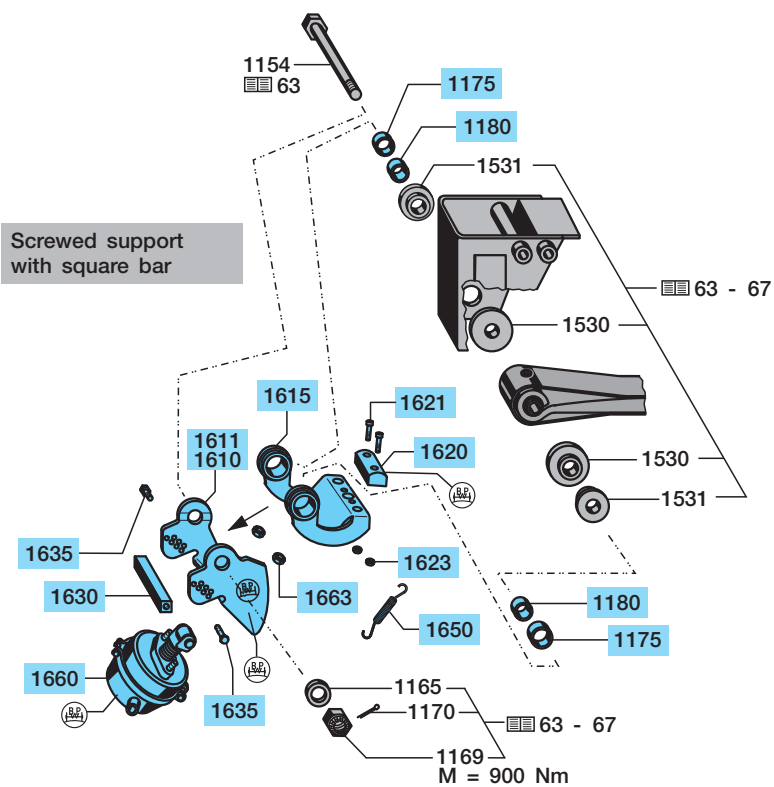
Two-side axle lift, integrated support with adjustable spring pivot bolt bearing			
Item	Designation	Remark	BPW Code no. Dimensions
			Trailing arm 70 mm wide
			Trailing arm 100 mm wide
1154	Screw (Spring pivot bolt)		
1161	Plate (adjusting plate)		
1163	Washer	see page 63 - 67	see page 63 - 67
1165	Washer		
1168	Lock nut		
1175	Bush	03.113.04.11.0	Ø 42 / 50 / 54 x 17.5
1180	Graduated bush	03.113.01.37.0	Ø 30 / 42 / 62 x 22
1525	Shaped plate	see page 63 - 67	see page 63 - 67
			Screwed support with elongated hole, trailing arm 100 mm wide
1610	Support, right	05.189.14.26.0	
1611	Support, left	05.189.14.27.0	
1613	Support	05.189.14.25.0	(for integrated supports)
			Screwed support with elongated hole, trailing arm 70 mm wide
1610	Shaped plate	03.165.46.52.0	
1613	Shaped plate	03.165.46.53.0	(for integrated supports)
			Trailing arm 70 mm wide
			Trailing arm 100 mm wide
1615	Lever	05.190.44.12.0	05.190.44.14.0
1620	Bump stop	02.3506.06.00	90 x 60 x 25
1621	Cylinder head screw	02.5015.04.80	M 6 x 25
1623	Lock nut	02.5220.07.82	VM 6 / 980-8
			Screwed support with elongated hole
1635	Locking screw	02.5071.53.11	M 12 x 30
1636	Lock nut	02.5220.14.82	VM 12 / 980-8
1650	Return spring	03.397.26.07.0	Ø 22.5 / 2.5 x 99
1660	Diaphragm cylinder for axle lift	05.444.10.37.0	Type 36, Stroke > 90 mm
1663	Hexagon nut	02.5202.21.80	M 16 x 1.5
See pages 168 / 169 for assembly and installation instructions.			

13.3 Two-side axle lifts

Two-side axle lift, alloy hanger bracket with unadjustable spring pivot bolt bearing



Two-side axle lift

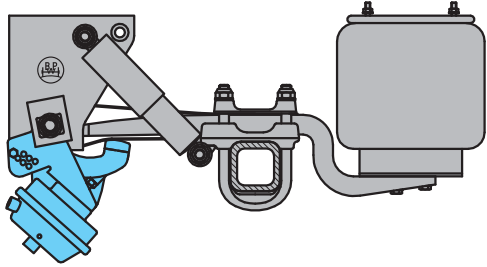


Two-side axle lift, alloy hanger bracket with unadjustable spring pivot bolt bearing			
Item	Designation	Remark	BPW Code no. Dimensions
Trailing arms 100 mm wide			
1154	Screw (Spring pivot bolt)		
1163	Washer		
1165	Washer		
1169	Castle nut		
1170	Split pin		
		see page 63 - 67	
1175	Ring		03.310.92.09.0 Ø 42 / 50 x 15
1180	Bush		03.112.13.12.0 Ø 30 / 42 x 16
Screwed support with square bar			
1609	Retrofit kit two-side axle lift (Item 1610, 1611, 1615, 1660)		09.801.02.89.0 Contents per axle
1610	Support, right		03.189.14.22.0
1611	Support, left		03.189.14.21.0
1615	Lever		05.190.44.14.0
1620	Bump stop		02.3506.06.00 90 x 60 x 25
1621	Cylinder head screw		02.5015.04.80 M 6 x 25
1623	Lock nut		02.5220.07.82 VM 6 / 980-8
1630	Square bar		03.441.01.18.0 □ 25 x 205
1635	Locking screw		02.5071.53.11 M 12 x 30
1650	Return spring		03.397.26.07.0 Ø 22.5 / 2.5 x 99
1660	Diaphragm cylinder for axle lift		05.444.10.37.0 Type 36, Stroke > 90 mm
1663	Hexagon nut		02.5202.21.80 M 16 x 1.5
See pages 168 / 169 for assembly and installation instructions.			

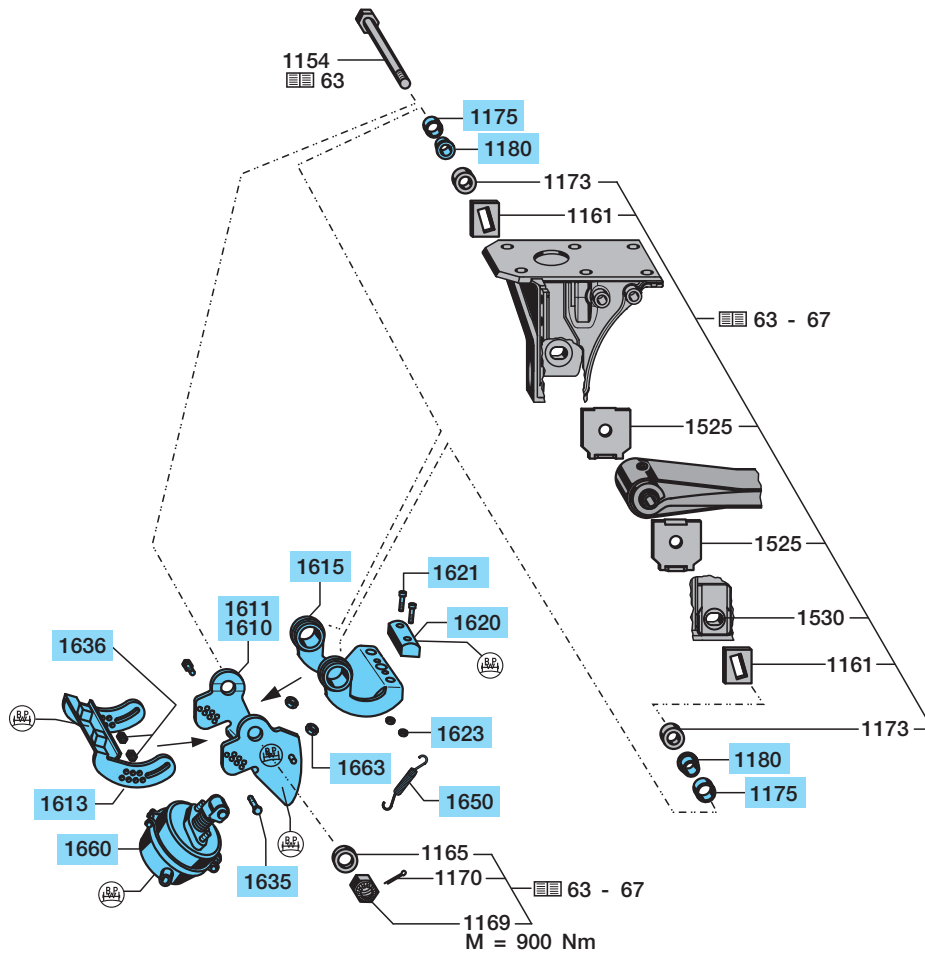
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13.3 Two-side axle lifts

Two-side axle lift, alloy hanger bracket with adjustable spring pivot bolt bearing



Two-side axle lift

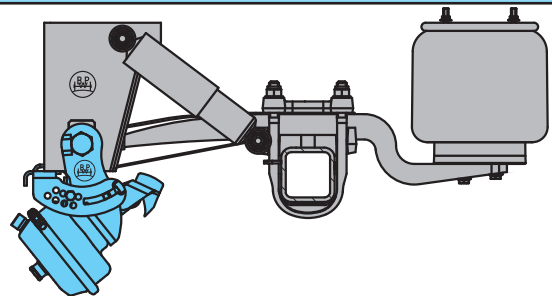
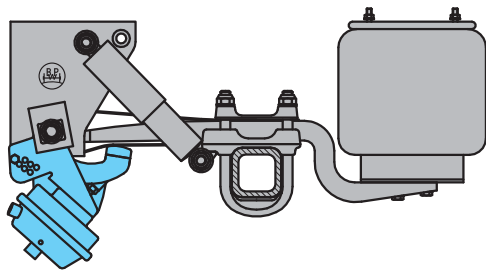


Two-side axle lift, alloy hanger bracket with adjustable spring pivot bolt bearing			
Item	Designation	Remark	BPW Code no. Dimensions
			Trailing arm 70 mm wide
1154	Screw (Spring pivot bolt)		see page 63 - 67
1161	Plate (adjusting plate)		
1163	Washer		
1165	Washer		
1169	Castle nut		
1170	Split pin		
1173	Washer		
1175	Bush		03.113.04.11.0 \varnothing 42 / 50 / 54 x 17.5
1180	Graduated bush		03.113.01.37.0 \varnothing 30 / 42 / 62 x 22
1525	Shaped plate		see page 85
			Screwed support with elongated hole, trailing arm 70 mm wide
1610	Support, right		05.189.14.26.0
1611	Support, left		05.189.14.27.0
1613	Support		05.189.15.13.0 (for alloy hanger bracket)
1615	Lever		05.190.44.14.0
1620	Bump stop		02.3506.06.00 90 x 60 x 25
1621	Cylinder head screw		02.5015.04.80 M 6 x 25
1623	Lock nut		02.5220.07.82 VM 6 / 980-8
			Screwed support with elongated hole
1635	Locking screw		02.5071.53.11 M 12 x 30
1636	Lock nut		02.5220.14.82 VM 12 / 980-8
1650	Return spring		03.397.26.07.0 \varnothing 22.5 / 2.5 x 99
1660	Diaphragm cylinder for axle lift		05.444.10.37.0 Type 36, Stroke > 90 mm
1663	Hexagon nut		02.5202.21.80 M 16 x 1.5
See pages 168 / 169 for assembly and installation instructions.			

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13.3 Two-side axle lifts

Two-sided axle lift, installation notes



General

The BPW two-sided axle lift is suitable for the following axles and air suspension systems:

- 9 t air-suspension axles for single and twin wheels
- 10 t air-suspension axles with single wheels, **not however** for axles with greater permitted axle loads or for steering axles
- Air suspension systems with air bag types 30K, 30, 36K, 36 for spring deflections up to 220 mm, **not however** for long-travel air suspension systems with bag types 30-1, 36-1, 36-2, 36-5

The two-sided axle lift is fitted underneath the air suspension hanger brackets of the axle to be lifted. Please bear in mind the following points when using them:

- In air suspension systems with raising and lowering, the downward travel of the axles must be limited.
The travel limitation can take the form of an air suspension valve with integrated level restriction, a separate shut-off valve or of catch straps.
The stroke limiting function must be set so that the axle lift cannot be overloaded at maximum lift.
- The ride height of the air suspension must be set to a min. upward travel of 100 mm.
When the axle is lifted, the tyre damping results in a clearance of approx. 60 mm under the tyres.
- Make sure there is adequate ground clearance below the axle lift, in particular in air suspension systems with trailing arms located underneath to give a low vehicle height.
- Make sure the right and left sides of one hanger bracket have a symmetrical setting of the sliding blocks.
- After mounting the axle lift, check it functions correctly and that there is adequate clearance from the adjacent components.
- An air pressure of at least 6 bar is required to lift the axle.
- The permitted operating pressure is 8.5 bar.
There is no need for a pressure control valve or a residual pressure holding feature.
Free cylinder venting through cross sections without throttle points in the valve installation must be ensured in order to avoid impermissibly high pressure values.
- Comply with the appropriate statutory regulations when retrofitting an axle lift (e.g. overload protection, German "BO-Kraftkreis", etc.).

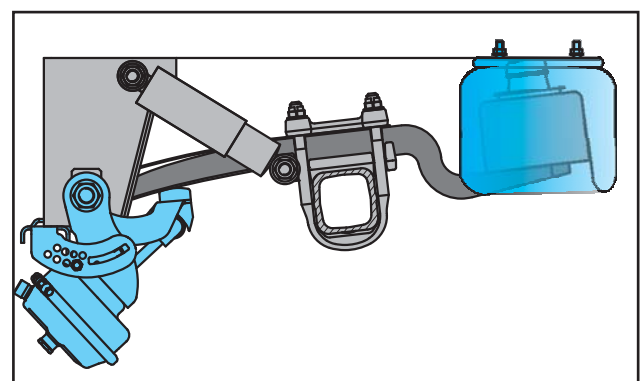
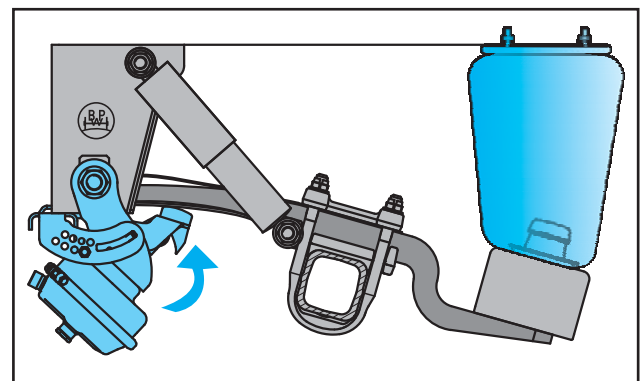
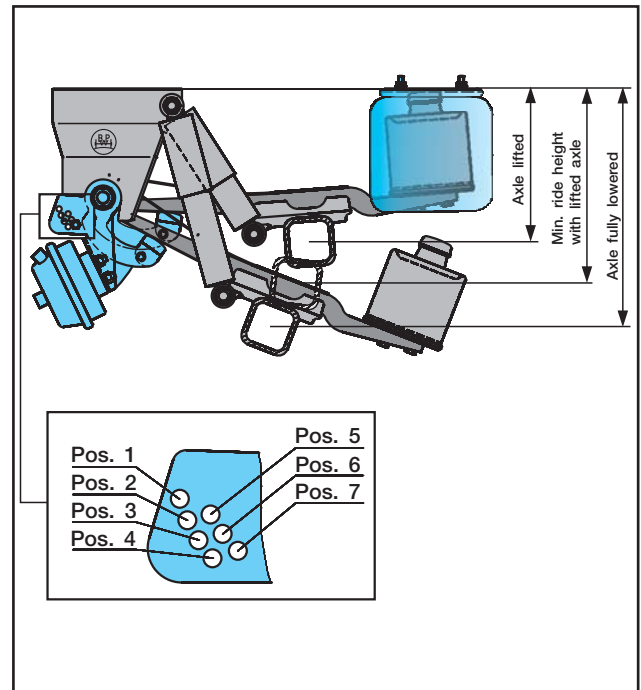
Two-sided axle lift, installation notes

Perform the following installation steps when retrofitting the two-sided axle lift:

- Take the load off the lifting axle.
- Unscrew the spring bolt (M 30) and remove it.
- Install the two-sided axle lift as described in the supplied installation instructions. When doing this, only fit the spring bolts loose and do not tighten them yet.
- Install the diaphragm cylinder with the air connection upwards (M = 180 Nm).
- Fit plastic plugs into the diaphragm cylinder so the bottom hole is open whilst the top hole is tightly closed.
- Install the bump stop under the air suspension hanger bracket (channel crossmember) in the position provided for the air suspension (M = 66 Nm). Refer to the technical documents for the corresponding position.

Proceed as follows if you do not have the corresponding technical documents:

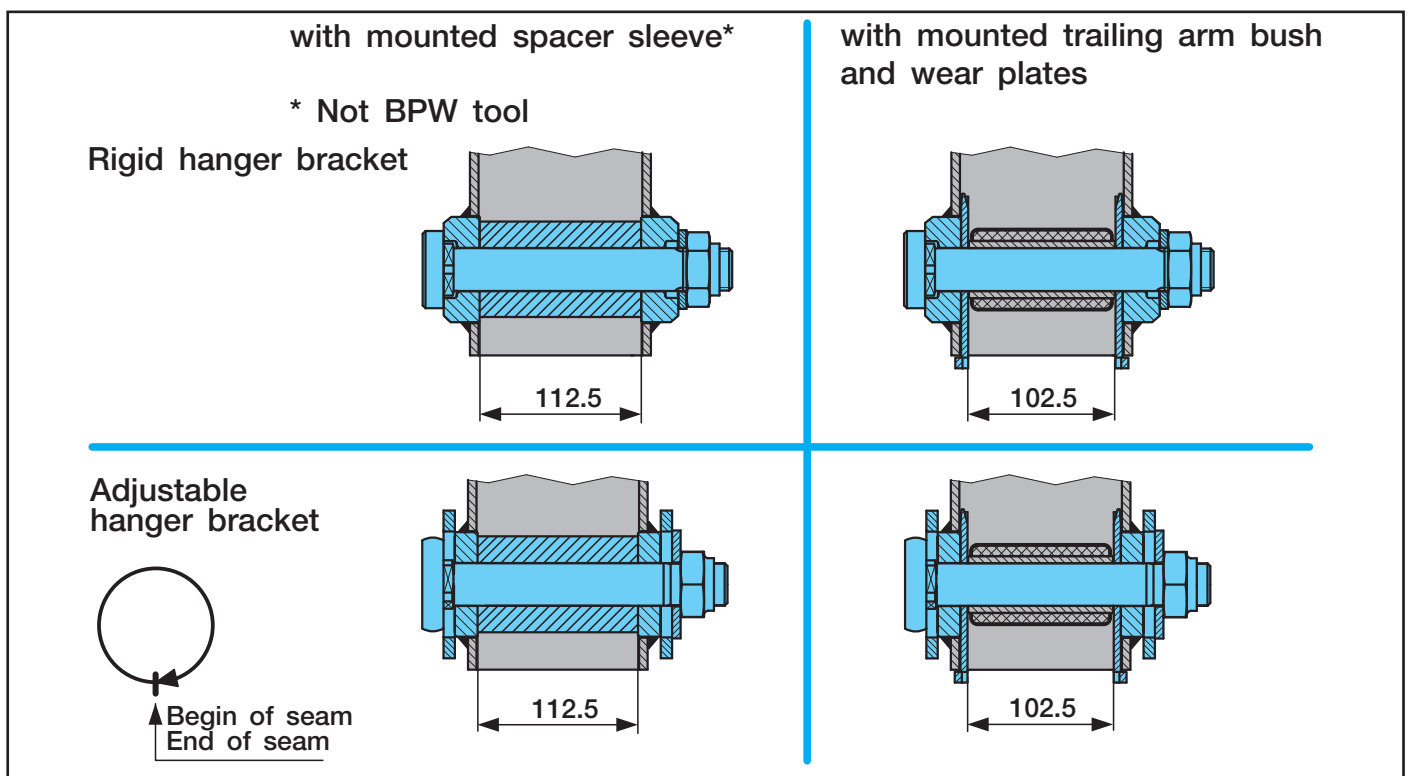
- Raise the air suspension using the rotary disc valve or by disconnecting the air suspension linkage. Raise it until the air bags are fully extended.
 - Pivot the axle lift towards the trailing arm by hand, until the plastic buffer makes contact with the trailing arm (the catch plate must be in contact with the trailing arm).
 - In this position, fit the bump stop so it is in contact with the air suspension hanger bracket (channel crossmember).
 - Adjust the air suspension to the nominal ride height with the rotary disc in the "driving" position.
 - Fit the spring bolt anti-rotation lock.
 - Tighten the spring bolt screw connection to the prescribed tightening torque (M = 900 Nm).
 - Refer to the appropriate installation guidelines for the air suspension installation and valve connection.
 - Perform a trial actuation to test that it is functioning reliably. Do not touch any moving parts of the axle lift when doing this.
- DANGER OF ACCIDENTS!**
- Check the spring bolt screw connection is firmly seated after the first drive under load.



Changing the weld-in bushes (spring bolt assembly) in BPW air suspension hanger brackets for 100 mm wide springs and loose wear plates

Perform the following work if the mounting bushes are worn out:

1. Remove the worn-out bushes from the side plates
2. Insert new bushes and use spacer sleeve* (112.5) or trailing arm bush (102.5 +0.5) plus mounted wear plates to preload, align centrally and with adjustable hanger brackets horizontally and tack-weld



3. Weld the bushes
4. When mounting the trailing arms:
 - Lightly grease the stud thread and nut contact surface
 - Mount wear plates
 - Tighten locknut M 30 to M = 900 (840 - 990) Nm

Important for all welding work !

The trailing arms, air bags and plastic pipings should be protected against sparks and weld splashes during all welding work. The earth terminal must under no circumstances be attached to the trailing arm or hub.

Welding method:

Inert gas welding

Weld wire quality G 4 Si 1 (DIN EN 440)

Mechanical quality values must be equivalent to basic material S 355 J 2 or S 420.

Weld thickness a 4 Δ up to a 5 Δ (DIN EN 25817)

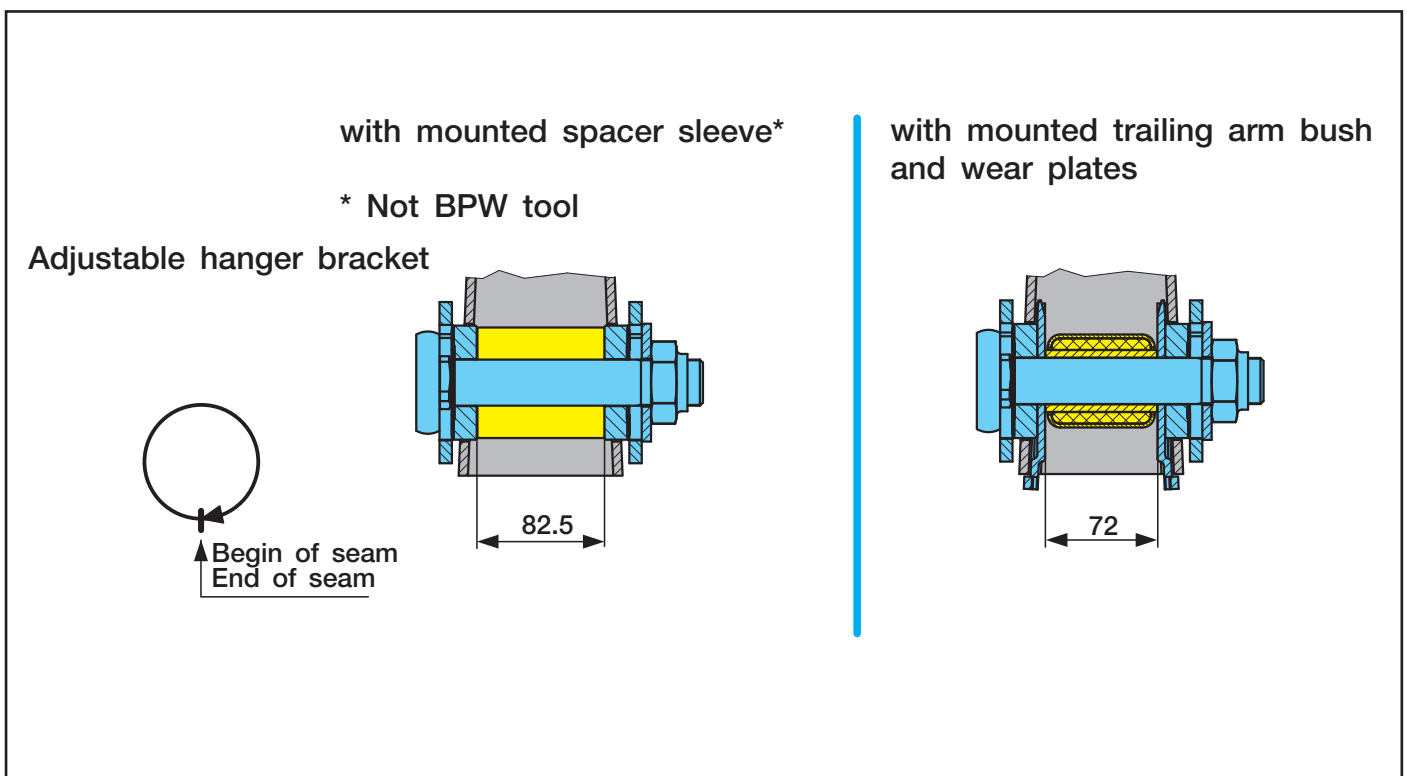
Avoid end cavities and undercutting.

* Not BPW tool

Changing the weld-in bushes (spring bolt assembly) in BPW air suspension hanger brackets for 70 mm wide springs and loose wear plates

Perform the following work if the mounting bushes are worn out:

1. Remove the worn-out bushes from the side plates
2. Insert new bushes and use spacer sleeve* (82.5) or trailing arm bush (72+0.5) plus mounted wear plates to preload, align centrally and with adjustable hanger brackets horizontally and tack-weld



3. Weld the bushes
4. When mounting the trailing arms:
 - Lightly grease the stud thread and nut contact surface
 - Mount wear plates
 - Tighten locknut M 24 to M = 650 (605 - 715) Nm
M 30 to M = 900 (840 - 990) Nm

Important for all welding work !

The trailing arms, air bags and plastic pipings should be protected against sparks and weld splashes during all welding work. The earth terminal must under no circumstances be attached to the trailing arm or hub.

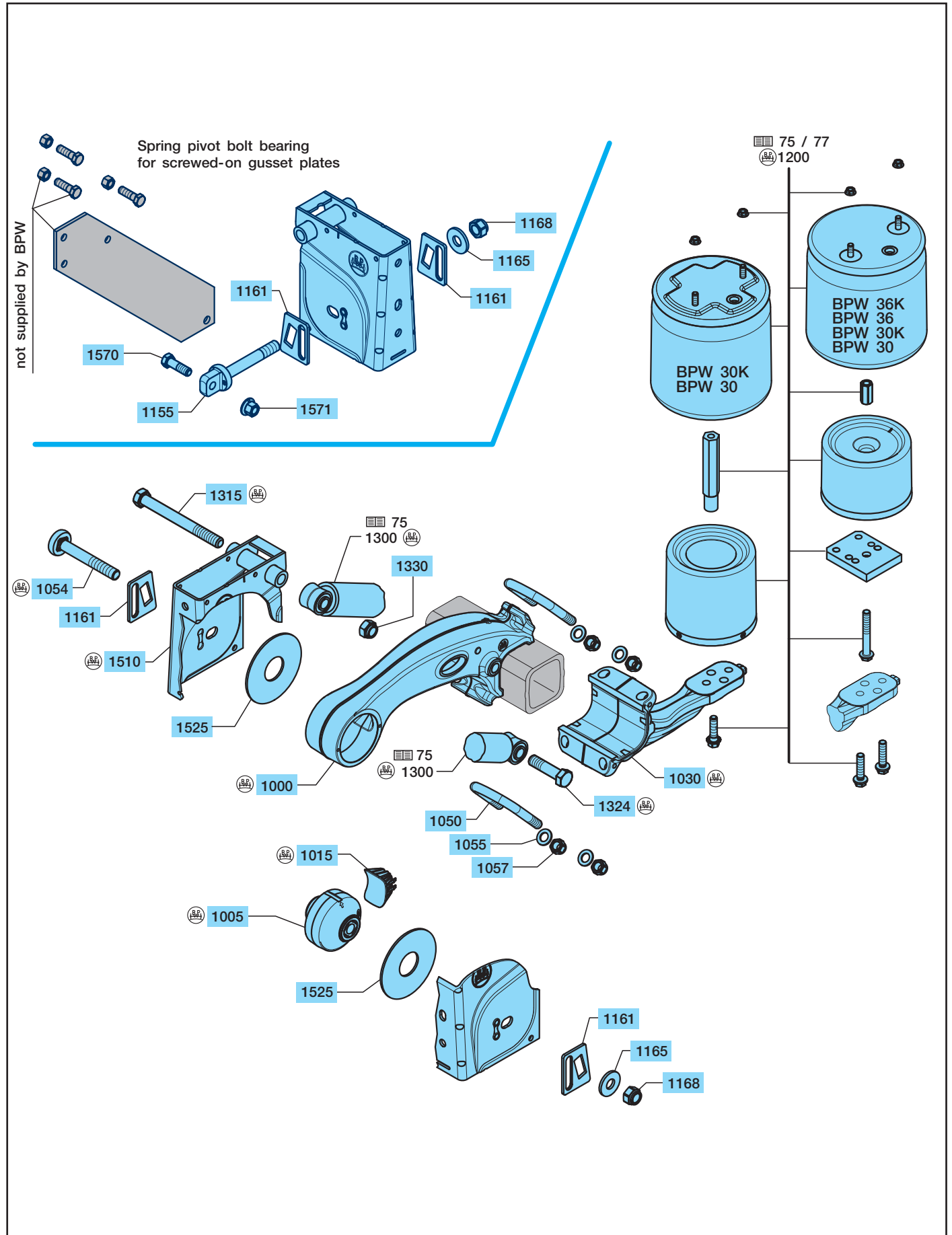
Welding method:

Inert gas welding
 Weld wire quality G 4 Si 1 (DIN EN 440)
 Mechanical quality values must be equivalent to basic material S 355 J 2 or S 420.
 Weld thickness a 4 Δ up to a 5 Δ (DIN EN 25817)
 Avoid end cavities and undercutting.

* Not BPW tool

14 Spare parts for ECO Air COMPACT running gear systems

AC



Spare parts for ECO Air COMPACT running gear systems

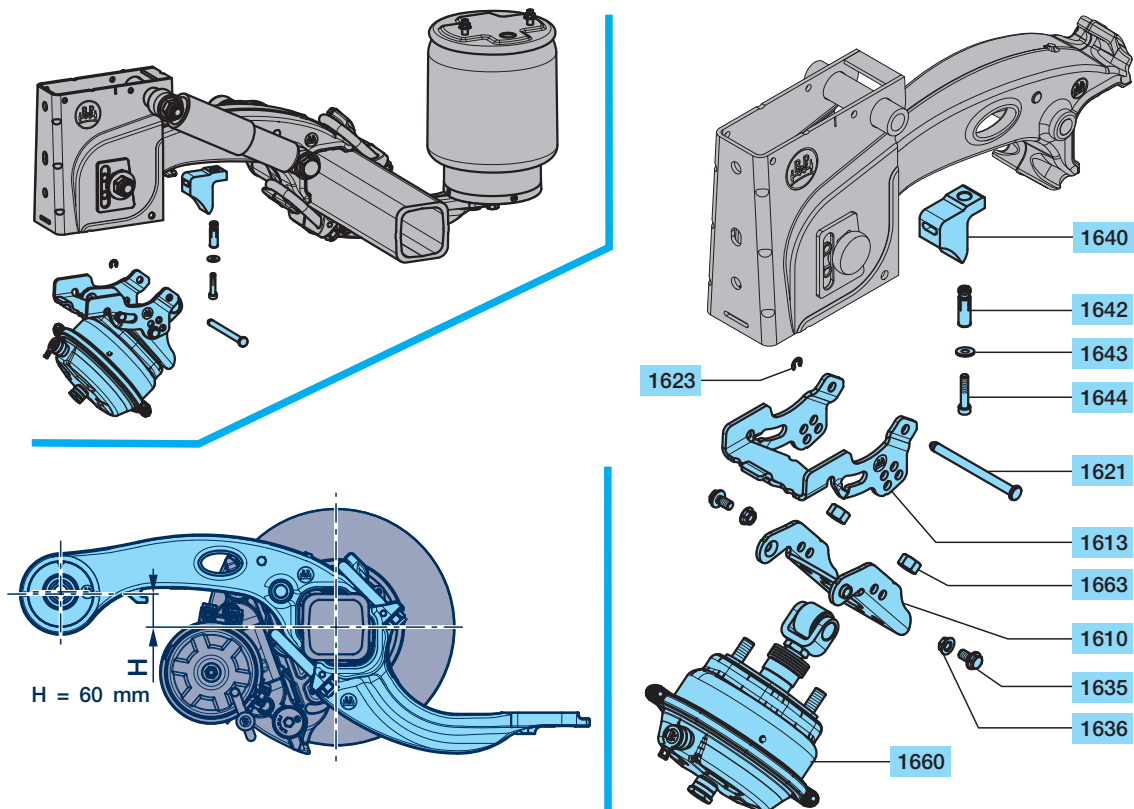
14

Item	Designation	Dimensions	BPW Code no.	Qty. / Axle	ACAU	ACAM	ACBM	ACBO
1000	Trailing guide incl. item 1005 + 1015	H = 60 mm	05.244.20.06.0	2	●	●		
		H = 130 mm	05.244.20.07.0	2			●	●
1005	Bush	Ø 24 / 43 / 59 / 132 x 112	02.0314.38.00	2	●	●	●	●
1015	Plug	60 x 83.5 x 44	03.379.00.39.0	2	●	●	●	●
1030	Air bag beam	L2 = 380 mm, K = 155 mm	03.244.20.02.0	2	●			
		L2 = 380 mm, K = 85 mm	03.244.20.03.0	2		●	●	
		L2 = 380 mm, K = -10 mm	03.244.20.04.0	2				●
1049	Repair kit axle clamping Item 1050, 1055, 1057		09.801.08.14.0	2	●	●	●	●
1050	Spring U-bolt		03.138.32.16.0	4	●	●	●	●
1055	Washer	A 21	02.5401.21.10	8	●	●	●	●
1057	Lock nut	M 20 - 10 / SW 30	03.260.04.21.0	8	●	●	●	●
Standard spring pivot bolt bearing								
1150	Repair kit spring pivot bolt bearing Item 1005, 1015, 1154 - 1168, 1525		09.801.08.12.0	2	●	●	●	●
1154	Spring pivot bolt	M 24 x 171 / Ø 56	03.340.14.33.0	2	●	●	●	●
1161	Plate (adjusting plate)	107 x 85/70 x 6	03.281.34.12.0	4	●	●	●	●
1165	Washer	Ø 25 / 60 x 6	03.320.33.28.0	2	●	●	●	●
1168	Lock nut	M 24 / SW 36	03.260.14.13.0	2	●	●	●	●
Spring pivot bolt bearing for screwed-on gusset plates								
1155	Spring pivot bolt	M 24 x 171 / Ø 56	03.340.14.35.0	2	●	●	●	●
1161	Plate (adjusting plate)	107 x 85/70 x 6	03.281.34.12.0	4	●	●	●	●
1165	Washer	Ø 25 / 60 x 6	03.320.33.28.0	2	●	●	●	●
1168	Lock nut	M 24 / SW 36	03.260.14.13.0	2	●	●	●	●
1570	Hexagon screw	M 18 x 1.5 x 60 - 10.9	02.5030.03.11	2	●	●	●	●
1571	Hexagon nut	M 18 x 1.5 / SW 27	05.260.53.07.0	2	●	●	●	●
1200	Air bag cpl.		see page 75 / 77	2	●	●	●	●
1300	Shock absorber (see page 110)	Ø 65 / 75 mm, L min.: 287 mm, L max. 412 mm, X = 204 mm	02.3722.79.02	2	●	●		
		Ø 65 / 75 mm, L min.: 292 mm, L max. 432 mm, X = 204 mm	02.3722.89.02	2		●	●	●
1315	Hexagon screw	M 24 x 240 - 8.8 / SW 36	03.340.14.19.0	2	●	●	●	●
1323	Repair kit shock absorber attachment Item 1324		09.801.08.11.0	2	●	●	●	●
1324	Hexagon screw	M 24 x 95 - 8.8 / SW 36	03.340.14.32.0	2	●	●	●	●
1330	Lock nut	VM 24 - 10	02.5220.74.12	2	●	●	●	●
1510	Hanger bracket, adjustable	Ø 24 / ST 205 / B 90 / D 85 F 35 / K 77.5, L 270	05.375.50.01.0	2	●	●		
		Ø 24 / ST 290 / B 90 / D 85 F 35 / K 77.5, L 270	05.375.50.02.0	2			●	●
1525	Washer	Ø 59.1 / 170 x 4.5	03.320.38.29.0	4	●	●	●	●

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14 Spare parts for ECO Air COMPACT running gear systems

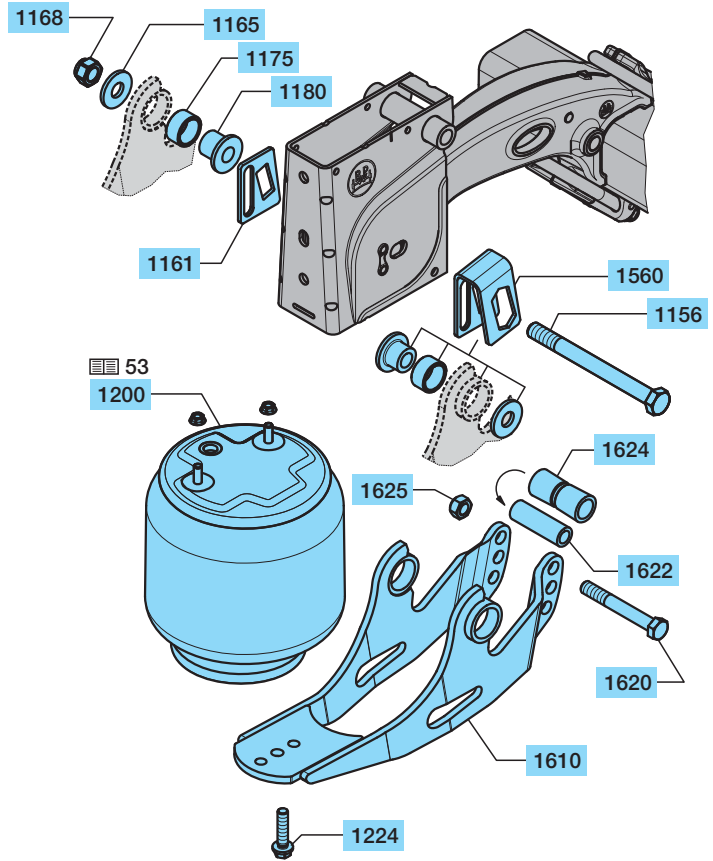
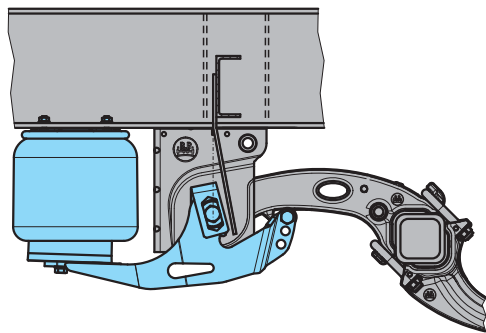
Two-side axle lift, ECO Air COMPACT



Item	Designation	Remark	BPW Code no.	Dimensions	
1600	Two-side axle lift cpl. (Item 1610 - 1660)		05.828.32.05.0	H = 60	05.828.32.06.0 H = 130
1610	Support		03.189.15.98.0		
1613	Shaped plate		03.165.46.62.0		
1621	Bolt		03.084.12.05.0	Ø 20 x 155	
1623	Locking disc		02.5413.10.93		
1635	Locking screw		02.5071.59.11	M 12 x 22 / SW 17	
1636	Lock nut		02.5273.33.80	M 12 - 10 / SW 17	
1639	Repair kit shaped part (Item 1640 - 1644)		09.801.08.13.0		09.801.08.... (upon request)
1640	Shaped part		03.001.35.17.0	for H = 60	03.001.35.19.0 for H = 130
1642	Dowel		02.0130.87.10	M 10	02.0130.87.10 M 10
1643	Washer		02.5401.10.11	A 10	02.5401.10.11 A 10
1644	Cylinder head screw		02.5015.27.82	M 10 x 50 / SW 8	02.5015.27.82 M 10 x 50 / SW 8
1660	Diaphragm cylinder (incl. item 1663)		05.444.10.41.0		
1663	Hexagon nut		02.5202.21.80	M 16 x 1.5 / SW 24	

See pages 168 / 169 for assembly and installation instructions.

Side axle lift device, ECO Air COMPACT

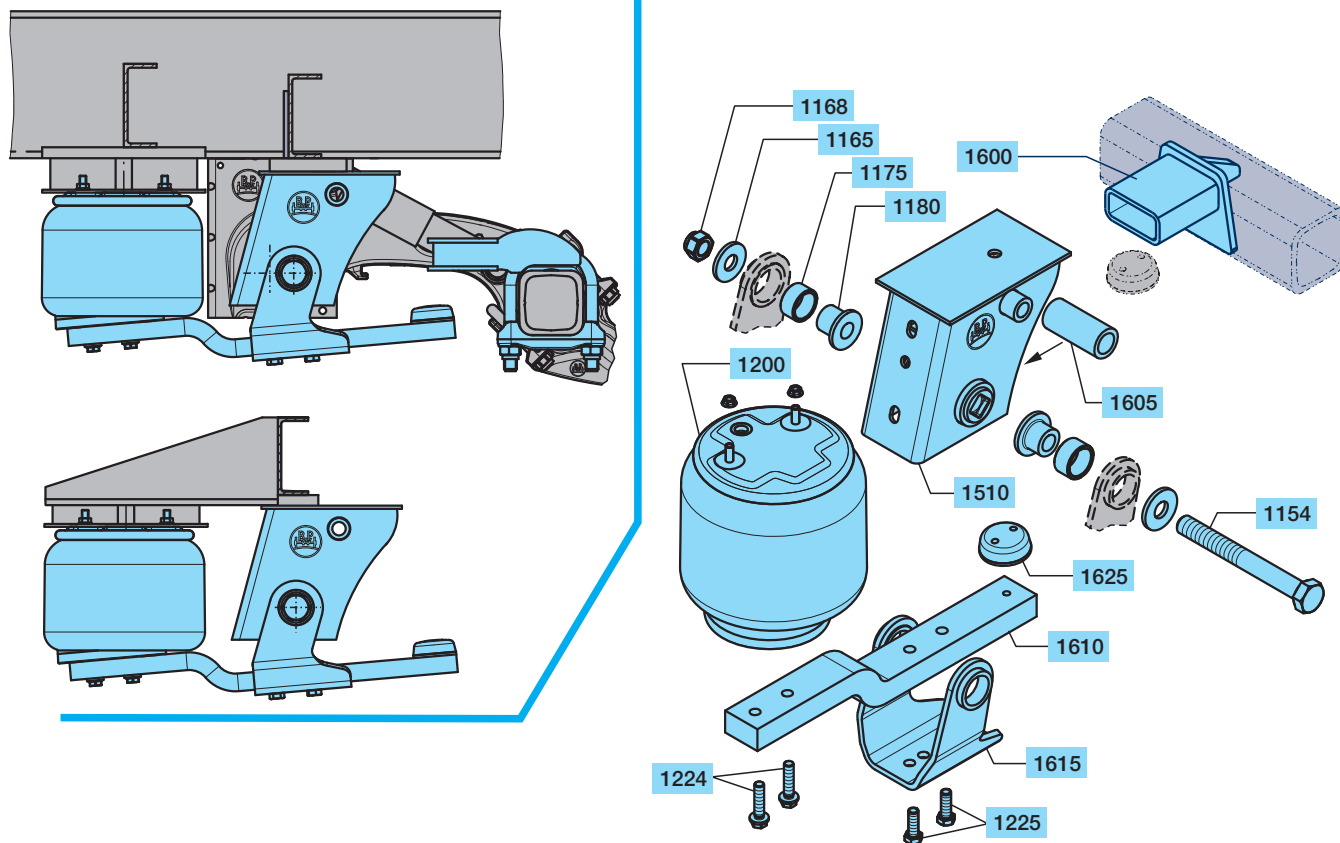


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Item	Designation	Remark	BPW Code no.	Dimensions
1156	Screw (Spring pivot bolt)		02.5023.43.13	M 24 x 260 / SW 36
1161	Plate (adjusting plate)		03.281.34.12.0	
1165	Washer		03.320.33.28.0	Ø 25 / 60 x 6
1168	Lock nut		03.260.14.13.0	M 24 / SW 36
1175	Bush		03.112.45.13.0	Ø 40.5 / 50 x 26
1180	Graduated bush		03.113.00.54.0	Ø 24 / 40 / 62 x 33.5
1200	Air bag (incl. item 1224)		05.429.43.86.0	see page 77
1224	Locking screw		02.5071.61.16	M 16 x 61
1510	Hanger bracket		see page 173	
1560	Adjusting plate with anti-rotation device		03.001.32.07.0	
1630	Lifting arm		05.189.15.99.0	
1635	Bush		03.112.43.13.0	Ø 32 / 41 x 98
1637	Hexagon screw		02.5023.14.80	M 20 x 150
1638	Tube		03.300.73.54.0	Ø 21 / 31 x 100
1640	Lock nut		02.5220.50.82	M 20

14 Spare parts for ECO Air COMPACT running gear systems

Central axle lift device, ECO Air COMPACT



Item	Designation	Remark	BPW Code no.	Dimensions
1154	Screw (Spring pivot bolt)		03.340.15.37.0	M 30
1165	Washer		02.5401.31.01	A 31 /
1168	Lock nut		03.260.15.01.0	M 30 / SW 46
1175	Bush		03.113.94.10.0	Ø 41 / 50 x 23
1180	Graduated bush		03.113.01.47.0	Ø 30 / 40 / 62 x 31
1200	Air bag (incl. item 1224)		see page 75 / 77	
1224	Locking screw		02.5070.95.00	M 16 x 65
1225	Hexagon screw		02.5026.35.12	M 16 x 45 - 10.9
1510	Hanger bracket		see page 175	
1600	Support		05.189.10.31.0	
1605	Tube		03.310.74.22.0	Ø 35 / 51 x 112
1610	Lifting arm		03.195.00.96.0	L = 720 mm
1615	Support		05.189.13.19.0	146 x 176
1625	Bump stop		02.3506.02.00	Ø 80 / M 12



Notes



BPW-EL-Luft 31051201e

