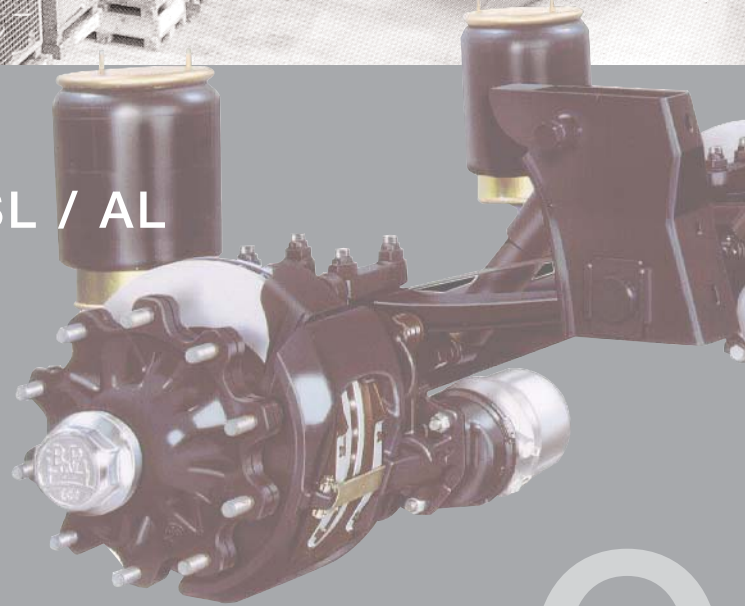




BPW Original spare parts

Air suspensions series O / SL / AL



O

SL

BPW ORIGINAL SPARE PARTS

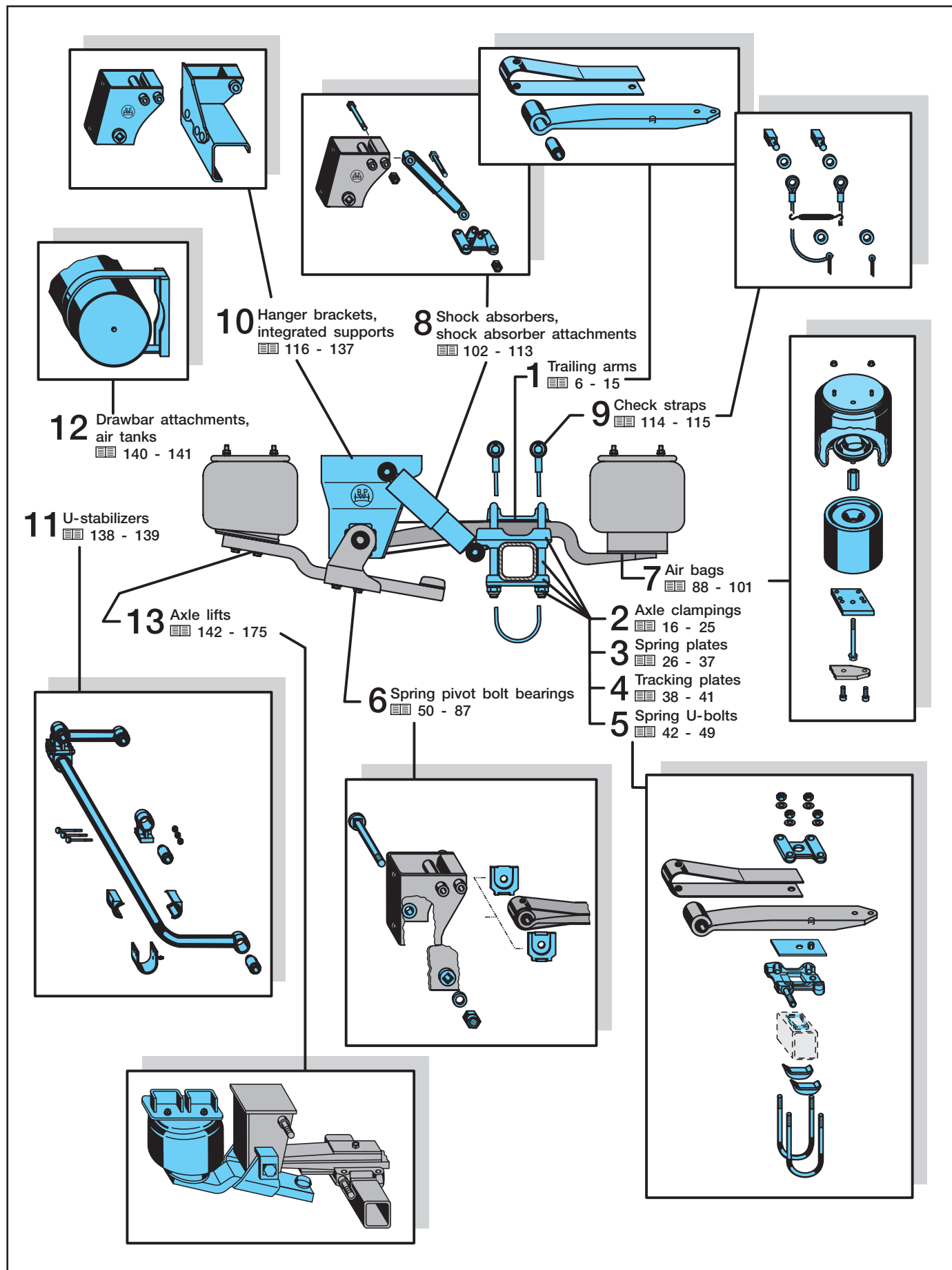
AL

BPW Original spare parts ● Air suspensions

O
SL
AL

Contents		Page		
		Air suspension series		
		O..	SL..	AL..
	Explanation of BPW suspension type codes	4	4	4
	Explanation of BPW code numbers	5	5	5
1	Trailing arms	6 - 15	6 - 15	6 - 11
1.1	Straight single leaf trailing arms	8 - 9	8 - 9	8 - 9
1.2	Cranked single leaf trailing arms	10 - 11	10 - 11	10 - 11
1.3	Straight double leaf trailing arms	12 - 13	12 - 13	-
1.4	Cranked double leaf trailing arms	14 - 15	14 - 15	-
2	Spring seats, axle clampings	16 - 25	16 - 25	16 - 25
2.1	Welded axle spring seat assembly	18 - 19	18 - 19	-
2.2	Clamped axle spring seat assembly	-	20 - 25	20 - 25
3	Spring plates, segments	26 - 37	26 - 37	26 - 37
4	Centering bolts, tracking plates	38 - 41	38 - 41	38 - 41
5	Spring U-bolts	42 - 49	42 - 49	42 - 49
6	Spring pivot bolt bearings	50 - 87	50 - 87	50 - 87
6.1	Spring pivot bolt bearing, unadjustable	52 - 63	52 - 63	52 - 63
6.2	Spring pivot bolt bearing, adjustable	64 - 75	64 - 75	64 - 75
6.3	Spring pivot bolt bearing, alloy hanger bracket	76 - 81	76 - 81	76 - 81
6.4	Spring pivot bolt bearing, stainless steel hanger brackets	82 - 87	82 - 87	82 - 87
7	Air bags	88 - 101	88 - 101	88 - 101
7.1	Air bags Ø 300	90 - 91	90 - 91	90 - 91
7.2	Air bags Ø 360	92 - 93	92 - 93	92 - 93
7.3	Conversion from steel piston to plastic piston	94 - 95	94 - 95	94 - 95
7.4	Spare parts for air bags	96 - 99	96 - 99	96 - 99
7.5	Upper air bag attachments, spacers	100 - 101	100 - 101	100 - 101
8	Shock absorbers, attachments	102 - 113	102 - 113	102 - 113
8.1	Shock absorbers	103	103	103
8.2	Upper shock absorber attachments	104 - 107	104 - 107	104 - 107
8.3	Lower shock absorber attachments	108 - 113	108 - 113	108 - 113
9	Check straps, attachments	114 - 115	114 - 115	114 - 115
9.1	Check straps	114	114	114
9.2	Check strap attachments	115	115	115
10	Hanger brackets, integrated supports	116 - 137	116 - 137	116 - 137
10.1	Hanger brackets	120 - 129	120 - 129	118 - 129
10.2	Integrated supports	132 - 133	132 - 133	130 - 133
10.3	Spare parts for hanger brackets	134 - 137	134 - 137	134 - 137
11	U-stabilizers	138 - 139	138 - 139	138 - 139
12	Drawbar attachments, air tanks	140 - 141	140 - 141	140 - 141
13	Axle lifts	142 - 175	142 - 175	142 - 175

O
SL
AL




Explanation of BPW suspension type codes

Example:															
H	S	F	H	SLO	A	LL	3 /	9010	/12°	A	F30	ECO			
													Trailer axle	Brake	Tyre size
H													H..	SN 420	20" - 24"
K													K..	SN 360	19.5"
N													N..	SN 300	15" (12"-17.5")
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	= straight overslung trailing arm	490 - 500
													OM	= cranked overslung trailing arm	370 - 470
													OMN	= cranked overslung trailing arm	355
													OMT	= cranked underslung trailing arm	290
													OT	= underslung trailing arm	220 - 360
													SLO	= straight overslung trailing arm	420 - 490
													SLM	= cranked overslung trailing arm	360 - 440
													SLU	= underslung trailing arm	220 - 330
													ALO	= straight overslung trailing arm	380 - 490
													ALM	= cranked overslung trailing arm	305 - 420
													ALU	= underslung trailing arm	175 - 300
													DLU	= Airlight ^{Direct}	260 - 330
													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	
													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	
													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 up to 340 mm
													36-2		Ø 360 mm, for stroke up to 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	
													ECO-MAXX	Weight-optimized ECO-axle built as from 1997	
													ECO ^{Plus}	Weight-optimized axle with BPW ECO ^{Plus} hub system	
													MAXX	Weight-optimized axle with conventional hub bearing system	

Valid: 1.1.2005

This spare parts list shows fast moving parts for air suspension bogies of the series O.. / SL.. / AL.. 6 - 13 to.

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.			
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.			
40.		10000 - 12000 kg	33118 / 33213
44.		13000 - 14000 kg	32219 / 33215
48.		8000 - 9000 kg	33118 / 33213
50.		10000 - 12000 kg	33118 / 33213
65.		6400 kg	33215 / 32310
5. - 7. digit			
001.	to	Premounted air suspension axle without hanger brackets and air bags	
	099.	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	Designation of ride height and air bag type 220 to 509	
	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	Designation of wheel bare in the case of ref. number 20... - 39...	
	839.	For explanation of code number, see EL-HKN / EL-SB	
8. - 10. digit			
		000	Consecutive number 000 - 999

1 Trailing arms

General

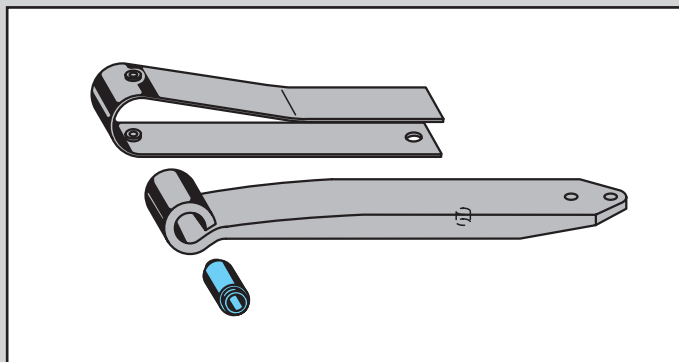
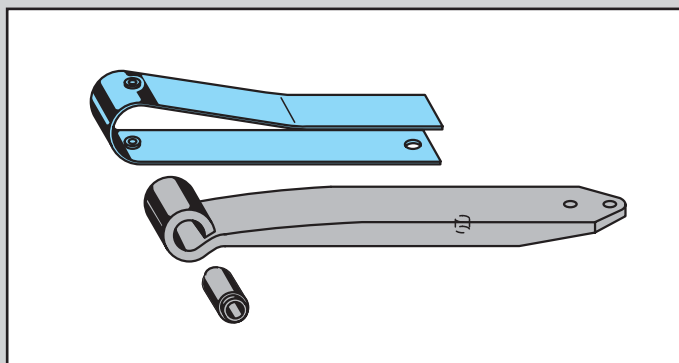
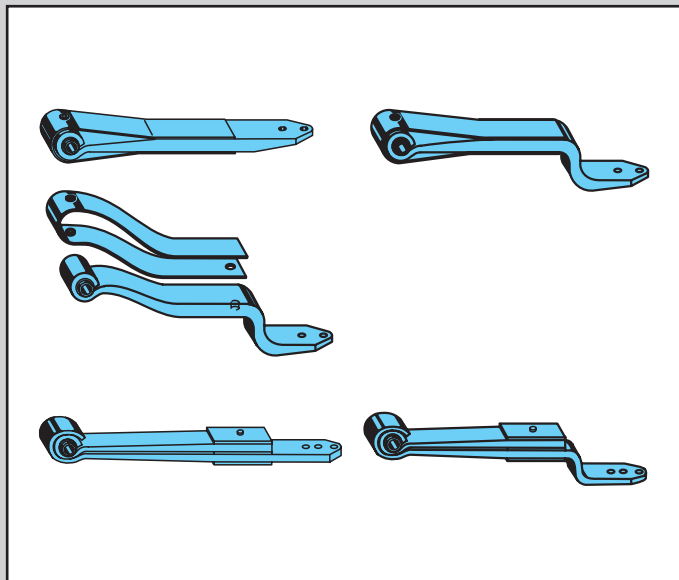
BPW Trailing arms

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, cataphoretic 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.

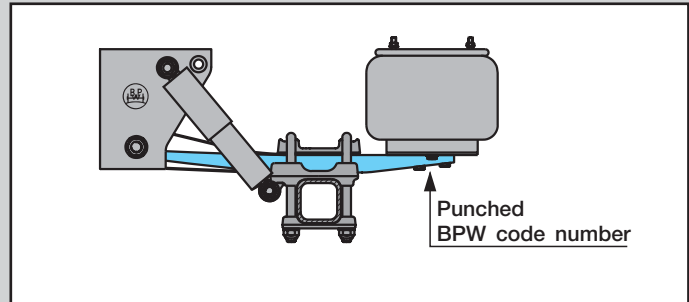
Long-life steel-rubber-steel bushes (up to 4 times the service life of rubber-steel bushes) offer maintenance-free mounting of the trailing arm. The axle is precisely located, and tyre wear and operating costs are both reduced.



Determining replacement trailing arms

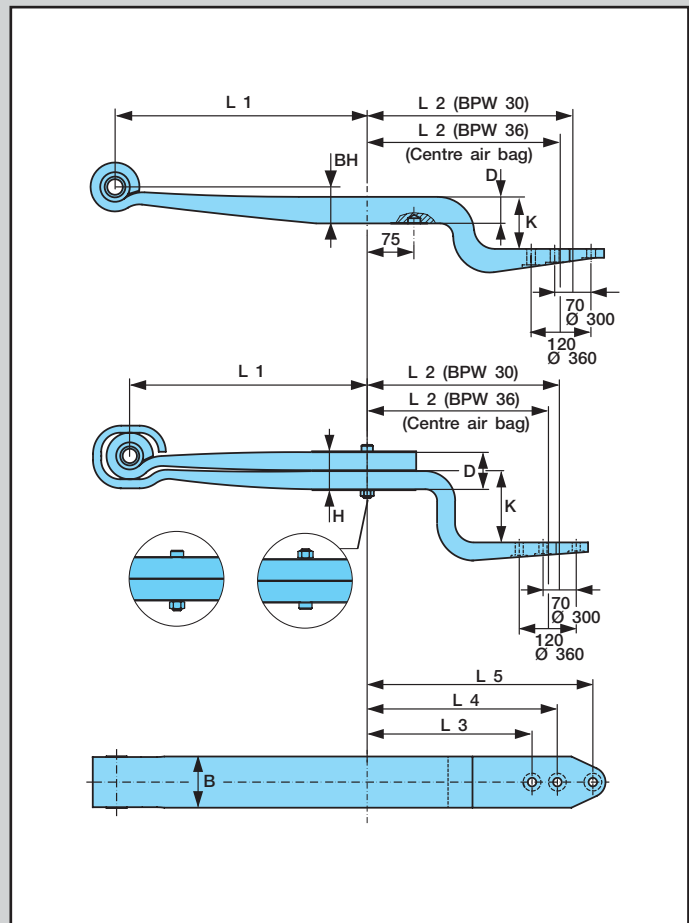
The BPW code number is punched into the underside of the trailing arm (in the area of air bag).

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
- 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



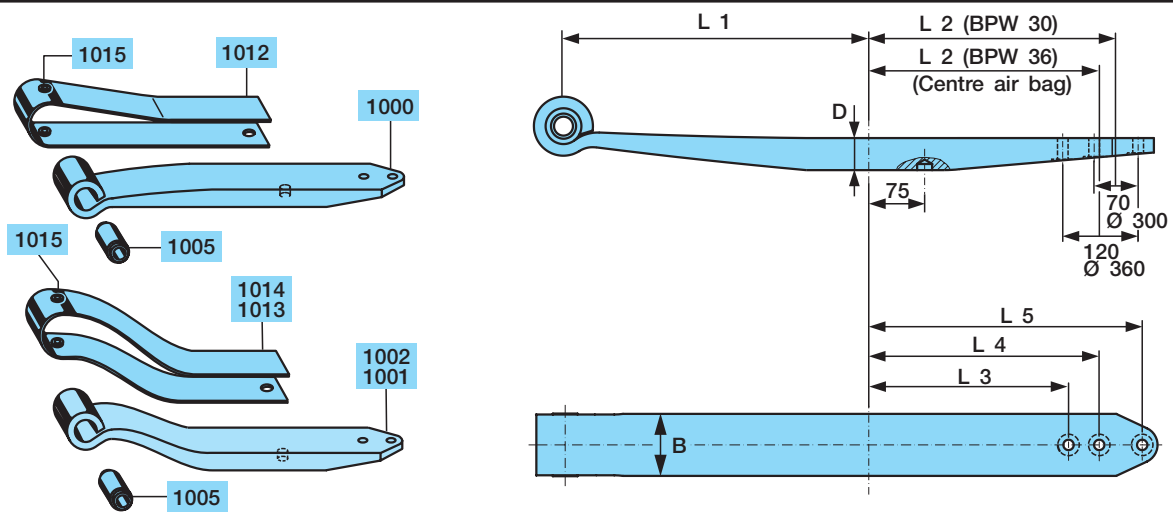
Single layer trailing arms with catch plate fitted (with spring screw fitted) are replaced by trailing arms with a loose catch plate.

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!

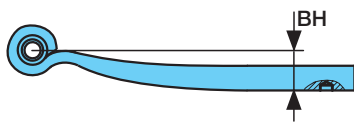
Rubber / steel bushes cannot be replaced by steel / rubber / steel bushes!

1.1 Trailing arms

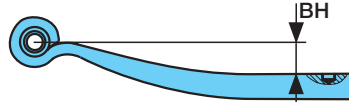
Straight single leaf trailing arms



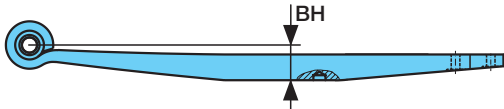
A 1



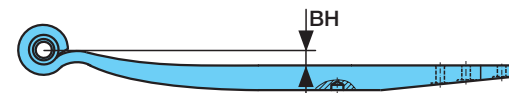
A 2



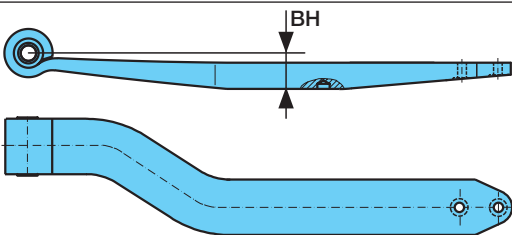
A 3



A 4

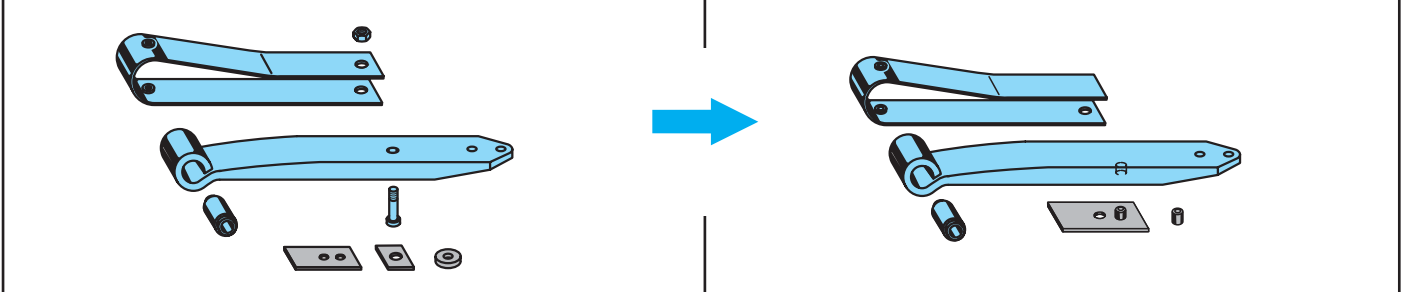


A 5



Straight single leaf trailing arms										
Dimensions									BPW Code no.	
Fig.	D	BH	L 1	BPW 30 L 2	BPW 36 L 2	L 3	L 4	L 5	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	-	-	-	-	-	05.082.14.03.0	05.348.30.43.0
100 mm wide (B)										
A 1	1 x 48	70	500	-	-	-	-	-	05.082.13.85.0	05.348.30.05.0
A 3		70	500	310	310	-	275	345	05.082.12.92.0	05.348.30.05.0
A 4		23	500	380	355	295	345	415	05.082.13.71.0	05.348.30.05.0
A 3	1 x 51	70	500	310	310	-	275	345	05.082.13.48.0	05.348.30.05.0
A 3		70	500	380	355	295	345	415	05.082.13.37.0 *	05.348.30.14.0
A 3		70	500	380	355	295	345	415	05.082.13.18.0	05.348.30.05.0
A 4	1 x 60	90	690	310	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	310	-	275	345	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)			02.0316.98.00		Ø 30 / 60 x 72			Leaf spring 70 mm wide	
1005	Bush (steel / rubber / steel) Bush (rubber / steel) ¹⁾			02.0316.90.00 02.0316.06.00		Ø 30 / 57 x 102 Ø 30 / 60 x 102			Leaf spring 100 mm wide	
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 15.										

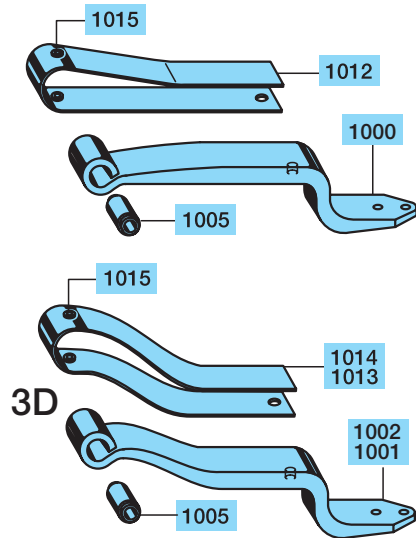
Trailing arms with catch plate fitted (with centre bolt fitted) are replaced by trailing arms with a loose catch plate.



When changing to trailing arms with loose catch plate, use tracking plate or pin. See also page 39

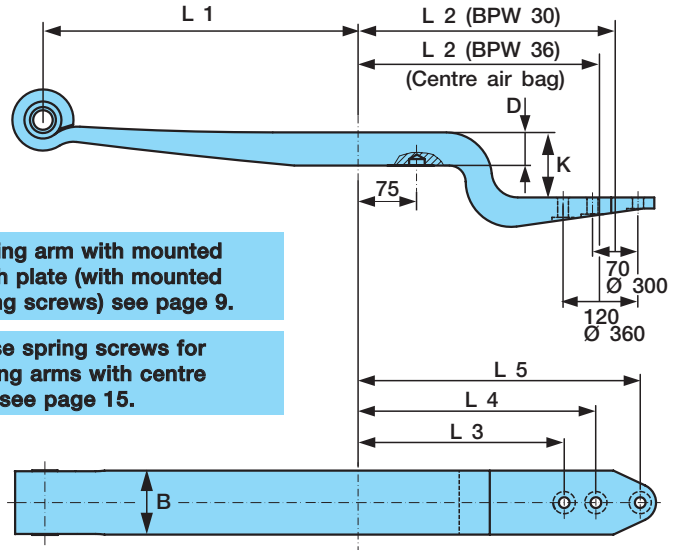
1.2 Trailing arms

Cranked single leaf trailing arms

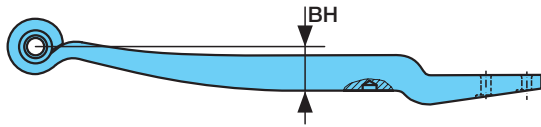


Trailing arm with mounted catch plate (with mounted spring screws) see page 9.

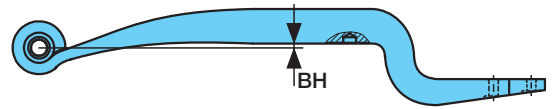
Loose spring screws for trailing arms with centre bolt see page 15.



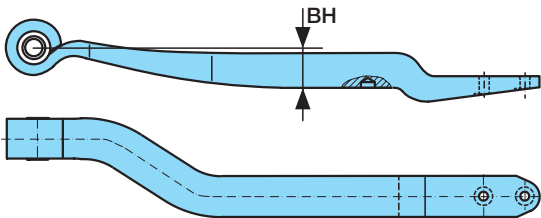
B 1



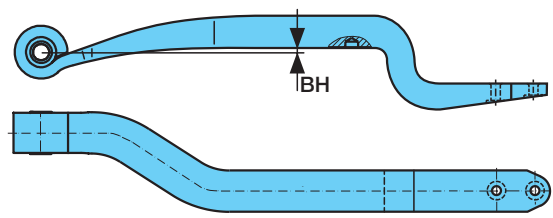
B 2



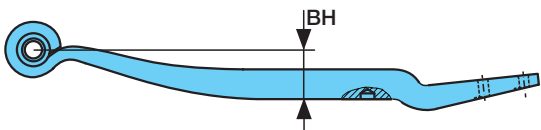
B 3



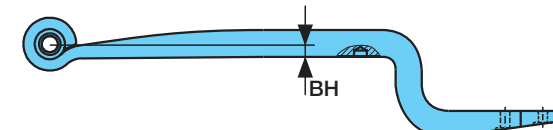
B 4



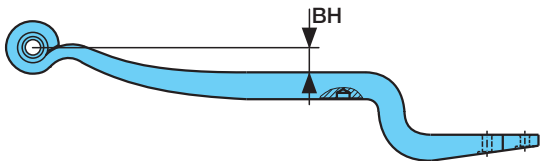
B 5



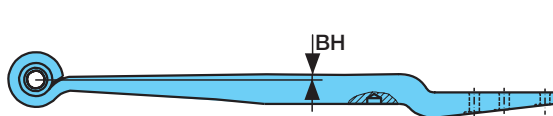
B 6



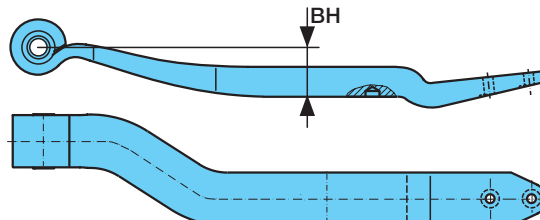
B 7



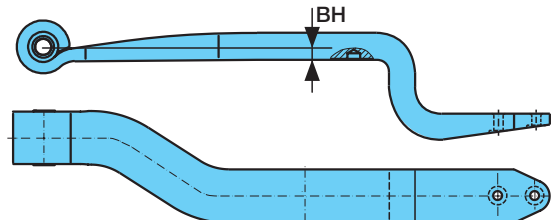
B 8



B 9



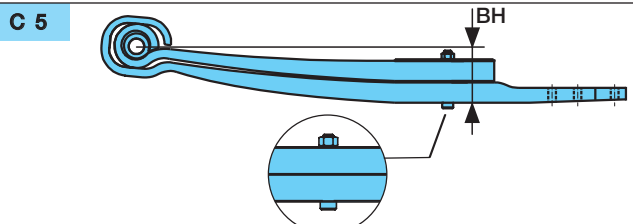
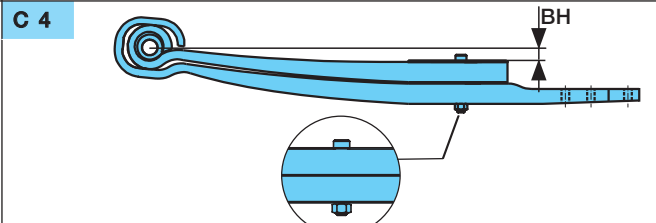
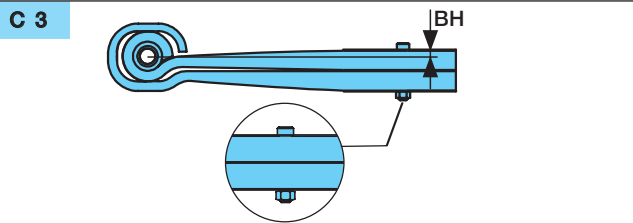
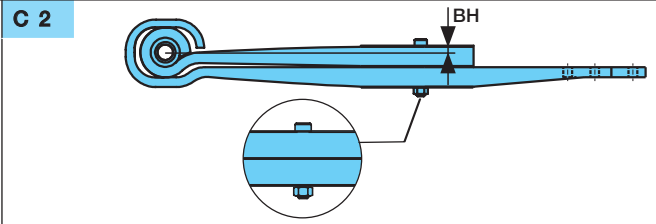
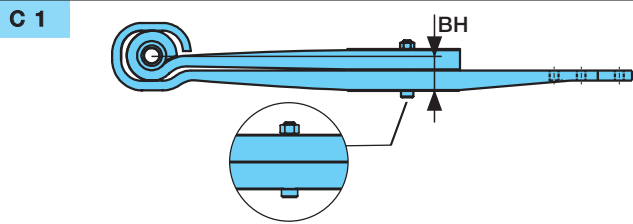
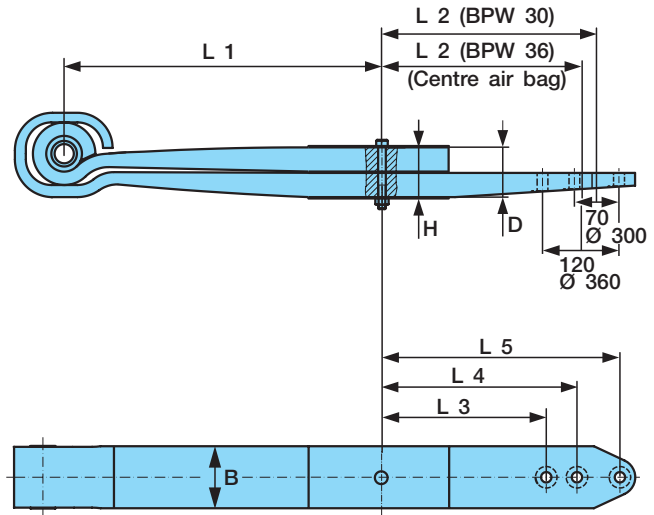
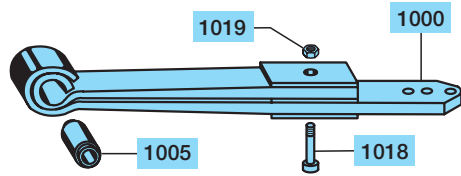
B 10



Cranked single leaf trailing arms											
Dimensions										BPW Code no.	
Fig.	D	K	BH	L 1	BPW 30 L 2	BPW 36 L 2	L 3	L 4	L 5	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	05.082.13.90.0	05.348.30.36.0
B 1		30	80	500	380	-	-	345	415	05.082.13.89.0	05.348.30.36.0
B 2		100	10	500	380	-	-	345	415	05.082.13.88.0	05.348.30.37.0
B 2		185	10	500	380	-	-	345	415	05.082.14.01.0	05.348.30.37.0
B 2	1 x 60	205	54	550	380	-	-	345	415	05.082.14.08.0	05.348.30.48.0
B 1	1 x 62	30	80	500	310	-	-	275	345	05.082.14.02.0	05.348.30.36.0
B 1		30	80	500	380	-	-	345	415	05.082.13.96.0	05.348.30.36.0
B 2		110	10	500	380	-	-	345	415	05.082.13.95.0	05.348.30.37.0
B 2		185	10	500	380	-	-	345	415	05.082.14.04.0	05.348.30.37.0
70 mm wide (B) - 3D-Trailing arm											
B 3	1 x 60	30	80	500	380	-	-	345	415	05.082.13.94.0 L 05.082.13.93.0 R	05.348.30.41.0 L 05.348.30.40.0 R
B 4		110	10	500	380	-	-	345	415	05.082.13.92.0 L 05.082.13.91.0 R	05.348.30.39.0 L 05.348.30.38.0 R
100 mm wide (B)											
B 5	1 x 48	25	92	500	380	-	-	345	415	05.082.13.80.0	05.348.30.05.0
B 1		30	70	500	310	-	-	275	345	05.082.13.51.0	05.348.30.05.0
B 1		30	70	500	380	-	-	345	415	05.082.13.56.0	05.348.30.05.0
B 2		100	10	500	380	-	-	345	415	05.082.13.52.0	05.348.30.23.0
B 6		150	22	500	380	380	-	345	415	05.082.12.93.0	05.348.30.05.0
B 1		150	71	500	405	380	320	370	440	05.082.13.69.0	05.348.30.05.0
B 6		205	22	500	380	-	-	345	415	05.082.13.70.0	05.348.30.05.0
B 1	1 x 51	30	70	500	310	-	-	275	345	05.082.13.59.0	05.348.30.05.0
B 1		30	70	500	380	-	-	345	415	05.082.13.67.0	05.348.30.05.0
B 1		30	70	550	380	380	-	345	415	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		100	70	500	380	-	-	345	415	05.082.13.66.0	05.348.30.05.0
B 6		150	22	500	380	-	-	345	415	05.082.13.19.0	05.348.30.05.0
B 6		150	22	550	380	-	-	345	415	05.082.13.86.0	05.348.30.33.0
B 1	1 x 54	30	70	550	380	380	-	345	415	05.082.13.74.0	05.348.30.33.0
B 6		150	22	550	380	-	-	345	415	05.082.14.07.0	05.345.30.45.0
B 8	1 x 58	45	11	500	380	355	295	345	415	05.082.13.75.0	05.348.30.05.0
B 7		110	62	620	365	-	-	330	400	05.082.13.78.0	05.348.30.05.0
B 1		163	66	500	405	380	320	370	440	05.082.13.83.0	05.348.30.05.0
100 mm wide (B) - 3D-Trailing arm											
B 9	1 x 50	25	92	500	380	-	-	345	415	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	05.348.30.08.0 L 05.348.30.18.0 R
B 9		30	70	500	380	-	-	345	415	05.082.13.77.0 L 05.082.13.76.0 R	05.348.30.08.0 L 05.348.30.18.0 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	370	440	05.082.13.73.0 L 05.082.13.72.0 R	05.348.30.08.0 L 05.348.30.18.0 R
1005	Bush (steel / rubber / steel)				02.0316.98.00 Ø 30 / 60 x 72				Leaf spring 70 mm wide		
1005	Bush (steel / rubber / steel)				02.0316.90.00 Ø 30 / 57 x 102				Leaf spring 100 mm wide		
1015	Plug (for catch strap)				03.379.00.27.0				Rubber / steel bush see page 9		

1.3 Trailing arms

Straight double leaf trailing arms



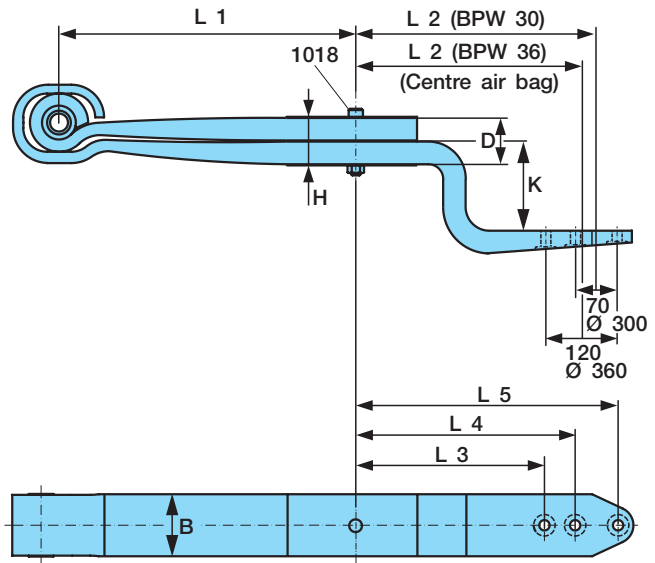
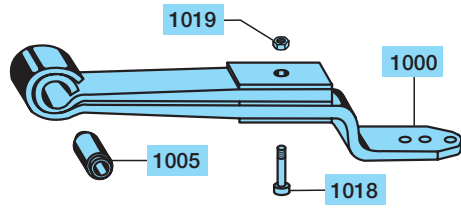
Straight double leaf trailing arms											
Dimensions										BPW Code no.	
Fig.	D	H	BH	L 1	BPW 30 L 2	BPW 36 L 2	L 3	L 4	L 5	Trailing arm Item 1000	Centre bolt Item 1018
100 mm wide (B)											
C 1	2 x 33	72	69	500	335	310	250	300	370	05.082.02.51.0	03.341.02.02.0
C 2		72	3	500	335	310	250	300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

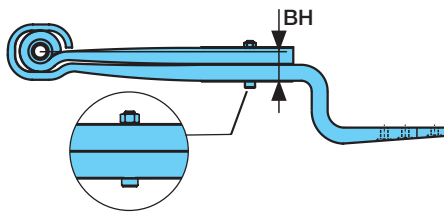
Loose spring screws for trailing arms with centre bolt see page 15.

1.4 Trailing arms

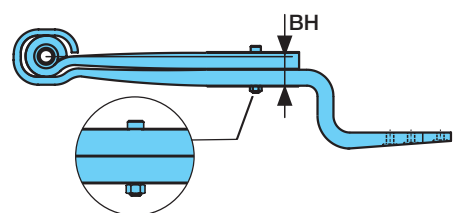
Cranked double leaf trailing arms



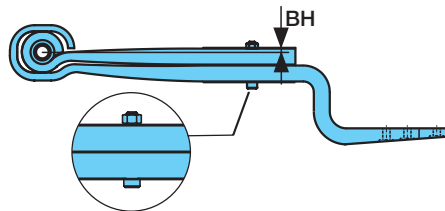
D 1



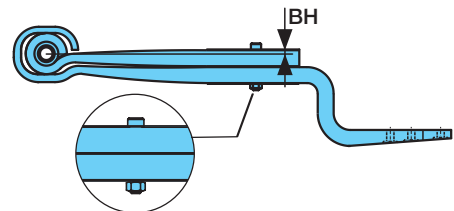
D 2



D 3



D 4



Dimensions											BPW Code no.	
Fig.	D	H	K	BH	L 1	BPW 30 L 2	BPW 36 L 2	L 3	L 4	L 5	Trailing arm Item 1000	Centre bolt Item 1018
100 mm wide (B)												
D 1	2 x 33	72	100	68	470	390	365	305	355	425	05.082.02.66.0	03.341.02.02.0
D 1		72	100	68	470	340/390	365	305	355	425	05.082.02.97.0	03.341.02.02.0
D 1		72	150	72	500	405	380	320	370	440	05.082.12.63.0	03.341.02.02.0
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		82	100	14	470	390	365	305	355	425	05.082.12.43.0	03.341.02.03.0
D 1		82	150	72	500	405	380	320	370	440	05.082.12.64.0	03.341.02.03.0
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		86	120	72	550	405	380	320	370	440	05.082.12.77.0	03.341.02.17.0
D 2		86	120	14	550	405	380	320	370	440	05.082.02.45.0	03.341.02.17.0
D 2		89	120	15	720	405	380	320	370	440	05.082.13.23.0	03.341.02.17.0
D 1		86	150	72	550	405	380	320	370	440	05.082.12.84.0	03.341.02.17.0
D 2	2 x 43	92	50	13	500	380	355	295	345	415	05.082.13.60.0	03.341.02.18.0
D 1		95	120	74	550	405	380	320	370	440	05.082.13.24.0	03.341.02.18.0
D 2		95	120	21	550	405	380	320	370	440	05.082.13.34.0	03.341.02.18.0
D 1		92	150	72	500	405	380	320	370	440	05.082.13.33.0	03.341.02.18.0
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						
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	Dimension	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

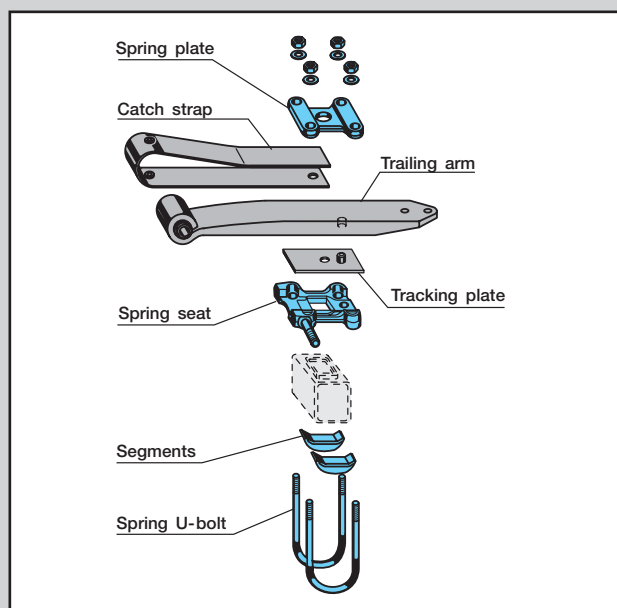
2 Spring seats, axle clampings

General

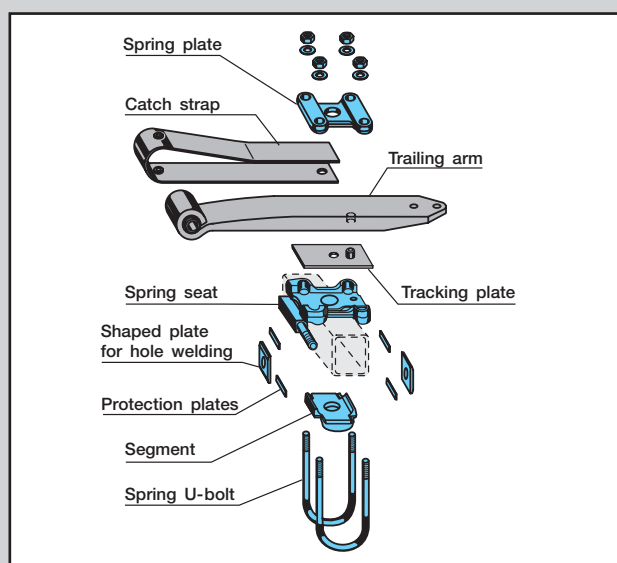
BPW Axle clampings

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.



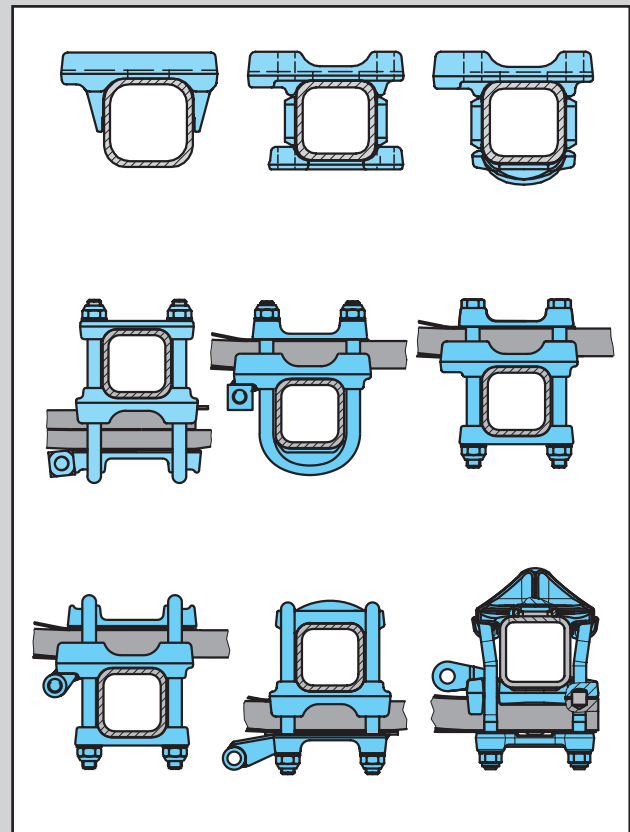
Welded axle mountings are mainly used with a round axle cross section, steering axles as well as heavy-duty air suspension systems.



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



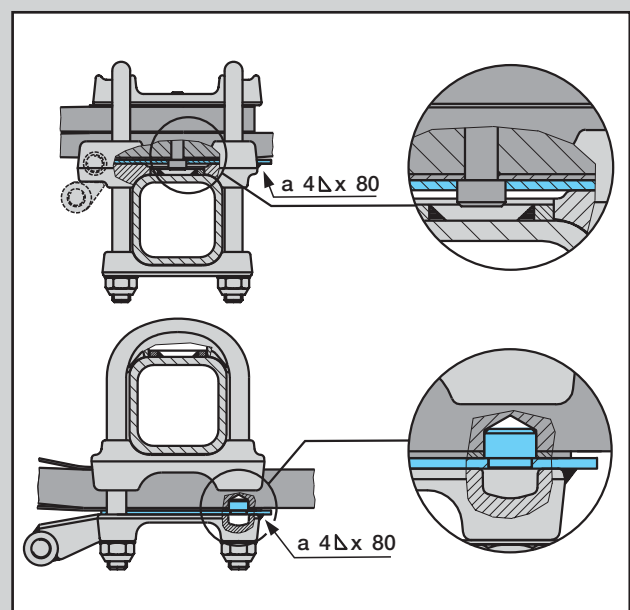
Tracking plates

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.

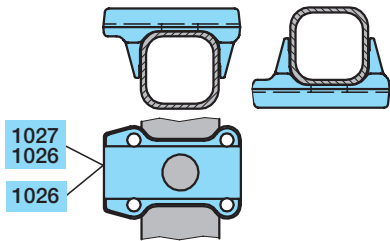


2.1 Welded axle spring seat assembly

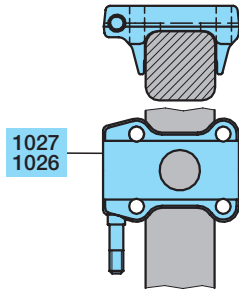
Spring seats for welded axle spring seat assembly

Spring seats with welding lug

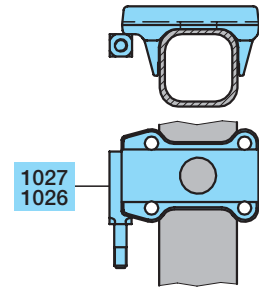
A 1



A 2

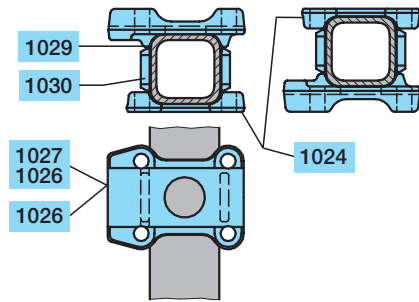


A 3

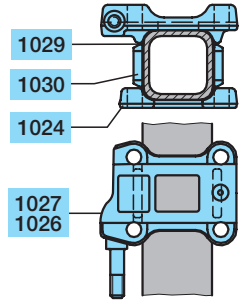


Spring seats with counter-lugs

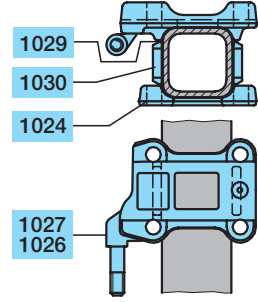
B 1



B 2

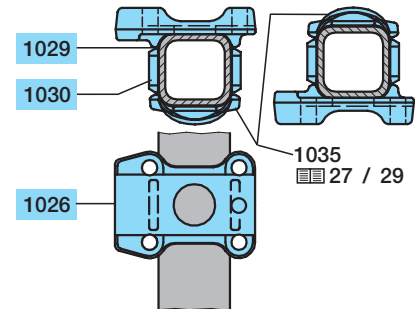


B 3

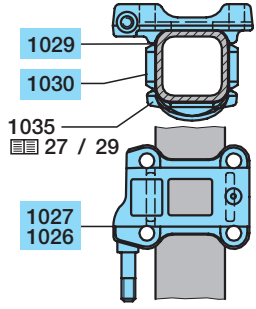


Spring seats with segments

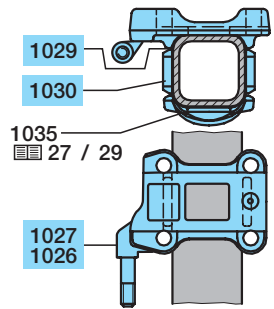
B 1



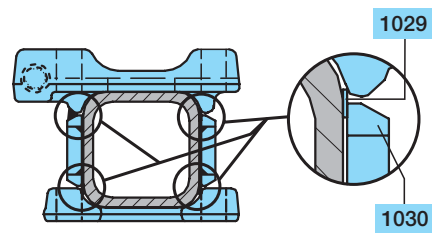
B 2



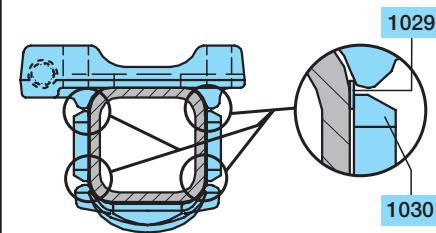
B 3



Spring seats with counter-lugs



Spring seats with segments



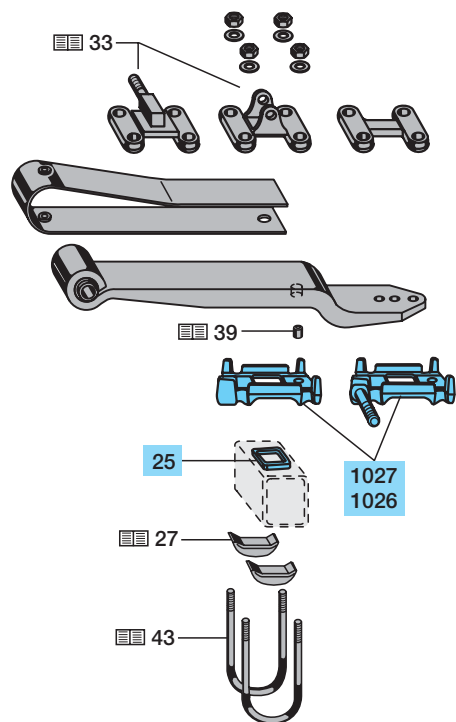
Welded axle spring seat assembly 2.1

Spring seats for welded axle spring seat assembly								
Spring seats, trailing arm 100 mm wide								
			Spring seat without shock absorber attachment Exec. A 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.
			VO 1 / VO 1F / VO 13		OR 1 / OR 13 / OR 14		OR 2 / OR 2 F / OR 23	
Spring seats with welding lug, without counter-lugs								
1026	Spring seat	<input type="checkbox"/> 120 <input checked="" type="checkbox"/> 120	03.032.18.99.0 2x	A 1				
1026	Spring seat, right	<input type="checkbox"/> 120			Steering axle		Steering axle	
1027	Spring seat, left	<input checked="" type="checkbox"/> 120			05.032.27.14.0 1x	A 2	05.032.27.10.0 1x	A 3
					05.032.27.15.0 1x		05.032.27.11.0 1x	
1026	Spring seat, right	<input checked="" type="checkbox"/> 120	Steering axle				Steering axle	
1027	Spring seat, left		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	<input type="checkbox"/> 150	03.032.19.87.0 2x	A 1				
Spring seats without welding lug, with counter-lugs / segment								
1024	Spring seat (counter-lug)	<input type="checkbox"/> 120 <input type="checkbox"/> 150 Ø 127	03.032.17.05.0 2x		03.032.17.05.0 2x		03.032.17.05.0 2x	
			03.032.19.26.0 2x		03.032.19.26.0 2x		03.032.19.26.0 2x	
			03.032.38.13.0 2x		03.032.38.13.0 2x		03.032.38.13.0 2x	
1026	Spring seat, right	<input checked="" type="checkbox"/> 120	Steering axle					
1027	Spring seat, left		03.032.18.54.0 1x	B 1				
			03.032.18.53.0 1x					
1026	Spring seat, right	<input type="checkbox"/> 120	03.032.21.06.0 1x	B 1	05.032.21.26.0 1x	B 2	05.032.21.28.0 1x	B 3
1027	Spring seat, left	<input checked="" type="checkbox"/> 120	03.032.21.05.0 1x		05.032.21.27.0 1x		05.032.21.29.0 1x	
1026	Spring seat	Ø 127	03.032.58.18.0 2x	~ B 1				
1026	Spring seat, right	Ø 127			05.032.58.22.0 1x	~ B 2		
1027	Spring seat, left				05.032.58.21.0 1x			
1026	Spring seat	<input type="checkbox"/> 150	03.032.10.43.0 2x	~ B 1				
			03.032.10.44.0 2x					
1026	Spring seat, right	<input type="checkbox"/> 150			05.032.10.48.0 1x	B 2	05.032.10.50.0 1x	B 3
1027	Spring seat, left				05.032.10.47.0 1x		05.032.10.49.0 1x	
1029	Plate	<input type="checkbox"/> 120 <input type="checkbox"/> 150	03.283.14.03.0		03.283.14.03.0		03.283.14.03.0	
1030	Shaped plate	<input type="checkbox"/> 120 <input type="checkbox"/> 150	03.161.84.04.0 03.164.84.05.0		03.161.84.04.0 03.164.84.05.0		03.161.84.04.0 03.164.84.05.0	
1035	Segment	<input type="checkbox"/> 120 <input type="checkbox"/> 150	see page 27 / 29		see page 27 / 29		see page 27 / 29	
Further executions upon request.								

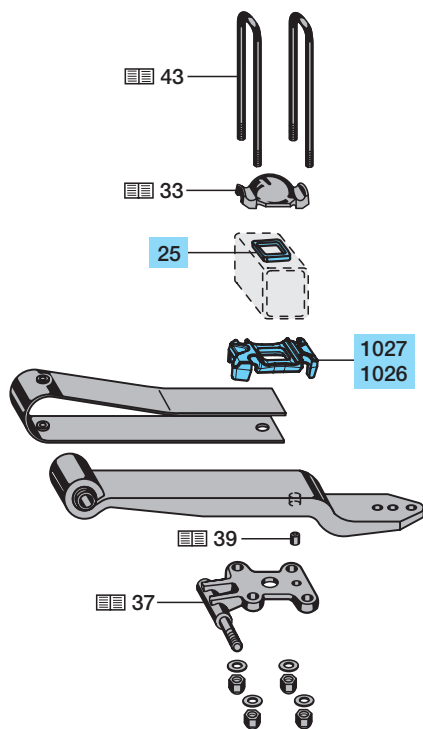
2.2 Clamped axle spring seat assembly

Spring seats for clamped axle spring seat assembly

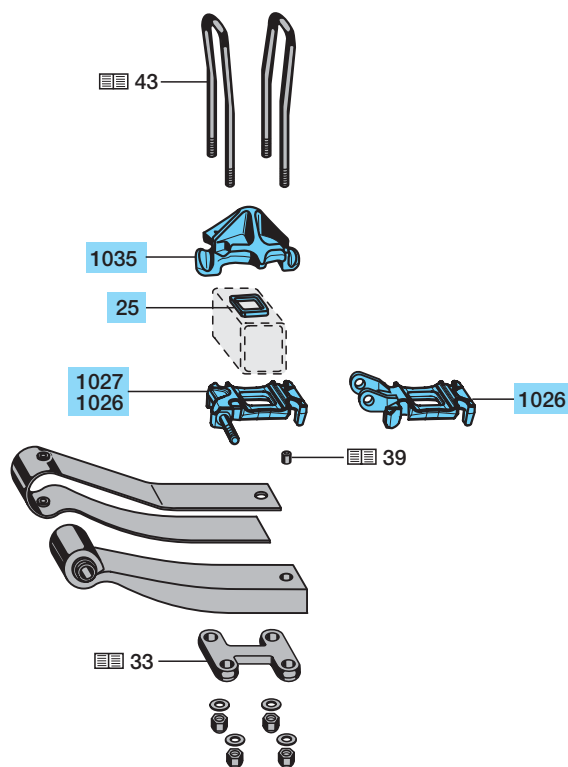
ALII
Trailing arms 70 mm wide, above mounted



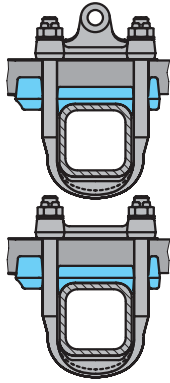
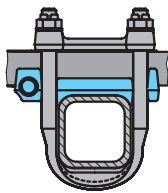
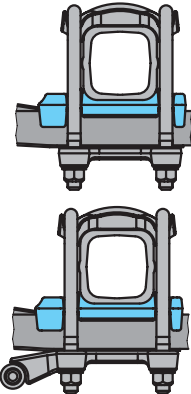
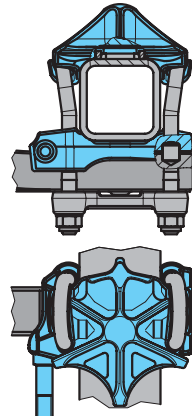
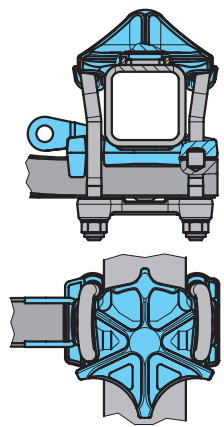
ALII
Trailing arms 70 mm wide, below mounted



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



Clamped axle spring seat assembly 2.2

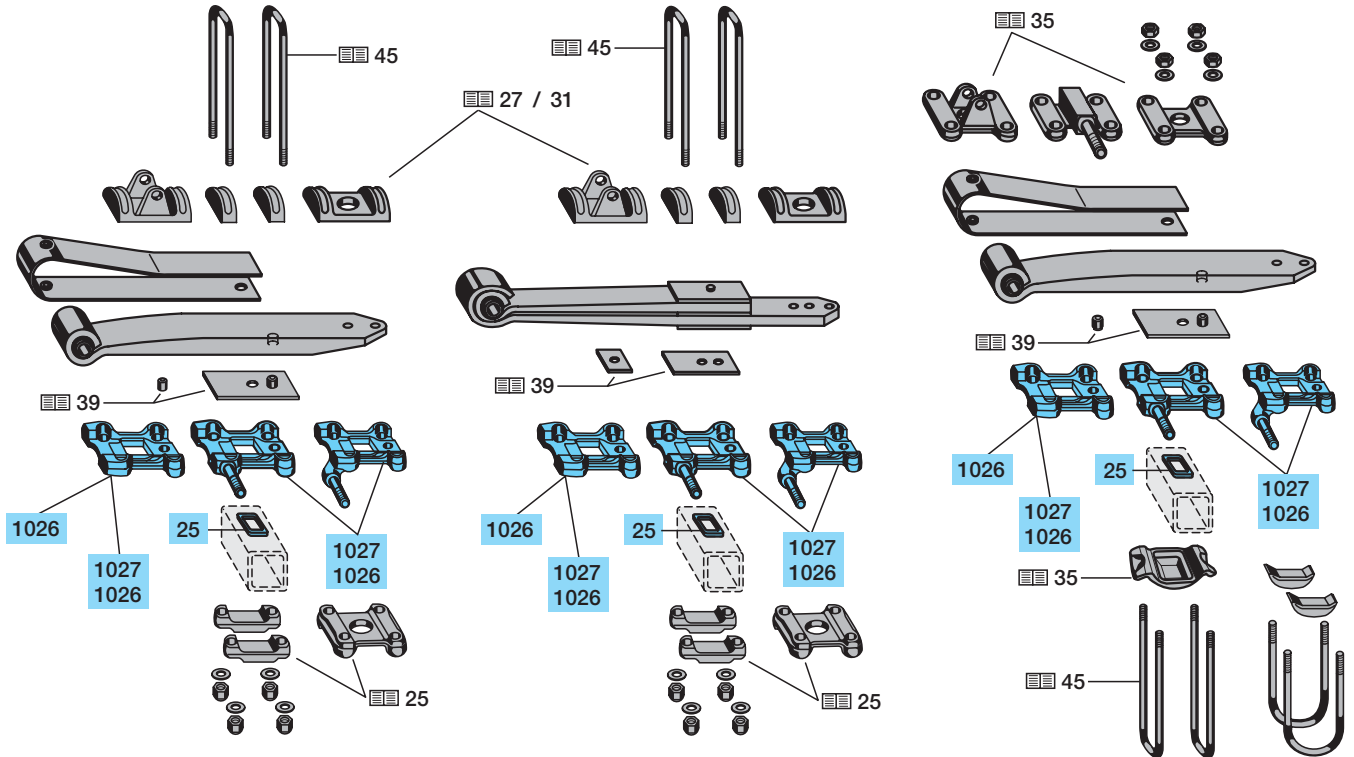
Spring seats for clamped axle spring seat assembly							
Spring seats, trailing arms 70 mm wide							
Trailing arms 70 mm wide, above mounted							
		Spring seat without shock absorber attachment Exec. A L ..		Spring seats with shock absorber attachment Exec. B LI 1..			
							
Item	Designation	AK	BPW Code no.	BPW Code no.			
25	Profiled part (Centring frame)	<input type="checkbox"/> 120	03.295.46.20.0	03.295.46.20.0			
1026	Spring seat, above right	<input type="checkbox"/> 120	03.032.21.14.0 1x	05.032.21.18.0 1x			
1027	Spring seat, above left		03.032.21.15.0 1x	05.032.21.19.0 1x			
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	AK	BPW Code no.	BPW Code no.	BPW Code no.		
25	Profiled part (Centring frame)	<input type="checkbox"/> 120	03.295.46.20.0	03.295.46.20.0	03.295.46.20.0		
1026	Spring seat, below right	<input type="checkbox"/> 120	03.032.21.14.0 1x	05.032.21.22.0 1x			
1027	Spring seat, below left		03.032.21.15.0 1x	05.032.21.23.0 1x			
1026	Spring seat, below	<input type="checkbox"/> 120			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		

AL

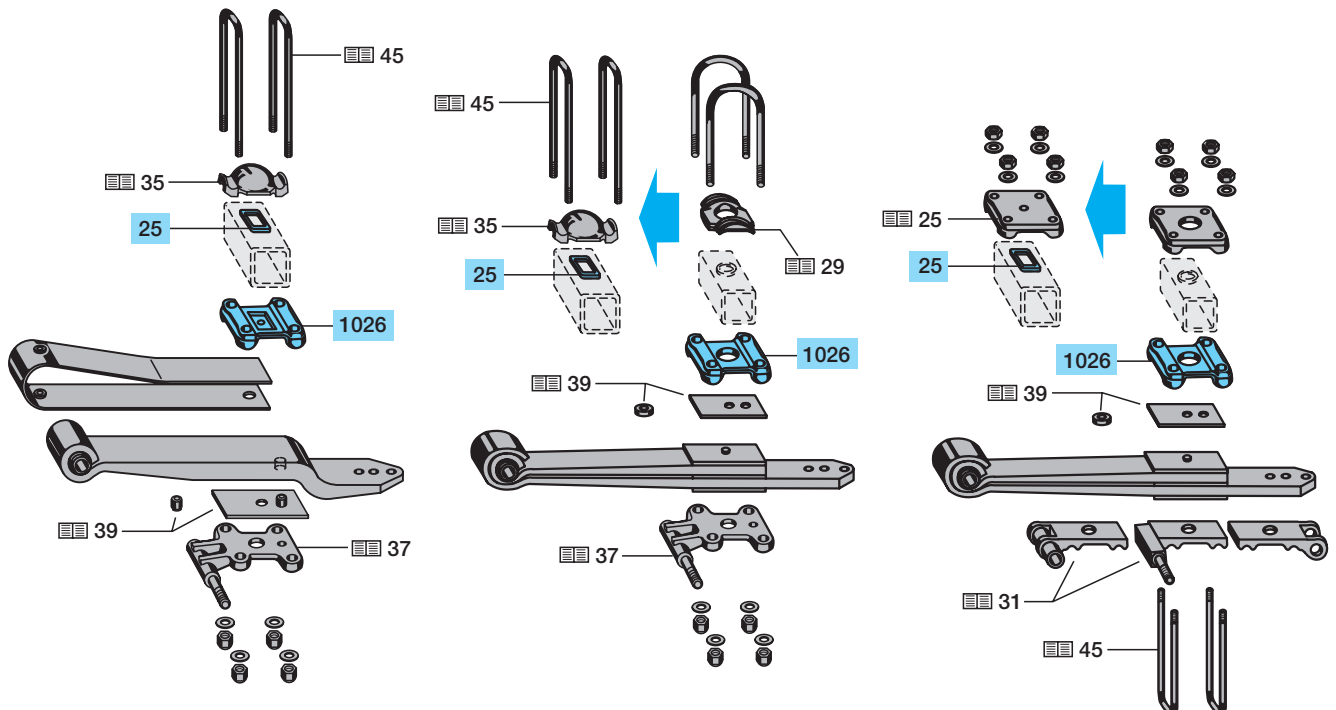
2.2 Clamped axle spring seat assembly

Spring seats for clamped axle spring seat assembly

Trailing arms 100 mm wide, above mounted



Trailing arms 100 mm wide, below mounted



Clamped axle spring seat assembly 2.2

SL

AL

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	AK	BPW Code no.	BPW Code no.	BPW Code no.
25	Profiled part (Centring frame)	<input type="checkbox"/> 120 <input type="checkbox"/> 150	03.295.46.20.0	03.295.46.20.0	03.295.46.20.0
1026	Spring seat, above right	<input type="checkbox"/> 120	03.032.26.44.0 1x	05.032.26.50.0 1x	05.032.26.46.0 1x
1027	Spring seat, above left	<input type="checkbox"/> 120	03.032.26.43.0 1x	05.032.26.49.0 1x	05.032.26.45.0 1x
1026	Spring seat, above	<input type="checkbox"/> 150	03.032.10.99.0 2x		
1026	Spring seat, above right	<input type="checkbox"/> 150		05.032.11.04.0 1x	05.032.11.06.0 1x
1027	Spring seat, above left	<input type="checkbox"/> 150		05.032.11.03.0 1x	05.032.11.05.0 1x

Further executions upon request.

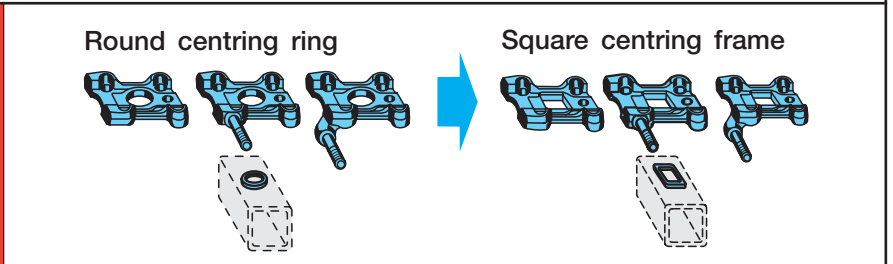
Trailing arms 100 mm wide, below mounted

	Spring seat without shock absorber attachment LU ...		

Item	Designation	AK	BPW Code no.	Fig.
25	Profiled part (Centring frame)	<input type="checkbox"/> 120 <input type="checkbox"/> 150	03.295.46.20.0	
1026	Spring seat, below	<input type="checkbox"/> 120	03.032.27.62.0 2x	a
1026	Spring seat, below	<input type="checkbox"/> 120	03.032.26.21.0 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

Further executions upon request.

Axle mountings with round centring ring are replaced by axle mountings with square centring frame.
 Change over if replacement is required.
 Weld new square centring frame onto the axle beam and use spring seats for square centring.
 Follow the BPW welding guidelines!



2.2 Clamped axle spring seat assembly

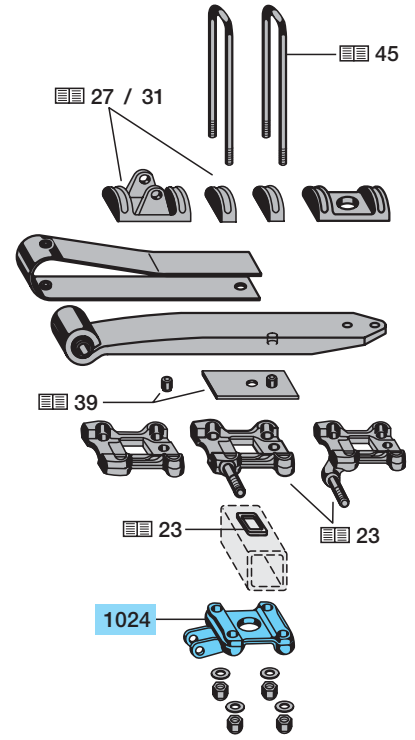
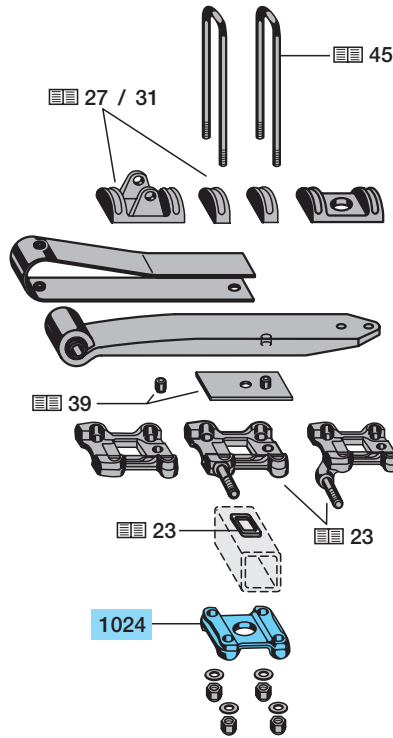
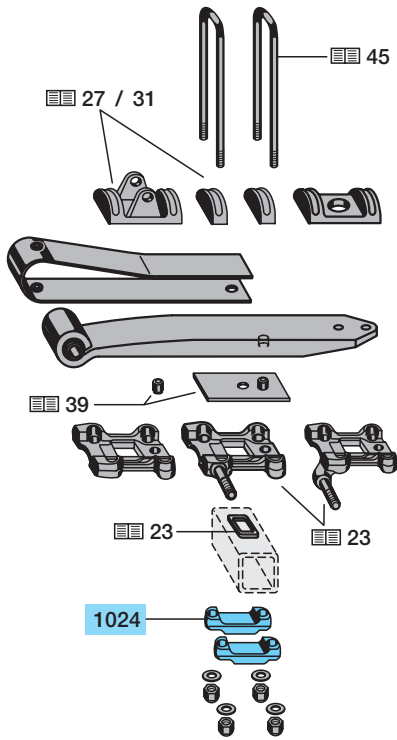
Spring seats for clamped axle spring seat assembly

Trailing arms 100 mm wide above mounted

Double bar

Spring seat

Support for U-stabilizer



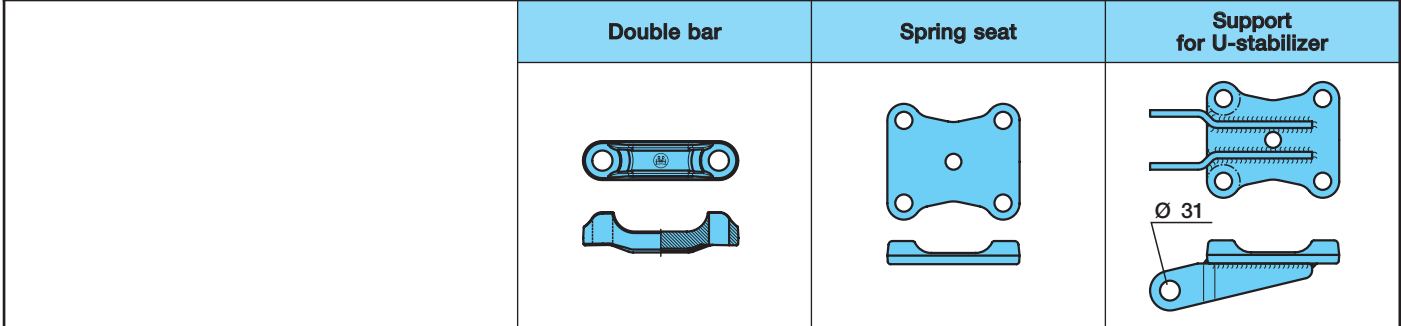
SL

AL

Spring seats for clamped axle spring seat assembly

Lower spring seats, trailing arms 100 mm wide

Trailing arms above mounted



Item	Designation	AK	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

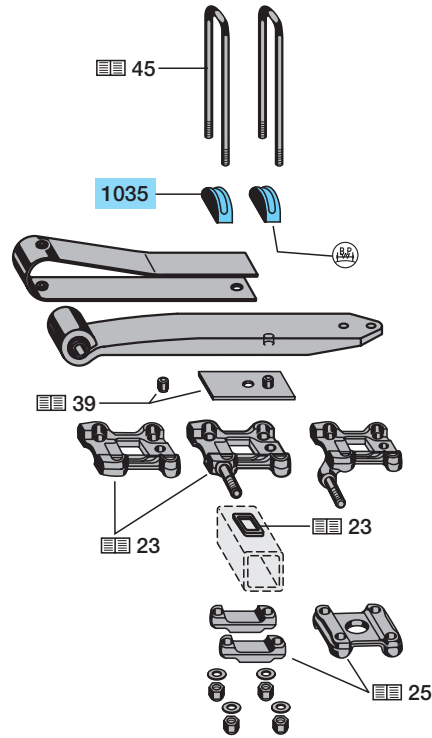
Further executions upon request.

SL
AL

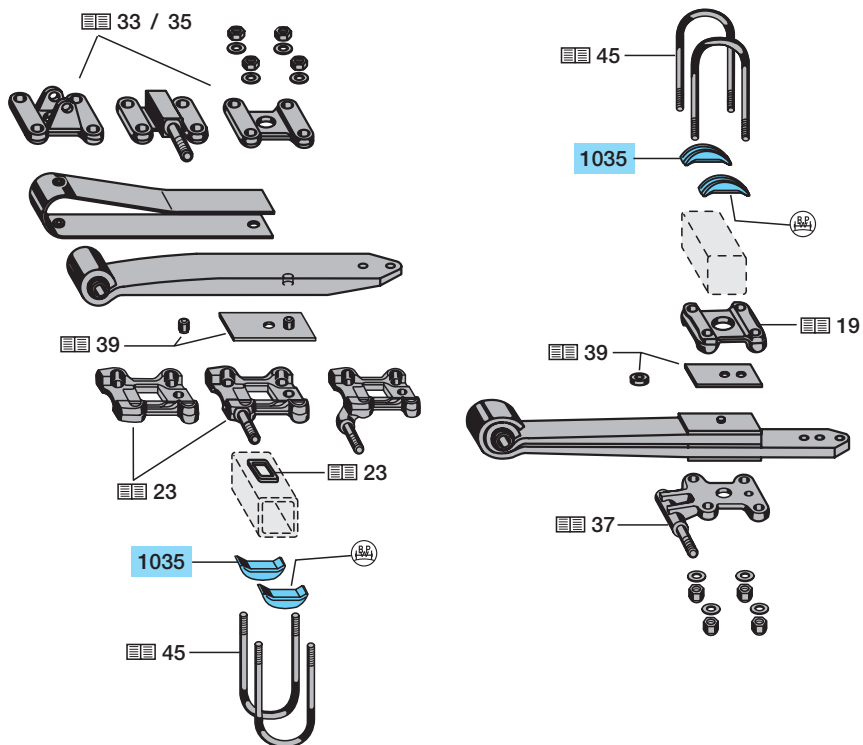
3 Segments, spring plates

Segments

Segment above the trailing arm



Segment on the axle beam

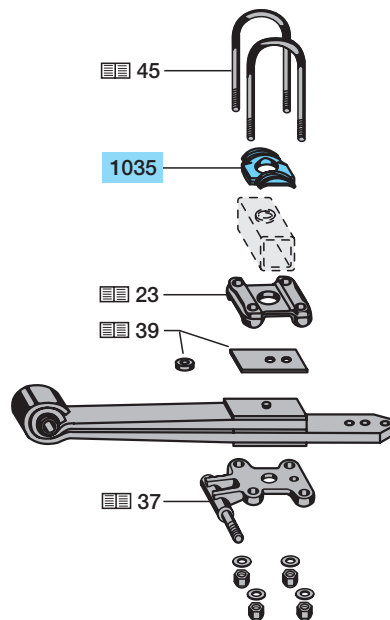


Segments					
Item	Designation	Dimension	BPW Code no.	Application	Fig.
Single segments					
Segment above the trailing arm					
1035	Segment		03.345.21.01.0	<input type="checkbox"/> 120 <input type="checkbox"/> 150	
Segment on the axle beam					
1035	Segment		03.345.23.02.1	<input type="checkbox"/> 120	
			03.345.25.01.1	<input type="checkbox"/> 150	
			03.345.23.09.0 ¹⁾	<input type="checkbox"/> 120	
			03.345.23.12.0 ¹⁾	<input checked="" type="checkbox"/> 120 solid	
			03.345.23.03.0 *	<input checked="" type="checkbox"/> 120 solid	
			03.345.25.04.0 *	<input checked="" type="checkbox"/> 150 solid	
¹⁾ for flattened spring U-bolts (disc brake) * welded on the axle beam					

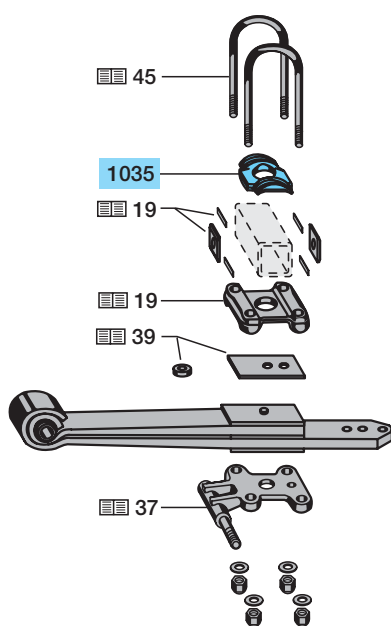
3 Segments, spring plates

Segments

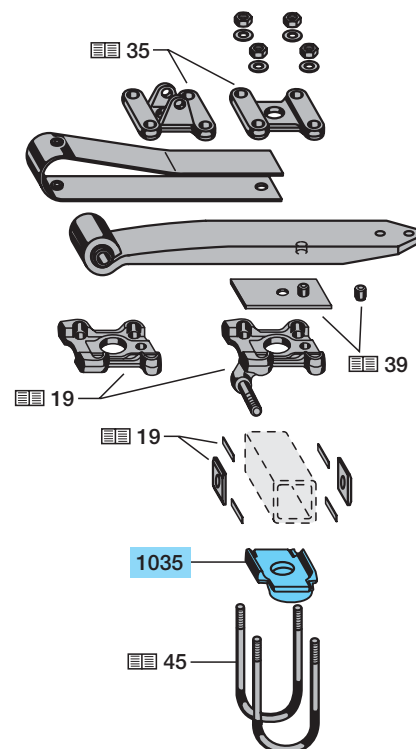
Double segment, round centring ring, clamped axle spring seat assembly



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

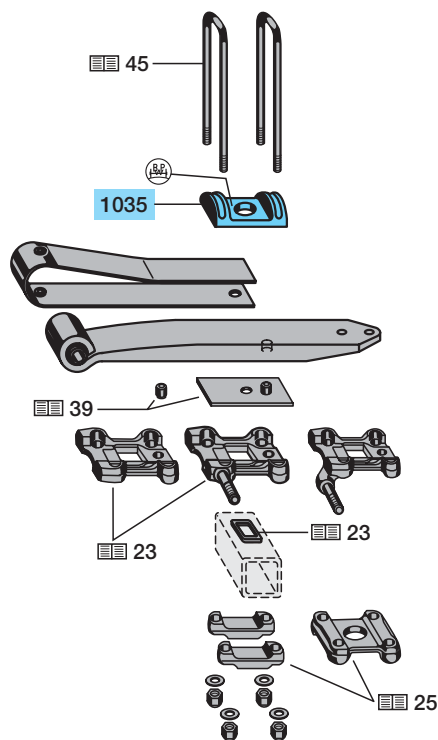


Segments					
Item	Designation	Dimension	BPW Code no.	Application	Fig.
Double segments					
Double segment, round centring ring, clamped axle spring seat assembly					
1035	Segment		03.345.23.05.1	□ 120	
			03.345.23.10.1 ¹⁾	□ 120	
			03.345.25.05.1	□ 150	
¹⁾ for flattened spring U-bolts (disc brake)					
Double segment, welded axle spring seat assembly					
1035	Segment		03.345.23.05.0	□ 120	
			03.345.23.13.0 ¹⁾	□ 120	
			03.345.25.06.0	□ 150	
¹⁾ for flattened spring U-bolts (disc brake)					

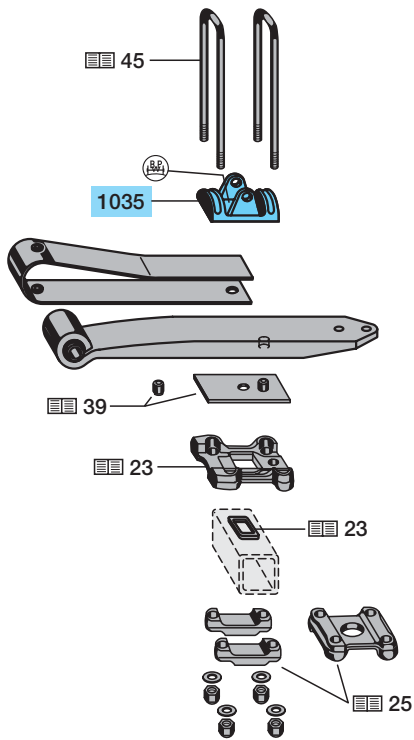
3 Segments, spring plates

Segments, spring plates

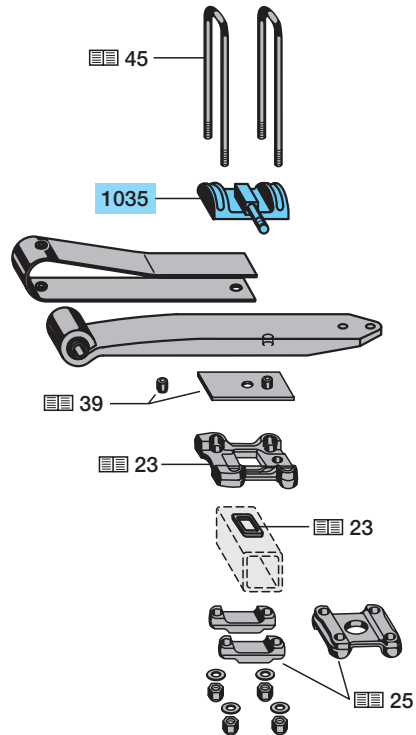
Double segment above the trailing arm



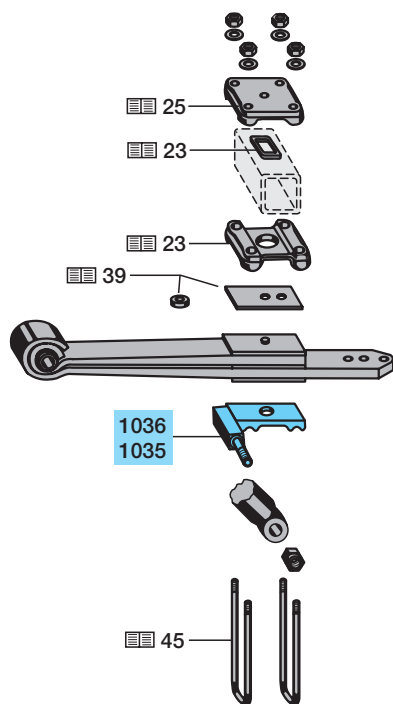
Double segment above the trailing arm for shock absorber attachment with screws



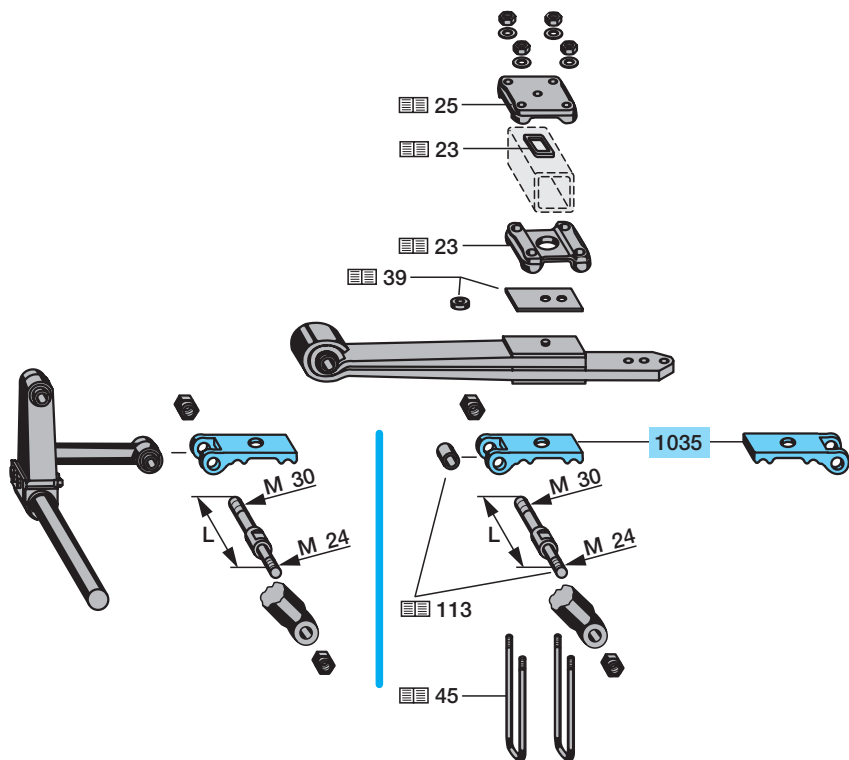
Double segment above the trailing arm for shock absorber attachment with threaded bolts



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



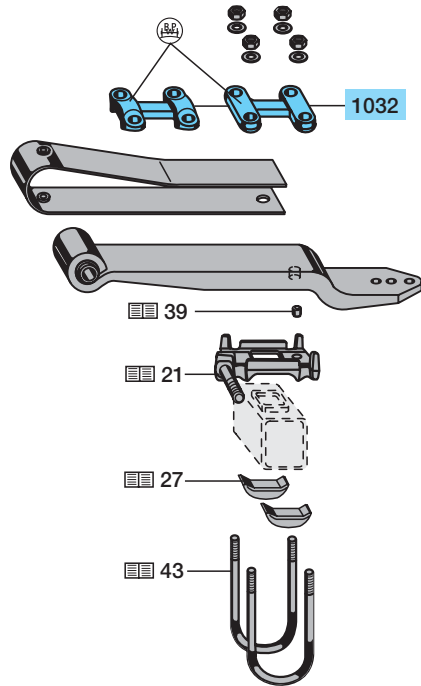
Segments, spring plates					
Item	Designation	BPW Code no.	Application	Dimension	Fig.
Double segments, spring U-bolt next to the axle beam, trailing arms 100 mm wide					
Double segment above the trailing arm					
1035	Spring plate	03.145.10.39.0	□ 120	x = 150	
		03.145.10.40.0	□ 150	x = 180	
Double 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 1036	Spring plate, left Spring plate, right	05.145.10.23.0 05.145.10.22.0	□ 120 / □ 150	x = 150 / 180	
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	
Further executions upon request.					

3 Segments, spring plates

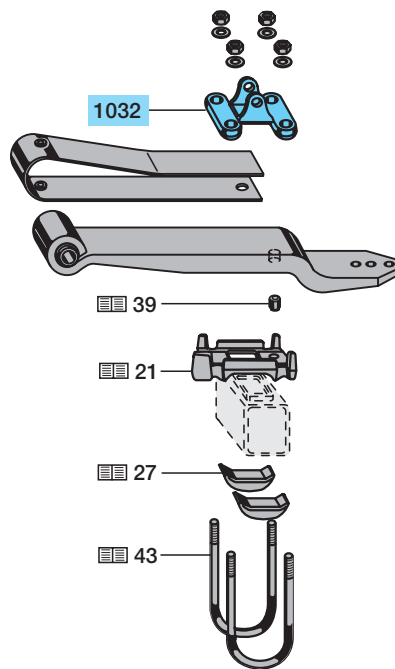
Spring plates

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

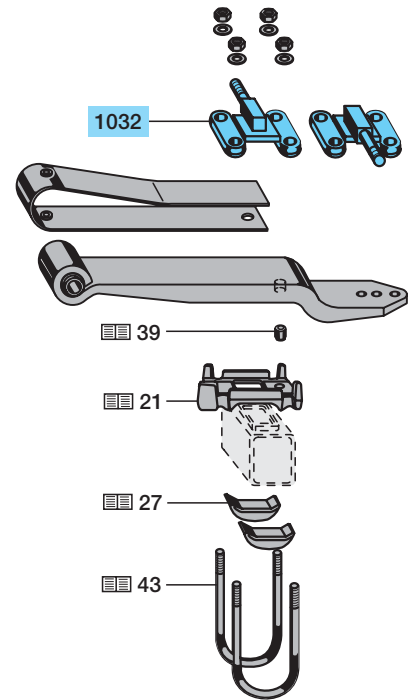
Spring U-bolts mounted from below



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

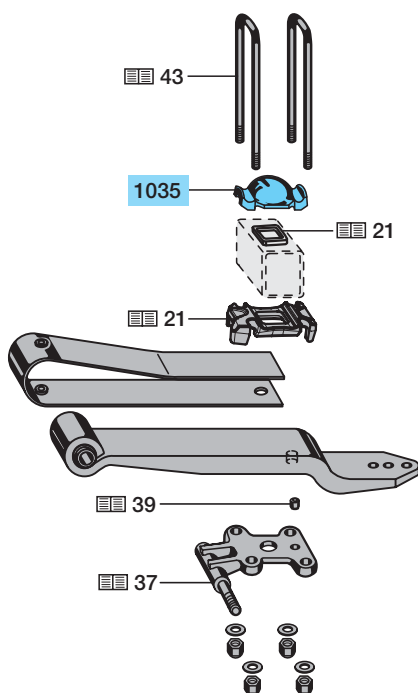


Spring U-bolts mounted from below, spring plate for shock absorber attachment with threaded bolts



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



Spring plates					
Item	Designation	BPW Code no.	Application	Dimension	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	□ 120	A 92 / B 150	
1032	Spring plate	03.145.25.04.0	□ 120	A 92 / B 150	
Spring plate for shock absorber attachment with screws					
1032	Spring plate	05.145.22.84.0	□ 120	A 92 / B 150	
Spring plate for shock absorber attachment with threaded bolts					
1032	Spring plate	05.145.22.92.0	□ 120	A 92 / B 150	
Spring U-bolts mounted from above, trailing arms 70 mm wide (AL II) mounted from below					
Spring U-bolt next to the axle beam					
1035	Spring plate	03.032.26.95.0	□ 120	x = 150	

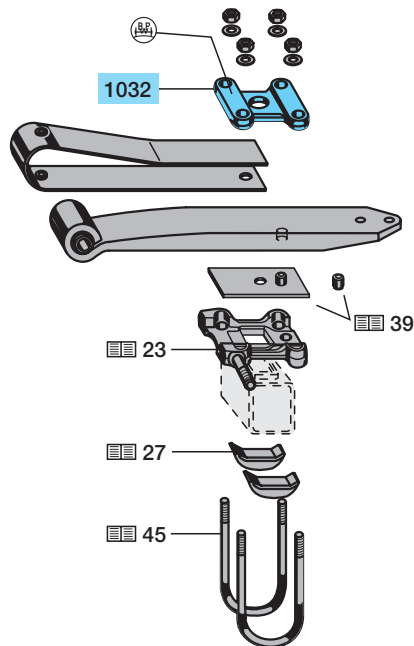
AL

3 Segments, spring plates

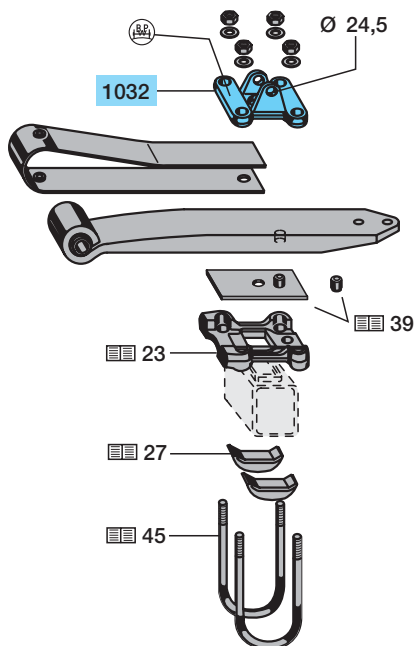
Spring plates

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

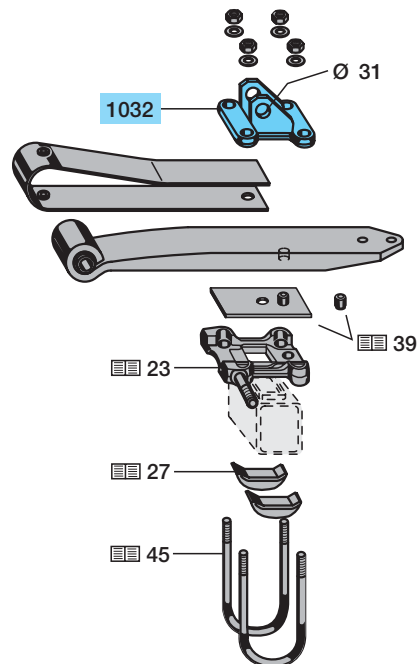
Spring U-bolts mounted from below, spring plate without shock absorber attachment / without U-stabilizer



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

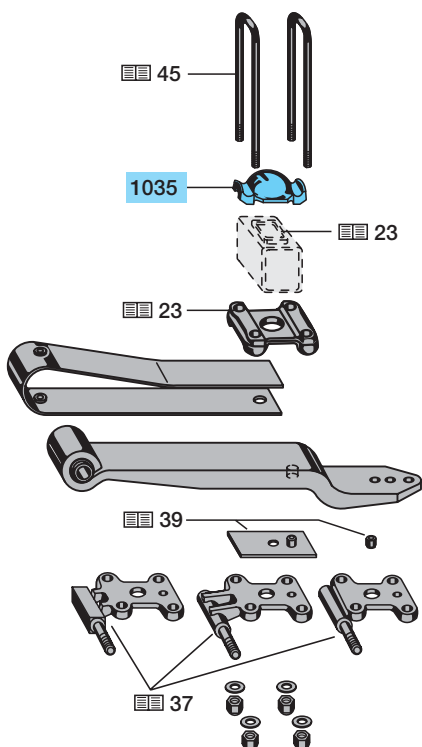


Spring U-bolts mounted from below, spring plate for U-stabilizer attachment with screws

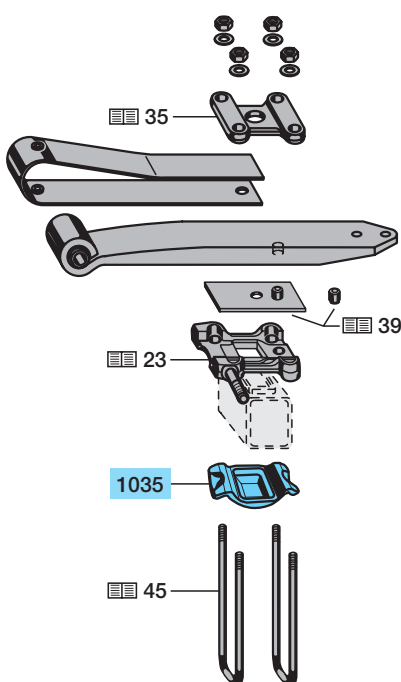


Spring U-bolt next to the axle beam, trailing arms 100 mm wide

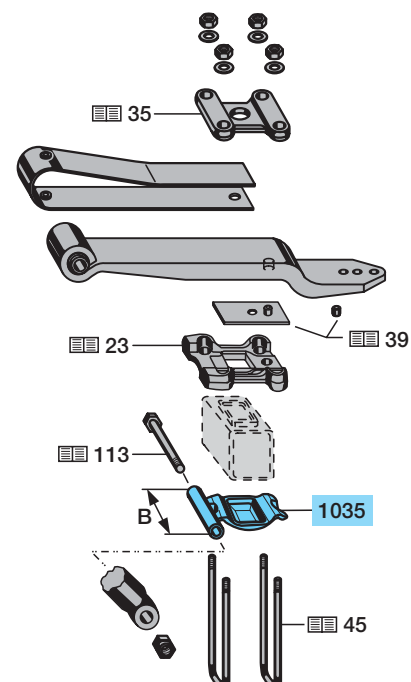
Spring U-bolts mounted from above, spring U-bolt next to the axle beam



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



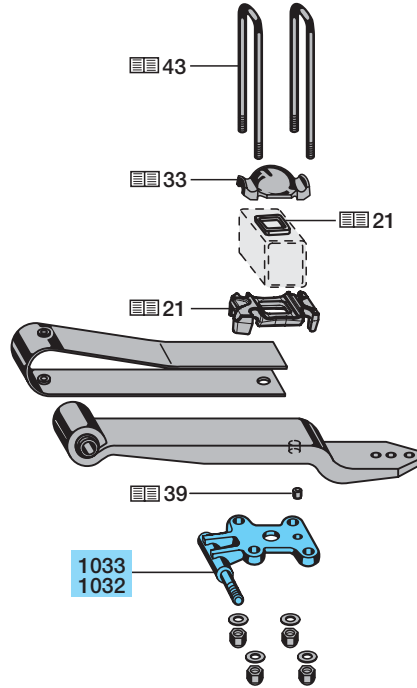
Spring plates					
Item	Designation	BPW Code no.	Application	Dimension	Fig.
Spring U-bolt encloses the axle beam, trailing arms 100 mm wide					
Spring plate without shock absorber attachment / without U-stabilizer attachment					
1032	Spring plate	03.145.22.01.0	□ 120	A 125 / B 150	
		03.145.22.06.0	∅ 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 H 60	05.145.22.38.0	□ 120	A 125 / B 150	
	Spring plate H 70	05.145.22.37.0	□ 120	A 125 / B 150	
	Spring plate H 60	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	03.032.26.15.0	□ 120	x = 150	
		03.032.26.27.0 *	□ 120	x = 150	
		03.032.11.14.0	□ 150	x = 180	
		03.032.11.18.0 *	□ 150	x = 180	
		* with bore hole ∅ 20			
Spring plate for shock absorber attachment with screws					
1035	Spring plate	05.032.26.65.0	□ 120	B = 144 / x = 150	
		05.032.26.51.0	□ 120	B = 187 / x = 150	
1035	Spring plate	05.032.26.88.0	□ 120	x = 150	

3 Segments, spring plates

Spring plates

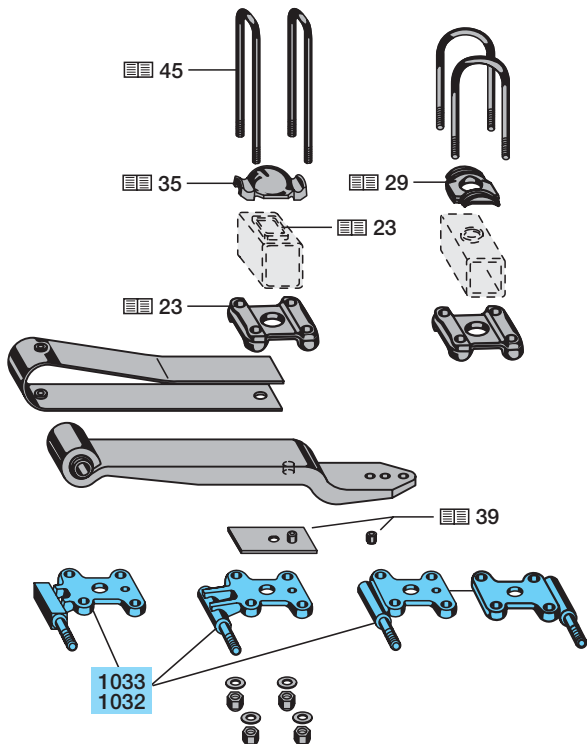
Trailing arms 70 mm wide

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

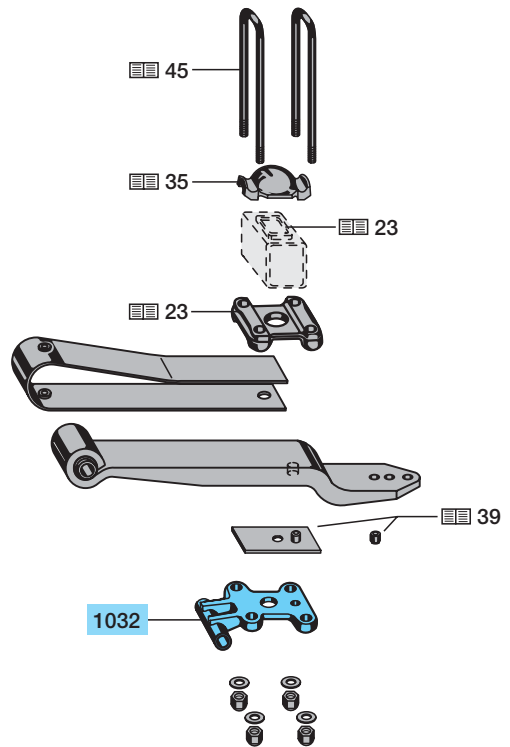


Trailing arms 100 mm wide

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	Dimension						Fig.	
Spring U-bolts mounted from above											
Spring plate for shock absorber attachment with threaded bolts											
				A	B	C	X	H	V		
Trailing arms 70 mm wide											
1032	Spring plate, right	05.145.22.80.0	□ 120	92	150	77.5	170	42	-		
1033	Spring plate, left	05.145.22.81.0		92	150	77.5	260	51	-		
		05.145.22.86.0 05.145.22.85.0		92	150	77.5	270	42	-		
		05.145.22.82.0 05.145.22.83.0		92	150	77.5	270	42	-		
Trailing arms 100 mm wide											
		05.145.22.18.0 05.145.22.17.0	□ 120	125	150	112.5	30	30	-		
		05.145.22.08.0 05.145.22.09.0		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 05.145.22.43.0		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	62	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		-

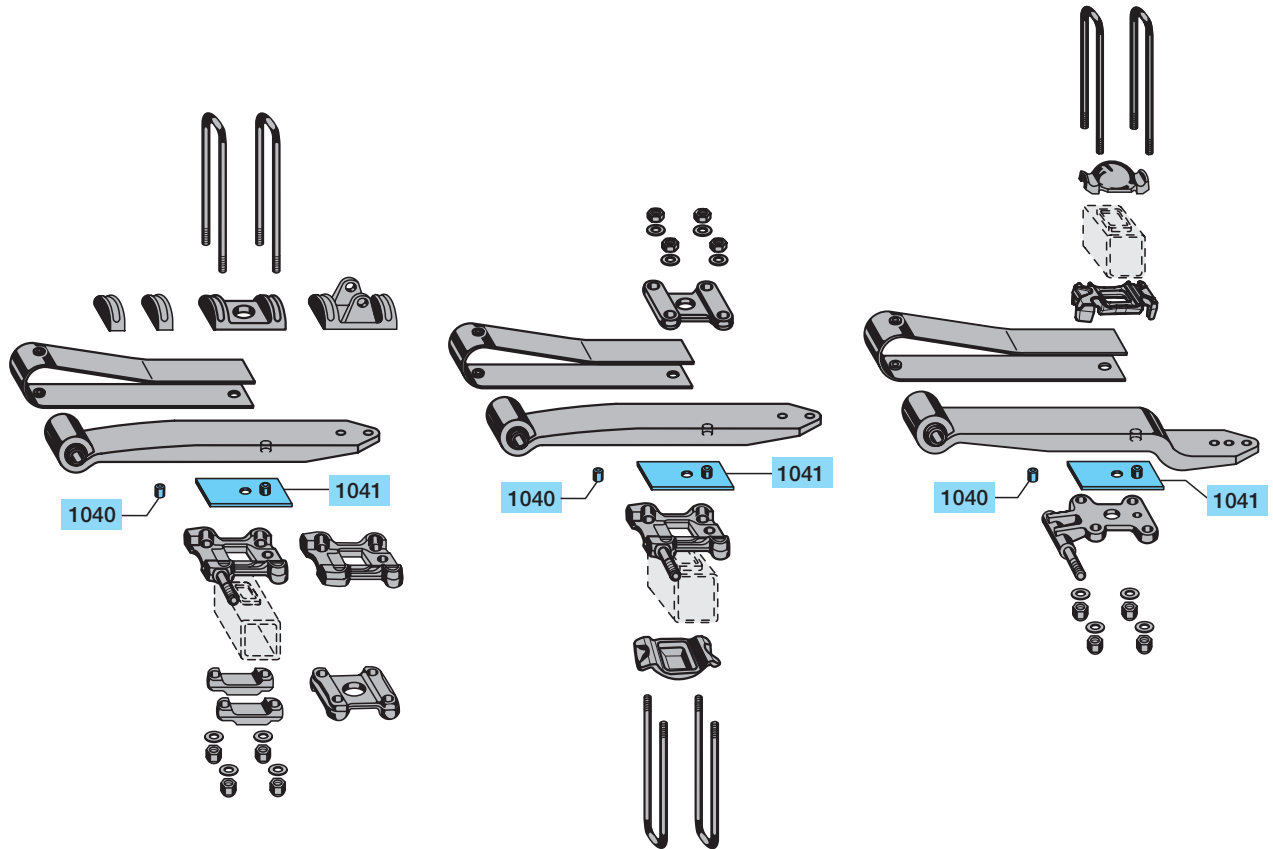
* Shock absorber attachment bolt Ø 28 (standard Ø 24)

Spring plate for shock absorber attachment with screws										
1032	Spring plate	05.145.22.57.0	□ 120	125	150	72	170	42	-	

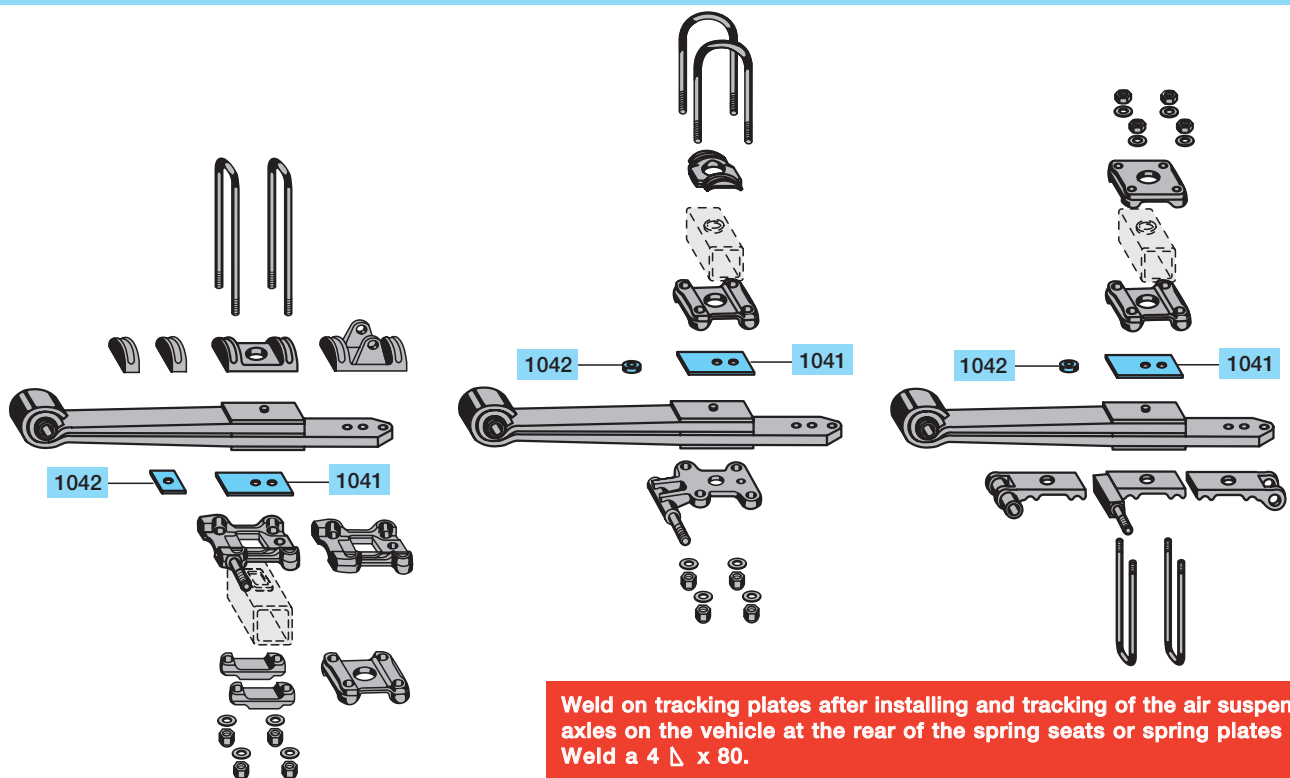
4 Centring bolts, tracking plates

Centring bolts, tracking plates

Single leaf trailing arm without centre bolt



Double or sing leaf trailing arm with centre bolt



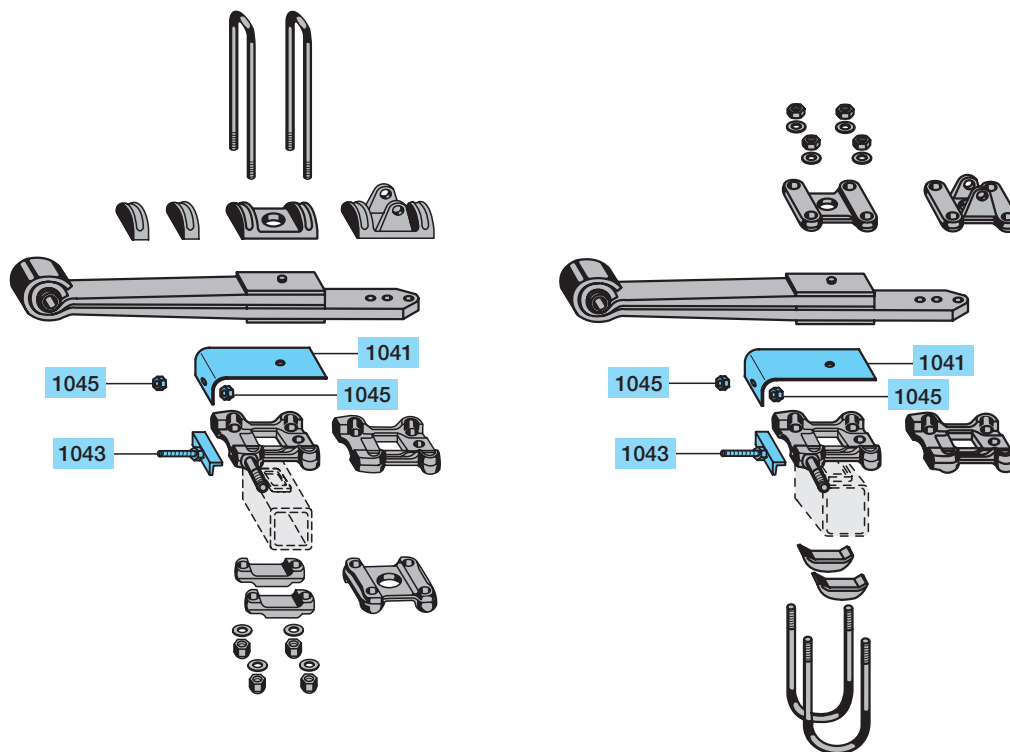
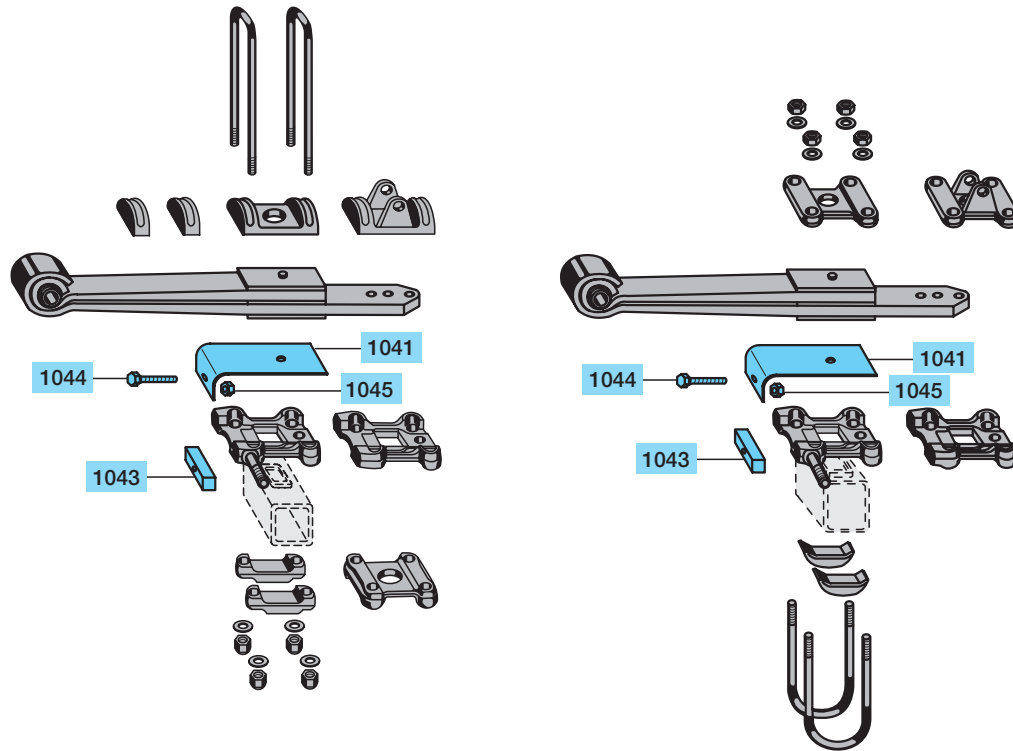
Weld on tracking plates after installing and tracking of the air suspension axles on the vehicle at the rear of the spring seats or spring plates - Weld a 4 ∇ x 80.

 Do not weld the trailing arms !

Centring bolts, tracking plates			
Item	Designation	Remark	BPW Code no. Dimension
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"/> 150 <input type="checkbox"/> 150	05.281.36.15.0 235 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"/> 150 <input type="checkbox"/> 150 <input type="checkbox"/> 150	03.281.36.14.0 235 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)		03.320.34.50.0 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

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. Dimension
Double or sing leaf trailing arm with centre bolt (O / OM / OT / SLO / SLM / SLU)			
			Adjustable tracking plates
1041	Shaped plate	□ 120	03.161.57.05.0
	(Tracking plate)	□ 150	03.161.57.04.0
1043	Block		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	03.161.57.04.0
	(Tracking plate)		
1043	Support		05.189.10.20.0
1045	Hexagon nut		02.5202.20.80 M 16 / 934

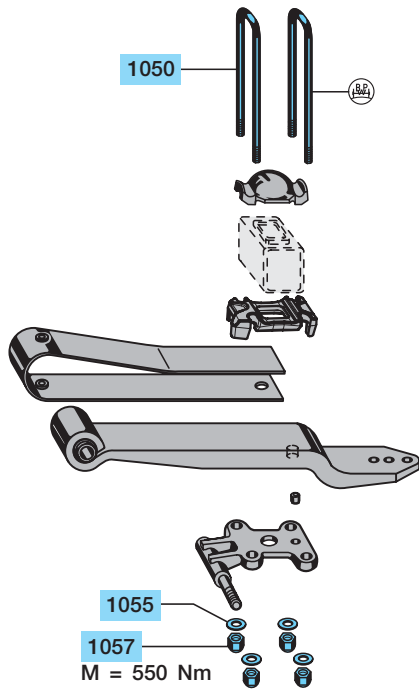
O

SL

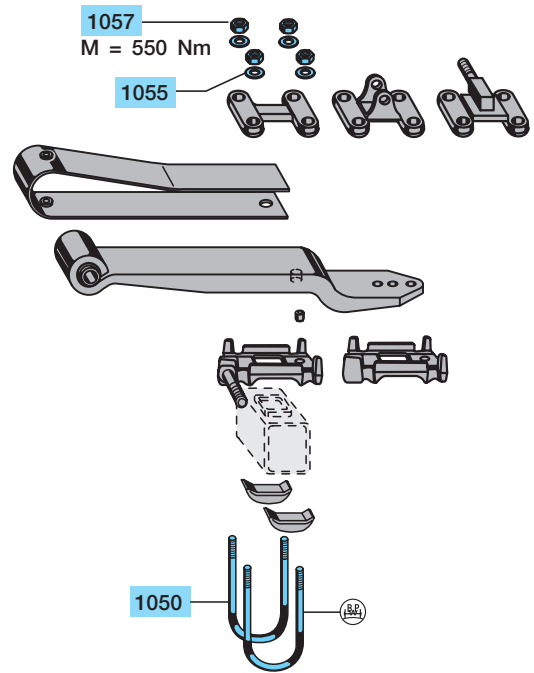
5 Spring U-bolts

Spring U-bolts, trailing arms 70 mm wide

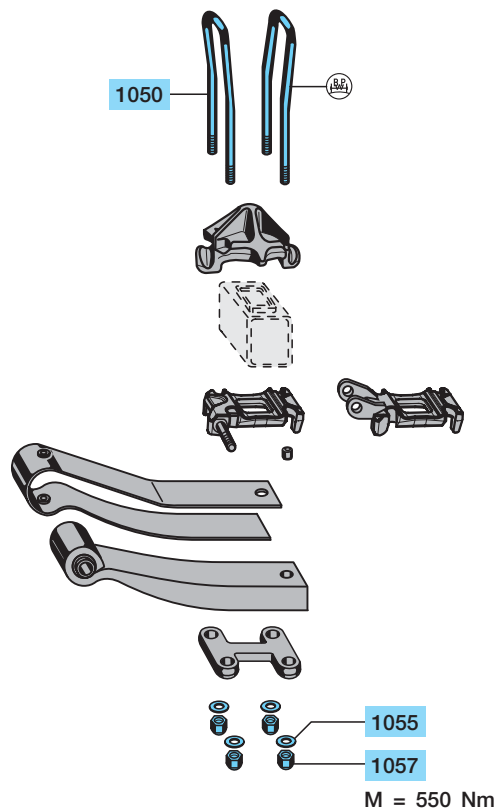
Spring U-bolt next to the axle beam



Spring U-bolt encloses the axle beam



Spring U-bolt next to the axle beam
AirlightDirect



AL

Spring U-bolts, trailing arms 70 mm wide

Spring U-bolts for series AL II, trailing arms 70 mm wide		
	Spring U-bolt front next to axle beam	Spring U-bolt encloses the axle beam
L	□ 120 A = 92	□ 120 A = 150
	Item 1050 BPW Code no.	
256	-	03.138.37.05.4
260	-	03.138.37.04.4
264	-	03.138.37.06.4
280	03.138.30.07.4	03.138.37.03.4
290	-	03.138.37.02.4

Spring U-bolts for Airlight^{Direct}, trailing arms 70 mm wide

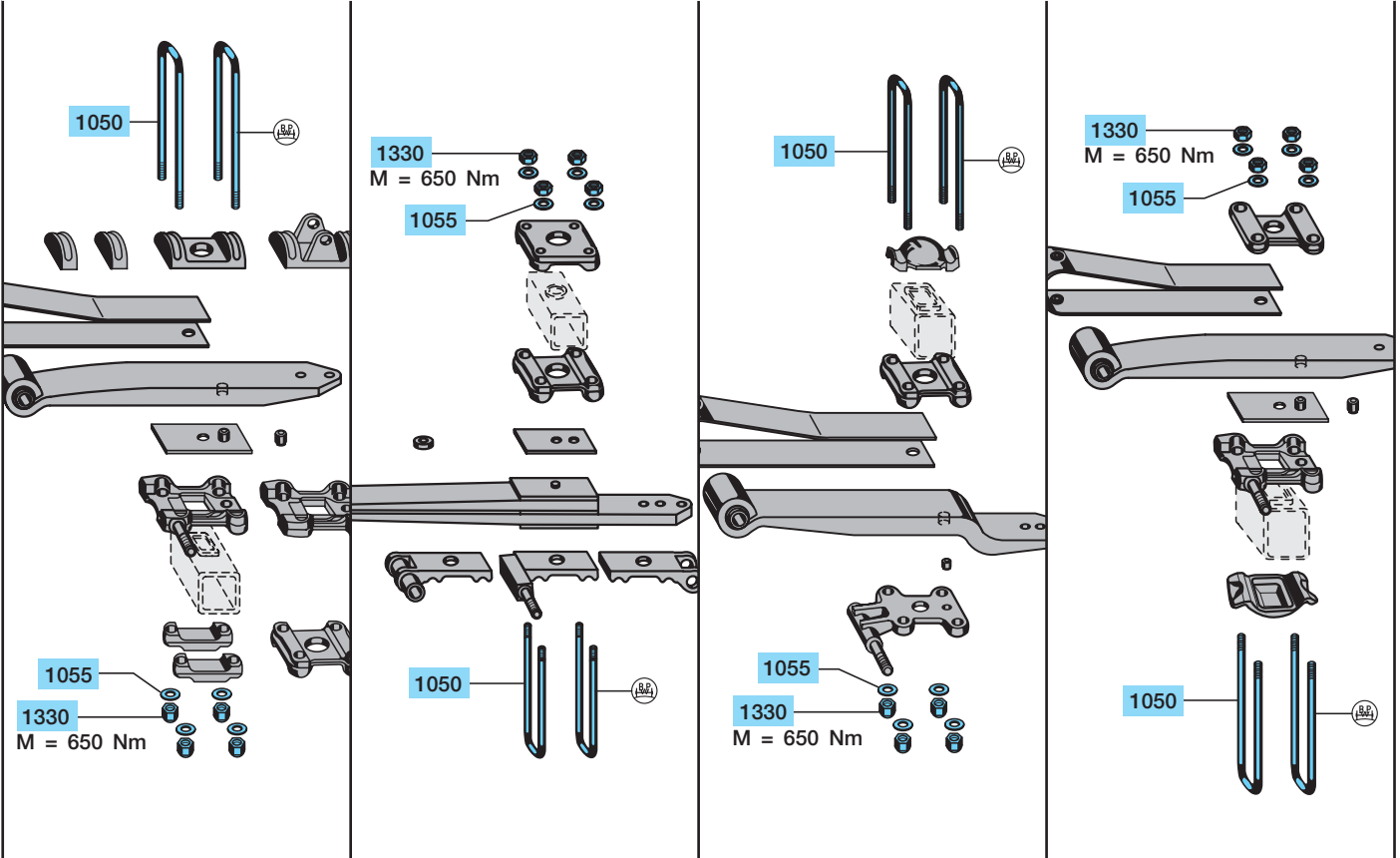
	Spring U-bolt front next to axle beam
L	□ 120 A = 92
	Item 1050 BPW Code no.
252	03.138.30.18.4

1055	Washer	02.5401.23.07	Ø 23 / 125
1057	Lock nut	03.260.04.19.0	M 22 / SW 32 / H 22

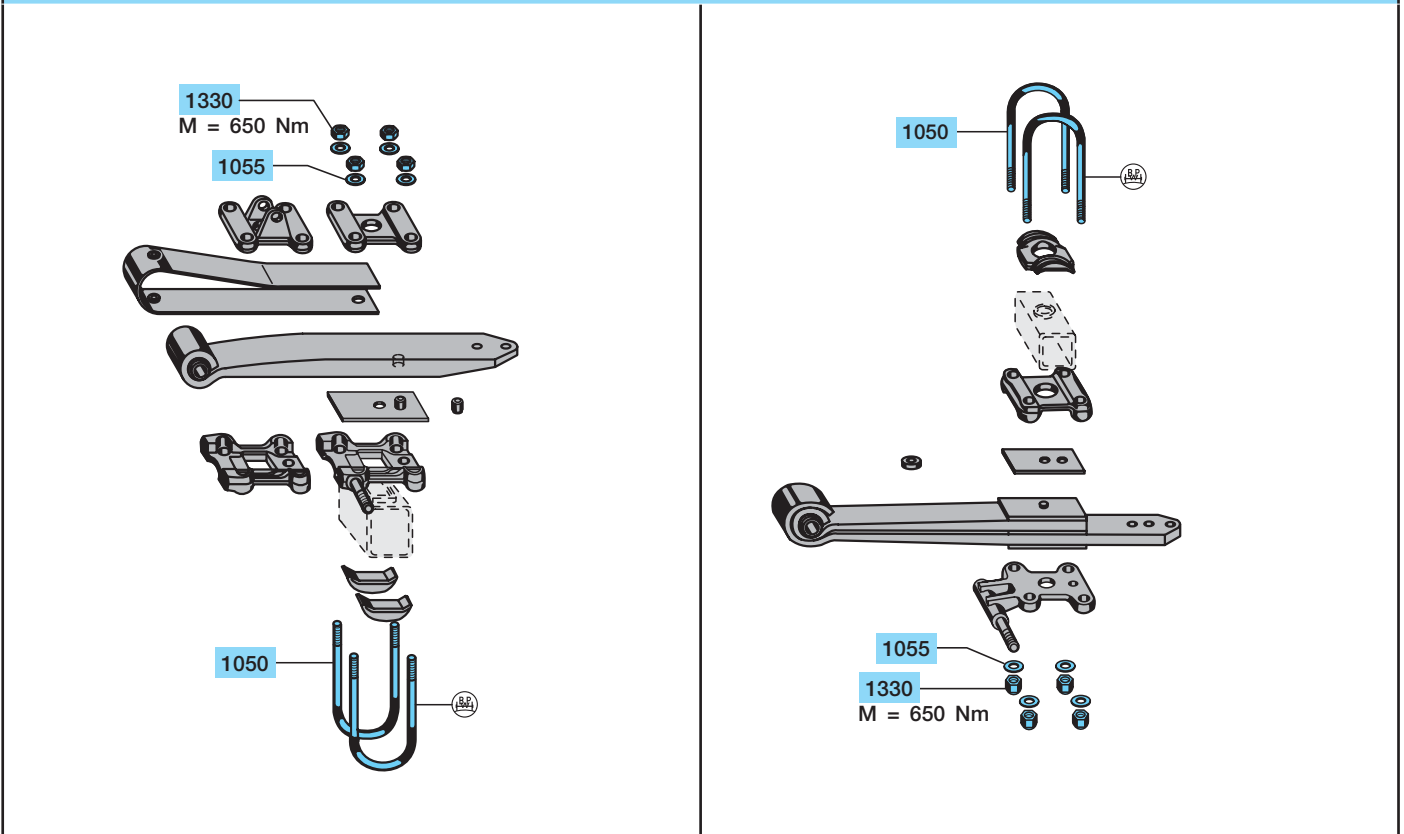
5 Spring U-bolts

Spring U-bolts, trailing arms 100 mm wide

Spring U-bolt next to the axle beam



Spring U-bolt encloses the axle beam



Spring U-bolts, trailing arms 100 mm wide

Spring U-bolts for series O / SL / AL, trailing arms 100 mm wide

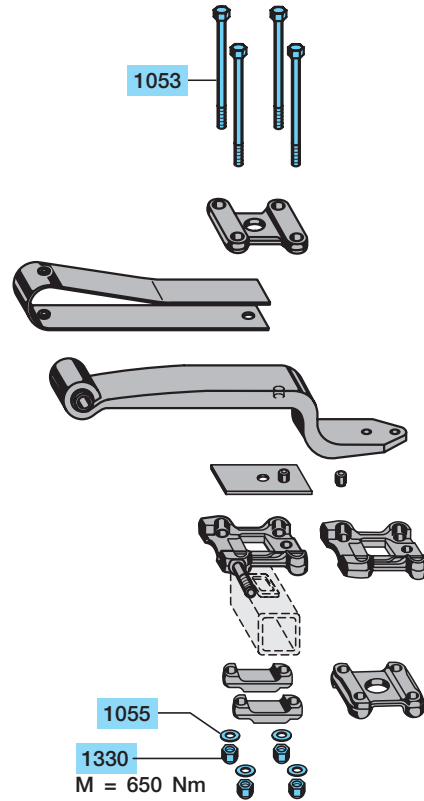
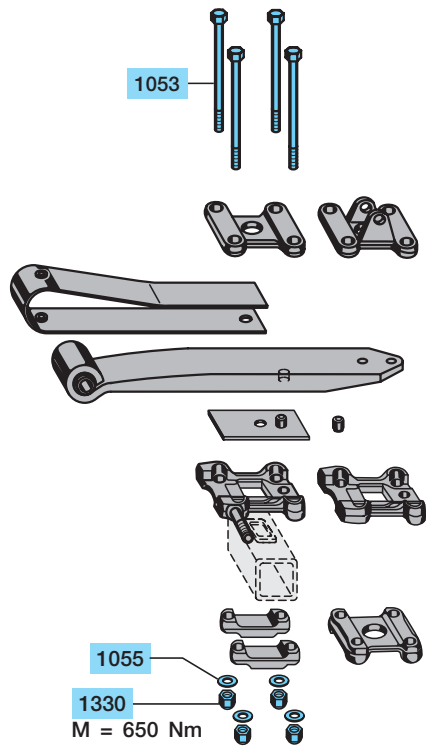
	Spring U-bolt front next to axle beam	Spring U-bolt encloses the axle beam			
L	□ 120 / □ 150 A = 125 (L)	□ 120 A = 152 (L)	□ 120 Disc brakes A = 152 (L)	□ 150 A = 180 (L)	∅ 127 A = 152 (L)
	Item 1050 BPW Code no.				
190	-	03.138.41.31.4 (190)	-	-	-
210	-	03.138.41.32.4 (210)	-	-	-
230	03.138.44.21.4 (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)	03.138.41.19.4 (280)	03.138.41.33.4 (285)	-	03.138.41.18.4 (280)
290 - 295	03.138.44.16.4 (292)	03.138.41.17.4 (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)	03.138.41.16.4 (310)	-	-	03.138.41.11.4 (310)
315 - 320	03.138.44.15.4 (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)	03.138.41.26.4 (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)	-
415	-	03.138.41.29.4 (415)	-	-	-
1055	Washer	02.5401.25.07	∅ 25 / 127		
1330	Lock nut	02.5220.74.12	VM 24 / 980-10		

5 Spring U-bolts / hexagon screws

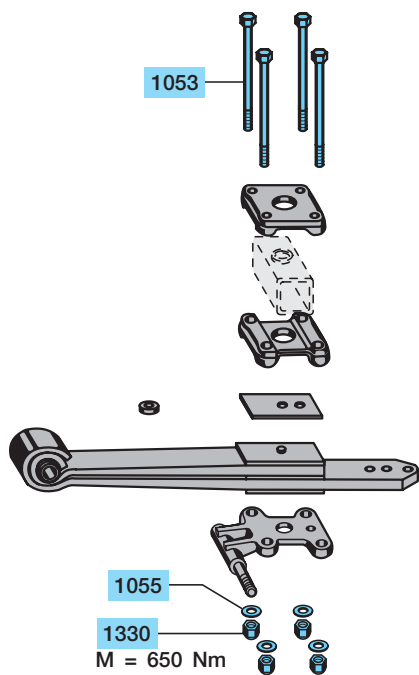
Hexagon screws

SLO / ALO

SLM / ALM



SLU / ALU



Hexagon screws						
Item	Designation	Remark	BPW Code no.	Dimension	Application X	
			□ 120			
1053	Hexagon screw		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	
			02.5023.94.10	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		

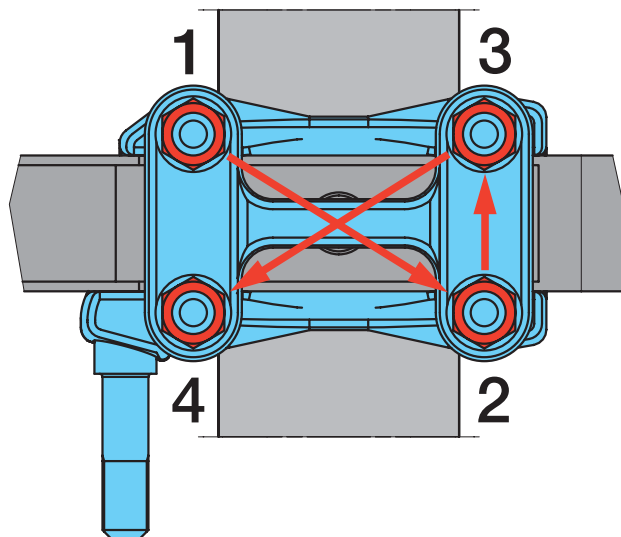
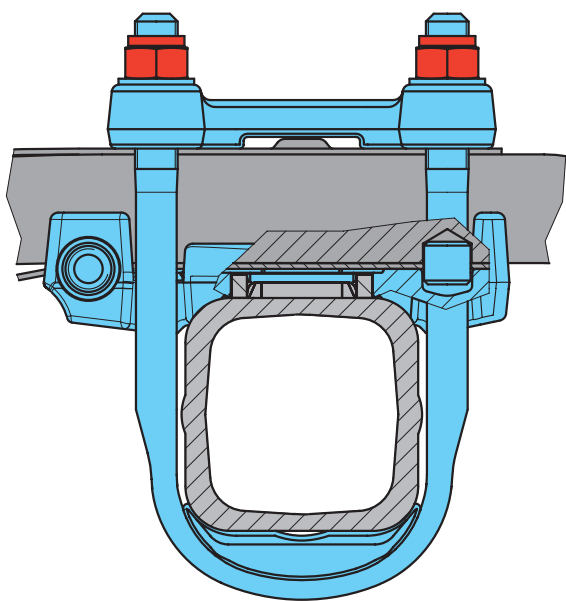
O
SL
AL

5.1 Assembly instructions for clamped axle spring seat assemblies

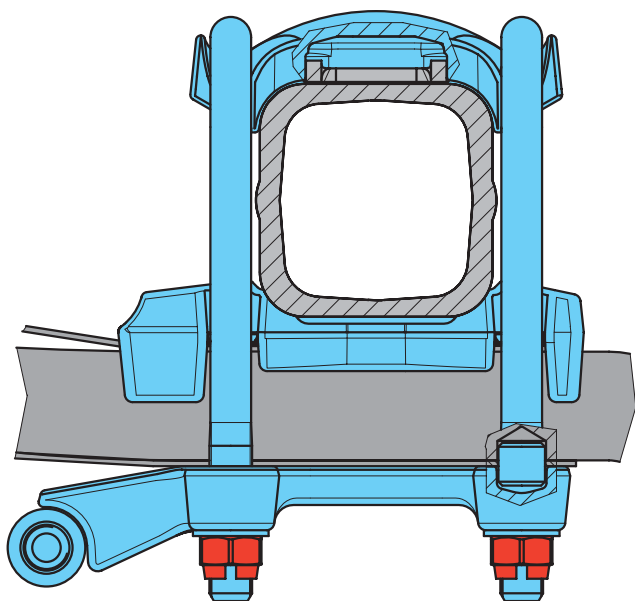
Trailing arms 70 mm wide (AL II)

Series ALO / ALM

AL



Series ALU



Assembly instructions:

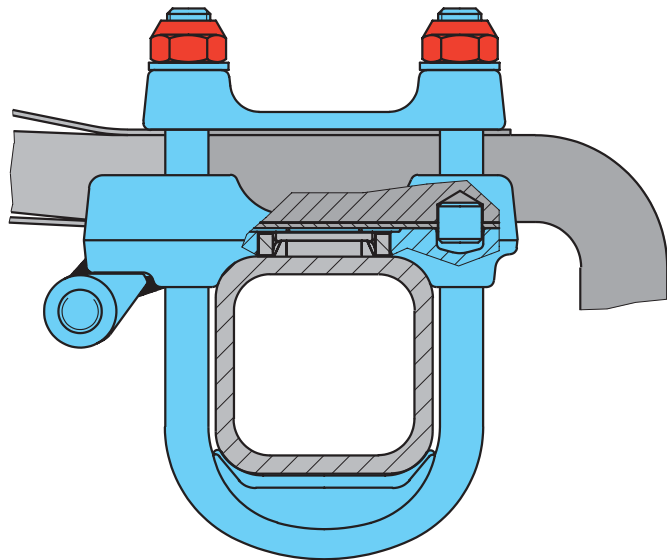
- Parts are to be assembled in line with opposite illustration, further grease spring U-bolts thread.
 - Spring seats and trailing arm are to be aligned parallel to the axle beam and self-locking nuts are to be equally cross-wise tightened until contact to spring plate.
 - Control parallel position of 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.

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

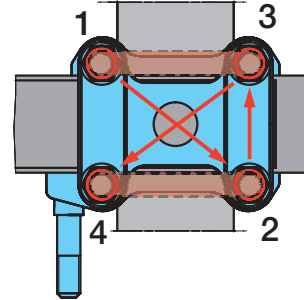
Assembly instructions for clamped axle spring seat assemblies 5 .1

Trailing arms 100 mm wide (SL / AL)

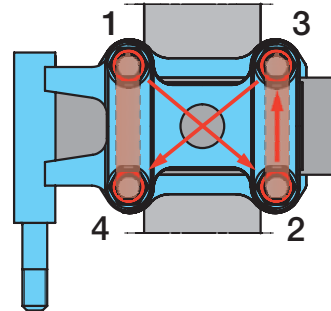
Series SLO / SLM / ALO / ALM



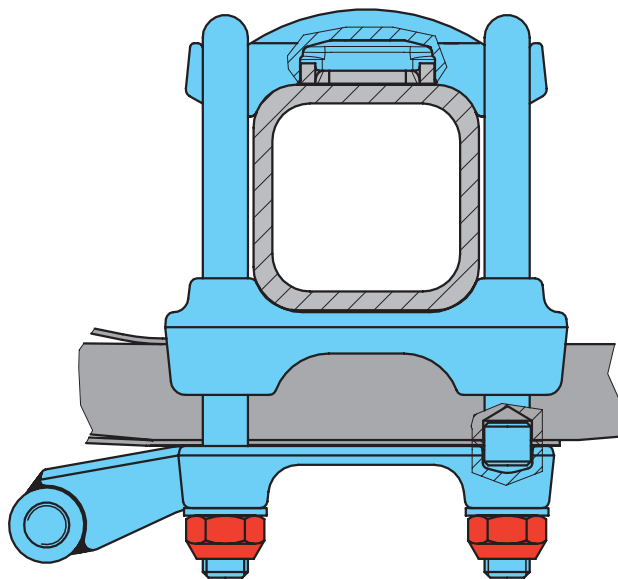
Spring U-bolt encloses the axle beam



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 radii 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)