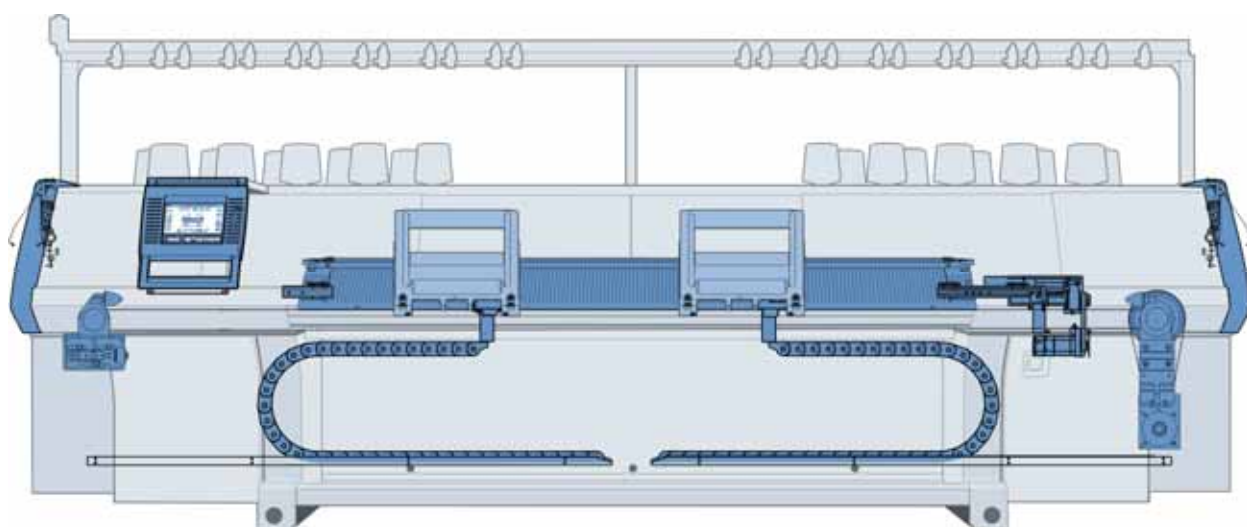


CMS 933 (Type 769)

Component Type 001



Impressum

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The indications of this catalog are without liability.

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Fax: +49 (07121) 313-347

e-mail: spareparts@stoll.com

Introduction

Notes for the order

This catalog serves to order spare parts.

It applies only to the machine type recorded on the title page.

With orders of spare parts we earnestly request the following details, as otherwise a satisfactory delivery of parts is not possible:

1. Type of machine, gauge, no. of machine.
2. Page no., specification, ident. no., quantity.

Please use the order form!

Use original spare parts from Stoll for repairing only.

Order form

Telefon +49 (7121) 313-289
 Telefax +49 (7121) 313-347
 email: spareparts@stoll.com

H. Stoll GmbH & Co. KG
 PO box 2544

D-72715 Reutlingen

Order number

Receipt date

Company

Name

Street

Postal code town

Phone

Fax

Customer no.

Shipping mode

Date of order

Maschine type

Gauge

Masch.-Nr.

Sirix-Nr.

Spare parts order

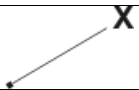
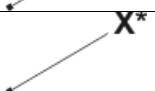
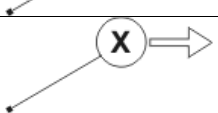
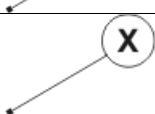
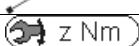
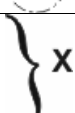
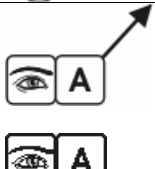
Page no.	Designation	Ident no.	Piece no.	Comment

Date

Signature

Search help

In order to make the search of the spare parts easier, the following elements will be used in the spare parts catalog:

Symbol	Meaning
	Indicates an assembly
	Position indicator with the position number (X).
	Indicates an element of another assembly.
	Indicates an assembly which is represented more detailed beside.
	Indicates an assembly which is represented on another page more detailed.
	Screw torques (z) deviating from the preferential row.
	Detail, represented enlarged in the direction of the arrow.
	Indicates a group of parts.
	Indicates the left side or view.
	Indicates the right side or view.
	Indicates a section in the line of view.

Torques

Drehmomente Torques Couples Coppias Momentos de rotación [Nm] ± 10 % (für $\mu_{ges} = 0,12$)		Festigkeitsklassen Property class Classes de résistance Classi di resistenza Clases de resistencia		
		4,8	8,8	12,9
Regelgewinde Coarse-pitch thread Filetage à pas gros Filetto regolatore Filete regulador	M3	0,6	1,2	2,5
	M4	1,2	2,5	5
	M5	2,5	5	9
	M6	5	9	18
	M8		18	40
	M10		40	
	M12		80	

Preferential row of torques

- Torques are **valid** for:
Connection steel-steel, black, phosphatized, galvanized, rolled or cut thread as well as only for plain (head) supports.
- Torques are **not valid** for:
protected screws with: Lock washers, rib heads, coated and clamping screws and nuts. They are also not used for self-grooving threads.
- Torques differing from this preferential row of torques must be taken from the corresponding location in the drawings.

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STOLL

THE RIGHT WAY TO KNIT

CMS 933 (Type 769)

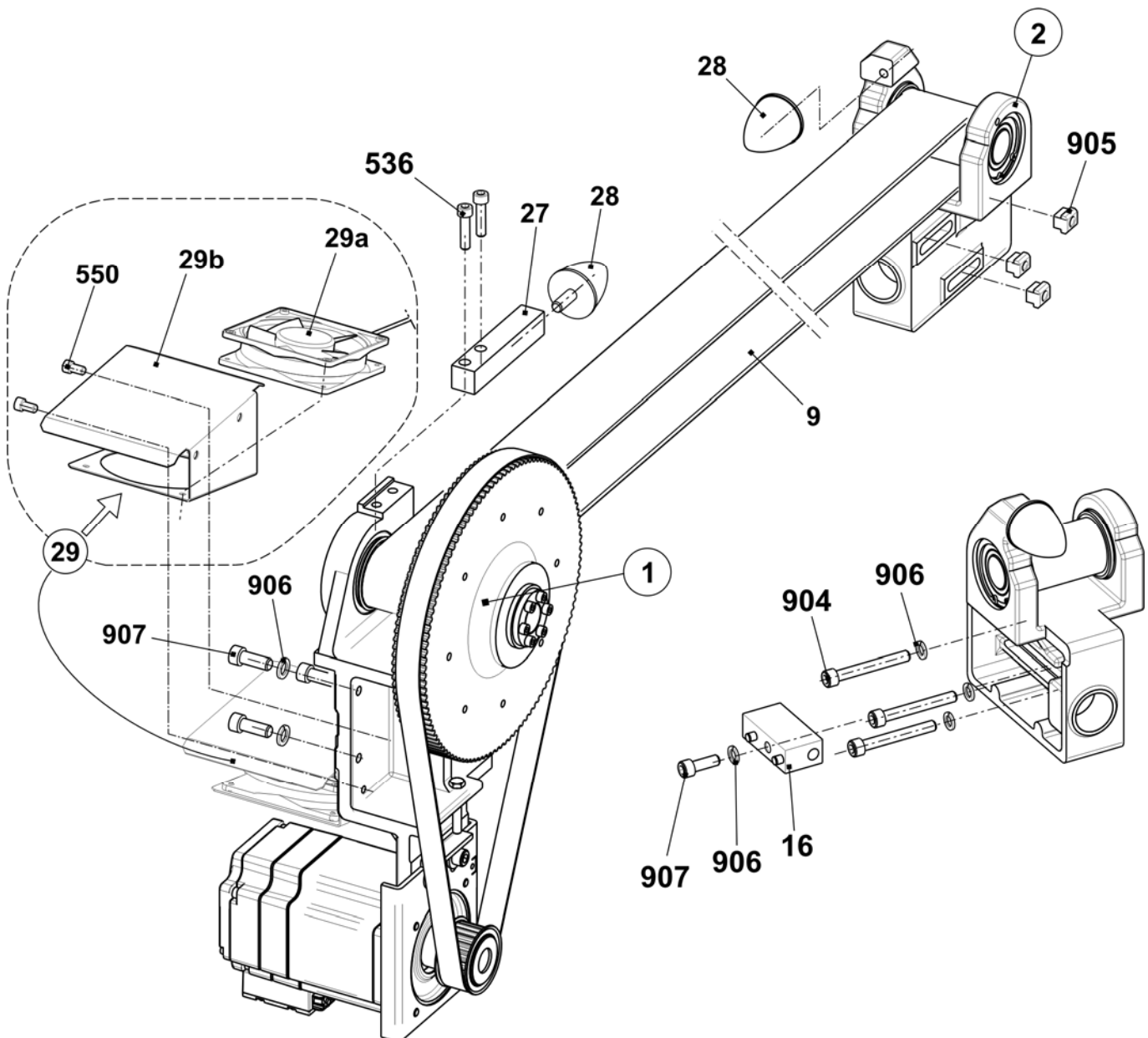
Carriage drive

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Carriage drive

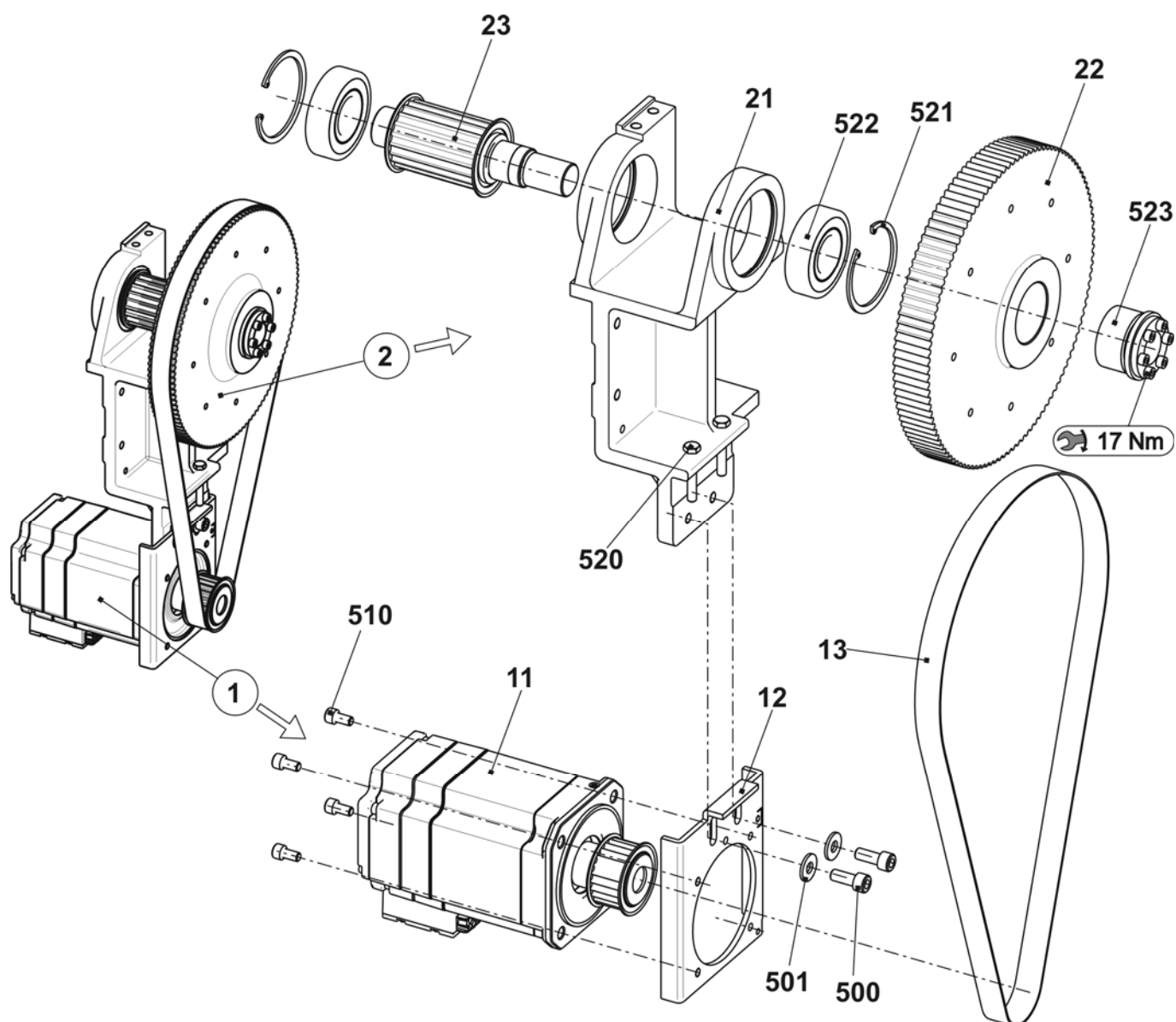
Drive

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Drive unit Racking	242 951	29	Ventilator complete	242 413
1	Drive unit complete	242 380	29a	Ventilator	213 722
2	Tension bearing complete	242 385	29b	Ventilator plate drive motor	241 823
9	Toothed belt 75AT10/8250	220 378	550	Cap screw M8X12	023 138
16	Stop point	226 553	904	Cap screw M10x90	022 549
27	Support buffer	242 748	905	Slide nut M10X12	023 471
28	Parabolic spring	200 661	906	Spring washer A 10	021 010
536	Cap screw M10x35	020 159	907	Cap screw M10x25	020 157



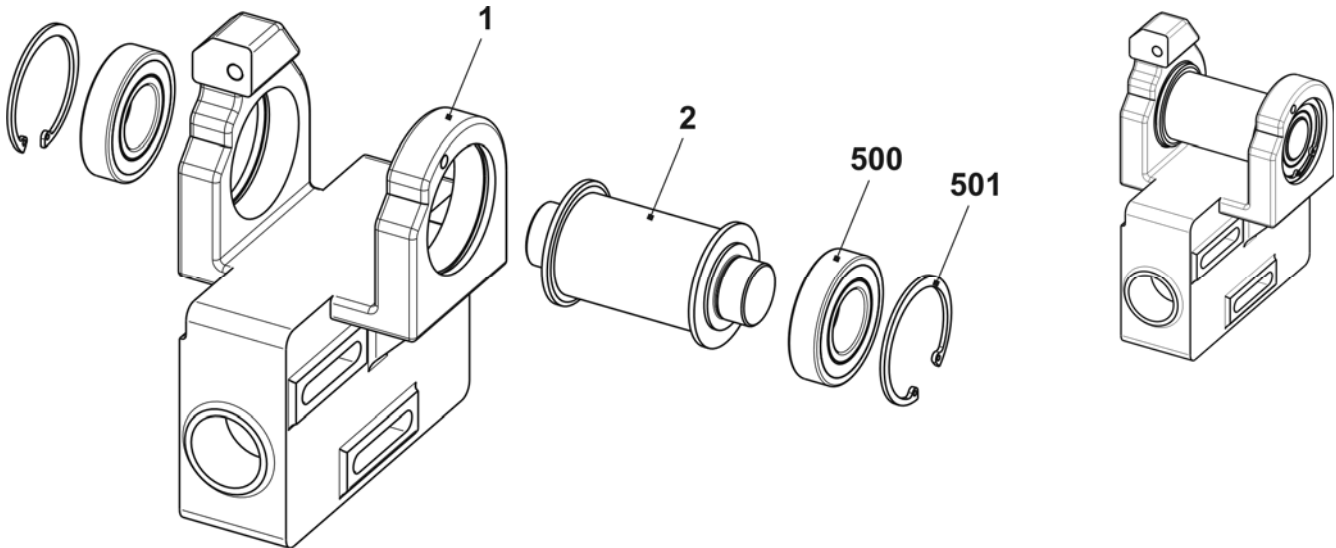
Drive unit

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Drive unit complete	242 380	2	Drive bearing	242 378
1	Drive unit	242 379	21	Housing drive bearing	242 344
11	Three phase servo motor drive complete	242 377	22	Timing belt pulley 115 S8M 250	240 639
12	Motor plate	227 662	23	Pinion AT10 Z=20	216 587
13	Toothed belt 250 HP-S8M 1312	240 646	520	Hexagon screw M8x50	020 364
510	Cap screw M8X16	023 629	521	Locking ring 80x2.5	023 461
500	Cap screw M10x25	020 157	522	Ball bearing 6307-2RS	023 462
501	Disc 10,5x25x2,5	022 178	523	Tension set 30X55	023 208



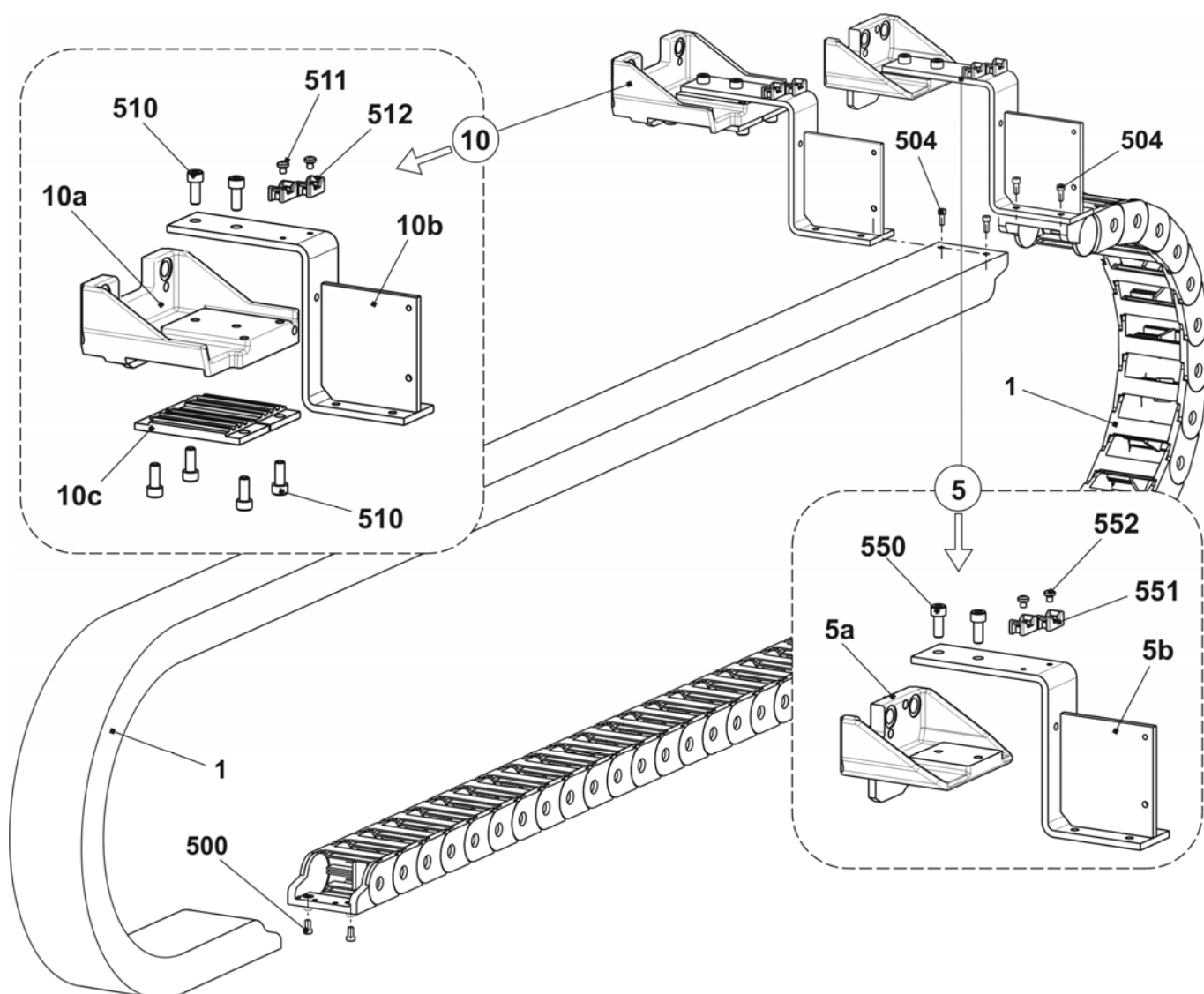
Tension bearing

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Tension bearing complete	242 385	500	Ball bearing 6207-2RS	022 915
1	Housing tension bearing	242 346	501	Locking ring 72x2.5	022 914
2	Tension roller	216 590			



Energy chain and carriage driver

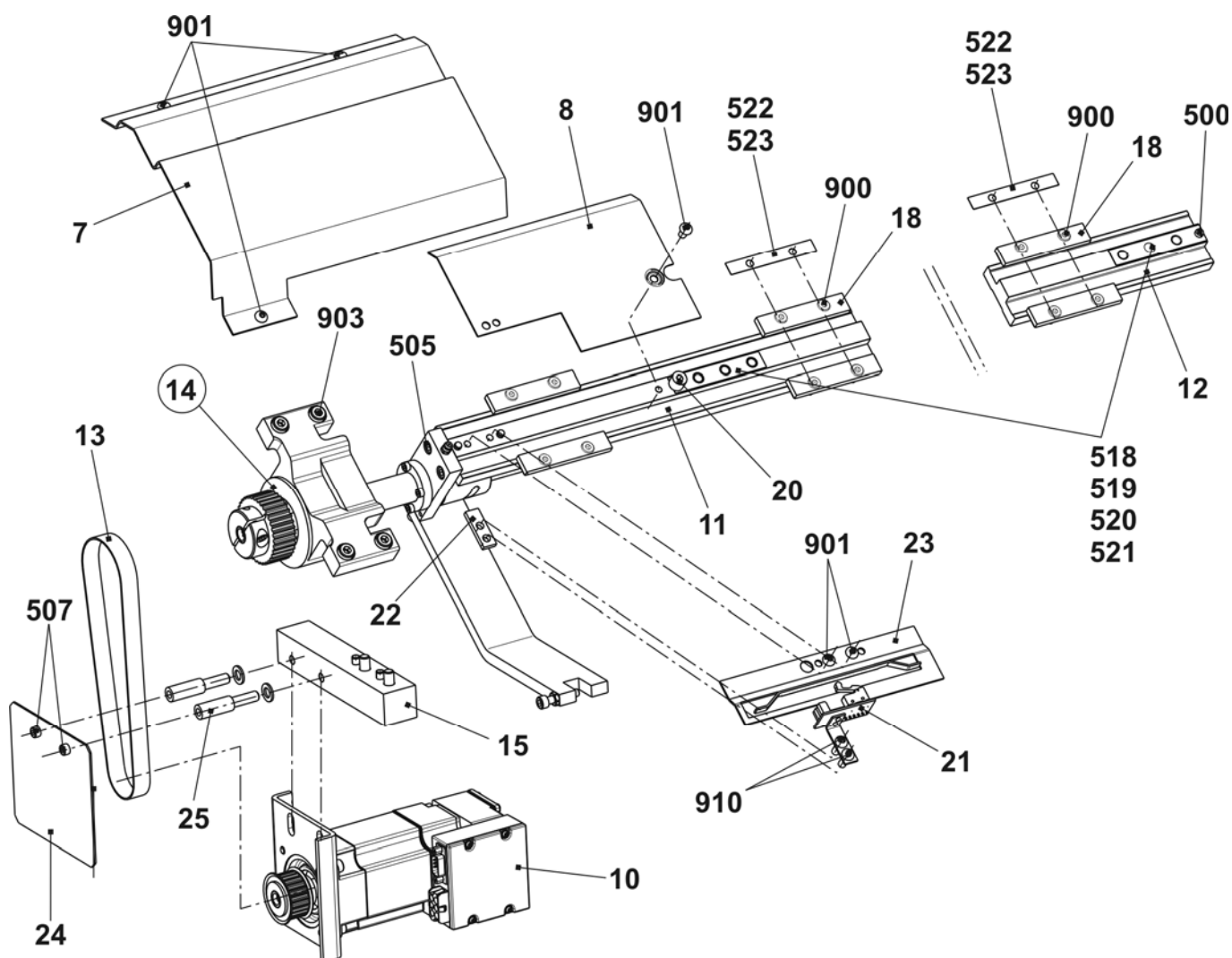
Pos	Designation	Ident No	Pos	Designation	Ident No
1	Energy chain (45 links)	220 389	10	Carriage driver complete	242 743
500	Cap screw M6x8	023 411	10a	Carriage driver	242 738
5	End stop complete	242 774	10b	Cable driver	242 730
5a	Stop point	242 753	10c	Clamping plate	232 493
5b	Cable driver	242 730	510	Cap screw M8X20	020 141
550	Cap screw M8X20	020 141	511	Countersunk screw M5x6	023 284
551	Fixing element	026 489	512	Fixing element	026 489
552	Countersunk screw M5x6	023 284	504	Cap screw M6X12	020 134



Racking

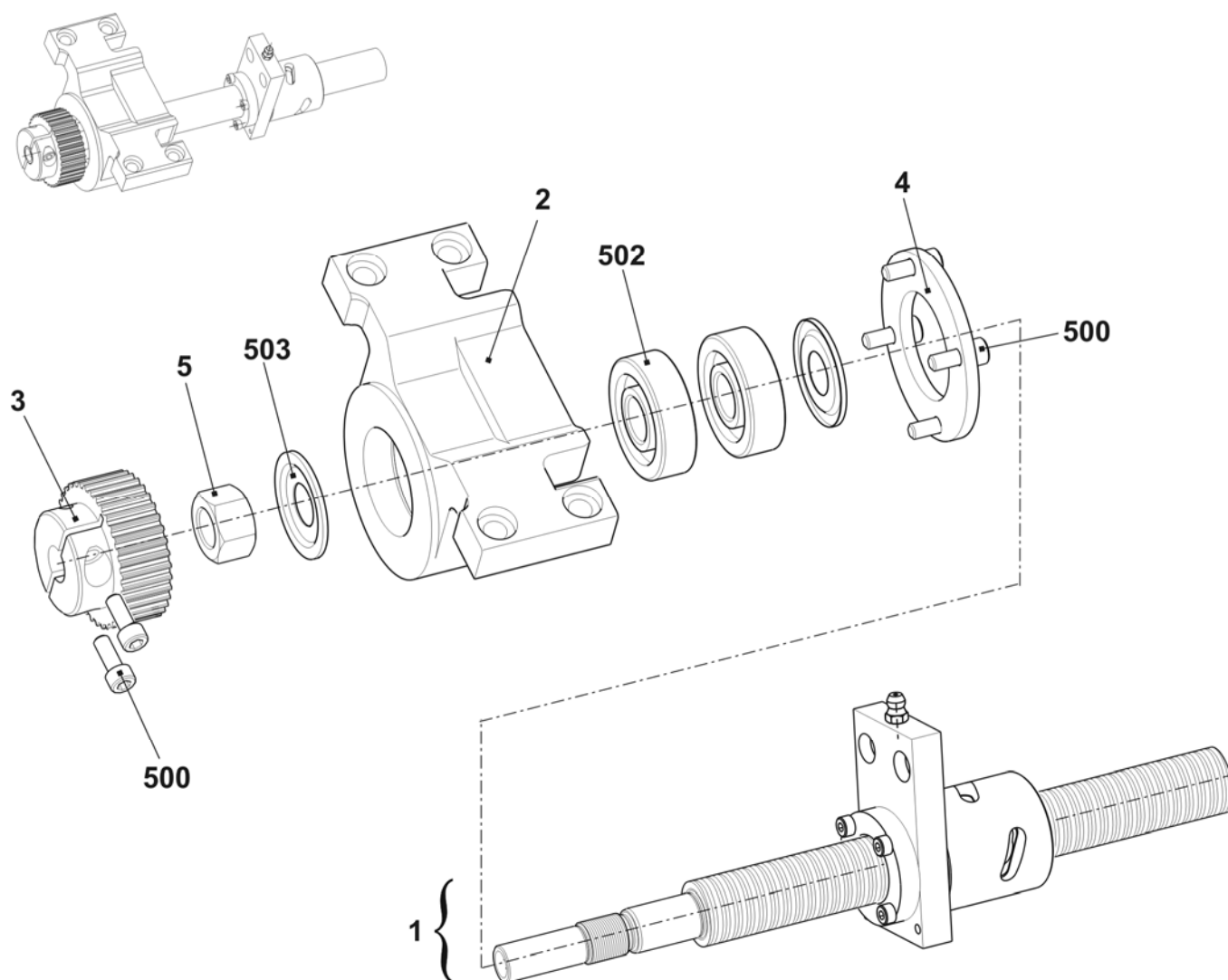
Racking drive

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Drive unit racking	242 951	25	Distance bolt	232 543
7	Racking cover plate	242 314	500	Cap screw M4x4	022 767
8	Racking cover plate movable	242 312	505	Cap screw M6X16	023 116
10	Three phase servo motor racking complete	241 454	507	Cap screw M5x12	020 132
11	Racking plate	242 311	518	Shim 0.03x15x85	023 162
12	Racking plate on the left	211 022	519	Shim 0.05x15x85	023 163
13	Toothed belt 150 S 5M 490	229 281	520	Shim 0.1x15x85	023 164
14	Spindle bearing complete	240 798	521	Shim 0.2x15x85	023 170
15	Bearing	227 604	522	Shim 0.03x11x80	023 286
18	Guide bead	206 382	523	Shim 0.05x11x80	023 287
20	Stop screw	218 783	530	Countersunk screw M6x10	023 183
21	Card racking limit switch	229 396	900	Cap screw M6X12	022 795
22	Shim	229 715	901	Countersunk screw M6x10	023 183
23	Switching metal plate	240 722	903	Cap screw M8X25	020 142
24	Cover plate	232 544	910	Countersunk screw M6x16	023 124



Racking spindle

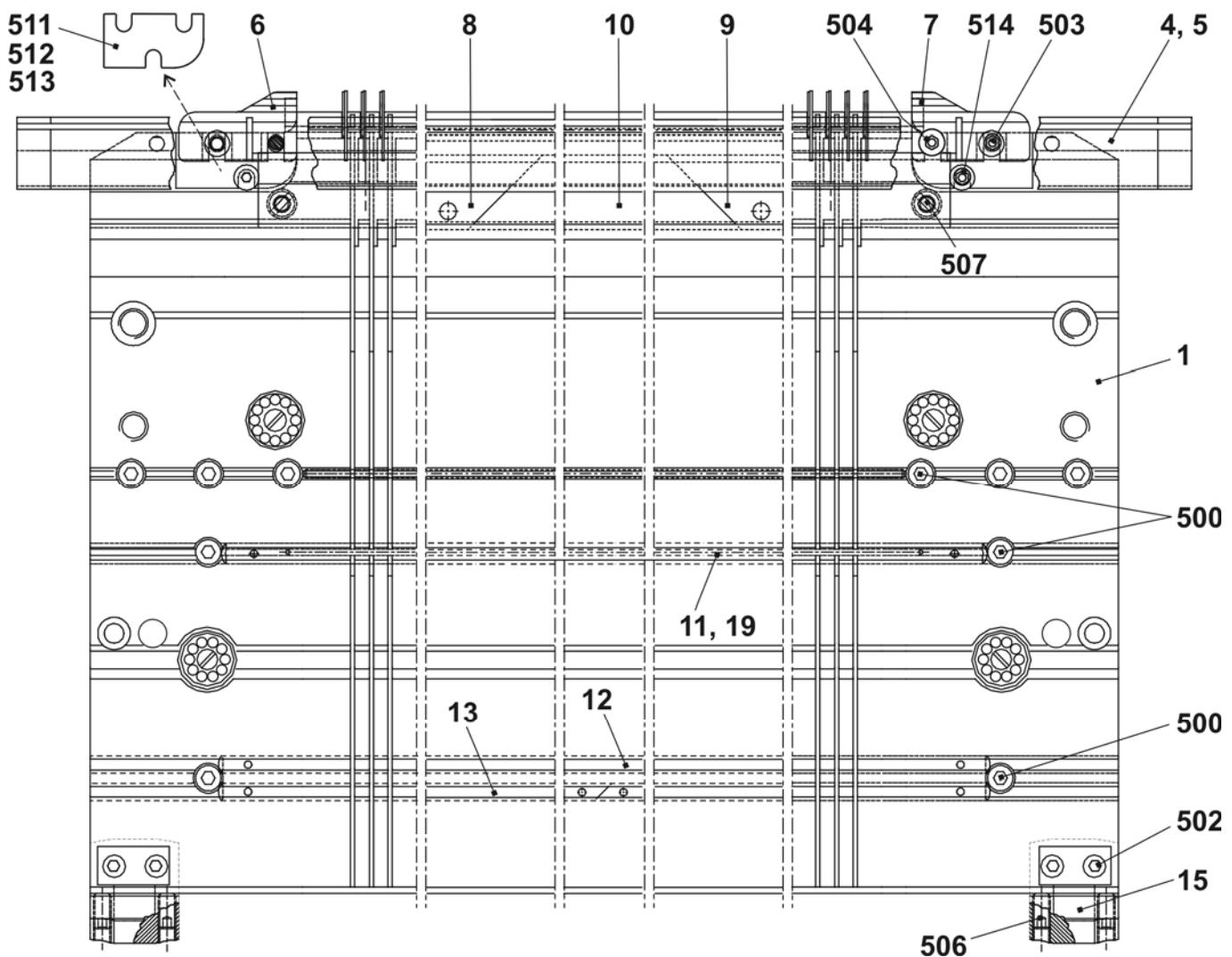
Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Spindle bearing complete	240 798	5	Shaft nut	219 677
1	Spindle complete	240 732	500	Cap screw M6x16	020 135
2	Bearing housing	240 724	502	Angular ball bearing 7303B	023 488
3	Timing belt pulley 36 S5M 150	219 664	503	NILOS Ring 7303 AVG 41,2X17X2	023 487
4	Ring	219 676			



Needle beds

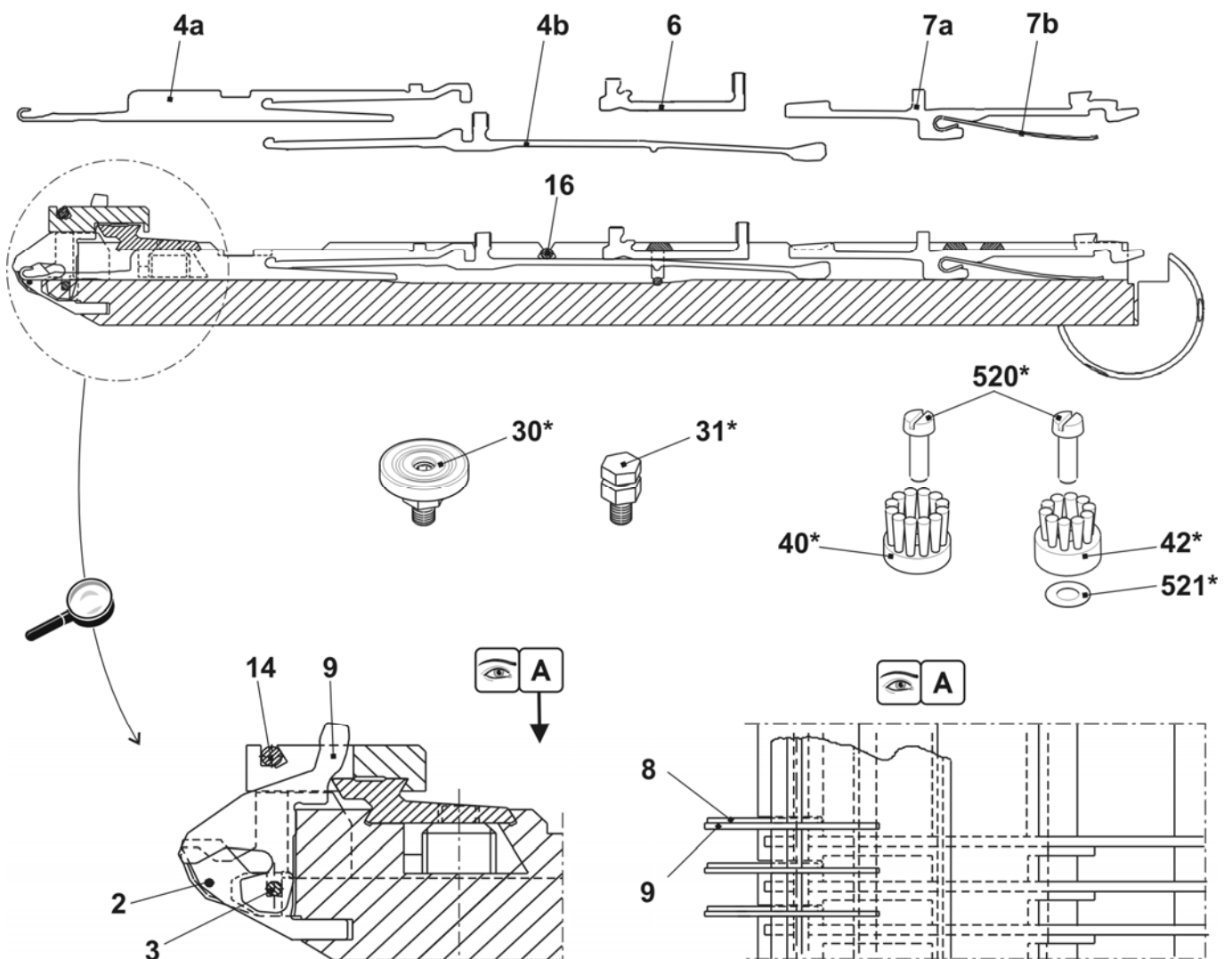
Needle bed E5

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E5	210 427	15	Support	206 352
1	Needle bed at the front + rear E5	210 991	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E5	211 038	500	Cap screw M5x10	022 918
5	Holding-down jack bed E5	211 045	502	Cap screw M6x25	020 137
6	Limiter on the left E4-8	205 343	503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344	504	Cap screw M5x22	023 193
8	Needle rail	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E5	210 982	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



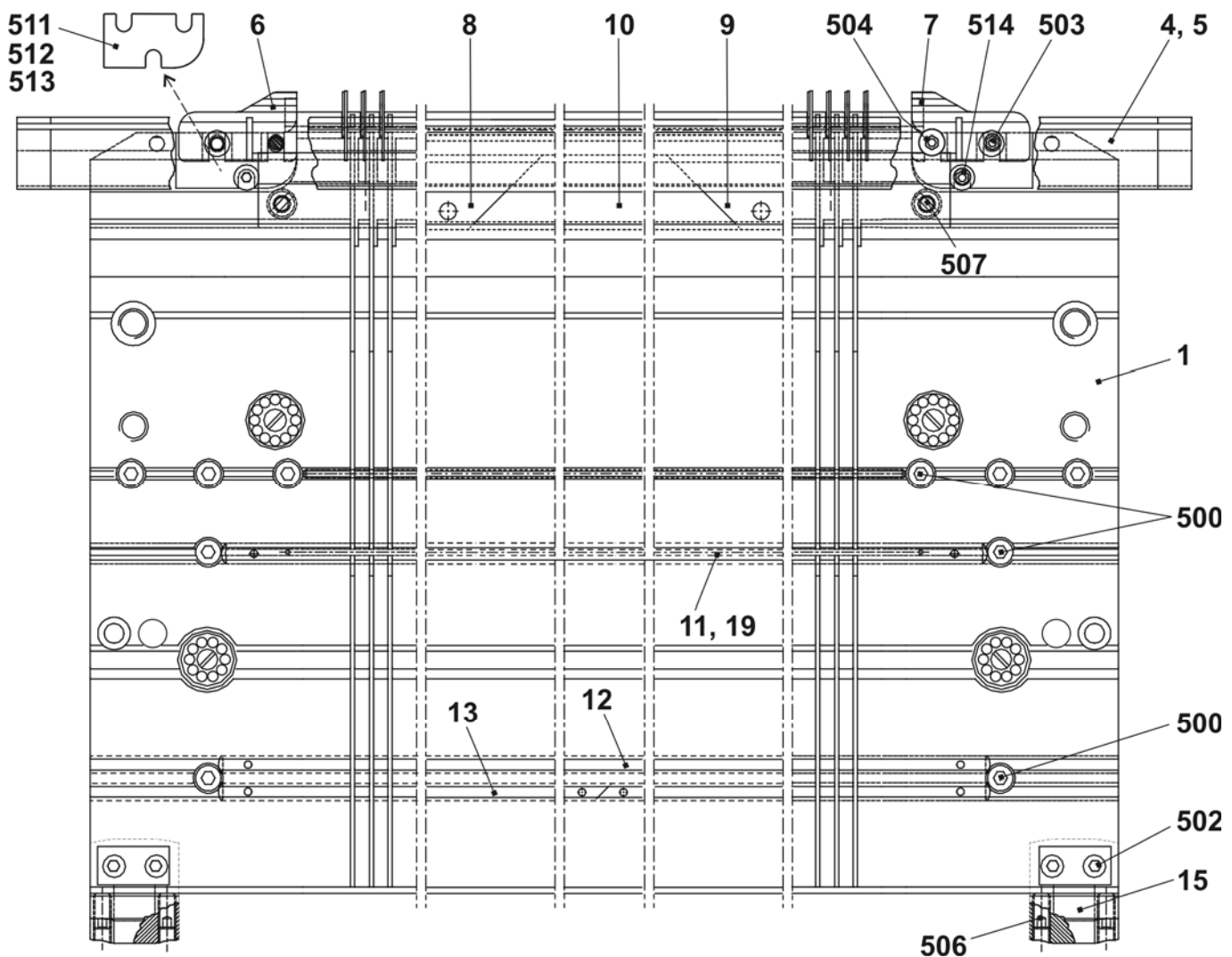
Continuation needle bed E5

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E5	210 427	9	Holding-down jack E5	205 031
2	Spring steel wire 1.0 D	210 971	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E5 - E6 with round hook	205 396	30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682	31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323	40*	Plate brush	235 612
7a	Coupling part E4-8	200 687	42*	Plate brush	206 200
7b	Selector spring E4-8	200 690	520*	Cap screw M5x12	020 032
8	Knock-over bit E5	204 996	521*	Adjusting washer P6x12x03	023 540



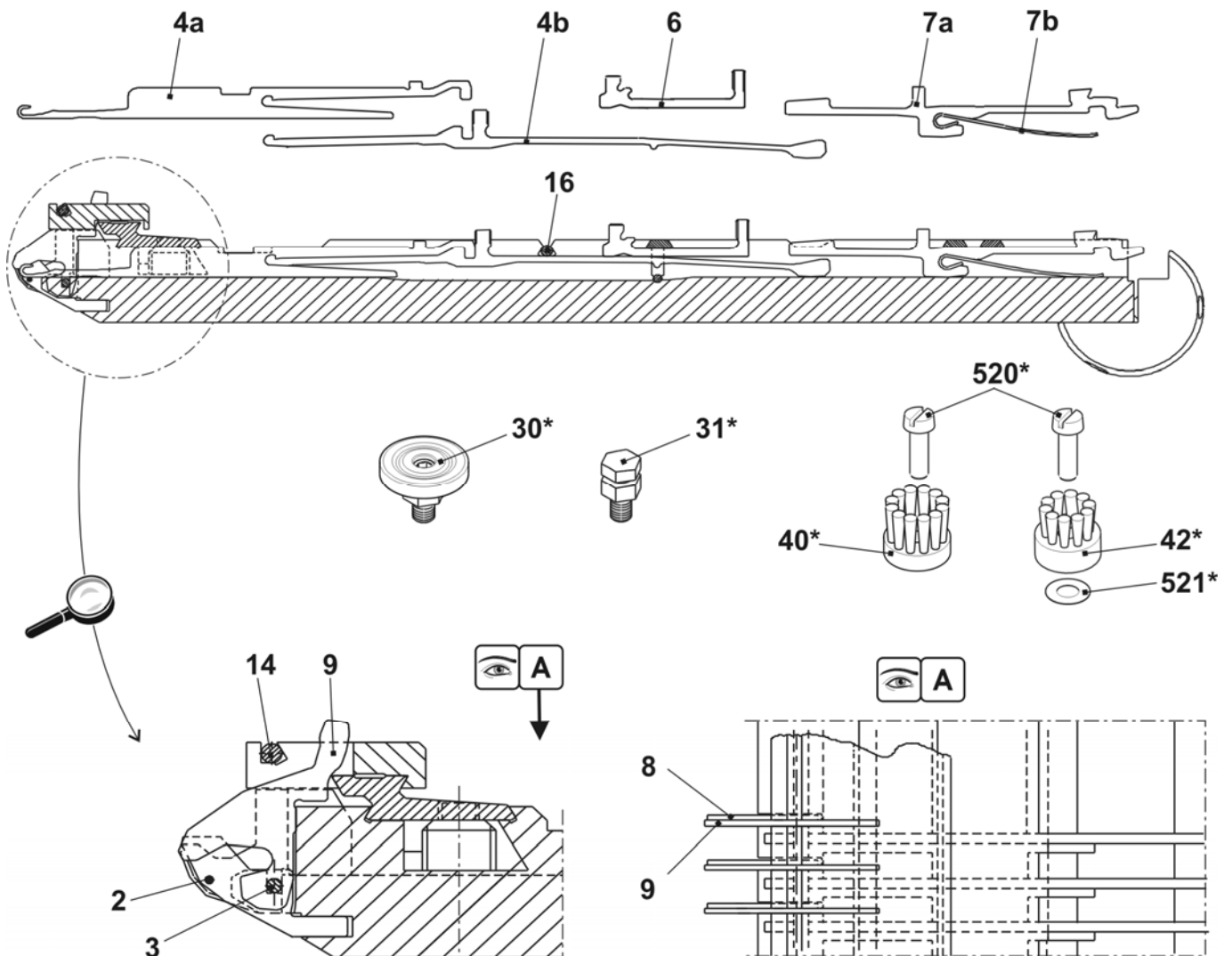
Needle bed E7

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E7	210 428	15	Support	206 352
1	Needle bed at the front + rear E7	210 992	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E7	211 039	500	Cap screw M5x10	022 918
5	Holding-down jack bed E7	211 046	502	Cap screw M6x25	020 137
6	Limiter on the left E4-8	205 343	503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344	504	Cap screw M5x22	023 193
8	Needle rail	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E7	210 983	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



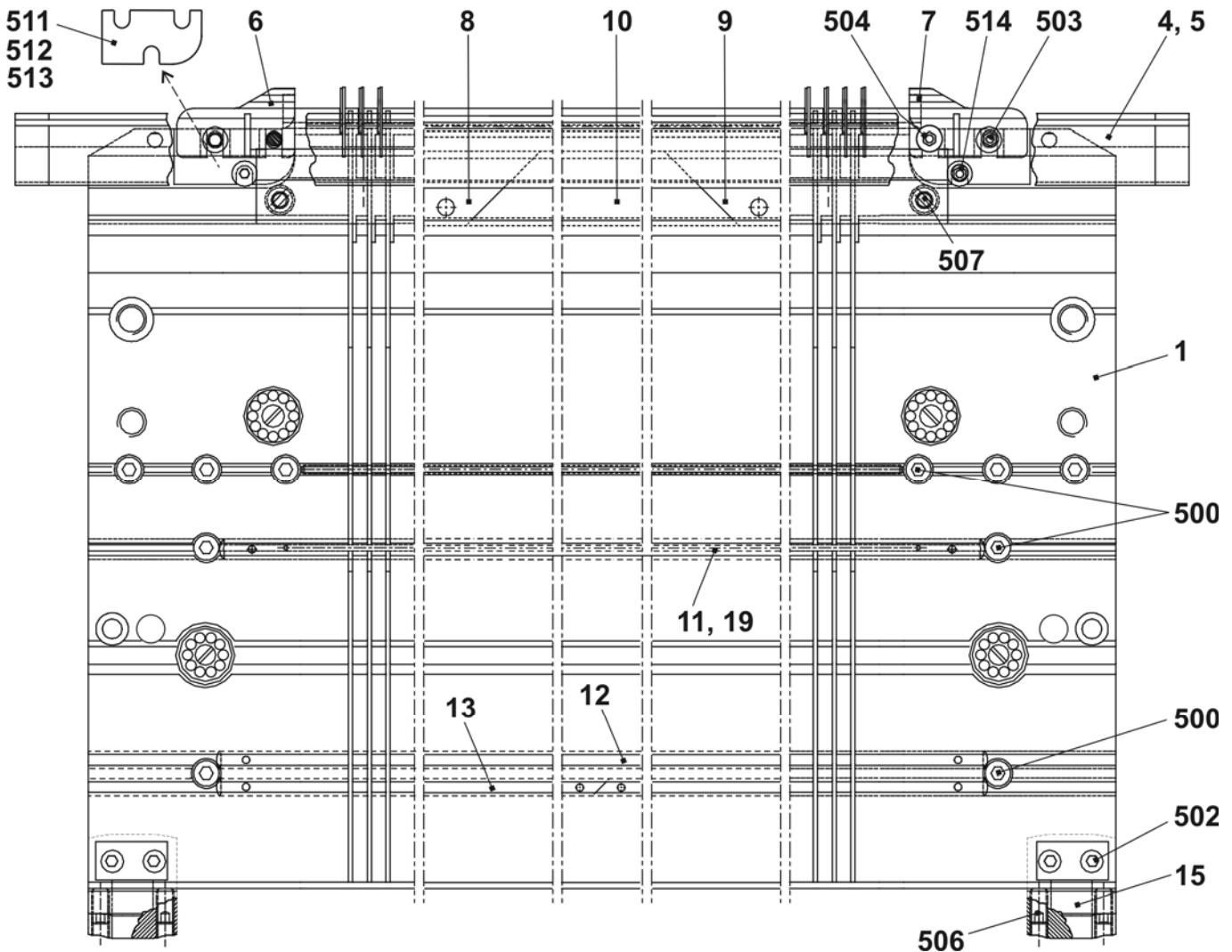
Continuation needle bed E7

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E7	210 428	9	Holding-down jack E7	205 032
2	Spring steel wire 0.8 D	210 970	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E7 with round hook	205 397	30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682	31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323	40*	Plate brush	235 612
7a	Coupling part E4-8	200 687	42*	Plate brush	206 200
7b	Selector spring E4-8	200 690	520*	Cap screw M5x12	020 032
8	Knock-over bit E7	207 055	521*	Adjusting washer P6x12x03	023 540



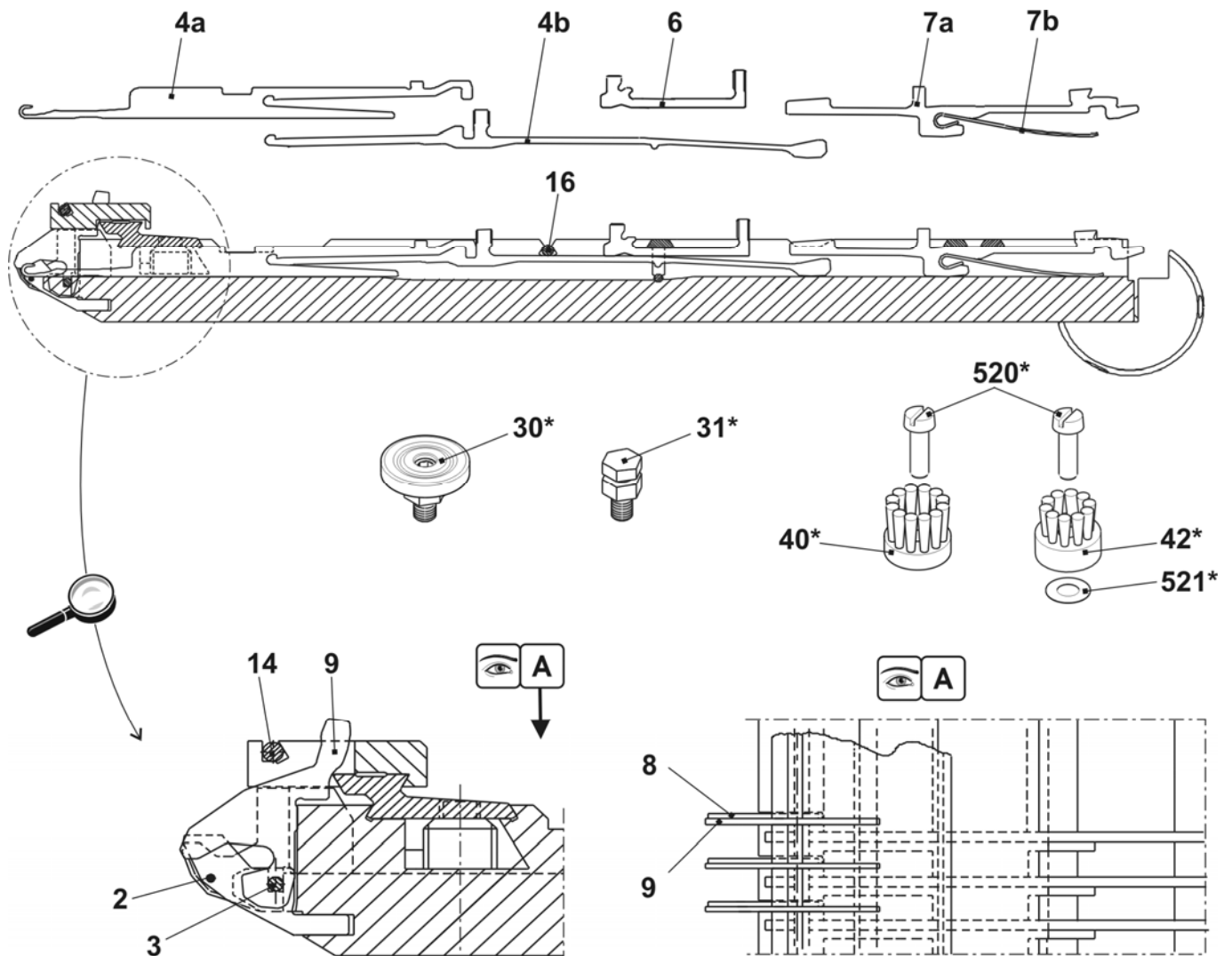
Needle bed E8

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E8	210 429	15	Support	206 352
1	Needle bed at the front + rear E8	210 993	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E8	211 040	500	Cap screw M5x10	022 918
5	Holding-down jack bed E8	211 047	502	Cap screw M6x25	020 137
6	Limiter on the left E4-8	205 343	503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344	504	Cap screw M5x22	023 193
8	Needle rail	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E8	210 984	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



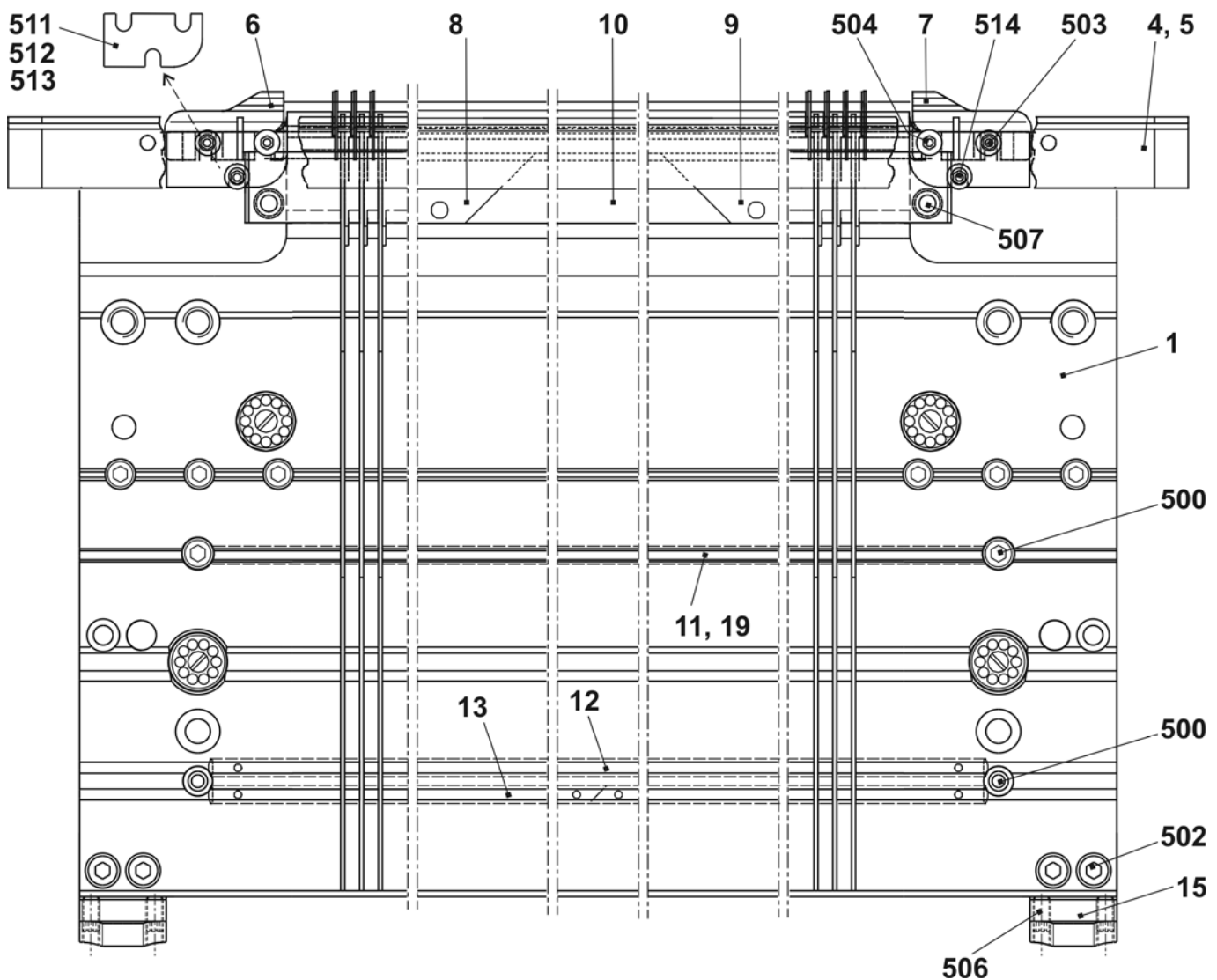
Continuation needle bed E8

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E8	210 429	9	Holding-down jack E8	205 028
2	Spring steel wire 0.8 D	210 970	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E8 with round hook	208 745	30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682	31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323	40*	Plate brush	235 612
7a	Coupling part E4-8	200 687	42*	Plate brush	206 200
7b	Selector spring E4-8	200 690	520*	Cap screw M5x12	020 032
8	Knock-over bit E8	207 054	521*	Adjusting washer P6x12x03	023 540



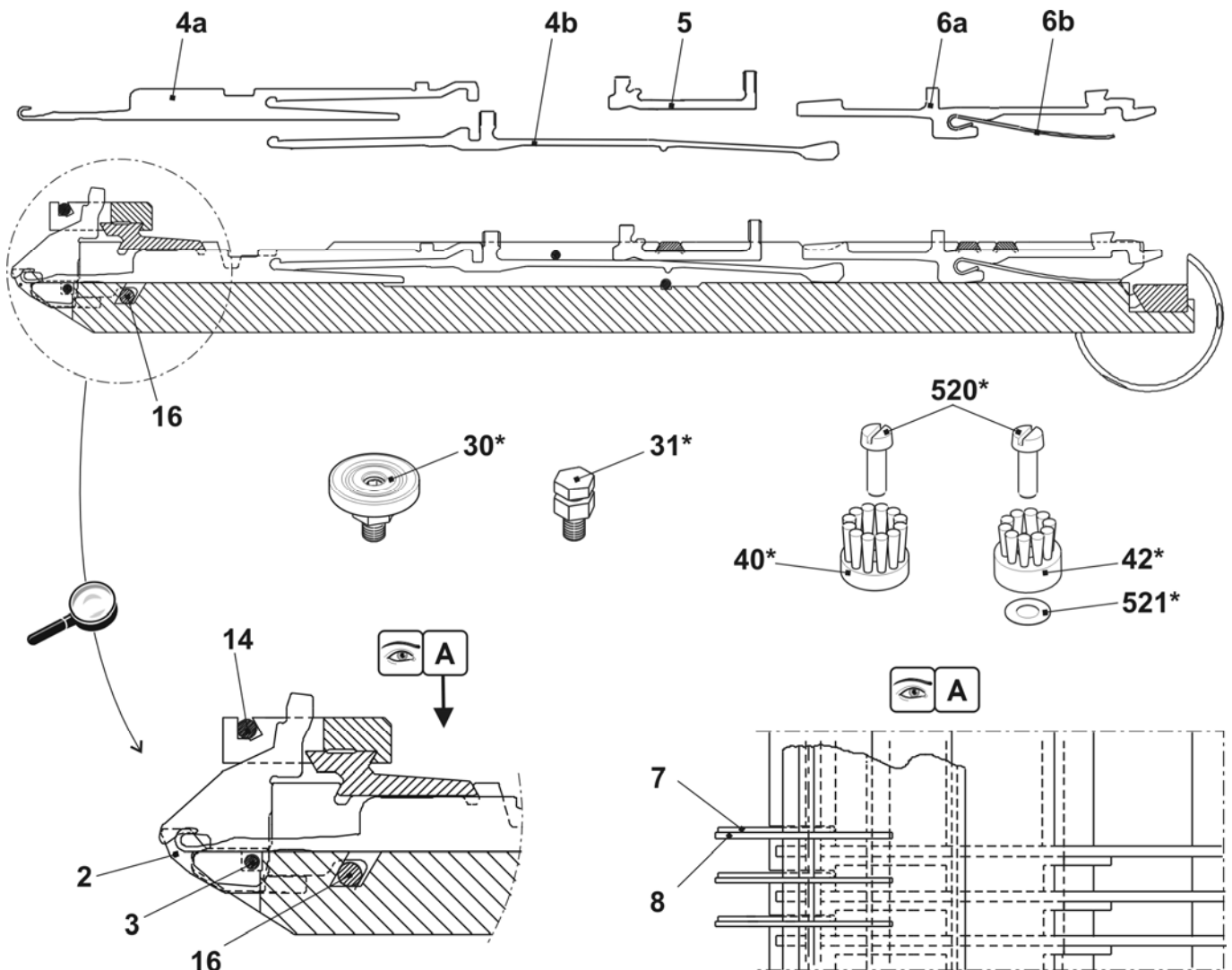
Needle bed E10

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E10	241 661	15	Support	206 352
1	Needle bed at the front + rear E10	241 648	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E10	211 041	500	Cap screw M5x10	022 918
5	Holding-down jack bed E10	211 048	502	Cap screw M6x25	020 137
6	Limiter on the left E10-14	205 764	503	Cap screw M5x8-8.8	023 154
7	Limiter on the left E10-14	205 765	504	Cap screw M5x22	023 193
8	Needle rail on the left	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E10	210 985	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



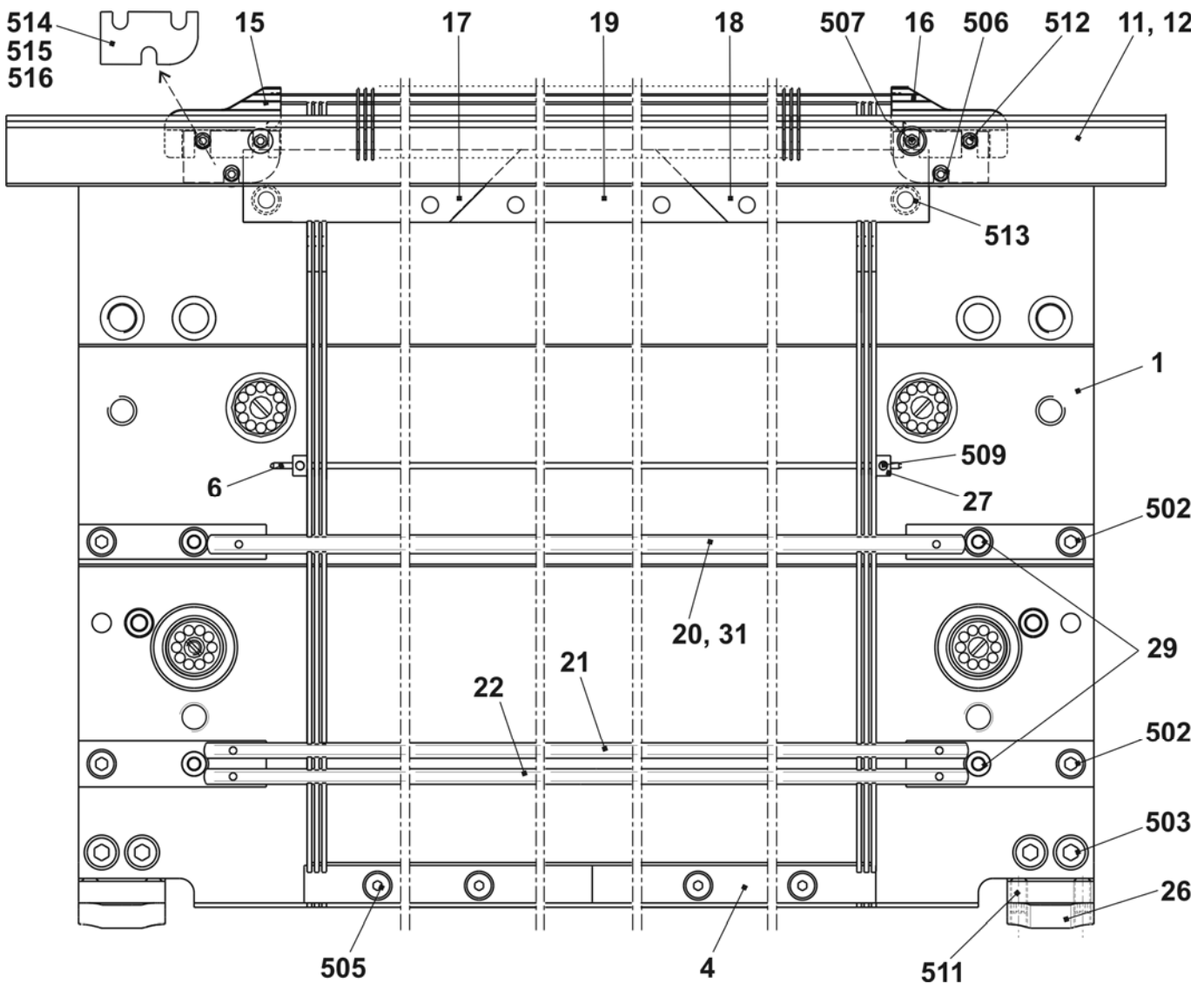
Continuation needle bed E10

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E10	241 661	8	Holding-down jack (trick wall) E10	239 815
2	Spring steel wire 0.6 D	210 969	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E10 with round hook	205 398	30*	Adjusting piece	206 375
4b	Coupling part E10-12	200 683	31*	Set screw complete	207 712
5	Intermediate slider with brake E10	237 324	40*	Plate brush	235 612
6a	Selection jack E10-12	200 688	42*	Plate brush	206 200
6b	Selector spring E10-12	200 691	520*	Cap screw M5x12	020 032
7	Knock-over bit E10	239 756	521*	Adjusting washer P6x12x03	023 540



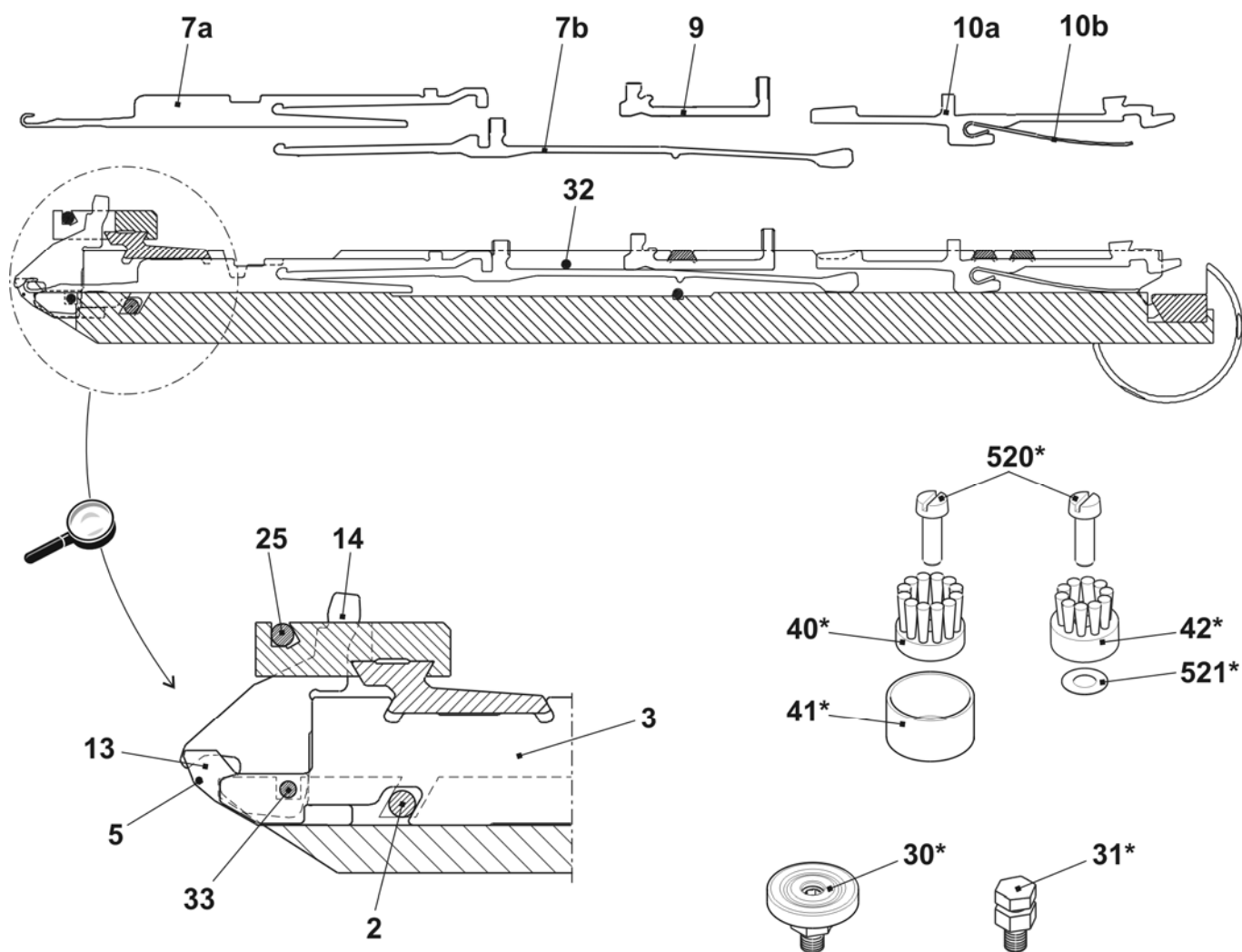
Needle bed E12

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E12	210 431	27	Bush	206 090
1	Needle bed at the front rear E12	210 995	29	Dowel pin 5x12	209 484
4	Pressure bar	211 009	31	Cover rail at the rear	210 979
6	Spring steel wire 2.0 D	210 972	502	Cap screw M5x12	020 132
11	Holding-down jack bed at the front E12	211 042	503	Cap screw M6X14	022 658
12	Holding-down jack bed E12	211 049	505	Cap screw M5x8	023 379
15	Limiter on the left E10-14	205 764	506	Cap screw M5x12-8.8	022 943
16	Limiter on the left E10-14	205 765	507	Cap screw M5x22	023 193
17	Needle rail on the left	205 311	509	Set screw Iso4766-M3,5x3-1	020 512
18	Needle rail on the right	205 312	511	Set screw Iso4026-M6x12-45	022 400
19	Needle rail	210 977	512	Cap screw M5x8	023 154
20	Cover rail at the front E12	210 986	513	Sprung thrust piece B-M10	023 177
21	Cover rail	210 978	514	Shim 0.05x18.5x34	023 196
22	Cover rail	210 980	515	Shim 0.1x18.5x34	023 197
26	Support	206 352	516	Shim 0.2x18.5x34	023 253



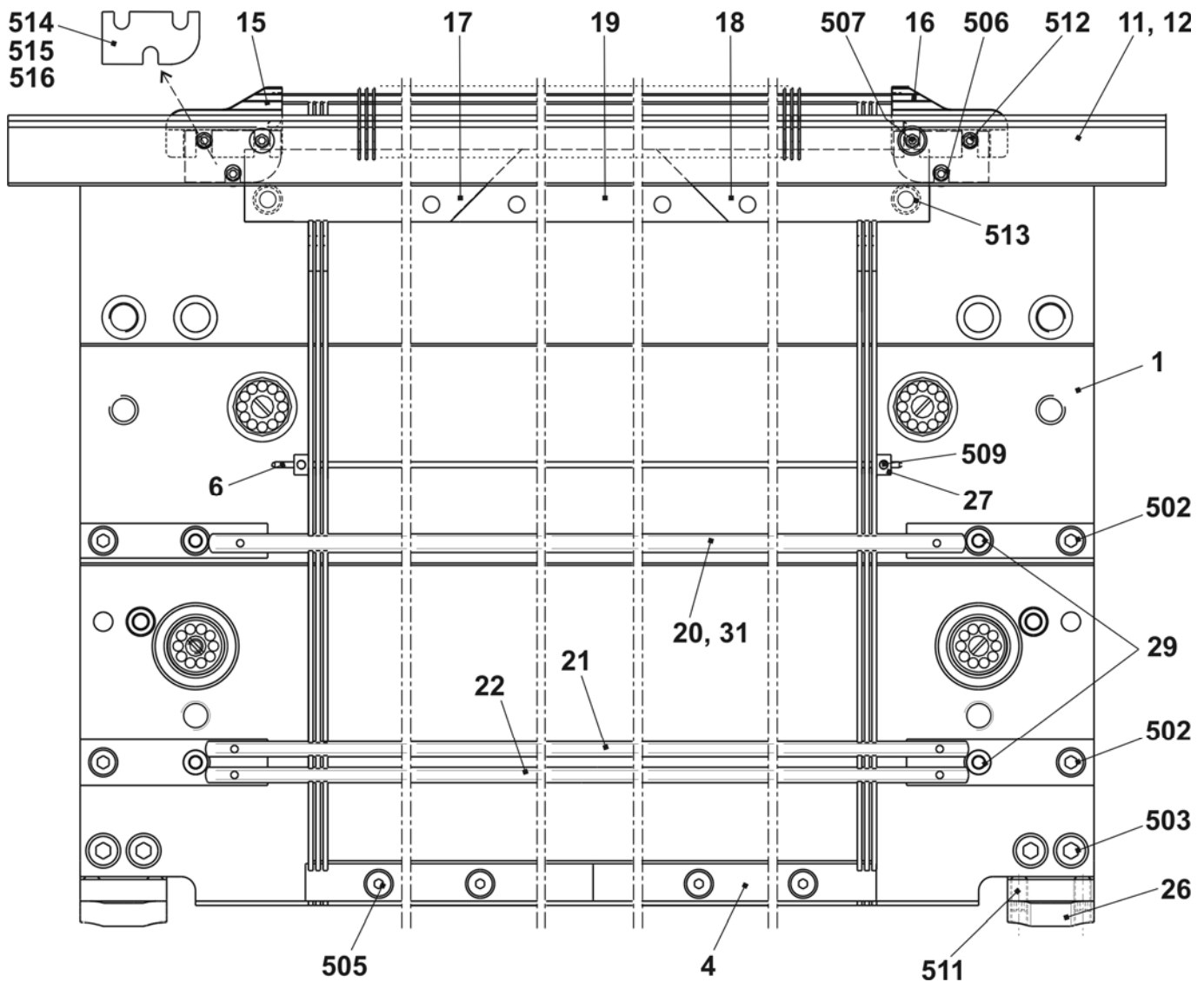
Continuation needle bed E12

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E12	210 431	25	Fixed wire 2.8 D	210 974
2	Spring steel wire 3,4D	210 975	32	Spring steel wire 2.0 D	210 973
3	Main trick wall E12	205 355	33	Spring steel wire 1.95 D	212 184
5	Spring steel wire 0.6 D	210 969	30*	Adjusting piece	206 375
7a	Needle E12	204 009	31*	Set screw complete	207 712
7b	Coupling part E10-12	200 683	40*	Plate brush	235 612
9	Intermediate slider with brake E10-12	237 324	41*	Container plate brush	233 012
10a	Selection jack E10-12	200 688	42*	Plate brush	206 200
10b	Selector spring E10-12	200 691	520*	Cap screw M5x12	020 032
13	Knock-over bit E12	205 013	521*	Adjusting washer P6x12x03	023 540
14	Holding-down jack (trick wall) E12	227 821			



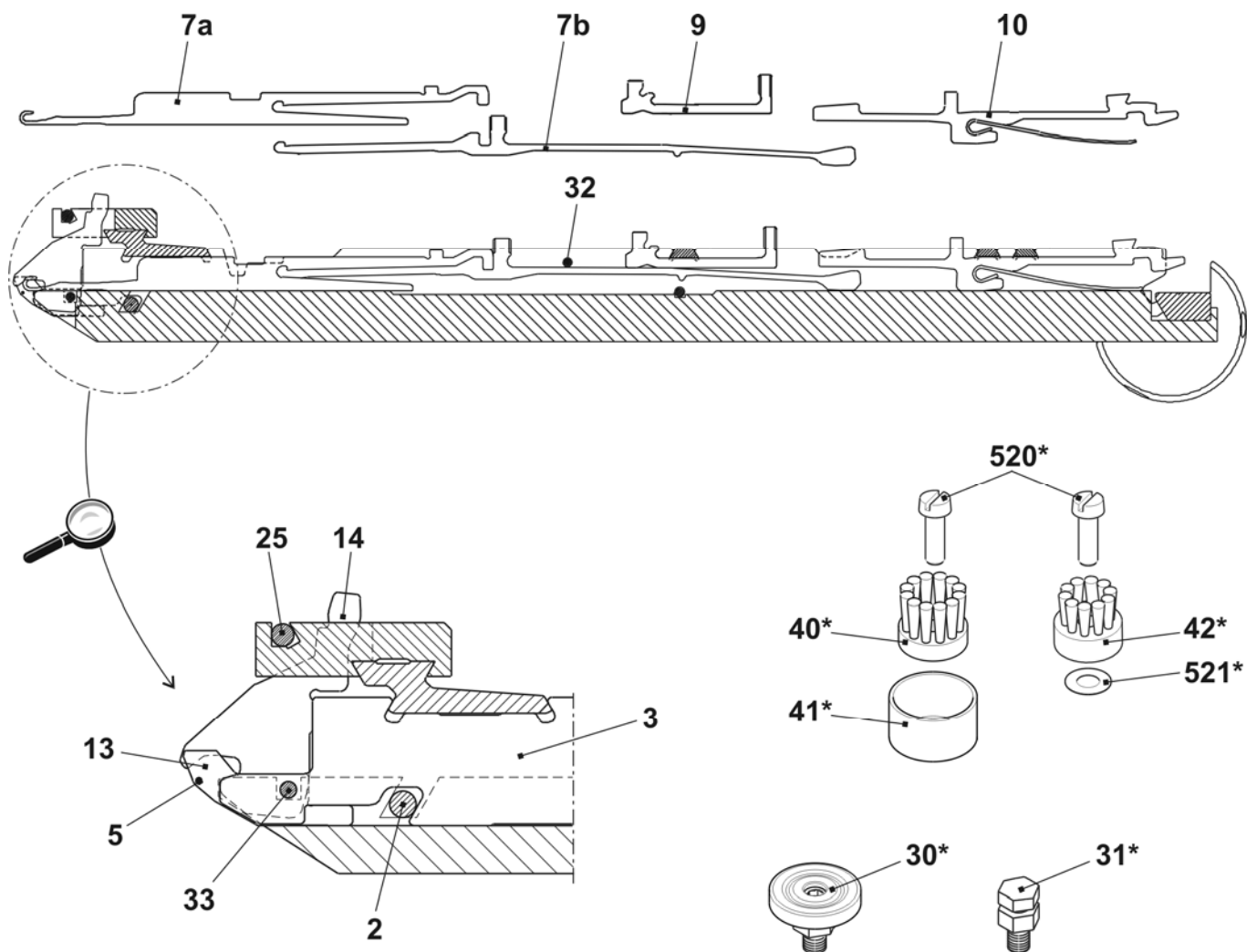
Needle bed E14

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E14	210 432	27	Bush	206 090
1	Needle bed at the front rear E14	210 996	29	Dowel pin 5x12	209 484
4	Pressure bar	211 009	31	Cover rail at the rear	210 979
6	Spring steel wire 2.0 D	210 972	502	Cap screw M5x12	020 132
11	Holding-down jack bed at the front E14	211 043	503	Cap screw M6X14	022 658
12	Holding-down jack bed E14	211 050	505	Cap screw M5x8	023 379
15	Limiter on the left E10-14	205 764	506	Cap screw M5x12-8.8	022 943
16	Limiter on the left E10-14	205 765	507	Cap screw M5x22	023 193
17	Needle rail on the left	205 311	509	Set screw M3,5x3-1	020 512
18	Needle rail on the right	205 312	511	Set screw I6x12-45	022 400
19	Needle rail	210 977	512	Cap screw M5x8	023 154
20	Cover rail at the front E14	210 987	513	Sprung thrust piece B-M10	023 177
21	Cover rail	210 978	514	Shim 0.05x18.5x34	023 196
22	Cover rail	210 980	515	Shim 0.1x18.5x34	023 197
26	Support	206 352	516	Shim 0.2x18.5x34	023 253



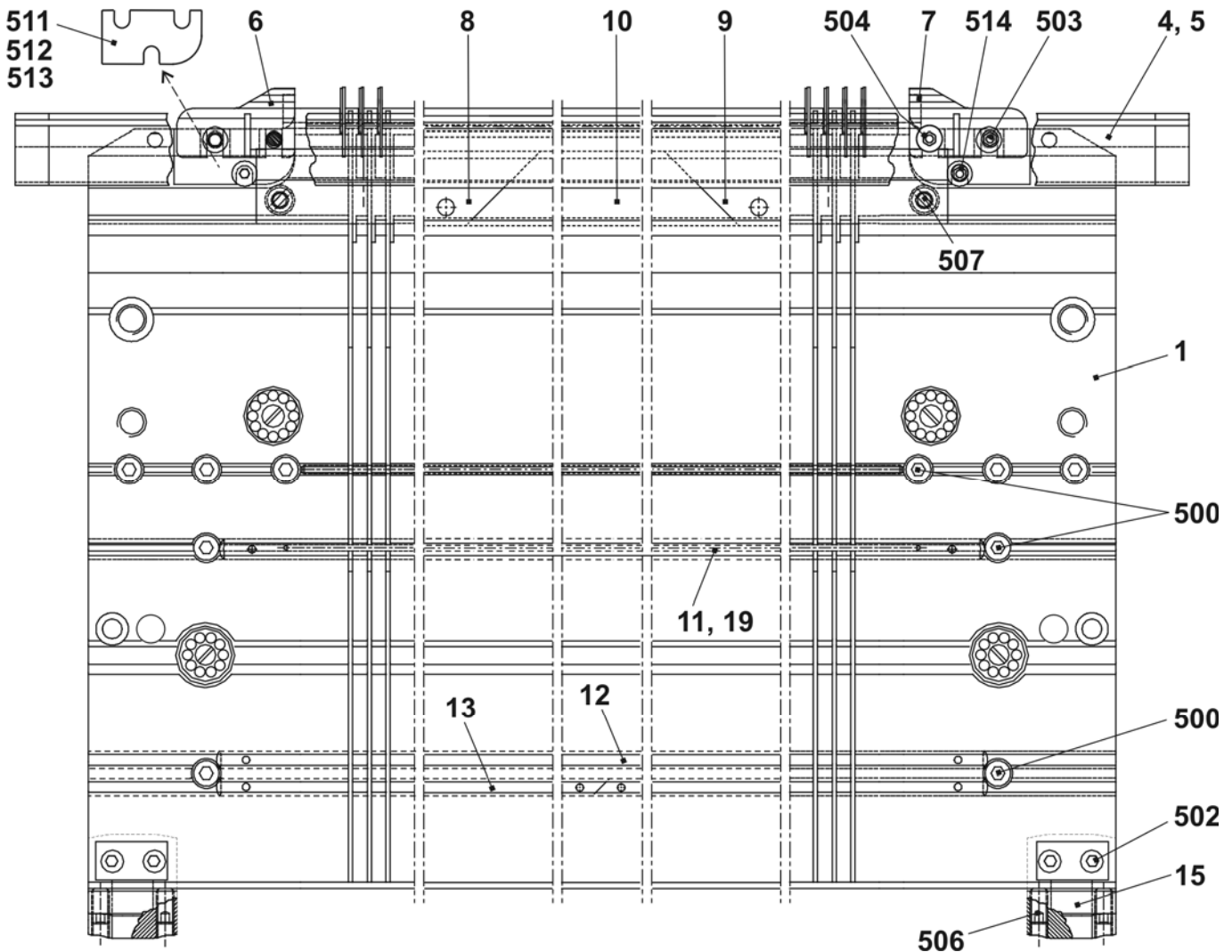
Continuation needle bed E14

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear	210 432	25	Fixed wire 2.8 D	210 974
2	Spring steel wire 3,4D	210 975	32	Spring steel wire 2.0 D	210 973
3	Main trick wall E14	209 574	33	Spring steel wire 1.95 D	212 184
5	Spring steel wire 0.6 D	210 969	30*	Adjusting piece	206 375
7a	Needle E14	209 614	31*	Set screw complete	207 712
7b	Coupling part E14	209 633	40*	Plate brush	235 612
9	Intermediate slider with brake E14	237 373	41*	Container plate brush	233 012
10	Selection jack E14 with spring	224 725	42*	Plate brush	206 200
13	Knock-over bit E14	209 649	520*	Cap screw M5x12	020 032
14	Holding-down jack (trick wall) E14	235 262	521*	Adjusting washer P6x12x03	023 540



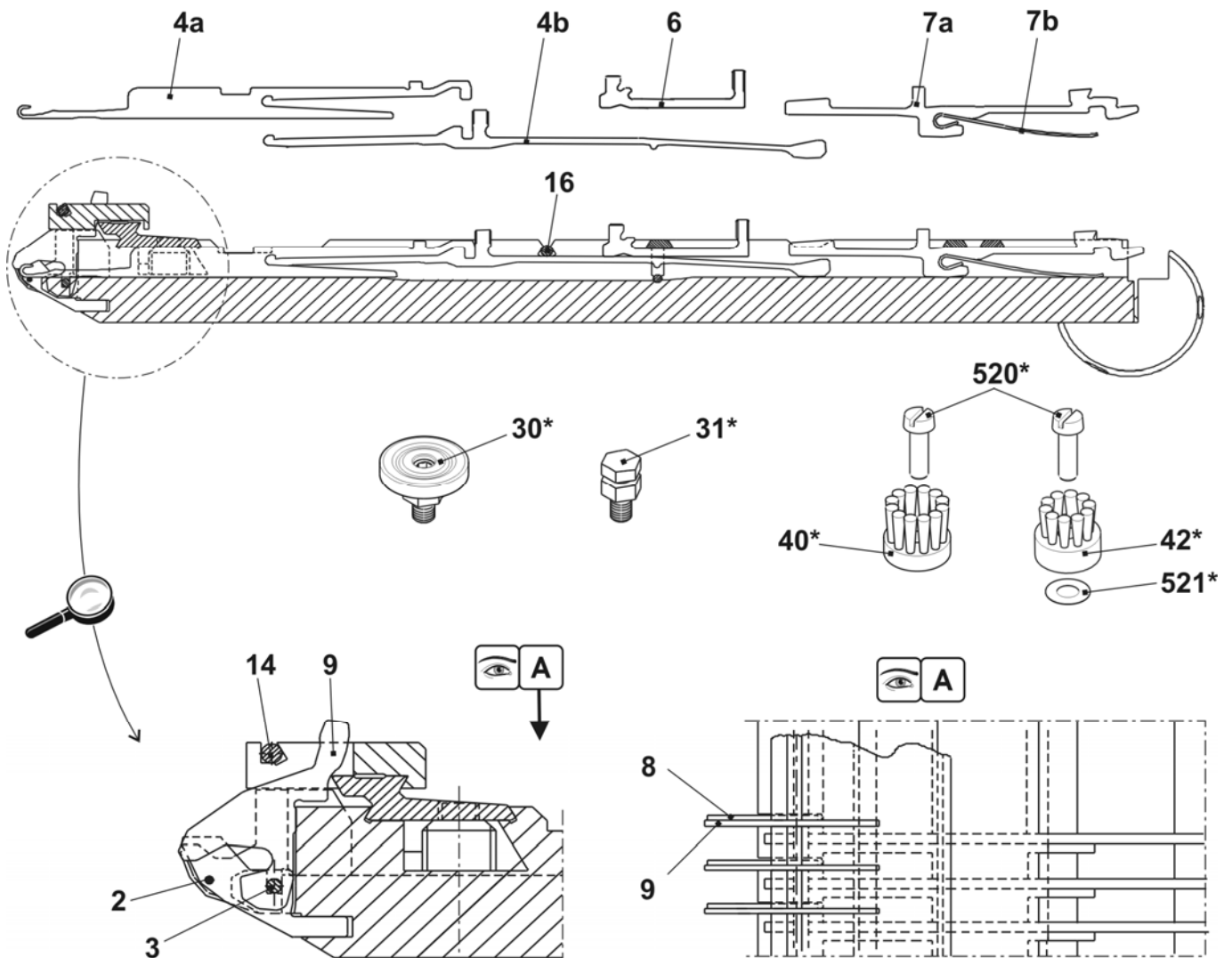
Needle bed E5m.4

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E5m.4	211 968	15	Support	206 352
1	Needle bed at the front + rear E5	210 991	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E5	211 038	500	Cap screw M5x10	022 918
5	Holding-down jack bed E5	211 045	502	Cap screw M6x25	020 137
6	Limiter on the left E4-8	205 343	503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344	504	Cap screw M5x22	023 193
8	Needle rail	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E5	210 982	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



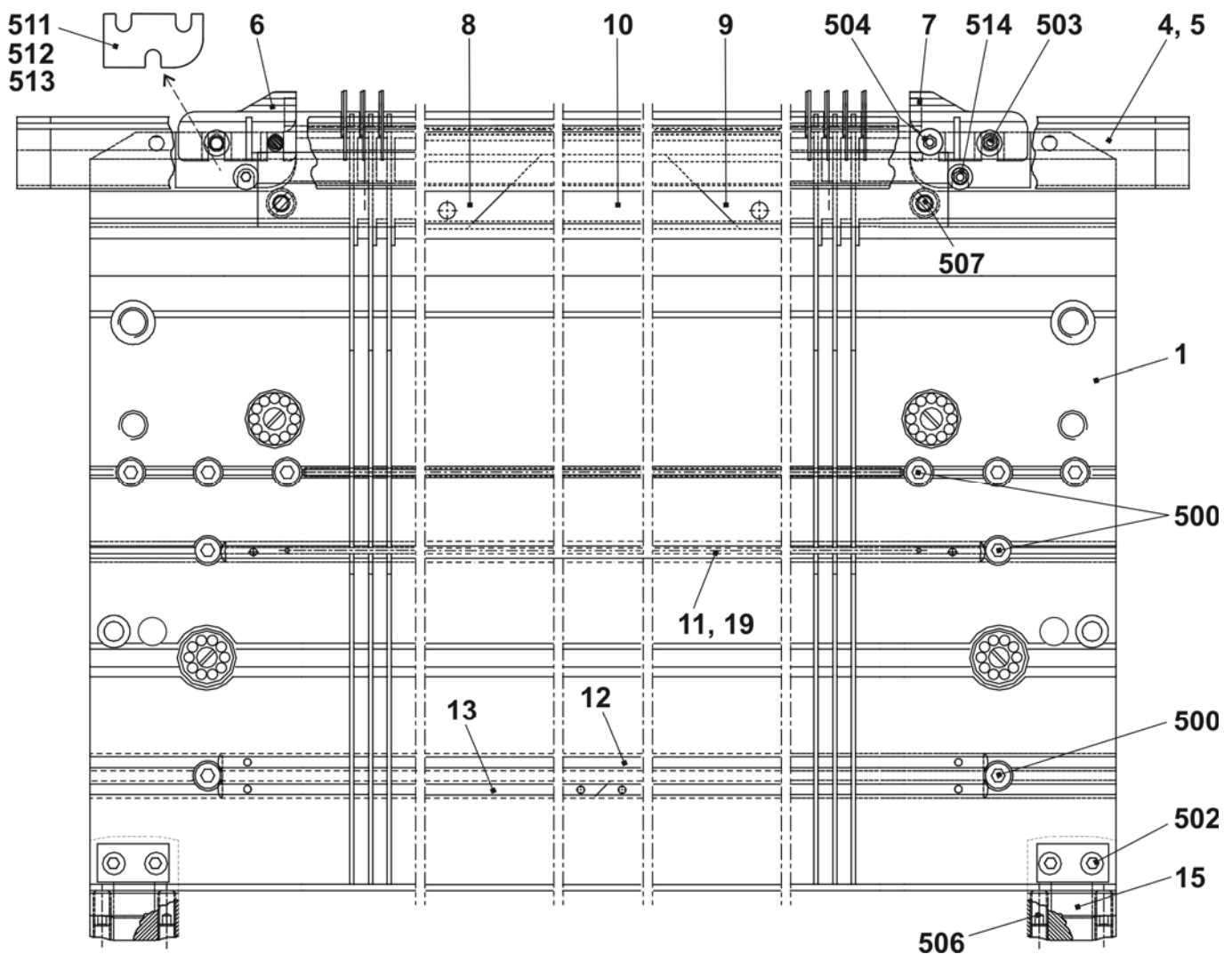
Continuation needle bed E5m.4

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E5m.4	211 968	9	Holding-down jack E5	205 031
2	Spring steel wire 1.0 D	210 971	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E2,5.2-3.5.2	232 581	30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682	31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323	40*	Plate brush	235 612
7a	Coupling part E4-8	200 687	42*	Plate brush	206 200
7b	Selector spring E4-8	200 690	520*	Cap screw M5x12	020 032
8	Knock-over bit E5	204 996	521*	Adjusting washer P6x12x03	023 540



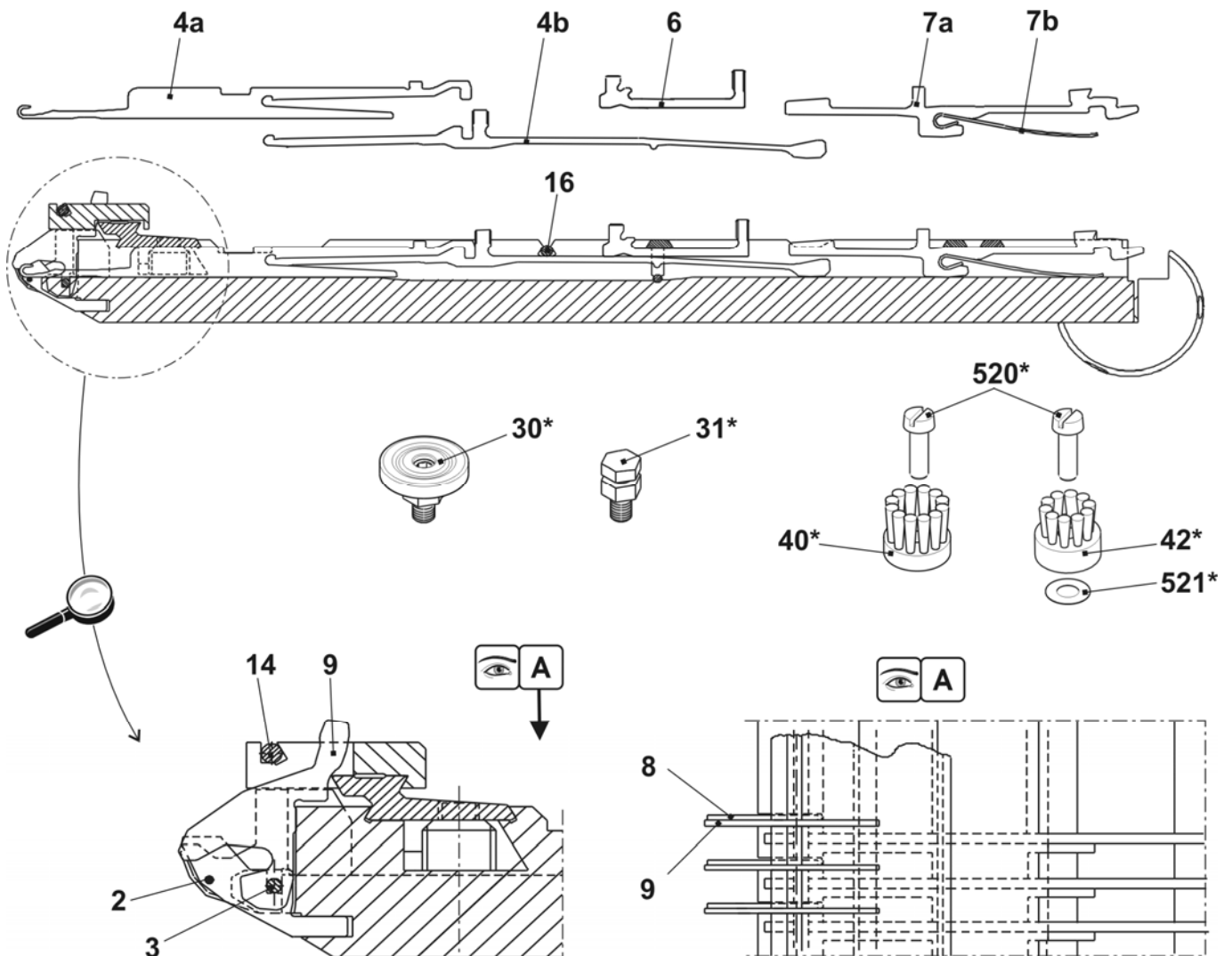
Needle bed E7m.5

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front + rear E7m.5	210 433	15	Support	206 352
1	Needle bed at the front + rear E7	210 992	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E7	211 039	500	Cap screw M5x10	022 918
5	Holding-down jack bed E7	211 046	502	Cap screw M6x25	020 137
6	Limiter on the left E4-8	205 343	503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344	504	Cap screw M5x22	023 193
8	Needle rail	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E7	210 983	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



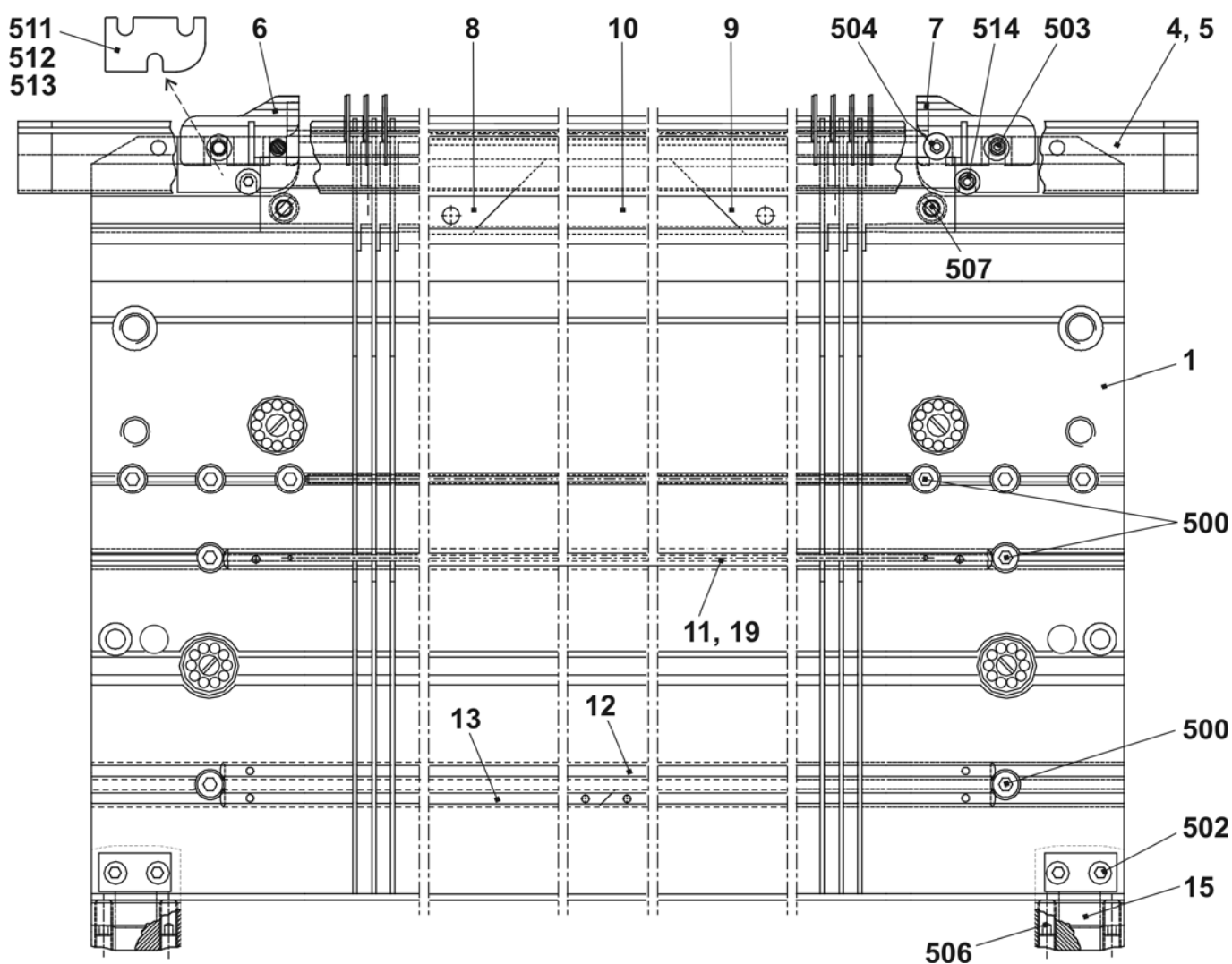
Continuation needle bed E7m.5

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front + rear E7m.5	210 433	9	Holding-down jack E7	205 032
2	Spring steel wire 0.8 D	210 970	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E5 - E6 with round hook	205 396	30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682	31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323	40*	Plate brush	235 612
7a	Coupling part E4-8	200 687	42*	Plate brush	206 200
7b	Selector spring E4-8	200 690	520*	Cap screw M5x12	020 032
8	Knock-over bit E7	207 055	521*	Adjusting washer P6x12x03	023 540



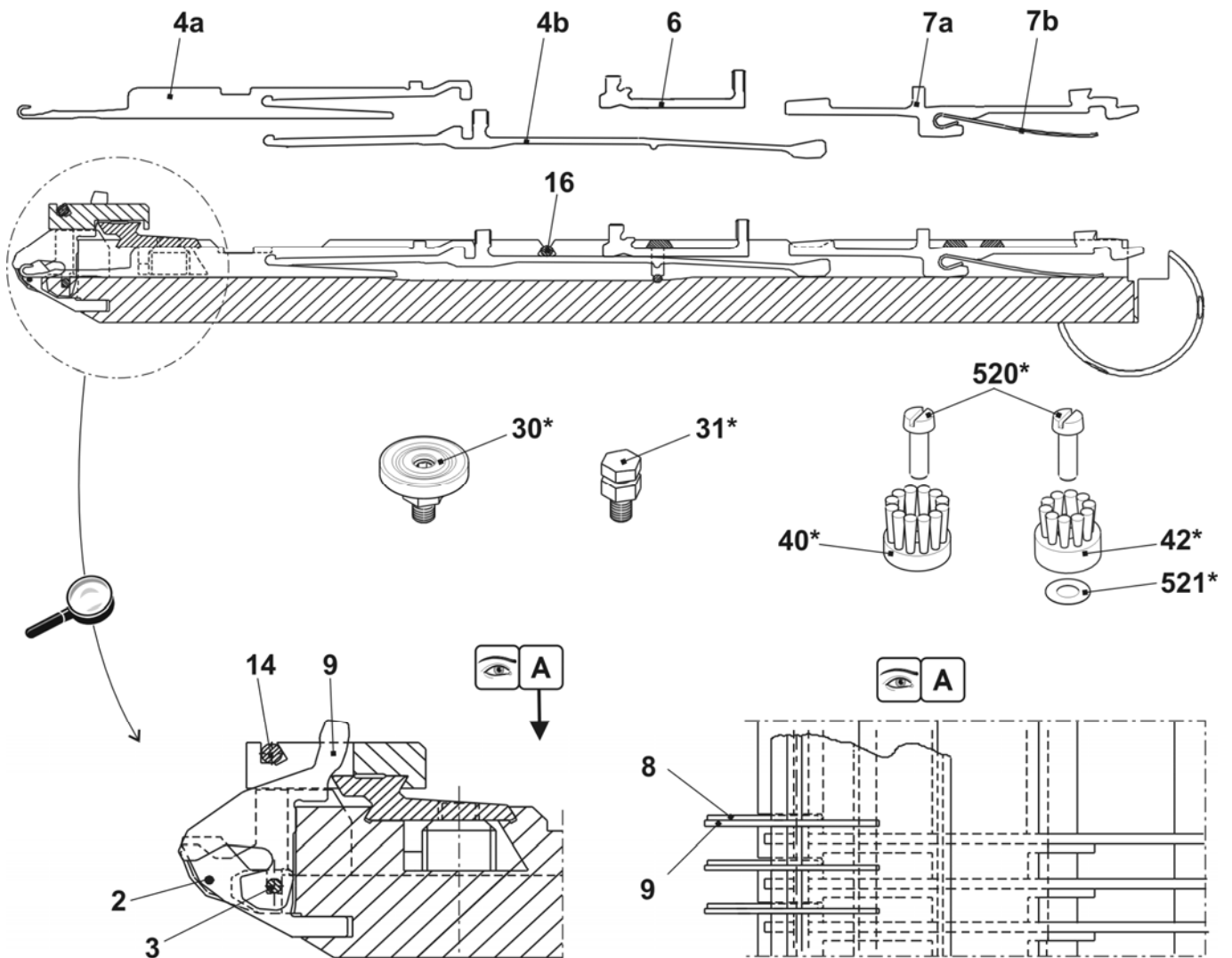
Needle bed E7m.8

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front + rear E7m.8	210 434	15	Support	206 352
1	Needle bed at the front + rear E7	210 992	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E7	211 039	500	Cap screw M5x10	022 918
5	Holding-down jack bed E7	211 046	502	Cap screw M6x25	020 137
6	Limiter on the left E4-8	205 343	503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344	504	Cap screw M5x22	023 193
8	Needle rail	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E7	210 983	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



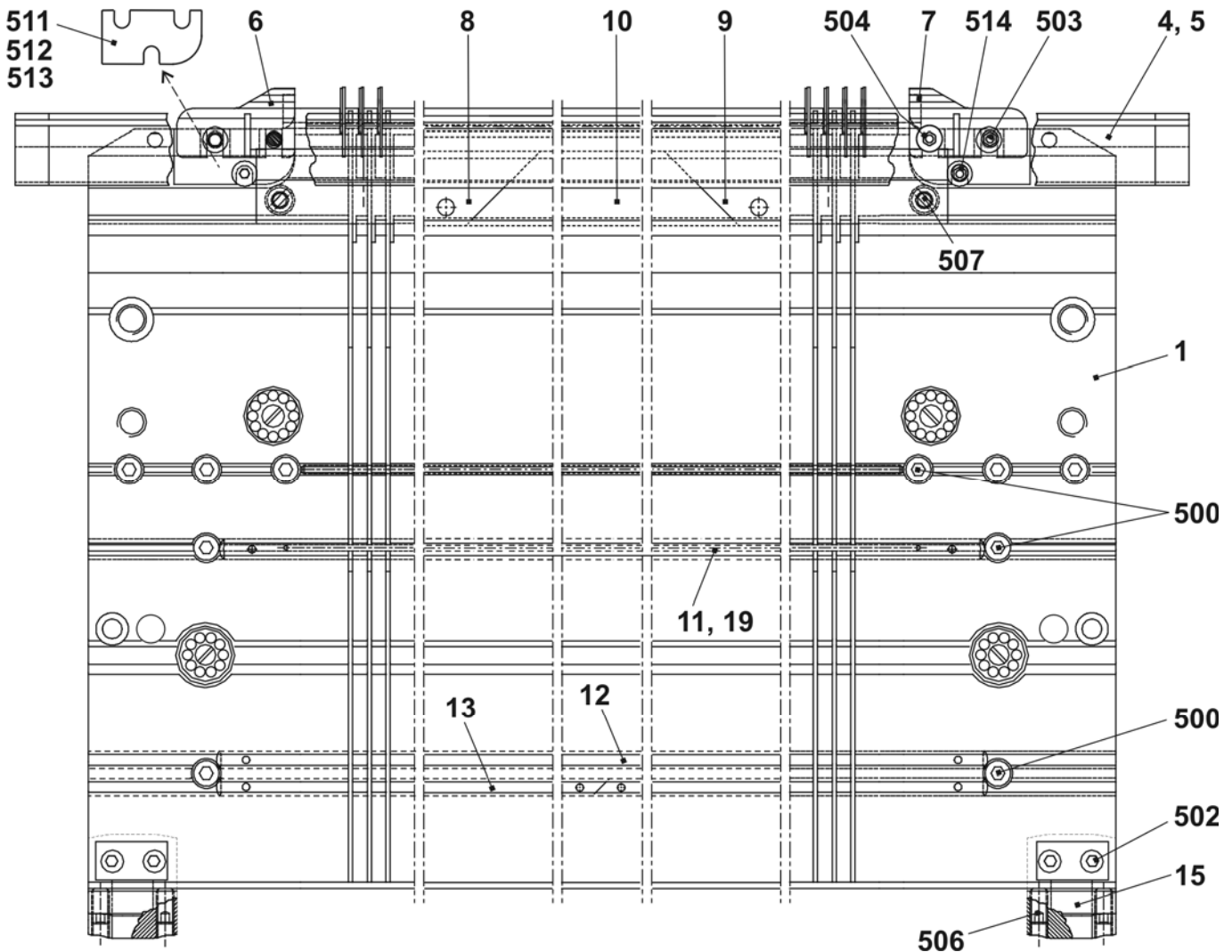
Continuation needle bed E7m.8

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front + rear E7m.8	210 434	9	Holding-down jack E7	205 032
2	Spring steel wire 0.8 D	210 970	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E8 with round hook	208 745	30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682	31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323	40*	Plate brush	235 612
7a	Coupling part E4-8	200 687	42*	Plate brush	206 200
7b	Selector spring E4-8	200 690	520*	Cap screw M5x12	020 032
8	Knock-over bit E7	207 055	521*	Adjusting washer P6x12x03	023 540



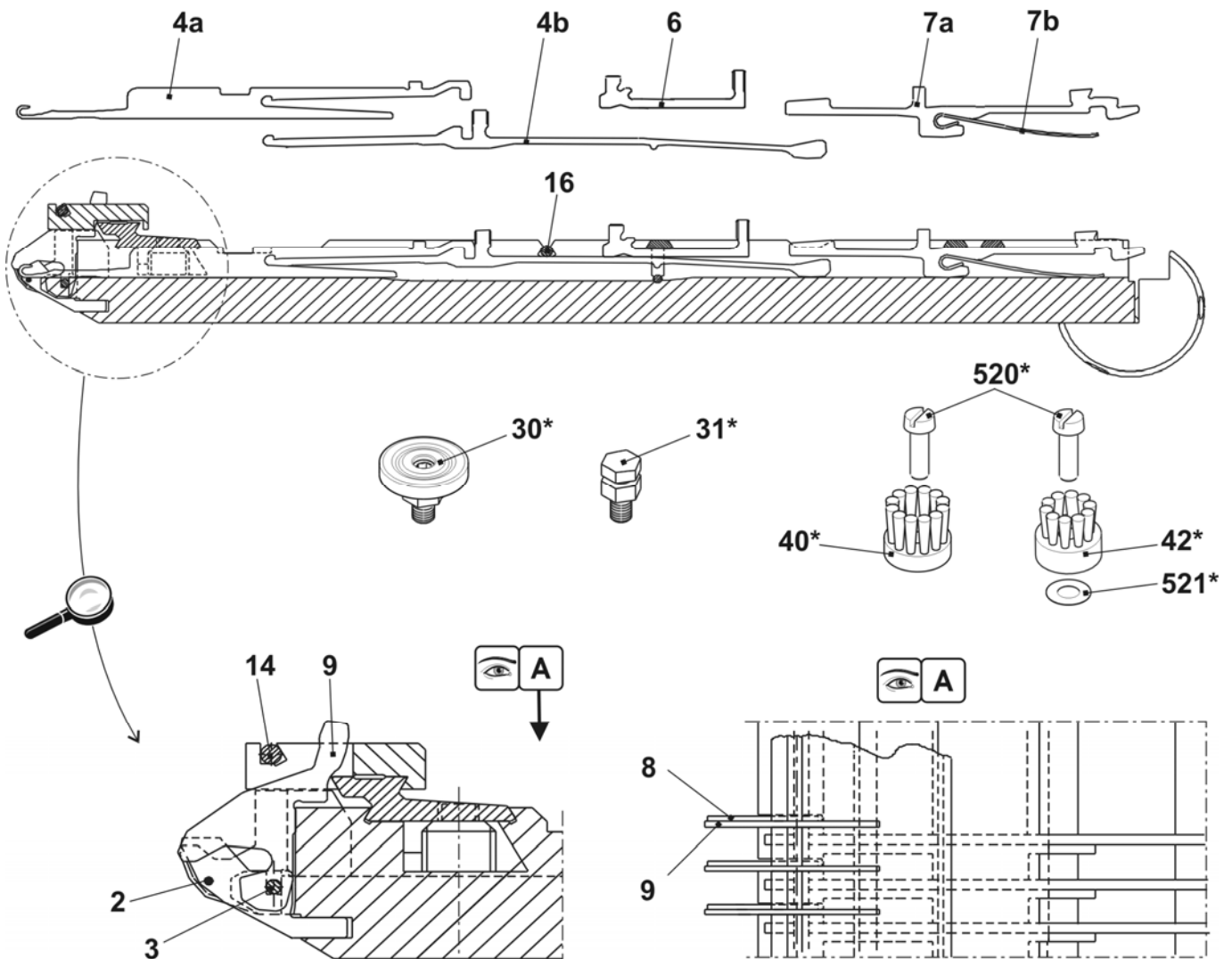
Needle bed E8m.7

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E8m.7	210 435	15	Support	206 352
1	Needle bed at the front + rear E8	210 993	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E8	211 040	500	Cap screw M5x10	022 918
5	Holding-down jack bed E8	211 047	502	Cap screw M6x25	020 137
6	Limiter on the left E4-8	205 343	503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344	504	Cap screw M5x22	023 193
8	Needle rail	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E8	210 984	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



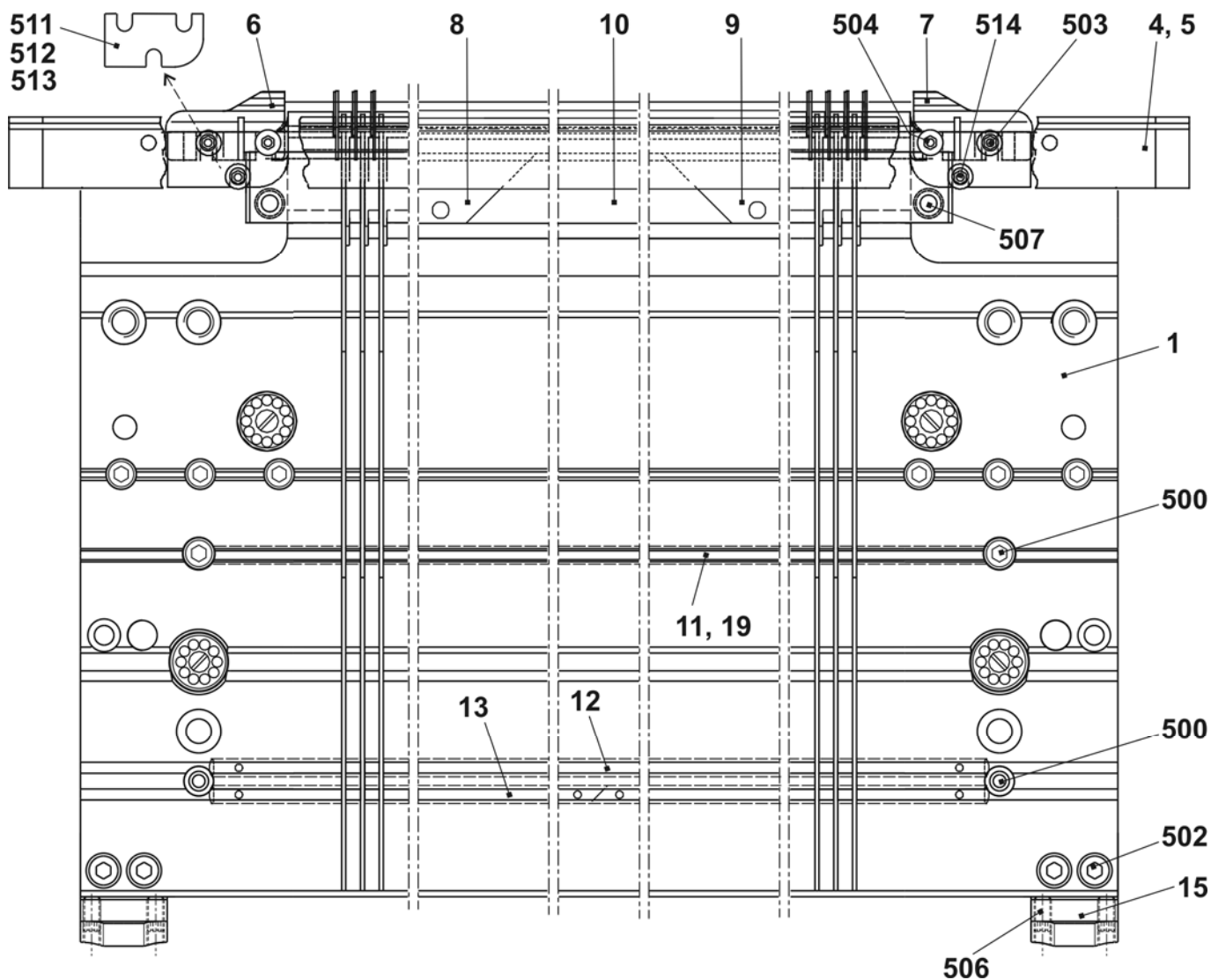
Continuation needle bed E8m.7

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E8m.7	210 435	9	Holding-down jack E8	205 028
2	Spring steel wire 0.8 D	210 970	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E7 with round hook	205 397	30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682	31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323	40*	Plate brush	235 612
7a	Coupling part E4-8	200 687	42*	Plate brush	206 200
7b	Selector spring E4-8	200 690	520*	Cap screw M5x12	020 032
8	Knock-over bit E8	207 054	521*	Adjusting washer P6x12x03	023 540



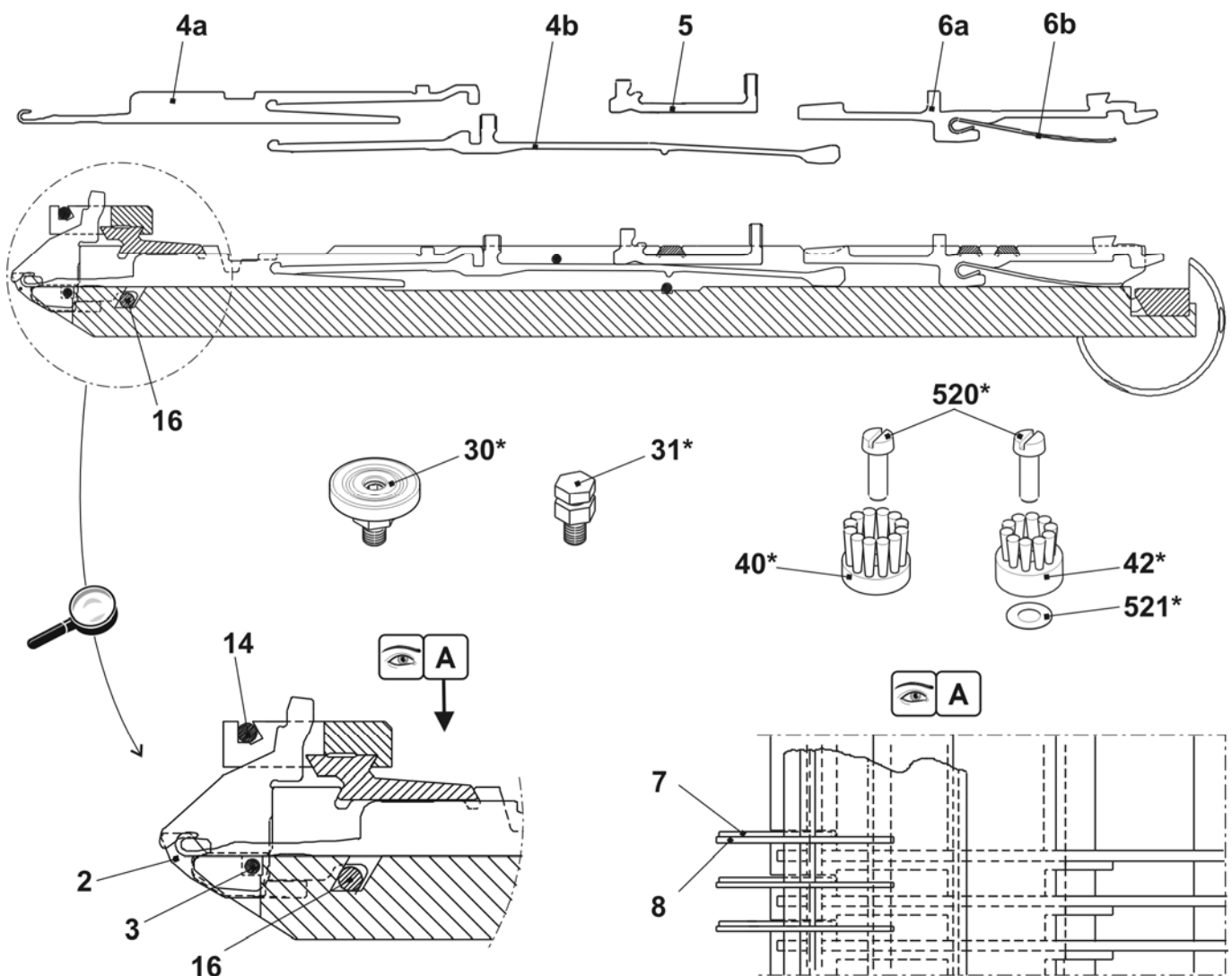
Needle bed E10m.12

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E10m.12	241 662	15	Support	206 352
1	Needle bed at the front + rear E10	241 648	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E10	211 041	500	Cap screw M5x10	022 918
5	Holding-down jack bed E10	211 048	502	Cap screw M6x25	020 137
6	Limiter on the left E10-14	205 764	503	Cap screw M5x8-8.8	023 154
7	Limiter on the left E10-14	205 765	504	Cap screw M5x22	023 193
8	Needle rail on the left	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E10	210 985	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



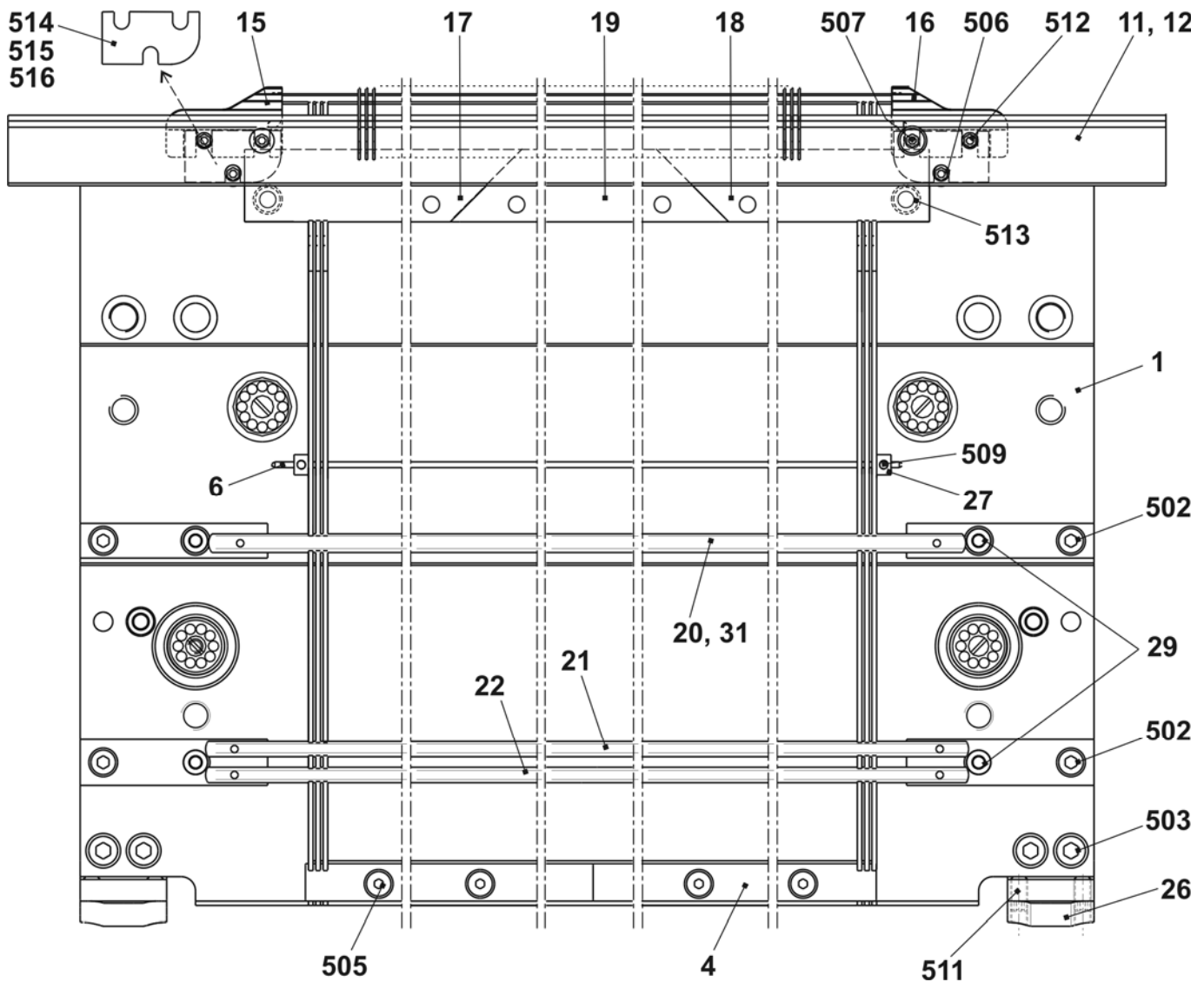
Continuation needle bed E10m.12

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E10m.12	241 662	8	Holding-down jack (trick wall) E10	239 815
2	Spring steel wire 0.6 D	210 969	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E12	204 009	30*	Adjusting piece	206 375
4b	Coupling part E10-12	200 683	31*	Set screw complete	207 712
5	Intermediate slider with brake E10	237 324	40*	Plate brush	235 612
6a	Selection jack E10-12	200 688	42*	Plate brush	206 200
6b	Selector spring E10-12	200 691	520*	Cap screw M5x12	020 032
7	Knock-over bit E10	239 756	521*	Adjusting washer P6x12x03	023 540



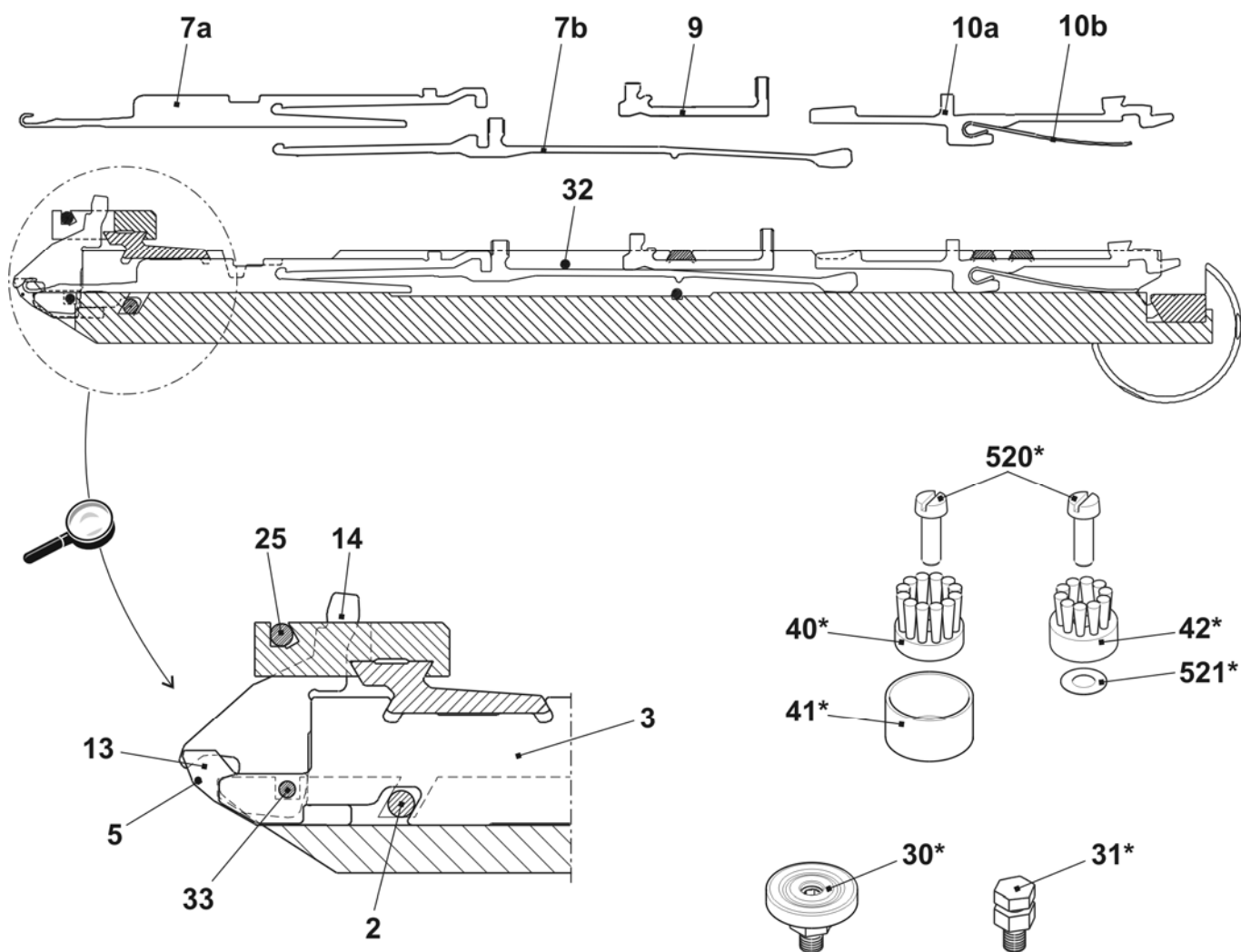
Needle bed E12m.10

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E12m.10	210 437	27	Bush	206 090
1	Needle bed at the front rear E12	210 995	29	Dowel pin 5x12	209 484
4	Pressure bar	211 009	31	Cover rail at the rear	210 979
6	Spring steel wire 2.0 D	210 972	502	Cap screw M5x12	020 132
11	Holding-down jack bed at the front E12	211 042	503	Cap screw M6X14	022 658
12	Holding-down jack bed E12	211 049	505	Cap screw M5x8	023 379
15	Limiter on the left E10-14	205 764	506	Cap screw M5x12-8.8	022 943
16	Limiter on the left E10-14	205 765	507	Cap screw M5x22	023 193
17	Needle rail on the left	205 311	509	Set screw Iso4766-M3,5x3-1	020 512
18	Needle rail on the right	205 312	511	Set screw Iso4026-M6x12-45	022 400
19	Needle rail	210 977	512	Cap screw M5x8	023 154
20	Cover rail at the front E12	210 986	513	Sprung thrust piece B-M10	023 177
21	Cover rail	210 978	514	Shim 0.05x18.5x34	023 196
22	Cover rail	210 980	515	Shim 0.1x18.5x34	023 197
26	Support	206 352	516	Shim 0.2x18.5x34	023 253



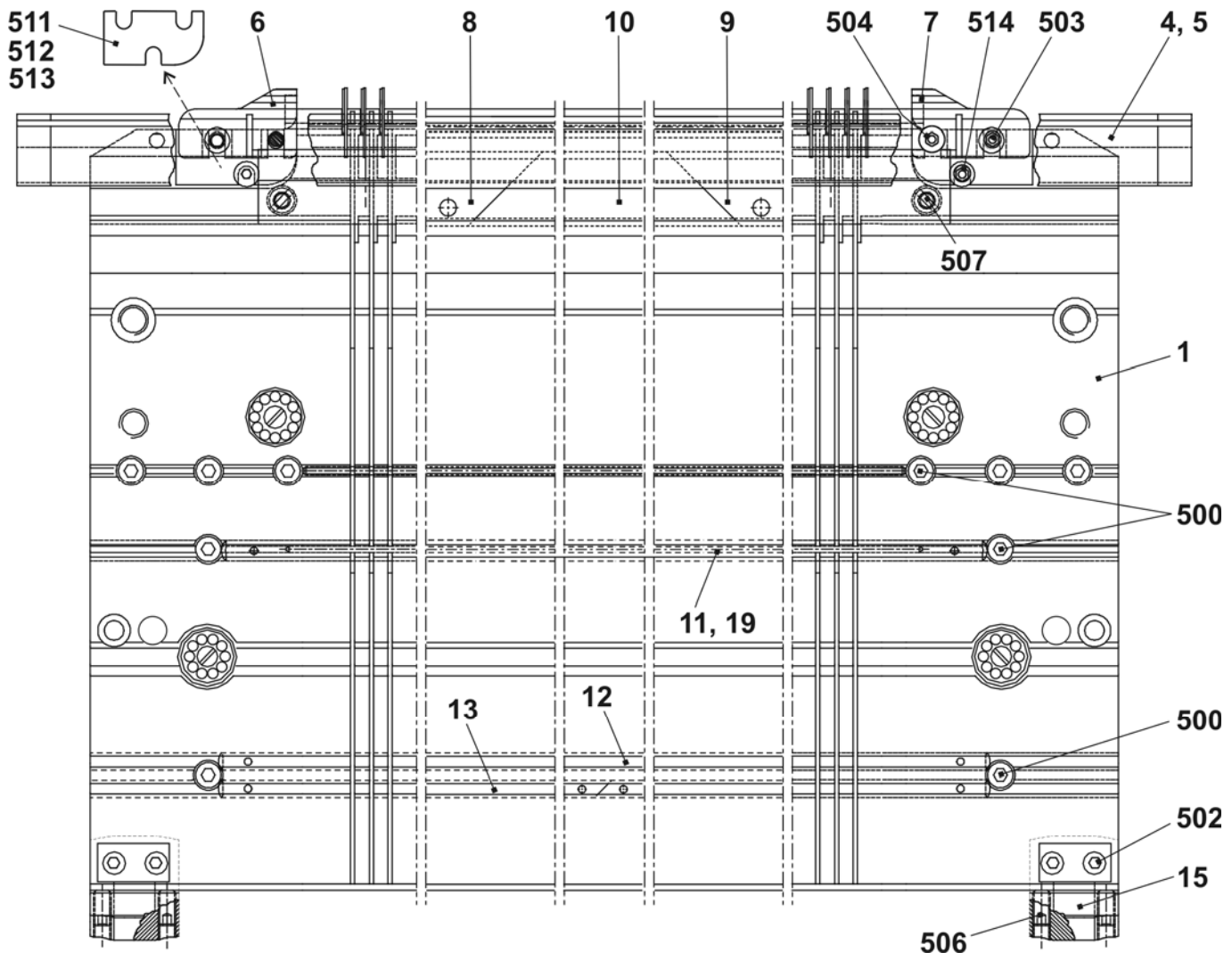
Continuation needle bed E12m.10

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E12m.10	210 437	25	Fixed wire 2.8 D	210 974
2	Spring steel wire 3,4D	210 975	32	Spring steel wire 2.0 D	210 973
3	Main trick wall E12	205 355	33	Spring steel wire 1.95 D	212 184
5	Spring steel wire 0.6 D	210 969	30*	Adjusting piece	206 375
7a	Needle E10 with round hook	205 398	31*	Set screw complete	207 712
7b	Coupling part E10-12	200 683	40*	Plate brush	235 612
9	Intermediate slider with brake E10-12	237 324	41*	Container plate brush	233 012
10a	Selection jack E10-12	200 688	42*	Plate brush	206 200
10b	Selector spring E10-12	200 691	520*	Cap screw M5x12	020 032
13	Knock-over bit E12	205 013	521*	Adjusting washer P6x12x03	023 540
14	Holding-down jack (trick wall) E12	227 821			



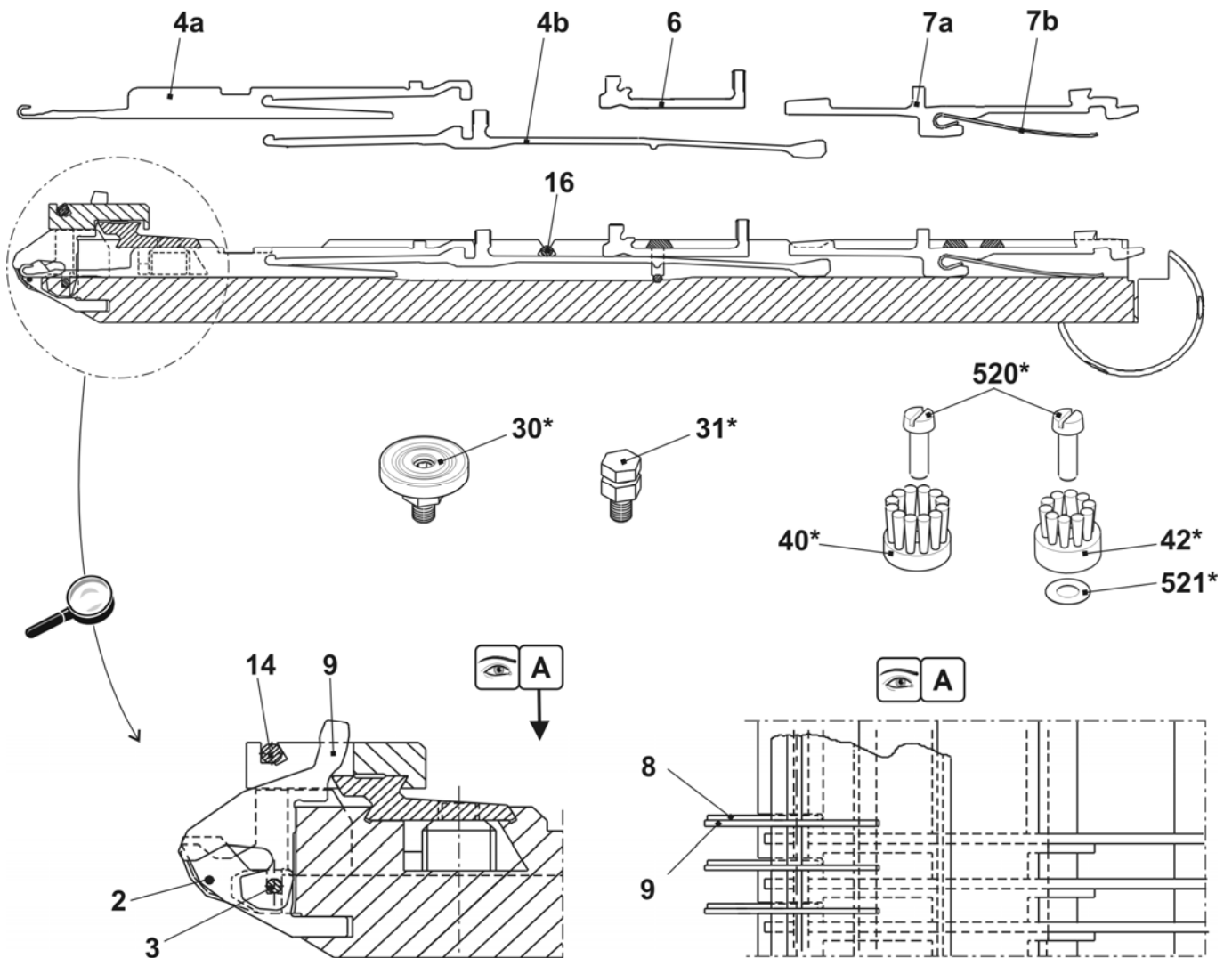
Needle bed E3,5.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E3,5.2	244 613	15	Support	206 352
1	Needle bed at the front + rear E7	210 992	19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E2,5.2 mg	240 174	500	Cap screw M5x10	022 918
5	Holding-down jack bed E3,5.2	240 175	502	Cap screw M6x25	020 137
6	Limiter on the left E4-8	205 343	503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344	504	Cap screw M5x22	023 193
8	Needle rail	205 311	506	Set screw M6x12-45	022 400
9	Needle rail on the right	205 312	507	Sprung thrust piece B-M10	023 177
10	Needle rail	210 977	511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E7	210 983	512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978	513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980	514	Cap screw M5x8	023 379



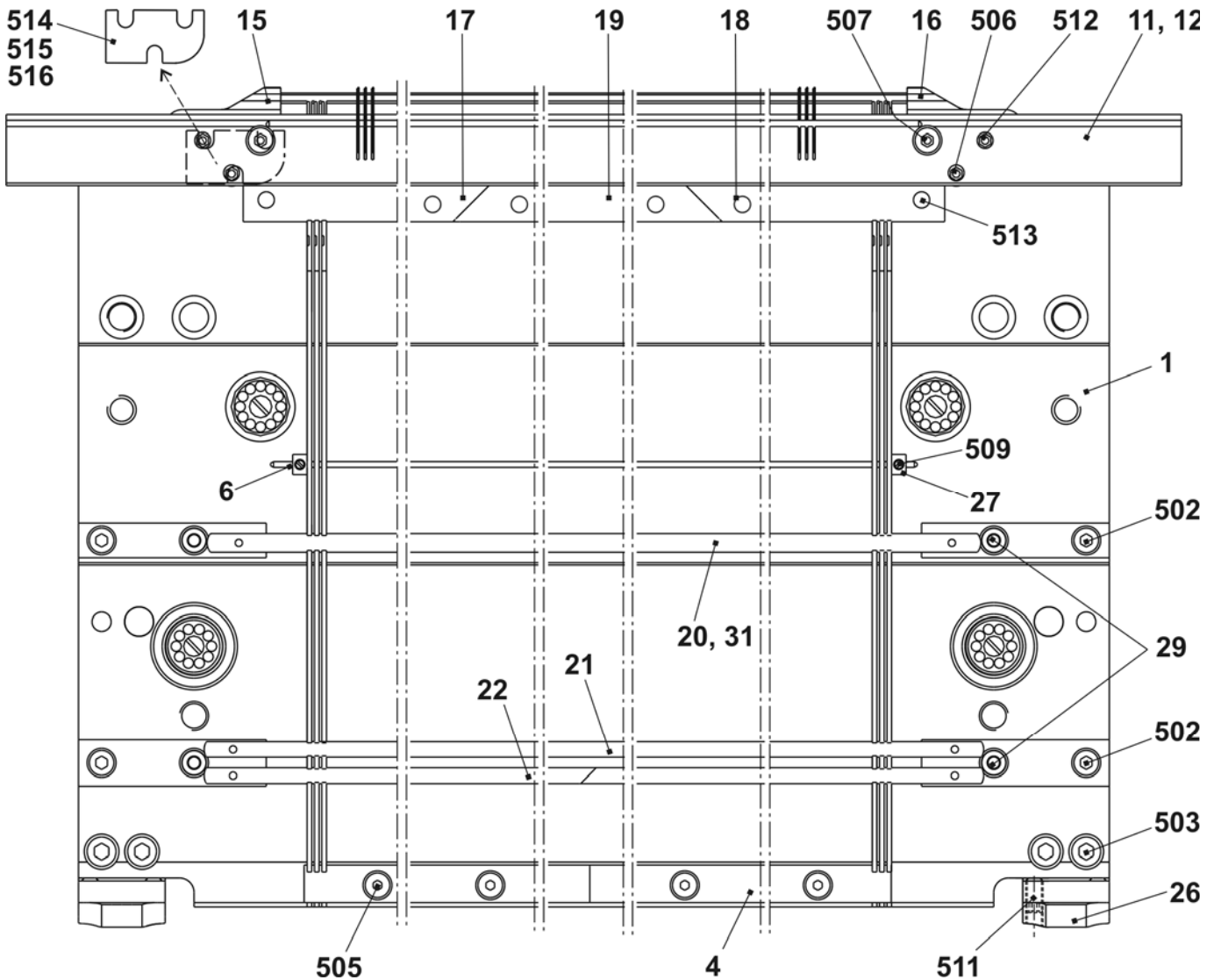
Continuation needle bed E3,5.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E7	244 613	9	Holding-down jack E7	205 032
2	Spring steel wire 0.8 D	210 970	14	Fixed wire 2.8 D	210 974
3	Spring steel wire 2.0 D	210 972	16	Spring steel wire 2.8 D	212 173
4a	Needle E2,5.2-3.5.2	232 581	30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682	31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323	40*	Plate brush	235 612
7a	Coupling part E4-8	200 687	42*	Plate brush	206 200
7b	Selector spring E4-8	200 690	520*	Cap screw M5x12	020 032
8	Knock-over bit E7	207 055	521*	Adjusting washer P6x12x03	023 540



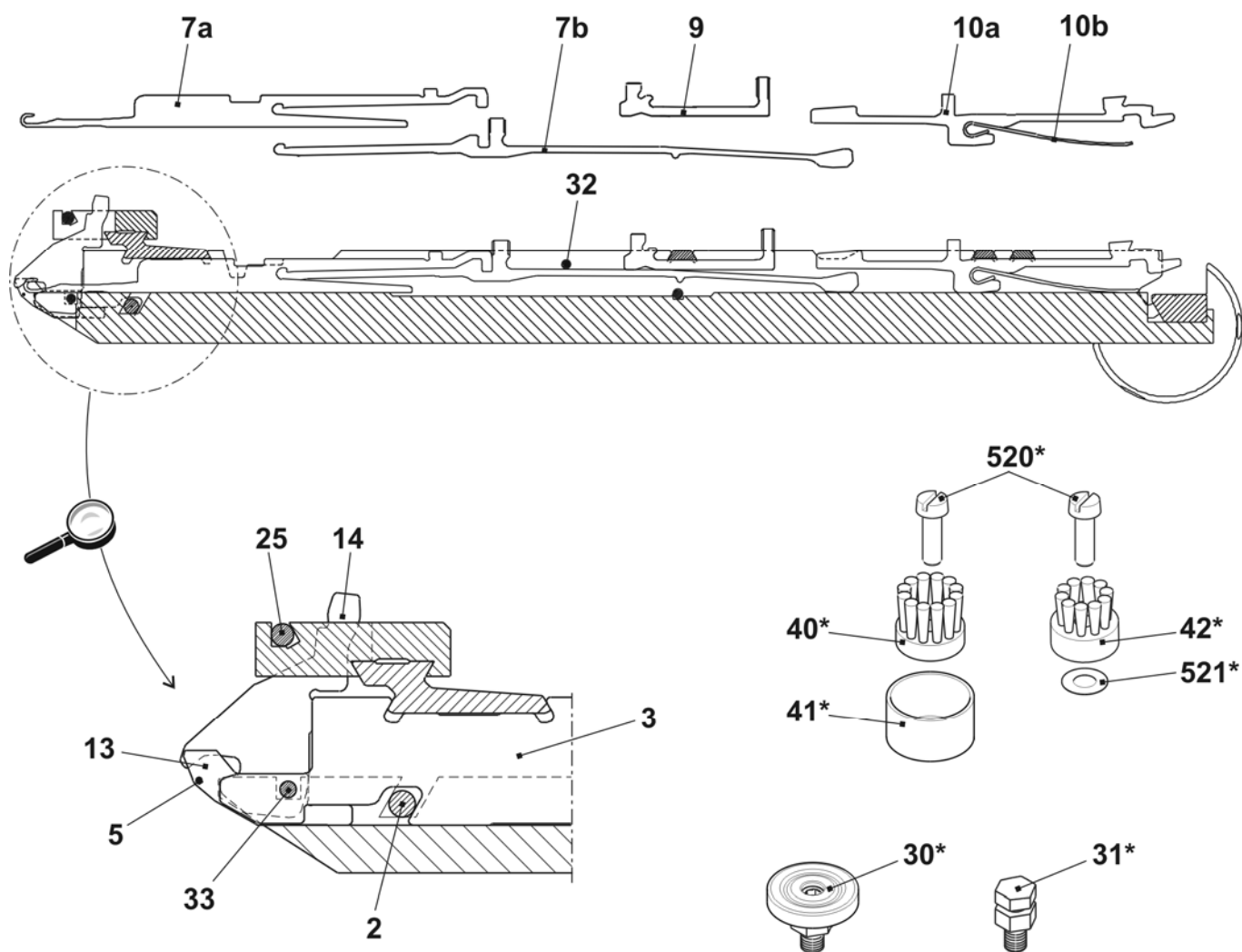
Needle bed E5.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E5.2	244 611	27	Bush	206 090
1	Needle bed at the front + rear E5.2	244 532	29	Dowel pin 5x12	209 484
4	Pressure bar	211 009	31	Cover rail at the rear	210 979
6	Spring steel wire 2.0 D	210 972	502	Cap screw M5x12	020 132
11	Holding-down jack bed at the front E5.2	244 526	503	Cap screw M6X14	022 658
12	Holding-down jack bed E5.2	244 527	505	Cap screw M5x8	023 379
15	Limiter on the left E4-8	205 343	506	Cap screw M5x12-8.8	022 943
16	Limiter on the right E4-8	205 344	507	Cap screw M5x22	023 193
17	Needle rail on the left	205 311	509	Set screw M3,5x3-1	020 512
18	Needle rail on the right	205 312	511	Set screw M6x12-45	022 400
19	Needle rail	210 977	512	Cap screw M5x8	023 154
20	Cover rail at the front E10	210 985	513	Sprung thrust piece B-M10	023 177
21	Cover rail	210 978	514	Shim 0.05x18.5x34	023 196
22	Cover rail	210 980	515	Shim 0.1x18.5x34	023 197
26	Support	206 352	516	Shim 0.2x18.5x34	023 253



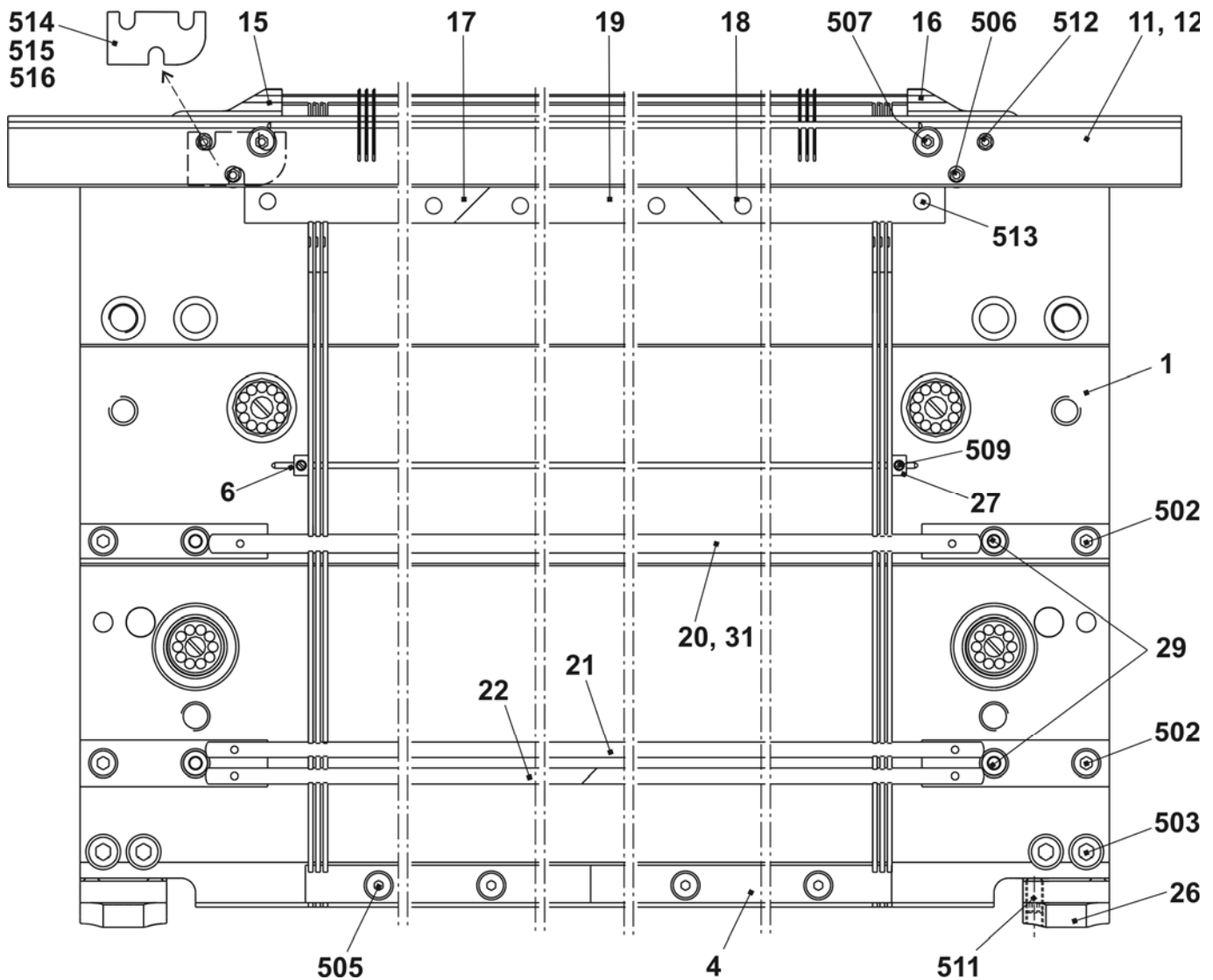
Continuation needle bed E5.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E5.2	244 611			
2	Fixed wire 3.4 D	210 975	25	Fixed wire 2.8 D	210 974
3	Main trick wall E5.2	219 171	32	Spring steel wire 2.0 D	210 973
5	Spring steel wire 1.0 D	210 971	33	Spring steel wire 1,95	212 184
7a	Needle E5.2	219 181	30*	Adjusting piece	206 375
7b	Coupling part E5.2	211 188	31*	Set screw complete	207 712
9	Intermediate slider with brake E5.2	236 030	40*	Plate brush	235 612
10a	Selection jack E5.2	219 214	41*	Container plate brush	233 012
10b	Selector spring E5.2	219 265	42*	Plate brush	206 200
13	Knock-over bit E5.2	221 367	520*	Cap screw M5x12	020 032
14	Holding-down jack (trick wall)	227 716	521*	Adjusting washer P6x12x03	023 540



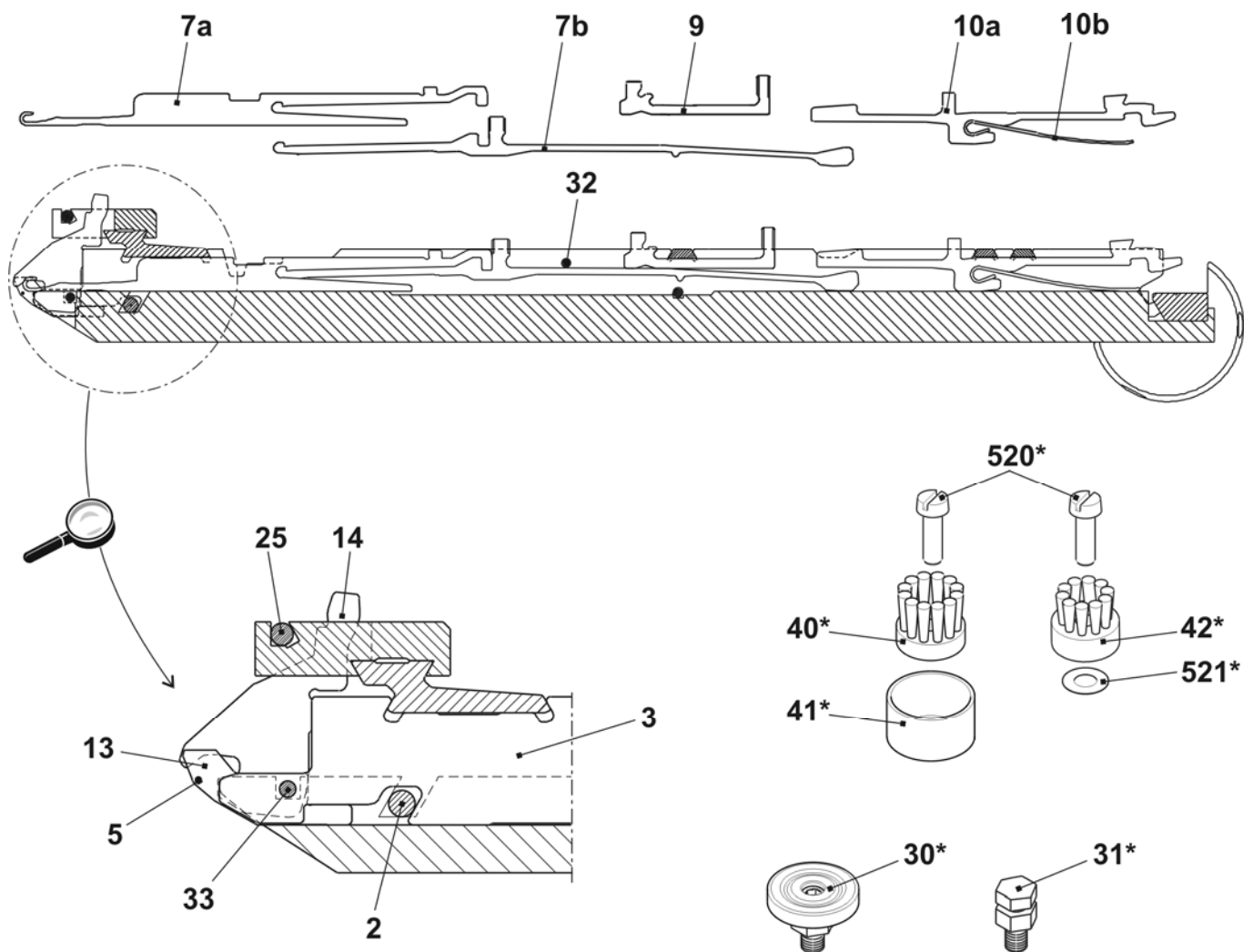
Needle bed E6.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear E6.2	244 614	27	Bush	206 090
1	Needle bed at the front rear E12	210 995	29	Dowel pin 5x12	209 484
4	Pressure bar	211 009	31	Cover rail at the rear	210 979
6	Spring steel wire 2.0 D	210 972	502	Cap screw M5x12	020 132
11	Holding-down jack bed at the front E6.2	244 524	503	Cap screw M6X14	022 658
12	Holding-down jack bed E6.2	244 525	505	Cap screw M5x8	023 379
15	Limiter on the left E10-14	205 764	506	Cap screw M5x12-8.8	022 943
16	Limiter on the left E10-14	205 765	507	Cap screw M5x22	023 193
17	Needle rail on the left	205 311	509	Set screw Iso4766-M3,5x3-1	020 512
18	Needle rail on the right	205 312	511	Set screw Iso4026-M6x12-45	022 400
19	Needle rail	210 977	512	Cap screw M5x8	023 154
20	Cover rail at the front E12	210 986	513	Sprung thrust piece B-M10	023 177
21	Cover rail	210 978	514	Shim 0.05x18.5x34	023 196
22	Cover rail	210 980	515	Shim 0.1x18.5x34	023 197
26	Support	206 352	516	Shim 0.2x18.5x34	023 253



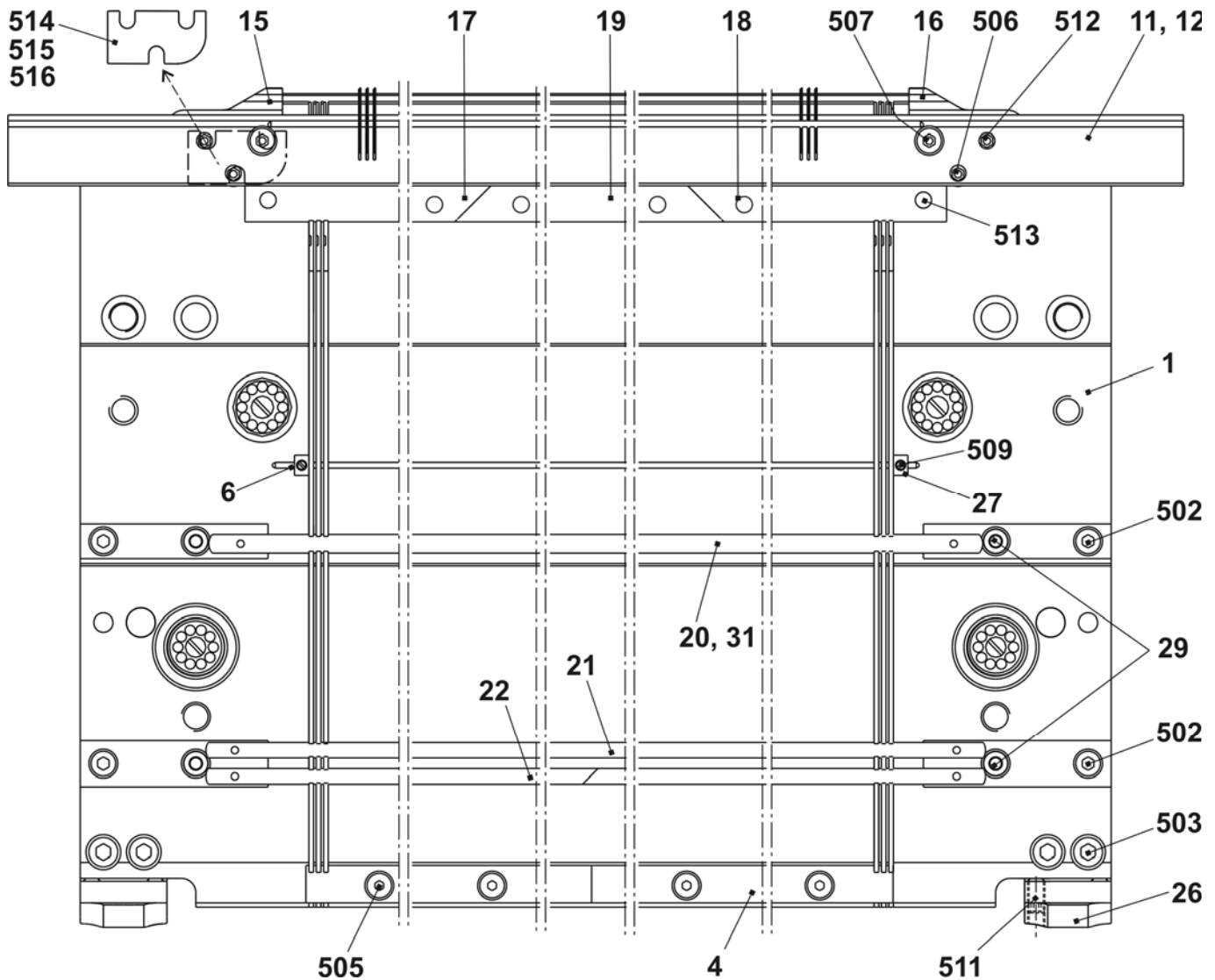
Continuation needle bed E6.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front + rear E6.2	244 614	25	Fixed wire 2.8 D	210 974
2	Spring steel wire 3,4D	210 975	32	Spring steel wire 2.0 D	210 973
3	Main trick wall E12	205 355	33	Spring steel wire 1.95 D	212 184
5	Spring steel wire 0.6 D	210 969	30*	Adjusting piece	206 375
7a	Needle E6.2	207 349	31*	Set screw complete	207 712
7b	Coupling part E10-12	200 683	40*	Plate brush	235 612
9	Intermediate slider with brake E10-12	237 324	41*	Container plate brush	233 012
10a	Selection jack E10-12	200 688	42*	Plate brush	206 200
10b	Selector spring E10-12	200 691	520*	Cap screw M5x12	020 032
13	Knock-over bit E12	205 013	521*	Adjusting washer P6x12x03	023 540
14	Holding-down jack (trick wall) E12	227 821			



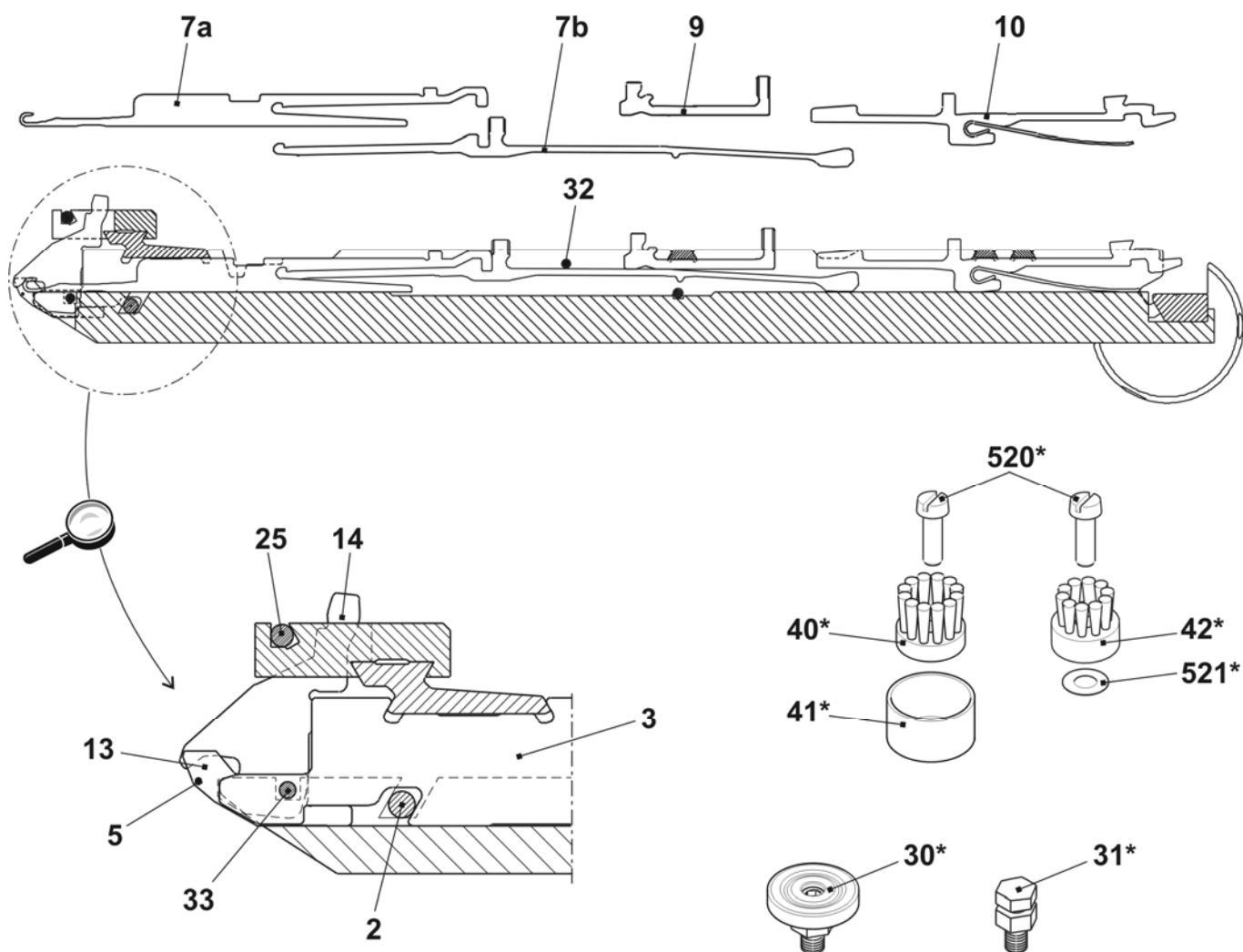
Needle bed E7.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front + rear E7.2	244 617	27	Bush	206 090
1	Needle bed at the front rear E14	210 996	29	Dowel pin 5x12	209 484
4	Pressure bar	211 009	31	Cover rail at the rear	210 979
6	Spring steel wire 2.0 D	210 972	502	Cap screw M5x12	020 132
11	Holding-down jack bed at the front E7.2 MG	240 176	503	Cap screw M6x14	022 658
12	Holding-down jack bed E7.2 MG	240 177	505	Cap screw M5x8	023 379
15	Limiter on the left E10-14	205 764	506	Cap screw M5x12-8.8	022 943
16	Limiter on the left E10-14	205 765	507	Cap screw M5x22	023 193
17	Needle rail on the left	205 311	509	Set screw M3,5x3-1	020 512
18	Needle rail on the right	205 312	511	Set screw I6x12-45	022 400
19	Needle rail	210 977	512	Cap screw M5x8	023 154
20	Cover rail at the front E14	210 987	513	Sprung thrust piece B-M10	023 177
21	Cover rail	210 978	514	Shim 0.05x18.5x34	023 196
22	Cover rail	210 980	515	Shim 0.1x18.5x34	023 197
26	Support	206 352	516	Shim 0.2x18.5x34	023 253



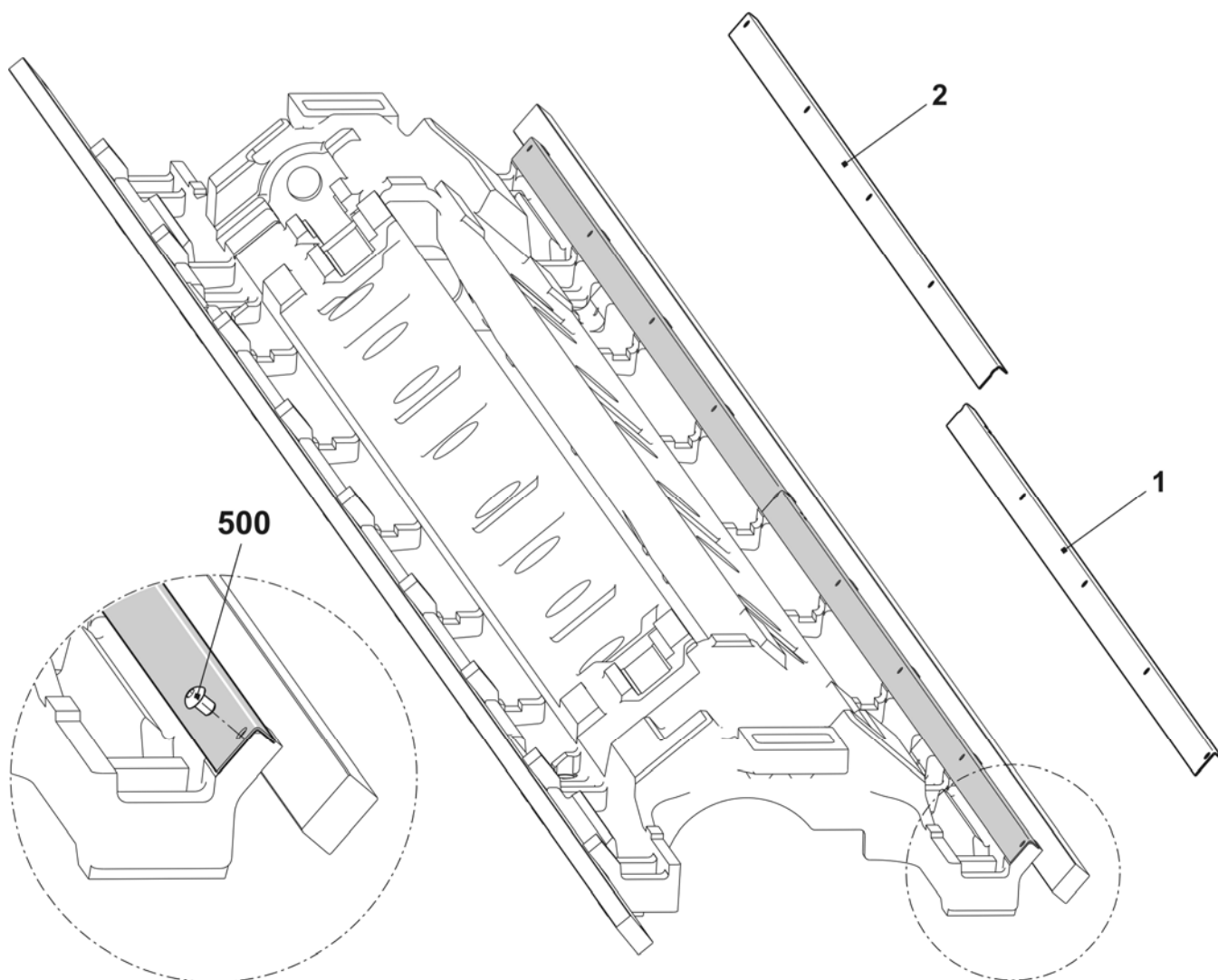
Continuation needle bed E7.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle bed complete at the front and rear	210 432	25	Fixed wire 2.8 D	210 974
2	Spring steel wire 3,4D	210 975	32	Spring steel wire 2.0 D	210 973
3	Main trick wall E14	209 574	33	Spring steel wire 1.95 D	212 184
5	Spring steel wire 0.6 D	210 969	30*	Adjusting piece	206 375
7a	Needle 7.2	225 230	31*	Set screw complete	207 712
7b	Coupling part E14	209 633	40*	Plate brush	235 612
9	Intermediate slider with brake E14	237 373	41*	Container plate brush	233 012
10	Selection jack E14 with spring	224 725	42*	Plate brush	206 200
13	Knock-over bit E14	209 649	520*	Cap screw M5x12	020 032
14	Holding-down jack (trick wall) E14	235 262	521*	Adjusting washer P6x12x03	023 540



Cover on the left and on the right

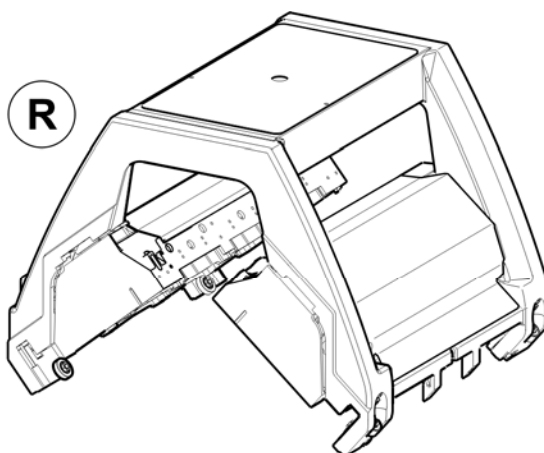
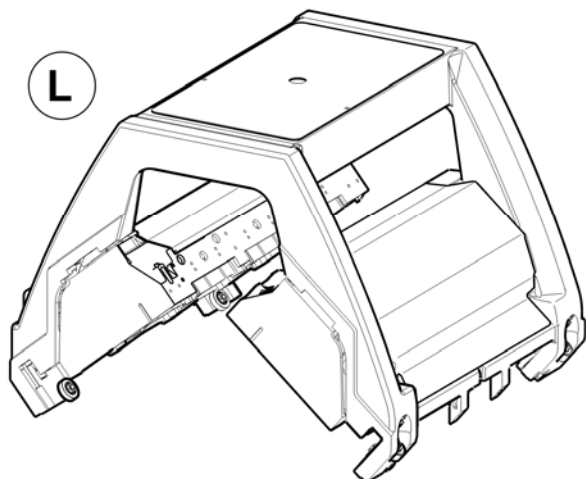
Pos	Designation	Ident No	Pos	Designation	Ident No
1	Cover on the left	242 253	500	Countersunk screw M8x10	241 930
2	Cover on the right	242 254			



Tandem Carriage

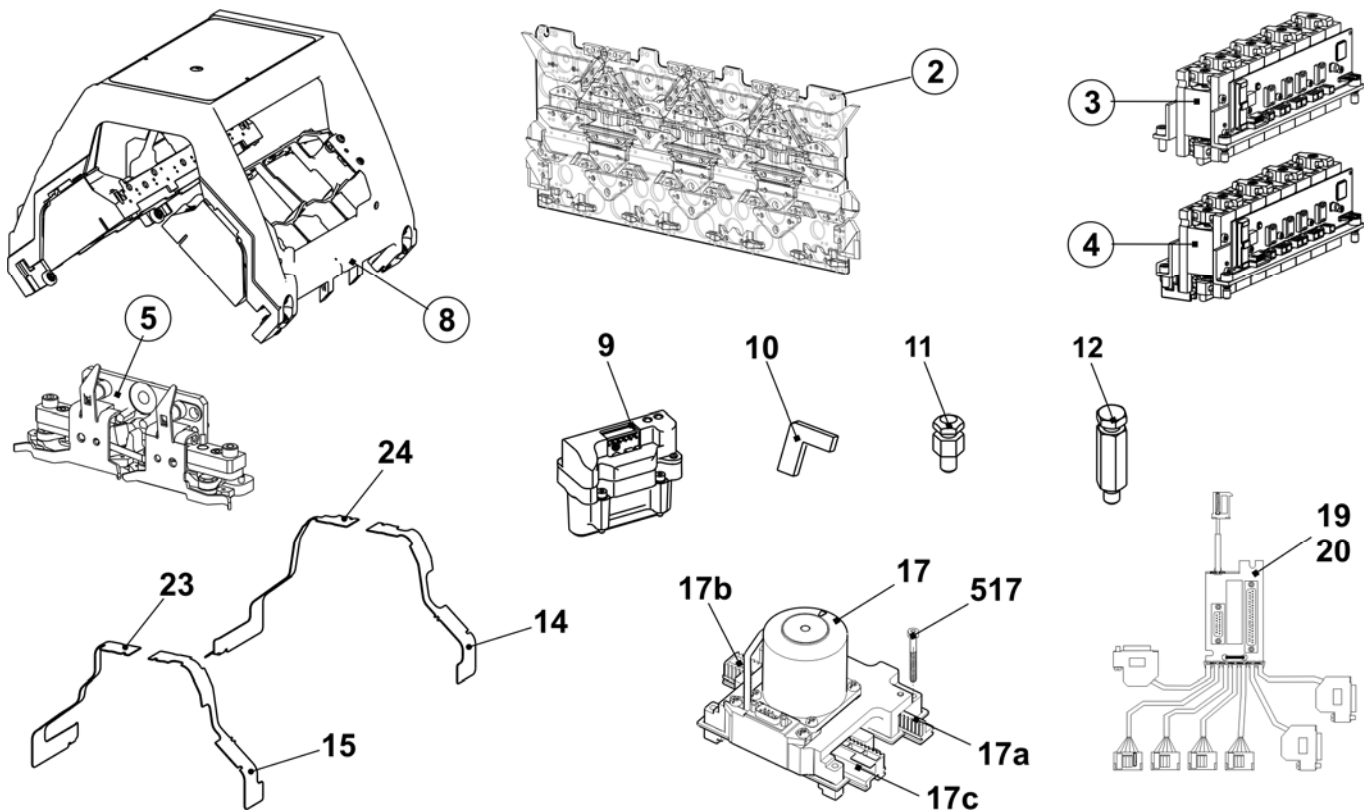
Complete Carriage

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ L	Carriage left complete		Σ R	Carriage right complete	241 080
	E5 + E5m.4 + E7m.5 + E3,5.2	244 465		E5 + E5m.4 + E7m.5 + E3,5.2	244 466
	E7 + E8 + E7m.8 + E8m.7	243 884		E7 + E8 + E7m.8 + E8m.7	243 885
	E10	244 744		E10	244 745
	E12	243 904		E12	243 905
	E14	242 952		E14	242 953
	E10m.12	244 746		E10m.12	244 747
	E12m.10	244 748		E12m.10	244 749
	E5.2	244 773		E5.2	244 774
	E6.2	244 775		E6.2	244 776
	E7.2	244 777		E7.2	244 778



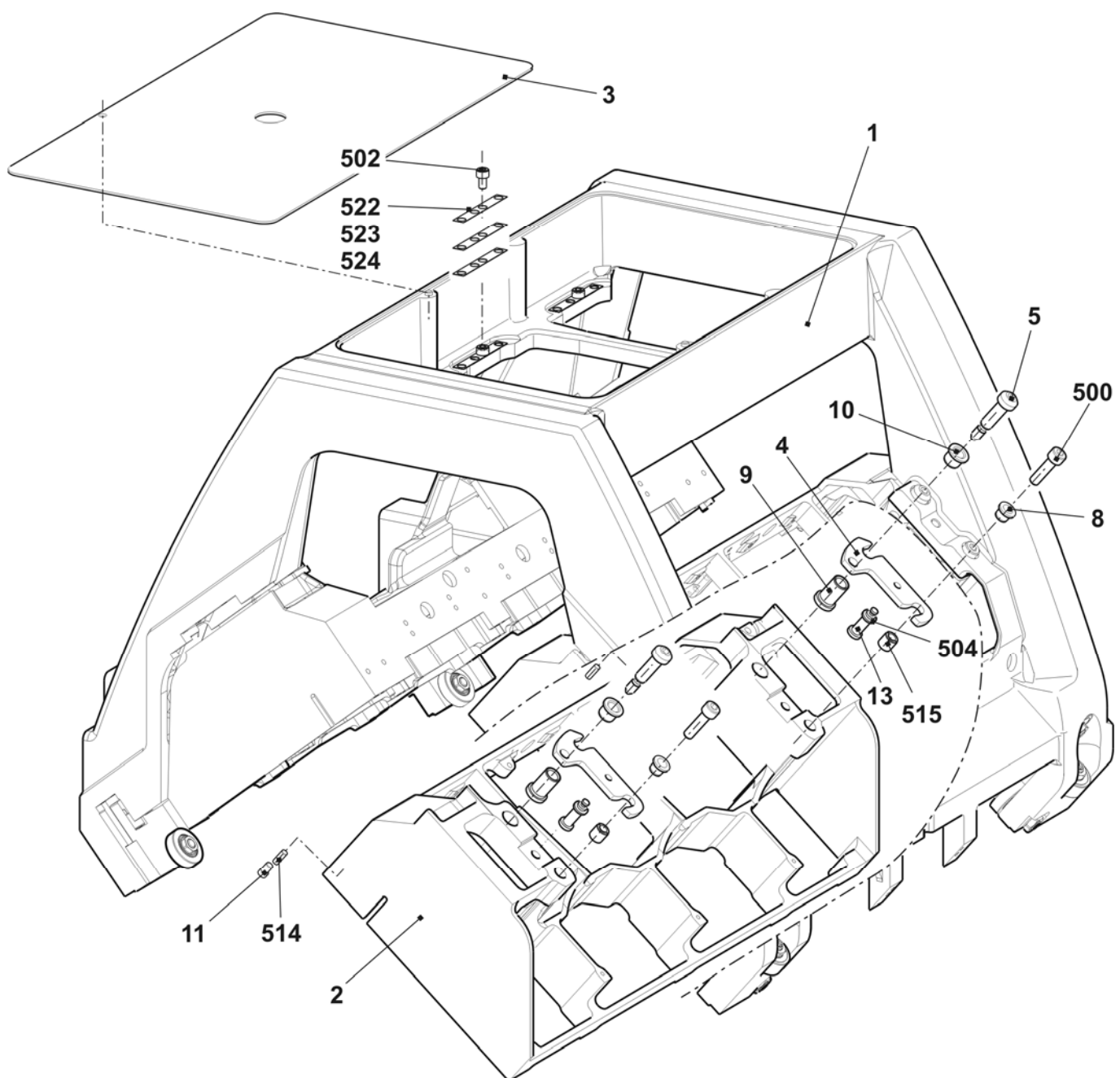
Overview of Carriage Parts

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Cam box set complete		8	Carriage assembly 3 cam boxes on the left complete	251 367
	E5 + E5m.4 + E7m.5 + E3,5.2 + E5.2	244 467		Carriage assembly 3 cam boxes on the right complete	251 368
	E7 + E8 + E7m.8 + E8m.7	243 883	9	Selection system complete	
	E10 left	244 742		E2 - E8 + E5m.4 + E7m.5 + E3,5.2 + E7m.8 + E8m.7	216 218
	E10 right	244 743		E10 + E12 + E5.2 + E6.2 + E10m.12 + E12m.10	216 219
	E12 left	243 906		E14 + E7.2	229 300
	E12 right	243 907	10	Wiper	241 411
	E14	242 962	11	Bolt	212 392
	E6.2	244 615	12	Bolt	212 204
	E7.2	244 618	14	Cover plate on the right	250 275
	E10m.12 left	244 750	15	Cover plate on the left	250 274
	E10m.12 right	244 751	17	Motor unit complete	211 017
	E12m.10 left	244 752	17a	Gear rack at the top	209 781
	E12m.10 right	244 753	17b	Gear rack in the middle	209 782
3	YC driving unit outside complete	241 080	17c	Gear rack at the bottom	209 783
4	YC driving unit in the middle complete	241 081	517	Screw M4x12	023 367
5	Holding-down jack control complete		19	Distributor at the rear left 933 okc	242 755
	E5 - E8 + E7m.8 + E8m.7 + E5m.4 + E7m.5 + E3,5.2 + E5.2	241 515	20	Distributor at the front left 933 okc	242 756
	E10 + E10m.12	241 516	23	Guide plate on the left at the rear	245 325
	E12 - E14 + E6.2 + E7.2 + E12m.10	241 517	24	Guide plate on the right at the rear	245 326



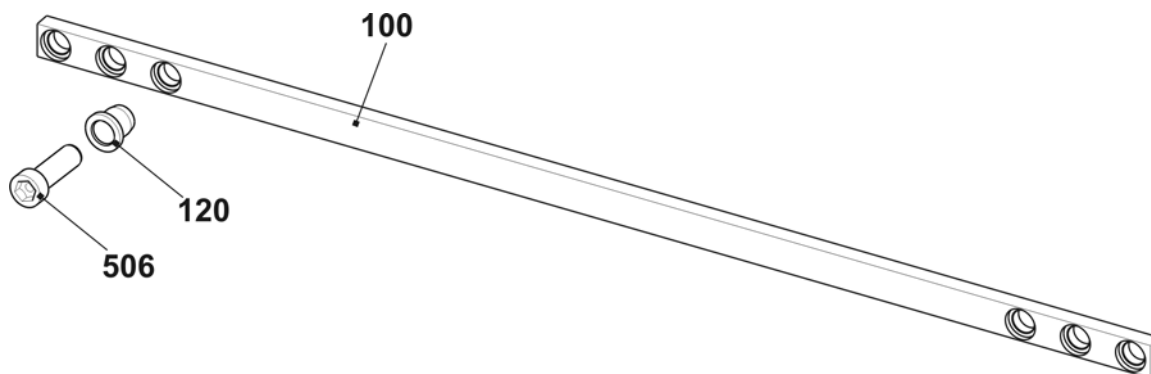
Carriage assembly

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Carriage assembly 3 cam boxes complete	241 414			
1	Carriage frame, 3 cam box	240 660	13	Fixing bolt linking spot	244 179
2	Carriage part, 3 cam box	240 695	500	Cap screw M8X30	020 143
3	Carriage cover at the top, 3 cam box	241 216	502	Countersunk screw M6x10	023 183
4	Shim	225 312	504	Circlip 6	021 022
5	Dowel screw	211 750	514	Setting pin 5x14	020 670
8	Bush	207 546	515	Threaded bushing	041 863
9	Bush	209 275	522	Shim 0.2x10x70	023 699
10	Bush	209 274	523	Shim 0.1x10x70	023 698
11	Eccentric	222 983	524	Shim 0.05x10x70	023 697



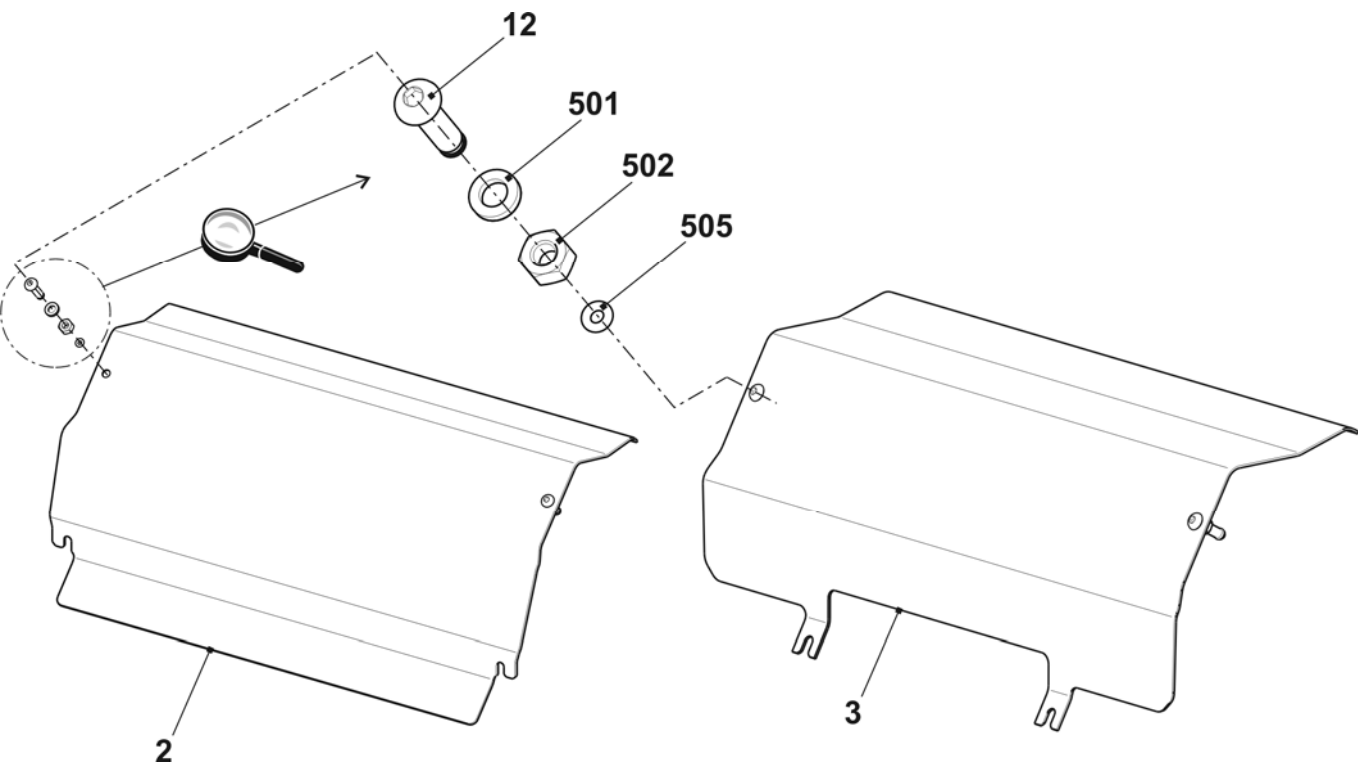
Carriage coupling

Pos	Designation	Ident No	Pos	Designation	Ident No
100	Coupling rod	225 128	506	Cap screw M16x45	023 366
120	Sleeve	225 600			



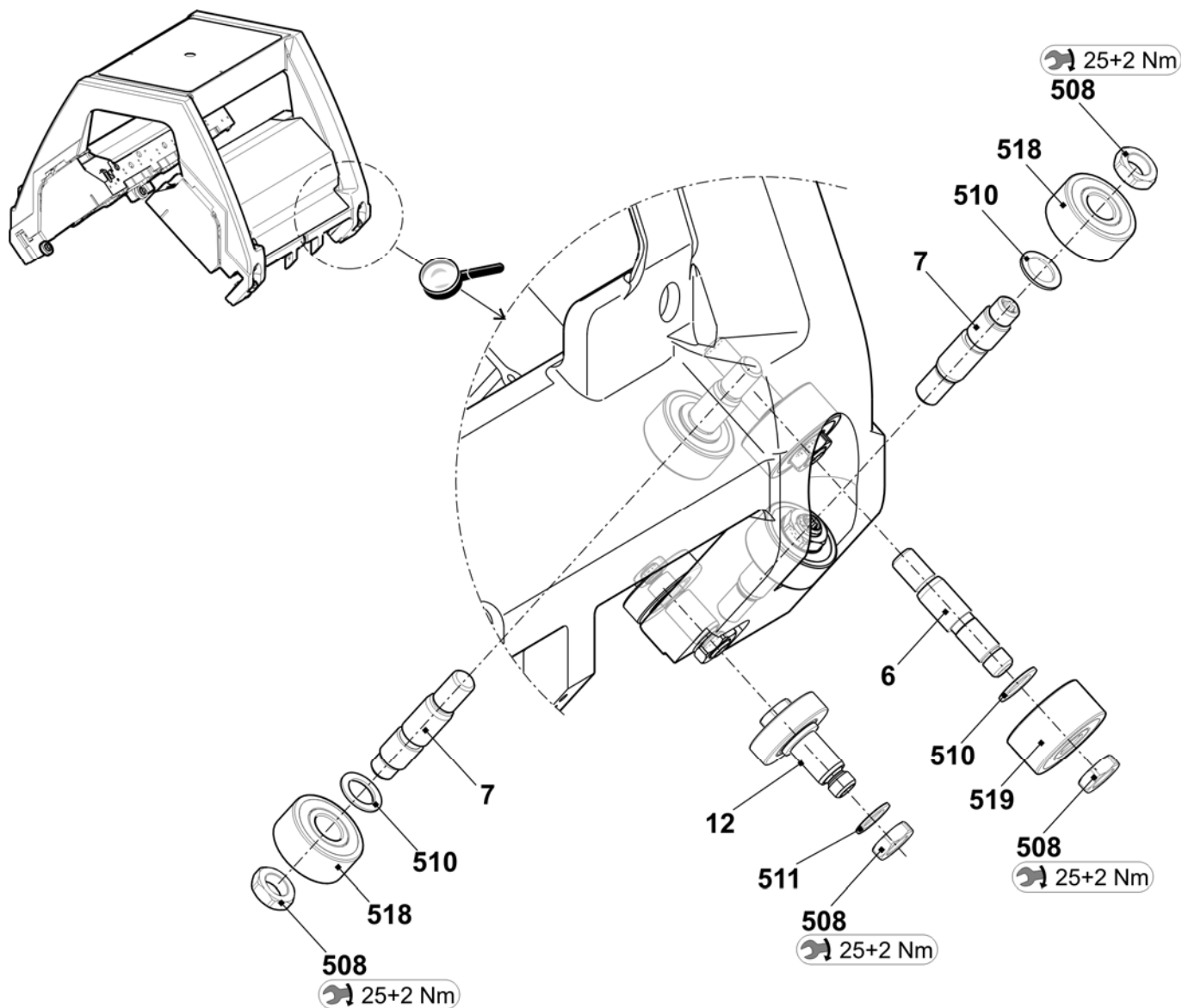
Carriage cover

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Carriage cover front 3 cam boxes	241 072	501	Serrated lock washer 6,4	022 385
3	Carriage cover rear 3 cam boxes	241 079	502	Hexagon nut M6	022 899
12	Fixing bolt	242 382	505	O-ring 3x2	242 420



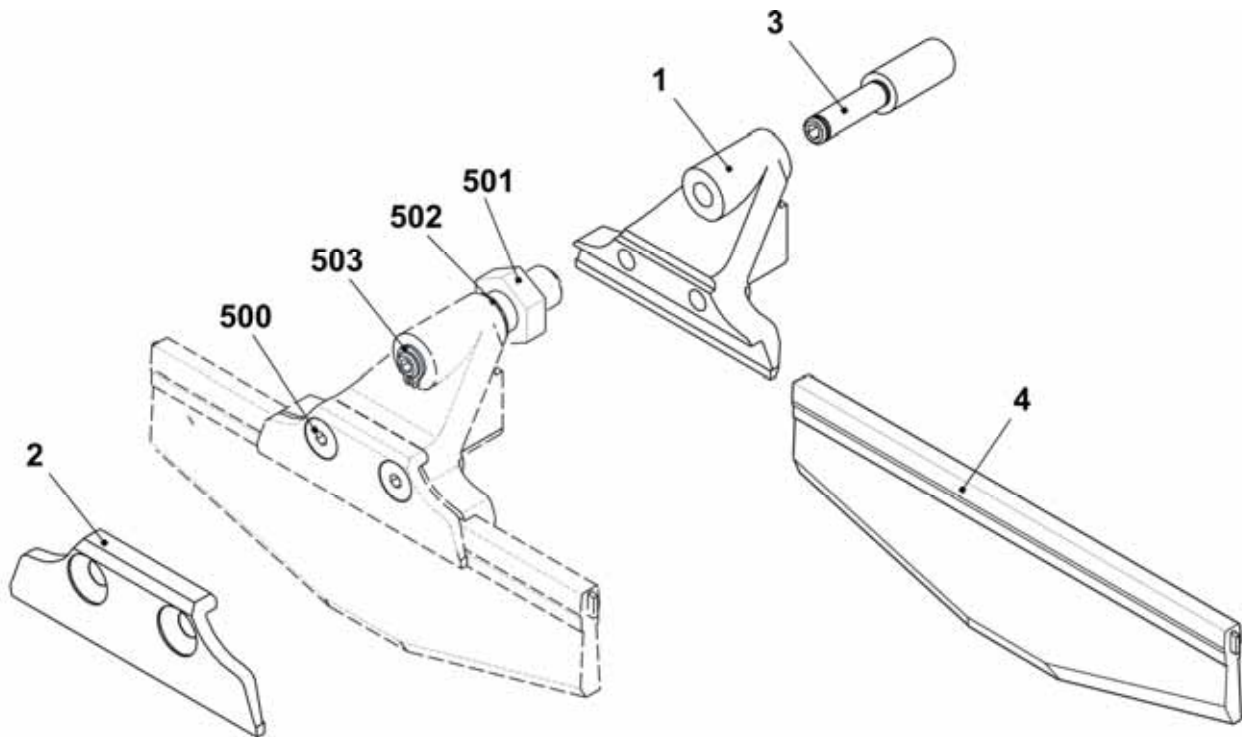
Carriage guide

Pos	Designation	Ident No	Pos	Designation	Ident No
6	Bearing bolt eccentric 0.5	242 060	510	Adjusting washer 12x18x1	023 315
7	Bearing bolt eccentric 0.5	240 624	511	Adjusting washer 10x16x1	023 260
12	Bolt pre-assembled	244 283	518	Ball bearing 62201-2RS	241 408
508	Nut M10	023 316	519	Ball bearing 62300-2RS1	242 070



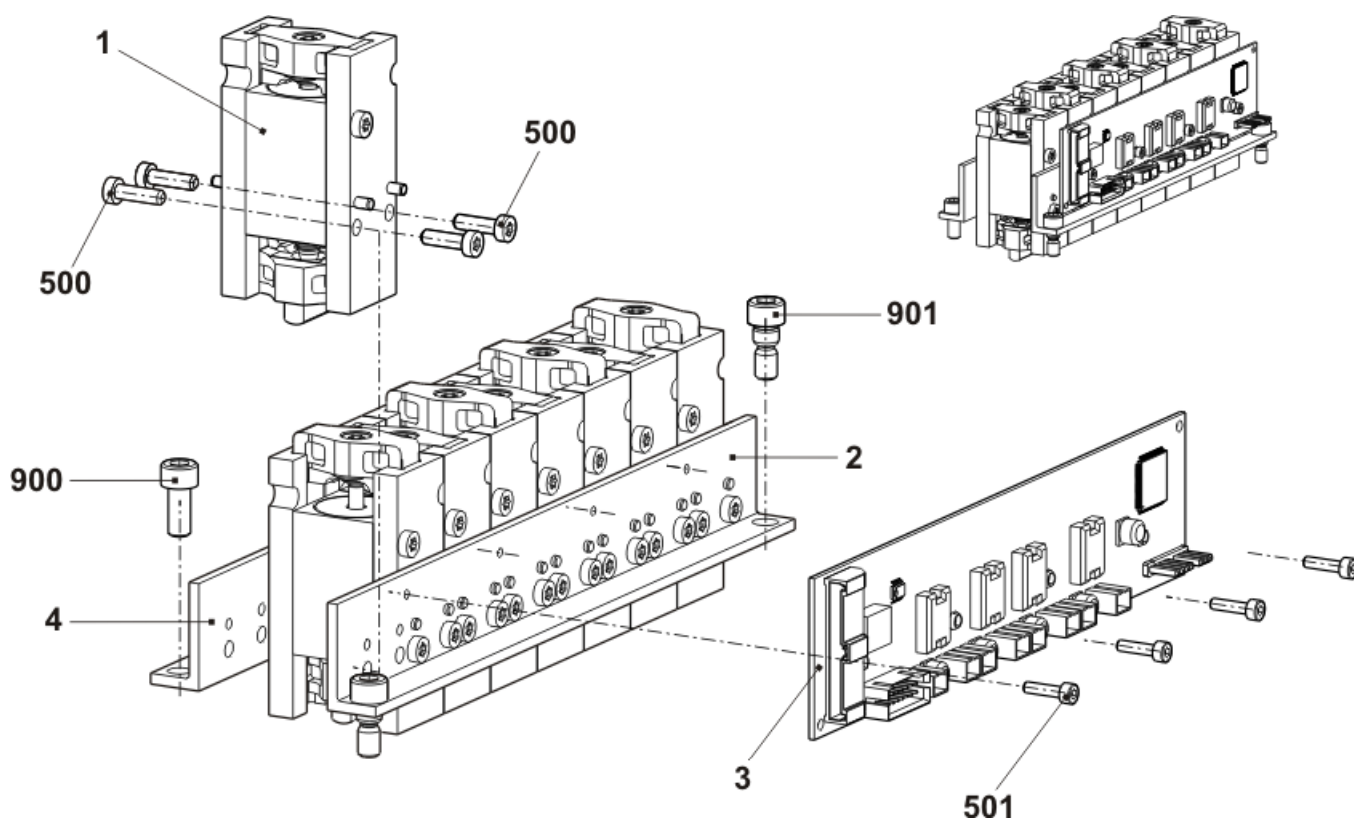
Brush holder

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Brush holder complete		4	Brush	
	E5 - E8 + E3,5.2 + E5.2 + E6.2	213 710		E5 - E8 + E3,5.2 + E5.2 + E6.2	203 254
	E5m.4 + E7m.5 + E7m.8 + E8m.7			E5m.4 + E7m.5 + E7m.8 + E8m.7	
	E10 - E14 + E7.2	213 711		E10 - E14 + E7.2	212 854
	E10m.12 + E12m.10			E10m.12 + E12m.10	
1	Brush holder	213 009	500	Countersunk head screw M4x12	023 062
2	Brush clamp	213 010	501	Hexagon nut M8x5	023 750
3	Threaded rod	209 740	502	Adjusting washer 5x10x0.5	023 348
			503	Locking ring 5x0.6	023 347



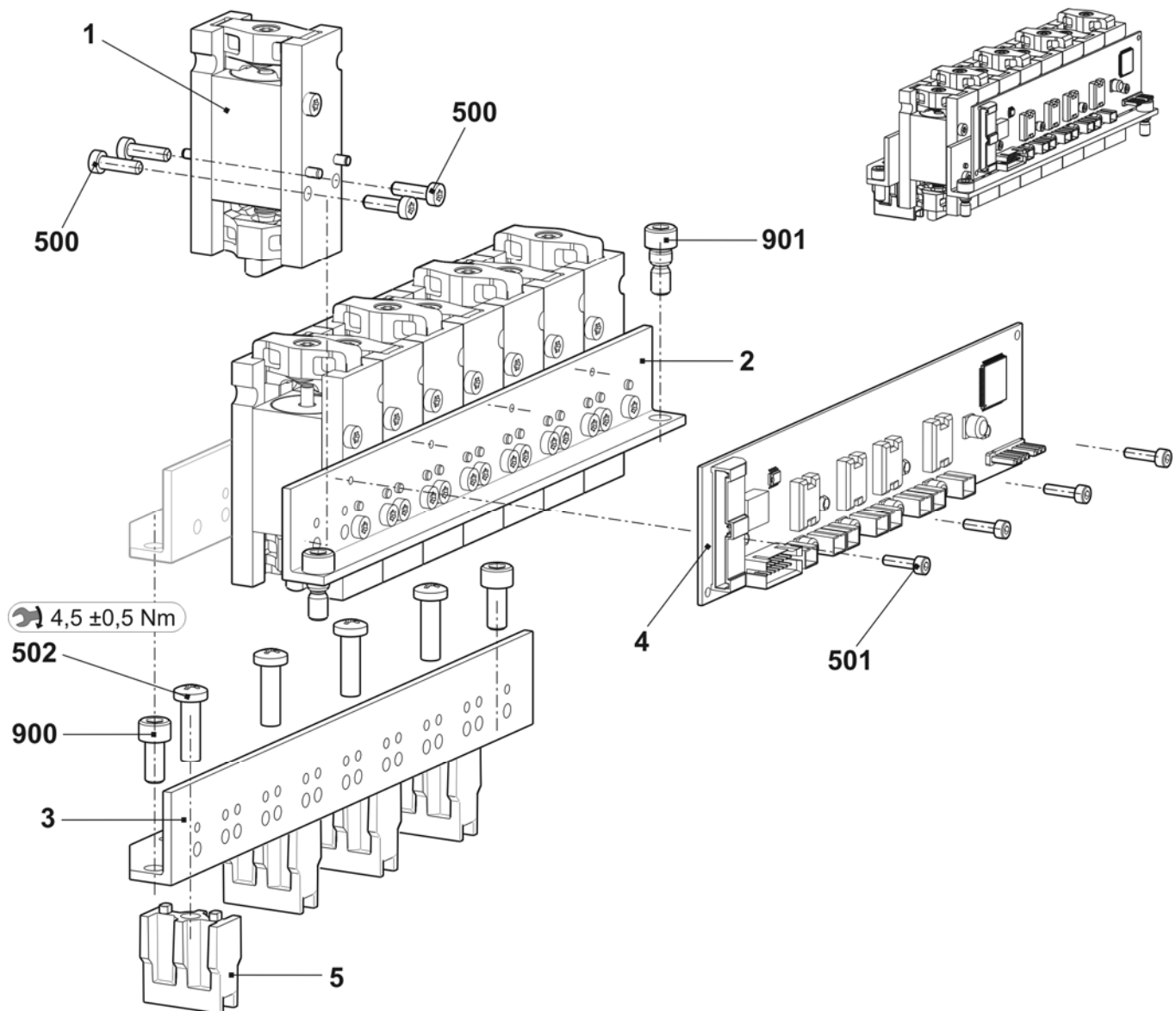
Yarn carrier driving unit without guiding part

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	YC driving unit outside complete	241 080	500	Cap screw M4x40-I-Torx	242 279
1	Yarn carrier drive box complete	242 214	501	Cap screw M3x12-12.9	022 648
2	Support angle for jack	241 038	900	Cap screw M6X14	022 658
3	Card yarn carrier amplifier OKC	300 960	901	Alignment bolt	231 899
4	Support angle for YC driving unit	242 903			



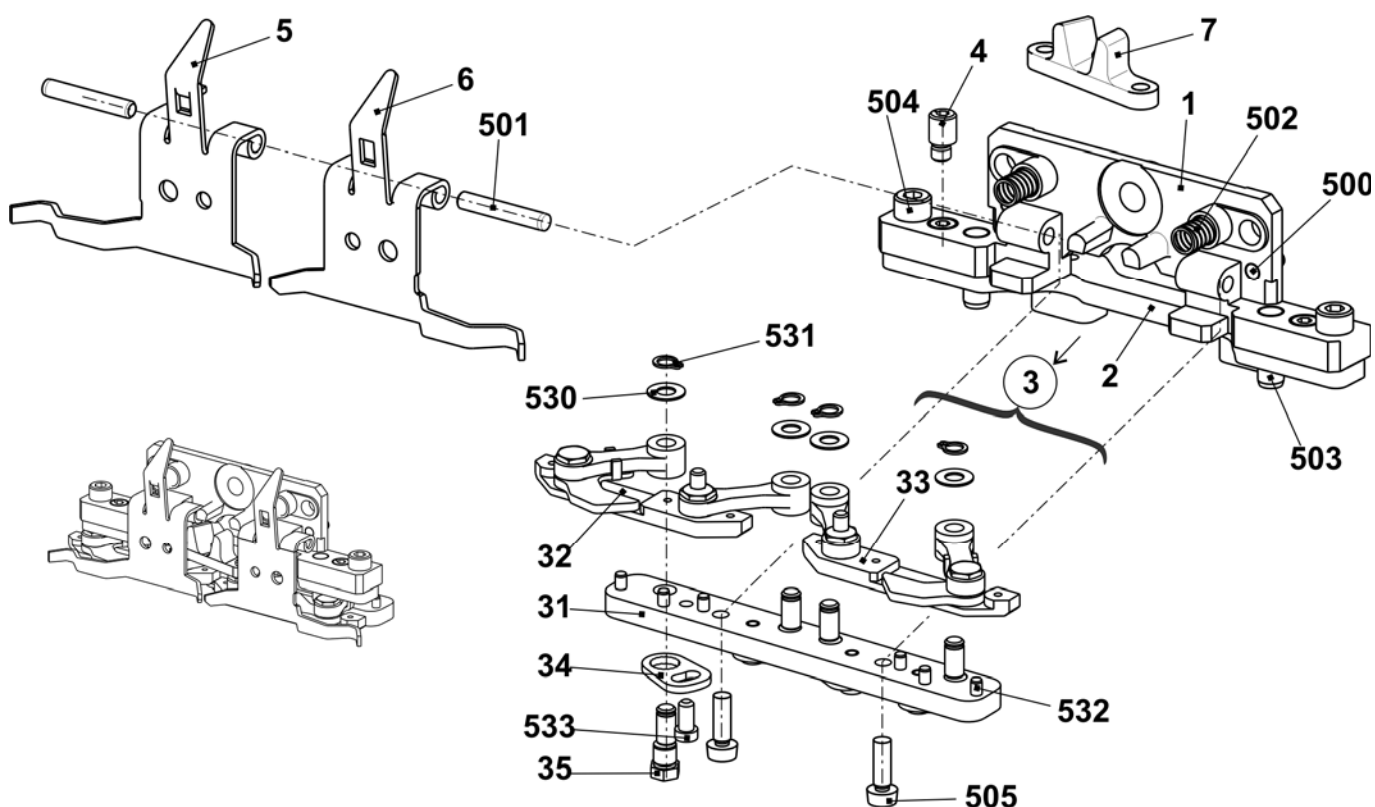
Yarn carrier driving unit with guiding part

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	YC driving unit complete in the middle	241 081	500	Cap screw M4x40-I-Torx	242 279
1	Yarn carrier drive box complete	242 214	501	Cap screw M3x12-12.9	022 648
2	Support angle for jack	241 038	502	Screw KB60X20	243 625
3	Support angle for YC driving unit	242 903	900	Cap screw M6X14	022 658
4	Card yarn carrier amplifier OKC	300 960	901	Alignment bolt	231 899
5	Guiding part	239 972			



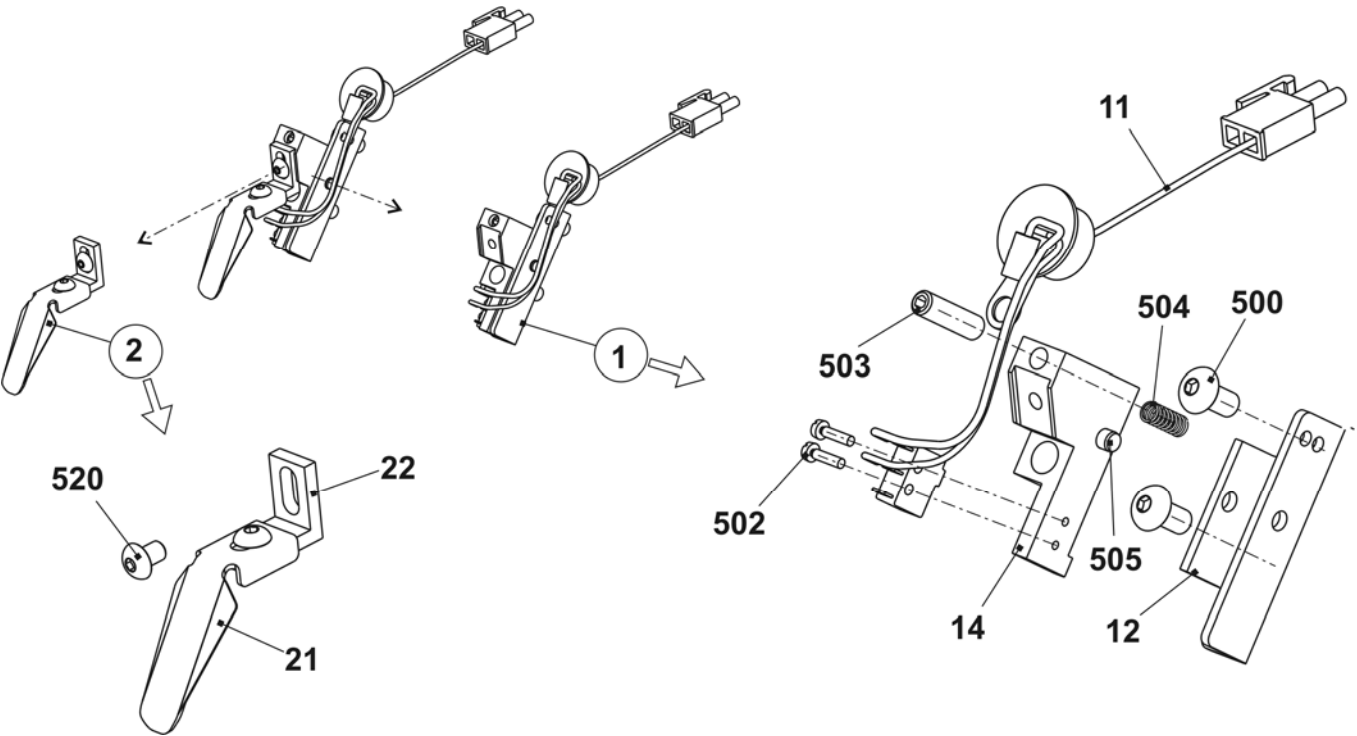
Holding-down jack control

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Holding-down jack control complete		3	Continuation of holding-down jack cam plate	
	E5 - E8 + E7m.8 + E8m.7 + E5m.4 + E7m.5 + E3,5.2 + E5.2	241 515	34	Adjustment plate	211 507
	E10 + E10m.12	241 516	35	Bolt	209 722
	E12 - E14 + E6.2 + E7.2 + E12m.10	241 517	530	Adjusting washer 5x10x0.5	023 348
1	Mounting plate	241 281	531	Locking ring 5x0.6	023 347
2	Connection plate	241 326	532	Setting pin 3x10	020 645
3	Jack cam plate complete		533	Countersunk screw M4x8	023 579
	E5 - E8 + E7m.8 + E8m.7 + E5m.4 + E7m.5 + E3,5.2 + E5.2	241 521	4	Eccentric	241 362
	E10 + E10m.12	241 522	5	Set-out plate on the right	212 382
	E12 - E14 + E6.2 + E7.2 + E12m.10	241 523	6	Set-out plate on the left	212 396
31	Holding-down cam plate	241 349	7	Drive box	210 559
32	Slider on the right complete E?		500	Setting pin 4x10	020 657
	E5 - E8 + E7m.8 + E8m.7 + E5m.4 + E7m.5 + E3,5.2 + E5.2	212 610	501	Setting pin 4x24	020 664
	E10 + E10m.12	212 943	502	Compression spring 0.68x5.10x19.00	238 702
	E12 - E14 + E6.2 + E7.2 + E12m.10	213 055	503	Dowel pin 6x18	020 678
33	Slider on the left complete		504	Cap screw M5x12	020 132
	E5 - E8 + E7m.8 + E8m.7 + E5m.4 + E7m.5 + E3,5.2 + E5.2	212 611	505	Cap screw M4x12-5.8	241 859
	E10 + E10m.12	213 053			
	E12 - E14 + E6.2 + E7.2 + E12m.10	213 056			



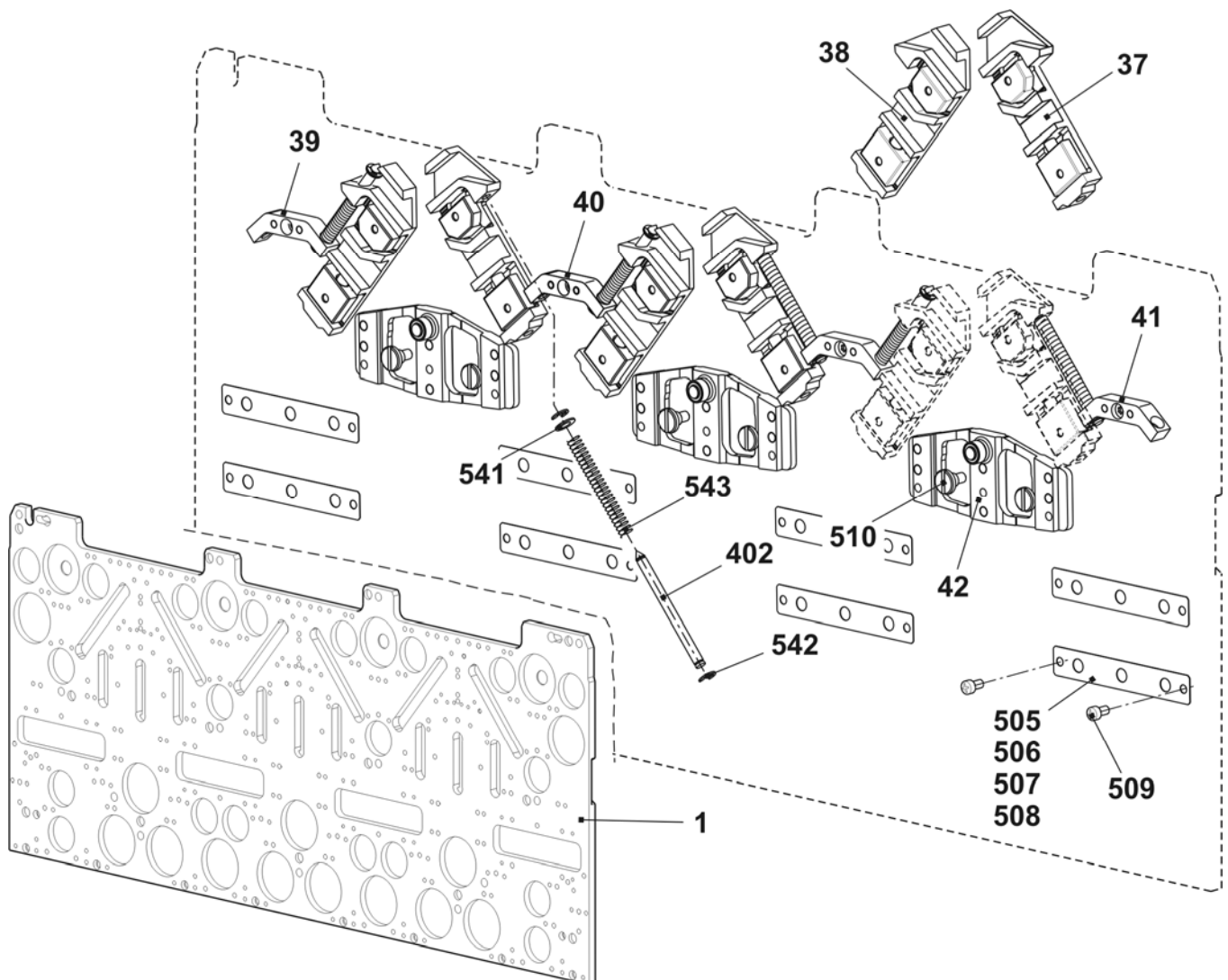
Needle detector

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Needle detector	221 238			
1	Needle detector pre-assembled	221 773	2	Sensor pre-assembled	221 758
500	Countersunk screw M4x6	023 247	21	Sensor	220 839
11	Needle detector complete	221 207	22	Angle	221 175
12	Retainer	220 464	520	Countersunk screw M4x6	023 427
14	Switch rocker	220 637			
500	Countersunk screw M5x10	023 247			
502	Cap screw M2x8	022 954			
503	Set screw M6x20-45	023 526			
504	Compression spring 4.3x0.45x10	021 398			
505	Dowel pin 4x18	023 525			



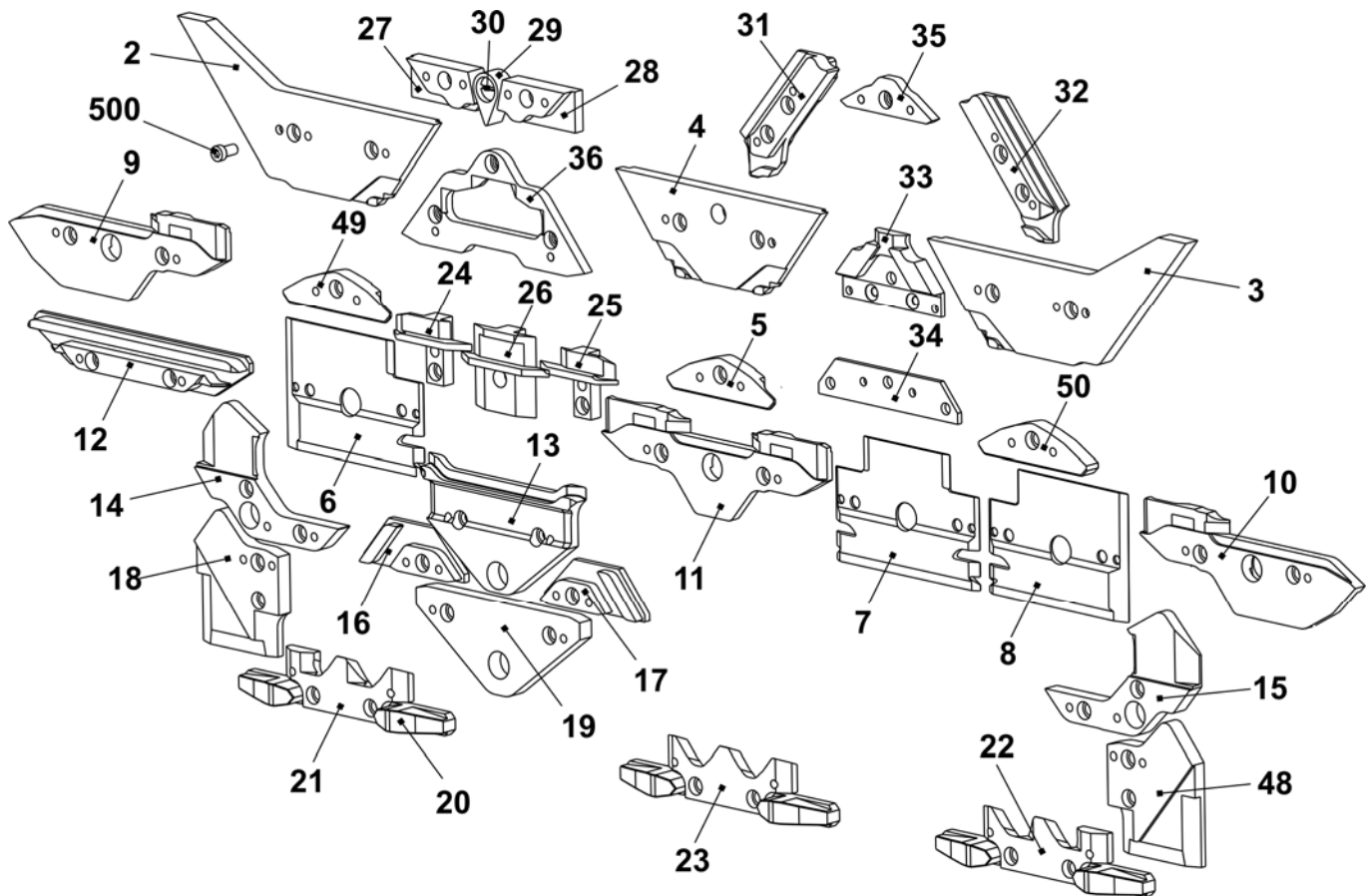
Cam box E5 + E3,5.2 + E5.2 + E5m.4 + E7m.5

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set complete E5	244 467	42	Contact piece	240 281
1	Cam plate	240 371	505	Shim 0.03x12x75	022 828
37	Stitch forming cam on the right complete E5 - E10	211 163	506	Shim 0.05x12x75	022 829
38	Stitch forming cam on the left complete E5 - E10	211 164	507	Shim 0.1x12x75	022 830
39	Rod guidance part left	211 165	508	Shim 0.2x12x75	022 831
40	Rod guidance part middle	211 166	509	Countersunk screw M3x4	023 142
41	Rod guidance part right	211 168	510	Shoulder screw	239 626
402	Spring rod	209 791	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
541	Disc 4.3x7x0.5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



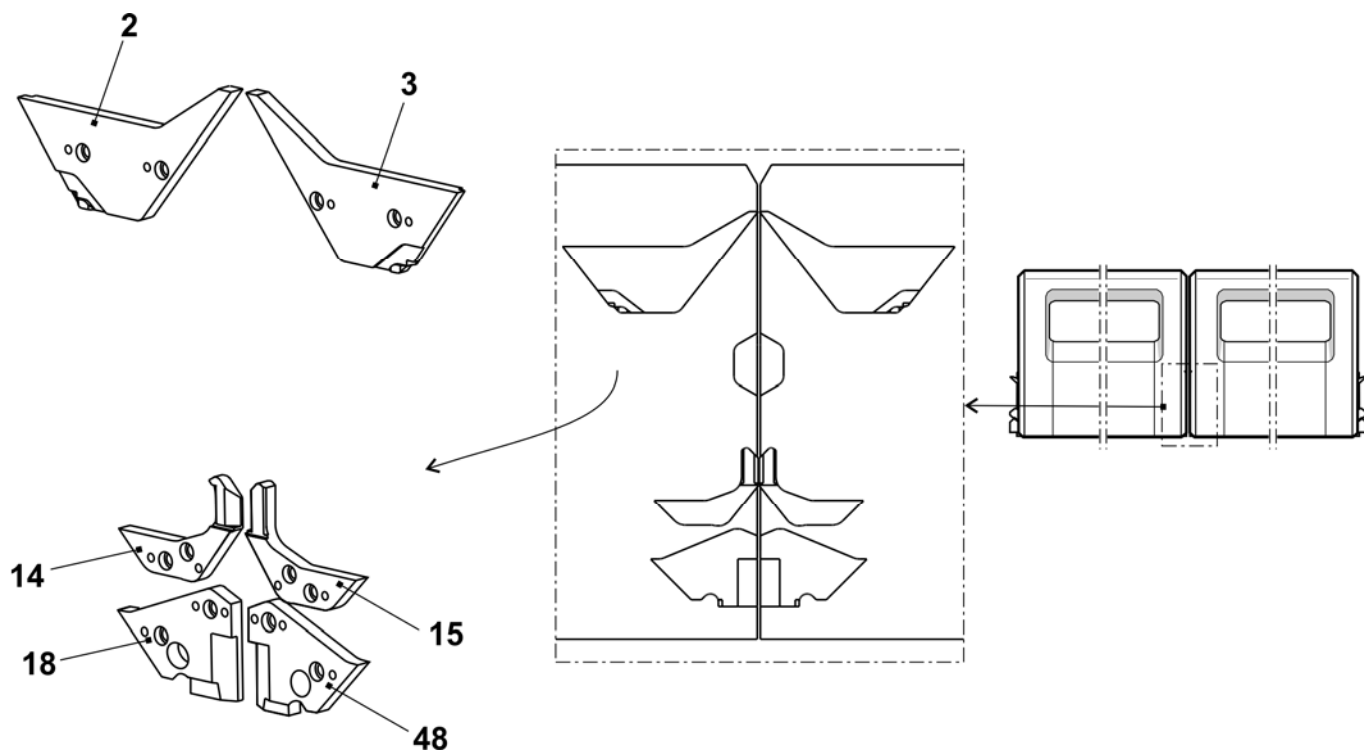
Cams E5

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	213 304	22	Selector cam on the right	212 947
3	Entry cam on the right	213 303	23	Selector cam	212 946
4	Entry cam at the top	210 285	24	Pressure cam take-over left	239 848
5	Entry cam in the middle bottom E2,5.2 + E3,5.2	235 719	25	Pressure cam take-over right	239 849
6	Plate on the left	230 988	26	Tuck pressure cam	239 621
7	Plate in the middle	231 035	27	Limit cam on the left E5	210 289
8	Plate on the right	231 036	28	Limit cam on the right E5	210 290
9	Cam on the left	231 039	29	Pointer E2,5.2 + E3,5.2	229 505
10	Cam on the right	231 041	30	Screw	210 335
11	Cam in the middle	231 040	31	Stitch cam on the left E2,5.2 + E3,5.2	235 712
12	Cam	227 923	32	Stitch cam on the right E2,5.2 + E3,5.2	235 713
13	Cam	210 254	33	Tuck limit cam E5	214 051
14	Cam on the left E5-14	212 265	34	Raising cam plate E4-12	204 372
15	Cam on the right E5-14	212 266	35	Receiving cam E5	210 386
16	Cam on the left	236 192	36	Raising cam part without split E5	213 302
17	Cam on the right	236 193		Knitting raising cam with split E5	213 294
18	Cam on the left E5-14	212 274		Accessories	
19	Cam	210 252	48	Cam on the right E5-14	212 275
20	Offering cam	210 185	49	Entry cam on the left bottom E5-8	235 718
21	Selector cam on the left	212 944	50	Entry cam on the right at the bottom E5-8	235 720
			500	Cap screw M4x8	020 091



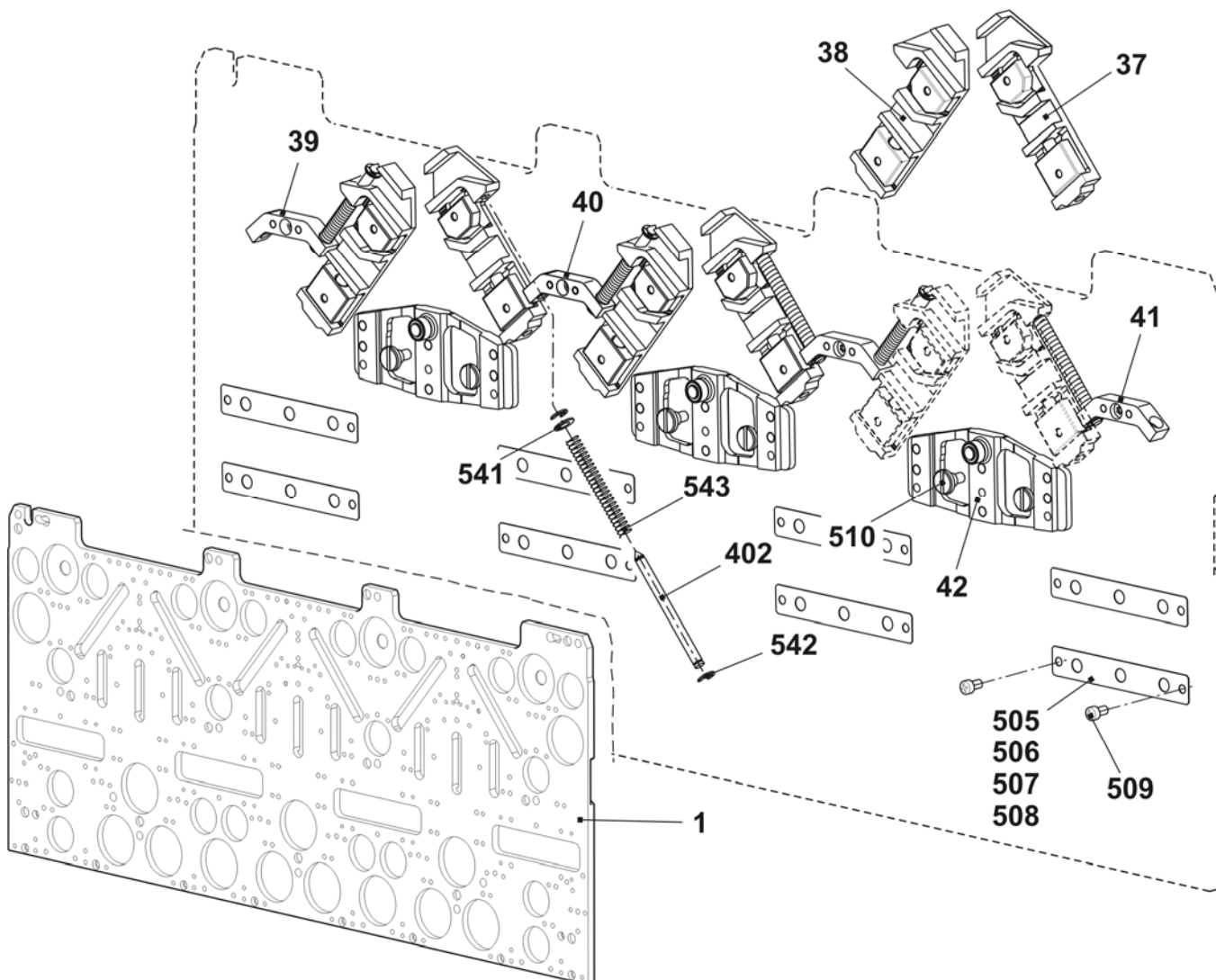
Cams for narrow coupling E5 + E7-8 + E5m.4 + 7m.5 + E7m.8 + E8m.7

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the right E5-14	216 220	3	Entry cam on the left E5-14	216 221
14	Cam on the right E5-14	216 168	15	Cam on the left E5-14	216 167
18	Cam on the right	216 166	48	Cam on the left	216 165



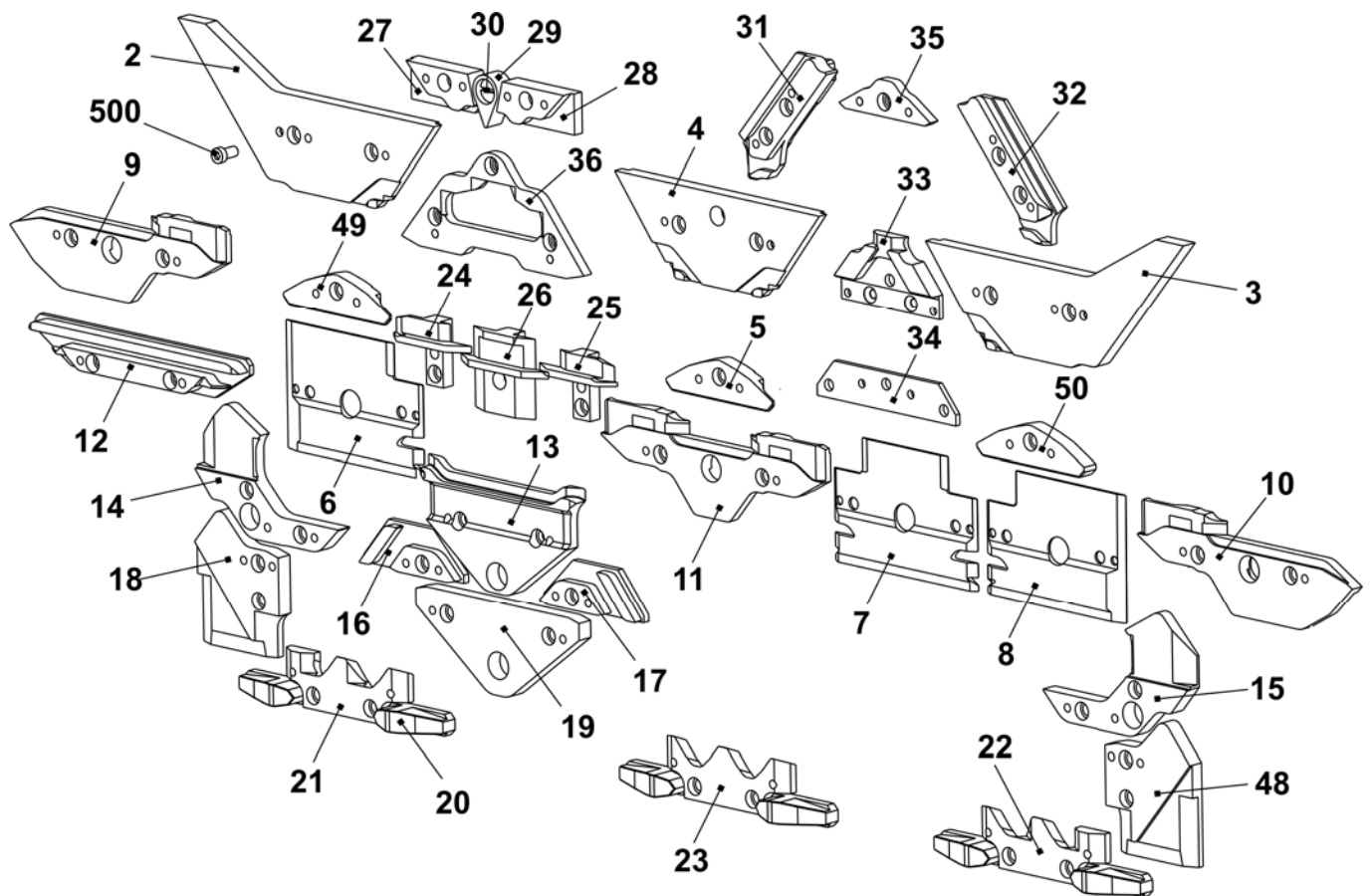
Cam box E7 + E8 + E7m.8 + E8m.7

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set complete E7 - E8	243 883	42	Contact piece	240 281
1	Cam plate	240 371	505	Shim 0.03x12x75	022 828
37	Stitch forming cam on the right complete E5-10	211 163	506	Shim 0.05x12x75	022 829
38	Stitch forming cam on the left complete E5-10	211 164	507	Shim 0.1x12x75	022 830
39	Rod guidance part left	211 165	508	Shim 0.2x12x75	022 831
40	Rod guidance part middle	211 166	509	Countersunk screw M3x4	023 142
41	Rod guidance part right	211 168	510	Shoulder screw	239 626
402	Spring rod	209 791	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
541	Disc 4.3x7x0.5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



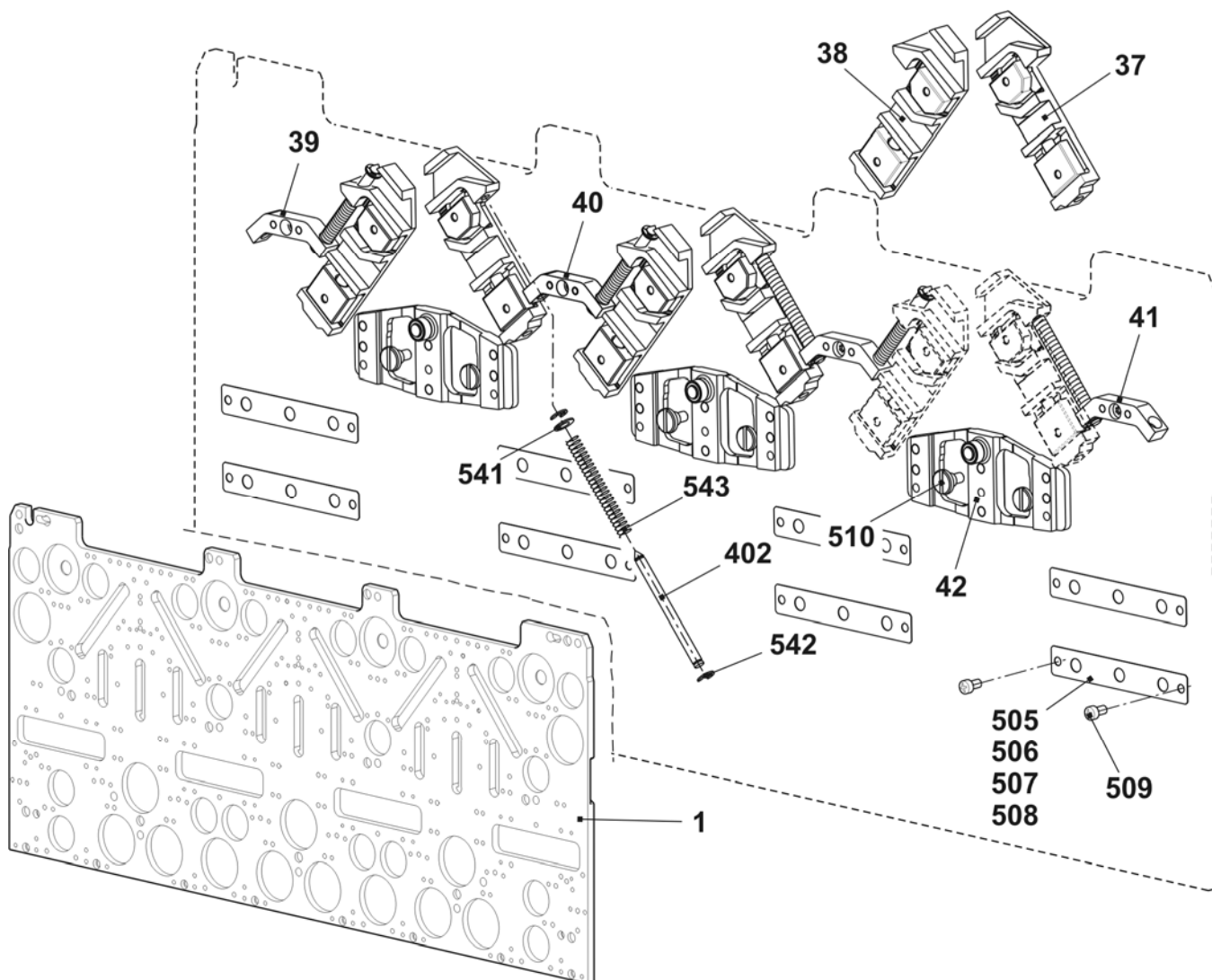
Cams E7 – E8

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	213 304	23	Selector cam	212 946
3	Entry cam on the right	213 303	24	Pressure cam take-over left	239 848
4	Entry cam at the top	210 285	25	Pressure cam take-over right	239 849
5	Entry cam at the bottom E5-8	212 395	26	Tuck pressure cam	239 621
6	Plate on the left	230 988	27	Limit cam on the left E7-8	210 291
7	Plate in the middle	231 035	28	Limit cam on the right E7-8	210 292
8	Plate on the right	231 036	29	Pointer E5-8	210 336
9	Cam on the left	231 039	30	Screw	210 335
10	Cam on the right	231 041	31	Stitch cam on the left E7-8	210 324
11	Cam in the middle	231 040	32	Stitch cam on the right E7-8	210 323
12	Cam	227 923	33	Tuck limit cam E7-8	214 052
13	Cam	210 254	34	Raising cam plate E4-12	204 372
14	Cam on the left E5-14	212 265	35	Receiving cam E7-8	210 339
15	Cam on the right E5-14	212 266	36	Raising cam part without split E7-8	213 297
16	Cam on the left	236 192		Raising cam part for split E7-8	213 301
17	Cam on the right	236 193		Accessory	
18	Cam on the left E5-14	212 274	48	Cam on the right E5-14	212 275
19	Cam	210 252	49	Entry cam on the left E5-8	213 161
20	Offering cam	210 185	50	Entry cam on the right E5-8	213 162
21	Selector cam on the left	212 944	500	Cap screw M4x8	020 091
22	Selector cam on the right	212 947			



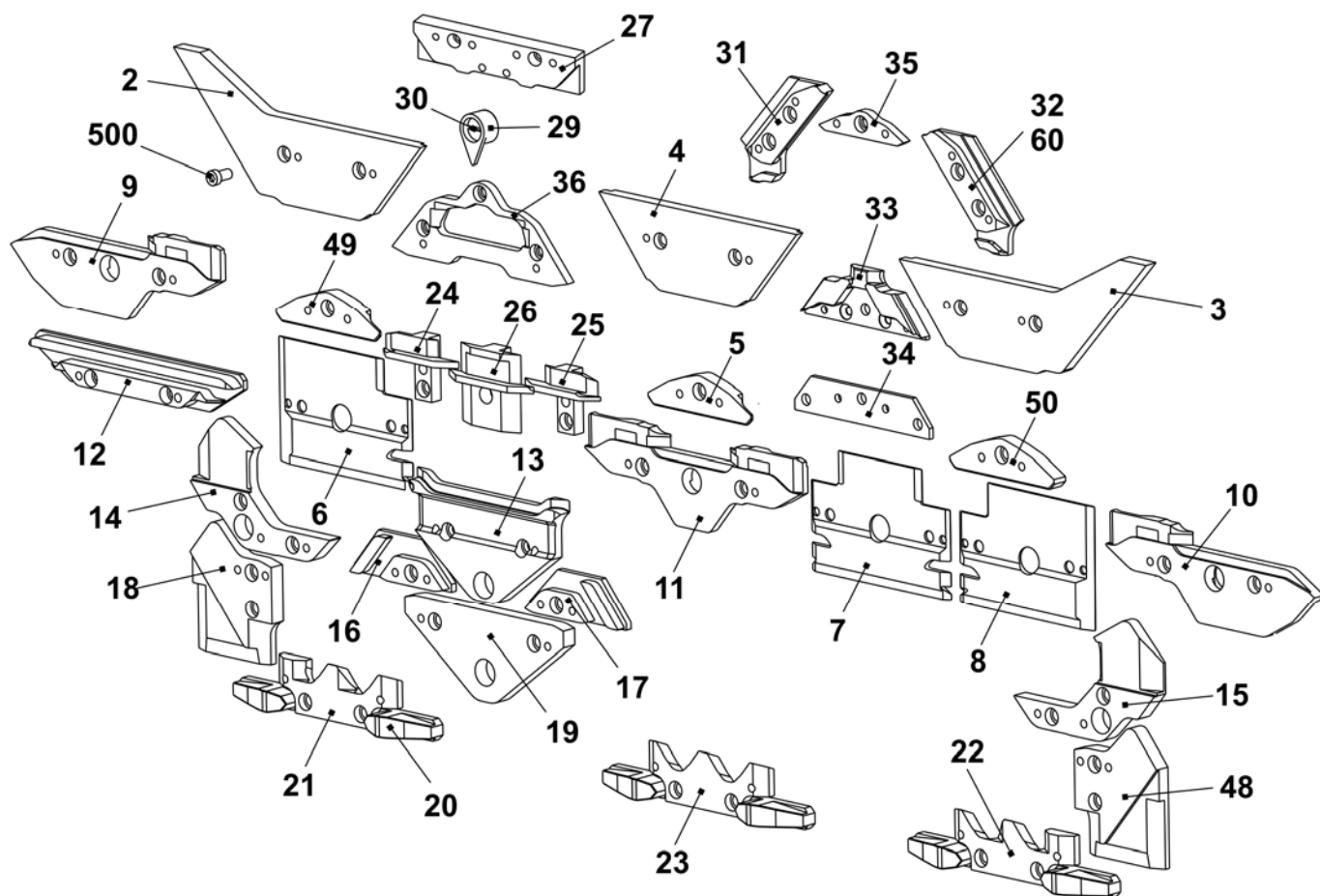
Cam box E10

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set at the left complete E10	244 742	Σ	Cam box set at the right complete E10	244 743
1	Cam plate	240 371	42	Contact piece	240 281
37	Stitch forming cam on the right complete E5-10	211 163	505	Shim 0.03x12x75	022 828
38	Stitch forming cam on the left complete E5-10	211 164	506	Shim 0.05x12x75	022 829
39	Rod guidance part left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guidance part middle	211 166	508	Shim 0.2x12x75	022 831
41	Rod guidance part right	211 168	509	Countersunk screw M3x4	023 142
402	Spring rod	209 791	510	Shoulder screw	239 626
541	Disc 4.3x7x0.5	022 153	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
542	Circlip 3.2	021 019			
543	Spring	023 344			



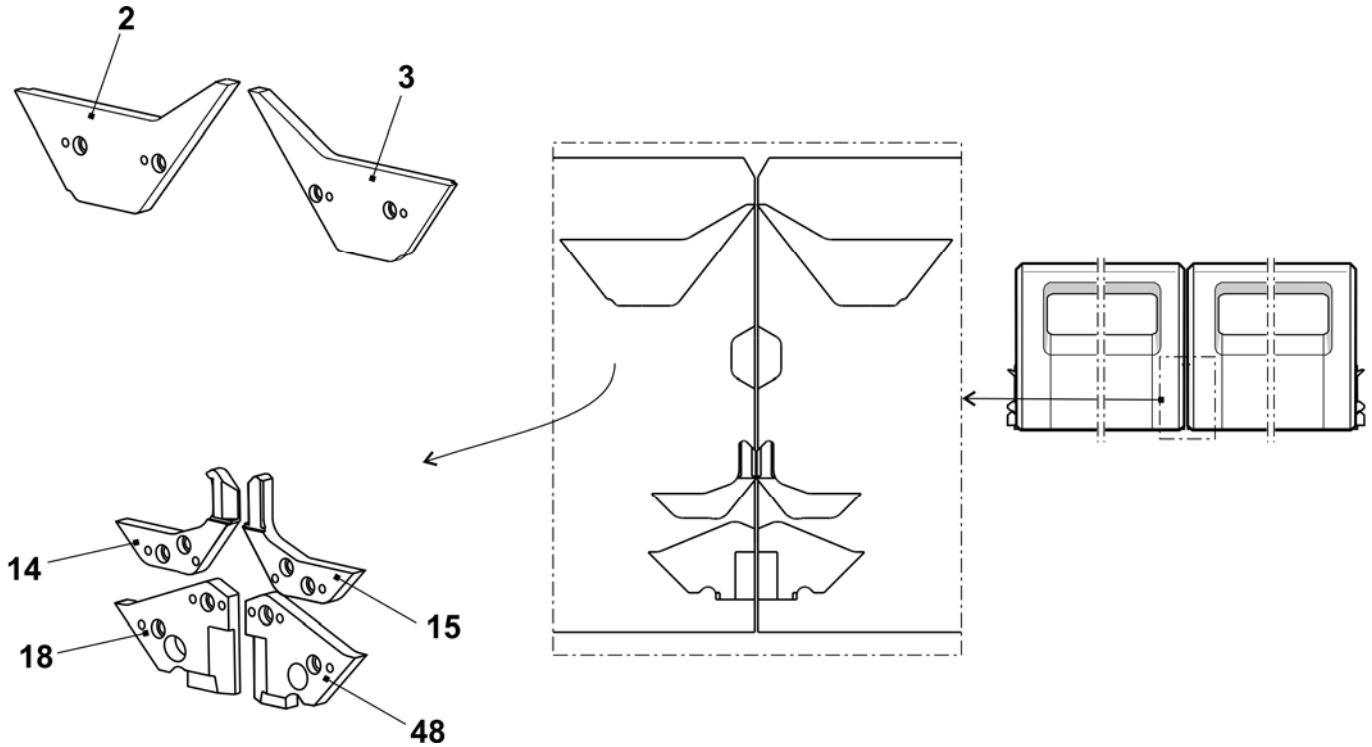
Cams E10

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	243 595	23	Selector cam	212 946
3	Entry cam on the right	243 597	24	Pressure cam take-over left	239 848
4	Entry cam at the top	243 596	25	Pressure cam take-over right	239 849
5	Entry cam bottom -1.5 E10 - E14	216 328	26	Tuck pressure cam	239 621
6	Plate on the left	230 988	27	Limit cam E10	210 611
7	Plate in the middle	231 035	29	Pointer E10 – E14	210 349
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E10 -E14 + E7.2	236 318
10	Cam on the right	231 041	32	Stitch cam on the right E10 -E14 + E7.2 (at the front)	236 319
11	Cam in the middle	231 040	33	Tuck limit cam E10 + E7.2	236 345
12	Cam	227 923	34	Raising cam plate E4-12	204 372
13	Cam	210 254	35	Receiving cam E10 - E12	210 595
14	Cam on the left E5-14	212 265	36	Raising cam part without split E10 – E12 + E7.2	237 993
15	Cam on the right E5-14	212 266		Raising cam part for split E10 – E12 + E7.2 Accessory	213 300
16	Cam on the left	236 192	48	Cam on the right E5-14	212 275
17	Cam on the right	236 193	49	Entry cam on the left -1.5 E10 - E14	216 329
18	Cam on the left E5-14	212 274	50	Entry cam on the right -1.5 E10 - E14	216 330
19	Cam	210 252	500	Cap screw M4x8	020 091
20	Offering cam	210 185	60	Stitch cam on the right at the rear E10 - E12	236 320
21	Selector cam on the left	212 944			
22	Selector cam on the right	212 947			



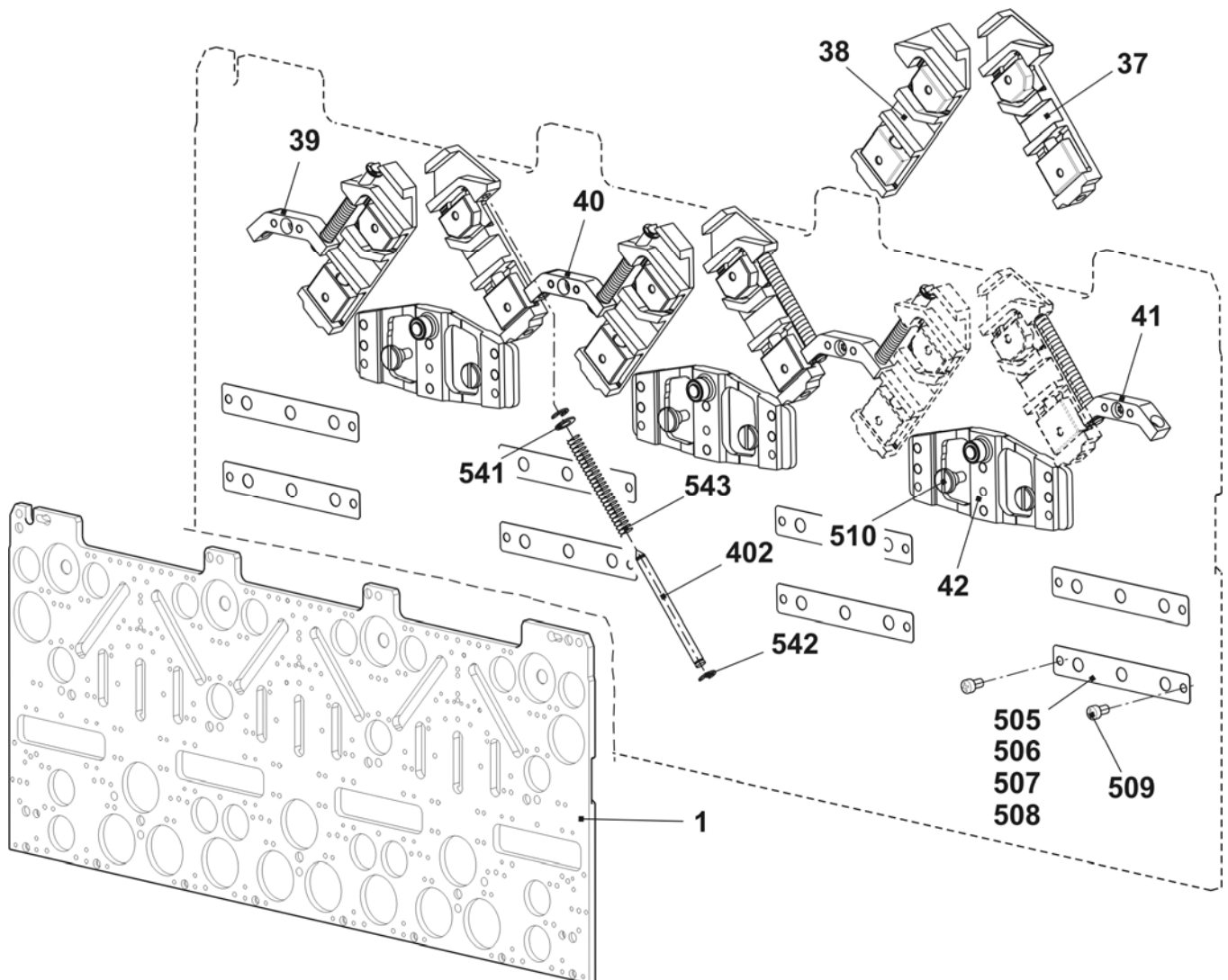
Cams for narrow coupling E10-14 + E10m.12 + E12m.10 + E6.2 + E7.2

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the right	243 858	3	Entry cam on the left	243 857
14	Cam on the right E5-14	216 168	15	Cam on the left E5-14	216 167
18	Cam on the right	216 166	48	Cam on the left	216 165



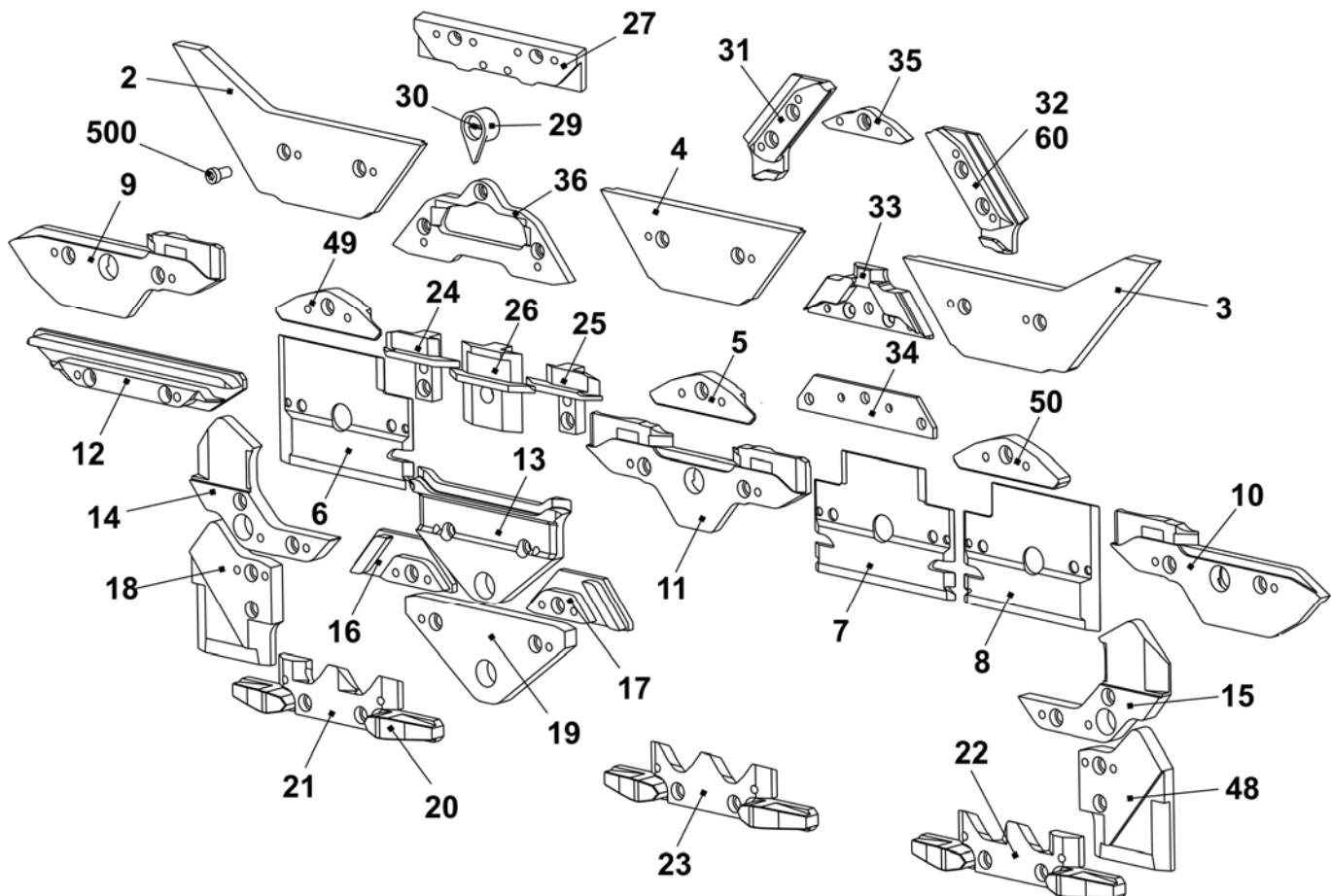
Cam box E12

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set at the left complete E12	243 906	Σ	Cam box set at the right complete E12	243 907
1	Cam plate	240 371	42	Contact piece	240 281
37	Stitch forming cam on the right complete E12 – E14	214 088	505	Shim 0.03x12x75	022 828
38	Stitch forming cam on the left complete E12 – E14	214 089	506	Shim 0.05x12x75	022 829
39	Rod guidance part left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guidance part middle	211 166	508	Shim 0.2x12x75	022 831
41	Rod guidance part right	211 168	509	Countersunk screw M3x4	023 142
402	Spring rod	209 791	510	Shoulder screw	239 626
541	Disc 4.3x7x0.5	022 153	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
542	Circlip 3.2	021 019			
543	Spring	023 344			



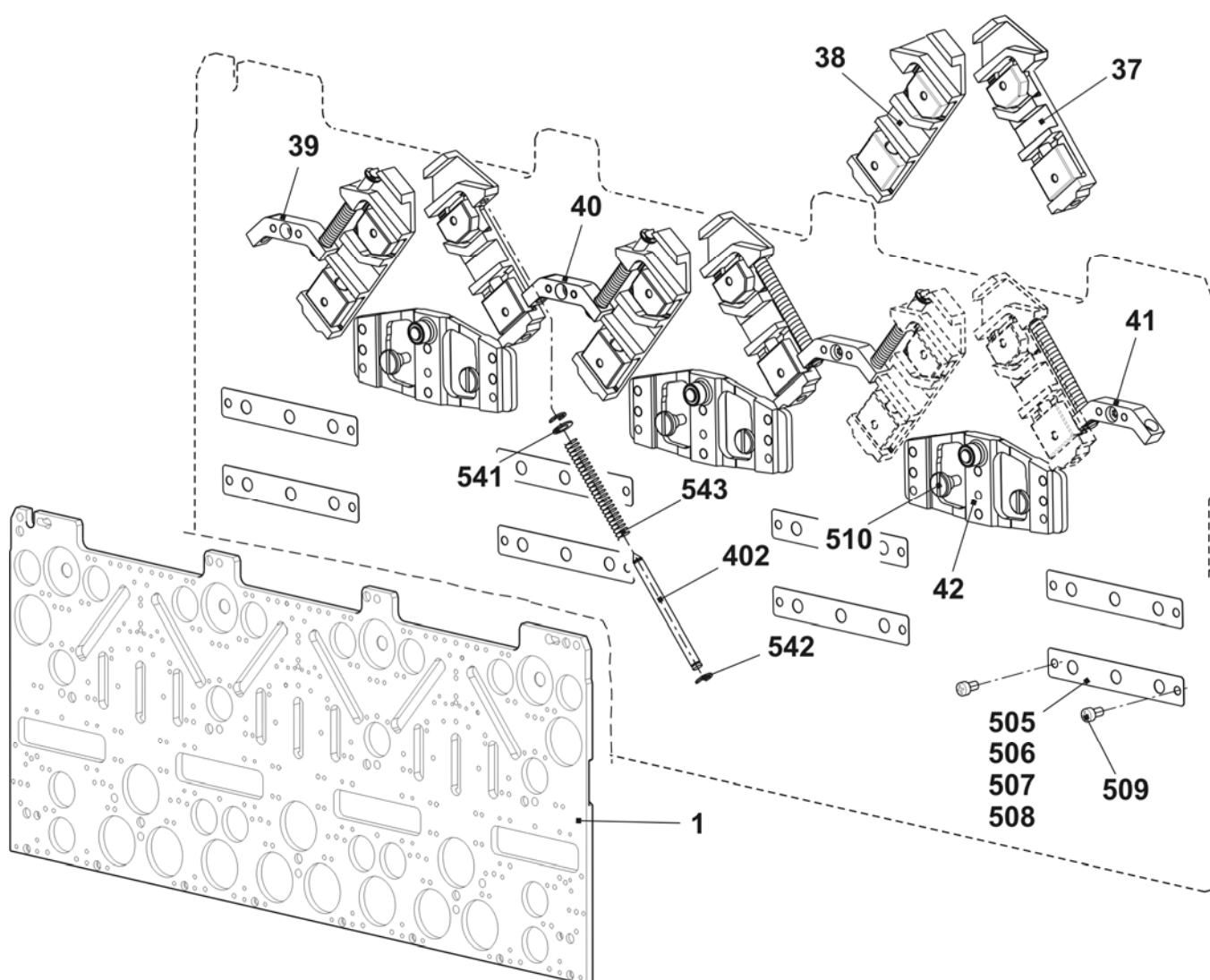
Cams E12

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	243 595	23	Selector cam	212 946
3	Entry cam on the right	243 597	24	Pressure cam take-over left	239 848
4	Entry cam at the top	243 596	25	Pressure cam take-over right	239 849
5	Entry cam bottom -1.5 E10 - E14	216 328	26	Tuck pressure cam	239 621
6	Plate on the left	230 988	27	Limit cam E12 – E14	210 612
7	Plate in the middle	231 035	29	Pointer E10 – E14	210 349
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E10 -E14 + E7.2	236 318
10	Cam on the right	231 041	32	Stitch cam on the right E10 -E14 + E7.2	236 319
11	Cam in the middle	231 040	33	Tuck limit cam E12	236 403
12	Cam	227 923	34	Raising cam plate E4-12	204 372
13	Cam	210 254	35	Receiving cam E10 - E12	210 595
14	Cam on the left E5-14	212 265	36	Raising cam part without split E10 – E12 + E7.2	237 993
15	Cam on the right E5-14	212 266		Raising cam part for split E10 – E12 + E7.2 Accessory	213 300
16	Cam on the left	236 192	48	Cam on the right E5-14	212 275
17	Cam on the right	236 193	49	Entry cam on the left -1.5 E10 - E14	216 329
18	Cam on the left E5-14	212 274	50	Entry cam on the right -1.5 E10 - E14	216 330
19	Cam	210 252	500	Cap screw M4x8	020 091
20	Offering cam	210 185	60	Stitch cam on the right at the rear E10 - E12	236 320
21	Selector cam on the left	212 944			
22	Selector cam on the right	212 947			



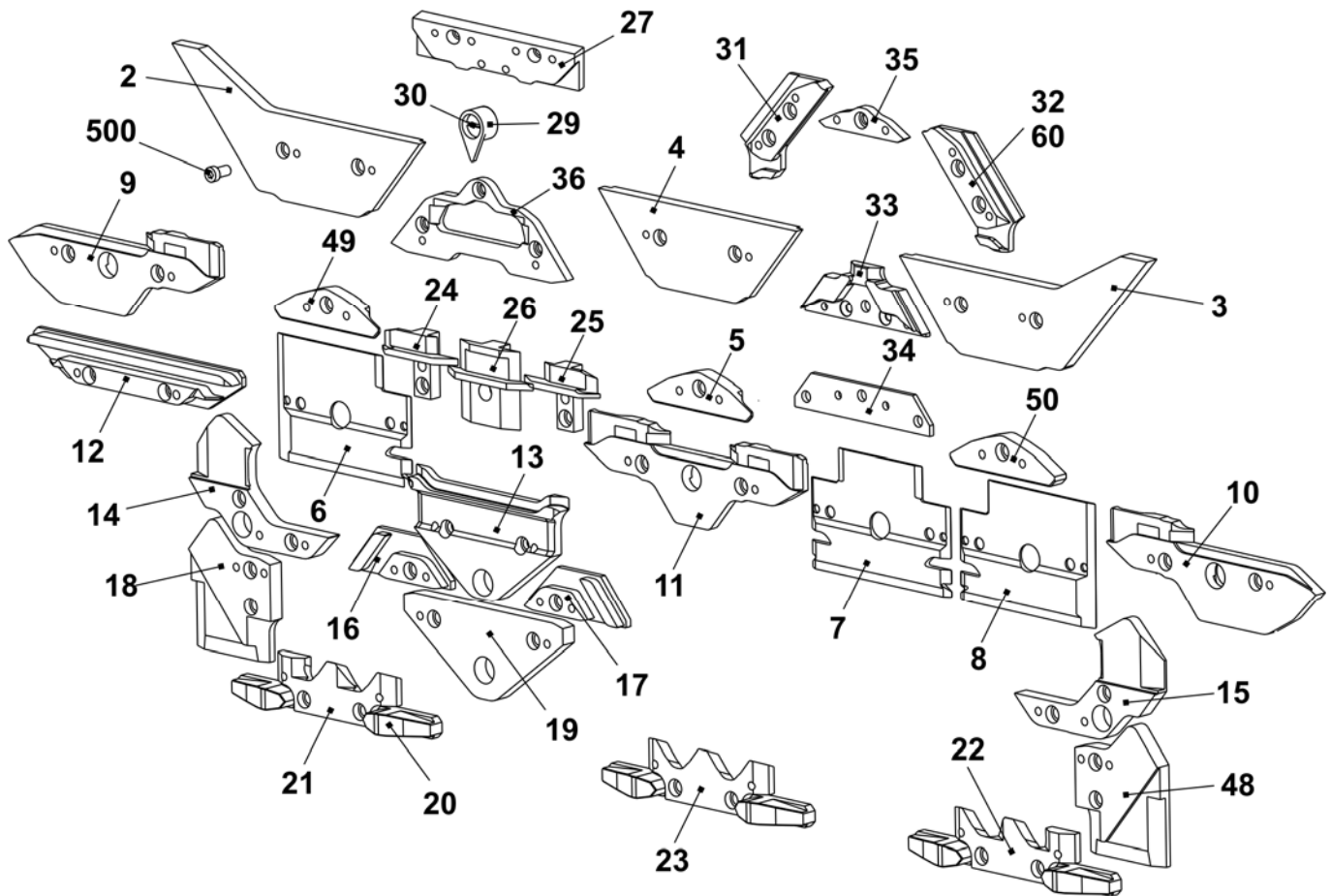
Cam box E14

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set complete E14	242 962	42	Contact piece	240 281
1	Cam plate	240 371	505	Shim 0.03x12x75	022 828
37	Stitch forming cam on the right complete E12 – E14	214 088	506	Shim 0.05x12x75	022 829
38	Stitch forming cam on the left complete E12 – E14	214 089	507	Shim 0.1x12x75	022 830
39	Rod guidance part left	211 165	508	Shim 0.2x12x75	022 831
40	Rod guidance part middle	211 166	509	Countersunk screw M3x4	023 142
41	Rod guidance part right	211 168	510	Shoulder screw	239 626
402	Spring rod	209 791	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
541	Disc 4.3x7x0.5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



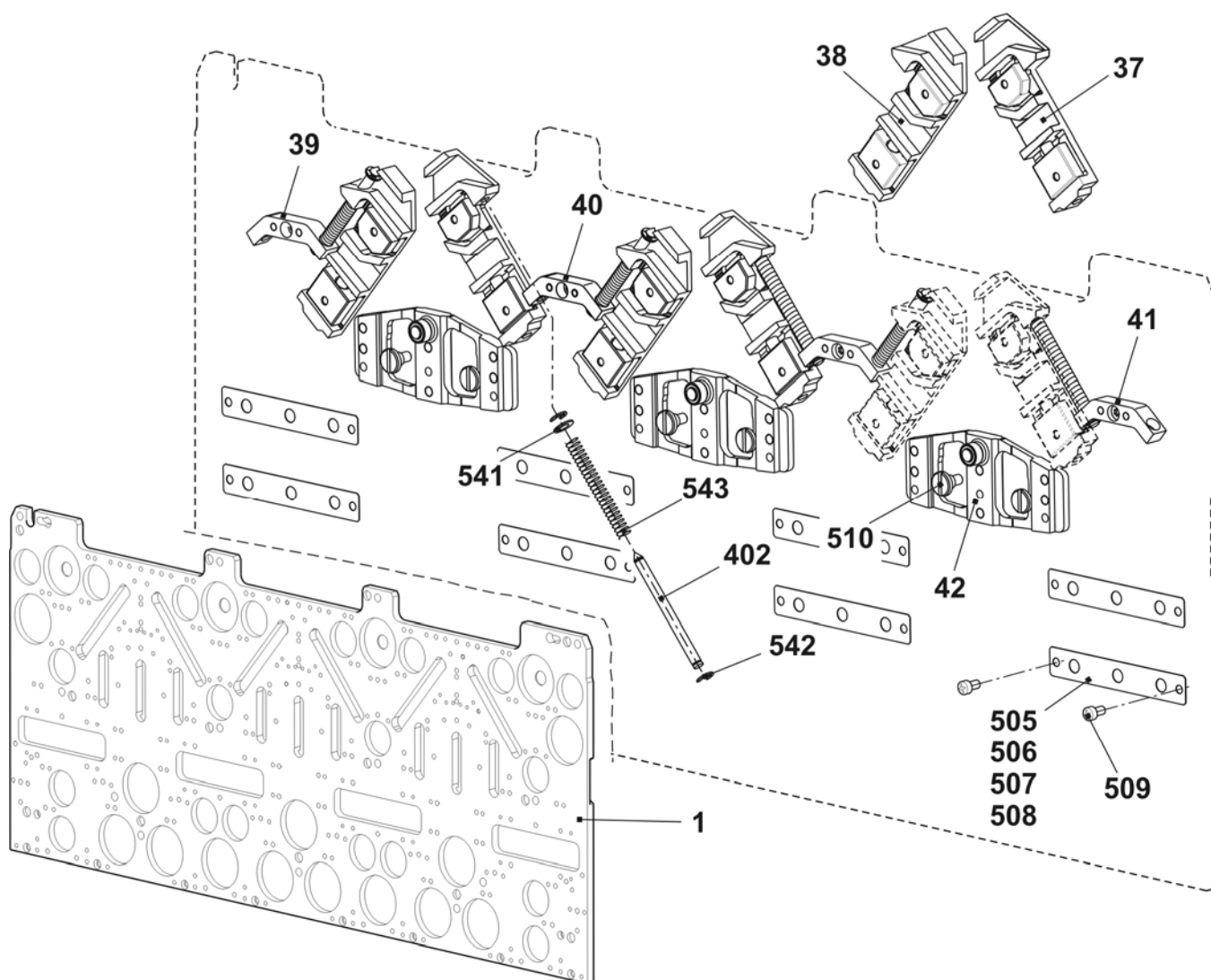
Cams E14

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	243 595	23	Selector cam	212 946
3	Entry cam on the right	243 597	24	Pressure cam take-over left	239 848
4	Entry cam at the top	243 596	25	Pressure cam take-over right	239 849
5	Entry cam bottom -1.5 E10 - E14	216 328	26	Tuck pressure cam	239 621
6	Plate on the left	230 988	27	Limit cam E12 – E14	210 612
7	Plate in the middle	231 035	29	Pointer E10 – E14	210 349
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E10 -E14 + E7.2	236 318
10	Cam on the right	231 041	32	Stitch cam on the right E10 -E14 + E7.2	236 319
11	Cam in the middle	231 040	33	Tuck limit cam E14	236 428
12	Cam	227 923	34	Raising cam plate E4-12	204 372
13	Cam	210 254	35	Receiving cam E14	236 944
14	Cam on the left E5-14	212 265	36	Raising cam part without split E14	236 767
15	Cam on the right E5-14	212 266		Raising cam part for split E14	214 212
16	Cam on the left	236 192		Accessory	
17	Cam on the right	236 193	48	Cam on the right E5-14	212 275
18	Cam on the left E5-14	212 274	49	Entry cam on the left -1.5 E10 - E14	216 329
19	Cam	210 252	50	Entry cam on the right -1.5 E10 - E14	216 330
20	Offering cam	210 185	500	Cap screw M4x8	020 091
21	Selector cam on the left	212 944			
22	Selector cam on the right	212 947			



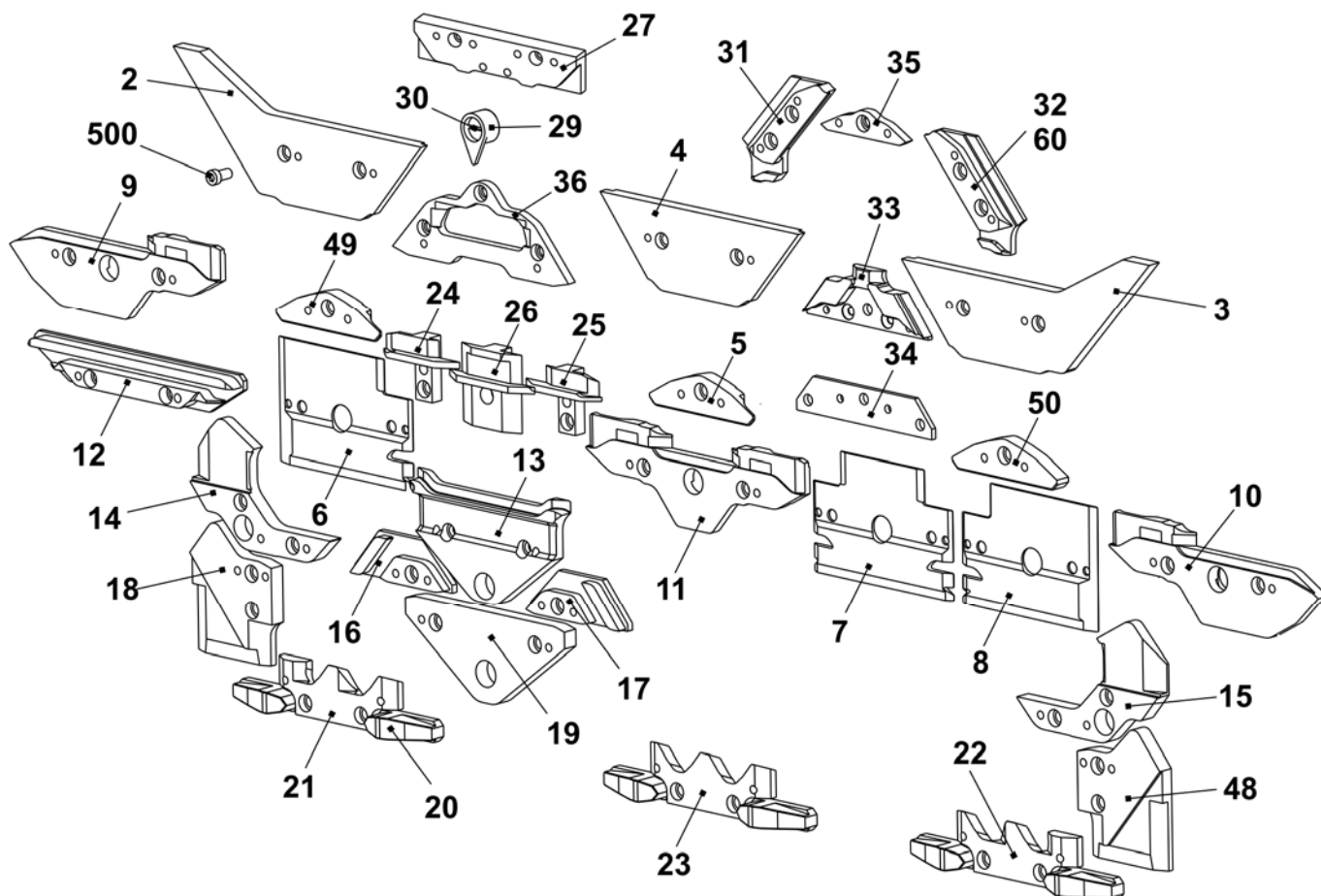
Cam box E10m.12

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set at the left complete E10m.12	244 750	Σ	Cam box set at the right complete E10m.12	244 751
1	Cam plate	240 371	42	Contact piece	240 281
37	Stitch forming cam on the right complete E5-10	211 163	505	Shim 0.03x12x75	022 828
38	Stitch forming cam on the left complete E5-10	211 164	506	Shim 0.05x12x75	022 829
39	Rod guidance part left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guidance part middle	211 166	508	Shim 0.2x12x75	022 831
41	Rod guidance part right	211 168	509	Countersunk screw M3x4	023 142
402	Spring rod	209 791	510	Shoulder screw	239 626
541	Disc 4.3x7x0.5	022 153	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
542	Circlip 3.2	021 019			
543	Spring	023 344			



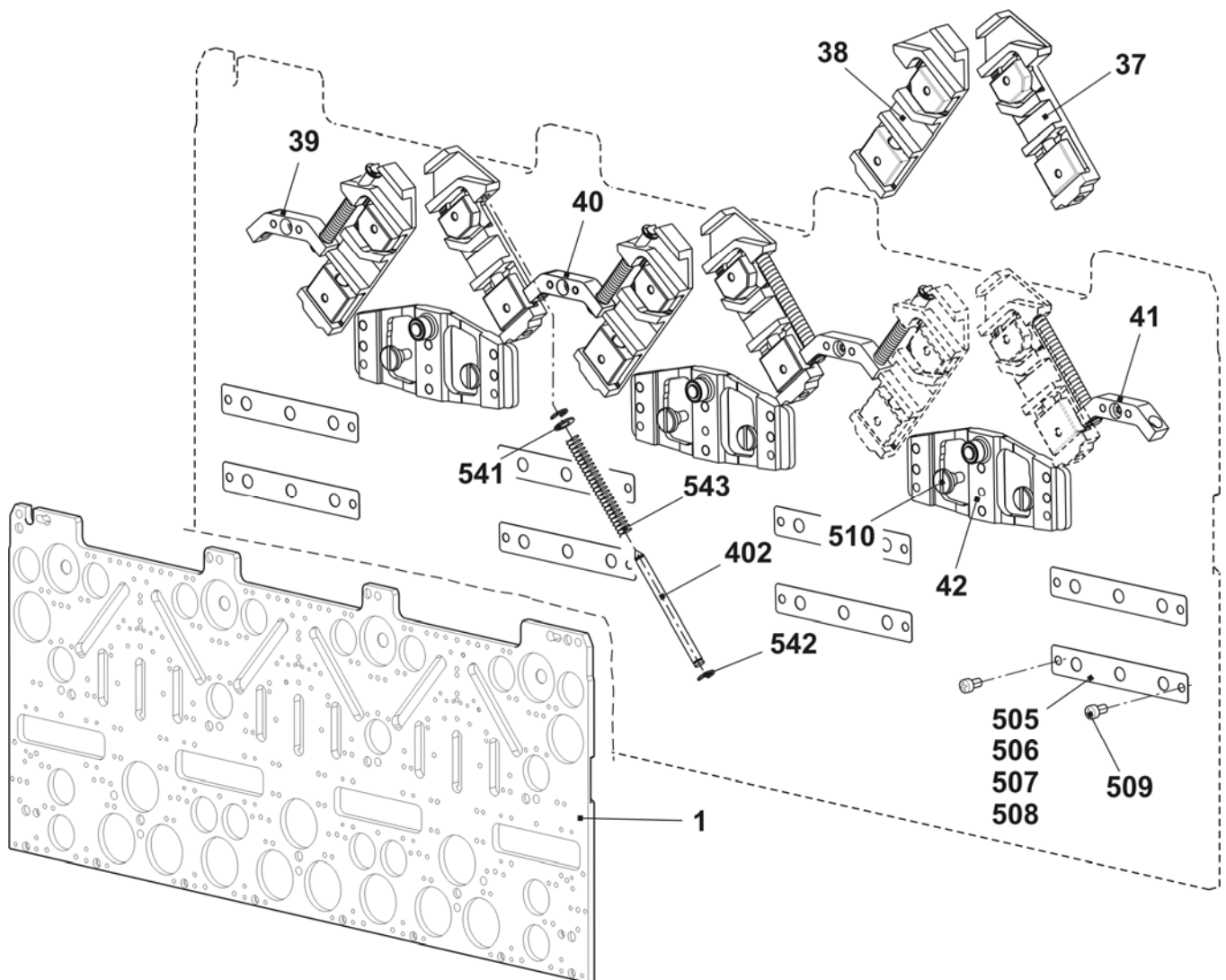
Cams E10m.12

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	243 595	23	Selector cam	212 946
3	Entry cam on the right	243 597	24	Pressure cam take-over left	239 848
4	Entry cam at the top	243 596	25	Pressure cam take-over right	239 849
5	Entry cam bottom -1.5 E10 - E14	216 328	26	Tuck pressure cam	239 621
6	Plate on the left	230 988	27	Limit cam E12 – E14	210 612
7	Plate in the middle	231 035	29	Pointer E10 – E14	210 349
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E10 -E14 + E7.2	236 318
10	Cam on the right	231 041	32	Stitch cam on the right E10 -E14 + E7.2	236 319
11	Cam in the middle	231 040	33	Tuck limit cam E12	236 403
12	Cam	227 923	34	Raising cam plate E4-12	204 372
13	Cam	210 254	35	Receiving cam E10 - E12	210 595
14	Cam on the left E5-14	212 265	36	Raising cam part without split E10 – E12 + E7.2	237 993
15	Cam on the right E5-14	212 266		Raising cam part for split E10 – E12 + E7.2 Accessory	213 300
16	Cam on the left	236 192	48	Cam on the right E5-14	212 275
17	Cam on the right	236 193	49	Entry cam on the left -1.5 E10 - E14	216 329
18	Cam on the left E5-14	212 274	50	Entry cam on the right -1.5 E10 - E14	216 330
19	Cam	210 252	500	Cap screw M4x8	020 091
20	Offering cam	210 185	60	Stitch cam on the right at the rear E10 - E12	236 320
21	Selector cam on the left	212 944			
22	Selector cam on the right	212 947			



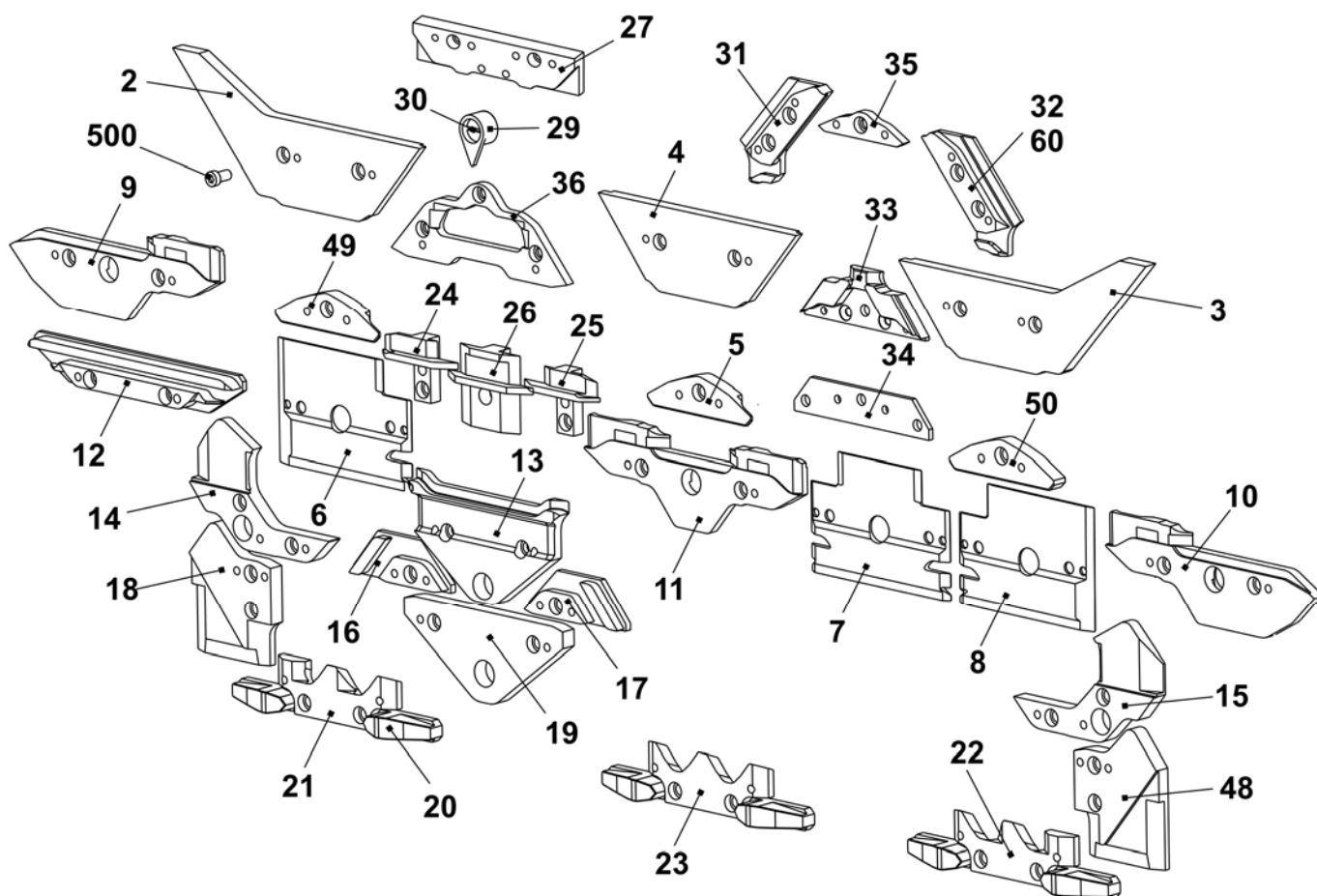
Cam box E12m.10

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set at the left complete E12m.10	244 752	Σ	Cam box set at the right complete E12m.10	244 753
1	Cam plate	240 371	42	Contact piece	240 281
37	Stitch forming cam on the right complete E12 – E14	214 088	505	Shim 0.03x12x75	022 828
38	Stitch forming cam on the left complete E12 – E14	214 089	506	Shim 0.05x12x75	022 829
39	Rod guidance part left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guidance part middle	211 166	508	Shim 0.2x12x75	022 831
41	Rod guidance part right	211 168	509	Countersunk screw M3x4	023 142
402	Spring rod	209 791	510	Shoulder screw	239 626
541	Disc 4.3x7x0.5	022 153	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
542	Circlip 3.2	021 019			
543	Spring	023 344			



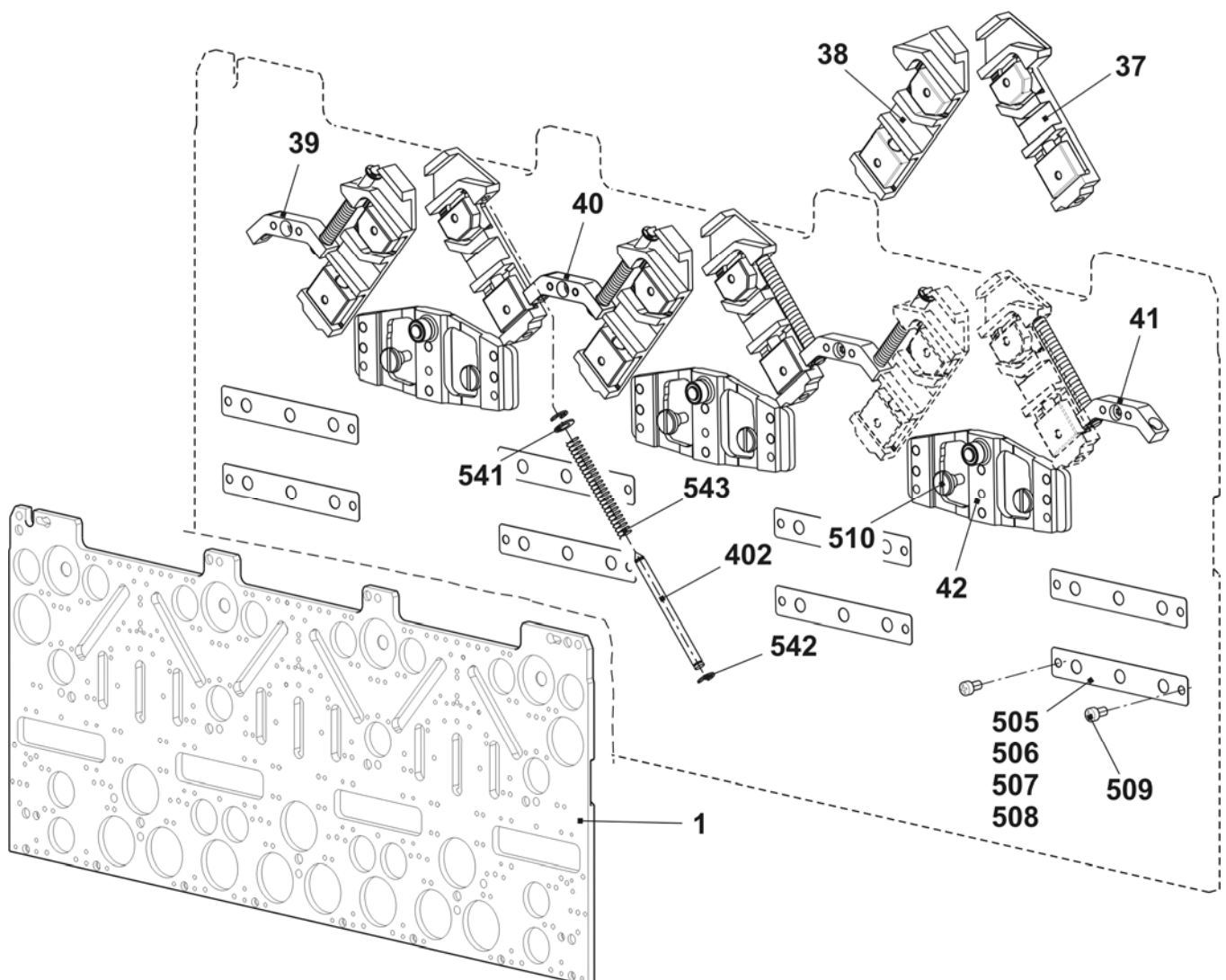
Cam parts E12m.10

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	243 595	23	Selector cam	212 946
3	Entry cam on the right	243 597	24	Pressure cam take-over left	239 848
4	Entry cam at the top	243 596	25	Pressure cam take-over right	239 849
5	Entry cam bottom -1.5 E10 - E14	216 328	26	Tuck pressure cam	239 621
6	Plate on the left	230 988	27	Limit cam E10	210 611
7	Plate in the middle	231 035	29	Pointer E10 – E14	210 349
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E10 -E14 + E7.2	236 318
10	Cam on the right	231 041	32	Stitch cam on the right E10 -E14 + E7.2	236 319
11	Cam in the middle	231 040	33	Tuck limit cam E10 + E7.2	236 345
12	Cam	227 923	34	Raising cam plate E4-12	204 372
13	Cam	210 254	35	Receiving cam E10 - E12	210 595
14	Cam on the left E5-14	212 265	36	Raising cam part without split E10 – E12 + E7.2	237 993
15	Cam on the right E5-14	212 266		Raising cam part for split E10 – E12 + E7.2 Accessory	237 300
16	Cam on the left	236 192	48	Cam on the right E5-14	212 275
17	Cam on the right	236 193	49	Entry cam on the left -1.5 E10 - E14	216 329
18	Cam on the left E5-14	212 274	50	Entry cam on the right -1.5 E10 - E14	216 330
19	Cam	210 252	500	Cap screw M4x8	020 091
20	Offering cam	210 185	60	Stitch cam on the right at the rear E10 - E12	236 320
21	Selector cam on the left	212 944			
22	Selector cam on the right	212 947			



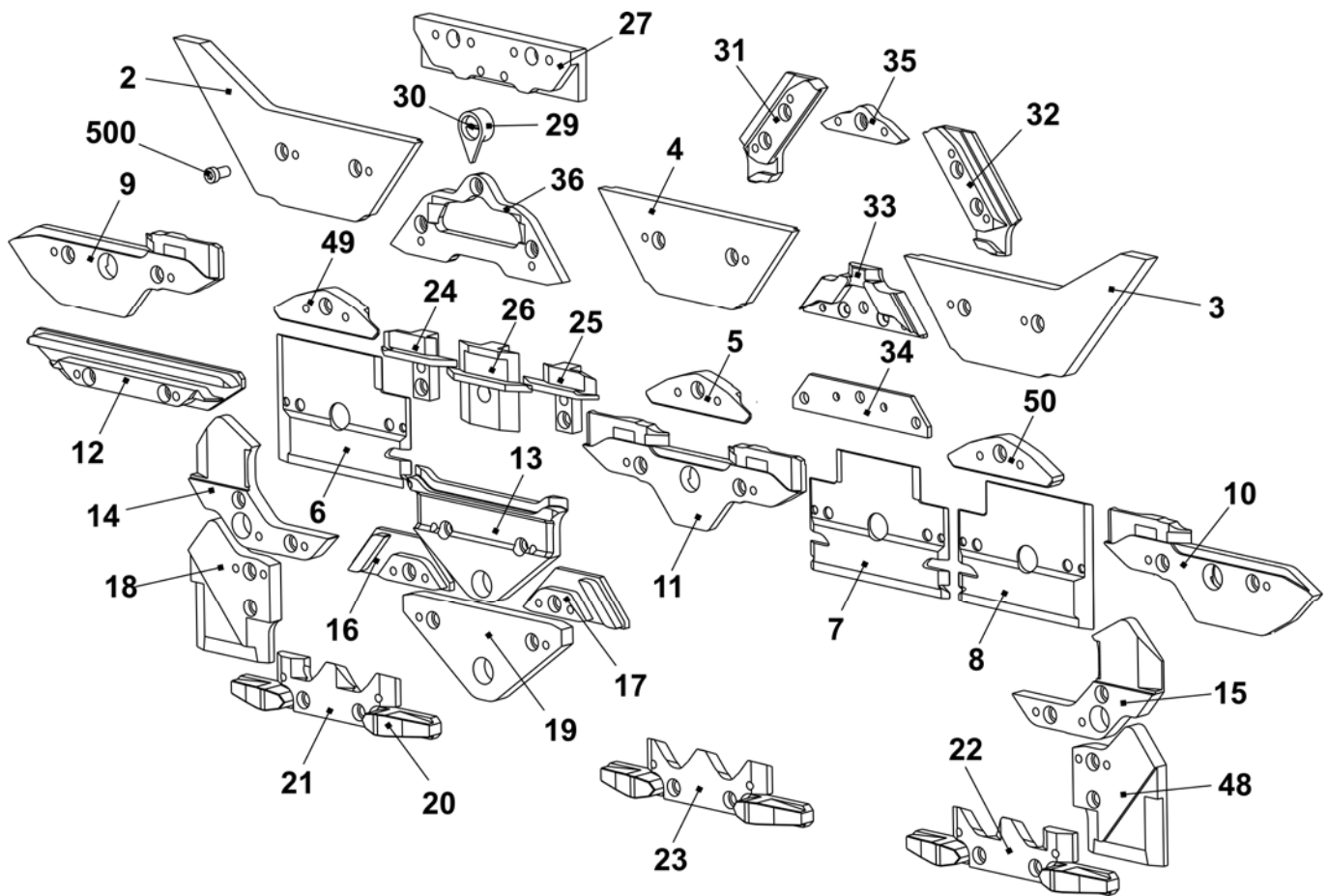
Cam box E6.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set complete E6.2	244 615	42	Contact piece	240 281
1	Cam plate	240 371	505	Shim 0.03x12x75	022 828
37	Stitch forming cam on the right complete E12 – E14	214 088	506	Shim 0.05x12x75	022 829
38	Stitch forming cam on the left complete E12 – E14	214 089	507	Shim 0.1x12x75	022 830
39	Rod guidance part left	211 165	508	Shim 0.2x12x75	022 831
40	Rod guidance part middle	211 166	509	Countersunk screw M3x4	023 142
41	Rod guidance part right	211 168	510	Shoulder screw	239 626
402	Spring rod	209 791	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
541	Disc 4.3x7x0.5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



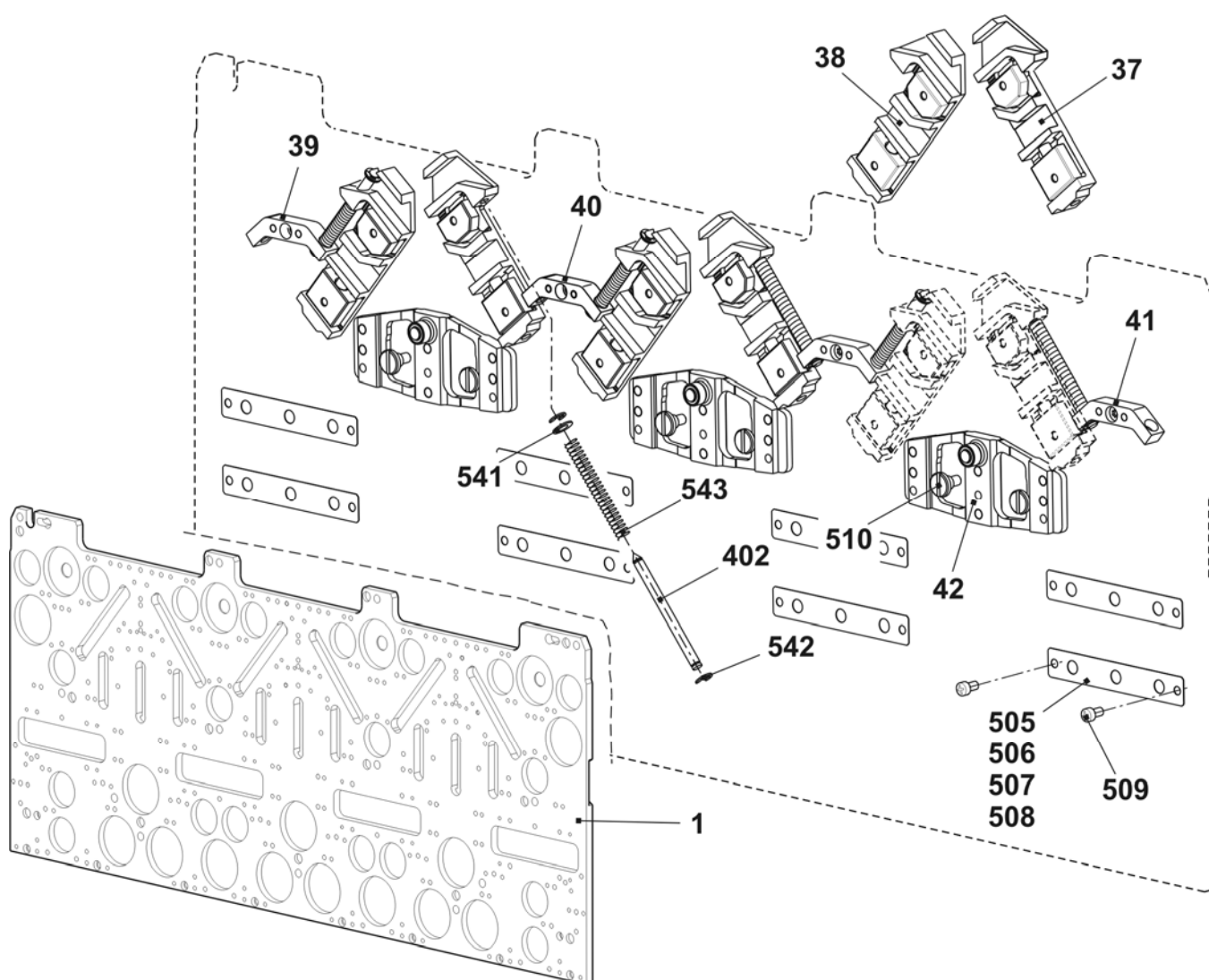
Cams E6.2

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	243 595	23	Selector cam	212 946
3	Entry cam on the right	243 597	24	Pressure cam take-over left	239 848
4	Entry cam at the top	243 596	25	Pressure cam take-over right	239 849
5	Entry cam bottom -1.5 E10 - E14	216 328	26	Tuck pressure cam	239 621
6	Plate on the left	230 988	27	Limit cam E6.2	218 306
7	Plate in the middle	231 035	29	Pointer E10 – E14	210 349
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E6.2	236 392
10	Cam on the right	231 041	32	Stitch cam on the right E6.2	236 393
11	Cam in the middle	231 040	33	Tuck limit cam E6.2	236 429
12	Cam	227 923	34	Raising cam plate E4-12	204 372
13	Cam	210 254	35	Receiving cam E6.2	236 943
14	Cam on the left E5 - E14	212 265	36	Raising cam part without split E6.2	236 766
15	Cam on the right E5 - E14	212 266		Raising cam part for split E6.2	237 948
16	Cam on the left	236 192		Accessory	
17	Cam on the right	236 193	48	Cam on the right E5-14	212 275
18	Cam on the left E5 - E14	212 274	49	Entry cam on the left -1.5 E10 - E14	216 329
19	Cam	210 252	50	Entry cam on the right -1.5 E10 - E14	216 330
20	Offering cam	210 185	500	Cap screw M4x8	020 091
21	Selector cam on the left	212 944			
22	Selector cam on the right	212 947			



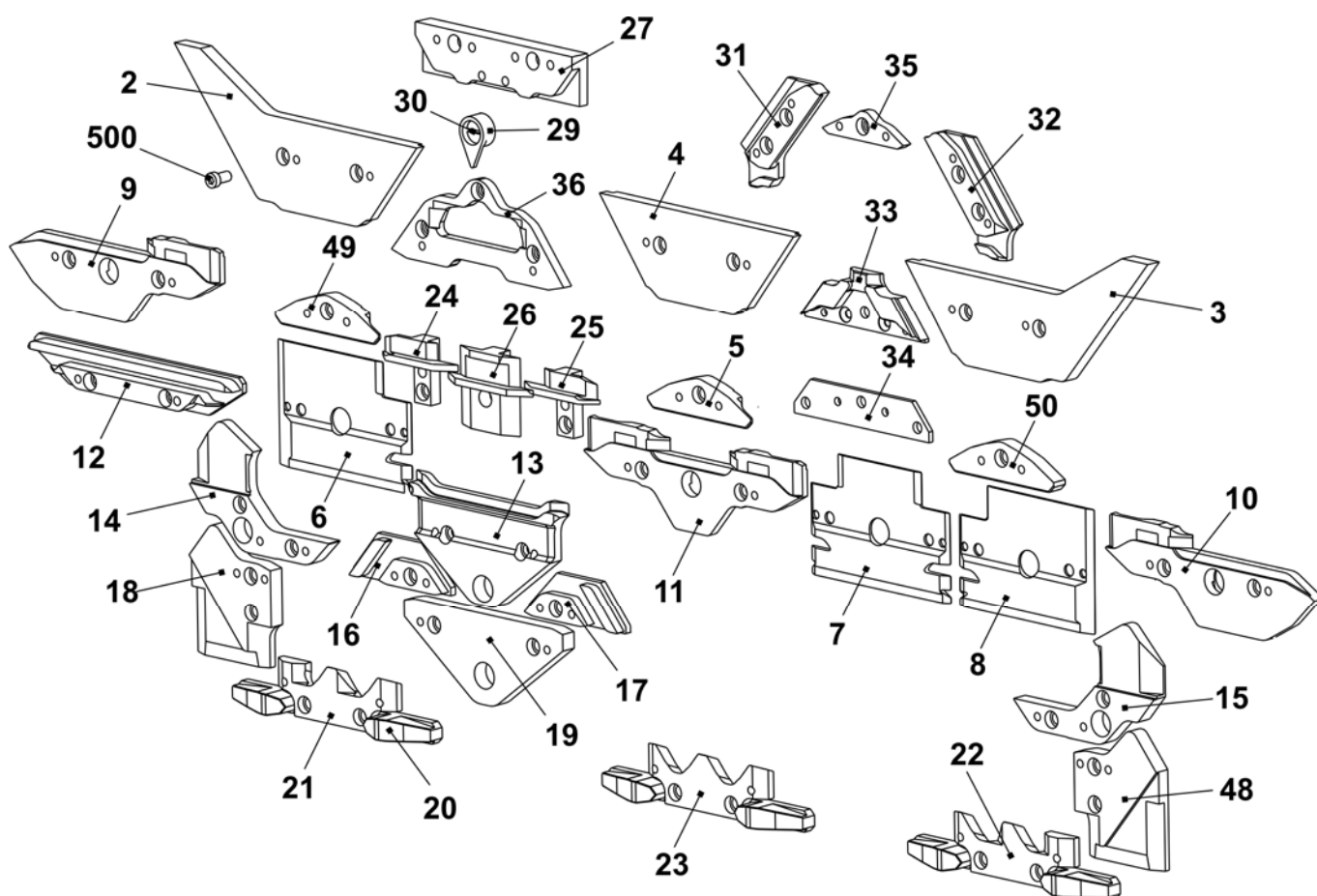
Cam box E7.2

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Cam box set complete E7.2	244 618	42	Contact piece	240 281
1	Cam plate	240 371	505	Shim 0.03x12x75	022 828
37	Stitch forming cam on the right complete E12 – E14	214 088	506	Shim 0.05x12x75	022 829
38	Stitch forming cam on the left complete E12 – E14	214 089	507	Shim 0.1x12x75	022 830
39	Rod guidance part left	211 165	508	Shim 0.2x12x75	022 831
40	Rod guidance part middle	211 166	509	Countersunk screw M3x4	023 142
41	Rod guidance part right	211 168	510	Shoulder screw	239 626
402	Spring rod	209 791	Parts at the bottom of the cam box. Cams for narrow coupling Cam box set complete contains all parts for both carriage sides		
541	Disc 4.3x7x0.5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



Cams E7.2

Pos	Designation	Ident No	Pos	Designation	Ident No
2	Entry cam on the left	243 595	23	Selector cam	212 946
3	Entry cam on the right	243 597	24	Pressure cam take-over left	239 848
4	Entry cam at the top	243 596	25	Pressure cam take-over right	239 849
5	Entry cam bottom -1.5 E10 - E14	216 328	26	Tuck pressure cam	239 621
6	Plate on the left	230 988	27	Limit cam E10	210 611
7	Plate in the middle	231 035	29	Pointer E10 – E14	210 349
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E10 -E14 + E7.2	236 318
10	Cam on the right	231 041	32	Stitch cam on the right E10 -E14 + E7.2	236 319
11	Cam in the middle	231 040	33	Tuck limit cam E10 + E7.2	236 345
12	Cam	227 923	34	Raising cam plate E4-12	204 372
13	Cam	210 254	35	Receiving cam E10 - E12	210 595
14	Cam on the left E5-14	212 265	36	Raising cam part without split E10 – E12 + E7.2	237 993
15	Cam on the right E5-14	212 266		Raising cam part for split E10 – E12 + E7.2	213 300 Accessory
16	Cam on the left	236 192	48	Cam on the right E5-14	212 275
17	Cam on the right	236 193	49	Entry cam on the left -1.5 E10 - E14	216 329
18	Cam on the left E5-14	212 274	50	Entry cam on the right -1.5 E10 - E14	216 330
19	Cam	210 252	500	Cap screw M4x8	020 091
20	Offering cam	210 185			
21	Selector cam on the left	212 944			
22	Selector cam on the right	212 947			



STOLL

THE RIGHT WAY TO KNIT

CMS 933 (Type 769)

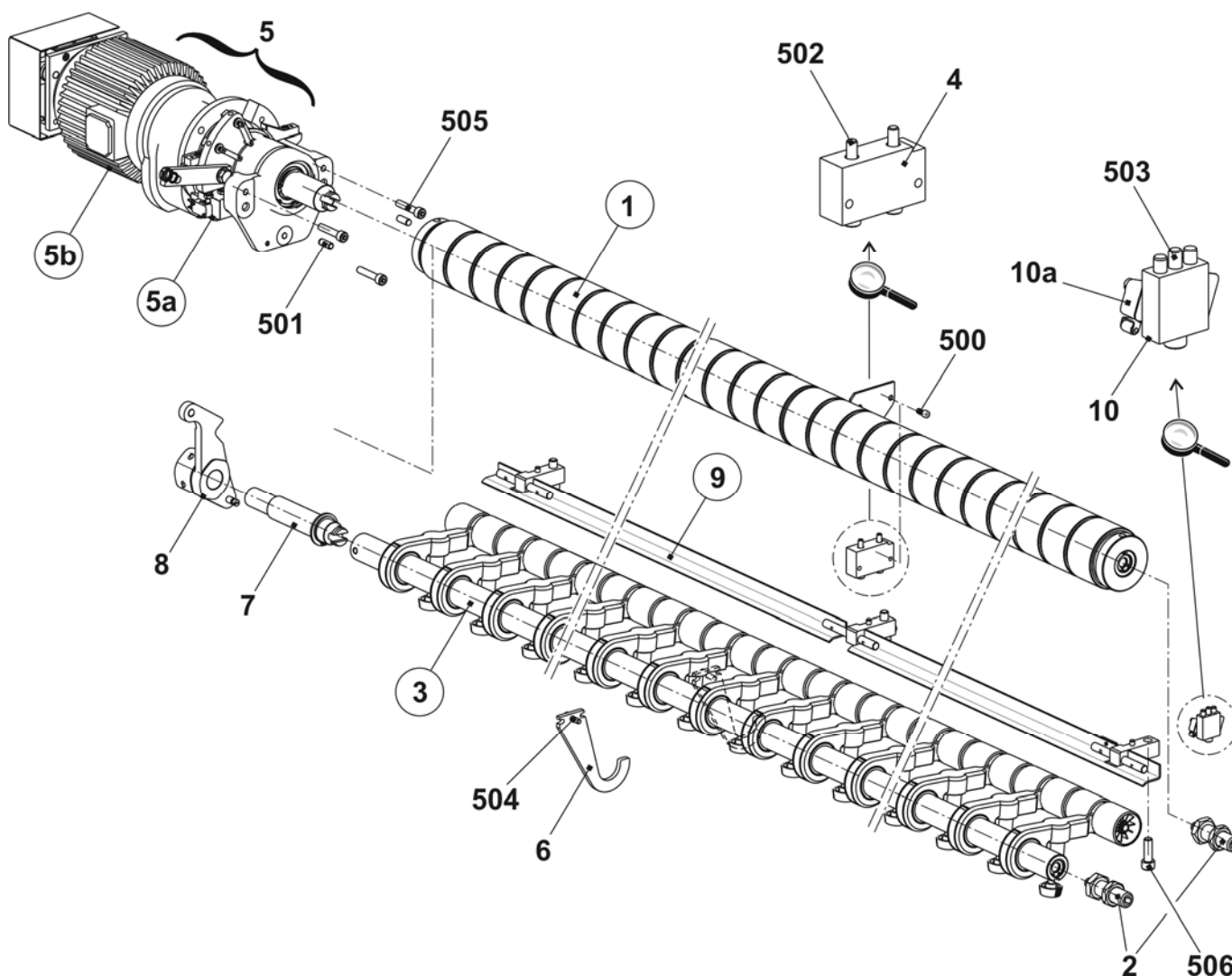
Main take-down

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Main take-down

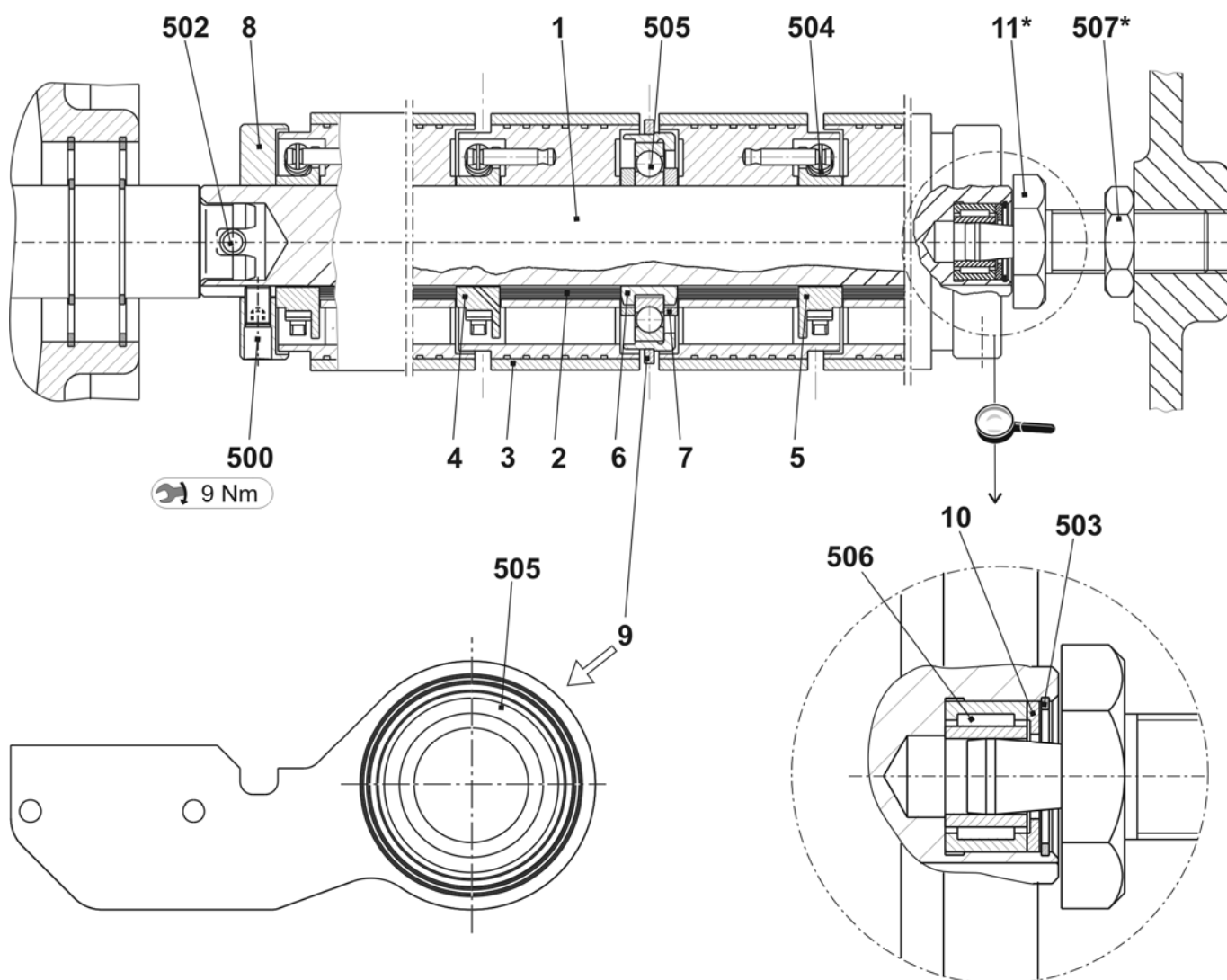
Main take-down

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Main take-down	243 279	9	Fabric stripper	211 207
1	Take-down roller complete	211 170	10	End stop complete	209 009
2	Journal complete	209 496	10a	Microswitch	026 259
3	Contact shaft complete	243 265	500	Cap screw M6X12	020 134
4	Bearing	207 692	501	Setting pin 8x20	020 693
5	Take-down unit	244 450	502	Cap screw M6x45	022 689
5a	Take-down gear assembly komplett	211 172	503	Cap screw M6x40	020 140
5b	Take-down motor with block	244 449	504	Cap screw M6x20-12.9	020 136
6	Support	243 294	505	Cap screw M8X40	020 145
7	Shaft complete	211 173	506	Cap screw M10x30	020 158
8	Lever complete	211 210			



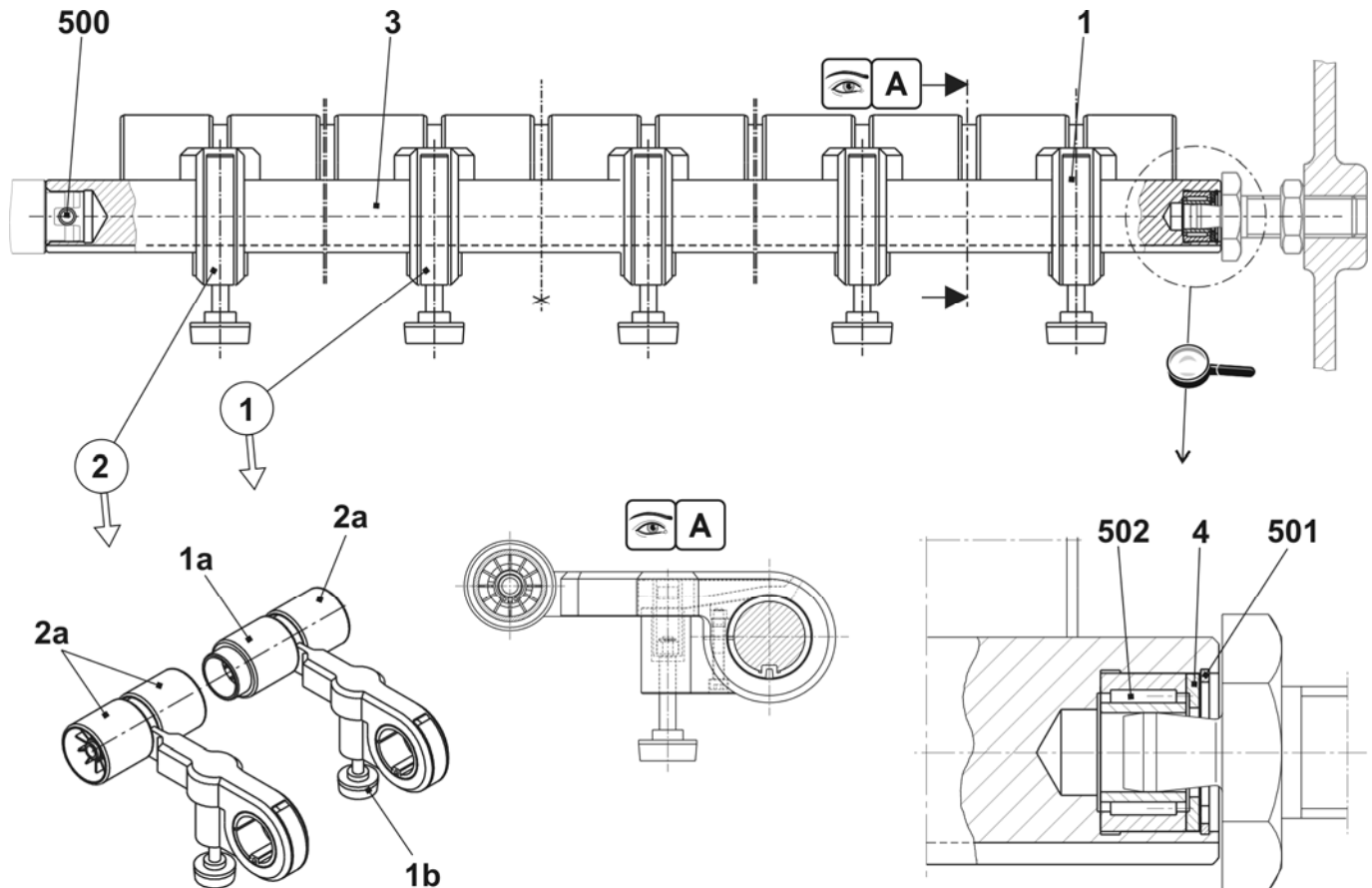
Take-down roller

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Take-down roller complete	211 170	9	Support	204 462
1	Shaft	211 111	505	Ball bearing 16007	021 697
2	Spacer slide	204 340	10	Spacing ring	030 689
3	Roller	236 169	11*	Journal	204 319
4	Stop ring on the left	204 369	500	Grub screw M8x12-45H	023 393
5	Stop ring on the right	204 376	502	Setting pin 8x34	020 699
6	Slide	204 341	503	Locking ring 24x1.2	020 975
7	Spacing ring	204 343	504	Tension spring 8x0.95x65	023 231
8	End ring	211 110	506	Needle roller bearing NA4901	021 746
			507*	Hexagon nut M20x1.5	020 860



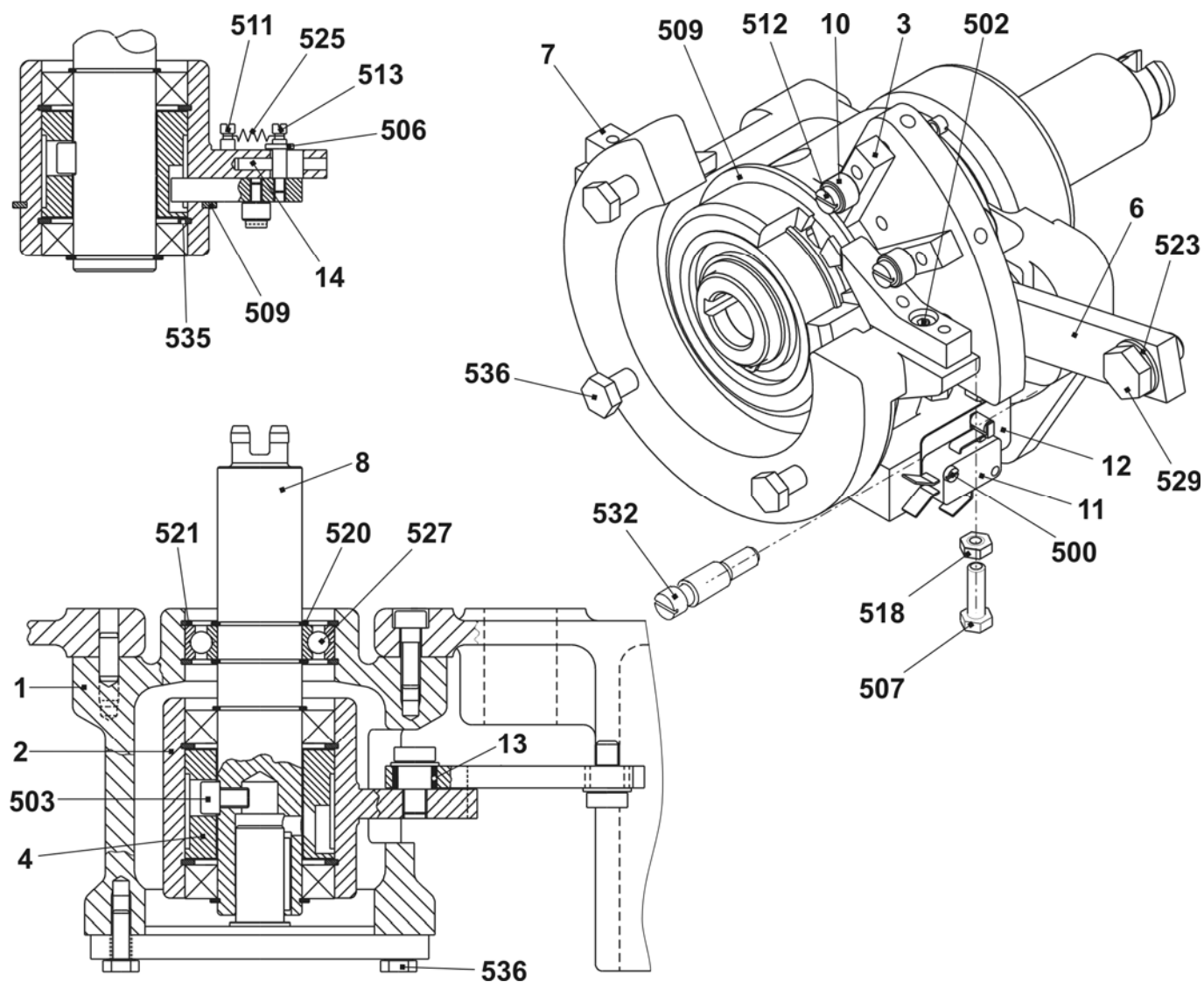
Contact shaft

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Contact shaft complete	243 265	3	Shaft	211112
1	Contact lever	243 262	4	Spacing ring	030 689
1a	Pressure roller	243 552	500	Setting pin 8x34	020 699
1b	Knurled screw	242 331	501	Locking ring 24x1.2	020 975
2	Contact lever on the left	243 263	502	Needle roller bearing NA4901	021 746
2a	Pressure roller	243 551			



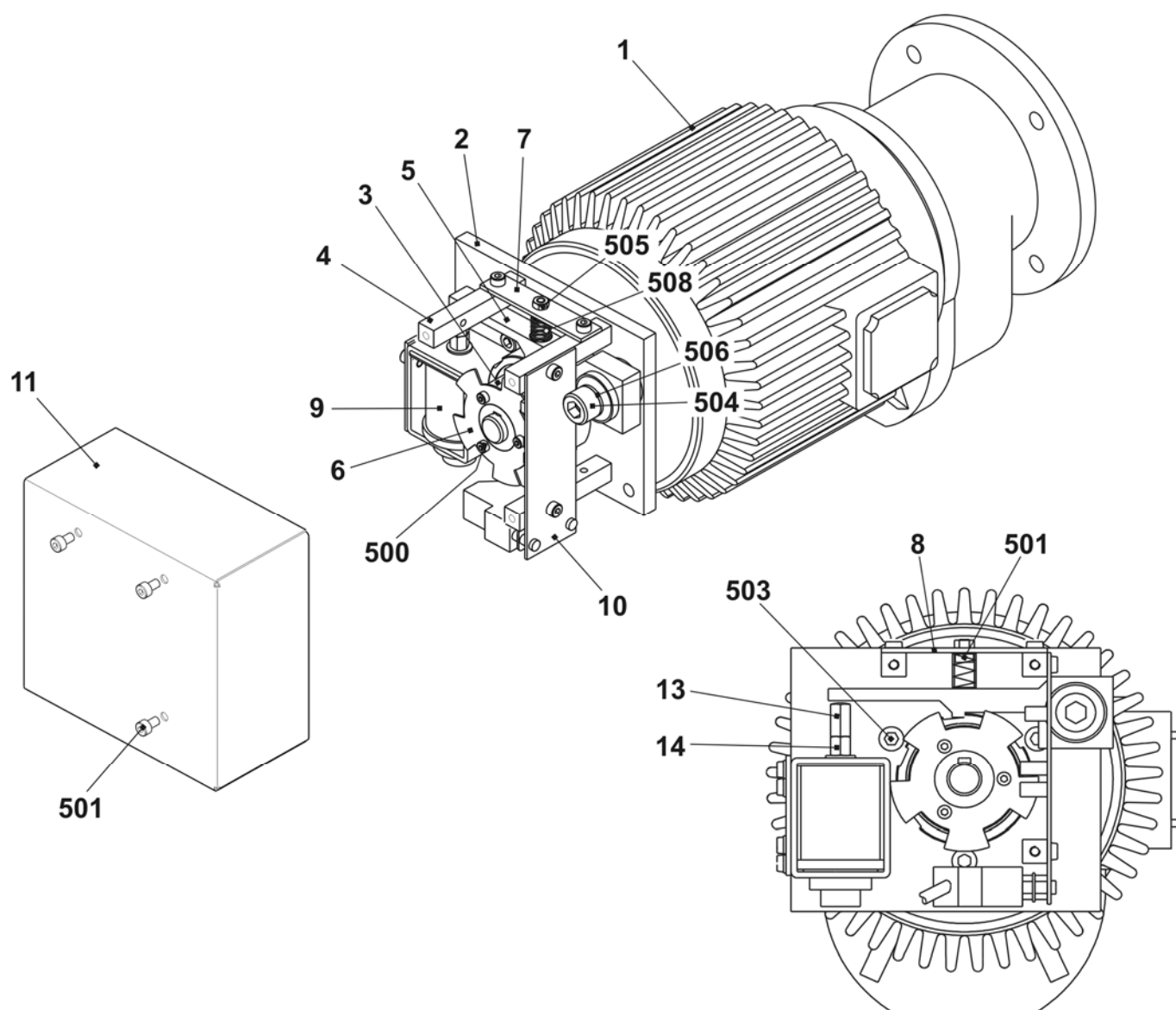
Take-down gear assembly

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Take-down gear assembly komplett	211 172	506	Washer 6.4x12x0.3	022 737
1	Main bearing	204 292	507	Hexagon screw M6X16	020 356
2	Bearing housing	204 293	509	Locking ring 80x2.5	023 225
3	Slider	204 314	511	Cap screw M5x11x17	204 318
4	Driver sleeve	204 313	512	Shoulder screw M5x8x8	020 247
6	Lug	204 323	513	Shoulder screw M5x12.5x29-5.8	204 317
7	Ramp	209 281	518	Hexagon nut M6-04	020 855
8	Drive shaft	211 127	520	Locking ring 35x1.5	023 139
10	Roll	207 077	521	Locking ring 62x2	020 986
11	Microswitch	026 259	523	Supporting disk S 14x20x1,5	023 223
12	Insulating disk	048 012	525	Tension spring 6x0.65x20	021 187
13	Sleeve	207 078	527	Ball bearing 6007-2Z	023 140
14	Damping pin	200 919	529	Hexagon screw M10X20	020 366
500	Cap screw M3x15	020 009	532	Shoulder screw M6x17x24-5.8	023 178
502	Cap screw M5x10	022 918	535	Shim ring 50x62x0.5	023 226
503	Cap screw M8X12	023 138	536	Hexagon screw M8x20	020 361



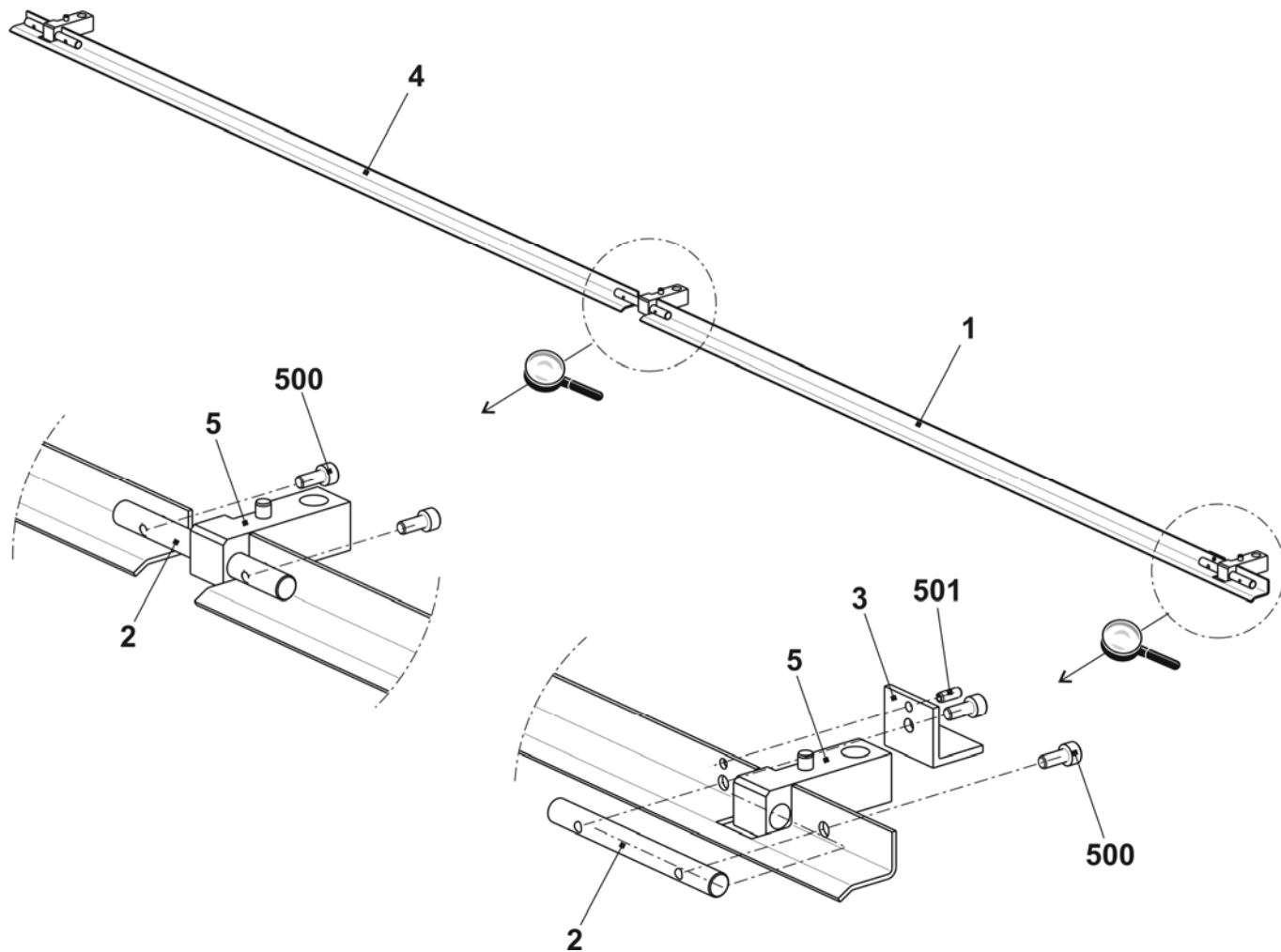
Take-down motor with block

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Take-down motor with block	244 449	11	Cover	244 448
1	Motor of main take-down	217 602	13	Thrust piece	202 940
2	Base plate	204 643	14	Nut	202 941
3	Hub switching ring	208 934	500	Cap screw M3x6	022 589
4	Bolt	202 933	501	Cap screw M4x6	023 067
5	Catch complete	211 560	503	Cap screw M6X16	020 135
6	Impulse disc WA1	202 751	504	Cap screw M10x1x35	023 364
7	Bridge	202 936	505	Hexagon nut M4-6	020 834
8	Plate	205 139	506	Shim ring 10x16x1.5	023 261
9	Ratchet magnet	026 042	508	Compression spring 0.7x8.8x35	023 028
10	Card for impulse giver of rotary field motor	300 487			



Fabric stripper

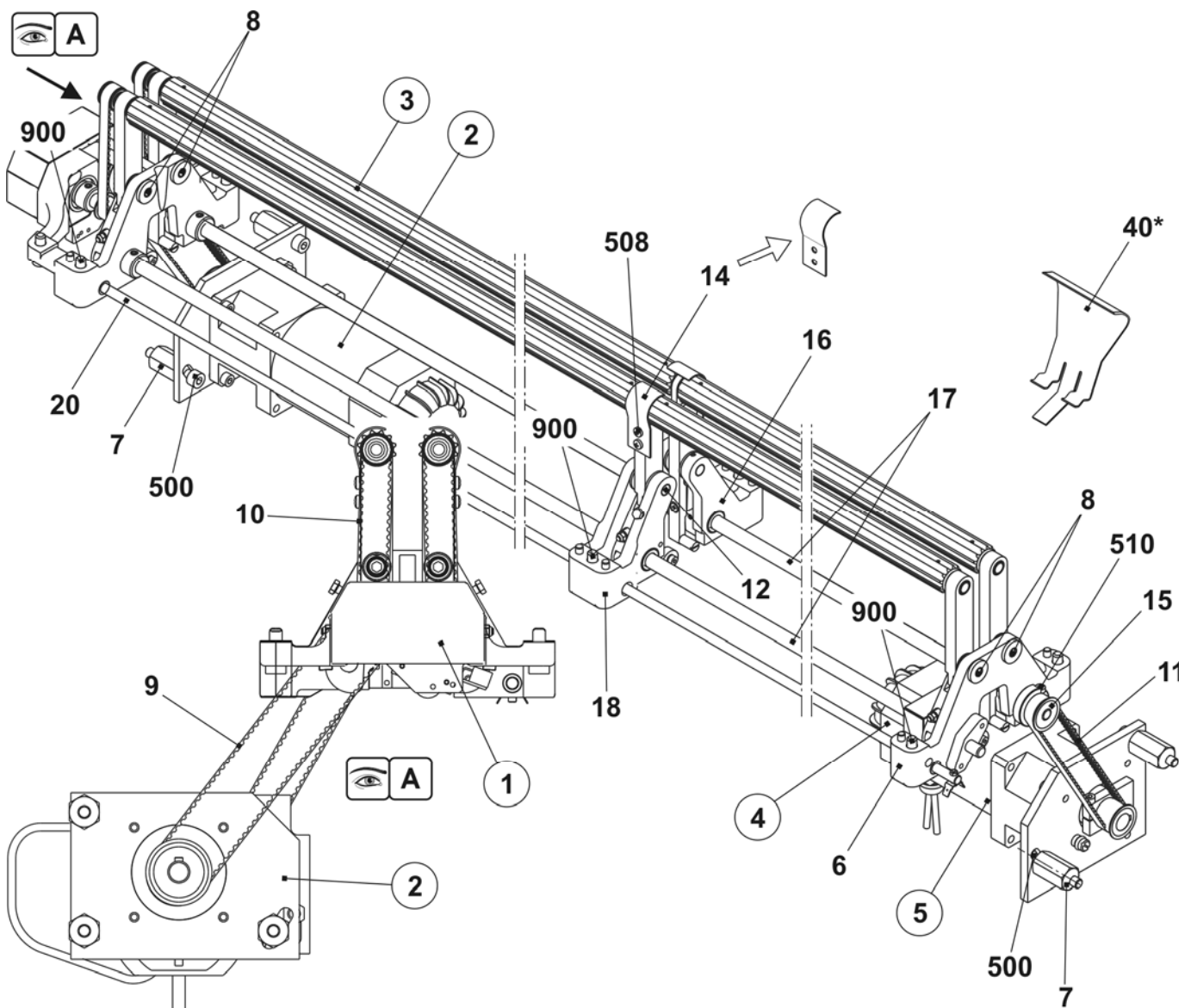
Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Fabric stripper	211 207	4	Stripping plate on the left	211 151
1	Stripping plate on the right	211 150	5	Bearing	211 152
2	Axle	211 218	500	Cap screw M5x12	020 132
3	Lever	211 215	501	Spring dowel sleeve 4x10	020 781



Auxiliary take-down

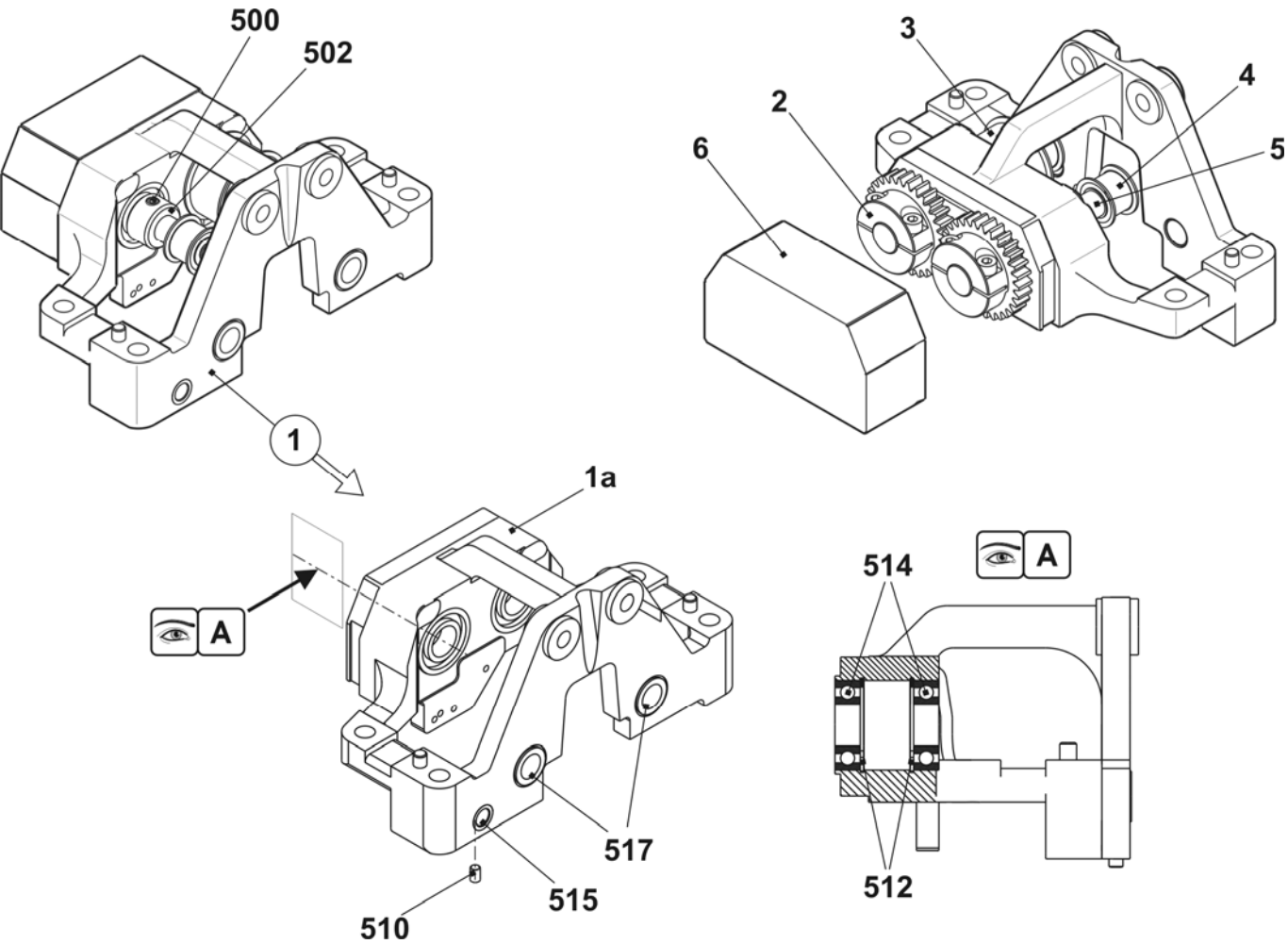
Auxiliary take-down

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Auxiliary take-down	239 084	12	Bolt	225 782
1	Main bearing complete	239 081	14	Cover	211 093
2	Motor biphas complete	239 056	15	Timing belt pulley Z16 T5	207 575
3	Take-down roller complete	227 517	16	Bearing at the rear in the middle	227 520
4	Gear	211 204	17	Shaft	210 869
5	Motor biphas complete	239 073	18	Bearing in the front and middle	227 524
6	Bearing at the right	227 522	20	Contact rod	211 195
7	Stay bolt	238 991	40*	Fabric sensor	208 200
8	Bolt	227 363	500	Cap screw M8X20	020 141
9	Toothed belt 16t5/525	207 635	508	Countersunk screw M4x8	023 036
10	Toothed belt 10t5/280	207 633	510	Cap screw M5x16-8.8	023 141
11	Toothed belt 10t5/420	239 036	900	Cap screw M8x35	020 144



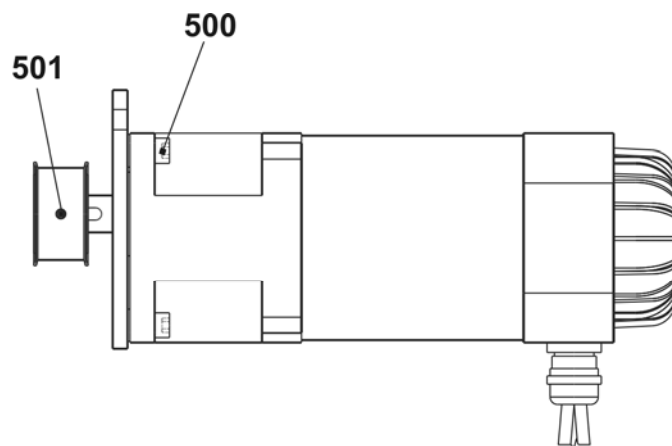
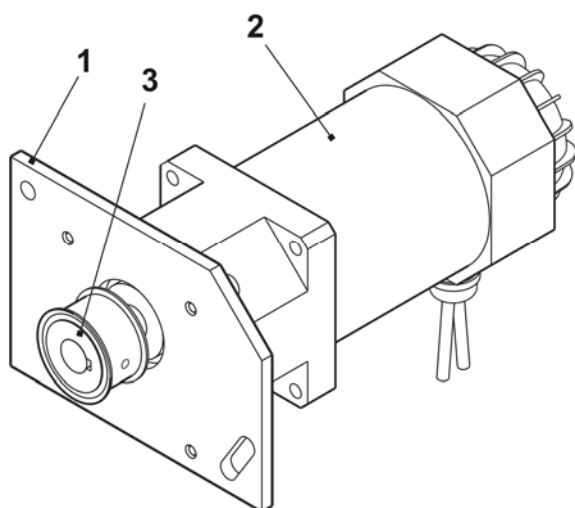
Main bearing

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Main bearing complete	239 081	2	Gear wheel	209 428
1	Main bearing pre-assembled	227 529	3	Timing belt pulley	209 436
1a	Main bearing	227 510	4	Timing belt pulley	210 555
510	Set screw M5x6	022 580	5	Shaft	211 141
512	Locking ring 32x1.2	023 355	6	Cover	211 357
514	Deep groove ball bearing 6002-2ZY	023 217	500	Set screw M6x5	023 192
515	Slide bearing MSM-0812-08	023 353	502	Set collar A12	020 935
517	Slide bearing GFM -121418-10	023 352			



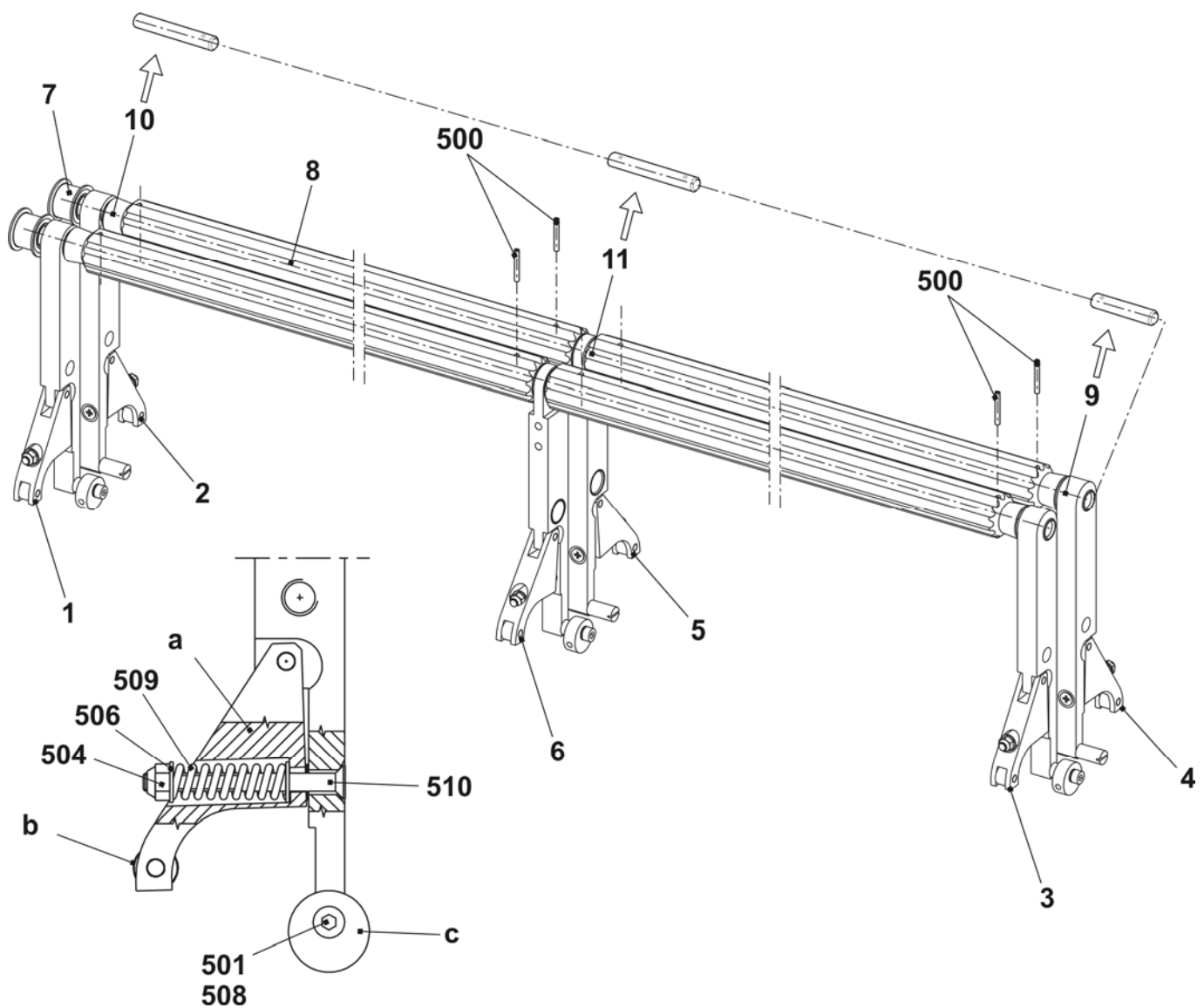
Motor on the left

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Motor biphas complete	239 056	3	Timing belt pulley	238 060
1	Motor plate	238 061	500	Cap screw M6X16	020 135
2	Motor	234 805	501	Grub screw M4x6	023 088



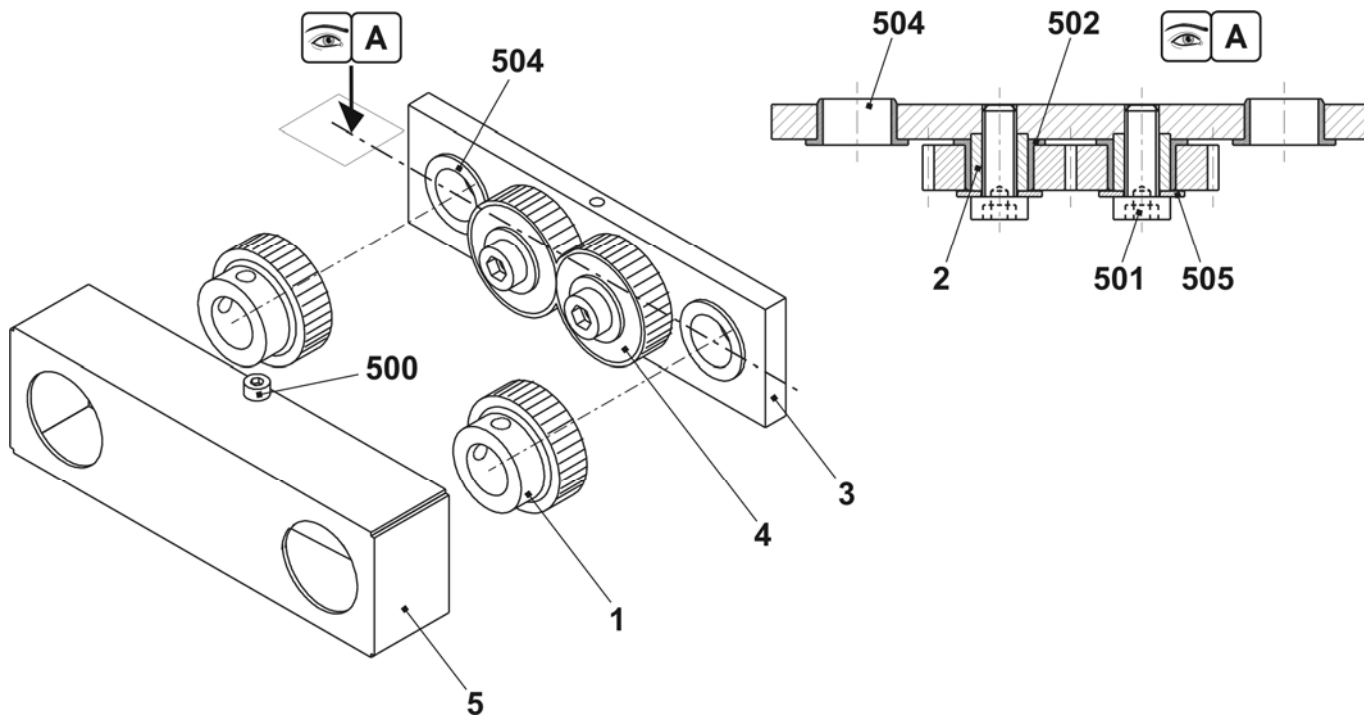
Take-down roller

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Take-down roller complete	227 517	11	Bolt	225 536
1	Lever at the front on the left complete	227 511	500	Spring dowel sleeve 3x20	020 776
2	Lever at the rear on the left complete	227 512	a	Tumbler lever	208 434
3	Lever at the front on the right complete	227 515	b	Roll	200 577
4	Lever at the rear on the right complete	227 516	c	Eccentric	208 486
5	Lever at the rear in the middle complete	227 513	501	Cap screw M4x20	023 171
6	Lever at the front in the middle complete	227 514	504	Hexagon nut M4-6	023 046
7	Timing belt pulley	225 910	506	Washer 4-200hv	020 870
8	Take-down roller	225 783	508	Circlip S4	022 774
9	Bolt	225 782	509	Compression spring 1,6x6,4x27,1	023 288
10	Bolt	225 781	510	Countersunk screw M4x45	023 291



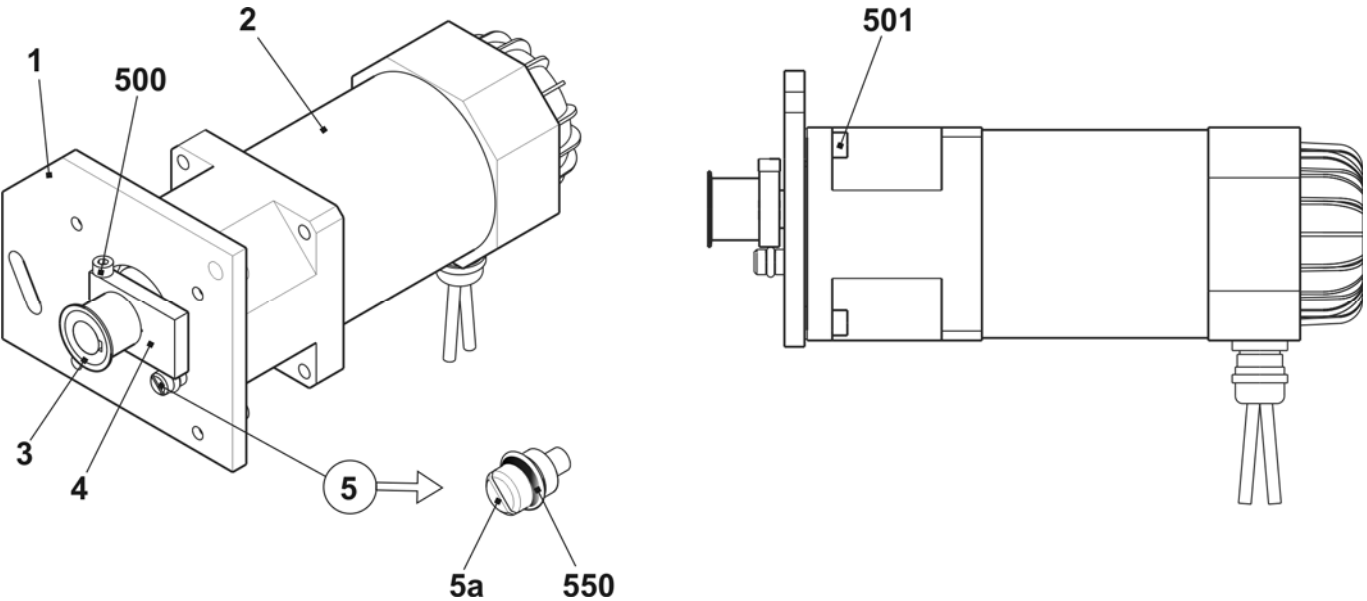
Gear

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Gear	211 204	500	Cap screw M3x6	022 589
1	Gear wheel	208 101	501	Cap screw M6X16	023 116
2	Sleeve	211 136	502	Slide bearing GFM - 101216-09	023 356
3	Lug	211 134	504	Slide bearing GFM-121418-08	023 281
4	Gear wheel	211 138	505	Washer 6.4x15x1	020 902
5	Cover	211 139			



Motor on the right

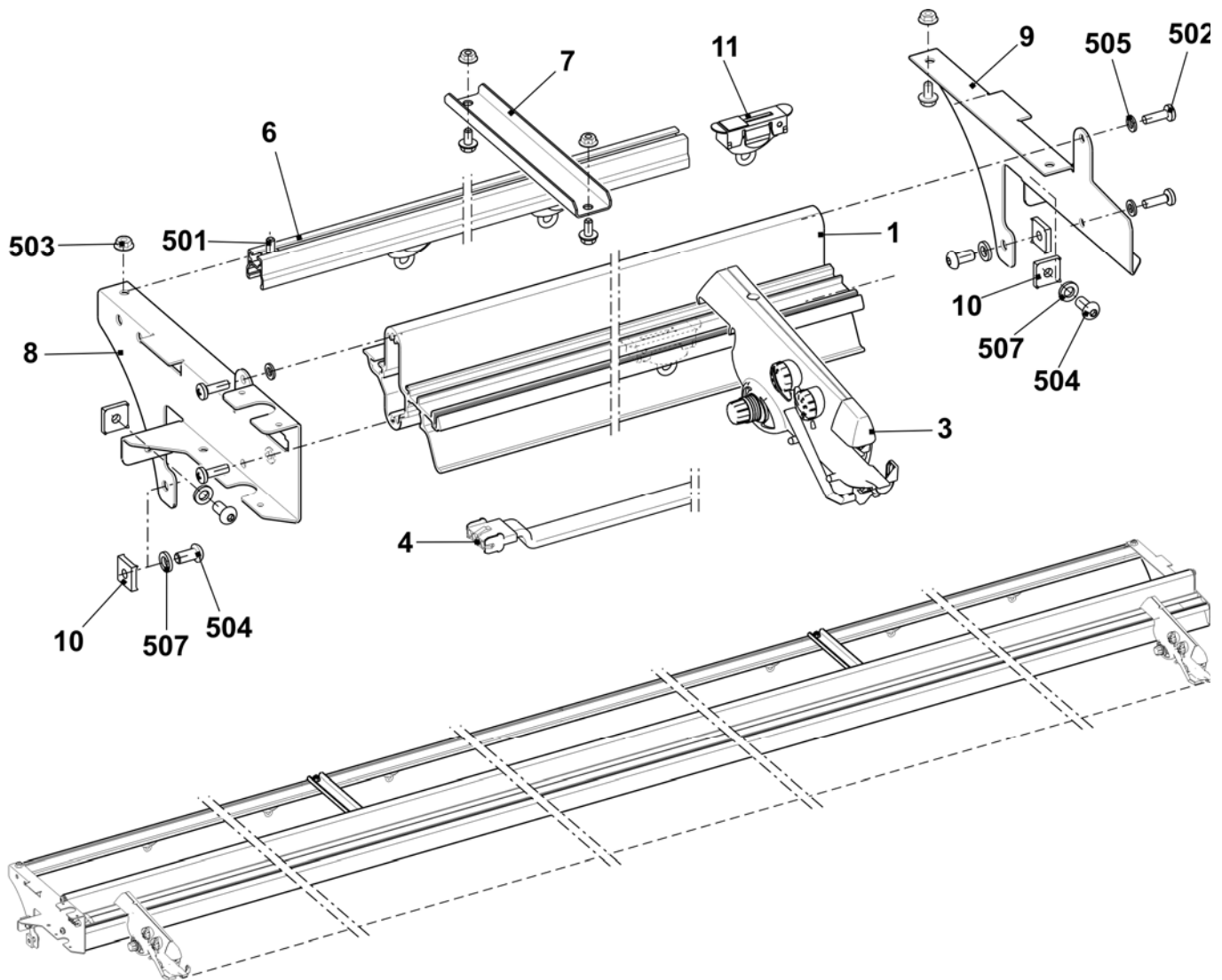
Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Motor biphas complete	239 073	5	End stop complete	208 921
1	Plate for motor	238 069	5a	Stop point	207 617
2	Motor	234 805	550	O-ring 6x3	022 856
3	Timing belt pulley Z16 T5	238 086	500	Cap screw M5x25	023 523
4	Clamping lever	238 084	501	Cap screw M6X16	020 135



Yarn delivery device

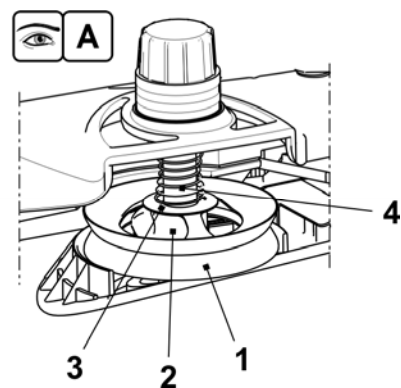
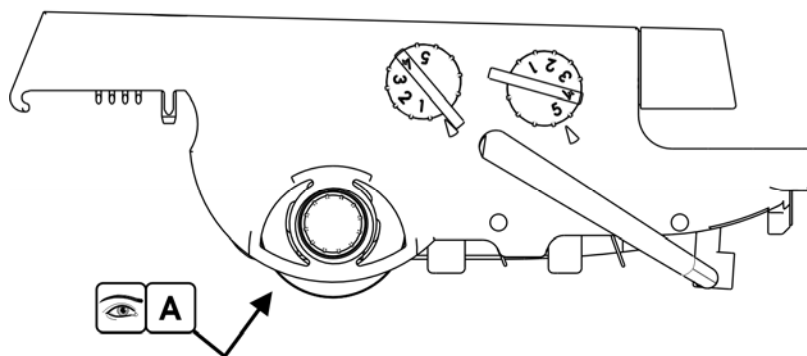
Yarn guide system from 26 to 30 FKE

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Yarn guide system 26 FKE 933	242 722	10	Sliding block	228 851
	Yarn guide system 30 FKE 933	242 723	11	Yarn guide bracket complete	241 581
1	Support	243 114	501	Ratchet screw M6X12	023 415
3	Yarn control device	237 124	502	Screw CE M6x16	023 678
4	Connection cable FKE 3 96"	240 350	503	Ribbed lock washer M6-10	023 414
6	Yarn guide bar	242 431	504	Countersunk screw M6x16	023 113
7	Support	243 792	505	Washer 6-200hv	022 431
8	Support on the left	243 600	507	Serrated lock washer J8.4	023 388
9	Support on the right	243 601			



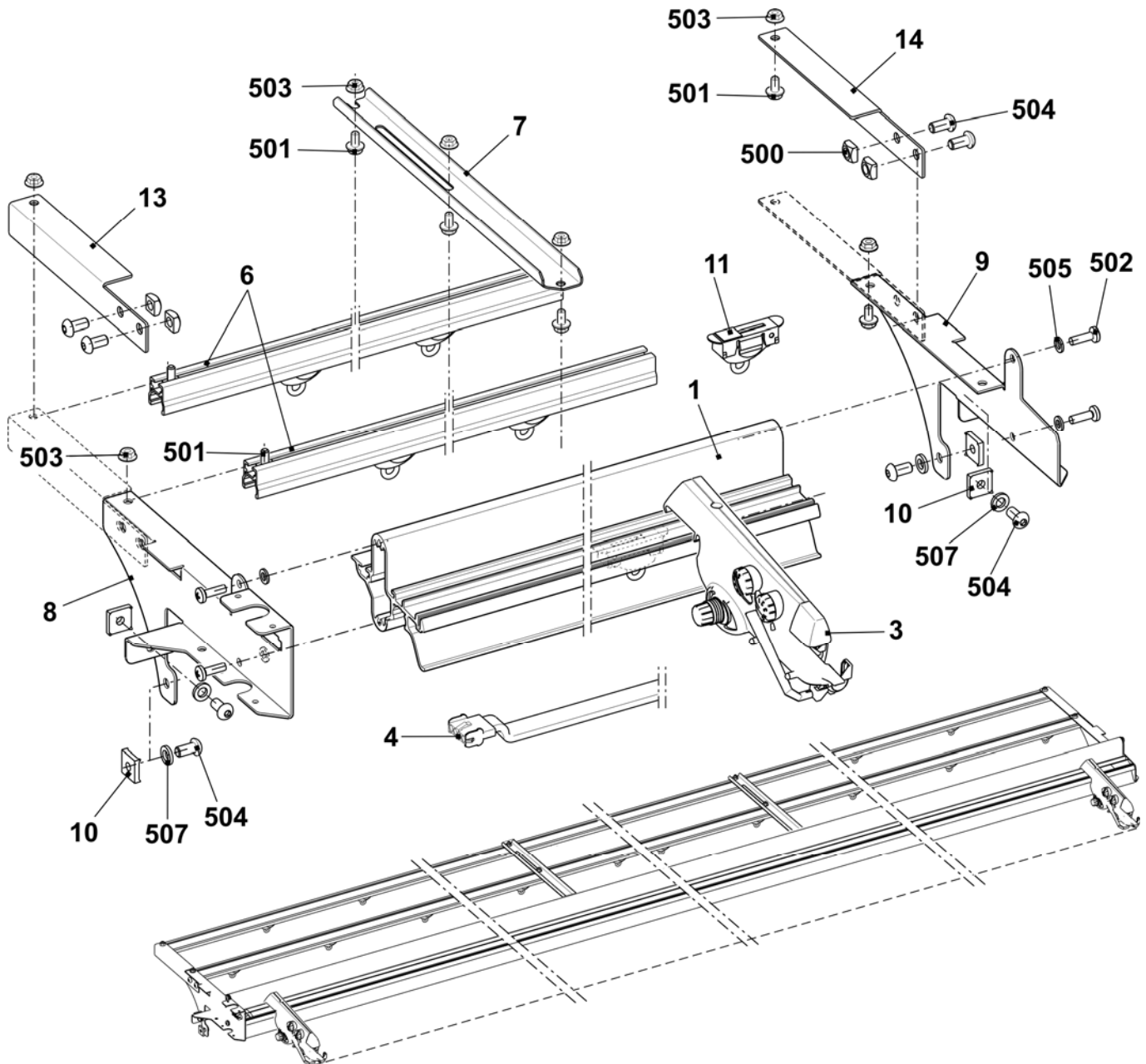
Yarn control unit

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Yarn control unit	237 124	3	Disc	216 372
1	Yarn brake settings	216 365	4	Compression spring	244 488
2	Porcelain eyelet of thread brake	244 407			



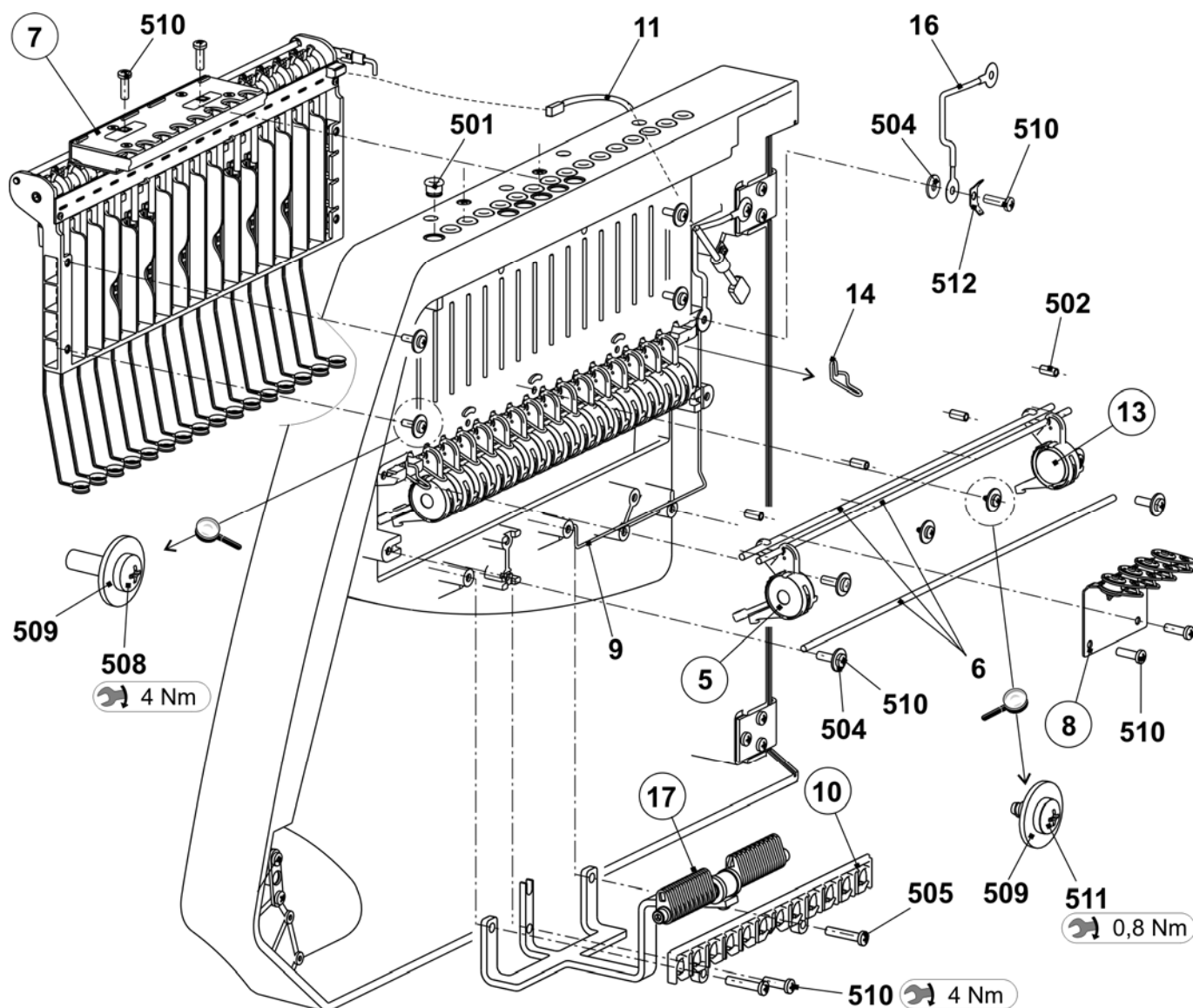
Yarn guide system with 36 FKE

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Yarn guide system 36 FKE 933	242 447			
1	Support	243 114	13	Support on the left	243 602
3	Yarn control device	237 124	14	Support on the right	243 603
4	Connection cable FKE 3 96"	240 350	500	Square nut M8	023 269
6	Yarn guide bar	242 431	501	Ratchet screw M6X12	023 415
7	Support	239 295	502	Screw CE M6x16	023 678
8	Support on the left	243 600	503	Ribbed lock washer M6-10	023 414
9	Support on the right	243 601	504	Countersunk screw M6x16	023 113
10	Sliding block	228 851	505	Washer 6-200hv	022 431
11	Yarn guide bracket complete	241 581	507	Serrated lock washer J8.4	023 388



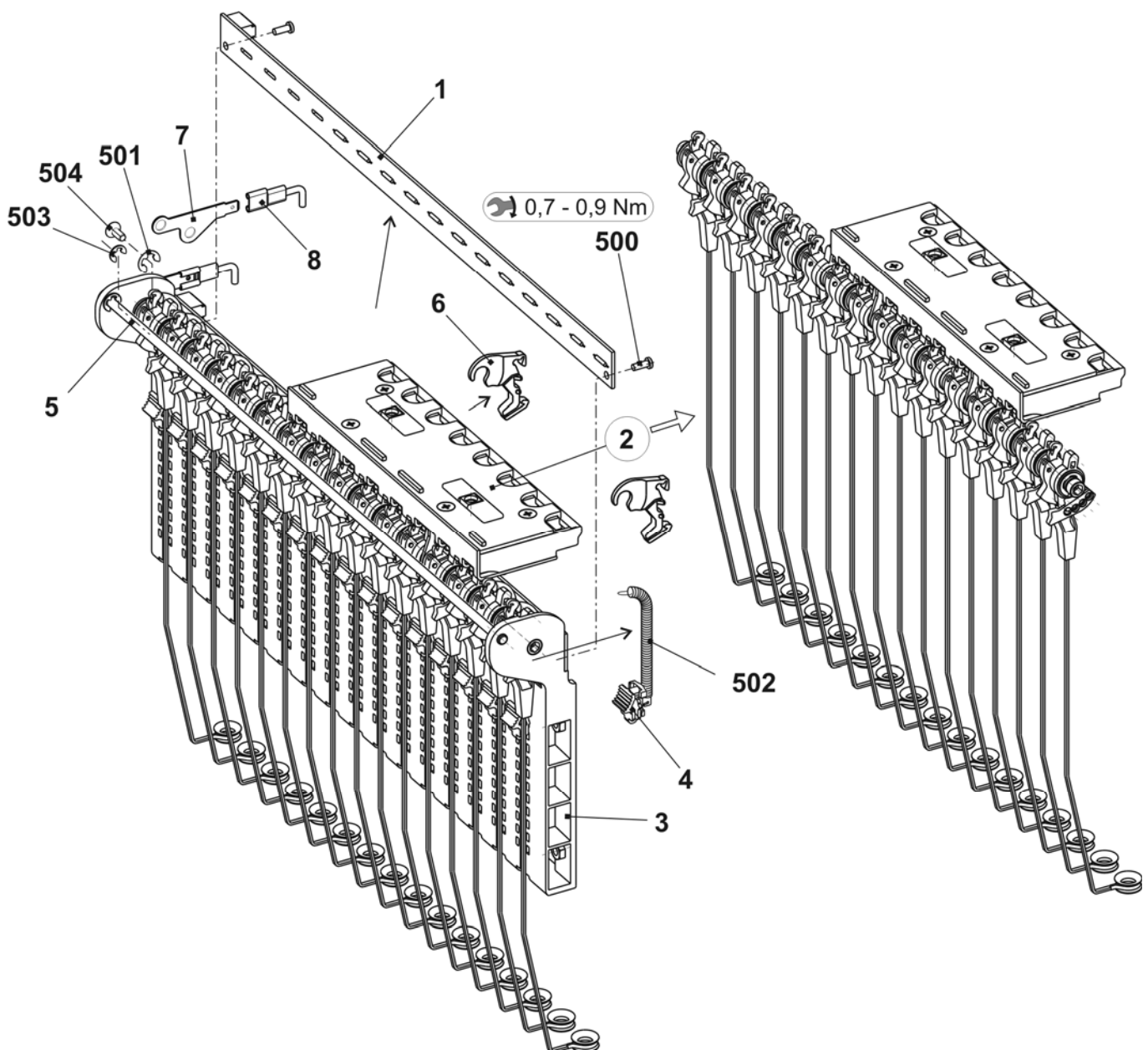
Left yarn guide

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Safety cover on the left complete		13	Yarn brake not adjustable	244 356
	E5 (E5m.4/7m.5/3,5.2/5.2)	242 387	14	Clamping bow	244 409
	E7 - E8 (E7m.8/8m.7/6.2)	242 388	16	Ground cable	244 404
	E10 - E18 (E10m.12/12m.10/7.2)	242 389	17	Yarn guide inside	250 412
5	Yarn brake complete	244 347	501	Ceramic eyelet	240 640
6	Shaft	241 318	502	Compression spring 0.90x5.40x13.60	241 360
7	Yarn tensioner on the left complete E5	242 994	504	Washer	022 537
	Yarn tensioner on the left complete E7-8	242 996	505	Screw KB 60x30	237 683
	Yarn tensioner on the left complete E10-18	242 997	508	Countersunk screw M5x16	023 187
8	Deflector on the left complete	223 316	509	Disc 503x18x1.5	020 909
9	Wire bow on the left	241 370	510	Screw KB 60x20	237 682
10	Yarn deflector	242 011	511	Sheet metal screw ST4.8x9.5-F	242 374
11	Connection cable slack tensioner OKC	240 808	512	Flat connector 2x45° M6	243 117



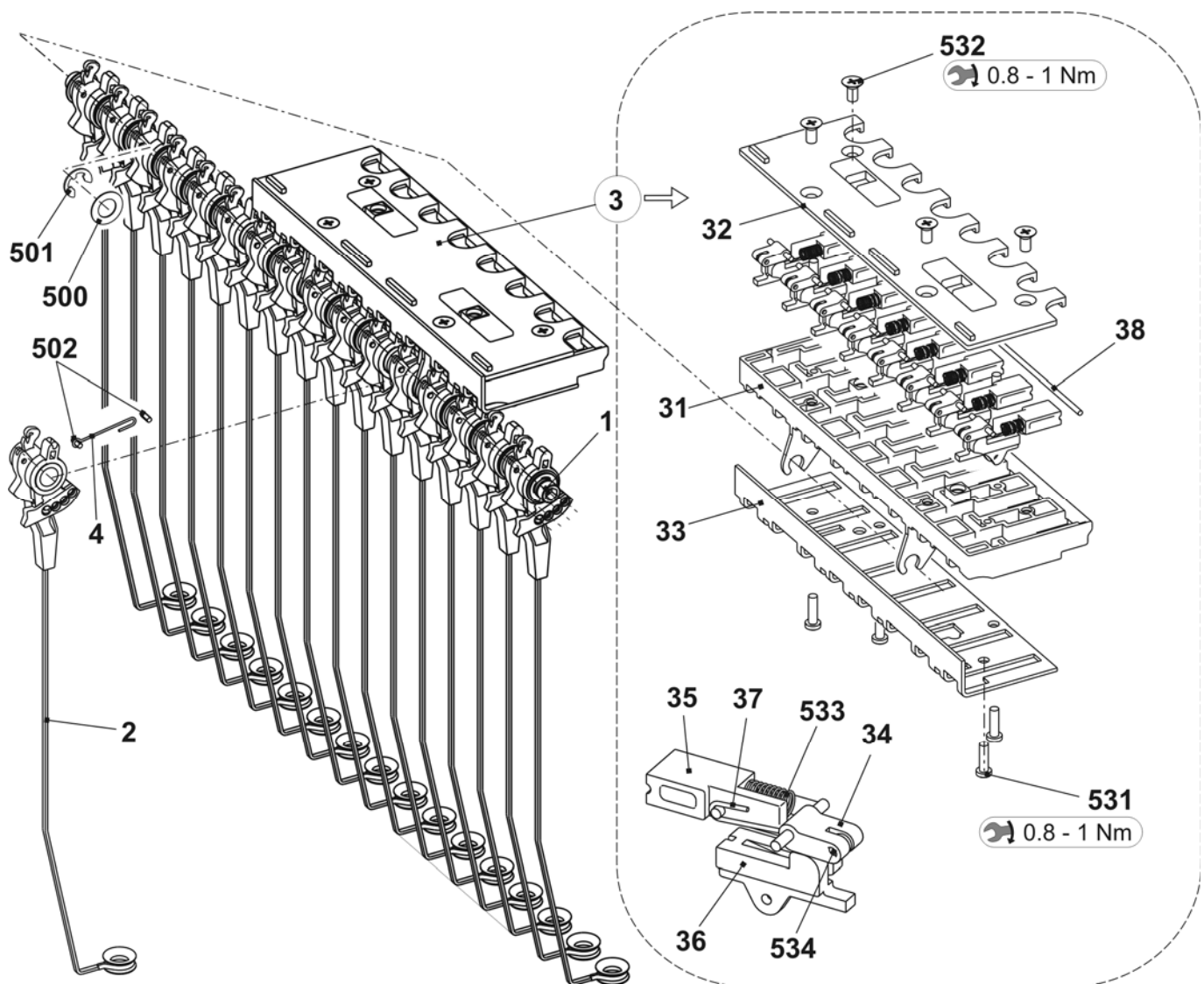
Left yarn tensioner

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Yarn tensioner on the left complete		7	Grounding sheet metal of tension axle	243 121
	E5	242 994	8	Ground cable slack tensioner OKC	243 105
	E7 – E8	242 996	500	Screw KB 30x8	236 228
	E10 – E14	242 997	501	Circlip - 6	021 022
1	Card slack tensioner 16-fold on the left	241 345	502	Tension spring	
2	Tension axle on the left complete (E5 – 8)	242 995		Tension spring 5.05x0.55x53 (E5)	023 502
	Tension axle on the left complete (E10 – 14)	242 998		Tension spring 4,9x0,5x53 (E7-E8)	023 503
3	Housing	241 367		Tension spring 4.9x0.45x53 (E10-E14)	023 504
4	Slider	241 694	503	Circlip	021 020
5	Stop point	241 368	504	Countersunk screw M4x10	241 914
6	Spacer	242 048			



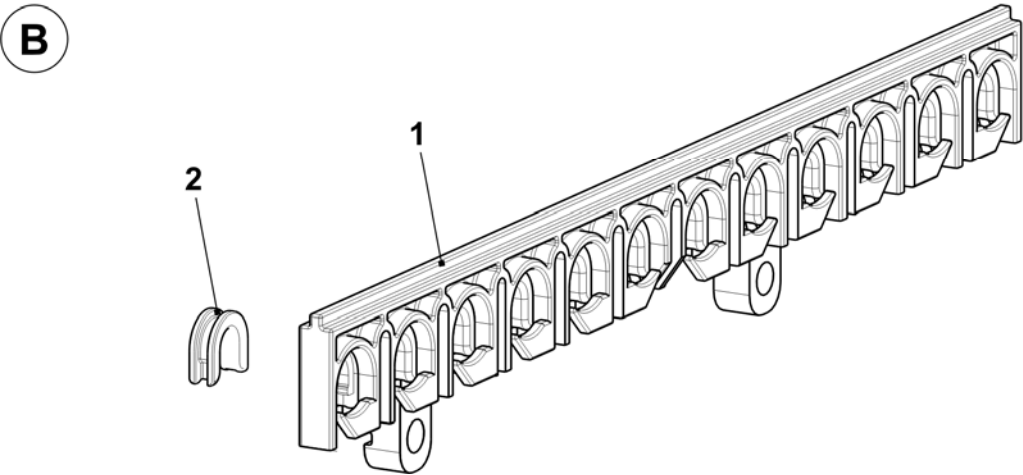
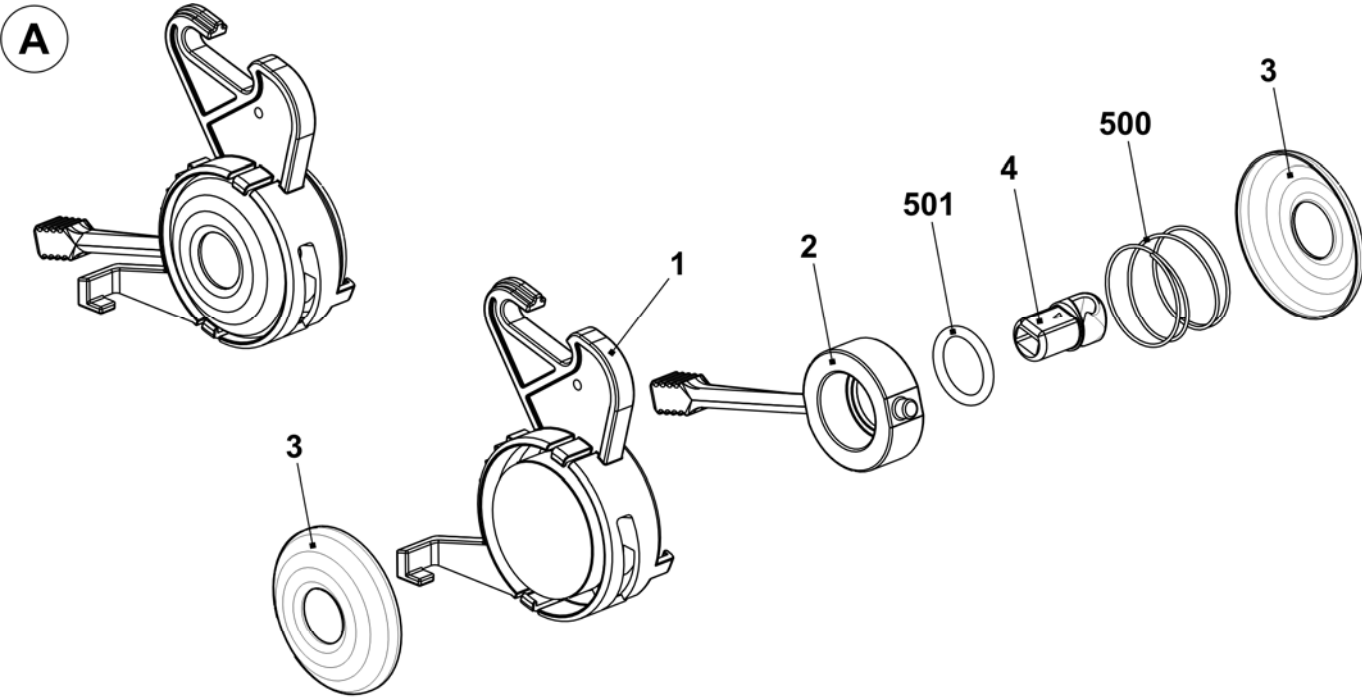
Left tension axle

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Tension axle on the left complete		3	Thread clamp AKF	238 695
	E5 – E8	242 995	31	Housing AKF	238 689
	E10 – E14	242 998	32	Cover AKF	237 926
1	Axle	243 107	33	Sheet metal at the bottom (Housing AKF)	240 719
2	Tension arm pre-assembled E5 - E8	242 770	34	Lever AKF	238 692
	Tension arm pre-assembled E10 - E14	242 771	35	Thrust piece AKF	238 690
4	Wire bow	238 694	36	Slider AKF	238 691
500	Adjusting washer 8x14x0.5	023 501	37	Wire bow	238 694
501	Circlip	021 022	38	Wire	237 940
502	Grooved pin 2x6	243 172	531	Screw KB 35x12	237 681
			532	Screw KB 40x8	236 227
			533	Compression spring 0.30x4.50x18.50	241 437
			534	Grooved pin 2x6	243 172



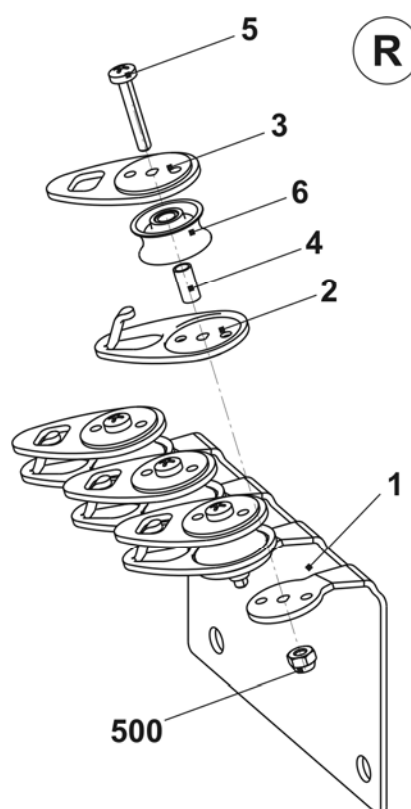
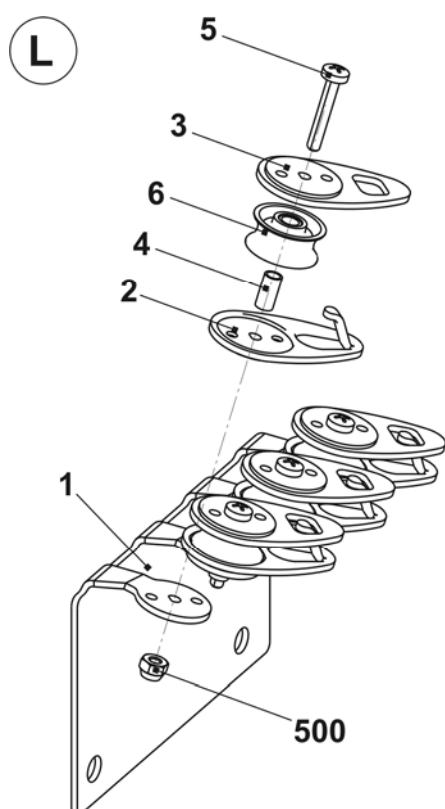
Yarn brake and yarn deflector

Pos	Designation	Ident No	Pos	Designation	Ident No
A	Yarn brake complete	244 347	B	Yarn deflector	242 011
1	Support	240 607	1	Support yarn deflector	242 009
2	Slider	240 606	2	Ceramic eyelet open	240 733
3	Brake setting	244 355			
4	Ceramic eyelet open	243 778			
500	Compression spring 0.65x20.15x14.80	241 361			
501	O-ring 11x2	241 434			



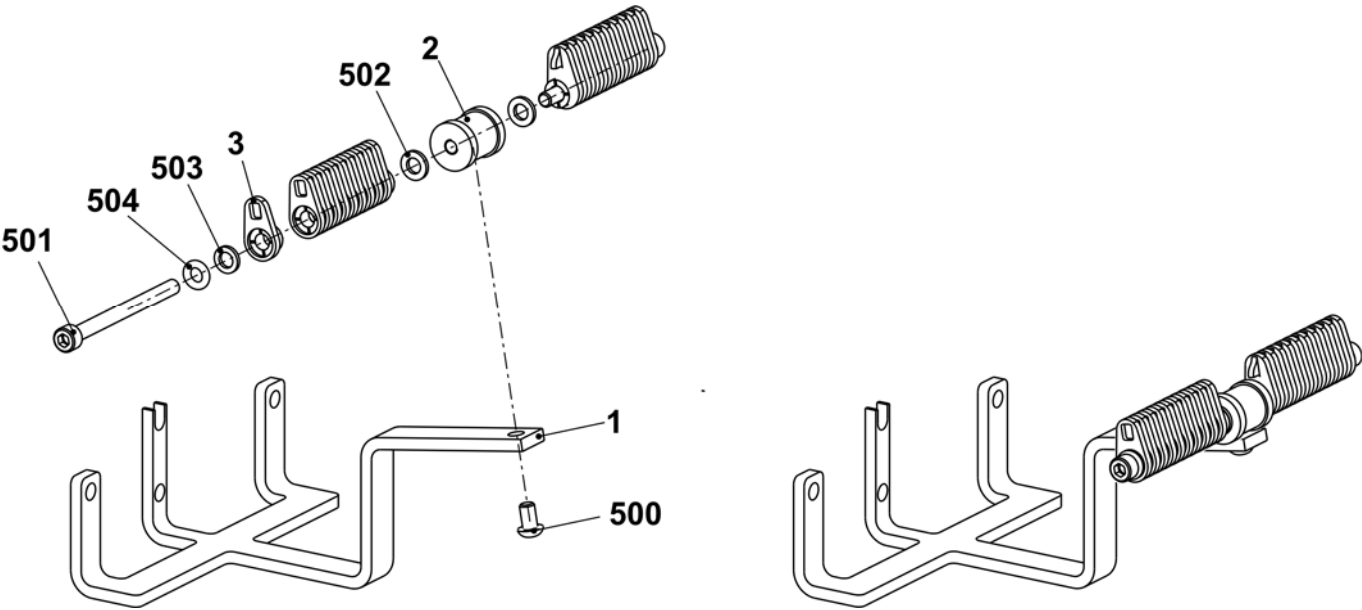
Deflector

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Deflector on the left	223 316	Σ	Deflector on the right	223 049
1	Roller support on the left	223 312	1	Roller support on the right	223 044
2	Yarn holder	217 362	2	Yarn holder	217 362
3	Yarn holder	217 363	3	Yarn holder	217 363
4	Sleeve	219 222	4	Sleeve	219 222
5	Screw	223 298	5	Screw	223 298
6	Roller deflector	218 805	6	Roller deflector	218 805
500	Hexagon nut M3-6	022 884	500	Hexagon nut M3-6	022 884



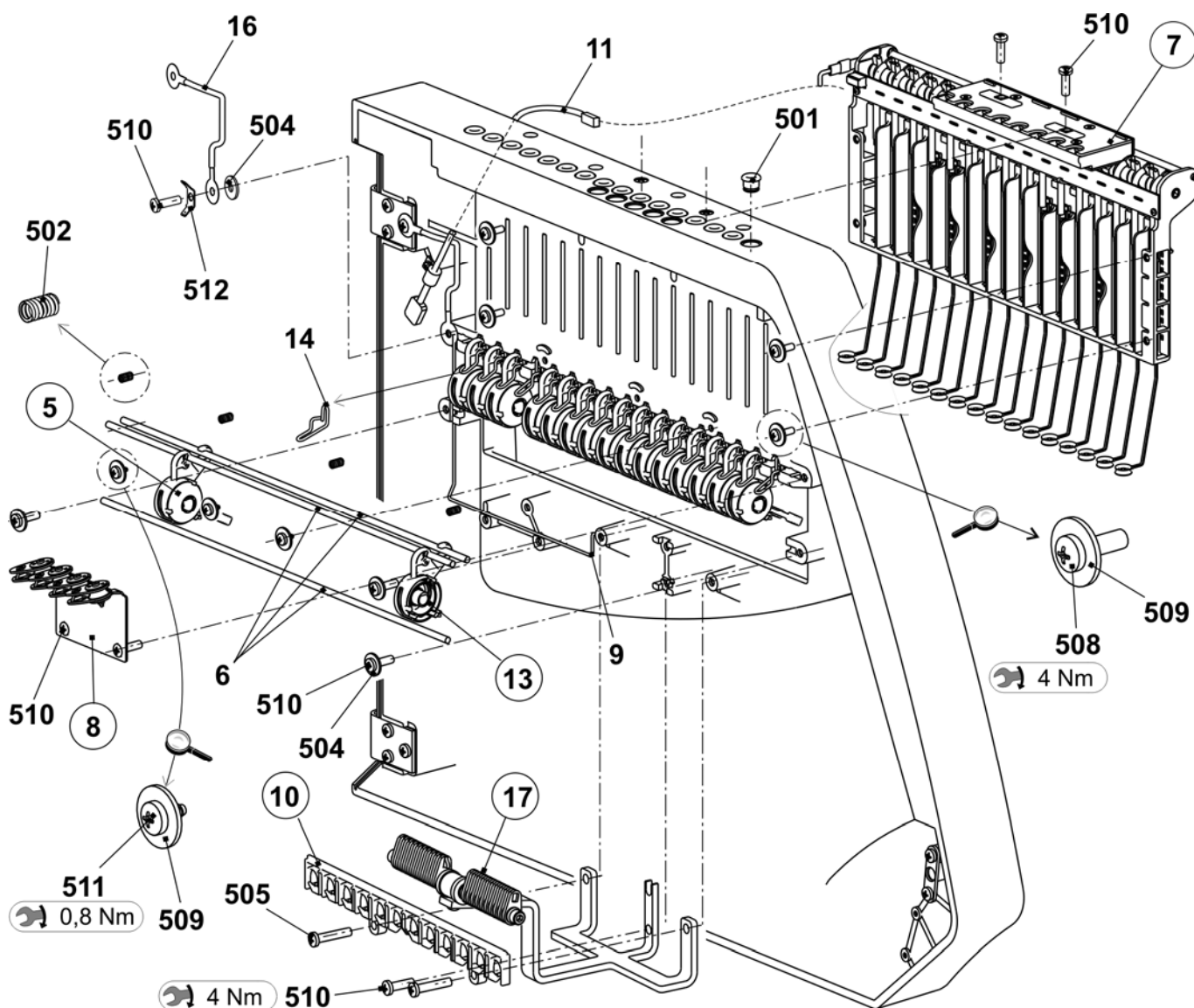
Yarn guide inside

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Yarn guide inside	250 412			
1	Holding bow	250 413	501	Cap screw M6x75	022 956
2	Bolt	214 894	502	Washer 6	022 853
3	Yarn carrier MH 6	200 127	503	Washer 6	020 881
500	Countersunk screw M6x10	023 183	504	O-ring 6x3	022 856



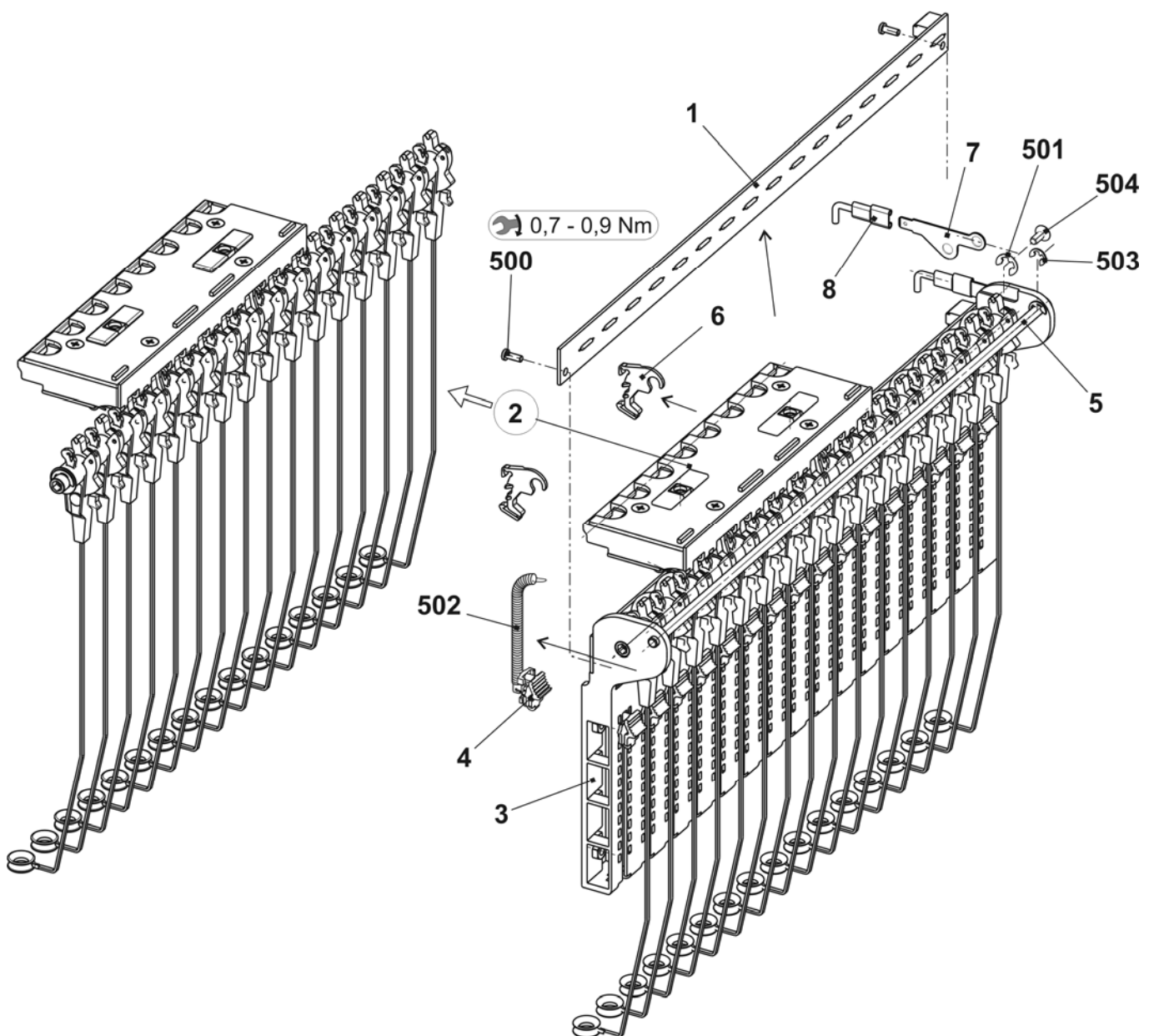
Right yarn guide

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Safety cover on the right complete		13	Yarn brake not adjustable	244 356
	E5 (E5m.4/7m.5/3,5.2/5.2)	242 390	14	Clamping bow	244 409
	E7 - E8 (E7m.8/8m.7/6.2)	242 391	16	Ground cable	244 404
	E10 - E18 (E10m.12/12m.10/7.2)	242 392	17	Yarn guide inside	250 412
5	Yarn brake complete	244 347	501	Ceramic eyelet	240 640
6	Shaft	241 318	502	Compression spring 0.90x5.40x13.60	241 360
7	Yarn tensioner on the right complete E5	242 999	504	Washer	022 537
	Yarn tensioner on the right complete E7-8	243 000	505	Screw KB 60x30	237 683
	Yarn tensioner on the right complete E10-18	243 001	508	Countersunk screw M5x16	023 187
8	Deflector on the right complete	223 049	509	Disc 503x18x1.5	020 909
9	Wire bow on the right	241 369	510	Screw KB 60x20	237 682
10	Yarn deflector	242 011	511	Sheet metal screw ST 4,8x9,5-F	242 374
11	Connection cable slack tensioner OKC	240 808	512	Flat connector 2x45° M6	243 117



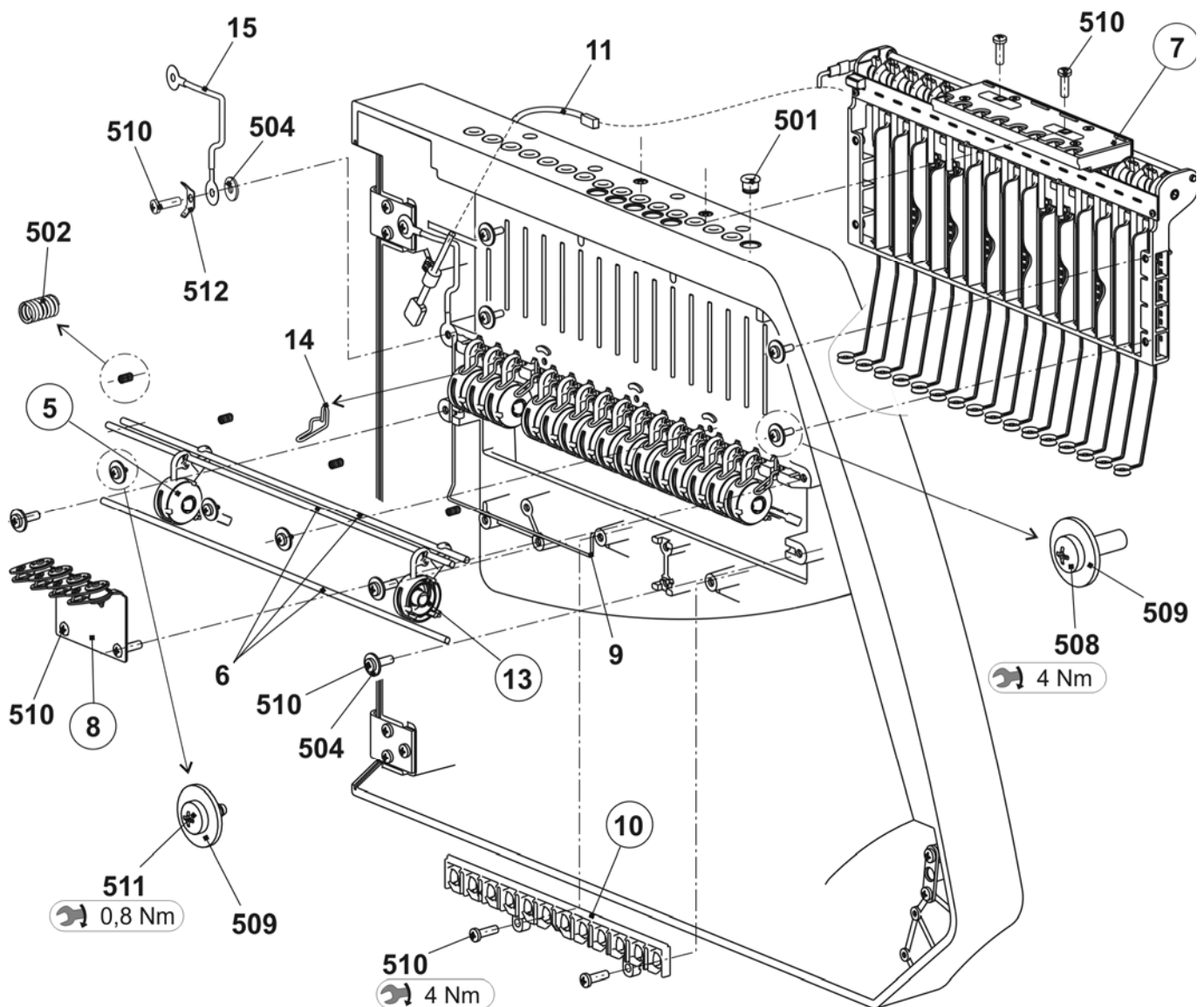
Right yarn tensioners

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Yarn tensioner on the left complete		7	Grounding sheet metal of tension axle	243 121
	E5	242 999	8	Ground cable slack tensioner OKC	243 105
	E7 – E8	243 000	500	Screw KB 30x8	236 228
	E10 – E14	243 001	501	Circlip	021 022
11	Card slack tensioner 16-fold on the right	241 346	502	Tension spring	
2	Tension axle on the right complete E5-8	241 379		Tension spring 5,05x0,55x53 (E3-E5)	023 502
	Tension axle on the right complete E10-18	241 380		Tension spring 4,9x0,5x53 (E7-E8)	023 503
3	Housing	241 367		Tension spring 4,9x0,45x53 (E10-E18)	023 504
4	Slider	241 694	503	Circlip	021 020
5	Stop point	241 368	504	Countersunk screw M4x10	241 914
6	Spacer	242 048			



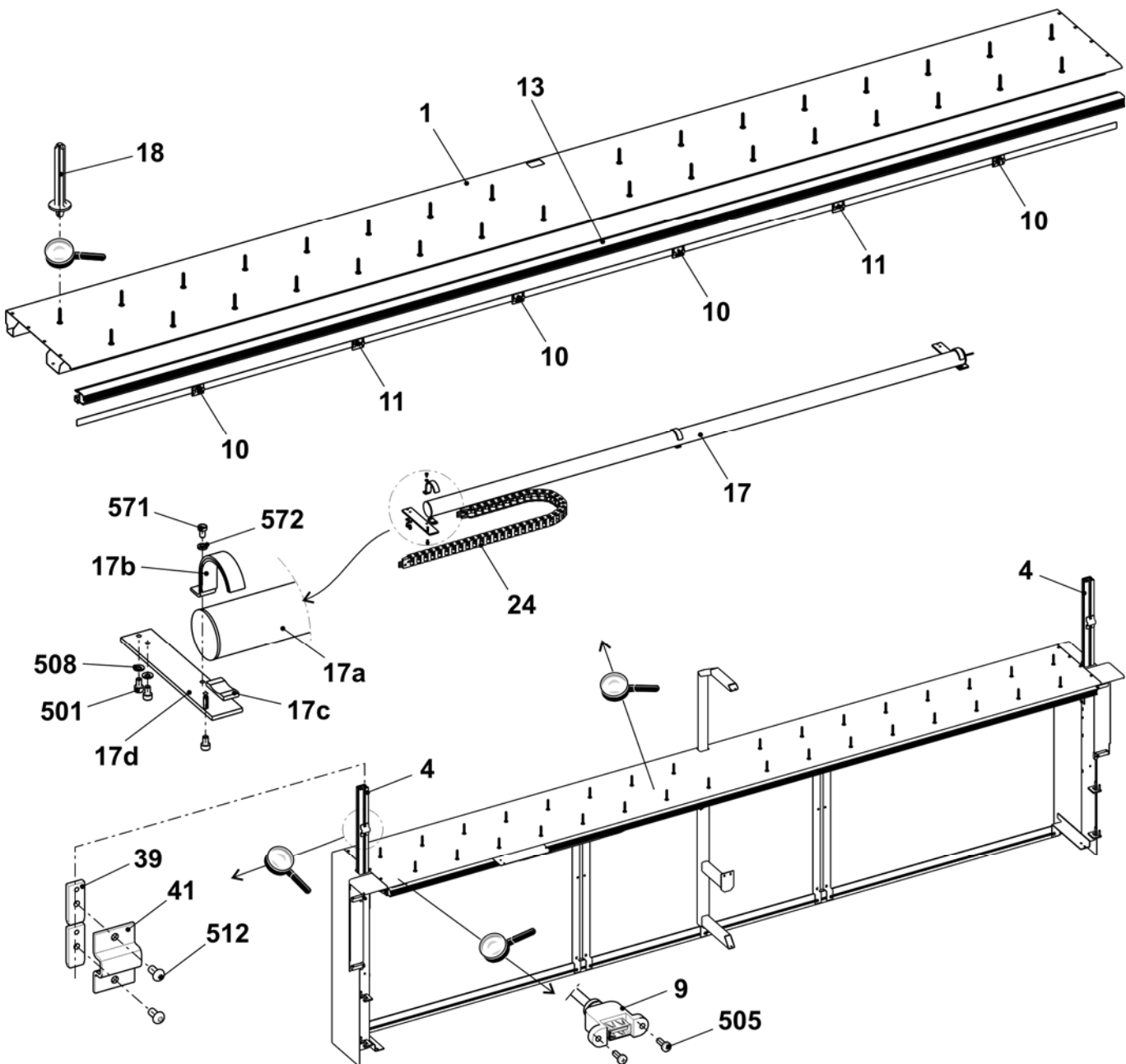
Right tension axle

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Tension axle on the right complete		3	Thread clamp AKF	238 695
	E5 - E8	243 351	31	Housing AKF	238 689
	E10 - E18	243 352	32	Cover AKF	237 926
1	Axle	243 107	33	Sheet metal at the bottom (Housing AKF)	240 719
2	Tension arm pre-assembled E5 - E8	242 770	34	Lever AKF	238 692
	Tension arm pre-assembled E10 - E14	242 771	35	Thrust piece AKF	238 690
4	Wire bow	238 694	36	Slider AKF	238 691
500	Adjusting washer 8x14x0.5	023 501	37	Wire bow	238 694
501	Circlip	021 022	38	Wire	237 940
502	Grooved pin 2x6	243 172	531	Screw KB 35x12	237 681
			532	Screw KB 40x8	236 227
			533	Compression spring 0.30x4.50x18.50	241 437
			534	Grooved pin 2x6	243 172



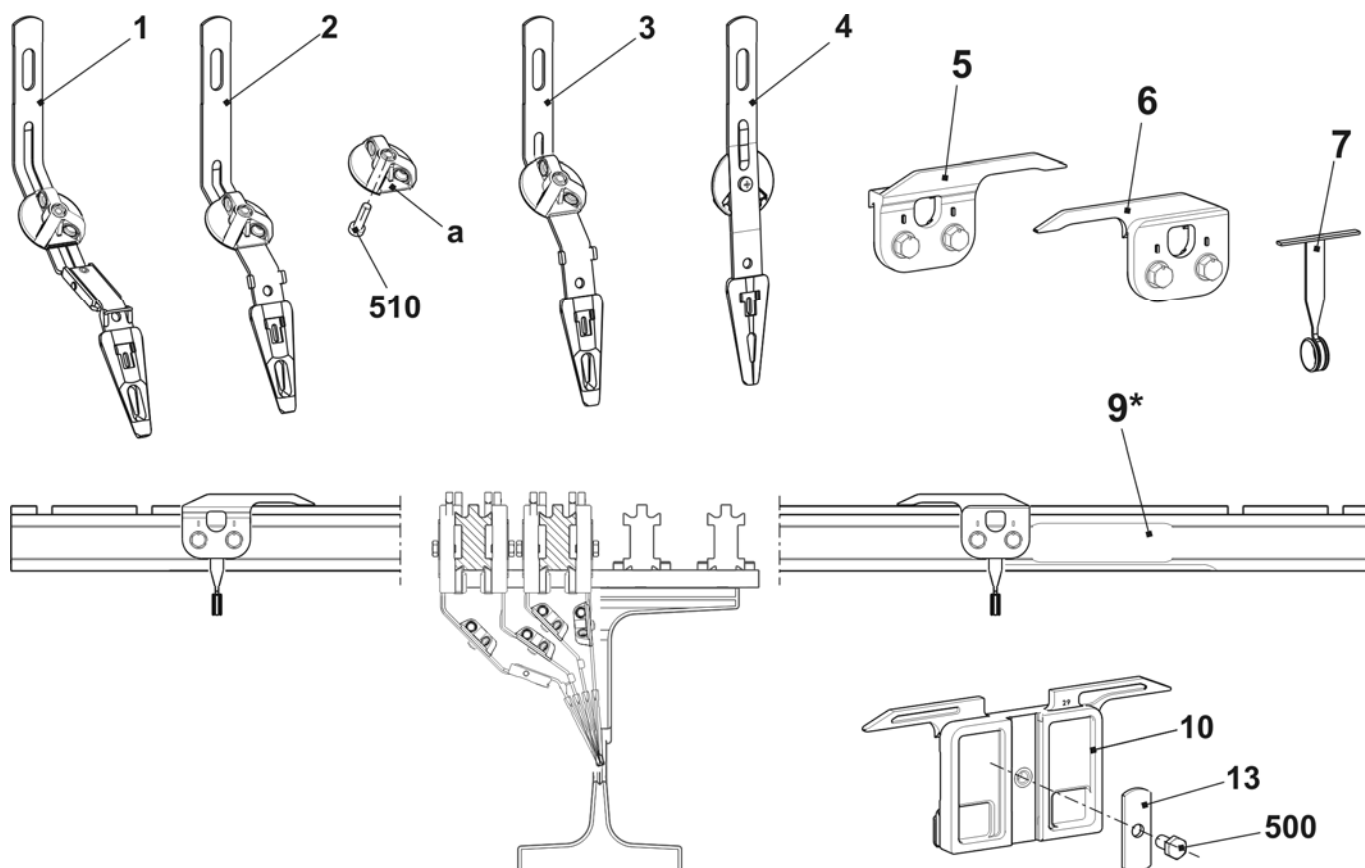
Bobbin board

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Table complete 933	242 441	17	Lamp at the top complete	220 137
1	Table	251 247	17a	Lamp long RR60V-230	212 580
4	Support element	228 594	17b	Clamping bow	209 504
9	Cable USB extension 96" okc	243 069	17c	Cellular caoutchouc 40x20	208 018
10	Magnet switch protective hood	219 983	17d	Lamp support	220 138
11	Magnet switch protective hood	220 159	571	Cap screw M6X10	022 773
13	Guide rail at the top complete	242 435	572	Serrated lock washer J6	022 385
18	Positioning pin	251 050	501	Cap screw M6X10	023 690
24	Energy chain display (38 links)	235 518	505	Countersunk screw M3x8	023 251
39	Threaded bar short	200 223	508	Washer	023 598
41	Clamp	228 583	512	Countersunk screw M8x16	023 113



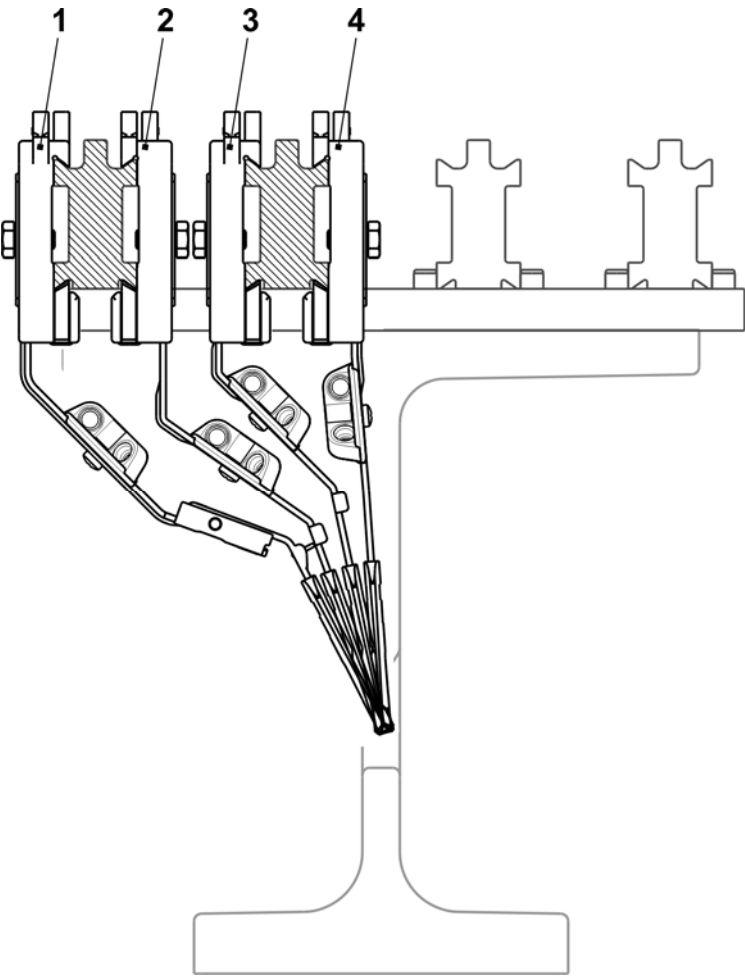
Yarn carrier and guide rails

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Yarn guide complete E5	244 003	E5, E5m.4 + E7m.5, + E3,5.2 +E5.2		
	Yarn guide complete E7 – E8	244 004	1	YC bow 1+8 complete E5	212 990
	Yarn guide complete E10 – E14	244 005	2	YC bow 2+7 complete E5	212 992
5	Limiter on the left complete	244 099	3	YC bow 3+6 complete E5	212 991
6	Limiter on the right complete	244 098	4	YC bow 4+5 complete E5	212 993
7	Slider with eyelet	230 709	E7 + E8, E6.2 + E7m8 +E8m7		
9*	Yarn carrier bar	213 172	1	YC bow 1+8 complete E7-8	212 892
10	YC carriage complete	243 062	2	YC bow 2+7 complete E7-8	212 914
13	Shim	213 035	3	YC bow 3+6 complete E7-8	212 925
500	Hexagon screw M5x10	020 351	4	YC bow 4+5 complete E7-8	212 910
			E10 - E14, E10m.12 + E12m10, E7.2		
			1	YC bow 1+8 complete E10-14	212 994
			2	YC bow 2+7 complete E10-14	212 996
			3	YC bow 3+6 complete E10-14	212 995
			4	YC bow 4+5 complete E10-14	212 997
			a	Yarn guide wheel complete	209 257
			510	Countersunk screw M3x10	023 032



Yarn carriers complete

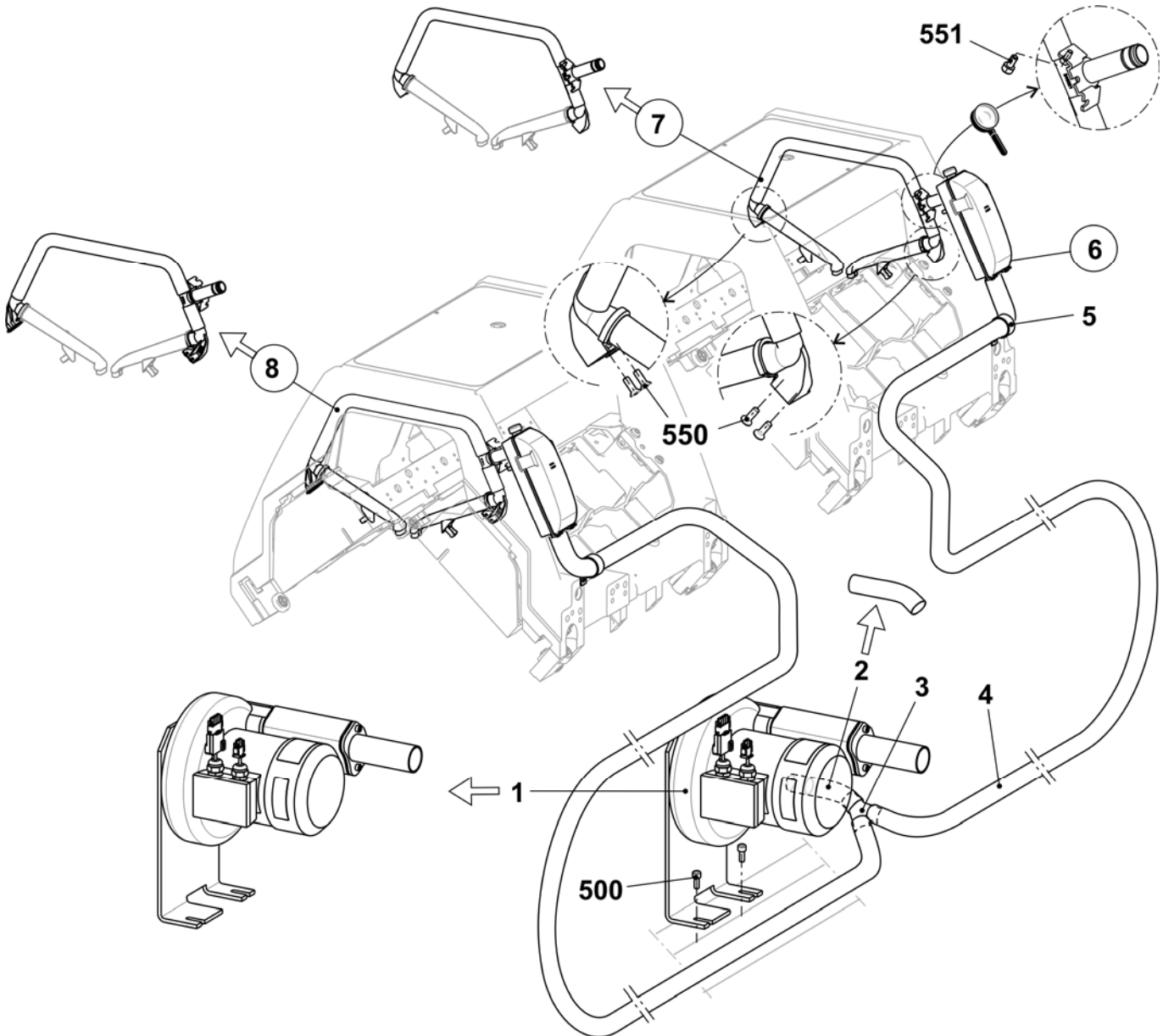
Pos	Designation	Track	Ident No	Pos	Designation	Track	Ident No
E5, E5m.4 + E7m.5, E3,5.2 +E5.2				E10 - E14, E10m.12 + E12m.10 + E7.2			
1	YC carriage complete E5	1+8	243 935	1	YC carriage complete E10-14	1+8	243 943
2	YC carriage complete E5	2+7	243 934	2	YC carriage complete E10-14	2+7	243 942
3	YC carriage complete E5	3+6	243 933	3	YC carriage complete E10-14	3+6	243 941
4	YC carriage complete E5	4+5	243 932	4	YC carriage complete E10-14	4+5	243 940
E7 + E8, E6.2 + E7m.8 + E8m.7							
1	YC carriage complete E7-8	1+8	243 939				
2	YC carriage complete E7-8	2+7	243 938				
3	YC carriage complete E7-8	3+6	243 937				
4	YC carriage complete E7-8	4+5	243 936				



Fluff absorption

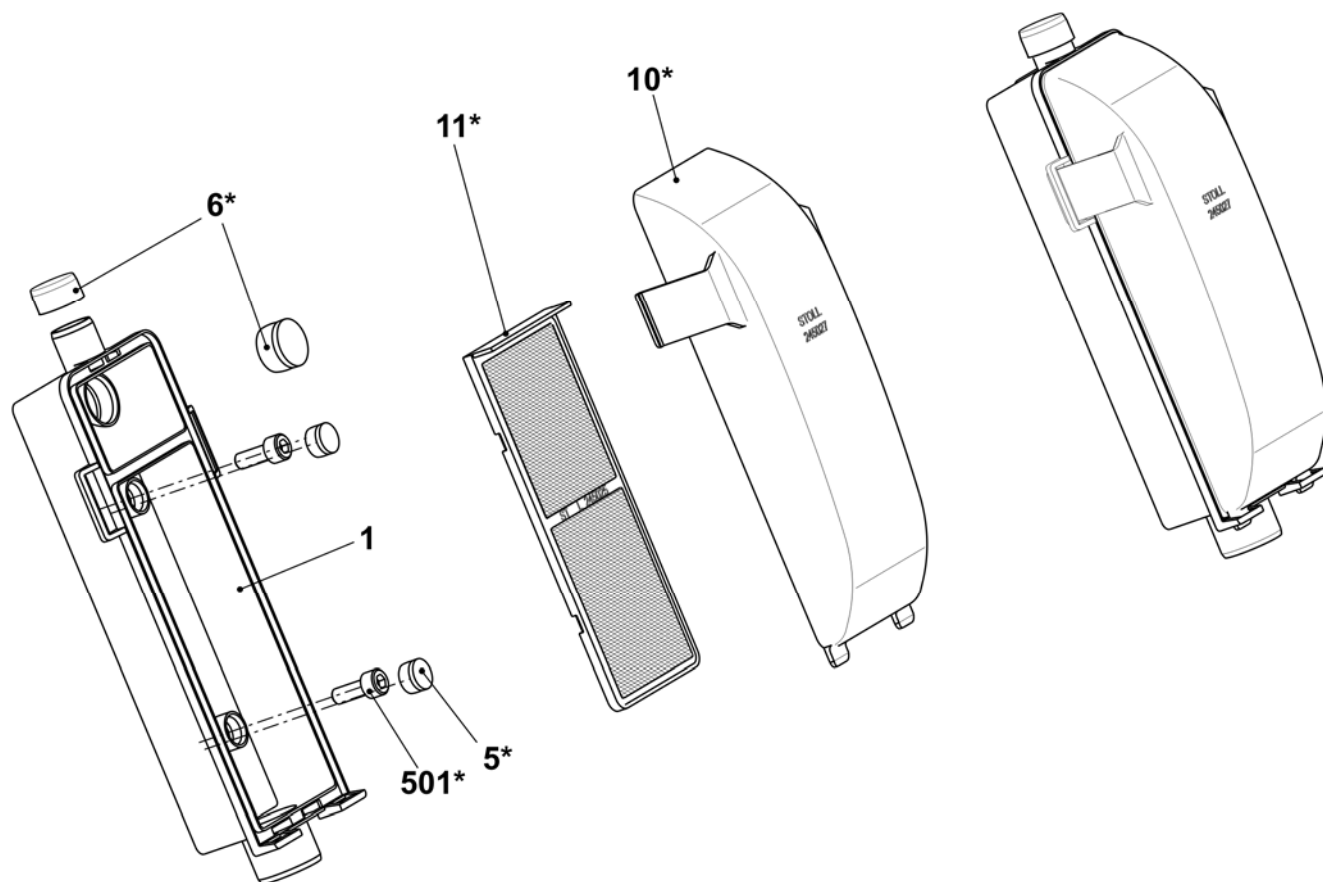
Fluff absorption

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Fluff absorption				
1	Suction fan complete	251 333	6	Lint container	245 024
2	Suction hose 29x25x150	251 348	7	Set of tubes on the left complete 922/933	251 349
3	Hose connector	245 011	8	Set of tubes on the right complete 922/933	251 350
4	Suction hose 29x25x3750	251 336	550	Countersunk head screw M4x8	251 011
5	Hose fitting	214 653	551	Cap screw M4x8	022 501



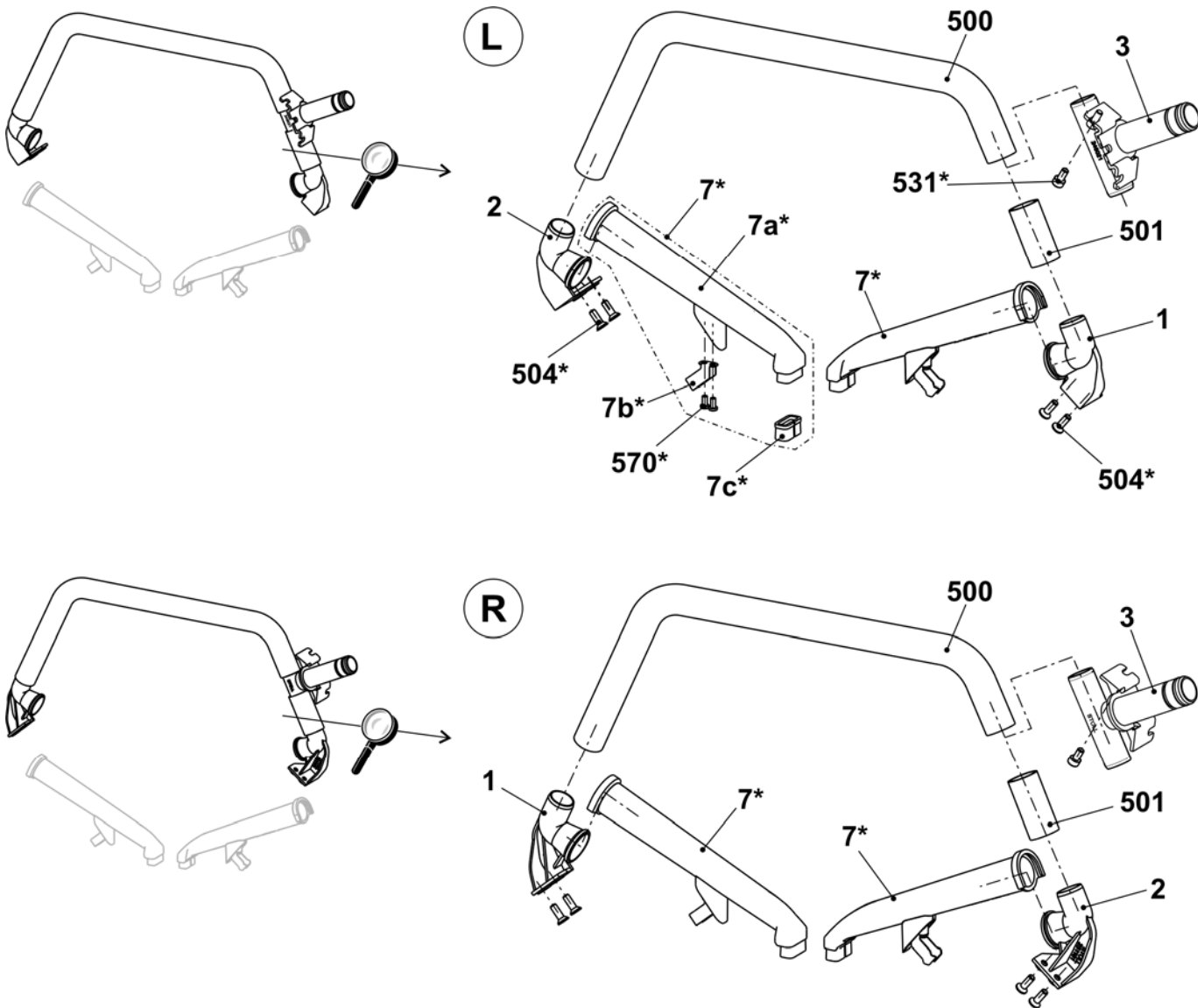
Lint container

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Lint container				
1	Lint container	245 024	10*	Cover lint container	245 027
5*	Sealing plug	245 028	11*	Filter	245 025
6*	Sealing plug	245 029	501*	Cap screw M6X10	023 690



Set of tubes left and right

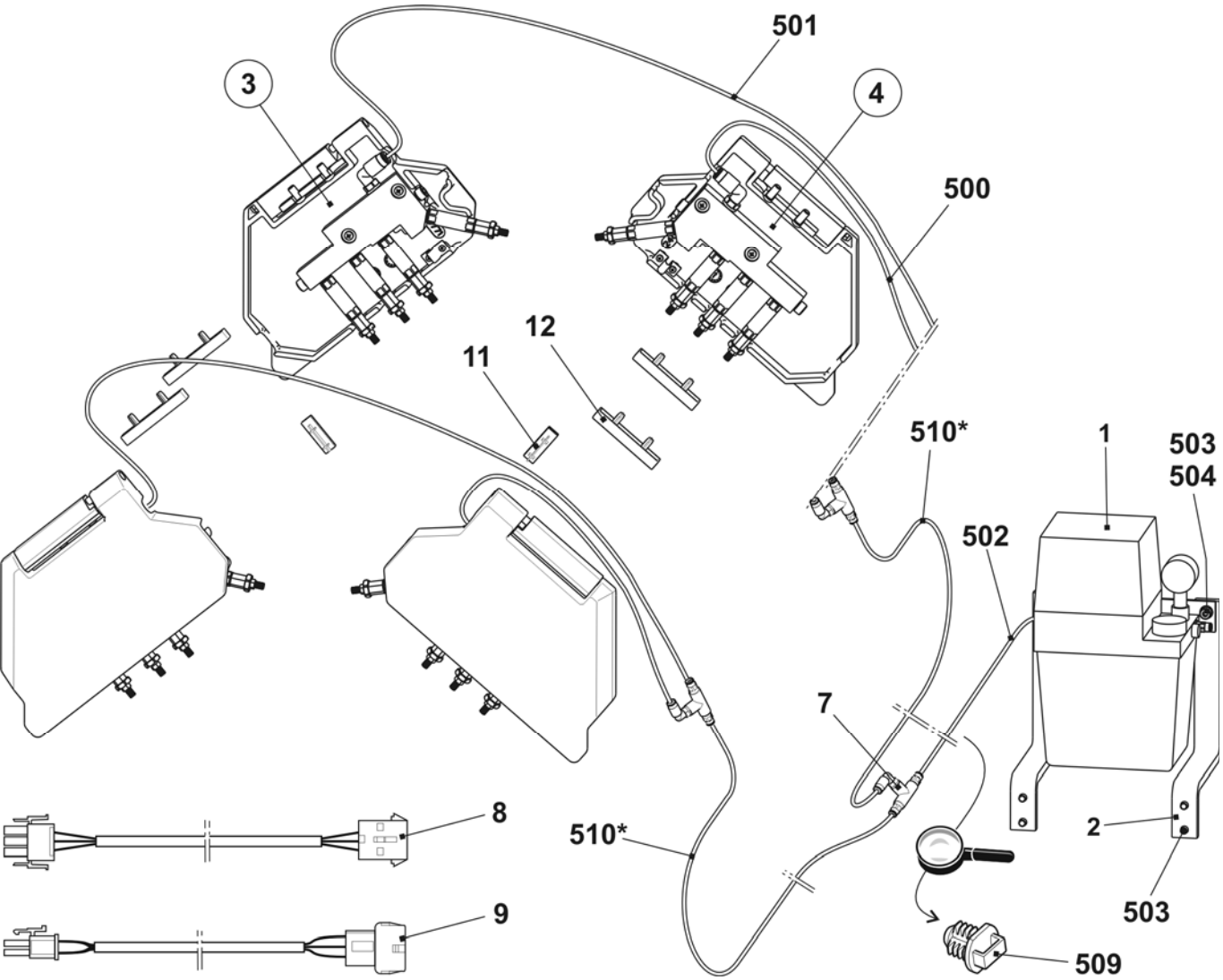
Pos	Designation	Ident No	Pos	Designation	Ident No
L	Set of tubes on the left complete 922/933	251 349	7*	Suction tube complete (E5-14)	251 310
R	Set of tubes on the right complete 922/933	251 350	7a*	Suction tube	250 120
1	Angle connection right	250 121	7b*	Bracket	250 117
2	Angle connection left	251 101	7c*	Brush (E5-14)	251 041
3	T-piece FLENT	245 021	570*	Screw KB 30x60	241 424
500	Suction hose 20x16x440	244 983	504*	Countersunk head screw M4x8	251 011
501	Suction hose 20x16x40	251 043	531*	Cap screw M4x8	022 501



Central lubrication

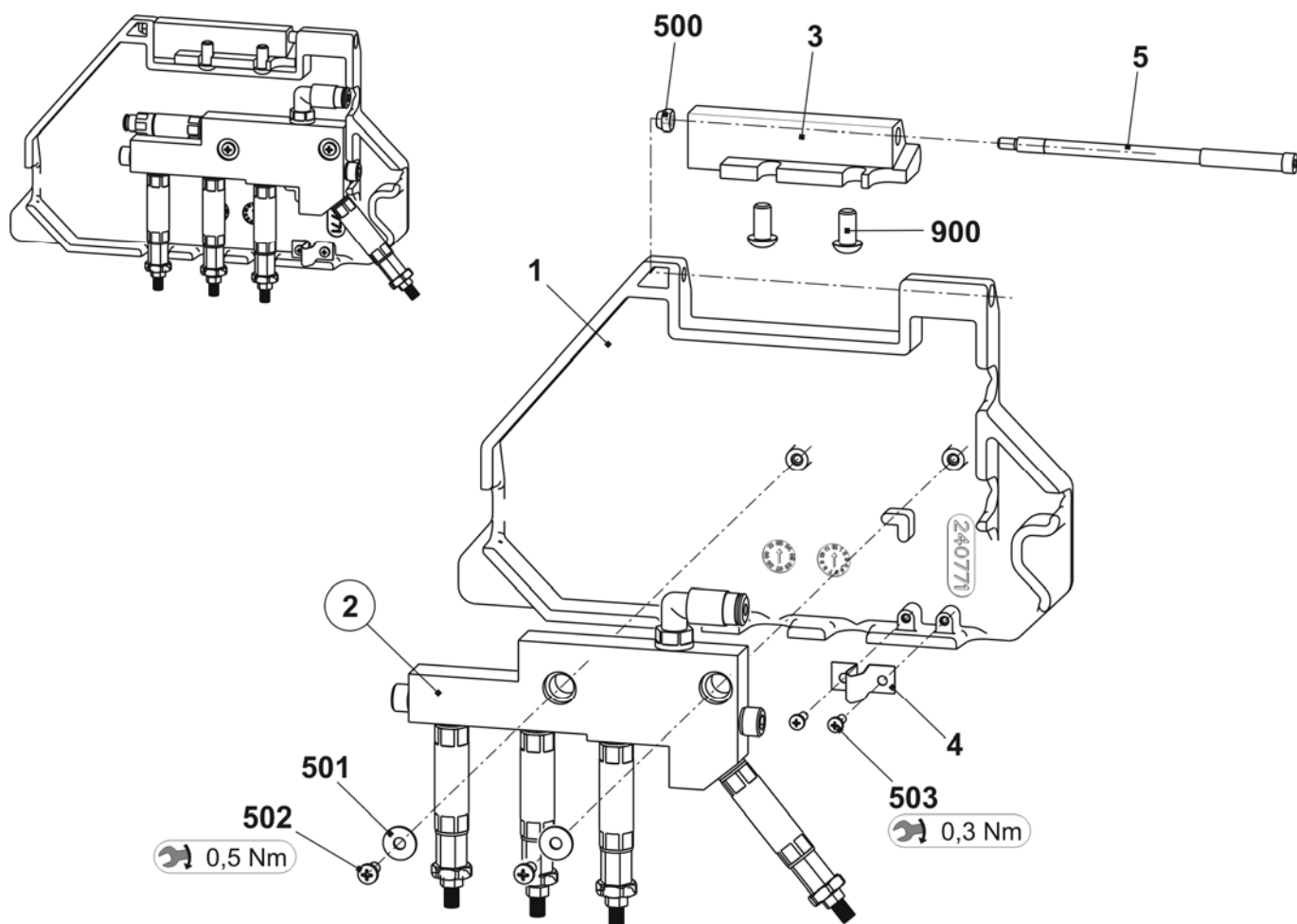
Central lubrication

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Central lubrication	242 949	12	Cover	240 778
1	Central oil lubricating pump Vogel	235 068	500	Hose D6, L = 500	235 037
2	Holding angle for oil equipment	241 636	501	Hose D6, L = 1000	235 038
3	Lubricating unit at the front complete	241 047	502	Hose D6, L = 2500	236 545
4	Lubricating unit at the rear complete	241 048	503	Cap screw M8X16	023 629
7	T-piece complete	235 039	504	Washer 8	020 883
8	Cable mains supply 50"/96" OKC	244 406	509	Mounting element	209 543
9	Cable control ZS OKC	238 704	510*	Hose D6, L = 3300	235 044
11	Sealing plug	240 777			



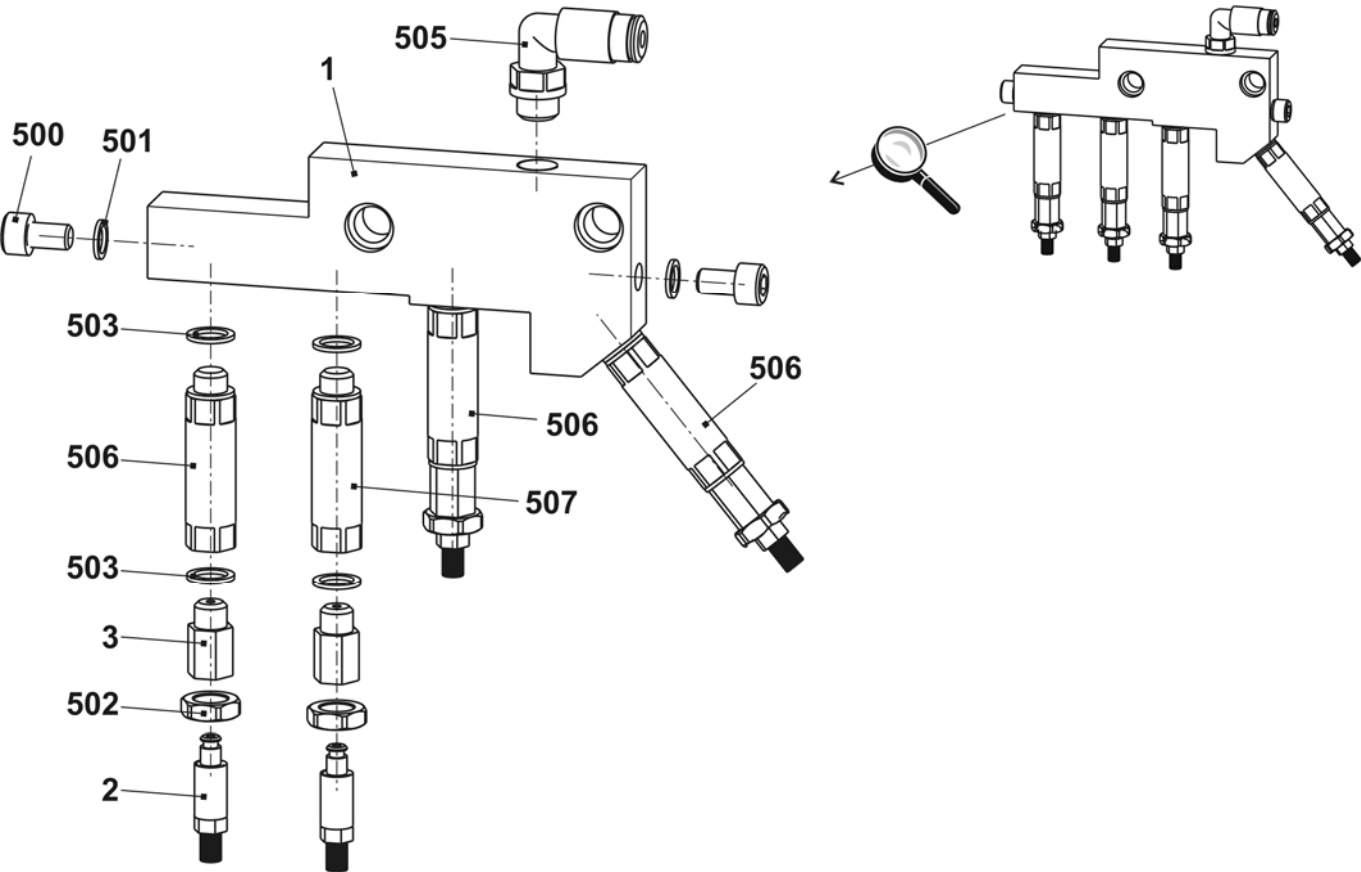
Lubricating unit at the front complete

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Lubricating unit at the front complete	241 047	500	Hexagon nut M4	023 046
1	Housing at the front	240 771	501	Washer 4	023 047
2	Distributor complete	241 046	502	Screw KB 40x8	238 089
3	Joint at the front	240 791	503	Screw KB 30x8	236 228
4	Locking plunger	235 054	900	Countersunk screw M6x12	235 935
5	Shoulder screw	240 790			



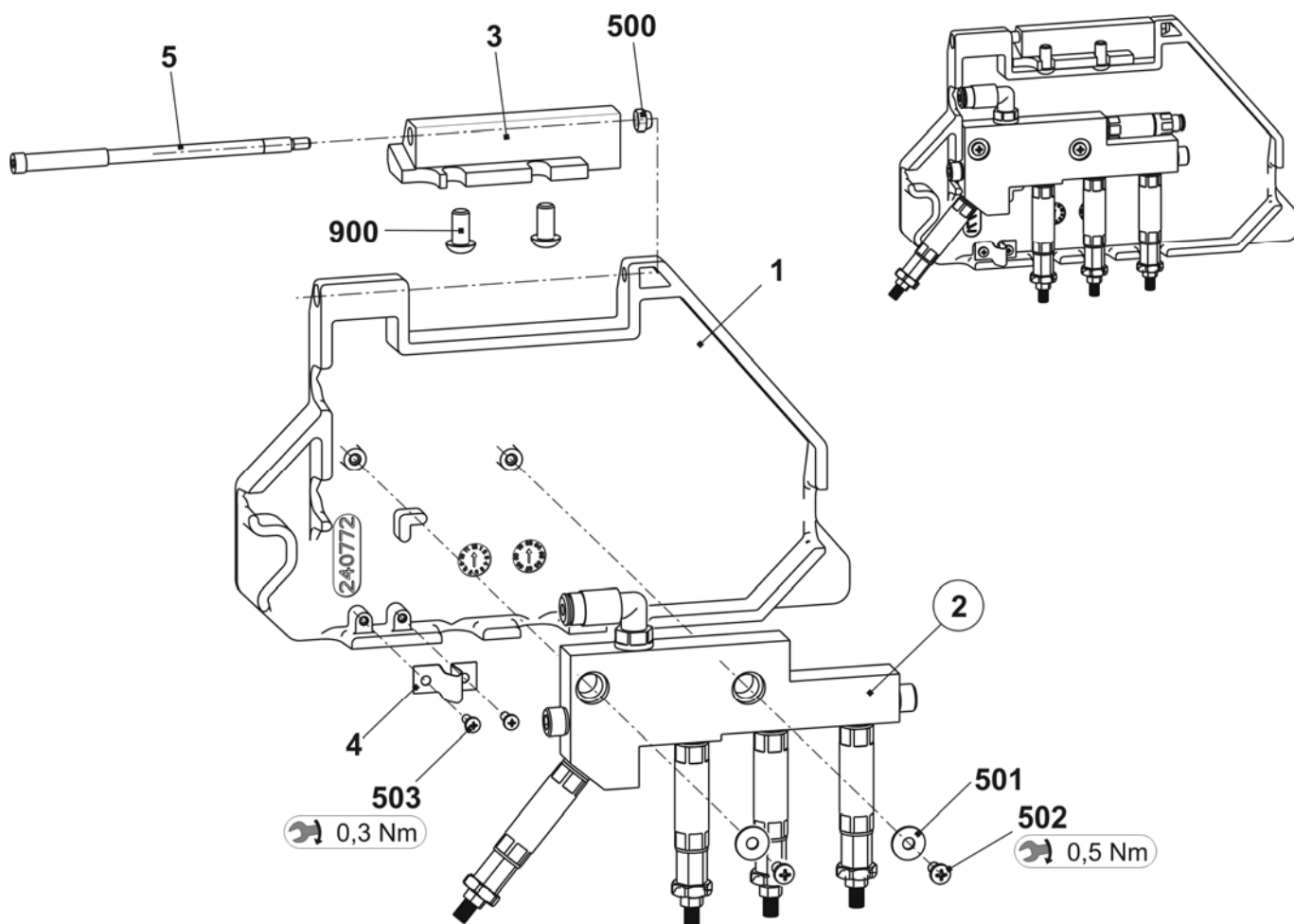
Distributor complete

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Distributor complete	241 046	502	Hexagon nut M8-04	020 856
1	Distributor	240 773	503	Sealing ring A8x11.5	023 892
2	Brush	235 050	505	Swivelling connection	235 067
3	Adapter brush	235 049	506	Dosing unit screw connection	235 079
500	Cap screw M6X10	023 690	507	Dosing unit screw connection	237 809
501	Sealing ring A6.5x9.5	237 456			



Lubricating unit at the rear complete

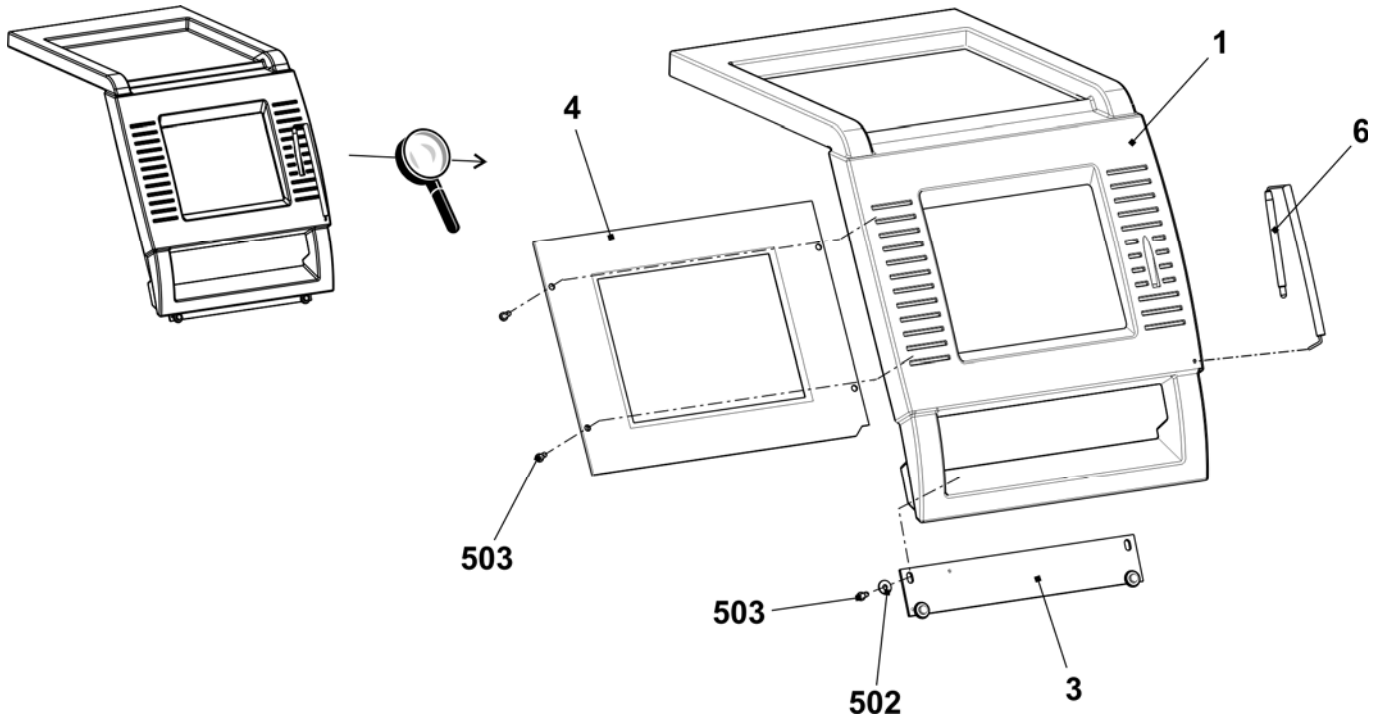
Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Lubricating unit at the rear complete	241 048	500	Hexagon nut M4	023 046
1	Housing at the rear	240 772	501	Washer 4	023 047
2	Distributor complete	241 046	502	Screw KB 40x8	238 089
3	Joint at the rear	240 792	503	Screw KB 30x8	236 228
4	Locking plunger	235 054	900	Countersunk screw M6x12	235 935
5	Shoulder screw	240 790			



Operating and control

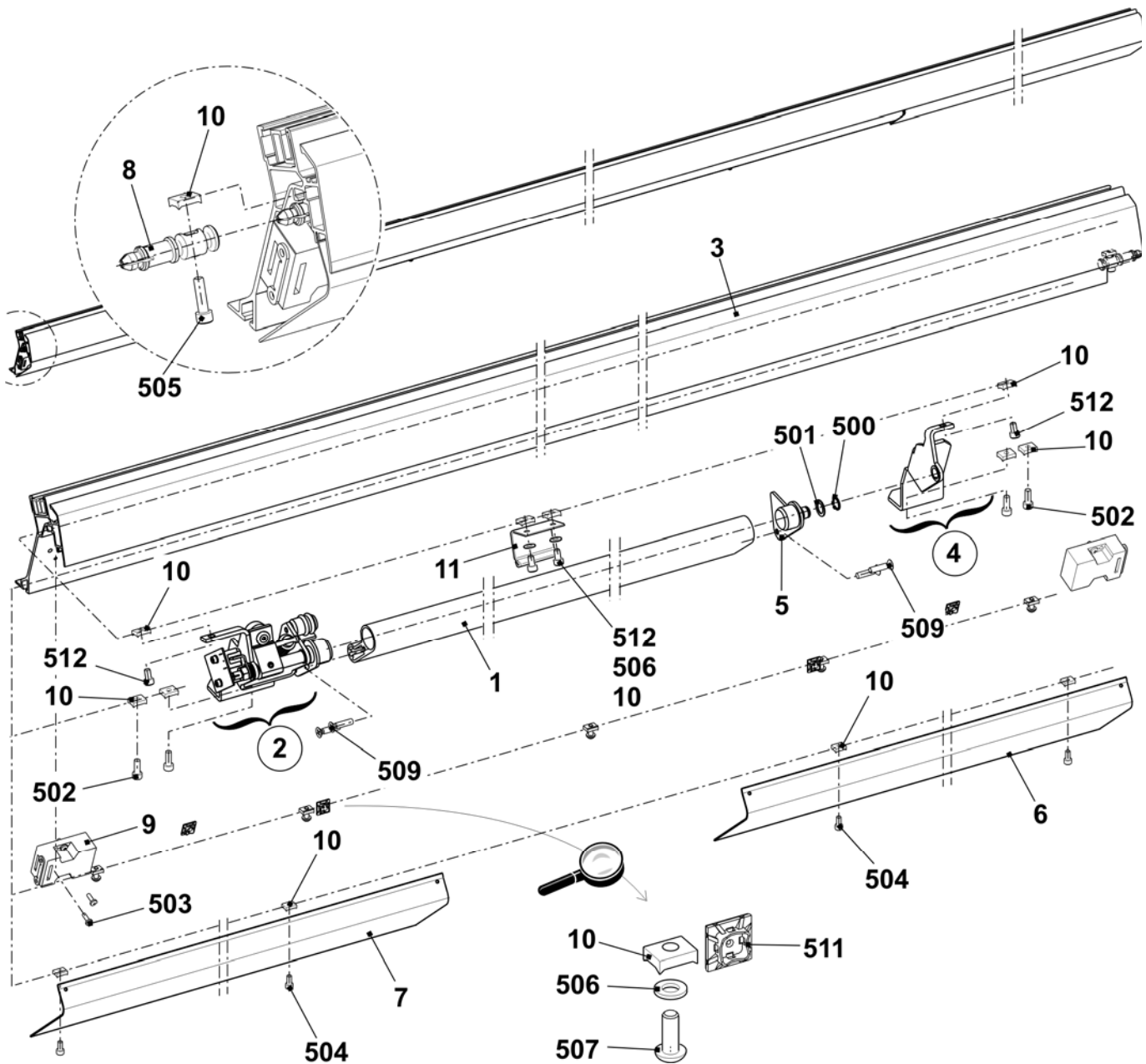
Input unit

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Input unit complete	240 194	6	Touch pen	242 812
1	Base frame	240 195	502	Washer	020 901
3	Bearing strip complete	240 198	503	Screw KB 50x12	240 359
4	Display touch screen complete	250 298			



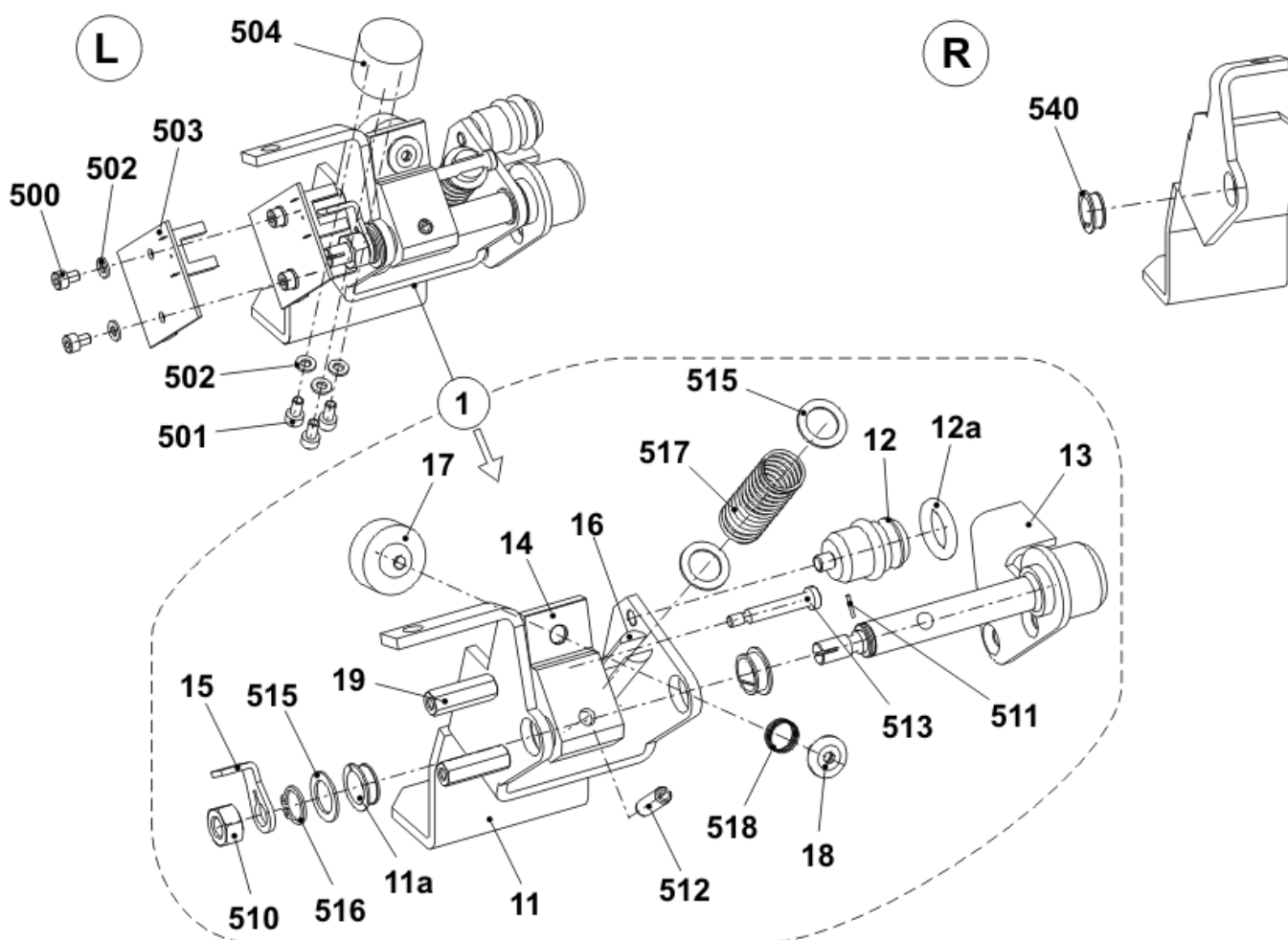
Starting unit

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Starting unit complete	241 229	500	Locking ring 12x1	020 951
1	Engaging rod	241 224	501	Adjusting washer 12x18x1	023 315
2	Bearing on the left complete	250 071	502	Cap screw M6X16	020 135
3	Guide rail bottom complete	251 228	503	Countersunk screw M5x14	023 588
4	Bearing on the right complete	240 230	504	Cap screw M6X12	020 134
5	Shaft on the right	242 888	505	Cap screw M6x20-12.9	020 136
6	Cover plate on the right	251 218	506	Washer	020 872
7	Cover plate on the left	251 219	507	Countersunk screw M6x16	023 124
8	Fixing bolt	219 107	509	Screw M6x25	023 510
9	Switch with cable to protective hoods	223 350	511	Cable tie base	243 055
10	Sliding nut (sliding block)	225 099	512	Cap screw M6X10	023 690
11	Stabilizer	244 634			



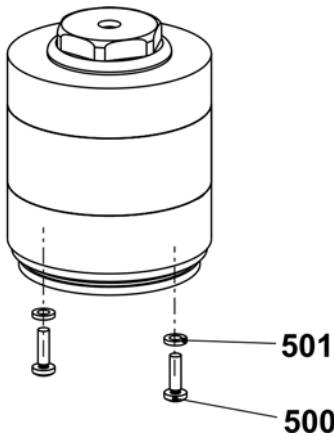
Bearing of the engaging rod

Pos	Designation	Ident No	Pos	Designation	Ident No
L	Bearing on the left complete	250 071			
1	Bearing on the left	250 070	512	Spring dowel sleeve 6x20	023 719
11	Bearing on the left	245 218	513	Shoulder screw	240 299
11a	Clip bearing MCM12-04	023 639	515	Adjusting washer 12x18x1	023 315
12	Support buffer	220 561	516	Locking ring 12x1	020 951
12a	O-ring 14x4	023 237	517	Compression spring 1.25x15x98.2	023 609
13	Shaft on the left	245 219	518	Compression spring 0,5x11x12	251 369
14	Rotor	245 223	500	Cap screw M4x6	023 067
15	Cam switch	245 220	501	Countersunk head screw M4x6	020 293
16	Spring pin	251 340	502	Adjusting washer 4x8x0.5	023 384
17	Disc	245 222	503	Card engaging okc	240 167
18	Shoulder screw	245 224	504	Magnetic clamp co-current flow	026 233
19	Distance bolt	240 287			
510	Hexagon nut M8-6	020 838	R	Bearing on the right complete	240 230
511	Dowel pin 1,5x8	236 923	540	Clip bearing MCM12-04	023 639



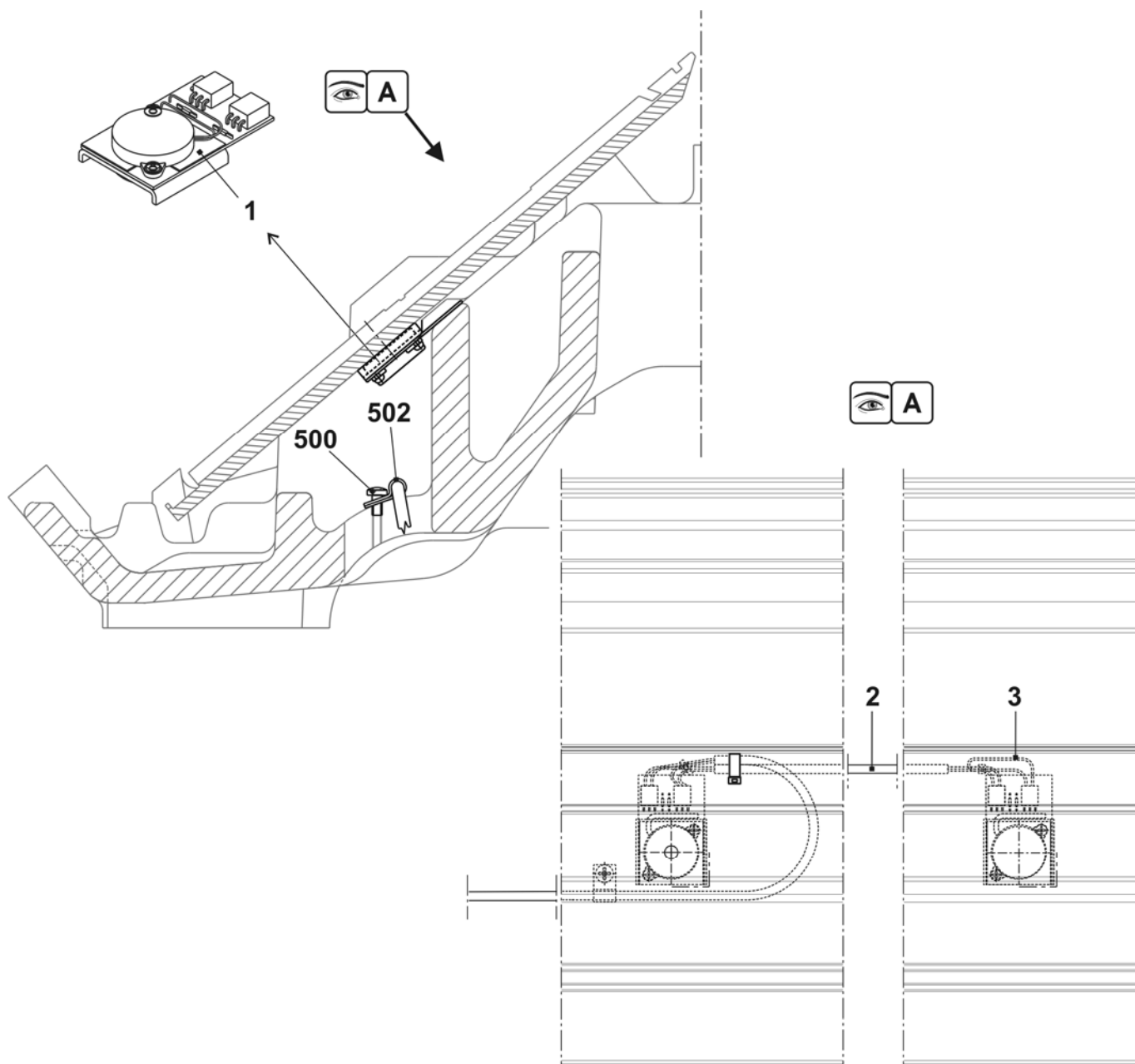
Warning light

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Warning light LED single lamp with horn	251 153			
	500	Countersunk screw M4x14			
	501	Serrated lock washer A4.3-FS			



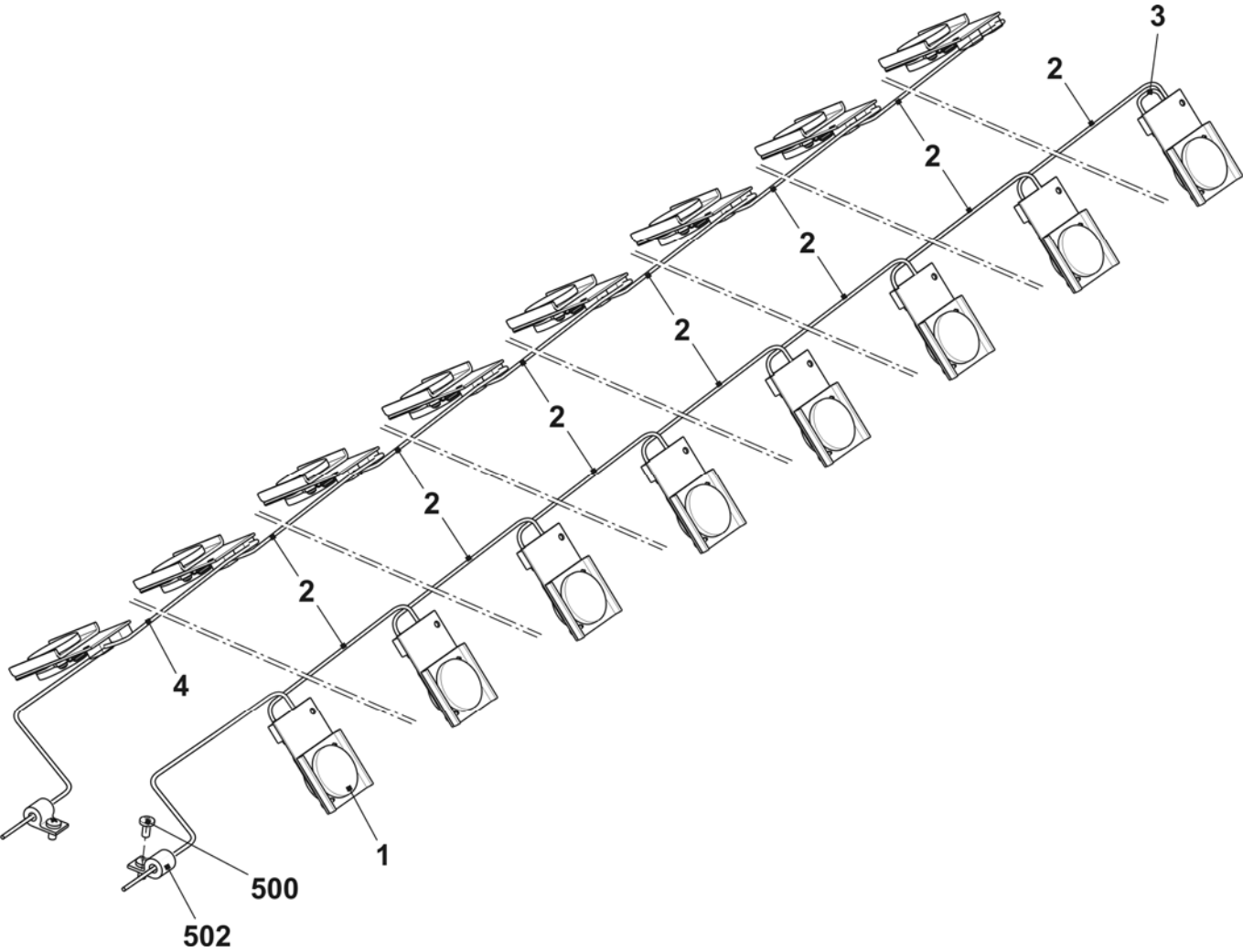
Shock stop motion (till E14)

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Shock stop motion complete	220 873	3	End plug piezo sensor	220 053
1	Shock stop motion (Piezo)	220 011	500	Countersunk screw M4x8	023 036
2	Connecting cable piezo sensor	220 063	502	Cable clip N-3B, 5 mm	210 729



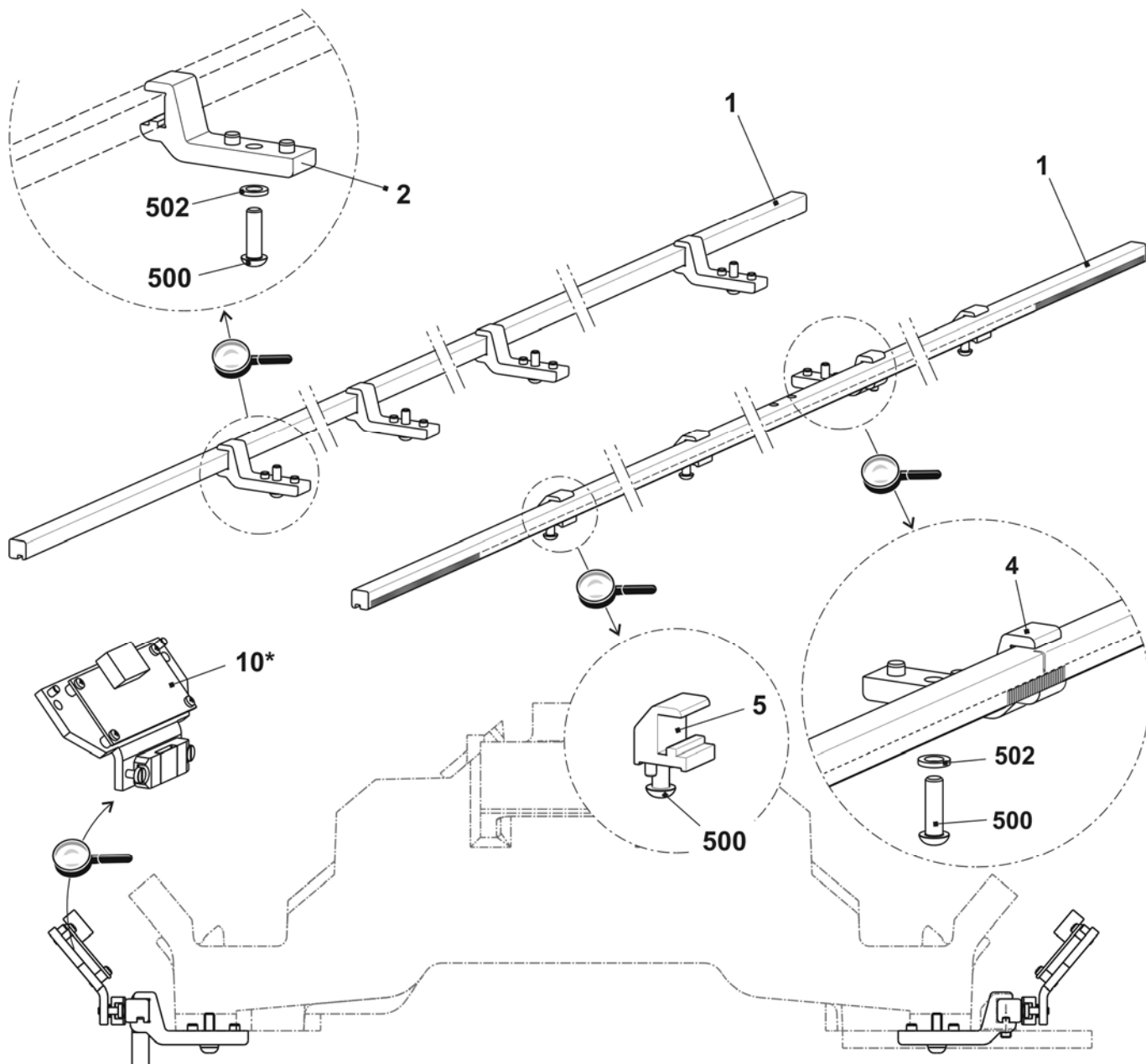
Shock stop motion E16-18

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Shock stop motion complete E16 – E18	250 387			
1	Shock stop motion (Piezo)	220 011	4	Cable piezo	250 294
2	Cable piezo	250 293	500	Countersunk screw M4x8	023 036
3	End plug piezo sensor	220 053	502	Cable clip N-3B, 5 mm	210 729



Measuring device

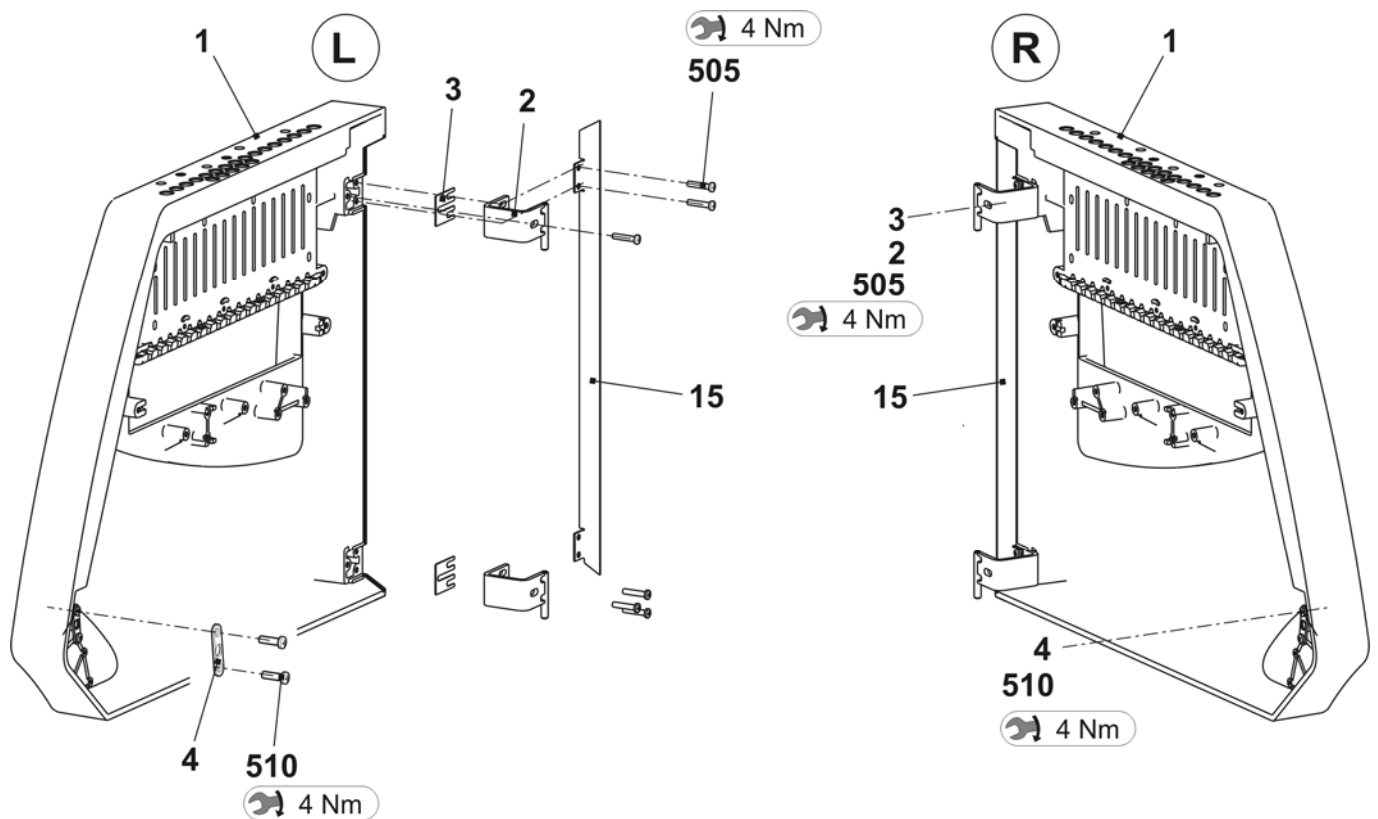
Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Measuring device	242 972	5	Clamp	212 203
1	Measuring bar	242 359	500	Countersunk screw	241 603
2	Guidance	212 210	502	Washer	020 881
4	Guidance	240 672	10*	Measuring head complete	240 562



Protective units

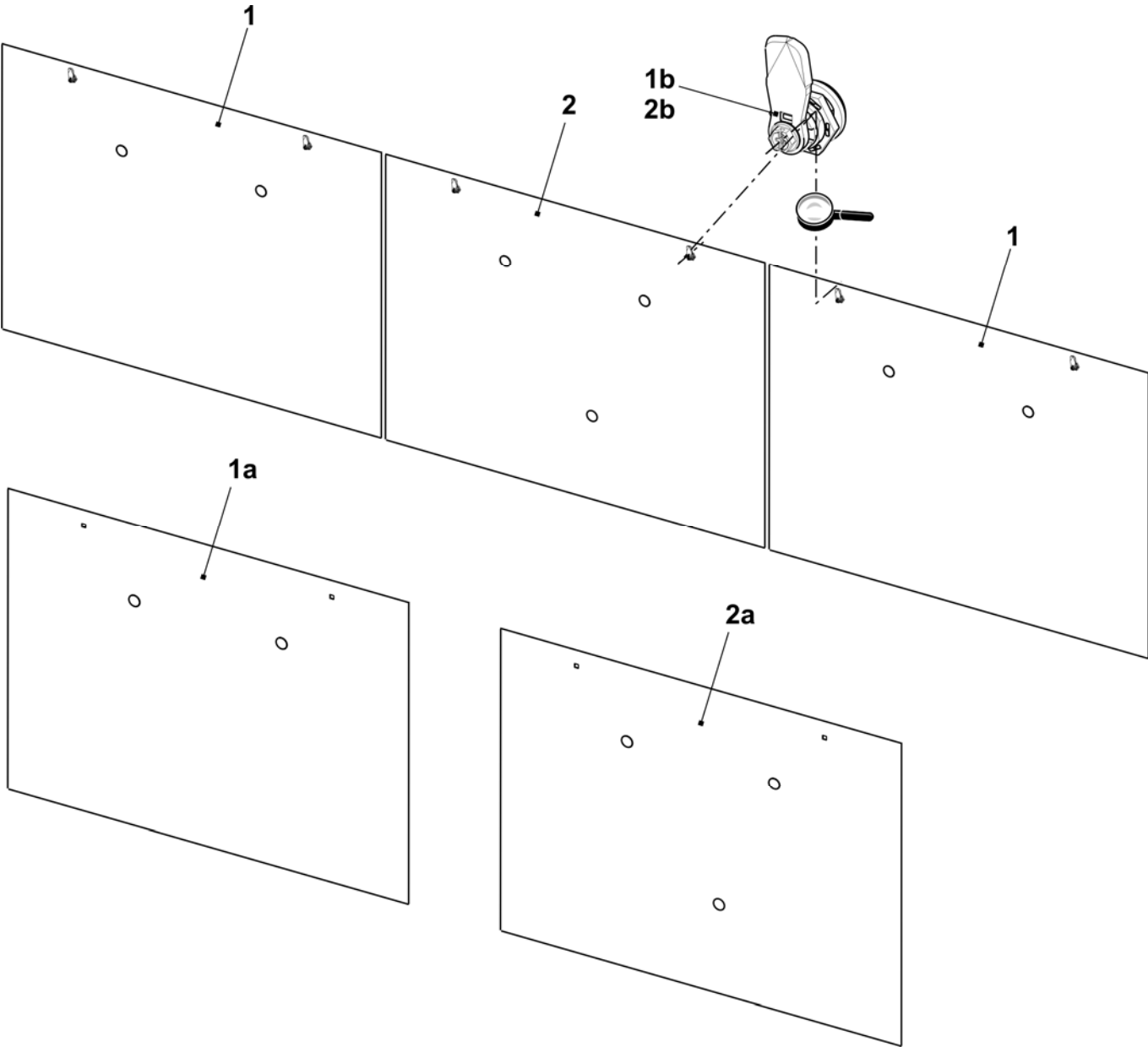
Lateral safety covers

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Safety cover on the left		Σ	Safety cover on the right	
	E3 - E5	242 387		E3 - E5	242 390
	E7 - E8	242 388		E7 - E8	242 391
	E10 - E14	242 389		E10 - E14	242 392
1	Safety cover on the left	250 562	1	Safety cover on the right	250 563
2	Hinge left safety cover	242 751	2	Hinge right safety cover	242 752
3	Plate	224 717	15	Cover at left safety cover	242 750
4	Locking plate	219 748	505	Screw KB 60x30	237 683
15	Cover at left safety cover	242 749	510	Screw KB 60x20	237 682



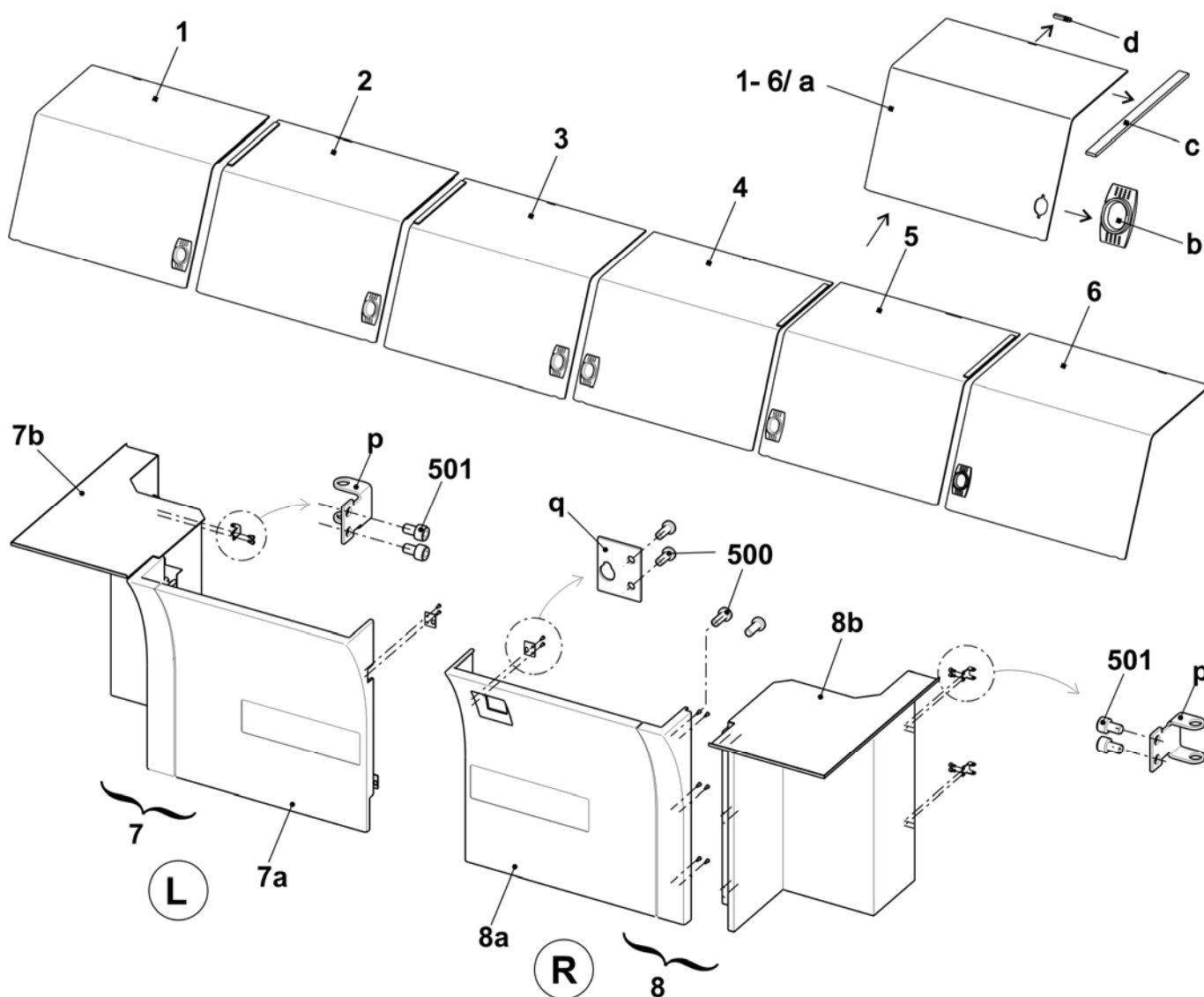
Rear panel

Pos	Designation	Ident No	Pos	Designation	Ident No
1	Panelling at the rear complete	251 567	2	Panelling at the rear complete	251 573
	1a Panelling at the rear	251 566		2a Panelling at the rear	251 572
	1b Safety sash fastener complete	243 052		2b Safety sash fastener complete	243 052



Panelling

Pos	Designation	Ident No	Pos	Designation	Ident No
1	Cover 1 (complete)	251 292	5	Cover 5 (complete)	251 296
	1a Cover 1	251 286	5a	Cover 5	251 290
2	Cover 2 (complete)	251 293	6	Cover 6 (complete)	251 297
	2a Cover 2	251 287	6a	Cover 6	251 291
3	Cover 3 (complete)	251 294	a	Inlet type handle	251 376
	3a Cover 3	251 288	b	Stripper	219 393
4	Cover 4 (complete)	251 295	c	Magnet	204 666
	4a Cover 4	251 289			
7	Control unit panelling on the left complete	251 161	8	Control unit panelling on the right complete	251 160
	7a Control unit panelling on the left	251 188	8a	Control unit panelling on the right	251 189
	7b Side part on the left	251 162	8b	Side part on the right	251 163
7/8	p Hinge	250 273	7/8	500 Screw KB 50x12	240 359
	q Lug	240 412		501 Cap screw M6X10	023 690



Electrical Equipment

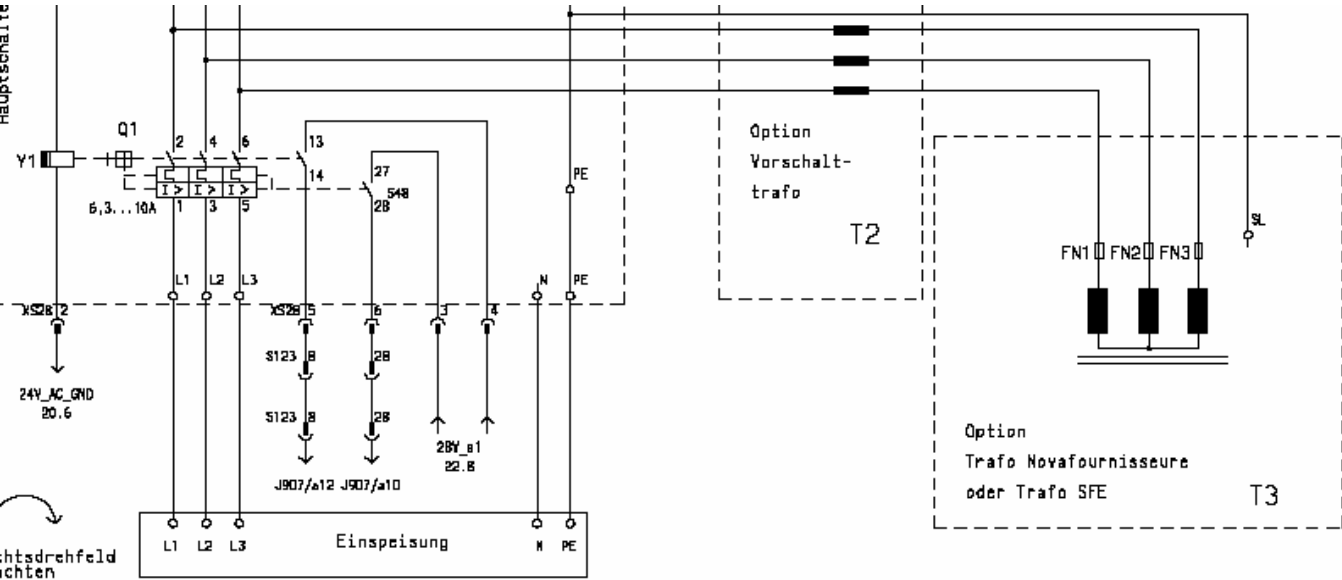
Fuses

	Designation	Ident No
	Fuse 1.0A F 5x20	008 748
	Fuse 3.15A T/440V 6.3x32	025 261
	Fuse 10A T/440V 6.3x32	025 258
	Fuse 2.5A T/440V 6.3x32	217 465
	Fuse 1.6A T/440V 6.3x32	236 229
	Fuse 6.3A T/440V 6.3x32	026 809
	Fuse 8A T/440V 6.3x32	241 866
	Fuse 12.5A T/440V 6.3x32	232 367

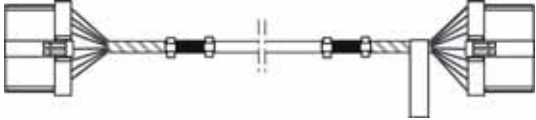
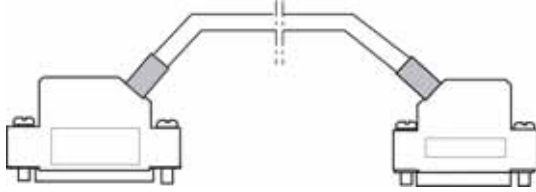
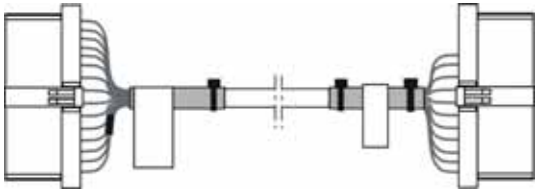
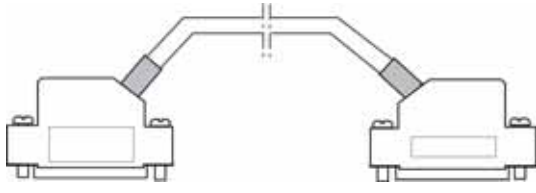
Circuit diagram as PDF

Designation	Ident No	Identification
Circuit diagram 219 German	243 991	DE
Circuit diagram 219 English	243 991	GB
Circuit diagram 219 Chinese	243 991	CN

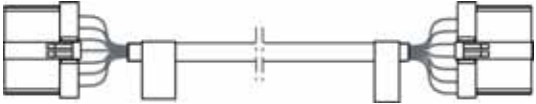
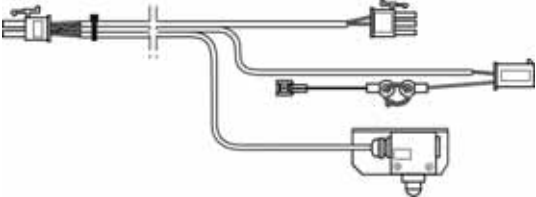
You will find the circuit diagram 219 on the CMS documentation DVD with the identification number 242283



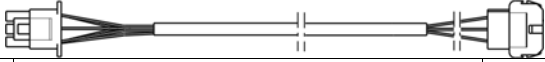
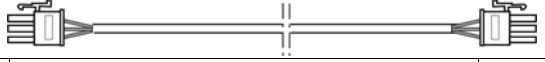
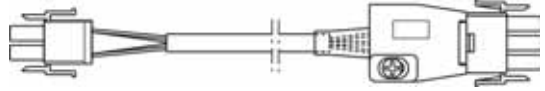
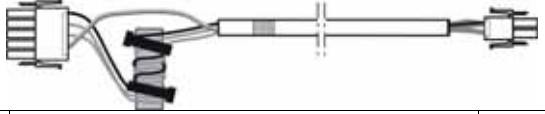
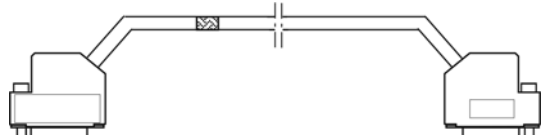
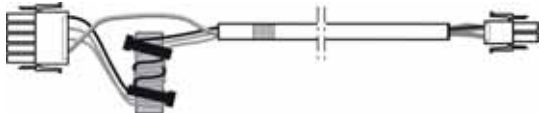
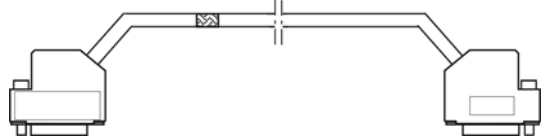
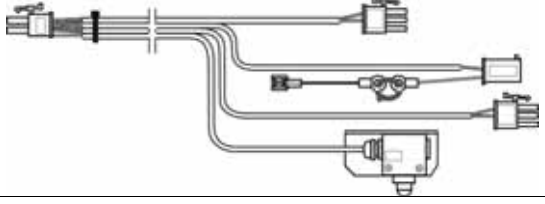
Trailing cable

Designation	Ident No	Designation	Ident No
Cable impulse giver at the rear on the left XL138, 933 OKC	242 703	Cable SM at the rear on the left XL321, 933 OKC	242 709
Cable impulse giver at the front on the left XL139, 933 OKC	242 704	Cable SM at the front on the left XL323, 933 OKC	242 711
Cable impulse giver at the rear on the right XL136, 933 OKC	242 705	Cable SM at the rear on the right XL325, 933 OKC	242 713
Cable impulse giver at the front on the right XL137, 933 OKC	242 706	Cable SM at the front on the right XL327, 933 OKC	242 715
			
Cable yarn carrier on the left, 9XX OKC	242 707	Cable signal at the rear on the left XL322, 933 OKC	242 710
Cable yarn carrier on the right, 9XX OKC	242 708	Cable signal at the front on the left XL324, 933 OKC	242 712
		Cable signal at the rear on the right XL326, 933 OKC	242 714
		Cable signal at the front on the right XL328, 933 OKC	242 716
			

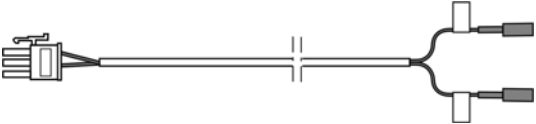
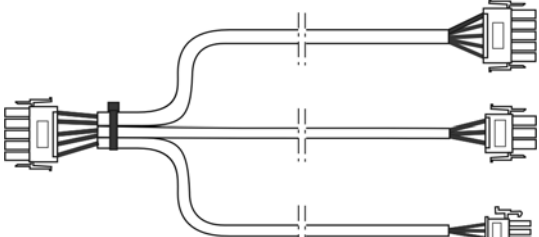
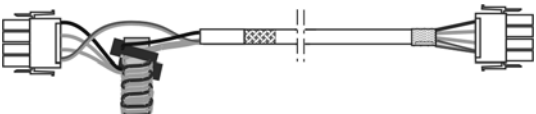
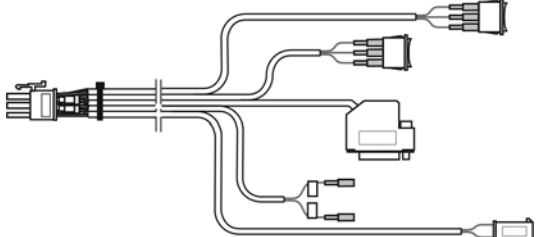
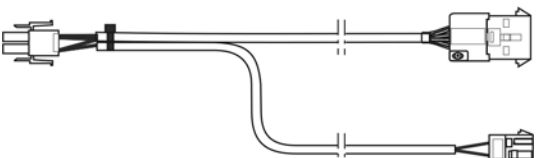
Loom of cables 1

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Loom of cables 1, 96“ OKC	242 502			
1	Cable engaging 9XX OKC	242 505	2	Cable mains supply FKE lamp 9XX OKC	242 506
					
3	Cable protective unit on the left 9XX OKC	242 507			
					

Loom of cables 2

Pos	Designation	Ident No	Pos	Designation	Ident No
?	Loom of cables 2, 96" OKC	242 503			
1	Cable motor HIAB pressure roller 96" OKC	242 508	2	Cable impulse giver pressure roller 96" OKC	242 509
					
3	Cable limit switch racking 9XX OKC	242 510	4	Cable ventilator drive 9XX OKC	242 511
					
5	Cable feed wheel on the right 96" OKC	242 512	6	Cable drive motor 9XX OKC	242 513
					
7	Cable resolver drive 9XX OKC	242 514	8	Cable racking motor 9XX OKC	242 515
					
9	Cable resolver racking 9XX OKC	242 516	10	Cable protective unit on the right 96" OKC	242 517
					
11	Cable fabric sensor OKC	242 518			
					

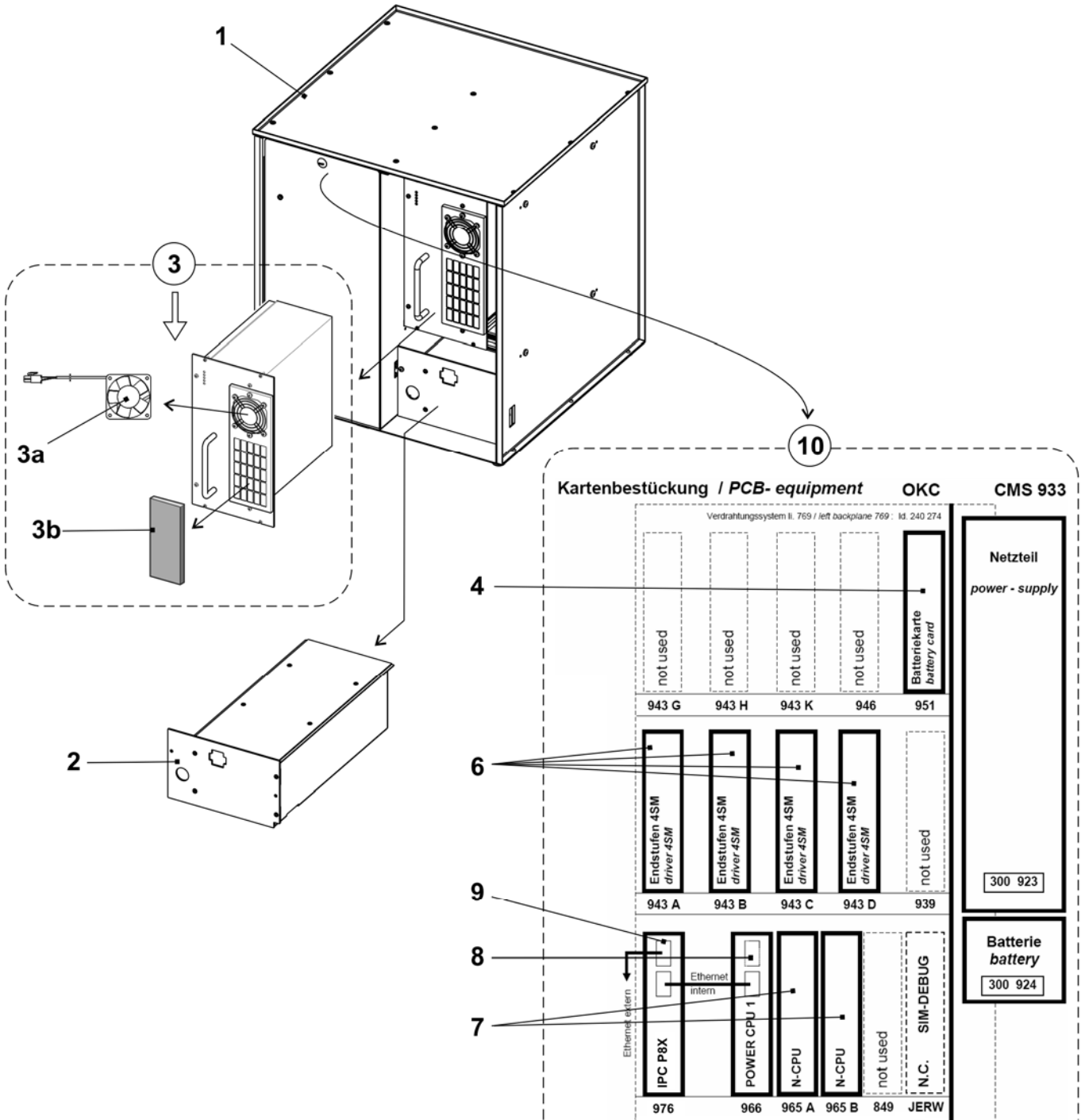
Loom of cables 3

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Loom of cables 3, 96" OKC	242 504			
1	Cable CAN 96"	242 522	2	Cable electro 96" OKC	242 523
					
3	Cable feed wheel on the left 96" OKC	242 524	4	Cable motor of HAAB OKC	242 521
					
5	Cable switch of HAAB OKC	242 520	6	Cable power supply WAZ/F 96" OKC	242 765
					
7	Cable power supply Servo 96" OKC	242 766	8	Cable power supply of mains supply 96" OKC	242 767
					
9	Cable power supply lighting 96" OKC	242 768	10	Cable motor HIAB 96" OKC	242 525
					
11	Cable impulse giver HIAB 96" OKC	242 526	12	Cable impulse giver HAAB 96" OKC	242 519
					
13	Cable power supply FLENT 96" OKC	242 769			
					

Control electronics

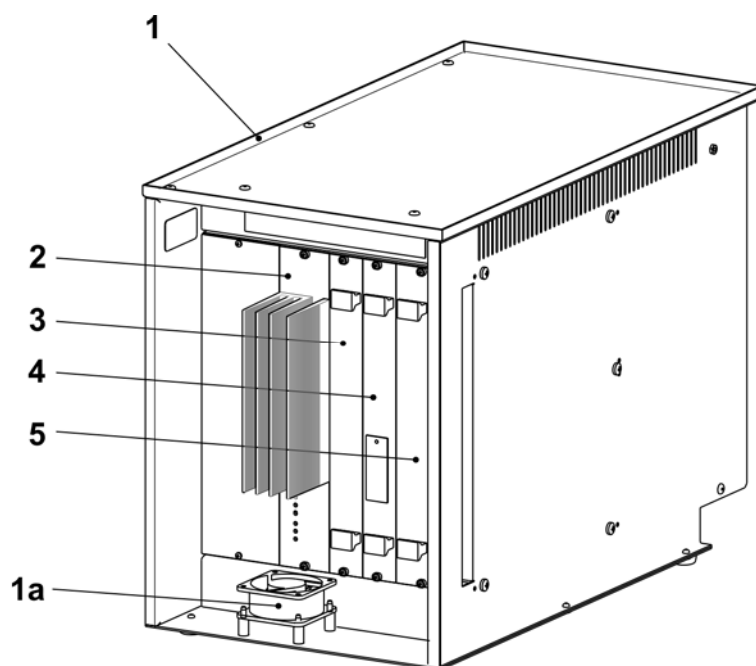
Left control cabinet

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Control unit on the left complete 933 okc	240 761	4	Card Battery OKC	300 951
1	Control unit on the left without equipment	240 757	6	Card amplifier 4SM 7TE	300 943
2	Battery plug-in unit	300 924	7	Card N-CPU 432	300 965
3	Power supply CG54	300 923	8	Card Power CPU1	300 966
3a	Ventilator power supply	239 305	9	Card IPC P8X OKC	300 976
3b	Filter mat CG54	239 350	10	Adhesive label of card equipment	242 483

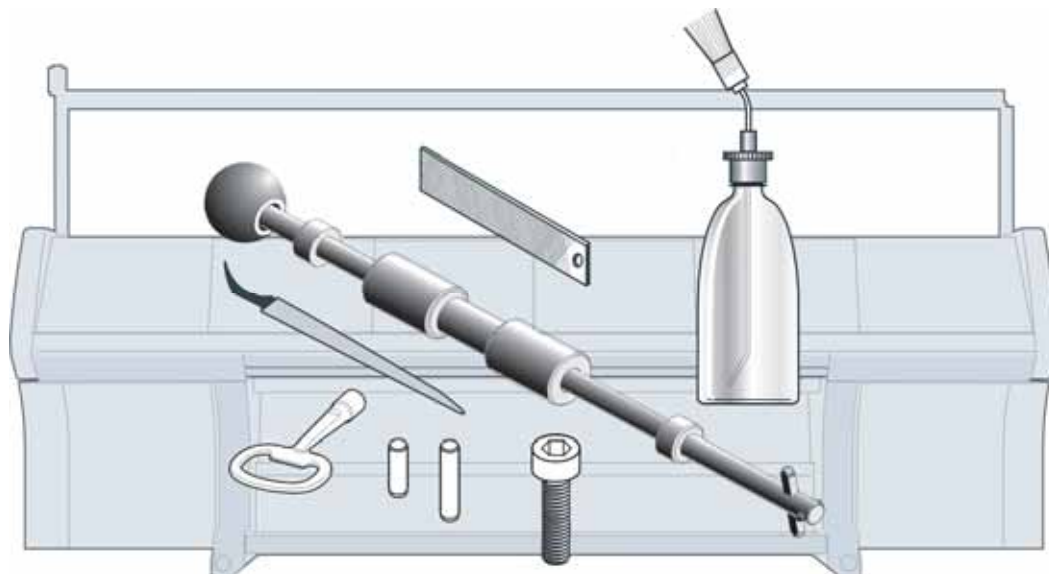


Right control cabinet

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Control unit on the right complete OKC	238 738	3	Card relay OKC	300 953
1	Control unit on the right without equipment	238 737	4	Card CWAZ	300 929
1a	Axial fan Servo05	229 059	5	Card CWAZ capacitor	300 936
2	Card servo 6	301 000	6	Adhesive label KB on the right 933	240 810



Available accessories

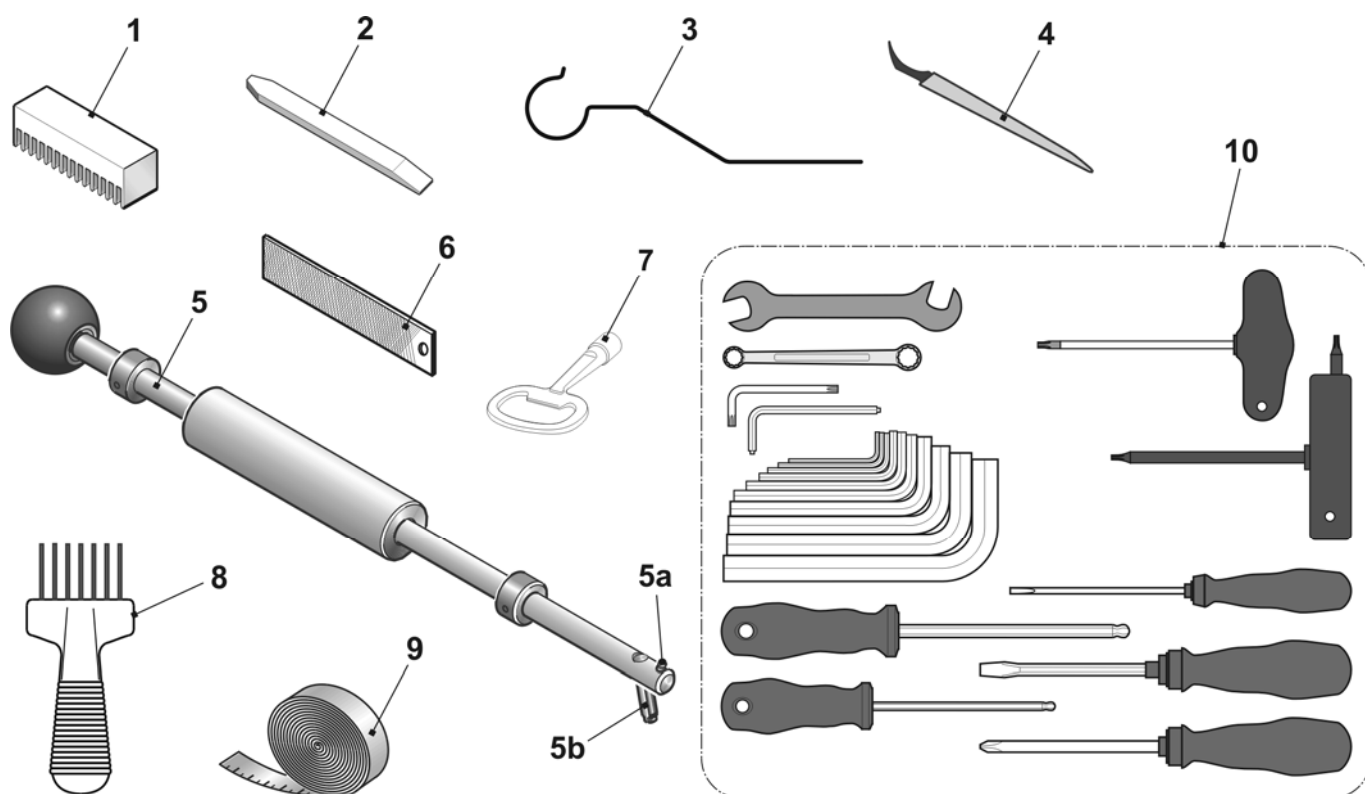


You can order the following tools, lubricants and expendables.

The following list is not conform with the scope of supply of the knitting machine.

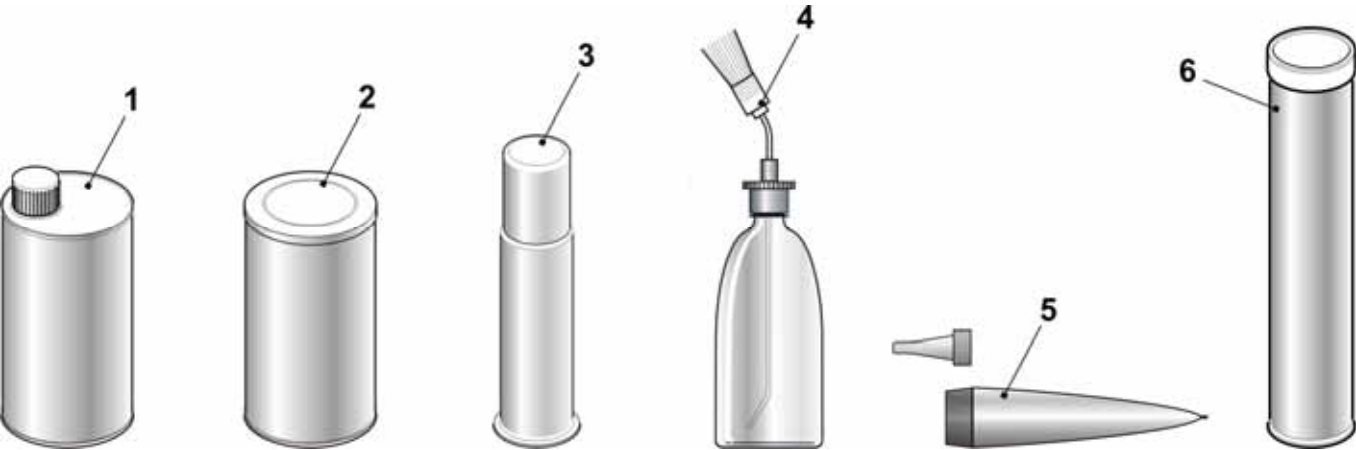
Tool

Pos	Designation	Ident No	Pos	Designation	Ident No
1	Channel support E4	062 309	6	Groove file 1.33 mm E3-4	006 169
	Channel support E5, E2,5.2	062 310		Groove file 1.25mm E5-8, E3,5.2	006 170
	Channel support E7, E3,5.2	062 312		Groove file 0.90mm E10-12, E5.2 + 6.2	006 175
	Channel support E8	062 313		Groove file 0.73mm E14, E7.2	006 173
	Channel support E10, E5.2	062 314		Groove file 0.45mm E16-18, E9.2	006 179
	Channel support E12, E6.2	062 315			
	Channel support E14, E7.2	218 069	7	Key of control cabinet	009 346
	Channel support E16, E8.2	230 188	8	Groove cleaner E4	031 232
	Channel support E18, E9.2	230 189		Groove cleaner E5	031 233
	Channel support E20	230 190		Groove cleaner E6	031 234
2	Channel chisel E14-20 (E5-14)	062 316		Groove cleaner E7, E3,5.2	031 235
	Channel chisel E4-8 (E3,5.2)	062 317		Groove cleaner E8	031 236
	Channel chisel E10-14	062 318		Groove cleaner E10 (E5.2)	031 238
3	Yarn guide on the left	227 071		Groove cleaner E12 (E6.2)	031 240
	Yarn guide on the right	227 070		Groove cleaner E14 (E7.2)	031 242
4	Working hook	227 249		Groove cleaner E16	225 111
	Extraction hook	232 027		Groove cleaner E18 (E9.2)	225 112
5	5a Small pin	202 843		Groove cleaner E20	225 113
	5b Pin	232 022	9	Measuring tape L=150cm	228 180
			10	Tool kit	209 527



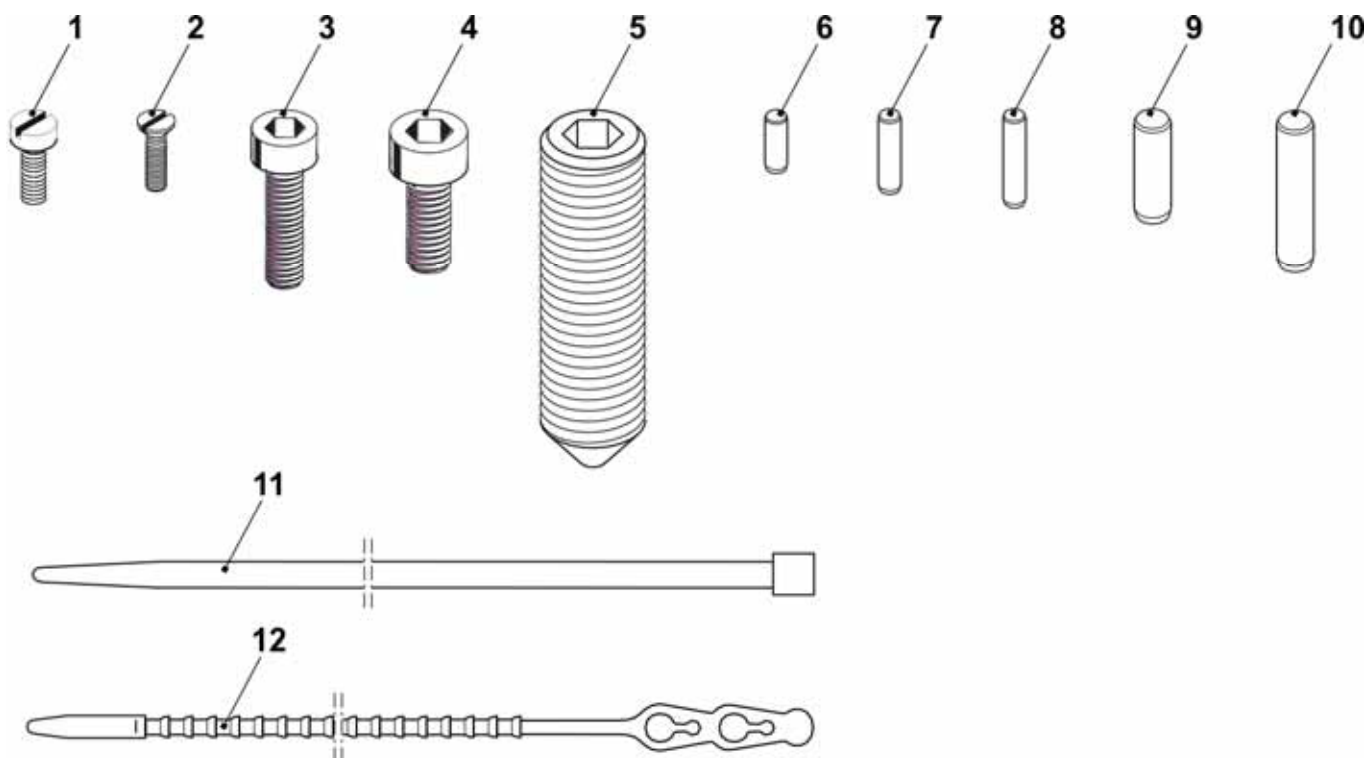
Lubricating stuff

Pos	Designation	Ident No	Pos	Designation	Ident No
1	Textile machines oil T46, 1l	230 614	4	Oil combifix no. 8/10 group 10	216 732
2	Grease OKS 475, 1kg	009 200	5	White grease paste OKS270	229 372
3	Grease OKS 475, 150g	005 351	6	Grease Staburags NBU 12/300KP	231 191



Mechanical parts

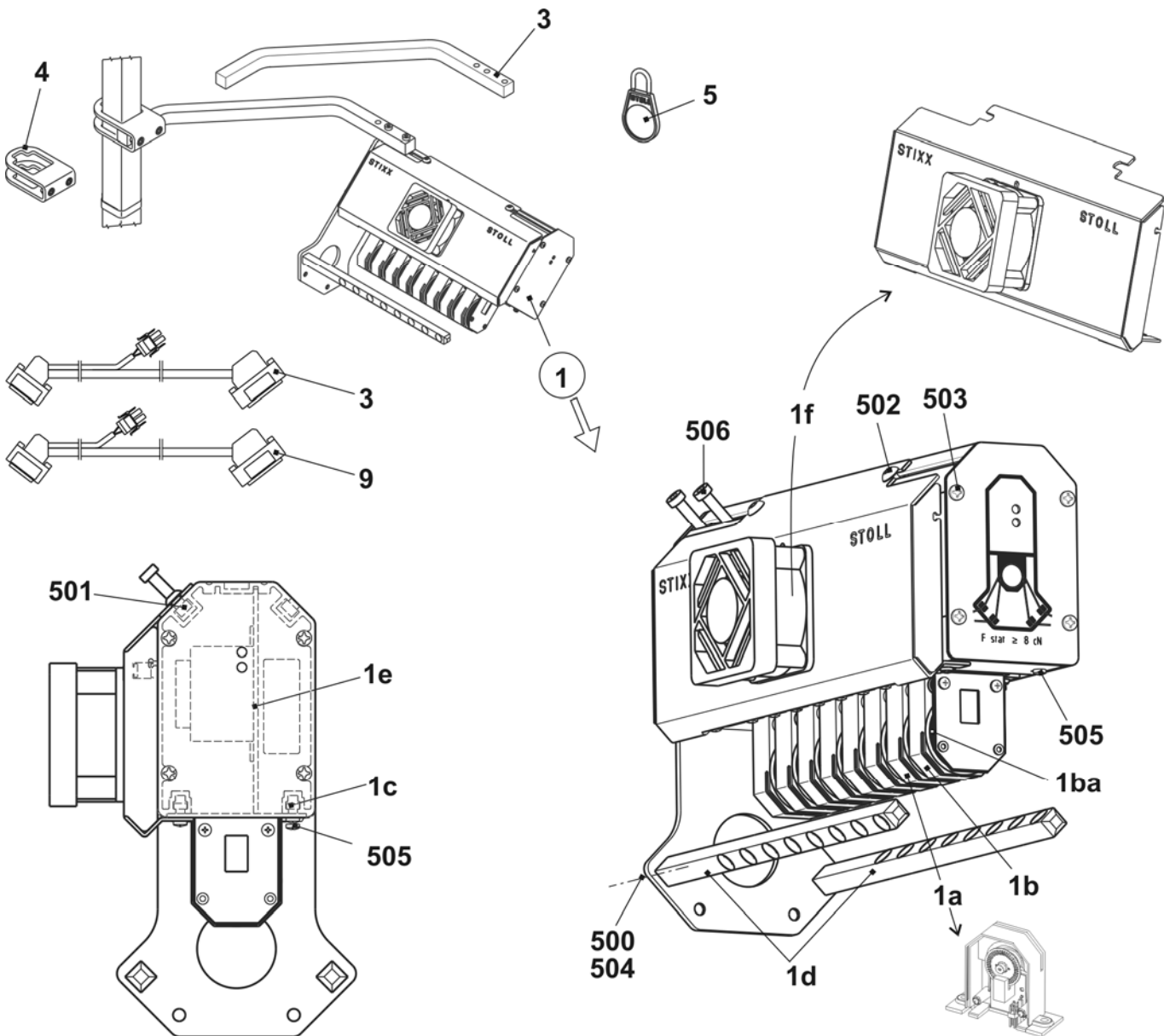
Pos	Designation	Ident No	Pos	Designation	Ident No
1	Cap screw M4x8	020 091	11	Cable binder 203x3.6 mm	025 815
2	Countersunk screw ISO 2009 - M3x6	020 286		Cable binder T50L	026 294
3	Cap screw DIN 912 - M5x16	022 726		Cable binder	008 379
4	Cap screw DIN 912 - M6x14	022 658		Cable binder 302x4.8 mm	008 642
5	Set screw DIN 914 - M16x50-45H	023 235		Cable binder 92x2.4mm	008 378
6	Setting pin 3x7	020 643	12	Reusable tie ABV 232 320mm	026 557
7	Setting pin 3x10	020 645			
8	Setting pin 3x12	020 647			
9	Setting pin 5x12	021 988			
10	Setting pin 5x18	022 622			



Special equipment

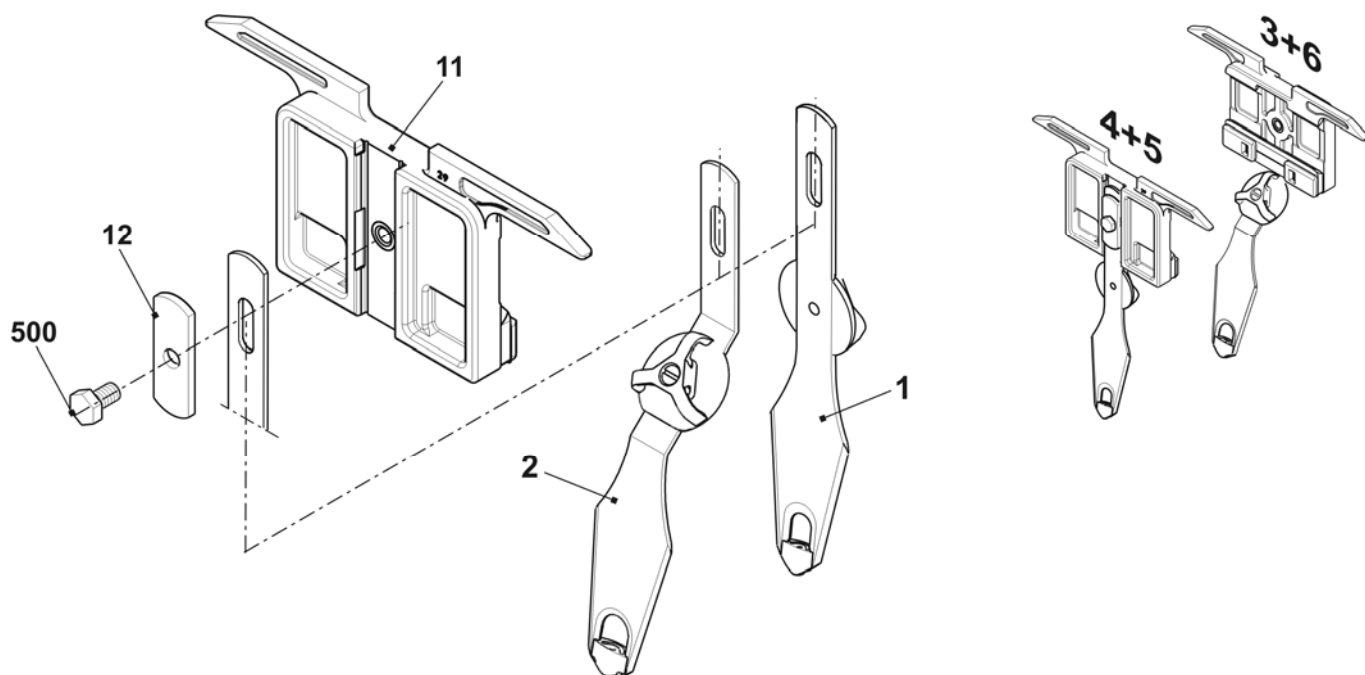
STIXX device

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Yarn length measuring device	223 382	4	Clamp	223 025
1	Yarn length measuring device 3	236 275	5	Setting weight	212 241
1a	Sensor	211 354	9	Cable length measuring MSLU7	225 114
1b	Sensor complete	212 406	500	Countersunk screw M5x10	023 247
1ba	Rubber running ring	212 390	501	Spring nut M5	022 873
1c	Threaded bar	211 801	502	Countersunk screw M5x6	023 246
1d	Yarn guide rod	211 352	503	Sheet metal screw ST3,5x13	022 940
1e	Card STIXX-CPU	300 934	504	Spring washer A5	022 454
1f	Ventilator complete	212 255	505	Oval head screw M3x10	023 380
2	Cable length measuring	236 718	506	Cap screw M5x22	023 193
3	STIXX support	223 030			



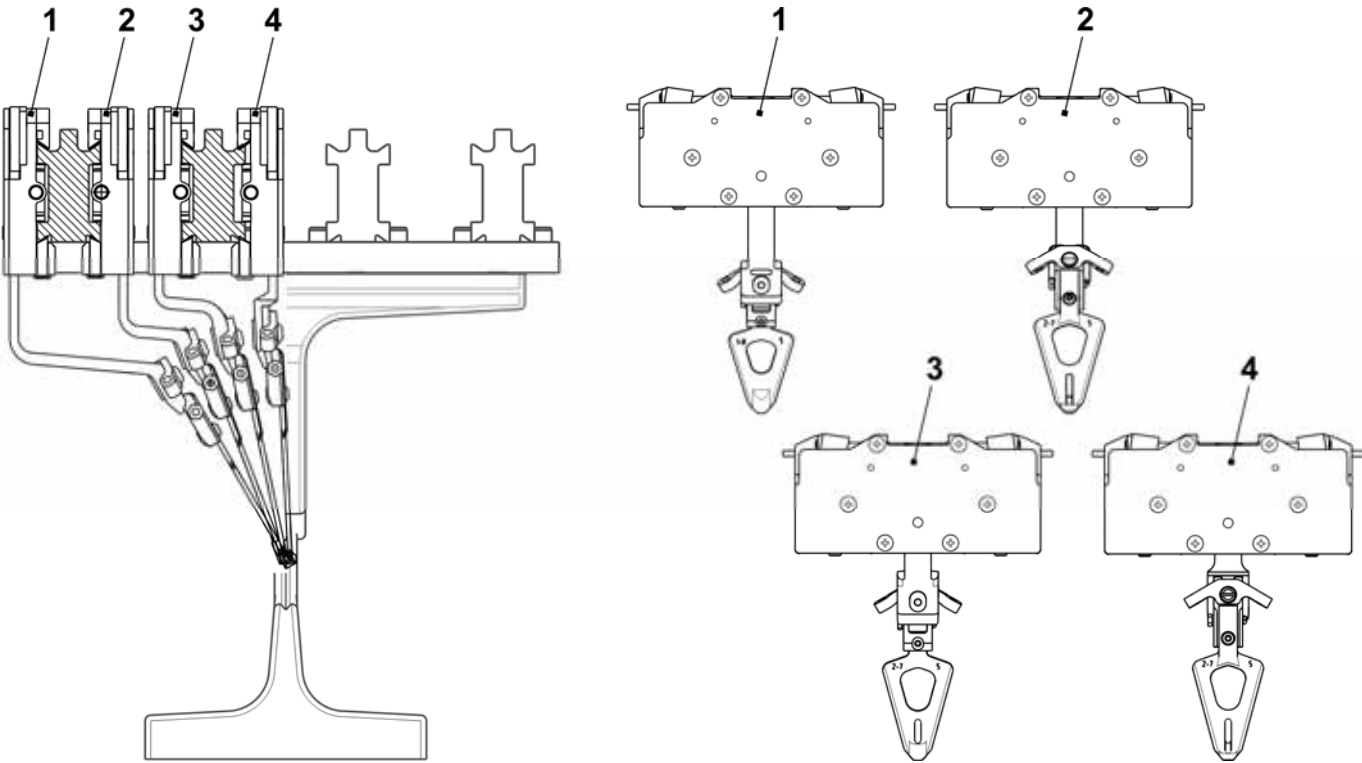
Bow of plating yarn carrier

Pos	Designation	Ident No	Pos	Designation	Ident No
1	Plating YC bow 4+5	214 591	2	Plating YC bow 3+6	214 590
	Plating YC bow 4+5 E5 + E2,5.2 + E3,5.2 + E5.2	213 326		Plating YC bow 3+6 E3 - E4	213 328
	Plating YC bow 4+5 E7 - E8 + E6.2	213 327		Plating YC bow 3+6 E5 + E2,5.2 + E3,5.2 + E5.2	213 329
	Plating YC bow 4+5 E10 - E14 + E7.2 + E9.2	213 330		Plating YC bow 3+6 E7 - E8 + E6.2	213 331
11	YC carriage complete	243 062	500	Plating YC bow 3+6 E10 - E14 + E7.2 + E9.2	213 331
12	Shim	213 035		Hexagon screw M5x10	020 351



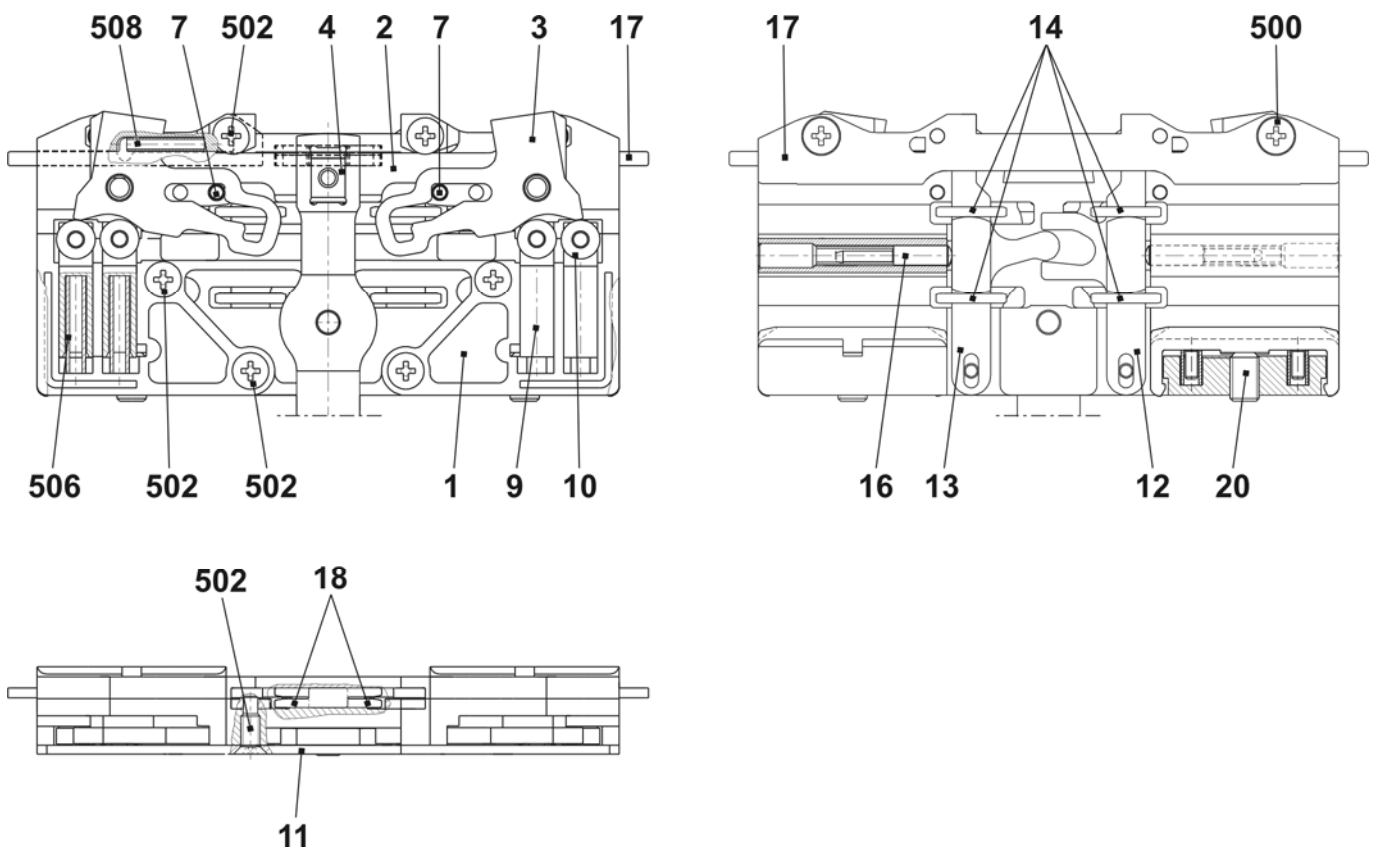
Complete intarsia yarn carriers

Designation	Gauge	Track	Pos	Ident No	Designation	Gauge	Track	Pos	Ident No
Intarsia yc carriage complete	E5	1 + 8	1	212 974	Intarsia yc carriage complete	E14	1 + 8	1	214 146
	E2,5.2	2 + 7	2	212 977		E8.2	2 + 7	2	214 147
	E3,5.2	3 + 6	3	212 980			3 + 6	3	214 148
	E5.2	4 + 5	4	212 983			4 + 5	4	214 149
	E7 - E8	1 + 8	1	212 975		E16 - E18	1 + 8	1	227 126
		2 + 7	2	212 978			2 + 7	2	227 127
		3 + 6	3	212 981			3 + 6	3	227 128
		4 + 5	4	212 984			4 + 5	4	227 129
	E10 - E12	1 + 8	1	212 976					
		2 + 7	2	212 979					
		3 + 6	3	212 982					
		4 + 5	4	212 985					



Carriage IYC

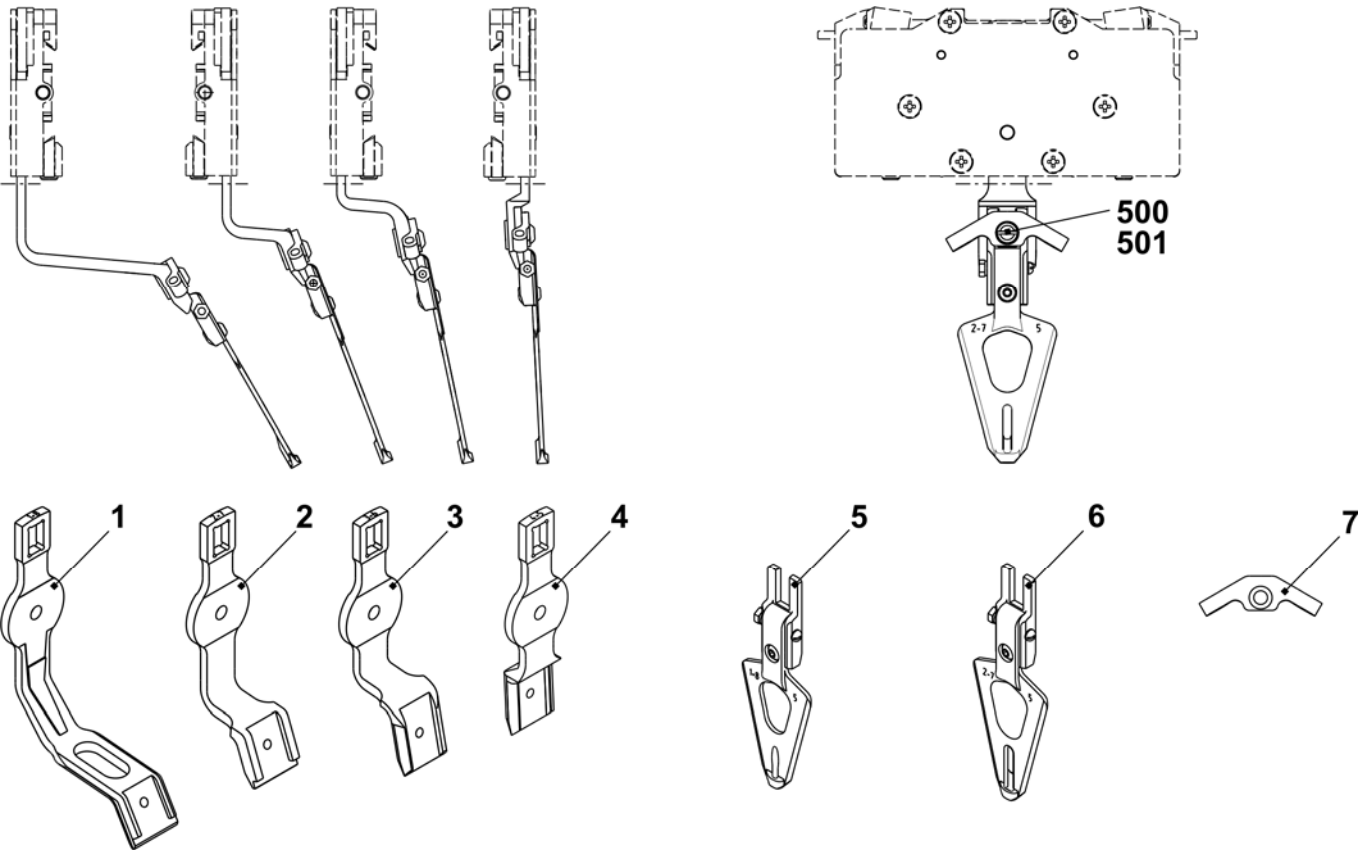
Pos	Designation	Ident No	Pos	Designation	Ident No
1	Basic plate complete	216 031	13	Clamping lever on the left	216 101
2	Slider	217 170	14	Pressure plate 2.04	201 654
3	Locking plunger	212 508		Pressure plate 2.06	208 924
4	Sliding block	212 503		Pressure plate 2.02	235 740
7	Locating pin 3.3	212 504	16	Spring pin	201 677
	Locating pin 3.4	212 505	17	Lifter	212 547
	Locating pin 3.5	212 506	18	Sliding part	212 543
9	Thrust piece	212 773	20	Threaded bolt	213 399
10	Pressure roller	212 774	500	Countersunk head screw M4x6	022 994
11	Cover	212 507	502	Countersunk head screw M4x12.5	022 979
12	Clamping lever on the right	216 100	506	Compression spring 4.0x0.7x25	022 969
			508	Compression spring 2.8x0.35x19	023 394



Bow and head IYC

Pos	Designation	Ident No	Pos	Designation	Ident No
1	YC bow 1+8	212 986	7	Yarn guide angle	201 672
2	YC bow 2+7	212 987	510	Cap screw M4x8	022 977
3	YC bow 3+6	212 988	512	Circlip S4-FST	022 774
4	YC bow 4+5	212 989			

Pos	Designation	Gauge	Track	Ident No	Pos	Designation	Gauge	Track	Ident No
5	YC head	E5, E5.2	1 + 8	208 579	6	YC head	E5, E5.2	2 + 7 3 + 6 4 + 5	208 581
		E2,5.2					E2,5.2		
		E3,5.2					E3,5.2		
		E7 - E8		208 580			E7 - E8		208 582
		E6.2					E6.2		
		E10 - E12		209 700			E10 - E12		209 701
		E6.2(12)					E6.2(12)		
		E7.2					E7.2		
		E9.2					E9.2		
		E14		213 864			E14		213 865
		E8.2					E8.2		
		E16 - E18		227 109			E16 - E18		227 113



Additional board

Pos	Designation	Ident No	Pos	Designation	Ident No
Σ	Additional board	242 742	4	Bobbin support	200 363
1	Additional board welded	242 741	500	Countersunk screw M4x30	023 681
2	Positioning pin	202 777	501	Washer 5.3x30x1.25	023 556
3	Disc D=130	062 385			

