

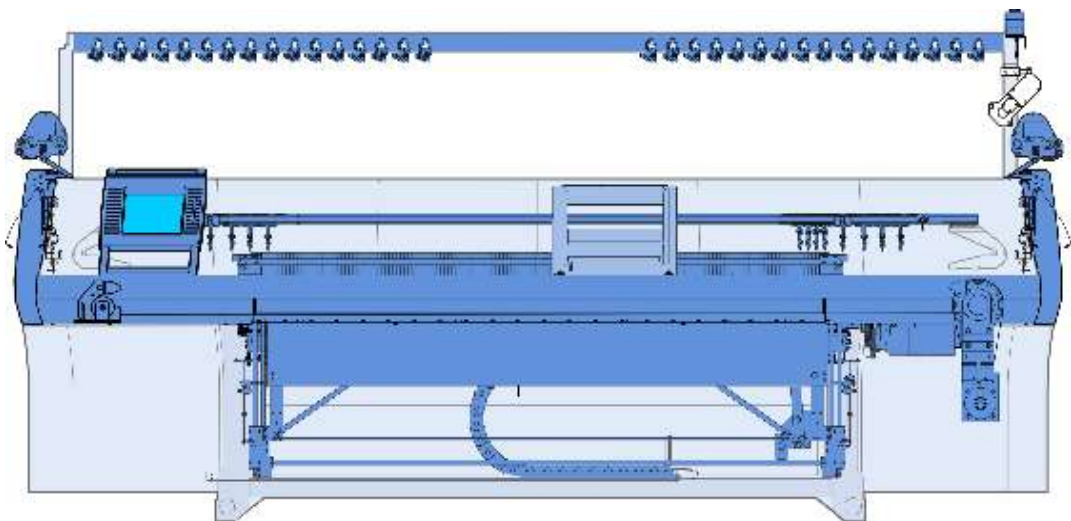
STOLL

Spare parts catalog

CMS 830S (Type 633)

Component type 005

E3,5.2 | E7.2 | E9.2



Document No. 257131_03_GB

Release 2017/02

1 Introduction

Imprint

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Our products are being developed further continuously. They are therefore subject to technical modifications.

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Notes for the order

This catalog serves to order spare parts.

It can only be applied to the machine type recorded on the title page.

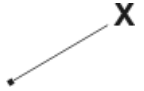
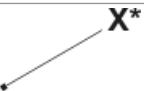
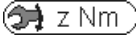
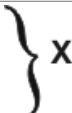
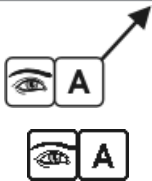
When ordering spare parts we imperatively ask for the following indications as otherwise a delivery of spare parts is not possible:

1. Type of machine, gauge, no. of machine.
2. Page no., designation, ID, quantity.

Only genuine STOLL spare parts may be used for repairs.

1.1 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.
	Explosion representation, single elements enlarged.
	Indicates a group of parts.
	Indicates the left side or view.
	Indicates the right-hand side or view.
	Indicates a sectional drawing or a view in the viewing direction.

1.2 Torques

Preferential row of screw 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-cutting threads.
- Torques differing from this preferential row of torques must be taken from the corresponding location in the drawings.

Drehmomente Torques Couples Coppias Momentos de rotación [Nm] $\pm 10\%$ (für $\mu_{\text{ges}} = 0,12$)		Festigkeitsklassen Property class Classes de résistance Classi di resistenza Clasas 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	

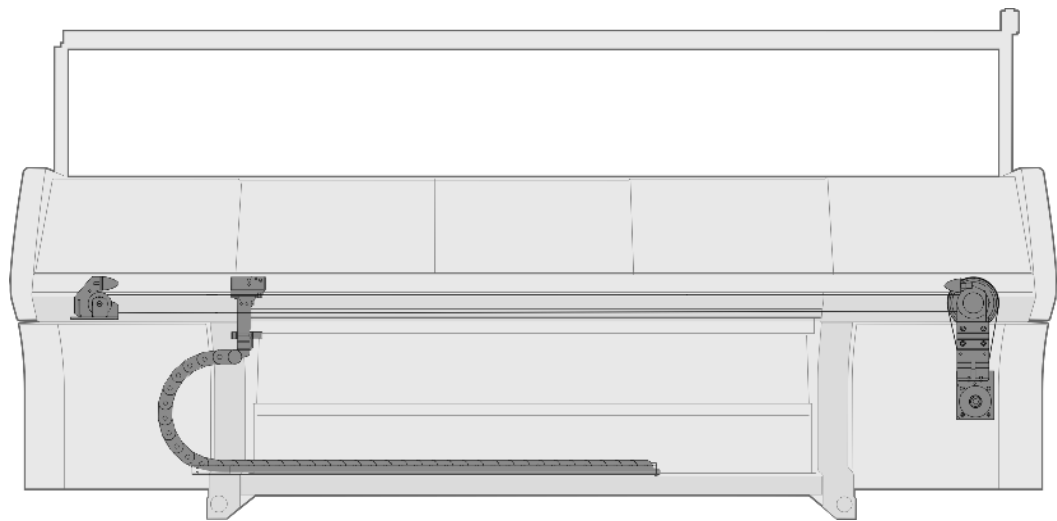
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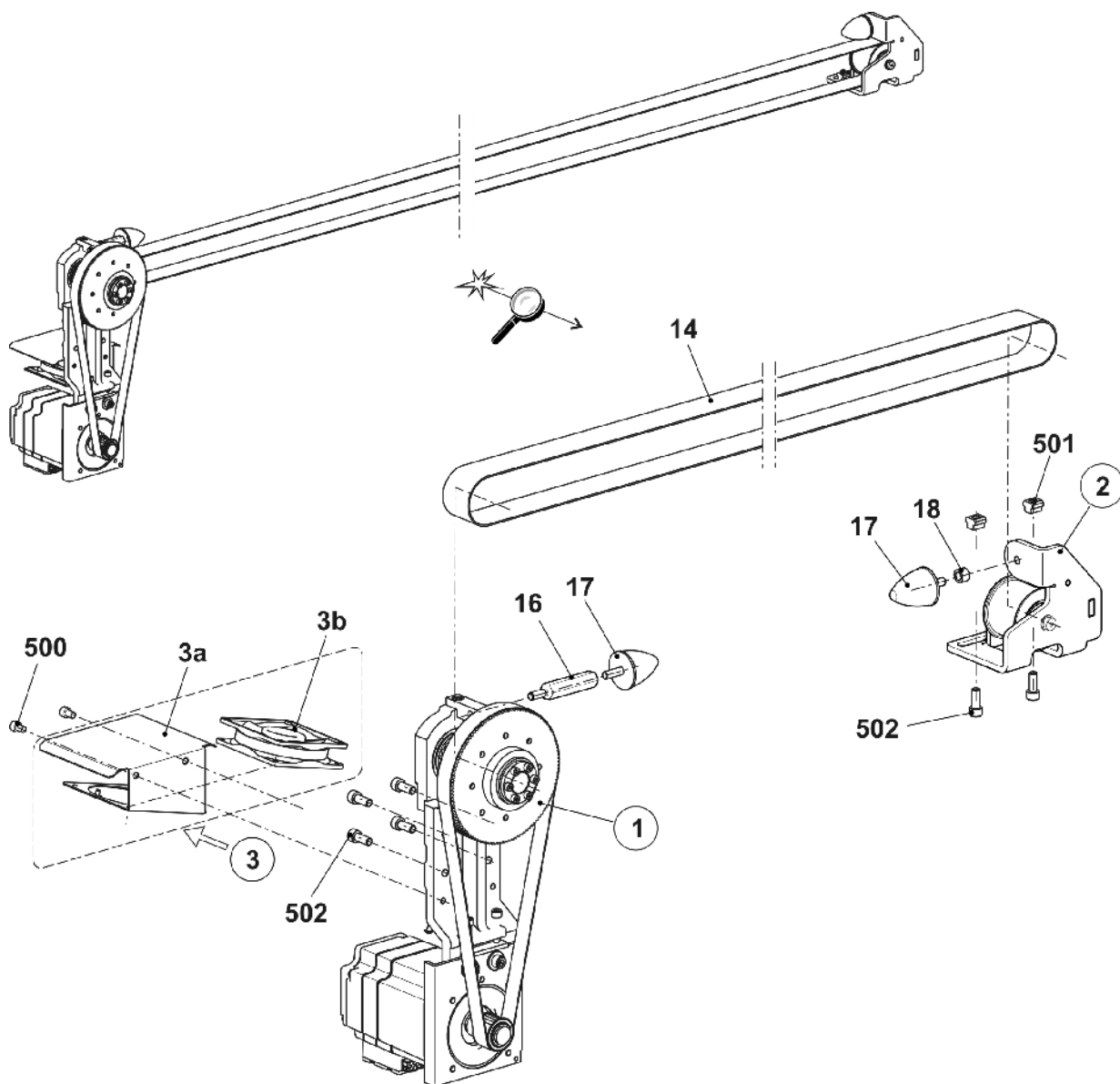
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2 Carriage drive



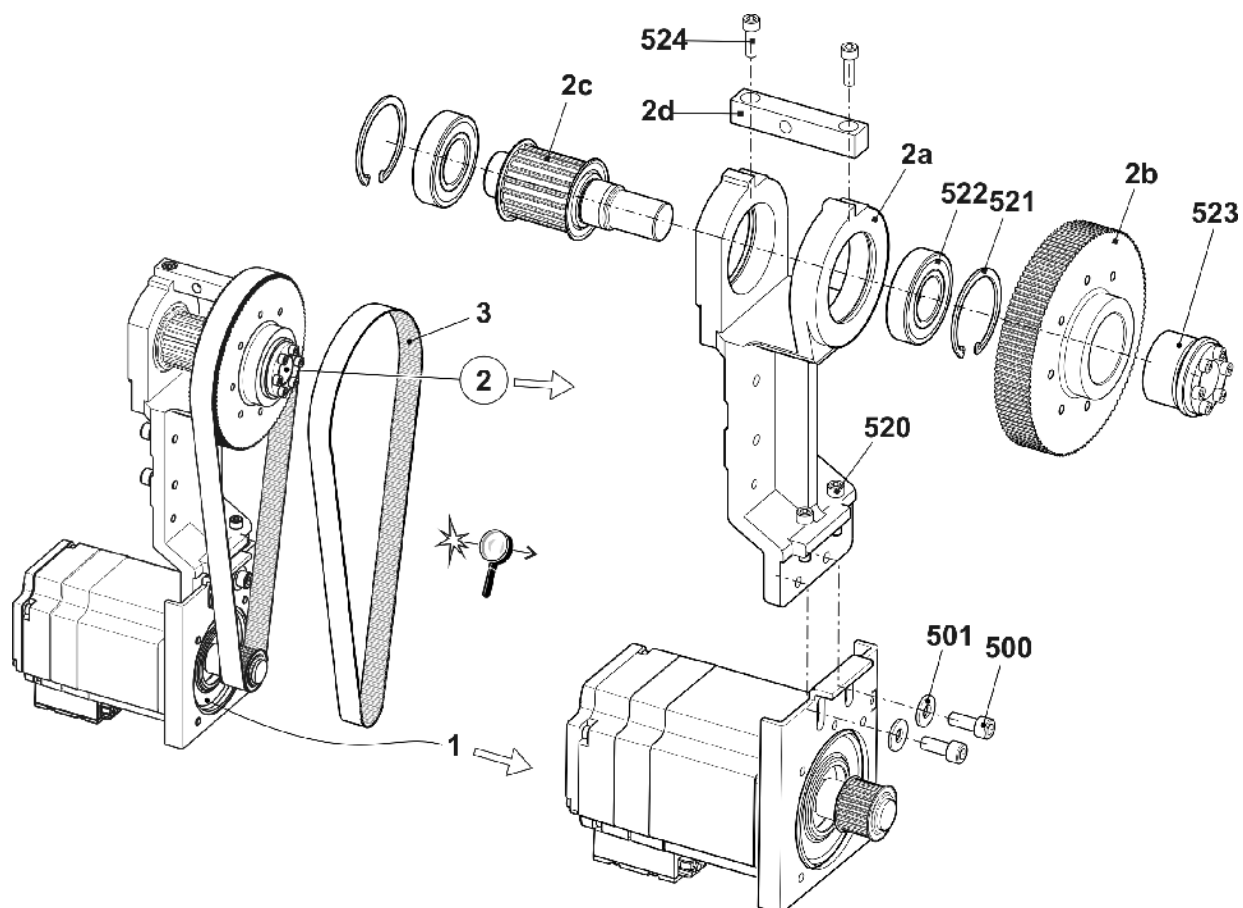
2.1 Drive

Pos	Designation	ID	Pos	Designation	ID
Σ	Drive unit				
1	Drive unit complete	240 743	16	Hexagon bolt	254 823
2	Tension bearing complete	251 581	17	Parabolic spring	200 661
3	Fan complete	242 413	18	Spacer pipe	253 867
3a	Fan plate drive motor	241 823	500	Cap screws M8x12	023 138
3b	Fan complete512	213 722	501	Sliding nut M10X12	023 471
14	Toothed belt50AT10/7040HP	254 822	502	Cap screw M10X25	020 157



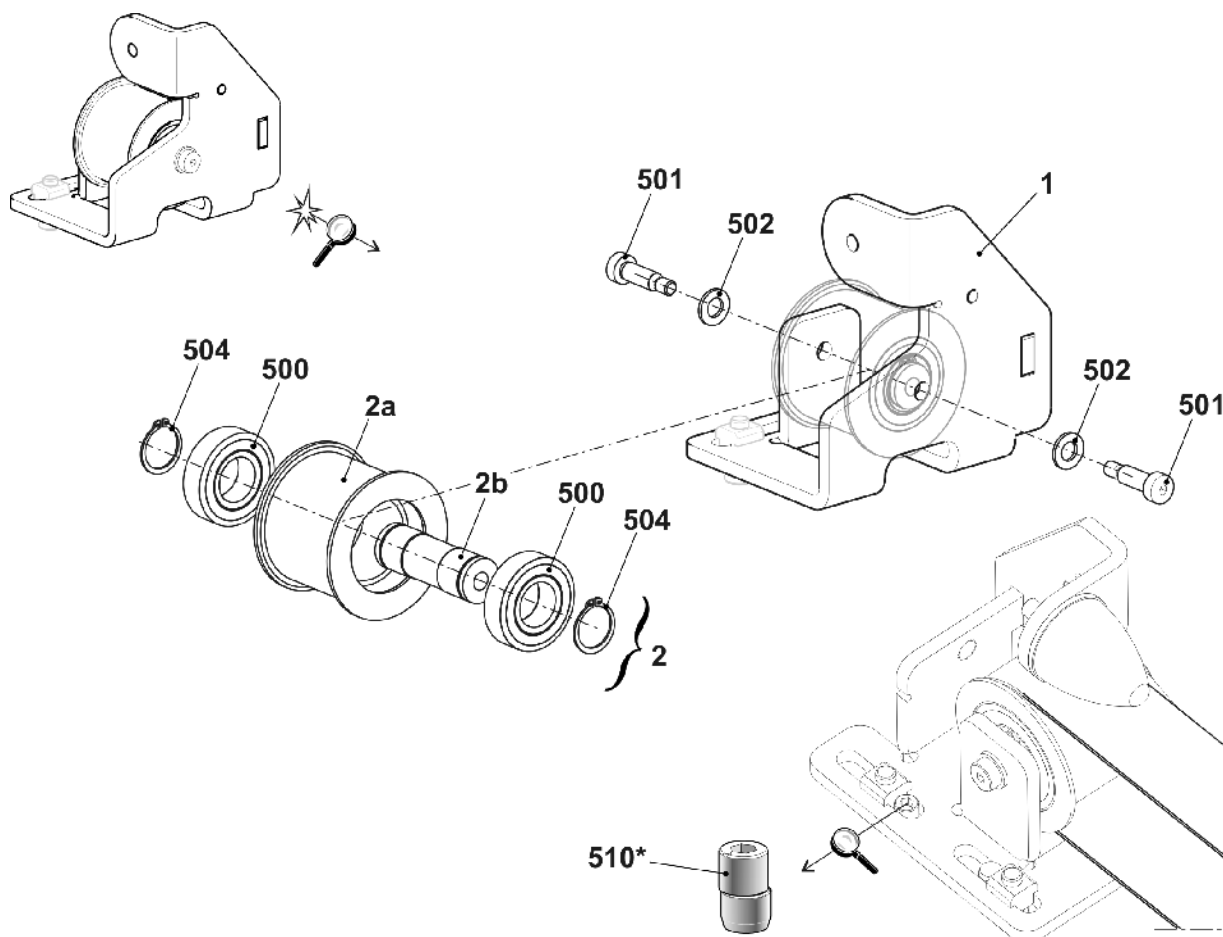
2.1.1 Motor and belt drive

Pos	Designation	Id	Pos	Designation	Id
Σ	Drive unit complete	240 743			
1	Drive unit	256 301	521	Retaining ring 72x2.5	022 914
2	Drive bearing complete	255 005	522	Grooved ball bearing 6207-2RS	022 915
2a	Drive bearing ECO2	252 634	523	Tension set 30X55	023 208
2b	Toothed belt pulley	240 616	524	Cap screw M8X25 12.9	020 142
2c	Pinion 57 AT10 18	242 039	3	Toothed belt 250 HP-S5M 1050 NG	240 628
2d	Support of buffer	222 100	500	Cap screw M10X25	020 157
520	Cap screw M8X35	020 144	501	Disk 10,5X25X2,5	022 178



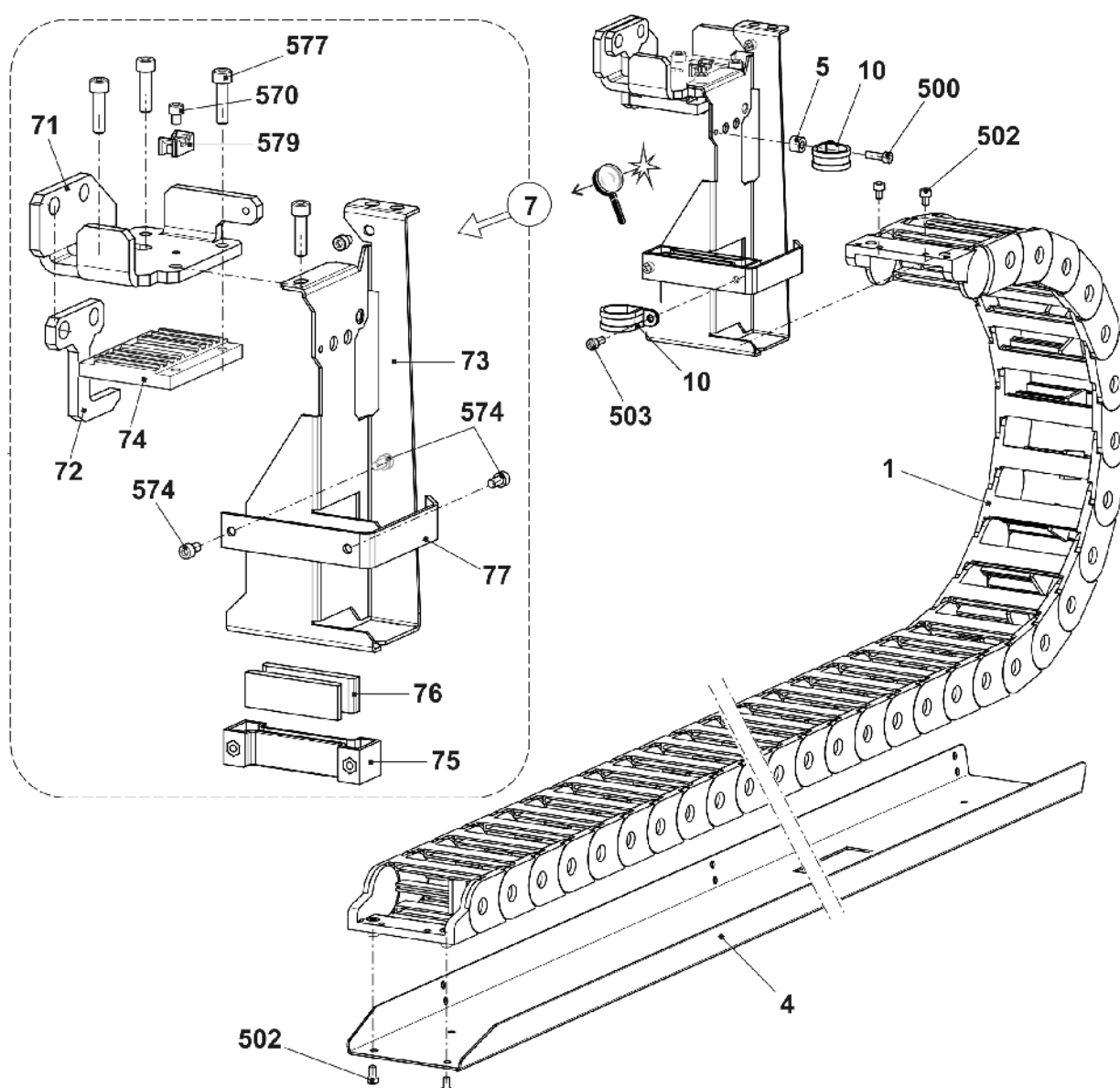
2.1.2 Tension bearing

Pos	Designation	Id	Pos	Designation	Id
Σ	Tension bearing complete	251 581	2	500 Grooved ball bearing 625-6305-2RS	255 686
1	Tension bearing	251 560	504	Retaining ring 471-25x1,2	251 617
2	Tension roller complete	256 640	501	Cap screw M10x25	023 751
2a	Tension roller	255 684	502	Washer	020 874
2b	Axle	251 579	510*	Eccentric	255 499



2.2 Energy chain and plunger

Pos	Designation	ID	Pos	Designation	ID
1	Energy chain 40 links	259 232	7	Continuation carriage driver complete	
4	Depositing gutter	259 273	77	Cover strip	258 379
5	Threaded spacer	214 584	574	Cap screw M6x12	020 134
7	Carriage driver complete	259 280	577	Cap screw M8x30	020 143
71	Carriage driver	258 380	579	Fixing element	026 489
72	Switch flag carriage driver	258 381	570	Cap screw M6x8	023 411
73	Cable driver	259 286	10	Hose clip	214 653
74	Clamping plate	252 592	500	Cap screw M6x20	020 136
75	Cable holder	204 688	502	Cap screw M6x8	023 411
76	Cellular caoutchouc black	202 597	503	Cap screw M6x16	020 135

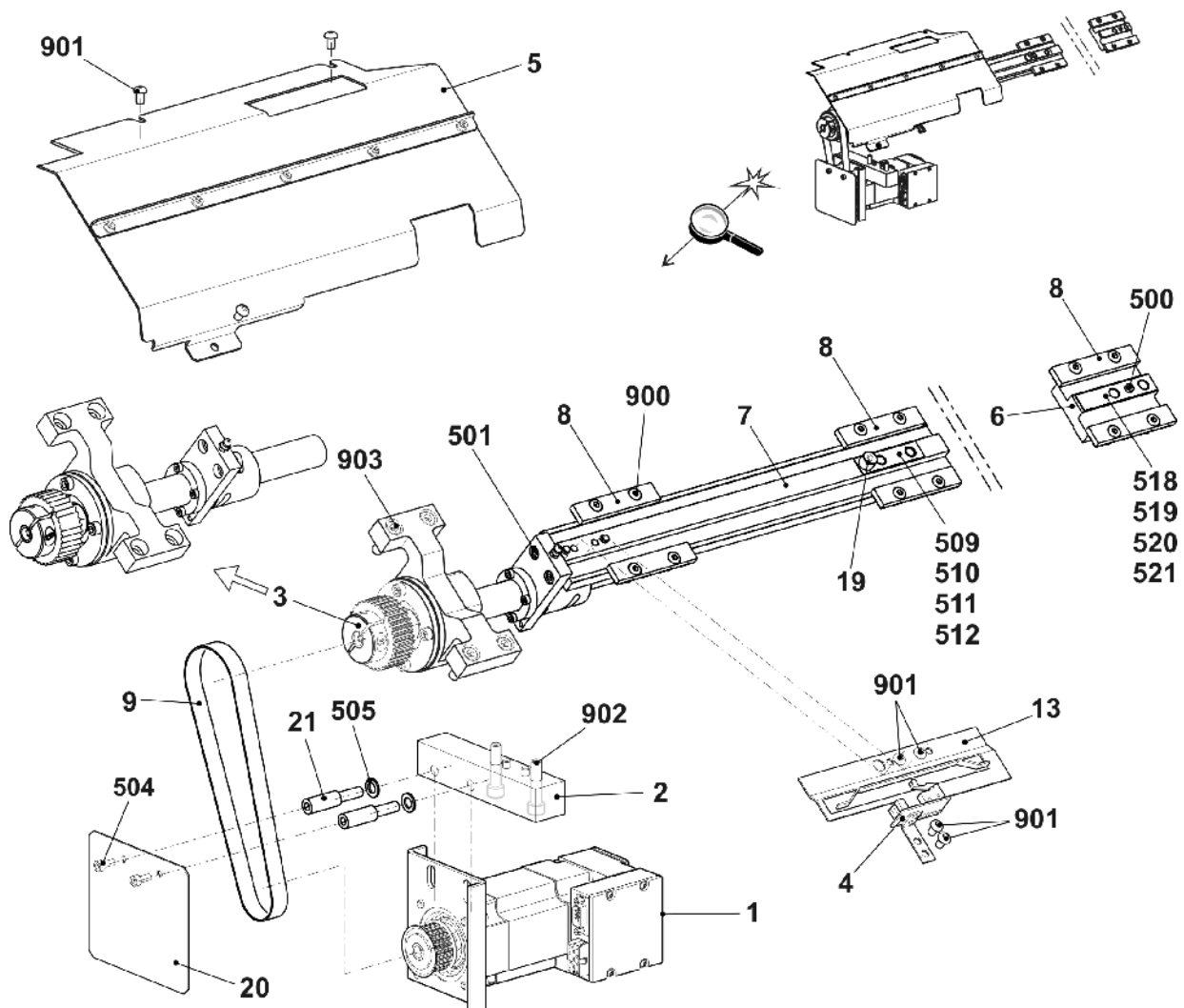


3 Racking



3.1 Racking drive

Pos	Designation	Id	Pos	Designation	Id
Σ	Racking		501	Cap screw M6x16	023 116
1	Racking motor complete	258 192	504	Cap screw M5x12	020 132
2	Bearing	227 605	505	Washer	022 175
3	Spindle bearing	253 262	509	Shim0,03x15x63	023 482
4	Card racking limit switch	229 396	510	Shim0,05x15x63	023 483
5	Racking cover plate at the rear	254 776	511	Shim0,1x15x63	023 484
6	Racking strip on the left	213 799	512	Shim0,2x15x63	023 485
7	Racking strip	241 853	518	Shim0,03x15x75	023 395
8	Guide strip	206 382	519	Shim0,05x15x75	023 396
9	Toothed belt150 S 5M 425	229 280	520	Shim0,1x15x75	023 397
13	Switch plate	254 448	521	Shim0,2x15x75	023 398
19	Stop screw	222 645	900	Cap screw M6x12	022 795
20	Cover plate	232 544	901	Pan head screw M6x10	023 183
21	Distance bolt	232 543	902	Cap screw M8x30	020 143
500	Cap screw M4x4	022 767	903	Cap screw M8x25	020 142

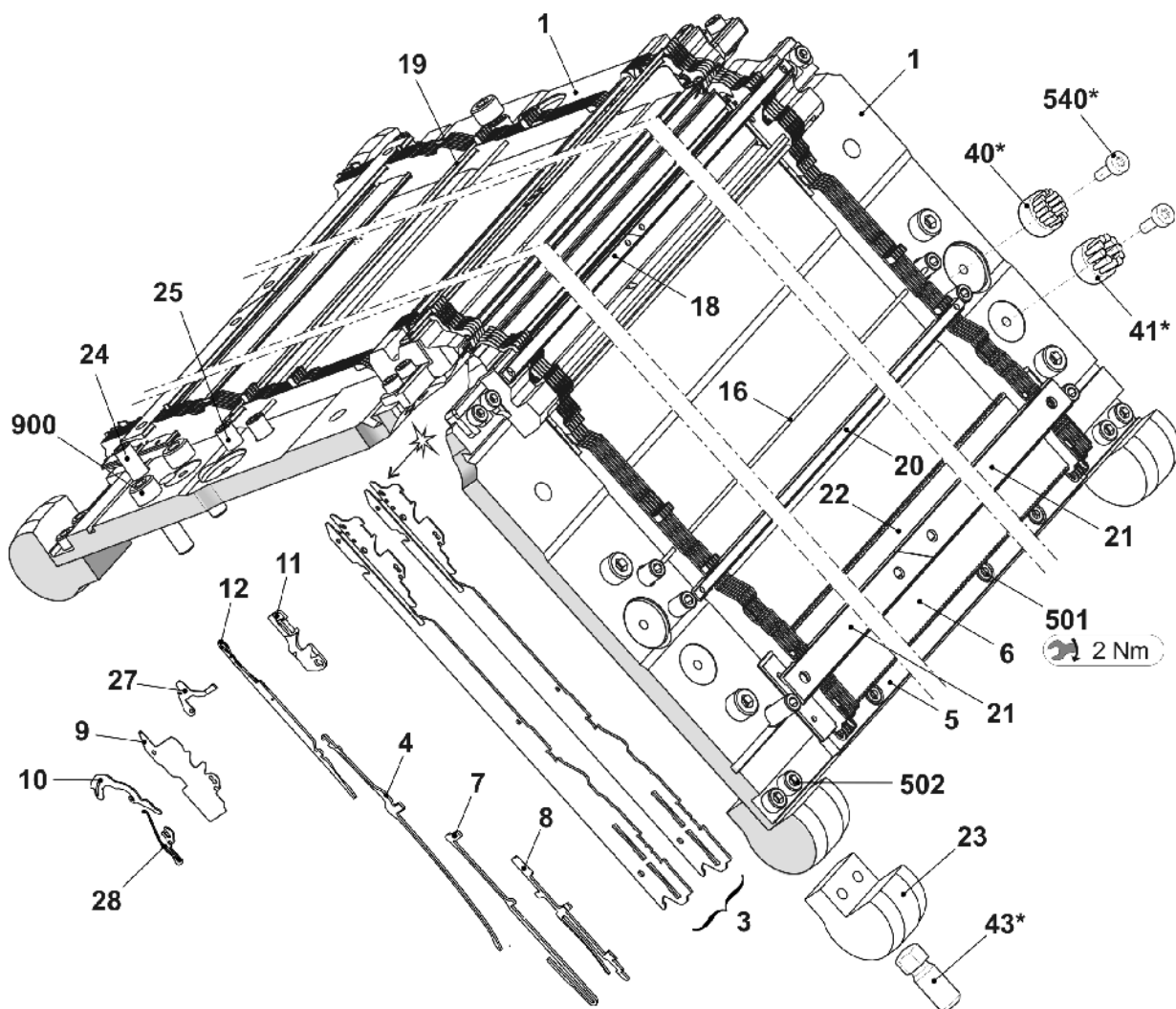


4 Needle beds



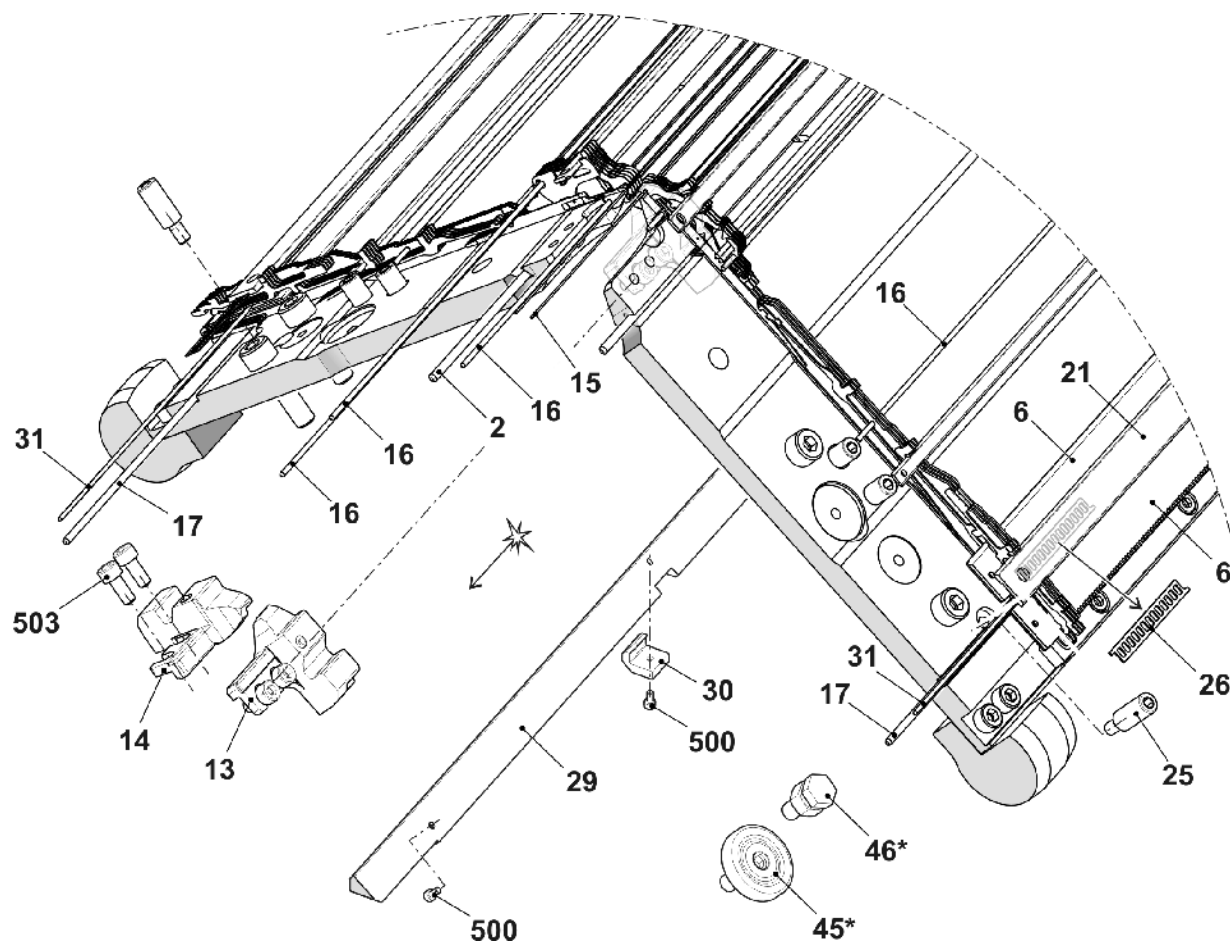
4.1 Needle bed E3,5.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Needle bed complete at the front and rear E3,5.2	264 525	20	Cover rail at the front E3,5.2	264 548
1	Needle bed at the front + rear E3,5.2	264 524	21	Cover rail selection E7.2+9.2	254 367
3	Main trick wall pair complete E3,5.2	254 928	22	Intermediate rail E7.2+9.2	254 361
4	Coupling part E3,5.2	240 513	23	Support	240 604
5	Pressure strip E7.2+9.2	254 311	24	Stop screw AWS	235 243
6	Intermediate rail E3,5.2	264 547	25	Stop screw	235 244
7	Intermediate slider E3,5.2	241 223	27	Yarn guide jack E3,5.2	254 930
8	Selection jack E3,5.2	240 815	28	Spring NHP E3,5.2	241 307
9	Wire support E3,5.2	241 334	501	Cap screw M5x8	023 154
10	Holding-down jack E3,5.2	254 929	502	Cap screw M6x12	020 134
11	Needle guide E3,5.2	254 933	900	Cap screw M8x30	020 143
12	Needle E3,5.2	254 102	40*	Disk brush	230 744
16	Spring steel wire E7.2+9.2 D=2	254 363	41*	Disk brush	202 600
18	Needle bar E7.2+9.2	254 368	43*	Adjusting bolt	230 742
19	Cover rail at the rear E7.2+9.2	254 365	540*	Cap screw M5x12	020 032



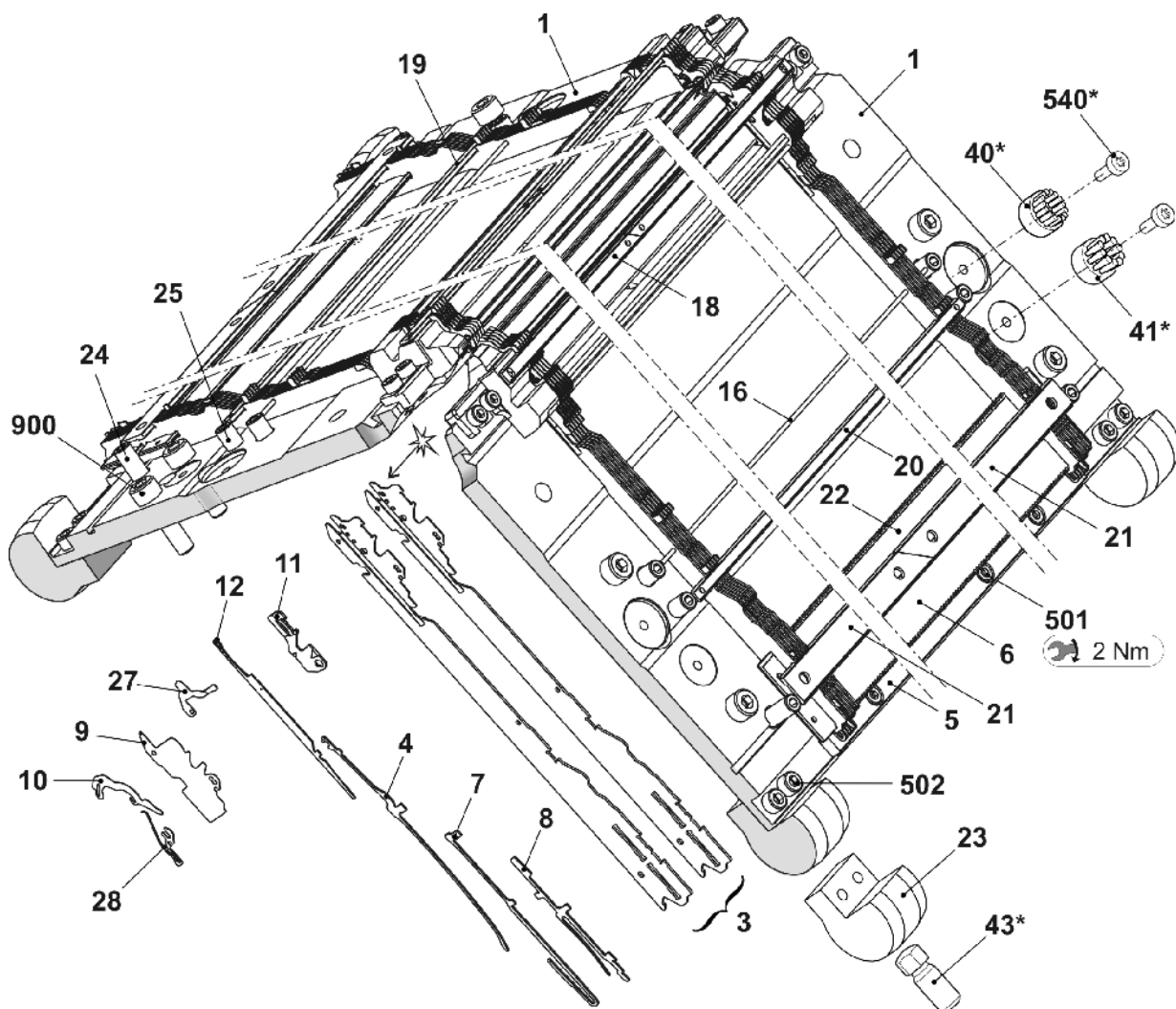
4.2 Continuation needle bed E3,5.2

Pos	Designation	ID	Pos	Designation	ID
2	Locating wire E7.2+9.2 D=3	254 360	25	Stop screw	235 244
6	Intermediate rail E3,5.2	264 547	26	Spacer sheet metal trick wall E3,5.2	241 231
13	Limiter on the left complete E5.2-9.2	236 976	29	Strip guider	254 443
14	Limiter on the right complete E5.2-9.2	236 977	30	Guider	233 023
15	Spring steel wire E7.2+9.2 D=0,8	254 362	31	Locating wire E7.2+9.2 D=1,6	254 369
16	Spring steel wire E7.2+9.2 D=2	254 363	500	Cap screw M3x6	022 589
17	Locating wire E7.2+9.2 D=2	254 364	503	Cap screw M5x12	020 132
21	Cover rail selection E7.2+9.2	254 367	45*	Adjusting piece	206 375
22	Intermediate rail E7.2+9.2	254 361	46*	Set screw complete	207 712



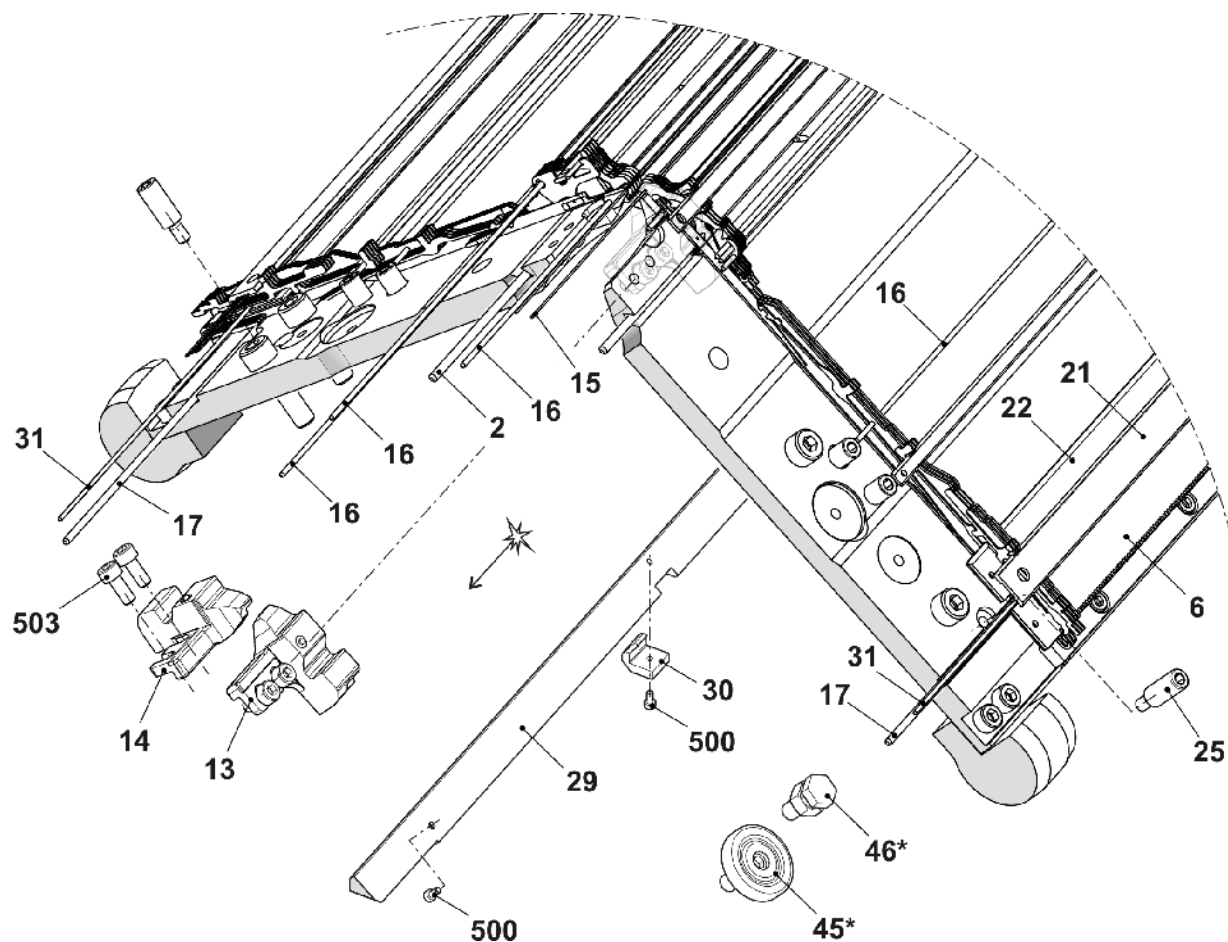
4.3 Needle bed E7.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Needle bed complete at the front and rear E7.2	254 527	20	Cover rail at the front E7.2	254 531
1	Needle bed at the front + rear E7.2	254 526	21	Cover rail selection E7.2+9.2	254 367
3	Main trick wall pair complete E7.2	252 639	22	Intermediate rail E7.2	254 361
4	Coupling part E7.2	237 964	23	Support	240 604
5	Pressure strip E7.2+9.2	254 311	24	Stop screw AWS	235 243
6	Intermediate rail E7.2	254 530	25	Stop screw	235 244
7	Intermediate slider E7.2	237 968	27	Yarn guide jack E7.2	252 674
8	Selection jack E7.2	251 063	28	Spring NHP	237 057
9	Wire support E7.2	237 942	501	Cap screw M5x8	023 154
10	Holding-down jack E7.2	252 675	502	Cap screw M6x12	020 134
11	Needle guide E7.2	252 676	900	Cap screw M8x30	020 143
12	Needle E7.2	252 632	40*	Disk brush	230 744
16	Spring steel wire E7.2+9.2 D=2	254 363	41*	Disk brush	202 600
18	Needle bar E7.2+9.2	254 368	43*	Adjusting bolt	230 742
19	Cover rail at the rear E7.2+9.2	254 365	540*	Cap screw M5x12	020 032



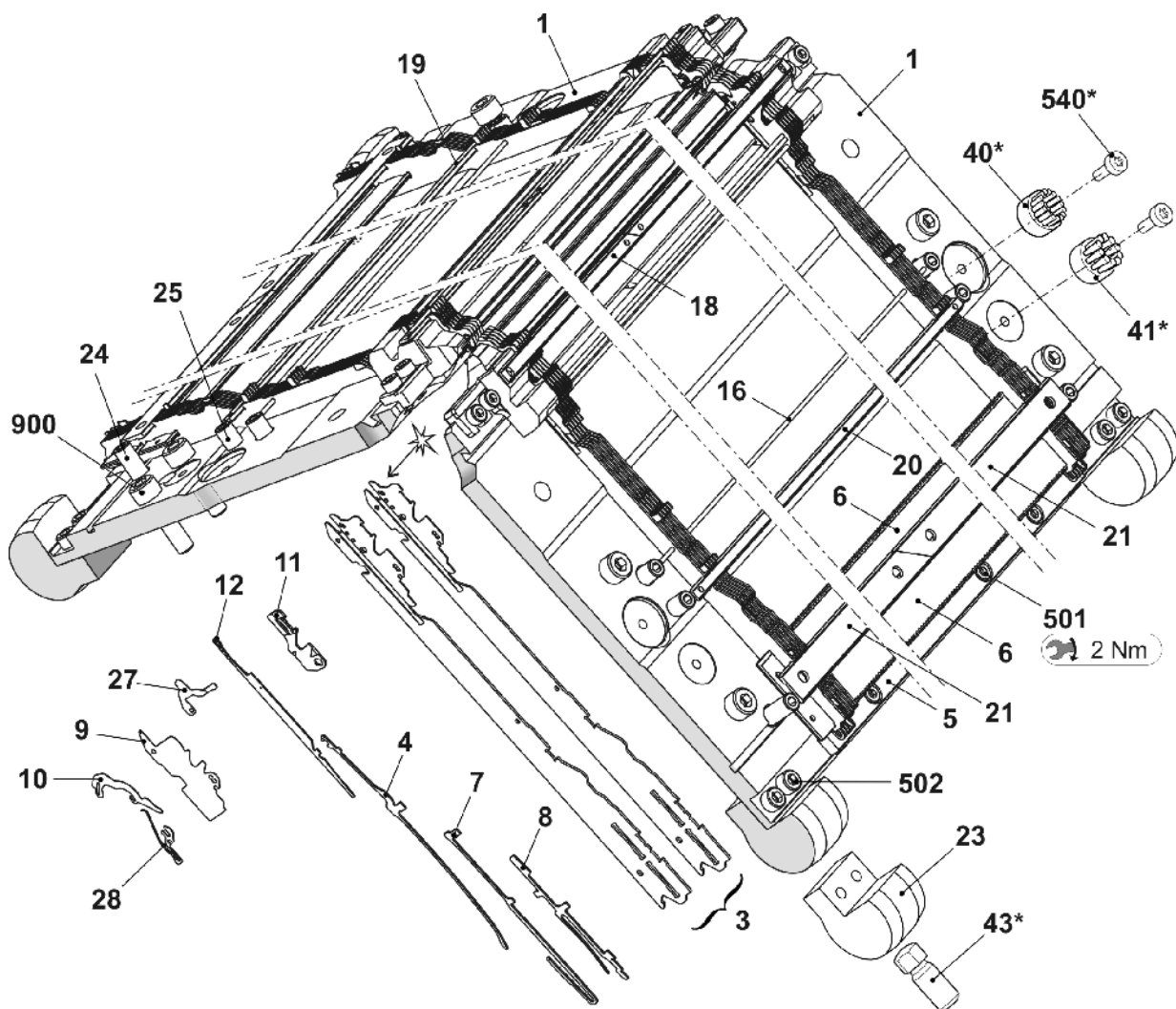
4.4 Continuation needle bed E7.2

Pos	Designation	ID	Pos	Designation	ID
2	Locating wire E7.2+9.2 D=3	254 360	25	Stop screw	235 244
6	Intermediate rail E7.2	254 530	29	Strip guider	254 443
13	Limiter on the left complete E5.2-9.2	236 976	30	Guider	233 023
14	Limiter on the right complete E5.2-9.2	236 977	31	Locating wire E7.2+9.2 D=1,6	254 369
15	Spring steel wire E7.2+9.2 D=0,8	254 362	500	Cap screw M3x6	022 589
16	Spring steel wire E7.2+9.2 D=2	254 363	503	Cap screw M5x12	020 132
17	Locating wire E7.2+9.2 D=2	254 364	45*	Adjusting piece	206 375
21	Cover rail selection E7.2+9.2	254 367	46*	Set screw complete	207 712
22	Intermediate rail E7.2+9.2	254 361			



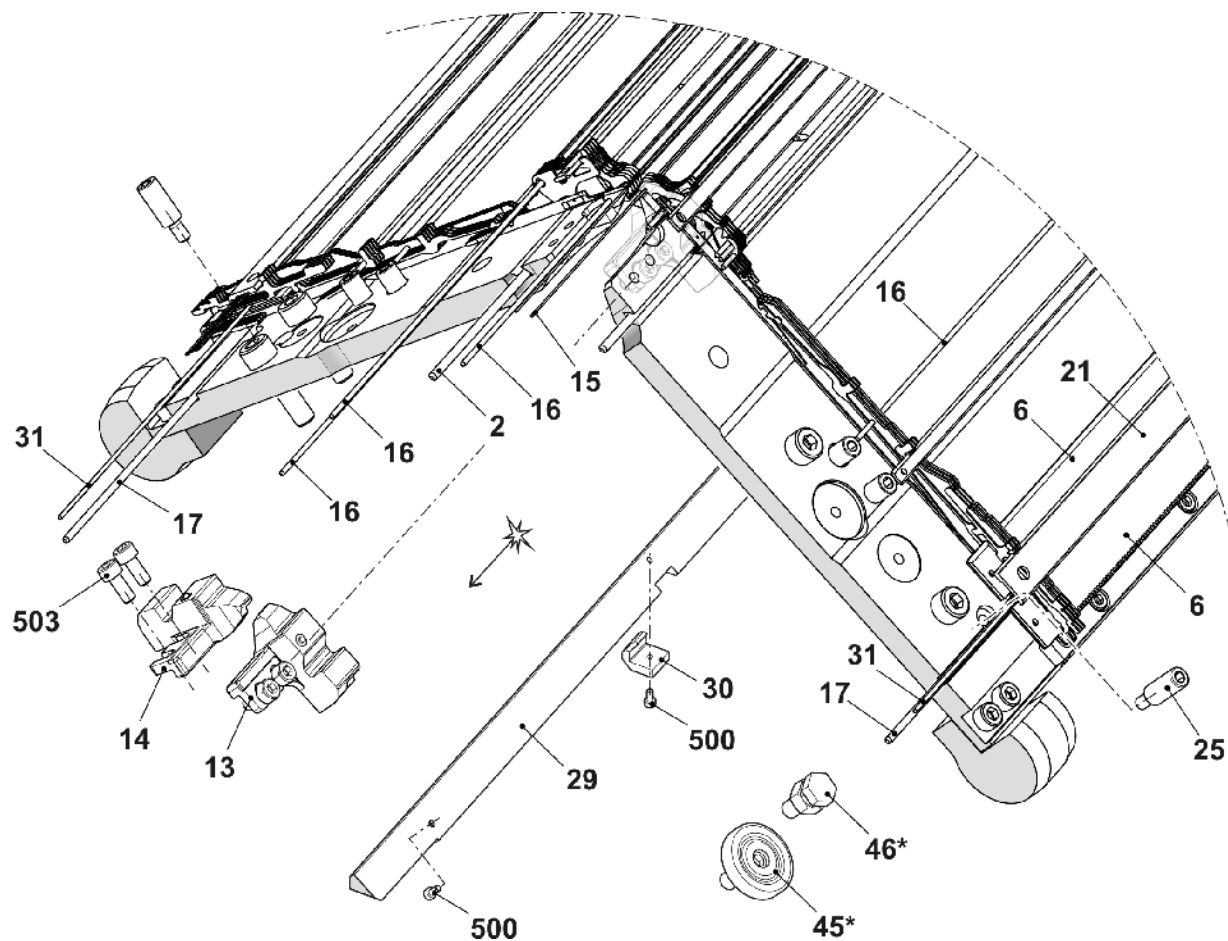
4.5 Needle bed E9.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Needle bed complete at the front and rear E9.2	254 310			
1	Needle bed at the front + rear E9.2	254 306	20	Cover rail at the front E9.2	254 366
3	Main trick wall pair complete E9.2	254 167	21	Cover rail selection E7.2+9.2	254 367
4	Coupling part E9.2	240 512	23	Support	240 604
5	Pressure strip E7.2+9.2	254 311	24	Stop screw AWS	235 243
6	Intermediate rail E9.2	254 389	25	Stop screw	235 244
7	Intermediate slider E9.2	241 254	27	Yarn guide jack E9.2	254 170
8	Selection jack E9.2	243 170	28	Spring holding-down jack E9.2	254 287
9	Wire support E9.2	254 171	501	Cap screw M5x8	023 154
10	Holding-down jack E9.2	254 169	502	Cap screw M6x12	020 134
11	Needle guide E9.2	254 172	900	Cap screw M8x30	020 143
12	Needle E9.2	236 260	40*	Disk brush	230 744
16	Spring steel wire E7.2+9.2 D=2	254 363	41*	Disk brush	202 600
18	Needle bar E7.2+9.2	254 368	43*	Adjusting bolt	230 742
19	Cover rail at the rear E7.2+9.2	254 365	540*	Cap screw M5x12	020 032



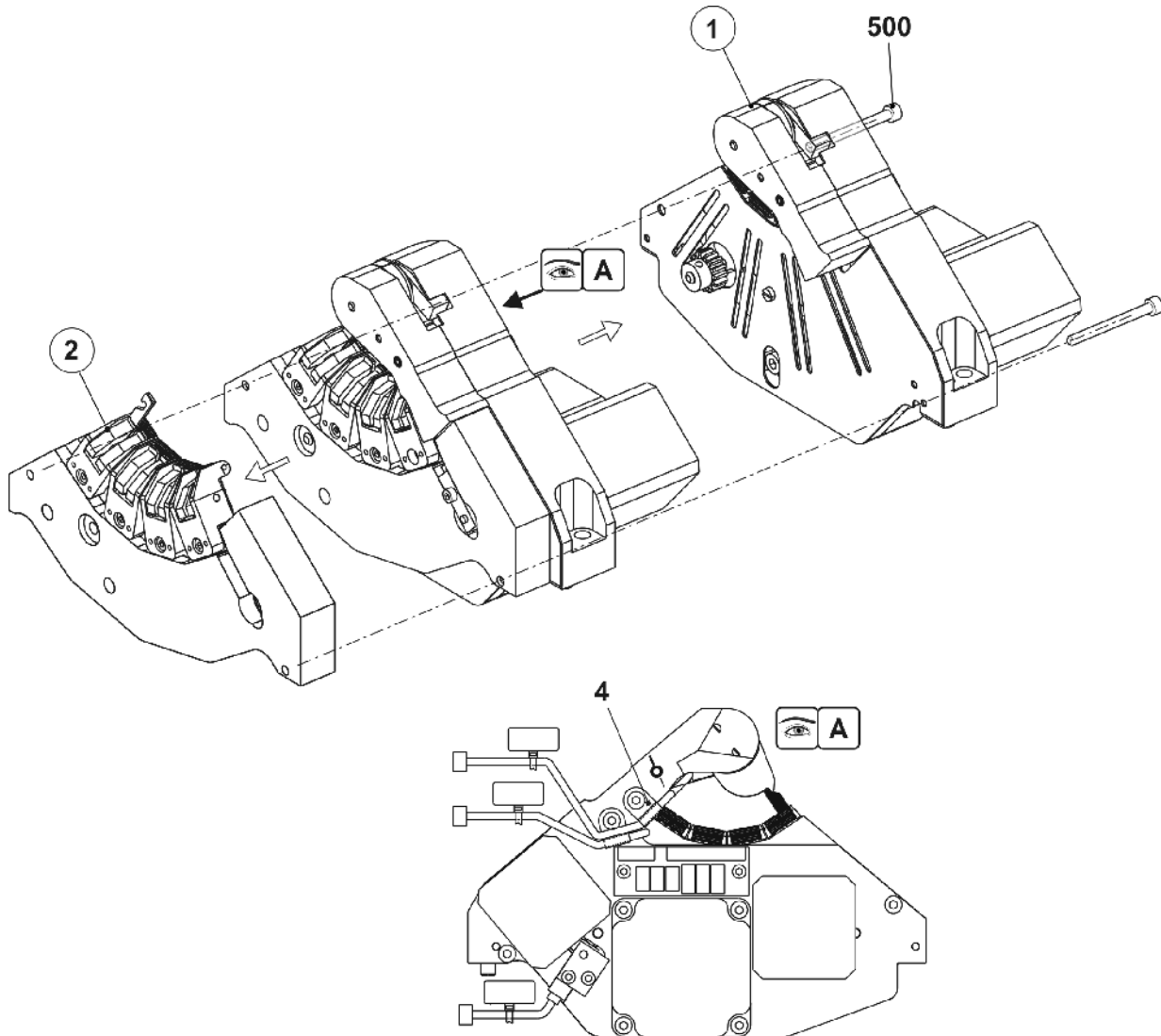
4.6 Continuation needle bed E9.2

Pos	Designation	ID	Pos	Designation	ID
2	Locating wire E7.2+9.2 D=3	254 360	25	Stop screw	235 244
6	Intermediate rail E9.2	254 389	29	Strip guider	254 443
13	Limiter on the left complete E5.2-9.2	236 976	30	Guider	233 023
14	Limiter on the right complete E5.2-9.2	236 977	31	Locating wire E7.2+9.2, D=1,6	254 369
15	Spring steel wire E7.2+9.2 D=0,8	254 362	500	Cap screw M3x6	022 589
16	Spring steel wire E7.2+9.2 D=2	254 363	503	Cap screw M5x12	020 132
17	Locating wire E7.2+9.2 D=2	254 364	45*	Adjusting piece	206 375
21	Cover rail selection E7.2+9.2	254 367	46*	Set screw complete	207 712



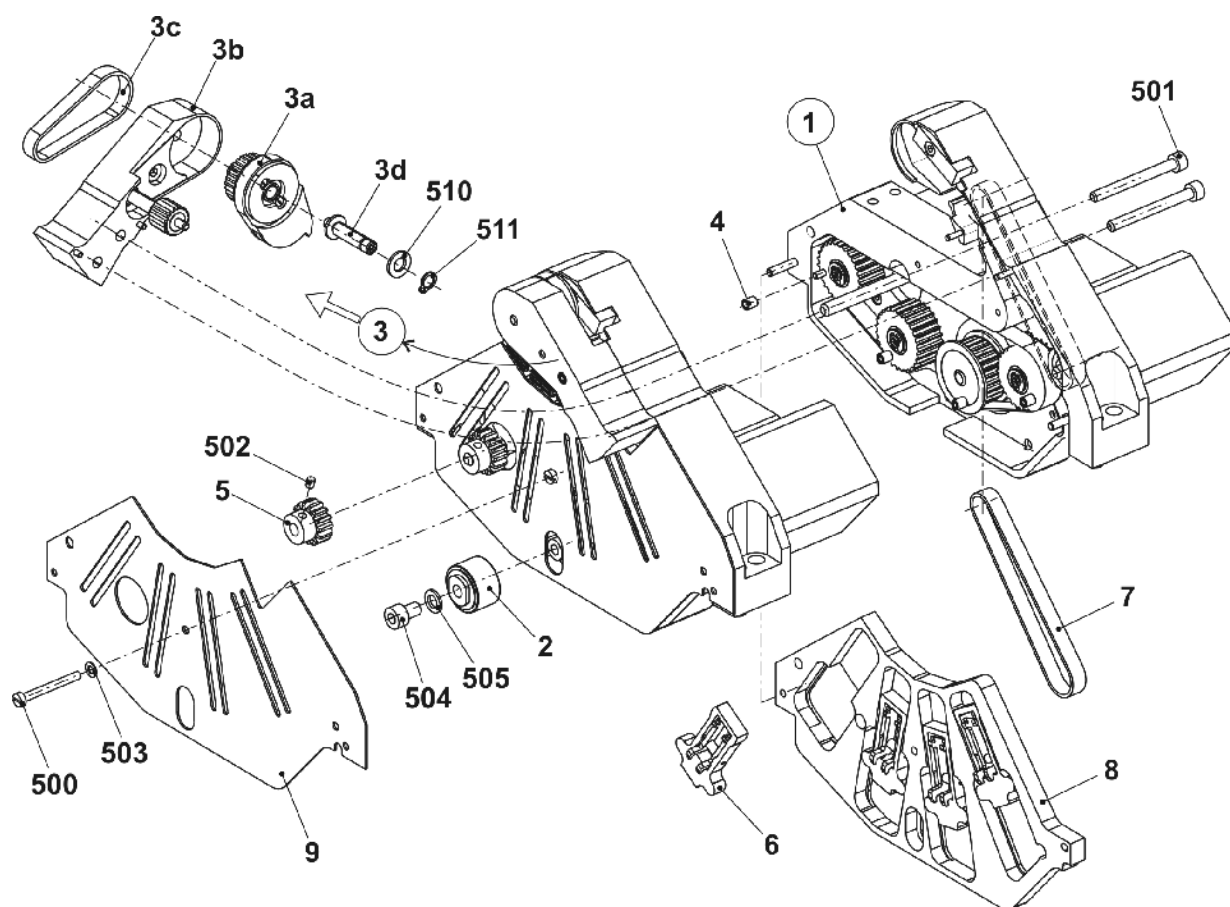
4.7 Thread clamping and cutting device

Pos	Designation	Id	Pos	Designation	Id
Σ	Clamping and cutting complete	214 257			
1	Crankcase complete	214 188	4	Fastening clip 225/3,2	008 321
2	Selection housing complete	214 256	500	Cap screw M4x45	023 419



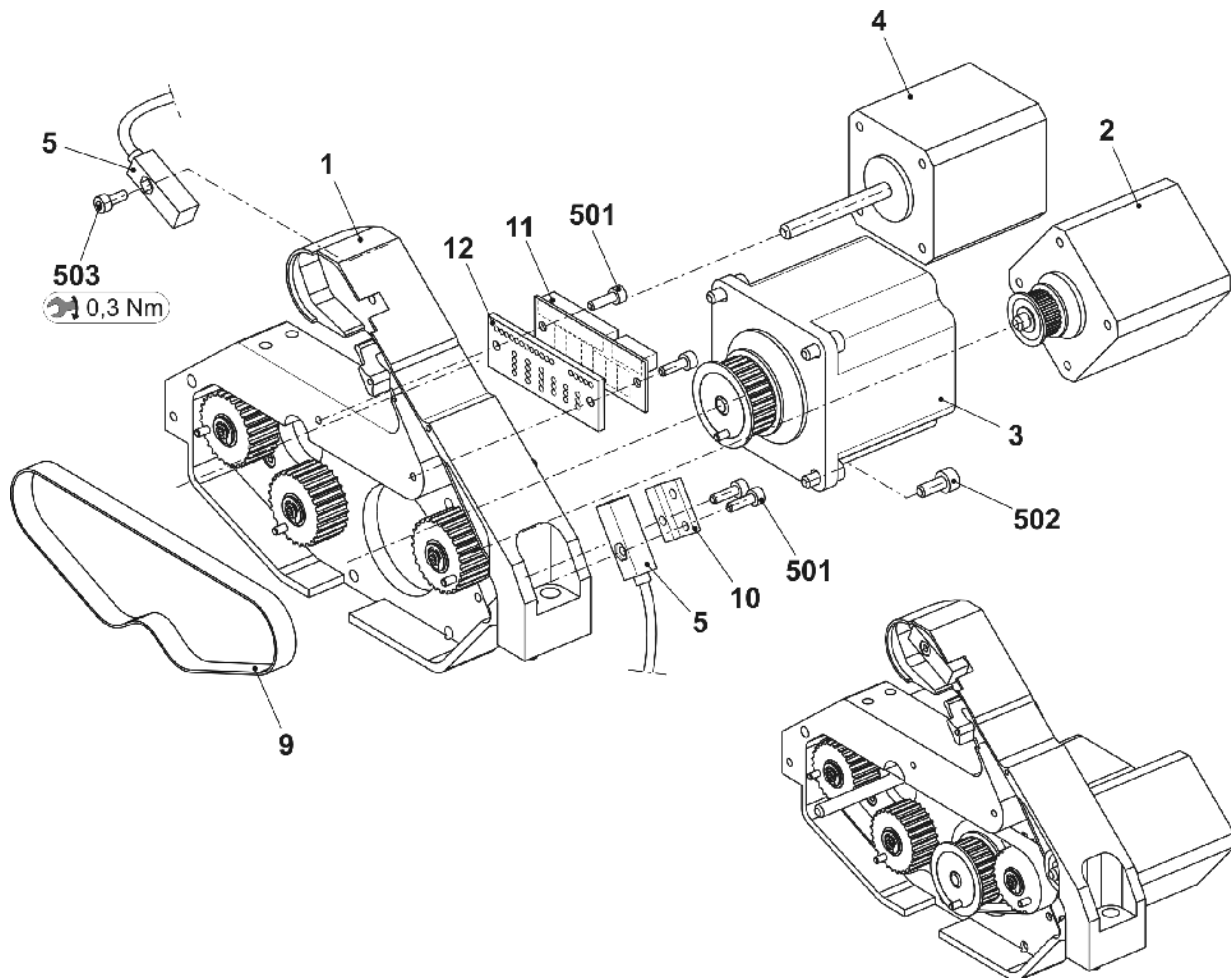
4.7.1 Crankcase

Pos	Designation	ID	Pos	Designation	ID
Σ	Crankcase complete	214 188			
1	Crankcase	215 078	6	Connecting rod slide complete	214 191
2	Tension roller complete	221 211	7	Toothed belt 6M182	213 890
3	Finger support complete	235 501	8	Guiding plate	214 185
3a	Transport segment complete	235 500	9	Intermediate plate	214 704
3b	Finger support	234 993	500	Cap screw M3x28	022 350
3c	Toothed belt 6M111	213 889	501	Cap screw M4x40	023 095
3d	Stay bolt	213 062	502	Setscrew M3x4-45H	022 674
510	Washer A5,3	020 871	503	Washer 3,2	020 877
511	Retaining ring 5x0,6	023 347	504	Cap screw M5x8	023 319
4	Sleeve	214 240	505	Washer 5,3	020 880
5	Spur gear	213 893			



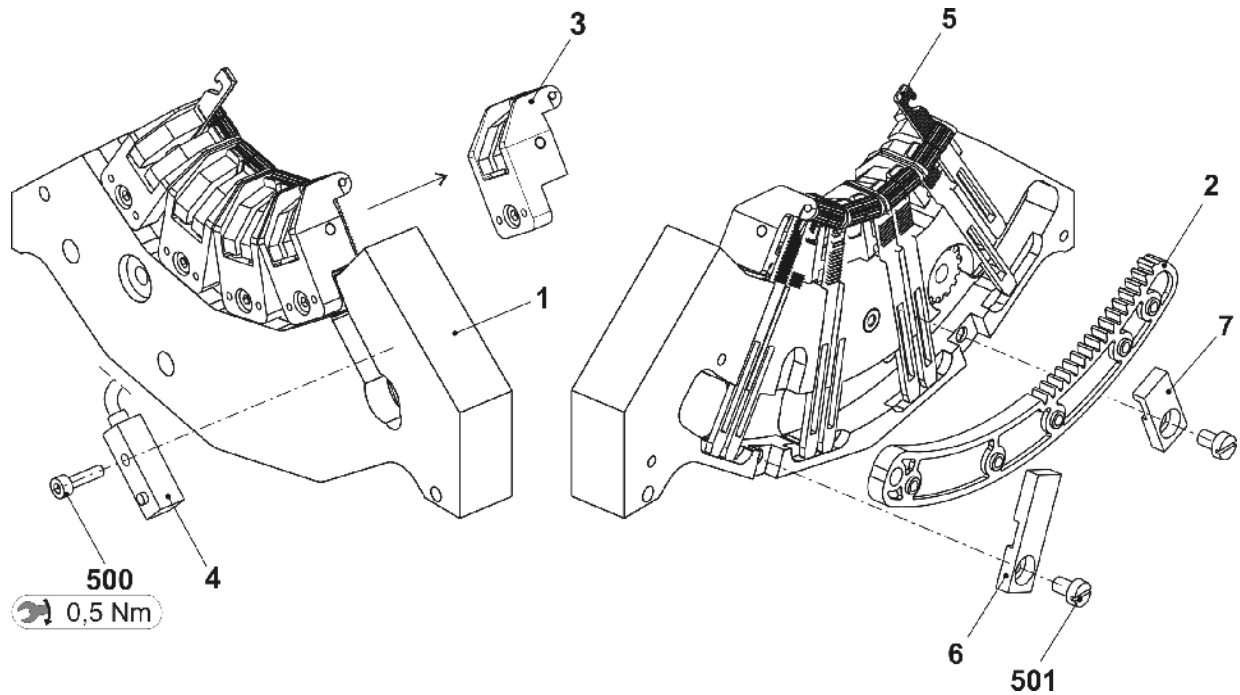
4.7.2 Crankcase with drive

Pos	Designation	Id	Pos	Designation	Id
Σ	Crankcase	215 078			
1	Crankcase	214 182	10	Sensor switch	213 721
2	Transport segment motor complete	213 815	11	Connector board	222 822
3	Step motor complete	213 819	12	Insulating plate	222 933
4	Step motor PK245	213 732	501	Cap screw M3x10	022 991
5	Inductive proximity switch	268 490	502	Cap screw M4x10	023 136
9	Toothed belt80S3M300NG	213 891	503	Cap screw M3x8	022 582



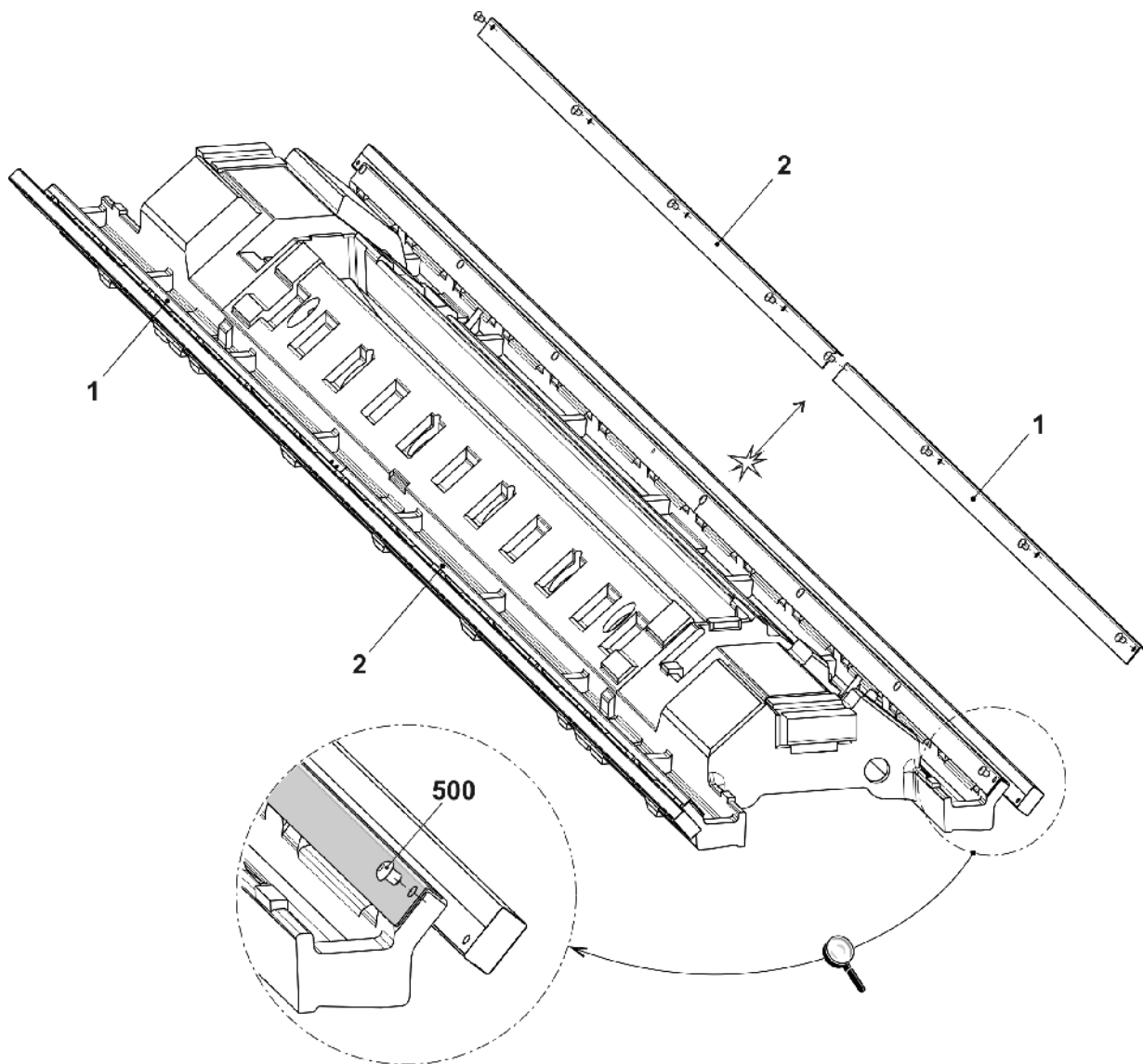
4.7.3 Selection housing

Pos	Designation	Id	Pos	Designation	Id
Σ	Selection housing complete	214 256	5	Clamping and cutting needle	216 408
1	Selector housing	214 288	6	Bridge on the left	224 698
2	Selection slide	227 073	7	Bridge on the right	224 701
3	Blade holder complete	251 720	500	Cap screw M3x12	022 648
4	Inductive proximity switch	268 490	501	Cap screw M4x6	020 019

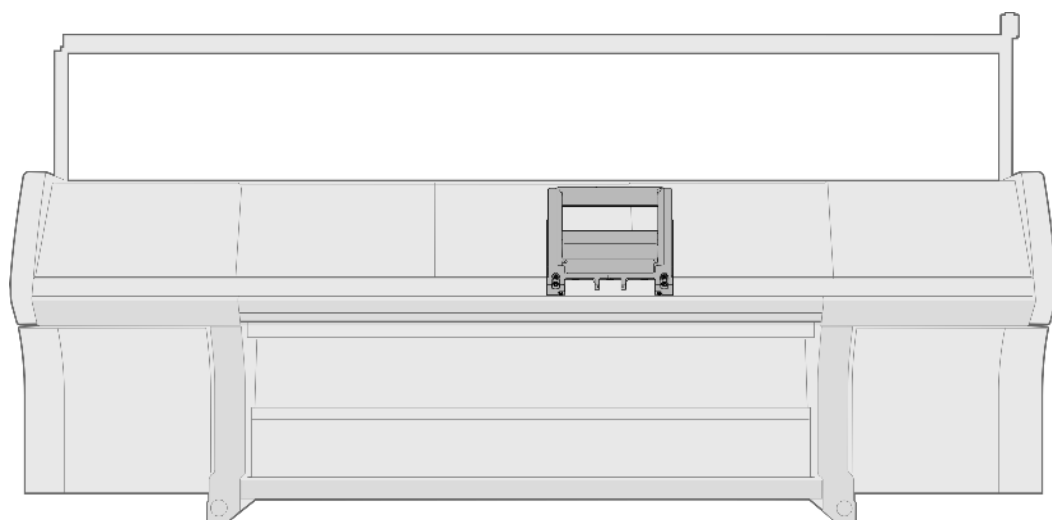


4.8 Cover on the left and on the right

Pos	Designation	ID	Pos	Designation	ID
1	Cover on the left	241 938	500	Pan-head screw M8x10	241 930
2	Cover on the right	241 939			

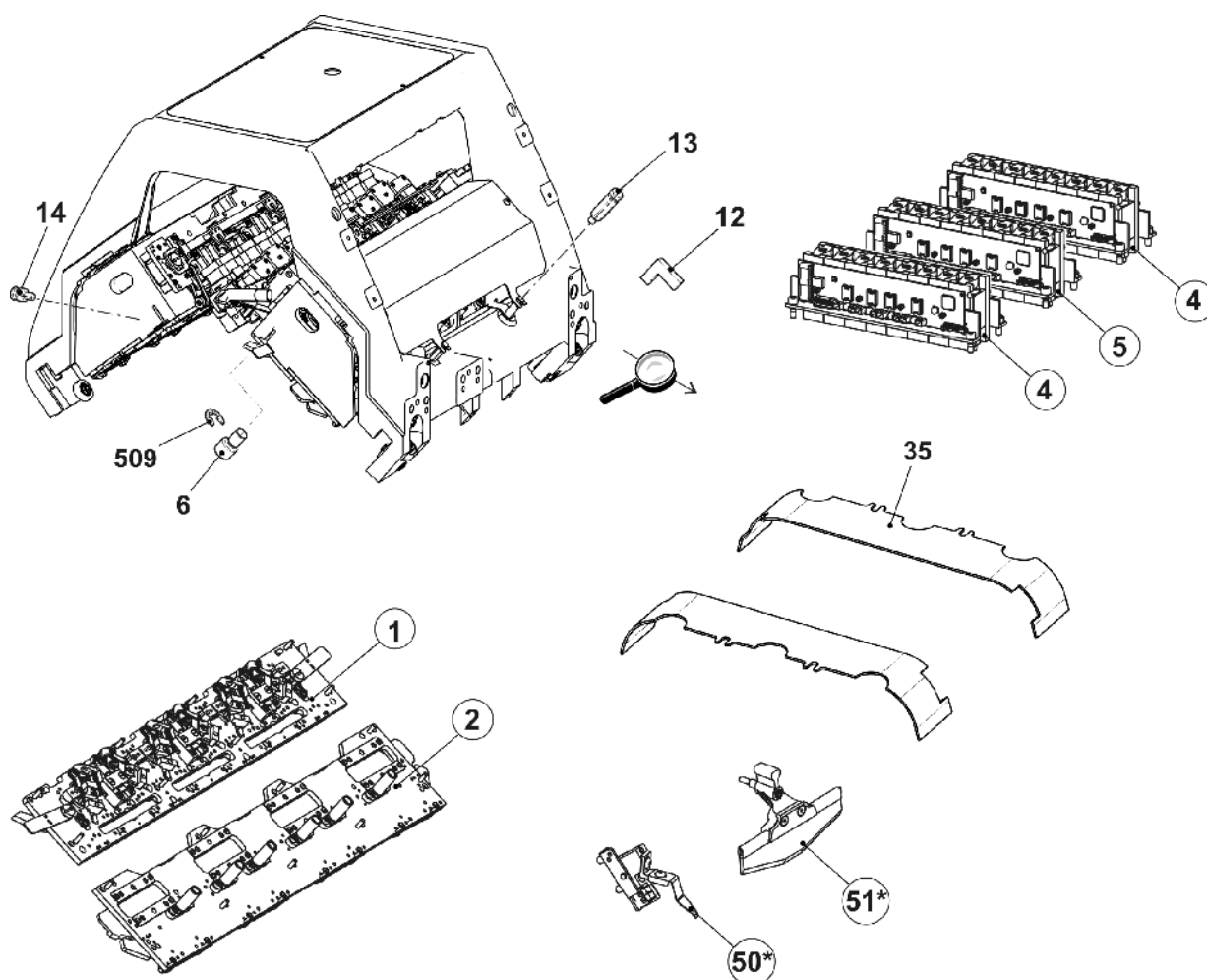


5 Carriage



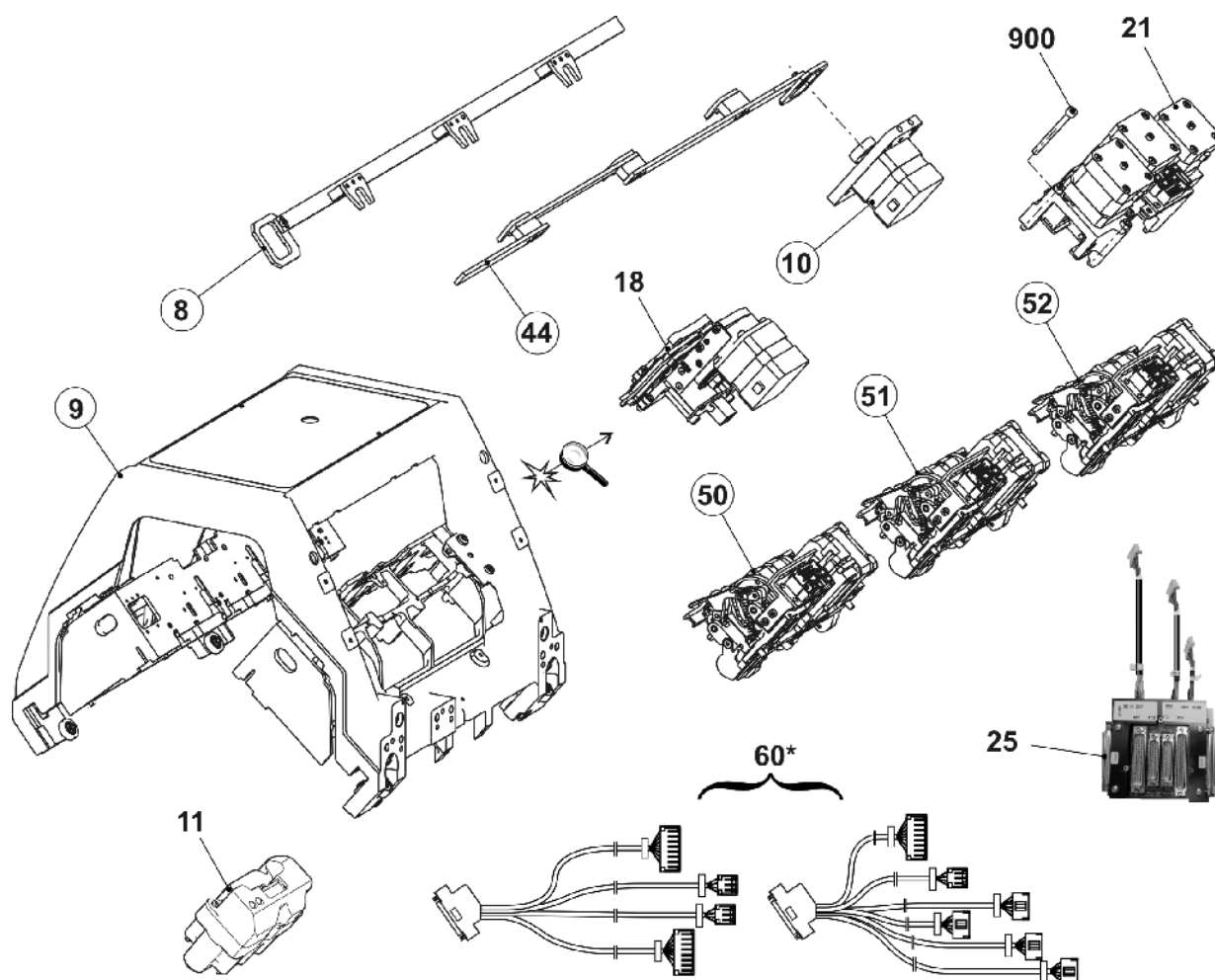
5.1 Overview of carriage

Pos	Designation	Id	Pos	Designation	Id
Σ	Carriage complete		6	Eccentric	244 520
	E3,5.2	268 430	12	Wiper felt	241 411
	E7.2	256 649	13	Bolts	212 204
	E9.2	256 650	14	Bolts	212 392
1	Needle cam complete		35	Cover plate at the top	265 390
	E3,5.2	256 416	501	Cap screw M4x10	023 450
	E7.2	236 143	509	Circlip 3,2	021 019
	E9.2	241 976	50*	Needle detector complete	237 050
2	Jack cam box complete	236 199	51*	Brush holder complete	
	Jack cam box complete E9.2	254 294		E3,5.2	243 077
4	FF driving outside complete	241 080		E7.2	235 410
5	FF driving in the middle complete	241 081		E9.2	243 076



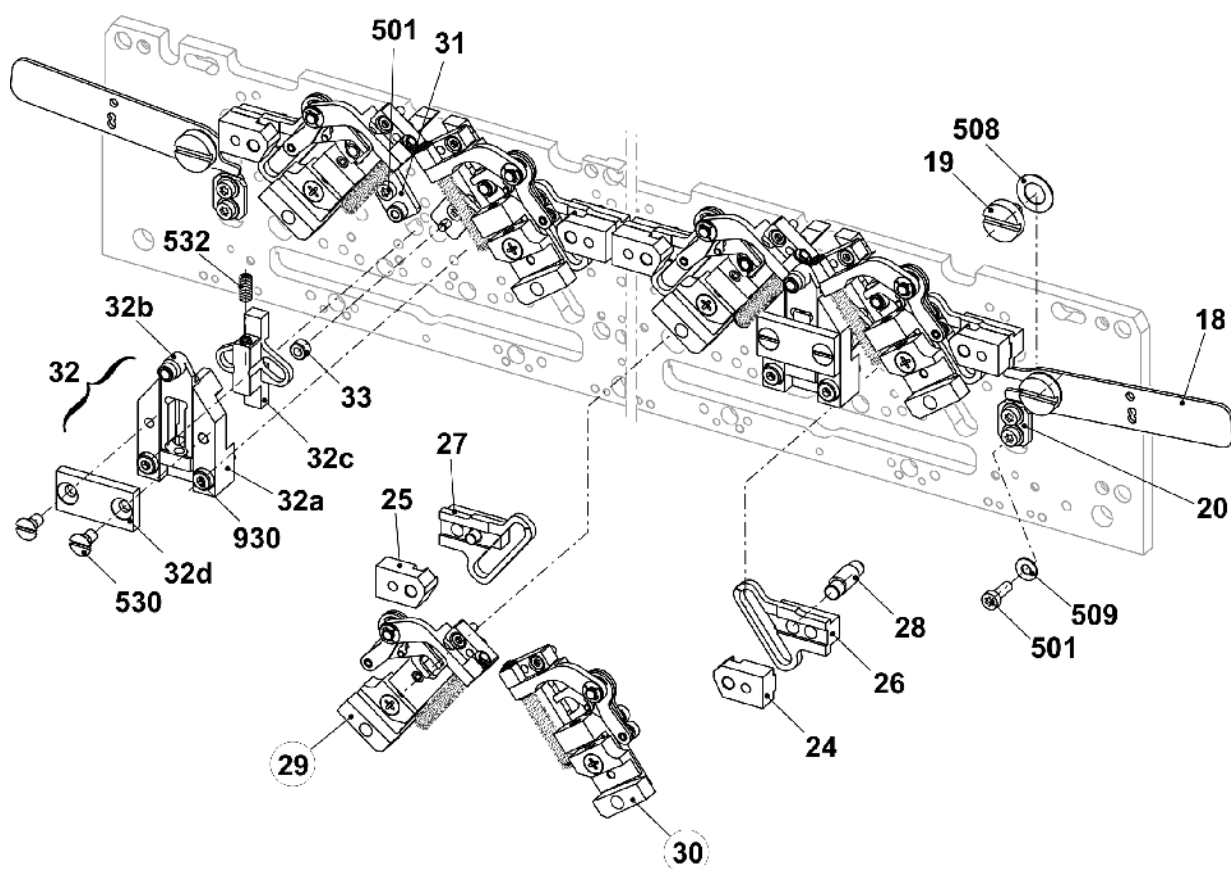
5.2 Overview of carriage, continuation

Pos	Designation	Id	Pos	Designation	Id
Σ	Carriage complete		25	Distributor complete 730S/7830S okc (E3,5.2)	268 510
	E3,5.2	268 430		Distributor complete 730S okc	236 067
	E7.2	256 649	44	Sliding rod complete	242 046
	E9.2	256 650	50	Control unit PL/ES on the left	
8	Sliding rod complete	236 101		E3,5.2	255 109
9	Carriage assembly complete (E3,5.2)	268 429		E7.2	253 972
	Carriage assembly 3 cam boxes 730S	256 498		E9.2	254 242
10	Control unit brush	236 102	51	Control unit PL/ES in the middle	
11	Selection system complete			E3,5.2	255 123
	E3,5.2	216 218		E7.2	253 973
	E14 (E7.2)	229 300		E9.2	254 243
	E16-18 (E9.2)	220 114	52	Control unit PL/ES on the right	
18	Pressure cam control complete			E3,5.2	255 110
	E7.2/E3,5.2	253 197		E7.2	253 974
	E9.2	254 998		E9.2	254 244
21	Motor unit complete (E3,5.2)	268 433	60*	Cable set carriage 730S	236 887
	Motor unit complete (E7.2 und E9.2)	236 121	900	Cap screw M4x45	023 419



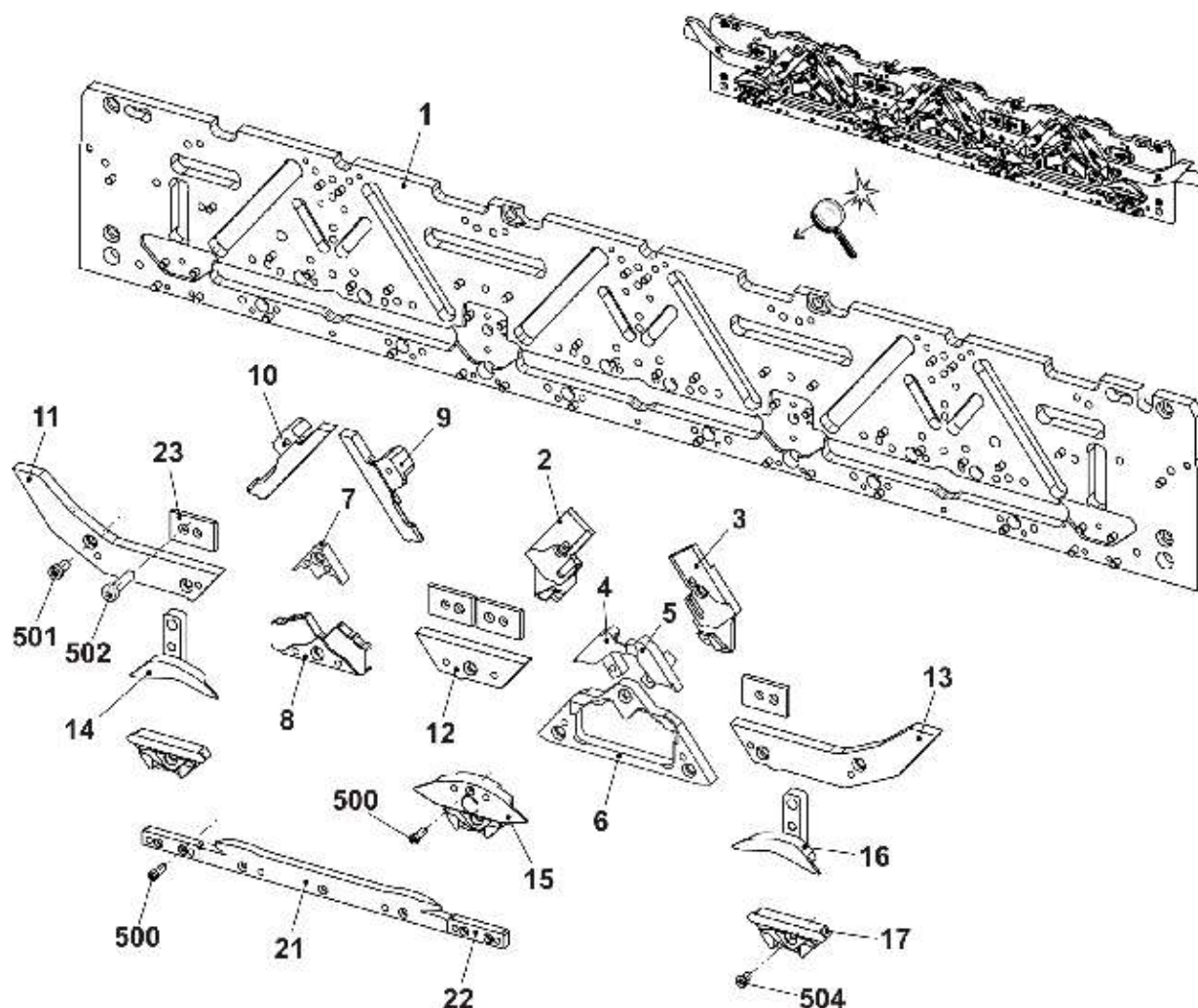
5.3 Cam parts E3,5.2 (Top side)

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle cam complete E3,5.2 + 5.2	256 416	32	Control unit complete	236 293
18	Lever	235 461	32a	Guide block	235 547
19	Shoulder screw	235 462	32b	Switch slide complete	236 144
20	Plate	235 463	32c	Control slide	235 550
24	Support right sliding rod	235 227	32d	Cover plate	235 546
25	Support left sliding rod	235 738	530	Pan-head screw M4x8	020 294
26	Slider on the right 2nd stitch tension	235 230	532	Compression spring 060x3,23x12,5	236 507
27	Slider on the left 2nd stitch tension	235 749	930	Cap screw M4x16	020 131
28	Eccentric	235 237	33	Slide bearing	235 556
29	Loop sinking unit on the left	238 699	501	Cap screw M4x8	020 091
30	Loop sinking unit on the right	238 700	508	Shim ring 8x14x0,5	023 501
31	Bearing plate	235 548	509	Washer 4	020 879



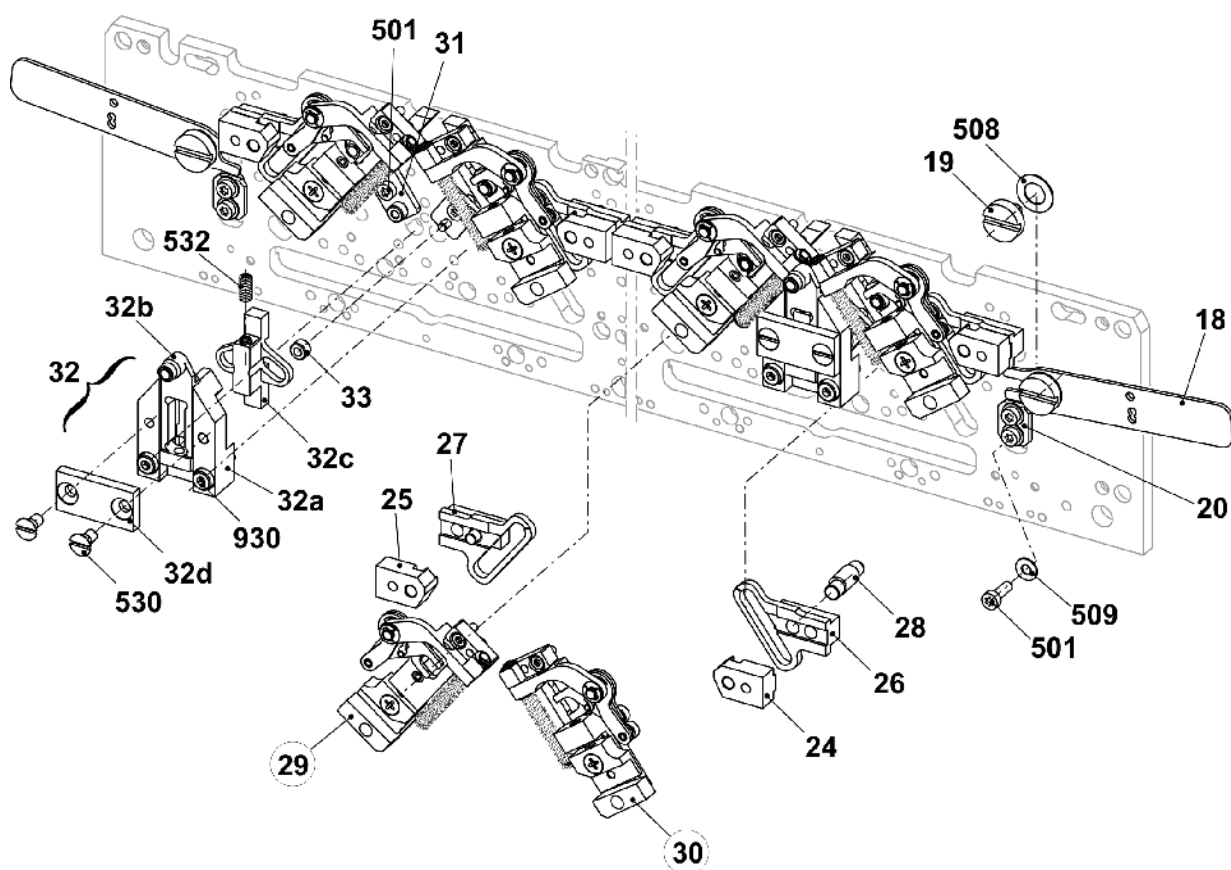
5.3.1 Cam parts E3,5.2 (Bottom side)

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle cam complete E3,5.2 + 5.2	256 416			
1	Cam plate knitting	235 796	13	Entry cam on the right at the top	253 266
2	Stitch cam on the left E3,5.2 + 5.2	253 206	14	Entry cam at the bottom on the left	235 457
3	Stitch cam on the right E3,5.2 + 5.2	253 207	15	Knitting position cam in the middle	236 440
4	Switching part on the left E3,5.2 + 5.2	237 895	16	Entry cam at the bottom on the right	235 459
5	Switching part on the right E3,5.2 + 5.2	237 896	17	Knitting position cam	235 460
6	Raising cam E3,5.2 + 5.2	254 156	21	Pressure strip	235 701
7	Transfer cam E3,5.2 + 5.2	237 898	22	Limiting cam at the bottom	235 702
8	Receiving cam E3,5.2 + 5.2	254 157	23	Guiding plate	235 223
9	Stitch cam on the left 2nd stitch tension complete E5.2	253 210	500	Cap screw M3x8	020 081
10	Stitch cam on the right 2nd stitch tension complete E5.2	253 211	501	Cap screw M4x8	020 091
11	Entry cam on the left at the top	253 265	502	Cap screw M4x16	023 123
12	Entry cam in the middle at the top	253 273	504	Pan-head screw M3x6	020 286



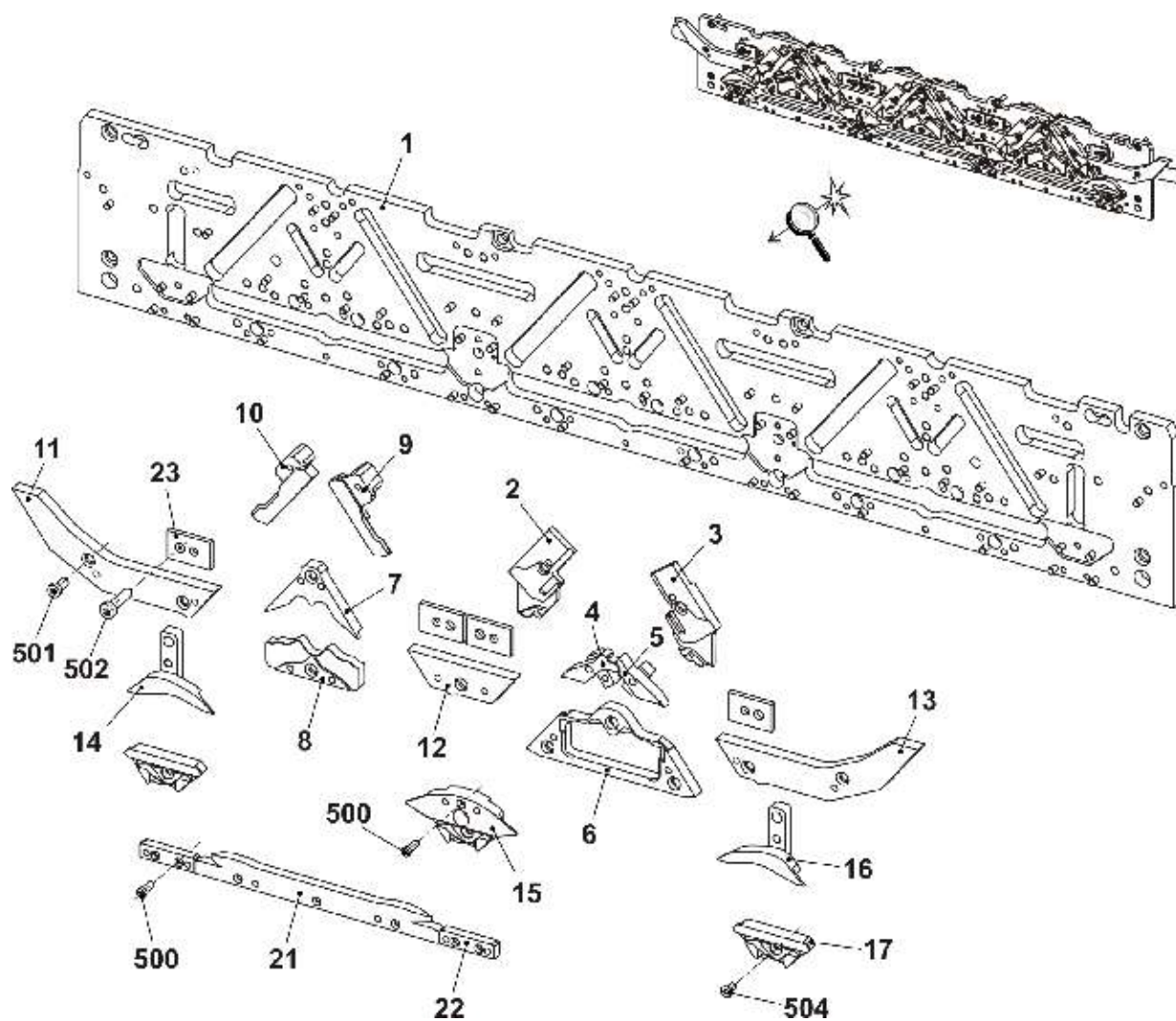
5.4 Cam parts E7.2 (Top side)

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle cam complete E6.2 + 7.2	236 143	32	Control unit complete	236 293
18	Lever	235 461	32a	Guide block	235 547
19	Shoulder screw	235 462	32b	Switch slide complete	236 144
20	Plate	235 463	32c	Control slide	235 550
24	Support right sliding rod	235 227	32d	Cover plate	235 546
25	Support left sliding rod	235 738	530	Pan-head screw M4x8	020 294
26	Slider on the right 2. stitch tension	235 230	532	Compression spring 0,60x3,23x12,5	236 507
27	Slider on the left 2. stitch tension	235 749	930	Cap screw M4x16	020 131
28	Eccentric	235 237	33	Slide bearing	235 556
29	Loop sinking unit on the left	238 699	501	Cap screw M4x8	020 091
30	Loop sinking unit on the right	238 700	508	Shim ring 8x14x0,5	023 501
31	Bearing plate	235 548	509	Washer 4	020 879



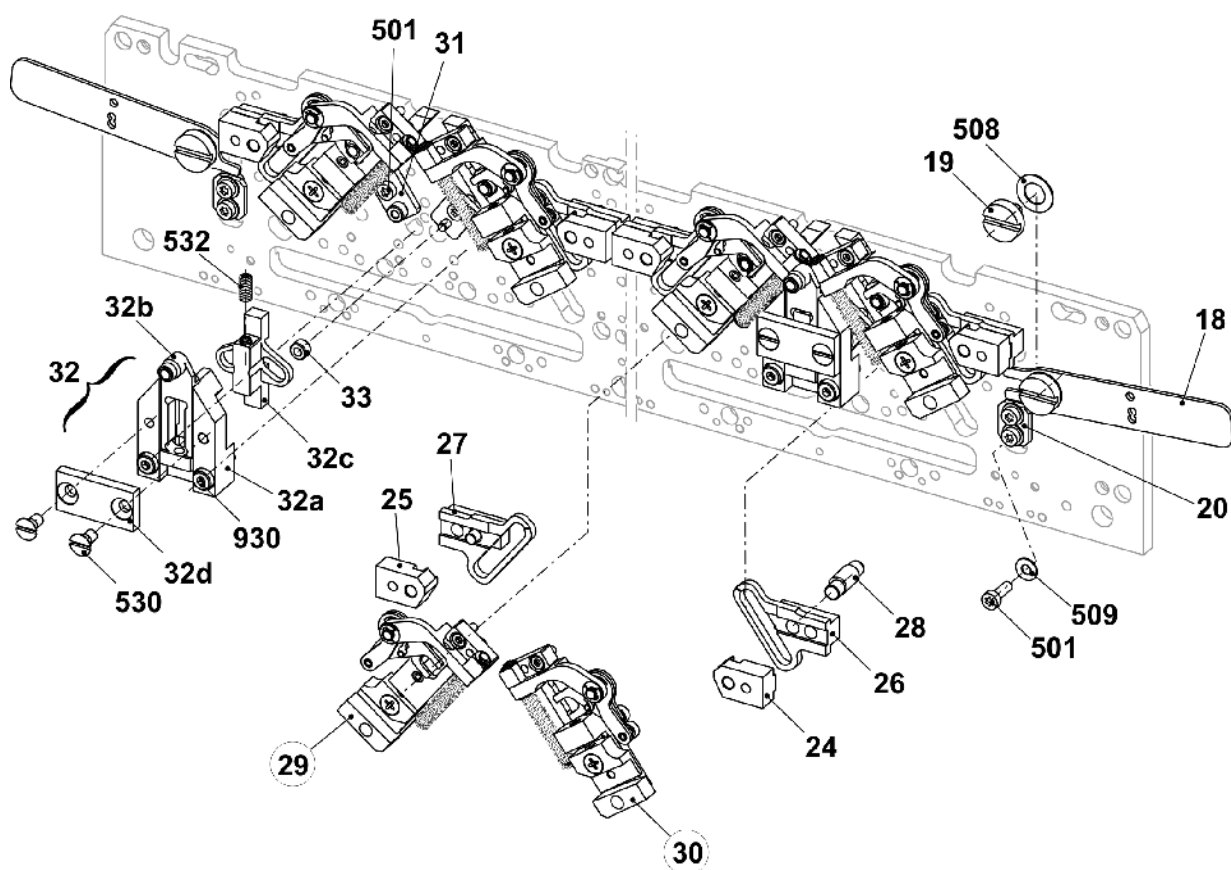
5.4.1 Cams E7.2 (bottom side)

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle cam complete E6.2 + 7.2	236 143			
1	Cam plate knitting	235 796	13	Entry cam on the right at the top	253 266
2	Stitch cam on the left E6.2 + 7.2	253 367	14	Entry cam at the bottom on the left	235 457
3	Stitch cam on the right E6.2 + 7.2	253 368	15	Knitting position cam in the middle	236 440
4	Switching part on the left E6.2 + 7.2	235 426	16	Entry cam at the bottom on the right	235 459
5	Switching part on the right E6.2 + 7.2	235 427	17	Knitting position cam	235 460
6	Raising cam E6.2 + 7.2	251 853	21	Pressure strip	235 701
7	Transfer cam E6.2 + 7.2	235 429	22	Limiting cam at the bottom	235 702
8	Receiving cam E6.2 + 7.2	251 854	23	Guiding plate	235 223
9	Stitch cam on the left 2. stitch tension complete E6.2 + 7.2	253 128	500	Cap screw M3x8	020 081
10	Stitch cam on the right 2. stitch tension complete E6.2 + 7.2	253 129	501	Cap screw M4x8	020 091
11	Entry cam on the left at the top	253 265	502	Cap screw M4x16	023 123
12	Entry cam in the middle at the top	253 273	504	Pan-head screw M3x6	020 286



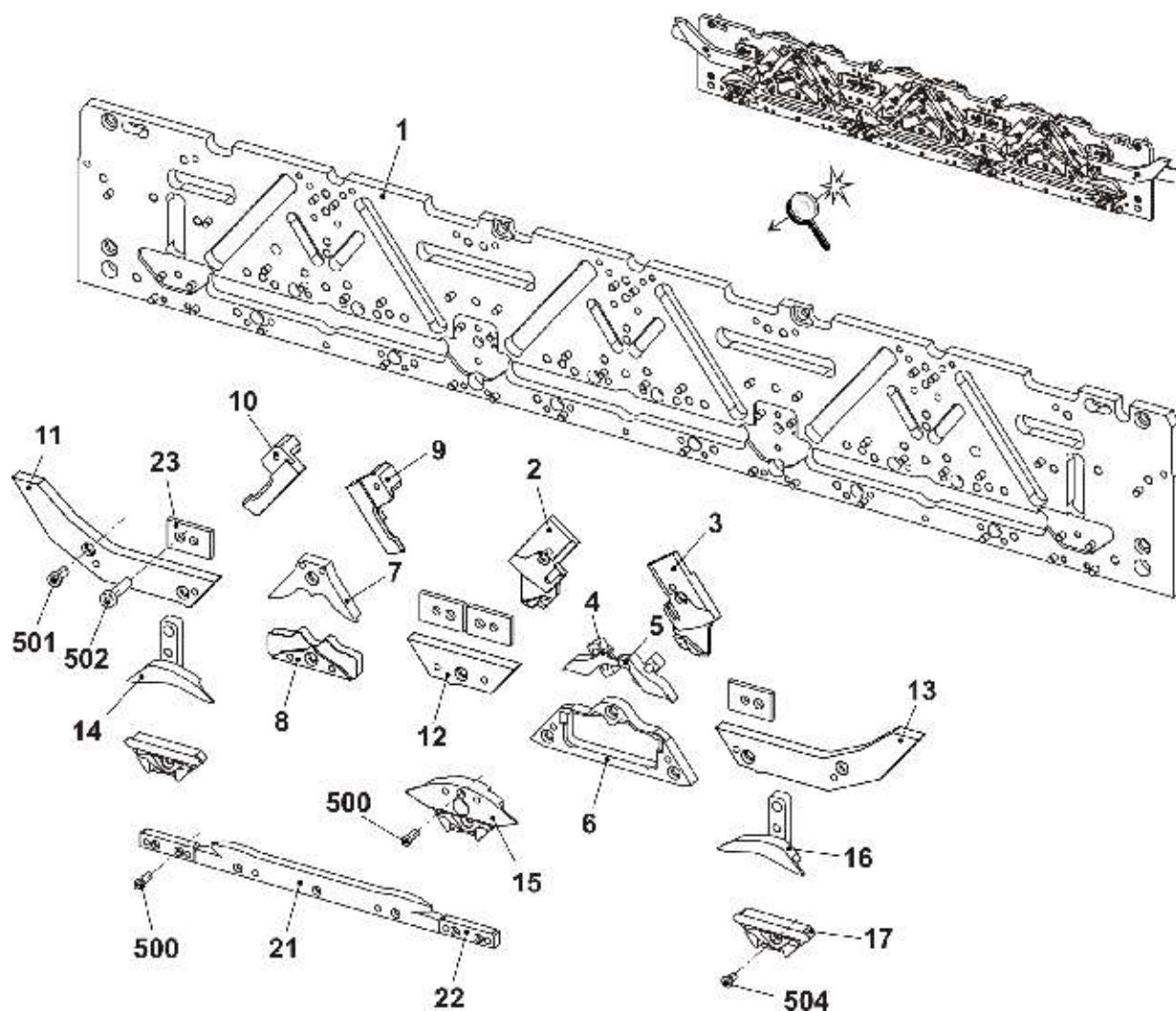
5.5 Cams E9.2 (Top side)

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle cam completeE9.2	241 976	32	Control unit complete	236 293
18	Lever	235 461	32a	Guide block	235 547
19	Shoulder screw	235 462	32b	Switch slide complete	236 144
20	Plate	235 463	32c	Control slide	235 550
24	Support right sliding rod	235 227	32d	Cover plate	235 546
25	Support left sliding rod	235 738	530	Pan-head screw M4x8	020 294
26	Slider on the right 2nd stitch tension	235 230	532	Compression spring 0,60x3,23x12,5	236 507
27	Slider on the left 2nd stitch tension	235 749	930	Cap screw M4x16	020 131
28	Eccentric	235 237	33	Slide bearing	235 556
29	Loop sinking unit on the left	238 699	501	Cap screw M4x8	020 091
30	Loop sinking unit on the right	238 700	508	Shim ring 8x14x0,5	023 501
31	Bearing plate	235 548	509	Washer 4	020 879



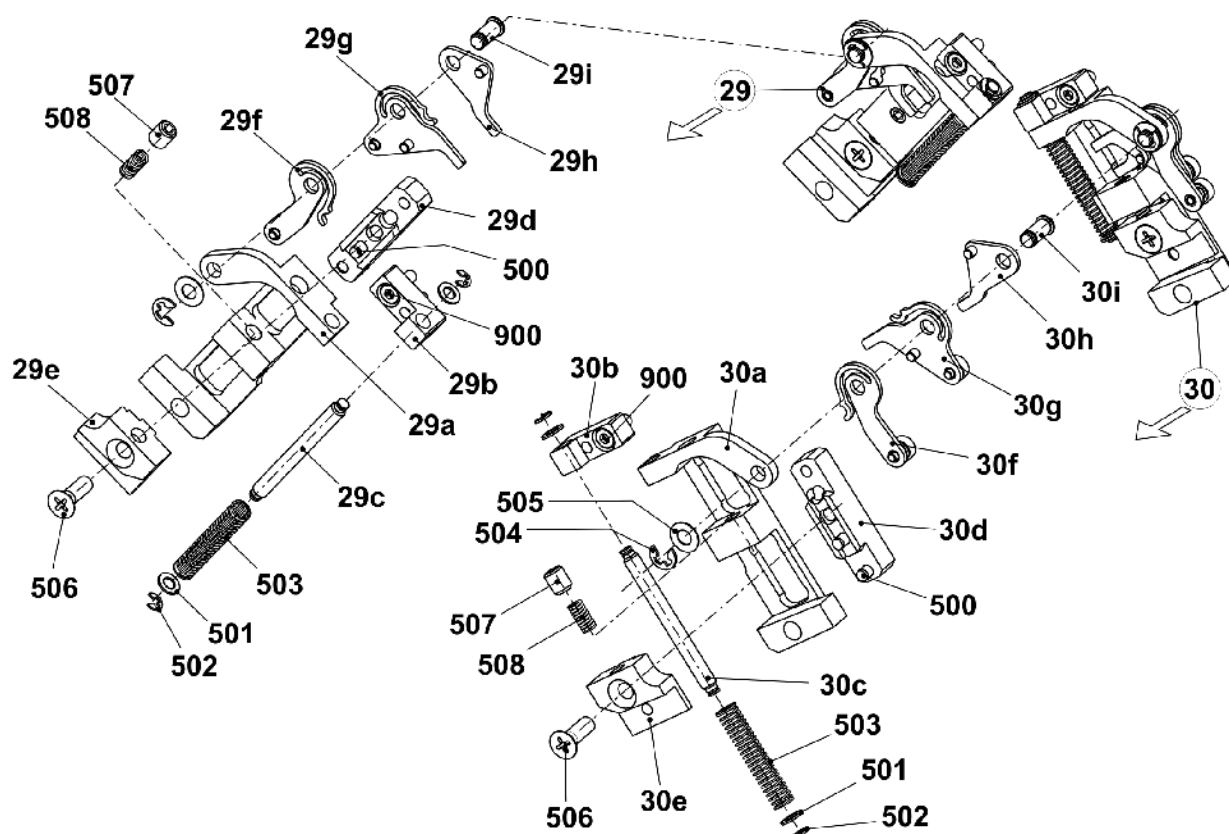
5.5.1 Cams E9.2 (bottom side)

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle cam complete E9.2	241 976			
1	Cam plate knitting	235 796	13	Entry cam on the right at the top	253 266
2	Stitch cam on the left E9.2	252 553	14	Entry cam at the bottom on the left	235 457
3	Stitch cam on the right E9.2	252 554	15	Knitting position cam in the middle	236 440
4	Switching part on the left E9.2	241 466	16	Entry cam at the bottom on the right	235 459
5	Switching part on the right E9.2	241 467	17	Knitting position cam	235 460
6	Raising cam E9.2	252 779	21	Pressure strip	235 701
7	Transfer cam E9.2	241 435	22	Limiting cam at the bottom	235 702
8	Receiving cam E9.2	253 342	23	Guiding plate	235 223
9	Stitch cam on the left 2. stitch tension complete E9.2	253 130	500	Cap screw M3x8	020 081
10	Stitch cam on the right 2. stitch tension complete E9.2	253 131	501	Cap screw M4x8	020 091
11	Entry cam on the left at the top	253 265	502	Cap screw M4x16	023 123
12	Entry cam in the middle at the top	253 273	504	Pan-head screw M3x6	020 286



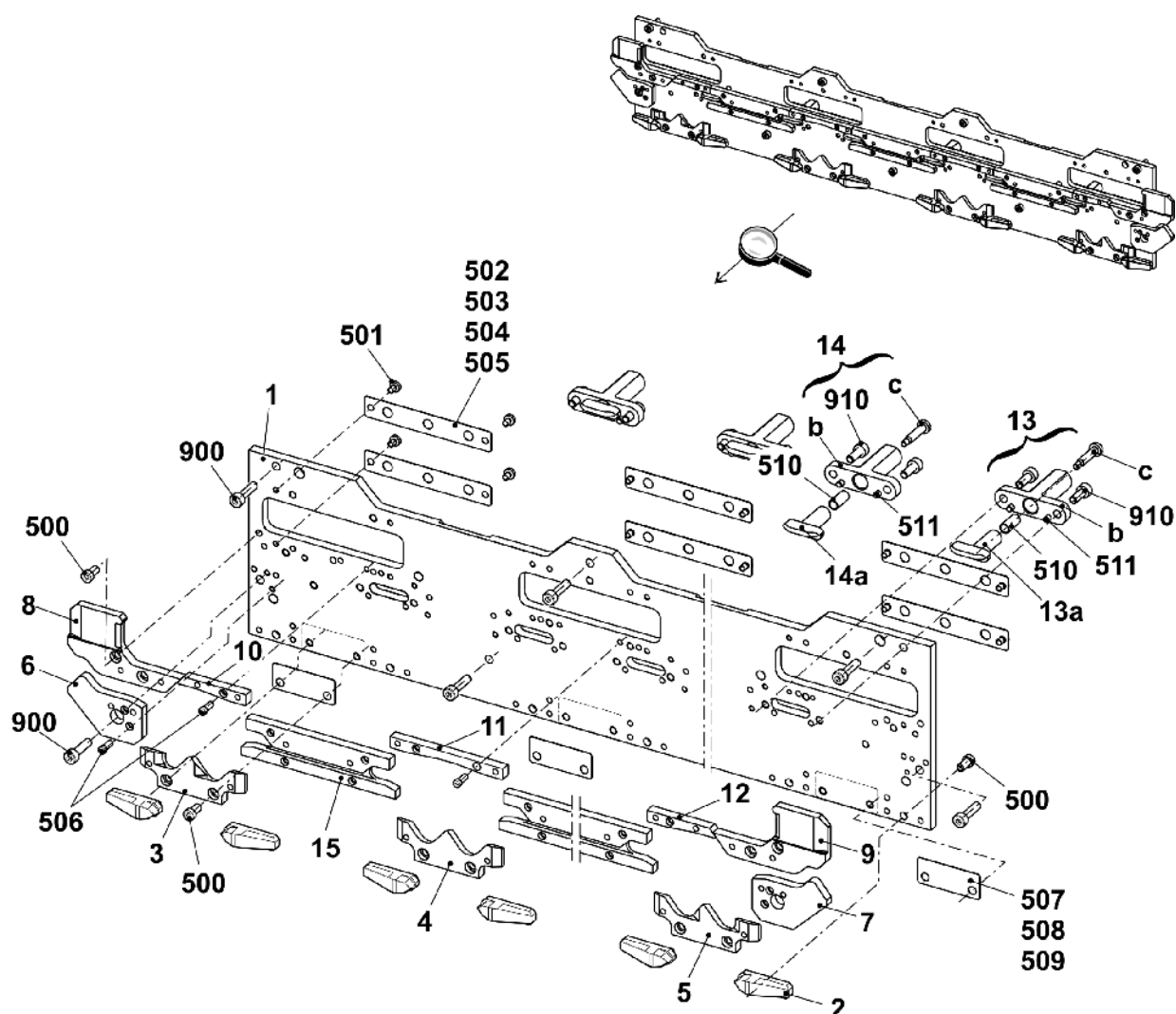
5.6 Loop sinking cam on the left and right

Pos	Designation	Id	Pos	Designation	Id
29	Loop sinking cam on the left	238 699	30	Loop sinking cam on the right complete E5 - E10	238 700
29a	Loop sinking cam on the left	235 753	30a	Loop sinking cam on the right complete E5 - E10	235 232
29b	Rod guide part	235 229	30b	Rod guide part	235 229
29c	Spring rod	235 239	30c	Spring rod	235 239
29d	Guide part	238 092	30d	Guide part	238 092
29e	Pressure pad on the left	238 093	30e	Pressure pad on the right	238 094
29f	Lever 2 on the left complete	238 681	30f	Lever 2 on the right complete	238 682
29g	Lever 1 on the left complete	238 696	30g	Lever 1 on the right complete	238 697
29h	Lever 3 on the left complete	238 686	30h	Lever 3 on the right complete	238 685
29i	Bolts	235 238	30i	Bolts	235 238
500	Dowel pin 3x6	020 642	500	Dowel pin 3x6	020 642
501	Washer 3	020 877	501	Washer 3	020 877
502	Circlip 1,9	023 565	502	Circlip 1,9	023 565
503	Compression spring 0,45x5,05x63,14	023 706	503	Compression spring 0,45x5,05x63,14	023 706
504	Circlip 3,2	021 019	504	Circlip 3,2	021 019
505	Shim ring 4x8x0,3	023 428	505	Shim ring 4x8x0,3	023 428
506	Pan-head screw M4x12	023 075	506	Pan-head screw M4x12	023 075
507	Setscrew M5x6	022 580	507	Setscrew M5x6	022 580
508	Compression spring 0,60x3,23x12,50	236 507	508	Compression spring 0,60x3,23x12,50	236 507
900	Cap screw M3x8	022 582	900	Cap screw M3x8	022 582



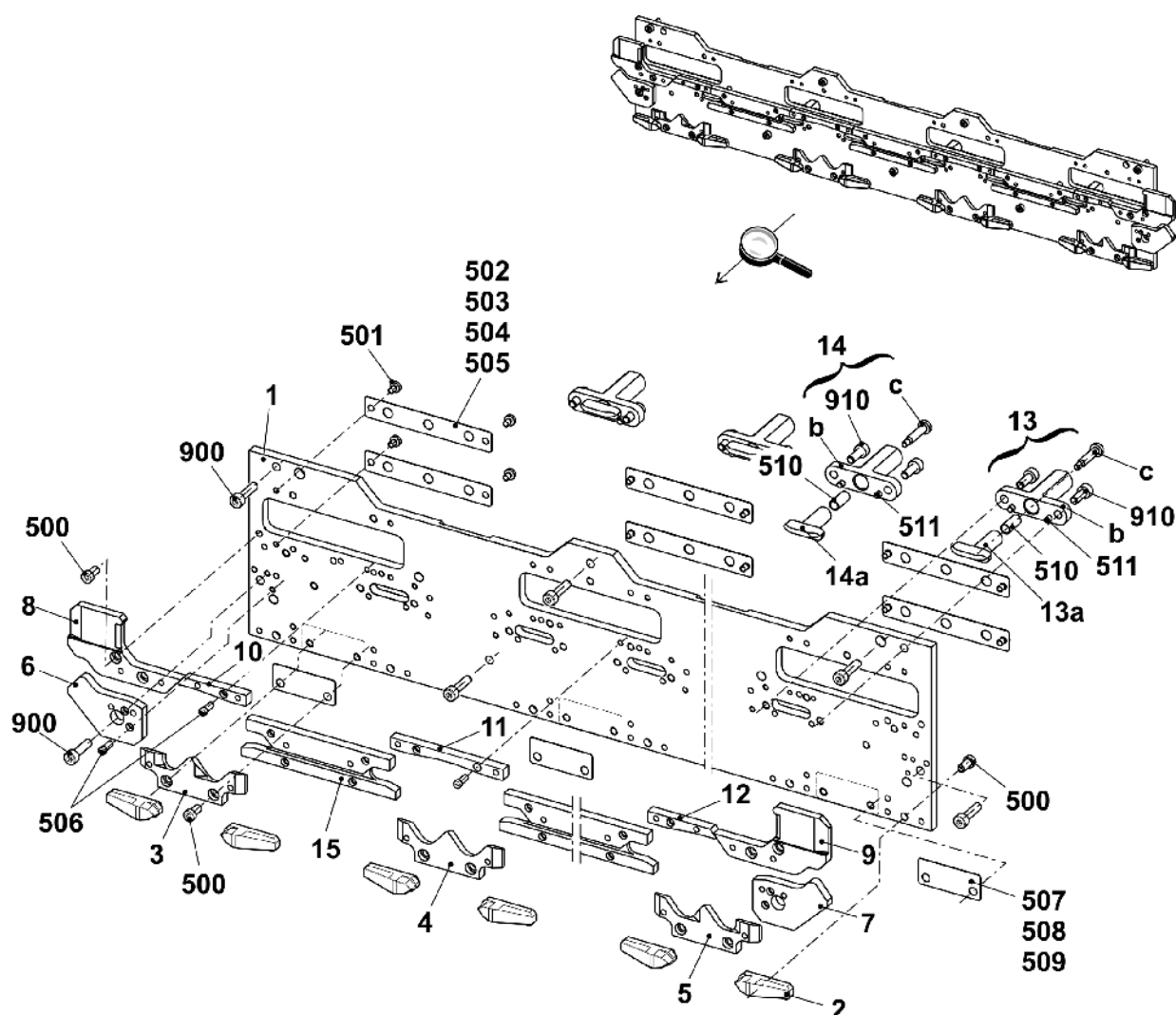
5.7 Jack cam E3,5.2 + E7.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Jack cam box complete	236 199	13	510 Compression spring 0,40x5,00x23,70	236 951
1	Cam plate selection	235 795	511	Setting pin 3x8	020 644
2	Offering cam	229 906	910	Cap screw M4x10	023 136
3	Selection cam on the left	235 961	14	Limiting cam on the left complete	236 966
4	Selection cam	235 762	14a	Limiting cam on the left	236 009
5	Selection cam on the right	235 962	15	Limiting cam	241 721
6	Cam on the left	237 592	500	Cap screw M4x8	020 091
7	Cam part at the right	237 593	501	Pan-head screw M3x4	023 142
8	Cam on the left	237 590	502	Shim0,03x12x75	022 828
9	Cam part at the right	237 591	503	Shim0,05x12x75	022 829
10	Limiting cam on the left	241 722	504	Shim0,10x12x75	022 830
11	Limiting cam in the middle	241 723	505	Shim0,2x12x75	022 831
12	Limiting cam on the right	241 724	506	Cap screw M3x8	020 081
13	Limiting cam on the right complete	236 965	507	Shim selection cam 0,05	242 495
13a	Limiting cam on the right	236 008	508	Shim selection cam 0,1	242 496
b	Guide	236 006	509	Shim selection cam 0,2	242 497
c	Shoulder screw	236 004	900	Cap screw M4x16	020 131



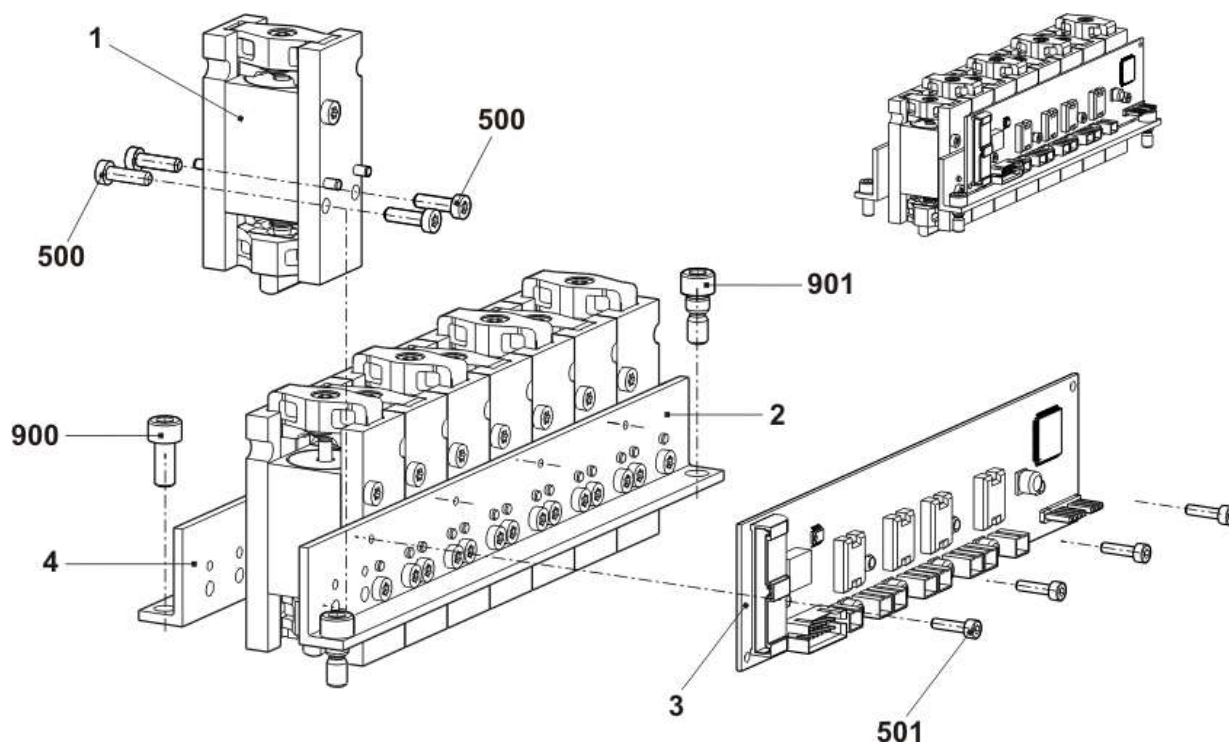
5.8 Jack cam box E9.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Jack cam box complete E9.2	254 294	13	510 Compression spring 0,40x5,00x23,70	236 951
1	Cam plate selection	235 795	511	Dowel pin 3x8	020 644
2	Offering cam	229 906	910	Cap screw M4x10	023 136
3	Selection cam on the left	242 347	14	Limiting cam on the left complete	236 966
4	Selection cam	242 348	14a	Limiting cam on the left	236 009
5	Selection cam on the right	242 349	15	Limiting cam	241 721
6	Cam on the left	237 592	500	Cap screw M4x8	020 091
7	Cam part at the right	237 593	501	Pan-head screw M3x4	023 142
8	Cam on the left	237 590	502	Shim0,03x12x75	022 828
9	Cam part at the right	237 591	503	Shim0,05x12x75	022 829
10	Limiting cam on the left	241 722	504	Shim0,10x12x75	022 830
11	Limiting cam in the middle	241 723	505	Shim0,2x12x75	022 831
12	Limiting cam on the right	241 724	506	Cap screw M3x8	020 081
13	Limiting cam on the right complete	236 965	507	Shim selection cam 0,05	242 495
13a	Limiting cam on the right	236 008	508	Shim selection cam 0,1	242 496
b	Guide	236 006	509	Shim selection cam 0,2	242 497
c	Shoulder screw	236 004	900	Cap screw M4x16	020 131



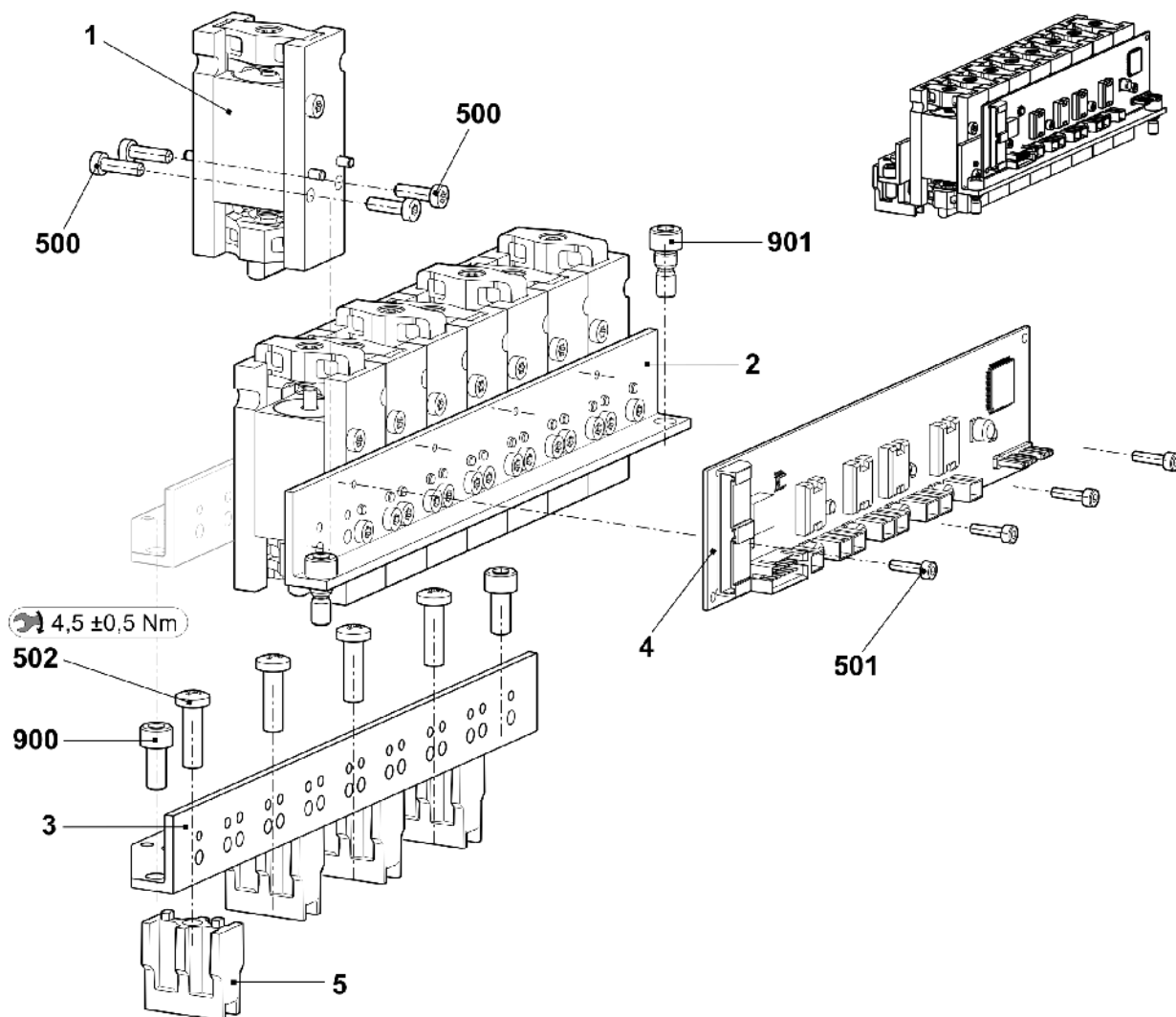
5.9 Yarn carrier driving without guide part

Pos	Designation	Id	Pos	Designation	Id
Σ	YC driving outside complete	241 080			
1	Yarn carrier plunger complete	242 214	500	Cap screw M4x14-I-Torx	242 279
2	Holding angle for jack	241 038	501	Cap screw M3x12-12.9	022 648
3	Card yarn carrier final stagesOKC	300 960	900	Cap screw M6x14	022 658
4	Holding angle for YC driving	242 903	901	Shoulder screw	231 899



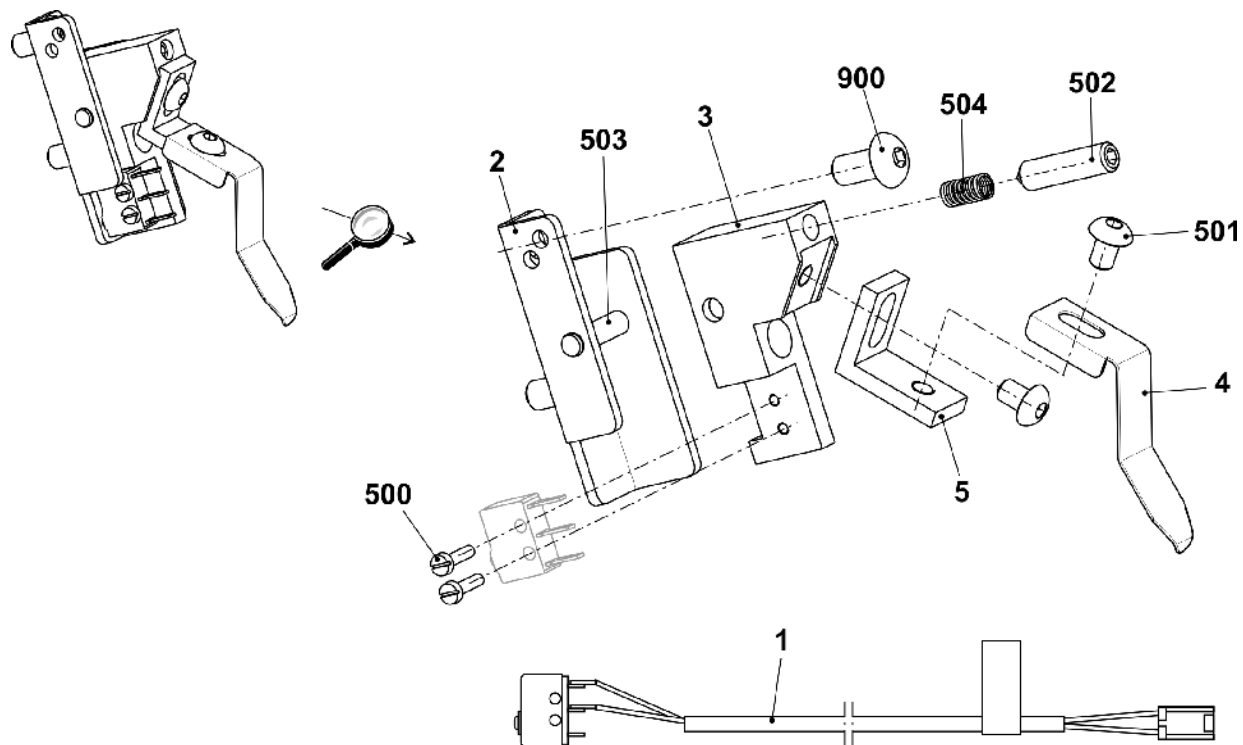
5.10 Yarn carrier driving with guide part

Pos	Designation	Id	Pos	Designation	Id
Σ	FF driving in the middle complete	241 081			
1	Yarn carrier plunger complete	242 214	500	Cap screw M4x14-I-Torx	242 279
2	Holding angle for jack	241 038	501	Cap screw M3x12-12.9	022 648
3	Holding angle for YC driving	241 044	502	Screw KB60X20	243 625
4	Card yarn carrier final stagesOKC	300 960	900	Cap screw M6x14	022 658
5	Guide part	239 972	901	Shoulder screw	231 899



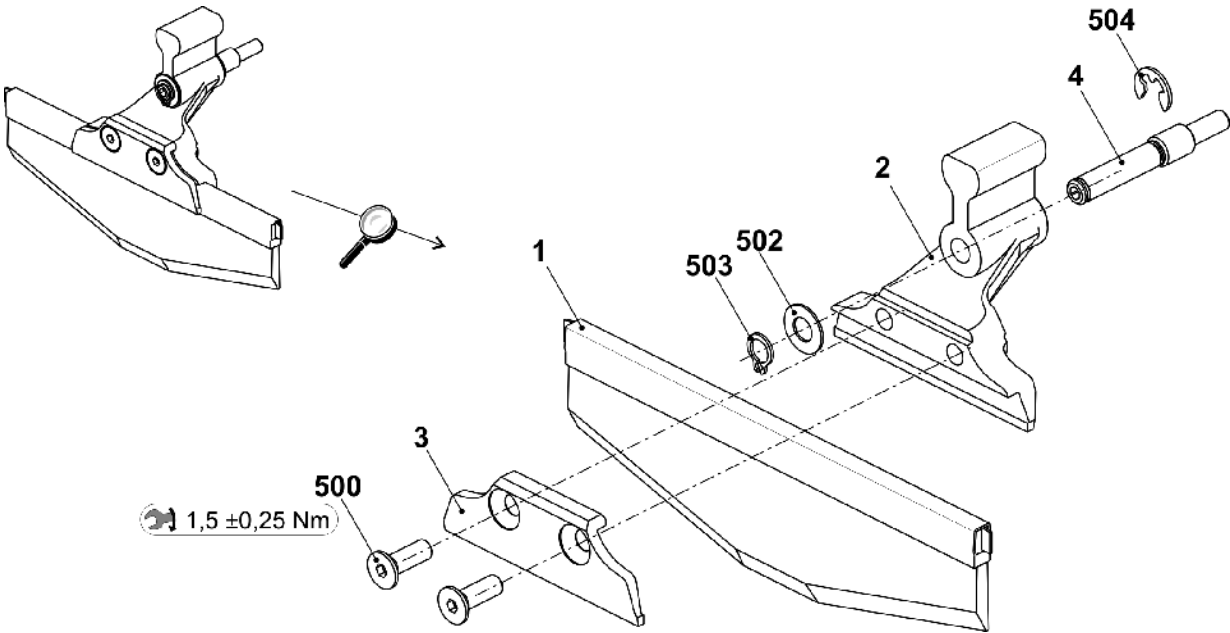
5.11 Needle detector

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle detector complete	237 050	500	Cap screw M2x8	258 310
1	Cable needle detector TC-S	235 728	501	Pan-head screw M4x6	023 427
2	Retainer	235 668	502	Setscrew M5x20	023 526
3	Switch rocker	220 637	503	Dowel pin 4x8	023 525
4	Sensor E16-20	252 239	504	Compression spring 4,3x0,45x10	021 398
5	Angle	221 175	900	Pan-head screw M5x10	023 247



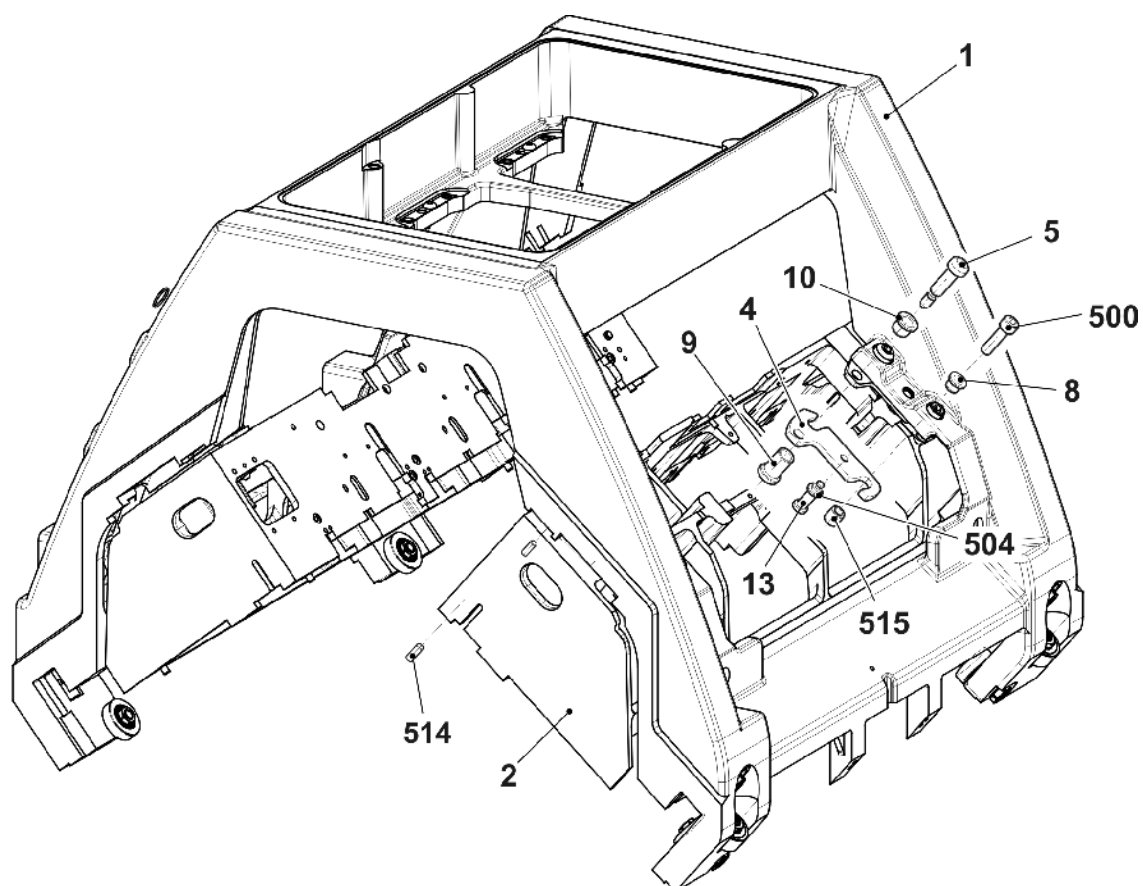
5.12 Brush holder

Pos	Designation	Id	Pos	Designation	Id
Σ	Brush holder E3,5.2	243 077	1	BrushE4-8	203 254
	Brush holderE6.2-7.2	235 410		BrushE6.2-7.2	243 074
	Brush holderE9.2	243 076		BrushE9.2	237 977
2	Brush holder	235 411	500	Pan-head screw M4x12	023 062
3	Brush clamp	213 010	502	Shim ring 5x10x0,5	023 348
4	Threaded rod	242 066	503	Retaining ring5x0,6	023 347
			504	Circlip4	021 020



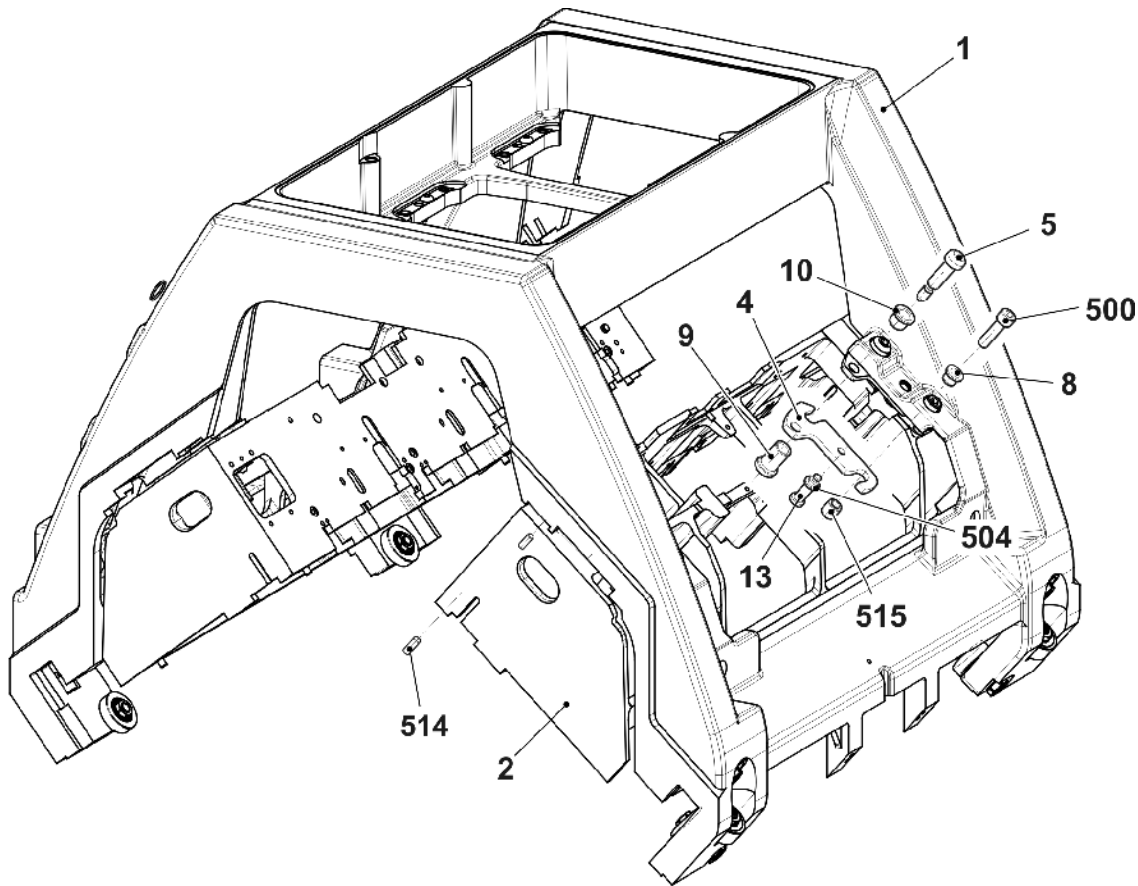
5.13 Carriage assembly (E3,5.2)

Pos	Designation	Id	Pos	Designation	Id
Σ	Carriage assembly complete	268 429			
1	Carriage frame	264 818	10	Bush	209 274
2	Carriage part	268 427	13	Locating bolt linking spot	244 179
4	Shim	225 312	500	Cap screw M8x30	020 143
5	Shoulder screw	267 175	504	Safety disk 6	021 022
8	Bush	207 546	514	Dowel pin 5x14	020 670
9	Bush	267 183	515	Threaded bush M12x11,5	041 863



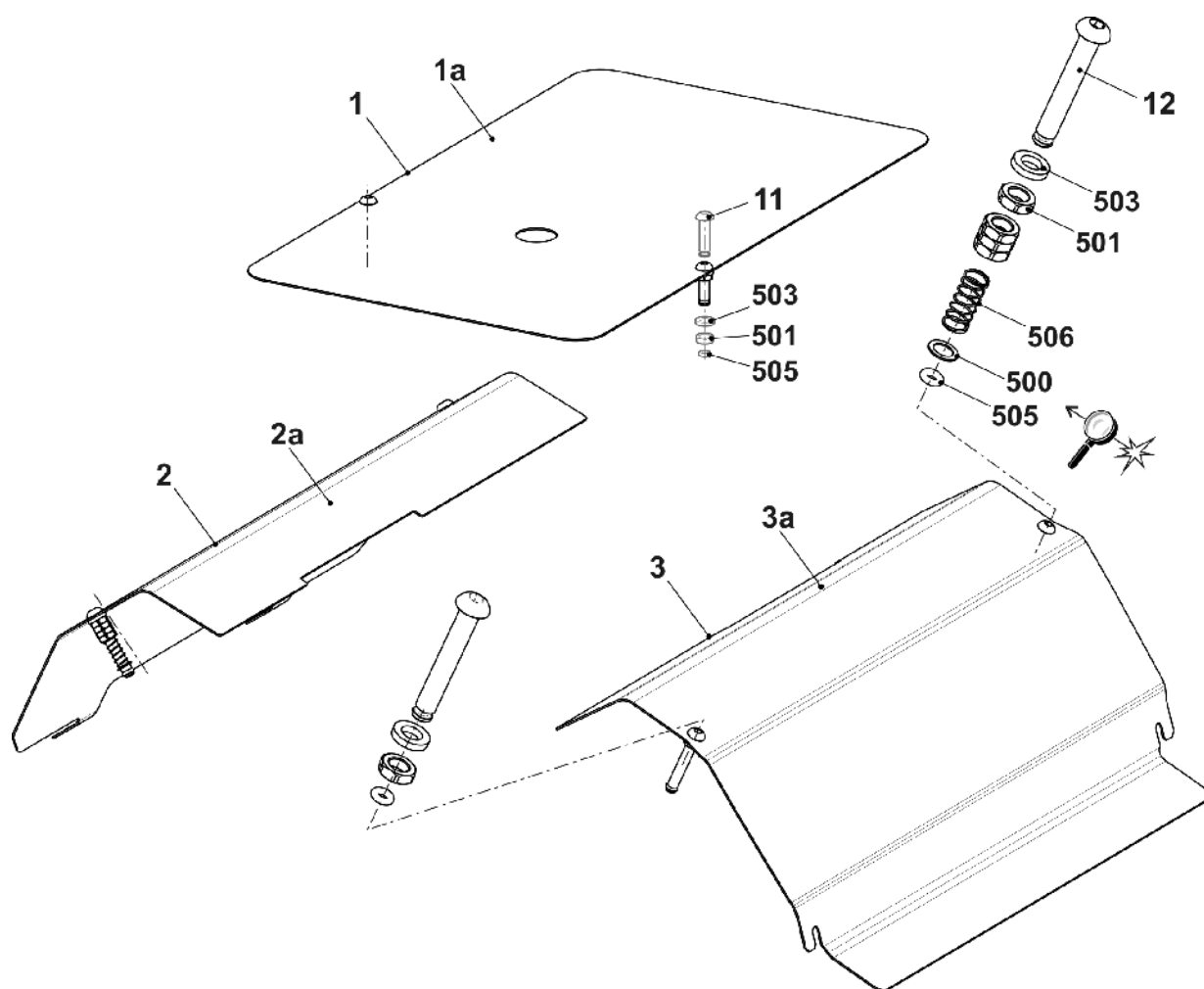
5.14 Carriage assembly (E7.2 and E9.2)

Pos	Designation	Id	Pos	Designation	Id
Σ	Carriage assembly 3 cam boxes	256 498			
1	Carriage frame	264 818	10	Bush	209 274
2	Carriage part, 3- cam box	241 241	13	Locating bolt linking spot	244 179
4	Shim	225 312	500	Cap screw M8x30	020 143
5	Shoulder screw	211 750	504	Safety disk 6	021 022
8	Bush	207 546	514	Dowel pin 5x14	020 670
9	Bush	209 275	515	Threaded bush M12x11,5	041 863



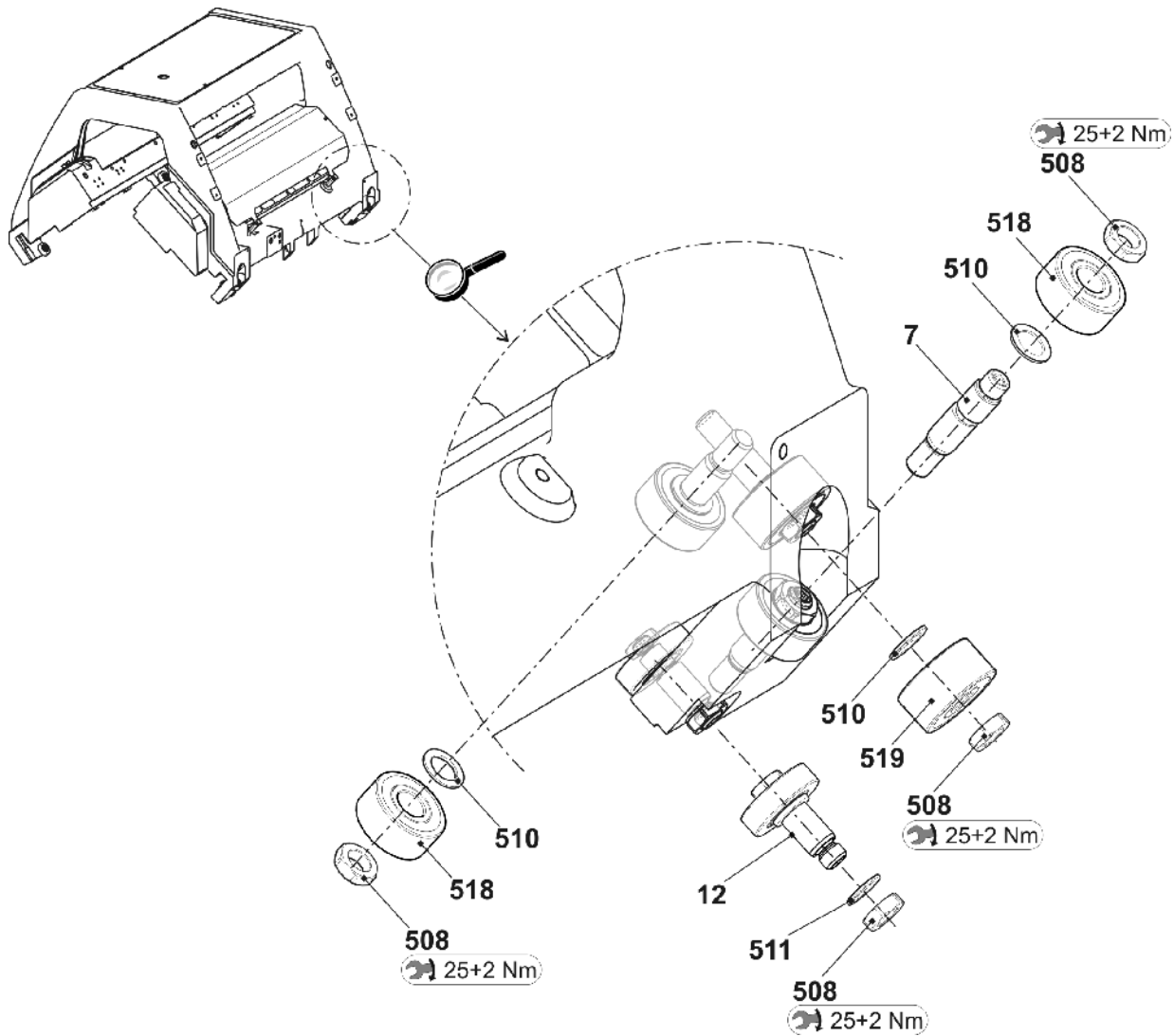
5.15 Carriage covers

Pos	Designation	ID	Pos	Designation	ID
1	Carriage cover at the top 3 cam boxes complete	257 100			
1a	Carriage cover at the top 3 cam boxes	256 510	12	Locating bolt	267 050
2	Carriage cover at the rear complete with 3 cam boxes	267 047	500	Washer 6.1x9x0,5	023 554
2a	Carriage cover at the rear 3 cam boxes	267 049	501	Hexagon nut M6	257 088
3	Carriage cover at the front 3 cam boxes complete	267 046	503	Serrated lock washer 6,4	022 385
3a	Carriage cover front 3 cam boxes	267 048	505	O-ring 3x2	242 420
11	Locating bolt	242 382	506	Compression spring 0,5x7,1x23	023 100



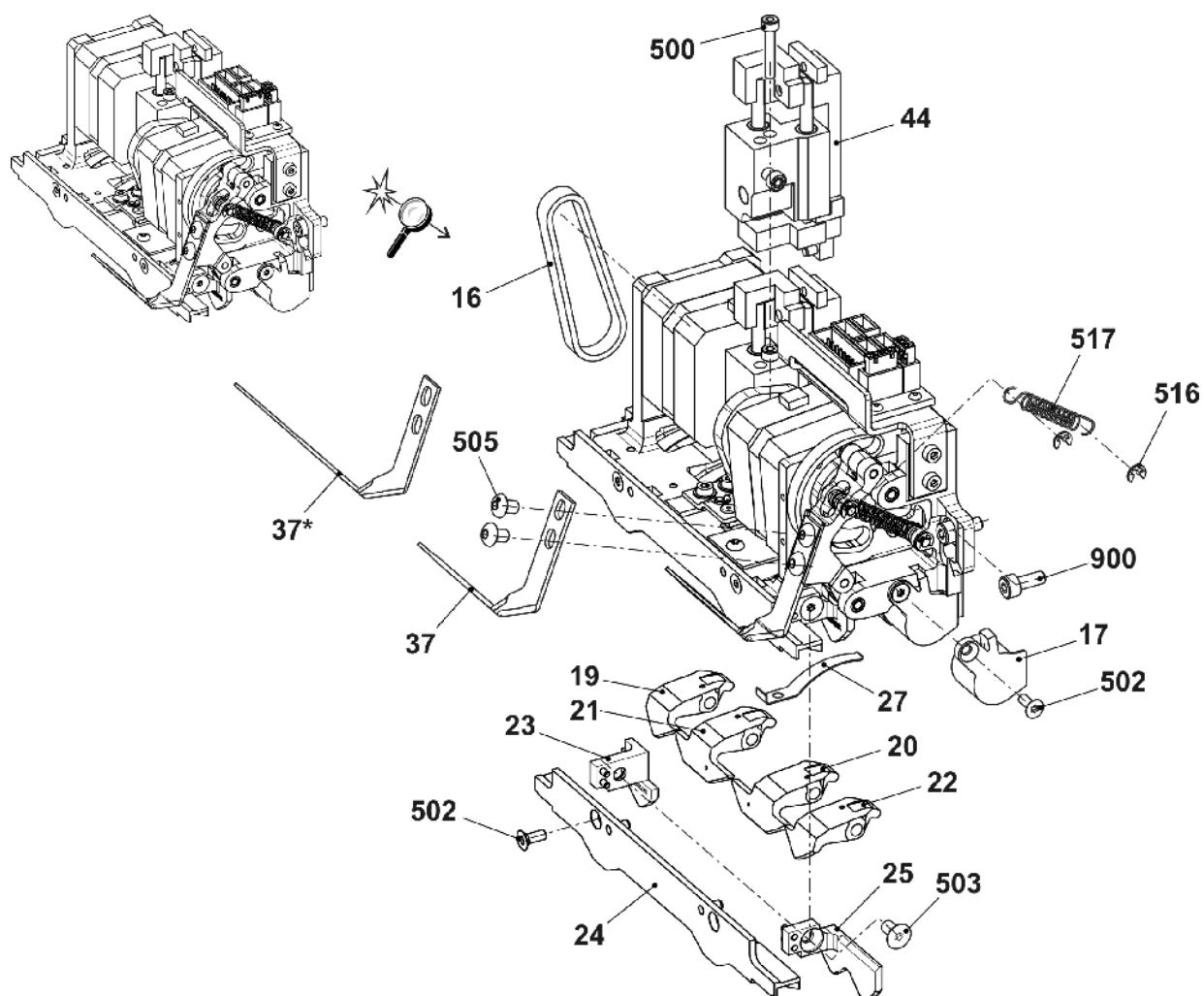
5.16 Carriage guide

Pos	Designation	ID	Pos	Designation	ID
7	Bearing bolt eccentric 0,5	240 624	511	Shim ring 10x16x1	023 260
12	Bolt pre-assembled	244 283	518	Grooved ball bearing 62201-2RS	241 408
508	NutM10	023 316	519	Grooved ball bearing 62300-2RS1	242 070
510	Shim ring 12x18x1	023 315			



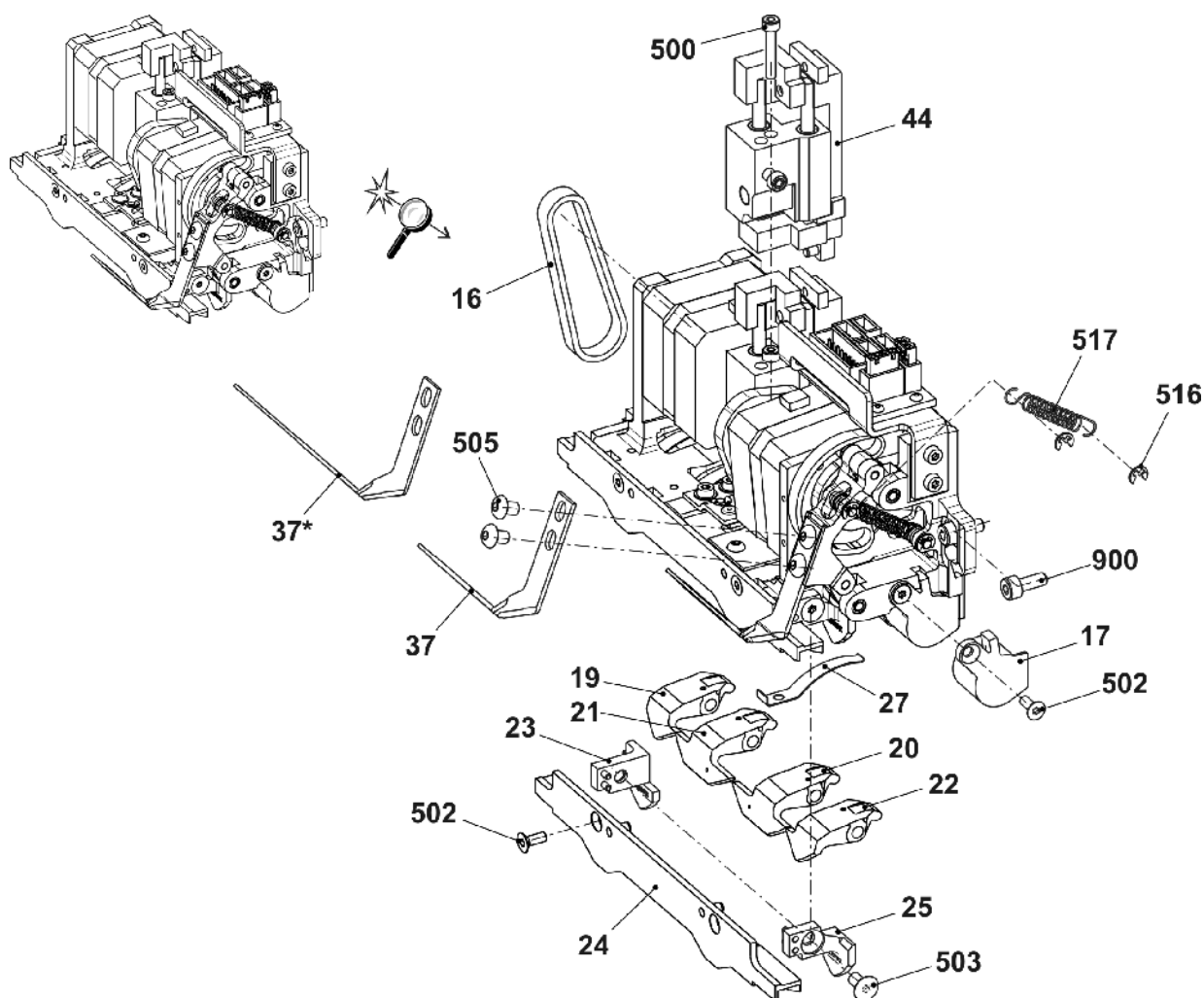
5.17 Control unit jack/presser foot on the left E3,5.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES on the left E3,5.2	255 109			
16	Toothed belt	235 513	37	Presser Foot E3,5.2-6.2	244 362
17	Cover	273 329	37*	Presser Foot E3,5.2-6.2	237 328
19	Tilting lever knitting on the right E3,5.2	242 353	44	Guide complete	242 265
20	Tilting lever transfer on the right E3,5.2	242 368	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E3,5.2	242 369	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E3,5.2	242 354	503	Pan-head screw M4x8	241 913
23	Slider on the right fixed inside E3,5.2	242 355	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E3,5.2	245 172	516	Circlip 2,3	021 018
25	Slider on the left outside E3,5.2	255 044	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



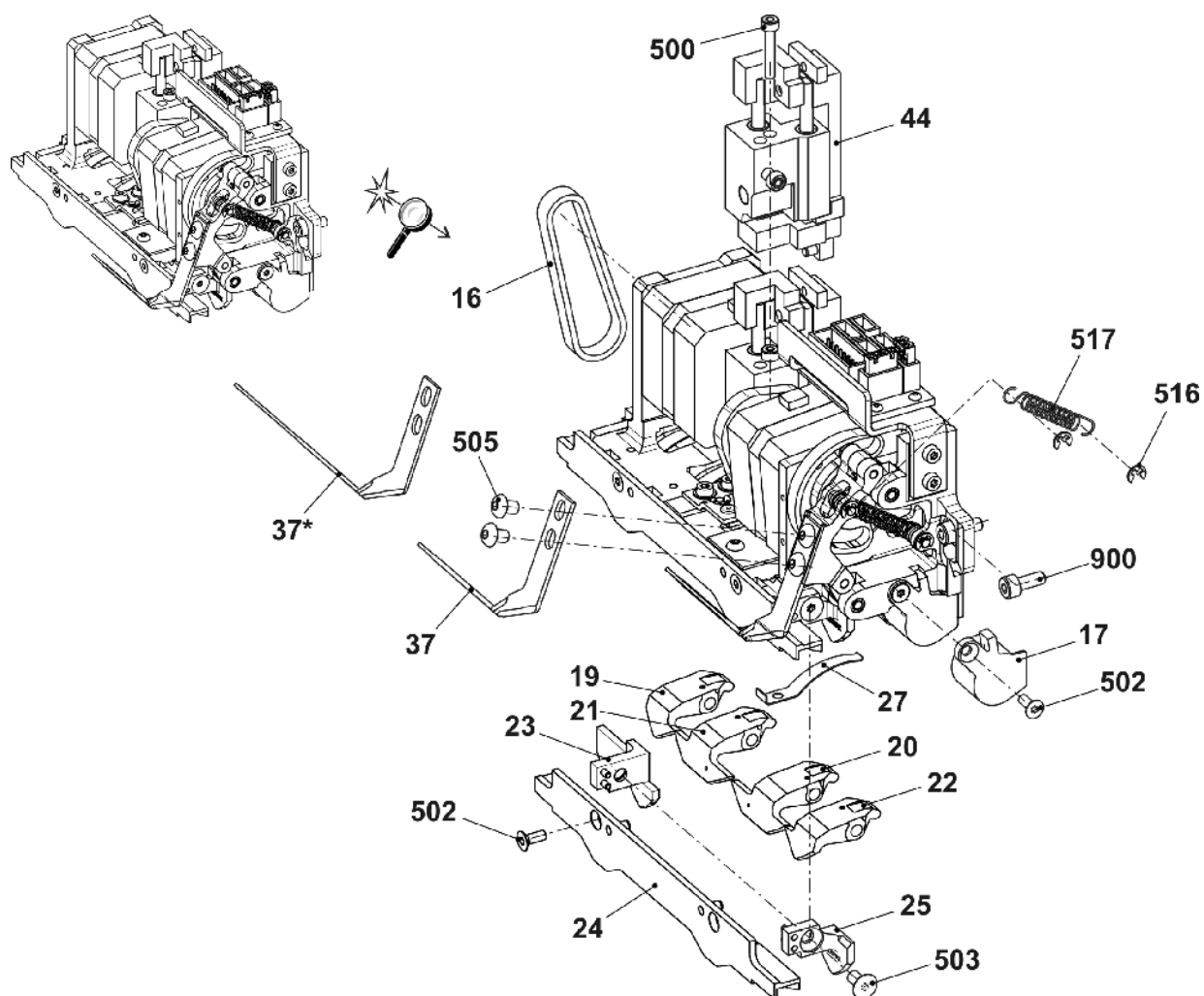
5.18 Control unit jack/presser foot middle E3,5.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES in the middle E3,5.2	255 123			
16	Toothed belt	235 513	37	Presser Foot E3,5.2-6.2	244 362
17	Cover	273 329	37*	Presser Foot E3,5.2-6.2	237 328
19	Tilting lever knitting on the right E3,5.2	242 353	44	Guide complete	242 265
20	Tilting lever transfer on the right E3,5.2	242 368	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E3,5.2	242 369	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E3,5.2	242 354	503	Pan-head screw M4x8	241 913
23	Slider on the right fixed inside E3,5.2	242 355	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E3,5.2	245 172	516	Circlip 2,3	021 018
25	Slider on the left fixed inside E3,5.2	242 357	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



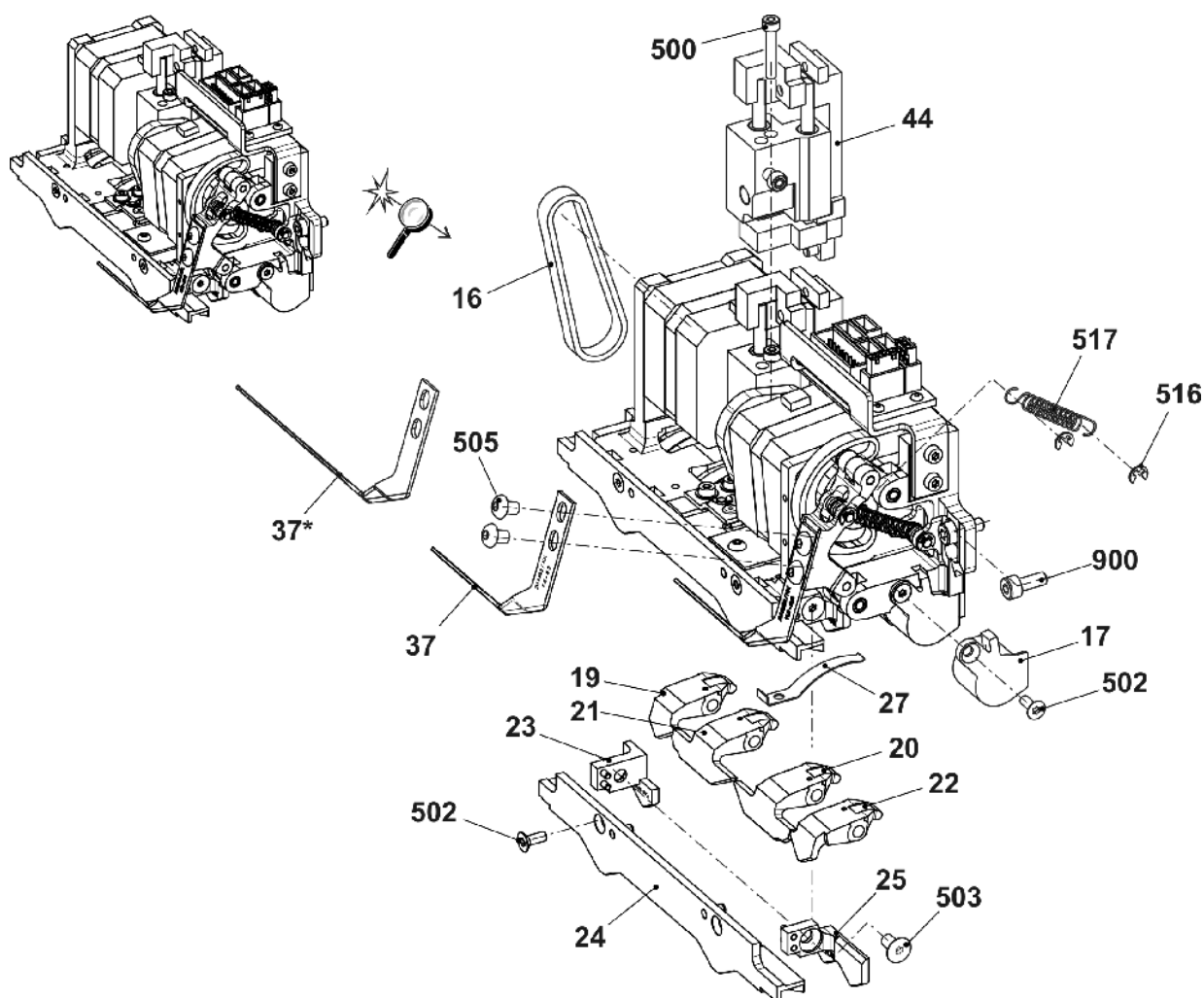
5.19 Control unit jack/presser foot on the right E3,5.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES on the right E3,5.2	255 110			
16	Toothed belt	235 513	37	Presser Foot E3,5.2-6.2	244 362
17	Cover	273 329	37*	Presser Foot E3,5.2-6.2	237 328
19	Tilting lever knitting on the right E3,5.2	242 353	44	Guide complete	242 265
20	Tilting lever transfer on the right E3,5.2	242 368	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E3,5.2	242 369	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E3,5.2	242 354	503	Pan-head screw M4x8	241 913
23	Slider on the right outside E3,5.2	255 045	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E3,5.2	245 172	516	Circlip 2,3	021 018
25	Slider on the left fixed inside	242 357	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



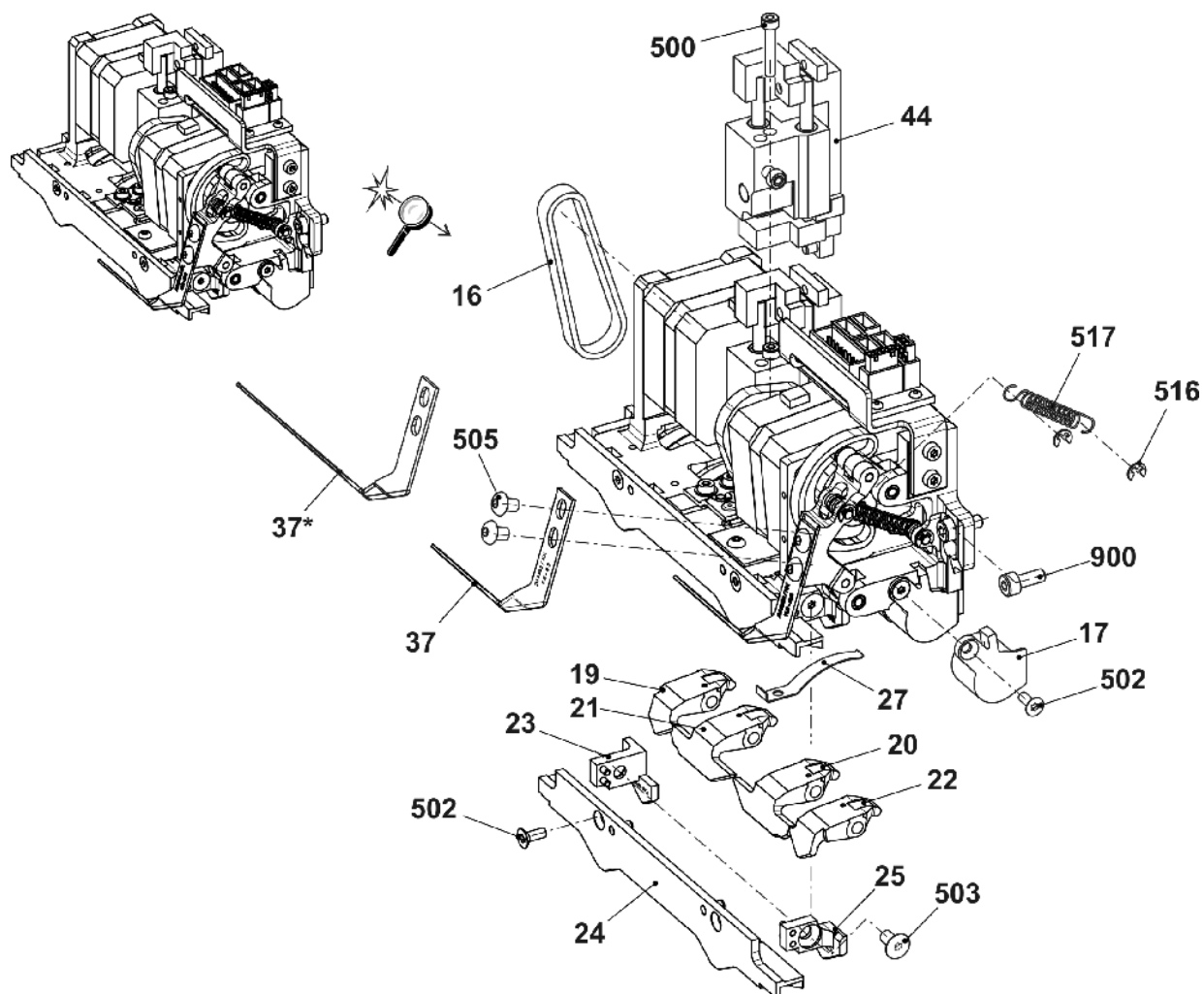
5.20 Control unit jack/presser foot on the left E7.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES on the left E7.2	253 972			
16	Toothed belt	235 513	37	Presser Foot E7.2-9.2	244 363
17	Cover	273 329	37*	Presser Foot E7.2-9.2	240 720
19	Tilting lever knitting on the right E7.2	253 970	44	Guide complete	242 265
20	Tilting lever transfer on the right E7.2	253 297	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E7.2	253 296	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E7.2	253 971	503	Pan-head screw M4x8	241 913
23	Slider on the right fixed inside E7.2	251 801	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E7.2	253 293	516	Circlip 2,3	021 018
25	Slider on the left outside E7.2	253 264	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



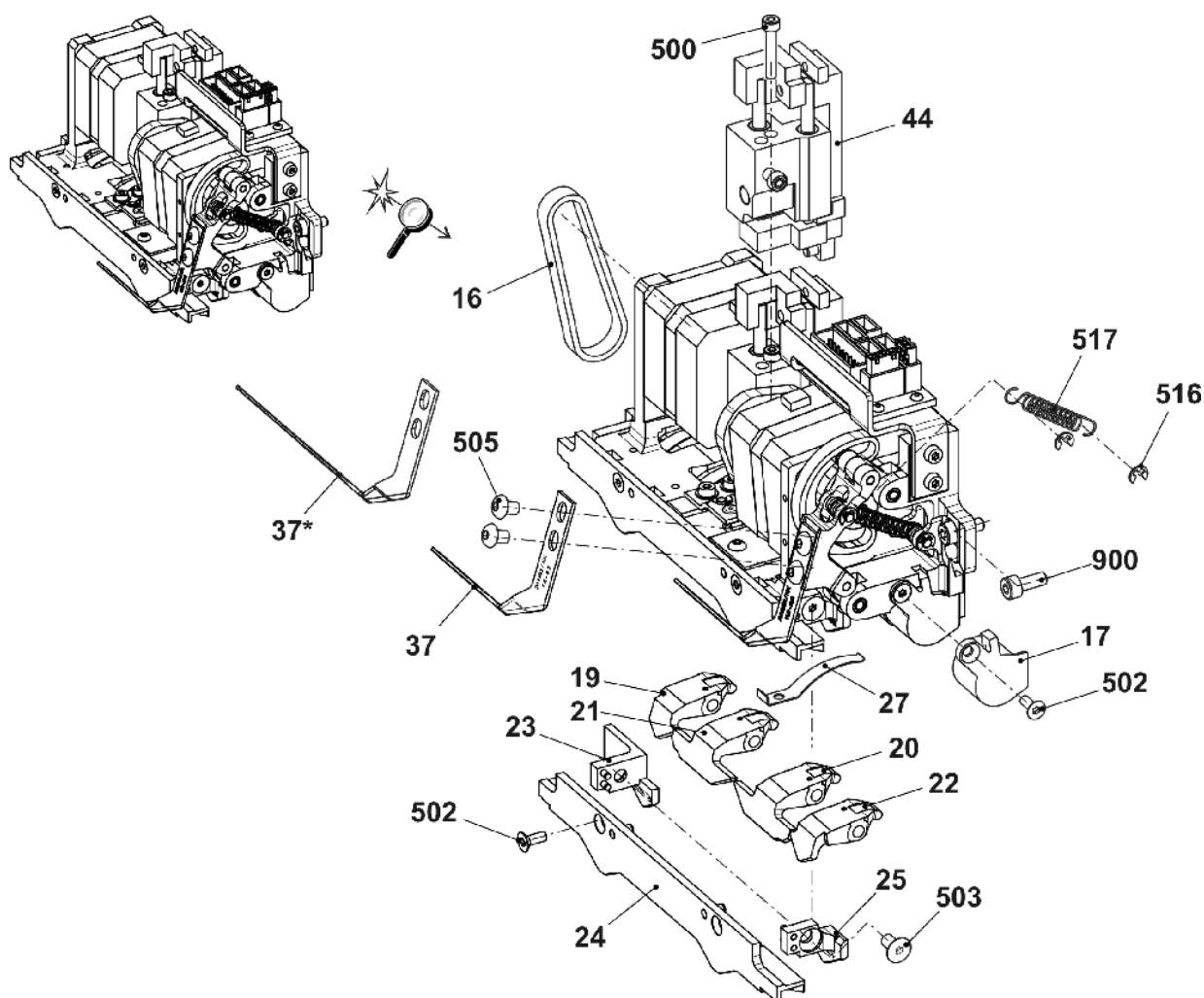
5.21 Control unit jack/presser foot middle E9.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES in the middle E7.2	253 973			
16	Toothed belt	235 513	37	Presser Foot E7.2-9.2	244 363
17	Cover	273 329	37*	Presser Foot E7.2-9.2	240 720
19	Tilting lever knitting on the right E7.2	253 970	44	Guide complete	242 265
20	Tilting lever transfer on the right E7.2	253 297	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E7.2	253 296	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E7.2	253 971	503	Pan-head screw M4x8	241 913
23	Slider on the right fixed inside E7.2	251 801	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E7.2	253 293	516	Circlip 2,3	021 018
25	Slider on the left fixed inside E7.2	251 838	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



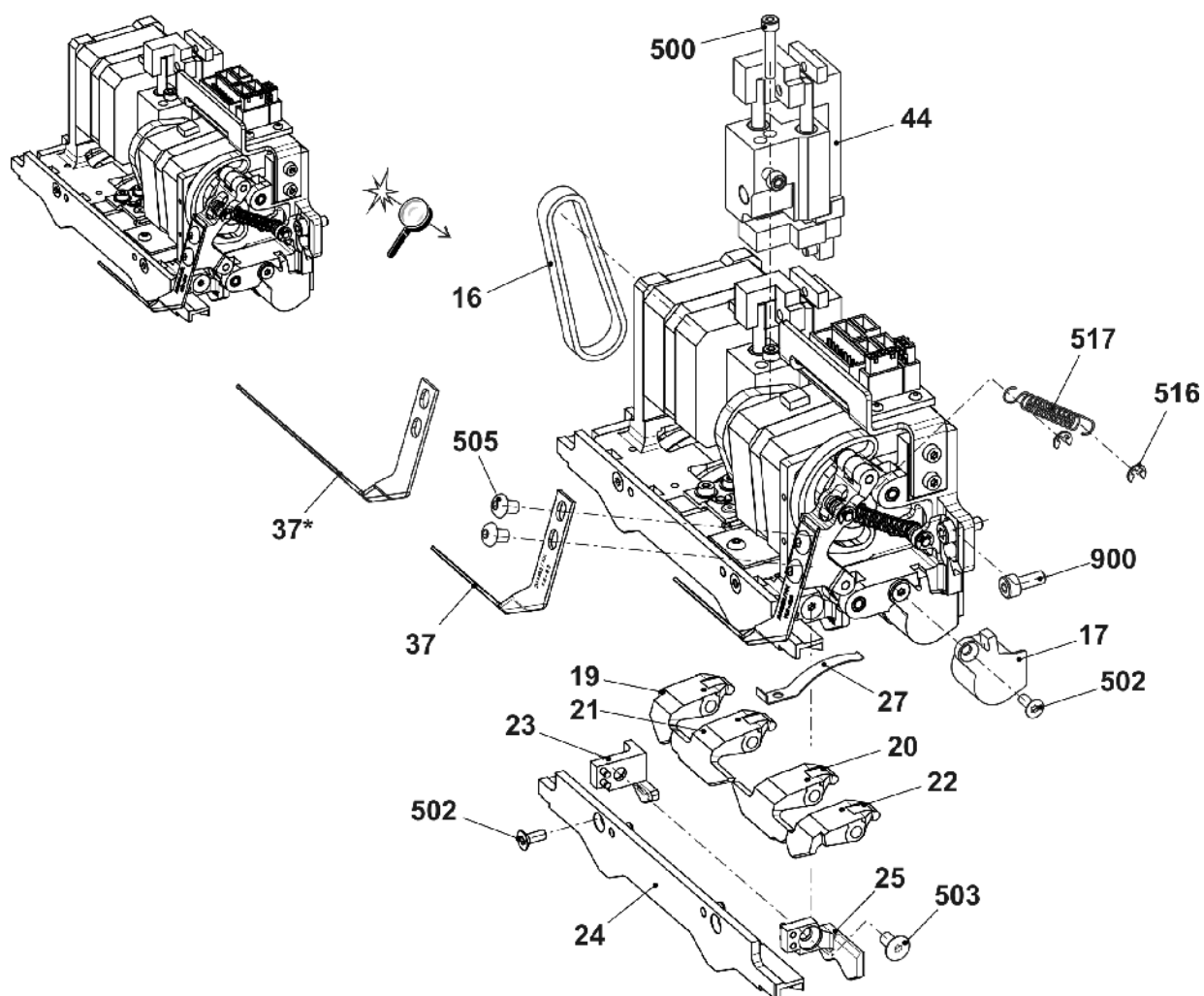
5.22 Control unit jack/presser foot on the right E7.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES on the right E7.2	253 974			
16	Toothed belt	235 513	37	Presser Foot E7.2-9.2	244 363
17	Cover	273 329	37*	Presser Foot E7.2-9.2	240 720
19	Tilting lever knitting on the right E7.2	253 970	44	Guide complete	242 265
20	Tilting lever transfer on the right E7.2	253 297	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E7.2	253 296	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E7.2	253 971	503	Pan-head screw M4x8	241 913
23	Slider on the right outside E7.2	253 263	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E7.2	253 293	516	Circlip 2,3	021 018
25	Slider on the left fixed inside E7.2	251 838	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



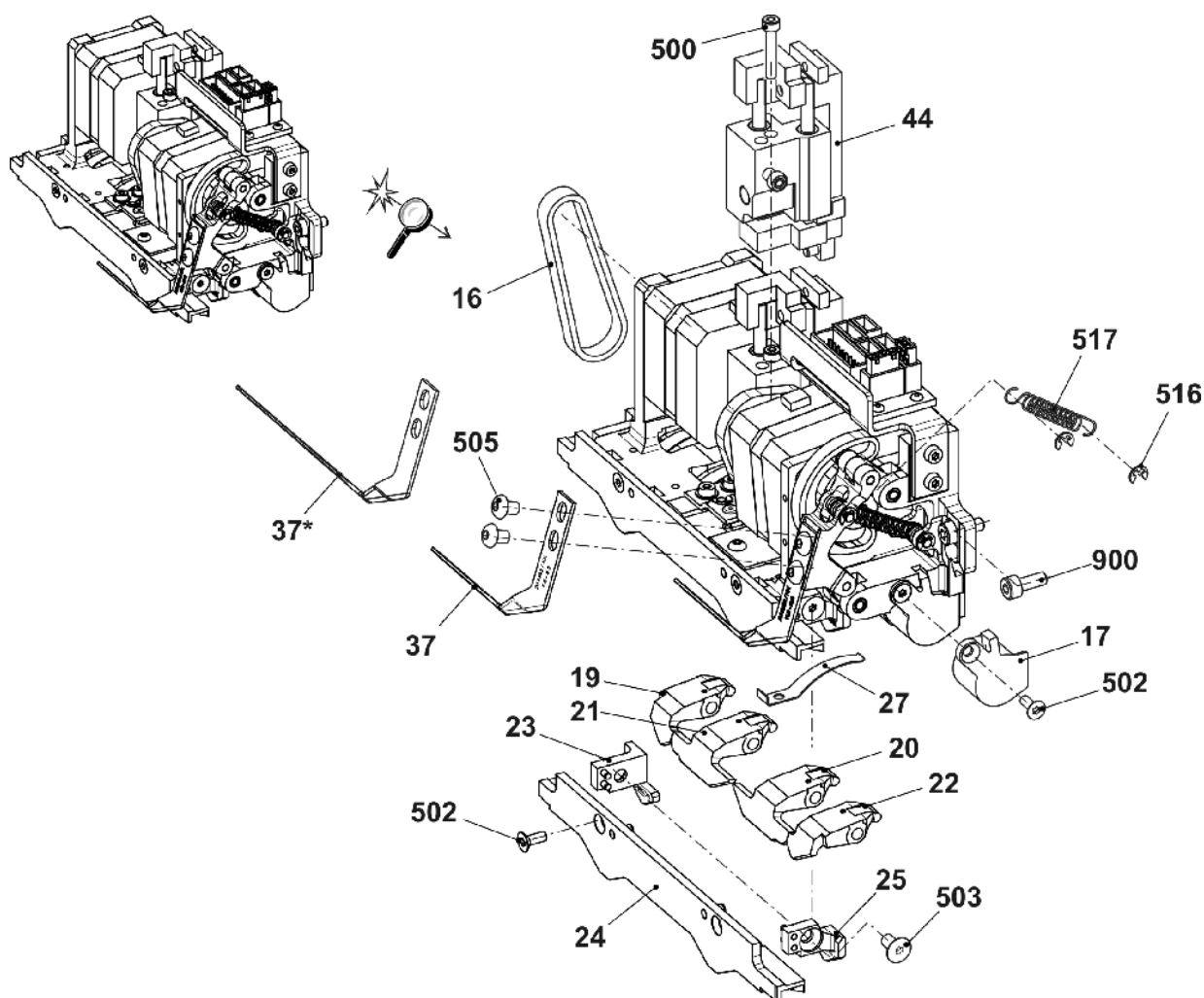
5.23 Control unit jack/presser foot on the left E9.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES on the left E9.2	254 242			
16	Toothed belt	235 513	37	Presser Foot E7.2-9.2	244 363
17	Cover	273 329	37*	Presser Foot E7.2-9.2	240 720
19	Tilting lever knitting on the right E9.2	253 283	44	Guide complete	242 265
20	Tilting lever transfer on the right E9.2	253 292	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E9.2	253 290	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E9.2	253 282	503	Pan-head screw M4x8	241 913
23	Slider on the right fixed inside E9.2	251 027	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E9.2	253 284	516	Circlip 2,3	021 018
25	Slider on the left outside E9.2	252 752	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



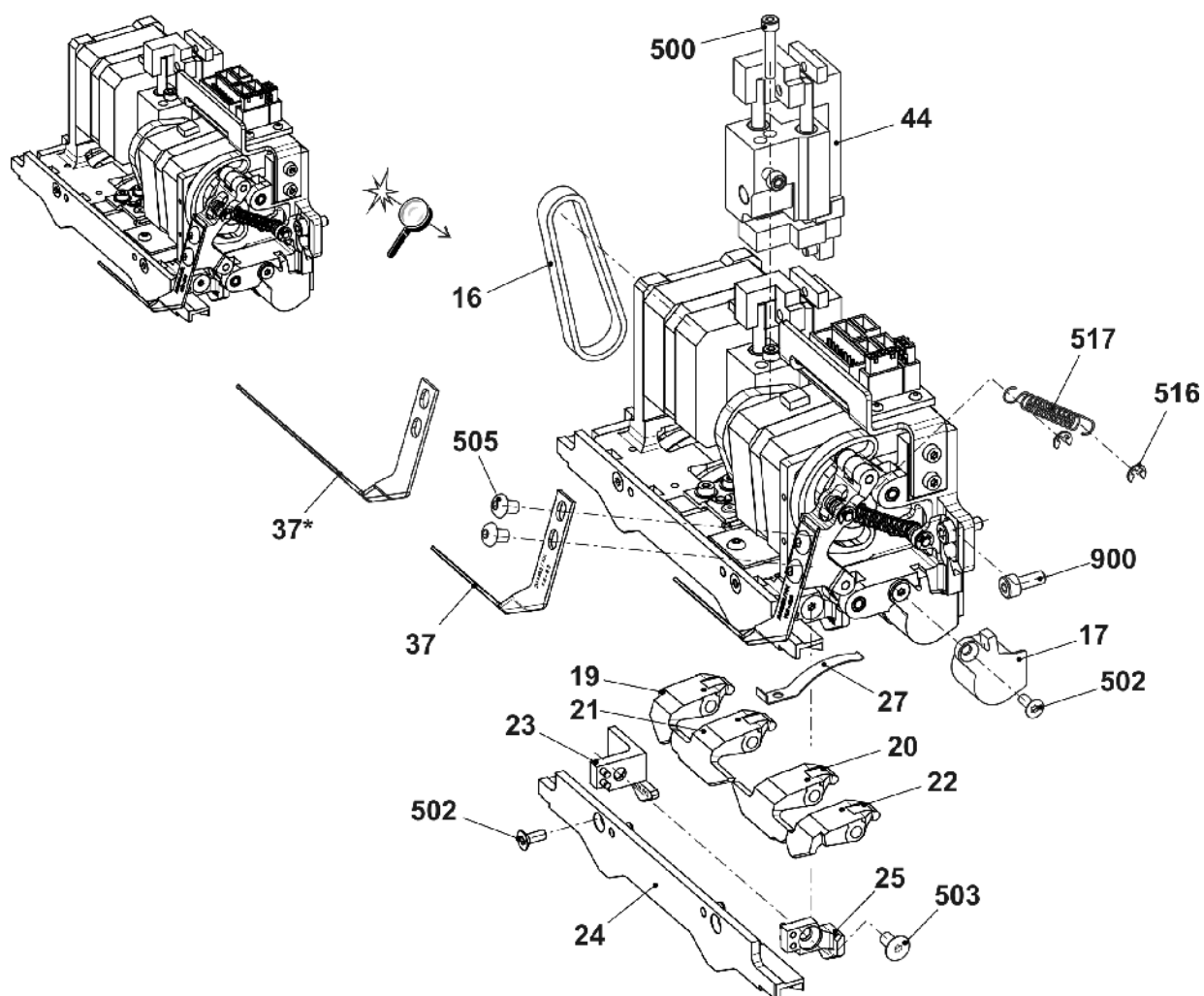
5.24 Control unit jack/presser foot in the middle E9.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES in the middle E9.2	254 243			
16	Toothed belt	235 513	37	Presser Foot E7.2-9.2	244 363
17	Cover	273 329	37*	Presser Foot E7.2-9.2	240 720
19	Tilting lever knitting on the right E9.2	253 283	44	Guide complete	242 265
20	Tilting lever transfer on the right E9.2	253 292	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E9.2	253 290	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E9.2	253 282	503	Pan-head screw M4x8	241 913
23	Slider on the right fixed inside E9.2	251 027	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E9.2	253 284	516	Circlip 2,3	021 018
25	Slider on the left fixed inside E9.2	251 028	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



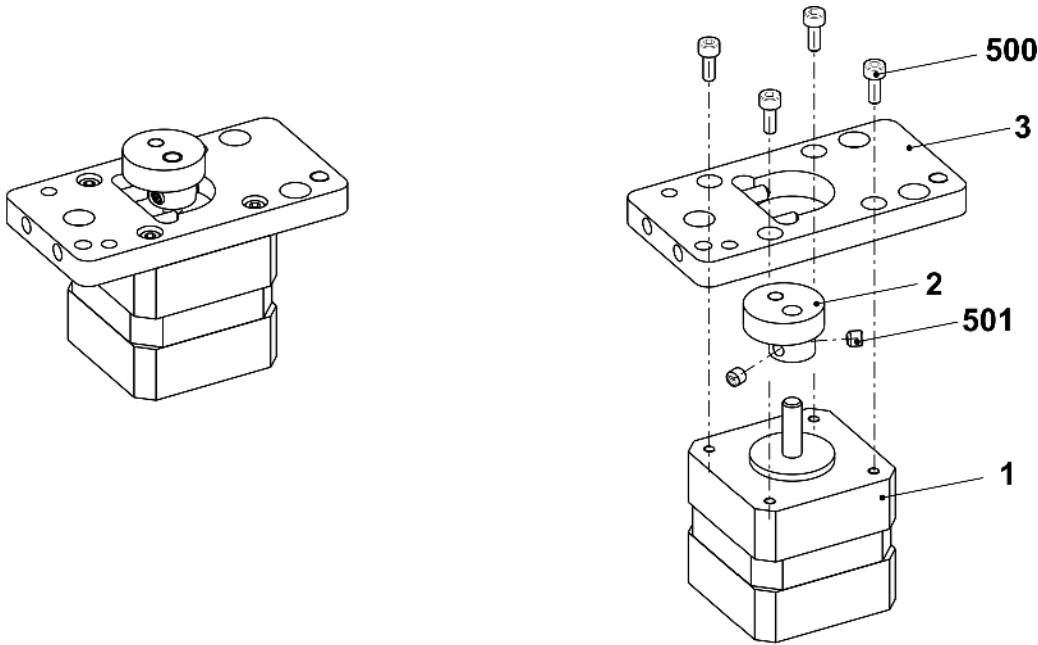
5.25 Control unit jack/presser foot on the right E9.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit PL/ES on the right E9.2	254 244			
16	Toothed belt	235 513	37	Presser Foot E7.2-9.2	244 363
17	Cover	273 329	37*	Presser Foot E7.2-9.2	240 720
19	Tilting lever knitting on the right E9.2	253 283	44	Guide complete	242 265
20	Tilting lever transfer on the right E9.2	253 292	500	Cap screw M3x18	236 485
21	Tilting lever transfer on the left E9.2	253 290	502	Pan-head screw M3x8	241 912
22	Tilting lever knitting on the left E9.2	253 282	503	Pan-head screw M4x8	241 913
23	Slider on the right outside E9.2	252 751	505	Pan head screw M4x6	023 427
24	Slider in the middle fixed E9.2	253 284	516	Circlip 2,3	021 018
25	Slider on the left fixed inside E9.2	251 028	517	Tension spring 5,5x0,5x19,48	235 608
27	Leaf spring	235 502	900	Cap screw M4x10	023 136



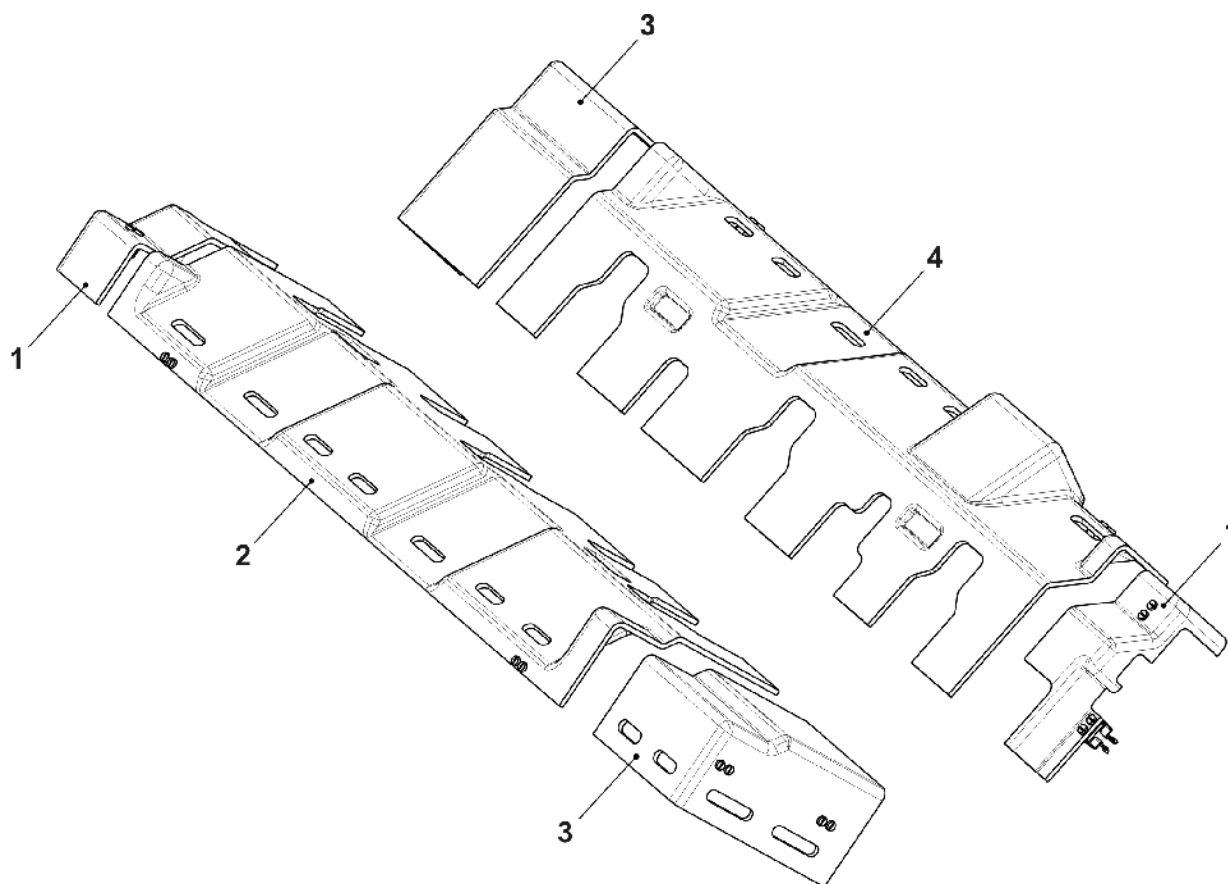
5.26 Control unit brush

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit brush	236 102	3	Motor plate	235 646
1	Step motor brushes	236 896	500	Cap screw M3x8	022 582
2	Eccentric	235 395	501	Setscrew M4x4	022 875



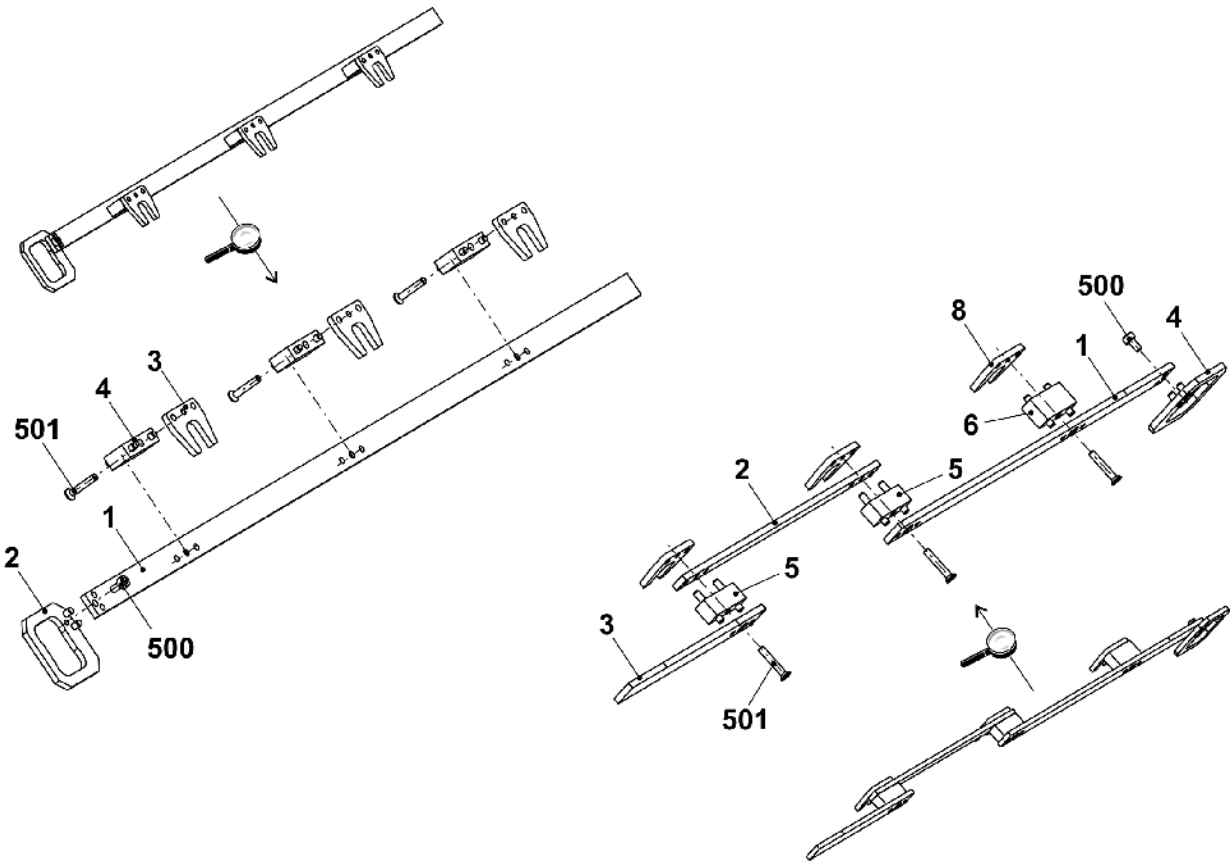
5.27 Covers

Pos	Designation	Id	Pos	Designation	Id
1	Cover on the right	237 827	3	Cover on the left	237 825
2	Cover in the middle at the front	237 826	4	Cover in the middle at the rear	243 054



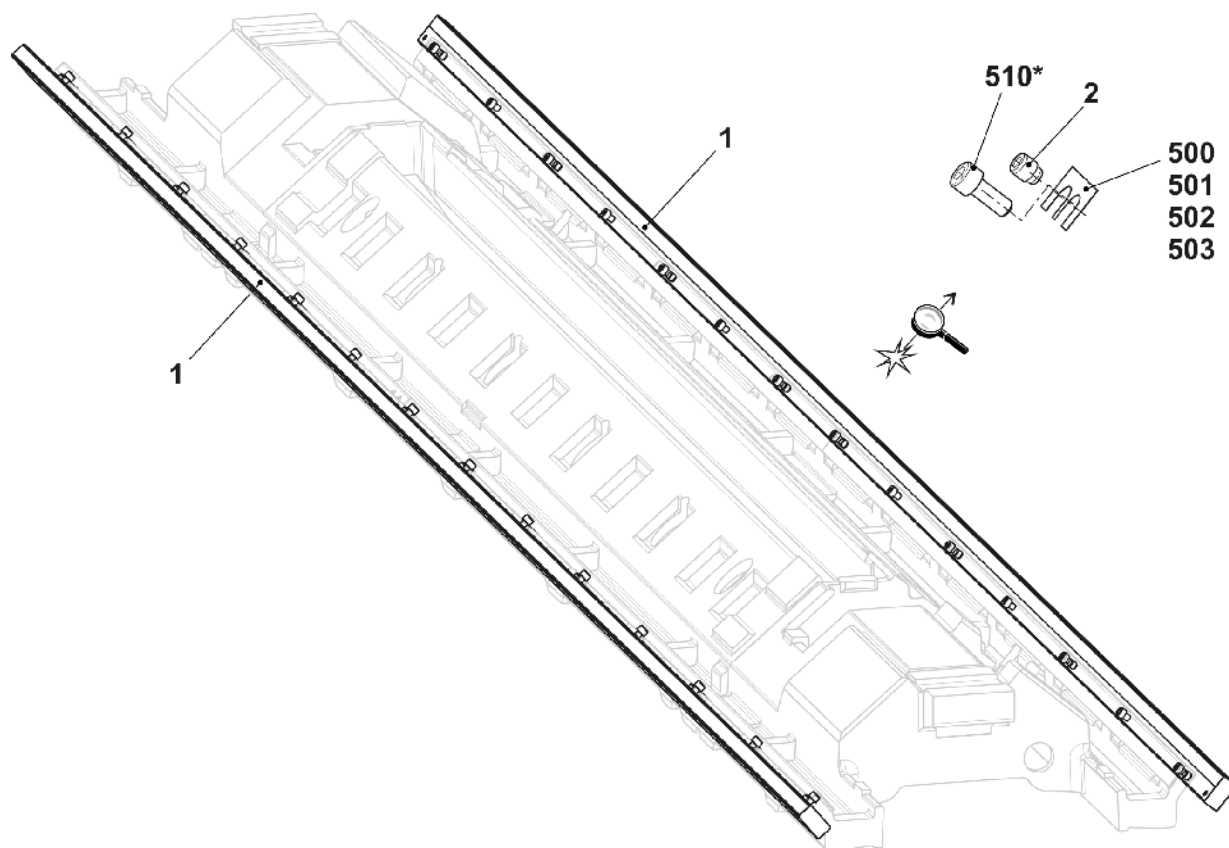
5.28 Sliding rods

Pos	Designation	Id	Pos	Designation	Id
Σ	Sliding rod complete (at the front)	236 101	Σ	Sliding rod complete (at the rear)	242 046
1	Driving rod	237 830	1	Sliding rod on the left	242 036
2	Control plate	235 396	2	Sliding rod in the middle	242 037
3	Brush driver	237 432	3	Sliding rod on the right	242 038
4	Intermediate piece	237 433	4	Control plate	235 396
500	Cap screw M3x6	022 589	5	Intermediate piece	242 809
501	Pan-head screw M3x18	242 728	6	Intermediate piece	237 433
			8	Brush driver	237 432
			500	Cap screw M3x6	022 589
			501	Pan-head screw M3x18	242 728

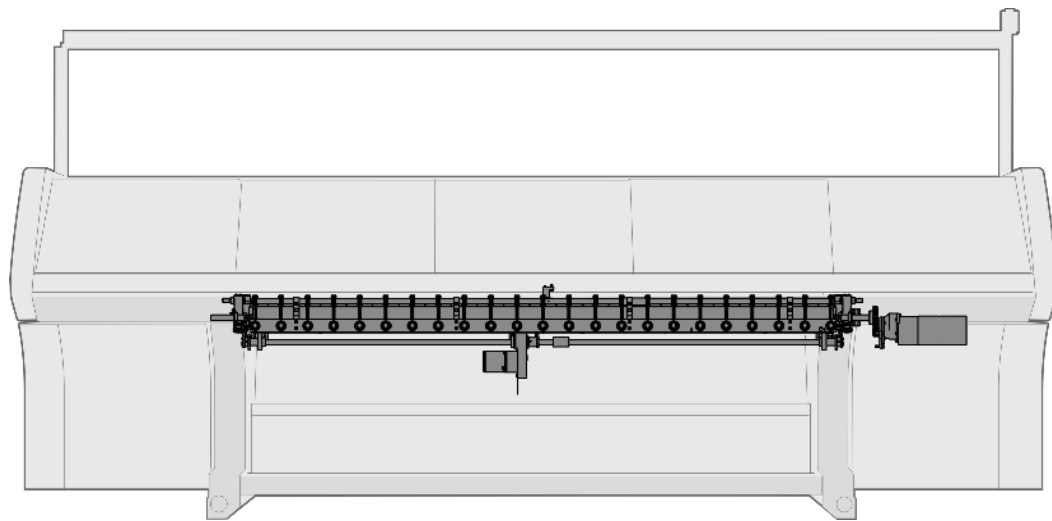


5.29 Spare parts package carriage guide bar

Pos	Designation	ID	Pos	Designation	ID
Σ	Spare parts package carriage guide bar 84"	252 993	501	Shim0,05x22x42	243 291
1	Carriage guide rail	242 486	502	Shim0,10x22x42	243 292
2	Adjusting eccentric	241 219	503	Shim0,20x22x42	243 293
500	Shim0,03x22x42	243 289	510*	Cap screw M8x20	020 141

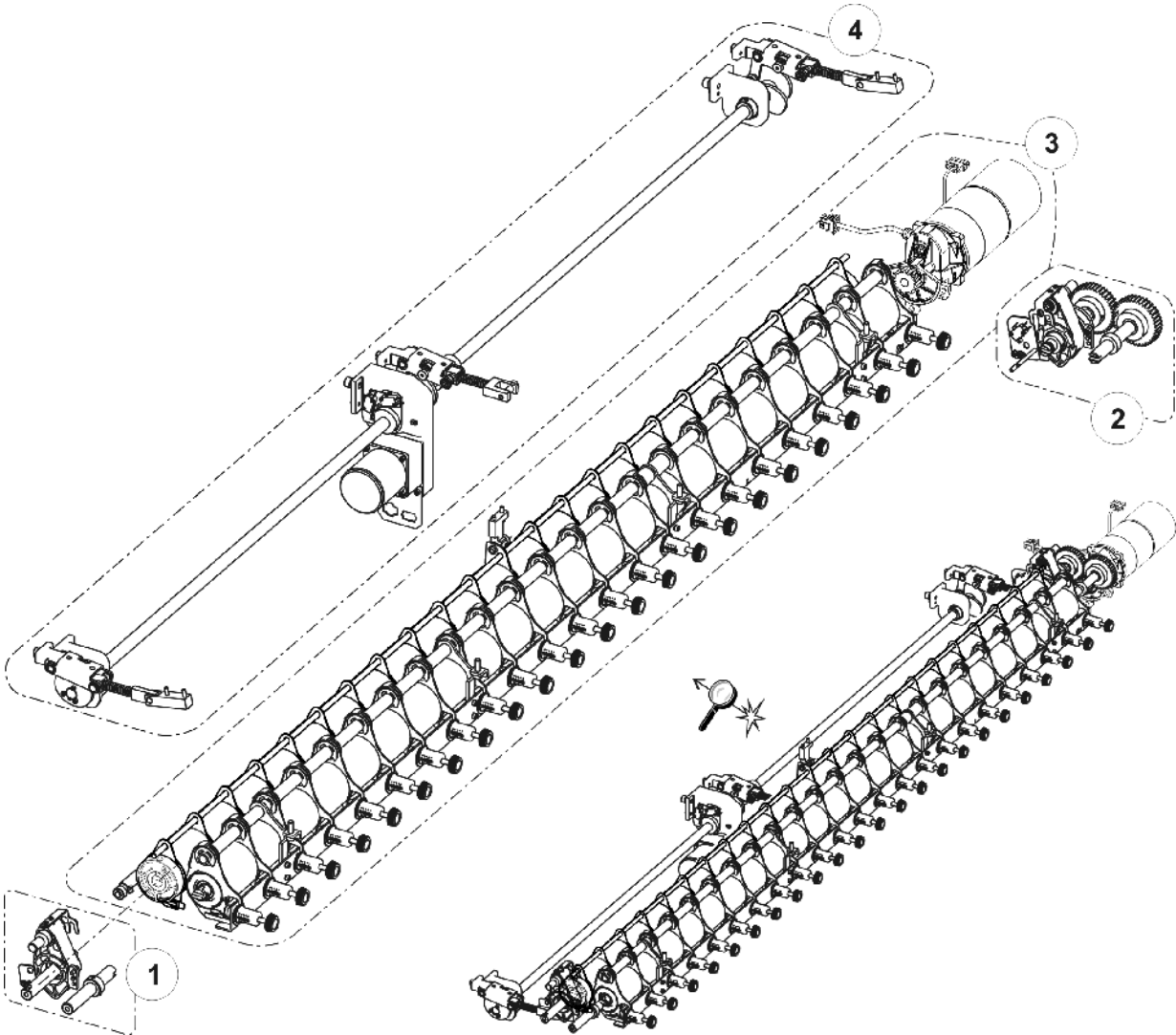


6 Main take-down



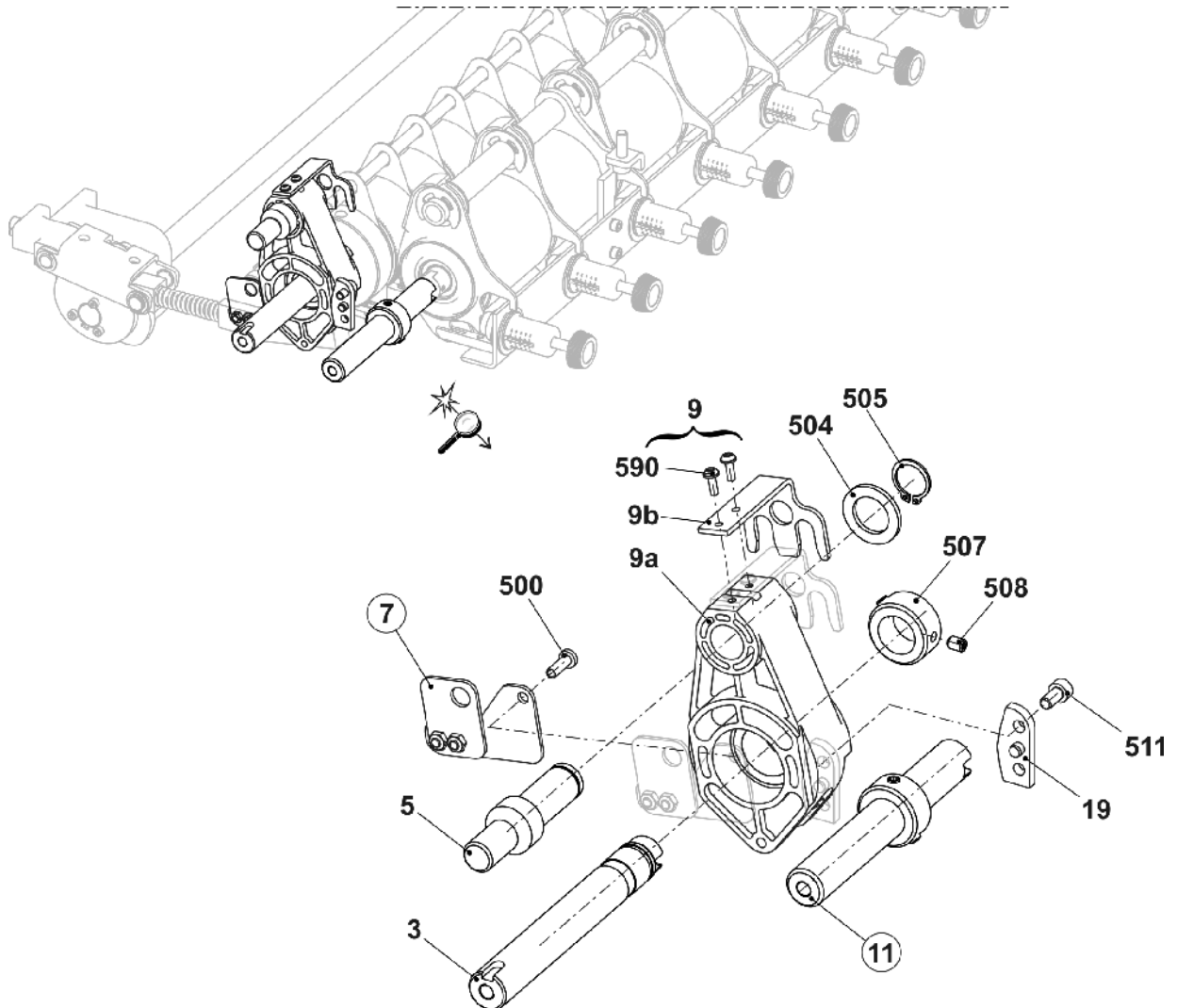
6.1 Main take-down

Pos	Designation	ID	Pos	Designation	ID
Σ	Main take-down		3	Main take-down in the middle E7.2 E3,5.2	255 155
1	Main take-down on the left	255 148		Main take-down in the middle E9.2	255 154
2	Main take-down on the right	255 145	4	Main take-down on / off complete 84"	254 762



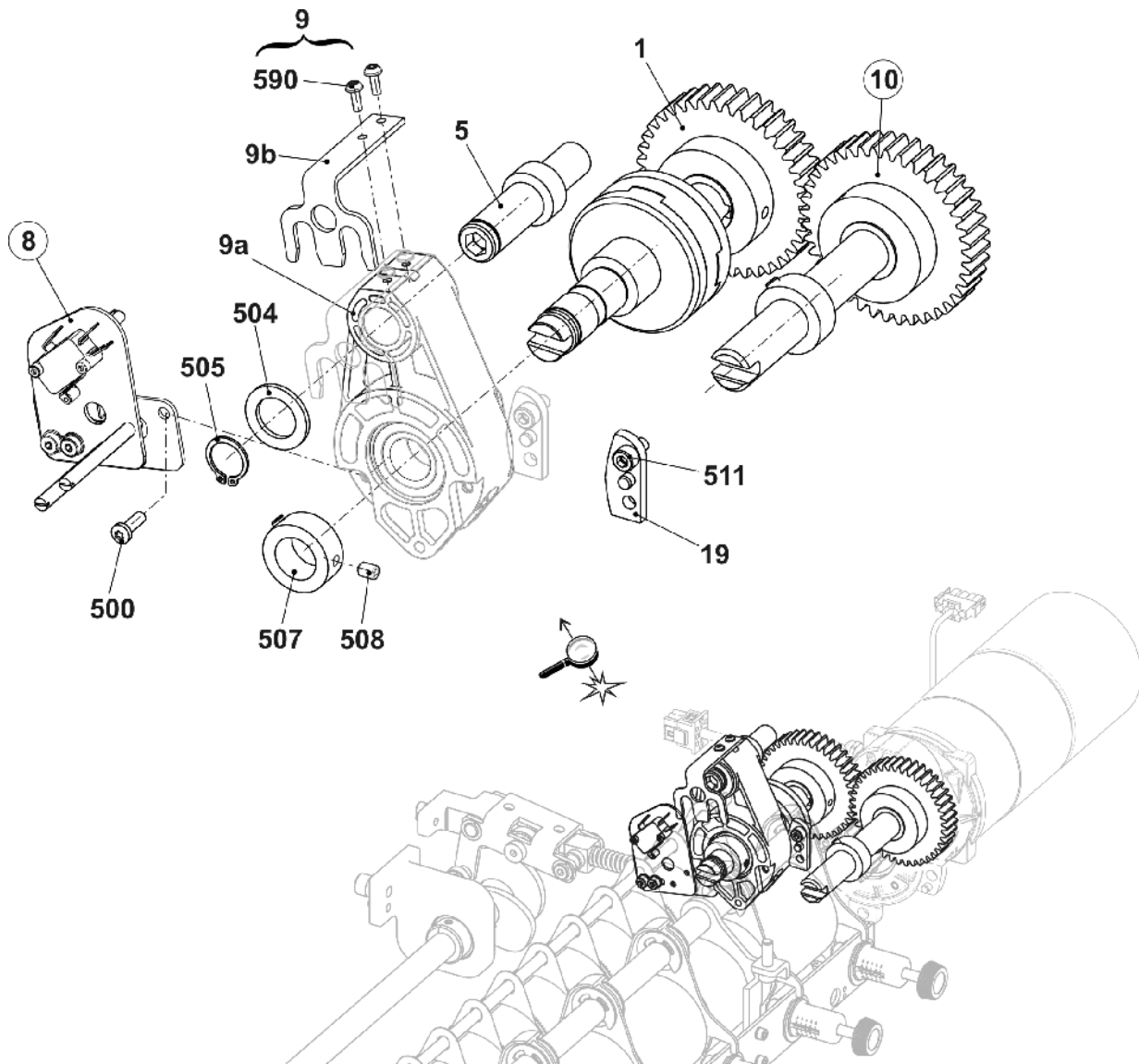
6.2 Main take-down on the left

Pos	Designation	ID	Pos	Designation	ID
Σ	Main take-down on the left	255 148	11	Full floating axle on the left	254 826
3	Shaft on the left at the rear	255 305	19	Stop point	252 503
5	Bolts	208 538	500	Screw 50x15	251 728
7	Mounting plate on the left complete	231 725	504	Washer 18	023 295
9	Swivel-mounted bearing	253 247	505	Retaining ring 18x1,2	020 955
9a	Swivel-mounted bearing	253 200	507	Set collar	020 938
9b	Sheet metal support	253 212	508	Setscrew	022 684
590	Screw 35x10	251 729	511	Cap screw M6x12	020 134



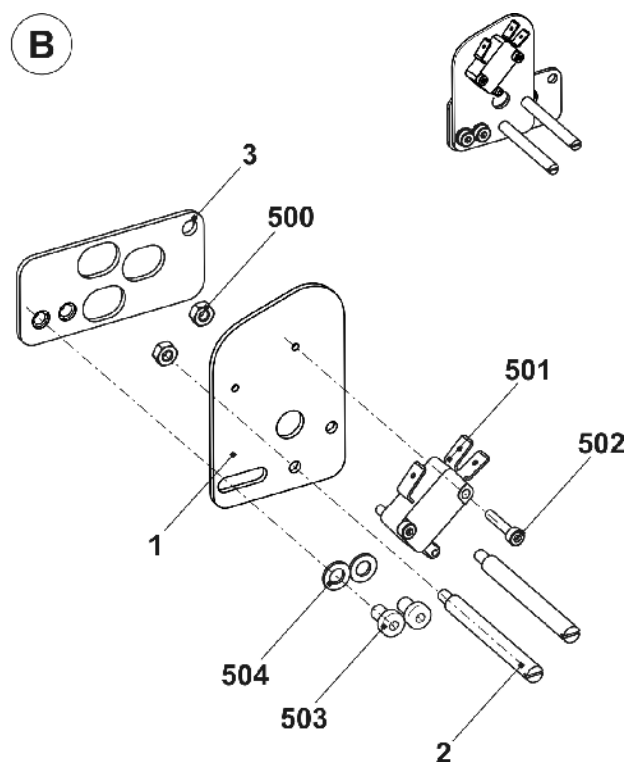
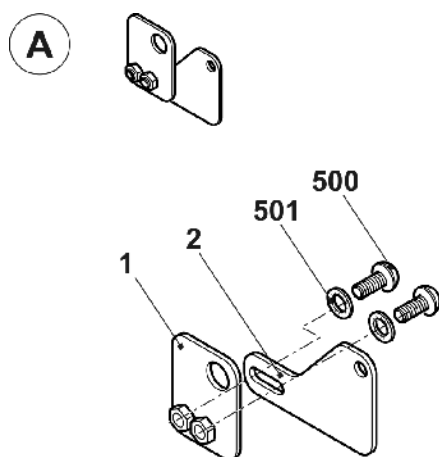
6.3 Main take-down on the right

Pos	Designation	ID	Pos	Designation	ID
Σ	Main take-down on the right	255 145	10	Full floating axle on the right	254 824
1	Clutch set	253 260	19	Stop point	252 503
5	Bolts	208 538	500	Screw 50x15	251 728
8	Mounting plate on the right complete	260 090	504	Washer 18	023 295
9	Swivel-mounted bearing	253 247	505	Retaining ring 18x1,2	020 955
9a	Swivel-mounted bearing	253 200	507	Set collar A20	020 938
9b	Sheet metal support	253 212	508	Set screw M6x8	022 684
590	Screw 35x10	251 729	511	Cap screw M6x12	020 134



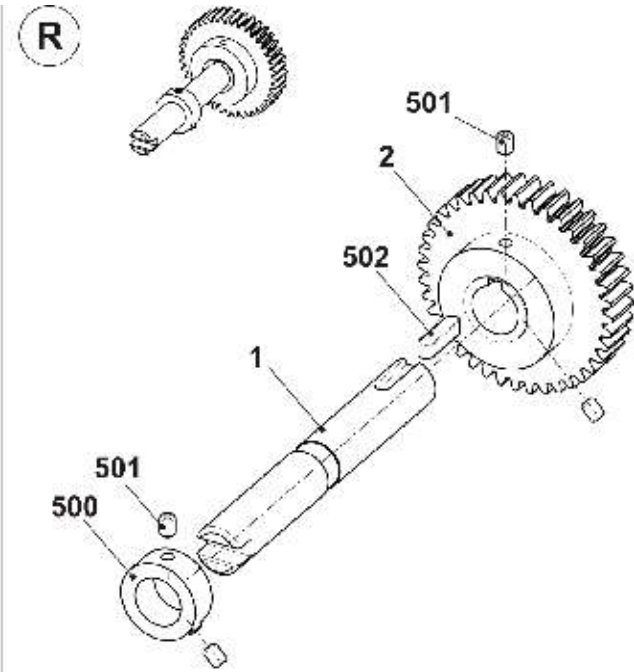
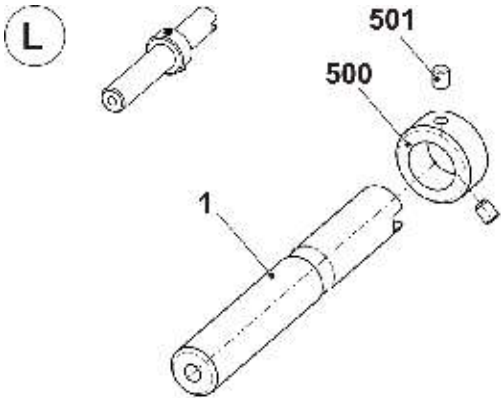
6.3.1 Mounting plate

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ A	Mounting plate on the left complete	231 725	2	Shoulder screw	240 067
1	Mounting plate on the left	231 541	3	Retaining plate on the right	240 066
2	Retaining plate on the left	231 539	500	Hexagon nut M4-6	022 536
500	Pan-head screw M5x10	023 247	501	Microswitch	026 259
501	Serrated lock washer J5,3	022 489	502	Cap screw M3x16	022 583
Σ B	Mounting plate on the right complete	260 090	503	Cap screw M5x8	244 278
1	Mounting plate on the right	260 067	504	Washer 5-200	020 871



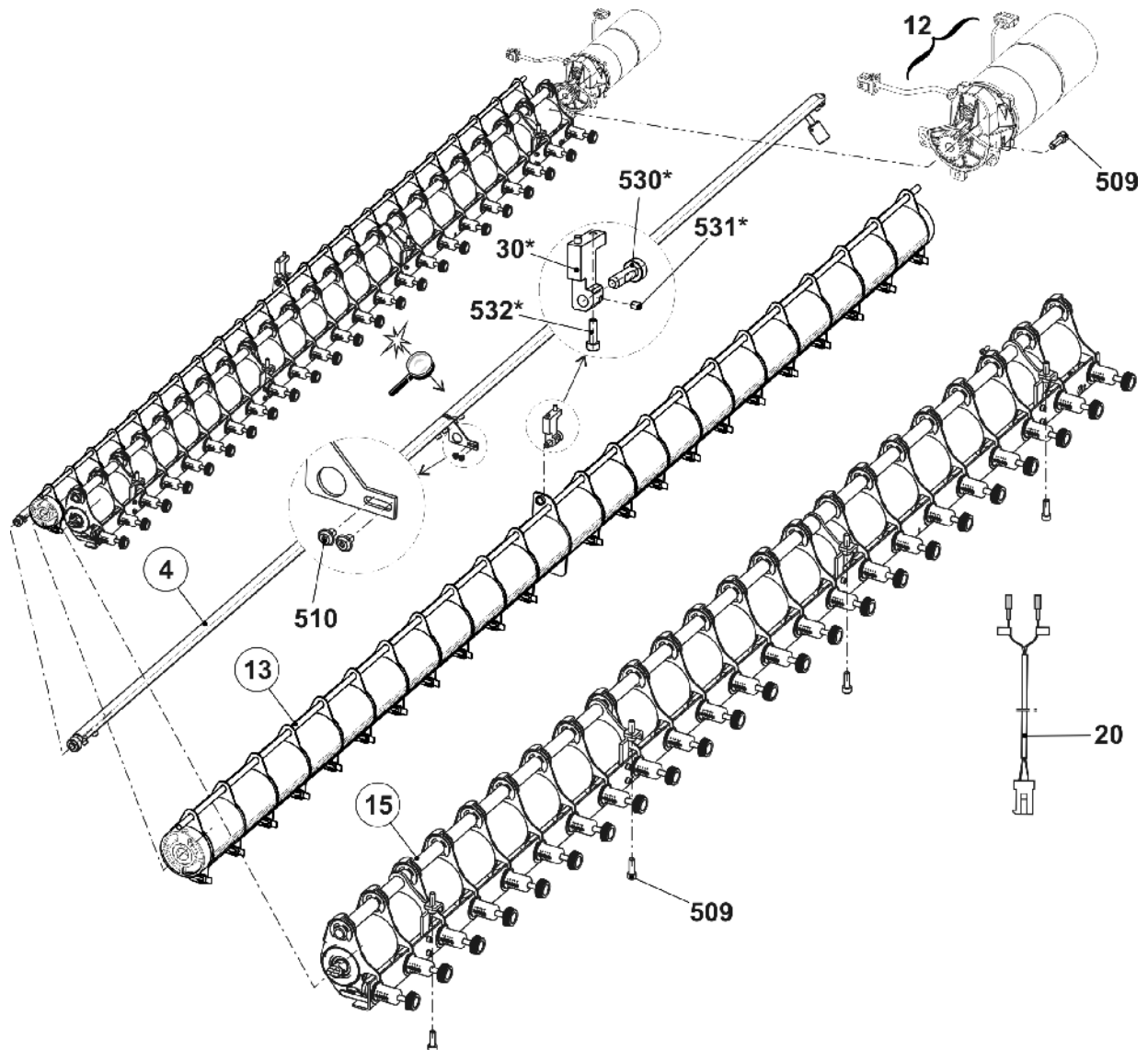
6.3.2 Full floating axle

Pos	Designation	ID	Pos	Designation	ID
Σ L	Full floating axle on the left	254 826	Σ R	Full floating axle on the right	254 824
1	Shaft on the left at the front	254 827	1	Shaft on the right in front	254 825
500	Set collar	020 938	2	Gear wheel Z=40, M=2	213 744
501	Setscrew M6x8	022 684	500	Set collar	020 938
			501	Setscrew M6x8	022 684
			502	Feather key A 6x6x25	023 017



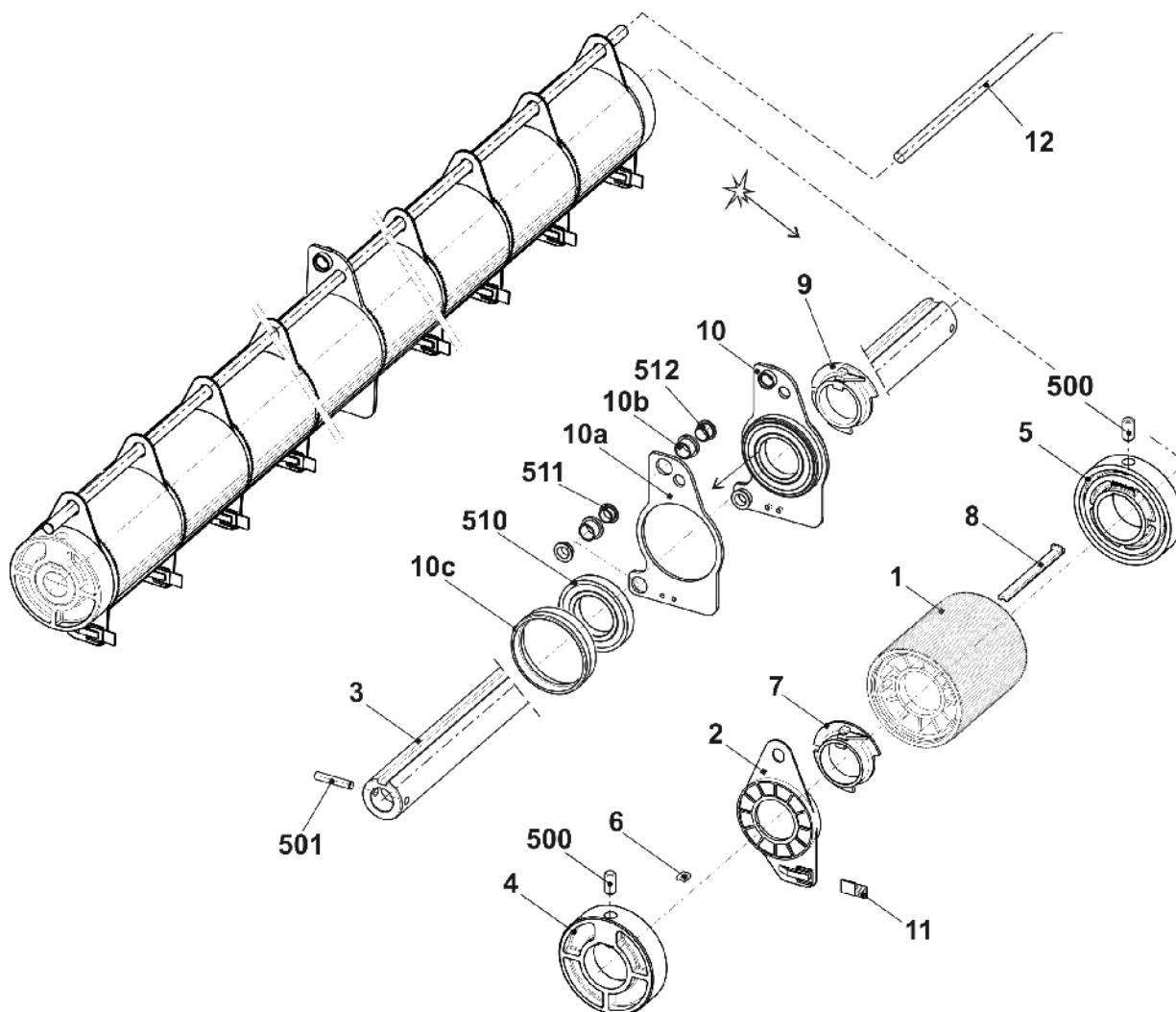
6.4 Main take-down in the middle

Pos	Designation	ID	Pos	Designation	ID
Σ	Main take-down in the middle E5-14 (E7.2 E3,5.2)	255 155			
	Main take-down in the middle E16-18 (E9.2)	255 154	509	Cap screw M8x25	020 142
4	Stripper angle at the rear complete	260 441	510	Pan-head screw M4x6	235 450
12	Motor take-down unit complete	253 803	30*	Bearing block	237 204
13	Take-down roller at the rear complete E3-14	254 745	530*	Bolts	237 211
15	Take-down roller at the front complete	254 770	531*	Setscrew M6x8	023 723
20	Connection cable winding plate	241 703	532*	Cap screw M8x20	020 136



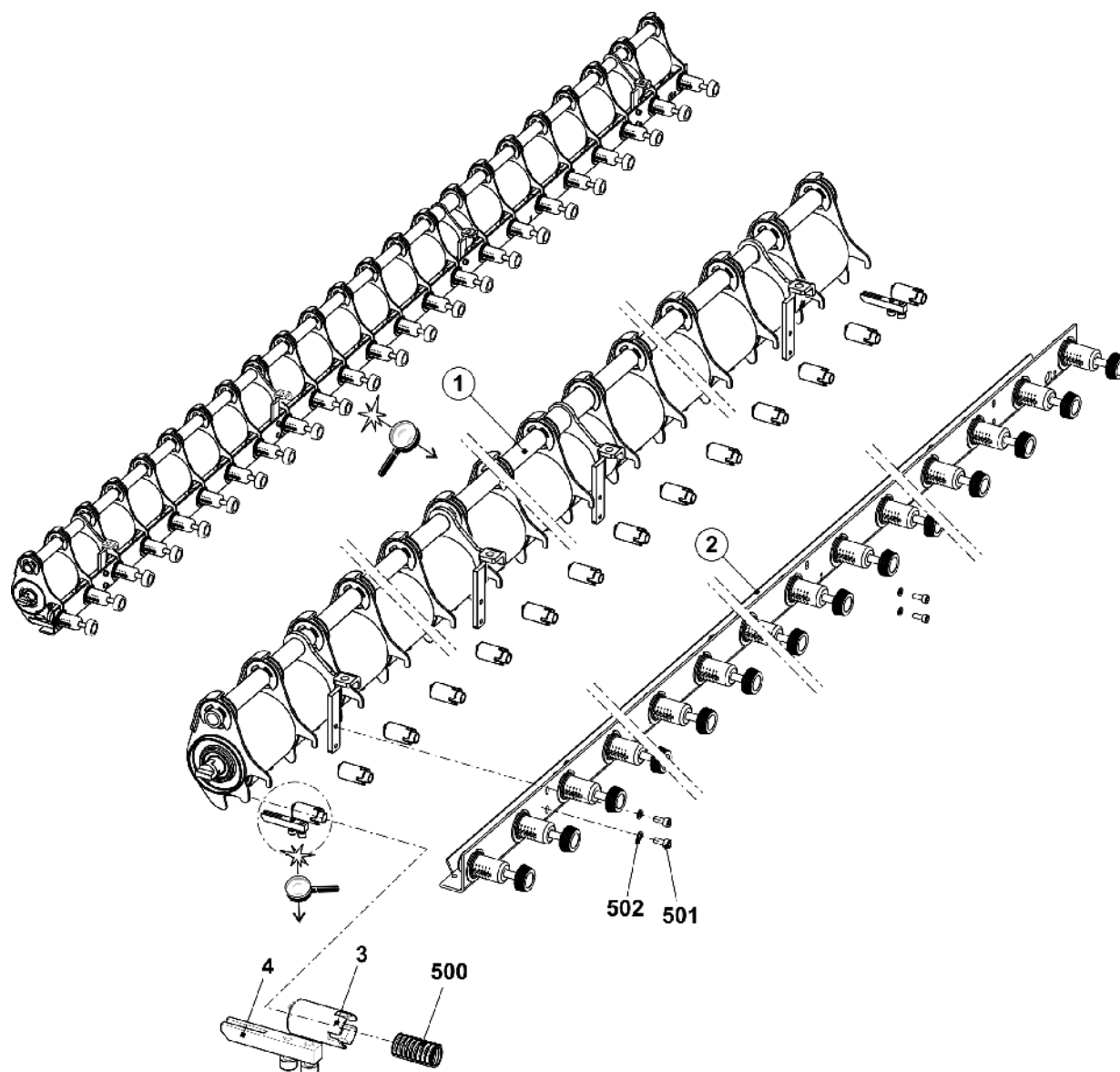
6.4.1 Rear take-down roller

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ	Take-down roller at the rear complete E3-14	254 745			
1	Roller	264 624	10a	Supporting plate	232 512
2	Stripper	241 612	10b	Bearing	232 571
3	Shaft	254 750	10c	Ring	222 895
4	Ring on the left	255 830	11	Brush	225 819
5	Ring on the right	255 831	12	Rod	254 754
6	Spacer slide	222 062	500	Setscrew	258 910
7	Stop ring on the left	204 369	501	Dowel pin 6x32	020 685
8	Spacer slide	264 669	510	Grooved ball bearing 16007	021 697
9	Stop ring on the left	222 910	511	Slide bearing GFM-101216-06	023 280
10	Support	232 578	512	Slide bearing GFM-101216-09	023 356



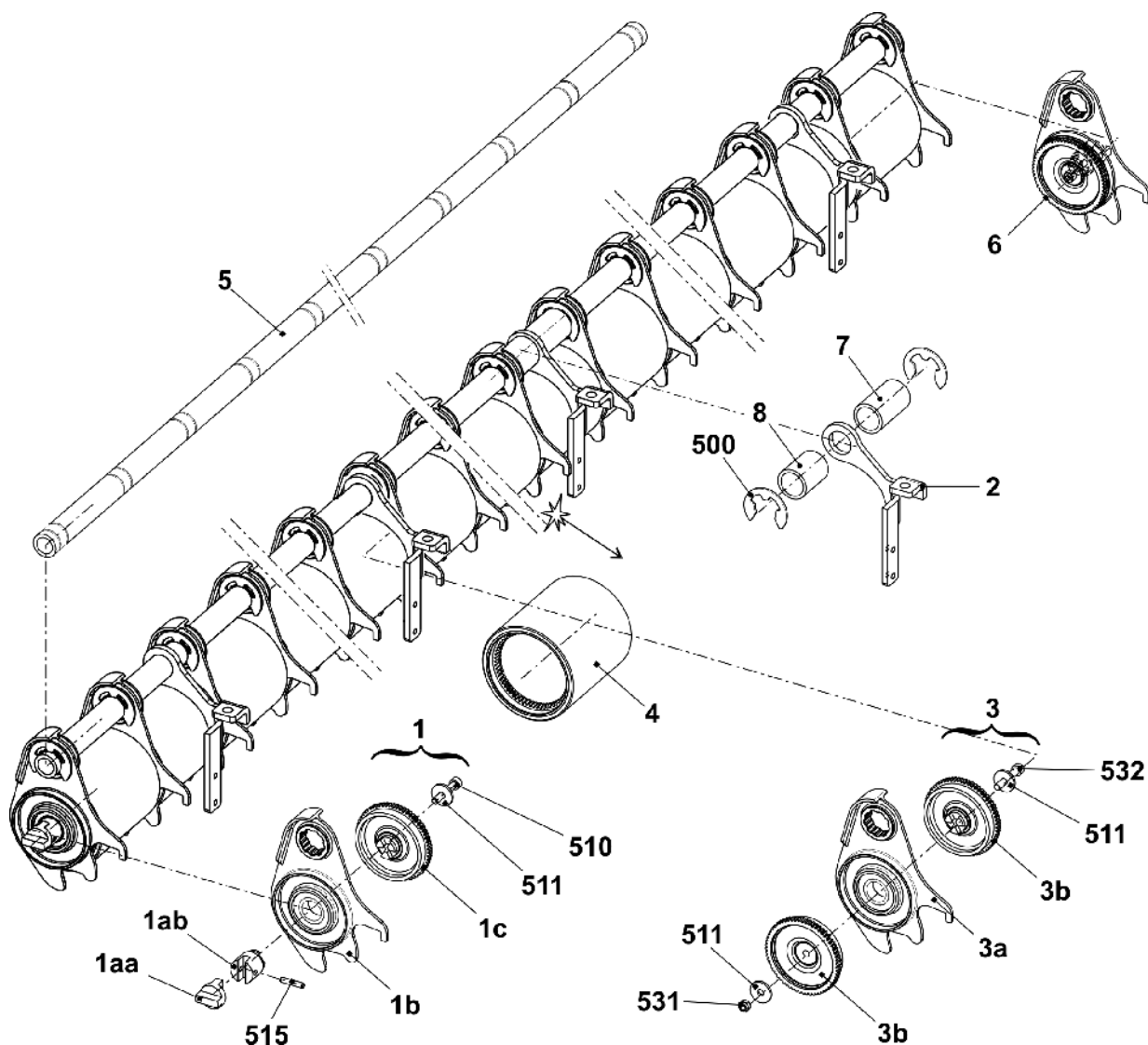
6.4.2 Front take-down roller

Pos	Designation	Id	Pos	Designation	Id
Σ	Take-down roller at the front complete	254 770	4	Locating piece	221 935
1	Take-down roller at the front	253 423	500	Compression spring 1x10x30	023 741
2	Angle rail complete	254 771	501	Cap screw M5x12	020 132
3	Pressure sleeve	220 911	502	Washer 5-200	020 880



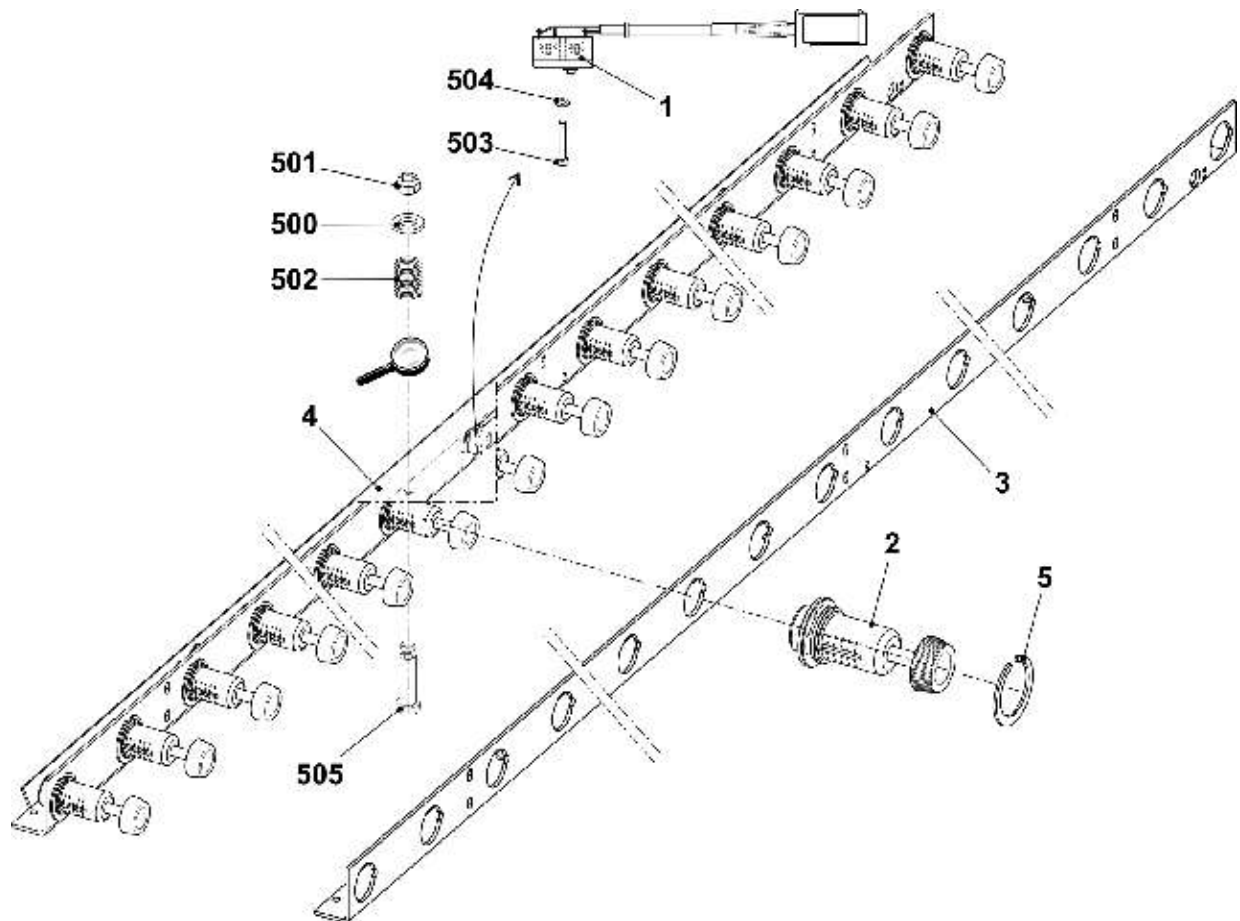
6.4.2.1 Front roller elements

Pos	Designation	ID	Pos	Designation	ID
Σ	Take-down roller at the front	253 423	4	Roller	220 905
1	Bearing support on the left complete	221 225	5	Tube	237 191
1aa	adaptor	221 132	6	Bearing support on the right complete	221 240
1ab	Universal joint	221 137	1aa	Universal joint	221 137
1b	Bearing support	220 913	1ab	adaptor	221 132
1c	Gear wheel	220 910	1b	Bearing support	220 913
510	Cap screw M5x20	020 133	1c	Gear wheel	220 910
511	Washer 5	023 542	510	Cap screw M5x20	020 133
515	Spring dowel sleeve 4x20	023 551	511	Washer 5	023 542
2	Straps	251 557	515	Spring dowel sleeve 4x20	023 551
3	Bearing support complete	221 241	7	Spacer pipe on the right	253 407
3a	Bearing support	220 913	8	Spacer pipe on the left	253 408
3b	Gear wheel	220 910	500	Circlip	021 025
531	Hexagon nut M5-8	023 541			
532	Cap screw M5x30	022 396			



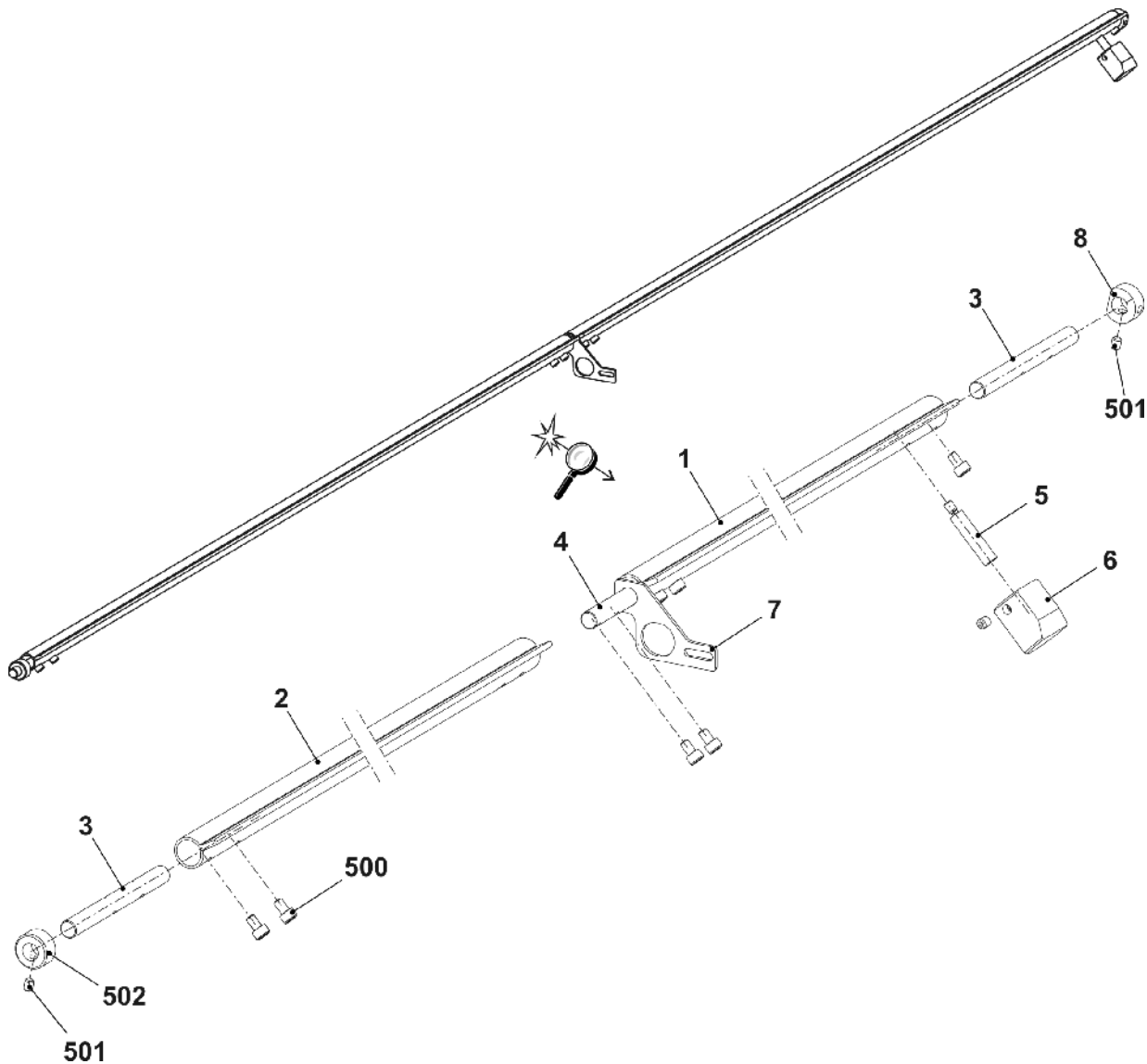
6.4.2.2 Pressure angle rail

Pos	Designation	ID	Pos	Designation	ID
Σ	Angle rail complete	254 771	500	Washer 6	022 431
1	Switch complete with cable	221 265	501	Hexagon nut M5-8	023 541
2	Spring flange	242 327	502	Compression spring 0,8x9,2x27,5	023 537
3	Angle rail	254 772	503	Cap screw M2x12	023 522
4	Winding plate	237 195	504	Washer 2-200	022 908
5	Retaining ring	242 325	505	Shoulder screw M5x20x5	023 675



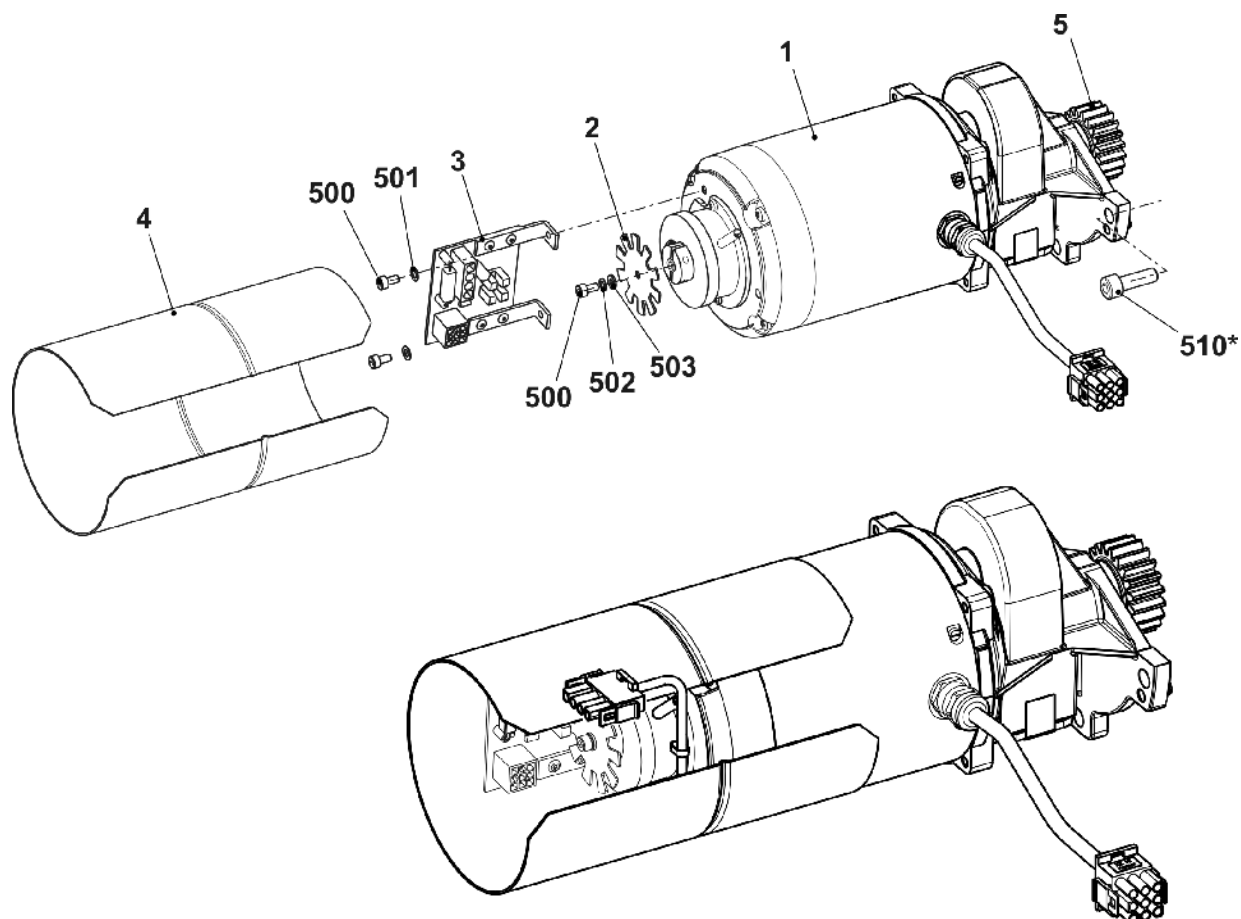
6.4.3 Stripper angle

Pos	Designation	Id	Pos	Designation	Id
Σ	Stripper angle at the rear complete	260 441	6	Adjustment weight	260 426
1	Stripper angle on the right	259 974	7	Bracket	260 060
2	Stripper angle on the left	259 975	8	Cam	260 109
3	Axle	259 969	500	Cap screw M5x8	023 319
4	Axle	259 970	501	Setscrew M5x6	022 738
5	Bolts	228 310	502	Set collar	020 934



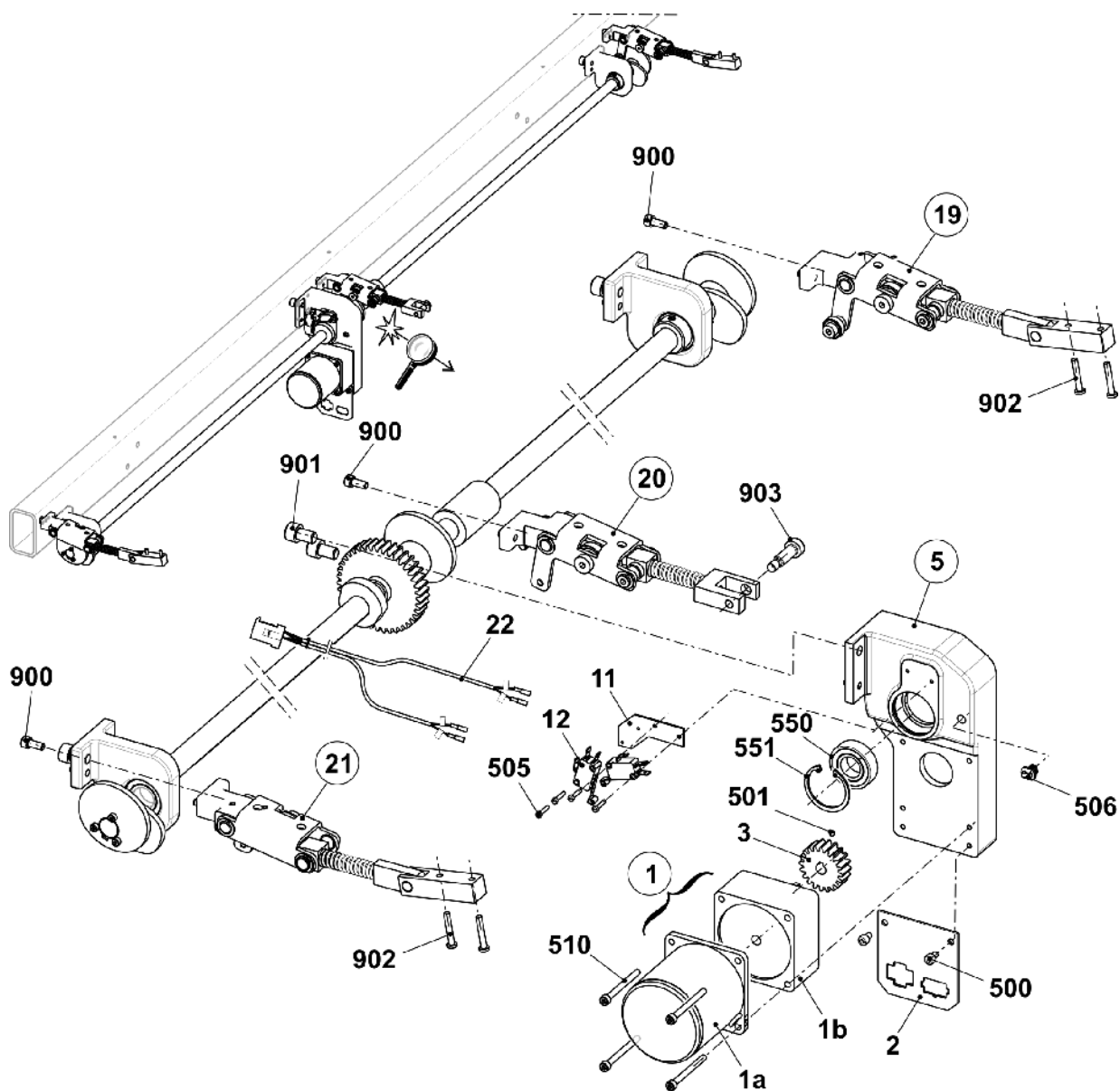
6.4.4 Impulse sensor and motor

Pos	Designation	Id	Pos	Designation	Id
Σ	Motor take-down unit complete	253 803			
1	Asynchronous torque motor (complete)	257 438	500	Cap screw M4x8	022 501
2	Impulse disc	208 716	501	Washer 4-200	020 879
3	Light barrier take-down + comb	300 744	502	Circlip	022 774
4	Cover	212 262	503	Shim ring 4x8x1	023 369
5	Gear wheel	241 668	510*	Cap screw M8x25	020 142



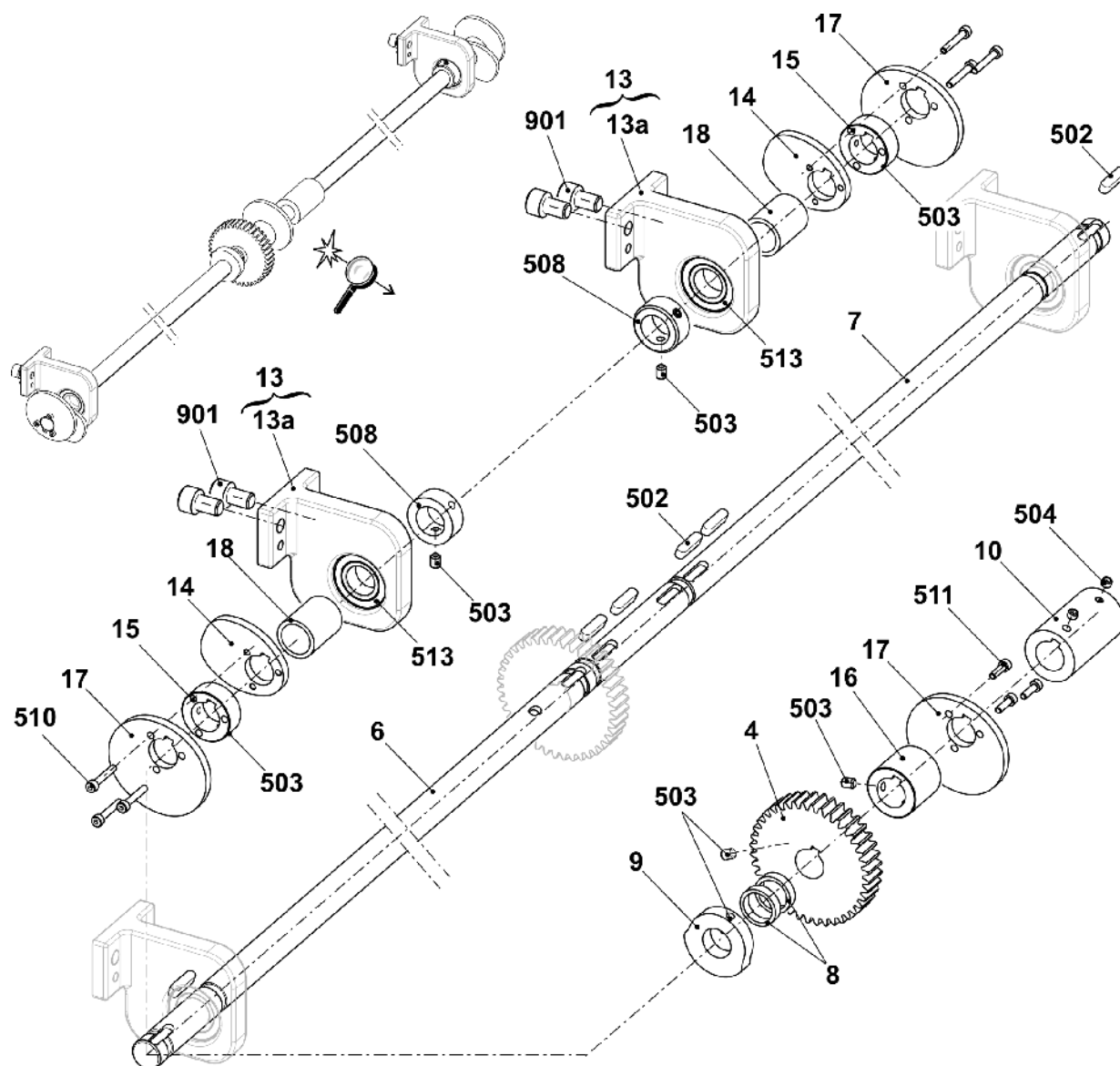
6.5 Take-down closing device

Pos	Designation	ID	Pos	Designation	ID
Σ	Main take-down on / off complete	254 762	19	Swivel support on the right complete	253 389
1	Motor complete		20	Swivel holder in the middle complete	239 188
1a	Motor 25W	232 456	21	Swivel holder on the left complete	253 388
1b	Gear unit	234 983	22	Cable switch HAAB open	232 442
510	Cap screw M5x55	023 321	500	Cap screw M5x8	023 319
2	Sheet metal	232 992	501	Setscrew M4x4	022 875
3	Gear wheel	232 434	505	Cap screw M3x15	020 009
5	Support in the middle complete		506	Assembling element	209 543
550	Grooved ball bearing 6004-2Z	022 720	900	Cap screw M6x14	022 658
551	Retaining ring 42x1,75	023 293	901	Cap screw M10x16	023 895
11	Limit switch retaining plate	235 190	902	Screw M50x30	253 257
12	Microswitch XGK2-S21 250 VAC	210 510	903	Cap screw M10x25	023 751



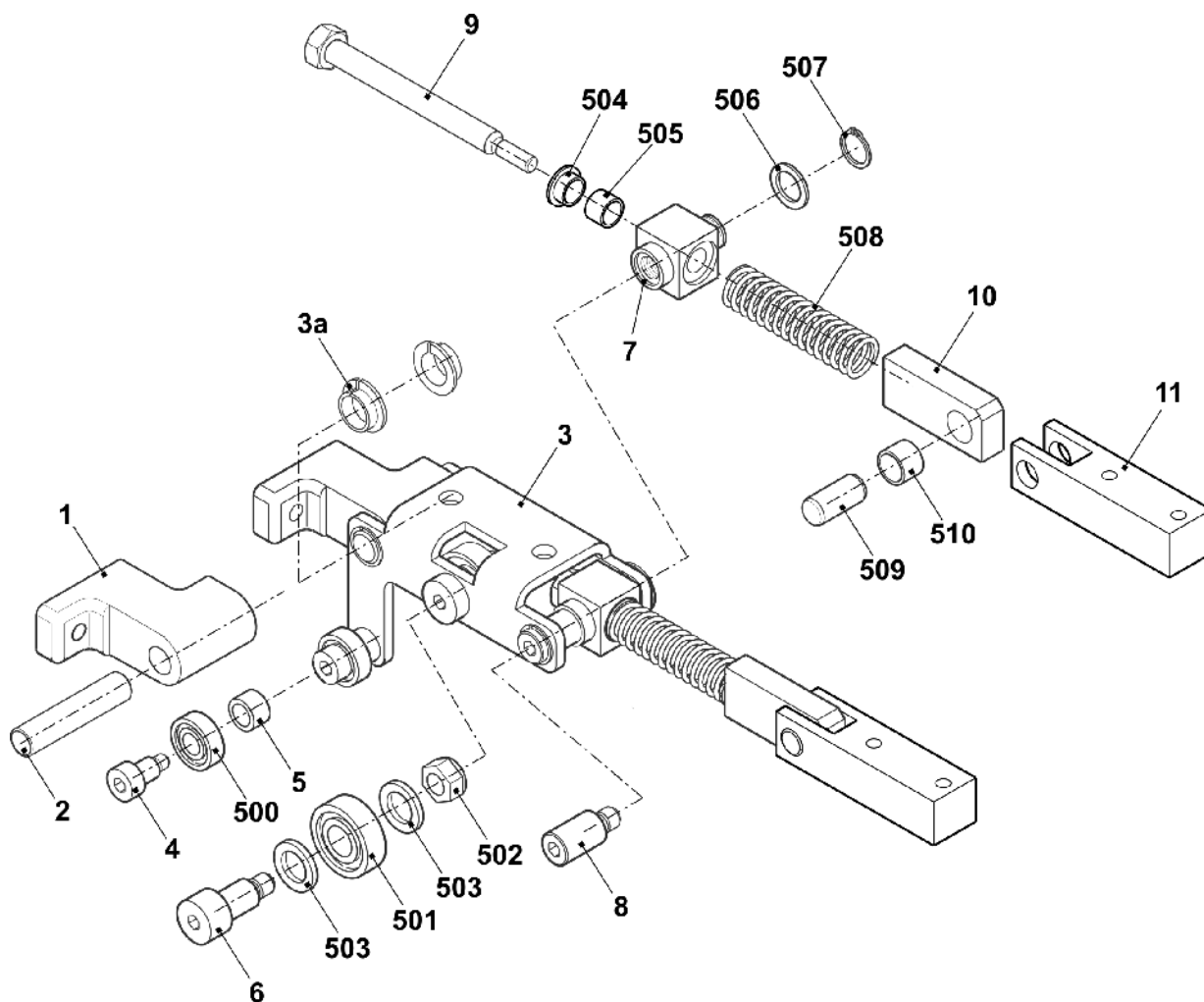
6.6 Continuation of take-down closing device

Pos	Designation	ID	Pos	Designation	ID
Σ	Main take-down on / off complete	254 762	15	Guide bush	234 876
4	Gear wheel	213 744	16	Guide bush	235 623
6	Shaft	254 765	17	Eccentric	232 382
7	Shaft	254 766	18	Spacer pipe	235 128
8	Threaded spacer	232 385	502	Feather key A 6x6x25	023 017
9	Trip cam	232 383	503	Setscrew M6x8	023 723
10	Coupling	232 604	504	Setscrew M6x5	023 192
13	Support on the outside complete	235 248	508	Set collarA20	020 938
13a	Support	234 780	510	Cap screw M4x25	023 302
513	Grooved ball bearing 6004-2Z	022 720	511	Cap screw M4x14	023 604
14	Eccentric	235 135	901	Cap screw M10x16	023 895



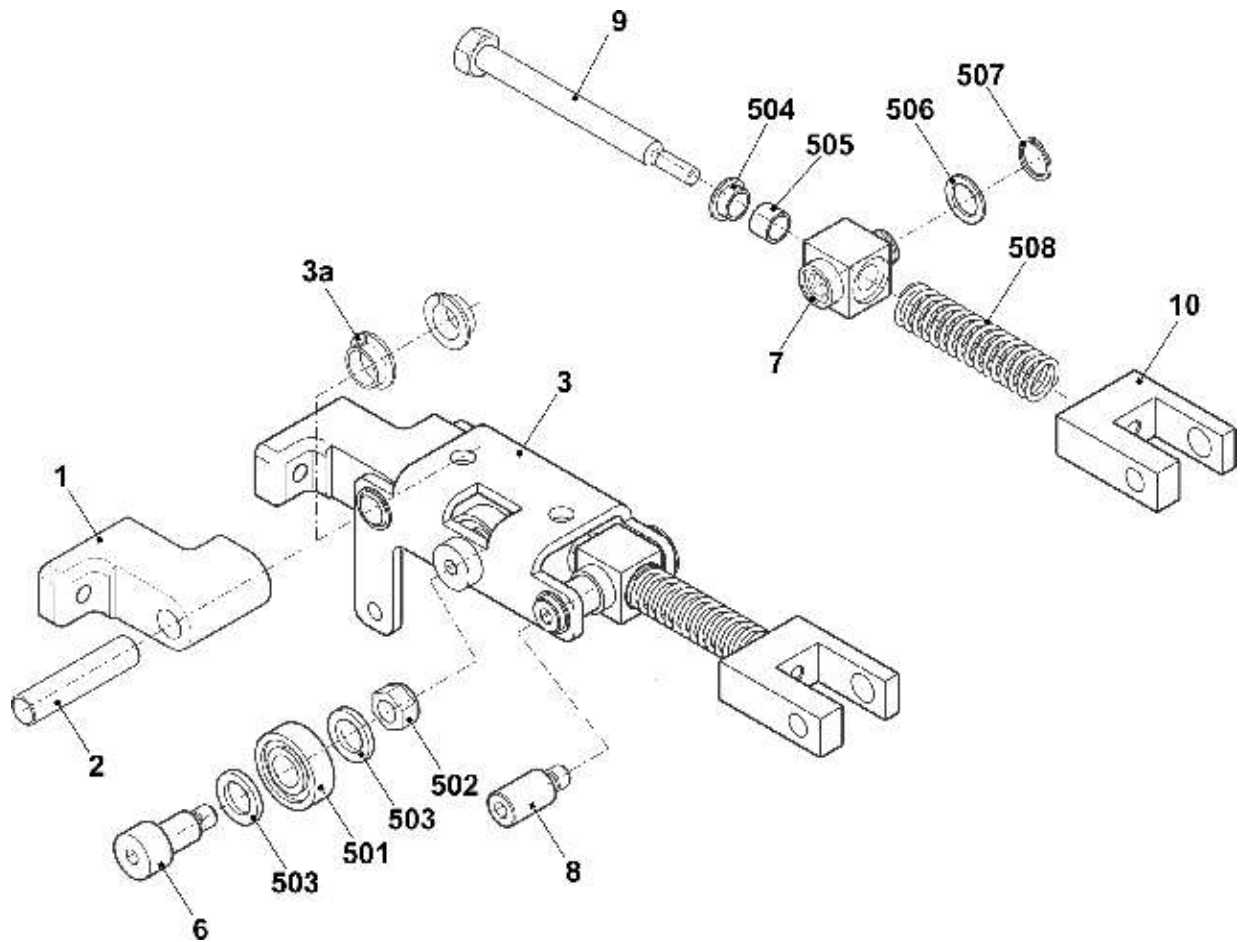
6.6.1 Right swivel support

Pos	Designation	ID	Pos	Designation	ID
Σ	Swivel support on the right complete	253 389	11	Lever	253 199
1	Support	239 163	500	Grooved ball bearing 619/8-2RS	023 728
2	Bearing pin	239 164	501	Grooved ball bearing 6000-2Z	022 599
3	Bow	238 974	502	Hexagon nut M8-8	022 843
3a	Clip bearing 11-MCM-12-04	023 639	503	Shim ring 10x16x2	023 600
4	Shoulder screw	239 133	504	Slide bearing GFM-081014-06	023 358
5	Threaded spacer	239 134	505	Slide bearing GSM-0810-10	023 896
6	Shoulder screw	239 132	506	Shim ring 12x18x1	023 315
7	Swivel-mounted bearing	239 100	507	Retaining ring 12x1	020 951
8	Bearing bolt	239 117	508	Compression spring 2,5x12,5x67,5	023 743
9	Spring mandrel on the inside	232 388	509	Dowel pin 10x20	023 616
10	Lever	238 370	510	Slide bearing GSM-1012-10	239 178



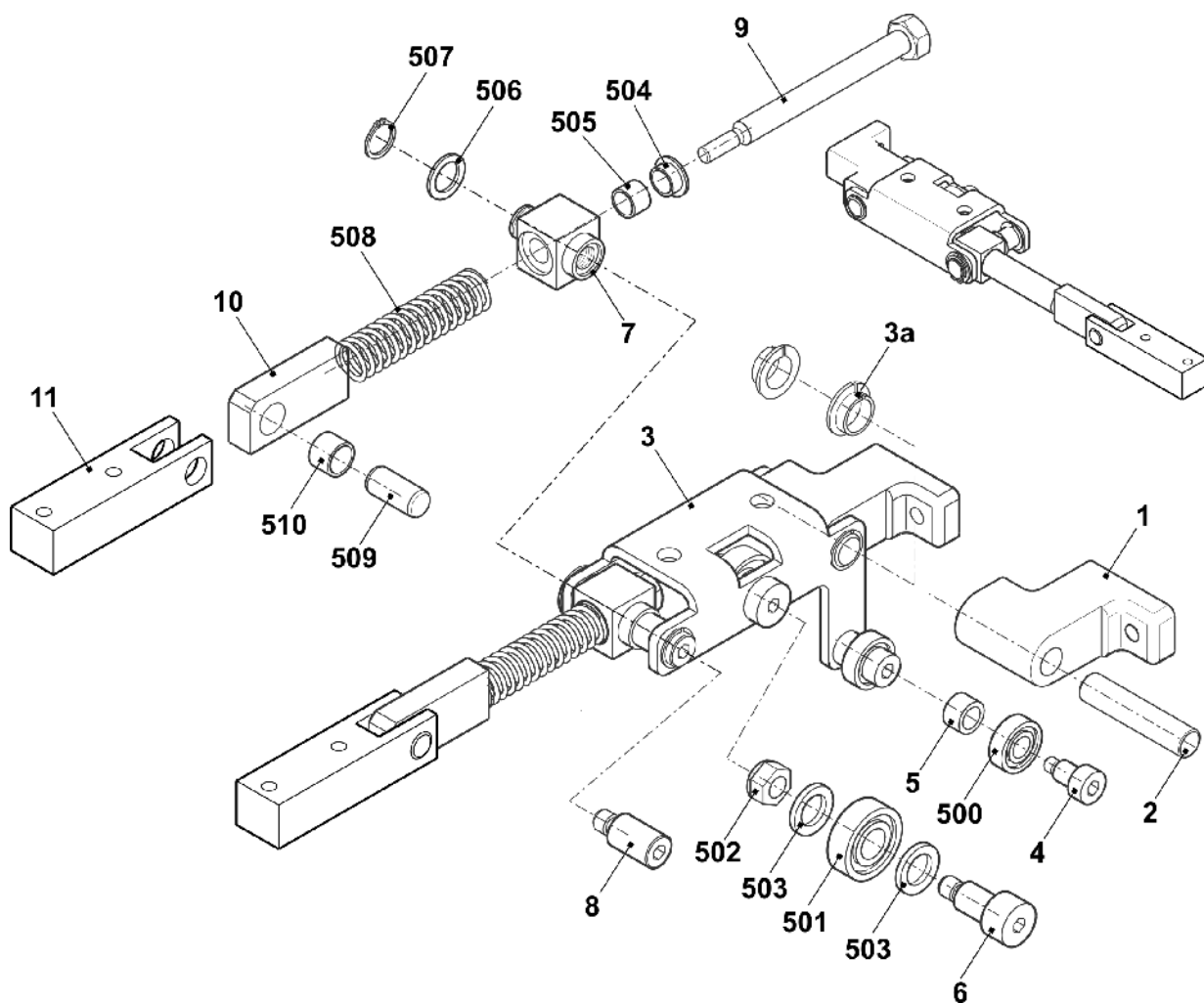
6.6.2 Swivel holder in the middle

Pos	Designation	ID	Pos	Designation	ID
Σ	Swivel holder in the middle complete	239 188	10	Angle	238 778
1	Support	239 163	501	Grooved ball bearing 6000-2Z	022 599
2	Bearing pin	239 164	502	Hexagon nut M8-8	022 843
3	Bow	238 974	503	Shim ring 10x16x2	023 600
3a	Clip bearing 11-MCM-12-04	023 639	504	Slide bearing GFM-081014-06	023 358
6	Shoulder screw	239 132	505	Slide bearing GSM-0810-10	023 896
7	Swivel-mounted bearing	239 100	506	Shim ring 12x18x1	023 315
8	Bearing bolt	239 117	507	Retaining ring 12x1	020 951
9	Spring mandrel on the inside	232 388	508	Compression spring 2,5x12,5x67,5	023 743



6.6.3 Left swivel holder

Pos	Designation	ID	Pos	Designation	ID
Σ	Swivel holder on the left complete	253 388	11	Lever	253 199
1	Support	239 163	500	Grooved ball bearing 619/8-2RS	023 728
2	Bearing pin	239 164	501	Grooved ball bearing 6000-2Z	022 599
3	Bow on the left	239 184	502	Hexagon nut M8-8	022 843
3a	Clip bearing 11-MCM-12-04	023 639	503	Shim ring 10x16x2	023 600
4	Shoulder screw	239 133	504	Slide bearing GFM-081014-06	023 358
5	Threaded spacer	239 134	505	Slide bearing GSM-0810-10	023 896
6	Shoulder screw	239 132	506	Shim ring 12x18x1	023 315
7	Swivel-mounted bearing	239 100	507	Retaining ring 12x1	020 951
8	Bearing bolt	239 117	508	Compression spring 2,5x12,5x67,5	023 743
9	Spring mandrel on the inside	232 388	509	Dowel pin 10x20	023 616
10	Lever	238 370	510	Slide bearing GSM-1012-10	239 178

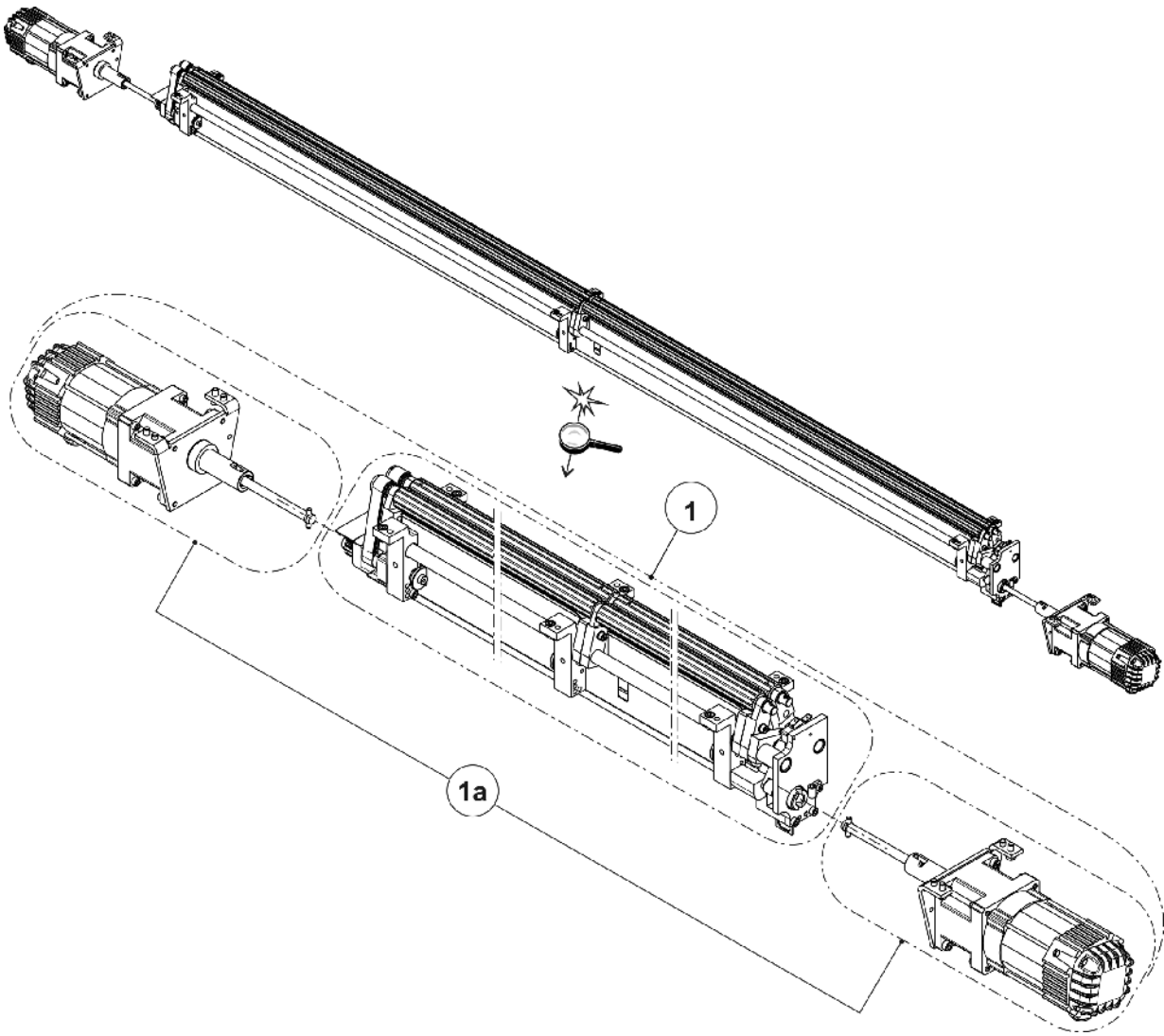


7 Auxiliary Take-down



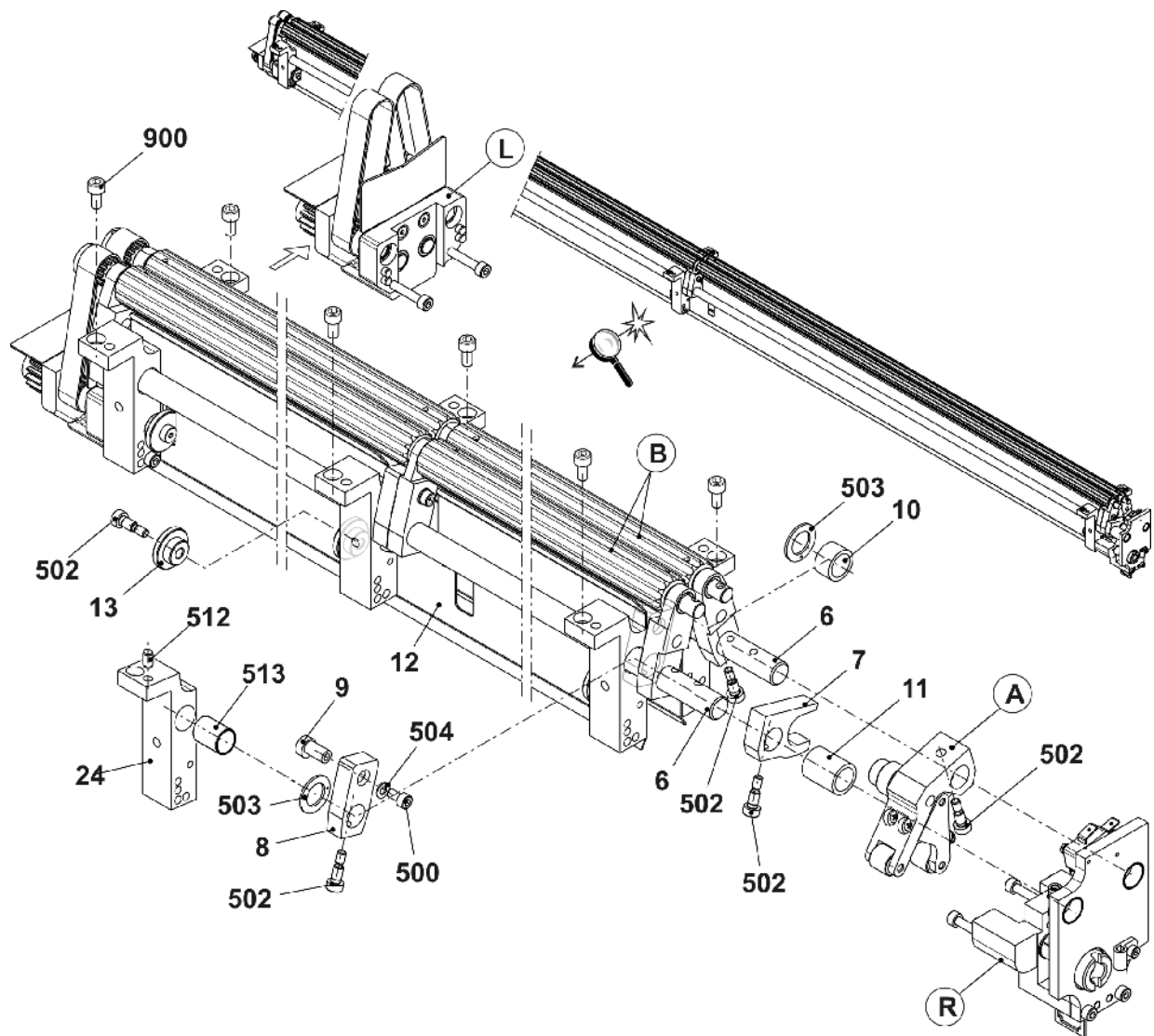
7.1 Auxiliary Take-down

Pos	Designation	Id	Pos	Designation	Id
Σ	Auxiliary take-down				
1	Auxiliary take-down pre-assembled	254 573	1a	Motor with 2 phases auxiliary take-down complete	235 602



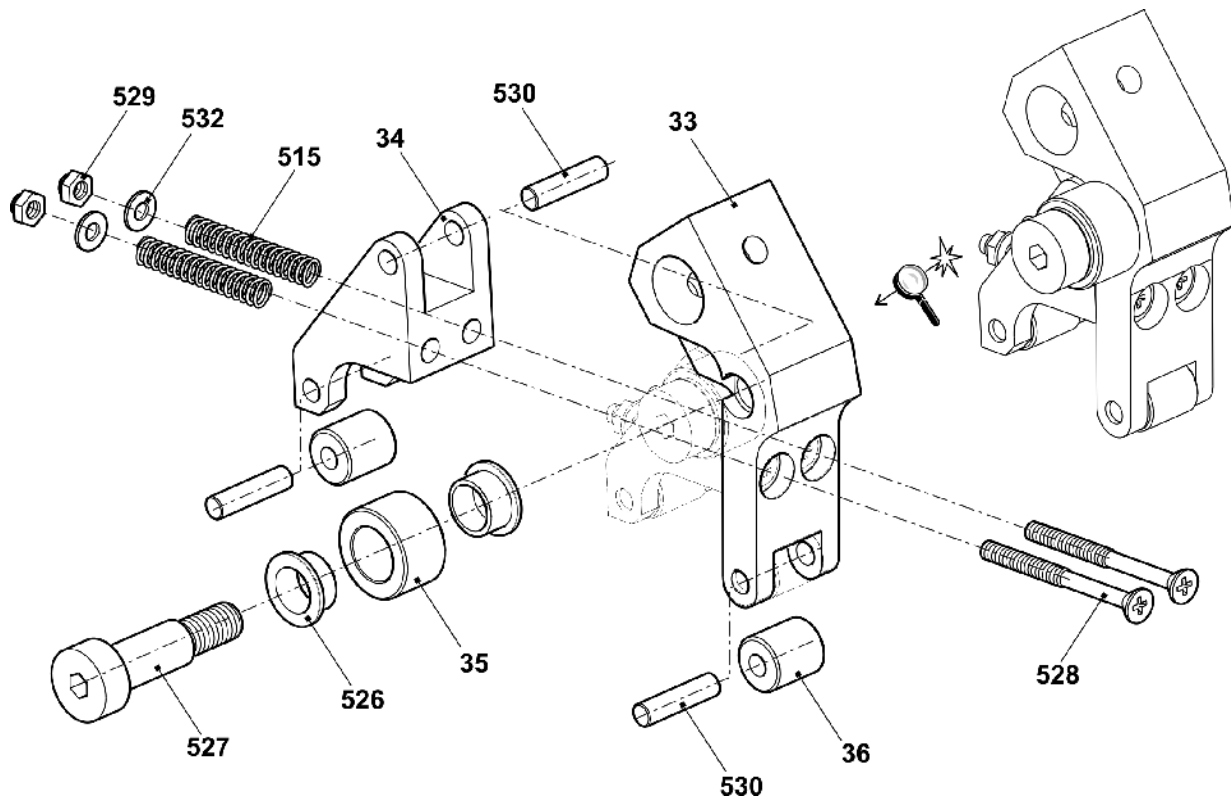
7.1.1 Auxiliary take-down pre-assembled

Pos	Designation	Id	Pos	Designation	Id
Σ	Auxiliary take-down pre-assembled	254 573			
6	Contact shaft	254 545	B	Take-down roller	237 128
7	Lever	235 164	L	Bearing on the left	236 894
8	Clamping lever	235 156	R	Bearing on the right	235 353
9	Eccentric	236 952	500	Cap screw M5x10	022 918
10	Spacer pipe	235 189	502	Cap screw 6x10	235 448
11	Spacer pipe	235 192	503	Stop disk GTM-1524-015	235 447
12	Cover plate	254 544	504	Disk5	020 871
13	Roll	235 178	512	Dowel pin 6x10	023 268
24	Support	235 150	513	Slide bearing FSM-1517-20	237 060
A	Contact lever	235 356	900	Cap screw M6x12	020 134



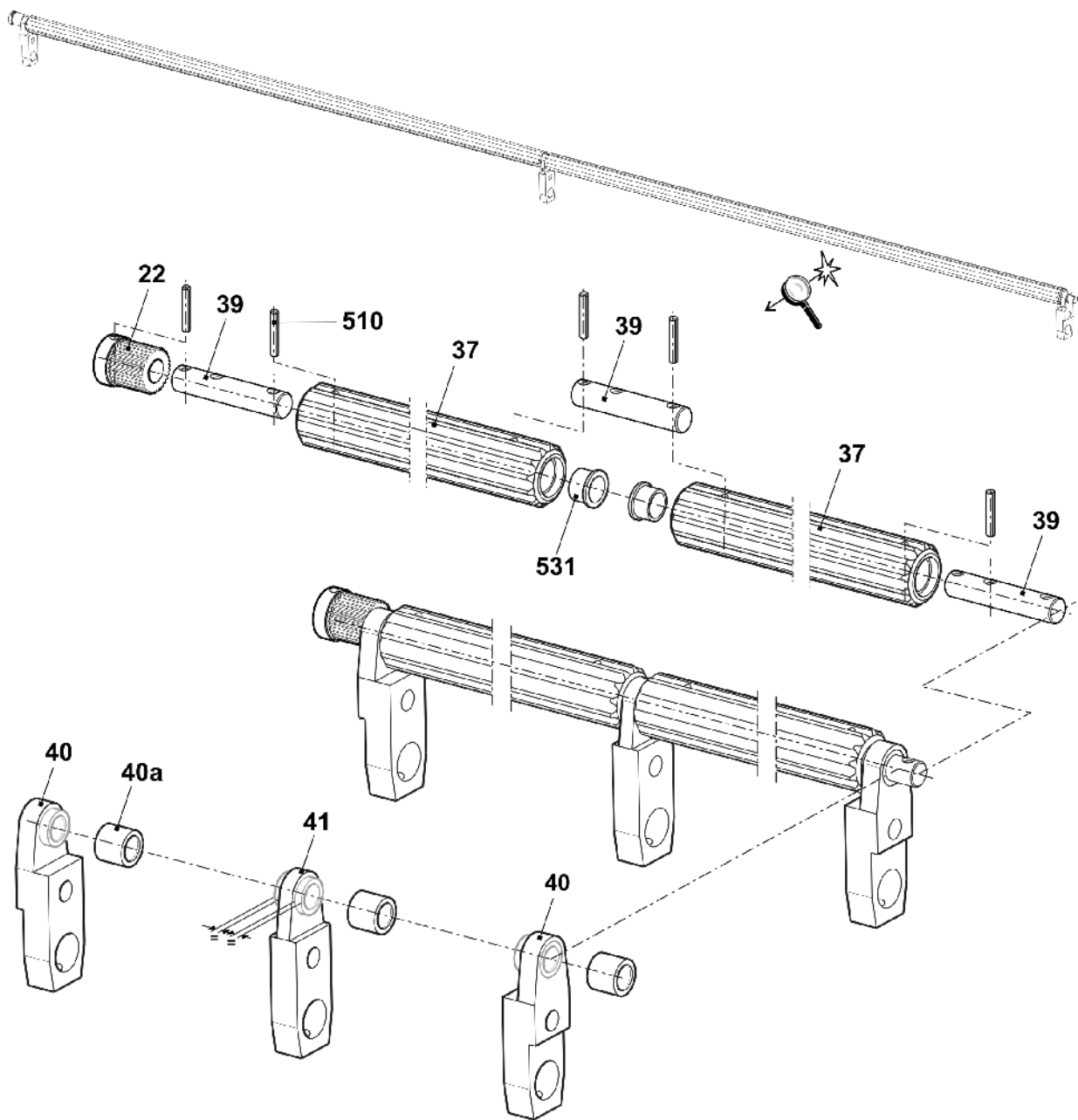
7.1.1.1 Contact lever

Pos	Designation	Id	Pos	Designation	Id
Σ	Contact lever	235 356	526	Slide bearing GFM-10x1216-06	023 280
33	Lever	235 172	527	Cap screw M10x16	023 748
34	Tilting lever	235 173	528	Countersunk screw M4x45	023 291
35	Roller	235 176	529	Hexagon nut M4-8	023 046
36	Roll	235 171	530	Dowel pin 5x22-A-ST	023 716
515	Compression spring 1,6x6,4x27,1	023 288	532	Washer 4	020 870



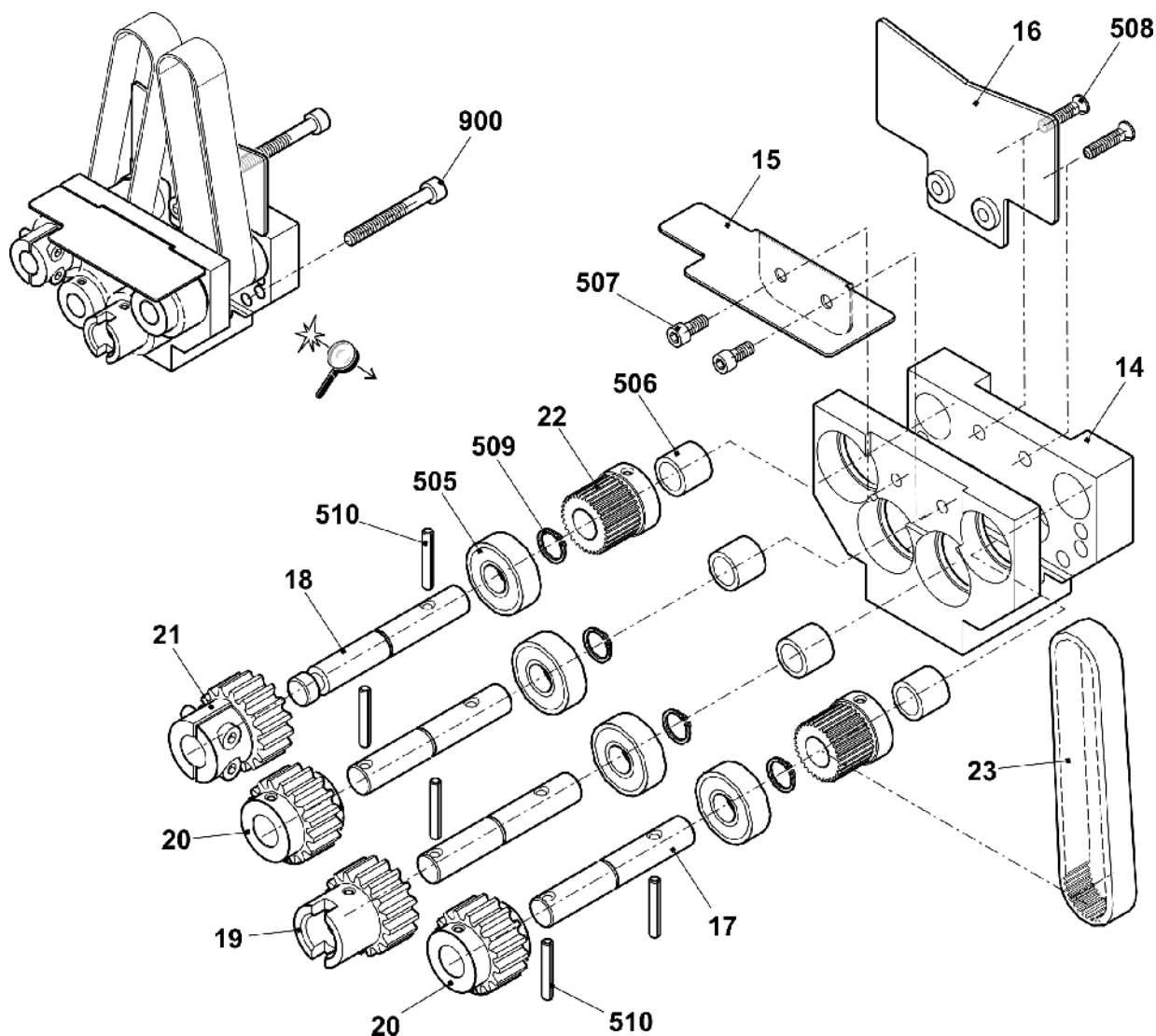
7.1.1.2 Take-down roller

Pos	Designation	Id	Pos	Designation	Id
Σ	Take-down roller complete	254 600			
22	Timing belt pulley	237 043	40a	Needle roller bearing 10x14x12	023 665
37	Take-down roller	254 543	41	Lever bearing in the middle complete	235 359
39	Bolts	236 973	531	Slide bearing GFM-101214-07	023 627
40	Lever bearing right/left complete	235 358	510	Spring dowel sleeve 3x18	237 059



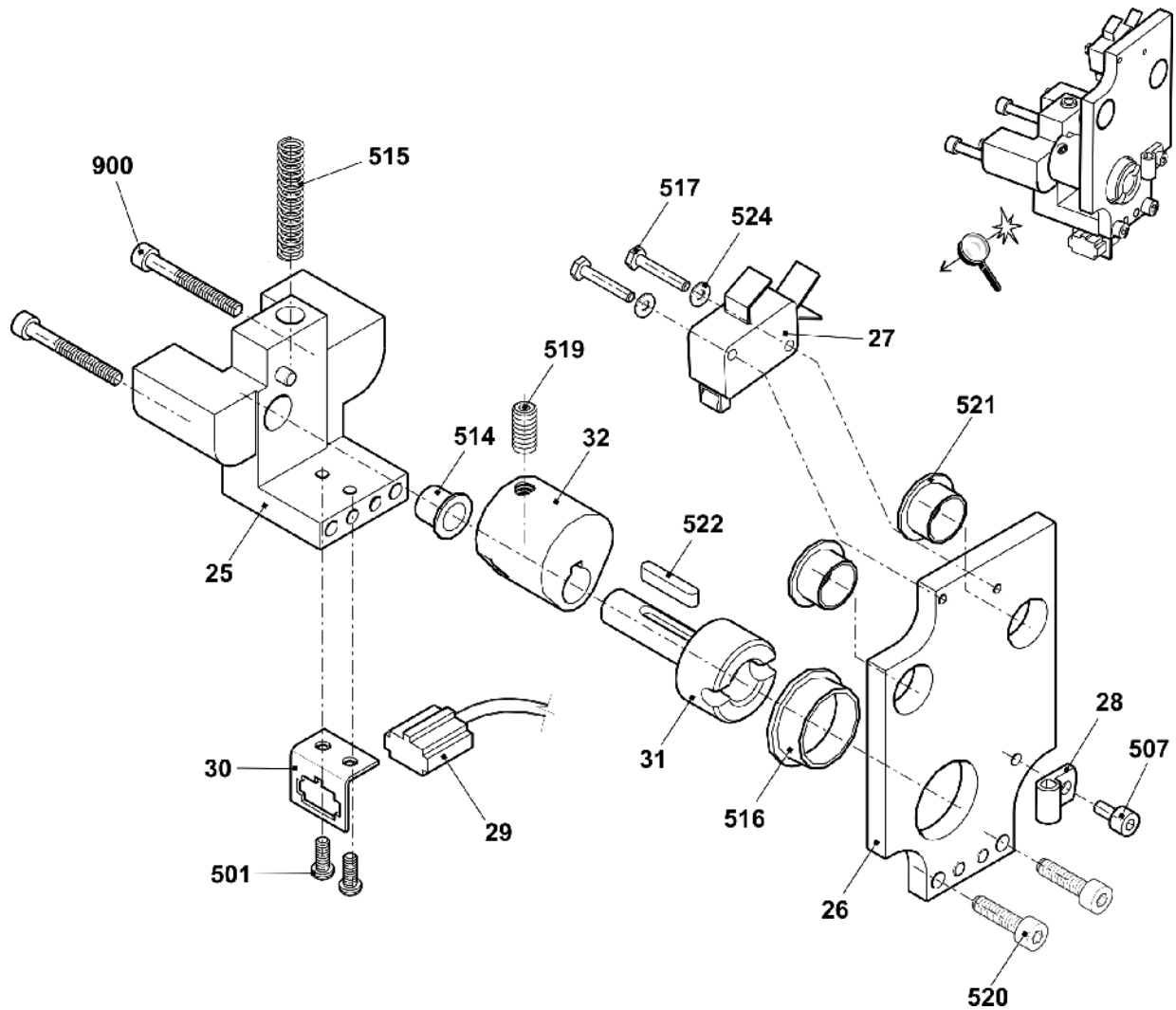
7.1.1.3 Left bearing of the auxiliary take-down

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ	Bearing on the left	236 894	22	Timing belt pulley	237 043
14	Drive bearing	237 422	23	Toothed belt HPS5M NG CLEAN	237 118
15	Cover plate	236 970	505	Grooved ball bearing 61900-2RS1	023 714
16	Cover plate	237 037	506	Needle roller bearing 10x14x10	023 664
17	Bolts	236 964	507	Cap screw M4x8	022 501
18	Bolts	236 963	508	Countersunk screw M4x12	023 062
19	Gear wheel	236 914	509	Retaining ring 10x1	020 950
20	Gear wheel	236 916	510	Spring dowel sleeve 3x18	237 059
21	Gear wheel	236 917	900	Cap screw M5x35	022 879



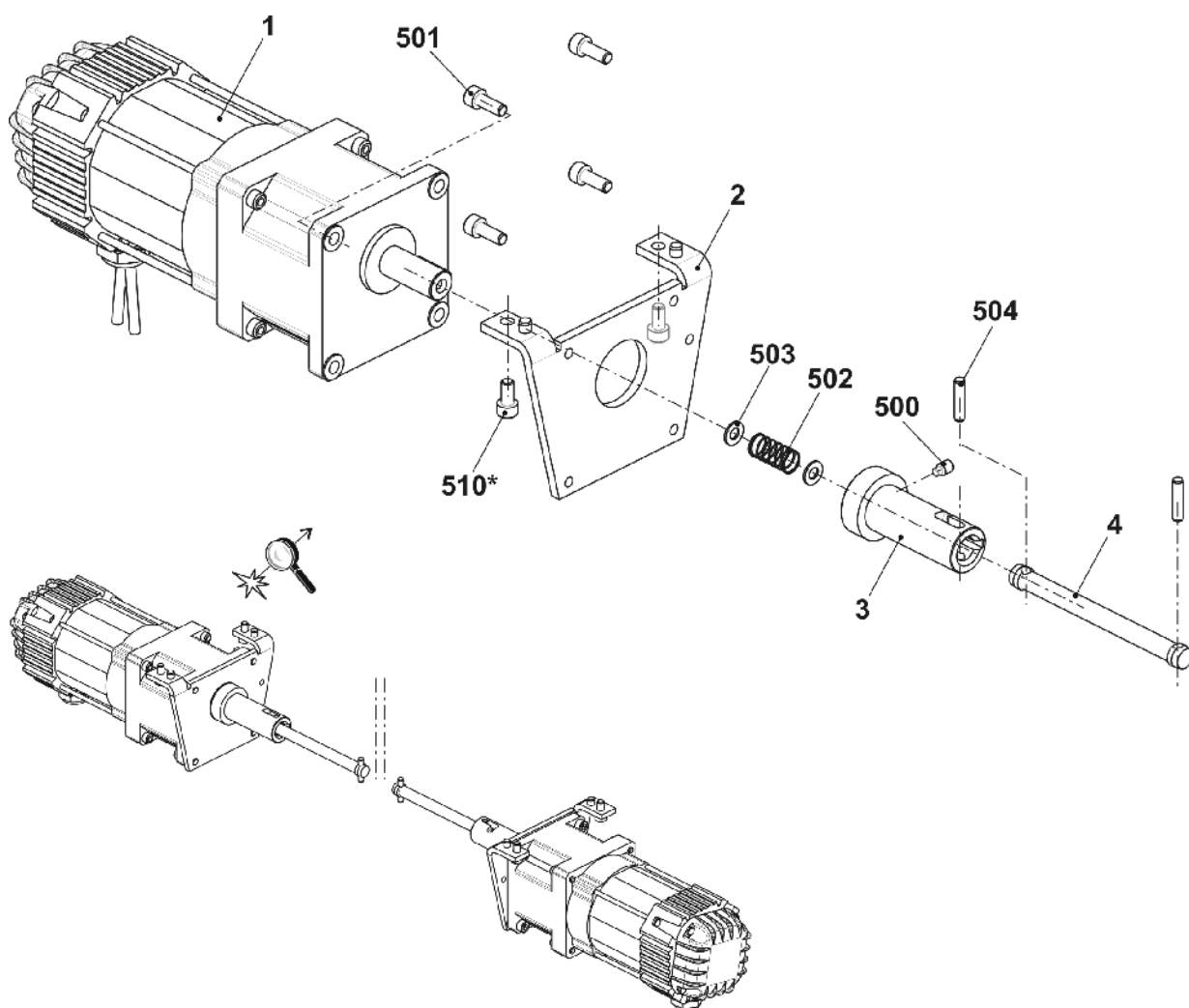
7.1.1.4 Right bearing of the auxiliary take-down

Pos	Designation	Id	Pos	Designation	Id
Σ	Bearing on the right	235 353			
25	Bearing on the right	237 520	514	Slide bearing GFM-101216-09	023 356
26	Plate	235 168	515	Compression spring 1,6x6,4x27,1	023 288
27	Microswitch	026 259	516	Slide bearing GFM-2427-07	023 712
28	Cable clip N-3B 5mm	210 729	517	Hexagon screw M3x16	237 058
29	Cable switch HIAB St468	235 027	519	Setscrew M6x12	023 724
30	Sheet metal for plug	236 068	520	Cap screw M5x16	022 726
31	Shaft	235 159	521	Slide bearing GFM-1517-09	235 342
32	Eccentric	235 165	522	Feather key A 4x4x20	235 349
501	Pan-head screw M4x8	023 579	524	Washer 3	020 877
507	Cap screw M4x8	022 501	900	Cap screw M5x35	022 879

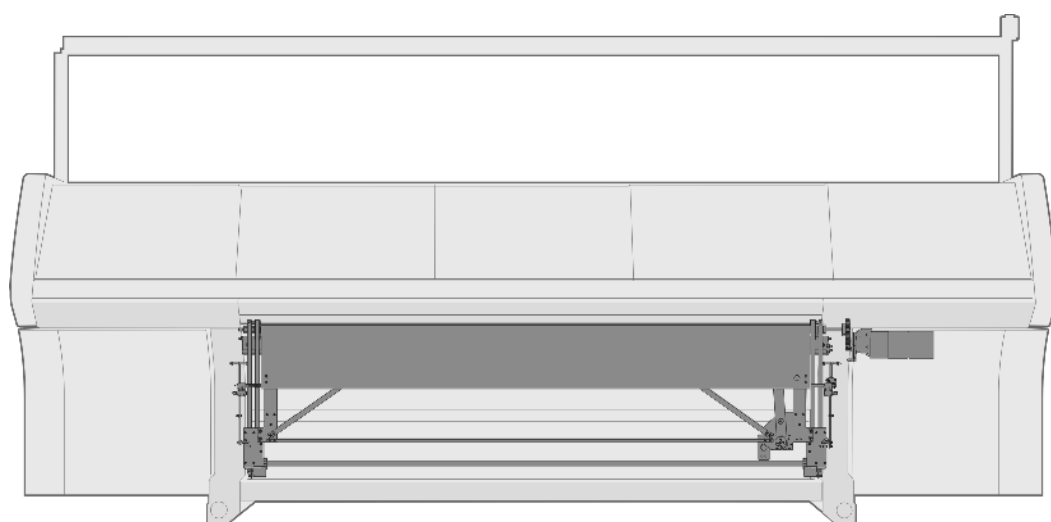


7.1.2 Motor

Pos	Designation	Id	Pos	Designation	Id
Σ	Motor with 2 phases auxiliary take-down complete	235 602			
1	Motor 1,8NM 30MIN-1	234 805	501	Cap screw M6x16	020 135
2	Motor bracket	235 276	502	Compression spring 0,63x10,97x40	023 500
3	Drive sleeve	235 285	503	Shim ring 6x12x1	023 444
4	Shaft	235 300	504	Dowel pin 5x22-A-ST	023 716
500	Setscrew M6x10	023 543	510*	Cap screw M6x12	020 134

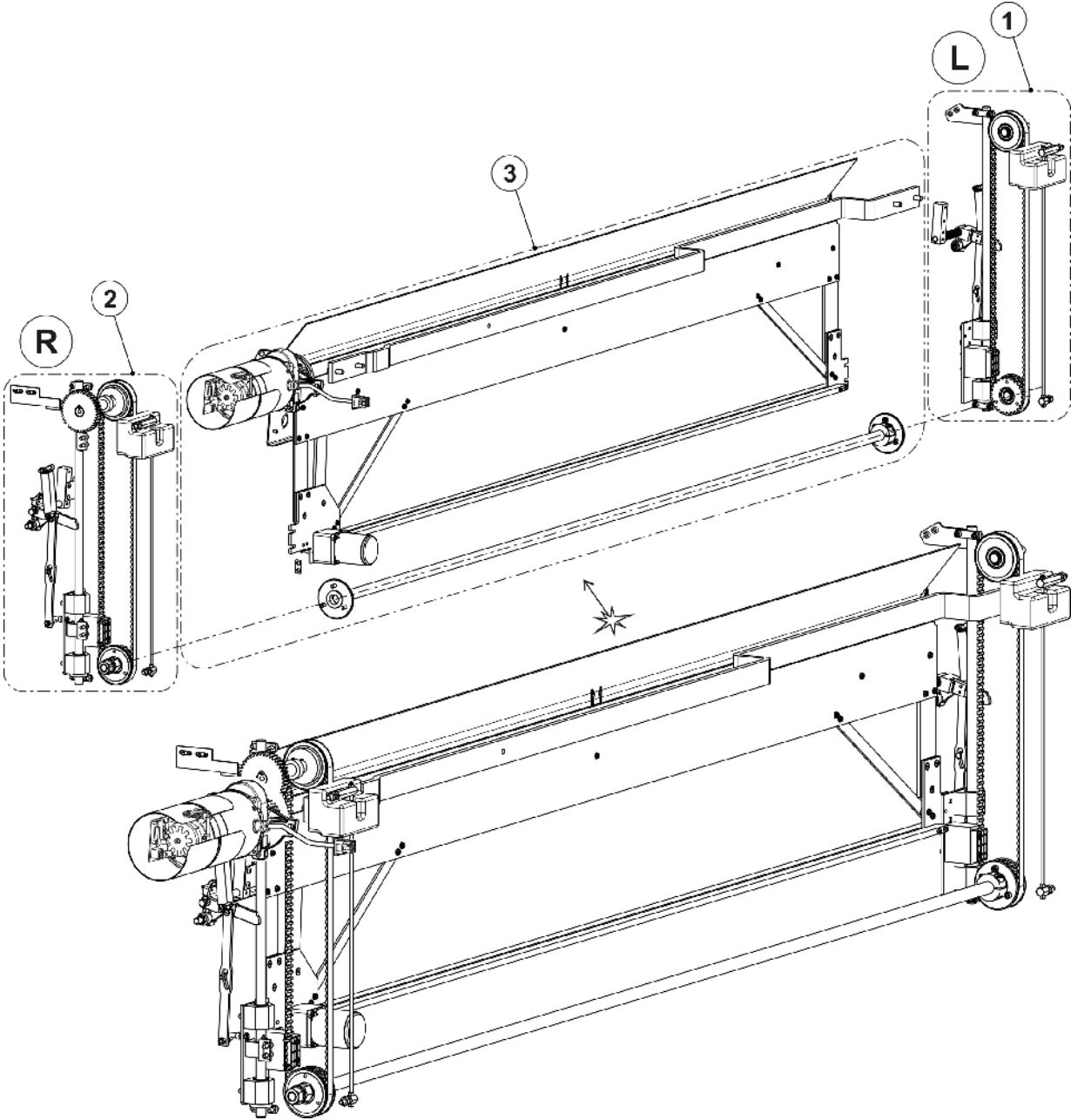


8 Comb Take-down



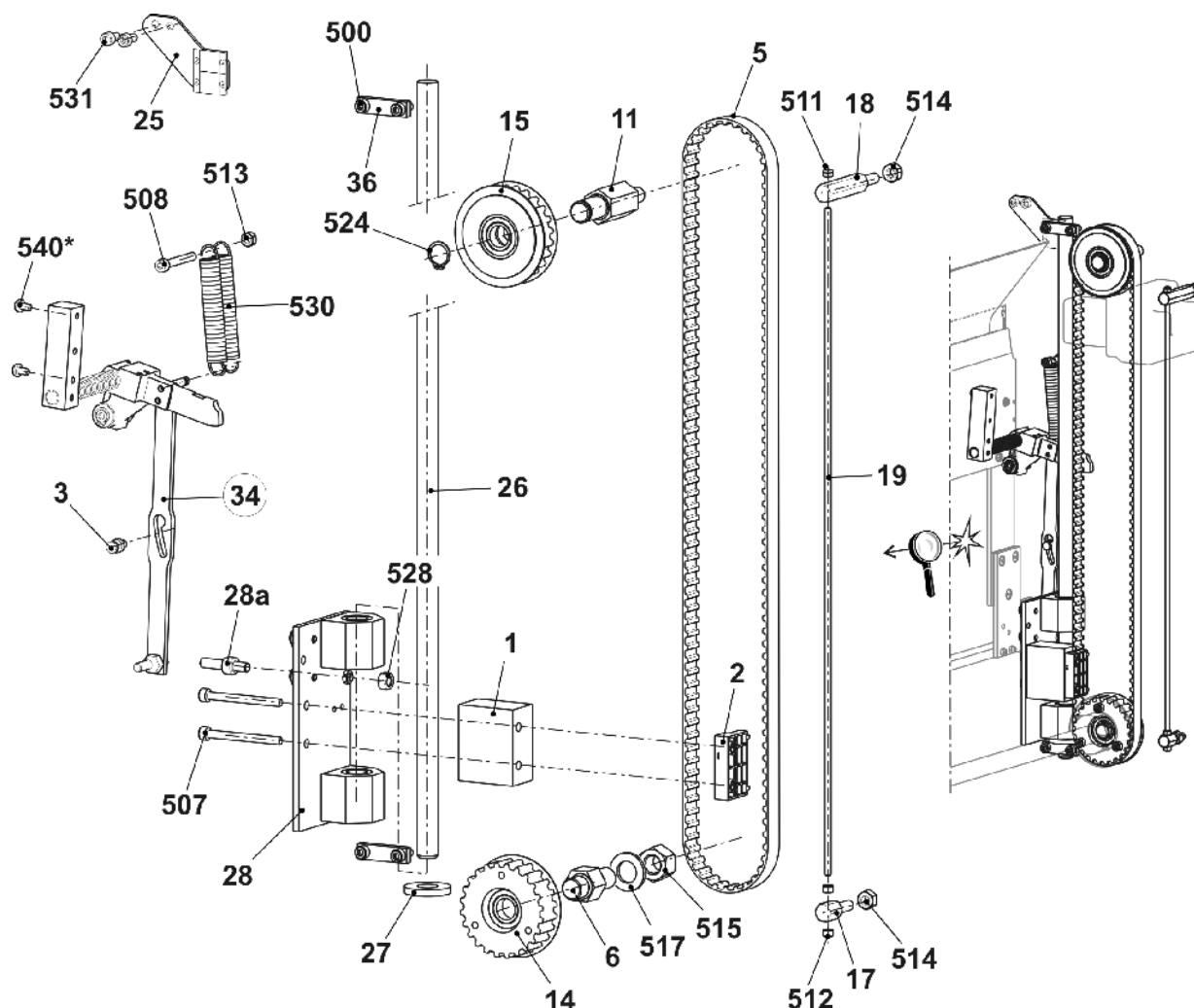
8.1 Comb Take-down

Pos	Designation	ID	Pos	Designation	ID
Σ	Comb take-down		3	Comb take-down in the middleE3,5.2	264 564
1	Comb take-down on the left	261 815		Comb take-down in the middleE7.2	255 151
2	Comb take-down on the right	256 839		Comb take-down in the middleE9.2	255 152



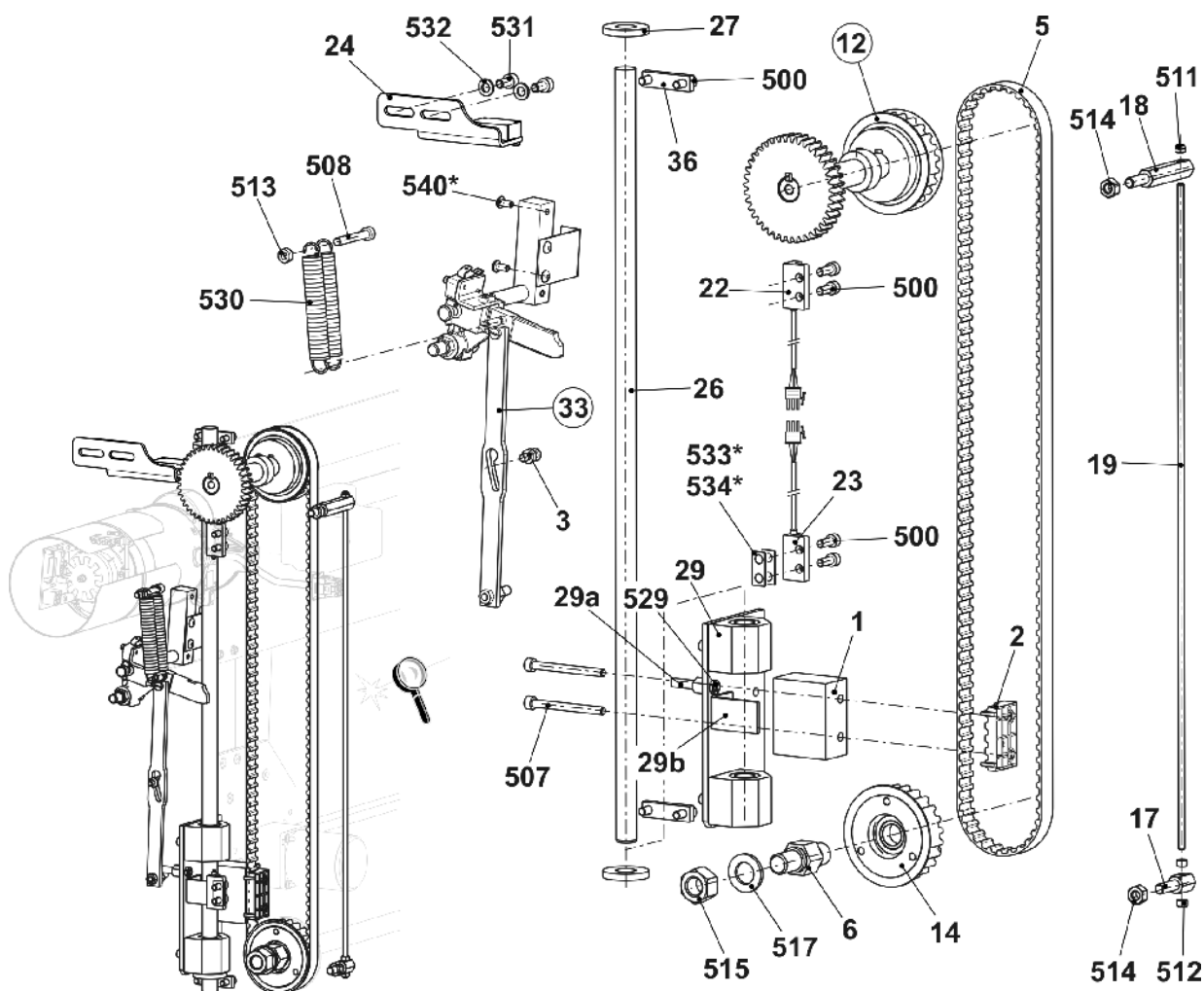
8.1.1 Comb take-down on the left

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ	Comb take-down on the left	261 815			
1	Clamping piece	209 379	528	Hexagon nut M8-6	020 838
2	Pressure plate	241 967	34	Swivel lever on the left	252 859
3	Bolts	222 152	36	Clamping plate	227 159
5	Toothed belt 16T10/1300	240 065	500	Cap screw M6x16	020 135
6	Eccentric pin	222 320	507	Cap screw M6x65	240 162
11	Bolts	207 689	508	Cap screw M6x45	022 689
14	Toothed lock washer at the bottom complete	211 822	511	Hexagon nut M5-8	023 541
15	Toothed lock washer at the top complete	211 823	512	Hexagon nut M5-6	020 835
17	Stay bolt	222 315	513	Hexagon nut M6-6	020 836
18	Stay bolt	240 056	514	Hexagon nut M8-6	020 838
19	Threaded rod M5	240 057	515	Hexagon nut M16-6	020 845
25	Reflector complete	261 374	517	Washer 16	020 876
26	Guide bar C35	206 560	524	Retaining ring 17x1	023 299
27	Rubber buffer	206 561	530	Tension spring Din2097 15x1,50x70,94	251 614
28	Comb guide on the left	255 425	531	Cap screw M6x12	020 134
28a	Driving bolt	255 427	540*	Pan head screw M5x10	023 247



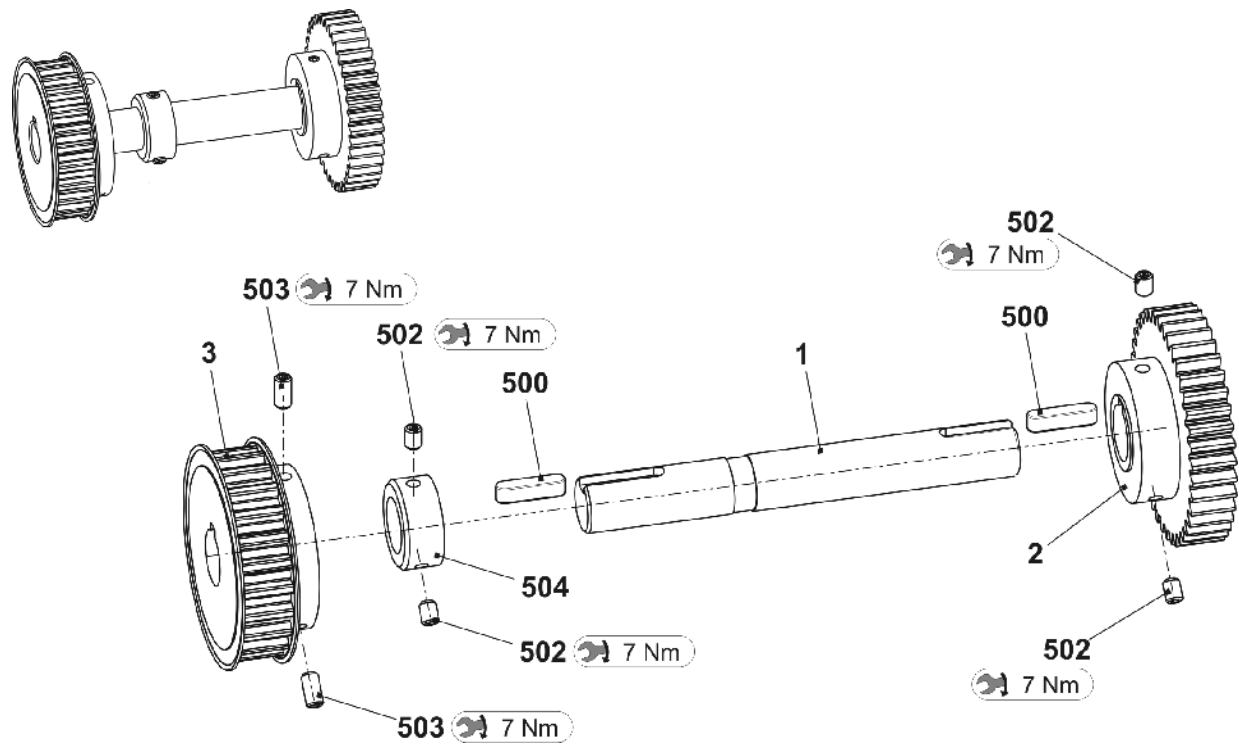
8.1.2 Comb take-down on the right

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ	Comb take-down on the right	256 839			
1	Clamping piece	209 379	529	Hexagon nut M8-6	020 838
2	Pressure plate	241 967	33	Swivel lever on the right	252 858
3	Bolts	222 152	36	Clamping plate	227 159
5	Toothed belt 16T10/1300	240 065	500	Cap screw M6x16	020 135
6	Eccentric pin	222 320	507	Cap screw M6x65	240 162
12	Drive shaft comb complete	214 583	508	Cap screw M6x45	022 689
14	Toothed lock washer at the bottom complete	211 822	511	Hexagon nut M5-8	023 541
17	Stay bolt	222 315	512	Hexagon nut M5-6	020 835
18	Stay bolt	240 056	513	Hexagon nut M6-6	020 836
19	Threaded rod M5	240 057	514	Hexagon nut M8-6	020 838
22	Proximity switch inductive at the top	231 516	515	Hexagon nut M16-6	020 845
23	Proximity switch inductive at the bottom	231 520	517	Washer 16	020 876
24	Holding angle light barrier	257 409	530	Tension spring 15x1,50x70,94	251 614
26	Guide bar C35	206 560	531	Cap screw M6x12	020 134
27	Rubber buffer	206 561	532	Washer 6	020 872
29	Comb guide on the right	255 424	533*	Shim 0,2x12x27	023 735
29a	Driving bolt	255 427	534*	Shim 0,5x12x27	023 736
29b	Angle	240 112	540*	Pan-head screw M5x10	023 247



8.1.2.1 Drive shaft of comb

Pos	Designation	Id	Pos	Designation	Id
Σ	Drive shaft comb complete	214 583			
1	Shaft	213 969	500	Feather key A 6x6x25	023 017
2	Gear wheel Z=40, M=2	213 744	502	Setscrew M6x8	022 684
	Always order position 502 additionally		503	Setscrew M6x12	023 898
3	Toothed belt pulley at the top	206 394	504	Set collar	020 938
	Always order position 503 additionally				

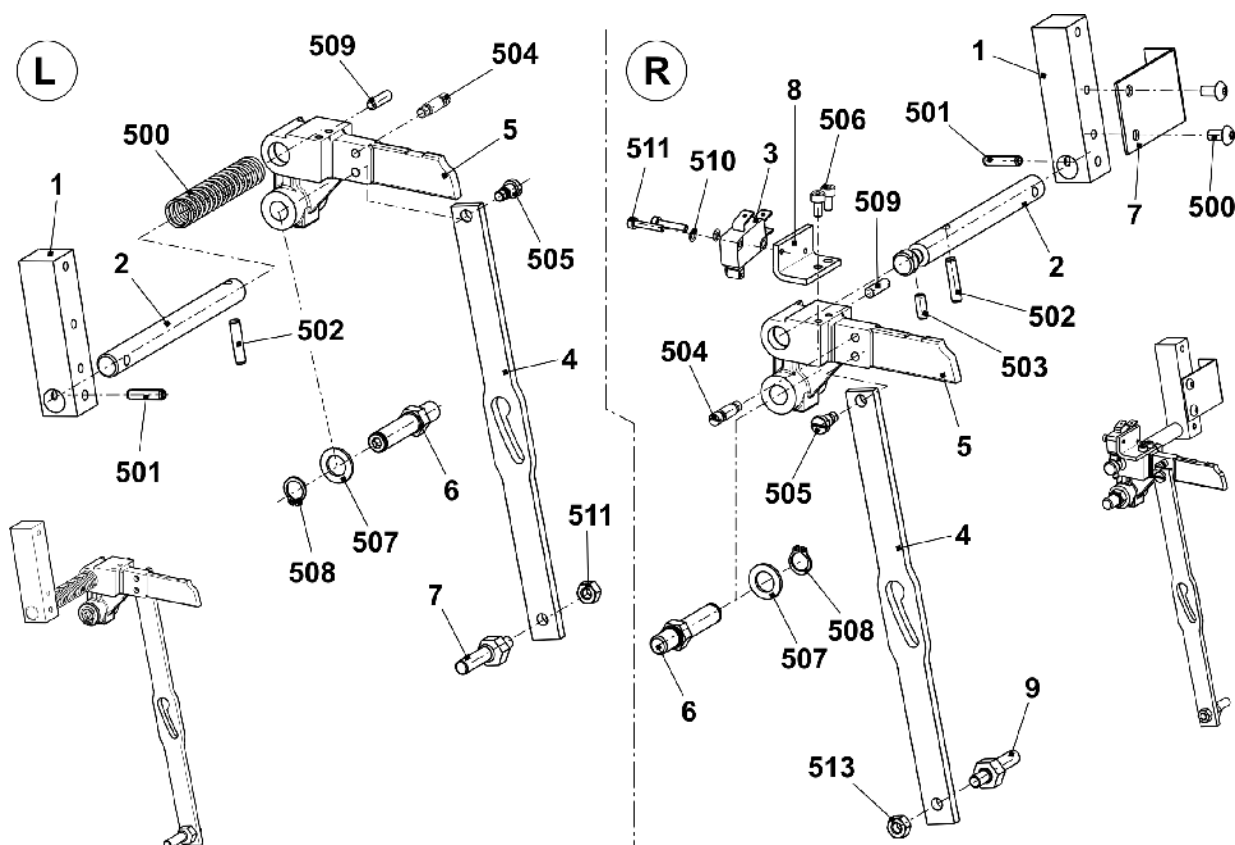


8.1.2.2 Swivel lever comb take-down

Pos	Designation	Id. no.
Σ L	Swivel lever on the left	252 859
1	Support	252 780
2	Shaft	223 994
4	Plunger	255 650
5	Swivel lever	239 248
6	Bolts	214 053
7	Eccentric bolt	255 651
500	Compression spring 1,4x13,6x93	023 572
501	Spring dowel sleeve Iso8752-5x20	020 794
502	Dowel pin5x22	023 716
504	Shoulder screwM5x29x35	251 618
505	Shoulder screw M5x5,8x6,2	023 365
507	Washer 10	020 884
508	Retaining ring	020 950
509	Shoulder screw M5x12x18	020 539
511	Hexagon nut M8-6	020 838

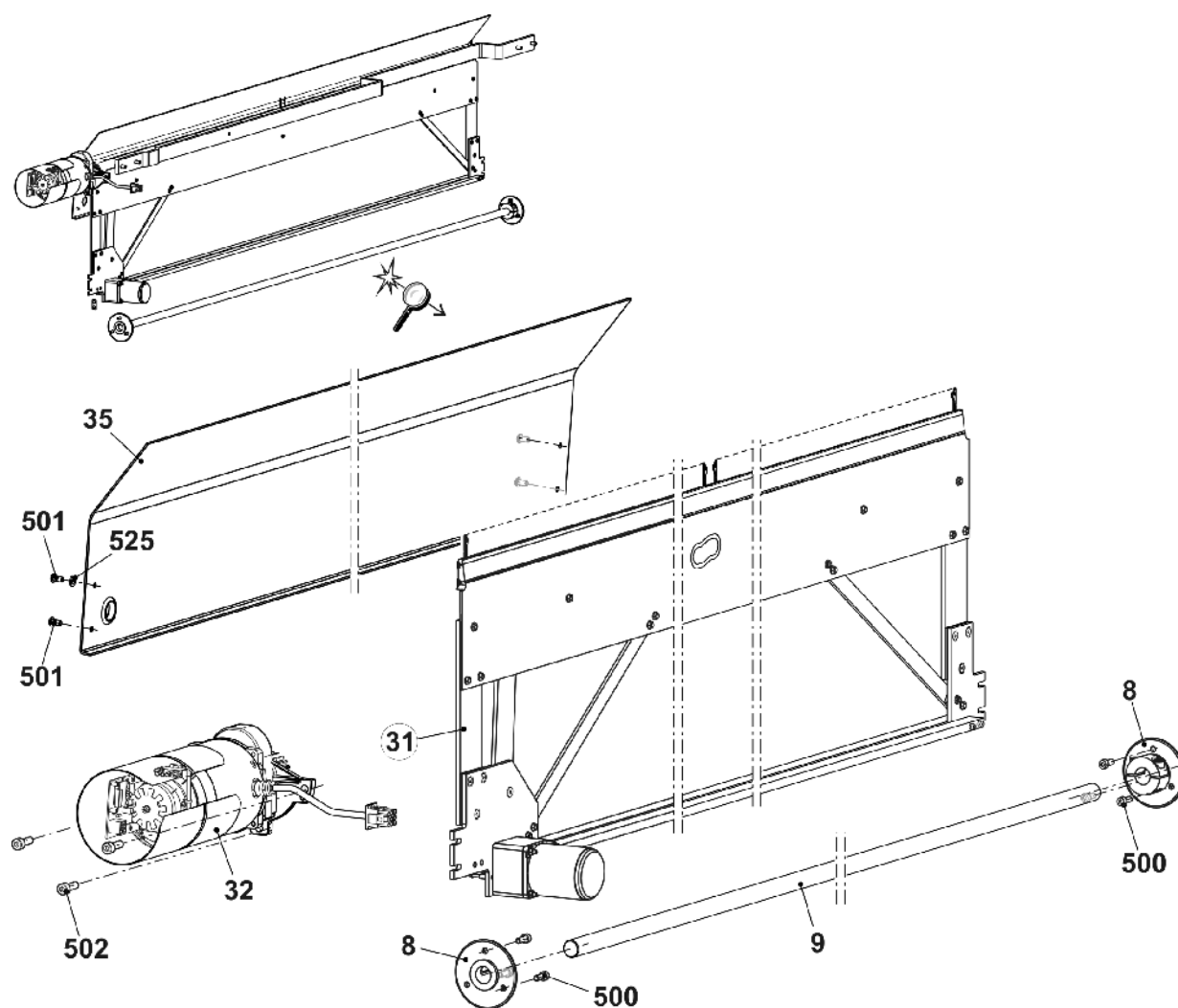
Σ R	Swivel lever on the right	252 858
1	Support	252 780
2	Shaft	238 339

Pos	Designation	Id. no.
3	Microswitch	026 259
4	Plunger	255 650
5	Swivel lever	239 248
6	Bolts	214 053
7	Angle	224 009
8	Angle	238 304
9	Eccentric bolt	255 651
500	Pan-head screw M5x10	023 247
501	Spring dowel sleeve 5x20	020 794
502	Dowel pin5x22	023 716
503	Spring dowel sleeve 5x12	020 793
504	Shoulder screwM5x29x35	251 618
505	Shoulder screw M5X5,8X6,2	023 365
506	Cap screw M4x8	022 501
507	Washer 10	020 884
508	Retaining ring10x1	020 950
509	Shoulder screwM5X12X18	020 539
510	Cap screw M3x16	022 583
511	Washer 3	020 877
513	Hexagon nut M8-6	020 838



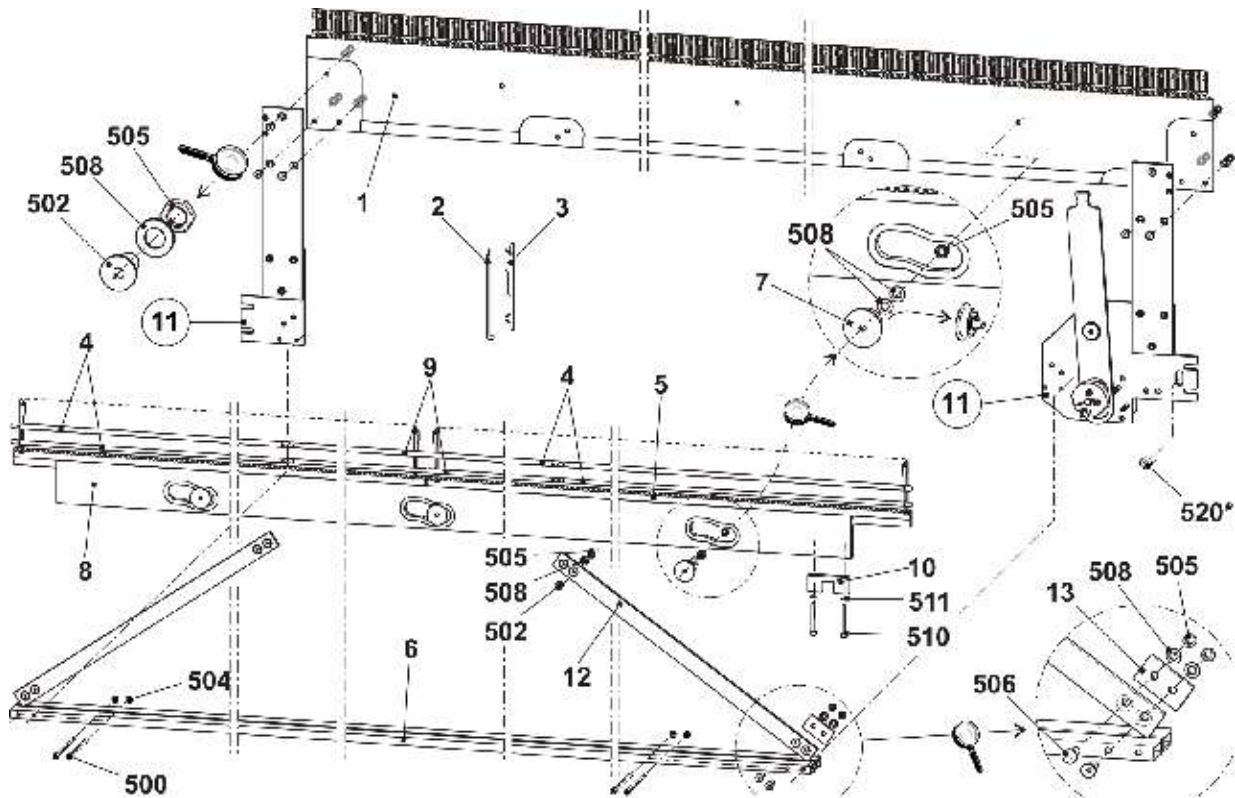
8.1.3 Comb take-down in the middle

Pos	Designation	ID	Pos	Designation	ID
Σ	Comb take-down in the middle E3,5.2	264 564	31	Comb unit E3,5.2	264 544
	Comb take-down in the middle E7.2	255 151		Comb unit E7.2	254 542
	Comb take-down in the middle E9.2	255 152		Comb unit E9.2	254 541
8	Flange	207 695	32	Motor take-down unit complete	253 803
9	Shaft long	254 539	35	Marking plate	254 540
500	Cap screw M6x16	020 135	502	Cap screw M8x25	020 142
501	Pan-head screw M5x10	023 247	525	Serrated lock washer J5,3	022 489



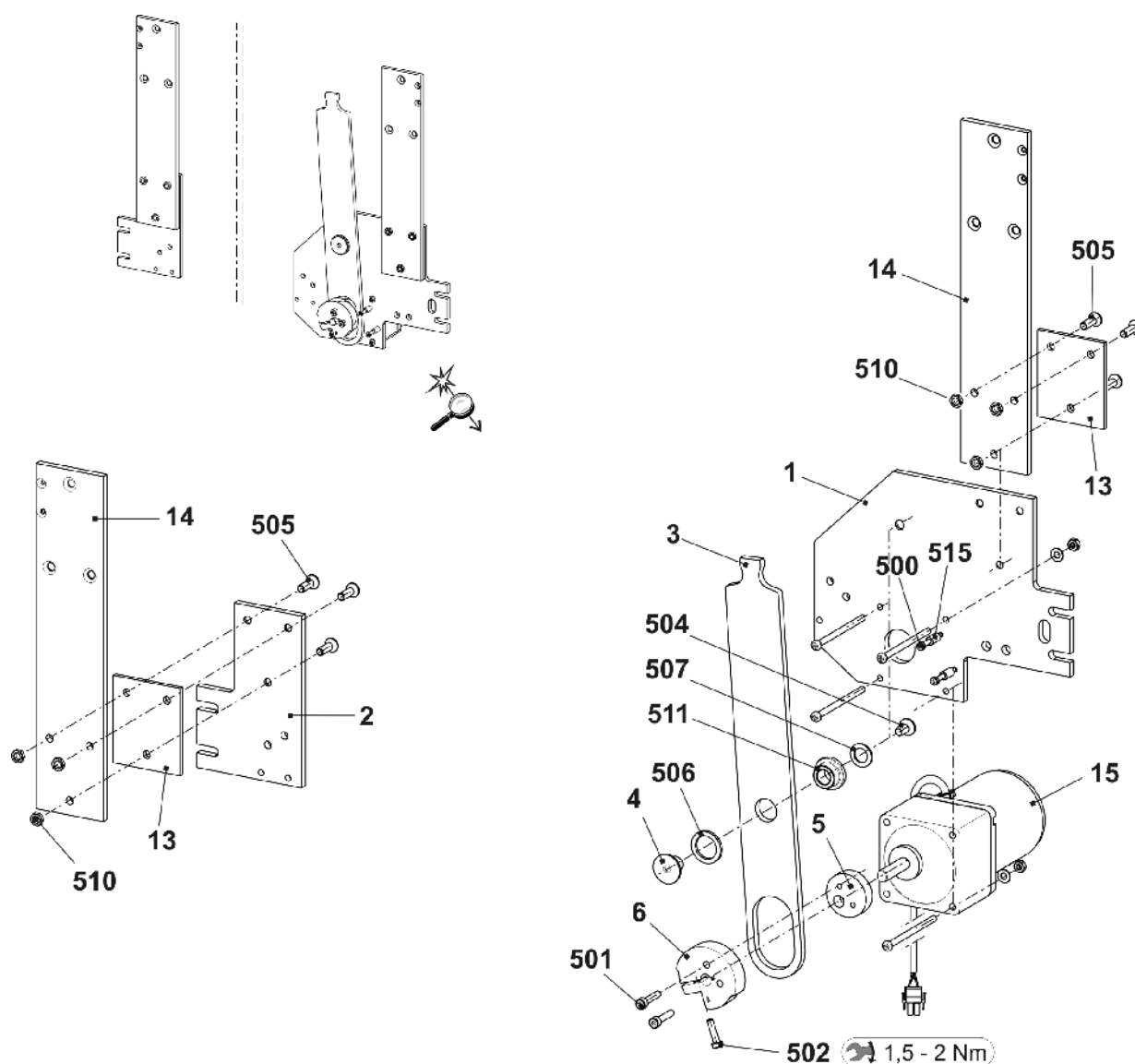
8.1.3.1 Comb unit

Pos	Designation	ID	Pos	Designation	ID
Σ	Comb unitE3,5.2	264 544	7	Collar bolt complete	211 036
	Comb unitE7.2	254 542	8	Cross slider	254 601
	Comb unitE9.2	254 541	9	Cover rail	254 820
1	Hook bedE3,5.2	264 529	10	Plunger	205 678
	Hook bedE7.2	254 563	11	Switching lever complete	235 690
	Hook bedE9.2	254 562	12	Intermediate plate	218 742
2	CloserE7.2 E3,5.2	232 771	13	Stabilizer	254 818
	CloserE9.2	240 619	500	Cap screw M4x50	023 102
3	BodyE7.2 E3,5.2	232 772	502	Countersunk head screw M5x12	023 340
	BodyE9.2	240 620	504	Hexagon nut M4-8	023 046
4	Cover rail	213 428	505	Hexagon nut M5-04	020 854
5	Hook sliderE3,5.2	264 530	508	Washer 5-200	020 871
	Hook sliderE7.2	254 668	510	Cap screw M4x30	023 290
	Hook sliderE9.2	254 666	511	Circlip	022 774
6	Strut	218 740	512	Countersunk screw M5x16	023 417

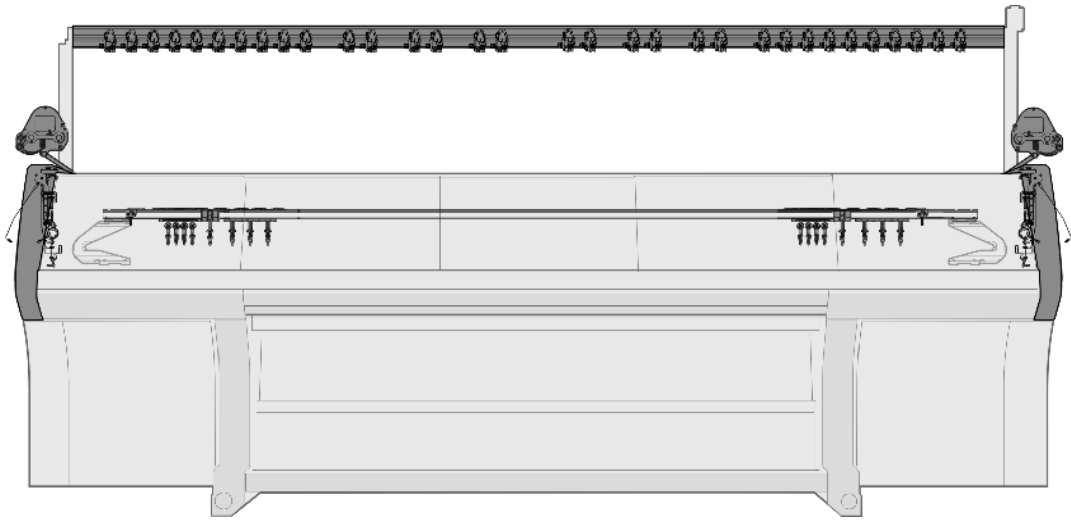


8.1.3.1.1 Switching lever comb take-down

Pos	Designation	ID	Pos	Designation	ID
Σ	Switching lever complete	235 690	500	Cap screw M3x25	023 093
1	Screw-on plate on the right	232 968	501	Cap screw M4x20	023 171
2	Screw-on plate on the left	240 059	502	Cap screw M4x16	023 123
3	Lever	215 228	504	Pan-head screw M6x12	023 435
4	Bearing bolt	215 675	505	Pan-head screw M5x16	023 417
5	Eccentric	205 681	506	Shim ring 16x22x2	023 449
6	Tension cam	215 287	507	Shim ring 10x16x1	023 260
13	Intermediate plate	213 980	510	Hexagon nut M5	020 854
14	Holding plate	218 977	511	Collar bearing 10x16x22	022 841
15	Motor comb hook with 2 phases	244 635	515	Threaded spacer	210 488

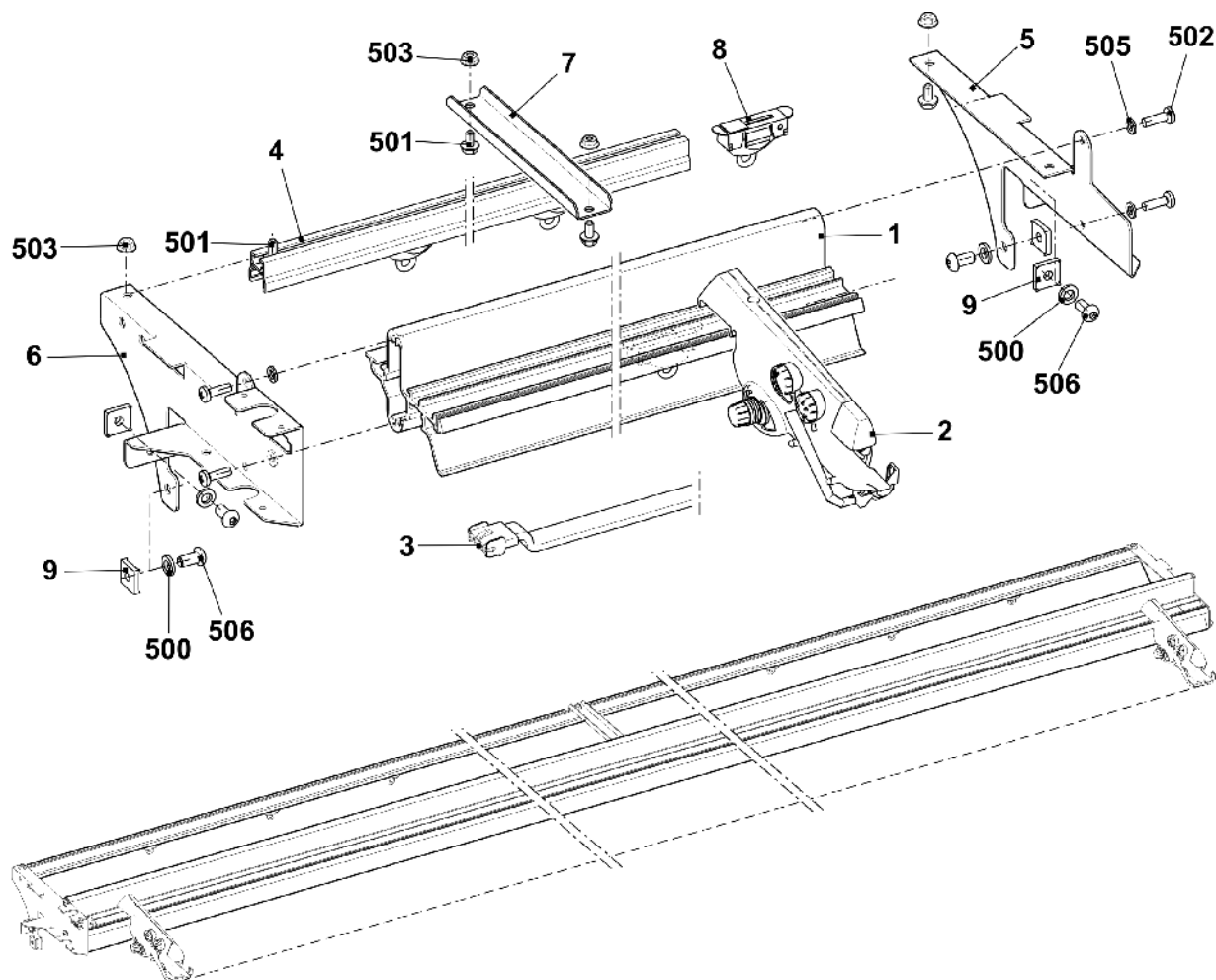


9 Yarn delivery device



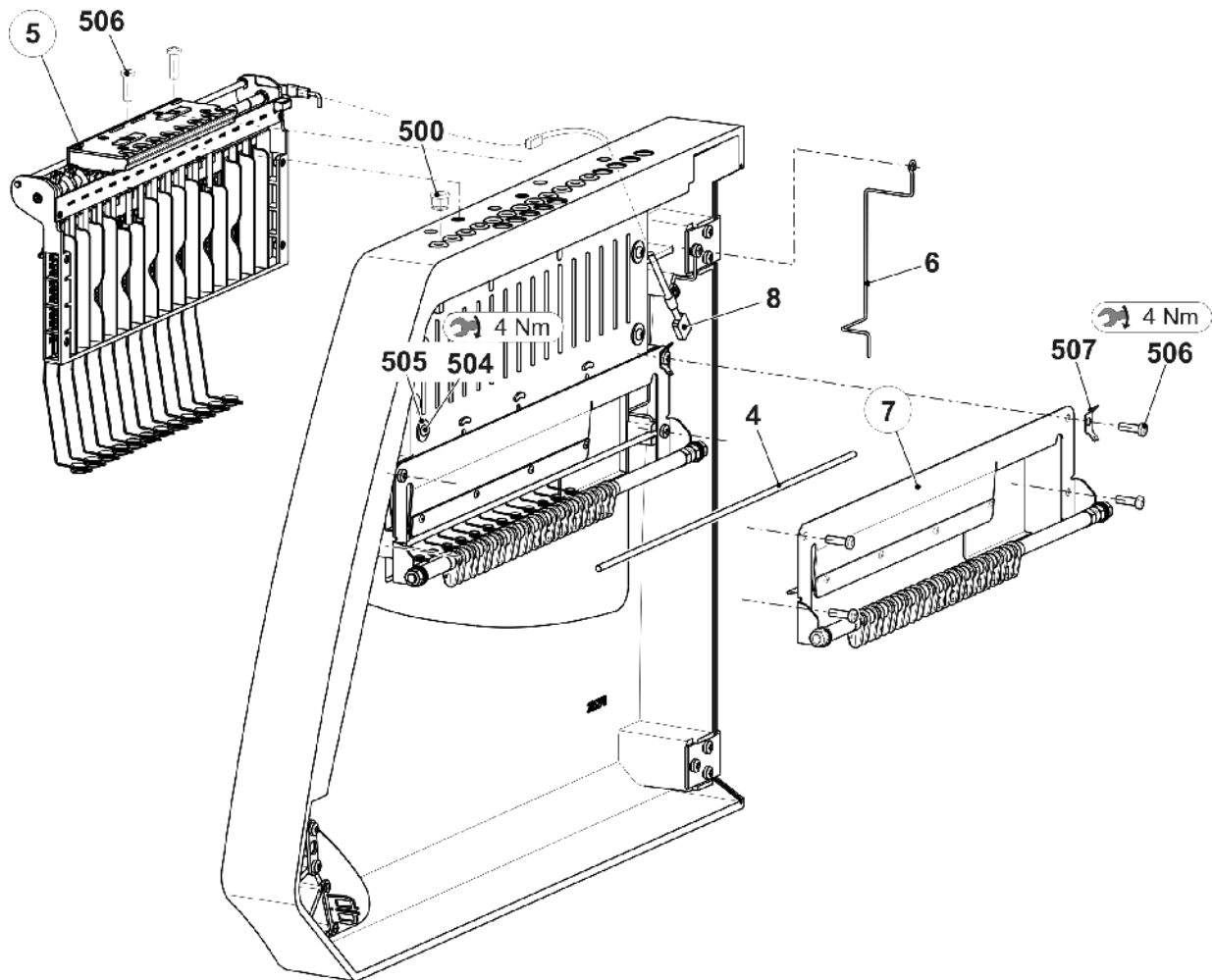
9.1 Yarn guide system with 20 FKE

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn guide device 20 FKE 84"	255 517	8	Yarn guide bracket complete	241 581
1	Support 84"	243 112	9	Slot nut	228 851
2	Yarn control device(FKE)	237 124	500	Serrated lock washer	023 388
3	Connection cable FKE-3 84"	240 349	501	Self-locking screw M6x12	023 415
4	Yarn guide bar	236 932	502	Screw M6x20	023 721
5	Support on the right	243 601	503	Serrated nut M6-10	023 414
6	Support on the left	243 600	505	Washer 6-200	022 431
7	Straps	243 792	506	Pan-head screw M8x16	023 113



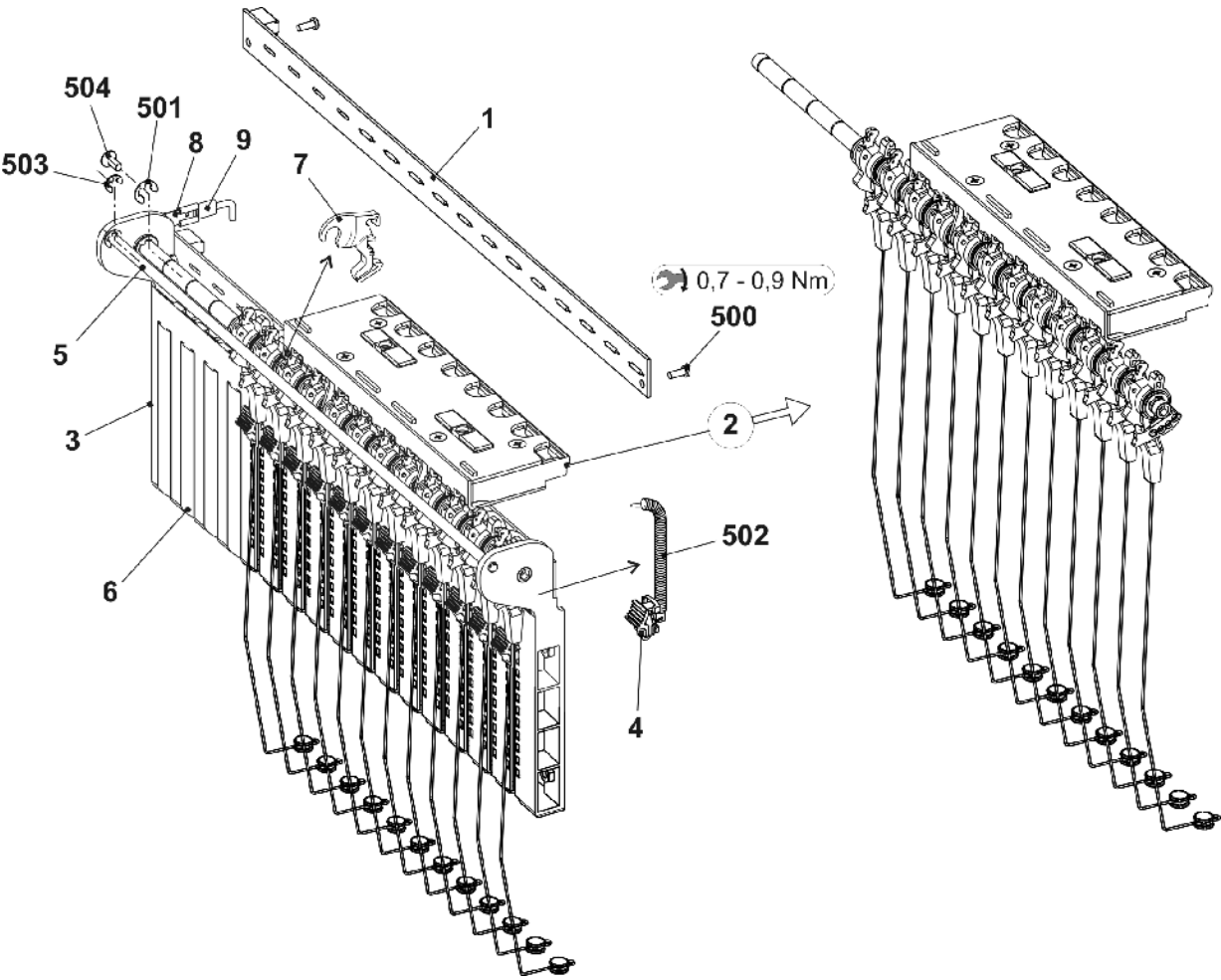
9.3 Left yarn guide E3,5.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Safety door on the left complete E5	265 328			
4	Shaft	241 318	500	Ceramic eyelet	240 640
5	Yarn tensioner on the left complete E3-5	241 363	504	Pan-head screw M5x16	265 377
6	Wire bow on the left	265 052	505	Washer 5,3x18x1,5	020 909
7	Yarn deflector on the left complete	265 285	506	Screw 6x20	265 379
8	Connection cable yarn tensionerokc	240 808	507	Flat connector 2x45° M6	243 117



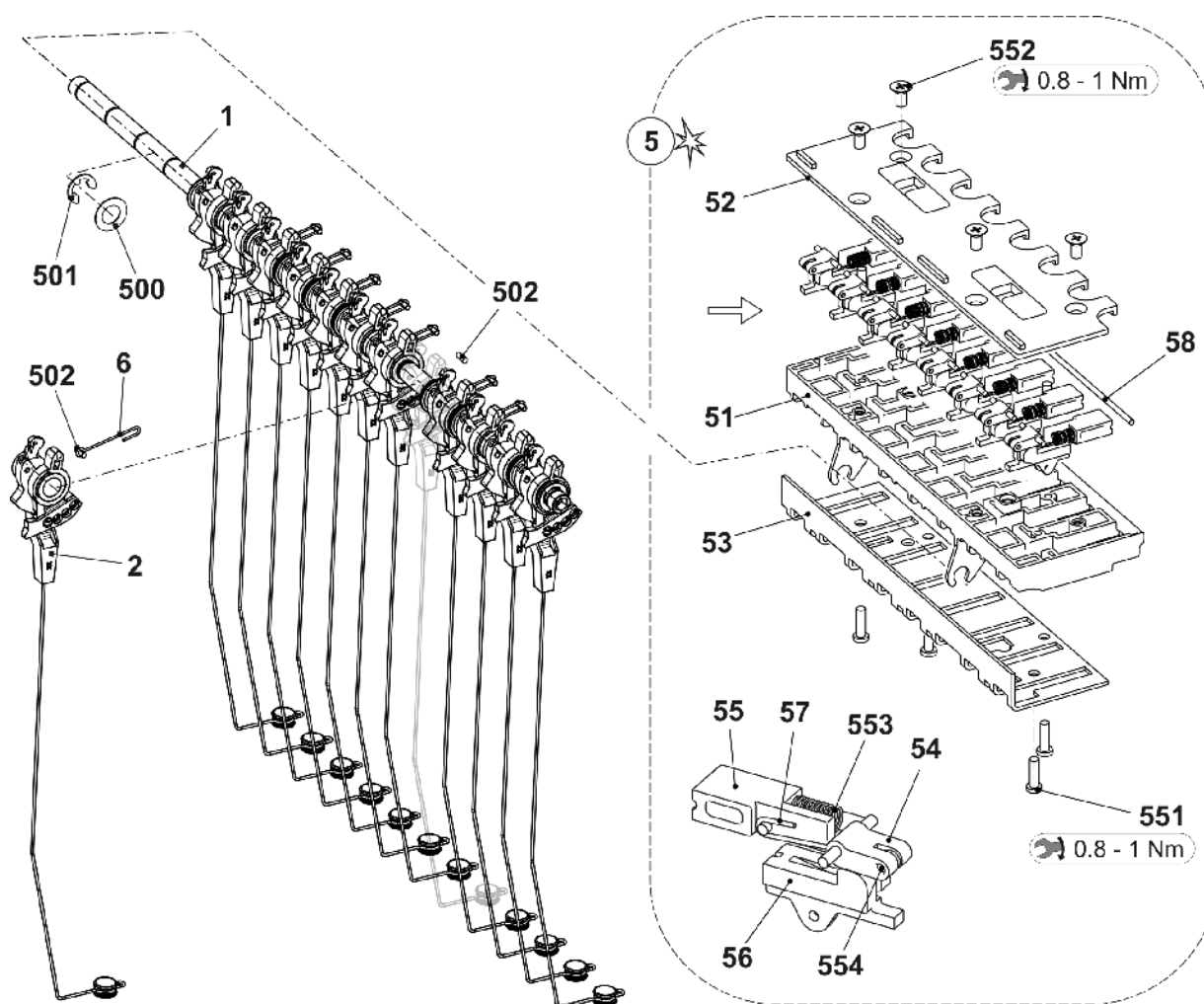
9.3.1 Left yarn tensioner E3,5.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn tensioner on the left complete E3-5	241 363			
1	Card yarn tensioner 16-fold on the left	241 345	8	Grounding plate of tension axle	243 121
2	Tension axle on the left complete E3-8	241 366	9	Ground cable yarn tensioner okc	243 105
3	Housing	241 367	500	Screw KB 30x8	236 228
4	Slider	241 694	501	Circlip	021 022
5	Stop point	241 368	502	Tension spring 5,05x0,55x53 E6.2	023 502
6	Border	242 268	503	Circlip	021 020
7	Spacer	242 048	504	Countersunk screw M4x10	241 914



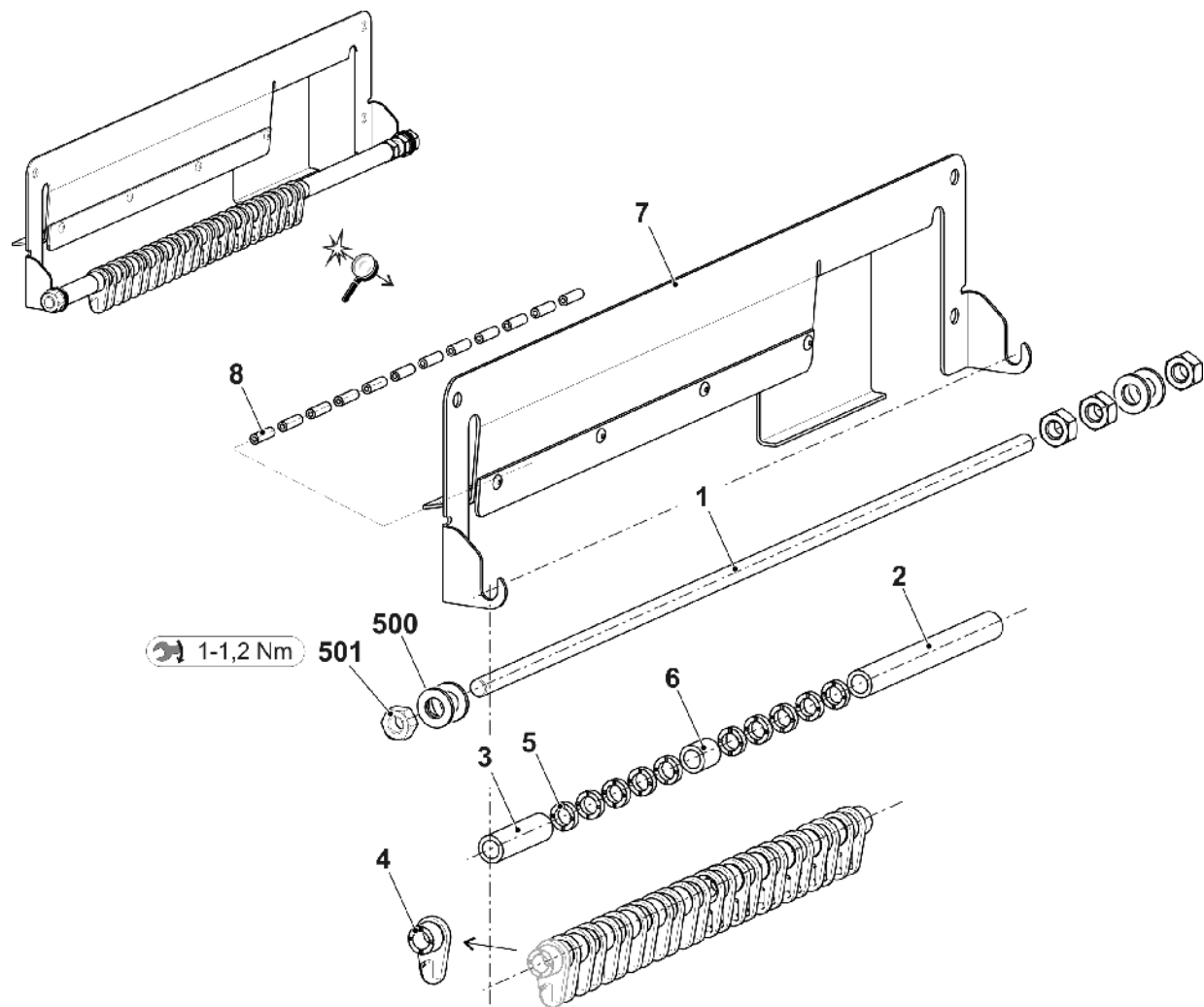
9.3.1.1 Left tension axle E3,5.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Tension axle on the left complete E3 – 8	241 366	53	Sheet metal at the bottom (housing AKF)	240 719
1	Axle	243 107	54	Lever AKF	238 692
2	Tension arm pre-assembled E3-8	259 448	55	Pressure piece AKF	238 690
6	Wire bow	238 694	56	SliderAKF	238 691
500	Shim ring 8x14x0,5	023 501	57	Wire bow	238 694
501	Circlip	021 022	58	Wire	237 940
502	Grooved pin 2x6	243 172	551	Screw KB 35x12	237 681
Σ 5	Thread clamp AKF	238 695	552	Screw KB 40x8	236 227
51	HousingAKF	238 689	553	Compression spring 0,30x4,50x18,50	241 437
52	Cover AKF	237 926	554	Grooved pin 2x6	243 172



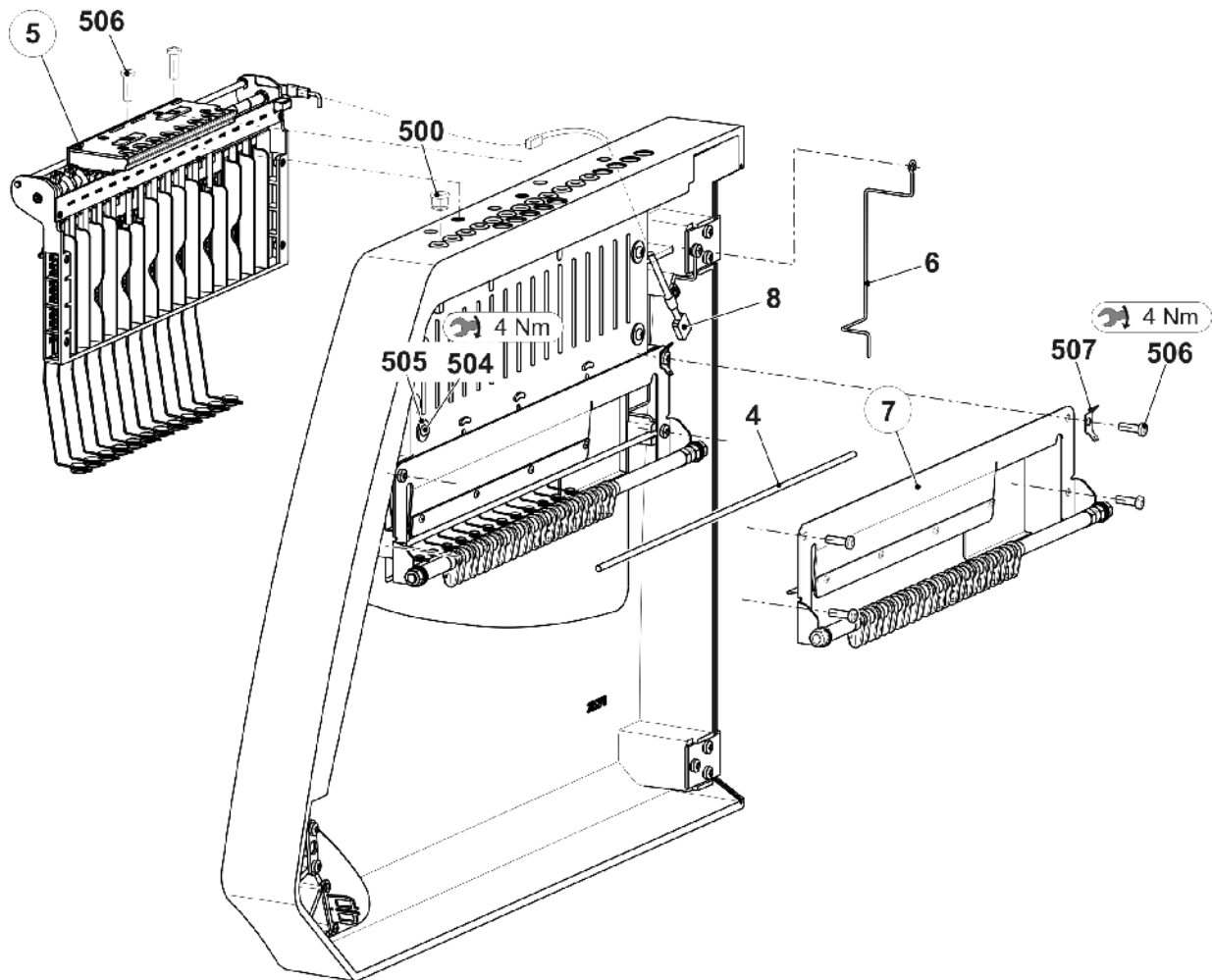
9.3.2 Yarn deflector on the left

Pos	Designation	ID	Pos	Designation	ID
Σ	Yarn deflector on the left complete	265 285	5	Distance bushing	262 445
1	Axle	265 284	6	Distance bushing	264 997
2	Threaded spacer	265 282	7	Stop plate left complete	265 276
3	Threaded spacer	265 283	500	Washer 8	022 854
4	Yarn Carriers MH10	262 391	501	Hexagon nut M8-6	261 011



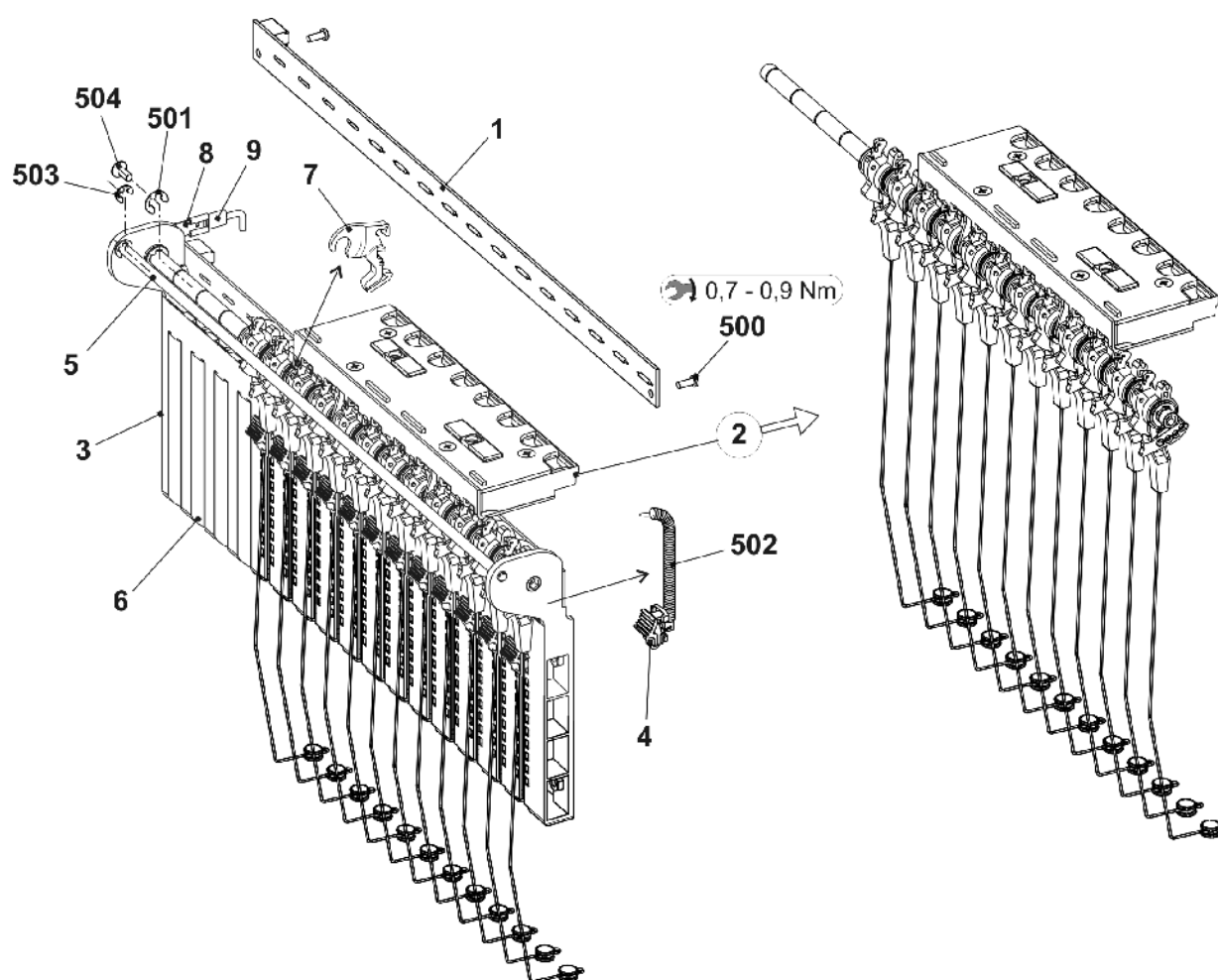
9.4 Yarn guide on the left E7.2 | E9.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Safety door on the left complete E10-18	265 330			
4	Shaft	241 318	500	Ceramic eyelet	240 640
5	Yarn tensioner on the left complete E10-18	241 365	504	Pan-head screw M5x16	265 377
6	Wire bow on the left	265 052	505	Washer 5,3x18x1,5	020 909
7	Yarn deflector on the left complete	265 285	506	Screw 6x20	265 379
8	Connection cable yarn tensionerokc	240 808	507	Flat connector 2x45° M6	243 117



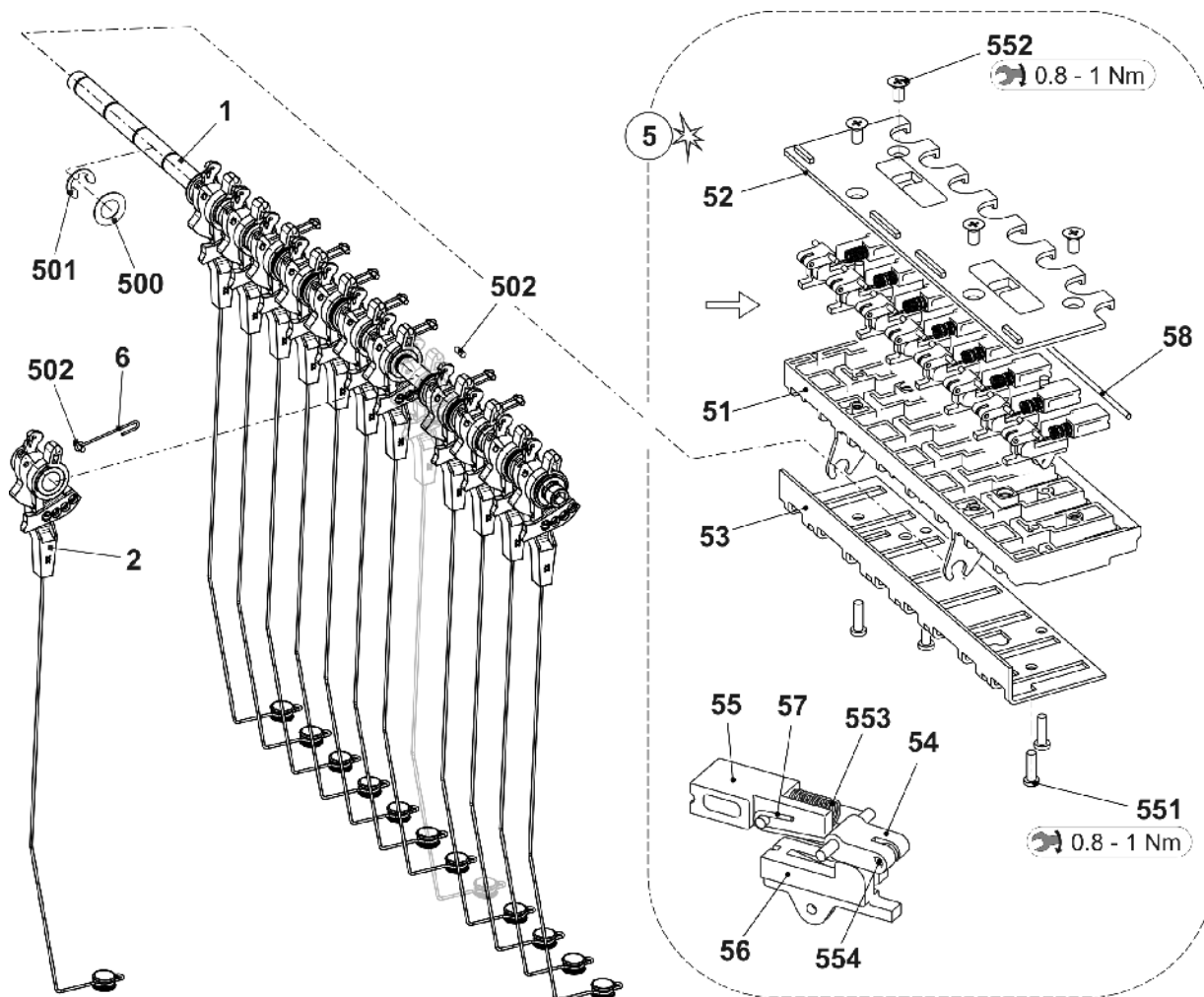
9.4.1 Left yarn tensioner E7.2 | E9.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Yarn tensioner on the left complete E10-18	241 365			
1	Card yarn tensioner 16-fold on the left	241 345	8	Grounding plate of tension axle	243 121
2	Tension axle on the left complete E10-18	241 381	9	Ground cable yarn tensioner okc	243 105
3	Housing	241 367	500	Screw KB 30x8	236 228
4	Slider	241 694	501	Circlip	021 022
5	Stop point	241 368	502	Tension spring 4,9x0,45x53	023 504
6	Border	242 268	503	Circlip	021 020
7	Spacer	242 048	504	Countersunk screw M4x10	241 914



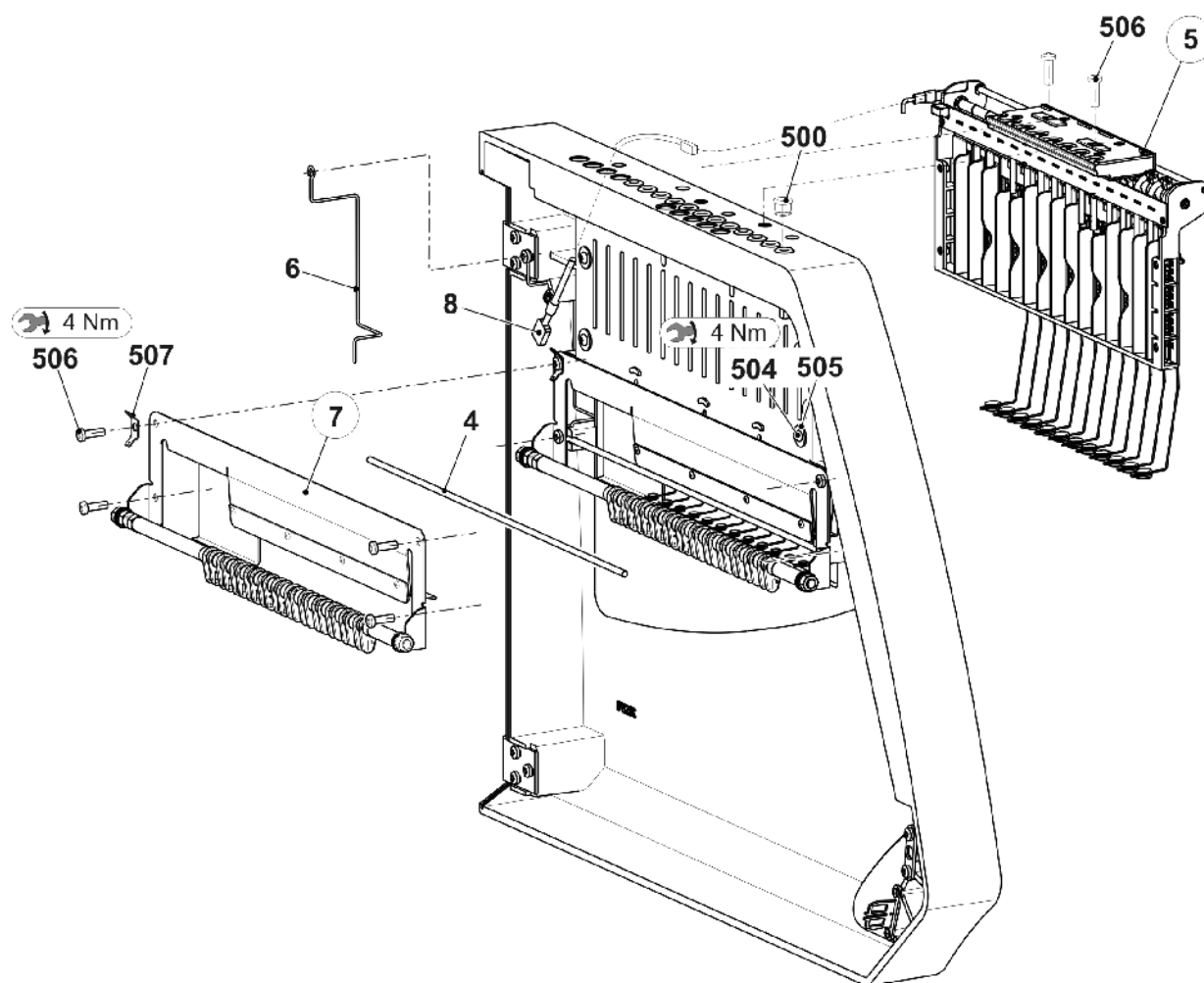
9.4.1.1 Left tension axle E7.2 | E9.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Tension axle on the left complete E10-18	241 381	53	Sheet metal at the bottom (housing AKF)	240 719
1	Axle	243 107	54	Lever AKF	238 692
2	Tension arm pre-assembled E10-18	258 459	55	Pressure piece AKF	238 690
6	Wire bow	238 694	56	Slider AKF	238 691
500	Shim ring 8x14x0,5	023 501	57	Wire bow	238 694
501	Circlip	021 022	58	Wire	237 940
502	Grooved pin 2x6	243 172	551	Screw KB 35x12	237 681
Σ 5	Thread clamp AKF	238 695	552	Screw KB 40x8	236 227
51	Housing AKF	238 689	553	Compression spring 0,30x4,50x18,50	241 437
52	Cover AKF	237 926	554	Grooved pin 2x6	243 172



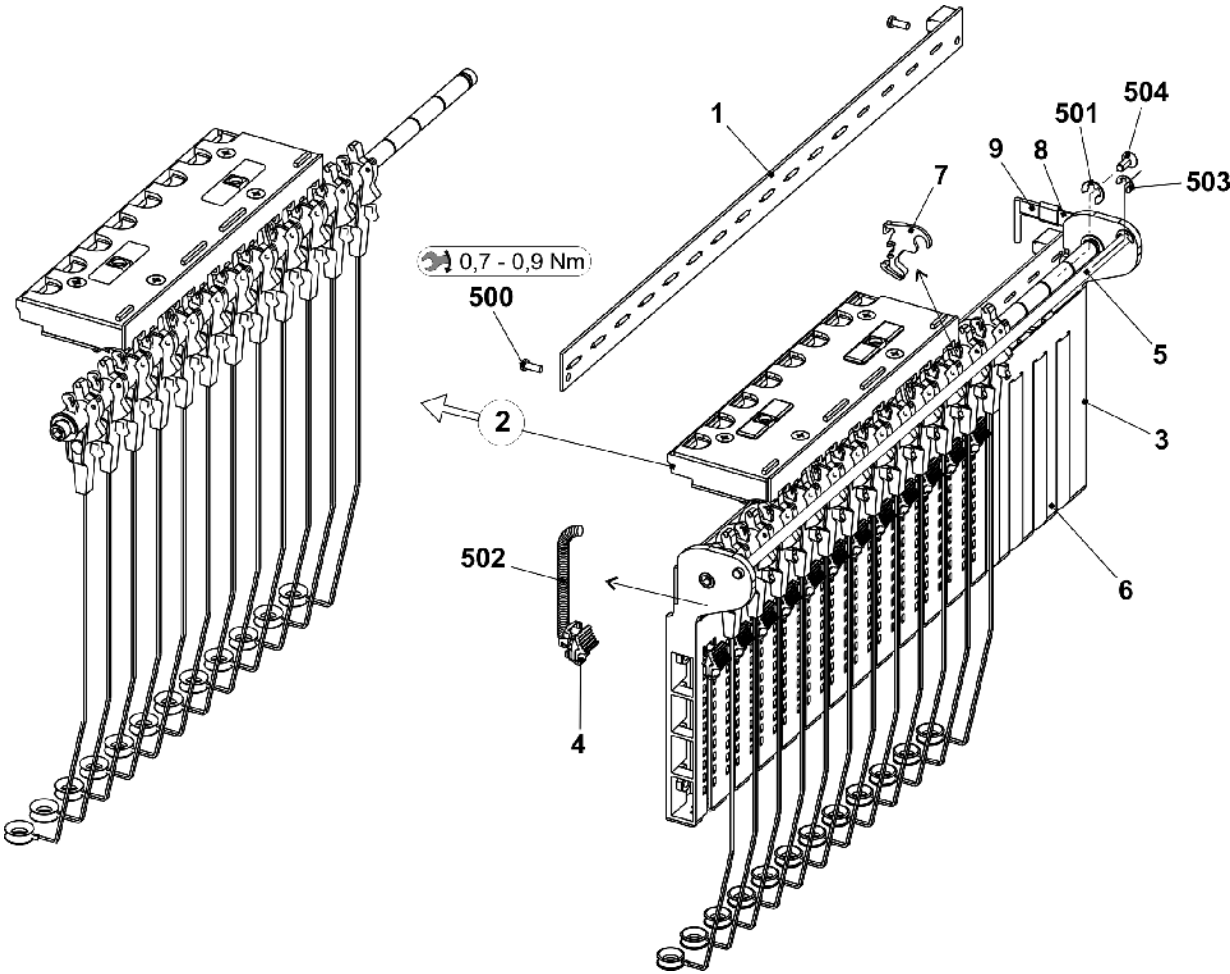
9.5 Right yarn guide E3,5.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Safety door on the right complete E5	265 331			
4	Shaft	241 318	500	Ceramic eyelet	240 640
5	Yarn tensioner on the right complete E3-5	241 382	504	Pan-head screw M5x16	265 377
6	Wire bow on the right	265 053	505	Washer 5,3x18x1,5	020 909
7	Yarn deflector on the right complete	265 356	506	Screw 6x20	265 379
8	Connection cable yarn tensionerokc	240 808	507	Flat connector 2x45° M6	243 117



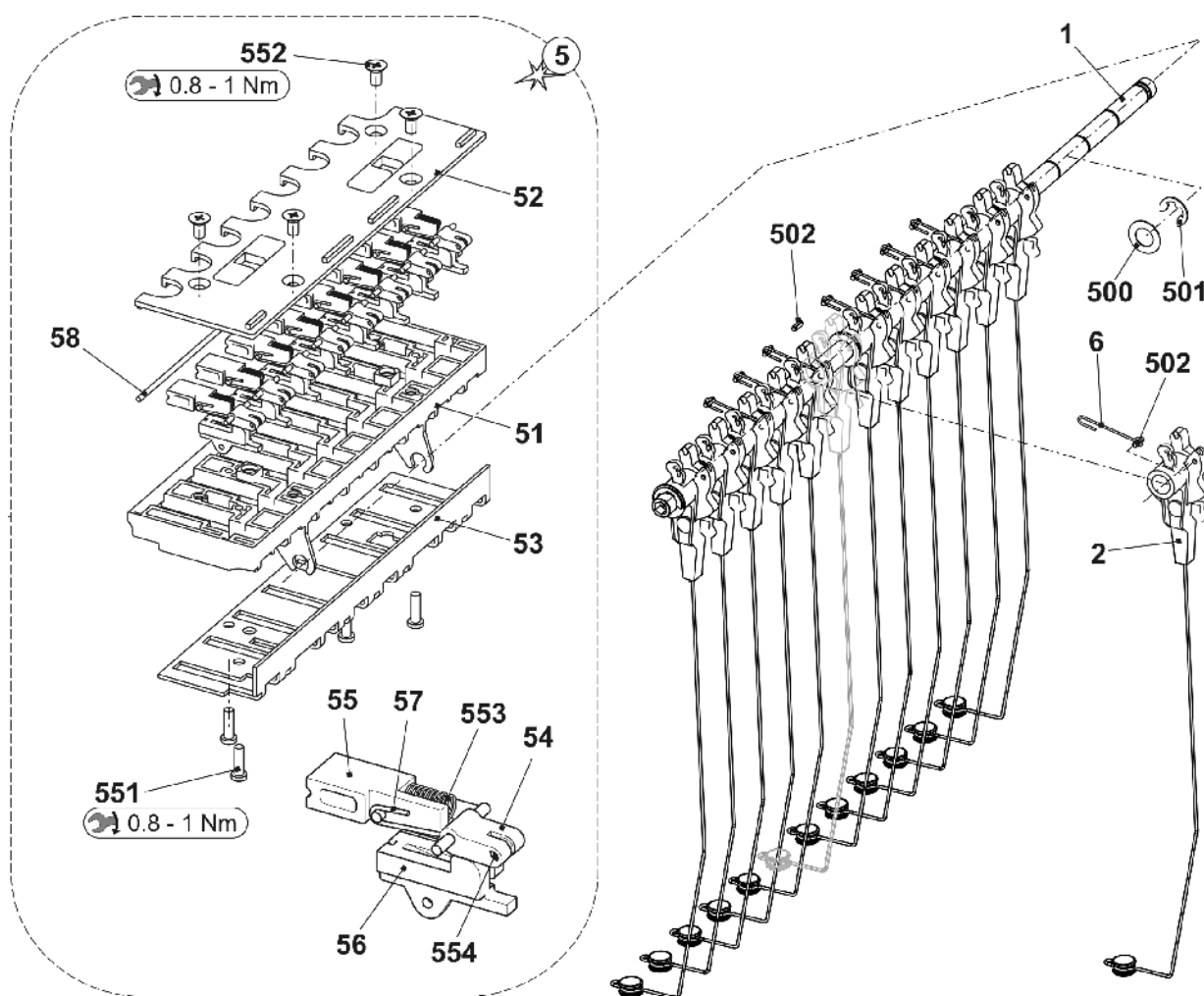
9.5.1
Right yarn tensioners E3,5.2

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ	Yarn tensioner on the right complete E3-5	241 382			
1	Card yarn tensioner 16-fold on the right	241 346	8	Grounding plate of tension axle	243 121
2	Tension axle on the right completeE3-8	241 379	9	Ground cable yarn tensioner okc	243 105
3	Housing	241 367	500	Screw KB 30x8	236 228
4	Slider	241 694	501	Circlip	021 022
5	Stop point	241 368	502	Tension spring 5,05x0,55x53	023 502
6	Border	242 268	503	Circlip	021 020
7	Spacer	242 048	504	Countersunk screw M4x10	241 914



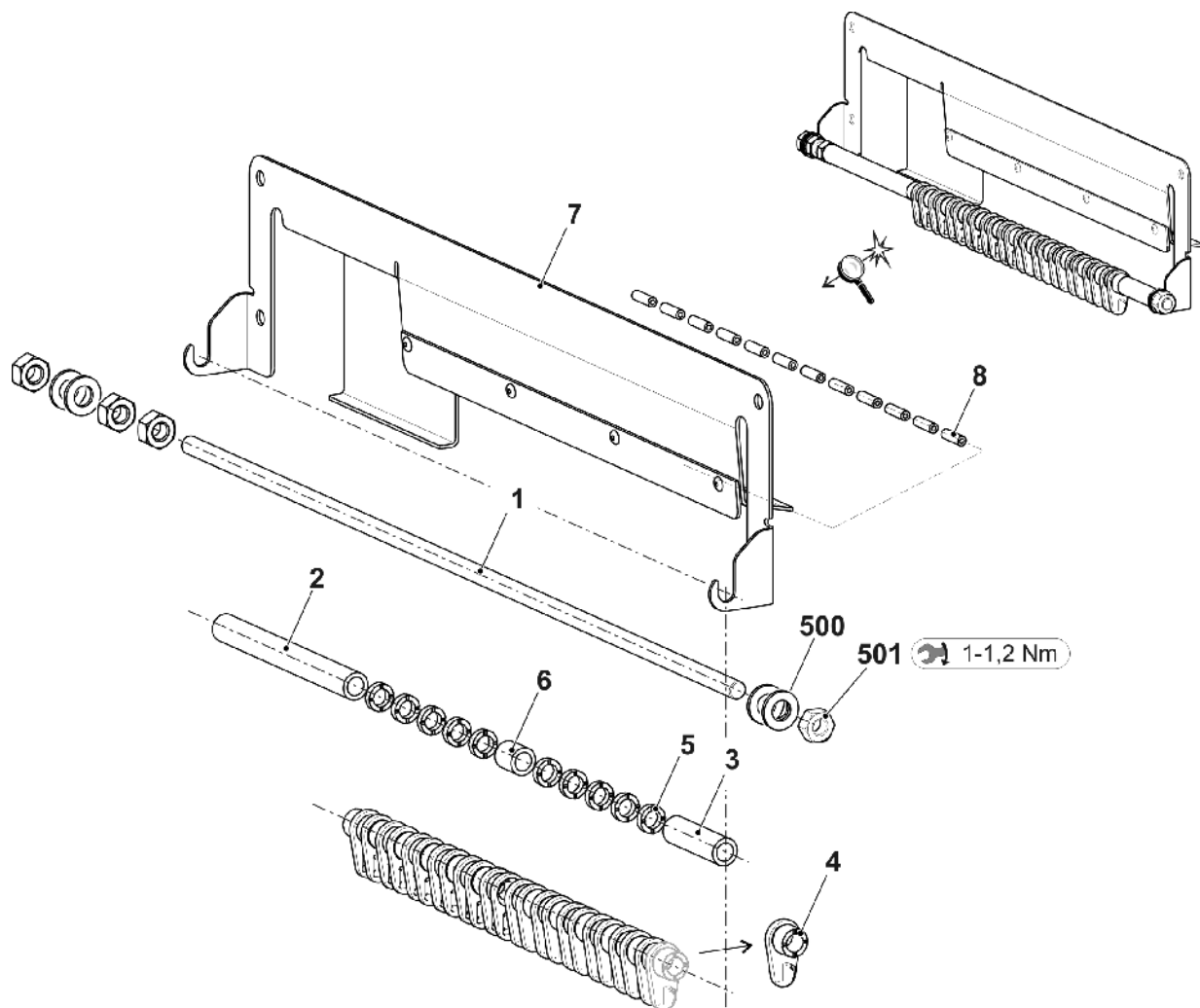
9.5.1.1 Right tension axle E3,5.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Tension axle on the right complete E3-8	241 379	53	Sheet metal at the bottom (housing AKF)	240 719
1	Axle	243 107	54	Lever AKF	238 692
2	Tension arm pre-assembled E3-8	259 448	55	Pressure piece AKF	238 690
6	Wire bow	238 694	56	SliderAKF	238 691
500	Shim ring 8x14x0,5	023 501	57	Wire bow	238 694
501	Circlip	021 022	58	Wire	237 940
502	Grooved pin 2x6	243 172	551	Screw KB 35x12	237 681
Σ 5	Thread clamp AKF	238 695	552	Screw KB 40x8	236 227
51	HousingAKF	238 689	553	Compression spring 0,30x4,50x18,50	241 437
52	Cover AKF	237 926	554	Grooved pin 2x6	243 172



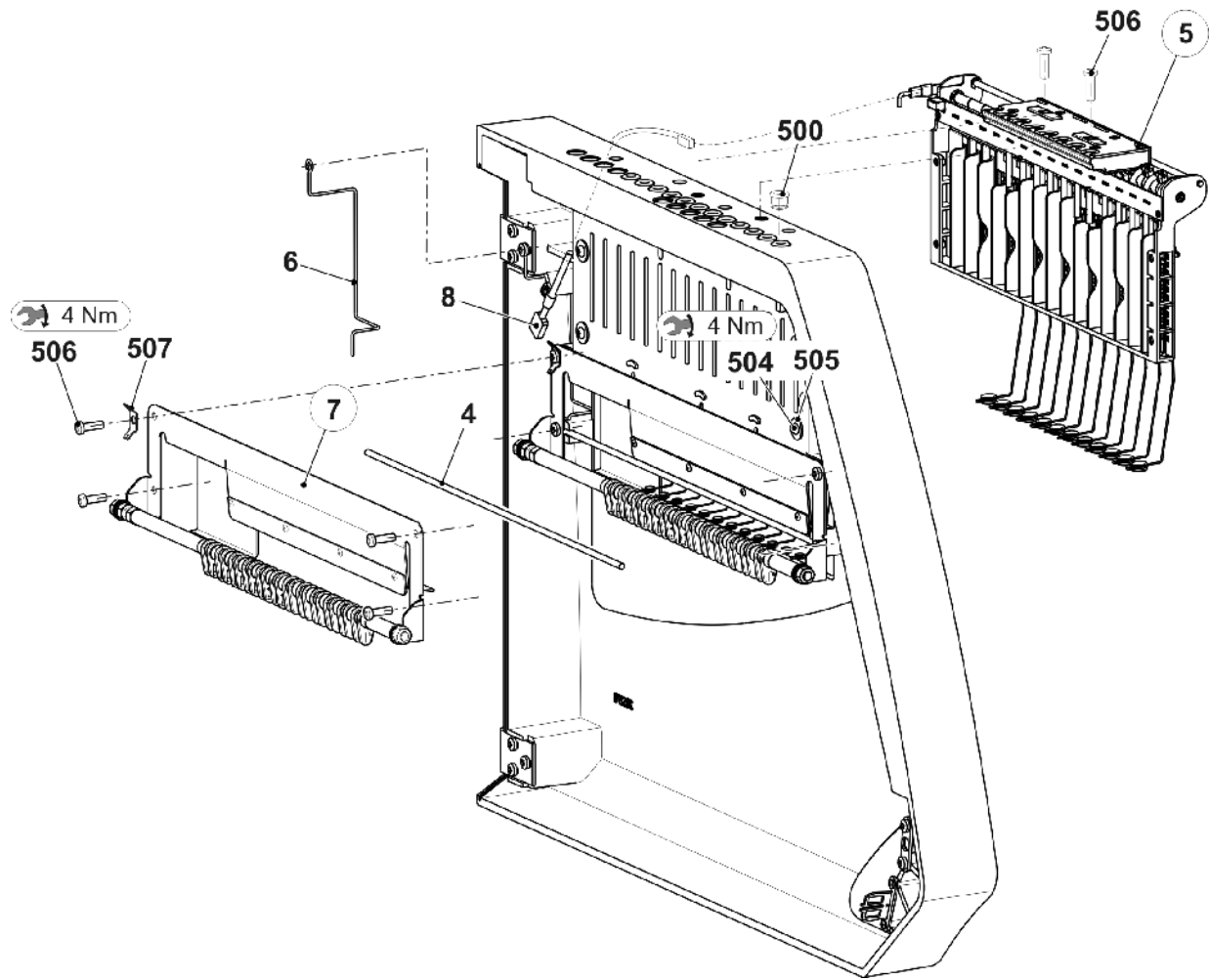
9.5.2 Yarn deflector on the right complete

Pos	Designation	ID	Pos	Designation	ID
Σ	Yarn deflector on the right complete	265 356			
1	Axle	265 284	6	Distance bushing	264 997
2	Threaded spacer	265 282	7	Stop plate right complete	265 277
3	Threaded spacer	265 283	8	Stop sleeve	266 433
4	Yarn Carriers MH10	262 391	500	Washer 8	022 854
5	Distance bushing	262 445	501	Hexagon nut M8-6	261 011



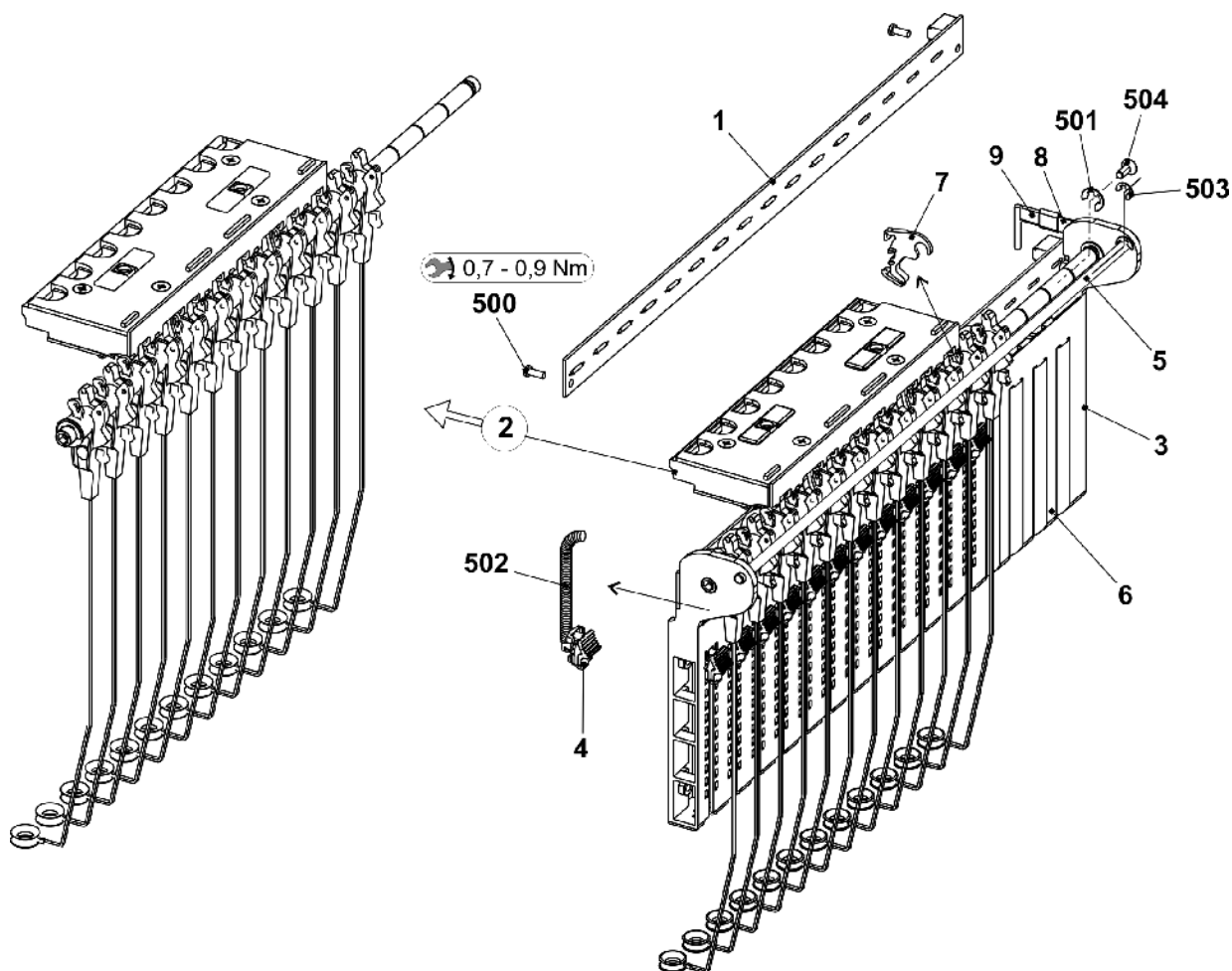
9.6 Right yarn guide E7.2 | E9.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Safety door on the right complete E10-18	265 333			
4	Shaft	241 318	500	Ceramic eyelet	240 640
5	Yarn tensioner on the right complete E10-18	241 384	504	Pan-head screw M5x16	265 377
6	Wire bow on the right	265 053	505	Washer 5,3x18x1,5	020 909
7	Yarn deflector on the right complete	265 356	506	Screw 6x20	265 379
8	Connection cable yarn tensionerokc	240 808	507	Flat connector 2x45° M6	243 117



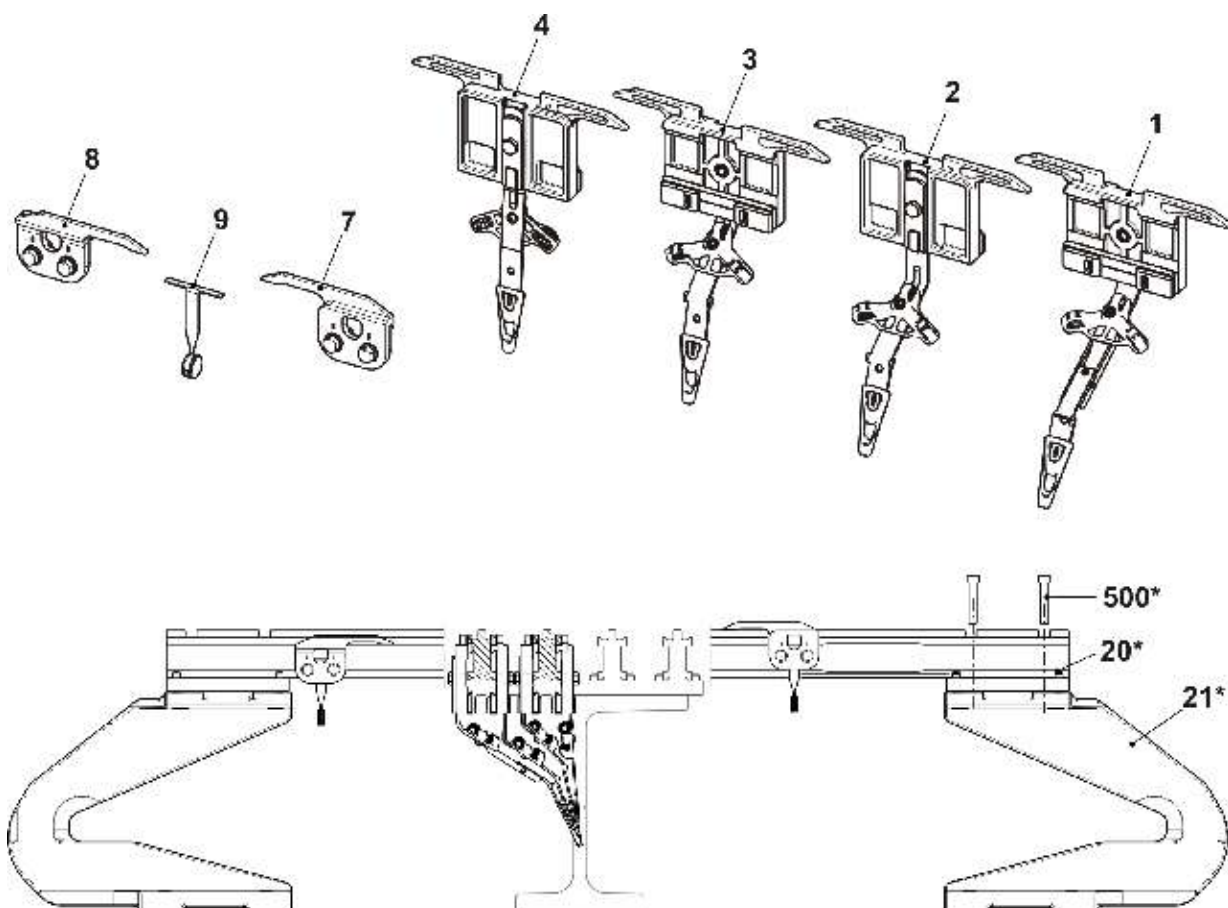
9.6.1 Right yarn tensioners E7.2 | E9.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn tensioner on the right complete E10-18	241 384			
1	Card yarn tensioner 16-fold on the right	241 346	8	Grounding plate of tension axle	243 121
2	Tension axle on the right complete E10-18	241 380	9	Ground cable yarn tensioner okc	243 105
3	Housing	241 367	500	Screw KB 30x8	236 228
4	Slider	241 694	501	Circlip	021 022
5	Stop point	241 368	502	Tension spring 4,9x0,45x53	023 504
6	Border	242 268	503	Circlip	021 020
7	Spacer	242 048	504	Countersunk screw M4x10	241 914



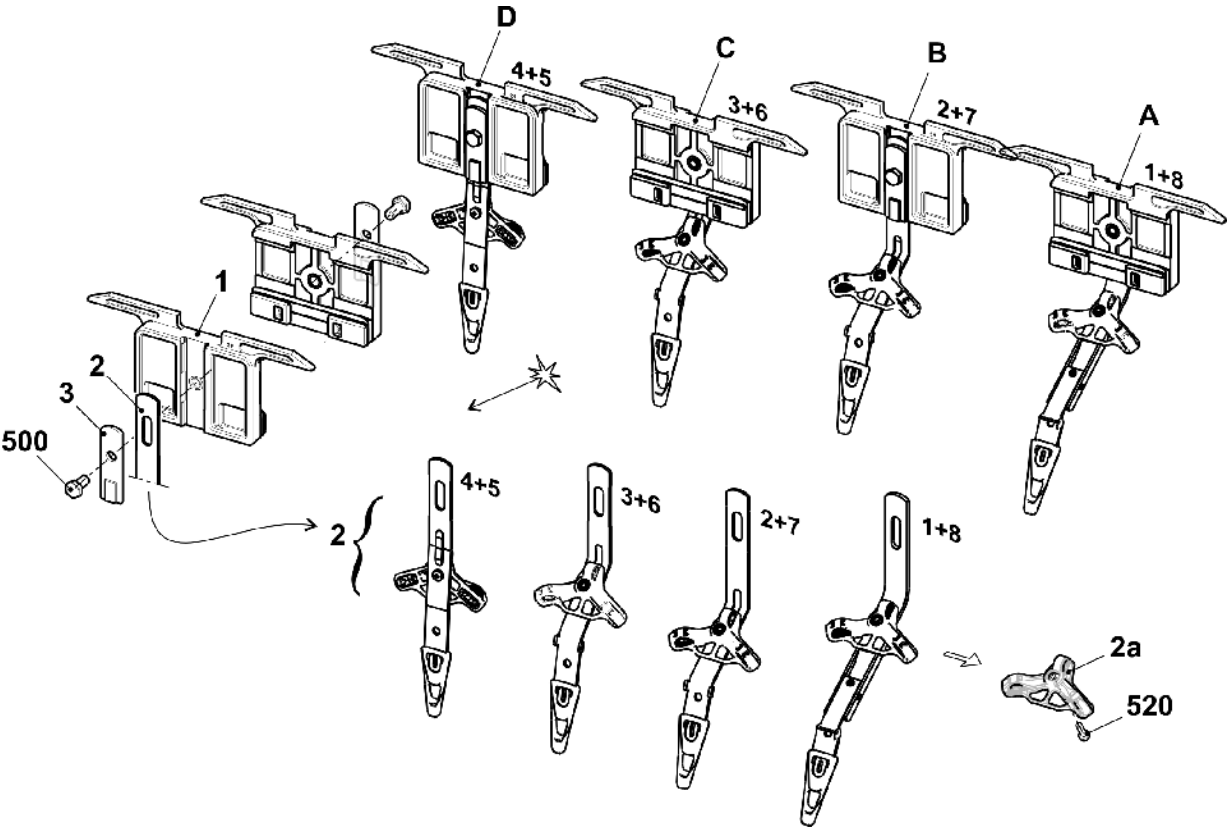
9.7 Yarn carriers and yarn carrier rails

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn guide complete E3,5.2	256 542	4	FF carriage 4+5 complete (E7.2 + E9.2)	256 556
	Yarn guide complete E7.2 E9.2	256 544		FF carriage 4+5 complete (E3,5.2)	256 548
1	FF carriage 1+8 complete (E7.2 + E9.2)	256 553	7	Limiter on the right complete	244 098
	FF carriage 1+8 complete (E3,5.2)	256 545	8	Limiter on the left complete	244 099
2	FF carriage 2+7 complete (E7.2 + E9.2)	256 554	9	Slider with eyelet	230 709
	FF carriage 2+7 complete (E3,5.2)	256 546	20*	Yarn carrier rail	255 467
3	FF carriage 3+6 complete (E7.2 + E9.2)	256 555	21*	FF support	253 674
	FF carriage 3+6 complete (E3,5.2)	256 547	500*	Cap screw M6x35	020 139



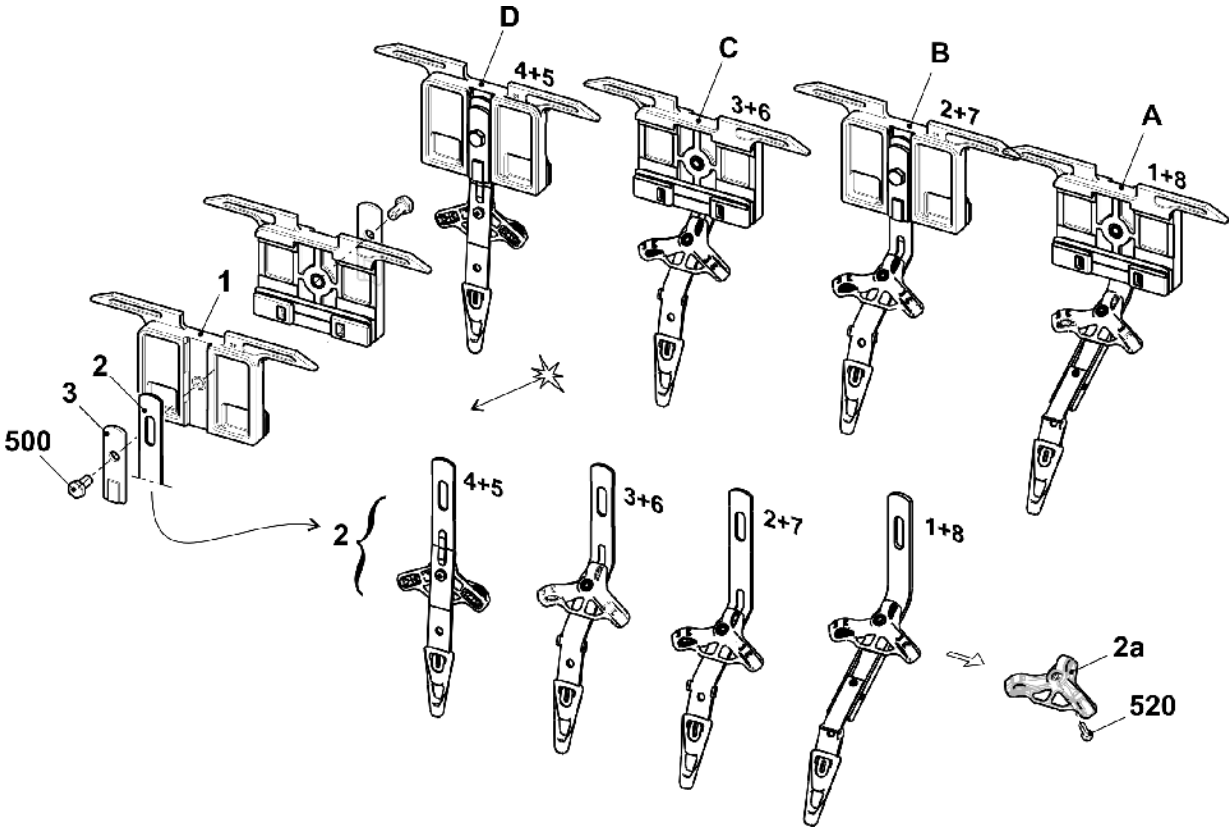
9.8 Carriage of yarn carrier E3,5.2

Pos	Designation	Id	Pos	Designation	Id	
A	FF carriage 1+8 complete E5.2 X30S	256 545	2	FF bow 1+8 complete E5	240 542	
B	FF carriage 2+7 complete E5.2 X30S	256 546		FF bow complete 2+7E5	240 543	
C	FF carriage 3+6 complete E5.2 X30S	256 547		FF bow complete 3+6E5-14	240 544	
D	FF carriage 4+5 complete E5.2 X30S	256 548		FF bow complete 4+5E5	240 545	
1	FF carriage complete	256 069		2a	Yarn guide star	242 013
3	Shim	213 035		520	Pan-head screw M3x10	023 032
500	Hexagon screw M5x10	020 351				



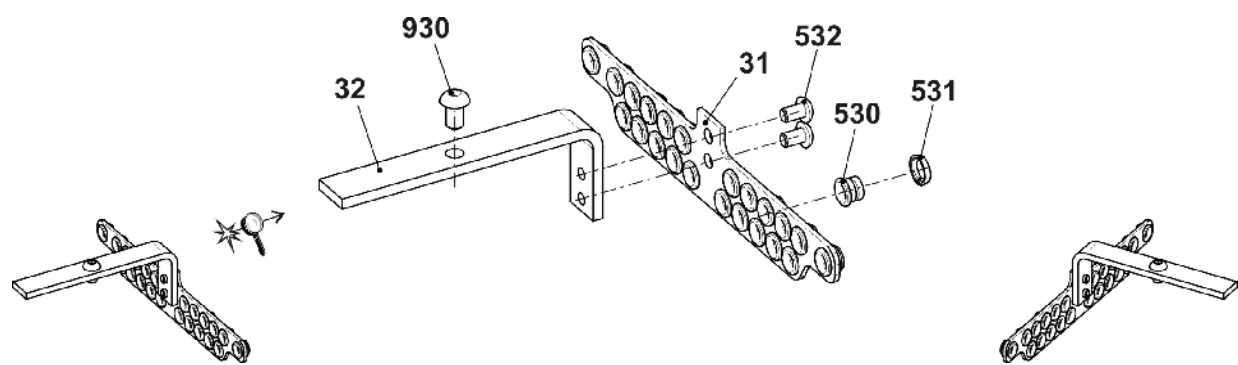
9.9 Carriage of yarn carrier E7.2 | E9.

Pos	Designation	Id	Pos	Designation	Id
A	FF carriage 1+8 complete E7.2 X30S	256 553	2	FF bow 1+8 complete E10-14	240 354
B	FF carriage 2+7 complete E7.2 X30S	256 554		FF bow complete 2+7E10-14	240 330
C	FF carriage 3+6 complete E7.2 X30S	256 555		FF bow complete 3+6E10-14	240 331
D	FF carriage 4+5 complete E7.2 X30S	256 556		FF bow complete 4+5E10-14	240 332
1	FF carriage complete	256 069		2a	Yarn guide star
3	Shim	213 035	520	Pan-head screw M3x10	023 032
500	Hexagon screw M5x10	020 351			



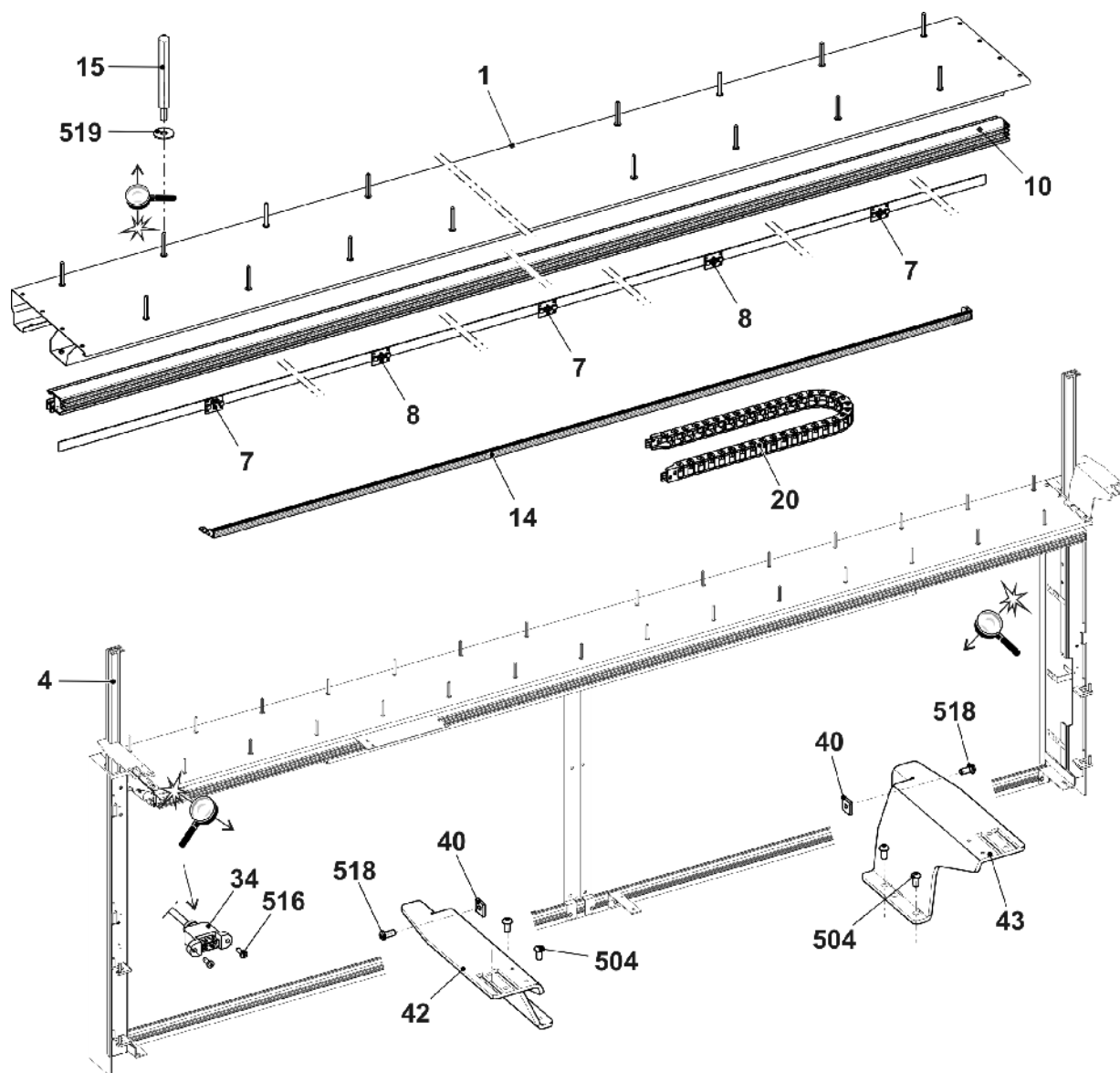
9.10 Yarn guide bracket

Pos	Designation	ID	Pos	Designation	ID
Σ	Yarn guide bracket complete	264 782			
31	Eyelet holder complete	264 781	531	Clamping ring	259 606
32	Holding angle	259 574	532	Pan-head screw M5x8	239 408
530	Eyelet 4,2	021 502	930	Pan-head screw M6x10	023 183



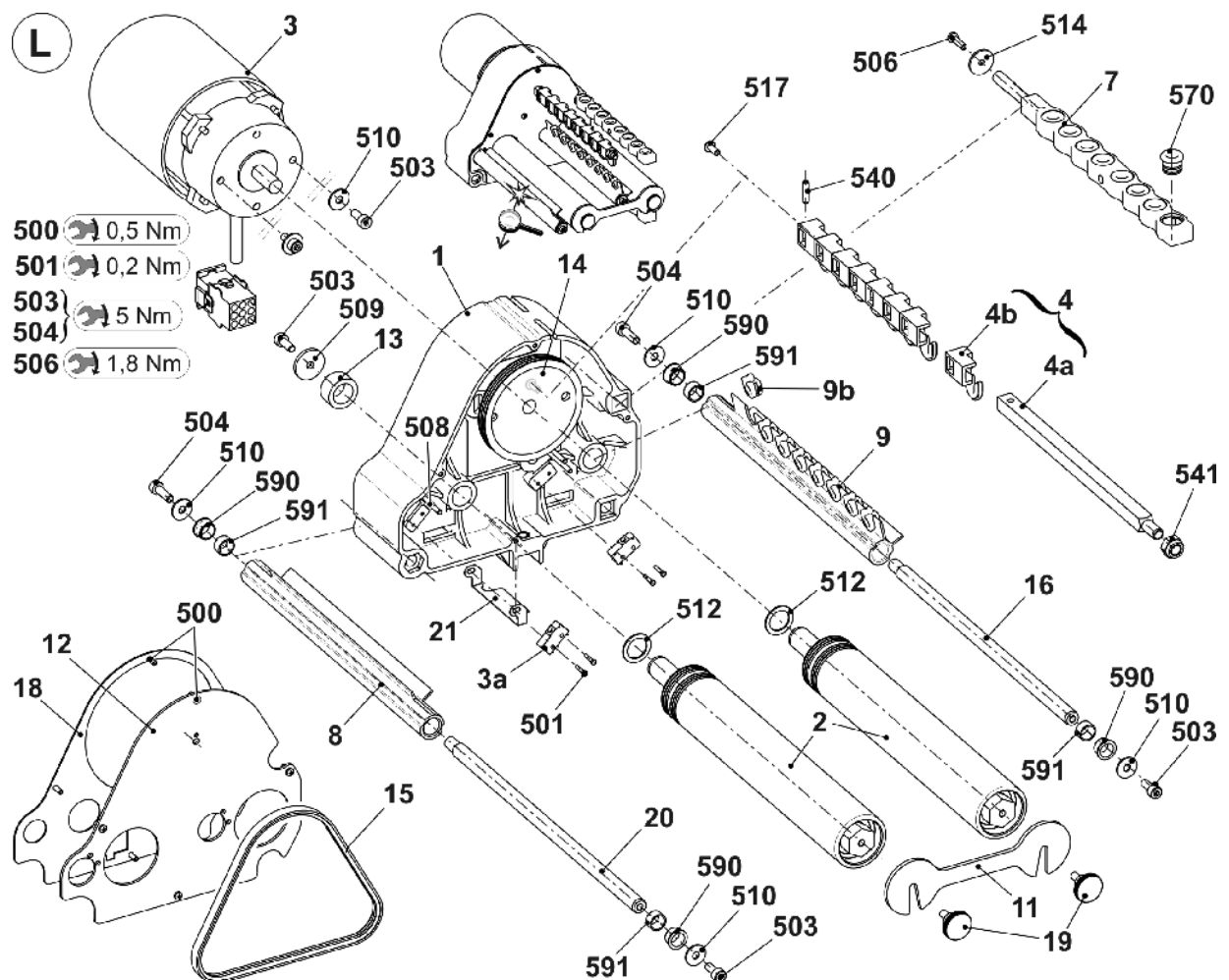
9.11 Bobbin board

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ	Table complete 84"	240 681			
1	Table	251 246	34	Cable USB extension 84 okc	243 070
4	Support element	228 594	40	Slot nut	228 851
7	Magnet switch safety door	219 983	42	Support of left feed wheel	264 453
8	Magnet switch safety door	220 159	43	Support of right feed wheel	264 454
10	Guide rail at the top complete	264 894	504	Pan head screw M8x16	023 113
14	Lamp LED complete	264 767	516	Pan head screw M3x8	023 251
15	Positioning pin	204 819	518	Pan head screw M8x18	251 331
20	Energy chain display 38 links	253 888	519	Washer	020 901



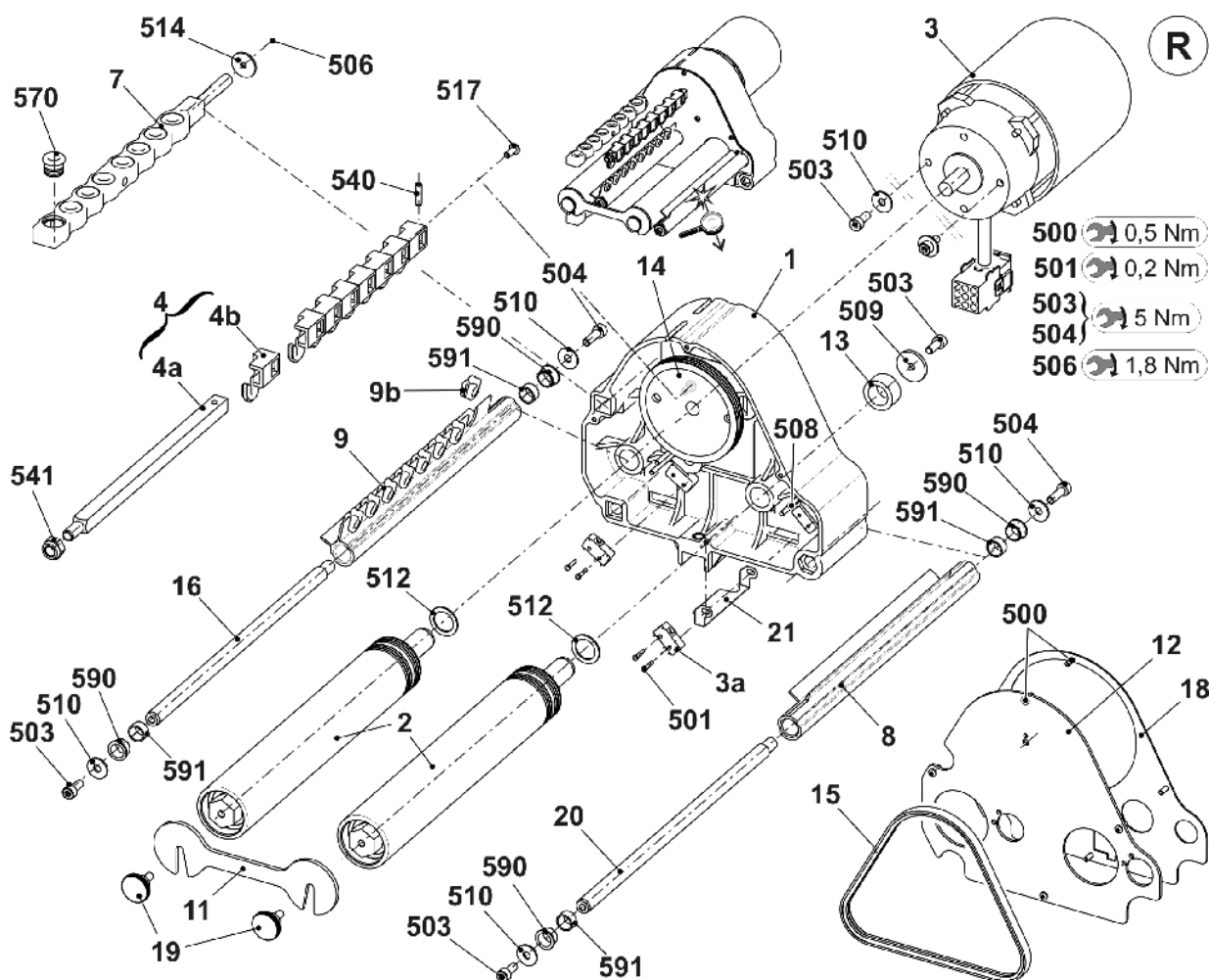
9.12 Left friction feed wheel

Pos	Designation	Id	Pos	Designation	Id
Σ	Friction feed wheel on the left	264 324	13	Bush	221 391
1	Housing	240 368	14	V-ribbed belt pulley	221 268
2	Friction roller complete	231 704	15	Ribbed V-belt V3J 406	206 927
3	Three-phase AC motor complete	219 800	16	Rod	221 319
3a	Microswitch	008 664	18	Cover	230 758
4	Deflector complete 8-fold	250 089	19	Knurled screw	223 361
4a	Support rail	250 055	20	Rod	230 658
4b	Eyelet holder complete	250 077	21	Grounding plate	256 622
540	Spring dowel sleeve 4x16	020 783	500	Screw KB30x8	236 228
541	Hexagon nut M8-8	022 843	501	Screw 20x10	265 445
7	Yarn guide rod complete	239 431	503	Cap screw M5x12	020 132
570	Eyelet 8	021 504	504	Cap screw M5x16	022 726
8	Stop motion rail on the right complete	230 690	506	Screw KB 40x14	241 358
9	Stop motion rail on the left complete with eyelets	230 683	508	Dowel pin3M6x40	023 528
9b	Eyelet	230 662	509	Washer 5,3x22x2,5	023 219
590	Slide bearing	023 627	510	Washer 5	020 901
591	Guide piece	259 453	512	Shim ring 15x21x1	023 216
11	Bracket	221 316	514	Washer 4,3x18x1,5	020 908
12	Cover	251 098	517	Pan-head screw M4x8	023 579



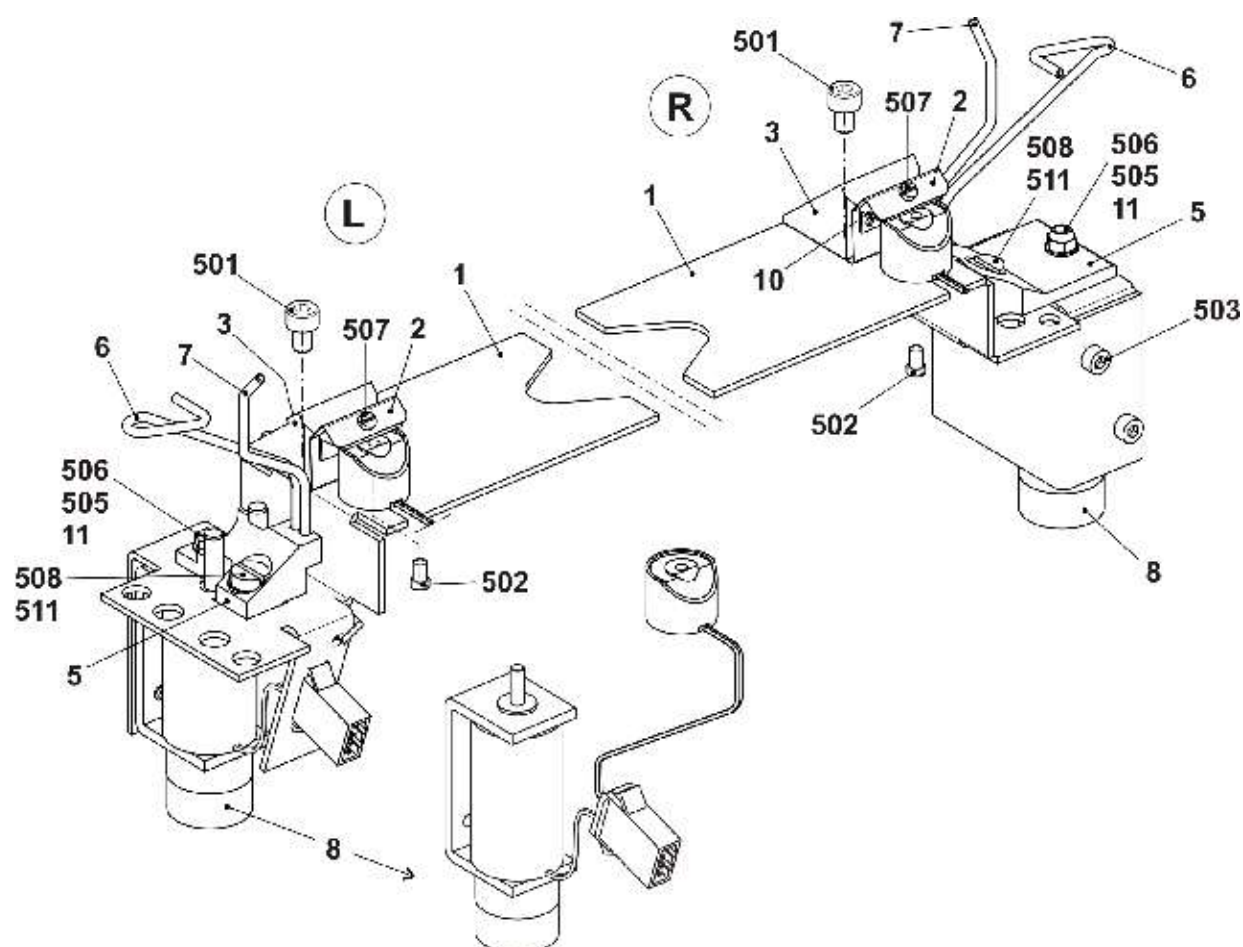
9.13 Right friction feed wheel

Pos	Designation	Id	Pos	Designation	Id
Σ	Friction feed wheel on the right	264 325	13	Bush	221 391
1	Housing	240 368	14	V-ribbed belt pulley	221 268
2	Friction roller complete	231 704	15	Ribbed V-belt V3J 406	206 927
3	Three-phase AC motor complete	219 800	16	Rod	221 319
3a	Microswitch	008 664	18	Cover	230 758
4	Deflector complete 8-fold	250 089	19	Knurled screw	223 361
4a	Support rail	250 055	20	Rod	230 658
4b	Eyelet holder complete	250 077	21	Grounding plate	256 622
540	Spring dowel sleeve 4x16	020 783	500	Screw KB30x8	236 228
541	Hexagon nut M8-8	022 843	501	Screw 20x10	265 445
7	Yarn guide rod complete	239 431	503	Cap screw M5x12	020 132
570	Eyelet 8	021 504	504	Cap screw M5x16	022 726
8	Stop motion rail on the right complete	230 690	506	Screw KB 40x14	241 358
9	Stop motion rail on the right complete with eyelets	230 682	508	Dowel pin3M6x40	023 528
9b	Eyelet	230 662	509	Washer 5,3x22x2,5	023 219
590	Slide bearing	023 627	510	Washer 5	020 901
591	Guide piece	259 453	512	Shim ring 15x21x1	023 216
11	Bracket	221 316	514	Washer 4,3x18x1,5	020 908
12	Cover	251 098	517	Pan-head screw M4x8	023 579

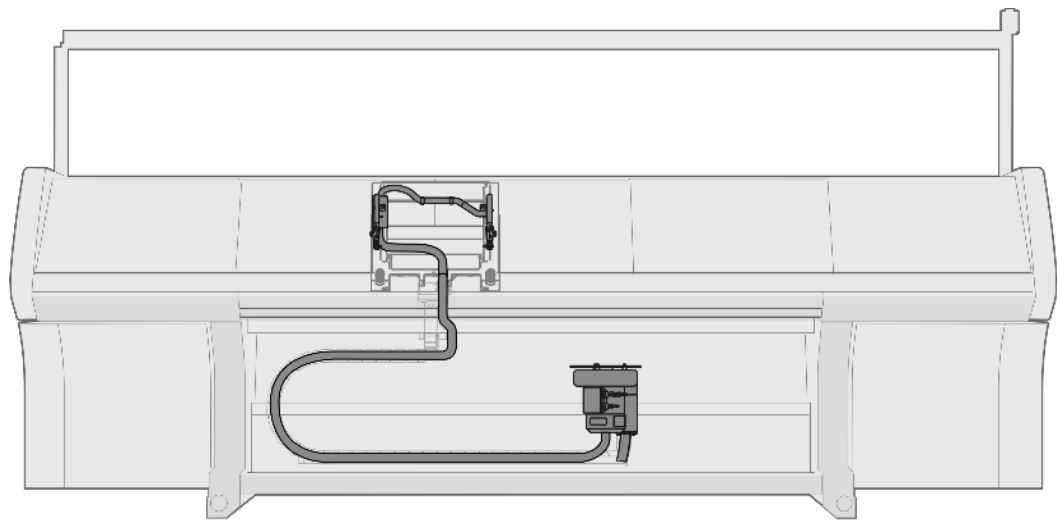


9.14 Thread clamp

Pos	Designation	Id	Pos	Designation	Id
Σ (L)	Yarn guide system on the left complete	236 115			
Σ (R)	Yarn guide system on the right complete	236 116	8(R)	Magnet system on the right	241 886
1(L)	Cover on the left	235 817	10	Wedge	236 292
1(R)	Cover on the right	235 391	11	Distance bushing	236 544
2	Leaf spring	236 276	501	Cap screw M4x6	023 067
3	Clamping piece	235 616	502	Cap screw M3x6	023 671
5(L)	Holding piece on the left	235 803	503	Cap screw M3x5	023 496
5(R)	Holding piece on the right	235 711	505	Washer 3	022 806
6(L)	Yarn guide bow on the left	235 515	506	Hexagon nut M3	020 831
6(R)	Yarn guide bow on the right	245 211	507	Cap screw M2x4	023 624
7	Yarn guide bow at the rear	235 530	508	Cap screw M4x8	020 122
8(L)	Magnet system on the left	241 890	511	Washer 4	022 481

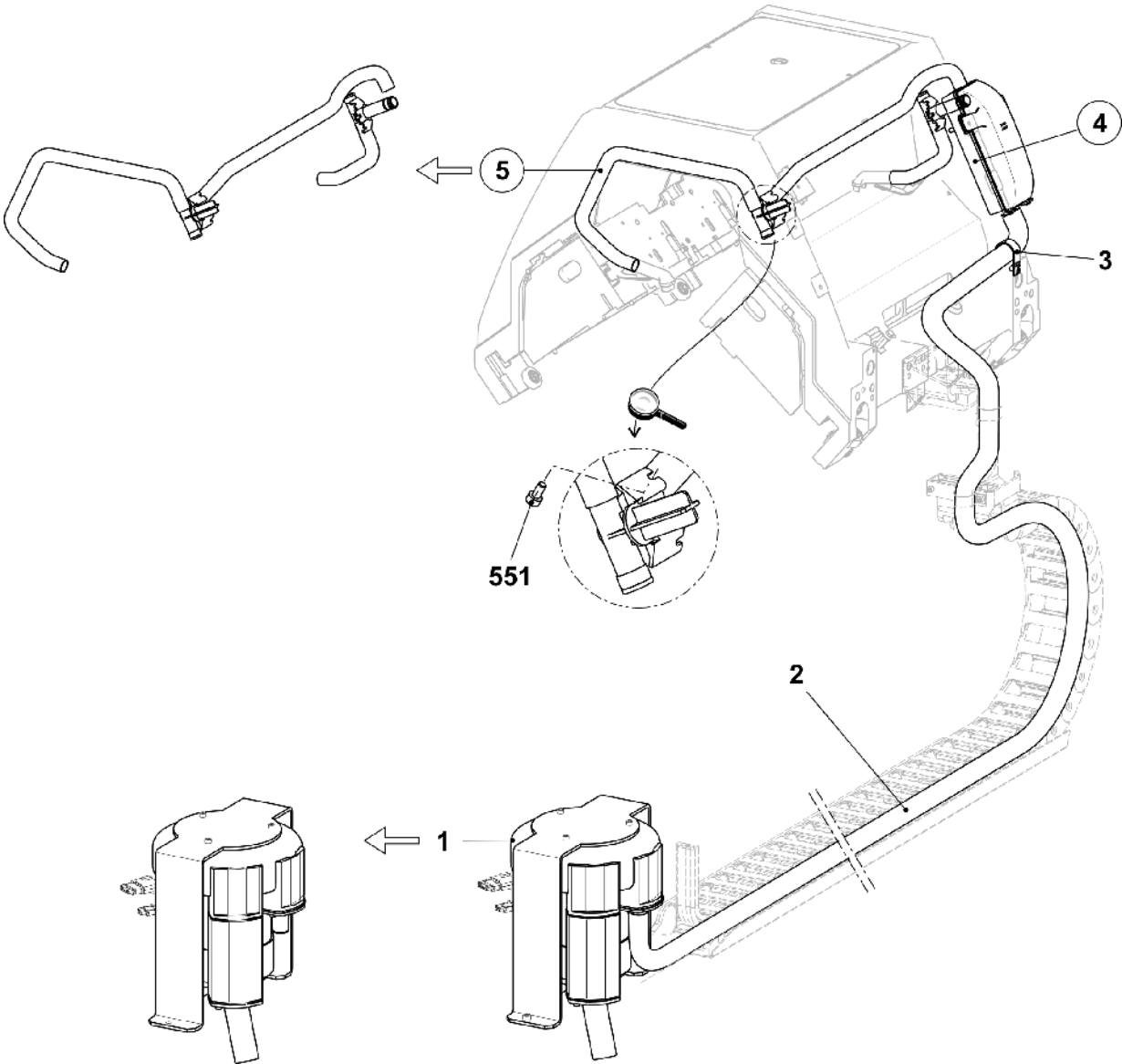


10 Fluff absorption



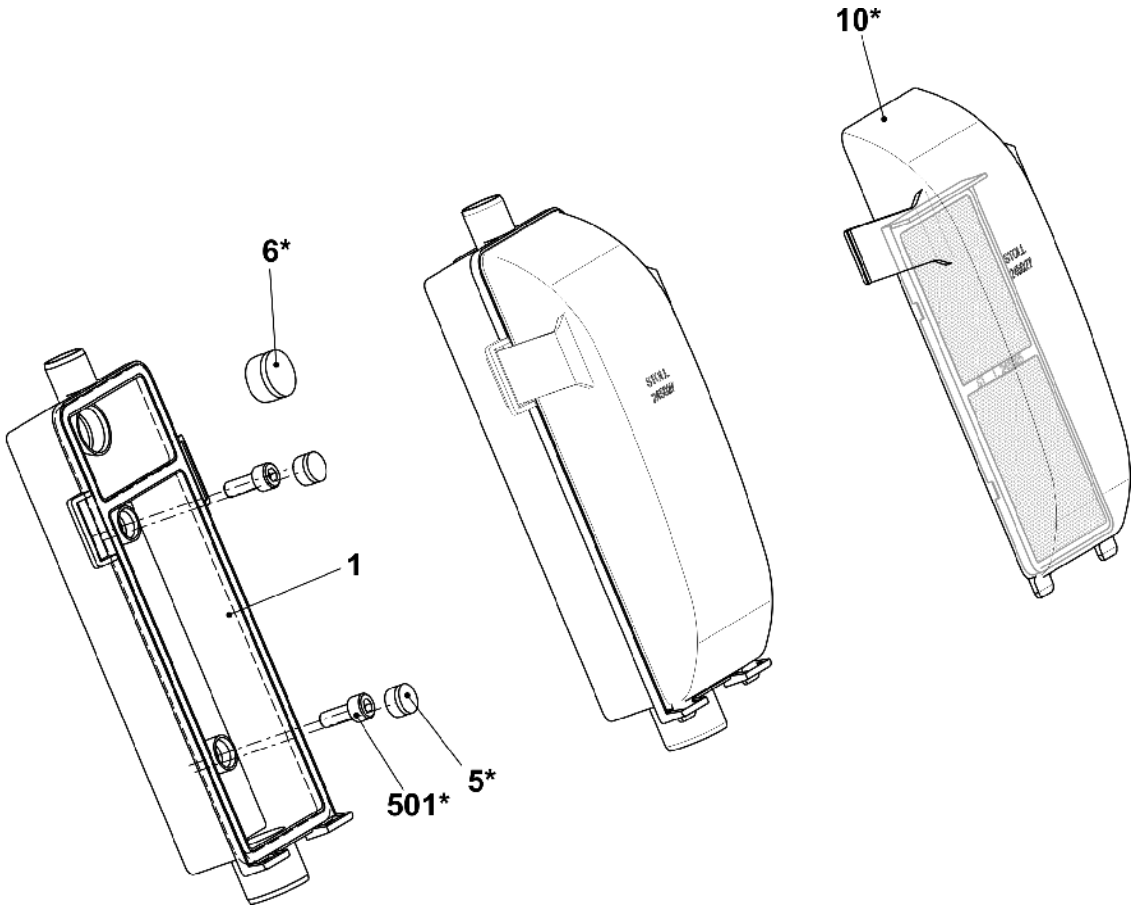
10.1 Fluff absorption

Pos	Designation	Id	Pos	Designation	Id
Σ	Fluff absorption				
1	Suction fan complete	251 332	4	Lint container	245 024
2	Suction hose 29x25x2950	252 747	5	Set of hose complete 730S	251 354
3	Hose clip	214 653	551	Cap screw M4x8	022 501



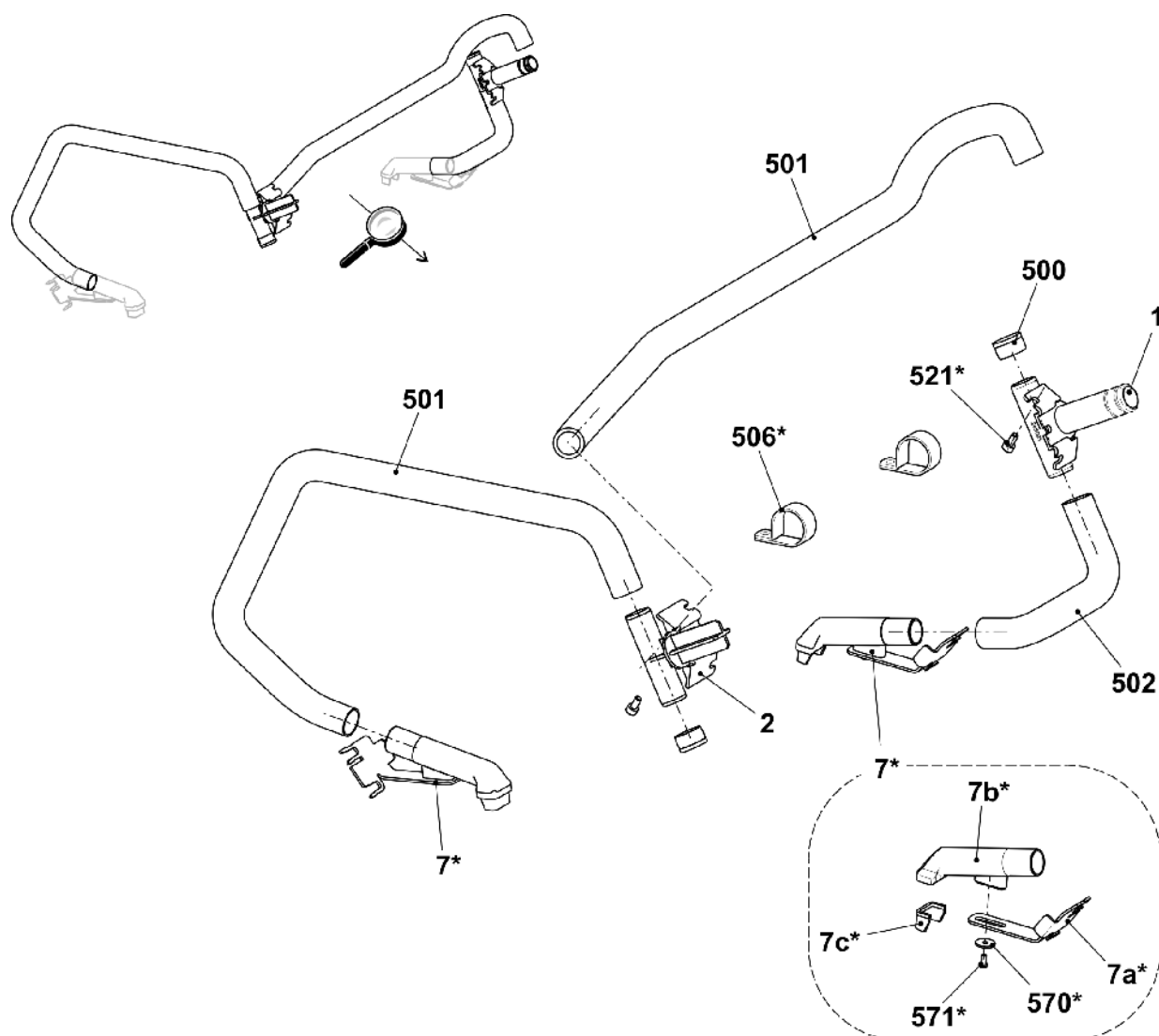
10.2 Lint container

Pos	Designation	Id	Pos	Designation	Id
Σ	Lint container		6*	Sealing plug	245 029
1	Lint container	245 024	10*	Cover with filter	251 335
5*	Sealing plug	245 028	501*	Cap screw M6x10	023 690

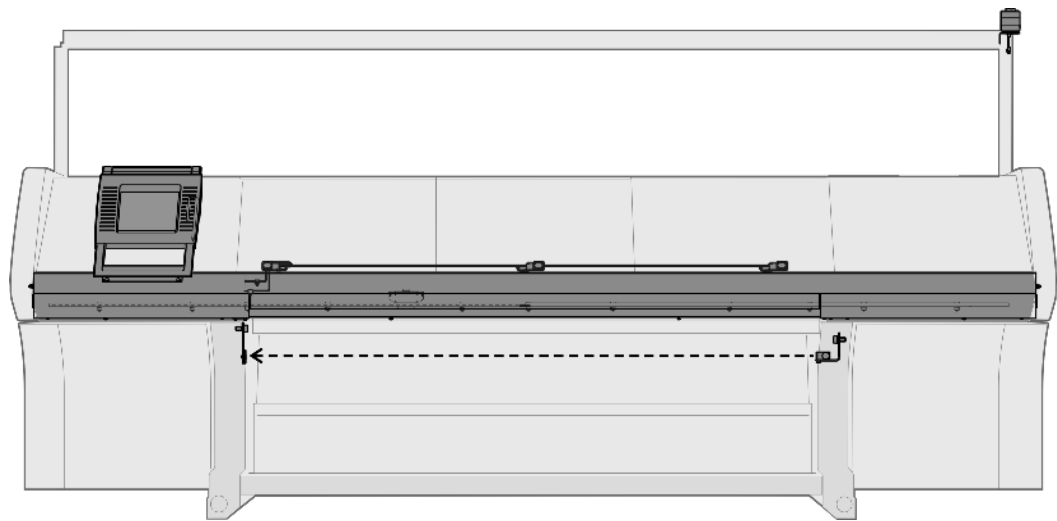


10.3 Set of hose

Pos	Designation	Id	Pos	Designation	Id
Σ	Set of hose complete 730S	251 354	521*	Cap screw M4x8	022 501
1	T-piece FLENT	245 021	7*	Suction tube complete	241 596
2	Connection piece FLENT	245 022	7a*	Support	254 001
500	Sealing plug	245 029	7b*	Suction tube	258 701
501	Suction hose 20x16x570	251 044	7c*	Brush	254 009
502	Suction hose 20x16x140	251 353	570*	Disk3,2x12x1	020 892
506*	Cable clip	250 051	571*	Screw KB 30x6	241 424

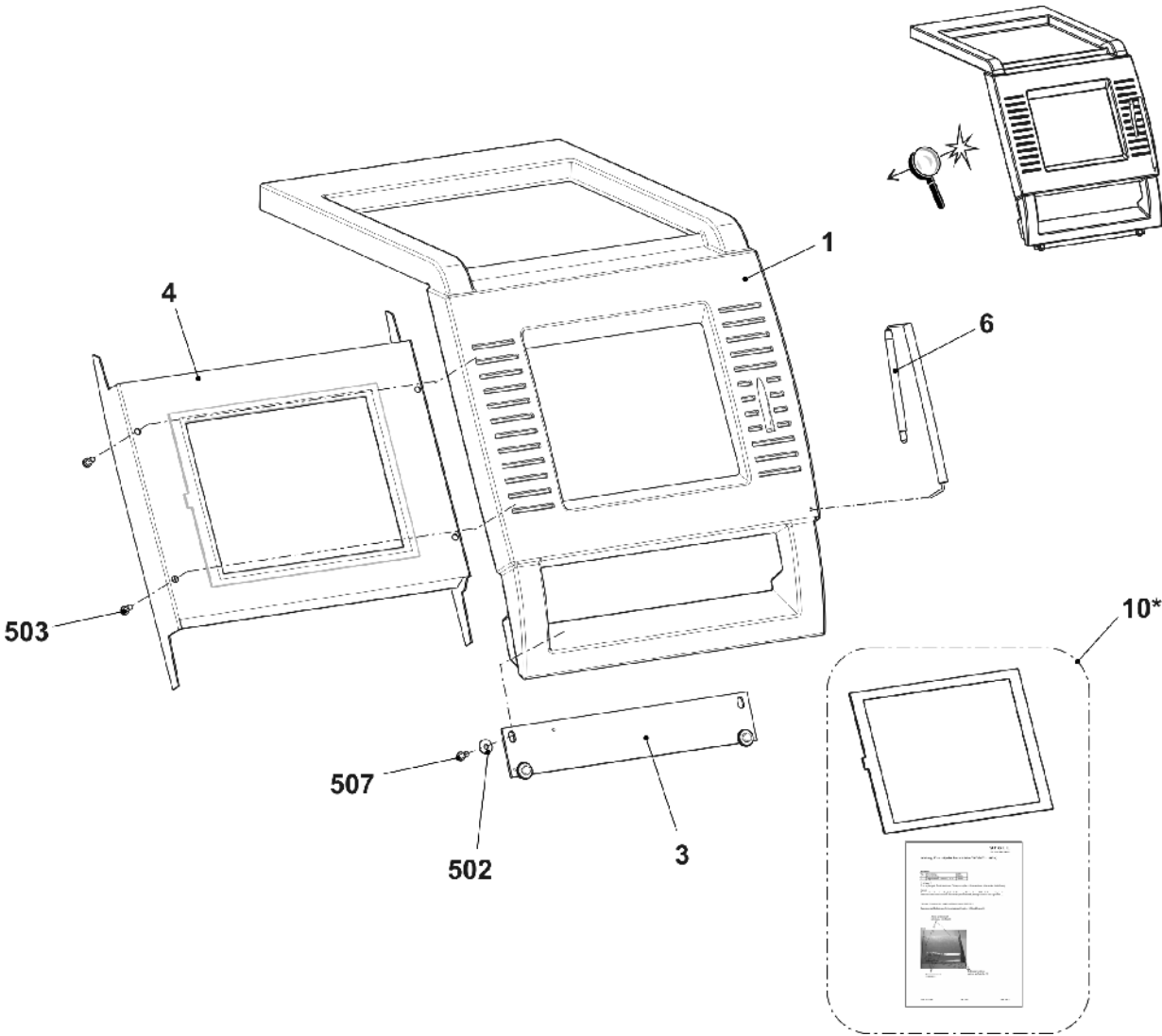


11 Operation and control



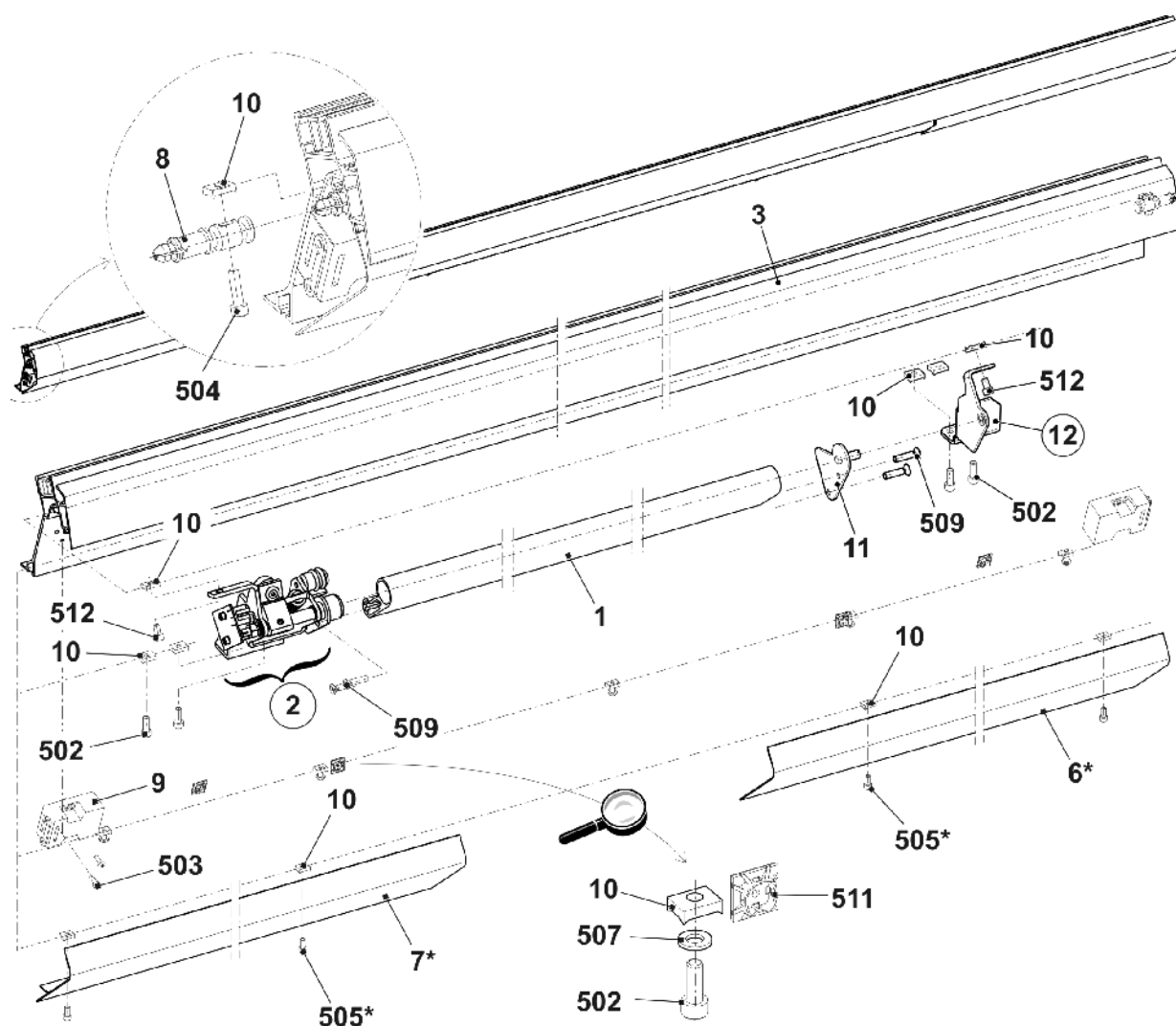
11.1 Input unit

Pos	Designation	Id	Pos	Designation	Id
Σ	Input unit complete	240 194			
1	Base frame	240 195	10*	Touch panel spare parts package	244 554
3	Bearing strip complete	240 198	502	Washer	020 901
4	Display touch complete	250 298	503	Screw KB 50x12	240 359
6	Touch pen	242 812	507	Screw KB 50x15	251 728



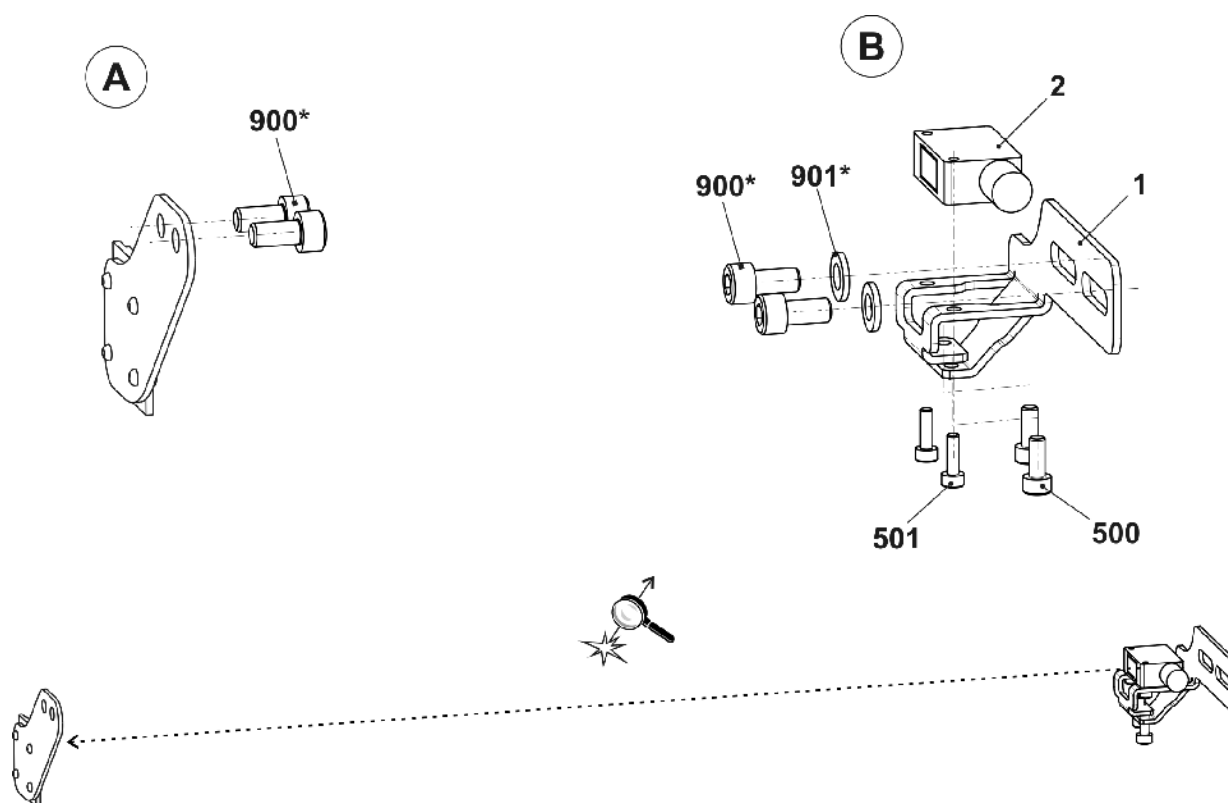
11.2 Starting device

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ	Starting device complete	254 377			
1	Engaging Rod	254 380	12	Bearing on the right	264 800
2	Bearing on the left complete	250 071	502	Cap screw M6x16	020 135
3	Guide rail at the bottom complete	257 540	503	Pan head screw M5x14	023 588
6*	Cover plate on the right	254 379	504	Cap screw M6x20-12.9	020 136
7*	Cover plate on the left	254 378	505*	Cap screw M6x12	020 134
8	Locating bolt	219 107	507	Washer	020 872
9	Cable switch safety doors	223 350	509	Screw M6x25	023 510
10	Sliding nut (slot nut)	225 099	511	Cable holder	262 037
11	Bearing on the right complete	265 444	512	Cap screw M6x10	023 690



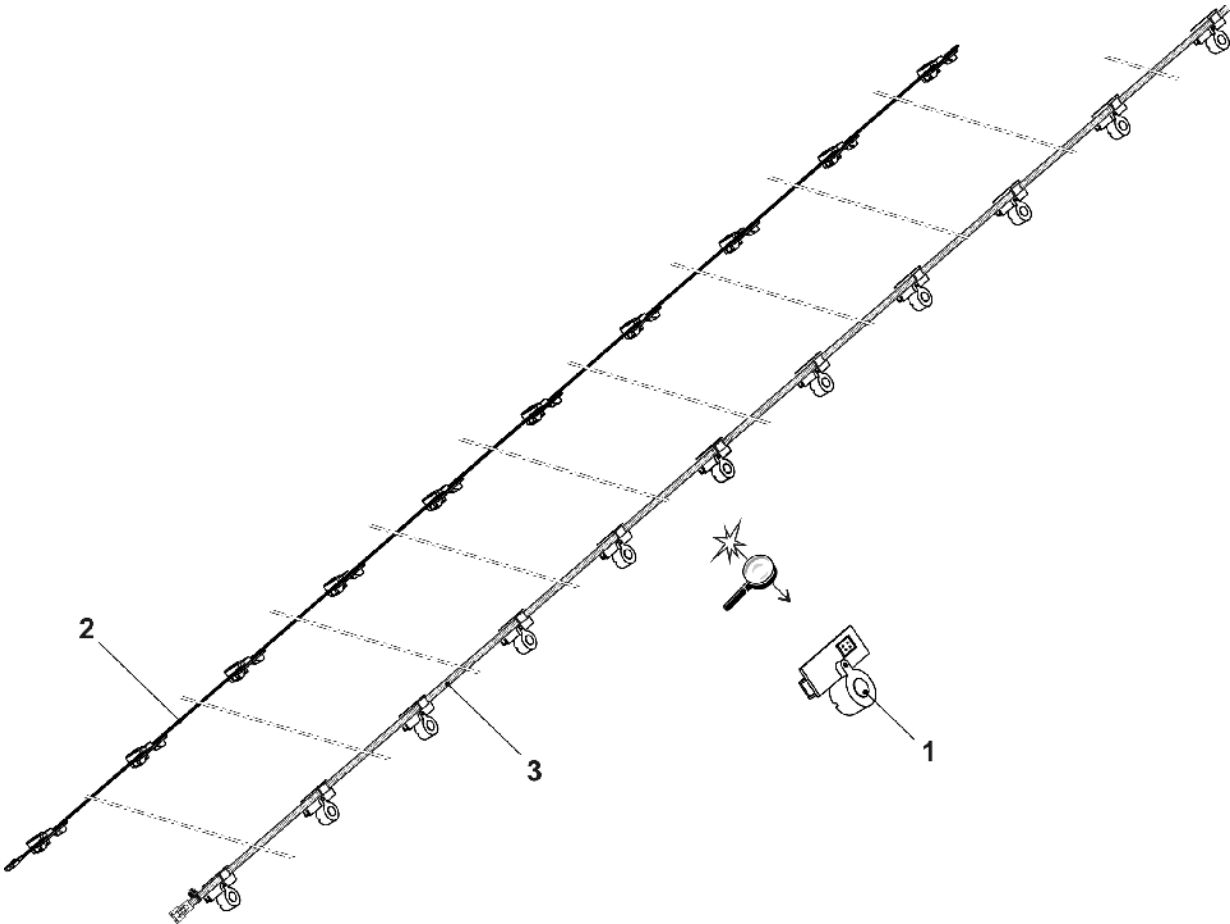
11.3 Control of Collecting Area

Pos	Designation	Id	Pos	Designation	Id
A	Reflector complete	261 374	B	Holding angle light barrier	257 409
900*	Cap screw M6x12	020 134	1	Holding angle	256 806
			2	Light barrier	243 355
			500	Cap screw M4x10	023 136
			501	Cap screw M3x10	022 991
			900*	Cap screw M6x12	020 134
			901*	Washer	020 872



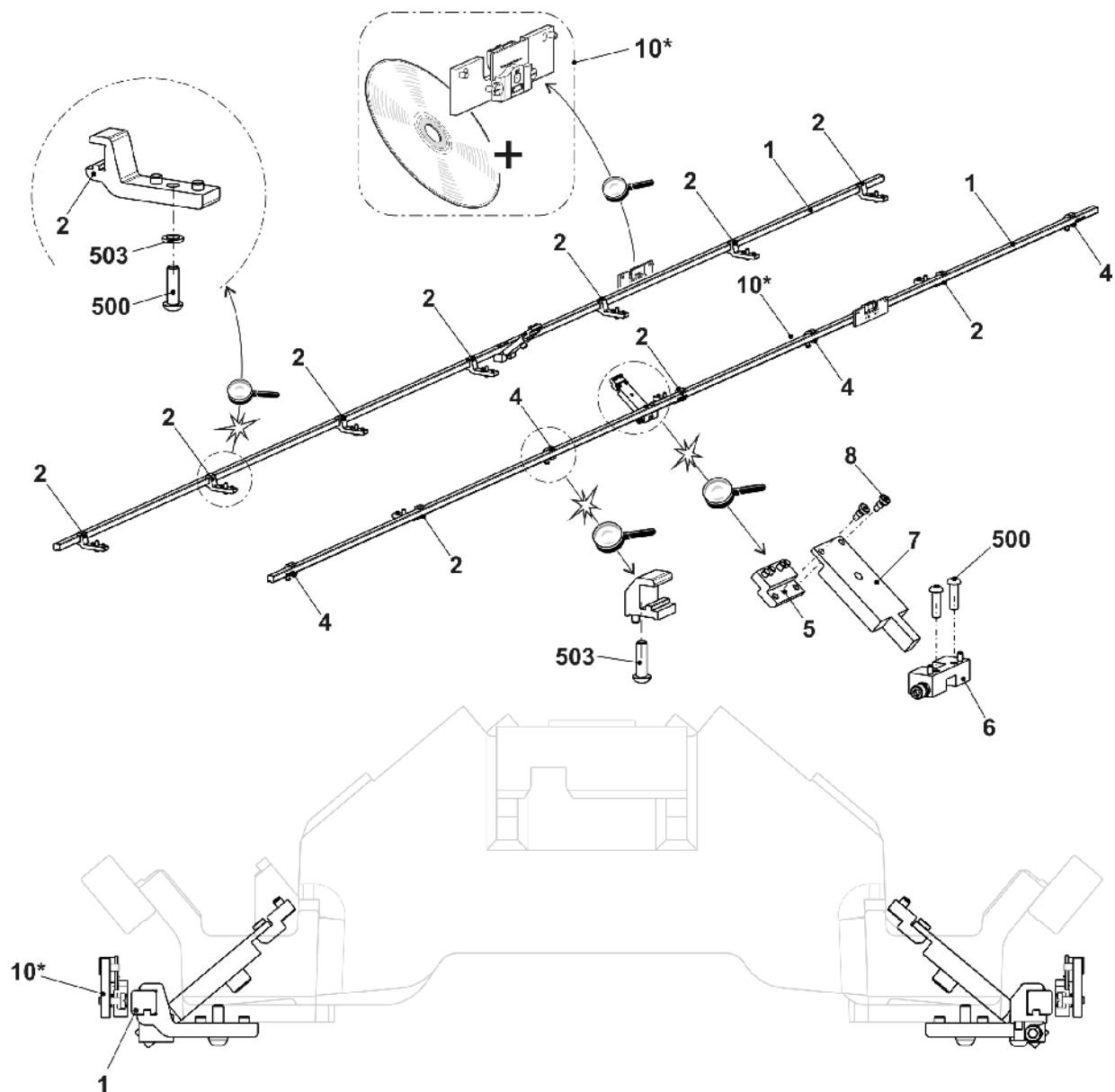
11.4 Shock stop motion

Pos	Designation	ID	Pos	Designation	ID
Σ	Shock stop motion complete 830S	257 089	2	Cable connection piezo at the rear	257 090
1	Shock sensor	255 315	3	Cable connection piezo at the front	257 091

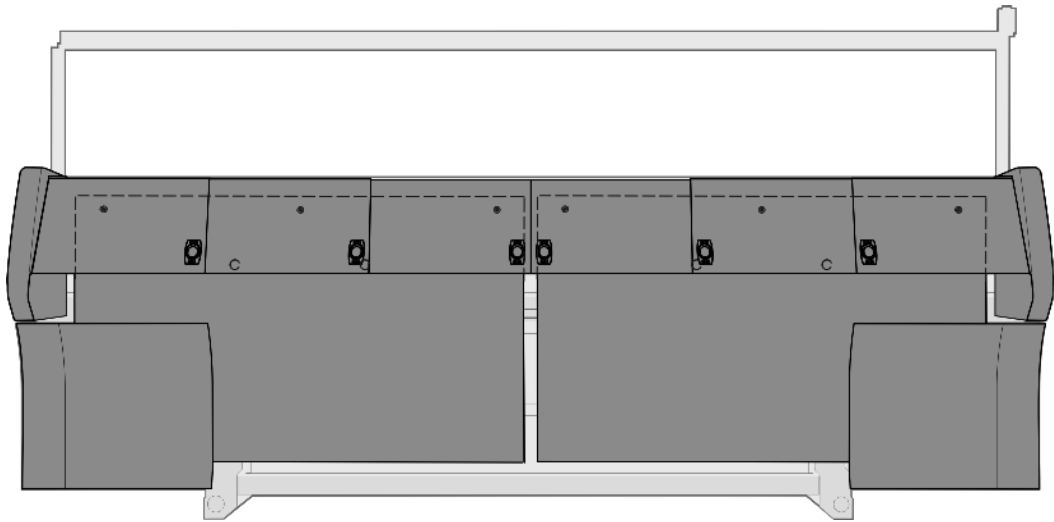


11.5 Measuring device

Pos	Designation	Id	Pos	Designation	Id
Σ	Measuring device				
1	Measuring bar	258 312	7	Plunger	244 605
2	Guide	212 210	8	Shoulder screw	209 790
4	Clamp	212 203	500	Pan-head screw M6x20	241 603
5	Stop point	244973	503	Washer 6	020 881
6	Bearing fork	244 535	10*	Spare parts package impulse sensor GLM	259 613

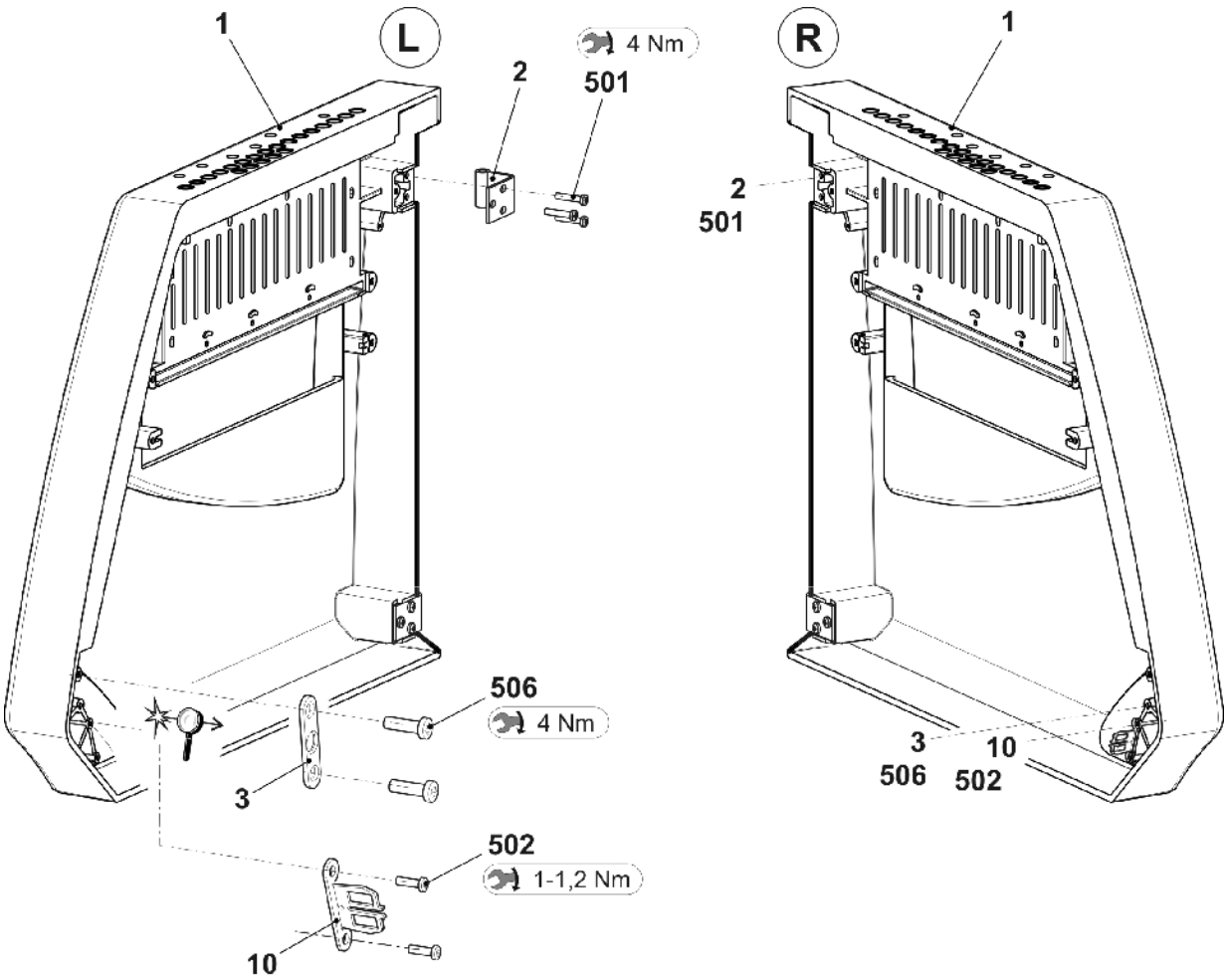


12 Protective devices



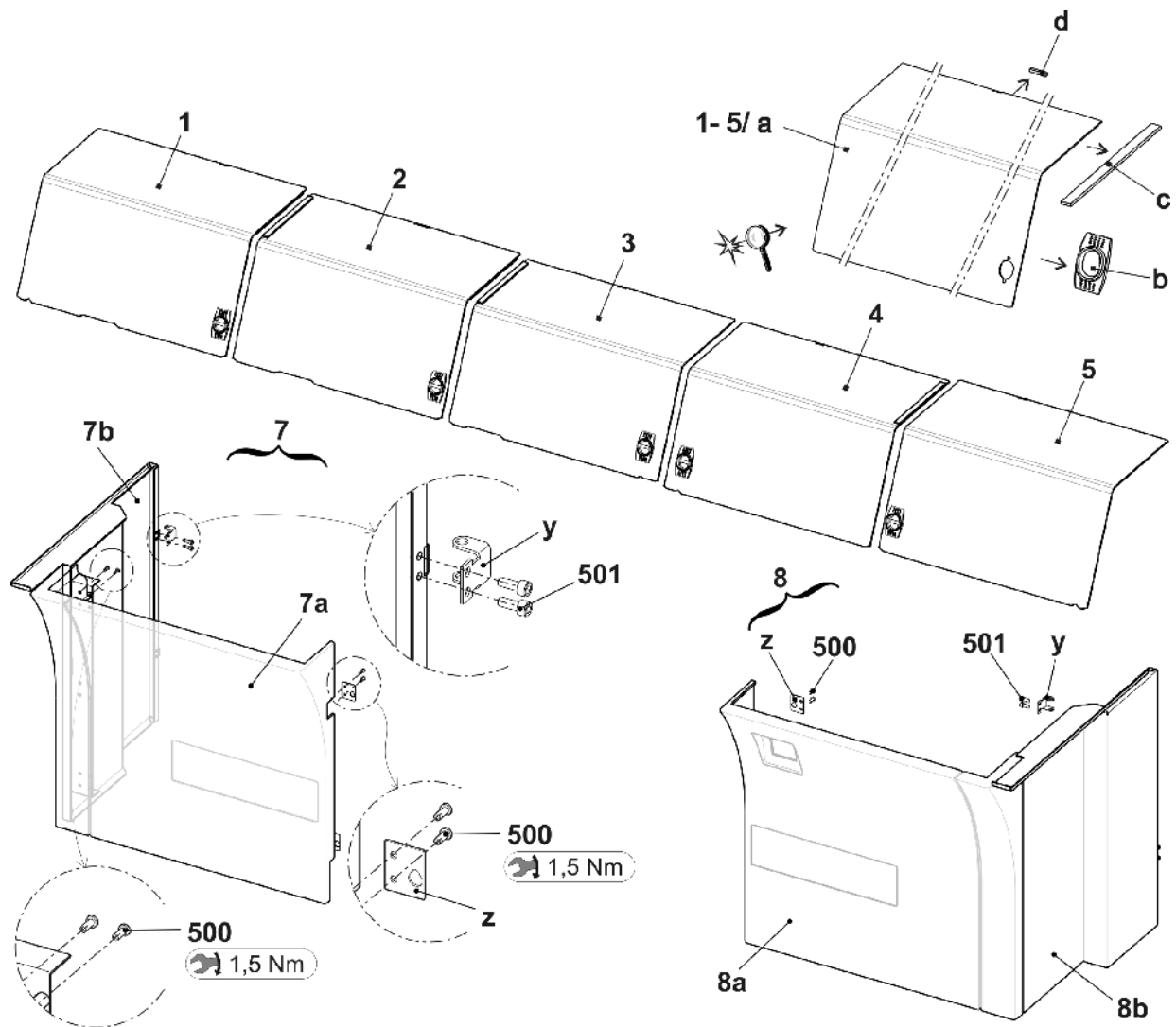
12.1 Lateral safety doors

Pos	Designation	Id	Pos	Designation	Id
Σ	Safety door on the left		Σ	Safety door on the right	
1	Safety door on the left	265 278	1	Safety door on the right	265 279
2	Hinge	263 939	2	Hinge	263 939
4	Locking plate	219 748	4	Locking plate	219 748
10	ActuatorAZ 15/16	255 492	10	ActuatorAZ 15/16	255 492
501	Screw 6x30	265 380	501	Screw 6x30	265 380
502	Screw 4x16	263 995	502	Screw 4x16	263 995
506	Screw 6x20	265 379	506	Screw 6x20	265 379



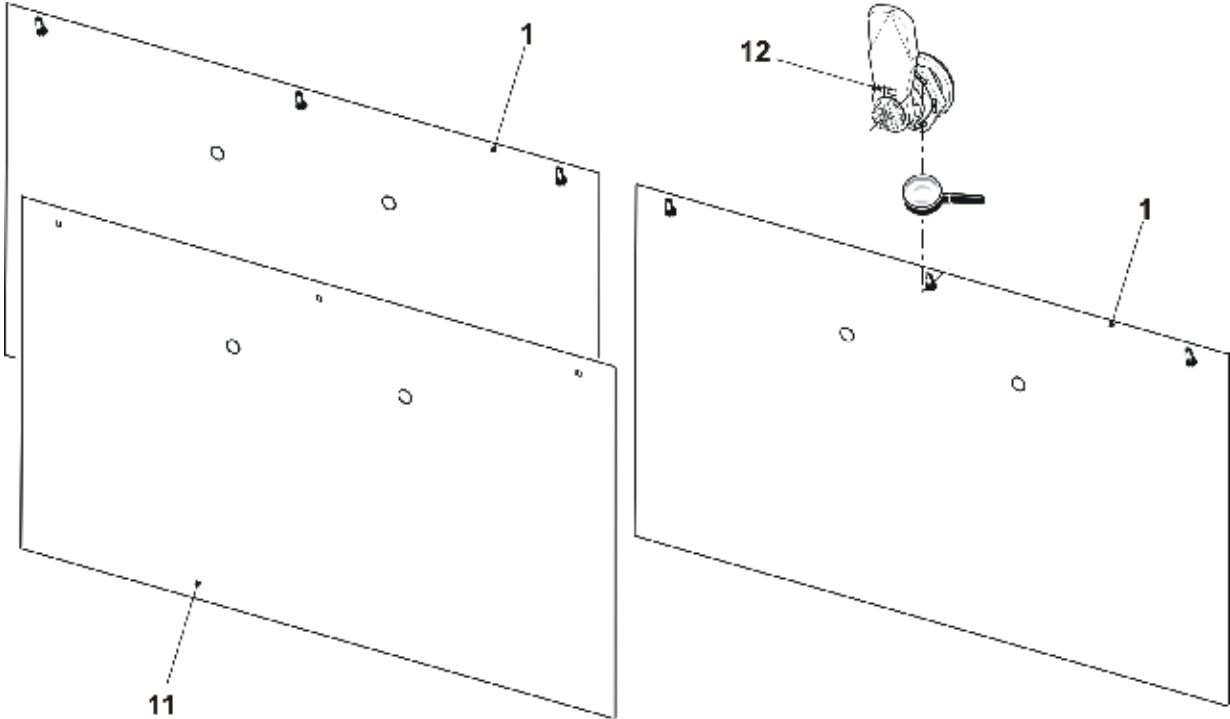
12.2 Panelling

Pos	Designation		Id	Pos	Designation		Id	
1	Cover 1 (complete)		257 532	1-5	d	Magnet	255 129	
	1a	Cover	257 527		7	Control unit panelling on the left complete		254 862
2	Cover 2 (complete)		257 533		7a	Control unit panelling on the left		251 188
	2a	Cover 2	257 528		7b	Side part on the left		254 845
3	Cover 3 (complete)		257 534	8	Control unit panelling on the right complete		254 863	
	3a	Cover 3	257 529		8a	Control unit panelling on the right		251 189
4	Cover 4 (complete)		257 535		8b	Side part on the right		254 846
	4a	Cover 4	257 530		7-8	y	Hinge	250 273
5	Cover 5 (complete)		257 536	z		Bracket		240 412
	5a	Cover 5	257 531	500		Screw KB 50x12		240 359
1-5	b	Inlet type handle	251 376	501		Cap screw M6x16		020 135
	c	Stripper	219 393					

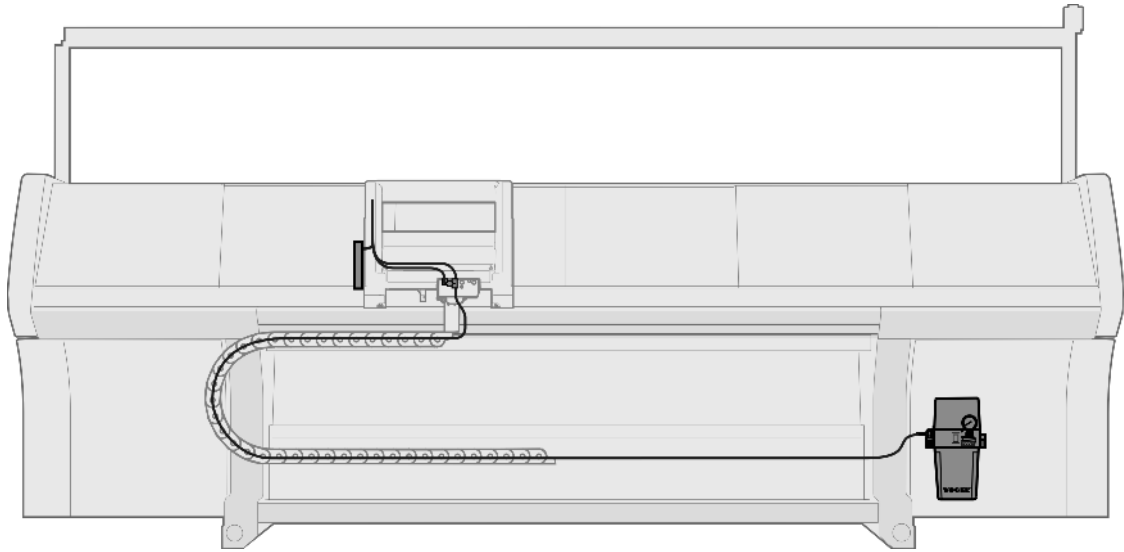


12.3 Rear panel

Pos	Designation	Id. no.	Pos	Designation	Id. no.
1	Panelling at the rear complete	257 670	11	Panelling	257 664
			12	Safety sash fastener	243 052

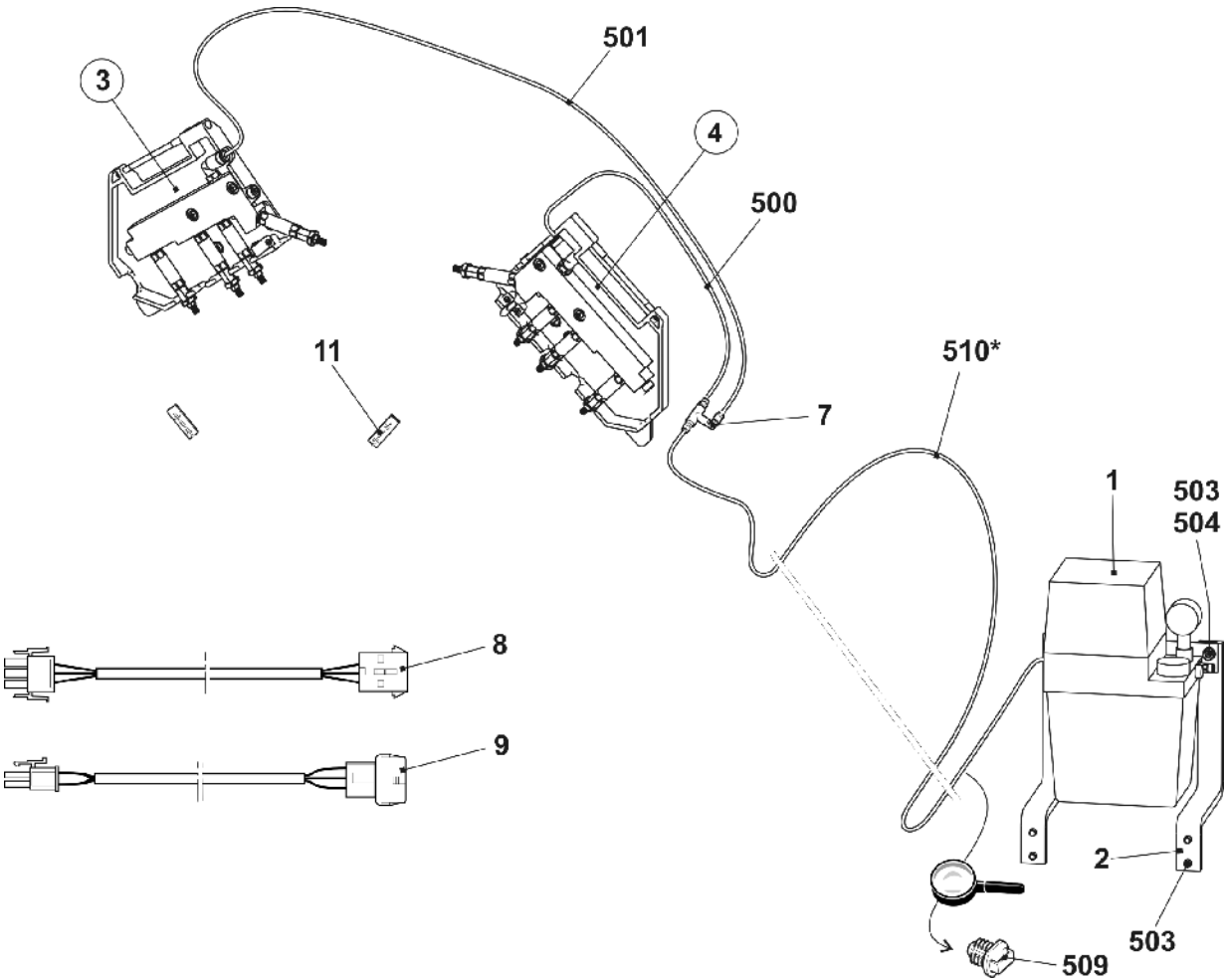


13 Central lubrication



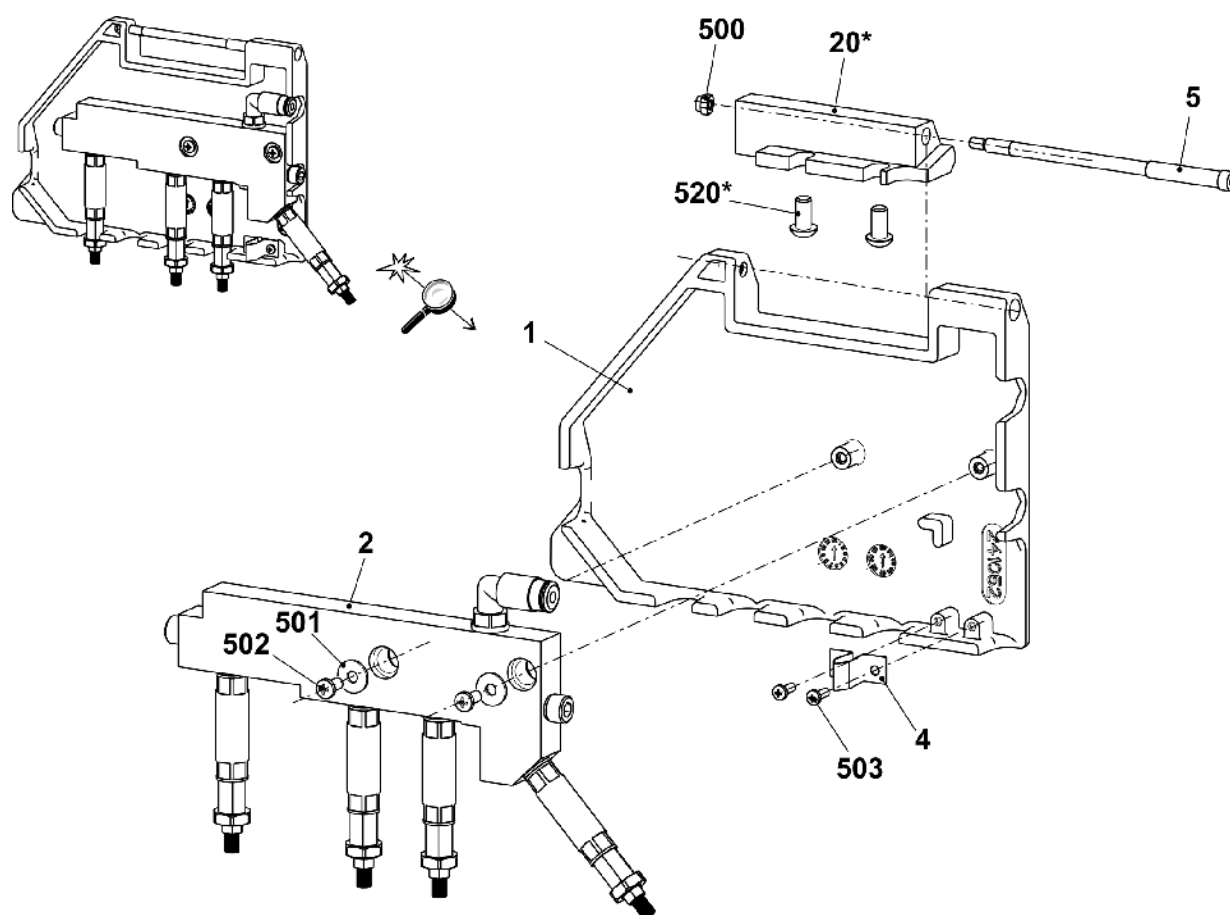
13.1 Central lubrication

Pos	Designation	Id	Pos	Designation	Id
Σ	Central lubrication 730S	241 812			
1	Oil central lubricating pump Vogel	235 068	11	Sealing plug	240 777
2	Support for oil equipment	241 636	500	Tubular D6, L = 500	235 037
3	Lubrication unit at the front complete	241 066	501	Tubular D6, L = 1000	235 038
4	Lubrication unit at the rear complete	241 067	503	Cap screw M8x16	023 629
7	T-piece complete	235 039	504	Washer 8	020 883
8	Cable supply ZS 72"/84" OKC	241 850	509	Assembling element	209 543
9	Cable control ZS OKC	238 704	510*	Tubular D6, L = 4900	237 522



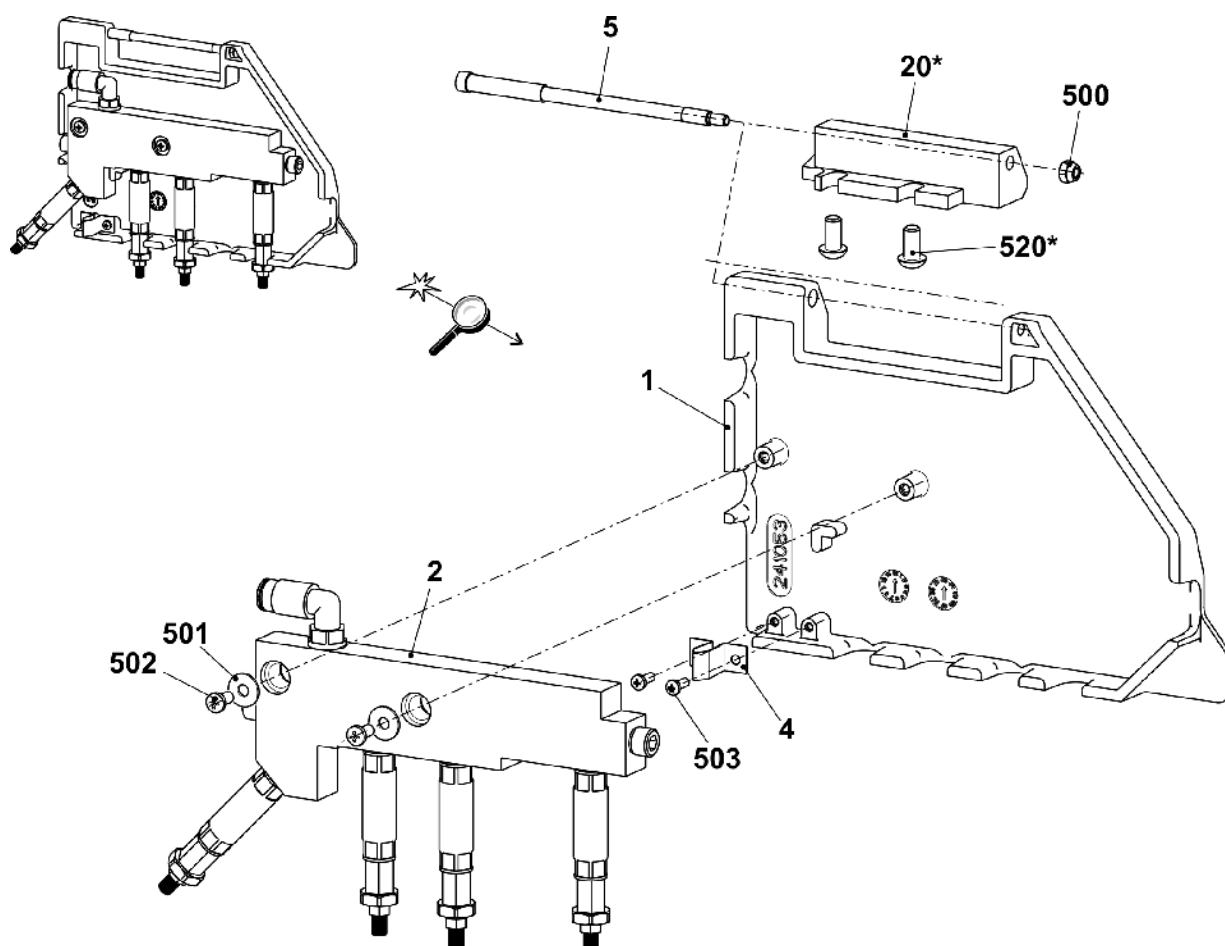
13.1.1 Lubrication unit at the front complete

Pos	Designation	ID	Pos	Designation	ID
Σ	Lubrication unit at the front complete	241 066			
1	Housing at the front	241 052	500	Hexagon nut M4	023 046
2	Distributor complete	254 891	501	Washer 4	023 047
4	Locking bar	235 054	502	Screw KB 40x8	238 089
5	Shoulder screw	240 790	503	Screw KB 30x8	236 228
20*	Joint at the front	240 791	520*	Pan head screw M6x12	235 935



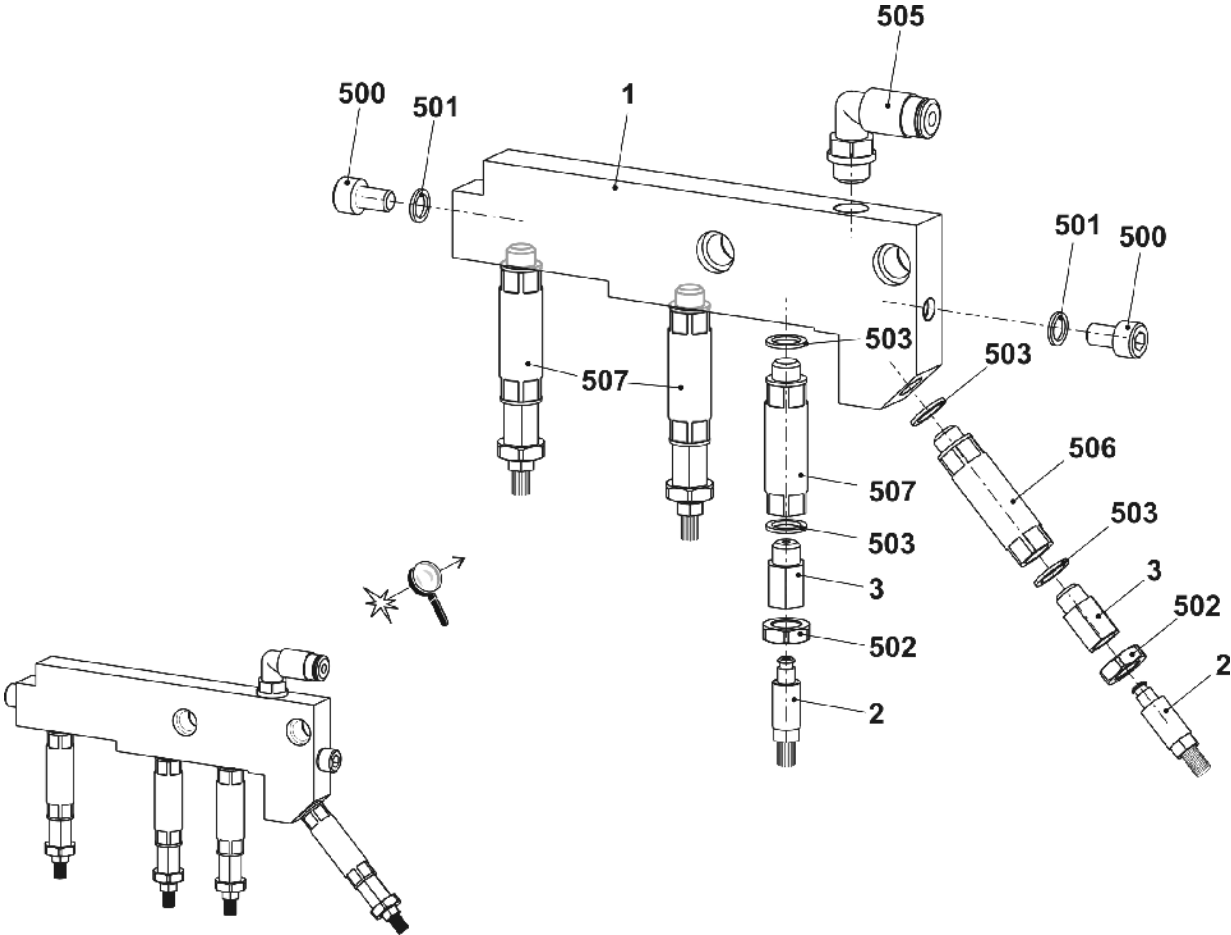
13.1.2 Lubrication unit at the rear complete

Pos	Designation	ID	Pos	Designation	ID
Σ	Lubrication unit at the rear complete	241 067			
1	Housing at the rear	241 053	500	Hexagon nut M4	023 046
2	Distributor complete	254 891	501	Washer 4	023 047
4	Locking bar	235 054	502	Screw KB 40x8	238 089
5	Shoulder screw	240 790	503	Screw KB 30x8	236 228
20*	Joint at the rear	240 792	520*	Pan head screw M6x12	235 935

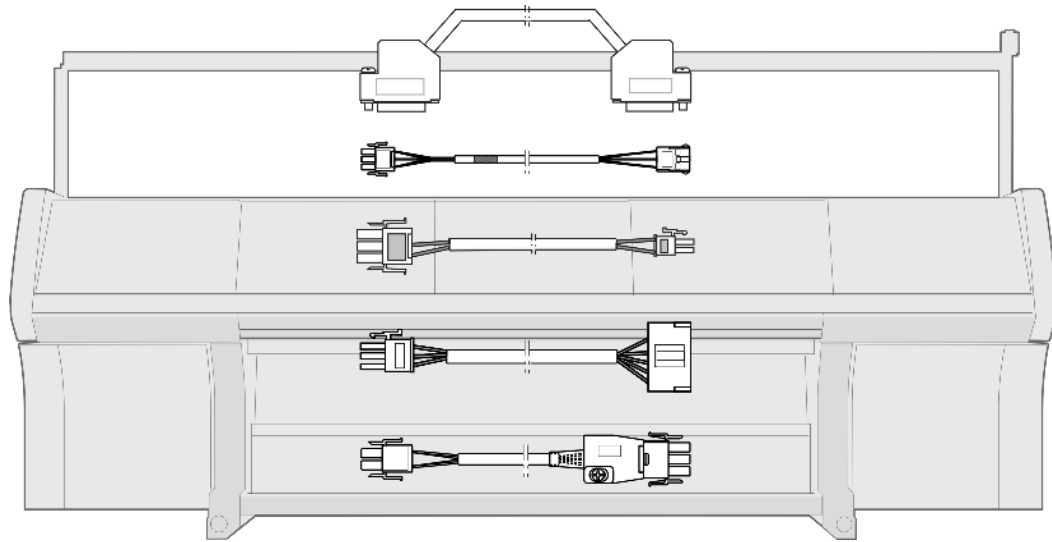


13.1.3 Distributor

Pos	Designation	Id	Pos	Designation	Id
Σ	Distributor complete	254 891			
1	Distributor	254 890	502	Hexagon nut M8-04	020 856
2	Brush	235 050	503	Sealing ring A8x11,5	023 892
3	Adapter brush	235 049	505	Swivelling connection	235 067
500	Cap screw M6x10	023 690	506	Dosing unit screw connection	235 079
501	Sealing ring A6,5x9,5	237 456	507	Dosing unit screw connection	237 809



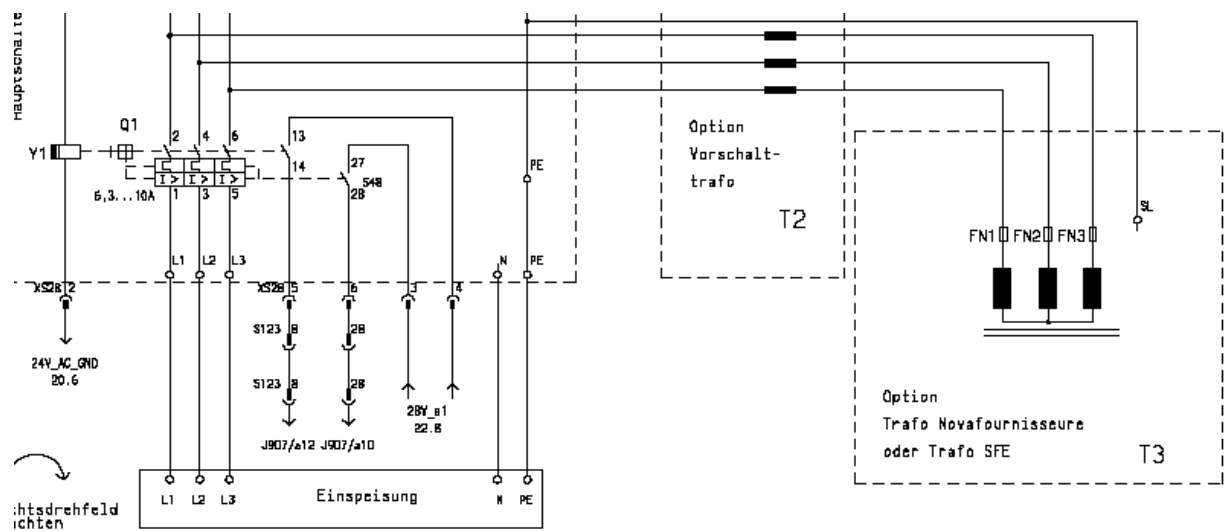
14 Electrical equipment



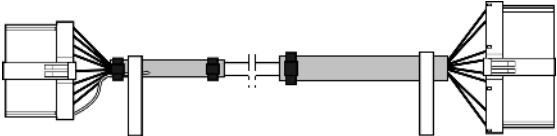
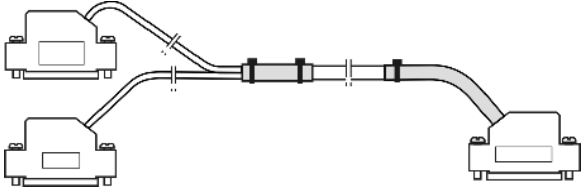
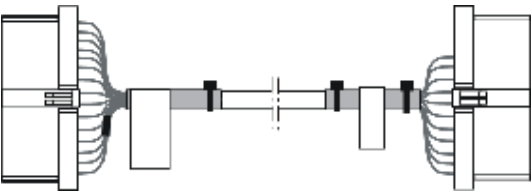
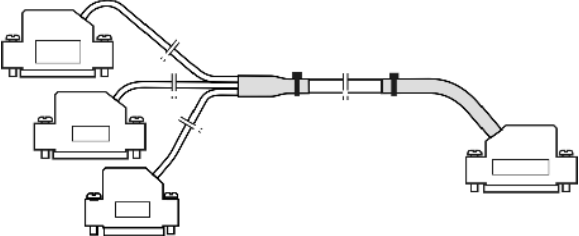
14.1 Circuit diagram (221) as PDF

Designation	ID	Marking
Circuit diagram 221 German	257 279	_DE
Circuit diagram 221 English	257 279	_GB
Circuit diagram 221 Chinese	257 279	_CN

You will find the circuit diagram 221 on the CMS documentation DVD with the ID no.: 257 157



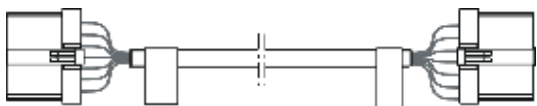
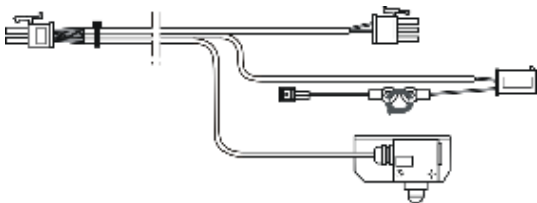
14.2 Trailing cable

Designation	ID	Designation	ID
Trailing cable set OKC 830S 2IMP-2	259 308		
Cable impulse sensor 2 at the rear XL136 830S OKC3	259 363	Cable SM1 at the rear XD4 830S OKC	254 987
Cable impulse sensor 2 at the front XL137 830S OKC3	259 364	Cable SM1 at the front XD4 830S OKC	254 991
			
Cable yarn carrier 830S OKC	254 985	Cable SM2rear IxD3 830S OKC	254 988
		Cable SM2rear IxD2 830S OKC	254 989
Cable signal at the rear XD1 830S OKC	254 986	Cable SM2front XD3 830S OKC	254 992
Cable signal at the front XD1 830S OKC	254 990	Cable SM3front XD2 830S OKC	254 993
			

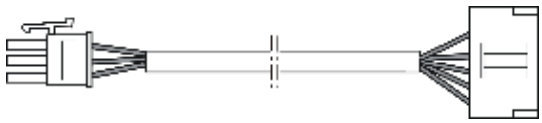
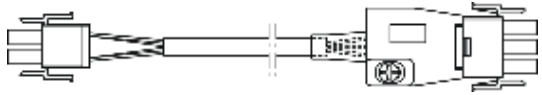
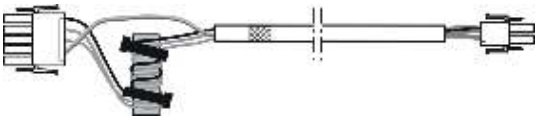
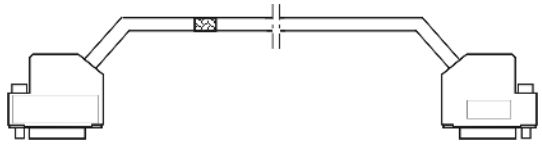
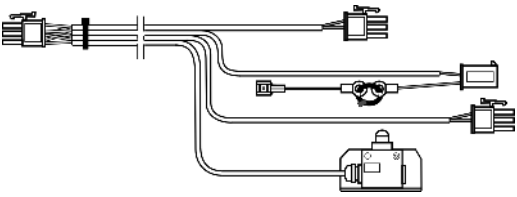
14.3 Cable set installation

Designation		ID	Designation		ID
Σ	Cable set installation 830S OKC	255 065	3	Loom of cables comb OKC	240 259
1	Loom of cables base 1OKC	253 439	4	Loom of cables 86" OKC	255 136
2	Loom of cables base 2OKC	253 440	5	Loom of cables 830S OKC	255 083

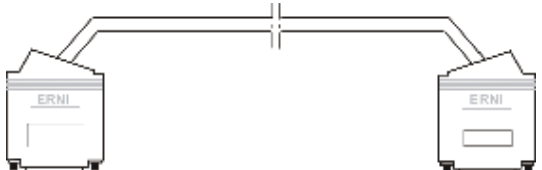
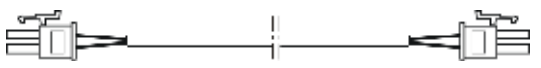
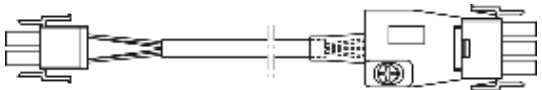
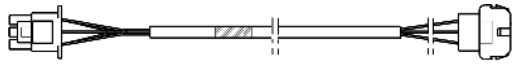
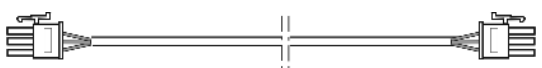
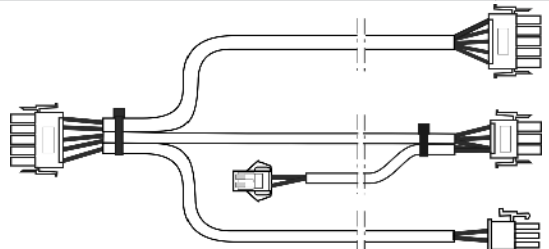
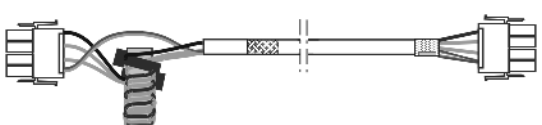
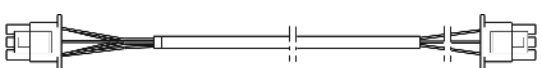
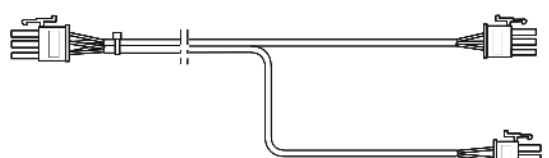
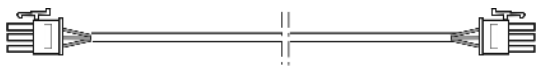
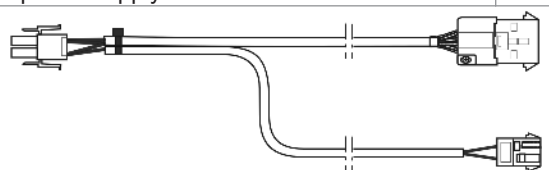
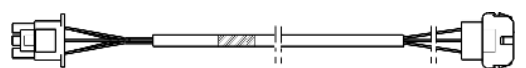
14.3.1 Loom of cables base 1

Designation		ID	Designation		ID
Loom of cables base 1 OKC		253 439			
Cable Engaging rod OKC 3XX		240 289	Cable supply FKE lamp OKC		240 290
					
Cable protective device on the left OKC		253 442			
					

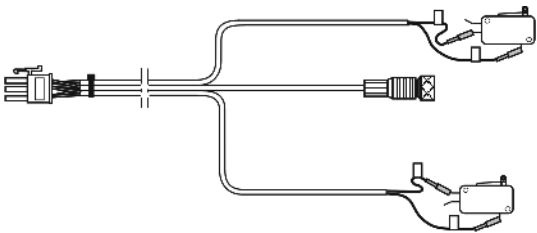
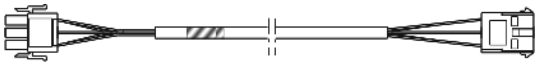
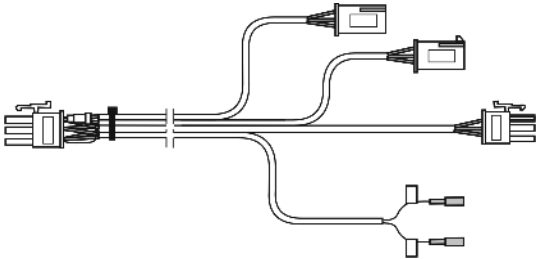
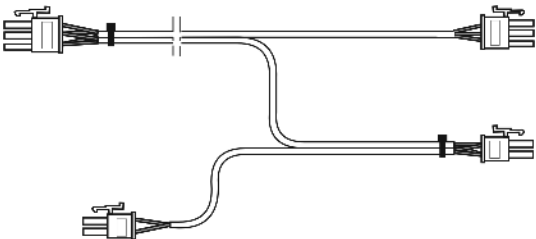
14.3.2 Loom of cables base 2

Designation	ID	Designation	ID
Loom of cables base 2OKC	253 440		
Cable motor HAAB OKC	240 291	Cable racking limit switch OKC	240 292
			
Cable fan drive OKC	240 293	Cable Feed wheel on the right OKC	240 294
			
Cable drive motor OKC	240 295	Cable resolver drive OKC	240 296
Cable racking motor OKC	240 297	Cable resolver racking OKC	240 298
			
Cable protective device on the right OKC	253 441		
			

14.3.3 Loom of cables 86"

Designation	ID	Designation	ID
Loom of cables 86" OKC	255 136		
Cable CAN 84"	240 461	Cable Electro 84" OKC	240 463
			
Cable feed wheel on the left 84" OKC	240 466	Cable motor HIAB84" OKC	242 226
			
Cable switch HIAB 84" OKC	242 227	Cable power supply WAZ/F 84" OKC	263 688
			
Cable power supply servo 84"	240 504	Cable power supply unit of mains supply OKC	236 573
			
Cable motor HAABOEF/S 84" OKC	242 228	Cable switch HIAB Anpr. OKC	240 593
			
Cable switch HAOS 84" OKC	242 229	Cable power supply FLENT 84" OKC	251 243
			
Cable motor HIAB Anpress OKC	240 592		
			

14.3.4 Loom of cables COMB

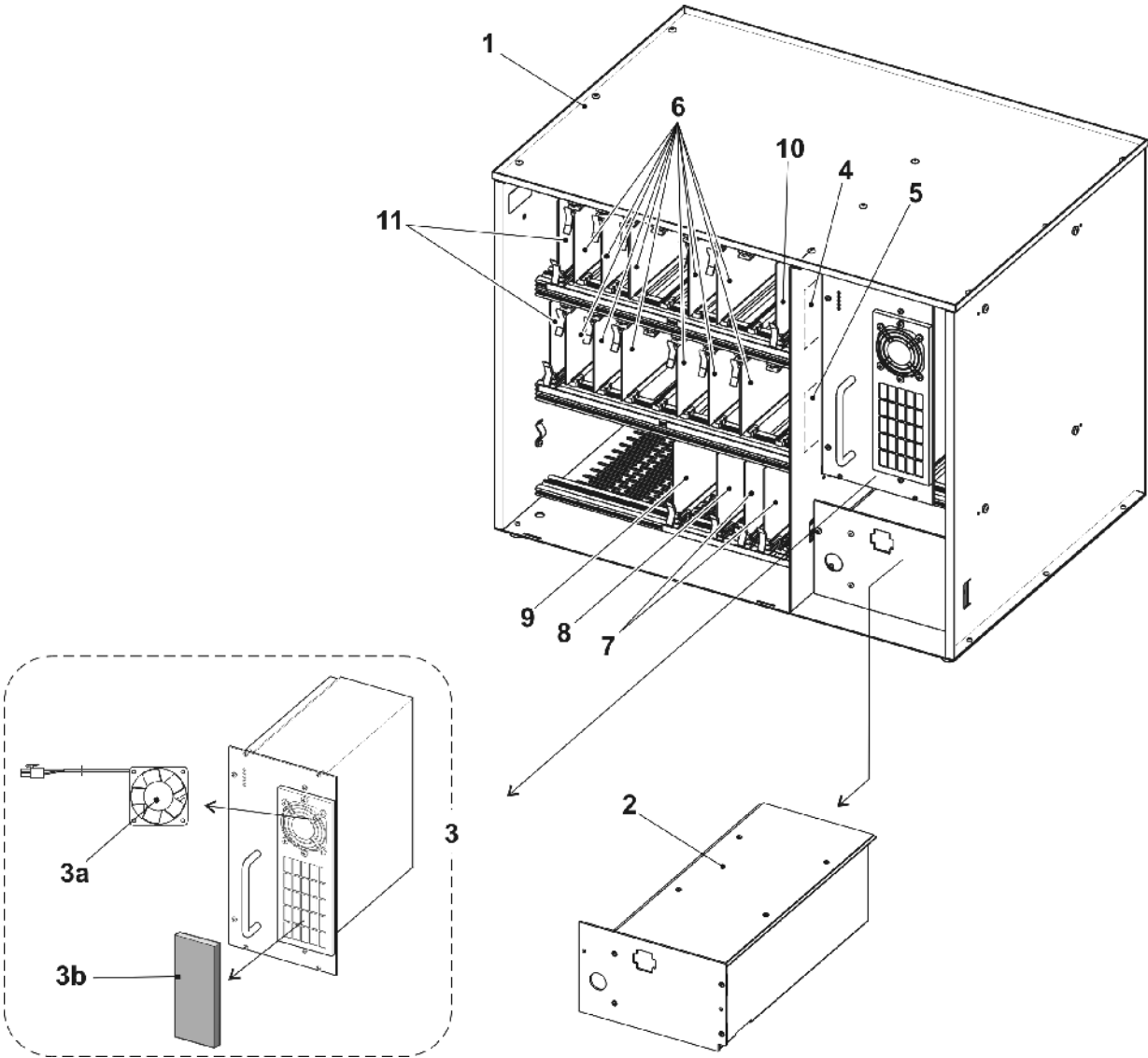
Designation	Id	Designation	Id
Loom of cables COMBOKC	240 259		
Cable motor comb hookOKC	240 308	Cable switch KAHA OKC	240 309
			
Cable motor combOKC	240 310	Cable switch comb OKC	240 311
			
Cable switch HAAB OKC	240 312		
			

15 Control electronics



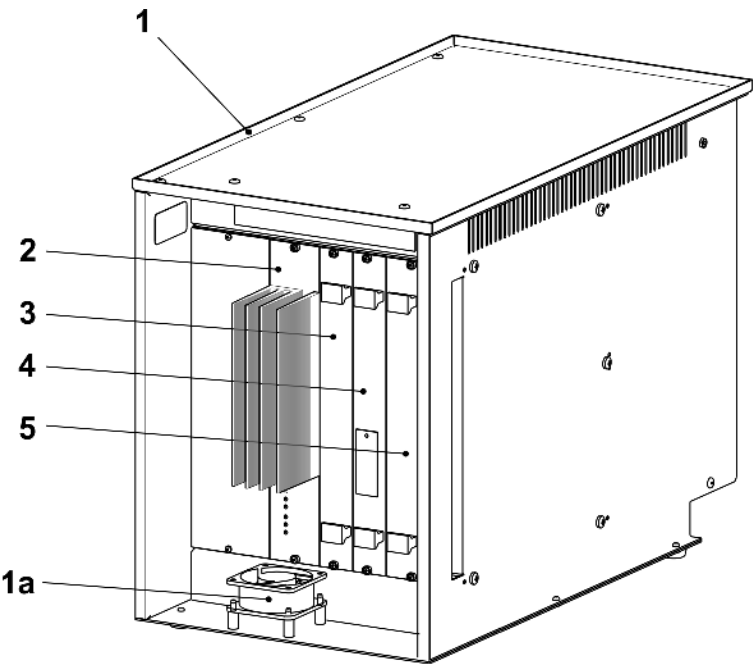
15.1
Left control cabinet

Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit on the left complete 730S okc3	255 963	5	Card YC final stages	300 939
1	Control unit on the left without equip- ment730S okc3	255 962	6	Card final stages 4SM 7TE	300 943
2	Battery plug-in unit	300 924	7	Card N-CPU 432	300 965
3	Power supply unit CG54 with double channel	300 977	8	Card Power CPU B	301 009
3a	Fan power supply unit	239 305	9	Card IPC P9X S 01	264 480
3b	Filter mat CG54	239 350	10	Card SM-CPU 2	300 946
4	Card battery OKC	300 951	11	Card SM-CPU 2 IO-5V	300 947



15.2 Right control cabinet

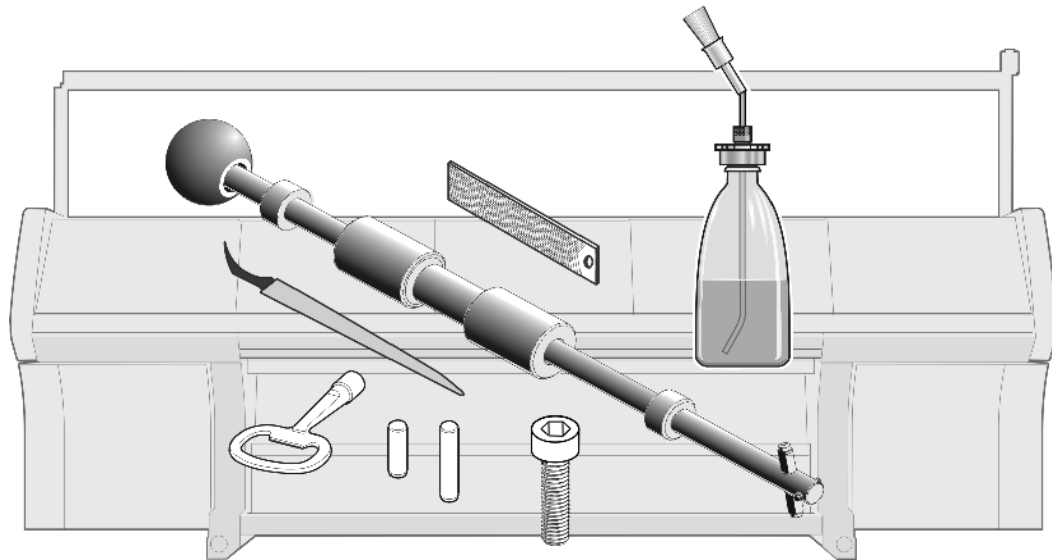
Pos	Designation	Id	Pos	Designation	Id
Σ	Control unit on the right complete 2A 72" okc	238 738			
1	Control unit on the right without equipment	238 737	3	Card relay okc	300 953
1a	Axial flow fan Servo 05	229 059	4	Card CWAZ	300 929
2	Card Servo6 okc	301 000	5	Capacitor card CWAZ	300 936



16 Deliverable accessories

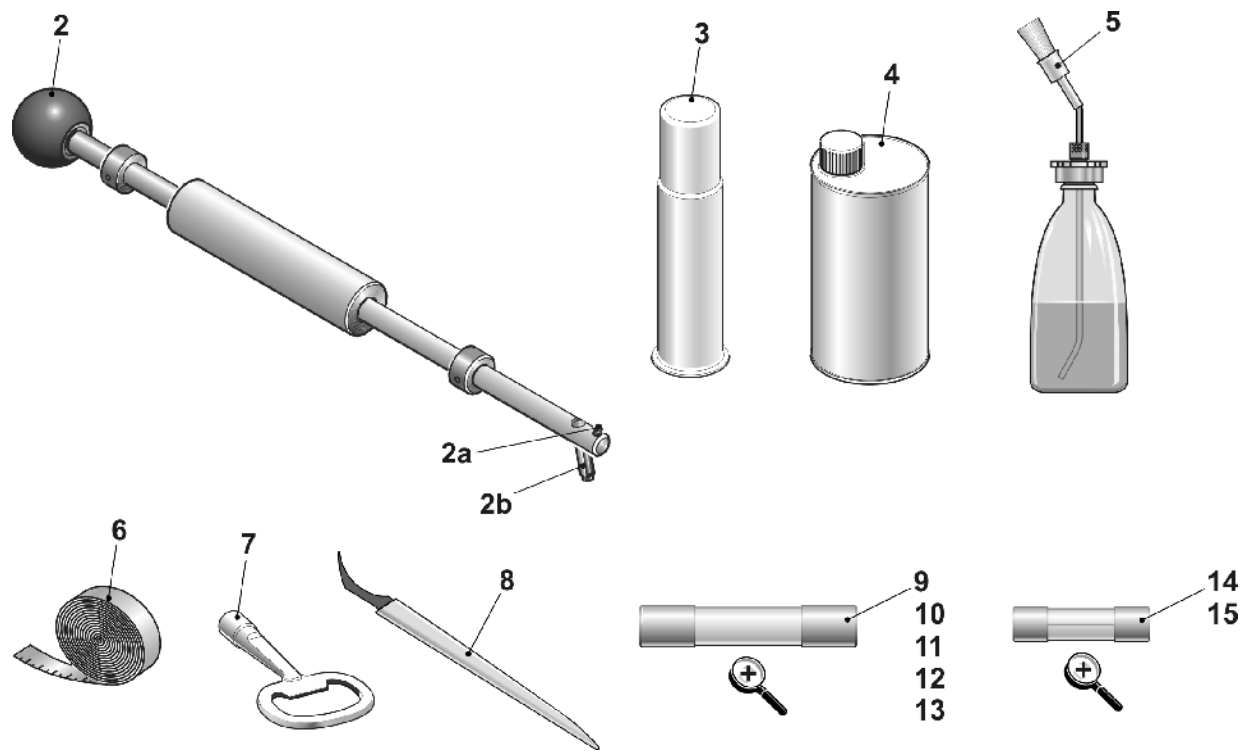
You can order the following tools, lubricants and expendables.

The following list does not correspond to the scope of delivery of the knitting machine.



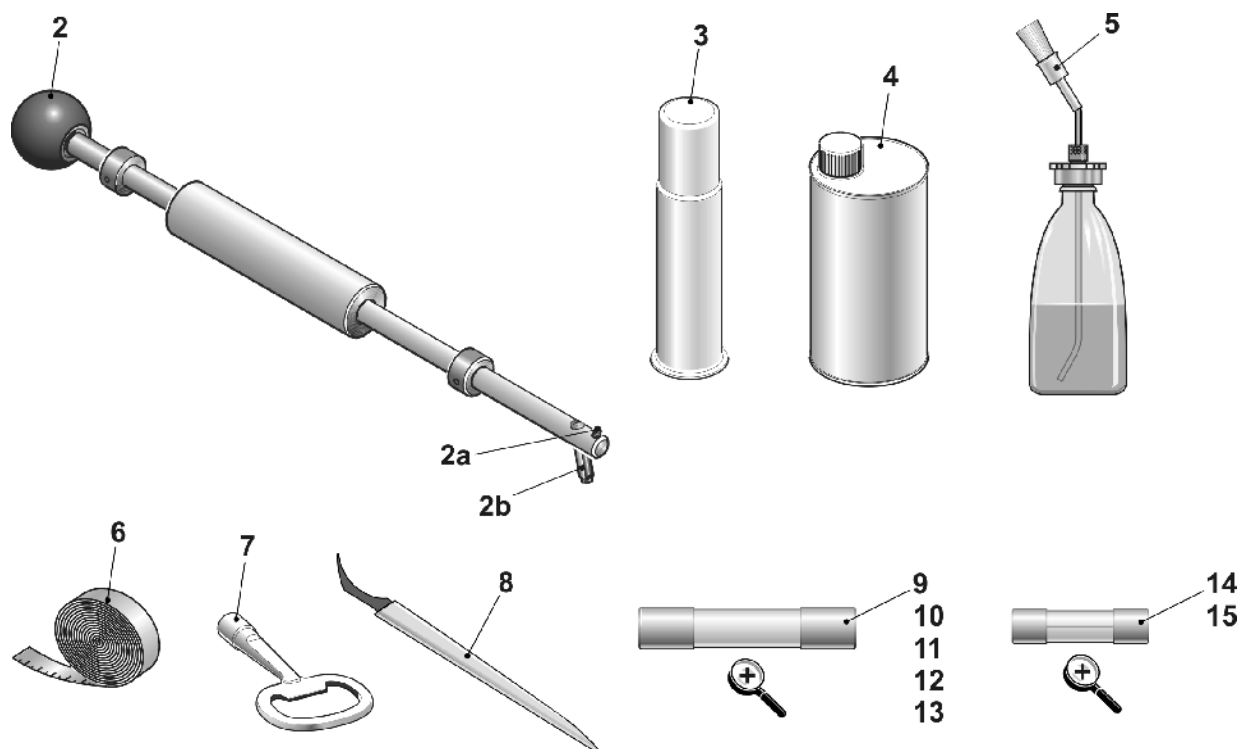
16.1 Accessories part 1 (E3,5.2 | E7.2)

Pos	Designation	Id	Pos	Designation	Id
Σ	Accessories standard part 1	265 182			
2	Extraction hook	232 027	8	Working hook	227 249
2a	Small pin	202 843	9	Fuse 3,15A T/440V 6,3x32	025 261
2b	Pin	232 022	10	Fuse 6,3A T/440V 6,3x32	026 809
3	Grease OKS 475, 150g	005 351	11	Fuse 10A T/440V 6,3x32Fuse	025 258
4	Silvertex T 46, 1l	230 614	12	Fuse 2,5A T/440V 6,3x32	217 465
5	Oil combifix	216 732	13	Fuse 1A T/440V 6,3x32	209 321
6	Measuring tape L=150cm	228 180	14	Fuse 1,6A T 5x20	008 715
7	Key of switch cabinet	009 346	15	Micro fuse F1,0A	008 748



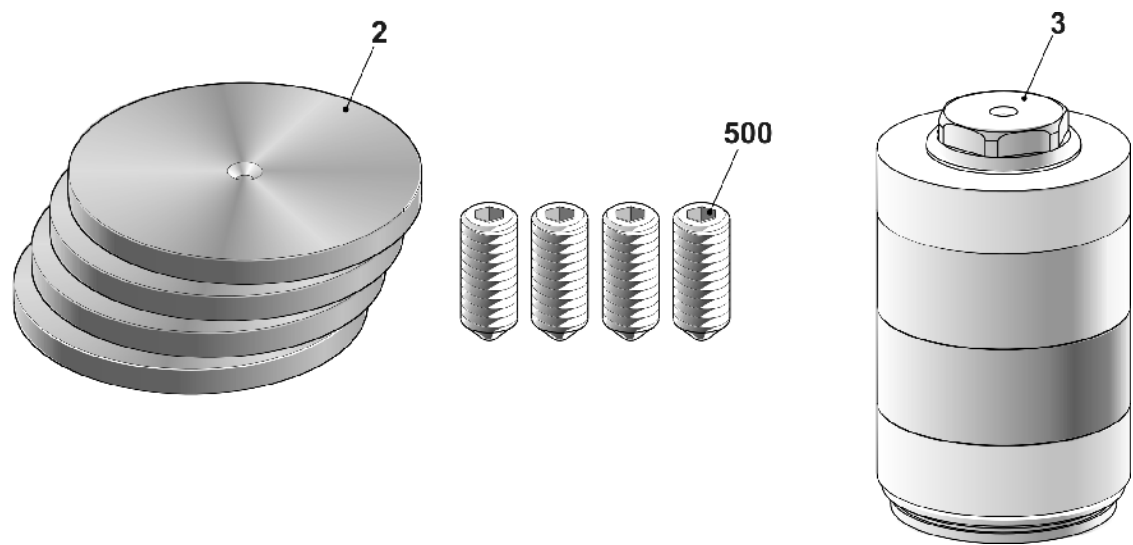
16.2 Accessories (E9.2)

Pos	Designation	Id	Pos	Designation	Id
Σ	Accessories E16-18+8.2+9.2	265 463			
2	Extraction hook	232 027	8	Working hook	227 249
2a	Small pin	202 843	9	Fuse 3,15A T/440V 6,3x32	025 261
2b	Pin	232 022	10	Fuse 6,3A T/440V 6,3x32	026 809
3	Grease OKS 475, 150g	005 351	11	Fuse 10A T/440V 6,3x32Fuse	025 258
4	Silvertex T 32, 1l	005 341	12	Fuse 2,5A T/440V 6,3x32	217 465
5	Oil combifix	216 732	13	Fuse 1A T/440V 6,3x32	209 321
6	Measuring tape L=150cm	228 180	14	Fuse 1,6A T 5x20	008 715
7	Key of switch cabinet	009 346	15	Micro fuse F1,0A	008 748

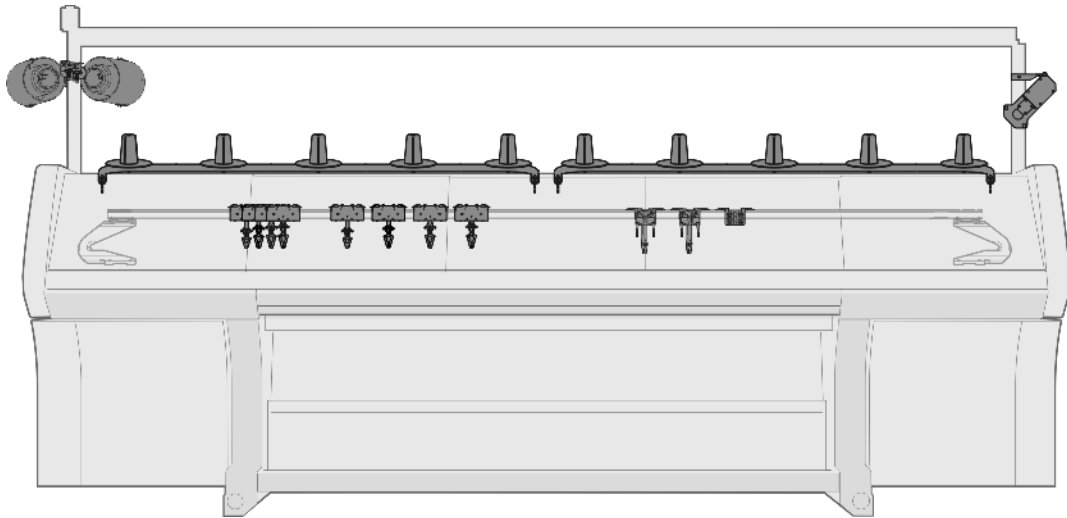


16.3 Accessories part 2

Pos	Designation	Id	Pos	Designation	Id
Σ	Accessories standard part 2	265 183	3	Signal lightLED	240 395
2	Shim	056 569	500	Setscrew M16x40	244 061

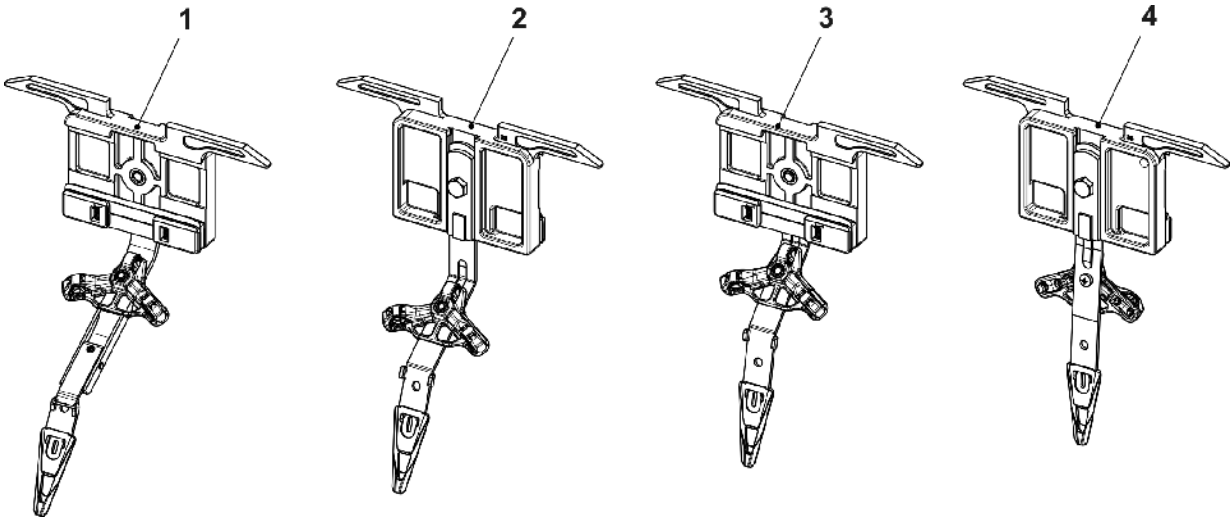


17 Special attachments



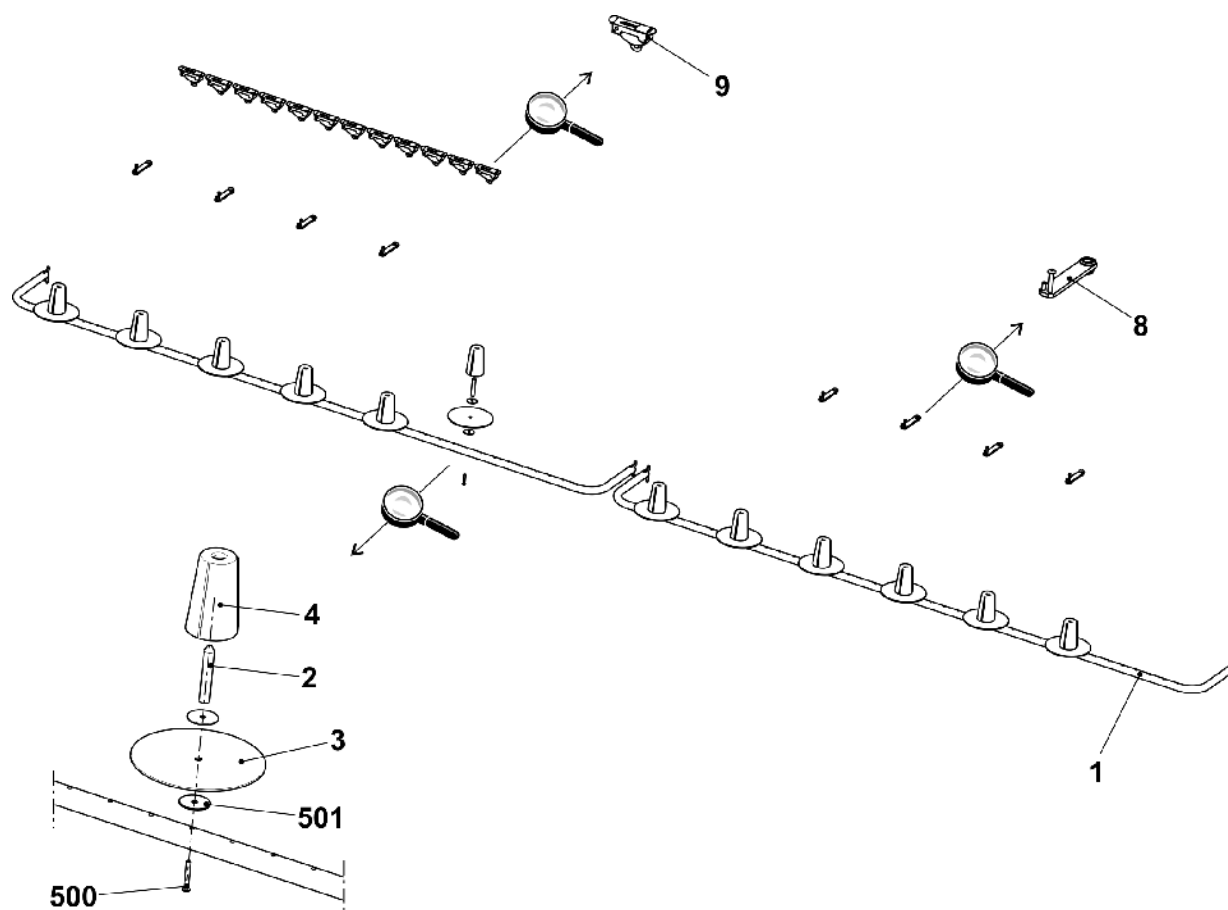
17.1 Complete yarn carriers

Pos	Designation	ID	Pos	Designation	ID
E3,5.2					
1	FF carriage 1+8 complete E5.2 X30S	256 545	3	FF carriage 3+6 complete E5.2 X30S	256 547
2	FF carriage 2+7 complete E5.2 X30S	256 546	4	FF carriage 4+5 complete E5.2 X30S	256 548
E7.2 E9.2					
1	FF carriage 1+8 complete E7.2 X30S	256 553	3	FF carriage 3+6 complete E7.2 X30S	256 555
2	FF carriage 2+7 complete E7.2 X30S	256 554	4	FF carriage 4+5 complete E7.2 X30S	256 556



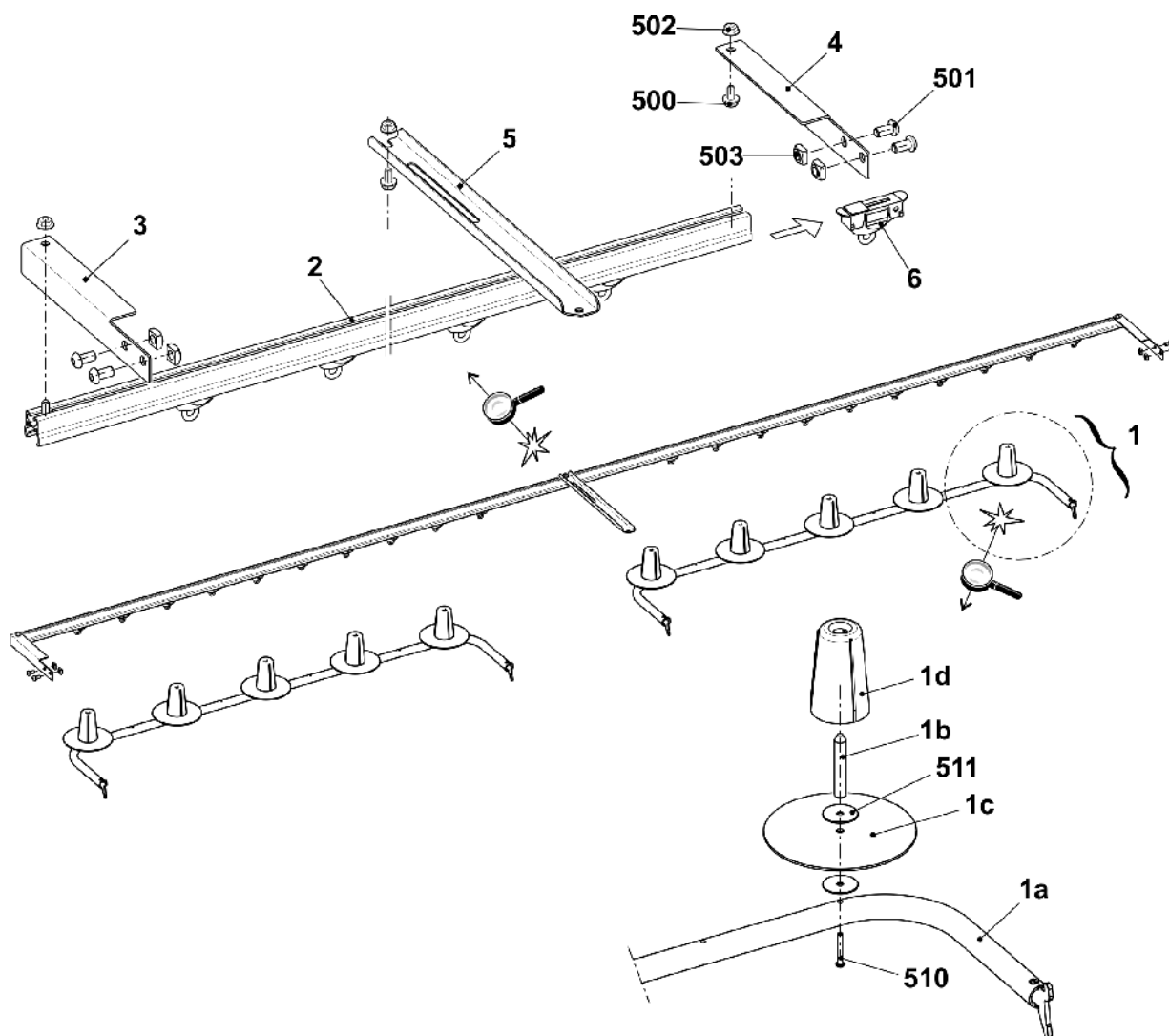
17.2 Additional board at the bottom

Pos	Designation	Id. no.	Pos	Designation	Id. no.
Σ	Additional board8XX at the bottom	253 646			
1	Additional bobbin board welded	253 472	8	Yarn guide	243 765
2	Positioning pin	202 777	9	Yarn guide bracket	241 581
3	DiskD=130	062 385	500	Pan-head screw M4x30	023 681
4	Bobbin support	200 363	501	Washer 5,3x30x1,25	023 556



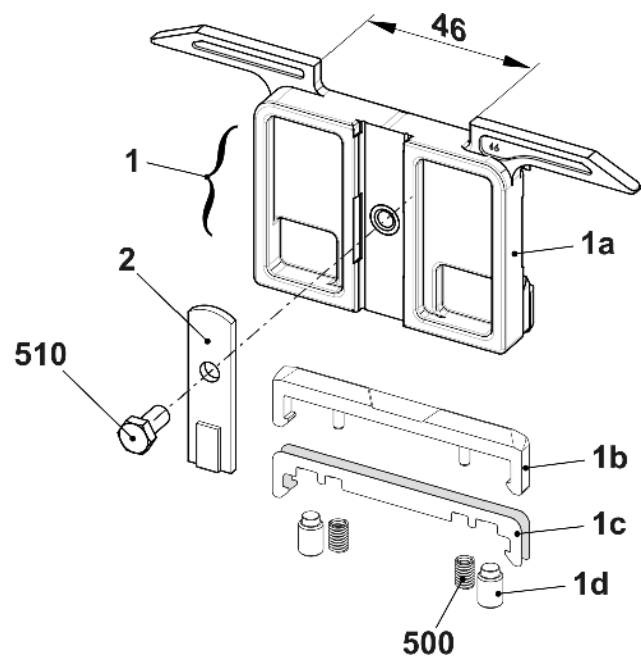
17.3 Additional board retrofit kit

Pos	Designation	Id	Pos	Designation	Id
Σ	Additional board retrofit kit 8XX	243 776			
1	Additional bobbin board 7XX/8XX	241 928	3	Support on the left	243 602
1a	Additional bobbin board welded	241 927	4	Support on the right	243 603
1b	Positioning pin	202 777	5	Straps	239 295
1c	DiskD=130	062 385	6	Yarn guide bracket complete	241 581
1d	Bobbin support	200 363	500	Self-locking screw M6x12	023 415
510	Pan-head screw M4x30	023 681	501	Pan-head screw M8x16	023 113
511	Washer 5,3x30x1,25	023 556	502	Serrated nut M6-10	023 414
2	Yarn guide bar84"	236 932	503	Square nut M8	023 269



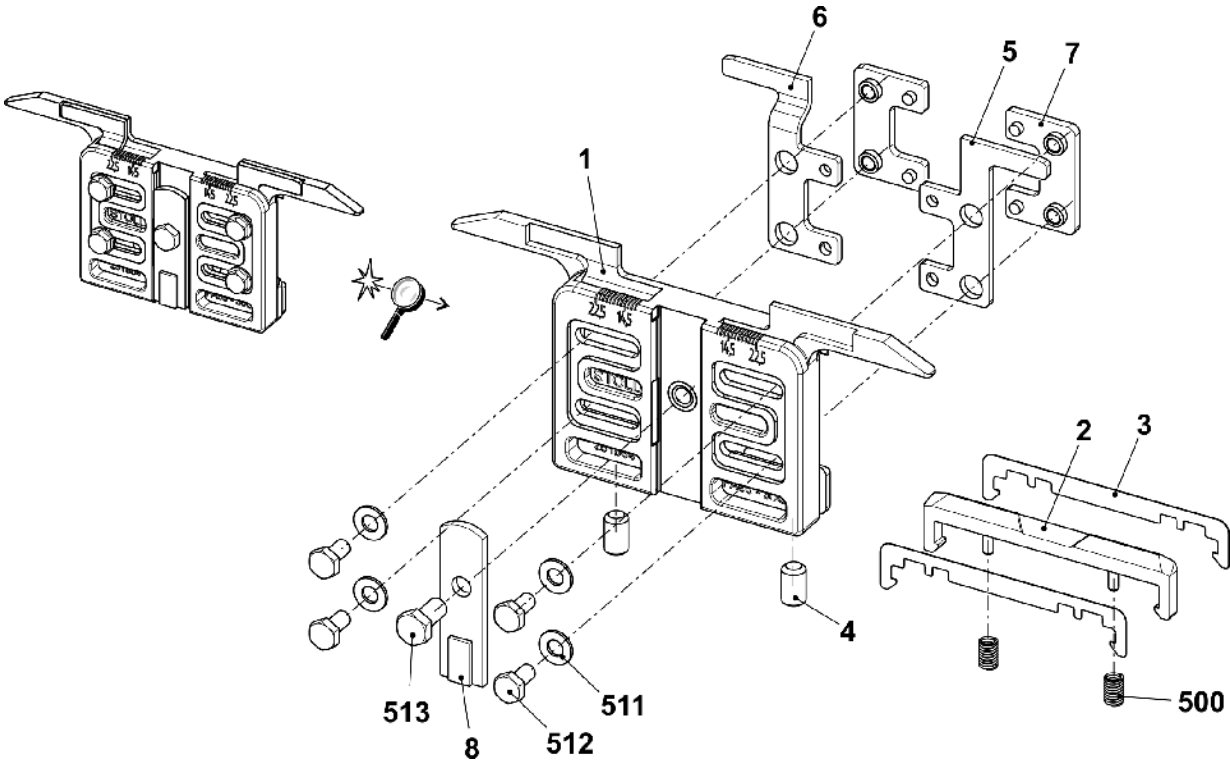
17.4 Carriage of plating yarn carrier EW 46

Pos	Designation	Id	Pos	Designation	Id
B	Plating FF carriage complete EW 46	244 998			
1	FF carriage EW 46	244 253		1d Threaded bolt	213 399
	1a FF carriage	243 881		500 Compression spring 4,0x0,55x11	021 399
	1b Sliding piece	212 583	2	Shim	213 035
	1c Shim	216 143	510	Hexagon screw M5x10	020 351



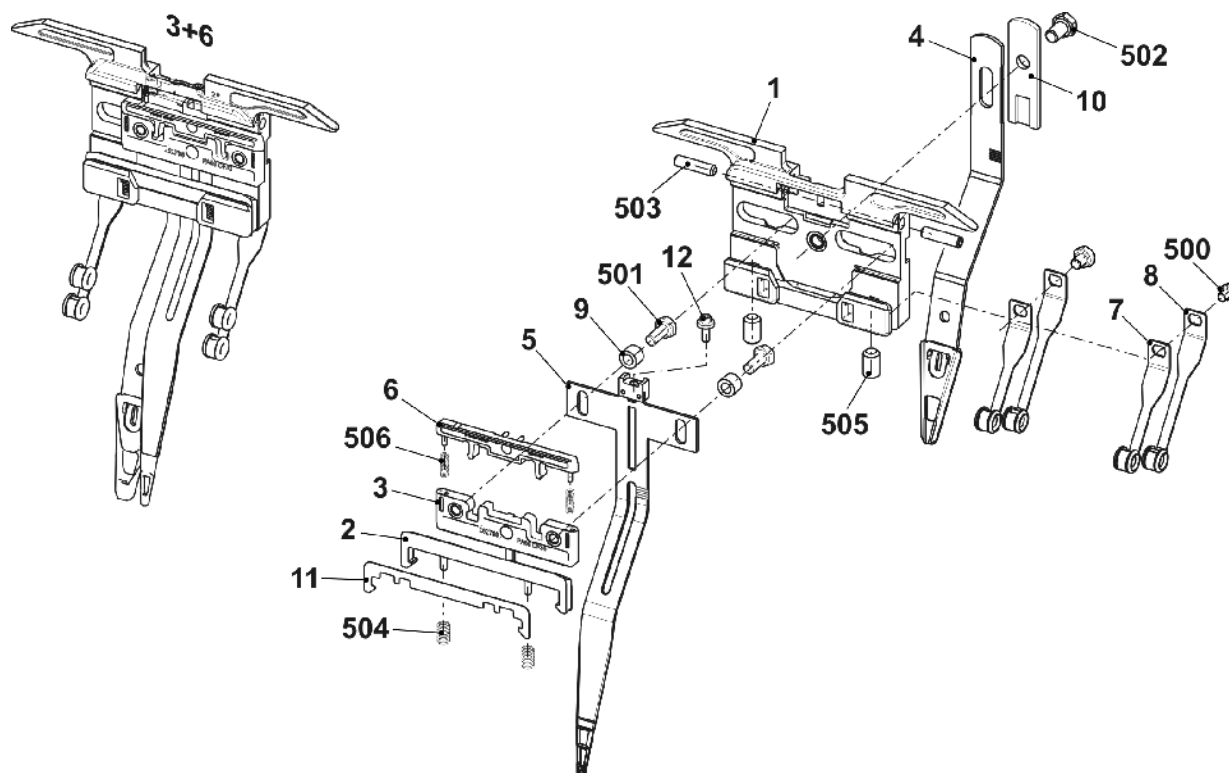
17.5 Carriage of plating yarn carrier (adjustable)

Pos	Designation	Id	Pos	Designation	Id
Σ	Plating yarn carrier carriage complete	251 867			
1	Carriage of yarn carrier	251 864	7	Guide part	253 226
2	Sliding piece	212 583	8	Shim	213 035
3	Shim	216 143	500	Compression spring	021 399
4	Threaded bolt	213 399	511	Washer 4	022 481
5	Insert on the right	251 866	512	Hexagon screwM4x8	022 461
6	Insert on the left	251 865	513	Hexagon screwM5x10	020 351



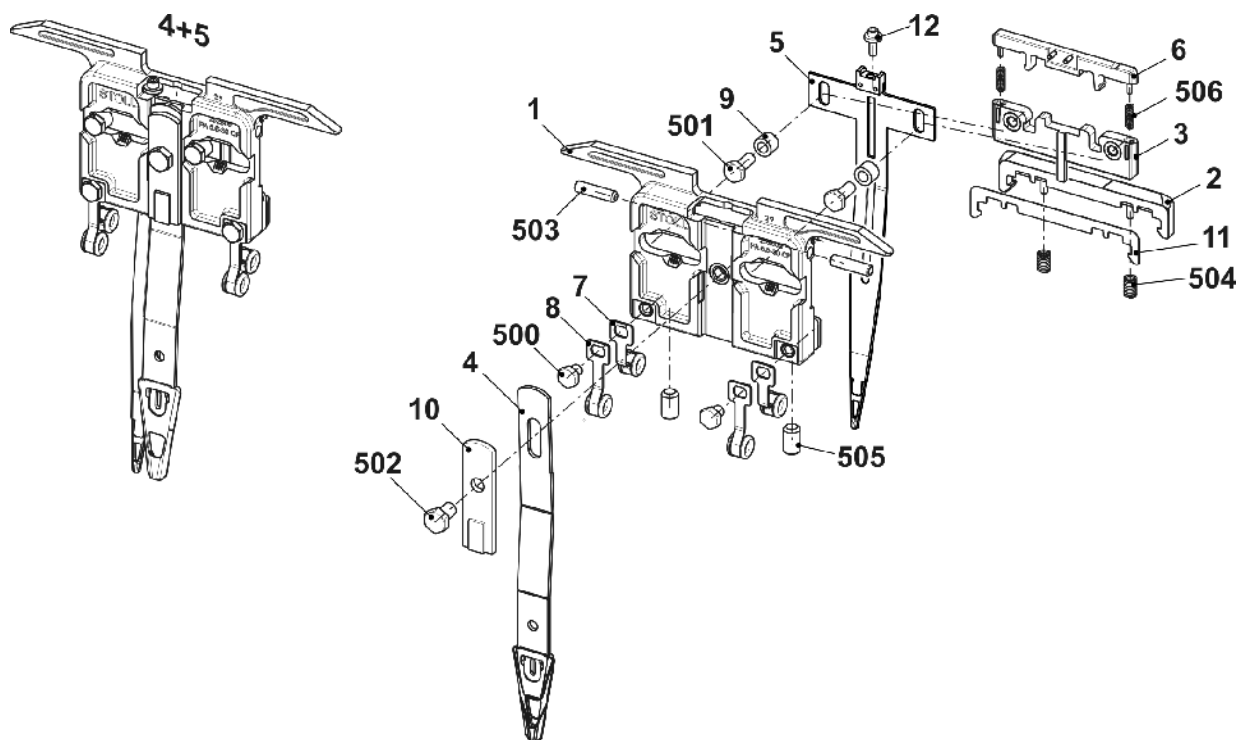
17.6 Plating yarn carrier 3+6

Pos	Designation	Id	Pos	Designation	Id
Σ	Plating yarn carrier carriage 3+6 complete				
	E6.2	252 784	6	Sliding piece	252 797
	E10 E12 E14 E7.2 E8.2 E6.2(12m.10) E12/14	252 786	7	Eyelet holder complete	252 825
	E16 E18	252 788	8	Eyelet holder complete	252 824
1	Plating yarn carrier carriage	252 806	9	Distance bushing	252 796
2	Sliding piece	212 583	10	Shim	213 035
3	Slider	252 798	11	Shim	216 143
4	Plating yarn carrier bow 3+6		12	Adjusting screw	253 436
	E6.2	252 821	500	Hexagon screw M4x5	243 779
	E10 E12 E14 E7.2 E8.2 E6.2(12m.10) E12/14	252 822	501	Hexagon screw M4x10	020 346
	E16 E18	252 823	502	Hexagon screw	252 832
5	Plating yarn carrier bow 3+6		503	Setscrew M4x16	254 196
	E6.2	272 506	504	Compression spring	021 399
	E10-E14	272 507	505	Threaded bolt	213 399
	E16-E18	272 508	506	Compression spring	253 058



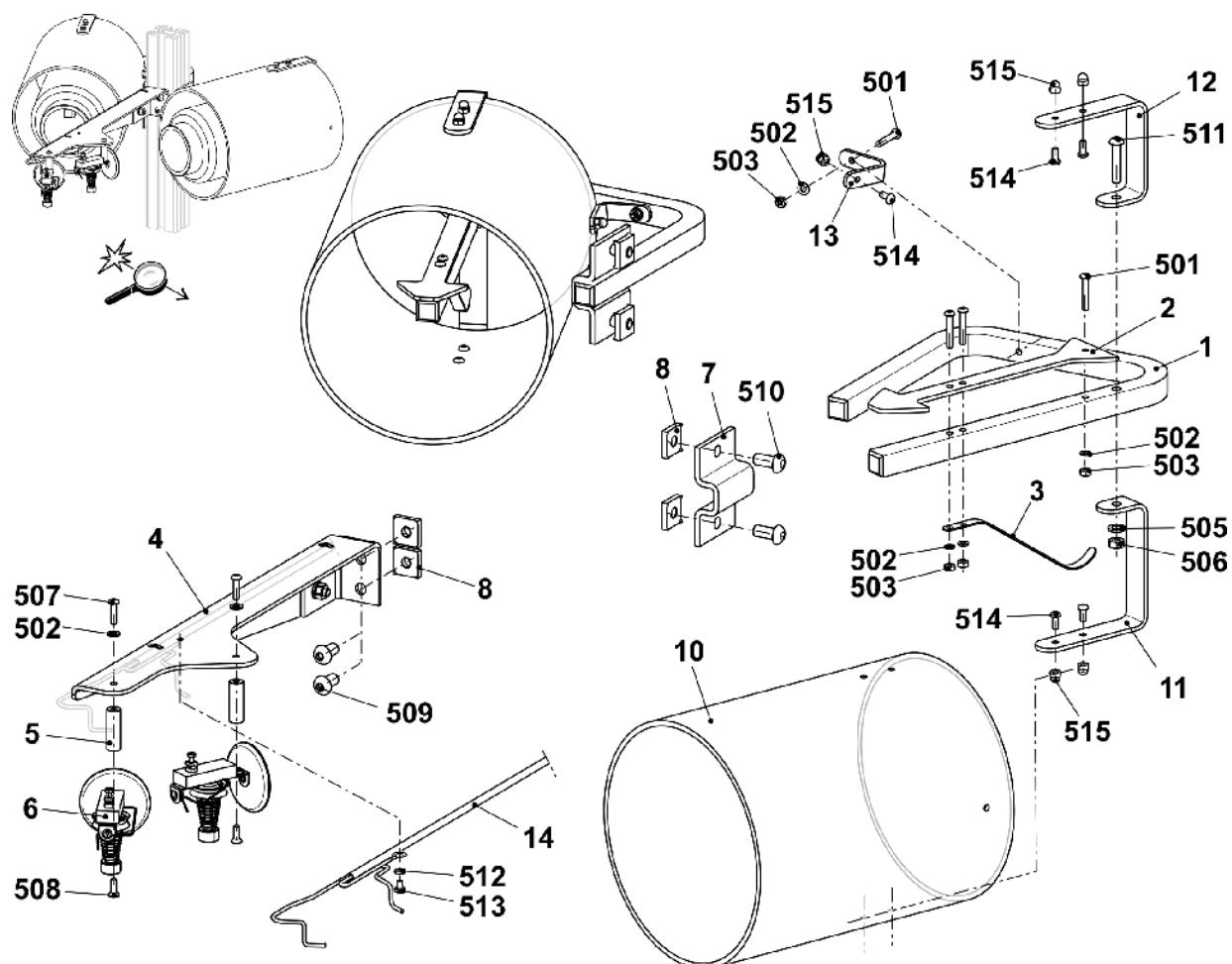
17.7 Plating yarn carrier 4+5

Pos	Designation	Id	Pos	Designation	Id
Σ	Plating yarn carrier carriage 4+5 complete				
	E6.2	252 783	6	Sliding piece	252 797
	E10 E12 E14 E7.2 E8.2 E6.2(12m. 10) E14/12	252 785	7	Eyelet holder complete	252 815
	E16 E18	252 787	8	Eyelet holder complete	252 816
1	Plating yarn carrier carriage	252 806	9	Distance bushing	252 796
2	Sliding piece	212 583	10	Shim	213 035
3	Slider	252 798	11	Shim	216 143
4	Plating yarn carrier bow 4+5		12	Adjusting screw	253 436
	E6.2	252 791	500	Hexagon screw M4x5	243 779
	E10 E12 E14 E7.2 E8.2 E6.2(12m. 10) E14/12	252 792	501	Hexagon screw M4x10	020 346
	E16 E18	252 793	502	Hexagon screw	252 832
5	Plating yarn carrier bow 4+5		503	Setscrew M4x16	254 196
	E6.2	272 496	504	Compression spring	021 399
	E10-E14	272 497	505	Threaded bolt	213 399
	E16-E18	272 498	506	Compression spring	253 058



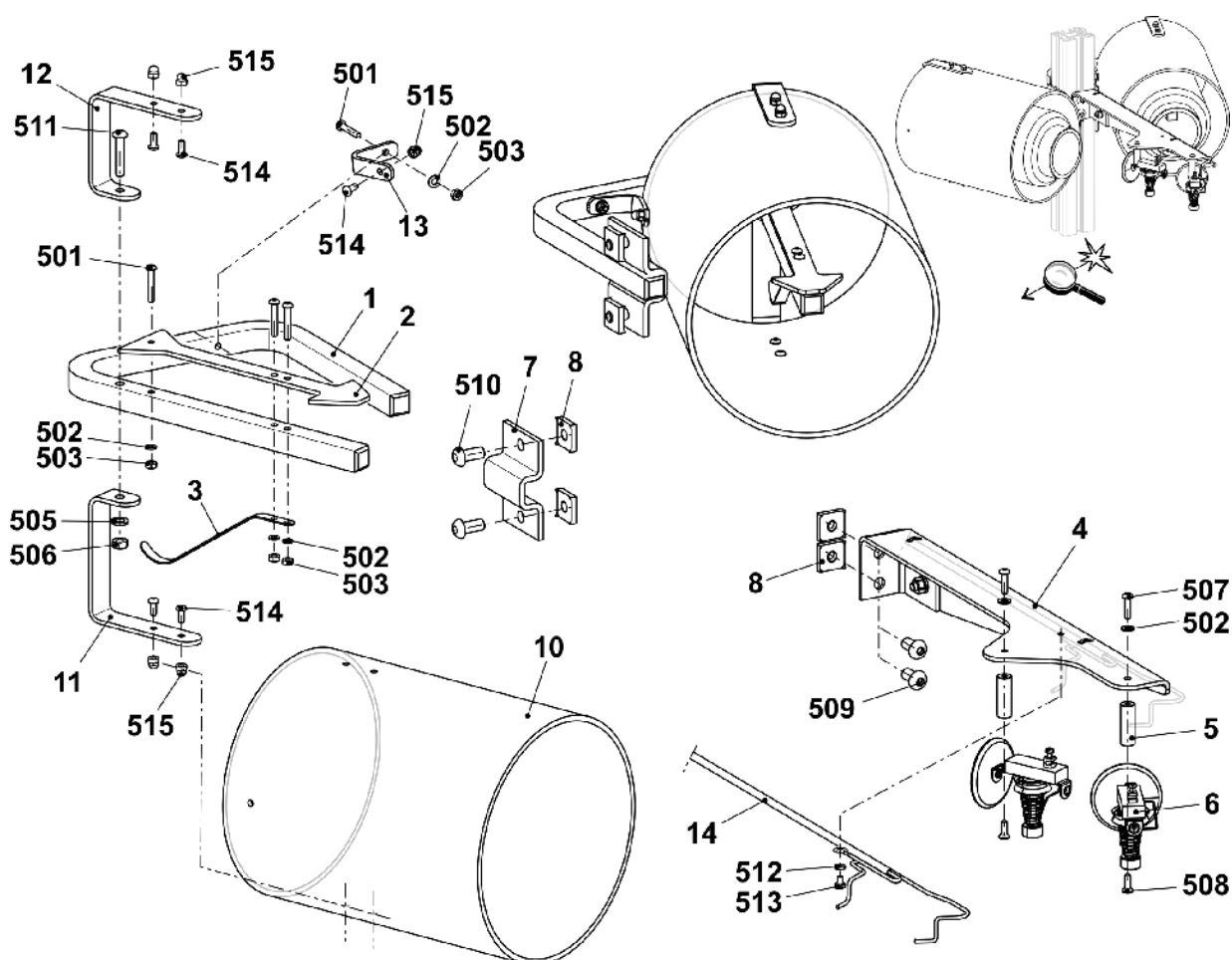
17.8 Bobbin holder on the left

Pos	Designation	ID	Pos	Designation	ID
Σ	Bobbin holder on the left	253 965	501	Pan-head screw M4x25	023 511
1	Support	253 969	502	Washer 4	022 481
2	Support	252 769	503	Hexagon nut M4-6	022 536
3	Leaf spring	253 350	505	Washer 6	022 431
4	Support on the left	253 347	506	Hexagon nut M6-6	022 899
5	Spacer	253 349	507	Pan-head screw M4x16	023 412
6	Yarn detector Massardi	226 964	508	Pan-head screw M4x12	023 062
7	Clamp	228 583	509	Pan-head screw M8x16	023 113
8	Slot nut	228 851	510	Pan-head screw M8x18	251 331
10	Cover	253 968	511	Pan-head screw M6x30	023 451
11	Holding angle	253 964	512	Serrated lock washer A4,3	022 482
12	Holding angle	253 963	513	Pan-head screw M4x6	022 946
13	Holding angle	253 967	514	Pan-head screw M4x10	023 450
14	Cable plating	253 468	515	Cap nut M4-6	253 805



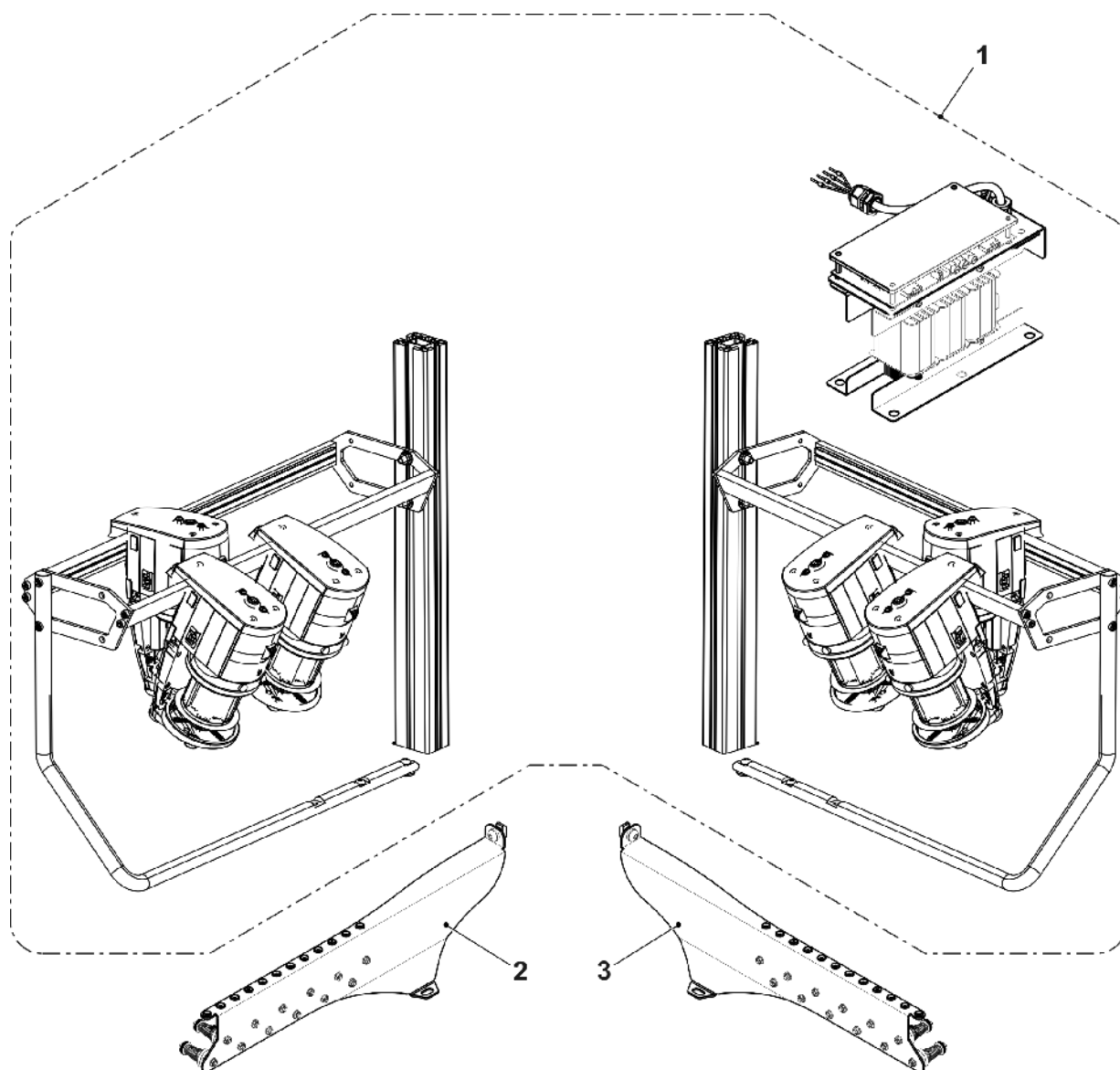
17.9 Bobbin holder on the right

Pos	Designation	ID	Pos	Designation	ID
Σ	Bobbin holder on the right	253 966	501	Pan-head screw M4x25	023 511
1	Support	253 969	502	Washer 4	022 481
2	Support	252 769	503	Hexagon nut M4-6	022 536
3	Leaf spring	253 350	505	Washer 6	022 431
4	Support right	253 348	506	Hexagon nut M6-6	022 899
5	Spacer	253 349	507	Pan-head screw M4x16	023 412
6	Yarn detector Massardi	226 964	508	Pan-head screw M4x12	023 062
7	Clamp	228 583	509	Pan-head screw M8x16	023 113
8	Slot nut	228 851	510	Pan-head screw M8x18	251 331
10	Cover	253 968	511	Pan-head screw M6x30	023 451
11	Holding angle	253 964	512	Serrated lock washer A4,3	022 482
12	Holding angle	253 963	513	Pan-head screw M4x6	022 946
13	Holding angle	253 967	514	Pan-head screw M4x10	023 450
14	Cable plating	253 468	515	Cap nut M4-6	253 805



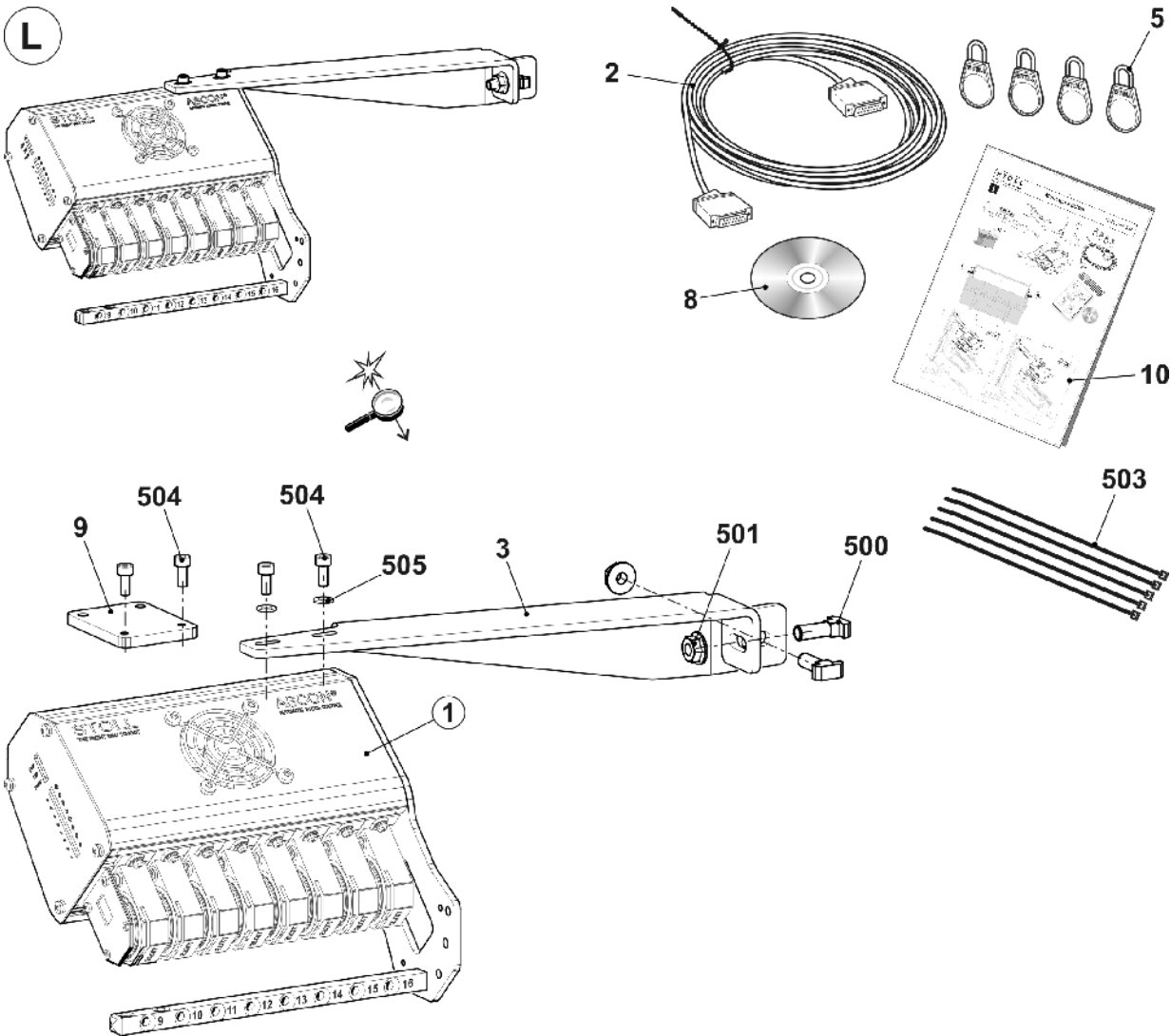
17.10 Storage feed wheel VECTOR

Pos	Designation	ID	Note
Σ	Storage feed wheel Vector complete E3-8	265 749	Please order the spare parts at: L.G.L. Electronics S.p.A. Via Foscolo, 156 24024 Gandino (BG) Italy Phone: +39 035 733408 Fax: +39 035 733146 The item no. and the designation for the spare parts can be found in the enclosed assembling instruc- tions of the company L.G.L. Electronics S.p.A.
	Storage feed wheel Vector complete E10-18	265 750	
1	Assembly kit Vector complete	262 370	
2	Stopping device on the left complete E3-8	265 574	
	Stopping device on the left complete E10-18	265 570	
3	Stopping device on the right complete E3-8	265 575	
	Stopping device on the right complete E10-18	265 571	



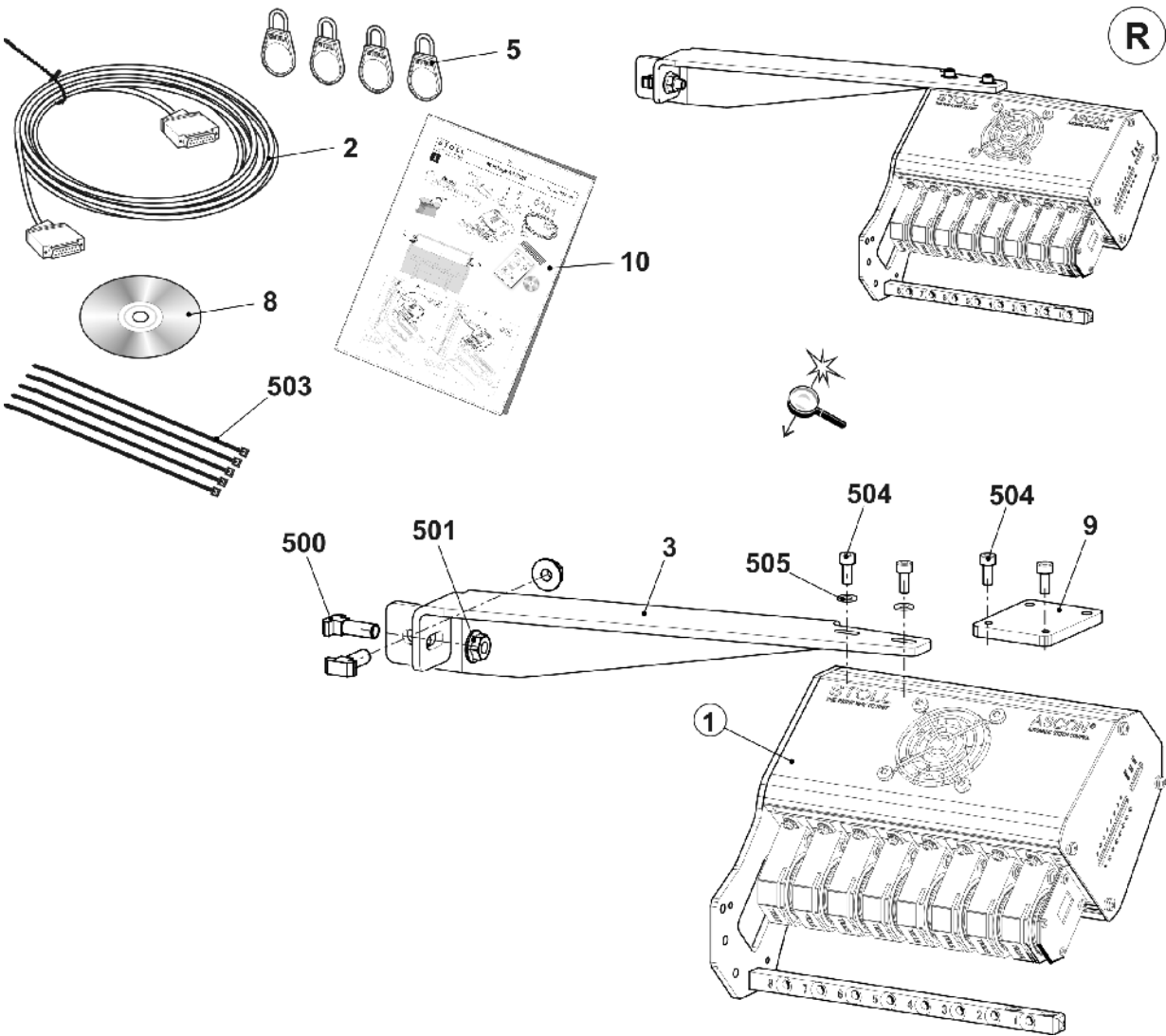
17.11 Yarn length measuring device on the left complete

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn length measuring device on the left complete	265 391			
1	Yarn length measuring device on the left complete	257 283	10	Operating instructions of ASCON assembly	266 069
2	Cable ASCON	257 239	500	T-head bolt M8x25	022 866
3	Support on the left	265 046	501	Serrated nut M8-10	023 026
5	Adjustment weight	212 241	503	Cable tape 302x4,8	008 642
8	DVD with operating instructions	258 391	504	Cap screw M5x12	020 132
9	Holding plate	258 386	505	Washer 5	020 871



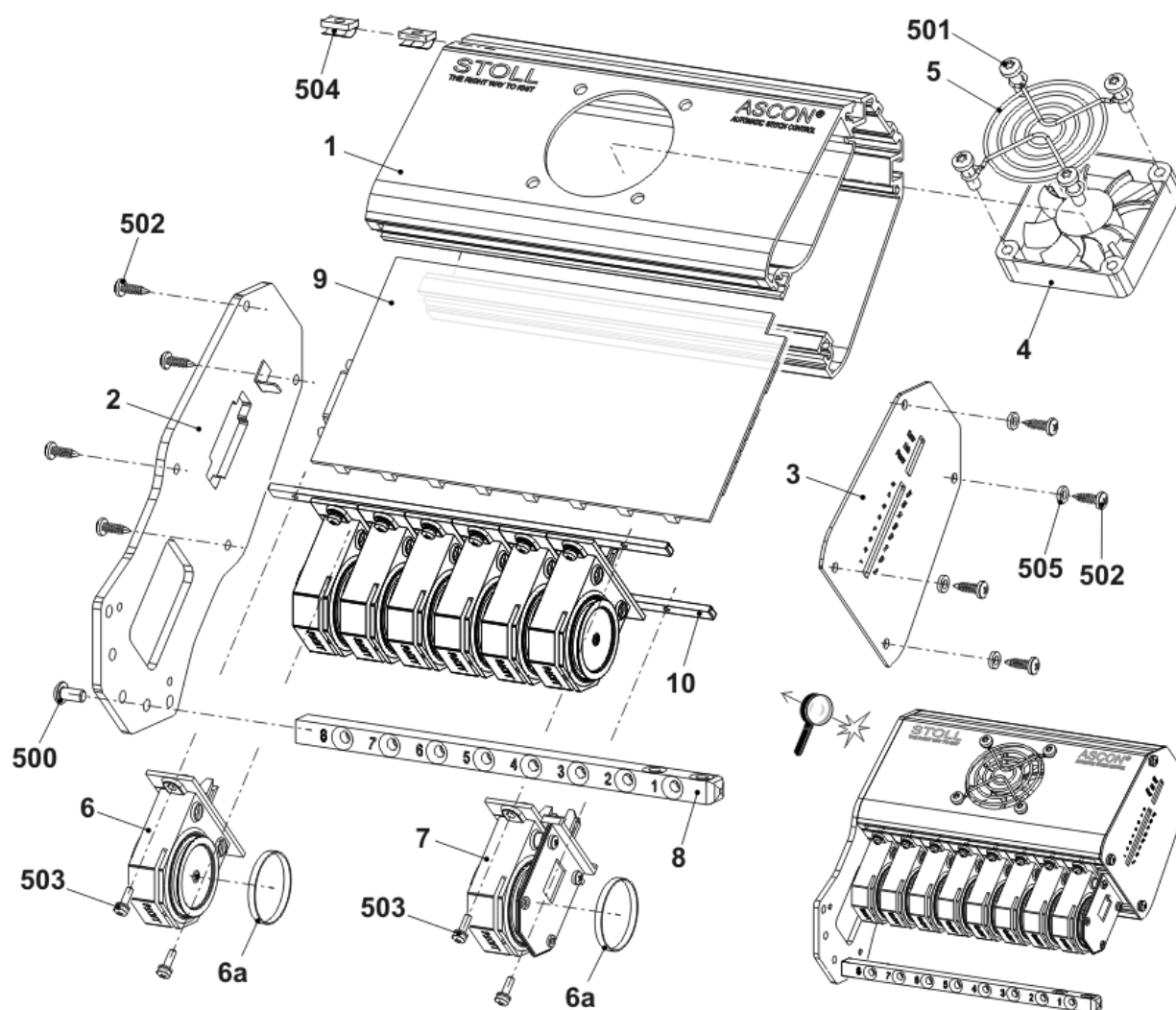
17.12 Yarn length measuring device on the right complete

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn length measuring device on the right complete	265 392			
1	Yarn length measuring device on the right complete	257 282	10	Operating instructions of ASCON assembly	266 069
2	Cable ASCON	257 239	500	T-head bolt M8x25	022 866
3	Support right	265 045	501	Serrated nut M8-10	023 026
5	Adjustment weight	212 241	503	Cable tape 302x4,8	008 642
8	DVD with operating instructions	258 391	504	Cap screw M5x12	020 132
9	Holding plate	258 386	505	Washer 5	020 871



17.12.1 Yarn length measuring device on the right

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn length measuring device on the right complete	257 282	8	Yarn guide rod	257 139
1	Housing	257 281	9	Card Ascon	255 000
2	Support	257 278	10	Threaded strip	257 138
3	Cover	257 273	500	Pan-head screw M5x10	023 247
4	Fan with plug	257 048	501	Screw 50x15	251 728
5	Protective grid fan Servo5	229 142	502	Sheet metal screw ST3,5x13	022 940
6	Sensor	211 354	503	Oval head screw with washer M3x10	023 380
6a	Rubber running ring	258 582	504	Spring nut M5	022 873
7	Sensor complete	212 406	505	Serrated lock washer J3,7	022 554



17.13 Adjusting plates, Device needle bed complete

Pos	Designation	Id	Pos	Designation	Id
Σ1	Yarn carrier adjusting plate set	266 736			
12	Adjusting plate E16-18	265 064	17	Adjusting plate V 0,25	267 253
13	Adjusting plate E3-4	265 061	18	Adjusting plate V 0,5	258 199
14	Adjusting plate E10-14	265 063	19	Adjusting plate V 1	258 200
15	Adjusting plate E2,5.2-8	265 062	20	Adjusting plate V 1,5	258 201
Σ2	Device needle bed complete	263 625			

