

Hydraulic vehicle lift

ST 4120



List of parts and appendices





**List of parts and appendices for the 12 ton Stertil-Koni
hydraulic vehicle lift**

ST 4120

Starting at Serial Number:

TY135442

A

List of parts and appendices

The following sections will give an overview of the main assemblies and their components:

- A.1 'Summary vehicle lift' on page 4,
- A.2 'Posts 1 to 4' on page 6
- A.3 'Console' on page 8,
- A.4 'Hydraulic components' on page 10,
- A.5 'Hydraulic scheme' on page 12,
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- A.7 'Control box' on page 14,
- A.8 'Label locations' on page 17,
- A.9 'Dimensional drawing' on page 18.

A.1 Summary vehicle lift

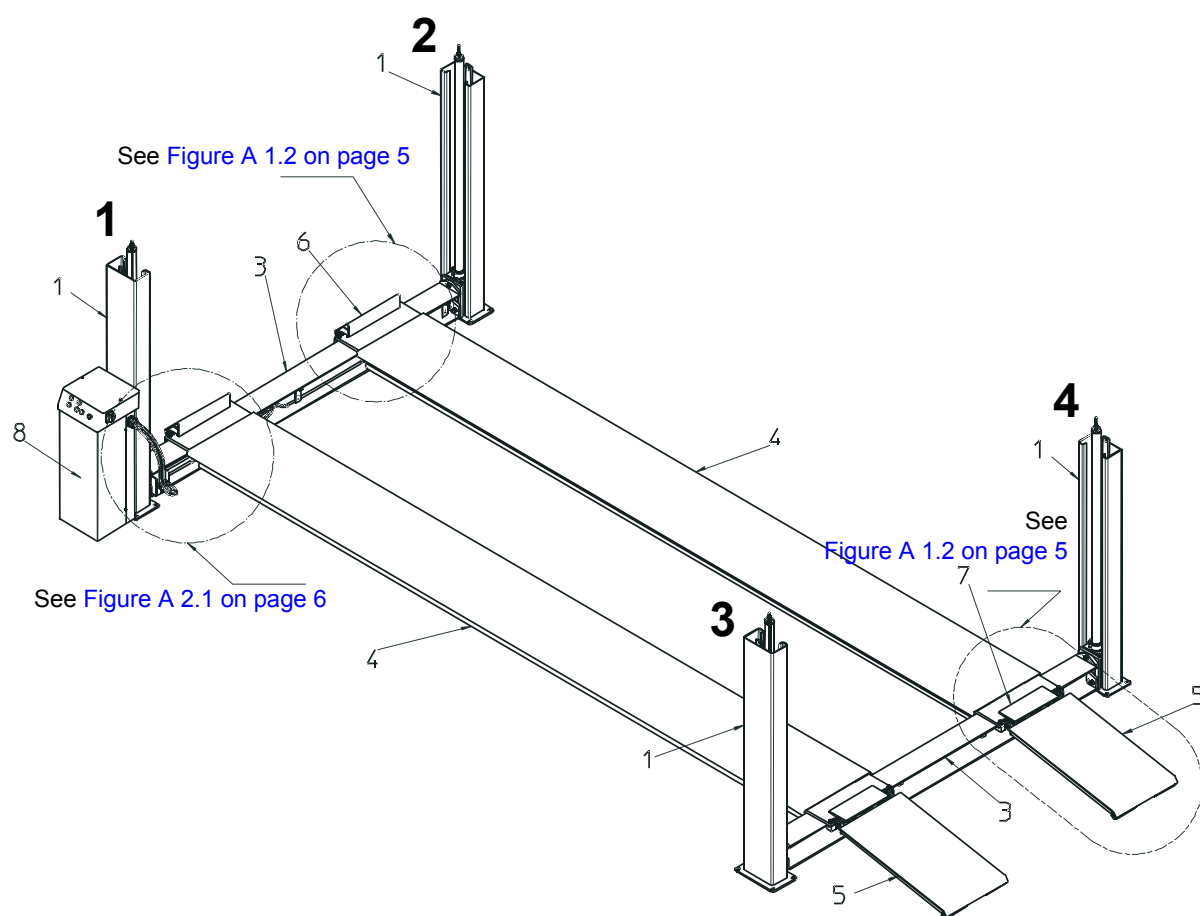


Figure A 1.1 Summary vehicle lift (1)

Table A 1.1 Vehicle lift

Index	No.	Reference	Description	Remarks
1	2	See Figure A 2.1	Post	
3	2	41202050	Crossbeam	
4	2	41203050	Track 8m	
4	2	41213050	Track 6,2m	
4	2	41223050	Track 4,5m	
5	2	41204000	Drive-on ramp assy	
6	2	41204150	Wheel stop	
7	2	41204100	Stop plate	
8	1	See Figure A 3.1	Console	
9	8	41203001	Clamp	
10	1	41202001	Bracket	
11	8	65003532	Bolt M16x50	
12	12	65003530	Bolt M16x40	Tightening torque 220 Nm
13	12	65002534	Bolt M16x60	
14	20	65055024	Washer M16	
15	12	65051040	Self-locking nut M16	
16	1	41202010	Bracket	
17	3	65012282	Bolt. M6x10	
18	3	65055015	Washer M6	
19	2	66201094	Cap	
20	2	37003501	Slide plate	
21	6	68990016	Tube clamp	
22	10	65212291	Bolt M6x30	

Table A 1.1 Vehicle lift

Index	No.	Reference	Description	Remarks
23	2	41204050	Drive-on ramp	
24	2	3621.14.02.00	Axle	
25	4	1024.38.00.12	Roller	
26	8	41204001	Slide block	
27	4	1038.34.01.00	Circlip with cap 10 mm	
28	1	43599012	Set chemical anchors with shims	

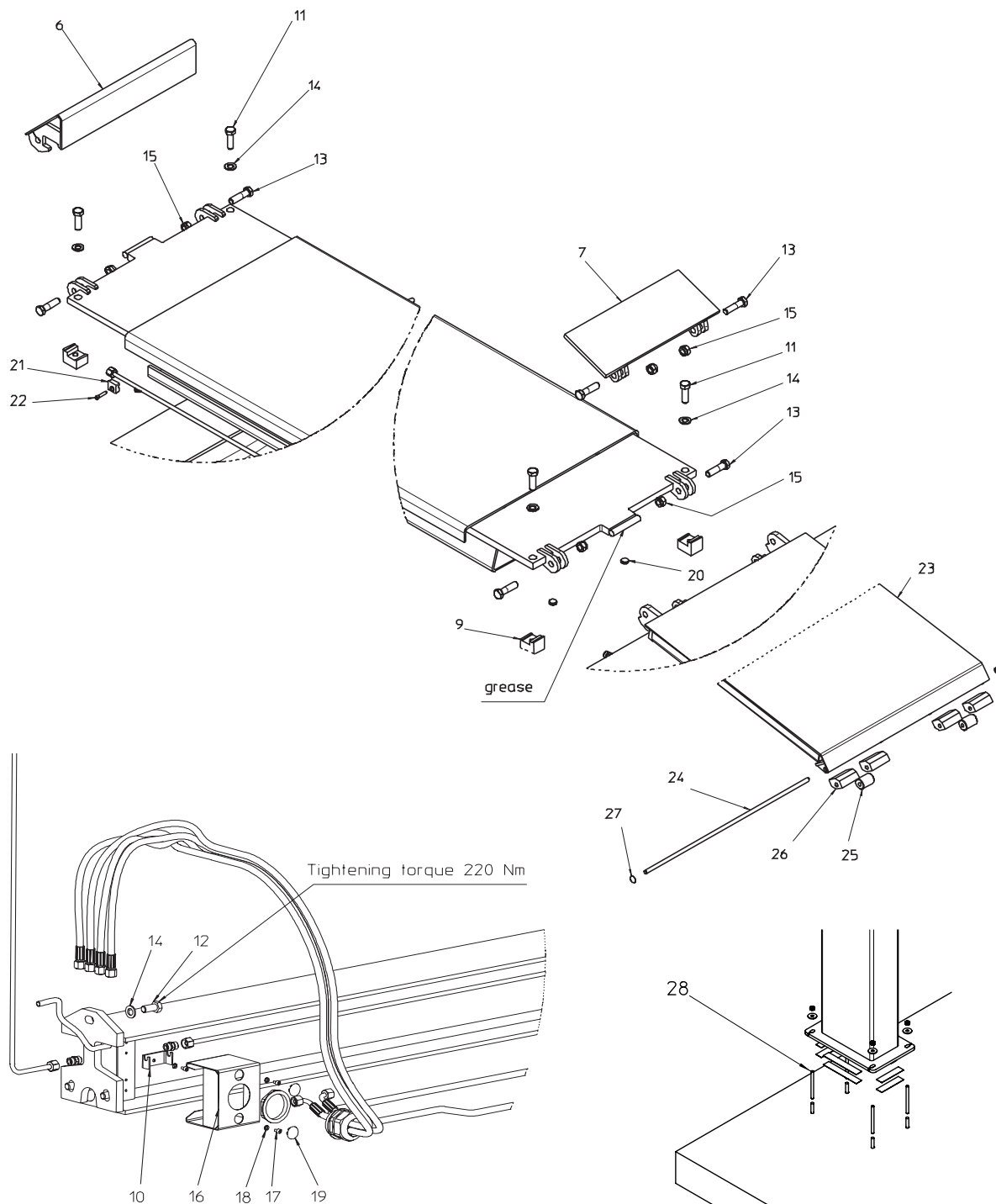


Figure A 1.2 Summary vehicle lift (2)

A.2 Posts 1 to 4

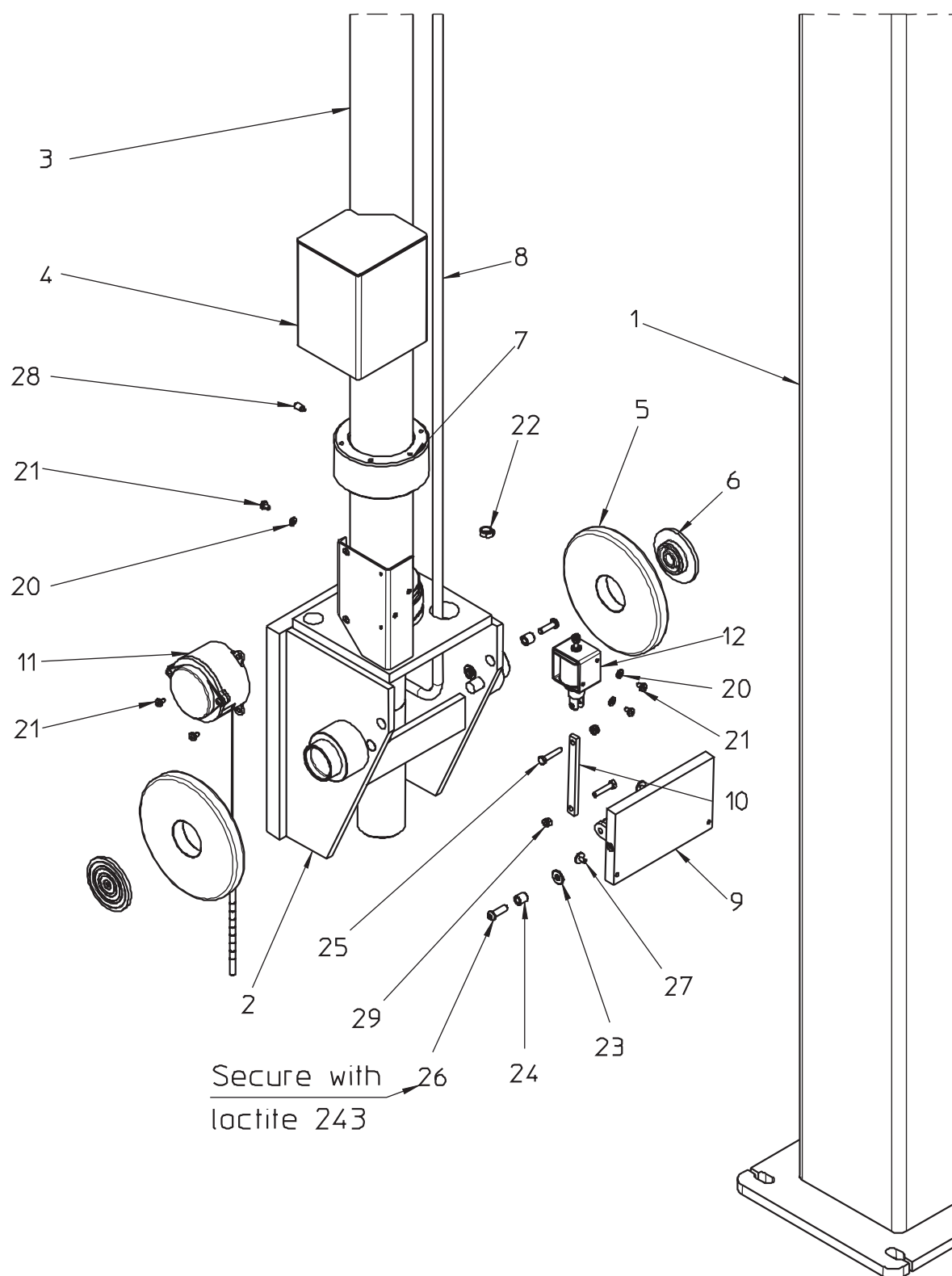


Figure A 2.1 Posts 1 to 4

Table A 2.1 Posts 1 to 4

Index	No.	Reference	Description	Remarks
1	4	41201050	Post	
2	4	41202150	Connecting piece	
3	4	See Figure A 6.1	Hydraulic cylinder	
4	4	41201020	Cover potentiometer	
5	8	33501011	Roller	
6	8	1020.50.00.35	Slide plate	
7	4	41201001	Special nut	
8	2	41206150	Oil pipe post 1/4	
8	2	41206160	Oil pipe post 2/3	
9	4	41201150	Pawl	
10	4	41201004	Pull bar	
11	4	30007400	Potentiometer unit	
12	4	69451420	Solenoid	
20	12	65055013	Washer M4	
21	12	65034215	Screw M4x6	
22	4	66201114	Hose clamp plastic Ø10	
23	8	66201108	Insulating bush plastic	
24	8	66201107	Bush plastic 6,2-10-10	
25	8	1035.38.03.54	Bolt M5x25	
26	8	65212291	Bolt M6x30	Secure with loctite 243. Remove loose grinded loctite before applying new product.
27	8	66201085	Plug plastic	
28	4	65025105	Screw M6x12	
29	8	65051026	Self-locking nut M5	

A.3 Console

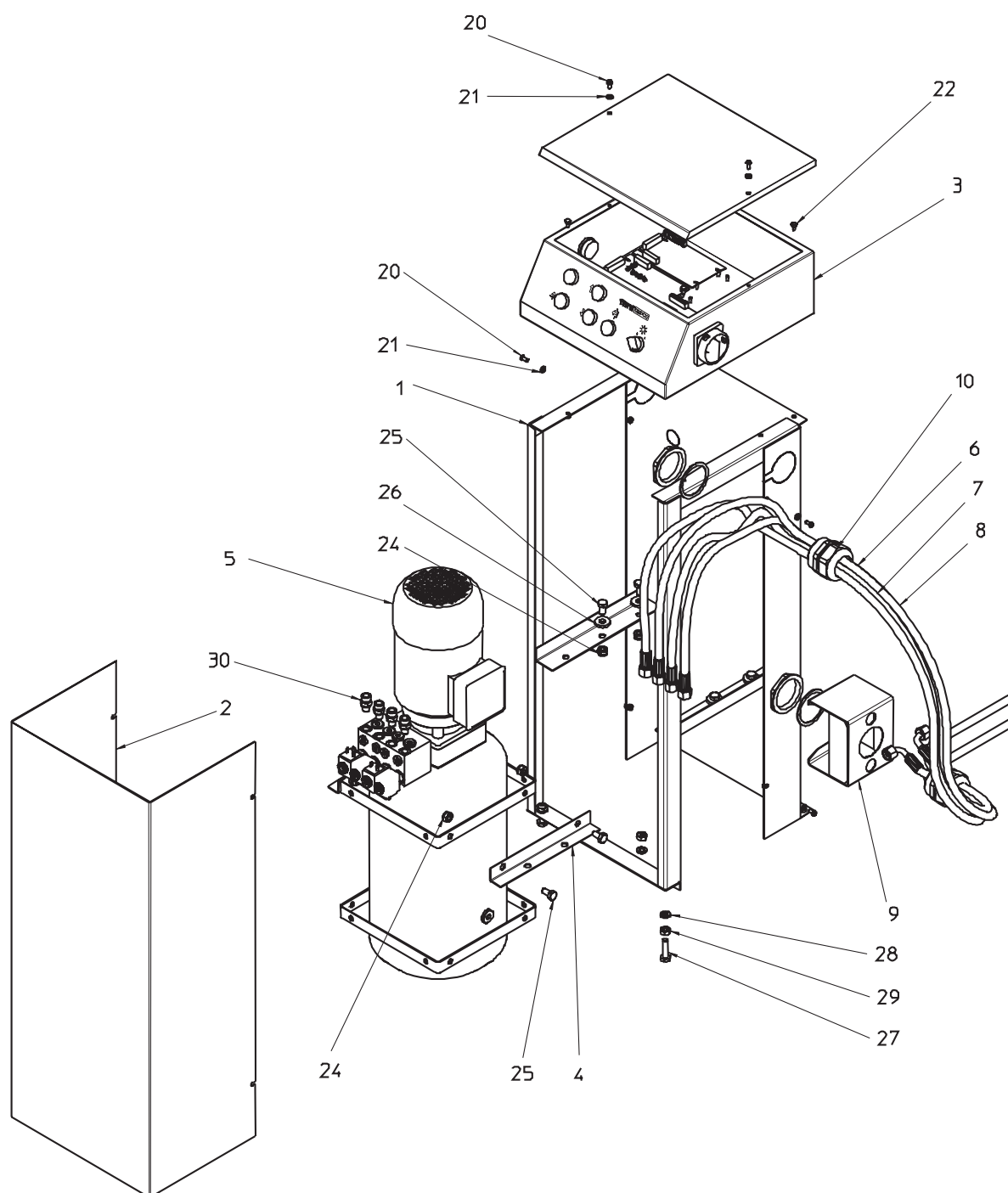


Figure A 3.1 Console

Table A 3.1 Console

Index	No.	Reference	Description	Remarks
	1	41207000	Control console	3x230/400V 50Hz
	1	41207010	Control console	1x230V 50Hz
1	1	41207050	Frame console	
2	1	41207062	Cover	
3	1	See Figure A 7.2	Control box	
4	2	41207061	Bracket	
5	1	See Figure A 4.1	Hydraulic unit	
6	2	See Figure A 4.1	Hydraulic hose post 1 and 2	
7	1	See Figure A 4.1	Hydraulic hose post 3	
8	1	See Figure A 4.1	Hydraulic hose post 4	
9	1	41202010	Bracket	
10	2	69062080	Cable gland M63	
20	4	65025005	Screw M6x12	
21	4	65055015	Washer M6	
22	4	1035.38.04.11	Screw M6x10	
23	4	65051028	Self-locking nut M6	
24	8	65051034	Self-locking nut M10	
25	8	65003403	Bolt M10x20	
26	4	02400008	Spacer	
27	2	65003409	Bolt M10x40	
28	4	65055019	Washer M10	
29	4	65050134	Nut M10	
30	4	68700451	Straight adaptor GE 10-PS/R1/4	

A.4 Hydraulic components

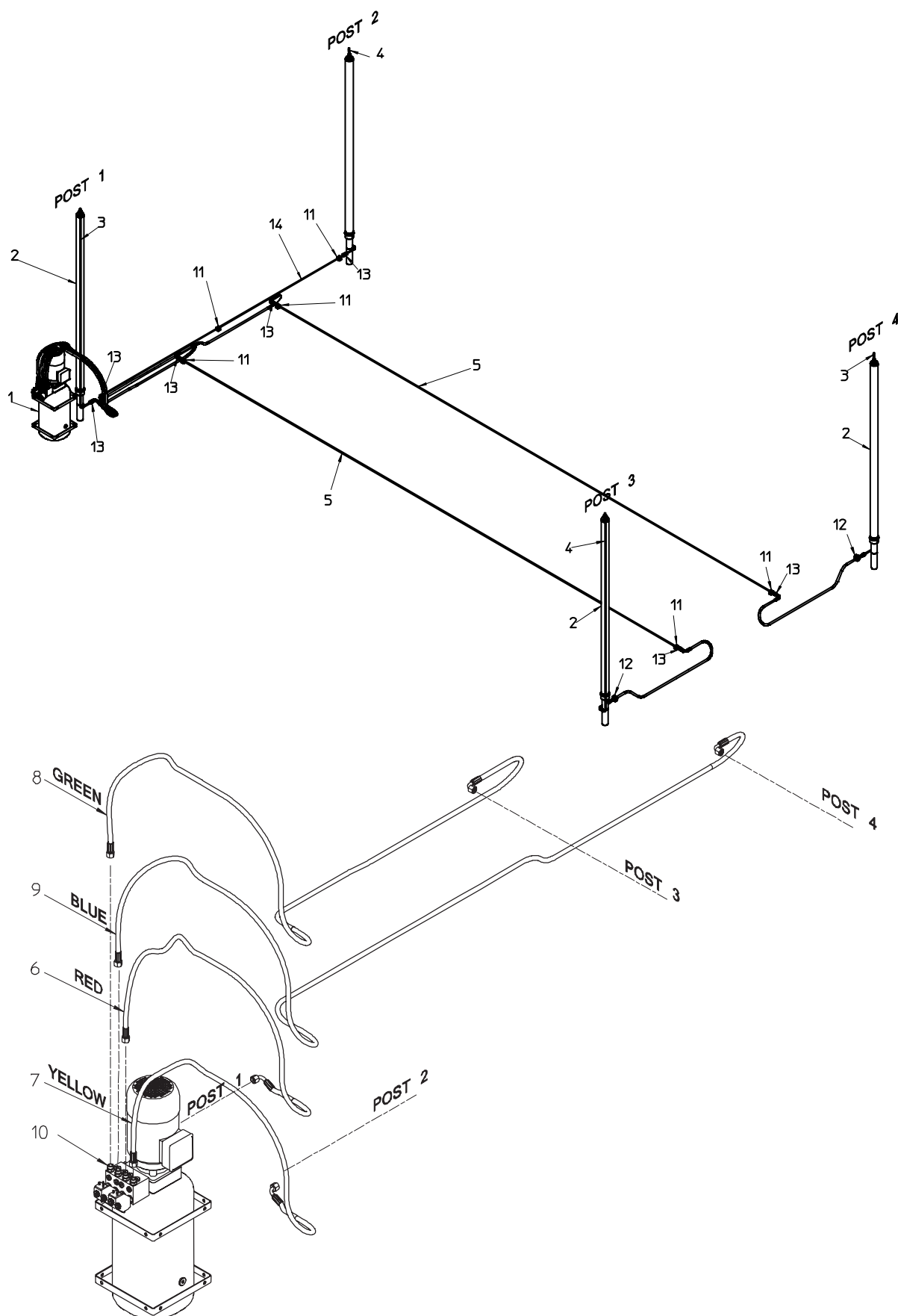


Figure A 4.1 Hydraulic components (1)

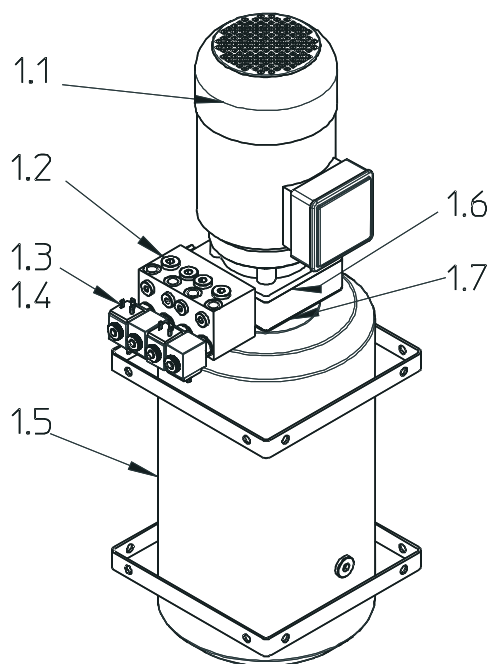
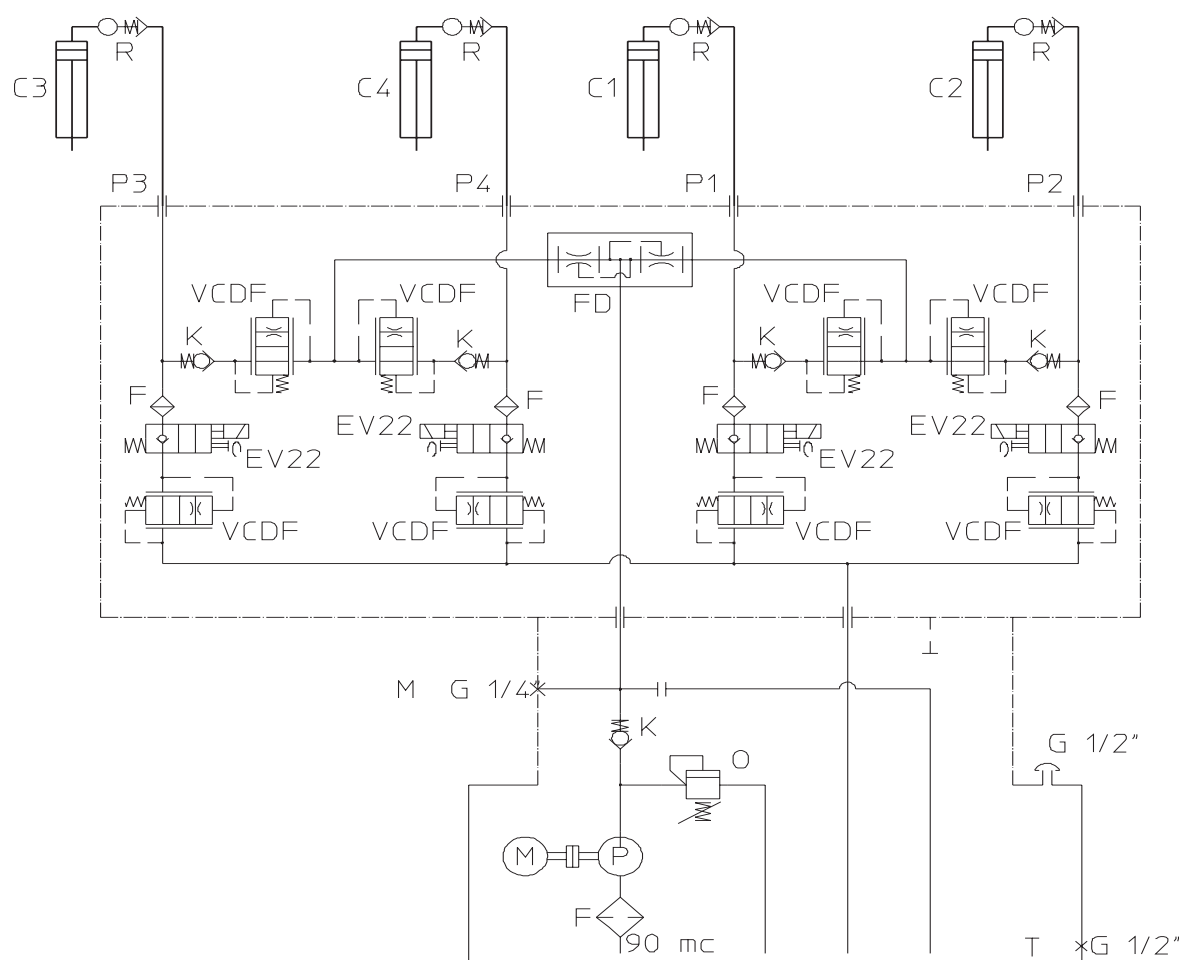


Figure A 4.2 Hydraulic components (2)

Table A 4.1 Hydraulic components

Index	No.	Reference	Description	Remarks
1	1	68031026	Hydraulic unit	3x230/400V 50Hz 260 Bar
1.1	1	68039022	Electric motor	3x230/400 50 Hz 3 kW 2770 rpm
1.2	8		Flow control valve 2.5 l/min	
1.3	4	68308005	2/2 valve NC	
1.4	4	69481501	Solenoid 24 VDC	
1.5	1	68039021	Tank 18 l (4.8 gallon)	
1.6	1		Pump 3.7 cc	
2	4	See Figure A 6.1	Hydraulic cylinder	
3	2	41206150	Oil pipe post 1 and 4	
4	2	41206160	Oil pipe post 2 and 3	
5	2	41206171+ 41206172	Oil pipe track 8m	L= 6000+1713
5	2	41216171	Oil pipe track 6.2m	L= 5930
5	2	41226171	Oil pipe track 4.5m	L= 4230
6	1	41206120	Hydraulic hose unit to post 1	L=1800 (red marked)
7	1	41206125	Hydraulic hose unit to post 2	L=1800 (yellow marked)
8	1	41206140	Hydraulic hose unit to post 3	L=3400 (green marked)
9	1	41206130	Hydraulic hose unit to post 4	L=4600 (blue marked)
10	4	68700451	Straight adaptor GE 10-PS/R1/4	
11	6	68990016	Tube clamp	
12	2	68990018	Tube clamp	
13	7	68700018	Straight adaptor G 10-PS	
14	1	41206180	Oil pipe post 1-2	L=2840

A.5 Hydraulic scheme



Index	Description	Remarks
C1-C4	Cylinder	
EV22	2/2 Valve	
VCDF	Flow control valve	2.5 l/min
F	Filter	
K	Non return valve	
P	Pump	3,7 cc
T	Tank	
O	Safety pressure valve	260 Bar
M	Electric motor	
R	Hose burst check valve	
FD	Flow divider	

Figure A 5.1 Hydraulic scheme

A.6 Hydraulic cylinder

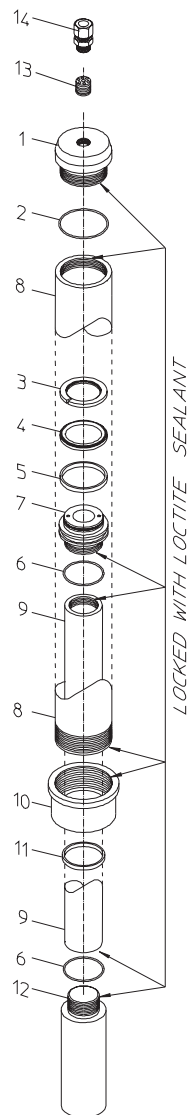


Figure A 6.1 Hydraulic cylinder

Table A 6.1 Hydraulic cylinder

Index	No.	Reference	Description	Remarks
	4	41206250	Cylinder assembly	
1	1	41206251	Cylinder bottom	
2	1	68515552	O-ring 55x2.5	
3*	1	34006753	Retaining ring	
4*	1	68554550	Piston seal	
5*	1	68575550	Bearing ring	
6	2	68515402	O-ring 40x2	
7	1	41206252	Piston	
8	1	41206253	Cylinder	
9	1	41206254	Piston rod	
10	1	41206255	Guide post	
11	1	68575551	Bearing ring	
12	1	41206256	Extension piece	
13	1	68228005	Hose burst check valve	
14	1	68700451	Straight adaptor GE 10-PS/R1/4	
*		34099000	Seal set	

A.7 Control box

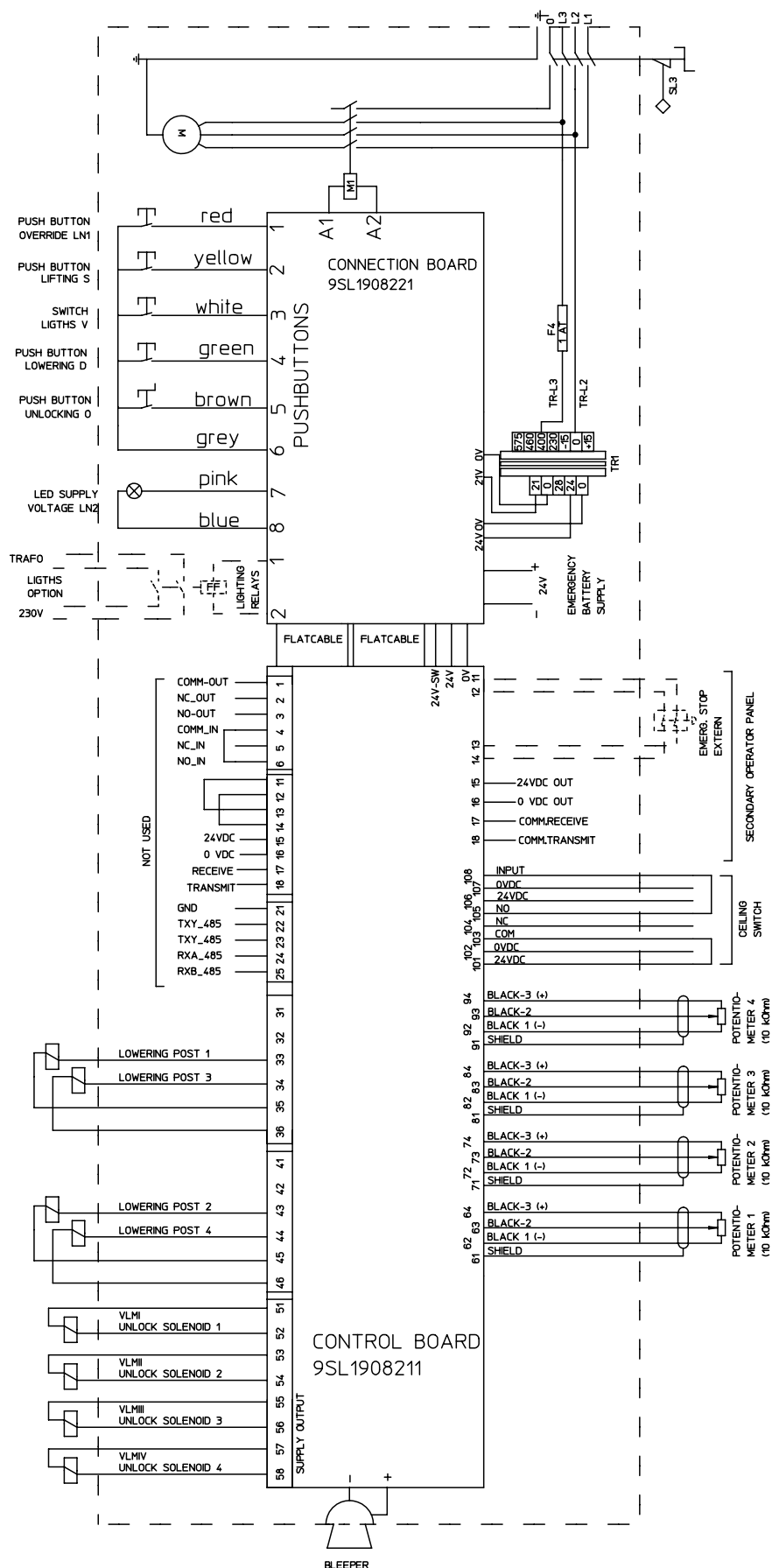


Figure A 7.1 Electric diagram

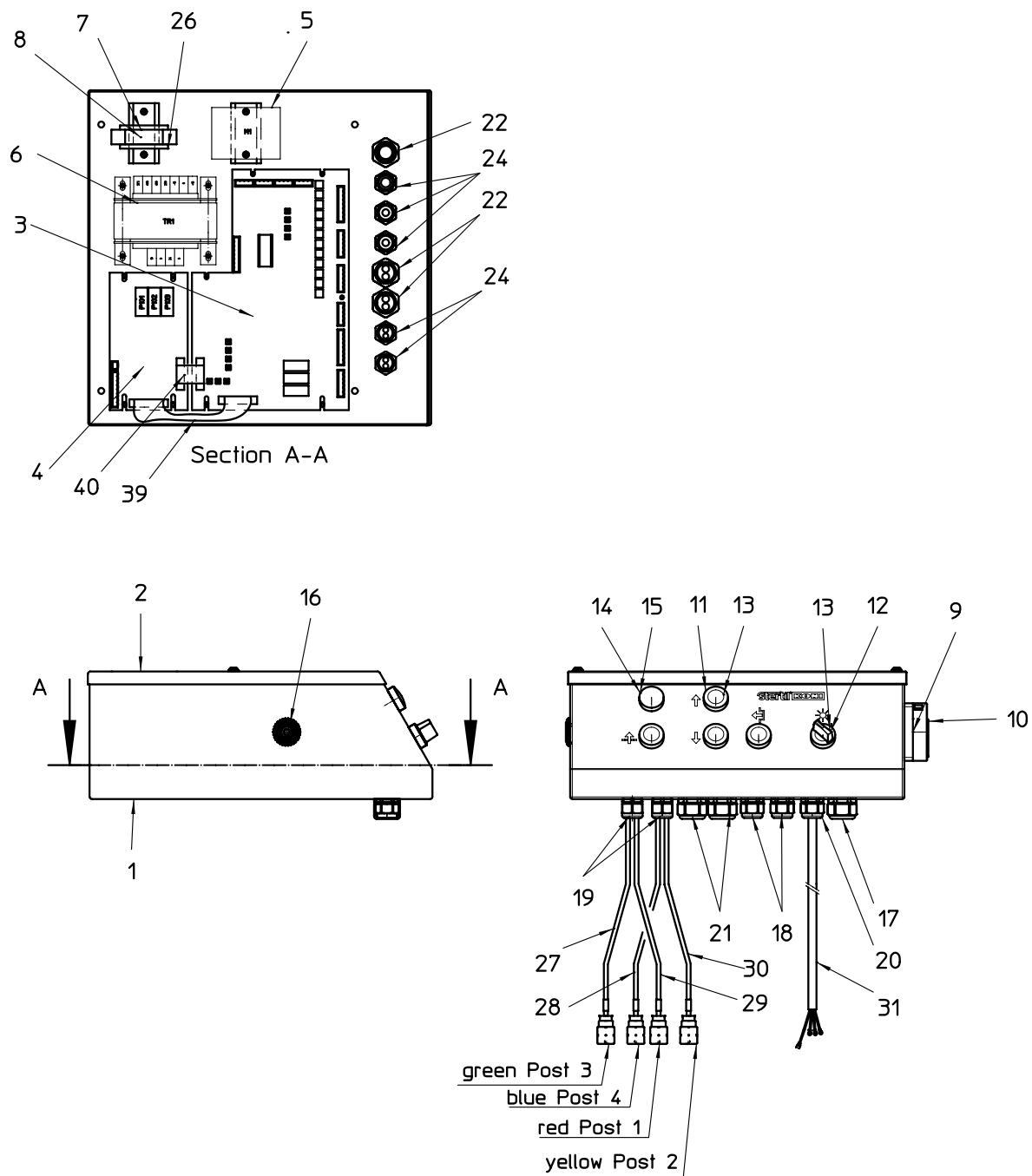


Figure A 7.2 Control box

Table A 7.1 Control box

Index	No.	Reference	Description	Remarks
	1	41207100	Control box	
1	1	41207125	Box	
2	1	41207126	Cover	
3	1	69900180	PCB	Including EPROM
4	1	69900145	PCB	
5	1	69154003	Motor relay	
6	1	69500012	Transformer	
7	1	69206402	Fuse holder	
8	1	69206026	Fuse ATDR 1	
9	1	69120016	Main switch	
10	1	69120017	Main switch knob (yellow)	
11	4	69141039	Push button	
12	1	69141122	Rocker	Lighting (option)
13	5	69141014	NC contactor	
14	1	69141124	Lamp holder + lens red	
15	1	69141125	LED 24V red	
16	1	69202009	Acoustic alarm	
17	1	69062015	Cable gland M25x1,5	
18	2	69062006	Cable gland M20x1,5	22052u8 gray
19	2	69062050	Cable gland M20x1,5	22052um2x6
20	1	69062008	Cable gland M20x1,5	22052u11 green
21	2	69062051	Cable gland M25x1,5	22553um2x8
22	3	69062034	Connection nut M25x1,5	
24	5	69062033	Connection nut M20x1,5	
26	2	69900058	Earth connector	
27	1	41207107	Cable lowering valve post 3	Green marked
28	1	41207108	Cable lowering valve post 4	Blue marked
29	1	41207105	Cable lowering valve post 1	Red marked
30	1	41207106	Cable lowering valve post 2	Yellow marked
31	1	32557105	Motor cable	
36	1	41207109	Earth cable	
39	1	69002506	Flat cable-assy (long)	
40	1	69002507	Flat cable-assy (short)	

A.8 Label locations

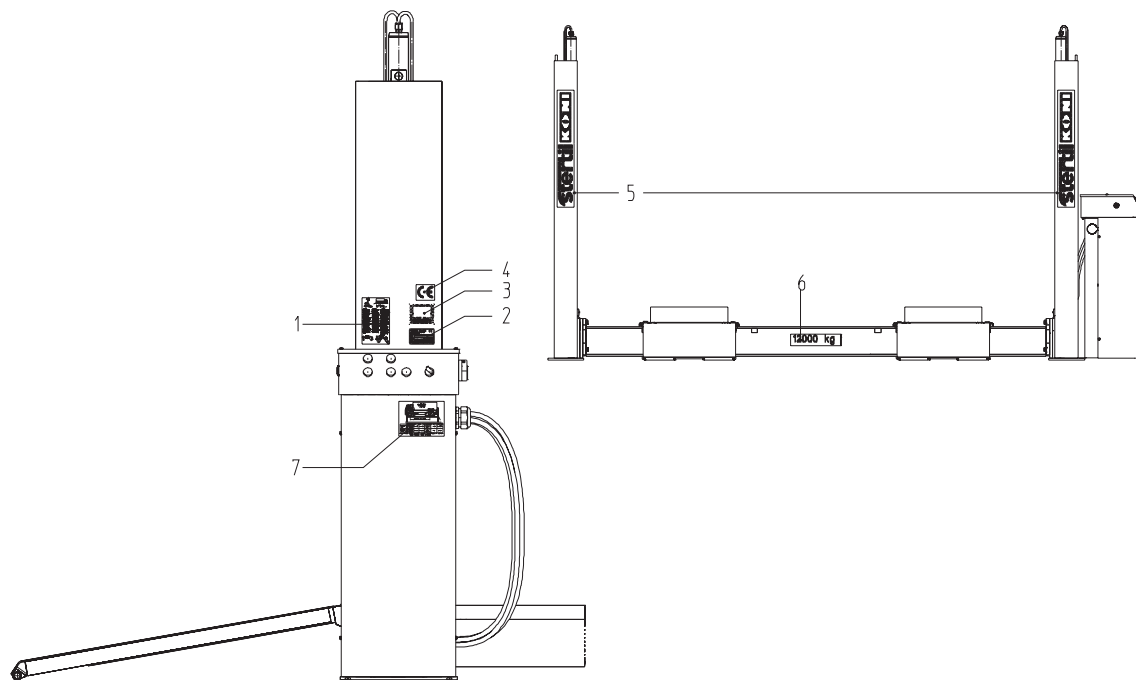


Figure A 8.1 Label locations

Table A 8.1 Label locations

Index	No.	Reference	Description	Remarks
1	1	60700250	Operation Sticker Dutch/German/France	
1	1	60700251	Operation Sticker English/Swedish/Spanish	
2	1	1005.01.01.92	Identification plate	
3	1	1005.01.01.67	Service sticker	
4	1	60700006	CE-sticker	
5	8	60700061	Steril/Koni sticker	
6	1	60700246	Capacity sticker	
7	1	60700264	Load distribution sticker EU	
8	1	41208000	Operation manual EU	
9		41208010	Service manual EU	
10		41208020	Parts manual EU	

A.9 Dimensional drawing

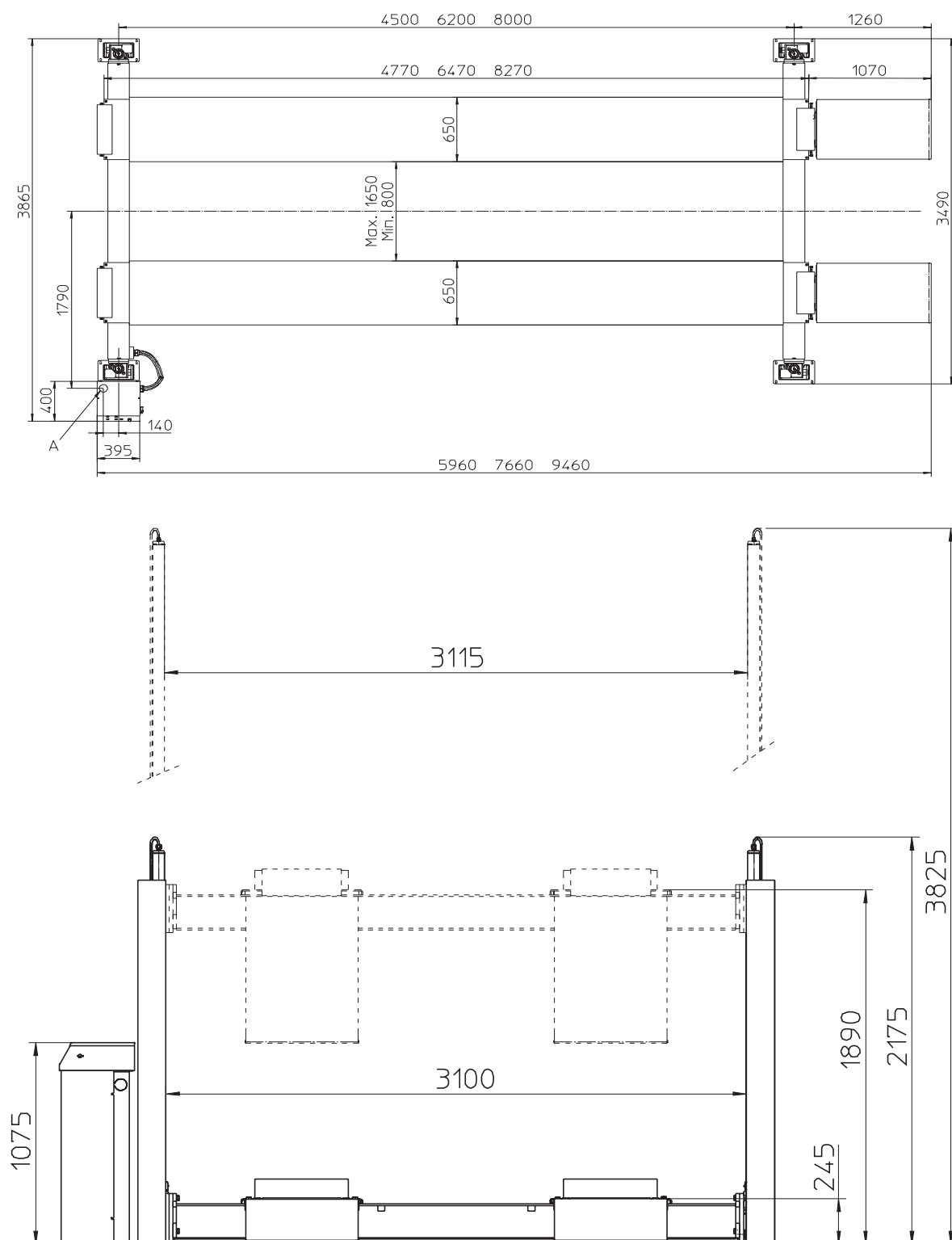


Figure A 9.1 Dimensional drawing

B

List of parts - Variants and options

The following sections will give an overview of the main assemblies of the variants and options of the Hydraulic vehicle lift ST 4120, and their components:

[B.1 'Track lighting' on page 20,](#)

[B.2 'Special drive-on ramps' on page 22,](#)

[B.3 'Third track' on page 23.](#)

B.1 Track lighting

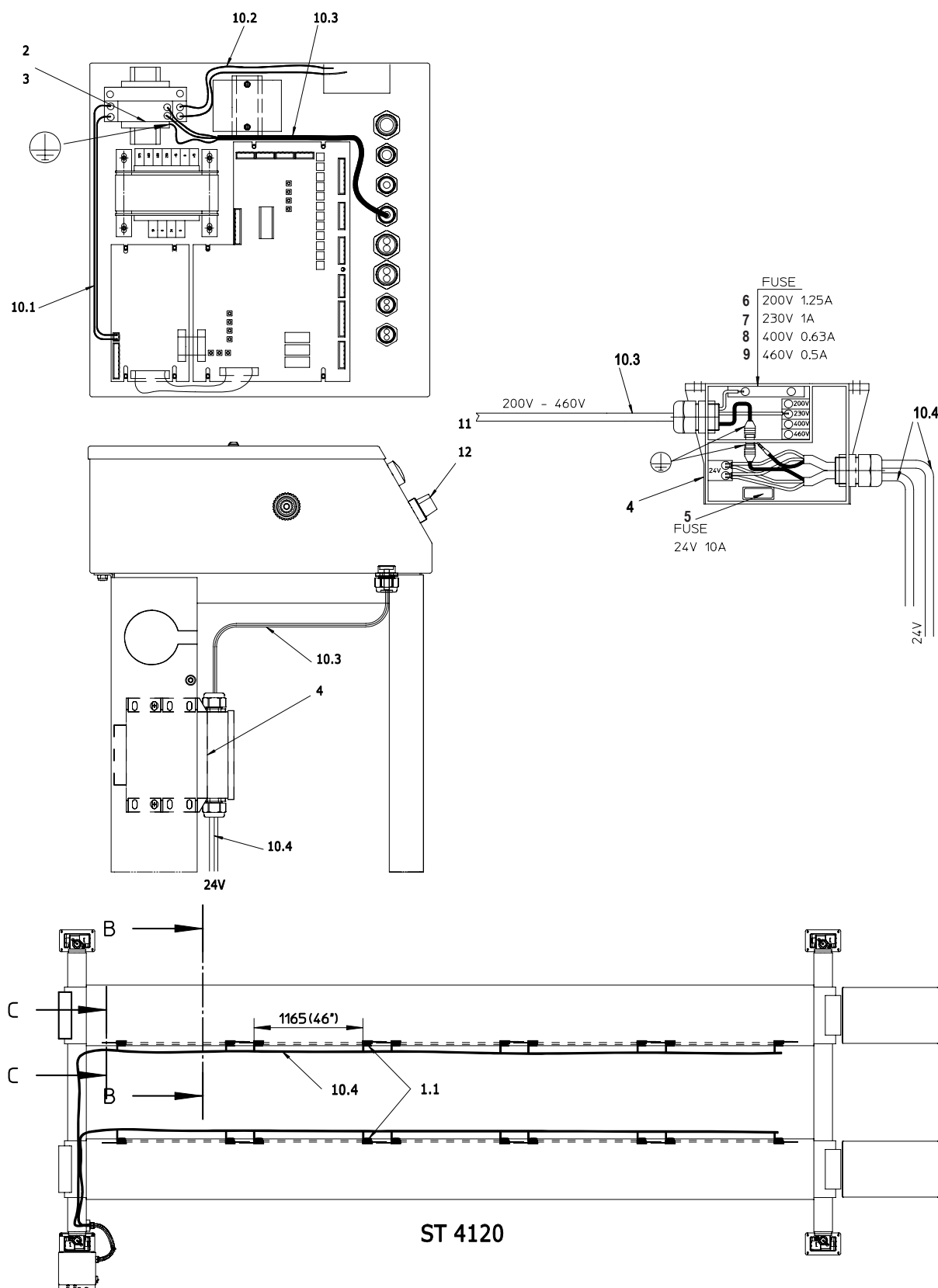


Figure B 1.1 Track lighting (1)

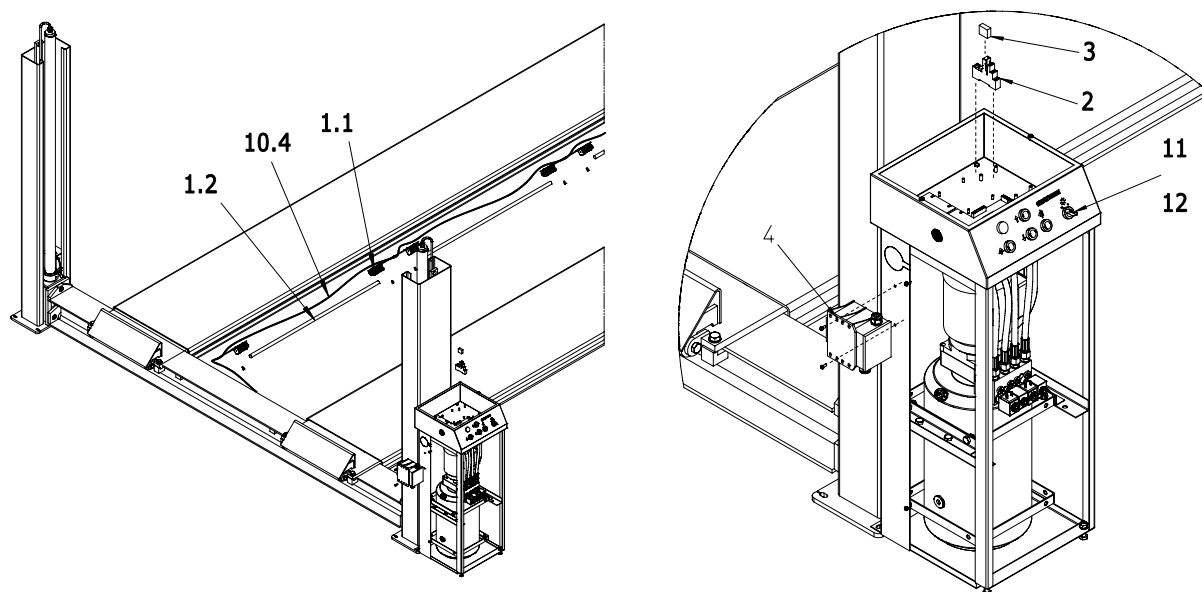


Figure B 1.1 Track lighting (2)

Table B 1.1 Track lighting

Index	No.	Reference	Description	Remarks
1		69700060	LED-armature	2 x 1.1 + 1.2
1.1		69700065	LED-engine set	
1.2		69700061	Tube	
2	1	69156012	Relay socket	
3	1	69156011	Auxiliary relay	
4	1	69500019	Transformer primary 200, 230, 400, 460V sec. 24V	
5	1	69206027	Fuse 24 V 10 Amps	Slow blow
6	1	69206028	Fuse 200V 1.25 Amps	Slow blow
7	1	69206016	Fuse 230V 1 Amps	Slow blow
8	1	69206029	Fuse 400V 0.63 Amps	Slow blow
9	1	69206030	Fuse 460V 0.5 Amps	Slow blow
10	1	69700075	Cable set	10.1 + 10.2 + 10.3 + 10.4
11	1	69141122	Rocker	
12	1	69141014	NC contactor	

B.2 Special drive-on ramps

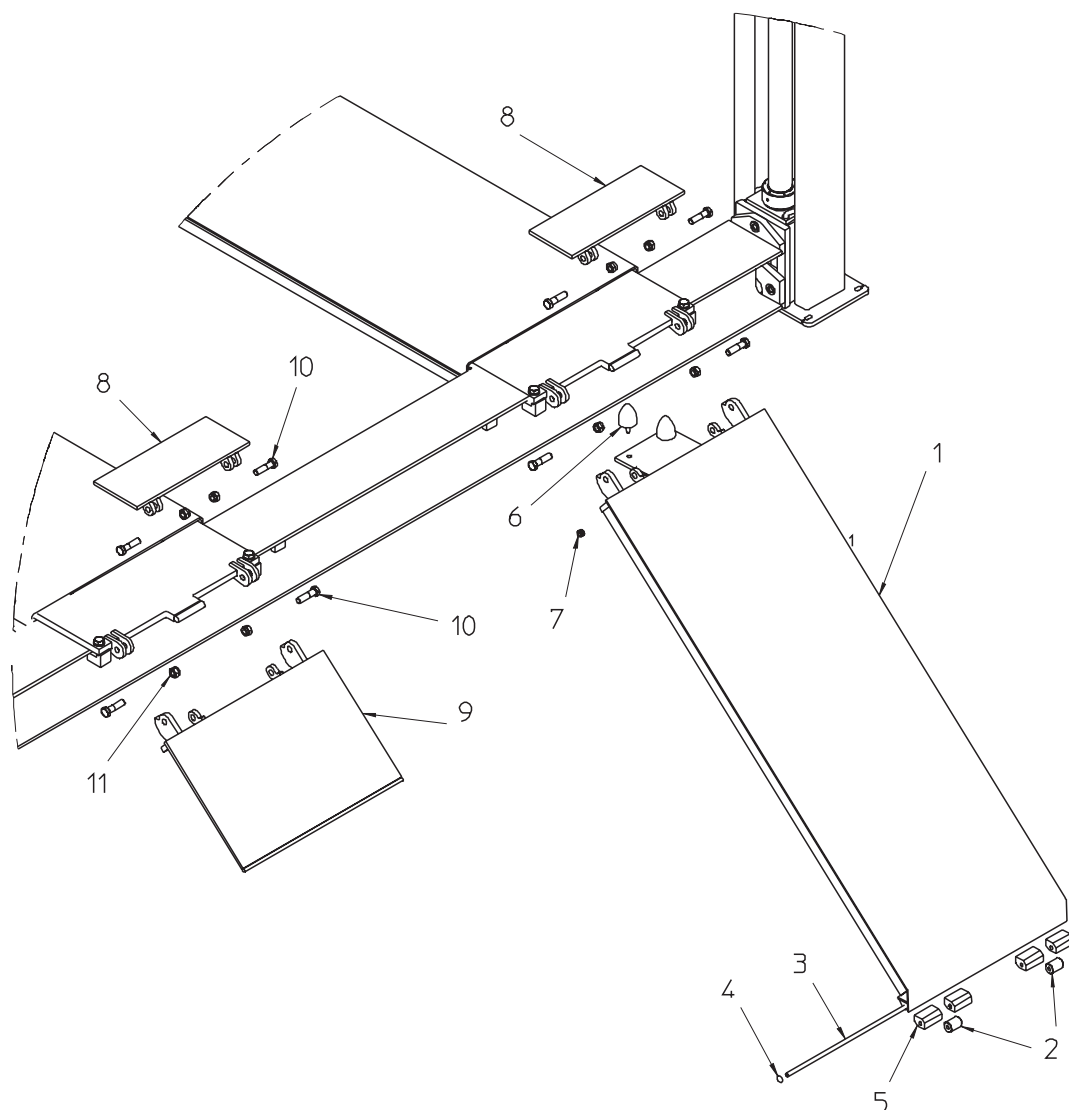


Figure B 2.1 Special drive-on ramps

Table B 2.1 Special drive-on ramps

Index	No.	Reference	Description	Remarks
	1	41209010	Set drive-on-ramps long 1600	P.1,2,3,4,5,6,7,8
	1	41209020	Set drive-on-ramps short 410	P.8 and 9 (For pit model)
1	2	41209135	Drive-on-ramp long 1600	
2	4	1024.38.00.12	Roller	
3	2	3621.14.02.00	Axle	
4	4	1038.34.01.00	Circlip with cap 10 mm	
5	8	41204001	Slide block	
6	4	03010010	Buffer	
7	4	65051034	Self-locking nut M10	
8	2	41204100	Wheel shock	
9	2	41209150	Drive-on-ramp short 410	For pit model
10	8	65002534	Bolt M16x60	
11	8	65055024	Washer M16	

B.3 Third track

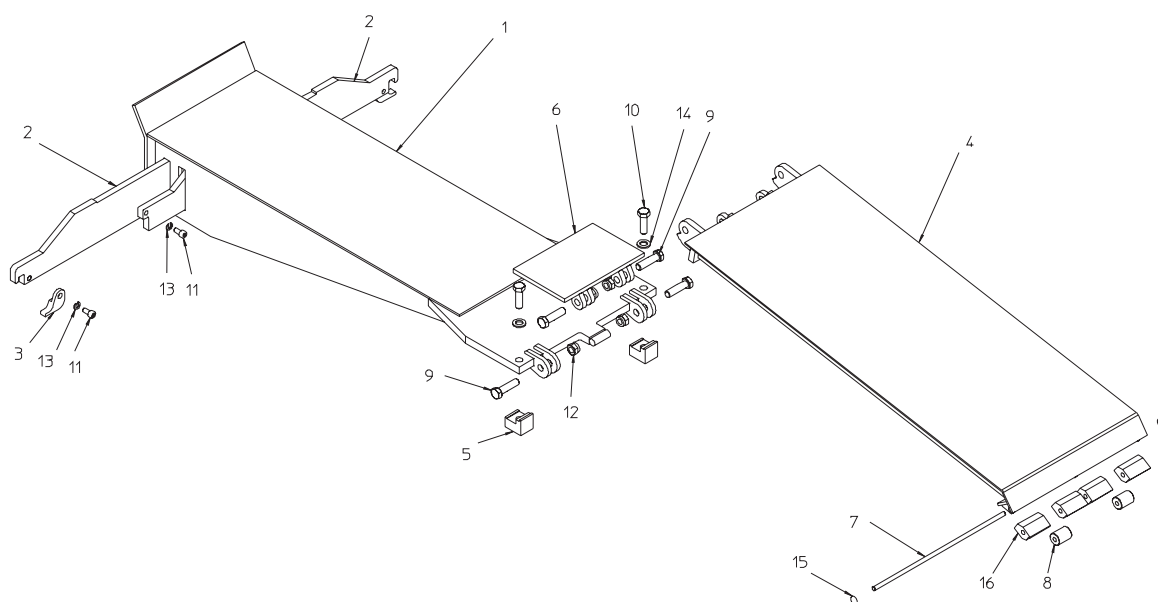


Figure B 3.1 Third track

Table B 3.1 Third track

Index	No.	Reference	Description	Remarks
		41209100	Third track assy	
		41209200	Third track assy	Long ramp (1600)
		41209250	Third track assy	Flush mounted model
1	1	41209105	Track	
2	2	41209101	Girder	
3	2	41209102	Clamp	
4	1	41209115	Drive on ramp	
4	1	41209205	Drive on ramp	Long (1600)
4	1	41209255	Drive on ramp	Flush mounted model
5	2	41203001	Clamp	
6	1	41209120	Wheel shock	
7	1	44509101	Axle	
8	2	1024.38.00.12	Roller	
9	4	65002534	Bolt M16x60	
10	2	65003532	Bolt M16x50	
11	4	65012443	Bolt M12x20	
12	4	65051040	Self-locking nut M16	
13	4	65058028	Spring ring M10	
14	2	65055024	Washer M16	
15	2	1038.34.01.00	Circlip with cap 10 mm	
16	4	41204001	Slide block	