Service part catalogue

iVario® ab 03/2020 Pro XL (311) - 59 dm², 150 L
31+

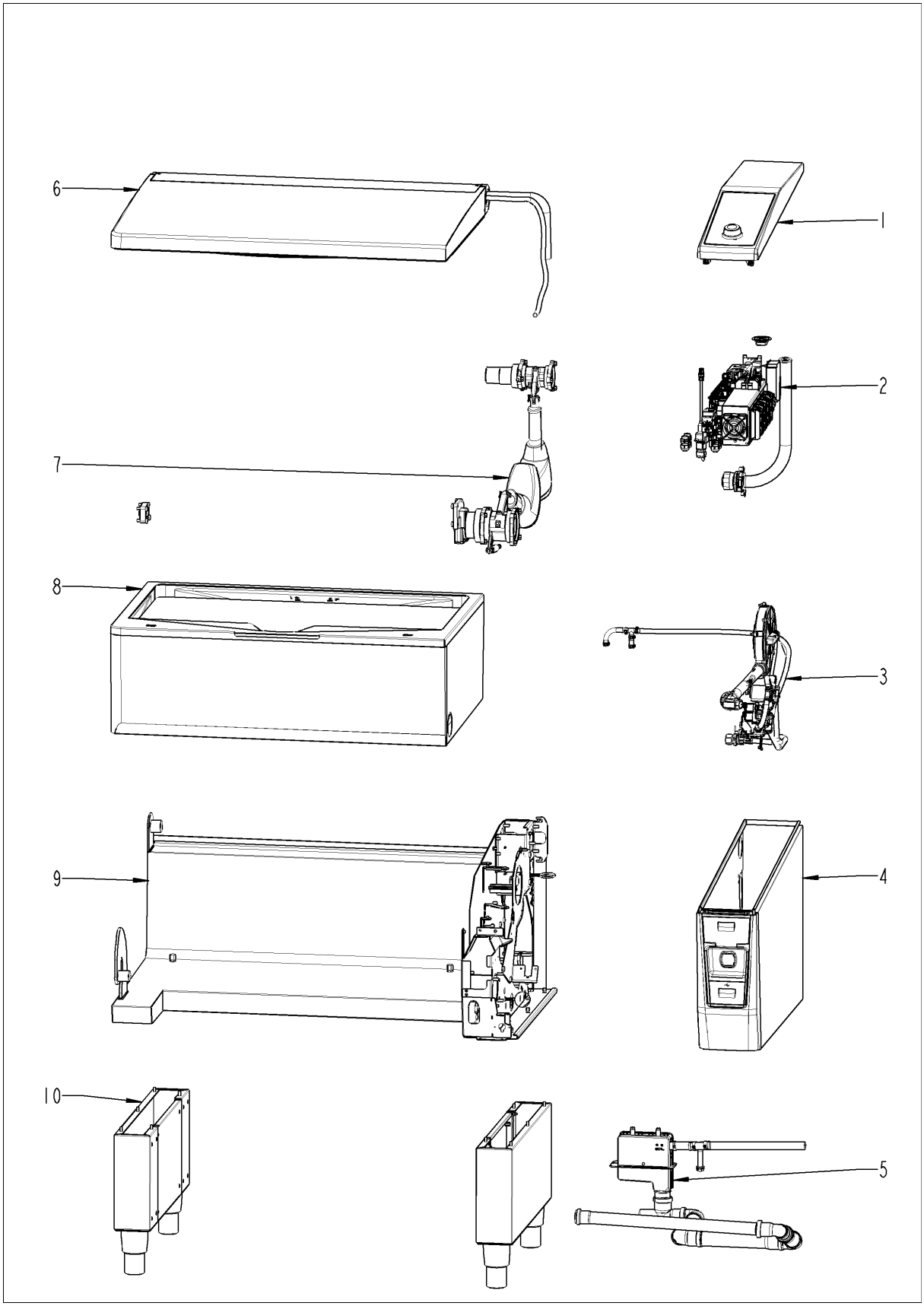
E31PK2109



8.12.2021 r.
3NAC400 V 50/60Hz

Kat-RTS_210315
©Copyright by RATIONAL Technical Service
All Rights reserved

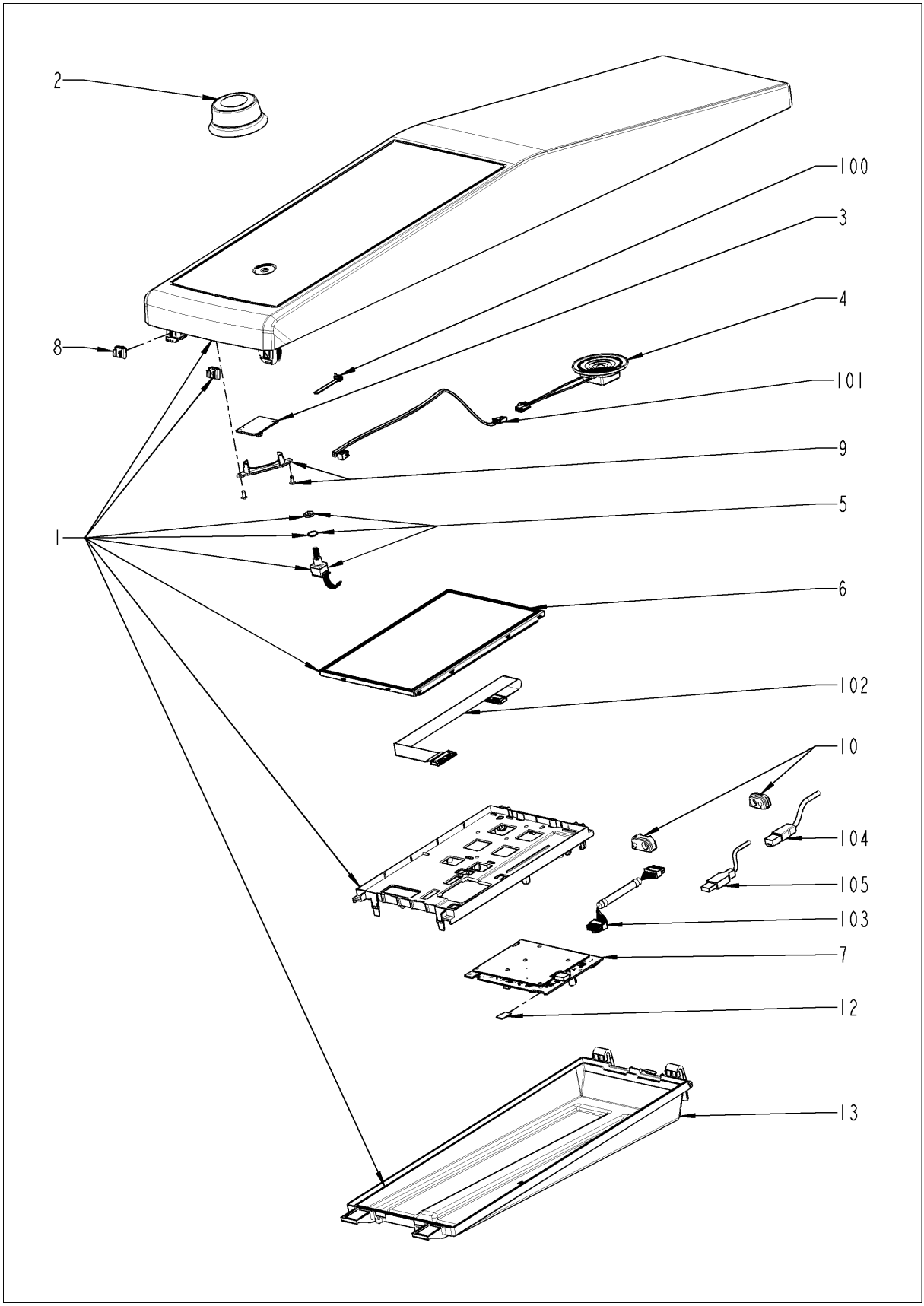
Overview



Overview

Pos.	Assembly	Page
1	Control panel	4
2	Electrical installation	6
3	Water distribution	8
4	Console	10
5	Water drain	12
6	Lid	14
7	Kinematic	16
8	Pan	18
9	Base structure	22
10	Underframe	24
20	Accessories	26
30	Repair and retrofit kit	46

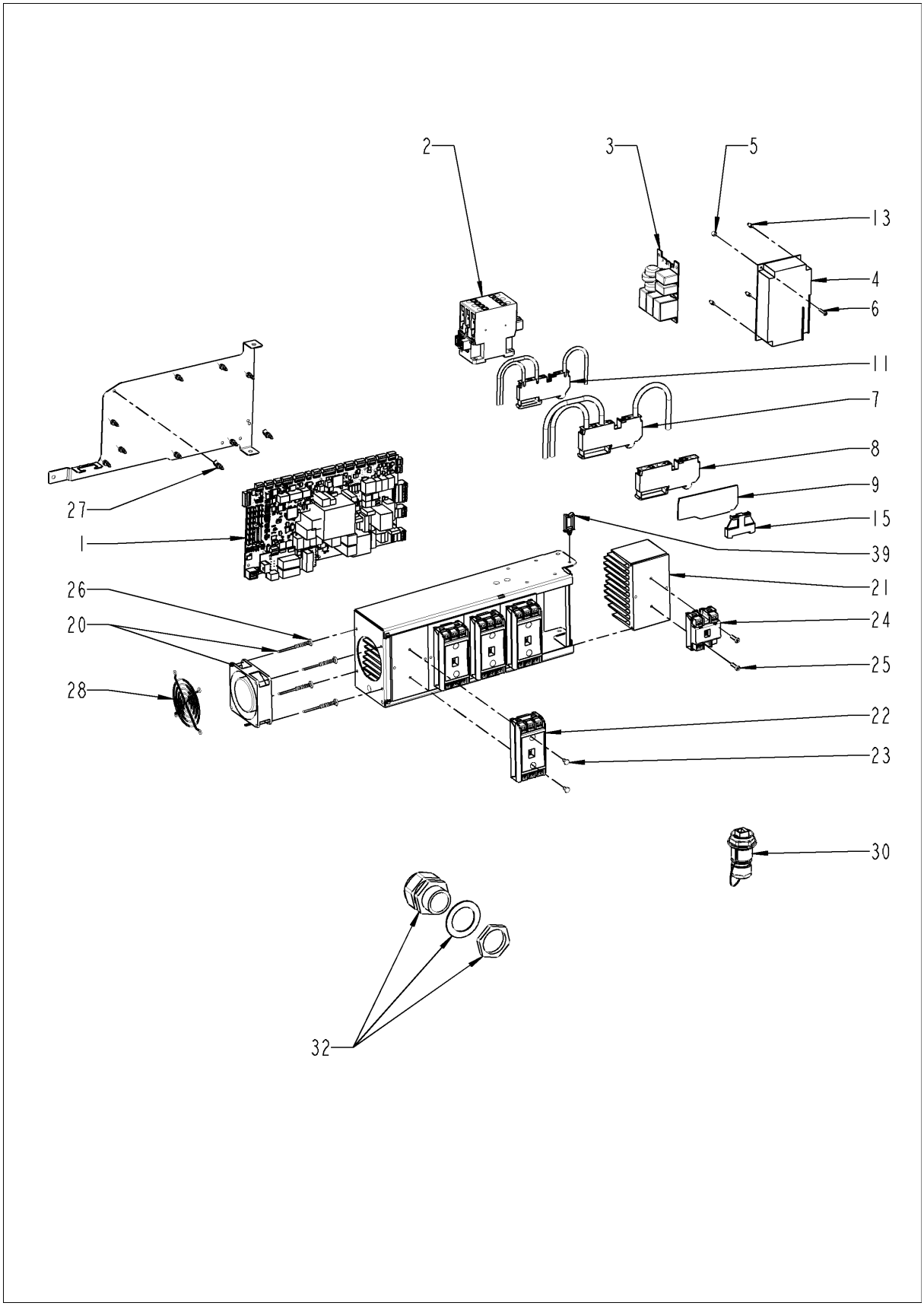
Control panel



Control panel

Pos.	Part no.	Description	Qty.
1	16.03.565P	Control panel RATIONAL	1
2	16.03.756P	Dial f. pulse generator	1
3	42.00.346P	Sensor on / off	1
4	40.06.728P	Loudspeaker K 64 WPTR	1
5	40.00.404P	Pulse generator	1
6	42.00.287P	Display *TFT*	1
7	42.00.251P	Control pcb (w/o SD-Card)	1
8	10.01.862P	Cage nut M5 for 1.7 up to 2.5mm	2
9	16.04.204S	On-Off sensor support	1
10	87.01.774S	Gasket kit for control panel cable	1
12	42.00.359P	Micro SD card	1
13	16.04.064P	Inner protective cover of the control panel	1
100	40.06.760P	Cable control pcb - capacitive switch	1
101	40.06.076P	Loudspeaker cable	1
102	40.06.569P	Cable CPU - TFT	1
103	40.06.103P	Bus cable 0,7m	1
105	40.06.583P	Interface cable USB 1,4m	1

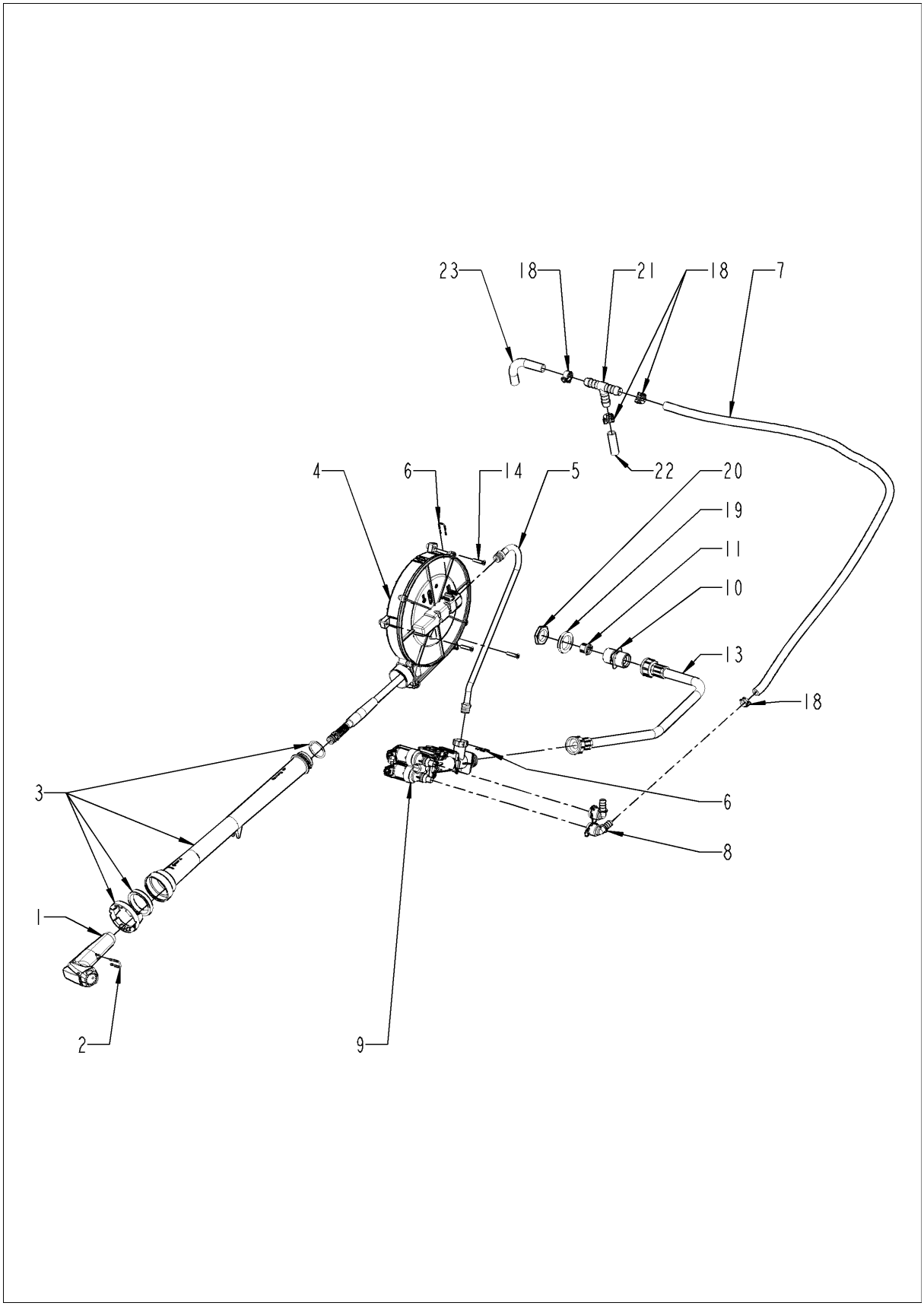
Electrical installation



Electrical installation

Pos.	Part no.	Description	Qty.
1	42.00.311P	Relay-I/O pcb A10	1
1.1	40.06.252P	Termination resistor	1
1.2	42.00.413P	I/O movement PCB A13	1
1.3	40.07.636P	Bus cable for A13 I/O board	1
1.4	40.07.635P	Adapter harness for I/O board A13	1
2	40.06.455P	Contactor K3-40B00 190R T AZ	1
2.1	40.02.641P	Auxilliary contact B&J HN10 N/O	1
3	42.00.322P	Electronic noice filter	1
4	40.06.713P	Power supply	1
5	10.01.907P	Spacer Ø int = 3,2mm, H = 6mm	1
6	10.00.144P	Socket cap screw M3x16mm	1
7	40.06.426P	Double level terminal block 16mm² blue	1
8	40.06.626P	Earth terminal WKFN 16 D1/2/SL/35	1
9	40.07.121P	End flask for block APFN 16 D1/2/35	1
11	40.06.933P	Double level earth terminal 6mm² yellow/green	1
13	10.01.906P	Printed circuit board holder, clip-on H=6mm	3
15	4001.1203P	End plate for mounting rail	1
20	40.06.806S	Cooling fan	1
21	40.06.428P	Heat sink 1 SSR	5
22	40.05.670P	Solid state relais	4
23	10.02.263P	Raised countersunk head screw Torx M4x10 T20	8
24	40.05.840P	Solid state relais	1
25	10.02.263P	Raised countersunk head screw Torx M4x10 T20	2
26	10.01.339P	Fixing Elastomer	4
27	10.01.336P	Plastic spacer 7mm 12	11
28	40.07.421S	80mm fan protection grill with mounting set	1
29	40.07.372P	Locking device for heat sink	1
32	40.00.701S	Screwed cable gland polyamid PG40	1
39	10.02.376P	Cable tie 160mm with fir base	4
100	40.06.093P	Control harness	1

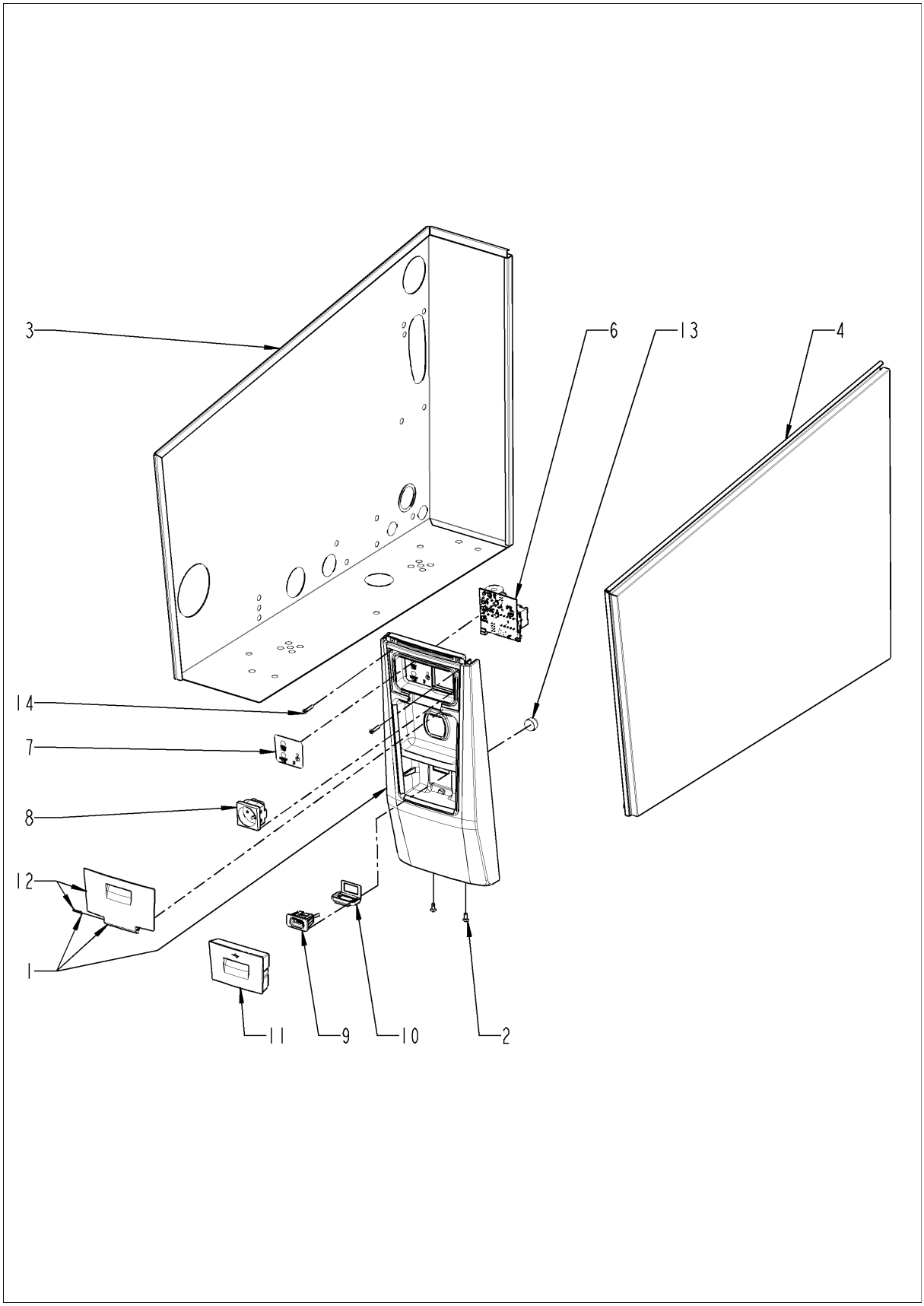
Water distribution



Water distribution

Pos.	Part no.	Description	Qty.
1	52.00.127S	Hand shower black	1
2	50.00.156P	Clamp f. hand shower roll guide	1
3	87.01.616S	Connection pipe hand shower roll guide	1
4	52.00.143P	Hand shower roll guide	1
5	52.00.105P	Hand shower roll guide water supply	1
6	50.00.085P	Plug-in spring f. hand shower roll guide	2
7	24.04.940P	Silicon hose ø10x3mm	1.1
8	52.00.017P	Angle plug PS3 6-6-90°	2
9	50.02.063P	Double solenoid valve block with flowmeter	1
10	50.02.114P	Fitting 3/4" M/M	1
11	1900.0202P	Water filter	1
13	50.02.094P	Water supply pipe	1
14	10.01.669P	Slot counter head secur screw M5X20 Phillips	3
18	10.02.239P	Hose clamp clic R86-145	6
19	50.02.324P	Gasket for water supply coupling 38x28	1
20	50.02.325P	Fixing nut 3/4"	1
21	54.01.985P	T-fitting D10	1
22	24.04.940P	Silicon hose ø10x3mm	.05
23	24.04.940P	Silicon hose ø10x3mm	.12
100	40.07.208P	Flowmeter cable	1

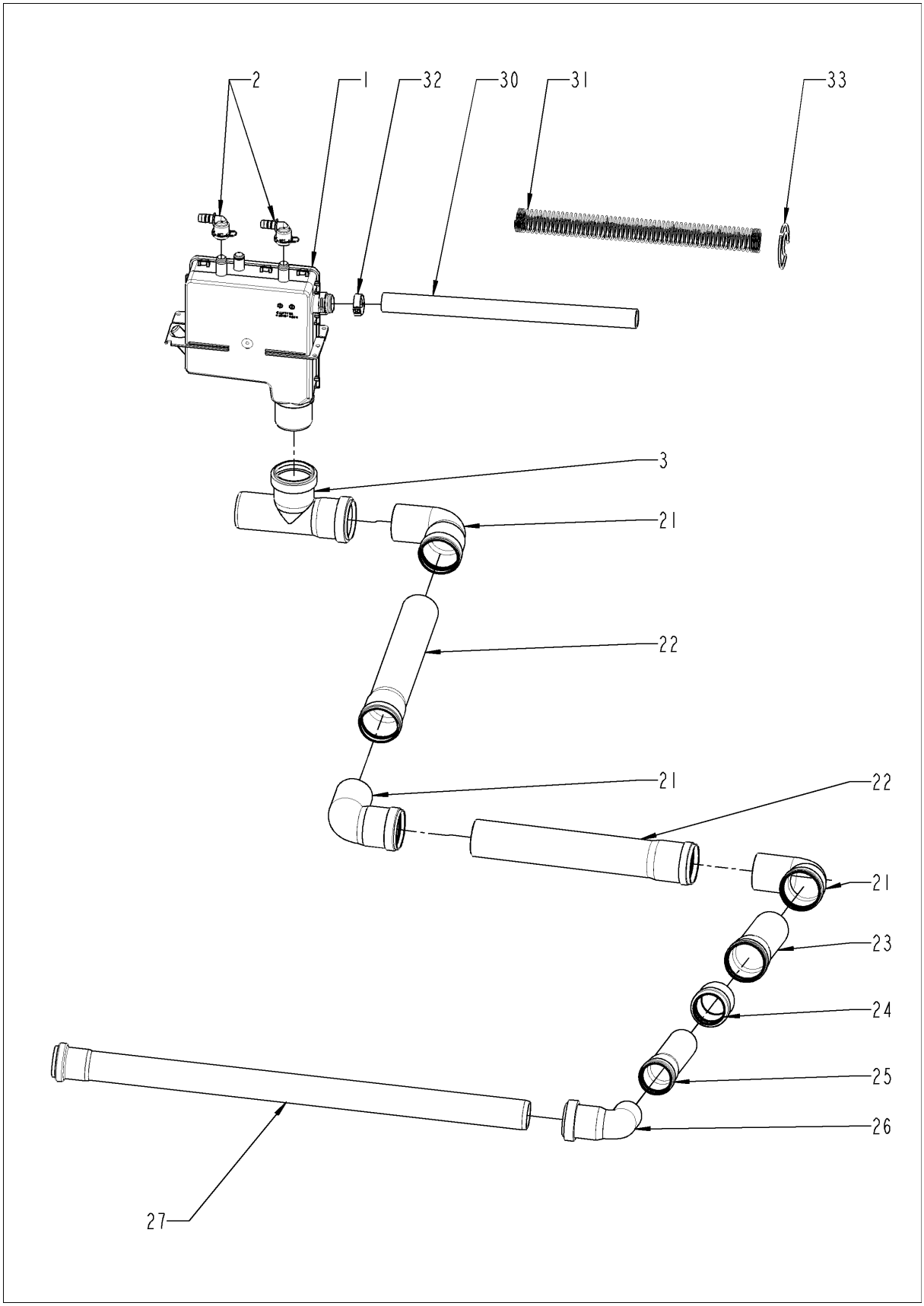
Console



Console

Pos.	Part no.	Description	Qty.
1	16.03.491P	Front panel console	1
2	10.01.912P	Crosshead screw M5x12	2
3	16.03.553P	Side panel left for console	1
4	16.03.554P	Side panel right for console	1
6	42.00.356P	Protection board for socket outlet protection	1
7	16.04.236P	Shutter sticker option without differential protection	1
8	40.01.410P	Socket 2P+T 16A (Germany)	1
9	40.06.583P	Interface cable USB 1,4m	1
10	40.06.045P	USB socket cover	1
11	16.03.878P	Front panel cover for USB assembly	1
12	16.03.997P	Socket flap	1
13	24.02.804P	Magnet 22x10mm	1
14	10.01.923P	Counter head screw M5x45 DIN965-H	2

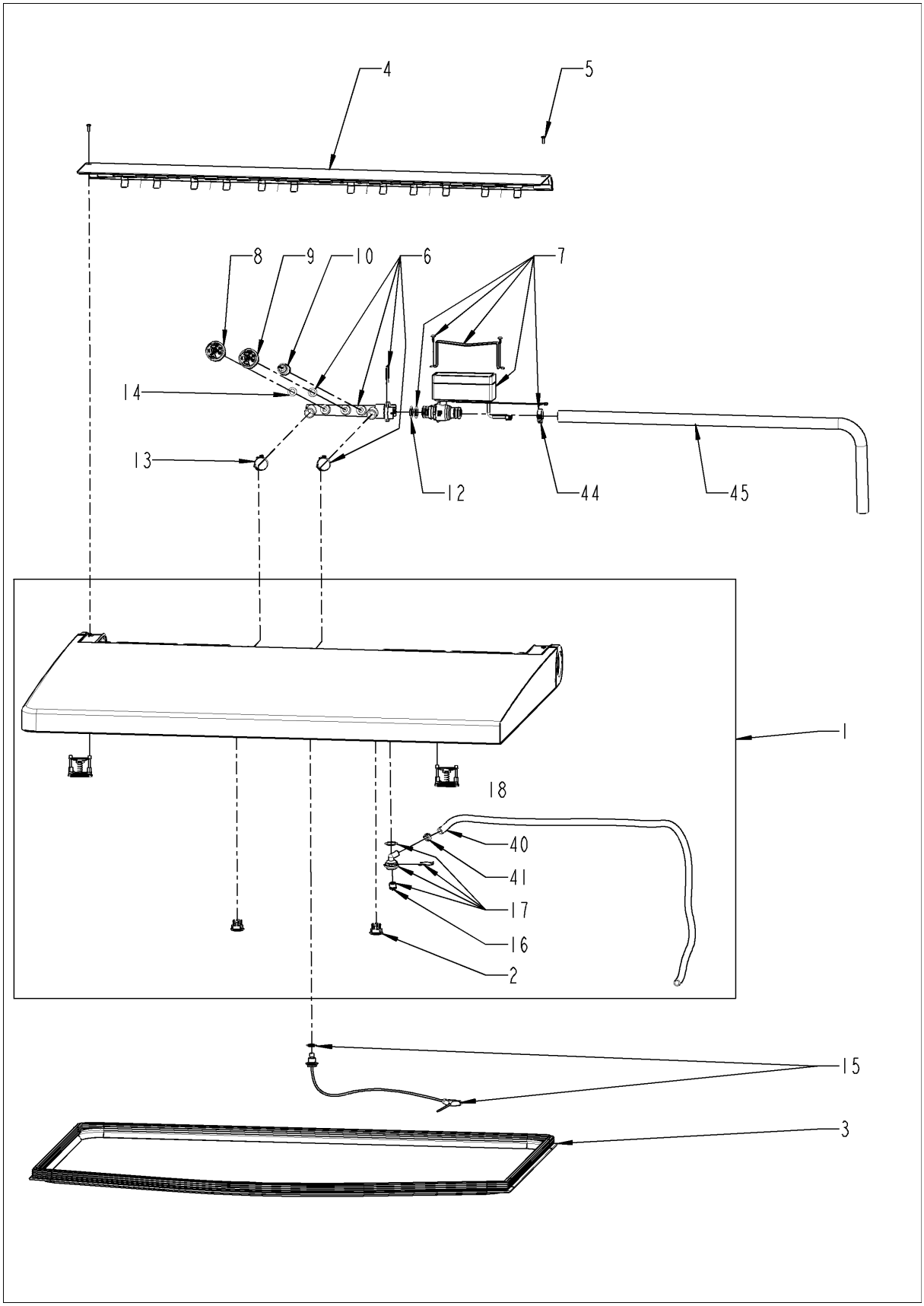
Water drain



Water drain

Pos.	Part no.	Description	Qty.
1	54.01.978P	Control chamber	1
2	52.00.017P	Angle plug PS3 6-6-90°	2
3	2070.0048P	HT drain T-fitting 50mm	1
21	54.00.560P	Elbow-pipe PP DN50 87°	3
22	54.00.755P	Pipe PP DN50 x 250	2
23	54.00.564P	PP-Pipe DN50 x 150mm	1
24	50.00.680P	Bushing PP D50/D40	1
25	54.00.567P	PP-Pipe DN40 x 150mm	1
26	54.00.575P	Elbow-pipe PP DN40 87.5°	1
27	20.03.500P	Pan drain hose	1
30	24.04.939P	Silicone hose diameter 20/26mm	1.36
31	50.02.072P	Holding spring	1
32	10.02.240P	Hose clamp clic R96-290	1
33	24.05.622P	Spring stop	1

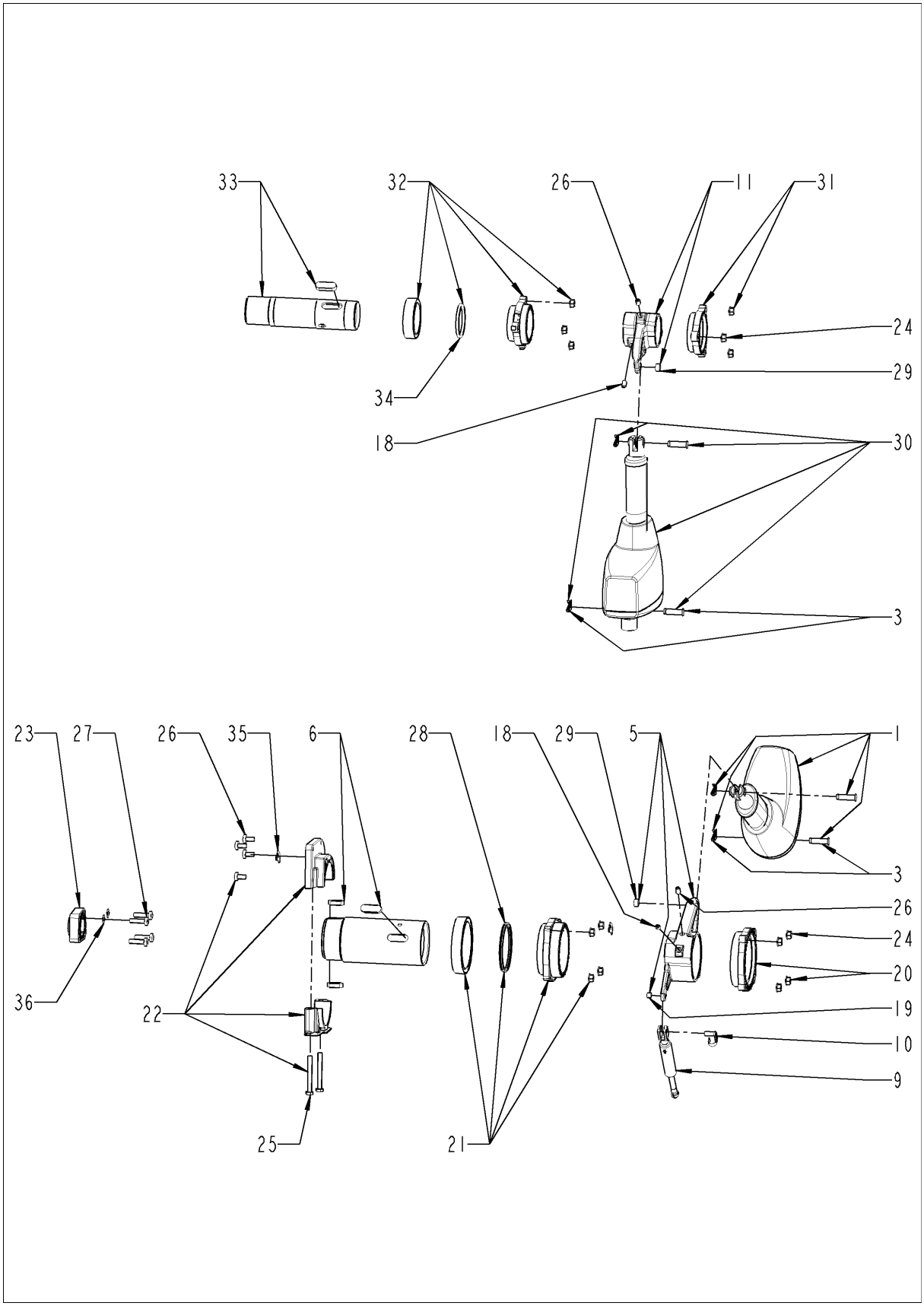
Lid



Lid

Pos.	Part no.	Description	Qty.
1	24.03.581P	Lid	1
2	24.04.054P	Cover for pressure connection	2
3	24.04.954P	Lid gasket	1
4	24.04.046P	Inspection cover for lid	1
5	10.01.808P	Hex socket countersunk head screw M5x16	2
6	87.01.563S	Left module for sensors	1
7	87.01.836S	Pressure control valve	1
8	54.01.751S	Pressure switch 20 mbar	1
9	54.01.878S	Pressure switch 350 mbar	1
10	54.01.771P	Pressure sensor	1
12	54.02.082P	O-ring for ball valve 21,5 x 3	2
13	10.02.087P	Hose clamp clic R96-285	2
14	54.01.962P	Flat gasket 20x13,5x2mm	2
15	40.07.165S	Meat probe sensor	1
16	50.02.248S	Aerator with service key	1
17	87.01.617S	Filling nozzle left cover	1
18	24.04.432P	Locking orifice plug	2
40	24.04.940P	Silicon hose ø10x3mm	1.2
41	10.01.132P	Hose clamp clic R86-140	1
44	10.02.240P	Hose clamp clic R96-290	1
45	24.04.939P	Silicone hose diameter 20/26mm	1.36

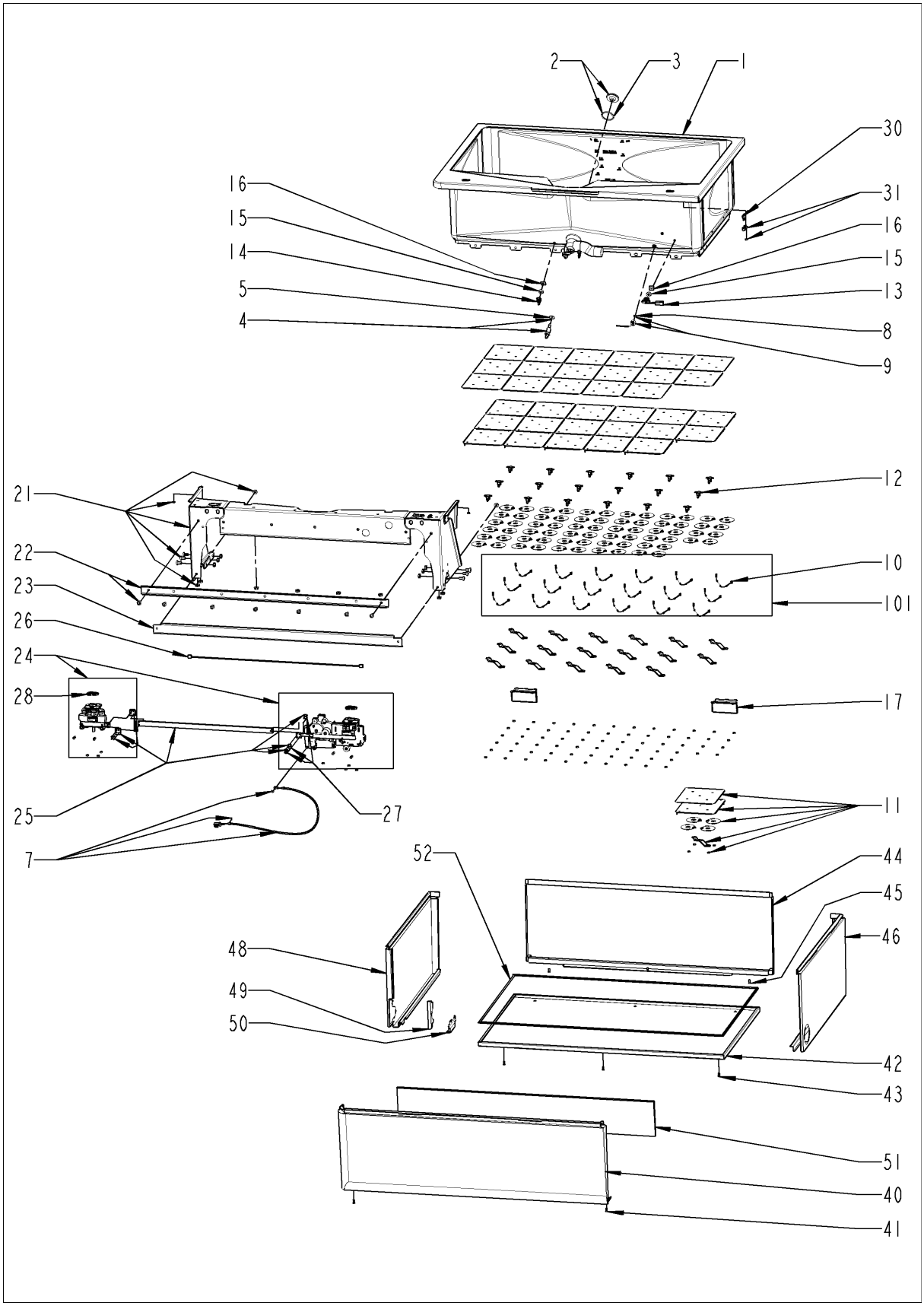
Kinematic


33
32
26
11
31
24
29
34
18
30
3
23
27
26
35
6
28
18
29
5
1
3
26
24
20
19
10
9
36
22
25
21

Kinematic

Pos.	Part no.	Description	Qty.
1	20.03.297S	Lifting cylinder for pan	1
1.1	40.06.578P	Set of power supply cables for pan and lid cylinders	1
3	20.02.653S	Shaft hoist swing shaft 10x38	4
5	20.03.323S	Lift arm for pan	1
6	20.03.190S	Pan shaft	1
9	20.03.743P	Gas spring 900N	1
10	10.02.168P	Fixture security for gas spring	1
11	24.04.358S	Arm raising lid	1
18	10.01.833P	Hexagon socket set screws with flat point M8x14	1
19	24.02.753P	Flange Bearing GSM-0809-08	1
20	20.03.382S	Inner bearing for pan	1
21	20.03.331S	Bearing for pan	1
22	87.01.603S	Pan clamping bearing assembly	1
23	20.02.892P	Bearing left for pan	1
24	10.01.851P	Collar nut M8 locking teeh	14
25	10.00.750P	Hex screw M8x70	2
26	10.01.616P	Pan head screw Torx T40 M8x16	6
27	10.01.826P	Cylinder head screw torx T40 M8x30	4
28	12.02.398P	X-ring 85x5.33	1
29	10.01.468P	Sintered bronze bushings	2
30	24.04.352S	Lifting cylinder for lid	1
31	24.04.455S	Cover bearing	1
32	24.04.424S	Lid bearing with sealing ring	1
33	24.04.418S	Cover shaft	1
34	12.02.399P	X-ring 55x5.33	1
36	1308.0160P	Washer M8 A2	2

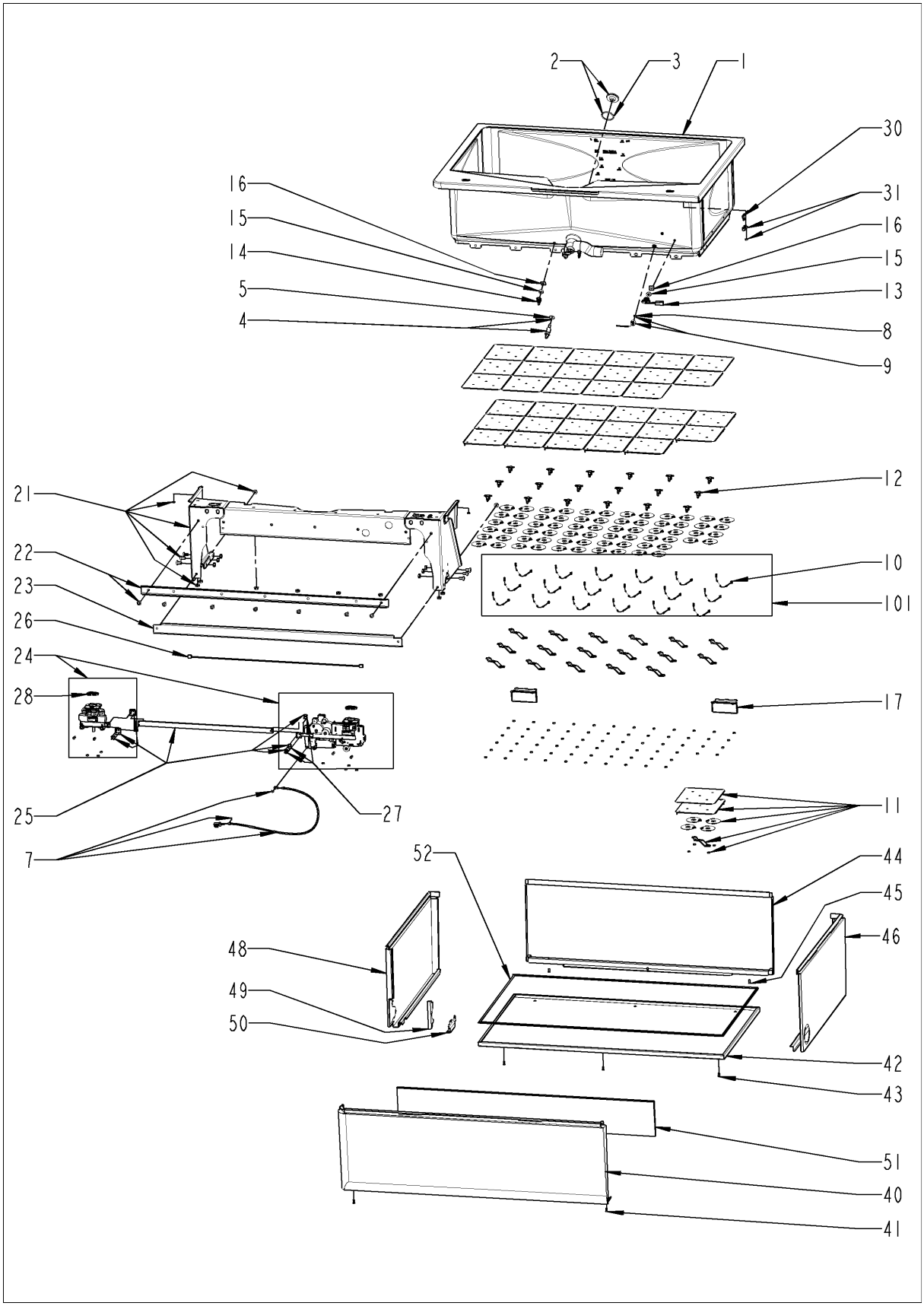
Pan


2
3
1
30
16
15
14
5
4
31
16
15
13
8
9
21
22
23
26
24
28
25
7
27
12
10
101
17
11
52
44
45
46
48
49
50
42
43
51
40
41

Pan

Pos.	Part no.	Description	Qty.
1	87.01.607S	Kit pan with pressure	1
1.1	10.02.267P	Gasket 3x10mm	3.8
2	20.01.653S	Plug for pan valve with gasket	1
3	20.00.993P	Gasket for plug pan valve	1
4	20.01.587S	Sheath for pan valve	1
5	10.00.675P	O-ring f. pan valve 17.3 x 2.4	1
7	20.03.450S	Pan valve cable pan left	1
8	20.03.600P	O-ring 9.8x1.5	1
9	40.06.857S	Thermocouple pan left	1
10	87.00.339	Thermocouple for heating element	1
11	87.00.674	Conversion kit heating element 2287W 230V	18
12	40.04.370P	Safety temperature limiter heating element	18
13	40.04.501P	Safety temperature limiter 130°	1
14	40.02.337P	Safety temperature limiter 215°C	1
15	20.01.508P	Spacer for safety temperature limiter	2
16	20.01.518P	Graphit plate for safety temperature limiter	2
17	20.03.024P	Stop for pan	2
21	20.03.656S	Front reinforcement of pan headband	1
22	20.03.630S	Transverse pan reinforcement	1
23	20.03.504P	Pan reinforcement	1
24	87.01.564S	Lid locking assembly	1
25	20.03.342S	Master-slave link assembly	1
26	40.06.881P	Master-slave connection cable	1
27	20.03.696P	Connecting link ISO06B-1 Form E	1
28	20.03.705P	Gasket for lid locking assembly	2
30	40.06.458P	Magnetic contact	1
31	20.03.667S	Magnetic contact support	1
40	16.03.711P	Front panel for pan	1
41	10.01.808P	Hex socket countersunk head screw M5x16	2
42	16.03.489P	Lower panel for pan	1
43	10.01.808P	Hex socket countersunk head screw M5x16	6
44	16.03.830P	Back panel for pan	1
45	10.01.808P	Hex socket countersunk head screw M5x16	2
46	16.03.556P	Side panel right of pan	1
48	16.03.372P	Side panel left of pan	1
49	16.03.706P	Sealing device for left panel	1

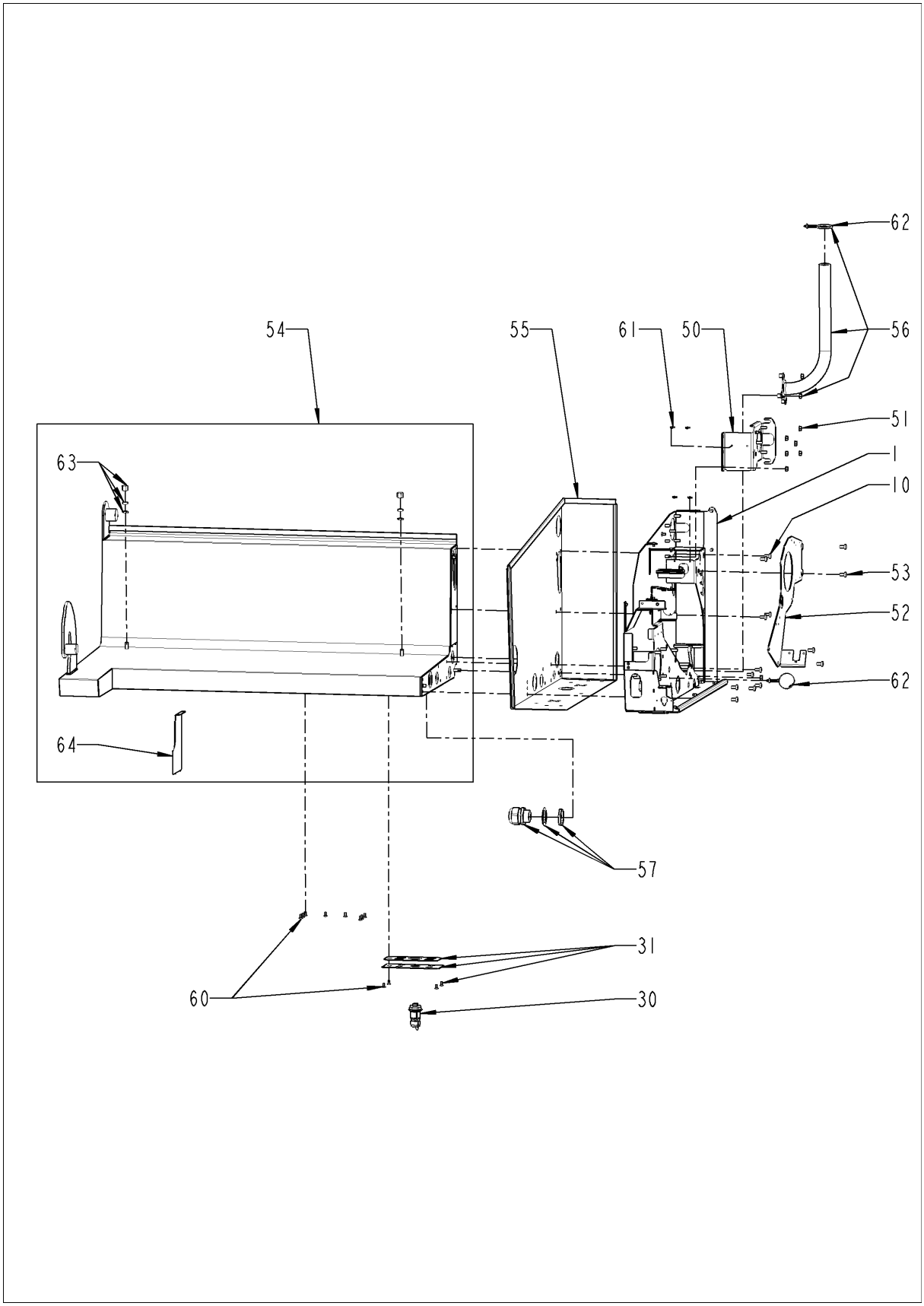
Pan


2
3
1
30
16
15
14
5
4
31
16
15
13
8
9
21
22
23
26
24
28
25
7
27
12
10
101
17
11
52
44
45
46
48
49
50
42
43
51
40
41

Pan

Pos.	Part no.	Description	Qty.
50	20.03.254P	Mounting piece for pan panel	1
51	20.03.475P	Pan front insulation	1
52	20.03.466P	V-profile gasket	3.8
100	40.05.947P	Power harness heating element	1
101	40.05.933P	Thermocouple harness	1

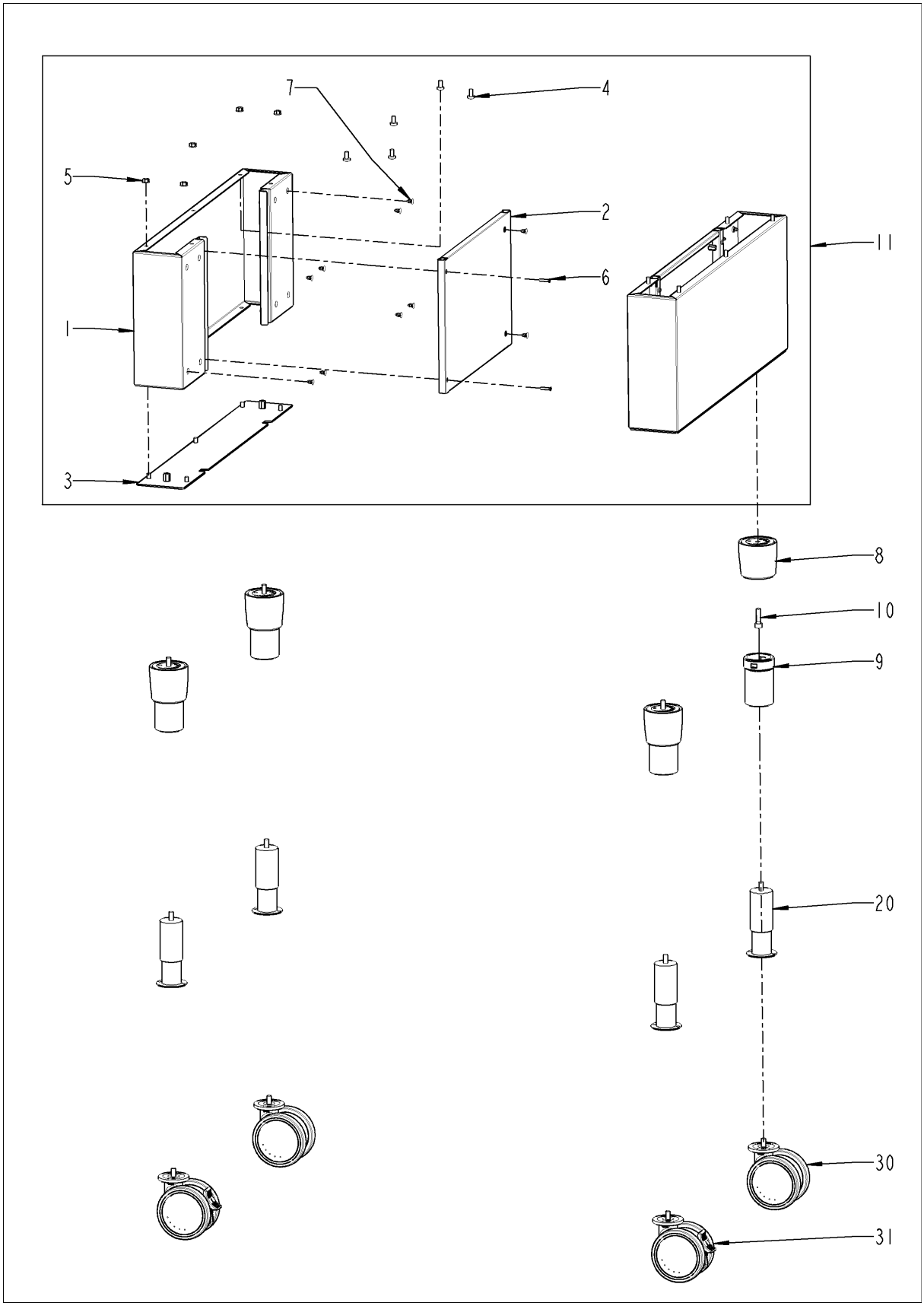
Base structure



Base structure

Pos.	Part no.	Description	Qty.
1	12.02.937P	Chassis right	1
10	10.01.616P	Pan head screw Torx T40 M8x16	10
31	12.02.440S	Cable gland mounting plate	1
50	12.02.939P	Removable part of the right frame	1
51	10.01.851P	Collar nut M8 locking teeh	5
52	12.02.531P	Shower roll guide holder	1
53	10.01.616P	Pan head screw Torx T40 M8x16	4
54	12.02.449P	Chassis left 211/311	1
55	16.03.553P	Side panel left for console	1
56	12.02.971S	Guide tube for a supply cable	1
57	40.00.701S	Screwed cable gland polyamid PG40	1
60	10.01.912P	Crosshead screw M5x12	14
61	10.02.198P	Plastic spacer 7mm for 3mm thickness	4
62	10.02.082P	Fir foot clamp for pipe Ø50	2
63	12.01.086S	Stop for pan on cross frame	1
64	16.03.769S	Chassis rear cover	1

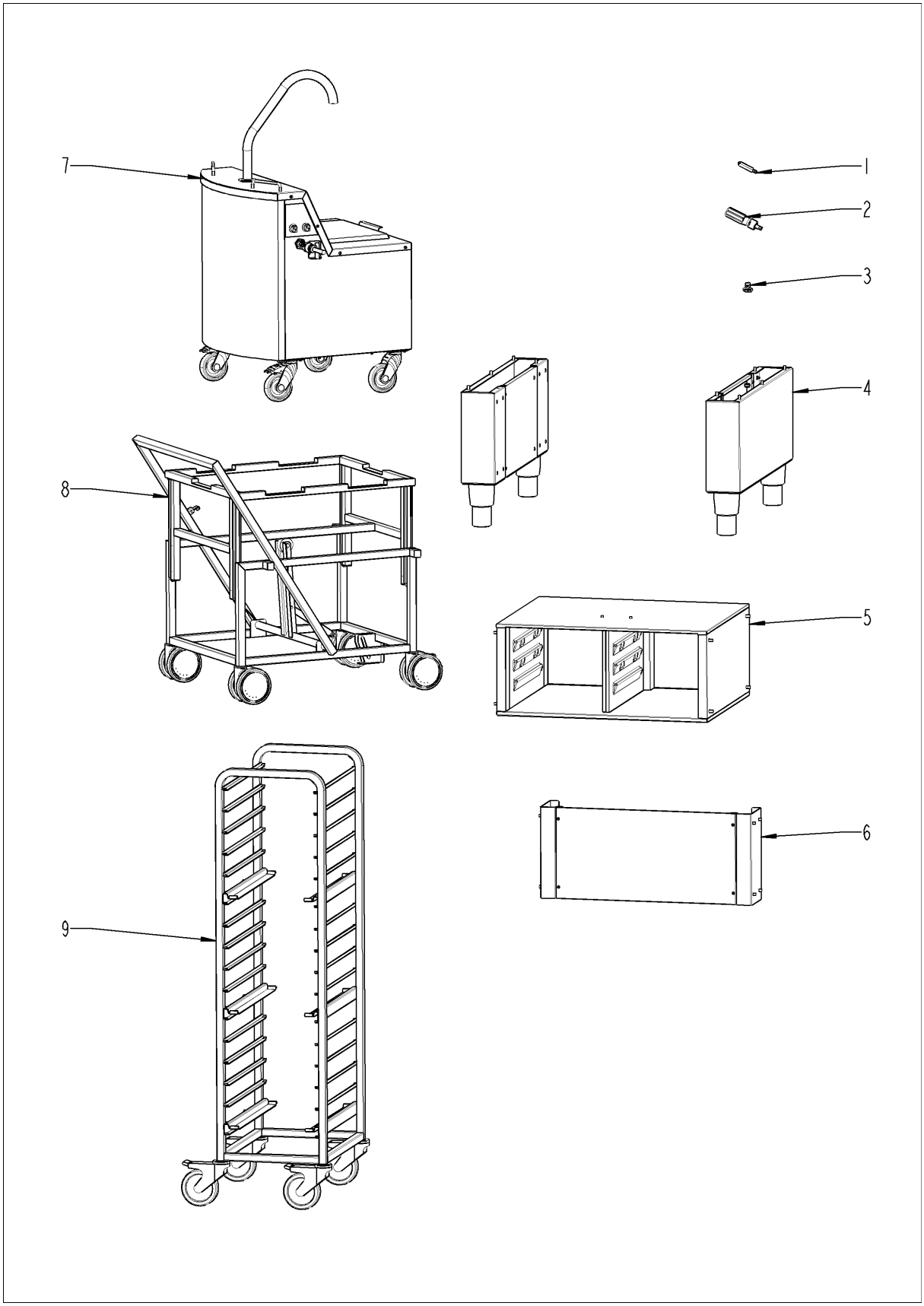
Underframe



Underframe

Pos.	Part no.	Description	Qty.
1	60.74.416P	Substructure body	2
2	60.74.474P	Substructure hatch	2
3	60.74.536P	Substructure bottom plate	2
4	10.01.616P	Pan head screw Torx T40 M8x16	10
5	10.01.851P	Collar nut M8 locking teeh	10
6	10.01.669P	Slot counter head secur screw M5X20 Phillips	4
7	10.01.928P	Plug 6.6 for threaded hole M8	20
8	12.00.205P	Upper part of pedestal	4
9	12.00.224P	Lower part of pedestal 110mm	4
10	10.01.953P	Socket cap screw M10x35 A2 Tuflok	4
11	87.01.793S	Retrofit substructure body assembly	1
20	12.03.051P	Adjustable stainless foot	4
30	60.74.680P	Castor without brake ø125mm	2
31	60.74.681P	Castor with brake ø125mm	2

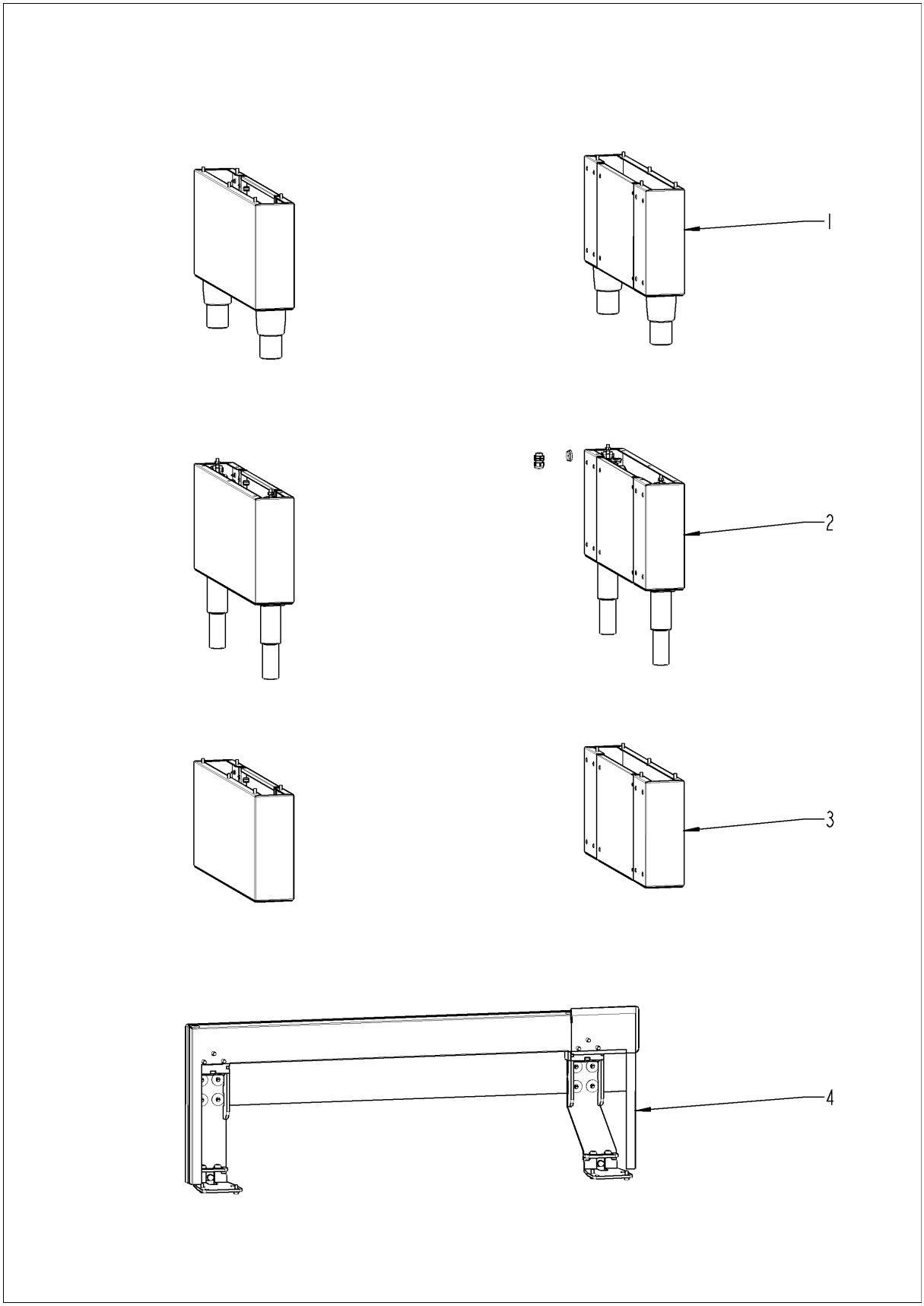
Accessories



Accessories

Pos.	Part no.	Description	Qty.
1	87.01.758	Memory-Stick USB iVario	1
2	W24001	Dynamometric screwdriver 4Nm	1
3	50.02.319P	Aerator service key	1
4		Installation variants	1
5		Storage space for substructure	1
6		Panelling for substructure	1
7		Oil cart	1
8		VarioMobil	1
9		Basket cart	1

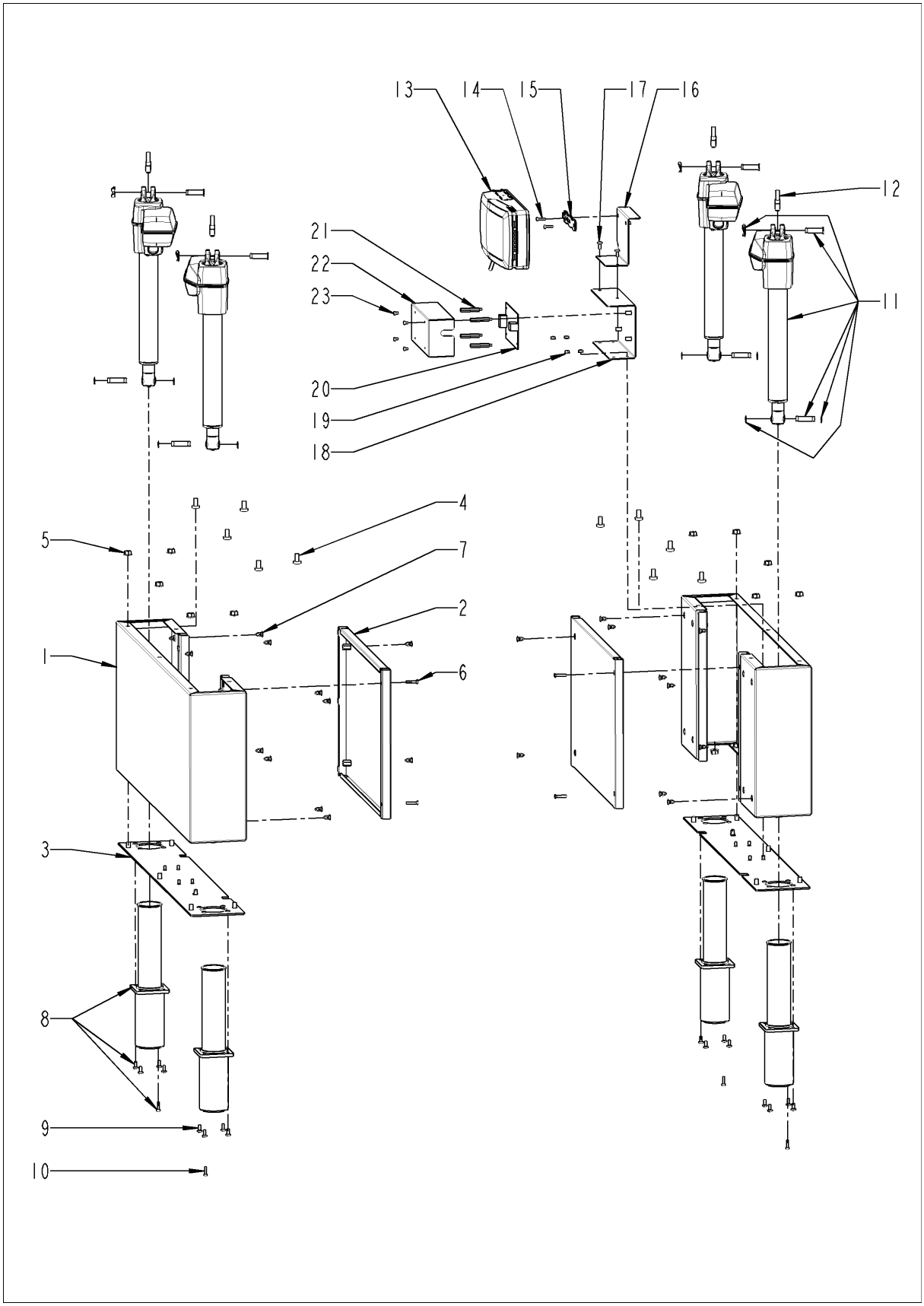
Installation variants



Installation variants

Pos.	Part no.	Description	Qty.
2		Stand with electric height adjustment	1
4		Wall attachment kit	1

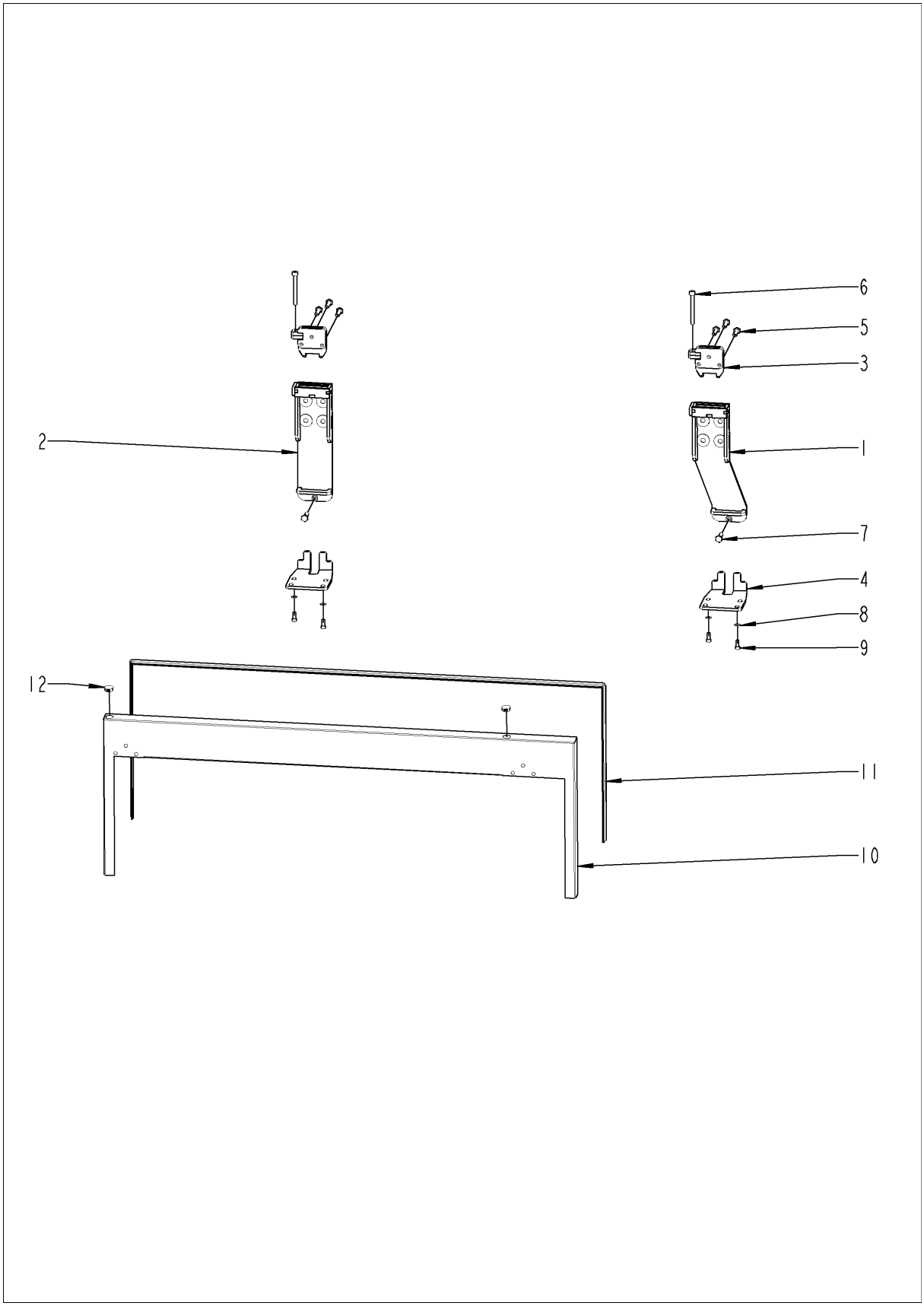
Stand with electric height adjustment



Stand with electric height adjustment

Pos.	Part no.	Description	Qty.
1	60.74.416P	Substructure body	2
2	60.74.474P	Substructure hatch	2
3	60.74.669P	Bottom plate for a height-adjustable substructure	2
4	10.01.616P	Pan head screw Torx T40 M8x16	10
5	10.01.851P	Collar nut M8 locking teeh	10
6	10.01.669P	Slot counter head secur screw M5X20 Phillips	4
7	10.01.928P	Plug 6.6 for threaded hole M8	20
8	60.74.713S	Telescopic foot	4
9	10.01.912P	Crosshead screw M5x12	16
10	10.01.778P	Pan head screw Torx M4x16	4
11	87.01.759S	Lifting cylinder for height adjustable substructure	1
12	60.74.853P	Eye socket with threaded shank M8x20	4
13	42.00.305S	Module CO61	1
14	10.01.778P	Pan head screw Torx M4x16	2
15	42.00.342P	Holder for module CO61	1
16	42.00.351P	CO61 module carrier	1
17	10.01.912P	Crosshead screw M5x12	2
18	42.00.344P	Converter holder part 1	1
19	10.01.054P	Hexagonal nut with notched flange M5	4
20	42.00.352P	RS232 converter for adjustable height	1
21	10.02.121P	Hexagonal spacer M4x40	4
22	42.00.375P	Converter protection cover	1
23	10.00.061P	Pan head screw Torx T20 M4x12	4
30	54.02.056P	Flexible drain pipe DN50	1
100	40.07.175P	Power + bus cable for height-adjustable substructure	1
102	40.06.762P	Short power supply cable height adjustable cylinder	2
103	40.06.763P	Cylinder connection cable to CO61 module	2
104	40.06.765P	Connection cable CO61 - RS232 converter	1

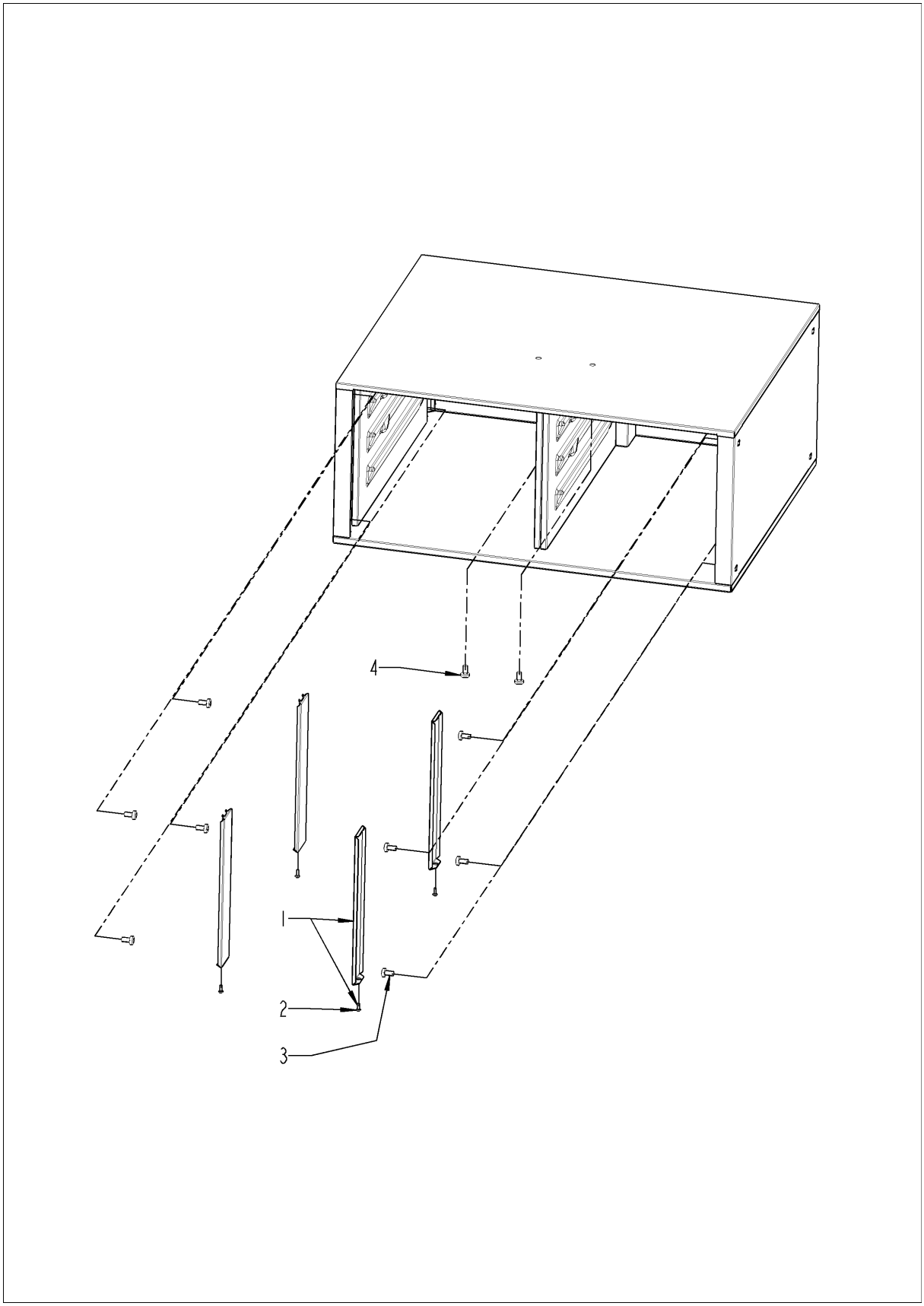
Wall attachment kit



Wall attachment kit

Pos.	Part no.	Description	Qty.
1	60.75.926P	Right wall bracket	1
2	60.75.944P	Left wall bracket	1
3	60.75.931P	Wall mounting hook	2
4	60.75.939P	Locking bracket	2
5	1010.0763P	Hex screw M10x40	6
6	10.02.084P	Allen screw M10x90	2
7	1010.0763P	Hex screw M10x40	2
8	1308.0160P	Washer M8 A2	4
9	10.01.241P	Allen screw M8x20	4
10	60.75.920P	Wall mounting panelling	1
11	60.75.984P	Wall mounting panelling gasket	1
12	10.02.190P	Blanking plug for Ø22.2mm	2

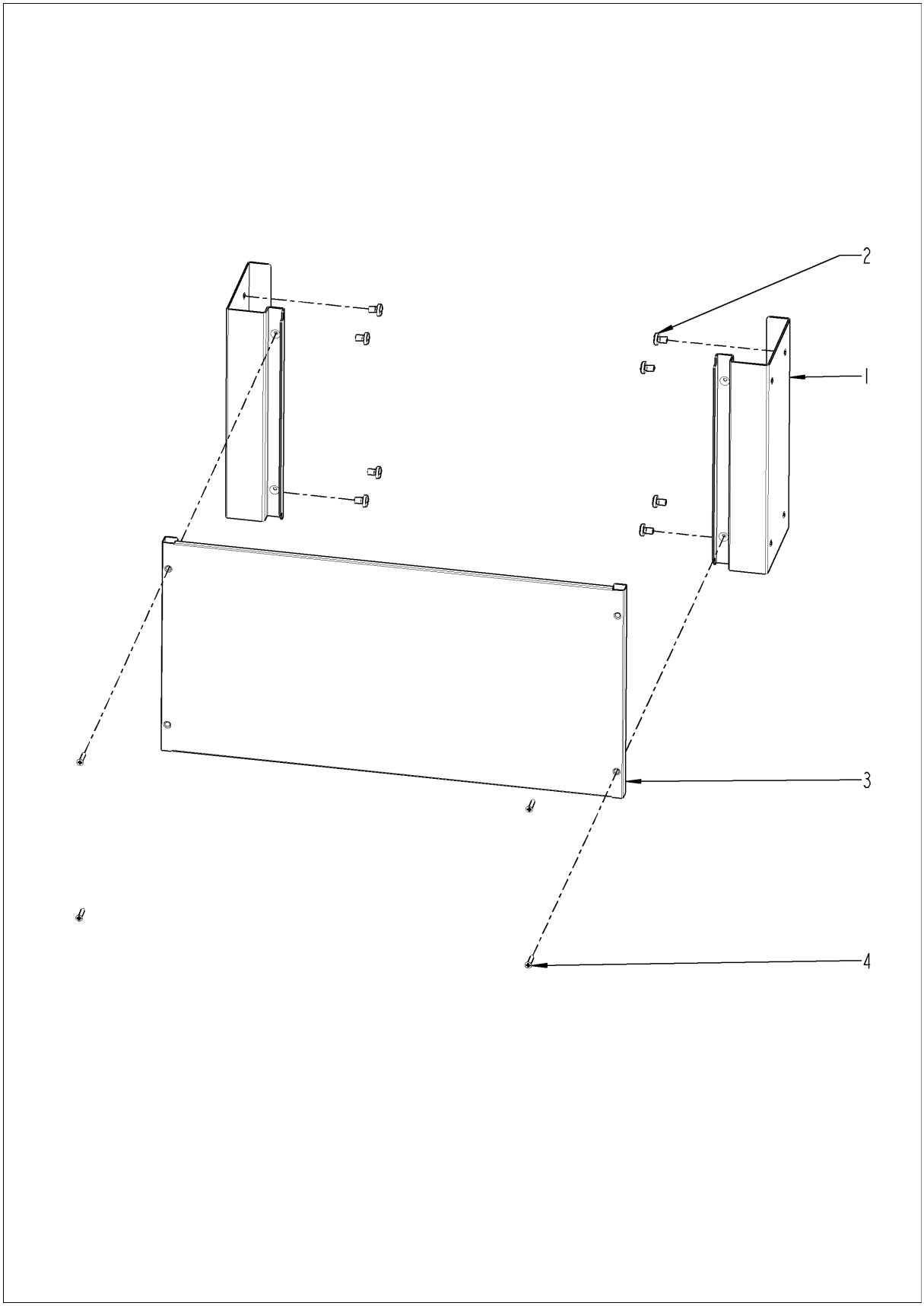
Storage space for substructure



Storage space for substructure

Pos.	Part no.	Description	Qty.
1	60.76.629S	Side hatch for storage space	4
2	10.01.776P	Pan head screw Torx T20 M4x12	4
3	10.01.616P	Pan head screw Torx T40 M8x16	8
4	10.02.033P	Hex screw M8x40	2

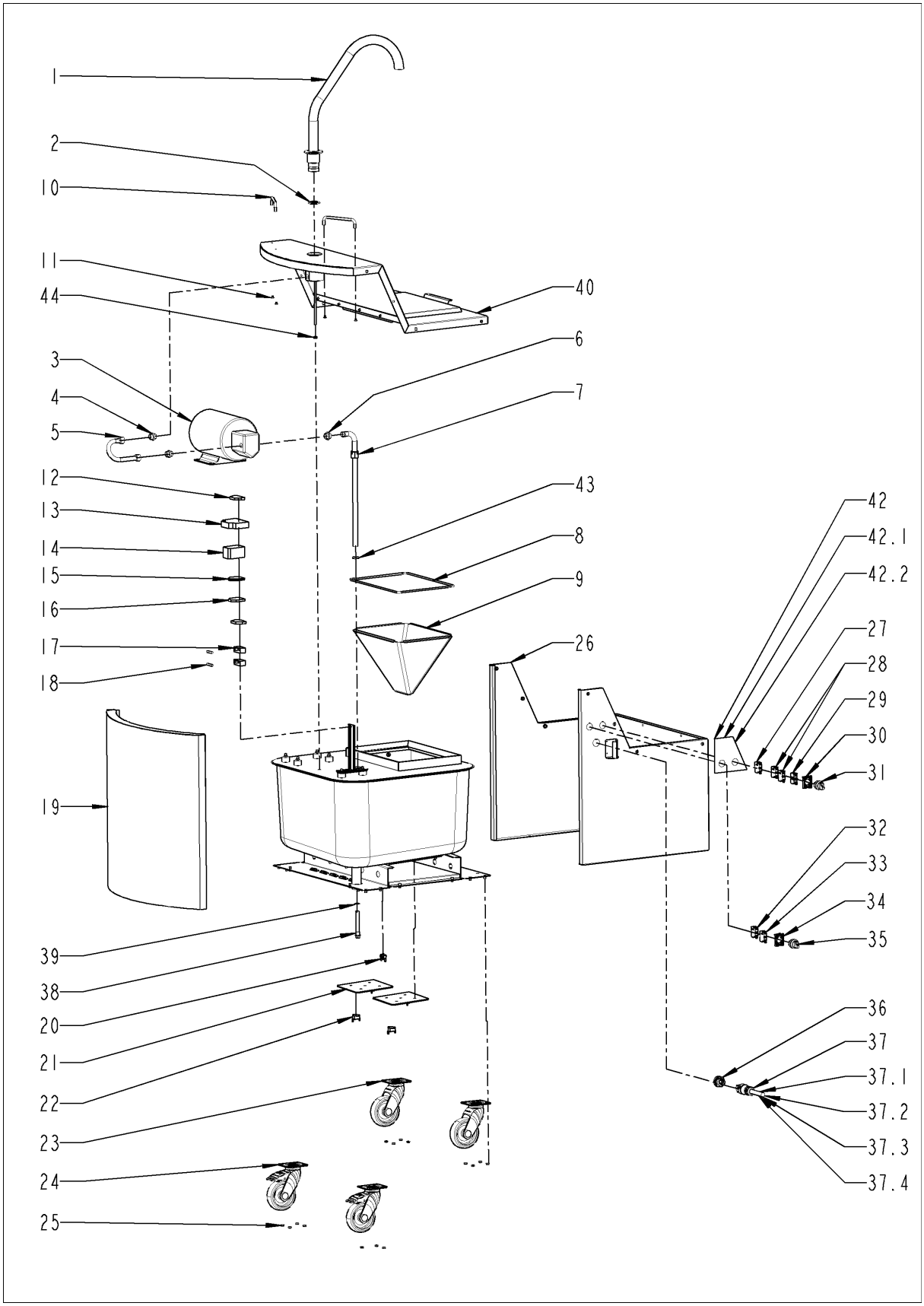
Panelling for substructure



Panelling for substructure

Pos.	Part no.	Description	Qty.
1	60.76.098P	Substructure panelling support	2
2	10.02.025P	Crosshead screw M8x12	8
3	60.76.100P	Substructure cover plate	1
4	10.01.669P	Slot counter head secur screw M5X20 Phillips	4

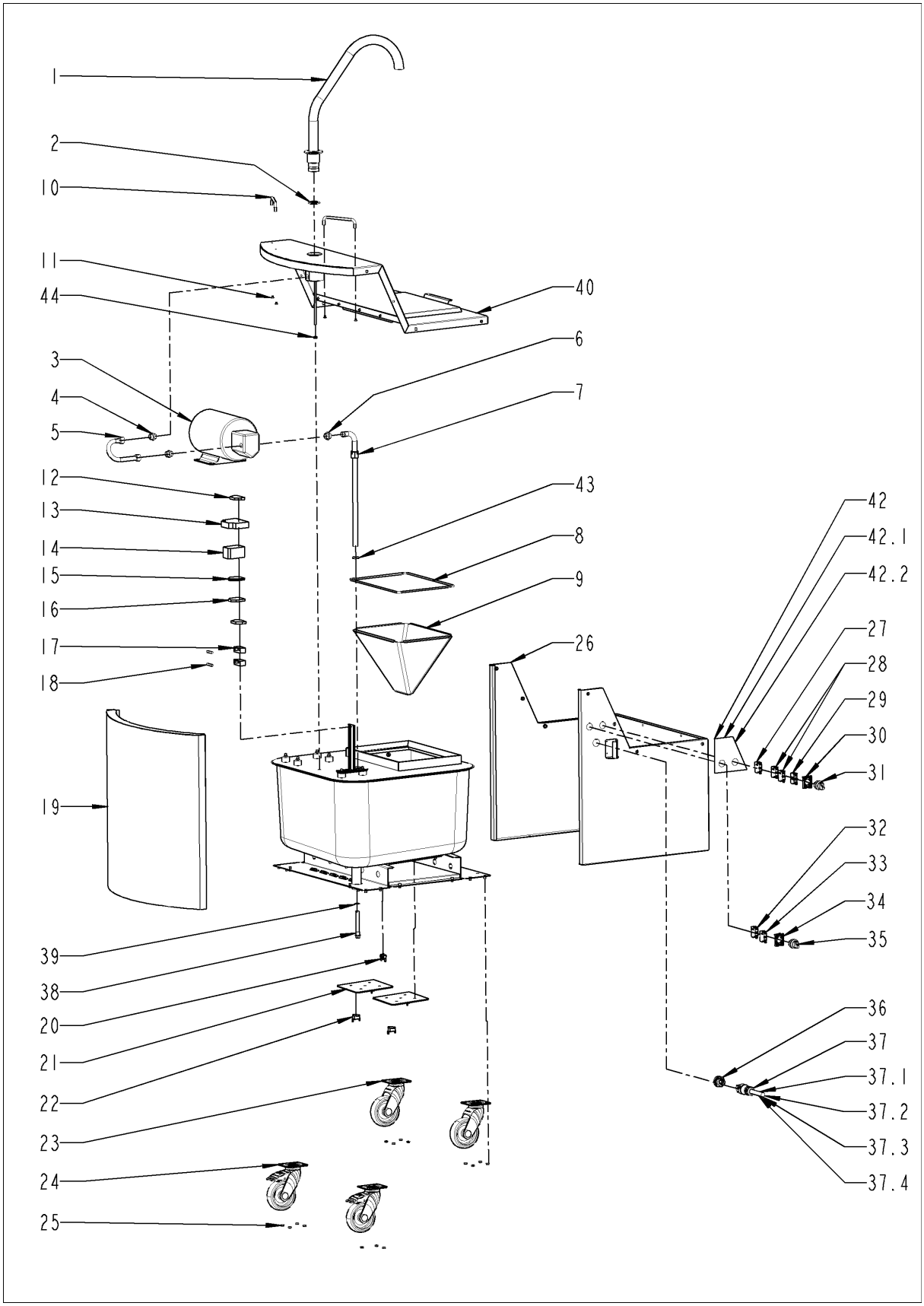
Oil cart


1
2
10
11
44
40
3
4
5
6
7
12
13
14
15
16
17
18
43
8
9
26
42
42.1
42.2
27
28
29
30
31
19
32
33
34
35
39
38
20
21
22
23
24
25
36
37
37.1
37.2
37.3
37.4

Oil cart

Pos.	Part no.	Description	Qty.
1	82.00.247	Kit filling pipe	1
1.01	82.00.674P	Filling pipe for 100mm extension	1
2	82.00.240	O-ring 34x3	1
3	82.00.235	Kit pump	1
4	82.00.243	Hex double nipple G 3/8"	2
5	82.00.291	Flexible pipe 350mm for oil troley	1
6	82.00.268	Hex nipple M3/8"-F1/4"	1
7	82.00.246	Suction pipe complete	1
8	60.71.850	Support of oil filter	1
9	60.71.599	Oil filter	1
10	2610.400279F	Handle	1
11	1004.0665F	Allen screw M4x6	2
12	82.00.250	End plate for mounting rail	2
13	82.00.254	Timing relay	1
14	40.02.917	Contactor 3TG1010-2AK2	1
15	82.00.248	Terminal block 4mm²	1
16	82.00.249	Terminal block 4mm² blue	1
17	82.00.251	Fuse holder	2
18	4001.0226V	Fuse 6.35x32mm 16A, time-lag	2
19	82.00.288	Round panel	1
20	40.02.337	Safety temperature limiter 215°C	1
21	82.00.265	Kit heating element	1
22	82.00.261	Klixon 240°	2
23	82.00.230	Castor without brake	2
24	82.00.231	Castor with brake	2
25	1105.0121V	Hex combination nut M5 galv	16
26	82.00.289	External panel	1
27	82.00.259	Contact NC	1
28	82.00.258	Contact NO	2
29	82.00.260	Blue Led indicator	1
30	82.00.257	Adaptator for contact element	1
31	82.00.255	Selector 2 positions lighted	1
32	82.00.258	Contact NO	1
33	82.00.259	Contact NC	1
34	82.00.257	Adaptator for contact element	1
35	82.00.256	Selector 3 positions spring return	1

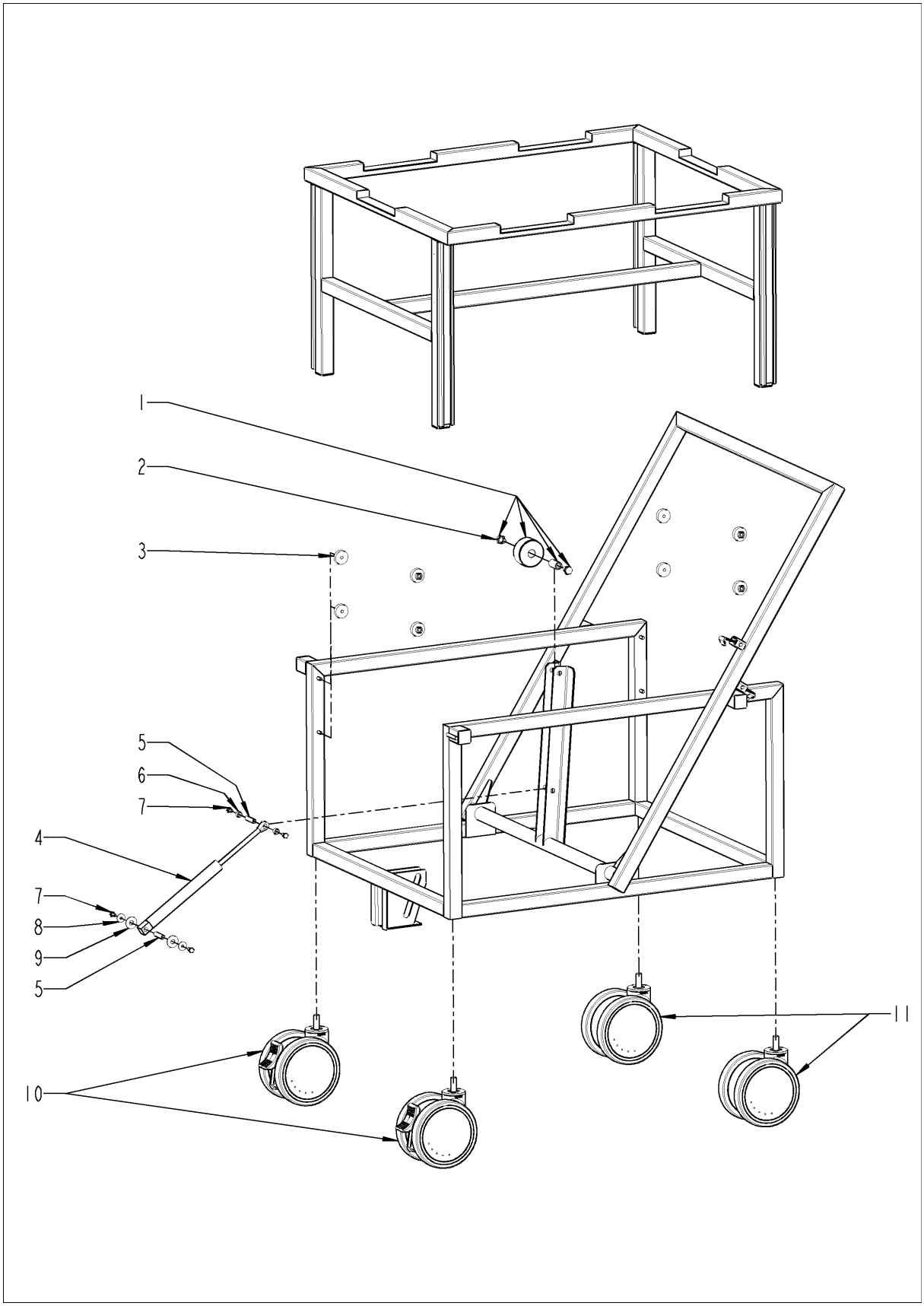
Oil cart


1
2
10
11
44
40
3
4
5
6
7
12
13
14
15
16
17
18
43
8
9
26
42
42.1
42.2
27
28
29
30
31
19
32
33
34
35
39
38
20
21
22
23
24
25
36
37
37.1
37.2
37.3
37.4

Oil cart

Pos.	Part no.	Description	Qty.
36	82.00.300	Connector for socket-outlet	1
37	40.04.518	Spiral cable FR/DE	1
37.1	40.04.519	Spiral cable UK	1
37.2	40.04.520	Spiral cable CH	1
37.3	40.04.522	Spiral cable AUS	1
37.4	40.04.521	Spiral cable DK	1
38	60.74.412	Drain plug oil reserve	1
39	60.99.244	Drain plug gasket	1
40	60.71.704	Lid complete oil cart	1
41	82.00.617	Insulation set for oil cart	1
42	82.00.363	Overlay FRIMA oil cart	1
42.1	60.74.940	Overlay RATIONAL oil cart	1
42.2	82.00.234	Overlay OEM oil cart	1
43	40.03.330P	Cable grommet Ø16	1
44	40.03.331P	Cable grommet Ø10	1

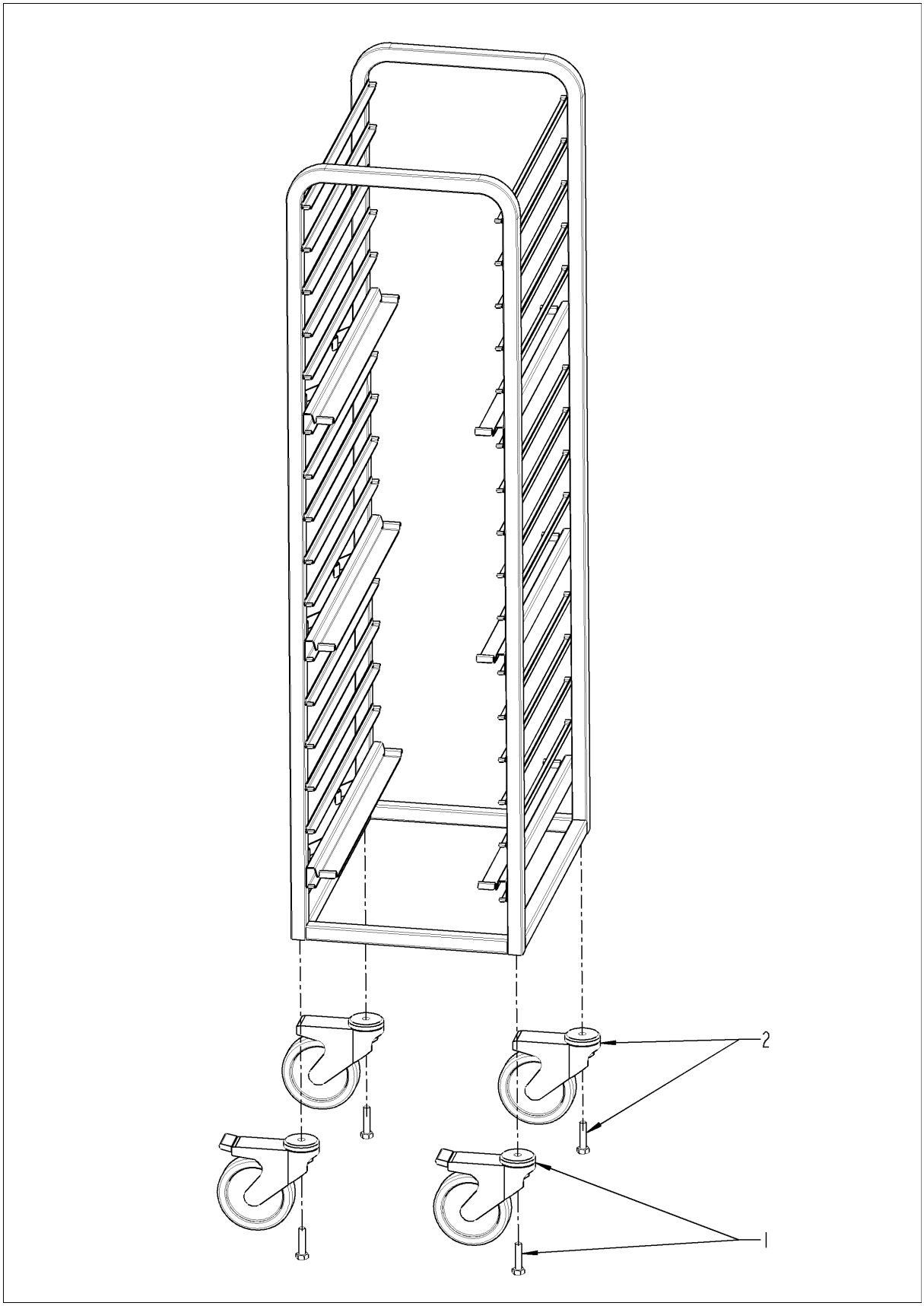
VarioMobil



VarioMobil

Pos.	Part no.	Description	Qty.
1	87.01.840S	Lifting roller with axle	1
2	10.00.280P	Screw HM 8x12 A2	2
3	60.70.131P	Roller 25/6.5 HM5 stainless steel	8
4	40.00.631S	Gas spring 350N	1
5	60.71.142P	Cylinder axis	2
6	10.01.538P	Spacer D10x6x1mm	1
7	1008.0752P	Hex screw M5x10	4
8	10.00.178P	Washer M5	2
9	1308.0162P	Washer A8,4	2
10	60.74.681P	Castor with brake ø125mm	2
11	60.74.680P	Castor without brake ø125mm	2

Basket cart



Basket cart

Pos.	Part no.	Description	Qty.
1	60.71.146	Castor with brake ø125mm, screw M12	2
2	60.71.147	Castor without brake ø125mm, screw M12	2

Repair and retrofit kit

Repair and retrofit kit

Pos.	Part no.	Description	Qty.
1	87.01.814S	Kit connection to energy optimiser	1
2	87.01.792S	Retrofit kit interface Ethernet	1
3	87.01.821S	Potential free contact adapter kit	1
4	87.01.833S	Hand shower removal kit	1
5	87.01.848S	Retrofit kit lockable control panel RATIONAL	1
6	87.01.818S	Differential Switch-Adapter-Kit "Australia"	1
6	87.01.820S	Differential Switch-Adapter-Kit	1
7	87.01.901S	Retrofit kit hot water option	1
10	87.01.783S	Repair kit for technical box thread	1
11	87.01.822S	Control panel fixing repair kit	1
12	87.01.875S	Loudspeaker kit SL70 8W	1
13	87.01.876S	CPU fan retro fit kit	1
14	87.01.865S	Pressure sensor grounding kit	1

Index

Part no.	Description	Page
40.07.421S	80mm fan protection grill with mounting set	7
82.00.257	Adaptator for contact element	39
40.07.635P	Adapter harness for I/O board A13	7
12.03.051P	Adjustable stainless foot	25
50.02.319P	Aerator service key	27
50.02.248S	Aerator with service key	15
1004.0665F	Allen screw M4x6	39
10.01.241P	Allen screw M8x20	33
10.02.084P	Allen screw M10x90	33
52.00.017P	Angle plug PS3 6-6-90°	9, 13
24.04.358S	Arm raising lid	17
40.02.641P	Auxilliary contact B&J HN10 N/O	7
16.03.830P	Back panel for pan	19
20.03.331S	Bearing for pan	17
20.02.892P	Bearing left for pan	17
10.02.190P	Blanking plug for Ø22.2mm	33
82.00.260	Blue Led indicator	39
60.74.669P	Bottom plate for a height-adjustable substructure	31
40.06.103P	Bus cable 0,7m	5
40.07.636P	Bus cable for A13 I/O board	7
50.00.680P	Bushing PP D50/D40	13
40.06.760P	Cable control pcb - capacitive switch	5
40.06.569P	Cable CPU - TFT	5
12.02.440S	Cable gland mounting plate	23
40.03.331P	Cable grommet Ø10	41
40.03.330P	Cable grommet Ø16	41
10.02.376P	Cable tie 160mm with fir base	7
10.01.862P	Cage nut M5 for 1.7 up to 2.5mm	5
82.00.231	Castor with brake	39
60.74.681P	Castor with brake ø125mm	25, 43
60.71.146	Castor with brake ø125mm, screw M12	45
82.00.230	Castor without brake	39

Index

Part no.	Description	Page
60.74.680P	Castor without brake ø125mm	25, 43
60.71.147	Castor without brake ø125mm, screw M12	45
12.02.449P	Chassis left 211/311	23
16.03.769S	Chassis rear cover	23
12.02.937P	Chassis right	23
50.00.156P	Clamp f. hand shower roll guide	9
42.00.351P	CO61 module carrier	31
10.01.851P	Collar nut M8 locking teeh	17, 23, 25, 31
20.03.696P	Connecting link ISO06B-1 Form E	19
40.06.765P	Connection cable CO61 - RS232 converter	31
87.01.616S	Connection pipe hand shower roll guide	9
82.00.300	Connector for socket-outlet	41
82.00.259	Contact NC	39
82.00.258	Contact NO	39
40.02.917	Contactor 3TG1010-2AK2	39
40.06.455P	Contactor K3-40B00 190R T AZ	7
54.01.978P	Control chamber	13
40.06.093P	Control harness	7
87.01.822S	Control panel fixing repair kit	47
16.03.565P	Control panel RATIONAL	5
42.00.251P	Control pcb (w/o SD-Card)	5
87.00.674	Conversion kit heating element 2287W 230V	19
42.00.344P	Converter holder part 1	31
42.00.375P	Converter protection cover	31
40.06.806S	Cooling fan	7
10.01.923P	Counter head screw M5x45 DIN965-H	11
24.04.455S	Cover bearing	17
24.04.054P	Cover for pressure connection	15
24.04.418S	Cover shaft	17
87.01.876S	CPU fan retro fit kit	47
10.01.912P	Crosshead screw M5x12	11, 23, 31
10.02.025P	Crosshead screw M8x12	37

Index

Part no.	Description	Page
60.71.142P	Cylinder axis	43
40.06.763P	Cylinder connection cable to CO61 module	31
10.01.826P	Cylinder head screw torx T40 M8x30	17
16.03.756P	Dial f. pulse generator	5
87.01.820S	Differential Switch-Adapter-Kit	47
87.01.818S	Differential Switch-Adapter-Kit "Australia"	47
42.00.287P	Display *TFT*	5
40.06.933P	Double level earth terminal 6mm² yellow/green	7
40.06.426P	Double level terminal block 16mm² blue	7
50.02.063P	Double solenoid valve block with flowmeter	9
60.99.244	Drain plug gasket	41
60.74.412	Drain plug oil reserve	41
W24001	Dynamometric screwdriver 4Nm	27
40.06.626P	Earth terminal WKFN 16 D1/2/SL/35	7
54.00.575P	Elbow-pipe PP DN40 87.5°	13
54.00.560P	Elbow-pipe PP DN50 87°	13
42.00.322P	Electronic noice filter	7
40.07.121P	End flask for block APFN 16 D1/2/35	7
4001.1203P	End plate for mounting rail	7
82.00.250	End plate for mounting rail	39
82.00.289	External panel	39
60.74.853P	Eye socket with threaded shank M8x20	31
87.01.617S	Filling nozzle left cover	15
82.00.674P	Filling pipe for 100mm extension	39
10.02.082P	Fir foot clamp for pipe Ø50	23
50.02.114P	Fitting 3/4" M/M	9
10.01.339P	Fixing Elastomer	7
50.02.325P	Fixing nut 3/4"	9
10.02.168P	Fixture security for gas spring	17
24.02.753P	Flange Bearing GSM-0809-08	17
54.01.962P	Flat gasket 20x13,5x2mm	15
54.02.056P	Flexible drain pipe DN50	31

Index

Part no.	Description	Page
82.00.291	Flexible pipe 350mm for oil troley	39
40.07.208P	Flowmeter cable	9
16.03.491P	Front panel console	11
16.03.878P	Front panel cover for USB assembly	11
16.03.711P	Front panel for pan	19
20.03.656S	Front reinforcement of pan headband	19
4001.0226V	Fuse 6.35x32mm 16A, time-lag	39
82.00.251	Fuse holder	39
40.00.631S	Gas spring 350N	43
20.03.743P	Gas spring 900N	17
10.02.267P	Gasket 3x10mm	19
20.03.705P	Gasket for lid locking assembly	19
20.00.993P	Gasket for plug pan valve	19
50.02.324P	Gasket for water supply coupling 38x28	9
87.01.774S	Gasket kit for control panel cable	5
20.01.518P	Graphit plate for safety temperature limiter	19
12.02.971S	Guide tube for a supply cable	23
87.01.833S	Hand shower removal kit	47
52.00.127S	Hand shower black	9
52.00.143P	Hand shower roll guide	9
52.00.105P	Hand shower roll guide water supply	9
2610.400279F	Handle	39
40.06.428P	Heat sink 1 SSR	7
82.00.268	Hex nipple M3/8"-F1/4"	39
1105.0121V	Hex combination nut M5 galv	39
82.00.243	Hex double nipple G 3/8"	39
1008.0752P	Hex screw M5x10	43
10.02.033P	Hex screw M8x40	35
10.00.750P	Hex screw M8x70	17
1010.0763P	Hex screw M10x40	33
10.01.808P	Hex socket countersunk head screw M5x16	15, 19
10.01.833P	Hexagon socket set screws with flat point M8x14	17

Index

Part no.	Description	Page
10.01.054P	Hexagonal nut with notched flange M5	31
10.02.121P	Hexagonal spacer M4x40	31
42.00.342P	Holder for module CO61	31
50.02.072P	Holding spring	13
10.01.132P	Hose clamp clic R86-140	15
10.02.239P	Hose clamp clic R86-145	9
10.02.087P	Hose clamp clic R96-285	15
10.02.240P	Hose clamp clic R96-290	13, 15
2070.0048P	HT drain T-fitting 50mm	13
42.00.413P	I/O movement PCB A13	7
20.03.382S	Inner bearing for pan	17
16.04.064P	Inner protective cover of the control panel	5
24.04.046P	Inspection cover for lid	15
82.00.617	Insulation set for oil cart	41
40.06.583P	Interface cable USB 1,4m	5, 11
87.01.814S	Kit connection to energy optimiser	47
82.00.247	Kit filling pipe	39
82.00.265	Kit heating element	39
87.01.607S	Kit pan with pressure	19
82.00.235	Kit pump	39
82.00.261	Klixon 240°	39
87.01.563S	Left module for sensors	15
60.75.944P	Left wall bracket	33
24.03.581P	Lid	15
24.04.424S	Lid bearing with sealing ring	17
60.71.704	Lid complete oil cart	41
24.04.954P	Lid gasket	15
87.01.564S	Lid locking assembly	19
20.03.323S	Lift arm for pan	17
87.01.759S	Lifting cylinder for height adjustable substructure	31
24.04.352S	Lifting cylinder for lid	17
20.03.297S	Lifting cylinder for pan	17

Index

Part no.	Description	Page
87.01.840S	Lifting roller with axle	43
60.75.939P	Locking bracket	33
40.07.372P	Locking device for heat sink	7
24.04.432P	Locking orifice plug	15
40.06.076P	Loudspeaker cable	5
40.06.728P	Loudspeaker K 64 WPTR	5
87.01.875S	Loudspeaker kit SL70 8W	47
16.03.489P	Lower panel for pan	19
12.00.224P	Lower part of pedestal 110mm	25
24.02.804P	Magnet 22x10mm	11
40.06.458P	Magnetic contact	19
20.03.667S	Magnetic contact support	19
40.06.881P	Master-slave connection cable	19
20.03.342S	Master-slave link assembly	19
40.07.165S	Meat probe sensor	15
87.01.758	Memory-Stick USB iVario	27
42.00.359P	Micro SD card	5
42.00.305S	Module CO61	31
20.03.254P	Mounting piece for pan panel	21
20.03.600P	O-ring 9.8x1.5	19
82.00.240	O-ring 34x3	39
10.00.675P	O-ring f. pan valve 17.3 x 2.4	19
54.02.082P	O-ring for ball valve 21,5 x 3	15
60.71.599	Oil filter	39
16.04.204S	On-Off sensor support	5
82.00.363	Overlay FRIMA oil cart	41
82.00.234	Overlay OEM oil cart	41
60.74.940	Overlay RATIONAL oil cart	41
87.01.603S	Pan clamping bearing assembly	17
20.03.500P	Pan drain hose	13
20.03.475P	Pan front insulation	21
10.01.778P	Pan head screw Torx M4x16	31

Index

Part no.	Description	Page
10.00.061P	Pan head screw Torx T20 M4x12	31
10.01.776P	Pan head screw Torx T20 M4x12	35
10.01.616P	Pan head screw Torx T40 M8x16	17, 23, 25, 31, 35
20.03.504P	Pan reinforcement	19
20.03.190S	Pan shaft	17
20.03.450S	Pan valve cable pan left	19
54.00.755P	Pipe PP DN50 x 250	13
10.02.198P	Plastic spacer 7mm for 3mm thickness	23
10.01.336P	Plastic spacer 7mm 12	7
10.01.928P	Plug 6.6 for threaded hole M8	25, 31
20.01.653S	Plug for pan valve with gasket	19
50.00.085P	Plug-in spring f. hand shower roll guide	9
87.01.821S	Potential free contact adapter kit	47
40.07.175P	Power + bus cable for height-adjustable substructure	31
40.05.947P	Power harness heating element	21
40.06.713P	Power supply	7
54.00.567P	PP-Pipe DN40 x 150mm	13
54.00.564P	PP-Pipe DN50 x 150mm	13
87.01.836S	Pressure control valve	15
54.01.771P	Pressure sensor	15
87.01.865S	Pressure sensor grounding kit	47
54.01.751S	Pressure switch 20 mbar	15
54.01.878S	Pressure switch 350 mbar	15
10.01.906P	Printed circuit board holder, clip-on H=6mm	7
42.00.356P	Protection board for socket outlet protection	11
40.00.404P	Pulse generator	5
10.02.263P	Raised countersunk head screw Torx M4x10 T20	7
42.00.311P	Relay-I/O pcb A10	7
12.02.939P	Removable part of the right frame	23
87.01.783S	Repair kit for technical box thread	47
87.01.901S	Retrofit kit hot water option	47
87.01.792S	Retrofit kit interface Ethernet	47

Index

Part no.	Description	Page
87.01.848S	Retrofit kit lockable control panel RATIONAL	47
87.01.793S	Retrofit substructure body assembly	25
60.75.926P	Right wall bracket	33
60.70.131P	Roller 25/6.5 HM5 stainless steel	43
82.00.288	Round panel	39
42.00.352P	RS232 converter for adjustable height	31
40.04.501P	Safety temperature limiter 130°	19
40.02.337P	Safety temperature limiter 215°C	19
40.02.337	Safety temperature limiter 215°C	39
40.04.370P	Safety temperature limiter heating element	19
10.00.280P	Screw HM 8x12 A2	43
40.00.701S	Screwed cable gland polyamid PG40	7, 23
16.03.706P	Sealing device for left panel	19
82.00.255	Selector 2 positions lighted	39
82.00.256	Selector 3 positions spring return	39
42.00.346P	Sensor on / off	5
40.06.578P	Set of power supply cables for pan and lid cylinders	17
20.02.653S	Shaft hoist swing shaft 10x38	17
20.01.587S	Sheath for pan valve	19
40.06.762P	Short power supply cable height adjustable cylinder	31
12.02.531P	Shower roll guide holder	23
16.04.236P	Shutter sticker option without differential protection	11
60.76.629S	Side hatch for storage space	35
16.03.553P	Side panel left for console	11, 23
16.03.372P	Side panel left of pan	19
16.03.554P	Side panel right for console	11
16.03.556P	Side panel right of pan	19
24.04.940P	Silicon hose ø10x3mm	9, 15
24.04.939P	Silicone hose diameter 20/26mm	13, 15
10.01.468P	Sintered bronze bushings	17
10.01.669P	Slot counter head secur screw M5X20 Phillips	9, 25, 31, 37
40.01.410P	Socket 2P+T 16A (Germany)	11

Index

Part no.	Description	Page
10.00.144P	Socket cap screw M3x16mm	7
10.01.953P	Socket cap screw M10x35 A2 Tuflok	25
16.03.997P	Socket flap	11
40.05.670P	Solid state relais	7
40.05.840P	Solid state relais	7
10.01.538P	Spacer D10x6x1mm	43
20.01.508P	Spacer for safety temperature limiter	19
10.01.907P	Spacer Ø int = 3,2mm, H = 6mm	7
40.04.522	Spiral cable AUS	41
40.04.520	Spiral cable CH	41
40.04.521	Spiral cable DK	41
40.04.518	Spiral cable FR/DE	41
40.04.519	Spiral cable UK	41
24.05.622P	Spring stop	13
20.03.024P	Stop for pan	19
12.01.086S	Stop for pan on cross frame	23
60.74.416P	Substructure body	25, 31
60.74.536P	Substructure bottom plate	25
60.76.100P	Substructure cover plate	37
60.74.474P	Substructure hatch	25, 31
60.76.098P	Substructure panelling support	37
82.00.246	Suction pipe complete	39
60.71.850	Support of oil filter	39
54.01.985P	T-fitting D10	9
60.74.713S	Telescopic foot	31
82.00.248	Terminal block 4mm²	39
82.00.249	Terminal block 4mm² blue	39
40.06.252P	Termination resistor	7
87.00.339	Thermocouple for heating element	19
40.05.933P	Thermocouple harness	21
40.06.857S	Thermocouple pan left	19
82.00.254	Timing relay	39

Index

Part no.	Description	Page
20.03.630S	Transverse pan reinforcement	19
12.00.205P	Upper part of pedestal	25
40.06.045P	USB socket cover	11
20.03.466P	V-profile gasket	21
60.75.931P	Wall mounting hook	33
60.75.920P	Wall mounting panelling	33
60.75.984P	Wall mounting panelling gasket	33
1308.0162P	Washer A8,4	43
10.00.178P	Washer M5	43
1308.0160P	Washer M8 A2	17, 33
1900.0202P	Water filter	9
50.02.094P	Water supply pipe	9
12.02.399P	X-ring 55x5.33	17
12.02.398P	X-ring 85x5.33	17

RATIONAL Aktiengesellschaft
Siegfried-Meister-Straße 1
86899 Landsberg am Lech
Germany