Service part catalogue

Modell CM 102

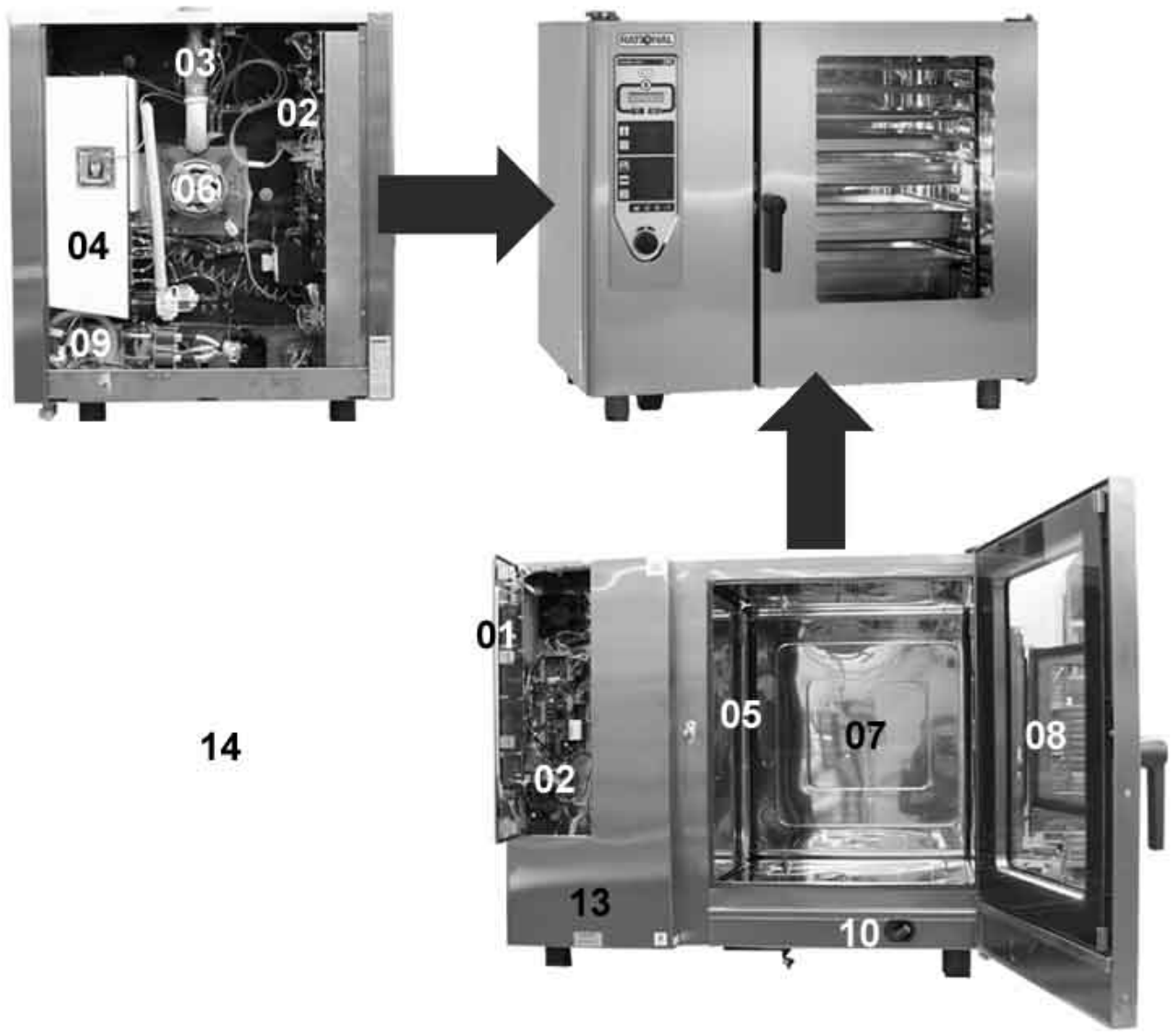
E12MD0112



20.04.2021
3 AC 208V 60Hz

Kat-RTS_140922
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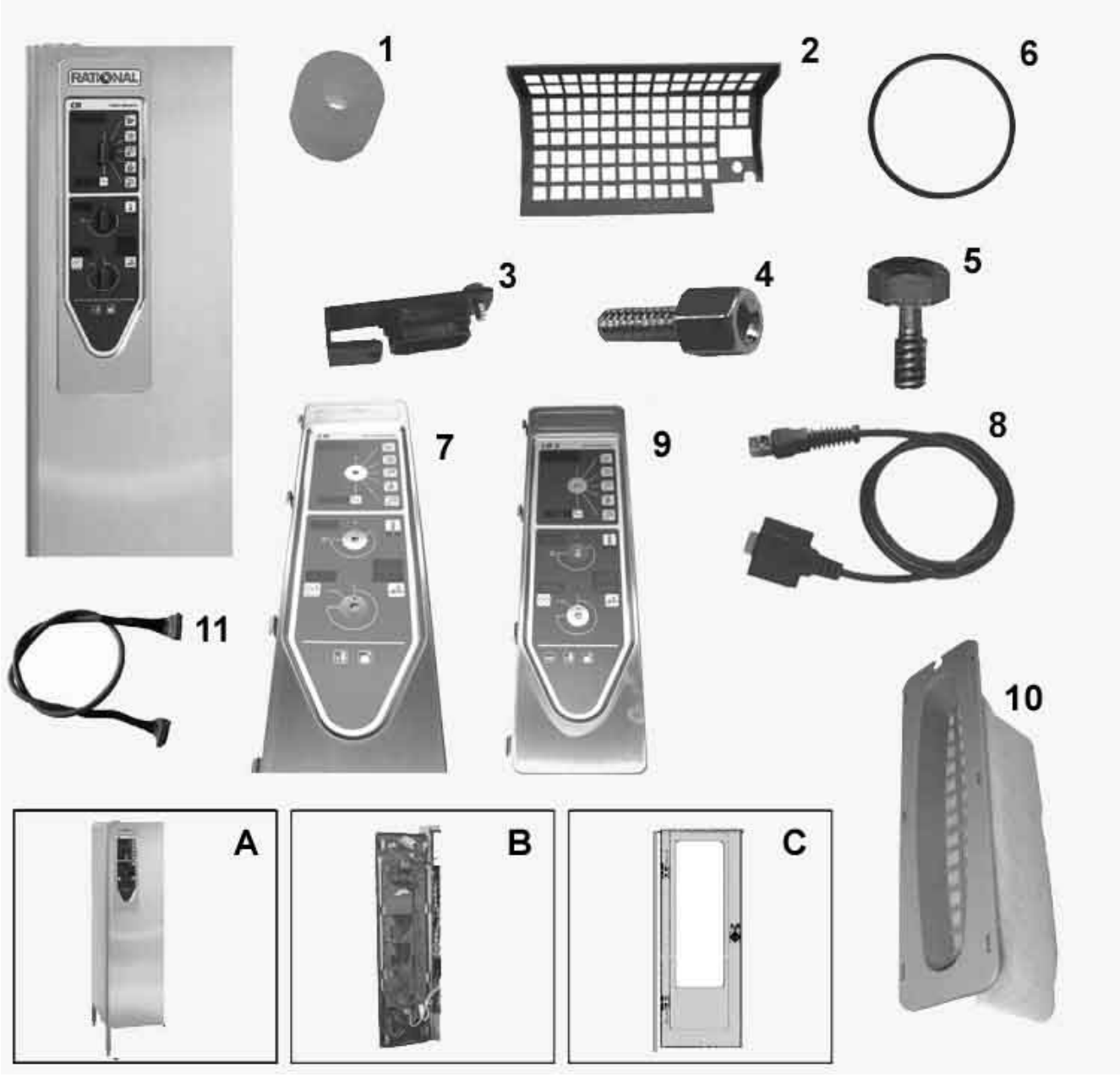
Overview



Overview

Pos.	Assembly	Page
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Control panel



Control panel

Pos.	Part no.	Description	Qty.
3	3040.0304	Protection cover for RS232 connection	
10	8455.1377	Air inlet filter	
B		Panel insert	

Panel insert







Panel insert

Pos.	Part no.	Description	Qty.
1	1106.0160	Hex nut M6	
2	1206.0120	Tooth lock washer A6,4	
A		Panel insert	

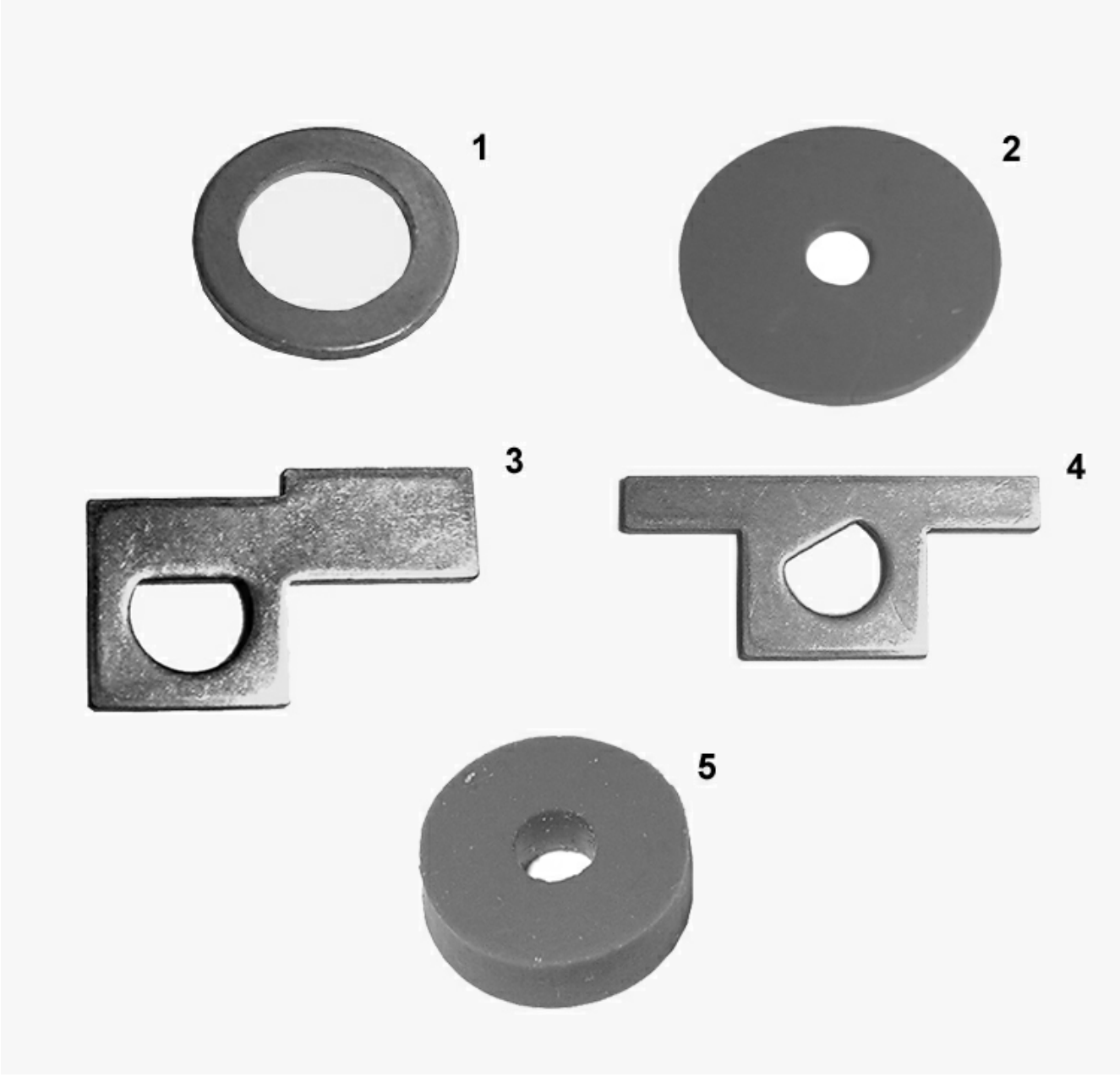
Panel insert



Panel insert

Pos.	Part no.	Description	Qty.
1	1103.0120	Hex nut M3	
2	1104.0121	Hex nut M4 self locking	
3	1304.0160	Washer A4,3	
4	1306.0218	Washer A4,3	
5	2039.0326	Spacer for pcb	
6	2052.1180	Sticker name trade sign Rational	
7	3006.0107	Buzzer	
8	3013.0344	Dial blue,	
9	4005.0103	Tie rap black	
9	4005.0101	Tie rap 145 mm	
10	5100.1011	Gasket	
11	5110.1027	Distance plate for front panel	
12	5110.1028	Gasket poti hot air, core temperature	
13	8720.1300	Bus cable CPU - operator pcb	
15	8720.1302	Power supply cable for operator pcb	
16	1603.0166	Rivet 3,2x7,9 CNS closed	
A	3040.3010	Operator pcb Electrical	

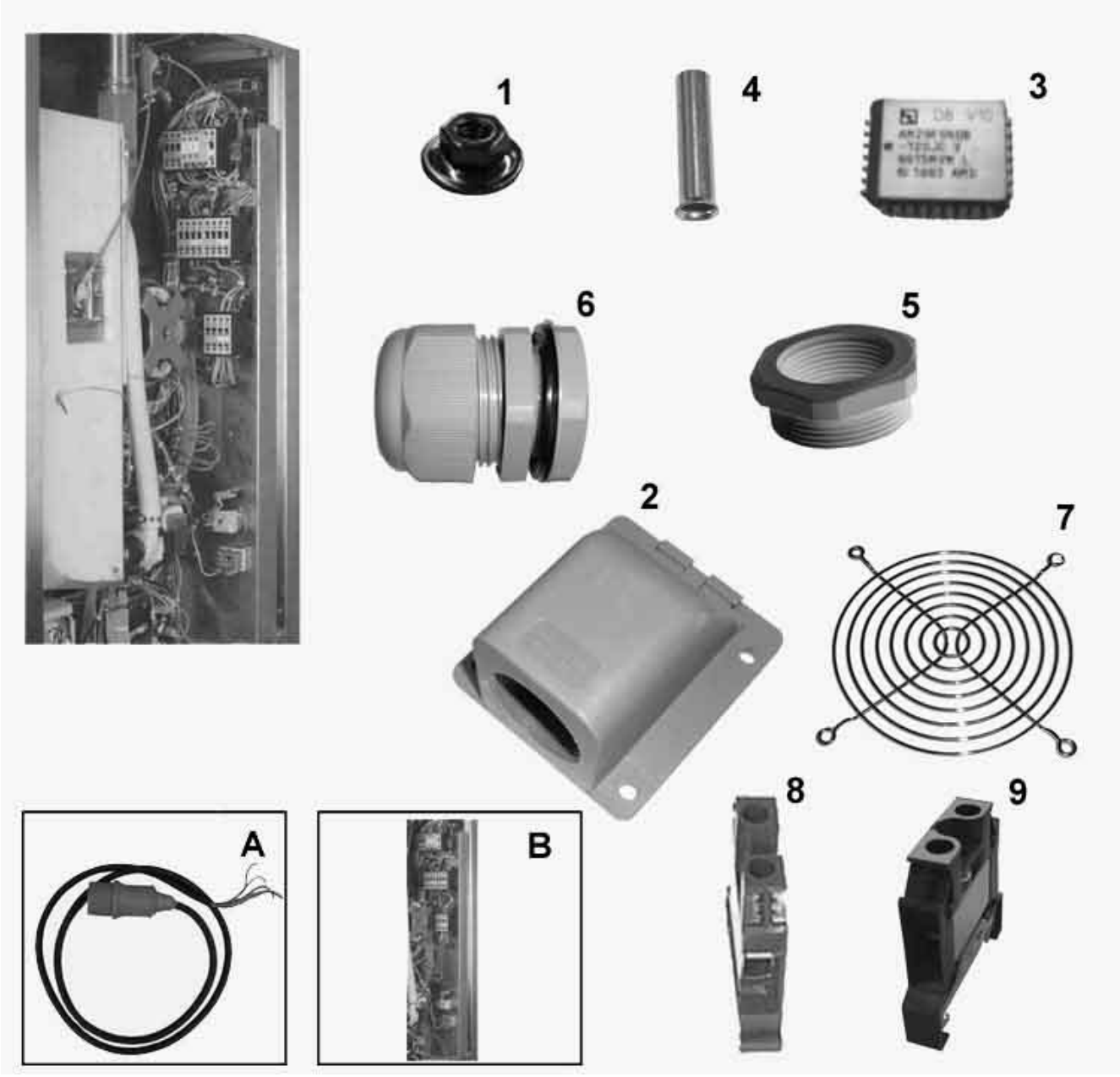
Operator pcb Electrical



Operator pcb Electrical

Pos.	Part no.	Description	Qty.
1	1315.0101	Copper washer 6x10	
2	5110.1029	Gasket mode switch	
3	2760.1100	Stop for Poti-Core temperature	
4	2760.1129	Stop for mode switch	
5	2022.0100	Silicone gasket red, for PG 9 15x4mm	

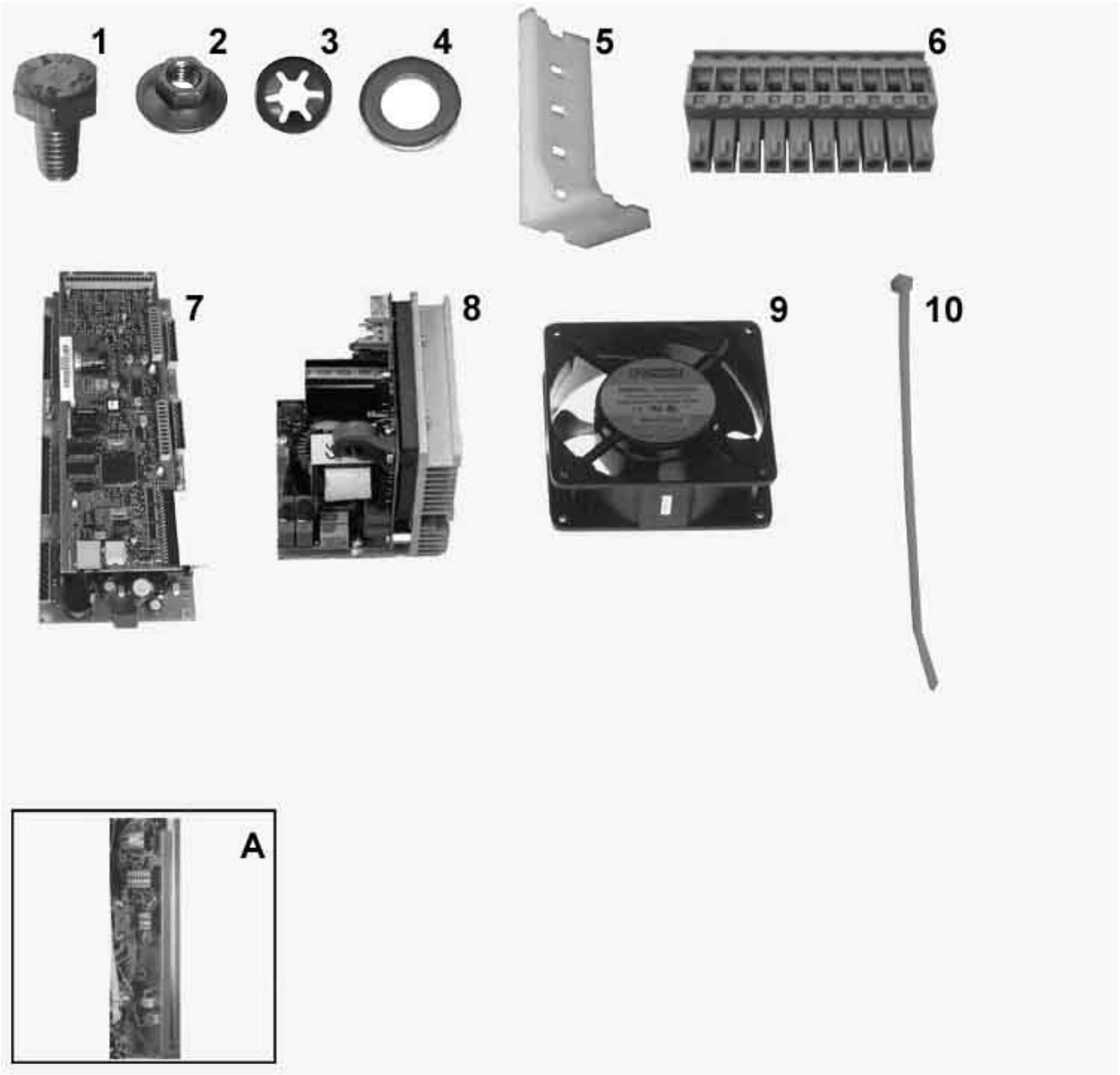
Electrical installation



Electrical installation

Pos.	Part no.	Description	Qty.
3	3040.0281	E-Prom C1_090	
3	3040.0316	E-Prom C5.02	
4	4004.0114	Wire end sleeve 0,75 mm² blue insulated	
6	4007.0606	Screwed cable gland PG36 strain relief	
7	2005.0106	Protective grid for cooling fan	
B		Contactor assembly	

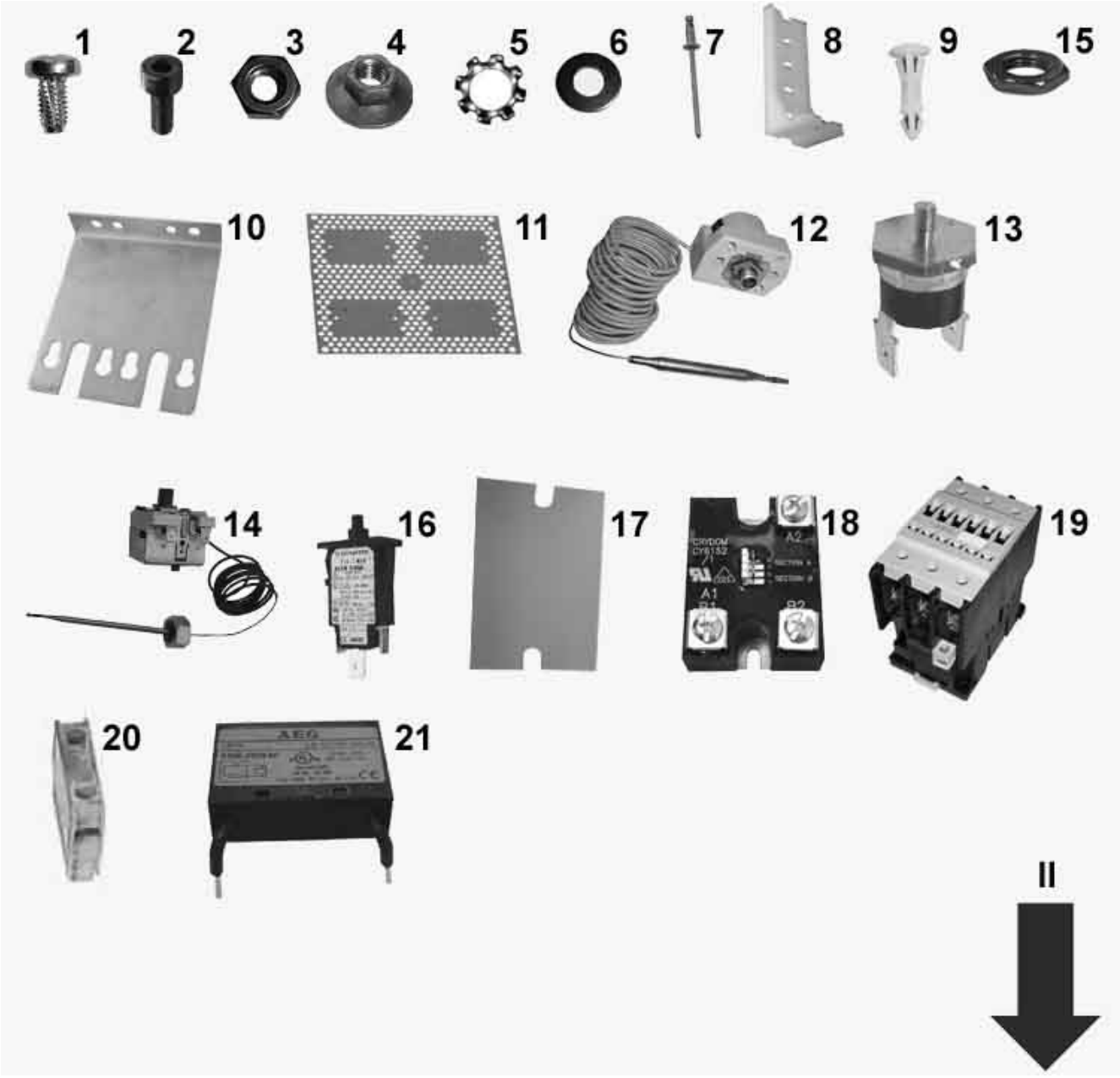
Contactor assembly



Contactor assembly

Pos.	Part no.	Description	Qty.
2	1105.0121	Hex combination nut M5 galv	
2	1105.0122	Hex combination nut M5 V2A	
3	1107.0103	Star lock ø3	
4	1306.0221	Washer A6,4	
4	1306.0120	Washer A6,4	
5	2020.0400	Fixing device for cable harness	
6	3040.0262	Multipoint connector left 10pin, 3.5	
7	3040.3001	Main pcb	
8	3040.3040	Motor control for fan motor	
9	3101.1008	Cooling fan	
10	4005.0101	Tie rap 145 mm	
A		Contactor assembly	

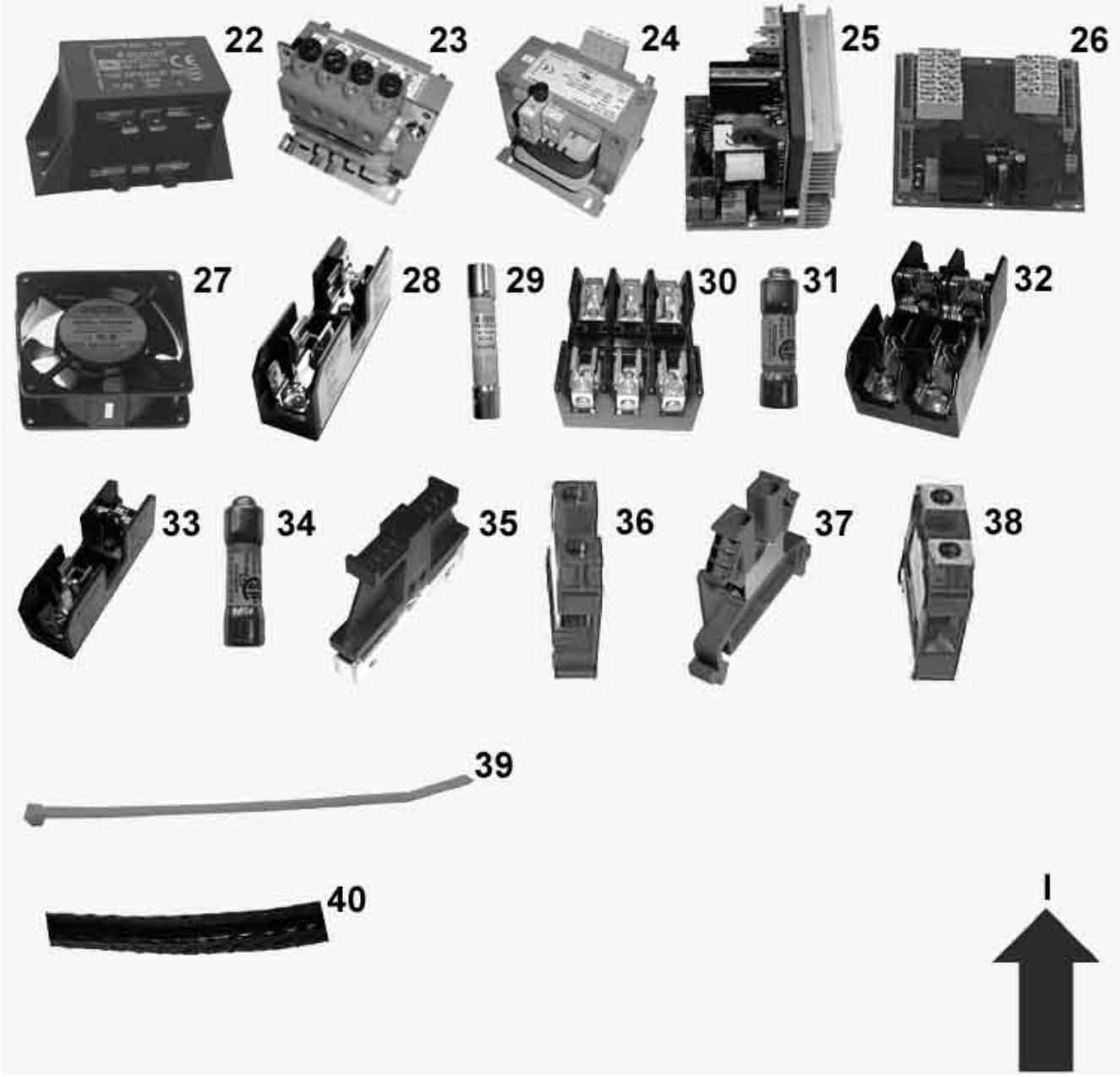
Contactor assembly



Contactor assembly

Pos.	Part no.	Description	Qty.
1	1004.0500	Raised countersunk metal screw M4x8 oval head	
2	1004.0660	Allen screw M4x10	
4	1105.0121	Hex combination nut M5 galv	
4	1104.0122	Hex combination nut M4 galv	
6	1304.0160	Washer A4,3	
7	1603.0166	Rivet 3,2x7,9 CNS closed	
9	2039.0370	Spacer 12x1,6	
11	2930.1304	Cooling plate solid state relay	
12	3014.0300	Dry up protector 257°F/135°C	
13	3014.0325	Bimetall switch 110°,SSR	
14	3014.0326	Safety temperature limiter 365°C,	
15	3014.0327	Hex nut M10x1,0	
17		Heat transfer tape	
18	3028.0533	Solid state relais	
19	3028.0555	Contactor AEG LS30K00	
20	3028.0560	Auxilliary contact BCLF10 N/O	
23	3037.0243	Control transformer	
27	3101.1008	Cooling fan	
28	4001.0201	Fuse holder 1-pol	
29	4001.0202	Fuse	
33	4001.0219	Fuse holder 1-pol	
34	4001.0220	Fuse	
35	4001.1203	End plate for mounting rail	
36	4001.1206	Terminal block 35mm² grey	
37	4001.1216	Terminal block 4smm² grey	
38	4001.1233	Terminal block yellow/green 35mm²	
40	5013.0100	Edge protection profile	

Contactor assembly



Contactor assembly

Pos.	Part no.	Description	Qty.
1	1004.0500	Raised countersunk metal screw M4x8 oval head	
2	1004.0660	Allen screw M4x10	
4	1105.0121	Hex combination nut M5 galv	
4	1104.0122	Hex combination nut M4 galv	
6	1304.0160	Washer A4,3	
7	1603.0166	Rivet 3,2x7,9 CNS closed	
9	2039.0370	Spacer 12x1,6	
11	2930.1304	Cooling plate solid state relay	
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27	3101.1008	Cooling fan	
28	4001.0201	Fuse holder 1-pol	
29	4001.0202	Fuse	
33	4001.0219	Fuse holder 1-pol	
34	4001.0220	Fuse	
35	4001.1203	End plate for mounting rail	
36	4001.1206	Terminal block 35mm² grey	
37	4001.1216	Terminal block 4smm² grey	
38	4001.1233	Terminal block yellow/green 35mm²	
40	5013.0100	Edge protection profile	

Clima Plus



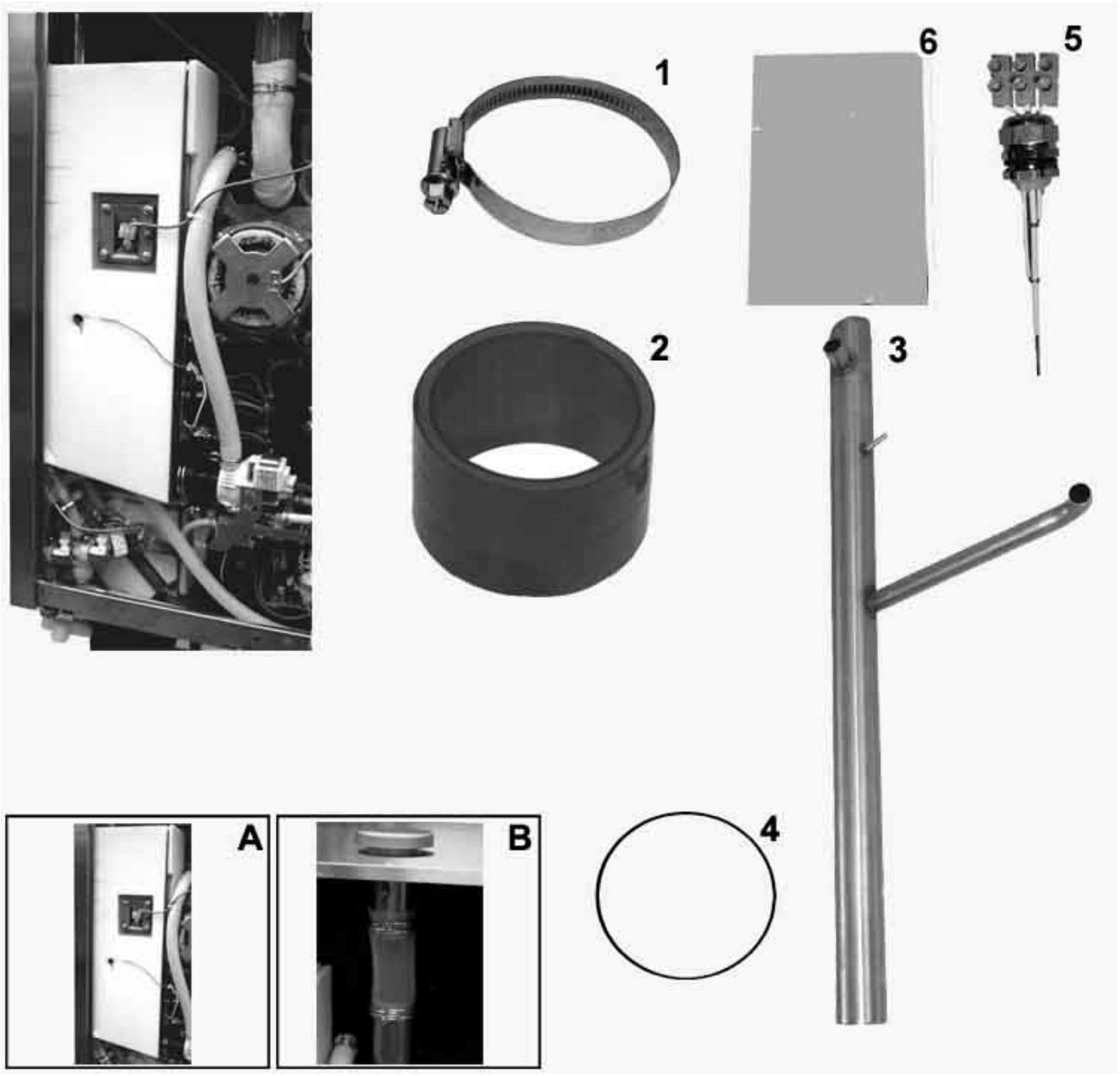




Clima Plus

Pos.	Part no.	Description	Qty.
1	2066.0531	Hose clamp ø56	
2	2112.1301	Silicone hose safety valve	
4	3014.1016	Thermocouple	

Steam generator, Bypass



Steam generator, Bypass

Pos.	Part no.	Description	Qty.
1	2066.0516	Hose clamp 60-80 mm	
2	2112.1307	Hose 70x5mm	
2	2112.1006	Steam hose Ø50x50mm	
6	5003.0300	Insulation, melamin resin foam	
A		Steam generator	

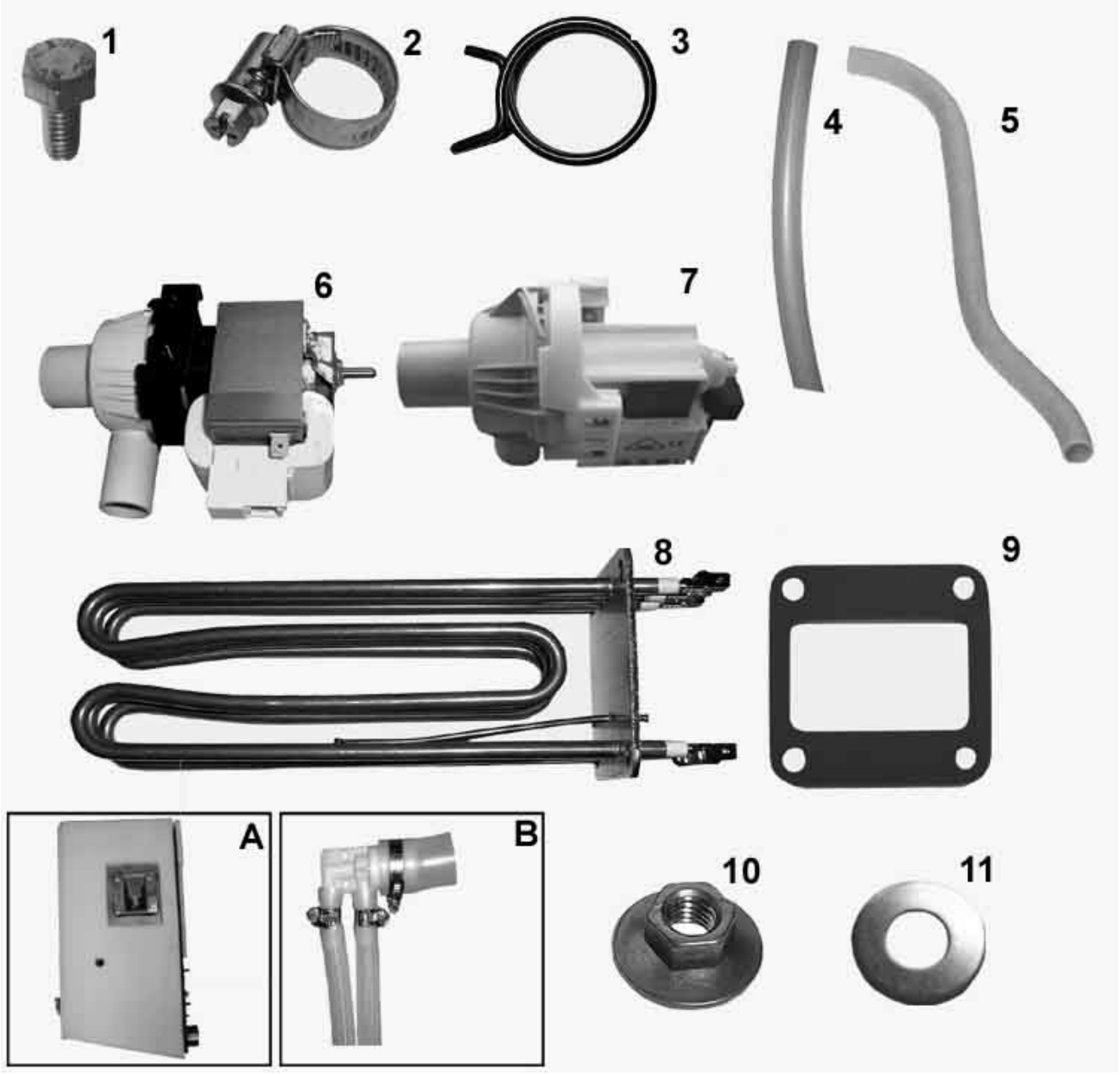
Steam generator



Steam generator

Pos.	Part no.	Description	Qty.
1	1106.0160	Hex nut M6	
1	1105.0120	Hex nut M5	
2	1206.0120	Tooth lock washer A6,4	
2	1205.0120	Tooth lock washer A5,3	
4	2066.0504	Hose clamp 40-60mm	
4	2066.0300	Hose clamp 50-70 mm	
5	2066.0518	Hose clamp 30mm	
6	2112.1006	Steam hose Ø50x50mm	
7	2740.1040	Fixing plate steam generator thermostat	
9	3014.1013	Thermocouple steam generator B5,1300mm	
11	8801.0975	Neutral link 2,5mm² blue	
12	1106.0803	Hex combination nut M6 galv	
A		Steam generator	

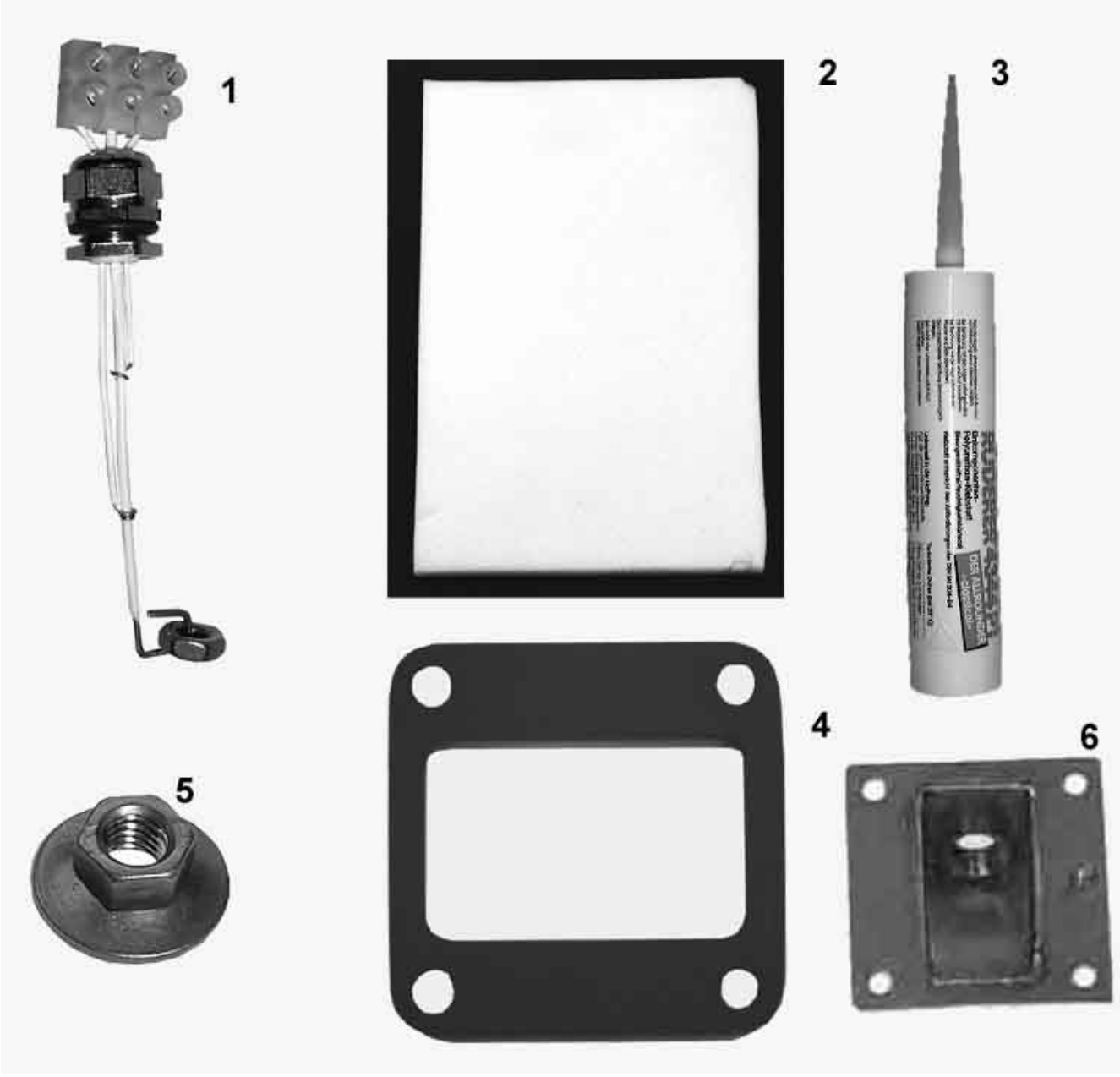
Steam generator



Steam generator

Pos.	Part no.	Description	Qty.
1	1006.0761	Hex screw M6x12	
2	2066.0205	Hose clamp 8-16x9 mm SW 7mm	
3	2066.0518	Hose clamp 30mm	
3	2066.0519	Hose clamp Ø35,6mm	
3	2066.0526	Hose clamp ø46mm	
4	2067.0050	Pressure hose d10mm	
5	2112.1304	Emptying hose steam generator	
7	3002.1005	Emptying pump	
8	3201.1005	Heating element	
9	5110.1003	Gasket for heating element	
10	1106.0803	Hex combination nut M6 galv	
11	1306.0222	Washer A6,4x15x1,5	
A	8350.1304	Steam generator isolated	
B	8354.1304--	Venting valve for steam generation	
B		Pump connection	

Steam generator isolated



Steam generator isolated

Pos.	Part no.	Description	Qty.
1	3002.0402	Filling level electrode 90 mm	
2	5003.0300	Insulation, melamin resin foam	
3	5006.0500	Polyurethan-Glue for insulation 310ml	
4	5110.1003	Gasket for heating element	
5	1106.0803	Hex combination nut M6 galv	
6	2920.1300	Level elektrode insert	

Pump connection



Pump connection

Pos.	Part no.	Description	Qty.
1	2062.0331	Junction pressure hose GS 10	
2	2066.0527	Hose clamp ø14mm	
3	2066.0530	Hose clamp ø16.4mm	
4		Silicon hose	
5	2118.1000	Pump connection spout	
6	2120.1259	Stop plug 10mm	
7	4005.0101	Tie rap 145 mm	

Venting valve for steam generation



Venting valve for steam generation

Pos.	Part no.	Description	Qty.
1	2062.0332	Receptacle for ventilation valve SG	
2	2066.0506	Hose clamp 20-32mm	
3	2069.0108	Ventilation valve	
4	2112.1310	Form hose for ventilation of steam generator	

Hot air heating





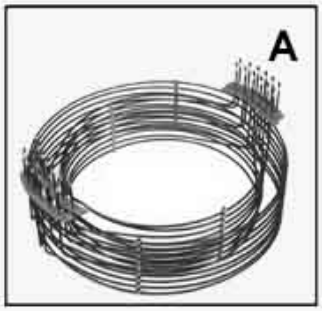
1



2



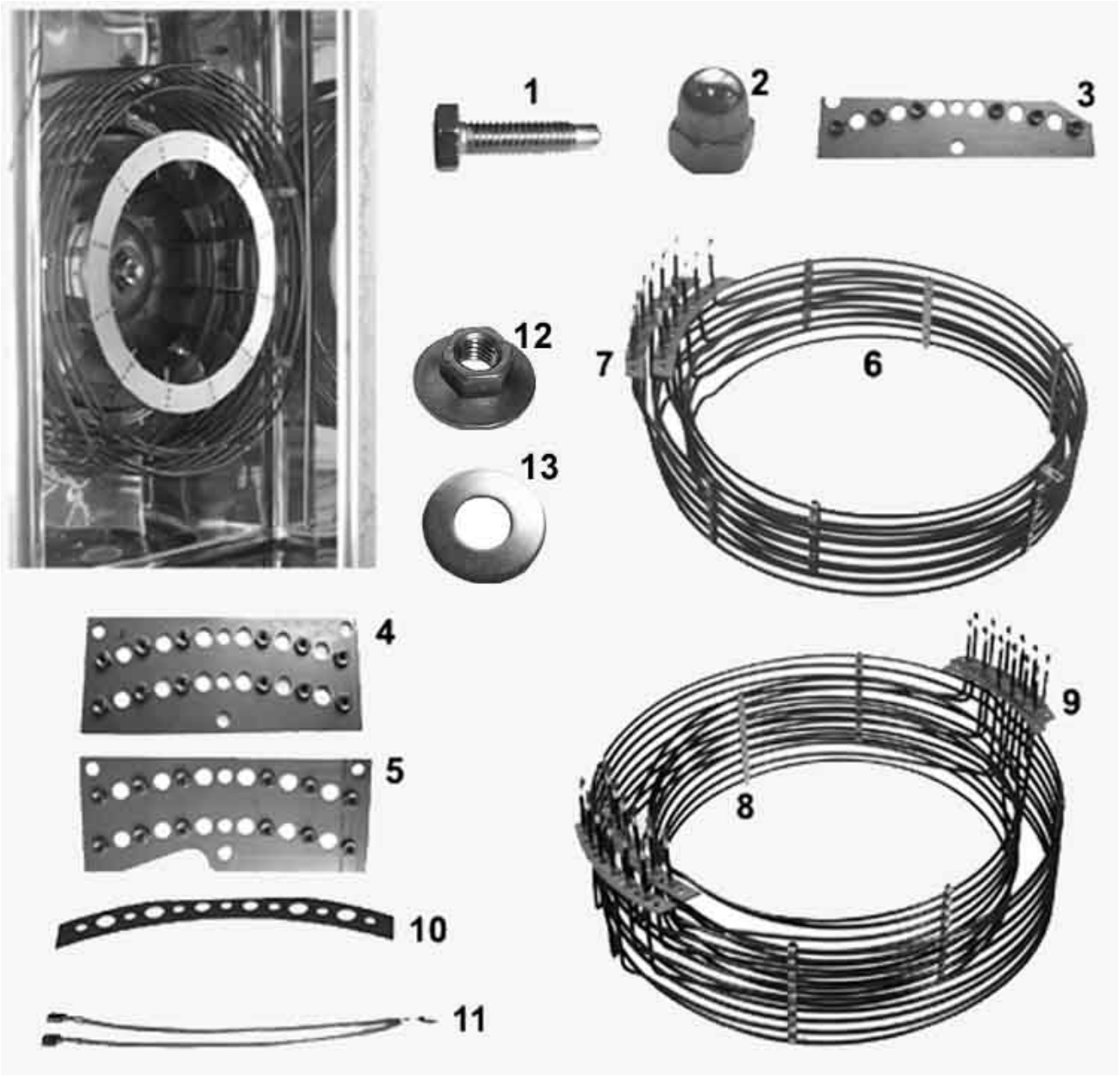
3



Hot air heating

Pos.	Part no.	Description	Qty.
3	2150.1252	External flange for Hot Air heater	
A		Heating assy	

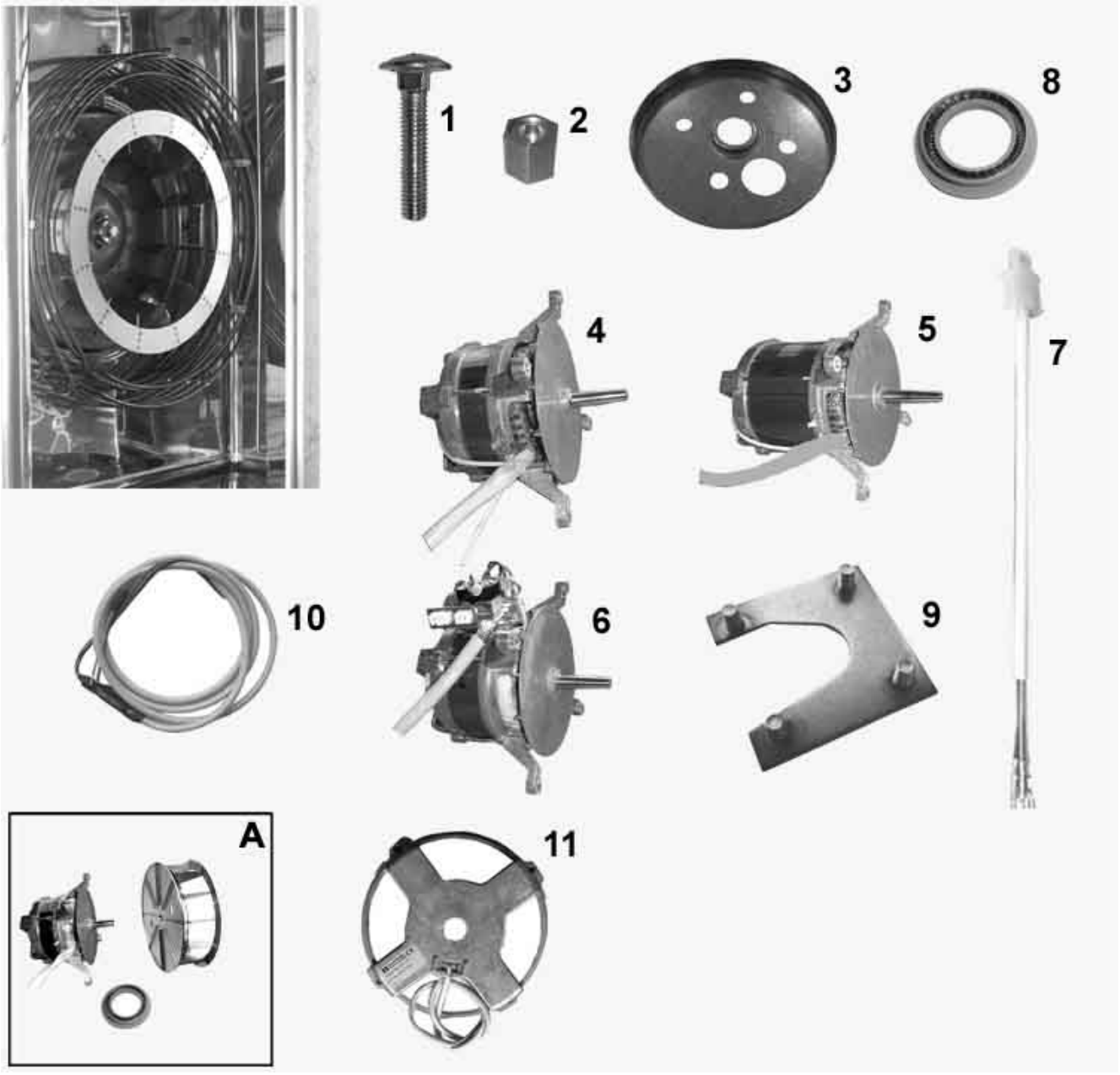
Heating assy



Heating assy

Pos.	Part no.	Description	Qty.
1	1006.0766	Hex screw M6x25	
5	2150.1252	External flange for Hot Air heater	
8	3200.1012	Inner heating assembly	
9	3200.1016	Outer heating assembly	
10	5110.1009	Seal for heating assembly	
11	8801.0975	Neutral link 2,5mm² blue	
12	1106.0803	Hex combination nut M6 galv	

Motor and fan wheel



Motor and fan wheel

Pos.	Part no.	Description	Qty.
2	2120.1306	Spacer SW19x17	
3	2920.1301	Inner sealing flange	
6	3100.1084	Fan motor 4pol	
8	5001.0207	Motor shaft gasket	
9	8514.1339	Motor shaft gasket mounting support	
11	8720.1384	Hallsensor cpl	
A		Fan motor assy	
A		Fan motor assy	

Fan motor assy



Fan motor assy

Pos.	Part no.	Description	Qty.
3	1010.0762	Hex screw M10x20	
4	1106.0220	Hex nut M6 flat	
5	1108.0260	Hex nut M8	
6	1208.0260	Spring washer B8	
7	1306.0120	Washer A6,4	
8	1315.0101	Copper washer 6x10	
9	1315.0109	Copper washer 8.5x16x1,2	
10	1328.0102	Safety washer A10,2	
12	2012.0514	Fan wheel	
17	2120.1306	Spacer SW19x17	
18	2920.1301	Inner sealing flange	
21	5001.0207	Motor shaft gasket	
23	8514.1339	Motor shaft gasket mounting support	

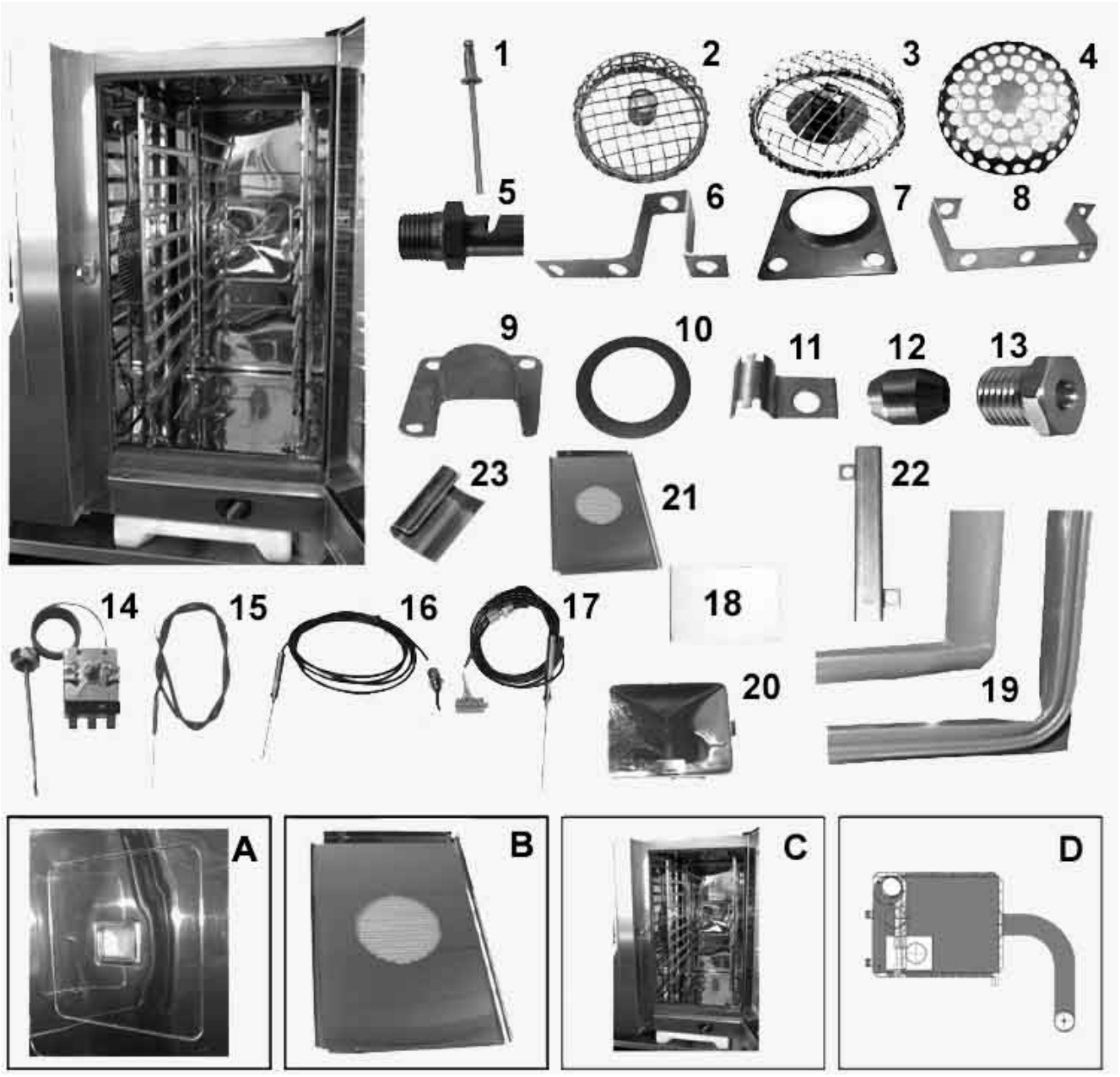
Fan motor assy



Fan motor assy

Pos.	Part no.	Description	Qty.
1	1010.0762	Hex screw M10x20	
2	1108.0260	Hex nut M8	
3	1208.0260	Spring washer B8	
4	1328.0102	Safety washer A10,2	
6	2012.0514	Fan wheel	

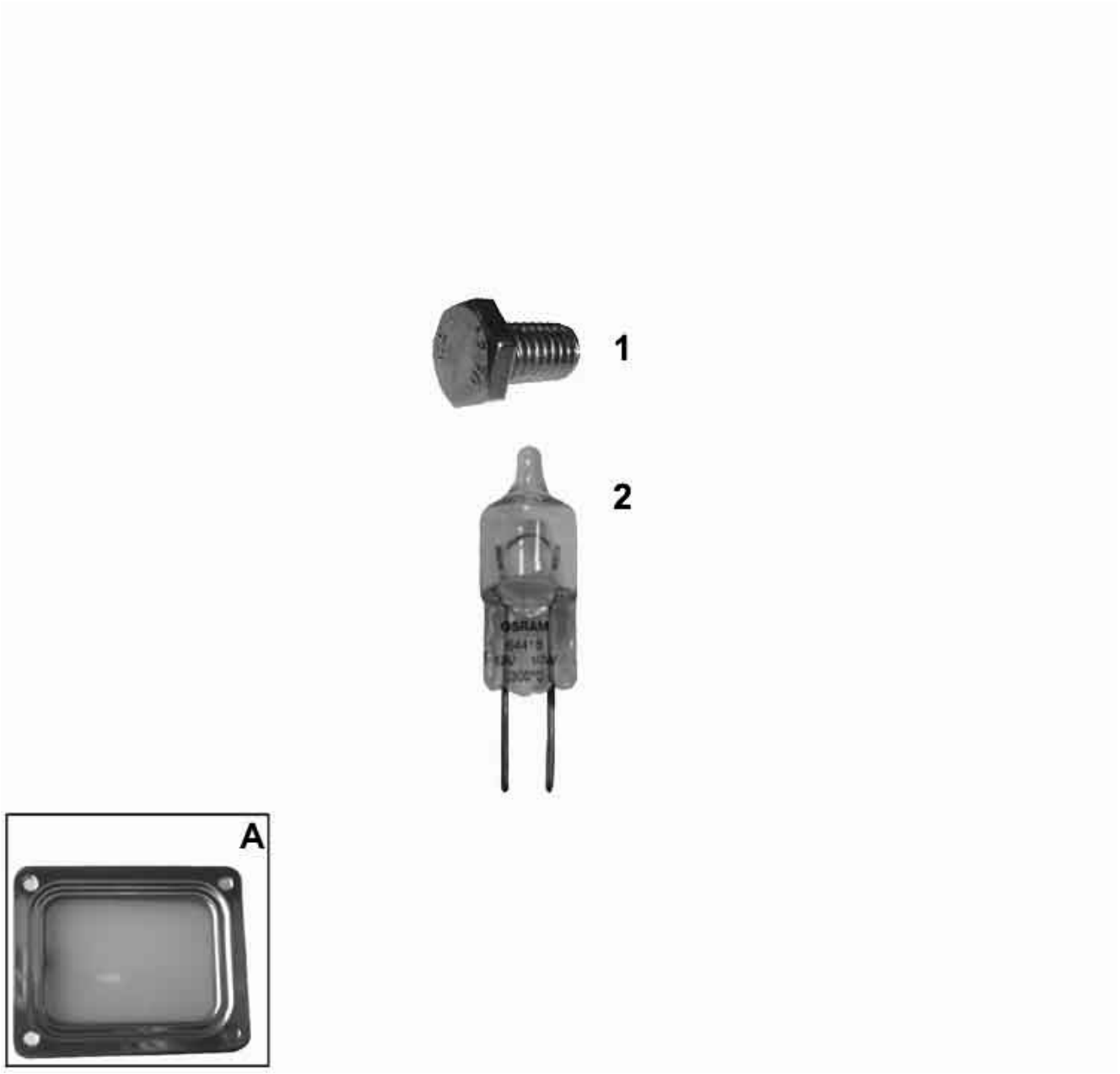
Interior cabinet



Interior cabinet

Pos.	Part no.	Description	Qty.
4	2005.0308	Outlet sieve	
5	2035.0111	Moistening nozzle	
6	2720.1073	Mounting device for int.cabinet sensor	
8	2720.1364	Mounting device f. int. cabinet sensors	
9	2720.1417	Cover for steam inlet pipe	
11	2760.1089	Guide bush for core temperatur sensor	
12	3014.0162	Sealing cone for thermocouple	
13	3014.0163	Gasket sleeve with nipple	
15	3014.1000	Thermocouple for interior cabinet	
16	3035.0712	Meat probe sensor	
19	5105.1022	Door gasket	
20	8514.1018	Reflector for interior light	
23	2760.1132	Holding bracket core probe tip	
A		Interior light	
B	8516.1359	Air baffle	

Interior light



Interior light

Pos.	Part no.	Description	Qty.
1	1008.0753	Hex screw M5x8	
2	3024.0201	Halogen bulb 300°C	
A	8514.1034	Gasket frame with glass and gaskets	

Gasket frame with glass and gaskets

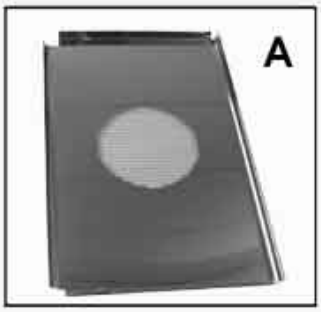


Gasket frame with glass and gaskets

Pos.	Part no.	Description	Qty.
1	5110.1022	External gasket frame for interior light	
2	5110.1023	Internal gasket frame for interior light	
3	5201.1000	Glass for interior lamp	
4	8514.1017	Gasket frame for interior light	

Air baffle





Air baffle

Pos.	Part no.	Description	Qty.
1	1603.0168	Rivet 3,2x8 A4	
1	1603.0166	Rivet 3,2x7,9 CNS closed	
A	8516.1343	Air baffle	

Air baffle



Air baffle

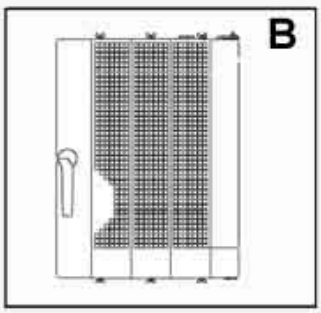
Pos.	Part no.	Description	Qty.
2	1304.0160	Washer A4,3	
3	1604.0167	Rivet 4x10	
3	1604.0165	Rivet 4x9,9	
7	2005.0103	Protective grating,ø259	
9	2760.1370	Latch hook for air baffle	

Door







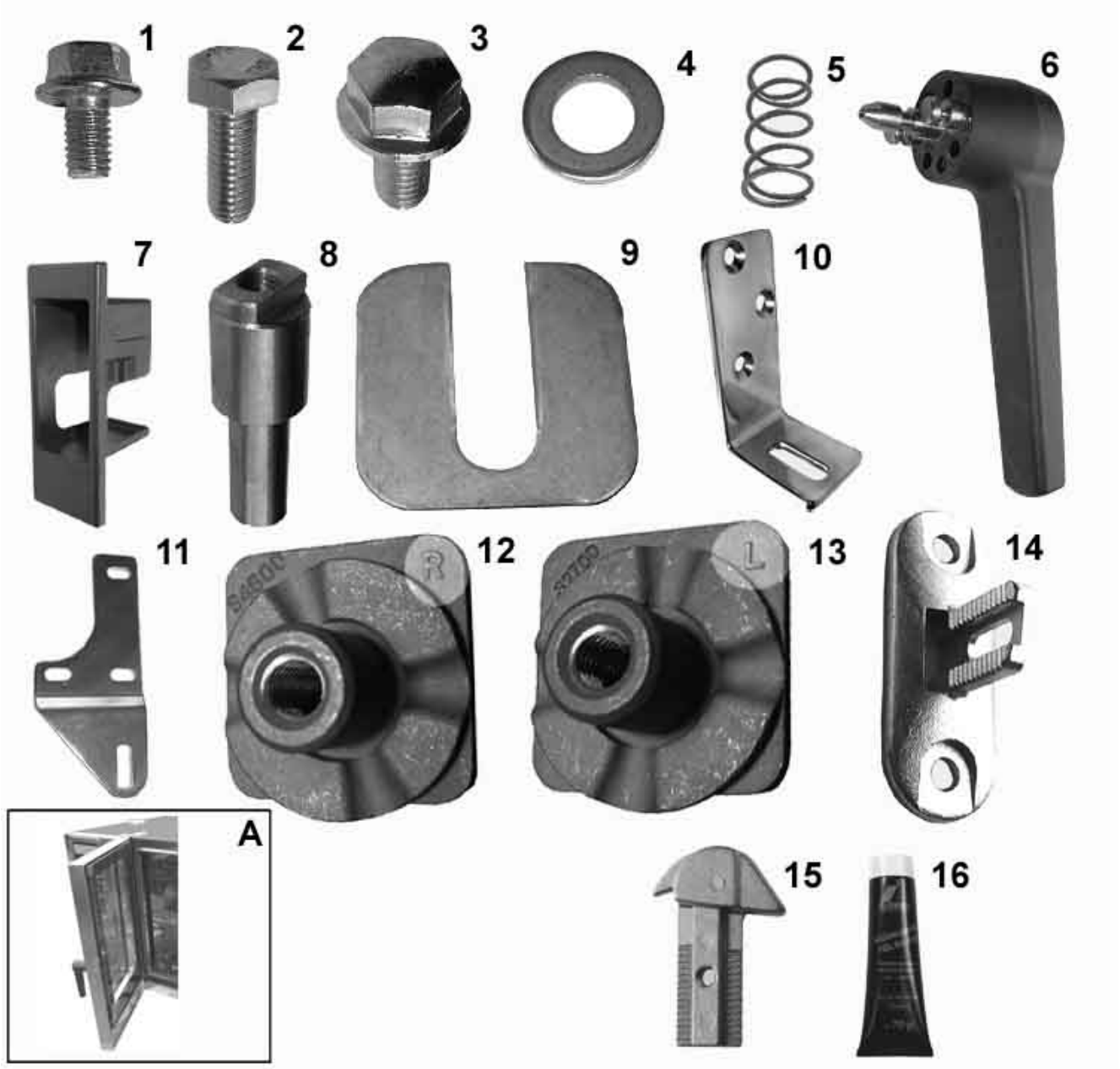




Door

Pos.	Part no.	Description	Qty.
1	8474.1338	Inner glass pane	
A		Door	
C	8474.1373	Inner glass pane	

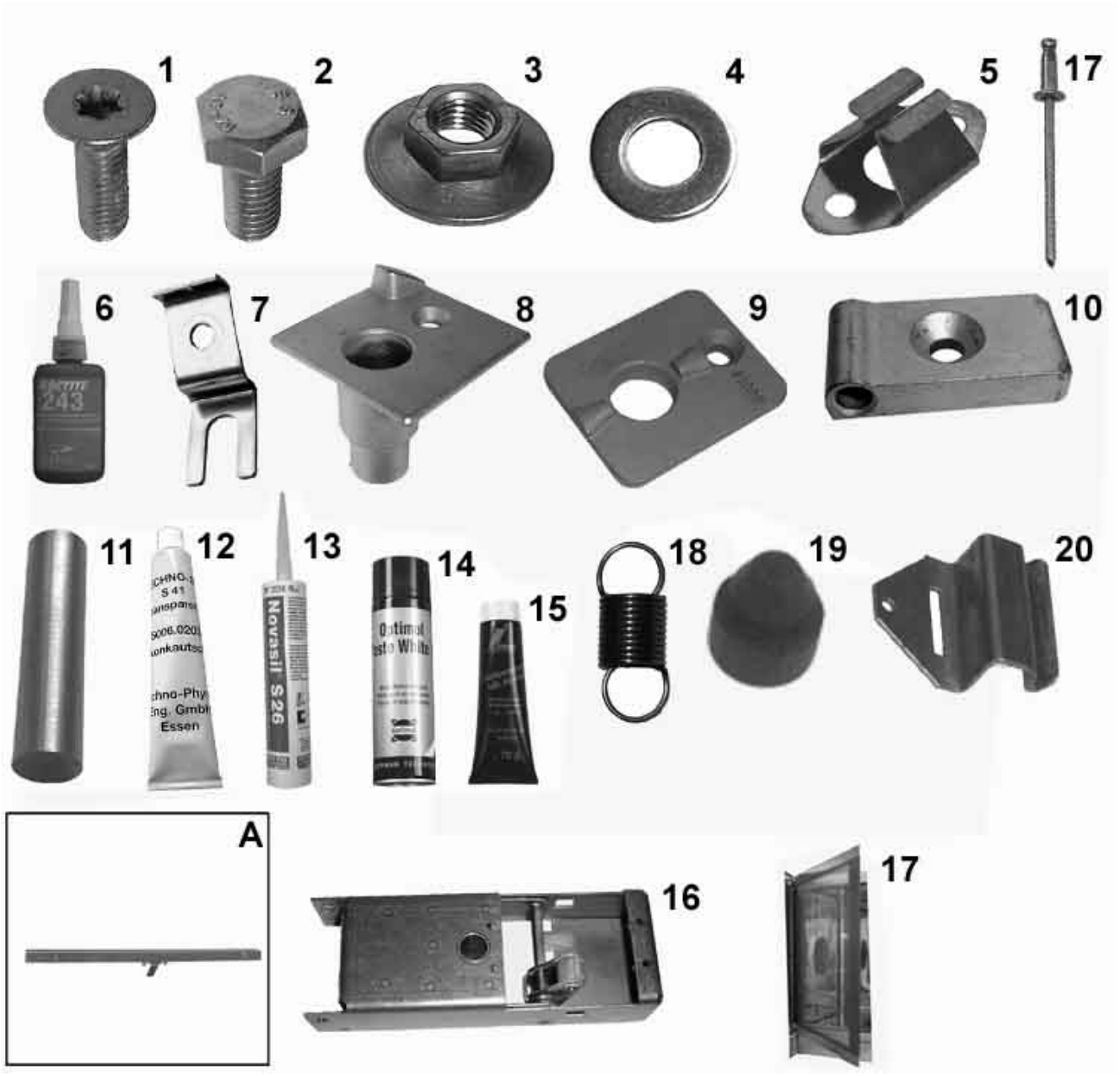
Door



Door

Pos.	Part no.	Description	Qty.
1	1005.2000	Interlocking tooth screw M5x8	
2	1006.0760	Hex screw M6x16	
2	1008.0766	Hex screw M8x30	
3	1008.0768	Ornamental screw M8x16	
4	1308.0162	Washer A8,4	
4	1306.0120	Washer A6,4	
4	1308.0160	Washer A8,4	
5	2001.0109	Compression spring	
6	2016.1504	Door handle Rational	
7	2039.0340	Internal lock cover	
8	2120.1254	Door bolt top	
9	2760.1406	Shim	
10	2930.1316	Door mounting support bottom	
10	2930.1306	Door mounting support bottom	
11	2930.1307	Door mounting support top	
12	2940.1303	Door setting console 110°	
14	2940.1313	Base for door catch	
15	2940.1314	Door catch for 1- and 2-step lock	
A	8470.1302	Door cpl.	

Door cpl.



Door cpl.

Pos.	Part no.	Description	Qty.
1	1005.1966	Countersunk screw Torx M5x16	
3	1105.0122	Hex combination nut M5 V2A	
5	1901.0041	Spring clip stainless steel	
7	2760.1396	Spring supp. f. int. glass holding bra.	
8	2940.1300	Sleeve for door bolt top	
9	2940.1302	Door setting bolt	
10	2940.1309	Hinge for inner glass	
11	3016.1409	Magnet round for door contact d10x40	
12	5006.0200	Silicon tube E41 90ml	
13	5006.0212	Silicone tube E127, 310 ml silver	
14	9003.0210	Optimol paste white T400 ml	
15	9003.0211	Klüberpaste HEL 46-450 70g tube	
16	8474.1300	Door lock	
17	1603.0166	Rivet 3,2x7,9 CNS closed	
18	2002.0106	Tension spring for inner window	
19	2039.0402	Spacer for interior door	
20	2760.1395	Fixing bracket for interior glass pane	
A	8474.1379	Door drip collector	

Door drip collector



Door drip collector

Pos.	Part no.	Description	Qty.
1	1103.0122	Hex nut M3 self-locking	
2	2001.0122	Cone compression spring for drip tray	
3	2039.0339	Plastic knop for door drip tray	
4	2120.1308	Distance nut M3 for door drip collector	
5	2760.1540	Opening device for drain door drip colle	

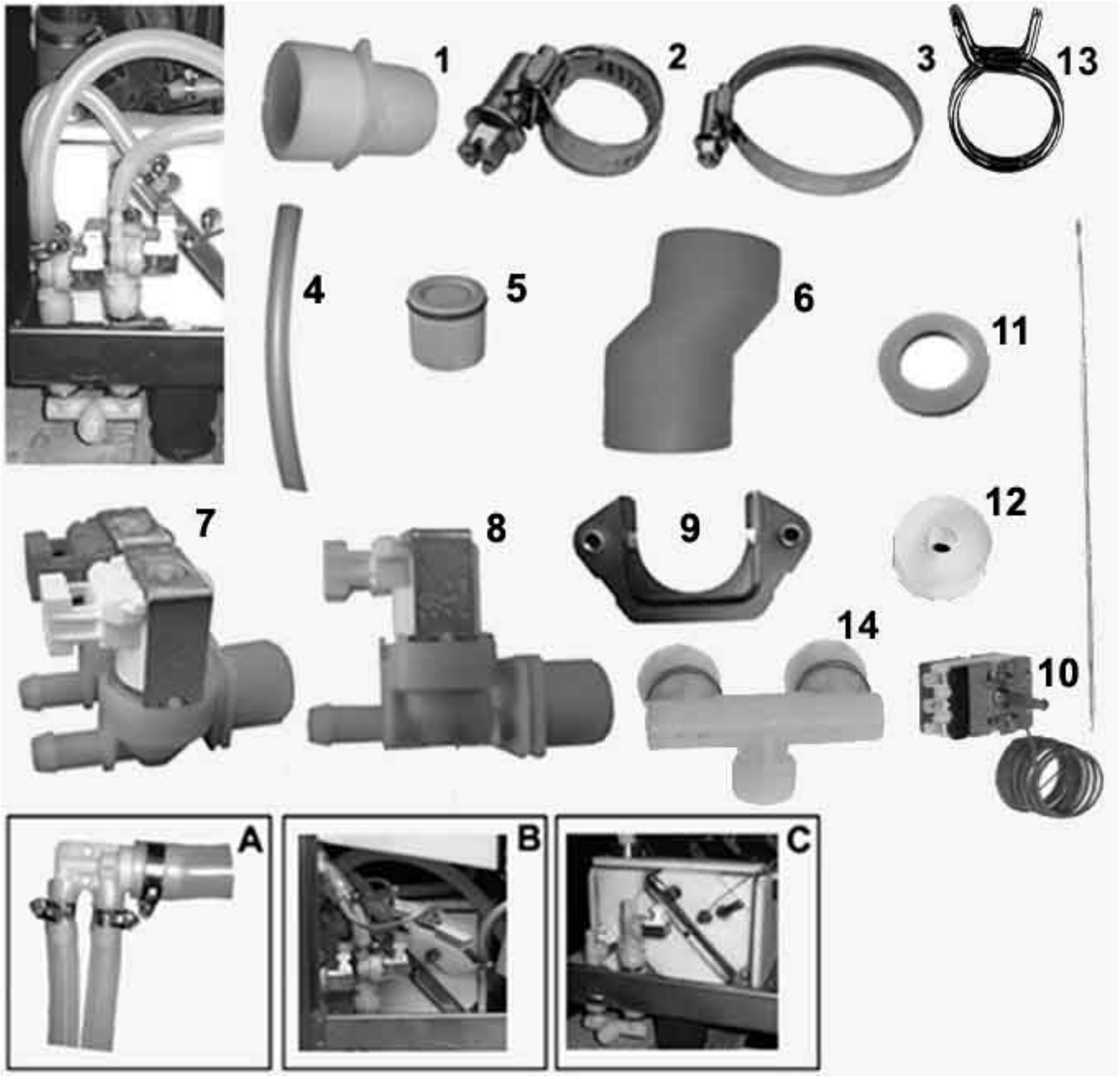
Inner glass pane



Inner glass pane

Pos.	Part no.	Description	Qty.
1	2120.1258	Knurled bolt for inner door hinge	
2	5006.0200	Silicon tube E41 90ml	

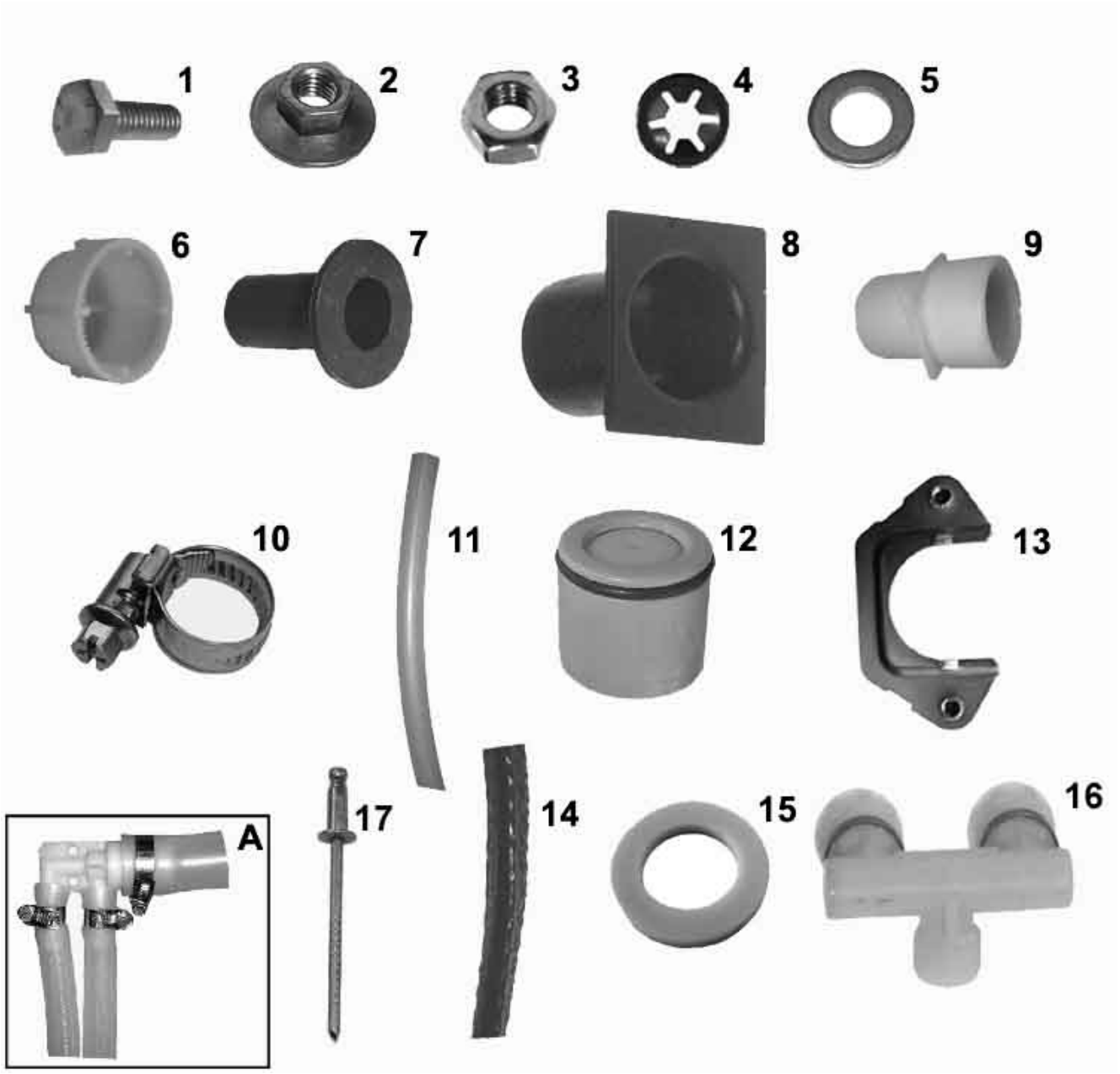
Water supply, quenching box



Water supply, quenching box

Pos.	Part no.	Description	Qty.
2	2066.0205	Hose clamp 8-16x9 mm SW 7mm	
3	2066.0504	Hose clamp 40-60mm	
4	2067.0050	Pressure hose d10mm	
7	3002.0310	Double solenoid valve	
8	3002.0332	Single solenoid valve	
13	2066.0525	Hose clamp ø22,1 mm	
B		Water connection	
C		Quenching box	

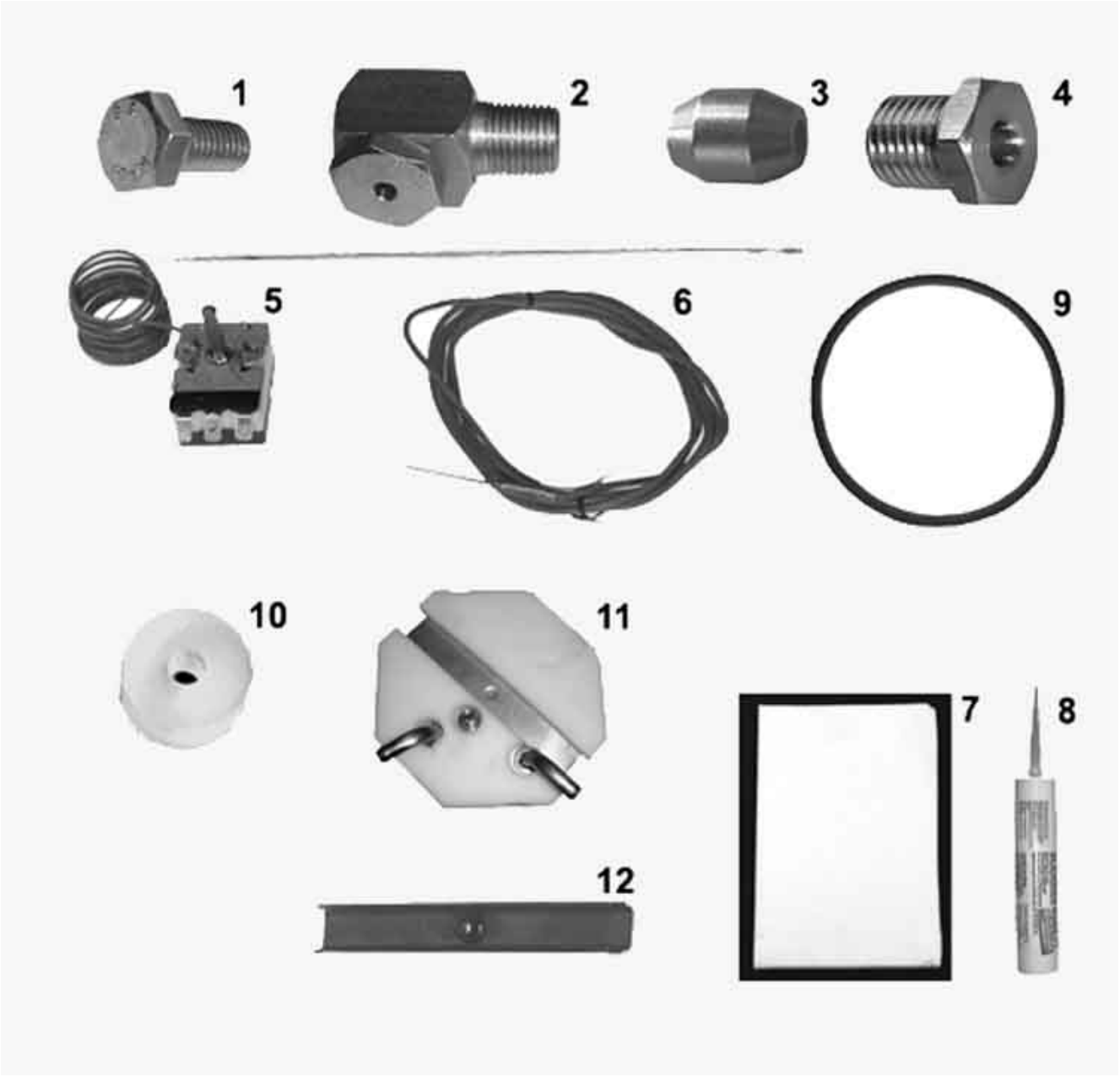
Water connection



Water connection

Pos.	Part no.	Description	Qty.
1	1004.0666	Hex screw M4x10	
2	1105.0122	Hex combination nut M5 V2A	
6	1900.0202	Water filter	
9	2062.0333	Housing for non returne valve	
10	2066.0205	Hose clamp 8-16x9 mm SW 7mm	
11	2067.0050	Pressure hose d10mm	
12	2069.0108	Ventilation valve	
13	3002.0339	Fixing bracket for solenoid valve	
15	5110.1024	Gasket for G3/4" threaded joint	
16	8664.1301	T-fitting water connection	

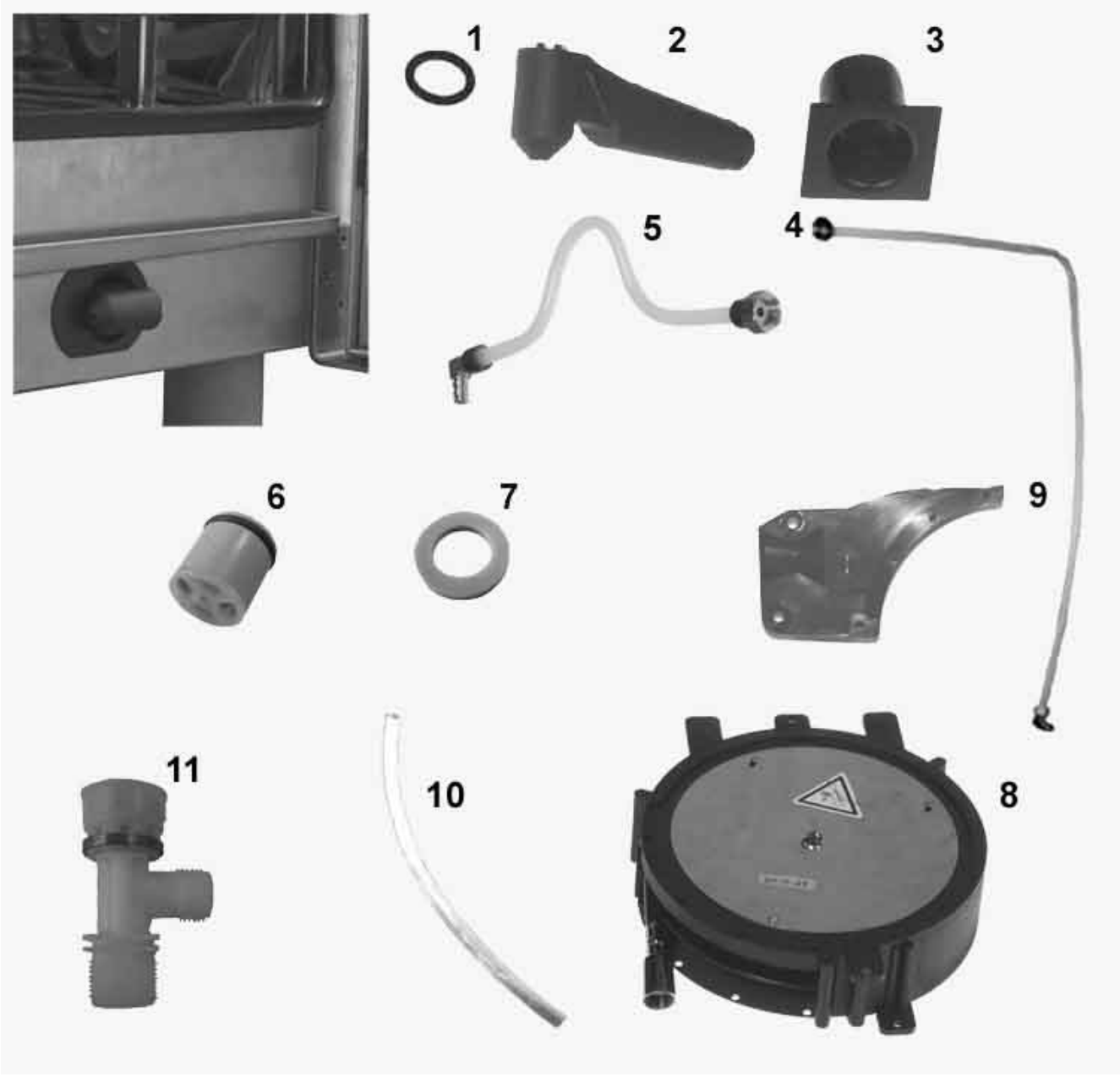
Quenching box



Quenching box

Pos.	Part no.	Description	Qty.
1	1008.0750	Hex screw M5x16	
2	2016.0936	Quenching nozzle 3.9 l/min	
3	3014.0162	Sealing cone for thermocouple	
4	3014.0163	Gasket sleeve with nipple	
6	3014.1003	Thermocouple long 1500mm	
7	5003.0300	Insulation, melamin resin foam	
8	5006.0500	Polyurethan-Glue for insulation 310ml	
9	5012.0566	Gasket f. inspection lid	
11	8666.1318	Flange quenching chamber	
12	8666.1325	Cross bar for flange quenching chamber	

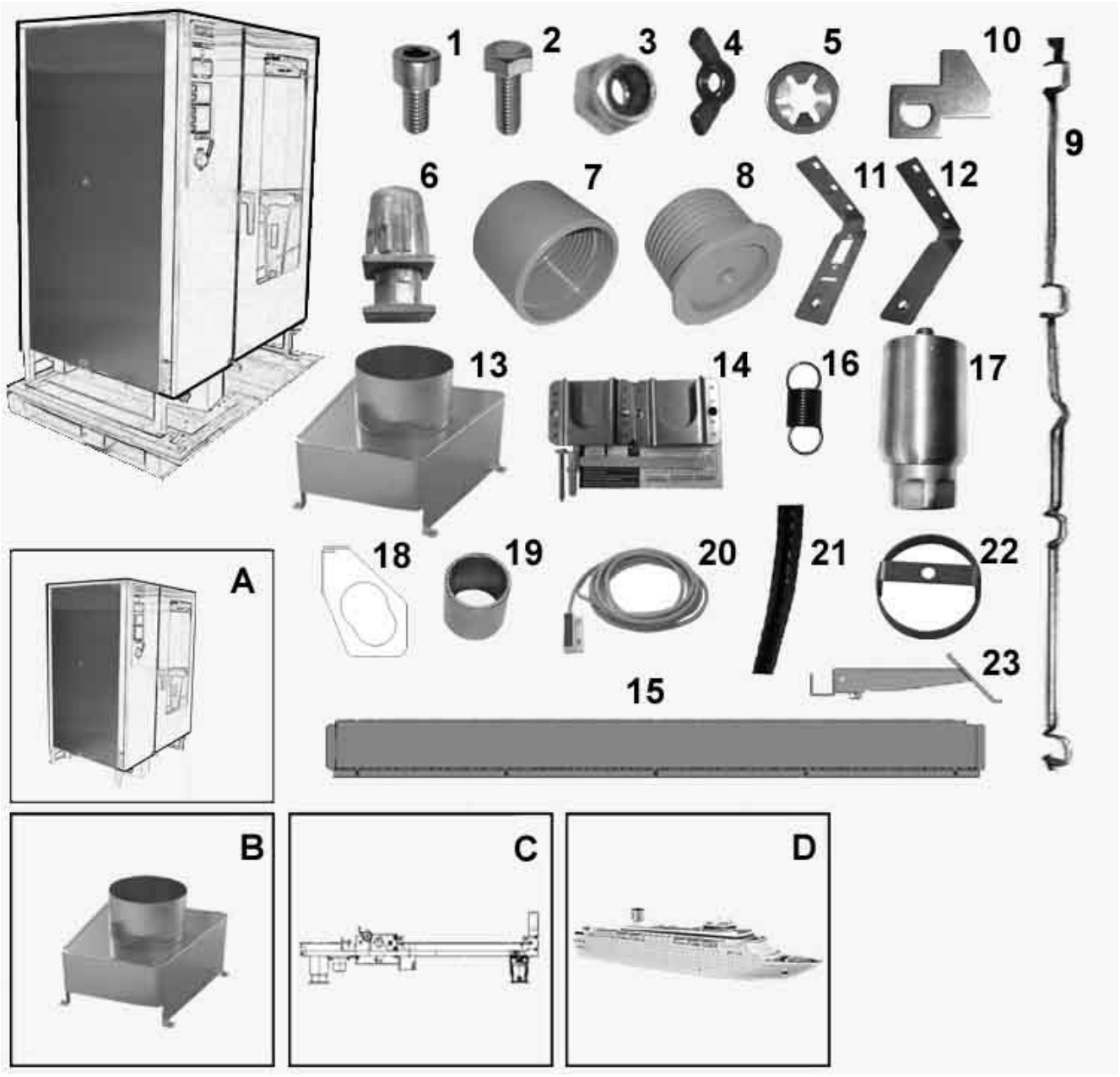
Hand shower



Hand shower

Pos.	Part no.	Description	Qty.
1	2060.0228	O-ring for shower hose	
2	2060.1006	Hand shower	
4	2062.0328	Connection pipe for hand shower	
6	2069.0106	Non return valve DN 10 Handshower	
8	8655.2021	Hand shower roll guide	
11	8664.1300	T-fitting handshower connection	

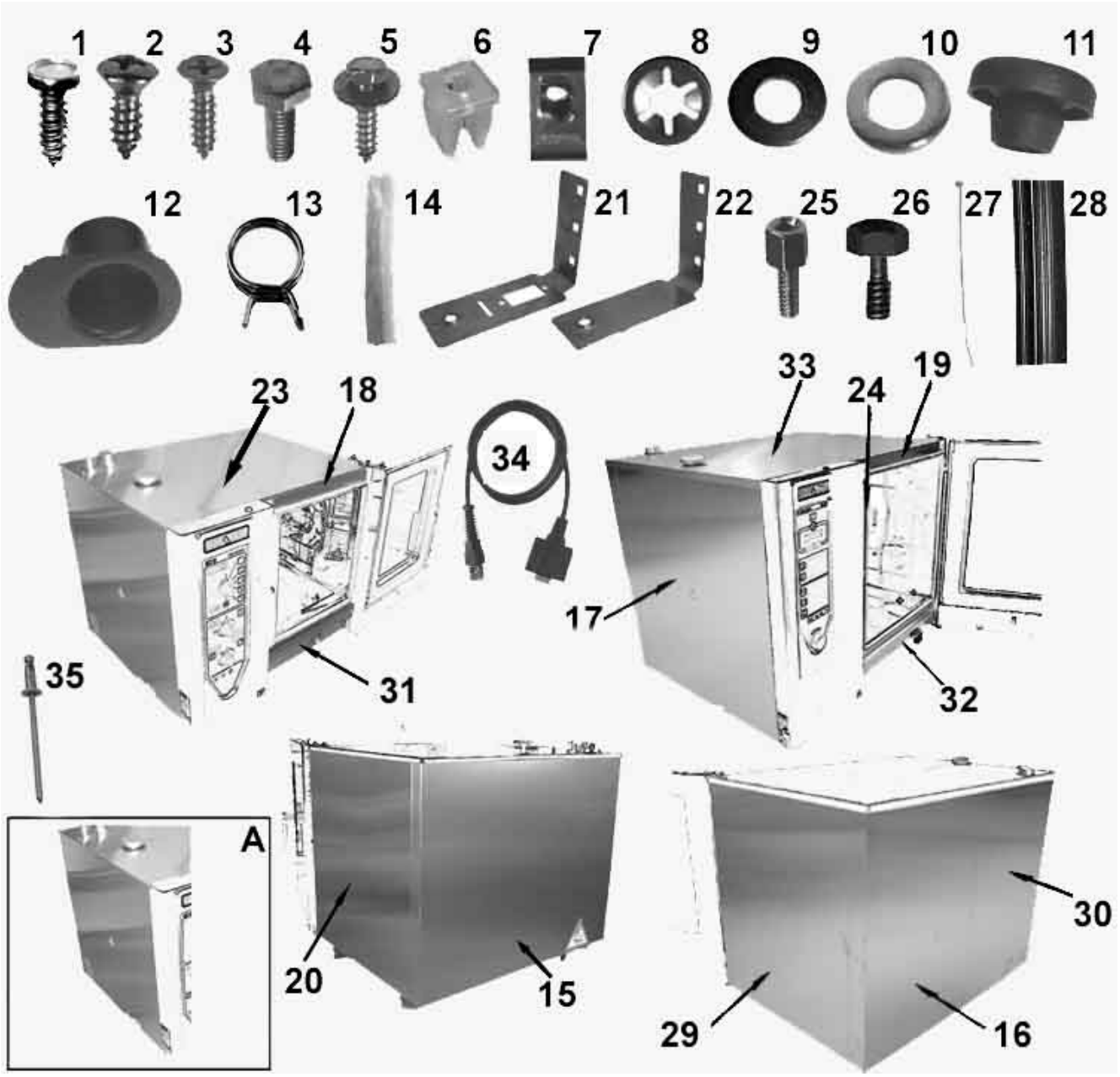
Exterior cabinet



Exterior cabinet

Pos.	Part no.	Description	Qty.
7	2039.0122	Upper part of pedestal, 70mm, black grey	
8	2039.0123	Lower part of pedestal, black grey	
10	2510.530746	Stop for potentiometer hot air	
19	2812.1304	Spacer for vent cover	
20	3016.1415	Door switch	
22	8450.1310	Spacer ring	
22	8455.1209	Vent cover	
A		Exterior cabinet	
C		Base frame	

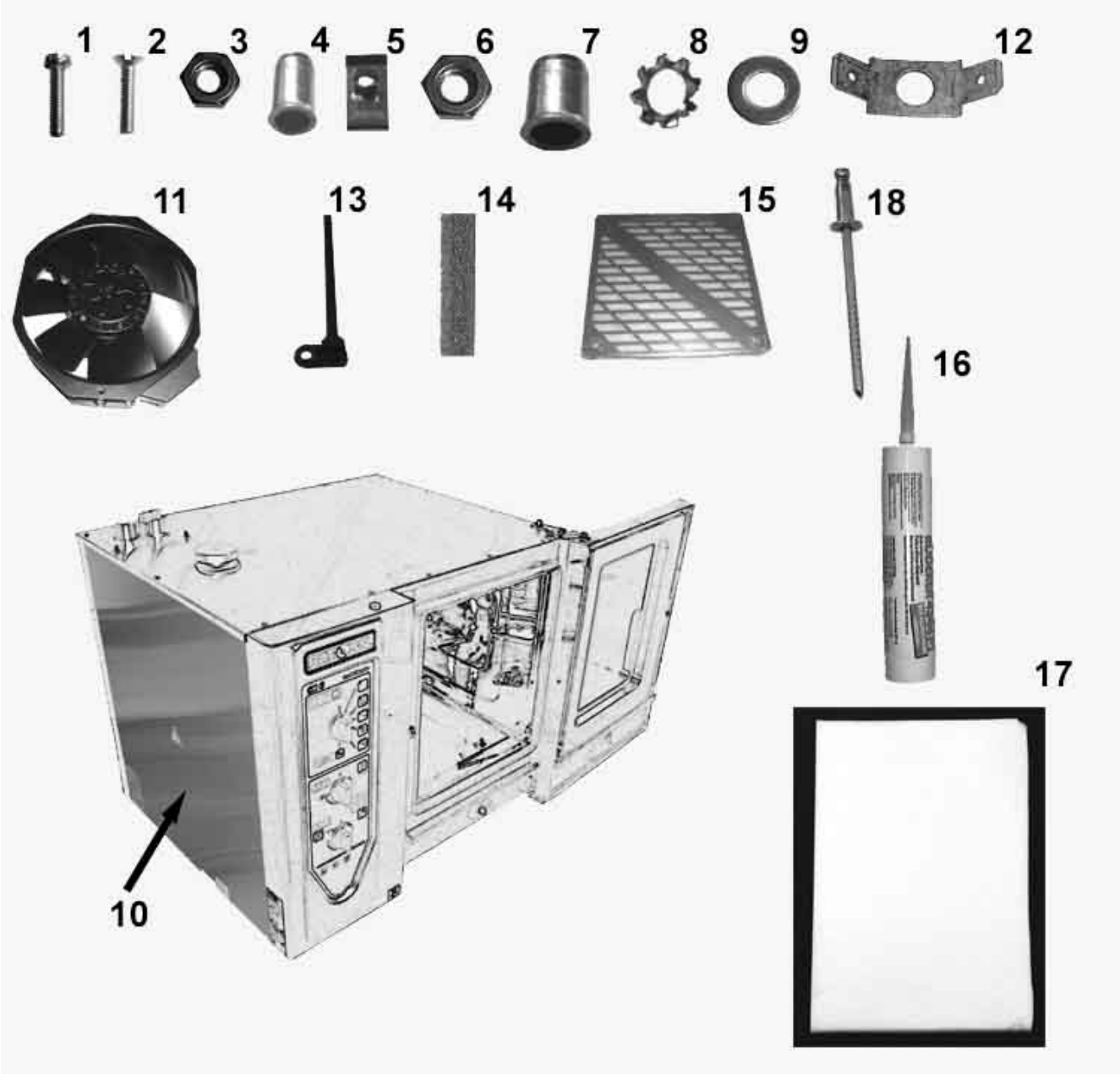
Exterior cabinet



Exterior cabinet

Pos.	Part no.	Description	Qty.
2	1003.2261	Raised counters. head self tapp. screw 4,2x13	
3	1003.2265	Countersunk self tapping screw 4,2x16	
4	1004.0666	Hex screw M4x10	
5	1004.2160	Hex self tapping screw 4,2x16	
7	1104.0820	Snap nut 4,2mm	
8	1107.0100	Star lock ø4	
11	2039.0331	Cap for service door	
12	2060.1210	Tulip for handshower	
13	2066.0525	Hose clamp ø22,1 mm	
14	2110.1002	Silicone hose d15x3	
16	2710.1310	Back panel right	
17	2710.1315	Side panel left	
19	2710.1318	Crossbar top	
24	2710.1380	Top crossbar left side	
25	3040.0308	Spacer sleeve for connector Sub-D	
28	5105.1028	Gasket f. breather tube d=74mm	
28	5100.1012	Gasket venting pipe-top cover	
29	8455.1304	Side panel right	
30	8455.1306	Back panel left	
32	8455.1317	Drip collector	
33	8457.1319	Top cover	
34	8817.1040	Interface cable for RS232	
35	1603.0166	Rivet 3,2x7,9 CNS closed	
35	1603.0161	Rivet 3,2x6	
A		Door switch	
A	8455.1375	Front panel	
A	8455.1427	Side panel left	

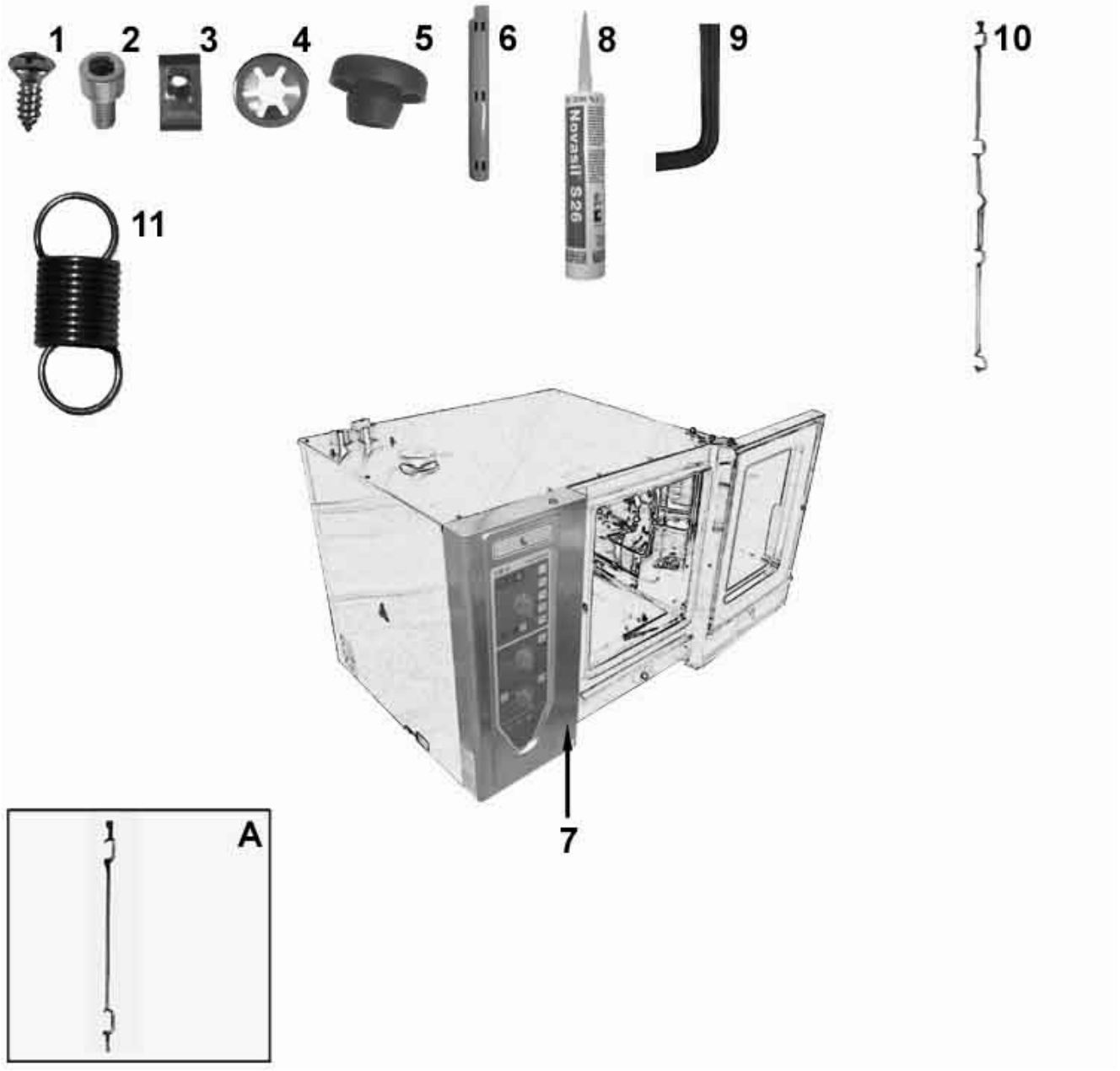
Side panel left



Side panel left

Pos.	Part no.	Description	Qty.
5	1104.0820	Snap nut 4,2mm	
10	2710.1315	Side panel left	
14	5100.1002	Insulating tape 8x6mm	

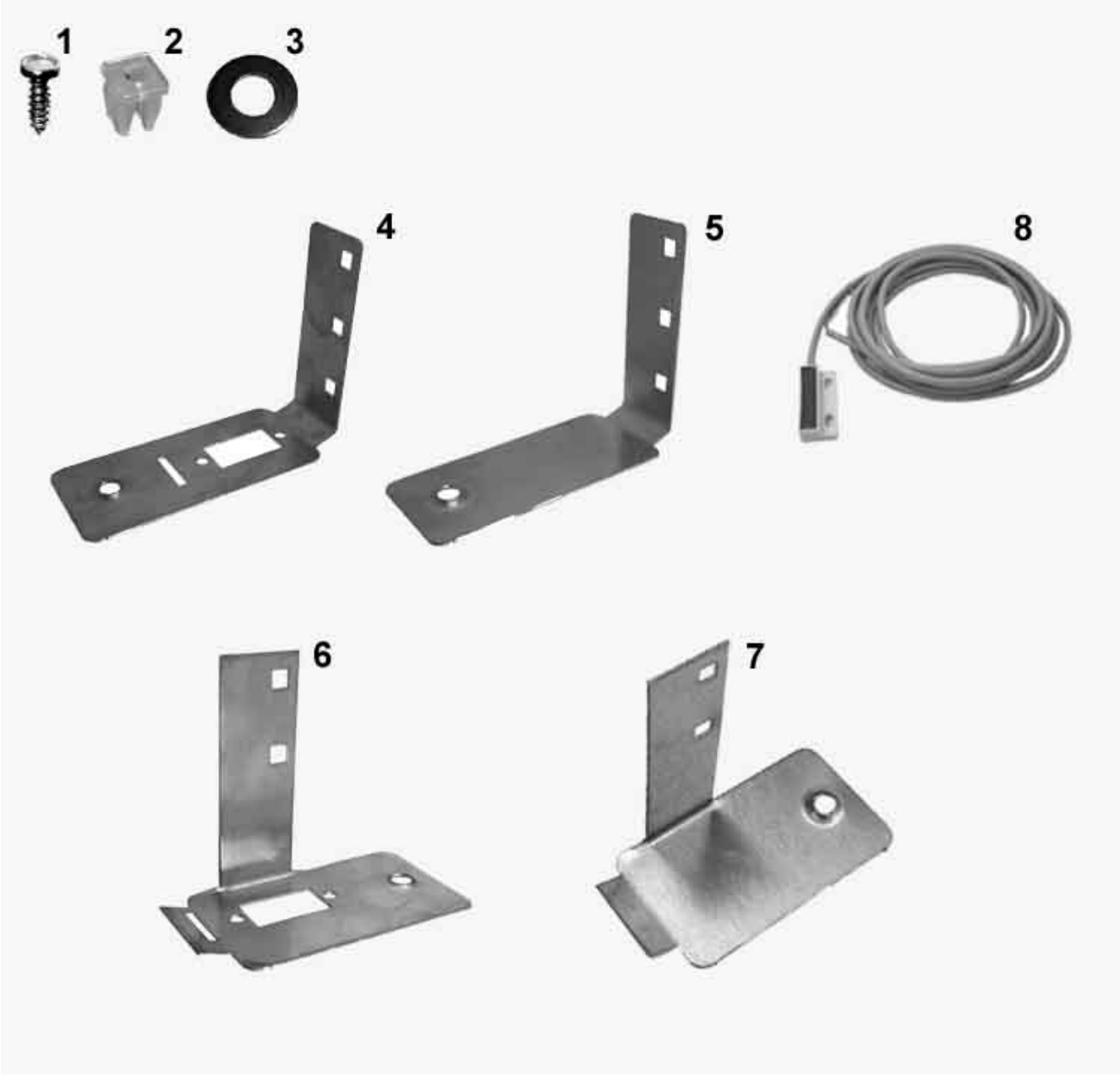
Front panel



Front panel

Pos.	Part no.	Description	Qty.
1	1003.2261	Raised counters. head self tapp. screw 4,2x13	
2	1006.0621	Allen screw M6x12	
3	1104.0820	Snap nut 4,2mm	
4	1107.0104	Star lock ø6	
5	2039.0331	Cap for service door	
8	5006.0212	Silicone tube E127, 310 ml silver	
9	5100.1011	Gasket	
10	8464.1307	Opening mechanism for panel insert	
11	2002.0107	Tension spring for front panel	

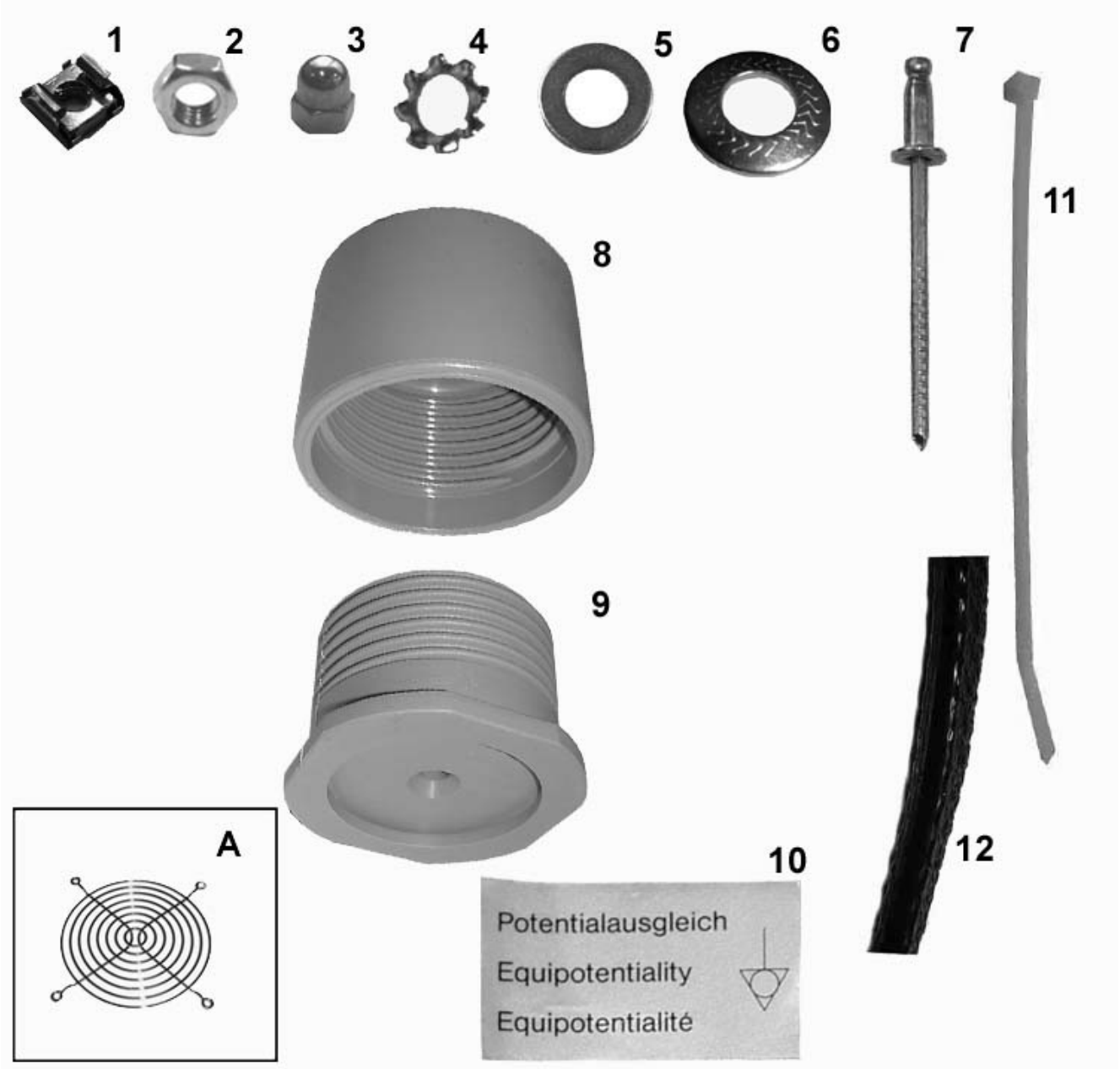
Door switch



Door switch

Pos.	Part no.	Description	Qty.
1	1003.2160	Hex self tapping screw 2,9x9,5	
2	1103.0600	PVC plug in nut for metal screw 2.9mm	
3	1304.0150	Washer A3,2	
4	2710.1324	Bracket for door contact switch	
8	3016.1415	Door switch	

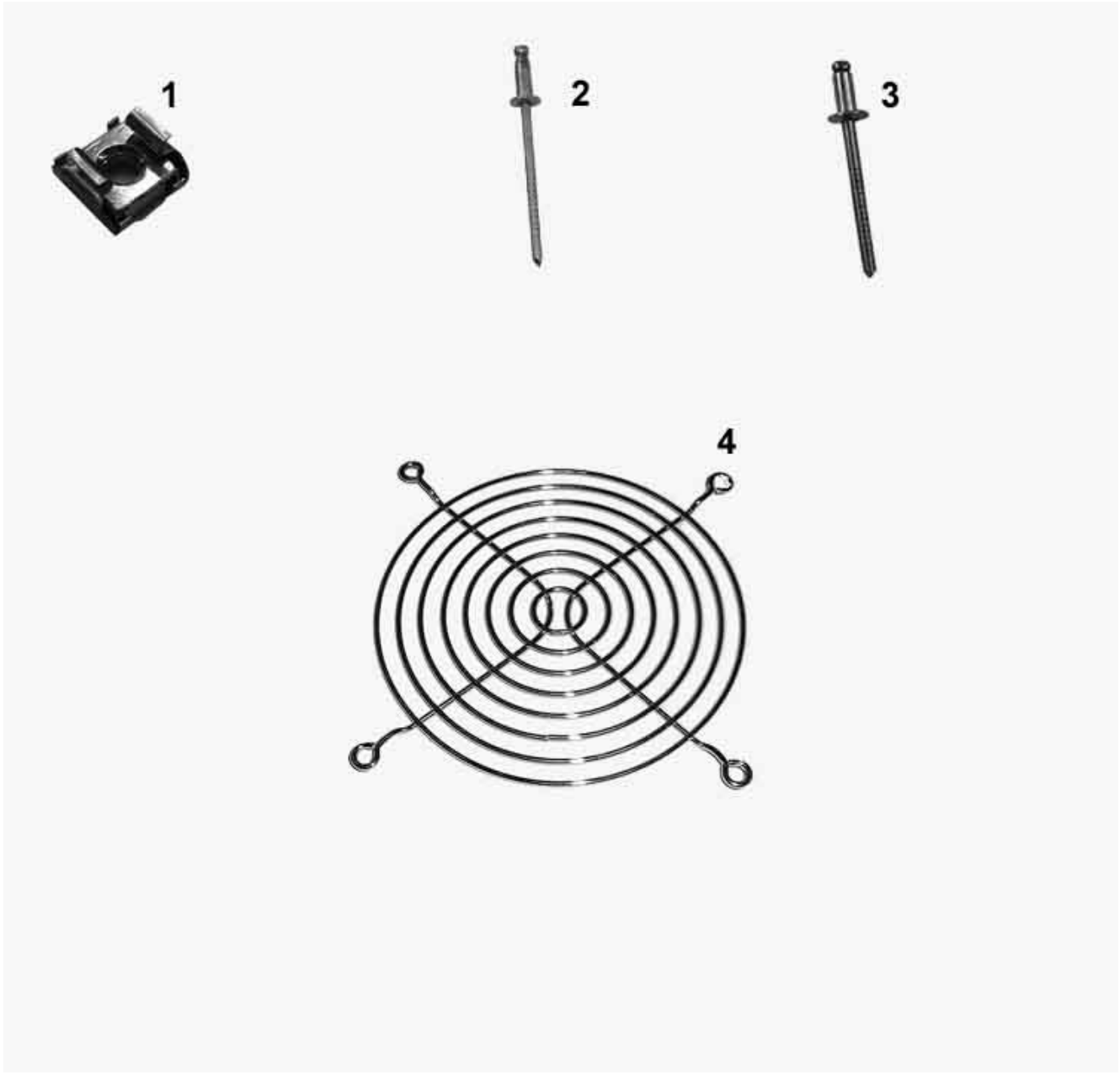
Base frame


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Base frame

Pos.	Part no.	Description	Qty.
1	1110.0800	Cage nut M10	
2	1106.0160	Hex nut M6	
3	1106.0360	Cap nut M6, high shape	
4	1206.0120	Tooth lock washer A6,4	
5	1310.0160	Washer A10,5	
6	1328.0102	Safety washer A10,2	
8	2039.0122	Upper part of pedestal, 70mm, black grey	
9	2039.0123	Lower part of pedestal, black grey	
10	2049.0817	Sticker, Equipotential bonding	
12	5013.0100	Edge protection profile	
A		Base frame	

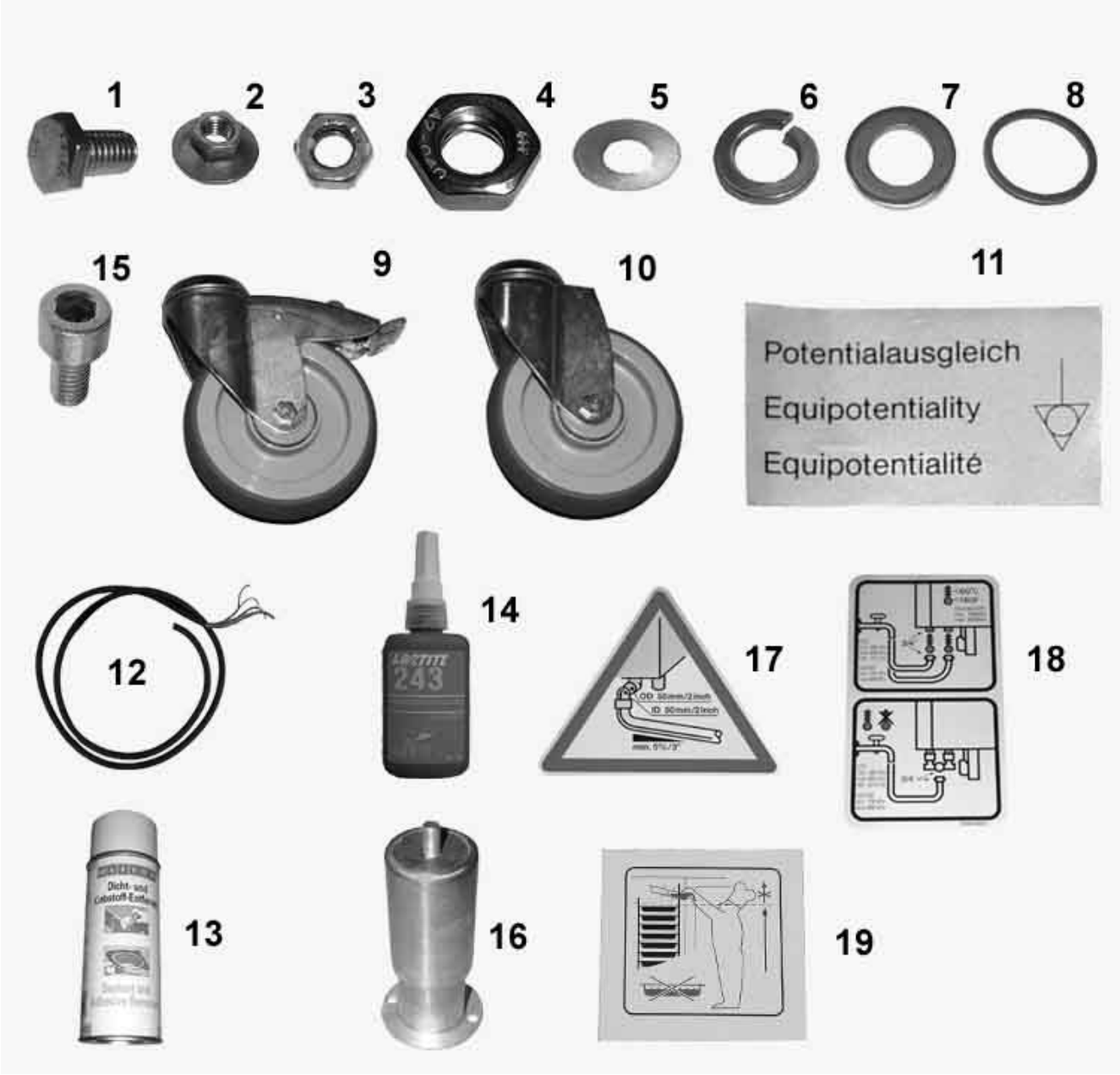
Base frame



Base frame

Pos.	Part no.	Description	Qty.
1	1104.0800	Cage nut M4	
2	1603.0163	Rivet 3,2x8 CNS	
3	1604.0162	Rivet 4x9, CNS closed	
4	2005.0106	Protective grid for cooling fan	

Miscellaneous



Miscellaneous

Pos.	Part no.	Description	Qty.
8	1315.0105	Copper washer 10x16x1,5	
13	9006.0800	Adhesive solvent "Weicon"	
17	2049.0433	Sticker Drain connection DN 50	
19	2049.0484	Sticker "Loading heights"	

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3014.0325	Bimetall switch 110°,SSR	17, 19
2710.1324	Bracket for door contact switch	81
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