

# Planmeca Proline EC pan/ceph/Dimax3



## SPARE-PARTS MANUAL

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**En**

**This manual of spare-parts and subassemblies is for the Planmeca Proline EC X-ray.**

**Always check Planmeca technical bulletins for the latest information on part modifications and changes before ordering spare-parts. This spare-parts manual will be periodically updated to include these modifications and changes.**

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**PUBLICATION PART NUMBER 688056 VERSION 13**

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<b>Chapter A</b>	<b>PLANMECA PROLINE EC PANORAMIC X-RAY</b>	
<b>1</b>	<b>COLUMN</b>	<b>A-2</b>
1.1	Column and wall bracket	A-2
1.2	Z-motor	A-3
1.3	Counter weight	A-4
1.4	Column signal spiral cable, from ser. no XEC421512	A-5
1.5	Column signal spiral cable, before ser. no XEC421512	A-6
1.6	Main cable+spiral cable, from ser. no XEC421512	A-7
1.7	Main cable+spiral cable, before ser. no XEC421512	A-8
1.8	Exposure switch assembly	A-9
1.8.1	Exposure switch assembly, standard	A-9
1.8.2	Exposure switch assembly, USA version	A-10
<b>2</b>	<b>Z-CARRIAGE</b>	<b>A-11</b>
2.1	Z-carriage parts	A-11
2.2	On/Off switch assembly	A-12
<b>3</b>	<b>LOWER SHELF</b>	<b>A-13</b>
3.1	Lower shelf casting and pcb	A-13
3.2	Patient positioning mechanism and focal trough laser	A-14
3.3	Patient positioning mechanism parts 1	A-15
3.4	Patient positioning mechanism parts 2	A-16
3.5	Patient positioning mechanism parts 3	A-17
3.6	Cover and support holder	A-18
3.7	Chin supports	A-19
3.8	Control console	A-20
<b>4</b>	<b>UPPER SHELF</b>	<b>A-21</b>
4.1	Power supply and covers	A-21
4.2	Guide block assembly, from ser. no XEC421512	A-22
4.3	Guide block assembly, before ser. no XEC421512	A-23
4.4	Midsagittal plane laser	A-24
<b>5</b>	<b>ROTATING UNIT</b>	<b>A-25</b>
5.1	Rotating unit casting	A-25
5.1.1	Choke assembly	A-25
5.1.2	Rotating part cable harness, from ser. no XEC421512	A-26
5.1.3	Rotating part cable harness, before ser. no XEC421512	A-27
5.1.4	Pcb's, from ser. no XEC421512	A-28
5.1.5	Pcb's, before ser. no XEC421512	A-29
<b>6</b>	<b>TUBE HEAD</b>	<b>A-30</b>
<b>7</b>	<b>CASSETTE CARRIAGE</b>	<b>A-31</b>
7.1	Covers	A-31
7.2	Cassette driving mechanism	A-32
7.3	Cassette holder profile	A-33
7.4	Cassettes	A-34
7.4.1	Regular panoramic cassette, 15x30	A-34
7.4.2	Autoprint cassette, 15x30	A-35
7.5	Frankfort laser	A-36

<b>Chapter B</b>	<b>PLANMECA PROLINE EC PAN/CEPH X-RAY</b>	
<b>1</b>	<b>CEPHALOSTAT CM</b>	<b>B-2</b>
1.1	Arm and covers, CM	B-2
1.2	Casing and attachment mechanism	B-3
1.3	Head support assembly (pages B-4 and B-5)	B-4
1.4	Ear post holder assemblies and nasal positioner holder assembly	B-5
1.5	Cassette holder, CM new ceph.	B-6
1.6	Cassette holder, CM	B-7
<b>2</b>	<b>PARTS TO PANORAMIC UNIT WITH CEPHALOSTAT</b>	<b>B-8</b>
2.1	Column	B-8
2.2	Z-carriage	B-8
2.3	Upper shelf	B-9
2.4	Rotating unit	B-9
2.5	Tube head	B-10
2.6	Cassette carriage	B-11

2.6.1	Cassette driving mechanism.....	B-12
2.6.2	Cassette holder profile.....	B-13
2.6.3	Cassette carriage cover assembly.....	B-14
2.6.4	Cassettes.....	B-15

**Chapter C****OPTIONAL FEATURES**

<b>1</b>	<b>EXHIBITION FREE STANDING BASE .....</b>	<b>C-2</b>
<b>2</b>	<b>CALIBRATION TOOLS .....</b>	<b>C-3</b>
<b>3</b>	<b>TRANSPORTATION ACCESSORIES .....</b>	<b>C-4</b>
<b>4</b>	<b>CARRYING HANDLES .....</b>	<b>C-5</b>
<b>5</b>	<b>AEC RETROFIT KITS .....</b>	<b>C-6</b>
5.1	Cassette driving mechanism.....	C-6
5.2	Cassette cover for AEC retrofit kits 10001947 and 10001517.....	C-7
5.3	Regular panoramic cassette, 15x30 for AEC retrofit kits 10001517 and 10001515.....	C-8
5.4	Autoprint cassette, 15x30 for AEC retrofit kits 10001944 and 10001947.....	C-8
5.5	Softwares, see "Software and PCB compability information".....	C-9
5.6	Calibration tool.....	C-9

**Chapter D****DIMAX3 AND DIMAX DIGITAL PANORAMIC SYSTEM**

<b>1</b>	<b>DIMAX3 .....</b>	<b>D-2</b>
1.1	Dimax3 Proline panoramic connector.....	D-3
1.2	Dimax3 Proline fixed panoramic connector for pan/ceph units.....	D-4
1.2.1	Adapter body.....	D-5
1.3	Dimax3 Proline fixed panoramic connector.....	D-6
1.3.1	Z-carriage.....	D-7
1.4	Panoramic unit with cephalostat.....	D-8
1.4.1	Dimax3 Proline cephalostat connector.....	D-8
1.4.2	Cephalostat mechanism frame.....	D-9
1.4.3	Cephalostat mechanism.....	D-10
1.4.4	Dimax3 Proline cephalostat sledges.....	D-11
1.4.5	Dimax3 Proline cephalostat 2nd primary collimator.....	D-12
1.4.6	Column.....	D-13
1.4.7	Z-carriage.....	D-13
1.4.8	Tube head.....	D-13
1.5	Dimax3 PCI interface cable.....	D-14
1.6	PC accessories.....	D-15
1.7	Dimax3 alignment tools.....	D-15
1.8	Keyboard processor PCB, see "Software and PCB compability information".....	D-16
1.9	Generator Processor PCB, see "Software and PCB compability information".....	D-17
<b>2</b>	<b>DIMAX .....</b>	<b>D-18</b>
2.1	Optical fibre cable.....	D-18
2.2	Keyboard processor PCB, see "Software and PCB compability information".....	D-19
2.3	Upper shelf cover.....	D-20
2.4	Guide block assembly.....	D-21
2.5	Generator processor PCB, see "Software and PCB compability information".....	D-22
2.6	Sensor head.....	D-23
2.7	Ceph model sensor head.....	D-24
2.8	PC accessories.....	D-25
2.9	Dimax alignment tools.....	D-25

**Chapter E****SOFTWARE AND PCB COMPABILITY INFORMATION**

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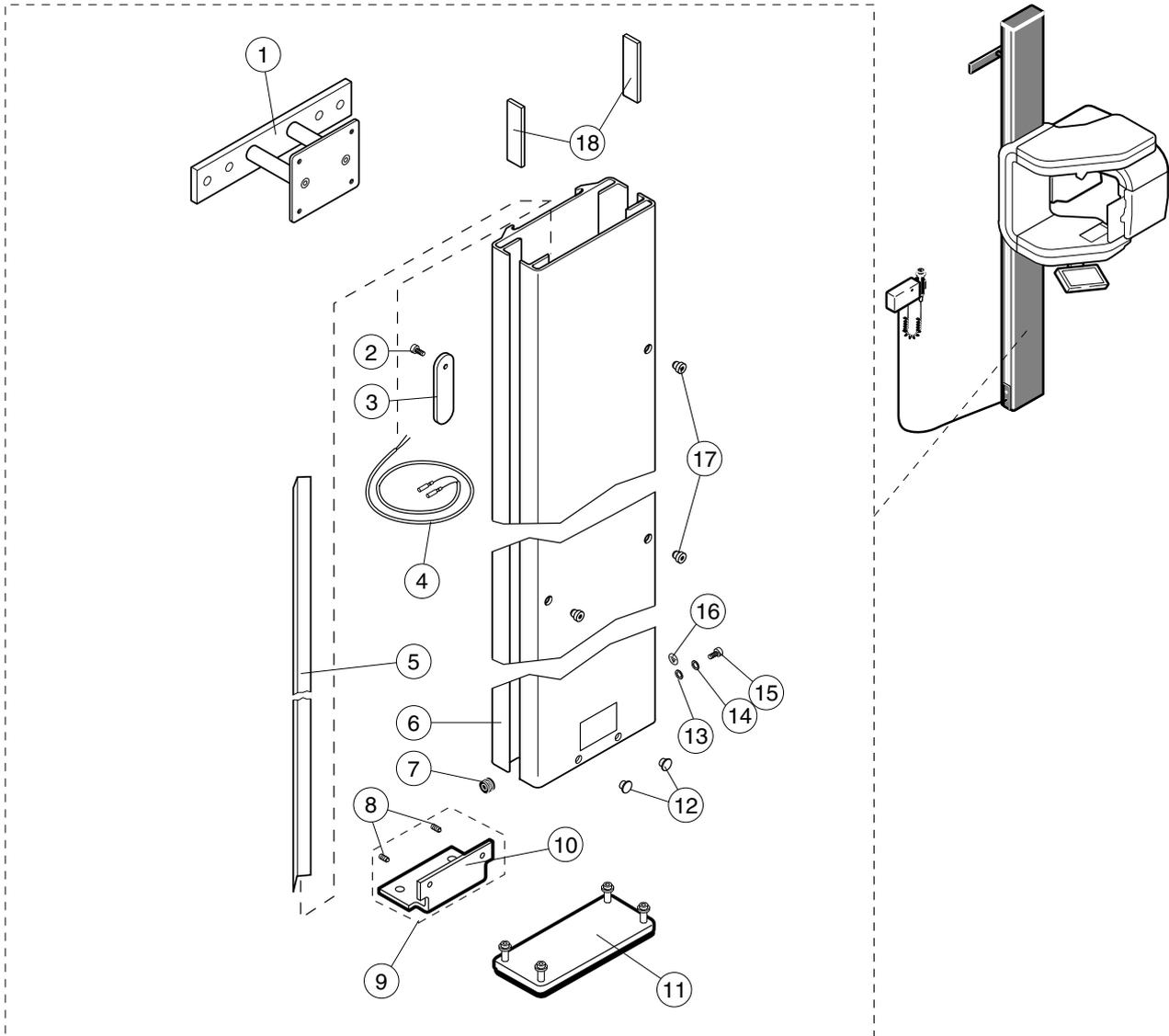
Chapter

**A**

# **PLANMECA PROLINE EC PANORAMIC X-RAY**

# 1 COLUMN

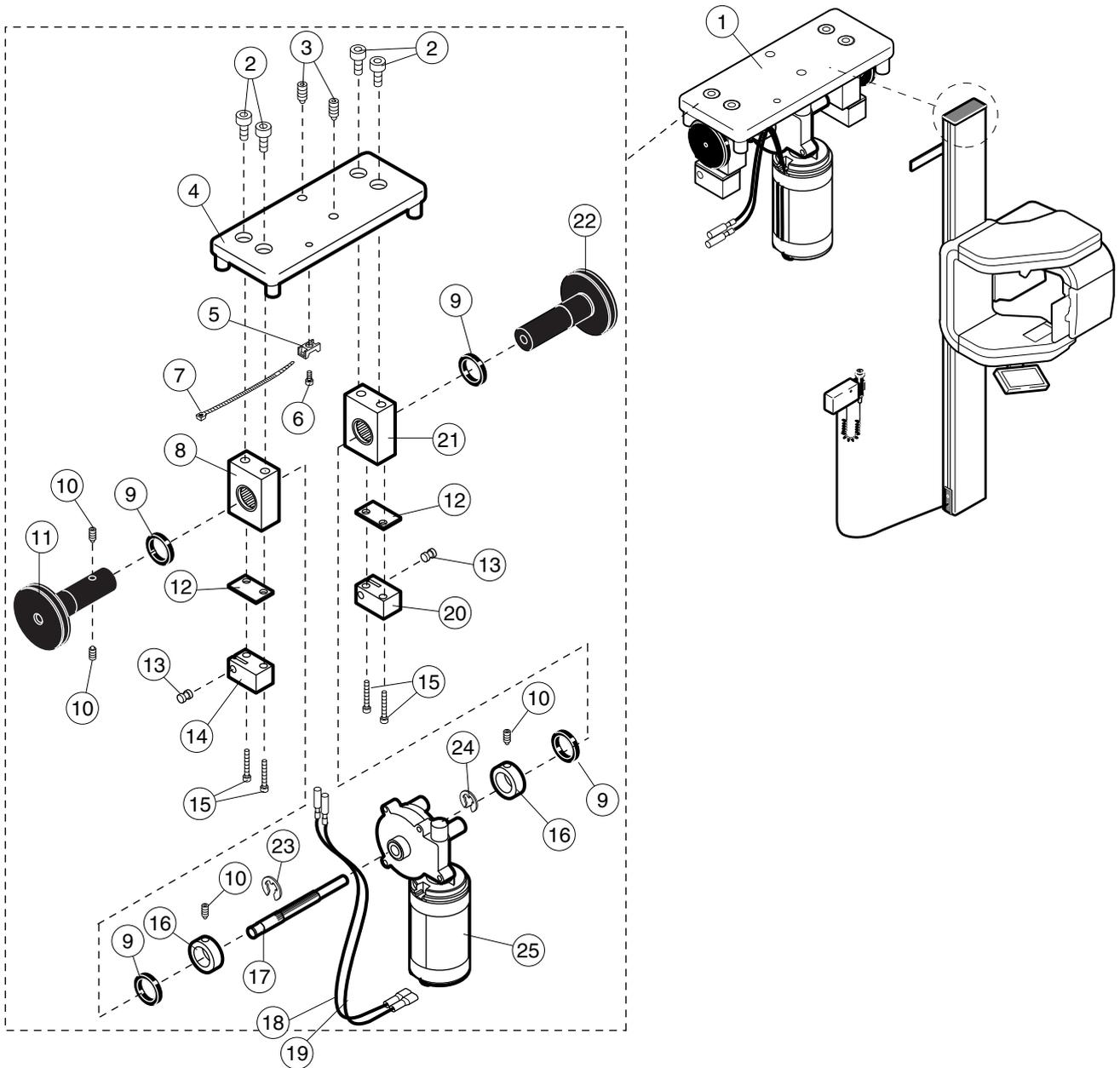
## 1.1 Column and wall bracket



Ref	Part no.	Description
<b>1</b>	<b>00050123</b>	<b>Wall bracket assembly</b>
2	00326025	Screw M4x5 DIN 7984
3	00006878	Cover plate
4A	00050848	Cable - length 2360mm
4B	00662100	Cable - length 2260mm (Japan)
5	00005999	Guide strip
6A	00005089	Column - length 2170mm
6B	00005087	Column - length 2070mm (Japan)
7	00001705	Grommet
8	00003141	Screw M6x6 DIN 916
<b>9</b>	<b>00671037</b>	<b>Lower bracket assembly</b>
10	00007498	Lower bracket
11	00050196	Base plate for column
12	00006552	Plug

Ref	Part no.	Description
13	00000400	Washer ø5.3/10x1 DIN 125A
14	00003244	Washer ø4.3 DIN 6798
15	00002922	Screw M4x8 DIN 912
16	00001530	Label LBL-XU-002
17	00665008	Stop magnet
18	00005463	Plate

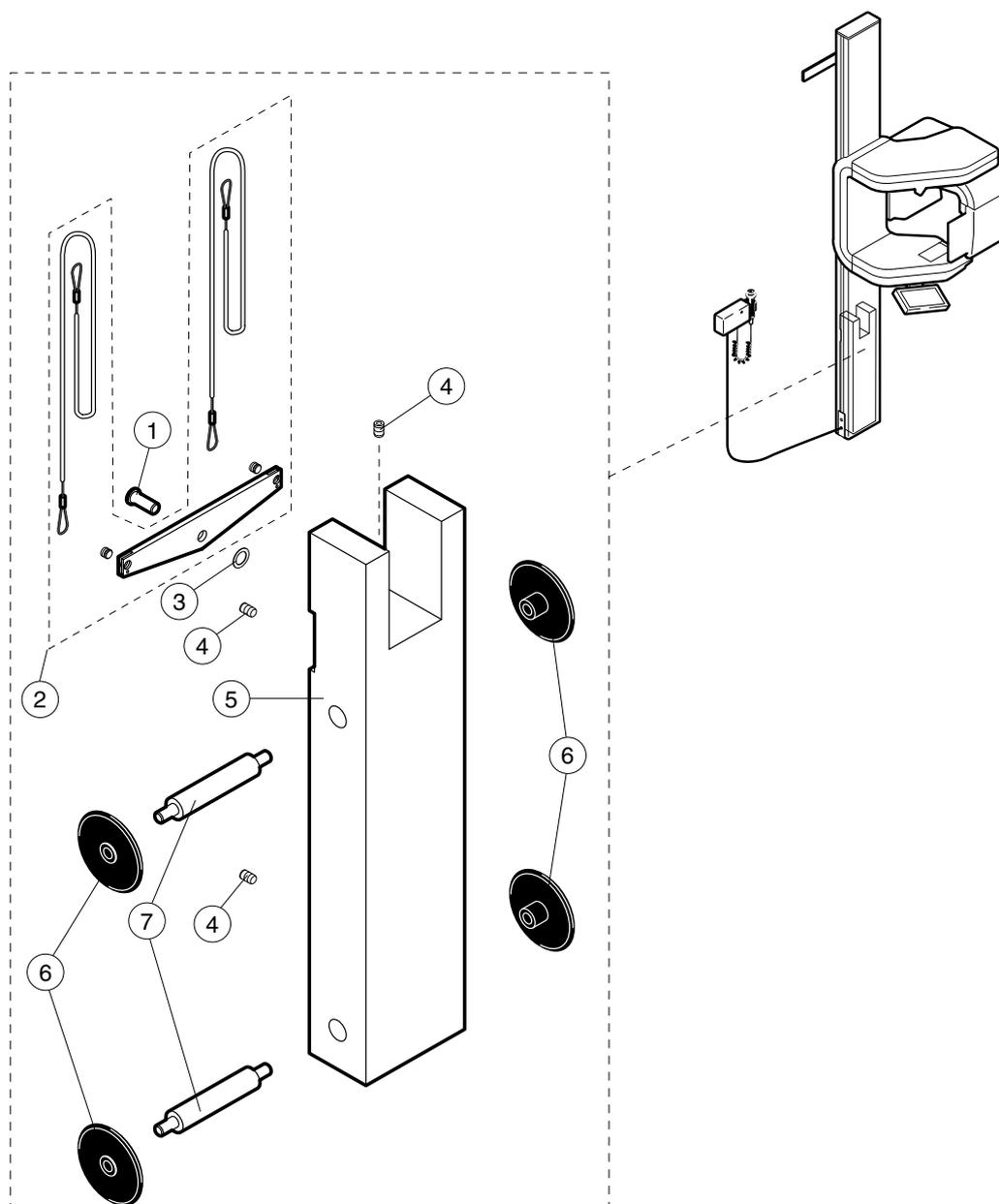
1.2 Z-motor



Ref	Part no.	Description
1	00665333	Z-motor complete
2	00003094	Screw M8x16 DIN 912
3	00003120	Screw M8x12 DIN 913
4	00005060	Top cover
5	00007016	Cable tie holder
6	00326015	Screw M4x6 DIN 7984
7	00001490	Cable tie
8	00655144	Bearing block, left
9	00005303	Washer
10	00005069	Screw M5x5 DIN 916
11	00005058	Pulley wheel
12	00005065	Anchor plate
13	00005712	Cable pin
14	00005067	Anchor block, left

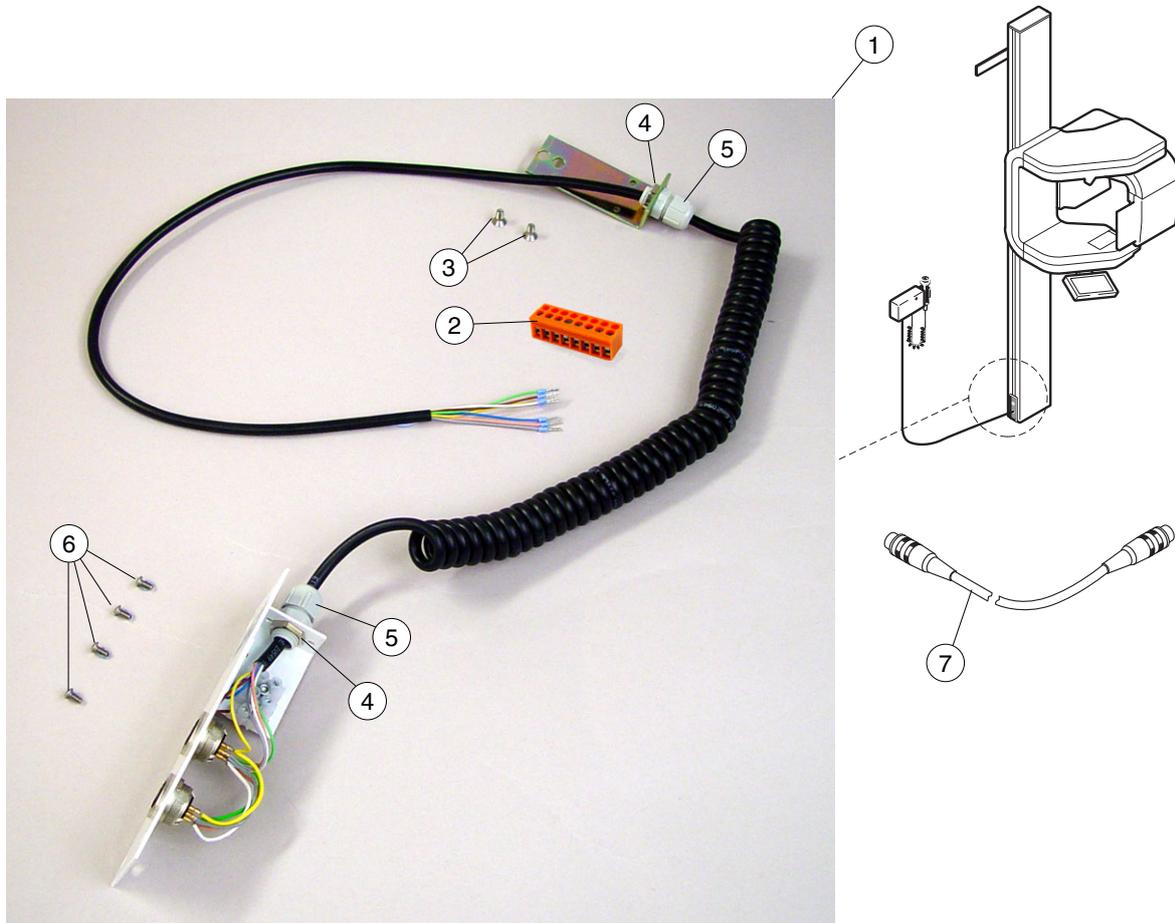
Ref	Part no.	Description
15	00007622	Screw M6x30 DIN 912
16	00005919	Collar
17	00652459	Z-axle
18	00637141	Z-motor cable, black
19	00637142	Z-motor cable, red
20	00005063	Anchor block, right
21	00005061	Bearing block, right
22	00005058	Pulley wheel
23	00327023	Lock washer A6 DIN 6799
24	00327020	Lock washer A5 DIN 6799
25	00431300	Z-motor ITT/SWF 02256GMPG 24V~

1.3 Counter weight



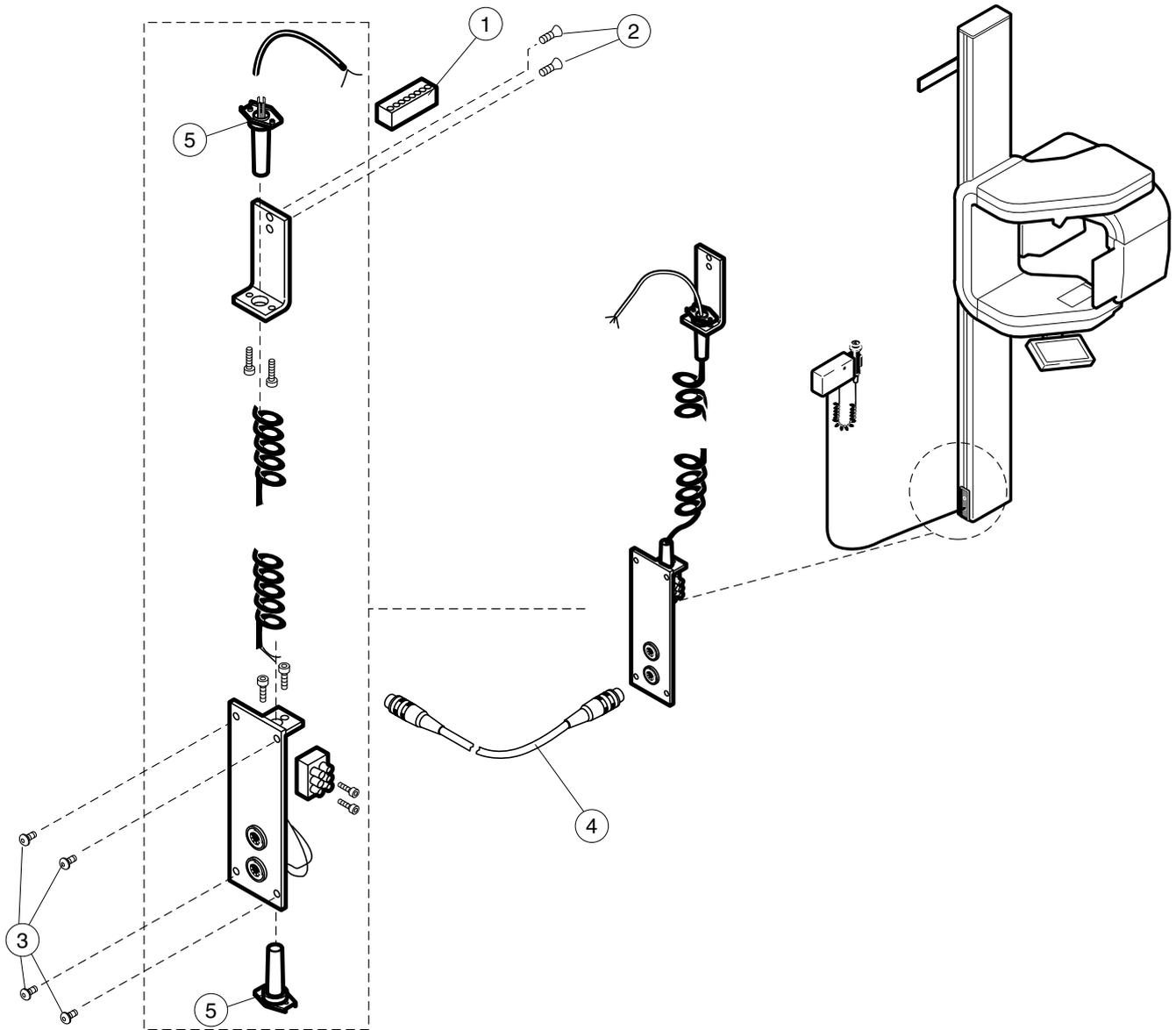
Ref	Part no.	Description
1	00005050	Pin
2A	00665002	Cable assembly - length 2135mm
2B	00665085	Cable assembly - length 1975mm (Japan)
3	00000717	Washer $\phi 12/\phi 18 \times 0.5$ DIN 988
4	00007451	Screw M8x12 DIN 916
5	00005054	Counter weight
6	00005051	Guide wheel
7	00005046	Axle

1.4 Column signal spiral cable, from ser. no XEC421512



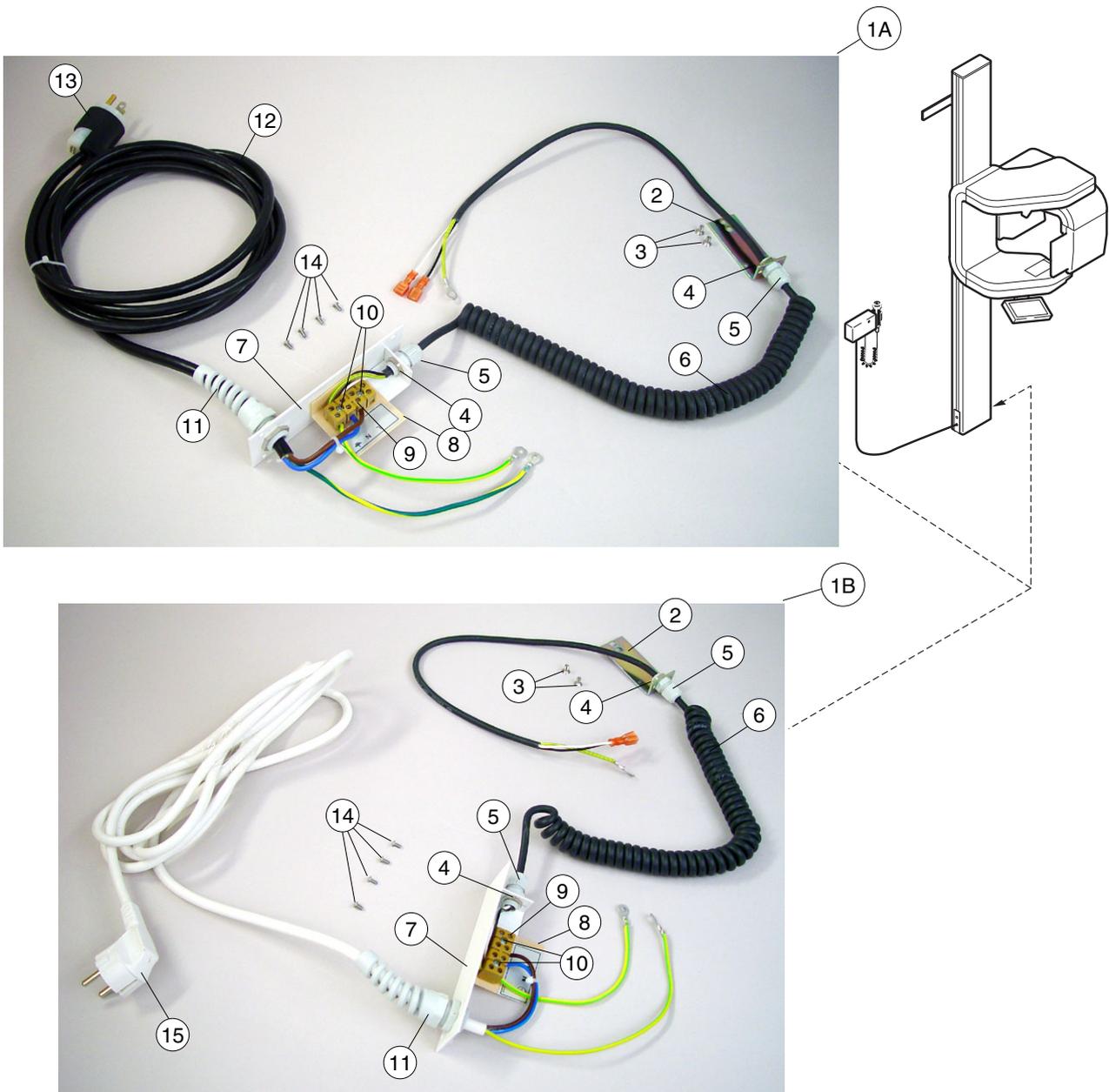
Ref	Part no.	Description
1	00050878	Column signal spiral cable assembly
2	00005412	Connector BLH-8
3	00003660	Screw M4x8 DIN 7991
4	10010225	Nut
5	10010226	Damper
6	00326039	Screw M3x6 ULS
7A	00050870	Autoprint cable 5m (female/female)
7B	00050871	Autoprint cable 10m (female/female)
7C	10010207	Autoprint cable 5m (male/female)
7D	10010208	Autoprint cable 10m (male/female)
7E	10010209	Autoprint cable 1.4m (male/female)
7F	00637128	Autoprint cable 50m (male/female)
7G	10010212	Autoprint cable 15m (male/female)

1.5 Column signal spiral cable, before ser. no XEC421512



Ref	Part no.	Description
1	00005412	Connector BLH-8
2	00003660	Screw M4x8 DIN 7991
3	00326039	Screw M3x6 ULS
4A	00050870	Autoprint cable 5m (female/female)
4B	00050871	Autoprint cable 10m (female/female)
4C	10010207	Autoprint cable 5m (male(female)
4D	10010208	Autoprint cable 10m (male/female)
4E	10010209	Autoprint cable 1.4m (male/female)
4F	00637128	Autoprint cable 50m (male/female)
4G	10010212	Autoprint cable 15m (male(female)
5	00000949	Strain reliefer

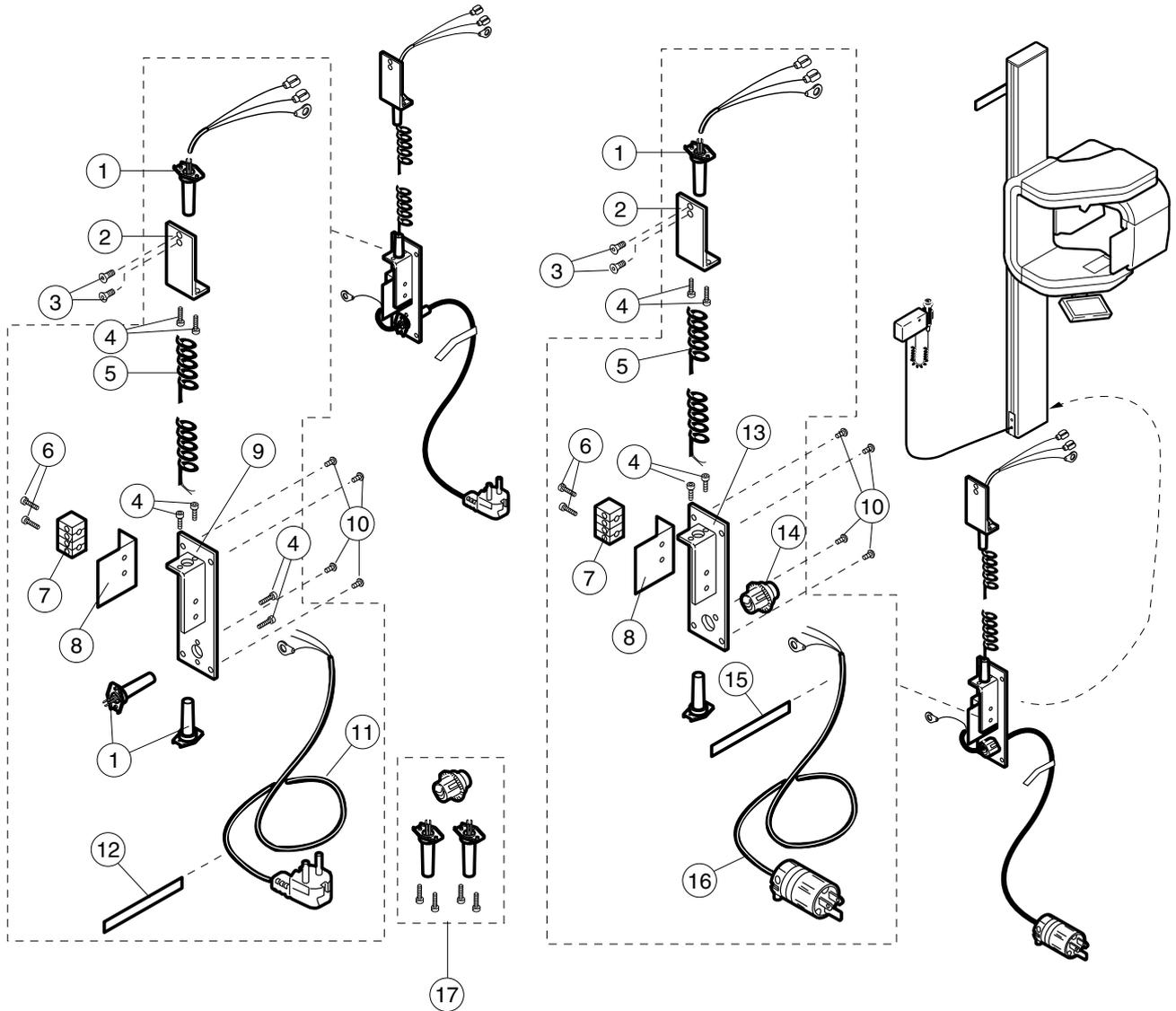
1.6 Main cable+spiral cable, from ser. no XEC421512



Ref	Part no.	Description
1A	00050821	Main cable+spiral cable <u>100-220V~</u>
1B	00050820	Main cable+spiral cable <u>220-240V~</u>
2	00005085	Plate
3	00003660	Screw M4x8 DIN 7991
4	10010225	Nut
5	10010226	Damper
6	00006185	Black spiral cable 3x1
7	00005093	Cable plate
8	00006292	Insulation
9	00006277	Terminal block
10	00007011	Screw M3x14 DIN 7985
11	10006553	Damper
12	00006541	Cable 100-110V~
13	10004738	Power supply plug

Ref	Part no.	Description
14	00326039	Screw M3x6 ULS
15	10010254	Main cable 220-230V~

1.7 Main cable+spiral cable, before ser. no XEC421512

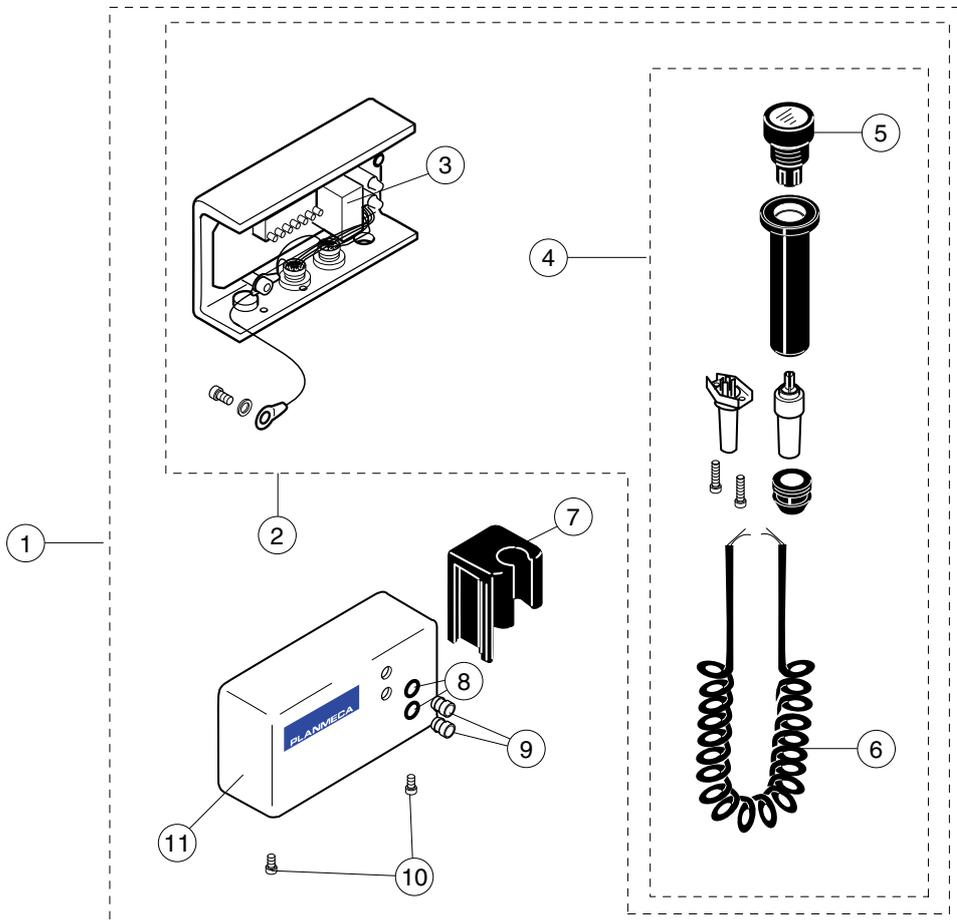


Ref	Part no.	Description
1	0000949	Strain reliefer
2	0005085	Plate
3	00003660	Screw M4x8 DIN 7991
4	00002798	Screw M3x20 DIN 84
5	00006185	Black spiral cable 3x1
6	00007011	Screw M3x14 DIN 7985
7	00006277	Terminal block
8	00006292	Plate
9	00005093	Cable plate
10	00326039	Screw M3x6 ULS
11	00000942	Main cable 220-240V~
12A	00001039	Label 220-230V~ (LBL-X-009A)
12B	00001040	Label 240V~ (LBL-X-010)

Ref	Part no.	Description
13	00007265	Cable plate
14	00007234	Strain reliefer
15A	00001039	Label 220V~ (LBL-X-009)
15B	00001030	Label 117V~ (LBL-X-008)
15C	00007131	Label 100V~ (LBL-X-007)
16	00471002	Cable 100-117V~
17	00471003	Strain reliefer set

1.8 Exposure switch assembly

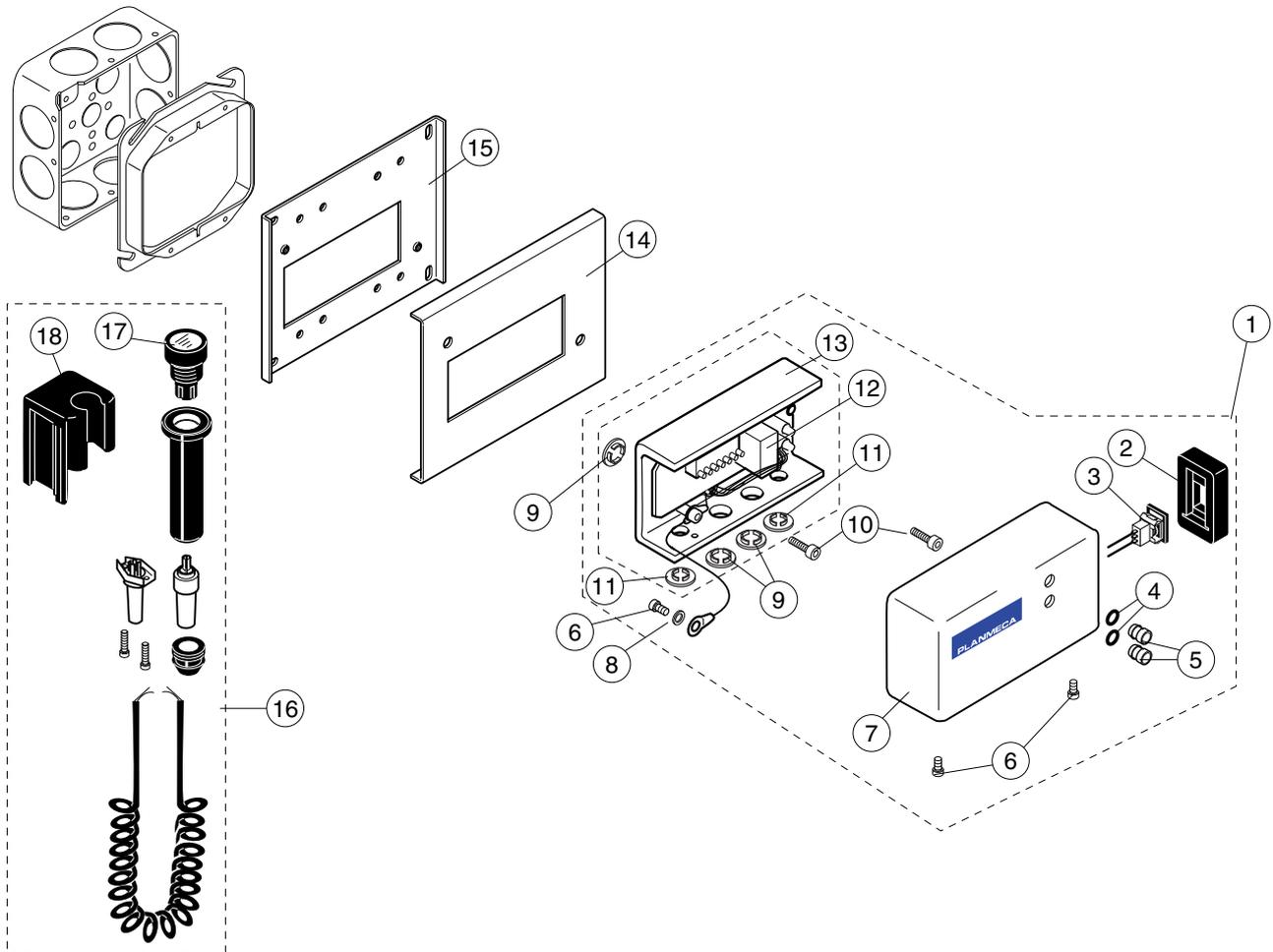
1.8.1 Exposure switch assembly, standard



Ref	Part no.	Description
1 <sup>1</sup>	00665093	Exposure switch assembly
2	00050877	Exposure switch frame assembly
3	00637007	Exposure control PCB
4	00471014	Exposure switch cable assembly
5	00438031	Switch assembly EAO 14.131
6	00006184	Spiral cable (cable only)
7	00650002	Switch holder
8	00524003	O-ring ø5.3x2.4
9	00006543	Led sleeve
10	00326018	Screw M3x6 DIN 912
11	00657001	X-ray remote control cover

1. See page A-10 for exposure switch assembly, USA version

1.8.2 Exposure switch assembly, USA version

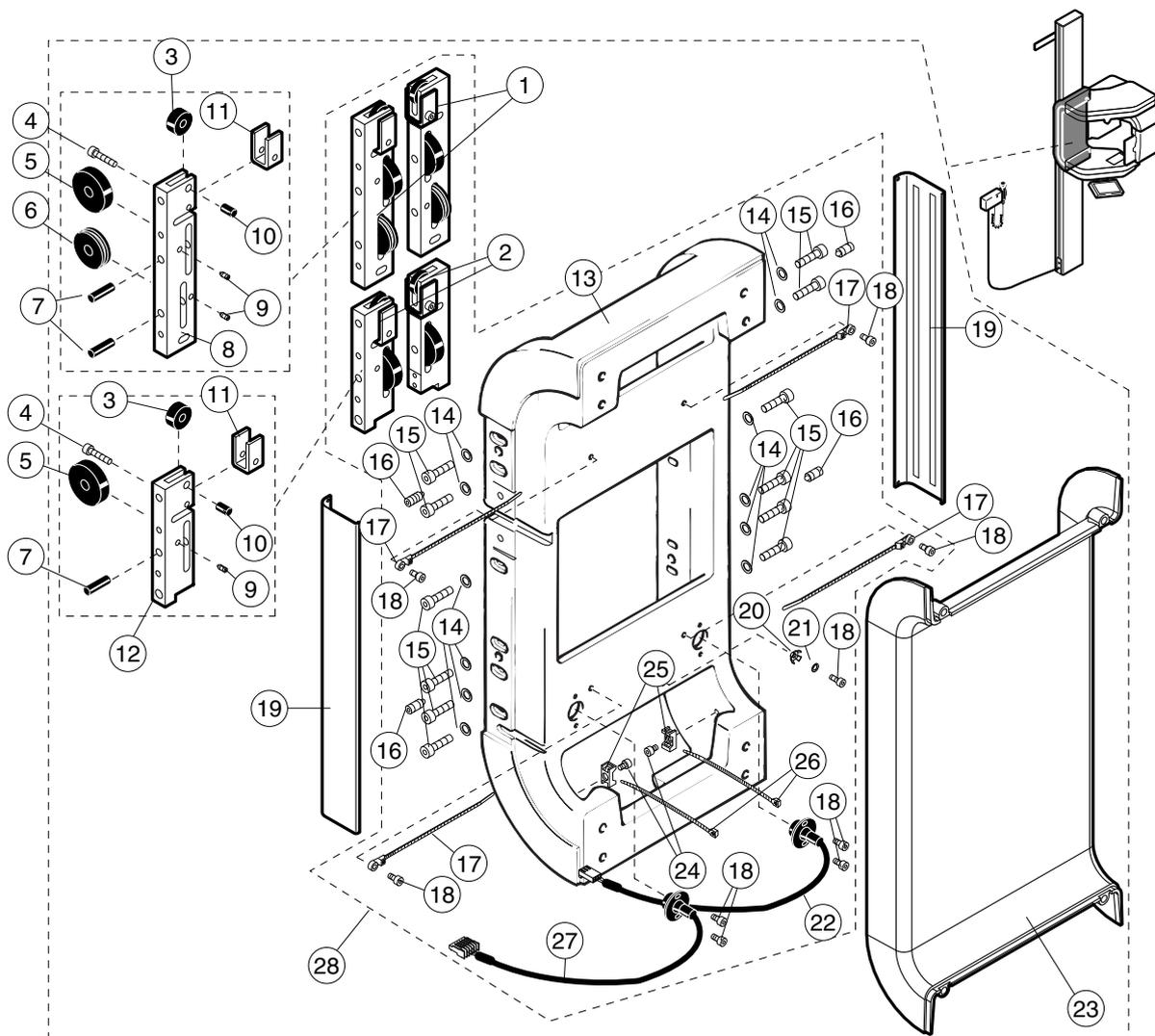


Ref	Part no.	Description
<b>1</b>	<b>00665159</b>	<b>Exposure switch assembly, USA</b>
2	00652520	Switch rubber
3	00637130	Switch
4	00524003	O-ring ø5.3x2.4
5	00006543	Led sleeve
6	00326018	Screw M3x6 DIN 912
7	00657001	X-ray remote control cover
8	00003242	Washer ø3.2 DIN 6798
9	00652497	Plug, big
10	00006807	Screw M4x12 DIN 7984
11	00652498	Plug, small
12	00637007	Exposure control PCB
<b>13</b>	<b>00637129</b>	<b>Exposure switch base USA</b>

Ref	Part no.	Description
14	00655103	Adapter upper plate
15	00655102	Adapter lower plate
<b>16</b>	<b>00471026</b>	<b>Exposure switch assembly kit, USA</b>
<b>17</b>	<b>00438031</b>	<b>Switch assembly EAO 14.131</b>
18	00650002	Switch holder

## 2 Z-CARRIAGE

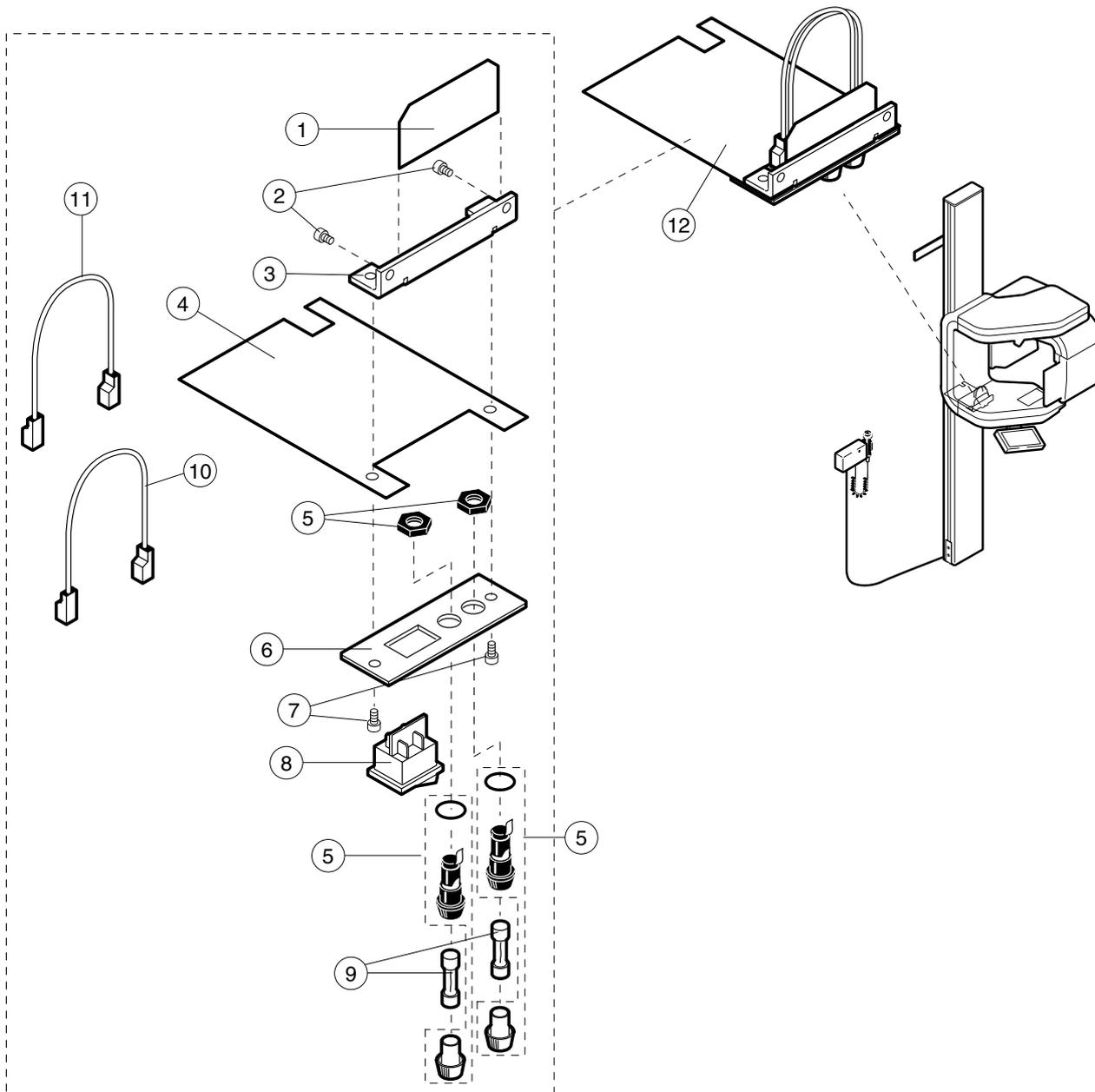
### 2.1 Z-carriage parts



Ref	Part no.	Description
1	00669000	Upper carriage guide (supplied in pairs)
2	00669001	Lower carriage guide (supplied in pairs)
3	00671012	Guide roller
4	00002430	Screw M4x20 DIN 7985
5	00005076	Guide roller
6	00005079	Pulley wheel
7	00005078	Guide roller axle
8	00005075	Upper adjusting support
9	00003545	Screw M4x4 DIN 916
10	00005077	Axle
11	00005856	Lock piece
12	00005083	Lower adjusting support
13	00655025	Z-carriage frame
14	00003001	Washer $\phi 6.4/\phi 12.5$ DIN 125
15	00005081	Screw M6x16 DIN 7984

Ref	Part no.	Description
16	00003120	Screw M8x12 DIN 913
17	00371003	Cable tie
18	00326026	Screw M4x8 DIN 7984
19	00005386	Cover strip+tape (not ceph.)
20	00001559	Contact washer
21	00003244	Washer $\phi 4.3$ DIN 6798
22	00050849	Z-motor limit switch
23A	00655020	Cover, up to ser. no REC409936
23B	10014644	Cover, from ser. no REC409937
24	00326015	Screw M4x6 DIN 7984
25	00007016	Cable tie holder
26	00001490	Cable tie
27	00637140	Z-motor optional limit switch
28	00665000	Z-carriage assembly, from ser. no CIH 402711 (Includes ON/OFF switch assembly, code 00665039, see page A-12)

2.2 On/Off switch assembly

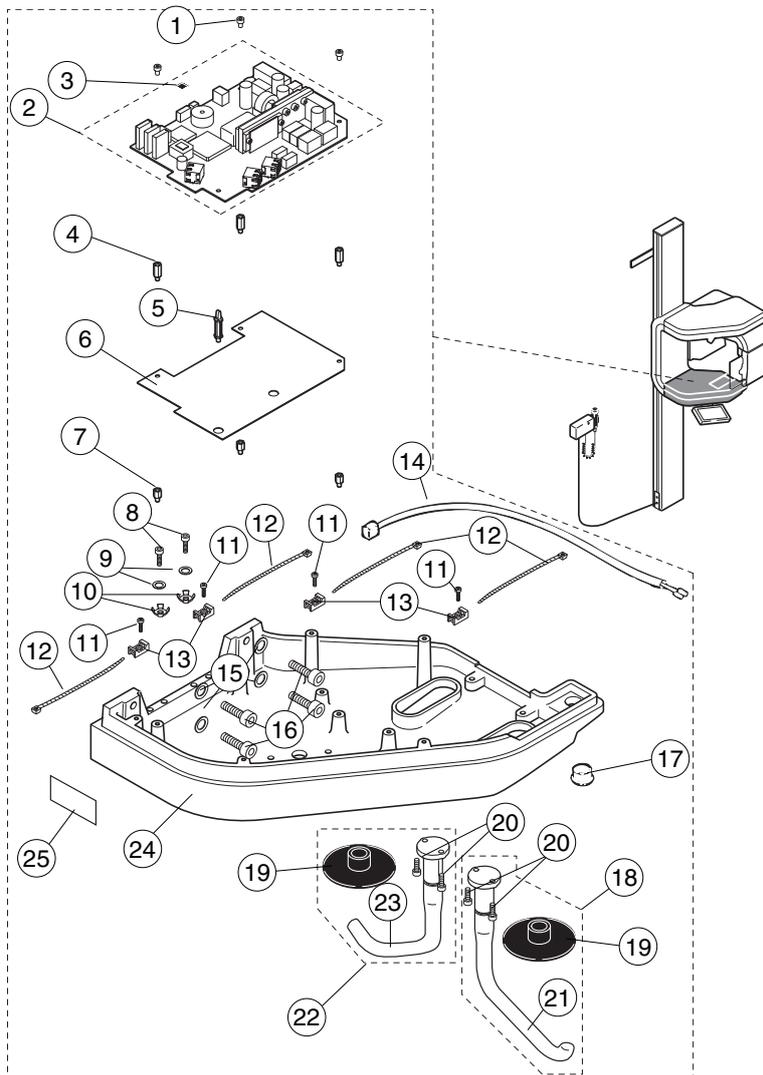


Ref	Part no.	Description
1	00653029	Switch insulation (small) +tape (code 12001)
2	00326015	Screw M4x6 DIN 7984
3	00005922	Bracket
4	00006293	Switch insulation (large)
5	<b>00006357</b>	<b>Fuse holder-complete</b>
6	00005384	Switch plate
7	00326015	Screw M4x6 DIN 7984
8	00006049	Switch
9A	10007707	Fuse 100-132V~ 16A FF (USA, Japan)
9B	10007706	Fuse 180-240V~ 8A FF
10	00050832	Connecting cable (brown)
11	00050831	Connecting cable (blue)

Ref	Part no.	Description
12	<b>00665039</b>	<b>ON/OFF switch assembly</b>

### 3 LOWER SHELF

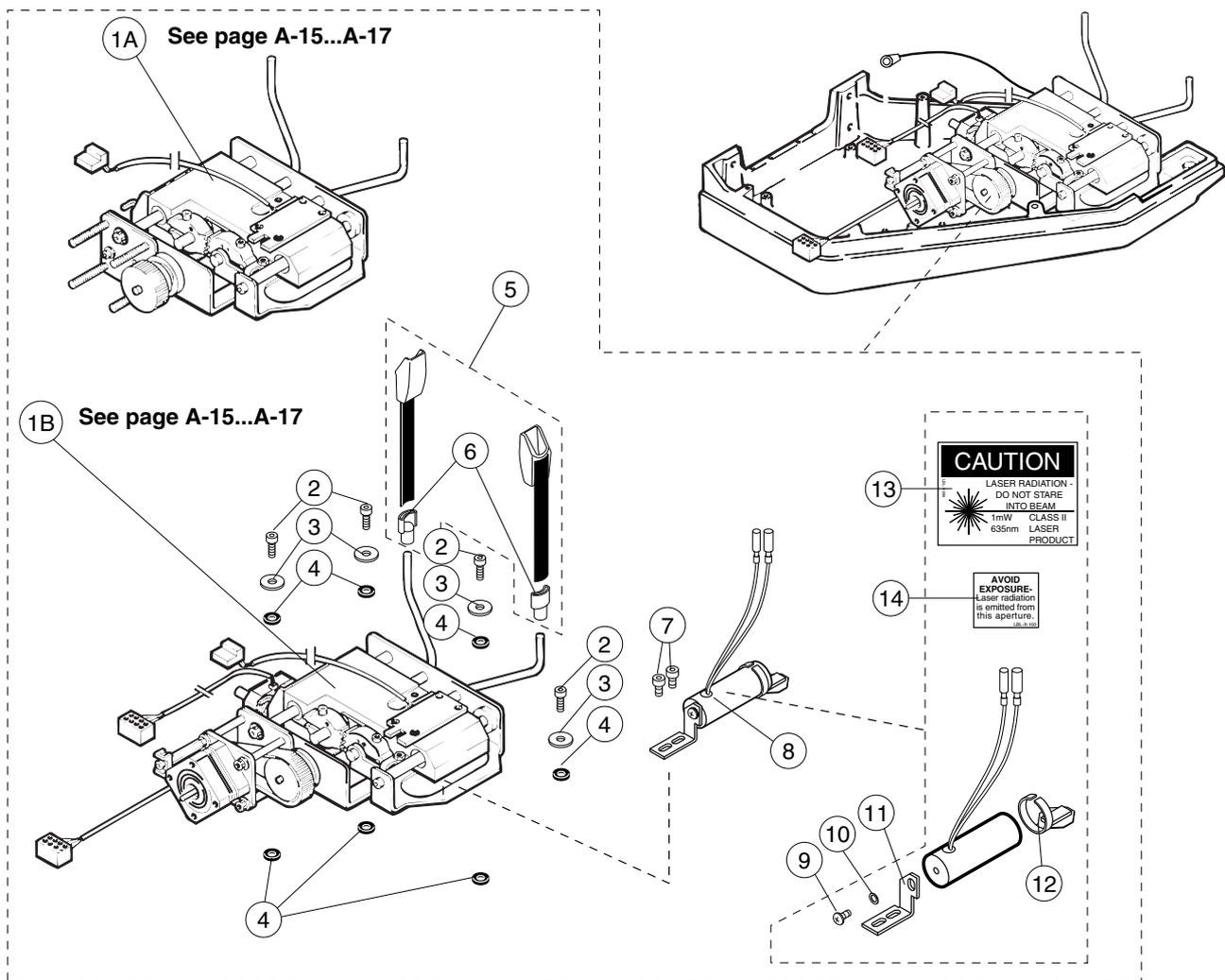
#### 3.1 Lower shelf casting and pcb



Ref	Part no.	Description
1	00326015	Screw M4x6 DIN 7984
2	10009419	Keyboard processor PCB 105-10-27
3A	10011478	Software PK, film, from ser. no 421512, see "Software and PCB compability information"
3B	10012715	Software PK, film, before ser. no 421512, see "Software and PCB compability information"
4	10003343	PCB holder bush BN3318 4x14mm
5	00006272	PCB holder
6	10010150	PCB bottom shield
7	10003168	PCB holder bush BN3318 4x8mm
8	00006807	Screw M4x12 DIN 7984
9	00003244	Washer ø4.3 DIN 6798
10	00001559	Ground washer
11	00326230	Screw Egot DG Wn 4x6
12	00001490	Cable tie

Ref	Part no.	Description
13	00007016	Cable tie holder
14A	10010182	Layer light cable from ser. no XEC421512
14B	00050829	Layer light cable
15	00003003	Washer ø8.4/ø17 DIN 125
16	00007050	Screw M8x35 DIN 912
17	00624001	Plug
18	<b>00671028</b>	<b>Patient handle assembly (left)</b>
19	00006672	Rubber of handle
20	00007327	Screw M4x12 DIN 912
21	00655096	Patient handle (left)
22	<b>00671027</b>	<b>Patient handle assembly (right)</b>
23	00655097	Patient handle (right)
24	00655027	Lower shelf
25	00007510	Label (LBL-X-011)

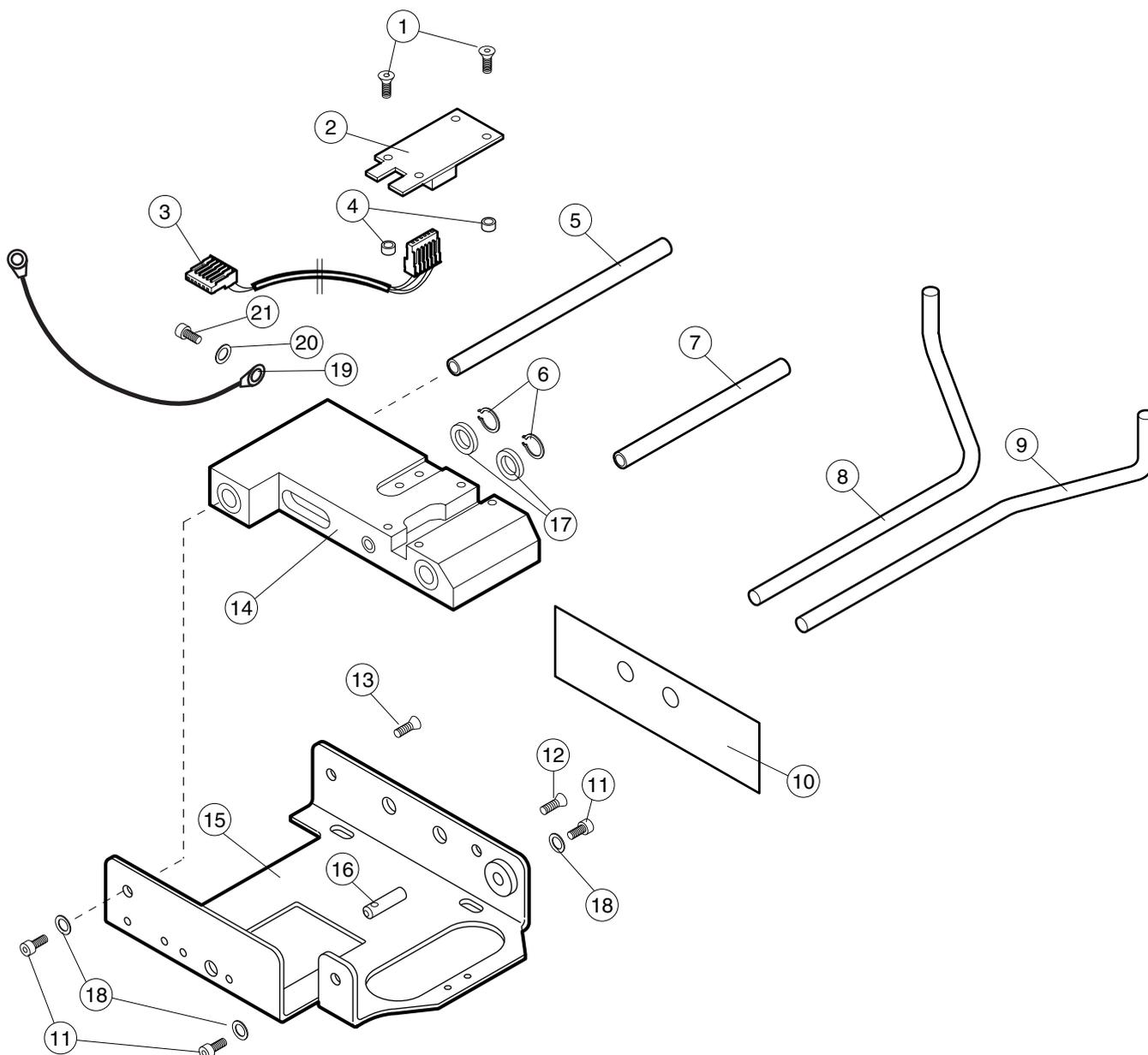
3.2 Patient positioning mechanism and focal trough laser



Ref	Part no.	Description
1A	00671032	Pat. pos. mechanism - without motors
1B	00665004	Pat. pos. mechanism - with motors
2	00006334	Screw M5x12 DIN 7984
3	00007146	Washer ø5.3/ø15 DIN 9021
4	00007351	Rubber damper
5	00050124	Temple grip assembly
6	00005851	Holder
7	00326026	Screw M4x8 DIN 7984
8	00665330	Focal trough laser assembly
9	00007356	Screw M4x8 WN 1442
10	00002999	Washer ø4.3/9 DIN 125
11	00005393	Lamp bracket
12	00671017	Mirror bracket

Ref	Part no.	Description
13	00620102	Laser caution label, USA (LBL-X-099)
14	00620103	Laser warning label, USA (LBL-X-100)

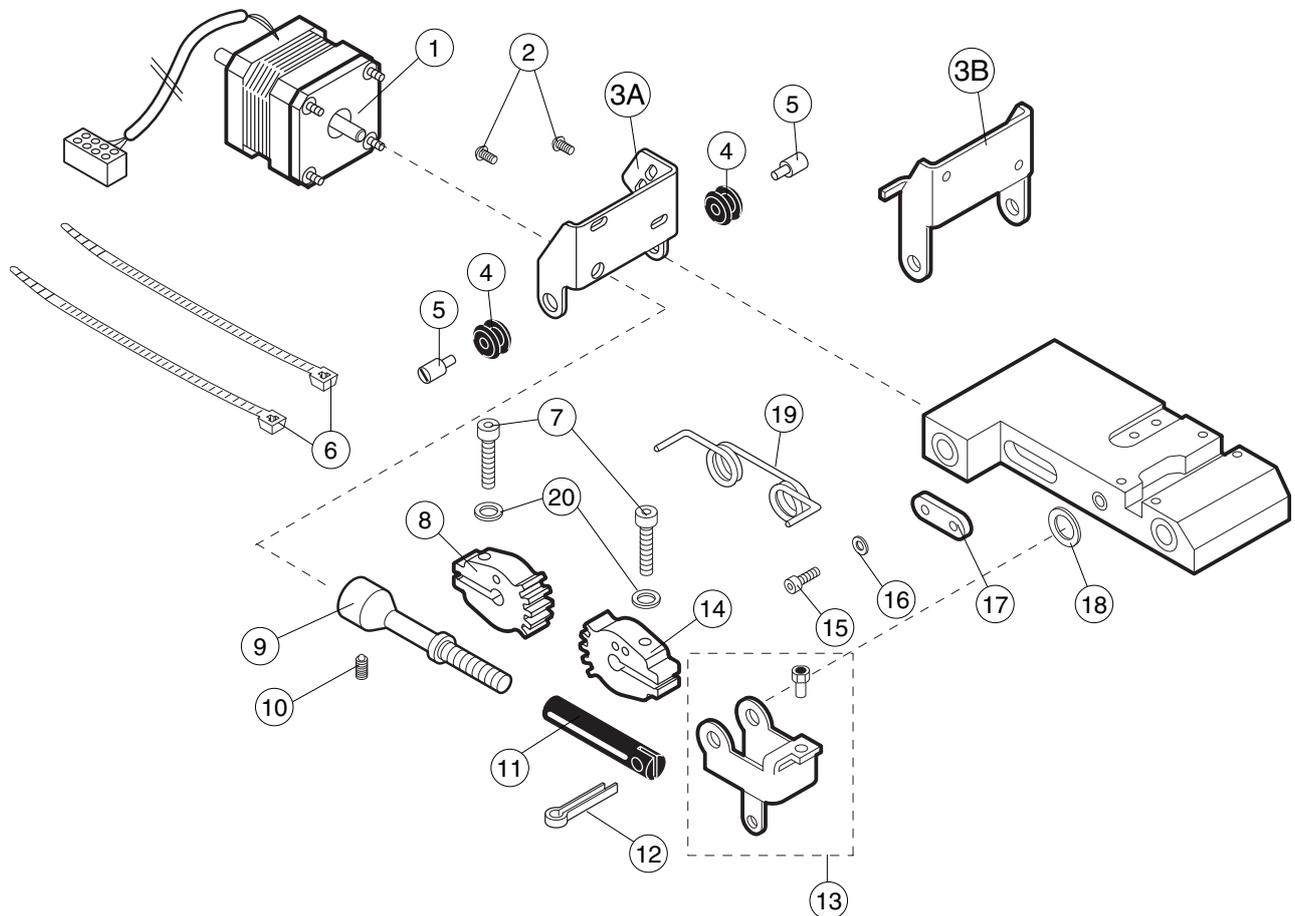
3.3 Patient positioning mechanism parts 1



Ref	Part no.	Description
1	00002057	Screw M3x8 DIN 965
2	00050730	Layer/Hold limits PCB 105-10-07
3	10010201	Layer limit card cable
4	00005140	Spacer
5	00005122	Axle, long
6	00000723	Circlip ø8 DIN 471
7	00005123	Axle, short
8	00005841	Support arm, right
9	00005235	Support arm, left
10	00007245	Sticker
11	00006334	Screw M5x12 DIN 7984
12	00002510	Screw M4x6 DIN 7991
13	00006622	Screw M5x10 DIN 7991

Ref	Part no.	Description
14	<b>00665057</b>	<b>Holder block assembly</b>
15	00005921	Chassis
16	00665019	Pin
17	00000161	Washer ø19/9x2.5
18	00003000	Washer ø5.3/10 DIN 125
19	10006989	Cover earthing cable
20	00326245	Washer ø4 DIN 6798
21	00326103	Screw M4x6 DIN 912

3.4 Patient positioning mechanism parts 2

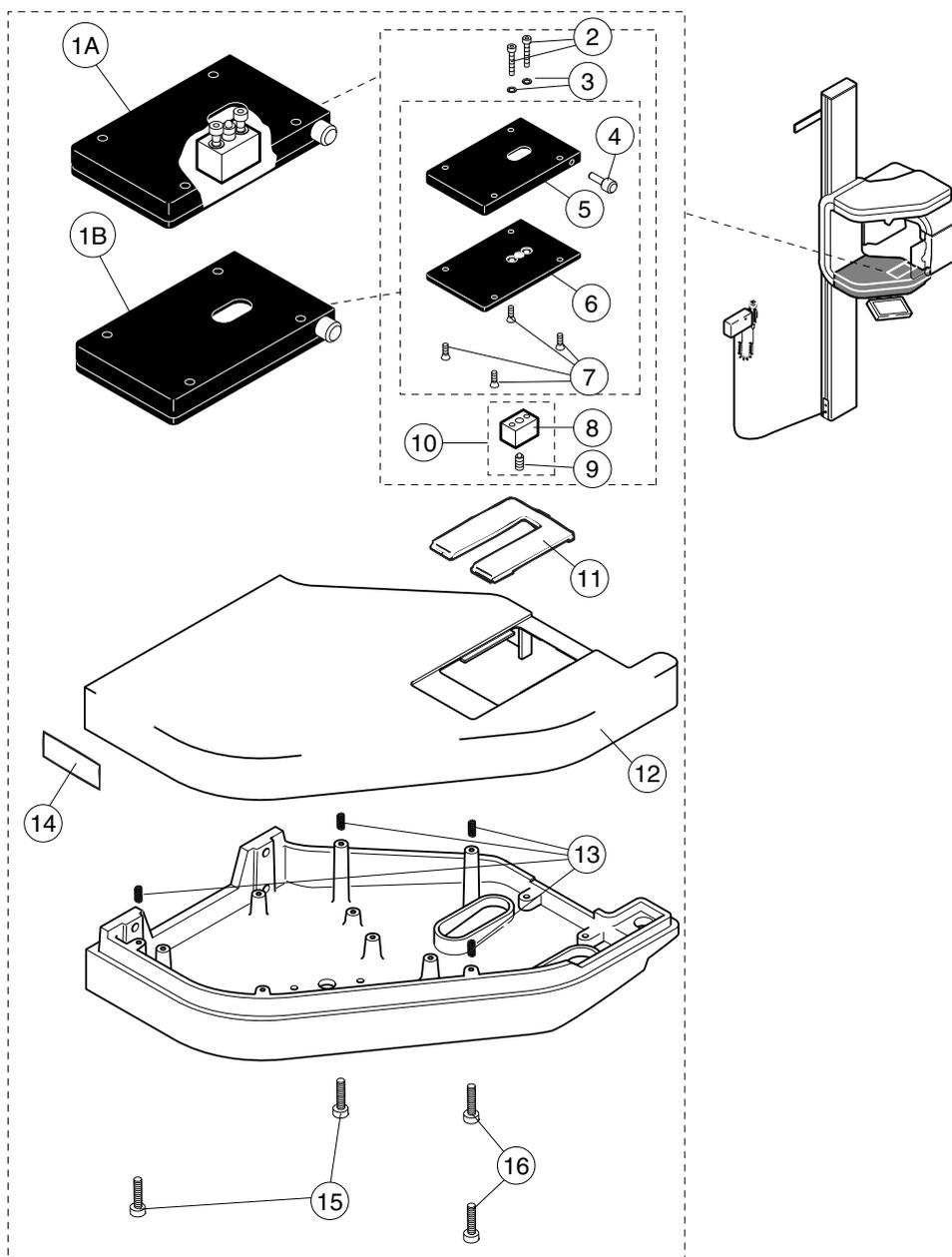


Ref	Part no.	Description
1	00665021	Temple support motor
2	00326125	Screw M3x8 ISO 7380
3A	10010588	Motor holder, from ser. no REC409819
3B	00005132	Motor holder
4	00005864	Rubber damper
5	00005137	Pivot screw
6	00001490	Cable tie
7	00003254	Screw M4x20 DIN 912
8	00007605	Quadrant, left
9	00005135	Motor shaft
10	00003138	Screw M4x4 DIN 916
11	00005136	Adjusting screw
12	00006524	Split pin ø4 DIN 94

Ref	Part no.	Description
13	00665020	Magnet holder assembly
14	00007604	Quadrant, right
15	00003388	Screw M4x16 DIN 933
16	00002999	Washer ø4.3/ø9 DIN 125
17	00005985	Plate
18	00000701	Washer ø8/ø14x0.5
19	00007345	Spring
20	00006426	Washer ø4/8x0.5 DIN 988



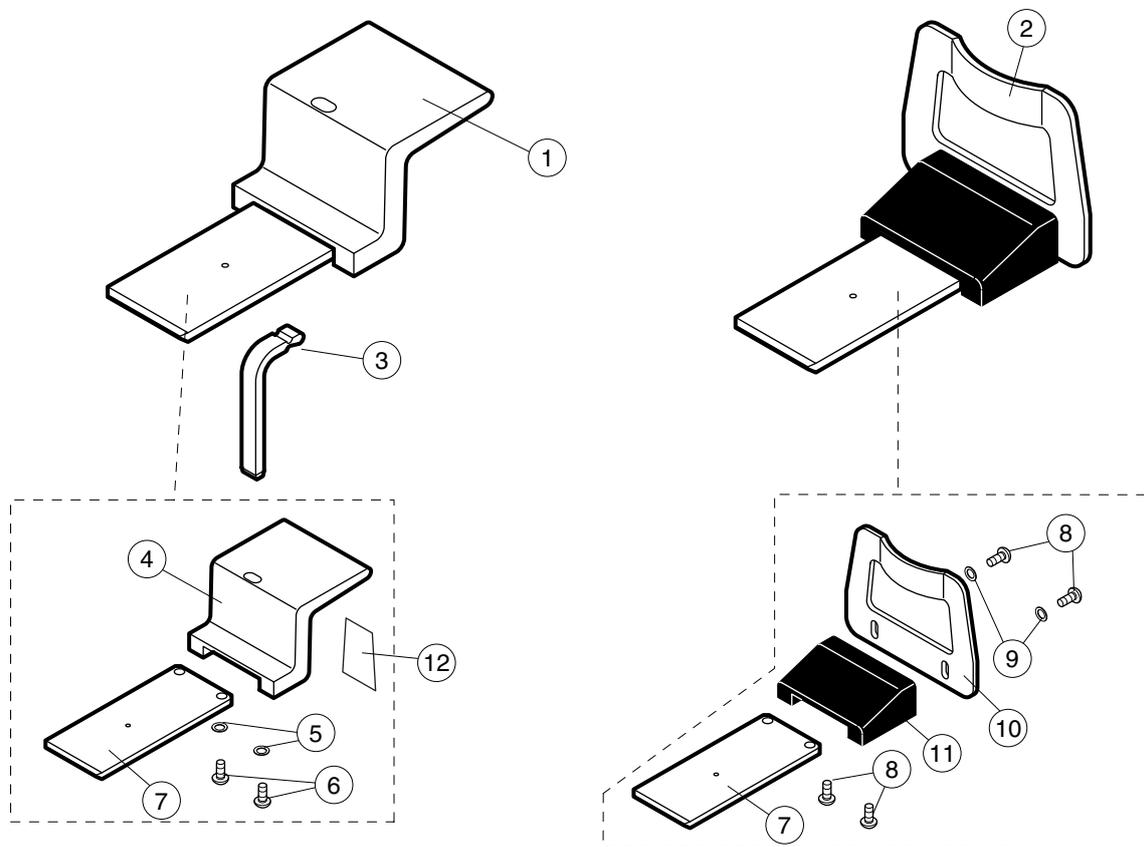
3.6 Cover and support holder



Ref	Part no.	Description
1A	00671033	Support holder - with latch
1B	00665016	Support holder - without latch
2	00626001	Screw M4x25 DIN 7984
3	00627001	Washer ø4/ø8 DIN 988
4	00652187	Finger screw
5	00652176	Plate cover
6	00005226	Plate
7	00002510	Screw M4x6 DIN 7991
8	00005225	Fixing block
9	00004820	Ball latch M6x14 GN615
10	00665015	Latch block assy
11	00651509	Cover plate
12A	00655026	Cover, up to ser. no REC409936

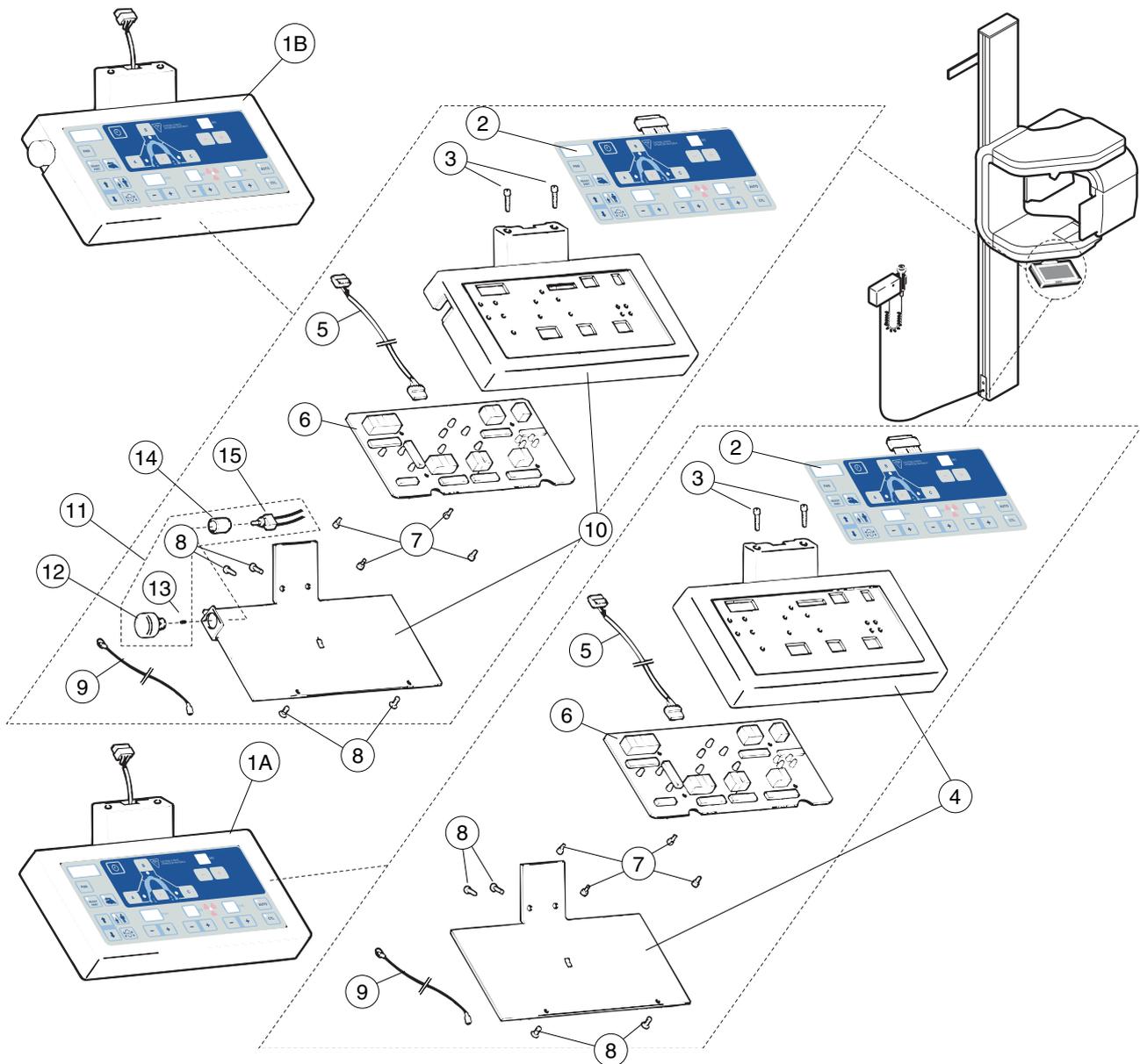
Ref	Part no.	Description
12B	10014642	Cover, from ser. no REC409937
13	00654011	Spring
14A	00007512	Label (LBL-X-013)
14B	00003550	Label (LBL-X-043) (France only)
15	00326009	Screw M4x60 DIN 912
16	00326008	Screw M4x50 DIN 912

3.7 Chin supports



Ref	Part no.	Description
1	00665013	Chin support complete
2	00665014	Chin rest complete
3A	00005234	Bite piece
3B	00050956	Bag of 100 bite pieces
4	00005236	Support piece
5	00002998	Washer $\varnothing 3.2$ DIN 125
6	00326014	Screw M4x16 ZN
7	00005231	Slide plate
8	00326040	Screw M4x8 ULS
9	00003326	Washer $\varnothing 4/8 \times 0.5$ DIN 988
10	00005238	Rest
11	00005237	Block
12	00653209	Clearance plate

3.8 Control console

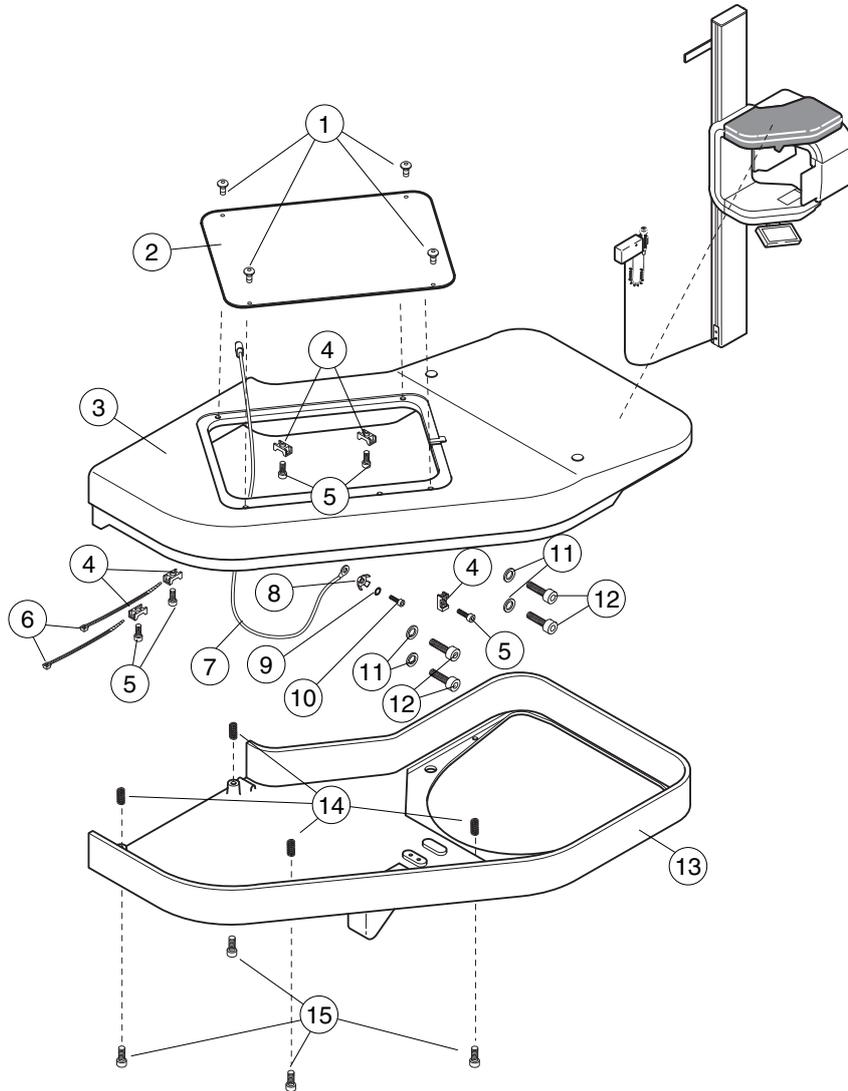


Ref	Part no.	Description
1A	00665147	Control console
1B	00665155	Control console with stop button
2	10007924	Keypad membrane PMK10505
3	00326034	Screw M5x16 DIN 6912
4	10010541	Keypad housing and base plate
5	10010202	Control panel cable
6	10009458	Display/Keyboard 105-10-30
7	00326018	Screw M3x6 DIN 912
8	00326005	Screw M4x10 DIN 7991
9	00050855	Ground lead
10	10010542	Keypad housing and base plate, stop
11	00665083	Stop button assy
12	00671086	Stop button with label (LBL-X-089)

Ref	Part no.	Description
13	00624000	Rubber damper
14	00007438	Fixing collar
15	00050876	Stop switch cable

## 4 UPPER SHELF

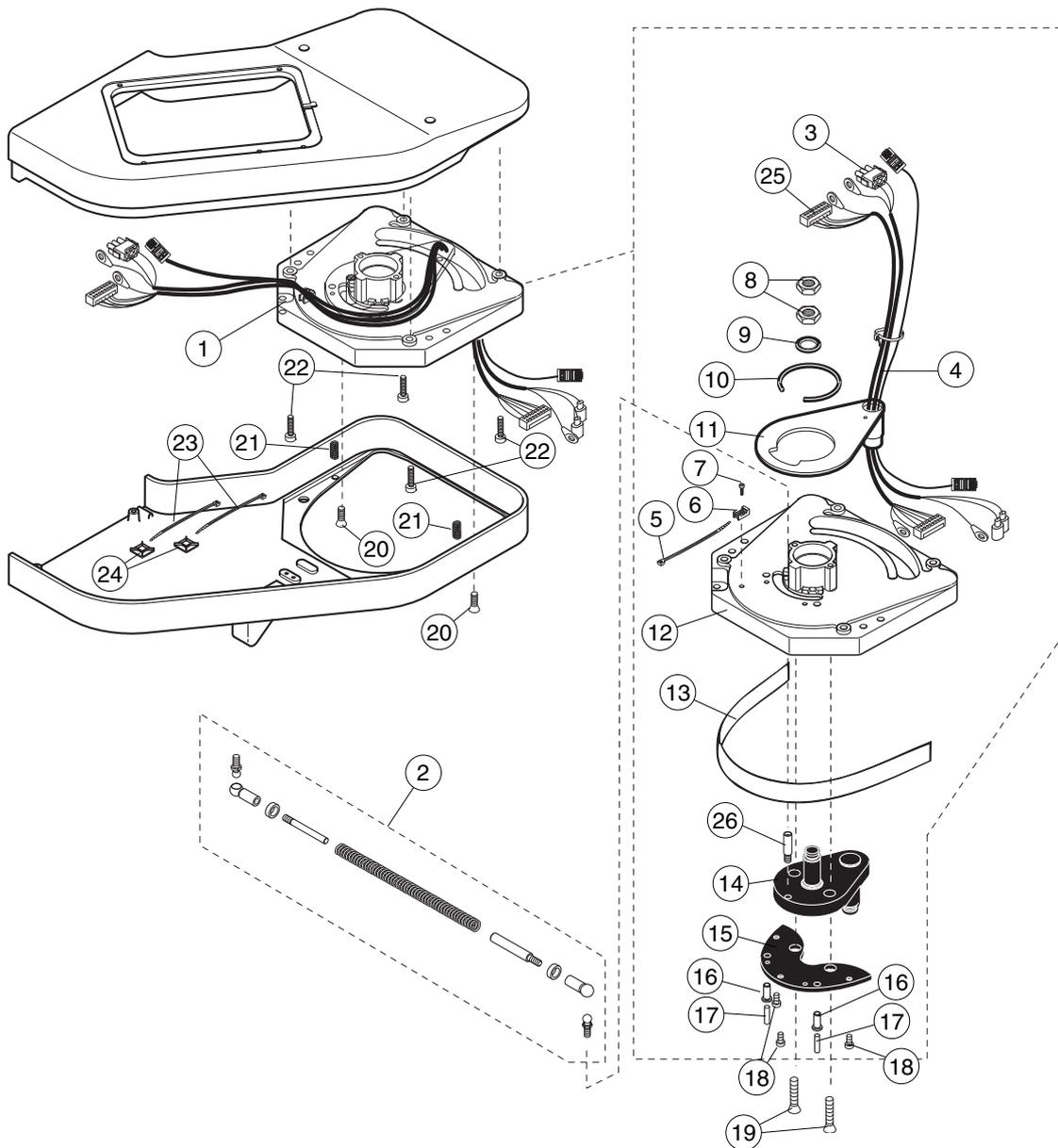
### 4.1 Power supply and covers



Ref	Part no.	Description
1	00326040	Screw M4x8 ULS
2	00005470	Cover
3	00655029	Upper shelf casting
4	00007016	Cable tie holder
5	00326230	Screw Ejot DG Wn 4x6
6	00001490	Cable tie
7	00050854	Grounding cable
8	00001559	Gound washer
9	00003244	Washer ø8.4/17 DIN 125
10	00006807	Screw M4x12 DIN 7984
11	00003003	Washer ø8.4/17 DIN 125
12	00007050	Screw M8x35 DIN 912
13A	00655028	Cover, up to ser. no REC409936

Ref	Part no.	Description
13B	10014643	Cover, from ser. no REC409937
14	00654011	Spring
15	00006992	Screw M4x20 DIN 912

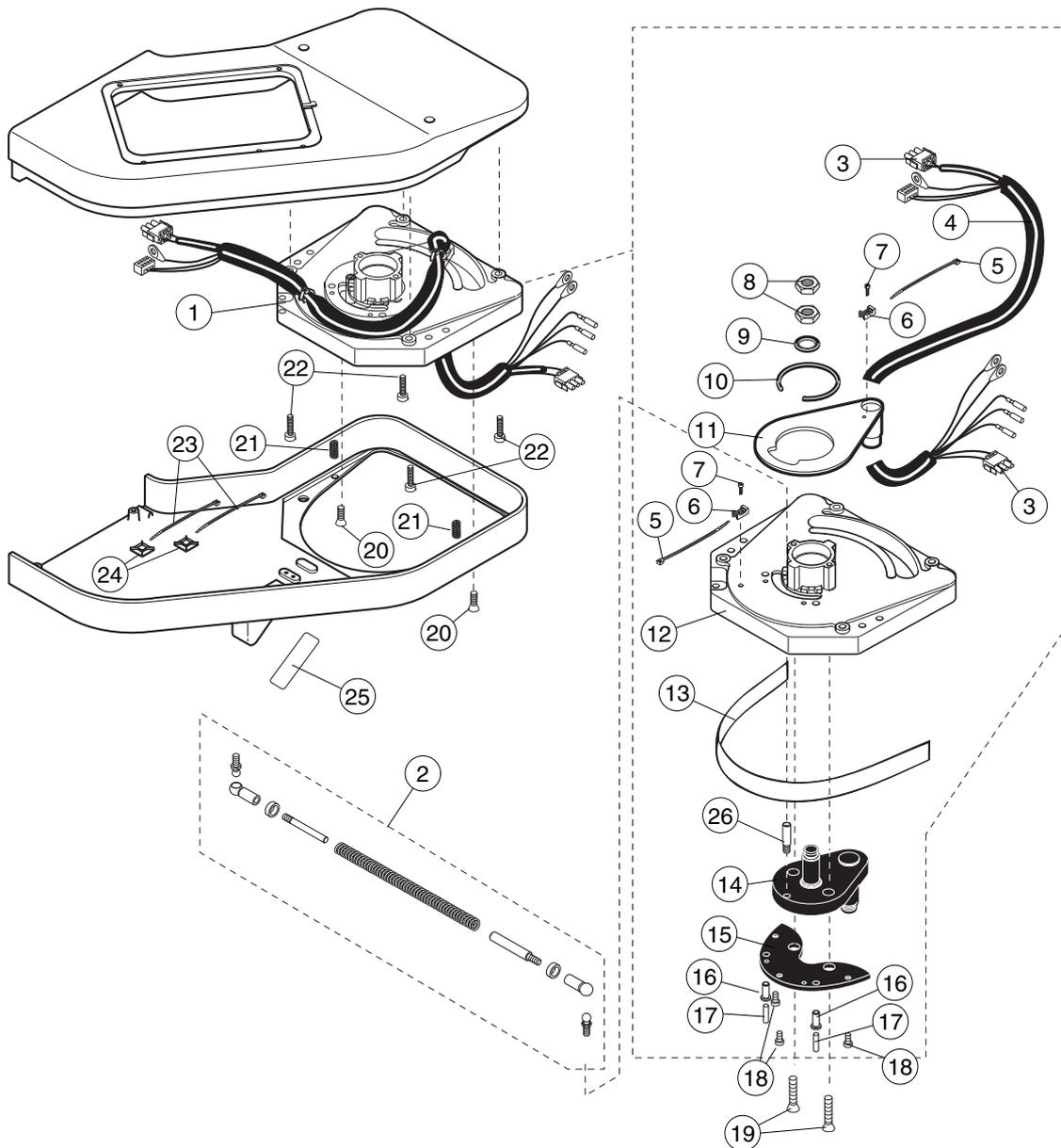
4.2 Guide block assembly, from ser. no XEC421512



Ref	Part no.	Description
1	10010313	Guide block assembly
2	10010801	Spring tension mechanism
3	00435051	Connector 0-350766-1
4	10010191	Connecting cable
5	00001490	Cable tie
6	00007016	Cable tie holder
7	00326015	Screw M4x6 DIN 7984
8	00005110	Nut
9	00000709	Washer ø18/25
10	00665076	Lock ring
11	00665074	Cable guide assembly
12	00655104	Guide block
13	00665077	Wear strip

Ref	Part no.	Description
14	00665073	Crank assembly
15	00665075	Guide profile assembly
16	00005302	Magnet holder
17	00006267	Magnet
18	00005836	Screw M6x12 DIN 7984
19	00005120	Screw M6x45 DIN 7991
20	00006332	Screw M4x12 DIN 7991
21	00654011	Spring
22	00002930	Screw M8x30 DIN 912
23	00001490	Cable tie
24	00002269	Cable tie holder
25	10009910	Connector
26	00005113	Deflection spring axle

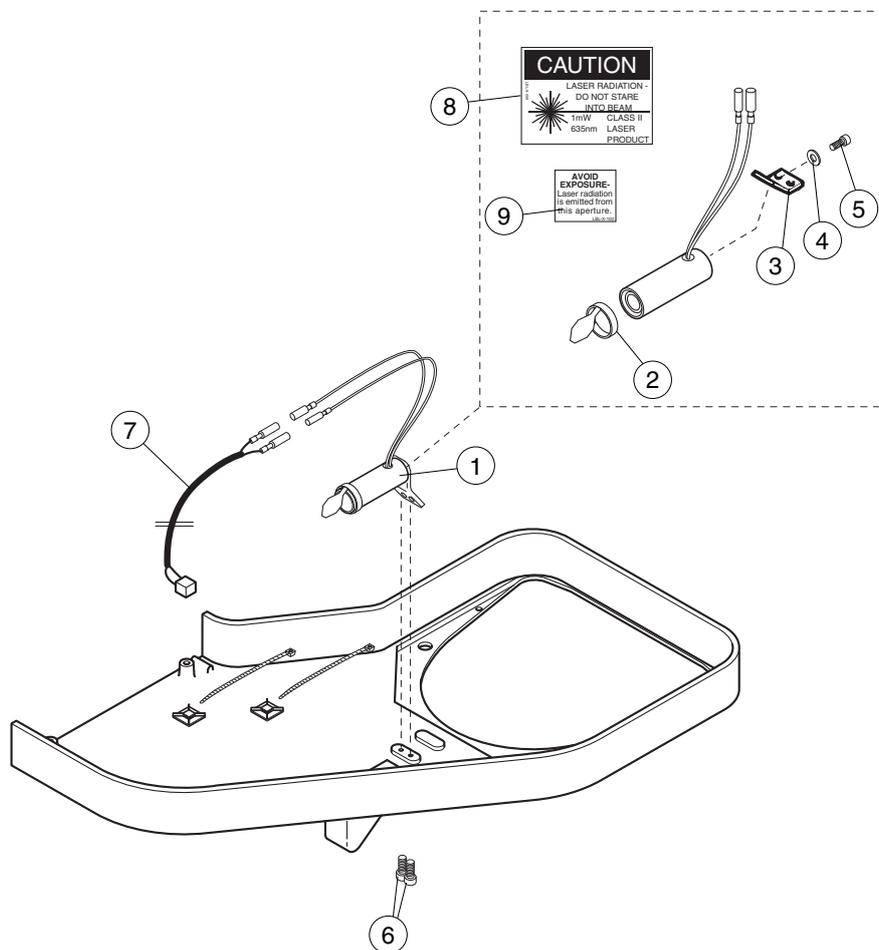
4.3 Guide block assembly, before ser. no XEC421512



Ref	Part no.	Description
1	00665003	Guide block assembly
2	10010801	Spring tension mechanism
3	00000460	Connector 0-350766-1
4	00050836	Connecting cable
5	00001490	Cable tie
6	00007016	Cable tie holder
7	00326015	Screw M4x6 DIN 7984
8	00005110	Nut
9	00000709	Washer ø18/25
10	00665076	Lock ring
11	00665074	Cable guide assembly
12	00655104	Guide block
13	00665077	Wear strip
14	00665073	Crank assembly

Ref	Part no.	Description
15	00665075	Guide profile assembly
16	00005302	Magnet holder
17	00006267	Magnet
18	00005836	Screw M6x12 DIN 7984
19	00005120	Screw M6x45 DIN 7991
20	00006332	Screw M4x12 DIN 7991
21	00654011	Spring
22	00002930	Screw M8x30 DIN 912
23	00001490	Cable tie
24	00002269	Cable tie holder
25	00620017	Label (LBL-XE-007)
26	00005113	Deflection spring axle

4.4 Midsagittal plane laser

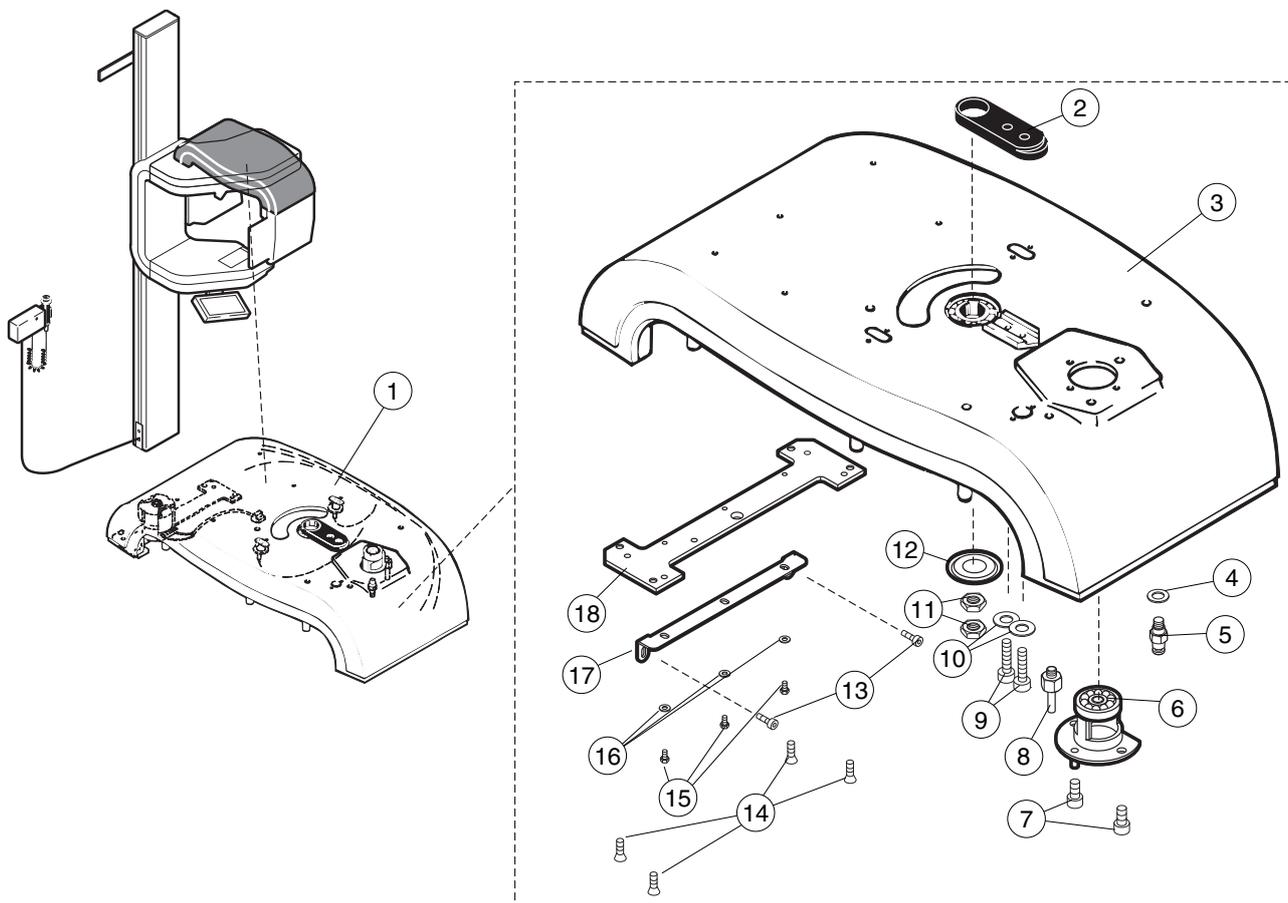


Ref	Part no.	Description
1	00665331	Midsagittal plane laser-complete
2	00671017	Mirror bracket
3	00005468	Lamp bracket
4	00002999	Washer $\varnothing 4.3/9$ DIN 125
5	00326027	Screw M5x6 DIN 7984
6	00007327	Screw M4x12 DIN 912
7	10010182	Sagittal laser cable
8	00620102	Laser caution label, USA (LBL-X-099)
9	00620103	Laser warning label, USA (LBL-X-100)

## 5 ROTATING UNIT

### 5.1 Rotating unit casting

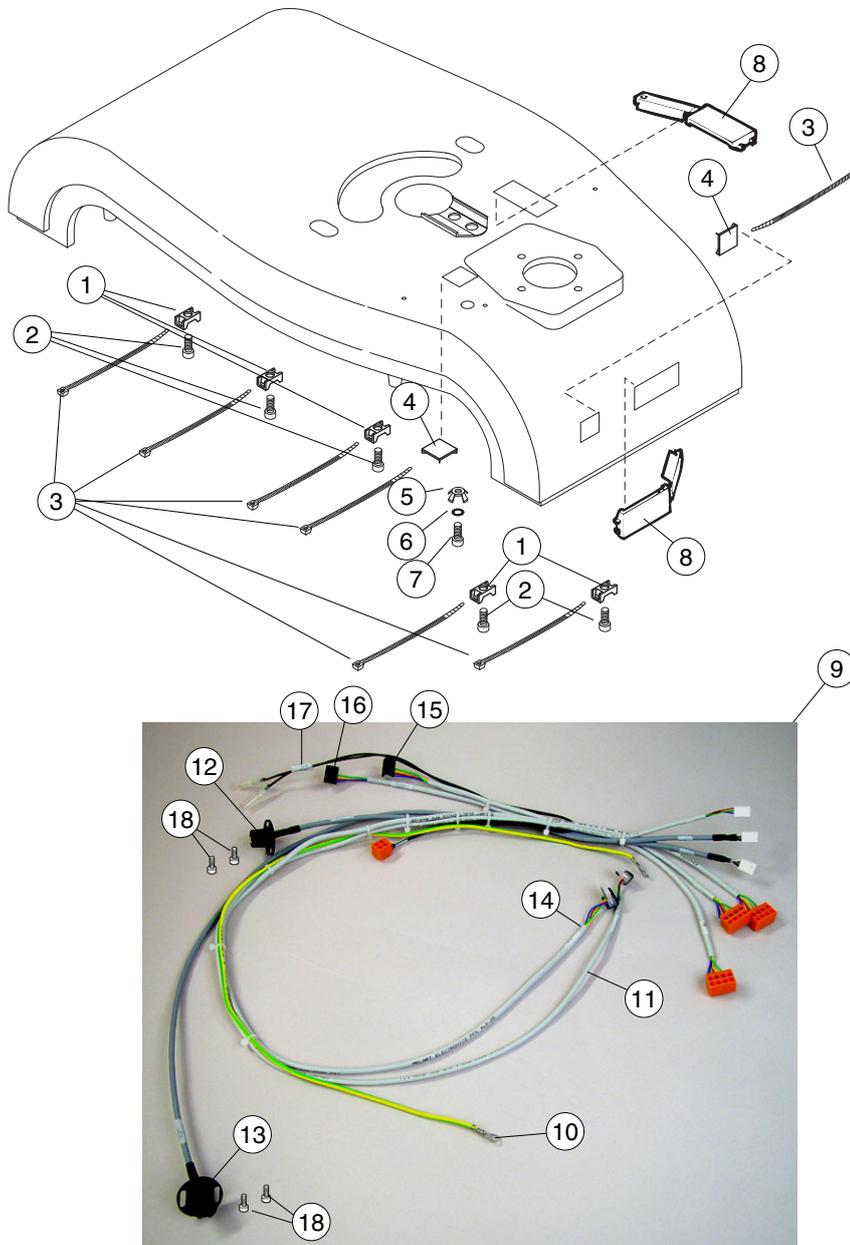
#### 5.1.1 Choke assembly



Ref	Part no.	Description
<b>1</b>	<b>00665005</b>	<b>Rotating unit casting complete Includes all parts shown in pages A-25...A-26</b>
2	00005176	Counterprofile
3	00655024	Casting
4	00000701	Washer ø8/14
5	00005186	Pin
<b>6</b>	<b>00665041</b>	<b>Guide bearing assembly</b>
7	00005836	Screw M6x12 DIN 7984
8	00005180	Motor pivot
9	00003095	Screw M8x20 DIN 912
10	00003003	Washer ø8.4/17 DIN125
11	00005110	Nut
12	00003585	Ring

Ref	Part no.	Description
13	00002922	Screw M4x8 DIN 912
14	00003322	Screw M6x12 DIN 7991
15	00003092	Screw M4x8 DIN 933
16	00002999	Washer ø4.3 DIN 125
17	00005199	Fixing spring
18	00005187	Fixing plate

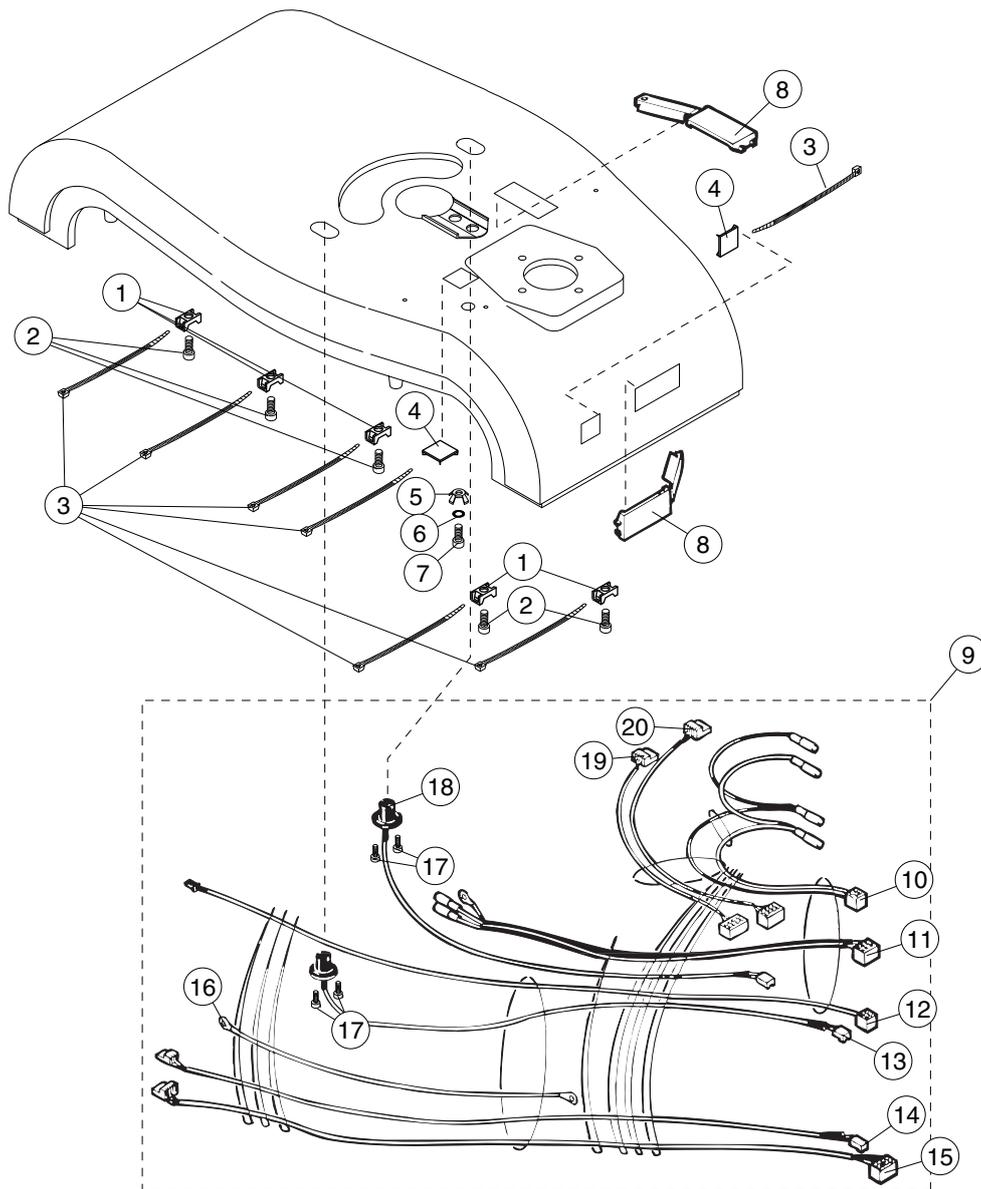
5.1.2 Rotating part cable harness, from ser. no XEC421512



Ref	Part no.	Description
1	00007016	Cable tie holder
2	00326230	Screw Ejoyt DG Wn 4x6
3	00001490	Cable tie
4	00002269	Cable anchor
5	00001559	Ground washer
6	00003244	Washer ø4.3 DIN 6798
7	00007327	Screw M4x12 DIN 912
8	00002299	Cable clamp
<b>9</b>	<b>10010190</b>	<b>Rotating part wire harness</b>
10	00050856	Tubehead grounding wire

Ref	Part no.	Description
11	10010206	Primary slot limit cable
12	00050851	Rotating motor end sensor
13	00050850	Rotating motor home sensor cable
14	10010205	Primary slot motor cable
15	10010204	Rotating motor cable
16	10010203	Cassette motor cable
17	10010184	Cephalostat cable
18	00326026	Screw M4x8 DIN 7984

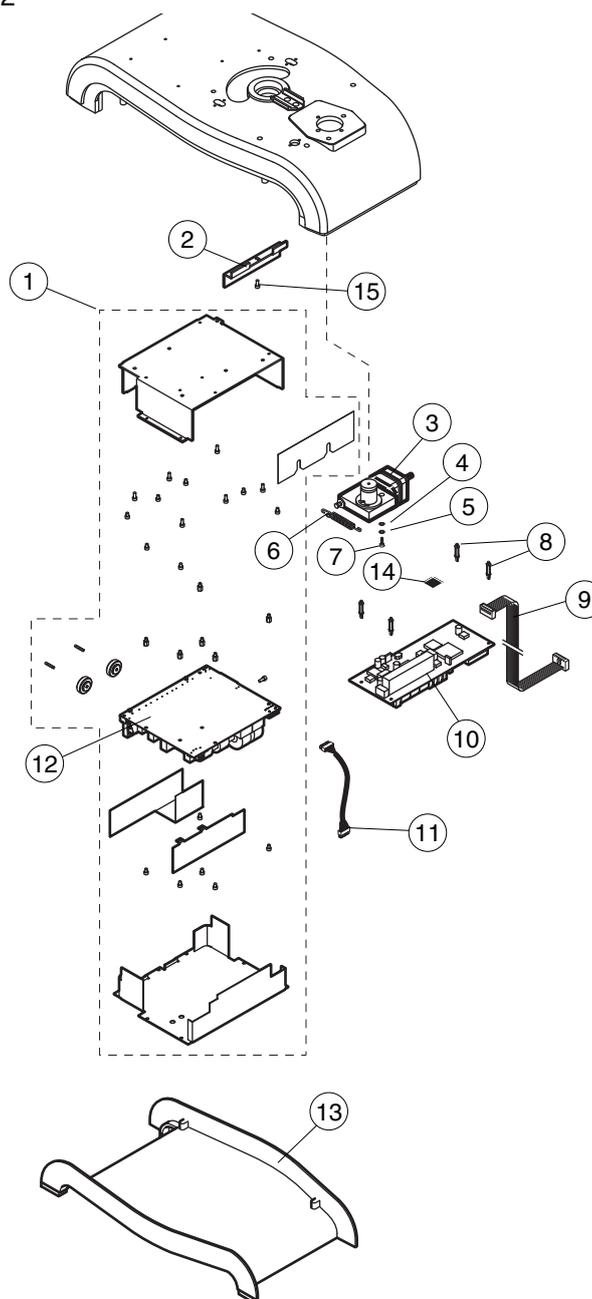
5.1.3 Rotating part cable harness, before ser. no XEC421512



Ref	Part no.	Description
1	00007016	Cable tie holder
2	00326230	Screw Ejot DG Wn 4x6
3	00001490	Cable tie
4	00002269	Cable anchor
5	00001559	Ground washer
6	00003244	Washer ø4.3 DIN 6798
7	00007327	Screw M4x12 DIN 912
8	00002299	Cable clamp
<b>9</b>	<b>00050860</b>	<b>Rotating part cable harness</b>
10	00050858	Cephalostat cable
11	00050837	Generator processor power cable
12	00050841	Fan cable
13	00050850	Rotating motor start sensor

Ref	Part no.	Description
14	00050845	Primary slot limit cable
15	00050844	Primary slot motor cable
16	00050856	Tubehead grounding wire
17	00326026	Screw M4x8 DIN 7984
18	00050851	Rotating motor end sensor
19	00050843	Rotating motor cable
20	00050842	Cassette motor cable

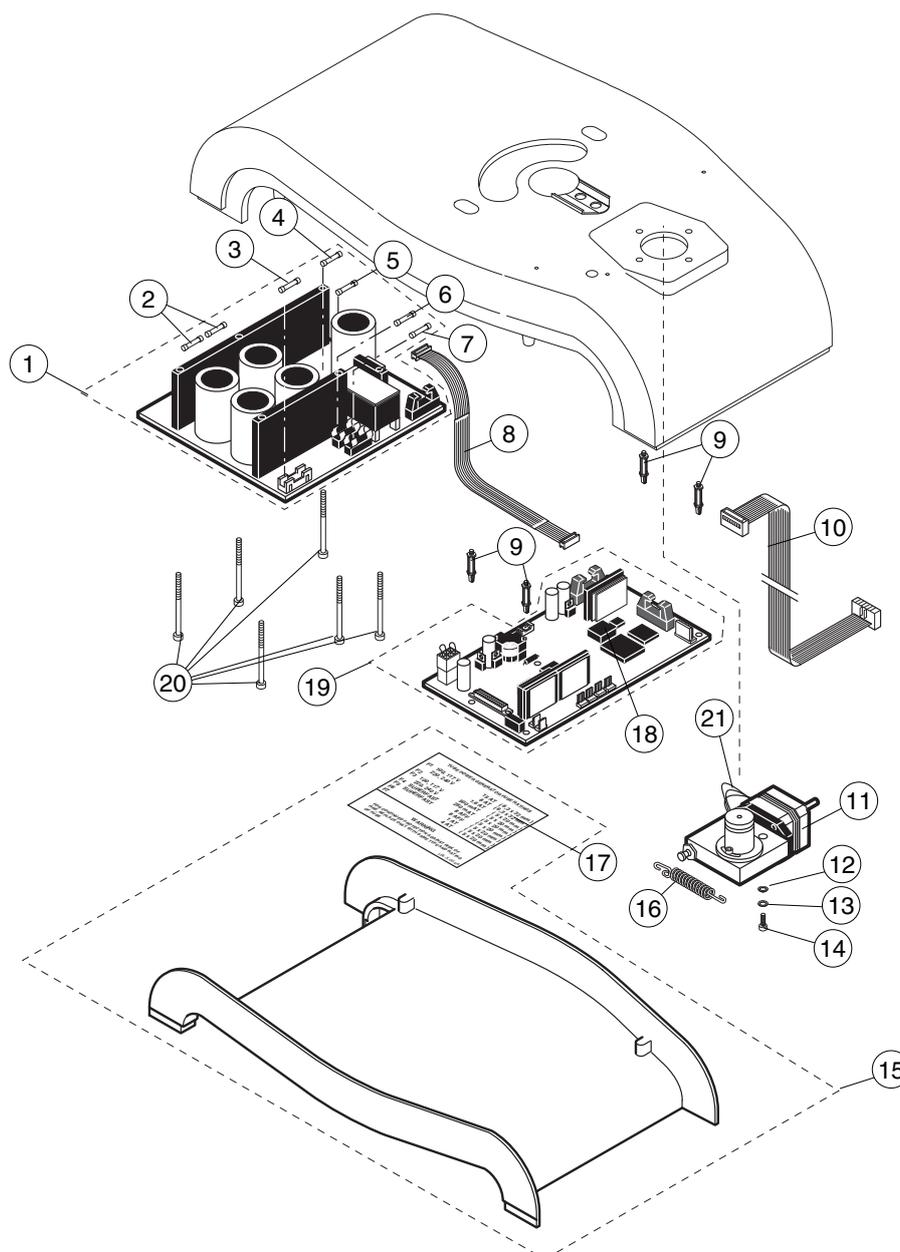
5.1.4 Pcb's, from ser. no XEC421512



Ref	Part no.	Description
1	10010516	PSU PCB housing assembly
2	10010323	Rotating unit cable holder
3	00665040	Rotation motor
4	00003057	Washer ø6.4/12 DIN 137
5	00003326	Washer ø4.3/12 DIN 9021
6	00005183	Spring
7	00006520	Screw M4x6 DIN 912
8	00006272	PCB holder
9	00050840	Cassette head flat-cable
10	10009814	Generator CPU PCB 105-10-28
11	10010187	PSU-GEN CPU cable
12	10009812	Proline PSU PCB 105-10-26
13A	00655023	Inner cover, up to ser. no REC409936

Ref	Part no.	Description
13B	10014646	Inner cover, from ser. no REC409937
14	10011479	Software PG, film, see "Software and PCB compatibility information"
15	00002922	Screw M4x8 DIN 912

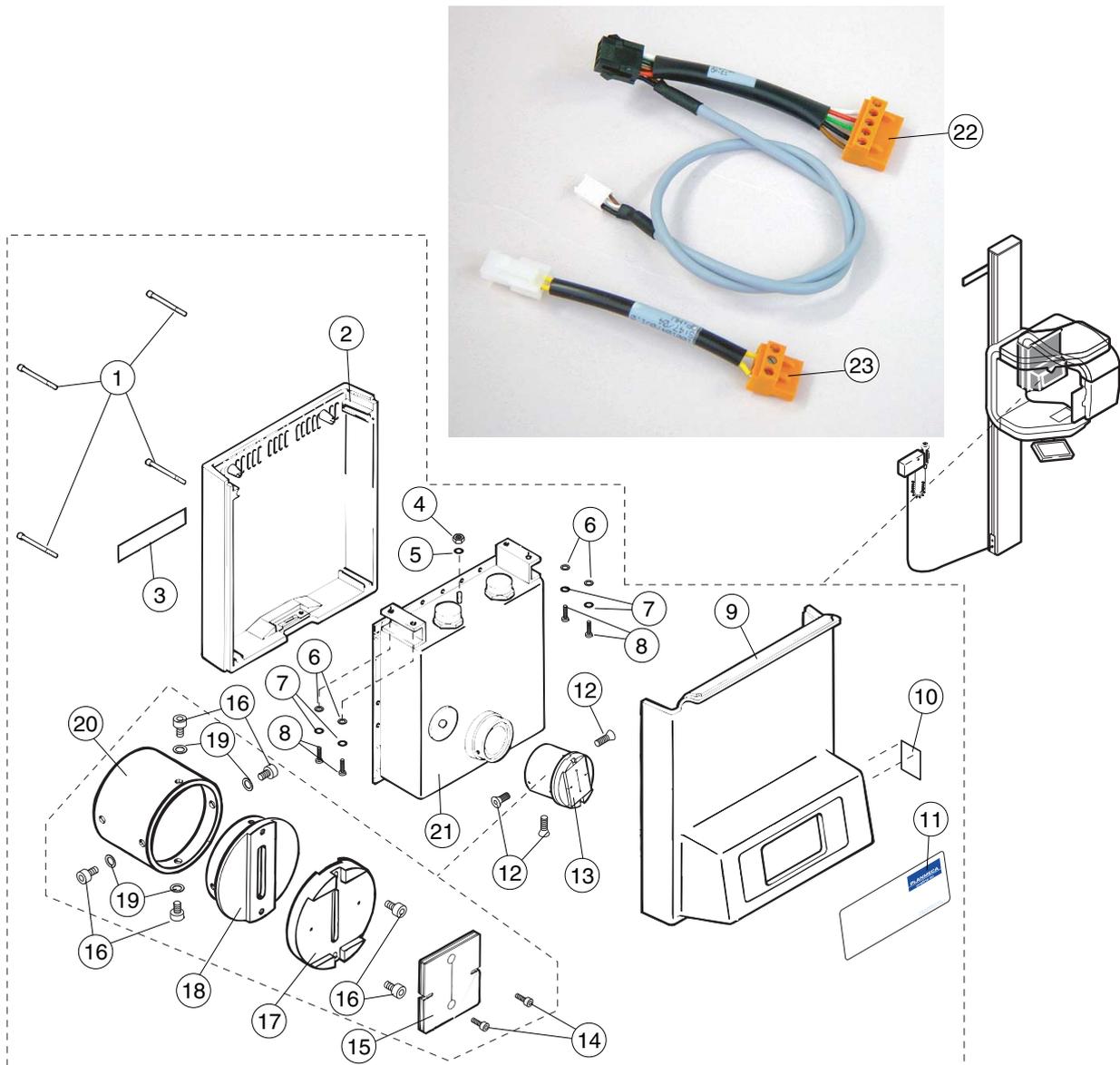
5.1.5 Pcb's, before ser. no XEC421512



Ref	Part no.	Description
1A	00665062	Tube power generator 220/240V~ 105-10-02
1B	00662051	Tube power generator 117V~ 105-10-02
1C	00665063	Tube power generator 100V~ 105-10-02
2	00005372	F4,F5 - Fuse 8AFF
3A	00001821	F1 - Fuse 8AT 220/240V~
3B	00006319	F1 - Fuse 15AT 100/117V~
4	00005371	F6 - Fuse 1AT
5	00000978	F7 - Fuse 4AT
6	00438057	F2 - Fuse 1.6A GMA
7A	00006317	F3 - Fuse 250mAT 220/240V~
7B	00006318	F3 - Fuse 500mAT 100/117V~
8	00050839	Generator flat-cable
9	00006272	PCB holder

Ref	Part no.	Description
10	00050840	Cassette head flat-cable
11	00665040	Rotation motor
12	00003057	Washer ø6.4/12 DIN 137
13	00003326	Washer ø4.3/12 DIN 9021
14	00006520	Screw M4x6 DIN 912
15A	00655023	Inner cover, up to ser. no REC409936
15B	10014646	Inner cover, from ser. no REC409937
16	00005183	Spring
17	00007509	Label (LBL-X-004A)
18	10012716	Software PG, film, see "Software and PCB compability information"
19	00665180	Generator processor 105-10-03
20	00326019	Screw M4x70 DIN 912
21	10000339	Step motor connection cable

## 6 TUBE HEAD

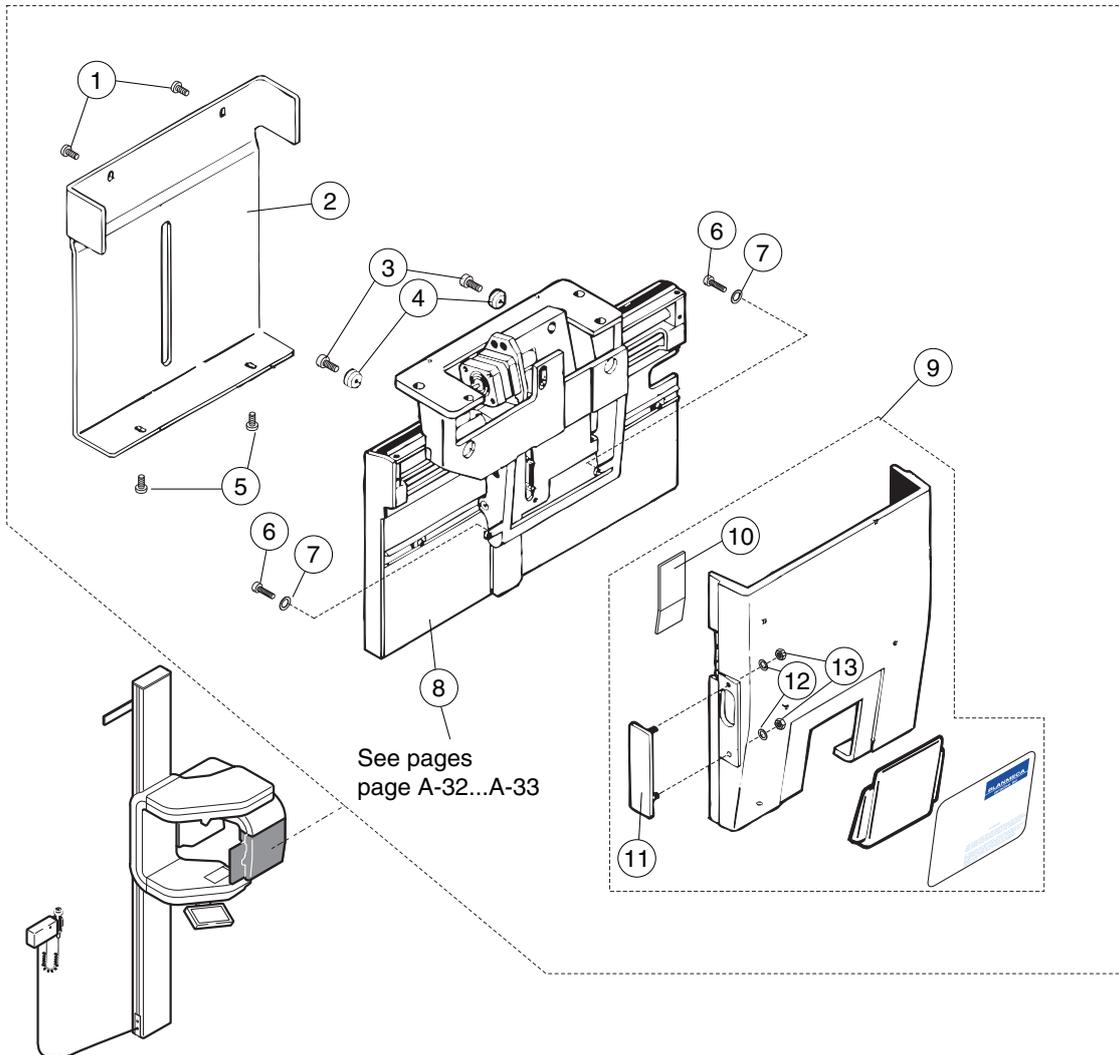


Ref	Part no.	Description
1	00326009	Screw M4x60 DIN 912
2A	00665044	Cover, up to ser. no REC409936
2B	10014647	Cover, from ser. no REC409937
3	00007510	Label (LBL-X-011)
4	00003162	Nut M6 DIN 934
5	00003246	Washer ø6 DIN 6798A
6	00327010	Washer ø5.3 DIN 127
7	00007146	Washer ø5.3 DIN 9021
8	00326033	Screw M5x12 DIN 912
9A	00671085	Cover, up to ser. no REC409936
9B	10014648	Cover, from ser. no REC409937
10	00620022	Label (LBL-X-048) (Germany only)
11	10007454	Label (LBL-D-004)
12	00326016	Screw M3x6 DIN 7991
13	00661050	<b>Collimator assembly</b>

Ref	Part no.	Description
14	00326110	Screw M3x6 DIN 912
15	00653039	Primary slot
16	00006520	Screw M4x6 DIN 912
17	00652080	Outer slot
18	00652081	Slot frame
19	00006426	Washer ø4/8x0.5 DIN 988
20	00652082	Housing of collimator tube
21A	10010327	Tube head from ser. no XEC421512
21B	10010517	Tube head TOSHIBA before ser. no XEC421512, includes cables 10010470 and 10010471
22	10010471	Adapter cable
23	10010470	Adapter cable

# 7 CASSETTE CARRIAGE

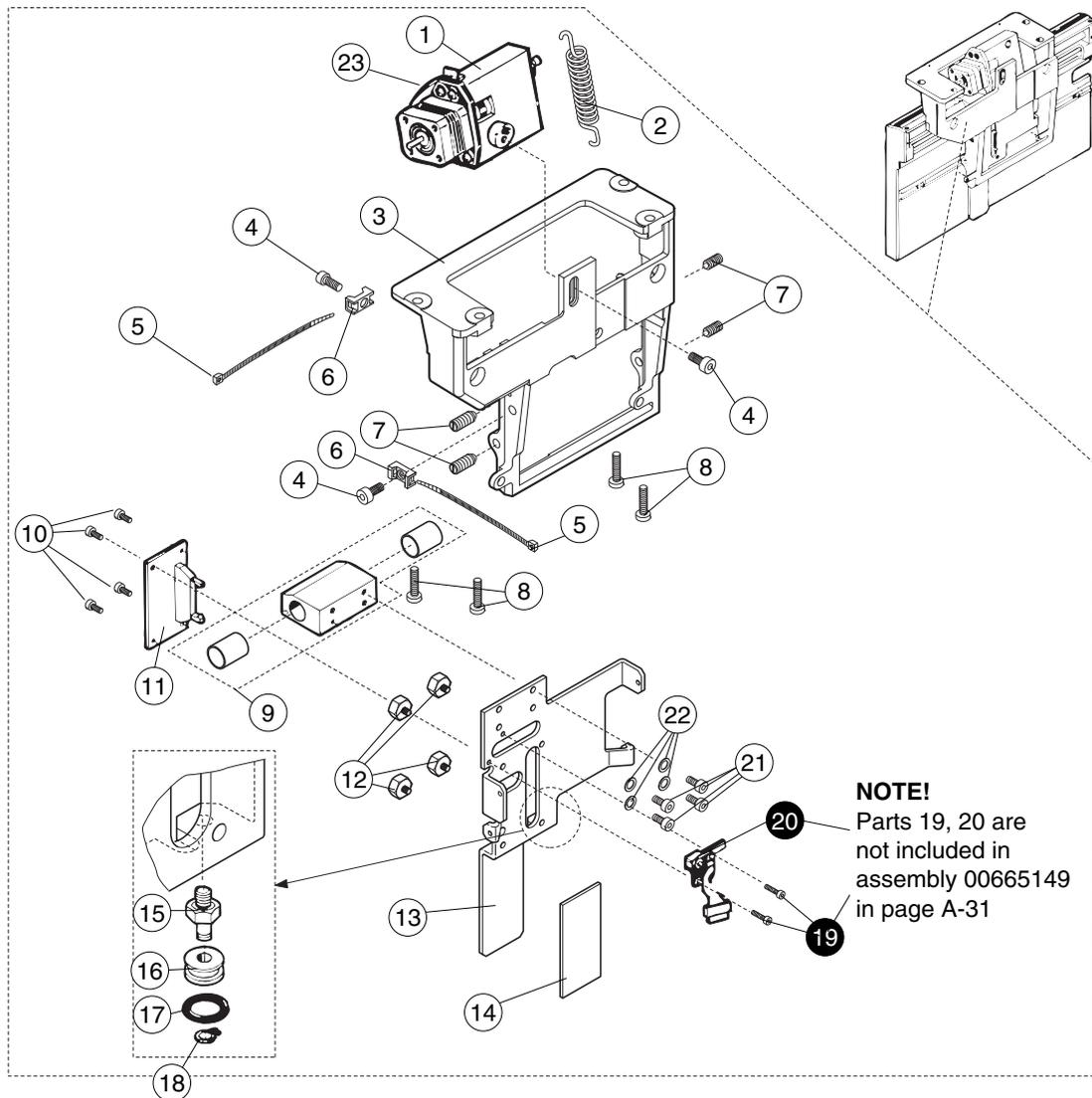
## 7.1 Covers



Ref	Part no.	Description
1	00326039	Screw M3x6 ULS
2	00655017	Cover
3	00003108	Screw M4x10 DIN 7984
4	00006023	Washer
5	00007472	Screw M2.9x6.5 DIN 7981
6	00006807	Screw M4x12 DIN 7984
7	00002999	Washer ø4.3/9 DIN 125
<b>8A</b>	<b>00665149</b>	<b>Cassette carriage complete, see pages A-32...A-33</b>

Ref	Part no.	Description
<b>8B</b>	<b>00665156</b>	<b>Cassette carriage complete, see pages A-32...A-33 -includes cassette (autoprnt, see page A-35)</b>
<b>9</b>	<b>00665152</b>	<b>Rear cassette cover complete</b>
10	00655059	Sheet lead
11	00655056	Plate, before ser. no XEC421512
12	00006359	Washer ø3.2/9 DIN 9021
13	00003159	Nut M3 DIN 934

7.2 Cassette driving mechanism

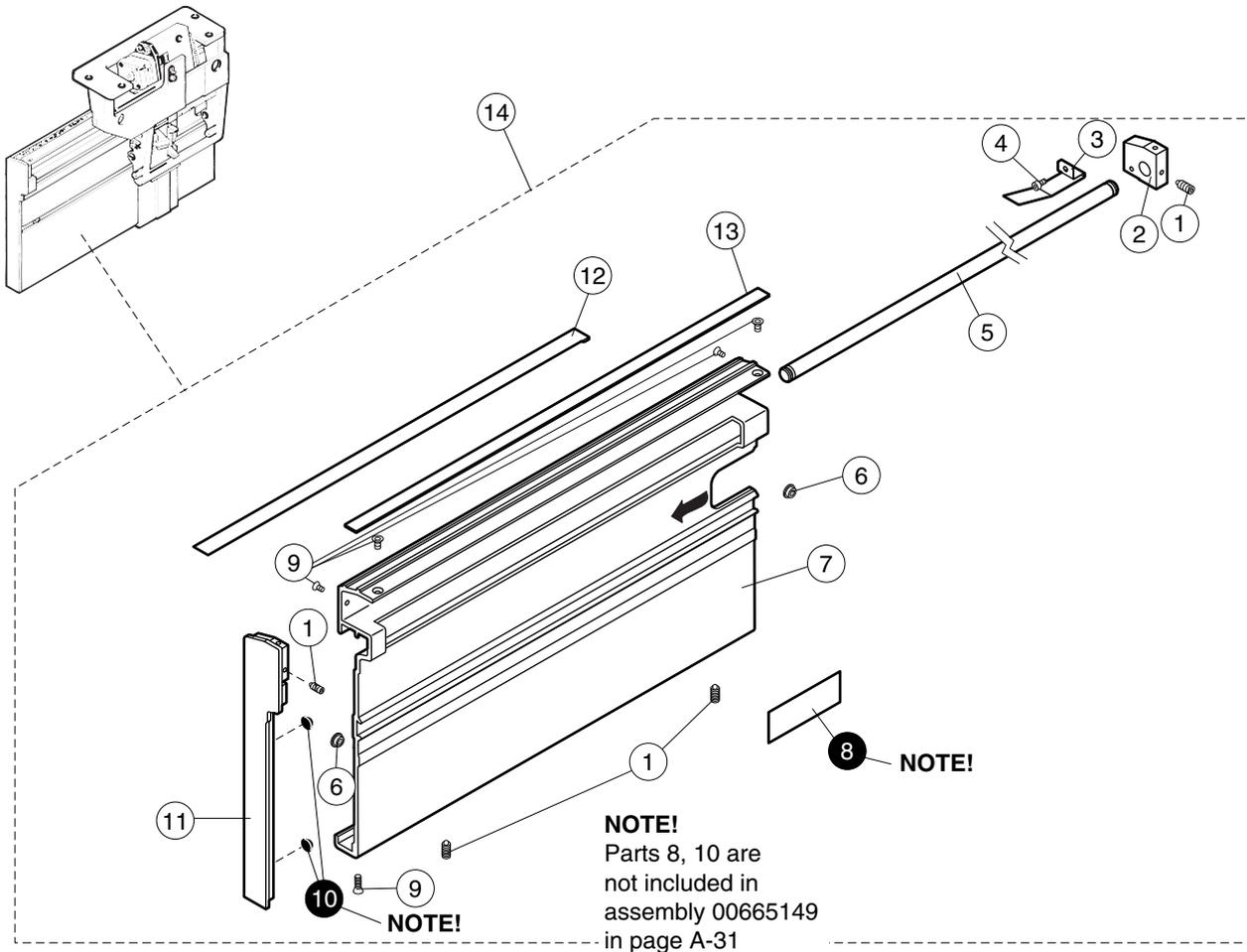


**NOTE!**  
Parts 19, 20 are not included in assembly 00665149 in page A-31

Ref	Part no.	Description
1	00665050	Cassette motor
2	00005288	Spring
3	00655105	Cassette holder frame
4	00326015	Screw M4x6 DIN 7984
5	00001490	Cable tie
6	00007016	Cable tie holder
7	00626008	Screw M8x12 DIN 914
8	00003297	Screw M6x12 DIN 7984
<b>9</b>	<b>10012516</b>	<b>Bearing block assembly</b>
10	00326018	Screw M3x6 DIN 912
11	00637020	EC Cassette limit PCB 105-10-04B20
12	00652347	Support screw
13	00653127	Inner slot

Ref	Part no.	Description
14	00006887	Sheet lead
15	00005267	Axle
16	00007201	Roller
17	00007171	O-ring ø7/3
18	00006005	Lock ring A4 DIN 471
19	00326018	Screw M3x6 DIN 912 (Autoprint only)
20	00661522	Labeling head (Autoprint only)
21	00004849	Screw M4x10 DIN 912
22	00327021	Washer ø4 DIN 127
23	10000339	Step motor connection cable

7.3 Cassette holder profile

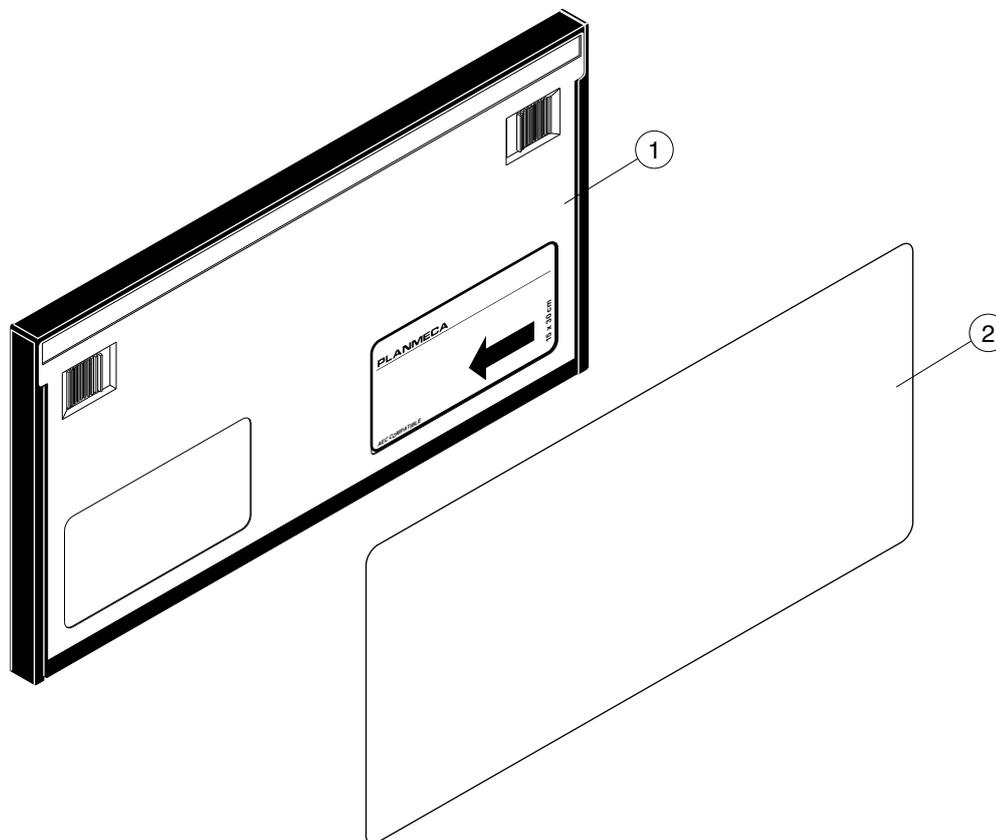


Ref	Part no.	Description
1	00003137	Screw M3x3 DIN 916
2	00005245	Axle block
3	00005247	Spring
4	00326018	Screw M3x6 DIN 912
5	00005249	Slide axle $\varnothing$ 10mm
6	00665027	Stop magnet
7	00005925	Cassette holder profile includes labels
8	00003485	Label (LBL-XA-002)(Autoprint only)
9	00326016	Screw M3x6 DIN 7991
10	00002189	Rubber pad (not autoprint)
11	00655060	End piece
12	00005250	Lower guide strip
13	00005682	Friction strip

Ref	Part no.	Description
14	00671077	Cassette holder profile complete

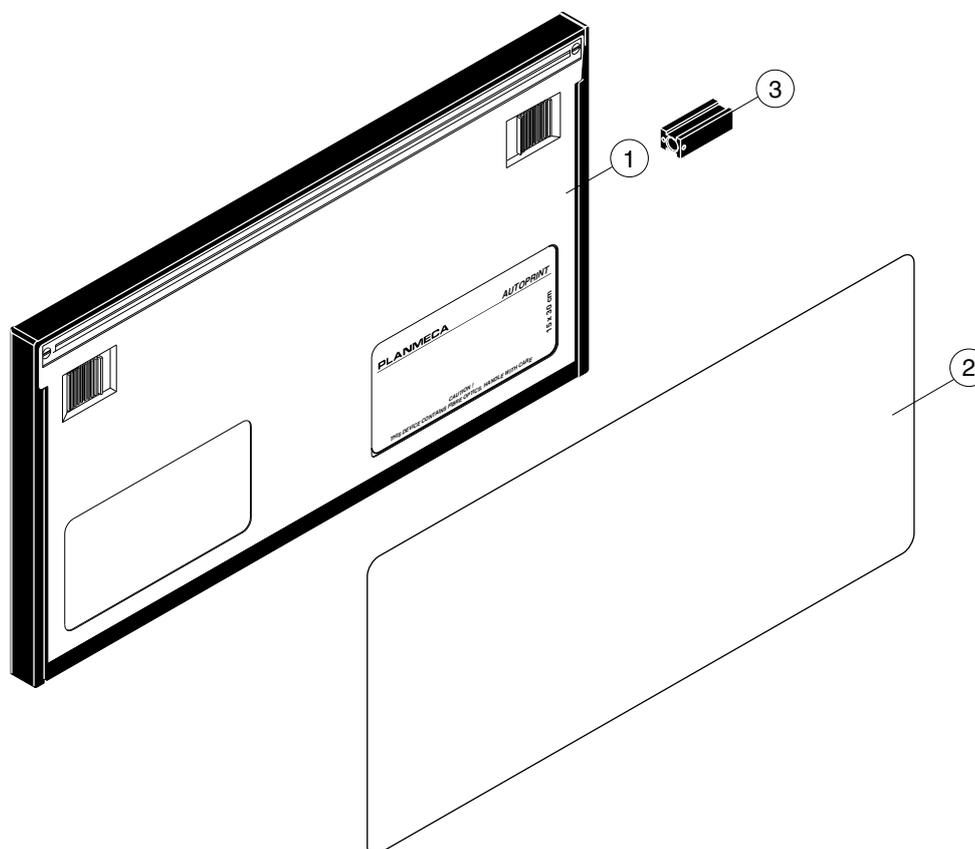
7.4 Cassettes

7.4.1 Regular panoramic cassette, 15x30



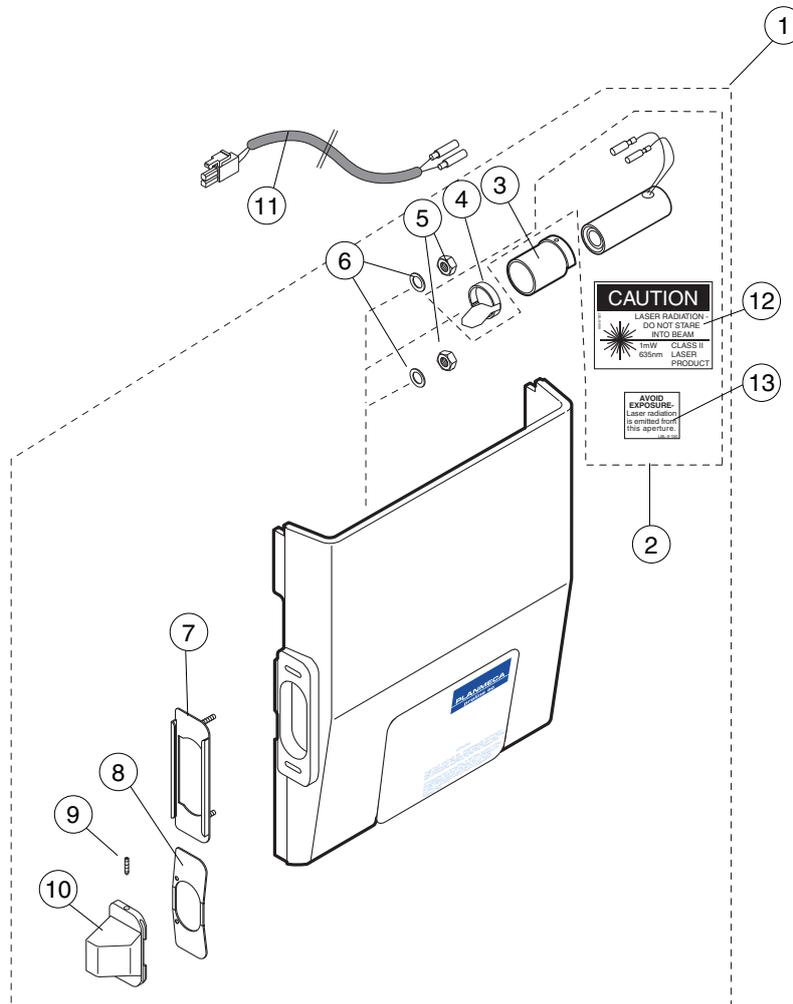
Ref	Part no.	Description
1	10001287	Cassette, Kodak Lanex Regular
2	10007201	Intesifying screen, Kodak Ektavision

7.4.2 Autoprint cassette, 15x30



Ref	Part no.	Description
1	10001288	Autoprint cassette, Kodak Lanex Regular
2	10007201	Intesifying screen, Kodak Ektavision
3	00665170	Printhead cover new cassette

7.5 Frankfort laser



Ref	Part no.	Description
1	00665405	Rear cassette cover complete
2	00665329	Frankfort laser complete
3	00652468	Bush
4	00671017	Mirror bracket
5	00003159	Nut M3 DIN 934
6	00006359	Washer ø3.2/9 DIN 9021
7	00653052	Fixing plate
8	00653051	Slide plate
9	00226002	Screw M3x12 DIN 916
10	00651001	Light hood
11A	10010183	Frankfort light cable from ser. no XEC421512
11B	00050838	Frankfort light cable
12	00620102	Laser caution label, USA (LBL-X-099)

Ref	Part no.	Description
13	00620103	Laser warning label, USA (LBL-X-100)

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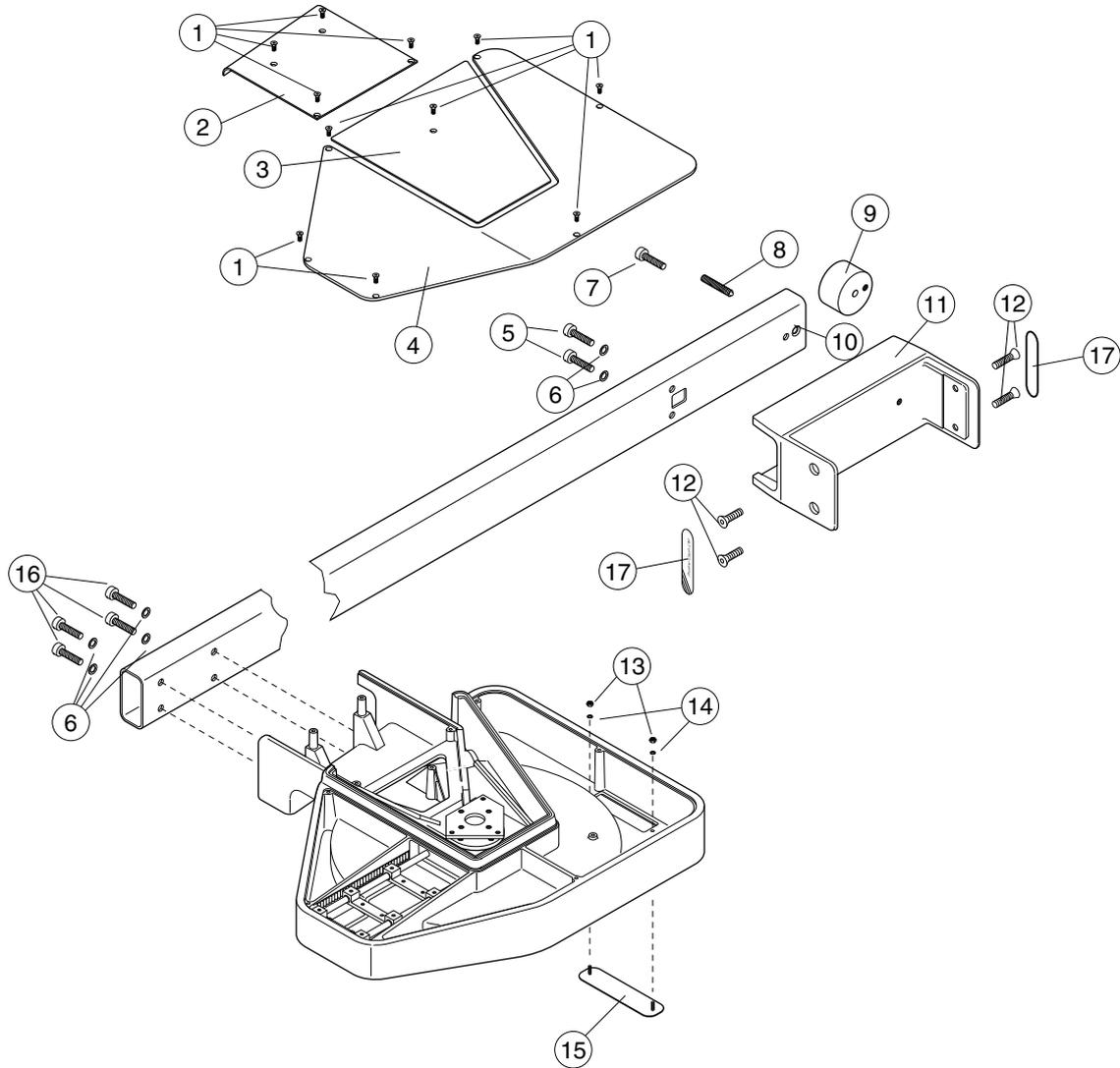
Chapter

**B**

# PLANMECA PROLINE EC PAN/ CEPH X-RAY

# 1 CEPHALOSTAT CM

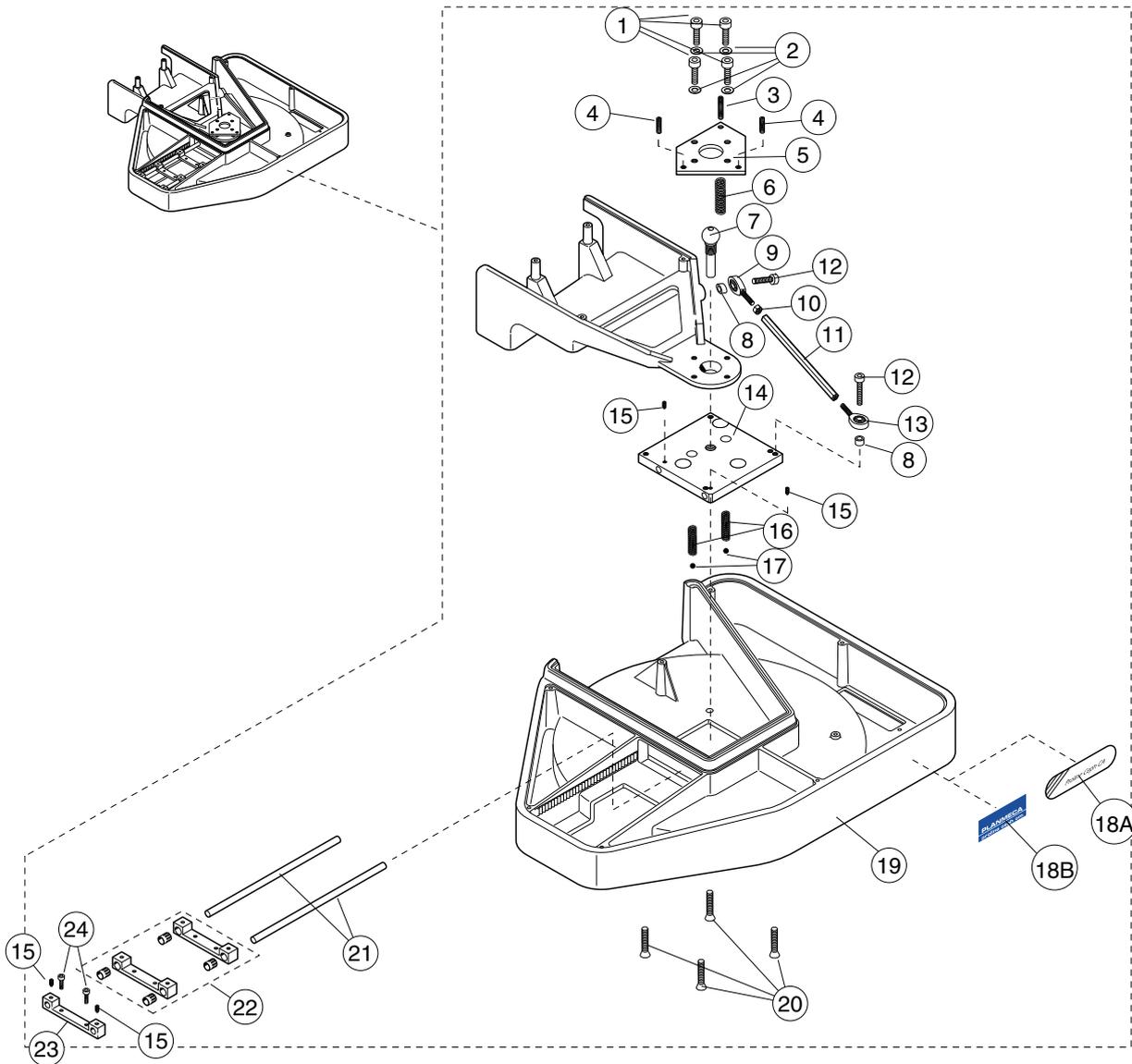
## 1.1 Arm and covers, CM



Ref.	Part no.	Description
1	00326040	Screw M4x8 ULS
2	00655076	Attachment casting cover
3	00655078	Attachment mechanism cover
4	00655077	Upper cover
5	00001814	Screw M8x12 DIN 912
6	00006742	Washer ø8 DIN127
7	00003099	Screw M8x40 DIN 912
8	00002592	Screw M8x40 DIN 916
9	00652344	Support piece
10	00655073	Cephalostat arm
11	00655072	Adapter
12	00006627	Screw M8x14 DIN 7991
13	00003159	Nut M3 DIN 934
14	00006359	Washer ø3 DIN 9021

Ref.	Part no.	Description
15	00655082	Cover plate
16	00003094	Screw M8x16 DIN 912
17A	00620048	Label LBL-X-076 Proline ceph CM
17B	10002655	Label LBL-X-111 blank

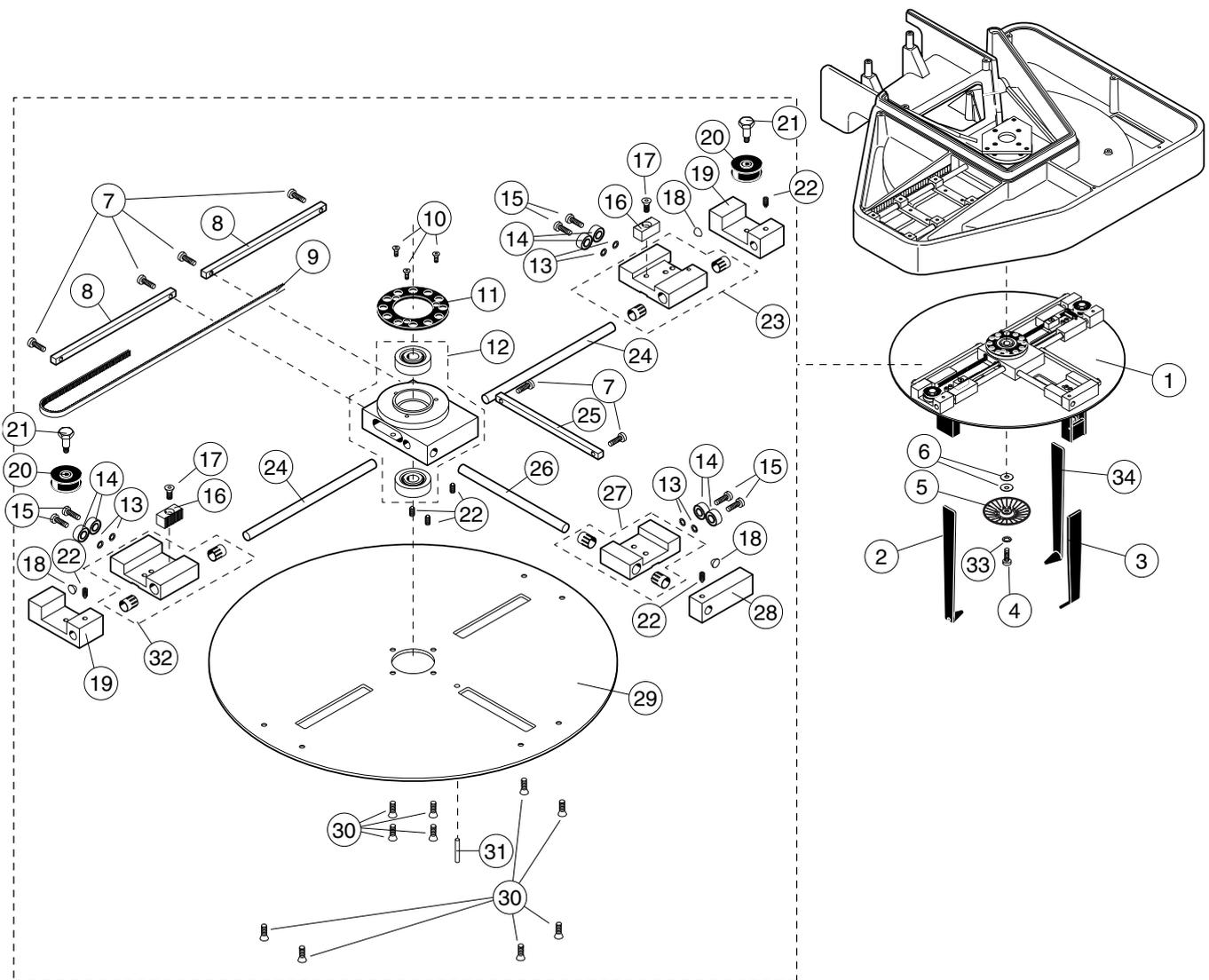
1.2 Casing and attachment mechanism



Ref.	Part no.	Description
1	00004878	Screw M6x16 DIN 912
2	00003001	Washer ø6 DIN 125
3	00326124	Screw M6x30 DIN 913
4	00006645	Screw M6x20 DIN 913
5	00653108	Flange
6	00654022	Spring
7	00652192	Axle
8	00652336	Spacer
9	00622014	Joint axle JAM 6
10	00003162	Nut M6 DIN 934
11	00652335	Alignment bar
12	00003182	Screw M6x25 DIN 912
13	00622015	Joint axle JAML 6
14	00652193	Fixing plate

Ref.	Part no.	Description
15	00003138	Screw M4x4 DIN 916
16	00654021	Spring
17	00622001	Bearing ball ø8
18A	00620048	Label LBL-X-076 Proline ceph CM
18B	10007458	Label-D-008 Planmeca ceph CM
19	00657006	Casing
20	00007086	Screw M6x16 DIN 7991
21	00652218	Cassette holder support rod
22	00665139	Inner support bar
23	00652217	Outer support bar
24	00004849	Screw M4x10 DIN 912

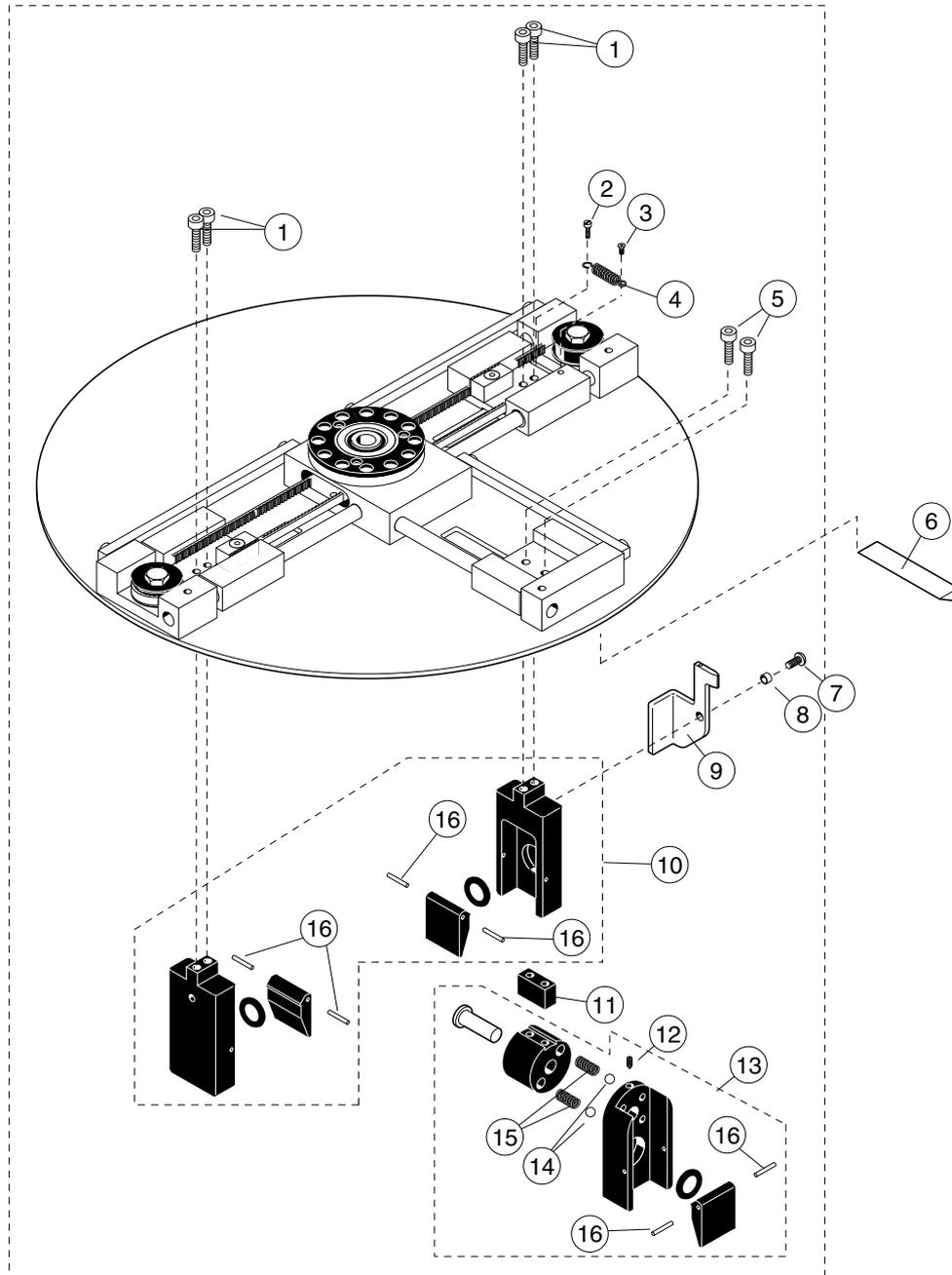
1.3 Head support assembly (pages B-4 and B-5)



Ref.	Part no.	Description
1	00665136	<b>Head support assembly (see page B-5)</b>
2	00651003	Ear post, right (ring)
3	00651004	Nasial positioner
4	00004878	Screw M6x16 DIN 912
5	00652191	Rotation scale
6	00007237	Washer ø6/18x0.5 DIN 2093
7	00004849	Screw M4x10 DIN 912
8	00652201	Rod
9	00650518	Cogged belt
10	00326016	Screw M3x6 DIN 7991
11	00653197	Deal frame
12	00665131	<b>Centre assembly</b>
13	00006426	Washer ø4/8x0.5 DIN 988
14	00005702	Ball bearing NSK 62422
15	00003108	Screw M4x10 DIN 7984
16	00652208	Belt fastener
17	00003324	Screw M4x16 DIN 7991

18	00124001	Rubber pad
19	00652199	Ear post outer bracket
20	00652206	Belt roller
21	00652207	Belt roller axle
22	00003138	Screw M4x4 DIN 916
23	00671061	<b>Ear post inner bracket assy, left</b>
24	00652200	Ear post axle
25	00652211	Nasial positioner rod
26	00652210	Nasial positioner axle
27	00671062	Nasial positioner inner bracket
28	00652209	Nasial positioner outer bracket
29	00655075	Cover
30	00003660	Screw M4x8 DIN 7991
31	00622008	Needle roll
32	00671060	<b>Ear post inner bracket assy, right</b>
33	00007612	Washer ø6 DIN 6798
34	00651005	Ear post, left (ball)

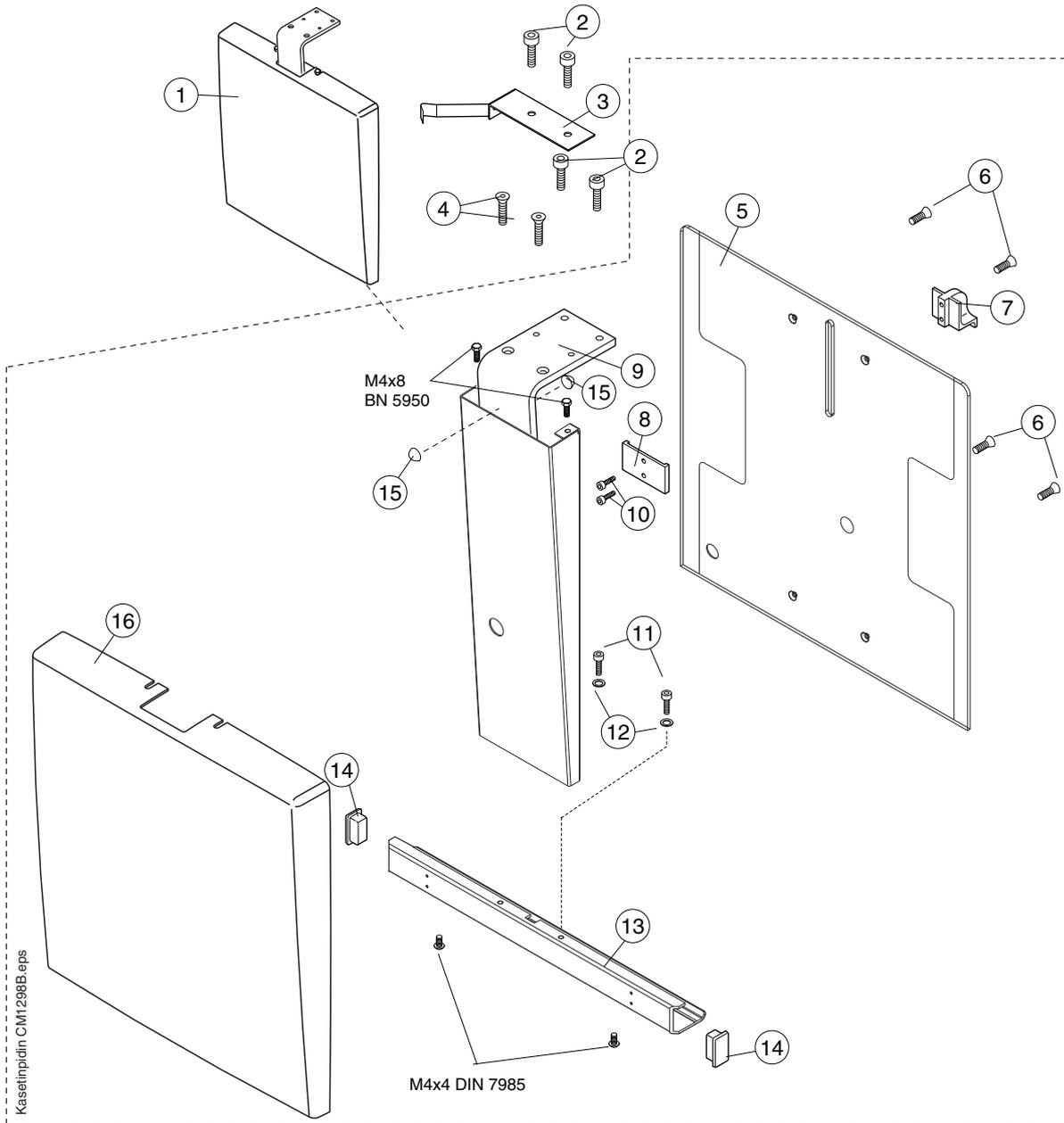
1.4 Ear post holder assemblies and nasal positioner holder assembly



Ref.	Part no.	Description
1	00004849	Screw M4x10 DIN 912
2	00002778	Screw M2x6 DIN 84
3	00002057	Screw M3x8 DIN 965
4	00654019	Spring
5	00626001	Screw M4x25 DIN 7984
6	00655092	Soft tissue filter scale, CM
7	00326121	Screw M4x6 ULS
8	00652220	Spacer
9	00653221	Lever plate
<b>10</b>	<b>00665137</b>	<b>Ear post holder assembly</b>
11	00652214	Extension piece
12	00002060	Screw M4x8 DIN 916
<b>13</b>	<b>00665138</b>	<b>Nasial positioner holder assembly</b>

Ref.	Part no.	Description
14	00001516	Bearing ball ø6
15	00654020	Spring
16	00622000	Needle roll

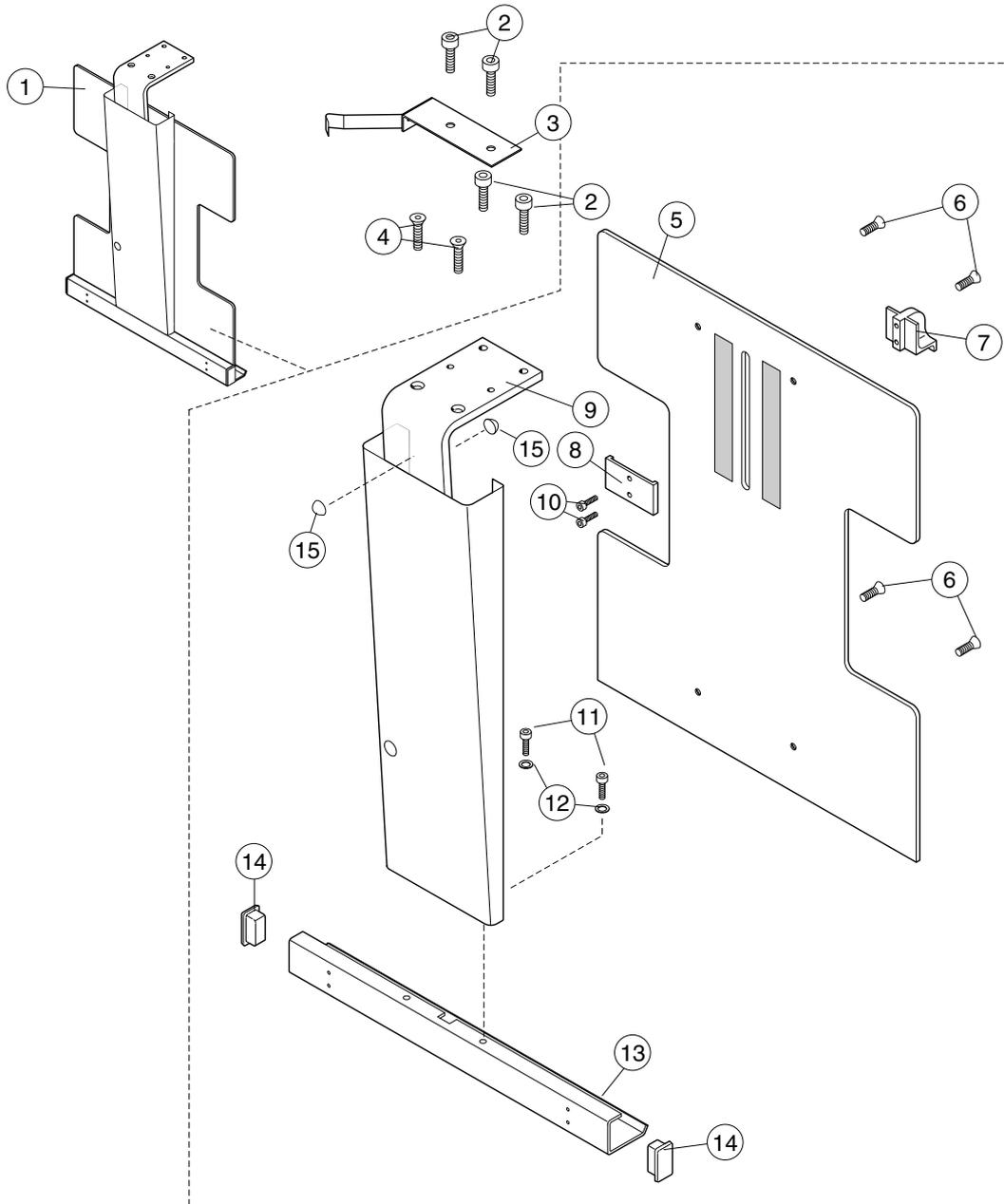
1.5 Cassette holder, CM new ceph.



Ref.	Part no.	Description
1A	00665185	Cassette holder 8"x10" CM
1B	00665187	Cassette holder 18cm x 24cm CM
2	00003108	Screw M4x10 DIN 7984
3	00665144	Spring plate
4	00326005	Screw M4x10 DIN 7991
5A	00655163	Plate 8"x10" CM
5B	00655164	Plate 18cm x 24cm CM
6	00003660	Screw M4x8 Zn DIN 7991
7	00652224	Cassette clip
8	00652225	Cassette holder plastic spring
9	00655158	Bracket
10	00326018	Screw M3x6 Zn DIN 912
11	00004849	Screw M4x10 Zn DIN 912
12	00002999	Washer ø4.3 Zn DIN 125

Ref.	Part no.	Description
13A	00653217	Support strip 8"x10" CM
13B	00653218	Support strip 18cm x 24cm CM
14	00650519	Cassette stop
15	00124001	Rubber pad
16A	00665182	Ceph-cover 8"x10" CM
16B	00665184	Ceph-cover 18cm x 24cm CM

1.6 Cassette holder, CM

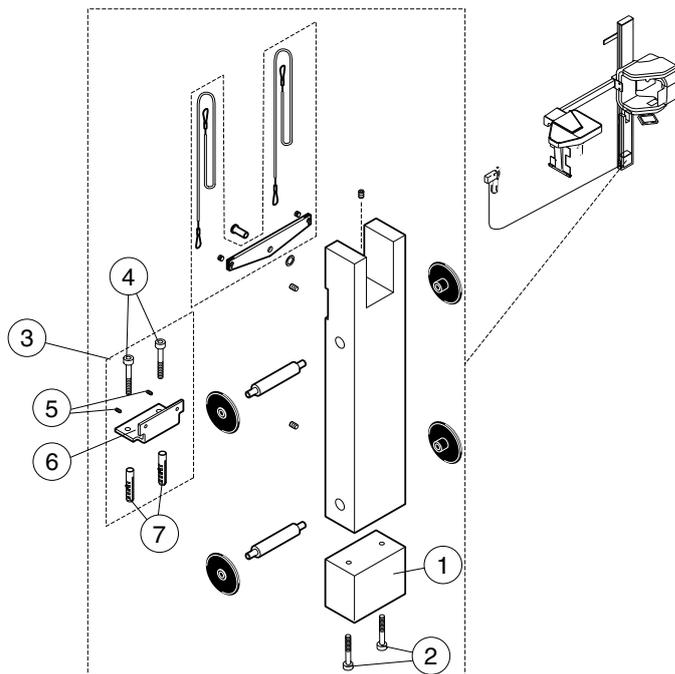


Ref.	Part no.	Description
1A	00665135	Cassette holder 8"x10" CM
1B	00665133	Cassette holder 18cm x 24cm CM
2	00003108	Screw M4x10 DIN 7984
3	00665144	Spring plate
4	00326005	Screw M4x10 DIN 7991
5A	00671070	Plate 8"x10" CM
5B	00671069	Plate 18cm x 24cm CM
6	00003660	Screw M4x8 Zn DIN 7991
7	00652224	Cassette clip
8	00652225	Cassette holder plastic spring
9	00655079	Bracket
10	00326018	Screw M3x6 Zn DIN 912
11	00004849	Screw M4x10 Zn DIN 912

Ref.	Part no.	Description
12	00002999	Washer ø4.3 Zn DIN 125
13A	00655085	Support strip 8"x10" CM
13B	00655086	Support strip 18cm x 24cm CM
14	00650519	Cassette stop
15	00124001	Rubber pad

## 2 PARTS TO PANORAMIC UNIT WITH CEPHALOSTAT

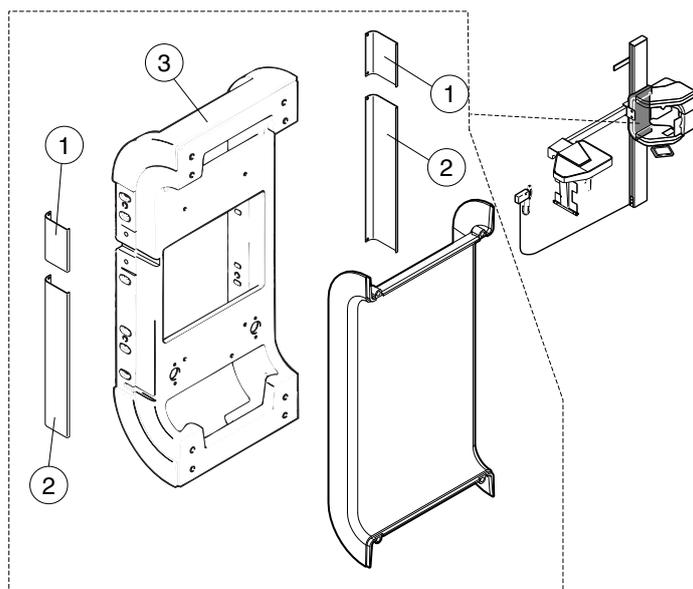
### 2.1 Column



Ref.	Part no.	Description
1	00006882	Ceph counterweight
2	00326022	Screw M8x55 DIN 7984
3	<b>00671058</b>	<b>Lower bracket assembly</b>
4	00003097	Screw M8x55 DIN 912 Zn

Ref.	Part no.	Description
5	00003141	Screw M6x6 DIN 916
6	00007498	Lower bracket
7	00327039	Expansion anchors

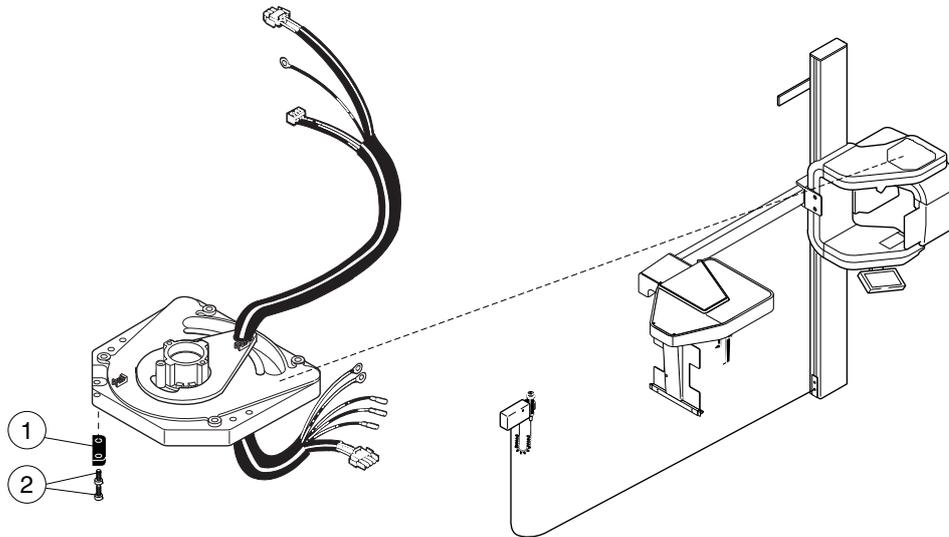
### 2.2 Z-carriage



Ref.	Part no.	Description
1	00655080	Cover strip
2	00655081	Cover strip

Ref.	Part no.	Description
3	00655025	Z-carriage frame

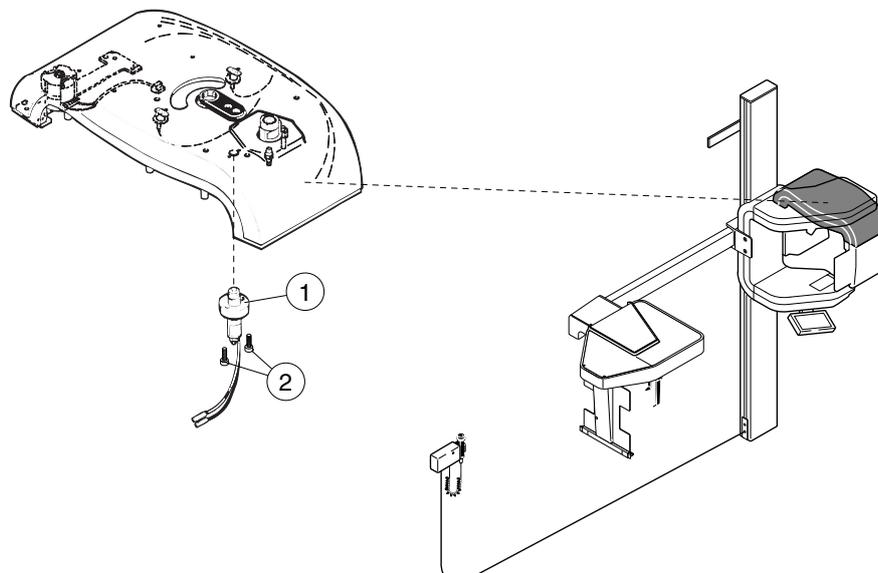
## 2.3 Upper shelf



Ref.	Part no.	Description
1	00006858	Solenoid latch

Ref.	Part no.	Description
2	00002922	Screw M4x8 DIN 912

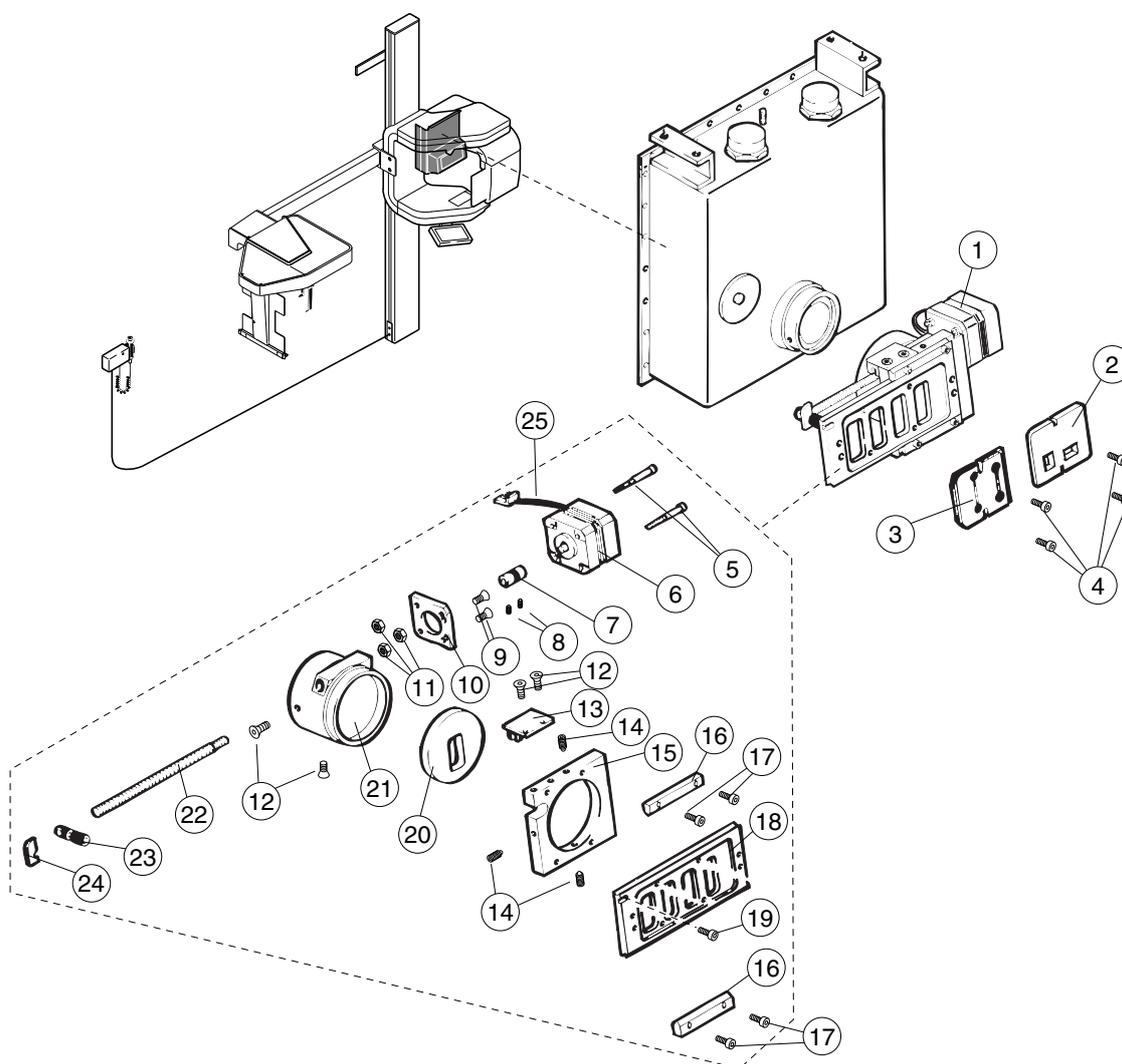
## 2.4 Rotating unit



Ref.	Part no.	Description
1A	10010185	Locking solenoid assembly from ser. no XEC421512

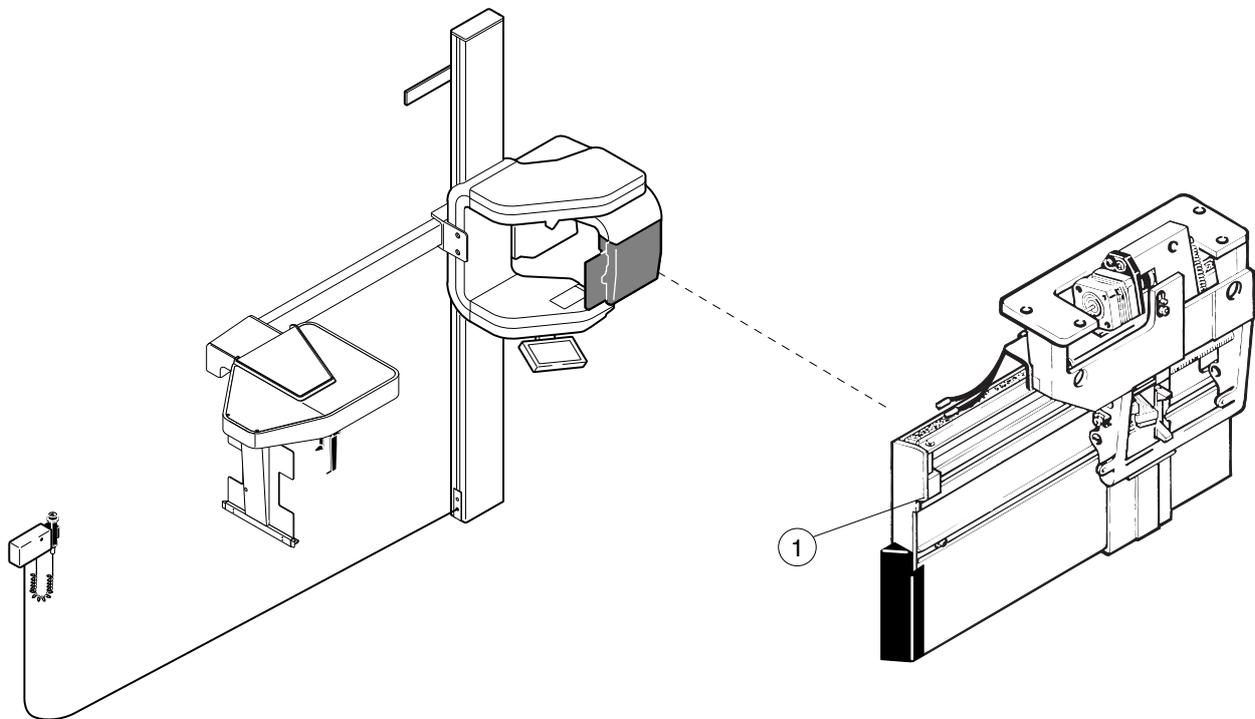
Ref.	Part no.	Description
1B	00665190	Locking solenoid assembly
2	00002922	Screw M4x8 DIN 912

## 2.5 Tube head



Ref.	Part no.	Description	Ref.	Part no.	Description
<b>1</b>	<b>00665006</b>	<b>Collimator assembly</b>	13	00050735	Primary position detector 105-10-08
2A	00007023	Ceph. primary aperture 18cm x 24cm	14	00006590	Screw M3x6 DIN 916
2B	00007459	Ceph. primary aperture 8"x10"	15	00005160	Collimator flange
3	00006834	Ceph. primary slot	16	00003451	Guide
4	00326018	Screw M3x6 DIN 912	17	00326036	Screw M3x10 DIN 912
5	00326043	Screw M3x30 DIN 912	18	00005158	Primary slot carriage
6	00665024	Primary slot motor	19	00326026	Screw M4x8 DIN 7984
7	00003370	Coupling	20	00005862	Outer limiting slot
8	00003391	Screw M3x4 DIN 916	21	00050631	Collimator housing
9	00326005	Screw M4x10 DIN 7991	22	00005156	Draw screw
10	00005166	Motor mounting bracket	23	00005167	Draw nut
11	00003159	Nut M3 DIN 934	24	00005169	Metal tab
12	00326016	Screw M3x6 DIN 7991	25	10000339	Step motor connection cable

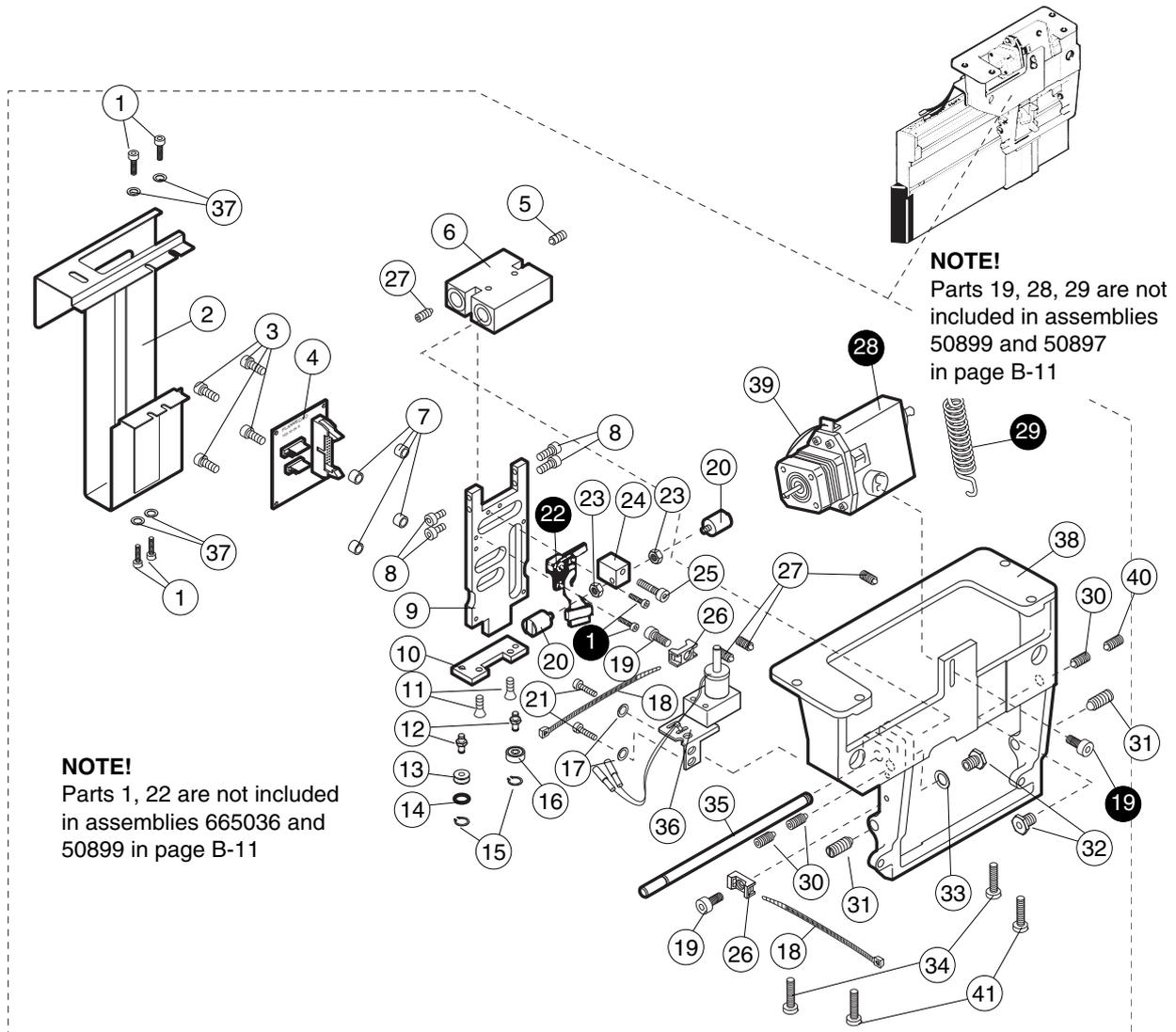
## 2.6 Cassette carriage



Ref.	Part no.	Description
1A	00665036	Cephalometric cassette carriage complete see pages B-12...B-13
1B	00050899	Cephalometric cassette carriage complete - without motor see pages B-12...B-13
1C	00665038	Cephalometric cassette carriage complete see pages B-12...B-13 - includes cassette (autoprint, see page A-35)

Ref.	Part no.	Description
1D	00050897	Cephalometric cassette carriage complete see pages B-12...B-13 - without motor - includes cassette (autoprint, see page A-35)

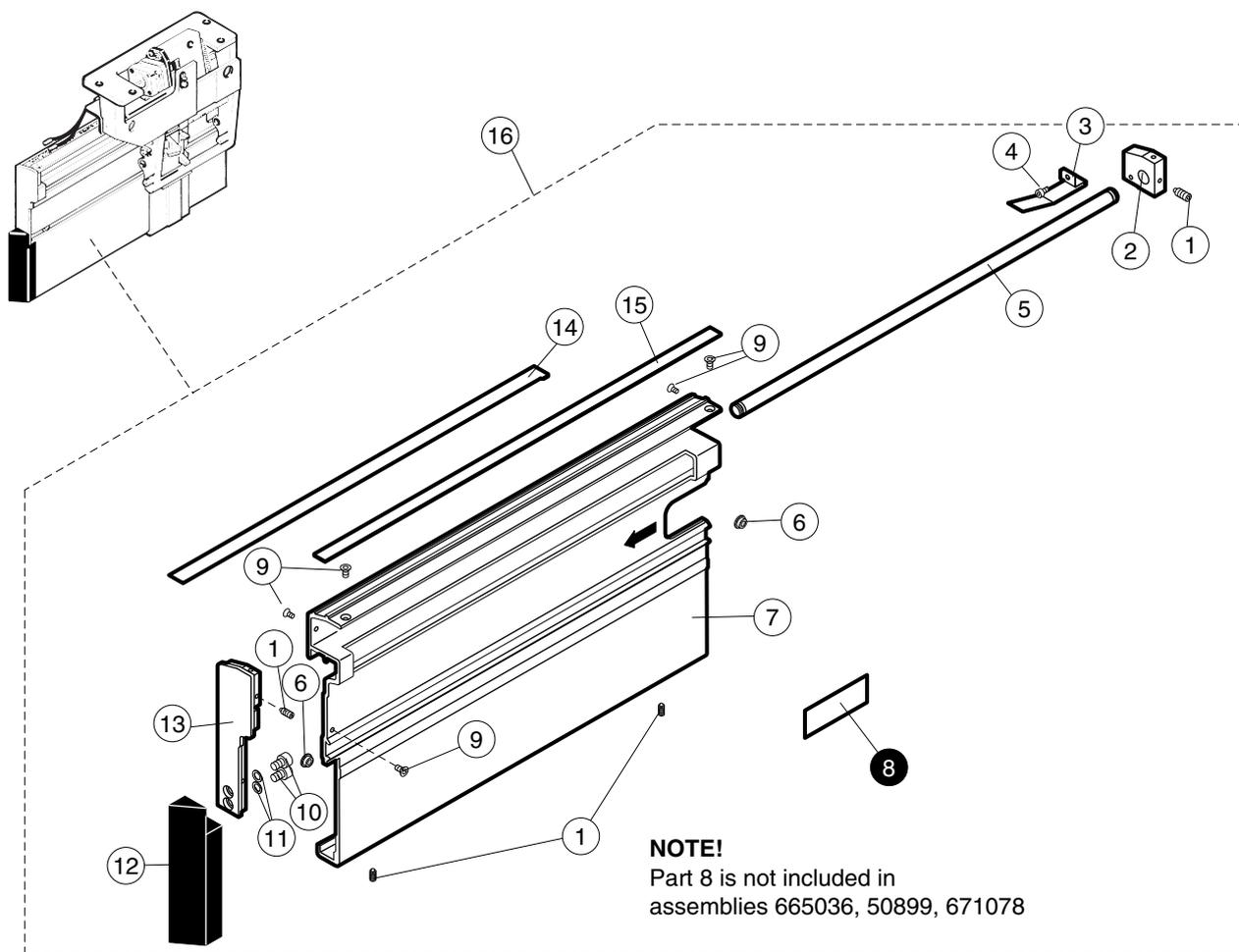
## 2.6.1 Cassette driving mechanism



Ref.	Part no.	Description
1	00326018	Screw M3x6 DIN 912
2	00007226	Inner secondary slot
3	00326036	Screw M3x10 DIN 912
4	00050715	Cassette limits PCB 105-10-04
5	00006634	Screw M4x10 DIN 913
6	<b>00671087</b>	<b>Bearing block assy ø10mm</b>
7	00002221	Spacer
8	00006335	Screw M4x16 DIN 7984
9	00005263	Slide frame
10	00005265	Plate
11	00003660	Screw M4x8 DIN 7991
12	00005267	Pin
13	00007201	Roller
14	00007171	O-ring
15	00006005	Circlip ø4 DIN 471
16	00005702	Bearing
17	00002999	Washer ø4.3/9 DIN 125
18	00001490	Cable tie
19	00326015	Screw M4x6 DIN 7984
20	00007353	Positioning magnet C12-00 (ceph)
21	00004849	Screw M4x10 DIN 912

Ref.	Part no.	Description
22	00661522	Labeling head (Autoprint only)
23	00002400	Nut M4 DIN 934
24	00007370	Block
25	00626001	Screw M4x25 DIN 7984
26	00007016	Base
27	00003143	Screw M4x6 DIN 916
28	00665050	Cassette motor
29	00005288	Spring
30	00003132	Screw M5x8 DIN 915
31	00665026	Stop magnet
32	00007371	Positioning screw holder (ceph)
33	00003003	Washer ø8.4/17 DIN 125
34	00003297	Screw M6x12 DIN 7984
35	00005269	Axle
36	<b>10004223</b>	<b>M224c-24V-solenoid assembly (ceph)</b>
37	00327034	Washer ø3 DIN 125
38	00655105	Cassette holder frame
39	10000339	Step motor connection cable
40	00005069	Screw M5x5 DIN 916
41	00003297	Screw M6x20 DIN 7984

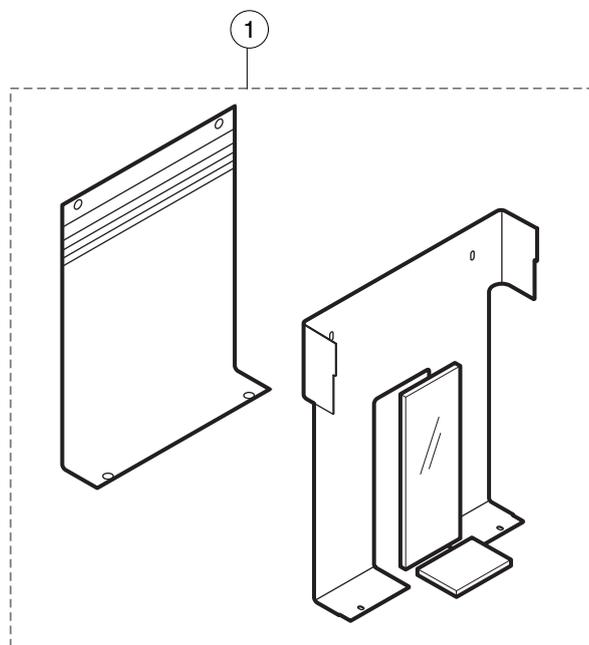
2.6.2 Cassette holder profile



Ref.	Part no.	Description
1	00003137	Screw M3x3 DIN 916
2	00005245	Axle block
3	00005247	Spring
4	00326018	Screw M3x6 DIN 912
5	00005249	Slide axle ø10mm
6	00665027	Stop magnet
7	00007059	Cassette holder profile
8	00003485	Label (LBL-XA-002)(Autoprint only)
9	00326016	Screw M3x6 DIN 7991
10	00326015	Screw M4x6 DIN 7984
11	00002999	Washer ø4.3/9 DIN 125
12	00007002	Soft tissue piece
13	00007058	Short end piece

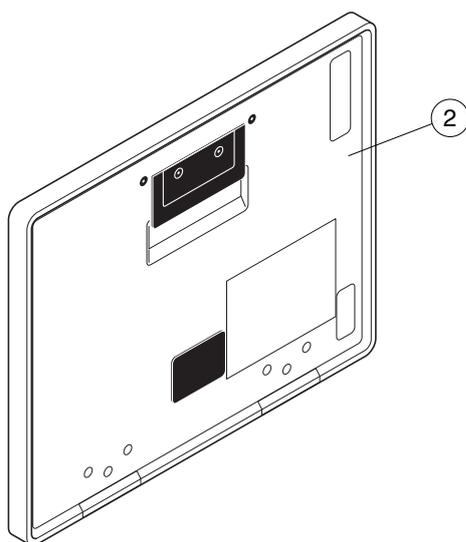
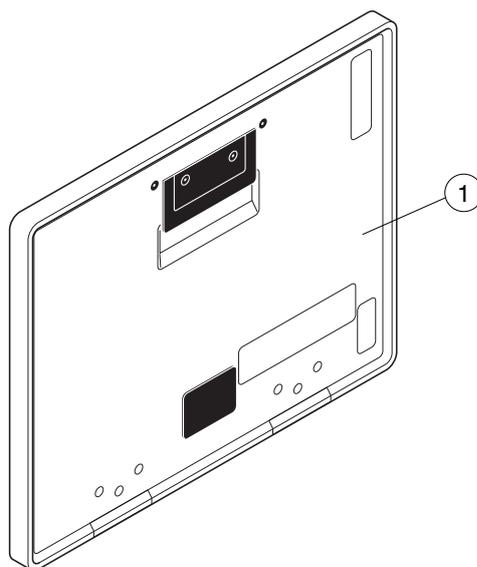
Ref.	Part no.	Description
14	00005250	Lower guide strip
15	00005682	Friction strip
16	00671078	Cassette holder profile complete

## 2.6.3 Cassette carriage cover assembly



Ref.	Part no.	Description
1	00665142	Cover assembly

## 2.6.4 Cassettes



Ref.	Part no.	Description
1	10005805	Cassette, XMT Leadless LX Reg C2 (18x24)
2	10005806	Cassette, XMT Leadless LX Reg C2 (8"x10")



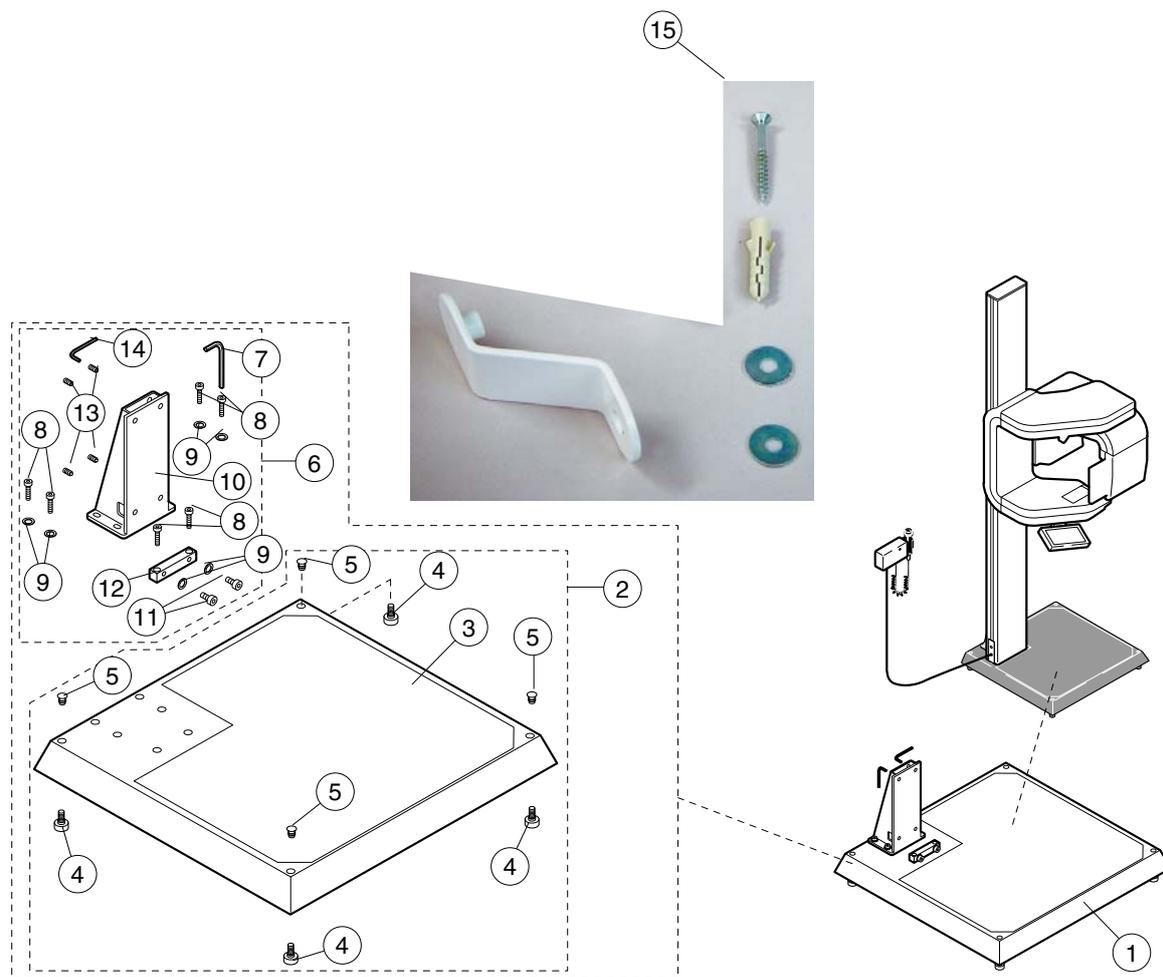
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Chapter

**C**

# OPTIONAL FEATURES

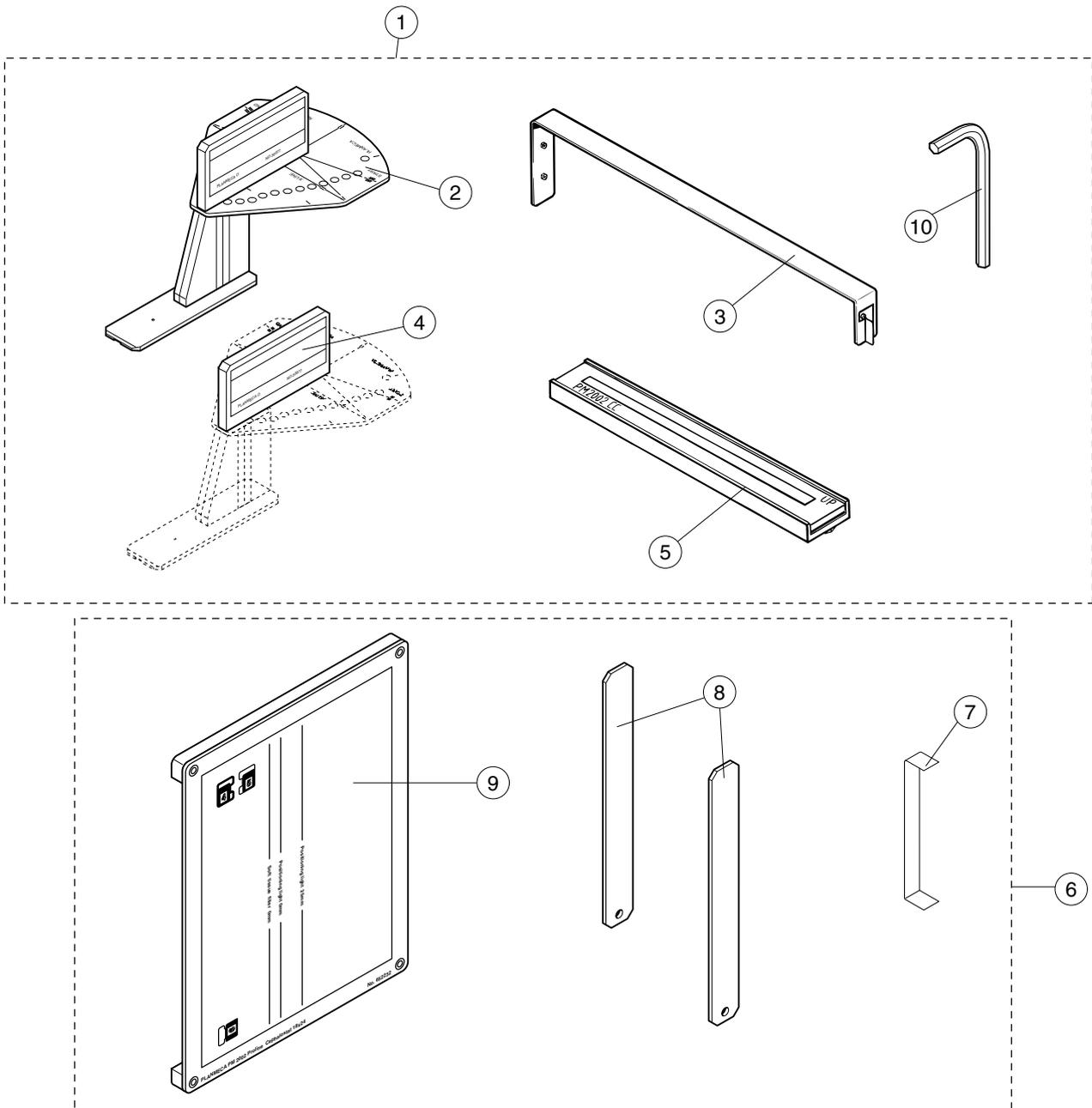
1 EXHIBITION FREE STANDING BASE



Ref	Part no.	Description
1	00050021	Free standing base complete
2	00067105	Base plate + levelling feet
3	00671014	Base plate
4	00671013	Levelling foot
5	00004631	Cover plug
6	00671026	Support bracket assembly
7	00002254	Allen key
8	00002930	Screw M8x30 DIN 912
9	00003003	Washer ø8.4/17 DIN 125
10	00006972	Support plug
11	00003094	Screw M8x16 DIN 912
12	00007000	Column holder
13	00003141	Screw M6x6 DIN 916
14	00002252	Allen key

Ref	Part no.	Description
15	10010518	Exhibition base additional support set

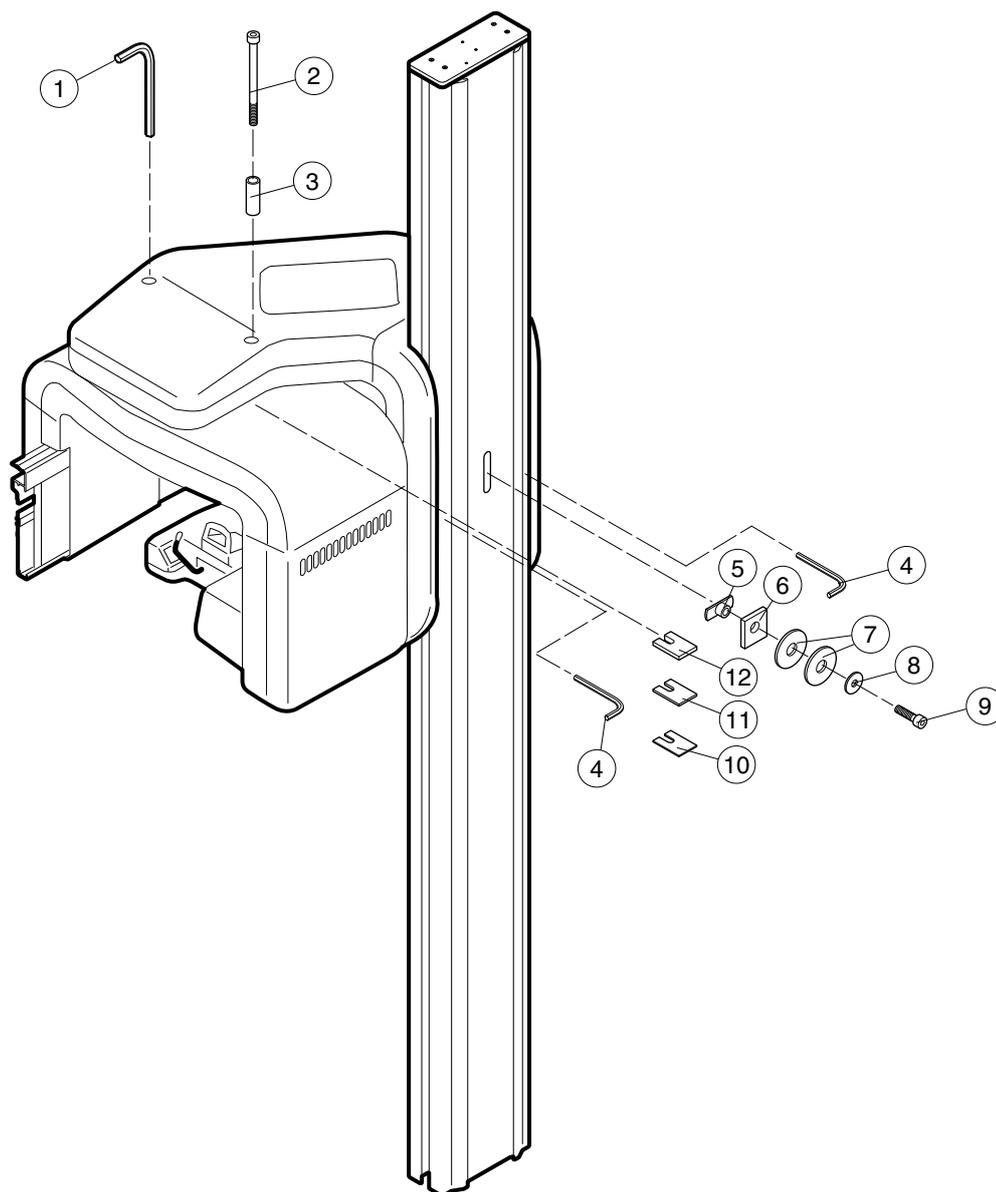
2 CALIBRATION TOOLS



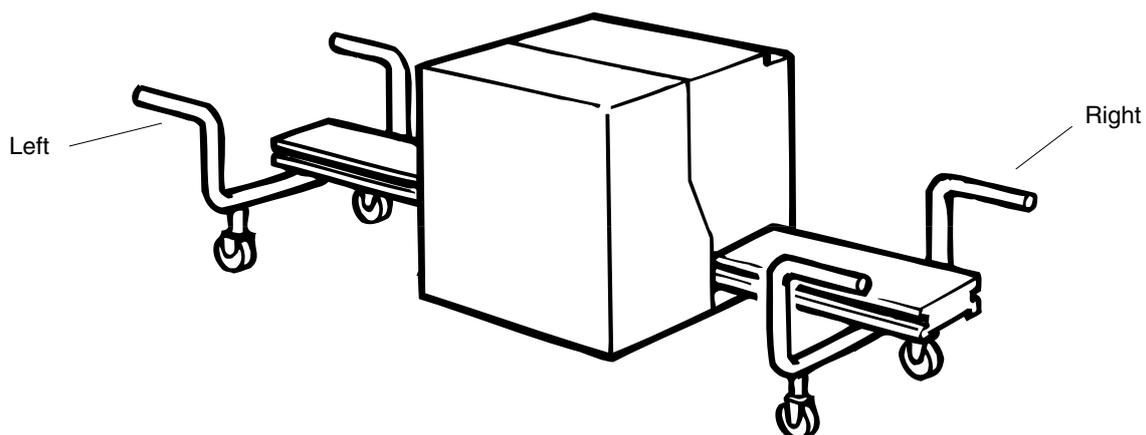
Ref	Part no.	Description
1	00050970	<b>Panoramic calibration tool set</b>
2	00050971	Ball phantom
3	00050973	Alignment ruler
4	00050977	Frankfurt plane alignment tool
5	00050972	Beam alignment tool
6A	00671063	<b>Ceph calibration tool set (18cm x 24cm)</b>
6B	00671064	<b>Ceph calibration tool set (8"x10")</b>
7	00671081	Soft tissue filter positioning tool
8	00653126	Ceph head support alignment tool
9A	00652232	Cephalometric beam alignment tool, 18cm x 24cm
9B	00652233	Cephalometric beam alignment tool, 8"x10"

Ref	Part no.	Description
10	00007100	Transportation pin

3 TRANSPORTATION ACCESSORIES



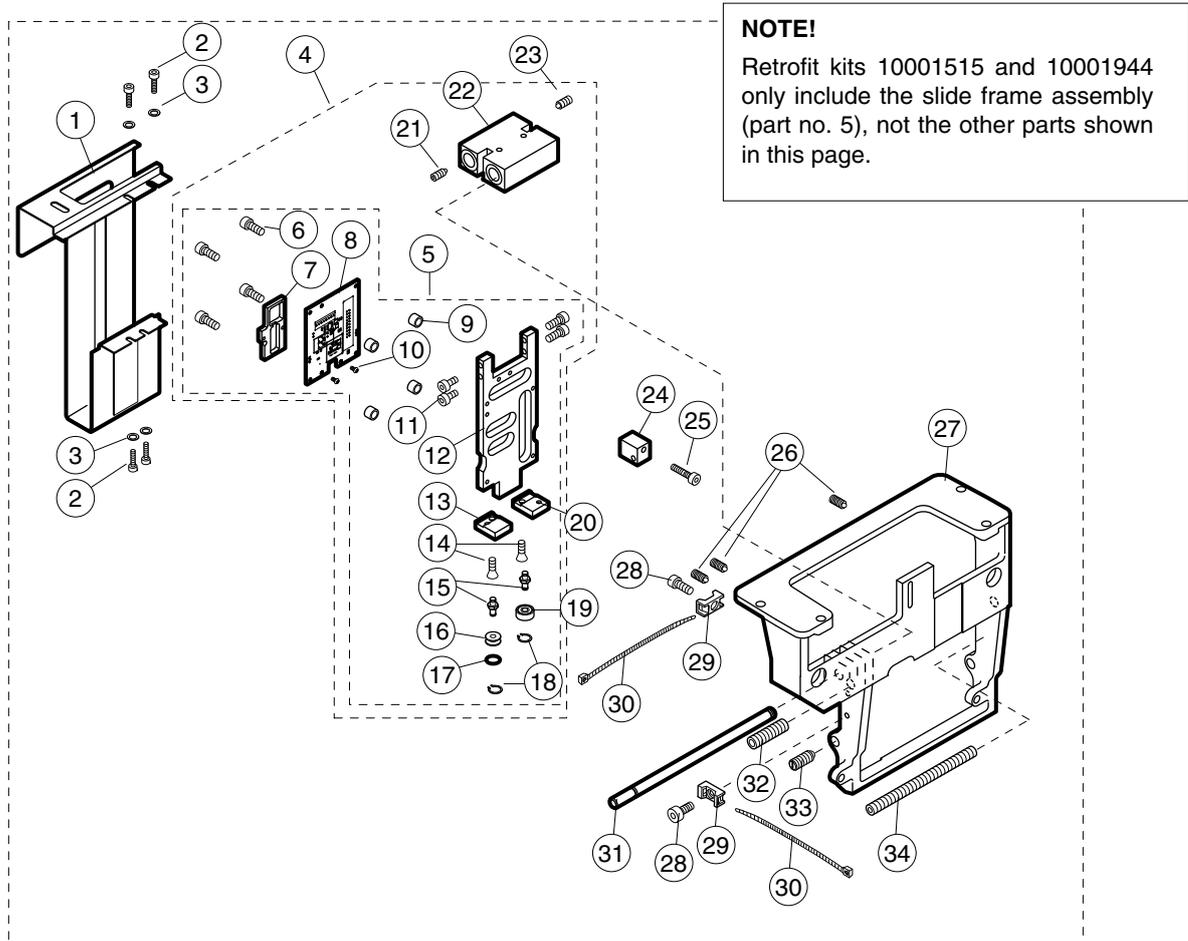
Ref	Part no.	Description
1	00007100	Transportation pin
2	00003344	Screw M8x110 Zn DIN 912
3	00652084	Sleeve
4	00007099	Transportation pin
5	00005312	Clamp screw
6	00656019	Clamp piece
7	00326227	Washer M14 DIN 9021
8	00003330	Washer ø8.4/25 DIN 9021
9	00002930	Counterweight locking screw
10	00653040	Packing piece
11	00653041	Packing piece
12	00653042	Packing piece
13	00671071	<b>Transportation accessories set (includes all parts 1..12)</b>

**4 CARRYING HANDLES**

Ref	Part no.	Description
1	00050985	Carrying handles, left and right
2	00003399	Knurled- head screw M6x20 GN 421
3	00003403	Wheel
4	00007494	Carrying handle, right (without wheels)
5	00007495	Carrying handle, left (without wheels)
6	00626003	Screw M12x20 Zn DIN 933

5 AEC RETROFIT KITS

5.1 Cassette driving mechanism

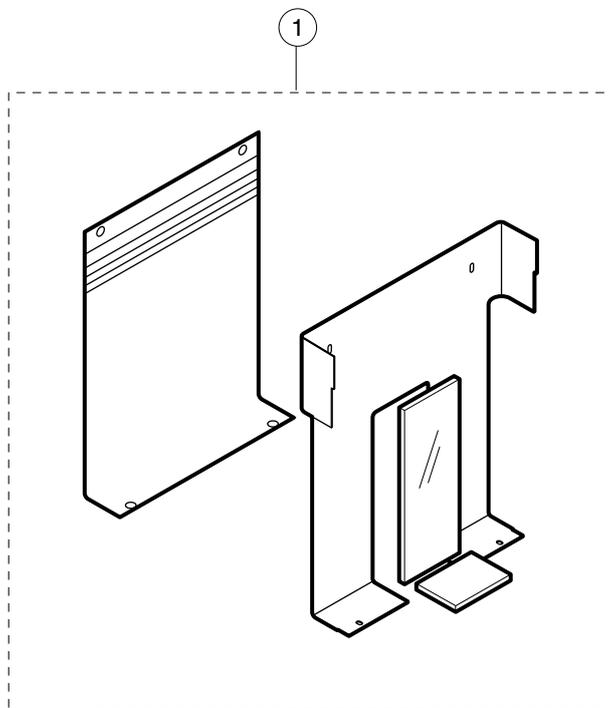


**NOTE!**  
Retrofit kits 10001515 and 10001944 only include the slide frame assembly (part no. 5), not the other parts shown in this page.

Ref	Part no.	Description
-	10001517	AEC retrofit kit for EC
-	10001515	AEC retrofit kit for EC+Ceph
-	10001947	AEC retrofit kit for EC+Autoprint
-	10001944	AEC retrofit kit for EC+Ceph+Autoprint
1	00007226	Inner secondary slot
2	00326018	Screw M3x6 DIN 912
3	00327034	Washer ø3 DIN 125
4	<b>10001295</b>	<b>Slide frame assembly with bearing block</b>
5	<b>10001516</b>	<b>Slide frame assembly</b>
6	00326020	Screw M3x10 ISO 7380
7	10001503	AEC sensor
8	10001065	Cassette limits PCB 105-10-04
9	00002221	Spacer
10	00326095	Screw M3x6 ISO 7380
11	00006335	Screw M4x16 DIN 7984
12	00005263	Slide frame
13	10001059	AEC support
14	00003660	Screw M4x8 DIN 7991
15	00005267	Pin
16	00007201	Roller

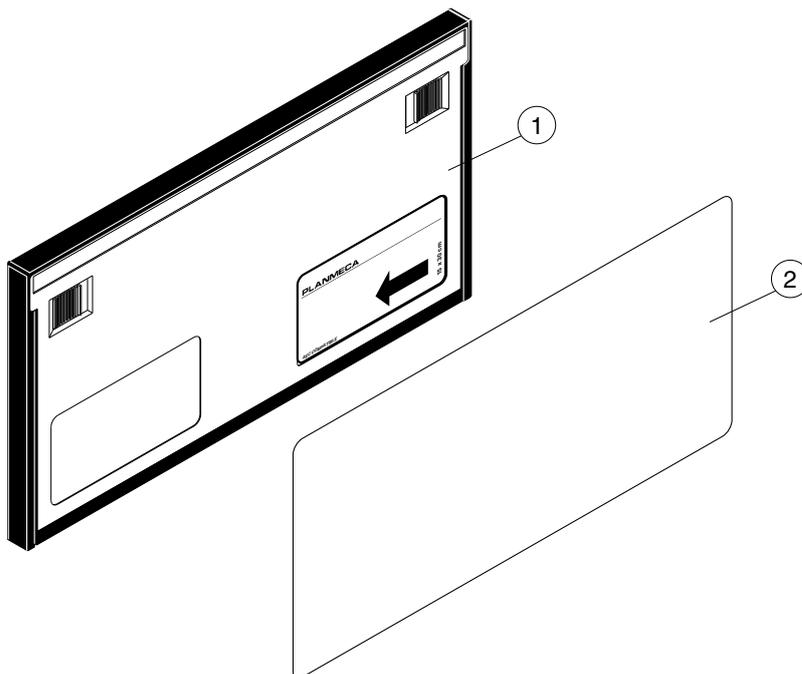
Ref	Part no.	Description
17	00007171	O-ring
18	00006005	Circlip ø4 DIN 471
19	00005702	Bearing
20	10001060	AEC cassette support
21	00003143	Screw M4x6 DIN 916
22	<b>00671087</b>	<b>Bearing bloc assembly ø10mm</b>
23	00006634	Screw M4x10 DIN 913
24	00007370	Block
25	00626001	Screw M4x25 DIN 7984
26	00003143	Screw M4x6 DIN 916
27	00655105	Cassette holder frame
28	00326015	Screw M4x6 DIN 7984
29	00007016	Cable tie holder
30	00001490	Cable tie
31	00005269	Axle
32	00003366	Screw M8x35 DIN 913 (not ceph)
33	00665026	Stop magnet
34	00006883	Locking screw (not ceph)

## 5.2 Cassette cover for AEC retrofit kits 10001947 and 10001517



Ref	Part no.	Description
1	00665142	Cover assembly for AEC retrofit kits 10001947 and 10001517

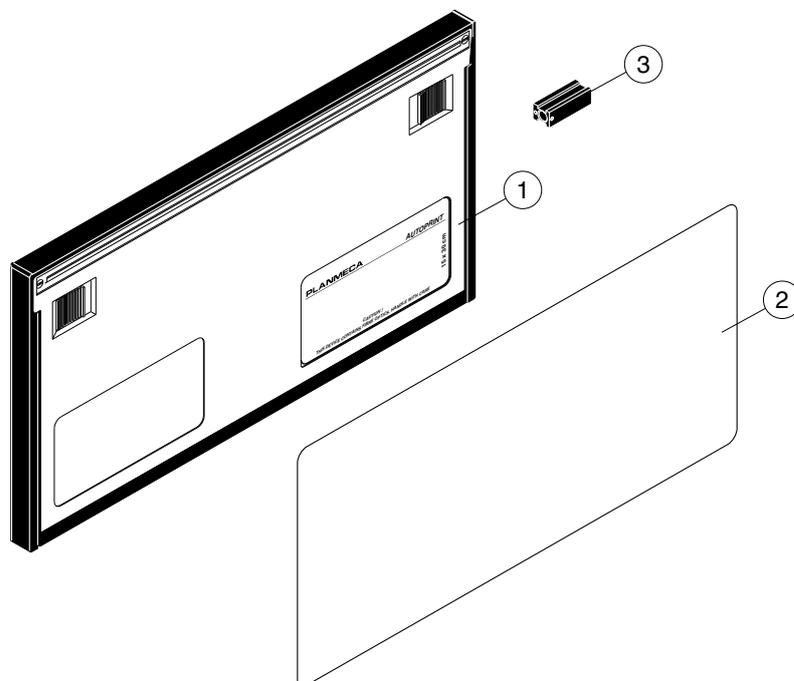
5.3 Regular panoramic cassette, 15x30 for AEC retrofit kits 10001517 and 10001515



Ref	Part no.	Description
1	10001287	Cassette, Kodak Lanex Regular

Ref	Part no.	Description
2	10007201	Intesifying screen, Kodak Ektavision

5.4 Autoprint cassette, 15x30 for AEC retrofit kits 10001944 and 10001947



Ref	Part no.	Description
1	10001288	Autoprint cassette, Kodak Lanex Regular
2	10007201	Intesifying screen, Kodak Ektavision

Ref	Part no.	Description
3	00665170	Printhead cover new cassette

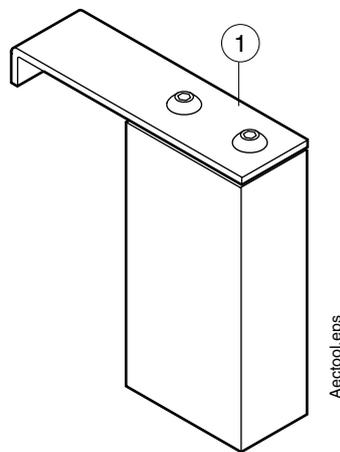
5.5 Softwares, see "Software and PCB compability information"



Ref	Part no.	Description
1A	10011478	Software PK, from ser. no 421512
1B	10012715	Software PK, before ser. no 421512

Ref	Part no.	Description
2A	10011479	Software PG, from ser. no 421512
2B	10012716	Software PG, before ser. no 421512

5.6 Calibration tool



Ref	Part no.	Description
1	10002199	AEC calibration filter



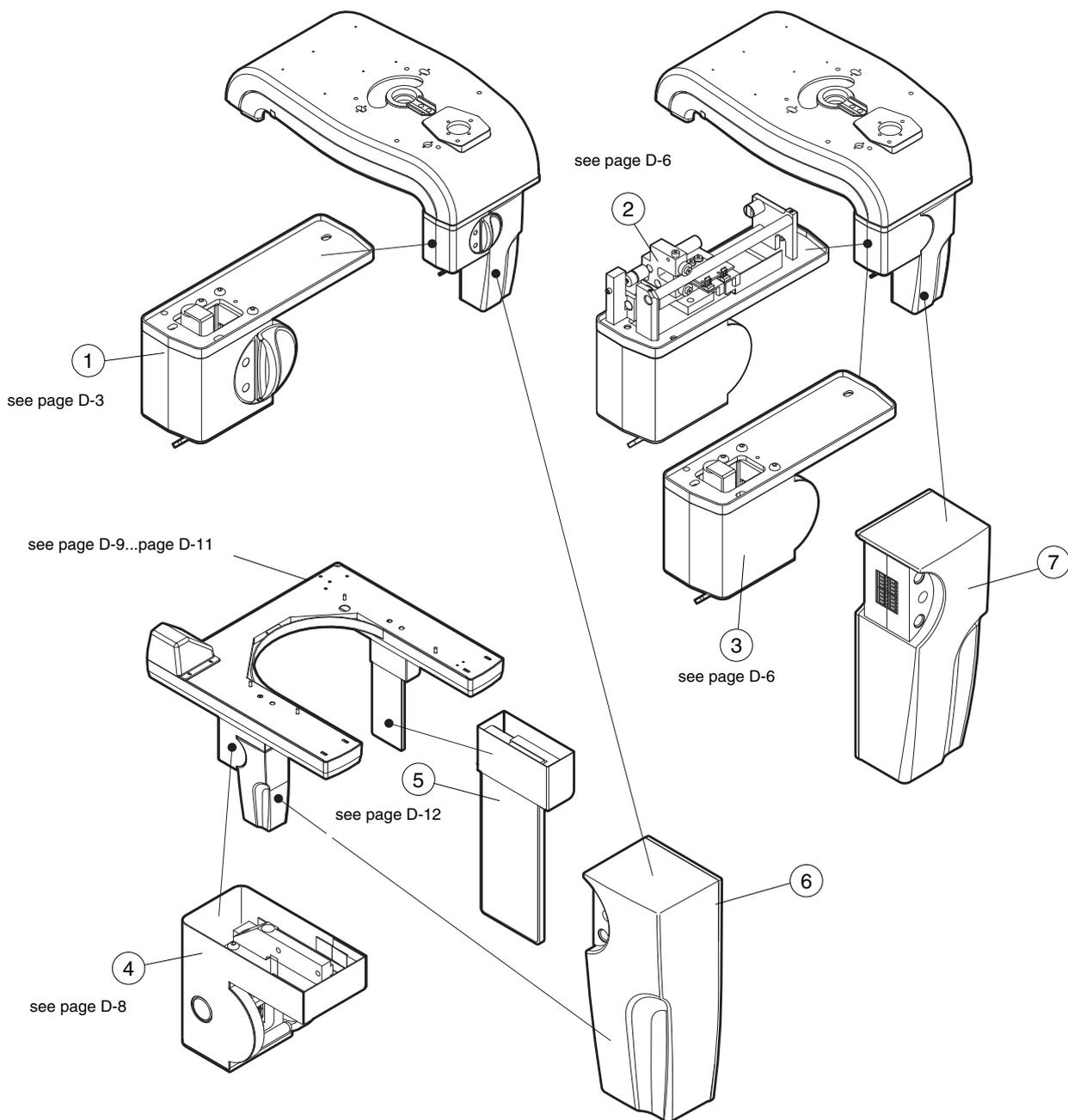
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Chapter

**D**

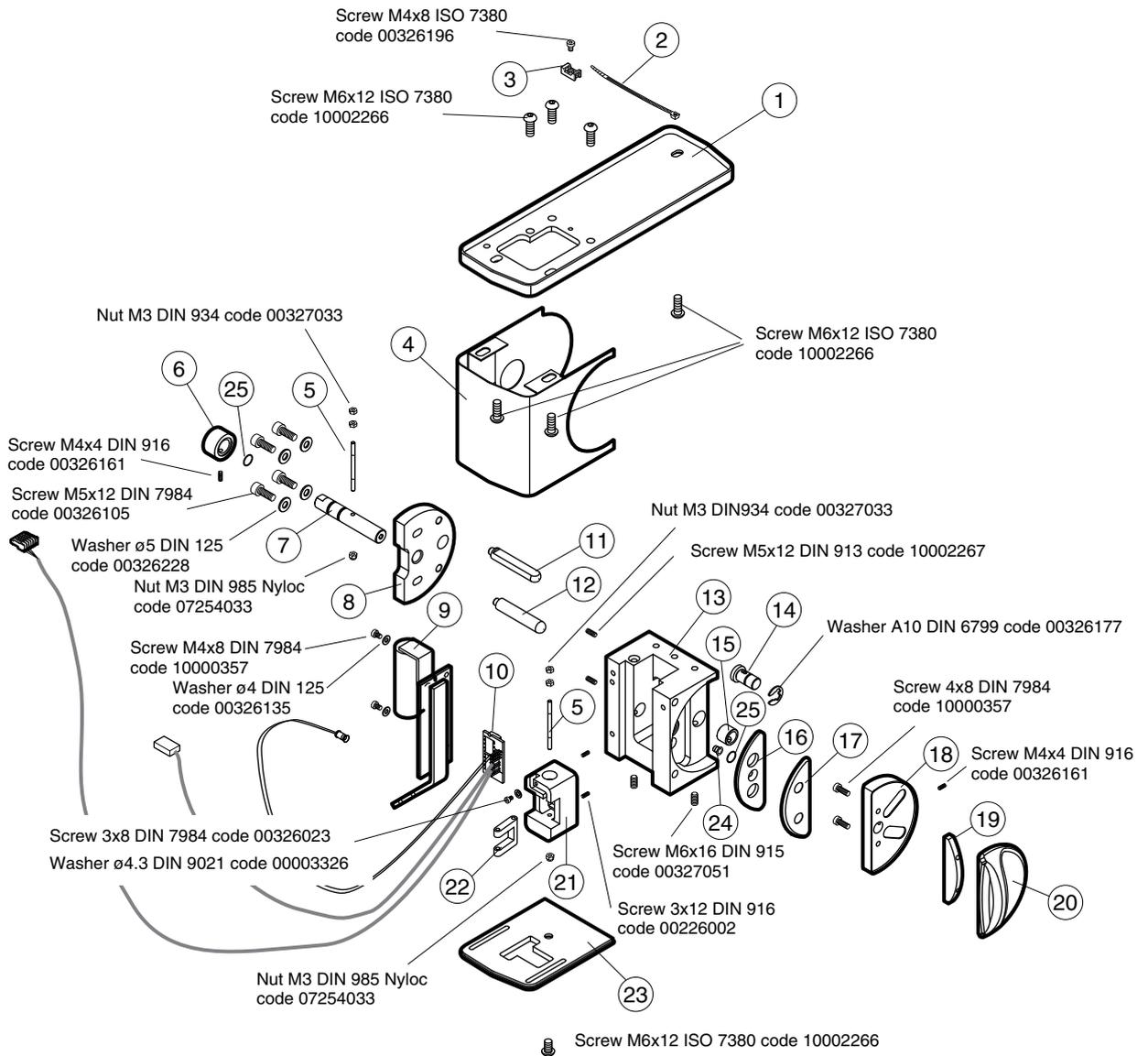
# **DIMAX3 AND DIMAX DIGITAL PANORAMIC SYSTEM**

# 1 DIMAX3



Ref.	Part no.	Description
1	10002298	Dimax2 Proline panoramic connector
2	10002345	Dimax2 Proline fixed panoramic connector
3	10002299	Dimax2 Proline cephalostat connector
4	10002301	Dimax2 Proline cephalostat 2nd primary collimator
5	10007348	Dimax3 Proline cephalostat sensor
6	10007347	Dimax3 Proline panoramic sensor

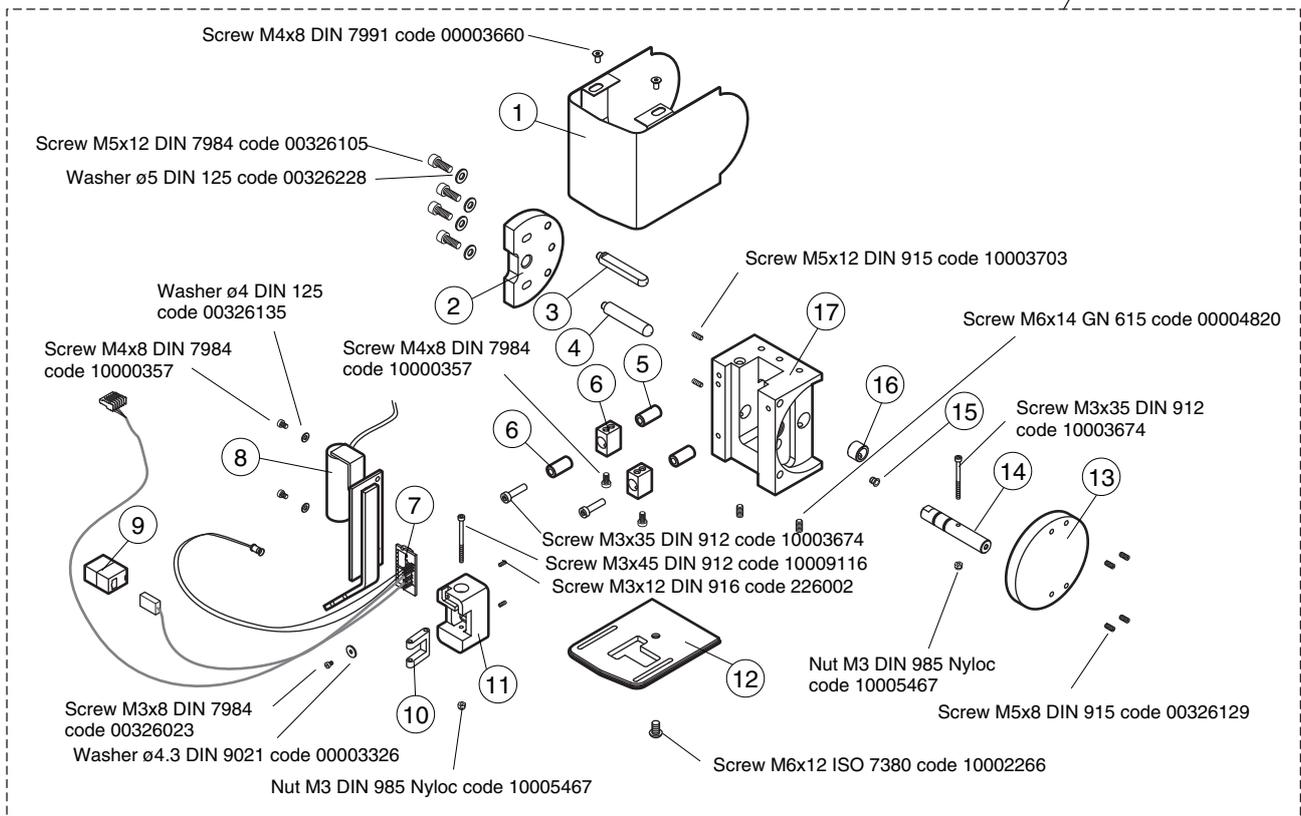
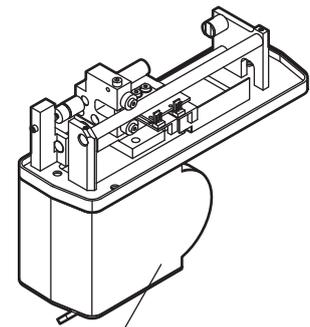
1.1 Dimax3 Proline panoramic connector



Ref.	Part no.	Description
1	10001592	Adapter of panoramic connector
2	00001490	Cable tie
3	00007016	Cable tie holder
4	10001099	Side cover of panoramic connector
5	10001593	Needle axle
6	10001596	Locking knob
7	10001595	Button axle
8	10001587	Bar disc of panoramic connector
9	10002315	Dimax2 Proline frankfort laser
10	10001758	Dimax2 Data cable
11	10001608	Chamfered bar
12	10001585	Bar
13	10001583	Connector frame

Ref.	Part no.	Description
14	10001599	Handle axle
15	10001598	Bearing of handle axle
16	10001597	Off-button
17	10001624	Lable LBL-X-106
18	10001600	Handle frame of panoramic connector
19	10001602	Support of handle rubber
20	10001603	Handle rubber
21	10001584	Connector plastic
22	10001594	Lever
23	10001589	Bottom cover plate of panoramic connector
24	00006543	Led sleeve HLMP0103
25	00006662	O-ring 10.82x1.78

1.2 Dimax3 Proline fixed panoramic connector for pan/ceph units

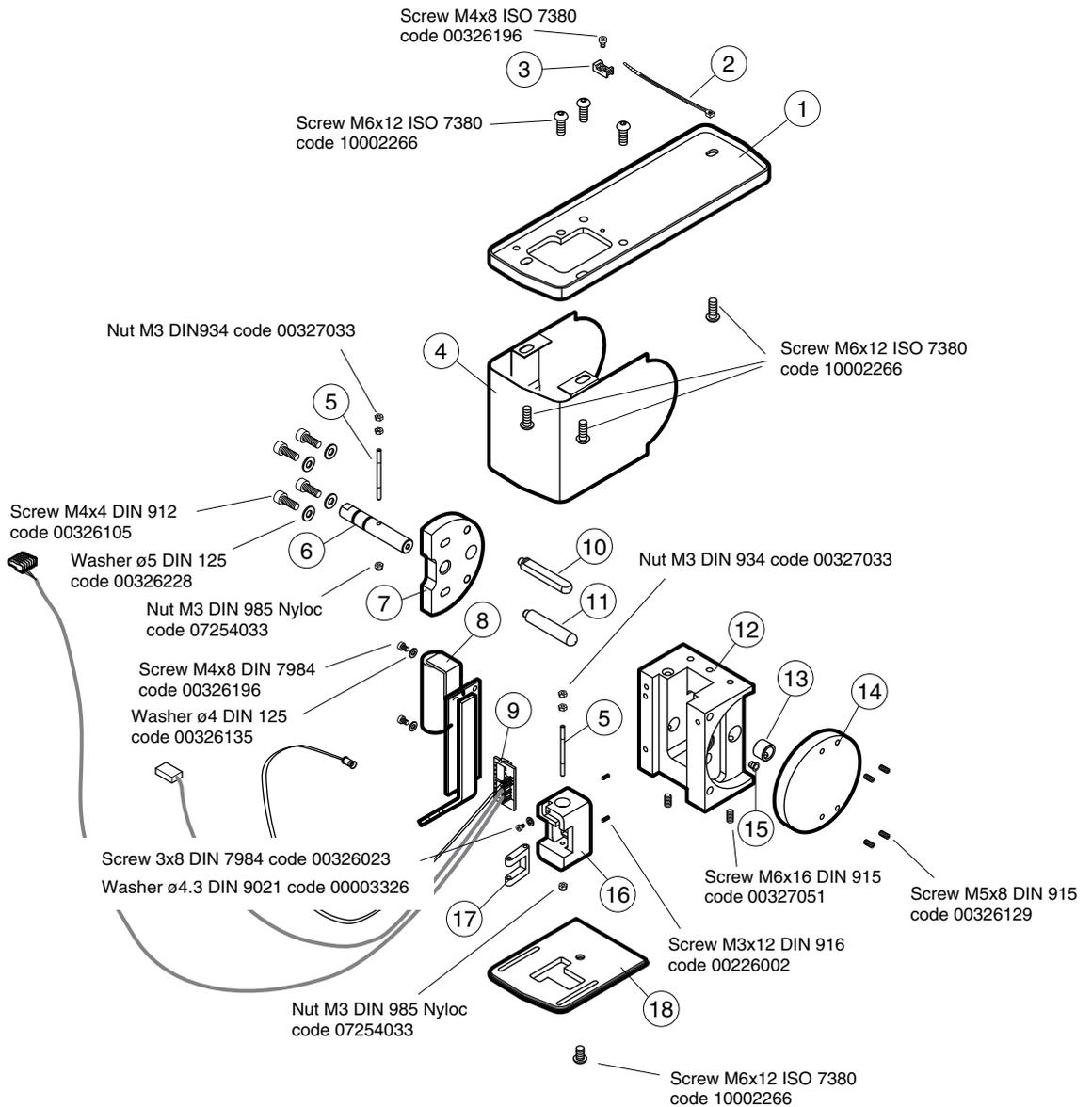


Ref.	Part no.	Description
1	10001607	Side cover of panoramic connector
2	10001588	Bar disc of cephalo connector
3	10001608	Chamfered bar
4	10001585	Bar
5	10002466	Cover fastening bar
6	10002467	Cover fastener
7	10001758	Dimax data cable
8	10002315	Dimax Proline frankfort laser
9	10002209	TD 1018 Adapter IN-LINE
10	10001594	Lever
11	10001584	Connector plastic
12	10001589	Bottom cover plate of pan. connector
13	10002094	Locking disc of sensor
14	10001595	Bottom axle

Ref.	Part no.	Description
15	00006543	Led sleeve HLMP0103
16	10001598	Bearing of handle axle
17	10001583	Connector frame



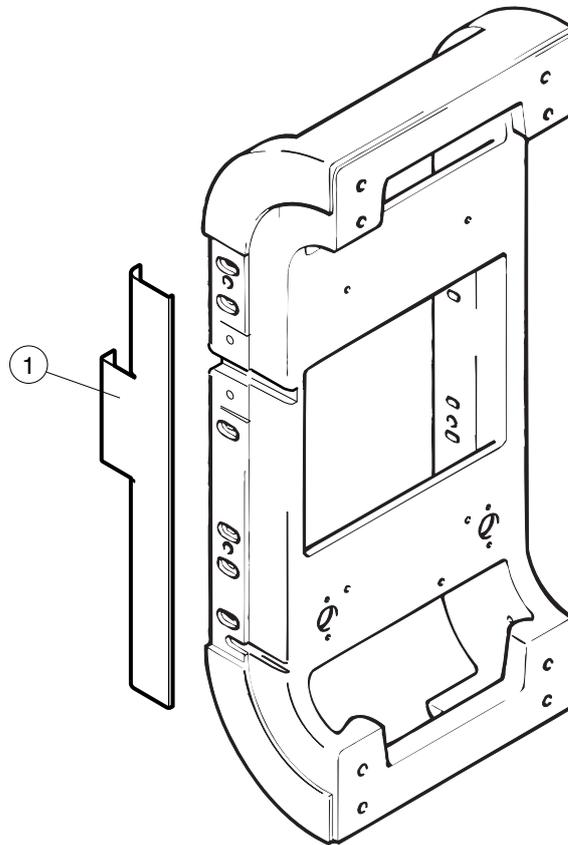
1.3 Dimax3 Proline fixed panoramic connector



Ref.	Part no.	Description
1	10001592	Adapter of panoramic connector
2	00001490	Cable tie
3	00007016	Cable tie holder
4	10001607	Side cover of panoramic connector
5	10001593	Needle axle
6	10001595	Button axle
7	10001587	Bar disc of panoramic connector
8	10002315	Dimax2 Proline frankfort laser
9	10001758	Dimax2 Data cable
10	10001608	Chamfered bar
11	10001585	Bar
12	10001583	Connector frame
13	10001598	Bearing of handle axle

Ref.	Part no.	Description
14	10002094	Locking disc of sensor
15	00006543	Led sleeve HLMP0103
16	10001584	Connector plastic
17	10001594	Lever
18	10001589	Bottom cover plate of panoramic connector

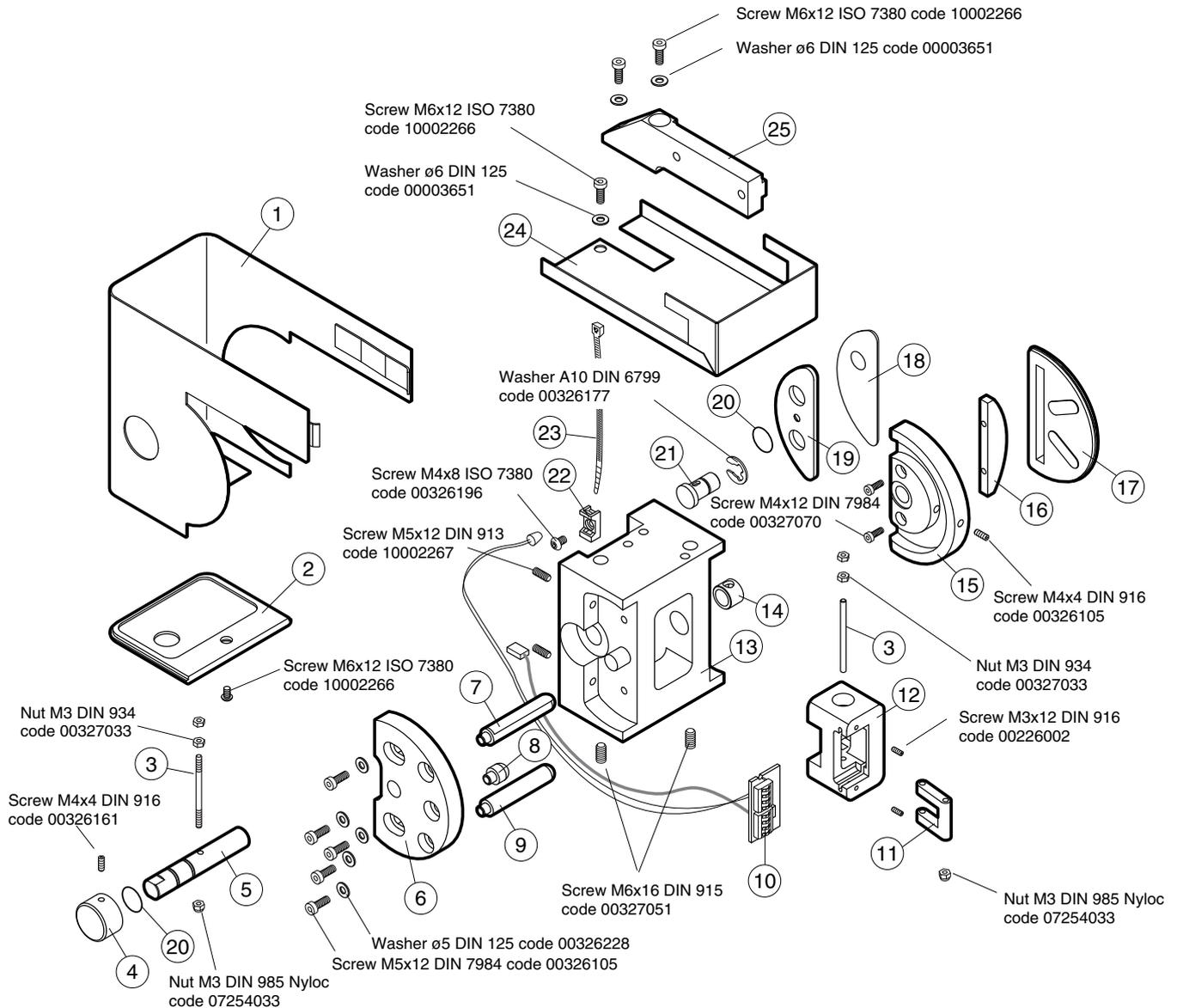
## 1.3.1 Z-carriage



Ref.	Part no.	Description
1	10002190	Cover strip

1.4 Panoramic unit with cephalostat

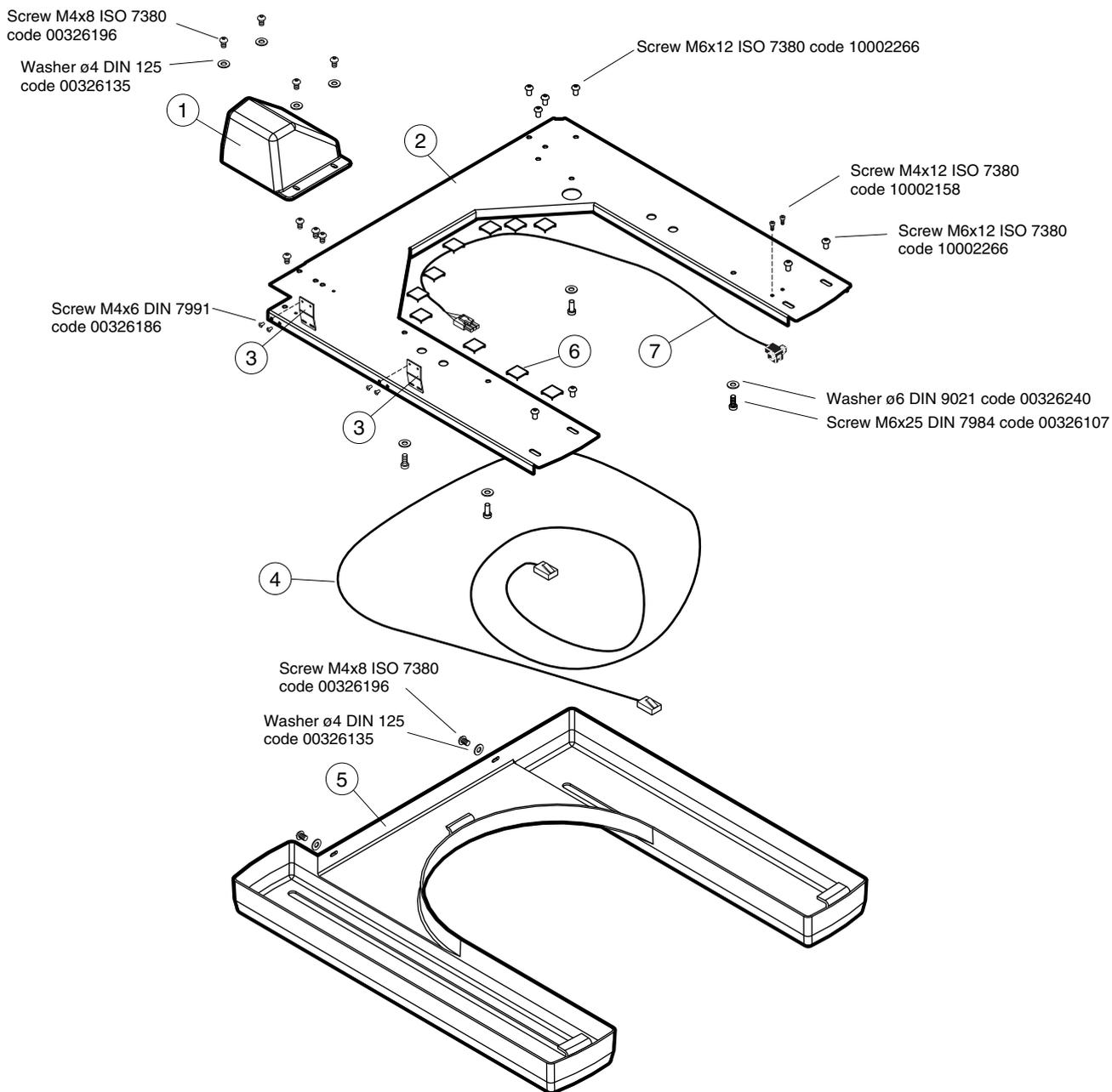
1.4.1 Dimax3 Proline cephalostat connector



Ref.	Part no.	Description
1	10001577	Side cover of cephalostat connector
2	10001590	Bottom cover plate of cephalostat connector
3	10001593	Needle axle
4	10001596	Locking knob
5	10001595	Button axle
6	10001588	Bar disc of cephalostat connector
7	10001608	Chamfered bar
8	10001586	Code bar
9	10001585	Bar
10	10001759	Dimax2 Data cable, cephalostat
11	10001594	Lever
12	10001584	Connector plastic

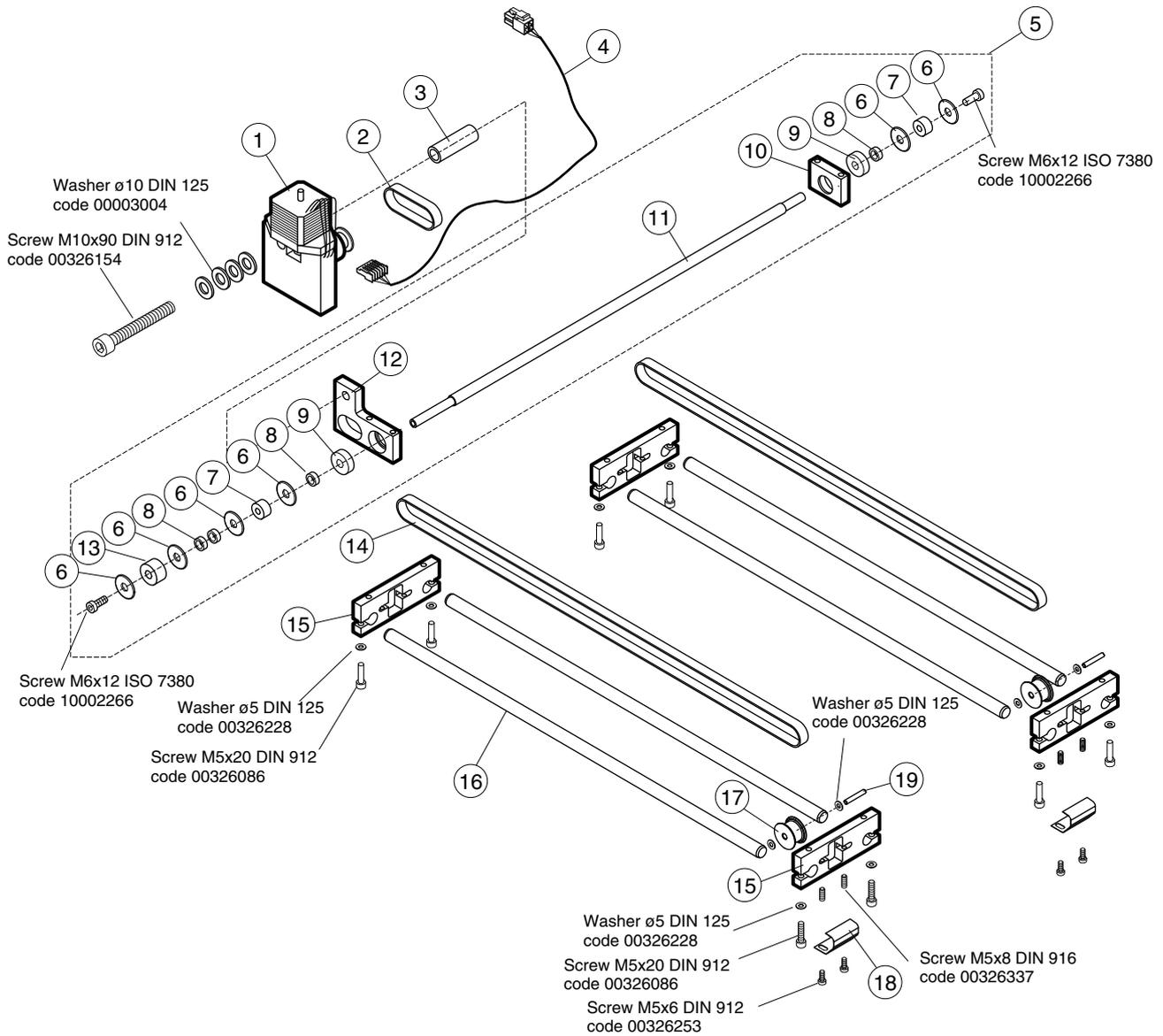
Ref.	Part no.	Description
13	10001583	Connector frame
14	10001598	Bearing of handle axle
15	10001601	Handle frame of cephalostat connector
16	10001602	Support of handle rubber
17	10001603	Handle rubber
18	10001624	Lable LBL-X-106
19	10001597	Off-button
20	00006662	O-ring 10.82x1.78
21	10001599	Handle axle
22	00007016	Cable tie holder
23	00001490	Cable tie
24	10002193	Ceph bottom cover
25	10001623	Cephalostat holder of connector

1.4.2 Cephalostat mechanism frame



Ref.	Part no.	Description
1	10001650	Motor cover
2	10001630	Sheet frame
3	10001648	Cable holder
4	10002157	Dimax2 cephalostat data cable
5	10001649	Frame cover
6	00002269	Cable anchor
7	10001761	Limit sensor cable, cephalostat

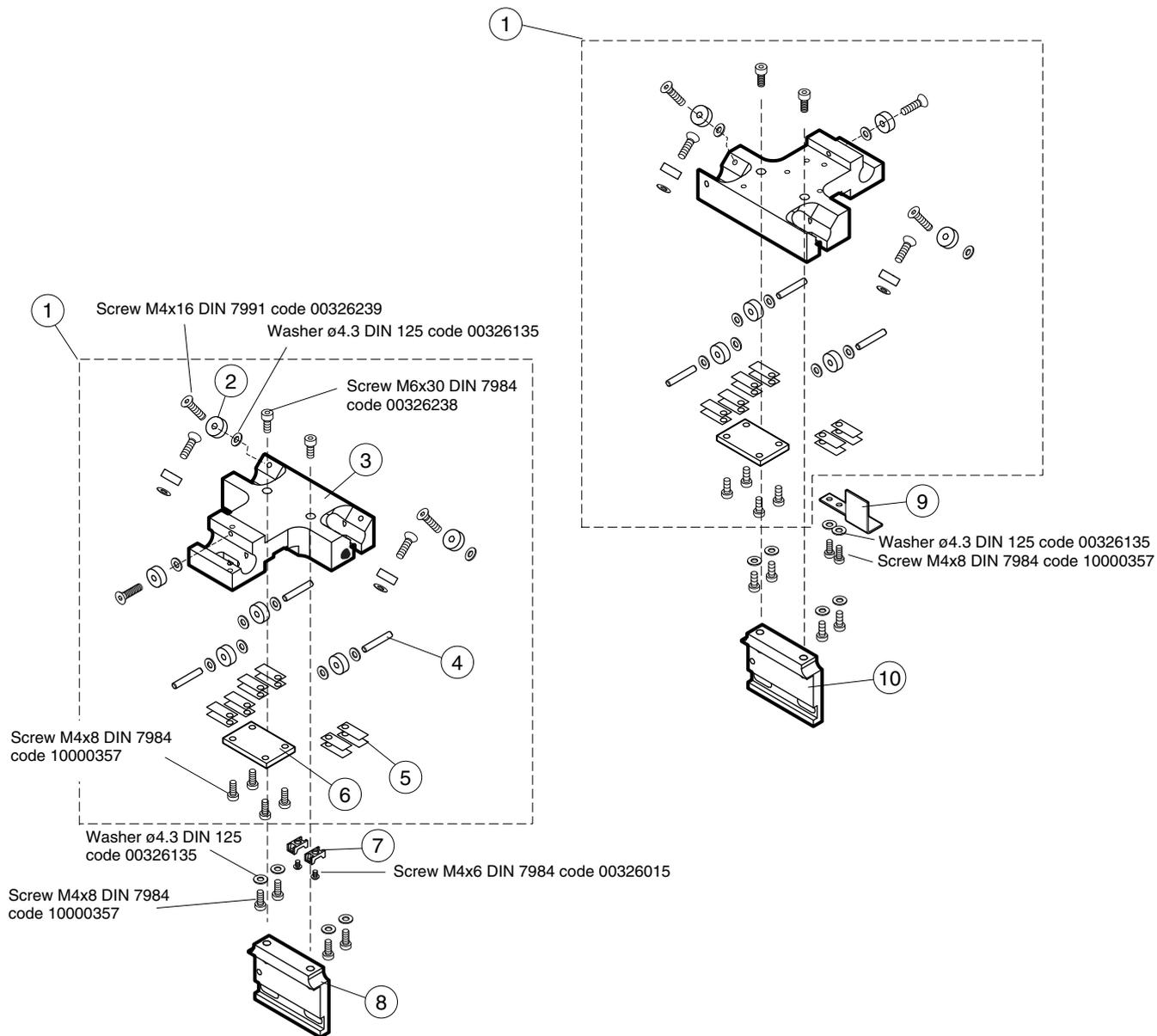
1.4.3 Cephalostat mechanism



Ref.	Part no.	Description
1	10002325	Dimax2 Proline cephalostat motor
2	10002334	Timing belt
3	10001634	Motor spacer
4	10001756	Cephalostat micromotor cable
5	10002324	Dimax2 Proline cephalostat main axle
6	10001633	Pinion washer
7	10001638	Belt pinion 20
8	10001642	Axle spacer
9	10002265	Ball bearing
10	10001635	Bearing rest
11	10001632	Main axle
12	10001636	Motor rest
13	10001639	Belt pinion 26

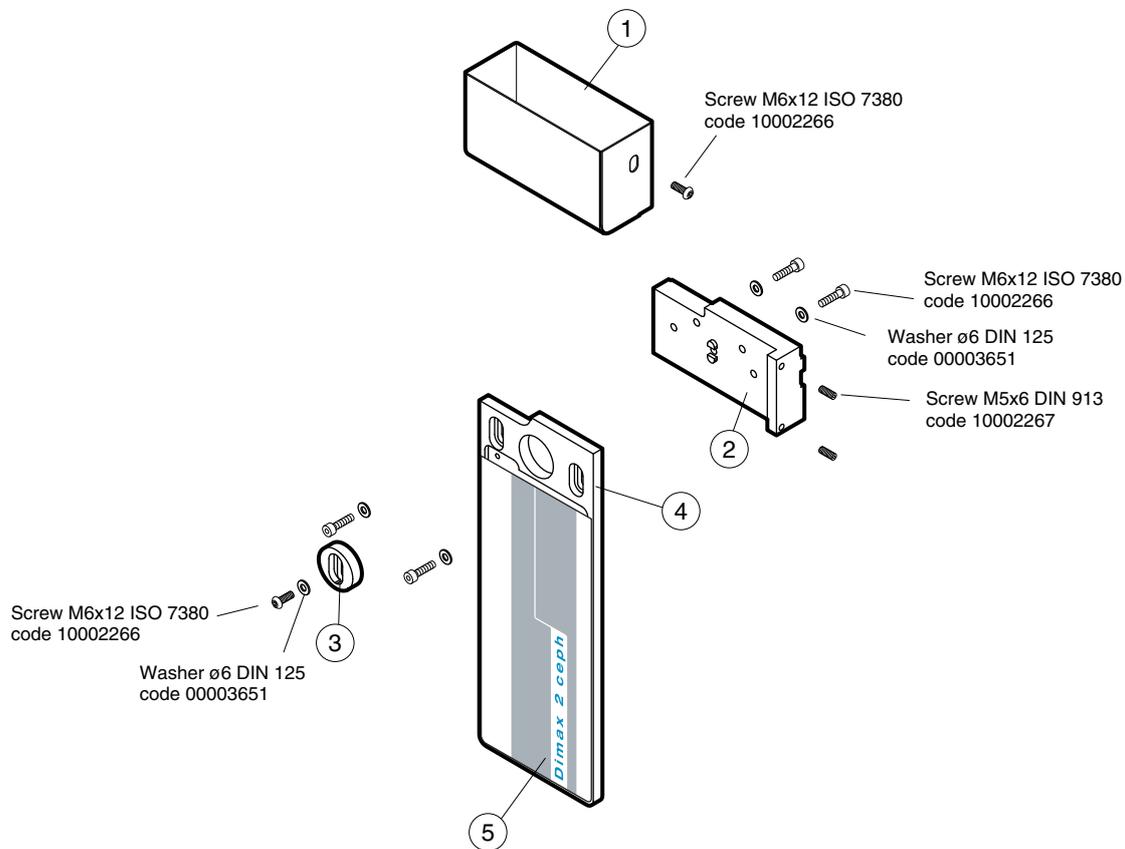
Ref.	Part no.	Description
14	10002331	Timing belt
15	10001625	Trail holder
16	10001626	Trail
17	10001627	Belt wheel
18	10001653	Fastening flat spring
19	10000428	Bearing needle NR5x34.8

1.4.4 Dimax3 Proline cephalostat sledges



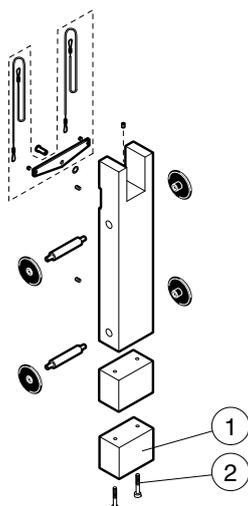
Ref.	Part no.	Description
1	10002323	Dimax2 proline cephalostat sledge
2	00005702	Ball bearing
3	10001629	Sledge
4	10001637	Bearing axle
5	10001640	Flat spring
6	10001641	Belt lock
7	00007016	Cable tie holder
8	10001645	Gap flange
9	10001656	Sensor plate
10	10003311	Collimator flange

1.4.5 Dimax3 Proline cephalostat 2nd primary collimator



Ref.	Part no.	Description
1	10002191	Collimator cover
2	10001646	Collimator connector
3	10001651	Collimator adjustment flange
4	<b>10003185</b>	<b>Collimator frame assembly</b>
5	10001699	Label LBL-X-108

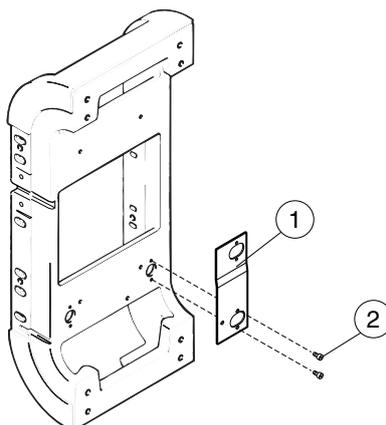
1.4.6 Column



Ref.	Part no.	Description
1	00006882	Ceph counterweight

Ref.	Part no.	Description
2	00326264	Screw 8x150 DIN 912

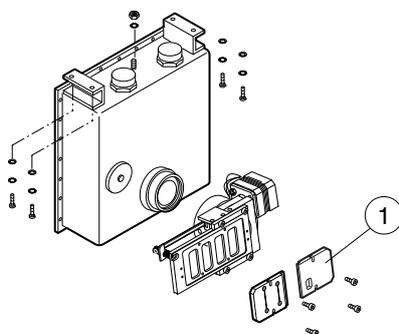
1.4.7 Z-carriage



Ref.	Part no.	Description
1	10002129	Offset plate of hall sensor

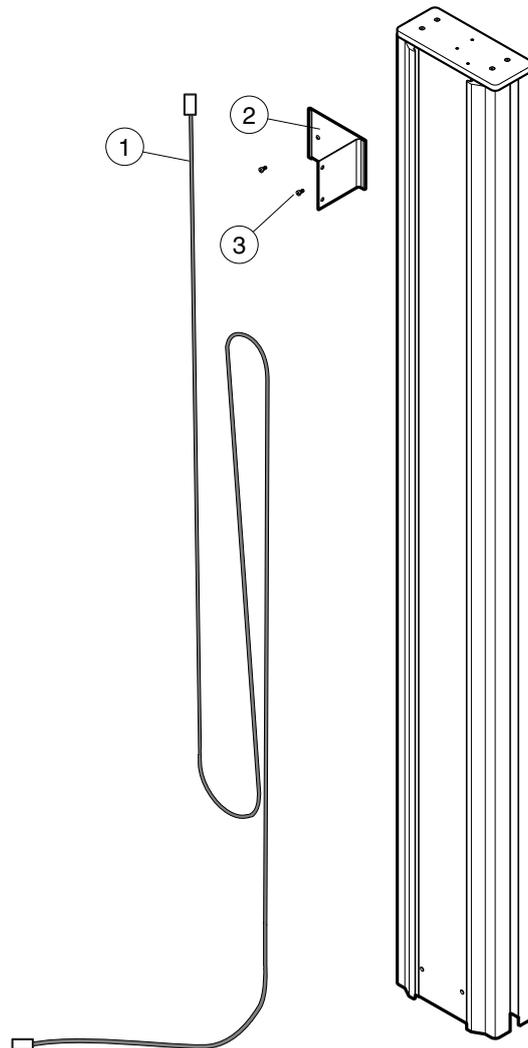
Ref.	Part no.	Description
2	00326026	Screw M4x8 DIN 7984

1.4.8 Tube head



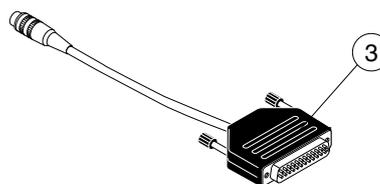
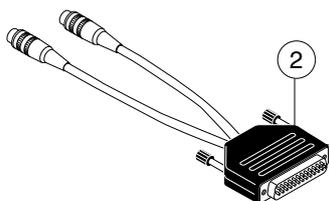
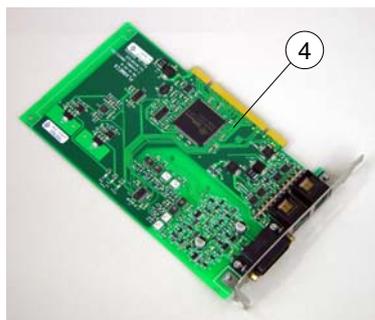
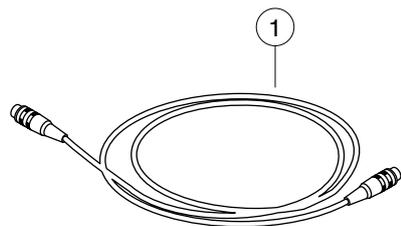
Ref.	Part no.	Description
1	10001696	First primary collimator

## 1.5 Dimax3 PCI interface cable



Ref.	Part no.	Description
1	10002211	Dimax2 PCI Interface cable
2	10002192	Cable attachment plate
3	00326026	Screw M4x8 DIN 7984

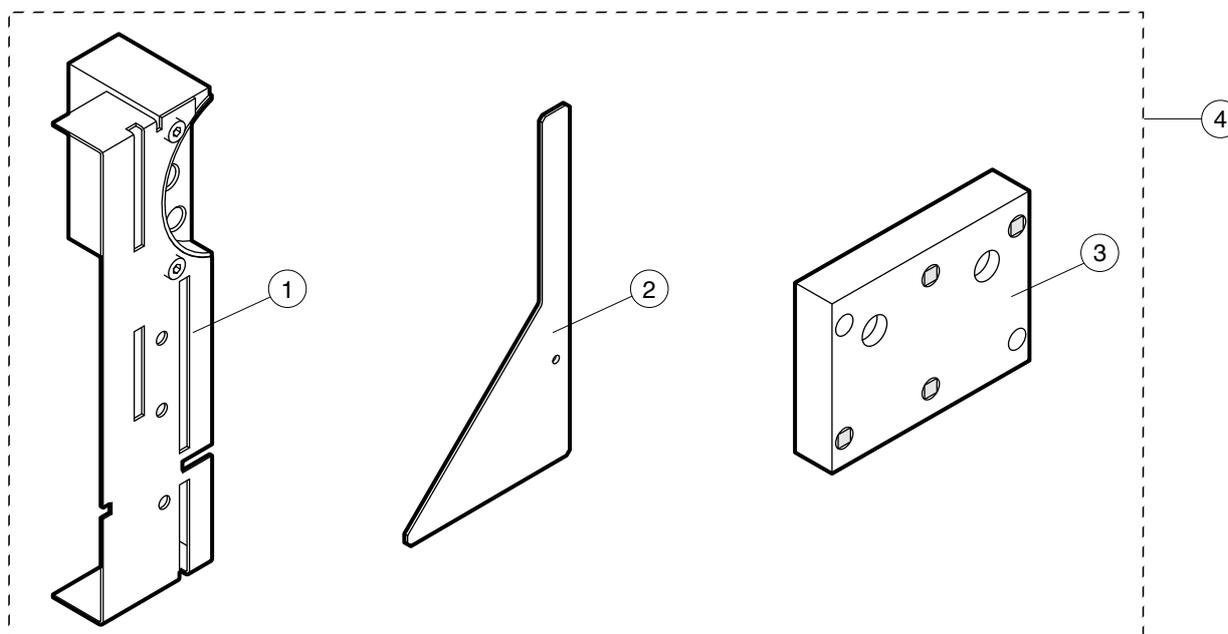
1.6 PC accessories



Ref.	Part no.	Description
1	10010208	Interconnection cable 10m
2	10010214	Planet grabber cable
3	10010448	Planet grabber cable

Ref.	Part no.	Description
4	10001254	2-Channel Dimax2/Dixi PCI Interface PCB 118-10-06

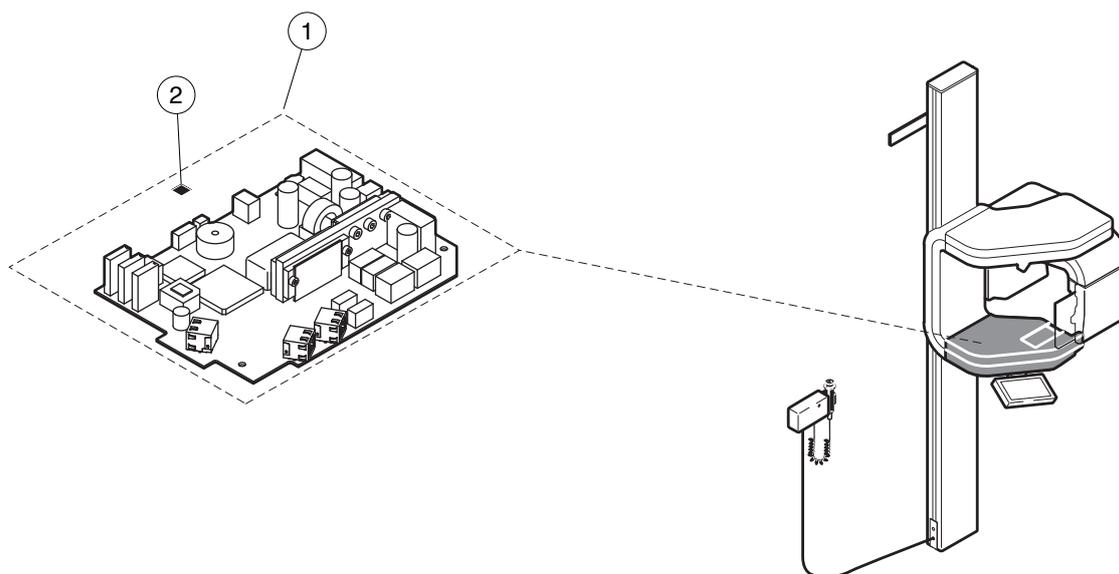
1.7 Dimax3 alignment tools



Ref.	Part no.	Description
1	10002699	Dimax2 sensor alignment tool
2	10002935	Dimax2 cephalostat calibration tool

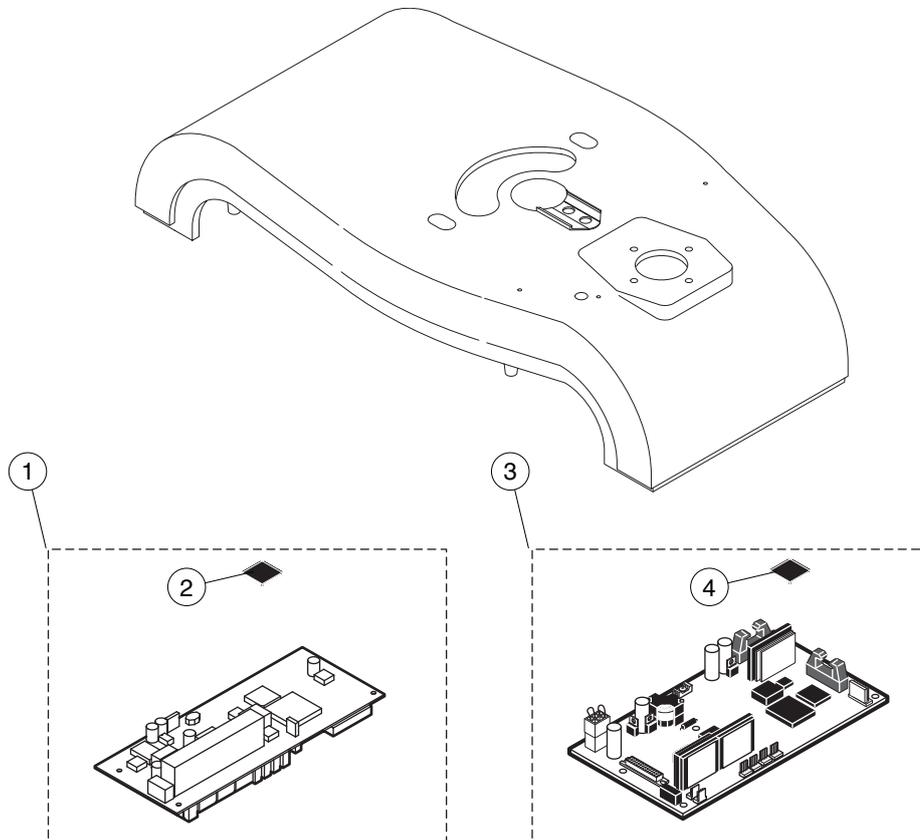
Ref.	Part no.	Description
3	00665413	Calibration block
4	10003845	Dimax2 calibration tool set

## 1.8 Keyboard processor PCB, see "Software and PCB compability information"



Ref.	Part no.	Description
1	10009419	Keyboard processor PCB105-10-27
2A	10010375	Software PK, from ser. no 421512
2B	10004422	Software PK, before ser. no 421512

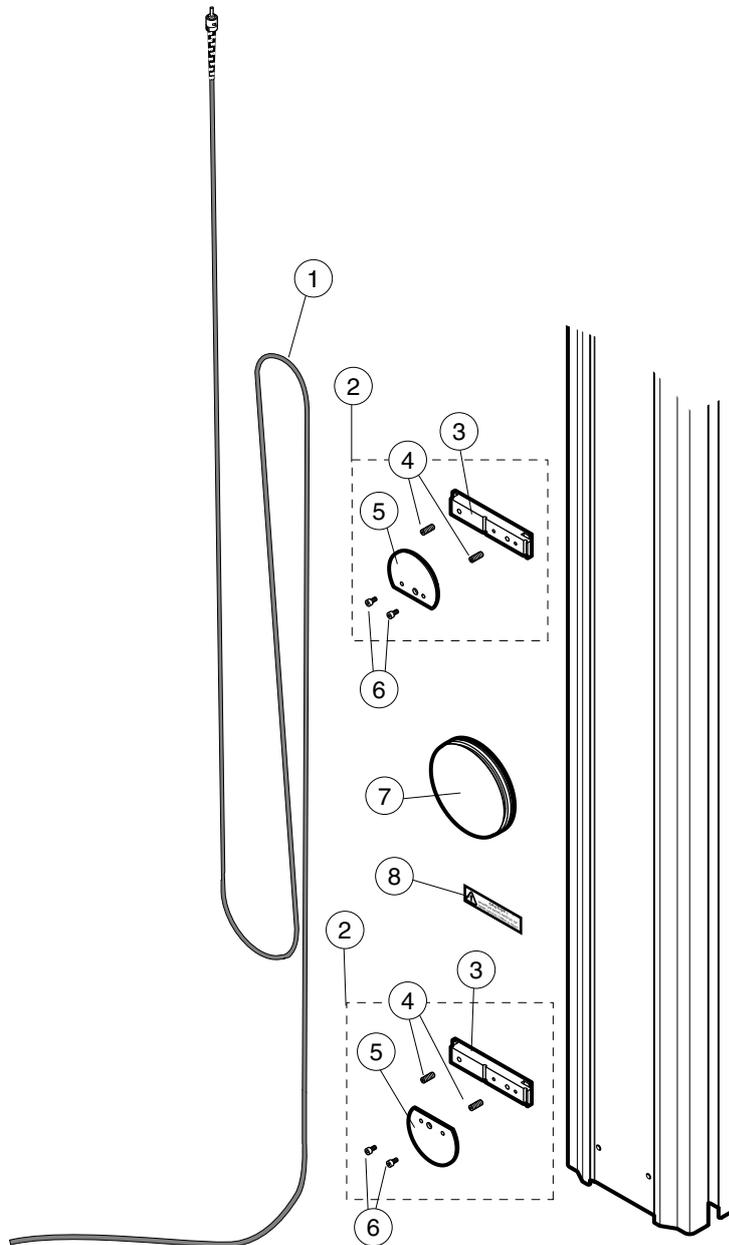
1.9 Generator Processor PCB, see “Software and PCB compatibility information”



Ref.	Part no.	Description
1	10009814	Generator CPU PCB 105-10-28
2	10010376	Software PG, from ser. no 421512
3	00665180	Generator PCB 105-10-03
4	10004421	Software PG, before ser. no 421512

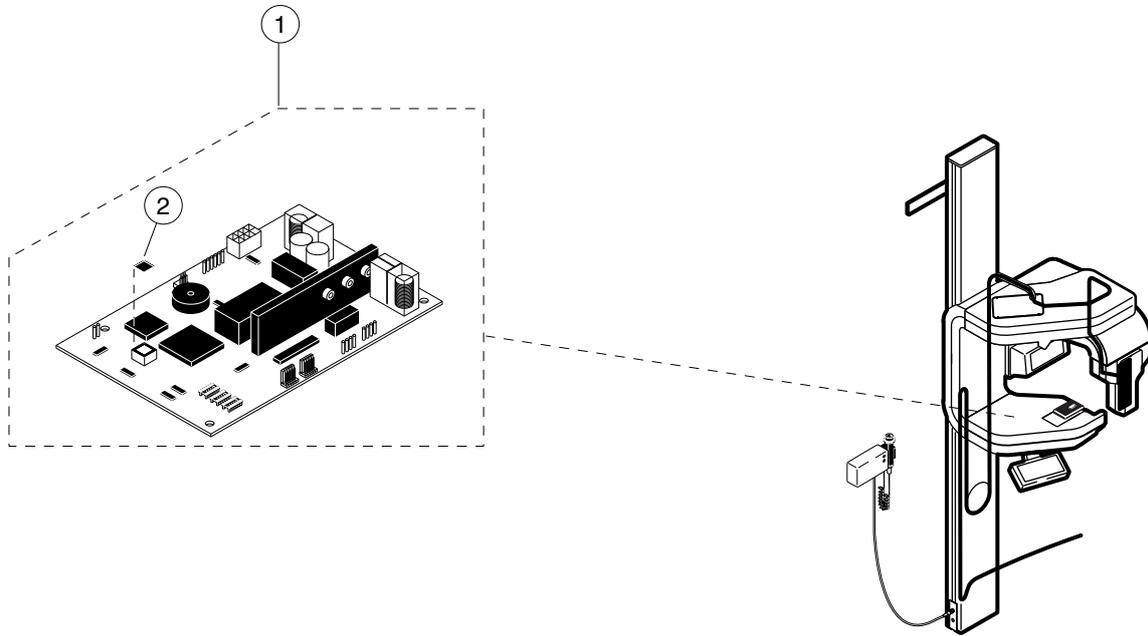
## 2 DIMAX

### 2.1 Optical fibre cable



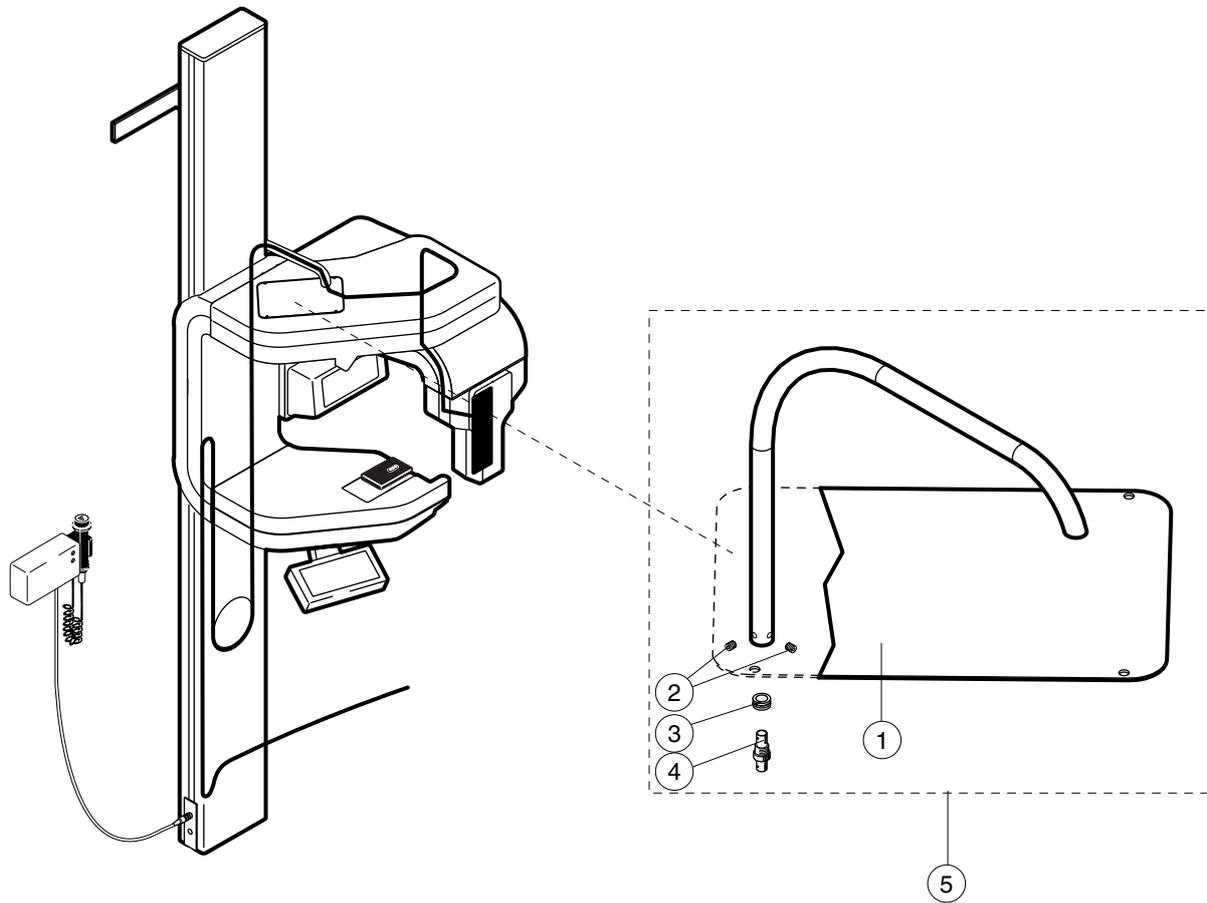
Ref.	Part no.	Description
1A	00637138	Optical fibre cable 10m
1B	00637147	Computer cable 20m
2	00665407	Cable holder guide wheel assembly
3	00655149	Wheel holder
4	00006521	Screw M6x16 DIN 916
5	00652479	Small cable guide wheel
6	00002922	Screw M4x8 DIN 912
7	00652480	Cable centre guide wheel
8	00620104	Label LBL-X-101

## 2.2 Keyboard processor PCB, see "Software and PCB compatibility information"



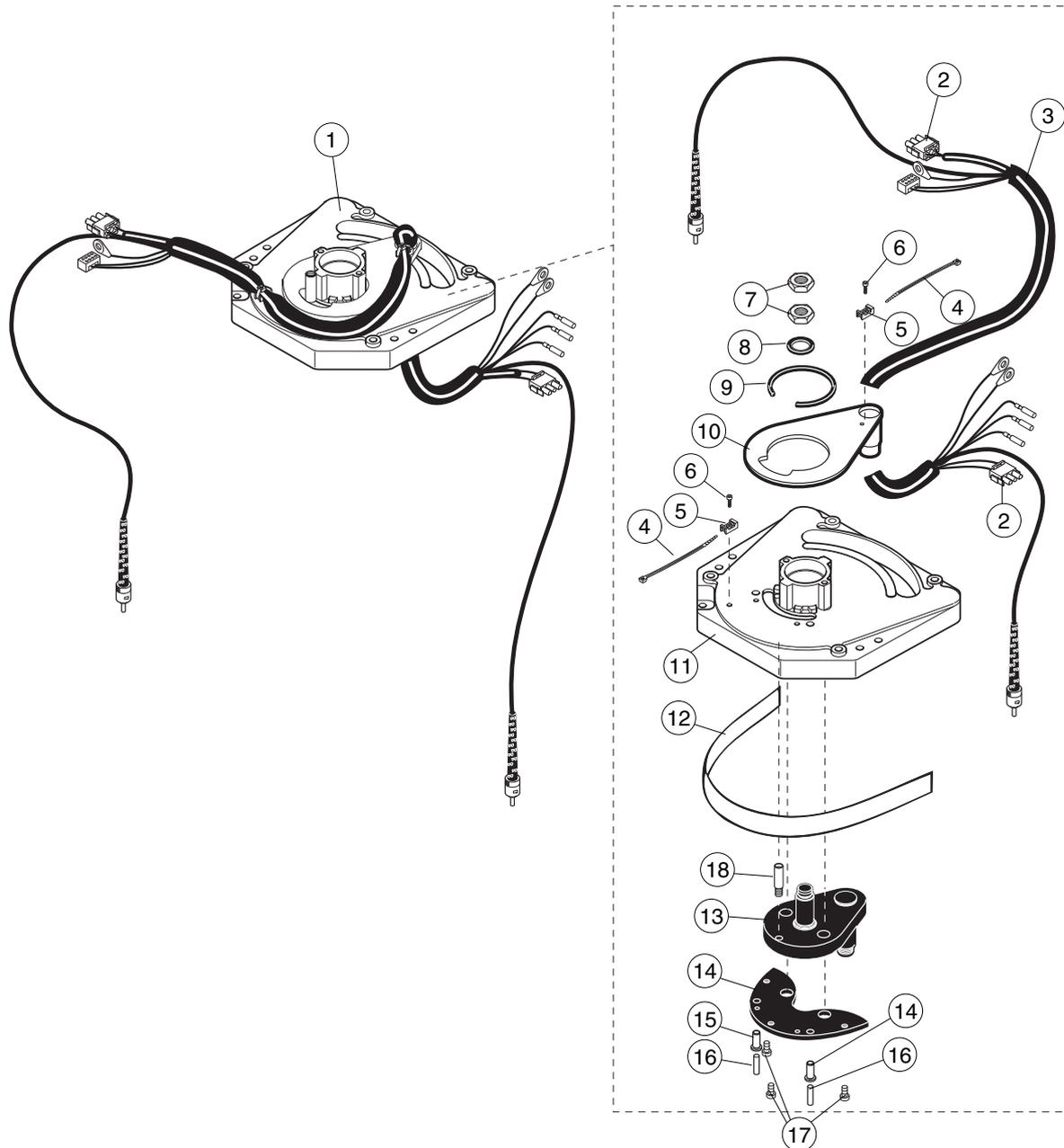
Ref.	Part no.	Description
1	00665070	Keyboard processor PCB 105-10-06
2	00471087	Software (3.46 or later)

2.3 Upper shelf cover



Ref.	Part no.	Description
1	00655150	Cover with optical fibre cable guide
2	00326088	Screw M3x3 DIN 914
3	00652481	Connector ring
4	00431378	Adapter
5	10000721	<b>Cover assembly</b>

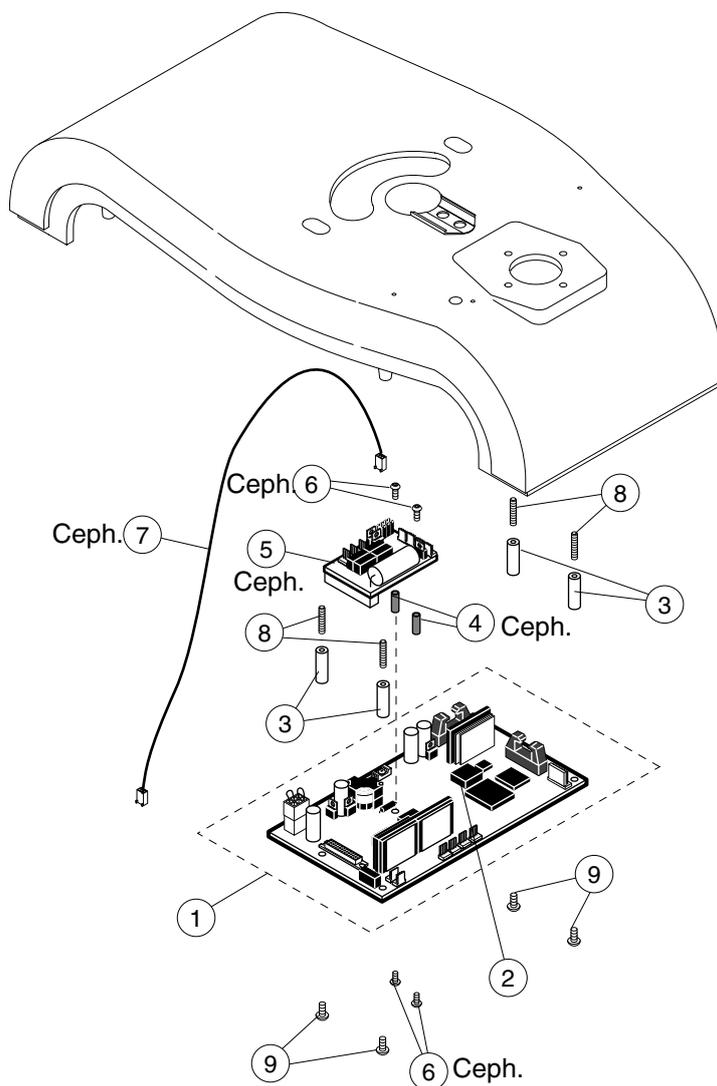
2.4 Guide block assembly



Ref.	Part no.	Description
1	00665403	Guide block assembly
2	00000460	Connector 0-350766-1
3	00637134	Connecting cable
4	00001490	Cable tie
5	00007016	Cable tie holder
6	00326015	Screw M4x6 DIN 7984
7	00005110	Nut
8	00000709	Washer ø18/25x1
9	00665076	Lock ring
10	00665074	Cable guide assembly
11	00655104	Guide block
12	00665077	Wear strip
13	00665073	Crank assembly
14	00665075	Guide profile assembly

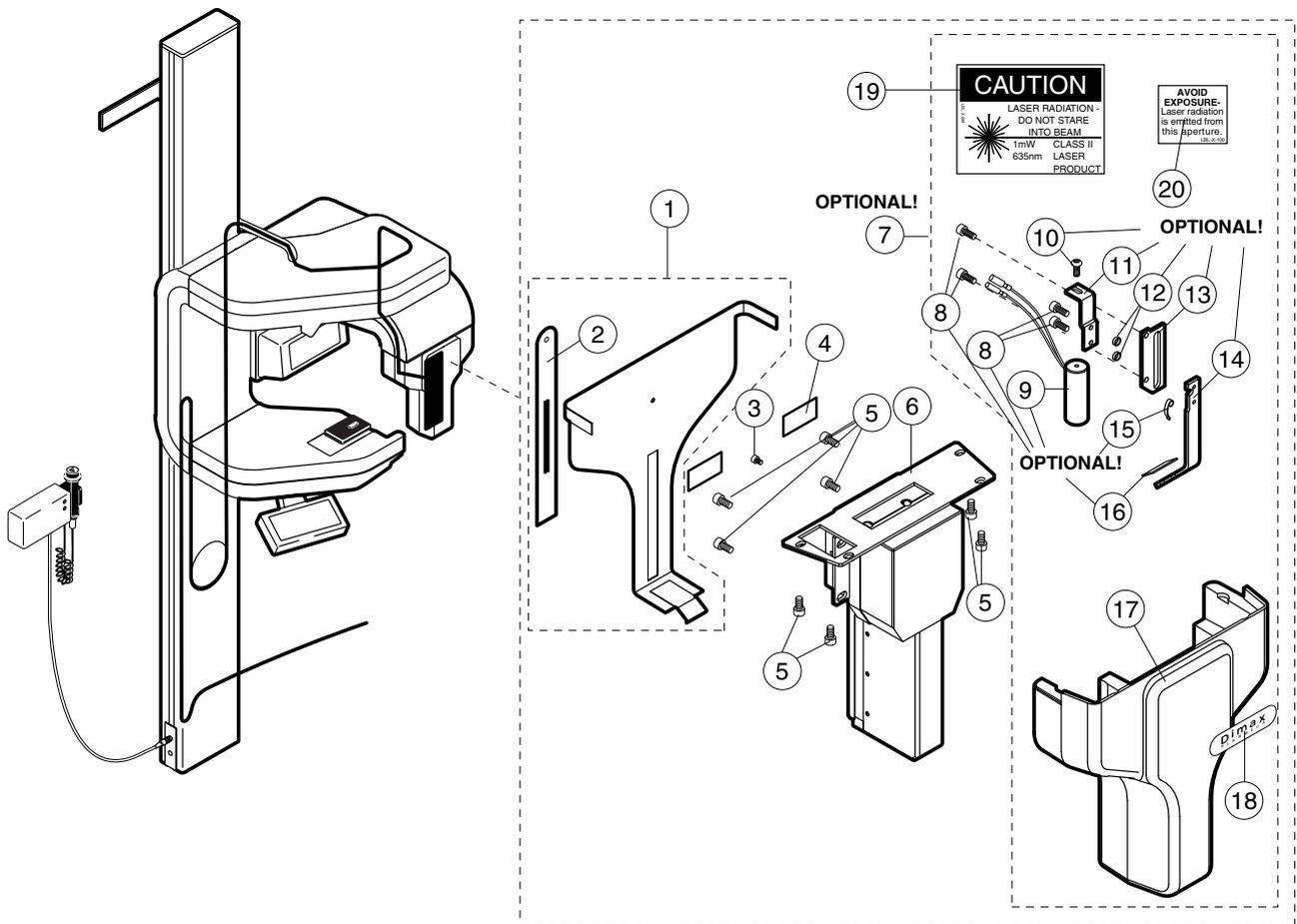
Ref.	Part no.	Description
15	00005302	Magnet holder
16	00006267	Magnet
17	00005836	Screw M6x12 DIN 7984
18	00005113	Deflection spring axle

2.5 Generator processor PCB, see "Software and PCB compatibility information"



Ref.	Part no.	Description
1	00665180	Generator processor 105-10-03
2	00471064	Software (3.07 or later)
3	00652424	Bush
4	00652447	Bush (ceph.)
5	06310514	Adapter PCB 105-10-14A (ceph.)
6	00326095	Screw M3x6 ISO 7380 (ceph.)
7	00637143	Ceph head opto cable (ceph.)
8	00326063	Screw M4x20 DIN 916
9	00326040	Screw M4x8 ISO 7380

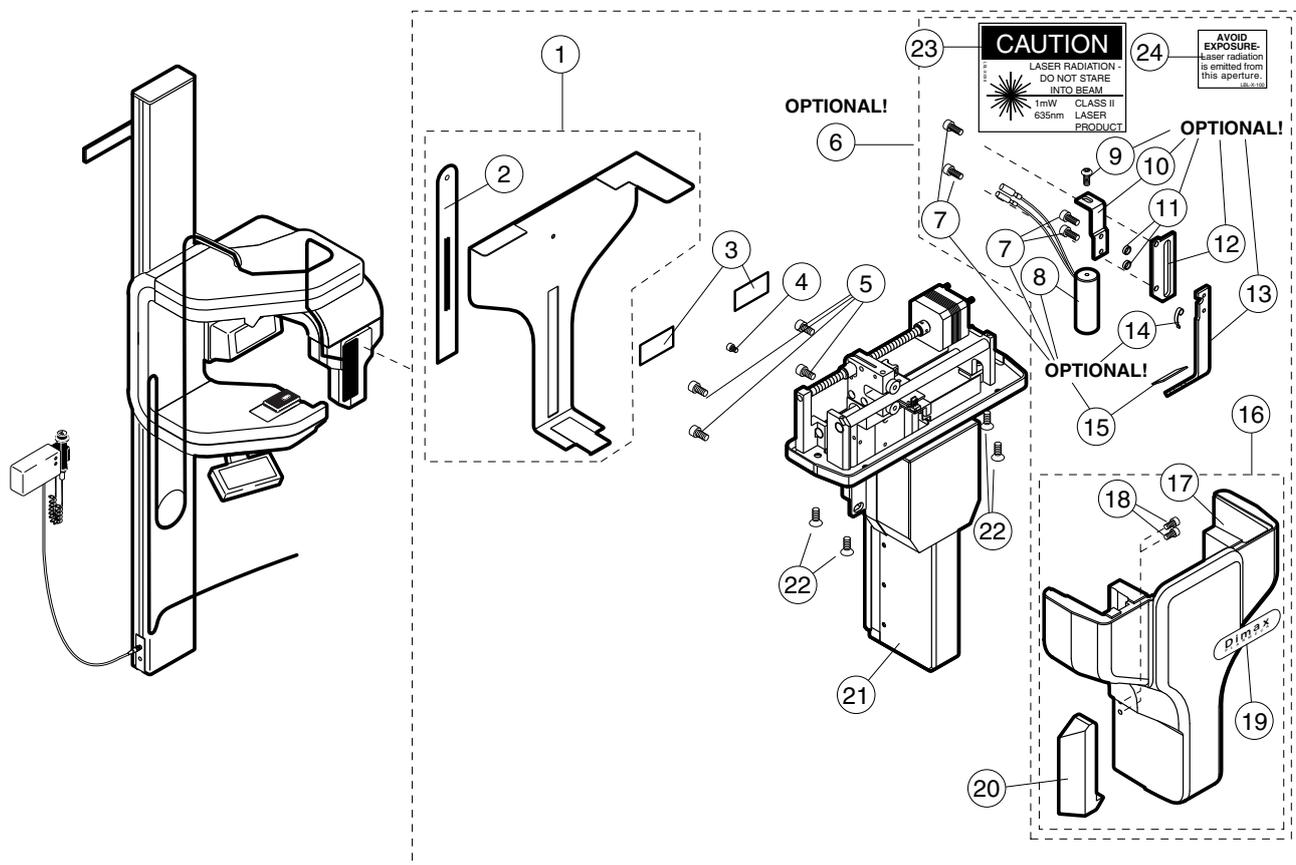
2.6 Sensor head



Ref.	Part no.	Description
1	00665402	<b>Cover assembly</b>
2	00620090	Label LBL-X-094
3	00006335	Screw M4x16 DIN 7984
4	00610006	Velcro tape
5	00002926	Screw M6x12 DIN 912
6	00665400	<b>Sensor head assembly</b>
7	00665401	<b>Sensor head cover assembly</b>
8	00004849	Screw M4x10 DIN 912
9	00665329	<b>Laser light assembly</b>
10	00626010	Screw 4x10 PT
11	00653190	Lamp plate
12	00652483	Spacing bush
13	00652476	Friction plate
14	00655148	Mirror bracket

Ref.	Part no.	Description
15	00654036	Leaf spring
16	00653194	Mirror
17	00655145	Sensor head cover
18	00620101	Label LBL-X-097
19	00620102	Laser caution label, USA (LBL-X-099)
20	00620103	Laser warning label, USA (LBL-X-100)

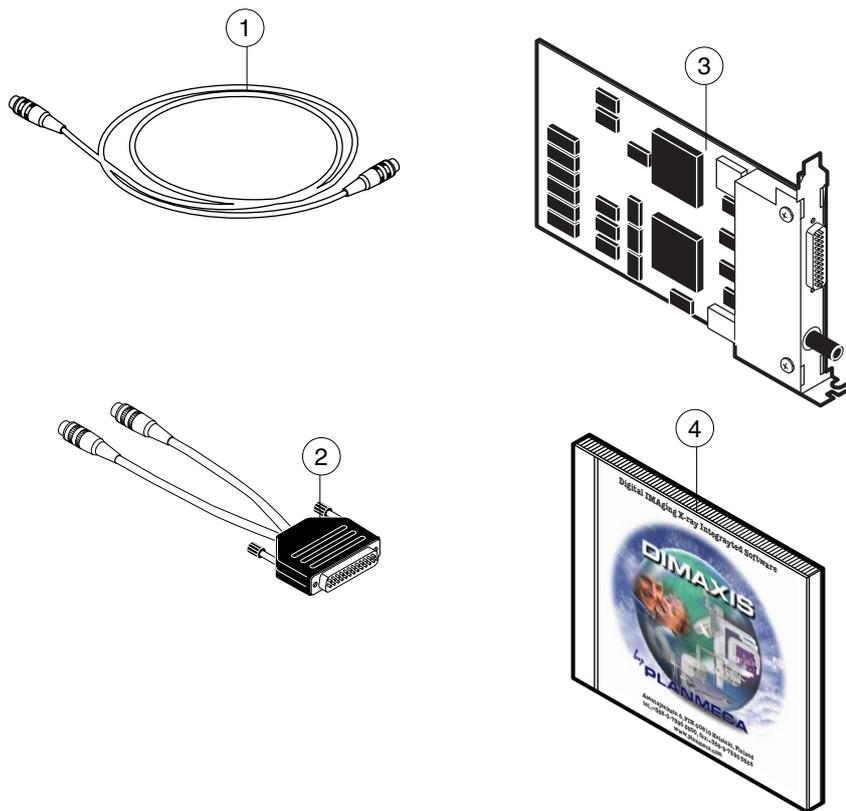
2.7 Ceph model sensor head



Ref.	Part no.	Description
1	00665410	<b>Ceph model cover assembly</b>
2	00620090	Label LBL-X-094
3	00610006	Velcro tape
4	00006335	Screw 4x16 DIN 7984
5	00002926	Screw M6x12 DIN 912
6	00665409	<b>Sensor head cover complete</b>
7	00004849	Screw M4x10 DIN 912
8	00665329	<b>Laser light assembly</b>
9	00626010	Screw 4x10 PT
10	00653190	Lamp plate
11	00652483	Spacing bush
12	00652476	Friction plate
13	00655148	Mirror bracket
14	00654036	Leaf spring

Ref.	Part no.	Description
15	00653194	Mirror
16	00665411	<b>Sensor head cover assembly</b>
17	00655154	Sensor head cover
18	00004849	Screw M4x10 DIN 912
19	00620101	Label LBL-X-097
20	00652486	Soft tissue filter
21	00665404	<b>Dimax ceph sensor head assembly</b>
22	00003322	Screw M6x12 DIN 7991
23	00620102	Laser caution label, USA (LBL-X-099)
24	00620103	Laser warning label, USA (LBL-X-100)

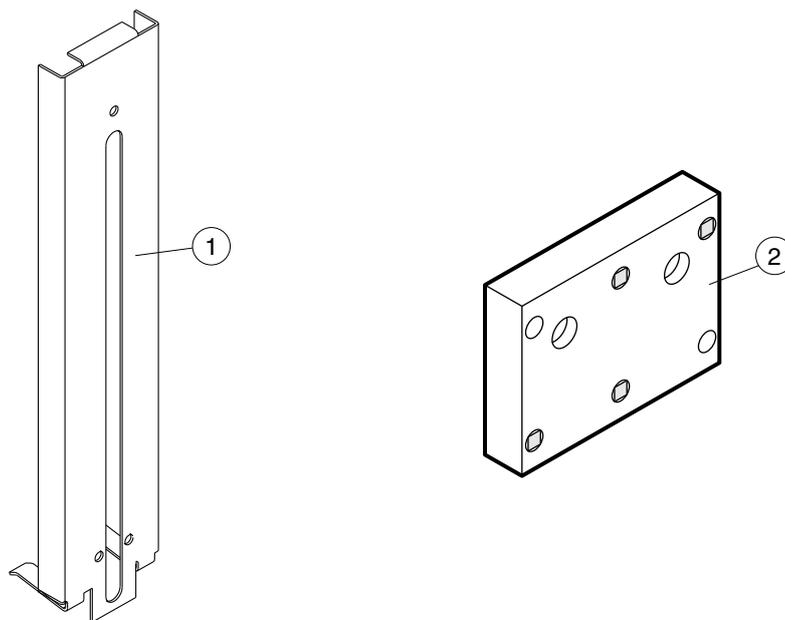
2.8 PC accessories



Ref.	Part no.	Description
1	00050880	Interconnection cable 10m
2	00637133	Planet grabber cable

Ref.	Part no.	Description
3	06311605	Image grabber 116-10-05
4	00665412	Dimaxis CD

2.9 Dimax alignment tools



Ref.	Part no.	Description
1	00653176	Dimax alignment tool adapter

Ref.	Part no.	Description
2	00665413	Calibration block



# Customer Service Information

# PLANMECA

## PLANMECA PROLINE X-RAY UNIT: SOFTWARE AND PCB COMPABILITY INFORMATION AND ORDER CODES

Publication Nr. 10013274  
Updated Nov 26, 2007

		GENERATOR PROCESSOR PCB (Software PG X.XX)		
<b>Order Code 00665070</b> PCB 105-10-06 Version B2- or later	<b>Order Code 00665069</b> PCB 105-10-03 Version -B6 or older	<b>Order Code 00665180</b> PCB 105-10-03 Version -C or later	<b>Order Code 00665181</b> PCB 105-10-03 with Adapter PCB 105-10-14 Version -C or later	<b>Order Code 10009814</b> PCB 105-10-28
<b>Order Code 00665070</b> PCB 105-10-06 Version -D or later	<b>PM 2002 CC / PM 2002 Proline EC/CC:</b> - PK0 1.67, order code: 00471010 - PK1 1.67, order code: 00471011 - PG1.69, order code: 00471088  <b>PM 2002 CC:</b> - PK2.51, order code: 00471087 - PG1.69, order code: 00471088  <b>PM 2002 Proline EC/CC:</b> - PK3.51, order code: 00471087 - PG1.69, order code: 00471088	No compatible PCBs	No compatible PCBs	No compatible PCBs
<b>Order Code 10002568</b> PCB 105-10-06 Version -L or later	No compatible PCBs	<b>PM 2002 / Proline/ EC/CC/ Film:</b> - PK6.00, order code: 10012715 - PG6.00, order code: 10012716  <b>PM2002/ Proline/ EC/CC/Dimax 2/3:</b> - PK5.16, order code: 10004422 - PG5.15, order code: 10004421	No compatible PCBs	No compatible PCBs
<b>Order Code 10009419</b> PCB 105-10-27	No compatible PCBs	<b>PM2002/ Proline /EC/CC/ Film:</b> - PK6.00, order code: 10012715 - PG6.00, order code: 10012716  <b>PM2002 / Proline /EC/CC/ Dimax 2/3:</b> - PK5.16, order code: 10004422 - PG5.15, order code: 10004421	No compatible PCBs	<b>Proline XC/EC Film:</b> - PK6.60, order code: 10011478 - PG6.53, order code: 10011479 <b>Proline XC/EC Dimax 2/3:</b> - PK5.60, order code: 10010375 - PG5.60, order code: 10010376

- **NOTE! Concerning codes 00471087 and 00471064.** When ordering software chips for units equipped with keyboard processor PCB code 105-10-06 Version K or earlier, the required software version must be given. If the required software is not known then the equipment must be described according to the above table. The spare parts department must be informed about the X-ray unit model and type (film/digital), sensor type (dimax1/dimax2 or 3), keyboard processor type and version, generator processor type and version.
- **NOTE!** Table shows all the possible PCB/ software/machine type combinations. Combinations that are not mentioned in the table are not possible. Planmecca does not guarantee a proper operation if older software version than the one mentioned in the table is used.

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