

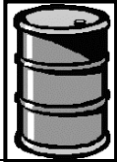



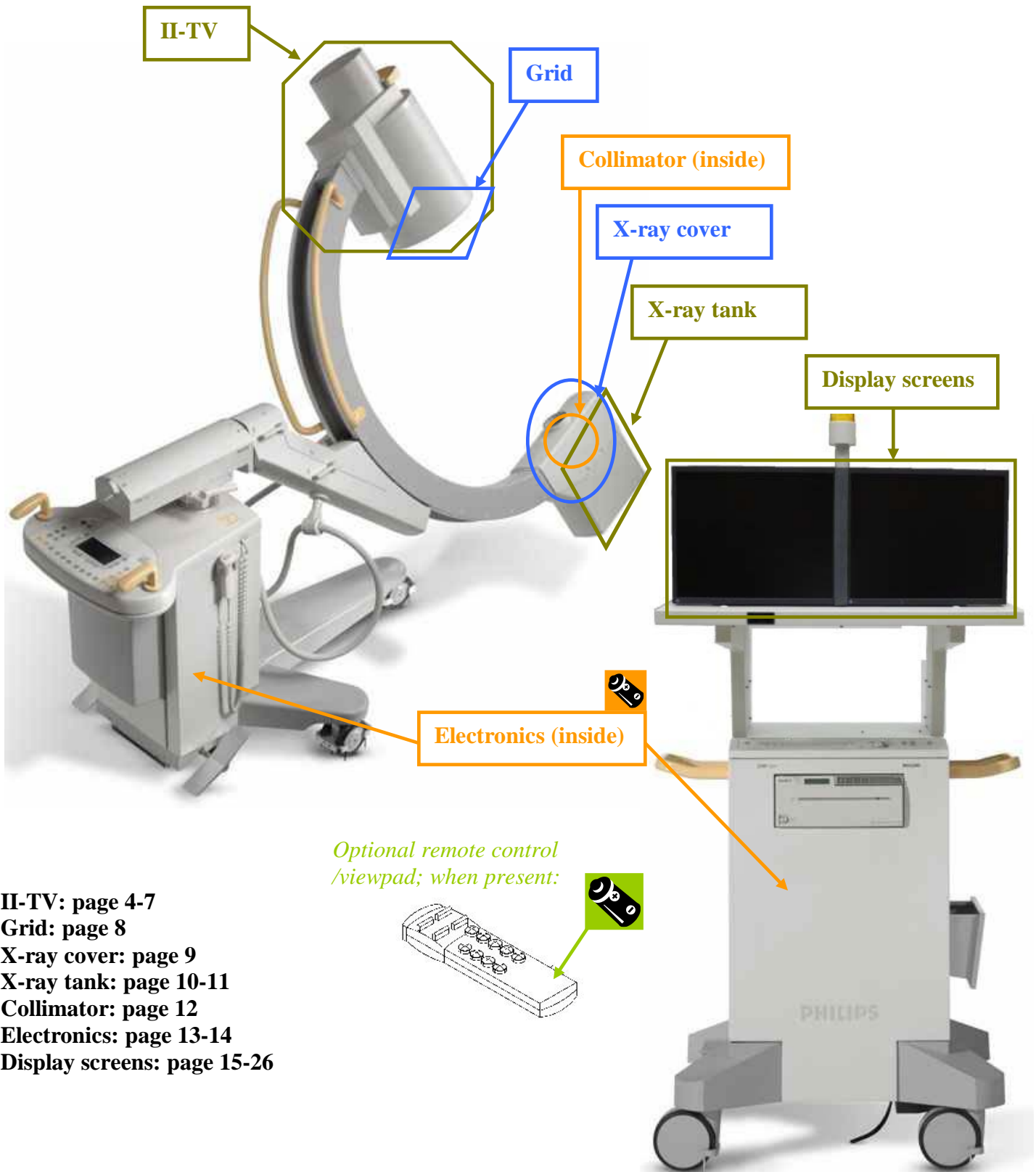


Product name:	BV Libra
Identification code	0718-022-001
Total weight (in Kg)	480 kg (approximately; dependent on specific configuration)
Producer/ Manufacturer	Name company: Philips Medical Systems
	Address: Veenpluis 6
	Zip code: 5684 PC Best
	Country: Netherlands
	Electronic info: http://www.healthcare.philips.com/us/about/sustainability/recycling/

Recycle Info	Items:	Location
Special attention 	<ul style="list-style-type: none"> Be aware of possibly contaminated system parts and materials! (biological hazard) For dismantling activities Treatment Facilities must consider the national requirements. For personnel that can come into contact with contaminated material, preventive measures pursuant to national requirements must be taken into account 	System parts that were in the patient environment, and that were not disinfected
	<ul style="list-style-type: none"> Removal of units / weights can cause the system to tilt! 	
	<ul style="list-style-type: none"> Removal of units / weights can cause unexpected movements of guidances! 	
	<ul style="list-style-type: none"> Release of brakes can cause unexpected movements of guidances! Brakes cannot prevent unexpected movements due to the removal of units /weights! 	
	<ul style="list-style-type: none"> High-voltage parts (e.g. capacitors) are marked with  	
	<ul style="list-style-type: none"> Before dismantling the vacuum II-Insert, drill a small hole to let air in the insert 	II-TV (page 4-7)
	<ul style="list-style-type: none"> Vacuum glass tube of X-ray tank can implode! 	X-ray tank (page 10-11)
	<ul style="list-style-type: none"> When present: take caution dismantling a CRT screen 	CRT screen (page 23-26)
Fluids / Gases 	Items: <ul style="list-style-type: none"> Transformer oil, type: Shell Diala 	X-ray tank (page 10-11)
Batteries  To be Removed	Type: Battery, 4x alkaline 1,5V [44 grams] (when option “remote control/viewpad” is present)	 (page 3)
	1x CR2450, 3.0 Volt, 6.2 gram LiMnO2 CR2032 3.0V Lithium coin cell of 3.2 gram (when option “Dell PC” is present)	Electronics (page 13-14)



<p style="text-align: center;">Hazardous</p>  <p style="text-align: center;">To be Removed</p>	Substances:	Location
	Lead (Pb) for X-ray shielding	II-TV (page 4-7) Grid (page 8) X-ray cover (page 9) X-ray tank (page 10-11) Collimator (page 12)
	Lead (Pb) for soldering	Electronics (page 13-14) Display screens (page 14-21)
	Cadmium (Cd) + Beryllium Oxide (BeO) inside the II-Insert on the glass output window	II-TV (page 4-7)
	Beryllium Copper (BeCu)	Electronics (page 13-14)
	Mercury (Hg) in switch on printed circuit board for systems delivered before September 2006	II-TV (page 4-7)
	Mercury (Hg) in LCD screens, when these LCD screens are present	LCD screens (page 15-22)

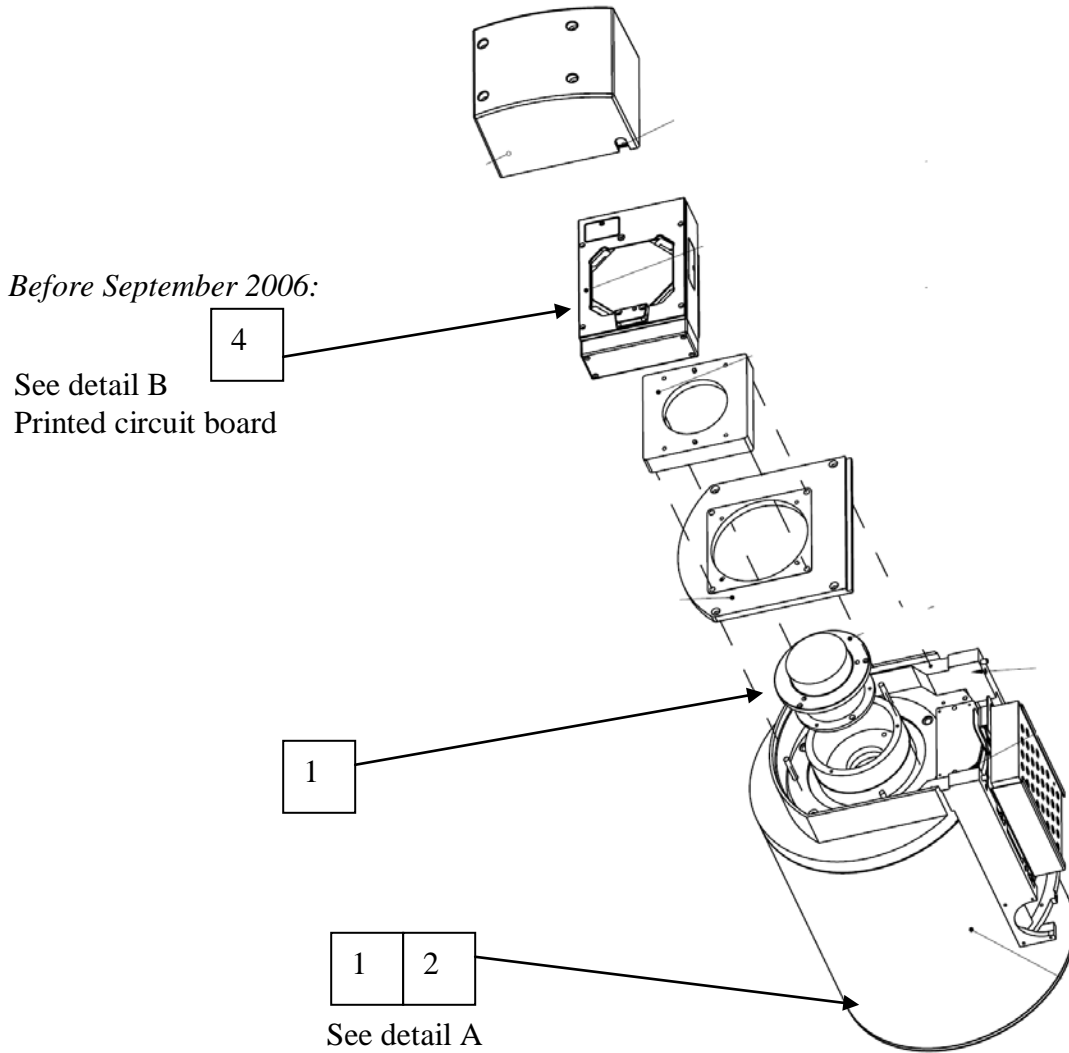
Note: to facilitate recycling, all plastic parts weighing > 50 grams are marked according to ISO11469 & ISO1043.



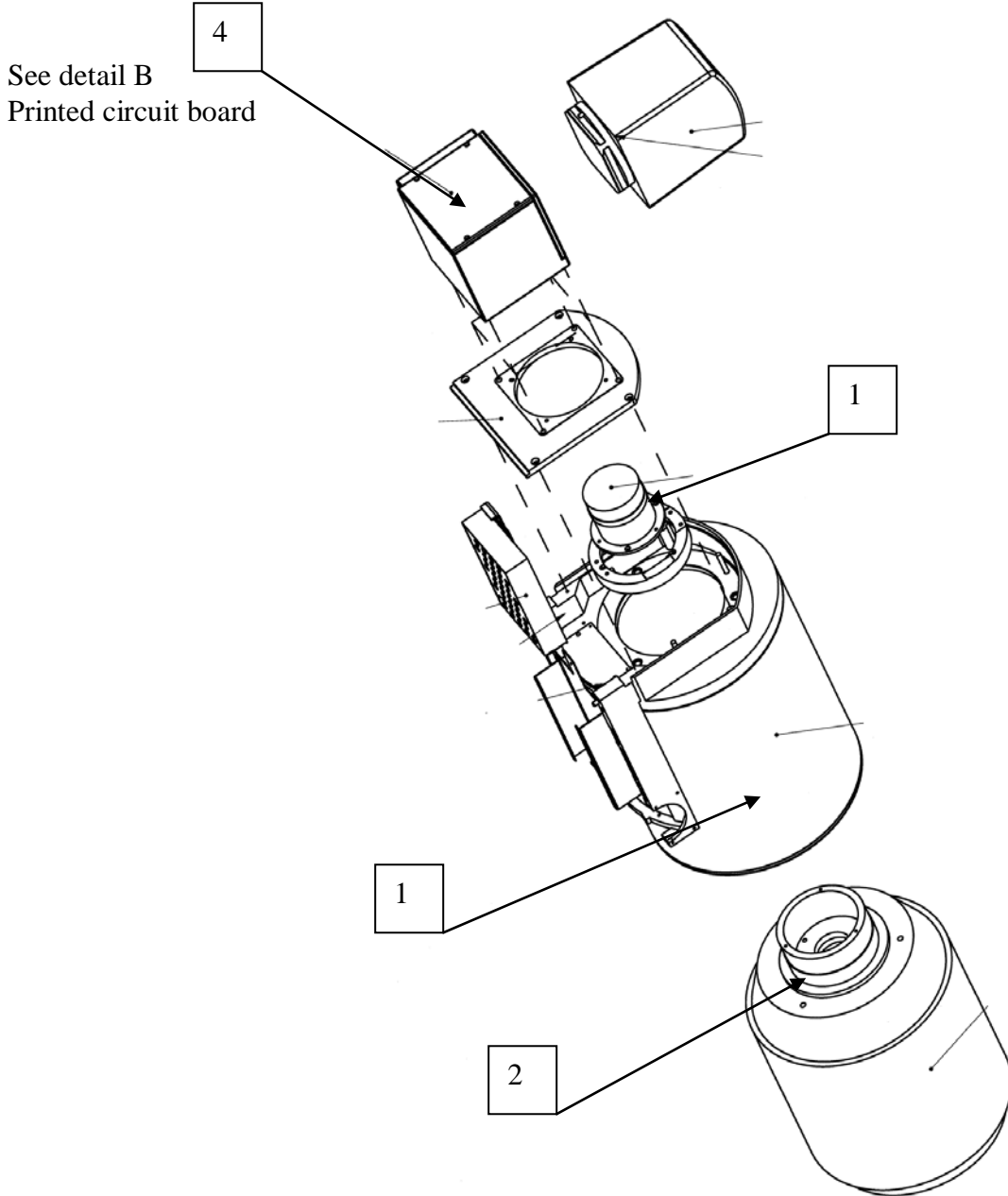
- II-TV:** page 4-7
- Grid:** page 8
- X-ray cover:** page 9
- X-ray tank:** page 10-11
- Collimator:** page 12
- Electronics:** page 13-14
- Display screens:** page 15-26

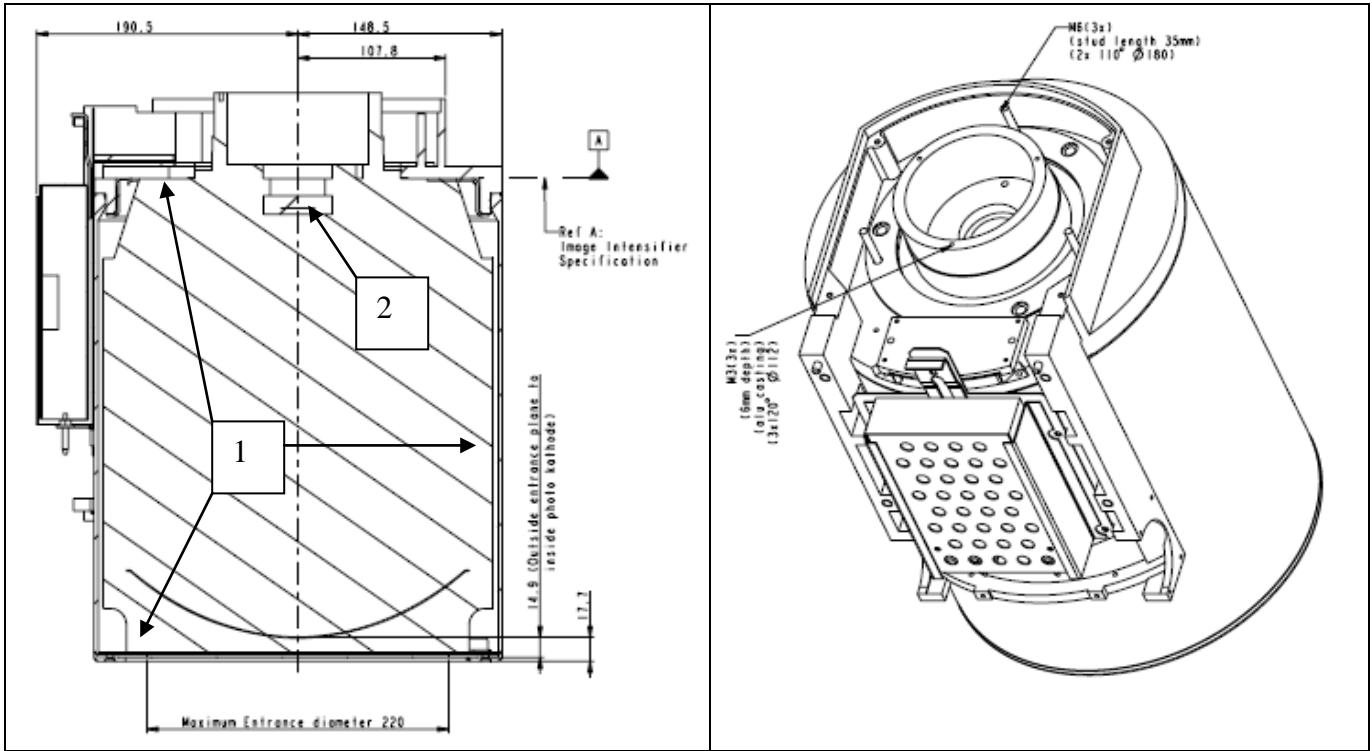
II-TV:

Recycle Info	Items:	Location
Special attention 	Before dismantling the vacuum II-Insert, drill a small hole to let air in the insert	
Hazardous 	Substances:	Location
To be Removed	Lead (Pb)	1, page 4-5
	Cadmium (Cd) + Beryllium Oxide (BeO) inside the II-Insert on the glass output window	2, page 4-5
	Mercury (Hg) in switch on printed circuit board for systems delivered before September 2006	4, page 4-5 + 7

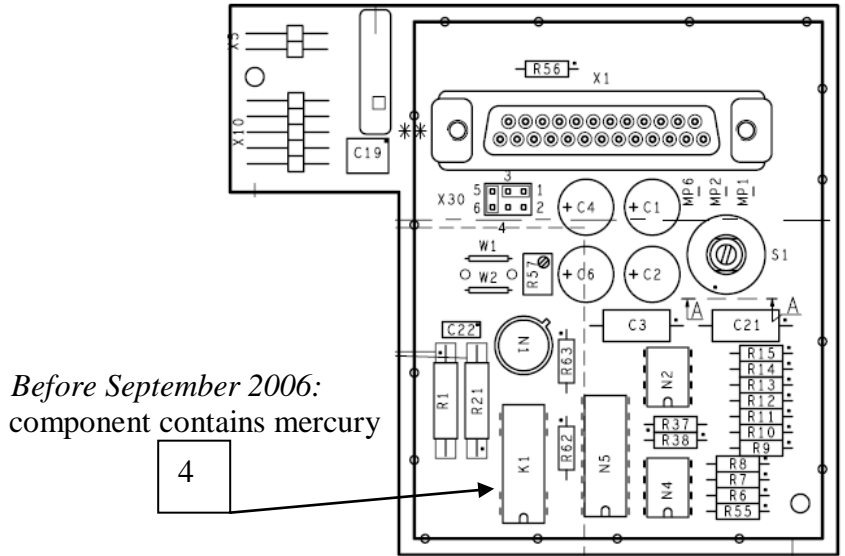


Before September 2006:

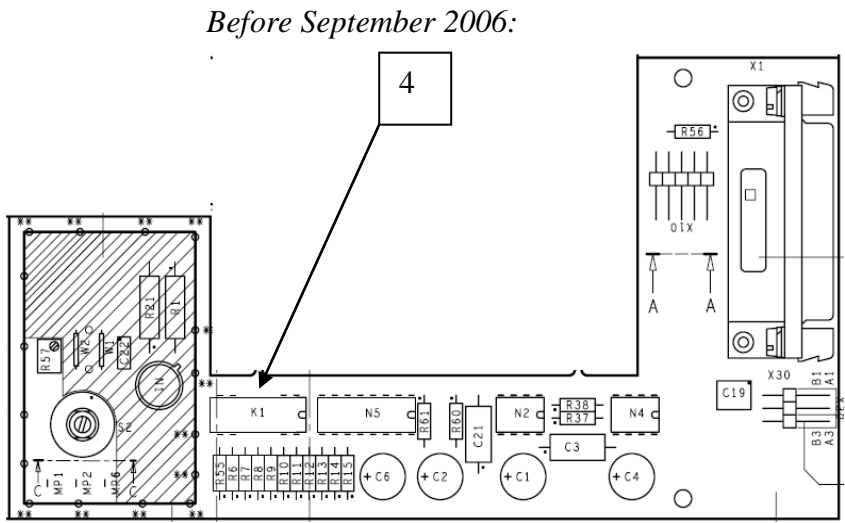




Detail A




Detail B printed circuit board 4522 167 02681 up and including 4522 167 02687



Detail B printed circuit board 4522 167 02431 up and including 4522 167 02439

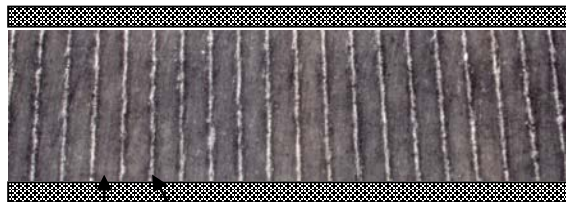
Grid:

Hazardous	Substances:	Location
 To be Removed	Lead (Pb 99,5%)	Enclosed between cover plates



Example larger and smaller grid (only 1 present in system)


Cross-section of grid:

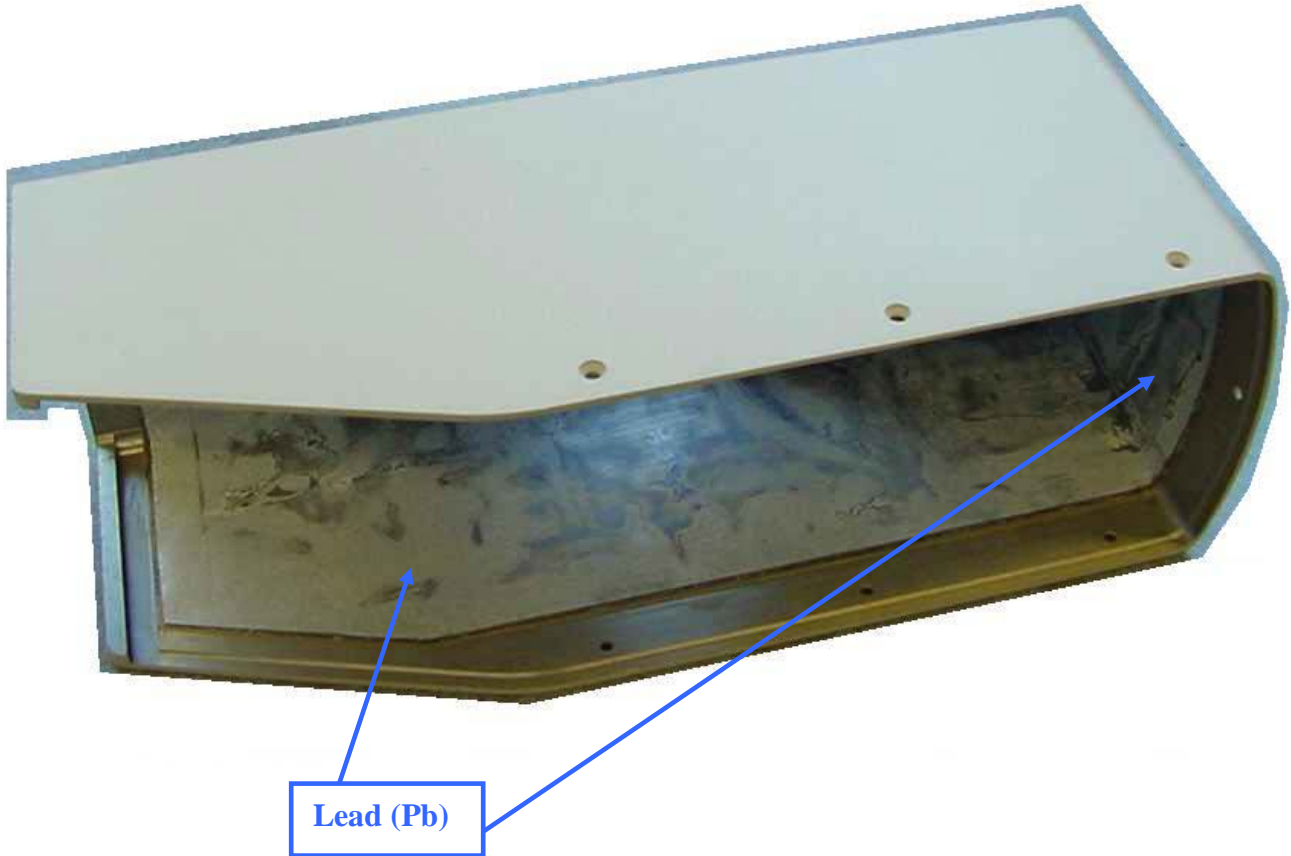


**Paper
Interspace
Material**


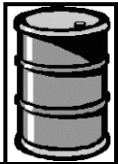

Lead

X-ray cover:

Hazardous	Substances:	Location
 To be Removed	Lead (Pb 99,5%)	Glued at inside; see photo below



X-ray tank:

Recycle Info	Items:	Location
Special attention 	<ul style="list-style-type: none"> Vacuum glass tube of X-ray tank can implode! 	See next figure 3 (2)
Fluids / Gases 	Items: <ul style="list-style-type: none"> Transformer oil, type: Shell Diala (This HighVoltage-transformer oil contains no PCBs) 	See next figure 1 (1)
Hazardous  To be Removed	Substances:	Location
	Lead (Pb)	See next figure 2 (1)
	Lead (Pb) / steel compound	See next figure 2 (2)
	Lead (Pb) as x-ray shielding	See next figure 3 (1)
	Lead (Pb) / steel compound	See next figure 4 (1)

steel, iron	iron, low alloy (<5%)	0,56	KG
	iron, high alloy (>5%)	0,36	KG
steel, iron		0,92	KG
nonferrous metals and alloys	aluminum, -alloy	5,87	KG
	copper, -alloy	0,052	KG
nonferrous metals and alloys		5,922	KG
glass / ceramics	glass	0,005	KG
glass / ceramics		0,005	KG
plastics / organic substances	oil	3,5	KG
	elastomer	0,53	KG
	thermoset	0,26	KG
	thermoplastic	0,22	KG
plastics / organic substances		4,51	KG
standard parts	other electronic powered devices	0,912	KG
	X-ray tubes	0,502	KG
	mounting parts, attaching part	0,091	KG
	printed circuit boards	0,04	KG
standard parts		1,545	KG
relevant materials	lead and -compounds (cables and Printed Circuit Boards excepted)	0,907	KG
relevant materials		0,907	KG
TOTAL:		13,809	KG

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 DocID: XDR054-090778

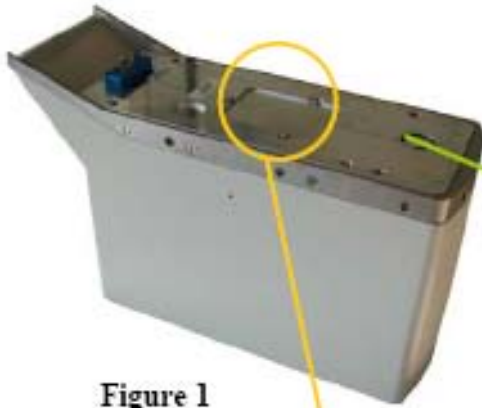


Figure 1

1



Figure 2

1



2



Figure 3

1



2




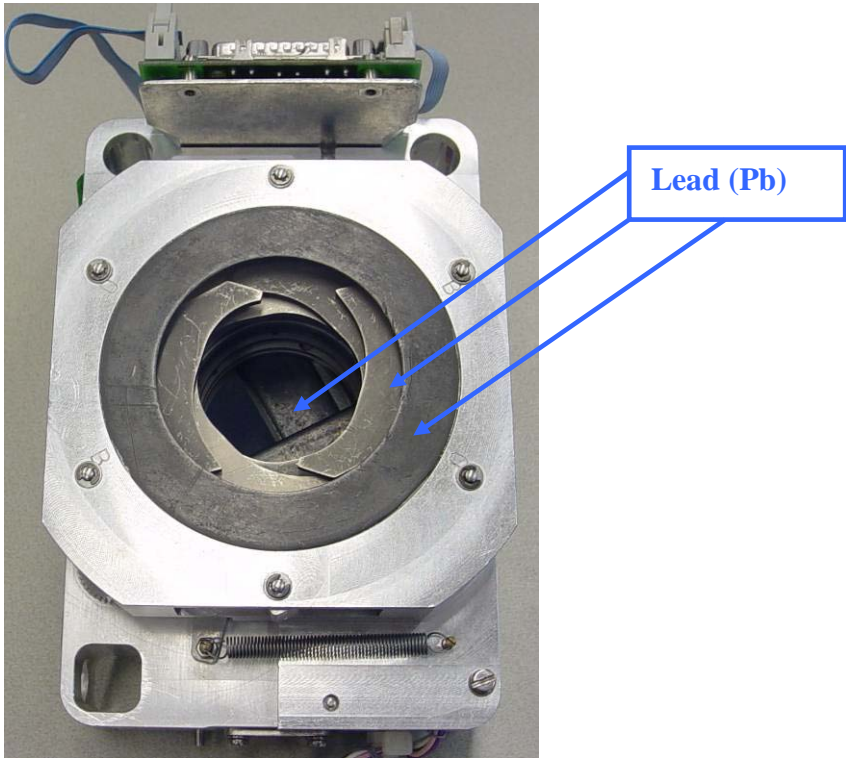
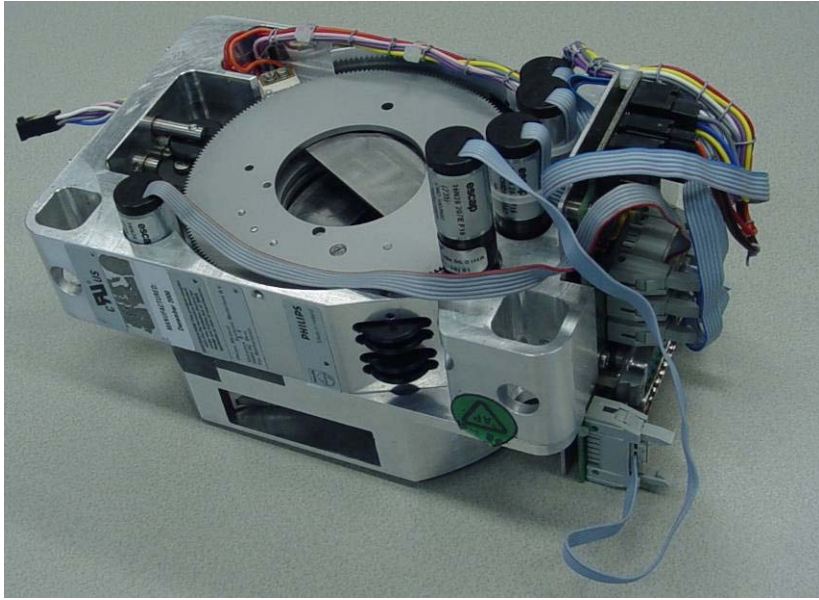
1



Figure 4




Collimator:

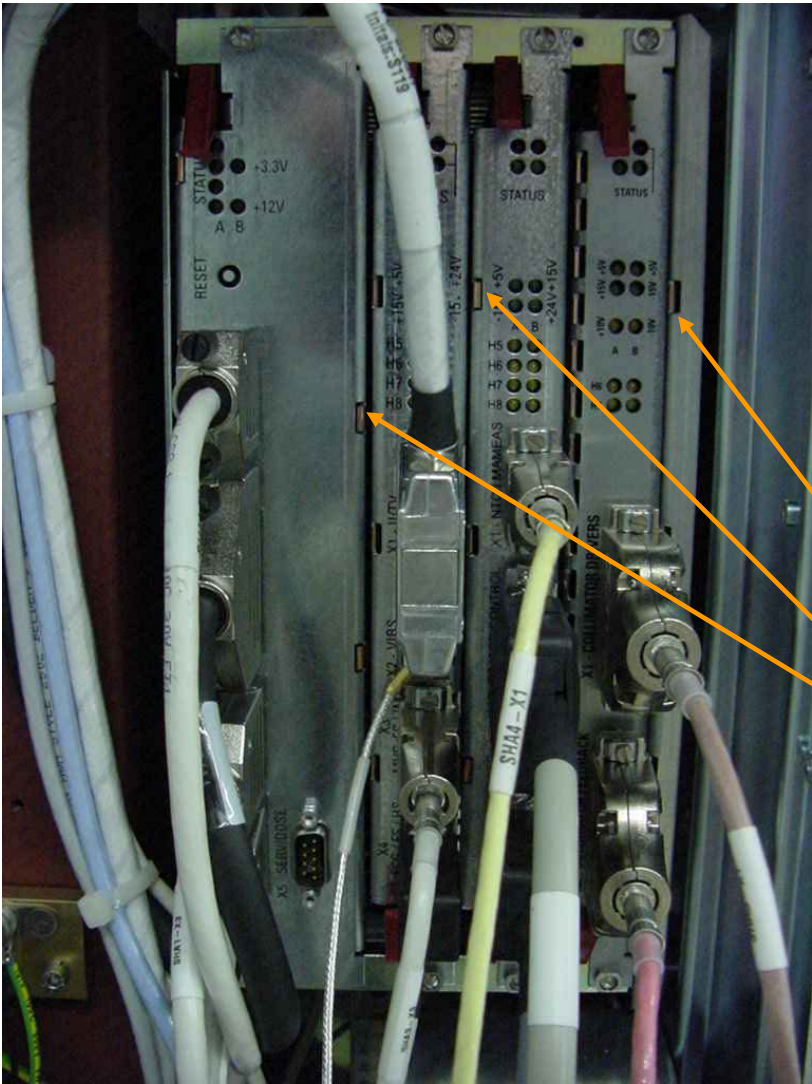
Hazardous	Substances:	Location
 To be Removed	Lead (Pb 99,5%); 0,42 kg	Ring of lead, lead on shutters and wedges; See photo below.



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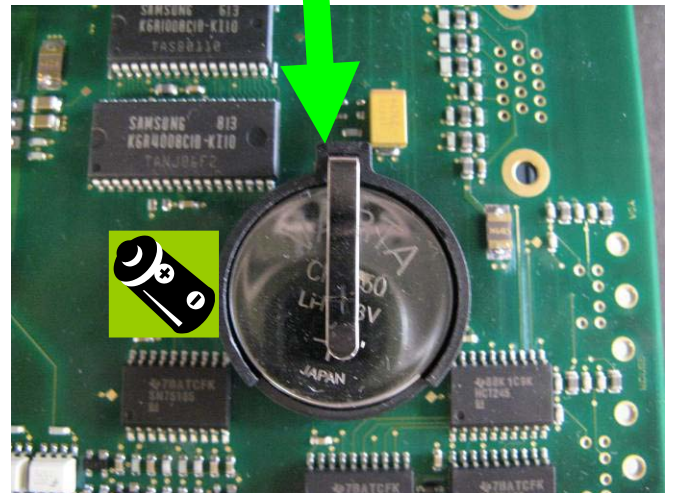
Electronics:

Batteries  To be Removed	Type: 1x CR2450, 3.0 Volt, 6.2 gram LiMnO2 CR2032 3.0V Lithium coin cell of 3.2 gram (when option “Dell PersonalComputer” [Philips-indication: Viewforum hardware] is present)	Location See picture on page 14  In Dell PC when present
Hazardous  To be Removed	Substances: BerylliumCopper (BeCu) Lead (Pb) is present in the soldering of some PCBs	Location Contact springs between hardware-racks; see photo below. PCBs (PrintedCircuitBoards)



BerylliumCopper (BeCu) contact springs


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 DocID: XDR054-090778



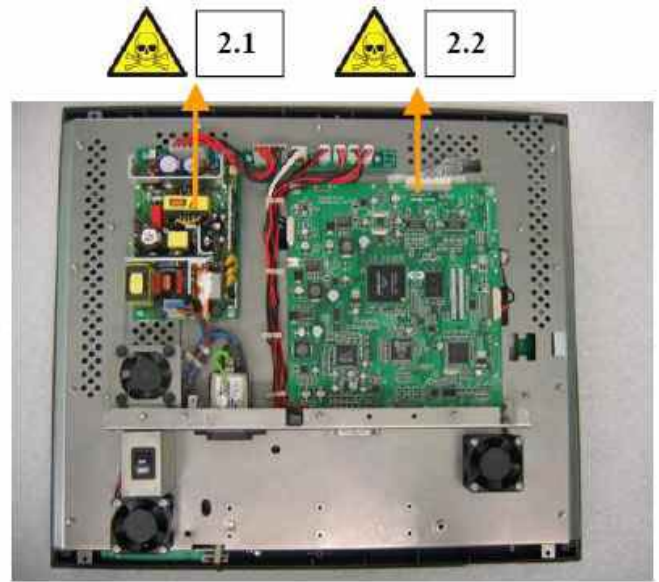
Display screens:

FOLLOWING PAGES PROVIDE INFORMATION ON VARIOUS SCREENS POSSIBLY PRESENT IN THE SYSTEM.

LCD screen FIMI MCL180-L / 9919-320-5089x | PAGE 1 of 2


Hazardous  To be Removed	Substances:		Location
	<i>Type</i>	<i>Quantity</i>	
	Cd	0	
	Hg	21 mg max. (*)	Next figure (1)
	Pb	Lead is present in the soldering process of PCBs	Next figure (2.x)
	Cr ⁶⁺	0	
	PBB	0	
	PBDE	0	
	(*) Mercury is present in Backlight lamps: 3.5mg x 6 lamps		

LCD screen FIMI MCL180-L / 9919-320-5089x | PAGE 2 of 2

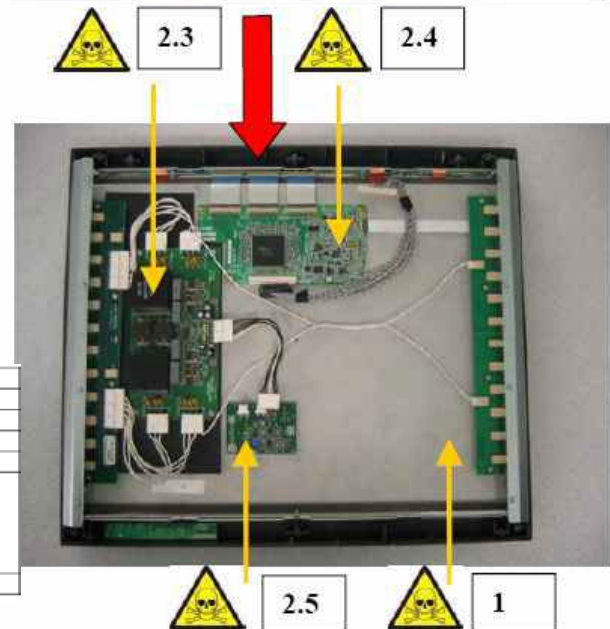
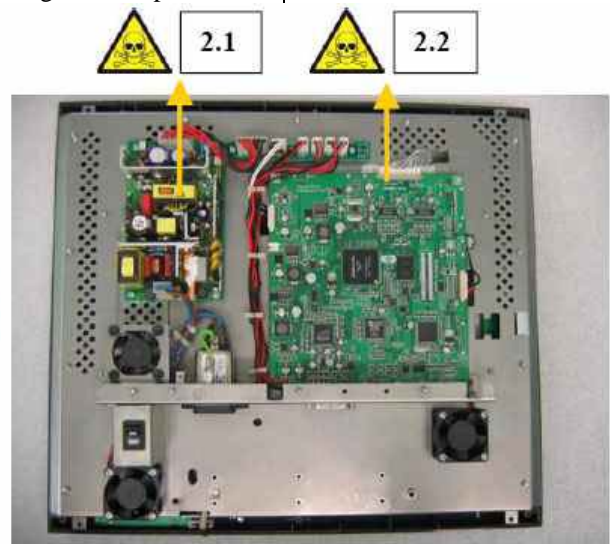


Material		
Fe	6.0 kg	(3.4 kg in the pedestal)
Al	0	-
Cu	0.1 kg	Cables
Plastics	1.5 kg	(0.4 kg in the pedestal)
Boards (S² > 10cm²)	96 cm ² / 260 g 320 cm ² / 230 g 144 cm ² / 66 g 72 cm ² / 54 g	S.M.P.S. (item 2.1 in the picture) Logic Board (item 2.2 in the picture) Inverter (item 2.3 in the picture) LCD Driver (item 2.4 in the picture)
CD	3 kg	18"

LCD screen FIMI MCL180-HB / 9919-320-5088x



Hazardous  To be Removed	Substances:		Location
	Type	Quantity	
	Cd	0	
	Hg	36mg max. (*)	Figure below (1)
	Pb	Lead is present in the soldering process of PCBs	Figure below (2.x)
	Cr ⁶⁺	0	
	PBB	0	
	PBDE	0	

(*) Mercury is present in Backlight lamps: 3mg x 12 lamps



Material		
Fe	2.3 kg	-
Al	0	-
Cu	0.1 kg	Cables
Plastics	1 kg	-
Boards (S ² > 10cm ²)	96 cm ² / 260 g	S.M.P.S. (item 2.1 in the picture)
	320 cm ² / 230 g	Logic Board (item 2.2 in the picture)
	80 cm ² / 180 g	Inverter (item 2.3 in the picture)
	100 cm ² / 50 g	LCD Driver (item 2.4 in the picture)
	46 cm ² / 40 g	PCB Backlight Stabilization (item 2.5 in the picture)
LCD	2.7 kg	18"

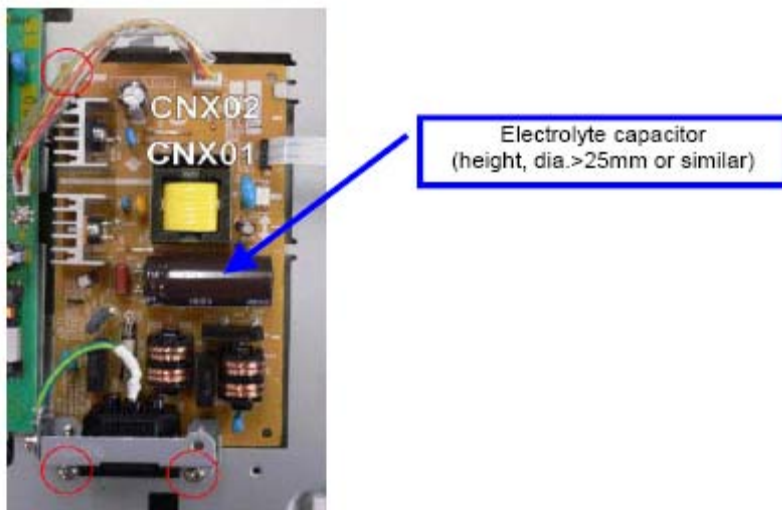
LCD screen EIZO L568-K & S1721F-BK / 9896-001-9338x

Special attention 	<p style="text-align: center;">Type:</p> <p><u>Do not touch the sharp edge of the chassis.</u> It can result in injury.</p> <p>Discharge the electricity from the capacitor before <u>disassembling PCB-POWER.</u> When removing the PCB-POWER, the electricity may still remain in the capacitor. Touching PCB-Power carelessly may cause an electric shock.</p>	Location Chassis Capacitor
Hazardous  To be Removed	<p style="text-align: center;">Substances:</p> <p>Mercury (Hg)</p> <p>Lead (Pb)</p>	Location Backlight lamps See diagram

NAME	Components to be selected in accordance with WEEE directive	Cadmium	Hexavalent chromium	Lead	Mercury	PBB
ASSY-STAND	/	No	No	Yes*	No	No
ASSY-PCB-POWER	Electrolyte capacitor (see Fig.1) (height, dia.>25mm or similar)	No	No	No	No	No
ASSY-PRINTED-WIRING-BOARDS	Printed wiring boards Electronic components	No	No	Yes*	No	No
ASSY-UNIT-LCD	LCD Module/Backlight	No	No	Yes*	Yes*	No
AC-CORDS/CABLES	External electric cables	No	No	Yes*	No	No
OTHERS	/	No	No	No	No	No

- [Notes]**
- 1. "Yes*" stands for "Contained and exempted from RoHS requirements"
 - 2. "No" stands for "Not contained"

■ [Fig.1]



ASSY-PCB-POWER

Disassembly of EIZO monitor (take all the steps in this order):

PANEL-REAR Disassembly

When removing PANEL-REAR, do not touch the diaphragm of the speaker.

Remove 5 screws (b) [Item 112] on PANEL-REAR.

Unhook the 9 hooks with special tool to remove the PANEL-REAR.



○:b [Item 112] □:Hook

Detailed description of removing PANEL-REAR:
Symmetrical

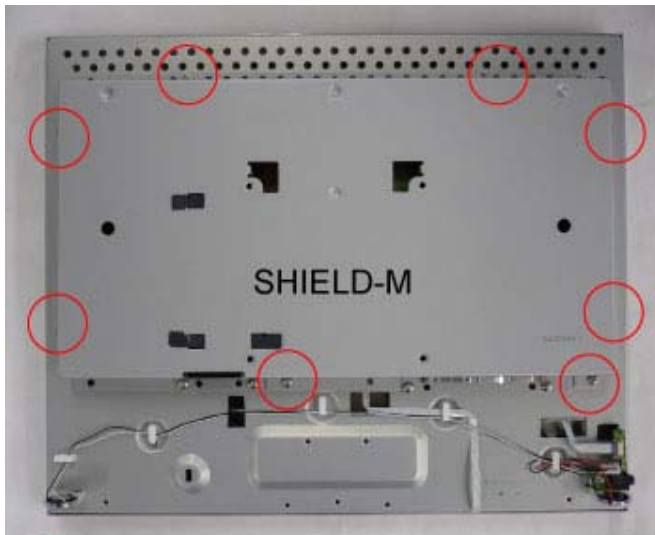


Tool for removing panel protector (SHEET-J:05D21403A1)

Uphold the bottom of the PANEL-REAR a bit, slide the tool for removing panel protector upward and remove 3 hooks on the side. Remove the PANEL-REAR symmetrically with the tool for removing panel protector. Remove the PANEL-REAR with attention to the 9 hooks on the top and the sides.

SHIELD-M Disassembly

Remove 8 screws (c) [Item 111] to remove the SHIELD-M.



○:c [Item 111]

ASSY PCB POWER Disassembly

Discharge the electricity from the capacitor before disassembling PCB-POWER. When removing the PCB-POWER, the electricity may still remain in the capacitor. Touching PCB-Power carelessly may cause an electric shock. Discharge the electricity completely by following the procedure:

Connect the 15 ohm resistor (rating over 5W) between chassis and jumper of PCB POWER; JX01(+15V) for over 1 second because of discharging, before you take out or insert the harness between PCB POWER which has been charged the power and other PCBs.

The electrolytic capacitor functions to generate "restart voltage". The electricity is sometimes recharged without being applied any voltage after electric discharge.

Before touching, make sure that the electrolytic capacitor is discharged completely.

Disconnect 2 harnesses from the connectors (CNX01 and CNX02) on the ASSY PCB POWER.

Remove 3 screws (d) [Item 111] to remove the ASSY PCB POWER.



○ :d [Item 111]

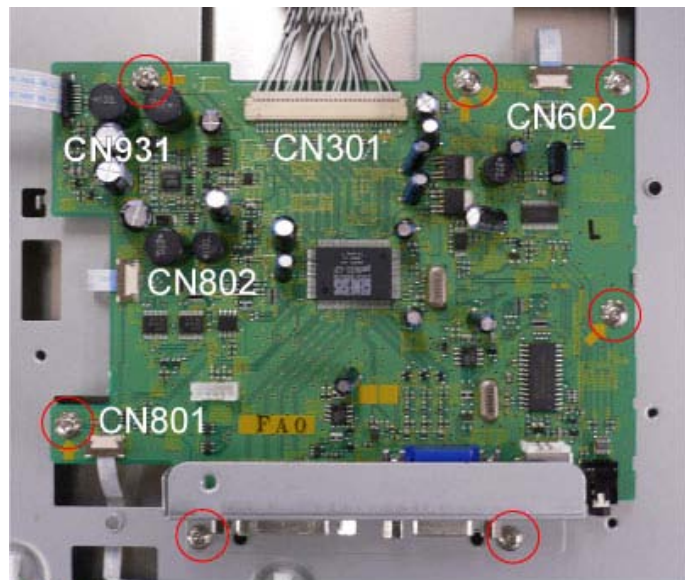
ASSY PCB MAIN Disassembly

Disconnect 5 harnesses from the connectors (CN301, CN602, CN801, CN802, CN931).

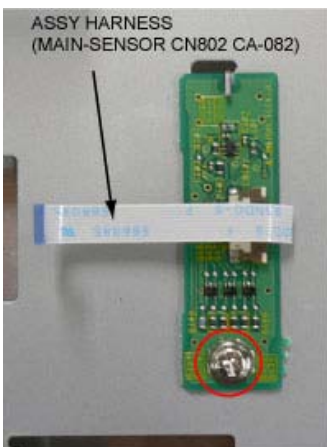
Remove 7 screws (e) [Item 111] on the ASSY PCB MAIN to remove ASSY PCB MAIN.

Remove 1 screw (f) [Item 111] on the cleft PCB of ASSY PCB MAIN.

Remove ASSY HARNESS (MAIN-SENSOR CN802 CA-082).



○ :e [Item 111]



○ :f [Item 111]

ASSY PCB INV Disassembly

Disconnect 5 harnesses from the connectors (CN701~CN705) on the ASSY PCB INV.

Remove 1 screw (g) [Item 111] to remove the ASSY PCB INV.



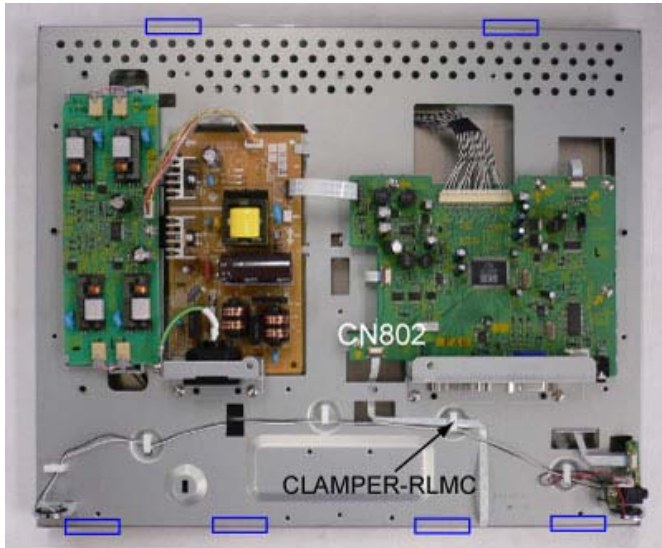
○ :g [Item 111]

ASSY FRONT Disassembly

Disconnect 1 harness from the connector (CN802) on the ASSY PCB MAIN.

Unclasp CLAMPER-RLMC.

Remove hook (6 hooks in total) on ASSY FRONT and remove ASSY FRONT.



▭ :Hook

BASE Disassembly

Disconnect a connector (CN301) on ASSY PCB MAIN and 4 connectors (CN701, CN702, CN703, CN704) on ASSY PCB INV.

Remove 4 screws (h) [Item 24] on the side of the BASE to remove the BASE.



○ :h [Item 24]

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UNIT LCD Disassembly

Remove ASSY HARNESS (ASSY MAIN-PANEL CN301 CA-013).



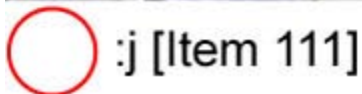
ASSY PCB SW Disassembly

Remove ASSY PCB SW from ASSY FRONT.
Disconnect 1 harness from the connector (CN851) and remove ASSY HARNESS (MAIN-SW CN801 CA-081).
Remove KNOB-SW from ASSY FRONT.



ASSY PCB JACK Disassembly

Disconnect 2 harnesses from the connectors (CN603, CN605).
Remove 1 screw (j) [Item 111] on ASSY PCB JACK to remove ASSY PCB JACK.

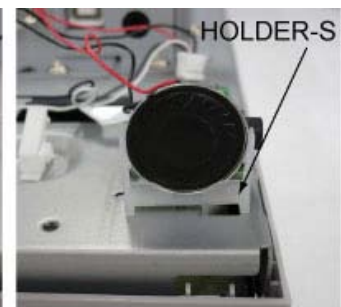
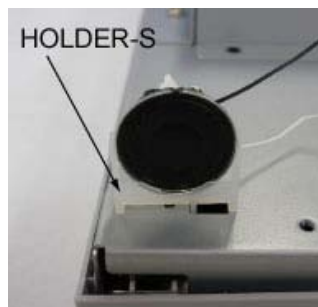
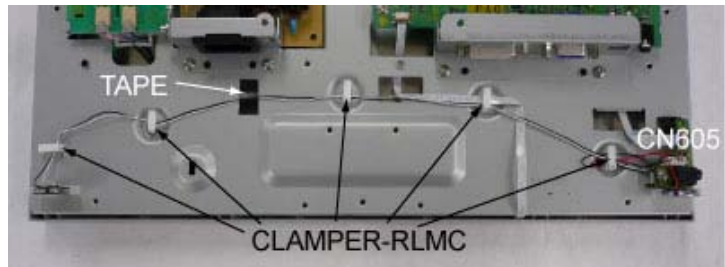


SPEAKER Disassembly



When you work with SPEAKER, please comply strictly with followings.

- Do not touch the diaphragm of the speaker.
- Do not draw speakers mutually, and do not touch the speaker with other speaker.
- Do not draw or touch the speaker to BASE and metallic parts.

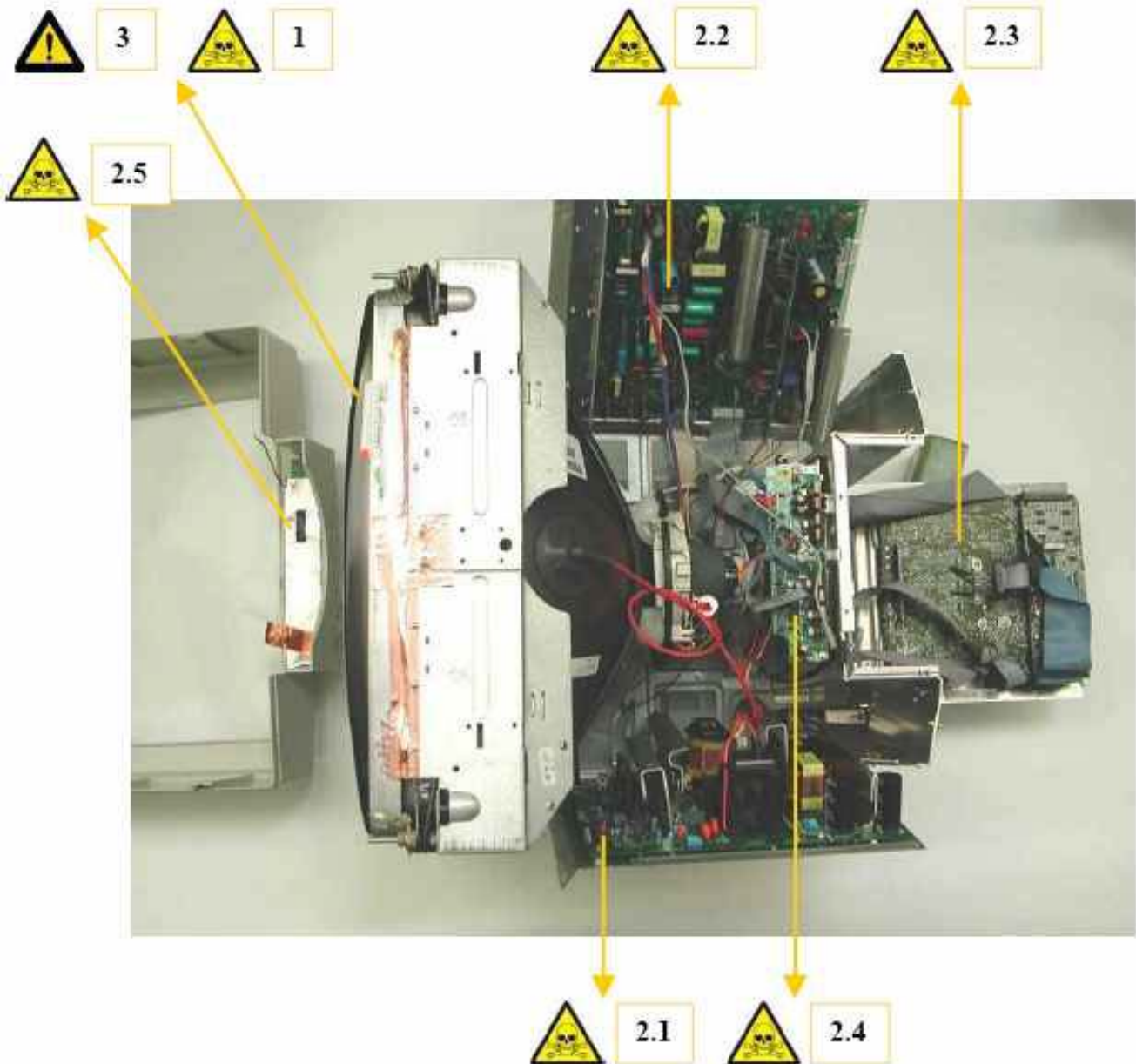
Unclasp 5 CLAMPER-RLMC and remove TAPE.
Disconnect 1 harness from the connector (CN605).
Remove SPEAKERS from HOLDER-S.



CRT screen FIMI TG17FM-DS / 9896-010-0299x | PAGE 1 of 2

Hazardous  To be Removed	Substances		Location
	Type	Quantity	
	Cd	0	
	Hg	0	
	Pb	- Lead is present in the CRT glass - Lead is present in the soldering of PCBs	Next figure (item 1) Next figure (item 2.x)
	Cr ⁶⁺	0	
	PBB	0	
	PBDE	0	
Special attention 	Item		Location
	<p>When handling or disposing of a CRT, you must take steps to avoid creating an implosion hazard for you or your trash removal service. The most simple and safe method to make the tube safe is to identify the small sealed glass nib at the far back of the tube (this may be obscured by the electrical connector) and then (while wearing safety glasses and gloves) filing a small nick across this and then to break it off using a pair of pliers. A loud sucking sound will be heard as the air enters the tube, releasing the vacuum. One must be very cautious not to break the neck of the tube when it is evacuated since there is no plastic coating preventing shattering of the glass. High vacuum and high voltage can be dangerous.</p>		Next figure (3)



CRT screen FIMI TG17FM-DS / 9896-010-0299x | PAGE 2 of 2



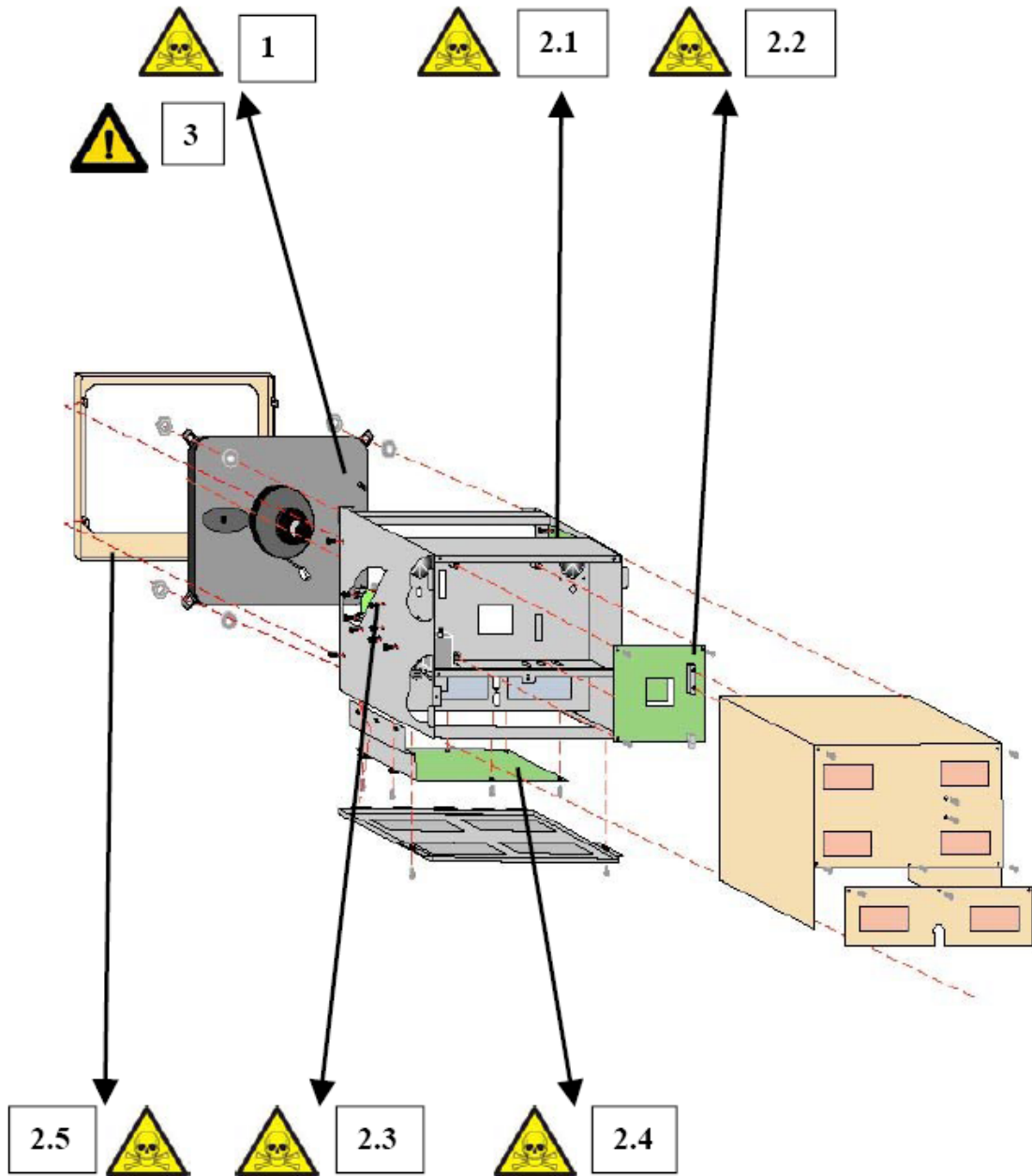
Material (kg)		
Fe	2.5 kg	-
Al	2.0 kg	-
Cu	1.3 kg	Cables
Plastics	4.4 kg	-
Boards (S ² > 10cm ²)	cm ² 700 / 1860 g cm ² 650 / 1060 g cm ² 450 / 660 g cm ² 90 / 180 g cm ² 180 / 160 g cm ² 30 / 30 g	Power Supply (item 2.1 in the picture) Deflection Circuits (item 2.2 in the picture) Video Logic Board (item 2.3 in the picture) Magnetometer (item 2.4 in the picture) CRT Board (not visible in the picture) Keyboard (item 2.5 in the picture)
CRT	10.6 kg	21"

Title: Recycling passport BV Libra 0718-022-001
DocID: XDR054-090778

CRT screen FIMI FE17B / 9896-010-0296x PAGE 1 of 2

Hazardous  To be Removed	Substances		Location
	Type	Quantity	
	Cd	0	
	Hg	0	
	Pb	- Lead is present in the CRT glass - Lead is present in the soldering of PCBs	Next figure (item 1) Next figure (item 2.x)
	Cr ⁶⁺	0	
	PBB	0	
	PBDE	0	
Special attention 	Item		Location
	<p>When handling or disposing of a CRT, you must take steps to avoid creating an implosion hazard for you or your trash removal service. The most simple and safe method to make the tube safe is to identify the small sealed glass nib at the far back of the tube (this may be obscured by the electrical connector) and then (while wearing safety glasses and gloves) filing a small nick across this and then to break it off using a pair of pliers. A loud sucking sound will be heard as the air enters the tube, releasing the vacuum. One must be very cautious not to break the neck of the tube when it is evacuated since there is no plastic coating preventing shattering of the glass. High vacuum and high voltage can be dangerous.</p>		Next figure (3)

CRT screen FIMI FE17B / 9896-010-0296x | PAGE 2 of 2



Material (kg)		
Fe	6.9 kg	-
Al	1.0 kg	-
Cu	1.0 kg	Cables
Plastics	0.35 kg	-
Boards (S ² > 10cm ²)	cm ² 77 / 80 g cm ² 550 / 360 g cm ² 100 / 280 g cm ² 788 / 1720 g cm ² 45 / 50 g	Raster Correction (item 2.1 in the picture) Video + CRT Board (item 2.2 in the picture) Mains Harmonic Reduction (item 2.3 in the picture) Mother Board (item 2.4 in the picture) Keyboard (item 2.5 in the picture)
CRT	7.7 kg	17"

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