

# Plasma Display Panel – 42 HD

Type D7

BeoVision 4 – 42 EU, type 896x from serial no. 18390228

BeoVision 4 – 42 US, type 8956 from serial no. 18406005

BeoVision 5 – 42 EU MKIII, type 891x from serial no. 18380842

BeoVision 5 – 42 US MKII, type 8488 from serial no. 18394773

Service Manual

English

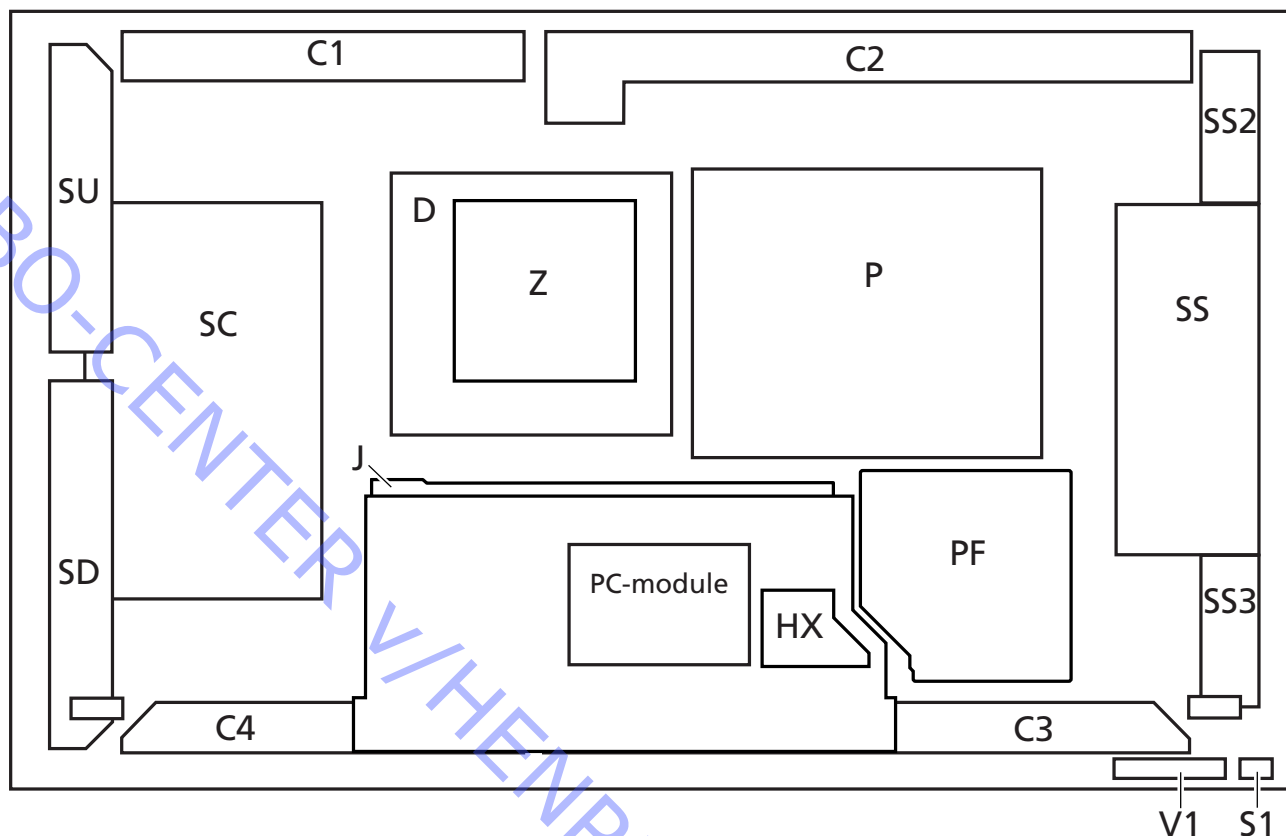
*German, French, Italian, Spanish, Danish and Dutch versions  
are available in the Retail System*



*This Service Manual must be returned  
with the defective parts/back-up suitcase !*

ABO-CENTER V/HENRIKSENS ELEKTRONIK

Oversigt over moduler, Plasma Display Panel (PDP)



- |    |                                 |     |                            |
|----|---------------------------------|-----|----------------------------|
| C1 | Data Drive (Upper left)         | SC  | Scan Out                   |
| C2 | Data Drive (Upper center)       | SD  | Scan Connection (Lower)    |
| C3 | Data Drive (Upper right)        | SS  | Sustain Out                |
| C4 | Data Drive (Lower right)        | SS2 | Sustain Connection (Upper) |
| D  | Digital Signal Processor        | SS3 | Sustain Connection (Lower) |
| HX | PC Type Input Terminal          | SU  | Scan Connection (Upper)    |
| J  | Slot Interface & SYNC processor | S1  | Power switch               |
| P  | Power Supply                    | V1  | Front SW & Remote receiver |
| PF | Line Filter                     | Z   | Audio Out                  |

## Udførelse af service

### Serviceeftersyn

PDP'en må kun efterses af kvalificeret teknisk personale.

Hvis det ikke er muligt at lokalisere fejlen, eller hvis fejlen ikke kan afhjælpes ved at udskifte reservedele, skal det danske servicecenter kontaktes for teknisk support.

### Håndtering

PDP'en skal altid placeres lodret for at undgå beskadigelse.

Der er stor fare for at beskadige PDP'en, hvis den placeres i vandret stilling.

PDP'en skal så vidt muligt placeres i servicestanden.

### Rengøring af produktet

*Brug aldrig sprit eller andre opløsningsmidler til rengøring af produktet!*

Brug hvide handsker for at undgå at plette kontrastskærmen.

Tør støv af overfladerne med en tør, blød klud eller en mikrofiberklud. Fedtpletter eller vanskeligt snavs fjernes med en blød, fnugfri, grundigt opvredet klud dyppet i en vandopløsning med nogle få dråber mildt vaskemiddel, f.eks. et opvaskemiddel.

For at sikre det bedst mulige skærbillede skal du sørge for at undgå striber eller spor af rengøringsmidlet på skærmen.

### Burn-in

Der kan opstå burn-in på PDP'en, hvis der vises et still-billede i mere end ca. 30 minutter.

### Advarsel

#### Statisk elektricitet

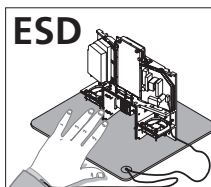


Statisk elektricitet kan ødelægge produktet.

Antistatisk serviceudstyr.

Der skal altid bruges antistatisk serviceudstyr, når produktet demonteres, eller modulerne håndteres.

Følg instruktionerne i vejledningen, og brug ESD-måtten både til de gamle og nye moduler.



Bemærk!

Når der kræves netspænding på fjernsynet, skal tilslutningen mellem PDP'en og ESD-måtten slås fra.

Chassiset eller modulerne skal altid være tilsluttet det antistatiske serviceudstyr eller placeret i en ESD-sikker pose.

#### Symbol for sikkerhedskomponenter



Når der udskiftes komponenter med dette symbol, skal der benyttes den samme type – også de samme værdier for ohm og watt.

Den nye komponent skal monteres på samme måde som den komponent, der udskiftes.

## Fejlfinding

### Handlinger før demontering af PDP'en

Kontroller PDP'en for burn-in og pixel-fejl!

Denne kontrol er meget vigtig, når PDP'en skal transporteres til et værksted.

Se PDP pixel-test, side 3.3.

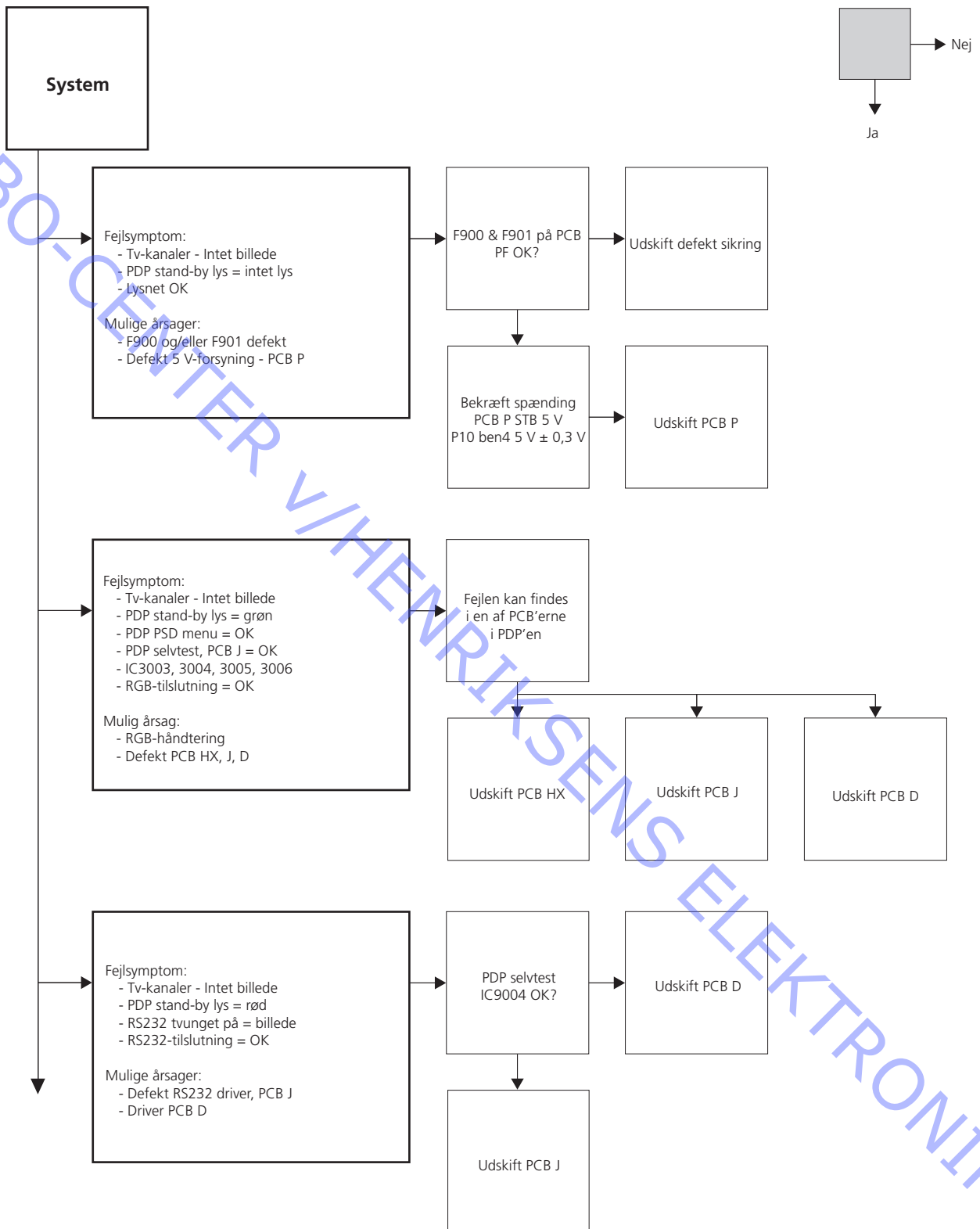
Før du demonterer PDP'en, skal du tage stikket ud af stikkontakten og vente mindst 1 minut, så de elektrolytiske kondensatorer kan aflades.

Tilslut ESD-måtten.

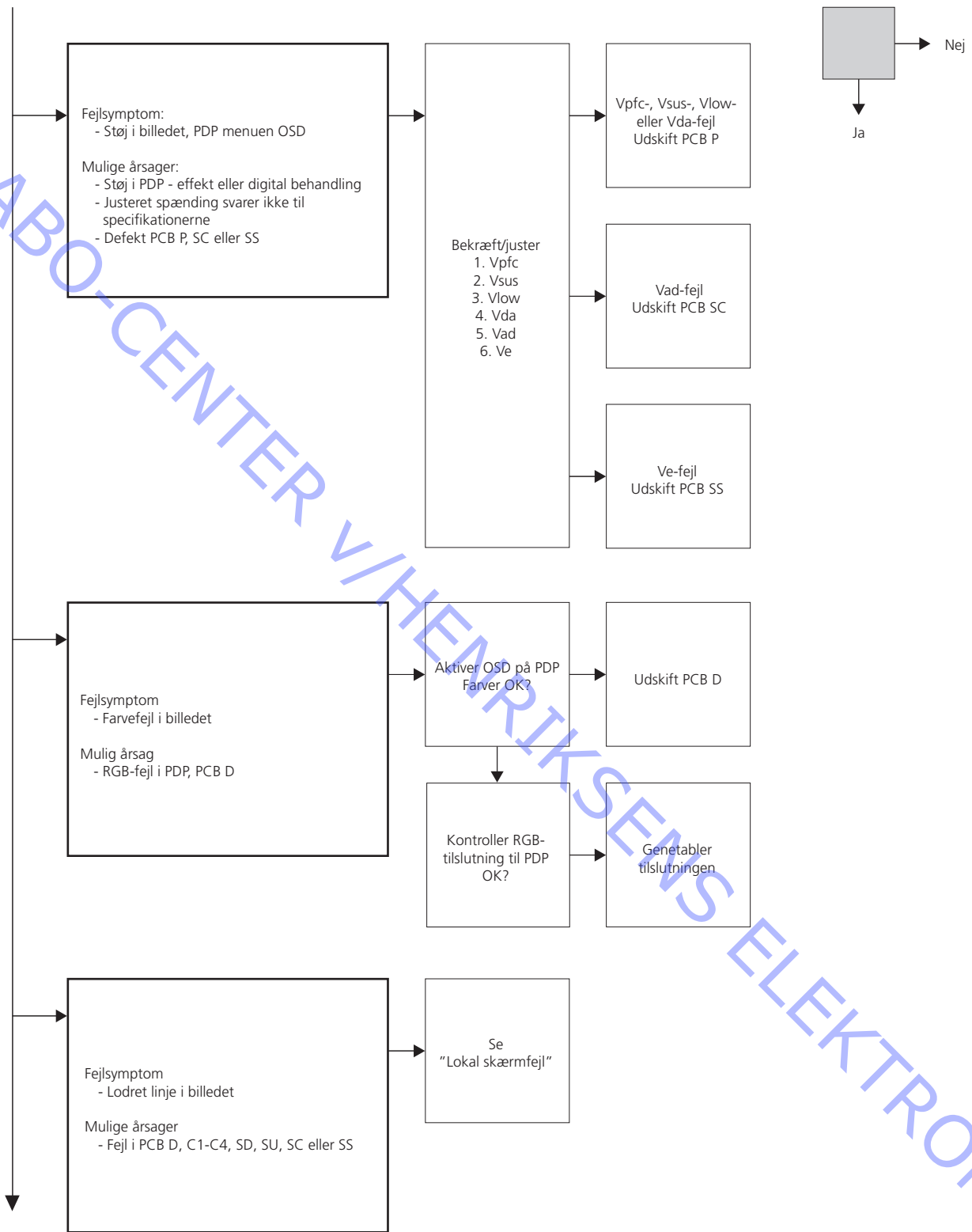
ABO-CENTER V/HENRIKSENS ELEKTRONIK

ABO-CENTER V/HENRIKSENS ELEKTRONIK

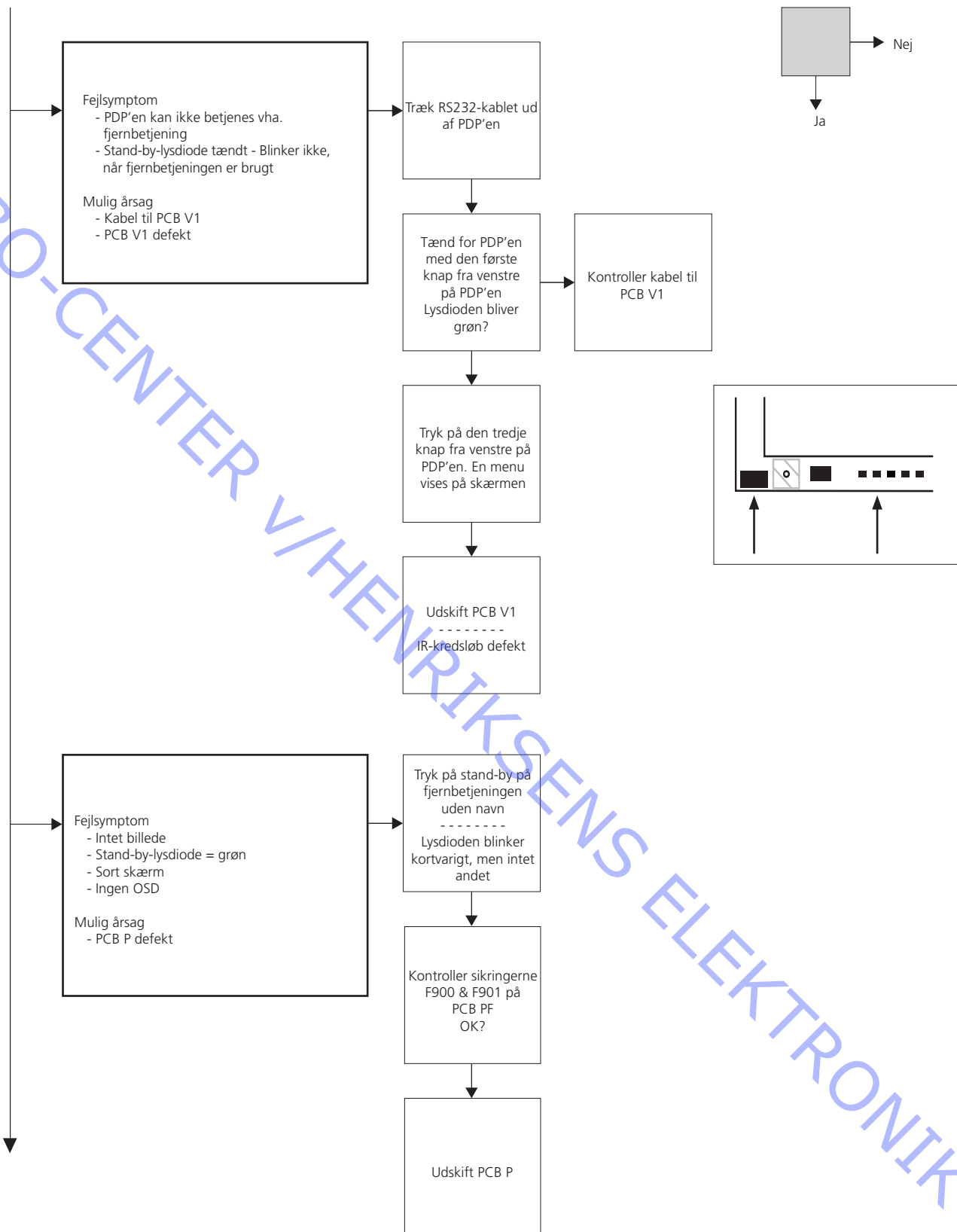
Fejltræ



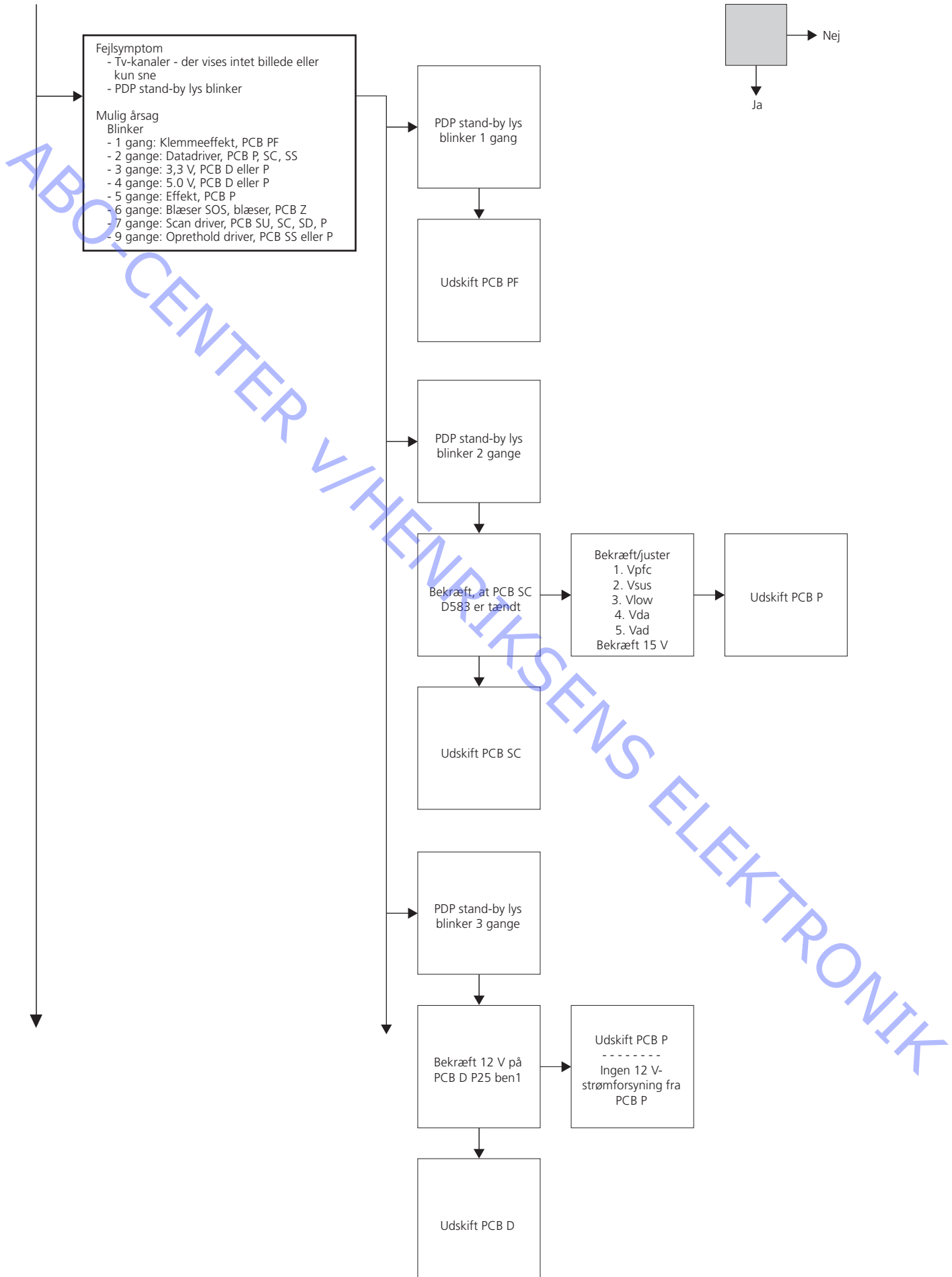
ABO-CENTER V/HENRIKSENS ELEKTRONIK

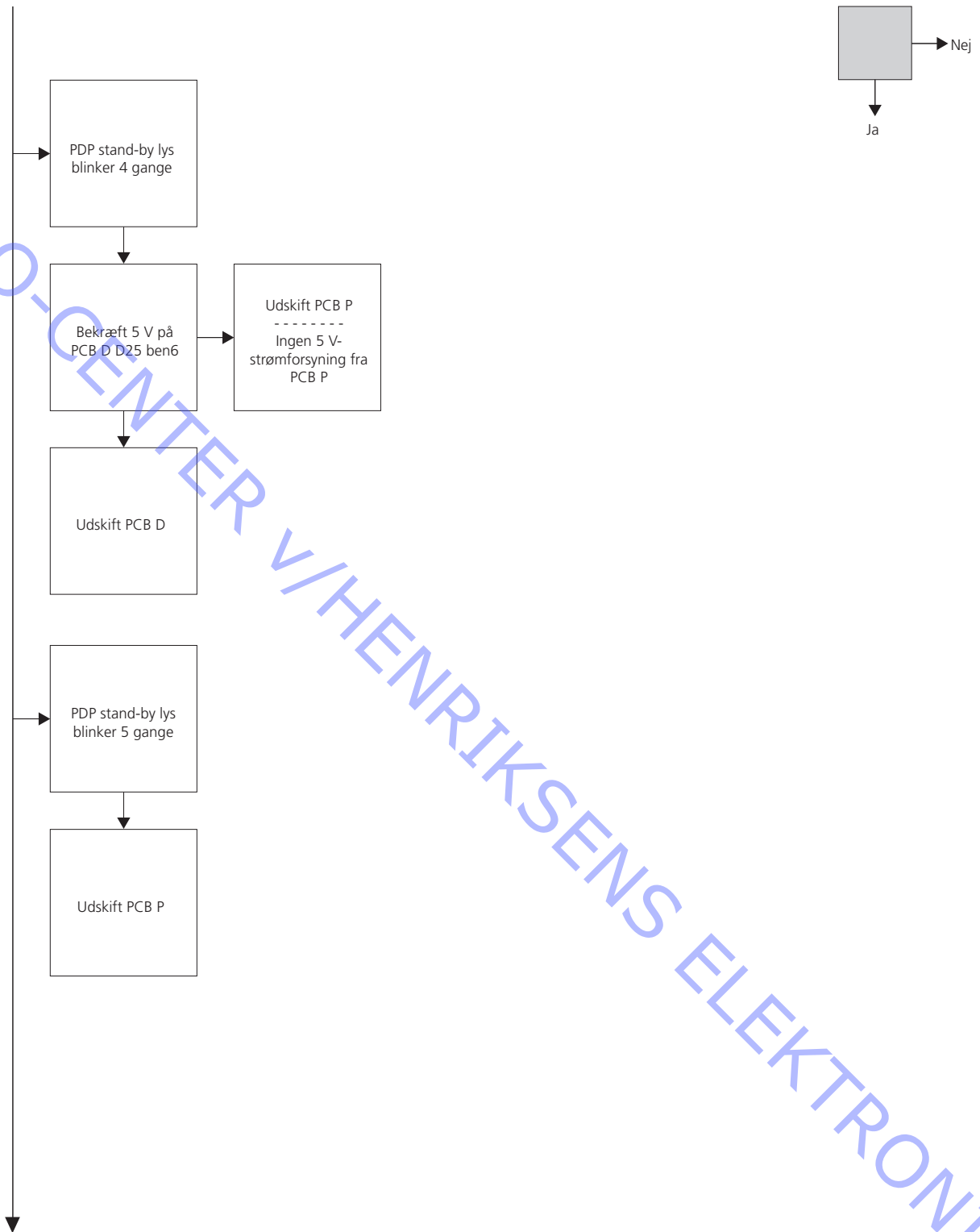




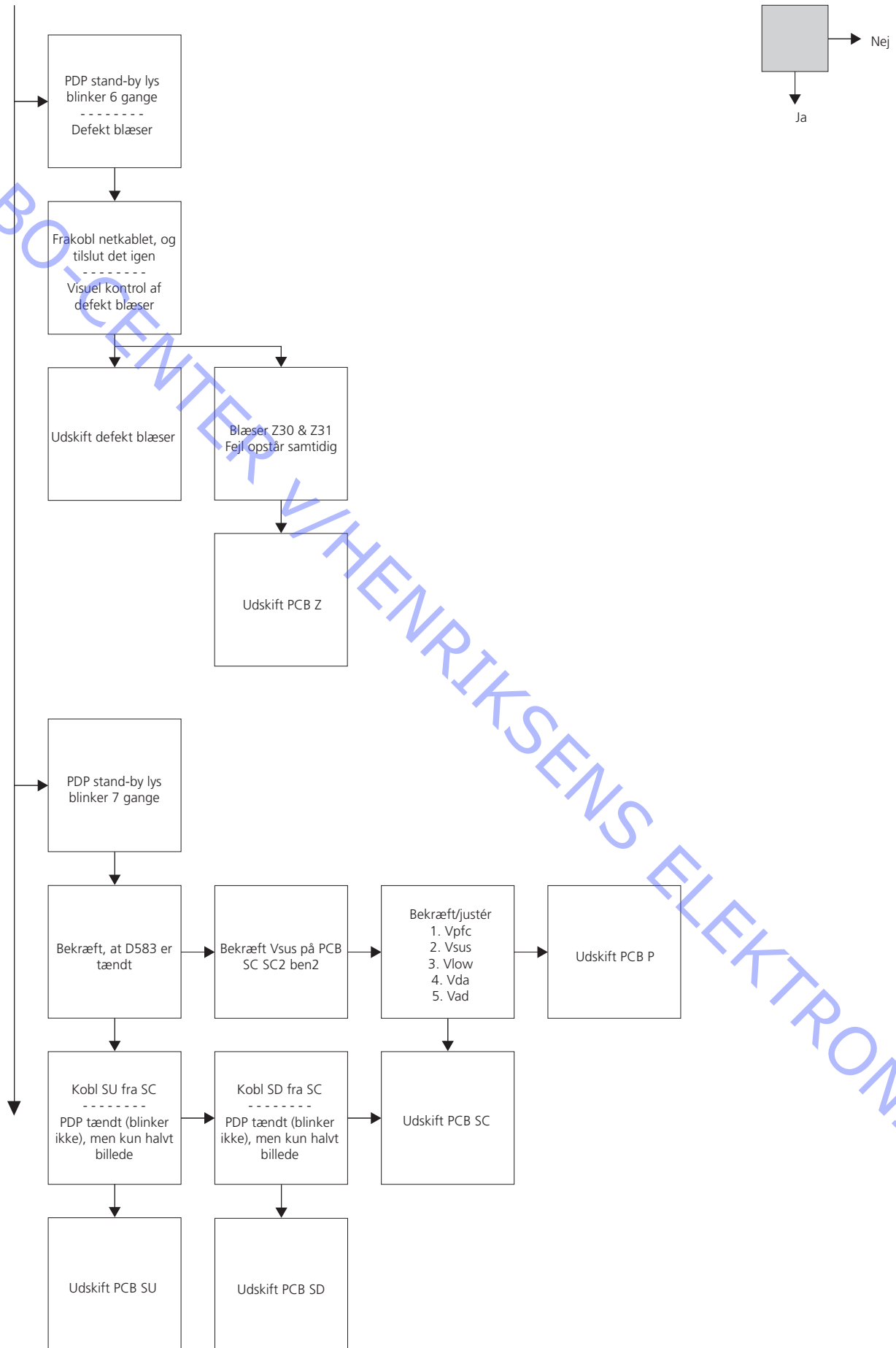


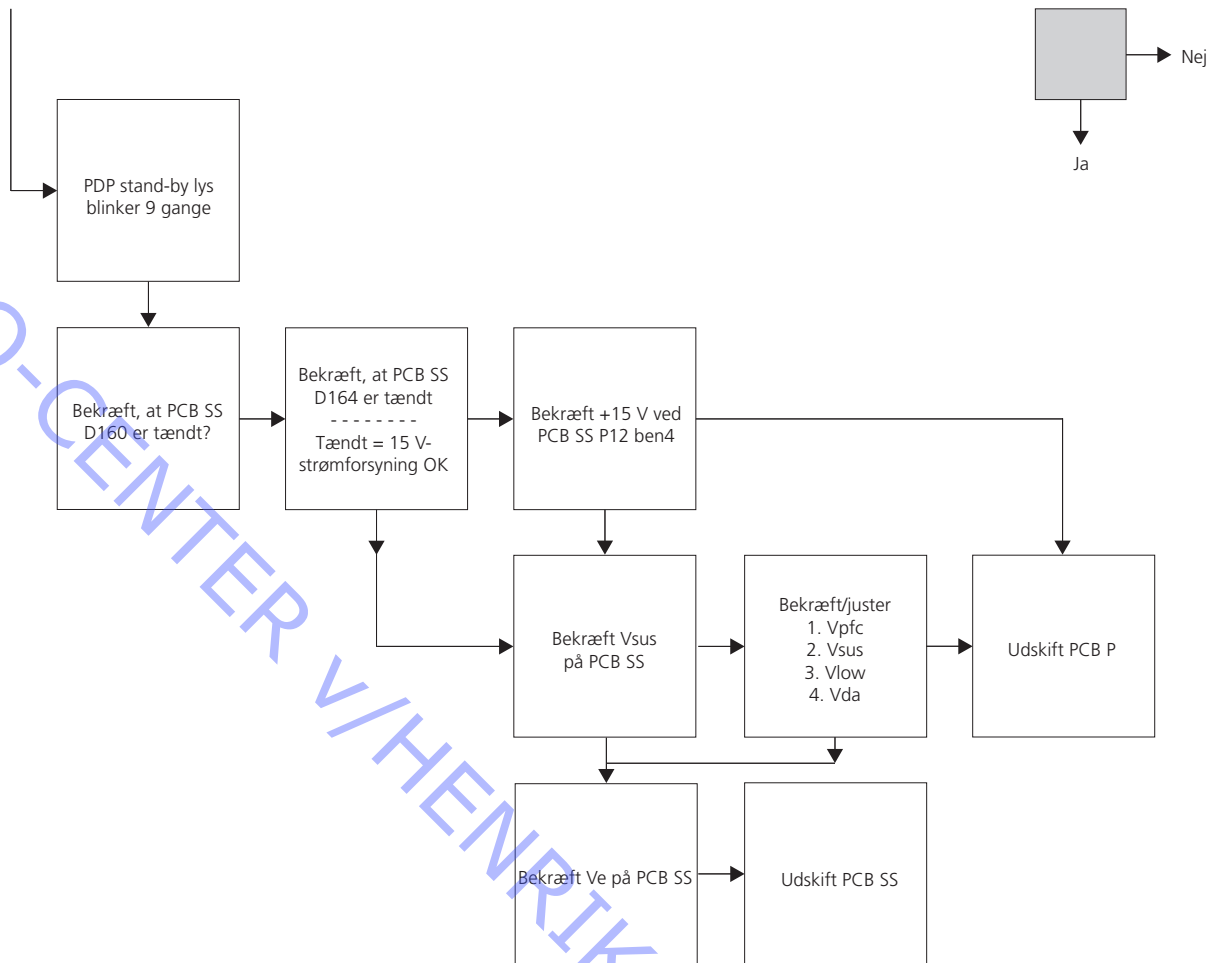
ABO-CENTER V/HENRIKSENS ELEKTRONIK



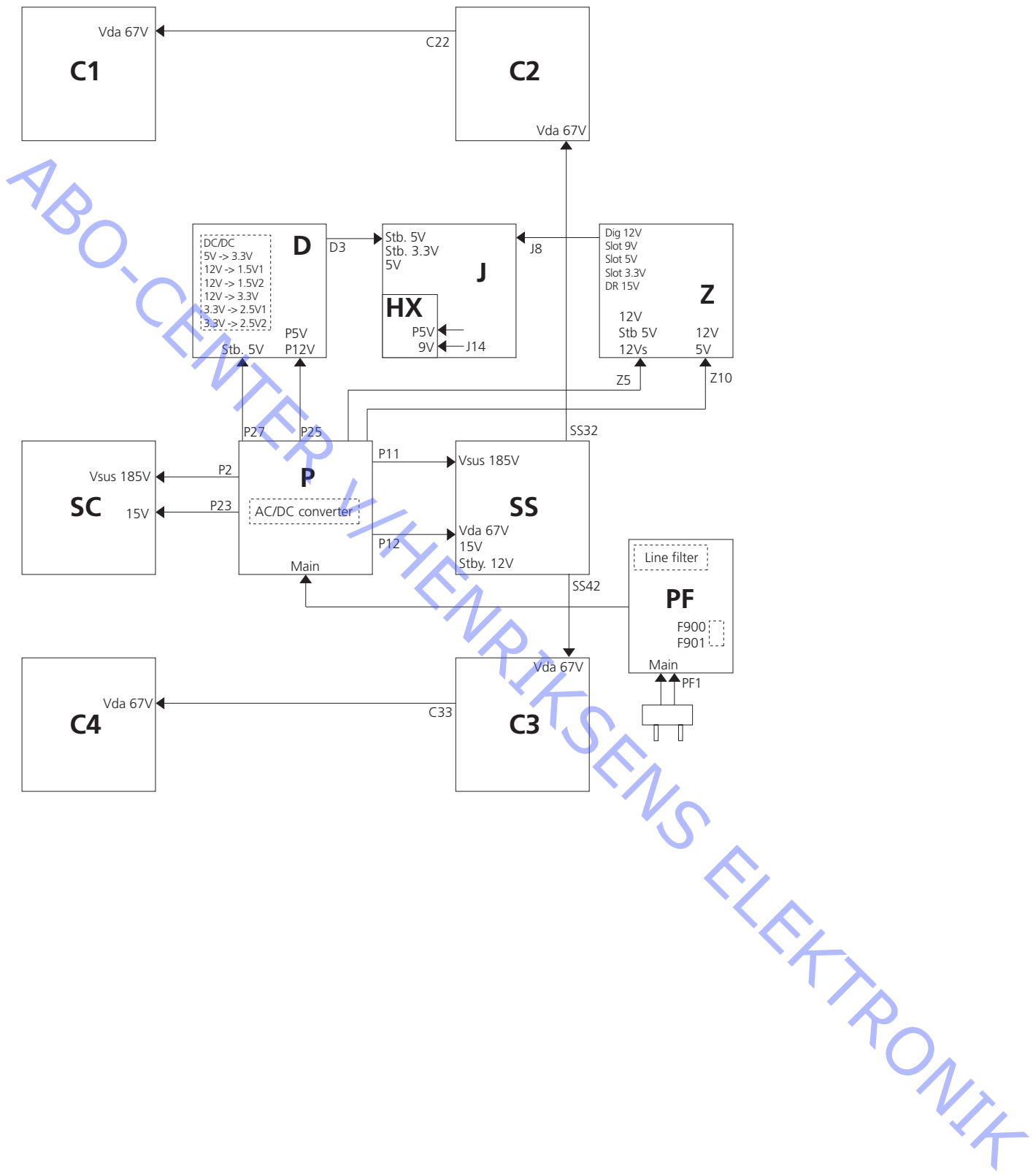


ABO-CENTER V/HENRIKSENS ELEKTRONIK



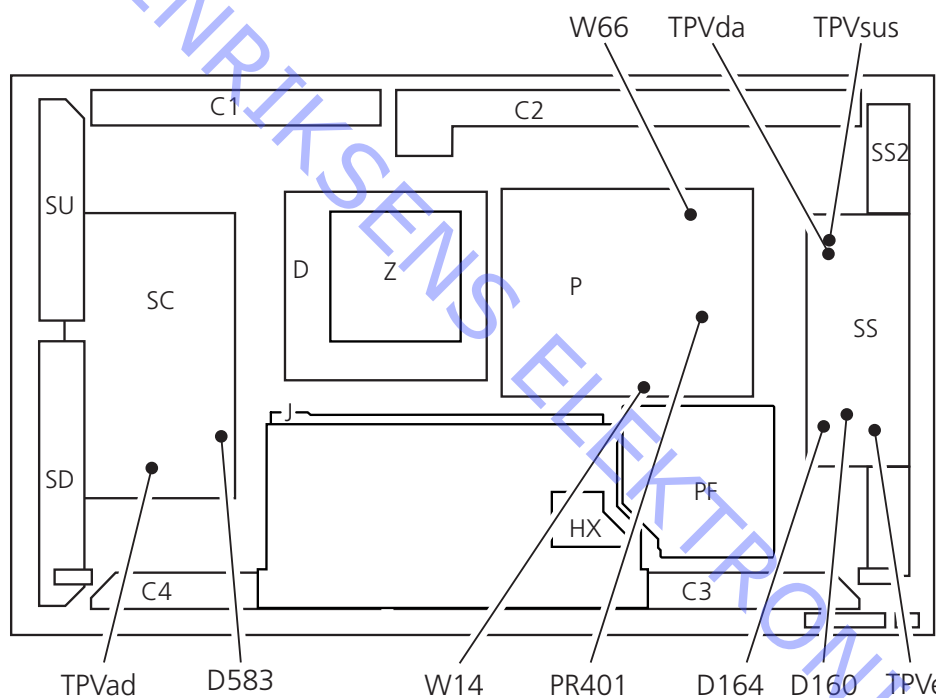
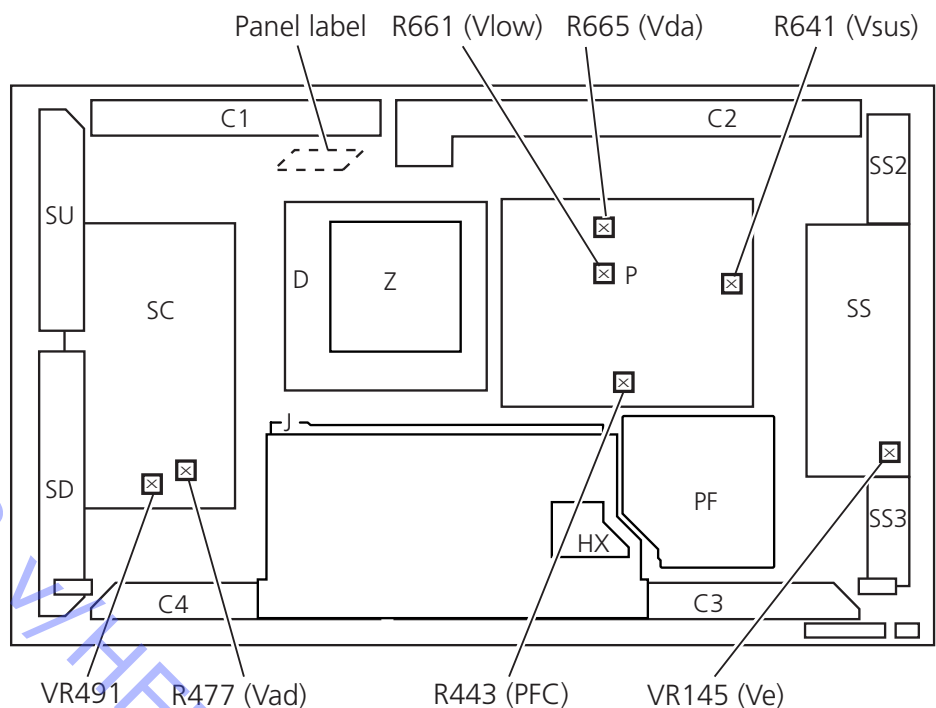


ABO-CENTER V/HENRIKSENS ELEKTRONIK



## Placering af målepunkter

- Brug et ikke-ledende værktøj til justering.



Justeringen af P-modulet (strømforsyningen) skal foretages i følgende rækkefølge og skal altid gennemføres før andre justeringer: 1) PFC – 2) Vsus – 3) Vlow – 4) Vda.

Modul	Testpunkt	Værdi	Tolerance	Juster ved	Bemærkning
P (strømforsyning)	PR401 (PFC)	395 V	+/- 0,5 V	R443	Jord = W14
P (strømforsyning)	TPVsus	185 V	+/- 2 V	R641	
P (strømforsyning)	W66	69 V	+/- 0,1 V	R661	
P (strømforsyning)	TPVda	67 V	+/- 1 V	R665	
P (strømforsyning)	TPVset	240 V	+/- 1 V	VR491	
SC (Scan Out)	TPVad	-105 V	+/- 1 V	VR145	
SS (sustain out)	TPVe	Label	+/- 1 V	VR145	

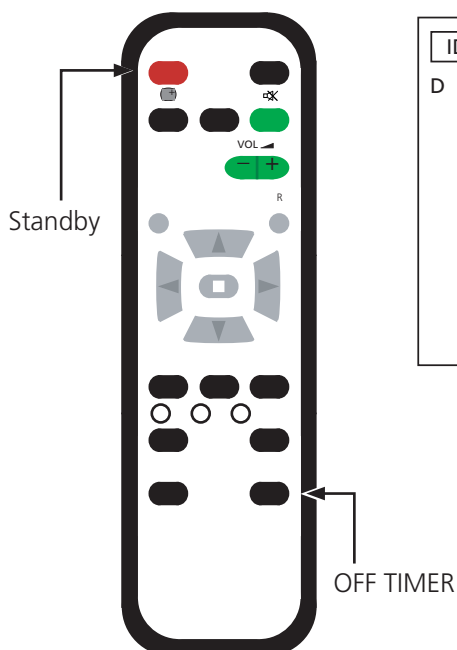
## PDP selvtest

## Selvtesten kontrollerer status på de kredsløb, der er tilsluttet IIC-bussen

Hvis PDP'en er monteret i en aluminiumsramme, skal du pege fjernbetjeningen uden navn mod hullet i det forreste, nederste venstre hjørne af PDP'en. Se >6.

- Se illustrationen vedrørende:
  - Placering af knapper på fjernbetjeningen uden navn.
- Tryk på Standby-knappen på fjernbetjeningen uden navn for at tænde for PDP'en. Brug et tyndt værktøj eller en kuglepen til at trykke ind i hullet FF på fjernbetjeningen uden navn. Resultatet af selvtesten vises i displayet. Se >3.
  - "OK" = Ingen fejl
  - "- - -" = Fejl
- Peg fjernbetjeningen uden navn i samme retning ved anden betjening.
  - Udskiftning af den defekte PCB.
    - Skift PCB D ved fejl i en eller flere af følgende IC'er: IC9004, IC9869, IC9208, IC9501, IC9302, IC9701.
    - Skift PCB J ved fejl i en eller flere af følgende defekte IC'er: IC3003, IC3004, IC3005, IC3006.
    - Skift PCB H, hvis der er fejl i en af følgende IC'er: IC8181.
    - Skift PCB Z, hvis der er fejl i en af følgende IC'er: IC2401.
- Gå ud af selvtest mode.
  - Tryk på "Standby" på fjernbetjeningen uden navn, og tryk derefter på Standby på Beo4.

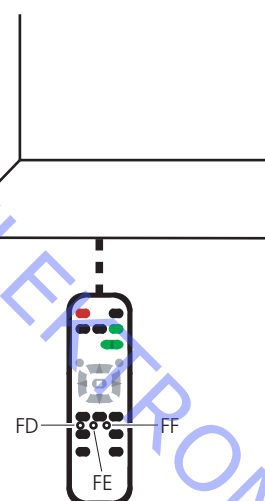
&gt;2



&gt;3

ID	IIC1	IIC2	IIC3
D	IC9004 OK H90	J/H	IC8181 OK H51
	IC9869 OK H61		IC3003 OK H63
	IC9208 OK H62		IC3004 OK H64
	IC9501 OK H53		IC3005 OK H65
	IC9302 OK H55		IC3006 OK H66
	IC9701 OK H56	Z	IC2401 OK H21

&gt;6





## PDP pixel-test

Pixel-testen kontrollerer PDP'ens status for at fastslå antallet af defekte pixler

Testen udføres:

- Før produktet transporteres til PDP-værkstedet
- Før og efter eftersyn på PDP'en

Når PDP'en er monteret i en aluminiumsramme, skal du pege fjernbetjeningen uden navn mod hullet i det forreste, nederste venstre hjørne af PDP'en. Se >6.

- Se illustrationerne vedrørende:

- Placering af knapper på fjernbetjeningen uden navn.

- Gå ind i Service mode.

Tryk på Standby-knappen på fjernbetjeningen uden navn for at tænde for PDP'en.

Brug et tyndt værktøj eller en kuglepen til at trykke ind i hullerne FD og derefter FE på fjernbetjeningen uden navn. Menuen CAT Panel (service mode) vises.

- Vælg IIC mode.

Flyt markøren med pilene op/ned på fjernbetjeningen uden navn, og vælg med "OK".

- Vælg Aging.

Brug pilene op/ned for at finde "Aging" Vælg med "OK".

- Skift prøvebillede.

Tryk på "OK" for at skifte prøvebillede.

- PDP pixel-test.

Brug prøvebillederne RED, GREEN og BLUE til at kontrollere pixlerne.

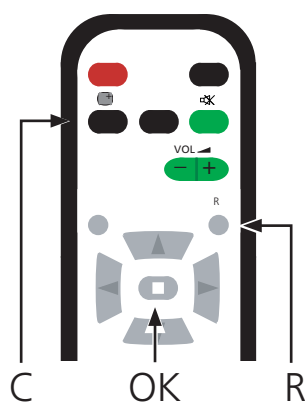
Der er ikke nødvendigvis defekte pixler.

- Gå ud af service mode.

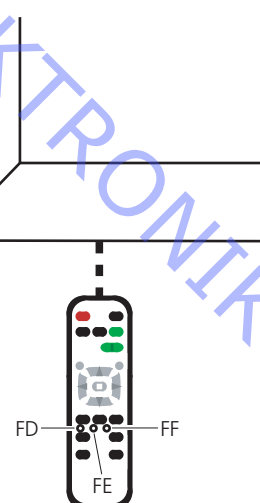
Tryk på "R" to gange for at vende tilbage til menuen CAT Panel.

Tryk på "C" for at vende tilbage til menuen CAT Panel.

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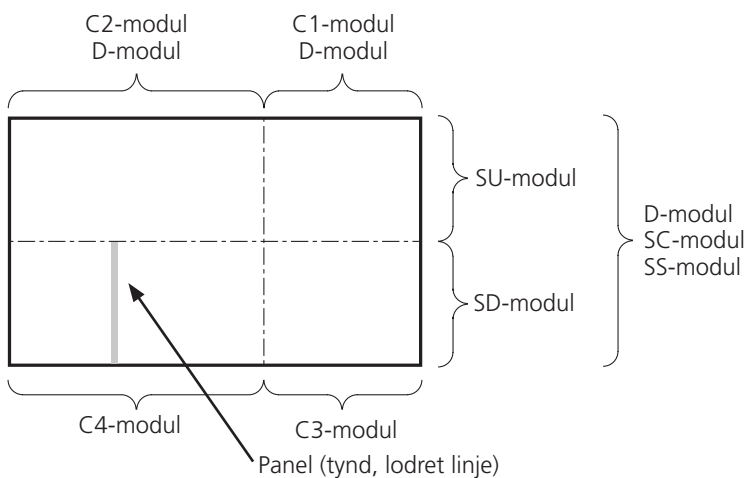


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### Lokal skærmfejl

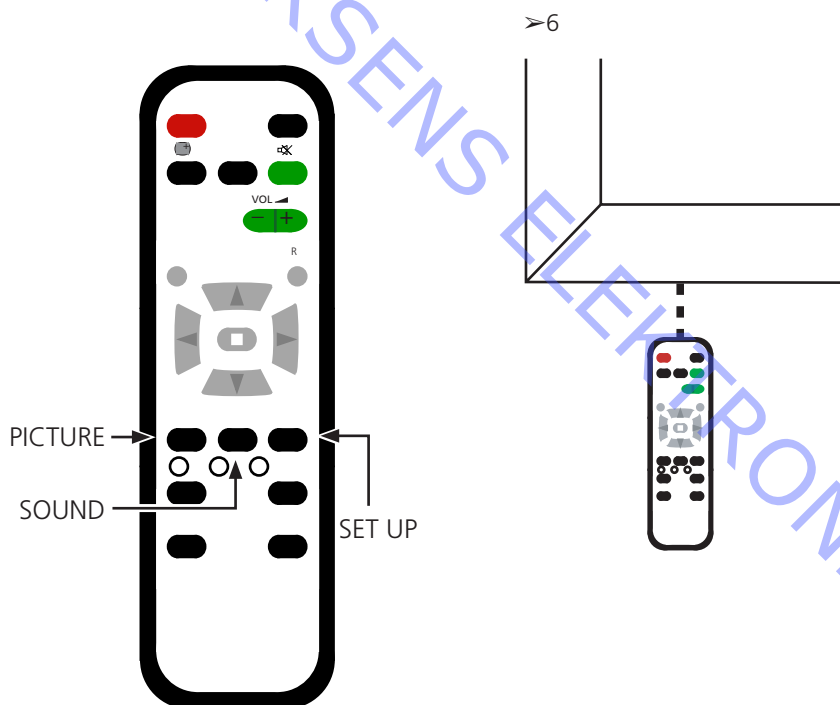
PDP'en kan have en fejl i et lokalt område på skærmen.  
Illustrationen nedenfor viser en mulig sammenhæng mellem fejl og modul.



### Menuen OSD på PDP'en

Hvis PDP'en er monteret i en aluminiumsramme, skal du pege fjernbetjeningen uden navn mod hullet i det forreste, nederste venstre hjørne af PDP'en. Se >6.

1. Tryk på **PICTURE**, **SOUND** eller **SET UP** på fjernbetjeningen uden navn.



## Udskiftning af moduler

Udskiftning af moduler  
Udskiftning af kontrastskærm

## Handlinger før demontering af PDP'en

Før du demonterer PDP'en, skal du tage stikket ud af stikkontakten og vente mindst 1 minut, så de elektrolytiske kondensatorer kan aflades.

Tilslut ESD-måttten.

Når du har udskiftet enhed(er) i PDP'en, skal du gennemgå testen og justeringsproceduren som beskrevet i afsnittet "Test og justering efter udskiftning af enhed(er)" på side 3.8.

## BEMÆRK

Indvendige ledninger i PDP'en.  
Vær forsigtig, når du kobler ledningerne fra stikkene.

## Udskiftning af moduler

Følg instruktionerne på side:  
4.1 PDP i serviceposition  
4.3 - 4.19 for udvalgte PCB'er

## Udskiftning af kontrastskærm

Brug hvide handsker for at undgå at plette kontrastskærmen.

Brug kun mikrofiberkluden, varenr. 3375706, til at rengøre PDP'en.  
Undgå enhver brug af rengøringsmidler på PDP'en.

Følg instruktionerne på side:  
4.1 PDP i serviceposition  
4.2 Fjern kontrastskærm og plasmaramme

**Test, justering og konfiguration efter reparation**

Konfigurer PDP til B&O menu.

Test og justering efter udskiftning af enhed(er).

**Advarsel**

Der kan opstå burn-in på PDP'en, når der vises et still-billede i mere end 30 minutter.

**Geometriindstillinger (USA)**

	42"	BV5 42"
<b>PAL-M</b>		
VPO	0008	
VSZ	0036	
HPO	0037	
HSZ	0064	
<b>PAL-N</b>		
VPO	-030	0004
VSZ	0015	0026
HPO	0016	0034
HSZ	0000	-002
<b>HDTV 1080i</b>		
VPO	0000	0000
VSZ	0009	-009
HPO	0009	0011
HSZ	-006	-036
<b>DTV 480p</b>		
VPO	0005	0005
VSZ	0033	0029
HPO	0033	0039
HSZ	0064	0049

**Test og justering**

Test og justering efter udskiftning af modul(er) skal udføres efter enhver reparation, der foretages på PDP'en.

**Konfigurer PDP til B&O menu**

D-modulet skal konfigureres for at det kan fungere sammen med Bang & Olufsens funktioner.

- Se illustrationen vedrørende:
  - Placering af knapper på plasmapanel og fjernbetjening uden navn.
  - Menuen CAT Panel og CD mode.
- Tænd for plasmapanelet.
  - Tryk på knappen mærket "A".
  - Plasmalydioden bliver grøn.
- Gå ind i service mode
  - Tryk på FD og derefter FE på fjernbetjeningen uden navn.
- Adgang til CD mode i menuen CAT Panel.
  - Brug piletasterne til at vælge CD mode, og vælg med OK.

5. Kontroller Address og Data i Memory data change.  
 Brug piletasterne til at finde den nødvendige Address i Memory data change.  
 Den første Address code indstilles ved hjælp af piletasterne.  
 Den anden Address code indstilles ved hjælp af pil op og pil ned. Se >7.

6. Kontrollér Address og Data.

Address	00	8E	00	8F	00	92	00	AD	03	0B	03	0C	03	0D	13	B8
Data	10	10	01	01	10	10	00	00	03	03	03	03	03	03	FF	FF

7. Skift Data i Memory data change.

Brug om nødvendigt lydstyrkeknapperne (+/-) til at ændre værdien Data.

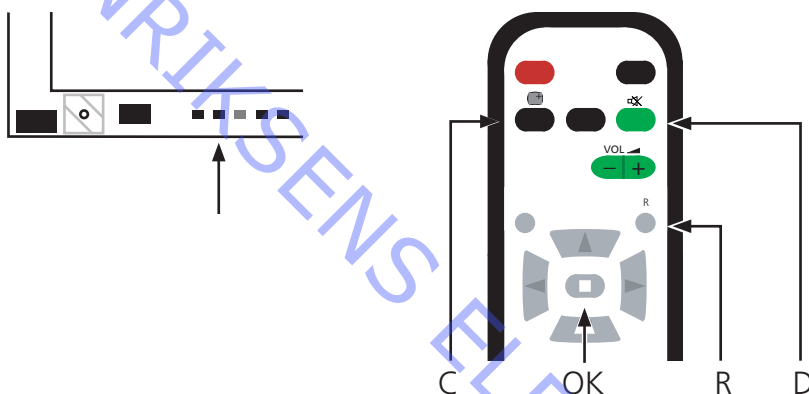
Data for plasmapanel.

Address	00	8E	00	8F	00	92	00	AD	03	0B	03	0C	03	0D	13	B8
Data	10	10	01	01	10	10	00	00	03	03	03	03	03	03	FF	FF

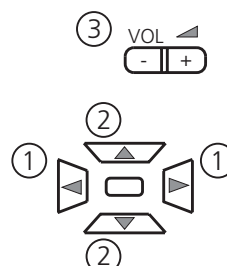
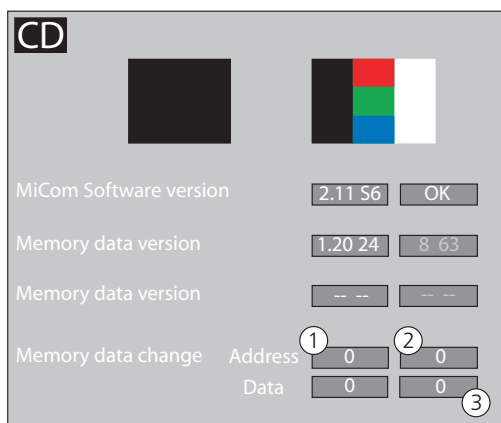
8. Gå ud af Service mode.

Gå ud af CD mode ved at trykke på knappen "R", og menuen CAT Panel vises igen.

Gå ud af menuen CAT Panel ved at trykke på knappen "C".



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**Test og justering efter udskiftning af enhed(er)**

Forberedelser før justering

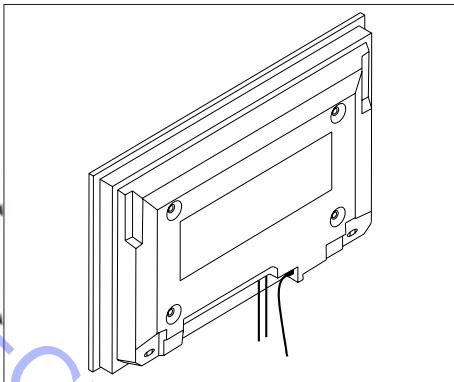
- Tilslut ikke ESD-måttten til PDP.
  
- Indstil PDP'en til at modtage et billede. Generer f.eks. et internt billede. Se PDP pixel-test, side 3.3.
  
- Kontrol og justering af spænding kan foretages med et DC-voltmeter (f.eks. et multimeter).  
Jord forbindes til chassiset i PDP'en, medmindre andet er angivet.  
Se side 3.1 vedr. måle- og justeringspunkter.

**Afsluttende kontrol efter reparation**

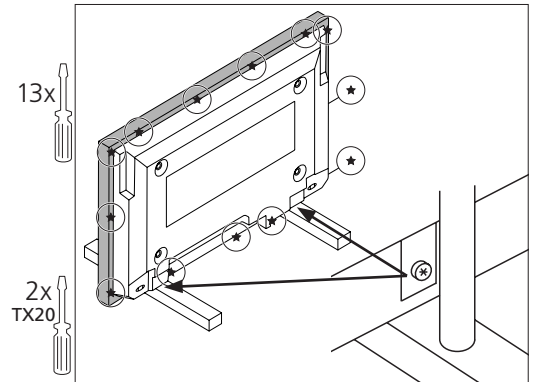
Før PDP'en geninstalleres i produktet, skal der gennemføres PDP selvtest, side 3.2.

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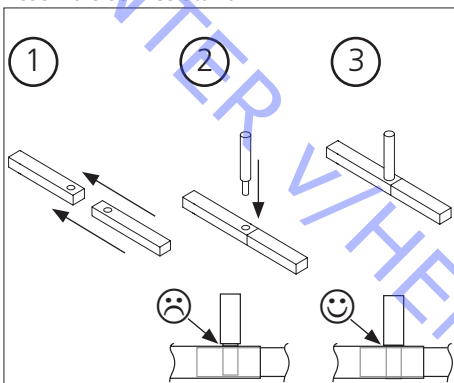
Remove all cables



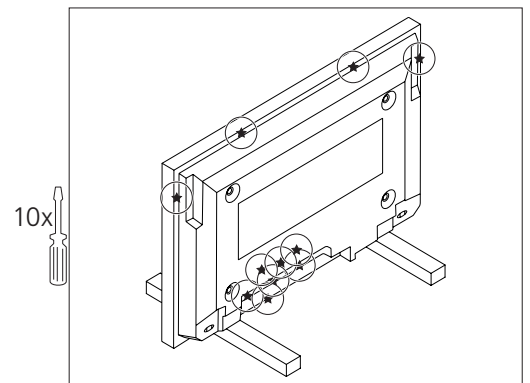
Remove screws + 2 behind service stands



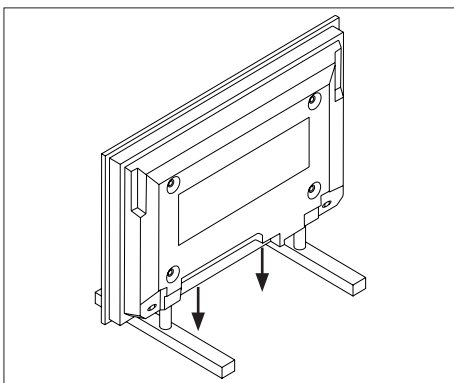
Assemble service stand



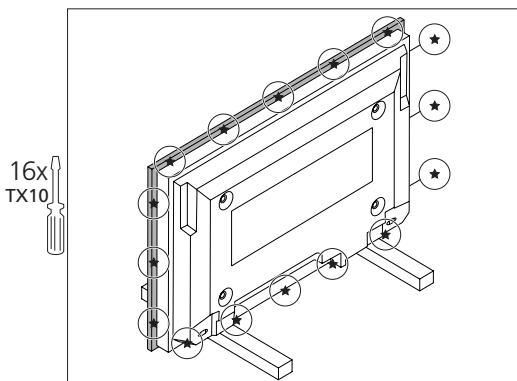
Remove screws for backcover



Put PDP on service stands



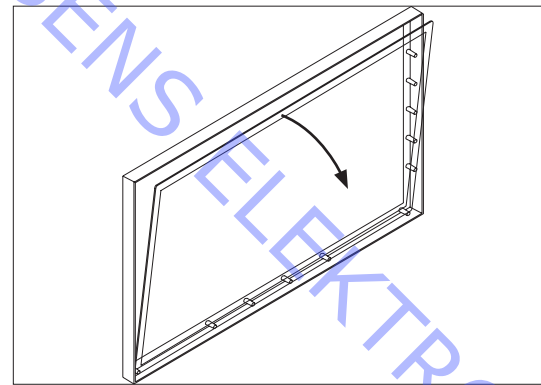
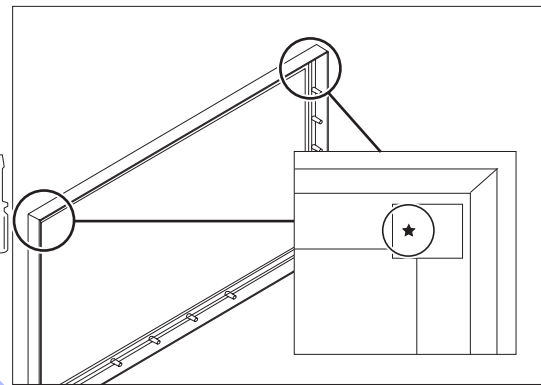
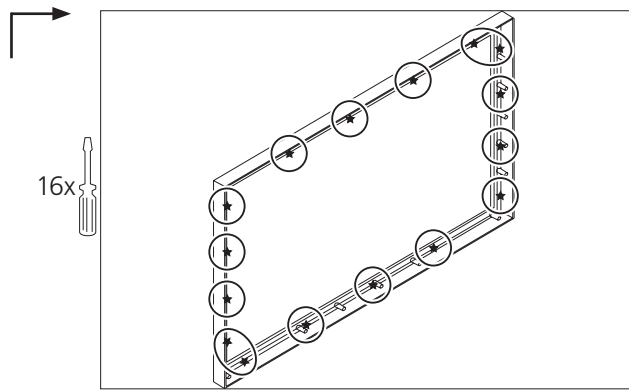
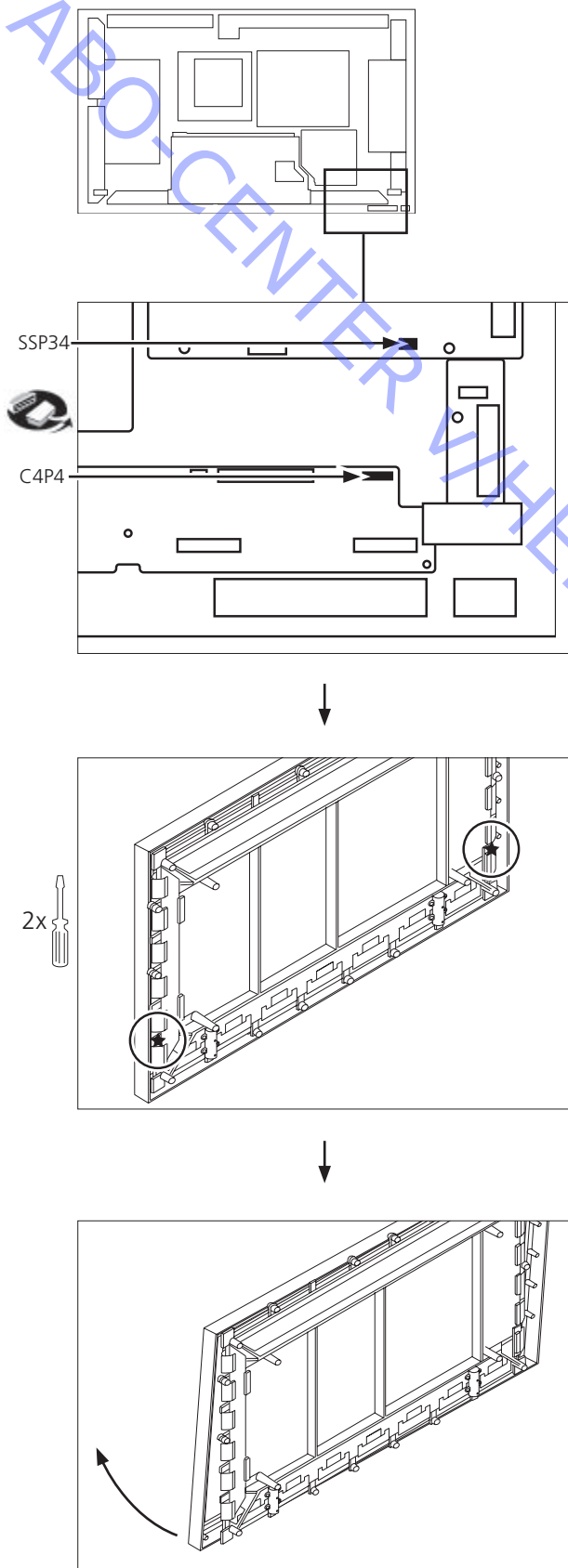
Remove screws for aluminium frame



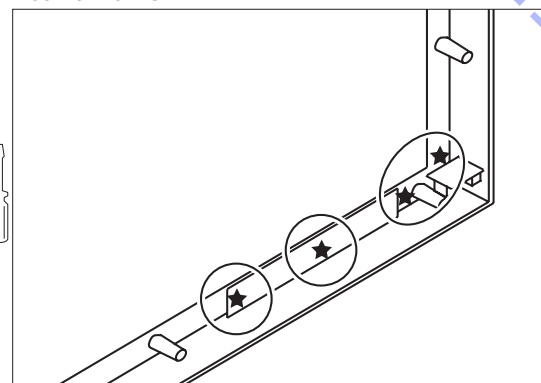
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Remove contrast screen and plasma frame

➔ Plasma Display Panel in service position

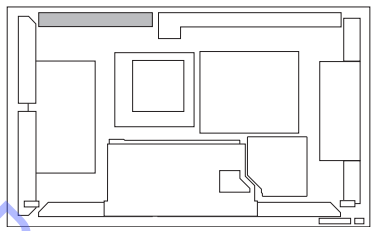


Plasma frame

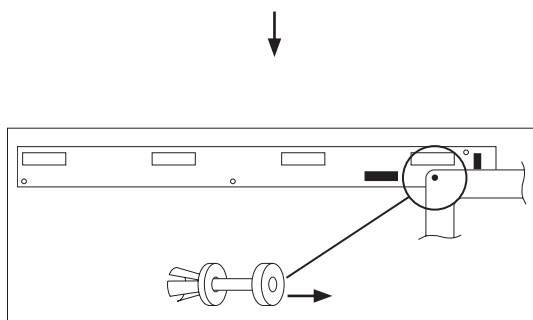
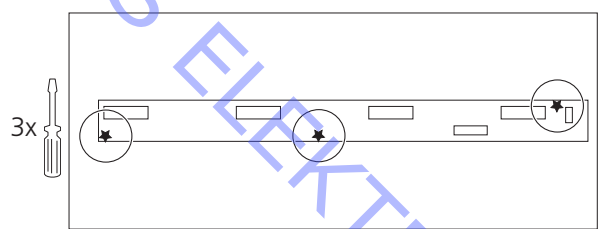
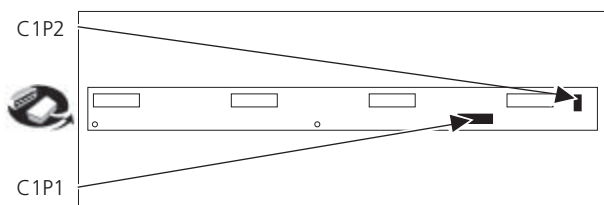
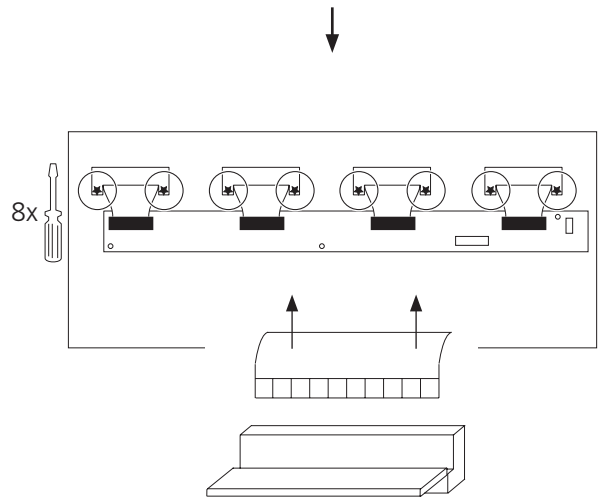
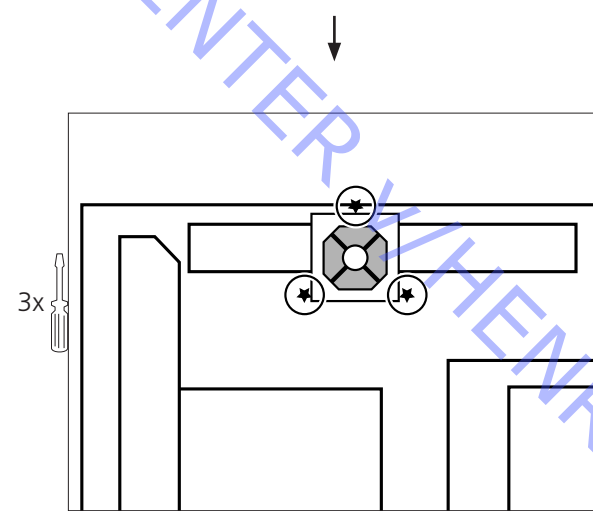
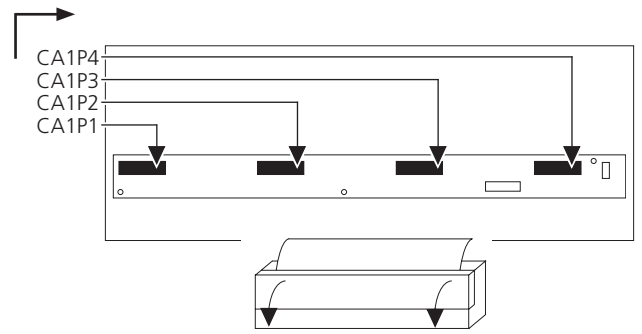




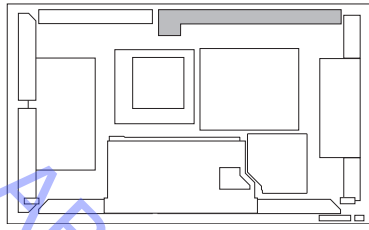
Replacement of PCB C1, Data Drive (Upper left)



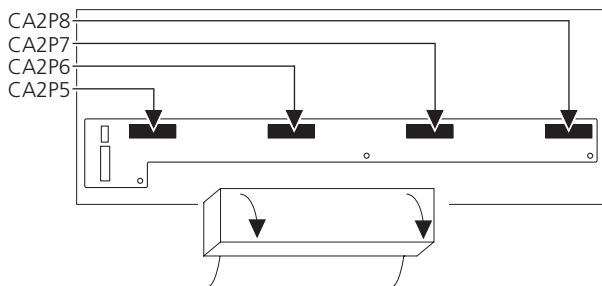
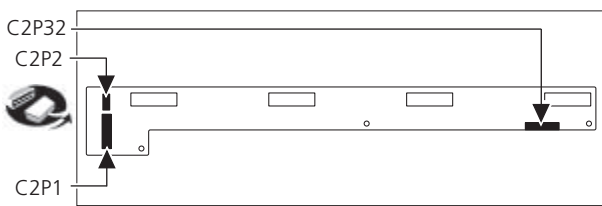
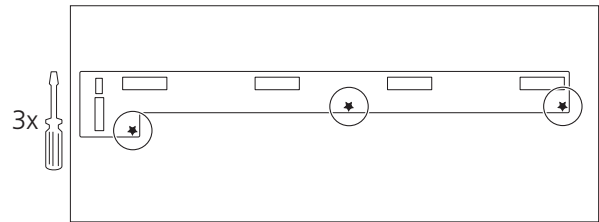
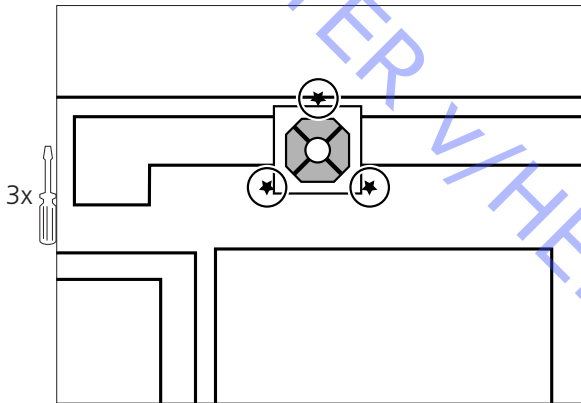
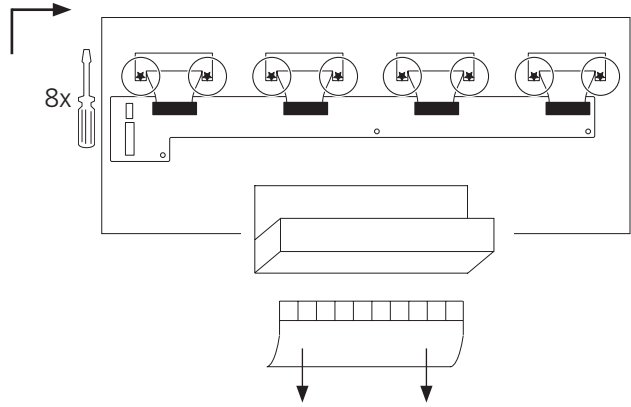
Plasma Display Panel in service position



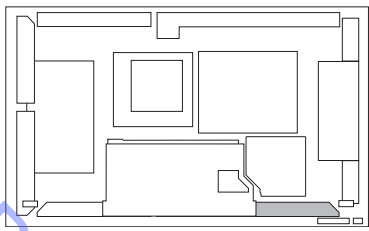
Replacement of PCB C2, Data Drive (Upper center)



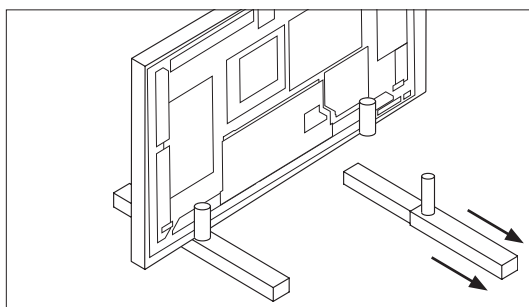
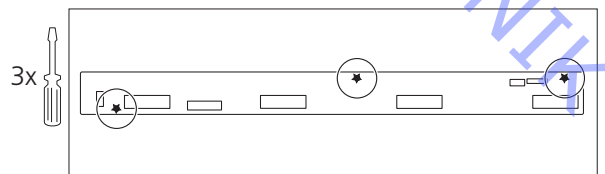
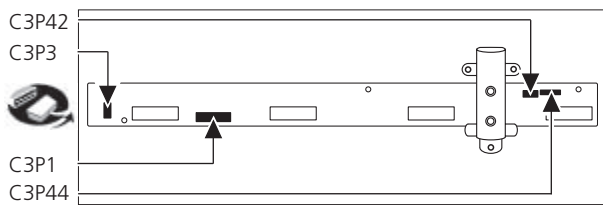
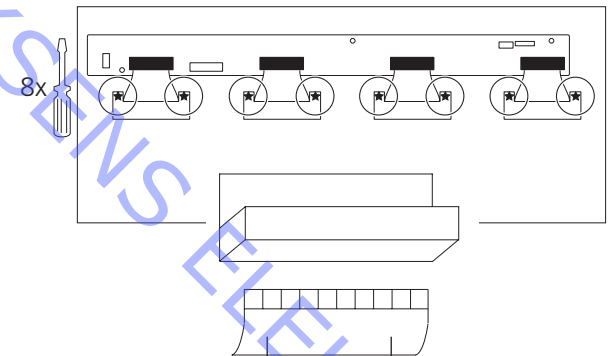
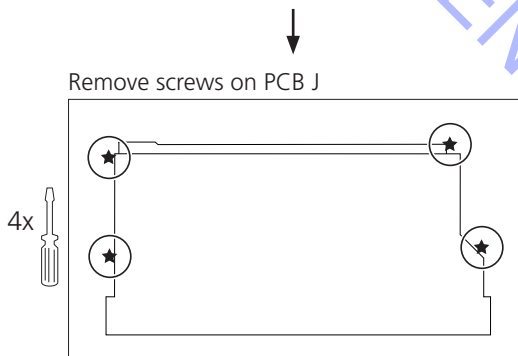
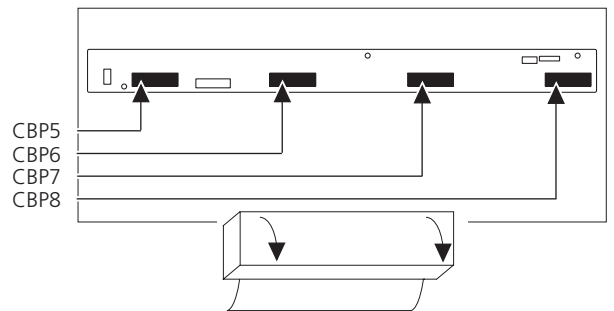
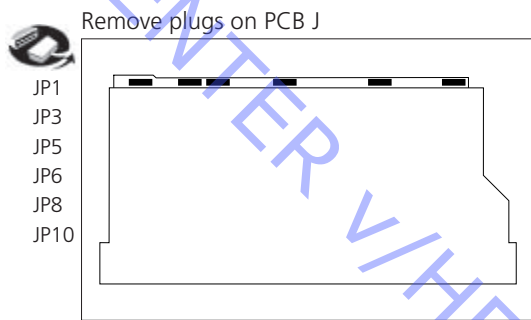
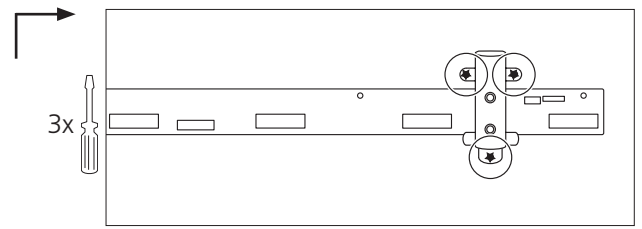
Plasma Display Panel in service position



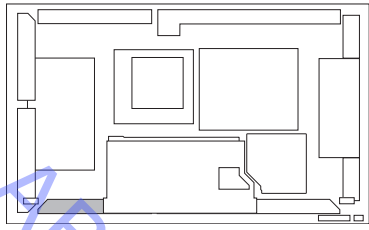
Replacement of PCB C3, Data Drive (Upper right)



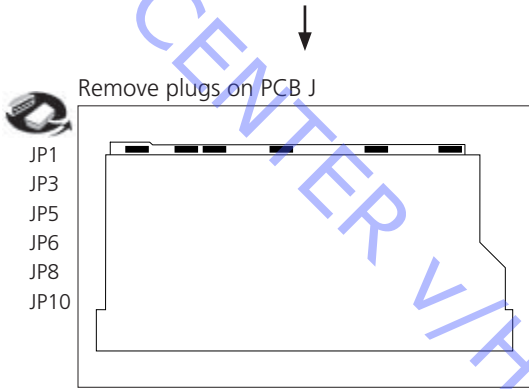
Plasma Display Panel in service position



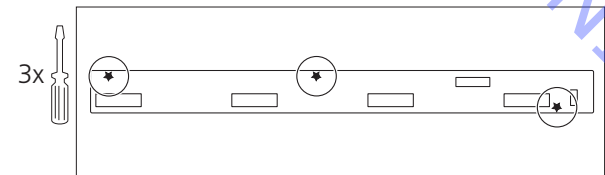
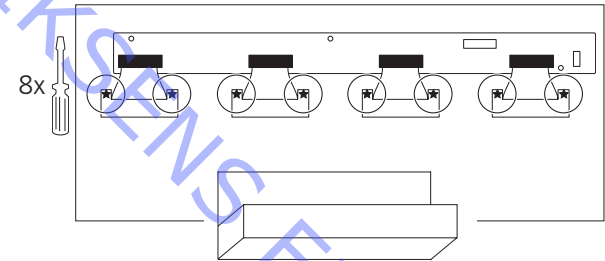
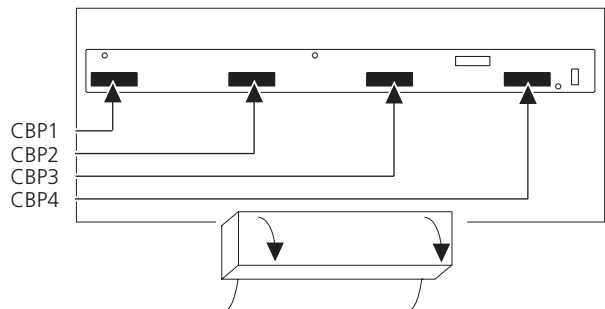
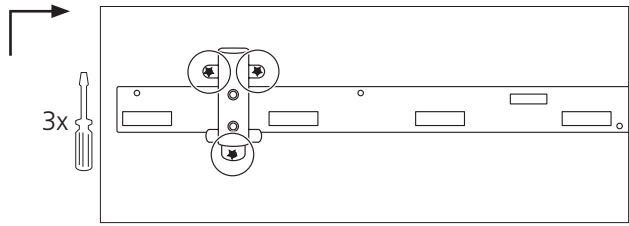
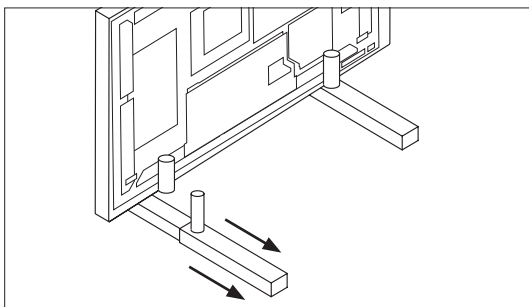
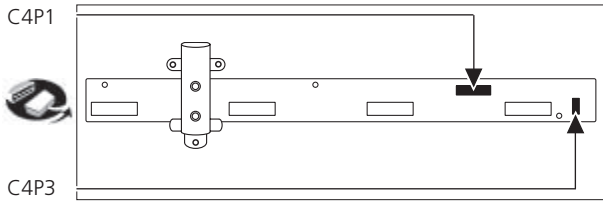
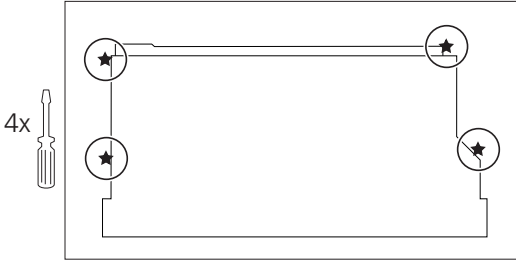
Replacement of PCB C4, Data Drive (Lower right)



Plasma Display Panel in service position

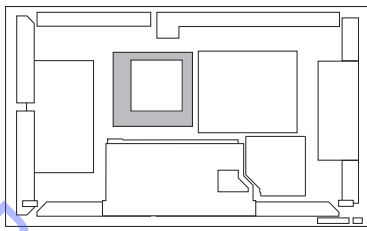


Remove screws on PCB J

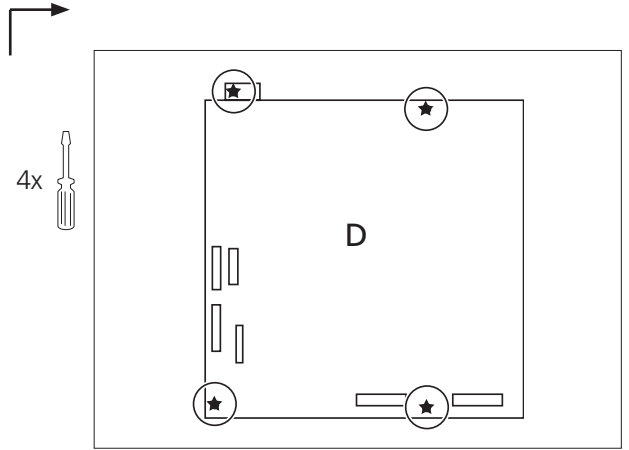


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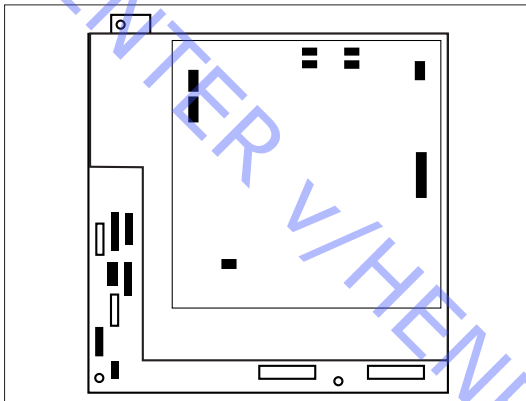
Replacement of PCB D, Digital Signal Processor



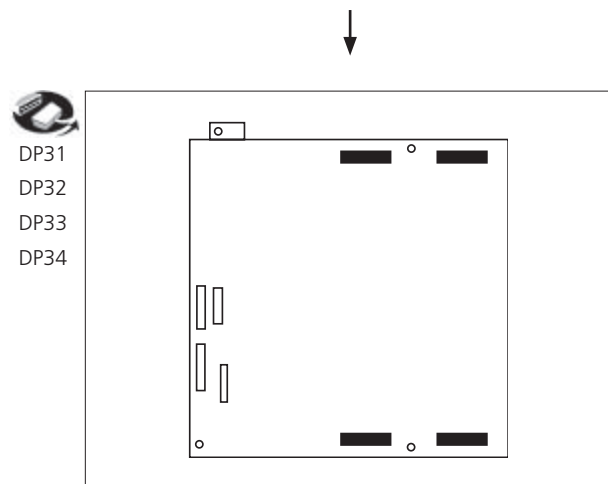
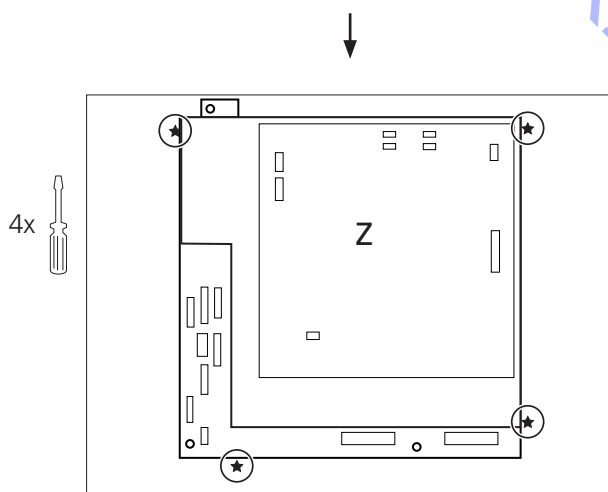
Plasma Display Panel in service position



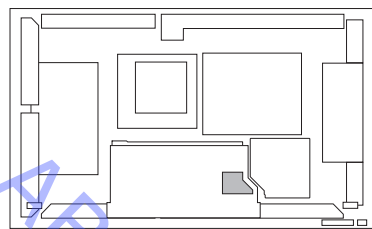
- DP01
- DP03
- DP05
- DP20
- DP25
- DP27



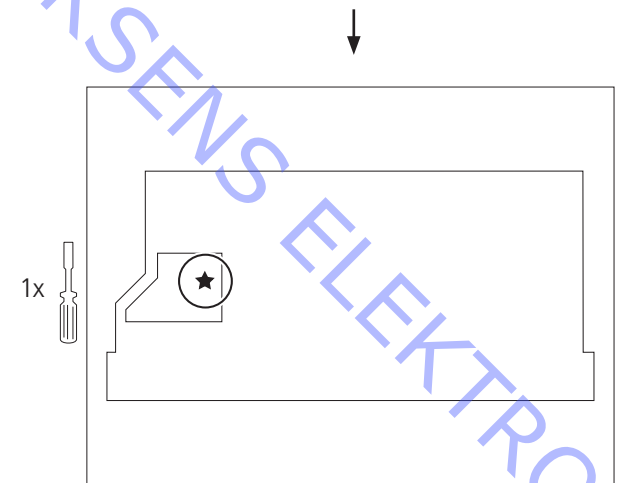
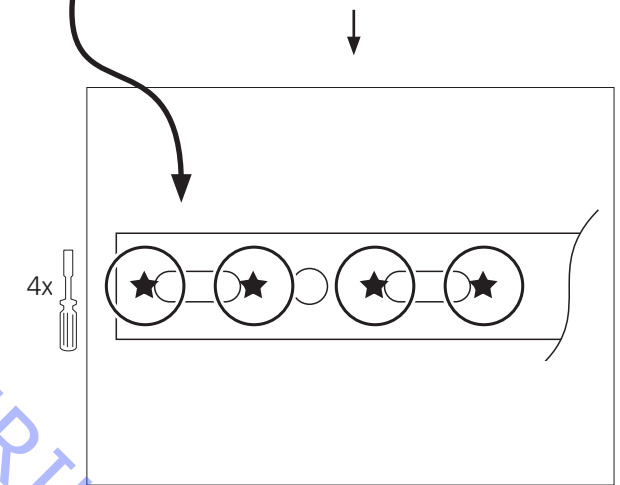
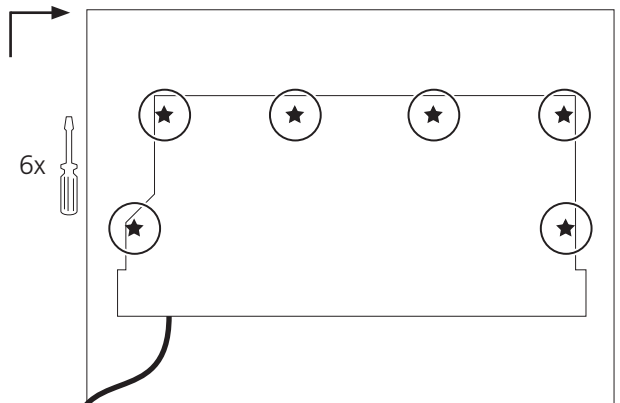
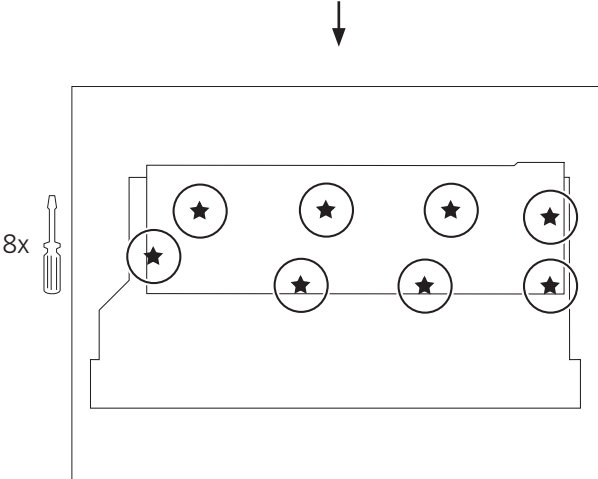
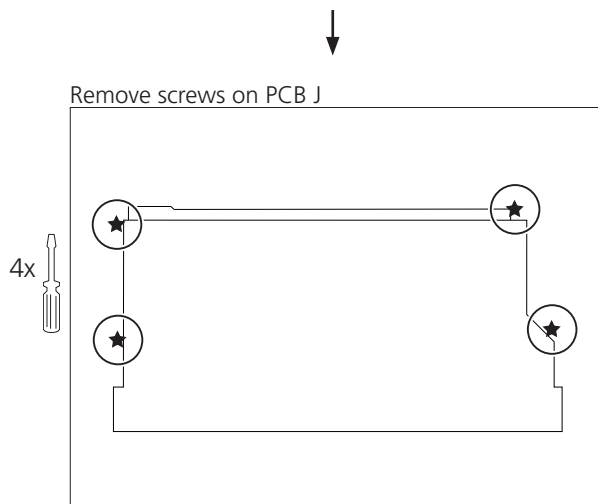
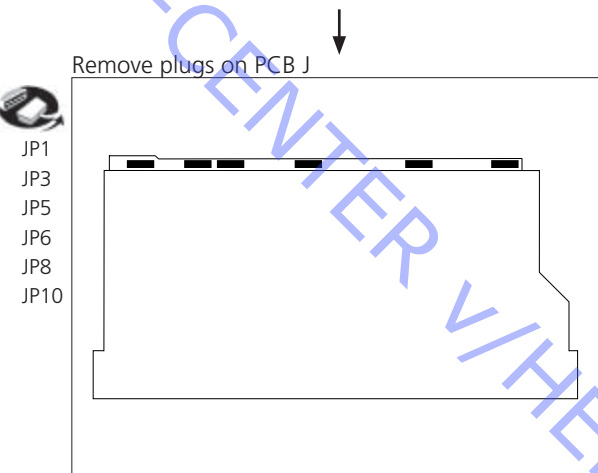
- ZP5
- ZP6
- ZP7
- ZP8
- ZP10
- ZP30
- ZP31
- ZP32
- ZP33



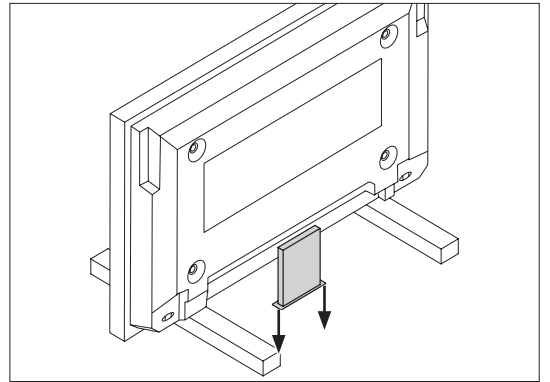
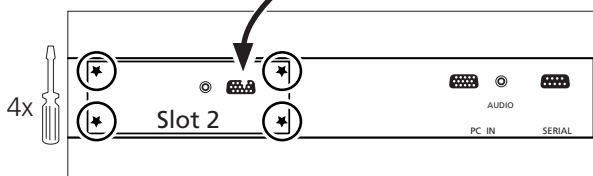
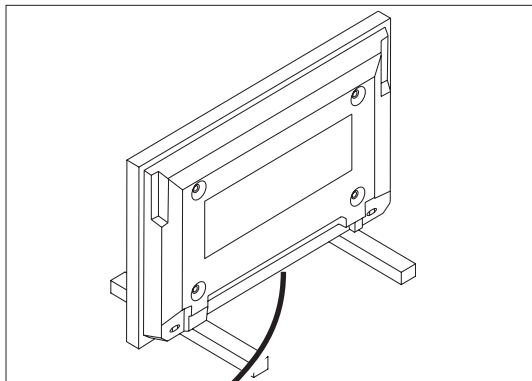
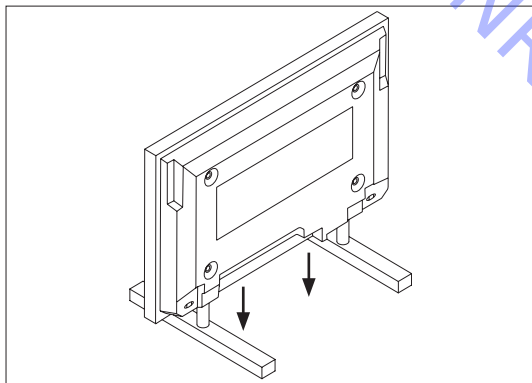
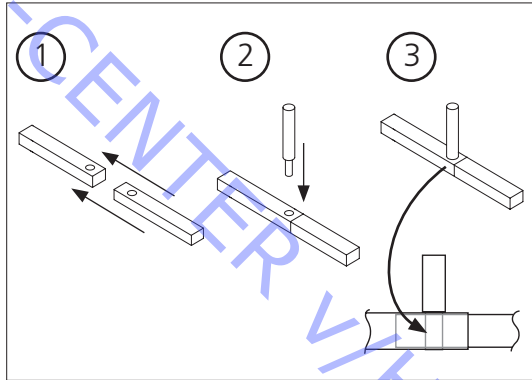
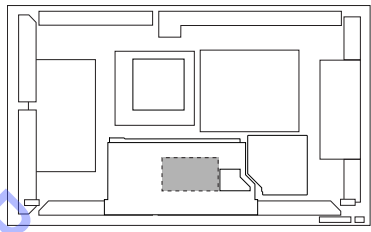
Replacement of PCB HX, PC Type Input Terminal



Plasma Display Panel in service position

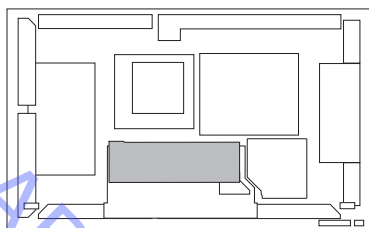


Replacement of PCB TY-42TM6P, PC-module

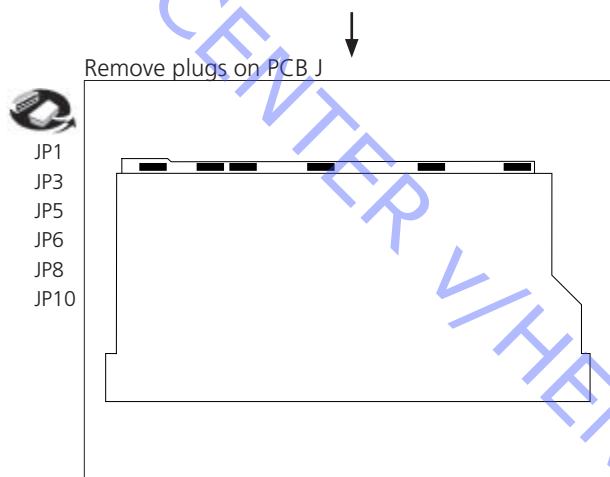


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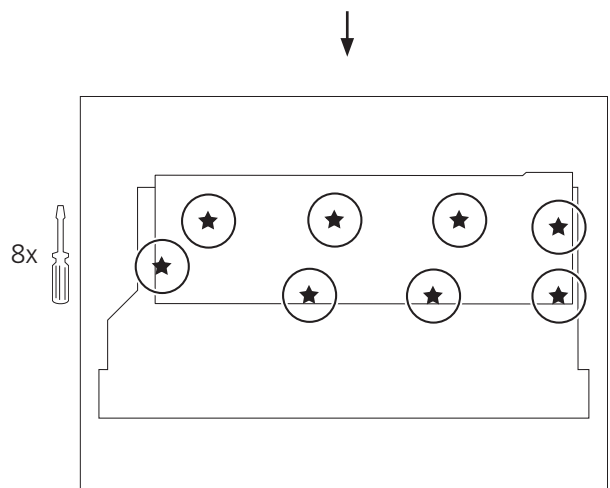
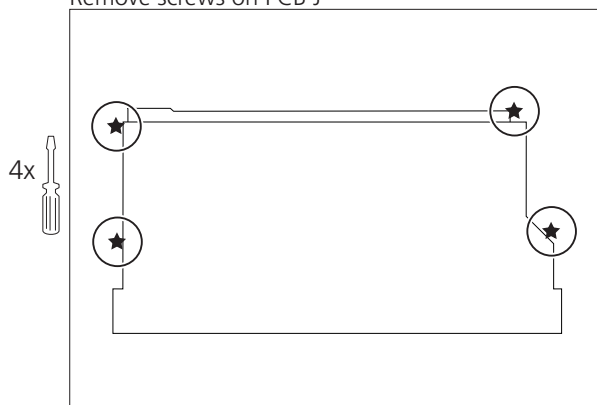
Replacement of PCB J, Slot Interface & SYNC processor



➔ Plasma Display Panel in service position

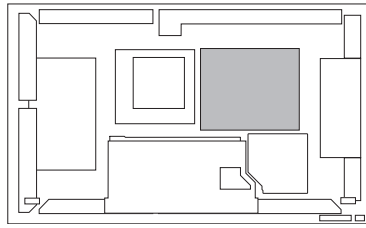


Remove screws on PCB J

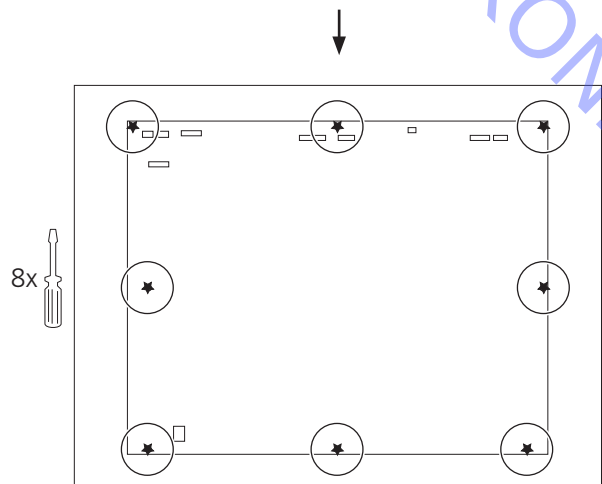
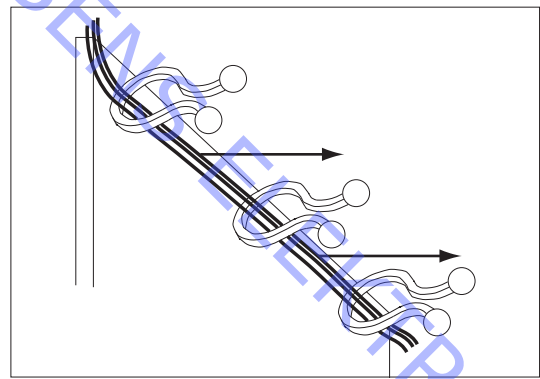
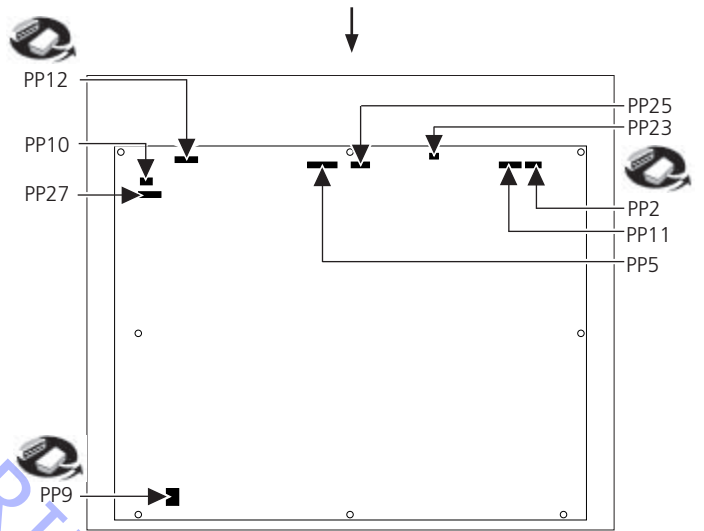




Replacement of PCB P, Power Supply

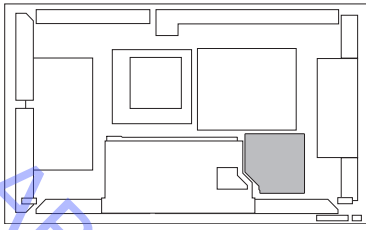


➔ Plasma Display Panel in service position

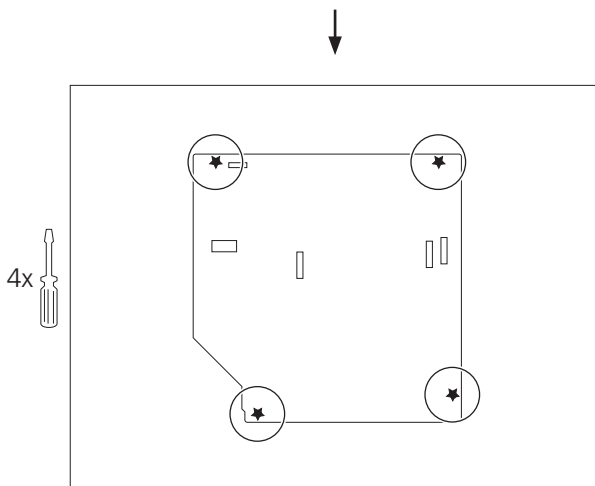
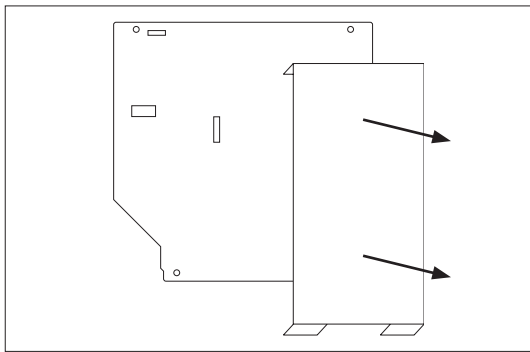
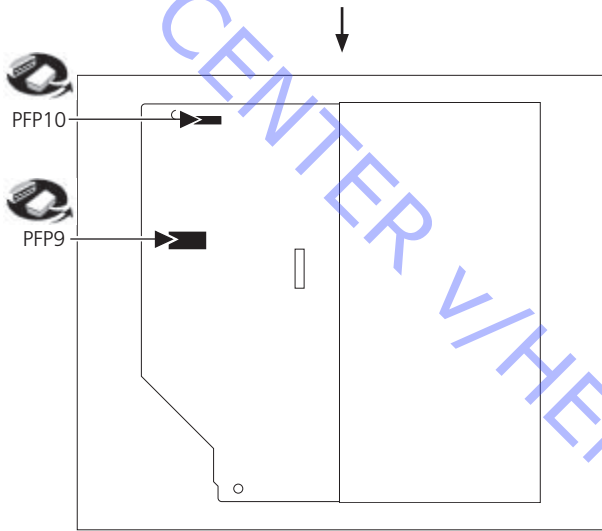


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Replacement of PCB PF, Line Filter

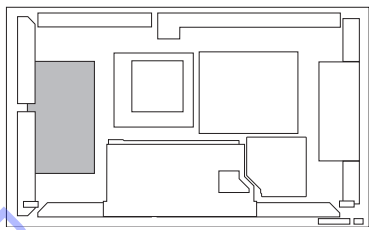


▶ Plasma Display Panel in service position

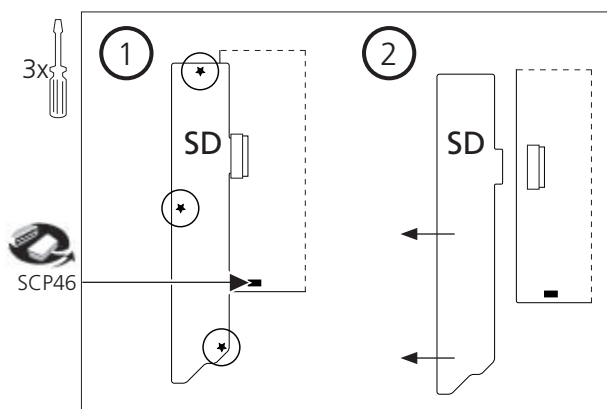
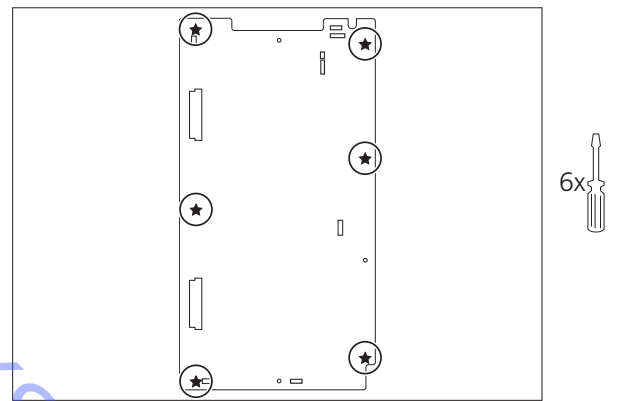
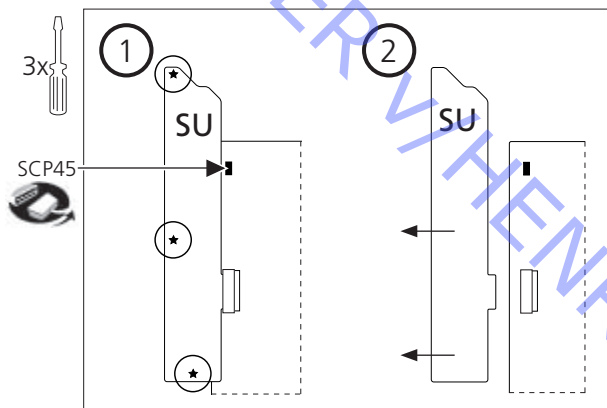
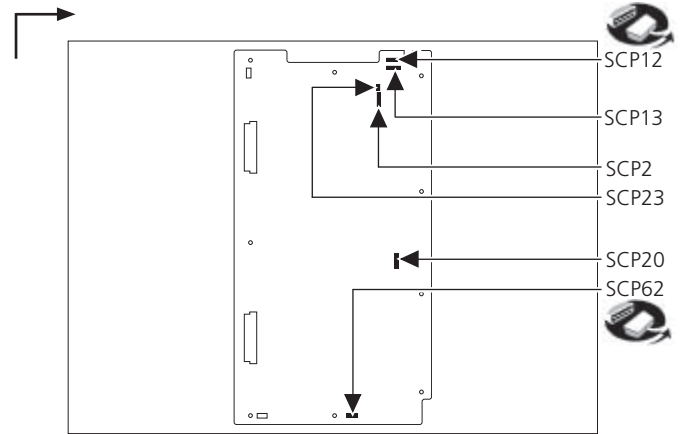


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Replacement of PCB SC, Scan Out

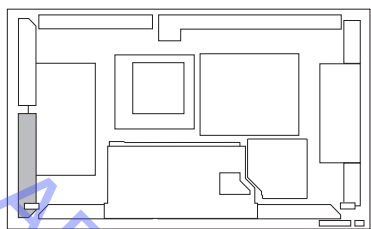


Plasma Display Panel in service position

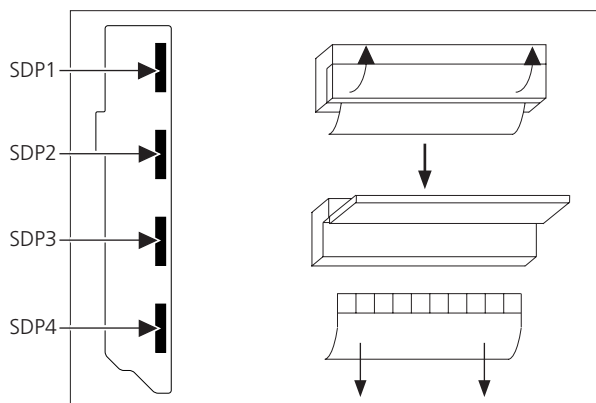
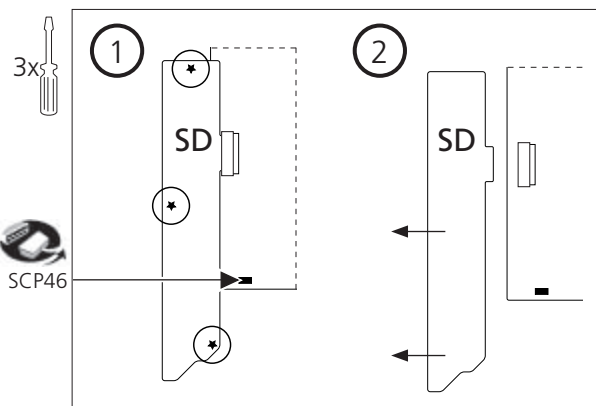
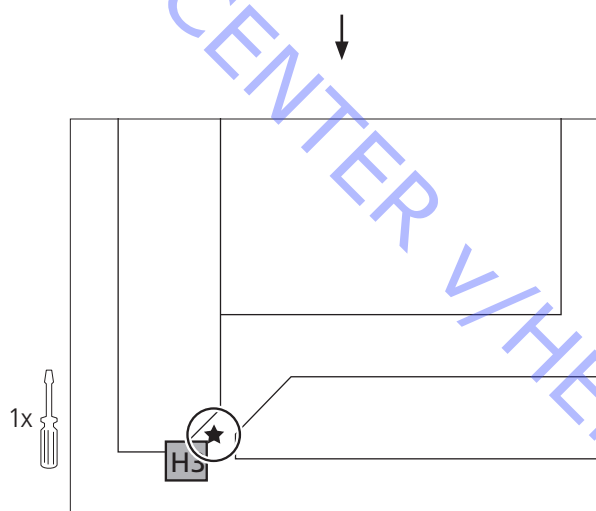


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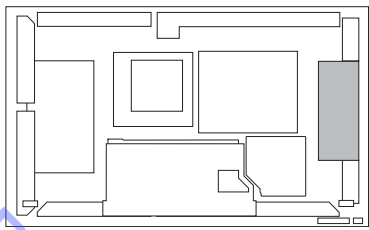
Replacement of PCB SD, Scan Connection (Lower)



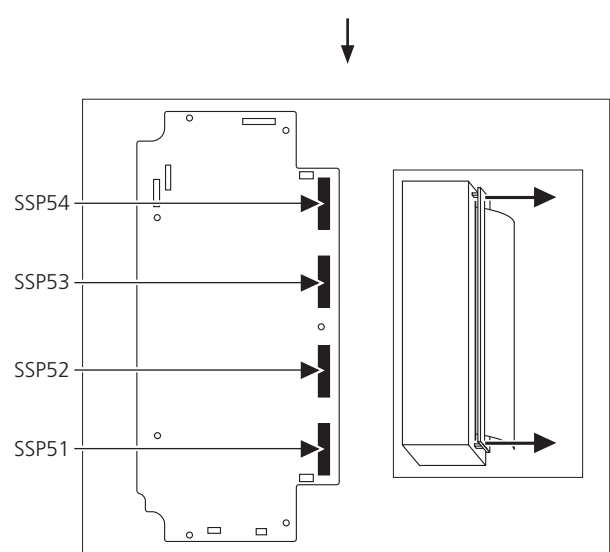
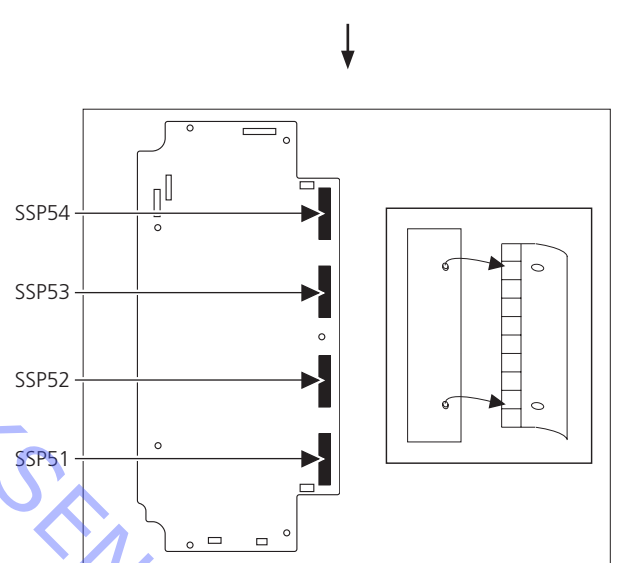
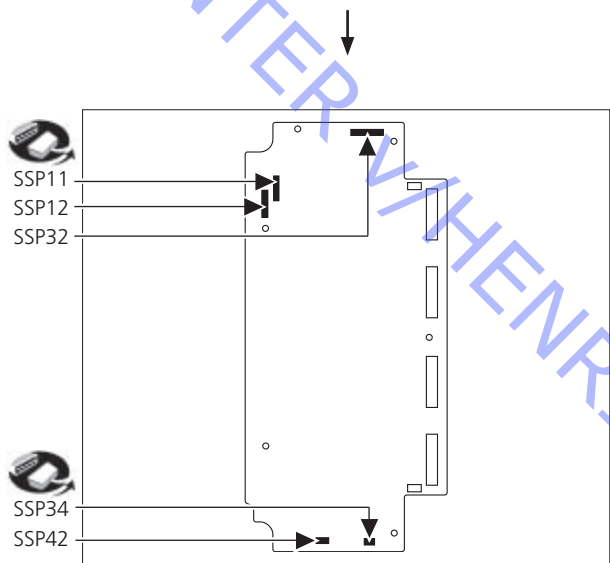
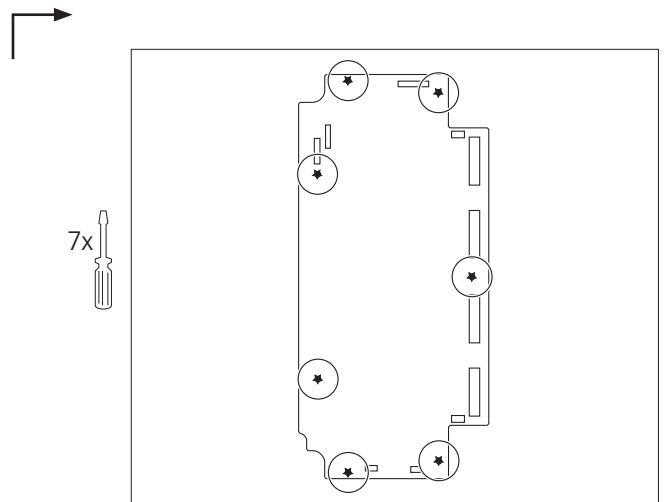
➔ Plasma Display Panel in service position



Replacement of PCB SS, Sustain Out

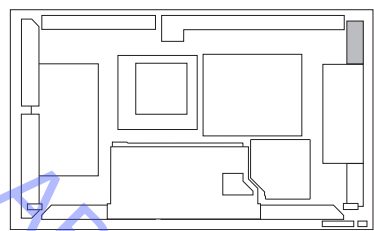


- ➔ Plasma Display Panel in service position
- ➔ Remove PCB SS2
- ➔ Remove PCB SS3

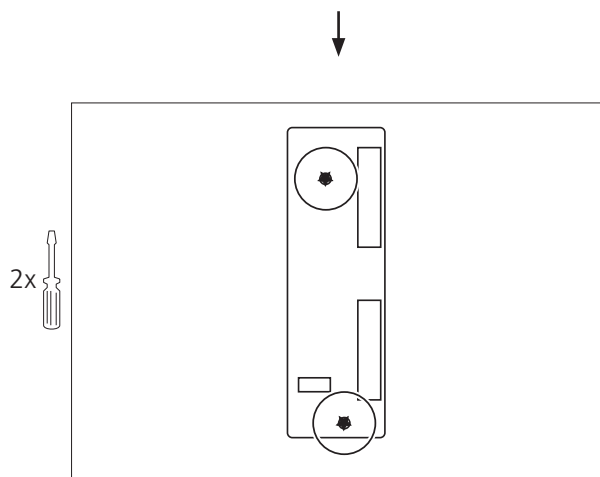
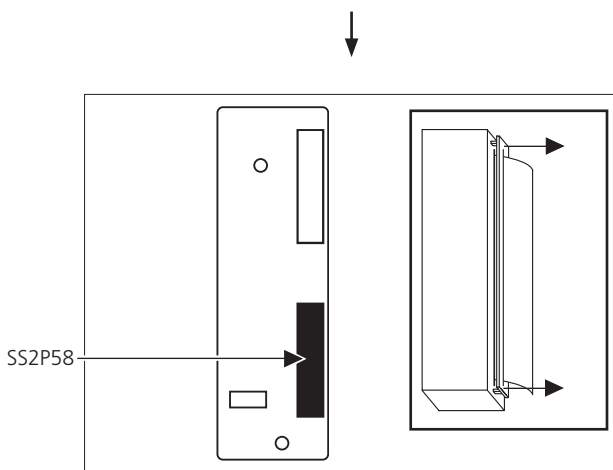
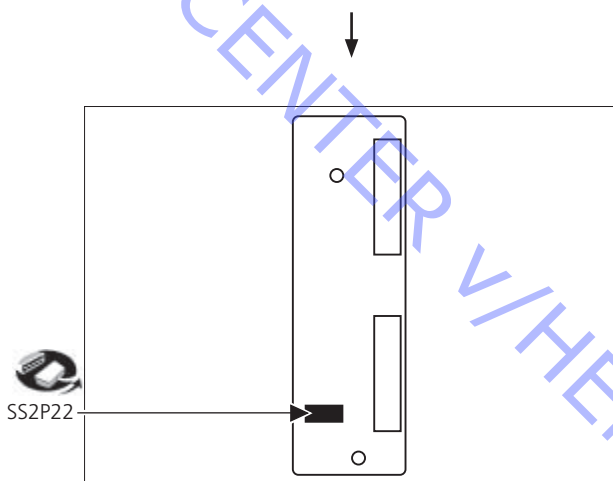
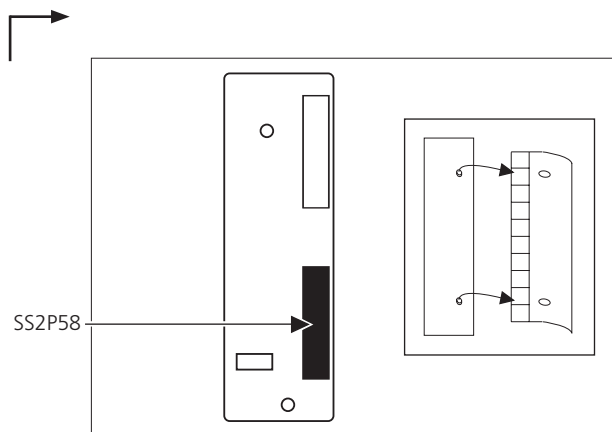


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Replacement of PCB SS2, Sustain Connection (Upper)

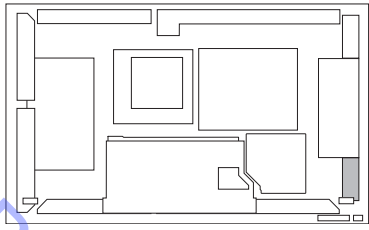


Plasma Display Panel in service position

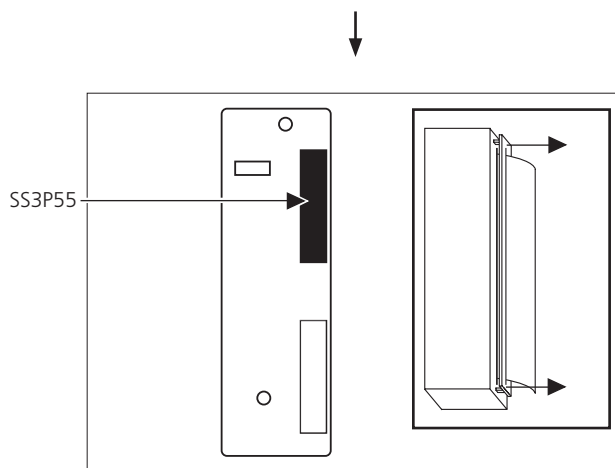
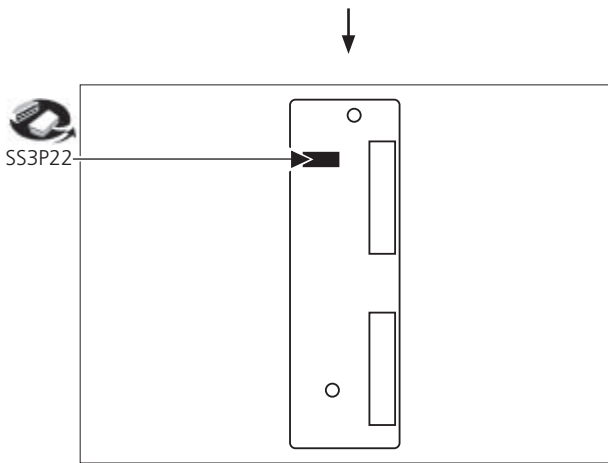
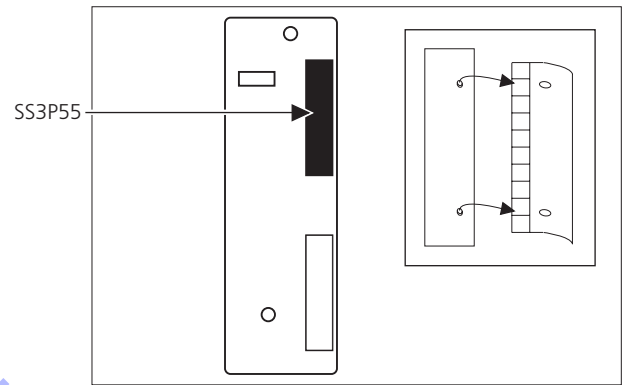
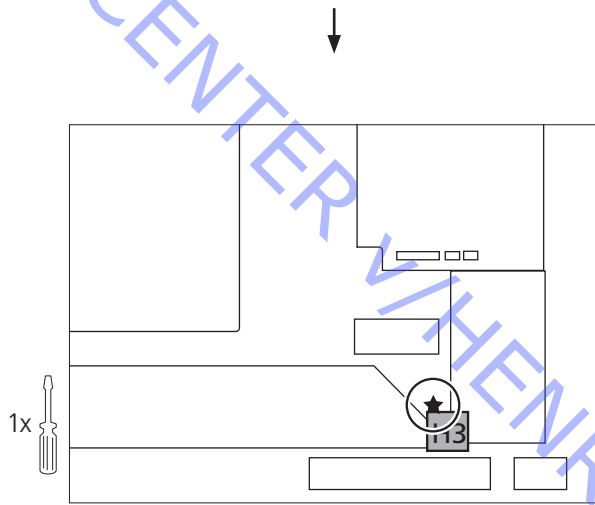
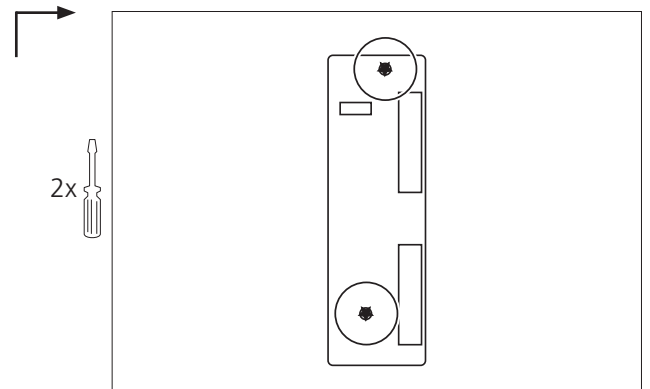


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Replacement of PCB SS3, Sustain Connection (Lower)

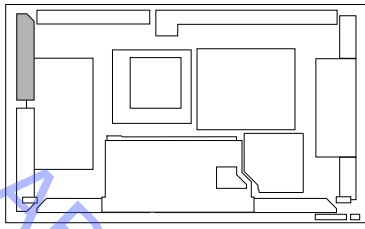


Plasma Display Panel in service position

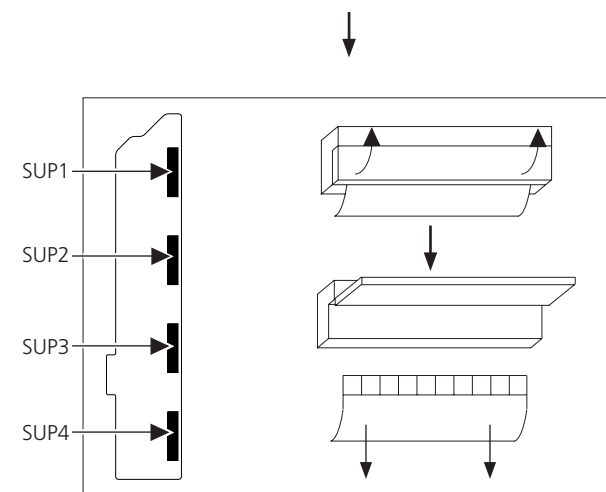
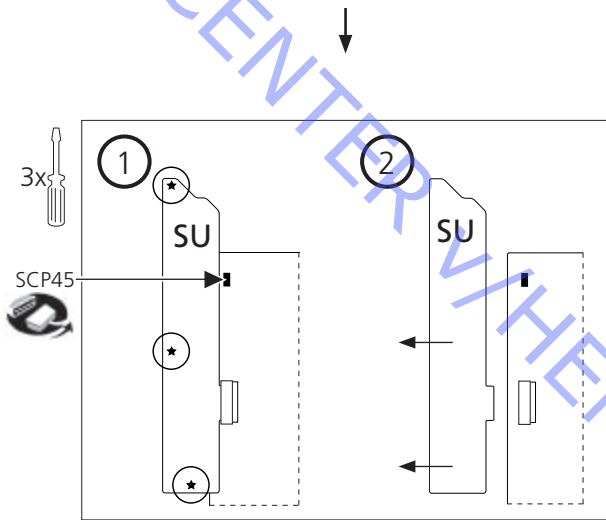


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Replacement of PCB SU, Scan Connection (Upper)

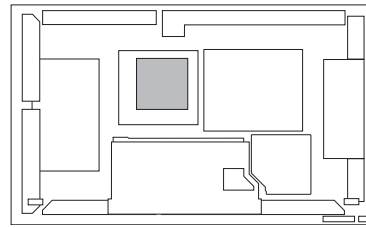


➔ Plasma Display Panel in service position





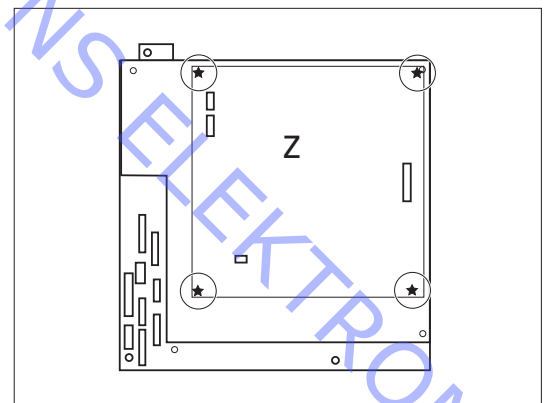
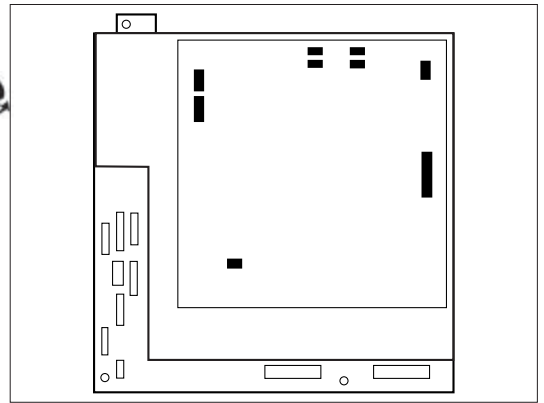
Replacement of PCB Z, Audio Out



➔ Plasma Display Panel in service position



- ZP5
- ZP6
- ZP7
- ZP8
- ZP10
- ZP30
- ZP31
- ZP32
- ZP33



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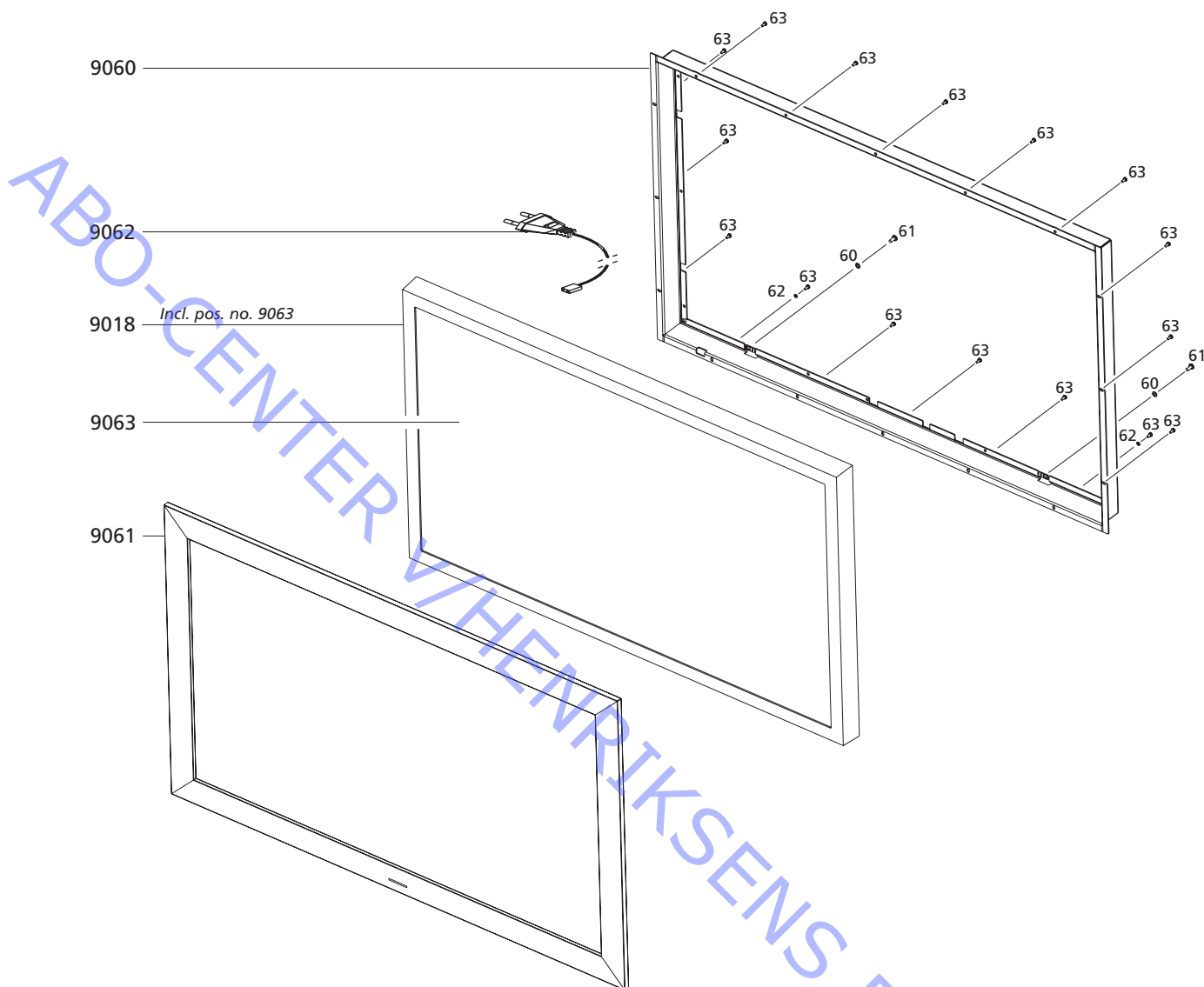
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<b>Specification guidelines for service use</b>	<b>Plasma Display Panel – 42HD, Type D7</b>
Mains voltage	120V (90V – 132V) 60Hz 230V (198V – 264V) 50Hz
Power consumption	Typical: 315 W, standby 1W, power off: 0.3W
Dimensions (W x H x D) / Weight	1002mm x 610mm x 89mm / 29.5kg (65Lb.)
Plasma display panel	AC type 16:9 aspect ratio
Brightness	320 cd/m <sup>2</sup>
Contrast ratio	3000:1
Viewing angle	160°
Screen size (W x H x diagonal)	920mm x 518mm x 1056mm (42")
No. of pixels	786432 (1024 (W) x 768 (H)) [3072 x 768 dots]
Operations condition	
Temperature	0 °C – 40 °C (34 °F – 104 °F)
Humidity	20% – 80%
Max. altitude	760 hPa or above
Connections	
PC In (D-SUB 15 pin)	
R/G/B	0.7V-pp 75 Ohm
HD/VD	1 – 5 V-pp high impedance
Horizontal scanning frequency	15 – 110 KHz
Vertical scanning frequency	48 – 120Hz
Serial (D-SUB 9 pin)	RS-232C

ABENTR V HENRIKSENS ELEKTRONIK

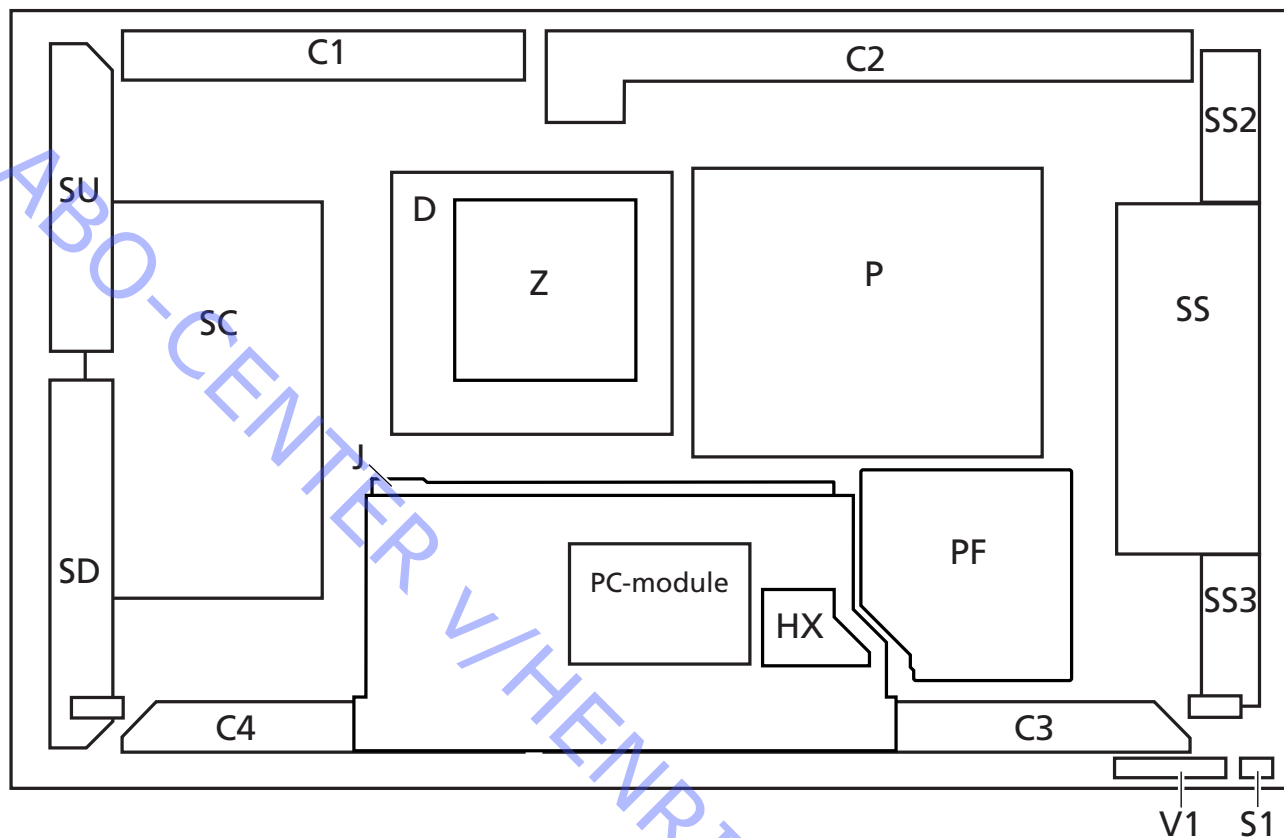
ABO-CENTER V/HENRIKSENS ELEKTRONIK

BeoVision 4 – 42



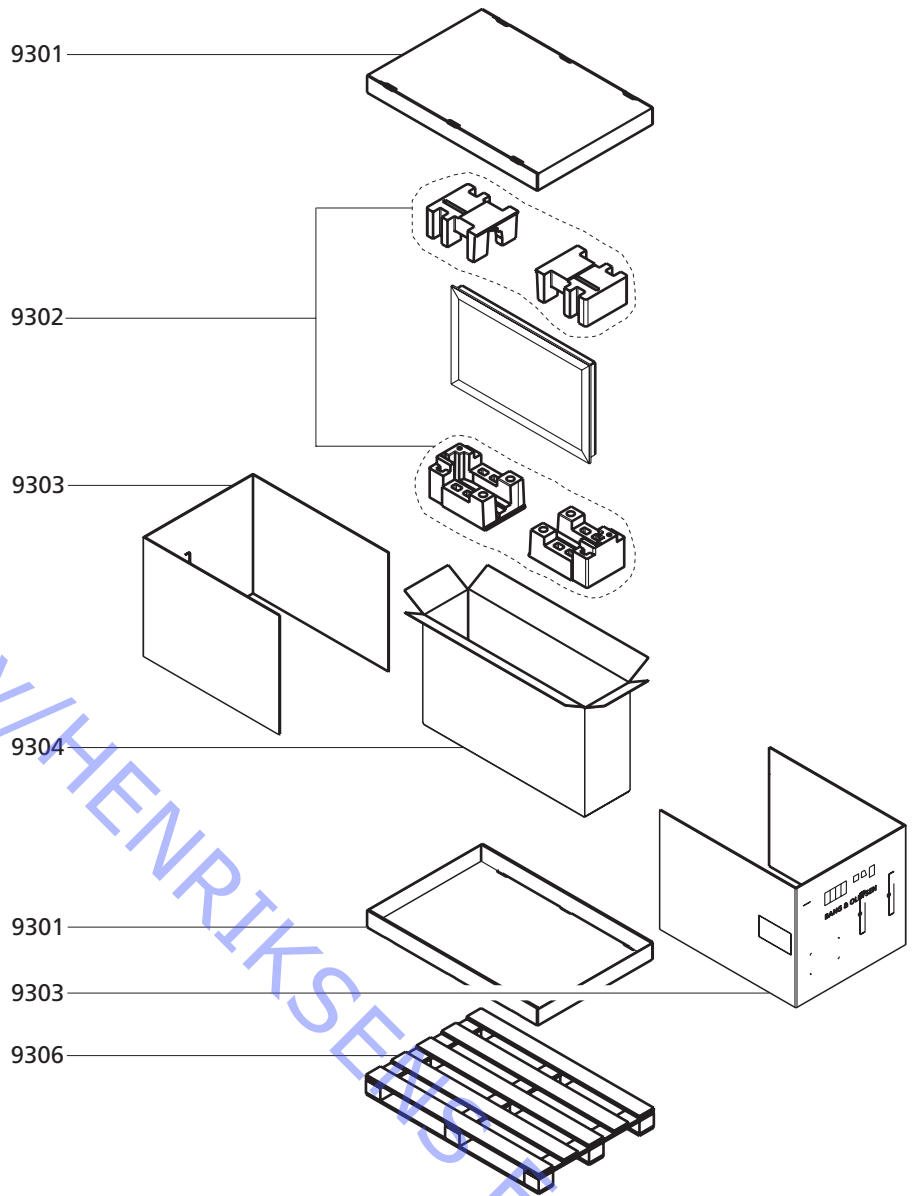
9018	8200122	Plasma screen, complete
9060	3151464	Iron frame
9061	3320769	Aluminium frame, silver
	3320823	Aluminium frame, black
	3320824	Aluminium frame, dark grey
9062	6100036	Mains cable, DK
	6100026	Mains cable, EU
	6100028	Mains cable, I
	6100029	Mains cable, CH
	6100035	Mains cable, UK
	6100033	Mains cable, AUS
	6100052	Mains cable, US
9063	3451726	Contrast screen
60	2625004	Washer
61	2058074	Screw 5 x 12mm
62	2625039	Washer
63	2015002	Screw 3.5 x 8mm

## Plasma Display Panel, modules



C1	8002196	PC Board C1
C2	8002198	PC Board C2
C3	8002199	PC Board C3
C4	8002202	PC Board C4
D	8003010	PC Board D
HX	8002217	PC Board HX
J	8002215	PC Board J
P	8003009	PC Board P
PF	8002225	PC Board PF
SC	8003012	PC Board SC
SD	8002211	PC Board SD
SS	8002212	PC Board SS
SS2	8002192	PC Board SS2
SS3	8002194	PC Board SS3
SU	8002213	PC Board SU
S1	8002226	PC Board S1
V1	8002273	PC Board V1
Z	8002221	PC Board Z
	8001386	PC Board TY-42TM6P, PC-module
F900	6600035	Fuse 250V 8A
F901	6600035	Fuse 250V 8A
F902	6600034	Fuse

Packing



9301	3392702	Outer box, top/bottom
9302	3396268	Set of 4 foam corners
9303	3392207	Outer box, side
9304	3392324	Carton f/PDP
9306	3392707	Pallet
	3375424	Tip and tell

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## Accessories

6270099 RGB/RS 232 cable, 5m black  
 6270115 RGB/RS 232 cable, 10m black  
 6270116 RGB/RS 232 cable, 15m black  
 6270117 RGB/RS 232 cable, 20m black

## Back-up suitcase

3395262 Back-up suitcase

## Parts not shown

3375066 Product cover  
 3375289 Service stand - order 2 pcs.  
 8053466 Special remote control  
 3375706 Micro fibre cloth  
 3390436 Bag w/wall bracket f/IR sensor  
 3390519 Bag w/rear plate f/IR sensor  
 6270758 Wire f/IR sensor, 5m  
 8089110 IR sensor

## Available documentation

See Retail System

## Wall Bracket 1407166

3504634 Guide  
 2622027 Insulating spacer  
 2622029 Toothed washer  
 2380002 Pan head bolt  
 2030001 Screw M5  
 3040006 Allen key

## Wall bracket 1407866

3507702 Guide  
 3390050 Bag w/parts  
 3392404 Outer carton  
 3396296 Foam

## Table stand 1407966

3507703 Guide  
 3375112 Screw 5 x 30mm  
 3392374 Outer carton  
 3396305 Foam corner  
 3396306 Foam block



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