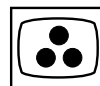


THOMSON MULTI MEDIA

Brandt **FERGUSON** **SABA** **TELEFUNKEN** **THOMSON**

TV



SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

32WP95E

Plasma



WARNING : *Before servicing this chassis please read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Wysius 32WP95E - 0402



Do not disconnect modules when they are energized!

Repairs on power supply section are to be carried out only with isolating transformer.

Ne pas retirer les modules lorsqu'ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement.

Module nicht bei eingeschaltetem Gerät entfernen!

Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.


Non scollegare le piastre quando sono alimentate!


Per le riparazioni sulla sezione alimentatore, utilizzare un trasformatore isolatore.


No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.




Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ) gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione dei componenti di sicurezza (evidenziati con il segno ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio. In tal caso è "esclusa la responsabilità" del costruttore.

La sustitución de elementos de seguridad (marcados con el símbolo ) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER :

On UHF, input level : 1 mV, bar test pattern :
- PAL, I standard, 100% white.

Via the scart socket, input level : 1 Vpp, bar test pattern :

Colour, contrast and brightness at mid-position, sound at minimum.
Programme selected : PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

RICEVITORE :

In UHF, livello d'entrata 1 mV, monoscopio barre :
- PAL, norma G, bianco 100%.

Via SCART, livello d'entrata 1 Vpp, monoscopio barre :

Colore, Contrasto, Luminosità media, Suono minimo.
Programma selezionato PR 01.

Tensioni continue rilevate rispetto alla massa con un voltmetro digitale.

RECEPTEUR :

En UHF, niveau d'entrée 1 mV mire de barres
- SECAM, Norm L, Blanc 100%.

Par la prise Péritélévision, niveau d'entrée 1 Vcc, mire de barres.

Couleur, contraste, lumière à mi-course, son minimum.
Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER :

Bei UHF Eingangspegel 1 mV, Farbbalken :
- PAL, Norm G, Weiss 100%.

Über die Scartbuchse : Eingangspegel 1 Vss, Farbbalken :

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

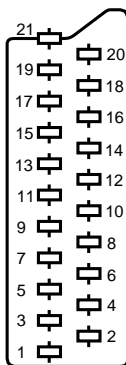
RECEPTOR :

En UHF, nivel de entrada 1 mV, mira de barras :
- PAL, norma G, blanco 100%.

Por la toma Peritelevision, nivel de entrada 1 Vpp mira de barra.

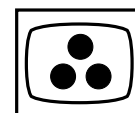
Color, Contraste, luz a mitad de carrera, Sonido mínimo.
Programa afectado PR 01.

Tensiones continuas marcadas en relación a la masa con un voltmetro digital.



	ENGLISH	FRANÇAIS	DEUTSCH	ITALIANO	ESPAÑOL
1 	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2 	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3 	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4 	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5 	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6 	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "S" MONO	AUDIO "I" MONO
7 	"BLUE"	"BLEU"	"BLAU"	BLU	AZUL
8 	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	"COMMUTAZIONE LENTA"	"CONMUTACION LENTA"
9 	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10 NC					
11 	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
12 NC					
13 	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
14 NC					
15 	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
16 	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
17 	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18 	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
19 	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20 	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRO	VIDEO O SINCRO
21 	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	INVOLUCRO METAL- LICO DELLA PRESA	BLINDAJE DEL ENCHUFE

 : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA •  : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA •  : EARTH - MASSE - MASSE - MASSA - MASA



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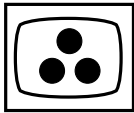
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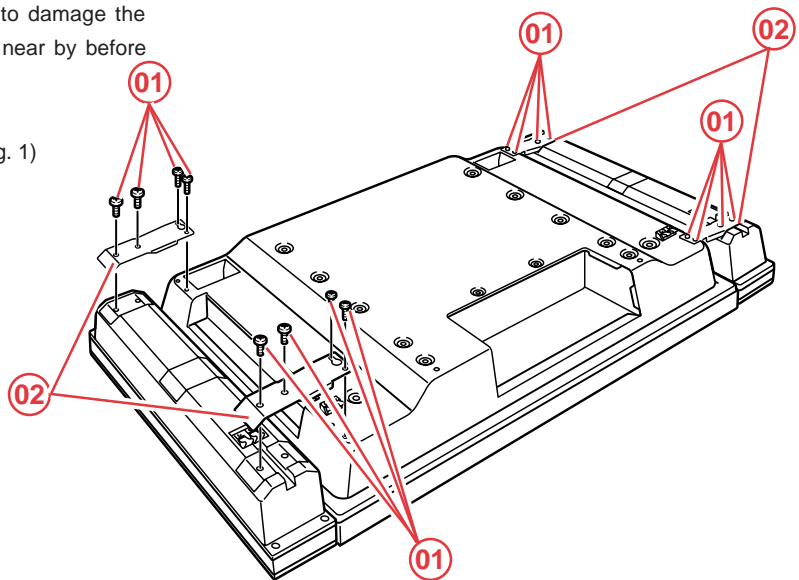
DISASSEMBLING THE MODULES

1. Removing the optional speaker

- Put the PDP Monitor Display with the screen face down on the flat desk.

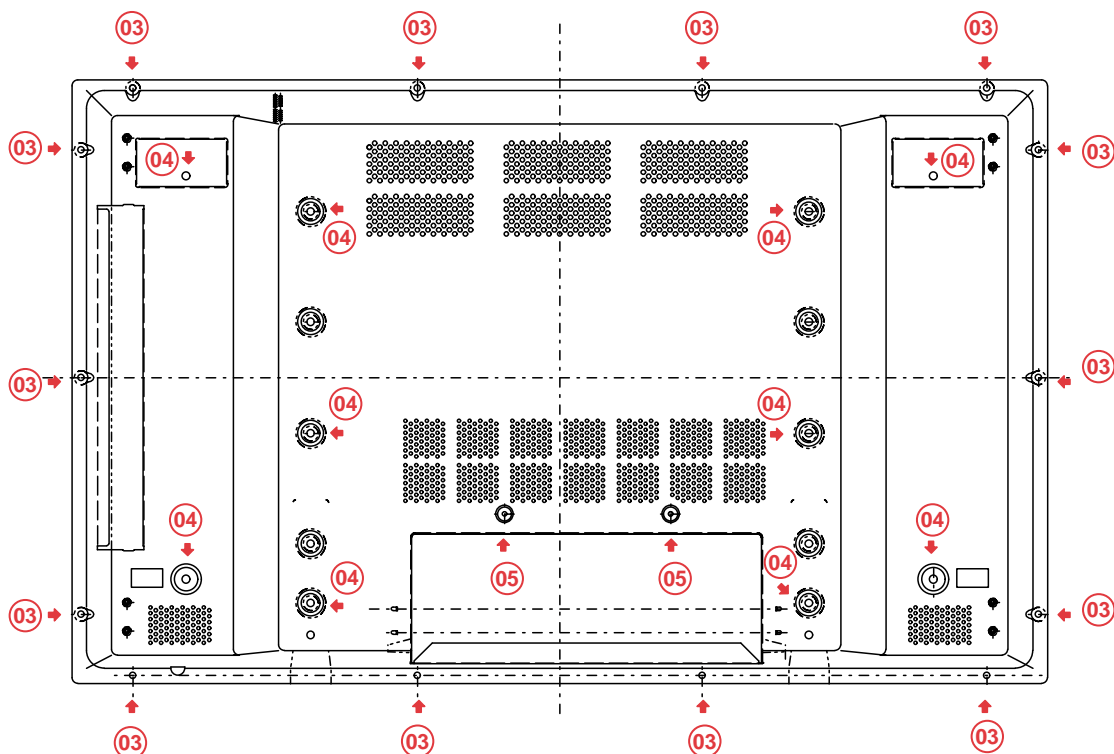
CAUTION : When placing the display with the face down, lay the soft cloth under the screen to protect the screen surface. And make sure there is nothing to damage the screen surface like a screw or small part near by before placing the display.

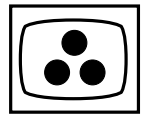
- Remove speaker lead wires (R & L).
- Remove 16 Screws (01) and 4 plates (02). (Fig. 1)



2. Removing the back panel

- Remove the 14 screws (03) (4X8), the 10 screws (04) (5X8) and the 2 screws (05) (3X8).
- Remove the back panel.



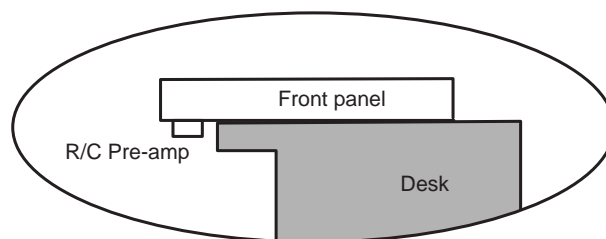
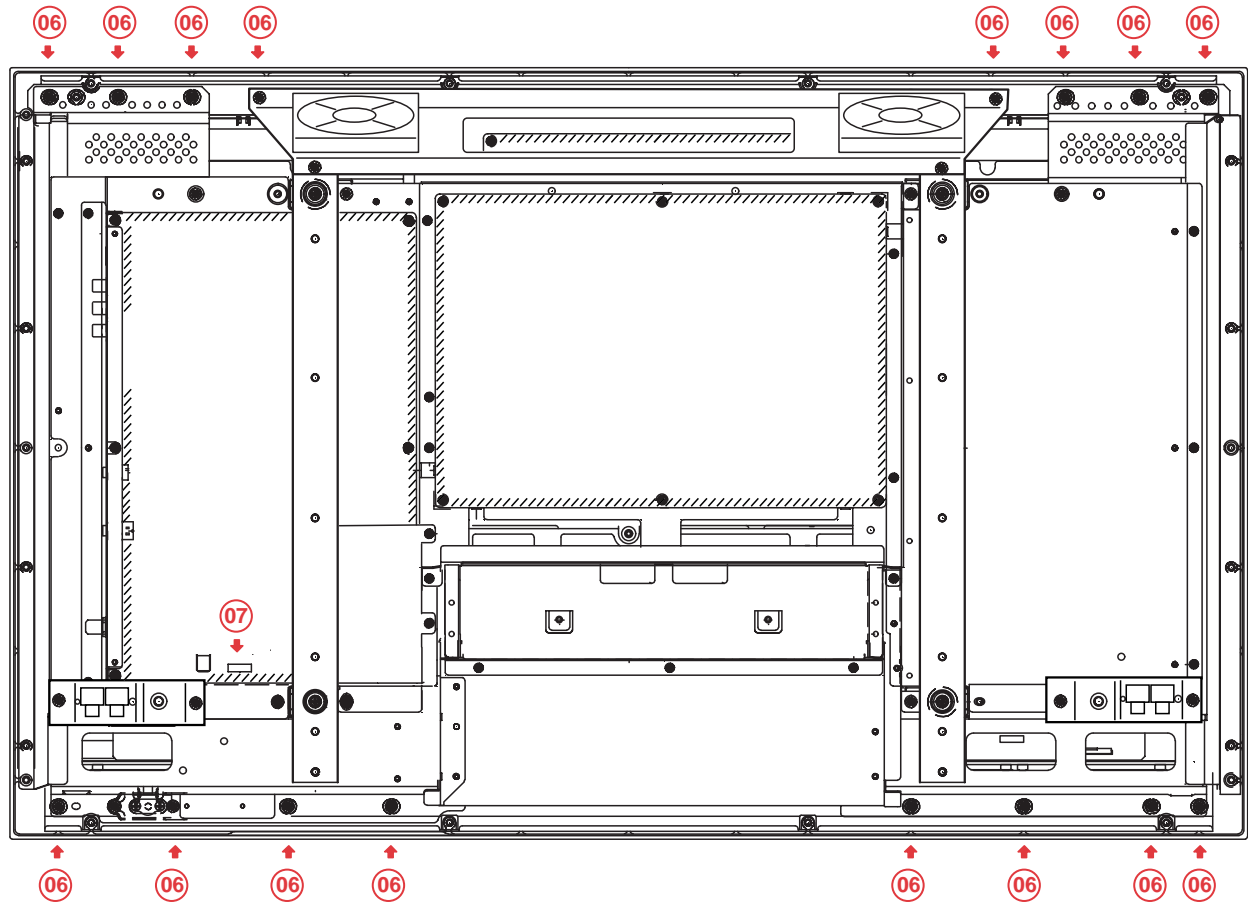


3. Removing the front panel

- Remove the 16 screws 06 (4X8),
- Remove the flat cable 07 from button unit to audio unit.
- Lift the chassis assembly up from the front panel and place it the face down to the desk on soft cloth.

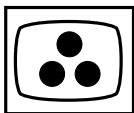
ATTENTION:

As R/C Pre-amp is projected from surface of the panel, it is necessary to place it out of desk as shown below.



ATTENTION:

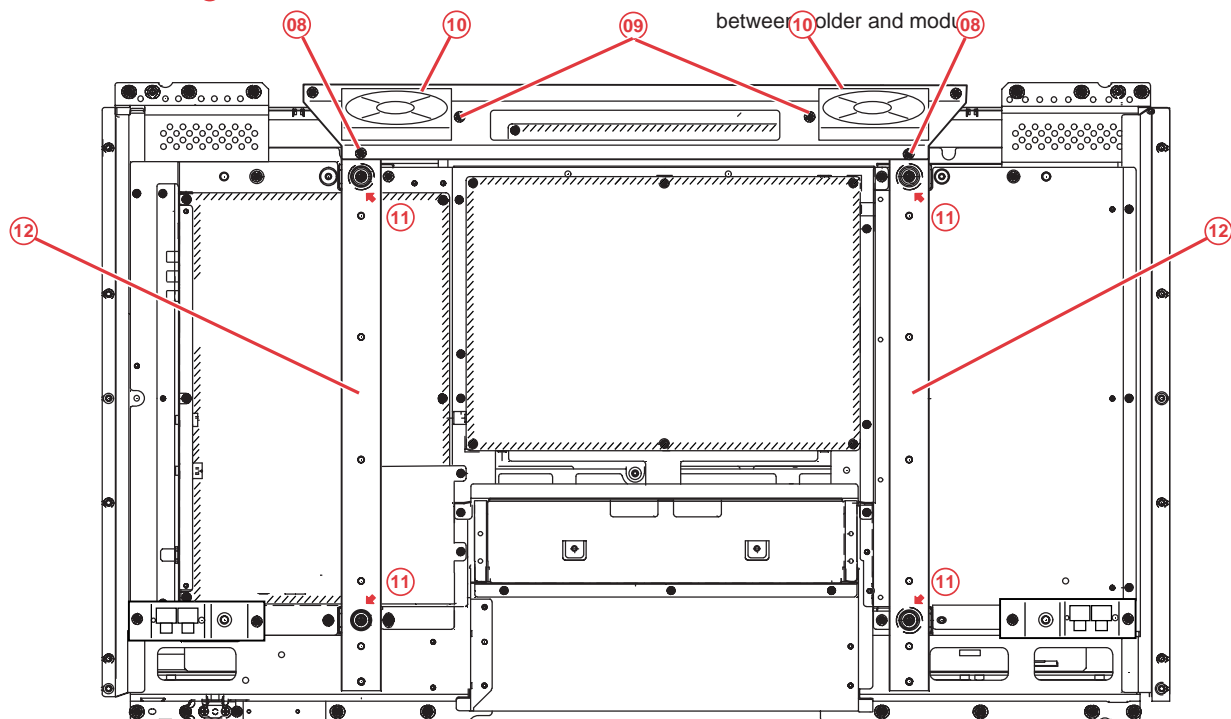
This PDP monitor is used the different kind of screw. Using correct screw is needed to avoid the damage.



4. Removing the chassis assembly

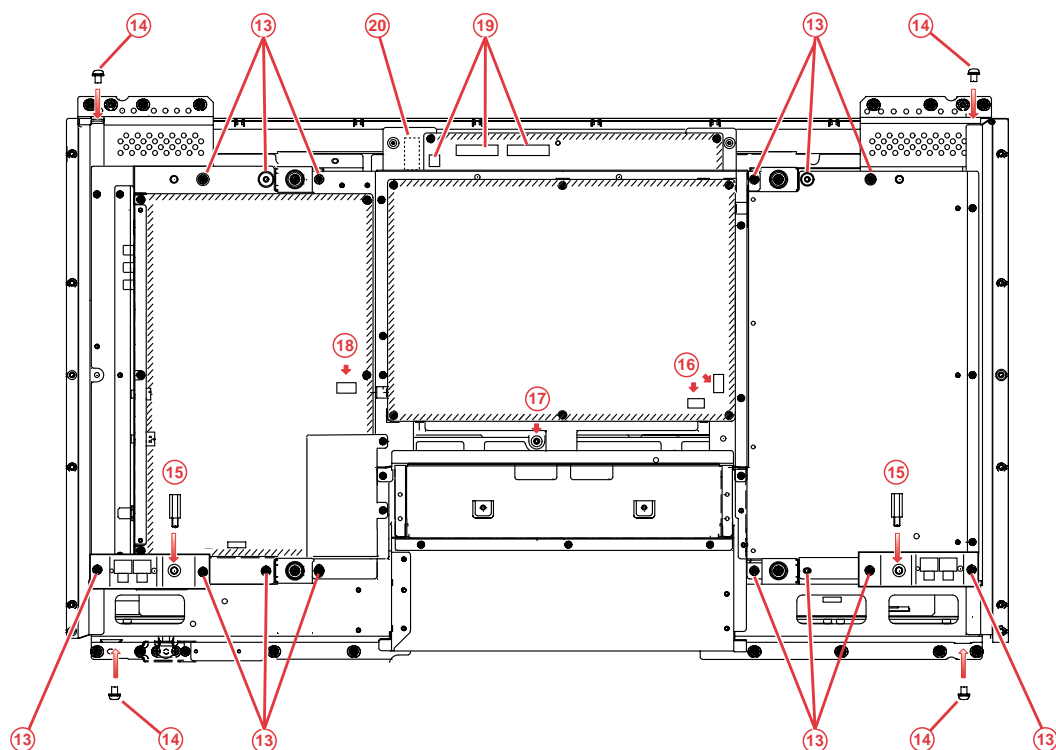
- Remove the 2 screws **08** (4X8 + 2 washers) and the 2 screws **09** (3X6)
- Remove fans **10** with holder plate.

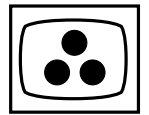
- Remove the 4 screws **11** (5X40)
- Remove the panel holders **12** and the spacers located between **10** older and mod **08**



- Remove the 14 screws **13** (6X12) and the 4 screws **14** (5X8),
- Remove the 2 hexagonal screws **15**,
- Slightly lift the chassis up,
- Disconnect the lead wire **16** between main unit and panel module from panel module side,
- Remove the fixing screw **17** of the 2 yellow-green wires (ground) from AC power connector and Panel Module,

- Disconnect the lead wire **18** between Audio Unit and panel module from panel module side,
- Disconnect the 3 connectors **19** (KPOW2, K6U and KPOW3) from power unit,
- Disconnect the connector **20** (KSENS1) of sensor unit,
- Lift the chassis assembly up from panel module.



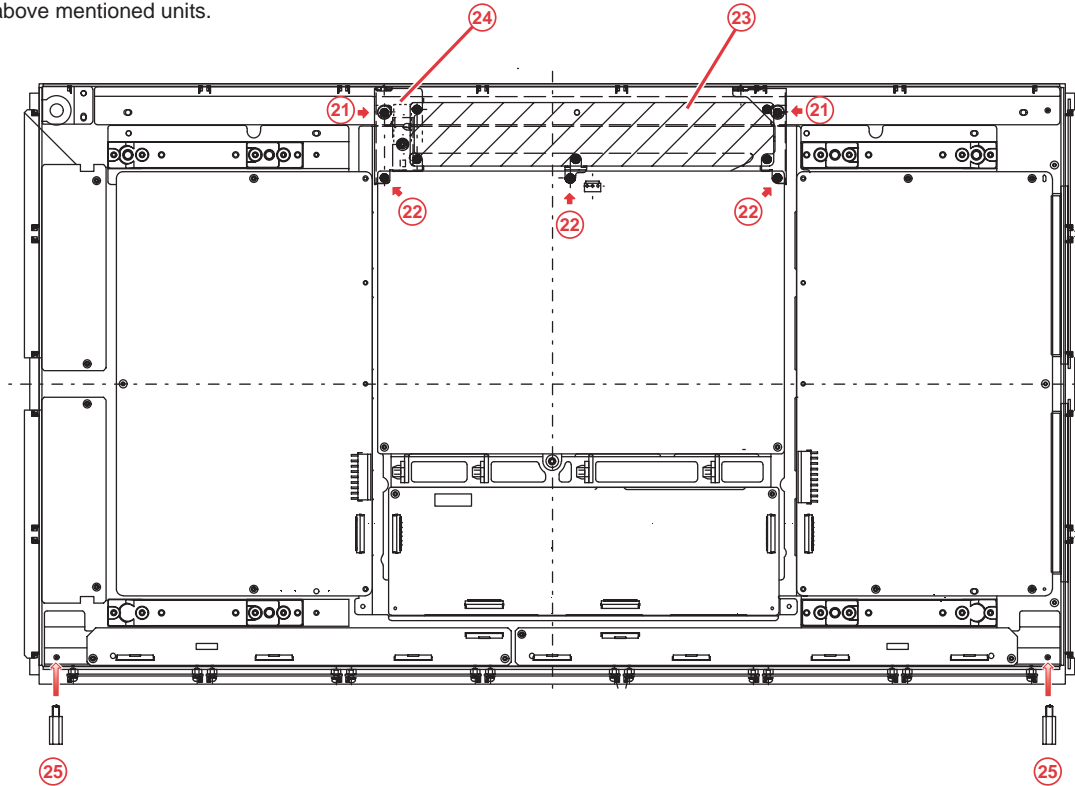


5. Removing the PDP module

- Remove the 2 screws (21) (3X8) and the 3 screws (22)
- Remove the power unit (23) and the sensor unit (24) with holder plate from PDP module.
- Fix the 3 screws (22) to PDP module after removing the above mentioned units.

- Remove 2 hexagonal screws (25) to remove the PDP module.

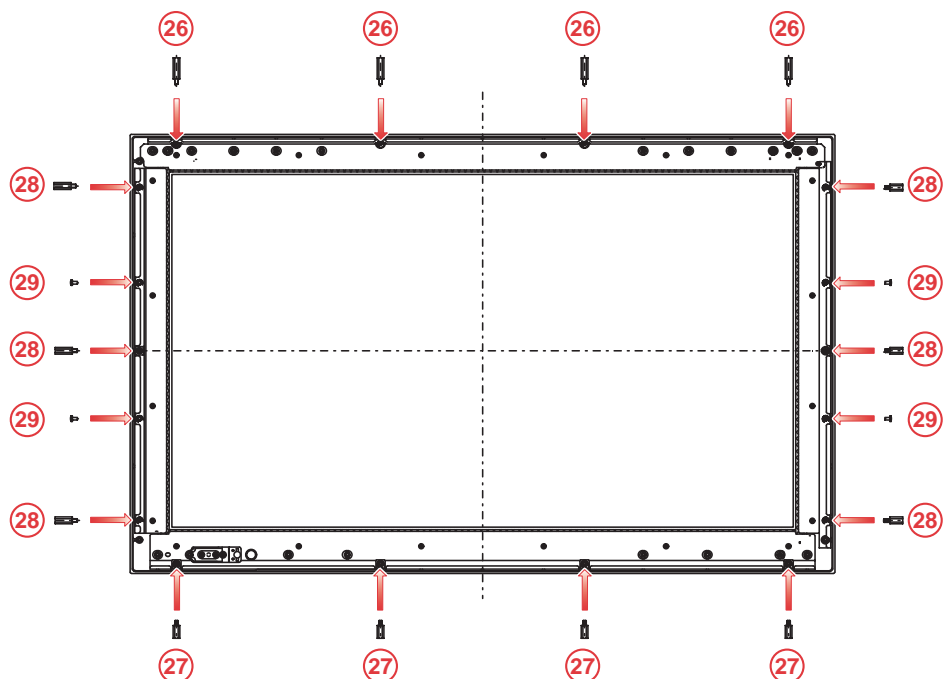
Note: cannot clean Panel surface or Optical Filter after assembling Panel Module, if caught the dust to them.

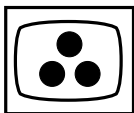


6. Removing the optical filter

The front cabinet includes optical filter to protect the panel from damage, to improve picture quality, or prevent exposure of interference.

- Remove the 4 screws (26),
- Unscrew the 4 screws (27),
- Remove the 6 screws (28),
- Remove the 4 screws (29)

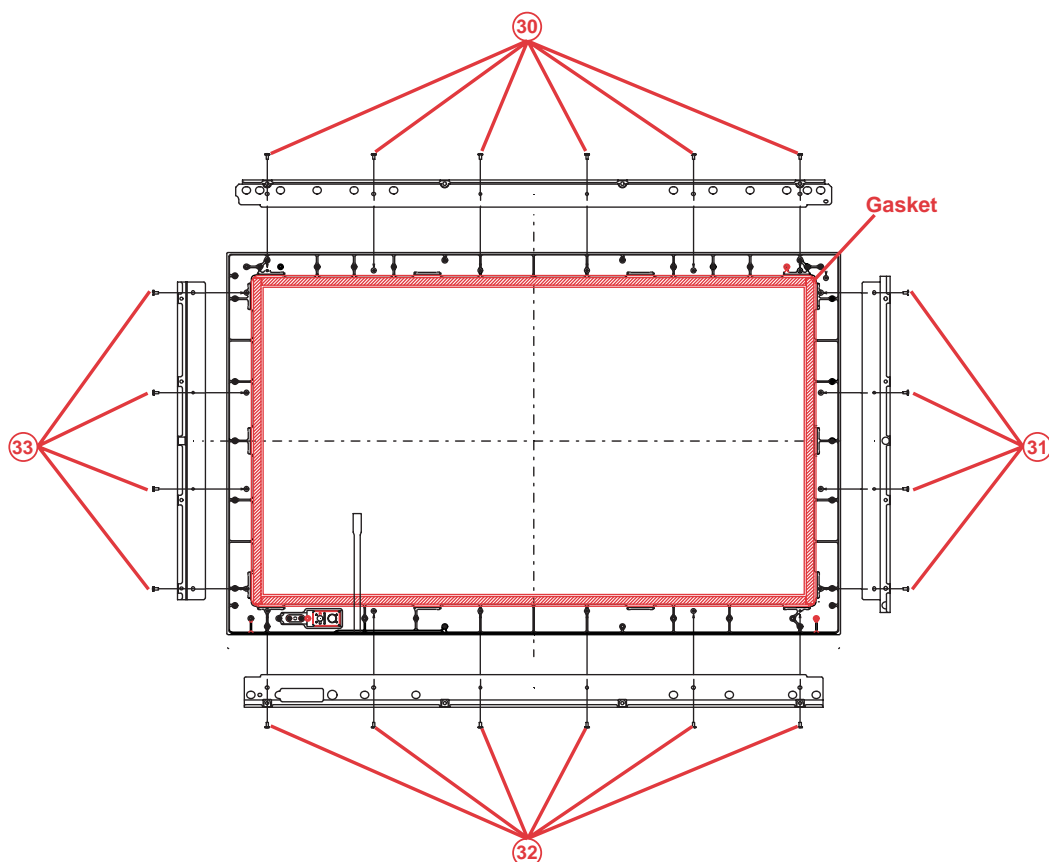




- Remove the 6 screws (30) and pull the top bracket,
- Remove the 4 screws (31) and pull the right bracket,
- Remove the 6 screws (32) and pull the bottom bracket,
- Remove the 4 screws (33) and pull the left bracket,

Note:

The optical filter is easy to be damaged. Do not touch directly by hand. If there is dust, remove it by watery neutral detergent.

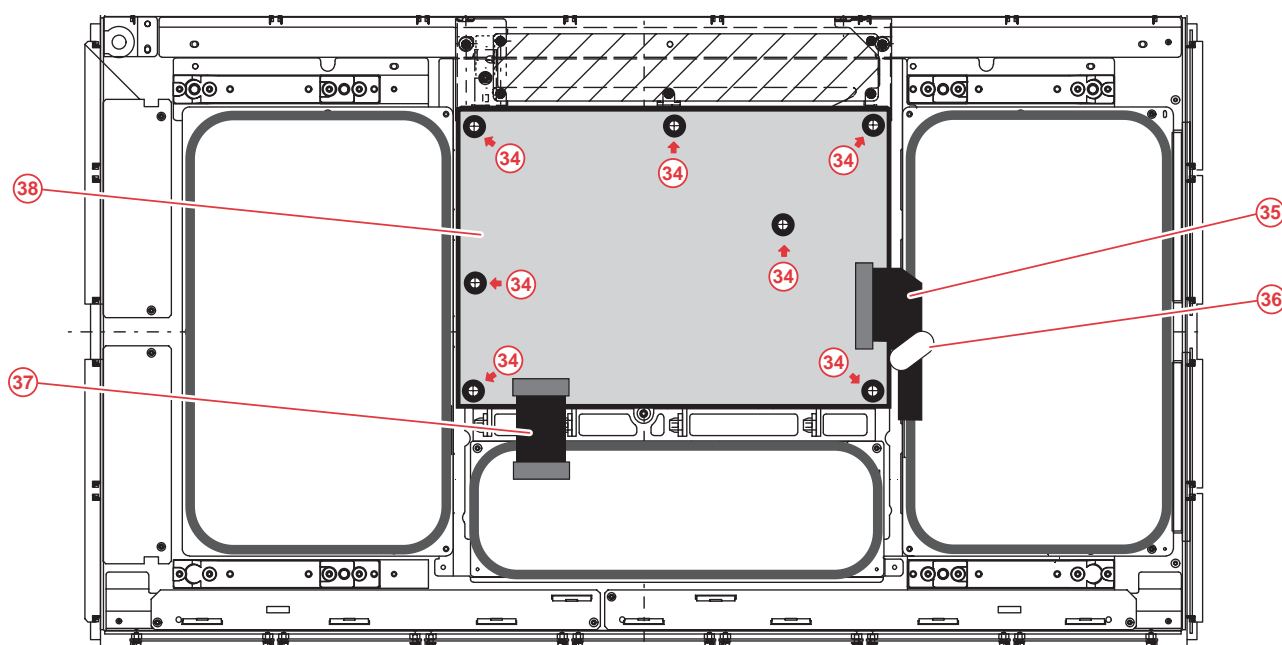


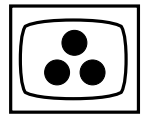
7. Removing the power module

When replacing the PDP module, the power module (38) must be removed from the old PDP module and reassembled on the new one. Proceed as follows:

- Remove the 7 screws (34) (3x6),

- Cut and remove the wire band (36),
- Disconnect the wire (35) from the power module,
- Take out the power unit.



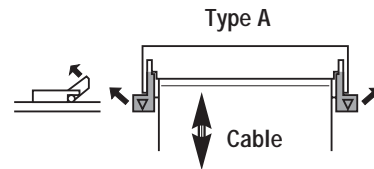


8. Removing the flat cables

This set use 3 kinds of connector for flat cable. To remove a cable and not to damage it, proceed as below.

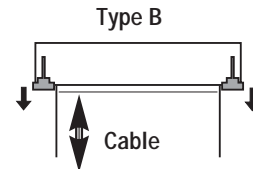
Type A:

- Lift up the hook on both sides and pull the flat cable to disconnect it.



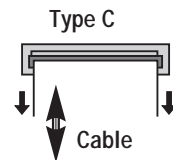
Type B:

- Slide the hook on both sides and pull the flat cable to disconnect it.

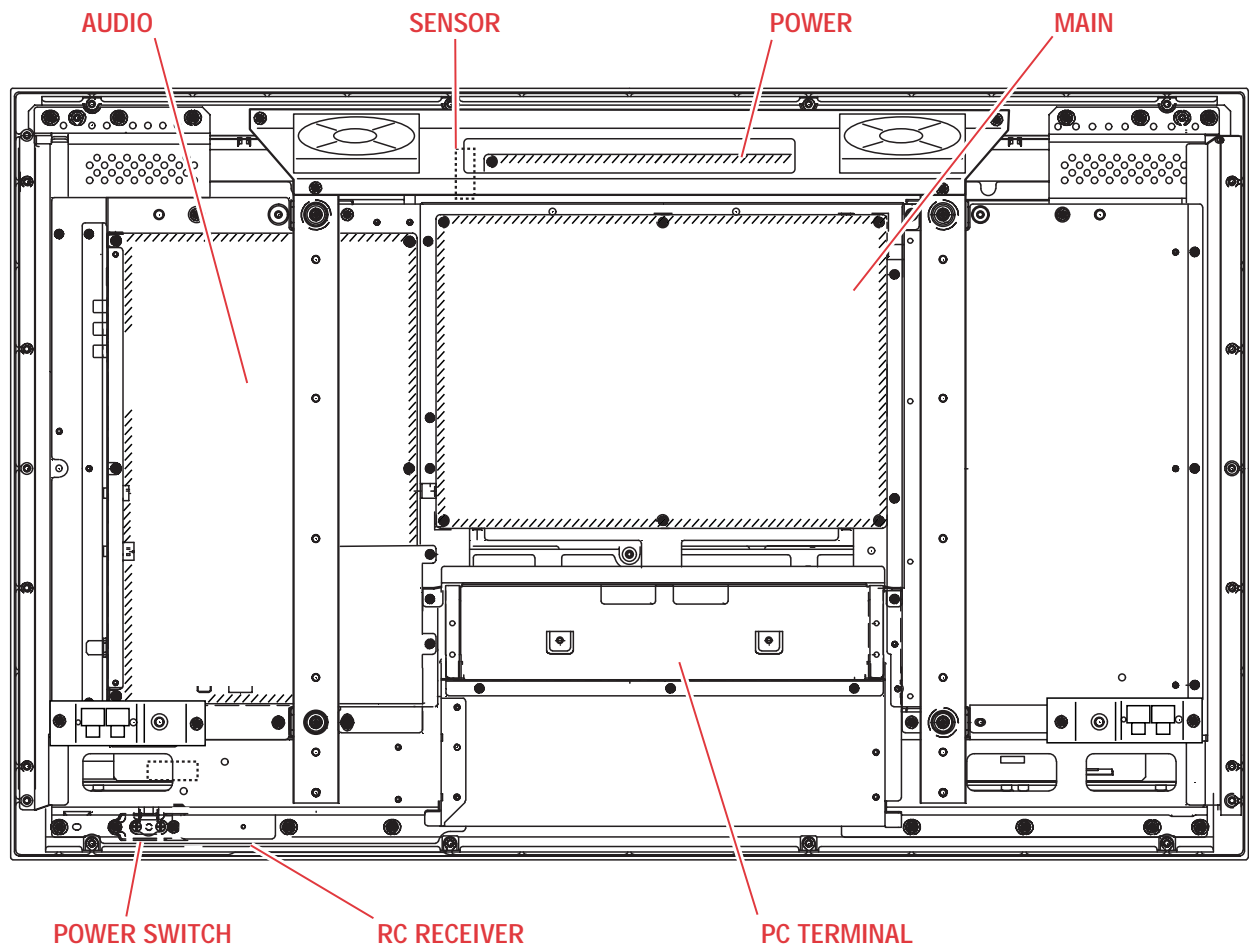


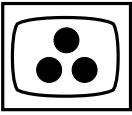
Type C:

- Pull the flat cable to disconnect it.

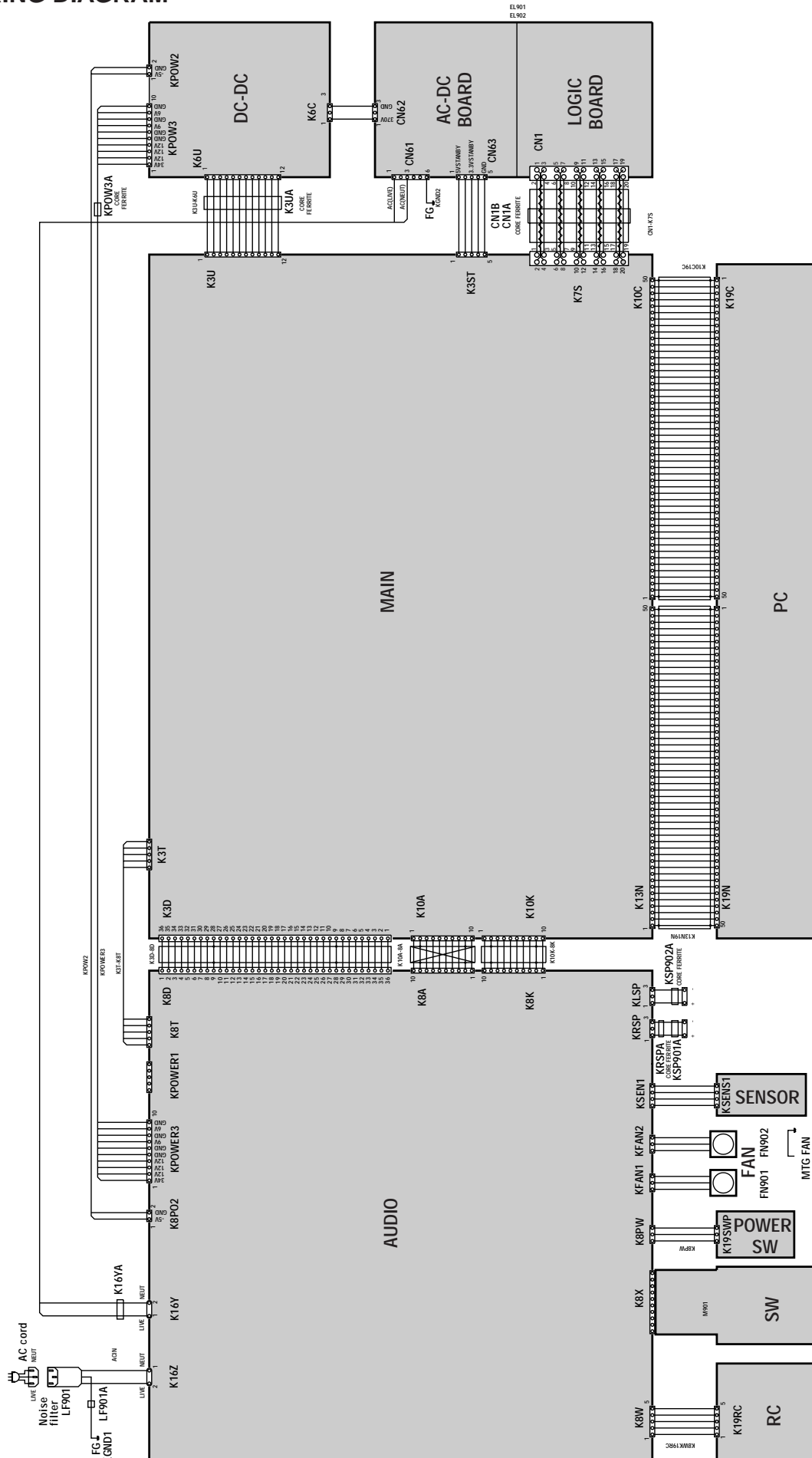


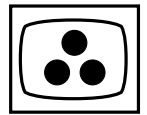
BOARD LOCATION





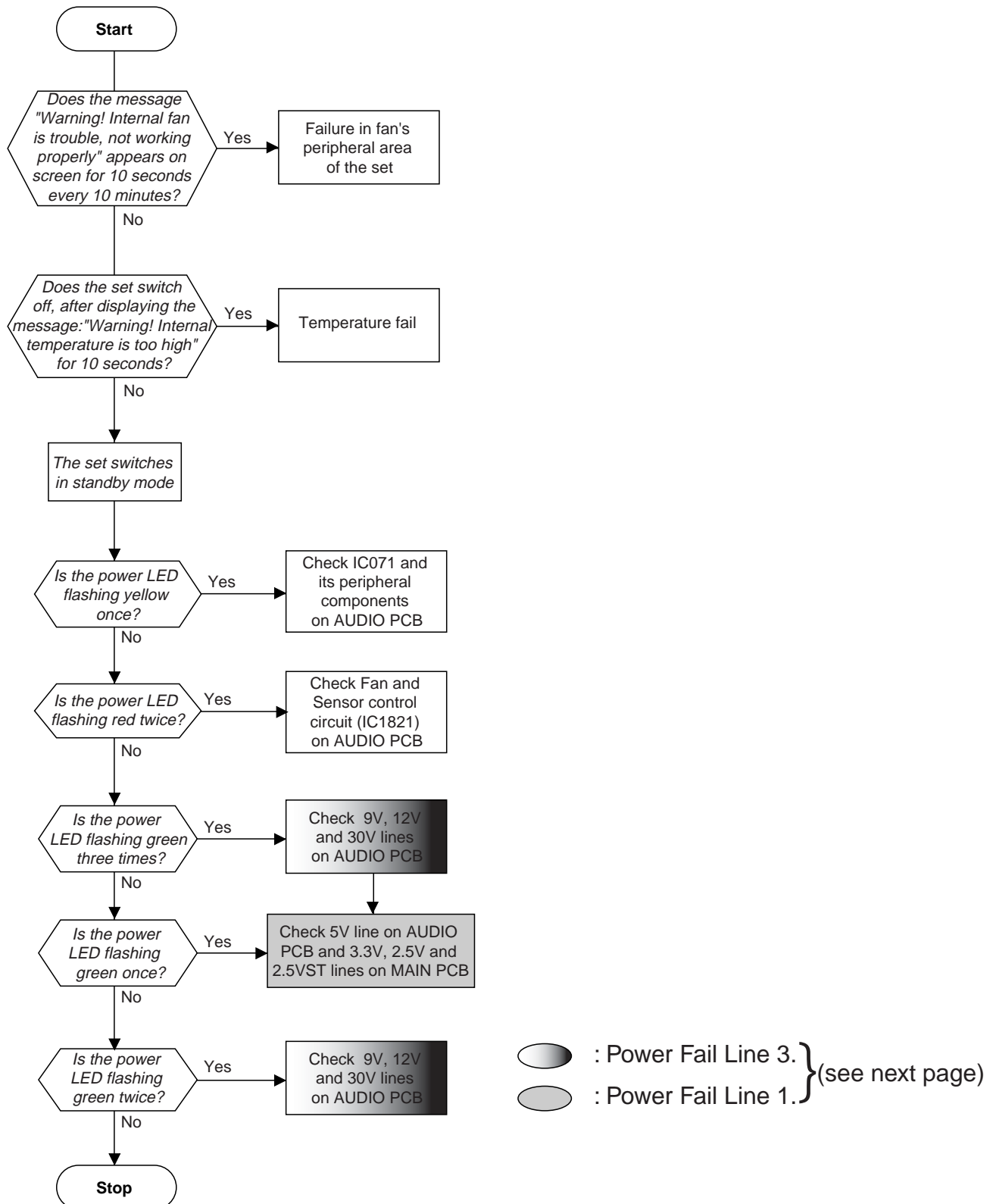
WIRING DIAGRAM

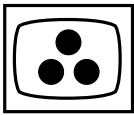




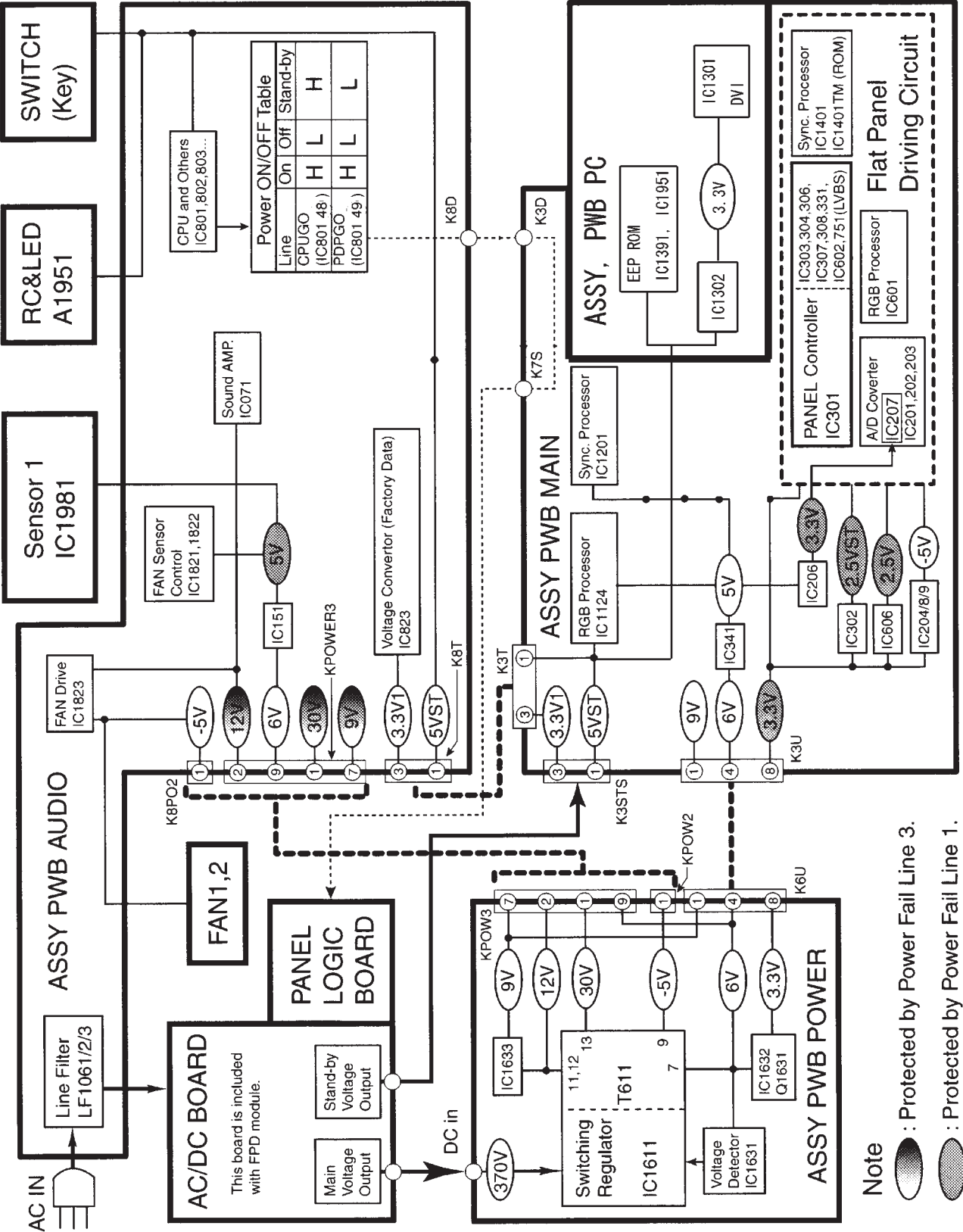
DIAGNOSTIC

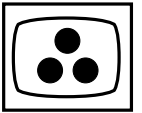
This set is equipped with a self-diagnostic function to detect power, audio amplifier, temperature and fan default. The trouble can be identified either by a flashing of the tricolour led or by a message displayed on screen.



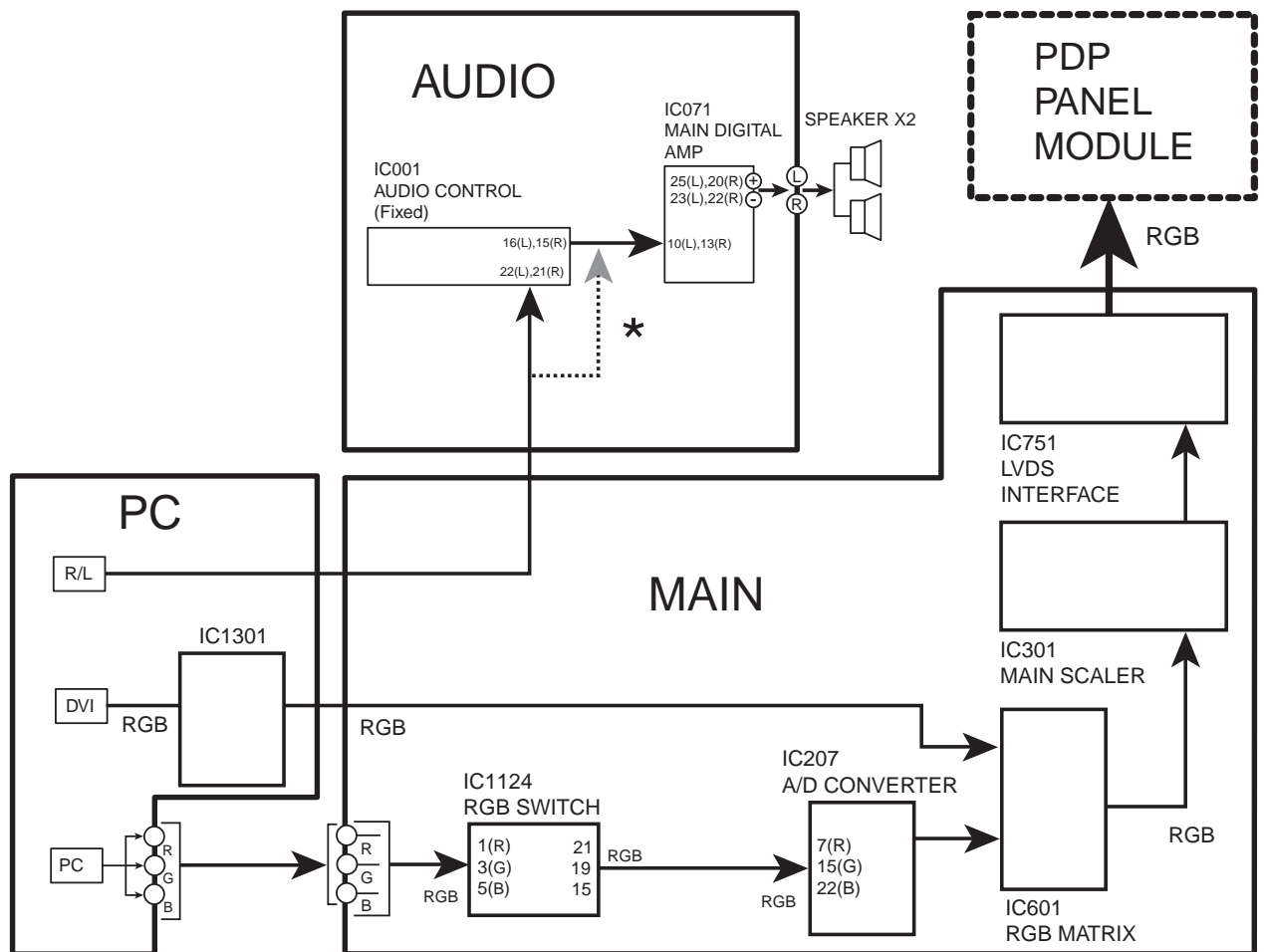


POWER BLOCK DIAGRAM

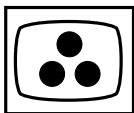




GENERAL BLOCK DIAGRAM



★ Depending on DVI version, this audio line is bypassed to avoid the Audio Control IC.



ADJUSTMENTS

All circuits have been adjusted in factory to make the monitor operating basically. These adjustments are controlled by the CPU (IC801) and memorized into the memory (IC808). When the audio board or the memory is replaced, the fixed data must be set and the white balance adjusted.

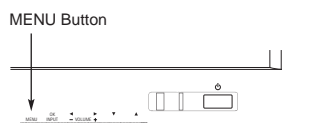
SERVICE MODE

It is necessary to enter the Service Mode in order to carry out alignment of the set. Most adjustments must be made with the RCU.

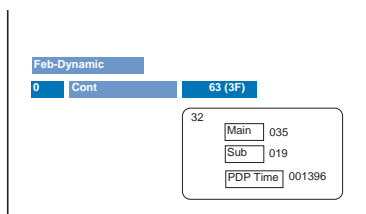
1 ACCESSING SERVICE MODE

The following operations must be done quickly:

- Switch the monitor on,
- Press and hold the MENU button on the monitor,



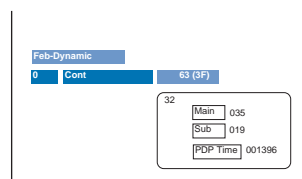
- Using the remote control, press the EXIT button and release it.
- Release the MENU button of the monitor.
- Press the MUTE button.
- The service mode menu appears on the screen.



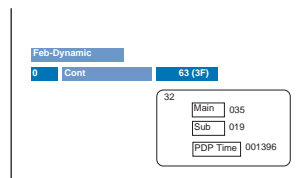
2 NAVIGATION INSIDE THE SERVICE MODE

Using the remote control:

- Press the \wedge / \vee buttons to select the adjustment.
- Press the \triangleright button to select the value of the adjustment.



- Press the \wedge / \vee buttons to adjust the value.
- Press the \triangleleft button to select the name of another adjustment.



NB : the value of the adjustment is memorized automatically into a non volatile memory.

3 EXITING FROM SERVICE MODE

- To exit the service mode menu press the power ON/OFF button on the monitor.

1. Setting the fixed data

- Make sure the received signal is good quality.
- Enter the service mode as above mentioned,
- Check the fixed data are corresponding to the data table on next pages and adjust if necessary,
- Exit the service mode.

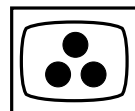
2. Adjusting the white balance

- Input signal 1.0Vpp/75 Ω terminated,
- White pattern,
- Screen size : full,
- Picture image level : natural

- Enter the service mode,
- Select alternatively adjustment n°69 (Cont FEB - red), n°70 (Cont FEB - green) and n°71 (Cont FEB - blue),
- Adjust alternatively to obtain a proper white balance,
- After adjustment, confirm the white balance with a normal picture.

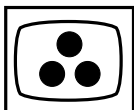
3. PDP power supply

The PDP module stores voltage information and send it to the power supply assembly to obtain the best voltage. Therefore it is not necessary to adjust the PDP power supply.



No.	Adjustment Name	Adjustment Item	Initial Data	Data Area		Note
				Min	Max	
0	FEB-Dynamic	Contrast	63	0	63	Picture Menu (Dynamic)
1		Brightness	31	0	63	
2		Color	45	0	63	
3		Tint	0	-31	32	
4		-----	--	--	--	
5	FEB-Standard	Contrast	50	0	63	Picture Menu (Natural)
6		Brightness	31	0	63	
7		Color	31	0	63	
8		Tint	0	-31	32	
9		-----	--	--	--	
10	FEB-Cinema	Contrast	31	0	63	Picture Menu (Cinema)
11		Brightness	31	0	63	
12		Color	26	0	63	
13		Tint	0	-31	32	
14		-----	--	--	--	
15	PC Graphic	Contrast	63	0	63	Picture Menu (Graphic)
16		Brightness	31	0	63	
17		Color	45	0	63	
18		Tint	0	-31	32	
19		-----	--	--	--	
20	PC Standard	Contrast	40	0	63	Picture Menu (Standard)
21		Brightness	31	0	63	
22		Color	31	0	63	
23		Tint	0	-31	32	
24		-----	--	--	--	
25	PC-Text	Contrast	31	0	63	Picture Menu (Text)
26		Brightness	31	0	63	
27		Color	26	0	63	
28		Tint	0	-31	32	
29		-----	--	--	--	
30	Sub Menu FEB	Contrast	60h	00h	FFh	FEB Input
31		Brightness	39h	00h	FFh	
32		Color-S	78h	00h	FFh	
33		-----	--	--	--	
34		Tint	00h	80h	7Fh	
35		-----	--	--	--	
36	Sub Menu PC	Contrast	60h	00h	FFh	
37		Brightness	39h	00h	FFh	
38		Color-S	80h	00h	FFh	
39		Tint	00h	80h	7Fh	
40		-----	--	--	--	
51	Color Temp H-FEB	Red	DCh	00h	FFh	FEB Color Temperature (High)
52		Green	F0h	00h	FFh	
53		Blue	FFh	00h	FFh	
54	Color Temp M-FEB	Red	FFh	00h	FFh	FEB Color Temperature (STD)
55		Green	FFh	00h	FFh	
56		Blue	FFh	00h	FFh	
57	Color Temp L-FEB	Red	FFh	00h	FFh	FEB Color Temperature (Low)
58		Green	EBh	00h	FFh	
59		Blue	CDh	00h	FFh	
60	Color Temp H-PC	Red	DCh	00h	FFh	PC Color Temperature (High)
61		Green	F0h	00h	FFh	
62		Blue	FFh	00h	FFh	
63	Color Temp M-PC	Red	FFh	00h	FFh	PC Color Temperature (STD)
64		Green	FFh	00h	FFh	
65		Blue	FFh	00h	FFh	

All data except in gray box area is fixed. Do not change for correct operating.
Data in gray box area is initial. Can be set according to adjustment information.



No.	Adjustment Name	Adjustment Item	Initial Data	Data Area		Note
				Min	Max	
66	Color Temp L-PC	Red	FFh	00h	FFh	PC Color Temperature (Low)
67		Green	EBh	00h	FFh	
68		Blue	CDh	00h	FFh	
69	Cont FEB	Red	FFh	00h	FFh	White Balance Adjustment
70		Green	F4h	00h	FFh	
71		Blue	D2h	00h	FFh	
72	Bright FEB	Red	80h	00h	FFh	Black Balance Adjustment
73		Green	80h	00h	FFh	
74		Blue	80h	00h	FFh	
75	Cont PC	Red	00h	00h	FFh	W/B (Differential Data to FEB)
76		Green	00h	00h	FFh	
77		Blue	00h	00h	FFh	
78	Bright PC	Red	00h	00h	FFh	B/B (Differential Data to FEB)
79		Green	00h	00h	FFh	
80		Blue	00h	00h	FFh	
93	Sharpness-PC	Sharpness	0	0	10	Filter
94	Sharpness-FEB1-50	Sharpness	10	0	10	Filter
95	Sharpness-FEB1-60	Sharpness	6	0	10	Filter
111	PDP COLOR8	PDP				Internal Pattern Display (Key)
112	PDP WHITE	PDP				Internal Pattern Display (Key)
113	Side Bar		81	0	225	Brightness od Side Bar

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