



Service Manual

LIQUID CRYSTAL DISPLAY TELEVISION



**LT-4260
(L423FR)**

The LT-4260 includes the L423FR, monitor and HD-6000, receiver controller. This manual covers the L423FR, monitor. For the receiver/controller, see the HD-6000 Service Manual

CAUTION:

Before servicing this chassis, it is important that the service person read the "SAFETY PRECAUTIONS" and "PRODUCT SAFETY NOTICE" contained in this manual.

SPECIFICATIONS

- **Power** : 120V, 60Hz, 350W (Includes AC Outlet-100W) Standby <5W
- **LCD Panel** : Size - 42" diagonal, 16:9
: Resolution - 1366 x 768
: Pixel Pitch - 0.227mm x 0.681 mm x RGB
- **Video Inputs** : 1 Composite or S-Video (NTSC)
: 1 Component (480i, 480p, 720p, 1080i)
: 1 HDMI™ (480p, 720p, 1080i)
- **PC Input** : 1 Mini D-sub 15 pin (VGA, SVGA, XGA, WXGA)
: Horiz: 31.5-80KHz, Vert: 55-75 Hz
- **Audio Inputs** : 1 Pair RCA (L&R) for Composite or S-Video
: 1 Pair RCA (L&R) for Component
: 1 Pair RCA (L&R) for DVI (Using HDMI Input)
: 1 3.5mm Mini-Jack for PC
- **Outputs** : 1 Headphone, 3.5mm Mini-Jack
: 1 USB (Memory Card data to HD-6000 only)
: 1 RS-232C (Control data for HD-6000 only)
- **Speakers** : Left & Right (2 X 5W) Woofer (10W)
- **Cabinet Dimensions / Weight**

With Stand:	Height	Width	Depth	Weight
	31.5"	44.1"	14.2"	108.0 lbs

W/O Stand or Speakers:	Height	Width	Depth	Weight
	29.8"	44.1"	4.9"	77.6 lbs

- Weight and dimensions shown are approximate.
- Design specifications are subject to change without notice.
- HDMI™ is a trademark of HDMI Licensing, LLC

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SCHEMATICS

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have special safety characteristics are identified in this service manual.

The replacement for any safety part should be identical in value and characteristics.

SAFETY PRECAUTIONS

NOTICE: Observe all cautions and safety related notes located inside the receiver cabinet and on the receiver chassis.

WARNING:

1. Operation of this receiver outside the cabinet or with the cover removed presents a shock hazard from the receiver's power supplies. Work on the receiver should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment.
2. Do not install, remove or handle the LCD panel in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while the panel is being handled. Keep the panel away from the body while handling.
3. When service is required, observe the original lead dress. Where a short-circuit has occurred, replace those components that indicate evidence of overheating.

Leakage current check

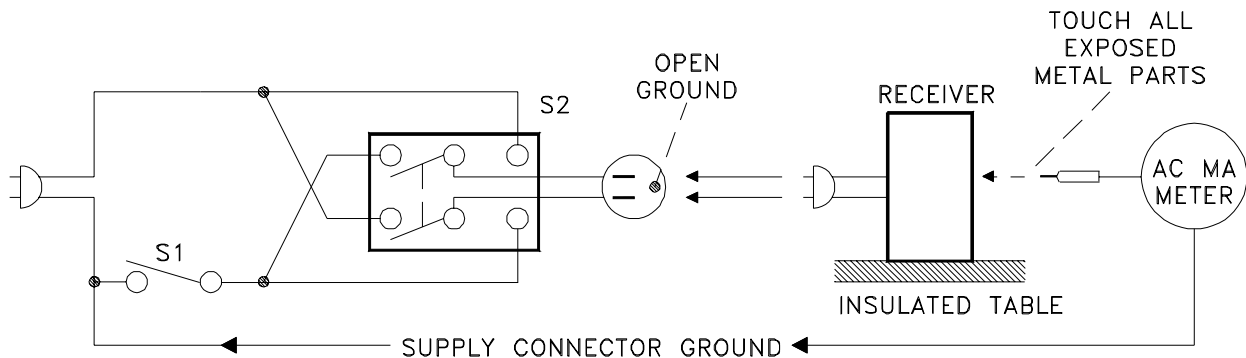
Before returning the receiver to the customer, leakage current should be measured using following methods.

1. Cold Check

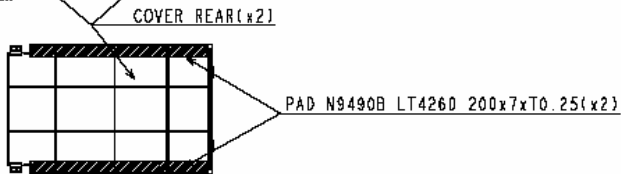
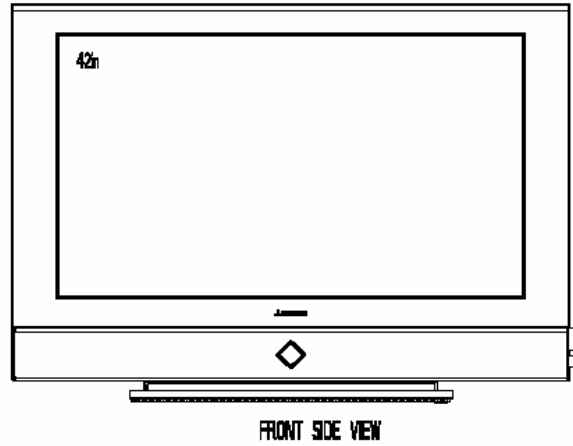
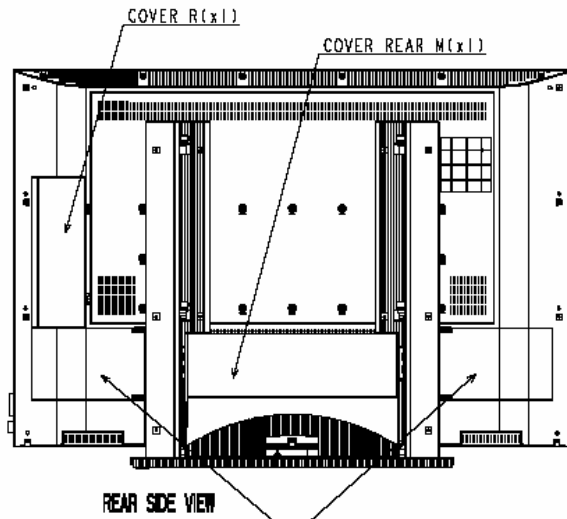
With the alternating current (AC) plug removed from the AC source, place a jumper across the two AC plug prongs. Connect one lead of an ohm meter to the AC plug and touch the other lead to each exposed metal part (i.e. antennas, handle bracket, metal cabinet, screw heads, metal overlay, control shafts, etc.), particularly any exposed metal part that has a return path to the chassis. The resistance of the exposed metal parts having a return path to the chassis **should be a minimum of 1Meg Ohm**. Any resistance below this value indicates an abnormal condition and requires corrective action.

2. Hot Check ...Use the circuit shown below to perform the hot check test.

1. Keep switch S1 open and connect the receiver to the measuring circuit. Immediately after connection, and with the switching devices of the receiver in their operating positions, measure the leakage current for both positions of switch S2.
2. Close switch S1, energizing the receiver. Immediately after closing switch S1, and with the switching devices of the receiver in their operating positions, measure the leakage current for both positions of switch S2. Repeat the current measurements of items 1 and 2 after the receiver has reached thermal stabilization. **The leakage current must not exceed 0.5 milliampere (mA).**



Cabinet Disassembly

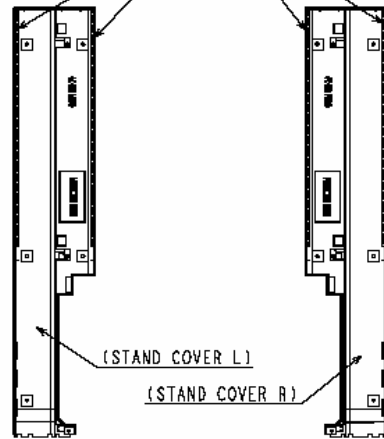
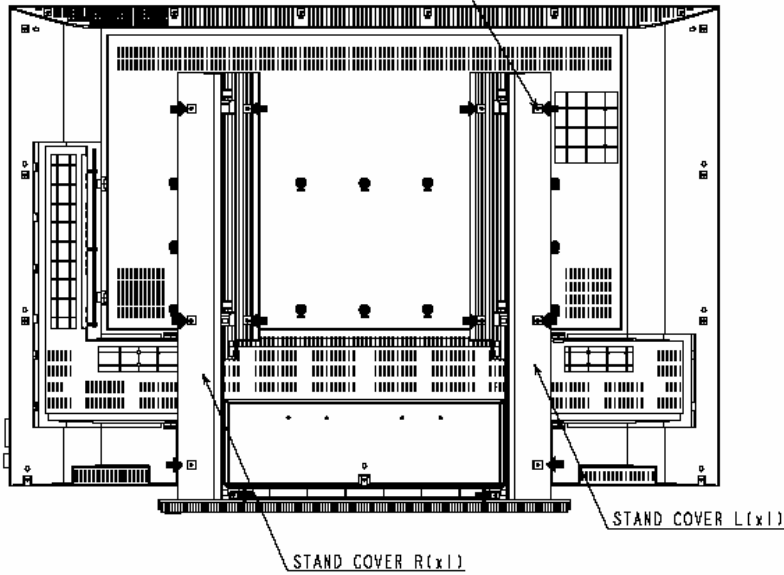


1. STAND COVER R/L

SCREW BTV4X8 NI (x12)

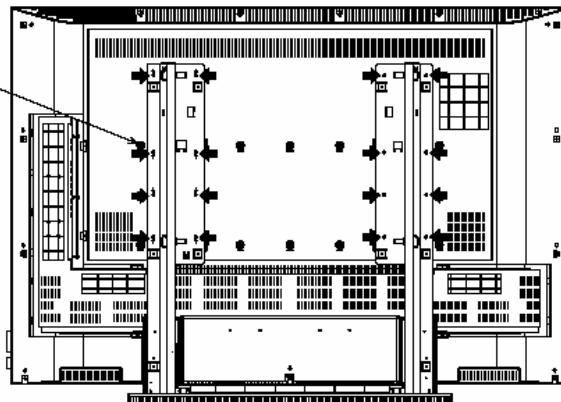


PAD N9795B LT426D 370x7xT0.9(x4)



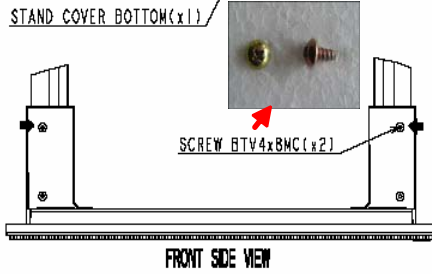
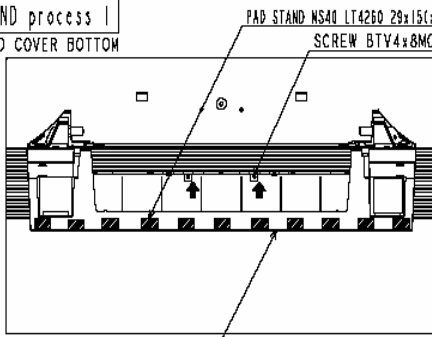
2. STAND

SCREW PM4X16/WH10&MC (x16)

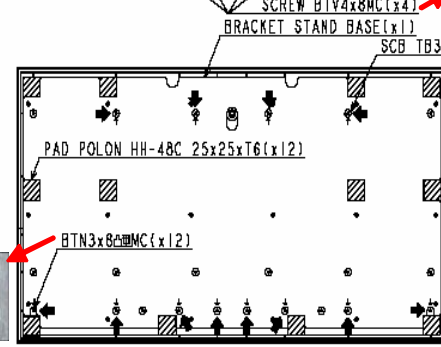
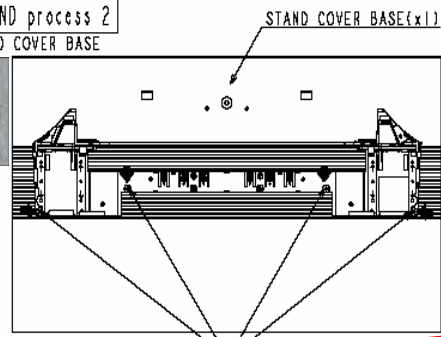


MODEL: L423FR

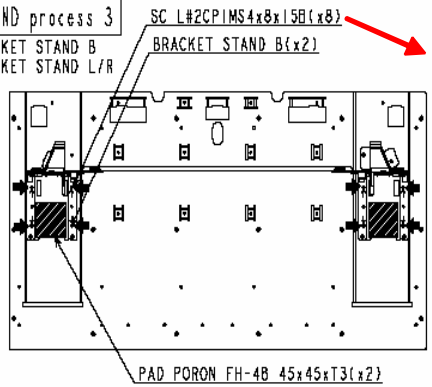
STAND process 1
STAND COVER BOTTOM



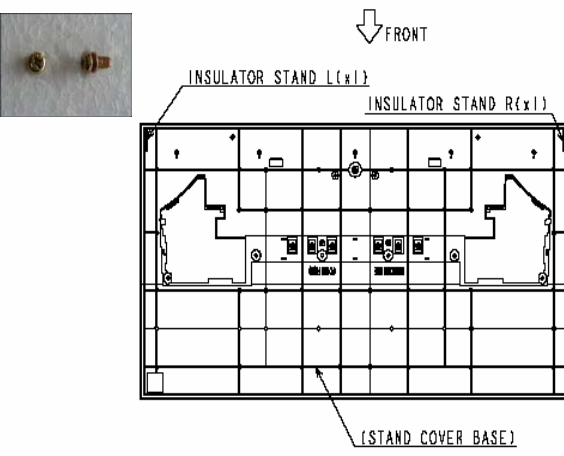
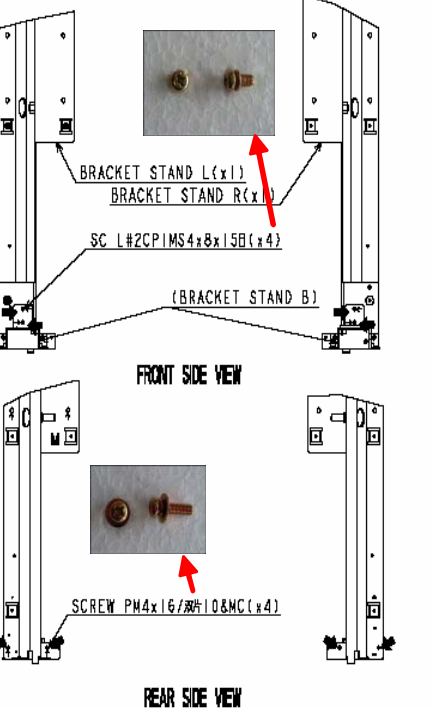
STAND process 2
STAND COVER BASE



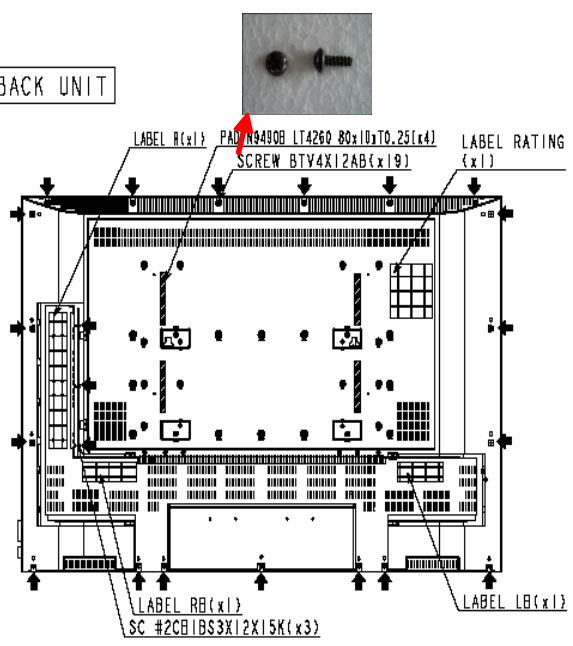
STAND process 3
BRACKET STAND B
BRACKET STAND L/R



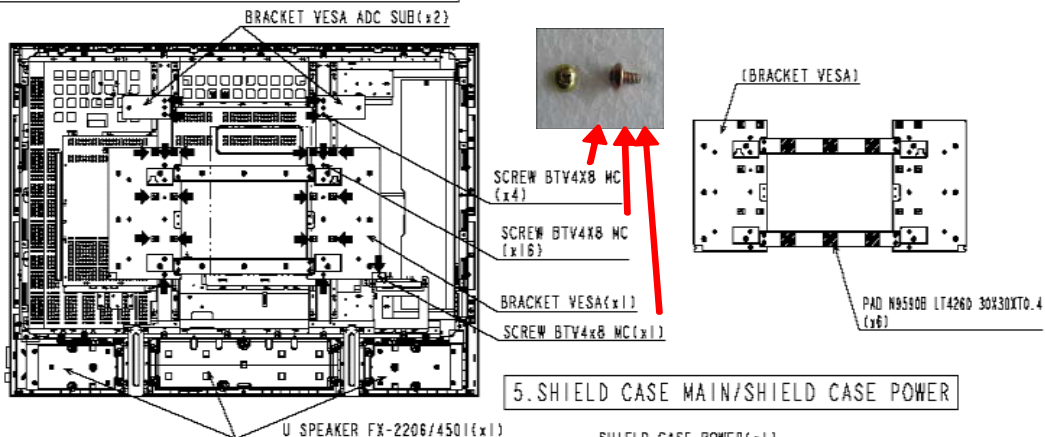
STAND process 4
BRACKET STAND L/R



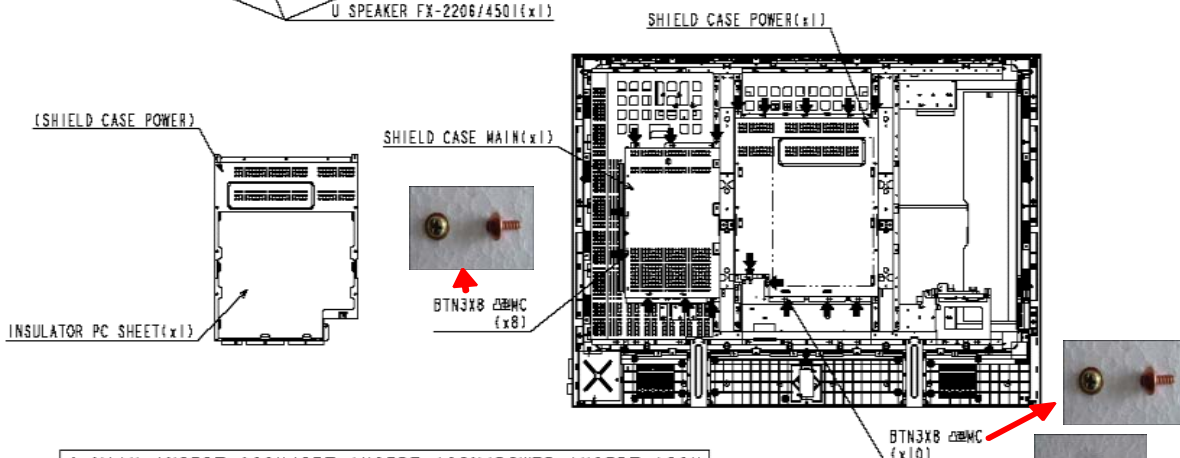
3.BACK UNIT



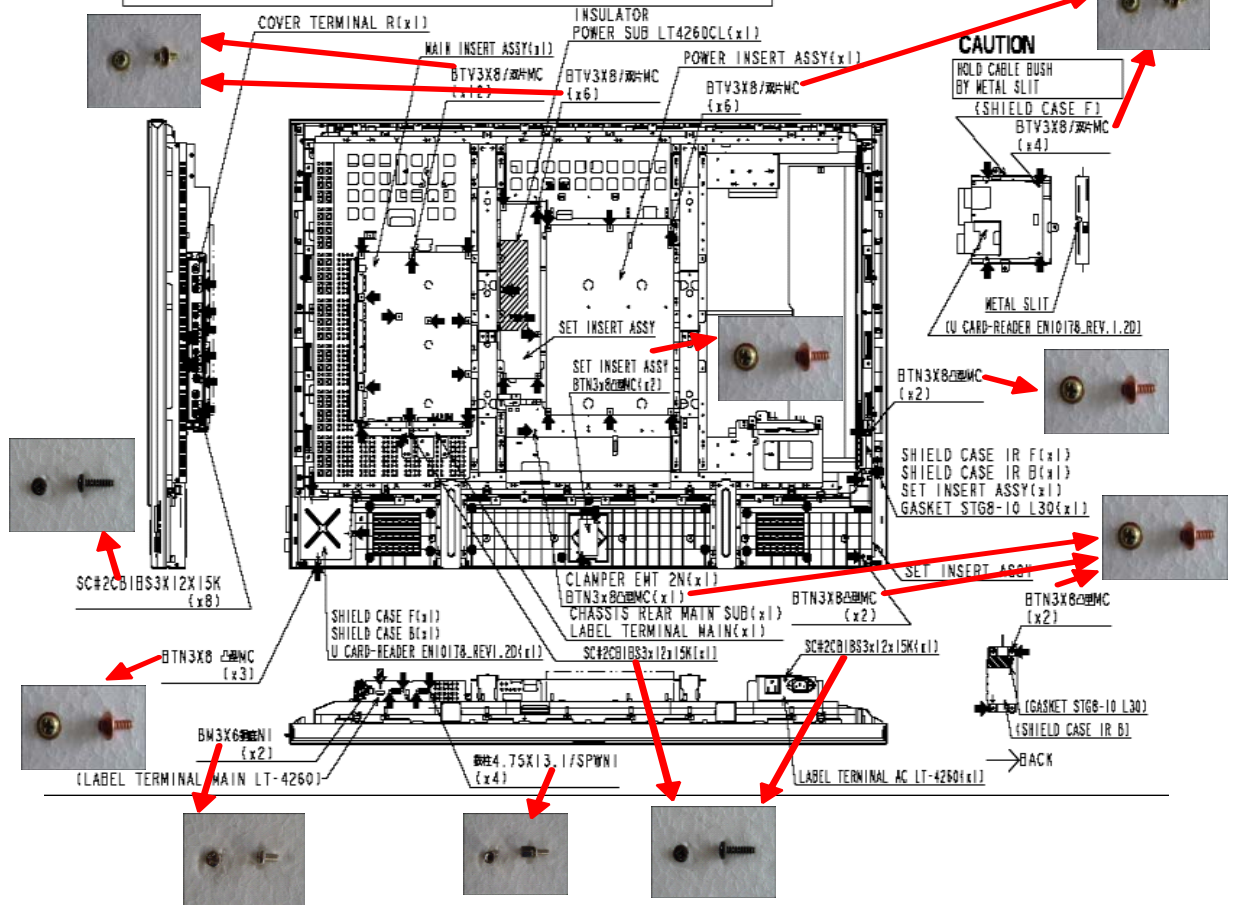
4. BRACKET VESA/BACKET VESA ADC SUB/SP

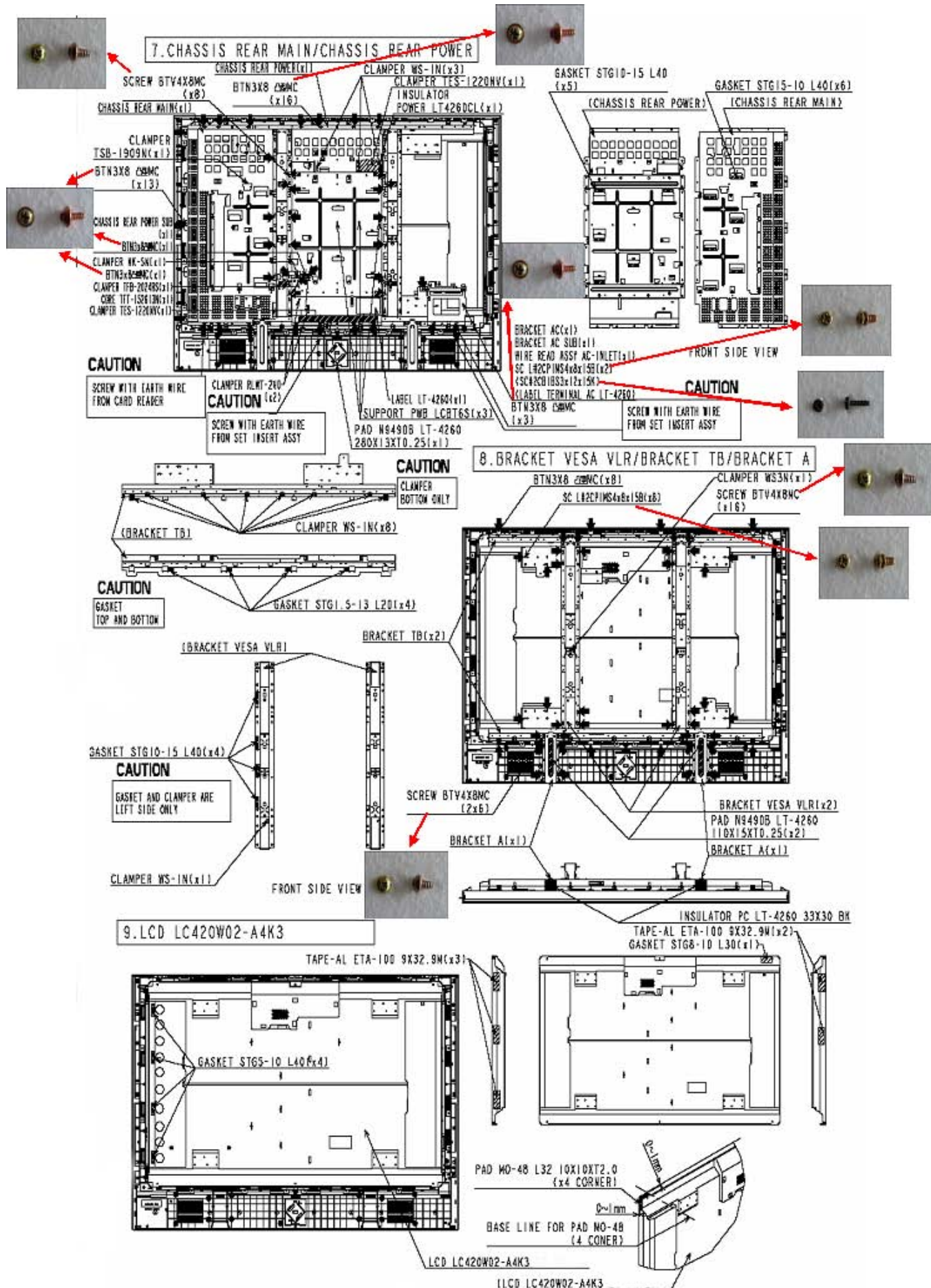


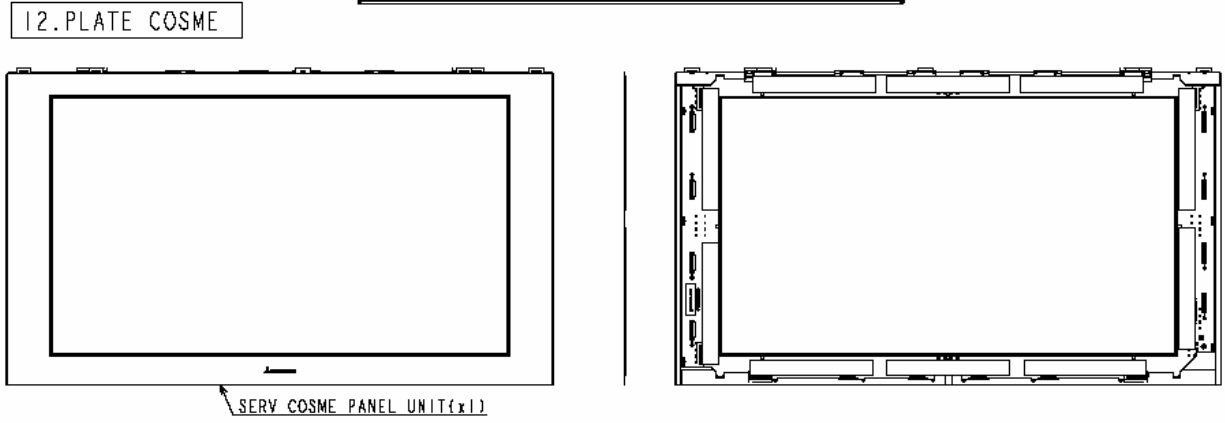
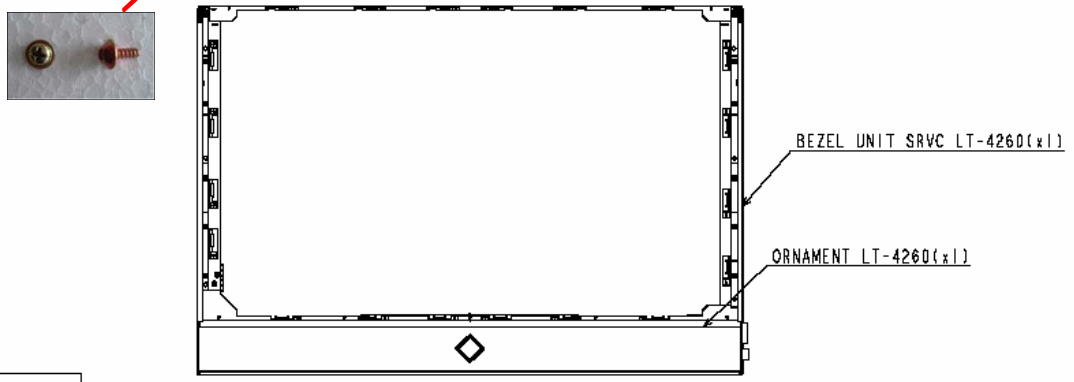
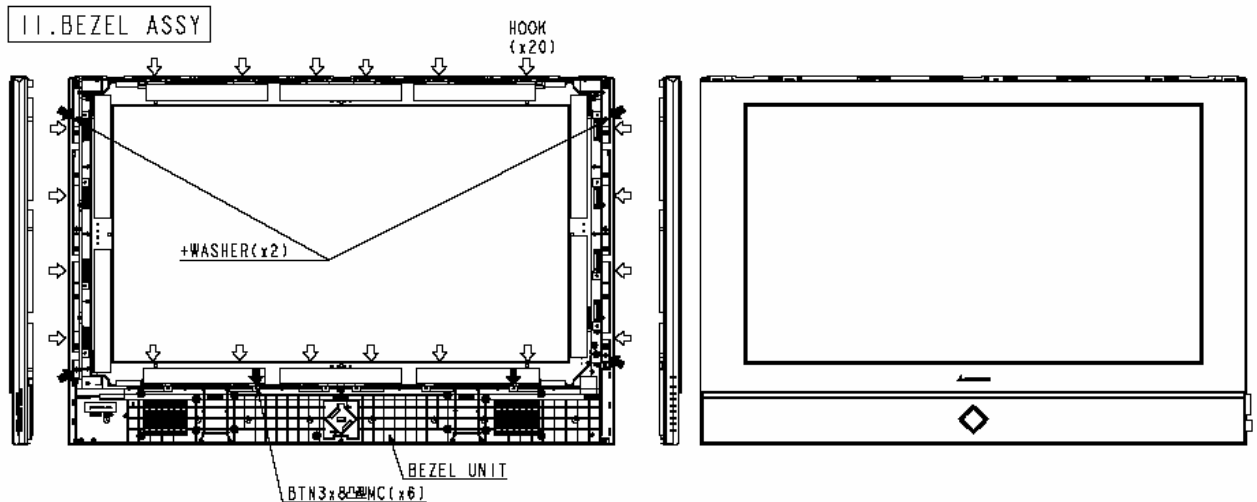
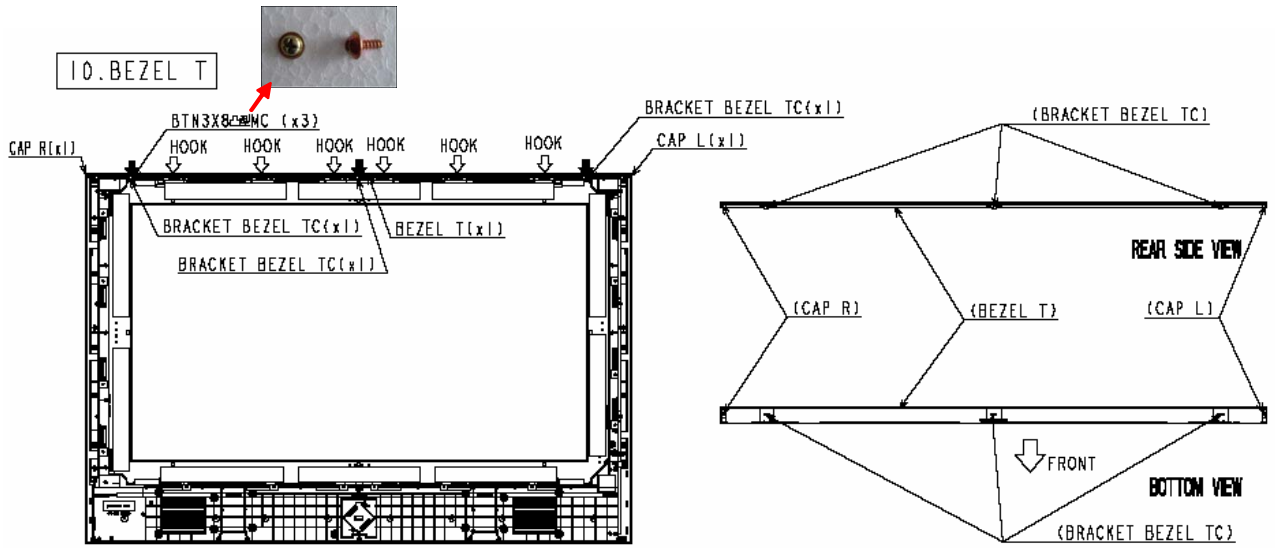
5. SHIELD CASE MAIN/SHIELD CASE POWER



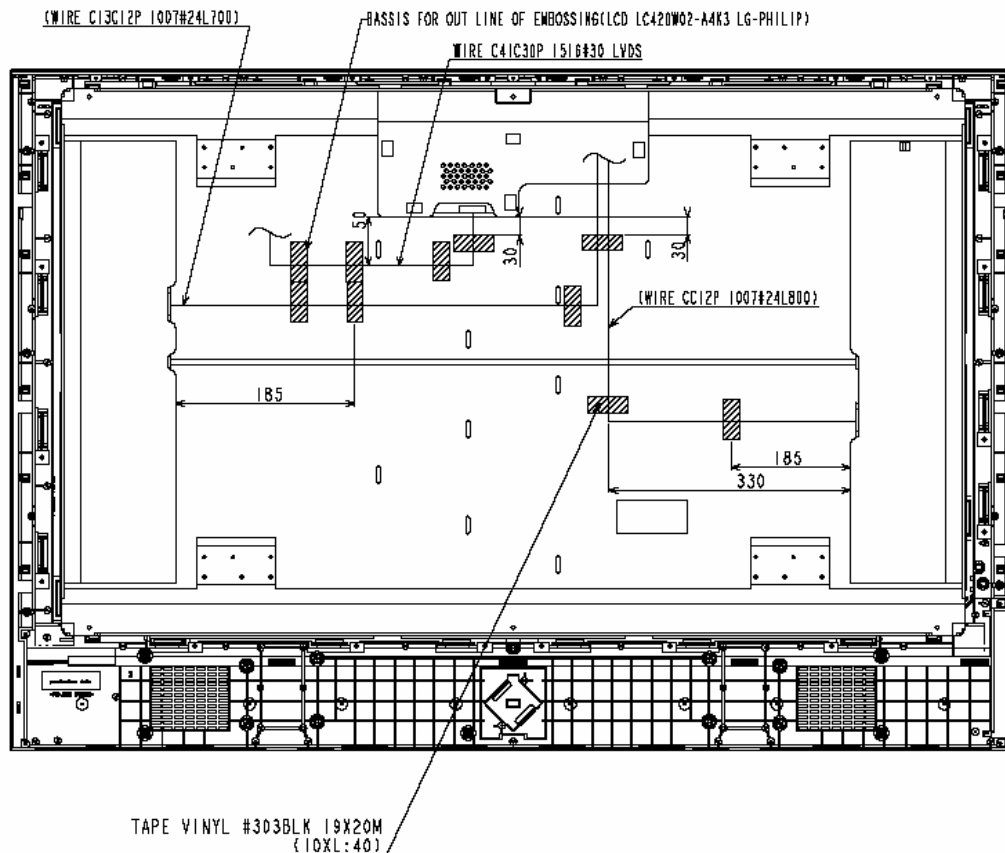
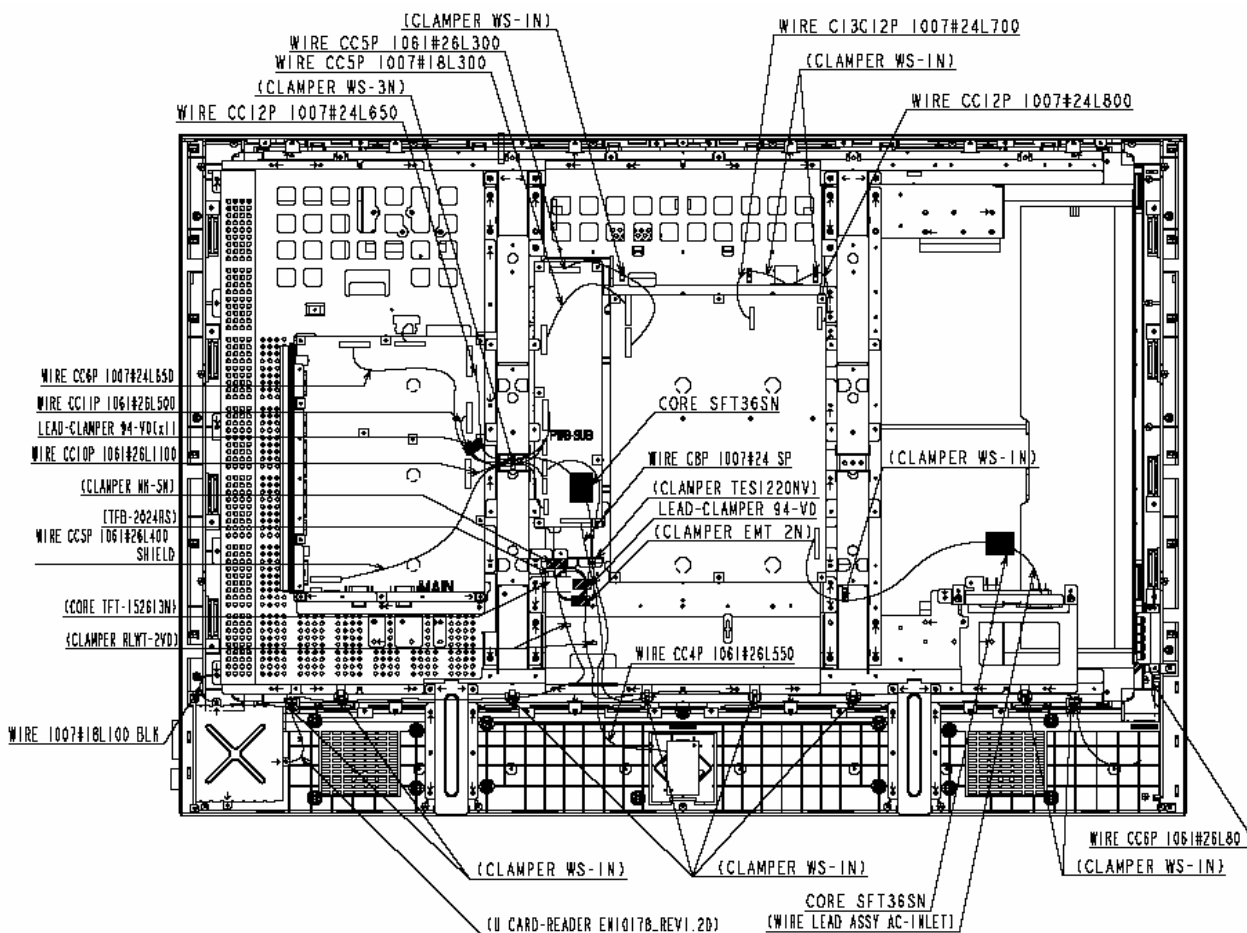
6. MAIN INSERT ASSY/SET INSERT ASSY/POWER INSERT ASSY







MODEL: L423FR



LCD Panel Replacement Procedure

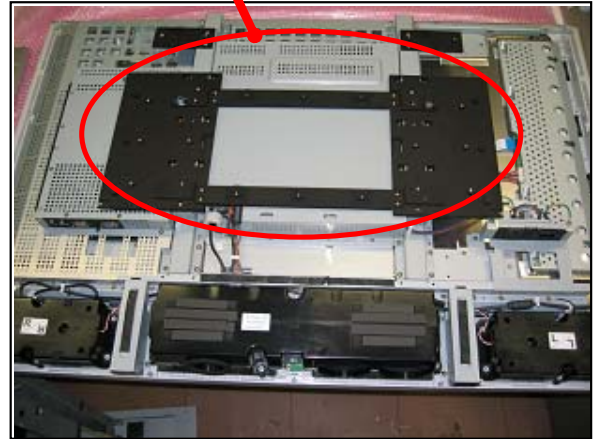
1

Remove back_cover



2

Remove Bracket_Vesa

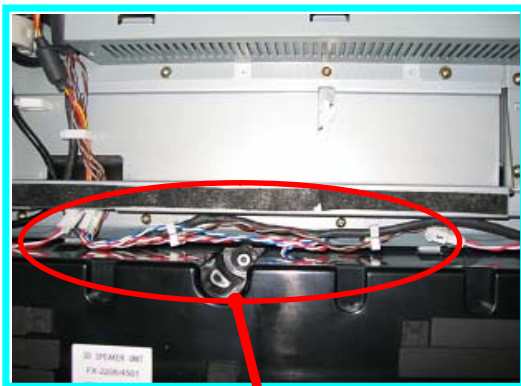


3

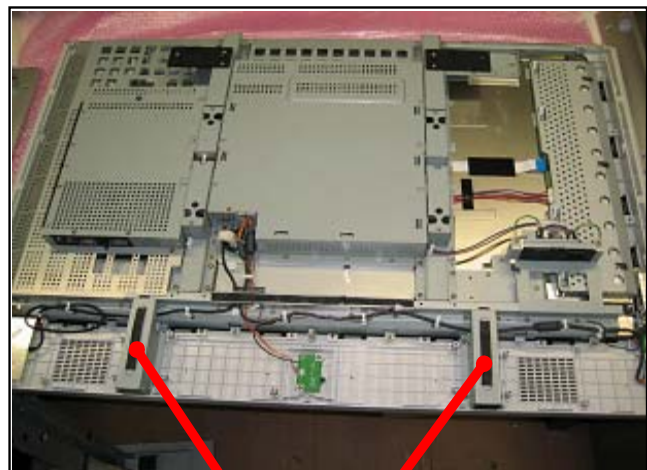


4

Remove MAIN-SP(L/R), & SUB-WOOFER



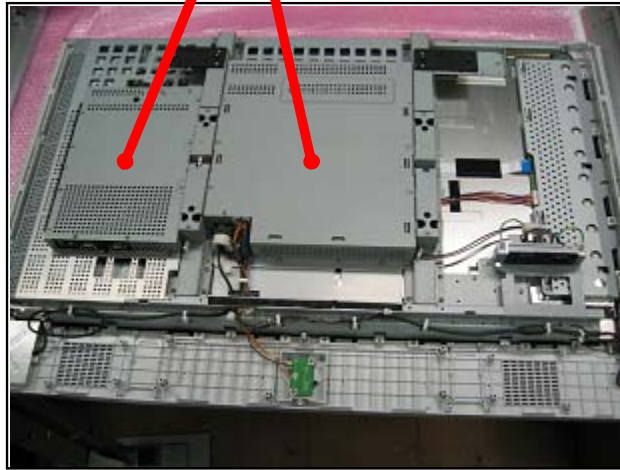
Remove Sp-connector



Remove BRACKET A

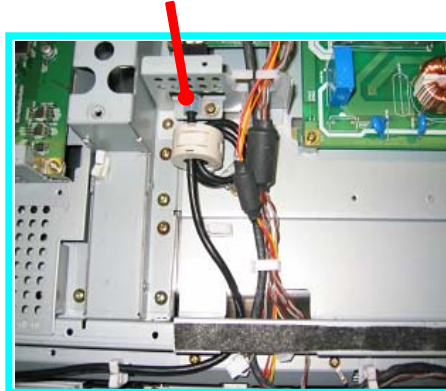
5

Remove SHIELD CASE POWER,MAIN



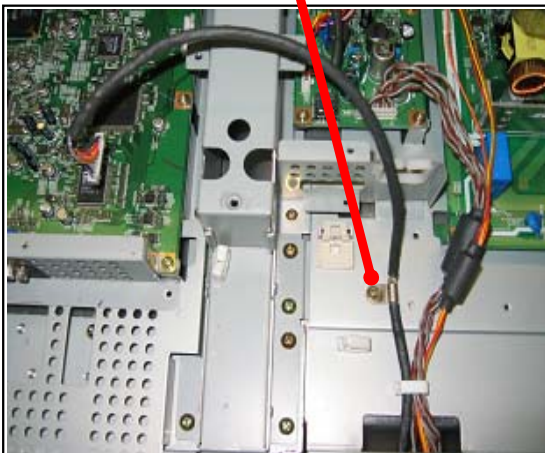
6

Remove connector of card_reader



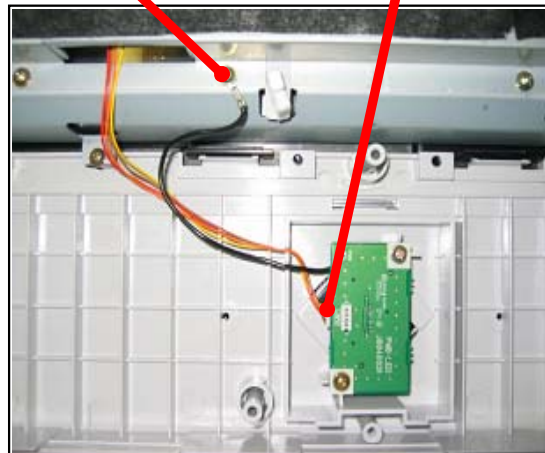
7

Remove screw



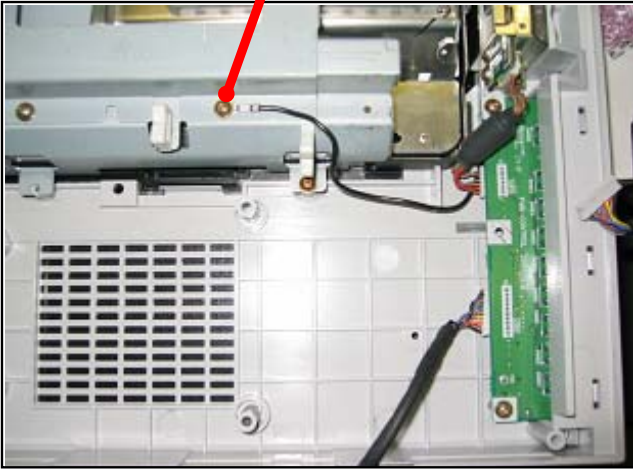
Remove screw

Remove PWB-LED coonector



8

Remove screw of earth-lead

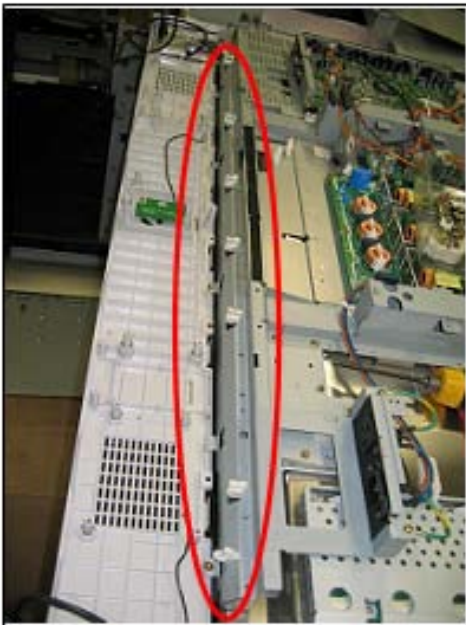


Remove screw of earth-lead of card reader



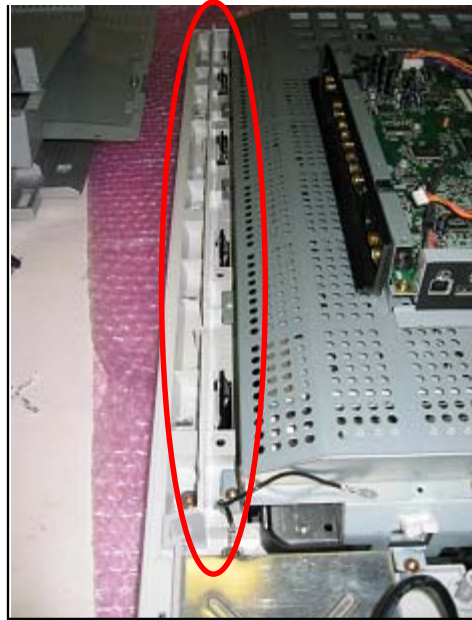
9

Remove BRACKET TB(BOTTOM)
4 screws



10

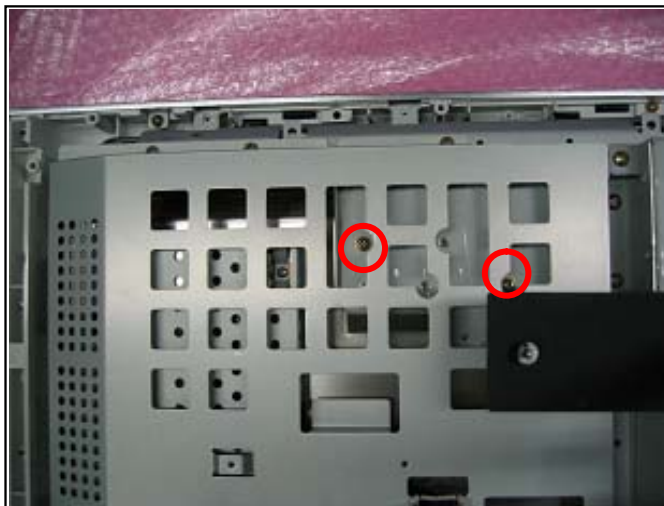
Remove CHASSIS REAR MAIN
3 screws



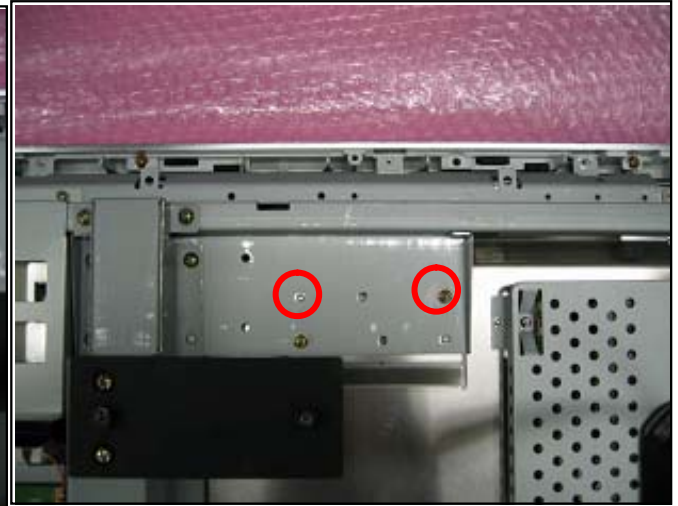
- 11 Remove BRACKET TB(TOP)
4 screws



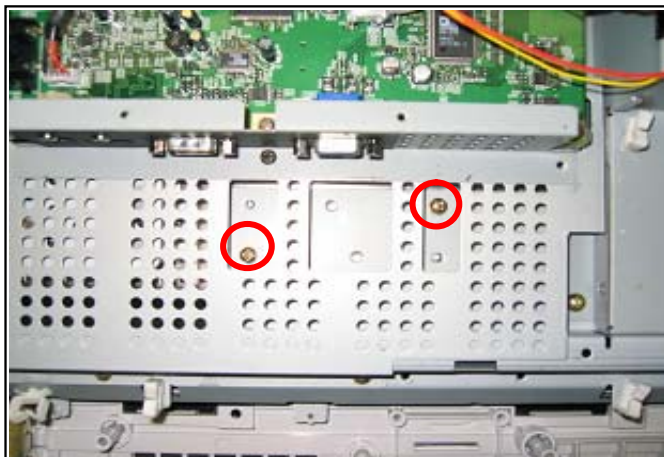
- 12 Remove screws of BRACKET_TB_PANEL
Top-left



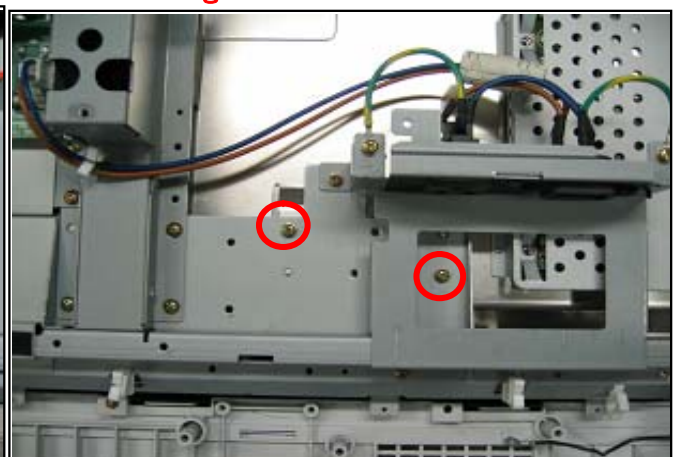
Top-right



Bottom-left

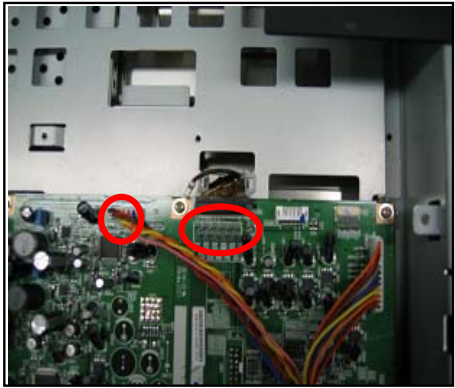


Bottom-right

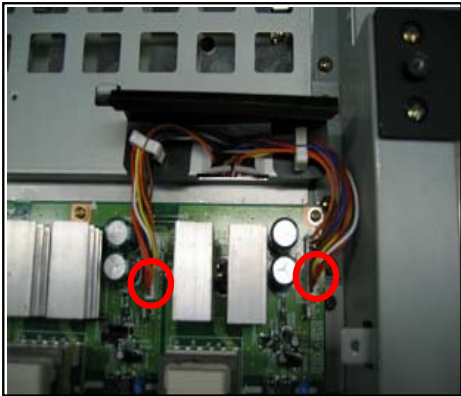


13

Remove connector of PWB-MAIN
LVDS & earth-lead

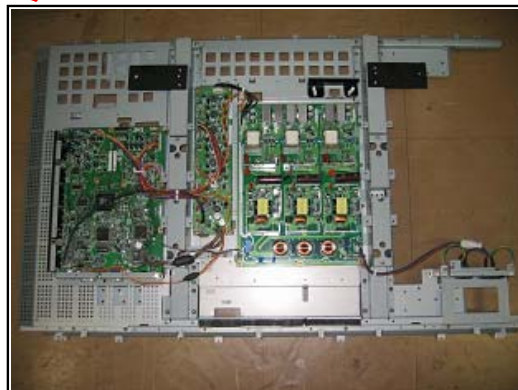


Remove connector of PWB-power

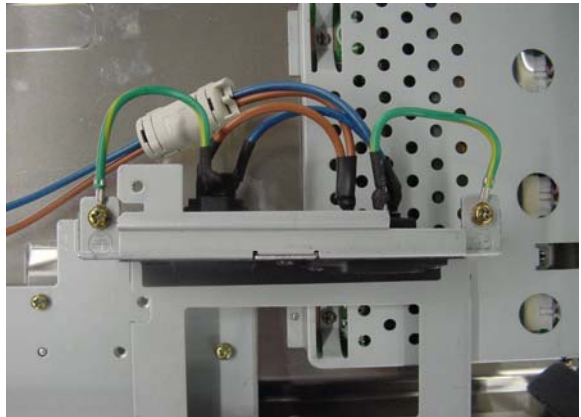
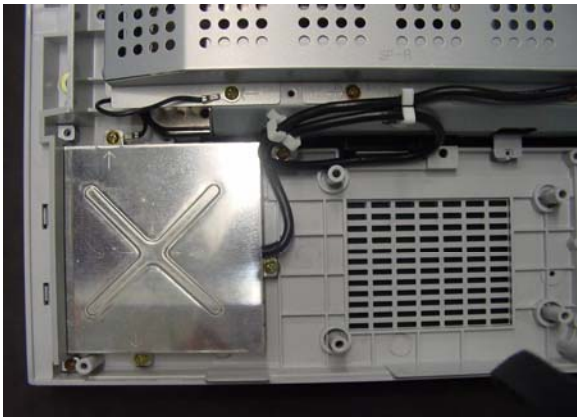
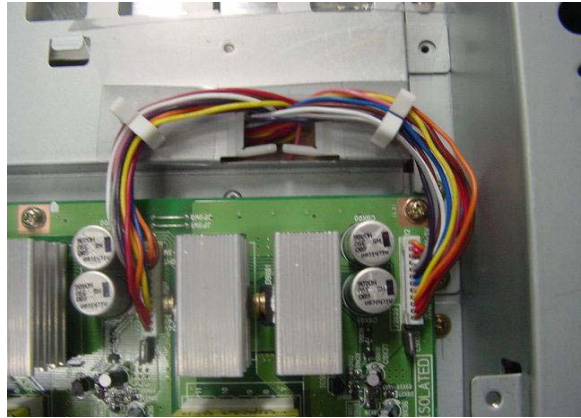
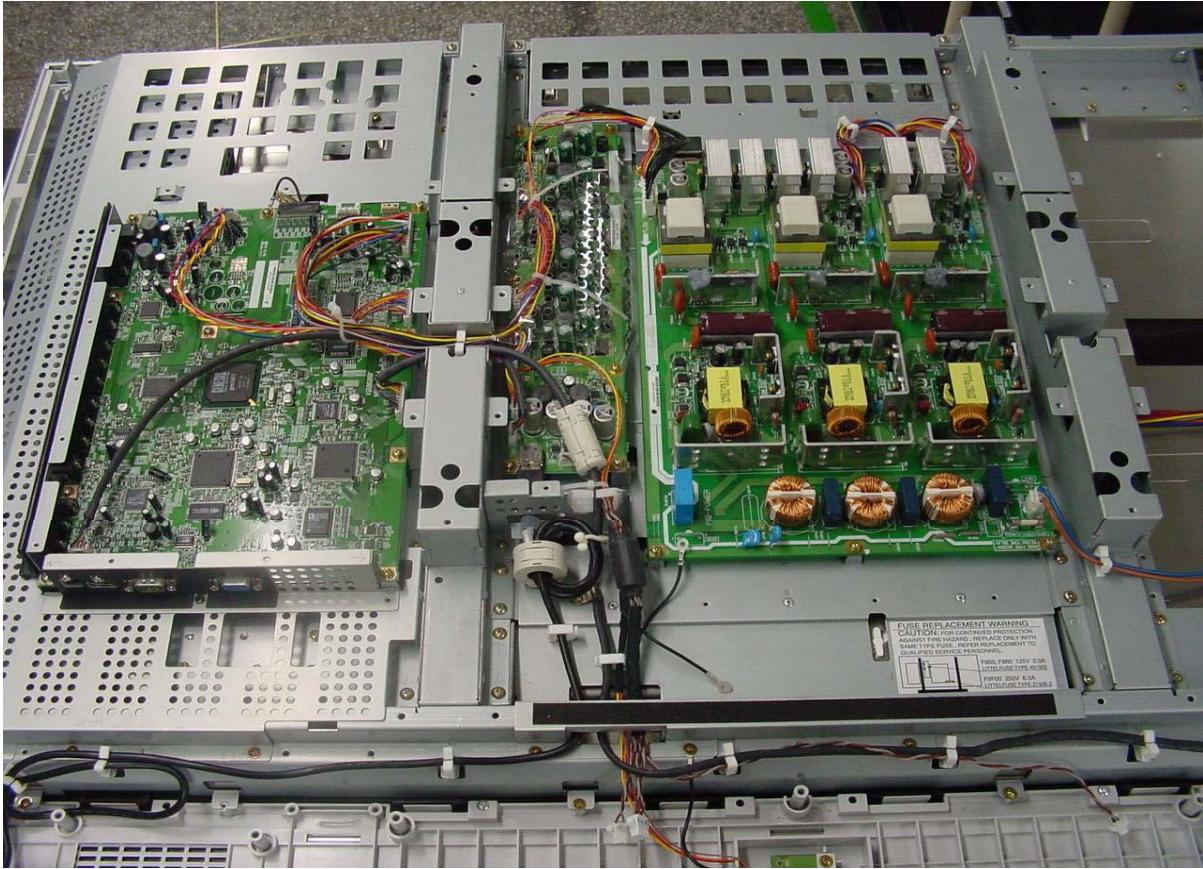


14

Remove LCD panel



Wire Dressing



Initial Setup

A. Option Menu Setup

Follow the steps below for the initial set-up:

1. Select the "MENU" display by pressing the "MENU" button once.
2. Press the number buttons "2", "0", "7", "0" in sequence to select the "OPTION MENU" display.
3. Press the "ADJUST▲▼" buttons to select "INITIALIZE."
4. Press "ENTER."

MENU-2-0-7-0

OPTION MENU	
Initialize	
Power Restore	:OFF
Component Port:	
Direct Key Mode:	

NOTE: At this time all Menu and Audio/Video user setting are set to the defaults shown in the chart below.

B. Default Settings

Items		Default Settings	
Volume		10	
INPUT		Component	
FORMAT(PC)		Full	
FORMAT(VIDEO)		Stretch	
Setup	INPUT ASSIGNMENT	Component	Component
		Input	Input
		PC	PC
		HDMI	HDMI
	Language		English
	Front Button Lock		Off
Audio/Video	Audio Setting	Bass	31
		Treble	31
		Balance	31
		Surround	Off
		Level Sound	Off
		Sub-Woofer	31
	Video Setting	Contrast	31
		Brightness	31
		Sharpness	31
		Color	31
		Tint	31
		Color Temp	High
		Video Noise	Standard
		Film Mode(Auto)	On
Back Light	63		
	Black Enhancement		On
	TV Speakers		On
ADVANCED FEATURES	Perfect Color	Magenta	31
		Red	31
		Yellow	31
		Green	31
		Cyan	31
		Blue	31
	PC Power Save		On
	Video Mute		On

Circuit explanation

1. Video circuits

It explains the video circuits of L423FR (Monitor for LT-4260).

It corresponds to various inputs (Component, VIDEO, PC, HDMI).

It explains the composition and its function of an video circuit.

(Refer to an attached "Video block diagram of LT-4260", regarding as the flow of video signal.) • @

1-1. Video input circuit of PC

In PC input, it is inputted into IC400 of the signal processing IC via Following IC

(A) IC203 : Analog-to-digital conversion IC (AD9888KS-170 : Analog devices)

The video signal (R, G, B) of PC input is changed into a digital signal (8 bits each) from an analog signal. Moreover, by this IC, it has the function below besides digital conversion.

- Contrast adjustment for PC
- brightness adjustment for PC

This IC is controlled by register control of IC203 via **3.3V IIC-bus** to MPU(IC300)

(B) IC201 : Invert IC with the Schmidt trigger (74LCX14 : Fairchild)

It is IC which inputs the horizontal sync signal and vertical sync signal of PC input.

Since there are what has a bad rising and falling characteristic and what has low amplitude in the sync signal outputted from PC, it is necessary to modify the waveform.

It corresponds to the above-mentioned waveform as follows by this IC.

- a bad rising and falling characteristic. : Rise-time and fall-time is carried out early.
- a waveform is noisy : It prevents that the mistaken pulse occurs by the Schmidt circuit.
- Low Amplitude : If voltage threshold is satisfied, high level will output in 3.3V.

Since 74LCX14 is a invert circuit, if its gate pass twice and it has united polarity.

(C) IC200 : 1K-bit EEPROM (24LC21TSN : Microchip)

This is the IC for EDID of PC.

This IC has important information about PC input such as product code, serial number, video specification, proposed timing, color information etc.

(D)IC202 : AND-circuit IC (SN74LVC08APW : Texas Instruments)

This IC is to disable the H, V sync signal line connected to IC which power supply is dropped while stand-by. It can operate correctly by using this.

This is controlled by ENABLE signal from MPU(IC300) (L : disable)

(E)IC204 : D Flop-Flop IC(74LCX74 : Fairchild)

The role of this IC is to synchronize H sync signal and V sync signal.

For output signal of IC203, H sync is synchronized by dot-clock from IC203, but V sync is not Synchronized by H sync. This IC uses to be operated without miss-operation.

(F)IC2A0 : Color conversion IC(M66471FP : Mitsubishi)

This IC uses to perform Color conversion function such as PerfectColor, Colorview.

(G)IC2A1 : TMDS-Transmitter IC(SII160CTG100 : SiliconImage)

This IC uses to convert signal's specification from TTL to TMDS (differential signal).

Since the input port of latter IC (IC400: Signal processor) could use only the TMDS input, this input specification was united by this IC.

1-2. Video input circuit of COMPONENT

In COMPONENT input, it is inputted into IC400 of the signal processing IC via Following IC.

(H)IC5A0 : Analog-switch IC with LPF (SM5301A : NPC)

In this IC, it uses only LowPassFilter function for component signal, although it has analog-switch function.

1-3. Video input circuit of HDMI

In HDMI input, it is inputted into IC400 of the signal processing IC via Following IC.

(I)IC500 : HDMI-Receiver IC ((SII9993CTG100 : SiliconImage)

It adopts a input of the interface standard called HDMI in this model. This can send both digital image (video) and digital audio by the differential signal from one input, and this is already beginning to be used for the output of DVD-PLAYER. It is convenient and high-quality methods because all of signal process is digital. This pattern design and specification is severe in order to deal with the signal of hundreds MHz, and it has to pass compliance testing of HDMI to receive confirmation of this HDMI. This IC uses to receive and correspond the differential signal. This IC corresponds not only HDMI input but also DVI input(TMDS interface) . Supported timing of this input is 480P/1080i/720P.

The output format of this IC is YCbCr4:4:4, not RGB.

(J) IC501 : 2K-bit EEPROM (24LC22AT : Microchip)

This is the IC for E-EDID of HDMI.

This IC has important information about HDMI input such as audio, speaker, code for HDMI Identification, in addition to product code, serial number, video specification, proposed timing, color information.

1-4. Video input circuit of INPUT(Composite)

In INPUT input, it is inputted into IC400 of the signal processing IC via Following IC.

(K)IC5T1 : Buffer IC with LPF (MM1566AF : Mitsumi)

This IC uses to mitigate the high frequency noise ingredient of the video signal outputted from Composite-VIDEO(J601) and S-VIDEO(J605)

(L)IC5G0 : Digital decoder IC with 3D Y/C separation (uPC64011 : NEC)

It is IC which changes the analog video signal (S-VIDEO/Composite Video) from IC5T1 into a digital signal.

By this IC, it has the function below besides digital conversion.

- 3 dimension Y/C separation for Composite Video
- Contrast adjustment.
- Brightness adjustment.
- FIELD signal generation.
- PLL (Phase-Locked Loop) : referential clock generation.
- Sync signal generation

This IC is controlled by register control of IC 5G0 via **3.3V IIC-bus**.

1-5. Signal processor circuit

(M)IC400 : Signal processor IC (gm1601 : Genesis)

By this IC, it has the function below.

- Scaling for all inputs.
- PIP/POP/PAP control for all inputs
- Auto setup for PC
- Frequency measurement / distinction for all inputs
- Color space conversion (YPbPr → RGB)
- Motion Adaptive De-Interlacer.(480i/1080i)
- Color / tint control the input signal except PC input.
- 3 dimension Noise reduction.
- Adaptive Film Mode (24Hz → 30Hz)
- Gamma correction
- Contrast and brightness adjustment for COMPONENT
- OSD mixing

This IC is controlled by register control of IC 400 via 5-lines serial communication.

The output format of this IC is LVDS data stream (differential signals).

In 28 bits, 24-bits digital video signal and horizontal sync signal, vertical sync signal, and an enable signal and a clock signal for LCD panel are pointed out.

A phase-locked transmit clock is transmitted in parallel with the data streams over a fifth LVDS link. And this output is sent to LCD panel through J402.

(N)IC405 : 4M bit Flash Memory(PM39LV040-70JCE : PMC)

This IC is installed the firmware of IC400(gm1601), helps that IC400(gm1601) serves as another MPU. (This model operates by 2 MPU)

(O)IC403 : 128M-bit DDR SDRAM(HY5DU283222AQ-5 : HYNIX)

This IC is used as external frame buffer of IC400(gm1601), provides the storage required for the frame rate conversion process and integrated OSD.

2. Audio circuits

It explains the audio circuits and speaker system of L423FR.

Our design spec is as follows.

- High Power outputs : Total 20W(5W*2(L,R) + 10W(woofer))
- 2.1ch Sub woofer speaker system
- Impedance : 6+/-0.9 ohms
- Compact and high performance sound enclosure box (3 pieces).
- Care for minimizing the vibration noise

(Refer to an attached "Audio block diagram of LT-4260", regarding as the flow of video signal.)

2-1. Audio select circuits

(P)IC601 : Analog-switch IC (CXA2089 : SONY)

In this IC, the audio from COMPONENT(J602), PC(J604), INPUT(J601), DVI(J603), HDMI(outputs for IC602) is selected by register control of IC601 via **5V IIC-bus**.

2-2. Audio process circuits

(Q)IC610 : Audio processor IC (MSP3440G : Micronus)

This models are used the MSP3440G as the audio processor.

This IC's functions are as follows.

- Volume control
- Tone control
- Surround
- L/R mixing
- Sub-woofer output
- Audio line output

This model has some sound effect features on user menu, Bass, Treble, Balance, Surround, Level Sound, Sub Woofer.

Audio adjustment of those in this model is performed by this IC.

2-3 Audio amplifiers circuits

(R)IC670, IC680, IC6A0, IC6C0 : Single Ended Audio Amplifier IC (MP7720DS : MPS)

This model apply digital Audio Amplifier in order to decrease power consumption.

2 piece is for main sounds, and 2 more piece is for sub-woofer, total 4pcs.

This amplifier voltage is 14V (both AMPVCC(for main) and SAMPVCC(for Sub Woofer)).

2-4. Headphone (J610)

Although the audio signals outputted from amplifier is sent to SPEAKER, between amplifier and SPEAKER is a headphone terminal. If a headphone is connected, the audio signal to SPEAKER will be intercepted and a audio signal will be sent to a headphone terminal.

2-5. Speakers

This model has 2.1ch sub woofer speaker system.

The specification of L/R speaker is following table.

No.	ITEM	SPECIFICATION
1	Nominal Impedance	6 ohms +/- 15%
2	Lowest Resonance	160 +/- 32Hz
3	Effective / Rated Frequency Range	F0~20KHz OUT PUT SPL-10dB
4	Rated Input	8W
5	Maximum Input	10W

The specification of woofer speaker is following table.

No.	ITEM	SPECIFICATION
1	Nominal Impedance	6 ohms +/- 15%
2	Lowest Resonance	70 +/- 14Hz
3	Effective / Rated Frequency Range	F0~18KHz OUT PUT SPL-10dB
4	Rated Input	12W
5	Maximum Input	15W

3. Power circuit

For power supply of L423FR, there are the power supply of “always on” and “ON/OFF” with a control signal.

Power source signal	Voltage [V]	“always on” or “ON/OFF”	Control signal	Output IC	Note
24V	24	ON/OFF	Psave1		For inverter
24V	24	always on	-		For MAIN/B, SUB/B
A12V	12	ON/OFF	Psave2	IC860	
A9V	9	ON/OFF	Psave2	IC820	
S8V	8	always on	-	IC850	
S5V	5	always on	-	IC890	
A5V	5	ON/OFF	Psave2	IC8X0	
AMPVC C	14	ON/OFF	Psave3	IC880	
SAMPVC C	14	ON/OFF	Psave3	IC870	
4.5V	4.5	ON/OFF	Psave2	IC840	
A3.3V	3.3	ON/OFF	Psave2	IC8A0	
D3.3V	3.3	ON/OFF	Psave2	IC8E0	
AD3.3V	3.3	ON/OFF	Psave2	IC8F0	
D2.5V	2.5	ON/OFF	Psave2.5	IC8H0	
A1.8V	1.8	ON/OFF	Psave2.5	IC8J0	
S3.3V	3.3	always on	-	IC830	
D1.8V	1.8	ON/OFF	Psave2.5	IC8K	
A1.5V	1.5	ON/OFF	Psave2	IC8L0	
D1.5V	1.5	ON/OFF	Psave2	IC8L0	

(P)IC9X10, IC9W10, IC9A10 : Power supply control IC(power factor correction) (FA5501 : FUJI)

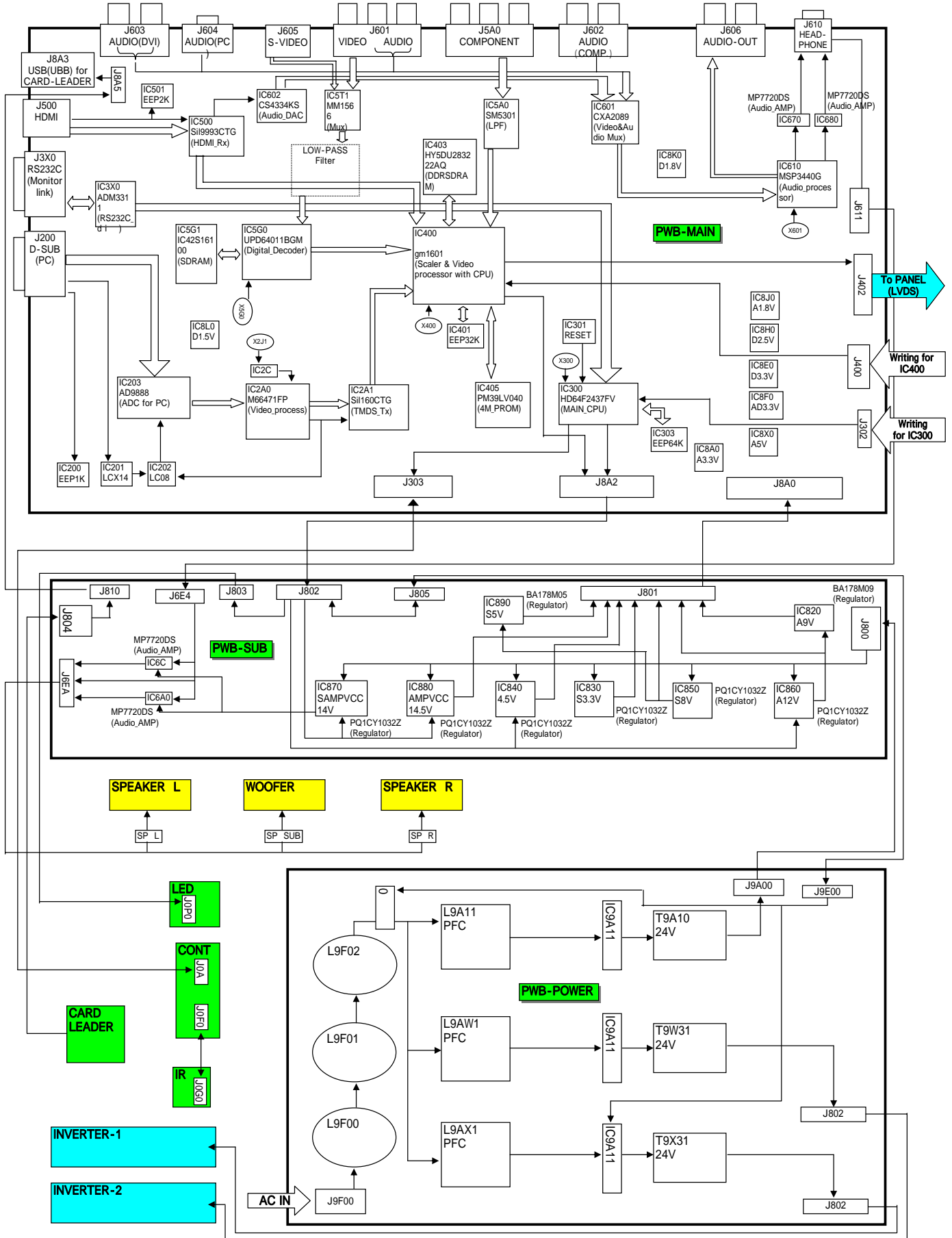
This IC are control IC for a power factor correction converter using critical conduction mode of operation. This IC performs a power factor correction by conversion the current waveform from triangle waveform to sine waveform.

(P)IC9X11, IC9W11, IC9A11 : Power supply voltage control IC (F9222 : FUJI)

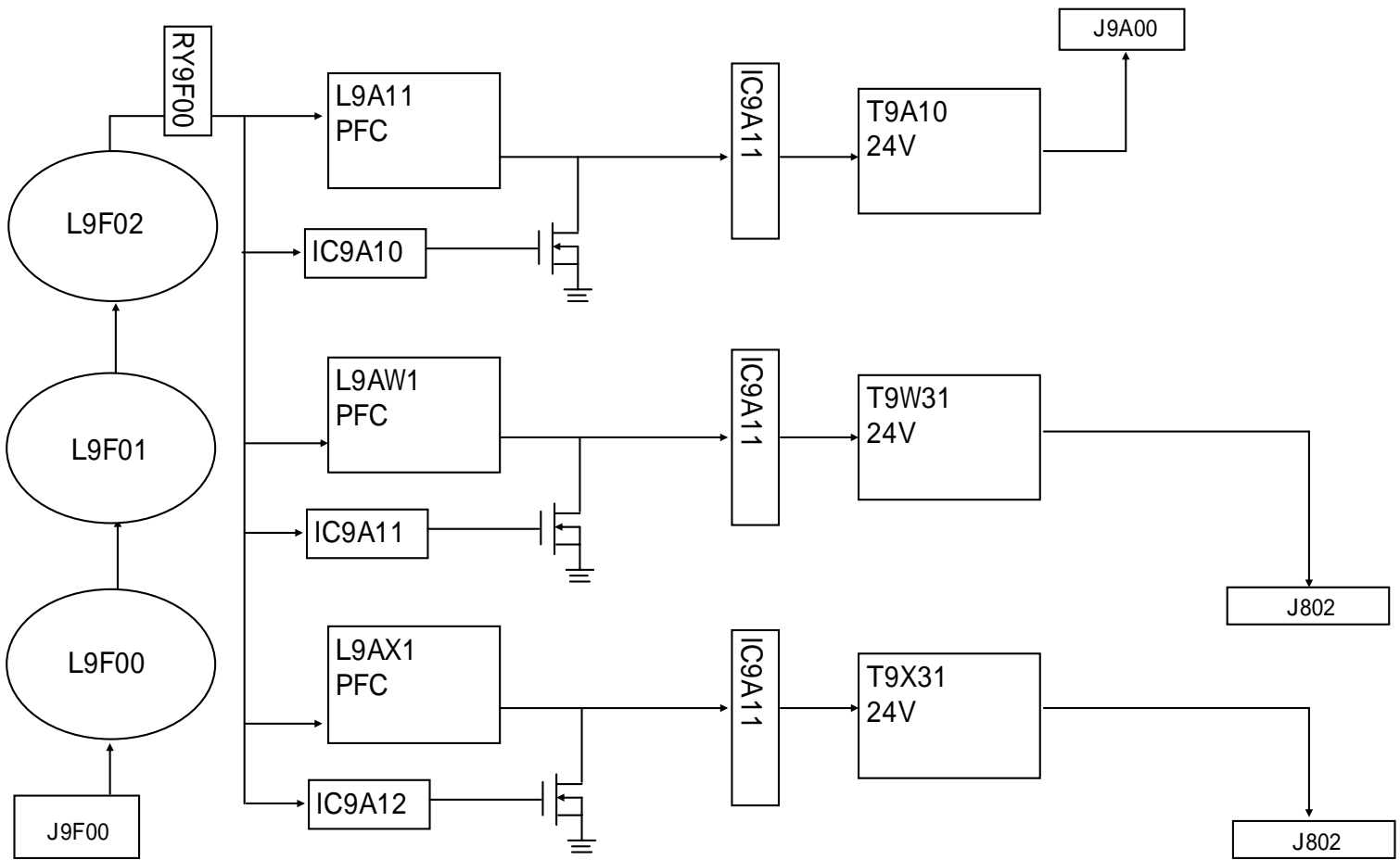
This IC controls the power supply voltage by switching about 100KHz. This IC has MOSFET inside IC, keep switching on and off, and controls its duty to be stable output voltage.

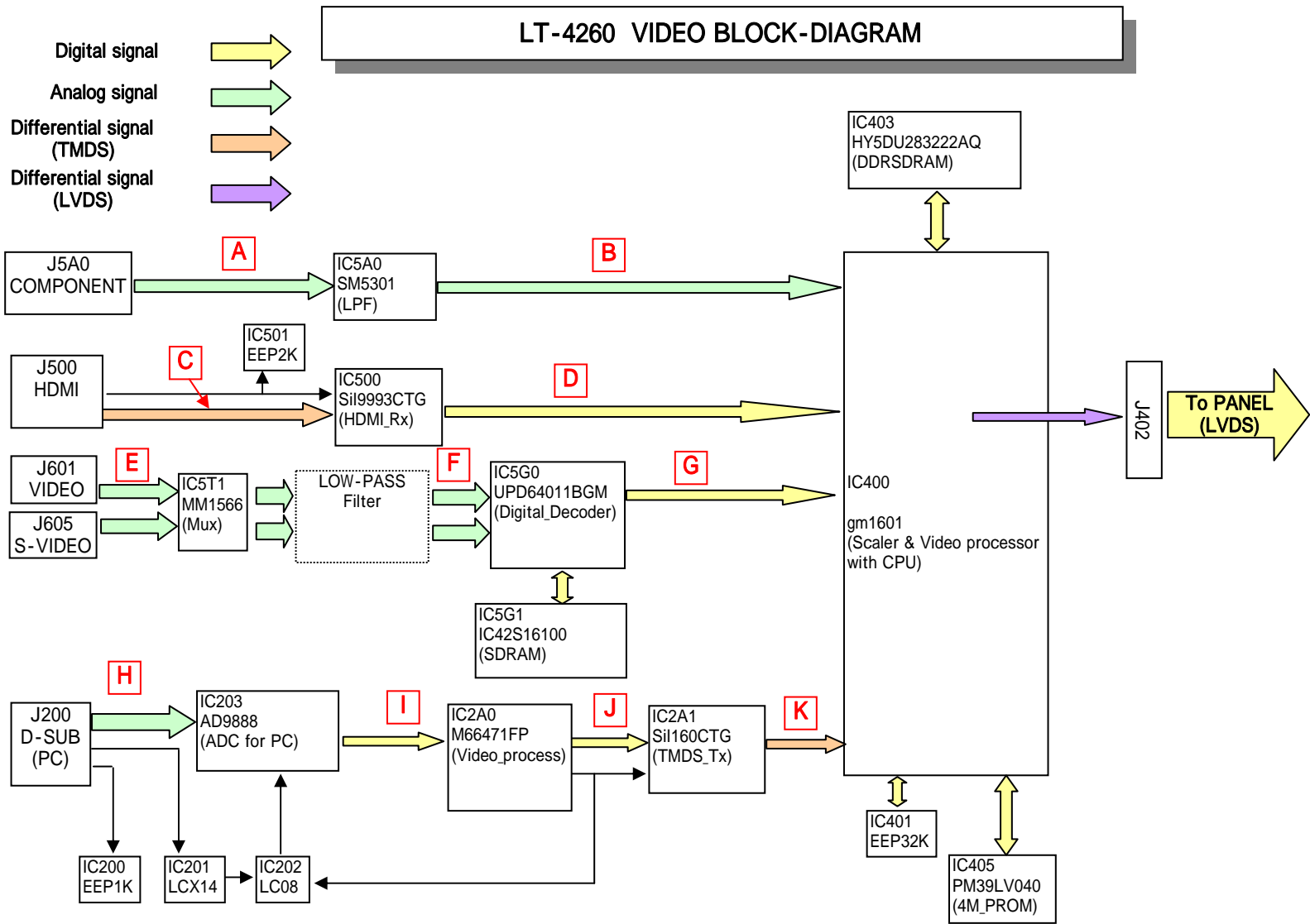
MODEL: L423FR

LT-4260 BLOCK-DIAGRAM

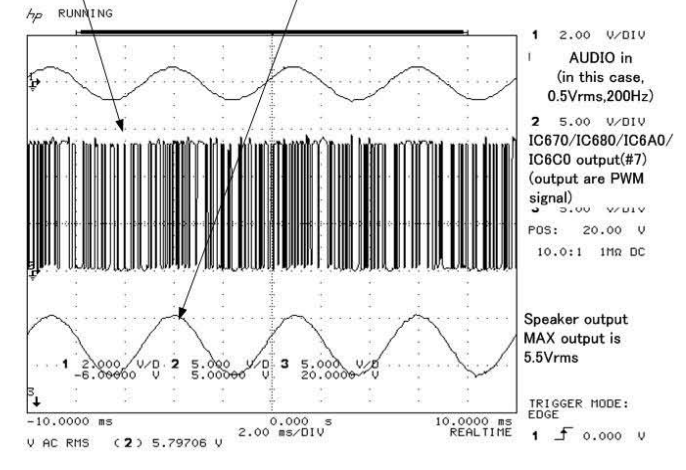
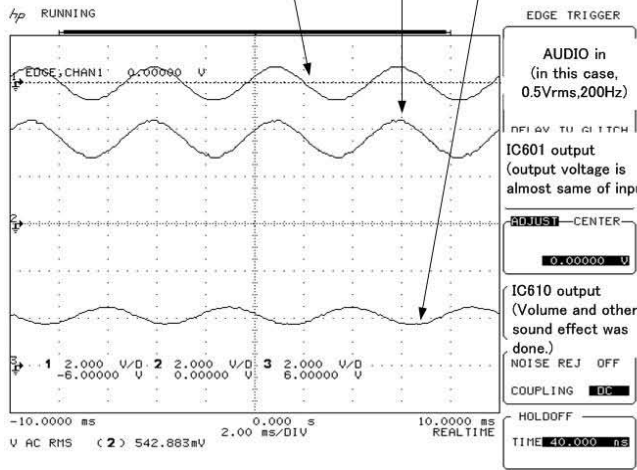
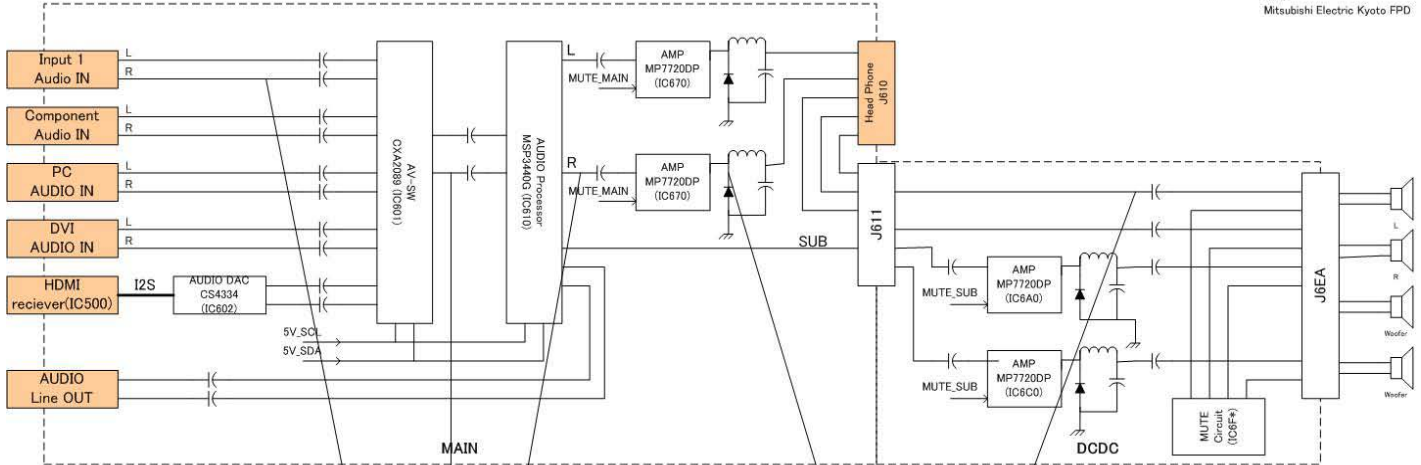


<POWER BLOCK> PCB-POWER only



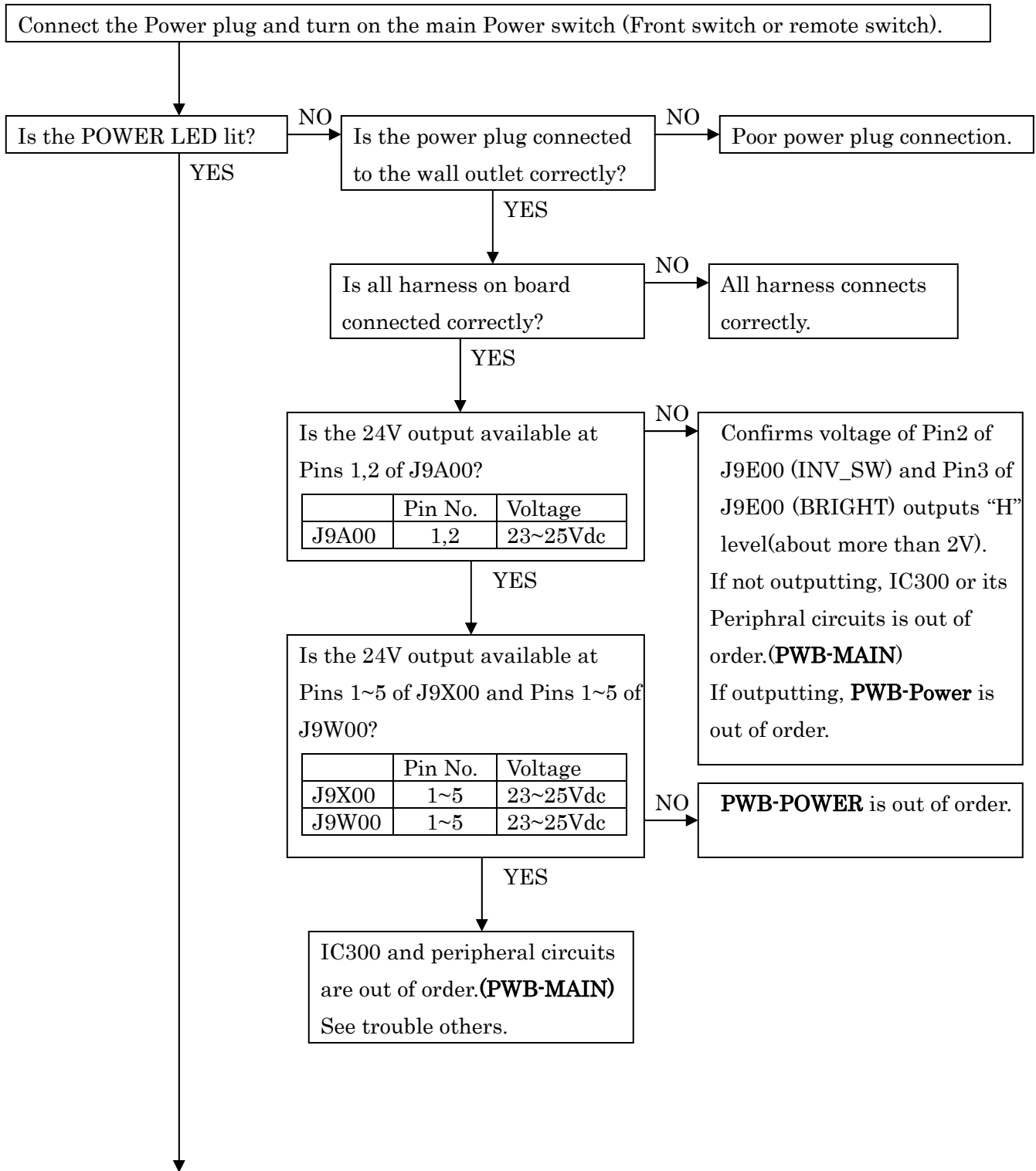


AUDIO Circuit block Diagram for LT-4260



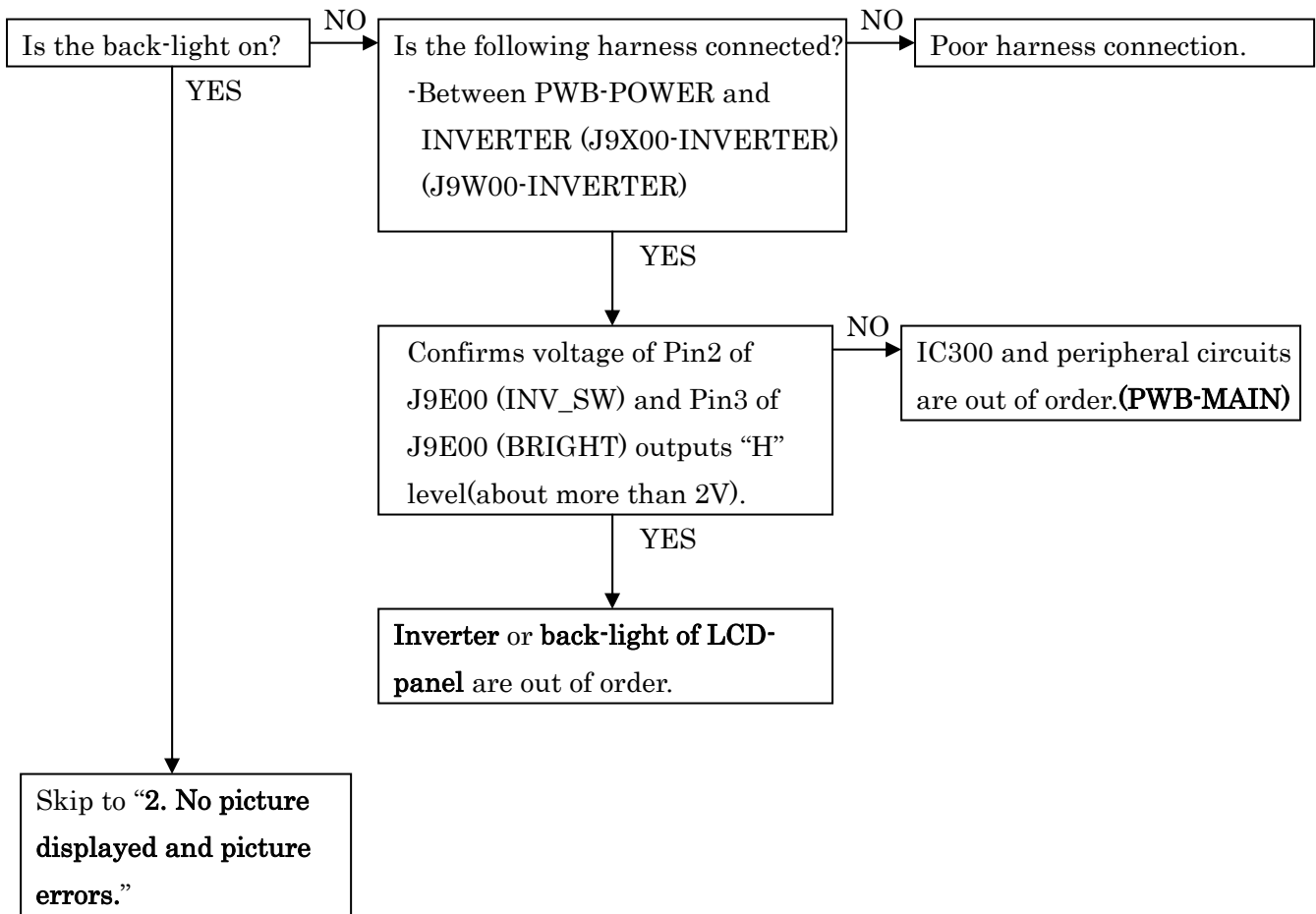
1. Power failure

(1)POWER is turned off.



(2) at next page

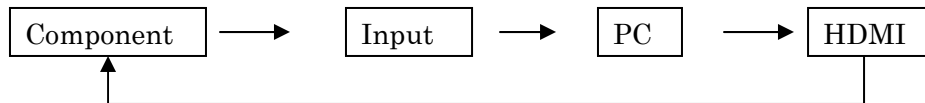
(2)in case of POWER-LED is lighting



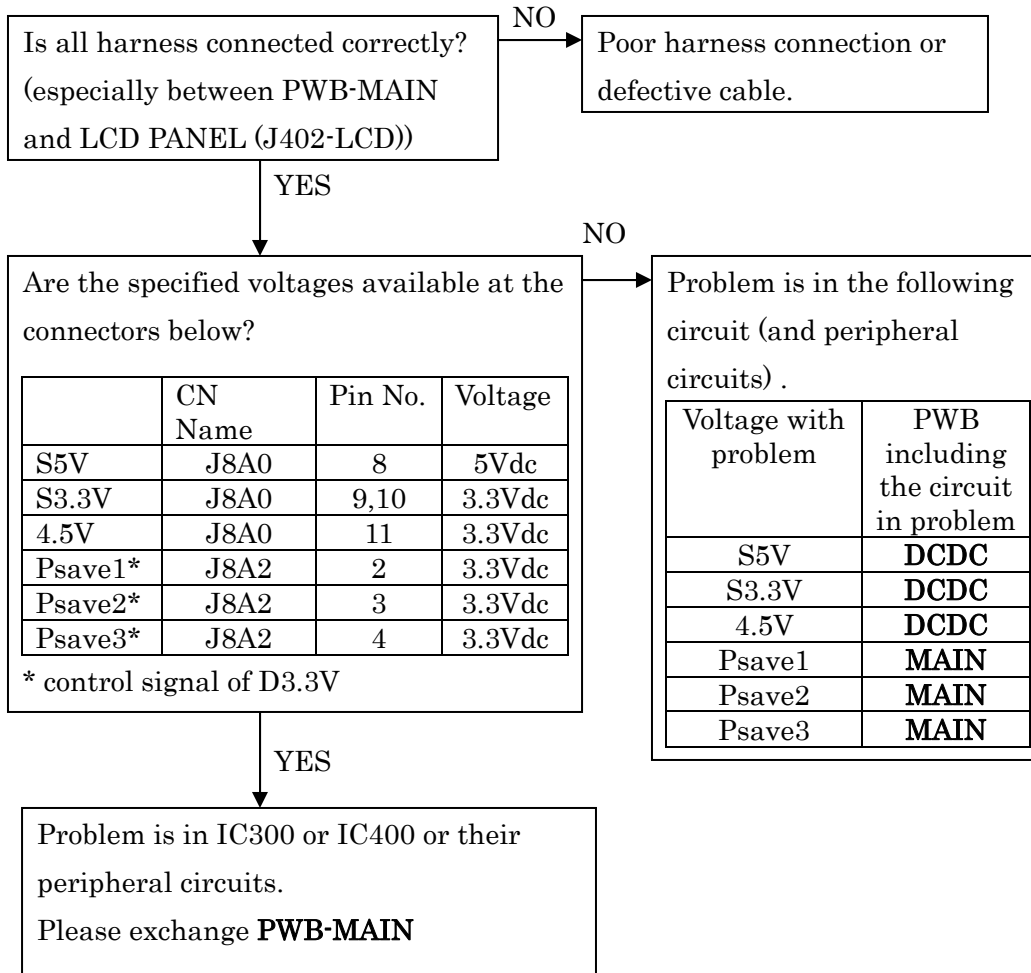
2. No picture displayed and picture errors.

Note) It applies when there is no screen display or an unusual screen is outputted, although 24V(Pin1,2 of J9A00) from PWB-POWER is outputted normally and the back light is turned on.

*Input source changes in following order with DEVICE UP button of remote control or DEVICE button of front switch.

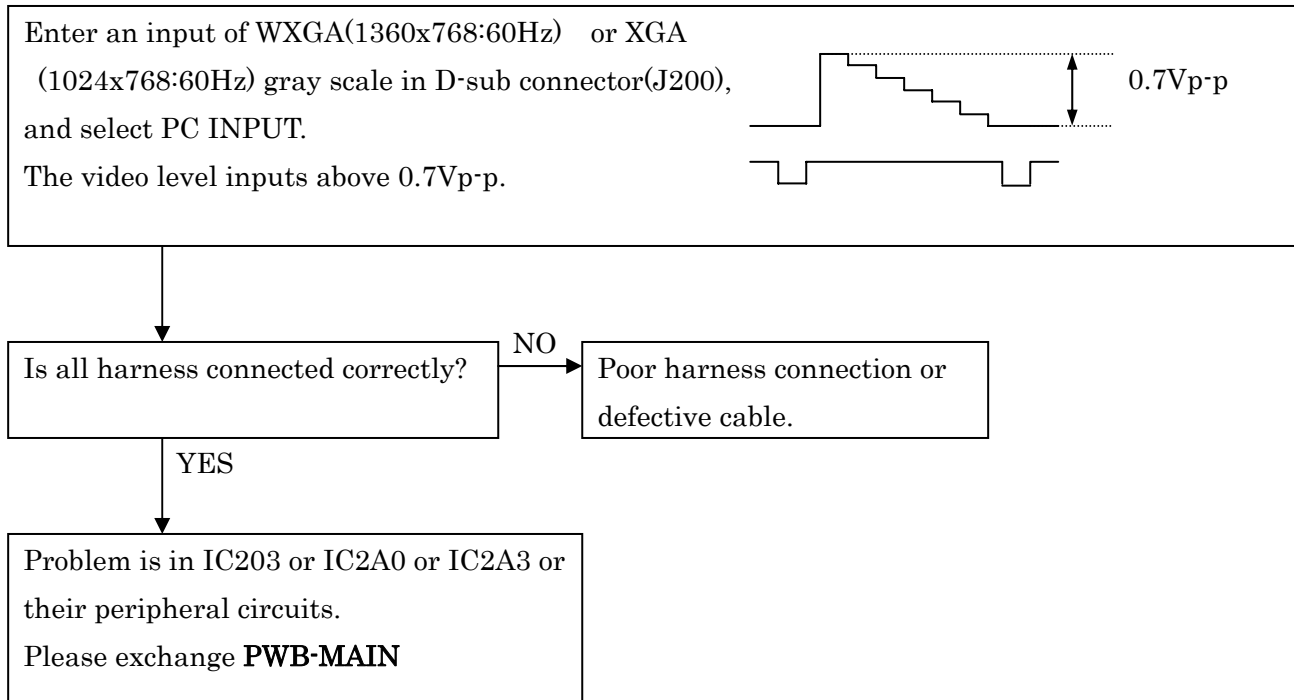


2-1. No picture displayed and picture errors of all input.

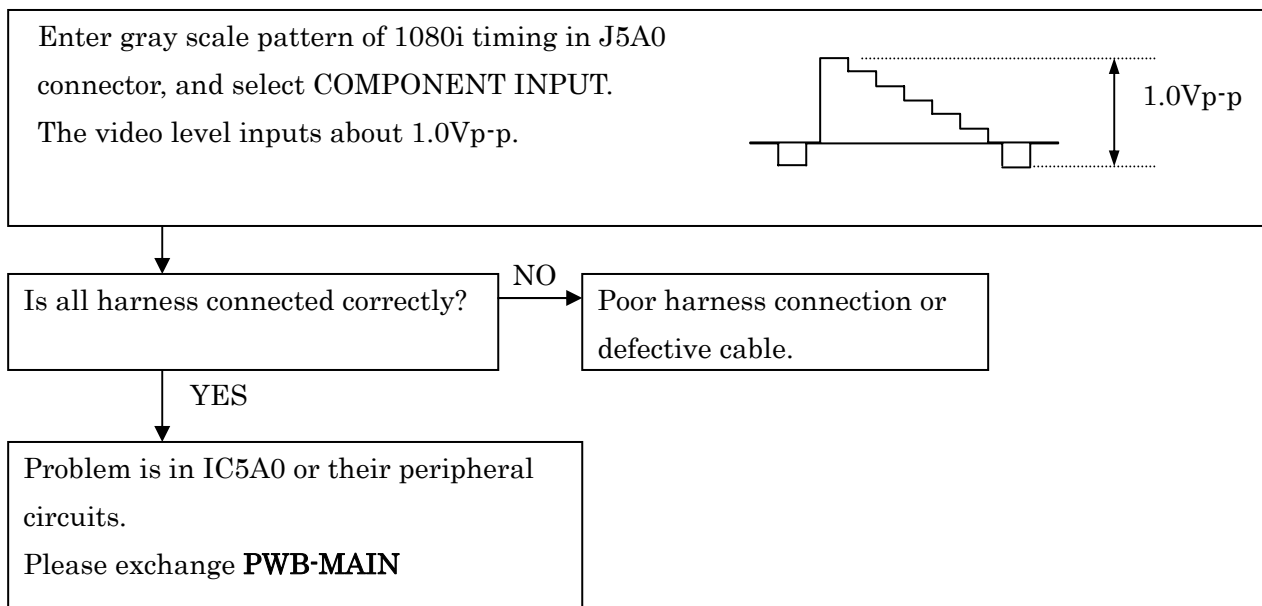


*When it cannot still fix, it may have a problem with LCD-Module.

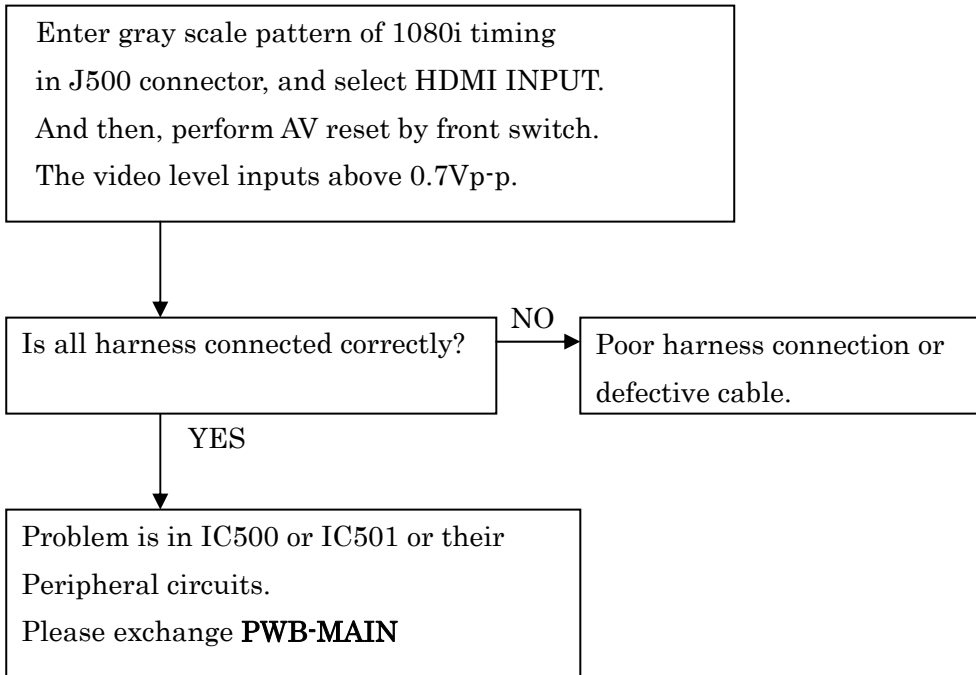
2-2. No picture displayed and picture errors of PC signal only.



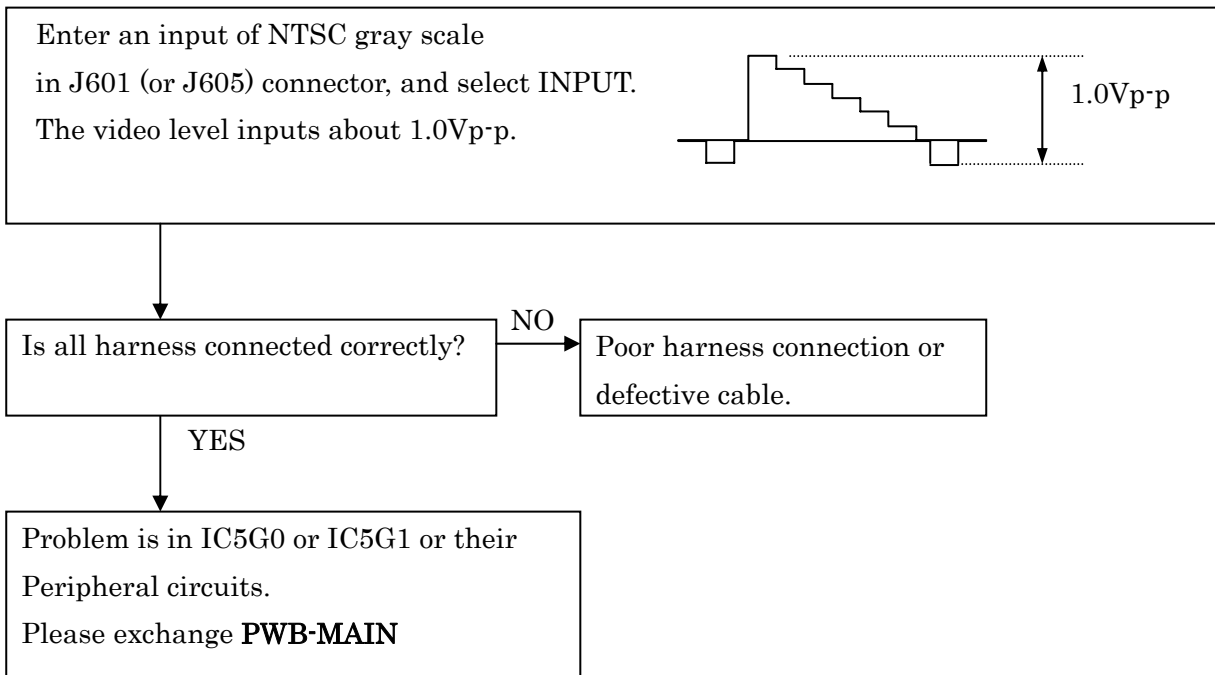
2-3. No picture displayed and picture errors of Component signal only.



2-4. No picture displayed and picture errors of HDMI signal only.

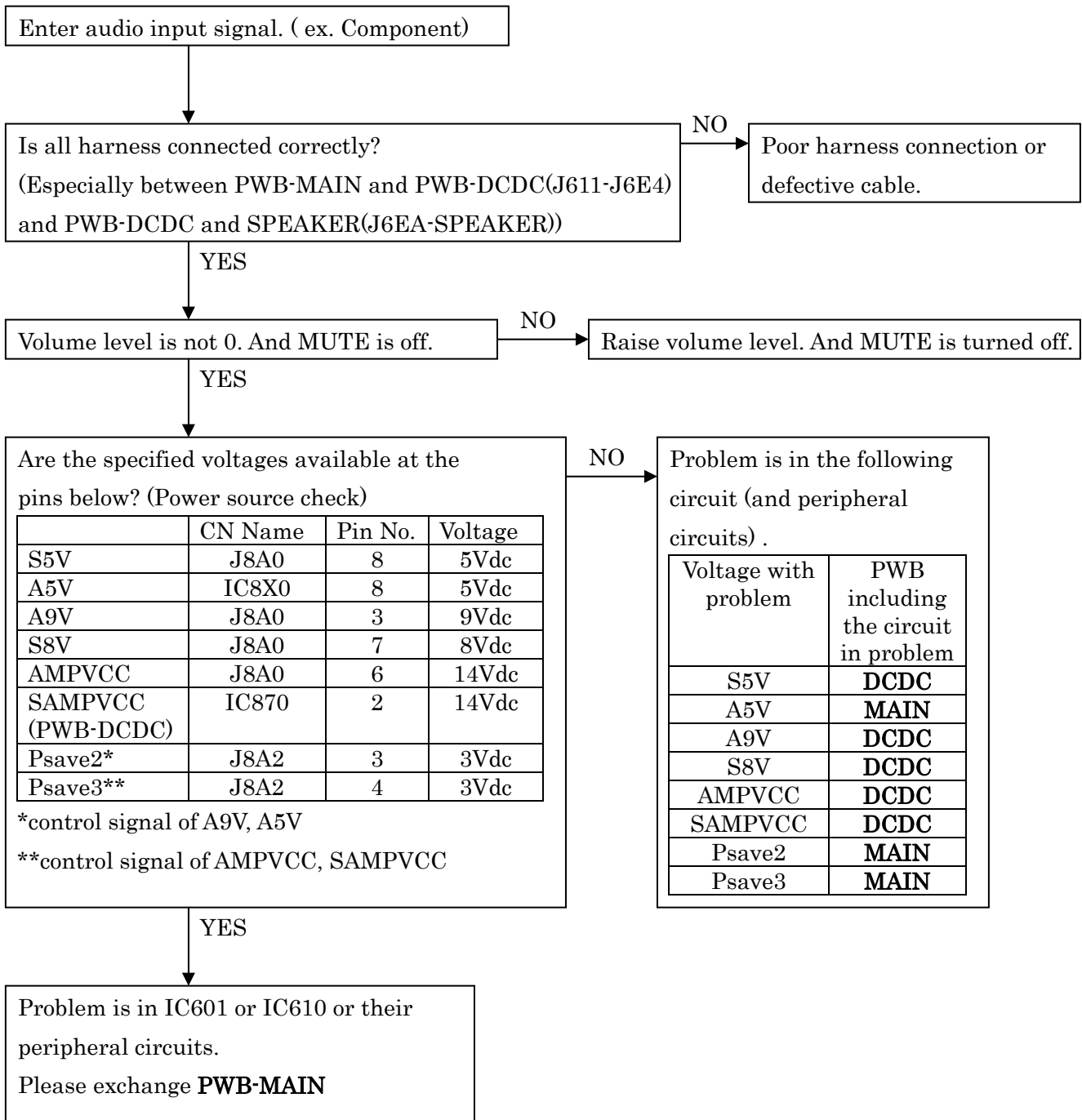


2-5. No picture displayed and picture errors of INPUT signal only(included S-Video).



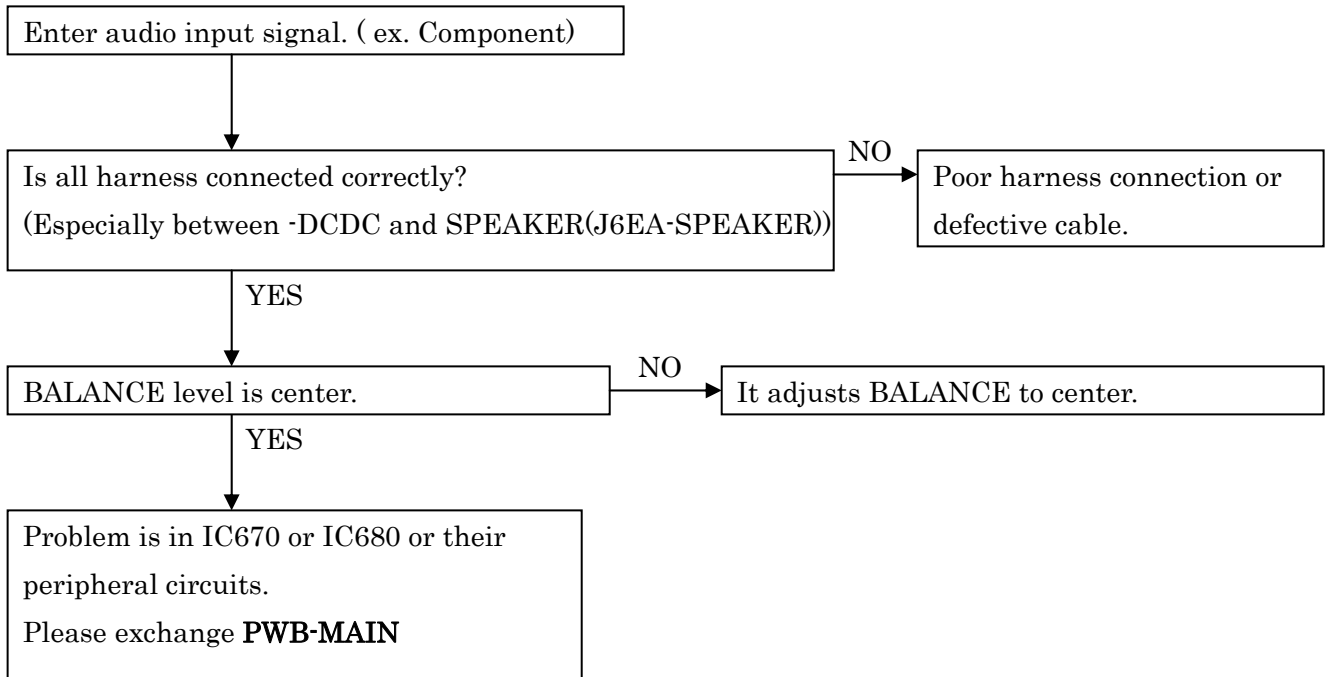
3. No audio output generated.

3-1. No all audio output generated.

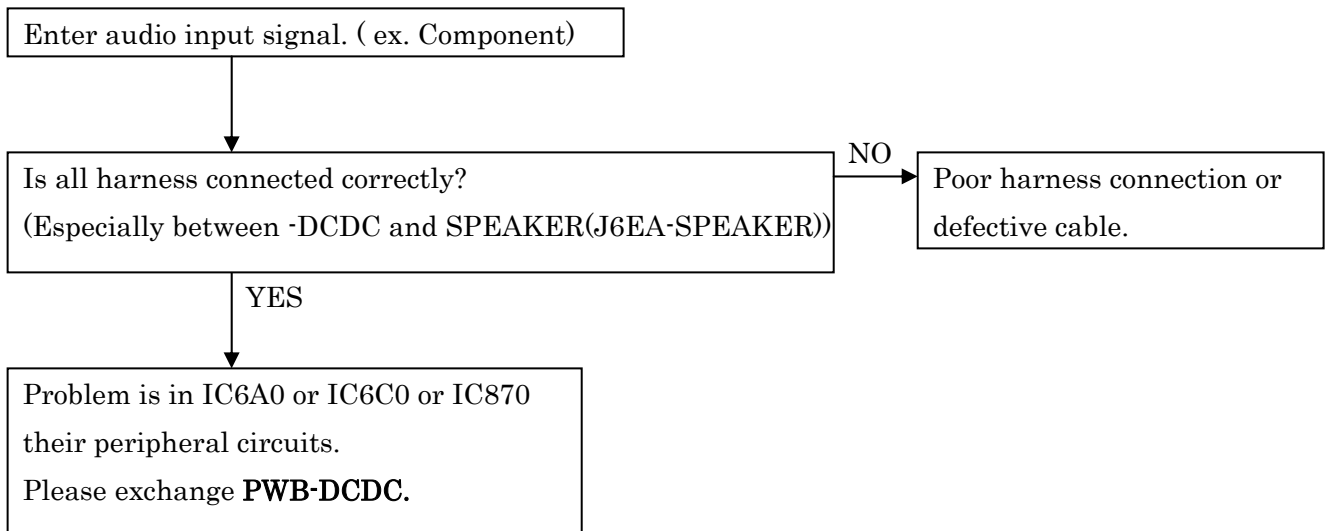


*When it cannot still fix, it may have a problem with SPEAKER.

3-2. No each(L or R) of audio output generated.



3-3. No woofer of audio output generated.



3-4. No HDMI audio output generated.

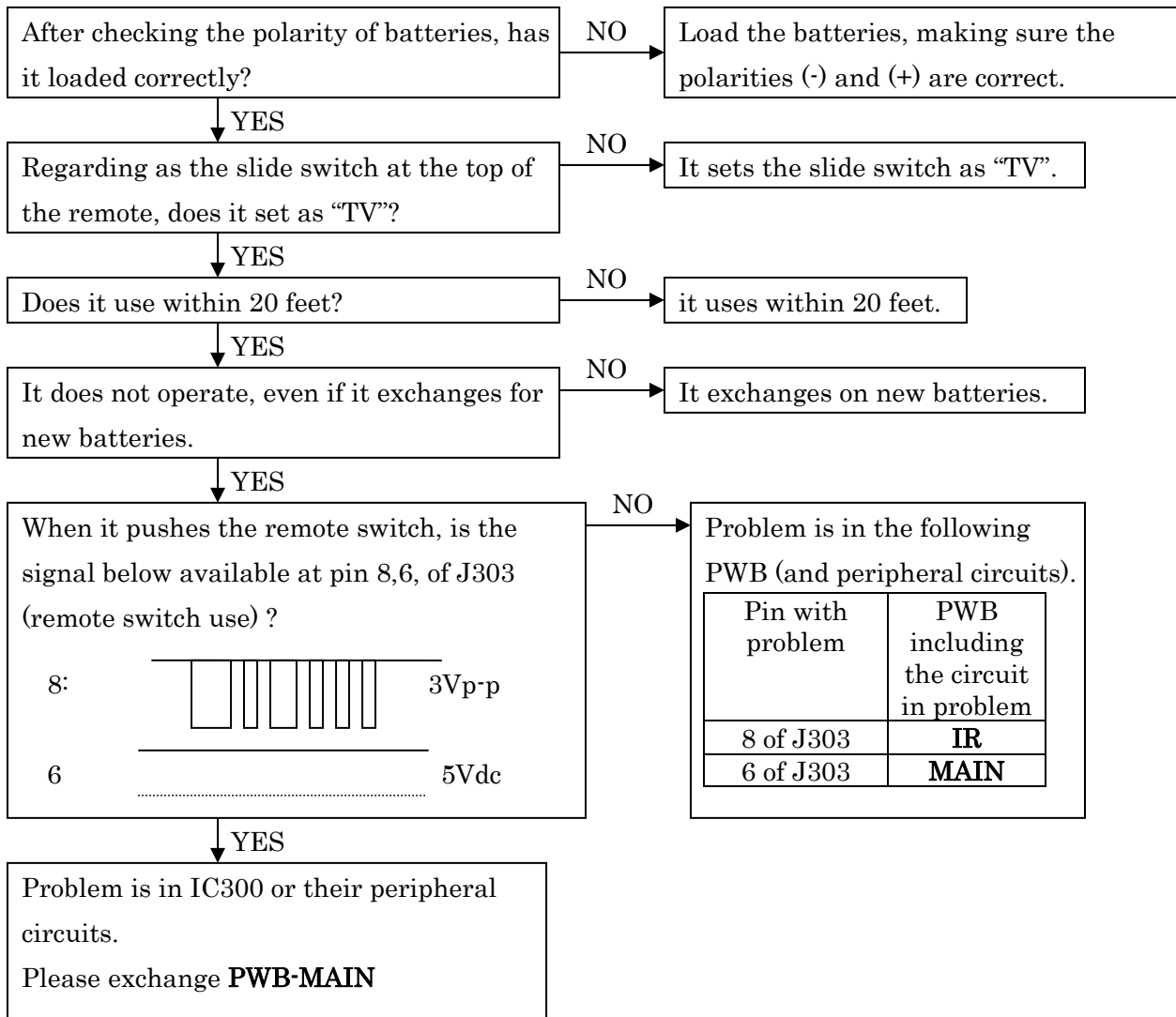
In case of no HDMI audio output generates, problem is in IC500 or IC602 or their peripheral Circuits. Please exchange PWB-MAIN.

3-5. No each (component or INPUT or PC) audio output generated.

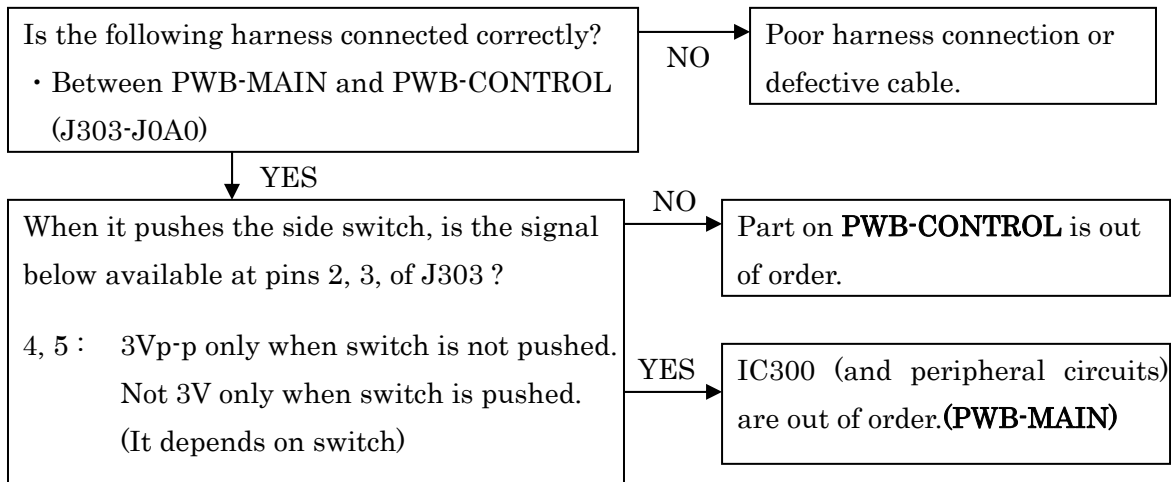
In case of no each (component or INPUT or PC) audio output generates, problem is in IC601 or connector of each input or their peripheral circuits. Please exchange PWB-MAIN.

4. Other faults

4-1. Remote control is not effective.

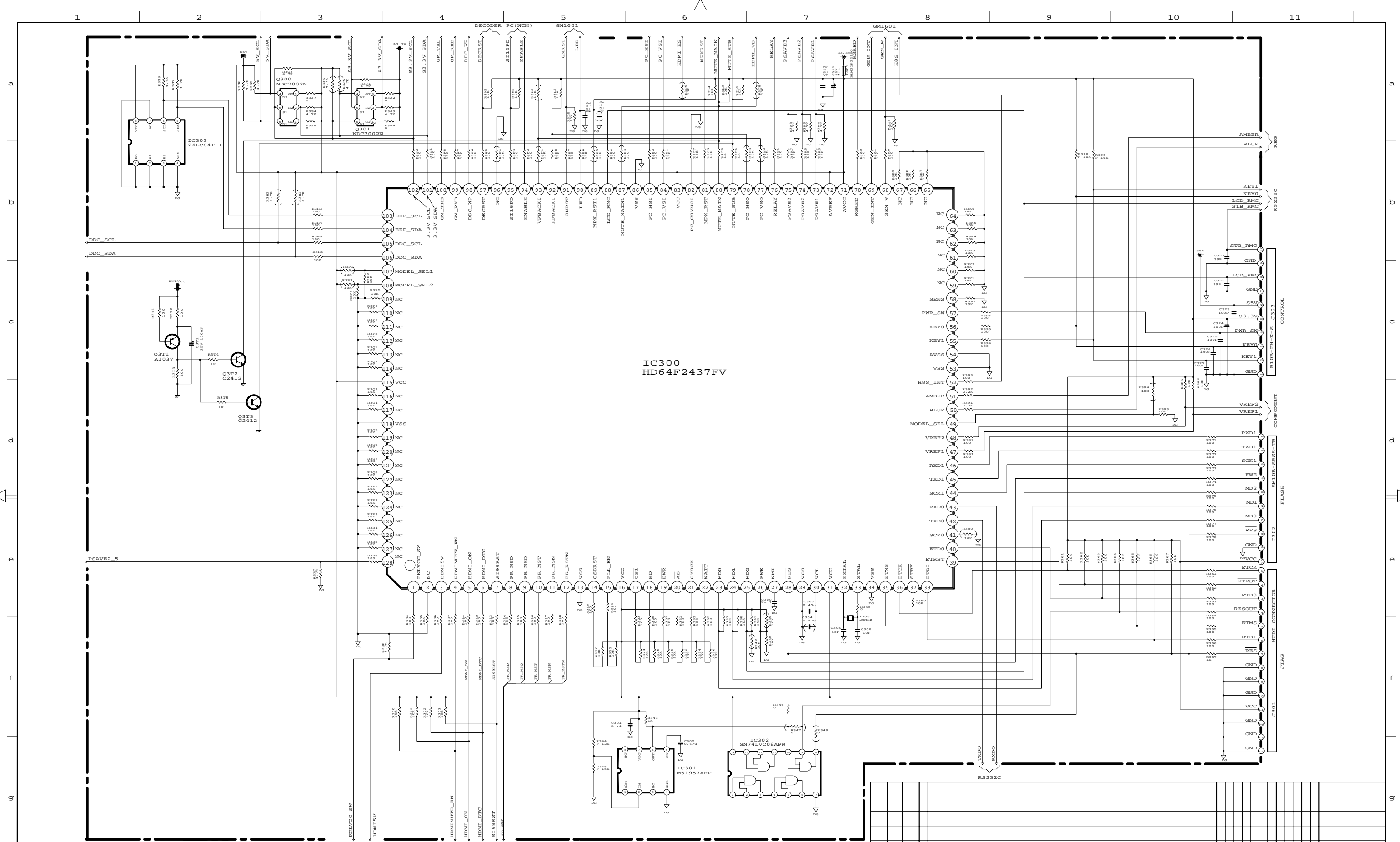


4-2. Side switch is not effective.



LT-4260 Parts List

Part Number	Description
03A684088	LCD-(LC420W02-A4K3) (T/A REQ)
LM-42T	MOUNT-PLASMA TILT
10106291	BACK-UNIT
10106221	BRACKET BEZEL TC ASSY
10108521	BEZEL-UNIT
RE080031	CABLE-USB HGRY USB 1.8M
RE010072	CABLE-VIDEO BLK DSUB-DSUB 2M
RG021011	CORD-POWER(2M)
11002861	COVER-REAR
11002871	COVER-REAR M
11002841	COVER-RIGHT
11002851	COVER-TERMINAL R
11302251	ORNAMENT
NLNJ01AY	PLATE-COSMETIC
AP0FR1ML	POWER-UNIT (HS210N2J) (T/A REQ)
AM0FR1ML	PWB-MAIN (LT-4260) (T/A REQ)
AS0FR1ML	PWB-SUB
290P118030	REMOTE
12301601	STAND-BASE BRACKET
12301641	STAND-BRACKET B
12301631	STAND-BRACKET L
12301611	STAND-BRACKET R
11002881	STAND-COVER BASE
11002891	STAND-COVER BOTTOM
11002911	STAND-COVER L
11002901	STAND-COVER R
H5100171	TRANSF-POWER

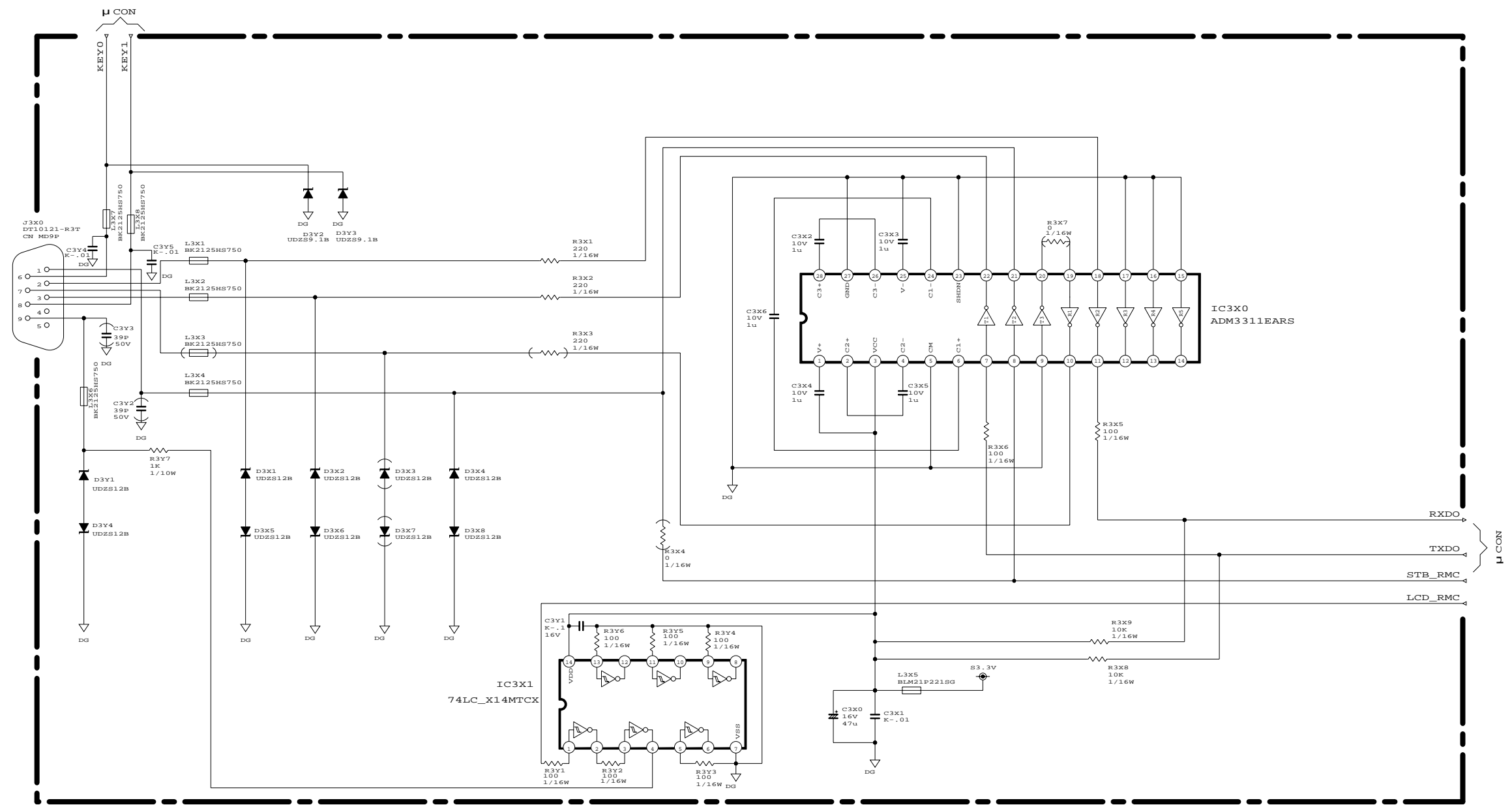


IC300
HD64F2437FV

1	2	3	4	5	6	7	8	9	10	11
LT-4260										
規格										(MI) MARK
MATERIAL AND DIMENSIONS										UNIT CODE
第3角法 3RD ANGLE PROJECTION DIM IN mm SCALE NTS 作成日付 DATE 2005.5.17										5 ~ 24
MITSUBISHI ELECTRIC CORPORATION										TITLE OF DRAWING uCON (MAIN) SCHEMATIC-DIAGRAM (2/16)
作成 DRAWN 检查 CHECKED 设计 DESIGNED 校核 APPROVED										25 26 27 28 29 30 31
摘要										REMARK

改定 CHANGE

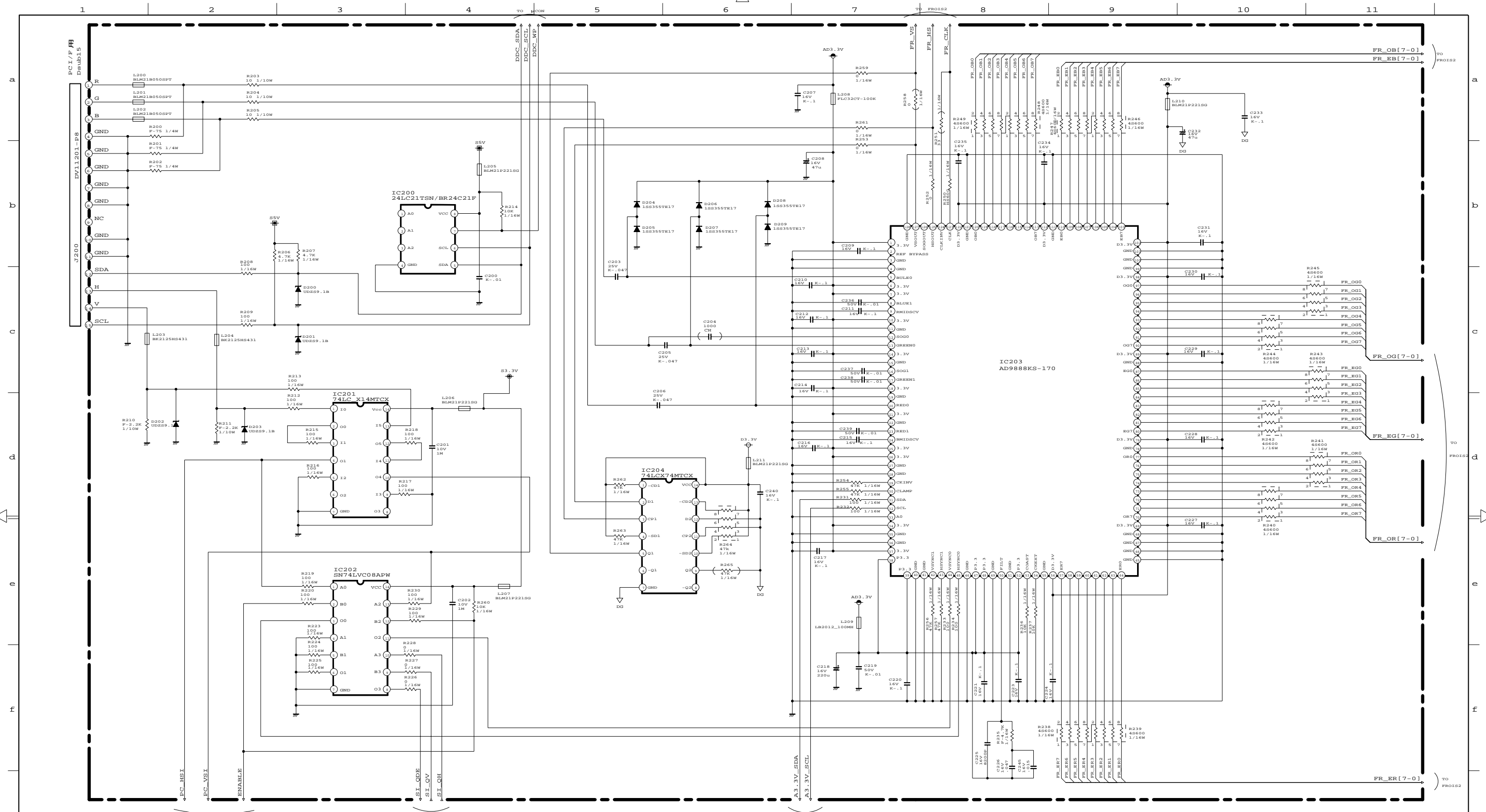
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改番		品番		出図先		第3角法 3RD ANGLE PROJECTION		DIM IN mm	尺度 SCALE	作成日付 DATE	RS232C (MAIN) SCHEMATIC-DIAGRAM (3/16)		摘要 REMARK
1		1		MP		NTS		2005.5.17	MITSUBISHI ELECTRIC CORPORATION		25 26 27 28 29 30 31		
作成 DRAWN		検査 CHECKED		設計 DESIGNED		校核 APPROVED							

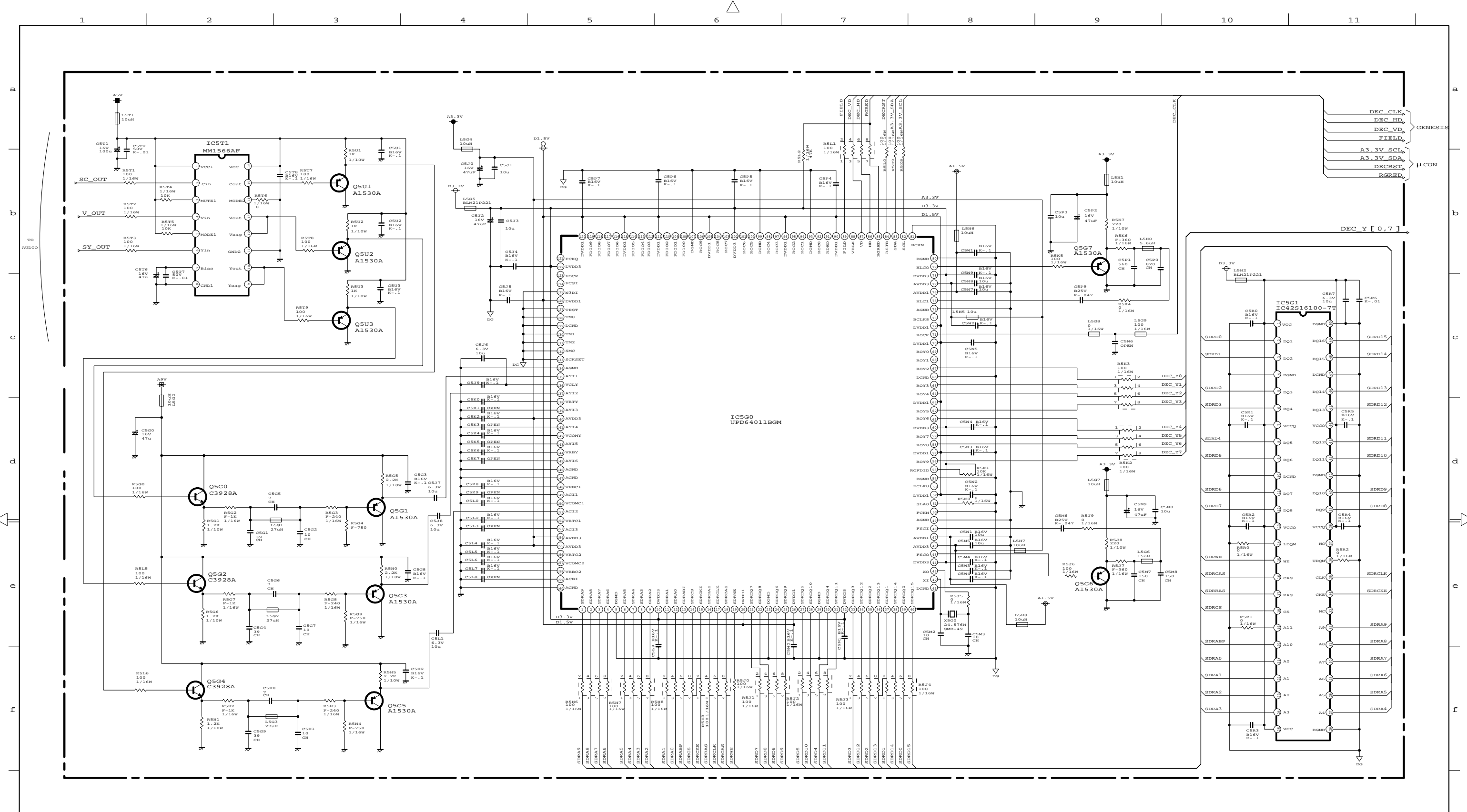
改定 CHANGE

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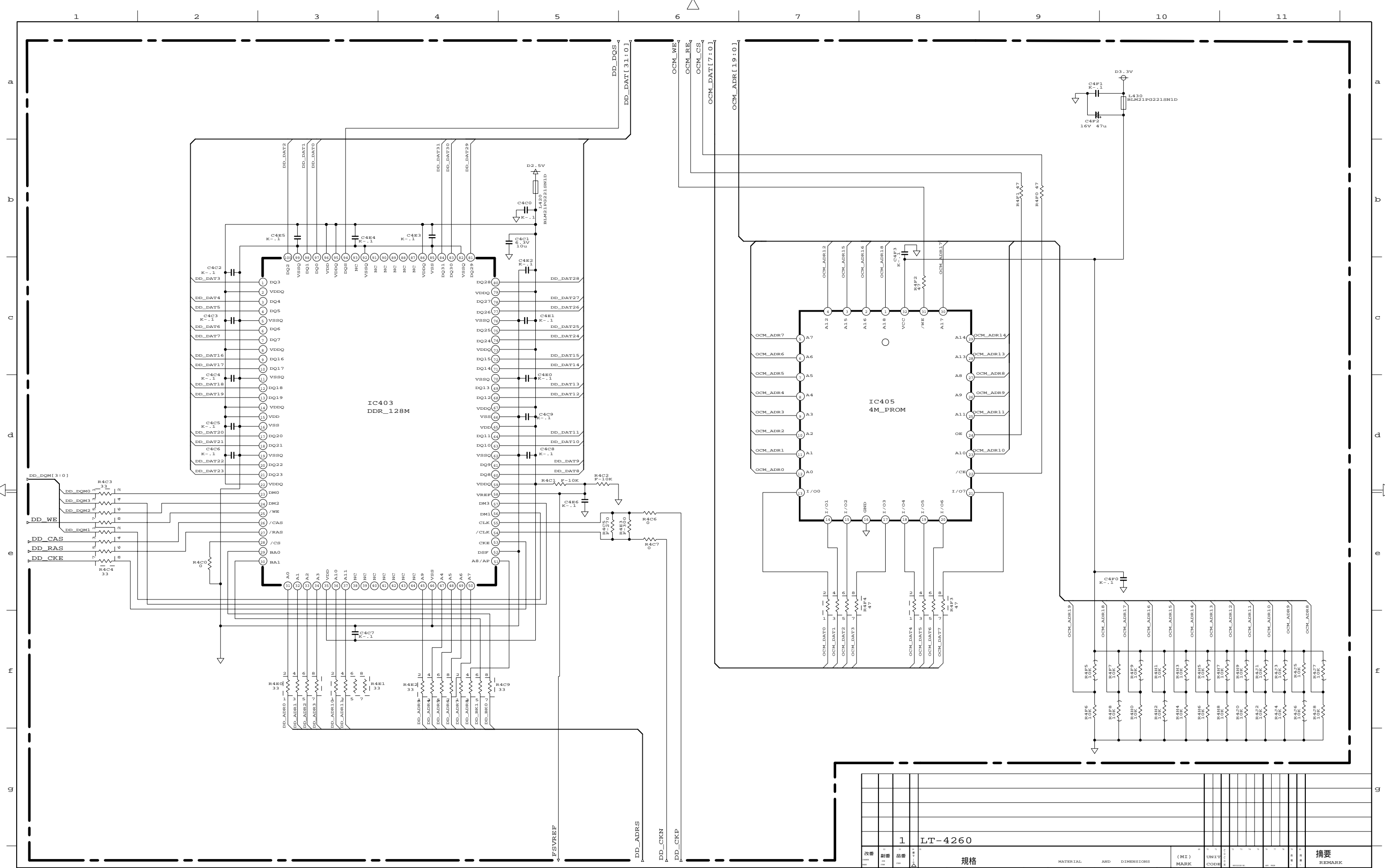


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出図先		第3角法 3RD ANGLE PROJECTION		尺度 SCALE		作成日付 DATE		AD (MAIN)		4/16	
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MP



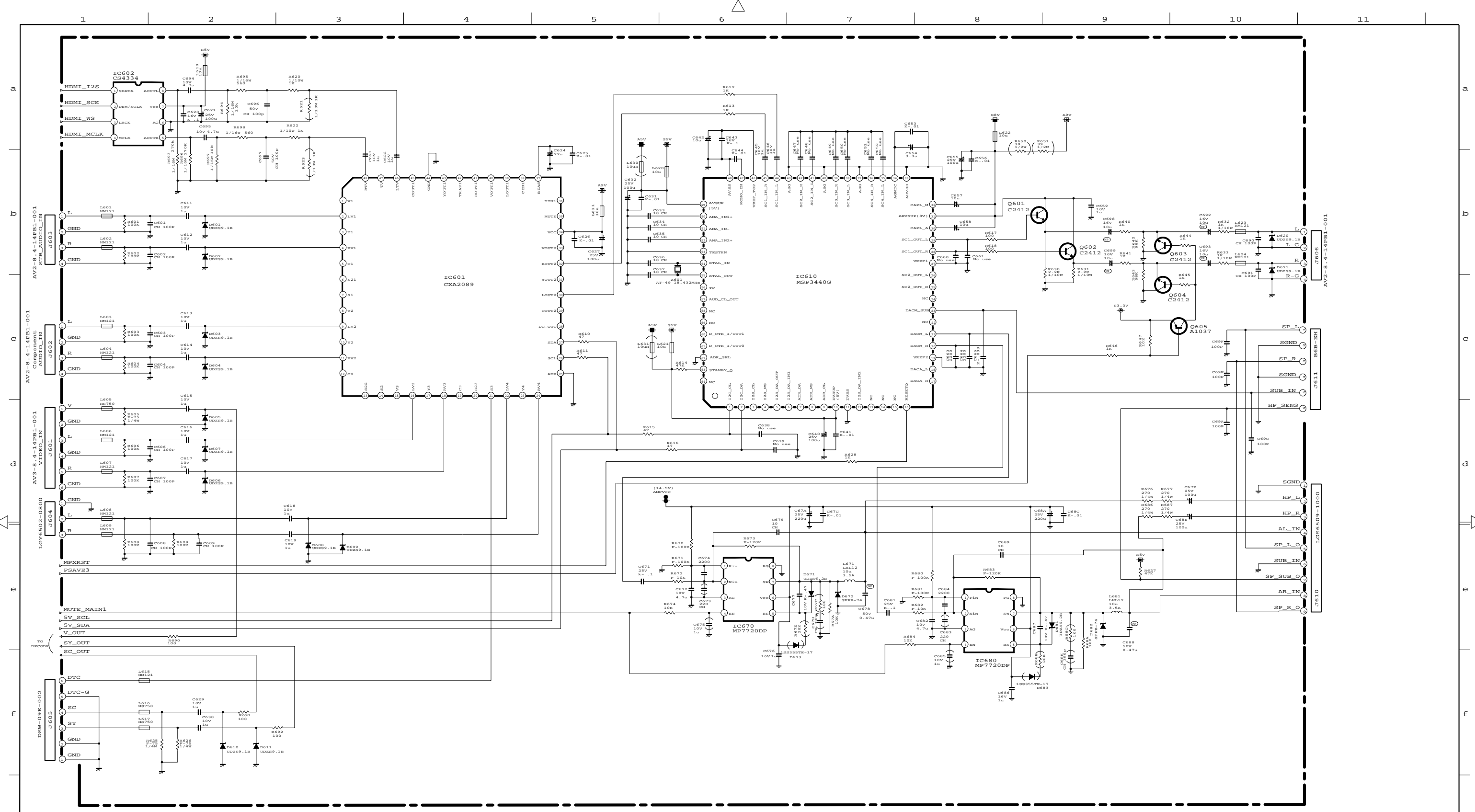
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改定 CHANGE

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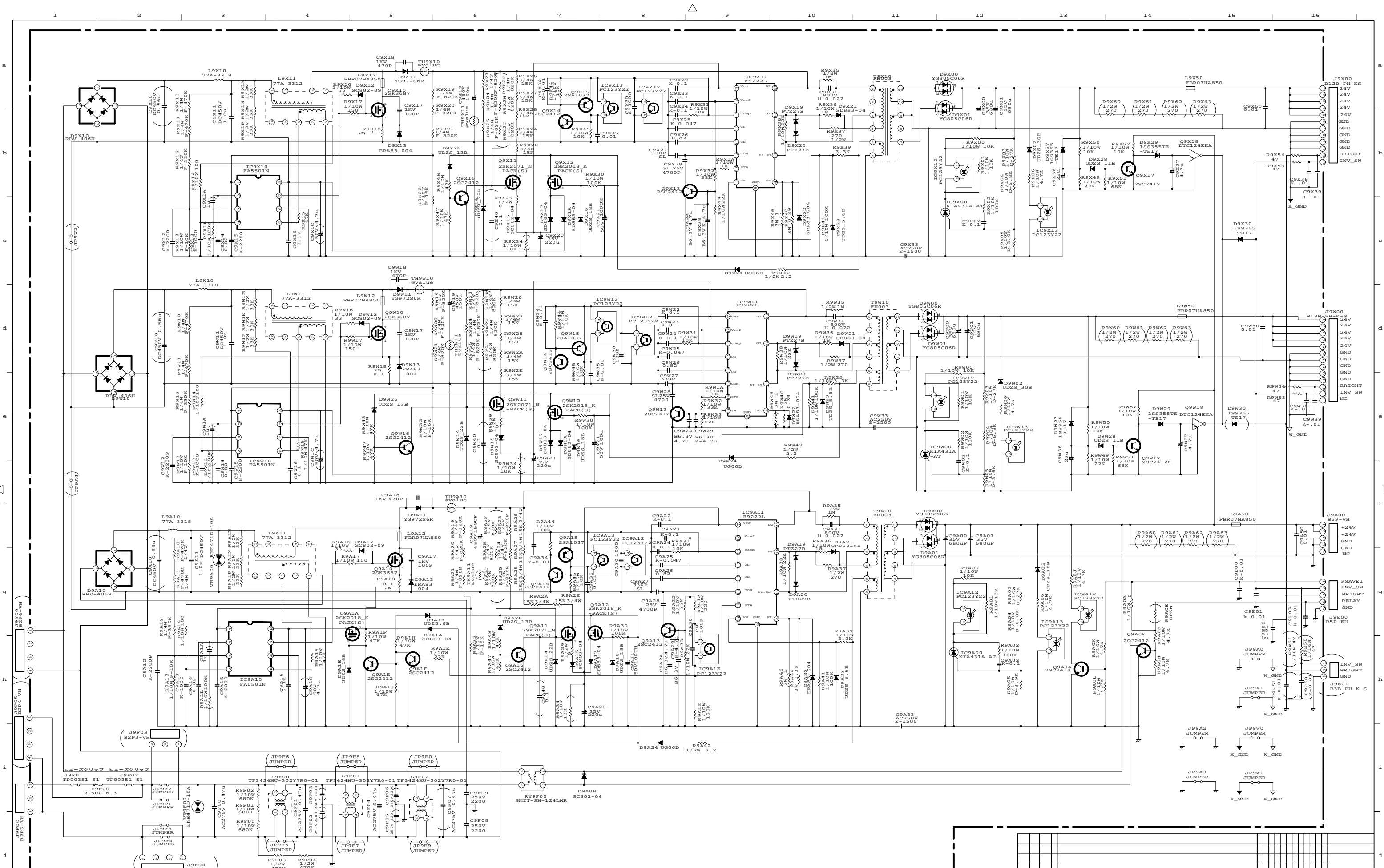
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MITSUBISHI ELECTRIC CORPORATION											SCHEMATIC-DIAGRAM (10/16)		
作成	检查	设计	校核							25 26 27 28 29 30 31			
DRAWN	CHECKED	DESIGNED	APPROVED										



改定 CHANGE

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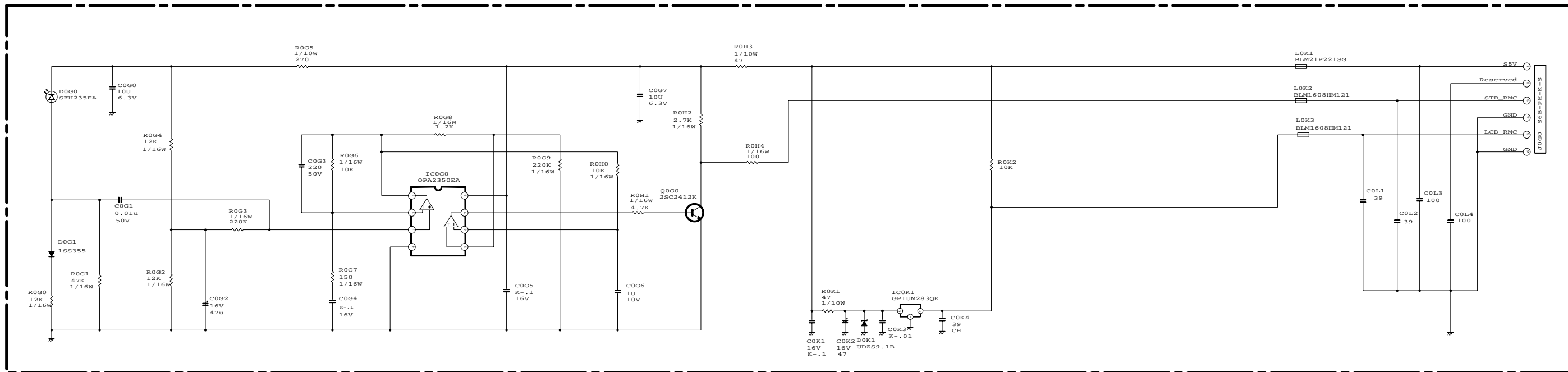
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作	成	者	計	核	計	日	2005.5.17			
DRAWN	CHECKED	DESIGNED	APPROVED					25	26	27
								28	29	30
								31		



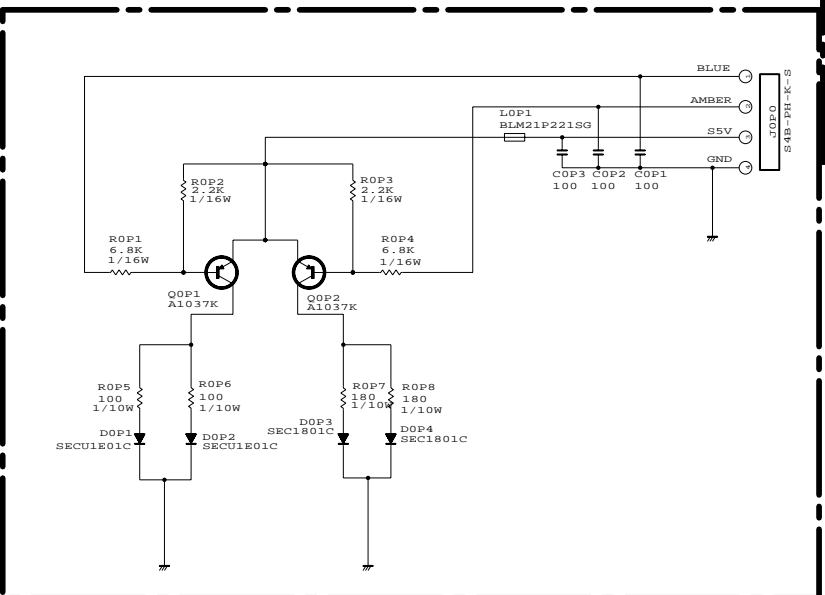
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1		1		1		1		1		1		1		25		31	
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MP

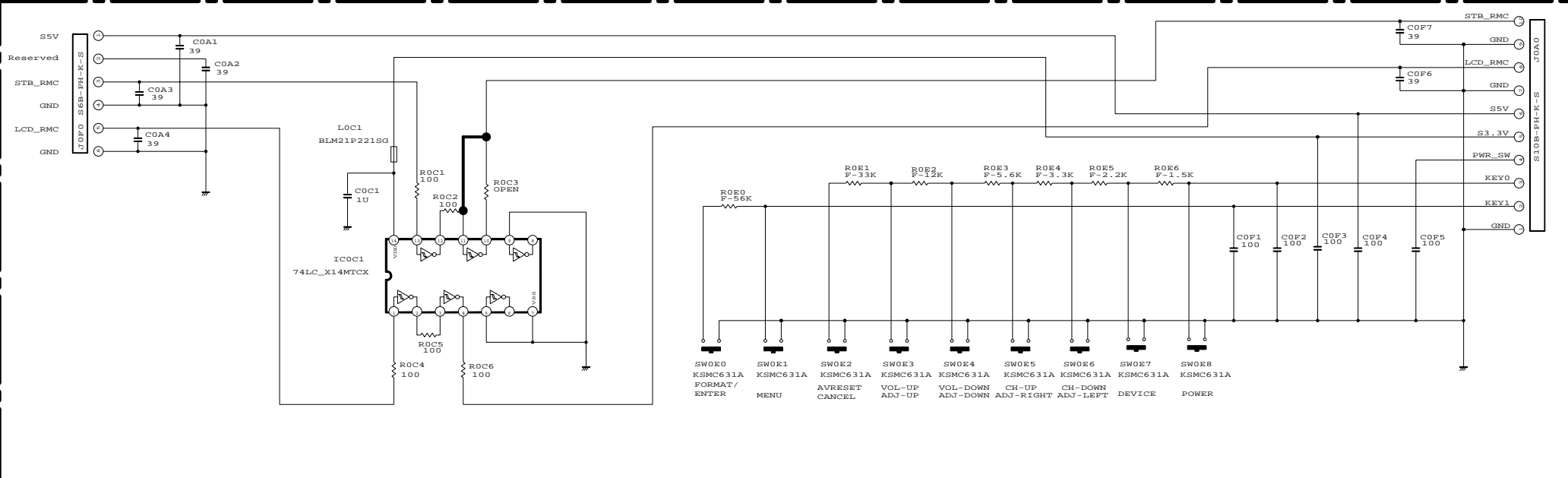
IR



LED



CONTROL



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MITSUBISHI ELECTRIC CORPORATION		DIM IN mm		SCALE		25		26 27 28 29 30 31	
作成 DRAWN		検査 CHECKED		設計 DESIGNED		検認 APPROVED		REMARK	

MP

改定 CHANGE