



SAMSUNG

5-Disc Changer MINI-Compact System

Model Name : MX-C630D

Model Code : MX-C630D/XER

SERVICE Manual

5-Disc Changer MINI-Compact System

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MX-C630D

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1. Precaution

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

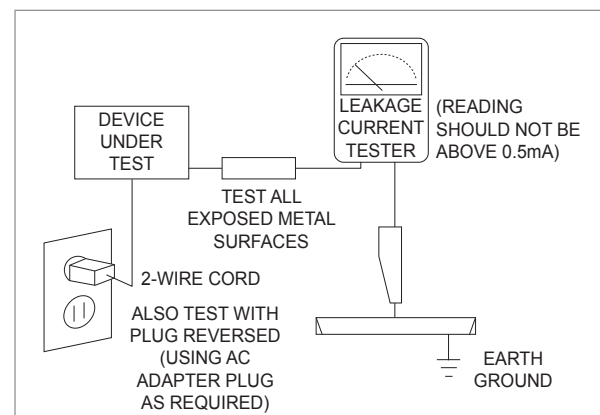
1. Be sure that all of the built-in protective devices are replaced.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.
4. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of the unit.
Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard.
Also, any design changes or additions will void the manufacturer's warranty.

5. Leakage Current Hot Check (Fig. 1-1):

Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, etc.) and all exposed metal parts. Examples:

Handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the powerplug prongs in the AC outlet and repeat.

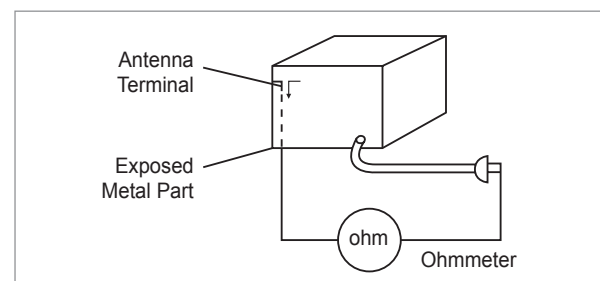


<Fig. 1-1 AC Leakage Test>

6. Insulation Resistance Cold Check:



(1) With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. (2) Set the power switch to ON. (3) Measure the resistance between the shorted AC plug and any exposed metallic parts.

Example: Screwheads, antenna, control shafts or handle brackets.



<Fig. 1-2 Insulation Resistance Test>

If any of the exposed metallic parts has a return path to the chassis, the measured resistance should be between 1 and 5.2 megohms. If there is no return path, the measured resistance should be "infinite." If the resistance is outside these limits, a shock hazard might exist. See Fig. 1-2.

7. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
8. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that no wires or components touch thermally hot parts.
9. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.
10. Components that are critical for safety are indicated in the circuit diagram by shading,  or . Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring may be clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.



First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor (“solid state”) devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as “anti-static” (these can accumulate sufficient electrical charge to damage ESDs).
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

2. Product Specification

2-1 Product Feature

2-1-1 MX-C630 Product Feature

■ Power

- 2.0 ch: 200W Total RMS / 2200W PMPO
- IR Amp

■ Regional Specialized function

- 5 Tray DISC PLAY
- CD Ripping (Able to ripping while listening)
- New Bass Sound System (Called GiGAS Sound)

■ Connectivity

- USB: To Enlarge the music ripping range
- Portable Audio In (3.5 phi Stereo Jack)
- Compatible: DVD, Divx, MP3, CD / CD-R, RW, WMA, VCD (Regional Option)

2-1-2 MX-C730 Product Feature

■ Power

- 2.0 ch: 360W Total RMS / 4000W PMPO
- IR Amp

■ Regional Specialized function

- 5 Tray DISC PLAY
- CD Ripping (Able to ripping while listening)
- New Bass Sound System (Called GiGAS Sound)

■ Connectivity

- USB: To Enlarge the music ripping range
- Portable Audio In (3.5 phi Stereo Jack)
- Compatible: DVD, Divx, MP3, CD / CD-R, RW, WMA, VCD (Regional Option)

2-2 Specifications

■ Basic Specification

RADIO FM	Signal/noise ratio	55 dB
	Usable sensitivity	12 dB
	Total harmonic distortion	0.6 %
RADIO AM	Signal/noise ratio	25 dB
	Usable sensitivity	70 dB
	Total harmonic distortion	2 %
COMPACT DISC PLAYER	Capacity	5 disc
	Frequency range	20 Hz - 20 KHz (± 1 dB)
	Signal/noise ratio	60 dB (at 1 KHz) with filter
	Distortion	0.3 % (at 1 KHz)
	Channel separation	50 dB
	Disc sizes	Diameter: 120 or 80 mm. Thickness: 1.2 mm
AMPLIFIER	Output power Front Speaker (4Ω)(MX-C630) Front Speaker (4Ω)(MX-C730)	100Watts/CH RMS, IEC (total harmonic distortion: 10 %) 180Watts/CH RMS, IEC (total harmonic distortion: 10 %)
	Channel separation	60 dB
	Signal/noise ratio	70 dB
	Power Consumption (MX-C630)	60 W
GENERAL	Power Consumption (MX-C730)	70 W
	Dimensions	270 (W) x 227 (H) x 230 (D) mm
	Weight	3.8 Kg




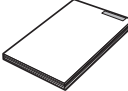
2-3 Specifications Analysis

Model Name	MX-C630	MX-C630D	MX-C730	MX-C730D	MAX-G55
Photo					
OUTPUT POWER	2.0ch 200W	2.0ch 200W	2.0ch 360W	2.0ch 360W	2.0ch 180W
FRONT DISPLAY	VFD	VFD	VFD	VFD	VFD
SLEEP	○	○	○	○	○
DIMMER	○	○	○	○	○
CD/DVD	CD	DVD	CD	DVD	CD
MP3	○	○	○	○	○
USB HOST	○	○	○	○	○
CD RIPPING	○	○	○	○	○
TAPE	X	○	○ (Only KOR)	○	X
AUDIO IN	○	○	○	○	○
HEADPHONE	○	○	○	○	○
FM / RDS	FM / AM	FM	FM / AM	FM	FM
REMOTE KEY	32 KEY	38 KEY	32 KEY	38 KEY	38 KEY
DUAL VOLTAGE	○	○	○	○	○
SPK IMPEDANCE	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm

※ ○: application, X: non-application

2-4 Accessories

2-4-1 Supplied Accessories

Accessories	Item	Item code	Remark
	Remote Control	AH59-02147V	Samsung Service Center
	Audio Cable	AH39-40001V	
	FM Antenna	AH42-00021A	
	User's Manual	AH68-02252P AH68-02252V	

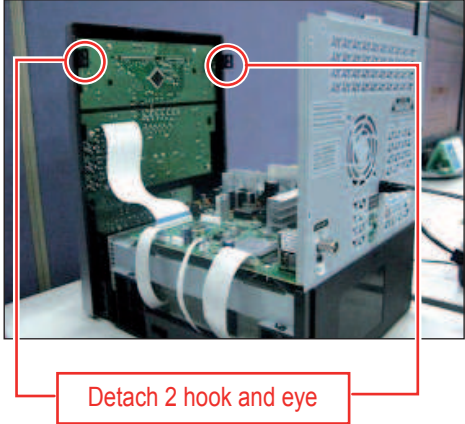
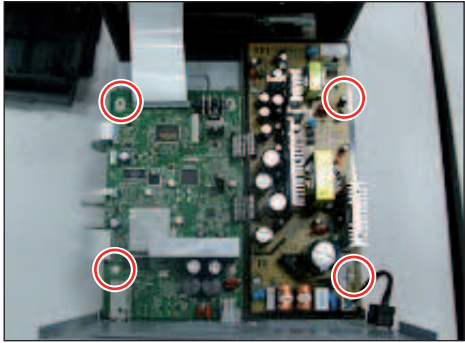
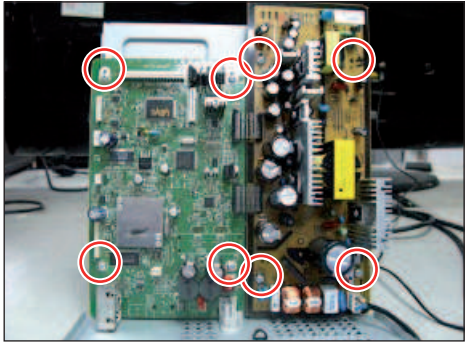

3. Disassembly & Reassembly

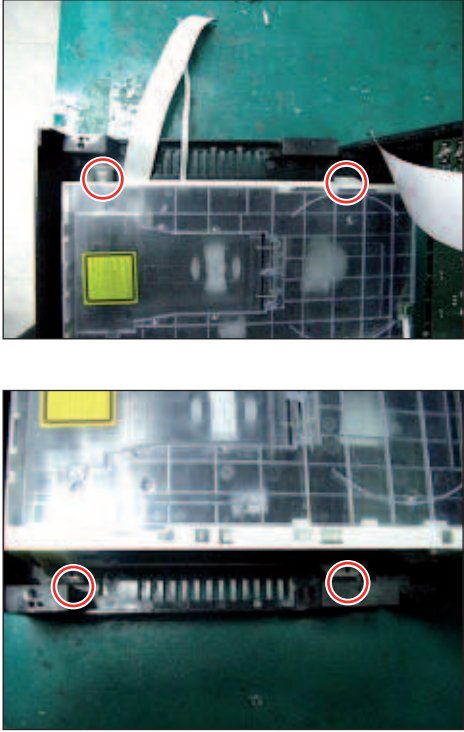
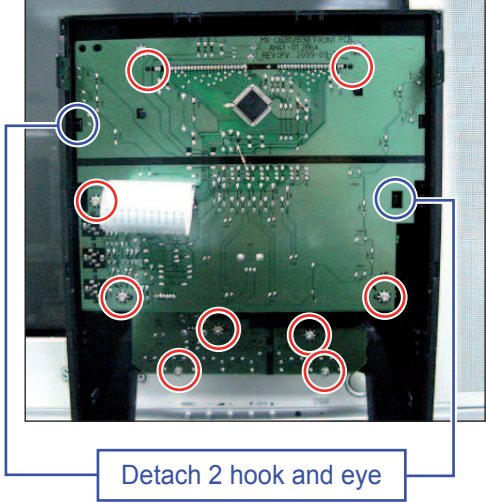
3-1 Overall Disassembly & Reassembly



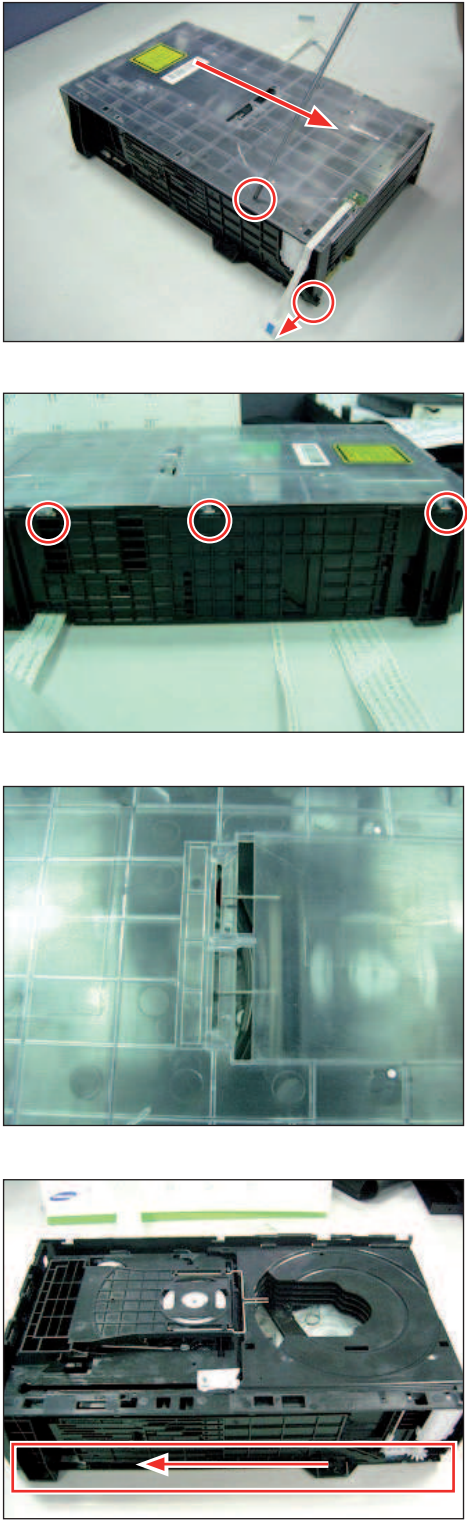
- Be careful to follow the disassembly sequence described in the manual. Otherwise, the product may be damaged.
- Be sure to carefully read and understand the safety instructions before performing any work as the IC chips on the PCB are vulnerable to static electricity.
- Assemble in the reverse order of disassembly.

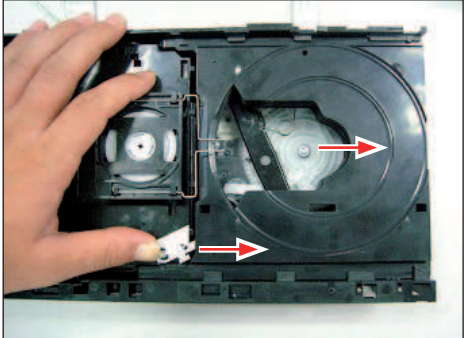
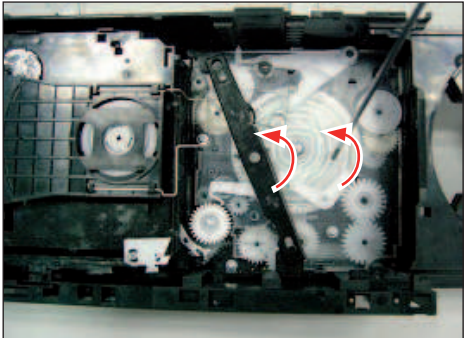
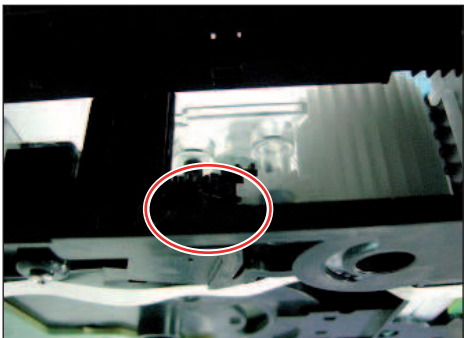

No.	Description	Description Photo
1	1) Unfasten 4 screws on side Cover. 2) Separate the side cover and unfasten 2 screws on back Cover.	
2	1) Unfasten 4 screws on side Cover and separate the side Cover.	


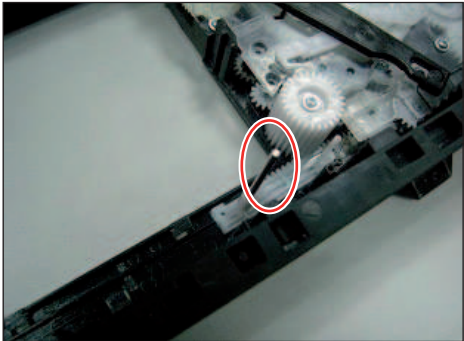
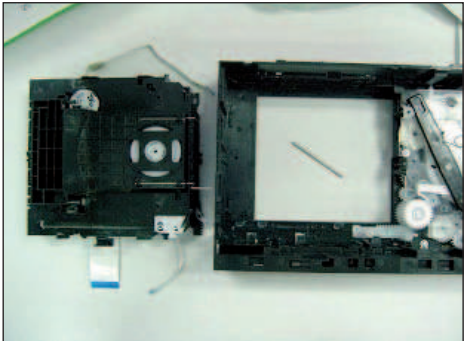
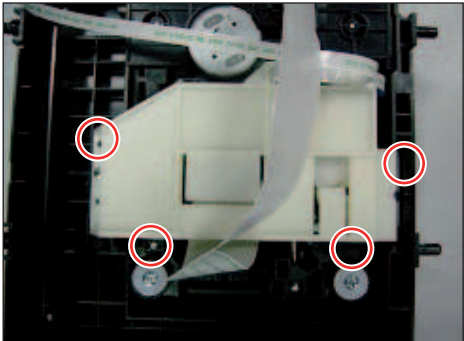
No.	Description	Description Photo
2	2) Separate the Top Cover.	
3	<p>1) Unfasten 4 screws, Detach Metallic shield to base.</p> <p>2) Unfasten 8 screws.</p> <p>3) Separate SMPS & MAIN PCB From metallic shield.</p>	  

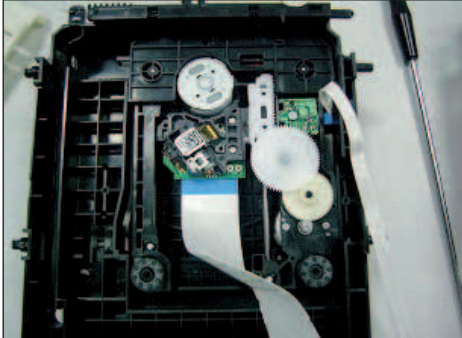
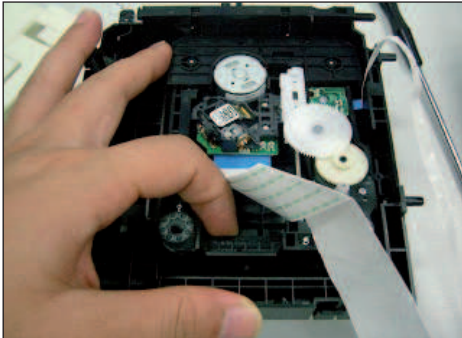
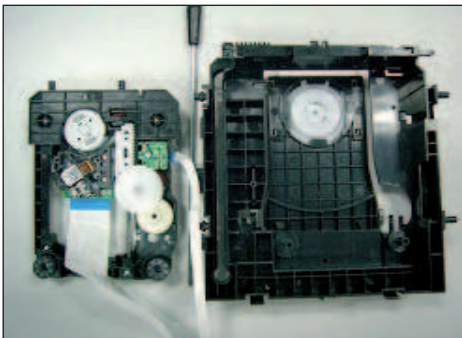
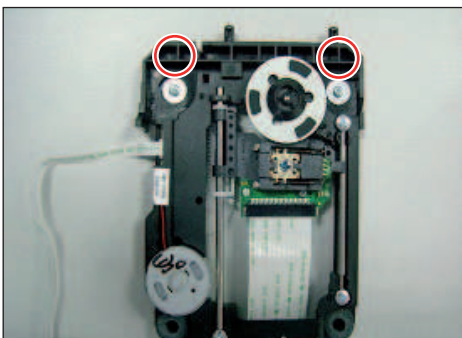
No.	Description	Description Photo
3	4) Unfasten 4 screws separate DECK from shield.	
4	1) Unfasten 9 screws. 2) Then separate the 2 front PCB From front panel.	

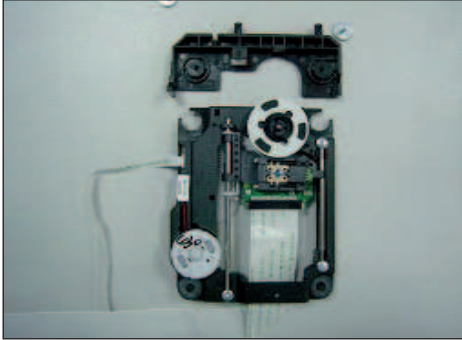
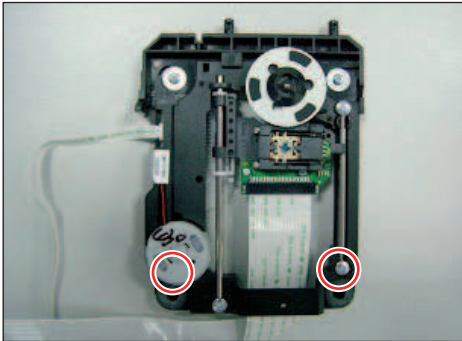
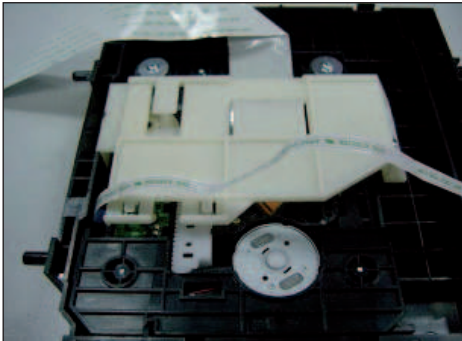
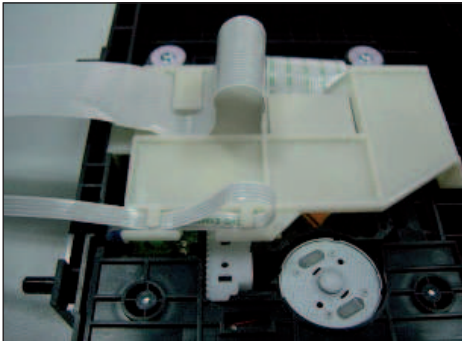
3-2 MECHA DECK Disassembly & Reassembly

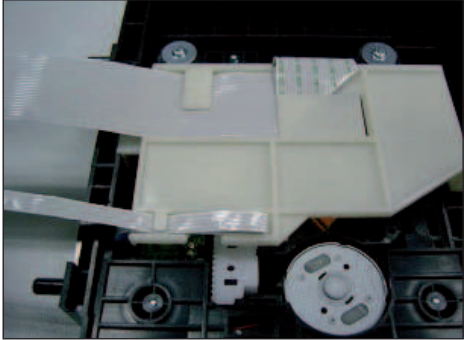
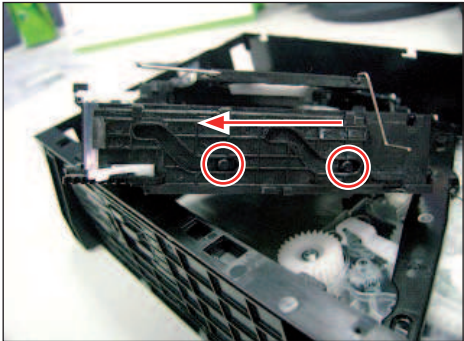
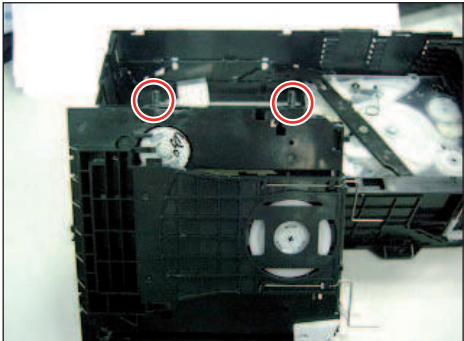
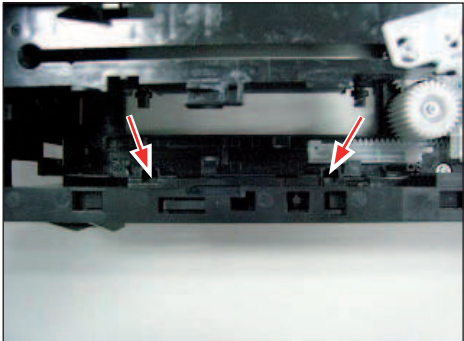
No.	Description	Description Photo
1	<p>1) Unfasten the screw and Separate the cable, push and slip the Cover-Top.</p> <p>2) Be careful the hook and eye.</p> <p>3) Be careful the Spring-stopper To keep from happening curve.</p> <p>4) Be careful the hook and eye.</p>	

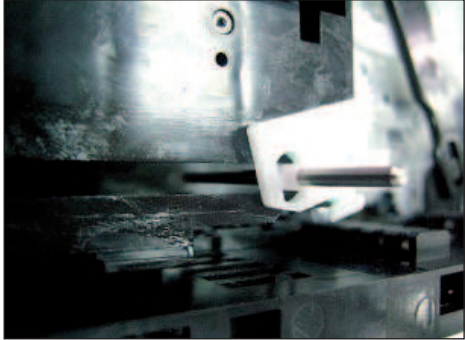
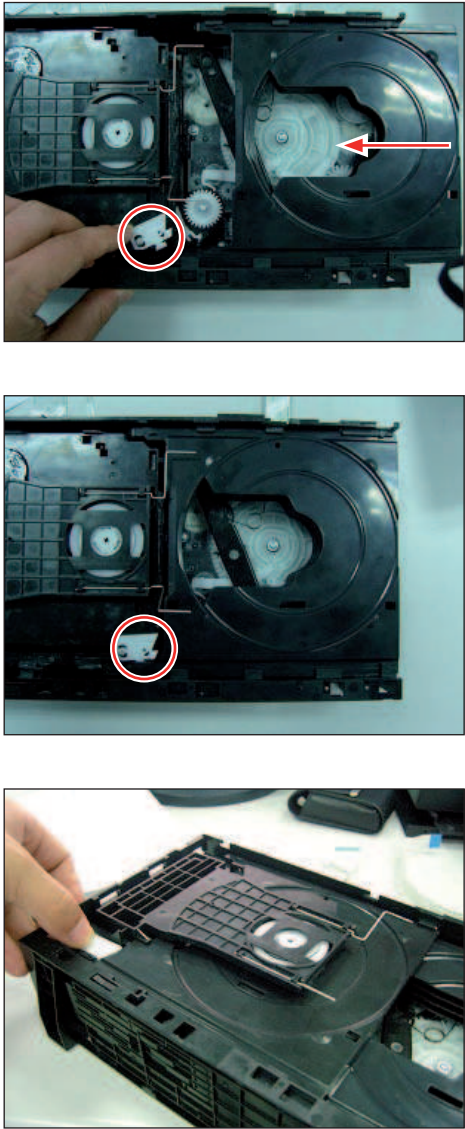
No.	Description	Description Photo
2	<p>1) Push the white swich and pull the 5 tray out.</p> <p>2) Turn the white wheel with counter-clockwise to end at first, then turn the lever-link.</p> <p>3) If you can't turn the lever-link, check the wheel.</p> <p>4) Push the hook, let the lever-link turn to right again.</p>	   

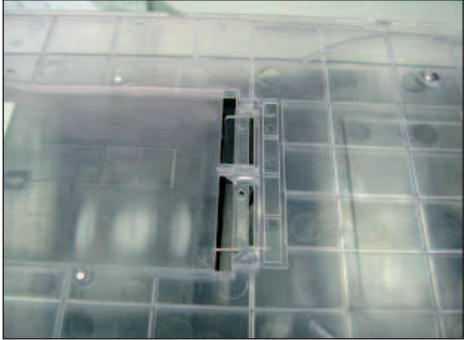
No.	Description	Description Photo
3	<p>1) Pull the Holder-Traverse, take it out.</p> <p>2) Take the shaft out and well-kept.</p> <p>3) Unfasten the 4 screws, separate the cable.</p>	   

No.	Description	Description Photo
4	<p>1) Separate the white cover.</p> <p>2) Pull the pick-up out.</p> <p>3) Unfasten the 2 screws.</p>	   

No.	Description	Description Photo
4	4) Separate the Chassis-Sub.	
5	<p>■ DECK Reassembly</p> <p>1) Pay attention to the hook and the rubber's direction.</p> <p>2) Assemble the white cover.</p> <p>3) Use the right way assemble the cable.</p>	  

No.	Description	Description Photo
5		
6	<p>1) Slip the Slider-Cam in the right.</p> <p>2) Aim at the holes when assemble the Holder- Traverse.</p> <p>3) Aim at the other holes.</p>	  

No.	Description	Description Photo
6	4) After assemble the Holder-Traverse, adjust the lever-link and input the shaft.	
7	<p>1) Push the tray in, hook the top tray.</p> <p>2) Hook the top tray.</p> <p>3) Test the hook's work.</p>	

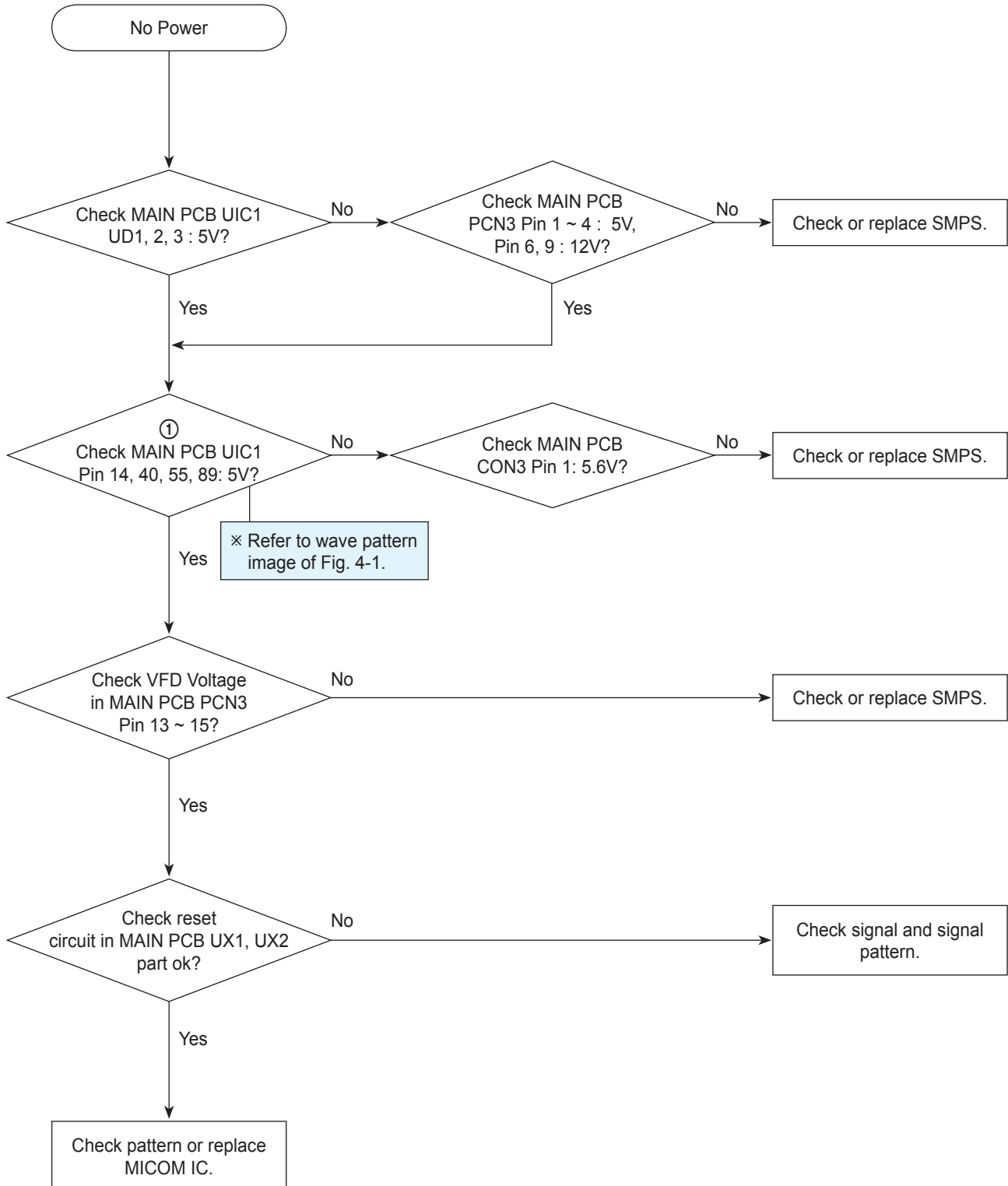
No.	Description	Description Photo
7	4) Be careful the Spring-stopper To keep from happening curve when you assemble the Cover-Top.	

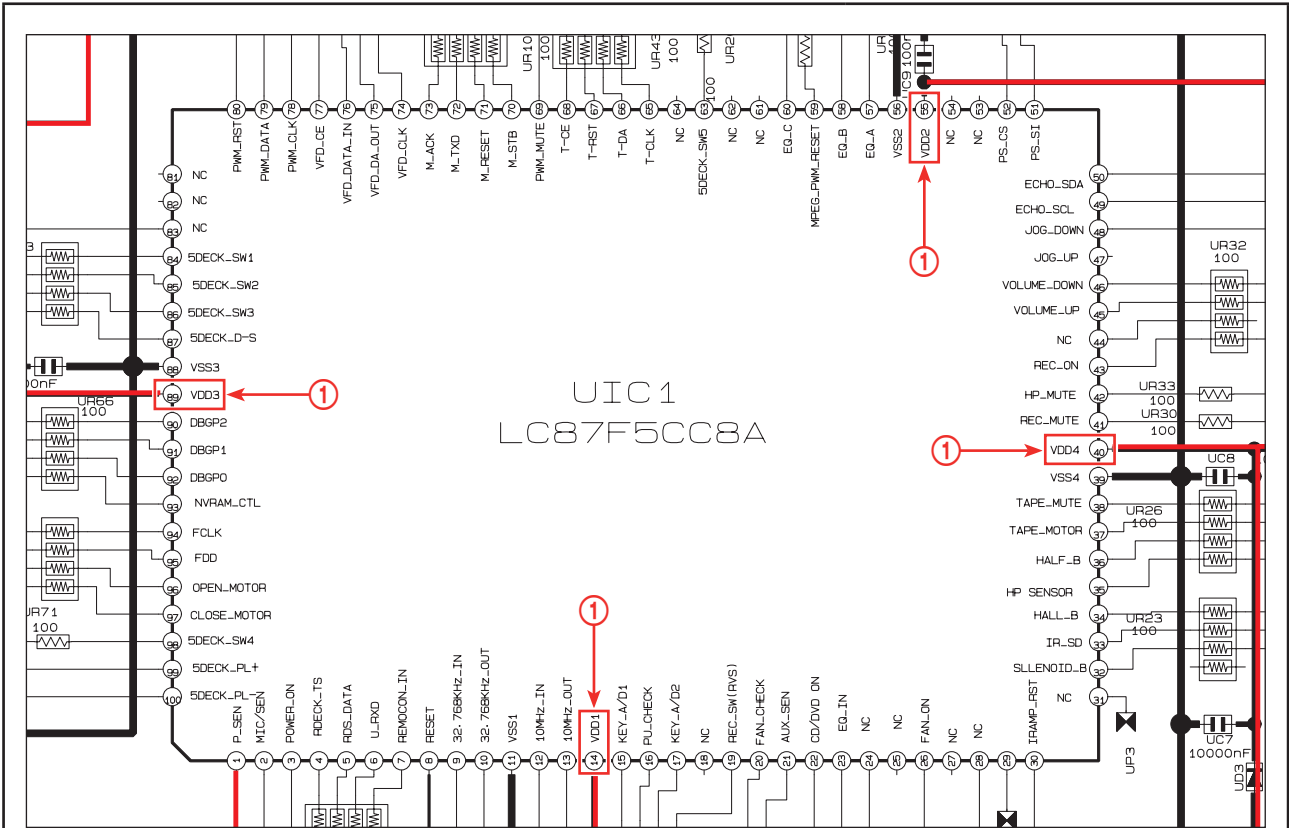
MEMO

4. Troubleshooting

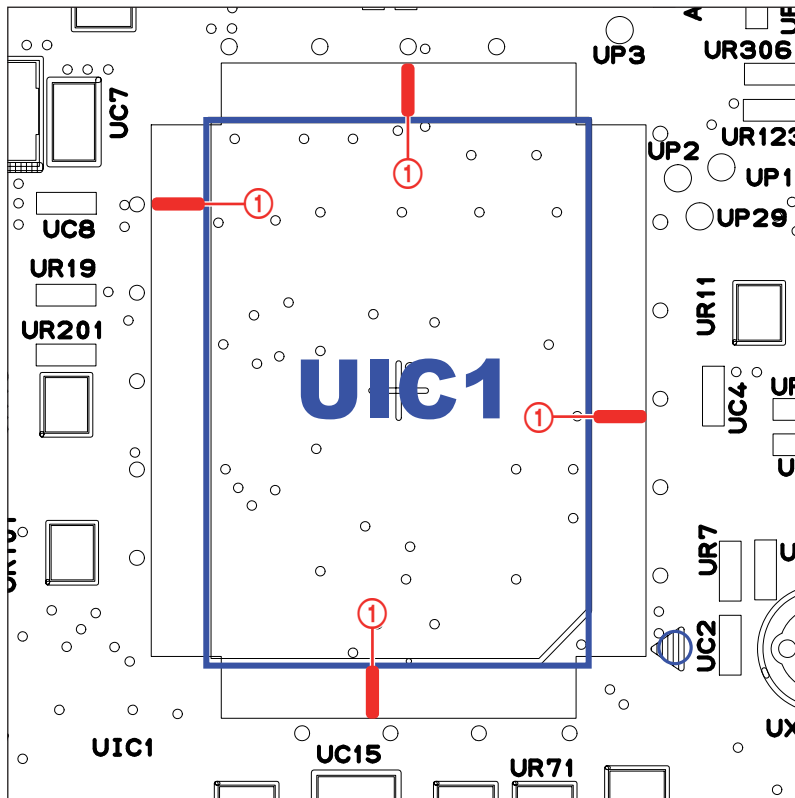
4-1 Checkpoints by Error Mode

4-1-1 No Power

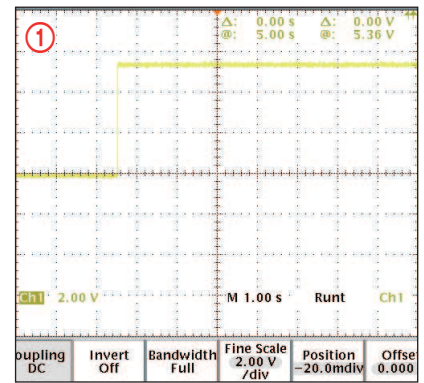




※ MAIN_MICOM, page 7-3

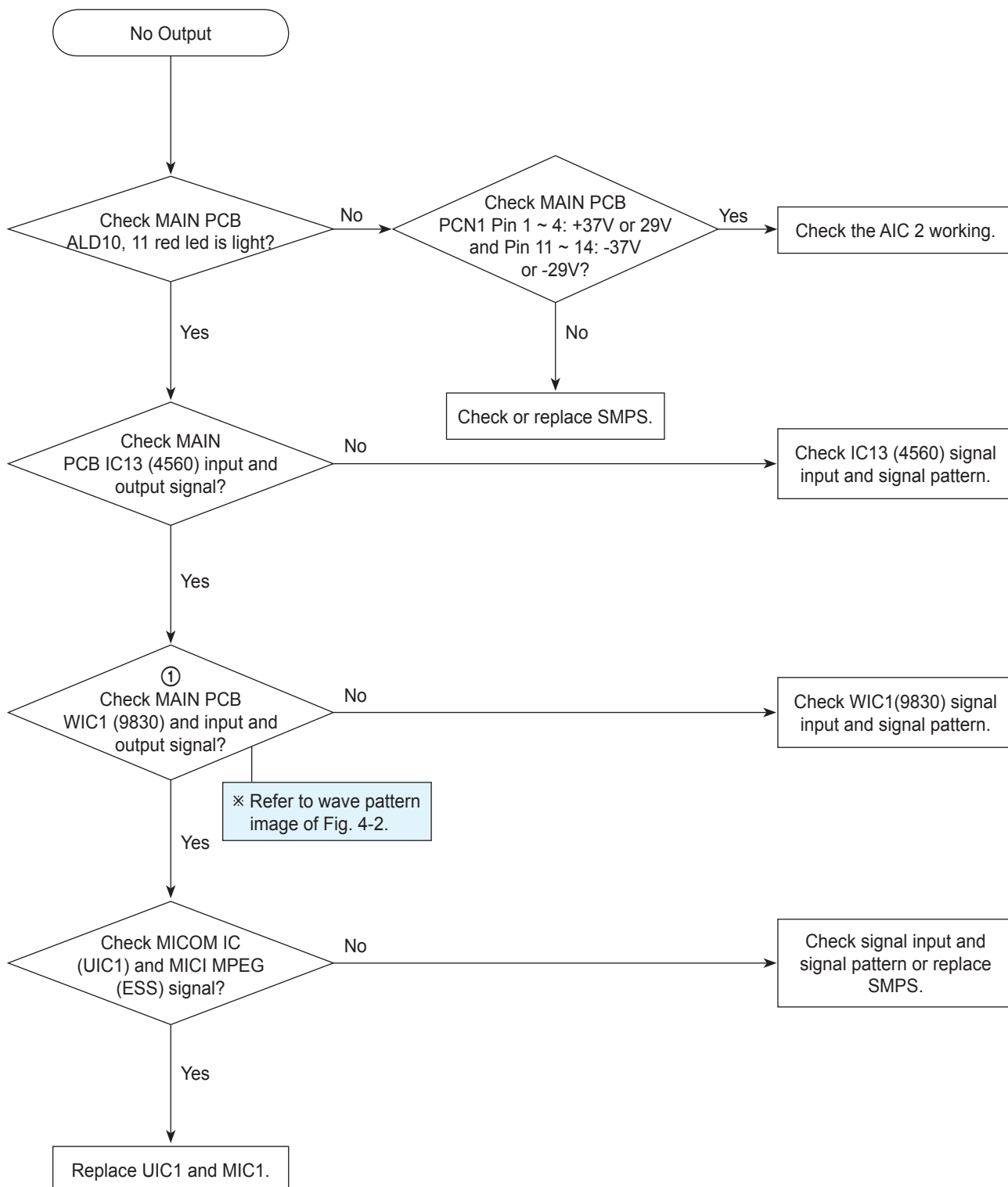


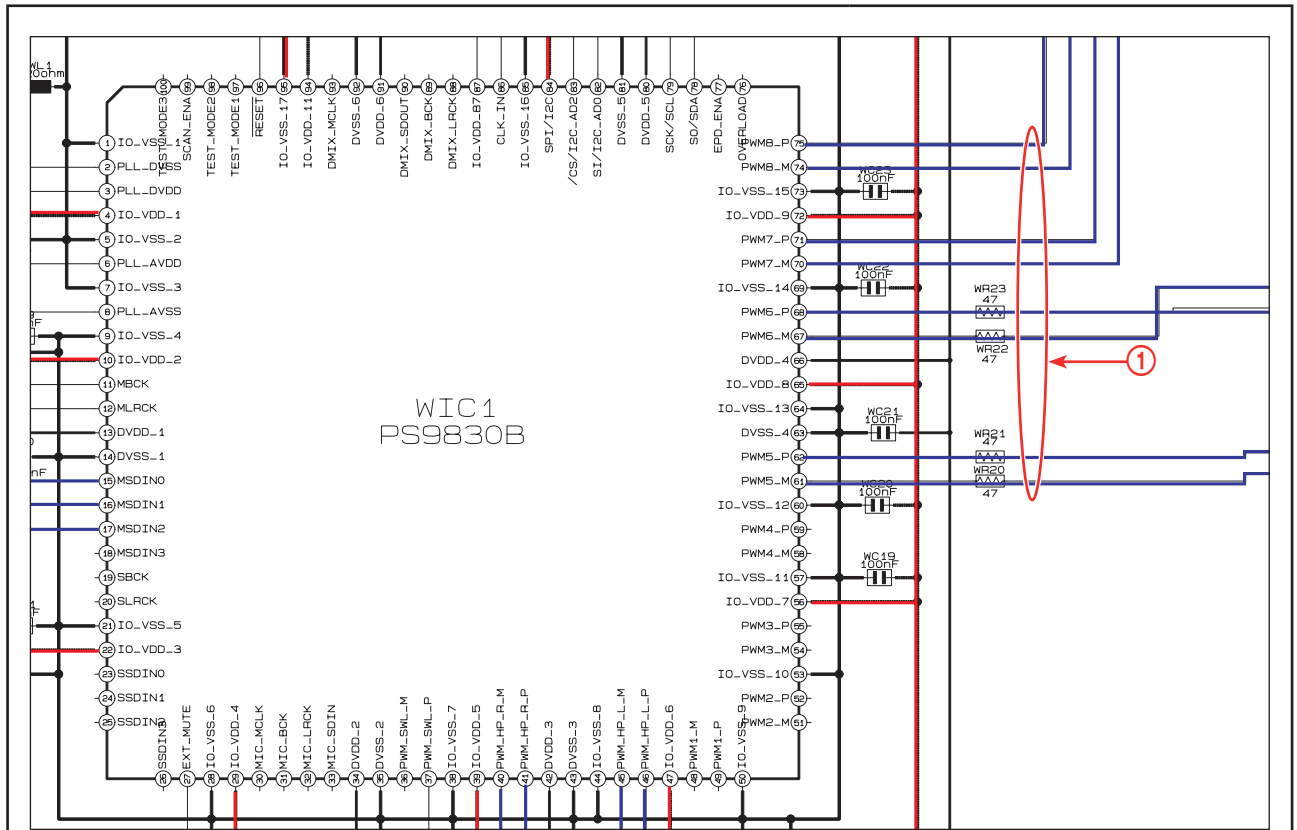
※ MAIN PCB Top, page 6-5



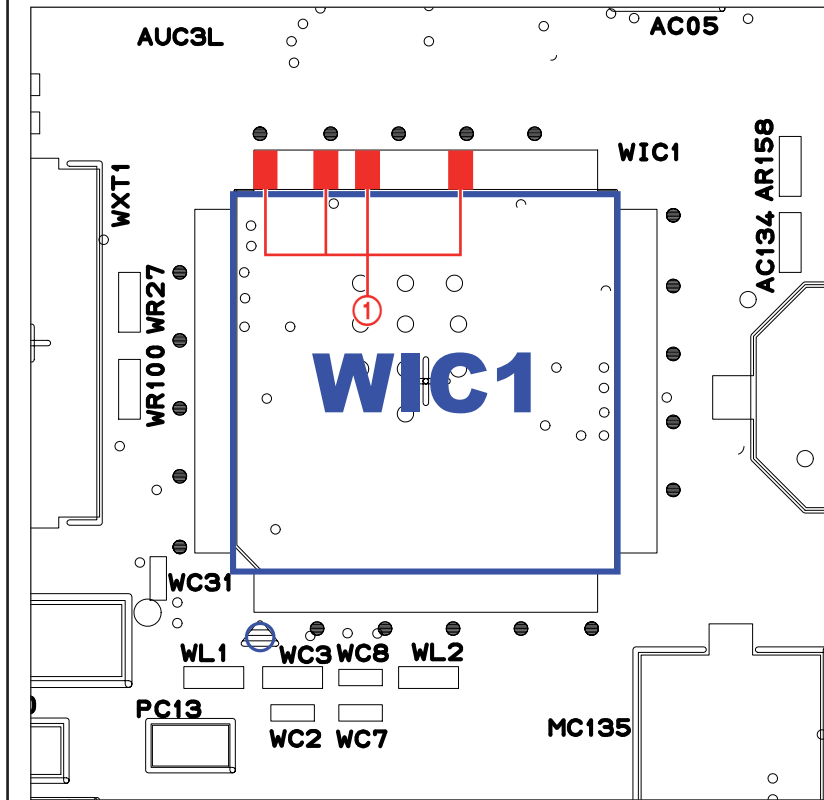
<Fig. 4-1>

4-1-2 No Output

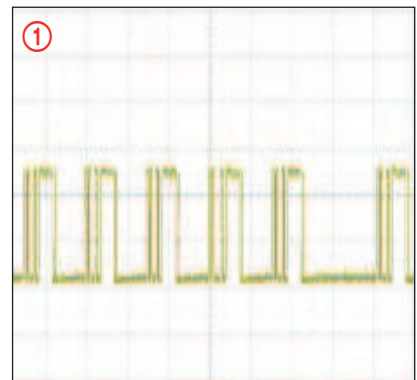




※ MAIN_AMP, page 7-6



※ MAIN PCB Top, page 6-5



<Fig. 4-2>

4-2 Measures to be taken when the Protection Circuit operates

4-2-1 SMPS Check Flow-SMPS Protection

Cases of the SMPS Protection.

1. If there is over current at the AMP IC (Speaker Wire Short)
2. If temperature of the AMP IC is over 150°C.
3. There is no power supply for AMP.

	Location	Pin No.	Protection		Remark
			Open	Short	
SMPS PCB	CON3	+12V (6, 9#)	X	X	
		D5.6V (1~4#)	X	X	
	CON2	+PVDD (about +38V) (1~4#)	X	○	C630 about +27.5V
		-PVDD (about -38V) (11~14#)	X	○	C630 about -27.5V
		+5V (7#)	X	X	
		-5V (8#)	X	X	

<Table 4-1>

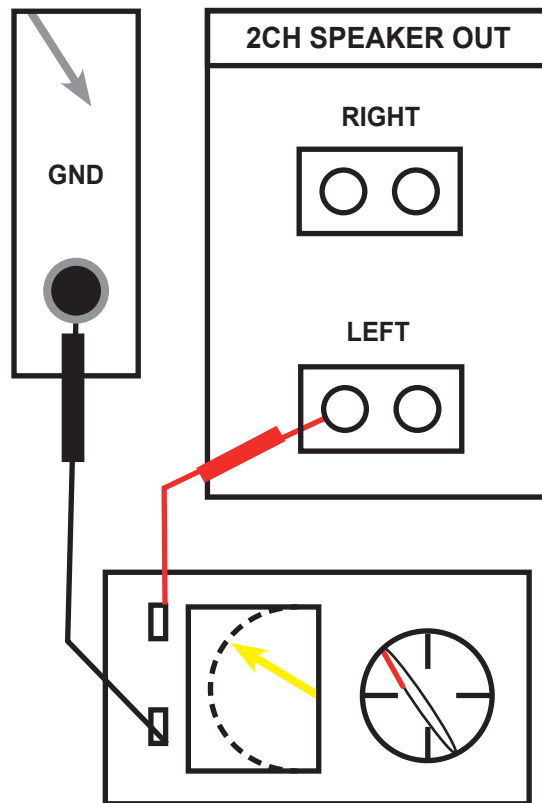
4-2-2 AMP Pre-Inspection relating to Power Protection

If you think, there are problems at the AMP PART, you can check the PCB without disassemble the set.
 (Caution!!: Do not connect the power cord during bellow check!)

Measurement Resistance using Tester	
- Approximately -	
F/R CH	2kΩ
SUBWOOFER	2kΩ

<Table 4-2>

If Measured Resistance is very different from above numbers. There is a Problem. → AMP PART Problem



4-3 MICOM, MPEG Initialization & Update

■ Micom Reset

During STANDBY mode, push the "STOP" button 5 Second. If VFD blinking, reset is finished.

■ Micom Update (Only for Flash Micom)

Method 1) MAIN PCB UTCN1 for update JIG.

To update Micom, it need Computer, Rom Writer, USB Cables.

Method 2) Insert USB Memory, and play.

"Update" will be displayed. Set will be power off when finish.

■ Micom & MPEG Version Check

1. Power On.
2. In VSB Function. "NO USB" status.
3. Push the number NEXT for 5 seconds, check the Micom version.
4. Push the number PREVIOUS for 5 seconds, check the MPEG version.

■ MPEG Update Method

1. Prepare Rom file at USB Memory.
2. Insert USB Memory, and play. "Update" will be displayed and glisten. Set will be power off → on.
3. The disc is automatically ejected. (If you use USB memory, detach USB memory.)

■ MPEG Reset

1. During "No Disc" displayed, push the stop button 5 seconds. After displayed "INITIALIZE" set will power off automatically.

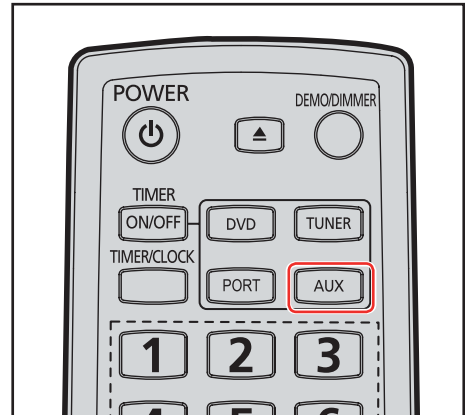
4-4 Buyer-Region Code Setting Method

4-4-1 The inserting method of Region Code after replacing the Main PBA

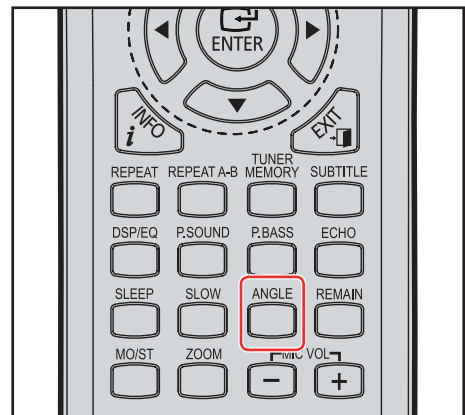
[Reference]

- When replacing the Main PBA and System Micom should be inserted the region code.
- The set is not working properly if you don't insert the region code.
- The region code is inserted by the remote control.

1. Press the "AUX" button on the remote control.



2. Press the "ANGLE" button on the remote control during 4~5 seconds.



3. After step (2), you can see "TEST - -" on the VFD.
Insert number "33", "33" to select Region Code.



4. After step (3), you can see "- -" on the VFD.
Insert the Region Code corresponding model with
"0 ~ 9" buttons on the remote control.



5. Turn the Power off.

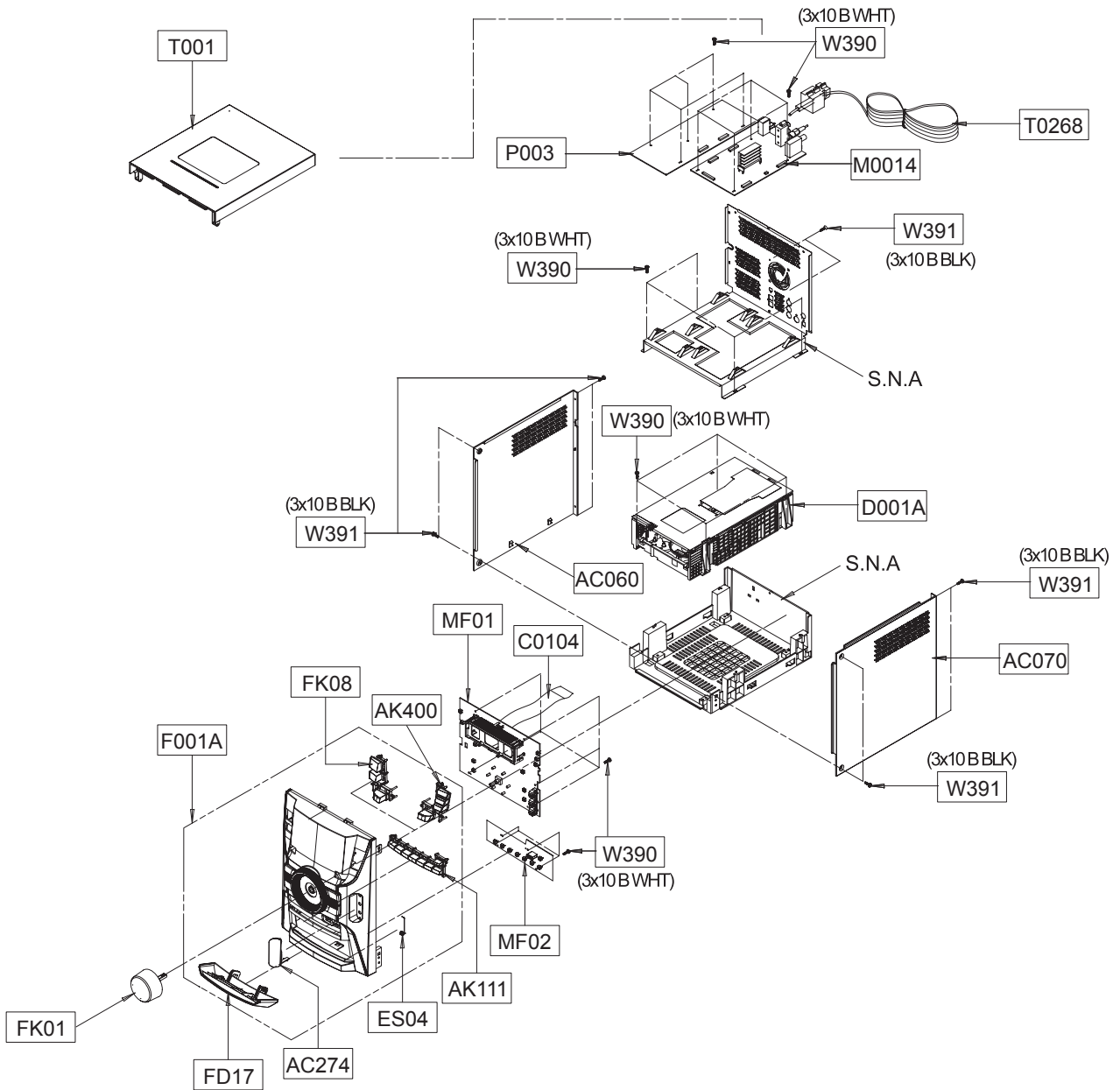
※ Option Table

Buyer	MX-C730 / MX-C630 Region Code	MX-C730D / MX-C630D Region Code	Remark
Africa, Pakistan	00	30	
Australia	01	31	
BRAZIL	02	32	
CANADA	03	33	
China (semi_mic)	04	34	
England	05	35	
Europe	06	36	
HACO	07	37	
India	08	38	
Indonesia, HONGKONG	09	39	
Israel	10	40	
Iran	11	41	
JAPAN	12	42	
KOR	13	43	
Latin American	14	44	
Mexico	15	45	
Newzealand	16	46	
Philippines	17	47	
Russia (full_mic)	18	48	
Russia (semi_mic)	19	49	
South Africa	20	50	
Taiwan	21	51	
USA	22	52	
Middle Asia	23	53	
Asia	24	54	
Singapore	25	55	

<Table 4-3>

5. Exploded View & Part List

5-1 Exploded View

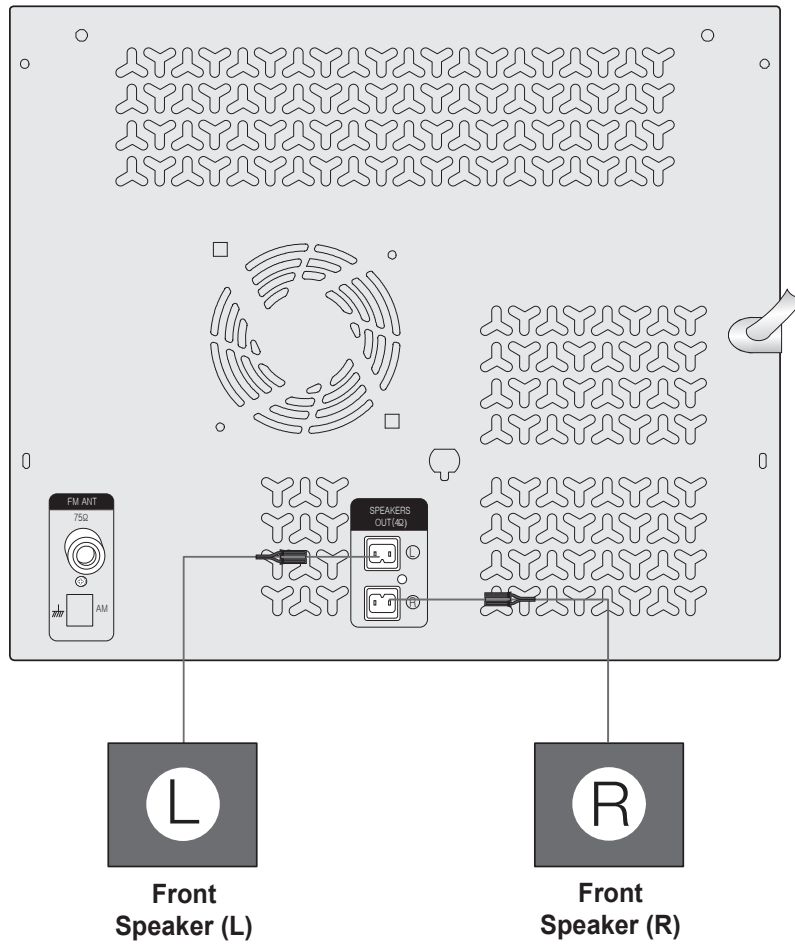


※ S.N.A: Service Not Available

■ Part List

Loc. No.	Part No.	Description;Specification	Qty.	SNA	Remark
AC060	AH64-05213A	CABINET-SIDE-L;MAX-DC630,HIPS,10,260,288	1	SA	
AC070	AH64-05216A	CABINET-SIDE-R;MAX-DC630,HIPS,10,260,288	1	SA	
AC274	AH63-02051A	COVER-MIC;MAX-DC630,ABS+TPU,3,15,30,BLK,	1	SA	
AK111	AH64-05215A	KNOB-DISC;MAX-DC630,ABS,20,41,250,BLK,MA	1	SA	
AK400	AH64-05223A	KNOB-TUNER;MAX-DC630,ABS,40,62,81,BLK,MA	1	SA	
C0104	3809-001221	CABLE-FLAT;30V,80C,210mm,30P,1.25mm,UL28	1	SA	
D001A	AH59-02288A	DECK-MECHA ASSY;BD-E1,MX-C630 / MX-C730,	1	SC	
ES04	AH61-03018A	SPRING ETC-DOOR;MX-DC630,SUS304,0.6,4.4,	1	SA	
F001A	AH96-00234A	ASSY COVER P-CABINET;MAX-DC630,ASSY,BLK,	1	SA	
FD17	AH64-05217A	DOOR-CD;MAX-DC630,ABS,2.5,30,61,165,BLK	1	SA	
FK01	AH64-05224B	KNOB-VOLUME;MAX-DC630,ABS,60,60,60,BLK,M	1	SA	
FK08	AH64-05221A	KNOB-POWER;MAX-DC630,ABS,40,62,81,BLK,MA	1	SA	
M0014	AH94-02411M	ASSY PCB MAIN;MAIN PCB ASSY,MX-C630D/EDC	1	SA	
MF01	AH82-00211B	A/S ASSY-FORNT VFD;MX-C730,ALL BUYER	1	SA	
MF02	AH82-00211A	A/S ASSY-FRONT KEY PCB;MX-C730,ALL BUYER	1	SA	
P003	AH44-00224A	DC VSS-HP;MX-C630,ORTP-559,AC/DC,60W,AC1	1	SA	
T001	AH64-05214A	CABINET-TOP;MAX-DC630,HIPS,36,261,230,BL	1	SA	
T0268	AC39-10019A	CBF-POWER CORD;AT,CP2,HOUIING(2P),250V,2.	1	SA	
W390	6003-000276	SCREW-TAPTTYPE;BH,+,-,B,M3,L10,ZPC(WHT),S	10	SA	
W391	6003-000275	SCREW-TAPTTYPE;BH,+,-,B,M3,L10,ZPC(BLK),SWR	18	SA	

5-2 Speaker System



■ Part List

Loc. No.	Part No.	Description;Specification	Qty.	SNA	Remark
Front Speaker	AH81-05740A	SPEAKER-SYSTEM; PS-C630D,SPK SYSTEM	2	SA	L & R

5-3 Electrical Part List

Loc. No.	Part No.	Description	Specification	Qty.	SNA	Remark
MF01A	AH94-02412C	ASSY PCB FRONT	FRONT PCB ASSY,MAX-C730,C	1	SNA	
AAR35	2001-000241	R-CARBON	1.5Kohm,5%,1/8W,AA,TP,1.8x3.2mm	2	SNA	
AC510	3708-001577	CONNECTOR-FPC/FFC/PIC	30P,1.25mm,STRAIGH	1	SA	
AH410	AH61-03019A	HOLDER-VFD	MAX-DC630,ABS,32,55,80,BLK,MA	1	SNA	
AHR1	2001-000273	R-CARBON	100Kohm,5%,1/8W,AA,TP,1.8x3.2mm	1	SA	
AHR54	2001-000258	R-CARBON	1.8Kohm,5%,1/8W,AA,TP,1.8x3.2mm	2	SA	
AS170	AH63-02112A	SHEET-VFD	MAX-DC630,PC,0.5,35,130,MAX-DC	1	SNA	
AS420	3406-001159	SWITCH-ROTARY	DC 5V,0.5mA,24detent/click	1	SNA	
C	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	1	SA	
C	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C	2401-000598	C-AL	1uF,20%,50V,GP,TP,4x7,5	2	SA	
C	2401-000970	C-AL	22uF,20%,50V,WT,TP,5x11,5	1	SNA	
C29	2401-000027	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	1	SA	
C527	2202-000797	C-CERAMIC,MLC-AXIAL	10NF,30%,16V,Y5S,TP,	2	SA	
C610	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5	9	SA	
CN2	3722-002313	JACK-USB	4P/1C,AU30U,BLK,STRAIGHT,A TYPE	1	SA	
D0254	0609-001333	MODULE REMOCON	CARTON,23.5mm,BOX	1	SA	
D1P130	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP	1	SA	
DQ9	0501-000010	TR-SMALL SIGNAL	2SC1008,NPN,800mW,TO-92,	7	SA	
DR17	2001-000027	R-CARBON	100ohm,5%,1/4W,AA,TP,2.4x6.4mm	1	SA	
DX55PD	0402-000151	DIODE-RECTIFIER	1N5392,100V,1.5A,DO-15,T	1	SA	
EC13	AH39-01107A	LEAD CONNECTOR	MX-C870,1007 #22,1P,85MM,	1	SA	
EC13	AH39-01109A	LEAD CONNECTOR	MX-C630,MONO WIRE,UL 1007	1	SA	
EC13	AH39-01110A	LEAD CONNECTOR	MX-C730,WIRE HANESS,UL100	1	SA	
EL02	0601-002886	LED	ROUND(FLAT),RED,3.0mm,639nm,3.8x3.9m	6	SA	
EMC10	2401-000487	C-AL	10uF,20%,50V,GP,TP,6.3x5mm,5	3	SNA	
EV01	AH07-00262A	VF DISPLAY	HNA-16MM61T,MX-C730,33.5*126.	1	SA	
FAC11	2401-000651	C-AL	2.2uF,20%,50V,GP,TP,4x7,5	2	SA	
FR31	2001-000793	R-CARBON	47ohm,5%,1/8W,AA,TP,1.8x3.2mm	2	SA	
HJ1	3722-001588	JACK-PHONE	7P,AG,BLK,STRAIGHT	3	SA	
HPL1R	2701-000179	INDUCTOR-AXIAL	33UH,10%,4298	2	SA	
JP21	3811-001868	WIRE-NO SHEATH CU	SnCuFe,52mm,GRY	23	SNA	
KD2	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	3	SA	
KSW5	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6x5,SPST	19	SNA	
MC8	2401-001508	C-AL	47uF,20%,16V,GP,TP,6.3x5,5	1	SA	
MF01	AH82-00211B	A/S ASSY-FORNT VFD	MX-C730,ALL BUYER	1	SA	
MF02	AH82-00211A	A/S ASSY-FRONT KEY PCB	MX-C730,ALL BUYER	1	SA	
PC9	2401-001355	C-AL	470uF,20%,10V,GP,TP,8x11.5mm,5mm	1	SA	
PPR2	2008-000003	R-FUSIBLE	0.22ohm,5%,1/2W,AA,TP,3.5x9.4m	1	SA	
PR33	2001-000702	R-CARBON	39Kohm,5%,1/8W,AA,TP,1.8x3.2mm	1	SA	
PRD32	2001-000515	R-CARBON	220ohm,5%,1/8W,AA,TP,1.8x3.2mm	1	SA	
PZD05	0403-001321	DIODE-ZENER	MTZJ6.8C,6.7-6.97V,500mW,DO-	1	SA	
R17	2001-000591	R-CARBON	3.3Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	SNA	
R1P109	2001-000362	R-CARBON	150ohm,5%,1/8W,AA,TP,1.8x3.2mm	6	SA	
R1P10B	2001-000290	R-CARBON	10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	9	SA	
R1P110	2001-000449	R-CARBON	2.2Kohm,5%,1/8W,AA,TP,1.8x3.2mm	2	SA	
R1SR14	2001-000003	R-CARBON	330ohm,5%,1/8W,AA,TP,1.8x3.2mm	2	SA	
R3A04	2001-000221	R-CARBON	1.2Kohm,5%,1/8W,AA,TP,1.8x3.2mm	2	SA	

Loc. No.	Part No.	Description	Specification	Qty.	SNA	Remark
R40	2001-001000	R-CARBON	82Kohm,5%,1/8W,AA,TP,1.8x3.2mm	1	SA	
R4N03	2001-000281	R-CARBON	100ohm,5%,1/8W,AA,TP,1.8x3.2mm	3	SA	
R5	2001-000890	R-CARBON	6.8Kohm,5%,1/8W,AA,TP,1.8x3.2mm	1	SA	
R660	2001-000786	R-CARBON	47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	2	SA	
R671	2001-000734	R-CARBON	4.7Kohm,5%,1/8W,AA,TP,1.8x3.2mm	1	SA	
RR270	2001-000028	R-CARBON(S)	100ohm,5%,1/2W,AA,TP,2.4x6.4	2	SA	
S.N.A	0202-001492	SOLDER-WIRE FLUX	HSE-02 LFM48 SR-34 S,-,	0.095	SNA	
SCC19	2202-000806	C-CERAMIC,MLC-AXIAL	0.22nF,10%,50V,Y5P,T	3	SA	
SCC20	2202-000173	C-CERAMIC,MLC-AXIAL	1nF,10%,50V,Y5P,TP,2	3	SA	
SCR2	2001-000995	R-CARBON	820ohm,5%,1/8W,AA,TP,1.8x3.2mm	2	SA	
SCR3	2001-000429	R-CARBON	1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	3	SA	
UR185	2001-000522	R-CARBON	22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	1	SA	
	0201-002249	ADHESIVE-UV	500CPS,BLK	0.022	SNA	
	0202-001768	SOLDER-BAR	HSE-16,S60S-20,D3,SN/0.5CU/0.	9.01	SNA	
	0204-002514	THINNER	TS4500,OXIGEN,NO,13.15KG,14KG/BO	3.465	SNA	
	0204-002606	FLUX	LF-715K,OXIGEN,NO,16000L,14%,16kg,G	1.846	SNA	
	0403-000532	DIODE-ZENER	1N4740A,5%,1000mW,DO-41,TP	1	SA	
	1003-002194	IC-VFD	PT6324-QL,QFP,52P,14.0x14.0mm,-40	1	SA	
	AH41-01286A	PCB-FRONT	MAX-DC630,KB,1,T1.6,168*247,PC	1	SNA	
	AH97-05623A	ASSY AUTO-FRONT	MAX-C730,1,AH94-02412C	1	SNA	
	AH97-05625A	ASSY MANUAL INSERT	FRONT PCB ASSY,AH94-0	1	SNA	
	AH91-00103B	ASSY SHIELD	MX-C730,EDC	1	SNA	
T0268	AC39-10019A	CBF-POWER CORD	AT,CP2,HOUING(2P),250V,2.	1	SA	
FIL	0203-000007	TAPE-FILAMENT	T0.15,L55M,TRP	0.1	SNA	
M0014	AH94-02411M	ASSY PCB MAIN	MAIN PCB ASSY,MX-C630D/EDC	1	SA	
AAC1	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	10	SNA	
AAC1	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	13	SNA	
AAC14	2203-000888	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	1	SNA	
AAR11	2007-000312	R-CHIP	10ohm,5%,1/4W,TP,3216	1	SA	
AAR11	2007-000312	R-CHIP	10ohm,5%,1/4W,TP,3216	4	SA	
AAR39	2007-000123	R-CHIP	1.5Kohm,5%,1/10W,TP,1608	4	SA	
AC1	2203-000125	C-CER,CHIP	1.2nF,10%,50V,X7R,TP,1608,-	2	SA	
AC124	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	2	SNA	
AC139	2203-000491	C-CER,CHIP	2.2nF,10%,50V,X7R,1608	6	SNA	
AC28	2203-001607	C-CER,CHIP	0.22nF,5%,50V,NP0,1608	1	SNA	
AC510	3708-001577	CONNECTOR-FPC/FFC/PIC	30P,1.25mm,STRAIGH	1	SA	
AD1	0407-000116	DIODE-SWITCHING	KDS181,DAP202K,SDS2836,8	1	SA	
AD480	2203-001386	C-CER,CHIP	100nF,10%,100V,X7R,TP,3216,3.	18	SNA	
AD480	2203-006333	C-CER,CHIP	1000nF,20%,16V,X5R,TP,3216	4	SNA	
AD480	2203-006336	C-CER,CHIP	1000nF,10%,25V,X5R,3216	10	SNA	
AD480	2203-006698	C-CER,CHIP	1000nF,10%,25V,X7R,1608	2	SA	
AD480	2203-002494	C-CER,CHIP	470nF,10%,16V,X7R,2012	1	SNA	
AD480	2203-006391	C-CER,CHIP	1000nF,10%,10V,X7R,TP,1608	1	SNA	
AD480	2203-007270	C-CER,CHIP	1000nF,10%,10V,X5R,TP,1608	7	SNA	
AH060	AH62-00219B	HEAT SINK-MAIN	MAX-DC630,AL,2,15,45,WHIT	1	SNA	
AHR40	2007-000088	R-CHIP	7.5Kohm,5%,1/10W,TP,1608	1	SNA	

Loc. No.	Part No.	Description	Specification	Qty.	SNA	Remark
AHR40	2007-000088	R-CHIP	7.5Kohm,5%,1/10W,TP,1608	3	SNA	
AQ7	0504-000128	TR-DIGITAL	FJV3103R,NPN,200mW,22K/22Kohm	3	SA	
AQ8	0504-000156	TR-DIGITAL	KSR2103,PNP,200MW,22K/22K,SOT	1	SA	
AR02	2007-000125	R-CHIP	3.9Kohm,5%,1/10W,TP,1608	2	SA	
AR108	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	13	SA	
AR150	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	27	SA	
AR158	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SA	
AR164	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	2	SNA	
AR174	2007-000129	R-CHIP	27Kohm,5%,1/10W,TP,1608	5	SA	
AR28	2007-000683	R-CHIP	3.3Kohm,1%,1/10W,TP,1608	1	SA	
AR30	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	18	SNA	
AR42	2007-000939	R-CHIP	47Kohm,1%,1/10W,TP,1608	2	SNA	
AR61	2007-000869	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	SA	
ARR2	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	12	SA	
ARR2	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	2	SA	
AVC08	2203-002398	C-CER,CHIP	22nF,10%,50V,X7R,1608	1	SNA	
C	2401-004106	C-AL	680uF,20%,50V,-,BK,12.5 x 35,5	2	SNA	
C102	2203-006158	C-CER,CHIP	100nF,10%,16V,X7R,1005	23	SA	
C1025	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.4	2	SNA	
C125	2203-006361	C-CER,CHIP	10000nF,10%,10V,X5R,TP,2012	21	SA	
C134	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	7	SA	
C212	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	15	SNA	
C23	2203-006890	C-CER,CHIP	10000nF,20%,6.3V,X5R,1608	26	SNA	
C258	2203-000236	C-CER,CHIP	0.1nF,5%,50V,C0G,1608	16	SNA	
C272	2203-005627	C-CER,CHIP	470nF,10%,10V,X5R,1608	5	SA	
C3	2203-000384	C-CER,CHIP	0.015nF,5%,50V,C0G,1608	5	SNA	
C3502	2203-001222	C-CER,CHIP	0.82nF,10%,50V,X7R,1608	2	SNA	
C637	2203-001656	C-CER,CHIP	0.47nF,5%,50V,NPO,1608	6	SNA	
C776	3716-001242	TERMINAL-BLOCK	WIRE TYPE,4P,4.5mm,0V,0A	1	SA	
CA5602	2401-003378	C-AL	1000uF,20%,10.000V,WT,10x12.5,5mm	2	SA	
CER02	2007-000071	R-CHIP	22ohm,5%,1/10W,TP,1608	2	SA	
CER04	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	13	SA	
CIS3	AH40-00159A	TUNER	TAF-7F05,MAX-DG35,FM, RDS,75 ohm,C	1	SA	
CN1	3708-000491	CONNECTOR-FPC/FFC/PIC	23P,1mm,STRAIGHT,S	1	SA	
CN1804	3711-003411	HEADER-BOARD TO CABLE	BOX,5P,1R,2mm,STRA	1	SNA	
CN9	3708-001755	CONNECTOR-FPC/FFC/PIC	15P,1mm,STRAIGHT,S	1	SNA	
D001A	AH59-02288A	DECK-MECHA ASSY	BD-E1,MX-C630 / MX-C730,	1	SC	
D1	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	9	SA	
DR01A	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	2	SA	
DR1	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SA	
DR10	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	19	SA	
DR10	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	SA	
DR32	3301-000314	BEAD-SMD	120ohm,1.6x0.8x0.8mm,-,-,-	2	SNA	
DS01A	0401-001166	DIODE-SWITCHING	BAV20WS-V,150V,250mA,SOD	2	SA	
DU501	1203-001824	IC-VOL. DETECTOR	7042,SOT-89,3P,PLASTIC,	1	SA	
ER19	2007-002899	R-CHIP	10ohm,1%,1/10W,TP,1608	9	SA	
FAR22	2007-000082	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	11	SA	
FAR22	2007-000082	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	2	SA	

Loc. No.	Part No.	Description	Specification	Qty.	SNA	Remark
HE4	2203-006474	C-CER,CHIP	2200nF,20%,6.3V,X5R,2012	3	SA	
HIC1	1201-001285	IC-OP AMP	4556,SOP,8P,150MIL,+/-18V,100d	1	SA	
HRP2	2011-001344	R-NETWORK	100ohm,5%,1/16W,L,CHIP,8P,TP,2	12	SA	
IC012	1203-006057	IC-POSI.ADJUST REG.	KIA1085FP00,D2PAK,3P	1	SA	
IC112	1103-001410	IC-EEPROM	S-24CS08AFJ-TB-1GE,8Kbit,1Kx8,	2	SNA	
IC520	0903-001565	IC-MICROCONTROLLER	LC87F5NC8AVU,QFP,100P	1	SNA	
IDR23	2007-000116	R-CHIP	120ohm,5%,1/10W,TP,1608	2	SNA	
J914	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	1	SNA	
JC10	2203-006324	C-CER,CHIP	2200nF,10%,10V,X5R,1608	2	SA	
JC10	2203-006324	C-CER,CHIP	2200nF,10%,10V,X5R,1608	1	SA	
JC31	2203-000715	C-CER,CHIP	3.3nF,10%,50V,X7R,1608	4	SNA	
JP19	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	3	SA	
JP6	AH37-00005A	JACK-RCA	1P,S-440B,YELLOW,-,SHIELD PLATE	1	SA	
KAC5	2203-001126	C-CER,CHIP	0.68nF,10%,50V,X7R,1608	3	SNA	
KAR11	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	7	SNA	
KAR11	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	1	SNA	
KAR13	2007-000060	R-CHIP	100Kohm,1%,1/10W,TP,1608	4	SNA	
KAR21	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	SA	
KAR21	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	SA	
KAR7	2007-000120	R-CHIP	680ohm,5%,1/10W,TP,1608	5	SA	
KAR9	2007-000093	R-CHIP	20Kohm,5%,1/10W,TP,1608	2	SA	
KCON2	3708-001439	CONNECTOR-FPC/FFC/PIC	4P,1mm,STRAIGHT,SN	1	SNA	
KOP1	1201-000163	IC-OP AMP	4560,SOP,8P,173MIL,DUAL,100V/m	2	SA	
KQ6	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	4	SA	
KQ6	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	1	SA	
KR7	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	1	SA	
L607	2703-001254	INDUCTOR-SMD	1.8uH,10%,2012	4	SA	
MC68	2402-001096	C-AL,SMD	220UF,20%,16V,GP,TP,6.6X6.6X7.7	3	SA	
MCW10	3708-000193	CONNECTOR-FPC/FFC/PIC	17P,1.25mm,STRAIGH	1	SA	
MD1	0404-001089	DIODE-SCHOTTKY	RB551V-30,20V,500MA,SOD-3	2	SA	
MIC1	1003-001978	IC-MOTOR DRIVER	AM5766,HSOP28H,28P,17.9x	1	SA	
MIC2	1105-001573	IC-DRAM	K4S281632,-,128Mbit,8Mx16Bit,TSO	1	SA	
MPD8	0402-000156	DIODE-RECTIFIER	1N5402,200V,3A,DO-201AD	3	SA	
MPIC1	AH14-10003E	IC	KIA7812PI,,TO-220	1	SA	
MR103	2007-000308	R-CHIP	10ohm,5%,1/8W,TP,2012	4	SA	
MR112	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	6	SNA	
MR122	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	8	SNA	
MR16	2007-000098	R-CHIP	56Kohm,5%,1/10W,TP,1608	3	SA	
MR166	2007-000119	R-CHIP	560ohm,5%,1/10W,TP,1608	1	SA	
MR19	2007-000087	R-CHIP	6.8Kohm,5%,1/10W,TP,1608	3	SA	
MR19	2007-000087	R-CHIP	6.8Kohm,5%,1/10W,TP,1608	2	SA	
MR2	2007-000130	R-CHIP	39Kohm,5%,1/10W,TP,1608	3	SA	
MR2	2007-000130	R-CHIP	39Kohm,5%,1/10W,TP,1608	1	SA	
MR312	2007-000450	R-CHIP	180ohm,5%,1/10W,TP,1608	1	SA	
MR34	2007-000118	R-CHIP	390ohm,5%,1/10W,TP,1608	3	SA	
MR34	2007-000118	R-CHIP	390ohm,5%,1/10W,TP,1608	1	SA	
MR9	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	4	SA	
MROP1	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	25	SA	
MROP1	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	2	SA	

Loc. No.	Part No.	Description	Specification	Qty.	SNA	Remark
MX1	2801-004284	CRYSTAL-SMD	27MHz,10ppm,28-AAN,20pF,30oh	1	SA	
P003	AH44-00224A	DC VSS-HP	MX-C630,ORTP-559,AC/DC,60W,AC1	1	SA	
P803T	1404-001483	THERMISTOR-PTC	470ohm,50%,32V,TP	2	SA	
PC69	2203-006818	C-CER,CHIP	47000nF,20%,6.3V,X5R,3216	2	SA	
PCN1	3710-001990	CONNECTOR-SOCKET	15P,2R,1.25mm,STRAIGHT,	2	SA	
PIC2	1203-002185	IC-POSI.FIXED REG.	3RD13,TO-220,4P,402MI	1	SA	
PPC2	2203-005148	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	57	SNA	
PPC2	2203-005148	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	1	SNA	
PPD1	0402-000309	DIODE-RECTIFIER	1SR154-400,400V,1A,SOD-1	2	SA	
PR4	2007-000052	R-CHIP	10Kohm,1%,1/10W,TP,1608	14	SA	
PR6	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	9	SNA	
Q1040	0501-000457	TR-SMALL SIGNAL	MMBT2222A/KST2222A,NPN,3	1	SA	
Q4	0501-000632	TR-SMALL SIGNAL	2SB1197K,PNP,200mW,SOT-2	2	SA	
R1	2007-002425	R-CHIP	1ohm,5%,1/10W,TP,1608	8	SNA	
R104	2007-000148	R-CHIP	10Kohm,5%,1/16W,TP,1005	1	SA	
R105	2007-000138	R-CHIP	100ohm,5%,1/16W,TP,1005	2	SA	
R15	2007-000134	R-CHIP	33Kohm,5%,1/10W,TP,1608	1	SNA	
R1P151	2007-000121	R-CHIP	820ohm,5%,1/10W,TP,1608	5	SA	
R1S36	2007-000491	R-CHIP	2.2Kohm,1%,1/10W,TP,1608	2	SA	
R320	2007-000458	R-CHIP	18Kohm,5%,1/10W,TP,1608	1	SA	
R329	2007-000081	R-CHIP	2.7Kohm,5%,1/10W,TP,1608	4	SA	
R331	2007-000079	R-CHIP	1.8Kohm,5%,1/10W,TP,1608	12	SA	
R419	2007-000882	R-CHIP	4.7ohm,5%,1/10W,TP,1608	2	SA	
R505	2007-000496	R-CHIP	2.2Kohm,5%,1/4W,TP,3216	2	SA	
R512	2007-000107	R-CHIP	470Kohm,5%,1/10W,TP,1608	1	SNA	
R807	2007-001134	R-CHIP	68ohm,5%,1/10W,TP,1608	1	SA	
R809	2007-000475	R-CHIP	1Mohm,1%,1/10W,TP,1608	1	SA	
R830	2007-000101	R-CHIP	82Kohm,5%,1/10W,TP,1608	2	SA	
R893B	2007-000122	R-CHIP	1.2Kohm,5%,1/10W,TP,1608	3	SA	
RC11	2203-005015	C-CER,CHIP	150nF,+80-20%,16V,Y5V,1608	1	SNA	
RC34	2203-000280	C-CER,CHIP	0.01nF,0.5pF,50V,C0G,1608	5	SA	
RIC1	1201-001842	IC-OP AMP	TL3472CD,SO,TP,8P,-,DUAL,-,PAL	1	SA	
RIC3	1003-001508	IC-MOTOR DRIVER	FAN8082DTF,SOP,8P,200MIL	2	SA	
RR2	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608	4	SA	
S.N.A	0202-001459	SOLDER-CREAM	S3X58-M405,D20~38um,96.5Sn/	0.806	SNA	
S.N.A	0202-001492	SOLDER-WIRE FLUX	HSE-02 LFM48 SR-34 S,-,	0.084	SNA	
S1H0220	2402-000120	C-AL,SMD	10UF,20%,50V,GP,TP,6.6X6.6X5.4M	1	SA	
T0087	1203-000293	IC-POSI.FIXED REG.	7808,TO-220,3P,PLASTI	1	SA	
T0568	3301-001404	BEAD-SMD	30ohm,2012,TP,15.9OHM/30MHz	13	SA	
T0568	3301-001404	BEAD-SMD	30ohm,2012,TP,15.9OHM/30MHz	1	SA	
U1502	1203-001212	IC-VOL. DETECTOR	7029,SOT-89,3P,-,PLASTI	1	SA	
UR16	2007-000552	R-CHIP	20ohm,5%,1/10W,TP,1608	4	SA	
UR28	2007-001026	R-CHIP	560Kohm,5%,1/10W,TP,1608	1	SA	
UR53	2007-000305	R-CHIP	10Mohm,5%,1/10W,TP,1608	1	SA	
UX2	2802-001174	RESONATOR-CERAMIC	10MHZ,0.5%,BK,8X3.5X3M	1	SA	
VC4	2203-000357	C-CER,CHIP	0.15nF,5%,50V,C0G,1608	8	SNA	
W272	6003-001464	SCREW-TAPTYPE	BH,+ ,B,M3,L10,ZPC(WHT)	2	SA	
WC31	2305-000407	C-FILM,LEAD-PEF	470nF,5%,100V,TP,10.5x6x	2	SA	

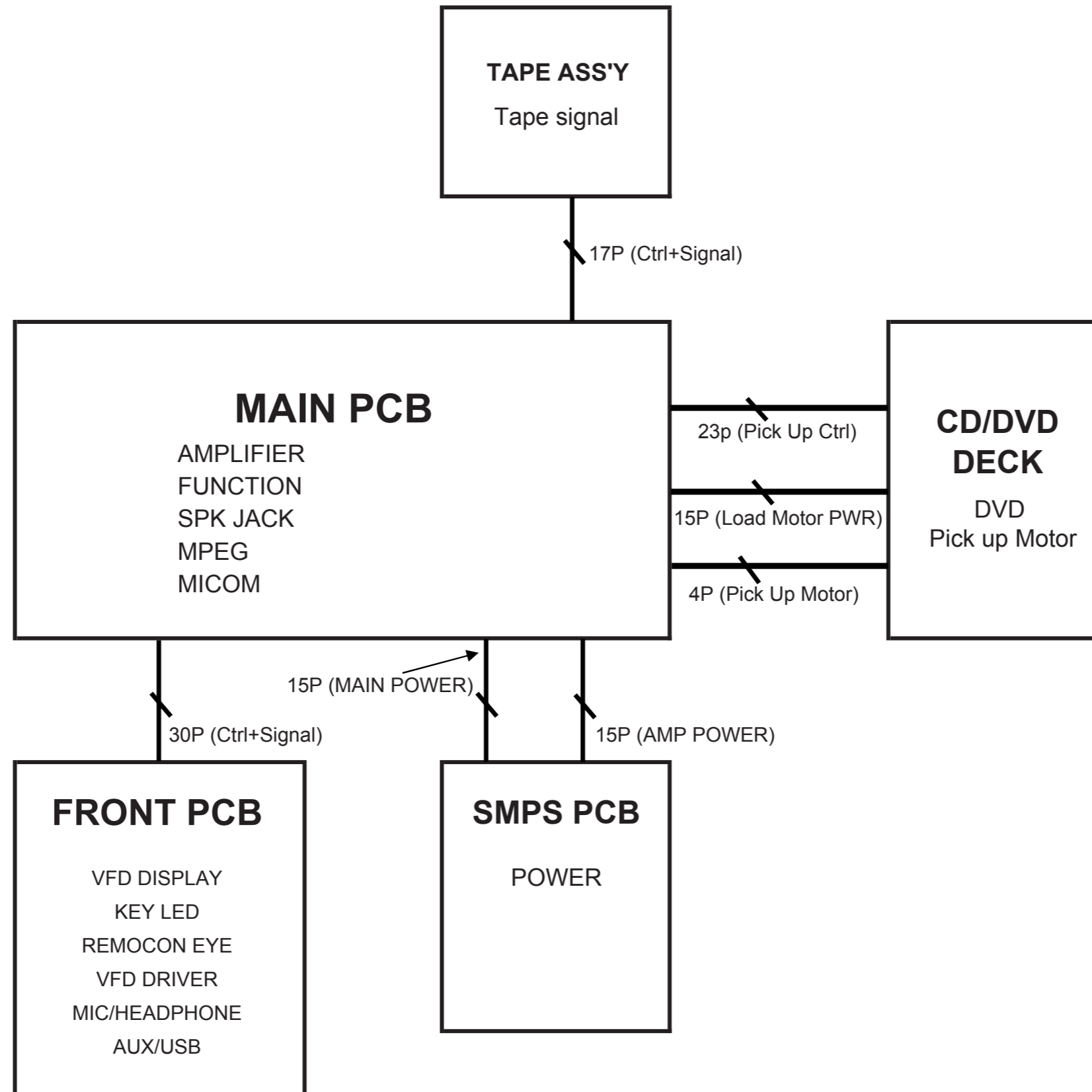
Loc. No.	Part No.	Description	Specification	Qty.	SNA	Remark
X202	2801-004371	CRYSTAL-SMD	12.288MHz,50ppm,SX-1,18pF,50	1	SNA	
X-TAL1	2801-001394	CRYSTAL-UNIT	.032768MHz,20ppm,28-AAAY,12.	1	SA	
ZC14	2203-000626	C-CER,CHIP	0.022nF,5%,50V,C0G,1608	4	SNA	
ZC35	2203-000681	C-CER,CHIP	0.027nF,5%,50V,C0G,1608	2	SNA	
ZIC3	1107-001709	IC-FLASH MEMORY	MX25L1605DM2I-12G,16Mbit	1	SNA	
ZPR3	2007-000106	R-CHIP	220Kohm,5%,1/10W,TP,1608	1	SA	
ZR10	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	4	SA	
ZR24	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	3	SA	
ZR45	2007-000329	R-CHIP	11Kohm,5%,1/10W,TP,1608	1	SA	
ZRN10	2011-001261	R-NETWORK	33ohm,5%,1/16W,L,CHIP,8P,TP,2.	7	SA	
ZVL3	3301-001495	BEAD-SMD	120ohm,2012,2500mA,TP,115ohm/10	6	SA	
ZVR8	2007-000824	R-CHIP	390ohm,5%,1/4W,TP,3216	6	SA	
	0202-001768	SOLDER-BAR	HSE-16,S60S-20,D3,SN/0.5CU/0.	3.09	SNA	
	0204-002514	THINNER	TS4500,OXIGEN,NO,13.15KG,14KG/BO	1.424	SNA	
	0204-002606	FLUX	LF-715K,OXIGEN,NO,16000L,14%,16kg,G	0.534	SNA	
	0205-001278	GREASE	T4110	0.135	SNA	
	0403-001164	DIODE-ZENER	MMSZ5232B,5.32-5.88V,500MW,S	2	SA	
	0406-001128	DIODE-TVS	MLVS-0603-E08,50V	5	SA	
	0501-000150	TR-SMALL SIGNAL	2SA1037,PNP,200mW,SOT-23	1	SA	
	0505-002582	FET-SILICON	IRFI4019HG-117P,N,150,8.7,0.	2	SA	
	1003-002268	IC-GATE DRIVER	IRS2053MTRPBF,MLPQ,48P,7X	1	SA	
	1204-002968	IC-MODULATOR	PS9830B,TQFP,100P,14x14mm,P	1	SA	
	1204-003124	IC-PAL/NTSC DECODER	ES8396SCD,LQFP,216P,	1	SA	
	2007-000253	R-CHIP	1.5ohm,5%,1/4W,TP,3216	2	SA	
	2007-000504	R-CHIP	2.2ohm,5%,1/4W,TP,3216	2	SA	
	2007-001199	R-CHIP	820ohm,1%,1/10W,TP,1608	2	SA	
	2007-007065	R-CHIP	10ohm,5%,1W,TP,6432	5	SA	
	2011-001345	R-NETWORK	10Kohm,5%,1/16W,L,CHIP,8P,TP,2	1	SA	
	2301-001760	C-FILM,MPEF	100nF,10%,250V,TP,B5xH13.5x1	2	SNA	
	3722-002224	JACK-PIN	3P,GRN/BLU/RED,ANGLE	1	SNA	
	AH27-00069A	COIL FILTER	8019P-02-220L,22uH,0.1ohm MA	2	SA	
	AH27-00082A	COIL FILTER-TOROID	C630,15uH,5.5Mohm,12*	2	SA	
	AH41-01287C	PCB MAIN	MX-C730,FR-4,2,T1.6,197*235,2,P	1	SNA	
	AH62-00231A	HEAT SINK-ASSY	MAX-DC630,al,2,32,83,wht,	1	SNA	
	AH97-04848A	ASSY AUTO	MAIN PCB ASSY,MX-C630D/EDC,DVD	1	SNA	
	AH97-04850A	ASSY MANUAL INSERT	AH94-02411M	1	SNA	
	AH97-05313E	ASSY MICOM-MICOM IC	HMC630DWWM-1004.0,20	1	SNA	
	AH97-05313G	ASSY MICOM-NOR FLASH	MX-C730D,MX25L1605D	1	SNA	
	AH92-03360L	ASSY LABEL	MX-C630	1	SNA	
CCM1	AH68-01929G	LABEL RATING	HT-A100,XTL,SILVER PET,48,3	1	SNA	
	AH68-02192J	LABEL-POP	MX-C630D,all,RAINBOW,0.18,fron	1	SNA	
	AH68-02192K	LABEL-POP	MX-C630/C630D,all,RAINBOW,0.18	1	SNA	
	AH92-03369J	ASSY BOX	MX-C630	1	SNA	
	AH68-02274E	LABEL-STICKER	MX-C630/XAX,SEM,ART PAPER,	2	SNA	
	AH69-02900D	BOX-SET	365,594,514	2	SNA	
	AH68-01981M	LABEL-BOX	ALL MODEL,ALL BUYER,heat sensi	1	SNA	

Loc. No.	Part No.	Description	Specification	Qty.	SNA	Remark
	AH92-03370J	ASSY P/MATERIAL	MX-C630	1	SNA	
PE-BAG	6902-000068	BAG PE	HDPE/NITRON/HDPE,T0.02/0.5/0.02,W	1	SNA	
	AH69-02890A	CUSHION-LEFT	mm-c630,25,363,512,90	1	SNA	
	AH69-02891A	CUSHION-RIGHT	mm-c630,25,363,512,90	1	SNA	
SP01A	AH96-00255D	ASSY SPEAKER P	4OHM,PS-C630D,2.0CH,200W,	1	SNA	
H001	AH81-05740A	SPEAKER	PS-C630D,SPK SYSTEM	2	SA	
F001	AH64-05254A	PANEL FRONT	PS-C530,ABS	4	SNA	
	AH64-05256A	DECORATION	PS-C530,ABS	4	SNA	
	AH81-05675A	SPEAKER-CABINET	PS-C530,CABINET	4	SNA	
	AH81-05676A	SPEAKER-T/W UNIT	PS-C530,T/W UNIT	4	SNA	
	AH81-05678B	SPEAKER-CUSHION	PS-C530,CUSHION_TOP	4	SNA	
	AH81-05678C	SPEAKER-CUSHION	PS-C530,CUSHION_BOTTOM	4	SNA	
H001	AH81-05706A	SPEAKER	PS-C630D,WOOFER UINT	4	SNA	
S.N.A	0203-001100	TAPE-OPP MASKING	OPP/W75/CLR,T0.075,W75,	1.5	SNA	
	ACCE1	ASSY ACCESSORY	MX-C730,XFA	1	SNA	
ACCE4	AH96-00475E	ASSY ACCESSORY-MANUAL	MX-C730	1	SNA	
T0685	4301-000116	BATTERY-ALKALINE	1.5V,R03,10.5x44.5mm,AA	2	SNA	
CARD	6801-001634	CARD-REGISTRATION	Russia,XER,NWT,Russia,	1	SNA	
PE I/B	6902-000385	BAG PE	LDPE,T0.03,W250,L350,TRP,8,1PE MA	1	SNA	
C-AUDI	AH39-40001V	CABLE-AUDIO CABLE	-, -,1P-1P,3000mm,-,-,-	1	SA	
M0025	AH42-00021A	ANT FM T	T18011F-1,75 ohm,1800mm	1	SA	
	AH68-02252P	MANUAL USERS	MX-C630D,XER,RUS/URK/KAZ,MO	1	SNA	
	AH68-50254B	LABEL-SERIAL	T0.1,L10,W42,SME/SEHZ	1	SNA	
	BN68-01925G	MANUAL FLYER-WARRANTY CARD	comm,Samsung,	1	SNA	
	AH68-02252V	MANUAL USERS	MX-C630D,nwt,ENG/URK/KAZ,MO	1	SNA	
REMO2	AH59-02147V	REMOCON	10D-COMPO MINI DVD MX-C830D-NT,S	1	SA	

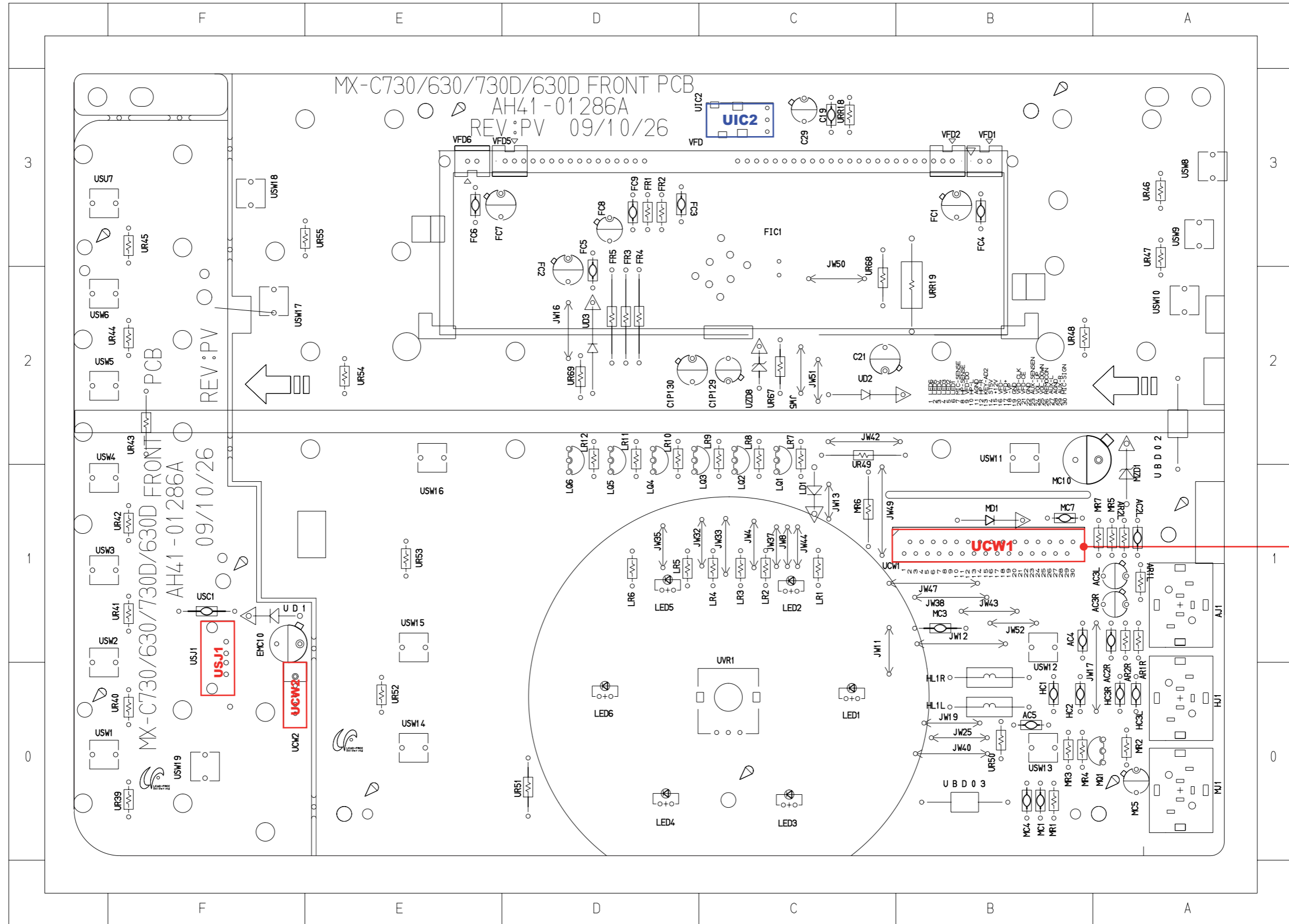
MEMO

6. PCB Diagram

6-1 Wiring Diagram



6-2 FRONT PCB Top



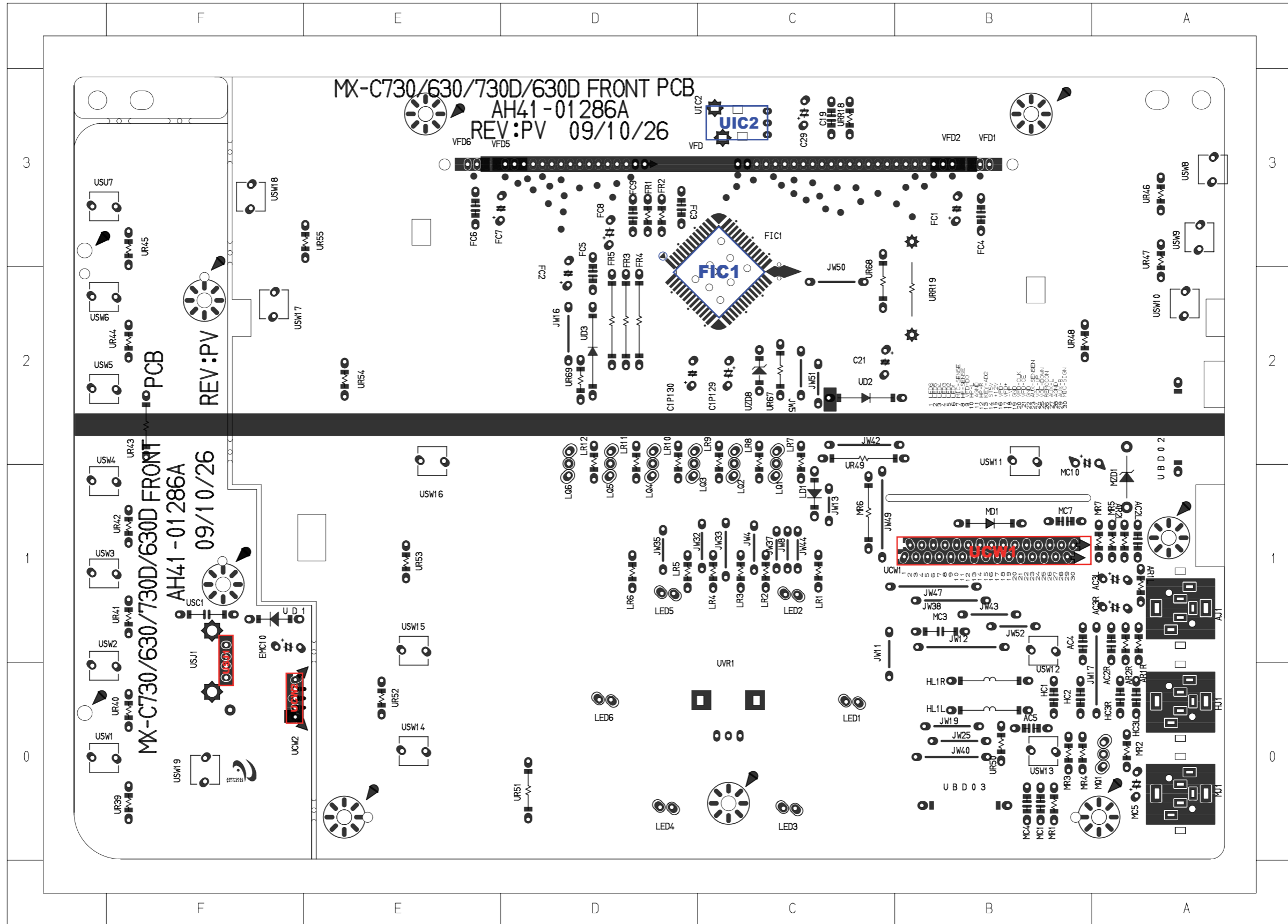
6-2-1 Pin Connection

① UCW1

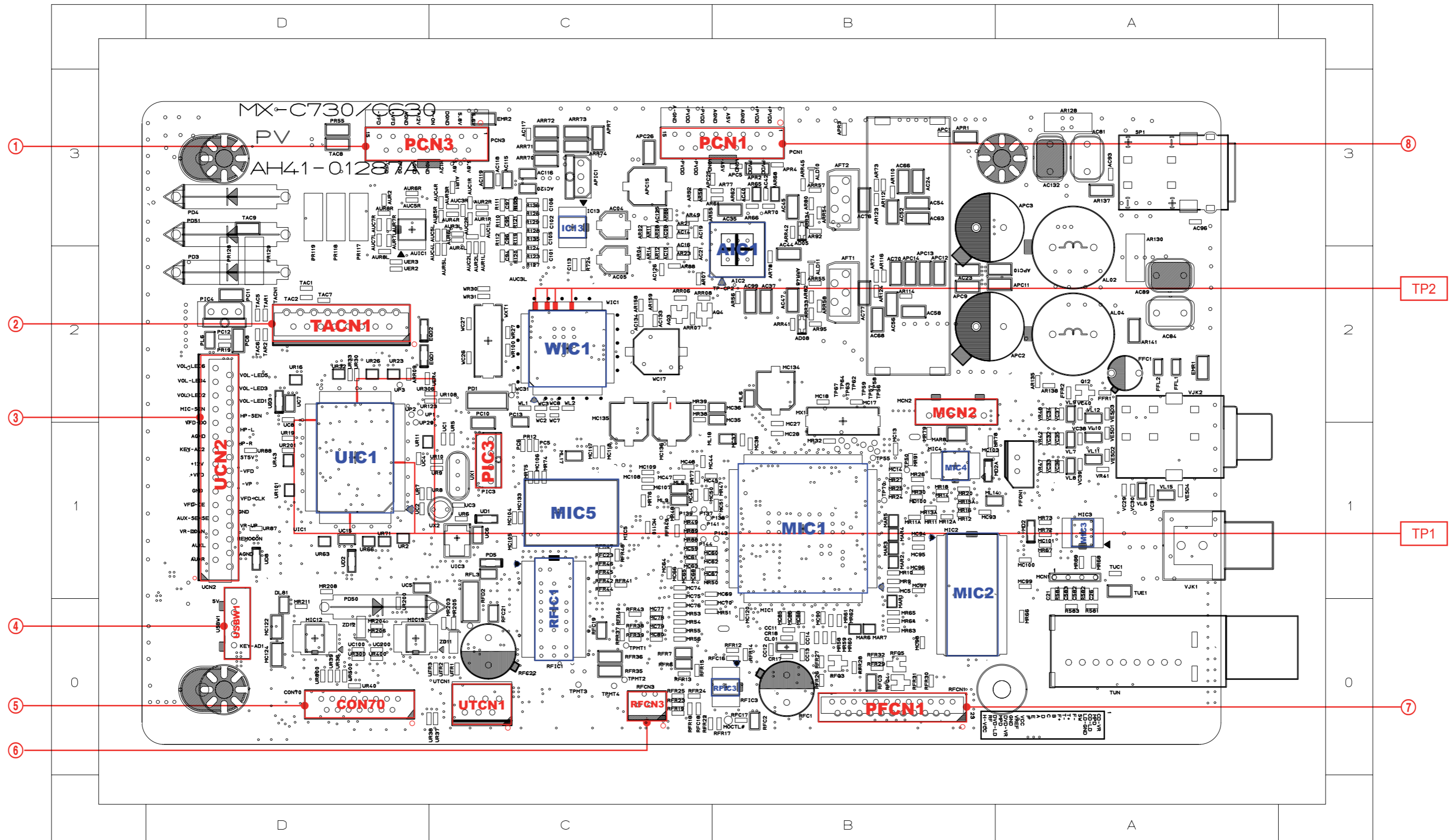
To FRONT PCB

Pin No.	Signal
1	VOL_LED6
2	VOL_LED5
3	VOL_LED4
4	VOL_LED3
5	VOL_LED2
6	VOL_LED1
7	MIC-SEN
8	HP-SEN
9	VFD_DO
10	HP-L
11	AGMD
12	HP-R
13	KEY_AD2
14	ST5V
15	+12V
16	-VFD
17	+VFD
18	-VP
19	GND
20	VFD_CLK
21	VFD_CE
22	GND
23	AUX_SEN
24	VR-UP
25	VR-DOWN
26	REMOCON
27	AUXL
28	AGND
29	AUXR
30	MIC-SIGN

6-3 FRONT PCB Bottom



6-4 MAIN PCB Top



6-4-1 Pin Connection

① PCN3

Power from SMPS

Pin No.	Signal
1	5.6V
2	5.8V
3	5.8V
4	5.8V
5	DGND
6	M+12V
7	P-ON
8	MGND
9	+12V
10	AGND
11	AGND
12	VFDG
13	+VFD
14	-VFD
15	-VP

② TACN1

TAPE Control / Signal

Pin No.	Signal
1	SOL
2	TAPE_MUTE
3	REC
4	REC_MUTE
5	MOTOR
6	HALL
7	REC_SW
8	HALF_SW
9	MB+
10	GND
11	+12V
12	NC
13	REC_R
14	REC_L
15	OUT_R
16	GND
17	OUT_L

③ UCN2

Power / Control / Signal from
FRONT PCB

Pin No.	Signal
1	MIC-SIGN
2	AUXR
3	AGND
4	AUXL
5	REMOCON
6	VR-DOWN
7	VR-UP
8	AUX_SEN
9	GND
10	VFD_CE
11	VFD_CLK
12	GND
13	-VP
14	+VFD
15	-VFD
16	+12V
17	ST5V
18	KEY_AD2
19	HP-R
20	AGMD
21	HP-L
22	VFD_DO
23	HP-SEN
24	MIC-SEN
25	VOL_LED1
26	VOL_LED2
27	VOL_LED3
28	VOL_LED4
29	VOL_LED5
30	VOL_LED6

④ USBW1

USB Data / Power

Pin No.	Signal
1	5V
2	USB D-
3	USB D+
4	GND
5	KEY_AD1

⑤ CON70

DECK Control

Pin No.	Signal
1	TM-(CL)
2	TM+(OP)
3	SW2(PLAY)
4	L-S(LEVEL)
5	GND(SW)
6	SW1(INITIAL)
7	T-S(DISC CHK)
8	D5V
9	SW5(STOCK)
10	L-LED(GND)
11	SW2(MODE2)
12	SW3(MODE1)
13	T-LED(GND)
14	CM-(DW)
15	CM+(UP)

⑥ RFCN3

DECK Motor Control

Pin No.	Signal
1	DCMO+
2	DCMO-
3	SLED-
4	SLED+

⑦ RFCN1

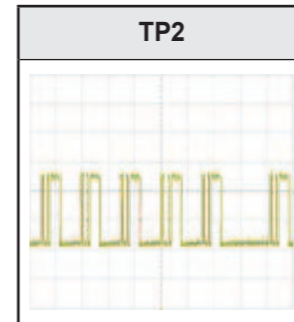
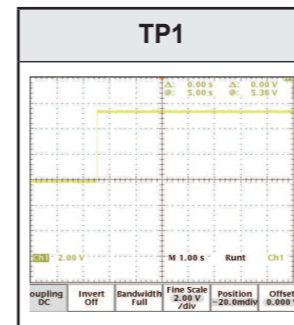
DECK Data

Pin No.	Signal
1	CD-VR
2	MPD
3	CD-LD
4	LD-GND
5	SW
6	F-
7	T+
8	T-
9	F+
10	B
11	C
12	D
13	A
14	E
15	F
16	Vcc
17	Vref
18	GND
19	DVD-VR
20	MPD
21	DVD-LD
22	RF
23	H-Vcc

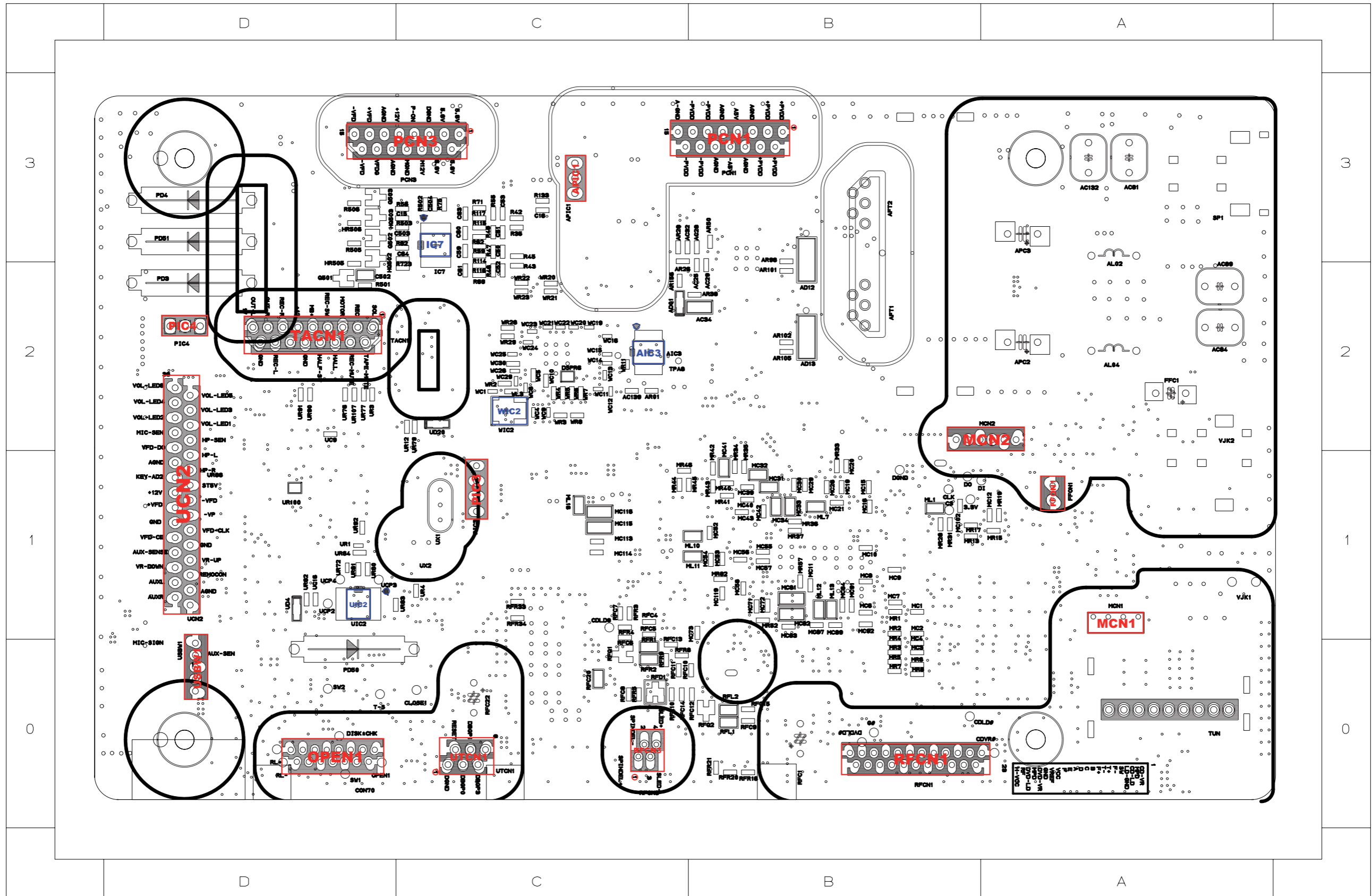
6-4-2 Test Point Wave Form

⑧ PCN1
AMP Power

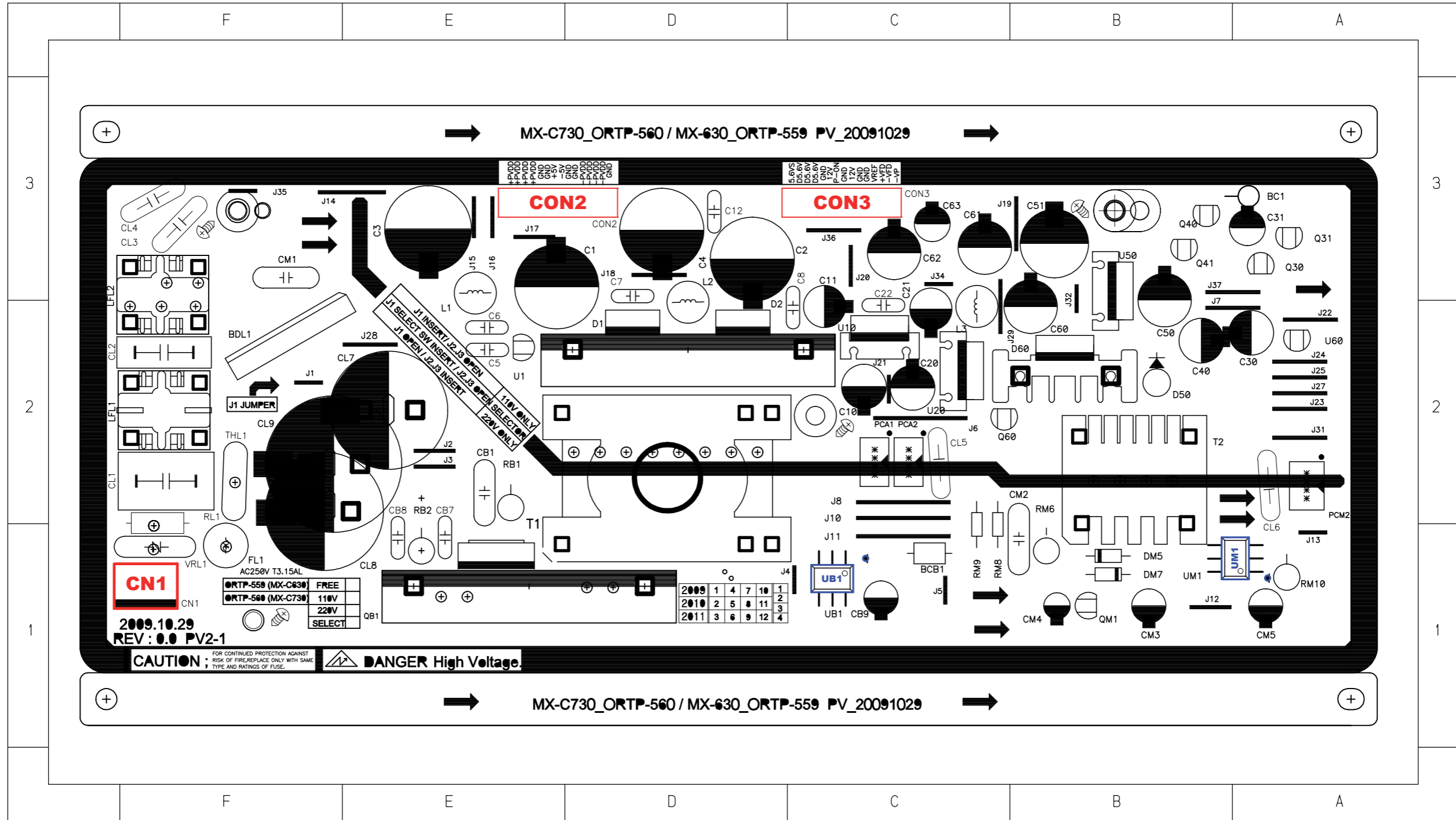
Pin No.	Signal
1	+PVDD37V
2	
3	
4	
5	A-GND
6	A-GND
7	A5V
8	-A5V
9	A-GND
10	A-GND
11	-PVDD37V
12	
13	
14	
15	A-GND



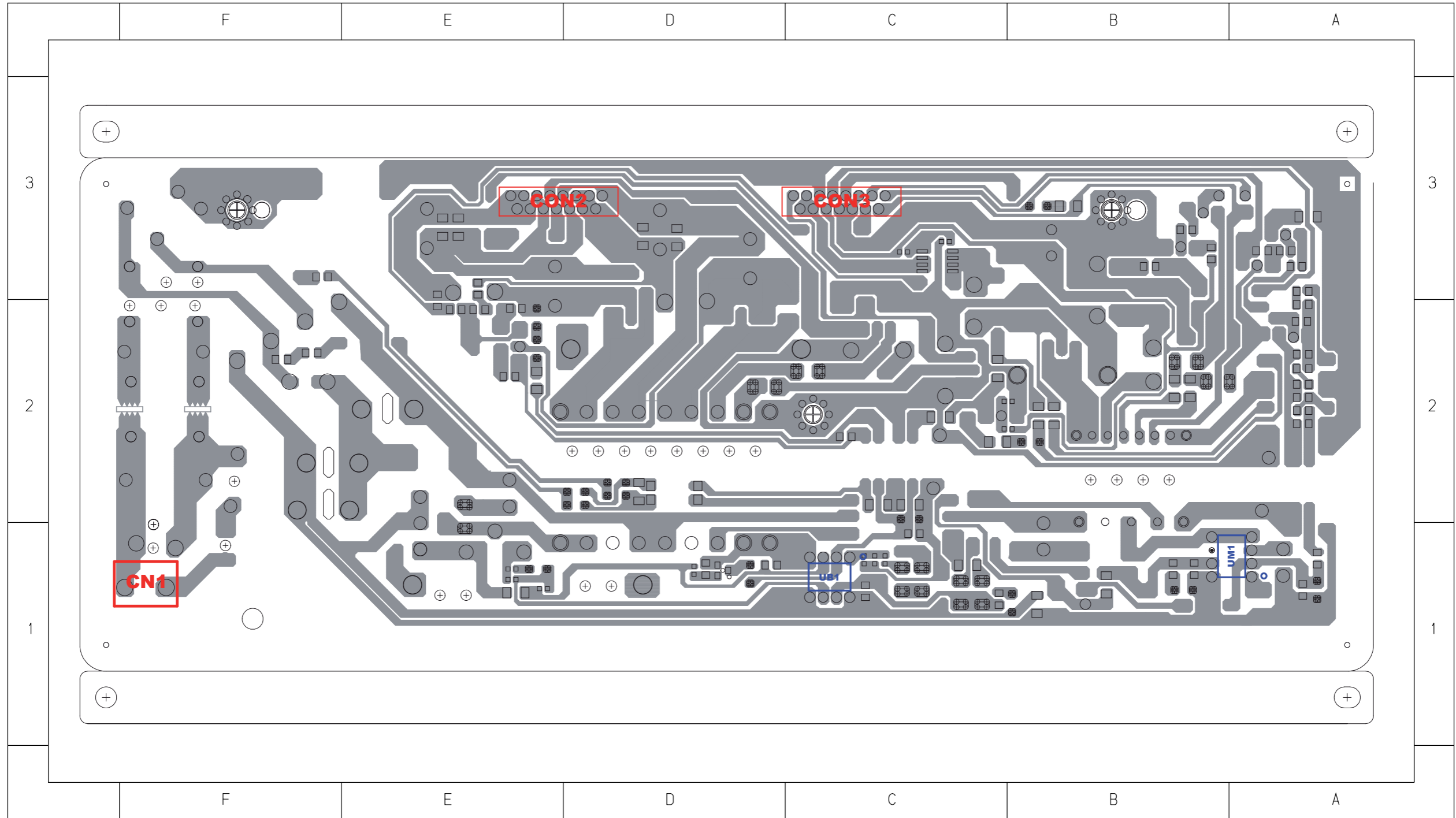
6-5 MAIN PCB Bottom



6-6 SMPS PCB Top

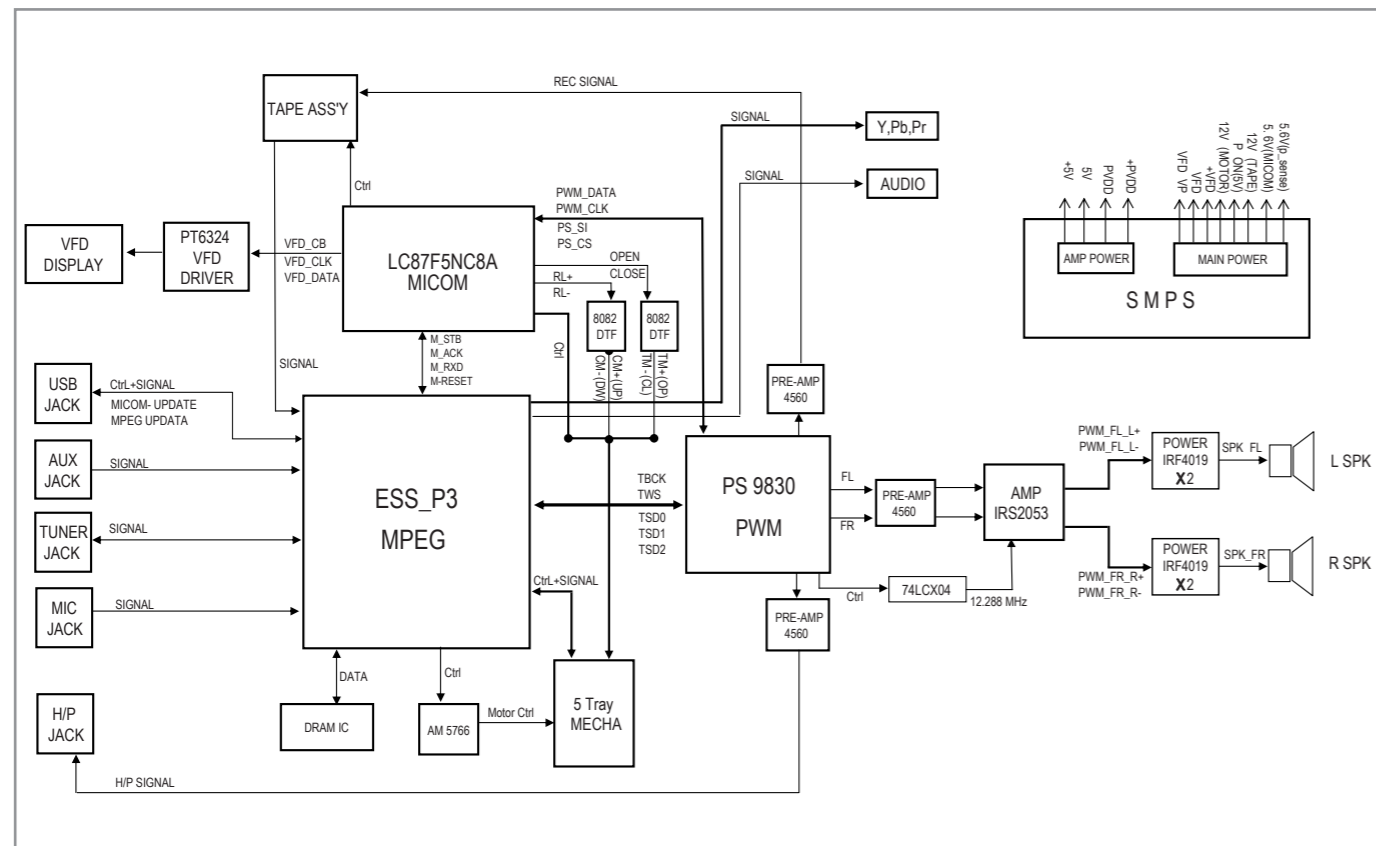


6-7 SMPS PCB Bottom



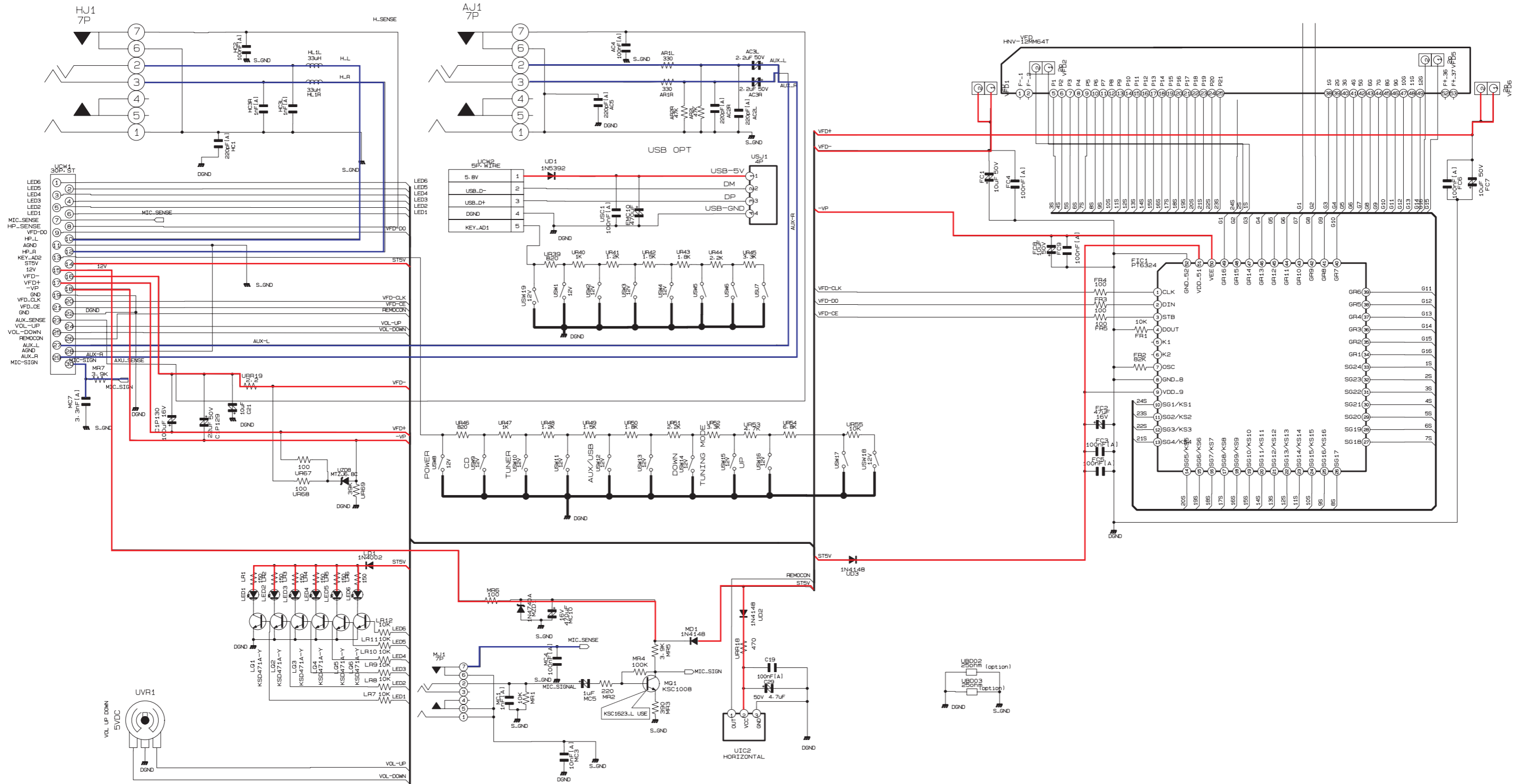
7. Schematic Diagram

7-1 Overall Block Diagram

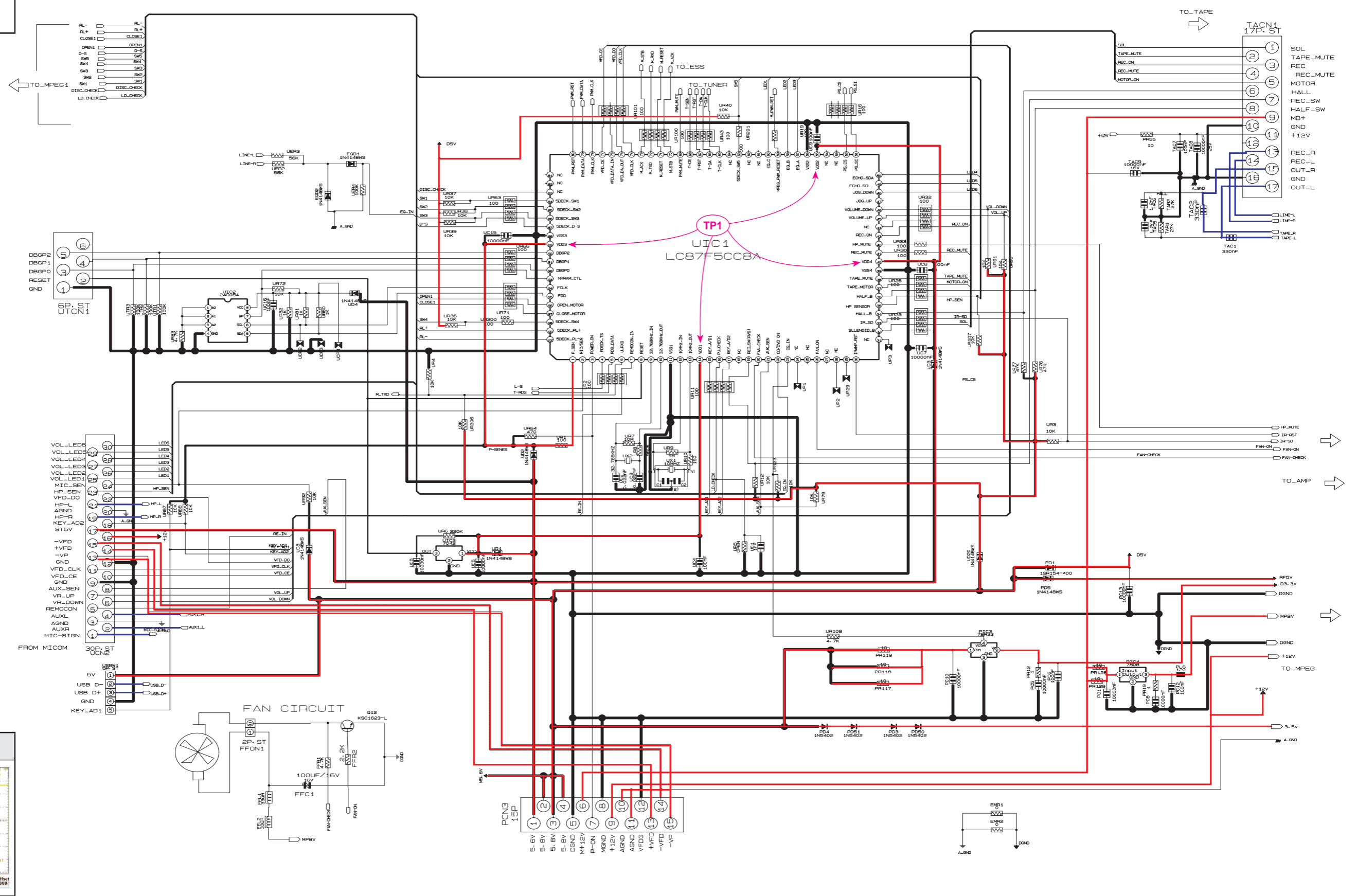
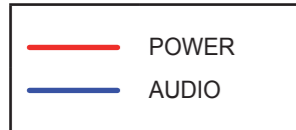


- The Main Micom IC is LC87F5NC8A. It's same as last year. MPEG chip is ES8391SCD. It's upgrade version of ES8390SCD.
- The Main Micom control every IC in this PCB.
- Video signal is come from DVD mecha and go to the MPEG IC. Then MPEG IC decode this signal to real video signal.
- Audio signal is come from DVD mecha, TUNER, AUX, MIC. Then MPEG IC decode to digital I2S signal. This signal goto the PS9830(PWM modulator) to convert PWM signal. PWM signal amplified at IR AMP stage and then Low Pass Filtered. This signal is real audio signal.

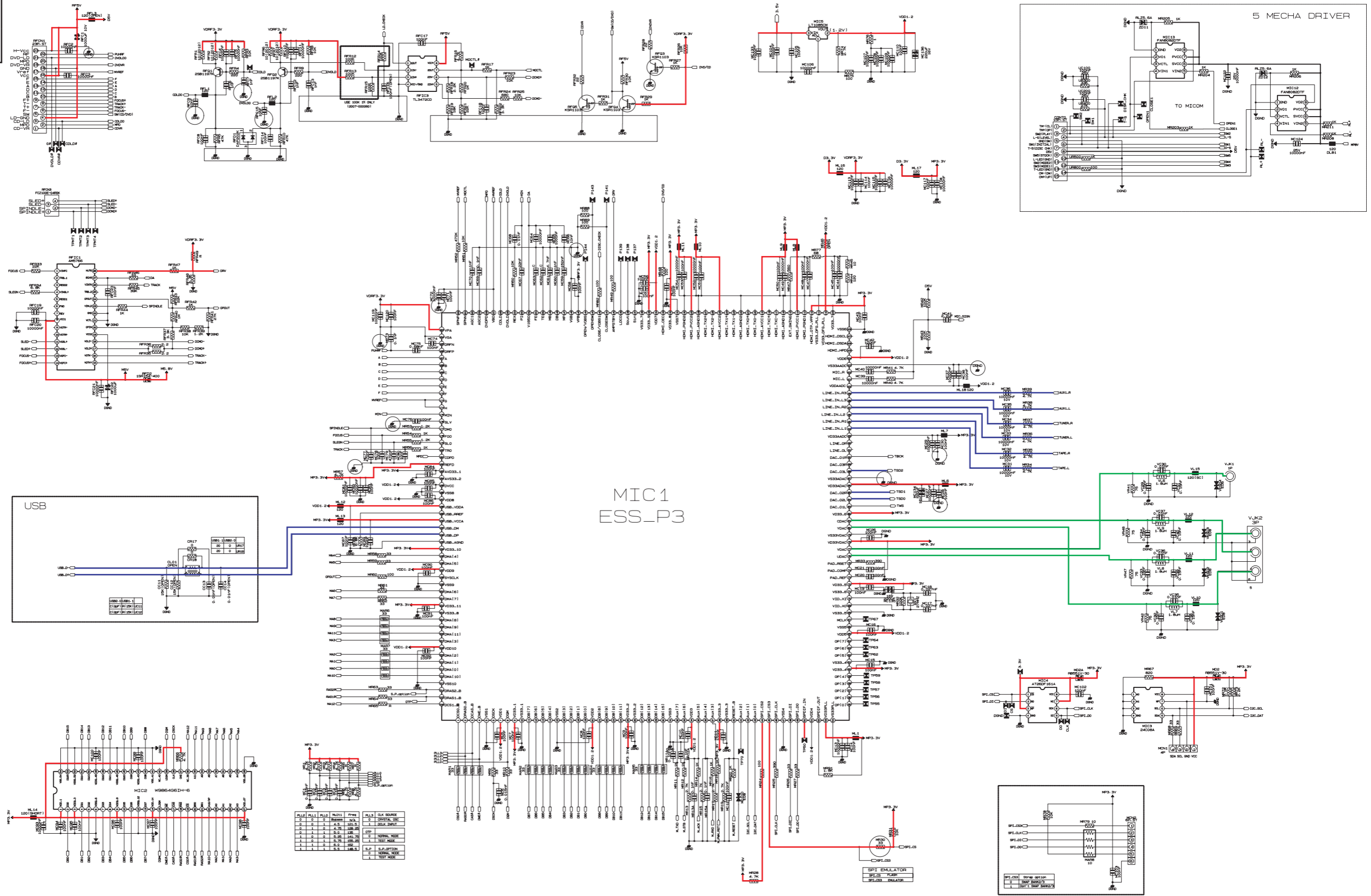
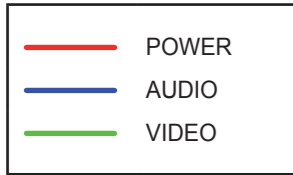
7-2 FRONT



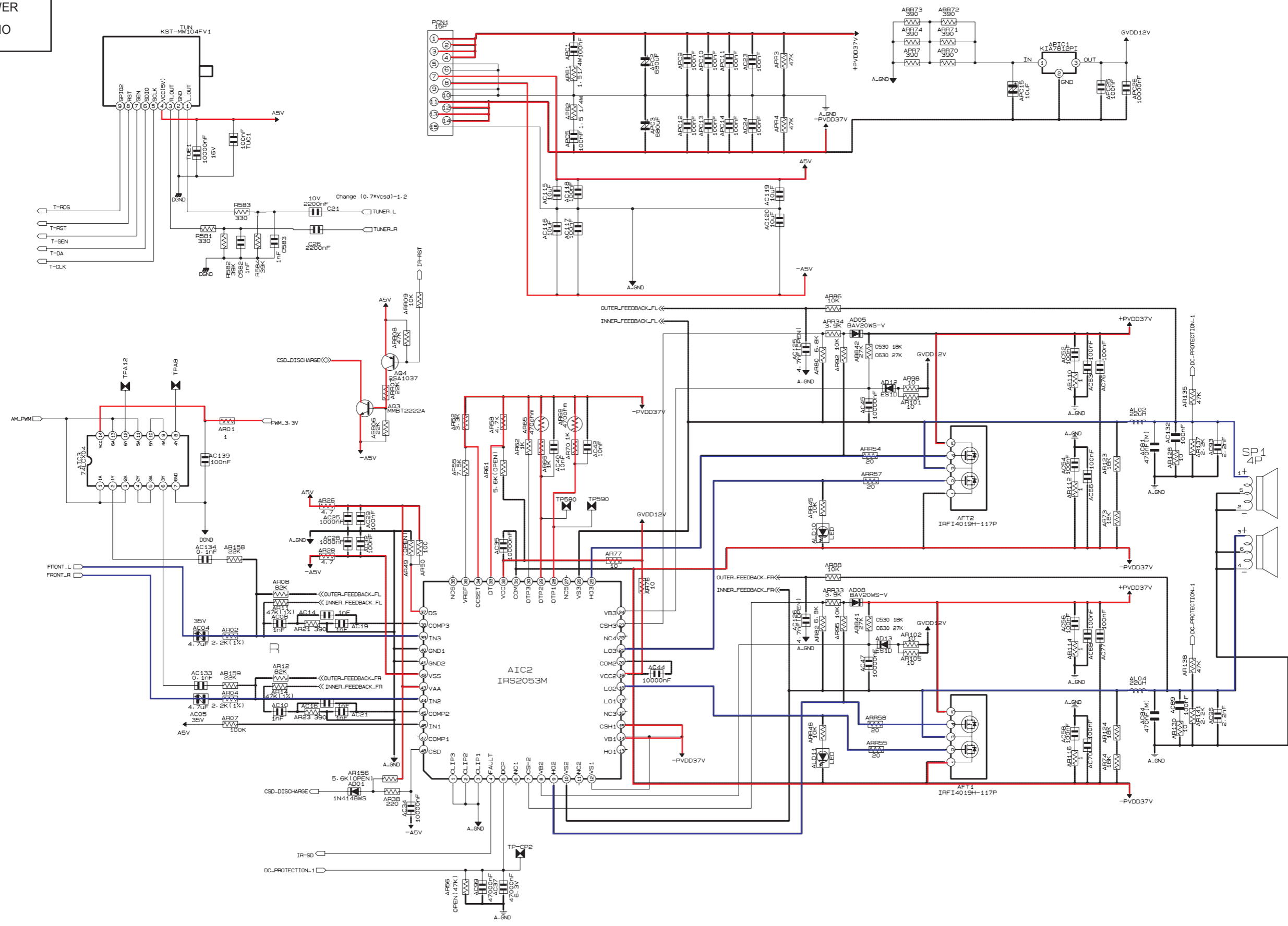
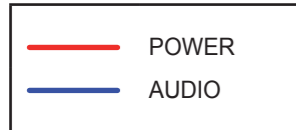
7-3 MAIN_MICOM



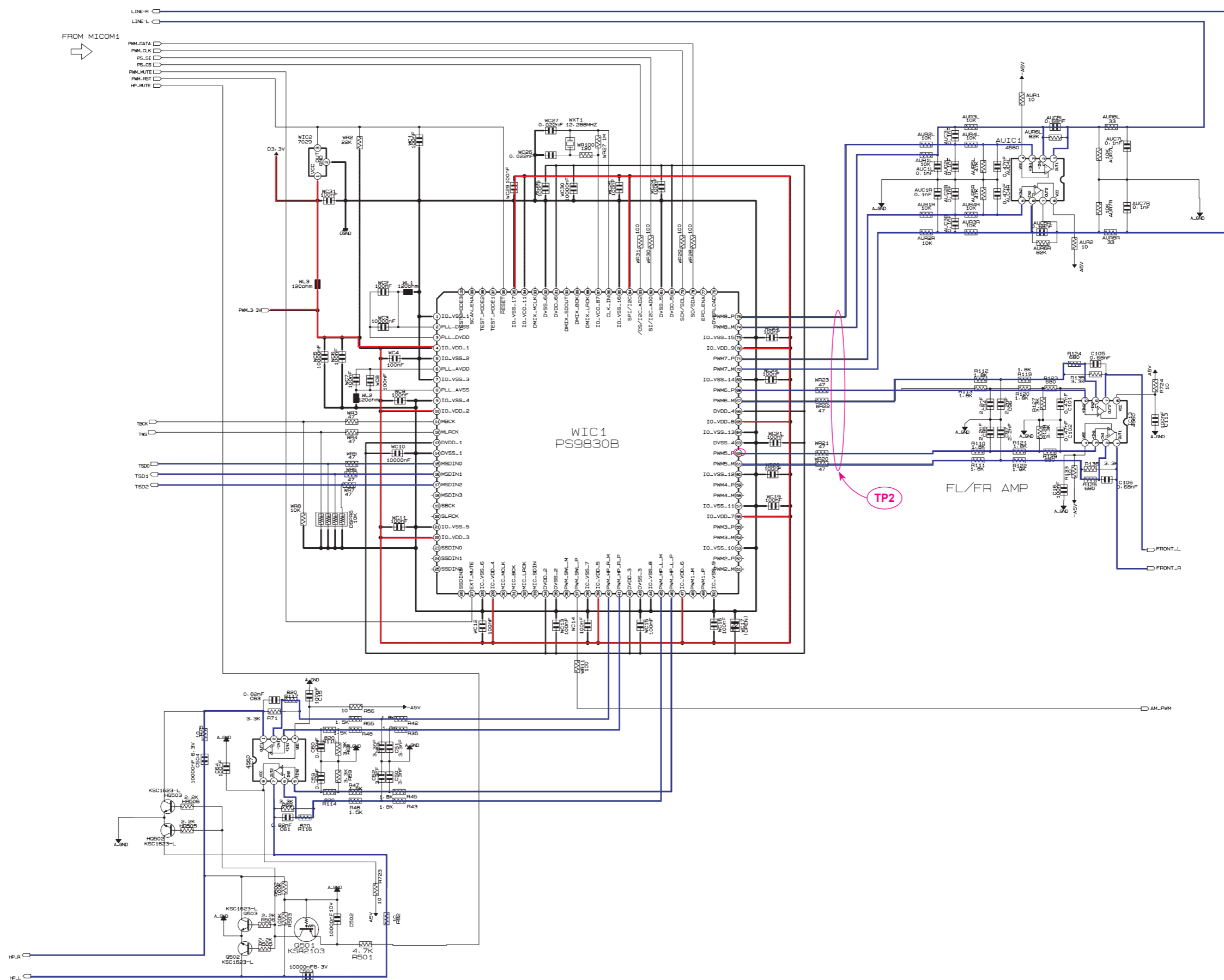
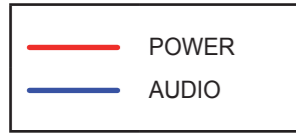
7-4 MAIN_MPEG



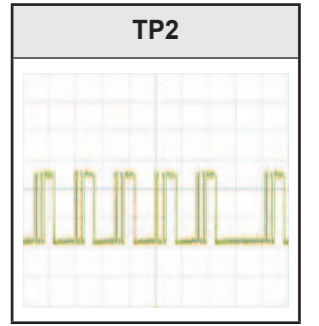
7-5 MAIN_PWM



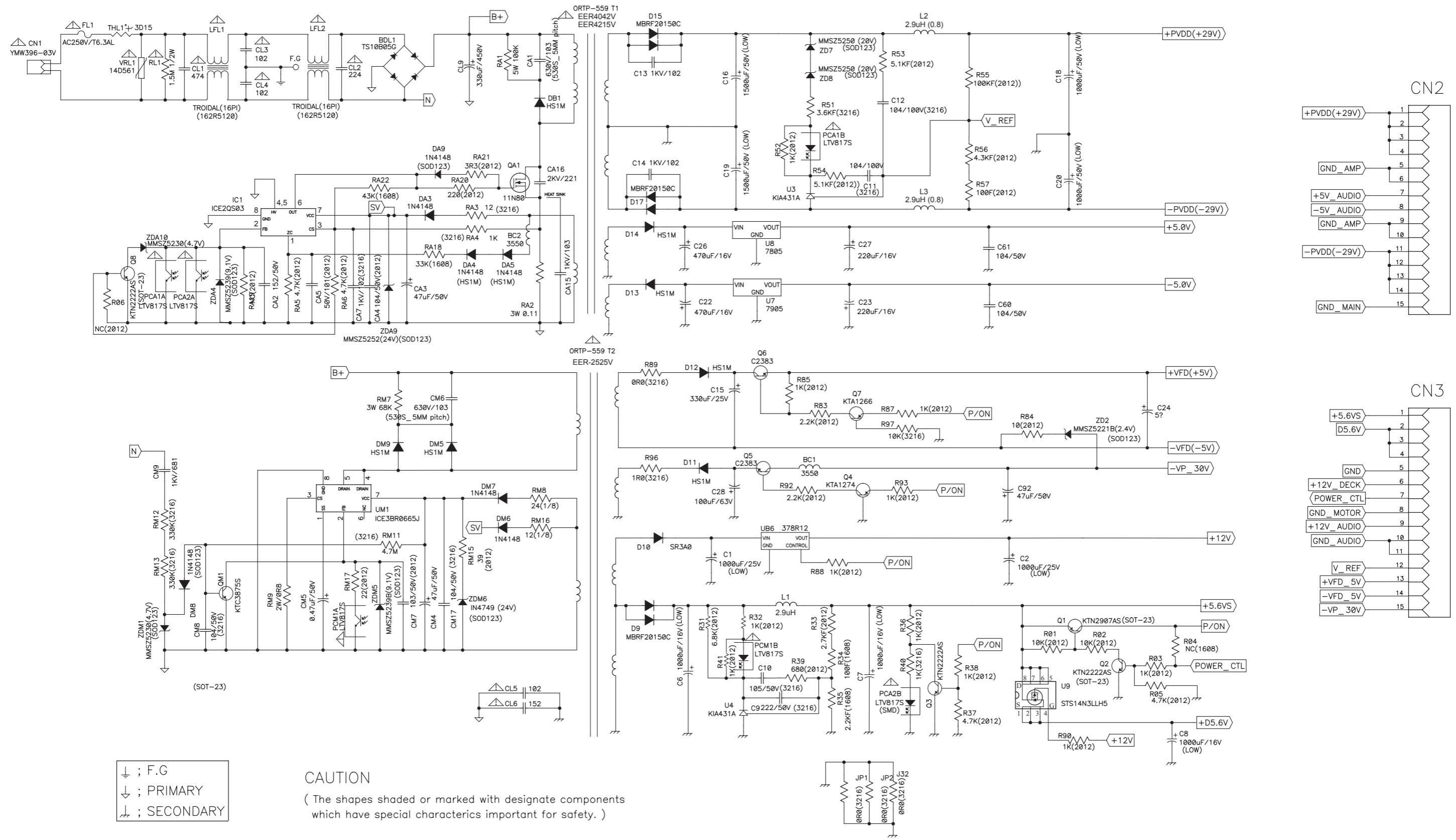
7-6 MAIN_AMP



FROM MICOM1



7-7 SMPS



⊥ ; F.G
 ↓ ; PRIMARY
 ↕ ; SECONDARY

CAUTION
 (The shapes shaded or marked with designate components which have special characteristics important for safety.)

MEMO