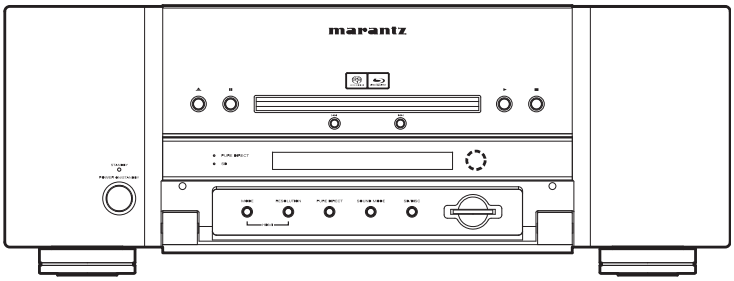
Service Manual

UD9004 /U1B/N1B/S1B/R1B

SUPER AUDIO CD/ BLU-RAY DISC PLAYER



- For purposes of improvement, specifications and design are subject to change without notice.
- Please use this service manual with referring to the operating instructions without fail.
- Some illustrations using in this service manual are slightly different from the actual set.

marantz®

UD9004

Ver. 5

Please refer to the MODIFICATION NOTICE.

S0743-1V05DM/DG1309

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WARNING: Violators will be prosecuted to the maximum extent possible.

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.
Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.
The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

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MARANTZ AMERICA, INC
100 CORPORATE DRIVE
MAHWAH, NEW JERSEY 07430
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CHINA. 200040
TEL : 021 - 6248 - 5151
FAX : 021 - 6248 - 4434

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意：

⚠がついている部品は、安全上重要な部品です。必ず指定されている部品番号のものを使用して下さい。

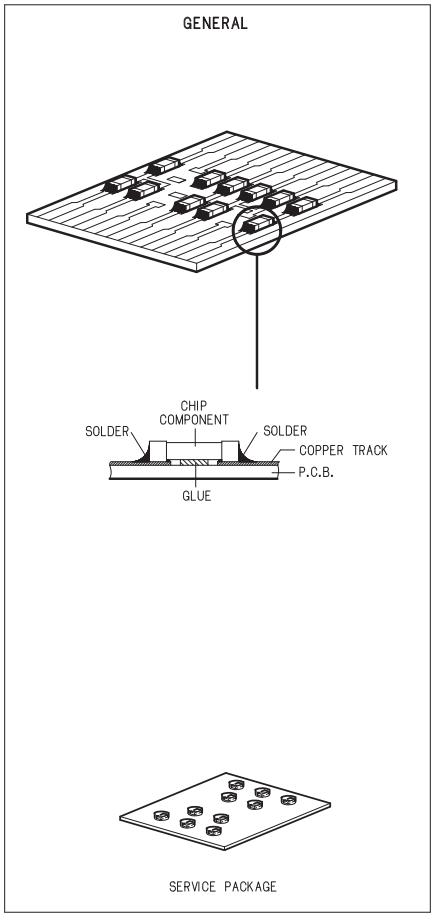
SHOCK, FIRE HAZARD SERVICE TEST :

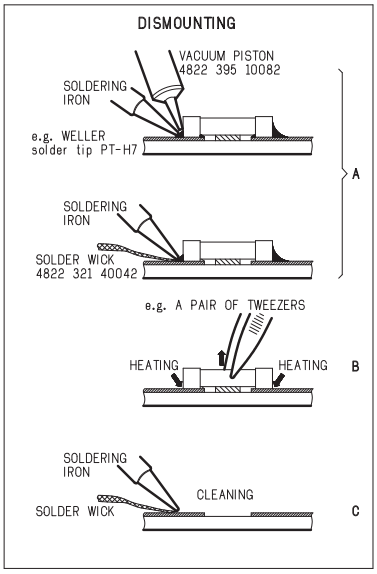
CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.
Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.
Ref. UL Standard No. 60065.

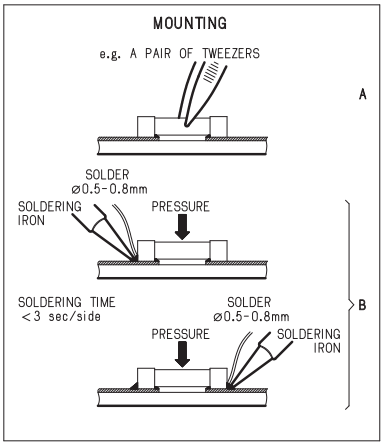
In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

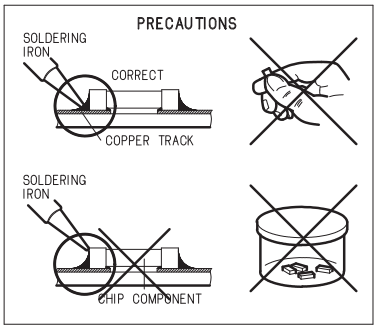
SERVICE HINTS AND TOOLS

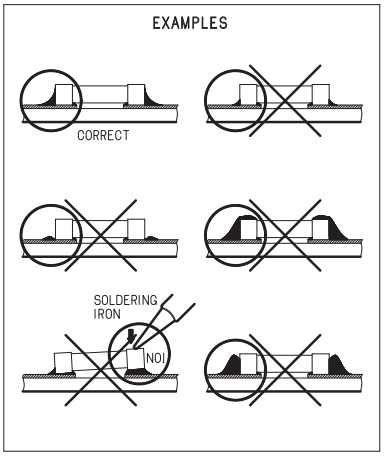
SERVICE HINTS











SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. if the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

LASER RADIATON

Caition - Class 1M visible and invisible laser radiation when open.
Do not view directly optical instruments.

CAUTION **Please heed he points listed below during servicing and inspection.**

◎ **Heed the cautions!**

Spots requiring particular attention when servicing, such as the cabinet, parts, chassis,etc., have cautions indicated on labels. be sure to heed these causions and the cautions indicated in the handling instructions.

◎ **Caution concerning electric shock!**

(1) An AC voltage is impressed on this set, so touching internal metal parts when the set is energized could cause electric shock. Take care to avoid electric shock, by for example using an isolating transformer and gloves when servicing while the set is energized, unplugging the power cord when replacing parts, etc.

(2) Tere are high voltage parts inside. Handle with extra care when the set is energized.

◎ **Caution concerning disassembly and assembly!**

Through great care is taken when manufacturing parts from sheet metal, there may in some rare cases be burrs on the edges of parts which could cause injury if fingers are moved across them. Use gloves to protect your hands.

◎ **Only use designated parts!**

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). For replacement parts, be sure to use parts which have the same poroperties. In particular, for the important safety parts that are marked ⚠ on wiring diagrams and parts lists, be sure to use the designated parts.

◎ **Be sure to mount parts and arrange the wires as they were originally!**

For safety seasons, some parts use tape, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wores omsode amd clamps are used to keep wires away from heating and high voltage parts, so be sure to set everything back as it was originally.

◎ **Inspect for safety after servicing!**

Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct an inslation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)

Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and turn the power switch on. Using a 500V insulation resistance tester, check that the inplug and the externally exposed metal parts (antenna terminal, headphones terminal, input terminal, etc.) is 1MΩ or greater. If it is less, the set must be inspected and repaired.

CAUTION **Concerning important safety parts**

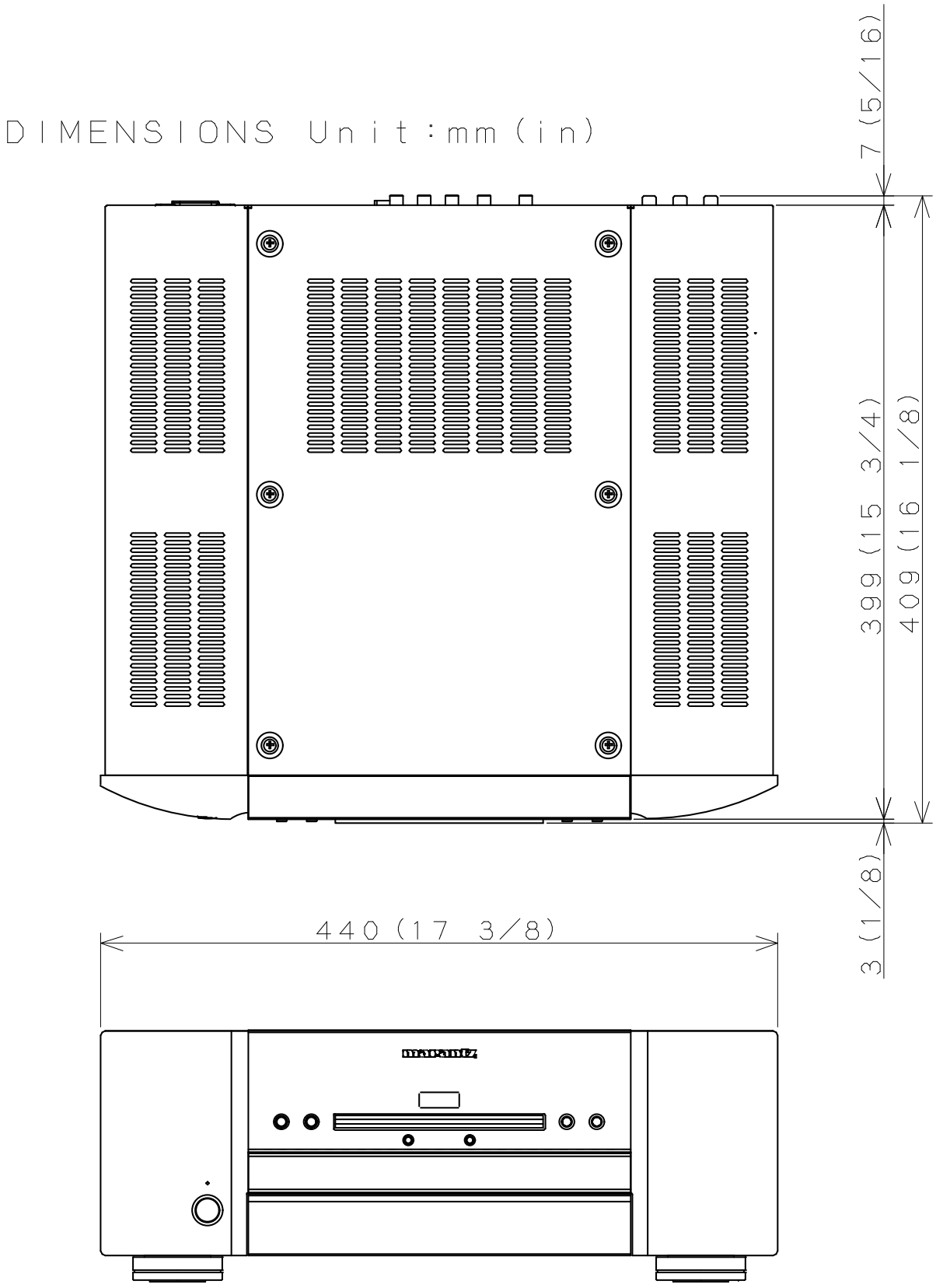
Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be poreserved. Parts with safety properties are indicated as shown below on the wiring diagrams and parts lists is this service manual. Be sure to replace them with parts with the designated part number.

(1) Schematic diagrams ..... Indicated by the ⚠ mark.

(2) Parts lists ..... Indicated by the ⚠ mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

DIMENSION

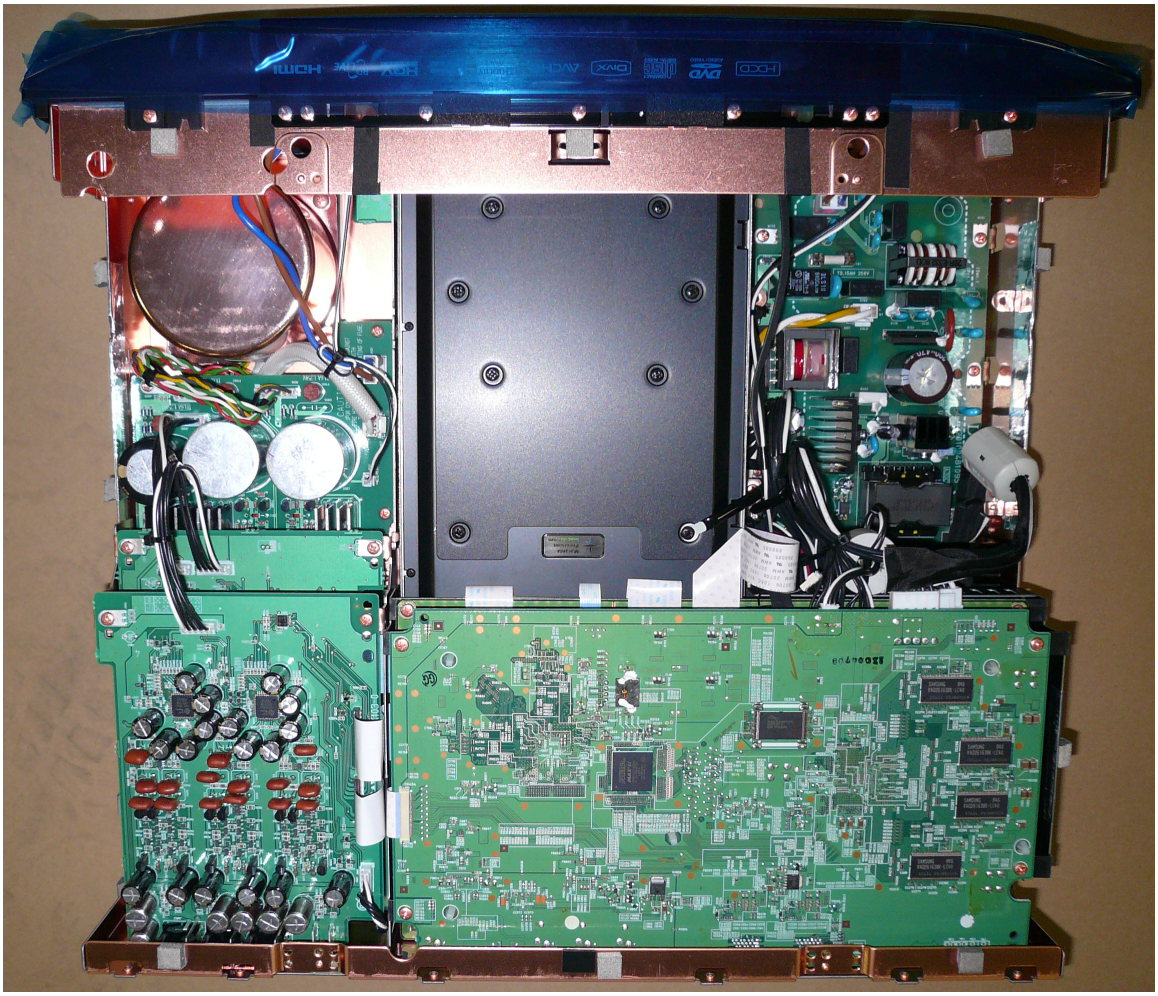


WIRE ARRANGEMENT

If wire bundles are untied or moved to perform adjustment or parts replacement etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.
Otherwise, incorrect arrangement can be a cause of noise generation.

Wire arrangement viewed from the top

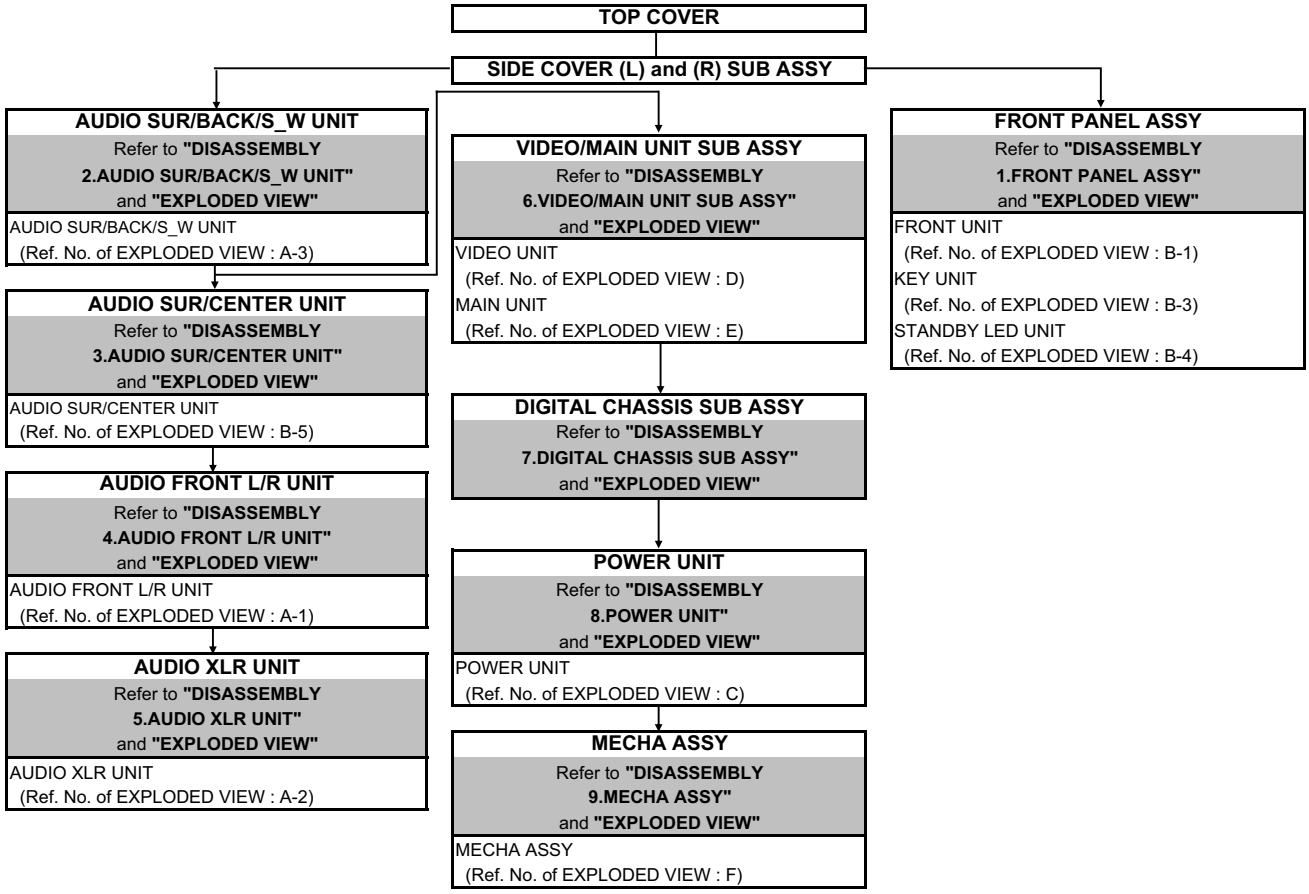
Front Panel side



Back Panel side

DISASSEMBLY

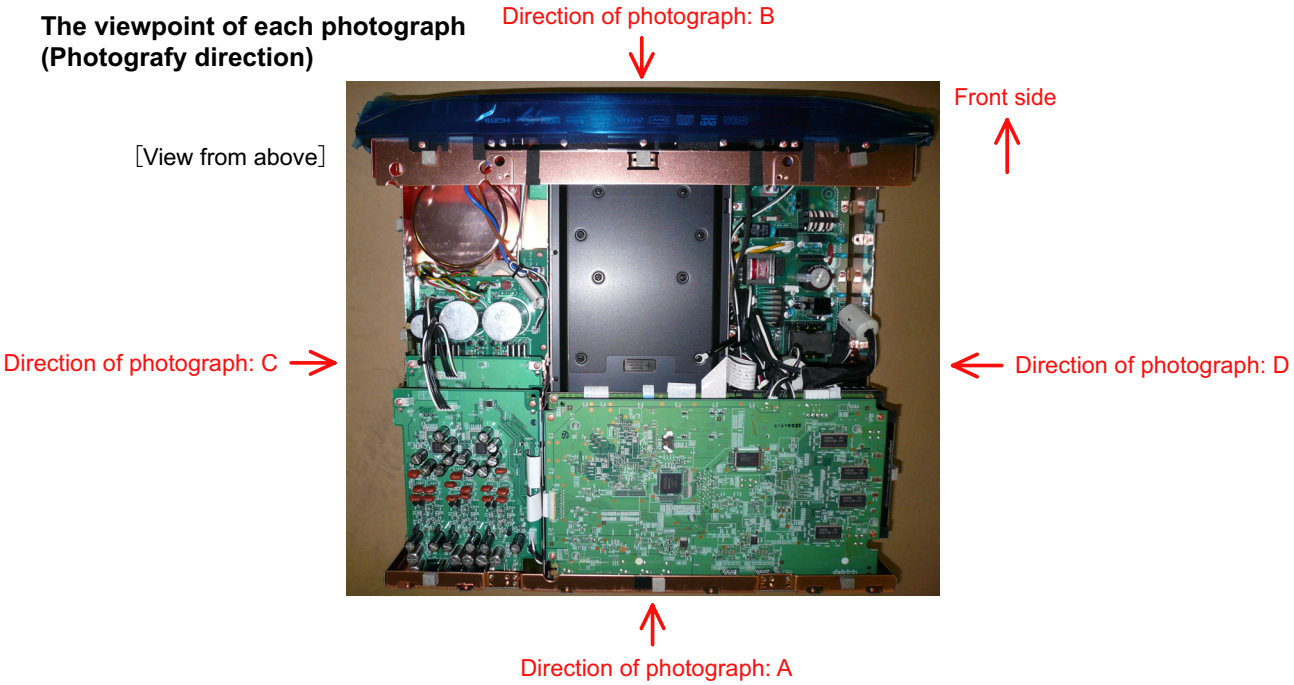
- Disassemble in order of the arrow of the figure of following flow.
- In the case of the re-assembling, assemble it in order of the reverse of the following flow.
- In the case of the re-assembling, observe "attention of assembling" it.
- When reattaching the BOTTOM COVER after removing it, be careful that it does not run against the REAR PANEL.



About the photos used for descriptions in the “DISASSEMBLY” section.

- The direction from which the photographs used herein were photographed is indicated at "Direction of photograph: ***" at the left of the respective photographs.
- Refer to the table below for a description of the direction in which the photos were taken.
- Photographs for which no direction is indicated were taken from above the product.

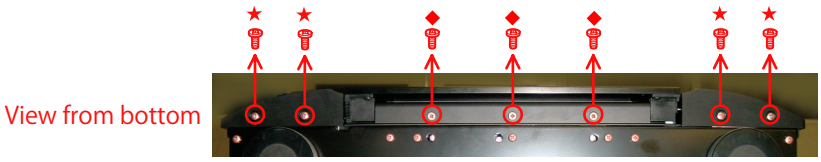
The viewpoint of each photograph (Photografy direction)

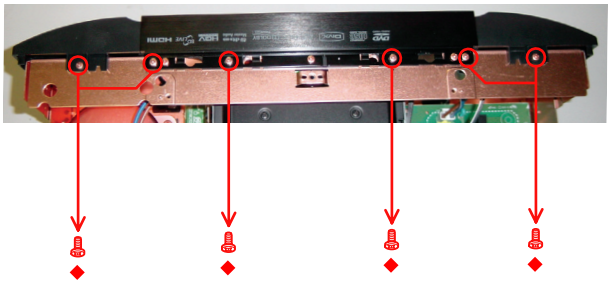


1. FRONT PANEL ASSY

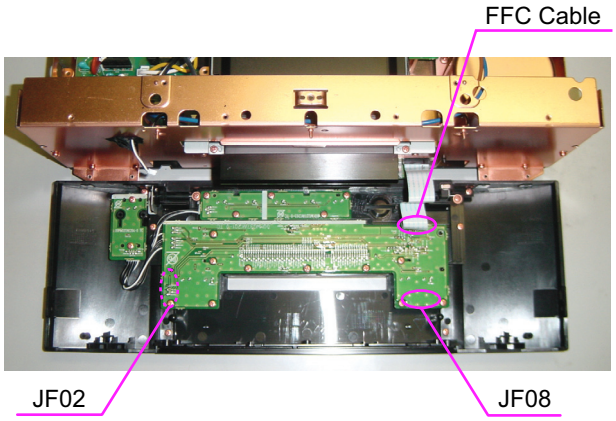
Proceeding : TOP COVER → SIDE COVER (L) and (R) SUB ASSY → FRONT PANEL ASSY

(1) Remove the screws.





(2) Remove the screws. Disconnect the connector wire and FFC Cable.



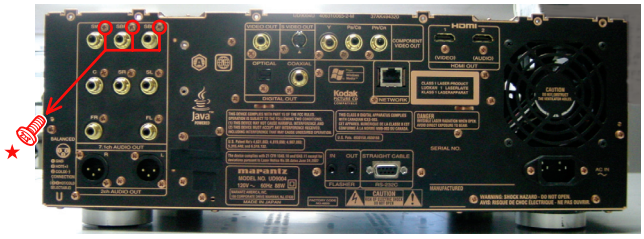
Please refer to **"EXPLODED VIEW"** for the disassembly method of each P.W.B included in FRONT PANEL ASSY.

2. AUDIO SUR/BACK/S_W UNIT

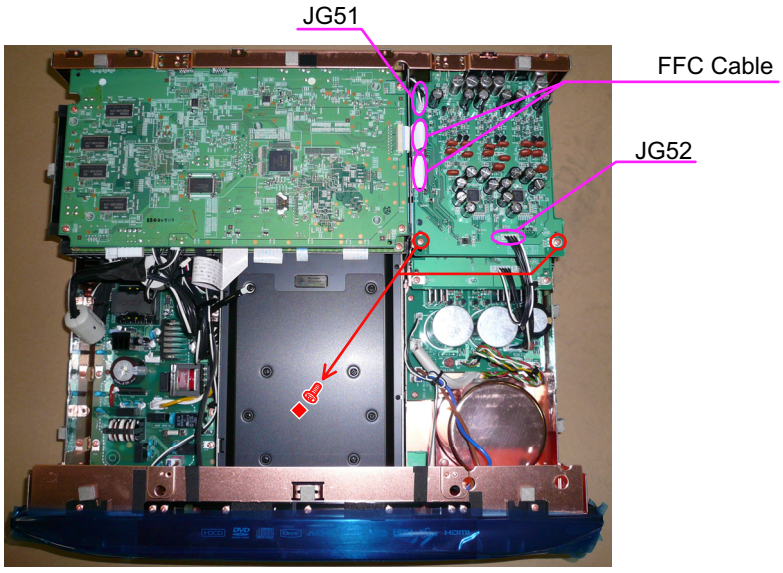
Proceeding : TOP COVER → SIDE COVER (L) and (R) SUB ASSY → AUDIO SUR/BACK/S_W UNIT

(1) Remove the screws.

Direction of photograph: A



(2) Disconnect the connector wires and FFC cables then remove the screws.

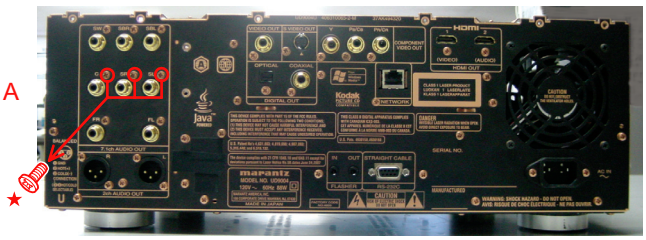


3. AUDIO SUR/CENTER UNIT

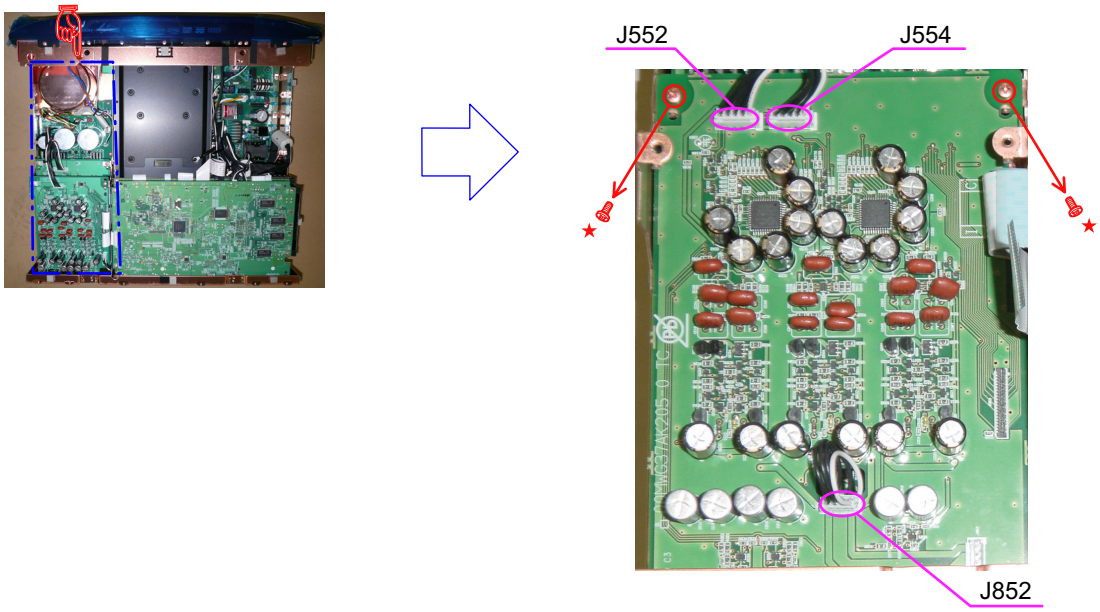
手順 : TOP COVER → SIDE COVER (L) and (R) SUB ASSY
→ AUDIO SUR/BACK/S_W UNIT → AUDIO SUR/CENTER UNIT

(1) Remove the screws.

Direction of photograph: A



(2) Remove the screws.

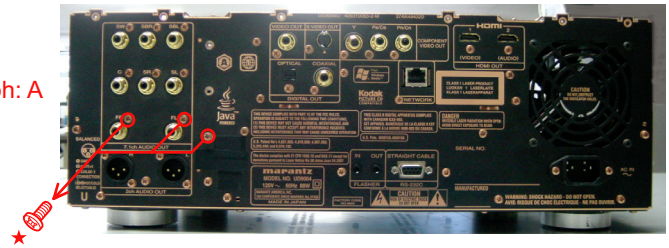


4. AUDIO FRONT L/R UNIT

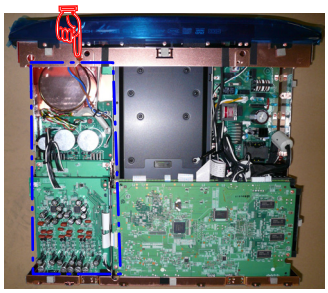
Proceeding : TOP COVER → SIDE COVER (L) and (R) SUB ASSY
→ AUDIO SUR/BACK/S_W UNIT → AUDIO SUR/CENTER UNIT
→ AUDIO FRONT L/R UNIT

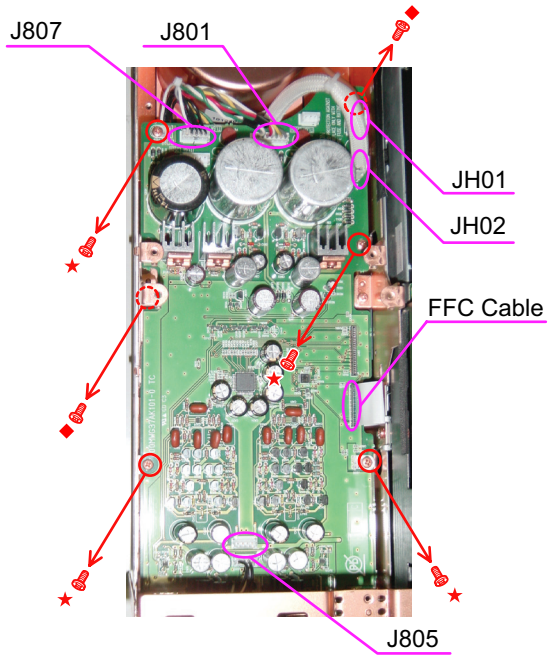
(1) Remove the screws.

Direction of photograph: A



(2) Disconnect the connector wire and FFC cables, then remove the screws.



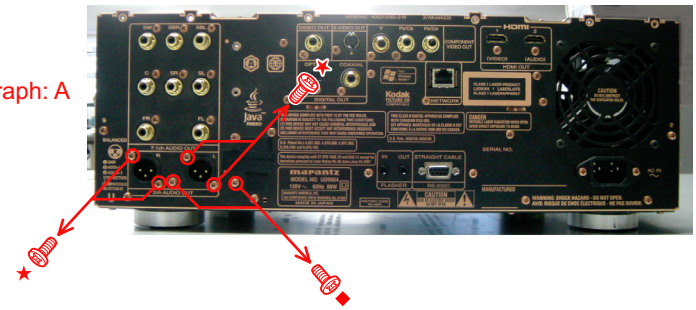


5. AUDIO XLR UNIT

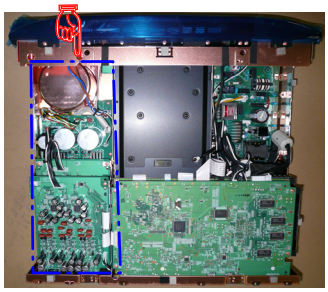
Proceeding : **TOP COVER** → **SIDE COVER (L) and (R) SUB ASSY**
→ **AUDIO SUR/BACK/S_W UNIT** → **AUDIO SUR/CENTER UNIT**
→ **AUDIO FRONT L/R UNIT** → **AUDIO XLR UNIT**

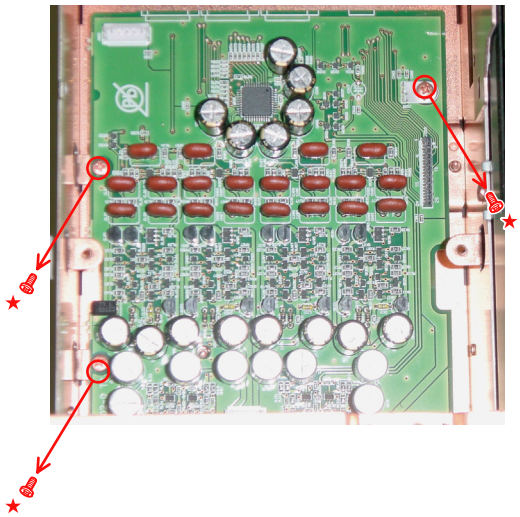
(1) Remove the screws.

Direction of photograph: A



(2) Remove the screws.



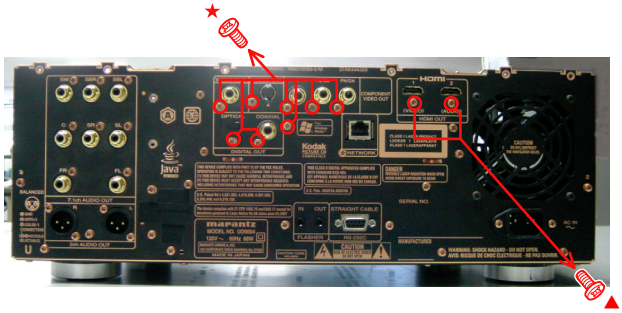


6. VIDEO/MAIN UNIT SUB ASSY

Proceeding : TOP COVER → SIDE COVER (L) and (R) SUB ASSY → AUDIO SUR/BACK/S_W UNIT → VIDEO/MAIN UNIT SUB ASSY

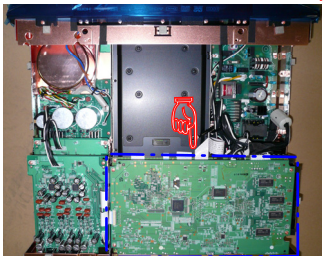
(1) Remove the screws.

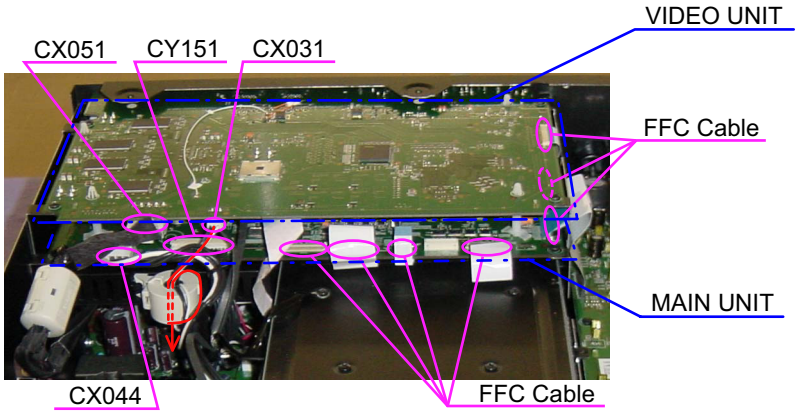
Direction of photograph: A



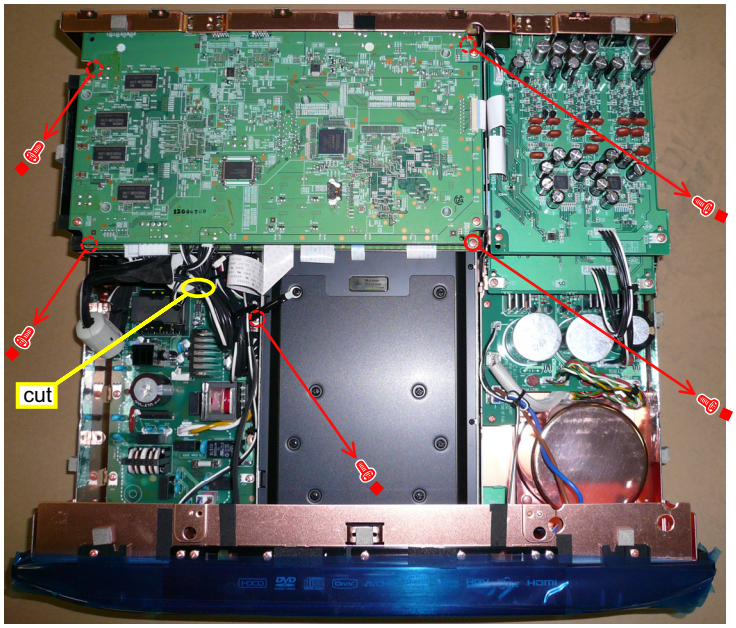
(2) Disconnect the connector wire and FFC cables.

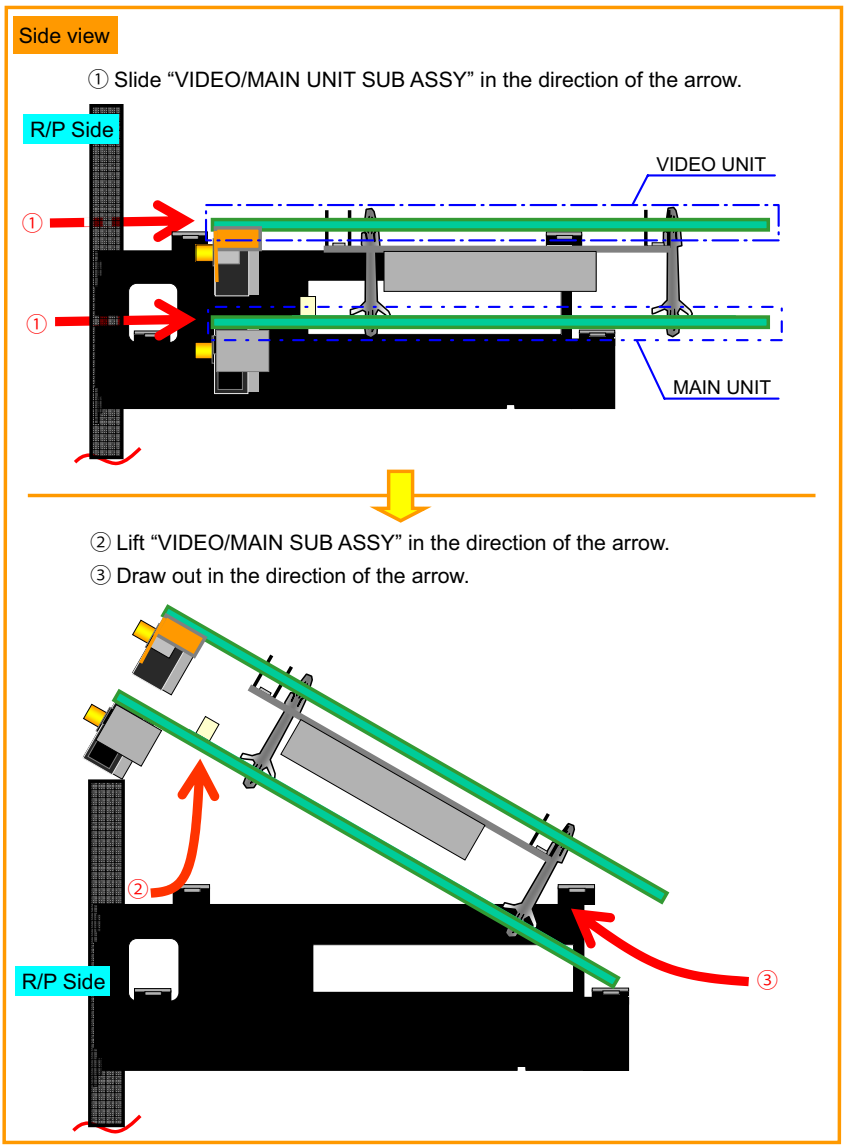
Direction of photograph: B





(3) Cut the wire clamp band. Remove the screws, then remove “VIDEO/MAIN UNIT SUB ASSY". Refer to the diagram next page for instructions on removing.





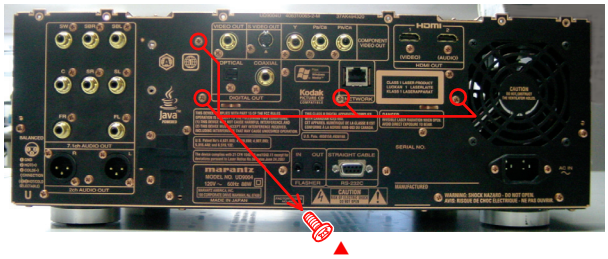
Please refer to **"EXPLODED VIEW"** for the disassembly method of each P.W.B included in VIDEO/MAIN UNIT SUB ASSY.

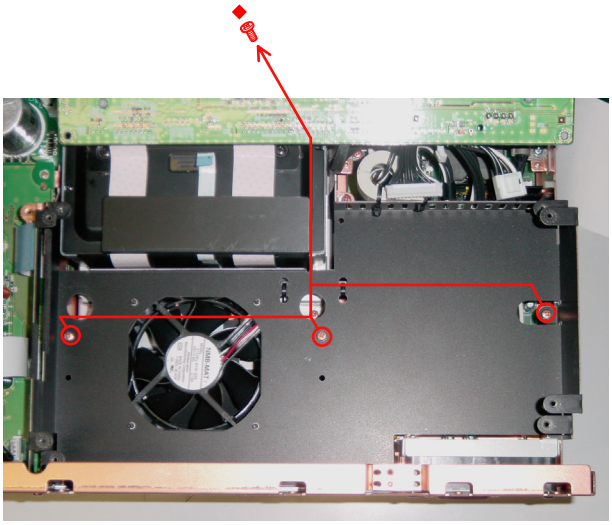
7. DIGITAL CHASSIS SUB ASSY

Proceeding : TOP COVER → SIDE COVER (L) and (R) SUB ASSY → AUDIO SUR/BACK/S_W UNIT → VIDEO/MAIN UNIT SUB ASSY → DIGITAL CHASSIS SUB ASSY

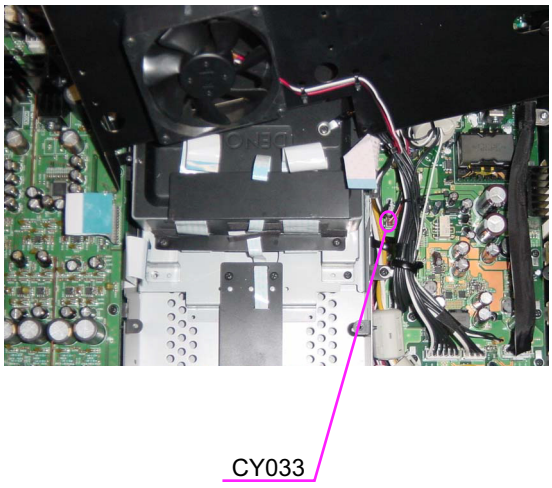
(1) Remove the screws.

Direction of photograph: A





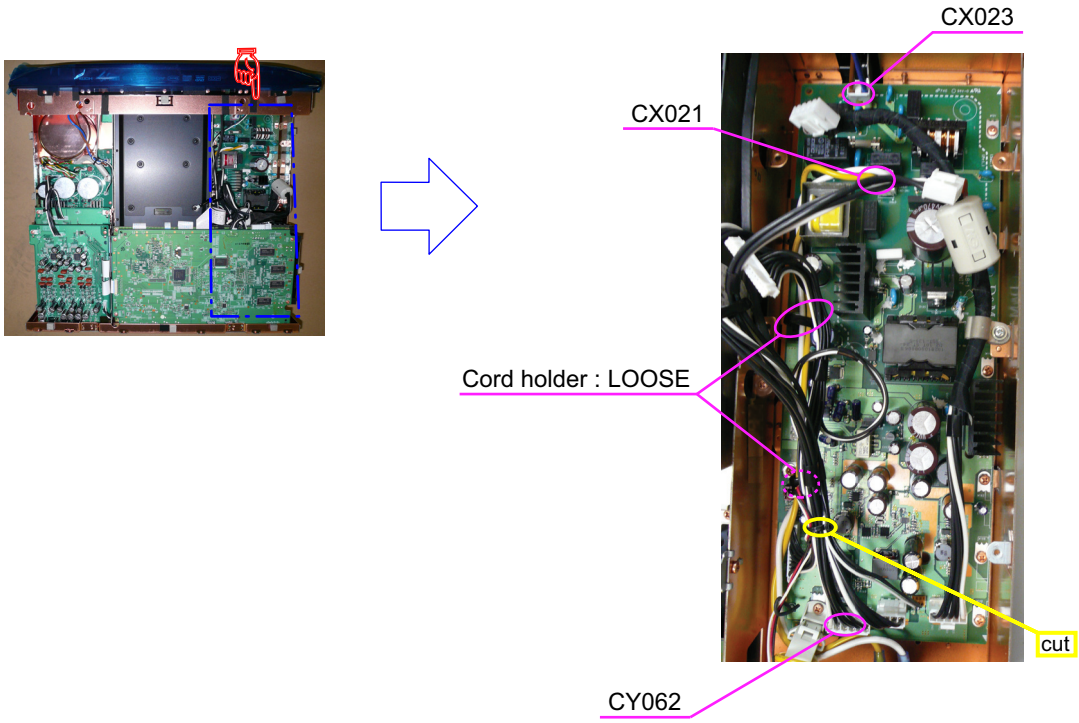
(2) Disconnect the connector wire.



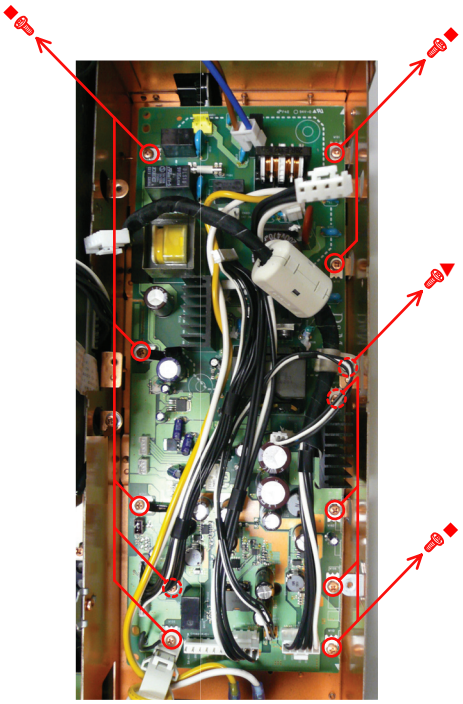
8. POWER UNIT

Proceeding : TOP COVER → SIDE COVER (L) and (R) SUB ASSY → AUDIO SUR/BACK/S_W UNIT → VIDEO/MAIN UNIT SUB ASSY → DIGITAL CHASSIS SUB ASSY → POWER UNIT

(1) Cut the wire clamp band, then disconnect the connector wires.



(2) Remove the screws.

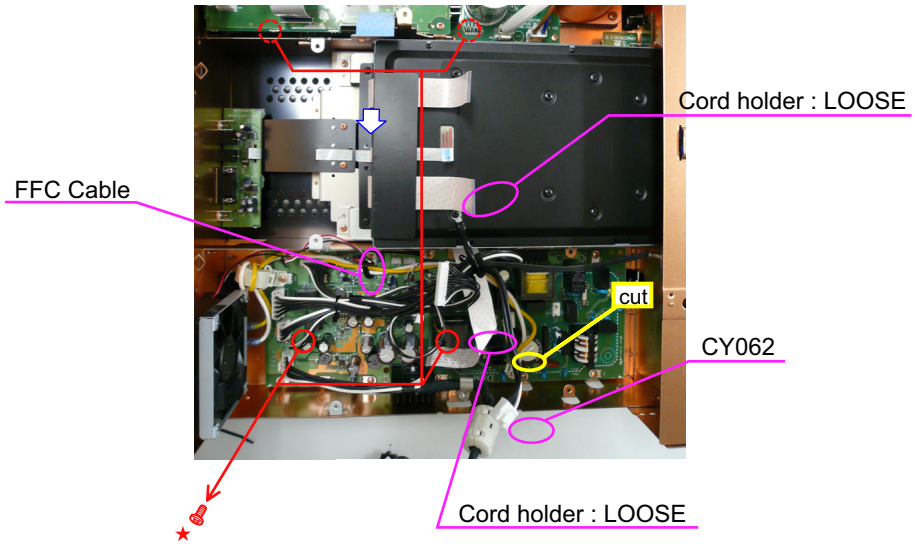


9. MECHA ASSY

Proceeding : **TOP COVER** → **SIDE COVER (L) and (R) SUB ASSY**
→ **AUDIO SUR/BACK/S_W UNIT** → **VIDEO/MAIN UNIT SUB ASSY**
→ **DIGITAL CHASSIS SUB ASSY** → **POWER UNIT**
→ **MECHA ASSY**

(1) Cut the wire clamp band, then disconnect the connector wires. Remove the screws, then remove “MECHA ASSY” in the direction of the arrow.

※ When mounting the mechanism, adjust the position of the loader panel. (See page 16)



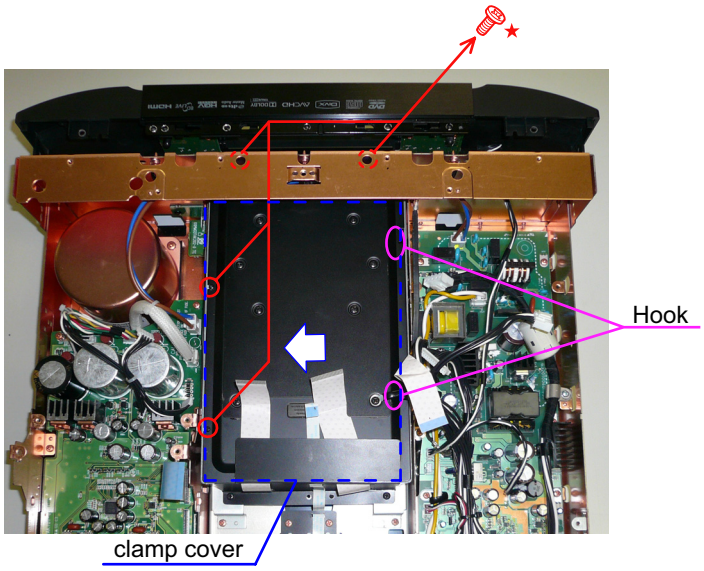
Removing discs

Proceeding : **TOP COVER** → **SIDE COVER (L) and (R) SUB ASSY** → **FRONT PANEL ASSY** → **VIDEO/MAIN UNIT SUB ASSY** → **DIGITAL CHASSIS SUB ASSY** → **BLIND SHEET** → **Clamp cover**

(1) Remove the screws(★ mark), then lift the clamp cover to unhook the hooks.

(2) Remove the Clamp cover in the direction of the arrow, then remove the disc inside.

※¶ Be careful not to scratch the disc when removing the Clamp cover.



AJUSTING THE POSITION OF THE LOADER PANEL

Perform this adjustment when repairing for uneven gaps around the loader panel (top, bottom, left and right) and when re-mounting mechanisms removed when making repairs.

<Preparations>

- First turn on the power, open and close the tray once, then turn the power off.
- Check the various actual gaps.
- Loose the screws marked ▲ and ※ fixing the mechanism in place.

1.Adjusting the gaps

1.1. Adjusting the left and right gaps

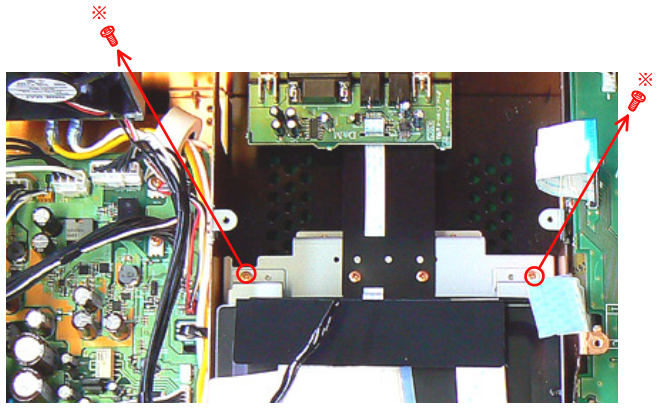
(1) With the mechanism pressing against the front, adjust so that there is no gap on the left and right.

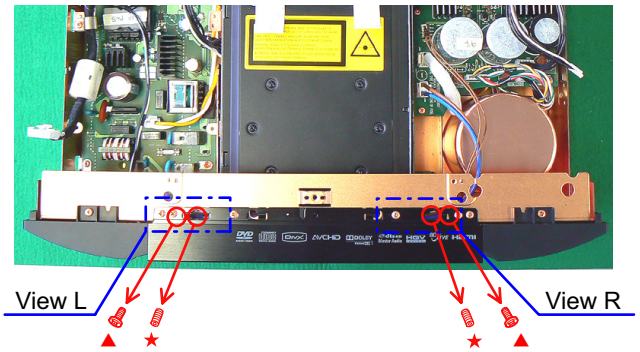
1.2. Adjusting the top and bottom gaps

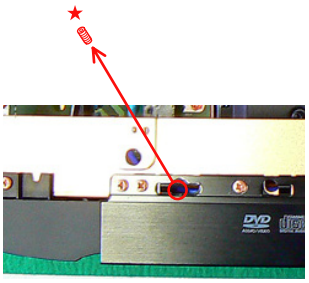
(1) Using a hexagonal wrench, turn the screws marked ★ on the left and right to adjust the top and bottom gaps of the left and right trays.
(When it turns to clockwise, the opening above spreads.)

(2) Fasten the mechanism using the two screws marked ▲.

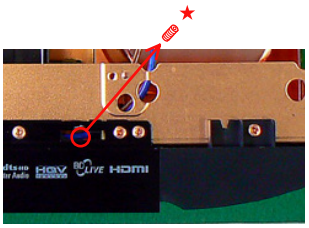
(3) Fasten the mechanism using the two screws marked ※.







Detail of View L



Detail of View R

2. Final check

After completing the operations, turn on the power and open and close the tray once to check the gap.

DIAGNOSTICS OF OPTICAL PICKUP AND REPLACING FE MAIN P.W.B AND BD MECHANISM UNIT ASSY ⚠4

Make failure diagnostics of the Optical Pickup as follows.

①If the laser drive current (Iop) becomes more than ±12[mA] of the initial value, the Optical Pickup should be replaced. The laser drive current initial value is checked by "Iop checked Method" of next page.

②Load five times of following disc again and playing it for one minute. It becomes the aim of the Optical Pickup exchange when it cannot play.

BD-RE	ABD-RE540W(made by ALMEDIO)

In case of replacing the Pickup, change the whole part of the FE Main P.W.B and BD Mechanism Unit Assy. No mechanical adjustment is necessary after the replacement.

Laser drive current initial value:

CD :

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2	1	–	m	m	m	m	–	n	n	n	n

DVD :

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2	2	–	m	m	m	m	–	n	n	n	n

BD(SL) :

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2	3	–	m	m	m	m	–	n	n	n	n

BD(DL) :

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2	4	–	m	m	m	m	–	n	n	n	n

①Check the laser drive current value

Disc no read, unsteady playback, etc.

↓

Laser drive current (Iop) check.
HF wave form check.
(Refer to WAVE FORMS)

↓ Current value of the BD, DVD or CD IOP is ± 12[mA] or more the initial value.

FE Main P.W.B and BD Mechanism Unit Assy replacing.

②Check the playability disc

Disc no read, unsteady playback, etc.

↓

ABD-RE540W disc playability check.
(Load five times of following disc)

↓ Disc cannot play.

FE Main P.W.B and BD Mechanism Unit Assy replacing.

1. Iop checked Method

Select the laser ON/OFF(CD/DVD/BD)mode of the test mode, and check the IOP value of CD laser, DVD laser or BD laser.
(See page 21 for test mode.)

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2		L	a	s	e	r	O	n	O	f	f

DVD laser current check

Press the ⏮ or ⏭ button to display the laser current value, and then select [X].
Check the current value of Iop (nnnn)

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2	X	-	n	n	n	n	-	n	n	n	n

(X=1 : CD laser mode, 2 : DVD laser mode, 3 : BD(SL) laser mode, 4 : BD(DL) laser mode)
(nn.nn[mA] : Current value)

2. To clear the accumulated laser on time

Press the ▶ button while the accumulated laser on time is displayed ("TC1, "TC2", "TC3") until " ＊ " appears at the fourth position. Press the ⏮ or ⏭ button to select "TC4". If the ▶ button is pressed while "TC1" is displayed, the accumulated laser on time of CD, DVD and BD is cleared

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	C	4	*	-	-	-	-	-	-	-	-	-

When "TC1", "TC2" or "TC3" is selected with the ⏮ or ⏭ button, "mmmmmm" is displayed as "0" so you can check.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	C	Y	-	-	-	m	m	m	m	m	m	h

(Y=1 : CD, 2 : DVD , 3 : BD, mmmmmm : Time(Fractions of hours are counted up one hour on the display.)

SERVICE MODE

1. Heat run mode

1.1. preparation

(1) Equipment used : Heat run disc (This operation may not work with any discs other than the heat run discs listed below.)
CD : CD TEST DISC (TCD-HR01)
DVD : DVD TEST DISC (TDV-HR01)
BD : BD TEST DISC (TBD-HR01)

(2) Unit setting : No spec other than the following procedure.

1.2. procedure

(1) Pressing the ⏏ and ► buttons simultaneously, plug the AC cord into a power outlet.
When the heat run mode is set, the "►" and "❚❚" indicators light.

(2) Press the ⏏ button and open a tray.

(3) Set a disc to the tray and press the ► button. The "►" and "❚❚" indicators blink and heat run operation starts.
DVD : After playback title-1 and title-10 of the disc, the tray opens and closes automatically, then playback the title-1 and title-10 again.
CD/BD : The disc is played through once from title 1 through the last title, the tray opens and closes automatically, then the disc is played through again from title 1 through the last title.

(4) This heat run operation continues automatically or it stops caused by an error. In case of some error, the following error messages are displayed on the FL tube.

No.	Error contents	FL display
1	Tray Error	ERROR 01
2	Bad Disc	ERROR 02
3	Search Error	ERROR 03
4	Read Error	ERROR 04
5	Communications error	ERROR 05
6	Other (Front end error)	ERROR 06

2. Initial setting mode

2.1. preparation

(1) Equipment used: None

(2) Unit setting: No spec other than the following procedure.

2.2. procedure

※ Initialize the BD player when µcom, peripheral parts of µcom, or MAIN P.W.B. unit has been replaced in servicing.

※ All user setting will be lost and its factory setting will be restored when this initialization is made. Be sure to memorize your setting for restoring again after the initialization.

(1) Turn on the UD9004's power. "NO DISC" is displayed on the fluorescent tube.

(2) Press the UD9004's ►, ⏏ and SOUND MODE buttons simultaneously. "INITIALIZING" is displayed on the fluorescent tube. ⚠2

(3) The display on the fluorescent tube switches to "INITIALIZED", the "NO DISC" display reappears and initialization is completed.

3. µcom firm check mode

3.1. preparation

(1) Equipment used: None

(2) Unit setting: No spec other than the following procedure.

3.2. procedure

※ System µcom and other µcom firm check mode.
This mode is for displaying the status of each µcom employed.

(1) Pressing the ⏏ and ► buttons simultaneously, plug the AC cord into a power outlet.

(2) "NO DISC" is displayed on the fluorescent tube.

(3) Press remote contraller "3265".

(4) Each time the POP UP MENU button or Cursor buttons(▲ or ▼) on the remote control unit is pressed, µcom firm is displayed one after another.
Ex.: [Sys Ver000103, Sys Day090219, Sys GEN100000……]

4. Tray lock mode

4.1. preparation

(1) Equipment used: None

(2) Unit setting: No spec other than the following procedure.

4.2. procedure

[Setting]

(1) Pressing the ► and ❚❚ buttons for simultaneously, plug the AC cord into a power outlet.

(2) "TRAY LOCK" is displayed on the fluorescent tube.

※ Press the ► and ❚❚ buttons unitl "TRAY LOCK" appears. △3

[Cancel]

(1) Unplug the UD9004's AC cord from the power outlet.

(2) Pressing the ► and ❚❚ buttons simultaneously, plug the AC cord into a power outlet.

(3) "PLEASE WAIT" is displayed on the fluorescent tube and tray opening/closing is enabled.

※ Press the ► and ❚❚ buttons unitl "PLEASE WAIT" appears. △3

※ The tray lock mode is also canceled when the product is initialized.

5. Test mode

5.1. Entering the test mode

The test mode is entered by pressing the ⏏ and ■ buttons simultaneously, plug the AC cord into a power outlet. When the test mode is set, the "▶" and "❚❚" indicators light.

FL tube display when test mode entered

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
		T	E	S	T		M	O	D	E		

When the test mode is set, a color bar appears on the monitor.

5.2. Selecting the mode

・The following modes are available.

(1) Laser on/off (CD/DVD/BD) mode	:	T2
(2) Servo adjustment value display mode	:	T3
(3) Error rate (skew) measurement mode	:	T7
(4) Accumulated laser on time display mode	:	TC
(5) Track buffer output mode	:	TE
(6) Picking up No. display mode	:	TG
(7) Error log display mode	:	TH
(8) Test mode cancel	:	TI

① When the ▶▶❙ button is pressed after entering the test mode, the display switches in the order: "T2, T3, T7, TC, TE, TG, TH, TI, T2 …"

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2		L	a	s	e	r	O	n	O	f	f

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	3		S	e	r	v	o		A	d	j	.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	7		E	r	r	o	r		R	a	t	e

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	C		L	a	s	e	r	O	n	T	i	m

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	E		T	r	a	c	k		B	u	f	

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	G		O	P	U		N	u	m	b	e	r

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	H		E	r	r	o	r		L	o	g	

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	I		T	e	s	t		E	x	i	t	

② When the ❙◀◀ button is pressed, the display switches in the opposite order fromq above, starting from the current position (for example, if currently at "TA", it switches as follows: "T2, T3, T7, TC, TE, TG, TH, TI, T2 …").

5.3. About each mode

・With the mode selected, press the ▶ button to set that mode.

(1) Laser on/off (CD/DVD/BD) mode

Press the ⏮ or ⏭ button to select [X] and press the ▶ button to set it.
Laser on/off control is executed and the laser current is displayed.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2	X		m	m	m	m		n	n	n	n

(X=1 : CD laser mode, 2 : DVD laser mode, 3 : BD(SL) laser mode, 4 : BD(DL) laser mode)
(mm.mm[mA] : Stored data, nn.nn[mA] : Current value)

※ When the current value is more that ± 12.00[mA] of saved data, it becomes the pickup transducer's target. In this case, replace the mechanism unit.

If stored value is not

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	2	X							n	n	n	n

(X=1 : CD laser mode, 2 : DVD laser mode, 3 : BD(SL) laser mode, 4 : BD(DL) laser mode)
(nn.nn[mA] : Current value)

When the ■ button is pressed, the layer above the current layer is displayed. See "5.4 Stopping the mode" (page 25).

(2) Servo adjustment value display mode

Press the ⏮ or ⏭ button to select [XXX]. Refer to [Table 1 - Servo adjustment value display mode details] (page 25).

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	X	X	X									

(XXX : Servo adjustment value)

Press the ▶ button to set. The contents indicated on "Table 1: Servo adjustment value display mode details" (page 25) are displayed.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	X	X	X	m	m	m	m	m	m		n	n

(XXX : Selection mode, mmmmmm : Address(HEX), nn:Data(HEX))

The first time, the address specificiation position is the uppermost position (5th place). The address specificiation position moves downwards each time the ▶ button is pressed.
The address specificiation position flashes (at an interval of about 0.5 seconds). If the 1 button is pressed after moving to the lowermost position (10th place), the position moves to the uppermost position
Use the ⏮ or ⏭ button to change the display at the address specification position.

When the ■ button is pressed, the layer above the current layer is displayed. See "5.4 Stopping the mode" (page 25).

(3) Error rate measurement mode

Press the ⏮ or ⏭ button to select [YY] .
Refer to [Table 2 - Error rate details]. (page 26)

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	Y	Y	F	F	F	F	F	F	F	F	F	F

(X : measurement mode, F : Address and error rate (When not set, "F" is displayed.)

Press the ▶ button to begin error rate measurement. The address and error rate are displayed.
For a description of the displayed measurement results, see "Table 2: Error rate details" (page 26).

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	Y	Y	m	m	m	m	m	m	l	l	l	l

(YY : selection mode [71 to 94], m : address [PBA][HEX], l : error rate [COUNT/SEC] [HEX])

(Note) CD (4x-speed) : Renewal of data is carried out for every 300 frame.
Error rate of 75 frames is displayed.
DVD (2x-speed) : Renewal of data is carried out for every 80ECC block.
Error rate of 8ECC block is displayed.
BD (2x-speed) : Renewal of data is carried out for every 136LDC clusters block.
Error rate of 8LDC clusters block is displayed.

The mode chosen when selection mode was changed into the trace execution and the ▶ button was pushed is performed from the beginning.
When the ▶ button is pushed without changing selection mode, the mode under selection is performed from the beginning.
(If the ▶ button is pushed, the address corresponding to the chosen mode will be searched again.)

The pause mode is set after tracing is completed.

When the ■ button is pressed, the layer above the current layer is displayed. See "5.4 Stopping the mode" (page 25).

(4) Accumulated laser on time display mode

Press the ⏮ or ⏭ button to select [Y] and press the ▶ button to set it.
The accumulated laser on time is displayed.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	C	Y				m	m	m	m	m	m	h

④

(Y=1 : CD, 2 : DVD , 3 : BD, mmmmmm : Time(Fractions of hours are counted up one hour on the display.)

When the ■ button is pressed, the layer above the current layer is displayed. See "5.4 Stopping the mode" (page 25).

---To clear the accumulated laser on time---

Press the ▶ button while the accumulated laser on time is displayed ("TC1, "TC2", "TC3") until " ＊ " appears at the fourth position.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	B	Y	＊				m	m	m	m	m	m

Press the ⏮ or ⏭ button to select "TC4"

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	C	4	＊									

If the ▶ button is pressed while "TC4" is displayed, the accumulated laser on time of CD, DVD and BD is cleared.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	C	1				0	0	0	0	0	0	h

When "TC1", "TC2" or "TC3" is selected with the ⏮ or ⏭ button, "mmmmmm" is displayed as "0" so you can check.

(5) Track buffer output mode

Press the I◄◄ or ►►I button to select "Y" and switch the track buffer output.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	E	Y	T	r	a	c	k		B	u	f	f

(Y=1 : Track buffer being output, 0 : Track buffer output off)

When the ■ button is pressed, the layer above the current layer is displayed. See "5.4 Stopping the mode" (page 25).

(6) Picking up No. display mode

Press the I◄◄ or ►►I button to switch to the pickup number display.
The pickup number is a 14-digit number, so it is displayed in two sections.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	G	X		Y	Y	Y	Y	Y	Y	Y		

(X (display position) = 1 : Lower digits, 2 : Upper digits. YYYYYYY: Pickup number)

When the ■ button is pressed, the layer above the current layer is displayed. See "5.4 Stopping the mode" (page 25).

(7) Error log display mode

Press the I◄◄ or ►►I button to switch to the error log display.
For Error log No. and description of the displayed measurement results, see "Table 3: Error log details" (page 28).

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
n	T	H	X									

(n : Error information No.(1 ～ 5), X : Error log No.)

Display when there is no error

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
n	T	H	1		N	o		E	r	r	o	r

When the ■ button is pressed, the layer above the current layer is displayed. See "5.4 Stopping the mode" (page 25).

(8) Test mode cancel

A confirmation message is displayed. Press the ► button to set, canceling the test mode.

FL Display (The display part of 13 digits)												
1	2	3	4	5	6	7	8	9	10	11	12	13
T	I	1		R	e	a	1	1	y	?		

When the ■ button is pressed, the layer above the current layer is displayed. See "5.4 Stopping the mode" (page 25).

5.4. Stopping the mode

When the ■ button is pressed, the layer above the current layer is displayed. The relationship between the different modes and the display of the different layers is shown on the table below.

Mode	1 layer	2 layer	3 layer
Laser on/off (CD/DVD/BD) mode	T2 LaserOnOff	T2X mmmm nnnn	Non
Servo adjustment value display mode	T3 Servo Adj.	TXXX	TXXXmmmmmm nn
Error rate (skew) measurement mode	T7 Error Rate	TYYFFFFFFFFFF	TYYmmmmmmllll
Accumulated laser on time display mode	TC LaserOnTim	TCY mmmmmmh	TCY* mmmmmmh TC4*
Track buffer output mode	TE Track Buf	TEYTrack Buff	Non
Picking up No. display mode	TG OPU Number	TGX YYYYYYY	Non
Error log display mode	TH Error Log	nTHX nTH1 No Error	nTHX dddddd nTHAyyy dddd
Test mode cancel	TI Test Exit	TI1 Really?	Non

5.5. About the OPEN/CLOSE (5)button

Even during the test mode, the tray is opened and closed when the ⏏ button is pressed.

5.6. Test mode detailed table

Table 1: Servo adjustment value display mode details

No	XXX	Name	Address range	Meaning
0	T30	BUF_ID_SDRAM	0x000000 ~ 0x3FFFFF	SDRAM
1	T31	BUF_ID_MPU_ALL	0x000000 ~ 0xBEFF3F	MPU(Abs Access)
2	T32	BUF_ID_MPU_RMCR	0x000000 ~ 0x00FFFF	ROMCOR
3	T33	BUF_ID_MPU_SYSCFG	0x000000 ~ 0x000FFF	SystemConfigration
4	T34	BUF_ID_MPU_DMAC	0x000000 ~ 0x0004FF	DMAC
5	T35A	BUF_ID_MPU_ITIM0	0x000000 ~ 0x0000FF	ITIM 0
6	T35B	BUF_ID_MPU_ITIM1	0x000000 ~ 0x0000FF	ITIM 1
7	T35C	BUF_ID_MPU_ITIM2	0x000000 ~ 0x0000FF	ITIM 2
8	T35D	BUF_ID_MPU_ITIM3	0x000000 ~ 0x0000FF	ITIM 3
9	T35E	BUF_ID_MPU_ITIM4	0x000000 ~ 0x0000FF	ITIM 4
10	T35F	BUF_ID_MPU_ITIM5	0x000000 ~ 0x0000FF	ITIM 5
11	T36	BUF_ID_MPU_RSV2	0x000000 ~ 0x0079FF	Reserved
12	T37	BUF_ID_MPU_WDT	0x000000 ~ 0x000FFF	WDT
13	T38	BUF_ID_MPU_UART0	0x000000 ~ 0x0000FF	UART 0
14	T39	BUF_ID_MPU_UART1	0x000000 ~ 0x0000FF	UART 1
15	T40	BUF_ID_MPU_CSIO0	0x000000 ~ 0x0000FF	CSIO 0
16	T41	BUF_ID_MPU_CSIO1	0x000000 ~ 0x0000FF	CSIO 1
17	T42	BUF_ID_MPU_GPIO0	0x000000 ~ 0x0000FF	GPIO 0
18	T43	BUF_ID_MPU_GPIO1	0x000000 ~ 0x0000FF	GPIO 1
19	T44	BUF_ID_MPU_GPIO2	0x000000 ~ 0x0000FF	GPIO 2
20	T45	BUF_ID_MPU_RSV5	0x000000 ~ 0x00BCFF	Reserved
21	T46	BUF_ID_MPU_HEXBIU	0x000000 ~ 0x000FFF	HEXBIU
22	T47	BUF_ID_MPU_HCSC	0x000000 ~ 0x000FFF	HCSC
23	T48	BUF_ID_MPU_RSV6	0x000000 ~ 0x7DDFFF	Reserved
24	T49	BUF_ID_MPU_RSV7	0x000000 ~ 0x3DFEFF	Reserved
25	T50	BUF_ID_MPU_INT	0x000000 ~ 0x00003F	INT
26	T51	BUF_ID_IRAM	0x000000 ~ 0x003FFF	IRAM(internal SRAM))
27	T52	BUF_ID_DSP	0x000000 ~ 0x001FFF	DSP Register
28	T53	BUF_ID_AFE	0x000000 ~ 0x0000FF	AFE Register
29	T54	BUF_ID_SVO_ALL	0x000000 ~ 0x001FFF	SVO REG ABS ACCESS
30	T55	BUF_ID_SVO_REG	0x000000 ~ 0x0007FF	SVERVO REG
31	T56	BUF_ID_SVO_SVRAM	0x000000 ~ 0x0005FF	SVRAM

No	XXX	Name	Address range	Meaning
32	T57A	BUF_ID_SVO_CRAM0	0x000000 ～ 0x0001FF	CRAM0
33	T57B	BUF_ID_SVO_CRAM1	0x000000 ～ 0x0001FF	CRAM1
34	T57C	BUF_ID_SVO_CRAM2	0x000000 ～ 0x0001FF	CRAM2
35	T57D	BUF_ID_SVO_CRAM3	0x000000 ～ 0x0001FF	CRAM3
36	T58A	BUF_ID_SVO_ZRAM0	0x000000 ～ 0x0001FF	ZRAM0
37	T58B	BUF_ID_SVO_ZRAM1	0x000000 ～ 0x0001FF	ZRAM1
38	T58C	BUF_ID_SVO_ZRAM2	0x000000 ～ 0x0001FF	ZRAM2
39	T58D	BUF_ID_SVO_ZRAM3	0x000000 ～ 0x0001FF	ZRAM3
40	T59	BUF_ID_EPRM	0x000000 ～ 0x000FFF	EEPROM
41	T60	BUF_ID_PUCONT_LDD	0x000000 ～ 0x000007	LDD
42	T61	BUF_ID_SVRESULT	0x000000 ～ 0x0002C3	SvResult
43	T62	BUF_ID_LD_TIME	0x000000 ～ 0x00000D	LD ON Time Integrated value
44	T63	BUF_ID_IOP	0x000000 ～ 0x000007	IOP(Stored value)

Table 2: Error rate details

YY	Measurement position	Error rate display details for each media type			Remarks
		BD	DVD	CD	
71	The inner circumference of 1-layer	BIS error detection signed number	It is invalid.	It is invalid.	When this is selected for DVD or CD, it shifts to YY=73.
72	The inner circumference of 1-layer	BIS error uncorrectable signed numbe	It is invalid.	It is invalid.	When this is selected for DVD or CD, it shifts to YY=73.
73	The inner circumference of 1-layer	LDC error detection signed number	PI error detection number	C1 error detection number	
74	The inner circumference of 1-layer	LDC error uncorrectable signed numbe	PO uncorrectable error number	C2 uncorrectable error number	
75	The central circumference of 1-layer	BIS error detection signed number	It is invalid.	It is invalid.	When this is selected for DVD or CD, it shifts to YY=77.
76	The central circumference of 1-layer	BIS error uncorrectable signed numbe	It is invalid.	It is invalid.	When this is selected for DVD or CD, it shifts to YY=77.
77	The central circumference of 1-layer	LDC error detection signed number	PI error detection number	C1 error detection number	
78	The central circumference of 1-layer	LDC error uncorrectable signed numbe	PO uncorrectable error number	C2 uncorrectable error number	
79	The outer circumference of 1-layer	BIS error detection signed number	It is invalid.	It is invalid.	When this is selected for DVD or CD, it shifts to YY=81.
80	The outer circumference of 1-layer	BIS error uncorrectable signed numbe	It is invalid.	It is invalid.	When this is selected for DVD or CD, it shifts to YY=81.
81	The outer circumference of 1-layer	LDC error detection signed number	PI error detection number	C1 error detection number	
82	The outer circumference of 1-layer	LDC error uncorrectable signed numbe	PO uncorrectable error number	C2 uncorrectable error number	

YY	Measurement position	Error rate display details for each media type			Remarks
		BD	DVD	CD	
83	The inner circumference of 2-layer	BIS error detection signed number	It is invalid.	It is invalid.	When this is selected for 2-layer DVD, it shifts to YY=85. When this is selected for 1-layer DVD or CD, it shifts to YY=73.
84	The inner circumference of 2-layer	BIS error uncorrectable signed number	It is invalid.	It is invalid.	When this is selected for DVD 2-layer, it shifts to YY=85. When this is selected for DVD 1-layer or CD, it shifts to YY=73.
85	The inner circumference of 2-layer	LDC error detection signed number	PI error detection number	It is invalid.	When this is selected for 1-layer DVD or CD, it shifts to YY=73.
86	The inner circumference of 2-layer	LDC error uncorrectable signed numbe	PO uncorrectable error number	It is invalid.	When this is selected for 1-layer DVD or CD, it shifts to YY=73.
87	The central circumference of 2-layer	BIS error detection signed number	It is invalid.	It is invalid.	When this is selected for DVD 2-layer, it shifts to YY=89.When this is selected for DVD 1-layer or CD, it shifts to YY=77.
88	The central circumference of 2-layer	BIS error uncorrectable signed numbe	It is invalid.	It is invalid.	When this is selected for DVD 2-layer, it shifts to YY=89. When this is selected for DVD 1-layer or CD, it shifts to YY=77.
89	The central circumference of 2-layer	LDC error detection signed number	PI error detection number	It is invalid.	When this is selected for DVD 1-layer or CD, it shifts to YY=77.
90	The central circumference of 2-layer	LDC error uncorrectable signed numbe	PO uncorrectable error number	It is invalid.	When this is selected for DVD 1-layer or CD, it shifts to YY=77.
91	The outer circumference of 1-layer	BIS error detection signed number	It is invalid.	It is invalid.	When this is selected for DVD 2-layer, it shifts to YY=93. When this is selected for DVD 1-layer or CD, it shifts to YY=81.
92	The outer circumference of 1-layer	BIS error uncorrectable signed numbe	It is invalid.	It is invalid.	When this is selected for DVD 2-layer, it shifts to YY=93. When this is selected for DVD 1-layer or CD, it shifts to YY=81.
93	The outer circumference of 1-layer	LDC error detection signed number	PI error detection number	It is invalid.	When this is selected for DVD 1-layer or CD, it shifts to YY=81.
94	The outer circumference of 1-layer	LDC error uncorrectable signed numbe	PO uncorrectable error number	It is invalid.	When this is selected for DVD 1-layer or CD, it shifts to YY=81.

* The inner circumference of the layer refers to the physical inner circumference for DVD parallel, the physical outer circumference for the opposite case.

* The inner circumference of the layer refers to the physical outer circumference for DVD parallel, the physical inner circumference for the opposite case.

Table 3: Error log details

Error log No.	Contents (Error log overall layout)	Remarks
1	LD On Time (4Byte)	
2	Error type (2Byte)	See "Table 3-1: Error type details"
3 (31 to 34 displayed in 4-byte units)	Reserve (16Byte)	
4	Media type (2Byte)	See "Table 3-2: Media type details"
5	Reserve (4Byte)	
6	Reserve (4Byte)	
7	Reserve (2Byte)	
8	HyBrid Disc layer (2Byte)	See "Table 3-3: HyBrid Disc current layer details"
9 (91 to 92 displayed in 7-digit units) (Matched to TG pickup number display)	PU# (16Byte)	
A (A000 to A161 displayed in 2-digit units)	Reserve (708Byte)	
B (B1 to B3 displayed in 4-digit units)	Reserve (11Byte)	
C	Reserve (1Byte)	
D (D1 to D3 displayed in 4-digit units)	Reserve (12Byte)	

Table 3-1: Error type details

Error type	Error code
NoError	0x0000
Focus does not turn on.	0x0001
Tracking does not turn on.	0x0002
CLV does not turn on.	0x0003
ID cannot be read.	0x0004
Loader error	0x0005
Thread error	0x0006
Expander error	0x0007
Other error	0x0008
Error disc (Failure to recognition of disc)	0x0009
Seek error	0x0010
Lead error	0x0020
Other	Reserved

Table 3-2: Media type details

Media type	Media code
DVD-ROM	0x0001
DVD-R	0x0002
DVD-RW	0x0003
DVD-PLUS-R	0x0004
DVD-PLUS-RW	0x0005
DVD-ROM DL	0x0006
DVD+R DL	0x0007
DVD-R DL	0x0008
DVD+RW DL	0x0009
DVD-RW DL	0x000A
CD-ROM	0x000B
CD-R	0x000C
CD-RW	0x000D
BD-RE SL	0x000E
BD-RE DL	0x000F
BD-R SL	0x0010
BD-R DL	0x0011
BD-R SL LTH	0x0012
BD-ROM SL	0x0013
BD-ROM DL	0x0014
BD-Hybrid	0x0015
SACD-Hybrid	0x0016
SACD DL	0x0017
SACD SL	0x0018
DVD-Hybrid	0v0019
Unknown	0xFFFF
Other	Reserved

Table 3-3: HyBrid Disc current layer details

HyBrid Disc current layer	Current layer code
SACD layer	0x0000
CD layer	0x0001
DVD layer	0x0002
BD layer	0x0003
Other	Reserved

VERSION UPGRADE PROCEDURE OF FIRMWARE

You can update by downloading the latest firmware from the Internet.
To update the IP ROM, refer to "Updating the IP ROM" on page 30.

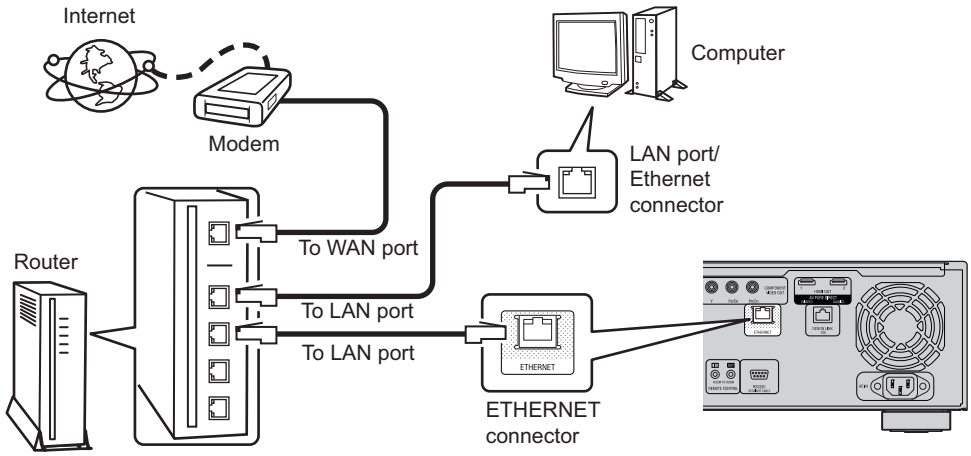
1. Update from the Internet

1.1. Connecting to the Network

(1) System Requirement

- Internet Connection by Broadband Circuit
- Modem
- Router
- Ethernet cable (CAT-5 or greater recommended)

(2) Setting



1.2. Check for Update and Update

Check if the latest firmware exists. You can also check approximately how long it will take to complete an update.

(1) Press the SETUP button on the remote control to display the GUI menu.

(2) Use the cursor buttons to select "Other settings" → "Firmware update" → "Update check".

(3) Press the ENTER buttom.

- The latest version of the firmware uploaded to the web is displayed.
- If the latest firmware version is on the web, proceed to (4).
- If the latest firmware is already installed, press the SETUP button to close the menu.

(4) Use the cursor buttons to select "Update", then press the ENTER button.

- During update, the power indicator lights red and the GUI screenis shut down. And a rough remaining time is indicated on the display.
- When updating is complete the power indicator turns off and normal status is resumed.

(5) Press the SETUP button to close the menu.

--- Cautions on Firmware Update ---

- In order to use these functions, you must have the correct system requirements and settings for a broadband Internet connection.
- Do not turn off the power until updating is completed.
- Even with a broadband connection to the Internet, approximately about 1 hour is required for the updating procedure to be completed.
  Once updating starts, normal operations on the UD9004 cannot be performed until updating is completed. Also, setting items of the GUI menu of UD9004 or setting items of the image adjustment may be initialized.
  Make a note of the settings before updating, and set them again after updating.

2. Update of the IP ROM

NOTE : When the firmware is updated, the UD9004's settings and picture adjustments may be reset. Make a note of the settings before updating, and set them again after updating.

2.1. Installation of application for IP ROM update

Prepare a computer connected to the Internet.

(1) From the SDI's UD9004 screen, download the following application software:

- Soft : silicon developer toolkit

2.2. Preparations (proceeding to connections and the product mode)

(1) Connect the set and computer using an RS-232C cable (straight type).

(2) With no disc loaded in the set, plug the AC cord into the power outlet while pressing the SD/DISC and ▮▮ buttons on the main unit simultaneously.

•The product mode is set and the "HD" indicator lights.
•While in the product mode, no video signals are output from the HDMI terminal.

(3) After "NO DISC" appears on the FL tube, press the SD/DISC button to display "IP/S Update".

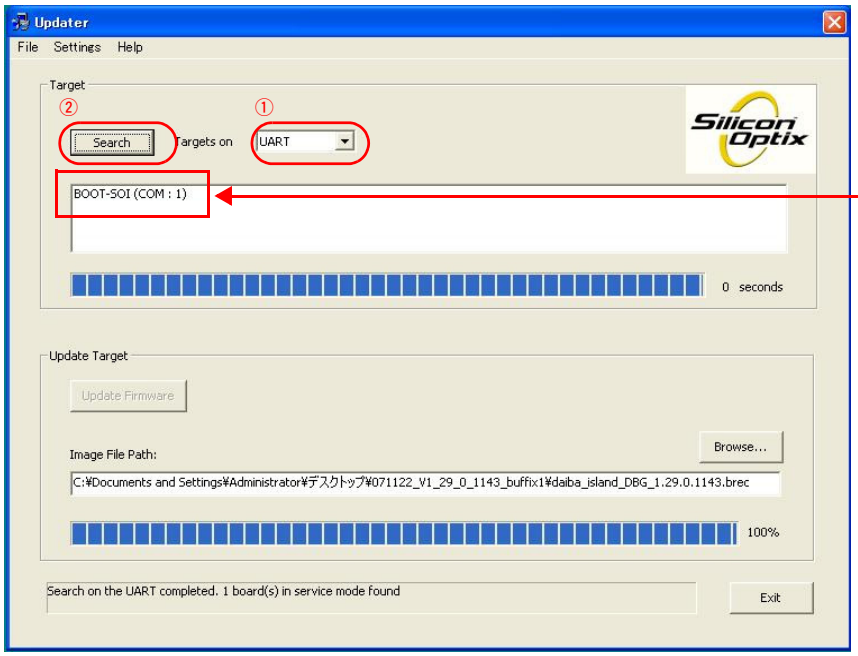
•The display switches as shown below each time the SD/DISC button is pressed.
"SD Mode" → "F/E Update" → "IP/S Update" → "Disc Mode" → "SD Mode"

(4) Press the ► buttom/
"IP/S Writing" is displayed on the FL tube.

2.3. Update

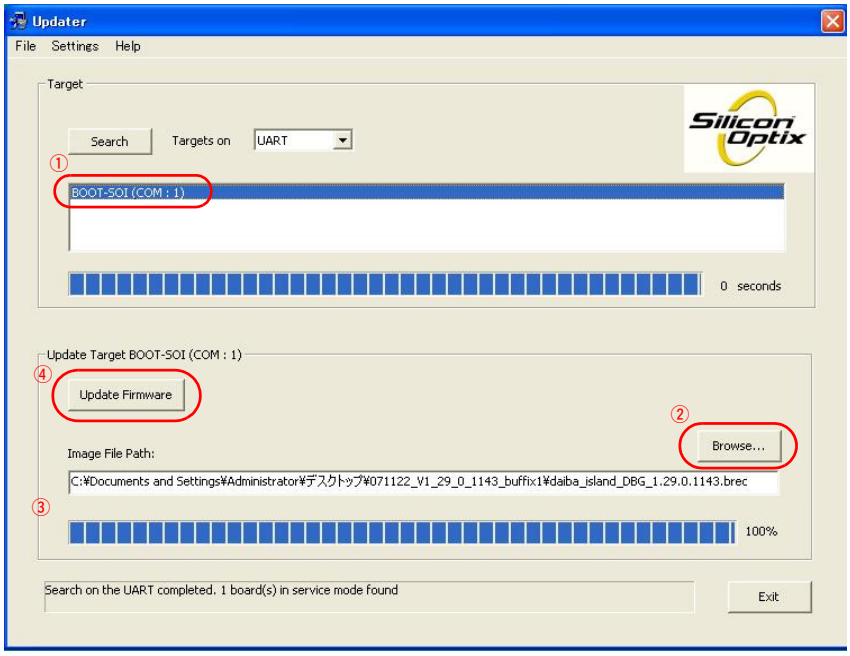
(1) From the Windows Start menu, open "All Programs" → "Silicon Optix" → "Developers ToolKit" → "Updater" → "Updater.exe".

(2) At "Targets on" (①), select "UART", then click the "Search" button(②).

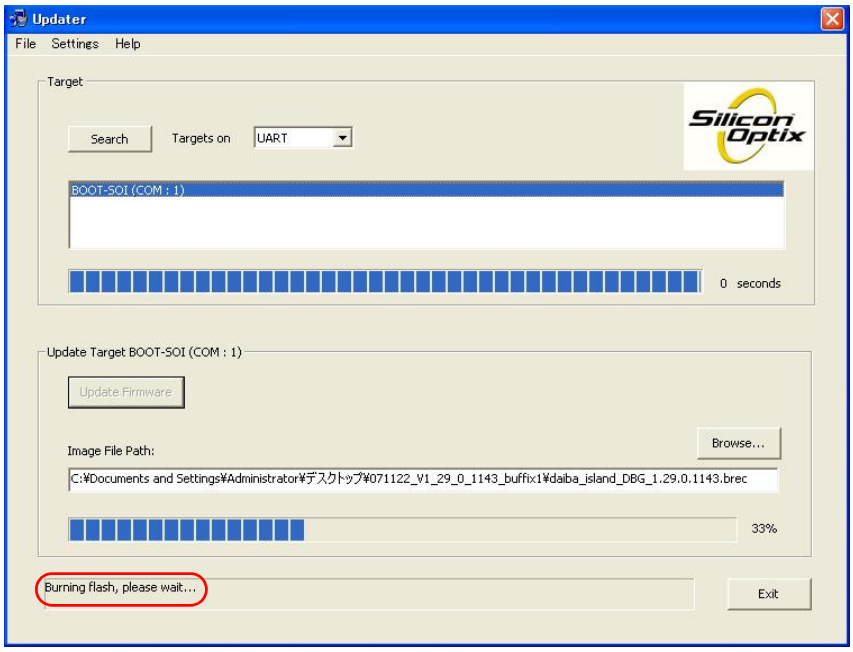


" BOOT-SOI(COM:1)" is displayed if the target is recognized normally.

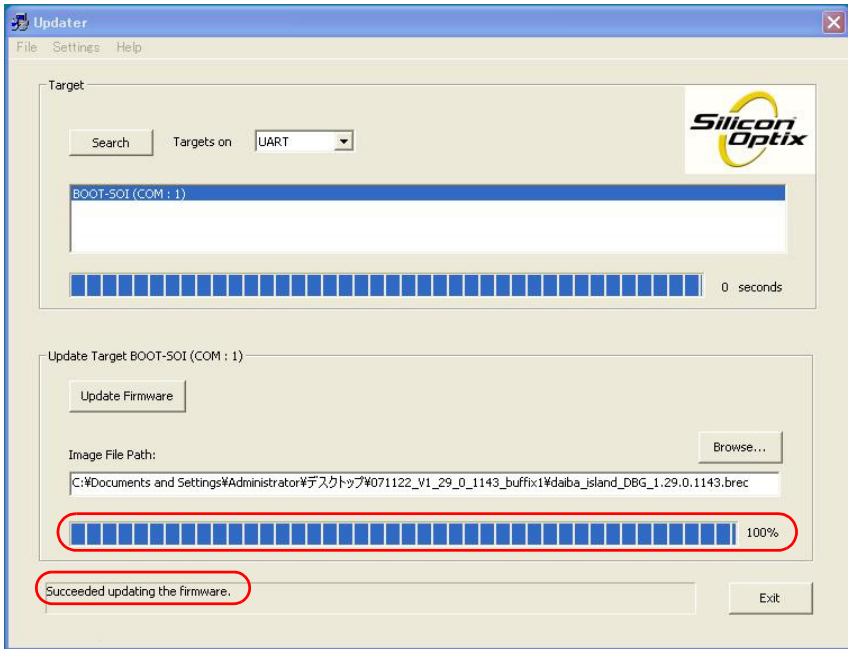
(3) After selecting the " BOOT-SOI(COM:1)" item, click the "Browse" button to select the IP ROM to be updated. Check the selected file in the "Image File Path window" window, then click the "Update Firmware" button to begin updating.



(4) During update, the update status is indicated " Burning flash, please wait...". (Approximately 9 minutes are required for updating to be completed.)



(5) Once the update status reaches 100%, "Succeeded updating the firmware" is displayed and updating is completed.



(6) Once updating is completed, unplug the AC cord.

(7) Reconnect the AC cord to the outlet, wait 3 minutes, then unplug it.
At this time, no video signals are output from the HDMI terminal, even if the power is turned on.

2.4. Version check

(1) With no disc loaded in the set, plug the AC cord into the power outlet while pressing the ⏏ and ► buttons on the main unit simultaneously.

•"NO DISC" is displayed on the FL tube.

(2) Press remote contraller "3265".

(3) Press the Cursor buttons(▲or▼) on the remote control unit, check the "IP Ver XXXXXX" is displayed on the FL tube.

•XXXXXXX : Version of updated IP ROM

2.5. Service check

Play a Blu-ray disc (1080p/24) and check that the video output operates normally.

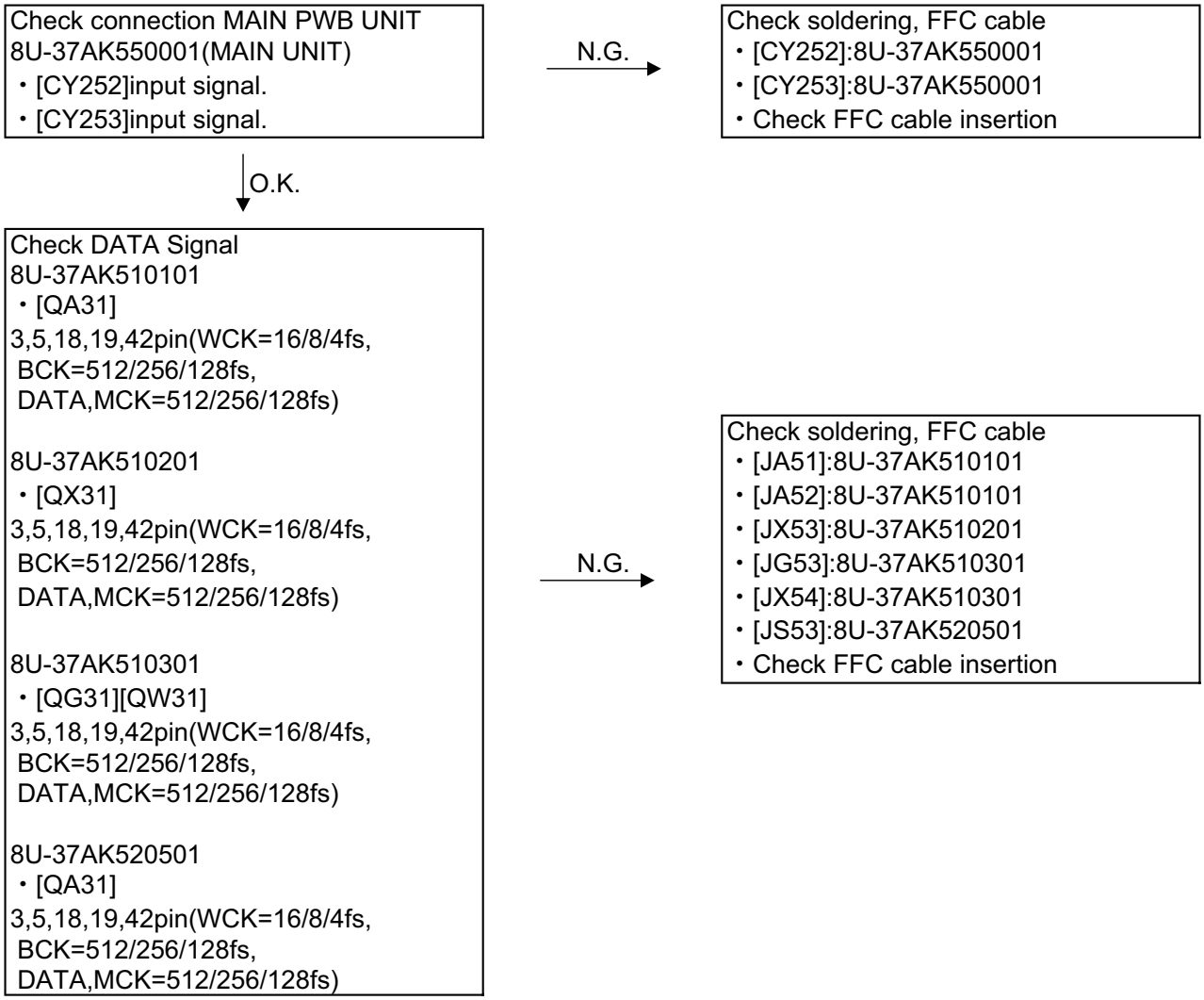
•Connect the TV and UD9004 with an HDMI cable.
•There is no need to set the HDMI output resolution in order to check.

--- Cautions on Firmware Update ---

•When the firmware is updated, the UD9004's settings and picture adjustments may be reset. Make a note of the settings before updating, and set them again after updating.
•Do not unplug the RS-232C cable or set the power to standby during updating.
•Normal operations are not possible during updating.

TROUBLE SHOOTING

1. 8U-37AK510101, 8U-37AK510201, 8U-37AK510301, 8U-37AK520501



2. 8U-37AK53000 (POWER UNIT)

2.1. The power cannot be turned on.

Check FUSE Condition
- FUSE [F101] OPEN?

N.G. →
Defect of primary circuit component.
- [D101] (RBV-406H)
- [IC103] (STR-Y6456 (100V system)) (STR-Y6476 (200V system))
- [T101] (SW_TRANS)

and Other Circuits

↓ **O.K.**

Check +3.3V_NSW output
- Voltage Check

3.3V DC (non-switched) Voltage is O.K.?
[CX151] 13pin output

N.G. →
Check Parts and Soldering.
- [IC111] (BA33B00FP)
- [D113 ～ D116] (RB521S)
- [T102] (POWER_TRANS)

and Other Circuits

↓ **O.K.**

Check +5V output
- Voltage Check

5V DC (switched) Voltage is O.K.?
[CX151] 14pin output

N.G. →
Check Parts and Soldering.
- [IC111] (BA33B00FP)
- [D113 ～ D116] (RB521S)
- [T102] (POWER_TRANS)

and Other Circuits

↓ **O.K.**

Check CLK_50/60 output
- Voltage Check

[CX151] 12pin output
(AC50Hz 100Hz)
(AC60Hz 120Hz)

N.G. →
Check Parts and Soldering.
- [T102] (POWER_TRANS)
- [D108,D109] (RB521S)
- [TR107] (DTC114E)

and Other Circuits

↓ **O.K.**

ON/STANDBY Input
- Voltage Check

[CX151] 4pin output
※Press "ON/STANDBY" to check.

Normally +3.3V is output
※OK if +3.3V is output even momentarily.

N.G. →
Check Parts and Soldering.
- [CX151] (15P-PH)

8U-37AK55000
- [IC853] (R5F364VDNFB)

and Other Circuits

↓ **O.K.**

Check Power Relay
- Is [RL101] switched?

N.G. →
Check Parts and Soldering.
- [TR103] (DTC114E)
- [TR102] (KTC3199)

and Other Circuits

↓ **O.K.**

Check +24V output
- Voltage Check

24V DC (switched) Voltage is O.K.?
[C160] L102 side output

N.G. →
Check Parts and Soldering.
- [IC103] (STR-Y6456 (100V system)) (STR-Y6476 (200V system))
- [T101] (SW_TRANS)
- [IC108] (PC123-Y-22)
- [ZD102] (UDZS8.2B)
- [ZD103] (TL431ACLP)
- [D111] (FME-210B)
- [D104] (SJPX-F2)

and Other Circuits

↓ **O.K.**

Check +12V output
• Voltage Check
+12V DC (switched) Voltage is O.K.?
[L104] C200 side output

N.G. →

Check Parts and Soldering.
• [IC107] (SI-8005Q-TL)
and Other Circuits

↓ **O.K.**

Check +6V output
• Voltage Check
6V DC (switched) Voltage is O.K.?
[CY051] 1pin output

N.G. →

Check Parts and Soldering.
• [IC101] (SI-8005Q-TL)
and Other Circuits

↓ **O.K.**

Check +5V output
• Voltage Check
5V DC (switched) Voltage is O.K.?
[CY051] 2pin output

N.G. →

Check Parts and Soldering.
• [IC104] (MAX8577UEB)
• [TR105,TR106] (TPCA8012-H)
and Other Circuits

↓ **O.K.**

Is the rear side fan turning?

N.G. →

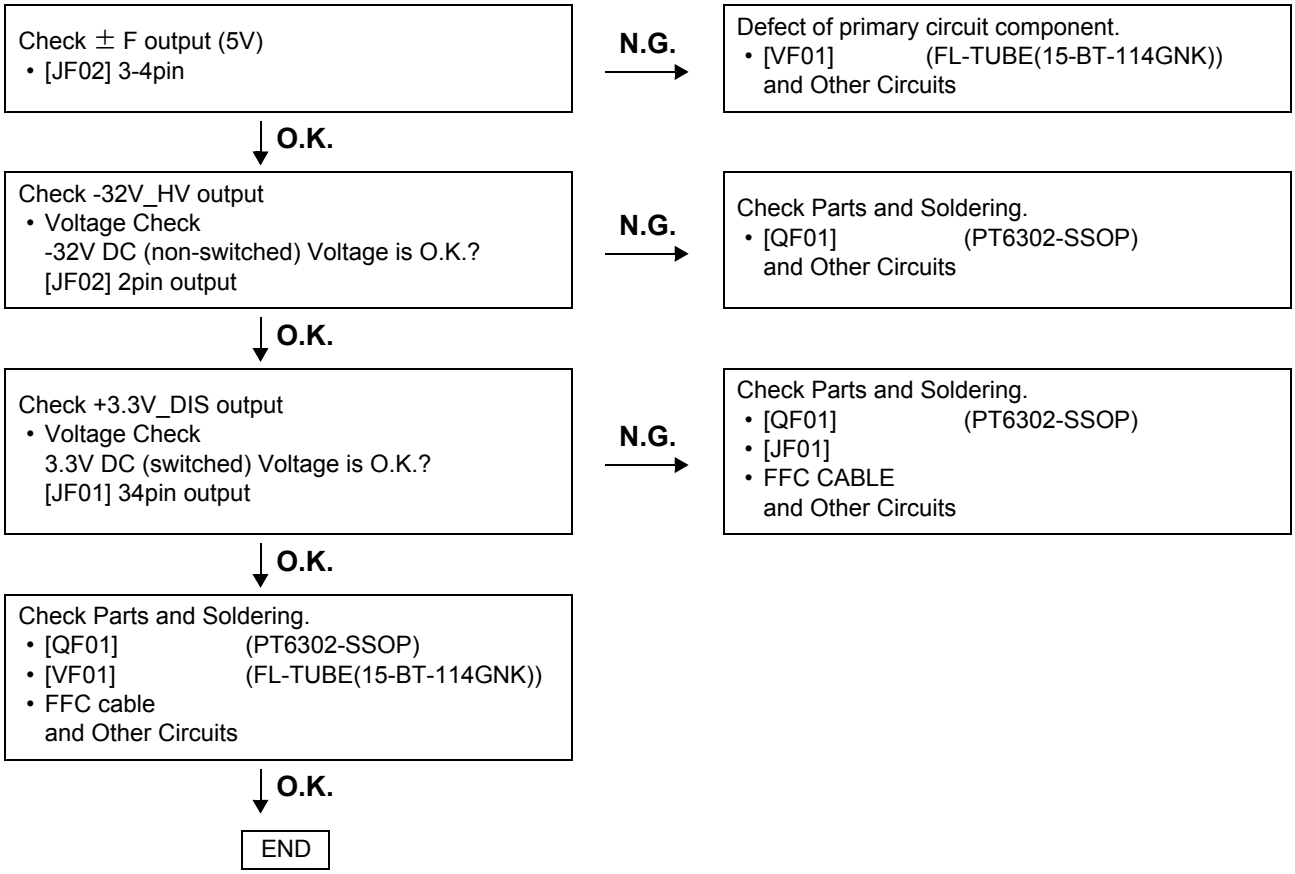
Check Parts and Soldering.
• [IC104] (MAX8577UEB)
• [TR105,TR106] (TPCA8012-H)
8U-37AK55000
• [IC853] (R5F364VDNFB)
and Other Circuits

↓ **O.K.**

END

3. 8U-37AK510201(DISPLAY UNIT)

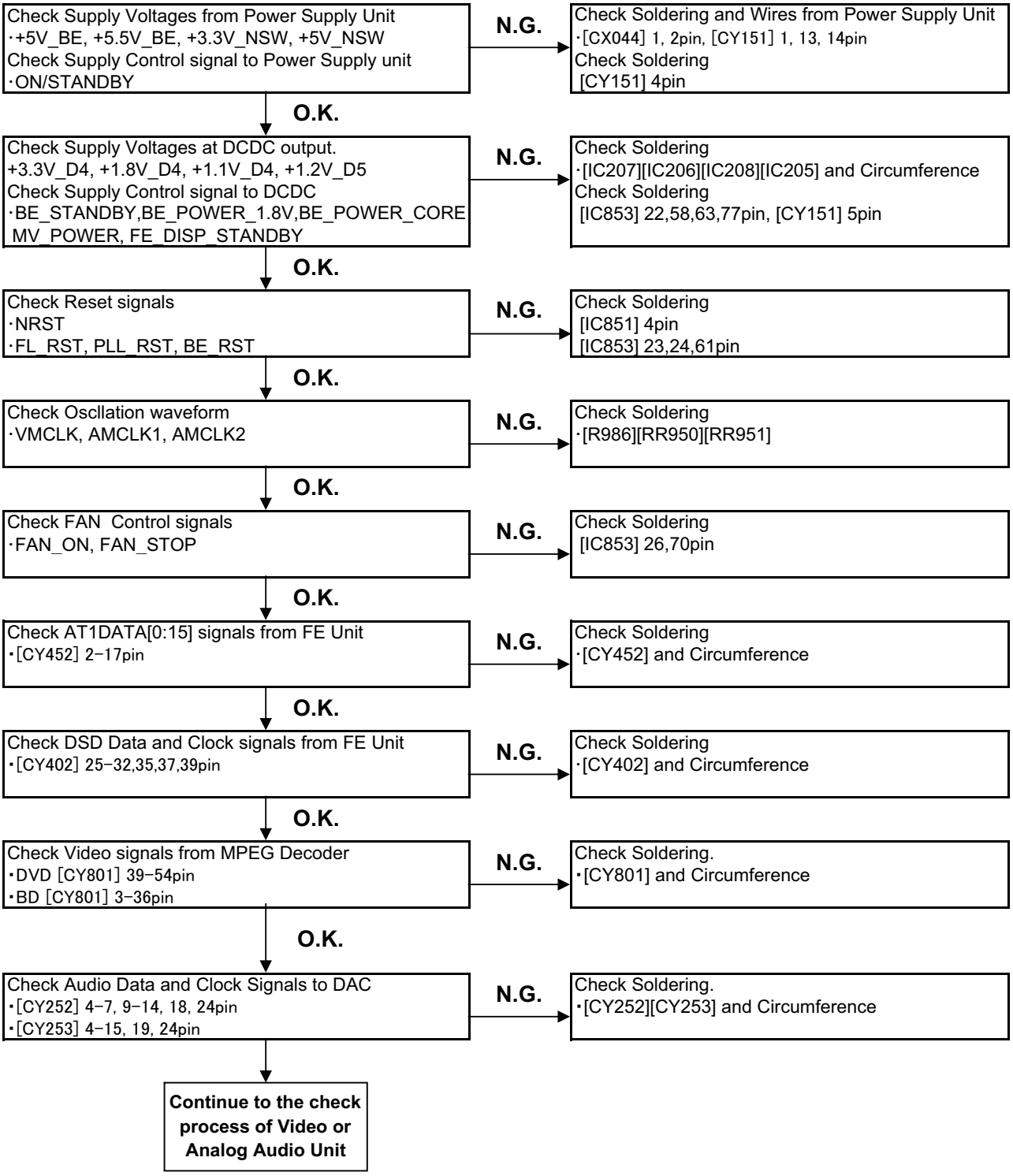
3.1. FL TUBE dosen't light



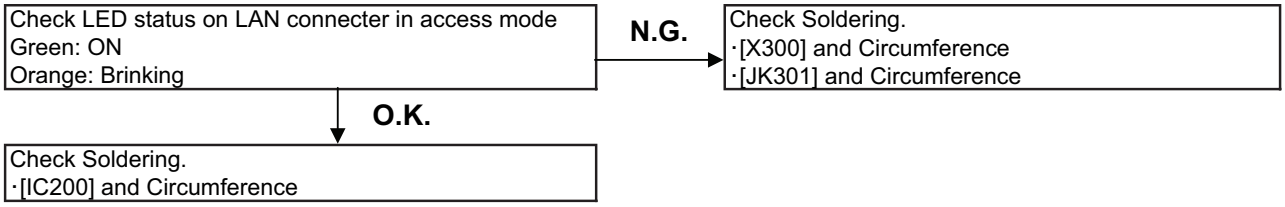
4. 8U-37AK55000 (MAIN UNIT)

4.1. No System Power up or Loading

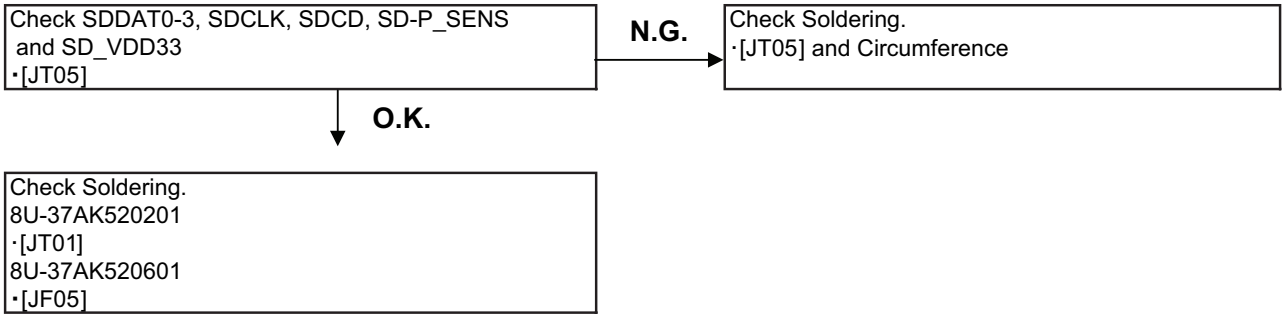
No Video or Audio output



4.2. No Ether-net Operation



4.3. No SD Card Operation



5. 8U-310002 (VIDEO UNIT)

5.1. Video output does not be outputted.

Check Power Supply Voltages.
- +5V_DV, +6V_HDMI
- +6V_AV

N.G. → Check Soldering.
- [CX051] 2-3pin, 1pin
- [CX031] 1pin
- Check cable insertion.

↓ **O.K.**

Check Control Signal for Power Supply.
[CX404]
- 3pin(MVPOWER): High 3.3V

N.G. → Check FFC cable insertion.
Continue to the check process of 8U-37AK55000(Main Unit)

↓ **O.K.**

Check Power Supply Voltages.
- +3.3V_DV, +1.8V_DV, +1.0V_DV
- +1.5V_IPC, +2.5V_IPC, +1.25V_VTT
- +5V_HDMI
- +1.8V_DDR2, +0.9V_VTT
- +5V_AV, +3.3V_AV, +1.8V_AV

N.G. → Check Soldering.
- [IC104][IC105][IC106]
- [IC215][IC214][IC210]
- [IC503]
- [IC701][IC702]
- [IC805][IC804][IC803] and Circumference

↓ **O.K.**

Check control signal from Main Unit (8U-310002)
[CX801]
- 55pin(/RLT_RST): High, 3.3V
- 59pin(/V_RST) : High, 3.3V
- 67pin(ABT_SCL) and 71pin(ABT_SDA) : I2C Control, 0/3.3V, 100 ～ 400kHz
- 68pin(/RLT_SCL) and 72pin(RLT_SDA) : I2C Control, 0/3.3V, 100 ～ 400kHz

N.G. → Continue to the check process of 8U-37AK55000(Main Unit)

↓ **O.K.**

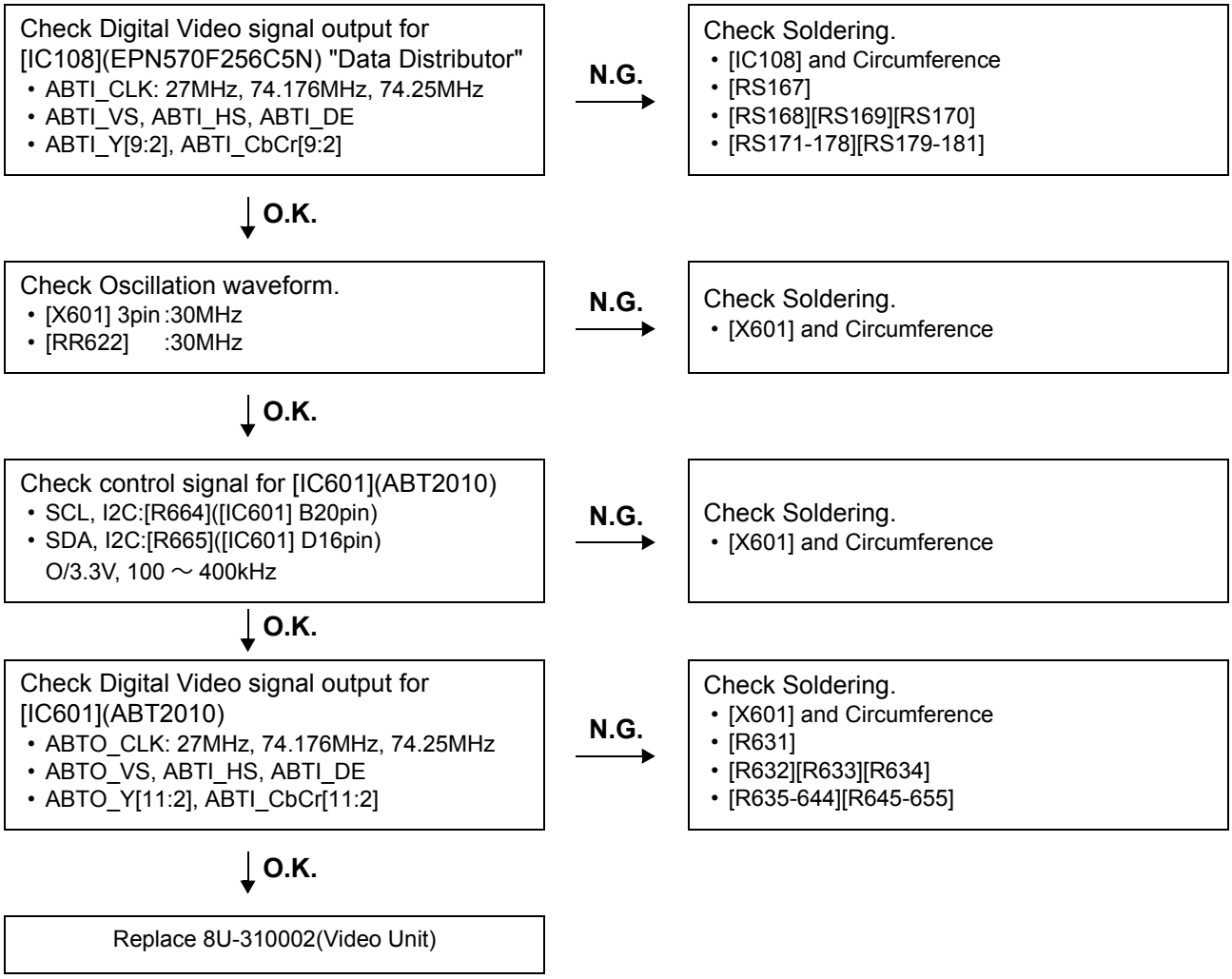
Check Digital Video signal input from Main Unit (8U-310002)
[CX801]
- 3pin: PXD_CLK, 74.176MHz/74.25MHz(BD), PXD_HS, PXD_DE, PXD_VS PXD_Y[11:4], PXD_CbCr[11:4]
- 50pin: SDPX_CLK, 27MHz(DVD) SDPX_HS, SDPX_VS SDPX_S[7:0]

N.G. → Continue to the check process of 8U-37AK55000(Main Unit)

↓ **O.K.**

Continue to the check process of each Video terminal

5.2. Video/S-Video Out does not be outputted



5.3. Component Out does not be outputted

Check Digital Video signal output for [IC108](EPN570F256C5N) "Data Distributor"
- ABTI_CLK: 27MHz, 74.176MHz, 74.25MHz
- ABTI_VS, ABTI_HS, ABTI_DE
- ABTI_Y[9:2], ABTI_CbCr[9:2]

N.G. → Check Soldering.
- [IC108] and Circumference
- [RS167]
- [RS168][RS169][RS170]
- [RS171-178][RS179-181]

↓ **O.K.**

Check Oscillation waveform.
- [X601] 3pin :30MHz
- [RR622] :30MHz

N.G. → Check Soldering.
- [X601] and Circumference

↓ **O.K.**

Check control signal for [IC601](ABT2010)
- SCL, I2C:[R664]([IC601] B20pin)
- SDA, I2C:[R665]([IC601] D16pin)
  O/3.3V, 100 ～ 400kHz

N.G. → Check Soldering.
- [X601] and Circumference

↓ **O.K.**

Check Digital Video signal output for [IC601](ABT2010)
- ABTO_CLK: 27MHz, 74.176MHz, 74.25MHz
- ABTO_VS, ABTI_HS, ABTI_DE
- ABTO_Y[11:2], ABTI_CbCr[11:2]

N.G. → Check Soldering.
- [X601] and Circumference
- [R631]
- [R632][R633][R634]
- [R635-644][R645-655]

↓ **O.K.**

Replace 8U-310002(Video Unit)

5.4. HDMI Out does not be outputted

Check Digital Video signal output for [IC108](EPN570F256C5N) "Data Distributor"
- RLTI_CLK: 27MHz, 74.176MHz, 74.25MHz(BD)
- RLTIH_VS, RLTIH_HS, RLTIH_DE
- RLTIH_Y[7:0], RLTIH_CbCr[7:0]

- RLTIS_CLK: 27MHz(DVD)
- RLTIS_VS, RLTIS_HS, RLTIH_DE
- RLTIS_S[7:0]

N.G. →
Check Soldering.
- [IC108] and Circumference
- [RS187]
- [RS188][RS189][RS190]
- [RS191-198][RS199][RE160-166]

- [RE167]
- [RE169][RE168][RE170]
- [RE171-178]

↓ **O.K.**

Check Oscillation waveform.
- [X201] 3pin:66.66MHz
- [TPF251]

N.G. →
Check Soldering.
- [X201] and Circumference

↓ **O.K.**

Check control signal for [IC203](SXT2LF-400)
- SCL, I2C:[R327]([IC601] 5pin or [IC203] V23pin)
- SDA, I2C:[R321]([IC203] W23pin)
  O/3.3V, 100 ～ 400kHz

- RLT_RSTN:[R240]([CX171] 7pin or [IC203] P25pin)
  High, 3.3V

N.G. →
Check Soldering.
- [IC203] and Circumference
- [IC202] and Circumference

↓ **O.K.**

Check control signal for HDMI out 1
(Check the connection between the DVD-A1UD and the TV.)
- [IC502](SiI9134), [JK601](HDMI Connector)
- SCL, DDC:[RE536]([JK601] 15pin)
- SDA, DDC:[RE537]([JK601] 16pin)
  0/3.3V, 100kHz

- Hot Plug: [JK601] 19pin or [RE527]
  5V

N.G. →
Check Soldering.
- [IC502] and Circumference
- [JK605]

↓ **O.K.**

Check Digital Video signal output for HDMI out 1(Check the connection between the DVD-A1UD and the TV.)
- [IC502](SiI9134), [JK601](HDMI Connector)
- TX-CLK +/-:[JK601] 10, 12pin
- TX0 +/- :[JK601] 7, 9pin
- TX1 +/- :[JK601] 4, 6pin
- TX2 +/- :[JK601] 1, 3pin

N.G. →
Check Soldering.
- [IC502] and Circumference
- [JK605]

↓ **O.K.**

Check control signal for HDMI out 2(Check the connection between the DVD-A1UD and the TV.)
- [IC504](SiI9134) and [JK605](HDMI Connector)
- SCL, DDC:[RS530]([JK605] 15pin)
- SDA, DDC:[RS531]([JK605] 16pin)
  0/3.3V, 100kHz

- Hot Plug : [JK601] 19pin or [RS523]
  5V

N.G. →

Check Soldering.
- [IC504] and Circumference
- [JK605]

↓ **O.K.**

Check Digital Video signal output for HDMI out 2 (Check the connection between the DVD-A1UD and the TV.)
- [IC504](SiI9134), [JK605](HDMI Connector)
- TX-CLK +/-:[JK605] 10, 12pin
- TX0 +/- :[JK605] 7, 9pin
- TX1 +/- :[JK605] 4, 6pin
- TX2 +/- :[JK605] 1, 3pin

N.G. →

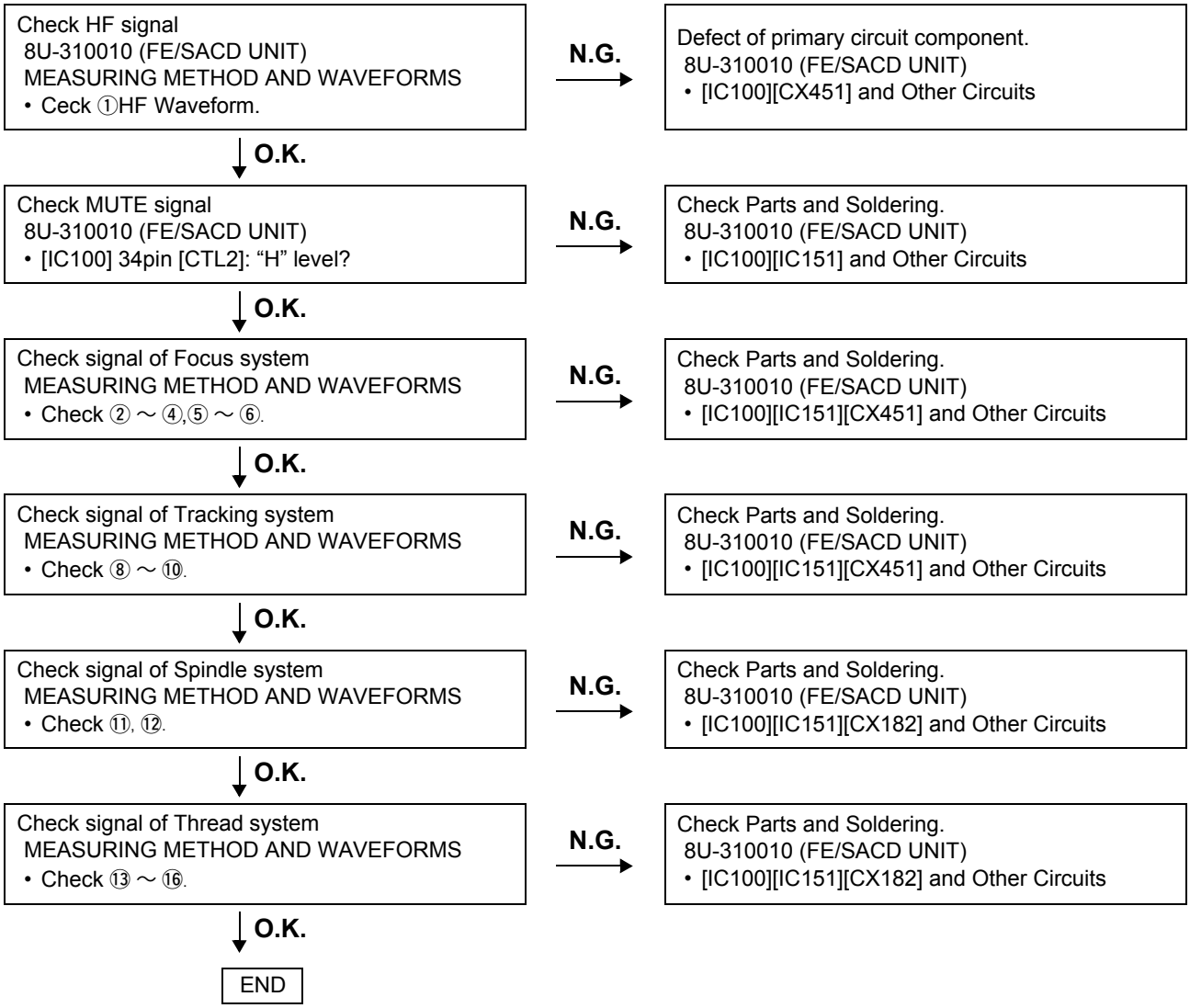
Check Soldering.
- [IC504] and Circumference
- [JK605]

↓ **O.K.**

Replace 8U-310002(Video Unit)

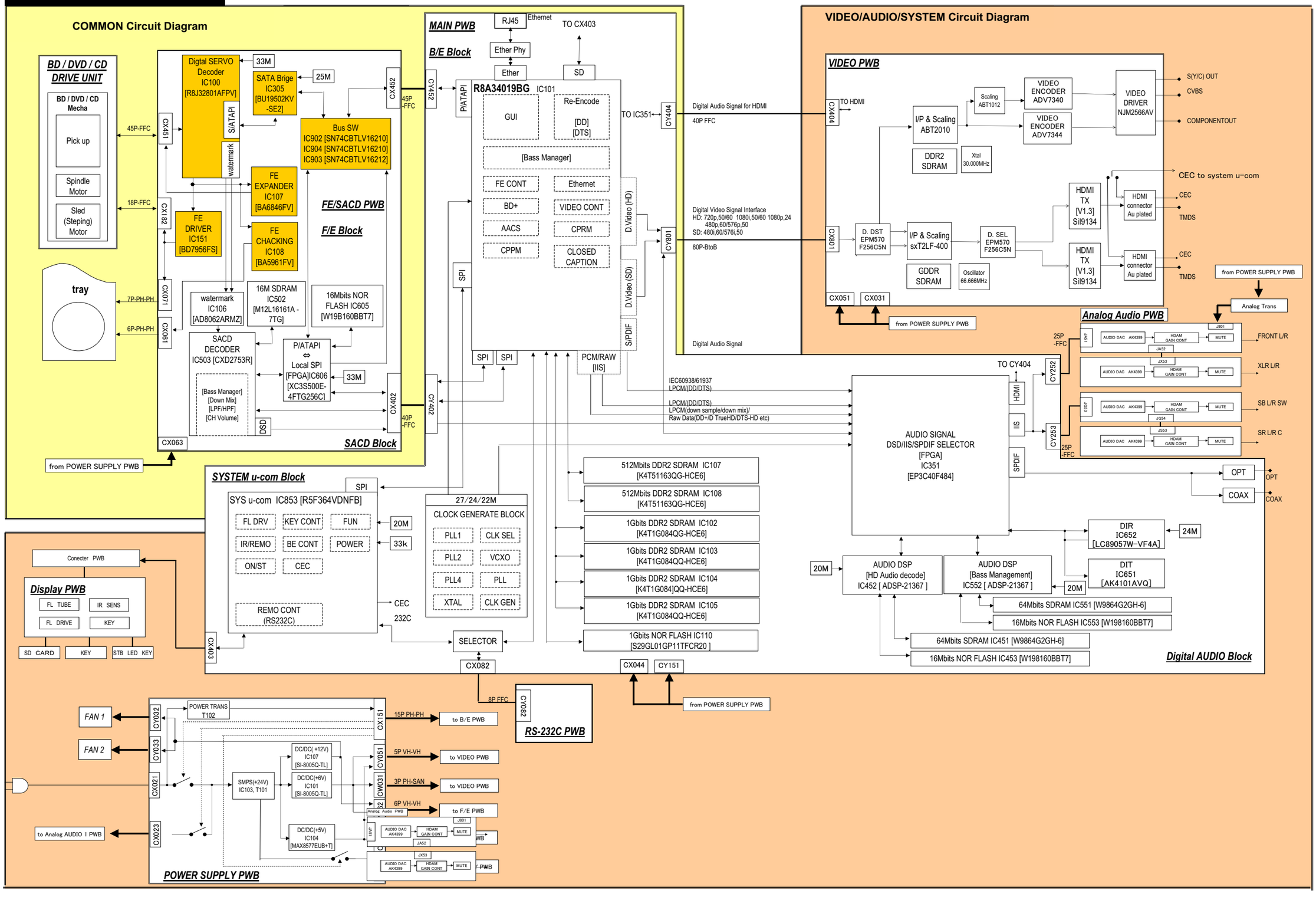
6. 8U-310010 (FE/SACD UNIT)

6.1. BD or DVD or CD or SACD check



BLOCK DIAGRAM

Block Diagram



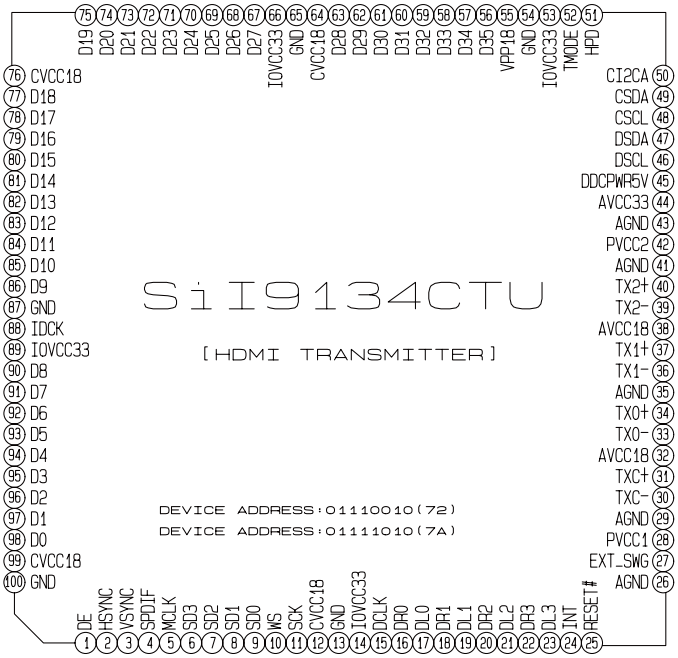
--MEMO--

SEMICONDUCTORS

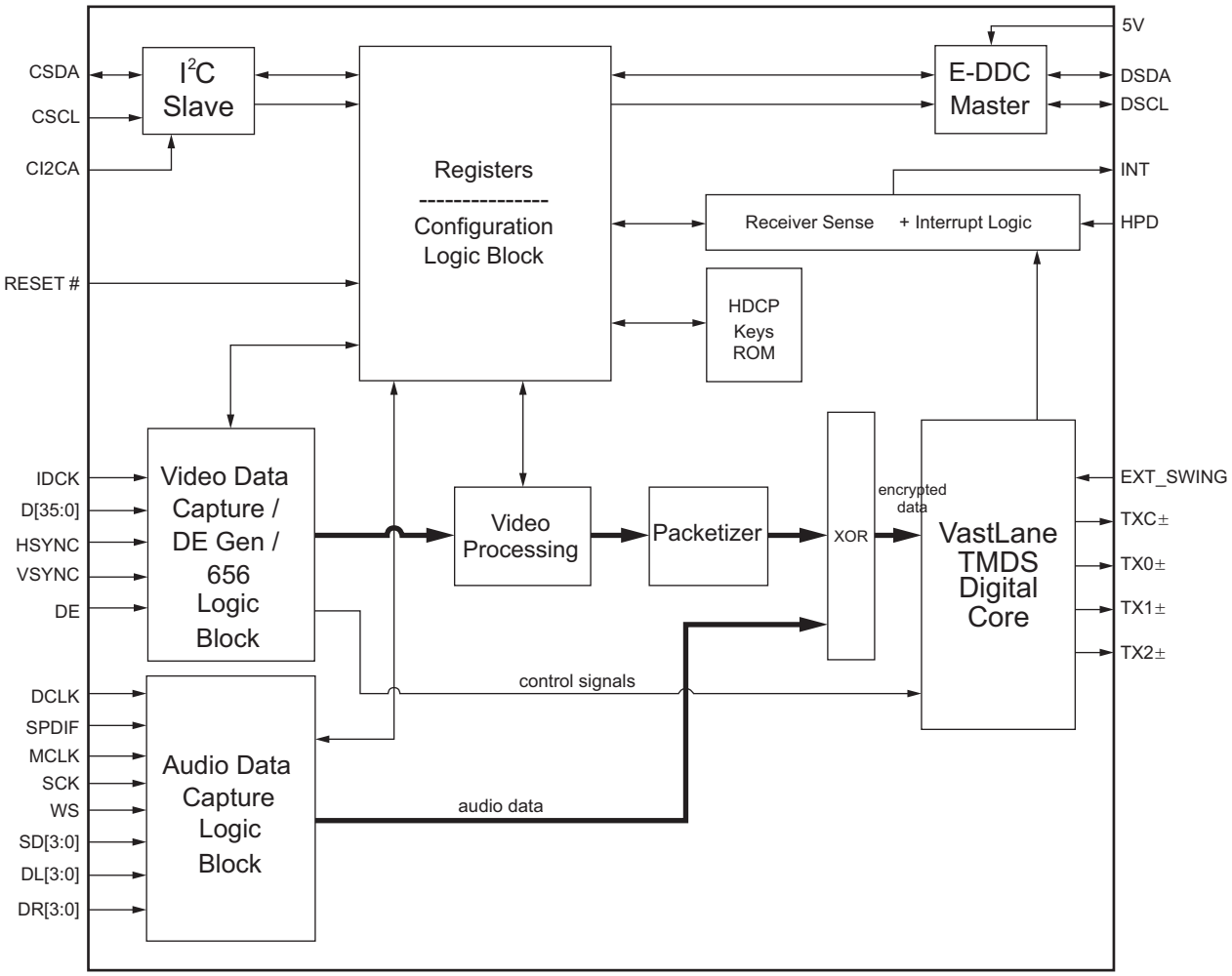
Only major semiconductors are shown, general semiconductors etc. are omitted to list.
The semiconductor which described a detailed drawing in a schematic diagram are omitted to list.

1. IC's

SII9134CTU (8U-310002 : IC502,IC504)



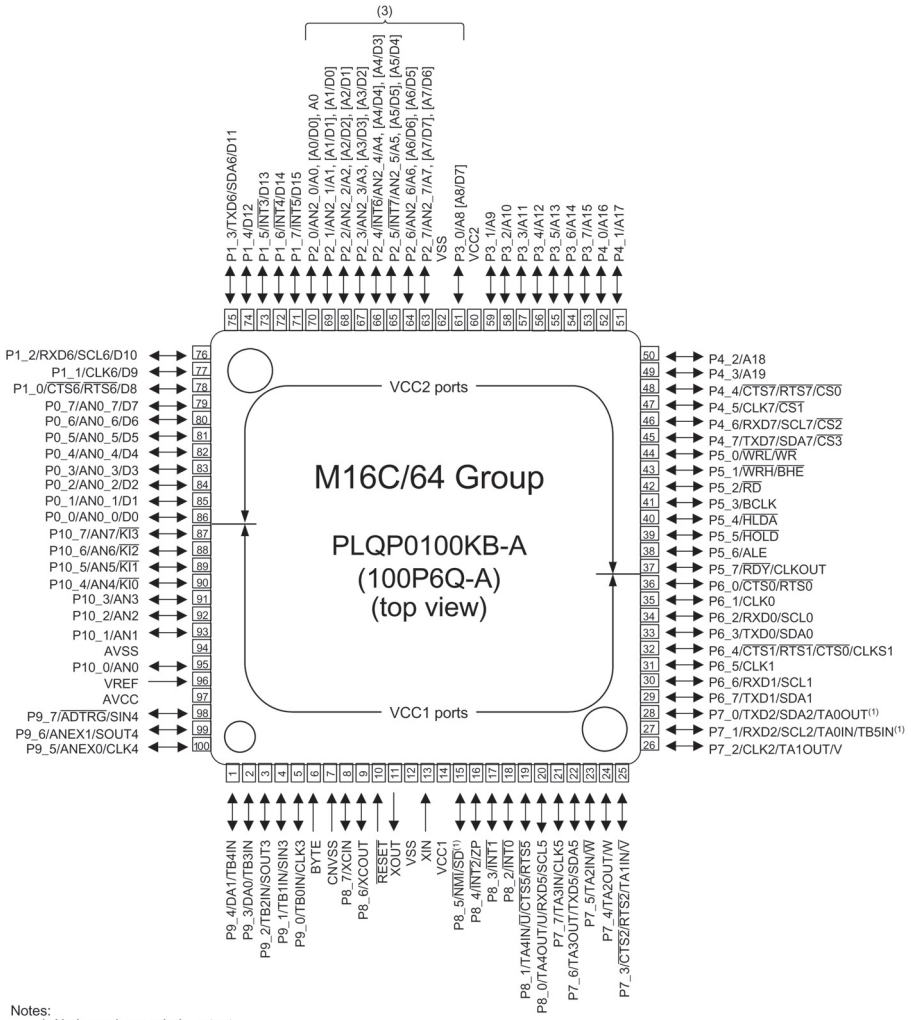
SII9134CTU Block Diagram



SII9134CTU Pin Function

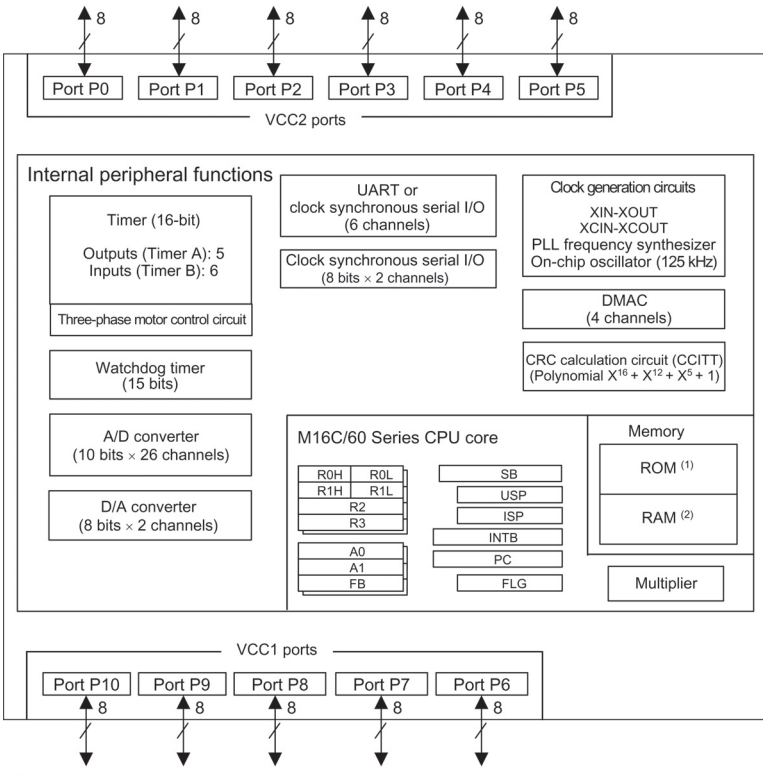
Pin Name	Pin #	Type	Dir	Description
D0	98	LVTTL	Input	These are the lower 12 bits of the 36-bit pixel bus. These pins are highly configurable and support multiple RGB and YCbCr formats. See Data Bus Mappings on page 30 for complete information.
D1	97	LVTTL	Input	
D2	96	LVTTL	Input	
D3	95	LVTTL	Input	
D4	94	LVTTL	Input	
D5	93	LVTTL	Input	
D6	92	LVTTL	Input	
D7	91	LVTTL	Input	
D8	90	LVTTL	Input	
D9	86	LVTTL	Input	
D10	85	LVTTL	Input	
D11	84	LVTTL	Input	
D12	83	LVTTL	Input	These are the middle 12 bits of the 36-bit pixel bus.
D13	82	LVTTL	Input	
D14	81	LVTTL	Input	
D15	80	LVTTL	Input	
D16	79	LVTTL	Input	
D17	78	LVTTL	Input	
D18	77	LVTTL	Input	
D19	75	LVTTL	Input	
D20	74	LVTTL	Input	
D21	73	LVTTL	Input	
D22	72	LVTTL	Input	
D23	71	LVTTL	Input	
D24	70	LVTTL	Input	These are the middle 12 bits of the 36-bit pixel bus.
D25	69	LVTTL	Input	
D26	68	LVTTL	Input	
D27	67	LVTTL	Input	
D28	63	LVTTL	Input	
D29	62	LVTTL	Input	
D30	61	LVTTL	Input	
D31	60	LVTTL	Input	
D32	59	LVTTL	Input	
D33	58	LVTTL	Input	
D34	57	LVTTL	Input	
D35	56	LVTTL	Input	
IDCK	88	LVTTL	Input	Input Data Clock
DE	1	LVTTL	Input	Data enable
HSYNC	2	LVTTL	Input	Horizontal Sync input control signal
VSYNC	3	LVTTL	Input	Vertical Sync input control signal
SCK	11	LVTTL	Input	I2S Serial Clock
WS	10	LVTTL	Input	I2S Word Select
SD0	9	LVTTL	Input	I2S Serial Data
SD1	8	LVTTL	Input	I2S Serial Data
SD2	7	LVTTL	Input	I2S Serial Data
SD3	6	LVTTL	Input	I2S Serial Data
DL0	17	LVTTL	Input	One-bit Audio Data Left 0
DR0	16	LVTTL	Input	One-bit Audio Data Right 0
DL1	19	LVTTL	Input	One-bit Audio Data Left 1
DR1	18	LVTTL	Input	One-bit Audio Data Right 1
DL2	21	LVTTL	Input	One-bit Audio Data Left 2
DR2	20	LVTTL	Input	One-bit Audio Data Right 2
DL3	23	LVTTL	Input	One-bit Audio Data Left 3
DR3	22	LVTTL	Input	One-bit Audio Data Right 3
DCLK	15	LVTTL	Input	One-bit Audio Clock Input
MCLK	5	LVTTL	Input	Audio Input Master Clock
SPDIF	4	LVTTL	Input	S/PDIF Audio Input

R5F364VDNFB (8U-37AK55000 : IC853)



Notes:
1. N-channel open-drain output.
2. Check the position of Pin 1 by referring to appendix 1, **Package Dimensions**.
3. Symbols in brackets [ ] represent a functional signal as a whole.

R5F364VDNFB Block Diagram



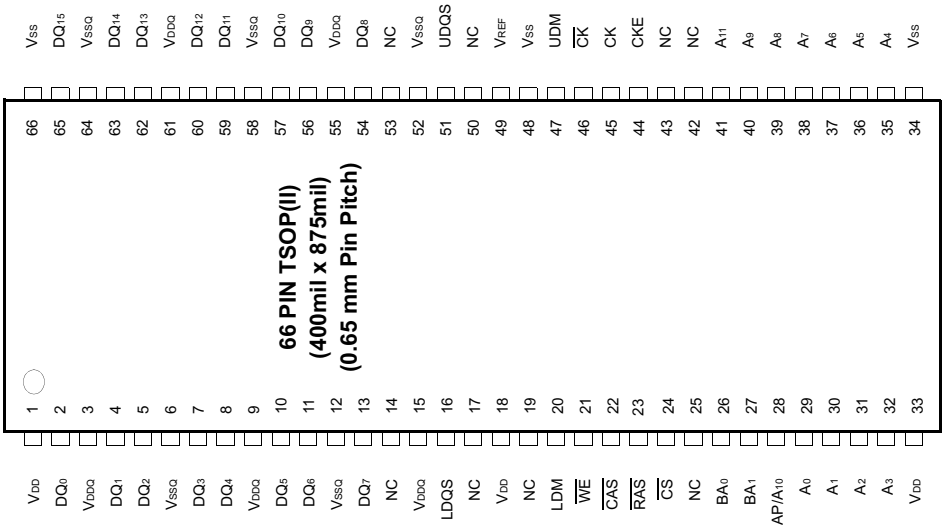
Notes :
1. ROM size depends on MCU type.
2. RAM size depends on MCU type.

R5F364VDNFB Pin Function

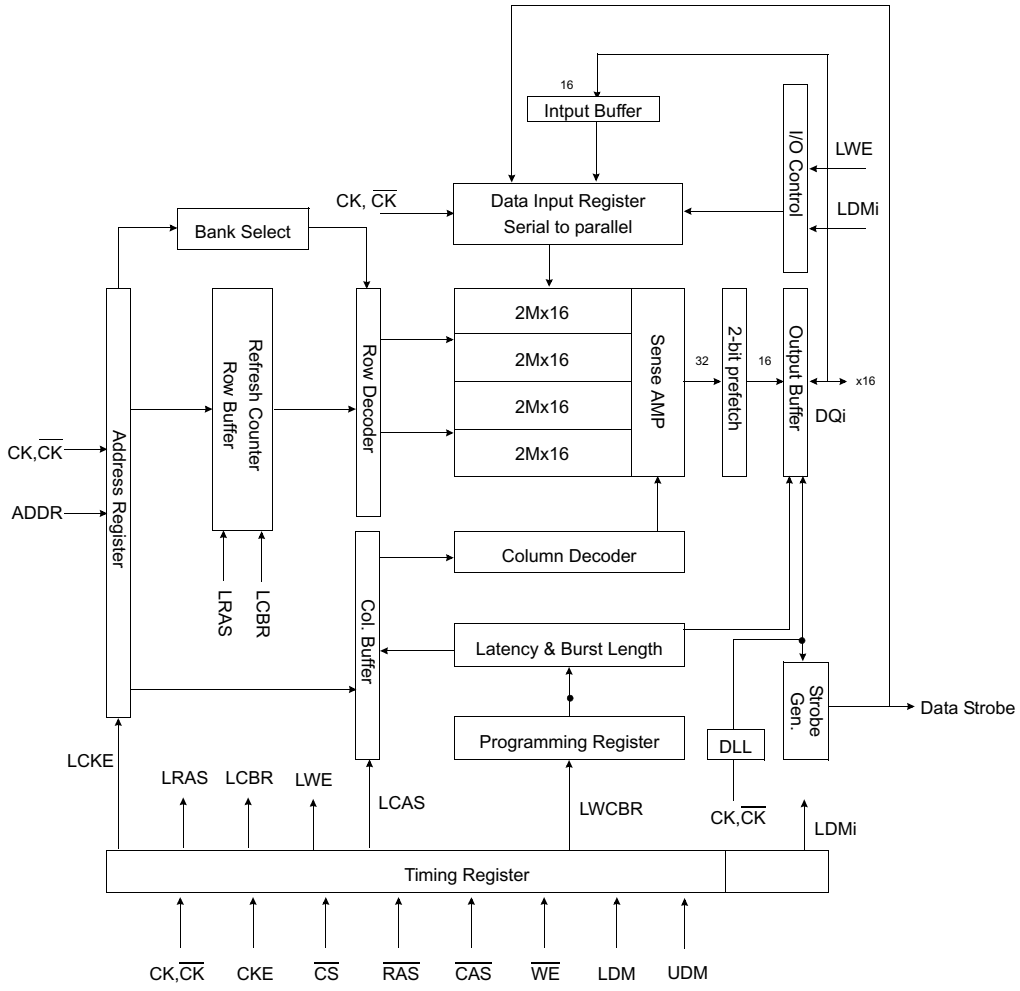
Pin No.		Control Pin	Port	I/O Pin Functions for of Peripheral Modules				Bus Control Pin
FA	FB			Interrupt	Timer	Serial interface	A/D converter D/A converter	
1	99		P9_6			SOUT4	ANEX1	
2	100		P9_5			CLK4	ANEX0	
3	1		P9_4		TB4IN		DA1	
4	2		P9_3		TB3IN		DA0	
5	3		P9_2		TB2IN	SOUT3		
6	4		P9_1		TB1IN	SIN3		
7	5		P9_0		TB0IN	CLK3		
8	6	BYTE						
9	7	CNVSS						
10	8	XCIN	P8_7					
11	9	XCOUT	P8_6					
12	10	$\overline{\text{RESET}}$						
13	11	XOUT						
14	12	VSS						
15	13	XIN						
16	14	VCC1						
17	15		P8_5	$\overline{\text{NMI}}$	$\overline{\text{SD}}$			
18	16		P8_4	$\overline{\text{INT2}}$	ZP			
19	17		P8_3	$\overline{\text{INT1}}$				
20	18		P8_2	$\overline{\text{INT0}}$				
21	19		P8_1		TA4IN/$\overline{\text{U}}$	$\overline{\text{CTS5}}$/$\overline{\text{RTS5}}$		
22	20		P8_0		TA4OUT/U	RXD5/SCL5		
23	21		P7_7		TA3IN	CLK5		
24	22		P7_6		TA3OUT	TXD5/SDA5		
25	23		P7_5		TA2IN/$\overline{\text{W}}$			
26	24		P7_4		TA2OUT/W			
27	25		P7_3		TA1IN/$\overline{\text{V}}$	$\overline{\text{CTS2}}$/$\overline{\text{RTS2}}$		
28	26		P7_2		TA1OUT/V	CLK2		
29	27		P7_1		TA0IN/TB5IN	RXD2/SCL2		
30	28		P7_0		TA0OUT	TXD2/SDA2		
31	29		P6_7			TXD1/SDA1		
32	30		P6_6			RXD1/SCL1		
33	31		P6_5			CLK1		
34	32		P6_4			$\overline{\text{CTS1}}$/$\overline{\text{RTS1}}$/$\overline{\text{CTS0}}$/CLKS1		
35	33		P6_3			TXD0/SDA0		
36	34		P6_2			RXD0/SCL0		
37	35		P6_1			CLK0		
38	36		P6_0			$\overline{\text{CTS0}}$/$\overline{\text{RTS0}}$		
39	37		P5_7					$\overline{\text{RDY}}$/CLKOUT
40	38		P5_6					ALE
41	39		P5_5					$\overline{\text{HOLD}}$
42	40		P5_4					$\overline{\text{HLDA}}$
43	41		P5_3					BCLK
44	42		P5_2					$\overline{\text{RD}}$
45	43		P5_1					$\overline{\text{WRH}}$/$\overline{\text{BHE}}$
46	44		P5_0					$\overline{\text{WRL}}$/$\overline{\text{WR}}$
47	45		P4_7			TXD7/SDA7		$\overline{\text{CS3}}$
48	46		P4_6			RXD7/SCL7		$\overline{\text{CS2}}$
49	47		P4_5			CLK7		$\overline{\text{CS1}}$
50	48		P4_4			$\overline{\text{CTS7}}$/$\overline{\text{RTS7}}$		$\overline{\text{CS0}}$

Pin No.		Control Pin	Port	I/O Pin Functions for of Peripheral Modules				Bus Control Pin
FA	FB			Interrupt	Timer	Serial interface	A/D converter D/A converter	
51	49		P4_3					A19
52	50		P4_2					A18
53	51		P4_1					A17
54	52		P4_0					A16
55	53		P3_7					A15
56	54		P3_6					A14
57	55		P3_5					A13
58	56		P3_4					A12
59	57		P3_3					A11
60	58		P3_2					A10
61	59		P3_1					A9
62	60	VCC2						
63	61		P3_0					A8, [A8/D7]
64	62	VSS						
65	63		P2_7				AN2_7	A7, [A7/D7], [A7/D6]
66	64		P2_6				AN2_6	A6, [A6/D6], [A6/D5]
67	65		P2_5	$\overline{\text{INT7}}$			AN2_5	A5, [A5/D5], [A5/D4]
68	66		P2_4	$\overline{\text{INT6}}$			AN2_4	A4, [A4/D4], [A4/D3]
69	67		P2_3				AN2_3	A3, [A3/D3], [A3/D2]
70	68		P2_2				AN2_2	A2, [A2/D2], [A2/D1]
71	69		P2_1				AN2_1	A1, [A1/D1], [A1/D0]
72	70		P2_0				AN2_0	A0, [A0/D0], A0
73	71		P1_7	$\overline{\text{INT5}}$				D15
74	72		P1_6	$\overline{\text{INT4}}$				D14
75	73		P1_5	$\overline{\text{INT3}}$				D13
76	74		P1_4					D12
77	75		P1_3			TXD6/SDA6		D11
78	76		P1_2			RXD6/SCL6		D10
79	77		P1_1			CLK6		D9
80	78		P1_0			$\overline{\text{CTS6}}$/$\overline{\text{RTS6}}$		D8
81	79		P0_7				AN0_7	D7
82	80		P0_6				AN0_6	D6
83	81		P0_5				AN0_5	D5
84	82		P0_4				AN0_4	D4
85	83		P0_3				AN0_3	D3
86	84		P0_2				AN0_2	D2
87	85		P0_1				AN0_1	D1
88	86		P0_0				AN0_0	D0
89	87		P10_7	$\overline{\text{KI3}}$			AN7	
90	88		P10_6	$\overline{\text{KI2}}$			AN6	
91	89		P10_5	$\overline{\text{KI1}}$			AN5	
92	90		P10_4	$\overline{\text{KI0}}$			AN4	
93	91		P10_3				AN3	
94	92		P10_2				AN2	
95	93		P10_1				AN1	
96	94	AVSS						
97	95		P10_0				AN0	
98	96	VREF						
99	97	AVCC						
100	98		P9_7			SIN4	$\overline{\text{ADTRG}}$	

K4D261638K-LC40 (8U-310002 : IC204-209,IC211,IC212)



K4D261638K-LC40 Block Diagram

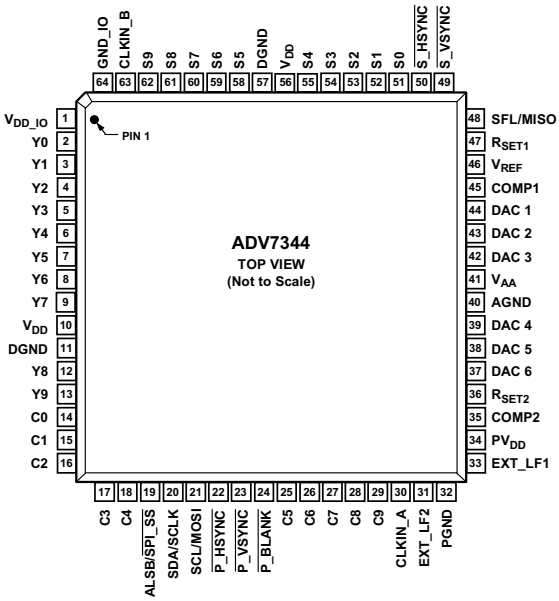


K4D261638K-LC40 Pin Function

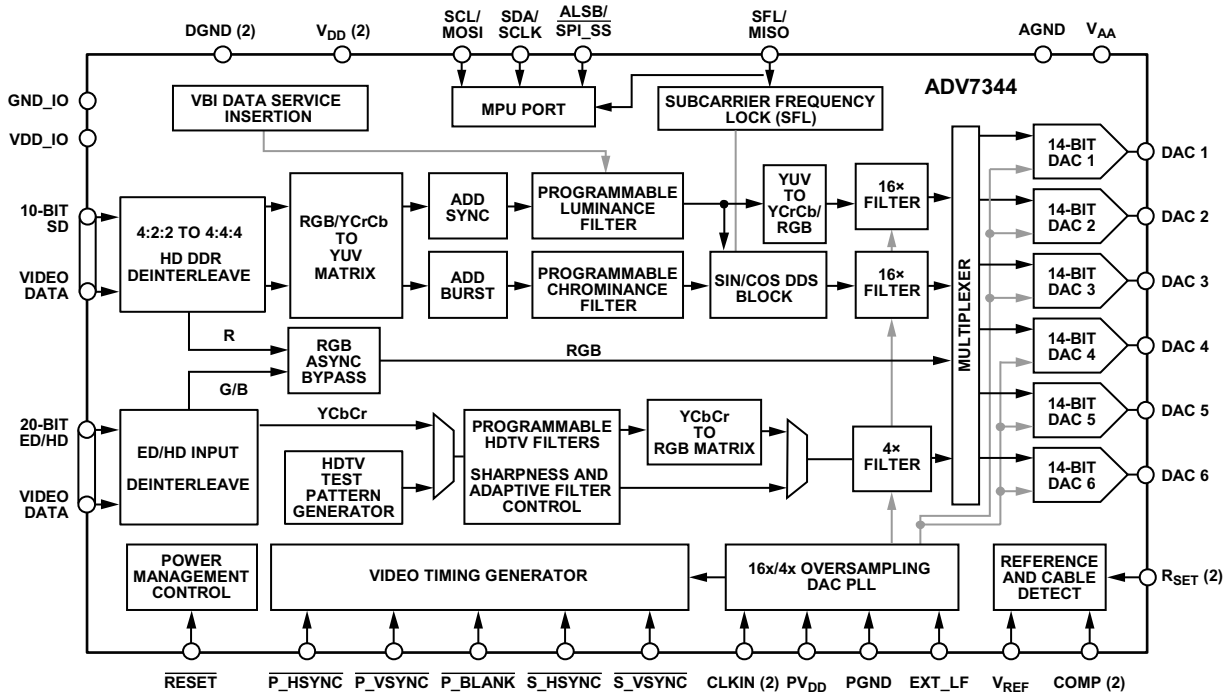
Symbol	Type	Function
CK, $\overline{CK}$*1	Input	The differential system clock Input. All of the inputs are sampled on the rising edge of the clock except DQ's and DM's that are sampled on both edges of the DQS.
CKE	Input	Activates the CK signal when high and deactivates the $\overline{CK}$ signal when low. By deactivating the clock, CKE low indicates the Power down mode or Self refresh mode.
$\overline{CS}$	Input	$\overline{CS}$ enables the command decoder when low and disabled the command decoder when high. When the command decoder is disabled, new commands are ignored but previous operations continue.
$\overline{RAS}$	Input	Latches row addresses on the positive going edge of the CK with $\overline{RAS}$ low. Enables row access & precharge.
$\overline{CAS}$	Input	Latches column addresses on the positive going edge of the CK with $\overline{CAS}$ low. Enables column access.
$\overline{WE}$	Input	Enables write operation and row precharge. Latches data in starting from $\overline{CAS}$, $\overline{WE}$ active.
LDQS,UDQS	Input/Output	Data input and output are synchronized with both edge of DQS. For the x16, LDQS corresponds to the data on DQ0-DQ7 ; UDQS corresponds to the data on DQ8-DQ15.
LDM,UDM	Input	Data in Mask. Data In is masked by DM Latency=0 when DM is high in burst write. For the x16, LDM corresponds to the data on DQ0-DQ7 ; UDM correspons to the data on DQ8-DQ15.
DQ_0 ~ DQ_{15}	Input/Output	Data inputs/Outputs are multiplexed on the same pins.
BA_0, BA_1	Input	Selects which bank is to be active.
A_0 ~ A_{11}	Input	Row/Column addresses are multiplexed on the same pins. Row addresses : RA_0 ~ RA_{11}, Column addresses : CA_0 ~ CA_8.
V_{DD}/V_{SS}	Power Supply	Power and ground for the input buffers and core logic.
V_{DDQ}/V_{SSQ}	Power Supply	Isolated power supply and ground for the output buffers to provide improved noise immunity.
V_{REF}	Power Supply	Reference voltage for inputs, used for SSTL interface.
NC/RFU	No connection/ Reserved for future use	This pin is recommended to be left "No connection" on the device

*1 : The timing reference point for the differential clocking is the cross point of CK and $\overline{CK}$.
For any applications using the single ended clocking, apply V_{REF} to $\overline{CK}$ pin.

ADV7344BSTZ (8U-310002 : IC802)



ADV7344BSTZ Block Diagram



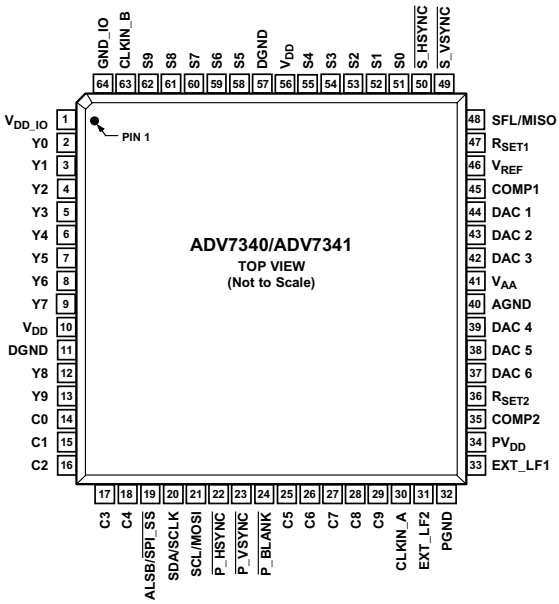
ADV7344BSTZ Pin Function

Pin No.	Mnemonic	Input/ Output	Description
13, 12, 9 to 2	Y9 to Y0	I	10-Bit Pixel Port (Y9 to Y0). Y0 is the LSB. Refer to Table 31 for input modes.
29 to 25, 18 to 14	C9 to C0	I	10-Bit Pixel Port (C9 to C0). C0 is the LSB. Refer to Table 31 for input modes.
62 to 58, 55 to 51	S9 to S0	I	10-Bit Pixel Port (S9 to S0). S0 is the LSB. Refer to Table 31 for input modes.
30	CLKIN_A	I	Pixel Clock Input for HD only (74.25 MHz), ED[1] only (27 MHz or 54 MHz) or SD only (27 MHz).
63	CLKIN_B	I	Pixel Clock Input for Dual Modes Only. Requires a 27 MHz reference clock for ED operation or a 74.25 MHz reference clock for HD operation.
50	$\overline{\text{S_HSYNC}}$	I/O	SD Horizontal Synchronization Signal. This pin can also be configured to output an SD, ED, or HD horizontal synchronization signal. See the External Horizontal and Vertical Synchronization Control section.
49	$\overline{\text{S_VSYNC}}$	I/O	SD Vertical Synchronization Signal. This pin can also be configured to output an SD, ED, or HD vertical synchronization signal. See the External Horizontal and Vertical Synchronization Control section.
22	$\overline{\text{P_HSYNC}}$	I	ED/HD Horizontal Synchronization Signal. See the External Horizontal and Vertical Synchronization Control section.
23	$\overline{\text{P_VSYNC}}$	I	ED/HD Vertical Synchronization Signal. See the External Horizontal and Vertical Synchronization Control section.
24	$\overline{\text{P_BLANK}}$	I	ED/HD Blanking Signal. See the External Horizontal and Vertical Synchronization Control section.
48	SFL/MISO	I/O	Multifunctional Pin: Subcarrier Frequency Lock (SFL) Input/SPI Data Output. The SFL input is used to drive the color subcarrier DDS system, timing reset, or subcarrier reset.
47	R_{SET1}	I	This pin is used to control the amplitudes of the DAC 1, DAC 2, and DAC 3 outputs. For full-drive operation (for example, into a 37.5 Ω load), a 510 Ω resistor must be connected from R_{SET1} to AGND. For low drive operation (for example, into a 300 Ω load), a 4.12 kΩ resistor must be connected from R_{SET1} to AGND.
36	R_{SET2}	I	This pin is used to control the amplitudes of the DAC 4, DAC 5, and DAC 6 outputs. A 4.12 kΩ resistor must be connected from R_{SET2} to AGND.
45, 35	COMP1, COMP2	O	Compensation Pins. Connect a 2.2 nF capacitor from both COMP pins to V_{AA}.

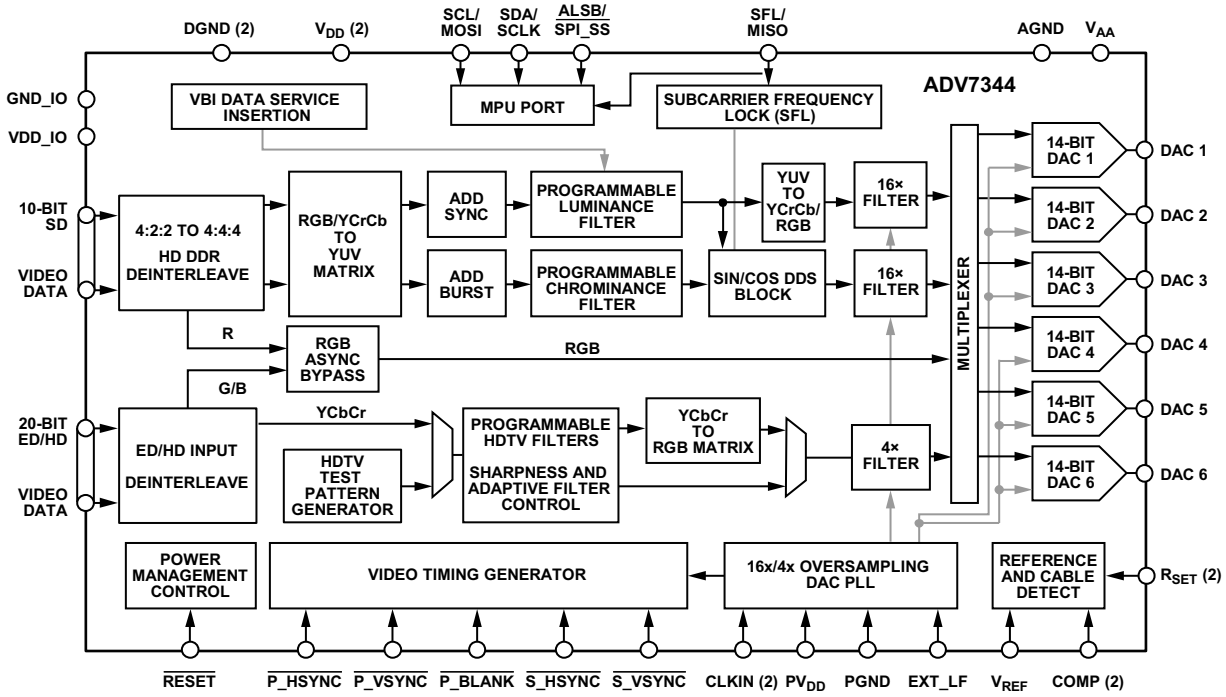
Pin No.	Mnemonic	Input/ Output	Description
44, 43, 42	DAC 1, DAC 2, DAC 3	O	DAC Outputs. Full and low drive capable DACs.
39, 38, 37	DAC 4, DAC 5, DAC 6	O	DAC Outputs. Low drive only capable DACs.
21	SCL/MOSI	I	Multifunctional Pin: I²C Clock Input/SPI Data Input.
20	SDA/SCLK	I/O	Multifunctional Pin: I²C Data Input/Output. Also, SPI clock input.
19	ALSB/$\overline{\text{SPI_SS}}$	I	Multifunctional Pin: This signal sets up the LSB[2] of the MPU I²C address. Also, SPI slave select.
46	V_{REF}		Optional External Voltage Reference Input for DACs or Voltage Reference Output.
41	V_{AA}	P	Analog Power Supply (3.3 V).
10, 56	V_{DD}	P	Digital Power Supply (1.8 V). For dual-supply configurations, V_{DD} can be connected to other 1.8 V supplies through a ferrite bead or suitable filtering.
1	V_{DD_IO}	P	Input/Output Digital Power Supply (3.3 V).
34	PV_{DD}	P	PLL Power Supply (1.8 V). For dual-supply configurations, PV_{DD} can be connected to other 1.8 V supplies through a ferrite bead or suitable filtering.
33	EXT_LF1	I	External Loop Filter for On-Chip PLL 1.
31	EXT_LF2	I	External Loop Filter for On-Chip PLL 2.
32	PGND	G	PLL Ground Pin.
40	AGND	G	Analog Ground Pin.
11, 57	DGND	G	Digital Ground Pin.
64	GND_IO	G	Input/Output Supply Ground Pin.

[1] ED = enhanced definition = 525p and 625p.
[2] LSB = least significant bit. In the ADV7344, setting the LSB to 0 sets the I²C address to 0xD4. Setting it to 1 sets the I²C address to 0xD6.

ADV7340BSTZ (8U-310002 : IC808)



ADV7340BSTZ Block Diagram



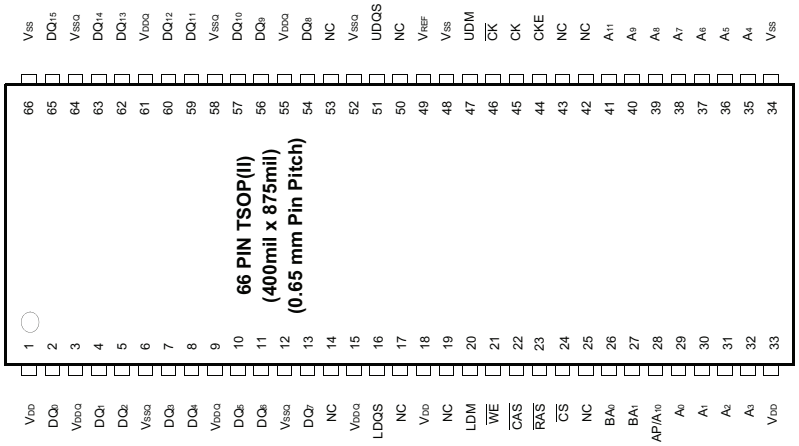
ADV7340BSTZ Pin Function

Pin No.	Mnemonic	Input/ Output	Description
13, 12, 9 to 2	Y9 to Y0	I	10-Bit Pixel Port (Y9 to Y0). Y0 is the LSB. Refer to Table 31 for input modes.
29 to 25, 18 to 14	C9 to C0	I	10-Bit Pixel Port (C9 to C0). C0 is the LSB. Refer to Table 31 for input modes.
62 to 58, 55 to 51	S9 to S0	I	10-Bit Pixel Port (S9 to S0). S0 is the LSB. Refer to Table 31 for input modes.
30	CLKIN_A	I	Pixel Clock Input for HD Only (74.25 MHz), ED[1] Only (27 MHz or 54 MHz), or SD Only (27 MHz).
63	CLKIN_B	I	Pixel Clock Input for Dual Modes Only. Requires a 27 MHz reference clock for ED operation or a 74.25 MHz reference clock for HD operation.
50	$\overline{\text{S_HSYNC}}$	I/O	SD Horizontal Synchronization Signal. This pin can also be configured to output an SD, ED, or HD horizontal synchronization signal. See the External Horizontal and Vertical Synchronization Control section.
49	$\overline{\text{S_VSYNC}}$	I/O	SD Vertical Synchronization Signal. This pin can also be configured to output an SD, ED, or HD vertical synchronization signal. See the External Horizontal and Vertical Synchronization Control section.
22	$\overline{\text{P_HSYNC}}$	I	ED/HD Horizontal Synchronization Signal. See the External Horizontal and Vertical Synchronization Control section.
23	$\overline{\text{P_VSYNC}}$	I	ED/HD Vertical Synchronization Signal. See the External Horizontal and Vertical Synchronization Control section.
24	$\overline{\text{P_BLANK}}$	I	ED/HD Blanking Signal. See the External Horizontal and Vertical Synchronization Control section.
48	SFL/MISO	I/O	Multifunctional Pin: Subcarrier Frequency Lock (SFL) Input/SPI Data Output. The SFL input is used to drive the color subcarrier DDS system, timing reset, or subcarrier reset.
47	R_{SET1}	I	This pin is used to control the amplitudes of the DAC 1, DAC 2, and DAC 3 outputs. For full-drive operation (for example, into a 37.5 Ω load), a 510 Ω resistor must be connected from R_{SET1} to AGND. For low drive operation (for example, into a 300 Ω load), a 4.12 kΩ resistor must be connected from R_{SET1} to AGND.
36	R_{SET2}	I	This pin is used to control the amplitudes of the DAC 4, DAC 5, and DAC 6 outputs. A 4.12 kΩ resistor must be connected from R_{SET2} to AGND.

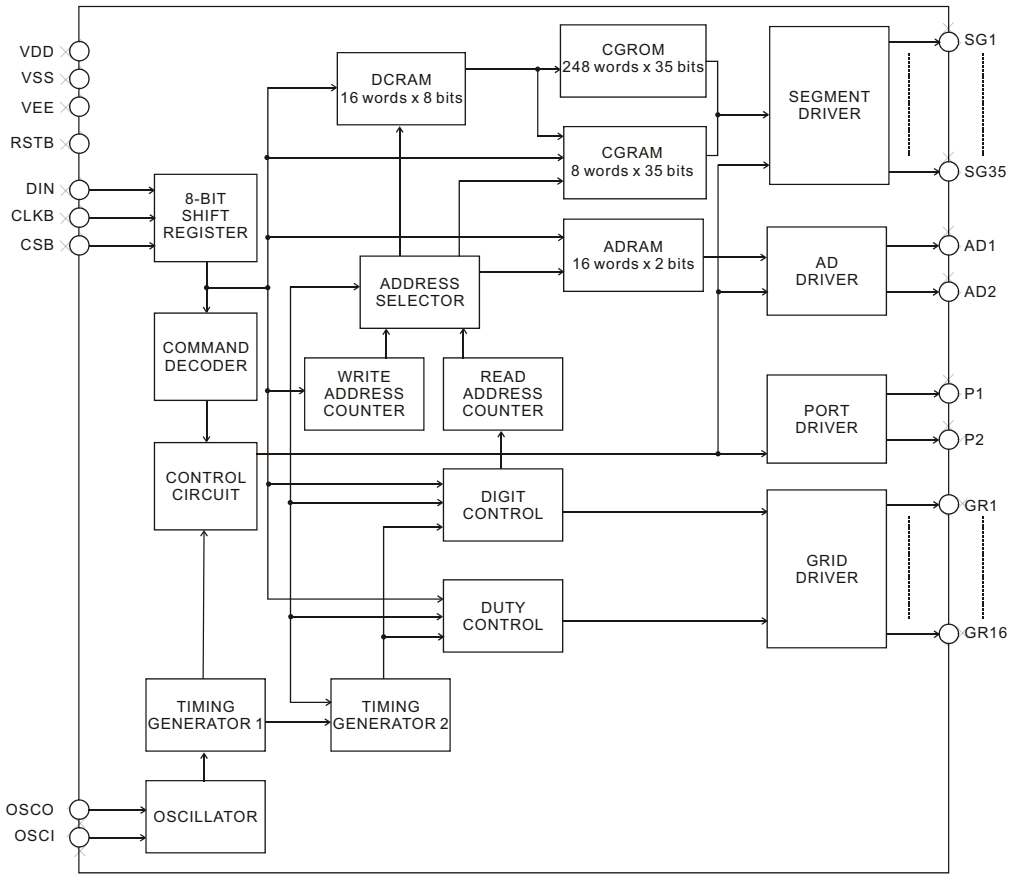
Pin No.	Mnemonic	Input/ Output	Description
44, 43, 42	DAC 1, DAC 2, DAC 3	O	DAC Outputs. Full and low drive capable DACs.
39, 38, 37	DAC 4, DAC 5, DAC 6	O	DAC Outputs. Low drive only capable DACs.
21	SCL/MOSI	I	Multifunctional Pin: I²C Clock Input/SPI Data Input.
20	SDA/SCLK	I/O	Multifunctional Pin: I²C Data Input/Output. Also, SPI clock input.
19	ALSB/$\overline{\text{SPI_SS}}$	I	Multifunctional Pin: This signal sets up the LSB[2] of the MPU I²C address. Also, SPI slave select.
46	V_{REF}		Optional External Voltage Reference Input for DACs or Voltage Reference Output.
41	V_{AA}	P	Analog Power Supply (3.3 V).
10, 56	V_{DD}	P	Digital Power Supply (1.8 V). For dual-supply configurations, V_{DD} can be connected to other 1.8 V supplies through a ferrite bead or suitable filtering.
1	V_{DD_IO}	P	Input/Output Digital Power Supply (3.3 V).
34	PV_{DD}	P	PLL Power Supply (1.8 V). For dual-supply configurations, PV_{DD} can be connected to other 1.8 V supplies through a ferrite bead or suitable filtering.
33	EXT_LF1	I	External Loop Filter for On-Chip PLL 1.
31	EXT_LF2	I	External Loop Filter for On-Chip PLL 2.
32	PGND	G	PLL Ground Pin.
40	AGND	G	Analog Ground Pin.
11, 57	DGND	G	Digital Ground Pin.
64	GND_IO	G	Input/Output Supply Ground Pin.

[1] ED = enhanced definition = 525p and 625p.
[2] LSB = least significant bit. In the ADV7344, setting the LSB to 0 sets the I²C address to 0xD4. Setting it to 1 sets the I²C address to 0xD6.

PT6302-R-001(L) (8U-37AK53000 : IC401)



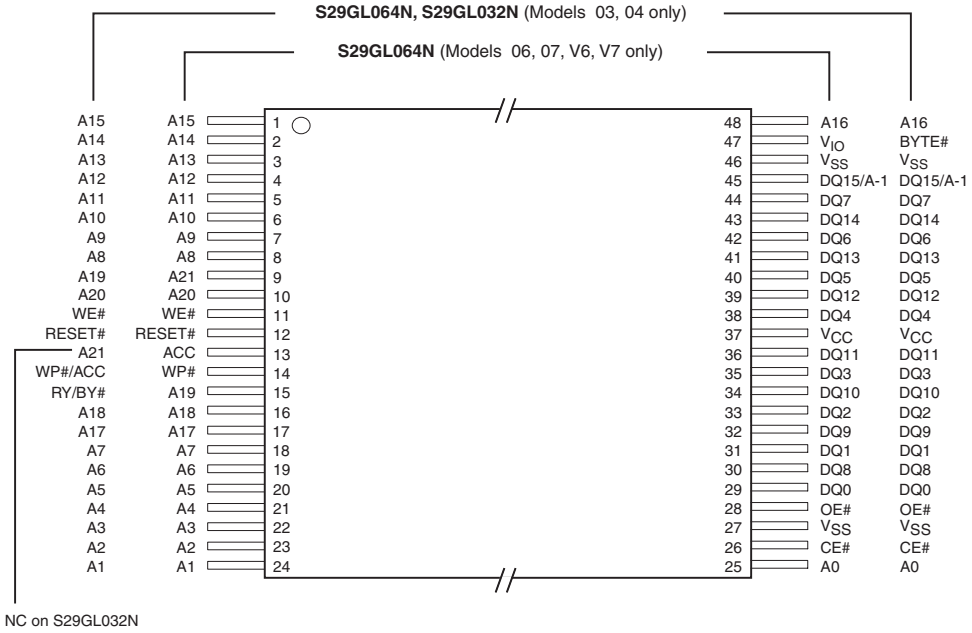
PT6302-R-001(L) Block Diagram



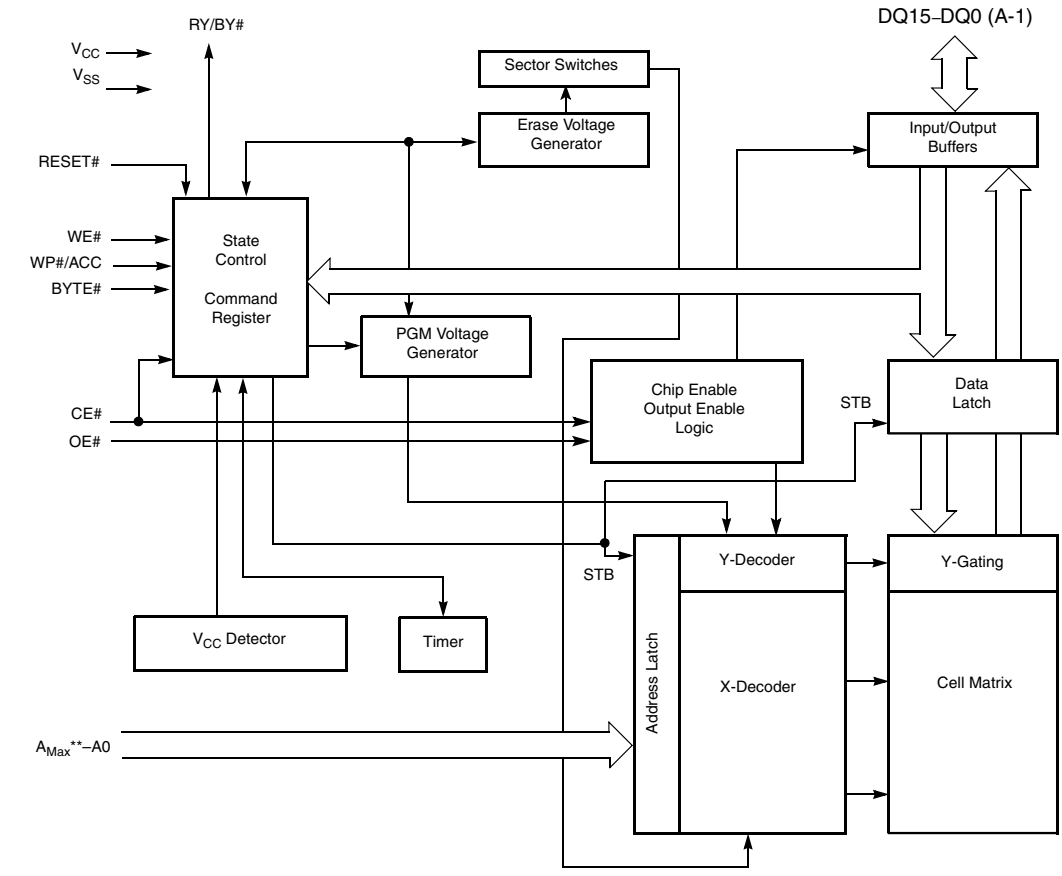
PT6302-R-001(L) Pin Function

Pin Name	I/O	Description	Pin No.	
			LQFP	SSOP
SG5 to SG35 SG4 to SG1	O	Segment driver output pin	1 ~ 31 64 ~ 61	9 ~ 39 8 ~ 5
GR1 to GR16	O	Grid driver output pin	32 ~ 47	40 ~ 55
VEE	-	Power supply	48	56
VSS	-	Ground pin	49	57
OSCI	I	Oscillator input pin	50	58
OSCO	O	Oscillator output pin	51	59
RSTB	I	Reset input pin When this pin is set to "LOW", all functions are initialized.	52	60
CSB	I	Chip select input pin When this pin is set to "High" Level, the serial data transfer is disabled.	53	61
CLKB	I	Shift clock input pin The serial data is shifted at the rising edge of CLKB.	54	62
DIN	I	Serial data input pin	55	63
VDD	-	Positive power supply	56	64
P1 to P2	O	General purpose output pin	57 ~ 58	1 ~ 2
AD2 to AD1	O	Segment driver output pin	59 ~ 60	3 ~ 4

S29GL064N90TFI040# (8U-310002 : IC213)



S29GL064N90TFI040# Block Diagram



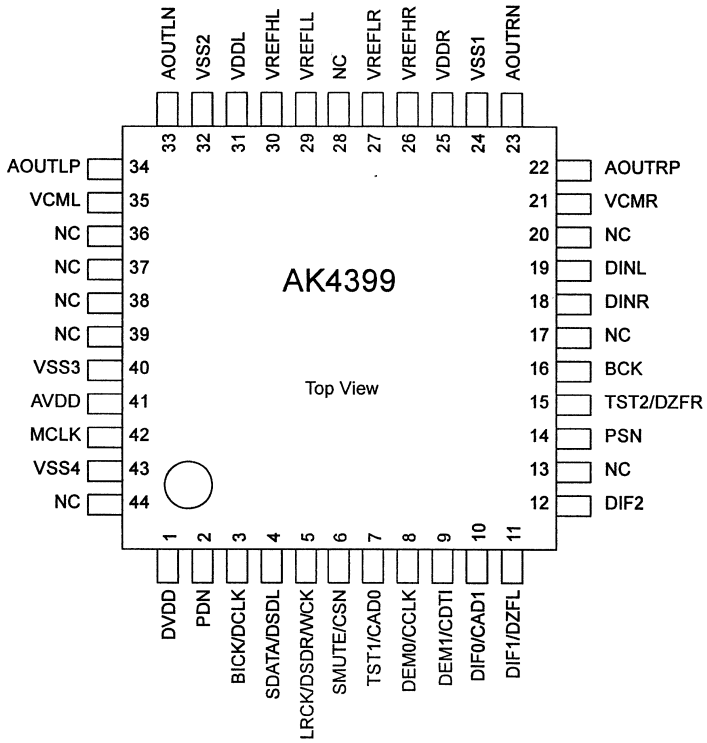
Note

***A_{MAX} GL064N = A21, GL032N = A20.*

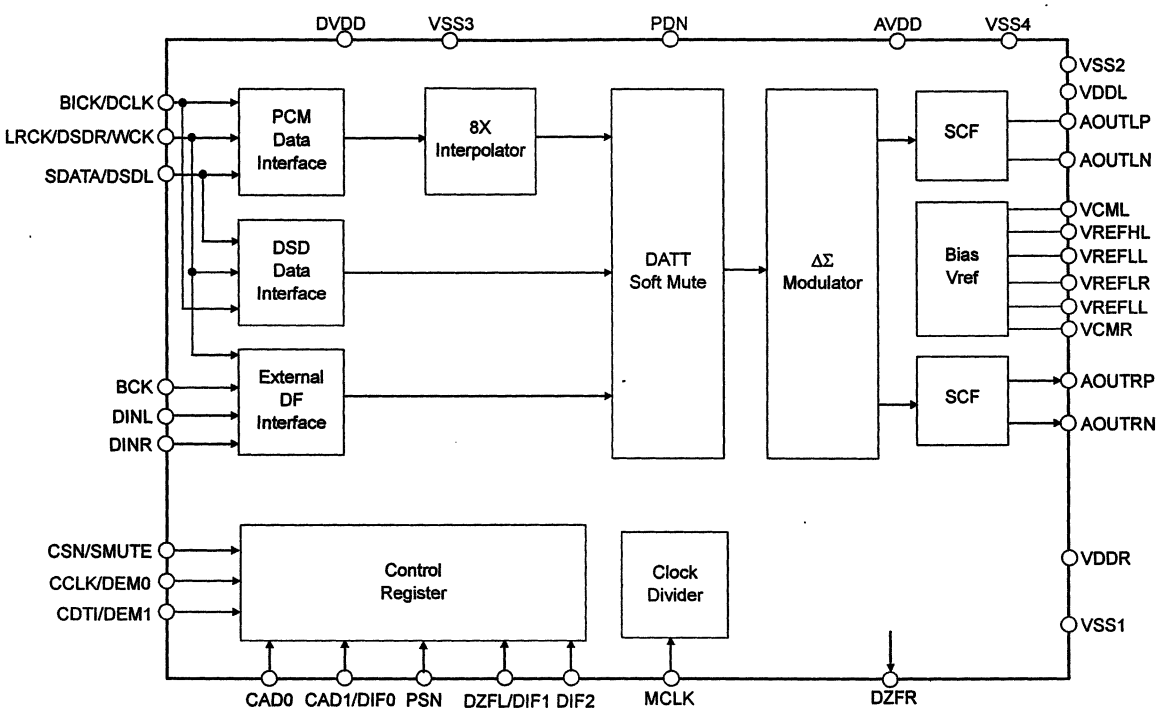
S29GL064N90TFI040# Pin Function

Pin	Description
A21–A0	22 Address inputs (S29GL064N)
A20–A0	21 Address inputs (S29GL032N)
DQ7–DQ0	8 Data inputs/outputs
DQ14–DQ0	15 Data inputs/outputs
DQ15/A-1	DQ15 (Data input/output, word mode), A-1 (LSB Address input, byte mode)
CE#	Chip Enable input
OE#	Output Enable input
WE#	Write Enable input
WP#/ACC	Hardware Write Protect input/Programming Acceleration input
ACC	Acceleration input
WP#	Hardware Write Protect input
RESET#	Hardware Reset Pin input
RY/BY#	Ready/Busy output
BYTE#	Selects 8-bit or 16-bit mode
V_{CC}	3.0 volt-only single power supply (see *Product Selector Guide* for speed options and voltage supply tolerances)
V_{IO}	Output Buffer Power
V_{SS}	Device Ground
NC	Pin Not Connected Internally

AK4399EQ (8U-210016 : IC101)



AK4399EQ Block Diagram



AK4399EQ Pin Function

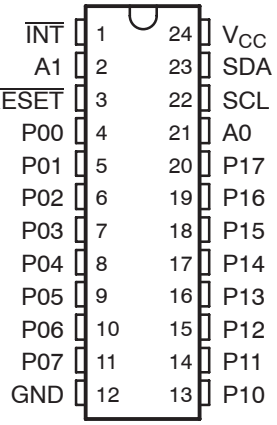
No.	Pin Name	I/O	Function
1	DVDD	-	Digital Power Supply Pin, 4.75 ~ 5.25V
2	PDN	I	Power-Down Mode Pin When at "L", the AK4399 is in power-down mode and is held in reset. The AK4399 should always be reset upon power-up.
3	BICK	I	Audio Serial Data Clock Pin in PCM Mode
	DCLK	I	DSD Clock Pin in DSD Mode
4	SDATA	I	Audio Serial Data Input Pin in PCM Mode
	DSDL	I	DSD Lch Data Input Pin in DSD Mode
5	LRCK	I	L/R Clock Pin in PCM Mode
	DSDR	I	DSD Rch Data Input Pin in DSD Mode
	WCK	I	Word Clock input pin
6	SMUTE	I	Soft Mute Pin in Parallel Control Mode When this pin is changed to "H", soft mute cycle is initiated. When returning "L", the output mute releases.
	CSN	I	Chip Select Pin in Serial Control Mode
7	TST1	I	Test Pin in Parallel Control Mode (Internal pull-down pin)
	CAD0	I	Chip Address 0 Pin in Serial Control Mode (Internal pull-down pin)
8	DEM0	I	De-emphasis Enable 0 Pin in Parallel Control Mode
	CCLK	I	Control Data Clock Pin in Serial Control Mode
9	DEM1	I	De-emphasis Enable 1 Pin in Parallel Control Mode
	CDTI	I	Control Data Input Pin in Serial Control Mode
10	DIF0	I	Digital Input Format 0 Pin in PCM Mode
	CAD1	I	Chip Address 1 Pin in Serial Control Mode
11	DIF1	I	Digital Input Format 1 Pin in PCM Mode
	DZFL	O	Lch Zero Input Detect Pin in Serial Control Mode
12	DIF2	I	Digital Input Format 2 Pin in PCM Mode
13	NC	-	No internal bonding. Connect to GND.

Note: All input pins except internal pull-up/down pins should not be left floating.

14	PSN	I	Parallel or Serial Select Pin (Internal pull-up pin) "L": Serial Control Mode, "H": Parallel Control Mode
15	TST2	I	Test pin in Parallel Control Mode. Connect to GND.
	DZFR	O	Rch Zero Input Detect Pin in Serial Control Mode
16	BCK	I	Audio Serial Data Clock Pin (Internal pull-down pin)
17	NC	-	No internal bonding. Connect to GND.
18	DINR	I	Rch Audio Serial Data Input Pin (Internal pull-down pin)
19	DINL	I	Lch Audio Serial Data Input Pin (Internal pull-down pin)
20	NC	-	No internal bonding. Connect to GND.
21	VCMR	-	Right channel Common Voltage Pin, Normally connected to VSS with a TBD electrolytic cap.
22	AOUTRP	O	Rch Positive Analog Output Pin
23	AOUTRN	O	Rch Negative Analog Output Pin
24	VSS1	-	Ground Pin
25	VDDR	-	Rch Analog Power Supply Pin, 4.75 ~ 5.25V
26	VREFHR	I	Rch High Level Voltage Reference Input Pin
27	VREFLR	I	Rch Low Level Voltage Reference Input Pin
28	NC	-	No internal bonding. Connect to GND.
29	VREFLL	I	Lch Low Level Voltage Reference Input Pin
30	VREFHL	I	Lch High Level Voltage Reference Input Pin
31	VDDL	-	Lch Analog Power Supply Pin, 4.75 ~ 5.25V
32	VSS2	-	Ground Pin
33	AOUTLN	O	Lch Negative Analog Output Pin
34	AOUTLP	O	Lch Positive Analog Output Pin
35	VCML	-	Left channel Common Voltage Pin, Normally connected to VSS with a TBD electrolytic cap.
36	NC	-	No internal bonding. Connect to GND.
37	NC	-	No internal bonding. Connect to GND.
38	NC	-	No internal bonding. Connect to GND.
39	NC	-	No internal bonding. Connect to GND.
40	VSS3	-	Ground Pin
41	AVDD	-	Analog Power Supply Pin, 4.75 ~ 5.25V
42	MCLK	I	Master Clock Input Pin
43	VSS4	-	Ground Pin
44	NC	-	No internal bonding. Connect to GND.

Note: All input pins except internal pull-up/down pins should not be left floating.

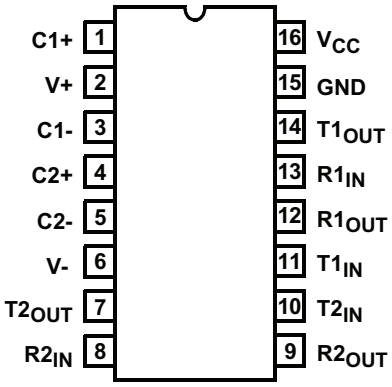
PCA9539PW,188 (8U-310002 : IC102)



PCA9539PW,188 Pin Function

NO.		NAME	DESCRIPTION
SOIC (DW), SSOP (DB), QSOP (DBQ), TSSOP (PW), AND TVSOP (DGV)	QFN (RGE)		
1	22	$\overline{INT}$	Interrupt output. Connect to V_{CC} through a pullup resistor.
2	23	A1	Address input. Connect directly to V_{CC} or ground.
3	24	$\overline{RESET}$	Active-low reset input. Connect to V_{CC} through a pullup resistor if no active connection is used.
4	1	P00	P-port input/output. Push-pull design structure.
5	2	P01	P-port input/output. Push-pull design structure.
6	3	P02	P-port input/output. Push-pull design structure.
7	4	P03	P-port input/output. Push-pull design structure.
8	5	P04	P-port input/output. Push-pull design structure.
9	6	P05	P-port input/output. Push-pull design structure.
10	7	P06	P-port input/output. Push-pull design structure.
11	8	P07	P-port input/output. Push-pull design structure.
12	9	GND	Ground
13	10	P10	P-port input/output. Push-pull design structure.
14	11	P11	P-port input/output. Push-pull design structure.
15	12	P12	P-port input/output. Push-pull design structure.
16	13	P13	P-port input/output. Push-pull design structure.
17	14	P14	P-port input/output. Push-pull design structure.
18	15	P15	P-port input/output. Push-pull design structure.
19	16	P16	P-port input/output. Push-pull design structure.
20	17	P17	P-port input/output. Push-pull design structure.
21	18	A0	Address input. Connect directly to V_{CC} or ground.
22	19	SCL	Serial clock bus. Connect to V_{CC} through a pullup resistor.
23	20	SDA	Serial data bus. Connect to V_{CC} through a pullup resistor.
24	21	V_{CC}	Supply voltage

HIN202EIBNZ-T (8U-37AK53000 : IC403)

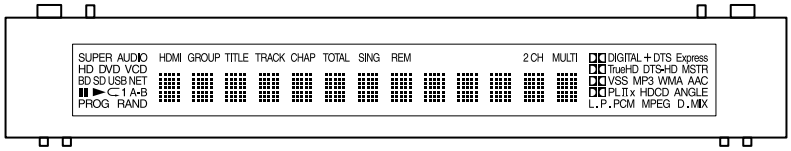


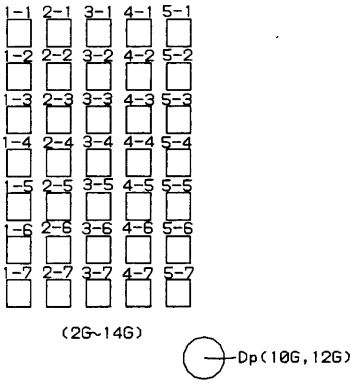
HIN202EIBNZ-T Pin Function

PIN	FUNCTION
V_{CC}	Power Supply Input 5V 10%, (5V 5% HIN207E).
V+	Internally generated positive supply (+10V nominal).
V-	Internally generated negative supply (-10V nominal).
GND	Ground Lead. Connect to 0V.
C1+	External capacitor (+ terminal) is connected to this lead.
C1-	External capacitor (- terminal) is connected to this lead.
C2+	External capacitor (+ terminal) is connected to this lead.
C2-	External capacitor (- terminal) is connected to this lead.
T_{IN}	Transmitter Inputs. These leads accept TTL/CMOS levels. An internal 400k pull-up resistor to V_{CC} is connected to each lead.
T_{OUT}	Transmitter Outputs. These are RS-232 levels (nominally 10V).
R_{IN}	Receiver Inputs. These inputs accept RS-232 input levels. An internal 5k pull-down resistor to GND is connected to each input.
R_{OUT}	Receiver Outputs. These are TTL/CMOS levels.
$\overline{EN}$, EN	Receiver Enable Input. With $\overline{EN}$ = 5V (HIN213E EN=0V), the receiver outputs are placed in a high impedance state.
SD, $\overline{SD}$	Shutdown Input. With SD = 5V (HIN213E $\overline{SD}$ = 0V), the charge pump is disabled, the receiver outputs are in a high impedance state (except R4 and R5 of HIN213E) and the transmitters are shut off.
NC	No Connect. No connections are made to these leads.

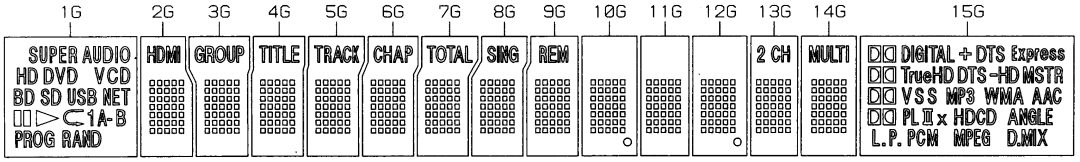
2. FL DISPLAY

FL TUBE (15-BT-114GNK) (8U-37AK53000 : FL401)





GRID ASSIGNMENT



PIN CONNECTION

PIN NO.	54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
CONNECTION	P3 P2 P1 P0 P9 P8 P7 P6 P5 P4 P3 P2 P1 P0 P9 P8 P7 P6 P5 P4 P3 P2 P1 P0 P9 P8 P7 P6 P5 P4 P3 P2 P1 P0 P9 P8 P7 P6 P5 P4 P3 P2 P1 P0 NN NN 54 53 52 51 50 49 48 47 46 45 44 43 42 41 CC CC GG GG GG GG GG GG GG GG GG GG GG GG PP XX NN NN F+

PIN NO.	66 65 64 63 62 61 60 59 58 57 56 55
CONNECTION	F- NX NP P9 P8 P7 P6 P5 P4 P3 P2 P1 P0

NOTE
1) F-,F+ --- Filament
2) NP ------ No pin
3) DL ------ Datum Line
4) 1G~15G --- Grid
5) Solder composition is Sn-3Ag-0.5Cu
6) NC ------ No connection (NC pin should be electrically open on the PC board)
7) NX ------ No extend pin

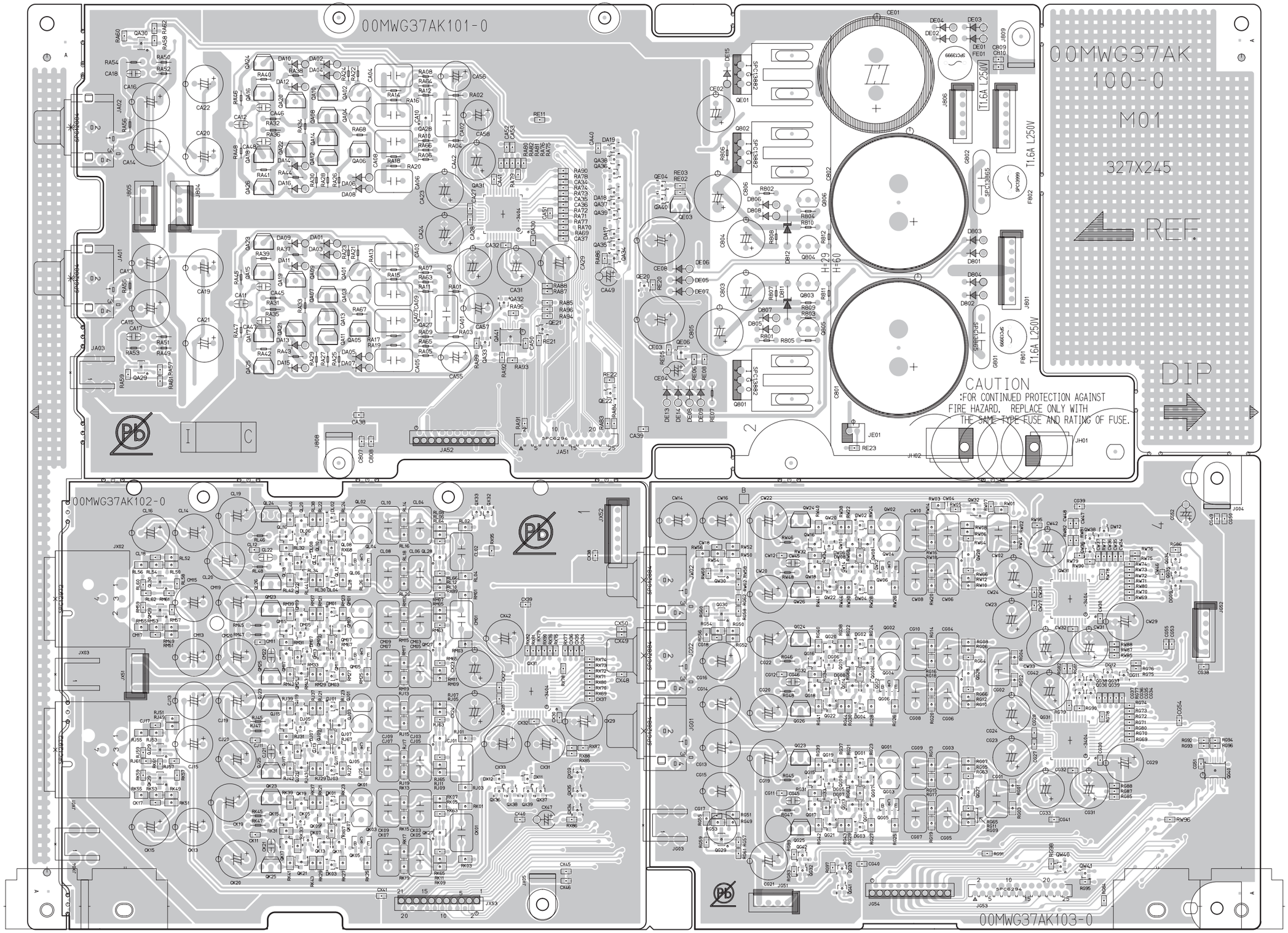
ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G
P1	SUPER	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	DIGITAL
P2	AUDIO	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	+
P3	HD	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	DTS (+)
P4	DVD	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	Express
P5	V	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	TrueHD
P6	CD	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	DTS (+HD)
P7	BD	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	-HD
P8	SD	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	MSTR
P9	USB	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	DIGITAL (VSS)
P10	NET	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	VSS (S)
P11	II	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	S (VS)
P12	▷	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	MP3
P13	⊂	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	WMA
P14	1	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	AAC
P15	A-	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	DIGITAL (PL)
P16	B	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	PL
P17	PROG	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	II
P18	RAND	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	X
P19	-	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	HDCD
P20	-	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	ANGLE
P21	-	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	L.
P22	-	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	P.
P23	-	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	PCM
P24	-	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	MPEG
P25	-	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	D.MIX
P26	-	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	-
P27	-	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	-
P28	-	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	-
P29	-	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	-
P30	-	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	-
P31	-	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	-
P32	-	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	-
P33	-	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	-
P34	-	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	-
P35	-	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	-
P36	-	HDMI	GROUP	TITLE	TRACK	CHAP	TOTAL	SING	REM	Dp	-	Dp	2 CH	MULTI	-

--MEMO--

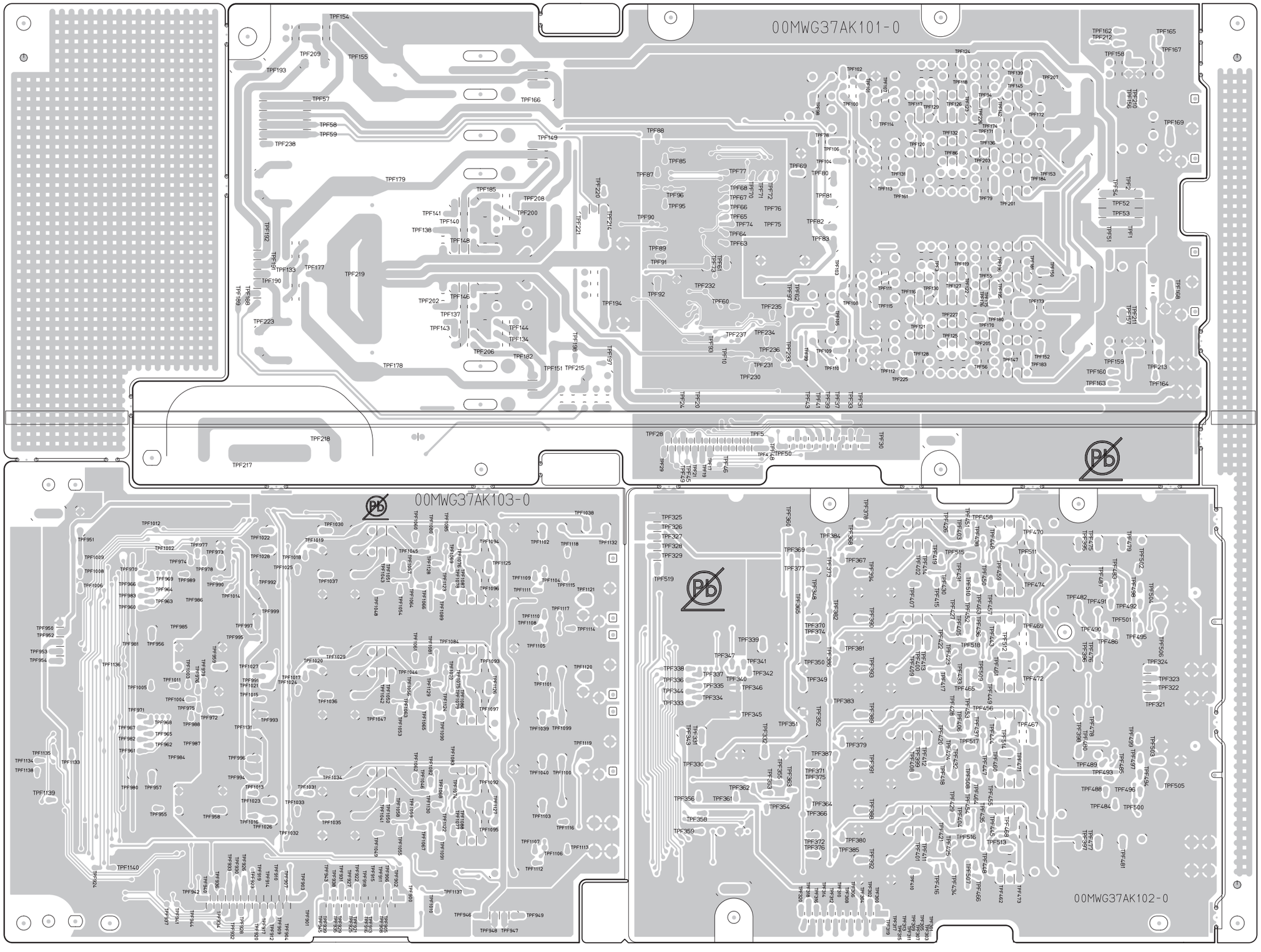
PRINTED WIRING BOARDS

8U-37AK51000 AUDIO P.W.B. UNIT(1/2)



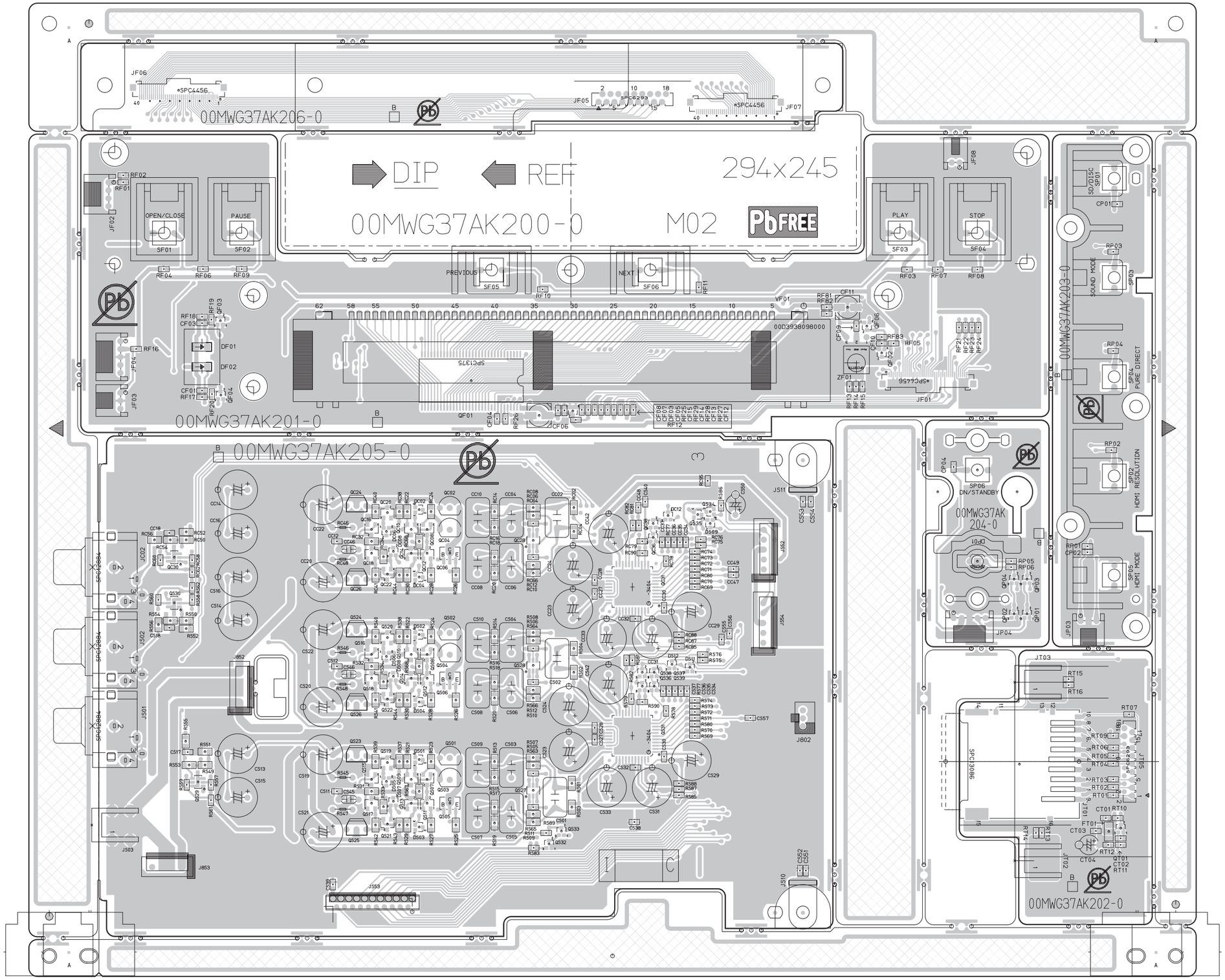
COMPONENT SIDE

8U-37AK51000 AUDIO P.W.B. UNIT(2/2)



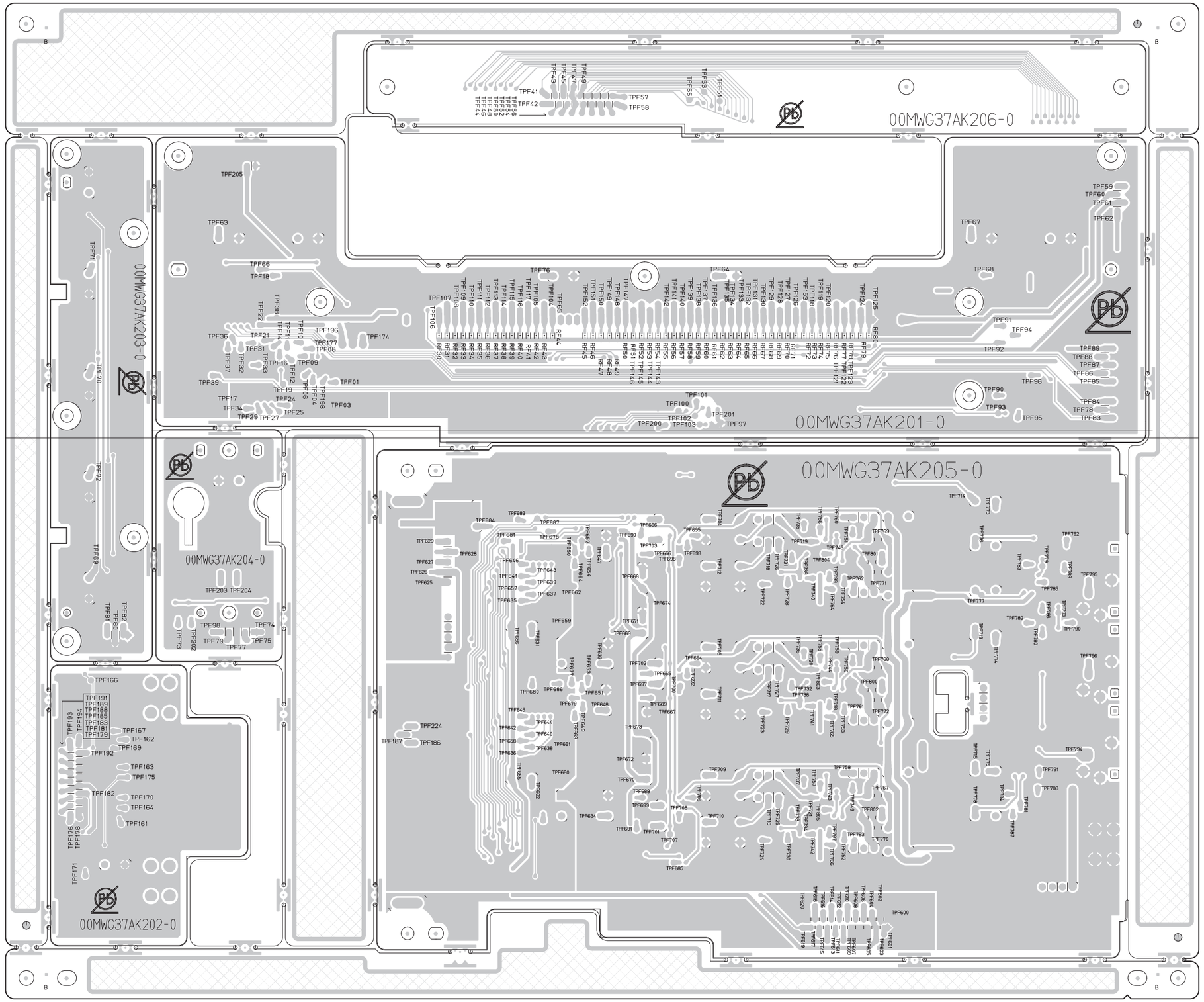
FOIL SIDE

8U-37AK52000 AUDIO/FRONT P.W.B. UNIT(1/2)



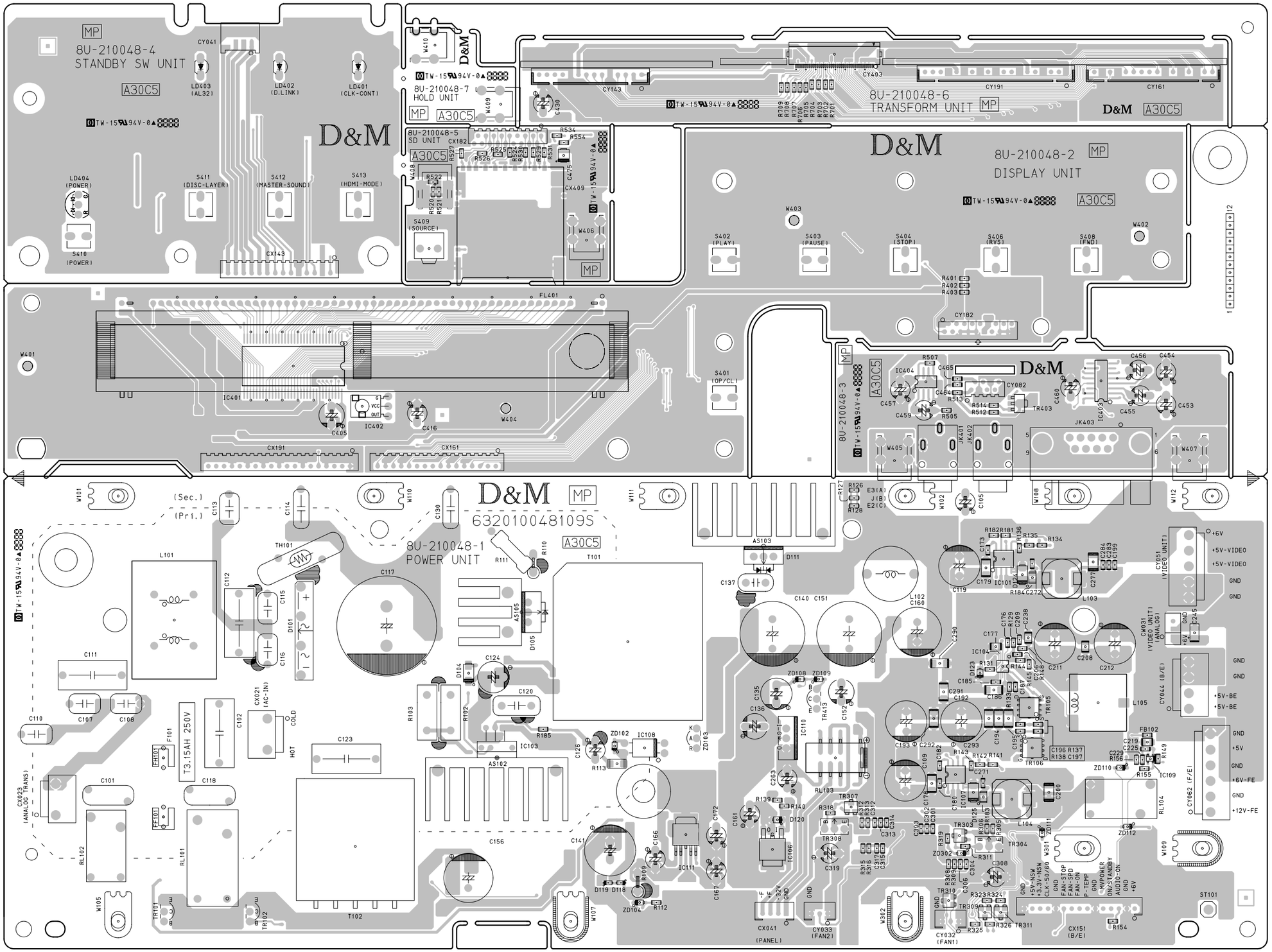
COMPONENT SIDE

8U-37AK52000 AUDIO/FRONT P.W.B. UNIT(2/2)



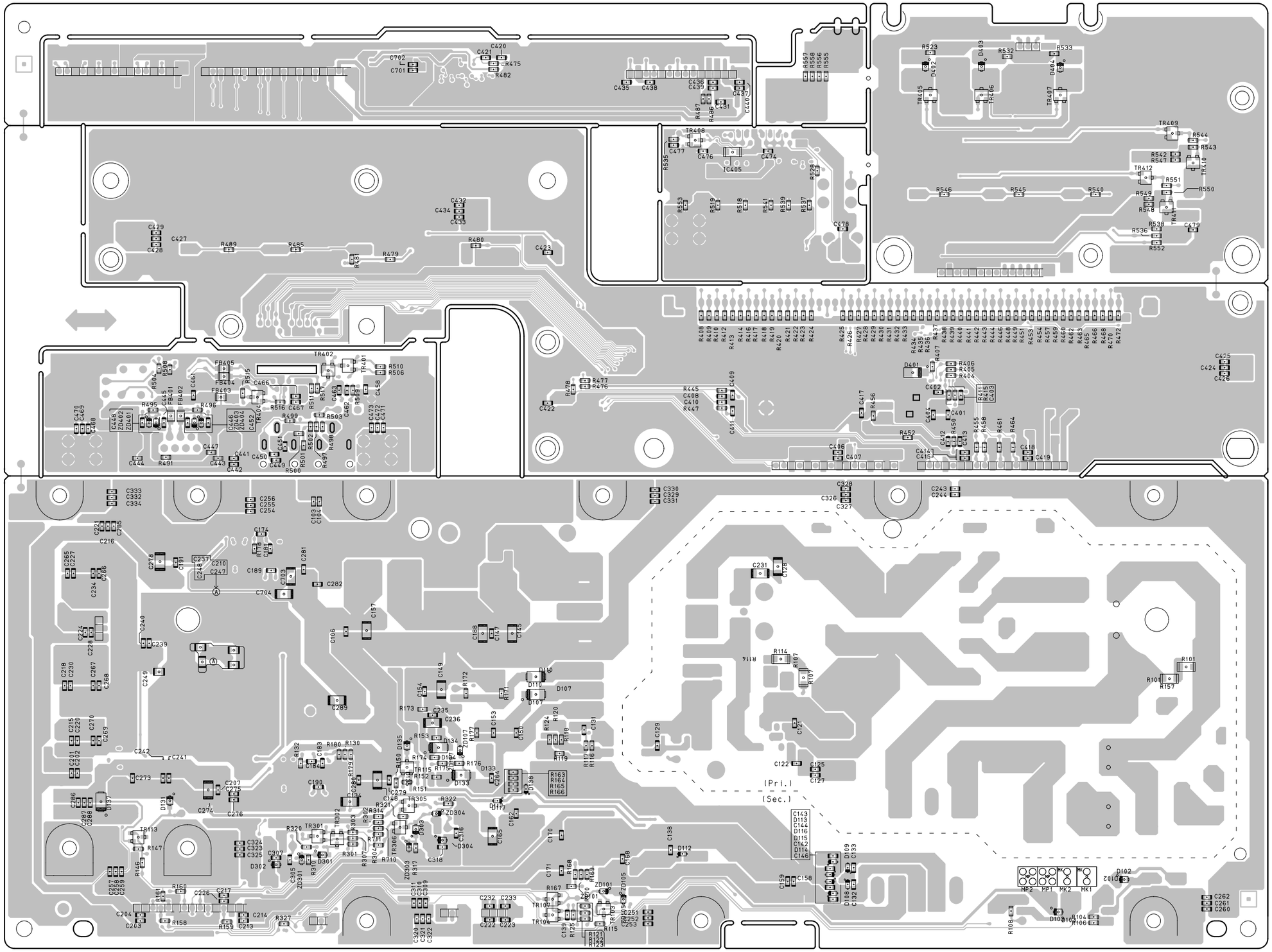
FOIL SIDE

8U-37AK53000 POWER P.W.B. UNIT(1/2)



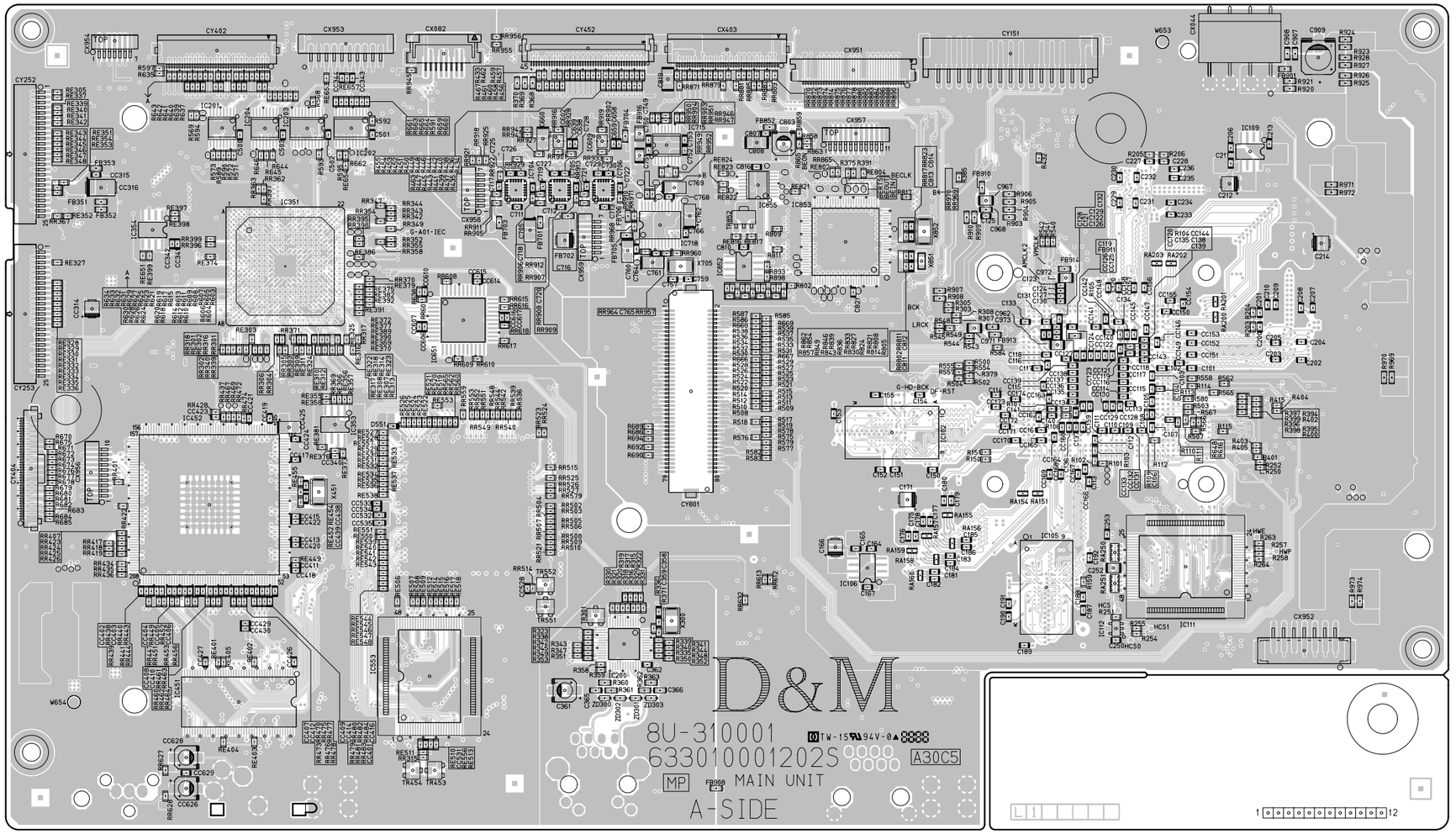
COMPONENT SIDE

8U-37AK53000 POWER P.W.B. UNIT(2/2)



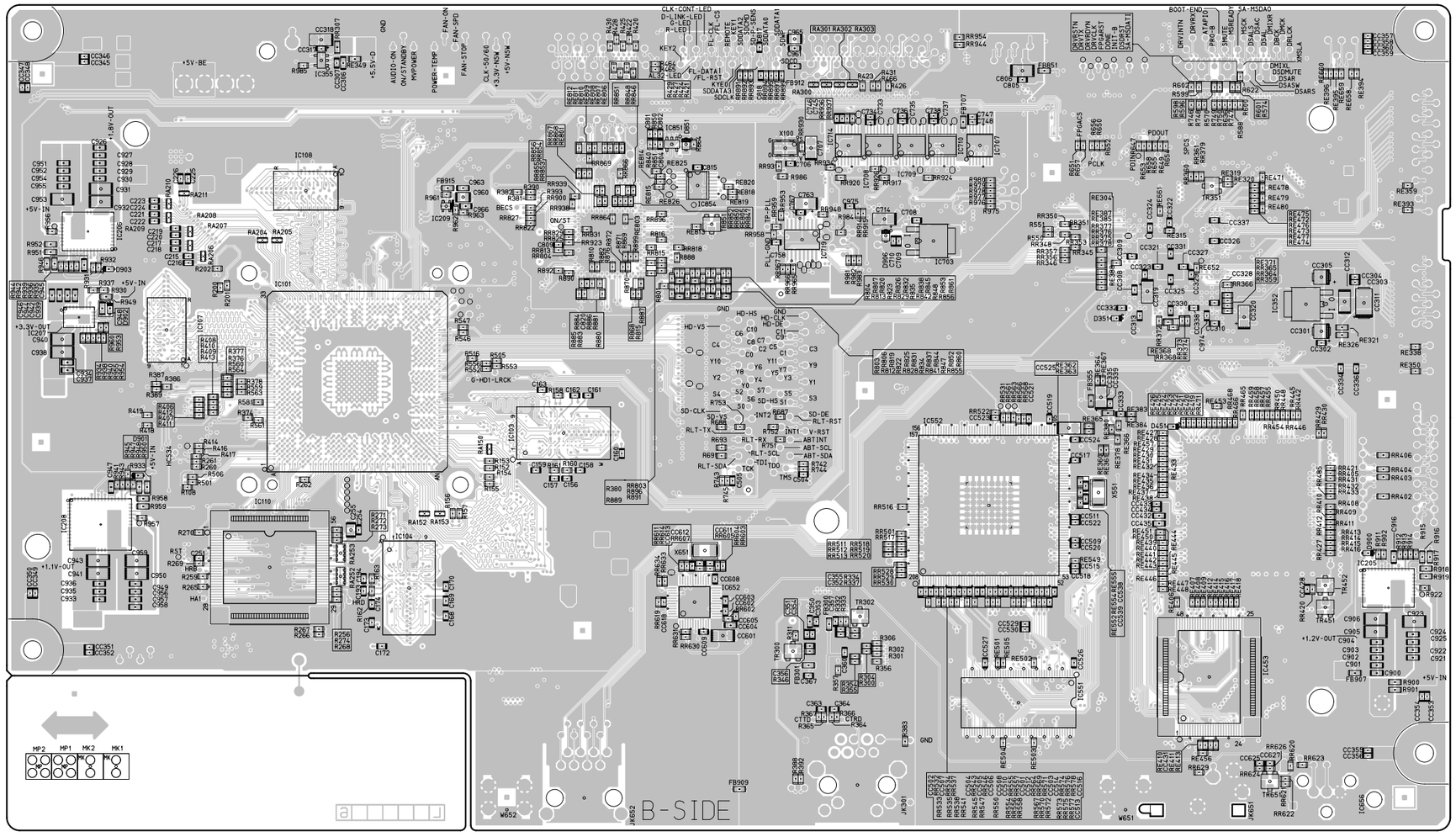
FOIL SIDE

8U-37AK55000 MAIN P.W.B. UNIT(1/2)



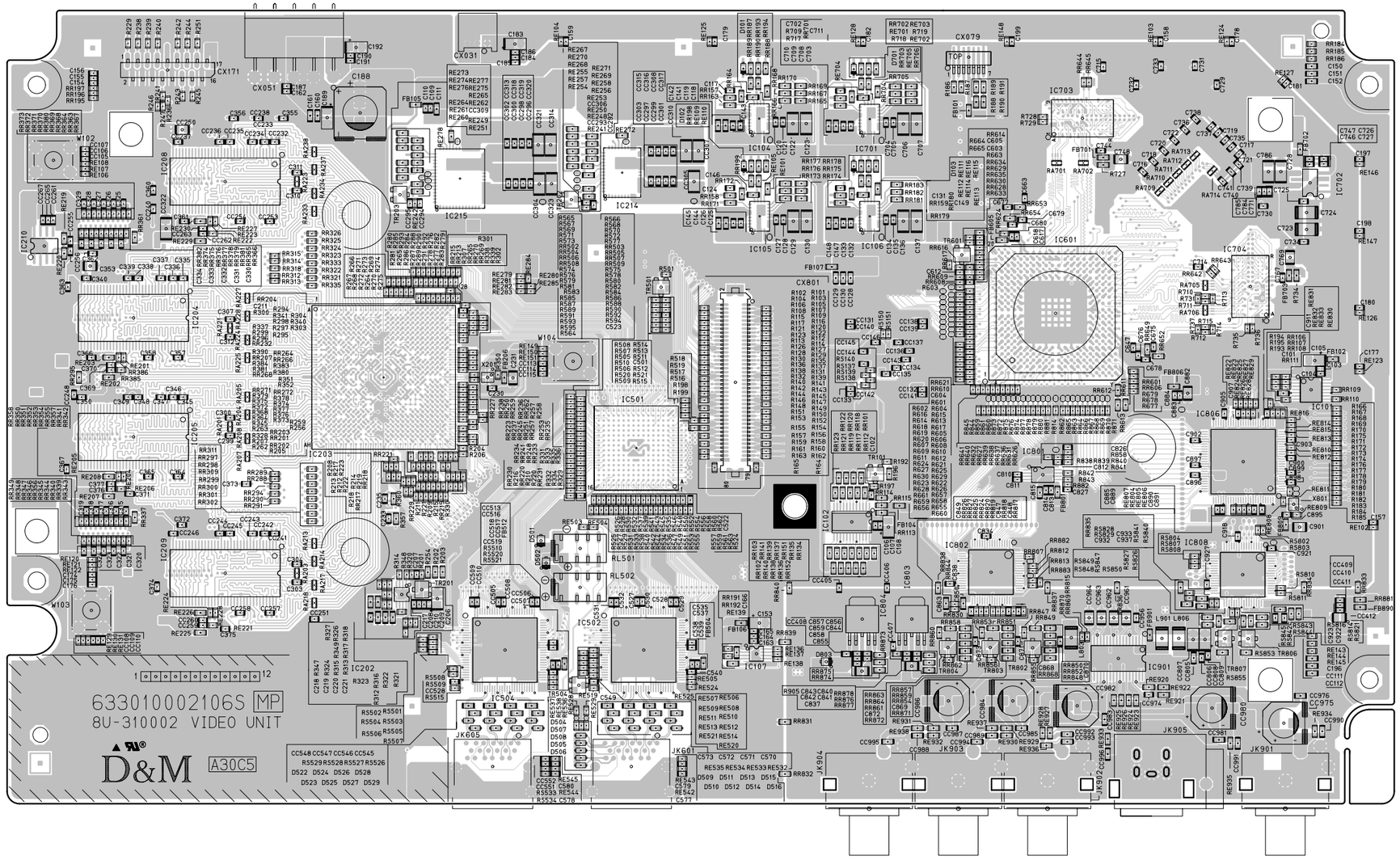
COMPONENT SIDE

8U-37AK55000 MAIN P.W.B. UNIT(2/2)



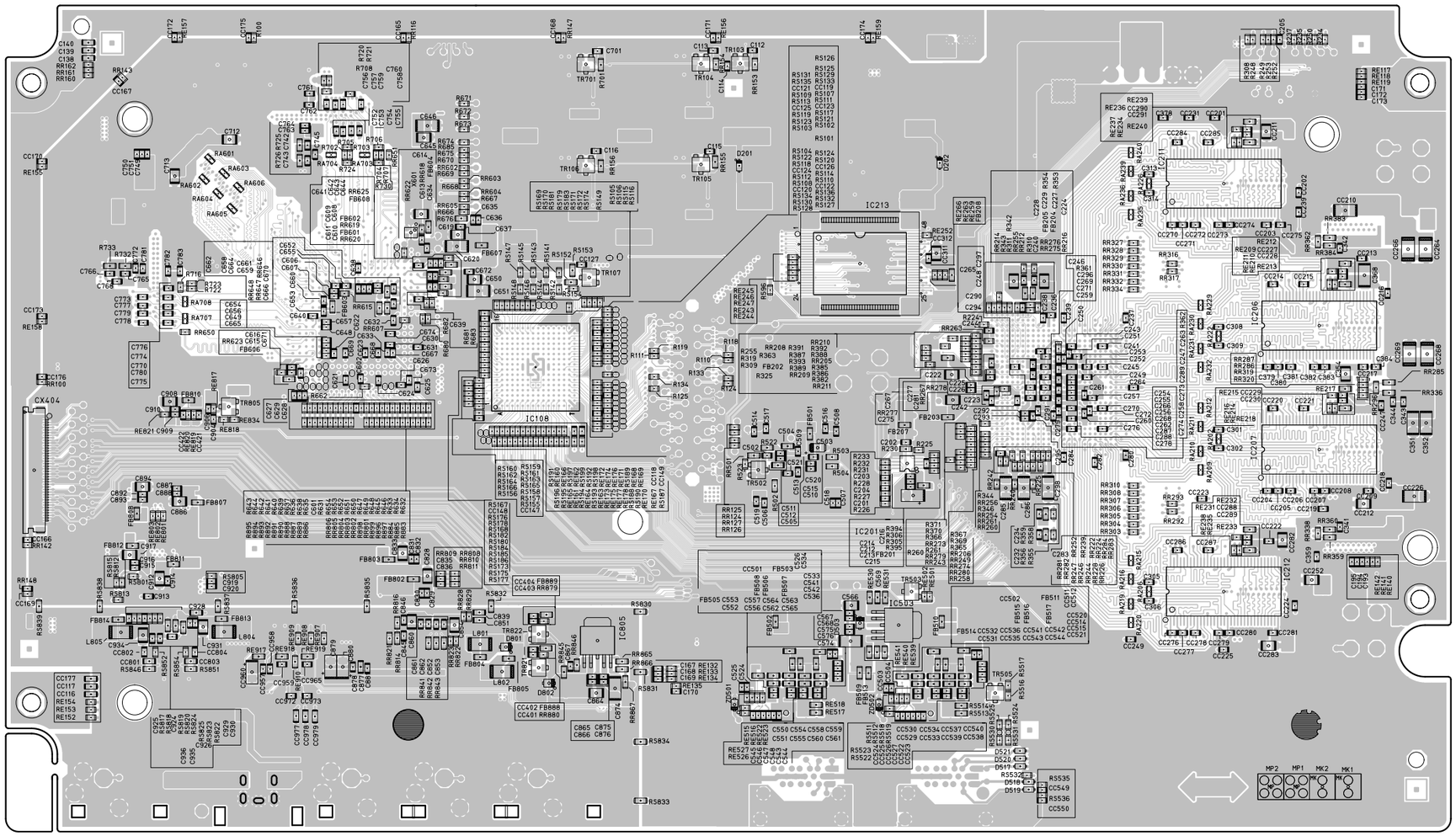
FOIL SIDE

8U-310002 VIDEO P.W.B. UNIT(1/2)



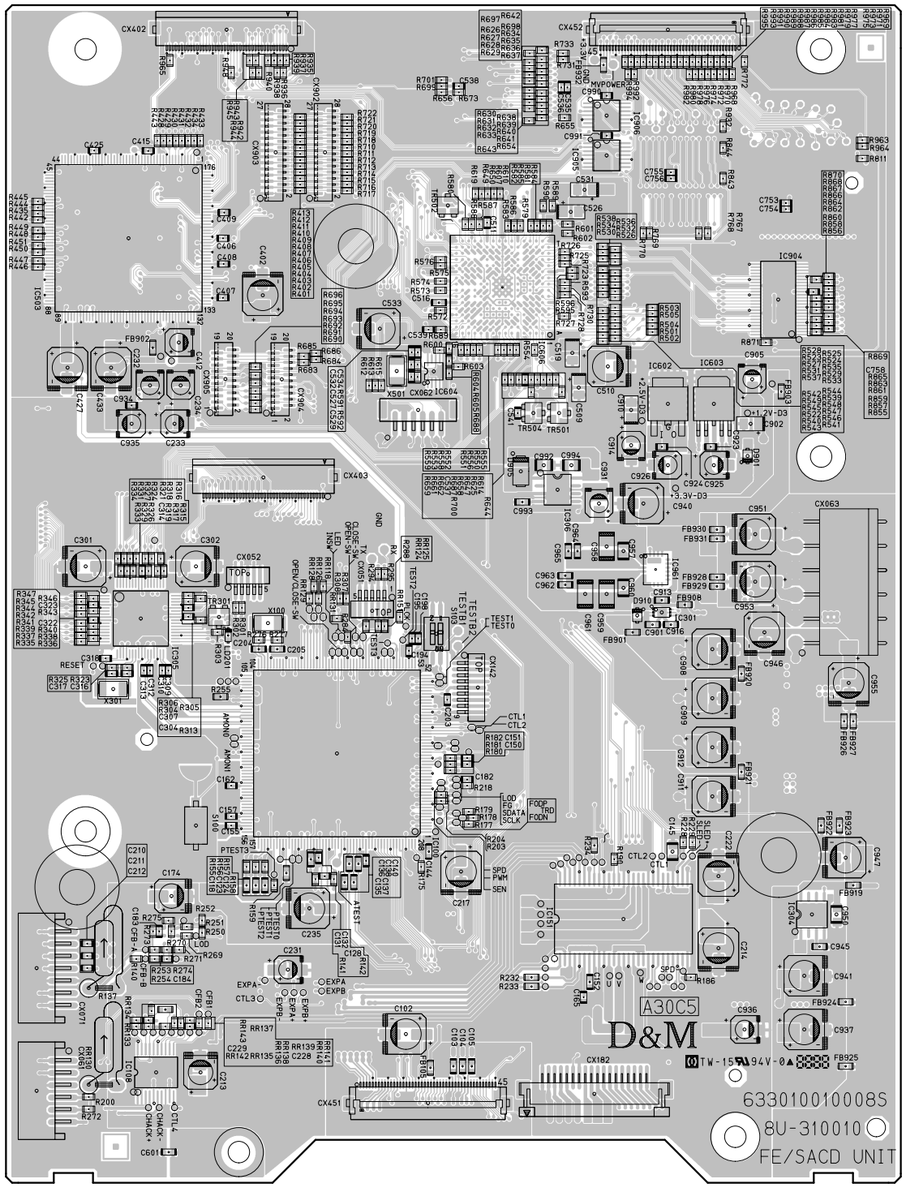
COMPONENT SIDE

8U-310002 VIDEO P.W.B. UNIT(2/2)

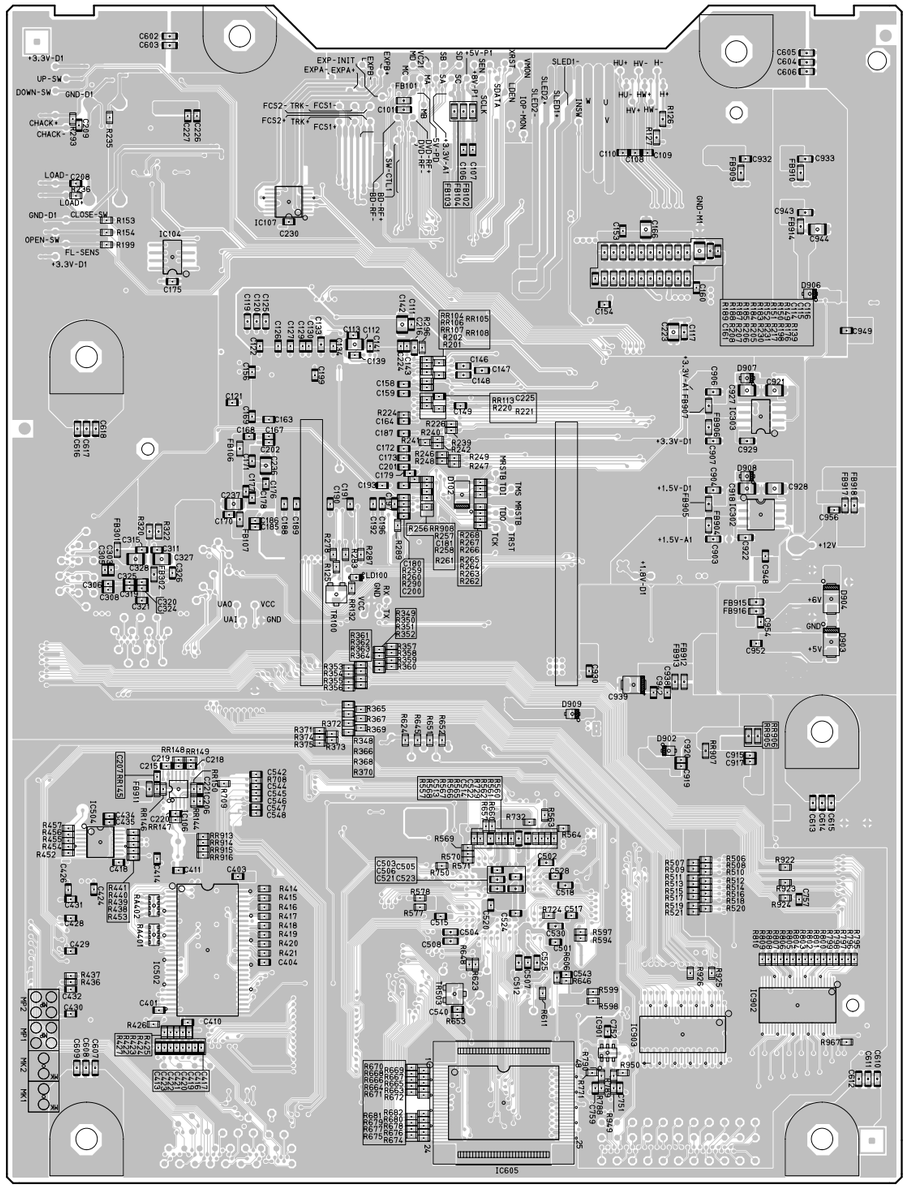


FOIL SIDE

8U-310010 FE/SACD P.W.B. UNIT

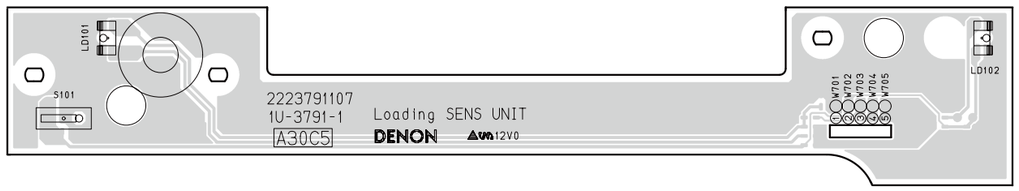


COMPONENT SIDE



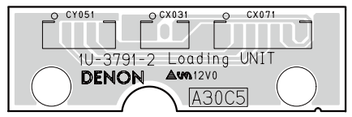
FOIL SIDE

1U-3791 FGCX P.W.B. UNIT

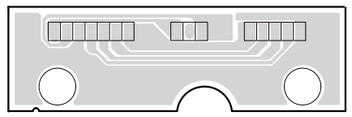


COMPONENT SIDE

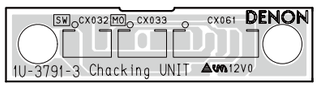
FOIL SIDE



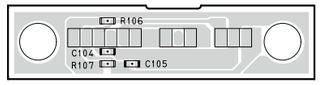
COMPONENT SIDE



FOIL SIDE

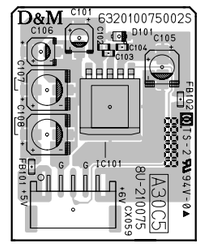


COMPONENT SIDE



FOIL SIDE

8U-210075A FE REG PWB UNIT ASSY



FOIL SIDE

NOTE FOR PARTS LIST

1. Parts for which "nsp" is indicated on this table cannot be supplied.
2. When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
3. Ordering part without stating its part number can not be supplied.
4. Part indicated with the mark "★" is not illustrated in the exploded view.
5. Not including General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
6. Not including General-purpose Carbon Chip Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.:

RN	14K	2E	182	G	FR
Type	Shape and per-formance	Power	Resist-ance	Allowable error	Others

RD : Carbon	2B : 1/8 W	F : ±1%	P : Pulse-resistant type
RC : Composition	2E : 1/4 W	G : ±2%	NL : Low noise type
RS : Metal oxide film	2H : 1/2 W	J : ±5%	NB : Non-burning type
RW: winding	3A : 1 W	K : ±10%	FR : Fuse-resistor
RN : Metal film	3D : 2 W	M : ±20%	F : Lead wire forming
RK : Metal mixture	3F : 3 W		
	3H : 5 W		

＊ Resistance

1 8 2 ⇨ 1800ohm=1.8kohm
- 2: Indicates number of zeros after effective number.
- 18: 2-digit effective number.

1 R 2 ⇨ 1.2ohm
- 2: 1-digit effective number.
- 1R: 2-digit effective number, decimal point indicated by R.

: Units: ohm

● Capacitors

Ex.:

CE	04W	1H	3R2	M	BP
Type	Shape and per-formance	Dielectric strength	Capacity	Allowable error	Others

CE : Aluminum foil electrolytic	0J : 6.3 V	F : ±1%	HS : High stability type
CA : Aluminium solid electrolytic	1A : 10 V	G : ±2%	BP : Non-polar type
CS : Tantalum electrolytic	1C : 16 V	J : ±5%	HR : Ripple-resistant type
CQ : Film	1E : 25 V	K : ±10%	DL : For change and discharge
CK : Ceramic	1V : 35 V	M : ±20%	HF : For assuring high requency
CC : Ceramic	1H : 50 V	Z : ±80%	U : UL part
CP : Oil	2A : 100 V	: - 20%	C : CSA part
CM: Mica	2B : 125 V	P : +100%	W : UL-CSA part
CF : Metallized	2C : 160 V	C : ±0.25pF	F : Lead wire forming
CH : Metallized	2D : 200 V	D : ±0.5pF	
	2E : 250 V	= : Others	
	2H : 500 V		
	2J : 630 V		

＊ Capacity (electrolyte only)

2 2 2 ⇨ 2200 μF
- 2: Indicates number of zeros after effective number.
- 22: 2-digit effective number.

・Units: μF.

2 R 2 ⇨ 2.2 μF
- 2: 1-digit effective number.
- 2R: 2-digit effective number, decimal point indicated by R

・Units: μF.

＊ Capacity (except electrolyte)

2 2 2 ⇨ 2200pF=0.0022 μF
- 2: Indicates number of zeros after efective number. (More than 2)
- 22: 2-digit effective number.

・Units:pF

2 2 1 ⇨ 220pF
- 1: Indicates number of zeros after effective numver. (0 or 1)
- 22: 2-digit effective number.

・Units:pF

・ When the dielectric strength is indicated in AC,"AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT

* Parts for which "nsp" is indicated on this table cannot be supplied.

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.
U : North America model N : Europe model S : Singapore model R : Russia model

8U-37AK51000 AUDIO PWB UNIT ASSY

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP							
	D801-804	00MHD20003710	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D805-808	00D2760401905	00D2760401905	1SS133T77 (TAPE)			
	D811,812	00MHD30021010	00MHD30021010	ZENER HZ6A3L(HITACHI)			
	DA01-04	00D2760401905	00D2760401905	1SS133T77 (TAPE)			
	DA05-12	00D2760401905	00D2760401905	1SS133T77 (TAPE)			
	DA13-16	00D2760401905	00D2760401905	1SS133T77 (TAPE)			
	DA17-19	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DE01-04	00MHD20003710	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	DE05-06	00MHD20002710	00MHD20002710	1D3 1A/200V			
	DE07,15	00D2760401905	00D2760401905	1SS133T77 (TAPE)			
	DE08,09	00MHD20002710	00MHD20002710	1D3 1A/200V			
	DE13,14	00MHD20002710	00MHD20002710	1D3 1A/200V			
	DG01-08	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DG09	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DG11,12	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DJ01	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DJ03	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DJ05	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DJ07	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DK01	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DK03	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DK05	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DK07	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DL02	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DL04	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DL06	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DL08	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DM01	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DM03	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DM05	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DM07	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DW02	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DW04	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DW06	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DW08	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DW12	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DX09	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DX11	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DX12	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	Q801	00MHT41415100	00MHT41415100	TRANSISTOR 2SD1415			
	Q802	00MHT21020100	00MHT21020100	2SB1020			
	Q803	00MHT109702A0	00MHT109702A0	2SC2240 GR OR BL TOSHIBA			
	Q804,805	00MHT109702A0	00MHT109702A0	2SA970 (GR) OR (BL) TOSHIBA			
	Q806	00MHT109702A0	00MHT109702A0	2SC2240 GR OR BL TOSHIBA			
	QA01-04	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QA05-06	00MHT109702A0	00MHT109702A0	2SC2240 GR OR BL TOSHIBA			
	QA07-10	00MHT109702A0	00MHT109702A0	2SA970 (GR) OR (BL) TOSHIBA			
	QA11-14	00MHT109702A0	00MHT109702A0	2SC2240 GR OR BL TOSHIBA			
	QA15,16	00MHT109702A0	00MHT109702A0	2SA970 (GR) OR (BL) TOSHIBA			
	QA17-18	00MHT109702A0	00MHT109702A0	2SC2240 GR OR BL TOSHIBA			
	QA19,20	00MHT109702A0	00MHT109702A0	2SA970 (GR) OR (BL) TOSHIBA			
	QA21,22	00MHT109702A0	00MHT109702A0	2SC2240 GR OR BL TOSHIBA			
	QA23,24	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6			
	QA25,26	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6			
	QA27-QA30	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			△5
	QA31	235810023600S	235810023600S	AK4399EQ			
	QA32	00MBA20035210	00MBA20035210	DTC114EU			
	QA33	00MBA10026210	00MBA10026210	DTA114EU			
	QA34	00MBA20035210	00MBA20035210	DTC114EU			
	QA35	00MBA10026210	00MBA10026210	DTA114EU			
	QA36	00MBA20035210	00MBA20035210	DTC114EU			
	QA37-38	00MBA10026210	00MBA10026210	DTA114EU			
	QA39	00MBA20035210	00MBA20035210	DTC114EU			
	QA40	00MBA20035210	00MBA20035210	DTC114EU			
	QA41	00D2623411906	00D2623411906	TC74VHC04FT			
	QE01	00D2630809006	00D2630809006	NJM7805FA(S)			
	QE03	00MHT10001000	00MHT10001000	A1048,A933S,A1267,ETC.			
	QE04	00MBA20035210	00MBA20035210	DTC114EU			
	QE06	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QE20-22	00MBA20035210	00MBA20035210	DTC114EU			
	QG01-04	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QG05,06	00MHX328731B0	00MHX328731B0	2SC2873 (Y)			
	QG07-10	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QG11-14	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QG15-16	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QG17-18	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QG19,20	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QG21-22	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QG23-24	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6			
	QG25-26	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6			
	QG27-30	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			△5
	QG31	235810023600S	235810023600S	AK4399EQ			
	QG32	00MBA20035210	00MBA20035210	DTC114EU			
	QG33	00MBA10026210	00MBA10026210	DTA114EU			
	QG34	00MBA20035210	00MBA20035210	DTC114EU			
	QG35	00MBA10026210	00MBA10026210	DTA114EU			
	QG36	00MBA20035210	00MBA20035210	DTC114EU			
	QG37,38	00MBA10026210	00MBA10026210	DTA114EU			
	QG39	00MBA20035210	00MBA20035210	DTC114EU			
	QG40	00D2623411906	00D2623411906	TC74VHC04FT			
	QG41	00MBA20035210	00MBA20035210	DTC114EU			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	QG42	00MBA10026210	00MBA10026210	DTA114EU			
	QJ01	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QJ03	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QJ05	00MHX328731B0	00MHX328731B0	2SC2873 (Y)			
	QJ07	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QJ09	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QJ11	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QJ13	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QJ15	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QJ17	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QJ19	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QJ21	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QJ23	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6			
	QJ25	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6			
	QJ27	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QJ29	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QK01	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QK03	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QK05,06	00MHX328731B0	00MHX328731B0	2SC2873 (Y)			
	QK07	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QK09	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QK11	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QK13	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QK15	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QK17	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QK19	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QK21	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QK23	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6			
	QK25	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6			
	QK27	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QK29	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QL02	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QL04	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QL08	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QL10	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QL12	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QL14	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QL16	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QL18	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QL20	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QL22	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QL24	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6			
	QL26	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6			
	QL28	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QL30	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QM01	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QM03	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QM05	00MHX328731B0	00MHX328731B0	2SC2873 (Y)			
	QM07	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QM09	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QM11	00MHX333241B0	00MHX333241B0	2SC3324 (B)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New	
	QM13	00MHX333241B0	00MHX333241B0	2SC3324 (B)				
	QM15	00MHX113121B0	00MHX113121B0	2SA1312 (B)				
	QM17	00MHX333241B0	00MHX333241B0	2SC3324 (B)				
	QM19	00MHX113121B0	00MHX113121B0	2SA1312 (B)				
	QM21	00MHX333241B0	00MHX333241B0	2SC3324 (B)				
	QM23	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6				
	QM25	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6				
	QM27	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))				⚠5
	QM29	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))				⚠5
	QW02	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W				
	QW04	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W				
	QW06	00MHX328731B0	00MHX328731B0	2SC2873 (Y)				
	QW08	00MHX113121B0	00MHX113121B0	2SA1312 (B)				
	QW10	00MHX113121B0	00MHX113121B0	2SA1312 (B)				
	QW12	00MHX333241B0	00MHX333241B0	2SC3324 (B)				
	QW14	00MHX333241B0	00MHX333241B0	2SC3324 (B)				
	QW16	00MHX113121B0	00MHX113121B0	2SA1312 (B)				
	QW18	00MHX333241B0	00MHX333241B0	2SC3324 (B)				
	QW20	00MHX113121B0	00MHX113121B0	2SA1312 (B)				
	QW22	00MHX333241B0	00MHX333241B0	2SC3324 (B)				
	QW24	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6				
	QW26	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6				
	QW28	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))				⚠5
	QW30	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))				⚠5
	QW31	235810023600S	235810023600S	AK4399EQ				
	QW32	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))				⚠5
	QW36	00MBA20035210	00MBA20035210	DTC114EU				
	QW40	00MBA20035210	00MBA20035210	DTC114EU				
	QW41	00MBA20035210	00MBA20035210	DTC114EU				
	QX31	235810023600S	235810023600S	AK4399EQ				
	QX32	00MBA20035210	00MBA20035210	DTC114EU				
	QX33	00MBA10026210	00MBA10026210	DTA114EU				
	QX34	00MBA20035210	00MBA20035210	DTC114EU				
	QX35	00MBA10026210	00MBA10026210	DTA114EU				
	QX36	00MBA20035210	00MBA20035210	DTC114EU				
	QX37	00MBA10026210	00MBA10026210	DTA114EU				
	QX38	00MBA10026210	00MBA10026210	DTA114EU				
	QX39	00MBA20035210	00MBA20035210	DTC114EU				
RESISTORS GROUP								
	R801,802	00D2412396986	00D2412396986	RD14B2E181JT(5)				
	R803,804	00D2412403934	00D2412403934	RD14B2E104JT(5)				
	R805,806	00D2412395987	00D2412395987	RD14B2E680JT(5)				
	R807,808	00D2412399970	00D2412399970	RD14B2E332JT(5)				
	R809,810	00D2412398971	00D2412398971	RD14B2E122JT(5)				
	R811,812	00D2412399970	00D2412399970	RD14B2E332JT(5)				
	RA01-04	00D2412398955	00D2412398955	RD14B2E102JT(5)				
	RA05-06	00D2412401978	00D2412401978	RD14B2E223JT(5)				
	RA07-10	00D2412400995	00D2412400995	RD14B2E103JT(5)				
	RA11-14	00D2412401978	00D2412401978	RD14B2E223JT(5)				
	RA15-18	00D2412399970	00D2412399970	RD14B2E332JT(5)				

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	RA19,20	00D2412401994	00D2412401994	RD14B2E273JT(5)			
	RA21-24	00D2412396944	00D2412396944	RD14B2E121JT(5)			
	RA25,26	00D2412395987	00D2412395987	RD14B2E680JT(5)			
	RA27-30	00D2412397998	00D2412397998	RD14B2E561JT(5)			
	RA31,32	00D2412396928	00D2412396928	RD14B2E101JT(5)			
	RA33,34	00D2412402919	00D2412402919	RD14B2E333JT(5)			
	RA35,36	nsp	nsp	0 OHM +- 5% 1/6W			
	RA37,38	00D2412397927	00D2412397927	RD14B2E271JT(5)			
	RA39-42	00D2412396928	00D2412396928	RD14B2E101JT(5)			
	RA43,44	00D2412397927	00D2412397927	RD14B2E271JT(5)			
	RA45-48	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RA49,50	nsp	nsp	220 OHM +- 5% 1/6W			
	RA51,52	00D2412402951	00D2412402951	RD14B2E473JT(5)			
	RA53,54	nsp	nsp	220 OHM +- 5% 1/6W			
	RA55,56	00D2412395990	00D2412395990	RD14B2E750JT(5)			
	RA63-A66	00D2412400911	00D2412400911	RD14B2E472JT(5)			
	RA67,68	00D2412402919	00D2412402919	RD14B2E333JT(5)			
	RA85	nsp	nsp	RM73B--330JT +1608			
	RA87,88	nsp	nsp	RM73B--0R0KT +1608			
	RA91,92	nsp	nsp	RM73B--0R0KT +1608			
	RA95,96	nsp	nsp	RM73B--0R0KT +1608			
	RE07	00D2412398955	00D2412398955	RD14B2E102JT(5)			
	RE11	nsp	nsp	RM73B--0R0KT +1608			
	RG05,06	00MNI01223110	00MNI01223110	22K OHM +- 1% 1/10W			
	RG07-10	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RG11-14	00MNI01223110	00MNI01223110	22K OHM +- 1% 1/10W			
	RG19,20	00MNI01273110	00MNI01273110	27K OHM +- 1% 1/10W			
	RG45-48	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RG49,50	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RG53,54	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RG85	nsp	nsp	RM73B--330JT +1608			
	RG87,88	nsp	nsp	RM73B--0R0KT +1608			
	RG91	nsp	nsp	RM73B--0R0KT +1608			
	RG94	nsp	nsp	RM73B--0R0KT +1608			
	RG96	nsp	nsp	RM73B--0R0KT +1608			
	RJ05	00MNI01123110	00MNI01123110	12K OHM +- 1% 1/10W			
	RJ07	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RJ09	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RJ11	00MNI01123110	00MNI01123110	12K OHM +- 1% 1/10W			
	RJ19	00MNI01103110	00MNI01103110	18K OHM +- 1% 1/10W			
	RJ45	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RJ47	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RJ49	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RJ53	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RK05	00MNI01123110	00MNI01123110	12K OHM +- 1% 1/10W			
	RK07	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RK09	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RK11	00MNI01123110	00MNI01123110	12K OHM +- 1% 1/10W			
	RK19	00MNI01103110	00MNI01103110	18K OHM +- 1% 1/10W			
	RK45	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RK47	00D2412393989	00D2412393989	RD14B2E100JT(5)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	RK49	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RK53	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RL06	00MNI01123110	00MNI01123110	12K OHM +- 1% 1/10W			
	RL08	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RL10	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RL12	00MNI01123110	00MNI01123110	12K OHM +- 1% 1/10W			
	RL20	00MNI01103110	00MNI01103110	18K OHM +- 1% 1/10W			
	RL46	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RL48	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RL50	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RL54	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RM05	00MNI01123110	00MNI01123110	12K OHM +- 1% 1/10W			
	RM07	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RM09	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RM11	00MNI01123110	00MNI01123110	12K OHM +- 1% 1/10W			
	RM19	00MNI01103110	00MNI01103110	18K OHM +- 1% 1/10W			
	RM45	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RM47	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RM49	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RM53	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RW01	00MNI01273110	00MNI01273110	27K OHM +- 1% 1/10W			
	RW03	00MNI01273110	00MNI01273110	27K OHM +- 1% 1/10W			
	RW08	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RW10	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RW14	00MNI05473110	00MNI05473110	47K OHM +- 5% 1/10W			
	RW20	00MNI01273110	00MNI01273110	27K OHM +- 1% 1/10W			
	RW46	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RW48	00D2412393989	00D2412393989	RD14B2E100JT(5)			
	RW50	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RW54	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RW85	nsp	nsp	RM73B--330JT +1608			
	RW87,88	nsp	nsp	RM73B--0R0KT +1608			
	RW95	nsp	nsp	RM73B--0R0KT +1608			
	RW96	nsp	nsp	RM73B--0R0KT +1608			
	RX85	nsp	nsp	RM73B--330JT +1608			
	RX87,RX88	nsp	nsp	RM73B--0R0KT +1608			
	RX95	nsp	nsp	RM73B--0R0KT +1608			
CAPACITORS GROUP							
	C801,802	00MOB47803590	00MOB47803590	4700U 35V(LAO)(LF)-BLOCK AQL-0298 ELNA			
	C803,804	00MOA107016R0	00MOA107016R0	ROA-16V 101M -H3#PE - T2 (100UF 16V)			
	C805,806	00MOA477016Z0	00MOA477016Z0	ROS-16V 471M - I6#PE - S13 (470UF 16V)			
	C807-810	nsp	nsp	CK73F1E104ZT +1608			
	CA01,02	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CA03-06	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CA07-10	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CA11,12	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CA13-16	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CA19-A22	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	CA23,24	00MOA227016R0	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			
	CA27,28	nsp	nsp	CK73F1E104ZT +1608			
	CA29	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CA30	nsp	nsp	CK73F1E104ZT +1608			
	CA31	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CA32	nsp	nsp	CK73F1E104ZT +1608			
	CA33	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CA34	nsp	00MDD95101360	100PF +- 5% UJ			
	CA35	nsp	00MDD95101360	100PF +- 5% UJ			
	CA36	nsp	00MDD95101360	100PF +- 5% UJ			
	CA37	nsp	00MDD95101360	100PF +- 5% UJ			
	CA38-41	nsp	nsp	CK73F1E104ZT +1608			
	CA42	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CA45,46	nsp	nsp	47PF			
	CA50	nsp	nsp	CK73F1E104ZT +1608			
	CA55-58	00MOA476025Z0	00MOA476025Z0	ROS-25V 470M - G3#PE - T2 (47UF 25V)			
	CE01	00MOB33802570	00MOB33802570	3300U 25V(ALP) (LF)-BLOCK CAP			
	CE02	00MOA47701620	00MOA47701620	470UF 16V M RA-2			
	CE03	00MOA47705020	00MOA47705020	470 UF M 50V RA-2			
	CE04	00MOA10510020	00MOA10510020	1UF100V RA-2TYPE			
	CE08	00MOA47705020	00MOA47705020	470 UF M 50V RA-2			
	CG01,02	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CG03-06	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CG07-10	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CG11,12	nsp	00MDD95101360	100PF +- 5% UJ			
	CG13-16	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CG19-22	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CG23,24	00MOA227016R0	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			
	CG27-28	nsp	nsp	CK73F1E104ZT +1608			
	CG29	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CG30	nsp	nsp	CK73F1E104ZT +1608			
	CG31	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CG32	nsp	nsp	CK73F1E104ZT +1608			
	CG33	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CG34-37	nsp	00MDD95101360	100PF +- 5% UJ			
	CG38,39	nsp	nsp	CK73F1E104ZT +1608			
	CG40-41	nsp	nsp	CK73F1E104ZT +1608			
	CG42	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CG45,46	nsp	nsp	47PF			
	CG49-50	nsp	nsp	CK73F1E104ZT +1608			
	CG51	nsp	nsp	CK73F1E104ZT +1608			
	CJ01	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CJ03	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CJ05	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CJ07	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CJ09	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CJ11	nsp	00MDD95101360	100PF +- 5% UJ			
	CJ13	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CJ15	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CJ19,20	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CJ21	00MOF15101540	00MOF15101540	100PF J 100V APSV			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	CK01	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CK03	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CK05	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CK07	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CK09	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CK11	nsp	00MDD95101360	100PF +- 5% UJ			
	CK13	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CK15	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CK19,20	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CK21	00MOF15101540	00MOF15101540	100PF J 100V APSV			
	CL02	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CL04	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CL06	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CL08	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CL10	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CL12	nsp	00MDD95101360	100PF +- 5% UJ			
	CL14	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CL16	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CL19,20	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CL22	00MOF15101540	00MOF15101540	100PF J 100V APSV			
	CM01	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CM03	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CM07	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CM09	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CM11	nsp	00MDD95101360	100PF +- 5% UJ			
	CM13	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CM15	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CM19,20	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CM22	00MOF15101540	00MOF15101540	100PF J 100V APSV			
	CW02	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CW04	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CW06	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CW08	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CW10	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CW12	nsp	00MDD95101360	100PF +- 5% UJ			
	CW14	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CW16	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CW20	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CW22	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CW2-28	nsp	nsp	CK73F1E104ZT +1608			
	CW23,24	00MOA227016R0	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			
	CW29	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CW30	nsp	nsp	CK73F1E104ZT +1608			
	CW31	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CW32	nsp	nsp	CK73F1E104ZT +1608			
	CW33	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CW34	nsp	00MDD95101360	100PF +- 5% UJ			
	CW35-37	nsp	00MDD95101360	100PF +- 5% UJ			
	CW42	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CW45	nsp	nsp	47PF			
	CX23,24	00MOA227016R0	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	CX27,28	nsp	nsp	CK73F1E104ZT +1608			
	CX29	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CX30	nsp	nsp	CK73F1E104ZT +1608			
	CX31	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CX32	nsp	nsp	CK73F1E104ZT +1608			
	CX33	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CX34-37	nsp	nsp	100PF +- 5% UJ			
	CX38-41	nsp	nsp	CK73F1E104ZT +1608			
	CX42	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CX45,46	nsp	nsp	CK73F1E104ZT +1608			
OTHERS PARTS GROUP							
	121L	00M309V267010	00M309V267010	HEAT SINK			
	122L	00M51100308M9	00M51100308M9	SCREW			
	351G	00M257K109010	00M257K109010	SHIELD			
⚠	F801,802	00MFS20160200	00MFS20160200	FUSE 1.6A 250V SEMKO VDE			
⚠	FE01	00MFS20160200	00MFS20160200	FUSE 1.6A 250V SEMKO VDE			
	J801	00MYP06010460	00MYP06010460	B7B-EH			
	J804,805	00MYP0600391X	00MYP0600391X	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING			
	J806	00MYP0601045X	00MYP0601045X	B5B-EH-TS (LF)(SN) 5P RADIAL TAPING			
	J807	00MYP0600384X	00MYP0600384X	B6B-EH-TS (LF)(SN) 6P RADIAL TAPING JST			
	J808,809	nsp	nsp	GND TERMINAL FOR PCB			
	JA01,02	643010023605S	643010023605S	1P PIN JACK(AU,shield)			
	JA03	nsp	nsp	M1698-A NEJI TERMINAL			
	JA51	00D2051260004	00D2051260004	25P FFC BASE (9610SA			
	JA52	00MYJ07019450	00MYJ07019450	21FMN-BTRK FFC CONNECTOR 1MM			
	JE01	00MYJ06006220	00MYJ06006220	B2B-PH-K-S (LF)(SN)			
	JG01,02	643010023605S	643010023605S	1P PIN JACK(AU,shield)			
	JW02	643010023605S	643010023605S	1P PIN JACK(AU,shield)			
	JG03	nsp	nsp	M1698-A NEJI TERMINAL			
	JG04	nsp	nsp	GND TERMINAL FOR PCB			
	JG51	00MYP0600391X	00MYP0600391X	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING			
	JG52	00MYP0601045X	00MYP0601045X	B5B-EH-TS (LF)(SN) 5P RADIAL TAPING			
	JG53	00D2051260004	00D2051260004	25P FFC BASE (9610SA			
	JG54	00MYJ07019450	00MYJ07019450	21FMN-BTRK FFC CONNECTOR 1MM			
	JH01,02	00MYP04000760	00MYP04000760	CONNECTOR 2P B3P-VH			
	JX01,02	644010087206S	644010087206S	NC3MAH			
	JX03,04	nsp	nsp	M1698-A NEJI TERMINAL			
	JX05	nsp	nsp	GND TERMINAL FOR PCB			
	JX51	00MYP0600391X	00MYP0600391X	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING			
	JX52	00MYP0600384X	00MYP0600384X	B6B-EH-TS (LF)(SN) 6P RADIAL TAPING JST			
	JX53	00MYJ07019450	00MYJ07019450	21FMN-BTRK FFC CONNECTOR 1MM			

8U-37AK52000 AUDIO PWB UNIT ASSY

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP							
	QC02	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QC04	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QC06	00MHX328731B0	00MHX328731B0	2SC2873 (Y)			
	QC08	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QC10	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QC12	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QC14	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QC16	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QC18	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QC20	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QC22	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QC24	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6			
	QC26	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6			
	QC28	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QC30	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QC31	235810023600S	235810023600S	AK4399EQ			
	QC36	00MBA20035210	00MBA20035210	DTC114EU			
	QC38	00MBA10026210	00MBA10026210	DTA114EU			
	QF01	00D2623606902	00D2623606902	PT6302-R-001(L)			
	QF02-QF04	00MBA20035210	00MBA20035210	DTC114EU			
	QF06	00MBA10026210	00MBA10026210	DTA114EU			
	QP01,QP02	00MBA20035210	00MBA20035210	DTC114EU			
	QP03,QP04	00MBA10026210	00MBA10026210	DTA114EU			
	QS01-QS04	00MHF203691B0	00MHF203691B0	2SK369 BL VGDS-40V PD0.4W			
	QS05,QS06	00MHX328731B0	00MHX328731B0	2SC2873 (Y)			
	QS07-QS09	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QS10	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QS11-QS13	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QS14	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QS15,QS16	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QS17,QS18	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QS19,QS20	00MHX113121B0	00MHX113121B0	2SA1312 (B)			
	QS21,QS22	00MHX333241B0	00MHX333241B0	2SC3324 (B)			
	QS23,QS24	00D2730281906	00D2730281906	2SC2705 (O)/(Y)TPE6			
	QS25,QS26	00D2710168900	00D2710168900	2SA1145 (O)/(Y)TPE6			
	QS27-QS30	00MBA20016050	00MBA20016050	HN1C03F(B)(NPNX2(MUTING))			⚠5
	QS31	235810023600S	235810023600S	AK4399EQ			
	QS32	00MBA20035210	00MBA20035210	DTC114EU			
	QS33	00MBA10026210	00MBA10026210	DTA114EU			
	QS34	00MBA20035210	00MBA20035210	DTC114EU			
	QS35	00MBA10026210	00MBA10026210	DTA114EU			
	QS36	00MBA20035210	00MBA20035210	DTC114EU			
	QS37,QS38	00MBA10026210	00MBA10026210	DTA114EU			
	QS39	00MBA20035210	00MBA20035210	DTC114EU			
	QT01	00D2730470908	00D2730470908	2SC4116-Y-TE85L +C			
	DC02	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DC04	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DC06	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DC08	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	DC12	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DS01-DS04	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DS05-DS08	00MHZ20018050	00MHZ20018050	1SS302 (TE85L F) (TOSHIBA)			
	DS09	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DS11,DS12	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DF01,DF02	00MHI10042080	00MHI10042080	SECT1E01C-S			
	DF03	00MHZ21005000	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	DF10	00D2760760905	00D2760760905	MTZJ3.6B T77			
	DP01	00D3939650007	00D3939650007	LED(SPR-39MVW)			
	FT01	259810001507S	259810001507S	nanoSMDC075F			
	ZF01	00MHW10004210	00MHW10004210	RPM6936-V4 (IR SENSOR)			
	VF01	00D3938098000	00D3938098000	FL TUBE(15-BT-114GNK)			
RESISTORS GROUP							
	RC06	00MNI01223110	00MNI01223110	22K OHM +- 1% 1/10W			
	RC08	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RC10	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RC12	00MNI01223110	00MNI01223110	22K OHM +- 1% 1/10W			
	RC14	00MNI01223110	00MNI01223110	22K OHM +- 1% 1/10W			
	RC20	00MNI01273110	00MNI01273110	27K OHM +- 1% 1/10W			
	RC46	nsp	nsp	RD14B2E100JT(5)			
	RC48	nsp	nsp	RD14B2E100JT(5)			
	RC50	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RC54	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RC85	nsp	nsp	RM73B--330JT +1608			
	RC87,RC88	nsp	nsp	RM73B--0R0KT +1608			
	RC95	nsp	nsp	RM73B--0R0KT +1608			
	RF01,RF02	nsp	nsp	RM73B--0R0KT +1608			
	RF03,RF04	nsp	nsp	RM73B--102JT +1608			
	RF10	nsp	nsp	RM73B--132JT +1608			
	RF16	nsp	nsp	RM73B--102JT +1608			
	RF21-RF24	nsp	nsp	RM73B--0R0KT +1608			
	RF25	nsp	nsp	RM73B--102JT +1608			
	RF81	nsp	nsp	RM73B--221JT +1608			
	RF82	nsp	nsp	RM73B--221JT +1608			
	RP03	nsp	nsp	RM73B--132JT +1608			
	RS05,RS06	00MNI01223110	00MNI01223110	22K OHM +- 1% 1/10W			
	RS07-RS10	00MNI01103110	00MNI01103110	10K OHM +- 1% 1/10W			
	RS11-RS14	00MNI01223110	00MNI01223110	22K OHM +- 1% 1/10W			
	RS19,RS20	00MNI01273110	00MNI01273110	27K OHM +- 1% 1/10W			
	RS45-RS48	nsp	nsp	RD14B2E100JT(5)			
	RS49-RS54	00MNI05221110	00MNI05221110	220 OHM +- 5% 1/10W			
	RS85	nsp	nsp	RM73B--330JT +1608			
	RS87,RS88	nsp	nsp	RM73B--0R0KT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	RT07	nsp	nsp	RM73B--0R0KT +1608			
	RT09	nsp	nsp	RM73B--0R0KT +1608			
	RT13-RT16	nsp	nsp	RM73B--0R0KT +1608			
CAPACITORS GROUP							
	CC02	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CC04	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CC06	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CC08	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CC10	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CC12	nsp	00MDD95101360	100PF +- 5% UJ			
	CC14	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CC16	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CC20	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CC22	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CC23,CC24	00MOA227016R0	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			
	CC27,CC28	nsp	nsp	CK73F1E104ZT +1608			
	CC29	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CC30	nsp	nsp	CK73F1E104ZT +1608			
	CC31	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CC32	nsp	nsp	CK73F1E104ZT +1608			
	CC33	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CC34-CC37	nsp	00MDD95101360	100PF +- 5% UJ			
	CC42	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CC46	nsp	nsp	47PF			
	CF01	nsp	nsp	CK73F1E104ZT +1608			
	CF03	nsp	nsp	CK73F1E104ZT +1608			
	CF04	00D2570504966	00D2570504966	CC73CH1H390JT +1608			
	CF05	nsp	nsp	CK73F1E104ZT +1608			
	CF06	00D2574012917	00D2574012917	CE67C1C220MT (RV2) +REF			
	CF07,CF08	nsp	nsp	CK73F1E104ZT +1608			
	CF09	nsp	nsp	CK73F1E104ZT +1608			
	CF10	nsp	00MDK96331300	330PF (GR39)			
	CF11	00D2574012917	00D2574012917	CE67C1C220MT (RV2) +REF			
	CF12-CF15	00D2570504966	00D2570504966	CC73CH1H390JT +1608			
	CP01,CP02	nsp	nsp	CK73F1E104ZT +1608			
	CP03,CP04	nsp	nsp	CK73F1E104ZT +1608			
	CS01,CS02	00MOF55561570	00MOF55561570	DTG100VDC561J-FC			
	CS03-CS06	00MOF55821570	00MOF55821570	DTG100VDC821J-FC			
	CS07-CS10	00MOF55181560	00MOF55181560	DAMG630VDC181J-FC			
	CS11,CS12	nsp	00MDD95101360	100PF +- 5% UJ			
	CS13-CS16	00MOA227016Z0	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	CS19-CS22	00MOA227025R0	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	CS23,CS24	00MOA227016R0	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			
	CS27,CS28	nsp	nsp	CK73F1E104ZT +1608			
	CS29	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CS30	nsp	nsp	CK73F1E104ZT +1608			
	CS31	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CS32	nsp	nsp	CK73F1E104ZT +1608			
	CS33	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CS34	nsp	00MDD95101360	100PF +- 5% UJ			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	CS35-CS37	nsp	00MDD95101360	100PF +- 5% UJ			
	CS38-CS40	nsp	nsp	CK73F1E104ZT +1608			
	CS42	00MOA107025R0	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	CS45,CS46	nsp	nsp	47PF			
	CT01-CT03	nsp	nsp	CK73F1E104ZT +1608			
	CT04	00MOA47601620	00MOA47601620	47 UF M 16V RA-2			
OTHERS PARTS GROUP							
	100B	471510027005M	471510027005M	BUFFER IR UD9004 37AK			
	202L	00D4610991026	00D4610991026	RUBBER SHEET			
	210L	00D4610415007	00D4610415007	RUBBER SHEET			
	J852,J853	00MYP0600391X	00MYP0600391X	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING			
	JC02	643010023605S	643010023605S	1P PIN JACK(AU,shield)			
	JS01,JS02	643010023605S	643010023605S	1P PIN JACK(AU,shield)			
	JF01	645010030500S	645010030500S	40P FFC BASE(FY-BMGB-TB)			
	JF02	00MYJ06006440	00MYJ06006440	S4B-PH-K-S (LF)(SN)			
	JF03	00MYJ06006430	00MYJ06006430	S3B-PH-K-S (LF)(SN)			
	JF04	00MYJ06006450	00MYJ06006450	S5B-PH-K-S (LF)(SN)			
	JF05	00D2051397003	00D2051397003	18P FFC BASE(9610SA)			
	JF06,JF07	645010030500S	645010030500S	40P FFC BASE(FY-BMGB-TB)			
	JF08	00MYJ06006420	00MYJ06006420	S2B-PH-K-S (LF)(SN)			
	JP03	00MYJ06006430	00MYJ06006430	S3B-PH-K-S (LF)(SN)			
	JP04	00MYJ06006450	00MYJ06006450	S5B-PH-K-S (LF)(SN)			
	JS03	nsp	nsp	M1698-A NEJI TERMINAL			
	JS10,JS11	nsp	nsp	GND TERMINAL FOR PCB			
	JS52	00MYP0601045X	00MYP0601045X	B5B-EH-TS (LF)(SN) 5P RADIAL TAPING			
	JS53	00MYJ07019450	00MYJ07019450	21FMN-BTRK FFC CONNECTOR 1MM			
	JS54	00MYP0601045X	00MYP0601045X	B5B-EH-TS (LF)(SN) 5P RADIAL TAPING			
	JT01	644810076505S	644810076505S	SDK-9BNS-K13-GN(LF)(SN)			
	JT02,JT03	nsp	nsp	M1698 PWB GND TERMINAL WITH M3			
	JT05	00D2051397003	00D2051397003	18P FFC BASE(9610SA)			
	SF01-SF06	00MSP01013370	00MSP01013370	EVQ11L05R H/5MM 160GF			
	SP01-SP05	00MSP01013370	00MSP01013370	EVQ11L05R H/5MM 160GF			
	SP06	00MSP01013370	00MSP01013370	EVQ11L05R H/5MM 160GF			

8U-37AK530002 POWER PWB UNIT ASSY(U model)
8U-37AK530003 POWER PWB UNIT ASSY(N, S, R model) ⚠2

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP							
	IC101	231810041507S	231810041507S	SI-8005Q-TL			
	IC103	231010029703S	231010029703S	STRY6476	for N, S, R		⚠2
	IC103	231010030703S	231010030703S	STRY6456			
	IC104	231810040504S	231810040504S	MAX8577EUB+T			
	IC106	00D2631283906	00D2631283906	KIA7809AF			
	IC107	231810041507S	231810041507S	SI-8005Q-TL			
	IC108	00D2623047008	00D2623047008	PC123Y22			
	IC110	00D2631244000	00D2631244000	KIA78D05PI-U/P			
	IC111	00D2631240907	00D2631240907	BA33B00FP-E2			
	IC403	00D2623571901	00D2623571901	HIN202EIBNZ-T			
	IC404	00D2622580906	00D2622580906	CXA1511M +C			
	TR101,TR102	00D2730468907	00D2730468907	KTC3199-GRAT/P			
	TR103	00D2690082902	00D2690082902	DTC114EKT96 +C			
	TR104	00D2730464901	00D2730464901	KTC3875S-GRRTK/P			
	TR105,TR106	222850007501S	222850007501S	TPCA8012-H			
	TR107	00D2690082902	00D2690082902	DTC114EKT96 +C			
	TR113	00D2730464901	00D2730464901	KTC3875S-GRRTK/P			
	TR115	00D2730464901	00D2730464901	KTC3875S-GRRTK/P			
	TR301,TR302	00D2690192902	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR303	00D2690184907	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR304	00D2740188905	00D2740188905	2SD1858TV2(Q/R)			
	TR305,TR306	00D2690192902	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR307	00D2690184907	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR308	00D2740188905	00D2740188905	2SD1858TV2(Q/R)			
	TR401	00D2690055900	00D2690055900	DTA144EKT96 +C			
	TR402	00D2690054901	00D2690054901	DTC144EKT96 +C			
	TR403	00D2720160901	00D2720160901	2SB1132T100Q +C			
	TR404	00D2690054901	00D2690054901	DTC144EKT96 +C			
	TR413	00D2720025907	00D2720025907	2SB562(C)TF			
	D101	203050014100S	203050014100S	RBV-406H			
	D102,D103	00D2760717903	00D2760717903	1SS355 TE-17 +C			
	D104	203850008503S	203850008503S	SJPX-F2			
	D105	00D2760758001	00D2760758001	SARS03			
	D107	203850008503S	203850008503S	SJPX-F2			
	D108,D109	00D2760750902	00D2760750902	RB521S-30TE61 +REF			
	D110	203850008503S	203850008503S	SJPX-F2			
	D111	204050011708S	204050011708S	FME-210B			
	D112-D117	00D2760750902	00D2760750902	RB521S-30TE61 +REF			
	D118,D119	00D2760750902	00D2760750902	RB521S-30TE61 +REF			
	D120	00D2760717903	00D2760717903	1SS355 TE-17 +C			
	D123	00D2760717903	00D2760717903	1SS355 TE-17 +C			
	D124,D125	203850012502S	203850012502S	SJPB-L4			
	D131	00D2760717903	00D2760717903	1SS355 TE-17 +C			
	D133,D134	203850008503S	203850008503S	SJPX-F2			
	D135	00D2760717903	00D2760717903	1SS355 TE-17 +C			
	D137	203850012502S	203850012502S	SJPB-L4			
	D301	00D2760717903	00D2760717903	1SS355 TE-17 +C			
	D302	00D2760794900	00D2760794900	KDS160-RTK/P			
	D303	00D2760717903	00D2760717903	1SS355 TE-17 +C			
	D304	00D2760794900	00D2760794900	KDS160-RTK/P			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New	
	ZD101	00D2760798922	00D2760798922	UDZS18B-TE17				
	ZD102	00D2760798948	00D2760798948	UDZS8.2B-TE17				
	ZD103	00D2631185907	00D2631185907	TL431ACLP				
	ZD108,ZD109	00D2760683998	00D2760683998	UDZS16B-TE17 +C				
	ZD110	00D2760798919	00D2760798919	UDZS6.8B-TE17				
	ZD111	00D2760683998	00D2760683998	UDZS16B-TE17 +C				
	ZD112	00D2760798919	00D2760798919	UDZS6.8B-TE17				
	ZD302	00D2760798919	00D2760798919	UDZS6.8B-TE17				
	ZD304	00D2760798919	00D2760798919	UDZS6.8B-TE17				
RESISTORS GROUP								
	R102	00D2432094080	00D2432094080	RW99=3DR39JF	for N, S, R			⚠2
	R103	00D2432094006	00D2432094006	RW99=3DR12JF				
	R103	00D2432094080	00D2432094080	RW99=3DR39JF	for N, S, R			⚠2
	R106	nsp	nsp	RM73B--102JT +1608				
	R107	129550006510S	129550006510S	RM73B2B473JT				
	R109	00D2442055954	00D2442055954	RS14B3A151JNBST(S)				
	R110	00D2442686909	00D2442686909	RS14B3D154JNBST(S)				
	R113	129550006510S	129550006510S	RM73B2B473JT	for N, S, R			⚠2
	R113	129550006510S	129550006510S	RM73B2B473JT				
	R114	nsp	nsp	RM73B2B100JT +3216				
	R115,R116	nsp	nsp	RM73B--102JT +1608				
	R119	nsp	nsp	RM73B--102JT +1608				
	R123	nsp	nsp	RM73B--0R0KT +1608				
	R124	nsp	nsp	RM73B--152JT +1608				
	R131	nsp	nsp	RM73B--4R7FJ(RP1608 1/8) +1608				
	R138	nsp	nsp	RM73B--2R2FJ(RP1608 1/8) +1608				
	R140	nsp	nsp	RM73B--0R0KT +1608				
	R146	nsp	nsp	RM73B--102JT +1608				
	R150	nsp	nsp	RM73B--102JT +1608				
	R152-R154	nsp	nsp	RM73B--0R0KT +1608				
	R158-R160	nsp	nsp	RM73B--0R0KT +1608				
	R161	nsp	nsp	RM73B--0R0KT +1608				
	R185	nsp	nsp	RM73B--0R0KT +1608				
	R301-R306	nsp	nsp	RM73B--0R0KT +1608				
	R308	nsp	nsp	RM73B--0R0KT +1608				
	R309,R310	nsp	nsp	RM73B--0R0KT +1608				
	R311	nsp	nsp	RM73B--102JT +1608				
	R312,R313	nsp	nsp	RM73B--0R0KT +1608				
	R315-R317	nsp	nsp	RM73B--0R0KT +1608				
	R318	nsp	nsp	RM73B--102JT +1608				
	R327	nsp	nsp	RM73B--0R0KT +1608				
	R495,R496	nsp	nsp	RM73B--102JT +1608				
	R497	nsp	nsp	RM73B--0R0KT +1608				
	R498,R499	nsp	nsp	RM73B--0R0KT +1608				
	R501	nsp	nsp	RM73B--0R0KT +1608				
	R502	nsp	nsp	RM73B--102JT +1608				
	R504	nsp	nsp	RM73B--102JT +1608				
	R505	nsp	nsp	RM73B--102JT +1608				
	R508	nsp	nsp	RM73B--102JT +1608				
	R510	nsp	nsp	RM73B--102JT +1608				
	R513-R517	nsp	nsp	RM73B--0R0KT +1608				

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New	
CAPACITORS GROUP								
	C101	00D2538026703	00D2538026703	CK45E2EAC472MC				
	C102	00D2568039029	00D2568039029	CF99--2EAC334K(LEMX)				
	C103,C104	nsp	nsp	RM73B--0R0KT +1608				
	C105	00D2544722949	00D2544722949	CE04W1H010MT(GR)				
	C106	nsp	nsp	CK73B1H102KT +1608				
	C107,C108	00D2538035710	00D2538035710	CK45E2EAC222MC(KY)	for N, S, R			2
	C107,C108	00D2538035710	00D2538035710	CK45E2EAC222MC(KY)				
	C109	00D2544708701	00D2544708701	CE04W1V471MC J20(KY)				
	C110	00D2538035710	00D2538035710	CK45E2EAC222MC(KY)	for N, S, R			2
	C110	00D2538035710	00D2538035710	CK45E2EAC222MC(KY)				
	C111,C112	00D2568039029	00D2568039029	CF99--2EAC334K(LEMX)				
	C113	00D2538035710	00D2538035710	CK45E2EAC222MC(KY)				
	C114	00D2538029713	00D2538029713	CK45F2EAC471KC(KX)				
	C115,C116	00D2538035710	00D2538035710	CK45E2EAC222MC(KY)				
	C117	134010168233S	134010168233S	CE68W2G181M Q35(KMM)	for N, S, R			2
	C117	134010168219S	134010168219S	CE68W2D471M Q30(KMM)				
	C118	00D2538026703	00D2538026703	CK45E2EAC472MC				
	C119	00D2544708701	00D2544708701	CE04W1V471MC J20(KY)				
	C120	132050023202S	132050023202S	CK45B3D471KC(DEHR)	for N, S, R			2
	C120	132050024205S	132050024205S	CK45B3D102KC(DEHR)				
	C122	00D2570520911	00D2570520911	CK73B1A224KT +1608				
	C123	00D2568039029	00D2568039029	CF99--2EAC334K(LEMX)				
	C124	134050069402S	134050069402S	CE04W2A270MT HB5(KY)				
	C126	00D2544524972	00D2544524972	CE04W1H4R7MT SMG/RE3				
	C128	132510036571S	132510036571S	CK73B2J153KT(3216)				
	C129	nsp	nsp	CK73B1H472KT +1608				
	C130	00D2538029700	00D2538029700	CK45F2EAC222MC (KX)				
	C131	nsp	nsp	CK73F1E104ZT +1608				
	C132,C133	nsp	nsp	CK73B1E223KT +1608				
	C134	nsp	nsp	CK73B1H225KT				
	C135	134050069402S	134050069402S	CE04W2A270MT HB5(KY)				
	C136	00D2544711918	00D2544711918	CE04W1A221MT F11(KY)				
	C137	00D2534548706	00D2534548706	CC45R3A102KC				
	C138	nsp	nsp	CK73B1H102KT +1608				
	C139	nsp	nsp	CK73B1C473KT +1608				
	C140	00D2544758706	00D2544758706	CE04W1V272MC LP1(KY)				
	C141	00D2544721995	00D2544721995	CE04W1V102MT(GR)				
	C142-C144	nsp	nsp	CK73B1H103KT (1608) +1608				
	C145	nsp	nsp	CK73B1H225KT				
	C146	nsp	nsp	CK73B1H103KT (1608) +1608				
	C147	nsp	nsp	CK73B1H102KT +1608				
	C148	nsp	nsp	CK73B1H225KT				
	C149	nsp	nsp	CK73B1H225KT				
	C150	nsp	nsp	CK73F1E104ZT +1608				
	C151	00D2544758706	00D2544758706	CE04W1V272MC LP1(KY)				
	C152	00D2544755903	00D2544755903	CE04W1H560MT(KY)				
	C153,C154	nsp	nsp	CK73B1H102KT +1608				
	C156	00D2544806700	00D2544806700	CE04W1C222MC K25(KY)				
	C157	nsp	nsp	CK73B1H225KT				
	C158	nsp	nsp	CK73F1E104ZT +1608				
	C159	nsp	nsp	CK73B1H102KT +1608				
	C160	00D2544708701	00D2544708701	CE04W1V471MC J20(KY)				
	C161	00D2544718940	00D2544718940	CE04W1C101MT(GR)				
	C162	nsp	nsp	CK73F1E104ZT +1608				

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C165	nsp	nsp	CK73B1H225KT			
	C166,C167	00D2544718940	00D2544718940	CE04W1C101MT(GR)			
	C168	nsp	nsp	CK73F1E104ZT +1608			
	C170,C171	nsp	nsp	CK73F1E104ZT +1608			
	C172	00D2544718940	00D2544718940	CE04W1C101MT(GR)			
	C173	nsp	nsp	CK73R1H104KT (1608)			
	C174	nsp	nsp	CK73B1H102KT +1608			
	C176	nsp	nsp	CK73B1H103KT (1608) +1608			
	C177	nsp	nsp	CK73B1A106KT +2125			
	C178,C179	132550039509S	132550039509S	CK73X7R1H225KT(GRM_3216)			
	C180	nsp	nsp	CK73R1H104KT (1608)			
	C182	nsp	nsp	CK73R1H104KT (1608)			
	C184	nsp	nsp	CC73CH1E681JT +1608			
	C185	nsp	nsp	CK73B1E104KT +1608			
	C186	132550039509S	132550039509S	CK73X7R1H225KT(GRM_3216)			
	C187	nsp	nsp	CK73R1H103KT (1608)			
	C188	nsp	nsp	CK73B1H225KT			
	C189-C191	nsp	nsp	CK73B1H103KT (1608) +1608			
	C192,C193	00D2544708701	00D2544708701	CE04W1V471MC J20(KY)			
	C194,C195	132550039509S	132550039509S	CK73X7R1H225KT(GRM_3216)			
	C197	nsp	nsp	CK73B1H102KT +1608			
	C199	nsp	nsp	CK73B1H102KT +1608			
	C200	nsp	nsp	GRM32EB31C476KE15L			
	C201	nsp	nsp	CK73F1E104ZT +1608			
	C202	nsp	nsp	CK73B1H103KT (1608) +1608			
	C203	nsp	nsp	CK73F1E104ZT +1608			
	C204	nsp	nsp	CK73B1H103KT (1608) +1608			
	C206	nsp	nsp	CK73B1E333KT +1608			
	C207	nsp	nsp	CC73CH1H102JT +1608			
	C208	nsp	nsp	CK73B1A106KT +2125			
	C209	nsp	nsp	CK73B1E104KT +1608			
	C210	nsp	nsp	CK73B1A106KT +2125			
	C211,C212	134050072101S	134050072101S	CE04W1A222M(HZ)			
	C213	nsp	nsp	CK73F1E104ZT +1608			
	C214	nsp	nsp	CK73B1H103KT (1608) +1608			
	C215-C218	nsp	nsp	CK73F1E104ZT +1608			
	C220,C221	nsp	nsp	CK73B1H103KT (1608) +1608			
	C222	nsp	nsp	CK73B1H102KT +1608			
	C223,C224	nsp	nsp	CK73F1E104ZT +1608			
	C226	nsp	nsp	CK73B1H103KT (1608) +1608			
	C227	nsp	nsp	CK73F1E104ZT +1608			
	C228	nsp	nsp	CK73B1H103KT (1608) +1608			
	C229	nsp	nsp	CK73B1E104KT +1608			
	C230	nsp	nsp	CK73B1H103KT (1608) +1608			
	C231	132510036571S	132510036571S	CK73B2J153KT(3216)			
	C232-C234	nsp	nsp	CK73B1H103KT (1608) +1608			
	C235	nsp	nsp	CK73B1H102KT +1608			
	C236	nsp	nsp	CK73B1H225KT			
	C237,C238	nsp	nsp	CK73B1A106KT +2125			
	C241	nsp	nsp	CK73B1E104KT +1608			
	C242	nsp	nsp	CK73B1H103KT (1608) +1608			
	C247-C249	nsp	nsp	CK73B1A106KT +2125			
	C251	nsp	nsp	CK73B1H103KT (1608) +1608			
	C252	nsp	nsp	CK73B1H102KT +1608			
	C253	nsp	nsp	CC73CH1H101JT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C254	nsp	nsp	CK73B1H103KT (1608) +1608			
	C255	nsp	nsp	CK73B1H102KT +1608			
	C256	nsp	nsp	CC73CH1H101JT +1608			
	C257	nsp	nsp	CK73B1H103KT (1608) +1608			
	C258	nsp	nsp	CK73B1H102KT +1608			
	C259,C260	nsp	nsp	CC73CH1H101JT +1608			
	C261	nsp	nsp	CC73CH1H102JT +1608			
	C262	nsp	nsp	CK73B1H103KT (1608) +1608			
	C263	00D2544717925	00D2544717925	CE04W1A101MT(GR)			
	C264	nsp	nsp	CK73F1E104ZT +1608			
	C265	nsp	nsp	CC73CH1H101JT +1608			
	C266,C267	nsp	nsp	CK73B1H102KT +1608			
	C268,C269	nsp	nsp	CC73CH1H101JT +1608			
	C270	nsp	nsp	CK73B1H102KT +1608			
	C271	nsp	nsp	CK73B1H222KT +1608			
	C272,C273	nsp	nsp	CK73B1H102KT +1608			
	C274	nsp	nsp	GRM32EB31C476KE15L			
	C275	nsp	nsp	CK73B1H103KT (1608) +1608			
	C276	nsp	nsp	CK73B1H102KT +1608			
	C277,C278	nsp	nsp	GRM32EB31C476KE15L			
	C279	nsp	nsp	CK73B1H102KT +1608			
	C280	nsp	nsp	CK73B1H103KT (1608) +1608			
	C281	nsp	nsp	CK73B1H102KT +1608			
	C282,C283	nsp	nsp	CK73B1H103KT (1608) +1608			
	C284	nsp	nsp	CK73B1E104KT +1608			
	C285	nsp	nsp	CK73B1H103KT (1608) +1608			
	C286	nsp	nsp	CK73B1H102KT +1608			
	C287	nsp	nsp	CK73B1H103KT (1608) +1608			
	C288	nsp	nsp	CK73B1E104KT +1608			
	C292,C293	nsp	nsp	CK73B1H225KT			
	C301	nsp	nsp	CK73F1E104ZT +1608			
	C302	nsp	nsp	CK73B1H103KT (1608) +1608			
	C303-C305	nsp	nsp	CK73F1E104ZT +1608			
	C308	00D2544718937	00D2544718937	CE04W1C470MT(GR)			
	C309	nsp	nsp	CK73B1H103KT (1608) +1608			
	C310	nsp	nsp	CK73B1H102KT +1608			
	C311	nsp	nsp	CC73CH1H101JT +1608			
	C312	nsp	nsp	CK73F1E104ZT +1608			
	C313	nsp	nsp	CK73B1H103KT (1608) +1608			
	C314-C316	nsp	nsp	CK73F1E104ZT +1608			
	C319	00D2544718937	00D2544718937	CE04W1C470MT(GR)			
	C320	nsp	nsp	CK73B1H103KT (1608) +1608			
	C321	nsp	nsp	CK73B1H102KT +1608			
	C322,C323	nsp	nsp	CC73CH1H101JT +1608			
	C324	nsp	nsp	CC73CH1H102JT +1608			
	C325	nsp	nsp	CK73B1H103KT (1608) +1608			
	C326	nsp	nsp	CC73CH1H101JT +1608			
	C327	nsp	nsp	CC73CH1H102JT +1608			
	C328	nsp	nsp	CK73B1H103KT (1608) +1608			
	C329	nsp	nsp	CC73CH1H101JT +1608			
	C330	nsp	nsp	CC73CH1H102JT +1608			
	C331	nsp	nsp	CK73B1H103KT (1608) +1608			
	C332	nsp	nsp	CC73CH1H101JT +1608			
	C333	nsp	nsp	CC73CH1H102JT +1608			
	C334	nsp	nsp	CK73B1H103KT (1608) +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New	
	C443,C444	nsp	nsp	RM73B--0R0KT +1608				
	C445,C446	nsp	nsp	CC73CH1H101JT +1608				
	C447	nsp	nsp	RM73B--0R0KT +1608				
	C449	nsp	nsp	CK73B1H103KT (1608) +1608				
	C450	nsp	nsp	CK73B1H102KT +1608				
	C451	nsp	nsp	CK73B1H103KT (1608) +1608				
	C453-C456	00D2544722907	00D2544722907	CE04W1H0R1MT(GR)				
	C457	00D2544718937	00D2544718937	CE04W1C470MT(GR)				
	C458	nsp	nsp	CK73B1H103KT (1608) +1608				
	C459	00D2544722949	00D2544722949	CE04W1H010MT(GR)				
	C460	00D2544718937	00D2544718937	CE04W1C470MT(GR)				
	C461	nsp	nsp	CK73F1E104ZT +1608				
	C462	nsp	nsp	CC73CH1H101JT +1608				
	C463,C464	nsp	nsp	CK73B1H103KT (1608) +1608				
	C466	nsp	nsp	CK73B1H103KT (1608) +1608				
	C468	nsp	nsp	CC73CH1H101JT +1608				
	C469	nsp	nsp	CC73CH1H102JT +1608				
	C470	nsp	nsp	CK73B1H103KT (1608) +1608				
	C471	nsp	nsp	CC73CH1H101JT +1608				
	C472	nsp	nsp	CC73CH1H102JT +1608				
	C473	nsp	nsp	CK73B1H103KT (1608) +1608				
	C703,C704	nsp	nsp	CK73B1H225KT				
OTHERS PARTS GROUP								
	AS102	447310015018S	447310015018S	RADIATOR(PUE36-30)				
	AS103	00D4170706007	00D4170706007	RADIATOR (PUE36)				
	AS105	00D4170476023	00D4170476023	RADIATOR				
	CW031	612050152002S	612050152002S	3P 290mm PH-SAN				
	CX021	00D2050581001	00D2050581001	2P VH CON BASE (White)				
	CX023	00D2050581085	00D2050581085	2P VH CON BASE (Blue)	for N, S, R			⚠2
	CX023	00D2051093006	00D2051093006	2P VH CONNECTOR BASA	for U			
	CX041	00D2050343045	00D2050343045	4P CONN.BASE(KRPH)				
	CX151	00D2050343045	00D2050343045	15P CONN.BASE(KRPH)				
	CY032	00D2050321038	00D2050321038	3P CONNE.BASE(RED)				
	CY033	00D2050343032	00D2050343032	3P CONN.BASE(KRPH)				
	CY044	00D2050653049	00D2050653049	4P VH CON.BASE				
	CY051	00D2050653052	00D2050653052	5P VH CONNECTOR BASE				
	CY062	00D2050653065	00D2050653065	6P VH CONNECTOR BASE				
	CY082	645010026600S	645010026600S	8P_FFC_BASE(9610SA)				
⚠	F101	00D2061099045	00D2061099045	FUSE(02153.15MXP/250V)				
	FB401-FB405	00D2350147909	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FF101	00D2020040909	00D2020040909	FUSE CLIP(TAPE)				
	FH101	00D2020040909	00D2020040909	FUSE CLIP(TAPE)				
	JK401,JK402	00D2048260004	00D2048260004	MINI JACK				
	JK403	00D2051305008	00D2051305008	9P DSUB CONNECTOR				
	L101	00D2390040011	00D2390040011	L.FILTER(HR28RE183)	for N, S, R			⚠2

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New	
	L101	00D2390038023	00D2390038023	L.FILTER(HR28RE332)				
	L102	111010010249S	111010010249S	INDUCTOR(PC13-3R9N)				
	L103	111810014502S	111810014502S	INDUCTOR 10UH(7E10H)				
	L104	00D2350185903	00D2350185903	INDUCTOR 47UH(7E10H)				
	L105	111810020507S	111810020507S	CDEP147NP-5R9MC73				
	RL101	00D2140242001	00D2140242001	RELAY(DLS9D1-O_M)				
	RL102	682010007608S	682010007608S	RELAY(DQ12D1-0(M))				
	RL103	00D2140222908	00D2140222908	RELAY(EE2-24N35) +REF				
	RL104	682010007608S	682010007608S	RELAY(DQ12D1-0(M))				
	ST101	00D2050452017	00D2050452017	STYLE PIN				
⚠	T101	102010009009S	102010009009S	SW_TRANS(E2 3912)	for N, S, R			⚠2
⚠	T102	00D2336614003	00D2336614003	POWER TRANS(MINI/E3)	for U			
⚠	T102	00D2336615002	00D2336615002	POWER TRANS(MINI/E2)	for N, S, R			⚠2
	TH101	252010002200S	252010002200S	NTPAN4R0LDKB0				
	W101,W102	nsp	nsp	GND TERMINAL FOR PCB				
	W105	nsp	nsp	GND TERMINAL FOR PCB				
	W107-W111	nsp	nsp	GND TERMINAL FOR PCB				
	W112	nsp	nsp	GND TERMINAL FOR PCB				
	W301,W302	nsp	nsp	GND TERMINAL FOR PCB				
	W405	00D2051034007	00D2051034007	M3 SCREW TERMINAL				
	W407	00D2051034007	00D2051034007	M3 SCREW TERMINAL				
		0RD4700051009	0RD4700051009	3X8 CPS(SW,W) ZNP				
		00D4610991026	00D4610991026	RUBBER SHEET				

8U-37AK550002 MAIN PWB UNIT ASSY(U model)
8U-37AK550003 MAIN PWB UNIT ASSY(N model)
8U-37AK550004 MAIN PWB UNIT ASSY(S model) ⚠2
8U-37AK550005 MAIN PWB UNIT ASSY(R model) ⚠2

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP							
	IC101	nsp	nsp	R8A34019BG			
	IC105	nsp	nsp	K4T1G084QQ-HCE6			
	IC106	nsp	nsp	LP2996MX			
	IC107	nsp	nsp	K4T51163QG-HCE6			
	IC108	nsp	nsp	K4T51163QG-HCE6			
	IC109	nsp	nsp	LP2996MX			
	IC110	nsp	nsp	BE ROM SUB ASSY (S29GL01GP11TFCR20#)			
	IC112	nsp	nsp	SN74LVC1G08DBV +C			
	IC200	nsp	nsp	RTL8201CP			
	IC201	nsp	nsp	SN74LV594APWR			
	IC202,203	nsp	nsp	TC74VHC244FT			
	IC204	nsp	nsp	SN74LV594APWR			
	IC205,206	nsp	nsp	EN5336QI-T			
	IC207	nsp	nsp	EN5322QI-T	**NOTE** : When update Firmware, please confirm a last version in SDI. Use the service board after updating it.		
	IC208	nsp	nsp	EN5366QI-T			
	IC351	nsp	nsp	EP3C40F484C8N			
	IC352	nsp	nsp	BA25BC0FP-E2			
	IC354	nsp	nsp	EPCS16SI8N			
	IC355	nsp	nsp	RN5RZ50B-TR			
	IC451	nsp	nsp	W9864G2GH-6			
	IC452	nsp	nsp	ADSP21367KSWZ2AA1UD1			
	IC453	nsp	nsp	DSP1 ROM SUB ASSY (W19B160BBT7H)			
	IC551	nsp	nsp	W9864G2GH-6			
	IC552	nsp	nsp	ADSP21367KSWZ2AA1UD2			
	IC553	nsp	nsp	DSP2 ROM SUB ASSY (W19B160BBT7H)			
	IC602	nsp	nsp	FCXO-05B(22.5792MHz)			
	IC609	nsp	nsp	FCXO-05B(24.576MHz)			
	IC651	nsp	nsp	AK4101AVQ			
	IC652	nsp	nsp	LC89057W-VF4A			
	IC656	nsp	nsp	GP1FAV55TK0F			
	IC703	nsp	nsp	BD18KA5FP-E2			
	IC704-706	nsp	nsp	BU7331EKN-E2			
	IC707	nsp	nsp	SN74LVC04APW-EL2			
	IC708	nsp	nsp	SN74LVC157APW-EL2 +C			
	IC709	nsp	nsp	SN74LVC157APW-EL2 +C			
	IC710	nsp	nsp	SN74LVC157APW-EL2 +C			
	IC714	nsp	nsp	SN74LVC74APWR			
	IC715	nsp	nsp	SM8707HV-G-E2			
	IC718	nsp	nsp	BU2365FV-E2			
	IC719	nsp	nsp	SM5158AM-G-E2			
	IC851	nsp	nsp	BD4730G-TR			
	IC852	nsp	nsp	S-24CS08AFJ-TB +C			
	IC853	nsp	nsp	SYSTEM ROM SUB ASSY (R5F364VDNFB)			
	IC854	nsp	nsp	SN74LVC157APW-EL2 +C			
	IC855	nsp	nsp	SN74LVC157APW-EL2 +C			
	TR301,302	nsp	nsp	KRC102S-RTK/P (10K-10K)			
	TR451	nsp	nsp	KRC102S-RTK/P (10K-10K)			
	TR452,453	nsp	nsp	KRA102S-RTK/P (10K-10K)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	TR454	nsp	nsp	KRC102S-RTK/P (10K-10K)			
	TR551	nsp	nsp	KRC102S-RTK/P (10K-10K)			
	TR552	nsp	nsp	KRA102S-RTK/P (10K-10K)			
	TR651	nsp	nsp	2SC2412K_T146R			
	TR851	nsp	nsp	DTC144EKT96 +C			
	TR852	nsp	nsp	2SB1132T100Q +C			
	D851	nsp	nsp	1SS355 TE-17 +C			
	D906	nsp	nsp	1SS355 TE-17 +C			
	D900-903	nsp	nsp	RB521S-30TE61 +REF			
RESISTORS GROUP							
	R101-103	nsp	nsp	RM73B--472JT+1005			
	R104-107	nsp	nsp	RM73B--820FT(1005)			
	R108	nsp	nsp	RM73B--102JT			
	R109-114	nsp	nsp	RM73B--473JT+1005			
	R115	nsp	nsp	RM73B--0R0KT+1005			
	R150-157	nsp	nsp	RM73B--220JT+1005			
	R158,159	nsp	nsp	RM73B--101JT+1005			
	R160R-163	nsp	nsp	RM73B--820FT(1005)			
	R203-206	nsp	nsp	RM73B--820FT(1005)			
	R250	nsp	nsp	RM73B--472JT+1005			
	R252	nsp	nsp	RM73B--472JT+1005			
	R254-260	nsp	nsp	RM73B--220JT+1005			
	R262,264	nsp	nsp	RM73B--472JT+1005			
	R265-267	nsp	nsp	RM73B--472JT+1005			
	R269	nsp	nsp	RM73B--220JT+1005			
	R270-272	nsp	nsp	RM73B--0R0KT+1005			
	R300,301	nsp	nsp	RM73B--473JT+1005			
	R302	nsp	nsp	RM73B--473JT+1005			
	R304	nsp	nsp	RM73B--473JT+1005			
	R306	nsp	nsp	RM73B--473JT+1005			
	R308	nsp	nsp	RM73B--102JT			
	R311	nsp	nsp	RM73B--0R0KT+1005			
	R315-321	nsp	nsp	RM73B--220JT+1005			
	R329	nsp	nsp	RM73B--220JT+1005			
	R336R	nsp	nsp	RM73B--0R0KT+1005			
	R338	nsp	nsp	RM73B--220JT+1005			
	R339	nsp	nsp	RM73B--472JT+1005			
	R341	nsp	nsp	RM73B--472JT+1005			
	R342,343	nsp	nsp	RM73B--220JT+1005			
	R344	nsp	nsp	RM73B--472JT+1005			
	R345	nsp	nsp	RM73B--220JT+1005			
	R346	nsp	nsp	RM73B--472JT+1005			
	R347	nsp	nsp	RM73B--220JT+1005			
	R348	nsp	nsp	RM73B--472JT+1005			
	R349	nsp	nsp	RM73B--220JT+1005			
	R350	nsp	nsp	RM73B--472JT+1005			
	R351	nsp	nsp	RM73B--220JT+1005			
	R352	nsp	nsp	RM73B--472JT+1005			
	R353	nsp	nsp	RM73B--220JT+1005			
	R354,355	nsp	nsp	RM73B--472JT+1005			
	R358	nsp	nsp	RM73B--220JT+1005			
	R364	nsp	nsp	RM73B--0R0KT+1005			
	R365	nsp	nsp	RM73B--0R0KT+1005			
	R366,367	nsp	nsp	RM73B--0R0KT+1005			
	R368-370	nsp	nsp	RM73B--0R0KT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	R374-379	nsp	nsp	RM73B--0R0KT+1005			
	R380,381	nsp	nsp	RM73B--0R0KT+1005			
	R383	nsp	nsp	RM73B--0R0KT+1005			
	R385	nsp	nsp	RM73B--102JT			
	R390	nsp	nsp	RM73B--0R0KT+1005			
	R391	nsp	nsp	RM73B--473JT+1005			
	R394,395	nsp	nsp	RM73B--473JT+1005			
	R397	nsp	nsp	RM73B--473JT+1005			
	R399	nsp	nsp	RM73B--473JT+1005			
	R400	nsp	nsp	RM73B--473JT+1005			
	R402-405	nsp	nsp	RM73B--473JT+1005			
	R404	nsp	nsp	RM73B--0R0KT+1005			
	R406-408	nsp	nsp	RM73B--0R0KT+1005			
	R409-411	nsp	nsp	RM73B--0R0KT+1005			
	R415	nsp	nsp	RM73B--0R0KT+1005			
	R416,417	nsp	nsp	RM73B--0R0KT+1005			
	R420-422	nsp	nsp	RM73B--102JT			
	R424,425	nsp	nsp	RM73B--102JT			
	R427-431	nsp	nsp	RM73B--102JT			
	R432	nsp	nsp	RM73B--472JT+1005			
	R449,450	nsp	nsp	RM73B--0R0KT+1005			
	R451,452	nsp	nsp	RM73B--0R0KT+1005			
	R453-462	nsp	nsp	RM73B--0R0KT+1005			
	R461,462	nsp	nsp	RM73B--0R0KT+1005			
	R464	nsp	nsp	RM73B--0R0KT+1005			
	R467	nsp	nsp	RM73B--0R0KT+1005			
	R500-503	nsp	nsp	RM73B--0R0KT+1005			
	R504-507	nsp	nsp	RM73B--0R0KT+1005			
	R508-539	nsp	nsp	RM73B--220JT+1005			
	R540-543	nsp	nsp	RM73B--0R0KT+1005			
	R544-569	nsp	nsp	RM73B--0R0KT+1005			
	R571-573	nsp	nsp	RM73B--0R0KT+1005			
	R575-577	nsp	nsp	RM73B--0R0KT+1005			
	R578-583	nsp	nsp	RM73B--0R0KT+1005			
	R584-587	nsp	nsp	RM73B--220JT+1005			
	R590,591	nsp	nsp	RM73B--0R0KT+1005			
	R594	nsp	nsp	RM73B--0R0KT+1005			
	R595	nsp	nsp	RM73B--101JT+1005			
	R596	nsp	nsp	RM73B--473JT+1005			
	R597	nsp	nsp	RM73B--0R0KT+1005			
	R598	nsp	nsp	RM73B--472JT+1005			
	R599-601	nsp	nsp	RM73B--473JT+1005			
	R603,604	nsp	nsp	RM73B--0R0KT+1005			
	R605-617	nsp	nsp	RM73B--0R0KT+1005			
	R620	nsp	nsp	RM73B--0R0KT+1005			
	R636	nsp	nsp	RM73B--473JT+1005			
	R637-639	nsp	nsp	RM73B--0R0KT+1005			
	R640-645	nsp	nsp	RM73B--0R0KT+1005			
	R647	nsp	nsp	RM73B--0R0KT+1005			
	R649	nsp	nsp	RM73B--0R0KT+1005			
	R650,651	nsp	nsp	RM73B--0R0KT+1005			
	R653	nsp	nsp	RM73B--0R0KT+1005			
	R659-663	nsp	nsp	RM73B--0R0KT+1005			
	R664,665	nsp	nsp	RM73B--0R0KT+1005			
	R666-669	nsp	nsp	RM73B--220JT+1005			
	R670,671	nsp	nsp	RM73B--0R0KT+1005			
	R672-685	nsp	nsp	RM73B--0R0KT+1005			
	R687	nsp	nsp	RM73B--473JT+1005			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New	
	R742,743	nsp	nsp	RM73B--0R0KT+1005				
	R744, 745	nsp	nsp	RM73B--0R0KT+1005				
	R802	nsp	nsp	RM73B--0R0KT+1005				
	R803-805	nsp	nsp	RM73B--102JT				
	R807	nsp	nsp	RM73B--0R0KT+1005	for U, S			2
	R808	nsp	nsp	RM73B--0R0KT+1005	for U			
	R815-817	nsp	nsp	RM73B--102JT				
	R819	nsp	nsp	RM73B--0R0KT+1005				
	R821	nsp	nsp	RM73B--0R0KT+1005	for N			
	R824	nsp	nsp	RM73B--181JT	for S, R			2
	R826	nsp	nsp	RM73B--0R0KT+1005	for N			
	R829	nsp	nsp	RM73B--271JT +1005	for R			2
	R830	nsp	nsp	RM73B--271JT +1005	for S, R			2
	R832	nsp	nsp	RM73B--0R0KT+1005	for R			2
	R833	nsp	nsp	RM73B--0R0KT+1005	for S			2
	R836	nsp	nsp	RM73B--391JT +1005	for R			2
	R840	nsp	nsp	RM73B--0R0KT+1005				
	R843	nsp	nsp	RM73B--681JT	for R			2
	R846	nsp	nsp	RM73B--0R0KT+1005	for R			2
	R850	nsp	nsp	RM73B--0R0KT+1005				
	R851	nsp	nsp	RM73B--0R0KT+1005				
	R863	nsp	nsp	RM73B--0R0KT+1005				
	R881	nsp	nsp	RM73B--0R0KT+1005				
	R883-892	nsp	nsp	RM73B--0R0KT+1005				
	R900,901	nsp	nsp	RM73B--0R0KT +1608				
	R902	nsp	nsp	RM73B--0R0KT+1005				
	R903-905	nsp	nsp	RM73B--0R0KT +1608				
	R906-910	nsp	nsp	RM73B--0R0KT +1608				
	R916,917	nsp	nsp	RM73B--122FT +1608				
	R919	nsp	nsp	RM73B--102FT +1608				
	R922	nsp	nsp	RM73B--0R0KT+1005				
	R923925	nsp	nsp	RM73B--0R0KT +1608				
	R926-928	nsp	nsp	RM73B--0R0KT +1608				
	R930	nsp	nsp	RM73B--0R0KT+1005				
	R934	nsp	nsp	RM73B--0R0KT+1005				
	R938	nsp	nsp	RM73B--0R0KT+1005				
	R940	nsp	nsp	RM73B--0R0KT+1005				
	R-944	nsp	nsp	RM73B--222FT_1608				
	R949	nsp	nsp	RM73B--0R0KT +1608				
	R952	nsp	nsp	RM73B--102FT +1608				
	R956	nsp	nsp	RM73B--0R0KT+1005				
	R957	nsp	nsp	RM73B--0R0KT+1005				
	R959	nsp	nsp	RM73B--102FT +1608				
	R960	nsp	nsp	RM73B--0R0KT+1005				
	R969-972	nsp	nsp	RM73B--0R0KT +1608				
	R973,974	nsp	nsp	RM73B--0R0KT +1608				
	R985	nsp	nsp	RM73B--0R0KT+1005				
	RA150-154	nsp	nsp	MNR04=220(1005X4)				
	RA155-RA160	nsp	nsp	MNR04=750(1005X4)				
	RA200-202	nsp	nsp	MNR04=220(1005X4)				
	RA203-205	nsp	nsp	MNR04=220(1005X4)				
	RA206,207	nsp	nsp	MNR04=750(1005X4)				
	RA208-211	nsp	nsp	MNR04=750(1005X4)				
	RA250-253	nsp	nsp	MNR14=103JE0 +C				
	RA300-303	nsp	nsp	MNR04=223(1005X4)				
	RE301-303	nsp	nsp	RM73B--0R0KT+1005				
	RE304	nsp	nsp	RM73B--102JT				
	RE305	nsp	nsp	RM73B--0R0KT+1005				

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	RE307-311	nsp	nsp	RM73B--101JT+1005			
	RE312,313	nsp	nsp	RM73B--101JT+1005			
	RE317,318	nsp	nsp	RM73B--101JT+1005			
	RE321	nsp	nsp	RM73B--0R0KT +1608			
	RE322-324	nsp	nsp	RM73B--0R0KT+1005			
	RE325	nsp	nsp	RM73B--0R0KT+1005			
	RE326	nsp	nsp	RM73B--0R0KT +1608			
	RE326	nsp	nsp	RM73B--0R0KT +1608			
	RE327-337	nsp	nsp	RM73B--0R0KT+1005			
	RE338	nsp	nsp	RM73B--0R0KT+1005			
	RE339-342	nsp	nsp	RM73B--0R0KT+1005			
	RE343-348	nsp	nsp	RM73B--0R0KT+1005			
	RE349	nsp	nsp	RM73B--0R0KT +1608			
	RE350	nsp	nsp	RM73B--0R0KT+1005			
	RE351	nsp	nsp	MMZ1005D241CT			
	RE353	nsp	nsp	RM73B--0R0KT+1005			
	RE355	nsp	nsp	RM73B--101JT+1005			
	RE359	nsp	nsp	MMZ1005D241CT			
	RE369,370	nsp	nsp	RM73B--0R0KT+1005			
	RE372	nsp	nsp	RM73B--0R0KT+1005			
	RE374	nsp	nsp	RM73B--101JT+1005			
	RE375	nsp	nsp	RM73B--0R0KT+1005			
	RE377	nsp	nsp	RM73B--0R0KT+1005			
	RE382	nsp	nsp	RM73B--0R0KT+1005			
	RE385	nsp	nsp	RM73B--102JT			
	RE387	nsp	nsp	RM73B--102JT			
	RE388	nsp	nsp	RM73B--0R0KT+1005			
	RE389-392	nsp	nsp	RM73B--0R0KT+1005			
	RE393	nsp	nsp	RM73B--0R0KT+1005			
	RE394,395	nsp	nsp	RM73B--101JT+1005			
	RE396-399	nsp	nsp	RM73B--101JT+1005			
	RE402,403	nsp	nsp	RM73B--0R0KT+1005			
	RE404,405	nsp	nsp	RM73B--0R0KT+1005			
	RE450,451	nsp	nsp	RM73B--220JT+1005			
	RE471	nsp	nsp	RM73B--101JT+1005			
	RE502,505	nsp	nsp	RM73B--0R0KT+1005			
	RE550,551	nsp	nsp	RM73B--220JT+1005			
	RE651	nsp	nsp	RM73B--101JT+1005			
	RE658-660	nsp	nsp	RM73B--102JT			
	RE661	nsp	nsp	RM73B--0R0KT+1005			
	RE801	nsp	nsp	RM73B--472JT+1005			
	RE803,804	nsp	nsp	RM73B--472JT+1005			
	RE805	nsp	nsp	RM73B--0R0KT+1005			
	RE806-824	nsp	nsp	RM73B--0R0KT+1005			
	RE825	nsp	nsp	RM73B--472JT+1005			
	RR301,302	nsp	nsp	RM73B--101JT+1005			
	RR303-306	nsp	nsp	RM73B--101JT+1005			
	RR307	nsp	nsp	RM73B--0R0KT +1608			
	RR315	nsp	nsp	RM73B--0R0KT+1005			
	RR316	nsp	nsp	RM73B--101JT+1005			
	RR317,318	nsp	nsp	RM73B--0R0KT+1005			
	RR339,340	nsp	nsp	RM73B--101JT+1005			
	RR344	nsp	nsp	RM73B--473JT+1005			
	RR347	nsp	nsp	RM73B--473JT+1005			
	RR359,360	nsp	nsp	RM73B--0R0KT+1005			
	RR362	nsp	nsp	RM73B--0R0KT+1005			
	RR364	nsp	nsp	RM73B--102JT			
	RR366	nsp	nsp	RM73B--101JT+1005			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	RR367	nsp	nsp	MMZ1005D241CT			
	RR369,370	nsp	nsp	RM73B--0R0KT+1005			
	RR371-374	nsp	nsp	RM73B--102JT			
	RR375-377	nsp	nsp	RM73B--0R0KT+1005			
	RR395	nsp	nsp	RM73B--0R0KT+1005			
	RR396	nsp	nsp	RM73B--0R0KT+1005			
	RR398,399	nsp	nsp	RM73B--0R0KT+1005			
	RR402	nsp	nsp	RM73B--0R0KT +1608			
	RR403,404	nsp	nsp	RM73B--0R0KT +1608			
	RR406	nsp	nsp	RM73B--0R0KT +1608			
	RR446	nsp	nsp	RM73B--0R0KT+1005			
	RR448	nsp	nsp	RM73B--0R0KT+1005			
	RR450	nsp	nsp	RM73B--0R0KT+1005			
	RR454	nsp	nsp	RM73B--0R0KT+1005			
	RR465	nsp	nsp	RM73B--0R0KT+1005			
	RR540	nsp	nsp	RM73B--0R0KT+1005			
	RR542	nsp	nsp	RM73B--0R0KT+1005			
	RR544	nsp	nsp	RM73B--0R0KT+1005			
	RR548R	nsp	nsp	RM73B--0R0KT+1005			
	RR559	nsp	nsp	RM73B--0R0KT+1005			
	RR601	nsp	nsp	RM73B--102JT			
	RR603	nsp	nsp	RM73B--0R0KT+1005			
	RR610	nsp	nsp	RM73B--0R0KT+1005			
	RR619	nsp	nsp	RM73B--102JT			
	RR623	nsp	nsp	RM73B--0R0KT+1005			
	RR628	nsp	nsp	RM73B--0R0KT+1005			
	RR803	nsp	nsp	RM73B--0R0KT+1005			
	RR804	nsp	nsp	RM73B--472JT+1005			
	RR811	nsp	nsp	RM73B--274FT(1005)			
	RR813	nsp	nsp	RM73B--0R0KT+1005			
	RR815	nsp	nsp	RM73B--0R0KT+1005			
	RR817	nsp	nsp	RM73B--0R0KT+1005			
	RR822	nsp	nsp	RM73B--0R0KT+1005			
	RR825	nsp	nsp	RM73B--0R0KT+1005			
	RR827	nsp	nsp	RM73B--0R0KT+1005			
	RR829	nsp	nsp	RM73B--0R0KT+1005			
	RR846-848	nsp	nsp	RM73B--0R0KT+1005			
	RR850-856	nsp	nsp	RM73B--0R0KT+1005			
	RR869	nsp	nsp	RM73B--472JT+1005			
	RR870	nsp	nsp	RM73B--0R0KT+1005			
	RR871	nsp	nsp	RM73B--0R0KT+1005			
	RR878-890	nsp	nsp	RM73B--0R0KT+1005			
	RR896	nsp	nsp	RM73B--0R0KT+1005			
	RR897	nsp	nsp	RM73B--473JT+1005			
	RR915,916	nsp	nsp	RM73B--0R0KT+1005			
	RR919	nsp	nsp	RM73B--0R0KT+1005			
	RR926	nsp	nsp	RM73B--0R0KT+1005			
	RR933	nsp	nsp	RM73B--0R0KT+1005			
	RR936,937	nsp	nsp	RM73B--0R0KT+1005			
	RR942	nsp	nsp	RM73B--0R0KT+1005			
	RR943-945	nsp	nsp	RM73B--0R0KT+1005			
	RR946	nsp	nsp	RM73B--473JT+1005			
	RR954-956	nsp	nsp	RM73B--0R0KT+1005			
	RR964	nsp	nsp	RM73B--0R0KT+1005			
	RR969	nsp	nsp	RM73B--0R0KT+1005			
	RR971	nsp	nsp	RM73B--0R0KT+1005			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
CAPACITORS GROUP							
	C101-128	nsp	nsp	CK73F1C104ZT +1005			
	C123	nsp	nsp	CK73F1H103ZT +1005			
	C125-127	nsp	nsp	CK73F1H103ZT +1005			
	C129,130	nsp	nsp	CK73F1C104ZT +1005			
	C131,132	nsp	nsp	CK73F1H103ZT +1005			
	C133	nsp	nsp	CK73F1H103ZT +1005			
	C134-141	nsp	nsp	CK73B1A104KT +1005			
	C150-165	nsp	nsp	CK73B1A104KT +1005			
	C166	nsp	nsp	CS77B0J470MT(NOJ)			
	C167-170	nsp	nsp	CK73B1A104KT +1005			
	C171	nsp	nsp	CS77B0J470MT(NOJ)			
	C172-174	nsp	nsp	CK73B1A104KT +1005			
	C175-180	nsp	nsp	CK73F1C104ZT +1005			
	C181-186	nsp	nsp	CK73F1C104ZT +1005			
	C187	nsp	nsp	CK73B1A104KT +1005			
	C188-194	nsp	nsp	CK73B1A104KT +1005			
	C200	nsp	nsp	CK73B1A104KT +1005			
	C201-211	nsp	nsp	CK73B1A104KT +1005			
	C212	nsp	nsp	CS77B0J470MT(NOJ)			
	C213	nsp	nsp	CK73B1A104KT +1005			
	C214	nsp	nsp	CS77B0J470MT(NOJ)			
	C215,216	nsp	nsp	CK73F1C104ZT +1005			
	C217-226	nsp	nsp	CK73F1C104ZT +1005			
	C227-230	nsp	nsp	CK73B1A104KT +1005			
	C231-236	nsp	nsp	CK73B1A104KT +1005			
	C250	nsp	nsp	CK73F1C104ZT +1005			
	C252	nsp	nsp	CK73B0J226MT			
	C253,254	nsp	nsp	CK73F1C104ZT +1005			
	C255	nsp	nsp	CK73B0J226MT			
	C350	nsp	nsp	CK73B0J475KT +1608			
	C351,352	nsp	nsp	CK73B1H102KT +1005			
	C638	nsp	nsp	CK73B1H102KT +1005			
	C658	nsp	nsp	CK73B1H102KT +1005			
	C709	nsp	nsp	CK73B1H102KT +1005			
	C734	nsp	nsp	CK73B1H102KT +1005			
	C736	nsp	nsp	CK73B1H102KT +1005			
	C736	nsp	nsp	CK73B1H102KT +1005			
	C738	nsp	nsp	CK73B1H102KT +1005			
	C353,354	nsp	nsp	CK73B1A104KT +1005			
	C355	nsp	nsp	CK73B1A104KT +1005			
	C357	nsp	nsp	CK73B1A104KT +1005			
	C360	nsp	nsp	CK73B1A104KT +1005			
	C363,364	nsp	nsp	CK73B1A104KT +1005			
	C711-713	nsp	nsp	CK73B1A104KT +1005			
	C358,359	nsp	nsp	CC73CH1H120JT +1005			
	C361	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C803	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C362	nsp	nsp	CK73B1E103KT(1005)			
	C365,366	nsp	nsp	CK73B1E104KT +1608			
	C367	nsp	nsp	CK73B1E103KT(1005)			
	C500-502	nsp	nsp	CK73F1C104ZT +1005			
	C503-505	nsp	nsp	CK73F1C104ZT +1005			
	C639	nsp	nsp	CC73CH1H101JT +1005			
	C659	nsp	nsp	CC73CH1H101JT +1005			
	C660	nsp	nsp	CS77B1A100MT(NOJ)			
	C705	nsp	nsp	CS77B1A100MT(NOJ)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C708	nsp	nsp	CK73B1E103KT(1005)			
	C710	nsp	nsp	CK73F1C104ZT +1005			
	C714	nsp	nsp	CS77B0J220MT(NOJ)			
	C716	nsp	nsp	CS77B0J470MT(NOJ)			
	C717-722	nsp	nsp	CK73B1A104KT +1005			
	C725,726	nsp	nsp	CK73B1A104KT +1005			
	C727-730	nsp	nsp	CK73B1A104KT +1005			
	C733	nsp	nsp	CK73B1E103KT(1005)			
	C735	nsp	nsp	CK73B1E103KT(1005)			
	C737	nsp	nsp	CK73B1E103KT(1005)			
	C745	nsp	nsp	CK73B1E103KT(1005)			
	C746	nsp	nsp	CK73B1H102KT +1005			
	C747	nsp	nsp	CK73B1A104KT +1005			
	C748	nsp	nsp	CK73B1H102KT +1005			
	C749	nsp	nsp	CK73F1C104ZT +1005			
	C75	nsp	nsp	CK73F1C104ZT +1005			
	C750	nsp	nsp	CK73F1H103ZT +1005			
	C751	nsp	nsp	CK73B1A106KT +2125			
	C753	nsp	nsp	CK73F1H103ZT +1005			
	C757	nsp	nsp	CC73CH1H100DT +1005			
	C758	nsp	nsp	CK73B1H222KT +1005			
	C759	nsp	nsp	CC73CH1H100DT +1005			
	C760	nsp	nsp	CS77B0J220MT(NOJ)			
	C761-763	nsp	nsp	CS77B0J220MT(NOJ)			
	C764-766	nsp	nsp	CK73B1A104KT +1005			
	C767,768	nsp	nsp	CK73B1A104KT +1005			
	C769	nsp	nsp	CS77B0J220MT(NOJ)			
	C802	nsp	nsp	CK73F1C104ZT +1005			
	C805	nsp	nsp	CK73F1C104ZT +1005			
	C806	nsp	nsp	CK73D0J226MT(3216)			
	C807	nsp	nsp	CK73F1C104ZT +1005			
	C808	nsp	nsp	CK73D0J226MT(3216)			
	C810	nsp	nsp	CK73F1C104ZT +1005			
	C811,812	nsp	nsp	CC73CH1H220JT +1005			
	C813,814	nsp	nsp	CC73CH1H8R0DT +1005			
	C815,816	nsp	nsp	CK73F1C104ZT +1005			
	C818	nsp	nsp	CK73B1A104KT +1005			
	C819	nsp	nsp	CK73D0J226MT(3216)			
	C820	nsp	nsp	CK73F1C104ZT +1005			
	C821	nsp	nsp	CK73F1C104ZT +1005			
	C900C,901	nsp	nsp	CK73B0J475KT +1608			
	C902	nsp	nsp	CK73F1E104ZT +1608			
	C903	nsp	nsp	CK73F1H103ZT +1608			
	C904	nsp	nsp	CK73B1H102KT +1608			
	C905,906	nsp	nsp	CK73D0J226MT(3216)			
	C907	nsp	nsp	CK73F1E104ZT +1608			
	C908	nsp	nsp	CK73F1H103ZT +1608			
	C909	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C916	nsp	nsp	CK73F1H103ZT +1608			
	C921	nsp	nsp	CK73B0J475KT +1608			
	C922	nsp	nsp	CK73F1E104ZT +1608			
	C923	nsp	nsp	CK73D0J226MT(3216)			
	C924	nsp	nsp	CK73F1H103ZT +1608			
	C925	nsp	nsp	CK73B1H102KT +1608			
	C926C,927	nsp	nsp	CK73B0J475KT +1608			
	C928	nsp	nsp	CK73F1E104ZT +1608			
	C929	nsp	nsp	CK73F1H103ZT +1608			
	C930	nsp	nsp	CK73B1H102KT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C931,932	nsp	nsp	CK73D0J226MT(3216)			
	C933,934	nsp	nsp	CK73B1H103KT (1608) +1608			
	C935	nsp	nsp	CK73B1H102KT +1608			
	C936,937	nsp	nsp	CK73B1E104KT +1608			
	C938	nsp	nsp	CK73D0J226MT(3216)			
	C939	nsp	nsp	CK73B1H103KT (1608) +1608			
	C940,941	nsp	nsp	CK73D0J226MT(3216)			
	C942	nsp	nsp	CK73B1E104KT +1608			
	C943	nsp	nsp	CK73D0J226MT(3216)			
	C944	nsp	nsp	CK73B0J475KT +1608			
	C945	nsp	nsp	CK73F1H103ZT +1608			
	C946	nsp	nsp	CK73B0J475KT +1608			
	C947	nsp	nsp	CK73B1H153KT +1608			
	C948	nsp	nsp	CK73F1A105ZT +1608			
	C949	nsp	nsp	CK73B1E104KT +1608			
	C950	nsp	nsp	CK73D0J226MT(3216)			
	C951	nsp	nsp	CK73B0J475KT +1608			
	C952	nsp	nsp	CK73F1E104ZT +1608			
	C953	nsp	nsp	CK73D0J226MT(3216)			
	C954	nsp	nsp	CK73F1H103ZT +1608			
	C955	nsp	nsp	CK73B1H102KT +1608			
	C956	nsp	nsp	CK73B1H102KT +1608			
	C957	nsp	nsp	CK73B1H103KT (1608) +1608			
	C958	nsp	nsp	CK73B1E104KT +1608			
	C959	nsp	nsp	CK73D0J226MT(3216)			
	C961	nsp	nsp	CK73B1E104KT +1608			
	C962	nsp	nsp	CK73B0J226MT			
	C965	nsp	nsp	CK73B0J226MT			
	C967	nsp	nsp	CK73B0J226MT			
	C968	nsp	nsp	CK73B1E104KT +1608			
	C971,972	nsp	nsp	CK73B0J226MT			
	C973	nsp	nsp	CK73B1E104KT +1608			
	CC113-116	nsp	nsp	CK73F1C104ZT +1005			
	CC117-174	nsp	nsp	CK73F1C104ZT +1005			
	CC301	nsp	nsp	CS77B0J470MT(NOJ)			
	CC302	nsp	nsp	CK73F1H103ZT +1005			
	CC303	nsp	nsp	CK73B1H102KT +1005			
	CC304	nsp	nsp	CK73F1C104ZT +1005			
	CC305	nsp	nsp	CS77B0J470MT(NOJ)			
	CC306	nsp	nsp	CK73F1A105ZT +1608			
	CC307	nsp	nsp	CK73B1E103KT(1005)			
	CC308-310	nsp	nsp	CC73CH1H470JT			
	CC311	nsp	nsp	CS77B0J101MT(NOJ)			
	CC313	nsp	nsp	CK73F1C104ZT +1005			
	CC314	nsp	nsp	CS77B0J470MT(NOJ)			
	CC315	nsp	nsp	CK73F1C104ZT +1005			
	CC316	nsp	nsp	CS77B0J101MT(NOJ)			
	CC317	nsp	nsp	CK73F1C104ZT +1005			
	CC318	nsp	nsp	CS77B1A100MT(NOJ)			
	CC319,320	nsp	nsp	CS77B1A100MT(NOJ)			
	CC321,322	nsp	nsp	CK73B1H102KT +1005			
	CC323,324	nsp	nsp	CK73B1E103KT(1005)			
	CC325,326	nsp	nsp	CC73CH1H101JT +1005			
	CC327,328	nsp	nsp	CK73B1H102KT +1005			
	CC329,330	nsp	nsp	CK73B1E103KT(1005)			
	CC331,332	nsp	nsp	CC73CH1H101JT +1005			
	CC334	nsp	nsp	CC73CH1H101JT +1005			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	CC336,337	nsp	nsp	CK73B1H102KT +1005			
	CC338	nsp	nsp	CC73CH1H101JT +1005			
	CC341	nsp	nsp	CC73CH1H101JT +1005			
	CC342	nsp	nsp	CK73B1H102KT +1005			
	CC345-352	nsp	nsp	RM73B--0R0KT+1005			
	CC353,354	nsp	nsp	CK73F1C104ZT +1005			
	CC355,356	nsp	nsp	CK73F1H103ZT +1005			
	CC357,358	nsp	nsp	CK73F1C104ZT +1005			
	CC359,360	nsp	nsp	CK73F1H103ZT +1005			
	CC401-407	nsp	nsp	CC73CH1H101JT +1005			
	CC408	nsp	nsp	CC73CH1H101JT +1005			
	CC409	nsp	nsp	CK73B1H102KT +1005			
	CC410-413	nsp	nsp	CK73B1H102KT +1005			
	CC414-416	nsp	nsp	CK73B1H102KT +1005			
	CC417-421	nsp	nsp	CK73B1A104KT +1005			
	CC422-424	nsp	nsp	CK73B1A104KT +1005			
	CC425	nsp	nsp	CS77B1A100MT(NOJ)			
	CC427,428	nsp	nsp	CK73B1A104KT +1005			
	CC430,431	nsp	nsp	CK73B1A104KT +1005			
	CC432	nsp	nsp	CK73B0J475KT +1608			
	CC434	nsp	nsp	CK73B1A104KT +1005			
	CC435	nsp	nsp	CK73B0J475KT +1608			
	CC438,439	nsp	nsp	CC73CH1H7R0DT +1005			
	CC501-507	nsp	nsp	CC73CH1H101JT +1005			
	CC508	nsp	nsp	CC73CH1H101JT +1005			
	CC509-513	nsp	nsp	CK73B1H102KT +1005			
	CC514-516	nsp	nsp	CK73B1H102KT +1005			
	CC517-524	nsp	nsp	CK73B1A104KT +1005			
	CC525	nsp	nsp	CS77B1A100MT(NOJ)			
	CC527,528	nsp	nsp	CK73B1A104KT +1005			
	CC530,531	nsp	nsp	CK73B1A104KT +1005			
	CC532	nsp	nsp	CK73B0J475KT +1608			
	CC534	nsp	nsp	CK73B1A104KT +1005			
	CC535	nsp	nsp	CK73B0J475KT +1608			
	CC538,539	nsp	nsp	CC73CH1H7R0DT +1005			
	CC601	nsp	nsp	CK73D0J226MT(3216)			
	CC602,603	nsp	nsp	CK73F1C104ZT +1005			
	CC604	nsp	nsp	CK73B1E223KT +1608			
	CC605	nsp	nsp	CK73B1A104KT +1005			
	CC606	nsp	nsp	CK73F1H103ZT +1005			
	CC607	nsp	nsp	CK73B1H102KT +1005			
	CC608,609	nsp	nsp	CK73F1C104ZT +1005			
	CC610,617	nsp	nsp	CK73B1H102KT +1005			
	CC611,612	nsp	nsp	CC73CH1H100DT +1005			
	CC613-615	nsp	nsp	CK73F1C104ZT +1005			
	CC616	nsp	nsp	CK73F1H103ZT +1005			
	CC618	nsp	nsp	CK73F1C104ZT +1005			
	CC626	nsp	nsp	CE67C1C100MT(RV2)			
	CC628	nsp	nsp	CE67C1H010MT(RV2)			
	CC629	nsp	nsp	CK73F1H103ZT +1005			
OTHERS PARTS GROUP							
	CW01	nsp	nsp	2P 80mm ZM			
	CX044	nsp	nsp	B4PS-VH			
	CX082	nsp	nsp	8P FFC BASE(IMSA-9617S-08Y909)			
	CX403	nsp	nsp	40P-FFC-BASE(FH12)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	CX953	nsp	nsp	10P ZH-ZR CON.BASE-T			
	CY151	nsp	nsp	CONN. S15B-PH-SM4-TB (LF)(SN)JST			
	CY252,253	nsp	nsp	25P FFC BASE (9610SD +REF			
	CY402	nsp	nsp	40P-FFC-BASE(FH12)			
	CY404	nsp	nsp	40P FFC BASE(FY-BMGB-TB)			
	CY452	nsp	nsp	45P-FFC-BASE(9637SA)			
	CY801	nsp	nsp	80P-SOCKET(404)			
	FB300,301	nsp	nsp	CHIP EMIFIL(11A121) +1608			
	FB351-353	nsp	nsp	FBMJ1608HS280NT +1608			
	FB851,852	nsp	nsp	FBMJ1608HS280NT +1608			
	FB901	nsp	nsp	FBMJ1608HS280NT +1608			
	FB907	nsp	nsp	FBMJ1608HS280NT +1608			
	FB910	nsp	nsp	FBMJ1608HS280NT +1608			
	FB701-704	nsp	nsp	BLM18AG121SN1D			
	FB706,707	nsp	nsp	BLM18AG121SN1D			
	FB911-914	nsp	nsp	FBMJ1608HS280NT +1608			
	FB916	nsp	nsp	E.FIL(BLM21PG221SN1)+2125			
	JK301	00D2051333009	00D2051333009	8P MODULAR			
	JK651	643010023605S	643010023605S	1P PIN JACK(AU,shield)			
	W651,652	nsp	nsp	M3 SCREW TERMINAL			
	X300	nsp	nsp	FCX-03(25MHZ)			
	X451	nsp	nsp	FCX-03(20.815MHz)			
	X551	nsp	nsp	FCX-03(20.815MHz)			
	X651	nsp	nsp	FCX-03(24.576MHz)			
	X705	nsp	nsp	FCX-03(27.000MHz) 15ppm			
	X851	nsp	nsp	TFX-02(32.768kHz)			
	X852	nsp	nsp	FCX-03(20.000MHz) 20ppm			
	ZD300-303	nsp	nsp	ESD PROTECTOR(6802)			

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	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP							
	IC102	nsp	nsp	PCA9539PW,188			*
	IC104-106	nsp	nsp	EN5322QI-T			
	IC108	nsp	nsp	EPM570F256C5N			
	IC202	nsp	nsp	TC7W241FU(TE12L)			
	IC203	nsp	nsp	sxT2LF-400(Realta)			
	IC204-209	nsp	nsp	K4D261638K-LC40			
	IC210	nsp	nsp	LP2995M			
	IC211,212	nsp	nsp	K4D261638K-LC40			
	IC213	nsp	nsp	IP ROM SUB ASSY (S29GL064N90TFI040#)			*
	IC214	nsp	nsp	EN5336QI-T			*
	IC215	nsp	nsp	EN5366QI-T			*
	IC501	nsp	nsp	EPM570F256C5N			
	IC502	nsp	nsp	SII9134CTU			
	IC503	nsp	nsp	BD7820FP-E2			
	IC504	nsp	nsp	SII9134CTU			
	IC601	nsp	nsp	ABT2010			*
	IC701	nsp	nsp	EN5322QI-T			*
	IC702	nsp	nsp	LP2996MX			
	IC703,704	nsp	nsp	K4T51163QG-HCE7			*
	IC802	nsp	nsp	ADV7344BSTZ			*
	IC803-805	nsp	nsp	BD7820FP-E2			
	IC806	nsp	nsp	ABT1012			*
	IC808	nsp	nsp	ADV7340BSTZ			
	IC901	nsp	nsp	NJM2566AV			
	TR103-106	nsp	nsp	KRC104S-RTK/P (47K-47K)			
	TR202,203	nsp	nsp	KRC104S-RTK/P (47K-47K)			
	TR503	nsp	nsp	KTC3875S-GR-RTK/P			
	TR701	nsp	nsp	KRC104S-RTK/P (47K-47K)			
	TR802-804	nsp	nsp	2SA1022-B +C			
	TR806,807	nsp	nsp	2SA1022-B +C			
	TR821,822	nsp	nsp	KRC104S-RTK/P (47K-47K)			
	D101-103	nsp	nsp	RB521S-30TE61 +REF			
	D201,202	nsp	nsp	RB521S-30TE61 +REF			
	D501-503	nsp	nsp	KDS160-RTK/P			
	D504-508	nsp	nsp	ESD PROTECTOR(6802)			
	D509-516	nsp	nsp	AVRL161A1R1NTB			
	D517-521	nsp	nsp	ESD PROTECTOR(6802)			
	D522-529	nsp	nsp	AVRL161A1R1NTB			
	D701	nsp	nsp	RB521S-30TE61 +REF			
	D801-803	nsp	nsp	KDS160-RTK/P			
	ZD501,502	nsp	nsp	UDZS5.1B-TE17 +C			
RESISTORS GROUP							
	R356,357	nsp	nsp	RM73B--103FT +1608			
	R359,360	nsp	nsp	RM73B--103FT +1608			
	R725,726	nsp	nsp	RM73B--102FT +1608			
	R732,733	nsp	nsp	RM73B--102FT +1608			

NOTE :
When update Firmware, please confirm a last version in SDI. Use the service board after updating it.

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	RA201-240	nsp	nsp	MNR04=330(1005X4)			
	RA601-606	nsp	nsp	MNR04=000(1005X4)			
	RA701-708	nsp	nsp	MNR04=000(1005X4)			
	RA709-714	nsp	nsp	MNR04=151(1005X4)			
	RE111	nsp	nsp	RM73B--103DT(1608) +1608			
	RE112	nsp	nsp	RM73B--334DT(1608)			
	RE115	nsp	nsp	RM73B--514DT(1608)			
	RE202,203	nsp	nsp	RM73B--103FT +1608			
	RE207,208	nsp	nsp	RM73B--103FT +1608			
	RE212,213	nsp	nsp	RM73B--103FT +1608			
	RE217,218	nsp	nsp	RM73B--103FT +1608			
	RE225,226	nsp	nsp	RM73B--103FT +1608			
	RE229,230	nsp	nsp	RM73B--103FT +1608			
	RE232,233	nsp	nsp	RM73B--103FT +1608			
	RE239,240	nsp	nsp	RM73B--103FT +1608			
	RE254	nsp	nsp	RM73B--301DT(1608)			
	RE255	nsp	nsp	RM73B--272DT(1608)			
	RE256	nsp	nsp	RM73B--102DT(1608)			
	RE257	nsp	nsp	RM73B--822DT(1608)			
	RE261,262	nsp	nsp	RM73B--102DT(1608)			
	RE267	nsp	nsp	RM73B--301DT(1608)			
	RE268	nsp	nsp	RM73B--272DT(1608)			
	RE269	nsp	nsp	RM73B--102DT(1608)			
	RE270	nsp	nsp	RM73B--822DT(1608)			
	RE274,275	nsp	nsp	RM73B--102DT(1608)			
	RE539	nsp	nsp	RM73B--303DT(1608)			
	RE540	nsp	nsp	RM73B--154DT(1608)			
	RE541	nsp	nsp	RM73B--203DT(1608)			
	RE921	nsp	nsp	RM73B--750DT(1608)			
	RE923	nsp	nsp	RM73B--750DT(1608)			
	RE925	nsp	nsp	RM73B--750DT(1608)			
	RE927	nsp	nsp	RM73B--750DT(1608)			
	RE929	nsp	nsp	RM73B--750DT(1608)			
	RE931	nsp	nsp	RM73B--750DT(1608)			
	RR285	nsp	nsp	RM73B--750FT			
	RR295	nsp	nsp	RM73B--331FT			
	RR296	nsp	nsp	RM73B--162FT			
	RR336	nsp	nsp	RM73B--750FT			
	RR337	nsp	nsp	RM73B--162FT			
	RR338	nsp	nsp	RM73B--331FT			
	RR359,360	nsp	nsp	RM73B--750FT			
	RR361	nsp	nsp	RM73B--162FT			
	RR362	nsp	nsp	RM73B--331FT			
	RR383,384	nsp	nsp	RM73B--750FT			
	RR611	nsp	nsp	RM73B--222DT(1608)			
	RR613	nsp	nsp	RM73B--510DT(1608)			
	RR647	nsp	nsp	RM73B--331DT(1608)			
	RR648	nsp	nsp	RM73B--272DT(1608)			
	RR649	nsp	nsp	RM73B--102FT +1608			
	RR652-654	nsp	nsp	RM73B--102FT +1608			
	RR814	nsp	nsp	RM73B--511DT(1608)			
	RR850	nsp	nsp	RM73B--750DT(1608)			
	RR852	nsp	nsp	RM73B--750DT(1608)			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	RR857	nsp	nsp	RM73B--750DT(1608)			
	RR859	nsp	nsp	RM73B--750DT(1608)			
	RR863,864	nsp	nsp	RM73B--750DT(1608)			
	RR865	nsp	nsp	RM73B--303DT(1608)			
	RR866	nsp	nsp	RM73B--154DT(1608)			
	RR867	nsp	nsp	RM73B--203DT(1608)			
	RR873	nsp	nsp	RM73B--303DT(1608)			
	RR874	nsp	nsp	RM73B--203DT(1608)			
	RR875	nsp	nsp	RM73B--823DT(1608)			
	RR876	nsp	nsp	RM73B--273DT(1608)			
	RR877	nsp	nsp	RM73B--153DT(1608)			
	RR878	nsp	nsp	RM73B--303DT(1608)			
	RS101-140	nsp	nsp	RM73B--0R0KT+1005			
	RS142	nsp	nsp	RM73B--0R0KT+1005			
	RS144	nsp	nsp	RM73B--0R0KT+1005			
	RS146	nsp	nsp	RM73B--0R0KT+1005			
	RS148,149	nsp	nsp	RM73B--0R0KT+1005			
	RS150,151	nsp	nsp	RM73B--101JT+1005			
	RS152	nsp	nsp	RM73B--0R0KT +1608			
	RS155-199	nsp	nsp	RM73B--220JT+1005			
	RS501-509	nsp	nsp	RM73B--0R0KT+1005			
	RS510,511	nsp	nsp	RM73B--472JT+1005			
	RS513	nsp	nsp	RM73B--132JT +1608			
	RS514	nsp	nsp	RM73B--152JT +1608			
	RS516	nsp	nsp	RM73B--0R0KT+1005			
	RS518,519	nsp	nsp	RM73B--0R0KT+1005			
	RS520	nsp	nsp	RM73B--101JT+1005			
	RS521	nsp	nsp	RM73B--102JT			
	RS522	nsp	nsp	RM73B--473JT+1005			
	RS523	nsp	nsp	RM73B--0R0KT+1005			
	RS524,525	nsp	nsp	RM73B--182JT			
	RS530-532	nsp	nsp	RM73B--0R0KT+1005			
	RS802,803	nsp	nsp	RM73B--0R0KT+1005			
	RS805	nsp	nsp	RM73B--472JT+1005			
	RS807,808	nsp	nsp	RM73B--0R0KT+1005			
	RS810,811	nsp	nsp	RM73B--0R0KT+1005			
	RS814	nsp	nsp	RM73B--511JT +1608			
	RS816	nsp	nsp	RM73B--0R0KT +1608			
	RS819,820	nsp	nsp	RM73B--221JT +1005			
	RS822	nsp	nsp	RM73B--472DT(1608)			
	RS823	nsp	nsp	RM73B--333DT(1608)			
	RS824	nsp	nsp	RM73B--221JT +1005			
	RS825	nsp	nsp	RM73B--221JT +1608			
	RS826,827	nsp	nsp	RM73B--0R0KT+1005			
	RS828,829	nsp	nsp	RM73B--331JT			
	RS830-839	nsp	nsp	RM73B--0R0KT +1608			
	RS840,841	nsp	nsp	RM73B--331JT			
	RS842	nsp	nsp	RM73B--0R0KT +1608			
	RS843	nsp	nsp	RM73B--301DT(1608)			
	RS845	nsp	nsp	RM73B--330JT +1608			
	RS846	nsp	nsp	RM73B--102JT +1608			
	RS847	nsp	nsp	RM73B--0R0KT +1608			
	RS848	nsp	nsp	RM73B--301DT(1608)			
	RS850	nsp	nsp	RM73B--330JT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	RS851	nsp	nsp	RM73B--102JT +1608			
	RS853	nsp	nsp	RM73B--0R0KT +1608			
	RS855	nsp	nsp	RM73B--0R0KT +1608			
CAPACITORS GROUP							
	C102	nsp	nsp	CK73B1A104KT +1005			
	C106	nsp	nsp	CK73B1H102KT +1005			
	C107	nsp	nsp	CK73B1A104KT +1005			
	C108	nsp	nsp	CS77B1A100MT(NOJ)			
	C109	nsp	nsp	CK73B1A104KT +1005			
	C110	nsp	nsp	CK73B1E103KT(1005)			
	C111	nsp	nsp	CK73B0J475KT(P) +1608			
	C112-117	nsp	nsp	CK73B1A104KT +1005			
	C118	nsp	nsp	CK73B1E103KT(1005)			
	C119	nsp	nsp	CK73B1A104KT +1005			
	C120	nsp	nsp	CK73B1E103KT(1005)			
	C121	nsp	nsp	CK73B1A104KT +1005			
	C122,123	nsp	nsp	CK73D0J226MT(3216)			
	C124	nsp	nsp	CK73B1A104KT +1005			
	C125	nsp	nsp	CK73B1E103KT(1005)			
	C126	nsp	nsp	CK73B1A104KT +1005			
	C127	nsp	nsp	CK73B1E103KT(1005)			
	C128	nsp	nsp	CK73B1A104KT +1005			
	C129,130	nsp	nsp	CK73D0J226MT(3216)			
	C131	nsp	nsp	CK73B1A104KT +1005			
	C132	nsp	nsp	CK73B1E103KT(1005)			
	C133	nsp	nsp	CK73B1A104KT +1005			
	C134	nsp	nsp	CK73B1E103KT(1005)			
	C135	nsp	nsp	CK73B1A104KT +1005			
	C136,137	nsp	nsp	CK73D0J226MT(3216)			
	C141,142	nsp	nsp	CK73B0J475KT(P) +1608			
	C143	nsp	nsp	CK73F1A105ZT +1608			
	C144,145	nsp	nsp	CK73B0J475KT(P) +1608			
	C146	nsp	nsp	CK73F1A105ZT +1608			
	C147-149	nsp	nsp	CK73B0J475KT(P) +1608			
	C160,161	nsp	nsp	CK73B0J475KT(P) +1608			
	C162	nsp	nsp	CK73B1H102KT +1005			
	C183	nsp	nsp	CS77B1A100MT(NOJ)			
	C184	nsp	nsp	CK73B1H102KT +1005			
	C185-187	nsp	nsp	CK73B1A104KT +1005			
	C188	nsp	nsp	CE67C1A471MT(PXA)			
	C190	nsp	nsp	CK73B1H102KT +1005			
	C191	nsp	nsp	CK73B1A104KT +1005			
	C192	nsp	nsp	CS77B1A100MT(NOJ)			
	C205	nsp	nsp	CK73B1E103KT(1005)			
	C206	nsp	nsp	CS77B1A100MT(NOJ)			
	C207	nsp	nsp	CK73B1A104KT +1005			
	C208	nsp	nsp	CK73B1E103KT(1005)			
	C209,210	nsp	nsp	CC73CH1H470JT			
	C217	nsp	nsp	CK73B1E103KT(1005)			
	C218	nsp	nsp	CC73CH1H101JT +1005			
	C222-224	nsp	nsp	CK73B1A106KT +2125			
	C225-227	nsp	nsp	CK73B1E103KT(1005)			
	C228	nsp	nsp	CK73B1A106KT +2125			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C229,230	nsp	nsp	CK73B1E103KT(1005)			
	C231	nsp	nsp	CK73B1A106KT +2125			
	C232-284	nsp	nsp	CK73B1E103KT(1005)			
	C285,286	nsp	nsp	CK73D0J226MT(3216)			
	C287-297	nsp	nsp	CK73B1E103KT(1005)			
	C298	nsp	nsp	CK73D0J226MT(3216)			
	C315-350	nsp	nsp	CK73B1E103KT(1005)			
	C351,352	nsp	nsp	CK73D0J226MT(3216)			
	C353,354	nsp	nsp	CK73B1A106KT +2125			
	C355-367	nsp	nsp	CK73B1E103KT(1005)			
	C368	nsp	nsp	CK73D0J226MT(3216)			
	C369-384	nsp	nsp	CK73B1E103KT(1005)			
	C501,502	nsp	nsp	CK73B1A104KT +1005			
	C504,505	nsp	nsp	CK73B0J475KT(P) +1608			
	C506-513	nsp	nsp	CK73B1H102KT +1005			
	C514-521	nsp	nsp	CK73B1A104KT +1005			
	C524-528	nsp	nsp	CK73B1H102KT +1005			
	C529-531	nsp	nsp	CK73B1A104KT +1005			
	C532-534	nsp	nsp	CK73B1H102KT +1005			
	C535	nsp	nsp	CK73B1A104KT +1005			
	C536	nsp	nsp	CK73B1H102KT +1005			
	C537,538	nsp	nsp	CK73B1A104KT +1005			
	C539	nsp	nsp	CK73B1H102KT +1005			
	C540-542	nsp	nsp	CK73B1A104KT +1005			
	C543	nsp	nsp	CK73B1H102KT +1005			
	C544	nsp	nsp	CK73B1A104KT +1005			
	C549	nsp	nsp	CK73B1A104KT +1005			
	C550	nsp	nsp	CK73B1H102KT +1005			
	C551	nsp	nsp	CK73B1A104KT +1005			
	C552,553	nsp	nsp	CK73B0J475KT(P) +1608			
	C554	nsp	nsp	CK73B1H102KT +1005			
	C555	nsp	nsp	CK73B1A104KT +1005			
	C556,557	nsp	nsp	CK73B0J475KT(P) +1608			
	C558,559	nsp	nsp	CK73B1H102KT +1005			
	C560,561	nsp	nsp	CK73B1A104KT +1005			
	C562-565	nsp	nsp	CK73B0J475KT(P) +1608			
	C566	nsp	nsp	CK73B1A106KT +2125			
	C567	nsp	nsp	CK73B1H102KT +1005			
	C568	nsp	nsp	CK73B1A104KT +1005			
	C574	nsp	nsp	CK73D0J226MT(3216)			
	C575	nsp	nsp	CK73B1H102KT +1005			
	C576,577	nsp	nsp	CK73B1A104KT +1005			
	C578	nsp	nsp	CK73B1H102KT +1005			
	C579	nsp	nsp	CK73B1A104KT +1005			
	C580	nsp	nsp	CK73B1H102KT +1005			
	C606	nsp	nsp	CK73B1A104KT +1005			
	C607	nsp	nsp	CK73B1H102KT +1005			
	C608	nsp	nsp	CK73B1A104KT +1005			
	C609	nsp	nsp	CK73B1H102KT +1005			
	C610	nsp	nsp	CK73B1A104KT +1005			
	C611	nsp	nsp	CK73B1H102KT +1005			
	C612,613	nsp	nsp	CK73B1A104KT +1005			
	C614	nsp	nsp	CK73B1A106KT +2125			
	C615	nsp	nsp	CK73B1A104KT +1005			
	C616	nsp	nsp	CK73B1H102KT +1005			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C617	nsp	nsp	CK73B1A104KT +1005			
	C618	nsp	nsp	CK73B1H102KT +1005			
	C619	nsp	nsp	CK73B1A106KT +2125			
	C620	nsp	nsp	CK73D0J226MT(3216)			
	C621-642	nsp	nsp	CK73B1A104KT +1005			
	C643	nsp	nsp	CK73B1E103KT(1005)			
	C644	nsp	nsp	CK73B1H102KT +1005			
	C645	nsp	nsp	CK73B1A106KT +2125			
	C646	nsp	nsp	CK73D0J226MT(3216)			
	C647-649	nsp	nsp	CK73B1A104KT +1005			
	C650	nsp	nsp	CK73B1A106KT +2125			
	C651	nsp	nsp	CK73D0J226MT(3216)			
	C652-680	nsp	nsp	CK73B1A104KT +1005			
	C701,702	nsp	nsp	CK73B1A104KT +1005			
	C703,704	nsp	nsp	CK73B1E103KT(1005)			
	C705	nsp	nsp	CK73B1A104KT +1005			
	C706,707	nsp	nsp	CK73D0J226MT(3216)			
	C708	nsp	nsp	CK73B1A104KT +1005			
	C709,710	nsp	nsp	CK73B0J475KT(P) +1608			
	C711	nsp	nsp	CK73F1A105ZT +1608			
	C712,713	nsp	nsp	CK73B1A106KT +2125			
	C714-722	nsp	nsp	CK73B1A104KT +1005			
	C723,724	nsp	nsp	CK73D0J476MT(3225)			
	C725,726	nsp	nsp	CK73B1A104KT +1005			
	C727	nsp	nsp	CK73B1E103KT(1005)			
	C728	nsp	nsp	CK73D0J226MT(3216)			
	C729-743	nsp	nsp	CK73B1A104KT +1005			
	C744	nsp	nsp	CC73CH1H470JT			
	C745	nsp	nsp	CK73B1A104KT +1005			
	C746	nsp	nsp	CK73B1E103KT(1005)			
	C747	nsp	nsp	CK73B1A104KT +1005			
	C748	nsp	nsp	CK73B1A106KT +2125			
	C749-766	nsp	nsp	CK73B1A104KT +1005			
	C767	nsp	nsp	CC73CH1H470JT			
	C768	nsp	nsp	CK73B1A104KT +1005			
	C769	nsp	nsp	CK73B1A106KT +2125			
	C770-785	nsp	nsp	CK73B1A104KT +1005			
	C786	nsp	nsp	CK73D0J226MT(3216)			
	C828	nsp	nsp	CK73B1A106KT +2125			
	C829	nsp	nsp	CK73B1E103KT(1005)			
	C830,831	nsp	nsp	CK73B1H102KT +1005			
	C832	nsp	nsp	CK73B1A104KT +1005			
	C833	nsp	nsp	CK73B1A106KT +2125			
	C834	nsp	nsp	CK73B1E103KT(1005)			
	C837	nsp	nsp	CK73B1A106KT +2125			
	C839	nsp	nsp	CK73B1H123KT +1608			
	C840	nsp	nsp	CK73B1H102KT +1005			
	C841,842	nsp	nsp	CK73B1A104KT +1005			
	C843	nsp	nsp	CK73B1H102KT +1005			
	C844	nsp	nsp	CK73B1A104KT +1005			
	C845-847	nsp	nsp	CK73B1E103KT(1005)			
	C848	nsp	nsp	CK73B1A104KT +1005			
	C849	nsp	nsp	CK73B1E103KT(1005)			
	C850	nsp	nsp	CK73B1H123KT +1608			
	C851	nsp	nsp	CK73B1A154KT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C852	nsp	nsp	CK73B1A104KT +1005			
	C853	nsp	nsp	CK73B1H102KT +1005			
	C854,855	nsp	nsp	CK73B1A106KT +2125			
	C856,857	nsp	nsp	CK73B1H102KT +1005			
	C858	nsp	nsp	CK73B1A104KT +1005			
	C859	nsp	nsp	CK73B1E103KT(1005)			
	C860	nsp	nsp	CK73B1A106KT +2125			
	C861	nsp	nsp	CK73B1A104KT +1005			
	C862	nsp	nsp	CK73B1H102KT +1005			
	C863	nsp	nsp	CK73B1A154KT +1608			
	C864	nsp	nsp	CK73B1A106KT +2125			
	C865	nsp	nsp	CK73B1H102KT +1005			
	C866,867	nsp	nsp	CK73B1A104KT +1005			
	C870,871	nsp	nsp	CK73B1A104KT +1005			
	C873	nsp	nsp	CK73B1A104KT +1005			
	C874	nsp	nsp	CK73D0J226MT(3216)			
	C875	nsp	nsp	CK73B1H102KT +1005			
	C876	nsp	nsp	CK73B1A104KT +1005			
	C877	nsp	nsp	CK73B0J475KT(P) +1608			
	C878	nsp	nsp	CK73B1H102KT +1005			
	C879,880	nsp	nsp	CS77B1A100MT(NOJ)			
	C881	nsp	nsp	CK73B1A104KT +1005			
	C882	nsp	nsp	CK73B1A106KT +2125			
	C883	nsp	nsp	CK73B1H102KT +1005			
	C884,885	nsp	nsp	CK73B1A104KT +1005			
	C886	nsp	nsp	CK73B1A106KT +2125			
	C887	nsp	nsp	CK73B1H102KT +1005			
	C888-891	nsp	nsp	CK73B1A104KT +1005			
	C892	nsp	nsp	CK73B1H102KT +1005			
	C893	nsp	nsp	CK73B1A104KT +1005			
	C894	nsp	nsp	CK73B1A106KT +2125			
	C895	nsp	nsp	CK73B1E103KT(1005)			
	C896-900	nsp	nsp	CK73B1A104KT +1005			
	C901	nsp	nsp	CK73B1A106KT +2125			
	C902-907	nsp	nsp	CK73B1A104KT +1005			
	C908	nsp	nsp	CK73B1A106KT +2125			
	C909	nsp	nsp	CK73B1H102KT +1005			
	C910,911	nsp	nsp	CK73B1A104KT +1005			
	C912	nsp	nsp	CK73B1A106KT +2125			
	C913	nsp	nsp	CK73B1E103KT(1005)			
	C914,915	nsp	nsp	CK73B1H102KT +1005			
	C916	nsp	nsp	CK73B1A104KT +1005			
	C917	nsp	nsp	CK73B1A106KT +2125			
	C918	nsp	nsp	CK73B1E103KT(1005)			
	C921	nsp	nsp	CC73CH1H100DT +1005			
	C922-924	nsp	nsp	CK73B1E103KT(1005)			
	C925	nsp	nsp	CK73B1A104KT +1005			
	C926	nsp	nsp	CK73B1E103KT(1005)			
	C928	nsp	nsp	CK73B1H123KT +1608			
	C929	nsp	nsp	CK73B1A104KT +1005			
	C930	nsp	nsp	CK73B1H102KT +1005			
	C931	nsp	nsp	CK73B1A106KT +2125			
	C932	nsp	nsp	CK73B1A154KT +1608			
	C933	nsp	nsp	CK73B1H123KT +1608			
	C934	nsp	nsp	CK73B1A106KT +2125			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C935	nsp	nsp	CK73B1A104KT +1005			
	C936	nsp	nsp	CK73B1H102KT +1005			
	C937	nsp	nsp	CK73B1A154KT +1608			
	CC127	nsp	nsp	CK73B1A104KT +1005			
	CC129,130	nsp	nsp	CK73B0J475KT(P) +1608			
	CC131-138	nsp	nsp	CK73B1A104KT +1005			
	CC139-146	nsp	nsp	CK73B1H102KT +1005			
	CC201-209	nsp	nsp	CK73B1E103KT(1005)			
	CC210	nsp	nsp	CK73D0J226MT(3216)			
	CC211,212	nsp	nsp	CK73B1A106KT +2125			
	CC213-225	nsp	nsp	CK73B1E103KT(1005)			
	CC226	nsp	nsp	CK73D0J226MT(3216)			
	CC227-249	nsp	nsp	CK73B1E103KT(1005)			
	CC250	nsp	nsp	CK73B1A106KT +2125			
	CC251	nsp	nsp	CK73B1E103KT(1005)			
	CC252	nsp	nsp	CK73B1A106KT +2125			
	CC253-263	nsp	nsp	CK73B1E103KT(1005)			
	CC264	nsp	nsp	CK73D0J476MT(3225)			
	CC265	nsp	nsp	CC73CH1H470JT			
	CC266	nsp	nsp	CK73D0J476MT(3225)			
	CC267	nsp	nsp	CC73CH1H470JT			
	CC268,269	nsp	nsp	CK73D0J476MT(3225)			
	CC270-281	nsp	nsp	CK73B1E103KT(1005)			
	CC282,283	nsp	nsp	CK73B1A106KT +2125			
	CC284-291	nsp	nsp	CK73B1E103KT(1005)			
	CC292-295	nsp	nsp	CK73B1A104KT +1005			
	CC296	nsp	nsp	CK73B1E103KT(1005)			
	CC297,298	nsp	nsp	CK73B1A104KT +1005			
	CC299	nsp	nsp	CK73B1E103KT(1005)			
	CC300-303	nsp	nsp	CK73B1A104KT +1005			
	CC304,305	nsp	nsp	CK73D0J226MT(3216)			
	CC306	nsp	nsp	CK73B1H153KT +1608			
	CC307	nsp	nsp	CK73D0J226MT(3216)			
	CC308	nsp	nsp	CK73B1A104KT +1005			
	CC309	nsp	nsp	CK73B1H153KT +1608			
	CC310	nsp	nsp	CK73D0J226MT(3216)			
	CC311	nsp	nsp	CK73B1A106KT +2125			
	CC312,313	nsp	nsp	CK73B1A104KT +1005			
	CC314	nsp	nsp	CK73D0J226MT(3216)			
	CC315	nsp	nsp	CK73B1A104KT +1005			
	CC316	nsp	nsp	CK73B1E103KT(1005)			
	CC317,318	nsp	nsp	CK73B1A104KT +1005			
	CC319	nsp	nsp	CK73B1E103KT(1005)			
	CC320	nsp	nsp	CK73B1A104KT +1005			
	CC321-323	nsp	nsp	CK73D0J226MT(3216)			
	CC401	nsp	nsp	CK73B1H102KT +1005			
	CC402	nsp	nsp	CK73B1A104KT +1005			
	CC403	nsp	nsp	CK73B1H102KT +1005			
	CC404	nsp	nsp	CK73B1A104KT +1005			
	CC407,408	nsp	nsp	CK73B1A104KT +1005			
	CC409	nsp	nsp	CK73B1H102KT +1005			
	CC410	nsp	nsp	CK73B1E103KT(1005)			
	CC411	nsp	nsp	CK73B1A104KT +1005			
	CC412	nsp	nsp	CK73B1A106KT +2125			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	CC501,502	nsp	nsp	CK73B0J475KT(P) +1608			
	CC503-506	nsp	nsp	CK73B1H102KT +1005			
	CC507-509	nsp	nsp	CK73B1A104KT +1005			
	CC510-512	nsp	nsp	CK73B1H102KT +1005			
	CC513	nsp	nsp	CK73B1A104KT +1005			
	CC514,515	nsp	nsp	CK73B1H102KT +1005			
	CC516,517	nsp	nsp	CK73B1A104KT +1005			
	CC518	nsp	nsp	CK73B1H102KT +1005			
	CC519-521	nsp	nsp	CK73B1A104KT +1005			
	CC522	nsp	nsp	CK73B1H102KT +1005			
	CC523	nsp	nsp	CK73B1A104KT +1005			
	CC528	nsp	nsp	CK73B1A104KT +1005			
	CC529	nsp	nsp	CK73B1H102KT +1005			
	CC530	nsp	nsp	CK73B1A104KT +1005			
	CC531,532	nsp	nsp	CK73B0J475KT(P) +1608			
	CC533	nsp	nsp	CK73B1H102KT +1005			
	CC534	nsp	nsp	CK73B1A104KT +1005			
	CC535,536	nsp	nsp	CK73B0J475KT(P) +1608			
	CC537,538	nsp	nsp	CK73B1H102KT +1005			
	CC539,540	nsp	nsp	CK73B1A104KT +1005			
	CC541-544	nsp	nsp	CK73B0J475KT(P) +1608			
	CC549-552	nsp	nsp	CK73B1A104KT +1005			
	CC802	nsp	nsp	CK73B1A104KT +1005			
	CC804	nsp	nsp	CK73B1A104KT +1005			
	CC805	nsp	nsp	CK73B0J475KT(P) +1608			
	CC806	nsp	nsp	CK73B1A104KT +1005			
	CC807,808	nsp	nsp	CS77B1A100MT(NOJ)			
	CC809	nsp	nsp	CK73B1A104KT +1005			
	CC956,957	nsp	nsp	CK73B1A104KT +1005			
	CC958	nsp	nsp	CK73B1E103KT(1005)			
	CC959	nsp	nsp	CK73B1A104KT +1005			
	CC960	nsp	nsp	CS77B1A100MT(NOJ)			
	CC961-964	nsp	nsp	CK73B1A106KT +2125			
	CC965	nsp	nsp	CK73B1A104KT +1005			
	CC972-974	nsp	nsp	CK73B1A104KT +1005			
	CC975	nsp	nsp	CE67C0J471MT (RV) +REF			
	CC980	nsp	nsp	CE67C0J471MT (RV) +REF			
	CC982	nsp	nsp	CE67C0J471MT (RV) +REF			
	CC984	nsp	nsp	CE67C0J471MT (RV) +REF			
	CC986	nsp	nsp	CE67C0J471MT (RV) +REF			
OTHERS PARTS GROUP							
	CX031	nsp	nsp	3P PH CON BASE SIDE			
	CX051	nsp	nsp	5P VH CONNECTOR BASE			
	CX079	nsp	nsp	7P FFC BASE(9610SC)			
	CX404	nsp	nsp	40P-FFC-BASE(6222_101)			
	CX801	nsp	nsp	80P-PLUG(404)			
	FB101	nsp	nsp	FBMJ1608HS280NT +1608			
	FB104,105	nsp	nsp	FBMJ1608HS280NT +1608			
	FB107	nsp	nsp	FBMJ1608HS280NT +1608			
	FB202-207	nsp	nsp	MPZ1608S221A			*
	FB208	nsp	nsp	FBMJ1608HS280NT +1608			
	FB501	nsp	nsp	FBMJ1608HS280NT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	FB502-517	nsp	nsp	MPZ1608S221A			*
	FB601-608	nsp	nsp	MPZ1608S221A			*
	FB701	nsp	nsp	MPZ1608S221A			*
	FB702	nsp	nsp	FBMJ1608HS280NT +1608			
	FB703	nsp	nsp	MPZ1608S221A			*
	FB802-814	nsp	nsp	FBMJ1608HS280NT +1608			
	FB888-890	nsp	nsp	FBMJ1608HS280NT +1608			
	JK601	644010062702S	644010062702S	HDMI CONNECTOR			*
	JK605	644010062702S	644010062702S	HDMI CONNECTOR			*
	JK901-904	643010023605S	643010023605S	1P PIN JACK(AU,shield)			*
	JK905	00D2051395005	00D2051395005	1P S-TERMINAL-LF			
	L803	nsp	nsp	INDUCTOR(FLC32C220K)+3216			
	L806	nsp	nsp	INDUCTOR(FLC32C220K)+3216			
	L901	nsp	nsp	INDUCTOR(FLC32C220K)+3216			
	RL501,502	nsp	nsp	RELAY(UB2-5NUN-L1)			
	W102-104	nsp	nsp	M3 SCREW TERMINAL			
	X201	nsp	nsp	FCXO-05(66.666MHz)			
	X601	nsp	nsp	FCXO-05 (30.00MHz)			*
	X801	nsp	nsp	FCXO-05 (27.00MHz)			*
		nsp	nsp	1P CONTACT ASSY 140&165mm			
		nsp	nsp	HEAT SHEET (GP1-2.0)			
		nsp	nsp	HEAT SINK(PUE-56)			
		nsp	nsp	HEAT SINK BRACKET			
		nsp	nsp	3X6 CFS-B			
		nsp	nsp	CUPPER TAPE(W=15)			

8U-310010A FE/SACD PWB UNIT ASSY

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP							
	IC100	nsp	nsp	R8J32801AFPV			*
	IC104	nsp	nsp	BA2904F-E2			*
	IC106	nsp	nsp	AD8062ARMZ-R7			*
	IC107	nsp	nsp	BA6846FV-E2			*
	IC108	nsp	nsp	BA5961FV-E2			*
	IC151	nsp	nsp	BD7956FS-E2			
	IC301	nsp	nsp	BH18MA3WHFV-TR			*
	IC302	nsp	nsp	MM1661ZHBE			*
	IC303	nsp	nsp	MM1687CFBE			*
	IC304	nsp	nsp	MM1825YHBE			*
	IC305	nsp	nsp	BU19502KV-SE2			*
	IC306	nsp	nsp	MM1665AHBE			*
	IC502	nsp	nsp	M12L16161A-7TG			
	IC503	nsp	nsp	CXD2753R +C			
	IC504	nsp	nsp	SN74LVC04APW-EL2			*
	IC602	nsp	nsp	BA25BC0FP-E2			
	IC603	nsp	nsp	BA00HC5FP			
	IC605	nsp	nsp	W19B160BBT7H			
	IC606	nsp	nsp	XC3S500E-4FTG256C			*
	IC901	nsp	nsp	SN74LVC2G04DBVR			*
	IC902	nsp	nsp	SN74CBTLV16210GR			*
	IC903	nsp	nsp	SN74CBTLV16212GR			*
	IC904	nsp	nsp	SN74CBTLV16210GR			*
	IC905	nsp	nsp	SN74LV08APW-EL2 +REF			
	IC906	nsp	nsp	SN74LV32APW-EL2 +C			
	IC961	nsp	nsp	EN5311QI-T			*
	TR501	nsp	nsp	DTC114EKT96 +C			
	TR502	nsp	nsp	DTA114EKT96 +C			
	TR503	nsp	nsp	DTC114EKT96 +C			
	TR504	nsp	nsp	DTA114EKT96 +C			
	D901,902	nsp	nsp	1SS355 TE-17 +C			
	D903-905	nsp	nsp	1SR154-400TE25 +REF			
	D906-910	nsp	nsp	1SS355 TE-17 +C			
RESISTORS GROUP							
	R137	nsp	nsp	RS14B3A010JNBST(S)			
	R159	nsp	nsp	RM73B--123FT +1608			
	R253,254	nsp	nsp	RM73B--103DT_1005			*
	R255	nsp	nsp	RM73B--332DT(1608)			
	R273,274	nsp	nsp	RM73B--103DT_1005			*
	R320	nsp	nsp	RM73B--123FT +1608			
	R322	nsp	nsp	RM73B--224DT(1608)			
	RR130	nsp	nsp	RS14B3A010JNBST(S)			
	RR139-142	nsp	nsp	RM73B--103DT_1005			*
	RR905-907	nsp	nsp	RM73B--102FT +1608			
	RR917	nsp	nsp	RM73B2B0R0KT +3216			
	RA401,402	nsp	nsp	MNR14=220JE0AB +C			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
CAPACITORS GROUP							
	C101	nsp	nsp	CK73B1A105KT +1608			
	C102	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C103-105	nsp	nsp	CK73B1A105KT +1608			
	C106,107	nsp	nsp	CK73F1H103ZT +1005			
	C108-110	nsp	nsp	CK73B1E103KT(1005)			
	C111	nsp	nsp	CK73F1H103ZT +1005			
	C112	nsp	nsp	CK73B1A106KT +2125			
	C113	nsp	nsp	CK73F1H103ZT +1005			
	C114	nsp	nsp	CK73B1A106KT +2125			
	C115	nsp	nsp	CK73B1A105KT +1608			
	C116	nsp	nsp	CK73F1C104ZT +1005			
	C117,118	nsp	nsp	CK73B1A105KT +1608			
	C119,120	nsp	nsp	CK73B1E223KT +1608			
	C121,122	nsp	nsp	CK73F1C104ZT +1005			
	C123,124	nsp	nsp	CK73B1A474KT			
	C125	nsp	nsp	CK73B1E223KT +1608			
	C126	nsp	nsp	CK73F1H103ZT +1005			
	C127	nsp	nsp	CK73F1C104ZT +1005			
	C129,130	nsp	nsp	CK73F1H103ZT +1005			
	C131	nsp	nsp	CK73B1H222KT +1608			
	C132	nsp	nsp	CK73B1E103KT(1005)			
	C133	nsp	nsp	CC73CH1H471JT +1608			
	C134	nsp	nsp	CK73F1H103ZT +1005			
	C135-138	nsp	nsp	CK73B1E683KT(1608) +1608			
	C139,140	nsp	nsp	CK73B1A104KT +1005			
	C141	nsp	nsp	CK73F1C104ZT +1005			
	C142	nsp	nsp	CK73B1A106KT +2125			
	C143	nsp	nsp	CK73F1H103ZT +1005			
	C144	nsp	nsp	CC73CH1H331JT +1608			
	C145	nsp	nsp	CK73B1A106KT +2125			
	C146-148	nsp	nsp	CC73CH1H471JT +1608			
	C149	nsp	nsp	CK73B1A104KT +1005			
	C150,151	nsp	nsp	CK73B1H102KT +1005			
	C152	nsp	nsp	CC73CH1H471JT +1608			
	C153	nsp	nsp	CK73B1A104KT +1005			
	C154	nsp	nsp	CK73B1E103KT(1005)			
	C155	nsp	nsp	CK73F1H103ZT +1005			
	C156-158	nsp	nsp	CK73F1C104ZT +1005			
	C159	nsp	nsp	CK73F1H103ZT +1005			
	C160,161	nsp	nsp	CK73B1E103KT(1005)			
	C162	nsp	nsp	CK73F1H103ZT +1005			
	C163,164	nsp	nsp	CK73F1C104ZT +1005			
	C165	nsp	nsp	CC73CH1H101JT +1005			
	C166	nsp	nsp	CK73B1A106KT +2125			
	C167-170	nsp	nsp	CK73F1C104ZT +1005			
	C171,172	nsp	nsp	CK73F1H103ZT +1005			
	C173	nsp	nsp	CK73F1C104ZT +1005			
	C174	nsp	nsp	CE67C1C220MT (RV2) +REF			
	C175-177	nsp	nsp	CK73F1C104ZT +1005			
	C178	nsp	nsp	CK73F1H103ZT +1005			
	C179	nsp	nsp	CK73F1C104ZT +1005			
	C180,181	nsp	nsp	CK73F1H103ZT +1005			
	C182	nsp	nsp	CK73B1E103KT(1005)			
	C185-187	nsp	nsp	CK73F1H103ZT +1005			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C188,189	nsp	nsp	CK73F1C104ZT +1005			
	C190	nsp	nsp	CK73F1H103ZT +1005			
	C191,192	nsp	nsp	CK73F1C104ZT +1005			
	C193-195	nsp	nsp	CK73B1A104KT +1005			
	C196-198	nsp	nsp	CK73F1C104ZT +1005			
	C199,200	nsp	nsp	CK73F1H103ZT +1005			
	C201-203	nsp	nsp	CK73F1C104ZT +1005			
	C204,205	nsp	nsp	CC73CH1H8R0DT +1608			
	C206,207	nsp	nsp	CK73B1E103KT(1005)			
	C208,209	nsp	nsp	CK73B1A104KT +1005			
	C210	nsp	nsp	RM73B--0R0KT+1005			
	C211,212	nsp	nsp	CK73B1E103KT(1005)			
	C213	nsp	nsp	CE67C1C220MT (RV2) +REF			
	C214	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C215	nsp	nsp	CK73F1C104ZT +1005			
	C216	nsp	nsp	CK73B1H103KT (1608) +1608			
	C217	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C218,219	nsp	nsp	CK73F1C104ZT +1005			
	C222	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C223	nsp	nsp	CK73B1A106KT +2125			
	C224	nsp	nsp	CK73F1C104ZT +1005			
	C226	nsp	nsp	CK73F1C104ZT +1005			
	C227	nsp	nsp	CK73F1H103ZT +1005			
	C230	nsp	nsp	CK73F1C104ZT +1005			
	C231-234	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C235	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C301,302	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C303	nsp	nsp	CK73F1C104ZT +1005			
	C304-308	nsp	nsp	CK73F1H103ZT +1005			
	C309,310	nsp	nsp	CK73B1E103KT(1005)			
	C311	nsp	nsp	CK73F1H103ZT +1005			
	C312,313	nsp	nsp	CK73B1E103KT(1005)			
	C314	nsp	nsp	CK73F1C104ZT +1005			
	C315	nsp	nsp	CK73F1H103ZT +1005			
	C316,317	nsp	nsp	CC73CH1H120JT +1005			
	C318	nsp	nsp	CK73F1C104ZT +1005			
	C319-323	nsp	nsp	CK73F1H103ZT +1005			
	C324-326	nsp	nsp	CK73F1C104ZT +1005			
	C401	nsp	nsp	CK73F1C104ZT +1005			
	C402	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C403,404	nsp	nsp	CK73F1C104ZT +1005			
	C406-411	nsp	nsp	CK73F1C104ZT +1005			
	C412	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C413	nsp	nsp	CK73B1H102KT +1005			
	C414,415	nsp	nsp	CK73F1C104ZT +1005			
	C418	nsp	nsp	CK73F1C104ZT +1005			
	C423-426	nsp	nsp	CK73F1C104ZT +1005			
	C427	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C428-432	nsp	nsp	CK73F1C104ZT +1005			
	C433	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C434	nsp	nsp	CK73F1H103ZT +1005			
	C435	nsp	nsp	CK73F1C104ZT +1005			
	C501	nsp	nsp	CK73F1C104ZT +1005			
	C502	nsp	nsp	CC73CH1H102JT +1608			
	C503	nsp	nsp	CK73F1C104ZT +1005			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C504	nsp	nsp	CC73CH1H102JT +1608			
	C505	nsp	nsp	CK73F1C104ZT +1005			
	C506	nsp	nsp	CC73CH1H102JT +1608			
	C507	nsp	nsp	CK73F1C104ZT +1005			
	C508	nsp	nsp	CC73CH1H102JT +1608			
	C509	nsp	nsp	CS77B1A100MT(NOJ)			
	C510	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C511	nsp	nsp	CK73F1C104ZT +1005			
	C512	nsp	nsp	CC73CH1H102JT +1608			
	C513	nsp	nsp	CK73F1C104ZT +1005			
	C514	nsp	nsp	CC73CH1H102JT +1608			
	C515	nsp	nsp	CK73F1C104ZT +1005			
	C516	nsp	nsp	CC73CH1H102JT +1608			
	C517	nsp	nsp	CK73F1C104ZT +1005			
	C518	nsp	nsp	CC73CH1H102JT +1608			
	C519	nsp	nsp	CS77B1A100MT(NOJ)			
	C520	nsp	nsp	CK73F1C104ZT +1005			
	C521	nsp	nsp	CC73CH1H102JT +1608			
	C522	nsp	nsp	CK73F1C104ZT +1005			
	C523	nsp	nsp	CC73CH1H102JT +1608			
	C524	nsp	nsp	CK73F1C104ZT +1005			
	C525	nsp	nsp	CC73CH1H102JT +1608			
	C526	nsp	nsp	CS77B1A100MT(NOJ)			
	C528	nsp	nsp	CK73F1C104ZT +1005			
	C530	nsp	nsp	CC73CH1H102JT +1608			
	C531	nsp	nsp	CS77B1A100MT(NOJ)			
	C533	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C535	nsp	nsp	CK73F1H103ZT +1005			
	C536	nsp	nsp	CK73F1C104ZT +1005			
	C538	nsp	nsp	CK73B1H102KT +1005			
	C751-753	nsp	nsp	CK73F1C104ZT +1005			
	C754	nsp	nsp	CK73F1H103ZT +1005			
	C755	nsp	nsp	CK73F1C104ZT +1005			
	C756	nsp	nsp	CK73F1H103ZT +1005			
	C757	nsp	nsp	CK73F1C104ZT +1005			
	C758	nsp	nsp	CK73F1H103ZT +1005			
	C759	nsp	nsp	CK73F1C104ZT +1005			
	C901	nsp	nsp	CK73B1A105KT +1608			
	C902	nsp	nsp	CS77B1A100MT(NOJ)			
	C903,904	nsp	nsp	CK73B1A105KT +1608			
	C905	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C906,907	nsp	nsp	CK73B1A105KT +1608			
	C908,909	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C910	nsp	nsp	CS77B1A100MT(NOJ)			
	C911,912	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C913	nsp	nsp	CK73B1A105KT +1608			
	C914	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C915	nsp	nsp	CK73F1C104ZT +1005			
	C916	nsp	nsp	CK73B1H103KT (1608) +1608			
	C917	nsp	nsp	CK73F1H103ZT +1005			
	C918	nsp	nsp	CK73B1A106KT +2125			
	C919	nsp	nsp	CK73F1C104ZT +1005			
	C920	nsp	nsp	CK73F1H103ZT +1005			
	C921	nsp	nsp	CK73B1A106KT +2125			
	C922	nsp	nsp	CC73CH1H471JT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	C923,924	nsp	nsp	CK73F1C104ZT +1005			
	C925,926	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C927,928	nsp	nsp	CK73B1A106KT +2125			
	C929	nsp	nsp	CK73B1E223KT +1608			
	C930	nsp	nsp	CK73F1C104ZT +1005			
	C931	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C932	nsp	nsp	CK73F1C104ZT +1005			
	C933	nsp	nsp	CK73B1A105KT +1608			
	C934	nsp	nsp	CK73F1C104ZT +1005			
	C935	nsp	nsp	CE67C0J220MT (RV2) +REF			
	C937	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C938	nsp	nsp	CK73F1C104ZT +1005			
	C940	nsp	nsp	CE67C0J101MT (RV2) +REF			
	C941	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C942	nsp	nsp	CK73F1C104ZT +1005			
	C943	nsp	nsp	CK73B1A105KT +1608			
	C944	nsp	nsp	CK73B1A106KT +2125			
	C945	nsp	nsp	CK73B1H103KT (1608) +1608			
	C946,947	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C948,949	nsp	nsp	CK73F1C104ZT +1005			
	C950	nsp	nsp	CK73B1A106KT +2125			
	C951	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C952	nsp	nsp	CK73F1C104ZT +1005			
	C953	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C954	nsp	nsp	CK73F1C104ZT +1005			
	C955	nsp	nsp	CE67C1C101MT (RV2) +REF			
	C956	nsp	nsp	CK73F1C104ZT +1005			
	C957	nsp	nsp	CK73B1A106KT +2125			
	C960	nsp	nsp	CK73B1A106KT +2125			
	C962	nsp	nsp	CK73F1E104ZT +1608			
	C963	nsp	nsp	CK73B1H103KT (1608) +1608			
	C964	nsp	nsp	CK73F1E104ZT +1608			
	C965	nsp	nsp	CK73B1H103KT (1608) +1608			
	C990,991	nsp	nsp	CK73F1C104ZT +1005			
	C992	nsp	nsp	CK73B1A106KT +2125			
	C993	nsp	nsp	CC73CH1H471JT +1608			
	C994	nsp	nsp	CK73B1A106KT +2125			
OTHERS PARTS GROUP							
	CX061	nsp	nsp	6P PH CON.BASE(L) +REF			
	CX063	nsp	nsp	6P VH CONNECTOR BASE			
	CX071	nsp	nsp	7P PH CON.BASE(L) +REF			
	CX182	nsp	nsp	18P-FFC-BASE(9617S)			*
	CX402	nsp	nsp	40P-FFC-BASE(FH12)			
	CX451,452	nsp	nsp	45P-FFC-BASE(9637SA)			*
	FB101-105	nsp	nsp	FBMJ1608HS280NT +1608			
	FB106,107	nsp	nsp	RM73B--0R0KT +1608			
	FB301,302	nsp	nsp	RM73B--0R0KT +1608			
	FB901,902	nsp	nsp	FBMJ1608HS280NT +1608			
	FB904-908	nsp	nsp	FBMJ1608HS280NT +1608			
	FB910,911	nsp	nsp	FBMJ1608HS280NT +1608			
	FB912,913	nsp	nsp	MMZ1608D241C			
	FB914-919	nsp	nsp	FBMJ1608HS280NT +1608			

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
	FB920-931	nsp	nsp	RM73B--0R0KT +1608			
	FB932	nsp	nsp	FBMJ1608HS280NT +1608			
	FB933-936	nsp	nsp	RM73B--0R0KT +1608			
	X100	nsp	nsp	FCX-03(33.8688MHz)			*
	X301	nsp	nsp	FCX-03(25MHZ)			
		nsp	nsp	100mm UL1571AWG30			

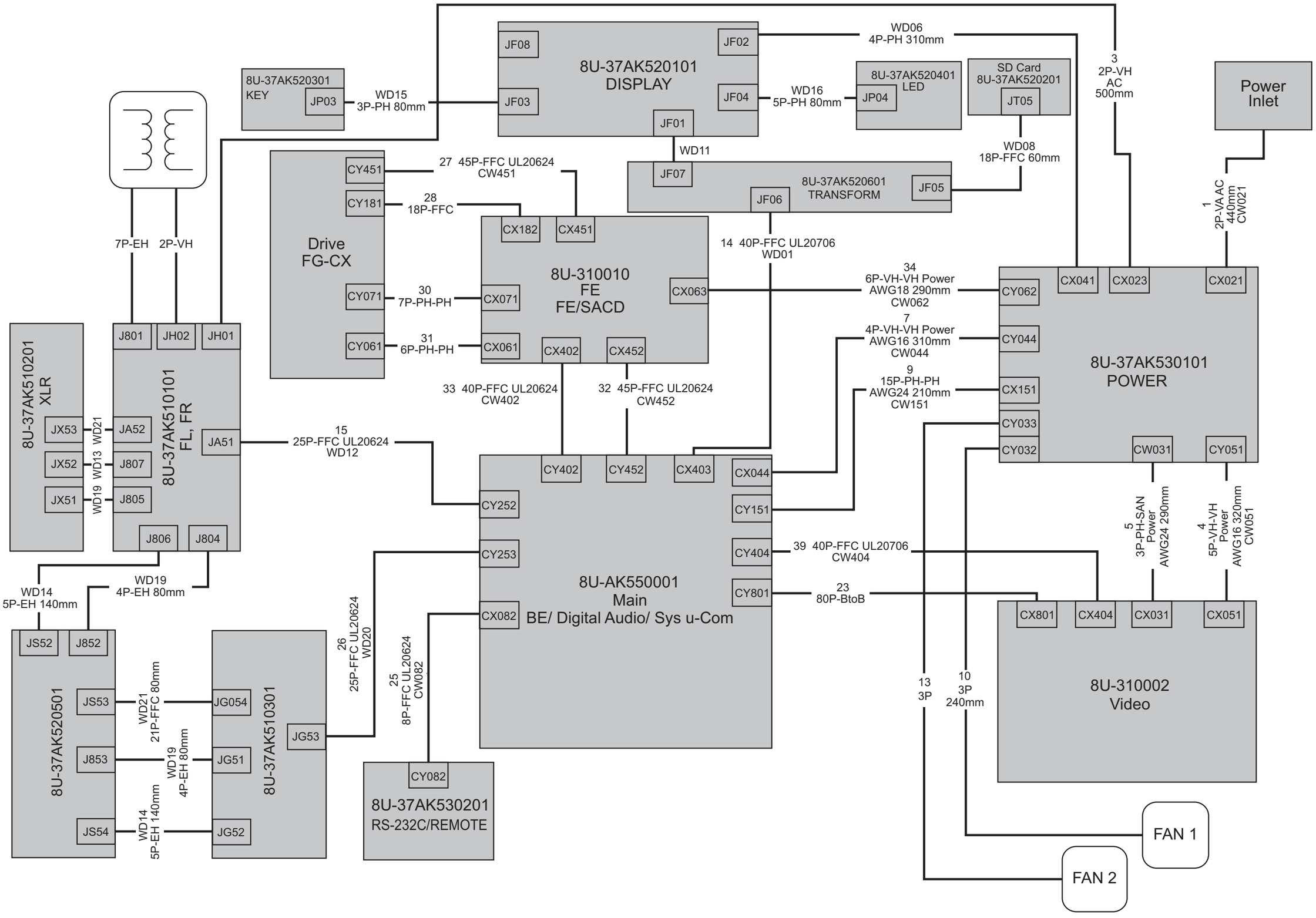
8U-210075A FE REG PWB UNIT ASSY

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP							
	IC101	231810059508S	231810059508S	BA50DD0WHFP-TR			*
	D101	00D2760717903	00D2760717903	1SS355 TE-17 +C			
CAPACITORS GROUP							
	C101	00D2544655906	00D2544655906	CE67C0J220MT (RV2) +REF			
	C102	nsp	nsp	CK73F1C104ZT +1005			
	C103	nsp	nsp	CK73F1H103ZT +1005			
	C104	nsp	nsp	CK73F1C104ZT +1005			
	C105	00D2574012917	00D2574012917	CE67C1C220MT (RV2) +REF			
	C106	00D2544655906	00D2544655906	CE67C0J220MT (RV2) +REF			
	C107,108	00D2574011905	00D2574011905	CE67C0J101MT (RV2) +REF			
OTHERS PARTS GROUP							
	CX059	nsp	nsp	5P PH CON.BASE(L) +REF			
	FB101,102	00D2350136907	00D2350136907	FBMJ1608HS280NT +1608			

1U-3791 FGCX P.W.B. UNIT ASS'Y

	Ref. No.	Part No. (for EUR)	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP							
	LD101,102	00D2690220007	00D2690220007	GP1S094HCZ(JP)			
CAPACITORS GROUP							
	C101-105	nsp	nsp	CK73B1E104KT +1608			
OTHERS PARTS GROUP							
	CX031	nsp	nsp	3P CONN.BASE(KR-PH)			
	CX032	nsp	nsp	3P CONN.BASE(KR-PH)			
	CX033	nsp	nsp	3P CONNE.BASE(BLK)			
	CX061	nsp	nsp	6P CONN.BASE(KR-PH)			
	CX071	nsp	nsp	7P CONN.BASE(KR-PH)			
	CY051	nsp	nsp	5P CONN.BASE(KR-PH)			
	S101	00D2121206008	00D2121206008	SPVF130100			

WIRING DIAGRAM



EXPLODED VIEW

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

SYMBOL	STYLE	PARTS NAME
5110		+B.H.M.SCREW
5125		+B.H.TAP TITE SCREW(P TYPE)
5126		+B.H.TAP TITE SCREW W/WASHER
5127		+P.H.TAP TITE SCREW(B TYPE)
5128		+B.H.TAP TITE SCREW(B TYPE)
5129		+B.H.TAP TITE SCREW(W/T.L.WASHER)
5146		+B.H.M.SCREW(W/T.L.WASHER)
5192		+F.P.H.TAPTITE SCREW(B TYPE)

MARK	MATERIAL/FINISH
(M)	STEEL/COPPER
(U)	STEEL/BLACK
(A)	STEEL/CHROMATE

PARTS LIST OF EXPLODED VIEW

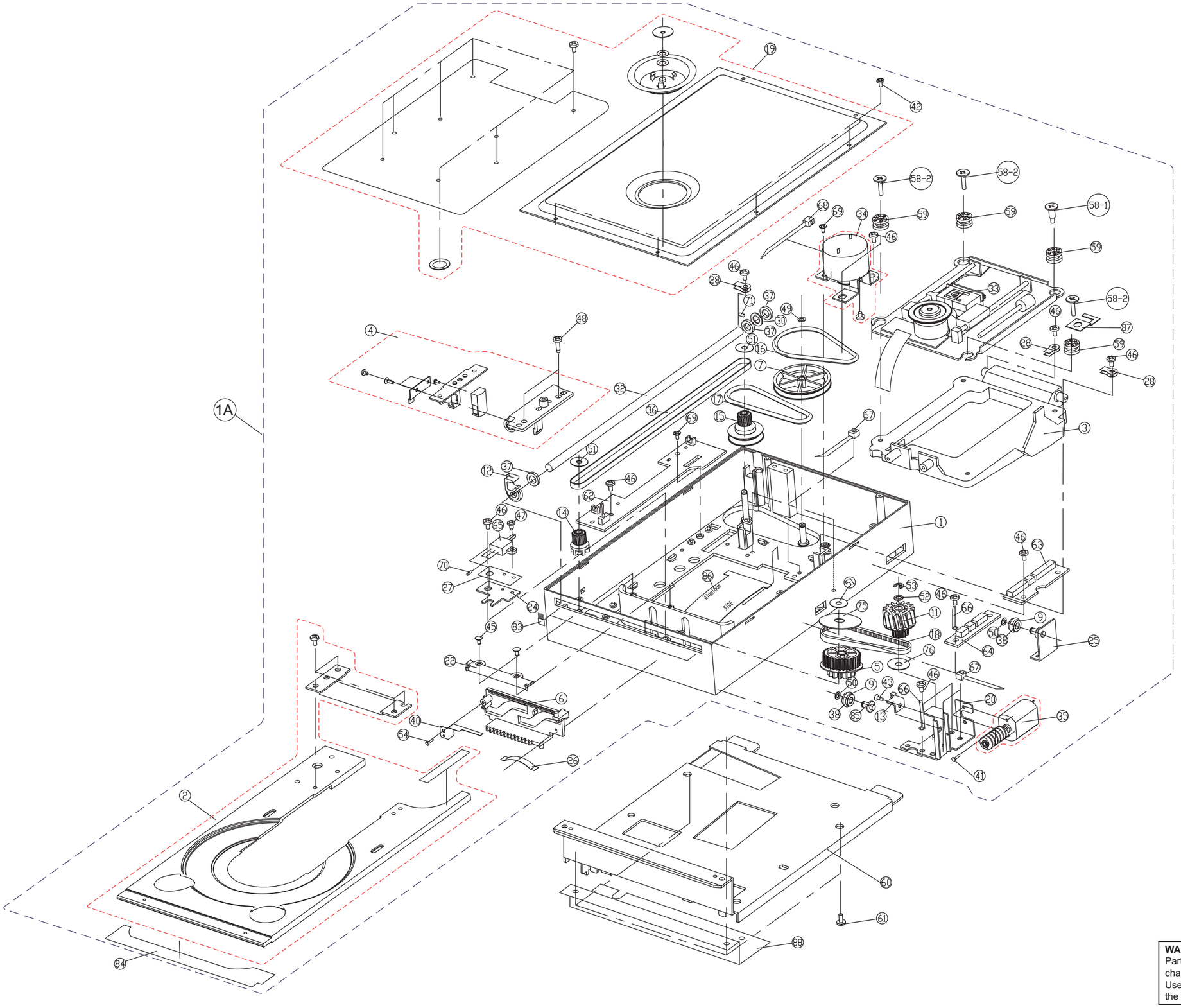
* Parts for which "nsp" is indicated on this table cannot be supplied.
* P.W.B. ASS'Y for which "nsp" is indicated on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts table and order replacement parts.
* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.
* Part indicated with the mark " ★ " is not illustrated in the exploded view.

Note: The symbols in the column "Remarks" indicate the following destinations.
U : North America model N : Europe model S : Singapore model R : Russia model

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
	A	nsp	AUDIO PWB ASSY		1	*	
⚠	A-1	-	AUDIO FRONT L/R PWB			*	
	A-2	-	AUDIO XLR PWB			*	
	A-3	-	AUDIO SUR_BACK/S_W PWB			*	
	B	nsp	FRONT/AUDIO PWB ASSY		1	*	
	B-1	-	FRONT PWB			*	
	B-2	-	SD CARD PWB			*	
	B-3	-	KEY PWB			*	
	B-4	-	STANDBY KEY LED PWB			*	
	B-5	-	AUDIO SUR/CENTER PWB			*	
	B-6	-	CONNECTOR PWB			*	
	C	nsp	POWER PWB ASSY (8U-210048AZ)		1	*	
⚠	C-1	-	POWR PWB ASSY			*	
	C-2	-	RS232C/REMOTE PWB ASSY			*	
	D	8U-310002AZ	VIDEO UNIT		1		
	E	8U-37AK550002	MAIN PWB ASSY	for U	1	*	
	E	8U-37AK550003	MAIN PWB ASSY	for N	1	*	
	E	8U-37AK550004	MAIN PWB ASSY	for S	1	*	2
	E	8U-37AK550005	MAIN PWB ASSY	for R	1	*	2
	F	8M3041000100M	BD MECHA UNIT FOR MARANTZ		1	*	
	F-1	-	BD LORDING UNIT FOR MARANTZ			*	
	F-2	-	FE/SACD UNIT0				
	★ F-3	-	FE REG PWB UNIT0				
	1	402410073003M	FRONT AL PANEL BL UD9004 37AK		1	*	
	2	421410006004M	MARANTZ BADGE (AL) FOR M1 MODEL		1		
	3	421410011006M	BADGE BD UD9004 37AK		1	*	
	4	441510036107M	FRONT MOLD CHASSIS BL UD9004 37AK		1	*	
	5	416510029004M	WINDOW UD9004 37AK		1	*	
	6	nsp	BUFFER DOOR UD9004 37AK		2	*	2
	7	422510030009M	ESCUTCHEON INNER DOOR UD9004 37AK		1	*	
	8	00M271K305010	MAGNET		1		
	9	411510089001M	BUTTON AL CAP TRAY SIDE BL UD9004 37AK		4	*	
	10	411510087005M	BUTTON TRAY UNDER BL UD9004 37AK		2	*	
	11	411510088008M	BUTTON DOOR INNER BL UD9004 37AK		1	*	
	12	415410013007M	DOOR AL PANEL BL UD9004 37AK		1	*	
	13	417510011105M	HINGE DOOR L BL UD9004 37AK		1	*	
	14	417510012108M	HINGE DOOR R BL UD9004 37AK		1	*	
	15	nsp	BRACKET DOOR MAGNET UD9004 37AK		1	*	2
	16	nsp	SHAFT DOOR UD9004 37AK		2	*	2
	17	nsp	BRACKET DUMPER UD9004 37AK		1	*	2
	18	474510007017M	DAMPER NIFCO 001P E 3.9MN_M		1	*	
	19	404510023102M	SIDE ESCUTCHEON L BL UD9004 37AK		1	*	
	20	411510021005M	BUTTON BL		1		
	21	481510003006M	LENS		1		
	22	404510024105M	SIDE ESCUTCHEON R BL UD9004 37AK		1	*	
	23	nsp	BUFFER		2		
	24	403310027004M	TOP COVER CENTER BL UD9004 37AK		1	*	

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
	25	403310028106M	TOP COVER L UD9004 37AK		1	*	
	26	403310029109M	TOP COVER R UD9004 37AK		1	*	
	27	nsp	BUFFER		4		
	29	nsp	BUFFER KITAGAWA SHSG-010050		4		
	32	nsp	BUFFER		2		
	38	407410013006M	LEG COPPER		4	*	
	40	00M208J259010	BUSH		1		
	42	nsp	SHIELD CU-SHEET UD9004 37AK		1	*	△2
	43	nsp	PUSH RIVET KOYO P3555 94V-2		3		
	44	nsp	SHEET UD9004 37AK		1	*	△2
	48	0RD4737033003	3X32 CBTS-S (B)		8		
	49	nsp	LOCKING CARD SPACER		5		
	57	nsp	BUFFER		1		
	58	512350002006P	SCREW(2.9X8)		4		
	59	449010013004D	FAN(3110RL-04W-S29-C04_80X80X25)		2		
	62	422410031003M	ESCUTCHEON TRAY BL UD9004 37AK		1	*	
	64	421410013002M	BADGE MECHA UD9004 37AK		2	*	
	65	nsp	BRACKET MECHA FRONT UD9004 37AK		1	*	
	66	nsp	LASER LABEL		1		
⚠	67	00D2033996008	AC INLET (2P)		1		
⚠	68	101010031010M	MAIN TRANSFORMER AC230V TOROIDAL	for N, S, R	1		△2
⚠	68	101010031027M	MAIN TRANSFORMER AC120V TOROIDAL	for U	1		
	★ 69	451510044105D	FFC HOLDER		1		
	★ 70	00D3420032024	FERRITE CLAMP(RFC-9)		1		
	★ 71	00MFC50250020	TFCK-25-15-12		1		
	★ 72	00MFC50230010	TFCK-23-11-14		1		
	★ 73	nsp	LABEL BD ZONE UD9004 (S) 37AK	for S	1	*	△2
	★ 73	nsp	LABEL BD ZONE UD9004 (R) 37AK	for R	1	*	△2
SCREWS							
	101	509350001007D	3X8 BBS		2		
WIRES							
	★ 301	nsp	15P/2P 210mm PH/ZH-PH		1		
	★ 302	nsp	2P 260MM PH-PH		1	*	
	★ 303	nsp	2P 440mm VA		1		
	★ 304	nsp	2P 500MM VA-VA		1	*	
	★ 305	nsp	3P 80MM PH-PH		1	*	
	★ 306	nsp	4P 310mm PH-PH		1		
	★ 307	nsp	4P 310mm VH-VH		1		
	★ 308	nsp	4P 80MM EH-EH		3	*	
	★ 309	nsp	5P 140MM EH-EH		2	*	
	★ 310	nsp	5P 320mm VH-VH		1		
	★ 311	nsp	5P 80MM PH-PH		1	*	
	★ 312	nsp	6P 190MM EH-EH		1	*	
	★ 313	nsp	6P 290mm VH-VH		1		
	★ 314	606050054004S	FFC 18P 60mm 1mm BD		1		
	★ 315	606050096008S	FFC 21P 80MM 1.0MM BD		2	*	
	★ 316	606050097001S	FFC 25P 60MM 1.0MM BD		1	*	
	★ 317	606050049002S	FFC 25P 80mm 1mm BD PTAB		1		
	★ 318	606050053025S	FFC 40P 450mm 0.5mm BD		1		
	★ 319	606050053001S	FFC 40P 80mm 0.5mm BD		2		
	★ 320	606050051005S	FFC 8P 260mm 1mm BD		1		

EXPLODED VIEW OF SACD MECHANISM



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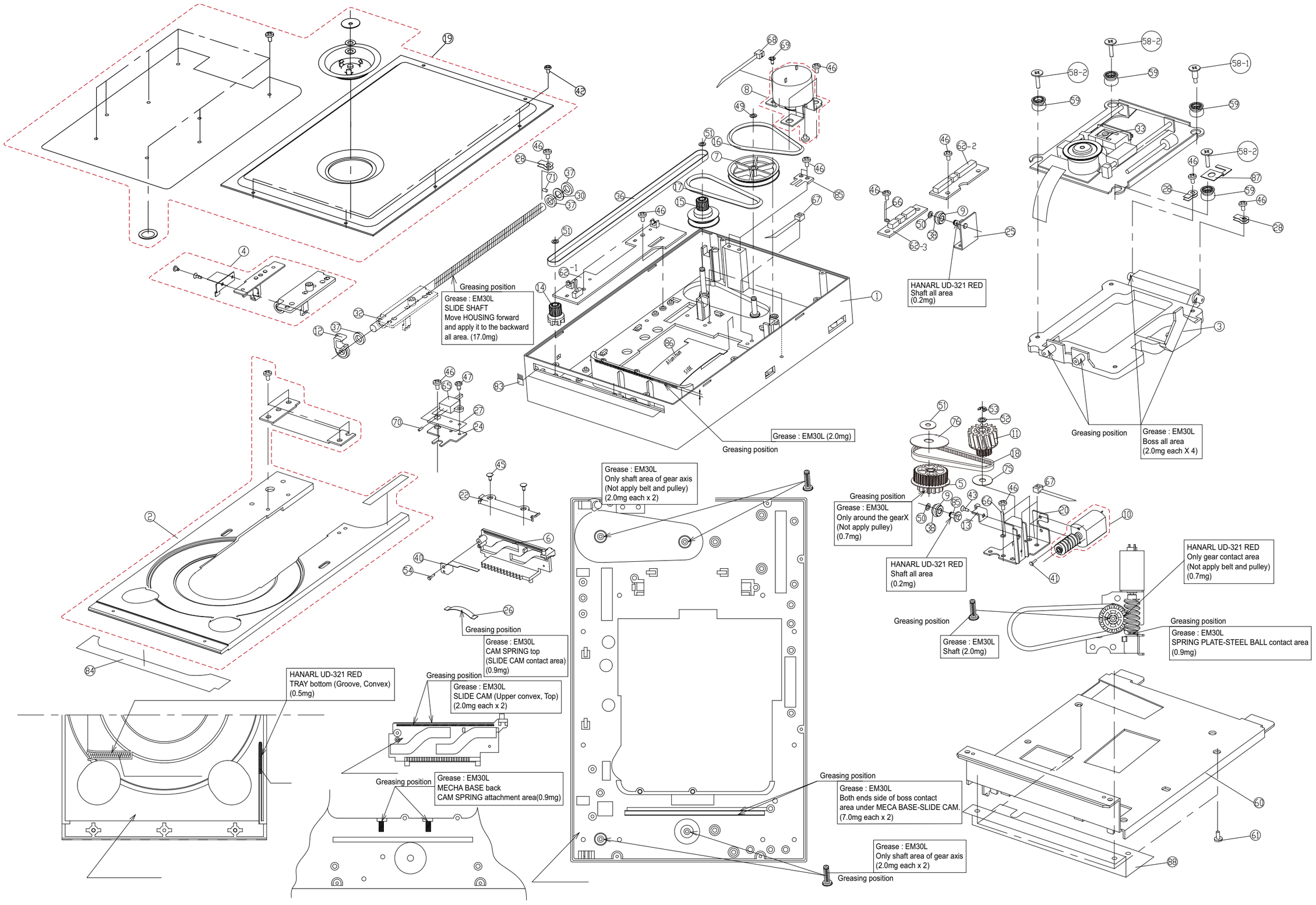
POINTS OF GREASING



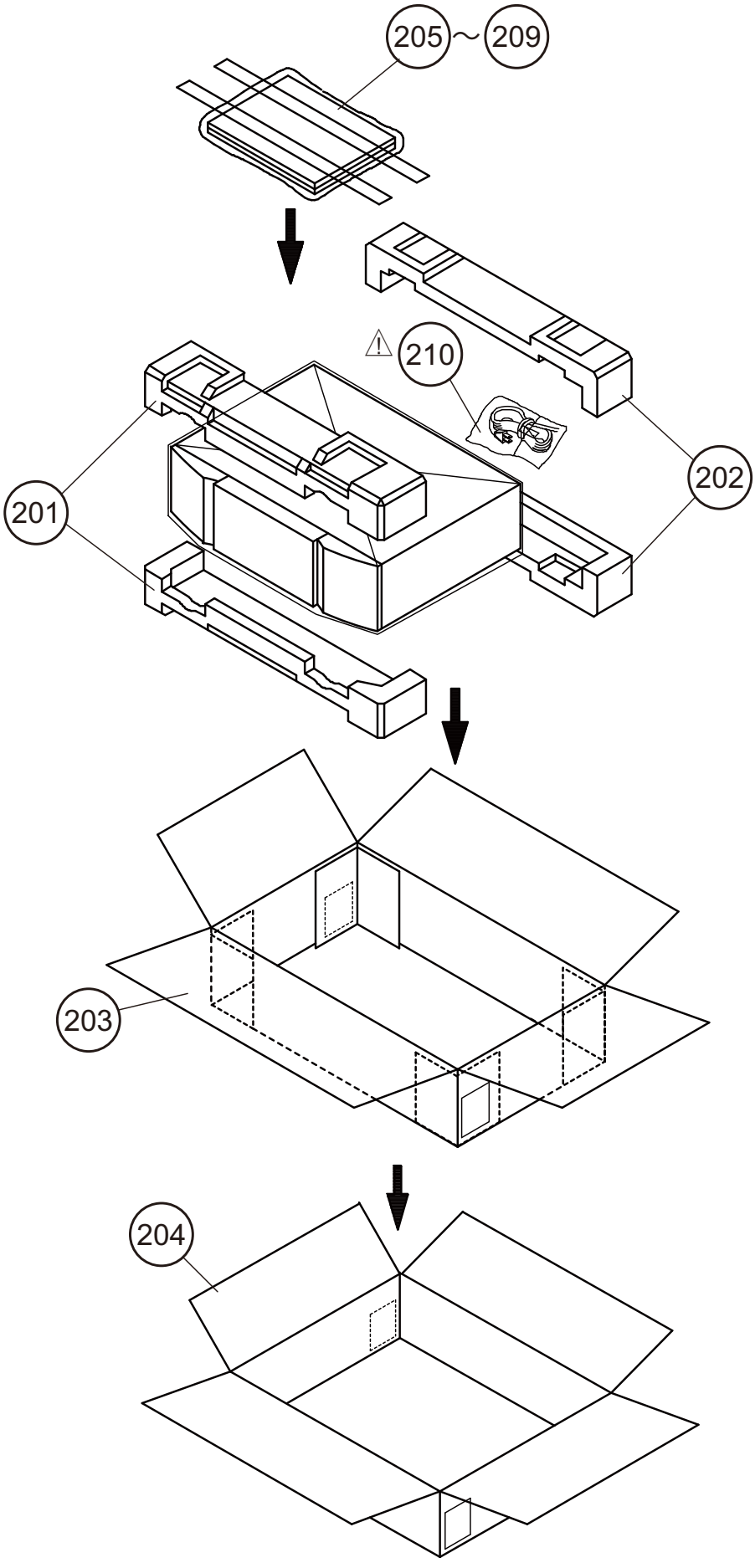
PARTS LIST OF EXPLODED VIEW

* Parts for which "nsp" is indicated on this table cannot be supplied.
* P.W.B. ASS'Y for which "nsp" is indicated on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts table and order replacement parts.
* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Ref. No.	Part No.	Part Name	Remarks	Qty	New
1A	nsp	FE/SACD UNIT			
1	nsp	MECHA BASE ASS'Y		1	
2	8S3111000200M	TRAY SUB ASSY UD9004 37AK		1	*
	-	TRAY		1	
	-	TRAY BRACKET		1	
	-	3 × 5CBS-B		5	
	-	TRAY CUSHION		1	
3	nsp	TRAVERSE FRAME		1	
4	00D9KA2A761			1	
	-	HOUSING		1	
	-	BELT HOLDER		1	
	-	SHUTTER		1	
	-	2 × 4CBS-B		1	
	-	2 × 6CFS-B		1	
	-	BELT GUIDE		1	
	-	2 × 6CBTS(P)-Z		1	
5	463510006106D	TB CAM GEAR		1	
6	00D4240280505	SLIDE CAM		1	
7	00D9KA2G974	DOUBLE PULLY		1	
9	00D4210845006	ROLLER		2	
11	463510007000D	TB WORM WHEEL		1	
12	nsp	TRAY HOLDER L		1	
13	nsp	TRAY HOLDER R		1	
14	00D9KA2G969	BELT GEAR FRONT		1	
15	00D9KA2G970	BELT GEAR REAR		1	
16	00D9KA2G968	BELT FIRST		1	
17	00D9KA2G971	BELT SECOND		1	
18	466010001006D	TIMING BELT CAM		1	
19	8S4031001100M	TOP PLATE SUB ASSY UD9004 37AK		1	*
	-	TOP PLATE		1	
	-	CLAMPER MAGNET		2	
	-	BACK YOKE		1	
	-	CLAMPER BASE		1	
	-	3 × 5CBS-B		8	
	-	SUB TOP		1	
	-	DAMPER RING		8	
20	nsp	MOTOR BRACKET ASS'Y		1	
22	nsp	CAM HOLDER		1	
24	nsp	SW BRACKET		1	
25	nsp	REAR BRACKET ASS'Y		1	
26	00D4630973105	CAM SPRING		1	
27	nsp	SWITCH SHEET		1	
28	00D4630975006	SHAFT SPRING		6	
30	00D4751179011	WASHER		1	
32	nsp	SLIDE SHAFT		1	
33	nsp	BD TRAVERSE UNIT		1	
34	00D9KA2A762	LOADING MOTOR ASSY		1	
	-	MOTOR PULLY		1	
	-	LOADINGMOTOR BRACKET		1	
	-	LOADING MOTOR		1	
	-	2.6 × 3CBS-B		2	

Ref. No.	Part No.	Part Name	Remarks	Qty	New
35	00D9KA2A763	PU U/D MOTOR ASSY		1	
-		WORM GEAR		1	
-		PU U/D MOTOR		1	
36	00D4230084009	TIMING BELT		1	
37	00D4620184001	DAMPER		3	
38	00D4210846005	O RING		2	
40	00D4630976209	BOSS SPRING		1	
41	nsp	2 × 3CBS-B		2	
42	nsp	2 × 4CBS-B		4	
43	nsp	2 × 6CFS-B		1	
45	nsp	2.6 × 5CFS-B		2	
46	nsp	3 × 5CBS-B		10	
47	nsp	2.6 × 5CBTS(S)-Z		1	
48	0RD4737005002	3 × 10CBTS(S)-Z		2	
49	00D4751190016	SLIT WASHER 1.6 × 4.0 × 0.5		1	
50	00D4751157091	SLIT WASHER 3.1 × 5.4 × 0.5		2	
51	00D4751190003	SLIT WASHER 3.1 × 12.0 × 0.5		3	
52	00D4751161016	POLY WASHER 4.1 × 6.5 × 0.5		1	
53	0RD4761003009	3E RING		1	
58-1	519350004003D	2 × 4 CCYST OT-ZNB		1	
58-2	519350003000D	2 × 10 CCYST OT-ZN		3	
59	474510001019D	DAMPER		4	
62	nsp	LOADING SENS UNIT		1	
63	nsp	LOADING UNIT		1	
64	nsp	CHACKING UNIT		1	
65	00D2121207007	SSCF210300		1	
66	nsp	CORD HOLDER		2	
67	nsp	WIRE CLAMP BAND 100mm		5	
68	nsp	WIRE CLAMP BAND 160mm		1	
69	0RD4712801030	3 × 5CFS-B		2	
70	nsp	SUMI TUBE		3	
71	nsp	SHAFT SPACER		1	
75	451510026015D	RETAINING PLATE		1	
76	451510026008D	RETAINING PLATE		1	
★78	00D2043016004	7P SHS-SHS CONN.CORD		1	
★79	00D2040612003	6P SHS-SHS CONN.CORD		1	
★80	00D2035395005	3P SHS CONN.CORD		4	
★81	00D2038578007	5P SHS CONN.CORD		5	
★82	00D2035396004	3P SHS CONN.CORD		1	
83	448010009002D	SUS BRUSH		2	
84	451310070007D	ALUMINUM SHEET		1	
85	00D4220681001	ROLLER SHAFT		1	
86	451010041002D	SHIELD GUIDE		1	
87	445510069000D	FPC COVER		1	
60	nsp	MECHA BRACKET		1	
61	0RD4700009022	3 × 6CPS(SW.W)ZNP		4	
88	nsp	BOTTOM_SHEET		1	

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

* Parts for which "nsp" is indicated on this table cannot be supplied.

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

* Part indicated with the mark " ★ " is not illustrated in the exploded view.

Note: The symbols in the column "Remarks" indicate the following destinations.
U : North America model N : Europe model S : Singapore model R : Russia model

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
	201	533610045009M	CUSHION FRONT UD9004 37AK		1	*	
	202	533610046002M	CUSHION REAR UD9004 37AK		1	*	
	203	531210097008M	PACKING CASE UD9004 37AK		1	*	
	204	nsp	MASTER CARTON UD9004 37AK	for N, R	1	*	2
	205	307010052037M	REMOTE CONTROLLER RC003UD (N)	for N, S, R	1	*	2
	205	307010052020M	REMOTE CONTROLLER RC001UD (U)	for U	1	*	
	206	00D2032405008	2P PIN CORD		1		
	207	00D2030701005	1P PIN CORD(VIDEO)		1		
	208	nsp	FLY SHEET		1	*	2
	209	541110297035M	USER MANUAL UD9004 (N) 37AK	for N, S, R	1	*	2
	209	541110297028M	USER MANUAL UD9004 (U) 37AK	for U	1	*	
⚠	210	00D2062215006	AC CORD-E1/10A/INLET	for N, S, R	1		2
⚠	210	611050024005S	AC CORD SET(E3) V	for U	1		

MEASURING METHOD AND WAVEFORMS

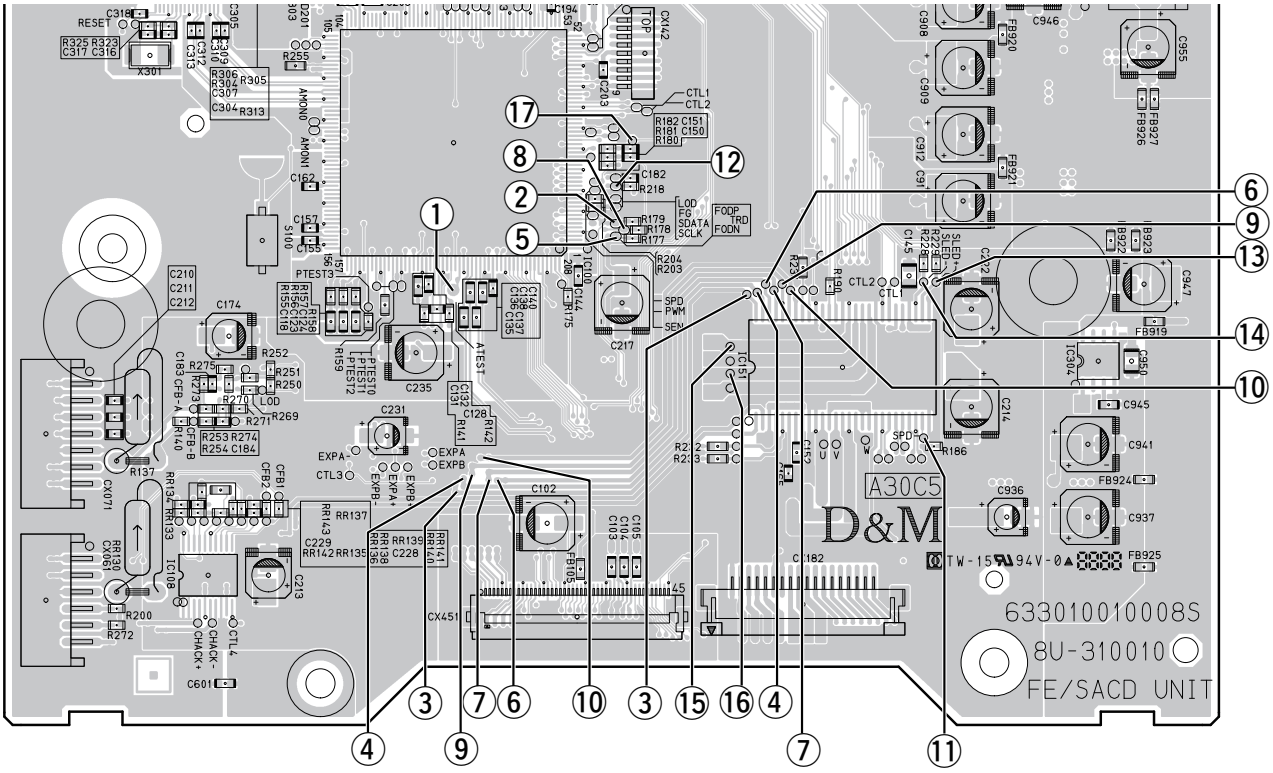
Measuring Disc: CD/TCD-784
DVD/VT502 or TDV-520A
BD/ABD-520 or BLX-108

To check the waveforms on the FE/SACD UNIT, the GND (-) probe to "⑰VC" point.
① ~ ⑰ points have the certain test points shown below.

- The HF waveform (ATEST) is not normally output. The waveform can be output by setting the test mode. Cancel the test mode to play a disc. For details, see "5. Test mode" (page 21 - 28).
  Other signals are output.
- When HF waveform (ATEST) is noisy or cannot discriminate the eye-pattern, replace the Travers Unit after measuring the IOP.

※ When watching the HF waveform (ATEST), use the extending wire as short as possible.
※ It is better to use wires for extending between the probe and test points.

1. MAIN UNIT : TEST POINT AND WAVEFORMS

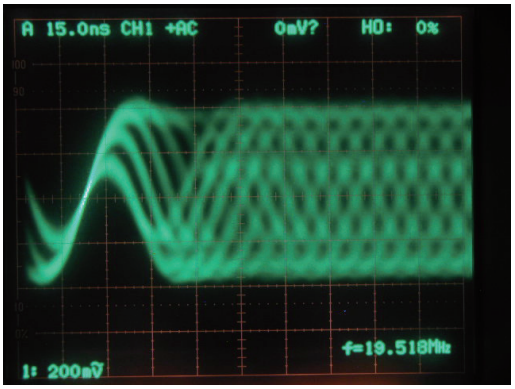


8U-310010 FE/SACD UNIT : Component Side

BD PLAY Disc : ABD-520

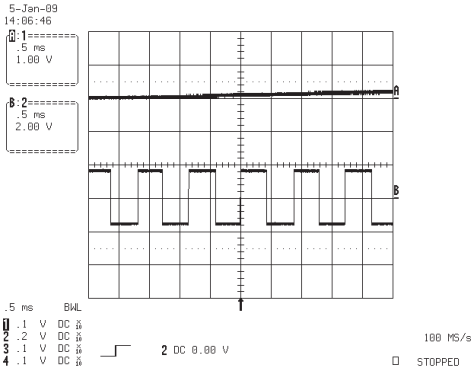
HF wave form

① ATEST



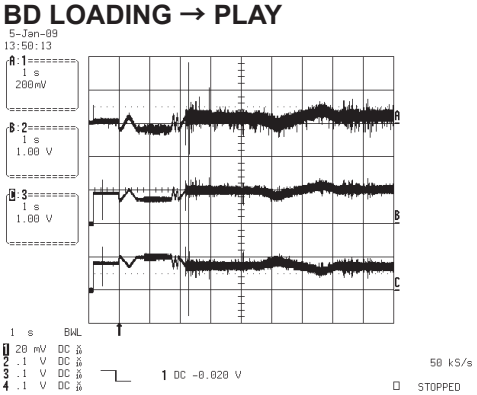
BD PLAY (INNER)

⑪ SPD
⑫ FG



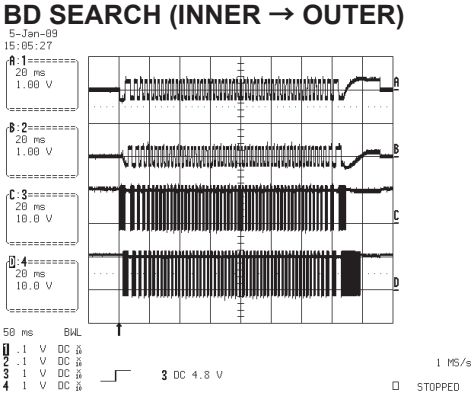
BD LOADING → PLAY

② FODP
③ FCS1+
④ FCS1-



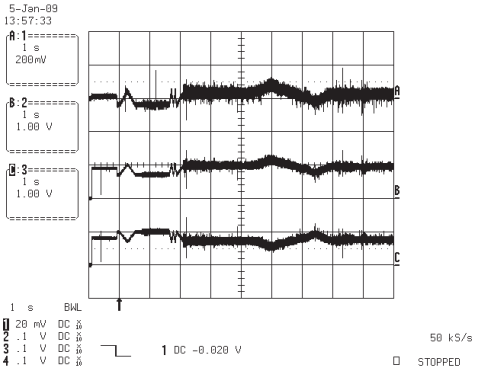
BD SEARCH (INNER → OUTER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



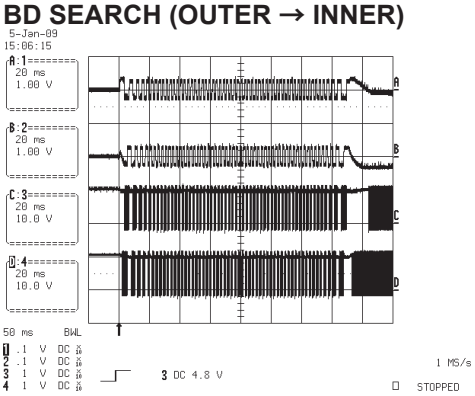
BD LOADING → PLAY

⑤ FODN
⑥ FCS2+
⑦ FCS2-



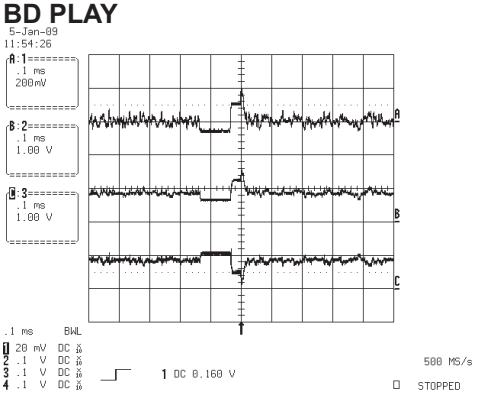
BD SEARCH (OUTER → INNER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



BD PLAY

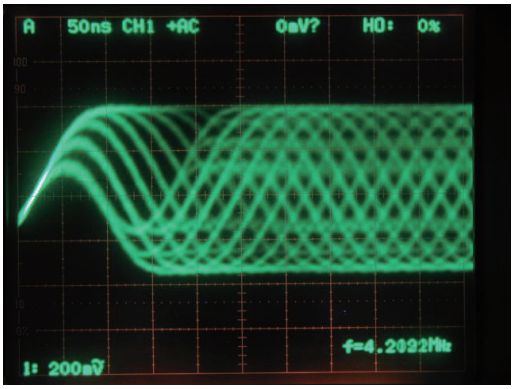
⑧ TRD
⑨ TRK+
⑩ TRK-



DVD PLAY Disc : TDV-520A

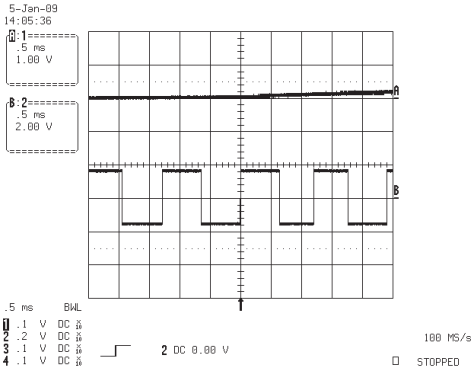
HF wave form

① ATEST



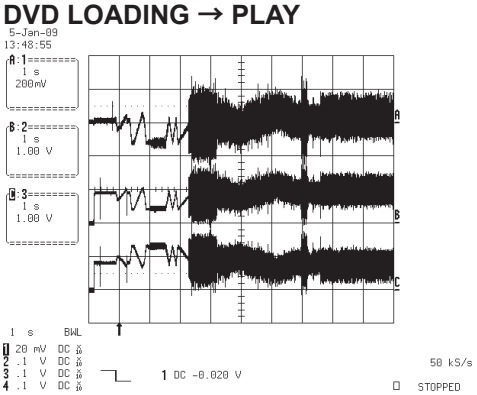
DVD PLAY (INNER)

⑪ SPD
⑫ FG



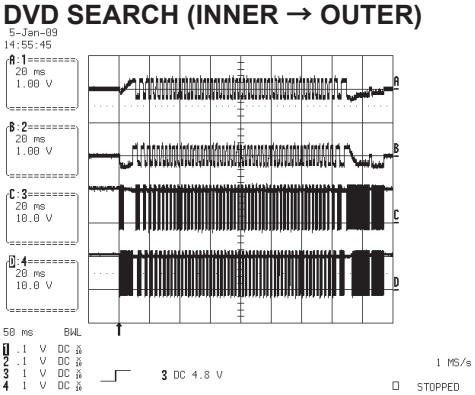
DVD LOADING → PLAY

② FODP
③ FCS1+
④ FCS1-



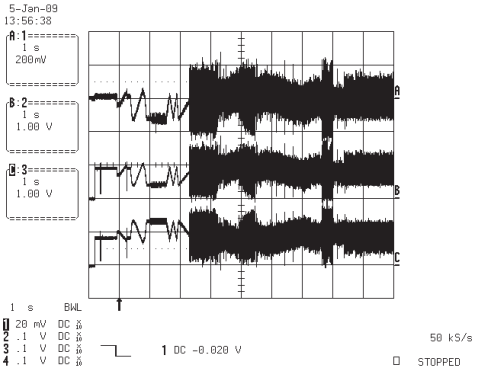
DVD SEARCH (INNER → OUTER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



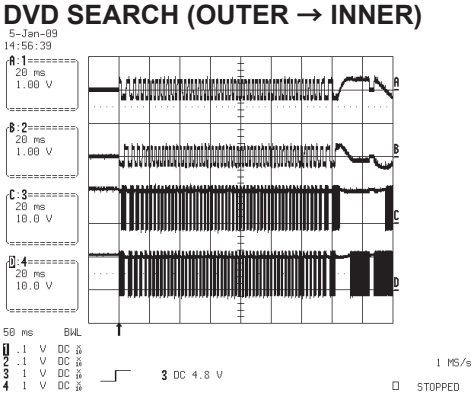
DVD LOADING → PLAY

⑤ FODN
⑥ FCS2+
⑦ FCS2-



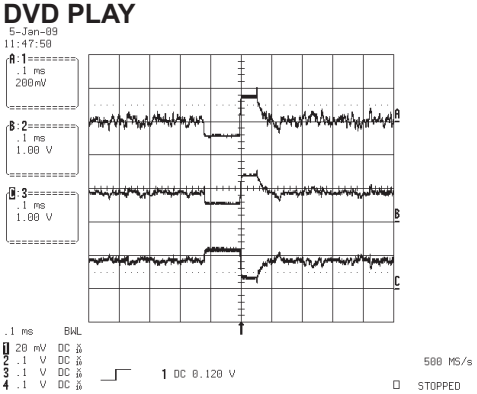
DVD SEARCH (OUTER → INNER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



DVD PLAY

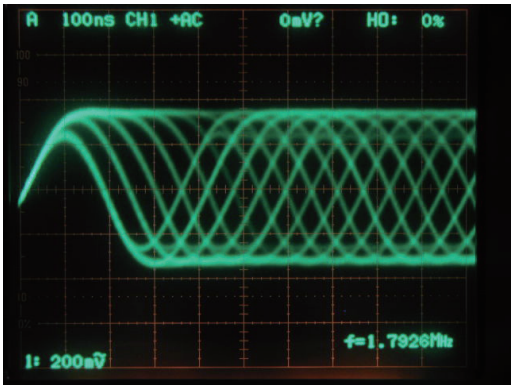
⑧ TRD
⑨ TRK+
⑩ TRK-



CD PLAY Disc: TCD-784

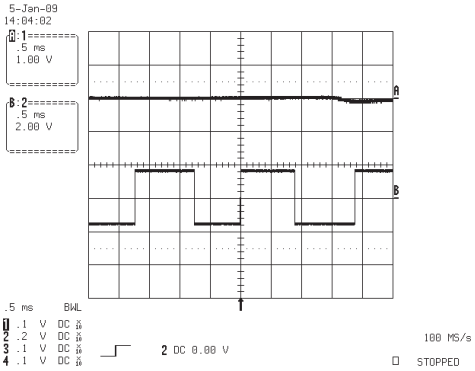
HF wave form

① ATEST



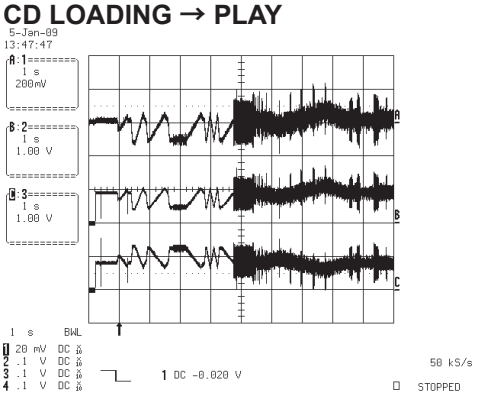
CD PLAY (INNER)

⑪ SPD
⑫ FG



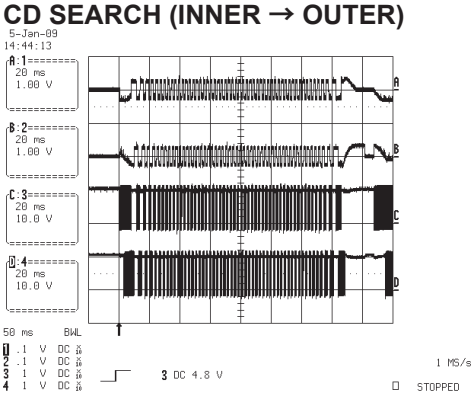
CD LOADING → PLAY

② FODP
③ FCS1+
④ FCS1-



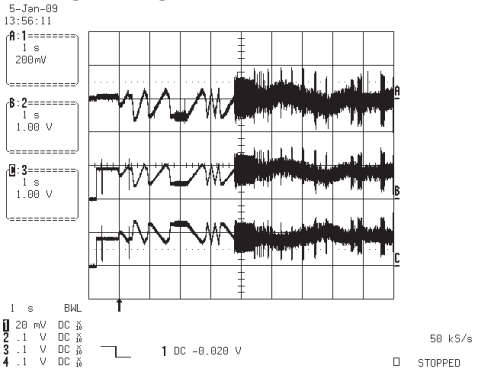
CD SEARCH (INNER → OUTER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



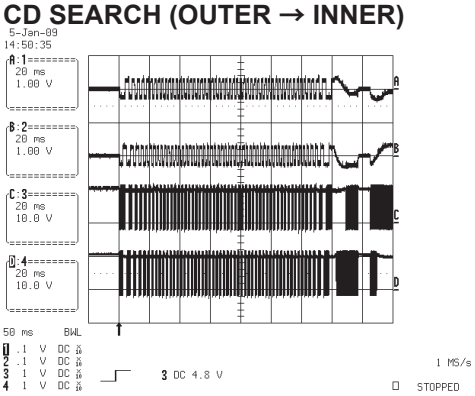
CD LOADING → PLAY

⑤ FODN
⑥ FCS2+
⑦ FCS2-



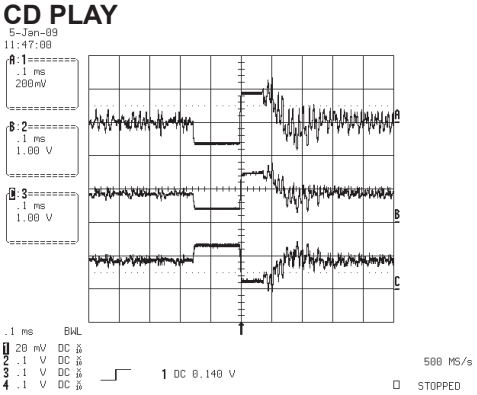
CD SEARCH (OUTER → INNER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



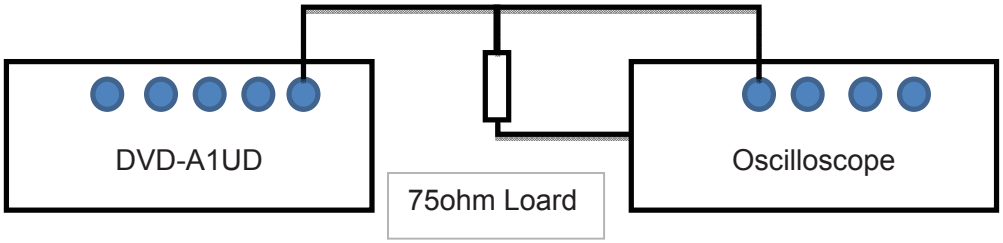
CD PLAY

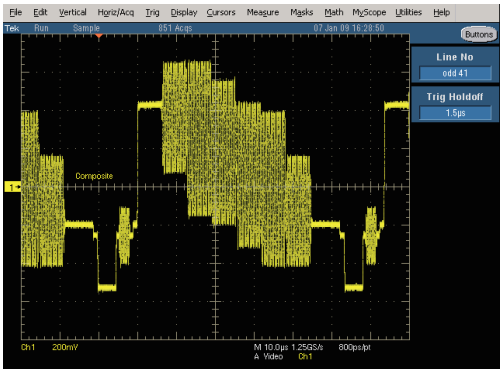
⑧ TRD
⑨ TRK+
⑩ TRK-

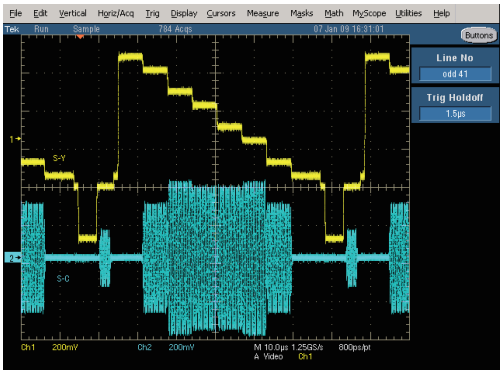


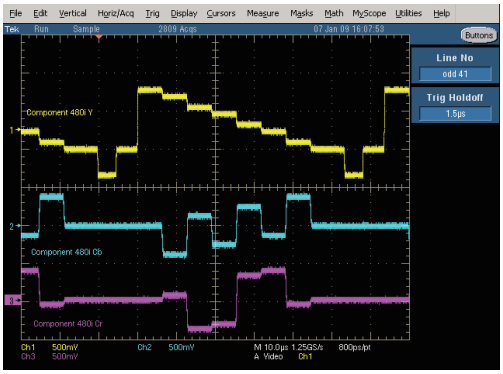
ANALOG VIDEO OUTPUT SIGNAL

Signal: Color Bar 100%









NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

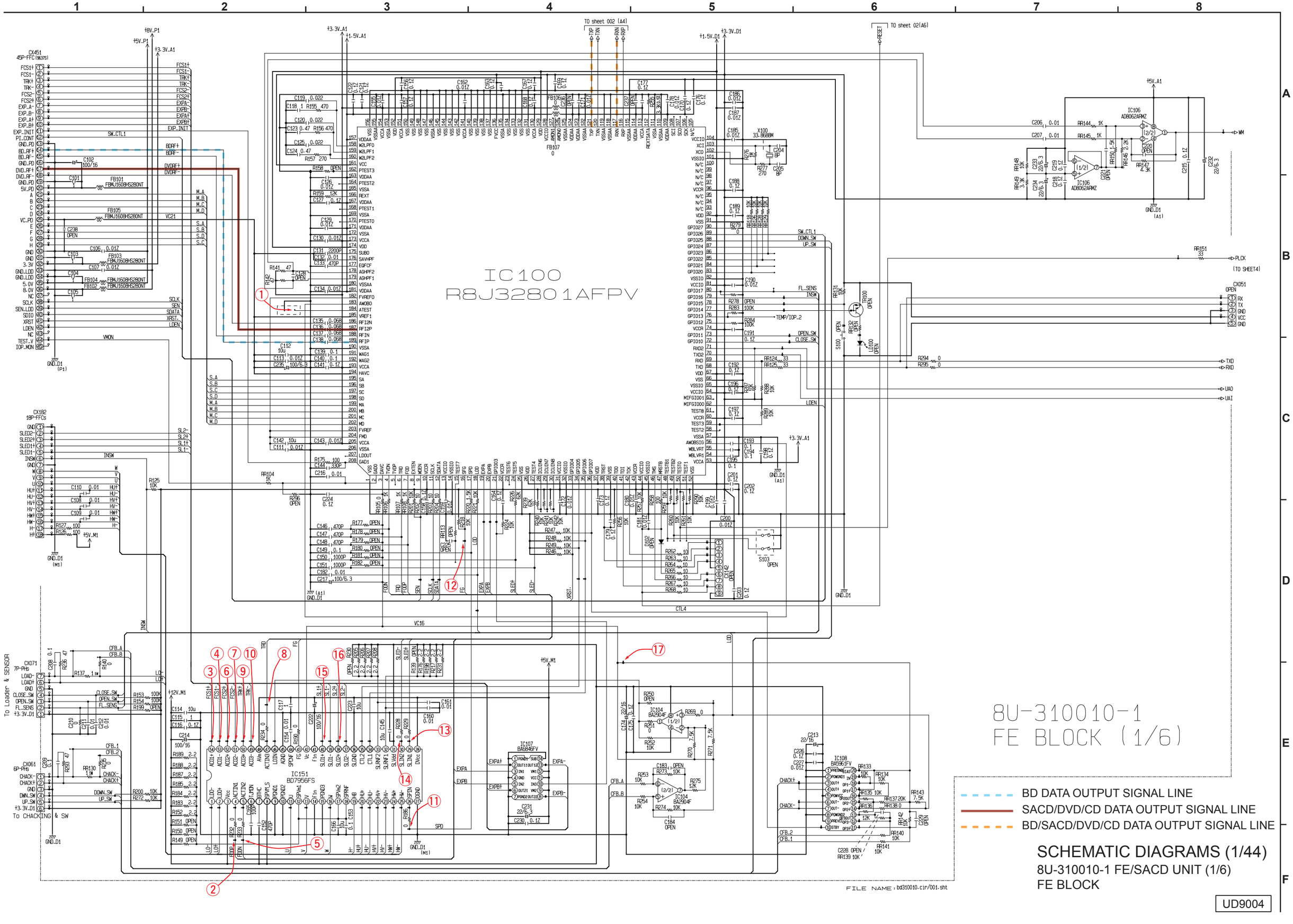
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

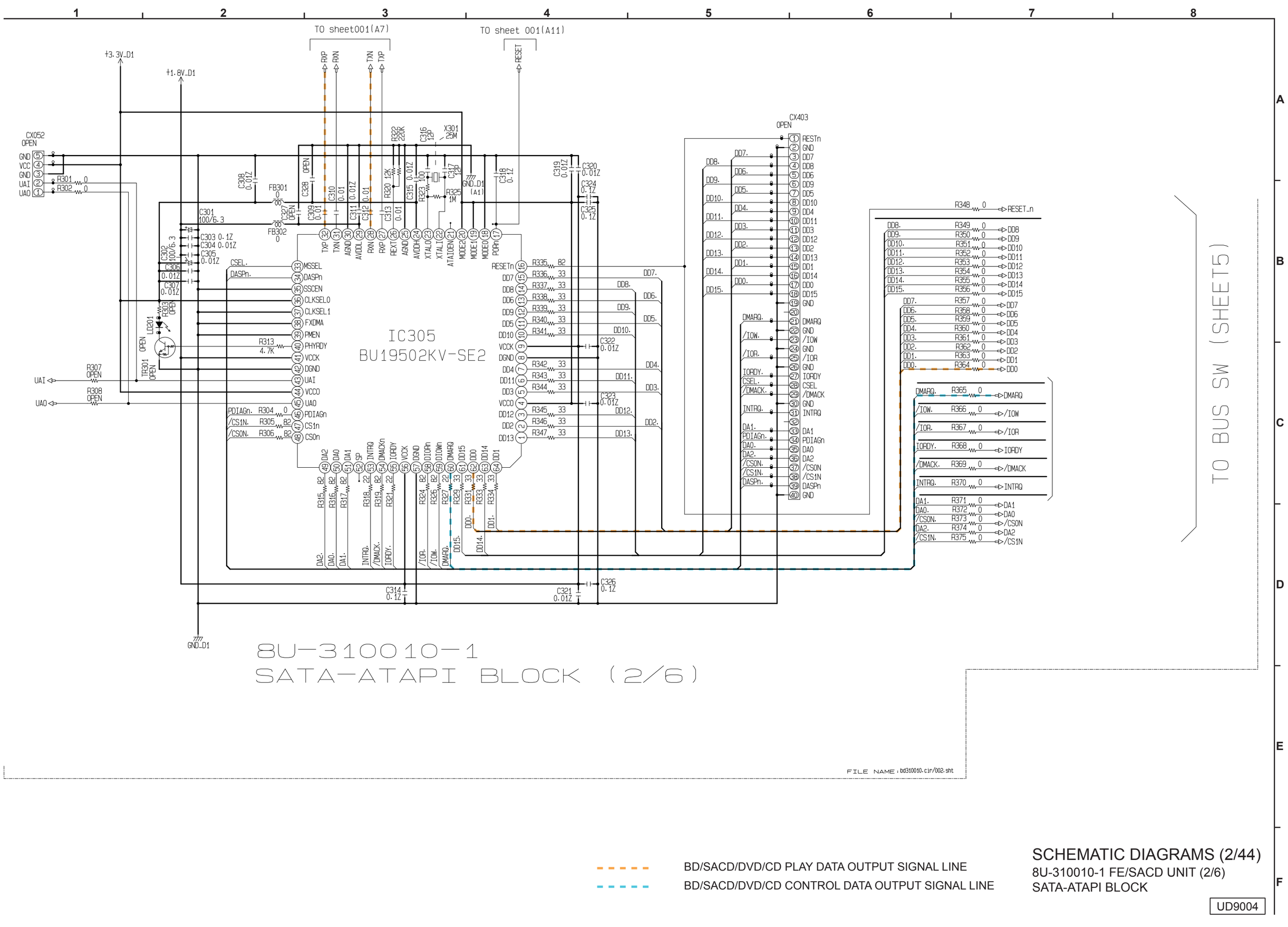
WARNING:

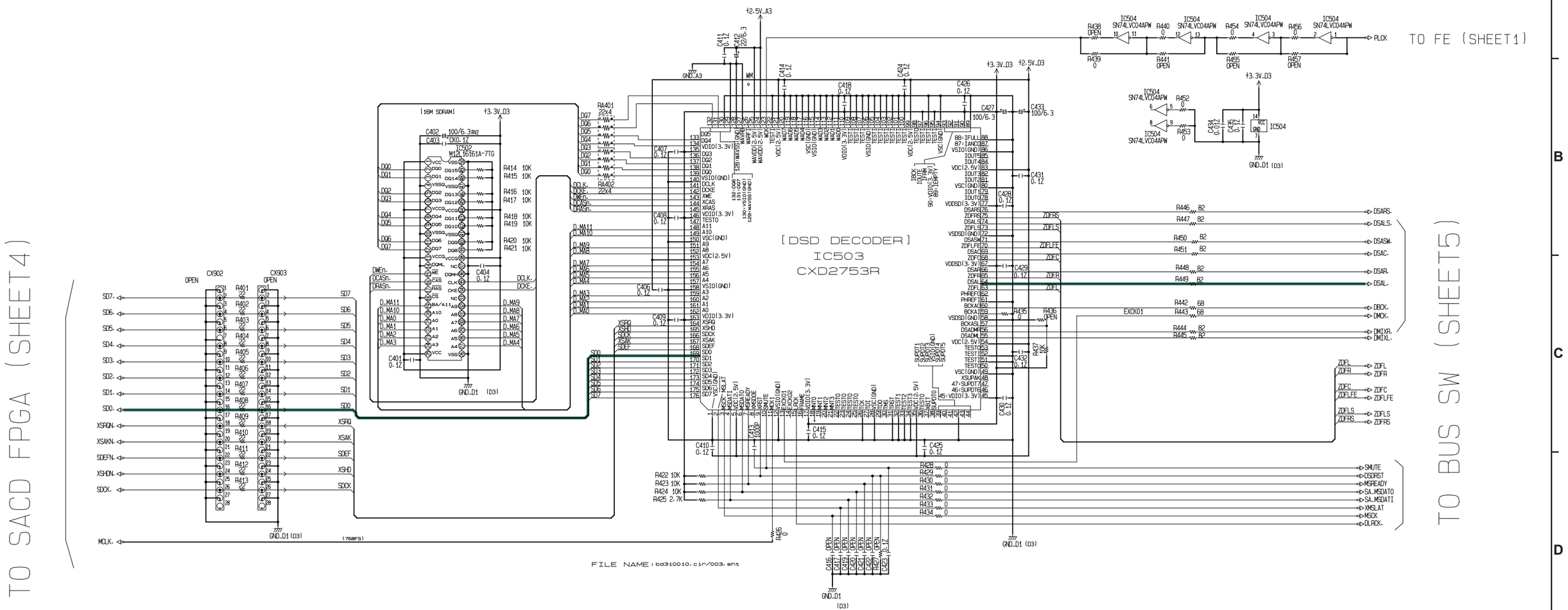
DO NOT return the unit to the customer until the problem is located and corrected.

NOTICE:

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM
M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD.
P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.


IC100
R8J32801AFPV
8U-310010-1
FE BLOCK (1/6)
BD DATA OUTPUT SIGNAL LINE
SACD/DVD/CD DATA OUTPUT SIGNAL LINE
BD/SACD/DVD/CD DATA OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (1/44)
8U-310010-1 FE/SACD UNIT (1/6)
FE BLOCK
UD9004
FILE NAME : bd310010.cir/001.sht
To Loader & SENSOR
To CHACKING & SW
TO sheet 002 (A4)
TO sheet 02(A6)
(TO SHEET4)


TO sheet001(A7)
TO sheet 001(A11)
+3.3V_D1
+1.8V_D1
RXP
RXN
TXN
TXP
RESET
CX052
OPEN
GND
VCC
GND
UAI
UAO
R301 0
R302 0
C308 0.01Z
FB301 0
C328 OPEN
C309 0.01
C310 0.01
C311 0.01Z
C312 0.01
R320 12K
C313 0.01
R322 220K
C316 12P
X301 25M
C315 0.01Z
R323 100
C317 12P
R325 1M
GND_D1 (A1)
C318 0.1Z
C319 0.01Z
C320 0.01Z
C324 0.1Z
C325 0.1Z
FB302 0
C327 OPEN
C301 100/6.3
C303 0.1Z
C304 0.01Z
C305 0.01Z
C302 100/6.3
C306 0.01Z
C307 0.01Z
R303 OPEN
LD201 OPEN
TR301 OPEN
R307 OPEN
R308 OPEN
UAI
UAO
R313 4.7K
IC305
BU19502KV-SE2
CSEL.
DASPn.
/CS1N. R305 82
/CSON. R306 82
PDIAGn. R304 0
MSSEL
DASPn
SSCEN
CLKSEL0
CLKSEL1
FXDMA
PMEN
PHYRDY
VCCK
DGND
UAI
VCCO
UAO
PDIAGn
CS1n
CS0n
TXP
TXN
AGND
AVDDL
RXN
RXP
REXT
AGND
AVDDH
XTALO
XTALI
ATAIDEN
MODE2
MODE1
MODE0
PORn
RESETn
DD7
DD8
DD6
DD9
DD5
DD10
VCCK
DGND
DD4
DD11
DD3
VCCO
DD12
DD2
DD13
R335 82
R336 33
R337 33
R338 33
R339 33
R340 33
R341 33
R342 33
R343 33
R344 33
R345 33
R346 33
R347 33
C322 0.01Z
C323 0.01Z
DD7.
DD8.
DD6.
DD9.
DD5.
DD10.
DD4.
DD11.
DD3.
DD12.
DD2.
DD13.
DA2
DA0
DA1
SP
INTRQ
DMACKn
IORDY
VCCK
DGND
DIOPn
DIOWn
DMARQ
DD15
DD0
DD14
DD1
R315 82
R316 82
R317 82
R318 22
R319 82
R321 22
R324 82
R326 82
R327 22
R329 33
R331 33
R333 33
R334 33
DA2.
DA0.
DA1.
INTRQ.
/DMACK.
IORDY.
/IOR.
/IOW.
DMARQ.
DD15.
DD0.
DD14.
DD1.
C314 0.1Z
C321 0.01Z
C326 0.1Z
GND_D1
CX403
OPEN
RESTn
GND
DD7
DD8
DD6
DD9
DD5
DD10
DD4
DD11
DD3
DD12
DD2
DD13
DD1
DD14
DD0
DD15
GND
DMARQ
GND
/IOW
GND
/IOR
GND
IORDY
CSEL
/DMACK
GND
INTRQ
DA1
PDIAGn
DA0
DA2
/CSON
/CS1N
DASPn
GND
R348 0 RESET_n
R349 0 DD8
R350 0 DD9
R351 0 DD10
R352 0 DD11
R353 0 DD12
R354 0 DD13
R355 0 DD14
R356 0 DD15
R357 0 DD7
R358 0 DD6
R359 0 DD5
R360 0 DD4
R361 0 DD3
R362 0 DD2
R363 0 DD1
R364 0 DD0
R365 0 DMARQ
R366 0 /IOW
R367 0 /IOR
R368 0 IORDY
R369 0 /DMACK
R370 0 INTRQ
R371 0 DA1
R372 0 DA0
R373 0 /CSON
R374 0 DA2
R375 0 /CS1N
TO BUS SW (SHEET5)
8U-310010-1
SATA-ATAPI BLOCK (2/6)
FILE NAME : bd310010.cir/002.sht
BD/SACD/DVD/CD PLAY DATA OUTPUT SIGNAL LINE
BD/SACD/DVD/CD CONTROL DATA OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (2/44)
8U-310010-1 FE/SACD UNIT (2/6)
SATA-ATAPI BLOCK
UD9004



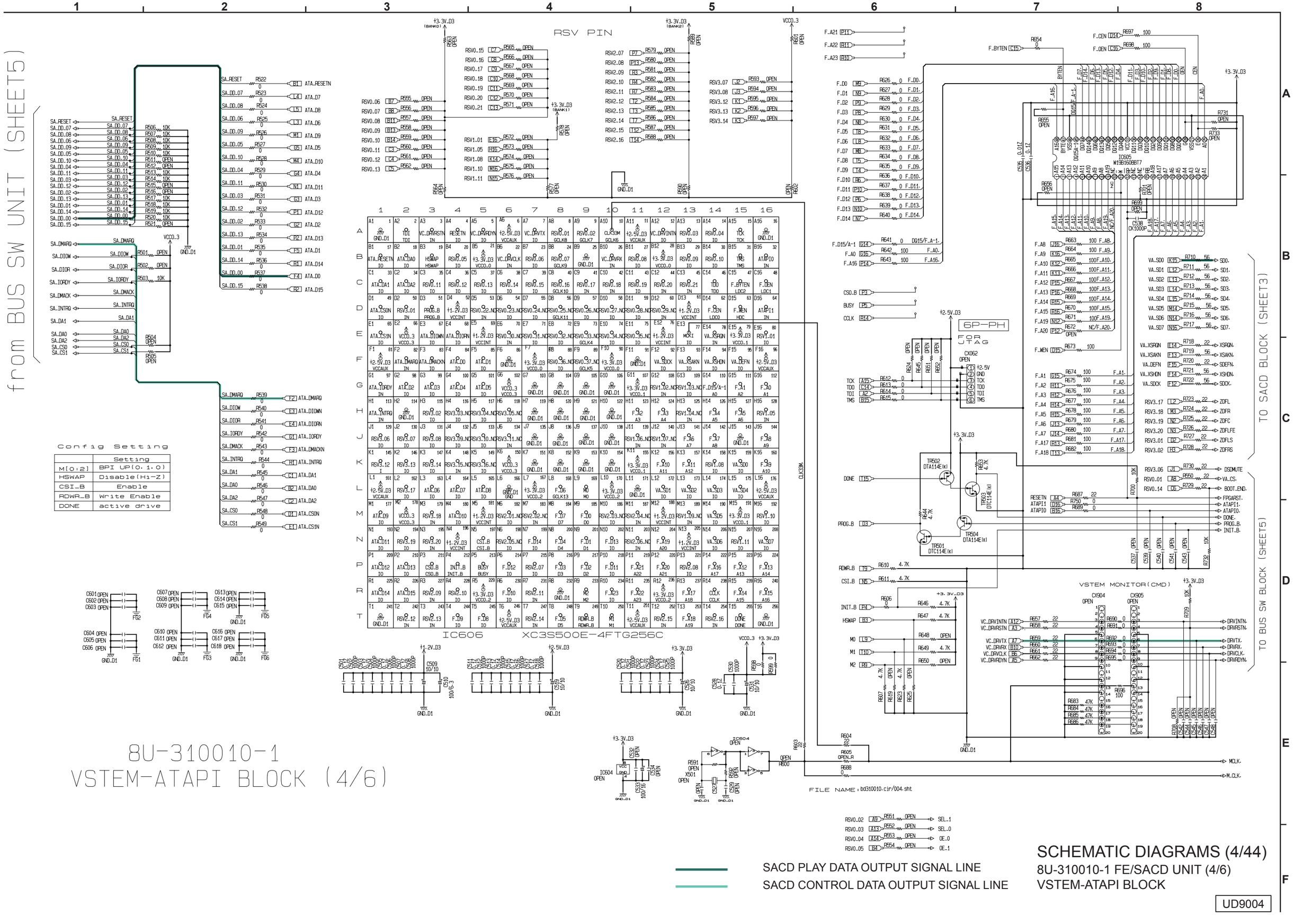
8U-310010-1
SACD DECODE BLOCK (3/6)

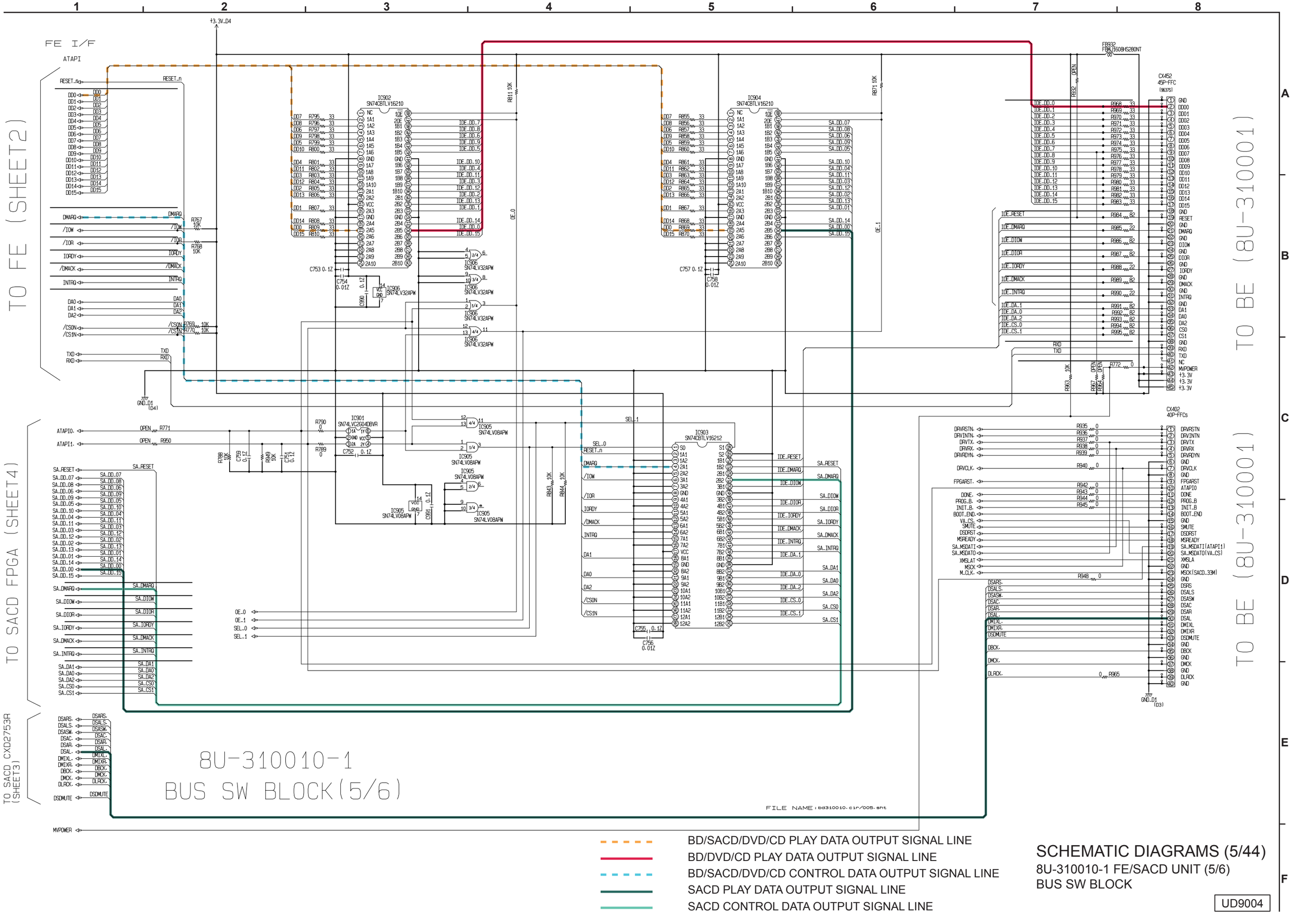
SACD PLAY DATA OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (3/44)

8U-310010-1 FE/SACD UNIT (3/6)
SACD DECODE BLOCK

UD9004


from BUS SW UNIT (SHEET5)
RSV PIN
IC606 XC3S500E-4FTG256C
TO SACD BLOCK (SHEET3)
TO BUS SW BLOCK (SHEET5)
VSTEM MONITOR(CMD)
6P-PH FOR JTAG
IC605 M13B1608BT7
Config Setting
Setting
M[0:2] BPI UP(0.1.0)
HSWAP Disable(Hi-Z)
CSI_B Enable
RDWR_B Write Enable
DONE active drive
8U-310010-1
VSTEM-ATAPI BLOCK (4/6)
FILE NAME : bd310010-cir/004.sht
SACD PLAY DATA OUTPUT SIGNAL LINE
SACD CONTROL DATA OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (4/44)
8U-310010-1 FE/SACD UNIT (4/6)
VSTEM-ATAPI BLOCK
UD9004


FE I/F
ATAPI
TO FE (SHEET2)
TO SACD FPGA (SHEET4)
TO SACD CXD2753R (SHEET3)
TO BE (8U-310001)
IC902 SN74CBTLV16210
IC904 SN74CBTLV16210
IC903 SN74CBTLV16212
IC905 SN74LV32APW
IC905 SN74LV08APW
IC901 SN74LVC2G04DBVR
FB932 FPM1T60BH5280NT
CX452 45P-FFC
CX402 40P-FFCs
8U-310010-1
BUS SW BLOCK(5/6)
FILE NAME:bd310010.cir/005.sht
BD/SACD/DVD/CD PLAY DATA OUTPUT SIGNAL LINE
BD/DVD/CD PLAY DATA OUTPUT SIGNAL LINE
BD/SACD/DVD/CD CONTROL DATA OUTPUT SIGNAL LINE
SACD PLAY DATA OUTPUT SIGNAL LINE
SACD CONTROL DATA OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (5/44)
8U-310010-1 FE/SACD UNIT (5/6)
BUS SW BLOCK
UD9004

8U-310010-1
POWER BLOCK(6/6)

PU

MOTOR

DSP

SATA

SACD

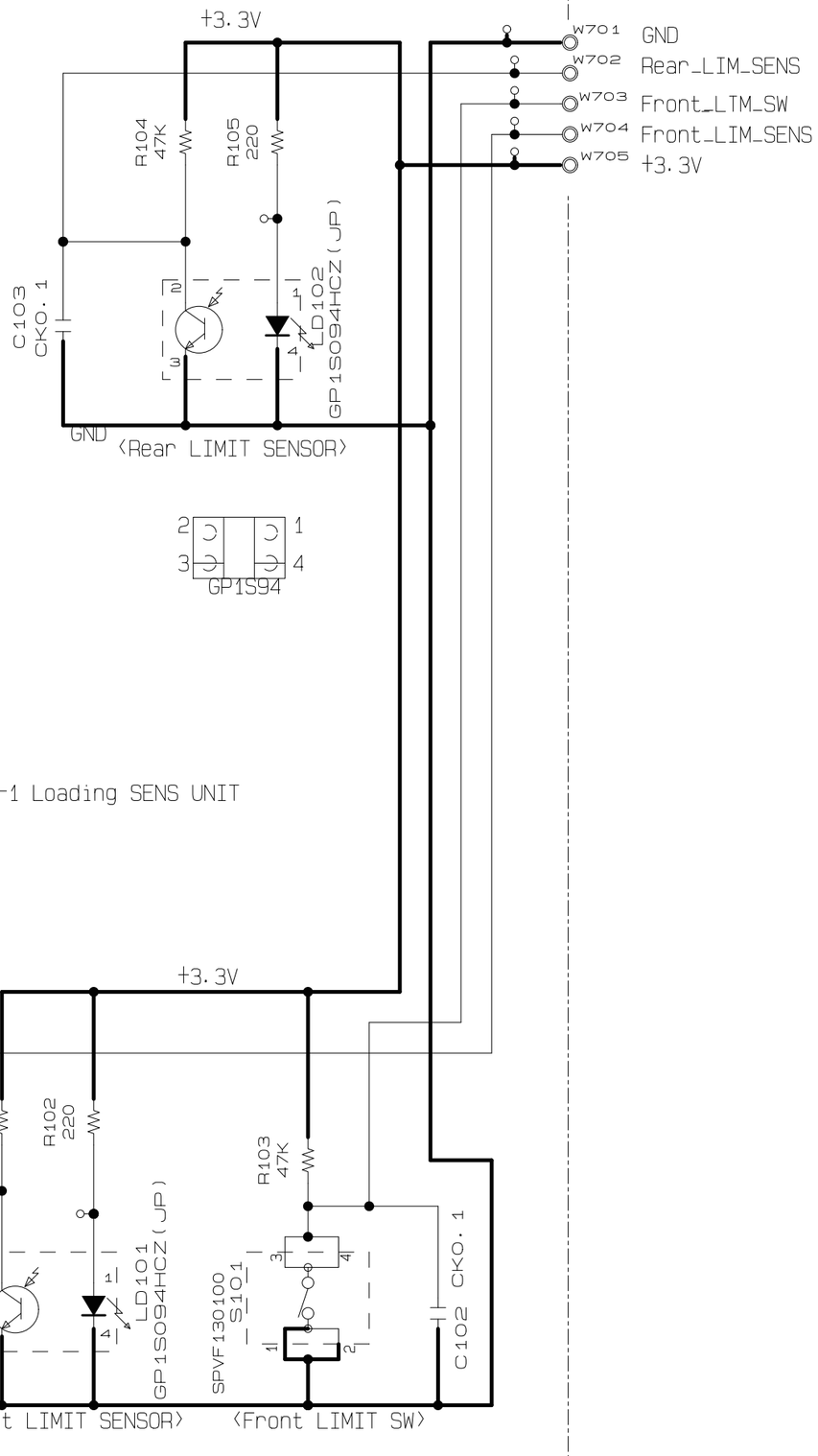
BusSW

MVPOWER
+5V_P1
+8V_P1
+12V_M1
+5V_M1
RESET
+3.3V_D1
+3.3V_A1
+1.5V_D1
+1.5V_A1
+5V_A1
+1.8V_D1
+1.2V_D3
+2.5V_D3
+2.5V_A3
+3.3V_D3
+3.3V_D4
+3.3V_D
+12V
+6V
+5V
+1.2V
+2.5V
+1.8V
+3.3V
+1.5V
FB910 FBMJ1608HS280NT
FB914 FBMJ1608HS280NT
FB919 FBMJ1608HS280NT
FB917 FBMJ1608HS280NT
FB918 FBMJ1608HS280NT
FB937 FBMJ1608HS280NT
FB933 0
FB934 0
FB915 FBMJ1608HS280NT
FB916 FBMJ1608HS280NT
FB906 FBMJ1608HS280NT
FB907 FBMJ1608HS280NT
FB905 FBMJ1608HS280NT
FB904 FBMJ1608HS280NT
FB935 0
FB936 0
FB911 FBMJ1608HS280NT
FB901 FBMJ1608HS280NT
FB908 FBMJ1608HS280NT
FB912 FBMJ1608HS280NT
FB913 FBMJ1608HS280NT
FB902 FBMJ1608HS280NT
FB903 OPEN
D906 1SS355
D911 1SS355
D905 1SS154
D907 1SS355
D908 1SS355
D904 1SS154
D903 1SS154
D910 1SS355
D901 1SS355
D902 1SS355
D909 1SS355
D912 1SS355
IC304 MM1825YHBE
IC907 BA50DD0WHFP
IC303 MM1687CFBE
IC306 MM1665AHBE
IC302 MM1661ZHBE
IC301 BH18MA3WHFV
IC603 BA00HC5FP
IC602 BA25BC0FP
IC961 BA33DD0WHFP
L901 OPEN
RR917 0
RR908 10K
RR905 1K
RR906 1K
RR907 1K (1%)
RR913 0
RR914 0
RR915 0
RR916 0
RR922 0
RR923 0
RR924 0
RR925 0
RR926 0
CX063 6P-VHs
GND_D1
GND_D1 (D4)
GND_D1 (M1)
GND_D1 (A1)
GND_D1 (D3)
GND_A3
FILE NAME : bd310010.cir/006.sht

SCHEMATIC DIAGRAMS (6/44)

8U-310010-1 FE/SACD UNIT (6/6)
POWER BLOCK

UD9004

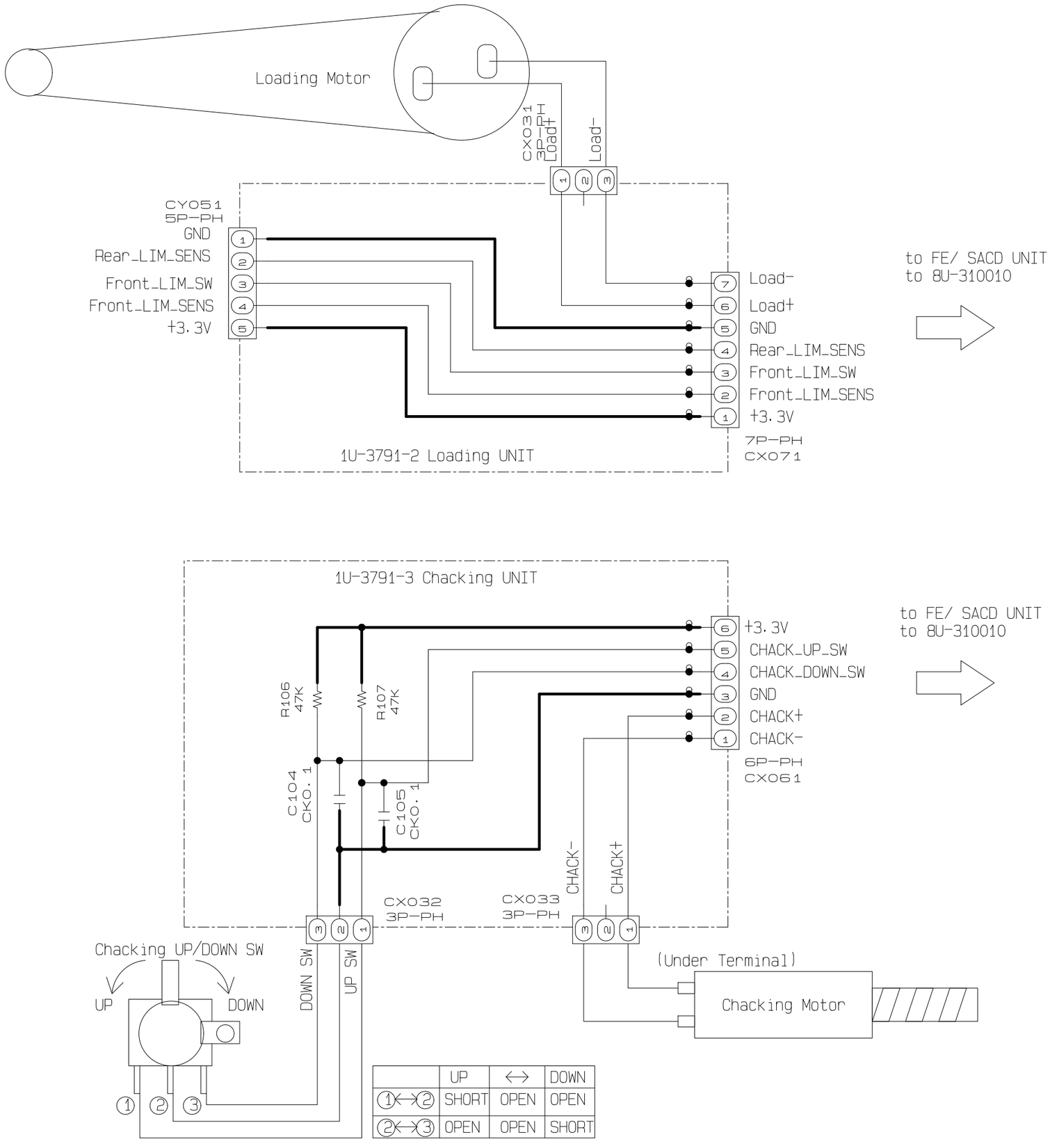


FILE NAME: bd3791.cir/001.sht

SCHEMATIC DIAGRAMS (7/44)

1U-3791-1 Loading SENS UNIT

UD9004

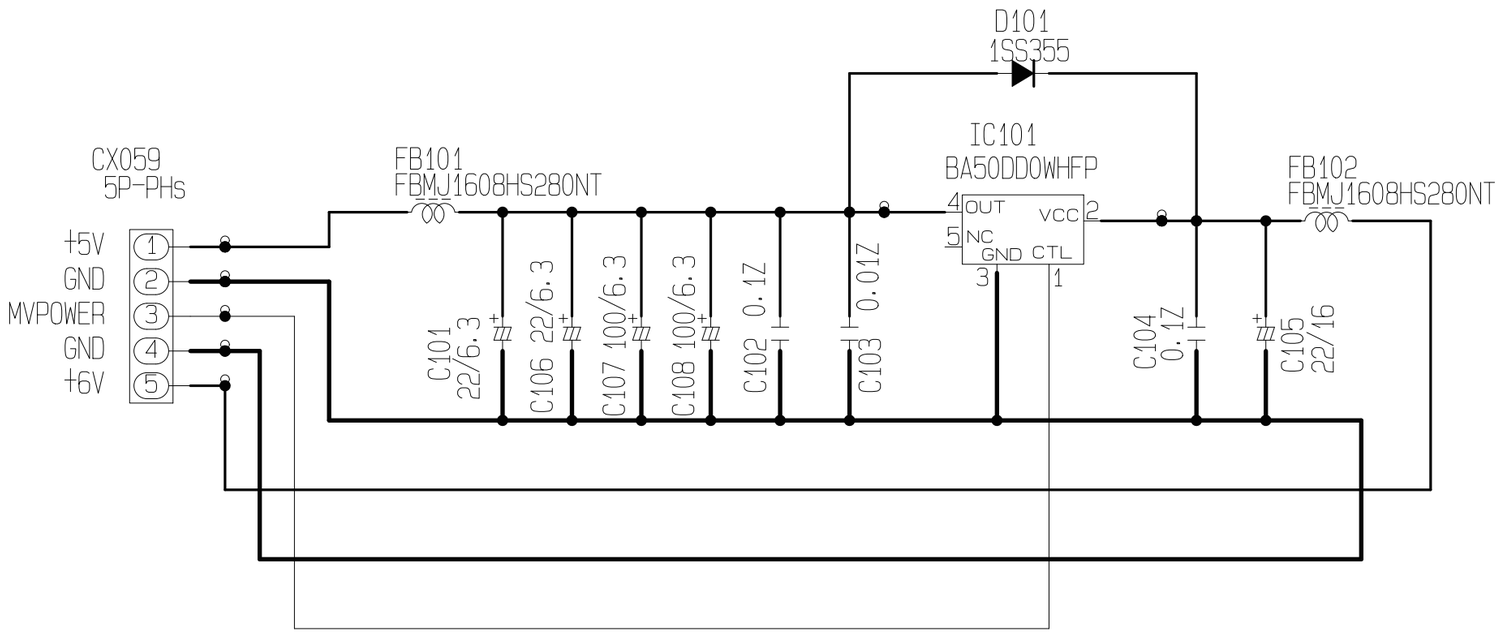


FILE NAME : bd3791.cir/002.sht

SCHEMATIC DIAGRAMS (8/44)

1U-3791-2 Loading UNIT
1U-3791-3 Chacking UNIT

UD9004

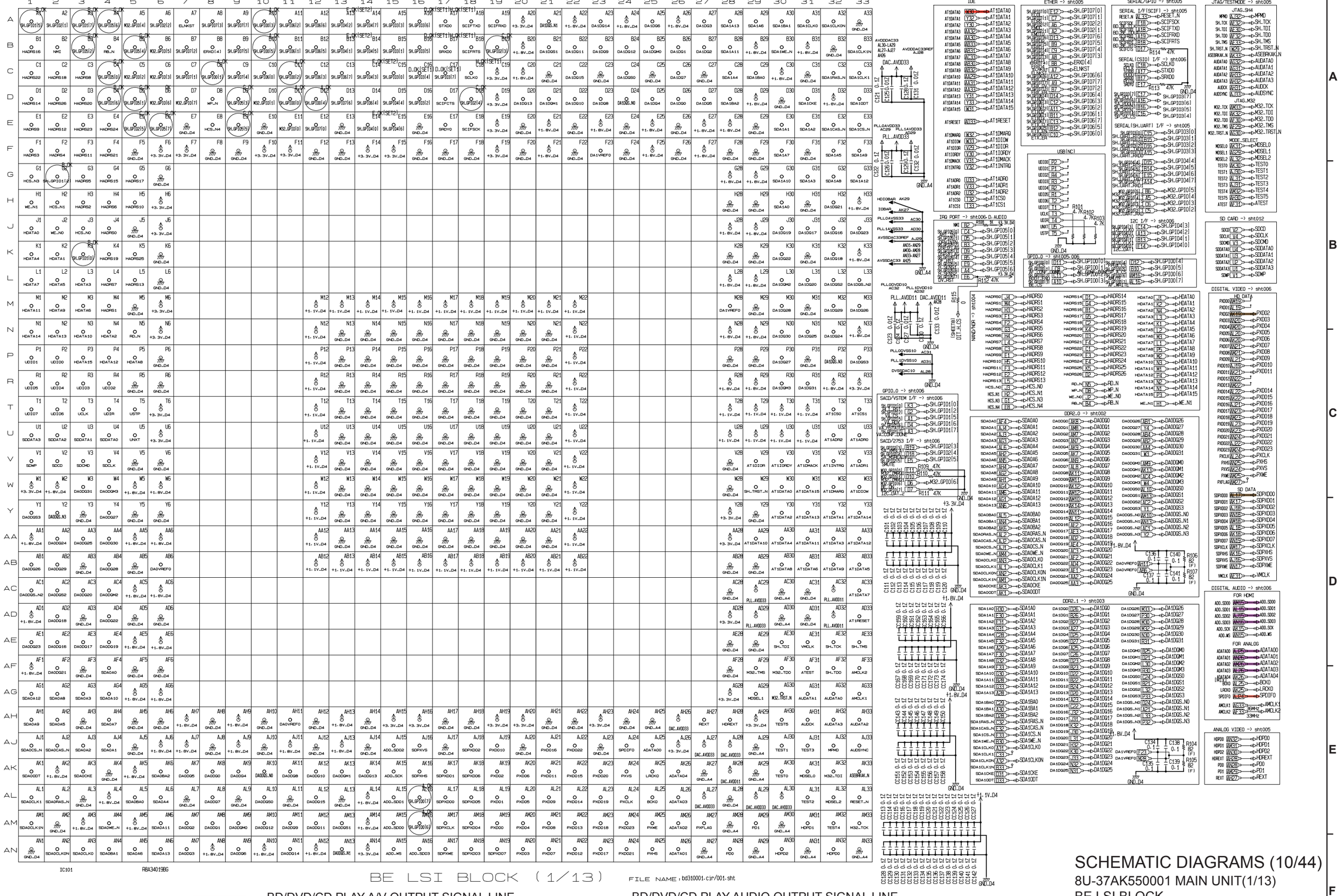


FILE NAME : bd210075.cir/001.sht

SCHEMATIC DIAGRAMS (9/44)

8U-210075 FE REG UNIT

UD9004



BE LSI BLOCK (1/13)

FILE NAME : bd310001.cir/001.sht

BD/DVD/CD PLAY A/V OUTPUT SIGNAL LINE

BD/DVD/CD PLAY AUDIO OUTPUT SIGNAL LINE

BD/DVD PLAY VIDEO OUTPUT SIGNAL LINE

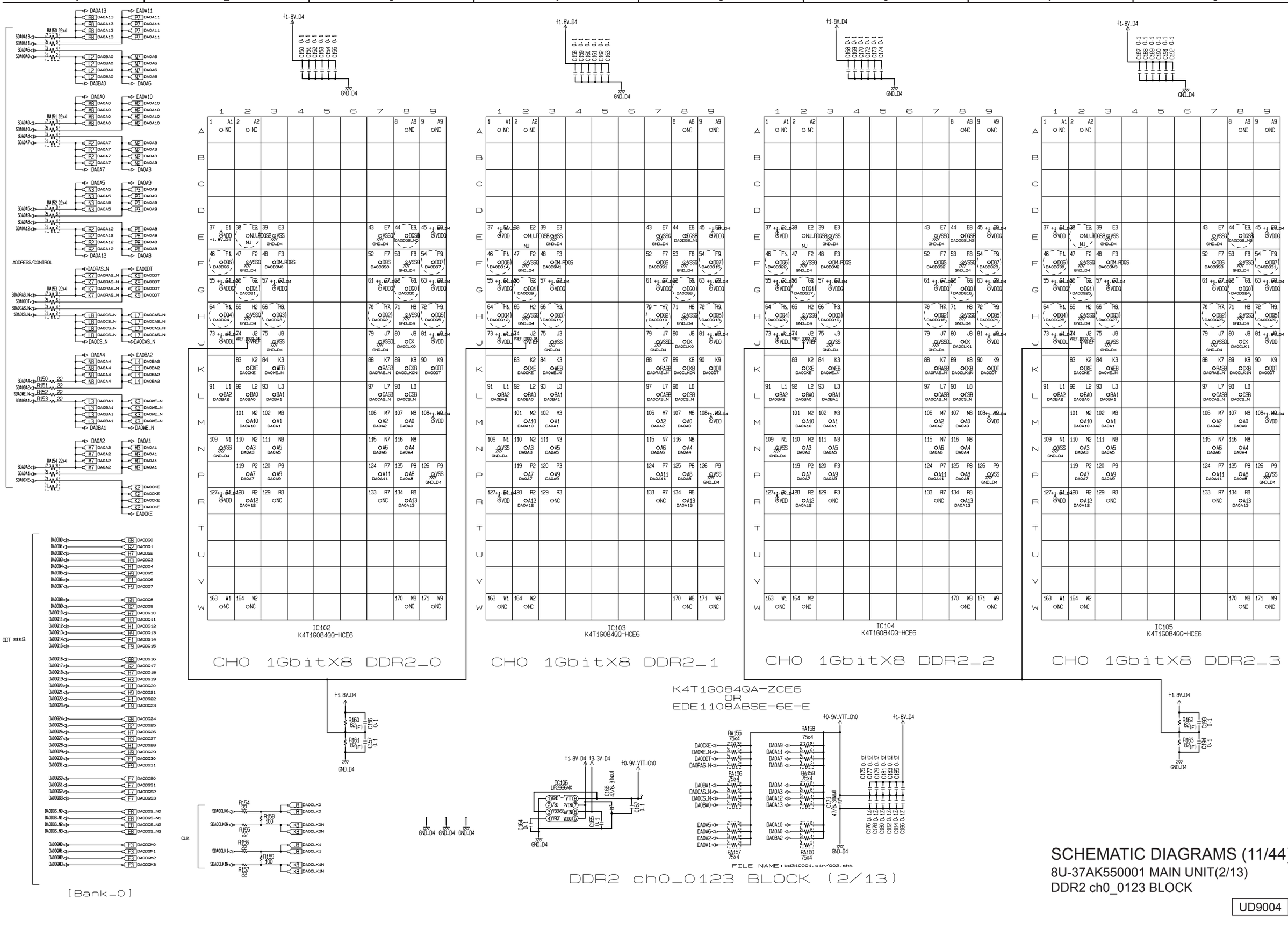
BD/DVD/CD PLAY SPDIF OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (10/44)

8U-37AK550001 MAIN UNIT(1/13)

BE LSI BLOCK

UD9004

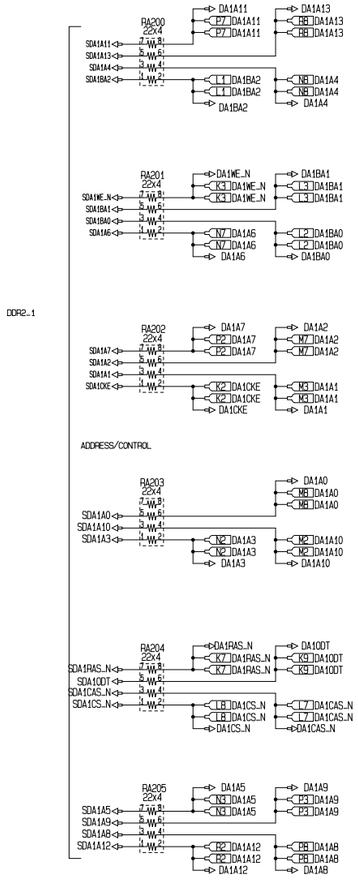


SCHEMATIC DIAGRAMS (11/44)

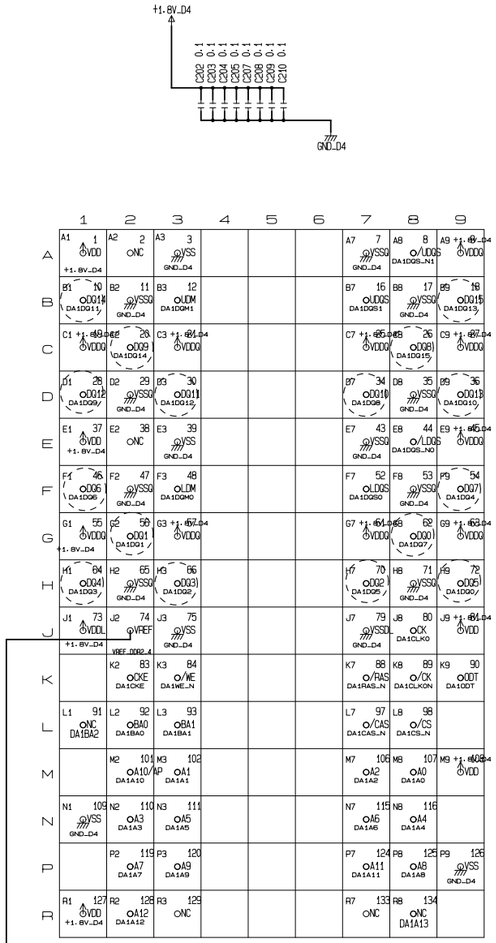
8U-37AK550001 MAIN UNIT(2/13)

DDR2 ch0_0123 BLOCK

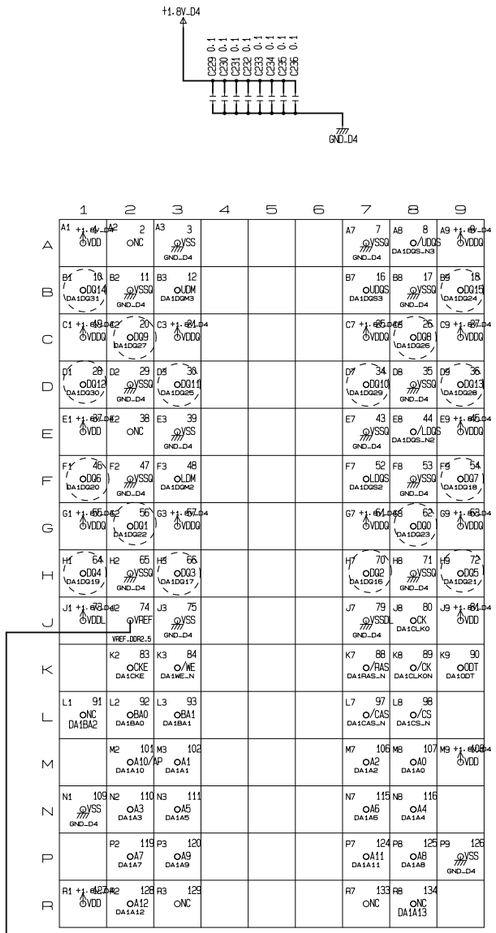
UD9004



FILE NAME : bd310001.cir/003.sht

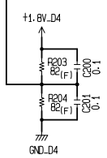


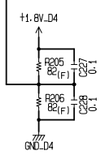
CH1 512MbitX16 DDR2_4

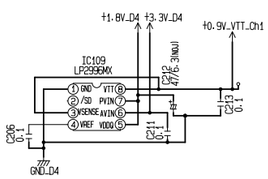


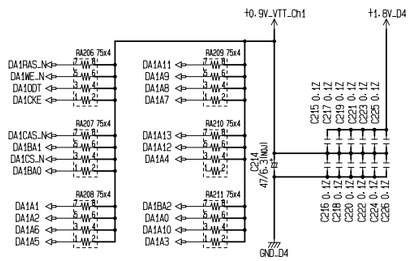
CH1 512MbitX16 DDR2_5

K4T51163QE-ZCE6
OR
EDE5116AHSE-6E-E









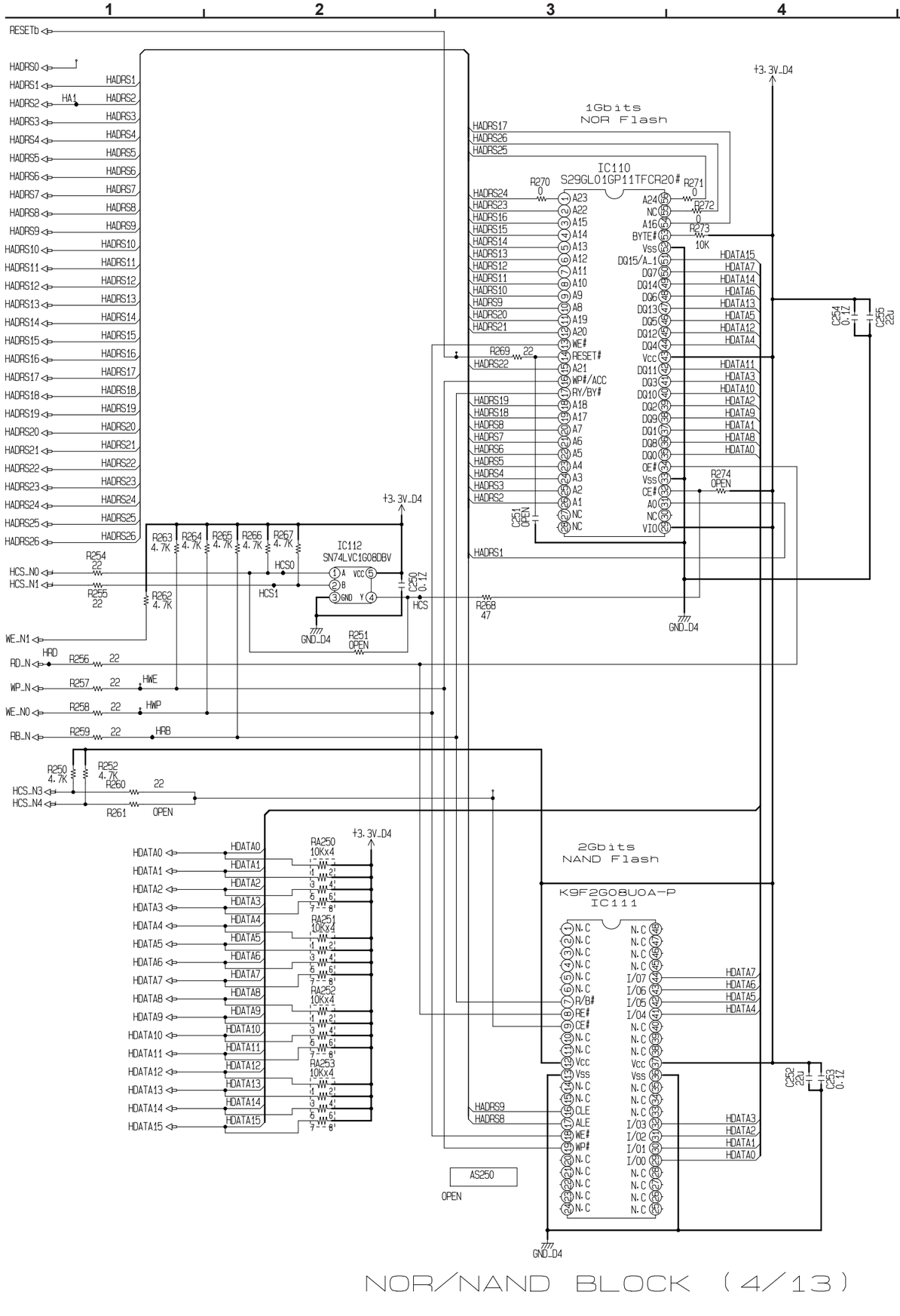
DDR2 ch1_45 BLOCK (3/13)

SCHEMATIC DIAGRAMS (12/44)

8U-37AK550001 MAIN UNIT(3/13)

DDR2 ch1_45 BLOCK

UD9004



NOR/NAND BLOCK (4/13)

EBI	NAND
EBI_ADDR25	-
EBI_ADDR24	NAND_A-B
EBI_ADDR15	-
EBI_ADDR14	-
EBI_ADDR13	-
EBI_ADDR12	-
EBI_ADDR11	-
EBI_ADDR10	-
EBI_ADDR9	-
EBI_ADDR8	-
EBI_ADDR7	-
EBI_ADDR6	-
EBI_ADDR5	-
EBI_ADDR4	-
EBI_ADDR3	-
EBI_ADDR2	-
EBI_ADDR1	-
EBI_ADDR0	-
EBI_DATA15	-
EBI_DATA14	-
EBI_DATA13	-
EBI_DATA12	-
EBI_DATA11	-
EBI_DATA10	-
EBI_DATA9	-
EBI_DATA8	-
EBI_DATA7	NAND_I/07
EBI_DATA6	NAND_I/06
EBI_DATA5	NAND_I/05
EBI_DATA4	NAND_I/04
EBI_DATA3	NAND_I/03
EBI_DATA2	NAND_I/02
EBI_DATA1	NAND_I/01
EBI_DATA0	NAND_I/00
EBI_ADDR19	-
EBI_ADDR18	-
EBI_ADDR17	-
EBI_ADDR16	-
EBI_ADDR20	-
-	-
EBI_TA	-
EBI_ADDR21	-
EBI_ADDR22	-
EBI_ADDR23	-
EBI_TEA	-
-	-
EBI_CS2	-
EBI_CS4	-
-	-
-	-
EBI_CS3	-
EBI_CS5	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
EBI_CS1	NAND_CE1
EBI_CS0	NAND_CE0
EBI_RD	NAND_RE
EBI_WE1	-
EBI_WE0	NAND_WE
EBI_TSIZE1	-
EBI_TSIZE0	-
EBI_TS	NAND_CLE
EBI_TA2	-
EBI_DS	NAND_ALE
EBI_R-W	-

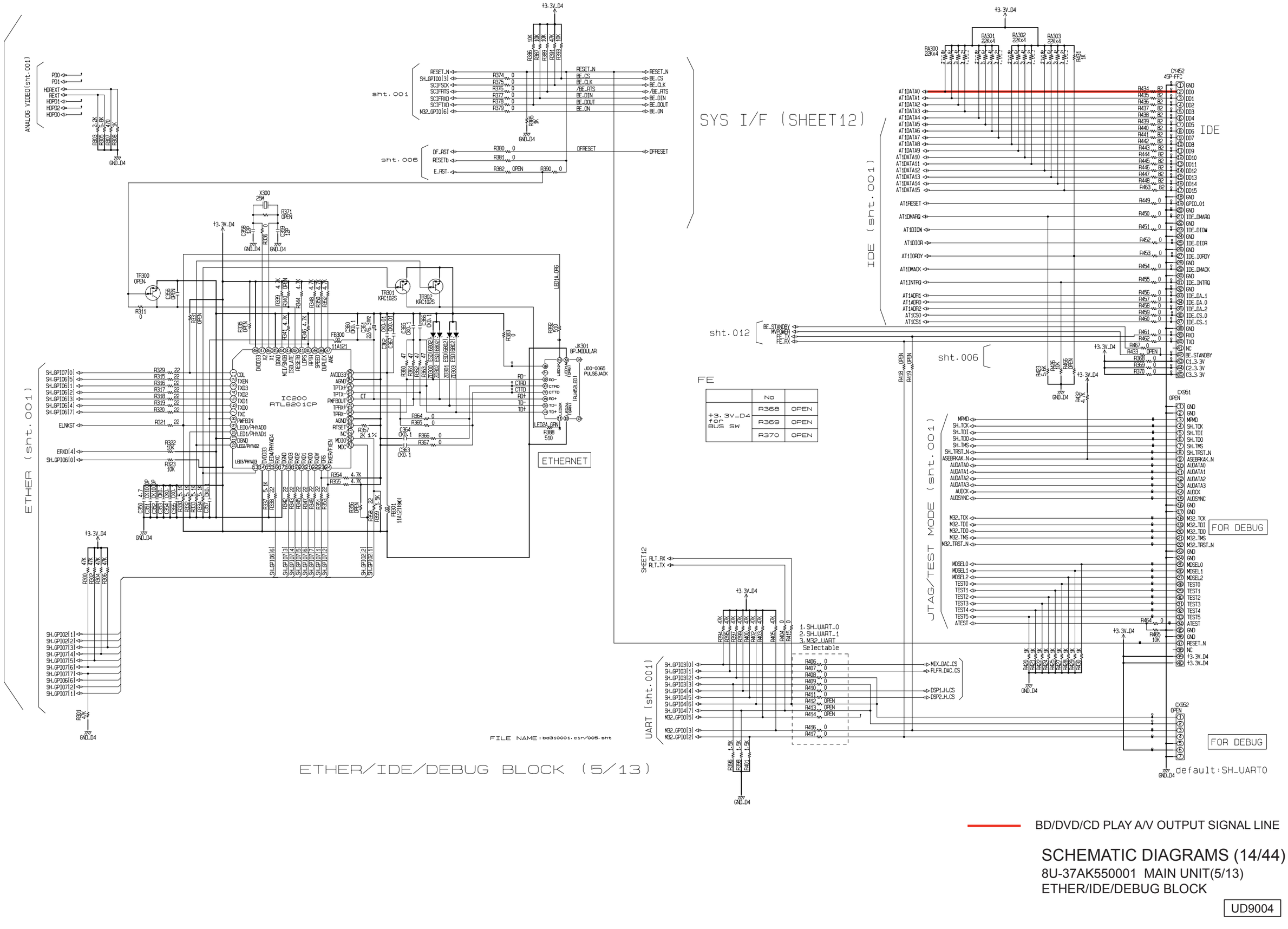
FILE NAME : ba310001.cir/004.snt

SCHEMATIC DIAGRAMS (13/44)

8U-37AK550001 MAIN UNIT(4/13)

NOR/NAND BLOCK

UD9004


ANALOG VIDEO(sht.001)
PD0
PD1
HDREXT
REXT
HDPD1
HDPD2
HDPD0
R303 2.2K
R305 6.8K
R307 470
R308 1K
GND_D4
sht.001
RESET_N
SH_GPIO0[3]
SCIFSCK
SCIFRTS
SCIFRXD
SCIFTXD
M32_GPIO[6]
R374 0
R375 0
R376 0
R377 0
R378 0
R379 0
R385 1K
+3.3V_D4
R386 10K
R387 10K
R388 47K
R389 10K
RESET_N
BE_CS
BE_CLK
/BE_RTS
BE_DIN
BE_DOUT
BE_ON
sht.005
DF_RST
RESETb
E_RST.
R380 0
R381 0
R382 OPEN
R390 0
DFRESET
SYS I/F (SHEET12)
IDE (sht.001)
RA300 22Kx4
RA301 22Kx4
RA302 22Kx4
RA303 22Kx4
R431 1K
AT1DATA0
AT1DATA1
AT1DATA2
AT1DATA3
AT1DATA4
AT1DATA5
AT1DATA6
AT1DATA7
AT1DATA8
AT1DATA9
AT1DATA10
AT1DATA11
AT1DATA12
AT1DATA13
AT1DATA14
AT1DATA15
AT1RESET
AT1DMARQ
AT1DIOW
AT1DIOR
AT1IORDY
AT1DMACK
AT1INTRQ
AT1ADR1
AT1ADR0
AT1ADR2
AT1CS0
AT1CS1
CY452
45P-FFC
IDE
GND
DD0
DD1
DD2
DD3
DD4
DD5
DD6
DD7
DD8
DD9
DD10
DD11
DD12
DD13
DD14
DD15
GPIO_01
IDE_DMARQ
IDE_DIOW
IDE_DIOR
IDE_IORDY
IDE_DMACK
IDE_INTRQ
IDE_DA_1
IDE_DA_0
IDE_DA_2
IDE_CS_0
IDE_CS_1
RXD
TXD
NC
BE_STANDBY
C1_3.3V
C2_3.3V
C3_3.3V
sht.012
BE_STANDBY
MVPOWER
FE_1X
FE_4X
sht.006
R418 OPEN
R419 OPEN
R422 4.7K
R423 4.7K
R426 OPEN
R427 4.7K
R428 4.7K
CY951
OPEN
MPMD
SH_TCK
SH_TDI
SH_TDO
SH_TMS
SH_TRST_N
ASEBRKAK_N
AUDATA0
AUDATA1
AUDATA2
AUDATA3
AUDCK
AUDSYNC
JTAG/TEST MODE (sht.001)
M32_TCK
M32_TDI
M32_TDO
M32_TMS
M32_TRST_N
MDSEL0
MDSEL1
MDSEL2
TEST0
TEST1
TEST2
TEST3
TEST4
TEST5
ATEST
FOR DEBUG
R454 0
R465 10K
RESET_N
+3.3V_D4
default:SH_UART0
FE
+3.3V_D4 for BUS SW
R368 OPEN
R369 OPEN
R370 OPEN
to BE
ETHER (sht.001)
X300 25M
R371 OPEN
C358 15P
C359 12P
R336 0
TR300 OPEN
TR301 KRC102S
TR302 KRC102S
R311 0
R331 OPEN
R335 OPEN
R339 4.7K OPEN
R340 4.7K OPEN
R344 4.7K
R345 4.7K
R346 4.7K
R347 4.7K
R348 4.7K
R349 4.7K
C360 0X0.1
C361 1
C362 0X0.01
C363 0X0.1
C364 0X0.1
C365 0X0.1
C366 22PF
FB300 0
11A121
LED1A_ORG
R382 510
R383 0
D300 ESD(6802)
D301 ESD(6802)
D302 ESD(6802)
D303 ESD(6802)
ZD300 ESD(6802)
ZD301 ESD(6802)
ZD302 ESD(6802)
ZD303 ESD(6802)
R360 47
R361 47
R362 47
R363 47
JK301 8P_MODULAR
J00-0065 PULSEJACK
LED1K(ORG)
LED1A(ORG)
LED2K(GRN)
LED2A(GRN)
R388 510
(ALWSELED)
IC200 RTL8201CP
SH_GPIO7[0]
SH_GPIO6[5]
SH_GPIO6[1]
SH_GPIO6[2]
SH_GPIO6[3]
SH_GPIO6[4]
SH_GPIO6[7]
R329 22
R315 22
R316 22
R317 22
R318 22
R319 22
R320 22
COL
TXEN
TXD3
TXD2
TXD1
TXD0
TXC
PWFBIN
LED0/PHYAD0
LED1/PHYAD1
LED2/PHYAD2
LED3/PHYAD3
AVDD33
AGND
TPTX+
TPTX-
PWFBOUT
TPRX+
TPRX-
AGND
RTSET
NC
MDIO
MDC
RD-
CTRD
CTTD
RD+
TD-
TD+
CT
ELNKST
R321 22
ERXD[4]
SH_GPIO6[0]
R322 10K
R323 10K
R357 2K 1%
C364 0X0.1
C363 0X0.1
R364 0
R365 0
R366 0
R367 0
ETHERNET
R354 4.7K
R355 4.7K
C350 4.7
C351 0X0.1
C352 0X0.1
C353 0X0.1
C354 0X0.1
C355 0X0.1
C356 0X0.1
C357 1X0.1
R330 5.1K
R331 5.1K
R332 5.1K
R333 5.1K
R334 5.1K
R337 5.1K
R350 22
R342 22
R343 22
R345 22
R347 22
R349 22
R351 22
R352 22
R353 22
R356 DNP
R358 22
R359 1.5K
R360 22
R361 1.5K
R362 1.5K
R363 1.5K
R364 1.5K
R365 1.5K
R366 1.5K
R367 1.5K
R368 1.5K
R369 1.5K
R370 1.5K
R371 1.5K
R372 1.5K
R373 1.5K
R374 1.5K
R375 1.5K
R376 1.5K
R377 1.5K
R378 1.5K
R379 1.5K
R380 1.5K

to JG-221 BE UNIT(SHEET6)

VIDEO (sht.001)

AUDIO (sht.001)

sht.001

sht.005

SACD (sht.001)

TO DSP (sht.008)

TO DSP (sht.008)

TO DSP (sht.008)

TO DSP (sht.008)

TO B/E (sht.001)

TO SYS.IF (sht.012)

VIDEO I/F

AUDIO I/F

SACD I/F

FILE NAME : bd310001.cir/006.sht

DIGITAL A/V BLOCK (6/13)

BD/DVD PLAY VIDEO OUTPUT SIGNAL LINE

BD/DVD/CD PLAY AUDIO OUTPUT SIGNAL LINE

BD/DVD/CD PLAY SPDIF OUTPUT SIGNAL LINE

HDMI AUDIO OUTPUT SIGNAL LINE

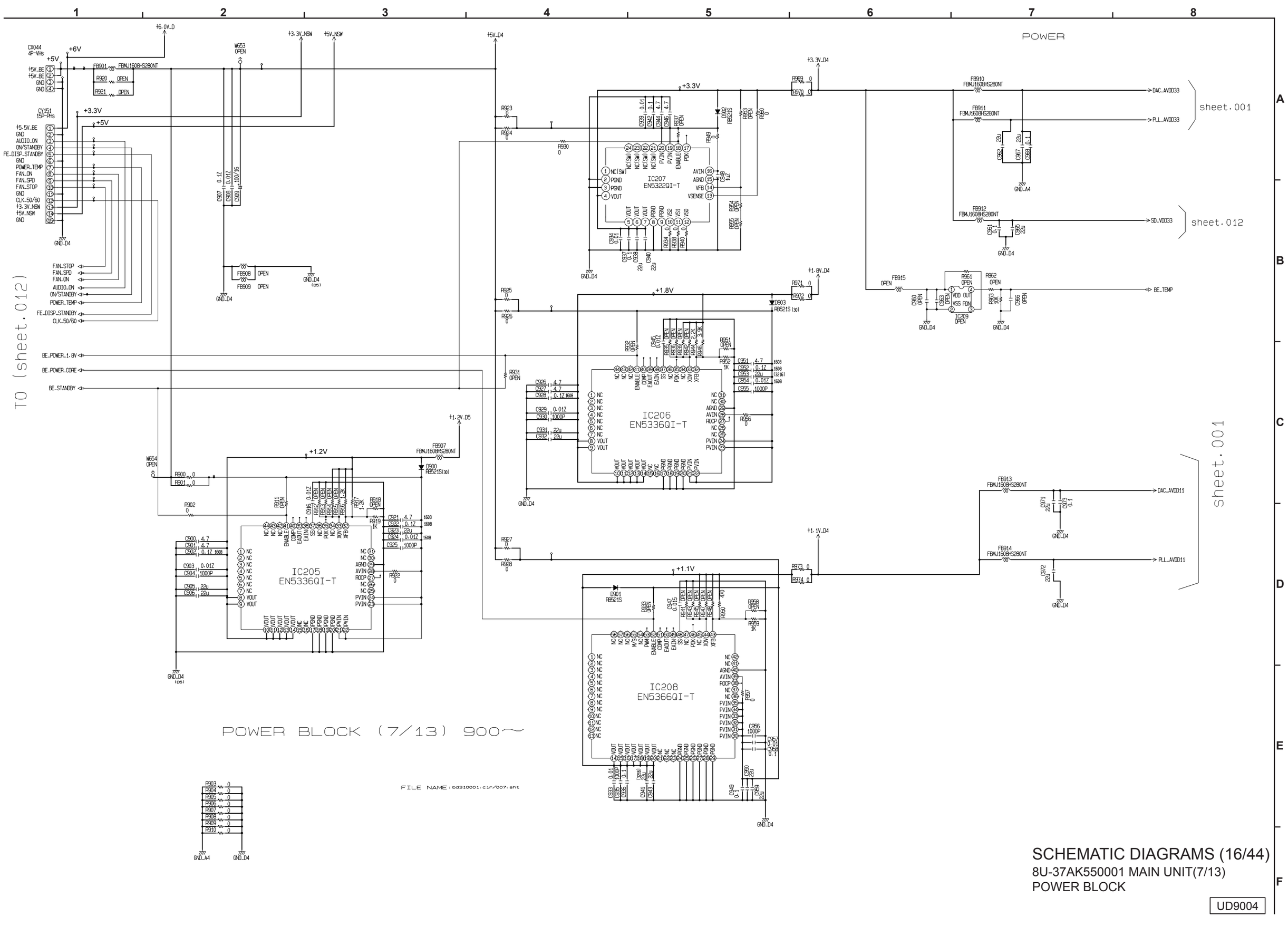
SACD PLAY AUDIO OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (15/44)

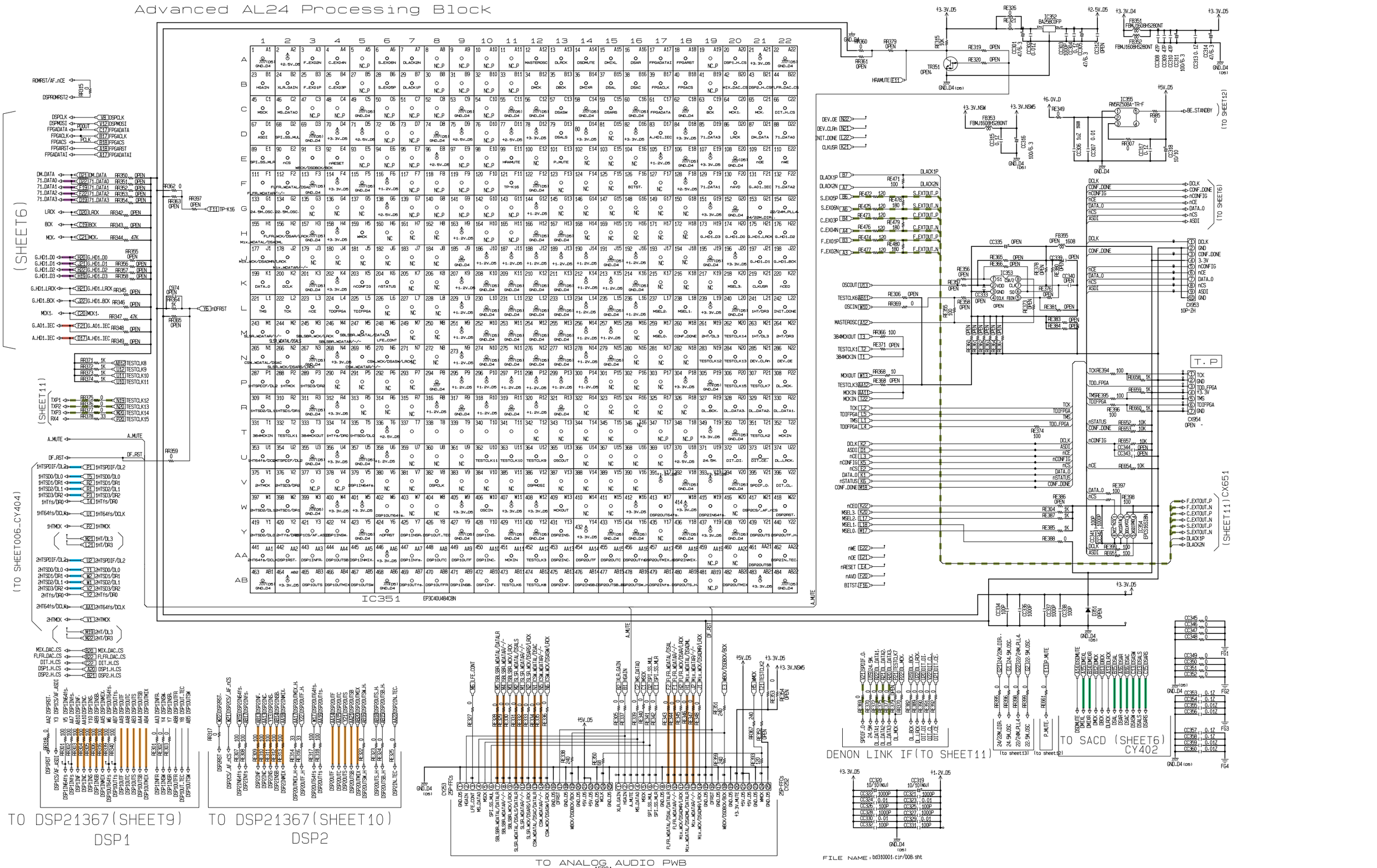
8U-37AK550001 MAIN UNIT(6/13)

DIGITAL A/V BLOCK

UD9004


POWER
TO (sheet.012)
sheet.001
sheet.012
sheet.001
IC207 EN5322QI-T
IC206 EN5336QI-T
IC205 EN5336QI-T
IC208 EN5366QI-T
IC209 OPEN
+6V
+5V
+3.3V
+1.8V
+1.2V
+1.1V
DAC_AVDD33
PLL_AVDD33
SD_VDD33
DAC_AVDD11
PLL_AVDD11
BE_TEMP
BE_POWER_1.8V
BE_POWER_CORE
BE_STANDBY
FAN_STOP
FAN_SPD
FAN_ON
AUDIO_ON
ON/STANDBY
POWER_TEMP
FE_DISP_STANDBY
CLK_50/60
GND_D4
POWER BLOCK (7/13) 900~
FILE NAME:ba310001.cir/007.sht
SCHEMATIC DIAGRAMS (16/44)
8U-37AK550001 MAIN UNIT(7/13)
POWER BLOCK
UD9004

Advanced AL24 Processing Block



SCHEMATIC DIAGRAMS (17/44)

8U-37AK550001 MAIN UNIT(8/13)

ADVANCED AL24 PROCESSING BLOCK

UD9004

BD/DVD/CD PLAY AUDIO OUTPUT SIGNAL LINE

BD/DVD PLAY SPDIF OUTPUT SIGNAL LINE

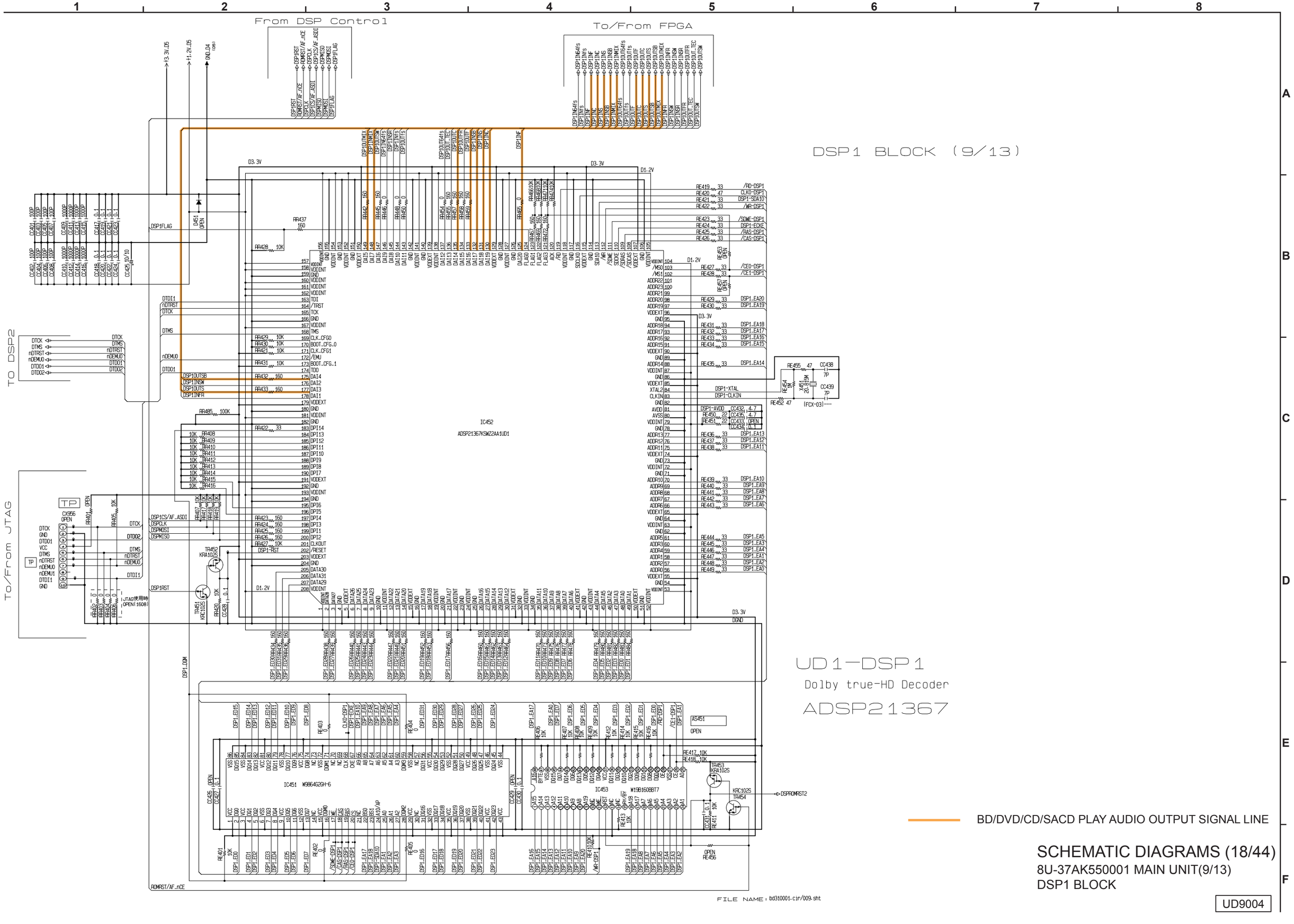
D.LINK OUTPUT SIGNAL LINE

HDMI AUDIO OUTPUT SIGNAL LINE

ANALOG AUDIO OUTPUT SIGNAL LINE

SACD PLAY AUDIO OUTPUT SIGNAL LINE

BD/DVD/CD/SACD PLAY AUDIO OUTPUT SIGNAL LINE



UD1—DSP1

Dolby true-HD Decoder

ADSP21367

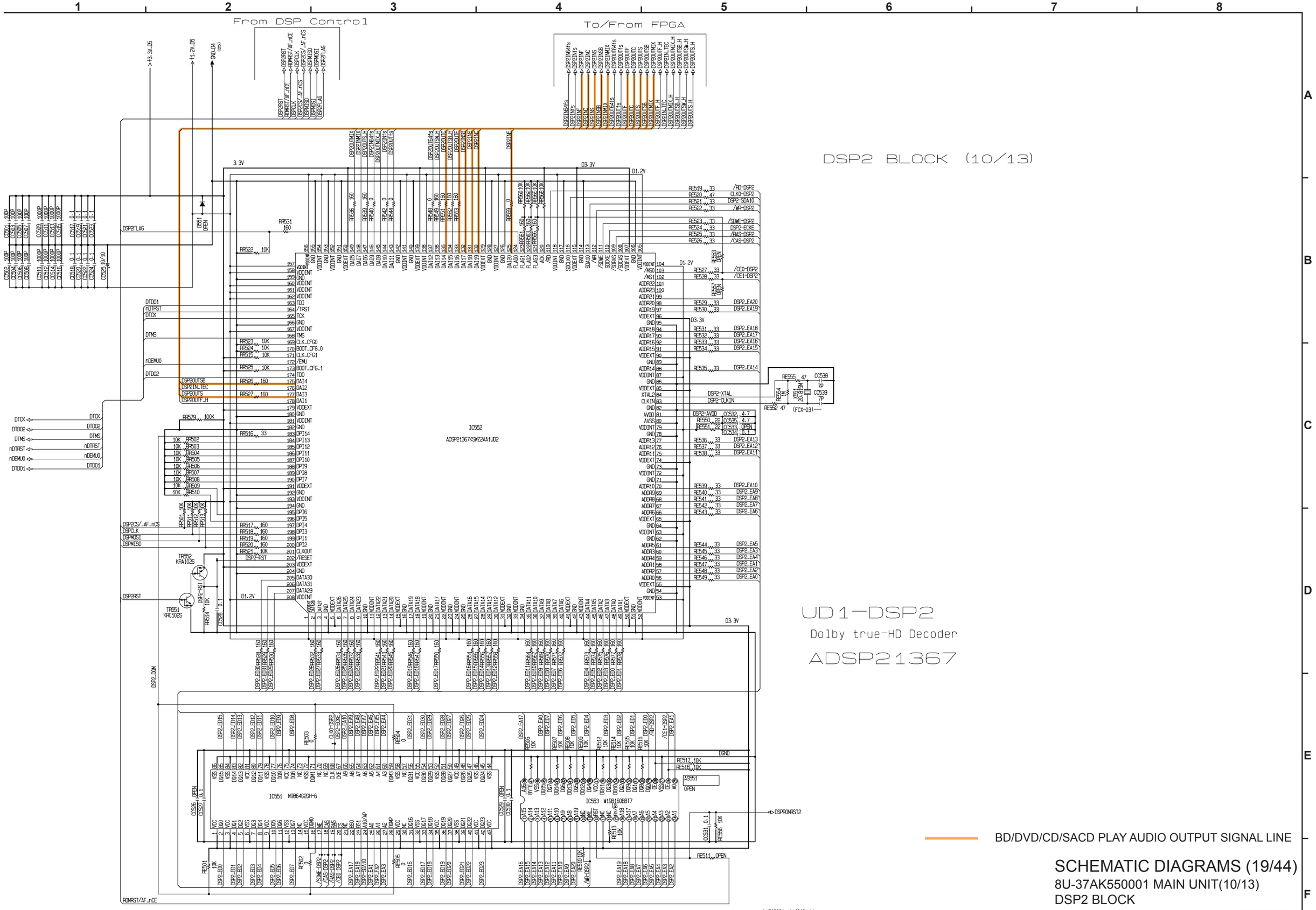
BD/DVD/CD/SACD PLAY AUDIO OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (18/44)

8U-37AK550001 MAIN UNIT(9/13)

DSP1 BLOCK

UD9004



UD1—DSP2

Dolby true-HD Decoder

ADSP21367

BD/DVD/CD/SACD PLAY AUDIO OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (19/44)

8U-37AK550001 MAIN UNIT(10/13)

DSP2 BLOCK

UD9004

DENON LINK I/F (TO SHEET14)

DIGITALOUT UNIT

(SHEET8)

F_EXTOUT_P
F_EXTOUT_N
C_EXTOUT_P
C_EXTOUT_N
S_EXTOUT_P
S_EXTOUT_N
DLACK1P
DLACK2N

SPDIF_0

DIR_ERR
DIR_RST
DIR_CS
DIR_DI
CFLAG
24/22M_DIR
DL_DATA1
DL_DATA2
DL_DATA3
DIT_RST
DL_MCK
DL_BCK
DL_LRCK
DIT_DI
DIT_CL
DIR_CLK
DIR_DO
DIT_CE
24.5M

IC652
LC89057W-VF4A

IC651
AK4101AVQ

X651
24.576M

+5V_D5
+3.3V_D5
GND_D4 (D5)

OPTICAL OUT
IC656
GP1FAV55TK0F
IN
VCC
GND

COAXIAL OUT
JK651
1P-PIN_JACK

TR651
2SC2412K

W651
M3-SIDE

JK652
JACK_1222000

W652
M3-SIDE

TXP1
TXP2
TXP3
RX4

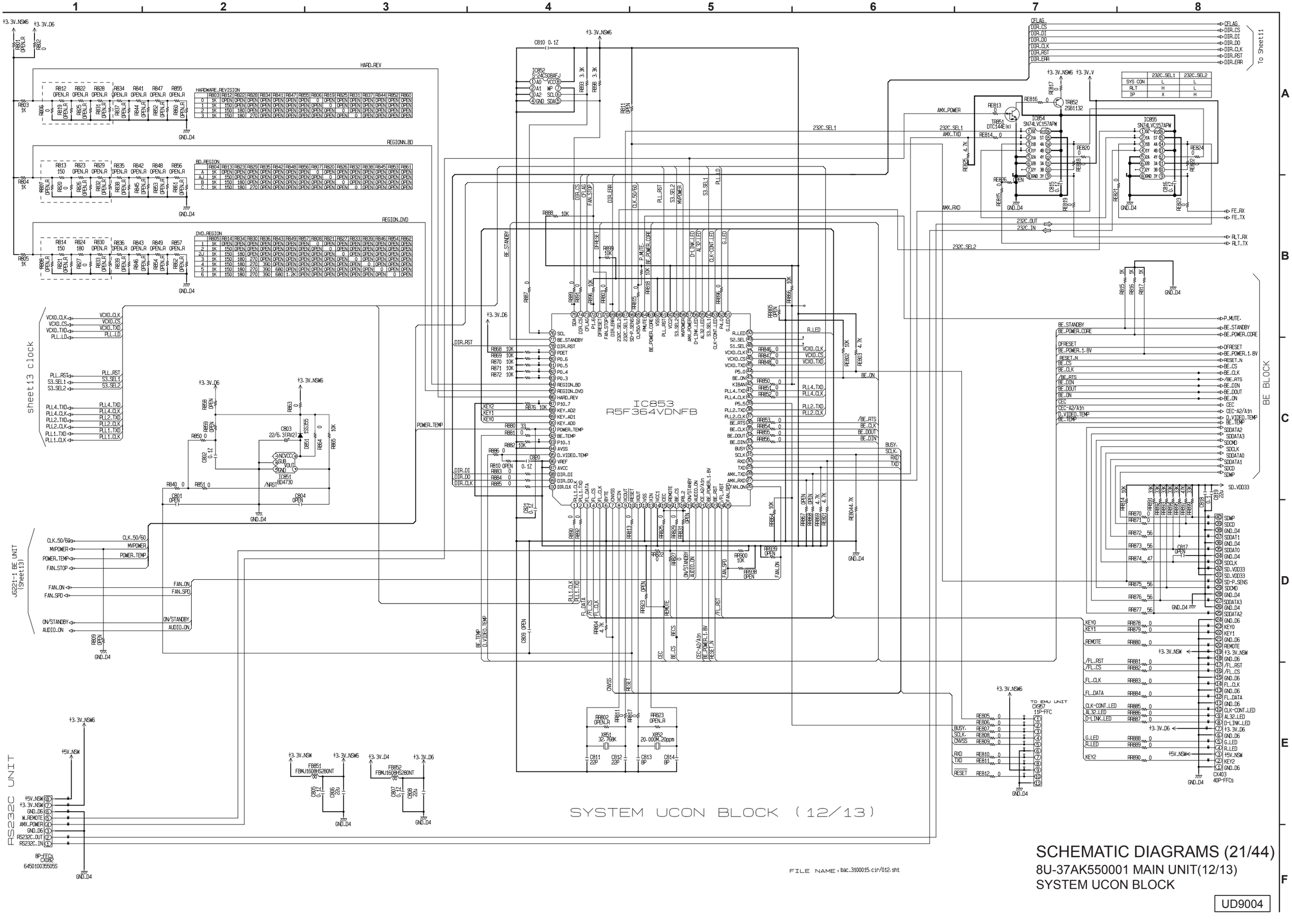
BD/DVD/CD PLAY SPDIF OUTPUT SIGNAL LINE
D.LINK OUTPUT SIGNAL LINE

FILE NAME : bd310001.cir/011.sht

D.Lin(DIT/DIR) BLOCK (11/13)

SCHEMATIC DIAGRAMS (20/44)
8U-37AK550001 MAIN UNIT(11/13)
D.Lin(DIT/DIR) BLOCK

UD9004

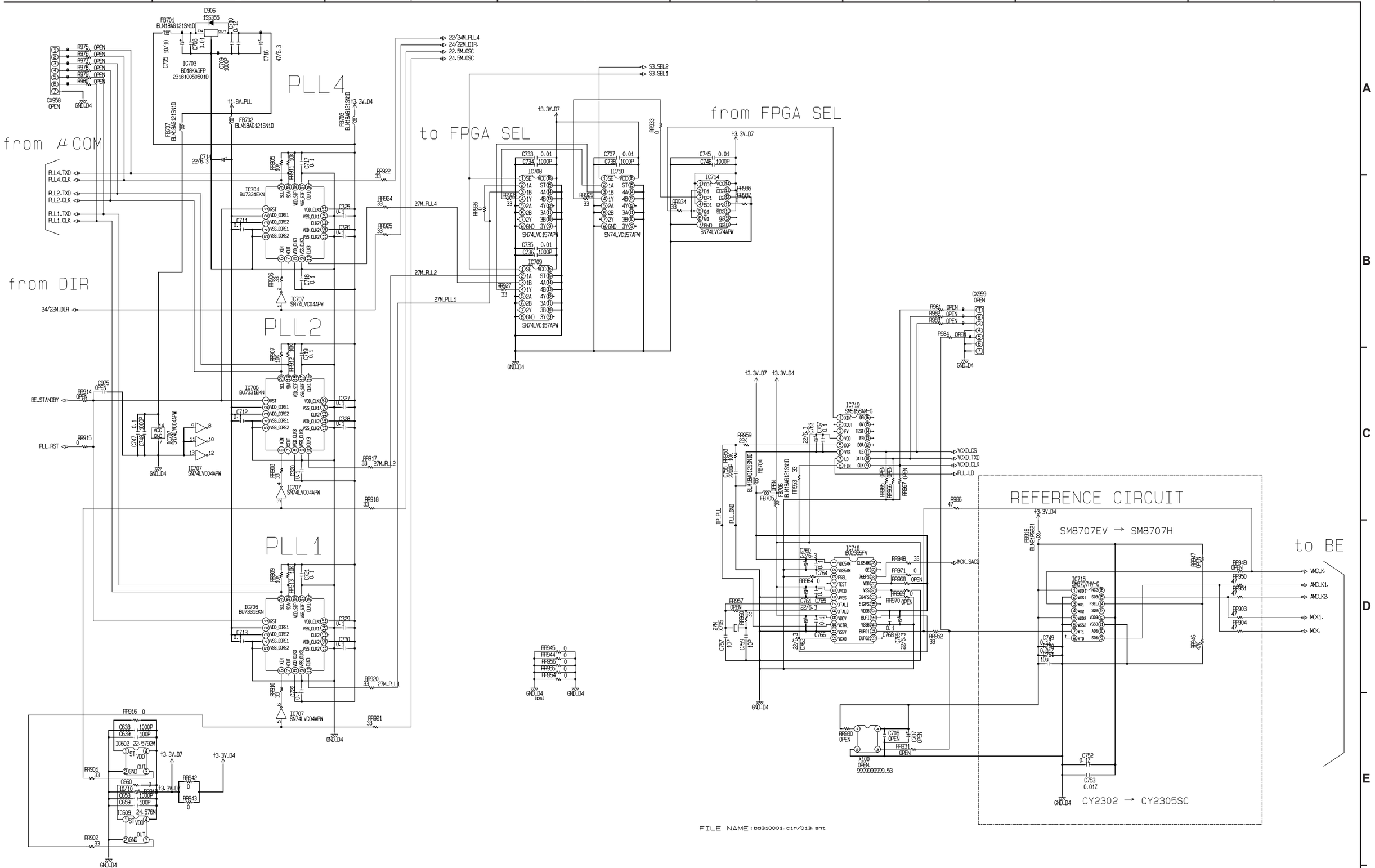


SCHEMATIC DIAGRAMS (21/44)

8U-37AK550001 MAIN UNIT(12/13)

SYSTEM UCON BLOCK

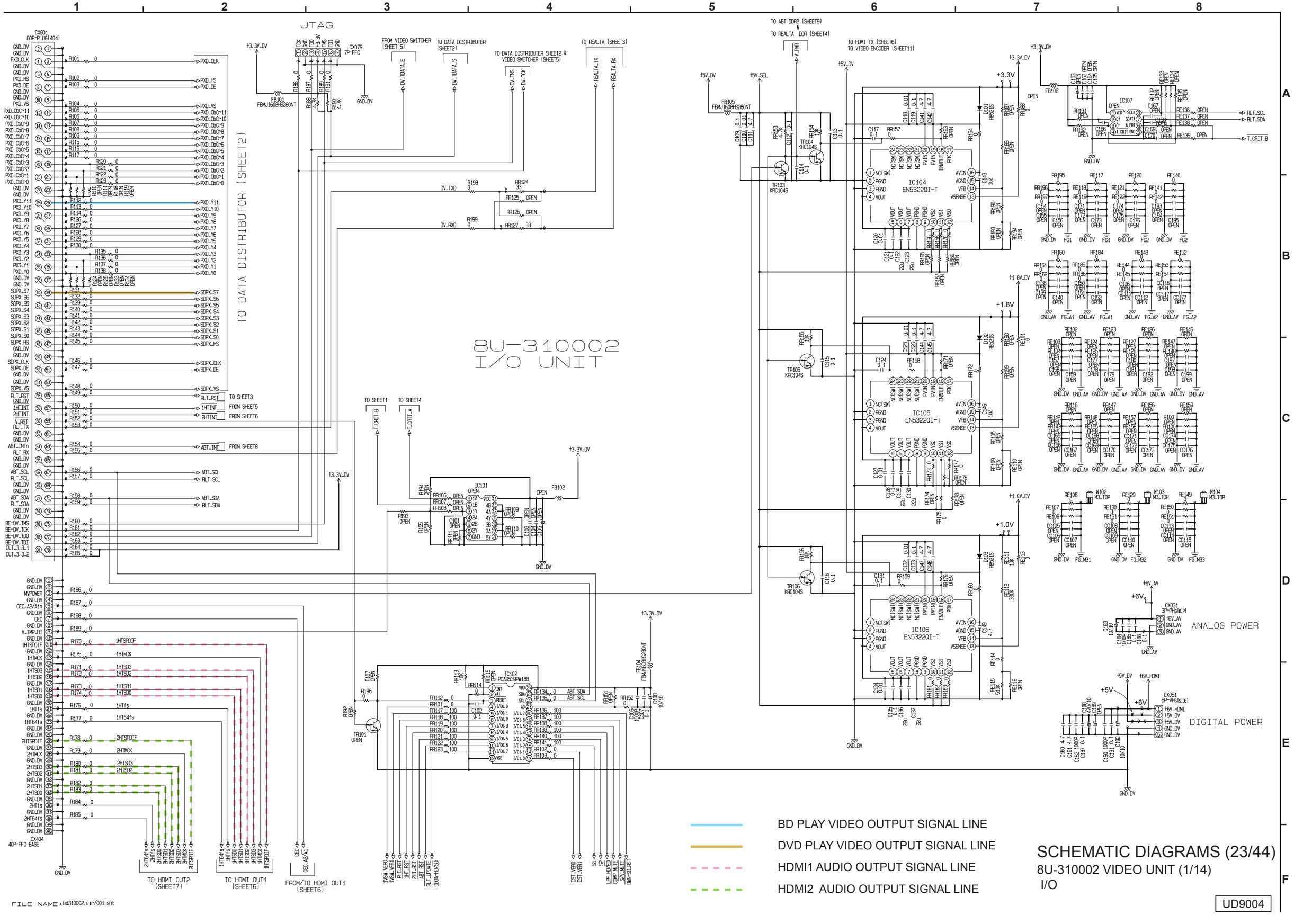
UD9004



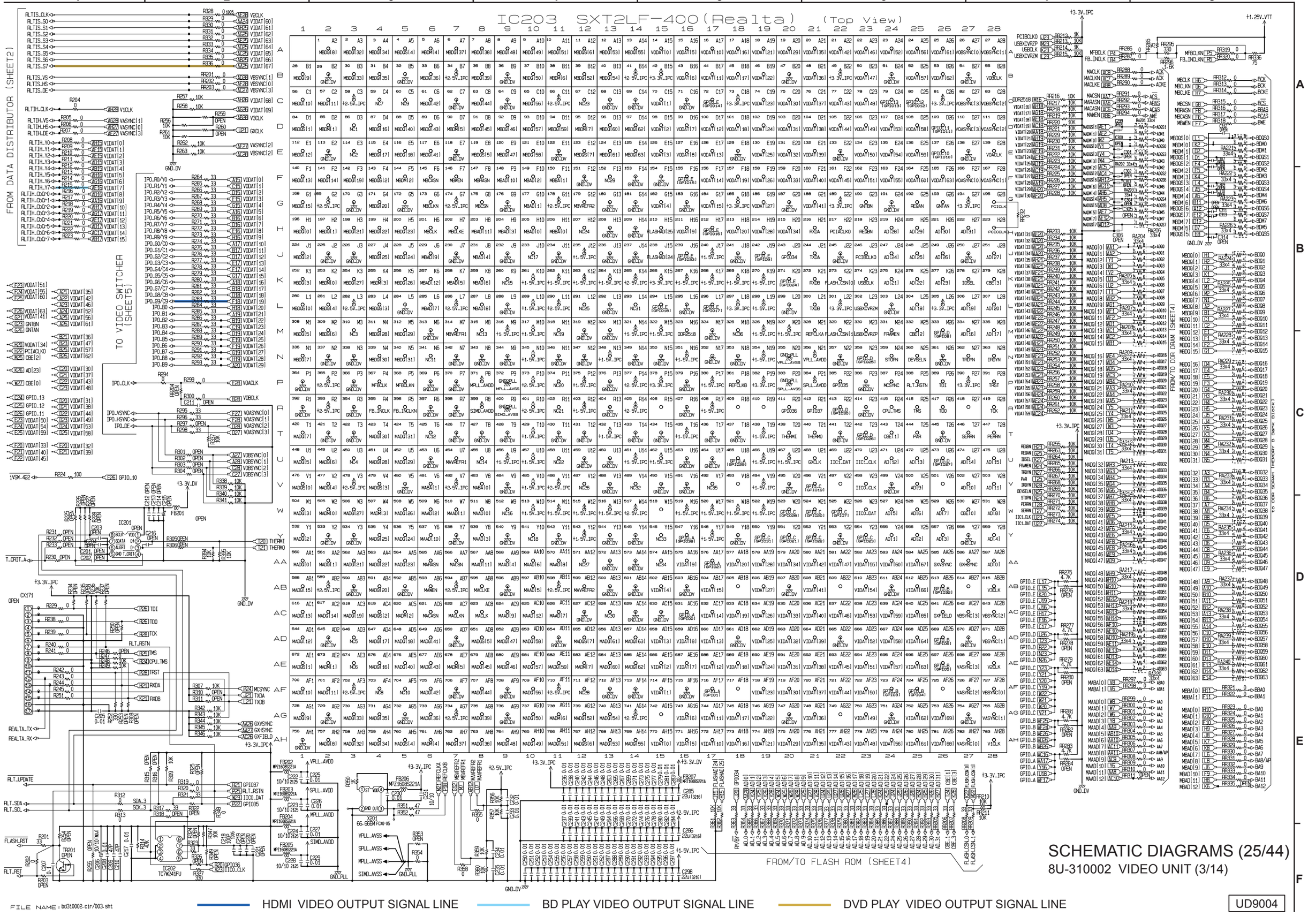
SCHEMATIC DIAGRAMS (22/44)

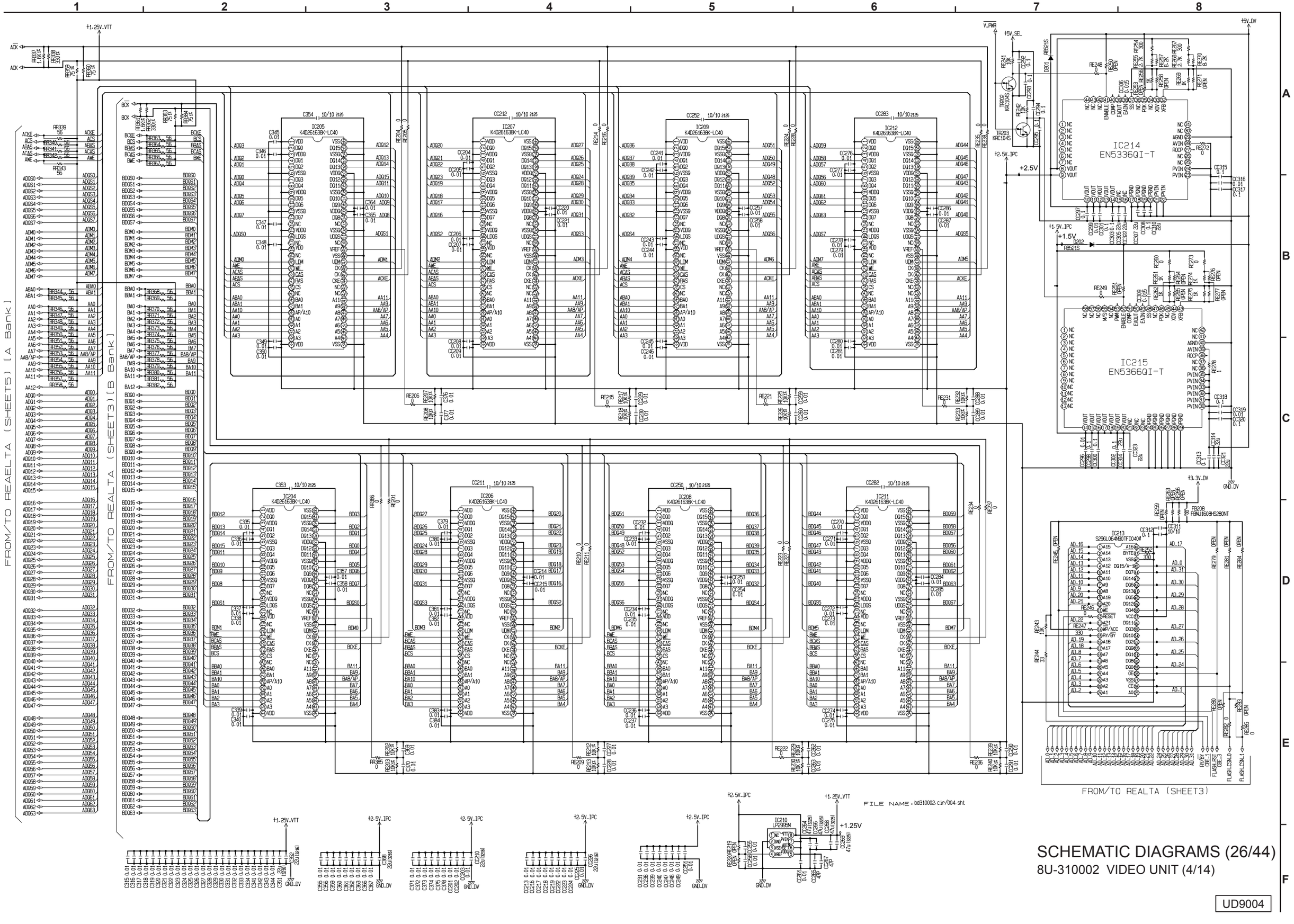
8U-37AK550001 MAIN UNIT(13/13)

UD9004


JTAG
TO DATA DISTRIBUTOR (SHEET2)
8U-310002
I/O UNIT
TO ABT DDR2 (SHEET9)
& TO REALTA DDR (SHEET4)
TO HDMI TX (SHEET6)
TO VIDEO ENCODER (SHEET11)
FROM VIDEO SWITCHER (SHEET 5)
TO DATA DISTRIBUTER (SHEET2)
TO DATA DISTRIBUTER SHEET2 & VIDEO SWITCHER (SHEET5)
TO REALTA (SHEET3)
TO SHEET1
TO SHEET4
TO HDMI OUT2 (SHEET7)
TO HDMI OUT1 (SHEET6)
FROM/TO HDMI OUT1 (SHEET6)
ANALOG POWER
DIGITAL POWER
BD PLAY VIDEO OUTPUT SIGNAL LINE
DVD PLAY VIDEO OUTPUT SIGNAL LINE
HDMI1 AUDIO OUTPUT SIGNAL LINE
HDMI2 AUDIO OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (23/44)
8U-310002 VIDEO UNIT (1/14)
I/O
UD9004
FILE NAME : bd310002.cir/001.sht

FROM I/O (SHEET1)
TO VIDEO ENCODER FOR Y/C (SHEET13)
TO ABT2010 (SHEET8)
TO REALTA (SHEET3)
FROM I/O (SHEET1)
FROM/TO I/O (SHEET1)
JTAG
FROM I/O (SHEET1)
TO VIDEO SWITCHER (SHEET5)
IC108
EPM570F256C5N
8U-310002
DATA DISTRIBUTOR
BD PLAY VIDEO OUTPUT SIGNAL LINE
DVD PLAY VIDEO OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (24/44)
8U-310002 VIDEO UNIT (2/14)
DATA DISTRBUTOR
UD9004
FILE NAME : bd310002.cir/002.sht

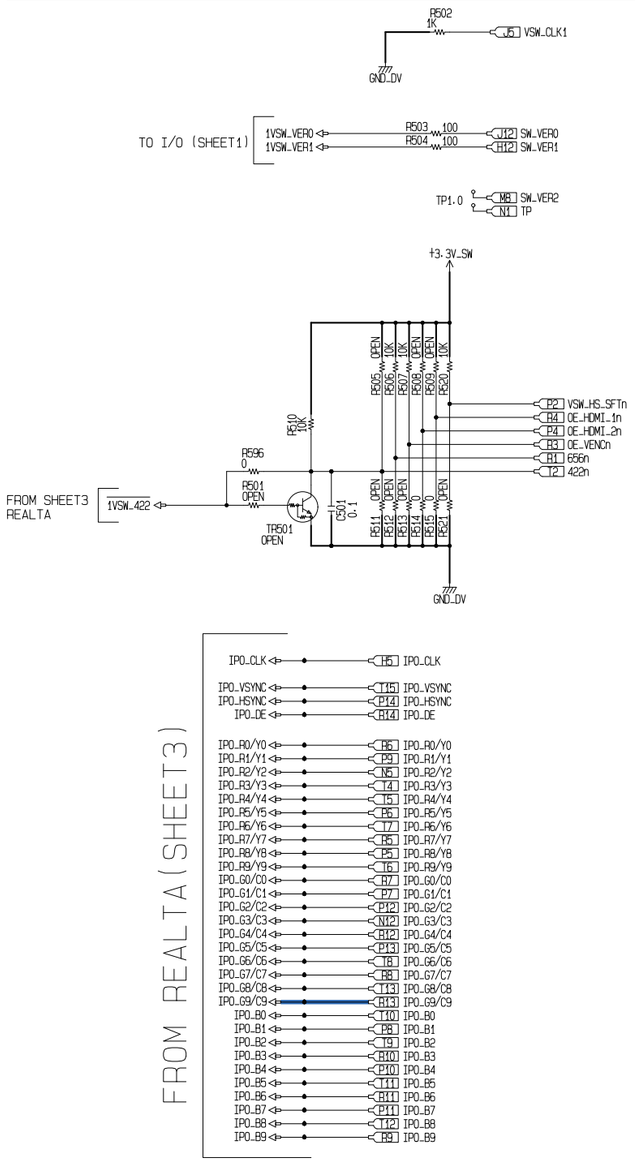

IC203 SXT2LF-400 (Realta) (Top View)
FROM DATA DISTRIBUTOR (SHEET2)
TO VIDEO SWITCHER (SHEET5)
FROM/TO DDR DRAM (SHEET4)
FROM/TO FLASH ROM (SHEET4)
SCHEMATIC DIAGRAMS (25/44)
8U-310002 VIDEO UNIT (3/14)
UD9004
FILE NAME : bd310002-cir/003.sht
HDMI VIDEO OUTPUT SIGNAL LINE
BD PLAY VIDEO OUTPUT SIGNAL LINE
DVD PLAY VIDEO OUTPUT SIGNAL LINE

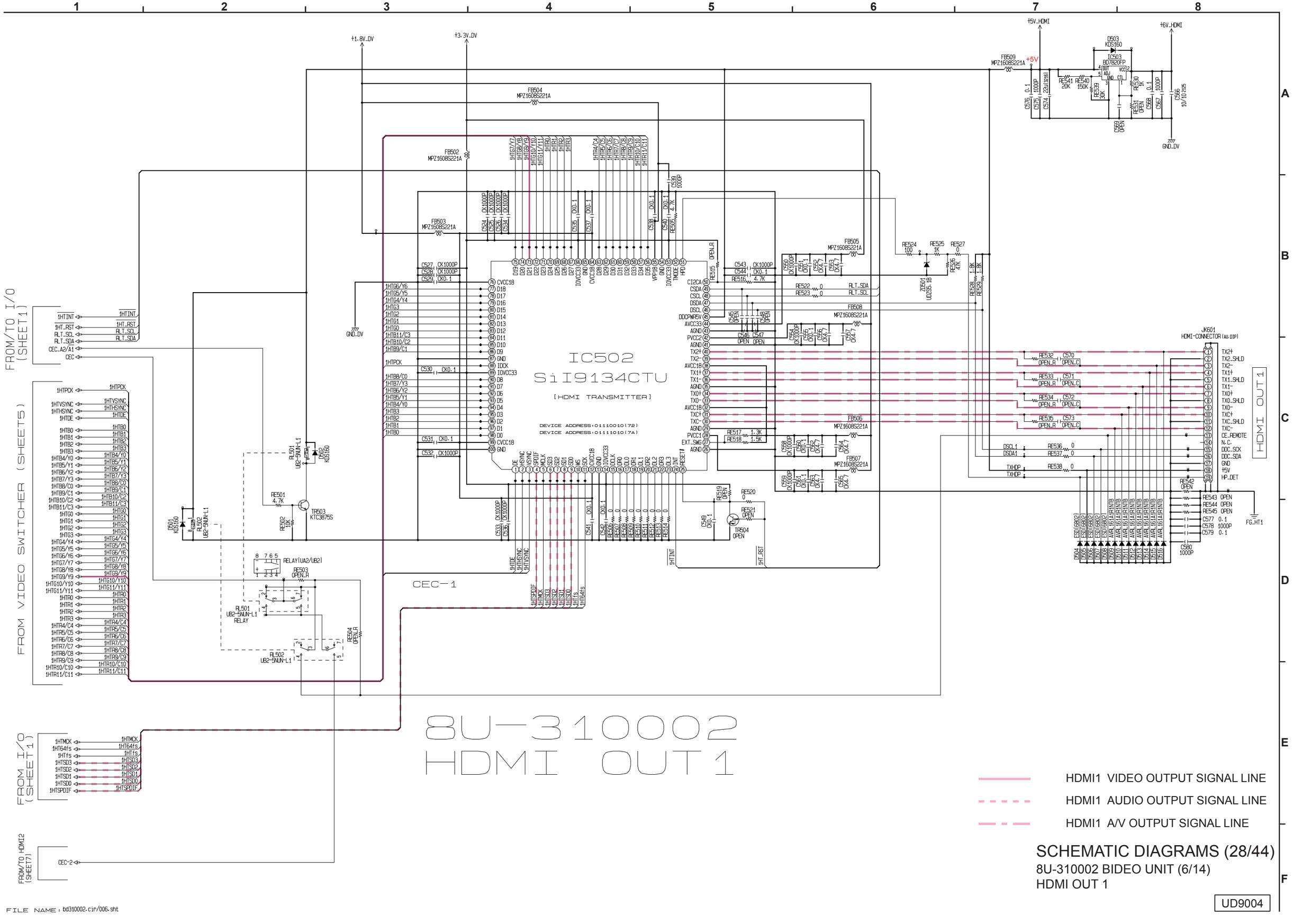


SCHEMATIC DIAGRAMS (26/44)

8U-310002 VIDEO UNIT (4/14)

UD9004


R502 1K
J5 VSW_CLK1
GND_DV
TO I/O (SHEET1)
1VSW_VER0
1VSW_VER1
R503 100
R504 100
J12 SW_VER0
H12 SW_VER1
TP1.0
M8 SW_VER2
N1 TP
+3.3V_SW
R510 10K
R596 0
R501 OPEN
TR501 OPEN
C501 0.1
FROM SHEET3 REALTA
1VSW_422
R505 OPEN
R506 10K
R507 OPEN
R508 10K
R509 OPEN
R520 10K
R511 OPEN
R512 OPEN
R513 0
R514 0
R515 OPEN
R521 10K
P2 VSW_HS_SFTn
R4 OE_HDMI_1n
P4 OE_HDMI_2n
R3 OE_VENCn
R1 656n
T2 422n
GND_DV
FROM REALTA (SHEET3)
IPO_CLK H5 IPO_CLK
IPO_VSYNC T15 IPO_VSYNC
IPO_HSYNC P14 IPO_HSYNC
IPO_DE R14 IPO_DE
IPO_R0/Y0 R6 IPO_R0/Y0
IPO_R1/Y1 P9 IPO_R1/Y1
IPO_R2/Y2 N5 IPO_R2/Y2
IPO_R3/Y3 T4 IPO_R3/Y3
IPO_R4/Y4 T5 IPO_R4/Y4
IPO_R5/Y5 P6 IPO_R5/Y5
IPO_R6/Y6 T7 IPO_R6/Y6
IPO_R7/Y7 R5 IPO_R7/Y7
IPO_R8/Y8 P5 IPO_R8/Y8
IPO_R9/Y9 T6 IPO_R9/Y9
IPO_G0/C0 R7 IPO_G0/C0
IPO_G1/C1 P7 IPO_G1/C1
IPO_G2/C2 P12 IPO_G2/C2
IPO_G3/C3 N12 IPO_G3/C3
IPO_G4/C4 R12 IPO_G4/C4
IPO_G5/C5 P13 IPO_G5/C5
IPO_G6/C6 T8 IPO_G6/C6
IPO_G7/C7 R8 IPO_G7/C7
IPO_G8/C8 T13 IPO_G8/C8
IPO_G9/C9 R13 IPO_G9/C9
IPO_B0 T10 IPO_B0
IPO_B1 R8 IPO_B1
IPO_B2 T9 IPO_B2
IPO_B3 R10 IPO_B3
IPO_B4 P10 IPO_B4
IPO_B5 T11 IPO_B5
IPO_B6 R11 IPO_B6
IPO_B7 P11 IPO_B7
IPO_B8 T12 IPO_B8
IPO_B9 R9 IPO_B9
IC501
EPM570F256C5N
1HT_PCK A2
R524 22
C522 OPEN
1HTPCK
1HT_VSYNC D13
1HT_HSYNC C13
1HT_DE A15
R525 22
R526 22
R527 22
1HTVSYNC
1HTHSYNC
1HTDE
1HT_B0 B14
1HT_B1 B13
1HT_B2 A13
1HT_B3 C12
1HT_B4/Y0 D12
1HT_B5/Y1 B12
1HT_B6/Y2 A12
1HT_B7/Y3 D11
R528 22
R529 22
R530 22
R531 22
R532 22
R533 22
R537 22
R538 22
1HTB0
1HTB1
1HTB2
1HTB3
1HTB4/Y0
1HTB5/Y1
1HTB6/Y2
1HTB7/Y3
1HT_B8/C0 C11
1HT_B9/C1 B11
1HT_B10/C2 A11
1HT_B11/C3 B10
1HT_G0 A10
1HT_G1 C10
1HT_G2 C9
1HT_G3 B9
1HT_G4/Y4 A9
1HT_G5/Y5 B8
1HT_G6/Y6 A8
1HT_G7/Y7 C8
1HT_G8/Y8 B7
1HT_G9/Y9 A7
1HT_G10/Y10 C7
1HT_G11/Y11 C6
R539 22
R540 22
R541 22
R542 22
R543 22
R544 22
R545 22
R534 22
R535 22
R536 22
R546 22
R547 22
R548 22
R549 22
R550 22
R551 22
R552 22
1HTB8/C0
1HTB9/C1
1HTB10/C2
1HTB11/C3
1HTG0
1HTG1
1HTG2
1HTG3
1HTG4/Y4
1HTG5/Y5
1HTG6/Y6
1HTG7/Y7
1HTG8/Y8
1HTG9/Y9
1HTG10/Y10
1HTG11/Y11
1HT_R0 C5
1HT_R1 D5
1HT_R2 B6
1HT_R3 A6
1HT_R4/C4 B5
1HT_R5/C5 A5
1HT_R6/C6 B4
1HT_R7/C7 A4
1HT_R8/C8 B3
1HT_R9/C9 C4
1HT_R10/C10 D4
1HT_R11/C11 E4
R553 22
R554 22
R555 22
R556 22
R557 22
R558 22
R559 22
R560 22
R561 22
R562 22
R563 22
1HTR0
1HTR1
1HTR2
1HTR3
1HTR4/C4
1HTR5/C5
1HTR6/C6
1HTR7/C7
1HTR8/C8
1HTR9/C9
1HTR10/C10
1HTR11/C11
TO HDMI TX1 (SHEET6)
R564 22
C523 OPEN
2HT_PCK B16
2HTPCK
2HT_VSYNC H16
2HT_HSYNC P15
2HT_DE N14
R565 22
R566 22
R567 22
2HTVSYNC
2HTHSYNC
2HTDE
2HT_B0 N16
2HT_B1 N13
2HT_B2 N15
2HT_B3 M14
2HT_B4/Y0 M16
2HT_B5/Y1 M13
2HT_B6/Y2 M15
2HT_B7/Y3 L14
R568 22
R569 22
R570 22
R571 22
R572 22
R573 22
R577 22
RR502 22
2HTB0
2HTB1
2HTB2
2HTB3
2HTB4/Y0
2HTB5/Y1
2HTB6/Y2
2HTB7/Y3
2HT_B8/C0 L16
2HT_B9/C1 L13
2HT_B10/C2 L15
2HT_B11/C3 K16
2HT_G0 K14
2HT_G1 K15
2HT_G2 J16
2HT_G3 J14
2HT_G4/Y4 J15
2HT_G5/Y5 H16
2HT_G6/Y6 H14
2HT_G7/Y7 H15
2HT_G8/Y8 G16
2HT_G9/Y9 G14
2HT_G10/Y10 G15
2HT_G11/Y11 F16
2HT_R0 F14
2HT_R1 F13
2HT_R2 F15
2HT_R3 E16
2HT_R4/C4 E15
2HT_R5/C5 E14
2HT_R6/C6 E13
2HT_R7/C7 D16
2HT_R8/C8 D15
2HT_R9/C9 D14
2HT_R10/C10 C15
2HT_R11/C11 C14
RR503 22
RR504 22
RR505 22
RR506 22
RR507 22
RR508 22
RR509 22
R574 22
R575 22
R576 22
R578 22
R579 22
R580 22
R581 22
R582 22
R583 22
R584 22
R585 22
R586 22
R587 22
R588 22
R589 22
R590 22
R591 22
R592 22
R593 22
R594 22
R595 22
2HTG0
2HTG1
2HTG2
2HTG3
2HTG4/Y4
2HTG5/Y5
2HTG6/Y6
2HTG7/Y7
2HTG8/Y8
2HTG9/Y9
2HTG10/Y10
2HTG11/Y11
2HTR0
2HTR1
2HTR2
2HTR3
2HTR4/C4
2HTR5/C5
2HTR6/C6
2HTR7/C7
2HTR8/C8
2HTR9/C9
2HTR10/C10
2HTR11/C11
TO HDMI TX2 (SHEET7)
+3.3V_DV
+3.3V_SW
VSW_RSTn
FB501 FBMJ1608HS280NT
R522 OPEN
TR502 OPEN
R502 0
C502 0.1
R503 OPEN
C503 OPEN(TA3216)
C504 4.7
C505 4.7
C506 0.1000P
C507 0.1000P
C508 0.1000P
C509 0.1000P
C510 0.1000P
C511 0.1000P
C512 0.1000P
C513 0.1000P
C514 0.1
C515 0.1
C516 0.1
C517 0.1
C518 0.1
C519 0.1
C520 0.1
C521 0.1
GND_DV
PLD_RST
FROM I/O (SHEET1)
VENC_Y0 VENC_Y1 VENC_Y2 VENC_Y3 VENC_Y4 VENC_Y5 VENC_Y6 VENC_Y7 VENC_Y8 VENC_Y9 VENC_C0 VENC_C1 VENC_C2 VENC_C3 VENC_C4 VENC_C5 VENC_C6 VENC_C7 VENC_C8 VENC_C9
VENC_CLK VENC_HSYNC VENC_VSYNC VENC_DE
VENC_S0 VENC_S1 VENC_S2 VENC_S3 VENC_S4 VENC_S5 VENC_S6 VENC_S7 VENC_S8 VENC_S9
JTAG
FORM I/O (SHEET1)
DV_TCK R516 0 P3 VSW_TCK
DV_TMS R517 0 N4 VSW_TMS
FROM DATA DISTRIBUTER (SHEET2)
DV_TDATA_1 R518 0 L6 VSW_TDI
TO I/O (SHEET1)
DV_TDATA_E R519 0 M5 VSW_TDO
8U-310002
V1 VIDEO SWITCHER
HDMI VIDEO OUTPUT SIGNAL LINE
HDMI1 VIDEO OUTPUT SIGNAL LINE
HDMI2 VIDEO OUTPUT SIGNAL LINE
FILE NAME : bd310002.cir/005.sht
SCHEMATIC DIAGRAMS (27/44)
8U-310002 VIDEO UNIT (5/14)
V1 VIDEO SWITCHER
UD9004



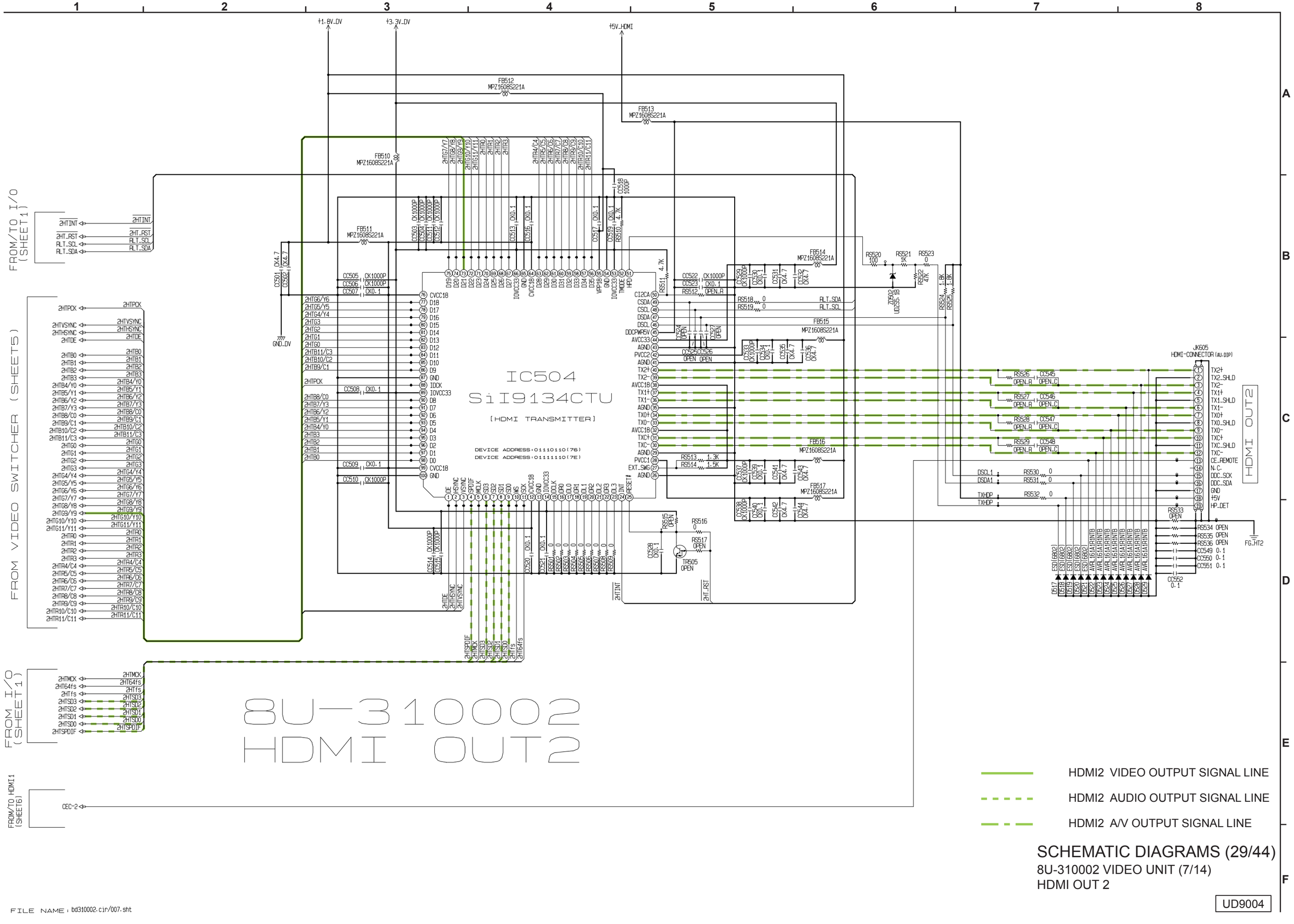
SCHEMATIC DIAGRAMS (28/44)

8U-310002 BIDEO UNIT (6/14)

HDMI OUT 1

UD9004

FILE NAME : bd310002.cir/006.sht



SCHEMATIC DIAGRAMS (29/44)

8U-310002 VIDEO UNIT (7/14)

HDMI OUT 2

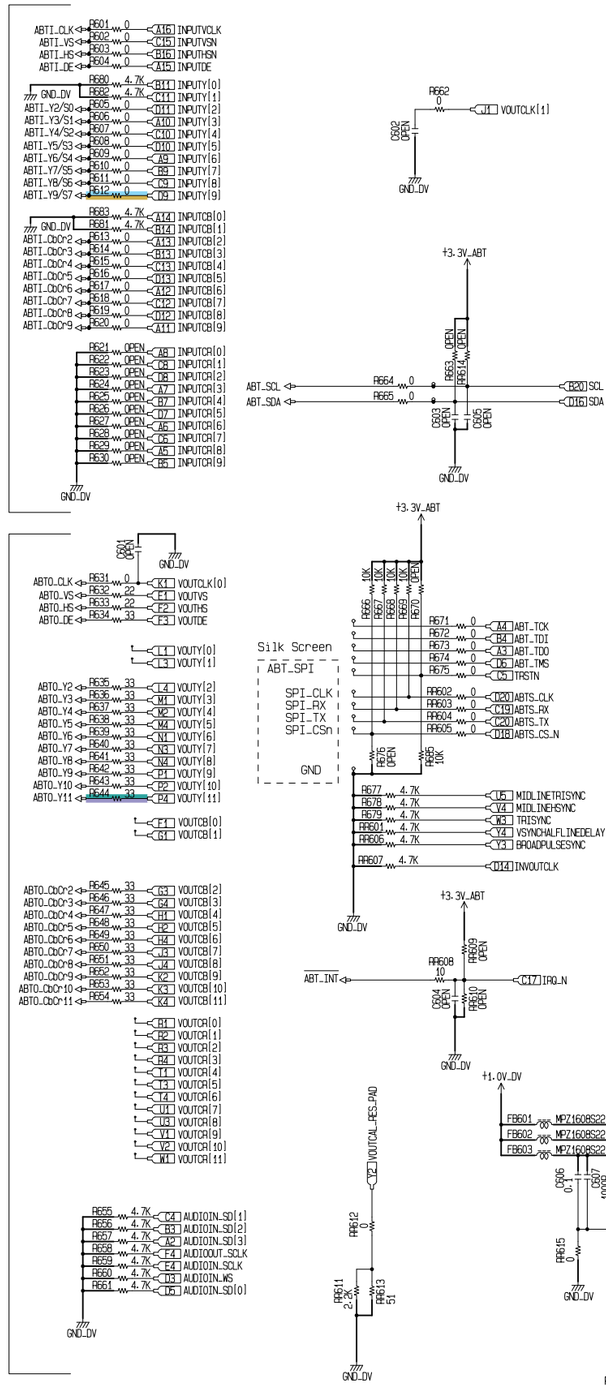
UD9004

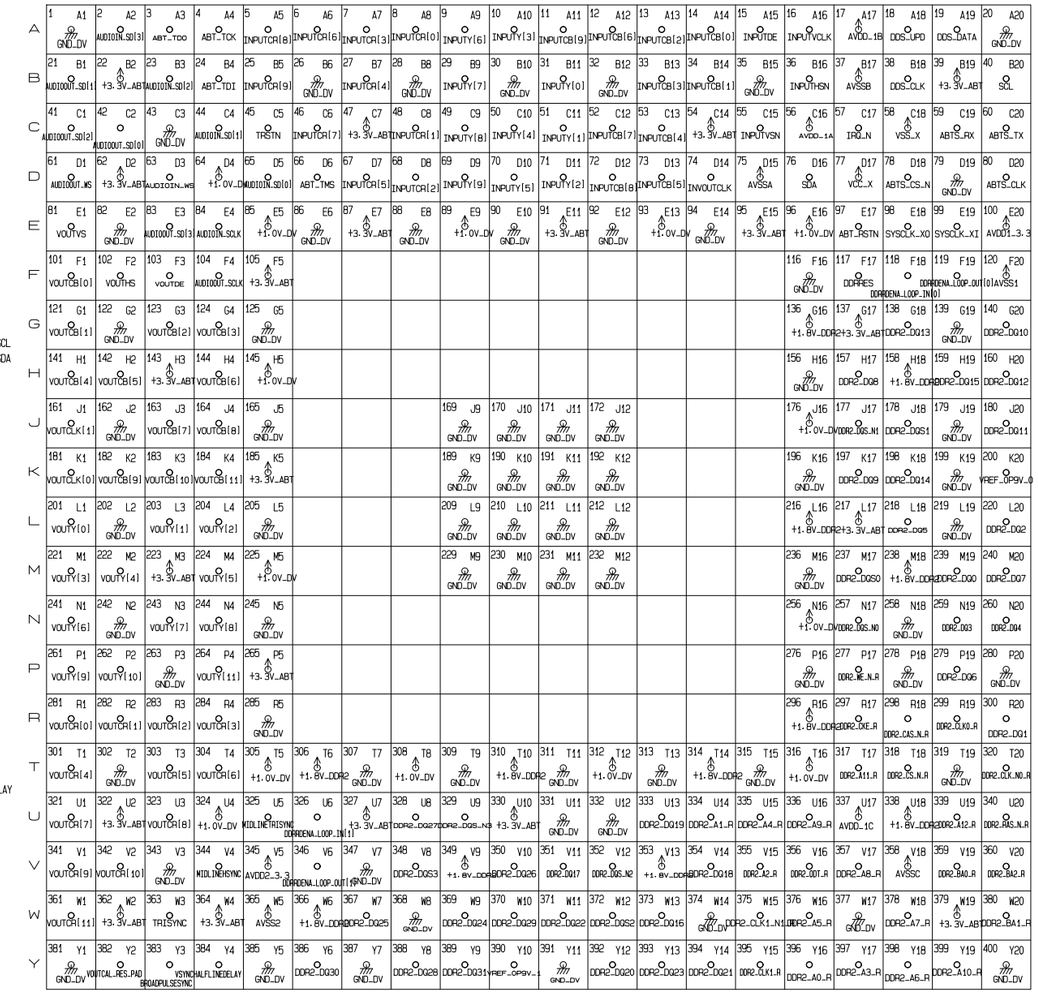
FILE NAME : bd310002.cir/007.sht

FROM DATA DISTRIBUTOR (SHEET2)

TO VIDEO SIGNAL DIVIDER (SHEET10)

FROM/TO DDR2 (SHEET9)




1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
A B C D E F G H J K L M N P R T U V W Y
GND_DV
AUDIOOUT_SD[1]
AUDIOIN_SD[2]
ABT_TDO
ABT_TDI
INPUTCR[9]
INPUTCR[4]
INPUTCR[8]
INPUTCR[3]
INPUTCB[6]
INPUTCB[0]
INPUTCB[3]
INPUTCB[1]
INPUTY[6]
INPUTY[3]
INPUTCB[9]
INPUTCB[2]
INPUTCB[5]
INPUTCB[4]
INPUTCB[7]
INPUTCB[8]
INPUTY[7]
INPUTY[0]
INPUTY[4]
INPUTY[1]
INPUTY[9]
INPUTY[2]
INPUTY[5]
INPUTY[8]
INPUTCR[6]
INPUTCR[0]
INPUTCR[2]
INPUTCR[5]
INPUTCR[1]
INPUTCR[7]
INPUTVCLK
INPUTHSN
INPUTDE
AUDIOOUT_SD[2]
AUDIOOUT_SD[0]
AUDIOIN_WS
AUDIOIN_SD[0]
TRSTN
MIDLINETRISYNC
AUDIOOUT_SD[3]
AUDIOIN_SCLK
AUDIOIN_SD[3]
ABT_TMS
INVOUTCLK
AUDIOOUT_SCLK
VOUTCLK[1]
VOUTVS
VOUTHS
VOUTDE
VOUTCB[0]
VOUTCB[1]
VOUTCB[2]
VOUTCB[3]
VOUTCB[4]
VOUTCB[5]
VOUTCB[6]
VOUTCB[7]
VOUTCB[8]
VOUTCB[9]
VOUTCB[10]
VOUTCB[11]
VOUTCR[0]
VOUTCR[1]
VOUTCR[2]
VOUTCR[3]
VOUTCR[4]
VOUTCR[5]
VOUTCR[6]
VOUTCR[7]
VOUTCR[8]
VOUTCR[9]
VOUTCR[10]
VOUTCR[11]
VOUTCAL_RES_PAD
BROADPULSESYNC
VSYNCHALFLINEDELAY
DDR2_DQ27
DDR2_DQS_N3
DDR2_DQ19
DDR2_A1_R
DDR2_A4_R
DDR2_A9_R
DDR2_A12_R
DDR2_DQ18
DDR2_A2_R
DDR2_DQ17
DDR2_A8_R
DDR2_A0_R
DDR2_DQ16
DDR2_A5_R
DDR2_A7_R
DDR2_A6_R
DDR2_A10_R
DDR2_A3_R
DDR2_DQ30
DDR2_DQ28
DDR2_DQ31
DDR2_DQ20
DDR2_DQ23
DDR2_DQ21
DDR2_DQ24
DDR2_DQ22
DDR2_DQ29
DDR2_DQ26
DDR2_DQS_N2
DDR2_DQS2
DDR2_DQ25
DDR2_DQS3
DDR2_DQ_N1
DDR2_DQ_N0
DDR2_DQ_N2
DDR2_DQ_N3
DDR2_DQ_N4
DDR2_DQ_N5
DDR2_DQ_N6
DDR2_DQ_N7
DDR2_DQ_N8
DDR2_DQ_N9
DDR2_DQ_N10
DDR2_DQ_N11
DDR2_DQ_N12
DDR2_DQ_N13
DDR2_DQ_N14
DDR2_DQ_N15
DDR2_DQ_N16
DDR2_DQ_N17
DDR2_DQ_N18
DDR2_DQ_N19
DDR2_DQ_N20
DDR2_DQ_N21
DDR2_DQ_N22
DDR2_DQ_N23
DDR2_DQ_N24
DDR2_DQ_N25
DDR2_DQ_N26
DDR2_DQ_N27
DDR2_DQ_N28
DDR2_DQ_N29
DDR2_DQ_N30
DDR2_DQ_N31
DDR2_DQ_N32
DDR2_DQ_N33
DDR2_DQ_N34
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DDR2_DQ_N38
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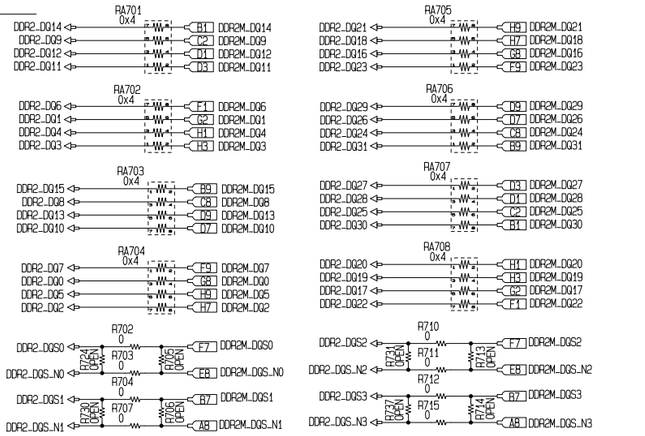
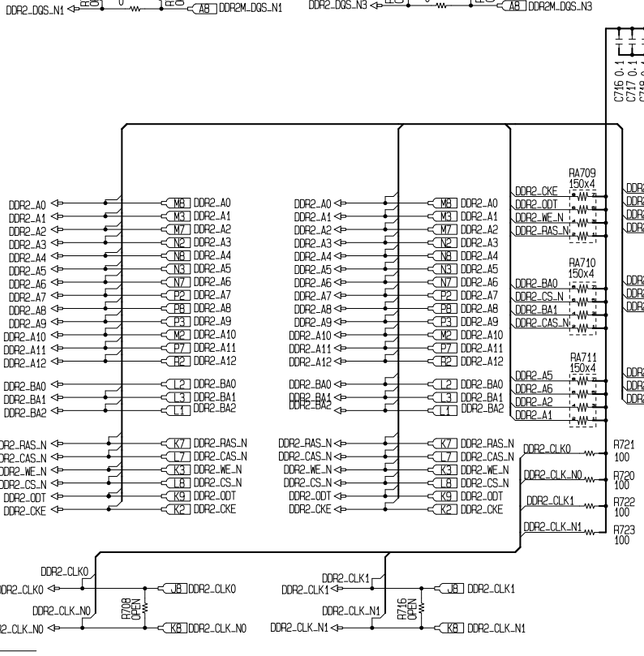
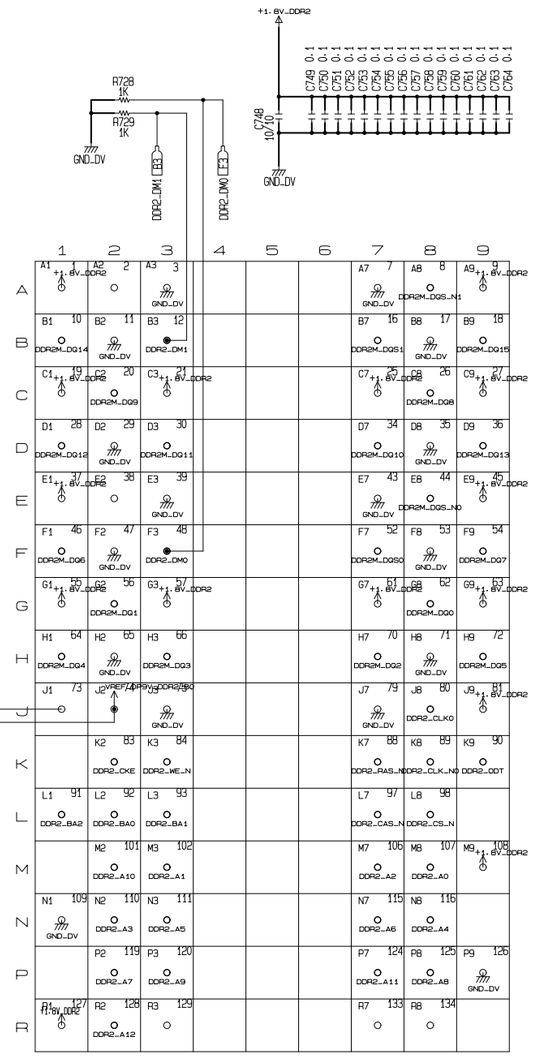
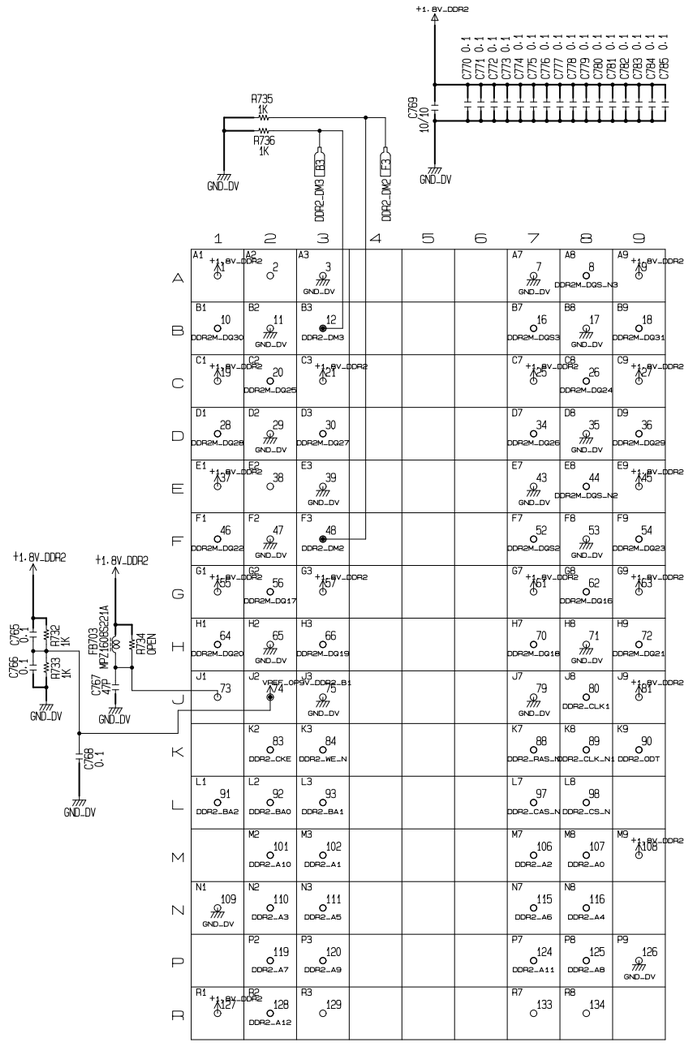
DDR2_DQ_N58
DDR2_DQ_N59
DDR2_DQ_N60
DDR2_DQ_N61
DDR2_DQ_N62
DDR2_DQ_N63
DDR2_CKE
DDR2_ODT
DDR2_WE_N
DDR2_RAS_N
DDR2_A5
DDR2_A6
DDR2_A2
DDR2_A1
DDR2_BA0
DDR2_CS_N
DDR2_BA1
DDR2_CAS_N
DDR2_CLK1
DDR2_CLK_N1
DDR2_CLK0
DDR2_CLK_N0
DDR2_BA2
DDR2_A0
DDR2_A10
DDR2_A3
DDR2_A4
DDR2_A12
DDR2_A7
DDR2_A8
DDR2_A9
DDR2_A11

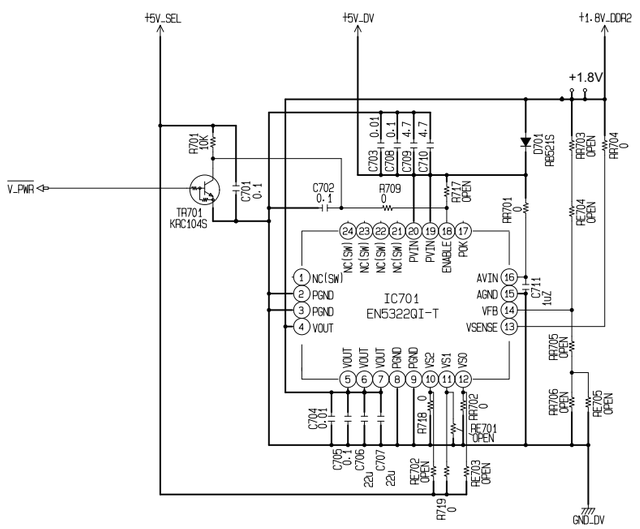
FROM/TO ABT2010 (SHEET8)

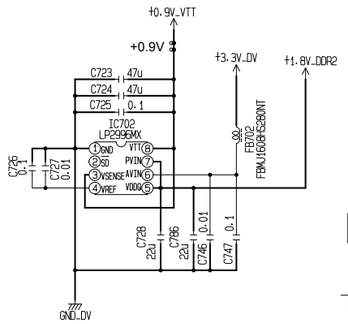












DDR2 × 2
for IC701 ABT2010

FILE NAME : bd310002.cir/009.sht

SCHEMATIC DIAGRAMS (31/44)
8U-310002 VIDEO UNIT (9/14)
DDR2 × 2 for IC701 ABT 2010

UD9004

FROM ABT2010 (SHEET8)

TO ABT1012 (SHEET12)

TO ADV7344 (SHEET11)

8U-310002
VIDEO SIGNAL DIVIDER

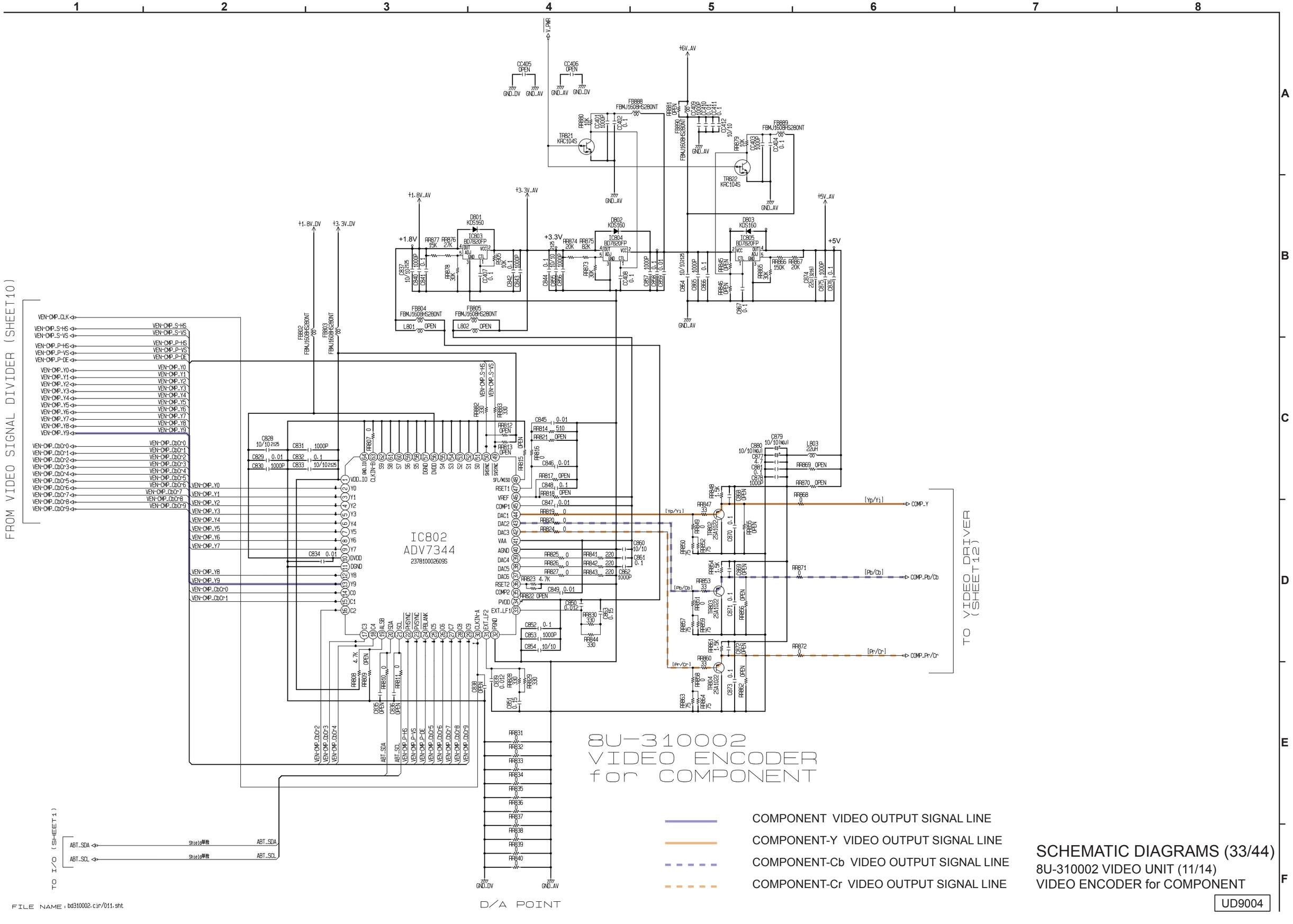
Y/C VIDEO OUTPUT SIGNAL LINE

COMPONENT VIDEO OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (32/44)
8U-310002 VIDEO UNIT (10/14)
VIDEO SIGNAL DIVIDER

UD9004

FILE NAME : bd310002.cir/010.sht

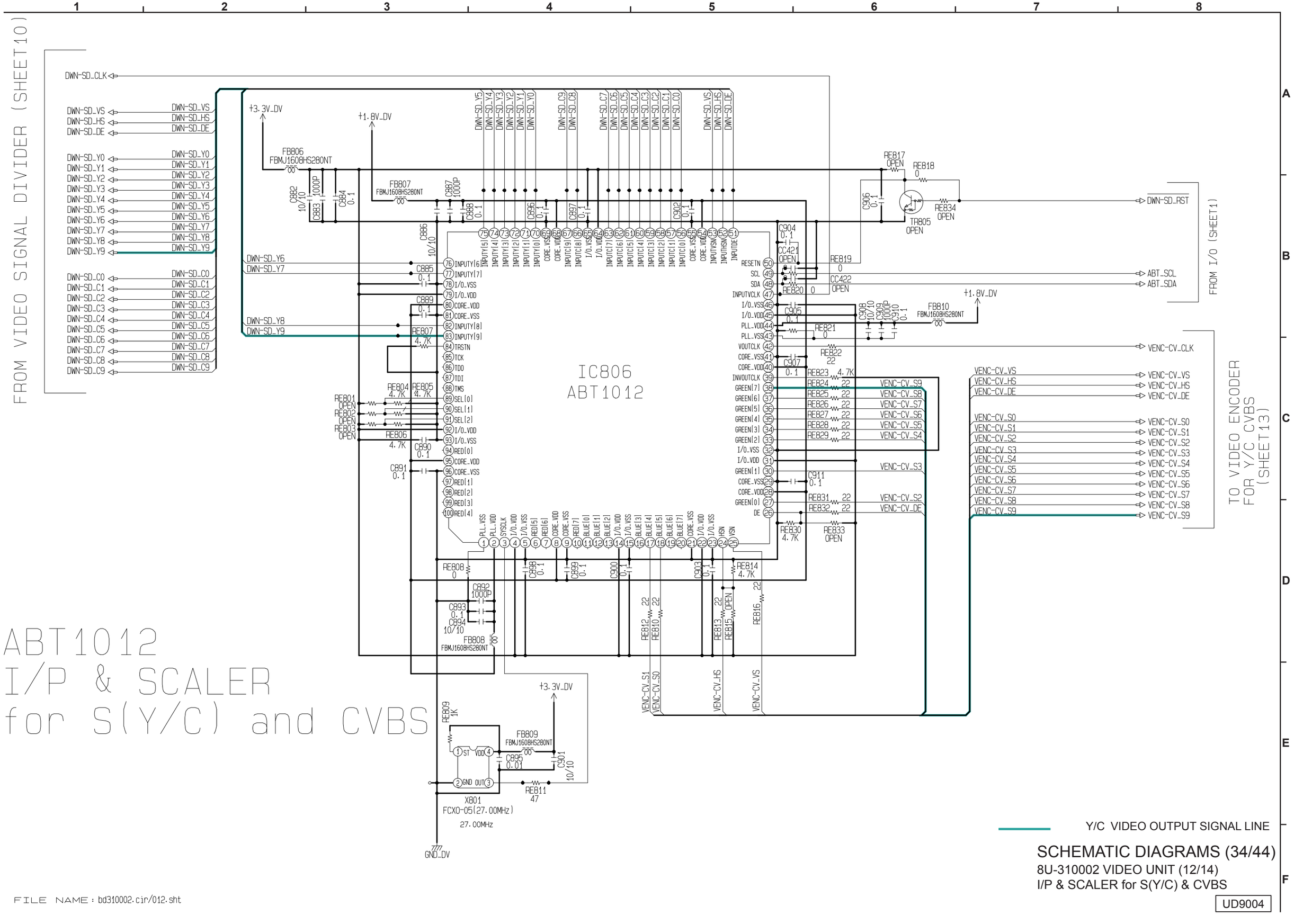


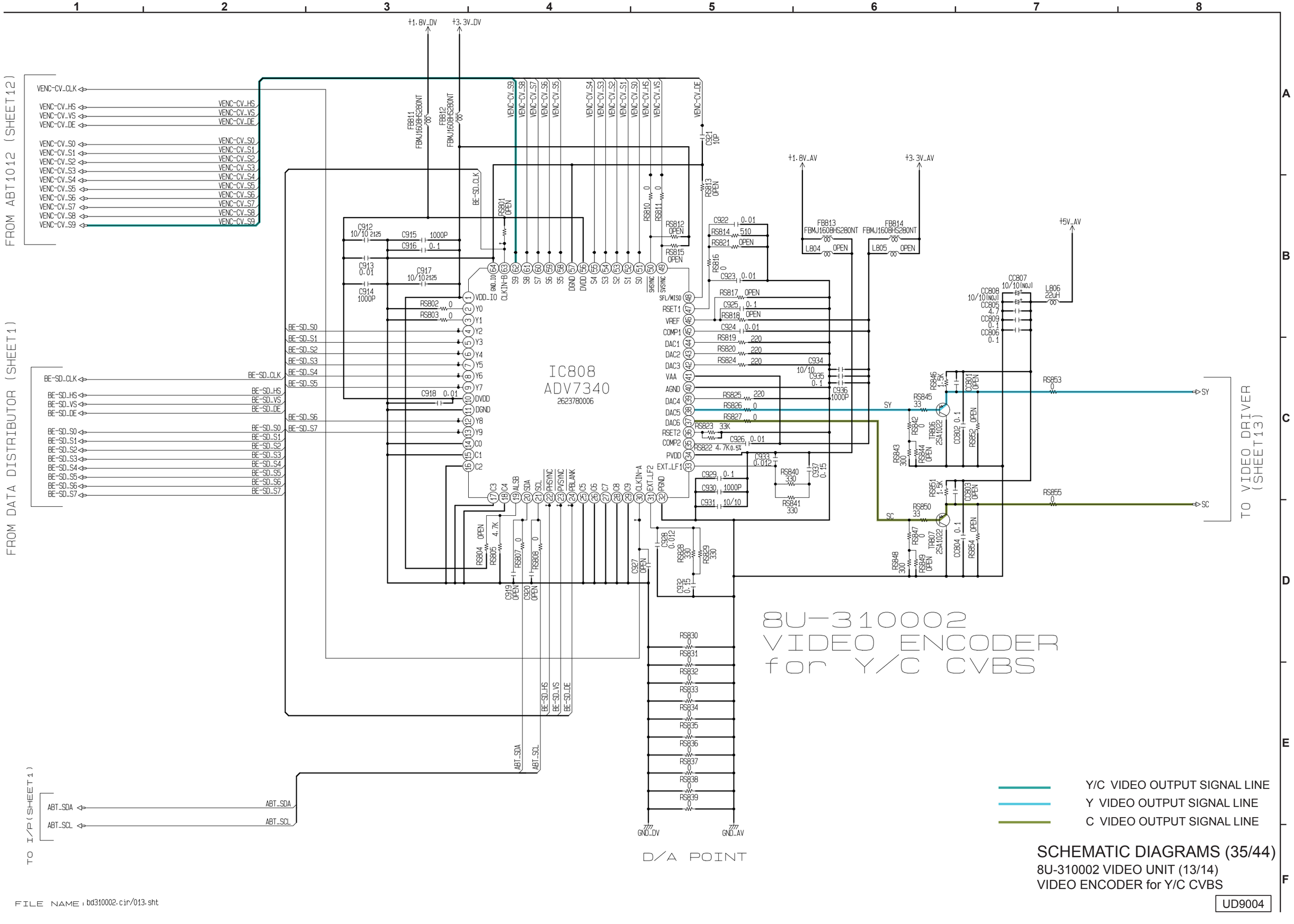
SCHEMATIC DIAGRAMS (33/44)

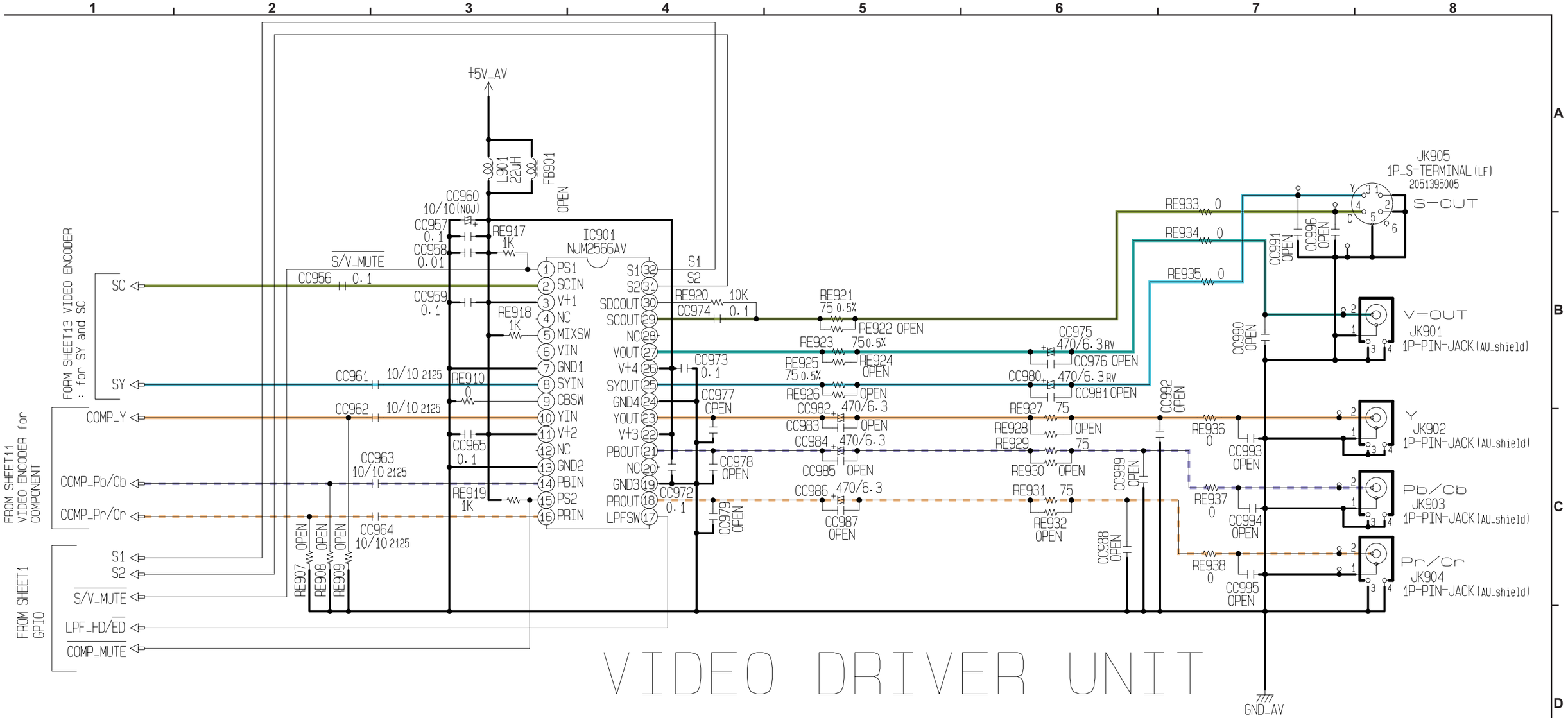
8U-310002 VIDEO UNIT (11/14)

VIDEO ENCODER for COMPONENT

UD9004


FROM VIDEO SIGNAL DIVIDER (SHEET10)
DWN-SD_CLK
DWN-SD_VS
DWN-SD_HS
DWN-SD_DE
DWN-SD_Y0
DWN-SD_Y1
DWN-SD_Y2
DWN-SD_Y3
DWN-SD_Y4
DWN-SD_Y5
DWN-SD_Y6
DWN-SD_Y7
DWN-SD_Y8
DWN-SD_Y9
DWN-SD_C0
DWN-SD_C1
DWN-SD_C2
DWN-SD_C3
DWN-SD_C4
DWN-SD_C5
DWN-SD_C6
DWN-SD_C7
DWN-SD_C8
DWN-SD_C9
+3.3V_DV
+1.8V_DV
FB806 FBMJ1608HS280NT
FB807 FBMJ1608HS280NT
C882 10/10
C883 1000P
C884 0.1
C886 10/10
C887 1000P
C888 0.1
C896 0.1
C897 0.1
C902 0.1
IC806
ABT1012
INPUTY[5]
INPUTY[4]
INPUTY[3]
INPUTY[2]
INPUTY[1]
INPUTY[0]
CORE_VSS
CORE_VDD
INPUTC[9]
INPUTC[8]
I/O_VSS
I/O_VDD
INPUTC[7]
INPUTC[6]
INPUTC[5]
INPUTC[4]
INPUTC[3]
INPUTC[2]
INPUTC[1]
INPUTC[0]
INPUTVSN
INPUTHSN
INPUTDE
RESETN
SCL
SDA
INPUTVCLK
PLL_VDD
PLL_VSS
VOUTCLK
INVOUTCLK
GREEN[7]
GREEN[6]
GREEN[5]
GREEN[4]
GREEN[3]
GREEN[2]
GREEN[1]
GREEN[0]
DE
PLL_VSS
PLL_VDD
SYSCLK
RED[5]
RED[6]
RED[7]
BLUE[0]
BLUE[1]
BLUE[2]
BLUE[3]
BLUE[4]
BLUE[5]
BLUE[6]
BLUE[7]
HSN
VSN
RE817 OPEN
RE818 0
TR805 OPEN
RE834 OPEN
C906 0.1
DWN-SD_RST
C904 0.1
CC421 OPEN
CC422 OPEN
RE819 0
RE820 0
ABT_SCL
ABT_SDA
C905 0.1
C908 10/10
C909 1000P
C910 0.1
FB810 FBMJ1608HS280NT
RE821 0
RE822 22
VENC_CV_CLK
C907 0.1
RE823 4.7K
RE824 22
RE825 22
RE826 22
RE827 22
RE828 22
RE829 22
VENC_CV_S9
VENC_CV_S8
VENC_CV_S7
VENC_CV_S6
VENC_CV_S5
VENC_CV_S4
VENC_CV_S3
VENC_CV_S2
VENC_CV_DE
C911 0.1
RE831 22
RE832 22
RE830 4.7K
RE833 OPEN
FROM I/O (SHEET11)
VENC_CV_VS
VENC_CV_HS
VENC_CV_DE
VENC_CV_S0
VENC_CV_S1
VENC_CV_S2
VENC_CV_S3
VENC_CV_S4
VENC_CV_S5
VENC_CV_S6
VENC_CV_S7
VENC_CV_S8
VENC_CV_S9
TO VIDEO ENCODER FOR Y/C CVBS (SHEET13)
DWN-SD_Y6
DWN-SD_Y7
C885 0.1
DWN-SD_Y8
DWN-SD_Y9
C889 0.1
RE807 4.7K
TRSTN
TCK
TDO
TDI
TMS
RE801 OPEN
RE802 OPEN
RE803 OPEN
RE804 4.7K
RE805 4.7K
SEL[0]
SEL[1]
SEL[2]
RE806 4.7K
C890 0.1
RED[0]
C891 0.1
RED[1]
RED[2]
RED[3]
RED[4]
RE808 0
C898 0.1
C899 0.1
C900 0.1
C903 0.1
RE814 4.7K
C892 1000P
C893 0.1
C894 10/10
FB808 FBMJ1608HS280NT
RE812 22
RE810 22
RE813 22
RE815 OPEN
RE816 22
VENC-CV_S1
VENC-CV_S0
VENC-CV_HS
VENC-CV_VS
+3.3V_DV
RE809 1K
FB809 FBMJ1608HS280NT
ST
VDD
GND
OUT
C895 0.01
C901 10/10
RE811 47
X801
FCXO-05(27.00MHz)
27.00MHz
GND_DV
ABT1012
I/P & SCALER
for S(Y/C) and CVBS
Y/C VIDEO OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (34/44)
8U-310002 VIDEO UNIT (12/14)
I/P & SCALER for S(Y/C) & CVBS
UD9004
FILE NAME : bd310002.cir/012.sht


FROM ABT1012 (SHEET12)
VENC-CV_CLK
VENC-CV_HS
VENC-CV_VS
VENC-CV_DE
VENC-CV_S0
VENC-CV_S1
VENC-CV_S2
VENC-CV_S3
VENC-CV_S4
VENC-CV_S5
VENC-CV_S6
VENC-CV_S7
VENC-CV_S8
VENC-CV_S9
FROM DATA DISTRIBUTOR (SHEET1)
BE-SD_CLK
BE-SD_HS
BE-SD_VS
BE-SD_DE
BE-SD_S0
BE-SD_S1
BE-SD_S2
BE-SD_S3
BE-SD_S4
BE-SD_S5
BE-SD_S6
BE-SD_S7
TO I/P (SHEET1)
ABT_SDA
ABT_SCL
+1.8V_DV
+3.3V_DV
+1.8V_AV
+3.3V_AV
+5V_AV
FB811 FBMJ1608HS280NT
FB812 FBMJ1608HS280NT
FB813 FBMJ1608HS280NT
FB814 FBMJ1608HS280NT
L804 OPEN
L805 OPEN
L806 22uH
IC808
ADV7340
2623780006
VDD_IO
CLKIN-B
SYNC
SFL/MISO
RSET1
VREF
COMP1
DAC1
DAC2
DAC3
VAA
AGND
DAC4
DAC5
DAC6
RSET2
COMP2
PVDD
EXT_LF1
EXT_LF2
PGND
CLKIN-A
ALSB
SDA
SCL
PHSYNC
PVSYNC
PBLANK
DVDD
DGND
SY
SC
TO VIDEO DRIVER (SHEET13)
8U-310002
VIDEO ENCODER
for Y/C CVBS
D/A POINT
GND_DV
GND_AV
Y/C VIDEO OUTPUT SIGNAL LINE
Y VIDEO OUTPUT SIGNAL LINE
C VIDEO OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (35/44)
8U-310002 VIDEO UNIT (13/14)
VIDEO ENCODER for Y/C CVBS
UD9004
FILE NAME : bd310002.cir/013.sht



VIDEO DRIVER UNIT

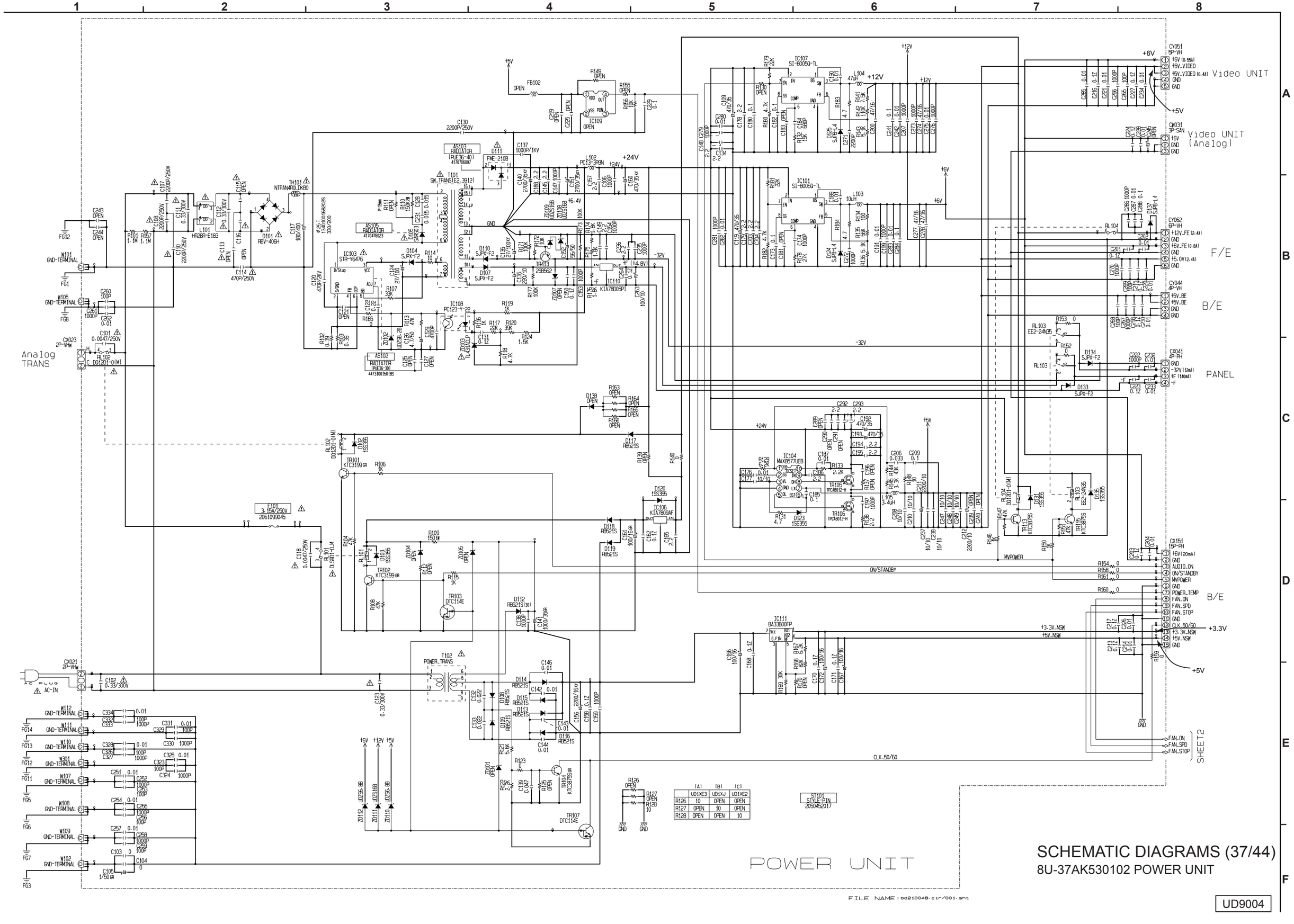
C VIDEO OUTPUT SIGNAL LINE
Y VIDEO OUTPUT SIGNAL LINE
Y/C VIDEO OUTPUT SIGNAL LINE
COMPONENT-Y VIDEO OUTPUT SIGNAL LINE
COMPONENT-Cb VIDEO OUTPUT SIGNAL LINE
COMPONENT-Cr VIDEO OUTPUT SIGNAL LINE

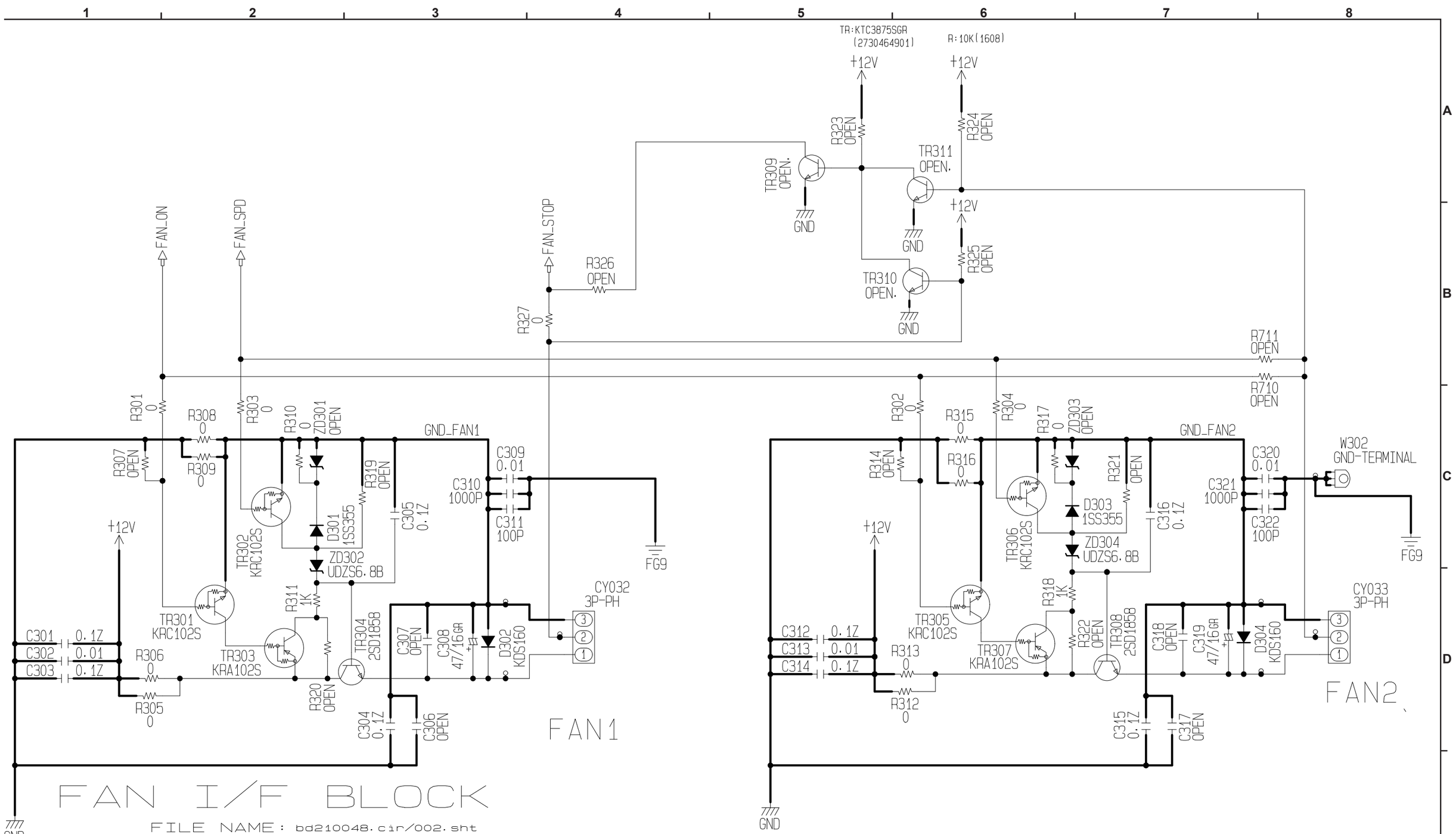
SCHEMATIC DIAGRAMS (36/44)

8U-310002 VIDEO UNIT (14/14)
VIDEO DRIVER

UD9004

FILE NAME: bd310002.cir/014.sht

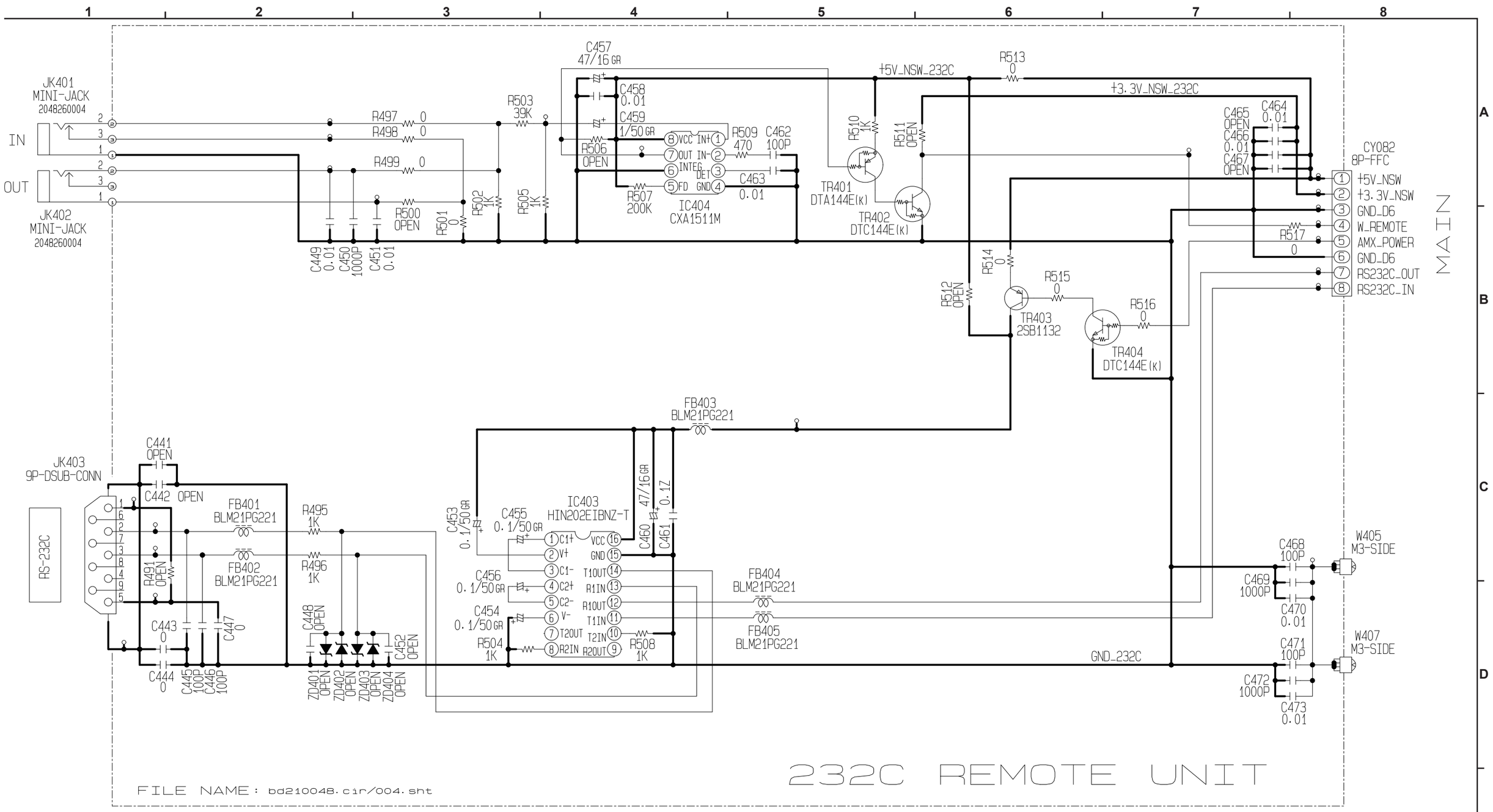

Analog TRANS
AC-IN
Video UNIT
Video UNIT (Analog)
F/E
B/E
PANEL
B/E
SHEET2
POWER UNIT
SCHEMATIC DIAGRAMS (37/44)
8U-37AK530102 POWER UNIT
UD9004
FILE NAME : bd210048.cir/001.snt



SCHEMATIC DIAGRAMS (38/44)

8U-37AK530001 POWER/DISPLAY UNIT
FAN I/F BLOCK

UD9004



SCHEMATIC DIAGRAMS (39/44)

8U-37AK530202 232C REMOTE UNIT

UD9004

00MWG37AK1010
5101

FRONT L/R

POWER SUPPLY

LFB DIFFERENCIAL HDAM-SA2 MODULE

SCHEMATIC DIAGRAMS (40/44)

00MWG37AK1010 AUDIO FRONT L/R UNIT

UD9004

00MWG37AK1020

5102

LFB DIFFERENCIAL HDAM-SA2 MODULE

LFB DIFFERENCIAL HDAM-SA2 MODULE

BALANCE L/R

LFB DIFFERENCIAL HDAM-SA2 MODULE

LFB DIFFERENCIAL HDAM-SA2 MODULE

SCHEMATIC DIAGRAMS (41/44)

00MWG37AK1020 AUDIO XLR UNIT

UD9004

00MWG37AK1030
5103

SURROUND BACK L/R

SUBWOOFER

LFB DIFFERENCIAL HDAM-SA2 MODULE

TO MAIN PWB JG53 25P_FFC 1MM_PITCH

TO SBL/SBR/C PWB JG54 8P2MMRE

TO SL/SR/C PWB JG51 B4B-EH-TS

TO SL/SR/C PWB JG52 B5B-EH-TS

QW31 AK4399EQ

SCHEMATIC DIAGRAMS (42/44)
00MWG37AK1030 SUR_BACK/S_W UNIT

UD9004

00MWG37AK2010 5201 DISPLAY/KEY PWB

FL_DISPLAY (15-BT-114GNK)

VF01
00D393809B000

TO POWER BOARD
GND_32
-32V
+F
-F

JF01
FFC CONNECTER 40PIN 0.5MM

TO CONNECTER PWB
SDWP
SDCD
GND_D4
SDDAT1
GND_D4
SDDAT0
GND_D4
SDCLK
SD_VDD33
SD_VDD33
SD-P_SENS
CMD
GND_D4
SDDAT3
GND_D4
SDDAT2
GND_D6
KEY0
KEY1
GND_D6
REMOTE
+3.3V_NSW
GND_D6
/FL_RST
/FL_CS
GND_D6
FL_CLK
GND_D6
FL_DATA
GND_D6
CLK_CONT_LED
AL32_LED
D-LINK_LED
+3.3V_
GND_D6
G_LED
R_LED
+5V_NSW
KEY2
GND_D6

+3.3V_NSW
+5V_NSW
+3.3V
GND_D6

QF01 QF02 QF03 QF04 QF05 QF06
DTC114EUA
SEC1E01C
DTA114EU
1SS301

ZF01
RPM-6936-V4:IR SENSOR

JF04
S5B-PH-K-S
+5V_NSW
STB_KEY
GND_D6
STB_LED
GRN_LED

JF03
S3B-PH-K-S
KEY2
GND_D6
SD/DISC

JF07
JF06
WF06
TO MAIN
WF01
TO FRONT

JF05
JT05
SDDAT2
SDDAT3
CMD
SD-P_SENS
SD_VDD33
SDCLK
SDDAT0
SDDAT1
SDCD
SDWP
SOURCE
GND_D4
GND_D6

JT01
SDK-9BNS-K13-GN

JT02
JT03

00MWG37AK2020
5202
SD CARD UNIT

00MWG37AK2060
5206
CONNECTER PWB

JP03
S3B-PH-K-S
HDMI RESOLUTION
SOUND MODE
PURE DIRECT
HDMI MODE
SD/DISC

000MWG37AK2030
5203
KEY PWB

JP04
S5B-PH-K-S
DP01
SPR-39MVWFN

STANDBY KEY/LED PWB
00MWG37AK2040
5204

SCHEMATIC DIAGRAMS (43/44)

00MWG37AK2010 DISPLAY/KEY PWB UNIT
00MWG37AK2020 SD CARD UNIT UNIT
00MWG37AK2030 KEY PWB UNIT
00MWG37AK2040 STANDBY KEY/LED PWB UNIT
00MWG37AK2060 CONNECTER PWB UNIT

UD9004

00MWG37AK2050

5205

SCHEMATIC DIAGRAMS (44/44)

00MWG37AK2050

SURROUND L/R

CENTER

UD9004