Service Manual

UD8004 /K1B/S1B/N1B/U1B/R1B

SUPER AUDIO CD/ BLU-RAY DISC PLAYER

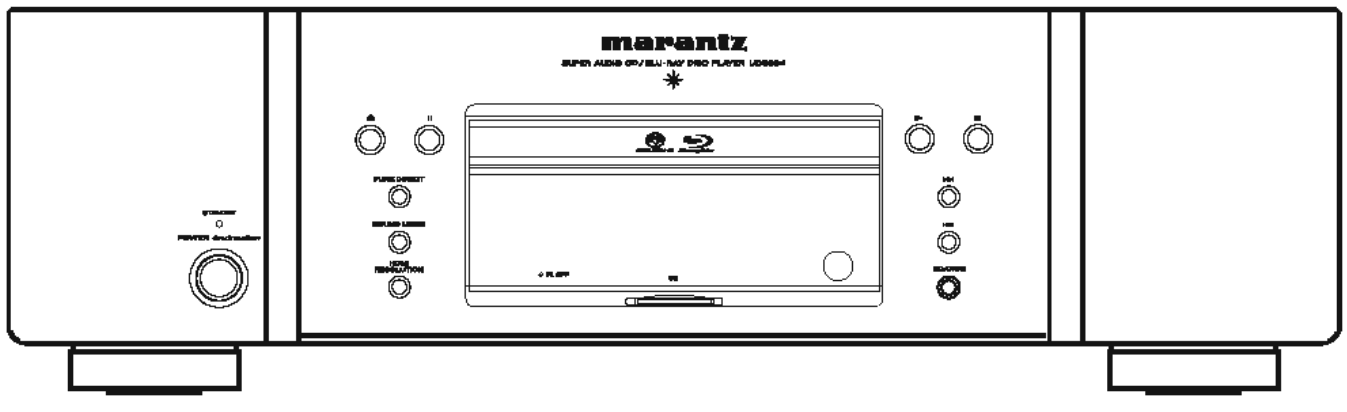

TABLE OF CONTENTS

Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

UD8004

X0446V01DM/DG0910

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

Part no. 90M38AK855010
First Issue 2009.10

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.

USA

MARANTZ AMERICA, INC
100 CORPORATE DRIVE
MAHWAH, NEW JERSEY 07430
USA

EUROPE / TRADING

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CANADA

D&M Canada Inc.
5-505 APPLE CREEK BLVD.
MARKHAM, ONTARIO L3R 5B1
CANADA
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JAPAN

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神奈川県川崎市川崎区日進町2-1 D&Mビル

KOREA

D&M SALES AND MARKETING KOREA LTD.
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D&M SALES AND MARKETING SHANGHAI LTD.
ROOM.808 SHANGHAI AIRPORT CITY TERMINAL
NO.1600 NANJING (WEST) ROAD, SHANGHAI,
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.

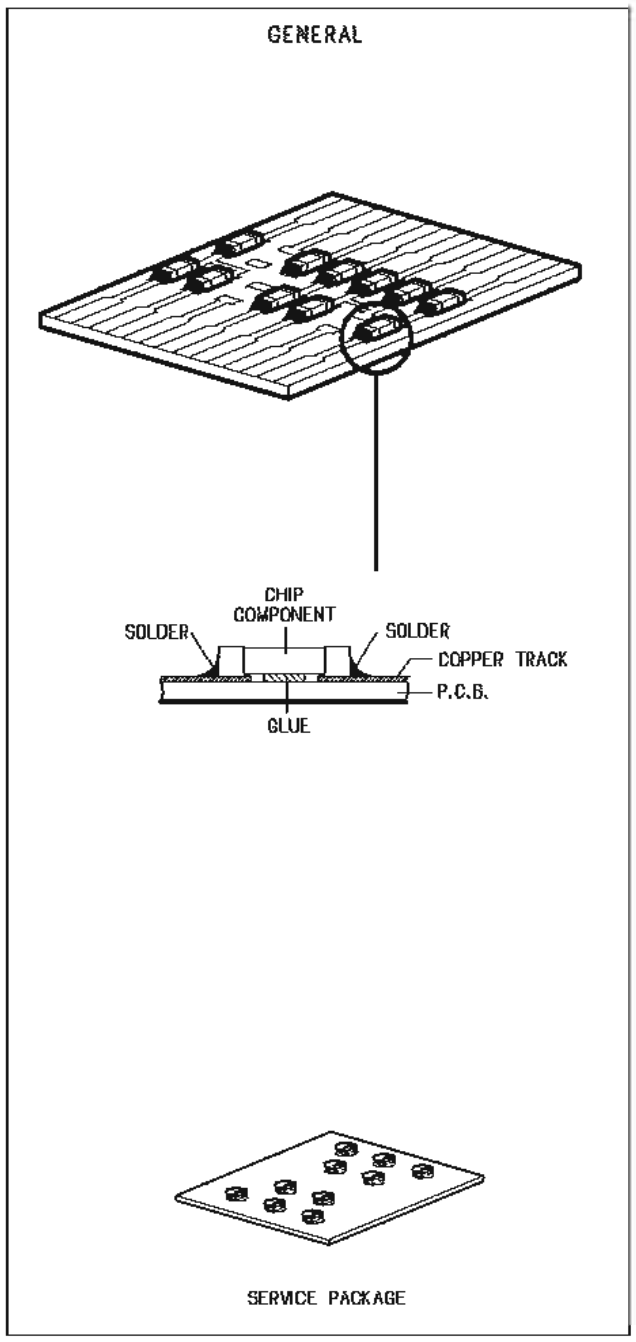
Ref. UL Standard No. 60065.

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

080702MZ

2. SERVICE HINTS AND TOOLS

SERVICE HINTS



SERVICE TOOLS

Audio signals disc	4822 397 30184 or TCD-784
Disc without errors +	
Disc with DO errors, black spots and fingerprints	4822 397 30245 (SBC444A) or TCD-726
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
DVD test disc (PAL)	4822 397 10131
DVD test disc (NTSC) ALMEDIO	TDV-540

WARNING AND LASER SAFETY INSTRUCTIONS

(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD)
Careless handling dunng repair can reduce life drastically
When repainng, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

ESD

(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD)
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise a leur manipulation
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller a ce que les composants ainsi que les outils que l'on utilise soient également a ce potentiel

(D) WARNUNG

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD)
Unsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern
Sorgen sie dafür, das Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevita potrebbe essere fortemente ndatta in caso di non osservazione della piu grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)

Safety regulations require that the set be restored to its onginal condition and that parts which are identical with those specified be used.

(D)

Bei jeder Reparatur sind die geltenden Sicherhertsvorschnften zu beachten.
Der Originalzustand des Gerats darf nicht verandert werden.
Fur Reparaturen sind Original-Ersatzteile zu verwenden

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt terug gebracht en dat onderdelen, identiek aan de gespecifieerde worden toegepast.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni onginali e che siano utilizzati pezzi di ricambiago identici a quelli specificati.

(F)

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agrees, seuls habilités à réparer votre appareil en panne."

Les normes de sécurité exigent que l'appareil soit remis a l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CLASS 1
LASER PRODUCT

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AVOID DIRECT EXPOSURE TO BEAM

WARNING

The use of optical instruments with this product will increase eye hazard.
Repair handling should take place as much as possible with a disc loaded inside the player

WARNING LOCATION: INSIDE ON LASER COVERSHIELD

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL Å PNES UNNGÅ EKSPONERING FOR STRÅLEN
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE ÄLÄ KATSO SÄTEESEEN
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

030804ecm

SPECIFICATIONS

❑ Audio performance

Signal format : NTSC, PAL

Applicable discs /memory cards :

(1) BD-Video discs :
12 cm 1 side 1 layer, 12 cm 1 side 2 layers

(2) DVD-Video / DVD-Audio discs :
12 cm 1 side 1 layer, 12 cm 1 side 2 layers /
12 cm 2 sides 2 layers (1 side 1 layer)
8 cm 1 side 1 layer, 8 cm 1 side 2 layers /
8 cm 2 sides 2 layers (1 side 1 layer)

(3) Super Audio CDs :
12 cm 1 layer / 12 cm 2 layer / 12 cm Hybrid

(4) Compact Discs (CD-DA) :
12 cm / 8 cm discs

(5) Memory cards :
SD Memory Card / SDHC Memory Card / miniSD Card /
microSD Card

S-Video output :
Y output level : 1 Vp-p (75Ω/ohms)
C output level : 0.300 Vp-p
Output terminal : S-Video, 1 set

Video output :
Output level : 1 Vp-p (75 Ω/ohms)
Output terminal : Pin-jack, 1 set

Component video output :
Y output level : 1 Vp-p (75 Ω/ohms)
Pb/Cb output level / Pr/Cr output level : 0.7 Vp-p (75 Ω/ohms)
Output terminal : Pin-jack, 1 set

HDMI output :
Output terminal : 19-pin HDMI terminals, 1 set
HDMI ver. 1.3a
(Deep Colour, Dolby Digital Plus, Dolby TrueHD, DTS-HD)

Analog audio output :
Output level : 2.3 Vrms (10 kΩ/kohms)
2 channels output terminal : Pin-jack, 1 set
7.1 channels output terminal : Pin-jack, 1 set

Audio output characteristics :

(1) Frequency response :
①BD (Multi linear PCM): 2 Hz ~ 22 kHz (48 kHz sampling)
: 2 Hz ~ 44 kHz (96 kHz sampling)
: 2 Hz ~ 88 kHz (192 kHz sampling)
②DVD (Multi linear PCM): 2 Hz ~ 22 kHz (48 kHz sampling)
: 2 Hz ~ 44 kHz (96 kHz sampling)
: 2 Hz ~ 88 kHz (192 kHz sampling)
③Super Audio CD : 2 Hz ~ 100 kHz
④Super Audio CD : 2 Hz ~ 20 kHz

(2) S/N ratio : 120 dB

(3) Total harmonic distortion : 1kHz 0.0015 %

(4) Dynamic range : 110 dB

(5) Channel separation : 110 dB

Digital audio output :
Optical digital output: Optical connector, 1 set
Coaxial digital output: Pin jack, 1 set

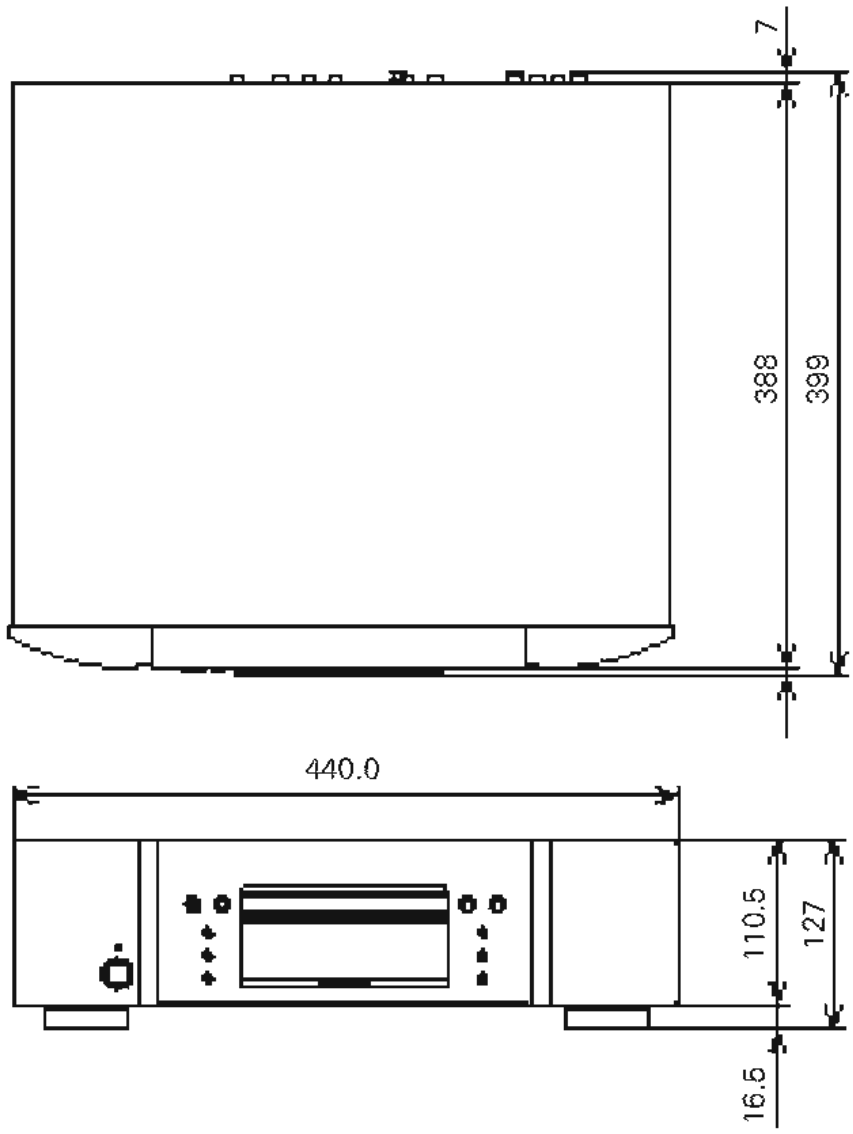
❑ General

Power supply : AC 230 V, 50/60 Hz

Power consumption : 55W

- When in Power Saving Standby : 0.3 W
- When in Normal Standby : 0.8 W
- When in Quick Start Mode :
  20 ~ 35 W (Changes according to connection status, etc.)

❑ Dimensions



❑ Weight : 8.5 kg

* For purposes of improvement, specifications and design are subject to change without notice.

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.

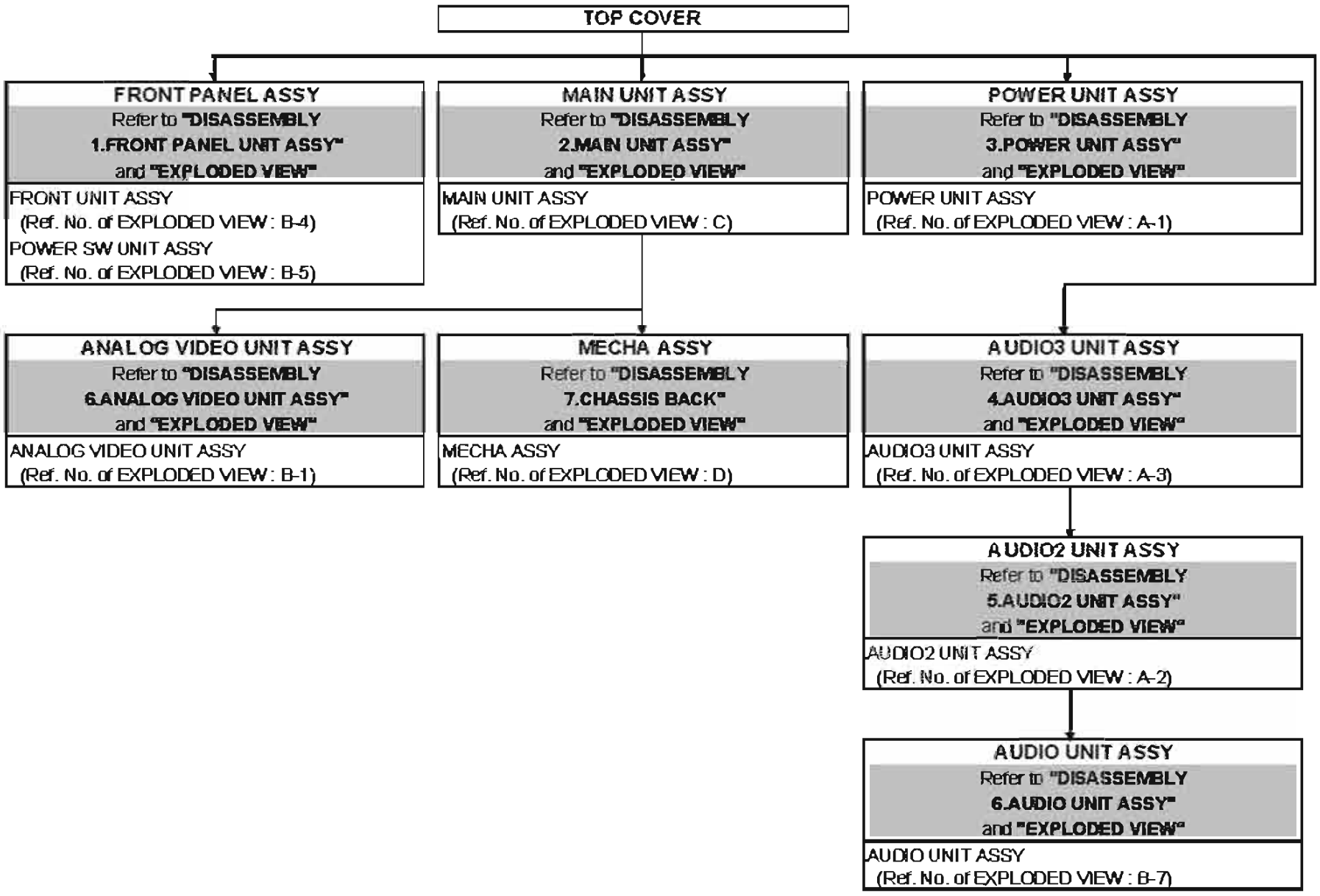
Wire arrangement viewed from the top

Front Panel side

Back Panel side

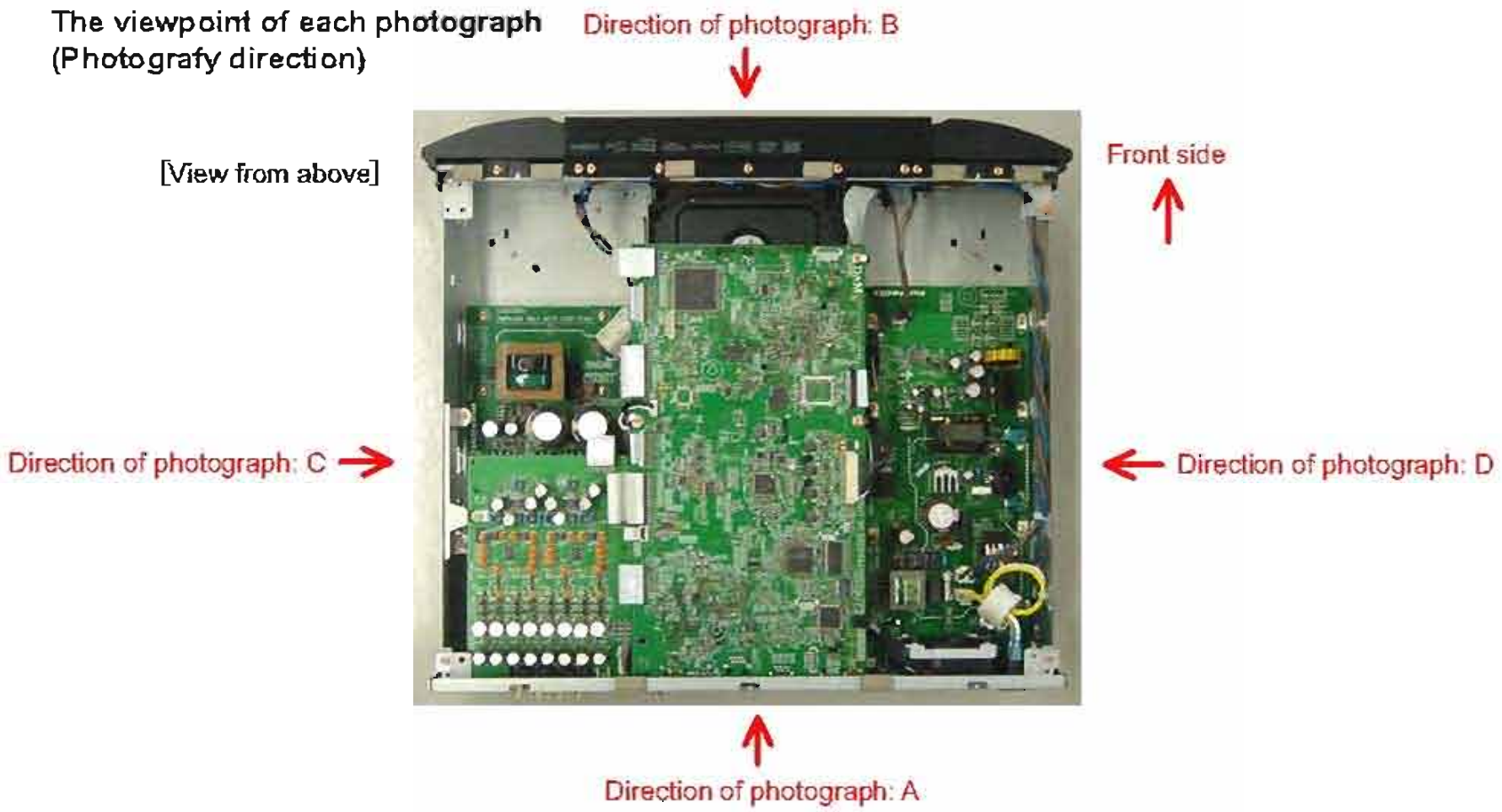
DISASSEMBLY

- 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.



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 photograph is UD8004.

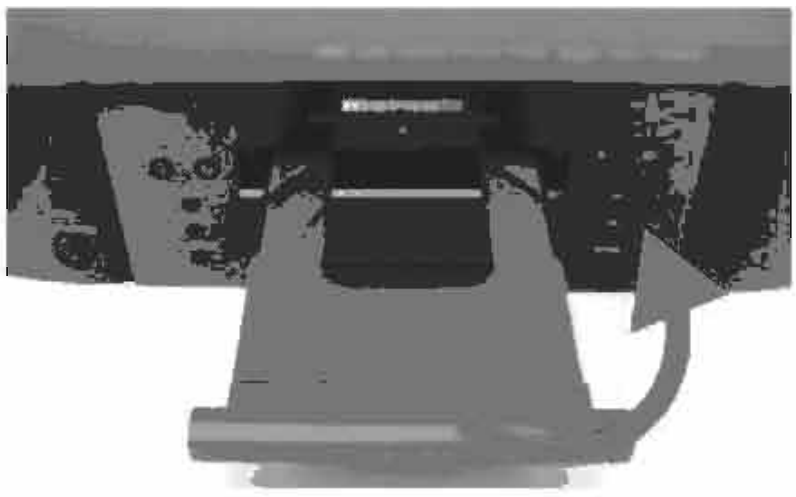


1. FRONT PANEL ASSY

Proceeding : TOP COVER → LOADER PANEL → FRONT PANEL ASSY

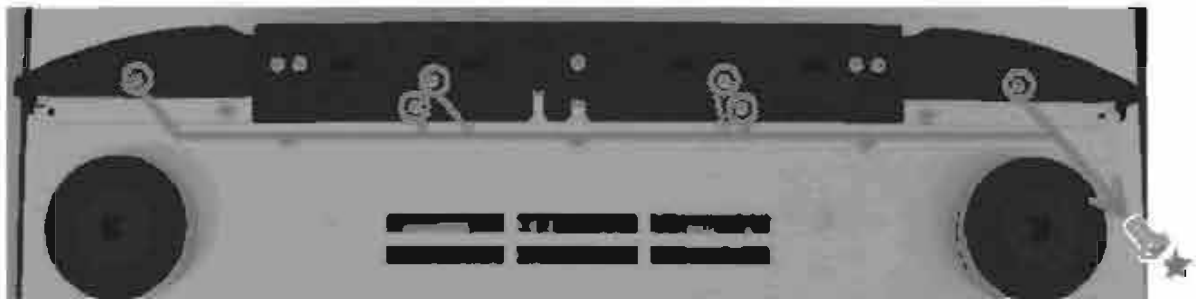
(1) Remove the Loadr Panel.

Direction of photograph: B

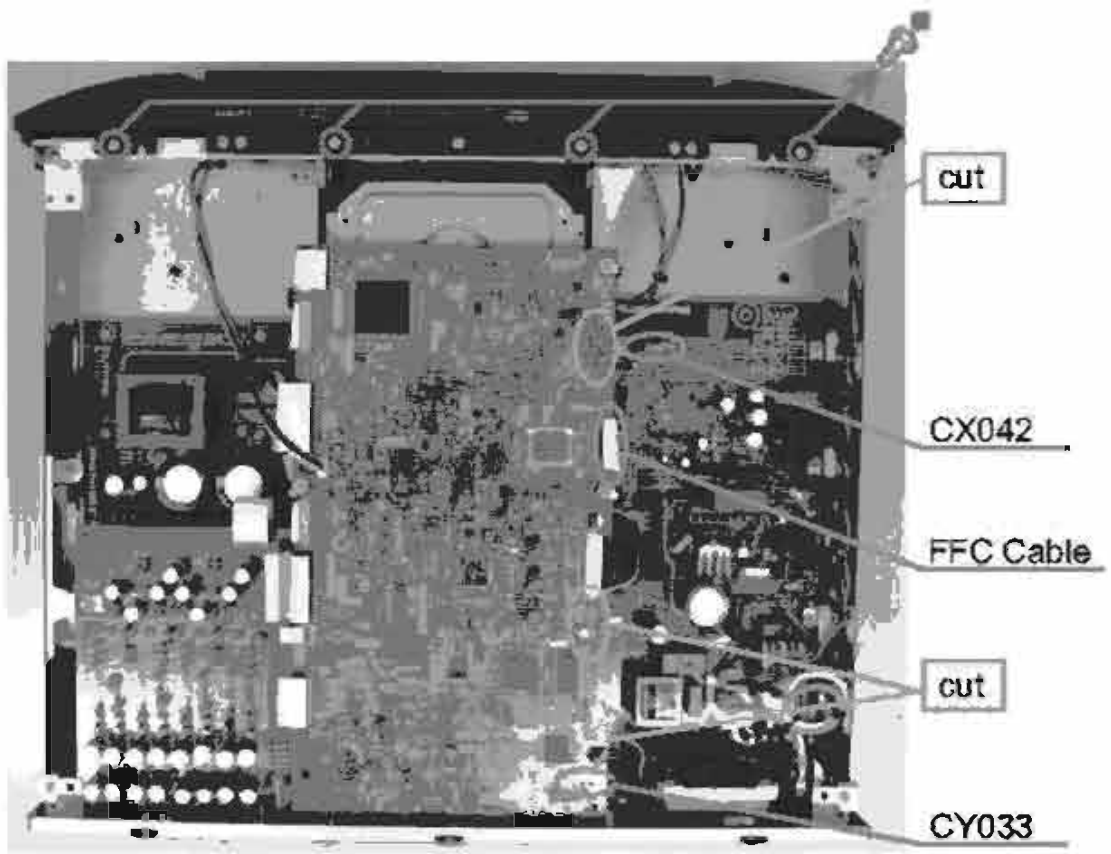


(2) Remove the screws.

View from bottom



(3) Cut the wire clampers. Disconnect the connector wire and FFC Cable.



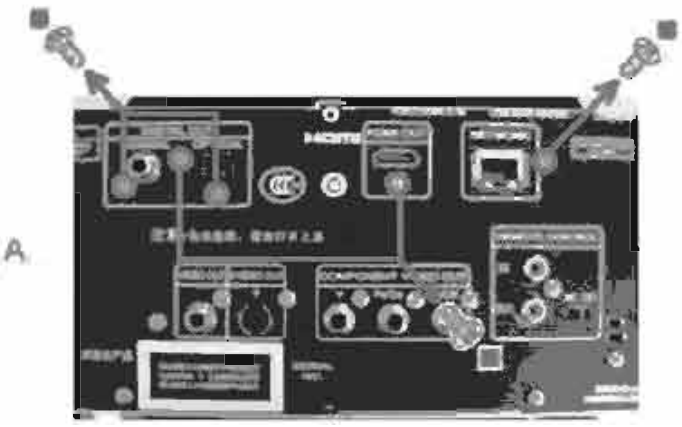
Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in FRONT PANEL ASSY.

2. MAIN UNIT SUB ASSY

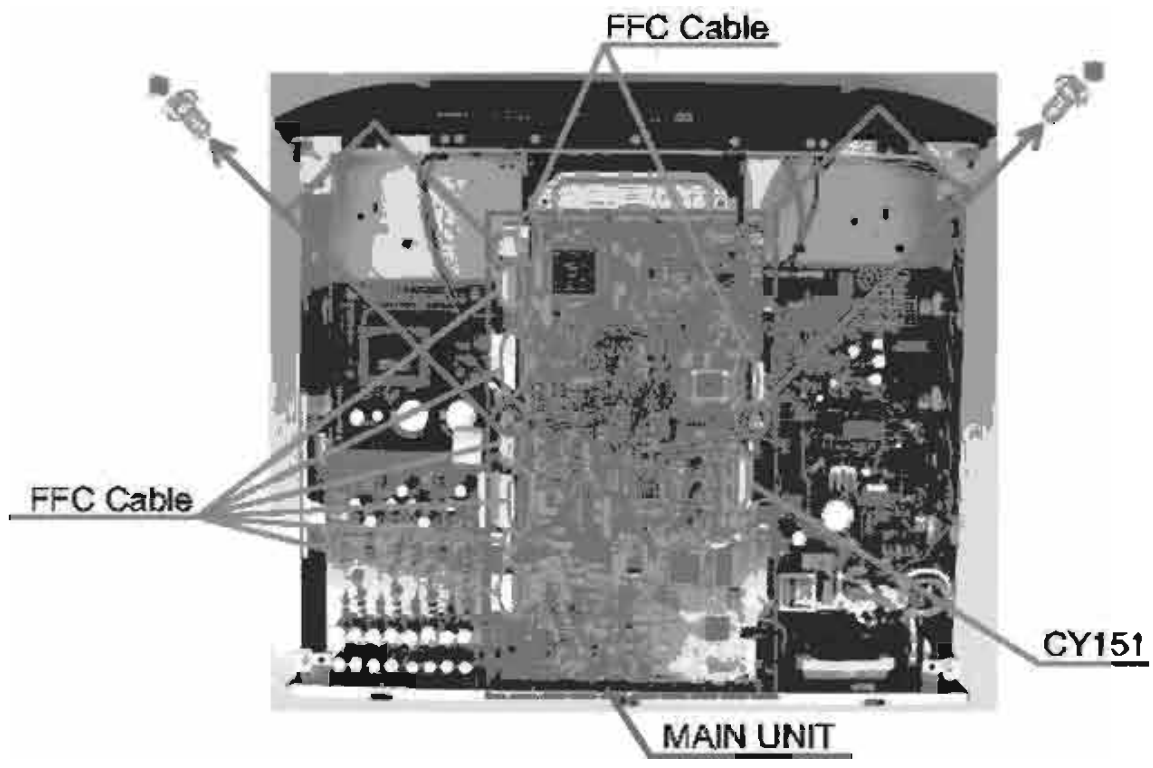
Proceeding : TOP COVER → MAIN UNIT ASSY

(1) Remove the screws.

Direction of photograph: A



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

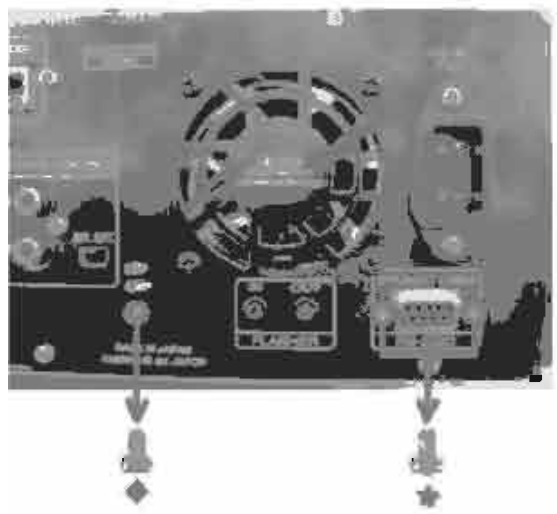


3. POWER UNIT ASSY

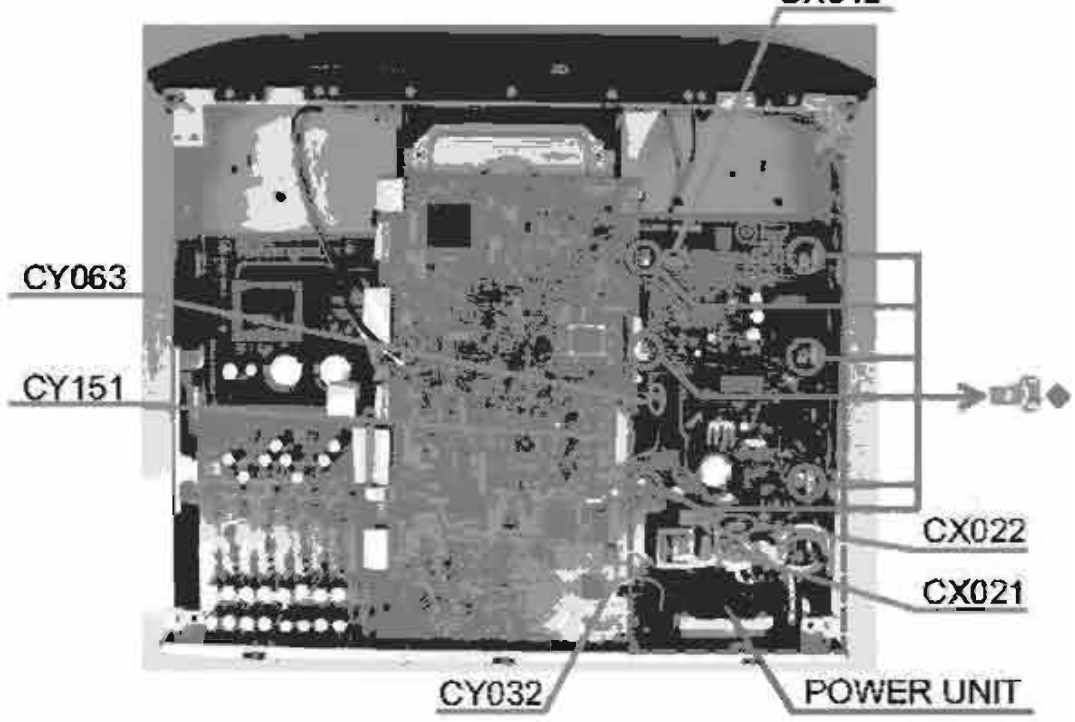
Proceeding : TOP COVER → POWER UNIT ASSY

(1) Remove the screws.

Direction of photograph: A



(2) Remove the screws. Disconnect the connector wire.



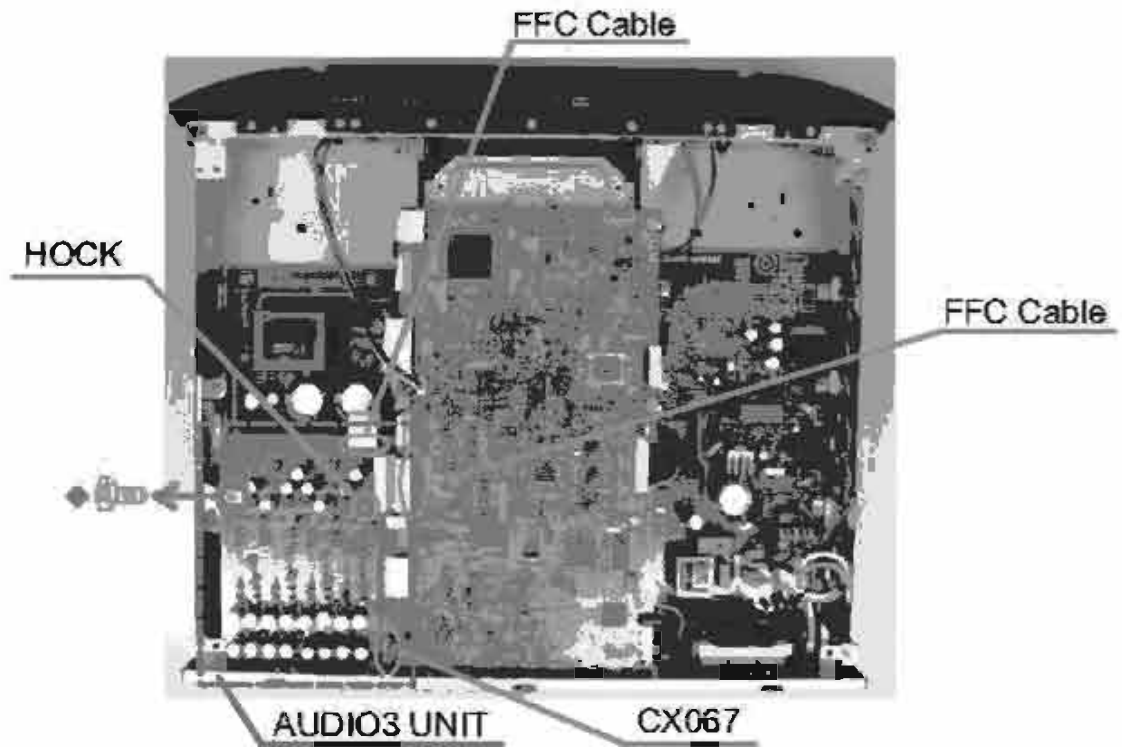
4. AUDIO3 UNIT ASSY

Proceeding : TOP COVER → AUDIO3 UNIT ASSY

(1) Remove the screws.

Direction of photograph: A

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



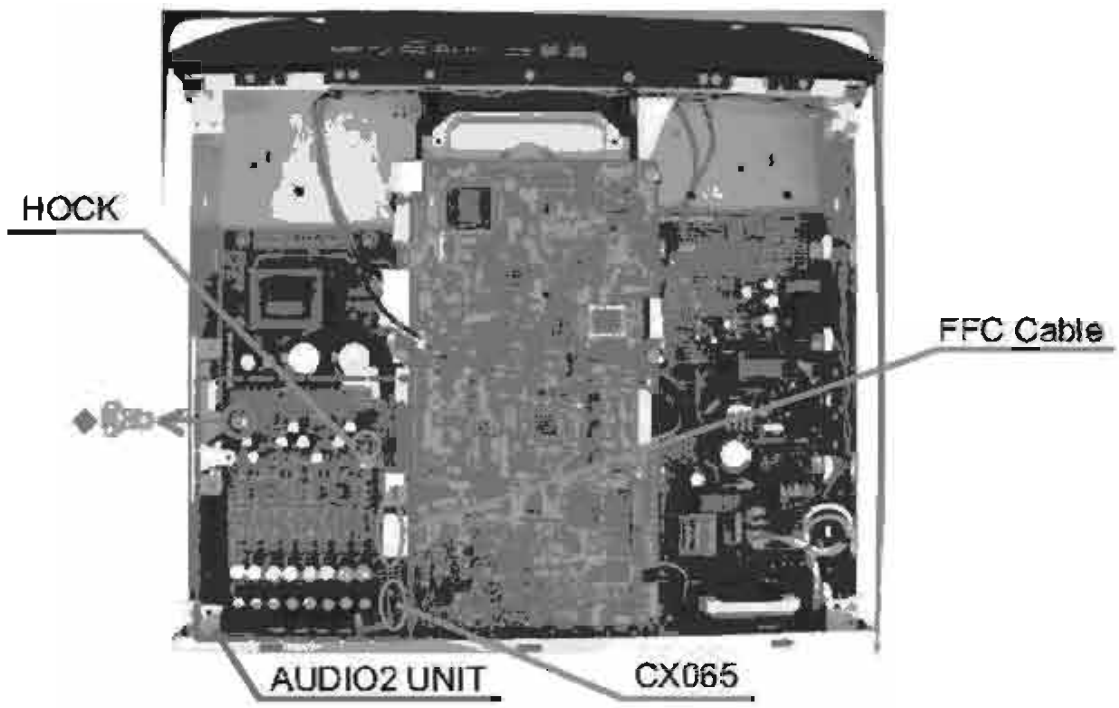
5. AUDIO2 UNIT ASSY

Proceeding : TOP COVER → AUDIO3 UNIT ASSY → AUDIO2 UNIT ASSY

(1) Remove the screws.

Direction of photograph: A

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



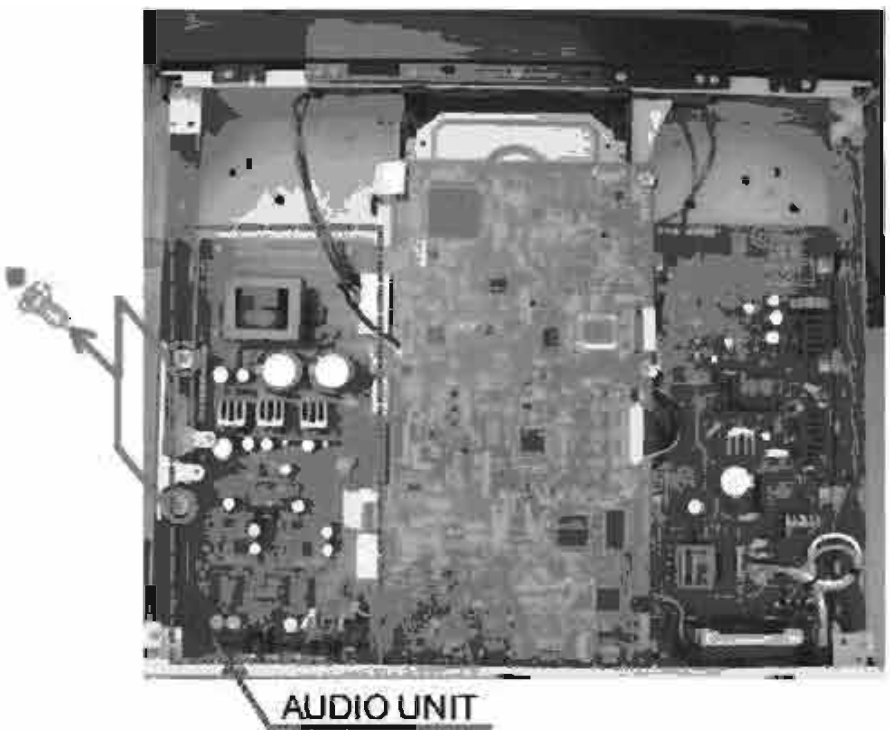
6. AUDIO UNIT ASSY

Proceeding : TOP COVER → AUDIO3 UNIT ASSY → AUDIO2 UNIT ASSY → AUDIO UNIT ASSY

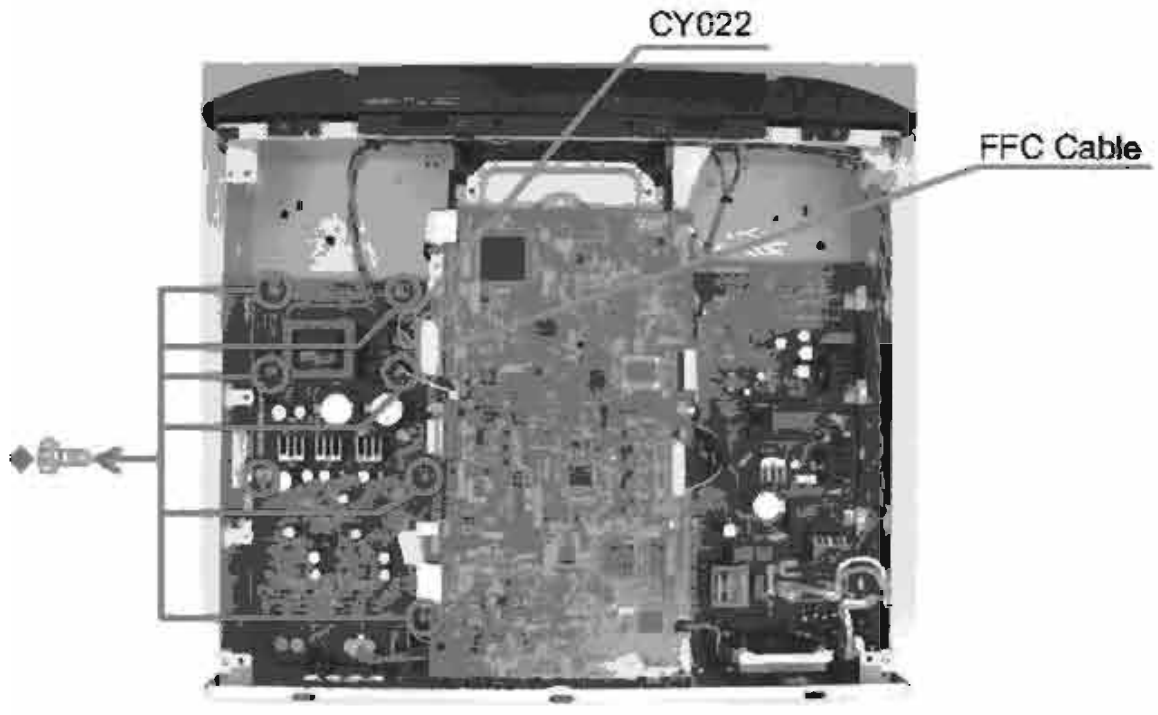
(1) Remove the screws.

Direction of photograph: A

(2) Remove the screws.



(3) Remove the screws.



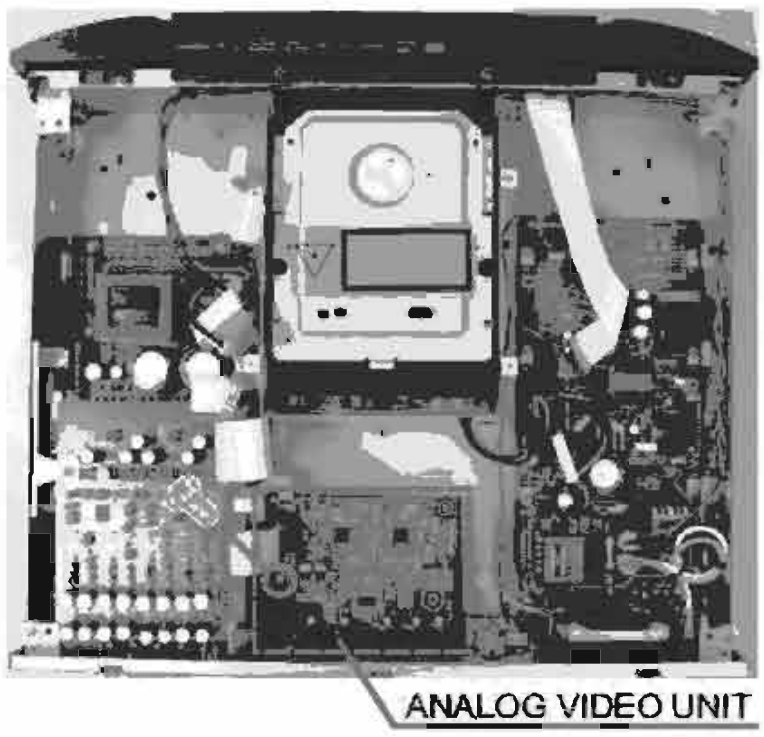
7. ANALOG VIDEO UNIT ASSY

Proceeding : TOP COVER → MAIN UNIT ASSY → **ANALOG VIDEO UNIT ASSY**

(1) Remove the screws.

Direction of photograph: A

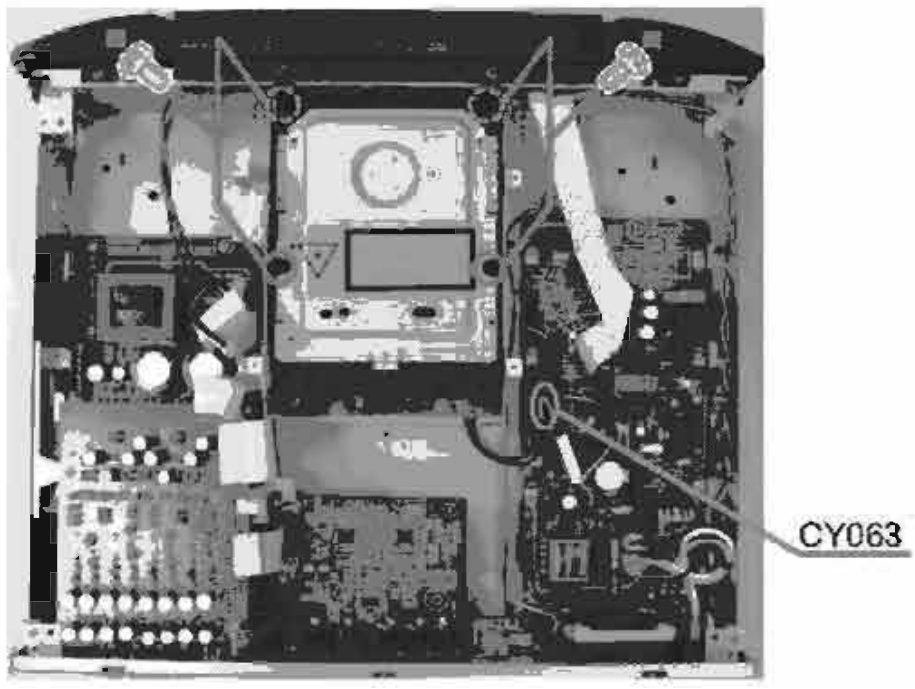
(2) Remove the screws.



8. MECHA ASSY

Proceeding : TOP COVER → MAIN UNIT ASSY → **MECHA ASSY**

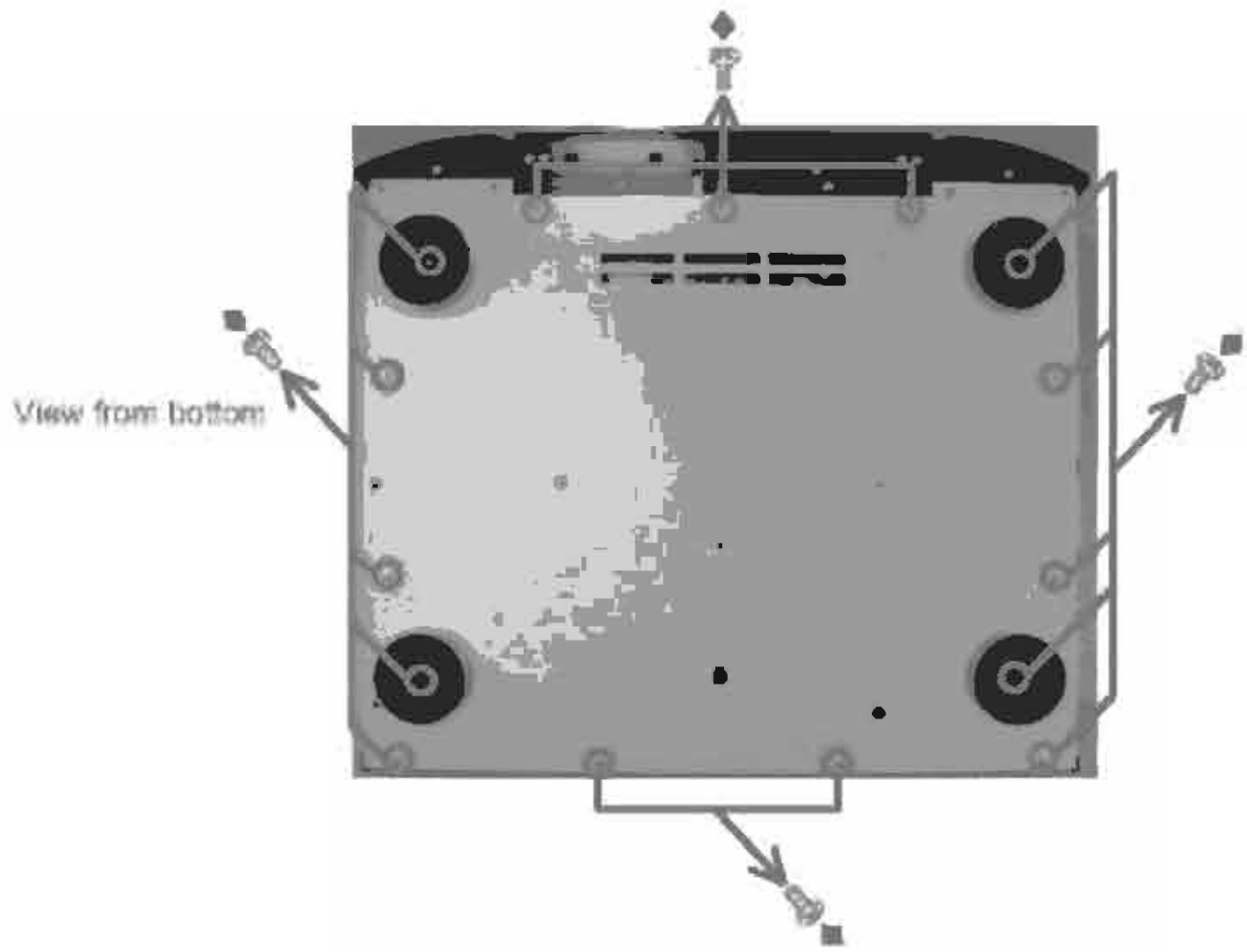
(1) Remove the screws. Disconnect the connector wire.



Removing discs

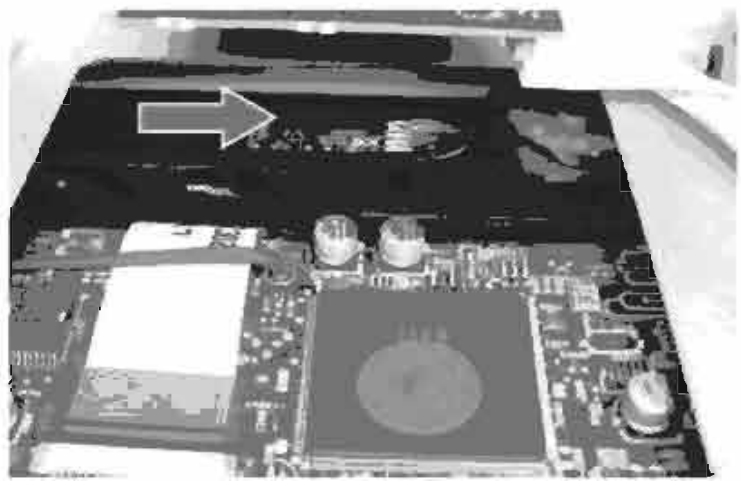
Proceeding : INSIDE PLATE → SLIDE CAM

(1) Remove the screws and FOOTs.



(2) Slide the SLIDE CAM in the direction of the arrow.

Direction of photograph: A



(3) Draw out the LOADER TRAY, then remove the disc.

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

Make failure diagnostics of the Optical Pickup as follows.
If 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.
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	—	m	m	m	m

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	—	m	m	m	m

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	—	m	m	m	m

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	—	m	m	m	m

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

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 19 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

<Playback mode>

(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 once. The "►" and "❚❚" indicators blink at the same time 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.

<Tray open/close mode>

(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 twice. The "►" and "❚❚" indicators blinks alternately and heat run operation starts.

CD/DVD/BD : After disc loading is complete, the tray opens and closes automatically, and disc loading is carried out again.

(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.

※ If the PURE DIRECT button is pressed during heat run, the repeat count of heat run operations is displayed as (Cnt *********). Press the PURE DIRECT button once more and the display returns to its original state.

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 UD8004's power. "NO DISC" is displayed on the fluorescent tube.

(2) Press the UD8004's PLAY, EJECT and SOUND MODE buttons simultaneously. "INITIALIZING" is displayed on the fluorescent tube.

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

3. µcom firm, H/W version, and Sereal number 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, version information of µcom firm, version of H/W and serial number is displayed one after another.
Ex.: [Sys Ver000103, Sys Day090219, Sys GEN100000....., H/W Ver000000, S/N **********]

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 and tray opening/closing is invalidated.

[Cancel]

(1) Unplug the UD8004'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.

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

5. All Lit / All Off mode for the FL tube

5.1. preparation

(1) Equipment used: None

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

5.2. procedure

[Setting]

(1) Pressing the HDMI RESOLUTION and ► buttons for simultaneously, plug the AC cord into a power outlet.
If All Lit / All Off mode is set for the FL tube, the FL tube's display area is fully lit.

(2) Press the Pure Direct button to switch between 'all lit' and 'all off' display.

[Cancel]

(1) Remove the power cable for 5 seconds or more to cancel All Lit / All Off mode for the FL tube.

6. Forced Tray Open mode.

7.1. preparation

(1) Equipment used: None

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

※ Operation cannot be guaranteed after executing Forced Tray Open mode.

6.2. procedure

[Setting]

(1) To forcibly open the tray, press the ⏏ for 5 seconds or more.

[Cancel]

(1) Remove the power cable for 5 seconds or more to cancel Forced Tray Open mode.

7. Test mode

7.1. 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.

7.2. 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 ►►I 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 I◄◄ 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 ...").

7.3. 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 1 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		m	m	m	m

(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 "7.4 Stopping the mode" (page 21).

(2) Servo adjustment value display mode

Press the |◀◀ or ▶▶| button to select [XXX]. Refer to [Table 1 - Servo adjustment value display mode details] (page 21).

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: Details of the servo adjustment value display mode" (page 21) 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 "7.4 Stopping the mode" (page 21).

(3) Error rate measurement mode

Press the |◀◀ or ▶▶| button to select [YY] .
Refer to [Table 2 - Error rate details]. (page 22)

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 22).

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 "7.4 Stopping the mode" (page 21).

(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

(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 "7.4 Stopping the mode" (page 21)

---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	C	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 |◀◀ or ▶▶| 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 "7.4 Stopping the mode" (page 21).

(6) Picking up No. display mode

Press the |◀◀ or ▶▶| 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 "7.4 Stopping the mode" (page 21).

(7) Error log display mode

Press the |◀◀ or ▶▶| 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 24).

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 "7.4 Stopping the mode" (page 21).

(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 "7.4 Stopping the mode" (page 21).

7.4. 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	TYYFFFFFFFFF	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

7.5. About the OPEN/CLOSE (5)button

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

7.6. 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

No	XXX	Name	Address range	Meaning
31	T56	BUF_ID_SVO_SVRAM	0x000000 ~ 0x0005FF	SVRAM
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 SOUND MODE (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.

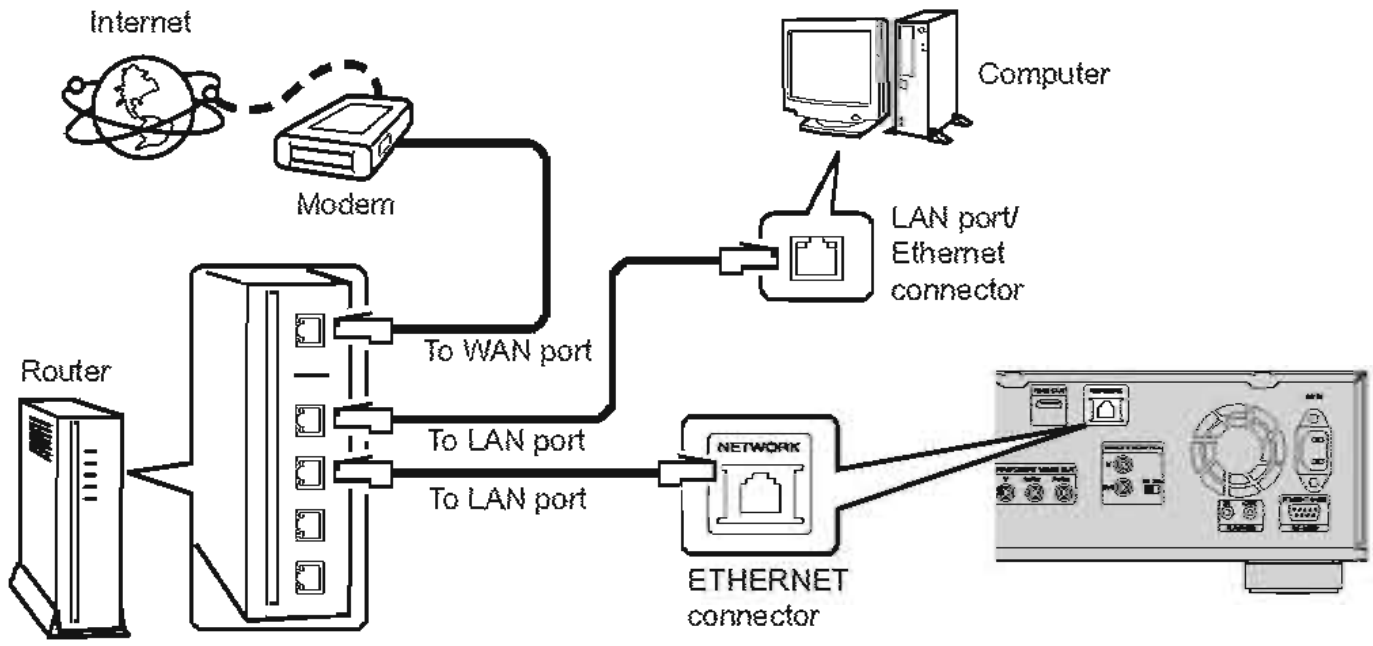
1. Update from the Internet

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 lights green 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 UD8004 cannot be performed until updating is completed. Also, setting items of the GUI menu of DVD-A1UD or setting items of the image adjustment may be initialized.
Make a note of the settings before updating, and set them again after updating.

TROUBLE SHOOTING

1. 8U-210095-7 (AUDIO UNIT)/ 8U-210094-2 (AUDIO2 UNIT)/ 8U-210094-3 (AUDIO3 UNIT)

Check connection B/E PWB UNIT
8U-310041(B/E UNIT)
・[CX331] input signal.
・[CX332] input signal.

N.G. →

Check Soldering, FFC cable
・[CX331]:8U-310041
・[CX332]:8U-310041
・Check FFC cable insertion

↓ O.K.

Check DATA Signal
8U-210095-7(AUDIO UNIT)
・[IC301](DAC for 2ch(Mix) L/R)
1,2,4,6,7pin(WCK=16/8/4fs,
BCK=512/256/128fs,
DATA,MCK=512/256/128fs)

8U-210094-2(AUDIO2 UNIT)
・[IC601](DAC for FL/FR)
・[IC701](DAC for C/SW)
1,2,4,6,7pin(WCK=16/8/4fs,
BCK=512/256/128fs,
DATA,MCK=512/256/128fs)

8U-210094-3(AUDIO3 UNIT)
・[IC801](DAC for SL/SR)
・[IC901](DAC for SBR/SBL)
1,2,4,6,7pin(WCK=16/8/4fs,
BCK=512/256/128fs,
DATA,MCK=512/256/128fs)

N.G. →

Check Soldering, FFC cable
・[CY331][CX211]:8U-210095-7
・[CY211][CY178]:8U-210094-2
・[CY332][CX178]:8U-210094-3
・Check FFC cable insertion

↓ O.K.

Check DAC output
8U-210095-7(AUDIO UNIT)
・[IC301]:output

8U-210094-2(AUDIO2 UNIT)
・[IC601][IC701]:output

8U-210094-3(AUDIO3 UNIT)
・[IC801][IC901]:output

N.G. →

Check Soldering
・[IC301][IC601][IC701]
10,11,12pin(control line)
・[IC801][IC901]
10,11,12pin(control line)

Check Power Supply Voltage
・[CX061][CX062]:8U-210095-7
1pin:about+11V/ 3pin:about-11V,
5pin:about+5V/ 6pin:about+3.3V
・[CY062]:8U-210094-2
1pin:about+11V/ 3pin:about-9V,
5pin:about+5V/ 6pin:about+3.3V
・[CY061]:8U-210094-3
1pin:about+11V/ 3pin:about-9V,
5pin:about+5V/ 6pin:about+3.3V

・Check cable insertion, and soldering

・Check Fuse
F301-F304

↓ O.K.

Check AMP・OP AMP output
8U-210095-7(AUDIO UNIT)
・[IC302][IC306][IC303][IC307]
・Connections of [R415] and [R417]
・Connections of [R364] and [R366]

8U-210094-2(AUDIO2 UNIT)
・[IC605][IC604][IC606]
・Connections of [R679] and [R681]
・Connections of [R680] and [R682]
・[IC602][IC603][IC607]
・Connections of [R783] and [R785]
・Connections of [R778] and [R780]

8U-210094-3(AUDIO3 UNIT)
・[IC802][IC803][IC804]
・Connections of [R891] and [R893]
・Connections of [R892] and [R894]
・[IC902][IC903][IC904]
・Connections of [R967] and [R969]
・Connections of [R966] and [R968]

N.G.

Check Soldering
・[IC302][IC306][IC303][IC307]
・[IC605][IC604][IC606]
・[IC602][IC603][IC607]
・[IC802][IC803][IC804]
・[IC902][IC903][IC904]

POWER C,R, TR

O.K.

Check OUTPUT terminal
8U-210095-7(AUDIO UNIT)
・Check output signal from OUTPUT terminal
(Each channels)

8U-210094-2(AUDIO2 UNIT)
・Check output signal from OUTPUT terminal
(Each channels)

8U-210094-3(AUDIO3 UNIT)
・Check output signal from OUTPUT terminal
(Each channels)

N.G.

Check Soldering
MUTE circuit:MUTE TR
8U-210095-7(AUDIO UNIT)
・TR325～TR328

8U-210094-2(AUDIO2 UNIT)
・TR628～TR631
・TR730,TR732,TR733,TR735,

8U-210094-3(AUDIO3 UNIT)
・TR829～TR832,TR925～TR928

TR-BASE terminal:about-12V(at MUTE off)
・Check Soldering, Output terminal

O.K.

END

2. 8U-210094-1 (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-406)
・[IC102] (STR-Y6453 (100V sytem))
(STR-Y6473 (200V sytem))
・[T101] (SW_TRANS)

and Other Circuits

↓O.K.

Check +6V_NSW output
・Voltage Check
+6V DC (non-switched) Voltage is O.K.?
[CX151] 13pin
※ Range from 6 to 16V

N.G. →

Check Parts and Soldering.
・[T102] (POWER_TRANS)
・[D110～D113] (RB521S)

and Other Circuits

↓O.K.

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

N.G. →

Check Parts and Soldering.
8U-310041 (MAIN UNIT)
・[IC921] (BA33B00FP)

and Other Circuits

↓O.K.

Check CLK_50/60 output
・Voltage Check
[CX151] 6pin output
(AC50Hz 100Hz)
(AC60Hz 120Hz)

N.G. →

Check Parts and Soldering.
・[T102] (POWER_TRANS)
・[D108,D109] (RB521S)
・[TR102] (KTC3875S)

and Other Circuits

↓O.K.

ON/STANDBY Input
・Voltage Check
[CX151] 7pin 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-SAN)
8U-310041 (MAIN UNIT)
・[IC853] (R5F364VDNFB)

and Other Circuits

↓O.K.

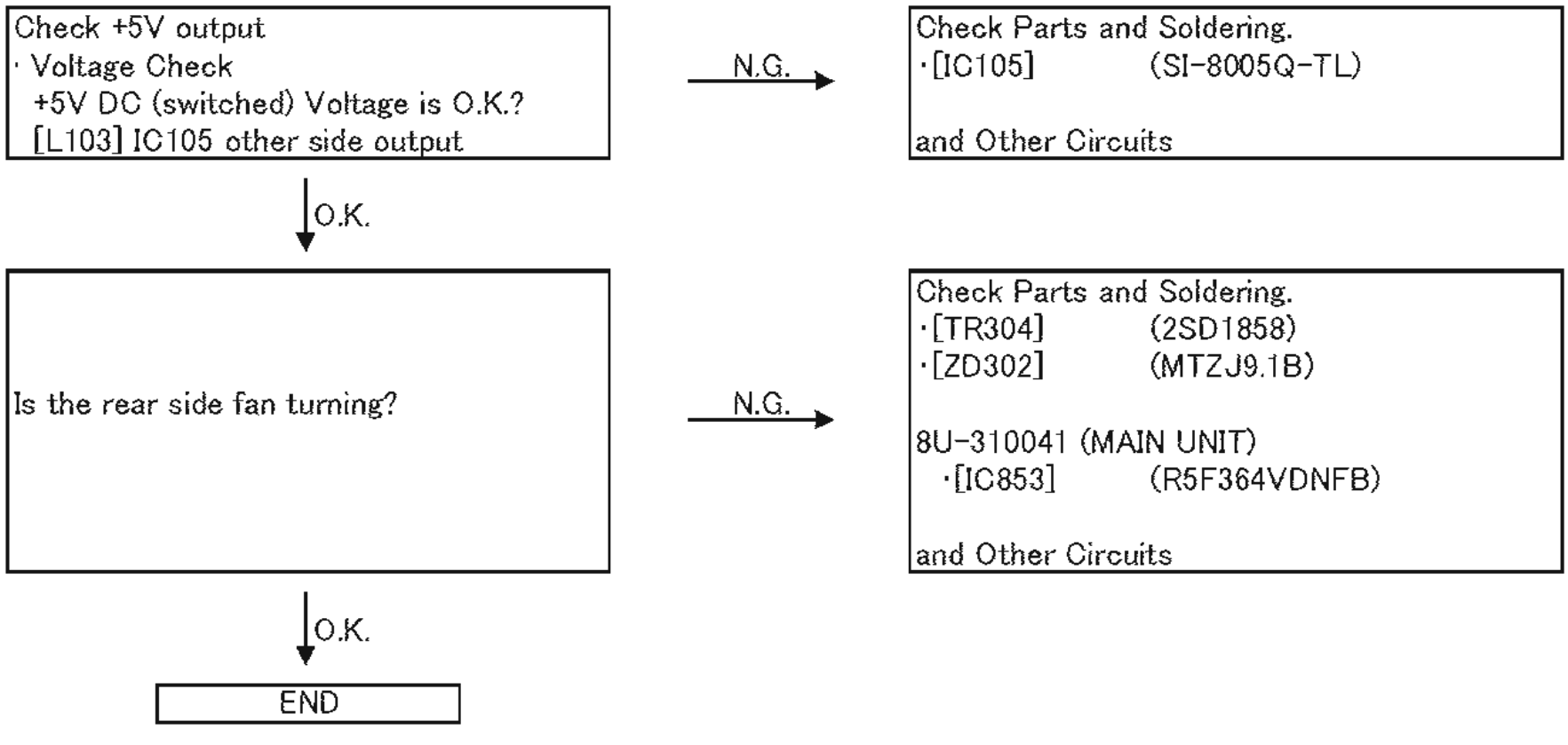
Check Power Relay
・Is [RL101] switched?

N.G. →

Check Parts and Soldering.
・[TR105] (KTC3199)

and Other Circuits

↓O.K.


Check +5V output
· Voltage Check
+5V DC (switched) Voltage is O.K.?
[L103] IC105 other side output
N.G.
Check Parts and Soldering.
·[IC105] (SI-8005Q-TL)
and Other Circuits
O.K.
Is the rear side fan turning?
N.G.
Check Parts and Soldering.
·[TR304] (2SD1858)
·[ZD302] (MTZJ9.1B)
8U-310041 (MAIN UNIT)
·[IC853] (R5F364VDNFB)
and Other Circuits
O.K.
END

3. 8U-210095-4 (FRONT UNIT)

3.1. FL TUBE dosen't light

Check ± F output (5V)
· [CY042] 3-4pin

N.G. →

Check Parts and Soldering.
・[FL101]
(FL-TUBE(15-BT-114GNK)

8U-210094-1 (POWER UNIT)
・[T101] (SW_TRANS)
・[D104] (AL01Z)
・[ZD105] (MTZJ3.6B)

and Other Circuits

↓O.K.

Check -32V output
· Voltage Check
-32V DC (non-switched) Voltage is O.K.?
[CY042] 2pin output

N.G. →

Check Parts and Soldering.
・[IC101] (PT6302-SSOP)

8U-210094-1 (POWER UNIT)
・[T101] (SW_TRANS)
・[TR103] (2SB562)
・[ZD104、ZD107] (MTZJ16B)
・[D106] (AL01Z)

and Other Circuits

↓O.K.

Check +3.3V output
· Voltage Check
3.3V DC (switched) Voltage is O.K.?
[CY241] 18pin output

N.G. →

Check Parts and Soldering.
・[IC101] (PT6302-SSOP)
・[CY241] (24P-FMN)
・FFC cable

and Other Circuits

↓O.K.

Check Parts and Soldering.
・[IC101] (PT6302-SSOP)
・[FL101]

8U-210095-4 (FRONT UNIT)
・[CY241] (24P-FMN)
・FFC cable

・[CY241] (24P FMN)
(FL-TUBE(15-BT-114GNK))

8U-310041 (MAIN UNIT)
・[IC853] (R5F364VDNFB)

and Other Circuits

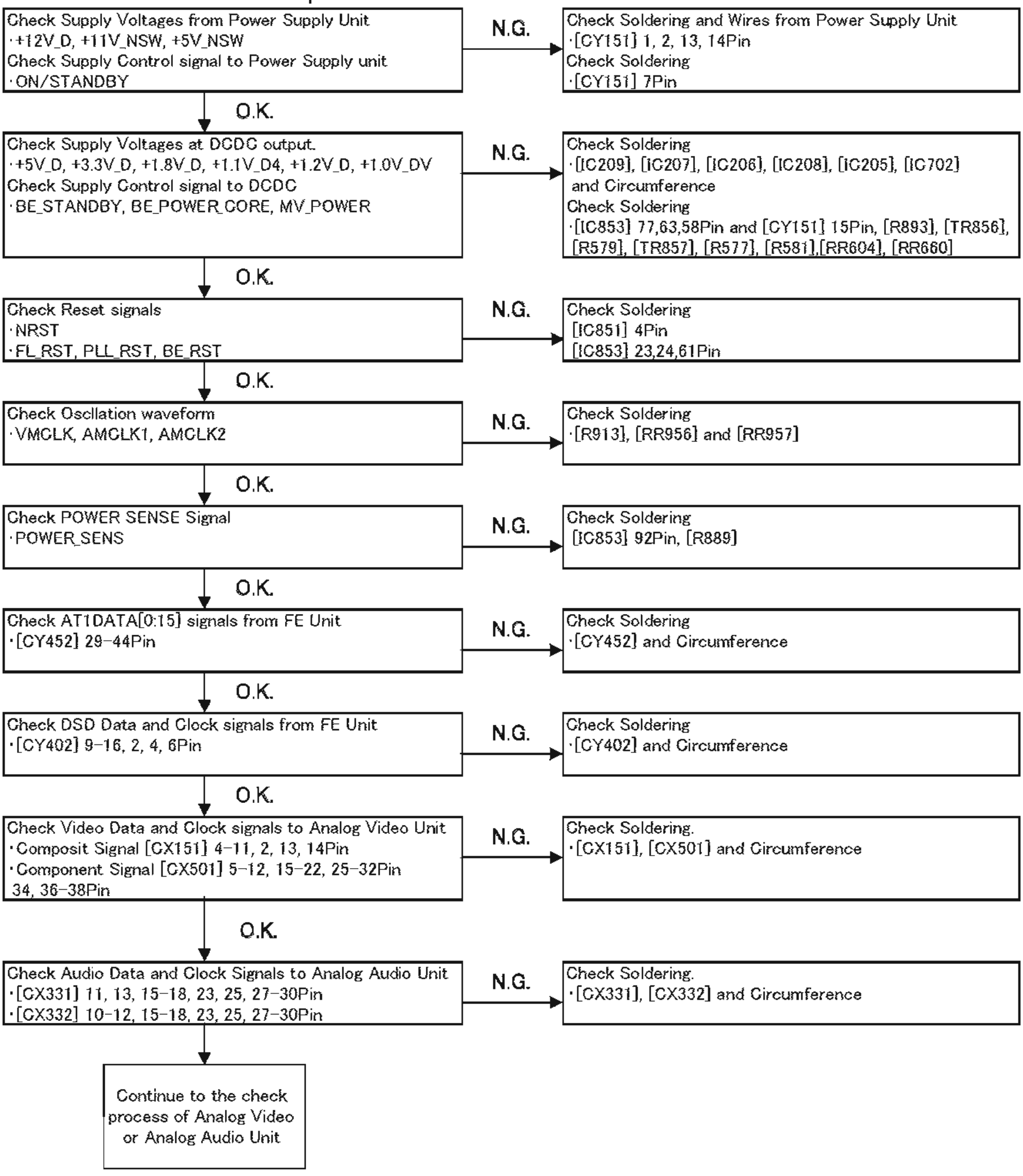
↓O.K.

END

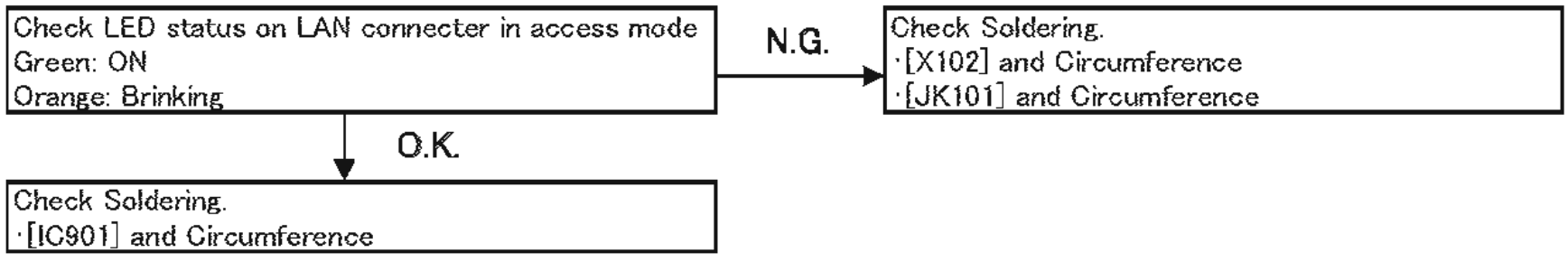
4. 8U-310041 (MAIN UNIT)

4.1. No System Power up or Loading

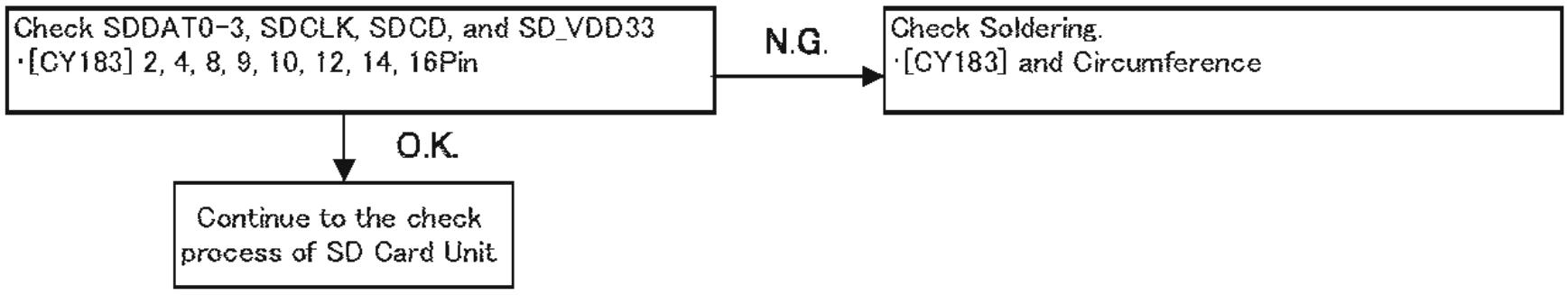
No Video or Audio Output



4.2. No Ether-net Operation

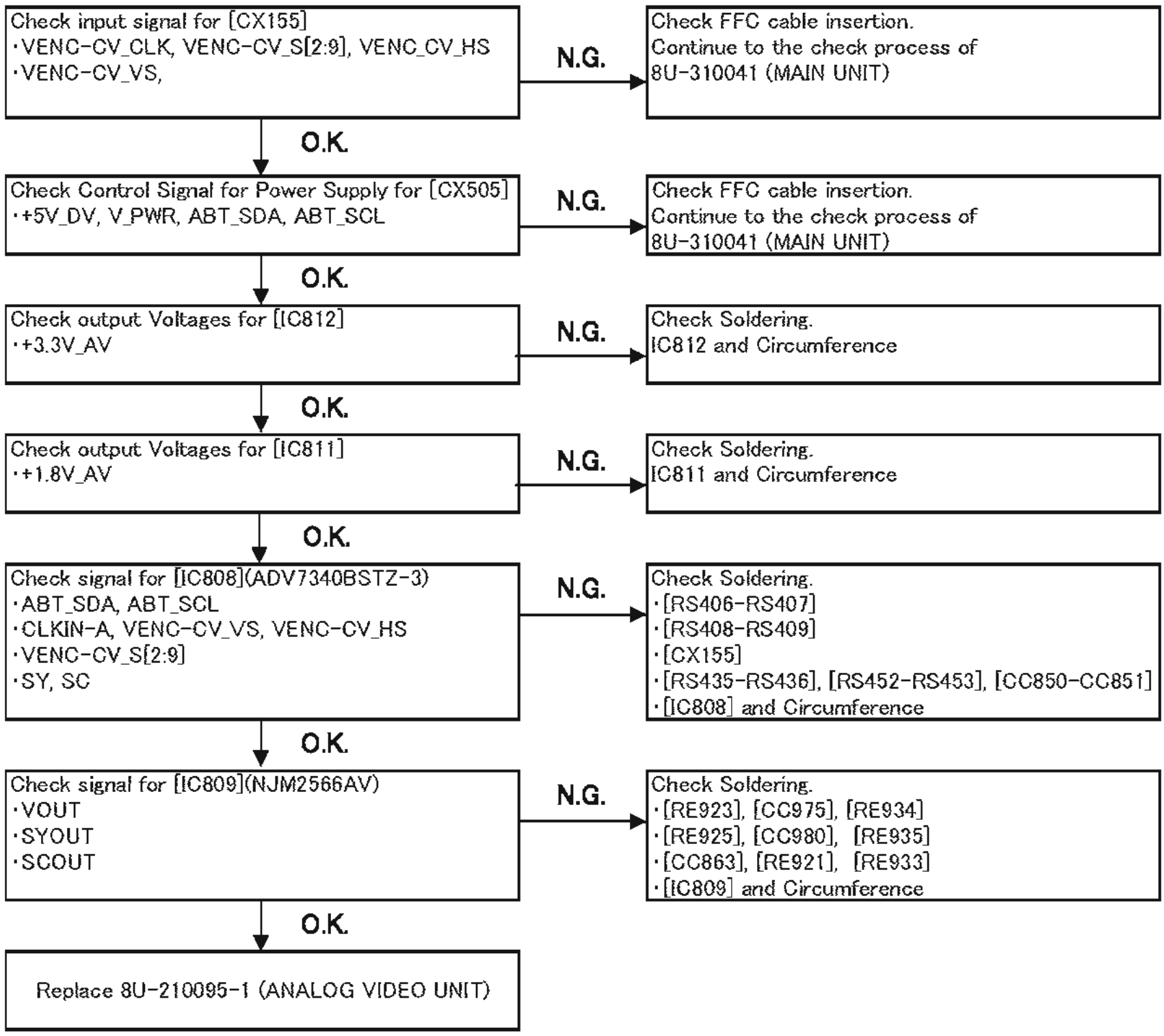


4.3. No SD Card Operation

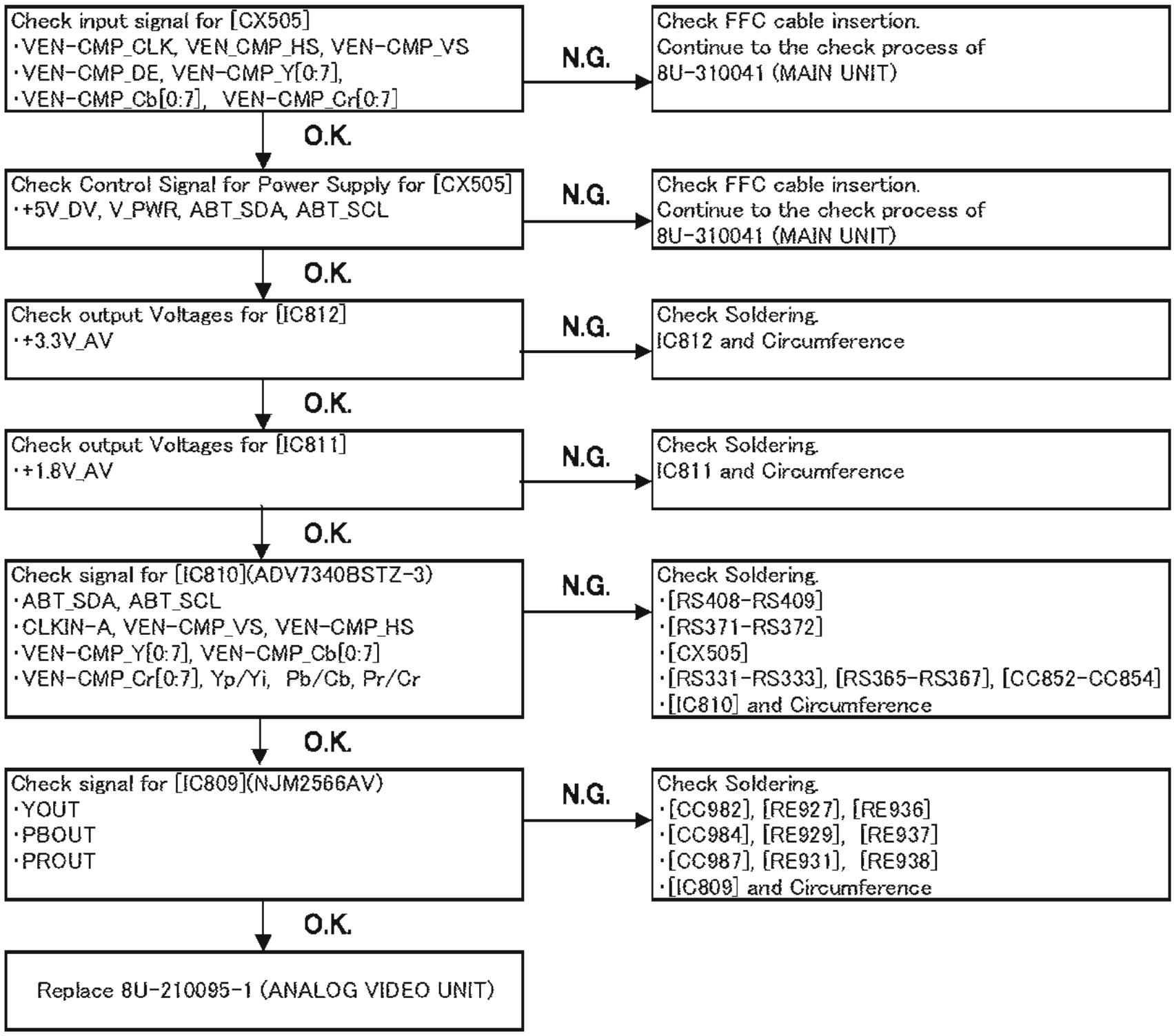


5. 8U-210095-1 (ANALOG VIDEO UNIT)

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



5.2. Component Out does not be outputted



6. 8U-310037 (FE/SACD UNIT)

6.1. BD or DVD or CD or SACD check

Check HF signal
8U-310037 (FE/SACD UNIT)
MEASURING METHOD AND WAVEFORMS
· Ceck ①HF Waveform

NG → Defect of primary circuit component.
8U-310037 (FE/SACD UNIT)
· [IC100][CX451] and Other Circuits

↓OK

Check MUTE signal
8U-310037 (FE/SACD UNIT)
· [IC100] 34pin [CTL2]: "H" level?

NG → Check Parts and Soldering.
8U-310037 (FE/SACD UNIT)
· [IC100][IC151] and Other Circuits

↓OK

Check signal of Focus system
MEASURING METHOD AND WAVEFORMS
· Check ②~④,⑤~⑥.

NG → Check Parts and Soldering.
8U-310037 (FE/SACD UNIT)
· [IC100][IC151][CX451] and Other Circuits

↓OK

Check signal of Tracking system
MEASURING METHOD AND WAVEFORMS
· Check ⑧~⑩.

NG → Check Parts and Soldering.
8U-310037 (FE/SACD UNIT)
· [IC100][IC151][CX451] and Other Circuits

↓OK

Check signal of Spindle system
MEASURING METHOD AND WAVEFORMS
· Check ⑪, ⑫.

NG → Check Parts and Soldering.
8U-310037 (FE/SACD UNIT)
· [IC100][IC151][CX182] and Other Circuits

↓OK

Check signal of Thread system
MEASURING METHOD AND WAVEFORMS
· Check ⑬~⑭.

NG → Check Parts and Soldering.
8U-310037 (FE/SACD UNIT)
· [IC100][IC151][CX182] and Other Circuits

↓OK

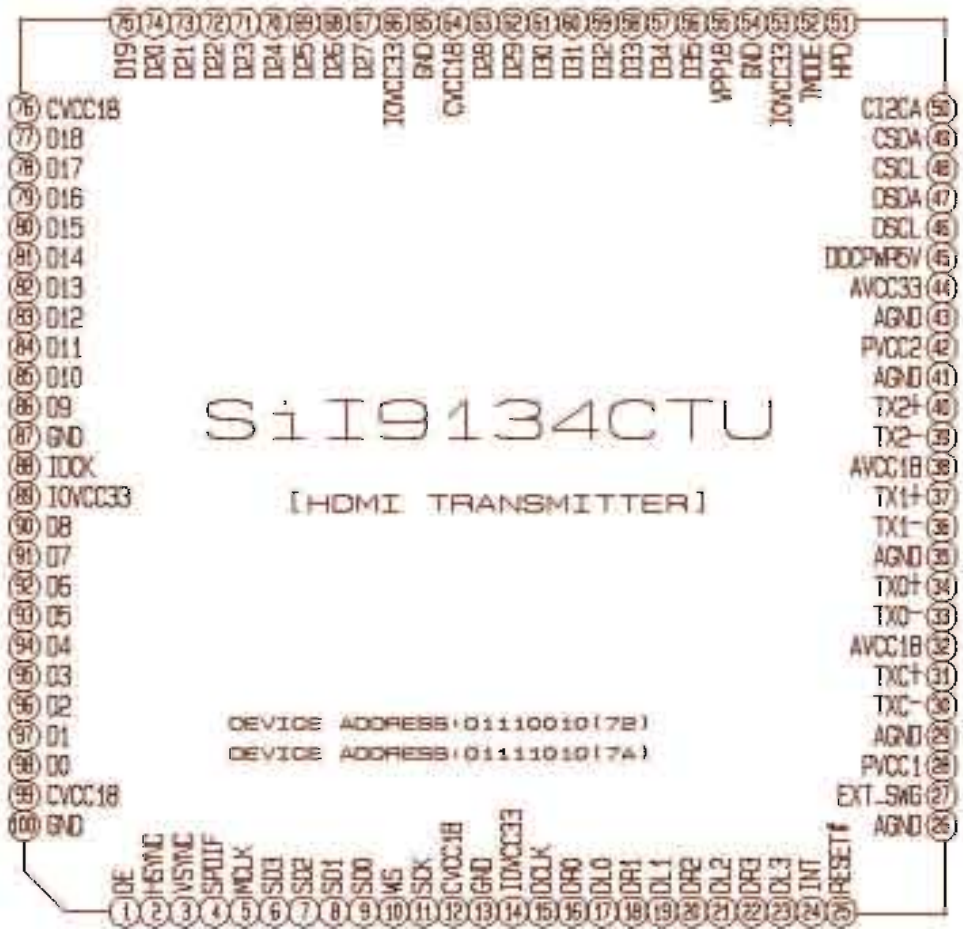
Continue to the check process of
MAIN UNIT 8U-310041

SEMICONDUCTORS

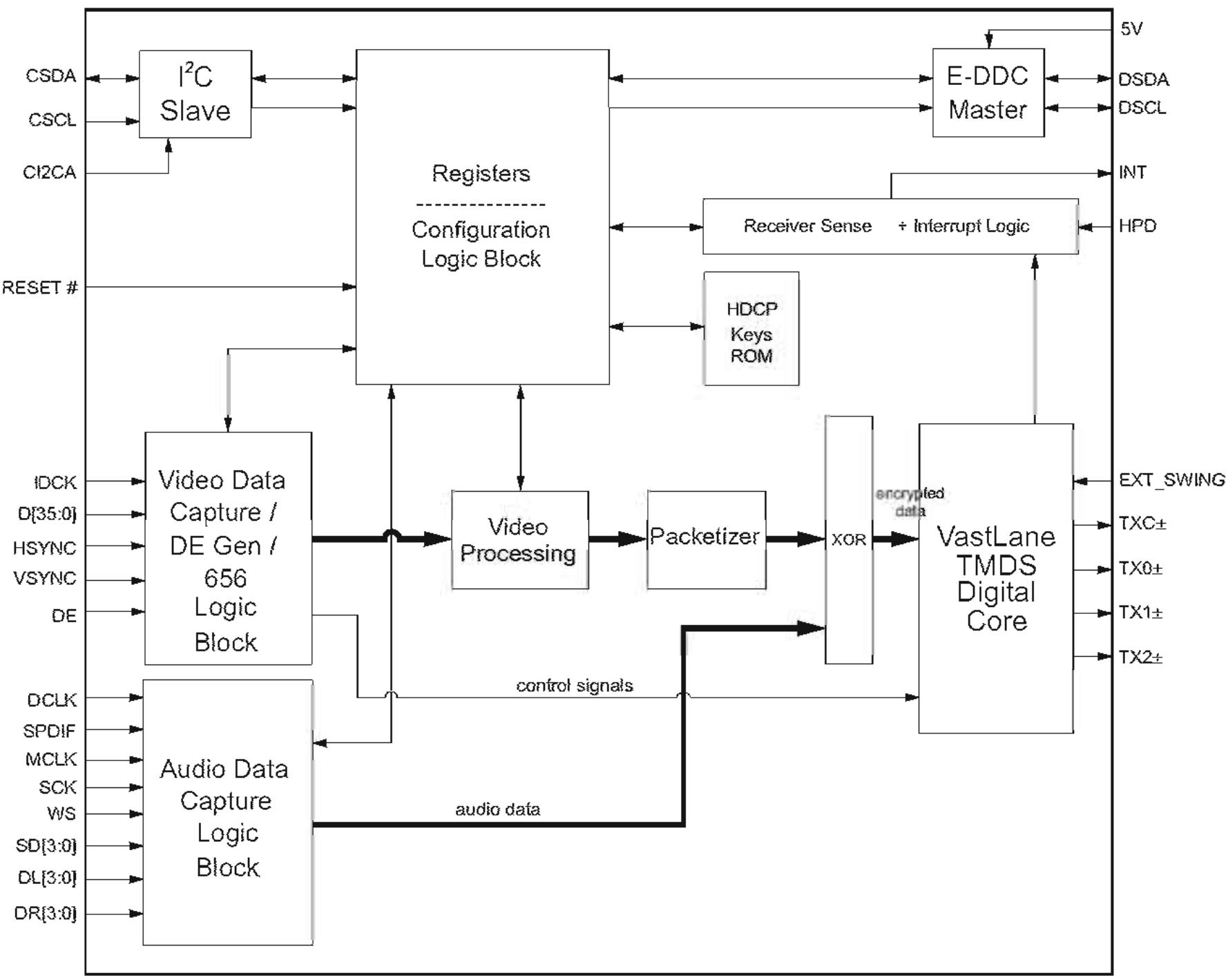
Only major semiconductors are shown, general semiconductors etc. are omitted to list.
The semiconductor which described a detailed drawing in a schematic diagram are omitted to list.

1. IC's

SII9134CTU (8U-310041 : IC502)



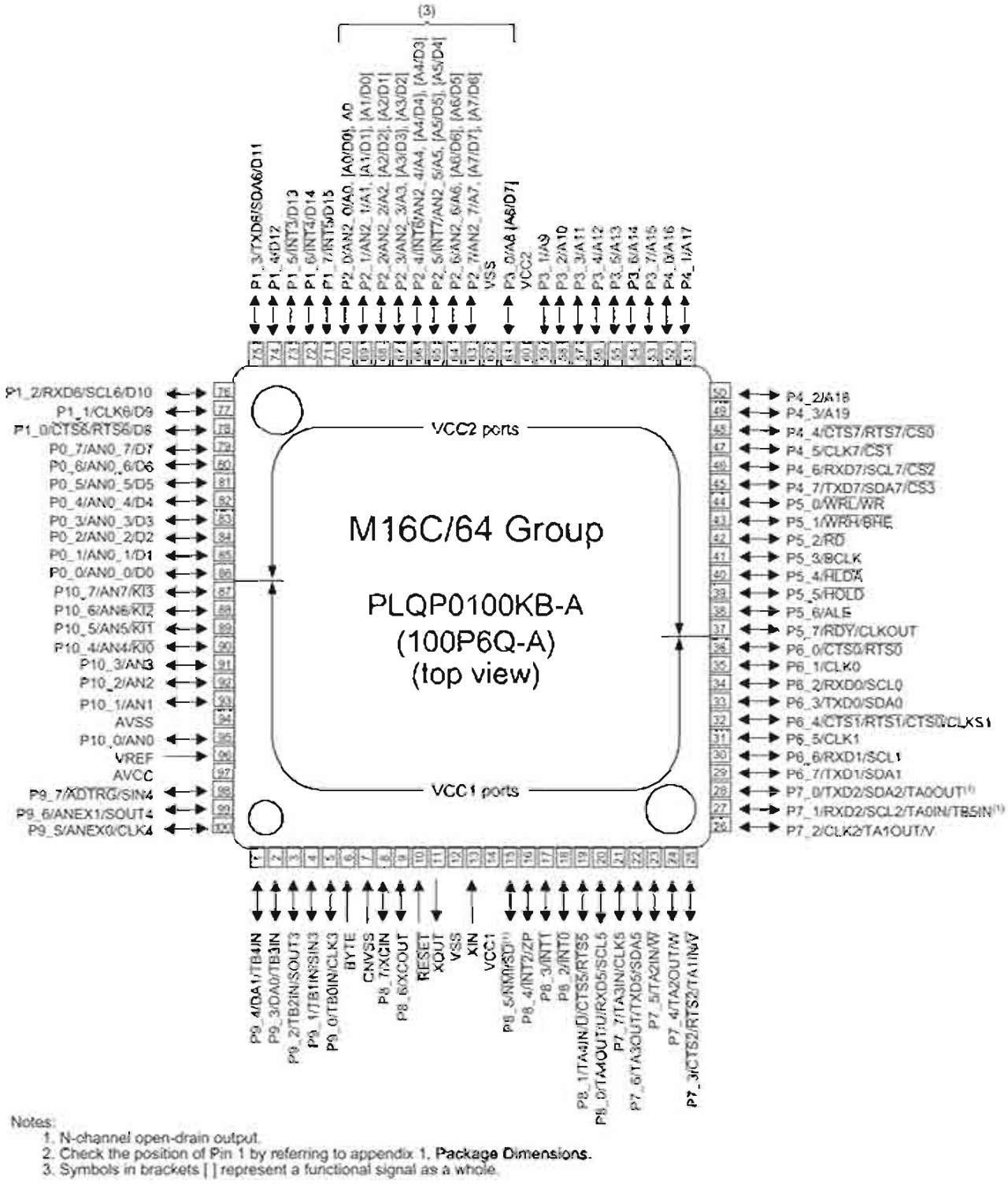
SII9134CTU Block Diagram



SII9134CTU Pin Function

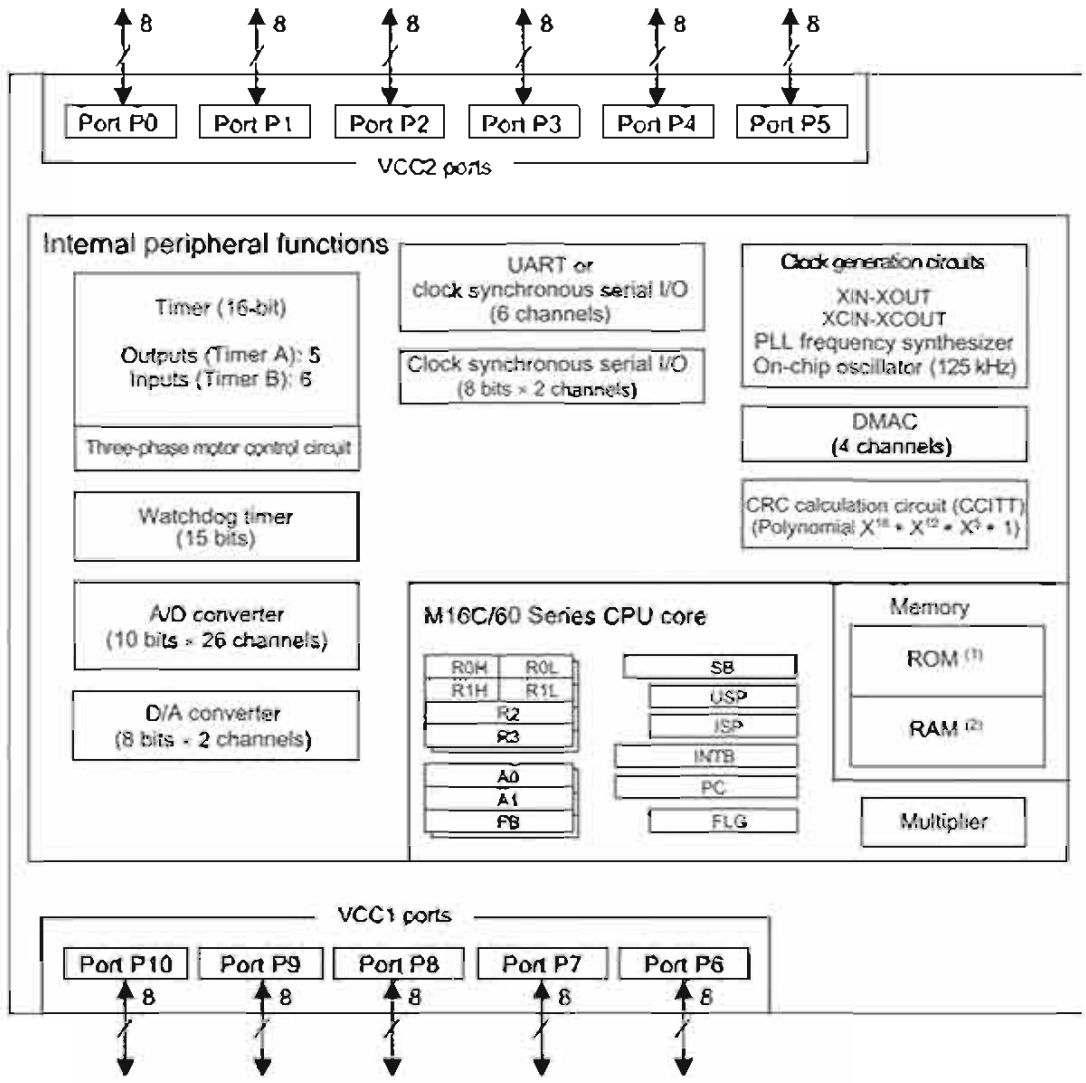
Pin Name	Pin #	Type	Dir	Description
D0	98	LVTTL	Input	These are the lower 12 bits of the 36-bit pixel bus. These pins are highly configurable and support multiple RGB and YCbCr formats. See Data Bus Mappings on page 30 for complete information.
D1	97	LVTTL	Input	
D2	96	LVTTL	Input	
D3	95	LVTTL	Input	
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-310041 : 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



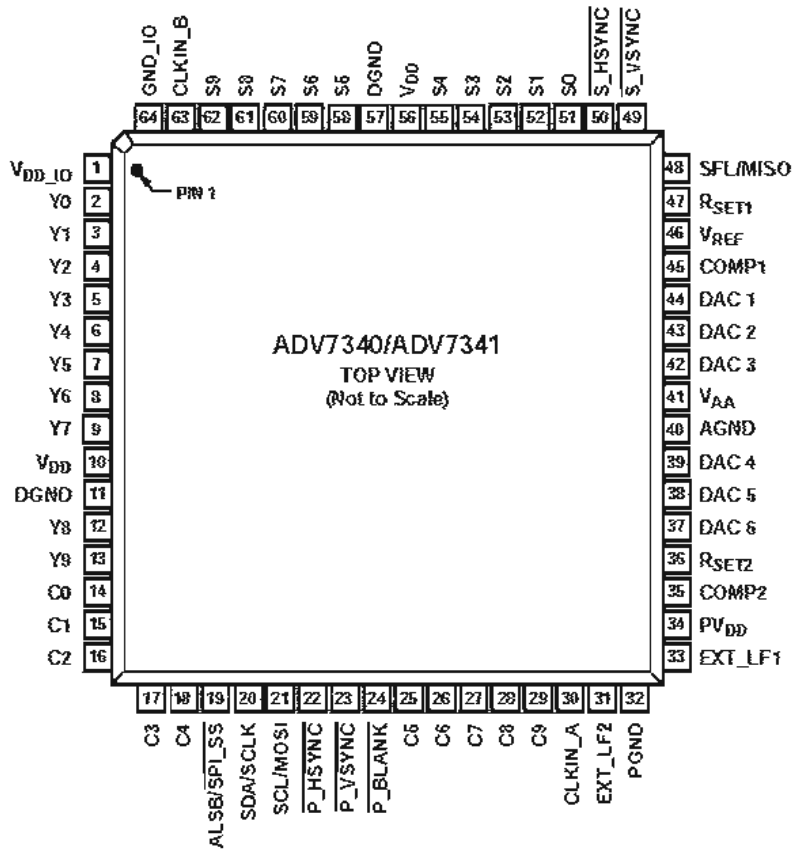
Notes :
1. ROM size depends on MCU type.
2. RAM size depends on MCU type.

R5F364VDNFB Pin Function

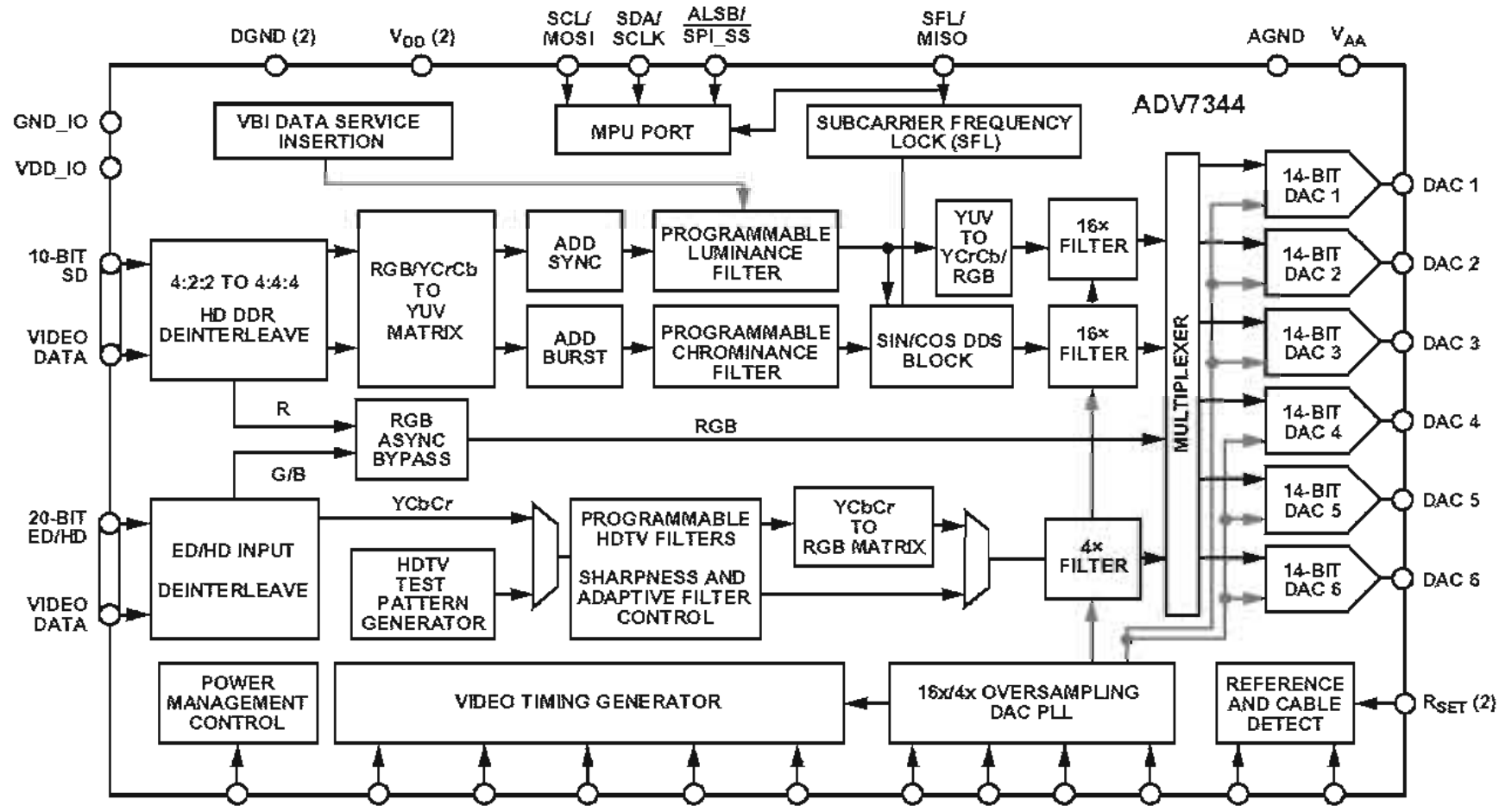
Pin No.		Control Pin	Port	I/O Pin Functions for of Peripheral Modules				Bus Control Pin
FA	FB			Interrupt	Timer	Serial interface	A/D converter D/A converter	
1	99		P9_6			SOUT4	ANEX1	
2	100		P9_5			CLK4	ANEX0	
3	1		P9_4		TB4IN		DA1	
4	2		P9_3		TB3IN		DA0	
5	3		P9_2		TB2IN	SOUT3		
6	4		P9_1		TB1IN	SIN3		
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	$\overline{INT7}$			AN2_5	A5, [A5/D5], [A5/D4]
68	66		P2_4	$\overline{INT6}$			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	$\overline{INT5}$				D15
74	72		P1_6	$\overline{INT4}$				D14
75	73		P1_5	$\overline{INT3}$				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			$\overline{CTS6/RTS6}$		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	$\overline{KI3}$			AN7	
90	88		P10_6	$\overline{KI2}$			AN6	
91	89		P10_5	$\overline{KI1}$			AN5	
92	90		P10_4	$\overline{KI0}$			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	$\overline{ADTRG}$	

ADV7340BSTZ-3 (8U-210095-1 : IC808, IC810)



ADV7340BSTZ-3 Block Diagram



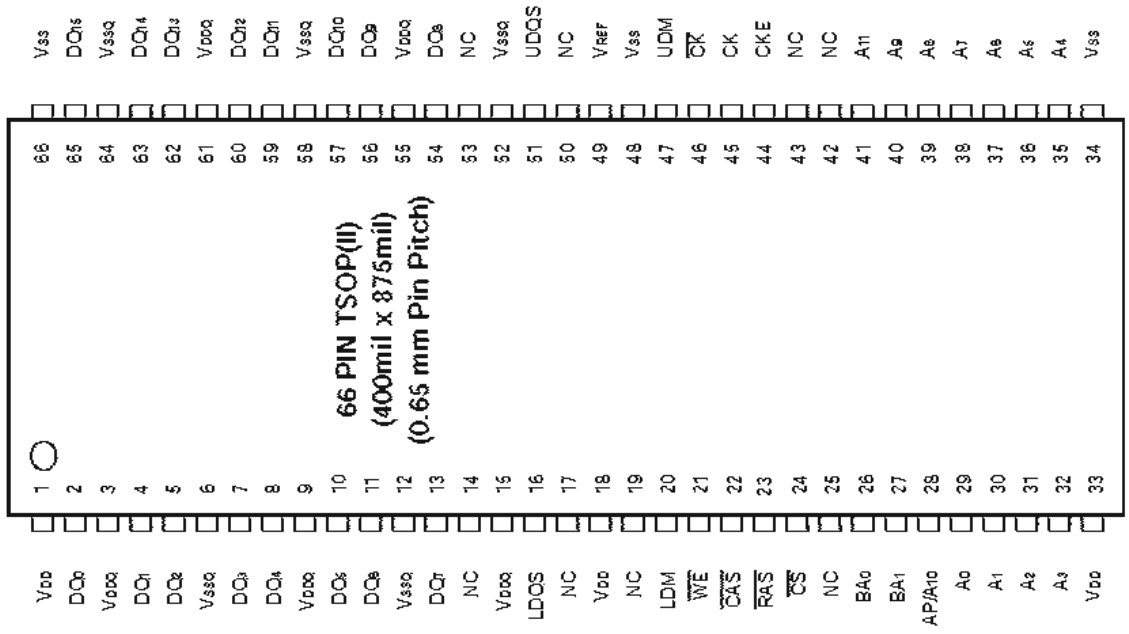
ADV7340BSTZ-3 Pin Function

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.

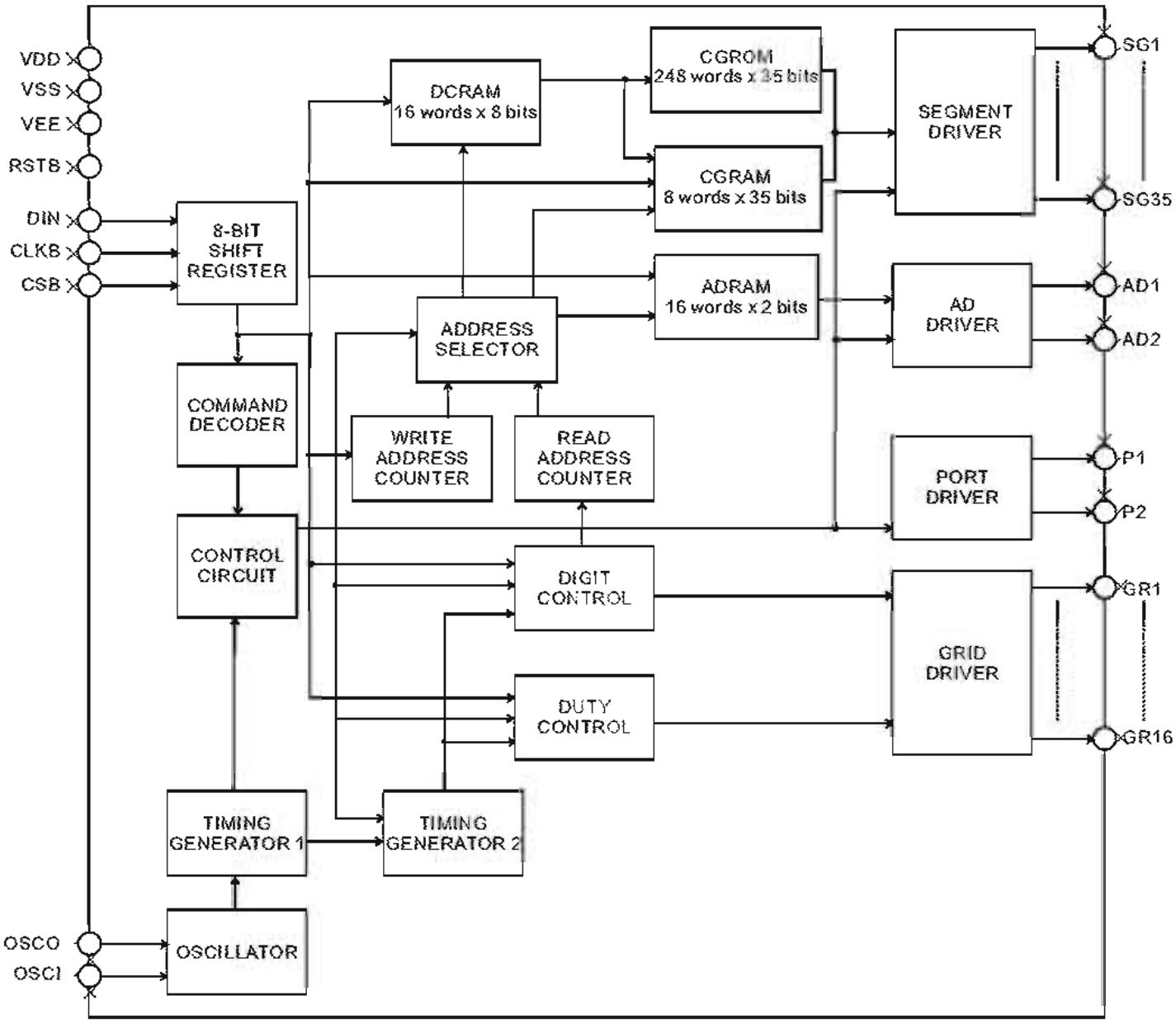
Pin No.	Mnemonic	Input/ Output	Description
44, 43, 42	DAC 1, DAC 2, DAC 3	O	DAC Outputs. Full and low drive capable DACs.
39, 38, 37	DAC 4, DAC 5, DAC 6	O	DAC Outputs. Low drive only capable DACs.
21	SCL/MOSI	I	Multifunctional Pin: I²C Clock Input/SPI Data Input.
20	SDA/SCLK	I/O	Multifunctional Pin: 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-210095-4 : IC101)



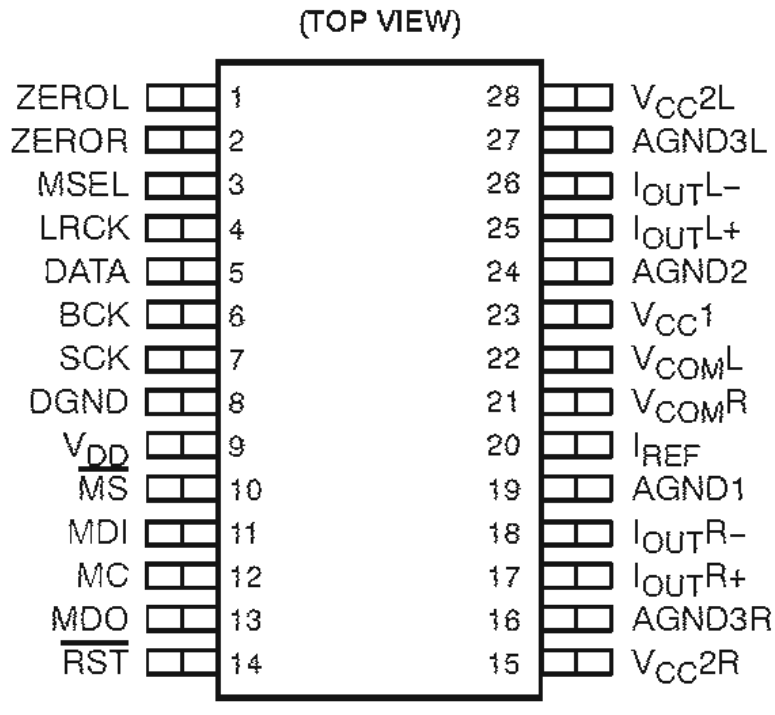
PT6302-R-001(L) Block Diagram



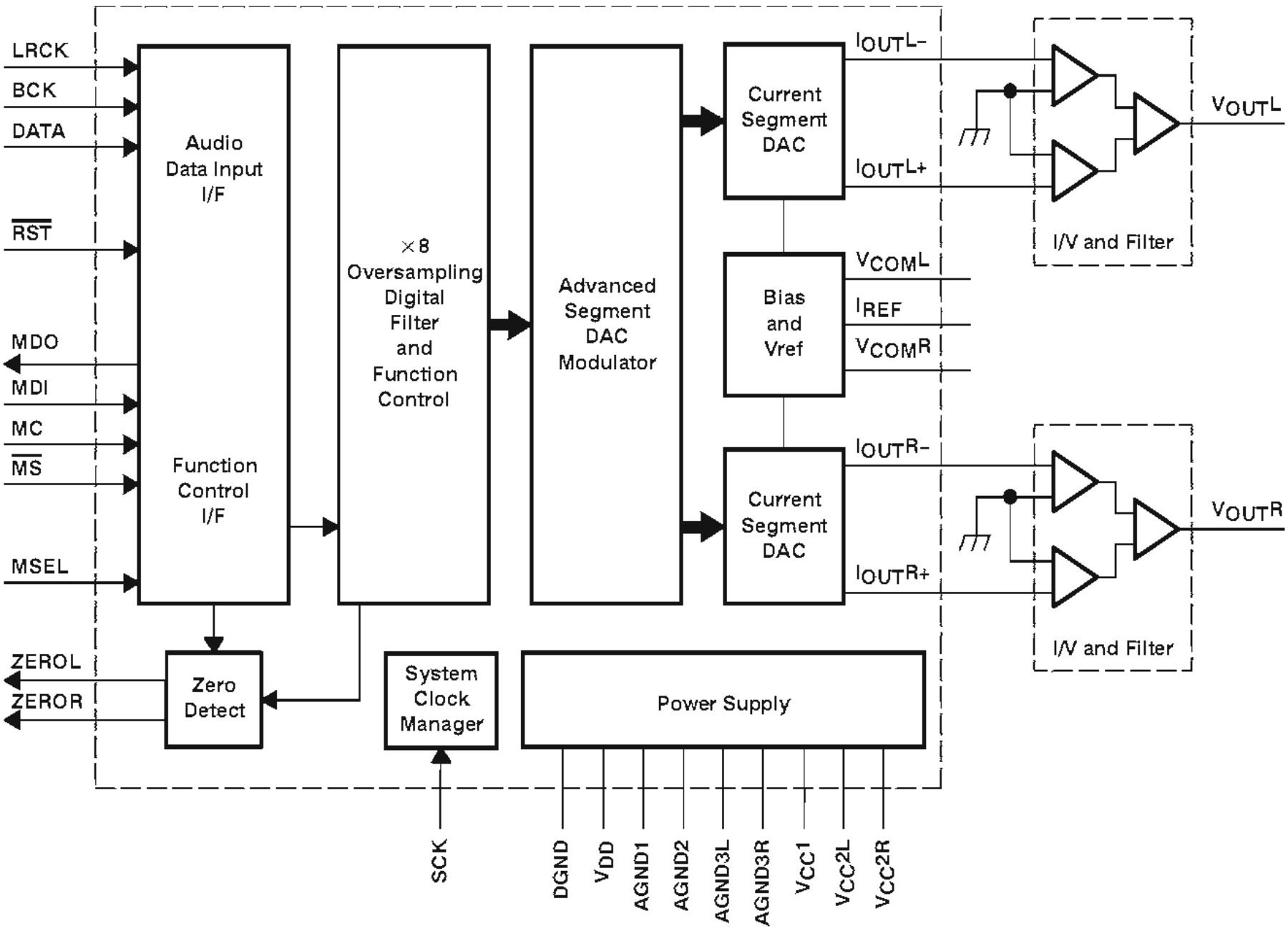
PT6302-R-001(L) Pin Function

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

PCM1796DBR (8U-210095-7:IC301, 8U-210094-2:IC601,IC701, 8U-210094-3:IC801,IC901)



PCM1796DBR Block Diagram

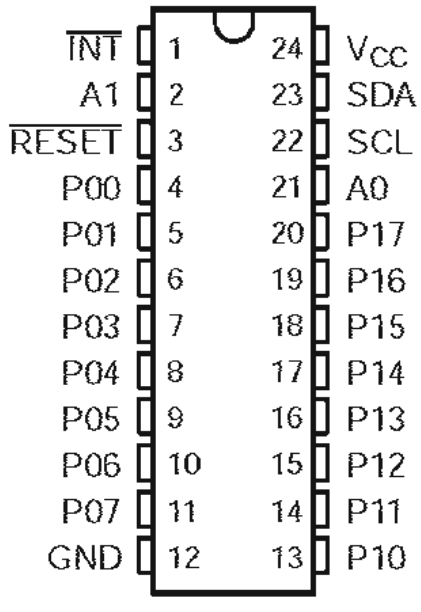


PCM1796DBR Pin Function

TERMINAL NAME	TERMINAL PIN	I/O	DESCRIPTIONS
AGND1	19	–	Analog ground (internal bias)
AGND2	24	–	Analog ground (internal bias)
AGND3L	27	–	Analog ground (L-channel DACFF)
AGND3R	16	–	Analog ground (R-channel DACFF)
BCK	6	I	Bit clock input(1)
DATA	5	I	Serial audio data input(1)
DGND	8	–	Digital ground
$I_{OUT}L+$	25	O	L-channel analog current output+
$I_{OUT}L-$	26	O	L-channel analog current output–
$I_{OUT}R+$	17	O	R-channel analog current output+
$I_{OUT}R-$	18	O	R-channel analog current output–
I_{REF}	20	–	Output current reference bias pin
LRCK	4	I	Left and right clock (f_S) input(1)
MC	12	I	Mode control clock input(1)
MDI	11	I	Mode control data input(1)
MDO	13	I/O	Mode control readback data output(3)
$\overline{MS}$	10	I/O	Mode control chip-select input(2)
MSEL	3	I	$I^2C/\overline{SPI}$ select(1)
$\overline{RST}$	14	I	Reset(1)
SCK	7	I	System clock input(1)
$V_{CC}1$	23	–	Analog power supply, 5 V
$V_{CC}2L$	28	–	Analog power supply (L-channel DACFF), 5 V
$V_{CC}2R$	15	–	Analog power supply (R-channel DACFF), 5 V
$V_{COM}L$	22	–	L-channel internal bias decoupling pin
$V_{COM}R$	21	–	R-channel internal bias decoupling pin
V_{DD}	9	–	Digital power supply, 3.3 V
ZEROL	1	I/O	Zero flag for L-channel(2)
ZEROR	2	I/O	Zero flag for R-channel(2)

(1) Schmitt-trigger input, 5-V tolerant
(2) Schmitt-trigger input and output. 5-V tolerant input and CMOS output
(3) Schmitt-trigger input and output. 5-V tolerant input. In I^2C mode, this pin becomes an open-drain 3-state output; otherwise, this pin is a CMOS output.

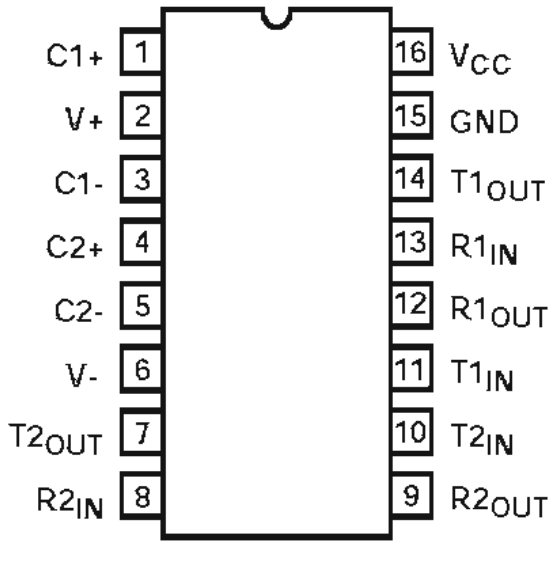
PCA9539PW,188 (8U-310041 : IC601)



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-210094-1 : IC403)

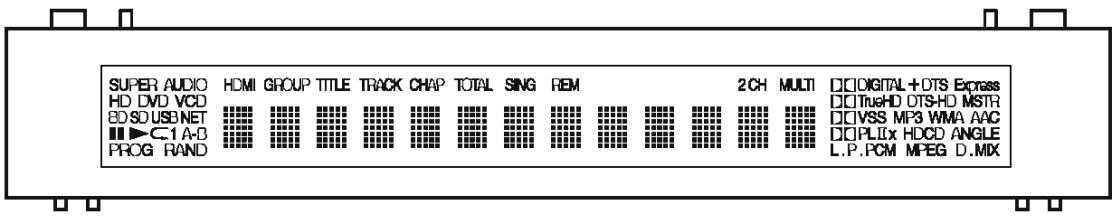


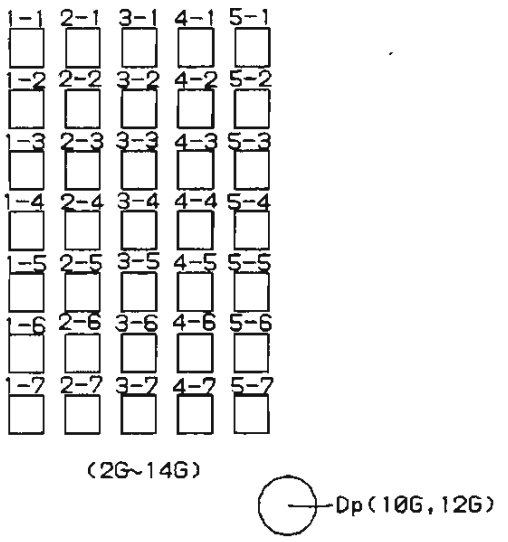
HIN202EIBNZ-T Pin Function

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.

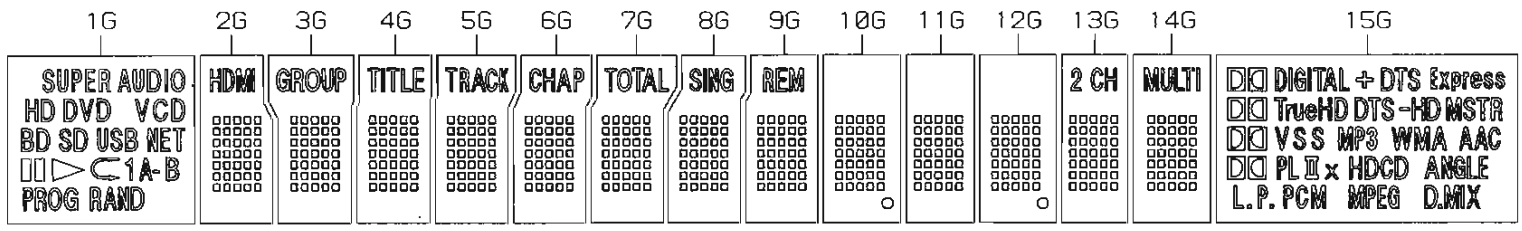
2. FL DISPLAY

FL TUBE (15-BT-114GNK) (8U-210095-4 : FL101)





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	P36	P35	P34	P33	P32	P31	P30	P29	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

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

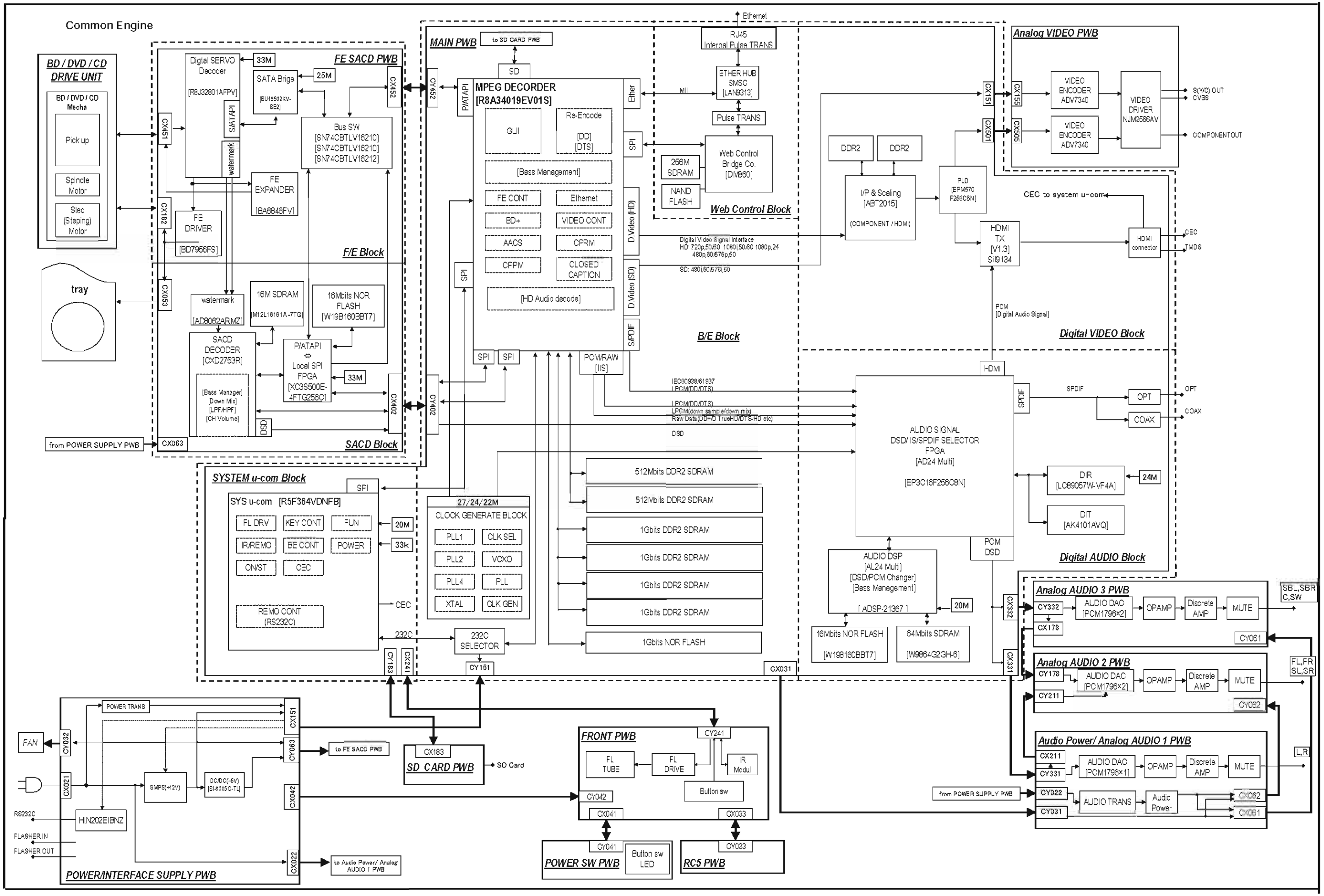
NOTE 1) F-,F+ --- Filament
2) NP ------ No pin
3) DL ------ Datum Line
4) 1G~15G --- Grid
5) Solder composition is Sn-3Ag-0.5Cu
6) NC ------ No connection
(NC pin should be electrically open on the PC board)
7) NX ------ No extend pin

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	(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	VS (S)
P11	▯▯	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	(VS) S
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	(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	-

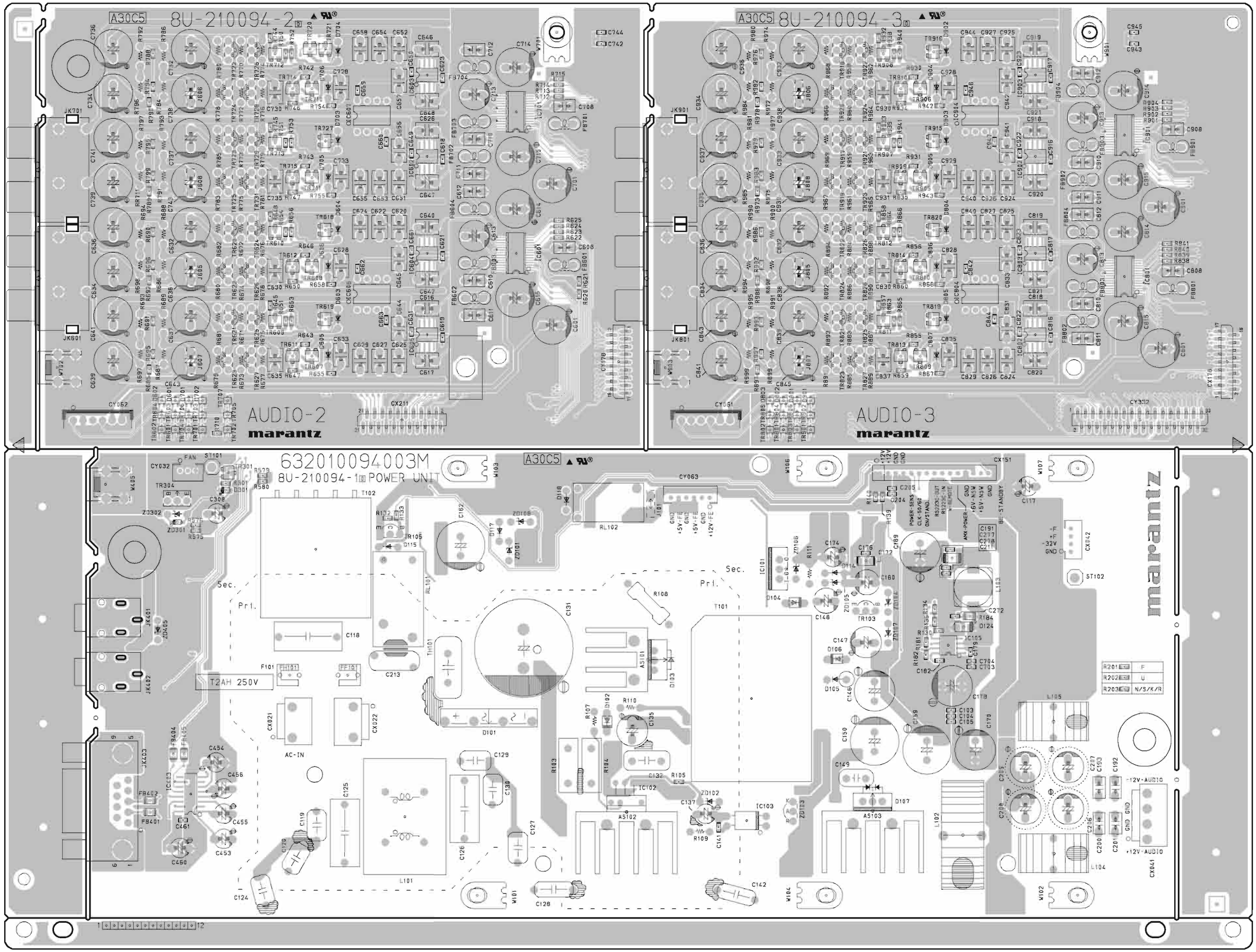
--MEMO--

BLOCK DIAGRAM



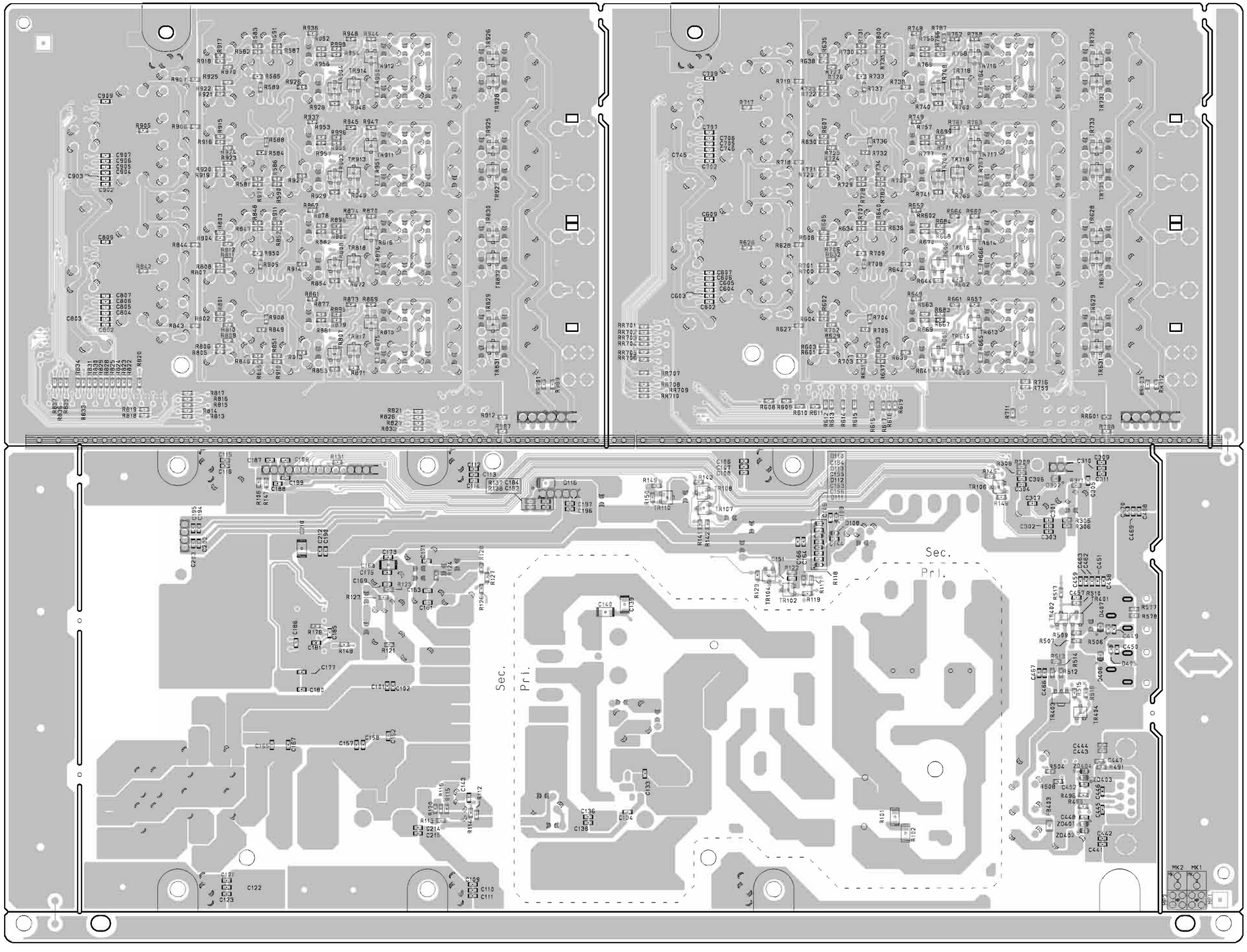
PRINTED WIRING BOARDS

8U-210094 AUDIO/POWER P.W.B. UNIT(1/2)



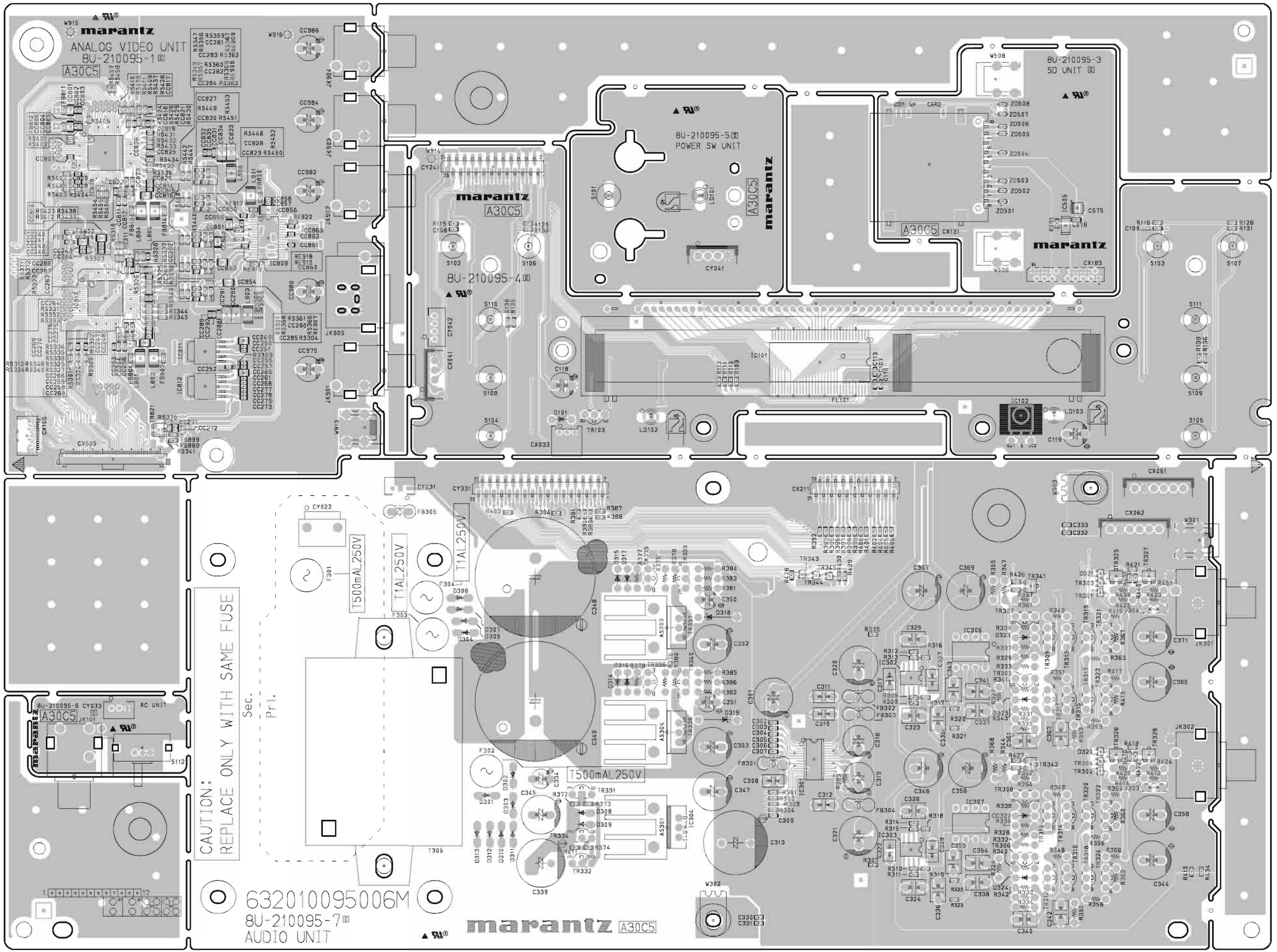
COMPONENT SIDE

8U-210086 AUDIO/POWER P.W.B. UNIT(2/2)



FOIL SIDE

8U-210095 AUDIO POWER/VIDEO/FRONT P.W.B. UNIT(1/2)



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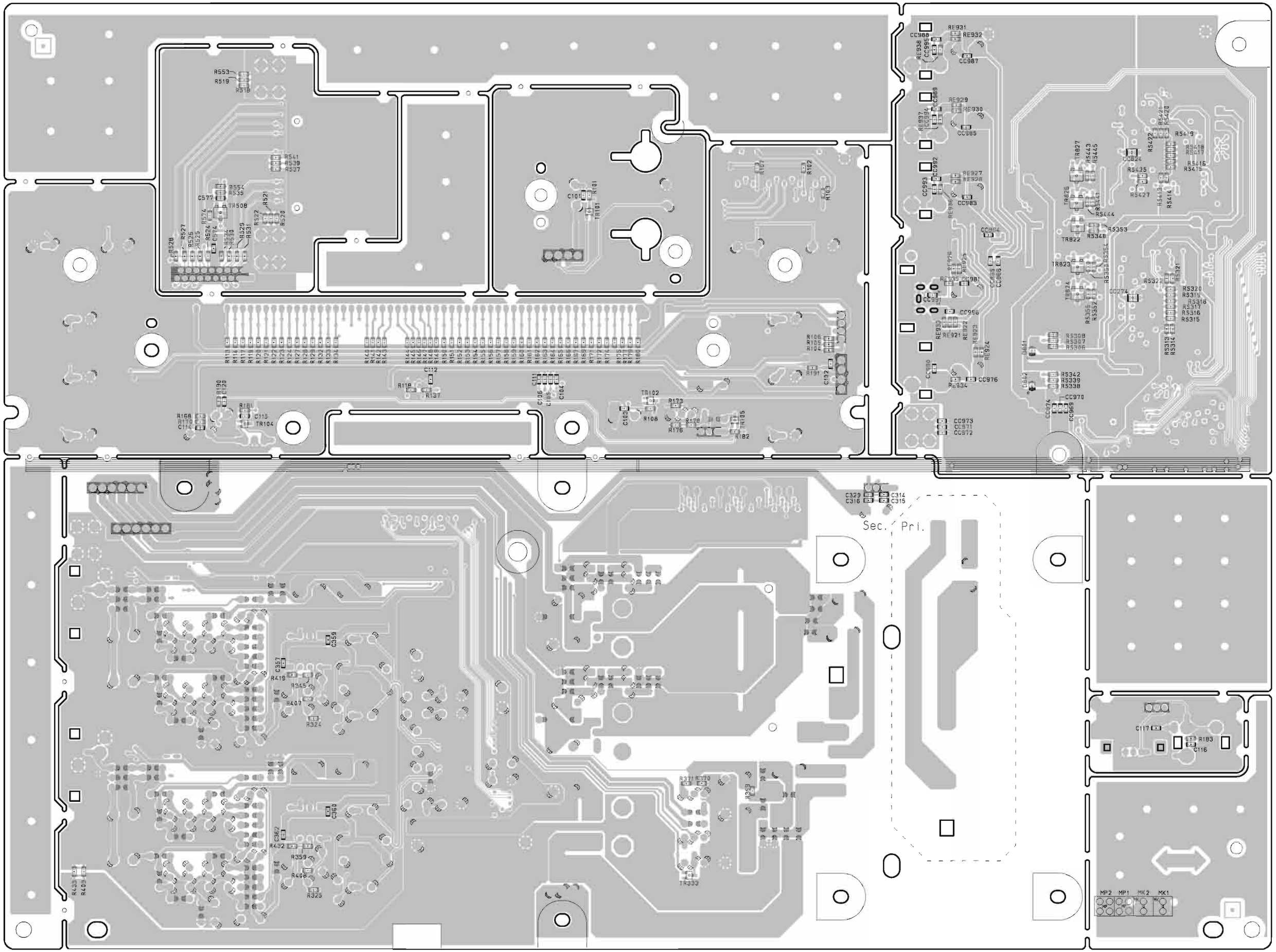
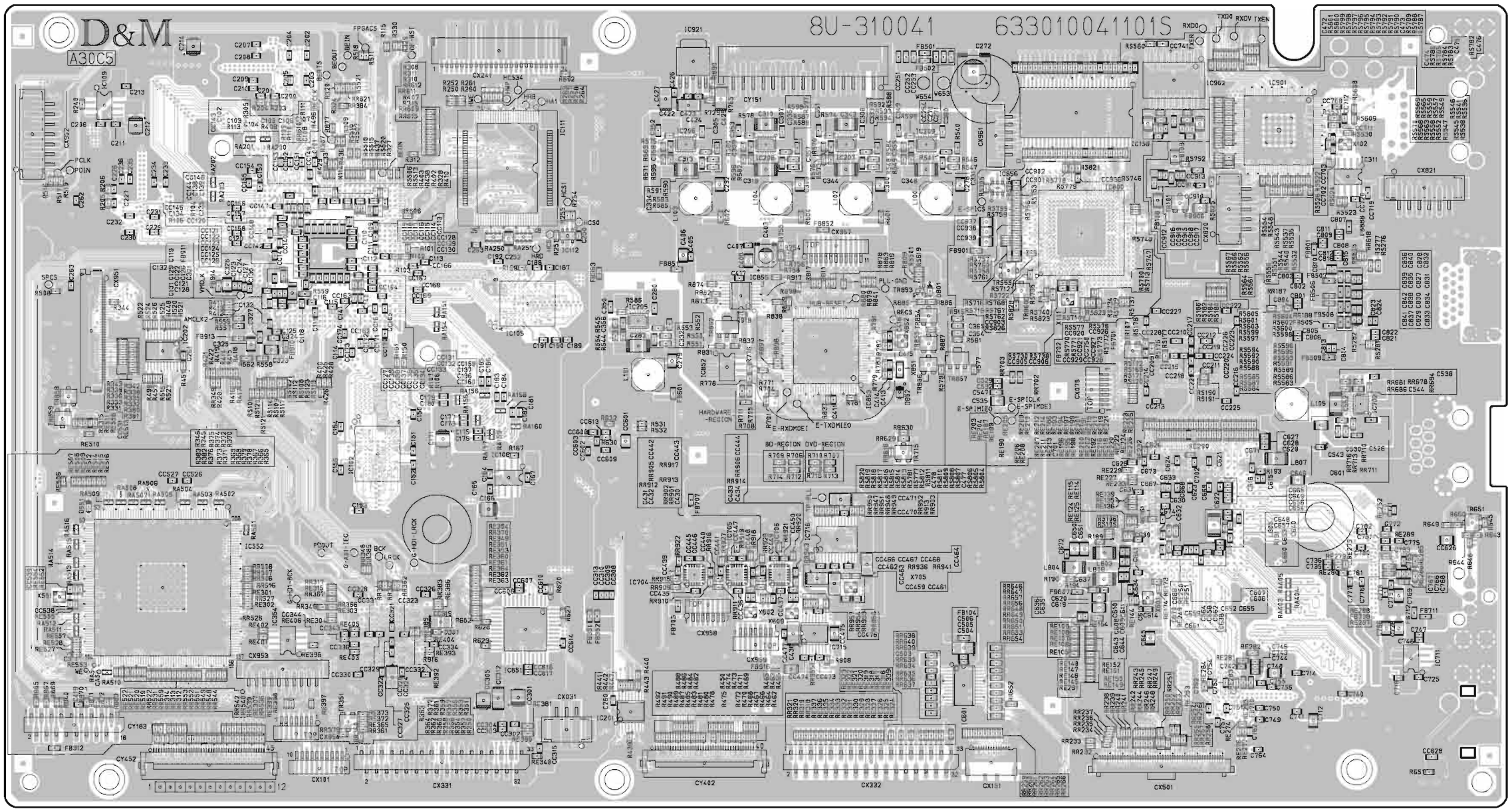


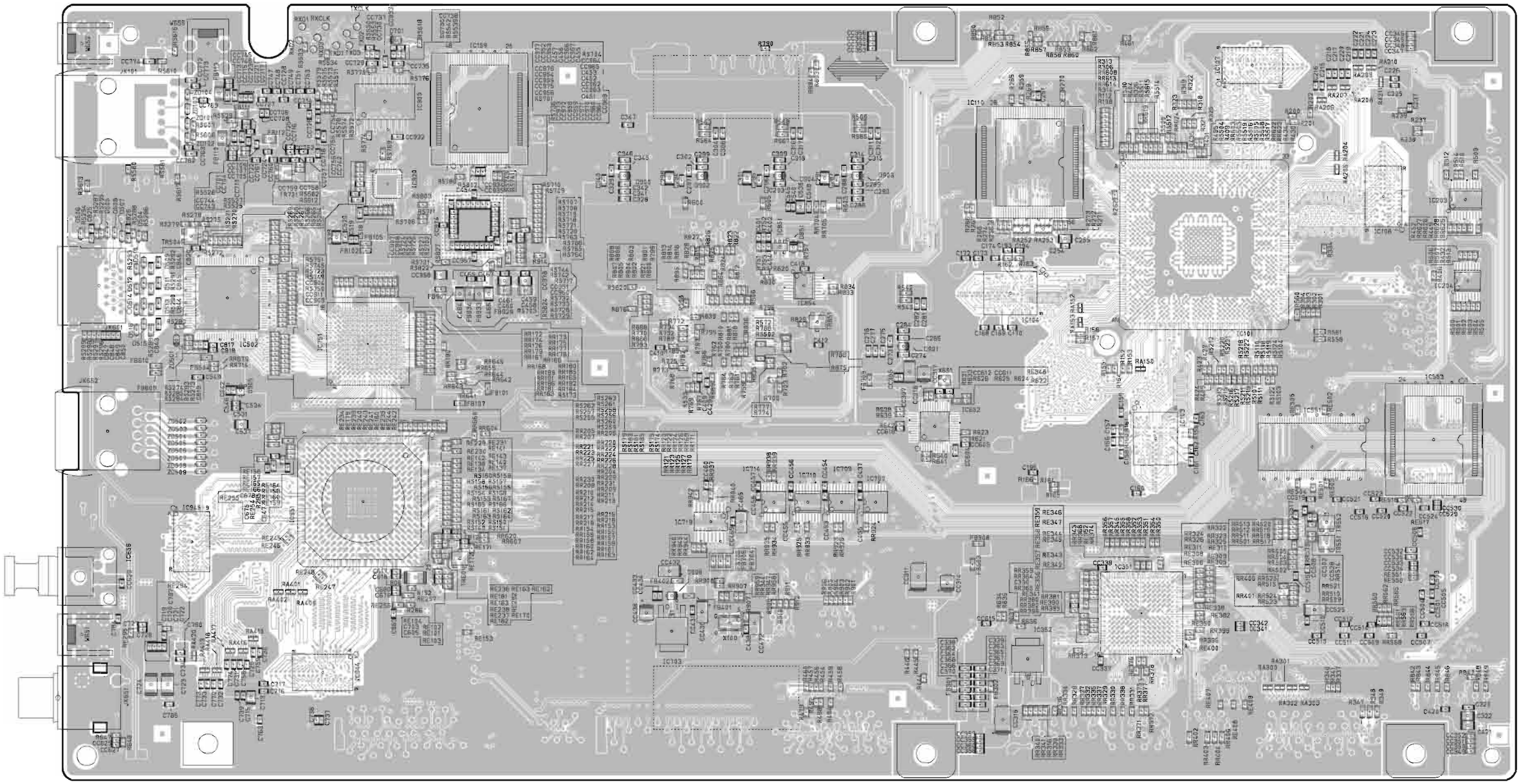
FOIL SIDE

8U-310041 MAIN P.W.B. UNIT(1/2)



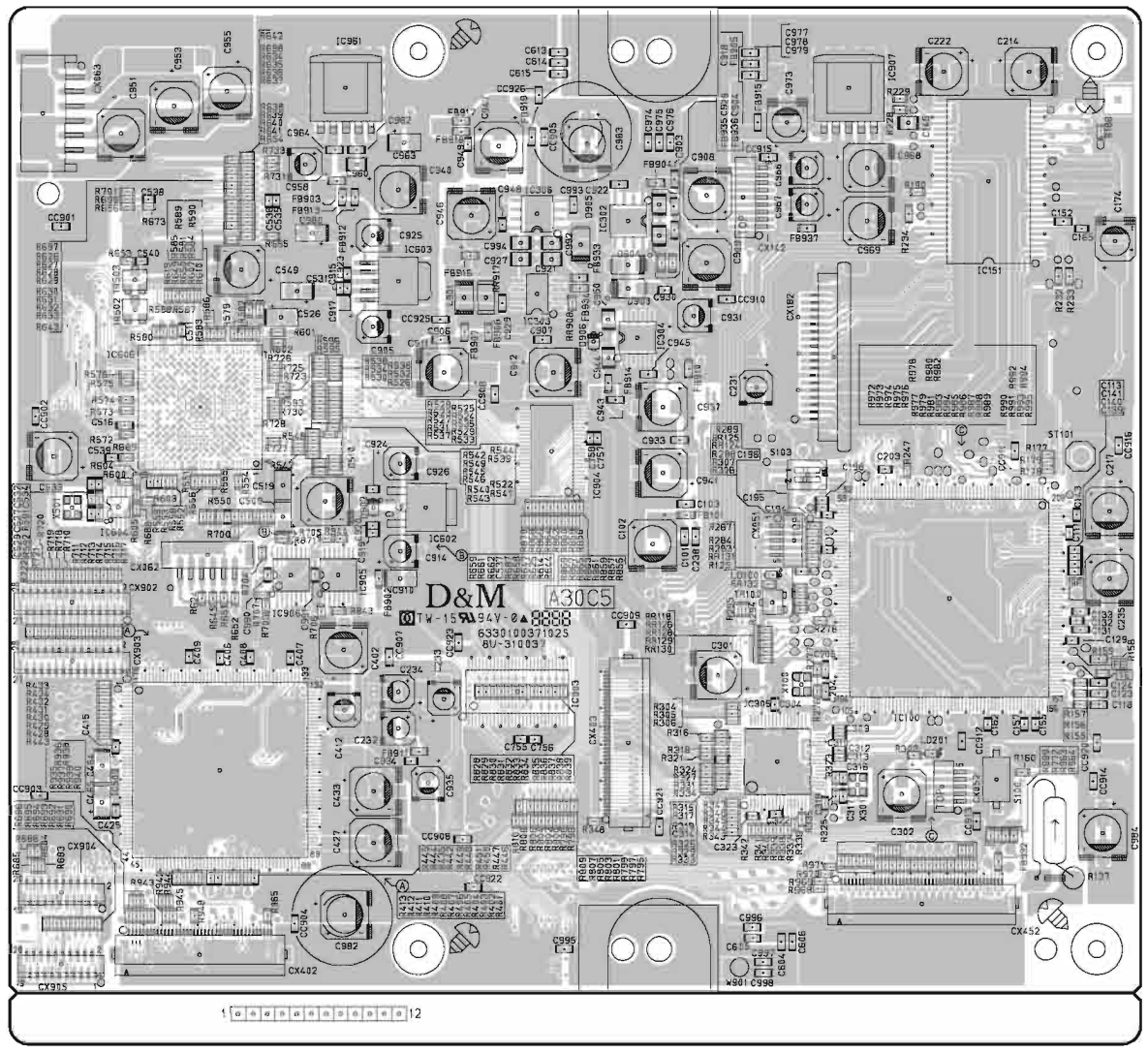
COMPONENT SIDE

8U-310041 MAIN P.W.B. UNIT(2/2)

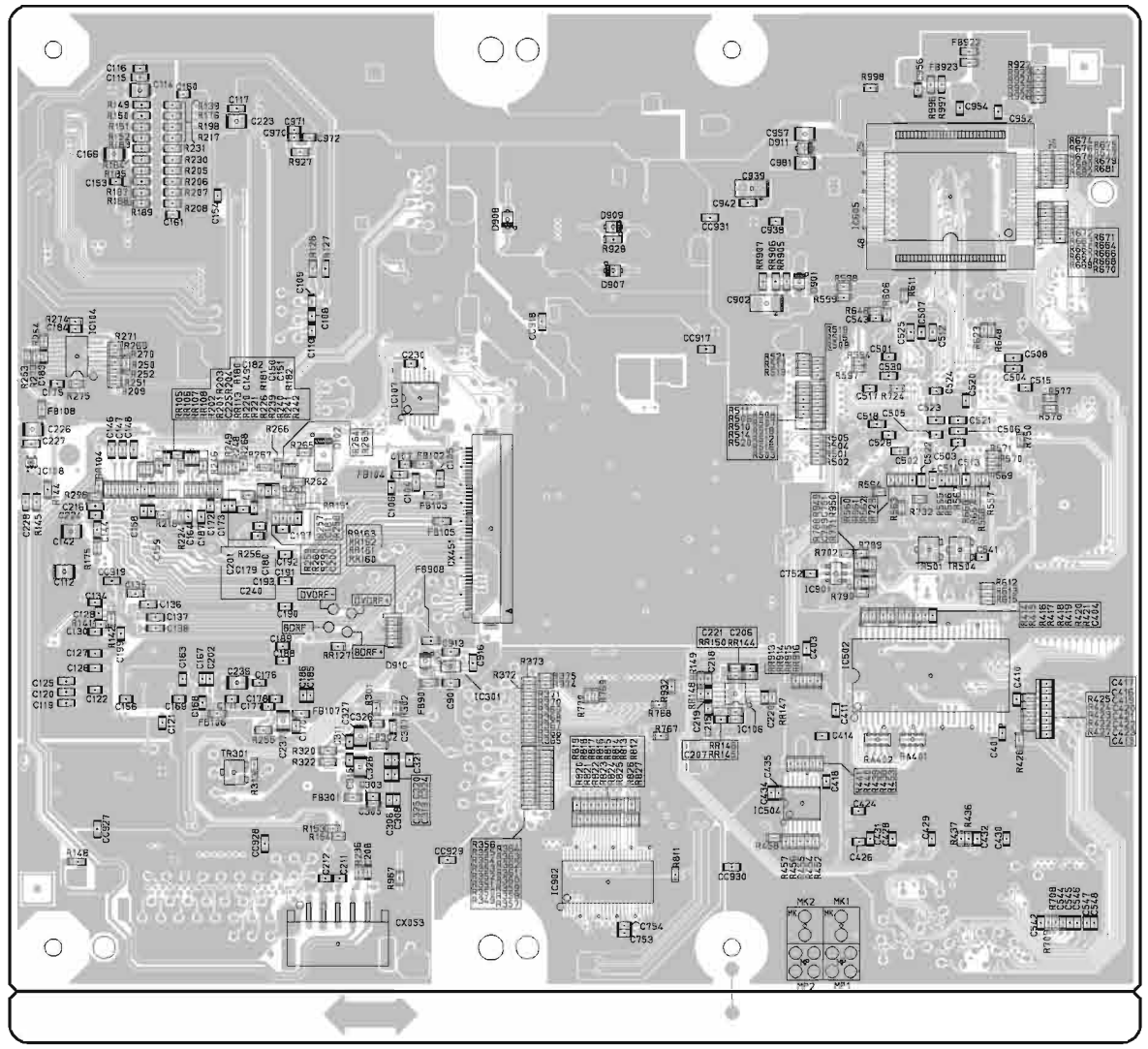


FOIL SIDE

8U-310037 FE/SACD P.W.B. UNIT



COMPONENT SIDE



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

RN: Type	14K: Shape and performance	2E: Power	182: Resistance	G: Allowable error	FR: 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
- Indicates number of zeros after effective number.
- 2-digit effective number.

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

: Units: ohm

● Capacitors

Ex.: CE | 04W | 1H | 3R2 | M | BP

CE: Type	04W: Shape and performance	1H: Dielectric strength	3R2: Capacity	M: Allowable error	BP: 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 charge 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
- Indicates number of zeros after effective number.
- 2-digit effective number.

· Units: μF.

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

· Units: μF.

* Capacity (except electrolyte)

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

· Units:pF

2 2 1 ⇨ 220pF
- Indicates number of zeros after effective numver. (0 or 1)
- 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　　R : Russia model

S : Singapore model　　K : Chaina model

8U-210094A AUDIO/POWER PWB UNIT ASSY(U model)
8U-210094C AUDIO/POWER PWB UNIT ASSY(N, R, S, K model)

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
⚠	IC102	231010077702S	STR-Y6453	U		
⚠	IC102	231010077719S	STR-Y6473	N, R, S, K		
	IC103	00D2623047008	PC123Y22			
	IC105	231810041507S	SI-8005Q-TL			
	IC403	00D2623571901	HIN202EIBNZ-T			
	IC601	00D2623362903	PCM1796DBR			
	IC602-605	00D2630896909	NJM2068MD-TE1 +C			
	IC606,607	00D2630609002	NJM2068DDC +T			
	IC701	00D2623362903	PCM1796DBR			
	IC801	00D2623362903	PCM1796DBR			
	IC802,803	00D2630896909	NJM2068MD-TE1 +C			
	IC804	00D2630609002	NJM2068DDC +T			
	IC901	00D2623362903	PCM1796DBR			
	IC902,903	00D2630896909	NJM2068MD-TE1 +C			
	IC904	00D2630609002	NJM2068DDC +T			
	TR102	00D2730464901	KTC3875S-GR-RTK/P			
	TR103	00D2720025907	2SB562(C)TF			
	TR104	00D2690082902	DTC114EKT96 +C	U		
	TR105	00D2730468907	KTC3199-GR-AT/P			
	TR106	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR110	00D2730464901	KTC3875S-GR-RTK/P			
	TR304	00D2740188905	2SD1858TV2(Q/R)			
	TR401	00D2730464901	KTC3875S-GR-RTK/P			
	TR402	00D2690191903	KRA104S-RTK/P (47K-47K)			
	TR403	00D2720160901	2SB1132T100Q +C			
	TR404	00D2690054901	DTC144EKT96 +C			
	TR601,602	00MBA20035210	DTC114EU			
	TR603,604	00MBA10026210	DTA114EU			
	TR605,606	00D2710259903	2SA1162-GR(TE85L)			
	TR607-610	00D2730403904	2SC2712-Y/GR(TE85L) +C			
	TR611-614	00D2710259903	2SA1162-GR(TE85L)			
	TR615,616	00D2730403904	2SC2712-Y/GR(TE85L) +C			
	TR620,621	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR622-625	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR626,627	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR628-631	00D2730460905	KTC2875-B-RTK/P			
	TR701,702	00MBA20035210	DTC114EU			
	TR703	00MBA10026210	DTA114EU			
	TR704,705	00MBA20035210	DTC114EU			
	TR706,707	00MBA10026210	DTA114EU			
	TR708,709	00D2710259903	2SA1162-GR(TE85L)			
	TR710-713	00D2730403904	2SC2712-Y/GR(TE85L) +C			
	TR714-717	00D2710259903	2SA1162-GR(TE85L)			
	TR718,719	00D2730403904	2SC2712-Y/GR(TE85L) +C			
	TR721	00D2730460905	KTC2875-B-RTK/P			
	TR722,723	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR724-726	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR728	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR729	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR730	00D2730460905	KTC2875-B-RTK/P			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	TR731	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR732,733	00D2730460905	KTC2875-B-RTK/P			
	TR735	00D2730460905	KTC2875-B-RTK/P			
	TR801-803	00MBA20035210	DTC114EU			
	TR804-806	00MBA10026210	DTA114EU			
	TR807,808	00D2710259903	2SA1162-GR(TE85L)			
	TR809-812	00D2730403904	2SC2712-Y/GR(TE85L) +C			
	TR813-816	00D2710259903	2SA1162-GR(TE85L)			
	TR817,818	00D2730403904	2SC2712-Y/GR(TE85L) +C			
	TR821,822	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR823-826	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR827,828	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR829-832	00D2730460905	KTC2875-B-RTK/P			
	TR901	00MBA20035210	DTC114EU			
	TR902	00MBA10026210	DTA114EU			
	TR903,904	00D2710259903	2SA1162-GR(TE85L)			
	TR905-908	00D2730403904	2SC2712-Y/GR(TE85L) +C			
	TR909-912	00D2710259903	2SA1162-GR(TE85L)			
	TR913,914	00D2730403904	2SC2712-Y/GR(TE85L) +C			
	TR917,918	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR919-922	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR923,924	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR925-928	00D2730460905	KTC2875-B-RTK/P			
⚠	D101	00D2760767005	RBV-406			
	D102	00D2760727919	AL01ZT (WK)			
⚠	D103	00D2760758001	SARS03			
	D104	00D2760727919	AL01ZT (WK)			
	D106	00D2760727919	AL01ZT (WK)			
⚠	D107	204050011708S	FME-210B			
	D108-113	00D2760750902	RB521S-30TE61	+REF		
	D115	00D2760401905	1SS133T77 (TAPE)			
	D117	00MHD20002710	1D3 1A/200V			
	D118	00D2760401905	1SS133T77 (TAPE)			
	D124	203850012502S	SJPB-L4			
	D302	00D2760794900	KDS160-RTK/P			
	D405	00D2760750902	RB521S-30TE61	+REF		
	D406,407	00D2760794900	KDS160-RTK/P			
	D601,602	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	D603-606	00D2760401905	1SS133T77 (TAPE)			
	D701,702	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	D703-706	00D2760401905	1SS133T77 (TAPE)			
	D801-803	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	D804-807	00D2760401905	1SS133T77 (TAPE)			
	D901	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	D902-905	00D2760401905	1SS133T77 (TAPE)			
	ZD101	00D2760761959	MTZJ15B T77	U		
	ZD102	00D2760636903	MTZJ8.2BT77			
⚠	ZD103	00D2631185907	TL431ACLP			
	ZD104	00D2760665903	MTZJ16B T77			
	ZD105	00D2760760905	MTZJ3.6B T77			
	ZD107	00D2760665903	MTZJ16B T77			
	ZD302	00D2760761904	MTZJ9.1B T77			
	ZD405	00D2760760963	MTZJ6.2B T77			
⚠	TH101	00D2790044002	NTH11D8R0LA			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
RESISTORS GROUP						
	R101	129550003504S	RM73B2E115JT(HV732B)			
	R102	129550003504S	RM73B2E115JT(HV732B)			
	R104	00D2432094064	RW99=3DR33JF	U		
	R104	00D2432094077	RW99=3DR47JF	N, R, S, K		
	R108	00D2442675716	RS14B3D683JNBF (ERG)			
	R115	00D2472035986	RM73B--332DT(1608)			
	R116	00D2472042911	RM73B--123DT(1608)			
	R120	00D2472034916	RM73B--561DT(1608)			
	R130	00D2472041925	RM73B--472DT(1608)			
	R134	00D2472035986	RM73B--332DT(1608)			
	R135	00D2472036985	RM73B--393DT(1608)			
	R142	00D2472036930	RM73B--243DT(1608)			
	R143	00D2472041925	RM73B--472DT(1608)			
	R202	00D2472018903	RM73B--0R0KT +1608/	U		
	R203	00D2472018903	RM73B--0R0KT +1608/	N, R, S, K		
CAPACITORS GROUP						
	C106	nsp	CK73B1H103KT (1608) +1608			
	C107	nsp	CK73B1H102KT +1608			
	C108	nsp	CC73CH1H101JT +1608			
	C109	nsp	CK73B1H103KT (1608) +1608			
	C110	nsp	CK73B1H102KT +1608			
	C111	nsp	CC73CH1H101JT +1608			
	C112	nsp	CK73B1H103KT (1608) +1608			
	C113	nsp	CK73B1H102KT +1608			
	C114	nsp	CC73CH1H101JT +1608			
	C115	nsp	RM73B--0R0KT +1608			
	C116	nsp	RM73B--0R0KT +1608			
	C117	00D2544722949	CE04W1H010MT(GR)			
⚠	C118	00D2568039029	CF99--2EAC334K(LEMX)			
⚠	C119	00D2538035710	CK45E2EAC222MC(KY)			
⚠	C120	00D2538035710	CK45E2EAC222MC(KY)			
	C121	nsp	CK73B1H103KT (1608) +1608			
	C122	nsp	CC73CH1H101JT +1608			
	C123	nsp	CK73B1H102KT +1608			
⚠	C124	00D2538035710	CK45E2EAC222MC(KY)	U		
⚠	C126	00D2568039029	CF99--2EAC334K(LEMX)			
⚠	C128	00D2538029713	CK45F2EAC471KC(KX)			
	C131	134010168202S	CE68W2D331M Q25(KMM)	U		
	C131	134010168226S	CE68W2G121M Q25(KMM)	N, R, S, K		
	C132	132050024205S	CK45B3D102KC(DEHR)	U		
	C132	132050023202S	CK45B3D471KC(DEHR)	N, R, S, K		
	C134	nsp	CK73B1A224KT +1608			
	C135	134050069402S	CE04W2A270MT HB5(KY)			
	C137	00D2544524972	CE04W1H4R7MT SMG/RE3			
	C139	132510036571S	CK73B2J153KT(3216)			
	C140	132510036571S	CK73B2J153KT(3216)			
	C141	nsp	CK73B1H472KT +1608			
	C142	00D2538029700	CK45F2EAC222MC (KX)			
	C143	nsp	CK73F1E104ZT +1608			
	C144	nsp	CK73B1E223KT +1608			
	C145	nsp	CK73B1E223KT +1608			
	C147	134050069402S	CE04W2A270MT HB5(KY)			
	C148	00D2544711918	CE04W1A221MT F11(KY)			
	C149	00D2534548706	CC45R3A102KC			
	C150	00D2544806700	CE04W1C222MC K25(KY)			
	C151	00D2570517908	CK73B1C473KT +1608			
	C152	132350030504S	CK73B1C225KT 1608			
	C153	nsp	CK73B1H103KT (1608) +1608			
	C154	nsp	CK73B1H103KT (1608) +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C155	nsp	CK73B1H103KT (1608) +1608			
	C156	nsp	CK73B1H103KT (1608) +1608			
	C157	132350030504S	CK73B1C225KT 1608			
	C158	nsp	CK73B1H102KT +1608			
	C159	00D2544806700	CE04W1C222MC K25(KY)			
	C160	00D2544755903	CE04W1H560MT(KY)			
	C161	132350030504S	CK73B1C225KT 1608			
	C162	00D2544806700	CE04W1C222MC K25(KY)			
	C163	132350030504S	CK73B1C225KT 1608			
	C164	nsp	CK73F1E104ZT +1608			
	C165	132350030504S	CK73B1C225KT 1608			
	C166	nsp	CK73B1H102KT +1608			
	C167	nsp	CK73B1H102KT +1608			
	C169	nsp	CK73B1H102KT +1608			
	C170	134050090208S	CE04W1C102MC J20(KY)			
	C171	132350030504S	CK73B1C225KT 1608			
	C173	nsp	CK73B1H102KT +1608			
	C174	00D2544717925	CE04W1A101MT(GR)			
	C175	132350036502S	CK73R1H104KT (1608)			
	C176	132350036502S	CK73R1H104KT (1608)			
	C177	nsp	CK73B1H102KT +1608			
	C178	134050090208S	CE04W1C102MC J20(KY)			
	C179	132350030504S	CK73B1C225KT 1608			
	C180	nsp	CK73F1E104ZT +1608			
	C182	132350036502S	CK73R1H104KT (1608)			
	C183	nsp	CK73B1H103KT (1608) +1608			
	C184	nsp	CK73B1H102KT +1608			
	C185	nsp	CK73B1H102KT +1608			
	C186	nsp	CK73B1H103KT (1608) +1608			
	C187	nsp	CK73B1H103KT (1608) +1608			
	C188	nsp	CK73B1H102KT +1608			
	C190	nsp	CK73F1E104ZT +1608			
	C191	nsp	CK73B1H102KT +1608			
	C194	nsp	CK73B1H103KT (1608) +1608			
	C195	nsp	CK73B1H102KT +1608			
	C196	nsp	CK73B1H103KT (1608) +1608			
	C197	nsp	CK73B1H102KT +1608			
	C198	nsp	CK73B1H103KT (1608) +1608			
	C199	nsp	CK73B1H102KT +1608			
	C202	nsp	CK73B1H103KT (1608) +1608			
	C203	nsp	CK73B1H102KT +1608			
	C204	nsp	CK73B1H103KT (1608) +1608			
	C205	nsp	CK73B1H102KT +1608			
	C211	132350030504S	CK73B1C225KT 1608			
	C213	00D2538026703	CK45E2EAC472MC			
	C272	nsp	CK73B1H222KT +1608			
	C277	00MDK26476010	GRM32EB31C476KE15L			
	C278	132350030504S	CK73B1C225KT 1608			
	C301	nsp	CK73F1E104ZT +1608			
	C302	nsp	CK73B1H103KT (1608) +1608			
	C303	nsp	CK73F1E104ZT +1608			
	C304	nsp	CK73F1E104ZT +1608			
	C305	nsp	CK73F1E104ZT +1608			
	C308	00D2544718937	CE04W1C470MT(GR)			
	C309	nsp	CK73B1H103KT (1608) +1608			
	C310	nsp	CK73B1H102KT +1608			
	C311	nsp	CC73CH1H101JT +1608			
	C443	nsp	RM73B--0R0KT +1608			
	C444	nsp	RM73B--0R0KT +1608			
	C445	nsp	CC73CH1H101JT +1608			
	C446	nsp	CC73CH1H101JT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C447	nsp	RM73B--0R0KT +1608			
	C449	nsp	CK73B1H102KT +1608			
	C450	nsp	CK73F1E104ZT +1608			
	C451	nsp	CK73F1E104ZT +1608			
	C453	00D2544722907	CE04W1H0R1MT(GR)			
	C454	00D2544722907	CE04W1H0R1MT(GR)			
	C455	00D2544722907	CE04W1H0R1MT(GR)			
	C456	00D2544722907	CE04W1H0R1MT(GR)			
	C458	nsp	CC73CH1H221JT +1608			
	C460	00D2544718937	CE04W1C470MT(GR)			
	C461	nsp	CK73F1E104ZT +1608			
	C462	nsp	CC73CH1H221JT +1608			
	C463	nsp	CK73F1E104ZT +1608			
	C466	nsp	CK73B1H103KT (1608) +1608			
	C468	nsp	CC73CH1H101JT +1608			
	C469	nsp	CK73B1H102KT +1608			
	C470	nsp	CK73B1H103KT (1608) +1608			
	C601	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C608	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C609	nsp	CK73F1E104ZT +1608			
	C610	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C611	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C612	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C613	00MOA476016Z0	ROS-16V 470M - G3#PE - T2 (47UF 16V)			
	C614	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C615	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C616	nsp	1000PF J 100V APSV			
	C617	nsp	1000PF J 100V APSV			
	C618	nsp	CK73F1E104ZT +1608			
	C619	nsp	CK73F1E104ZT +1608			
	C620	nsp	100PF J 100V APSV			
	C621	nsp	CK73F1E104ZT +1608			
	C622	nsp	1000PF J 100V APSV			
	C623	nsp	CK73F1E104ZT +1608			
	C624	nsp	APSV 221J,220PF(TP) 100V PP			
	C625	nsp	100PF J 100V APSV			
	C626	nsp	1000PF J 100V APSV			
	C627	nsp	1000PF J 100V APSV			
	C628	nsp	100PF J 100V APSV			
	C629	nsp	APSV 221J,220PF(TP) 100V PP			
	C630	nsp	APSV 471J,470PF(TP) 100V PP			
	C631	nsp	CK73F1E104ZT +1608			
	C632	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C633	nsp	100PF J 100V APSV			
	C634	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C635	nsp	APSV 471J,470PF(TP) 100V PP			
	C636	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C637	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C638	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C639	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C640	nsp	1000PF J 100V APSV			
	C641	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C642	nsp	1000PF J 100V APSV			
	C643	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C644	nsp	APSV 221J,220PF(TP) 100V PP			
	C645	nsp	APSV 221J,220PF(TP) 100V PP			
	C646	nsp	1000PF J 100V APSV			
	C647	nsp	1000PF J 100V APSV			
	C648	nsp	1000PF J 100V APSV			
	C649	nsp	CK73F1E104ZT +1608			
	C650	nsp	CK73F1E104ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C651	nsp	100PF J 100V APSV			
	C652	nsp	100PF J 100V APSV			
	C653	nsp	1000PF J 100V APSV			
	C654	nsp	1000PF J 100V APSV			
	C655	nsp	APSV 221J,220PF(TP) 100V PP			
	C656	nsp	APSV 221J,220PF(TP) 100V PP			
	C657	nsp	APSV 221J,220PF(TP) 100V PP			
	C658	nsp	APSV 221J,220PF(TP) 100V PP			
	C659	nsp	CK73F1E104ZT +1608			
	C660	nsp	CK73F1E104ZT +1608			
	C661	nsp	CK73F1E104ZT +1608			
	C662	nsp	CK73F1E104ZT +1608			
	C663	nsp	CK73F1E104ZT +1608			
	C701	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C703	132350030504S	CK73B1C225KT 1608			
	C704	132350030504S	CK73B1C225KT 1608			
	C708	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C709	nsp	CK73F1E104ZT +1608			
	C710	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C711	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C712	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C713	00MOA476016Z0	ROS-16V 470M - G3#PE - T2 (47UF 16V)			
	C714	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C715	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C728	nsp	100PF J 100V APSV			
	C730	nsp	APSV 471J,470PF(TP) 100V PP			
	C732	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C733	nsp	100PF J 100V APSV			
	C734	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C735	nsp	APSV 471J,470PF(TP) 100V PP			
	C736	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C737	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C738	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C739	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C741	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C742	nsp	CK73F1E104ZT +1608			
	C743	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C744	nsp	CK73F1H103ZT +1608			
	C801	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C808	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C809	nsp	CK73F1E104ZT +1608			
	C810	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C811	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C812	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C813	00MOA476016Z0	ROS-16V 470M - G3#PE - T2 (47UF 16V)			
	C814	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C815	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C816	nsp	CK73F1E104ZT +1608			
	C817	nsp	CK73F1E104ZT +1608			
	C818	nsp	1000PF J 100V APSV			
	C819	nsp	1000PF J 100V APSV			
	C820	nsp	1000PF J 100V APSV			
	C821	nsp	1000PF J 100V APSV			
	C822	nsp	CK73F1E104ZT +1608			
	C823	nsp	CK73F1E104ZT +1608			
	C824	nsp	100PF J 100V APSV			
	C825	nsp	100PF J 100V APSV			
	C826	nsp	1000PF J 100V APSV			
	C827	nsp	1000PF J 100V APSV			
	C828	nsp	100PF J 100V APSV			
	C829	nsp	APSV 221J,220PF(TP) 100V PP			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C830	nsp	APSV 471J,470PF(TP) 100V PP			
	C831	nsp	APSV 221J,220PF(TP) 100V PP			
	C832	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C833	nsp	APSV 221J,220PF(TP) 100V PP			
	C834	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C835	nsp	100PF J 100V APSV			
	C836	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C837	nsp	APSV 471J,470PF(TP) 100V PP			
	C838	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C839	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C840	nsp	APSV 221J,220PF(TP) 100V PP			
	C841	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C842	nsp	CK73F1E104ZT +1608			
	C843	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C844	nsp	CK73F1E104ZT +1608			
	C845	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C901	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C908	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C909	nsp	CK73F1E104ZT +1608			
	C910	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C911	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C912	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C913	00MOA476016Z0	ROS-16V 470M - G3#PE - T2 (47UF 16V)			
	C914	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C915	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C916	nsp	CK73F1E104ZT +1608			
	C917	nsp	CK73F1E104ZT +1608			
	C918	nsp	1000PF J 100V APSV			
	C919	nsp	1000PF J 100V APSV			
	C920	nsp	1000PF J 100V APSV			
	C921	nsp	1000PF J 100V APSV			
	C922	nsp	CK73F1E104ZT +1608			
	C923	nsp	CK73F1E104ZT +1608			
	C924	nsp	100PF J 100V APSV			
	C925	nsp	100PF J 100V APSV			
	C926	nsp	1000PF J 100V APSV			
	C927	nsp	1000PF J 100V APSV			
	C928	nsp	100PF J 100V APSV			
	C929	nsp	100PF J 100V APSV			
	C930	nsp	APSV 471J,470PF(TP) 100V PP			
	C931	nsp	APSV 471J,470PF(TP) 100V PP			
	C932	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C933	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C934	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C935	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C936	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C937	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C938	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C939	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C940	nsp	APSV 221J,220PF(TP) 100V PP			
	C941	nsp	APSV 221J,220PF(TP) 100V PP			
	C942	nsp	APSV 221J,220PF(TP) 100V PP			
	C943	nsp	CK73F1E104ZT +1608			
	C944	nsp	APSV 221J,220PF(TP) 100V PP			
	C945	nsp	CK73F1H103ZT +1608			
	C946	nsp	CK73F1E104ZT +1608			
	C947	nsp	CK73F1E104ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
OTHERS PARTS GROUP						
	AS101	00D4170476007	RADIATOR			
	AS102	447310014008S	RADIATOR(PUE26-25)			
	AS103	447310014015S	RADIATOR(PUE26-30)			
	CX021	nsp	2P VH CON BASE (White)			
	CX022	nsp	2P VH CON BASE (White)			
	CX042	nsp	4P CONN.BASE(KR-PH)			
	CX151	nsp	15P 160mm PH-SAN			
	CX178	nsp	17FMN-BMTTN-TFT			
	CX211	nsp	21FMN-BMTTN-A-TFT			
	CY032	nsp	3P CONN.BASE(KR-PH)			
	CY061	nsp	B6B-EH-TS (LF)(SN) 6P RADIAL TAPING JST			
	CY062	nsp	B6B-EH-TS (LF)(SN) 6P RADIAL TAPING JST			
	CY063	nsp	6P CONN.BASE(KR-PH)			
	CY178	nsp	17FMN-BMTTN-TFT			
	CY332	nsp	33P FFC BASE(FMNBMTT +C			
⚠	F101	00D2061099032	FUSE(0215002.MXP/250V)			
	FB401	nsp	E.FIL(BLM21PG221SN1)+2125			
	FB402	nsp	E.FIL(BLM21PG221SN1)+2125			
	FB403	nsp	E.FIL(BLM21PG221SN1)+2125			
	FB404	nsp	E.FIL(BLM21PG221SN1)+2125			
	FB405	nsp	E.FIL(BLM21PG221SN1)+2125			
	FB601	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB602	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB603	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB604	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB701	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB702	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB703	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB704	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB801	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB802	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB803	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB804	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB901	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB902	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB903	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB904	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FF101	nsp	FUSE CLIP(TAPE)			
	FH101	nsp	FUSE CLIP(TAPE)			
	JK401	00D2048260004	MINI JACK			
	JK402	00D2048260004	MINI JACK			
	JK403	00D2051305008	9P D-SUB CONNECTOR			
	JK601	00MYT02021540	YKC21-4013V RCA 2P AU(8L) FRONT SHIELDED			
	JK701	00MYT02021540	YKC21-4013V RCA 2P AU(8L) FRONT SHIELDED			
	JK801	00MYT02021540	YKC21-4013V RCA 2P AU(8L) FRONT SHIELDED			
	JK901	00MYT02021540	YKC21-4013V RCA 2P AU(8L) FRONT SHIELDED			
	L101	00D2390040011	L.FILTER(HR28R-E183)	U		
	L101	00D2390038078	L.FILTER(HR28R-E333)	N, R, S, K		
	L102	00D2320201008	COIL(C3B-A0577)			
	L103	111810025502S	CHR1048-120M-R			
	RL101	00D2140242014	RELAY(DLS5D1-O_M)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	RL102	682010007608S	RELAY(DQ12D1-0(M))			
	ST102	nsp	STYLE PIN			
⚠	T101	102010016007S	SW_TRANS(E3/J ST4282)	U		
⚠	T101	102010016014S	SW_TRANS(E2 ST4283)	N, R, S, K		
⚠	T102	101010072004S	POWER TRANS(MINI/E3)	U		
⚠	T102	101010072011S	POWER TRANS(MINI/E2)	N, R, S, K		
	W101	nsp	GND TERMINAL FOR PCB			
	W102	nsp	GND TERMINAL FOR PCB			
	W103	nsp	GND TERMINAL FOR PCB			
	W104	nsp	GND TERMINAL FOR PCB			
	W106	nsp	GND TERMINAL FOR PCB			
	W107	nsp	GND TERMINAL FOR PCB			
	W405	nsp	M1698-A NEJI TERMINAL			
	W701	nsp	GND TERMINAL FOR PCB			
	W702	nsp	M1698-A NEJI TERMINAL			
	W901	nsp	GND TERMINAL FOR PCB			
	W903	nsp	M1698-A NEJI TERMINAL			
		0RD4700012022	3X12 CPS SW W			
		0RD4700051009	3X8 CPS(SW,W) ZNP			

8U-210095A AUDIO POWER/VIDEO/FRONT PWB UNIT ASSY(U model)
8U-210095C AUDIO POWER/VIDEO/FRONT PWB UNIT ASSY(N, R, S, K model)

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC101	00D2623606902	PT6302-R-001(L)			
	IC102	00MHW10004210	RPM6936-V4 (IR SENSOR)			
	IC301	00D2623362903	PCM1796DBR			
	IC302,303	00D2630896909	NJM2068MD-TE1 +C			
⚠	IC304	00D2631227001	BA50BC0T			
	IC306	00D2630609002	NJM2068DDC +T			
	IC307	00D2630609002	NJM2068DDC +T			
	IC808	236810058609S	ADV7340BSTZ-3			
	IC809	00D2631273903	NJM2566AV			
	IC810	236810058609S	ADV7340BSTZ-3			
	IC811	00D2631282907	BD7820FP-E2			
	IC812	00D2631282907	BD7820FP-E2			
	TR101	00MBA20035210	DTC114EU			
	TR102	00MBA20035210	DTC114EU			
	TR103	00MHT30001000	C2458,C1740S,C3199,ETC.			
	TR104	00MBA10026210	DTA114EU			
	TR105	00MBA10026210	DTA114EU			
	TR301	00MBA20035210	DTC114EU			
	TR302	00MBA20035210	DTC114EU			
	TR303	00MBA10026210	DTA114EU			
	TR304	00MBA10026210	DTA114EU			
	TR305	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR306	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR307	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR308	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR309	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR310	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR311	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR312	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR313	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR314	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR315	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR316	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR317	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR318	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR319	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR320	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR321	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR322	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR323	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR324	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR325	00D2730460905	KTC2875-B-RTK/P			
	TR326	00D2730460905	KTC2875-B-RTK/P			
	TR327	00D2730460905	KTC2875-B-RTK/P			
	TR328	00D2730460905	KTC2875-B-RTK/P			
	TR331	00MHT30001000	C2458,C1740S,C3199,ETC.			
	TR332	00MHT30001000	C2458,C1740S,C3199,ETC.			
	TR333	00MBA20035210	DTC114EU			
	TR334	00MHT110482B0	2SA1048 Y OR GR TOSHIBA			
	TR335	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR336	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
⚠	TR337	00MHT41415100	TRANSISTOR 2SD1415			
⚠	TR338	00MHT21020100	2SB1020			
	TR339	00MHT800931A0	KTC3200 NPN TRANSISTOR RANK=GR			
	TR340	00MHT600121A0	KTA1268 PNP TRANSISTOR RANK=GR			
	TR822	00D2710293901	2SA1022-B +C			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	TR823	00D2710293901	2SA1022-B +C			
	TR824	00D2710293901	2SA1022-B +C			
	TR826	00D2710293901	2SA1022-B +C			
	TR827	00D2710293901	2SA1022-B +C			
	D101	00D2760401905	1SS133T77 (TAPE)			
	D301	00MHD20002710	1D3 1A/200V			
	D302	00MHD20002710	1D3 1A/200V			
	D303	00MHD20002710	1D3 1A/200V			
	D304	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D305	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D306	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D307	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D308	00MHD20002710	1D3 1A/200V			
	D309	00MHD20002710	1D3 1A/200V			
	D310	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D311	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D312	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D313	00MHD20003710	! SCHOTTKY 1S100 1A 100V RECTRON			
	D314	00D2760401905	1SS133T77 (TAPE)			
	D315	00D2760401905	1SS133T77 (TAPE)			
	D316	00D2760401905	1SS133T77 (TAPE)			
	D317	00D2760401905	1SS133T77 (TAPE)			
	D318	00MHD30021010	ZENER HZ6A3L(HITACHI)			
	D319	00MHD30021010	ZENER HZ6A3L(HITACHI)			
	D320	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	D321	00MHZ21005000	1SS301 DAN202U UMT TYPE			
	D322	00D2760401905	1SS133T77 (TAPE)			
	D323	00D2760401905	1SS133T77 (TAPE)			
	D324	00D2760401905	1SS133T77 (TAPE)			
	D325	00D2760401905	1SS133T77 (TAPE)			
	D801	00D2760794900	KDS160-RTK/P			
	D802	00D2760794900	KDS160-RTK/P			
	LD101	00MHI10115210	SLR-342VRTB7 RED TAPING			
	LD102	00MHI10115210	SLR-342VRTB7 RED TAPING			
	LD103	263010032409S	SIR-341STA49			
	FL101	00D3938098000	FL TUBE(15-BT-114GNK)			
RESISTORS GROUP						
	RE921	00D2472032905	RM73B-750DT(1608)			
	RE923	00D2472032905	RM73B-750DT(1608)			
	RE925	00D2472032905	RM73B-750DT(1608)			
	RE927	00D2472032905	RM73B-750DT(1608)			
	RE929	00D2472032905	RM73B-750DT(1608)			
	RE931	00D2472032905	RM73B-750DT(1608)			
CAPACITORS GROUP						
	C102	nsp	CK73F1H103ZT +1608			
	C104	nsp	CC73CH1H101JT +1608			
	C105	nsp	CC73CH1H101JT +1608			
	C106	nsp	CC73CH1H101JT +1608			
	C107	nsp	CK73F1H103ZT +1608			
	C108	nsp	CK73F1H103ZT +1608			
	C109	nsp	CK73F1H103ZT +1608			
	C110	nsp	CK73F1E104ZT +1608			
	C111	nsp	CK73F1E104ZT +1608			
	C112	nsp	CC73CH1H390JT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C113	nsp	CK73F1H103ZT +1608			
	C114	nsp	CK73F1E104ZT +1608			
	C115	nsp	CC73CH1H331JT +1608			
	C116	nsp	CK73F1E104ZT +1608			
	C117	nsp	CK73F1E104ZT +1608			
	C118	nsp	100UF/6.3V			
	C119	nsp	100UF/6.3V			
	C120	nsp	CK73F1H103ZT +1608			
	C301	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C308	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C309	nsp	CK73F1E104ZT +1608			
	C310	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C311	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C312	nsp	0.1UF 50V +- 5% MTFVA0050J104			
⚠	C313	00MOA33801620	3300UF 16V RA2 TYPE			
	C314	nsp	CK73B1H102KT +1608			
	C315	nsp	CK73F1E104ZT +1608			
	C316	nsp	CK73F1E104ZT +1608			
	C317	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C318	00MOA476016Z0	ROS-16V 470M - G3#PE - T2 (47UF 16V)			
	C319	00MOA476016Z0	ROS-16V 470M - G3#PE - T2 (47UF 16V)			
	C320	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C321	00MOA107025R0	ROA-25V 101M -H4#PE - T2 (100UF 25V)			
	C322	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C323	nsp	1000PF J 100V APSV			
	C324	nsp	1000PF J 100V APSV			
	C325	nsp	1000PF J 100V APSV			
	C326	nsp	1000PF J 100V APSV			
	C327	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C328	nsp	0.1UF 50V +- 5% MTFVA0050J104			
	C329	nsp	CK73B1H102KT +1608			
	C330	nsp	RM73B--0R0KT +1608			
	C331	nsp	RM73B--0R0KT +1608			
	C335	nsp	100PF J 100V APSV			
	C336	nsp	100PF J 100V APSV			
	C337	nsp	1000PF J 100V APSV			
	C338	nsp	1000PF J 100V APSV			
	C339	00MOA22801620	2200UF 16V			
	C340	nsp	100PF J 100V APSV			
	C341	nsp	APSV 221J,220PF(TP) 100V PP			
	C342	nsp	APSV 471J,470PF(TP) 100V PP			
	C343	nsp	APSV 221J,220PF(TP) 100V PP			
	C344	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C345	nsp	470UF 16V M RA-2			
	C346	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C347	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			
⚠	C348	00MOB33802570	3300U 25V(ALP) (LF)-BLOCK CAP			
⚠	C349	00MOB33802570	3300U 25V(ALP) (LF)-BLOCK CAP			
	C350	00MOA106025R0	ROA-25V 100M - E3#PE - T2 (10UF 25V)			
	C351	00MOA106025R0	ROA-25V 100M - E3#PE - T2 (10UF 25V)			
	C352	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			
	C353	00MOA227016R0	ROA-16V 221M -H4#PE - T2 (220UF 16V)			
	C354	nsp	APSV 221J,220PF(TP) 100V PP			
	C355	nsp	APSV 221J,220PF(TP) 100V PP			
	C356	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C357	nsp	CK73F1E104ZT +1608			
	C358	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C359	nsp	CK73F1E104ZT +1608			
	C360	nsp	CK73F1E104ZT +1608			
	C361	nsp	100PF J 100V APSV			
	C362	nsp	CK73F1E104ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C363	nsp	APSV 471J,470PF(TP) 100V PP			
	C365	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C367	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C369	00MOA227025R0	ROA-25V 221M -H5#PE - T2 (220UF 25V)			
	C371	00MOA227016Z0	ROS-16V 221M - H5#PE - T2 (220UF 16V)			
	C574	nsp	CK73F1E104ZT +1608			
	C575	00D2572019909	CS77B0J470MT(NOJ)			
	C576	nsp	CK73F1E104ZT +1608			
	CC240	00D2570038908	CK73B1A106KT +2125			
	CC241	nsp	CK73B1E103KT(1005)			
	CC242	nsp	CK73B1H102KT +1005			
	CC243	nsp	CK73B1H102KT +1005			
	CC244	nsp	CK73B1A104KT +1005			
	CC245	00D2570038908	CK73B1A106KT +2125			
	CC246	nsp	CK73B1E103KT(1005)			
	CC249	00D2570038908	CK73B1A106KT +2125			
	CC250	nsp	CK73B1H102KT +1005			
	CC251	nsp	CK73B1A104KT +1005			
	CC252	nsp	CK73B1A104KT +1005			
	CC254	nsp	CK73B1H123KT +1608			
	CC255	nsp	CK73B1A104KT +1005			
	CC256	nsp	CK73B1A154KT +1608			
	CC257	nsp	CK73B1H102KT +1005			
	CC258	nsp	CK73B1A104KT +1005			
	CC259	nsp	CK73B1H102KT +1005			
	CC260	00D2570038908	CK73B1A106KT +2125			
	CC261	nsp	CK73B1A104KT +1005			
	CC262	nsp	CK73B1E103KT(1005)			
	CC263	nsp	CK73B1E103KT(1005)			
	CC264	nsp	CK73B1E103KT(1005)			
	CC265	00D2570038908	CK73B1A106KT +2125			
	CC266	nsp	CK73B1E103KT(1005)			
	CC267	nsp	CK73B1A104KT +1005			
	CC268	nsp	CK73B1H102KT +1005			
	CC269	nsp	CK73B1H123KT +1608			
	CC270	nsp	CK73B1A154KT +1608			
	CC271	nsp	CK73B1H102KT +1005			
	CC272	nsp	CK73B1A104KT +1005			
	CC273	nsp	CK73B1A104KT +1005			
	CC274	00D2570038908	CK73B1A106KT +2125			
	CC275	nsp	CK73B1A104KT +1005			
	CC276	nsp	CK73B1H102KT +1005			
	CC277	nsp	CK73B1H102KT +1005			
	CC278	nsp	CK73B1A104KT +1005			
	CC279	nsp	CK73B1E103KT(1005)			
	CC283	nsp	CK73B1A104KT +1005			
	CC284	nsp	CK73B1A104KT +1005			
	CC285	nsp	CK73B1A104KT +1005			
	CC288	00D2570525903	CK73B0J475KT(P) +1608			
	CC289	nsp	CK73B1H102KT +1005			
	CC290	00D2572018900	CS77B1A100MT(NOJ)			
	CC291	00D2572018900	CS77B1A100MT(NOJ)			
	CC292	nsp	CK73B1A104KT +1005			
	CC801	00D2570038908	CK73B1A106KT +2125			
	CC802	nsp	CK73B1E103KT(1005)			
	CC803	nsp	CK73B1H102KT +1005			
	CC804	nsp	CK73B1H102KT +1005			
	CC805	nsp	CK73B1A104KT +1005			
	CC806	00D2570038908	CK73B1A106KT +2125			
	CC807	nsp	CK73B1E103KT(1005)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	CC811	nsp	CK73B1H123KT +1608			
	CC812	nsp	CK73B1A154KT +1608			
	CC814	nsp	CK73B1A104KT +1005			
	CC815	nsp	CK73B1H102KT +1005			
	CC816	00D2570038908	CK73B1A106KT +2125			
	CC817	nsp	CK73B1E103KT(1005)			
	CC818	nsp	CK73B1E103KT(1005)			
	CC819	nsp	CK73B1E103KT(1005)			
	CC820	nsp	CK73B1E103KT(1005)			
	CC821	nsp	CK73B1A104KT +1005			
	CC822	nsp	CK73B1H123KT +1608			
	CC823	nsp	CK73B1A154KT +1608			
	CC824	00D2570038908	CK73B1A106KT +2125			
	CC825	nsp	CK73B1A104KT +1005			
	CC826	nsp	CK73B1H102KT +1005			
	CC829	nsp	CK73B1A104KT +1005			
	CC830	nsp	CK73B1A104KT +1005			
	CC831	00D2570525903	CK73B0J475KT(P) +1608			
	CC832	nsp	CK73B1A104KT +1005			
	CC833	00D2572018900	CS77B1A100MT(NOJ)			
	CC834	00D2572018900	CS77B1A100MT(NOJ)			
	CC835	nsp	CK73B1A104KT +1005			
	CC850	nsp	CK73B1A104KT +1005			
	CC851	00D2570038908	CK73B1A106KT +2125			
	CC852	00D2570038908	CK73B1A106KT +2125			
	CC853	00D2570038908	CK73B1A106KT +2125			
	CC854	00D2570038908	CK73B1A106KT +2125			
	CC856	00D2572018900	CS77B1A100MT(NOJ)			
	CC857	nsp	CK73B1A104KT +1005			
	CC858	nsp	CK73B1E103KT(1005)			
	CC859	nsp	CK73B1A104KT +1005			
	CC860	nsp	CK73B1A104KT +1005			
	CC861	nsp	CK73B1A104KT +1005			
	CC862	nsp	CK73B1A104KT +1005			
	CC863	nsp	CK73B1A104KT +1005			
	CC975	00D2544533950	CE04W0J471MT SMG/RE3			
	CC980	00D2544533950	CE04W0J471MT SMG/RE3			
	CC982	00D2544533950	CE04W0J471MT SMG/RE3			
	CC984	00D2544533950	CE04W0J471MT SMG/RE3			
	CC986	00D2544533950	CE04W0J471MT SMG/RE3			
OTHERS PARTS GROUP						
	AS301	nsp	HEAT SINK			
	AS302	nsp	SCREW			
	AS303	nsp	HEAT SINK			
	AS304	nsp	HEAT SINK			
	AS305	nsp	SCREW			
	AS306	nsp	SCREW			
	CX033	nsp	S3B-PH-K-S (LF)(SN)			
	CX041	nsp	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING			
	CX061	nsp	B6B-EH-TS (LF)(SN) 6P RADIAL TAPING JST			
	CX062	nsp	B6B-EH-TS (LF)(SN) 6P RADIAL TAPING JST			
	CX131	644810105502S	SD CARD SLOT DM1AA SF PEJ(82)			
	CX155	nsp	15P FFC BASE SIDE(P=0.5MM)			
	CX183	nsp	18FMN-BTK			
	CX211	nsp	21FMN-BMTTN-A-TFT			
	CX505	nsp	50FY-BMT-TB(LF)(SN)			
	CY022	nsp	CONNECTOR 2P B3P-VH			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	CY031	nsp	B3B-PH-K-S (LF)(SN)			
	CY033	nsp	B3B-PH-K-S (LF)(SN)			
	CY041	nsp	B4B-EH-TS (LF)(SN) 4P RADIAL TAPING			
	CY042	nsp	4P CONN.BASE(KR-PH)			
	CY241	nsp	24FMN-BMTTN-A-TFT			
	CY331	nsp	33P FFC BASE(FMNBMTT +C			
⚠	F301	00MFS20050200	# T500MA/250V TR5 NO.19372(TP)			
⚠	F302	00MFS20050200	# T500MA/250V TR5 NO.19372(TP)			
⚠	F303	00MFS20100200	# FUSE 1A 250V SEMKO VDE			
⚠	F304	00MFS20100200	# FUSE 1A 250V SEMKO VDE			
	FB301	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB302	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB303	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB304	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB305	nsp	BL02RN2-R62T2 FERRITE BEAD			
	FB802	nsp	FBMJ1608HS280NT +1608			
	FB803	nsp	FBMJ1608HS280NT +1608			
	FB804	nsp	FBMJ1608HS280NT +1608			
	FB805	nsp	FBMJ1608HS280NT +1608			
	FB811	nsp	FBMJ1608HS280NT +1608			
	FB812	nsp	FBMJ1608HS280NT +1608			
	FB813	nsp	FBMJ1608HS280NT +1608			
	FB814	nsp	FBMJ1608HS280NT +1608			
	FB889	nsp	FBMJ1608HS280NT +1608			
	FB899	nsp	FBMJ1608HS280NT +1608			
	JK101	00MYT02020890	YKC21-3046V 2P RCA PIN JACK			
	JK301	00MYT02011000	1P RCA PIN JACK T6782-AAAB			
	JK302	00MYT02011000	1P RCA PIN JACK T6782-AAAB			
	JK901	00D2048728009	1P PIN JACK(BK)-LF			
	JK902	00D2048728009	1P PIN JACK(BK)-LF			
	JK903	00D2048728009	1P PIN JACK(BK)-LF			
	JK904	00D2048728009	1P PIN JACK(BK)-LF			
	JK905	00D2051395005	1P S-TERMINAL-LF			
	L803	00D2350125905	INDUCTOR(FLC32C220K)+3216			
	L806	00D2350125905	INDUCTOR(FLC32C220K)+3216			
	L901	00D2350125905	INDUCTOR(FLC32C220K)+3216			
	S101	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S102	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S103	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S104	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S105	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S106	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S107	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S108	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S109	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S110	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S111	00MSP01013370	EVQ11L05R H/5MM 160GF			
	S112	00MSS01020930	SSSF112-S06N1			
⚠	T305	101010077009M	# POWER TRANSFORMER AC120V EI48-23	U		*
⚠	T305	101010075003M	# POWER TRANSFORMER AC230V EI48-23	N, S, K, R		*
	W301	nsp	M1698-A NEJI TERMINAL			
	W302	nsp	GND TERMINAL FOR PCB			
	W506	nsp	M3 SCREW TERMINAL			
	W508	nsp	M3 SCREW TERMINAL			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	W913	nsp	M1698-A NEJI TERMINAL			
	100-B	471510027005M	BUFFER IR UD9004 37AK			
	202-L	nsp	RUBBER SHEET			
	RS301	00D2473010900	RM73B--472JT+1005			
	RS303	00D2473001906	RM73B--0R0KT+1005			
	RS304	00D2473001906	RM73B--0R0KT+1005			
	RS305	00D2473001906	RM73B--0R0KT+1005			
	RS306	00D2472042937	RM73B--153DT(1608)			
	RS307	00D2472036943	RM73B--273DT(1608)			
	RS308	00D2472036956	RM73B--303DT(1608)			
	RS309	00D2473010984	RM73B--103JT +1005			
	RS312	00D2473007926	RM73B--331JT			
	RS313	nsp	RM73B--0R0KT +1608			
	RS314	nsp	RM73B--0R0KT +1608			
	RS315	nsp	RM73B--0R0KT +1608			
	RS316	nsp	RM73B--0R0KT +1608			
	RS317	nsp	RM73B--0R0KT +1608			
	RS318	nsp	RM73B--0R0KT +1608			
	RS319	nsp	RM73B--0R0KT +1608			
	RS320	nsp	RM73B--0R0KT +1608			
	RS321	nsp	RM73B--0R0KT +1608			
	RS322	nsp	RM73B--0R0KT +1608			
	RS324	00D2473007926	RM73B--331JT			
	RS326	nsp	RM73B--0R0KT +1608			
	RS327	00D2473010900	RM73B--472JT+1005			
	RS328	00D2472034903	RM73B--511DT(1608)			
	RS331	00D2473001906	RM73B--0R0KT+1005			
	RS332	00D2473001906	RM73B--0R0KT+1005			
	RS333	00D2473001906	RM73B--0R0KT+1005			
	RS334	00D2473001906	RM73B--0R0KT+1005			
	RS335	00D2473001906	RM73B--0R0KT+1005			
	RS336	00D2473001906	RM73B--0R0KT+1005			
	RS338	00D2472036914	RM73B--203DT(1608)			
	RS339	00D2472037968	RM73B--823DT(1608)			
	RS340	00D2473007926	RM73B--331JT			
	RS342	00D2472036956	RM73B--303DT(1608)			
	RS343	00D2472005987	RM73B--221JT +1608			
	RS344	00D2472005987	RM73B--221JT +1608			
	RS345	00D2472005987	RM73B--221JT +1608			
	RS346	00D2473007926	RM73B--331JT			
	RS347	nsp	RM73B--0R0KT +1608			
	RS348	00D2472032905	RM73B--750DT(1608)			
	RS349	nsp	RM73B--0R0KT +1608			
	RS350	00D2472032905	RM73B--750DT(1608)			
	RS351	nsp	RM73B--0R0KT +1608			
	RS352	00D2472032905	RM73B--750DT(1608)			
	RS353	00D2472032905	RM73B--750DT(1608)			
	RS354	00D2472032905	RM73B--750DT(1608)			
	RS355	00D2472032905	RM73B--750DT(1608)			
	RS356	00D2472003989	RM73B--330JT +1608			
	RS357	00D2472003989	RM73B--330JT +1608			
	RS358	00D2472003989	RM73B--330JT +1608			
	RS359	00D2472007985	RM73B--152JT +1608			
	RS360	00D2472007985	RM73B--152JT +1608			
	RS361	00D2472007985	RM73B--152JT +1608			
	RS365	nsp	RM73B--0R0KT +1608			
	RS366	nsp	RM73B--0R0KT +1608			
	RS367	nsp	RM73B--0R0KT +1608			
	RS370	00D2473001906	RM73B--0R0KT+1005			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	RS371	00D2473001906	RM73B--0R0KT+1005			
	RS372	00D2473001906	RM73B--0R0KT+1005			
	RS401	00D2473001906	RM73B--0R0KT+1005			
	RS402	00D2473001906	RM73B--0R0KT+1005			
	RS404	00D2473010900	RM73B--472JT+1005			
	RS406	00D2473001906	RM73B--0R0KT+1005			
	RS407	00D2473001906	RM73B--0R0KT+1005			
	RS408	00D2473001906	RM73B--0R0KT+1005			
	RS409	00D2473001906	RM73B--0R0KT+1005			
	RS412	00D2473007926	RM73B--331JT			
	RS413	nsp	RM73B--0R0KT +1608			
	RS414	nsp	RM73B--0R0KT +1608			
	RS415	nsp	RM73B--0R0KT +1608			
	RS416	nsp	RM73B--0R0KT +1608			
	RS417	nsp	RM73B--0R0KT +1608			
	RS418	nsp	RM73B--0R0KT +1608			
	RS419	nsp	RM73B--0R0KT +1608			
	RS420	nsp	RM73B--0R0KT +1608			
	RS421	nsp	RM73B--0R0KT +1608			
	RS422	nsp	RM73B--0R0KT +1608			
	RS423	00D2473007926	RM73B--331JT			
	RS425	00D2472041925	RM73B--472DT(1608)			
	RS426	nsp	RM73B--0R0KT +1608			
	RS427	00D2472036969	RM73B--333DT(1608)			
	RS428	00D2472006973	RM73B--511JT +1608			
	RS431	00D2473006985	RM73B--221JT +1005			
	RS432	00D2473006985	RM73B--221JT +1005			
	RS433	00D2473006985	RM73B--221JT +1005			
	RS434	00D2472005987	RM73B--221JT +1608			
	RS435	00D2473001906	RM73B--0R0KT+1005			
	RS436	00D2473001906	RM73B--0R0KT+1005			
	RS438	00D2473007926	RM73B--331JT			
	RS439	00D2473007926	RM73B--331JT			
	RS440	nsp	RM73B--0R0KT +1608			
	RS441	00D2472033946	RM73B--301DT(1608)			
	RS442	nsp	RM73B--0R0KT +1608			
	RS443	00D2472033946	RM73B--301DT(1608)			
	RS446	00D2472003989	RM73B--330JT +1608			
	RS447	00D2472003989	RM73B--330JT +1608			
	RS448	00D2472007985	RM73B--152JT +1608			
	RS449	00D2472007985	RM73B--152JT +1608			
	RS452	nsp	RM73B--0R0KT +1608			
	RS453	nsp	RM73B--0R0KT +1608			
	RS457	00D2473001906	RM73B--0R0KT+1005			
	RS458	00D2473001906	RM73B--0R0KT+1005			

8U-310041AY MAIN PWB UNIT ASSY(U model)
8U-310041CY MAIN PWB UNIT ASSY(N model)
8U-310041DY MAIN PWB UNIT ASSY(R model)
8U-310041EY MAIN PWB UNIT ASSY(S model)
8U-310041FY MAIN PWB UNIT ASSY(K model)

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC101	nsp	R8A34019BG			
	IC102-105	nsp	K4T1G084QQ-HCE6			
	IC106	231810080502S	BD3531F-FE2			
	IC107,108	nsp	K4T51163QG-HCE6			
	IC109	231810080502S	BD3531F-FE2			
	IC110	nsp	BE ROM SUB ASSY(UD8004) (S29GL01GP11TFCR20#)			*
	IC112	00D2623272909	SN74LVC1G08DBV +C			
	IC158	246810031601S	W9825G6EH-6J			
	IC159	nsp	WEB CONTROL ROM ASSY(UD8004) (NAND01GW3B2CN6E)			*
	IC201	00D2623595903	SN74LV594APWR			
	IC202,203	00D2623436907	TC74VHC244FT			
	IC204	00D2623595903	SN74LV594APWR			
	IC205	231810079502S	MP2209DL-LF-Z			
	IC206-208	231810078509S	MP2208DL-LF-Z			
	IC209	231810079502S	MP2209DL-LF-Z			
	IC351	nsp	EP3C16F256C8N			
	IC352	00D2622977917	BA25BC0FP-E2			
	IC354	00D2623326907	EPCS4SI8			
	IC502	00D2623719006	SII9134CTU			
	IC551	246810009604S	W9864G2GH-6			
	IC552	245010023605S	ADSP21367KSWZ2A1179			
	IC553	nsp	DSP ROM SUB ASSY (W19B160BBT7H)			
	IC601	233810001505S	PCA9539PW,188			
	IC652	00D2623449004	LC89057W-VF4A			
	IC656	0RD2690244009	GP1FAV55TK0F			
	IC702	231810079502S	MP2209DL-LF-Z			
	IC703	231810050501D	BD18KA5FP-E2			
	IC704-706	nsp	BU7331EKN-E2			
	IC707	236810028509S	SN74LVC04APW-EL2			
	IC709,710	00D2623277904	SN74LVC157APW-EL2 +C			
	IC711	231810080502S	BD3531F-FE2			
	IC714	236010048501D	SN74LVC74APWR			
	IC715	239010021505S	SM8707HV-G-E2			
	IC718	239010019502D	BU2365FV-E2			
	IC719	239010020502D	SM5158AM-G-E2			
	IC751	nsp	EPM570F256C5N			
	IC800	nsp	DM860			
	IC851	00D2623082924	BD4730G-TR			
	IC852	nsp	S-24CS08AFJ-TB +C			
	IC853	8R2411002800M	SYSTEM ROM SUB ASSY(UD8004) (R5F364VDNFB)			*
	IC854,855	00D2623277904	SN74LVC157APW-EL2 +C			
	IC901	nsp	LAN9313-NZW			
	IC902	103810002508S	PULSE-TRANS(S558-5999-U-7-F)			
	IC905	103810002508S	PULSE-TRANS(S558-5999-U-7-F)			
	IC920	nsp	LAN8700-AEZG-TR			
	IC921	00D2631240907	BA33B00FP-E2			
	IC944,945	nsp	K4T51163QG-HCE7			
	IC951	nsp	ABT2015			

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

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	TR551	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR552	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR555	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR651	00D2730487904	2SC2412K_T146R			
	TR851	00D2690054901	DTC144EKT96 +C			
	TR852	00D2720160901	2SB1132T100Q +C			
	TR853	00D2750109903	2SK3019-TL			
	TR854,855	00D2690082902	DTC114EKT96 +C			
	TR856	00D2690054901	DTC144EKT96 +C			
	TR857	00D2720160901	2SB1132T100Q +C			
	TR858	00D2690184907	KRA102S-RTK/P (10K-10K)			
	TR859	00D2690192902	KRC102S-RTK/P (10K-10K)			
	TR860	00D2690184907	KRA102S-RTK/P (10K-10K)			
	D504-508	00D2760833900	ESD PROTECTOR(6802)			
	D509-516	251210003505S	AVRL161A1R1NTB			
	D701	00D2760717903	1SS355 TE-17 +C			
	D801	00D2760750902	RB521S-30TE61 +REF			
	D851,852	00D2760717903	1SS355 TE-17 +C			
	D906	00D2760717903	1SS355 TE-17 +C			
	ZD501	00D2760683930	UDZS5.1B-TE17 +C			
RESISTORS GROUP						
	R104-107	129250013504S	RM73B-820FT(1005)			
	R160-163	129250013504S	RM73B-820FT(1005)			
	R203-206	129250013504S	RM73B-820FT(1005)			
	R540	129350038519S	RM73B-9532FT(1608)			
	R546	129350038502S	RM73B-4993FT(1608)			
	R550	129350038502S	RM73B-4993FT(1608)			
	R552	00D2472040926	RM73B-105DT(1608)			
	R583	129350038502S	RM73B-4993FT(1608)			
	R587	129350038502S	RM73B-4993FT(1608)			
	R588	129350038540S	RM73B-1583FT(1608)			
	R590	129350038526S	RM73B-4023FT(1608)			
	R593	129350038502S	RM73B-4993FT(1608)			
	R597	129350038533S	RM73B-1334FT(1608)			
	R765	129250020502S	RM73B-823FT(1005)			
	R783	129250018509S	RM73B-274FT(1005)			
	R914	00D2472028906	RM73B-302FT +1608			
	RE165	00D2472035957	RM73B-222DT(1608)			
	RE166	00D2472031977	RM73B-510DT(1608)			
	RE250	00D2472033959	RM73B-331DT(1608)			
	RE251	00D2472035960	RM73B-272DT(1608)			
	RE254-257	00D2472019902	RM73B--102FT +1608			
	RE281,282	00D2472019902	RM73B-102FT +1608			
	RE285,286	00D2472019902	RM73B-102FT +1608			
	RR165	119210004529S	MMZ1005D121C			
	RR189	119210004529S	MMZ1005D121C			
	RR334	119210004529S	MMZ1005D121C			
	RR336	119210004529S	MMZ1005D121C			
	RR711	129350038564S	RM73B-2004FT(1608)			
	RR713	129350038502S	RM73B-4993FT(1608)			
	RA150-154	126210001597S	MNR04=220(1005X4)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	RA155-160	126210003524S	MNR04=750(1005X4)			
	RA200-205	126210001597S	MNR04=220(1005X4)			
	RA206-211	126210003524S	MNR04=750(1005X4)			
	RA250-253	00D2479007917	MNR14=103JE0 +C			
	RA300-303	126210009515S	MNR04=223(1005X4)			
	RA400-405	126210001504S	MNR04=000(1005X4)			
	RA415-420	126210003593S	MNR04=151(1005X4)			
	RA501-509	126210003593S	MNR04=151(1005X4)			
	RA510-516	00D2479009902	MNR04=330(1005x4)			
	R706	00D2472018903	RM73B--0R0KT +1608/	U, S		
	R707	00D2472018903	RM73B--0R0KT +1608/	U		
	R709	00D2472006902	RM73B--331JT (1608) +1608/	N		
	R709	00D2472006915	RM73B--271JT +1608/	K, R		
	R710	00D2472005945	RM73B--151JT +1608/	N		
	R710	00D2472004962	RM73B--680JT +1608/	R		
	R710	00D2472006902	RM73B--331JT (1608) +1608/	S		
	R710	00D2472005961	RM73B--181JT +1608/	K		
	R712	00D2472018903	RM73B--0R0KT +1608/	N, K, R		
	R713	00D2472018903	RM73B--0R0KT +1608/	N, K, R, S		
	R714	00D2472018903	RM73B--0R0KT +1608/	N		
	R714	00D2472006902	RM73B--331JT (1608) +1608/	K, R		
	R716	00D2472018903	RM73B--0R0KT +1608/	N		
	R716	00D2472006915	RM73B--271JT +1608/	S		
	R716	00D2472007998	RM73B--162JT +1608/	R		
	R716	00D2472008942	RM73B--272JT +1608/	K		
CAPACITORS GROUP						
	C101-122	00D2575009974	CK73F1C104ZT +1005			
	C123	nsp	CK73B1E103KT(1005)			
	C124	00D2575009974	CK73F1C104ZT +1005			
	C125-127	nsp	CK73B1E103KT(1005)			
	C128-130	00D2575009974	CK73F1C104ZT +1005			
	C131-133	nsp	CK73B1E103KT(1005)			
	C134-141	00D2575009974	CK73F1C104ZT +1005			
	C150-165	00D2575009974	CK73F1C104ZT +1005			
	C166	00D2572019909	CS77B0J470MT(NOJ)			
	C167-170	00D2575009974	CK73F1C104ZT +1005			
	C171	00D2572019909	CS77B0J470MT(NOJ)			
	C172-194	00D2575009974	CK73F1C104ZT +1005			
	C200-211	00D2575009974	CK73F1C104ZT +1005			
	C212	00D2572019909	CS77B0J470MT(NOJ)			
	C213	00D2575009974	CK73F1C104ZT +1005			
	C214	00D2572019909	CS77B0J470MT(NOJ)			
	C215-236	00D2575009974	CK73F1C104ZT +1005			
	C250	00D2575009974	CK73F1C104ZT +1005			
	C252	00D2570039910	CK73B0J226MT			
	C253,254	00D2575009974	CK73F1C104ZT +1005			
	C255	00D2570039910	CK73B0J226MT			
	C260-263	00D2575009974	CK73F1C104ZT +1005			
	C270	nsp	CK73F1E104ZT +1608			
	C271	nsp	CK73F1H103ZT +1608			
	C272	00D2574012933	CE67C1C101MT (RV2) +REF			
	C273,274	00D2570525903	CK73B0J475KT(P) +1608			
	C275	nsp	CK73F1E104ZT +1608			
	C276	nsp	CK73F1H103ZT +1608			
	C277	nsp	CK73B1H102KT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C278,279	00D2570039910	CK73B0J226MT			
	C280	nsp	CK73F1H103ZT +1608			
	C281	132350030504S	CK73B1C225KT 1608			
	C282	nsp	CK73F1E104ZT +1608			
	C283	nsp	GRM32EB31C476KE15L			
	C284	nsp	CK73F1H103ZT +1608			
	C285	nsp	CK73B1H102KT +1608			
	C286,287	00D2570525903	CK73B0J475KT(P) +1608			
	C288	nsp	CK73F1E104ZT +1608			
	C289	nsp	CK73F1H103ZT +1608			
	C290	nsp	CK73B1H102KT +1608			
	C291,292	00D2570039910	CK73B0J226MT			
	C293,294	nsp	CK73F1H103ZT +1608			
	C295	nsp	CK73B1H102KT +1608			
	C296,297	nsp	CK73F1E104ZT +1608			
	C298	00D2570039910	CK73B0J226MT			
	C299	nsp	CK73F1H103ZT +1608			
	C300,301	00D2570039910	CK73B0J226MT			
	C302	nsp	CK73F1E104ZT +1608			
	C303	00D2570039910	CK73B0J226MT			
	C304	132350030504S	CK73B1C225KT 1608			
	C305	nsp	CK73B1H103KT (1608) +1608			
	C306	132350030504S	CK73B1C225KT 1608			
	C307	nsp	CK73F1H103ZT +1608			
	C308	nsp	CK73B1E223KT +1608			
	C309	132350030504S	CK73B1C225KT 1608			
	C310	nsp	GRM32EB31C476KE15L			
	C311	132350030504S	CK73B1C225KT 1608			
	C312	nsp	CK73F1E104ZT +1608			
	C313	nsp	GRM32EB31C476KE15L			
	C314	nsp	CK73F1H103ZT +1608			
	C315,316	nsp	CK73B1H102KT +1608			
	C317	nsp	CK73F1H103ZT +1608			
	C318	nsp	CK73F1E104ZT +1608			
	C319	nsp	GRM32EB31C476KE15L			
	C320	nsp	CK73F1E104ZT +1608			
	C321-323	00D2570039910	CK73B0J226MT			
	C324	nsp	CK73F1E104ZT +1608			
	C325,326	00D2570039910	CK73B0J226MT			
	C327	nsp	CK73F1E104ZT +1608			
	C328,329	00D2570525903	CK73B0J475KT(P) +1608			
	C330	nsp	CK73B1E103KT(1005)			
	C338-340	nsp	CK73F1E104ZT +1608			
	C341	nsp	CK73F1H103ZT +1608			
	C342	nsp	CK73B1H102KT +1608			
	C343,344	nsp	GRM32EB31C476KE15L			
	C345	nsp	CK73F1H103ZT +1608			
	C346	nsp	CK73F1E104ZT +1608			
	C347	nsp	CK73F1H103ZT +1608			
	C348	nsp	GRM32EB31C476KE15L			
	C349-354	nsp	CK73F1E104ZT +1608			
	C355-359	00D2570513902	CK73F1A105ZT +1608			
	C360,361	nsp	CK73F1H103ZT +1608			
	C362,363	nsp	CK73F1E104ZT +1608			
	C364,365	132350030504S	CK73B1C225KT 1608			
	C366-369	nsp	CK73F1E104ZT +1608			
	C370,371	132350030504S	CK73B1C225KT 1608			
	C402	00D2575009974	CK73F1C104ZT +1005			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C403	00D2544655906	CE67C0J220MT (RV2) +REF			
	C405	00D2575009974	CK73F1C104ZT +1005			
	C406	00D2570039910	CK73B0J226MT			
	C407	00D2575009974	CK73F1C104ZT +1005			
	C408	00D2570039910	CK73B0J226MT			
	C409	00D2575009974	CK73F1C104ZT +1005			
	C411,412	00D2575009974	CK73F1C104ZT +1005			
	C413,414	00D2575003909	CC73CH1H220JT +1005			
	C415,416	00D2575002900	CC73CH1H8R0DT +1005			
	C417,418	00D2575009974	CK73F1C104ZT +1005			
	C420	00D2575009974	CK73F1C104ZT +1005			
	C421	00D2570039910	CK73B0J226MT			
	C422	00D2575009974	CK73F1C104ZT +1005			
	C423	00D2571020915	CK73B1H225KT			
	C424	00D2575009974	CK73F1C104ZT +1005			
	C425	00D2572018900	CS77B1A100MT(NOJ)			
	C426	00D2575009974	CK73F1C104ZT +1005			
	C427	00D2572018900	CS77B1A100MT(NOJ)			
	C429	nsp	CC73CH1H101JT +1005			
	C431,432	00D2575002926	CC73CH1H100DT +1005			
	C433,434	00D2575002900	CC73CH1H8R0DT +1005			
	C435	00D2575009974	CK73F1C104ZT +1005			
	C436	00D2572018900	CS77B1A100MT(NOJ)			
	C437	nsp	CK73B1H102KT +1005			
	C451-457	00D2575006951	CK73B1H471KT +1005			
	C458	00D2570038908	CK73B1A106KT +2125			
	C459	00D2575006951	CK73B1H471KT +1005			
	C460	00D2570038908	CK73B1A106KT +2125			
	C461	00D2575006951	CK73B1H471KT +1005			
	C464	00D2570038908	CK73B1A106KT +2125			
	C465	00D2575006951	CK73B1H471KT +1005			
	C466	00D2570038908	CK73B1A106KT +2125			
	C467	00D2575006951	CK73B1H471KT +1005			
	C472-478	00D2575009974	CK73F1C104ZT +1005			
	C503	00D2575009974	CK73F1C104ZT +1005			
	C504	nsp	CK73B1H102KT +1005			
	C505	00D2575009974	CK73F1C104ZT +1005			
	C506	00D2572018900	CS77B1A100MT(NOJ)			
	C518	00D2575009974	CK73F1C104ZT +1005			
	C519	nsp	CK73B1E103KT(1005)			
	C520	00D2570525903	CK73B0J475KT(P) +1608			
	C526	nsp	CK73B1H332KT +1608			
	C529	nsp	CK73B1E103KT(1005)			
	C531	nsp	CK73B1E103KT(1005)			
	C532	00D2575009974	CK73F1C104ZT +1005			
	C534	00D2575009974	CK73F1C104ZT +1005			
	C535-537	00D2570039910	CK73B0J226MT			
	C538	00D2575009974	CK73F1C104ZT +1005			
	C539	00D2570039910	CK73B0J226MT			
	C540	nsp	CK73B1E103KT(1005)			
	C542	nsp	CK73B1E103KT(1005)			
	C543	00D2570039910	CK73B0J226MT			
	C544	00D2570513902	CK73F1A105ZT +1608			
	C545,546	00D2575009974	CK73F1C104ZT +1005			
	C547,548	00D2570525903	CK73B0J475KT(P) +1608			
	C549	132350030504S	CK73B1C225KT 1608			
	C552	nsp	GRM32EB31C476KE15L			
	C606	00D2575009974	CK73F1C104ZT +1005			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C607	nsp	CK73B1H102KT +1005			
	C608	00D2575009974	CK73F1C104ZT +1005			
	C609	nsp	CK73B1H102KT +1005			
	C610	00D2575009974	CK73F1C104ZT +1005			
	C611	nsp	CK73B1H102KT +1005			
	C612	00D2575009974	CK73F1C104ZT +1005			
	C615	00D2575009974	CK73F1C104ZT +1005			
	C616	nsp	CK73B1H102KT +1005			
	C617	00D2575009974	CK73F1C104ZT +1005			
	C618	nsp	CK73B1H102KT +1005			
	C619	00D2570038908	CK73B1A106KT +2125			
	C620	00D2570039910	CK73B0J226MT			
	C621-641	00D2575009974	CK73F1C104ZT +1005			
	C643	nsp	CK73B1E103KT(1005)			
	C644	nsp	CK73B1H102KT +1005			
	C645	00D2570038908	CK73B1A106KT +2125			
	C646	00D2570039910	CK73B0J226MT			
	C647-649	00D2575009974	CK73F1C104ZT +1005			
	C650	00D2570038908	CK73B1A106KT +2125			
	C651	00D2570039910	CK73B0J226MT			
	C652-675	00D2575009974	CK73F1C104ZT +1005			
	C678-680	00D2575009974	CK73F1C104ZT +1005			
	C712,713	00D2570038908	CK73B1A106KT +2125			
	C714-722	00D2575009974	CK73F1C104ZT +1005			
	C723,724	00D2571500901	CK73D0J476MT(3225)			
	C725,726	00D2575009974	CK73F1C104ZT +1005			
	C727	nsp	CK73B1E103KT(1005)			
	C728	00D2570039910	CK73B0J226MT			
	C729-743	00D2575009974	CK73F1C104ZT +1005			
	C744	00D2575003983	CC73CH1H470JT			
	C745	00D2575009974	CK73F1C104ZT +1005			
	C746	nsp	CK73B1E103KT(1005)			
	C747	00D2575009974	CK73F1C104ZT +1005			
	C748	00D2570038908	CK73B1A106KT +2125			
	C749-757	00D2575009974	CK73F1C104ZT +1005			
	C758-762	nsp	CK73B1A104KT +1005			
	C763-766	00D2575009974	CK73F1C104ZT +1005			
	C767	00D2575003983	CC73CH1H470JT			
	C768	00D2575009974	CK73F1C104ZT +1005			
	C769	00D2570038908	CK73B1A106KT +2125			
	C770	nsp	CK73B1A104KT +1005			
	C771,772	00D2575009974	CK73F1C104ZT +1005			
	C773,774	nsp	CK73B1A104KT +1005			
	C775-785	00D2575009974	CK73F1C104ZT +1005			
	C786	00D2570039910	CK73B0J226MT			
	C801,802	nsp	CK73B1H102KT +1005			
	C803-805	00D2575009974	CK73F1C104ZT +1005			
	C806-812	nsp	CK73B1H102KT +1005			
	C813-817	00D2575009974	CK73F1C104ZT +1005			
	C818	nsp	CK73B1H102KT +1005			
	C819,820	00D2575009974	CK73F1C104ZT +1005			
	C823	nsp	CK73B1H102KT +1005			
	C824	00D2575009974	CK73F1C104ZT +1005			
	C827-830	nsp	CK73B1H102KT +1005			
	C831-834	00D2575009974	CK73F1C104ZT +1005			
	C835-842	00D2570525903	CK73B0J475KT(P) +1608			
	C847	00D2575009974	CK73F1C104ZT +1005			
	C848	nsp	CK73B1H102KT +1005			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C849	00D2575009974	CK73F1C104ZT +1005			
	C850	nsp	CK73B1H102KT +1005			
	CC113-174	00D2575009974	CK73F1C104ZT +1005			
	CC209	00D2575009974	CK73F1C104ZT +1005			
	CC211,212	00D2570525903	CK73B0J475KT(P) +1608			
	CC213-220	00D2575009974	CK73F1C104ZT +1005			
	CC221-228	nsp	CK73B1H102KT +1005			
	CC251,252	nsp	CK73F1E104ZT +1608			
	CC253,254	132350030504S	CK73B1C225KT 1608			
	CC301	00D2572019909	CS77B0J470MT(NOJ)			
	CC302	nsp	CK73B1E103KT(1005)			
	CC303	nsp	CK73B1H102KT +1005			
	CC304	00D2575009974	CK73F1C104ZT +1005			
	CC305	00D2572019909	CS77B0J470MT(NOJ)			
	CC306	nsp	CK73B1H102KT +1005			
	CC307	00D2575009974	CK73F1C104ZT +1005			
	CC308-310	00D2575003983	CC73CH1H470JT			
	CC311	00D2572021900	CS77B0J101MT(NOJ)			
	CC313	00D2575009974	CK73F1C104ZT +1005			
	CC314	00D2572019909	CS77B0J470MT(NOJ)			
	CC315	00D2575009974	CK73F1C104ZT +1005			
	CC316	00D2572021900	CS77B0J101MT(NOJ)			
	CC317	00D2572019909	CS77B0J470MT(NOJ)			
	CC319,320	00D2572018900	CS77B1A100MT(NOJ)			
	CC321,322	nsp	CK73B1H102KT +1005			
	CC323,324	nsp	CK73B1E103KT(1005)			
	CC325,326	nsp	CC73CH1H101JT +1005			
	CC327,328	nsp	CK73B1H102KT +1005			
	CC329,330	nsp	CK73B1E103KT(1005)			
	CC331,332	nsp	CC73CH1H101JT +1005			
	CC334	nsp	CC73CH1H101JT +1005			
	CC336,337	nsp	CK73B1H102KT +1005			
	CC338	nsp	CC73CH1H101JT +1005			
	CC341	nsp	CC73CH1H101JT +1005			
	CC342	nsp	CK73B1H102KT +1005			
	CC345-352	00D2473001906	RM73B--0R0KT+1005			
	CC353,354	00D2575009974	CK73F1C104ZT +1005			
	CC355,356	nsp	CK73B1E103KT(1005)			
	CC357,358	00D2575009974	CK73F1C104ZT +1005			
	CC359,360	nsp	CK73B1E103KT(1005)			
	CC430	00D2572018900	CS77B1A100MT(NOJ)			
	CC431	nsp	CK73B1E103KT(1005)			
	CC432	00D2572022909	CS77B0J220MT(NOJ)			
	CC433	nsp	CK73B1H102KT +1005			
	CC434-437	00D2575009974	CK73F1C104ZT +1005			
	CC438	00D2572019909	CS77B0J470MT(NOJ)			
	CC439-450	00D2575009974	CK73F1C104ZT +1005			
	CC453	nsp	CK73B1E103KT(1005)			
	CC454	nsp	CK73B1H102KT +1005			
	CC455	nsp	CK73B1E103KT(1005)			
	CC456	nsp	CK73B1H102KT +1005			
	CC457	nsp	CK73B1E103KT(1005)			
	CC458	nsp	CK73B1H102KT +1005			
	CC459	00D2575001956	CC73CH1H3R0CT +1005			
	CC460	00D2575007934	CK73B1H222KT +1005			
	CC461	00D2575001956	CC73CH1H3R0CT +1005			
	CC462-465	00D2572022909	CS77B0J220MT(NOJ)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	CC466-470	00D2575009974	CK73F1C104ZT +1005			
	CC471	00D2572022909	CS77B0J220MT(NOJ)			
	CC473	00D2575009974	CK73F1C104ZT +1005			
	CC474	nsp	CK73B1E103KT(1005)			
	CC475	00D2570038908	CK73B1A106KT +2125			
	CC476	00D2575009974	CK73F1C104ZT +1005			
	CC477	nsp	CK73B1E103KT(1005)			
	CC501-508	nsp	CC73CH1H101JT +1005			
	CC509-516	nsp	CK73B1H102KT +1005			
	CC517-524	00D2575009974	CK73F1C104ZT +1005			
	CC525	00D2572018900	CS77B1A100MT(NOJ)			
	CC527,528	00D2575009974	CK73F1C104ZT +1005			
	CC530,531	00D2575009974	CK73F1C104ZT +1005			
	CC532	00D2570525903	CK73B0J475KT(P) +1608			
	CC534	00D2575009974	CK73F1C104ZT +1005			
	CC535	00D2570525903	CK73B0J475KT(P) +1608			
	CC538,539	00D2575001998	CC73CH1H7R0DT +1005			
	CC601	00D2570039910	CK73B0J226MT			
	CC602,603	00D2575009974	CK73F1C104ZT +1005			
	CC604	nsp	CK73B1E223KT +1608			
	CC605	00D2575009974	CK73F1C104ZT +1005			
	CC606	nsp	CK73B1E103KT(1005)			
	CC607	nsp	CK73B1H102KT +1005			
	CC608,609	00D2575009974	CK73F1C104ZT +1005			
	CC610	nsp	CK73B1H102KT +1005			
	CC611,612	00D2575001998	CC73CH1H7R0DT +1005			
	CC613-615	00D2575009974	CK73F1C104ZT +1005			
	CC616	nsp	CK73B1E103KT(1005)			
	CC617	nsp	CK73B1H102KT +1005			
	CC618	00D2575009974	CK73F1C104ZT +1005			
	CC626	00D2570038908	CK73B1A106KT +2125			
	CC628	00D2570513902	CK73F1A105ZT +1608			
	CC629	nsp	CK73B1E103KT(1005)			
	CC701	00D2570525903	CK73B0J475KT(P) +1608			
	CC702,703	00D2575002942	CC73CH1H120JT +1005			
	CC704	00D2570525903	CK73B0J475KT(P) +1608			
	CC705-708	00D2575009974	CK73F1C104ZT +1005			
	CC709	nsp	CK73B1E103KT(1005)			
	CC710	00D2575009974	CK73F1C104ZT +1005			
	CC711	00D2570525903	CK73B0J475KT(P) +1608			
	CC712	00D2575009974	CK73F1C104ZT +1005			
	CC713-715	00D2570525903	CK73B0J475KT(P) +1608			
	CC716-718	00D2575009974	CK73F1C104ZT +1005			
	CC719	00D2570525903	CK73B0J475KT(P) +1608			
	CC720-722	00D2575009974	CK73F1C104ZT +1005			
	CC723-728	nsp	CK73B1E103KT(1005)			
	CC729	00D2570525903	CK73B0J475KT(P) +1608			
	CC730	nsp	CK73B1E103KT(1005)			
	CC735	00D2570525903	CK73B0J475KT(P) +1608			
	CC736	nsp	CK73B1E103KT(1005)			
	CC737,738	00D2575002968	CC73CH1H150JT +1005			
	CC741	nsp	CK73B1E223KT +1608			
	CC742	00D2570525903	CK73B0J475KT(P) +1608			
	CC743-749	00D2575009974	CK73F1C104ZT +1005			
	CC750	nsp	CK73B1H102KT +1608			
	CC751	00D2575009974	CK73F1C104ZT +1005			
	CC752-761	nsp	CK73B1E103KT(1005)			
	CC762	00D2570525903	CK73B0J475KT(P) +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	CC763	nsp	CK73B1E103KT(1005)			
	CC768,769	00D2575002968	CC73CH1H150JT +1005			
	CC772	00D2570525903	CK73B0J475KT(P) +1608			
	CC773	nsp	CK73B1E103KT(1005)			
	CC774	nsp	CK73B1E223KT +1608			
	CC903	nsp	CK73B1H102KT +1005			
	CC904	nsp	CK73B1E103KT(1005)			
	CC905,906	00D2575002942	CC73CH1H120JT +1005			
	CC907	00D2570525903	CK73B0J475KT(P) +1608			
	CC908	nsp	CK73B1E103KT(1005)			
	CC909	00D2570525903	CK73B0J475KT(P) +1608			
	CC910,911	nsp	CK73B1E103KT(1005)			
	CC912,913	00D2570525903	CK73B0J475KT(P) +1608			
	CC914	nsp	CK73B1E103KT(1005)			
	CC915	00D2570525903	CK73B0J475KT(P) +1608			
	CC916-919	nsp	CK73B1E103KT(1005)			
	CC920	00D2570525903	CK73B0J475KT(P) +1608			
	CC921	nsp	CK73B1E103KT(1005)			
	CC926	00D2570525903	CK73B0J475KT(P) +1608			
	CC927	nsp	CK73B1E103KT(1005)			
	CC928,929	00D2575002968	CC73CH1H150JT +1005			
	CC932	nsp	CK73B1E223KT +1608			
	CC933	nsp	CK73B1H102KT +1608			
	CC934	00D2575009974	CK73F1C104ZT +1005			
	CC935	nsp	CK73B1H102KT +1005			
	CC937-939	00D2570038908	CK73B1A106KT +2125			
	CC950,951	nsp	CK73B1E103KT(1005)			
	CC952-961	00D2575006951	CK73B1H471KT +1005			
	CC962-967	nsp	CK73B1H102KT +1005			
	CC968	00D2570038908	CK73B1A106KT +2125			
	CC969-972	00D2575009974	CK73F1C104ZT +1005			
	CC973-978	nsp	CK73B1E103KT(1005)			
OTHERS PARTS GROUP						
	CX031	nsp	3P PH CON.BASE(TAPE) +REF			
	CX079	nsp	7P FFC BASE(9610SC)			
	CX151	nsp	15P FFC BASE SIDE(P=0.5MM)			
	CX241	nsp	24FMN-SMT-A-TF (LF)(SN)			
	CX331,332	nsp	33P FFC BASE(FMNBMTT +C			
	CX501	nsp	50FY-BMT-TB(LF)(SN)			
	CY151	00MYJ07061430	CONN. S15B-PH-SM4-TB (LF)(SN)JST			
	CY183	nsp	18P/18FMN-BMTTN-TF			
	CY402	645010043506S	40P-FFC-BASE(HF601)			
	CY452	645010044509S	45P-FFC-BASE(HF601)			
	FB101,102	00D2350136907	FBMJ1608HS280NT +1608			
	FB104,105	00D2350136907	FBMJ1608HS280NT +1608			
	FB107	00D2350136907	FBMJ1608HS280NT +1608			
	FB108-113	00D2350147909	E.FIL(BLM21PG221SN1)+2125			
	FB301,302	00D2350136907	FBMJ1608HS280NT +1608			
	FB351-353	00D2350136907	FBMJ1608HS280NT +1608			
	FB401,402	00D2350130903	CHIP EMIFIL(11A121) +1608			
	FB502,503	00D2350136907	FBMJ1608HS280NT +1608			
	FB504-509	119310005507S	MPZ1608S221A			
	FB601	00D2350136907	FBMJ1608HS280NT +1608			
	FB607	119310005507S	MPZ1608S221A			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	FB609	119310005507S	MPZ1608S221A			
	FB701,702	00D2350147909	E.FIL(BLM21PG221SN1)+2125			
	FB703,704	00D2350130903	CHIP EMIFIL(11A121) +1608			
	FB706,707	00D2350130903	CHIP EMIFIL(11A121) +1608			
	FB708	119310005507S	MPZ1608S221A			
	FB710	119310005507S	MPZ1608S221A			
	FB712	00D2350136907	FBMJ1608HS280NT +1608			
	FB801	119310005507S	MPZ1608S221A			
	FB851,852	00D2350136907	FBMJ1608HS280NT +1608			
	FB888	119310005507S	MPZ1608S221A			
	FB901	00D2350136907	FBMJ1608HS280NT +1608			
	FB906	00D2350147909	E.FIL(BLM21PG221SN1)+2125			
	FB907-914	00D2350136907	FBMJ1608HS280NT +1608			
	FB916	00D2350147909	E.FIL(BLM21PG221SN1)+2125			
	FB929	00D2350147909	E.FIL(BLM21PG221SN1)+2125			
	FB933,934	00D2350147909	E.FIL(BLM21PG221SN1)+2125			
	JK101	643010069601S	ETHER-JACK(08B01X1T06-F)			
	JK601	00D2048719005	19P HDMI CONNECTOR			
	JK651	00D2048728009	1P PIN JACK(BK)-LF			
	L100-105	111810021500S	INDUCTOR3.3uH(C6K5LGA)			
	L803-808	00D2350125905	INDUCTOR(FLC32C220K)+3216			
	W651,652	nsp	M3 SCREW TERMINAL			
	X101	nsp	FCX-05(24.000MHz) 15ppm			
	X102	nsp	FCX-05(25.000MHz) 10ppm			
	X551	nsp	FCX-05(20.815MHz) 15ppm			
	X602	nsp	FCX-05(22.5792MHz) 10ppm			
	X609	nsp	FCX-05(24.576MHz) 10ppm			
	X651	nsp	FCX-05(24.576MHz) 10ppm			
	X705	nsp	FCX-05(27.000MHz) 10ppm			
	X851	nsp	TFX-02(32.768kHz)			
	X852	nsp	FCX-05(20.000MHz) 15ppm			
	RS101	119210004529S	MMZ1005D121C			
	RS102-104	00D2473001906	RM73B--0R0KT+1005			
	RS107-114	00D2473001906	RM73B--0R0KT+1005			
	RS117-124	00D2473001906	RM73B--0R0KT+1005			
	RS149-168	00D2473004945	RM73B--220JT+1005			
	RS169-173	00D2473001906	RM73B--0R0KT+1005			
	RS174,175	00D2473006901	RM73B--101JT+1005			
	RS176	nsp	RM73B--0R0KT +1608			
	RS180	00D2473001906	RM73B--0R0KT+1005			
	RS182	00D2473001906	RM73B--0R0KT+1005			
	RS184	00D2473001906	RM73B--0R0KT+1005			
	RS186	00D2473001906	RM73B--0R0KT+1005			
	RS211-213	00D2473004945	RM73B--220JT+1005			
	RS215-222	00D2473004945	RM73B--220JT+1005			
	RS255-272	00D2473001906	RM73B--0R0KT+1005			
	RS273	00D2473010900	RM73B--472JT+1005			
	RS276	00D2472007972	RM73B--132JT +1608			
	RS277	00D2472007985	RM73B--152JT +1608			
	RS278	00D2473001906	RM73B--0R0KT+1005			
	RS280	00D2473010900	RM73B--472JT+1005			
	RS281,282	00D2473001906	RM73B--0R0KT+1005			
	RS283	00D2473006901	RM73B--101JT+1005			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	RS284	00D2473008941	RM73B--102JT			
	RS285	00D2473012940	RM73B--473JT+1005			
	RS286	00D2473001906	RM73B--0R0KT+1005			
	RS287,288	00D2473009908	RM73B--182JT			
	RS293-295	00D2473001906	RM73B--0R0KT+1005			
	RS501,502	00D2473001906	RM73B--0R0KT+1005			
	RS503-521	00D2473003962	RM73B--100JT			
	RS522	00D2473015963	RM73B--105KT +1005			
	RS523-525	00D2473010984	RM73B--103JT +1005			
	RS526	00D2473004987	RM73B--330JT +1005			
	RS527	00D2473010984	RM73B--103JT +1005			
	RS529	00D2473001906	RM73B--0R0KT+1005			
	RS531	129350038571S	RM73B--1242FT(1608)			
	RS532	00D2473004987	RM73B--330JT +1005			
	RS534	00D2473010984	RM73B--103JT +1005			
	RS536	00D2473003962	RM73B--100JT			
	RS537	00D2473010984	RM73B--103JT +1005			
	RS538	00D2473003962	RM73B--100JT			
	RS539	129250039506S	RM73B--510FT(1005)			
	RS540	00D2473010984	RM73B--103JT +1005			
	RS541	00D2473003962	RM73B--100JT			
	RS542	129250039506S	RM73B--510FT(1005)			
	RS543,544	00D2473010984	RM73B--103JT +1005			
	RS545-547	00D2473003962	RM73B--100JT			
	RS548	00D2473010984	RM73B--103JT +1005			
	RS549	00D2473003962	RM73B--100JT			
	RS550	129250039506S	RM73B--510FT(1005)			
	RS551	00D2473010984	RM73B--103JT +1005			
	RS552	00D2473003962	RM73B--100JT			
	RS553	129250039506S	RM73B--510FT(1005)			
	RS554-565	00D2473003962	RM73B--100JT			
	RS567	00D2473001906	RM73B--0R0KT+1005			
	RS568-570	00D2473003962	RM73B--100JT			
	RS571-575	00D2473008941	RM73B--102JT			
	RS576,577	00D2473005973	RM73B--750JT			
	RS578,579	00D2473008941	RM73B--102JT			
	RS580,581	00D2473010984	RM73B--103JT +1005			
	RS583,584	00D2473010984	RM73B--103JT +1005			
	RS585,586	00D2473003962	RM73B--100JT			
	RS587-591	00D2473008941	RM73B--102JT			
	RS593-605	00D2473008941	RM73B--102JT			
	RS606-609	129250039506S	RM73B--510FT(1005)			
	RS610	00D2473003962	RM73B--100JT			
	RS612	00D2473001906	RM73B--0R0KT+1005			
	RS613	nsp	RM73B--0R0KT +1608			
	RS615	00D2473010984	RM73B--103JT +1005			
	RS616,617	00D2473007971	RM73B--511JT			
	RS618	00D2473010984	RM73B--103JT +1005			
	RS619,620	00D2473001906	RM73B--0R0KT+1005			
	RS700	00D2473010984	RM73B--103JT +1005			
	RS701	00D2473008983	RM73B--152JT			
	RS702	00D2473005931	RM73B--510JT			
	RS703	nsp	RM73B--0R0KT +2125			
	RS704	00D2473010984	RM73B--103JT +1005			
	RS705	00D2473001906	RM73B--0R0KT+1005			
	RS707-710	00D2473003962	RM73B--100JT			
	RS711	00D2473010900	RM73B--472JT+1005			
	RS712	00D2473003962	RM73B--100JT			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	RS713,714	00D2473010984	RM73B--103JT +1005			
	RS715,716	00D2473001906	RM73B--0R0KT+1005			
	RS717	00D2473010984	RM73B--103JT +1005			
	RS718-721	00D2473001906	RM73B--0R0KT+1005			
	RS722	00D2473008983	RM73B--152JT			
	RS723	00D2473010984	RM73B--103JT +1005			
	RS725	00D2473010984	RM73B--103JT +1005			
	RS727,728	00D2473010984	RM73B--103JT +1005			
	RS729	00D2473011912	RM73B--133JT			
	RS730	00D2473015963	RM73B--105KT +1005			
	RS731	00D2473010984	RM73B--103JT +1005			
	RS732	00D2473010939	RM73B--622JT			
	RS733	00D2473010984	RM73B--103JT +1005			
	RS735	00D2473009940	RM73B--272JT			
	RS738	00D2473008941	RM73B--102JT			
	RS742	00D2473010984	RM73B--103JT +1005			
	RS744	00D2473010984	RM73B--103JT +1005			
	RS745	00D2473008983	RM73B--152JT			
	RS746	00D2473010900	RM73B--472JT+1005			
	RS747	00D2473010984	RM73B--103JT +1005			
	RS749	00D2473008983	RM73B--152JT			
	RS750-764	00D2473010984	RM73B--103JT +1005			
	RS765-768	00D2473004945	RM73B--220JT+1005			
	RS769	129350038571S	RM73B--1242FT(1608)			
	RS770-773	129250039506S	RM73B--510FT(1005)			
	RS774	00D2473003962	RM73B--100JT			
	RS775,776	00D2473005973	RM73B--750JT			
	RS777	00D2473005931	RM73B--510JT			
	RS778-781	00D2473010900	RM73B--472JT+1005			
	RS782-801	00D2473005931	RM73B--510JT			
	RS802,803	00D2473010900	RM73B--472JT+1005			
	RS804-820	00D2473005931	RM73B--510JT			
	RS823,824	nsp	RM73B--0R0KT +1608			
	RS827	00D2473001906	RM73B--0R0KT+1005			
	RS829	00D2473001906	RM73B--0R0KT+1005			

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	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC100	nsp	R8J32801AFPV			
	IC106	nsp	AD8062ARMZ-R7			
	IC107	nsp	BA6846FV-E2			
	IC151	nsp	BD7956FS-E2			
	IC301	nsp	BH18MA3WHFV-TR			
	IC302	nsp	MM1661ZHBE			
	IC303	nsp	MM1687CFBE			
	IC304	nsp	MM1825YHBE			
	IC305	nsp	BU19502KV-SE2			
	IC502	nsp	EM636165TS-7G			
	IC503	nsp	CXD2753R +C			
	IC504	nsp	SN74LVC04APW-EL2			
	IC602	nsp	BA25BC0FP-E2			
	IC603	nsp	BA00HC5FP			
	IC605	nsp	FPGA ROM ASSY (ES29LV160EB-70TGI)			
	IC605	nsp	or FPGA ROM ASSY (W19B160BBT7H)			
	IC606	nsp	XC3S500E-4FTG256C			
	IC901	nsp	SN74LVC2G04DBVR			
	IC902	nsp	SN74CBTLV16210GR			
	IC903	nsp	SN74CBTLV16212GR			
	IC904	nsp	SN74CBTLV16210GR			
	IC961	nsp	BA33DD0WHFP			
		nsp				
	D901,902	nsp	1SS355 TE-17 +C			
	D903-905	nsp	1SR154-400TE25 +REF			
	D906-908	nsp	1SS355 TE-17 +C			
	D910,911	nsp	1SS355 TE-17 +C			
		nsp				
	TR501	nsp	DTC114EKT96 +C			
	TR502	nsp	DTA114EKT96 +C			
	TR503	nsp	DTC114EKT96 +C			
	TR504	nsp	DTA114EKT96 +C			
RESISTORS GROUP						
	R148	nsp	RM73B-0R0KT +1608			
	R159	nsp	RM73B-123FT +1608			
	R175	nsp	RM73B-101JT+1005			
	R186	nsp	RM73B-0R0KT+1005			
	R190	nsp	RM73B-0R0KT+1005			
	R220	nsp	RM73B-152JT			
	R226	nsp	RM73B-623JT+1005			
	R228,229	nsp	RM73B-0R0KT+1005			
	R232	nsp	RM73B-0R0KT +1608			
	R233,234	nsp	RM73B-0R0KT +1608			
	R239	nsp	RM73B-623JT+1005			
	R250	nsp	RM73B-0R0KT+1005			
	R255	nsp	RM73B-332DT(1608)			
	R258	nsp	RM73B-101JT+1005			
	R294,295	nsp	RM73B-0R0KT+1005			
	R304	nsp	RM73B-0R0KT+1005			
	R307	nsp	RM73B-0R0KT+1005			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	R308	nsp	RM73B–0R0KT+1005			
	R313	nsp	RM73B–472JT+1005			
	R318	nsp	RM73B–220JT+1005			
	R320	nsp	RM73B–123FT +1608			
	R321	nsp	RM73B–220JT+1005			
	R322	nsp	RM73B–224DT(1608)			
	R323	nsp	RM73B–152JT			
	R327	nsp	RM73B–220JT+1005			
	R348-354	nsp	RM73B–0R0KT+1005			
	R355-375	nsp	RM73B–0R0KT+1005			
	R401-405	nsp	RM73B–220JT+1005			
	R406-413	nsp	RM73B–220JT+1005			
	R426	nsp	RM73B–0R0KT+1005			
	R428,429	nsp	RM73B–0R0KT+1005			
	R430-435	nsp	RM73B–0R0KT+1005			
	R439,440	nsp	RM73B–0R0KT+1005			
	R452-454	nsp	RM73B–0R0KT+1005			
	R456	nsp	RM73B–0R0KT+1005			
	R458	nsp	RM73B–0R0KT+1005			
	R522-524	nsp	RM73B–0R0KT+1005			
	R525-533	nsp	RM73B–0R0KT+1005			
	R534-549	nsp	RM73B–0R0KT+1005			
	R550R	nsp	RM73B–220JT+1005			
	R598,599	nsp	RM73B–0R0KT+1005			
	R603-604	nsp	RM73B–220JT+1005			
	R606	nsp	RM73B–0R0KT+1005			
	R607	nsp	RM73B–472JT+1005			
	R610,611	nsp	RM73B–472JT+1005			
	R612-615	nsp	RM73B–0R0KT+1005			
	R623	nsp	RM73B–472JT+1005			
	R626-641	nsp	RM73B–0R0KT+1005			
	R642,643	nsp	RM73B–101JT+1005			
	R644	nsp	RM73B–472JT+1005			
	R646,647	nsp	RM73B–472JT+1005			
	R649	nsp	RM73B–472JT+1005			
	R653	nsp	RM73B–472JT+1005			
	R654	nsp	RM73B–0R0KT+1005			
	R657-662	nsp	RM73B–220JT+1005			
	R663-671	nsp	RM73B–101JT+1005			
	R673-682	nsp	RM73B–101JT+1005			
	R683-686	nsp	RM73B–473JT+1005			
	R687	nsp	RM73B–220JT+1005			
	R688-695	nsp	RM73B–0R0KT+1005			
	R696-698	nsp	RM73B–101JT+1005			
	R702-706	nsp	RM73B–0R0KT+1005			
	R718	nsp	RM73B–220JT+1005			
	R720	nsp	RM73B–220JT+1005			
	R723-730	nsp	RM73B–220JT+1005			
	R750	nsp	RM73B–0R0KT+1005			
	R790	nsp	RM73B–0R0KT+1005			
	R922-924	nsp	RM73B–0R0KT+1005			
	R925R,926	nsp	RM73B–0R0KT+1005			
	R927,928	nsp	RM73B–0R0KT +1608			
	R935-940	nsp	RM73B–0R0KT+1005			
	R942-945	nsp	RM73B–0R0KT+1005			
	R948	nsp	RM73B–0R0KT+1005			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	R965	nsp	RM73B–0R0KT+1005			
	R985	nsp	RM73B–220JT+1005			
	R988	nsp	RM73B–220JT+1005			
	R990	nsp	RM73B–220JT+1005			
	R998	nsp	RM73B–0R0KT+1005			
	R999	nsp	RM73B–0R0KT+1005			
	RA401,402	nsp	MNR14=220JE0AB +C			
	RR104	nsp	RM73B–102JT			
	RR105	nsp	RM73B–0R0KT+1005			
	RR106-108	nsp	RM73B–102JT			
	RR144,145	nsp	RM73B–102JT			
	RR150	nsp	RM73B–152JT			
	RR905-907	nsp	RM73B–102FT +1608			
	RR913	nsp	RM73B–0R0KT+1005			
	RR914-916	nsp	RM73B–0R0KT+1005			
	RR917	nsp	RM73B2B0R0KT +3216			
CAPACITORS GROUP						
	C101	nsp	CK73B1A105KT +1608			
	C102	nsp	CE67C1C101MT(MVA)(100/16)			
	C103-105	nsp	CK73B1A105KT +1608			
	C106,107	nsp	CK73F1H103ZT +1005			
	C108-110	nsp	CK73B1E103KT(1005)			
	C111	nsp	CK73F1H103ZT +1005			
	C112	nsp	CK73B1A106KT +2125			
	C113	nsp	CK73F1H103ZT +1005			
	C114	nsp	CK73B1A106KT +2125			
	C115	nsp	CK73B1A105KT +1608			
	C116	nsp	CK73F1C104ZT +1005			
	C117,118	nsp	CK73B1A105KT +1608			
	C119,120	nsp	GRM188B11H223KA01D			
	C121,122	nsp	CK73F1C104ZT +1005			
	C123,124	nsp	CK73B1A474KT			
	C125	nsp	GRM188B11H223KA01D			
	C126	nsp	CK73F1H103ZT +1005			
	C127	nsp	CK73F1C104ZT +1005			
	C129,130	nsp	CK73F1H103ZT +1005			
	C131	nsp	CK73B1H222KT +1608			
	C132	nsp	CK73B1E103KT(1005)			
	C133	nsp	CC73CH1H471JT +1608			
	C134	nsp	CK73F1H103ZT +1005			
	C135-138	nsp	CK73B1E683KT(1608) +1608			
	C139,140	nsp	CK73B1A104KT +1005			
	C141	nsp	CK73F1C104ZT +1005			
	C142	nsp	CK73B1A106KT +2125			
	C143	nsp	CK73F1H103ZT +1005			
	C144	nsp	CC73CH1H331JT +1608			
	C145	nsp	CK73B1A106KT +2125			
	C146-148	nsp	CC73CH1H471JT +1608			
	C149	nsp	CK73B1A104KT +1005			
	C150,151	nsp	CK73B1H102KT +1005			
	C152	nsp	CC73CH1H471JT +1608			
	C153	nsp	CK73B1A104KT +1005			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C154	nsp	CK73B1E103KT(1005)			
	C155	nsp	CK73F1H103ZT +1005			
	C156-158	nsp	CK73F1C104ZT +1005			
	C159	nsp	CK73F1H103ZT +1005			
	C160,161	nsp	CK73B1E103KT(1005)			
	C162	nsp	CK73F1H103ZT +1005			
	C163,164	nsp	CK73F1C104ZT +1005			
	C165	nsp	CC73CH1H101JT +1005			
	C166	nsp	CK73B1A106KT +2125			
	C167-170	nsp	CK73F1C104ZT +1005			
	C171,172	nsp	CK73F1H103ZT +1005			
	C173	nsp	CK73F1C104ZT +1005			
	C176	nsp	CK73F1C104ZT +1005			
	C177	nsp	CK73F1C104ZT +1005			
	C178	nsp	CK73F1H103ZT +1005			
	C179	nsp	CK73F1C104ZT +1005			
	C180,181	nsp	CK73F1H103ZT +1005			
	C182	nsp	CK73B1E103KT(1005)			
	C185-187	nsp	CK73F1H103ZT +1005			
	C188,189	nsp	CK73F1C104ZT +1005			
	C190	nsp	CK73F1H103ZT +1005			
	C191,192	nsp	CK73F1C104ZT +1005			
	C193-195	nsp	CK73B1A104KT +1005			
	C196,197	nsp	CK73F1C104ZT +1005			
	C198	nsp	CK73F1C104ZT +1005			
	C199,200	nsp	CK73F1H103ZT +1005			
	C201-203	nsp	CK73F1C104ZT +1005			
	C204,205	nsp	CC73CH1H7R0DT +1608			
	C206,207	nsp	CK73B1E103KT(1005)			
	C208	nsp	CK73B1A104KT +1005			
	C211,212	nsp	CK73B1E103KT(1005)			
	C214	nsp	CE67C1C101MT(MVA)(100/16)			
	C215	nsp	CK73F1C104ZT +1005			
	C216	nsp	CK73B1H103KT (1608) +1608			
	C217	nsp	CE67C0J101MT(MV)(100/6.3)			
	C218,219	nsp	CK73F1C104ZT +1005			
	C222	nsp	CE67C1C101MT(MVA)(100/16)			
	C223	nsp	CK73B1A106KT +2125			
	C224	nsp	CK73F1C104ZT +1005			
	C230	nsp	CK73F1C104ZT +1005			
	C231-234	nsp	CE67C1C220MT(MV)(22/16)			
	C235	nsp	CE67C0J101MT(MV)(100/6.3)			
	C240	nsp	CK73F1C104ZT +1005			
	C301,302	nsp	CE67C0J101MT(MV)(100/6.3)			
	C303	nsp	CK73F1C104ZT +1005			
	C304	nsp	CK73F1H103ZT +1005			
	C308	nsp	CK73F1H103ZT +1005			
	C309,310	nsp	CK73B1E103KT(1005)			
	C311	nsp	CK73F1H103ZT +1005			
	C312,313	nsp	CK73B1E103KT(1005)			
	C314	nsp	CK73F1C104ZT +1005			
	C315	nsp	CK73F1H103ZT +1005			
	C316	nsp	CC73CH1H150JT +1005			
	C317	nsp	CC73CH1H180JT +1005			
	C318	nsp	CK73F1C104ZT +1005			
	C319,320	nsp	CK73F1H103ZT +1005			

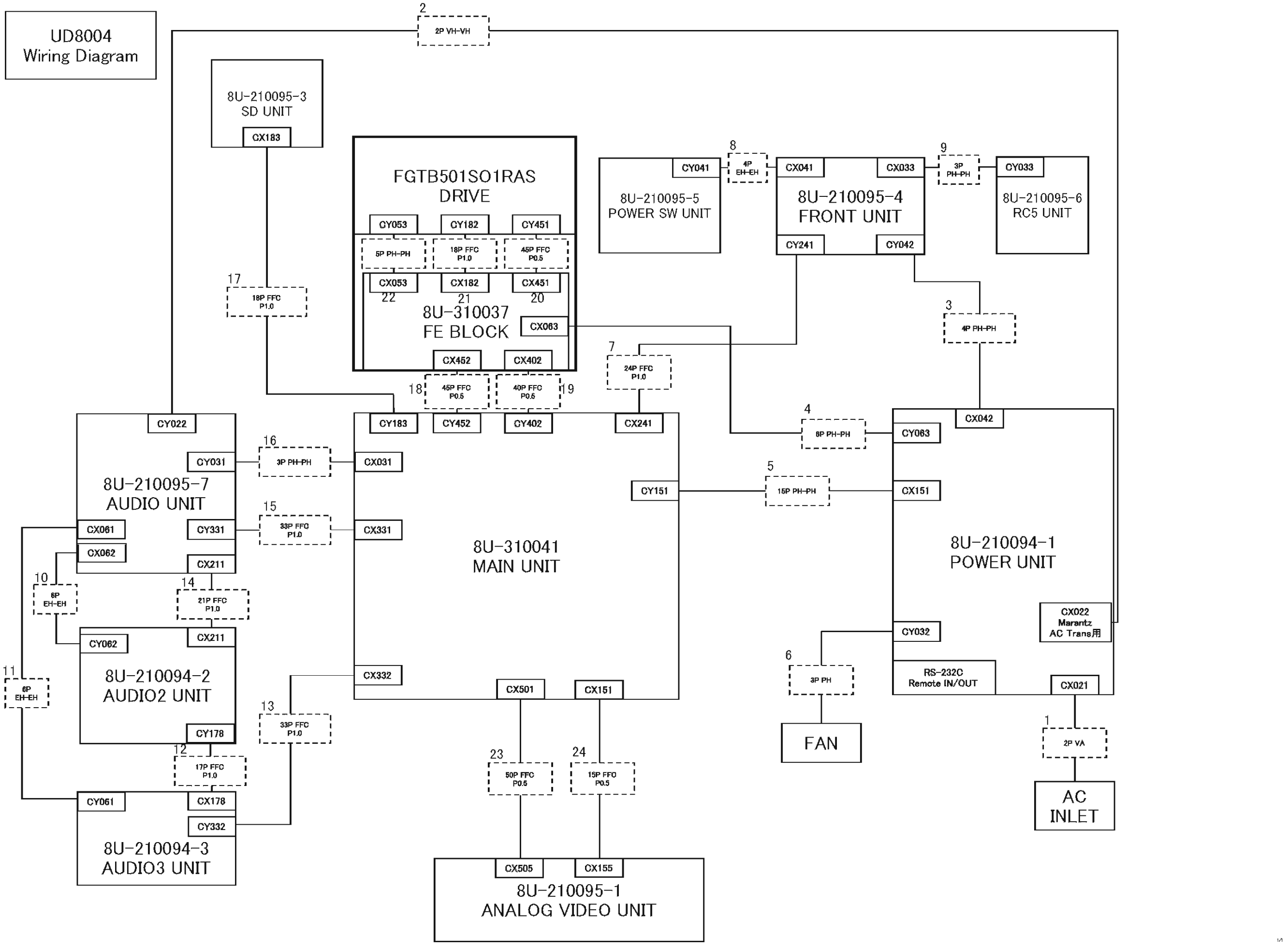
	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C321-323	nsp	CK73F1H103ZT +1005			
	C324-326	nsp	CK73F1C104ZT +1005			
	C401	nsp	CK73F1C104ZT +1005			
	C402	nsp	CE67C0J101MT(MV)(100/6.3)			
	C403,404	nsp	CK73F1C104ZT +1005			
	C406-411	nsp	CK73F1C104ZT +1005			
	C412	nsp	CE67C1C220MT(MV)(22/16)			
	C413	nsp	CK73B1H102KT +1005			
	C414,415	nsp	CK73F1C104ZT +1005			
	C418	nsp	CK73F1C104ZT +1005			
	C423-426	nsp	CK73F1C104ZT +1005			
	C428	nsp	CK73F1C104ZT +1005			
	C429-432	nsp	CK73F1C104ZT +1005			
	C433	nsp	CE67C0J101MT(MV)(100/6.3)			
	C434	nsp	CK73F1H103ZT +1005			
	C435	nsp	CK73F1C104ZT +1005			
	C501	nsp	CK73F1C104ZT +1005			
	C502	nsp	CC73CH1H102JT +1608			
	C503	nsp	CK73F1C104ZT +1005			
	C504	nsp	CC73CH1H102JT +1608			
	C505	nsp	CK73F1C104ZT +1005			
	C506	nsp	CC73CH1H102JT +1608			
	C507	nsp	CK73F1C104ZT +1005			
	C507	nsp	CK73F1C104ZT +1005			
	C508	nsp	CC73CH1H102JT +1608			
	C509	nsp	CS77B1A100MT(NOJ)			
	C511	nsp	CK73F1C104ZT +1005			
	C512	nsp	CC73CH1H102JT +1608			
	C513	nsp	CK73F1C104ZT +1005			
	C514	nsp	CC73CH1H102JT +1608			
	C515	nsp	CK73F1C104ZT +1005			
	C516	nsp	CC73CH1H102JT +1608			
	C517	nsp	CK73F1C104ZT +1005			
	C518	nsp	CC73CH1H102JT +1608			
	C519	nsp	CS77B1A100MT(NOJ)			
	C520	nsp	CK73F1C104ZT +1005			
	C521	nsp	CC73CH1H102JT +1608			
	C522	nsp	CK73F1C104ZT +1005			
	C523	nsp	CC73CH1H102JT +1608			
	C524	nsp	CK73F1C104ZT +1005			
	C525	nsp	CC73CH1H102JT +1608			
	C526	nsp	CS77B1A100MT(NOJ)			
	C528	nsp	CK73F1C104ZT +1005			
	C530	nsp	CC73CH1H102JT +1608			
	C531	nsp	CS77B1A100MT(NOJ)			
	C535	nsp	CK73F1H103ZT +1005			
	C536	nsp	CK73F1C104ZT +1005			
	C538	nsp	CK73B1H102KT +1005			
	C751-753	nsp	CK73F1C104ZT +1005			
	C754	nsp	CK73F1H103ZT +1005			
	C755	nsp	CK73F1C104ZT +1005			
	C756	nsp	CK73F1H103ZT +1005			
	C757	nsp	CK73F1C104ZT +1005			
	C758	nsp	CK73F1H103ZT +1005			
	C759	nsp	CK73F1C104ZT +1005			
	C901	nsp	CK73B1A105KT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C902	nsp	CS77B1A100MT(NOJ)			
	C903,904	nsp	CK73B1A105KT +1608			
	C905	nsp	CE67C1C220MT(MV)(22/16)			
	C906,907	nsp	CK73B1A105KT +1608			
	C908,909	nsp	CE67C0J101MT(MV)(100/6.3)			
	C910	nsp	CS77B1A100MT(NOJ)			
	C911,912	nsp	CE67C0J101MT(MV)(100/6.3)			
	C913	nsp	CK73B1A105KT +1608			
	C914	nsp	CE67C1C220MT(MV)(22/16)			
	C915	nsp	CK73F1C104ZT +1005			
	C916	nsp	CK73B1H103KT (1608) +1608			
	C917	nsp	CK73F1H103ZT +1005			
	C918	nsp	CK73B1A106KT +2125			
	C919	nsp	CK73F1C104ZT +1005			
	C920	nsp	CK73F1H103ZT +1005			
	C921	nsp	CK73B1A106KT +2125			
	C922	nsp	CC73CH1H471JT +1608			
	C923,924	nsp	CK73F1C104ZT +1005			
	C925	nsp	CE67C1C220MT(MV)(22/16)			
	C926	nsp	CE67C1C220MT(MV)(22/16)			
	C927,928	nsp	CK73B1A106KT +2125			
	C929	nsp	GRM188B11H223KA01D			
	C930	nsp	CK73F1C104ZT +1005			
	C931	nsp	CE67C1C220MT(MV)(22/16)			
	C933	nsp	CK73B1A105KT +1608			
	C934	nsp	CK73F1C104ZT +1005			
	C935	nsp	CE67C1C220MT(MV)(22/16)			
	C937	nsp	CE67C1C101MT(MVA)(100/16)			
	C938	nsp	CK73F1C104ZT +1005			
	C939	nsp	CS77B1A100MT(NOJ)			
	C940	nsp	CE67C0J101MT(MV)(100/6.3)			
	C941	nsp	CE67C1C101MT(MVA)(100/16)			
	C943	nsp	CK73B1A105KT +1608			
	C944	nsp	CK73B1A106KT +2125			
	C945	nsp	CK73B1H103KT (1608) +1608			
	C946,947	nsp	CE67C1C101MT(MVA)(100/16)			
	C949	nsp	CK73F1C104ZT +1005			
	C950	nsp	CK73B1A106KT +2125			
	C951	nsp	CE67C1C101MT(MVA)(100/16)			
	C952	nsp	CK73F1C104ZT +1005			
	C953	nsp	CE67C1C101MT(MVA)(100/16)			
	C954	nsp	CK73F1C104ZT +1005			
	C955	nsp	CE67C1C101MT(MVA)(100/16)			
	C956	nsp	CK73F1C104ZT +1005			
	C957	nsp	CK73B1A106KT +2125			
	C958	nsp	CE67C1C220MT(MV)(22/16)			
	C960	nsp	CK73B1A106KT +2125			
	C962	nsp	CK73B1H104KT +1608			
	C963	nsp	CS77B1A100MT(NOJ)			
	C964	nsp	CK73B1H104KT +1608			
	C969	nsp	CE67C0J101MT(MV)(100/6.3)			
	C974	nsp	CK73B1H104KT +1608			
	C977	nsp	CK73B1H104KT +1608			
	C990	nsp	CK73F1C104ZT +1005			
	C995	nsp	CK73B1H104KT +1608			
	C998	nsp	CK73B1H104KT +1608			

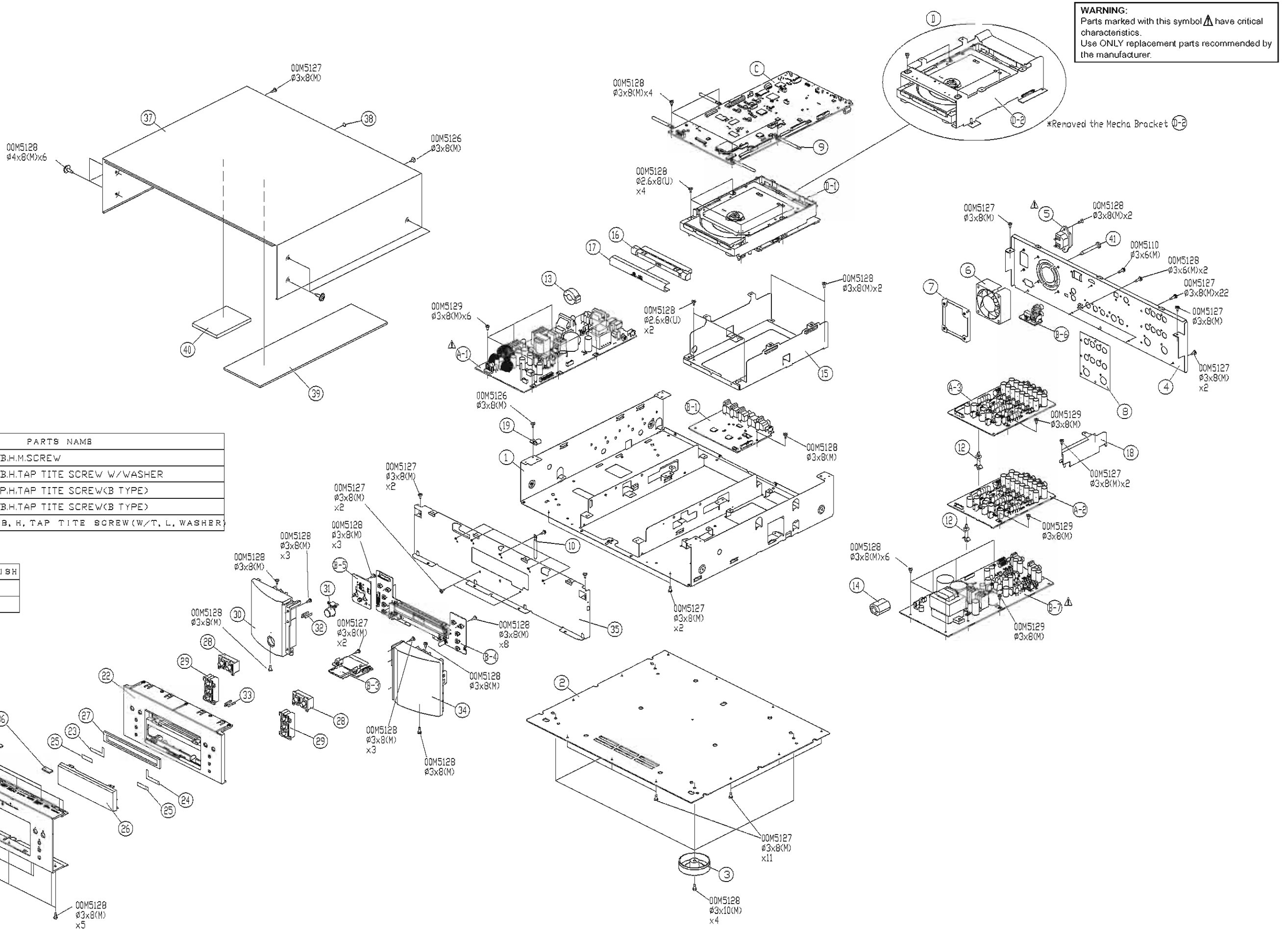
	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	CC904,905	nsp	CK73B1H104KT +1608			
	CC907	nsp	CK73B1H104KT +1608			
	CC909	nsp	CK73B1H104KT +1608			
	CC913	nsp	CK73B1H104KT +1608			
	CC916	nsp	CK73B1H104KT +1608			
	CC918	nsp	CK73B1H104KT +1608			
	CC920	nsp	CK73B1H104KT +1608			
	CC925	nsp	CK73B1H104KT +1608			
	CC927	nsp	CK73B1H104KT +1608			
OTHERS PARTS GROUP						
	CX053	nsp	5P PH CON.BASE(L) +REF			
	CX063	nsp	6P PH CON.BASE(L) +REF			
	CX182	nsp	18P-FFC-BASE			
	CX402	nsp	40P-FFC-BASE			
	CX451,452	nsp	45P-FFC-BASE			
	FB101-105	nsp	BLM18PG330SN1			
	FB106,107	nsp	RM73B-0R0KT +1608			
	FB301,302	nsp	RM73B-0R0KT +1608			
	FB901,902	nsp	BLM18PG330SN1			
	FB904-908	nsp	BLM18PG330SN1			
	FB910-913	nsp	BLM18PG330SN1			
	FB914-916	nsp	RM73B-0R0KT +1608			
	FB917-919	nsp	BLM18PG330SN1			
	FB932	nsp	BLM18PG330SN1			
	FB933-936	nsp	RM73B-0R0KT +1608			
	FB937	nsp	BLM18PG330SN1			
	X100	nsp	DSX321G(33.8688MHz)			
	X301	nsp	DSX321G(25.0MHz)			
		nsp	BD MECHA UNIT (TB501SO1)			
		nsp	MECHA BRACKET			
		nsp	3X8 CBTS (S)-B			
		nsp	45P FFC			

--MEMO--

WIRING DIAGRAM



EXPLODED VIEW



SYMBOL	STYLE	PARTS NAME
00M5110	⊛	+B.H.M.SCREW
00M5126	⊛	+B.H.TAP TITE SCREW W/WASHER
00M5127	⊛	+P.H.TAP TITE SCREW(B TYPE)
00M5128	⊛	+B.H.TAP TITE SCREW(B TYPE)
00M5129	⊛	+B. H. TAP TITE SCREW(W/T. L. WASHER)

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

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.

Note: The symbols in the column "Remarks" indicate the following destinations.

U :North America model　　N : Europe model　　R : Russia model

S : Singapore model　　K : Chaina model

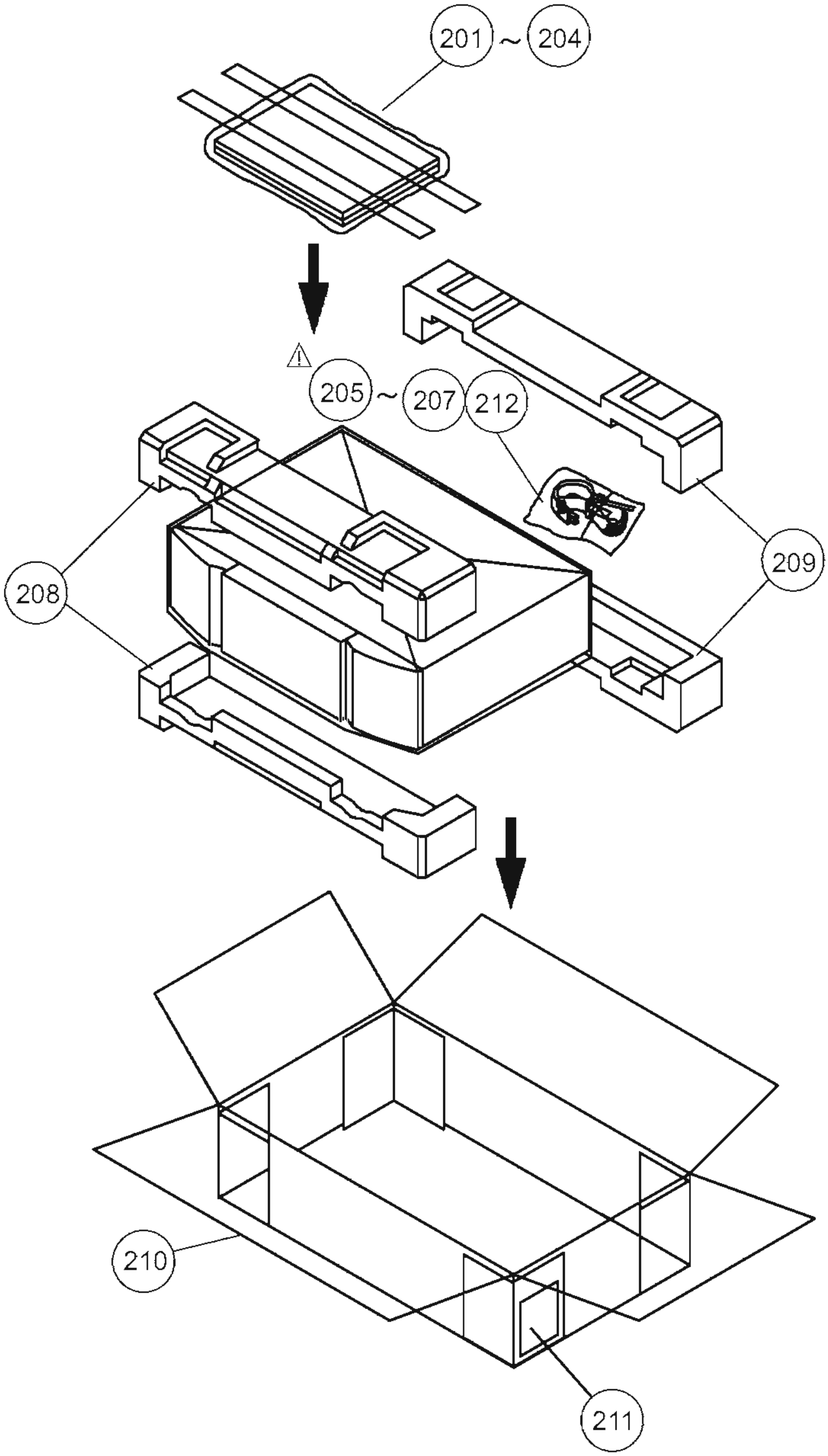
	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	A	nsp	AUDIO/POWER UNIT		1	*
⚠	A-1	-	POWER UNIT			
	A-2	-	AUDIO-2 PWB UNIT			
	A-3	-	AUDIO-3 PWB UNIT			
	B	nsp	AUDIO POWER/VIDEO/FRONT UNIT		1	*
	B-1	-	ANALOG VIDEO UNIT			
	B-3	-	SD UNIT			
	B-4	-	FRONT UNIT			
	B-5	-	POWER SW UNIT			
	B-6	-	RC UNIT			
⚠	B-7	-	AUDIO UNIT			
	C	8U-310041AY	MAIN PWB UNIT(U1B)	U	1	*
	D	FGTB501SO1RAS	BD MECHA UNIT(SACD)		1	
	D-1	-	FE/SACD UNIT (WITH SACD)		1	
	D-2	-	MECHA BRACKET		1	
	★ D-3	544010103000D	LASER LABEL(BD)		1	
	1	nsp	CHASSIS(2930)		1	*
	2	nsp	INSIDE PLATE		1	
	3	00M03AJ057210	LEG		4	*
	4	nsp	REAR PANEL UD8004 (U) 38AK	U	1	*
	4	nsp	REAR PANEL UD8004 (K) 38AK	K	1	*
	4	nsp	REAR PANEL UD8004 (N) 38AK	N	1	*
	4	nsp	REAR PANEL UD8004 (R) 38AK	R	1	*
	4	nsp	REAR PANEL UD8004 (S) 38AK	S	1	*
⚠	5	00D2033996008	AC INLET (2P)		1	
	6	nsp	FAN 2410RL04WS19		1	
	7	nsp	FAN BRACKET		1	
	8	488410016004M	CONTACTOR REAR PANEL UD8004 38AK		1	*
	9	nsp	CORD HOLDER (L50)		4	
	10	00D4458028009	CORD HOLDER		5	
	★ 11	nsp	WIRE CLAMPER		5	
	12	00M194J101010	SUPPORT KGLS-18S		2	
	13	nsp	FERRITE CORE TFC-23-11-14		1	
	14	nsp	FERRITE CLAMP(RFC-6W)		1	
	15	nsp	MECHA BRACKET UD8004 38AK		1	*

NOTE :
We make only 8U-310041AY the service parts.
Please change the destination-resistors when changing 8U-310041AY's destination.
Please refer to BD REGION and DVD REGION (page 125)

	BD	DVD
U	A	1
N	B	2
S	A	3
K	C	6
R	C	5

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	16	418510018000M	TRAY ESCUTCHEON INNER BL UD8004 38AK		1	*
	17	418410017008M	TRAY ESCUTCHEON BL UD8004 38AK		1	*
	18	nsp	BRACKET PWB AUDIO UD8004 38AK		1	*
	19	nsp	CLAMPER		1	
	20	402410097009M	FRONT AL PANEL BL UD8004 38AK		1	*
	21	421410006004M	MARANTZ BADGE (AL) FOR M1 MODEL		1	
	22	nsp	FRONT MOLD CHASSIS BL UD8004 38AK		1	*
	23	nsp	SHEET EMC UD8004 38AK		1	*
	24	nsp	SHEET EMC UD8004 38AK R		1	*
	25	nsp	LABEL MASK UD8004 38AK		2	*
	26	416510041004M	WINDOW UD8004 38AK		1	*
	27	nsp	BUFFER TRAY FRONT UD8004 38AK		1	*
	28	411510112000M	BUTTON PLAY/EJECT BL UD8004 38AK		2	*
	29	411510113003M	BUTTON SCAN/P.DIRECT BL UD8004 38AK		2	*
	30	402510095002M	ESCUTCHEON L BL UD8004 38AK		1	*
	31	411510021005M	BUTTON BL		1	
	32	481510003006M	LENS		1	
	33	481510003006M	LENS		1	
	34	402510096005M	ESCUTCHEON R BL UD8004 38AK		1	*
	35	nsp	FRONT CHASSIS UD8004 38AK		1	*
	36	nsp	BUFFER		2	
	37	403310039014M	TOP COVER BL UD8004 38AK		1	*
	38	nsp	MASK TOP LID REAR		1	
	39	nsp	RUBBER FORM		1	
	40	nsp	DAMPER		1	*
	41	nsp	4X35 CPTS(S)-B		4	
	★ 42	nsp	EMIGASKET RFSG060100		-	
	★ 43	nsp	LABEL LICENCE UD8004 38AK		1	*
WIRES						
	★ 301	nsp	SMCD-17X70-BDX8(BL)-P1.0-S4M		1	
	★ 302	nsp	SMCD-21X70-BDX6(BL)-P1.0-S4-M		1	
	★ 303	nsp	SMCD-33X70-BDX6(BL)-P1.0-S4		1	
	★ 304	6060500520155	FFC 50P 110mm 0.5mm AD		1	
	★ 305	606050054011S	FFC 18P 190mm 1.0mm BD		1	
	★ 306	606050054028S	FFC 24P 250mm 1.0mm BD		1	
	★ 307	606050054035S	FFC 33P 140mm 1.0mm BD		1	
	★ 308	606050098004S	FFC 40P 100mm 0.5mm BD		1	
	★ 309	606050098011S	FFC 45P 100mm 0.5mm BD		1	
	★ 310	606050100006S	FFC 15P 116mm 0.5mm AD		1	
⚠	★ 311	nsp	2P 170mm VA		1	
	★ 312	nsp	6P 100mm PH-PH		1	
	★ 313	nsp	PHR-3 130MM UL1430 AWG24		1	*
	★ 314	nsp	EHR-4 60MM UL1007 AWG28		1	*
	★ 315	nsp	PHR-3 410MM UL1007 AWG28		1	*
	★ 316	nsp	EHR-6 90MM UL1430 AWG24		1	*
	★ 317	nsp	VAR2 800MM UL1672 AWG18		1	*
	★ 318	nsp	EHR-6 120MM UL1430 AWG24		1	*
	★ 319	nsp	PHR-4 150MM UL1007 AWG28		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.

Note: The symbols in the column "Remarks" indicate the following destinations.

U : North America model　　N : Europe model　　R : Russia model

S : Singapore model　　K : Chaina model

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	201	541110396024M	USER MANUAL UD8004 (U) 38AK	U	1	*
	201	541110396055M	USER MANUAL UD8004 (K) 38AK	K	1	*
	201	541110396031M	USER MANUAL UD8004 (N.S) 38AK	N, R, S	1	*
	202	nsp	WARRANTY USA	U	1	
	202	nsp	WARRANTY CANADA	U	1	
	203	nsp	BATTERY(R03X2)		1	
	★ 203-1	nsp	BATTERY LABEL (E2)	N, S	1	
	204	307010064009M	RC004UD REMOCON UNIT C.G.DEVELOPMENT		1	*
⚠	205	00MZC01802100	# AC CORDSET 125V13A UL/CSA	U	1	
⚠	205	00MZC01803080	# 2P AC CORD 10A 250V CLASS2	N, R, S	1	
	205	00D2062249001	AC CORD (E1C)	K	1	
	206	nsp	2P PIN CORD		1	
	207	nsp	1P PIN CORD(VIDEO)		1	
	208	533610045108M	CUSHION F UD9004 37AK		1	
	209	533610046101M	CUSHION R UD9004 37AK		1	
	210	531210127053M	PACKING CASE UD8004 38AK		1	*
	211	nsp	SHIPPING LABEL SEETE		2	
	212	nsp	TWIN SHIELDED WIRE WITH RCA PLUGS		1	
	★ 213	nsp	SHEET (AF+PE)		1	
	★ 214	nsp	POLY COVER		1	
	★ 215	nsp	CLEAR LABEL(66X27 T0.05)	U	1	
	★ 216	nsp	GOST FLY SHEET UD8004 38AK	R	1	
	★ 216	nsp	GOST FLY SHEET UD8004 38AK	R	1	

MEASURING METHOD AND WAVEFORMS

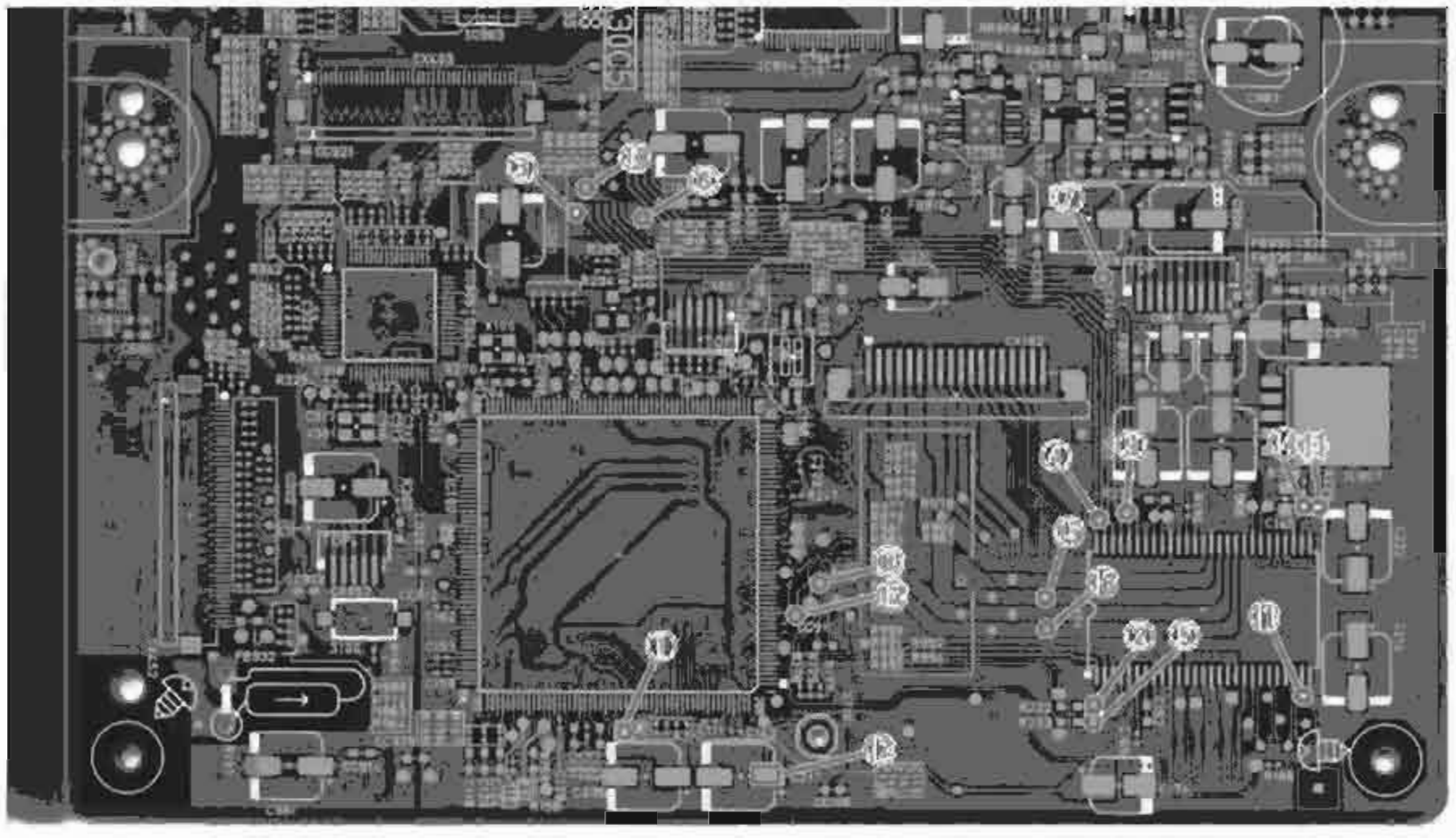
Measuring Disc: CD/TCD-784
DVD/VT502 or TDV-520A
BD/ABD-520 or BLX-108

To check the waveforms on the FE/SACD UNIT, the GND (-) probe to "⑰VC" point.
① ~ ⑯ 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 "7. 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.
※There is no test point at "⑰VC" . Please use the point on the + side of C217.

1. MAIN UNIT : TEST POINT AND WAVEFORMS

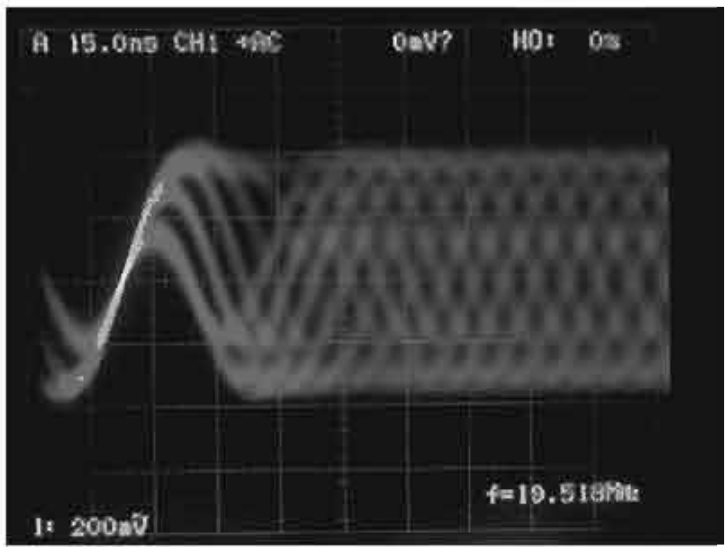


8U-310037 FE/SACE UNIT : Component Side

BD PLAY Disc : ABD-520

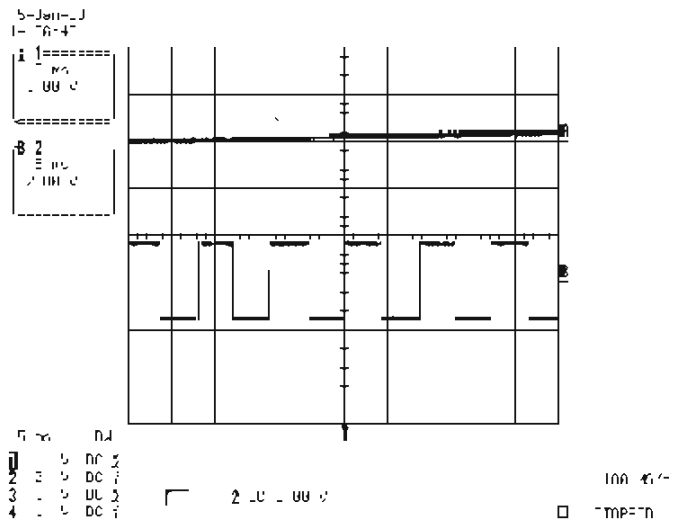
HF wave form

① ATEST



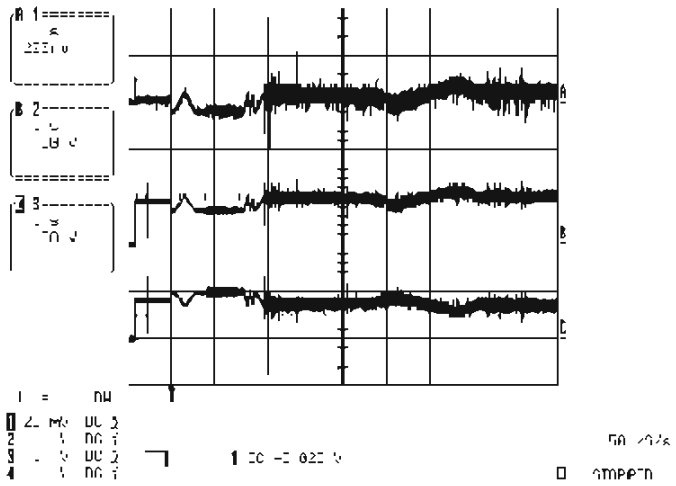
⑪ SPD
⑫ FG

BD PLAY (INNER)



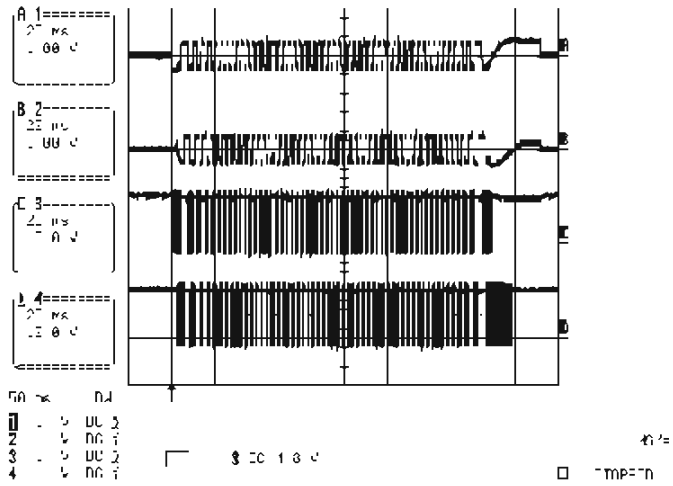
BD LOADING → PLAY

② FODP
③ FCS1+
④ FCS1-



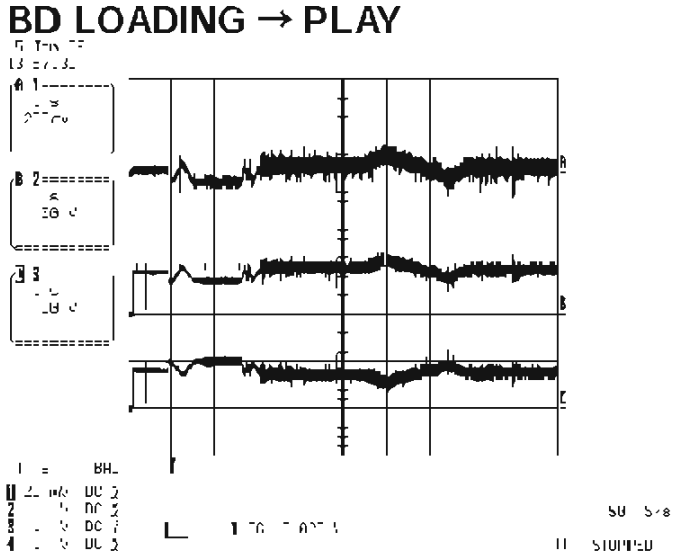
BD SEARCH (INNER → OUTER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



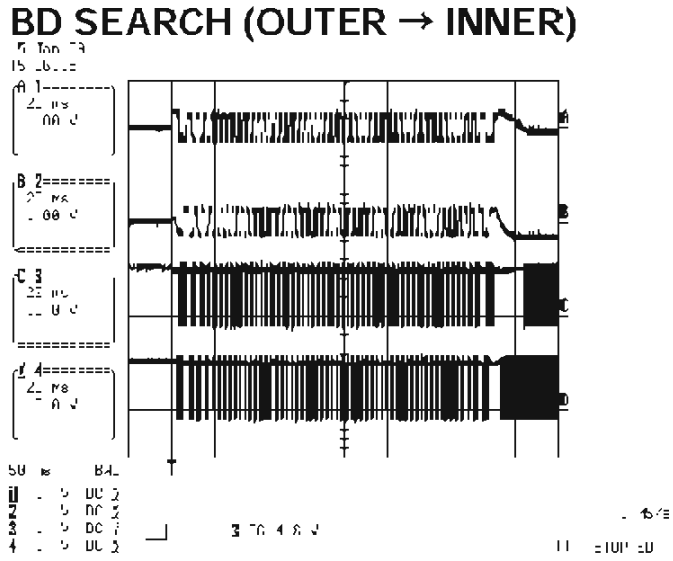
BD LOADING → PLAY

⑤ FODN
⑥ FCS2+
⑦ FCS2-



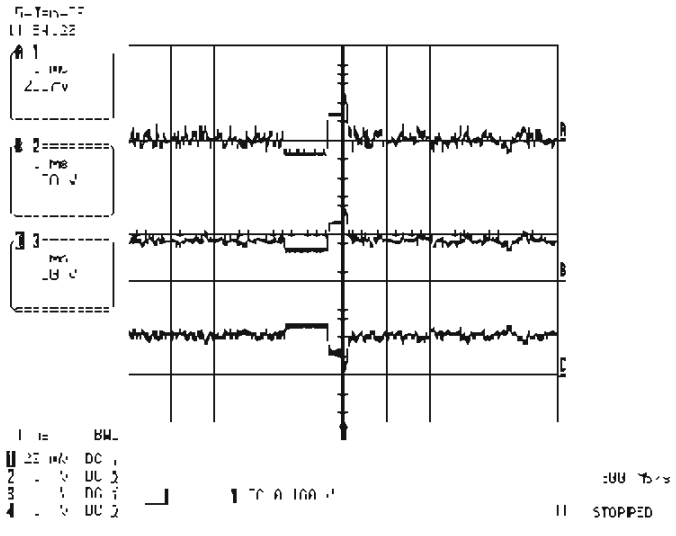
BD SEARCH (OUTER → INNER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



BD PLAY

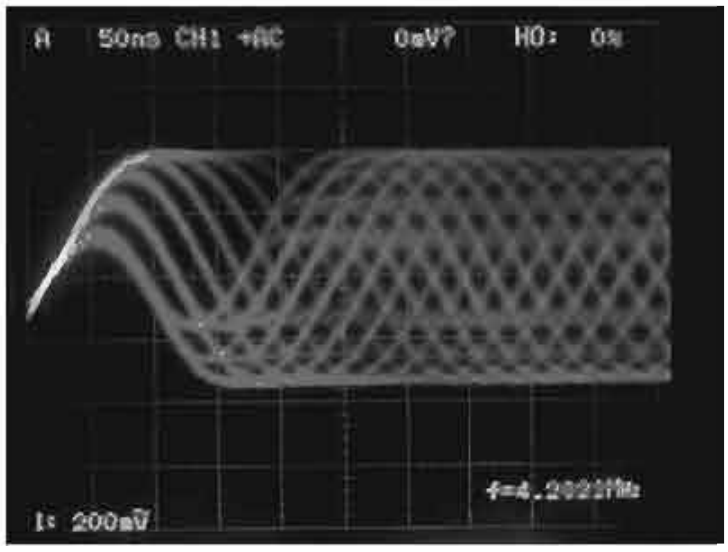
⑧ TRD
⑨ TRK+
⑩ TRK-



DVD PLAY Disc : TDV-520A

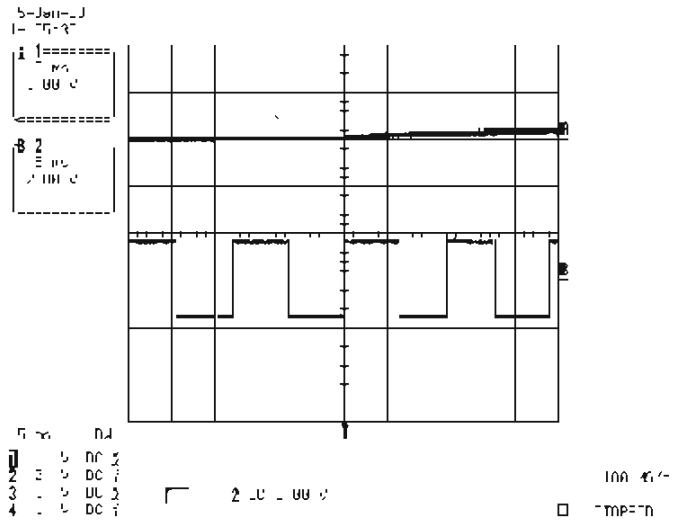
HF wave form

① ATEST



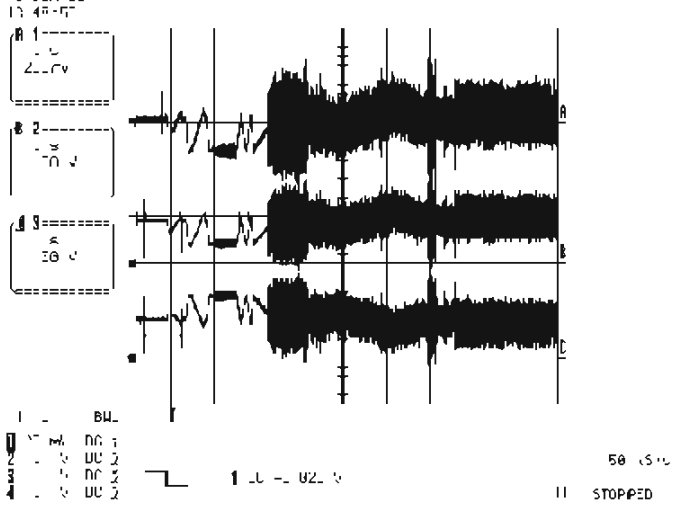
⑪ SPD
⑫ FG

DVD PLAY (INNER)



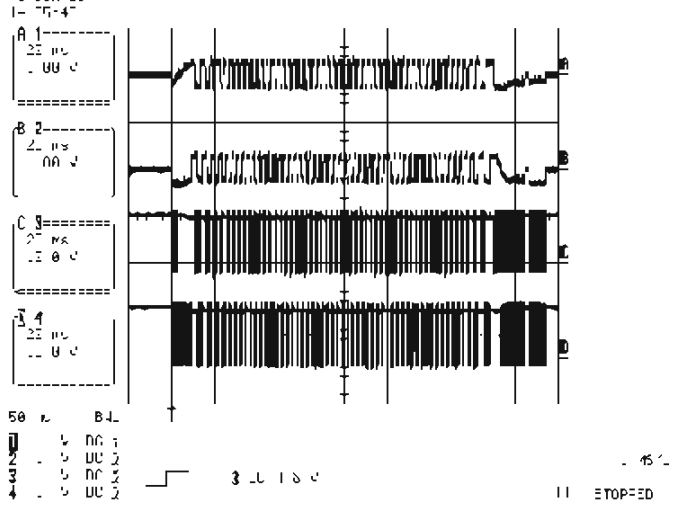
DVD LOADING → PLAY

② FODP
③ FCS1+
④ FCS1-



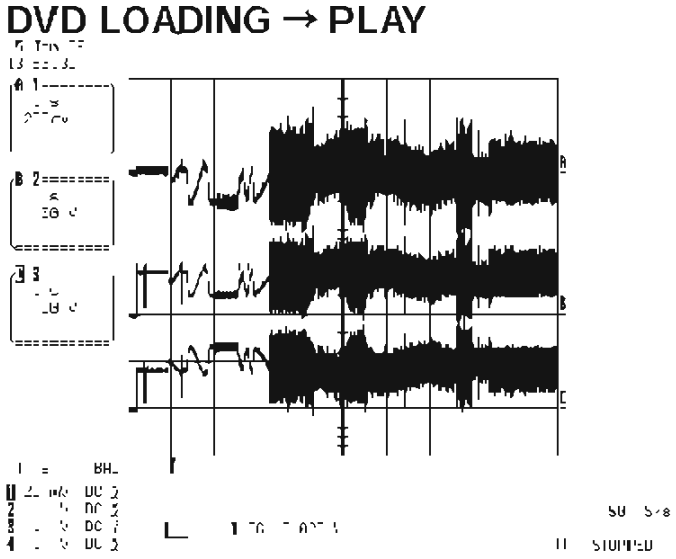
DVD SEARCH (INNER → OUTER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



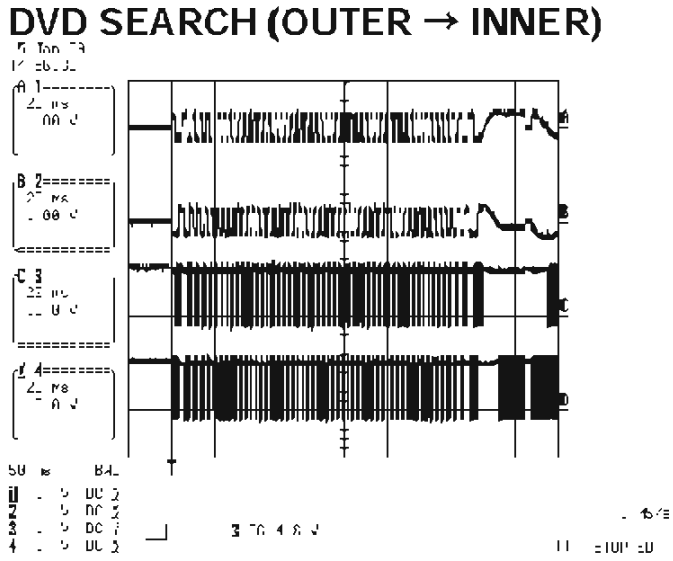
DVD LOADING → PLAY

⑤ FODN
⑥ FCS2+
⑦ FCS2-



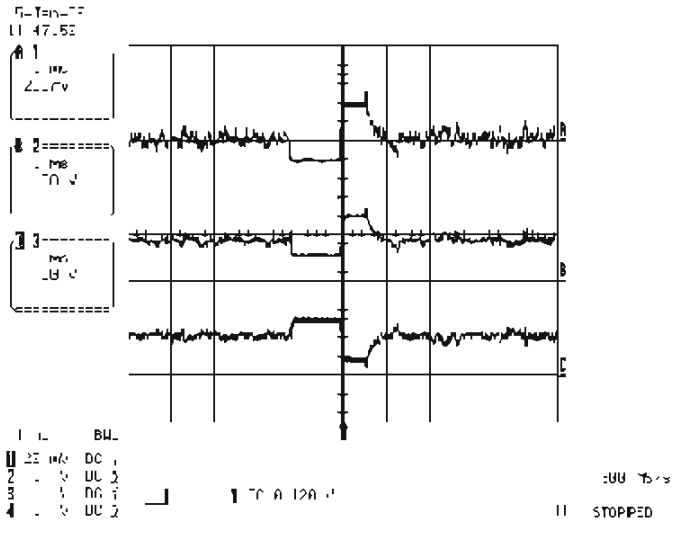
DVD SEARCH (OUTER → INNER)

⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



DVD PLAY

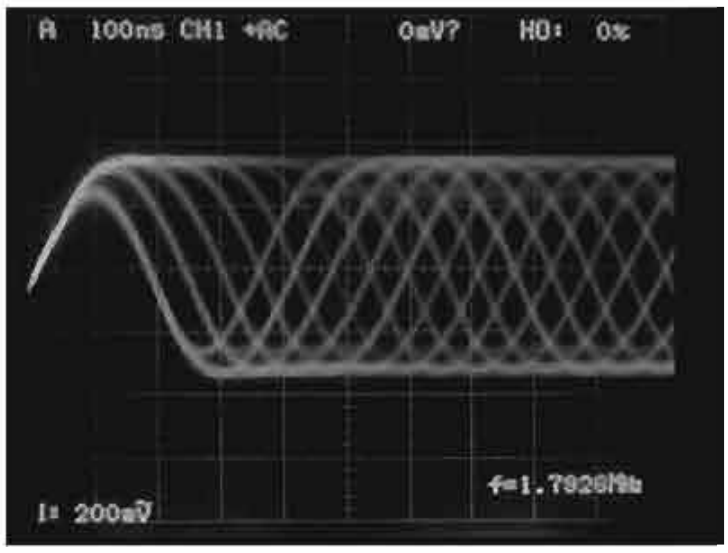
⑧ TRD
⑨ TRK+
⑩ TRK-



CD PLAY Disc: TCD-784

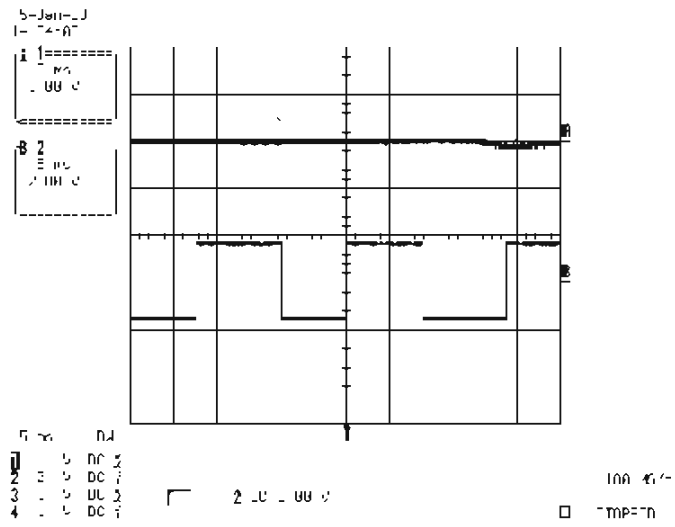
HF wave form

① ATEST



⑪ SPD
⑫ FG

CD PLAY (INNER)



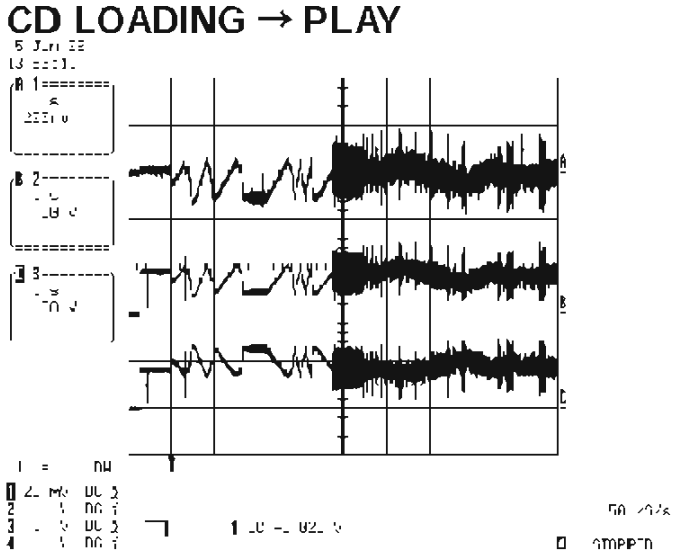
CD LOADING → PLAY

② FODP
③ FCS1+
④ FCS1-

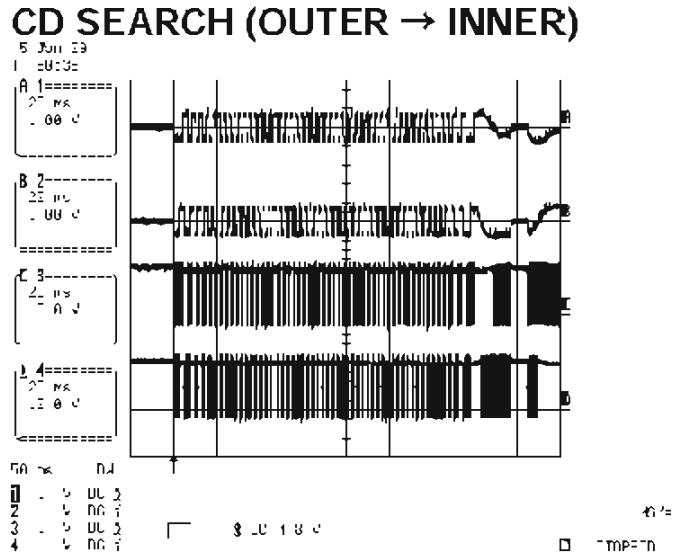
⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-

CD LOADING → PLAY

⑤ FODN
⑥ FCS2+
⑦ FCS2-

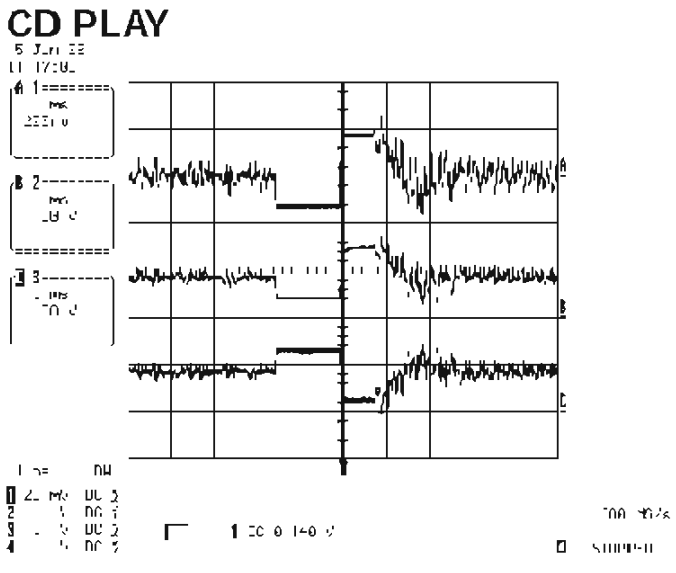


⑬ SLED+
⑭ SLED-
⑮ SL1+
⑯ SL2-



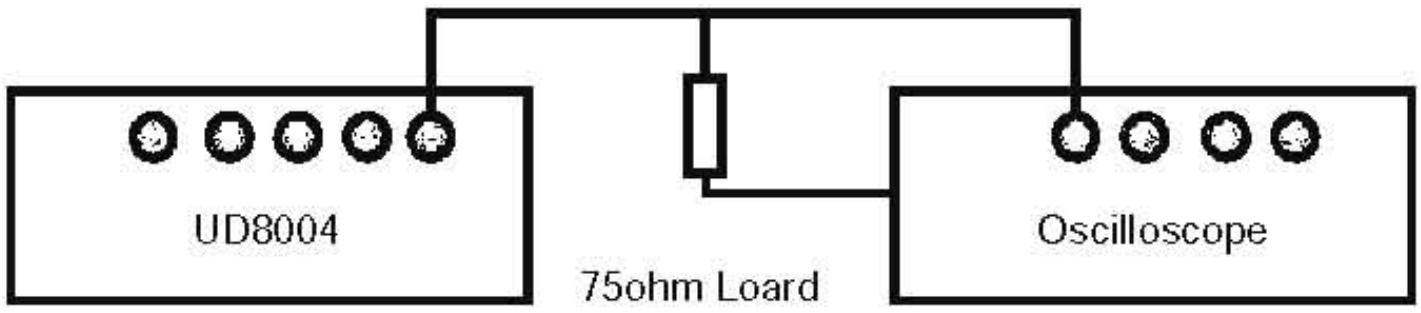
CD PLAY

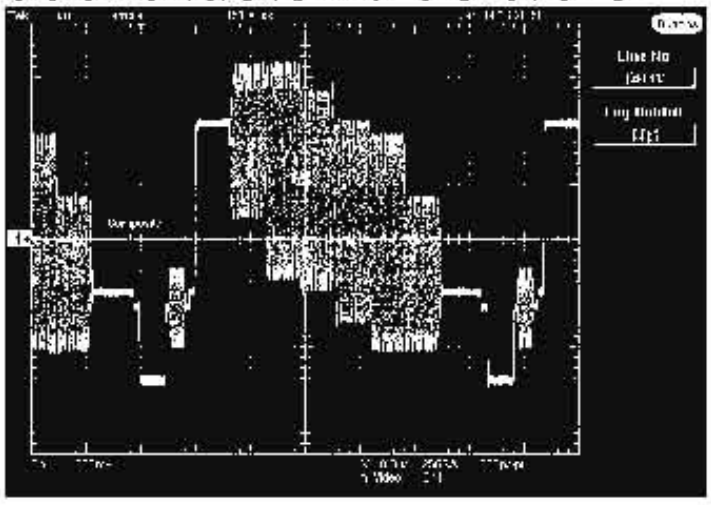
⑧ TRD
⑨ TRK+
⑩ TRK-

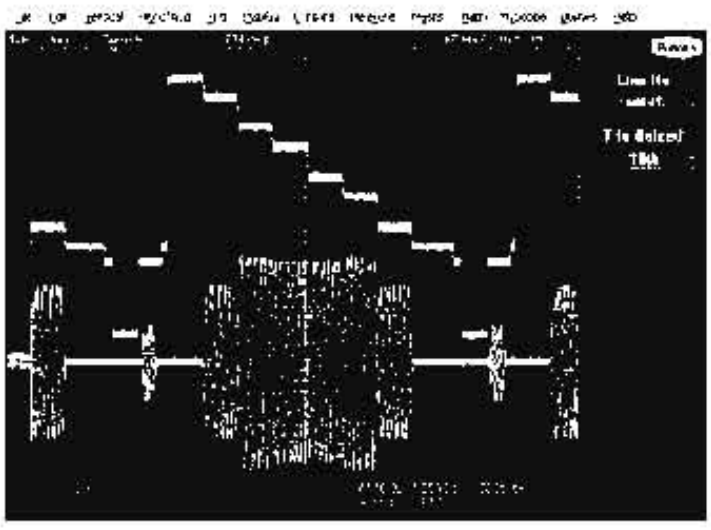


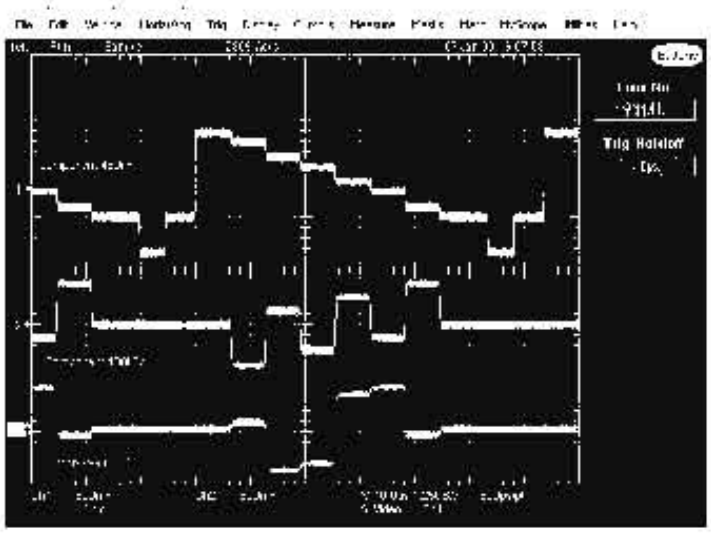
ANALOG VIDEO OUTPUT SIGNAL

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:

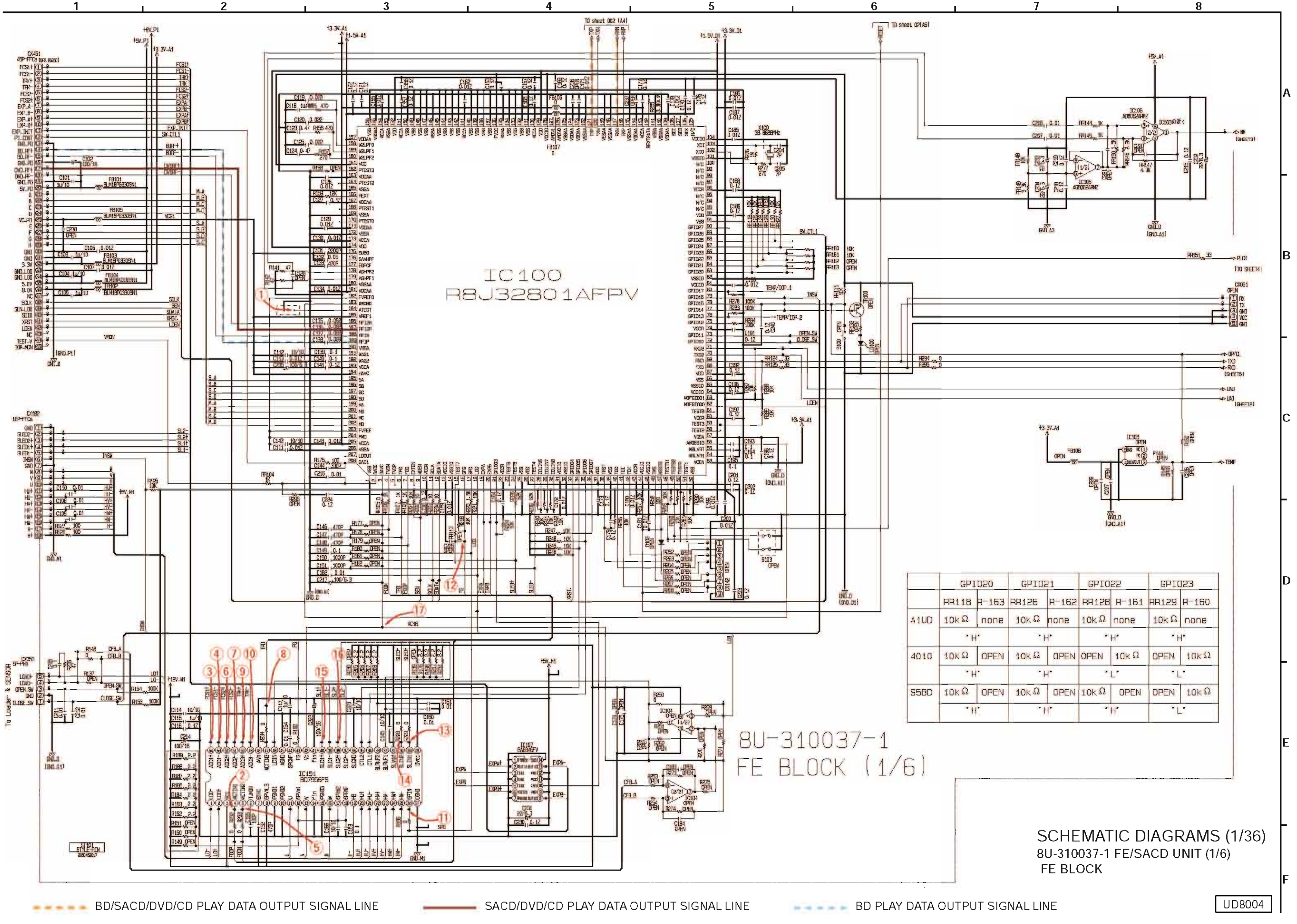
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

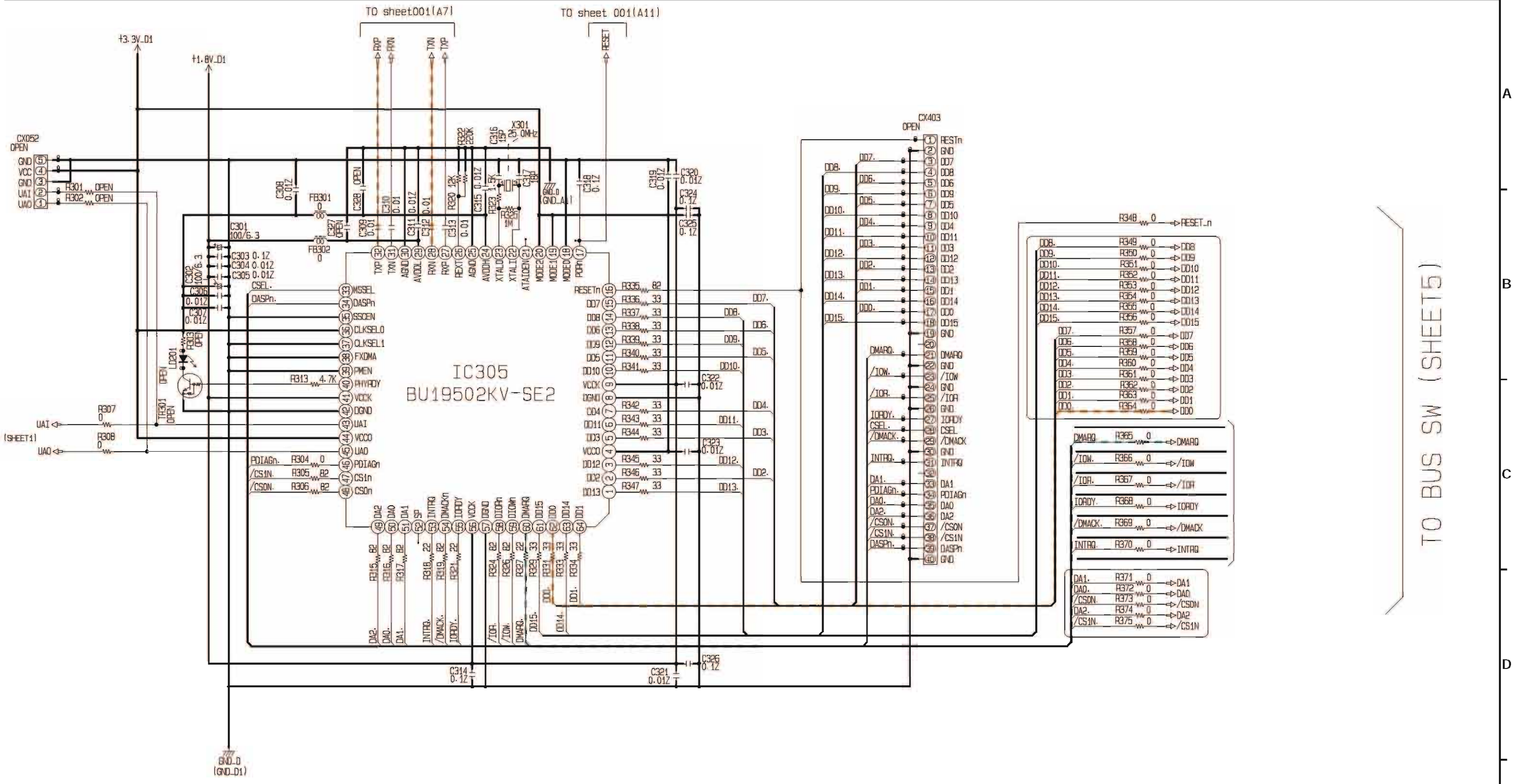
DO NOT return the unit to the customer until the problem is located and corrected.

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.



	GPIO20		GPIO21		GPIO22		GPIO23	
	RR118	R-163	RR126	R-162	RR128	R-161	RR129	R-160
A1UD	10kΩ	none	10kΩ	none	10kΩ	none	10kΩ	none
	"H"		"H"		"H"		"H"	
4010	10kΩ	OPEN	10kΩ	OPEN	OPEN	10kΩ	OPEN	10kΩ
	"H"		"H"		"L"		"L"	
S5BD	10kΩ	OPEN	10kΩ	OPEN	10kΩ	OPEN	OPEN	10kΩ
	"H"		"H"		"H"		"L"	



8U-310037-1
SATA-ATAPI BLOCK (2/6)

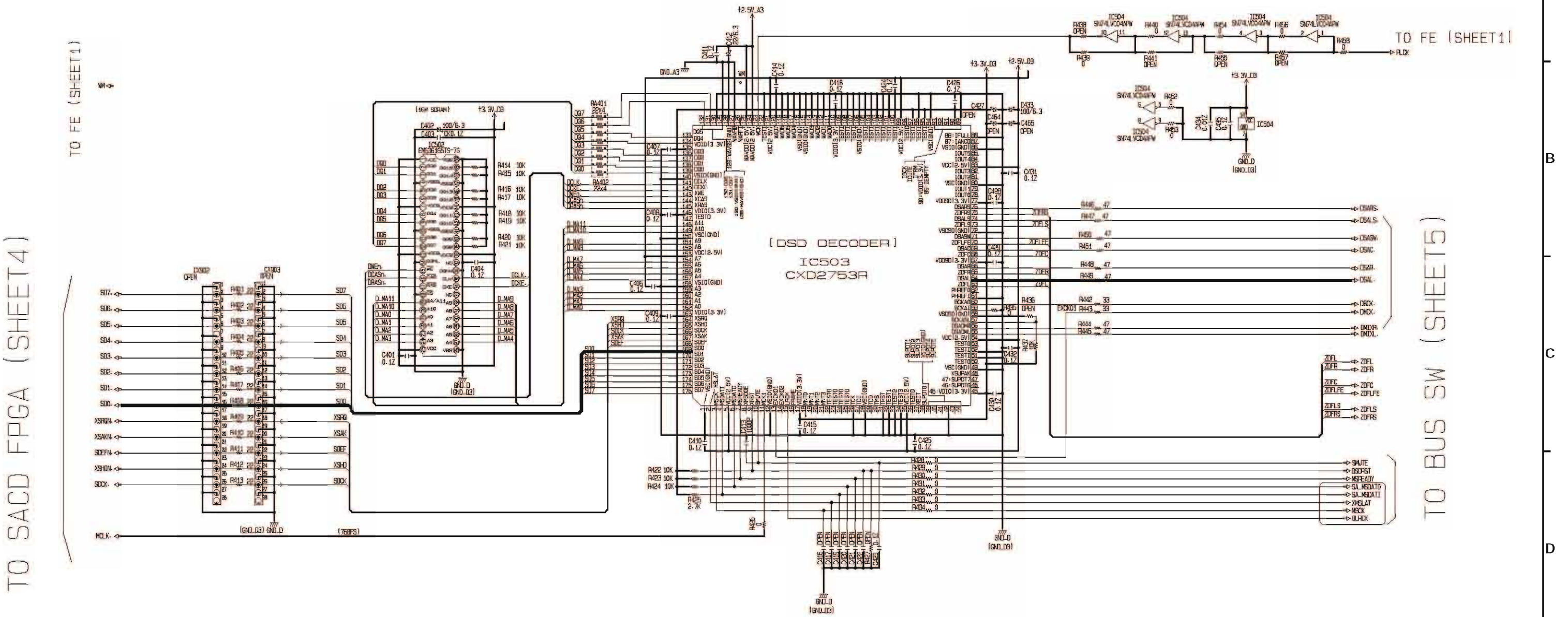
BD/SACD/DVD/CD PLAY DATA OUTPUT SIGNAL LINE

BD/SACD/DVD/CD CONTROL DATA OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (2/36)

8U-310037-1 FE/SACD UNIT (2/6)
SATA-ATAPI BLOCK

UD8004



8U-310037-1
SACD DECODE BLOCK (3/6)

SACD PLAY DATA OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (3/36)

8U-310037-1 FE/SACD UNIT (3/6)
SACD DECODE BLOCK

UD8004

from BUS SW UNIT (SHEET5)

TO SACD BLOCK (SHEET3)

TO BUS SW BLOCK (SHEET5)

RSV PIN

IC606

IC605
ES29LV160EB-70TGI

VSTEM MONITOR(CMD)

6P-PH
FOR JTAG

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-310037-1
VSTEM-ATAPI BLOCK (4/6)

SACD PLAY DATA OUTPUT SIGNAL LINE

SACD CONTROL DATA OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (4/36)
8U-310037-1 FE/SACD UNIT (4/6)
VSTEM-ATAPI BLOCK

UD8004

TO FE (SHEET2)

TO SACD FPGA (SHEET4)

TO SACD CXD2753R (SHEET3)

TO BE (8U-310001)

FE I/F
ATAPI

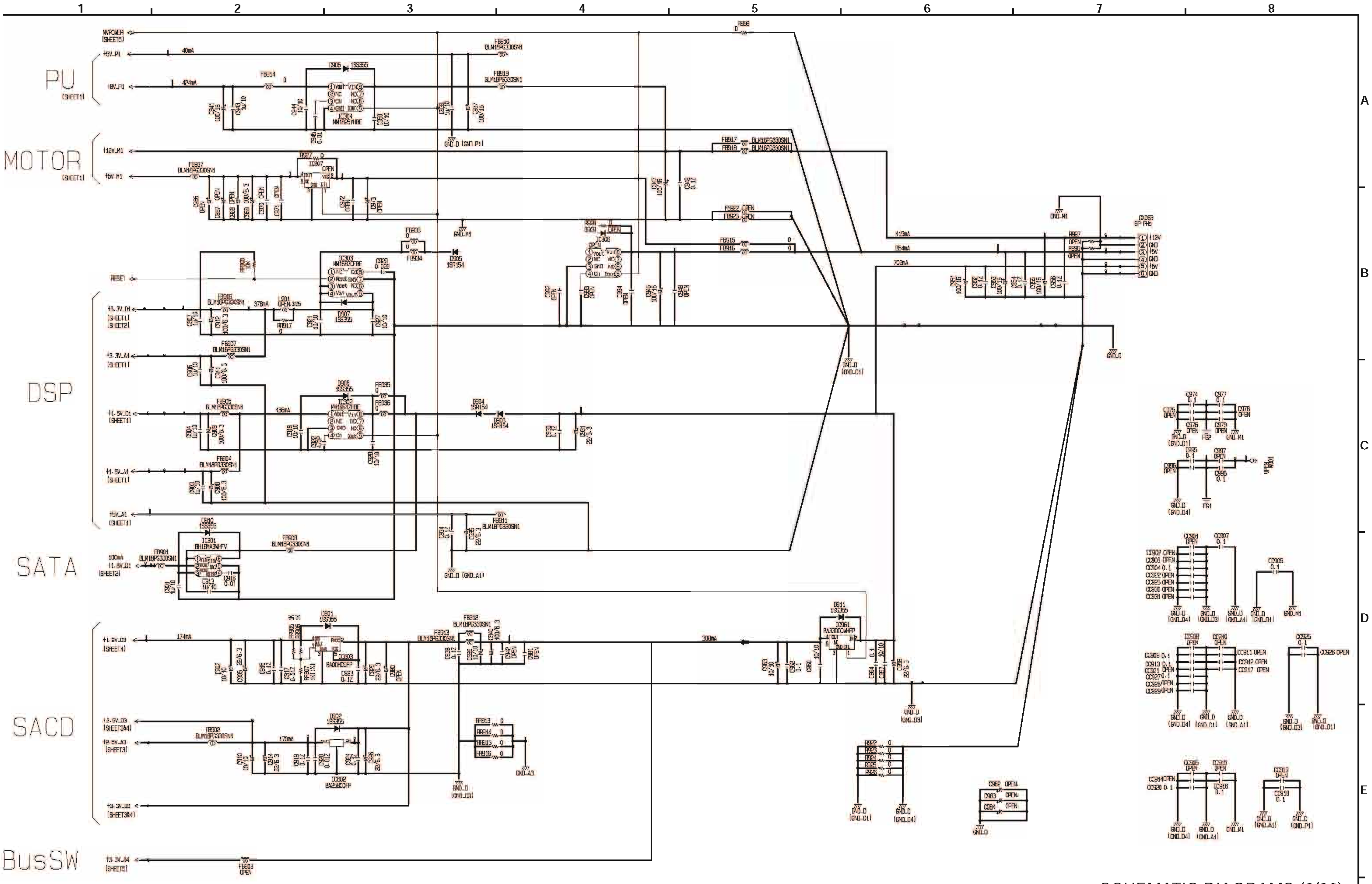
8U-310037-1
BUS SW BLOCK(5/6)

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 (5/36)

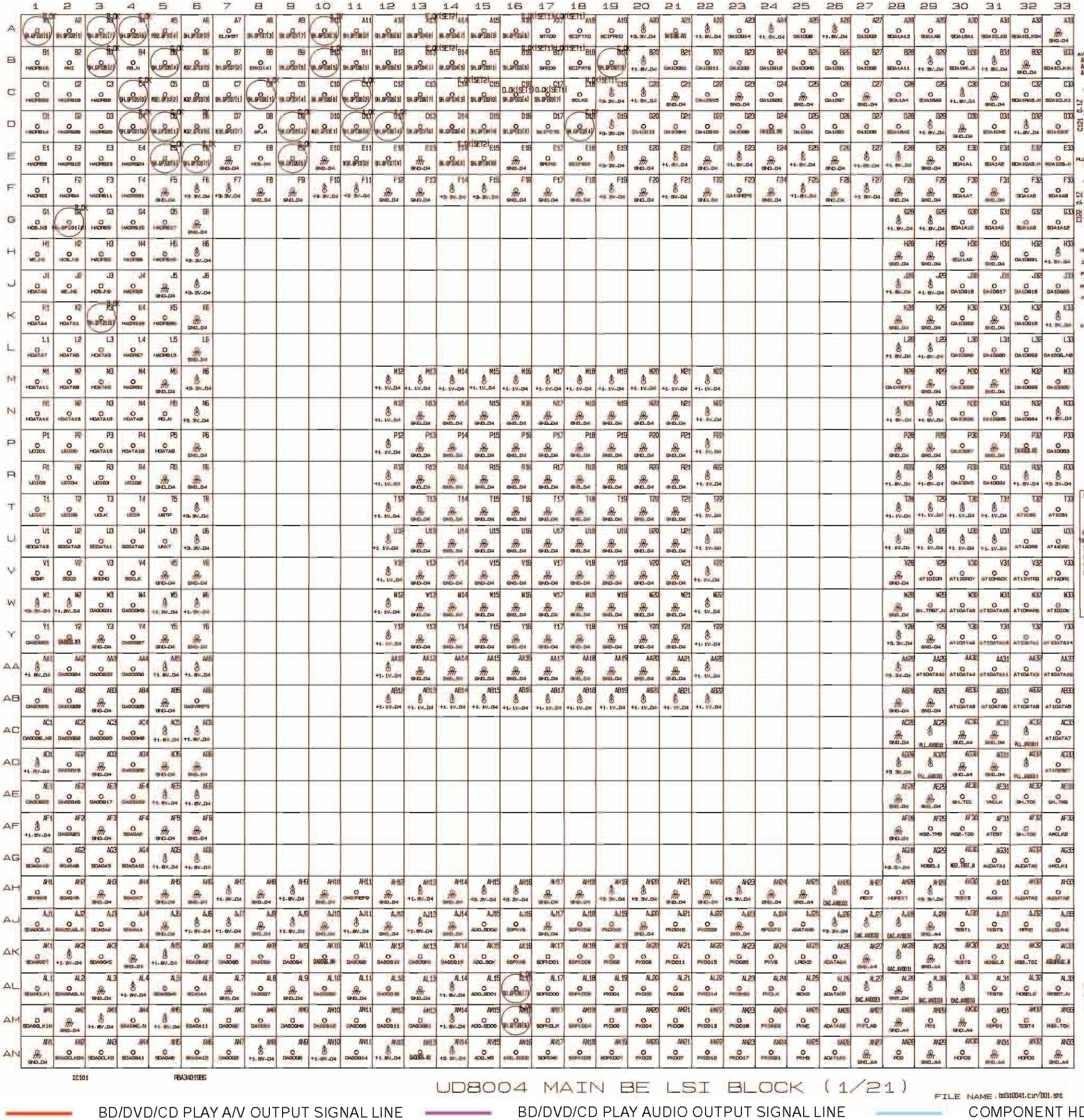
8U-310037-1 FE/SACD UNIT (5/6)
BUS SW BLOCK

UD8004



SCHEMATIC DIAGRAMS (6/36)
8U-310037-1 FE/SACD UNIT (6/6)
POWER BLOCK

UD8004



UD8004 MAIN BE LSI BLOCK (1/21)

FILE NAME : bd310041.cir/001.sht

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

BD/DVD/CD PLAY AUDIO OUTPUT SIGNAL LINE

COMPONENT HDMI VIDEO OUTPUT SIGNAL LINE

BD/DVD/CD PLAY SPDIF OUTPUT SIGNAL LINE

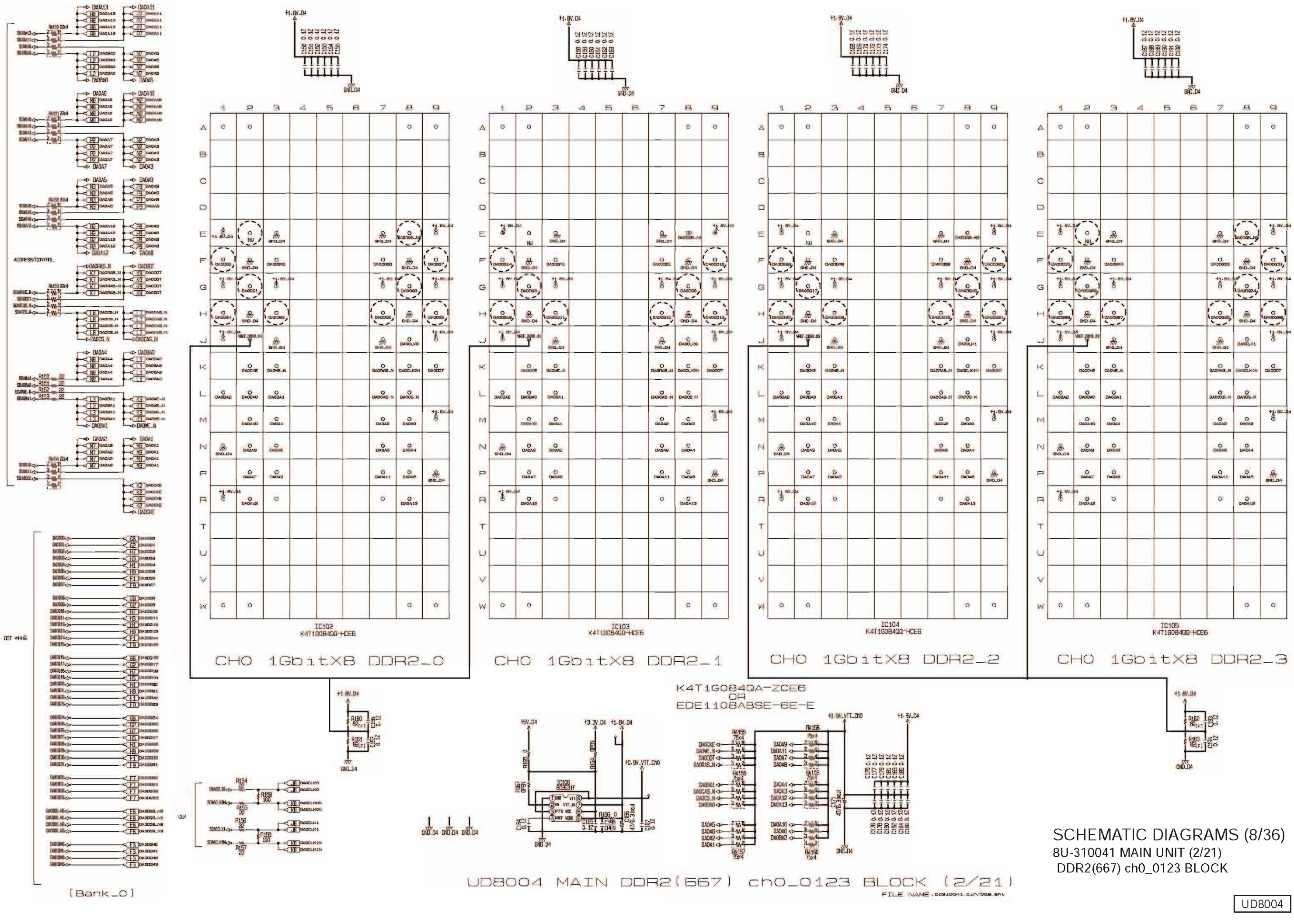
VIDEO, S-VIDEO OUT VIDEO OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (7/36)

8U-310041 MAIN UNIT(1/21)

BE LSI BLOCK

UD8004

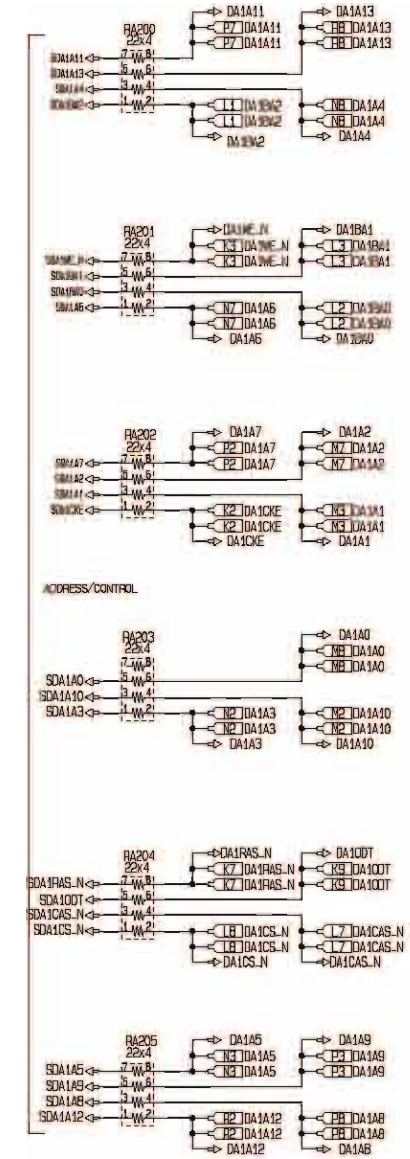


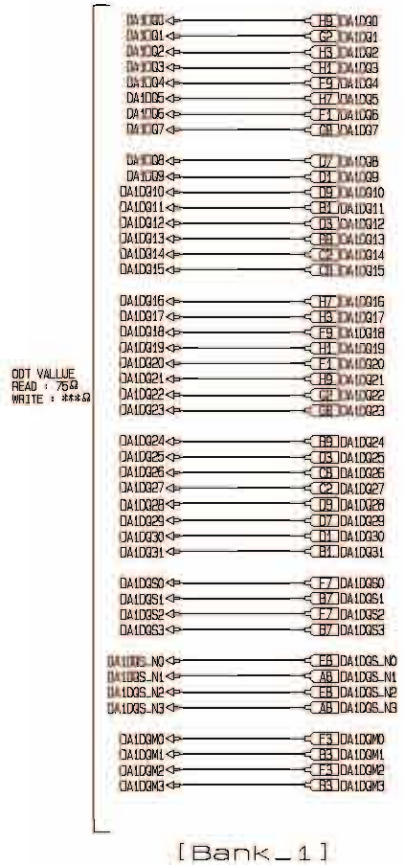
SCHEMATIC DIAGRAMS (8/36)

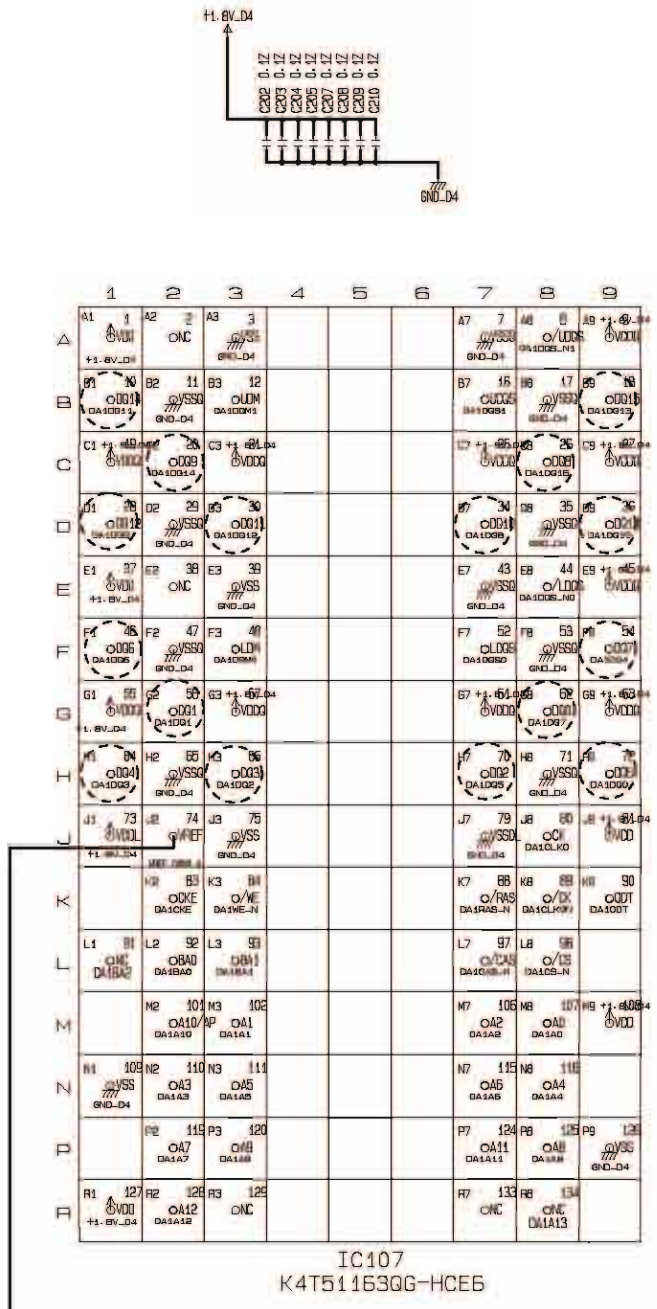
8U-310041 MAIN UNIT (2/21)

DDR2(667) ch0_0123 BLOCK

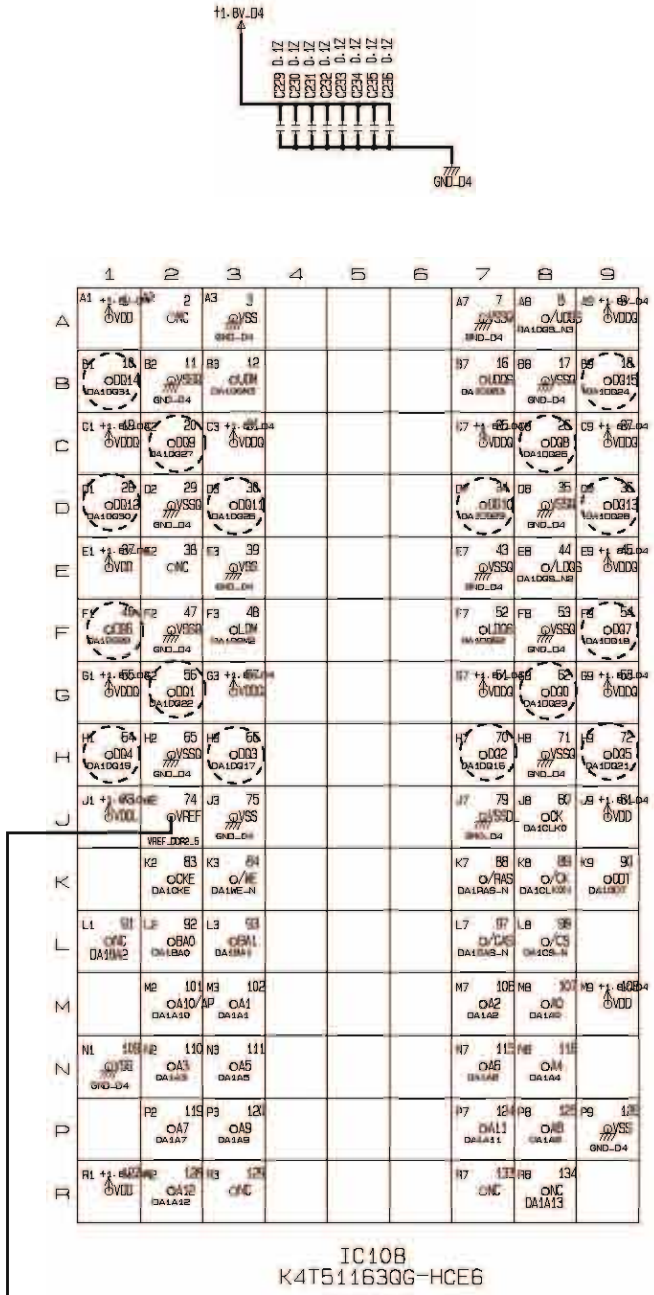
UD8004





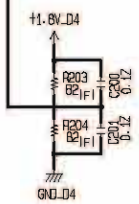


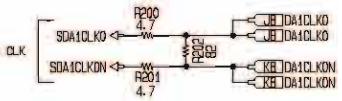
CH1 512MbitX16 DDR2_4

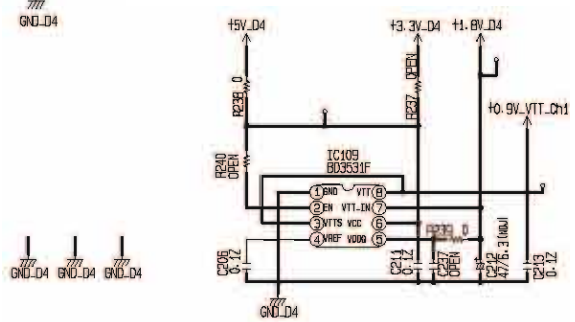


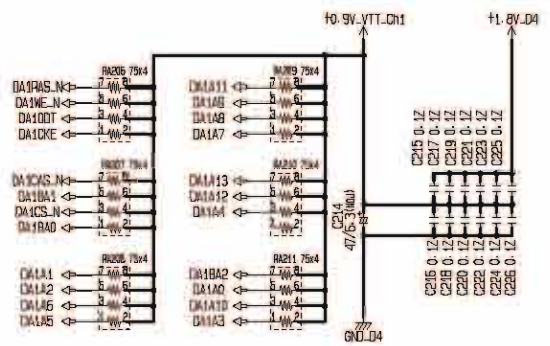
CH1 512MbitX16 DDR2_5

K4T51163QE-ZCE6
OR
EDE5116AHSE-6E-E









UD8004 MAIN DDR2(667) ch1_45 BLOCK (3/21)

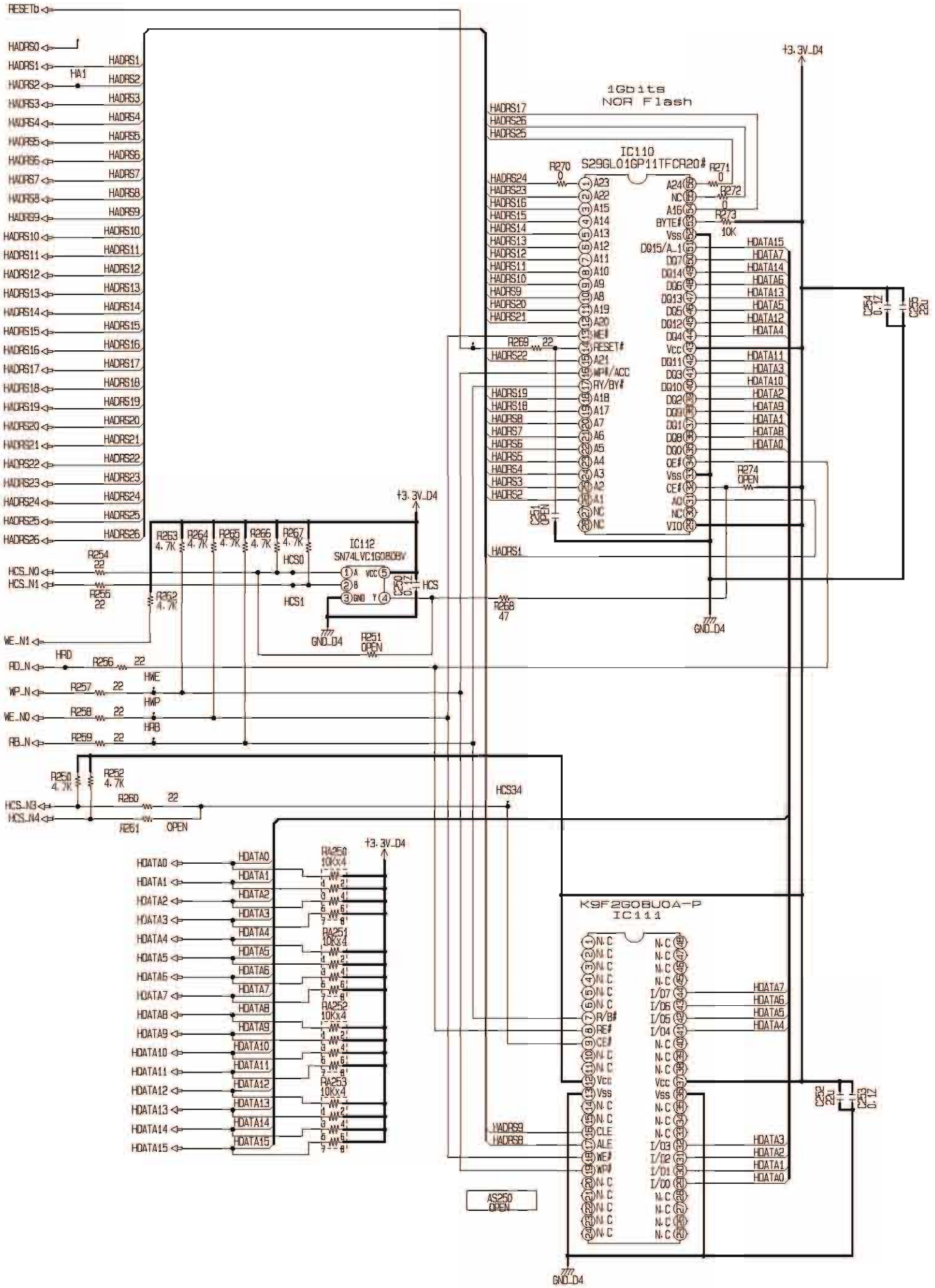
FILE NAME : UD310041.CIR/003.SHT

SCHEMATIC DIAGRAMS (9/36)

8U-310041 MAIN UNIT (3/21)

DDR2(667) ch1_45 BLOCK

UD8004



EBI	NAND
EBI_ADDR25	-
EBI_ADDR24	NAND_R-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	-

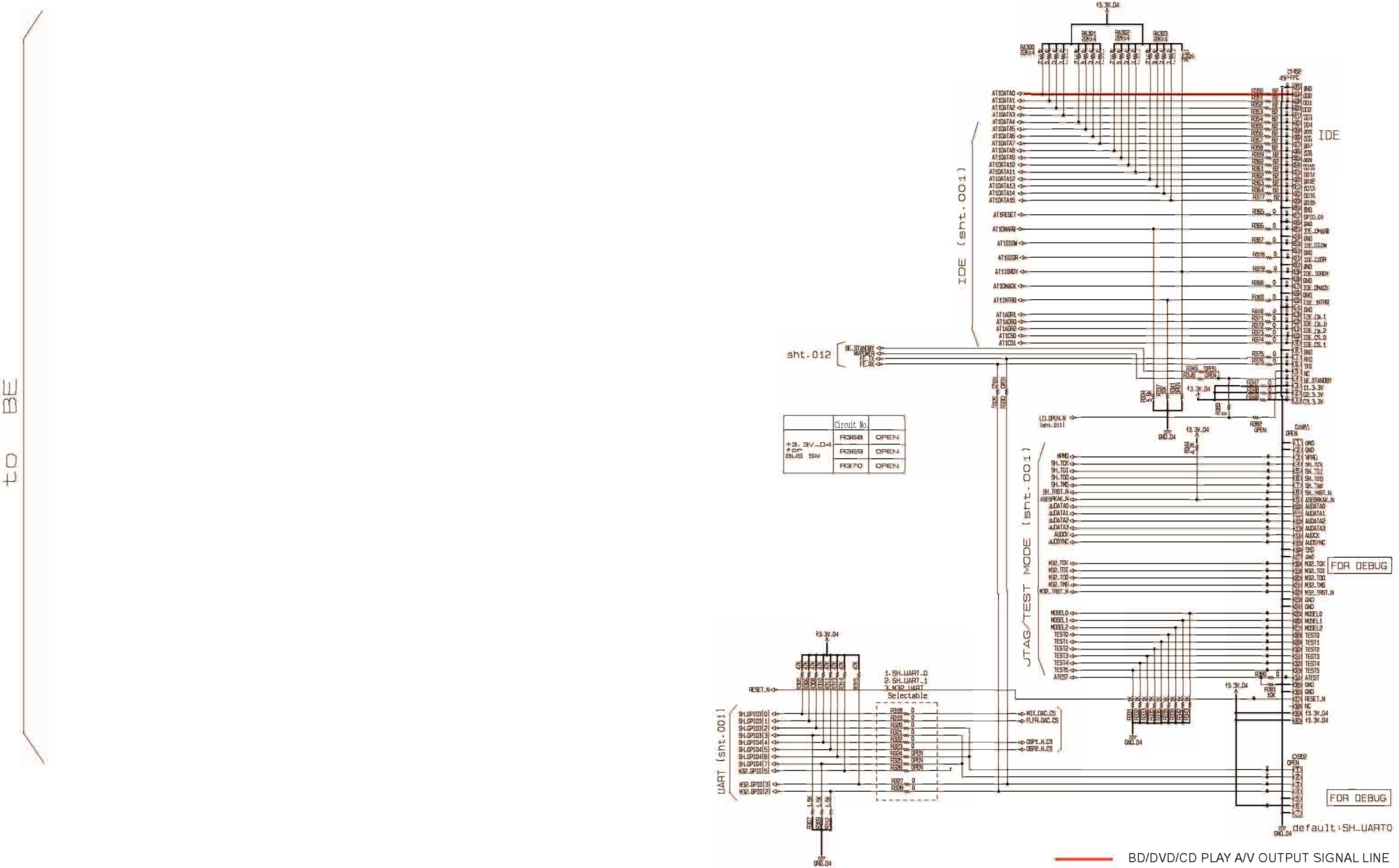
SCHEMATIC DIAGRAMS (10/36)

8U-310041 MAIN UNIT (4/20)

NOR/NAND BLOCK

UD8004

UD8004 MAIN NOR/NAND BLOCK (4/21) FILE NAME : bd310041.cir/004.sht



	Circuit No.	
+3.3V_D4 or BUS SW	R368	OPEN
	R369	OPEN
	R370	OPEN

UD8004 MAIN IDE/DEBUG BLOCK (5/21)

FILE NAME : bd310041.cir/005.sht

SCHEMATIC DIAGRAMS (11/36)

8U-310041 MAIN UNIT (5/21)
IDE/DEBUG BLOCK

UD8004

UD8004
MAIN DIGITAL A/V BLOCK (6/21)

AUDIO I/F

SACD I/F

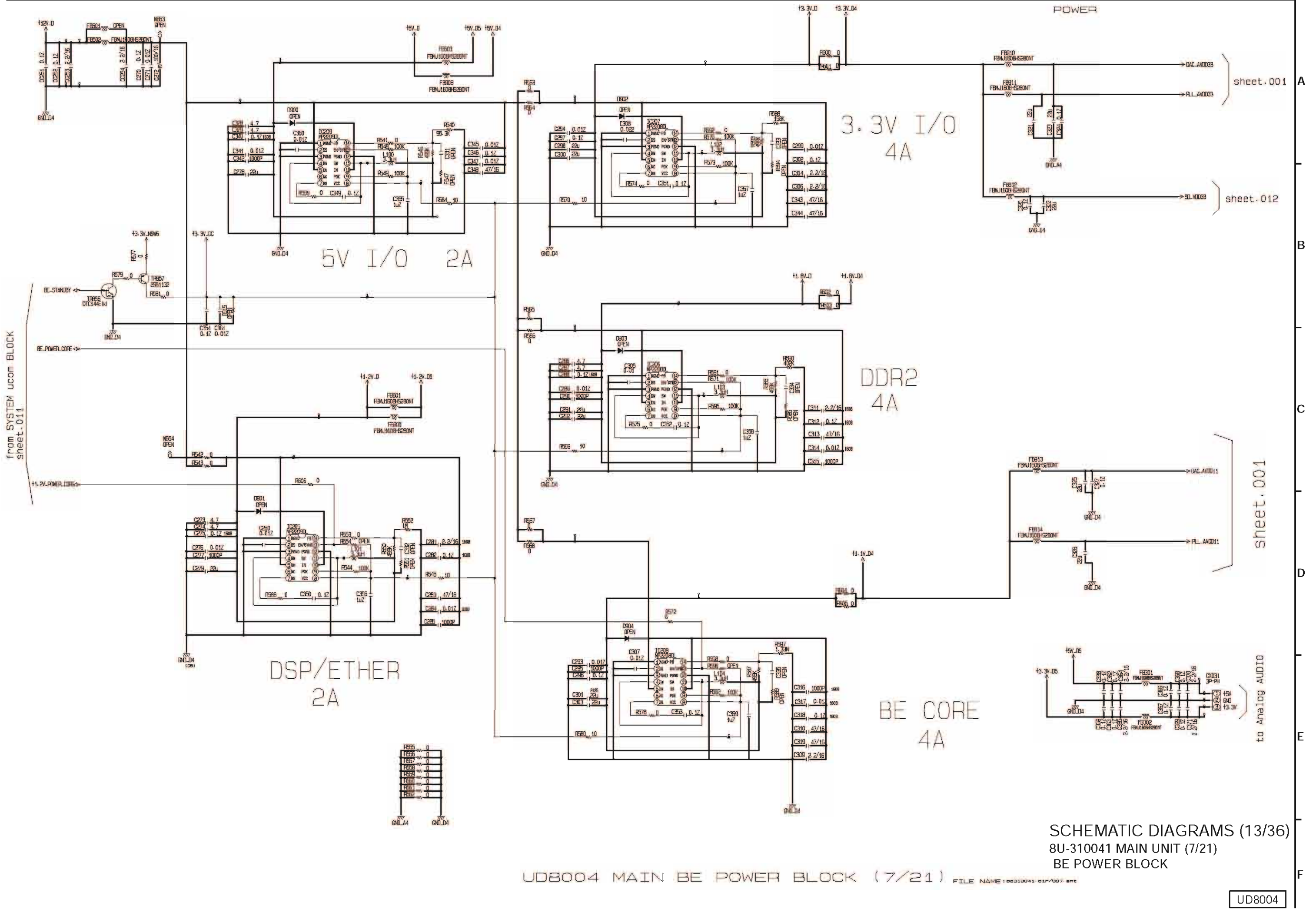
	Circuit No.	
VA_CS	R634	OPEN
	R635	0
	R619	0
	R597	OPEN
MCK_SACD	R621	0
	R622	OPEN
ATAPI1	R618	0
	R***	OPEN

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

FILE NAME : 80310041-DIR/006.emt

SCHEMATIC DIAGRAMS (12/36)
8U-310041 MAIN UNIT (6/21)
DIGITAL A/V BLOCK

UD8004



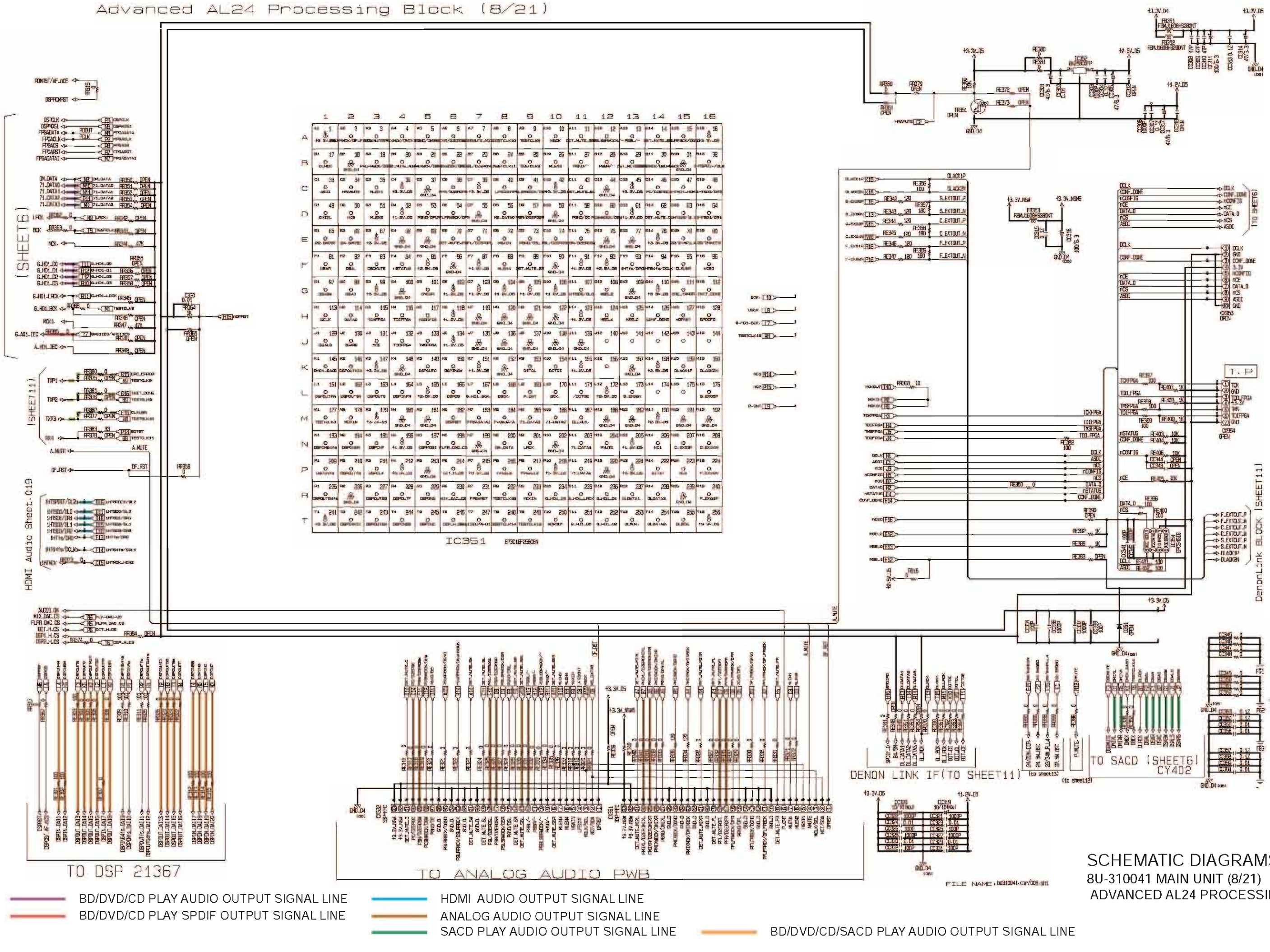
SCHEMATIC DIAGRAMS (13/36)

8U-310041 MAIN UNIT (7/21)

BE POWER BLOCK

UD8004

Advanced AL24 Processing Block (8/21)

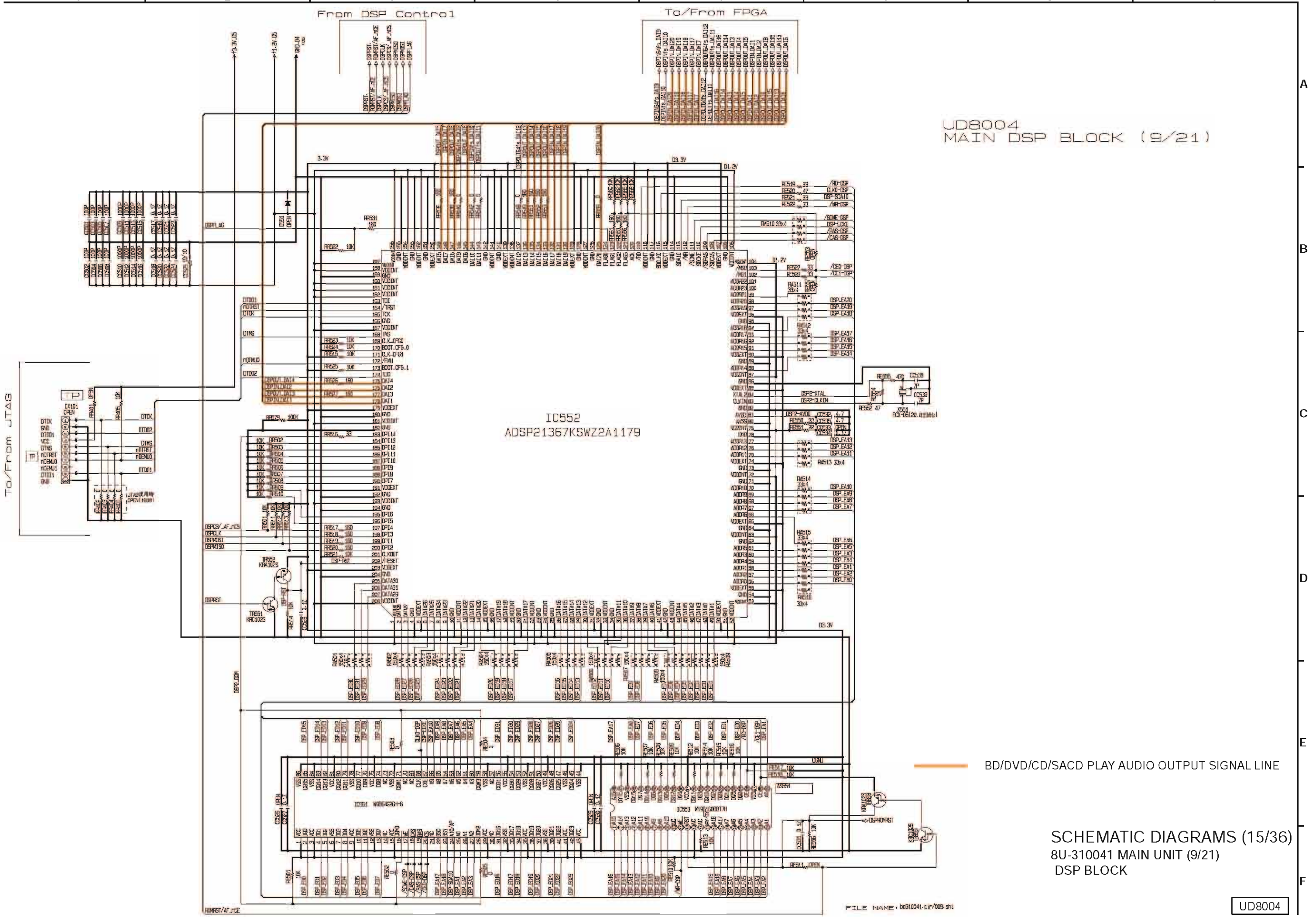


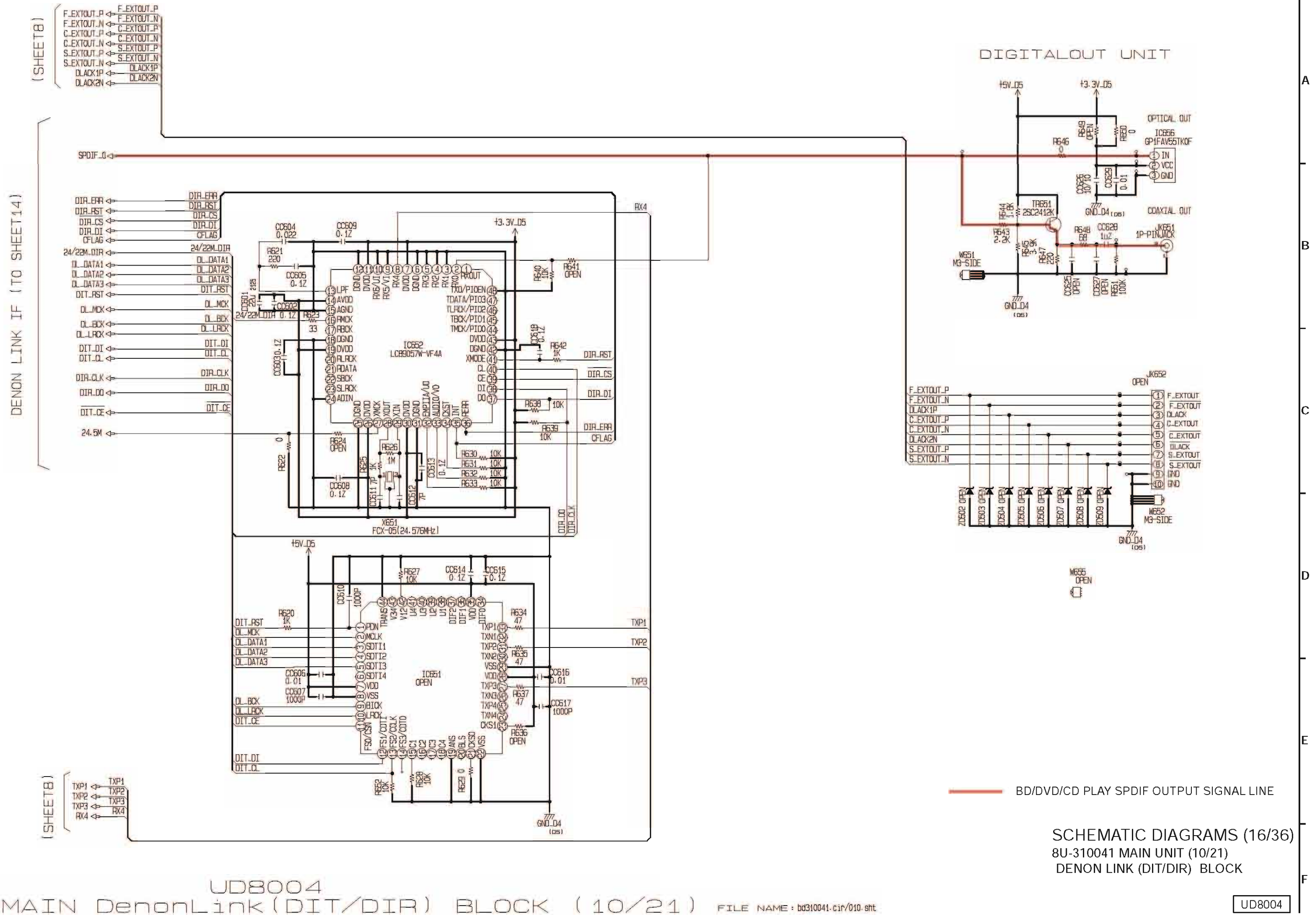
SCHEMATIC DIAGRAMS (14/36)

8U-310041 MAIN UNIT (8/21)

ADVANCED AL24 PROCESSING BLOCK

UD8004


From DSP Control
To/From FPGA
UD8004
MAIN DSP BLOCK (9/21)
IC552
ADSP21367KSWZ2A1179
To/From JTAG
BD/DVD/CD/SACD PLAY AUDIO OUTPUT SIGNAL LINE
SCHEMATIC DIAGRAMS (15/36)
8U-310041 MAIN UNIT (9/21)
DSP BLOCK
UD8004
FILE NAME : bd310041-cir/009.sht

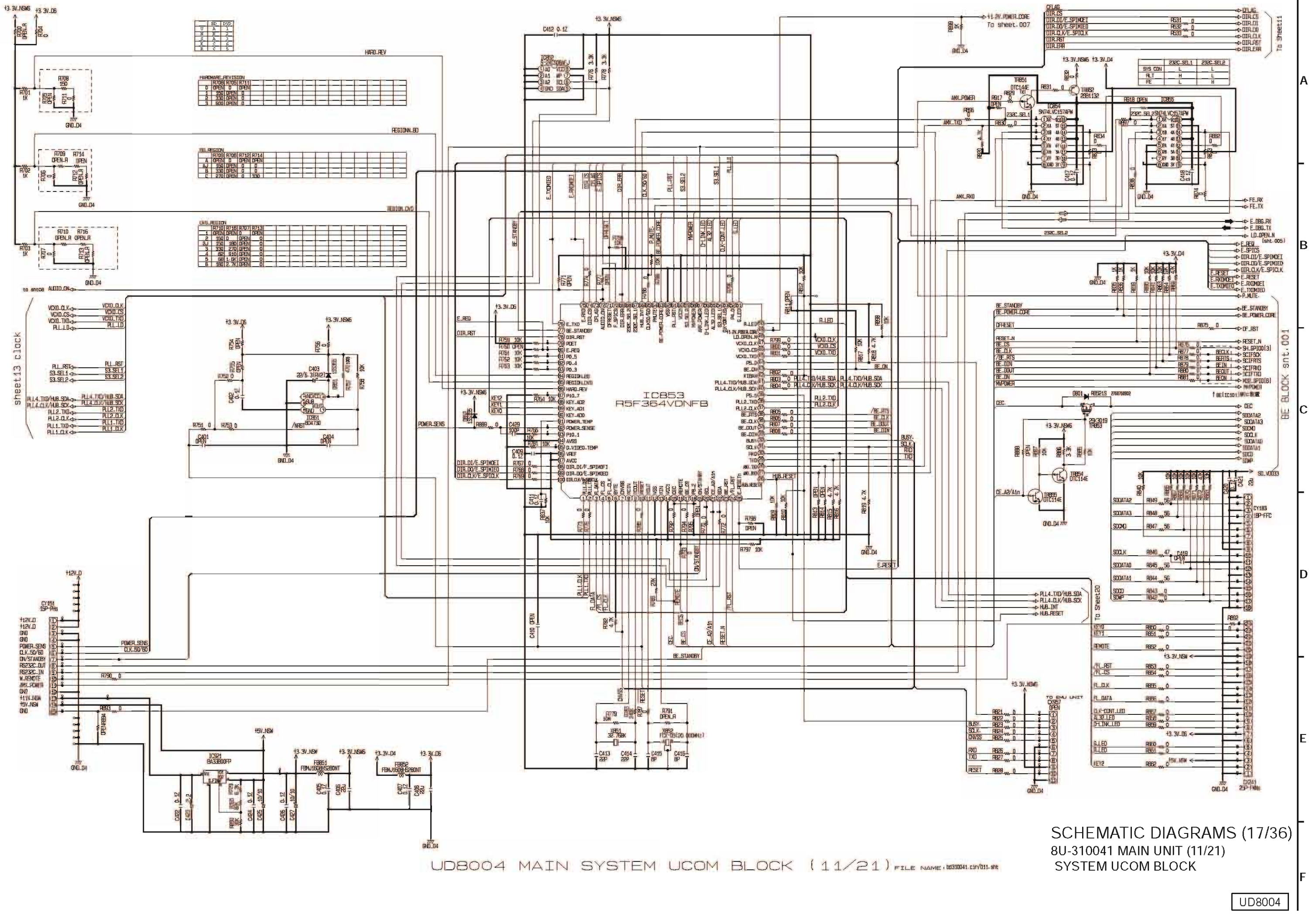


SCHEMATIC DIAGRAMS (16/36)

8U-310041 MAIN UNIT (10/21)
DENON LINK (DIT/DIR) BLOCK

UD8004

UD8004
MAIN DenonLink(DIT/DIR) BLOCK (10/21) FILE NAME : bd310041.cir/010.sht

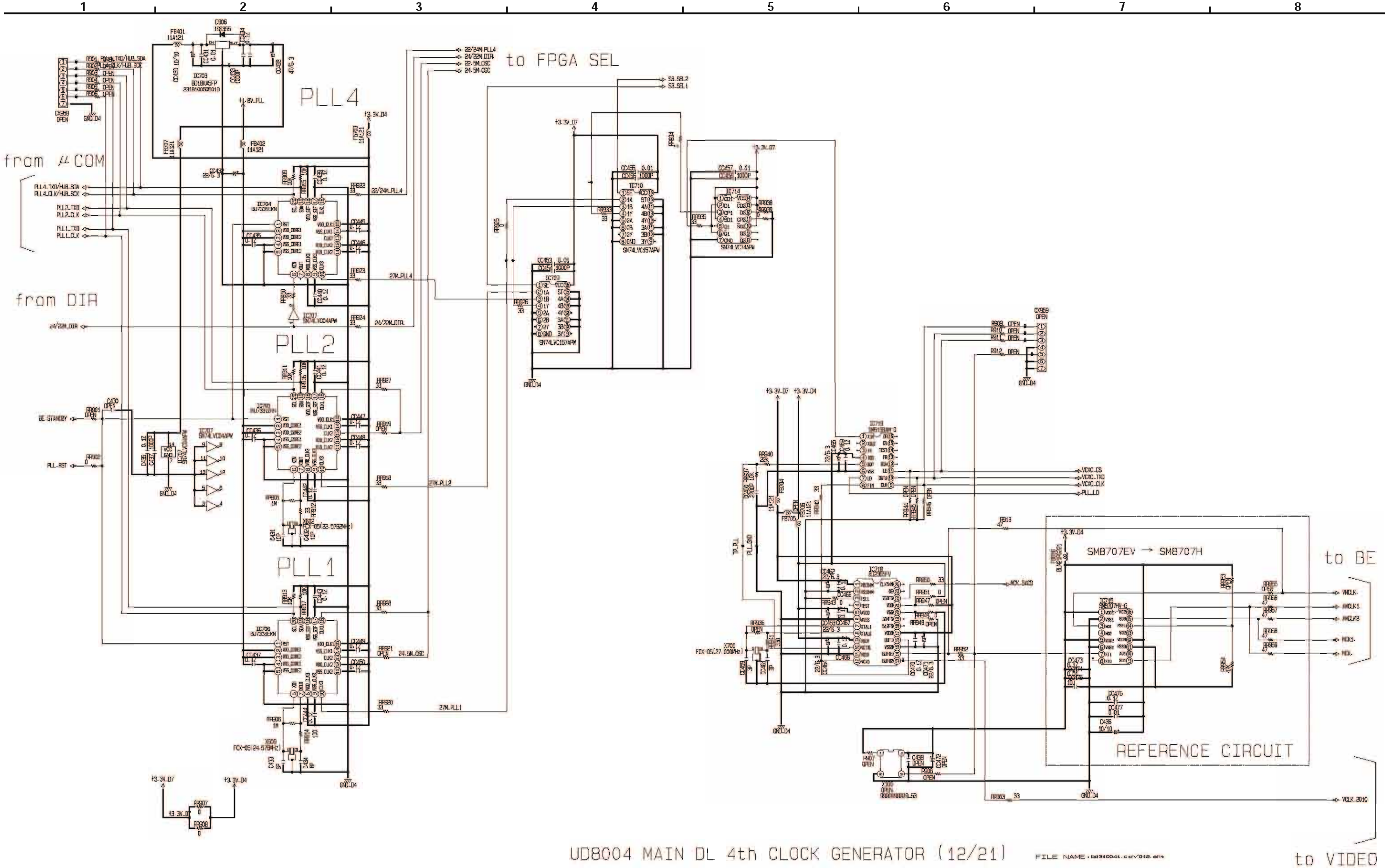


SCHEMATIC DIAGRAMS (17/36)

8U-310041 MAIN UNIT (11/21)

SYSTEM UCOM BLOCK

UD8004



SCHEMATIC DIAGRAMS (18/36)

8U-310041 MAIN UNIT (12/21)

DL 4th CLOCK GENERATOR BLOCK

UD8004

JTAG

I/O
2A

I/O
2A

LSI CORE/DDR2
2A

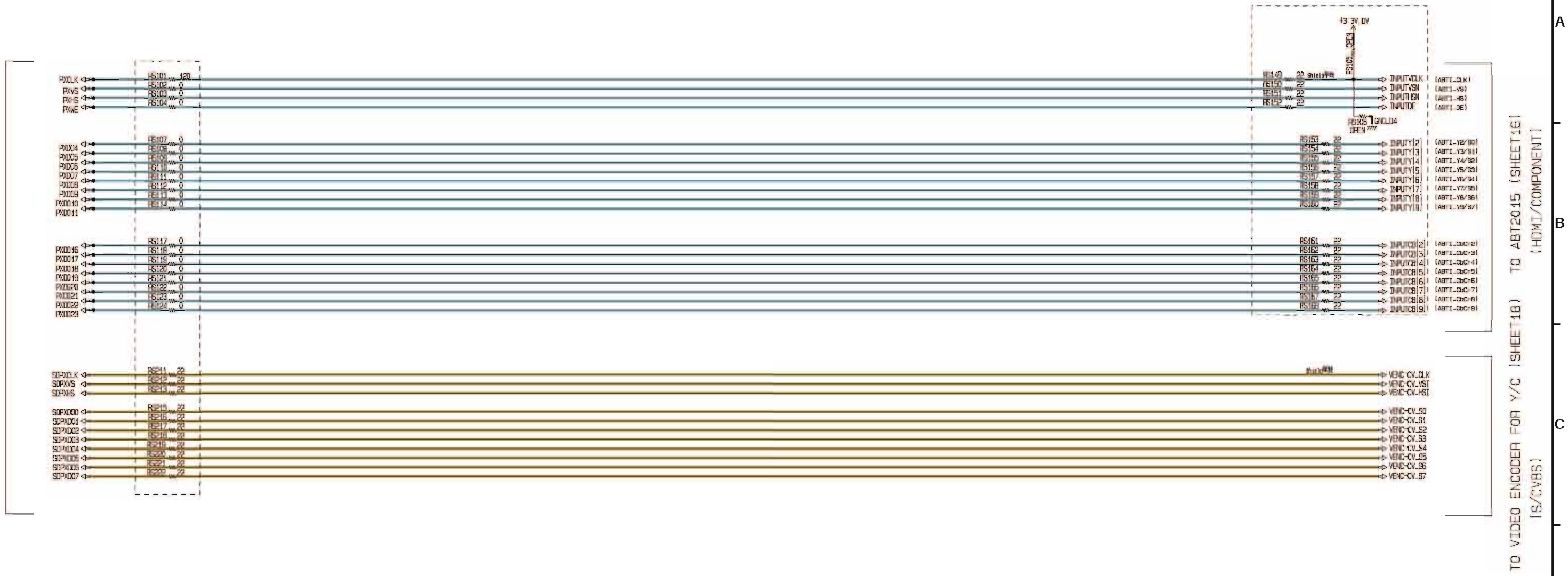
ABT2010 CORE
2A

SCHEMATIC DIAGRAMS (19/36)
8U-310041 MAIN UNIT (13/21)
VIDEO I/O POWER BLOCK

UD8004 MAIN VIDEO I/O POWER UNIT (13/21)

FILE NAME : bd310041.cir/013.sht

UD8004



UD8004 VIDEO DATA INTERFACE (14/21)

FILE NAME : bd310041.cir/014.sht

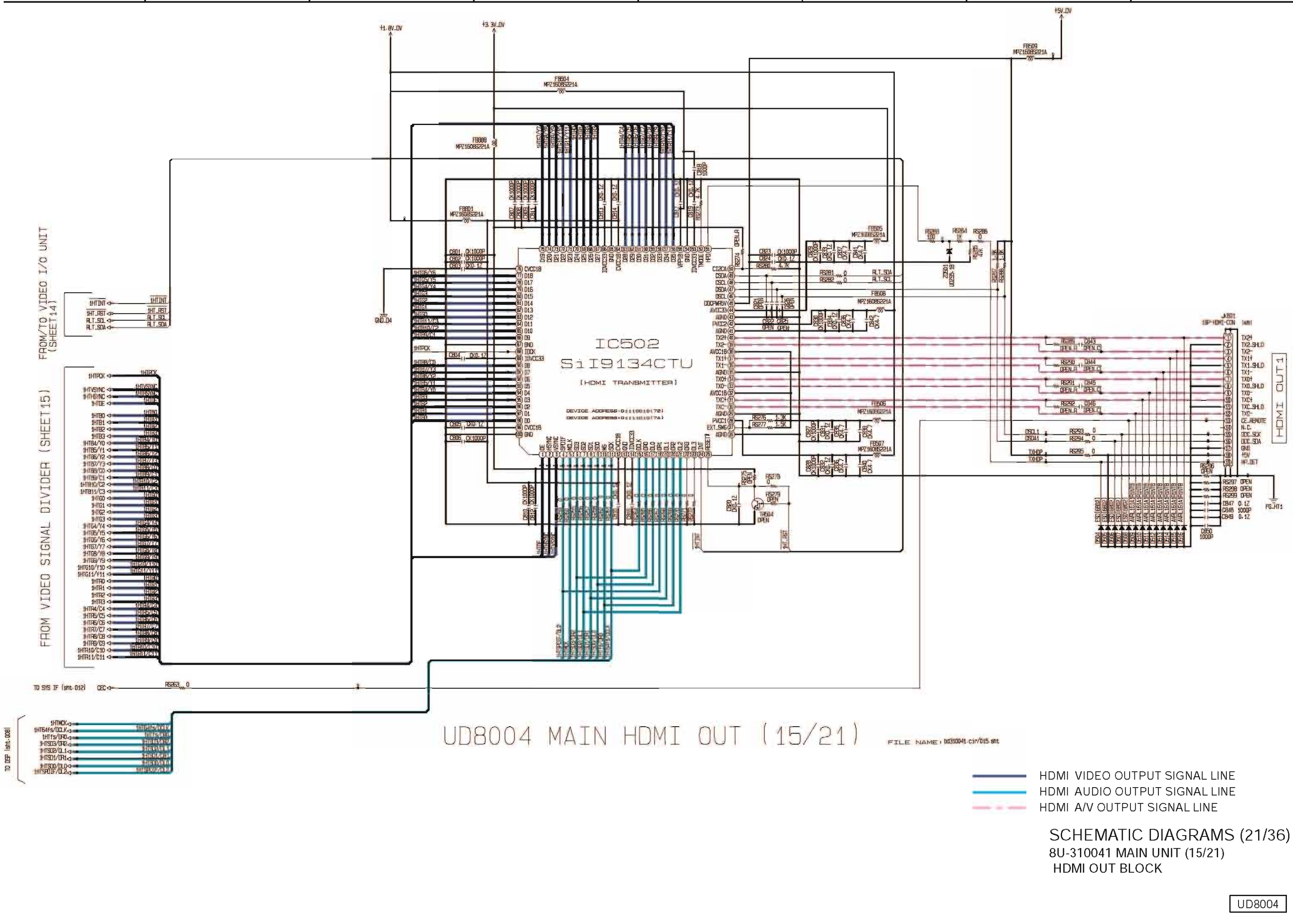
COMPONENT, HDMI VIDEO OUTPUT SIGNAL LINE

VIDEO, S-VIDEO OUT VIDEO OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (20/36)

8U-310041 MAIN UNIT (14/21)
VIDEO DATA INTERFACE BLOCK

UD8004



UD8004 MAIN HDMI OUT (15/21)

FILE NAME : bd310041-c1r/015.sht

SCHEMATIC DIAGRAMS (21/36)

8U-310041 MAIN UNIT (15/21)
HDMI OUT BLOCK

UD8004

FROM DATA DISTRIBUTOR (SHEET2)

TO VIDEO SIGNAL DIVIDER (SHEET10)

FROM/TO DDR2 (SHEET9)

FROM CLOCK GENERATOR (SHEET13)

IC951
ABT2015

Silk Screen
ABT_SPI
SPI_CLK
SPI_RX
SPI_TX
SPI_CSn
GND

Trace Length for DDR Loop Out to In
DDR CLK Length + DDR DQS Length.

UD8004 MAIN ABT2010 I/P & SCALER for HDMI/Component (16/21)

FILE NAME : bd310041-c1r/016.sht

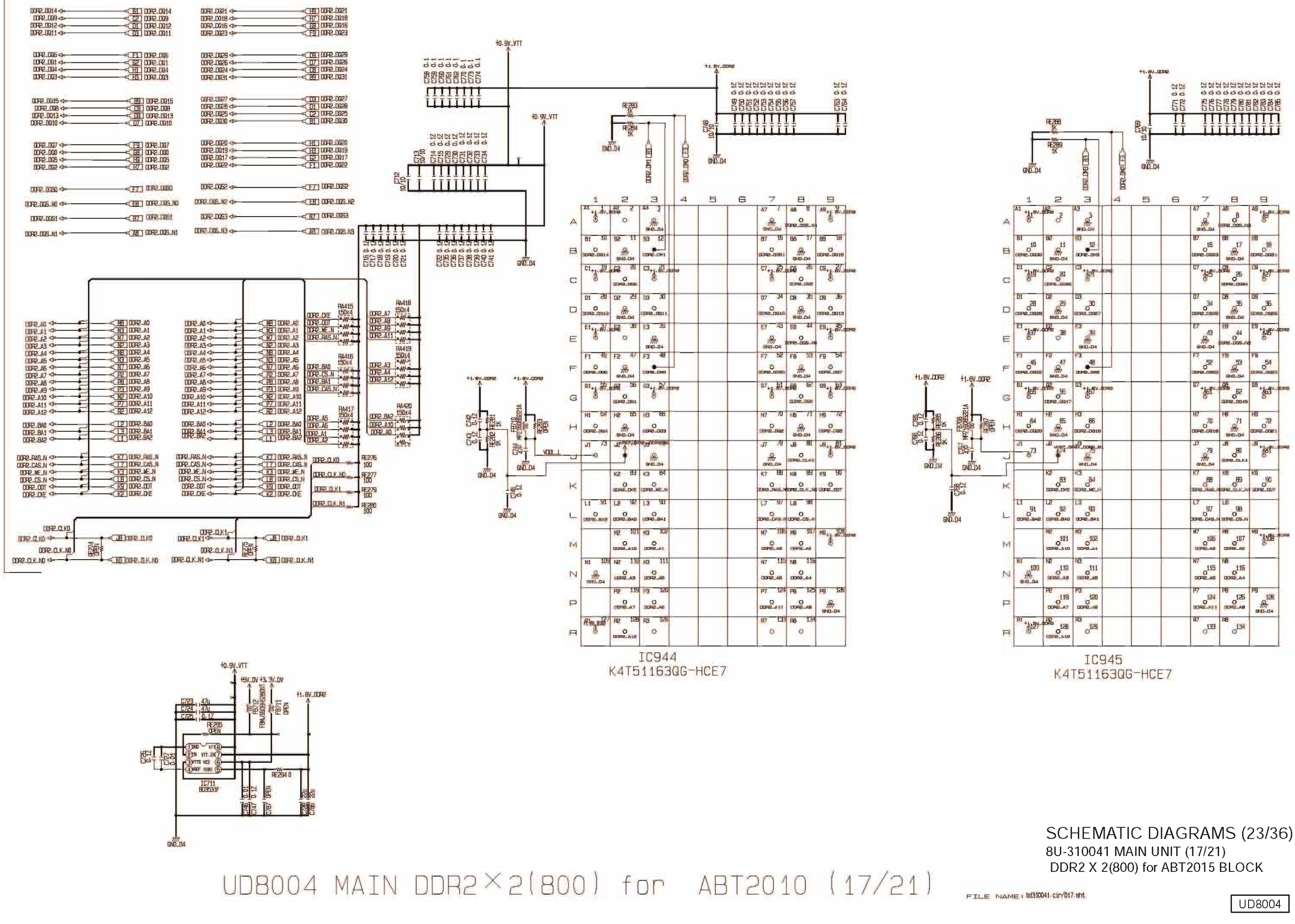
COMPONENT, HDMI VIDEO OUTPUT SIGNAL LINE (IC951 INPUT)
COMPONENT, HDMI VIDEO OUTPUT SIGNAL LINE (IC951 OUTPUT)

SCHEMATIC DIAGRAMS (22/36)

8U-310041 MAIN UNIT (16/21)
ABT 2015 I/P & SCALER
for HDMI/Component BLOCK

UD8004

FROM/TO ABT2010 (SHEET21)



UD8004 MAIN DDR2×2(800) for ABT2010 (17/21)

SCHEMATIC DIAGRAMS (23/36)
8U-310041 MAIN UNIT (17/21)
DDR2 X 2(800) for ABT2015 BLOCK

FILE NAME : bd310041-cir/017.sht

UD8004

FROM ABT2015 (SHEET17)

FROM/TO VIDEO DATA I/F UNIT (SHEET14)

TO ADV7340 for COMPONENT

TO ANALOG VIDEO UNIT

TO Si19134 (SHEET15)

IC751
EPM570F256C5N

UD8004 VIDEO SIGNAL DIVIDER (18/21)

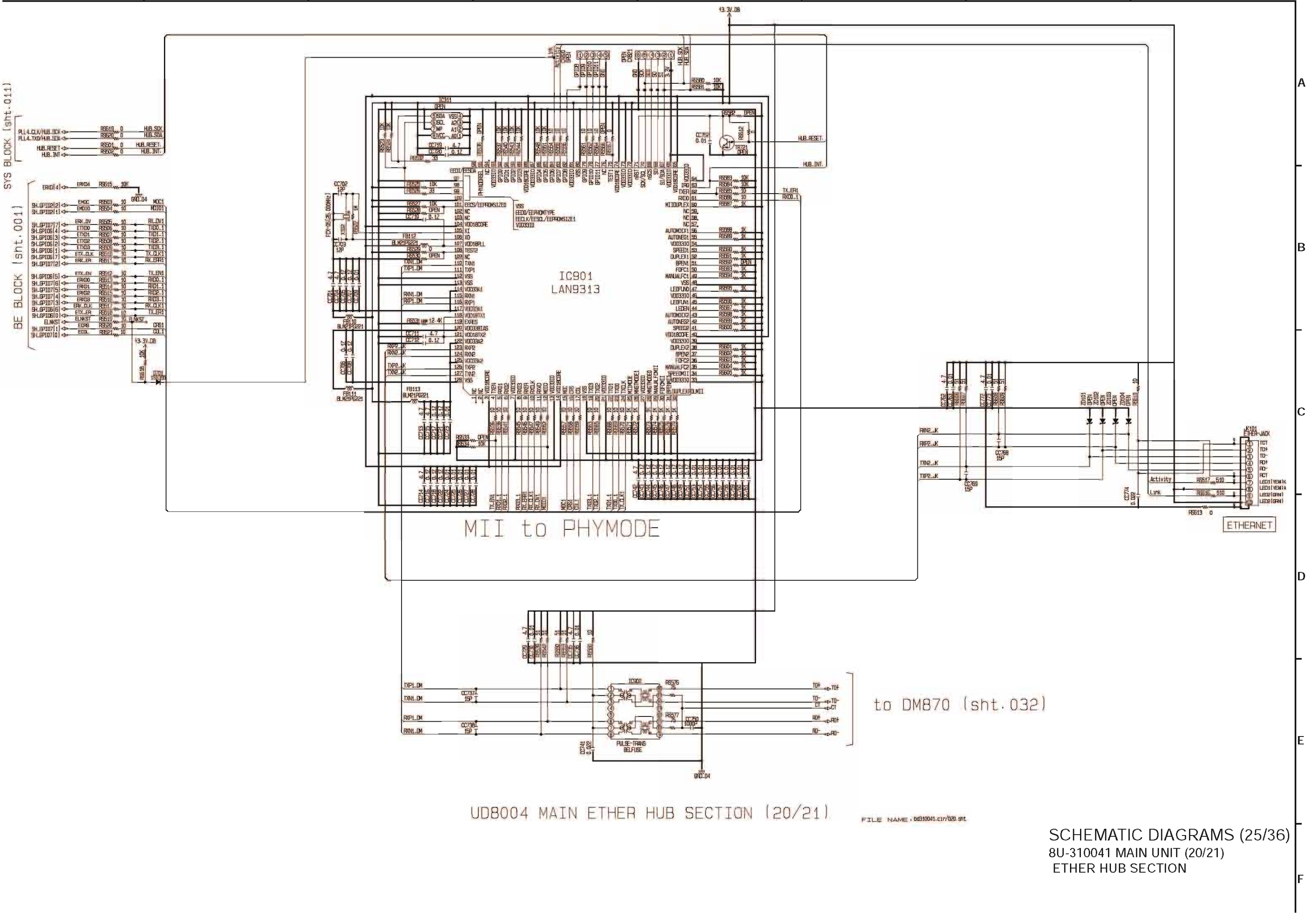
FILE NAME bd310041.cir/01B.sht

SCHEMATIC DIAGRAMS (24/36)

8U-310041 MAIN UNIT (18/21)
VIDEO SIGNAL DIVIDER BLOCK

HDMI VIDEO OUTPUT SIGNAL LINE
COMPONENT VIDEO OUTPUT SIGNAL LINE
COMPONENT, HDMI VIDEO OUTPUT SIGNAL LINE (IC951 OUTPUT)
VIDEO, S-VIDEO OUT VIDEO OUTPUT SIGNAL LINE

UD8004



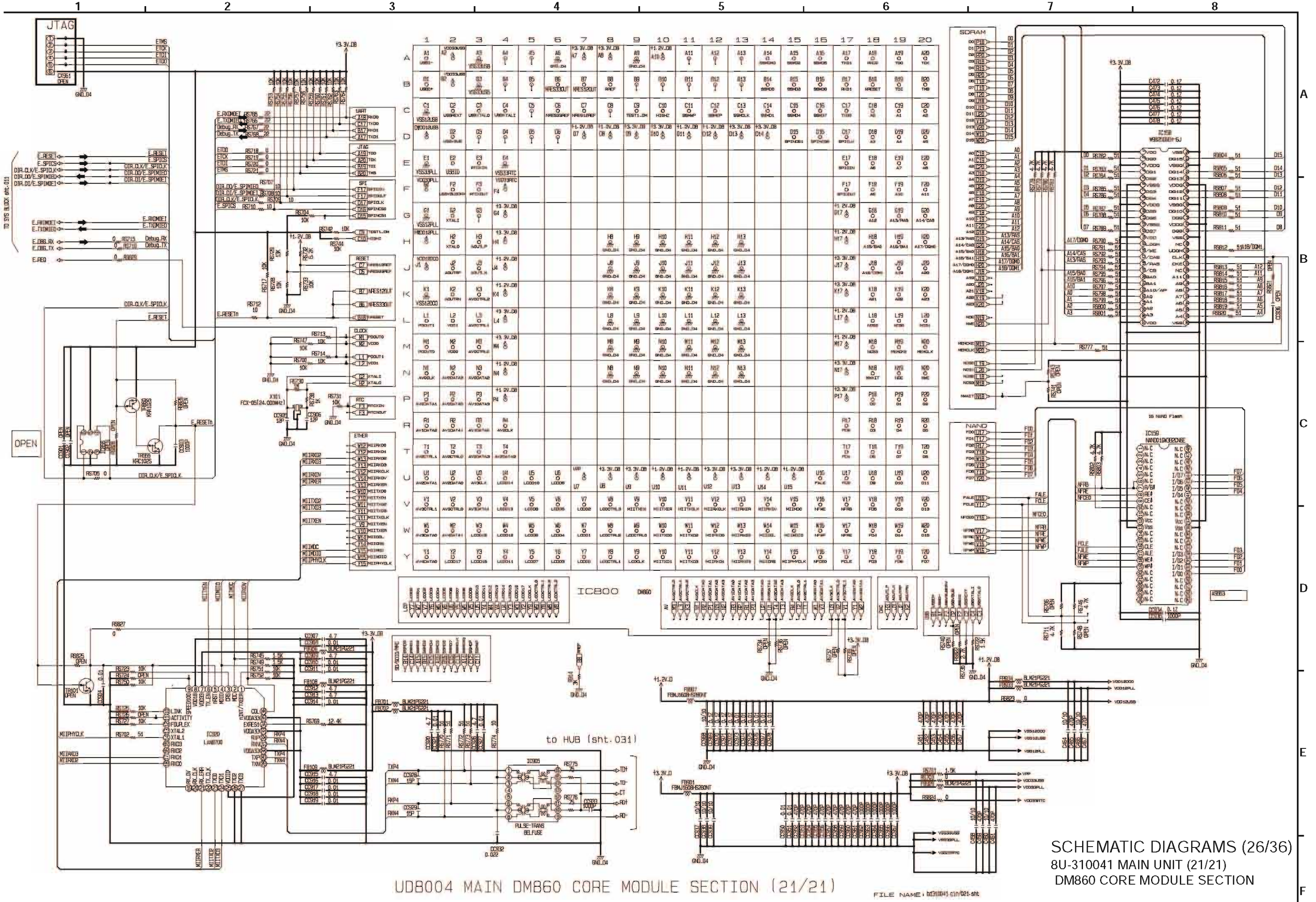
UD8004 MAIN ETHER HUB SECTION (20/21)

FILE NAME : bd310041.cir/020.sht

SCHEMATIC DIAGRAMS (25/36)

8U-310041 MAIN UNIT (20/21)

ETHER HUB SECTION



SCHEMATIC DIAGRAMS (26/36)

8U-310041 MAIN UNIT (21/21)

DM860 CORE MODULE SECTION

UD8004 MAIN DM860 CORE MODULE SECTION (21/21)

FILE NAME : bd310041.c1n/021.sht

UD8004

R201 OPEN	F
R202 0	U
R203 OPEN	N/S/K/R

	U1B	FB	N1B,K1B,S1B,R1B
	value	value	value
C124	2200P/250V	OPEN	OPEN
C131	330/200	330/200	120/400
C132	1000P/2KV	1000P/2KV	470P/2KV
L101	HR28R-E183	HR28R-E183	HR28R-E333
IC102	STR-Y6453	STR-Y6453	STR-Y6473
R106	0.33	0.33	0.47
R201	OPEN	0	OPEN
R202	0	OPEN	OPEN
R208	OPEN	OPEN	0
T101	SW-TRANS(E3U_ST4282)	SW-TRANS(E3J_ST4282)	SW-TRANS(E2U_ST4283)
T102	POWER-TRANS(MINI/E3)	POWER-TRANS(MINI/J)	POWER-TRANS(MINI/E2)
TR104	DTC114E	DTC114E	OPEN
ZD101	MTZJ15B	MTZJ16B	OPEN

LED SW

A. AUDIO

F/E

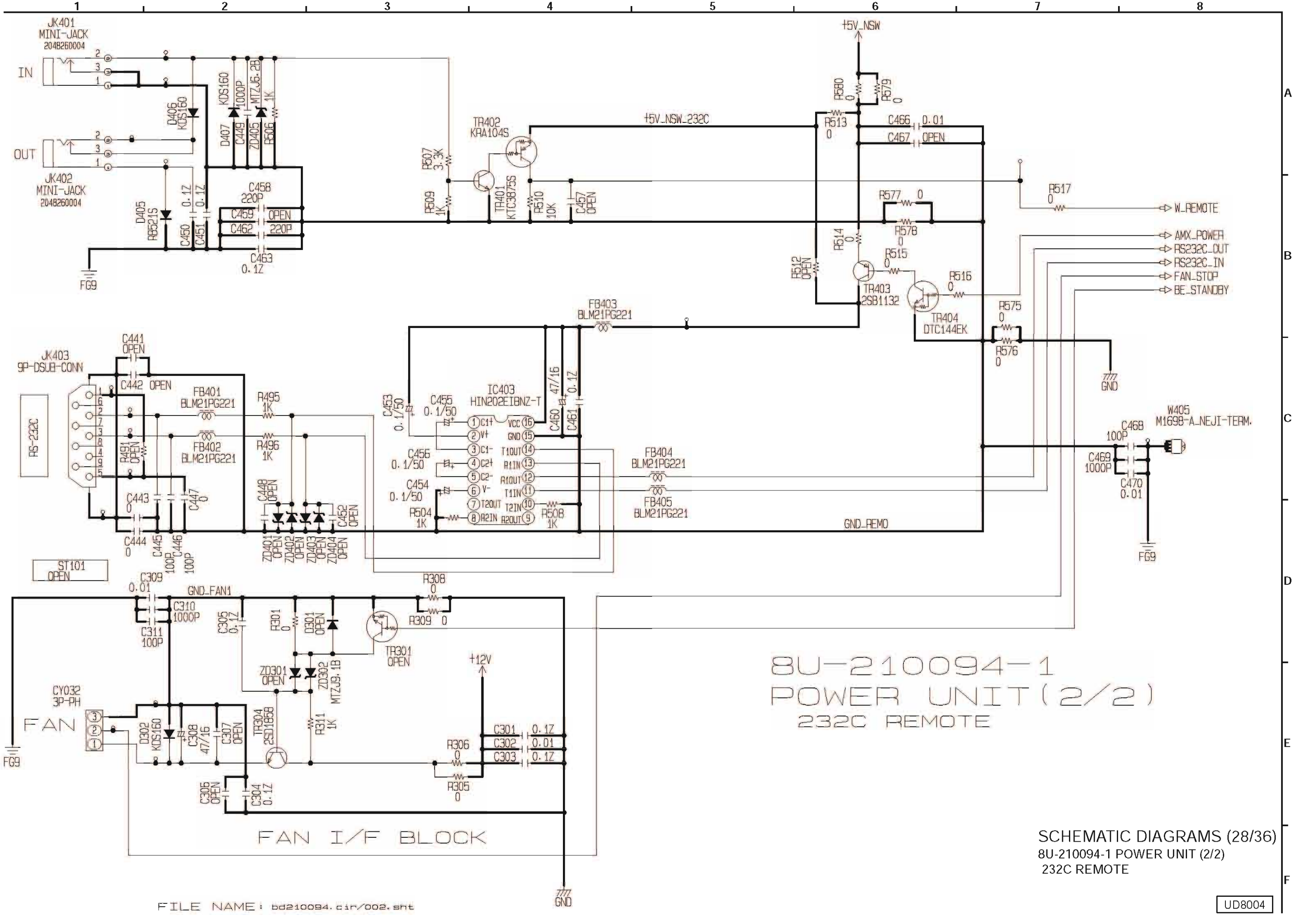
MAIN

8U-210094-1
POWER UNIT (1/2)

FILE NAME : bd210094.cir/001.sht

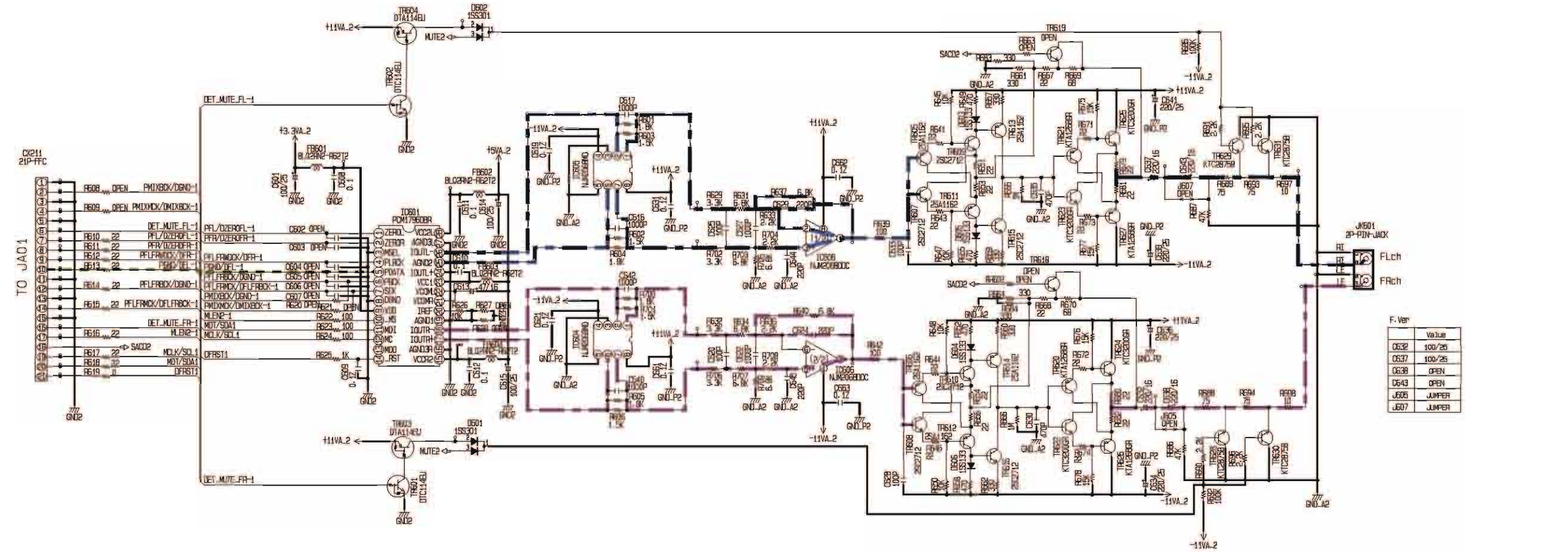
SCHEMATIC DIAGRAMS (27/36)
8U-210094-1 POWER UNIT (1/2)

UD8004



SCHEMATIC DIAGRAMS (28/36)
8U-210094-1 POWER UNIT (2/2)
232C REMOTE

UD8004



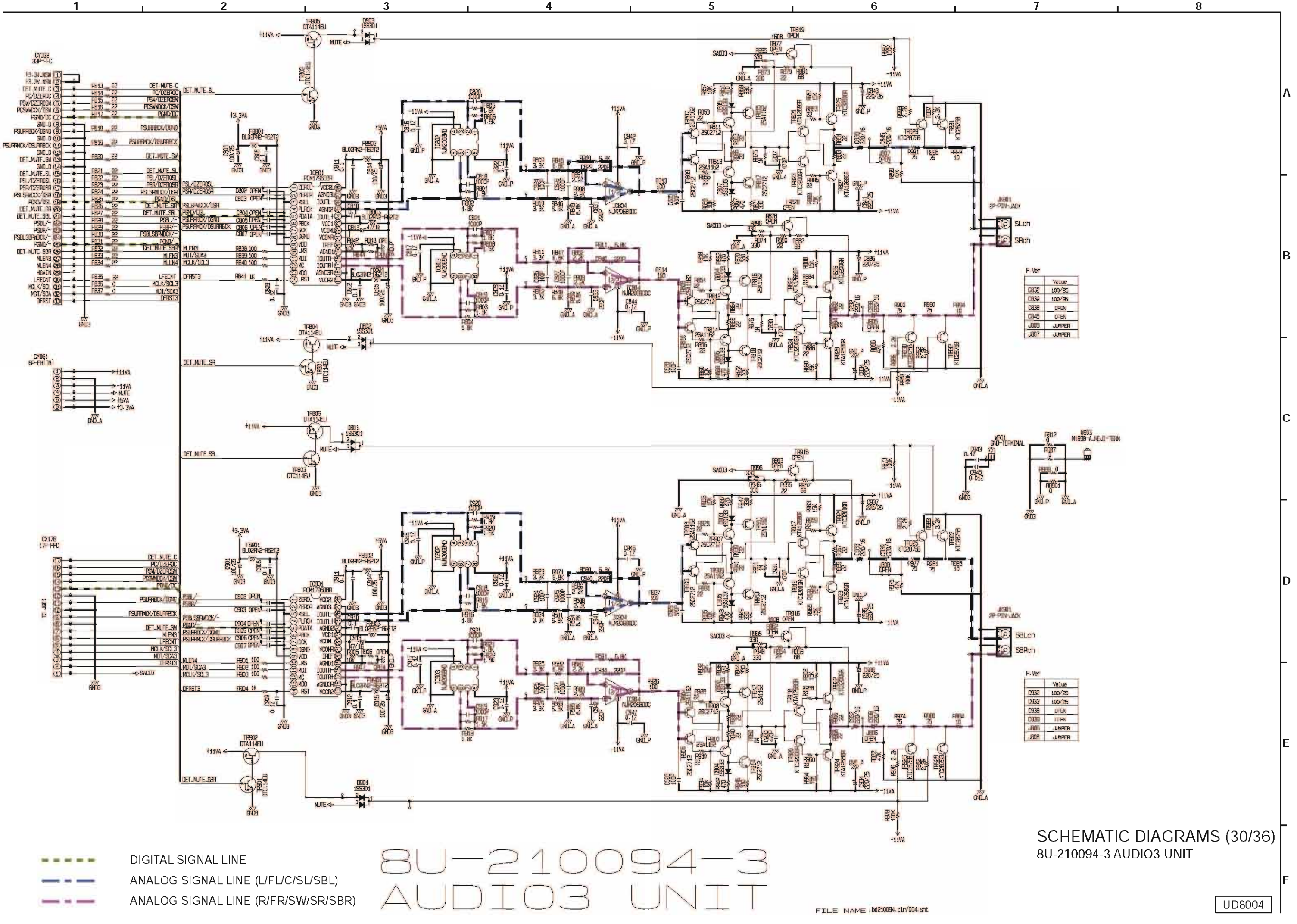
8U-210094-2
AUDIO2 UNIT

SCHEMATIC DIAGRAMS (29/36)

8U-210094-2 AUDIO2 UNIT

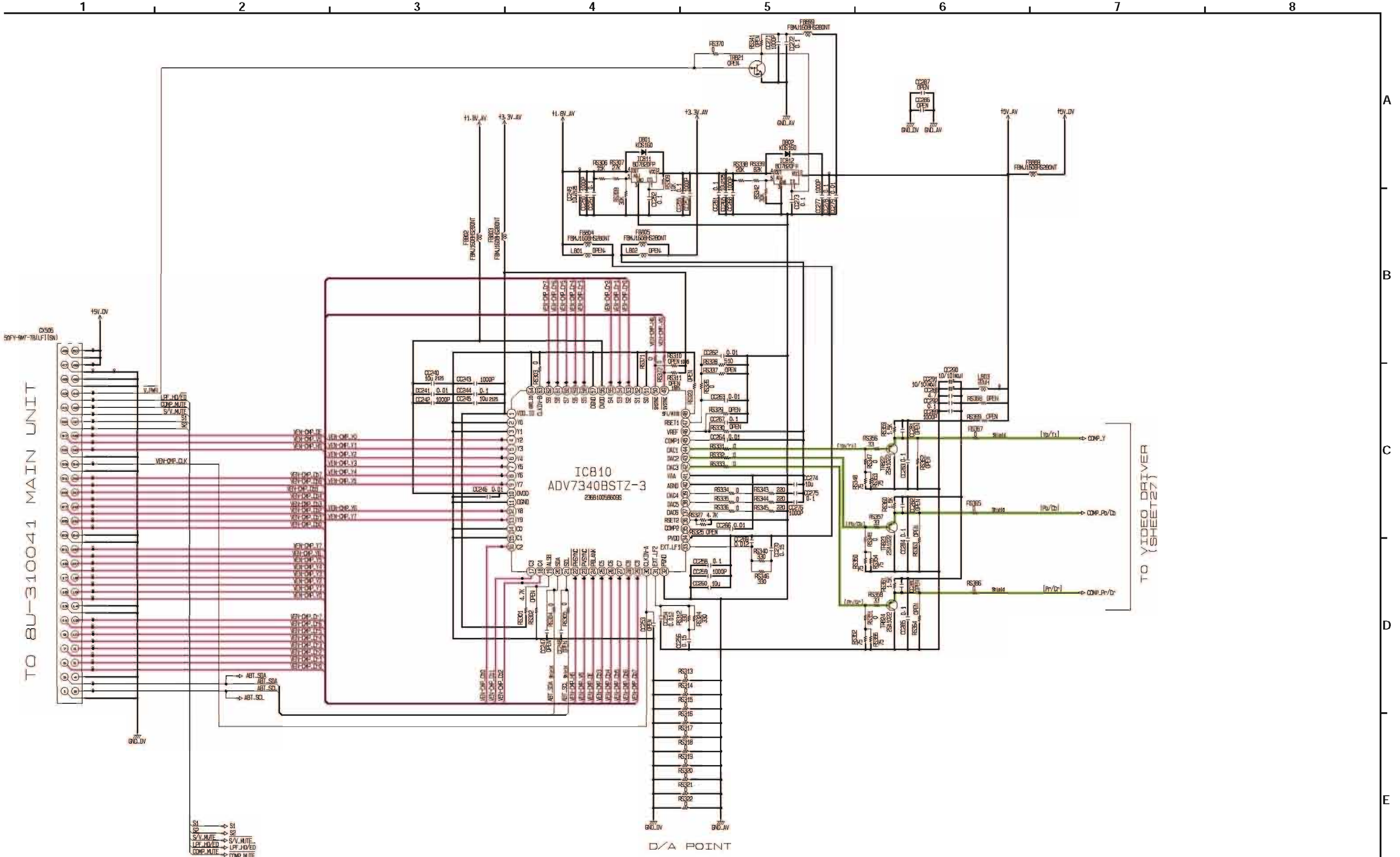
FILE NAME : bd210094.cir/003.sht

UD8004



SCHEMATIC DIAGRAMS (30/36)

8U-210094-3 AUDIO3 UNIT



COMPONENT VIDEO OUTPUT SIGNAL LINE (IC810 INPUT)

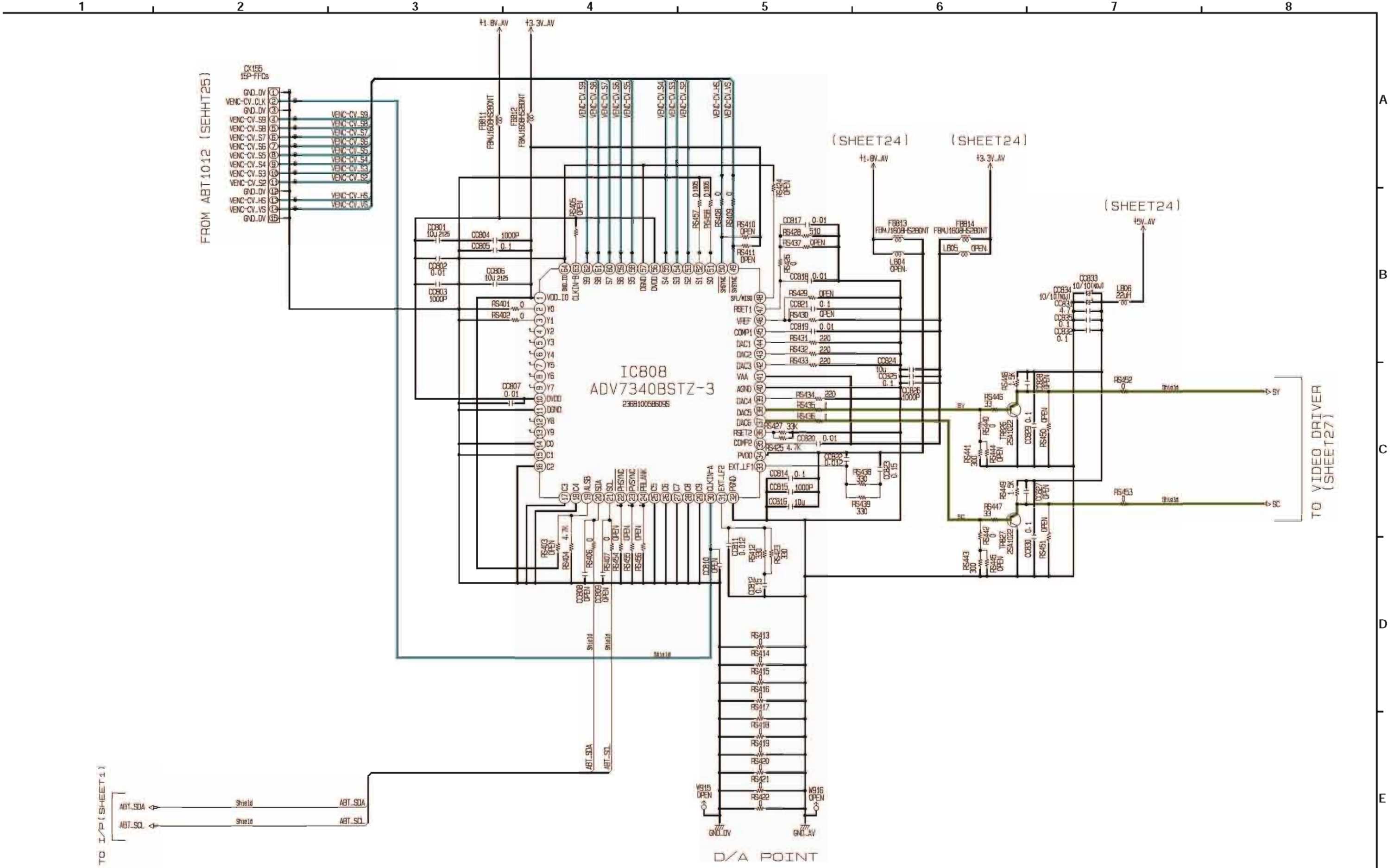
COMPONENT VIDEO OUTPUT SIGNAL LINE (IC801 OUTPUT)

8U-210095-1 (1/3)
VIDEO ENCODER for COMPONENT

FILE NAME : bd210095-cir/001.sht

SCHEMATIC DIAGRAMS (31/36)
8U-210095-1 ANALOG VIDEO UNIT (1/3)
VIDEO ENCODER for COMPONENT

UD8004



VIDEO OUT, S-VIDEO OUT VIDEO OUTPUT SIGNAL LINE (IC808 INPUT)

VIDEO OUT, S-VIDEO OUT VIDEO OUTPUT SIGNAL LINE (IC808 OUTPUT)

8U-210095-1(2/3)

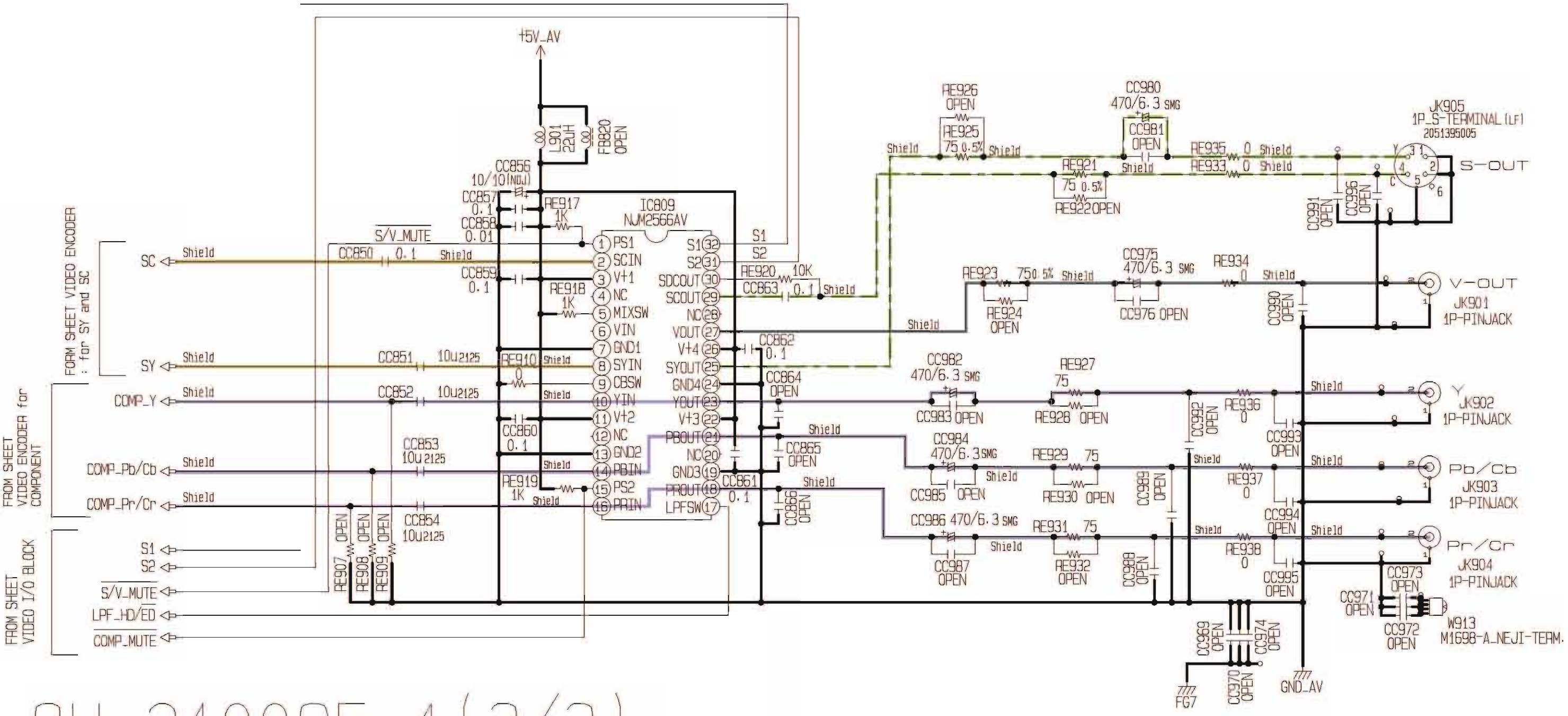
VIDEO ENCODER for Y/C CVBS

SCHEMATIC DIAGRAMS (32/36)

8U-210095-1 ANALOG VIDEO UNIT (2/3)
VIDEO ENCODER for Y/C CVBS

FILE NAME : bd210095.cir/002.sht

UD8004



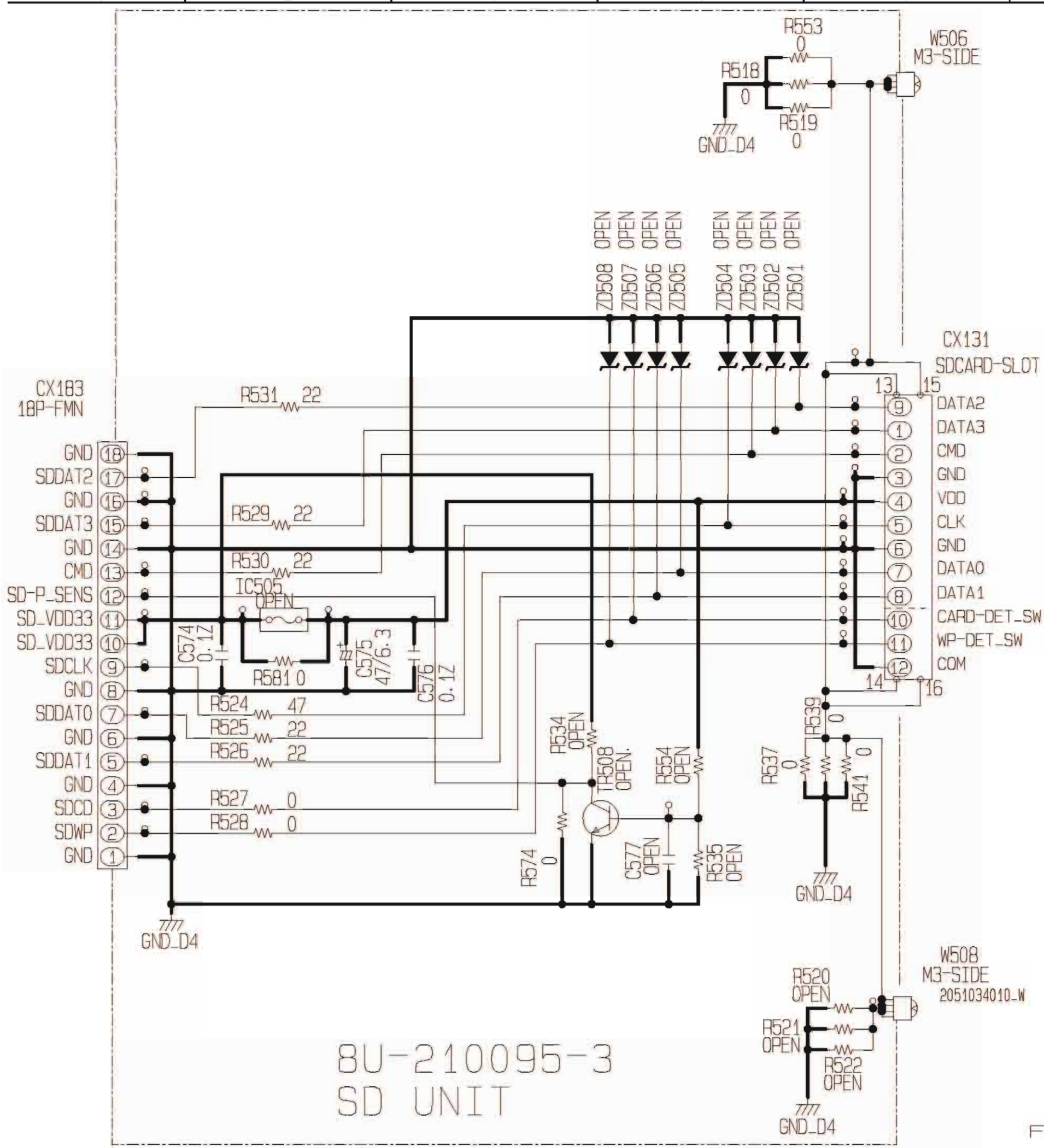
8U-210095-1(3/3)
ANALOG VIDEO UNIT

FILE NAME: bd210095.cir/003.sht

COMPONENT VIDEO OUTPUT SIGNAL LINE
VIDEO OUT, S-VIDEO OUT VIDEO OUTPUT SIGNAL LINE
S-VIDEO OUT VIDEO OUTPUT SIGNAL LINE
VIDEO OUT VIDEO OUTPUT SIGNAL LINE

SCHEMATIC DIAGRAMS (33/36)
8U-210095-1 ANALOG VIDEO UNIT (3/3)

UD8004

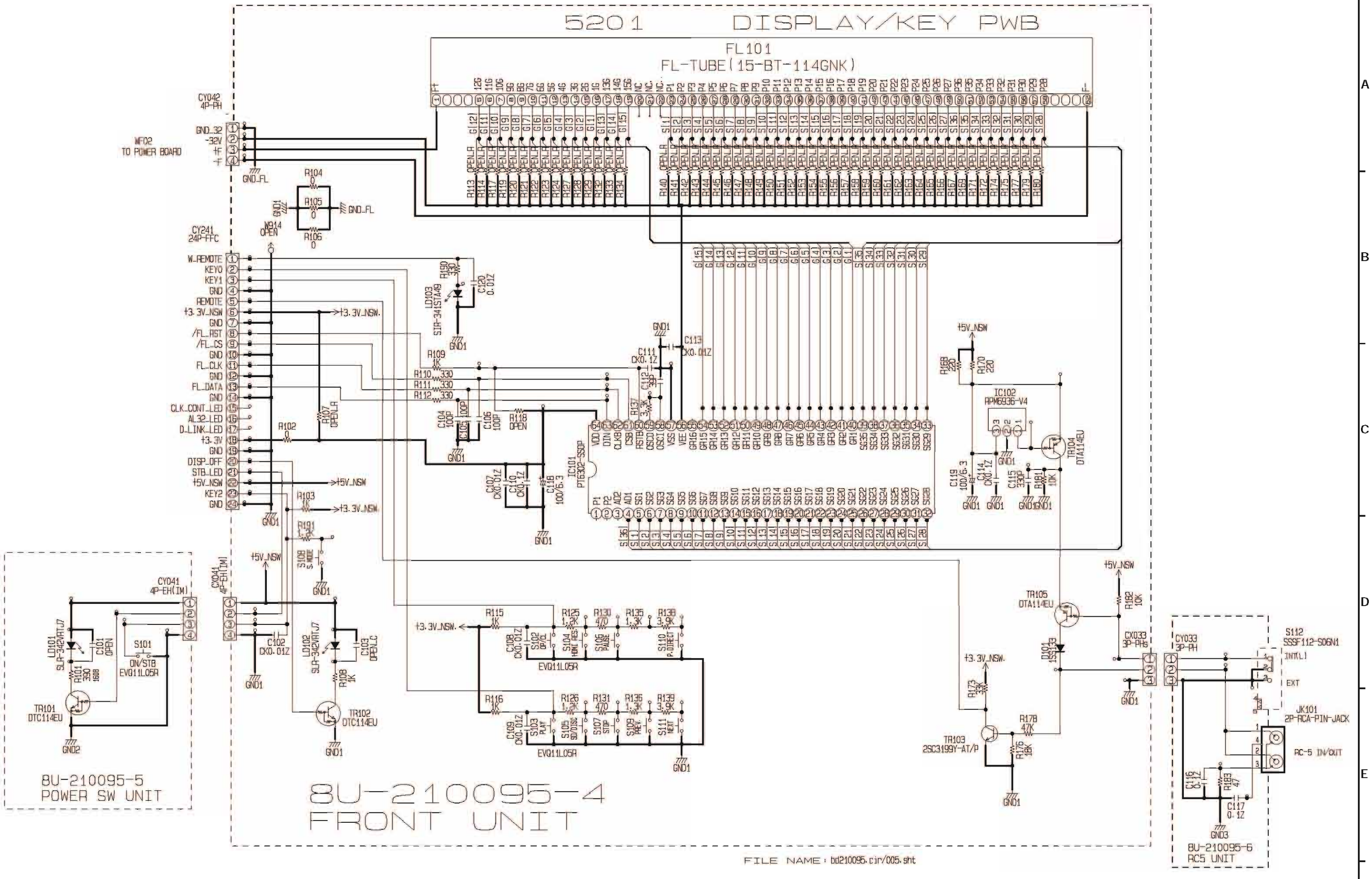


SCHEMATIC DIAGRAMS (34/36)

8U-210095-3 SD UNIT

FILE NAME : bd210095.cir/004.sht

UD8004



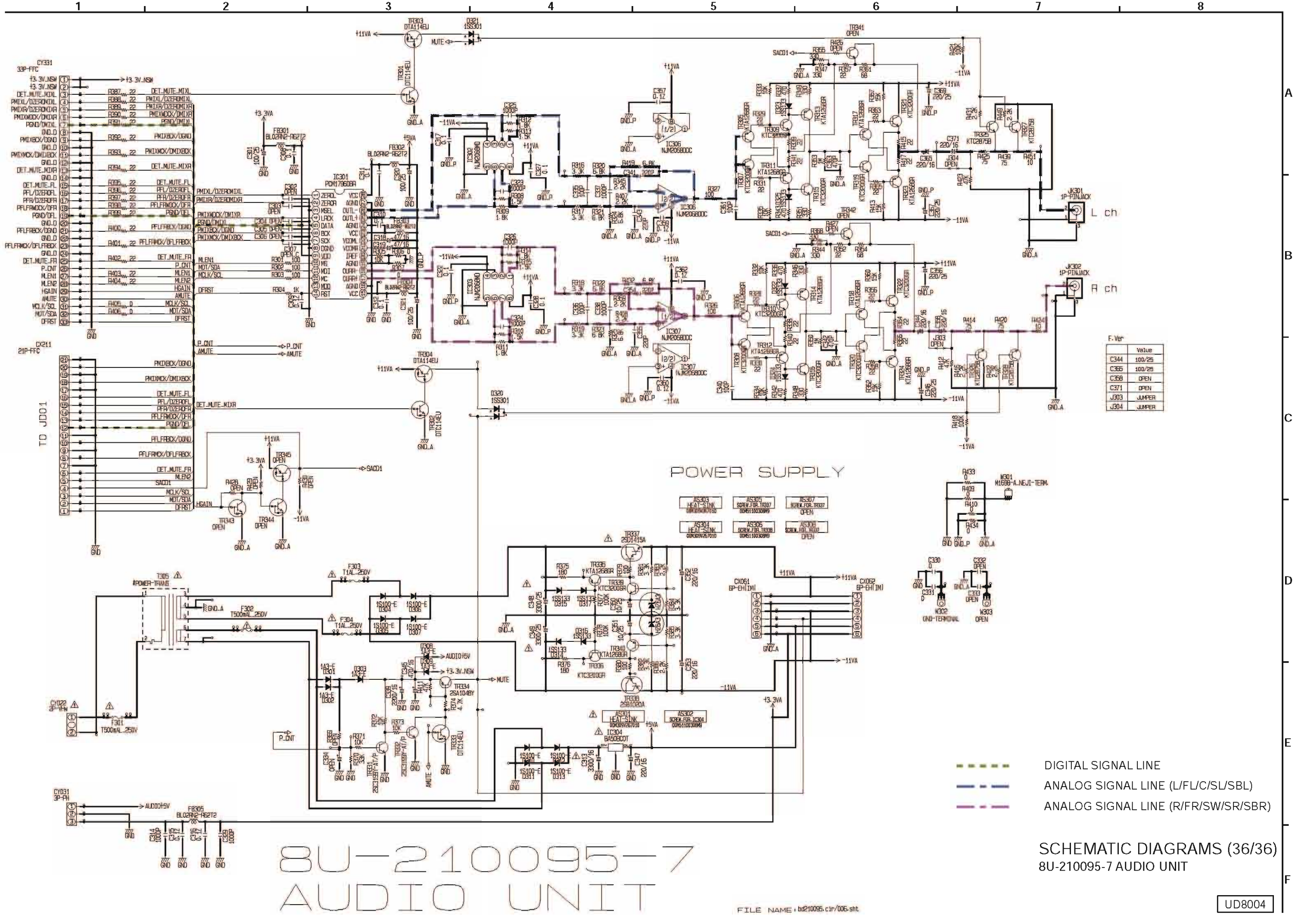
SCHEMATIC DIAGRAMS (35/36)

8U-210095-4 FRONT UNIT

8U-210095-5 POWER SW UNIT

8U-210095-6 RC5 UNIT

UD8004



F.Ver	
	Value
C344	100/25
C365	100/25
C368	OPEN
C371	OPEN
J303	JUMPER
J304	JUMPER

DIGITAL SIGNAL LINE

ANALOG SIGNAL LINE (L/FL/C/SL/SBL)

ANALOG SIGNAL LINE (R/FR/SW/SR/SBR)

SCHEMATIC DIAGRAMS (36/36)

8U-210095-7 AUDIO UNIT

UD8004