

ALPINE

SERVICE MANUAL

Mobile Media Station



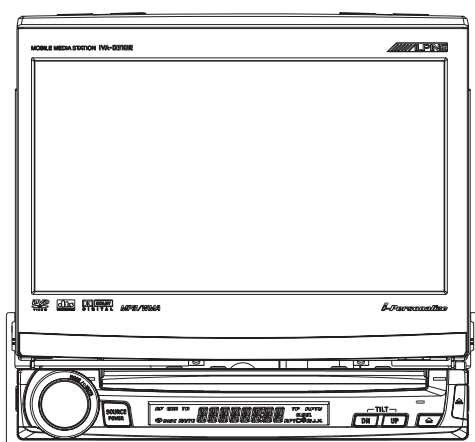
MP3 **MLX**



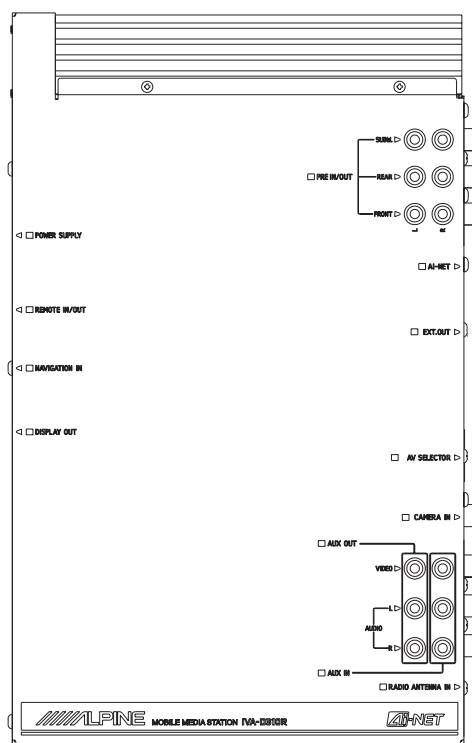
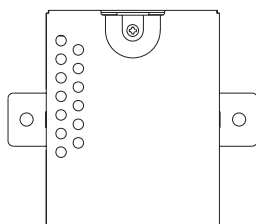
* The model is component system unit of Monitor Unit, Tuner Unit and DC/DC Converter Unit.

Caution : The part marked with  is generating a high voltage, so care will be necessary when working.

* DVD region number (playable region number) : Region Number 2 or ALL



(IVA-D310R)



(IVA-D310R)

4 / 05-A
68E38528S01

IVA-D310R/IVA-D310RB

<Cautions for Safe Repair Work>

The following cautions will prevent accidents in the workplace and will ensure safe products.

*The symbols indicate caution is needed to prevent injuries and damage to property.

The symbols and their meanings follow.

 Warning	If you ignore this symbol and handle the product incorrectly or unsafely, serious injury or death may result.
 Caution	If you ignore this symbol and handle the product incorrectly or unsafely, injury or only material damage may result.

*The following symbols indicate two levels of cautions.

 When you see this symbol, you have to be very careful.	
 When you see this symbol, you have to follow the instructions there.	

Warning

 Do not look squarely into the laser light coming from the pickup. You may lose your sight.	 Fuse Caution Always use a designated fuse. Use of an incorrect fuse may result in a fire.
--	--

Caution

 Do not allow wiring to be caught in the screw/chassis. If wiring is caught in the screw/chassis, it may cause a short circuit, resulting in a fire.	 Battery Caution Use the designated battery. Confirm the correct polarity and seat of the battery. An incorrect battery or an improperly connected or seated battery may result in a fire.
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 High Temperature Caution Touching the heat sink may cause severe burns.	 Designated Parts Caution Look up the part list and ensure that only designated parts are used to prevent problems or accidents.
---	---

 Reverse Power Supply Connections or Misconnections Caution Reverse power supply connections or misconnections may cause ignition problems and smoke may result.	 Wiring Caution Ensure that the wiring is correct when rewiring to prevent problems with ignition/breakdown.
---	---

 Soldering Caution Hot solder from solder splash may cause severe burns.	 Wear Gloves Wear gloves to prevent electrical shocks or injury from the end face of the metal.
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 For the FDA laser standard, the following CAUTION label is stuck on each product. Please be careful for repair.	CAUTION-Laser radiation when open, DO NOT STARE INTO BEAM
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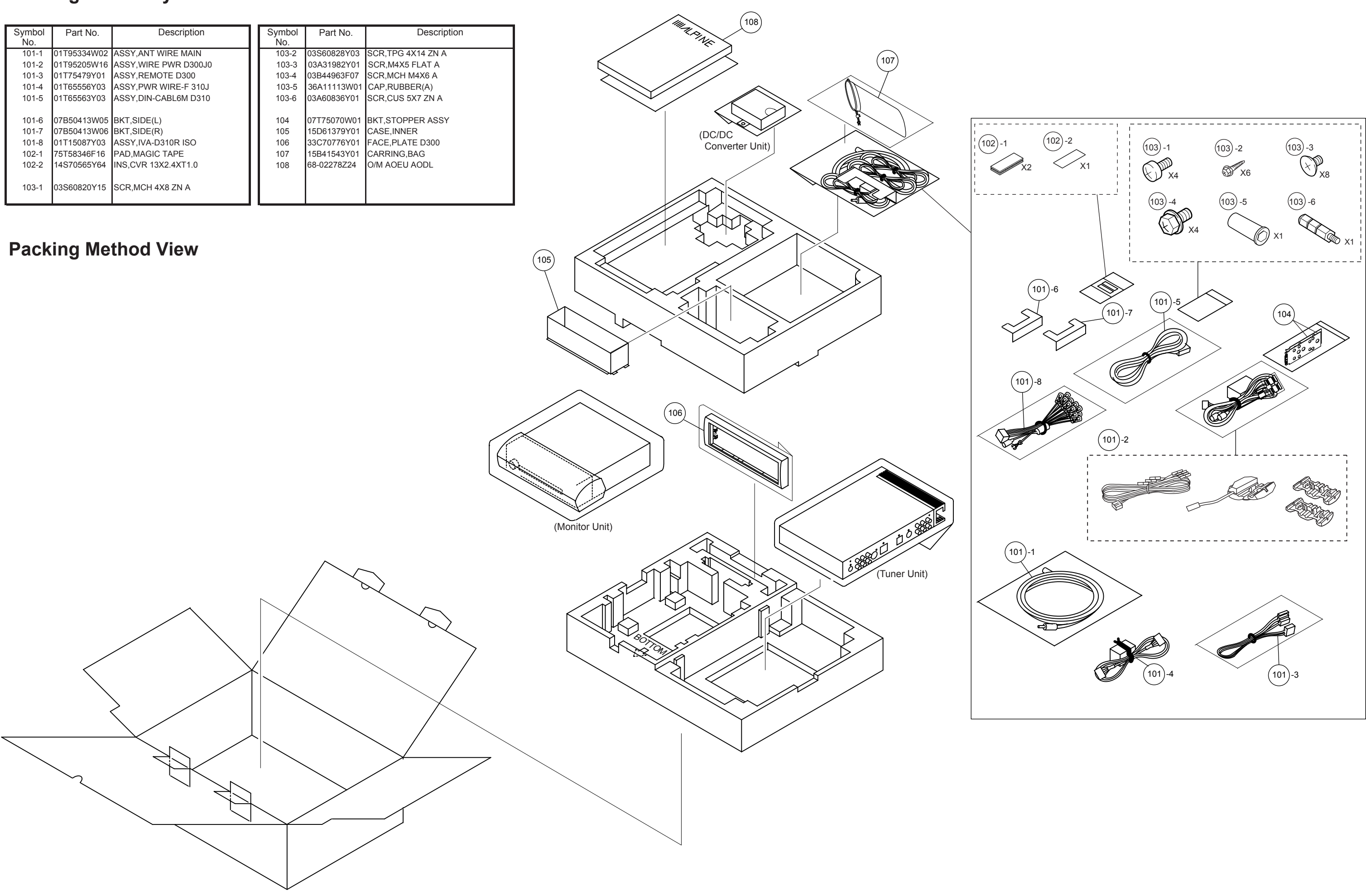
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NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

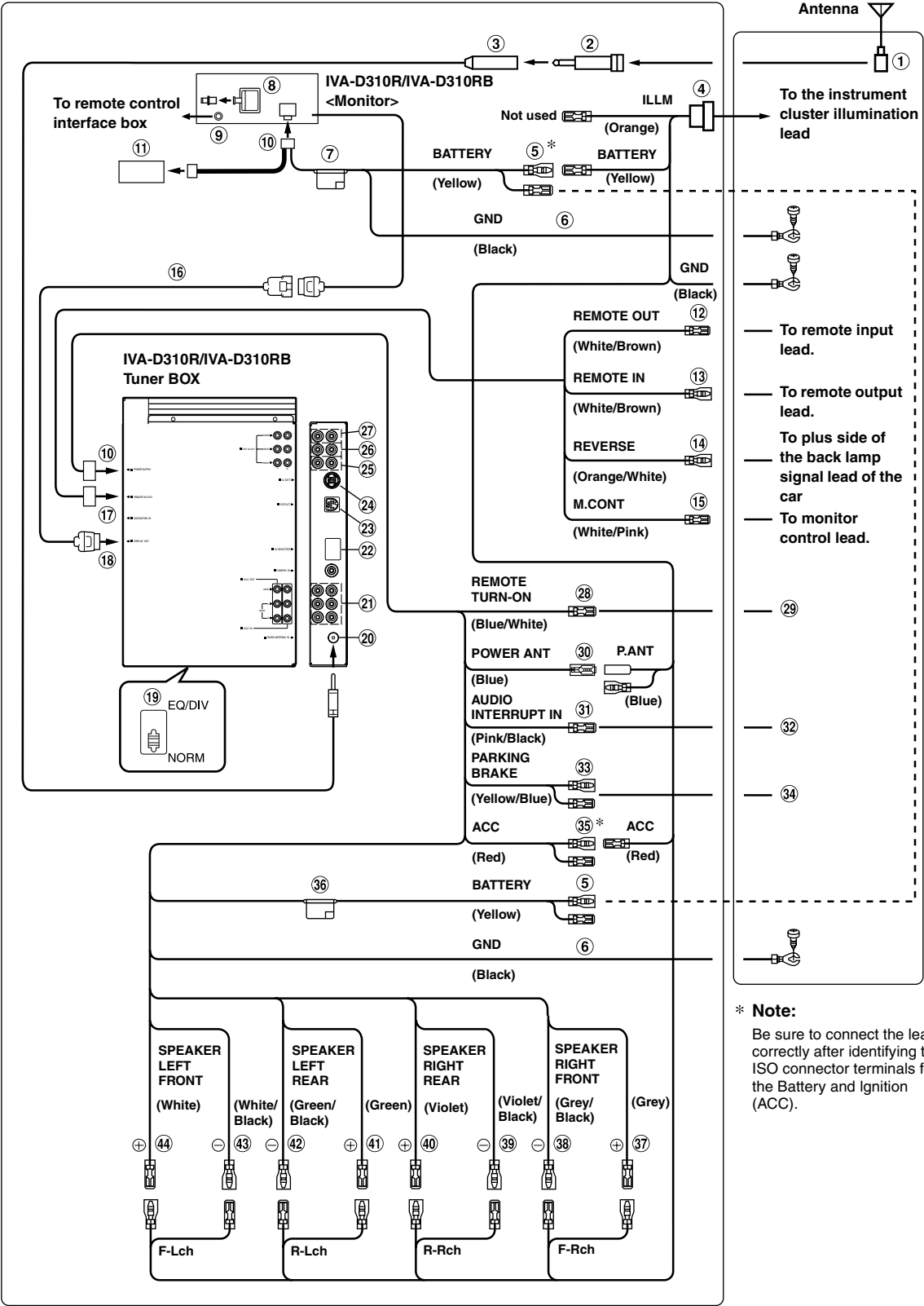
Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101-1	01T95334W02	ASSY,ANT WIRE MAIN	103-2	03S60828Y03	SCR,TPG 4X14 ZN A
101-2	01T95205W16	ASSY,WIRE PWR D300J0	103-3	03A31982Y01	SCR,M4X5 FLAT A
101-3	01T75479Y01	ASSY,REMOTE D300	103-4	03B44963F07	SCR,MCH M4X6 A
101-4	01T65556Y03	ASSY,PWR WIRE-F 310J	103-5	36A11113W01	CAP,RUBBER(A)
101-5	01T65563Y03	ASSY,DIN-CABL6M D310	103-6	03A60836Y01	SCR,CUS 5X7 ZN A
101-6	07B50413W05	BKT,SIDE(L)	104	07T75070W01	BKT,STOPPER ASSY
101-7	07B50413W06	BKT,SIDE(R)	105	15D61379Y01	CASE,INNER
101-8	01T15087Y03	ASSY,IVA-D310R ISO	106	33C70776Y01	FACE,PLATE D300
102-1	75T58346F16	PAD,MAGIC TAPE	107	15B41543Y01	CARRING,BAG
102-2	14S70565Y64	INS,CVR 13X2.4XT1.0	108	68-02278Z24	O/M AOEU AODL
103-1	03S60820Y15	SCR,MCH 4X8 ZN A			

Packing Method View



System Connections

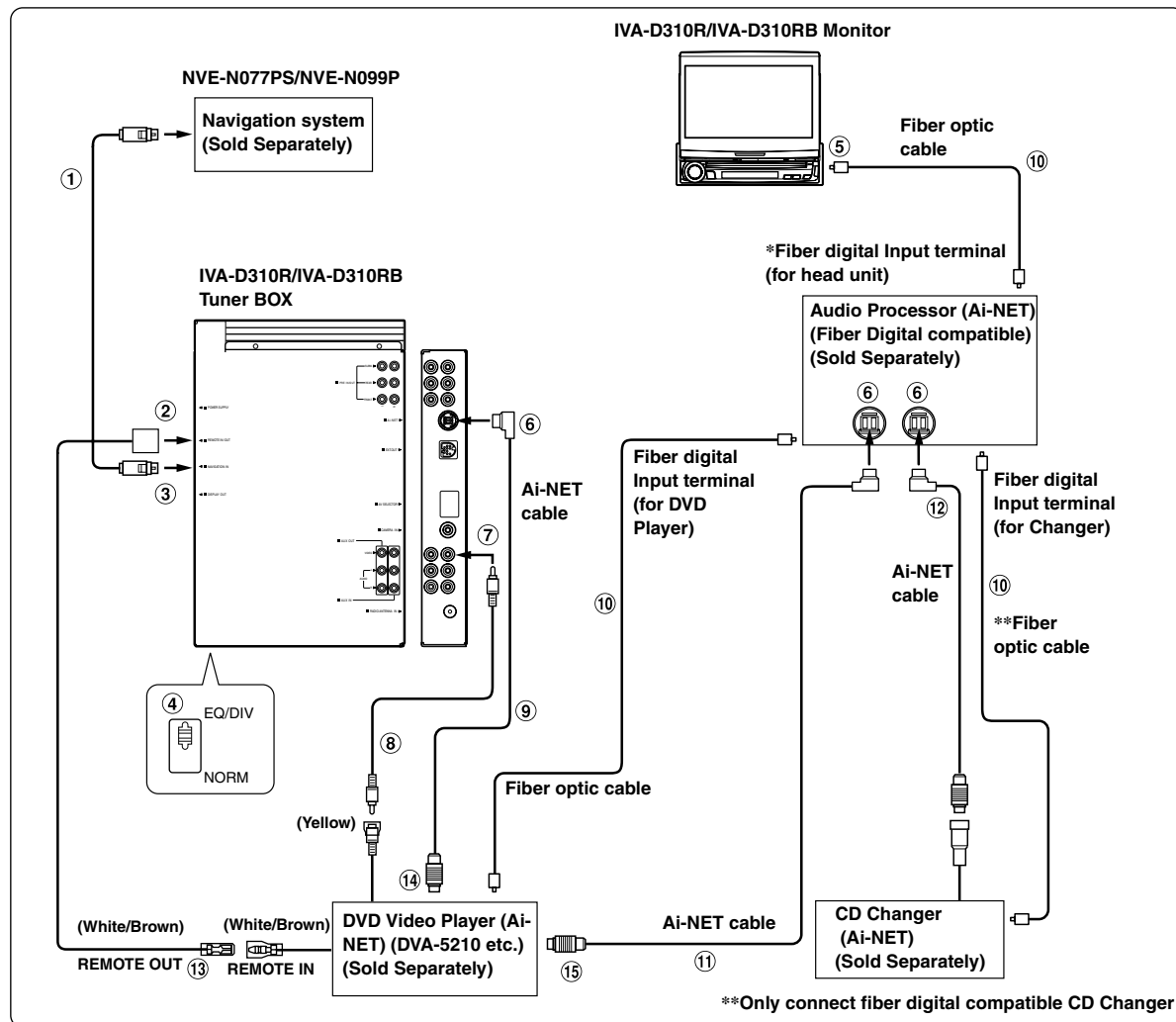


• Set the system switch to "NORM" when only a changer is connected (when the Ai-NET compatible equalizer is not used).

- ① **ISO Antenna Plug**
- ② **ISO Antenna Converter Plug (sold separately)**
- ③ **Antenna Extension Cable (Included)**
- ④ **ISO Connector (Included)**
- ⑤ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.
- ⑥ **Ground Lead (Black)**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.
- ⑦ **Fuse Holder (10A)**
- ⑧ **Digital Output Terminal (Optical)**
Use when combining fiber digital input compatible products.
- ⑨ **Remote Control Interface Connector**
Connect to the remote control interface box.
- ⑩ **Power Supply Connector**
- ⑪ **DC/DC Converter**
 - *Do not install the converter at a location subjected to water such as under the floor mat or air conditioner. This may cause a malfunction.*
 - *Do not bundle the DC/DC converter cable with other audio cables. Also, do not install the cables directly next to the unit. Doing so may induce noise into your system.*
 - *Keep the DC/DC converter away from the Antenna cables and the rear side of the unit, otherwise noise may be generated when receiving radio broadcast.*
- ⑫ **Remote Control Output Lead (White/Brown)**
Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.
- ⑬ **Remote Control Input Lead (White/Brown)**
Connect the external Alpine product to the remote control output lead.
- ⑭ **Reverse Lead (Orange/White)**
Use only when a back-up camera is connected. Connect to the plus side of the car's reverse lamp that lights when the transmission is shifted into reverse (R). Switches the video picture to the back-up camera. This is linked with putting the car into reverse (R).
- ⑮ **Monitor Control Lead (White/Pink)**
Connect this to the Monitor Control Lead of the touch panel-compatible rear monitor.
- ⑯ **Monitor Extension Cable (Included)**
- ⑰ **Remote IN/OUT Terminal**
- ⑱ **Display Output Terminal**
- ⑲ **System Switch**
When connecting an equalizer or divider using Ai-NET feature, place this switch in the EQ/DIV position. When no device is connected, leave the switch in the NORM position.
 - *Be sure to turn the power off to the unit before changing the switch position.*
- ⑳ **Antenna Receptacle**
- ㉑ **AUX Input Terminals/AUX Output Terminals**
If these terminals are connected to the optional expansion box (VPE-S431), the AUX input and output terminals are not used on this unit. Connect AUX IN 1, 2 and 3, and the AUX OUT 1 and 2 terminals of the extension box (VPE-S431) to the external device(s).
- ㉒ **AV Select Connector**
When this connector is connected to the optional expansion box (VPE-S431), connect this to the HEAD UNIT terminal of VPE-S431.
- ㉓ **Ext. Output Connector**
If this connector is connected to the optional Amplifier Link compatible monaural Amplifier, connect this to the optional Amplifier Link Box, and output the Amplifier Link control signal.
- ㉔ **Ai-NET Connector**
Connect this to the output or input connector of other product (CD changer, Equalizer, iPod adapter*, etc.) equipped with Ai-NET.
 - * *If you connect to iPod, you need the optional adapter (KCA-420i). For details on connection, refer to the Owner's Manual of the KCA-420i.*
- ㉕ **Front input/output Terminal**
Use when connecting an amplifier or equalizer.
- ㉖ **Rear input/output Terminal**
Use when connecting an amplifier or equalizer.
- ㉗ **Subwoofer output Terminal**
Connect the input lead of an amplifier for the subwoofer to this terminal.
- ㉘ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.
- ㉙ **To amplifier or equalizer**
- ㉚ **Power Antenna Lead (Blue)**
Connect this lead to the +B terminal of your power antenna, if applicable.
- ㉛ **Audio Interrupt In Lead (Pink/Black)**
- ㉜ **To vehicle phone**
- ㉝ **Parking Brake Lead (Yellow/Blue)**
Connect this lead to the power supply side of the parking brake switch to transmit the parking brake status signals to the IVA-D310R/IVA-D310RB.
- ㉞ **Connect this lead to the parking brake lead powered when parking brake is engaged.**
- ㉟ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.
- ㊱ **Fuse Holder (10A)**
- ㊲ **Right Front (+) Speaker Output Lead (Grey)**
- ㊳ **Right Front (-) Speaker Output Lead (Grey/Black)**
- ㊴ **Right Rear (-) Speaker Output Lead (Violet/Black)**
- ㊵ **Right Rear (+) Speaker Output Lead (Violet)**
- ㊶ **Left Rear (+) Speaker Output Lead (Green)**
- ㊷ **Left Rear (-) Speaker Output Lead (Green/Black)**
- ㊸ **Left Front (-) Speaker Output Lead (White/Black)**
- ㊹ **Left Front (+) Speaker Output Lead (White)**

System Example

Connect the Ai-NET compatible audio processor (Fiber digital compatible), Navigation system, DVD player and changer.



- When the fiber digital compatible product is connected, it is necessary to set the mode of this unit. Refer to "Setting the Digital Output" (page 36) and set to ON. Then refer to "Optical Digital Input Selection for an External Audio Processor" (page 36) and switch the setting.
- * When connecting with PXA-H510 :
 - Connect the fiber digital input terminal to the DVD.
 - IVA-D310R/IVA-D310RB and DVA-5205P or DVA-5210 cannot be connected simultaneously when fiber digital is in use.
- When the NVE-N055PS is connected for the Navigation System, use the RGB conversion cable KCE-030N (Sold separately).

Please observe the following when using Fiber Optic Cable.

- Do not coil the Fiber Optic Cable smaller than a 30 mm radius.
- Do not place anything on top of the Fiber Optic Cable.

① **RGB Cable (Included with Navigation)**

② **Remote IN/OUT Terminal**

③ **RGB Input Terminal**

Connect this to the RGB output terminal of the Navigation System.

④ **System Switch**

When connecting an equalizer or divider using Ai-NET feature, place this switch in the EQ/DIV position. When no device is connected, leave the switch in the NORM position.

- *Be sure to turn the power off to the unit before changing the switch position.*

⑤ **Digital Output Terminal**

⑥ **Ai-NET Connector**

Connect this to the output or input connector of other product equipped with Ai-NET.

⑦ **AUX Video Input Terminal**

Connect the video output lead of a DVD video player or DVD changer to this terminal.

⑧ **RCA Extension Cable (Included with DVD video player)**

⑨ **Ai-NET Cable (Included with DVD video player)**

⑩ **Fiber optic Cable (Sold Separately)**

⑪ **Ai-NET Cable (Included with Audio Processor)**

⑫ **Ai-NET Cable (Included with CD Changer)**

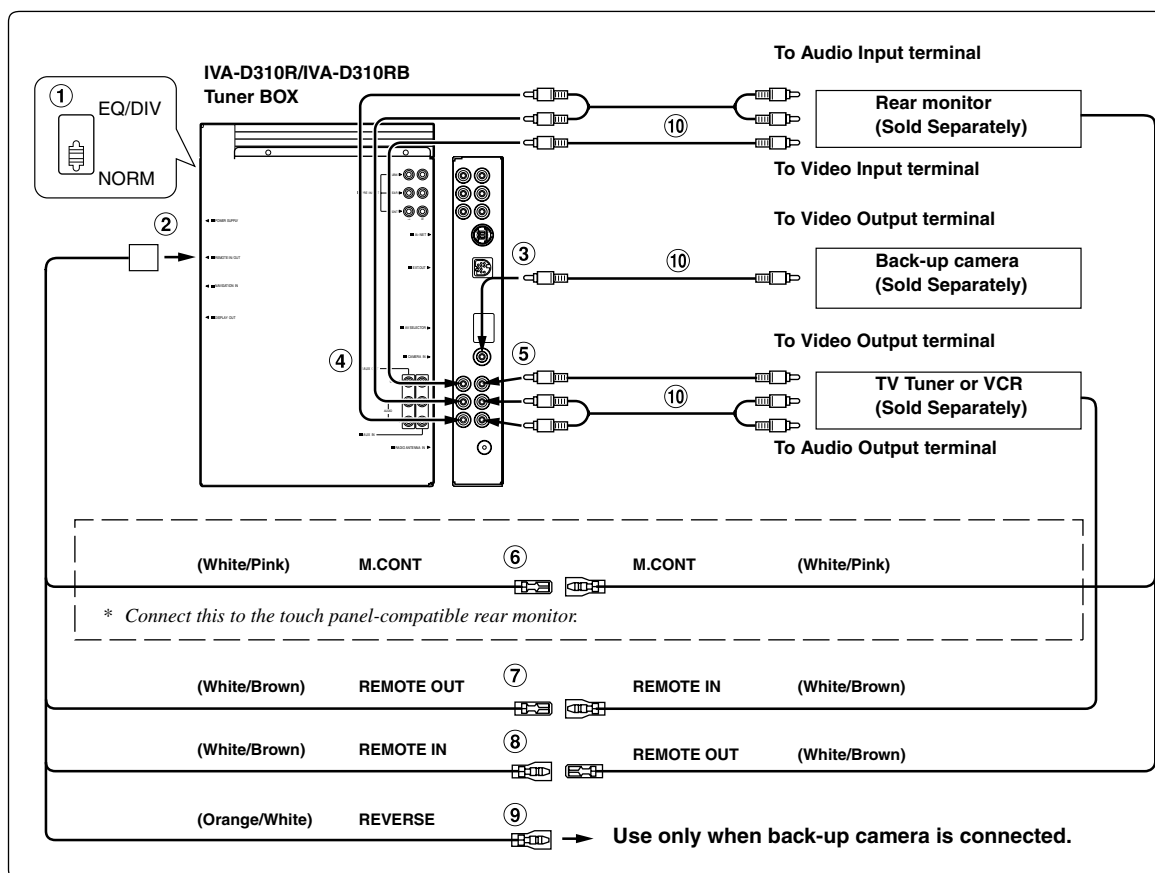
⑬ **Remote Control Output Lead (White/Brown)**

Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.

⑭ **To Ai-NET Connector (Grey)**

⑮ **To Ai-NET Connector (Black)**

When Connecting External Equipment



① System Switch

When connecting an equalizer or divider using Ai-NET feature, place this switch in the EQ/DIV position. When no device is connected, leave the switch in the NORM position.

- Be sure to turn the power off to the unit before changing the switch position.

② Remote IN/OUT Terminal

③ CAMERA Input Terminal

Use when connecting a back-up camera.

④ AUX Video/Audio Output Terminal

Use when connecting an optional monitor etc.

⑤ AUX Video/Audio Input Terminal

⑥ Monitor Control Lead (White/Pink)

Connect this to the Monitor Control Lead of the touch panel-compatible rear monitor.

⑦ Remote Control Output Lead (White/Brown)

Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.

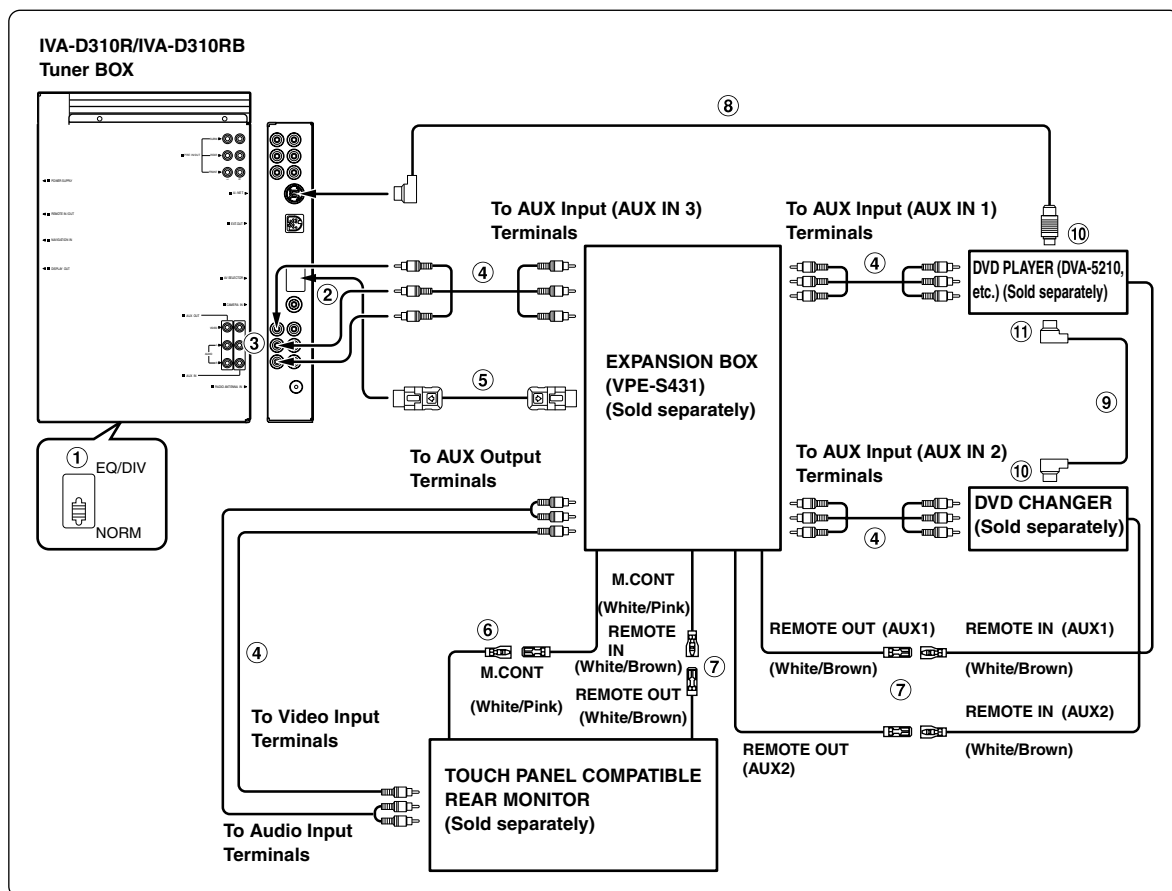
⑧ Remote Control Input Lead (White/Brown)

⑨ Reverse Lead (Orange/White)

Connect to the plus side of the car's reverse lamp which lights when the transmission is shifted into reverse (R). Switches the video picture to the back-up camera. This is linked to putting the car into reverse (R).

⑩ RCA Extension Cable (Sold separately)

Connect an expansion box (VPE-S431), DVD Player, DVD Changer or the Touch Panel-compatible Monitor.



- If the expansion box (VPE-S431) is connected to either a DVD video player or DVD changer, connect to AUX IN 1. If it is connected to AUX IN 2, remote control operation will not be possible. If both are to be connected, connect the DVD video player to AUX IN 1, and the DVD changer to AUX IN 2.

① System Switch

When connecting an equalizer or divider using Ai-NET feature, place this switch in the EQ/DIV position. When no device is connected, leave the switch in the NORM position.

- Be sure to turn the power off to the unit before changing the switch position.

② To AV Selector Terminal

③ AUX Video/Audio Output Terminal

④ RCA Extension Cable (Sold separately)

⑤ AV Selector Cable (Included with VPE-S431)

⑥ Monitor Control Lead (White/Pink)

Connect this to the Monitor Control Lead of the touch panel-compatible rear monitor.

⑦ Remote Control Output Lead (White/Brown)

Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.

⑧ Ai-NET Cable (Included with DVD video player)

⑨ Ai-NET Cable (Included with DVD changer)

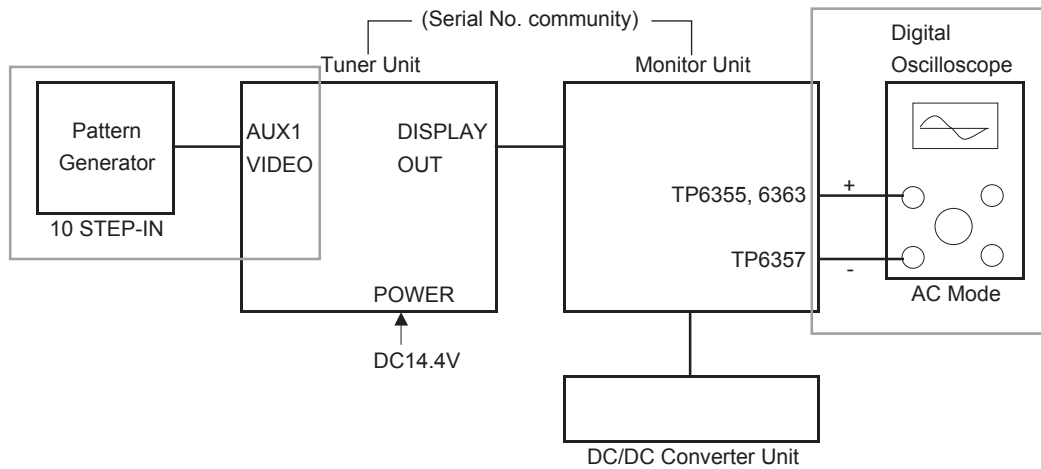
⑩ To Ai-NET Connector (Black)

⑪ To Ai-NET Connector (Grey)

Adjustment Procedures

1. VIDEO Adjustment

(1) Connections



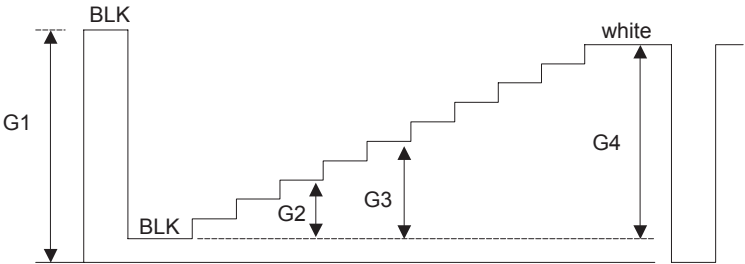
NOTE: When performing VIDEO adjustment, a MONITOR unit and a TUNER unit must connect the unit product of the same serial No.

<Figure 1>

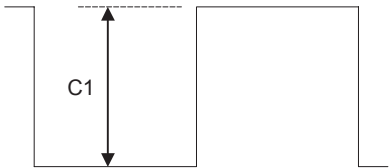
(2) Adjustment

Step	Operations Process	Test Point/ P.W.Board Coordinates	Adjustment
1	(1) Setup DIAG Mode (only RADIO Mode)		
	-1 Push long "P1/2" or "P2/2" KEY.		
	-2 Next, push "UP" KEY.		
	-3 Next, push "DN" KEY.		
	-4 Next, push "SOURCE" KEY.		
	(2) Select "VIDEO CHK" by pushing "P.SET3" KEY at DIAG Mode.		
	(3) Select "P.SET4" KEY at VIDEO CHK Mode.		
2	-1 Brightness Adjustment	TP6355 (4-F) TP6357 (4-F)	-1. Select "Brightness Adjustment mode" by pushing "P.SET3" or "P.SET4" KEY.
			-2. Adjust to 3.5Vp-p{G1} by pushing "P.SET1" UP KEY or "P.SET2" DOWN KEY. (Refer to Figure-2-1)
			-3. Push "P2/2" KEY.
	-2 Contrast Adjustment	TP6355 (4-F) TP6357 (4-F)	-1. Select "Contrast Adjustment mode" by pushing "P.SET3" or "P.SET4" KEY.
			-2. Adjust to 1.6V{G2} by pushing "P.SET1" UP KEY or "P.SET2" DOWN KEY. (Refer to Figure-2-1)
			-3. Push "P2/2" KEY.
	-3 GAMMA1 Adjustment	TP6355 (4-F) TP6357 (4-F)	-1. Select "GAMMA1 Adjustment mode" by pushing "P.SET3" or "P.SET4" KEY.
			-2. Adjust to 2.1V{G3} by pushing "P.SET1" UP KEY or "P.SET2" DOWN KEY. (Refer to Figure-2-1)
			-3. Push "P2/2" KEY.

Step		Operations Process	Test Point/ P.W.Board Coordinates	Adjustment
2	-4	GAMMA2 Adjustment	TP6355 (4-F) TP6357 (4-F)	-1. Select "GAMMA2 Adjustment mode" by pushing "P.SET3" or "P.SET4 KEY.
				-2. Adjust to 3.1V{G4} by pushing "P.SET1" UP KEY or "P.SET2" DOWN KEY. (Refer to Figure-2-1)
				-3. Push "P2/2" KEY.
3		COM AMP Adjustment	TP6363 (4-F) TP6357 (4-F)	-1. Select "COM AMP Adjustment mode" by pushing "P.SET3" or "P.SET4 KEY.
				-2. Adjust to 6Vp-p{C1} by pushing "P.SET1" UP KEY or "P.SET2" DOWN KEY. (Refer to Figure-2-2)
				-3. Push "P2/2" KEY.
4		COM CENT Adjustment	-	-1. Select "COM CENT Adjustment mode" by pushing "P.SET3" or "P.SET4 KEY.
				-2. Adjust to flicker may become the minimum by pushing "P.SET1" UP KEY or "P.SET2" DOWN KEY.
				-3. Push "P2/2" KEY.
5		Finish VIDEO CHK Mode by pushing "P2/2" KEY.		
6		Finish DIAG Mode by pushing "P2/2" KEY.		



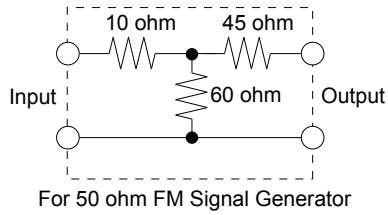
<Figure-2-1>



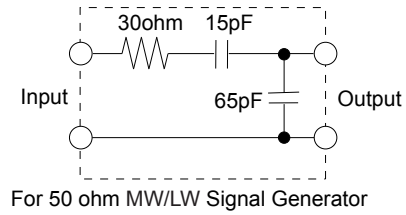
<Figure-2-2>

2. FM/MW/LW Tuner Adjustment

(1) Dummy Antenna Circuit

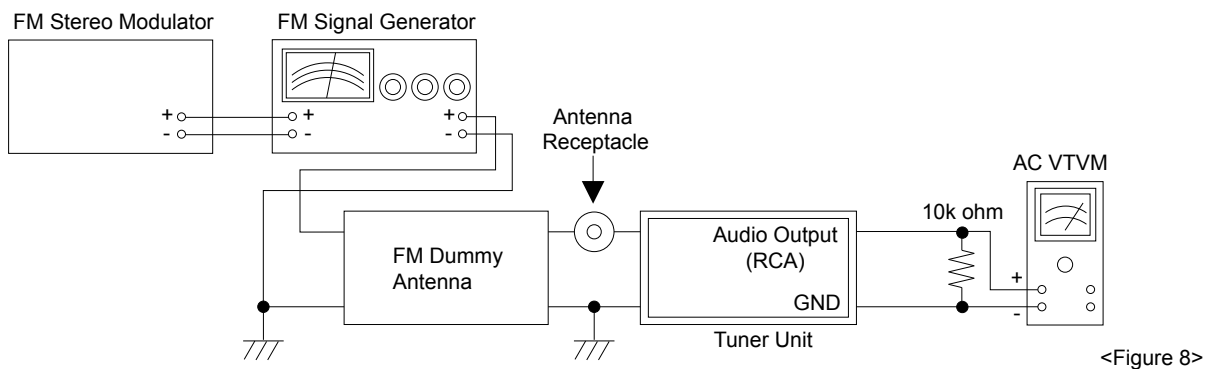
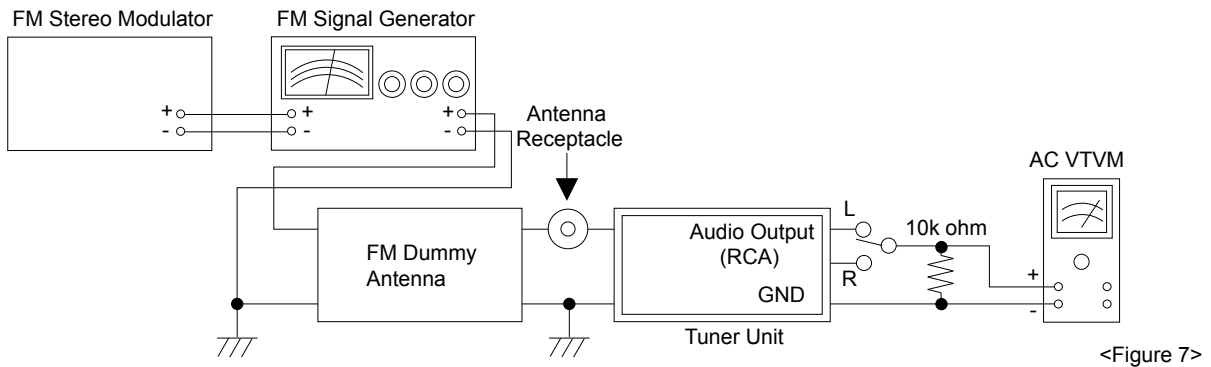
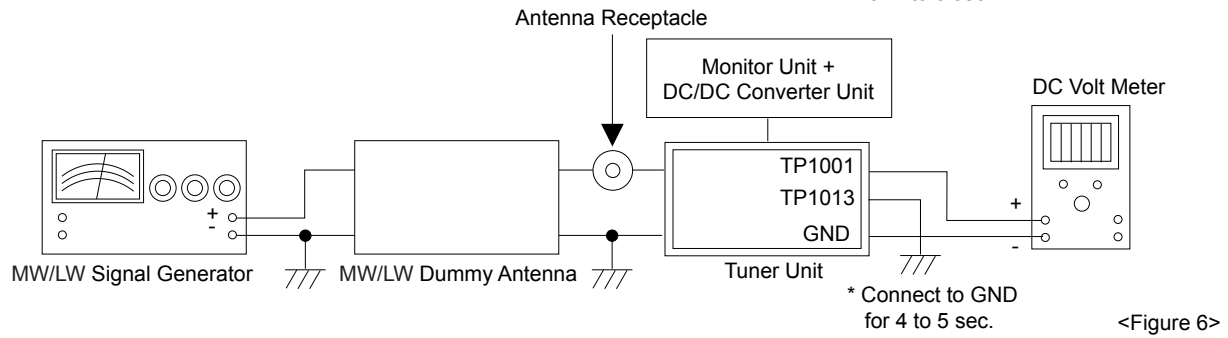
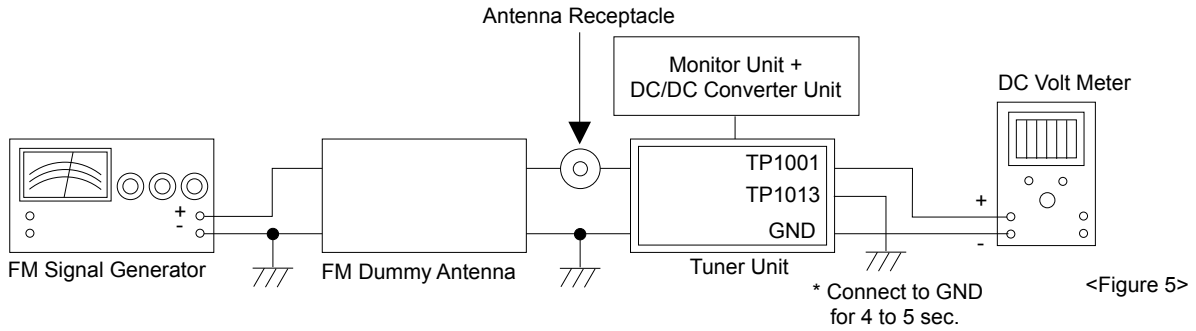


<Figure 3>



<Figure 4>

(2) Connections



(3) Control Settings

Power Switch	ON	Band Switch	FM/MW/LW
Fader Control	Center Position	MX Effect	OFF
Balance Control	Center Position	T-CORR Effect	OFF
Treble Control	Center Position	Others	OFF
Bass Control	Center Position		

(4) Adjustment Procedures

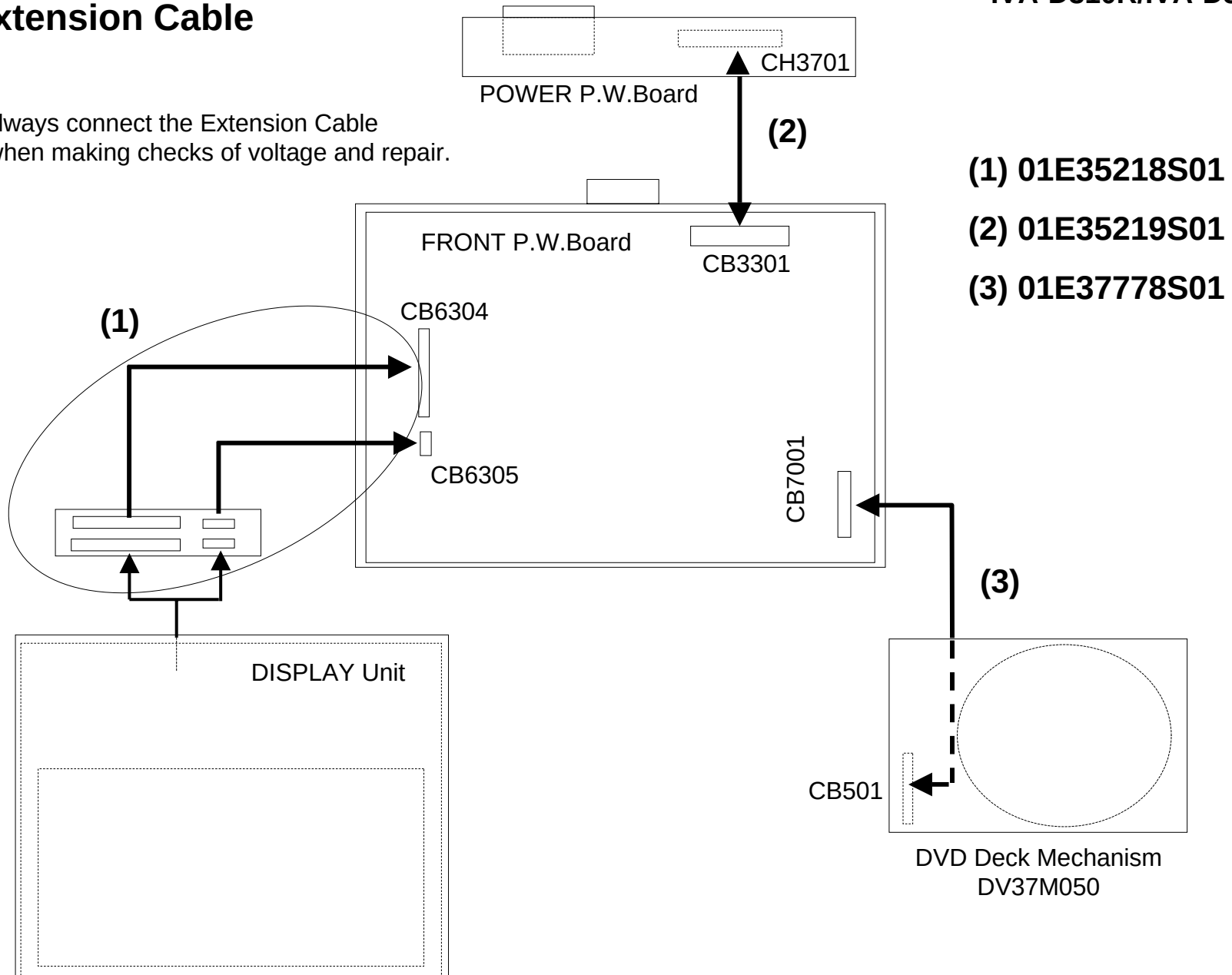
Step	Description	Connection	Signal Generator	Dial Control	Test Point / P.W.Board Coordinates	Adjustment
1	FM S-METER Adjustment	Figure 5	87.5MHz (Input 26dBu, Mod. OFF)	87.5MHz	TP1001 (4-G) TP1013 (1-F)	<Auto adjustment> 1. Select FM Mode. 2. Connect to TP1013 and GND for 4 to 5 sec. (NOTE : Perform the auto adjustment by decreasing input level between 3 and 5dBu, and then perform the auto adjustment again with input level 26dBu. In this ase make sure output at TP1001 shows 1.5±0.1V.)
2	MW S-METER Adjustment	Figure 6	999kHz (Input 34dBu, Mod. OFF)	999kHz	TP1001 (4-G) TP1013 (1-F)	<Auto adjustment> 1. Select AM Mode. 2. Connect to TP1013 and GND for 4 to 5 sec. (NOTE : Perform the auto adjustment by decreasing input level between 3 and 5dBu, and then perform the auto adjustment again with input level 34dBu. In this ase make sure output at TP1001 shows 1±0.1V.)
3	LW S-METER Adjustment	Figure 6	216kHz (Input 34dBu, Mod. OFF)	216kHz	TP1001 (4-G) TP1013 (1-F)	<Auto adjustment> 1. Select AM Mode. 2. Connect to TP1013 and GND for 4 to 5 sec. (NOTE : Perform the auto adjustment by decreasing input level between 3 and 5dBu, and then perform the auto adjustment again with input level 34dBu. In this ase make sure output at TP1001 shows 1±0.1V.)
4	FM ST. Separation (Roll OFF) Adjustment	Figure 7.	(1)	—	—	Select RADIO Mode
			(2)	—	—	Set up of DIAG Mode : Push [P1/2] or [P2/2] at the long time. Next, push [UP] . Next, push [DN] . Next, push [SOURCE] .
			(3)	—	—	Set up of CLEAR Mode : Push [P.SET4] .
			(4)	—	—	Set up of ROLL OFF Mode : Push [P.SET6] .
			(5)	98.1MHz, 72dBu. (Mod. 400Hz, . Dev. 40kHz, . Stereo, 1kHz, . Lch only)	98.1MHz Audio Output (RCA)	Push Preset Switches (P.SET1~P.SET5), and observe value of separation. Select Preset Switch of maximum separation. (SPEC) : separation : more than 20dB.
			(6)	—	—	Cancel Adjustment Mode : Push [P2/2] .

Step	Description	Connection	Signal Generator	Dial Control	Test Point / P.W.Board Coordinates	Adjustment
5	Stereo Blend Adjustment (Lch)	Figure 7	(1)	—	—	Select RADIO Mode
			(2)	—	—	Set up of DIAG Mode : Push [P1/2] or [P2/2] at the long time. Next, push [UP] . Next, push [DN] . Next, push [SOURCE] .
			(3)	—	—	Set up of CLEAR Mode : Push [P.SET4] .
			(4)	—	—	Set up of BLEND Mode : Push [P.SET4] .
			(5)	98.1MHz, 48dBμ (Mod. 400Hz, Dev. 40kHz, Stereo, 1kHz, Lch only)	98.1MHz Audio Output (RCA)	Push Preset Switches (1~6), and observe value of blend. (SPEC) : Blend : 8±6dB.
			(6)	—	—	Cancel Adjustment Mode : Push [P 2 / 2] .
6	Limiting Adjustment	Figure 8	(1)	—	—	Select RADIO Mode
			(2)	—	—	Set up of DIAG Mode : Push [P1/2] or [P2/2] at the long time. Next, push [UP] . Next, push [DN] . Next, push [SOURCE] .
			(3)	—	—	Set up of CLEAR Mode : Push [P.SET4] .
			(4)	—	—	Set up FM SOFT MUTE Mode : Push [P.SET5] .
			(5)	98.1MHz, 24dBμ (Mod. 400Hz, Dev. 40kHz)	98.1MHz Audio Output (RCA)	Push Preset Switches (1~4), and observe value of limiting. (SPEC) : Limiting : -3dB.
			(6)	—	—	Cancel Adjustment Mode : Push [P 2 / 2] .

NOTE : For the Test Points and Ajustment parts, refer to the Parts Layout on P.W.Boards and Wiring Diagram.

Extension Cable

*Always connect the Extension Cable
when making checks of voltage and repair.



*** Monitor Unit Block****Contents**

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NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Specifications

<Monitor SECTION>

Screen Size	"7" type
Display System	Transparent type TN LCD
Drive System	TFT active matrix
Number of Picture Elements	336,960 pcs. (1,440 x 234)
Light Source	Cold cathode fluorescent tube

<CD/DVD SECTION>

System	Optical (DVD System)
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(CD AUDIO)

Channel Balance (1kHz, TCD-782)	0±3dB
Distortion (1kHz, TCD-782)	0.3%
Frequency Response (Ref. 1kHz, TCD-782)	17Hz : 0±4dB 127Hz : 0±2dB 10.007kHz : 0±2dB 19.997kHz : -2±4dB
S/N Ratio (TCD-782)	80dB
Separation (1kHz, TCD-782)	65dB
De-Emphasis (Ref. 1kHz, TCD-782)	4kHz : -20±3dB 16kHz : -20±3dB

(MP-3 AUDIO)

Channel Balance (1kHz, SCD-4419 (128kbps))	0±3dB
Distortion (1kHz, SCD-4419 (128kbps))	0.3%
Frequency Response (Ref. 1kHz, SCD-4419 (128kbps))	17Hz : 0±4dB 127Hz : 0±2dB 10.007kHz : 0±2dB 19.997kHz : -2±4dB
S/N Ratio (SCD-4419 (128kbps))	80dB
Separation (1kHz, SCD-4419 (128kbps))	65dB

(WMA AUDIO)

Channel Balance (1kHz, SCD-5100 (128kbps))	0±3dB
Distortion (1kHz, SCD-5100 (128kbps))	0.3%
Frequency Response (Ref. 1kHz, SCD-5100 (128kbps))	17Hz : 0±4dB 127Hz : 0±2dB 10.007kHz : 0±2dB 19.997kHz : -2±4dB
S/N Ratio (SCD-5100 (128kbps))	80dB
Separation (1kHz, SCD-5100 (128kbps))	65dB

(DVD-VIDEO)

***AUDIO PRE-OUT** : Title Number 4/Audio Stream 2/LPCM 48k

Channel Balance (1kHz, TDV-540A, Chapter1)	0±3dB
Distortion (1kHz, TDV-540A, Chapter1)	0.3%
Frequency Response (Ref. 1kHz, TDV-540A)	Chapter6 : 17Hz : 0±4dB Chapter8 : 127Hz : 0±2dB Chapter13 : 10.007kHz : 0±2dB Chapter15 : 19.997kHz : -2±4dB
S/N Ratio (TDV-540A, Chapter1&2)	80dB
Separation (1kHz, TDV-540A, Chapter3&4)	65dB

IVA-D310R/IVA-D310RB

*VIDEO AUX OUT1 : PAL/Terminating Resistance 75 ohm

Luminance Level (V-509, Title4/Chapter3, White100%, SUBT.OFF)	1±0.15V
Luminance Frequency Response (4.7MHz, V-509, Title5/Chapter2, Multi Burst60%, SUBT.OFF)	-5±2dB
Luminance Signal S/N Ratio (V-509, Title4/Chapter4, Gray50%, SUBT.OFF)	50dB

*AUDIO AUX-OUT : 10k ohm Resistive Load, Title Number 4/Audio Stream 3/LPCM 96k

Output Level (1kHz, TDV-540A, Chapter1)	1.2±0.2Vrms
Channel Balance (1kHz, TDV-540A, Chapter1)	0±3dB
Distortion (1kHz, TDV-540A, Chapter1)	0.3%
Frequency Response (Ref. 1kHz, TDV-540A)	Chapter6 : 17Hz : -3±3dB Chapter8 : 127Hz : 0±2dB Chapter13 : 19.997kHz : -2±2dB
S/N Ratio (TDV-540A, Chapter1&2)	80dB
Separation (1kHz, TDV-540A, Chapter3&4)	65dB

(VIDEO-CD)

*AUDIO : MPEG AUDIO

Channel Balance (1kHz, TVD-581A, Track1)	0±3dB
Distortion (1kHz, TVD-581A, Track1)	0.3%
Frequency Response (Ref. 1kHz, TVD-581A)	Track7 : 21Hz : 0±4dB Track8 : 127Hz : 0±2dB Track10 : 10.007kHz : 0±2dB Track13 : 19.997kHz : -2±4dB
S/N Ratio (TVD-581A, Track1&2)	80dB
Separation (1kHz, TVD-581A, Track3&4)	65dB

*VIDEO : PAL/Terminating Resistance 75 ohm

Luminance Level (HLV-402, Track22, White100%)	1±0.15V
Luminance Frequency Response (2MHz, HLX-402, Track21, Multi Burst)	-2±2dB
Luminance Signal S/N Ratio (HLV-402, Track20, Gray50%)	45dB

<DVD Deck Mechanism>

Test Disc	for Single layer disc valuation : TDV-520C for Dual layer disc valuation : TDV-540C
RF Waveform Amplitude	1.125±0.5Vp-p
Quantity of Jitter (all-T standard deviation)	Less than 14.0%
Measurement Angle Range	Front and Rear : -20°~50° Right and Left : ±20°
Laser Current	Initial value ±2mA (The initial value of laser current is indicated on the Flexible Cable.)

<Pickup>

Wave Length	DVD : 665nm CD : 785nm
Laser Power	CLASS II

<GENERAL>

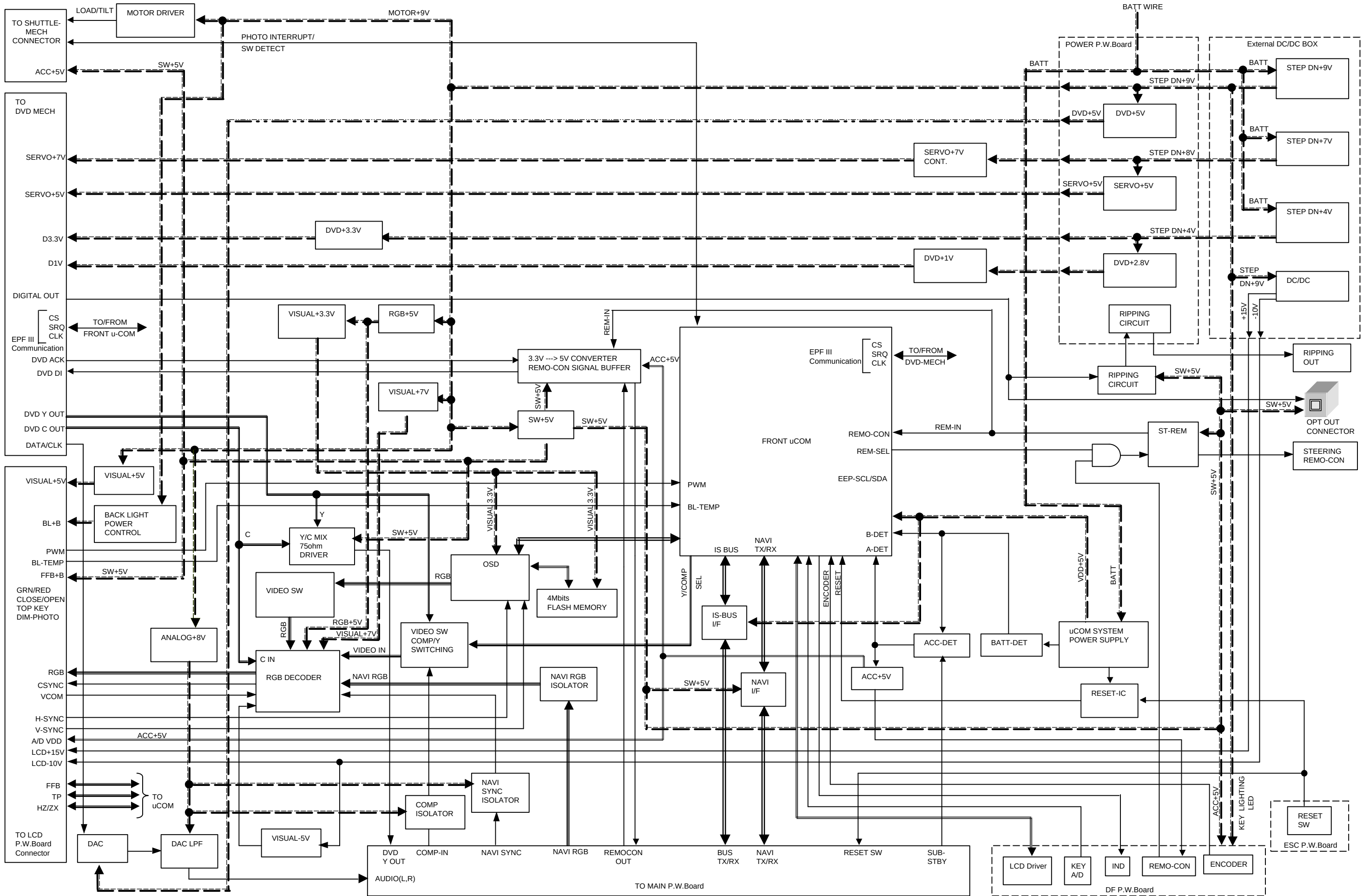
Power Supply	DC14.4V
Dimensions (W x H x D)	Chassis : 178 x 50 x 165mm Nose : 170 x 47.35 x 39mm
Weight	2.2kg

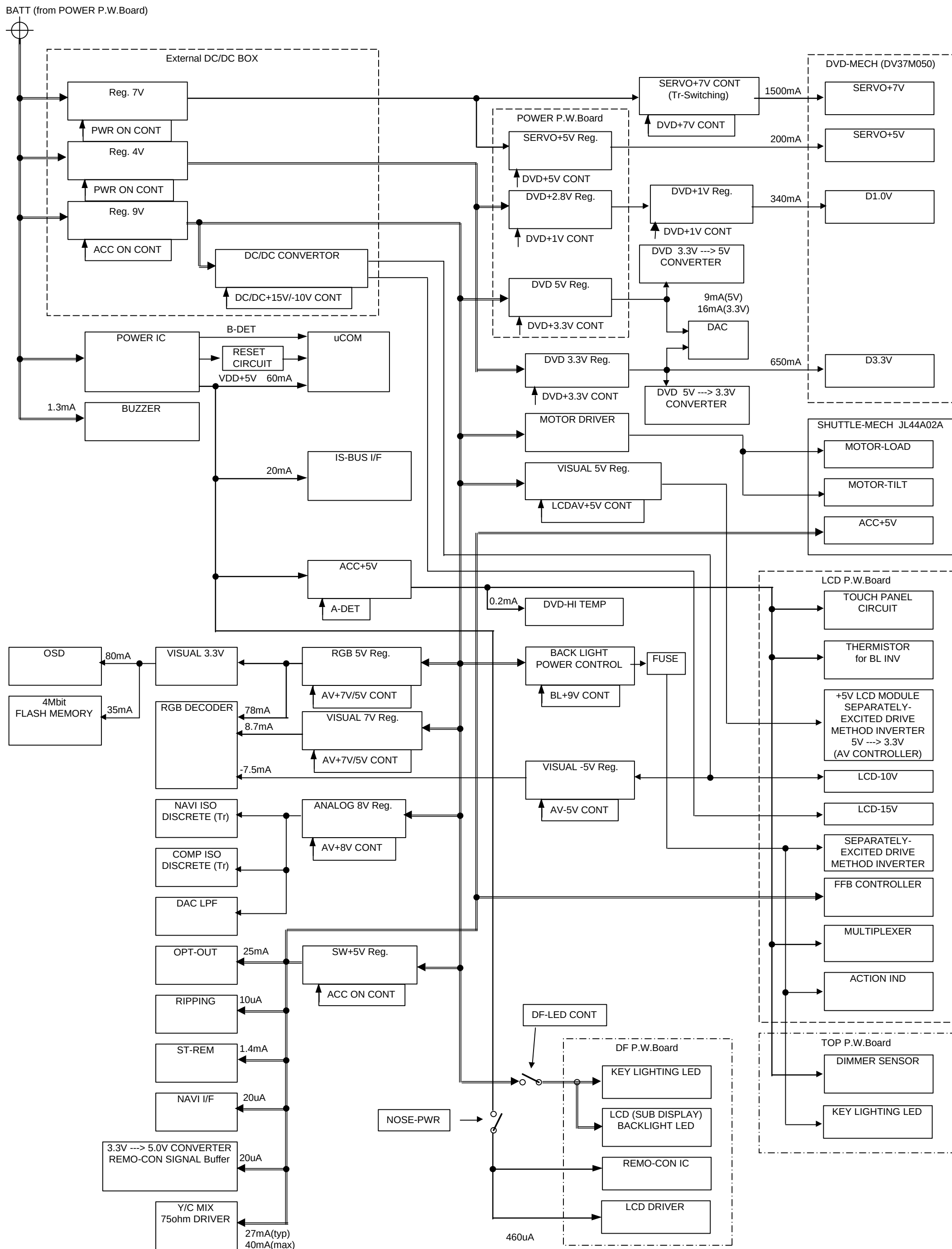
NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Block Diagram

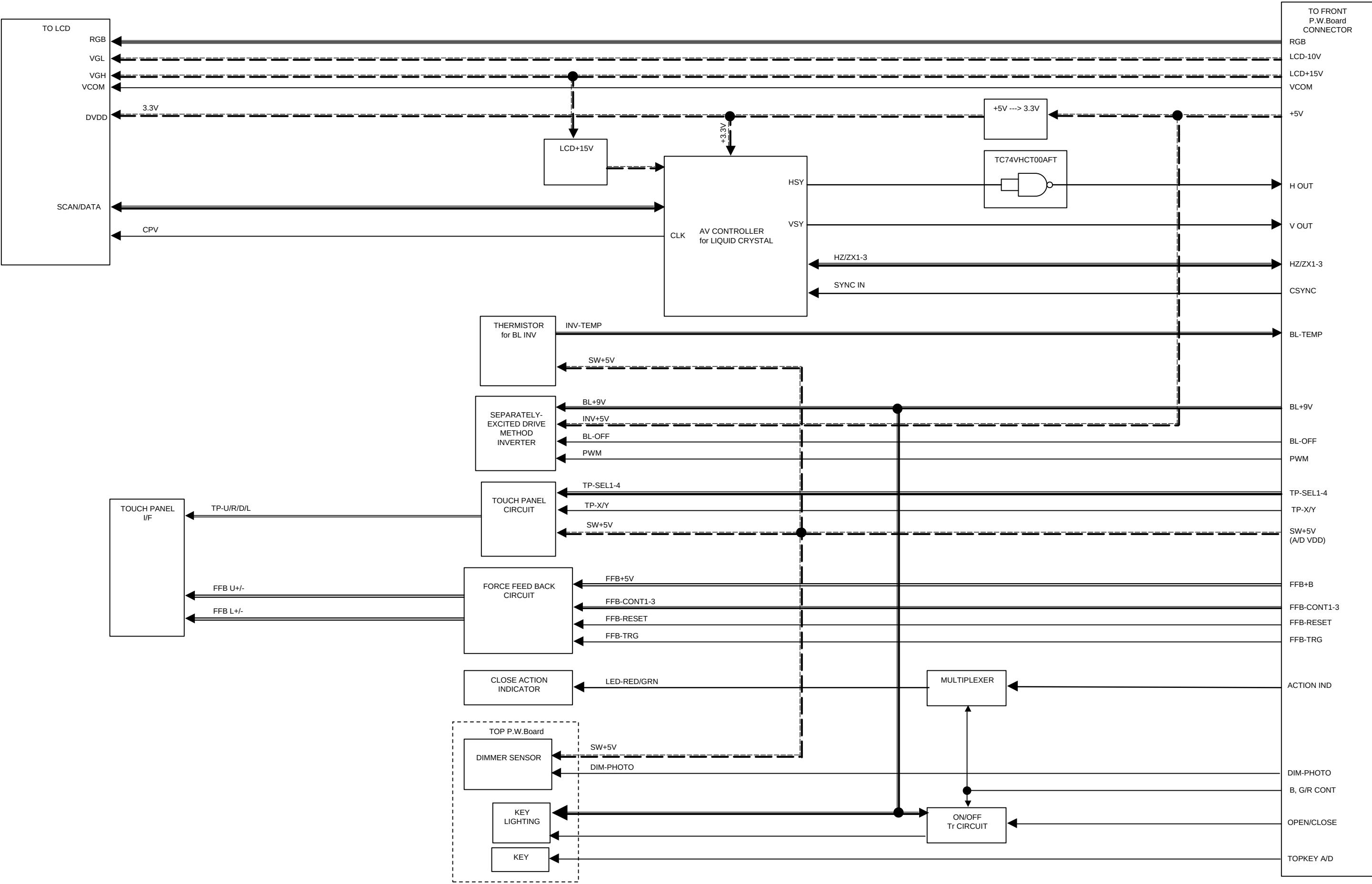
IVA-D310R/IVA-D310RB

< FRONT, DC/DC P.W.Board >





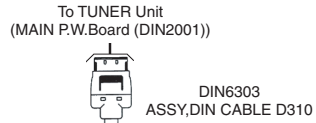
< LCD P.W.Board >



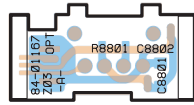
Parts Layout on P.W.Boards and Wiring Diagram(1/7)

IVA-D310R/IVA-D310RB

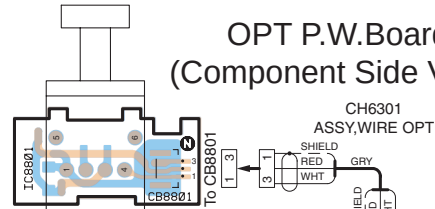
1



OPT P.W.Board
(Foil Side View)



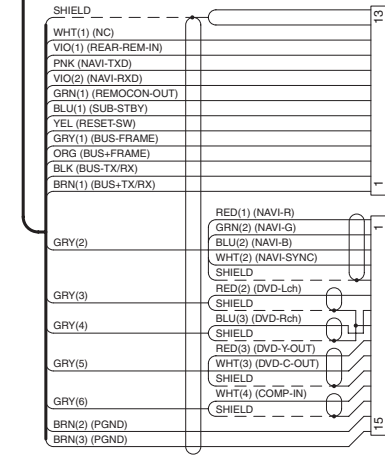
OPT P.W.Board
(Component Side View)



FRONT P.W.Board
(Component Side View)

POWER P.W.Board
(Component Side View)

2



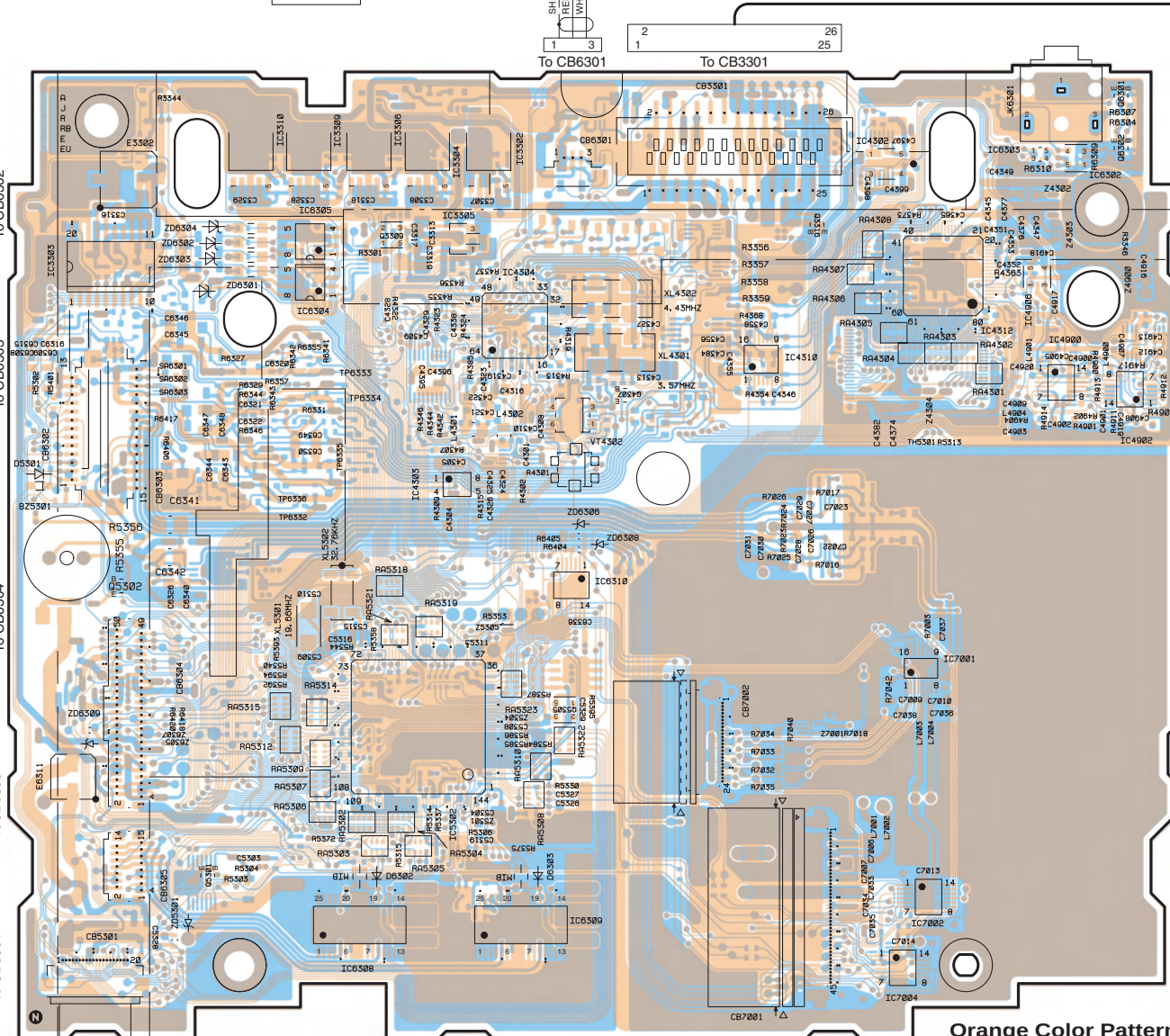
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4

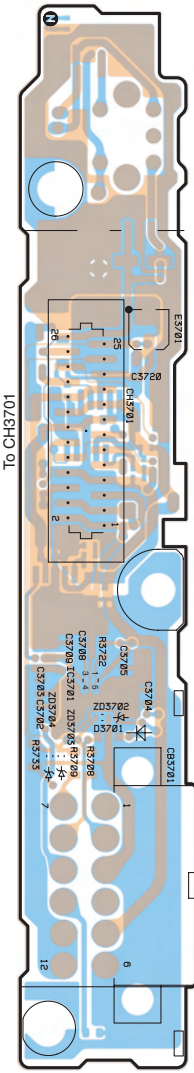
5

From FPC,MAIN RDAL402A
P.W.Board (C)

From ESC P.W.Board
(CB4700)



To CB7002
To CB7001
From DV-MAIN P.W.Board (CB501)
From DV-MAIN P.W.Board (CB502)



To DC/DC CONVERTOR Unit
(PBOX P.W.Board (CB3801))

Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

A

B

C

D

E

F

G

1

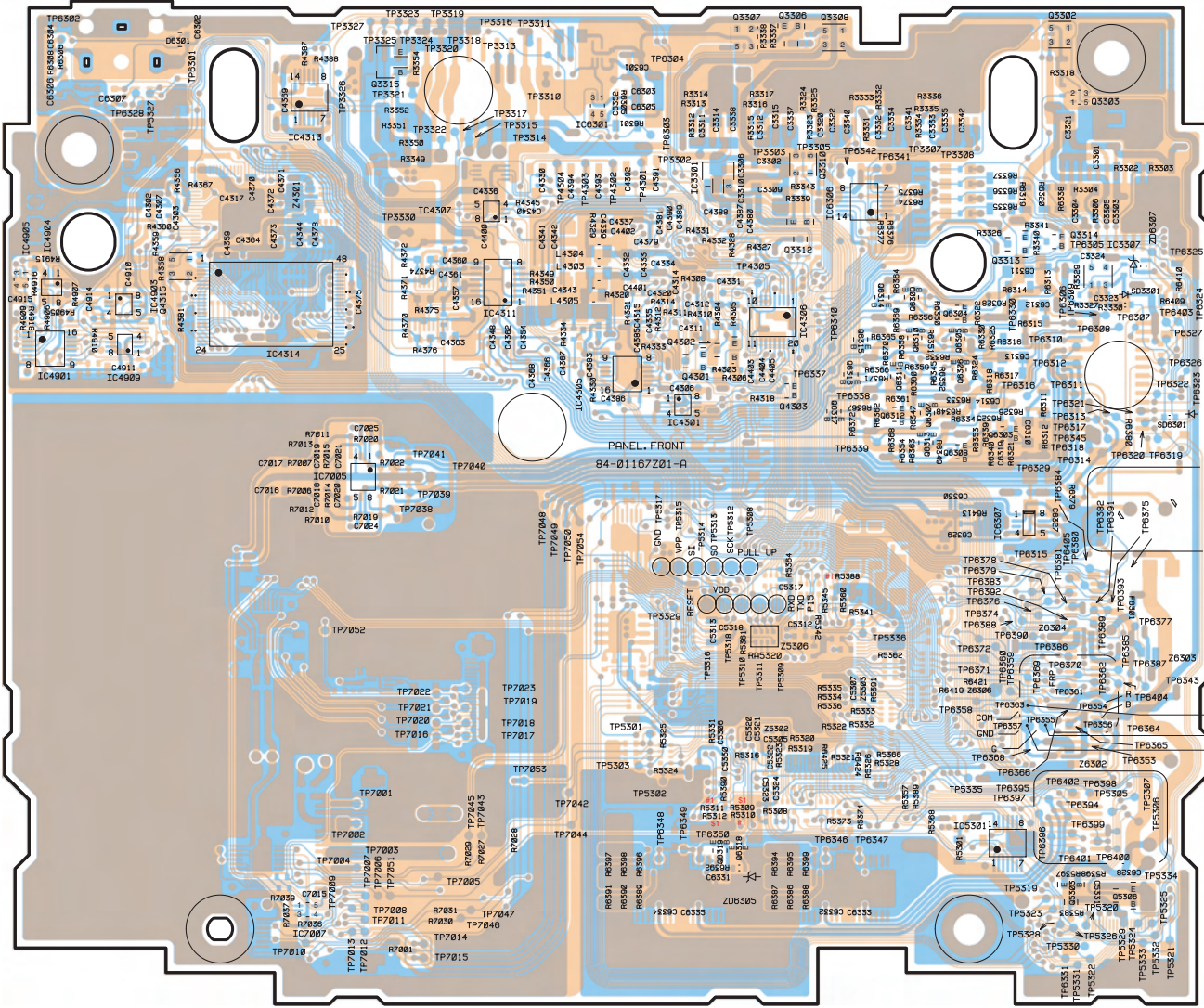
2

3

4

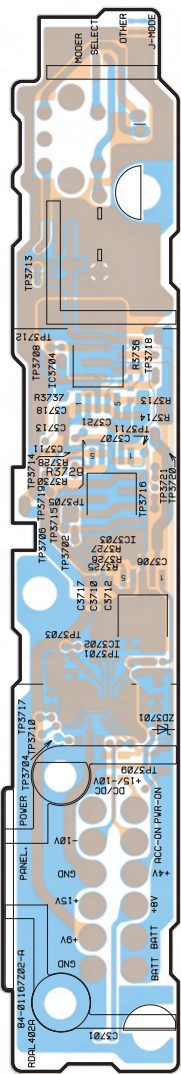
5

FRONT P.W.Board (Foil Side View)

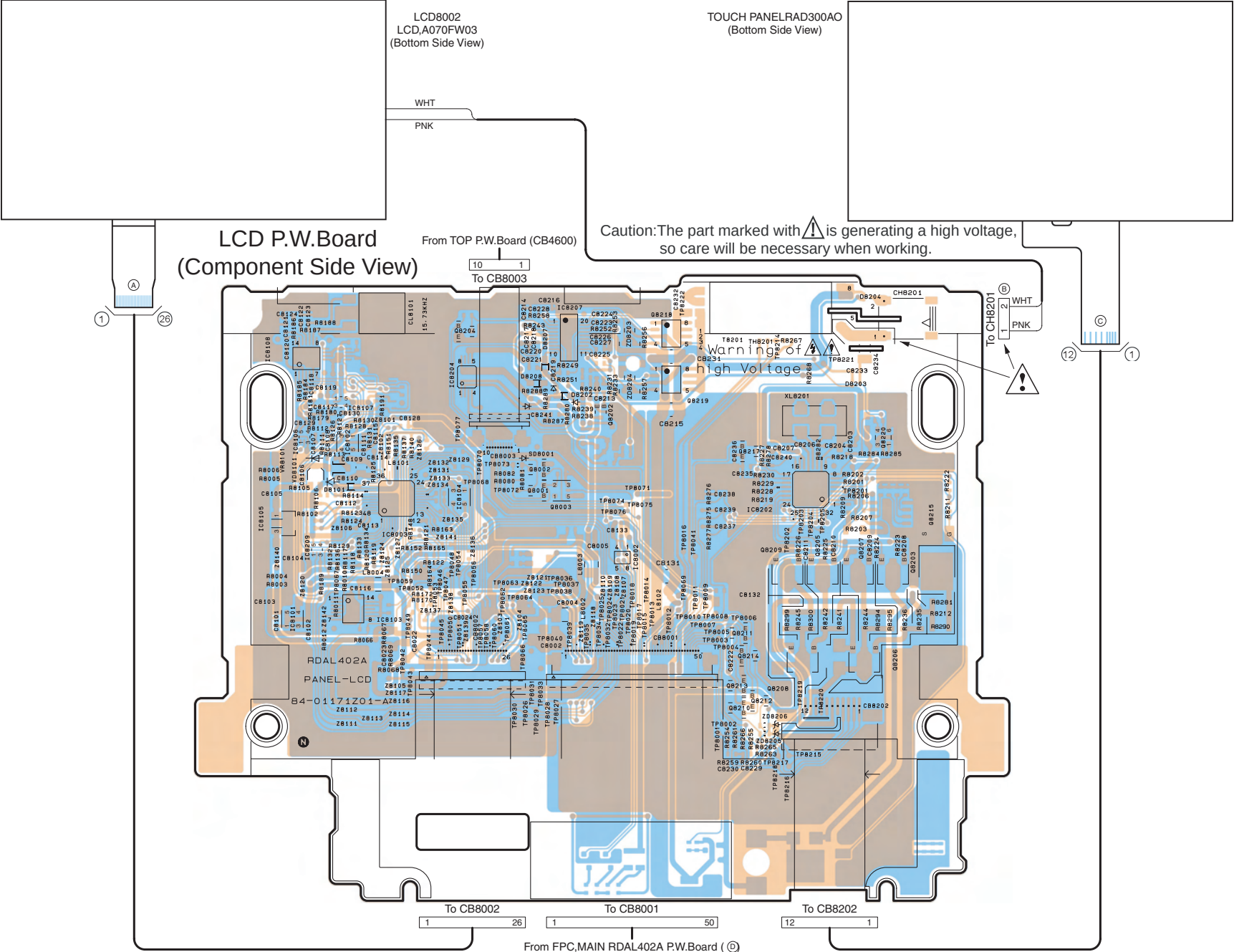


NOTE : #1 : For IVA-D310R Model Only,
\$1 : For IVA-D310RB Model Only,
Others : Common.

POWER P.W.Board
(Foil Side View)



Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern



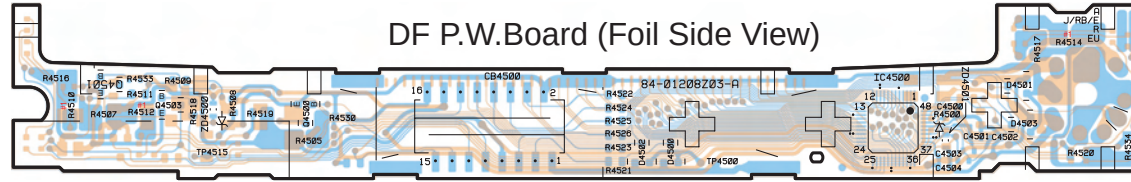
Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

Caution: The part marked with  is generating a high voltage, so care will be necessary when working.

A	B	C	D	E	F	G
---	---	---	---	---	---	---

5

DF P.W.Board (Foil Side View)



TOP P.W.Board (Component Side View)



1

2

3

4

5

A

B

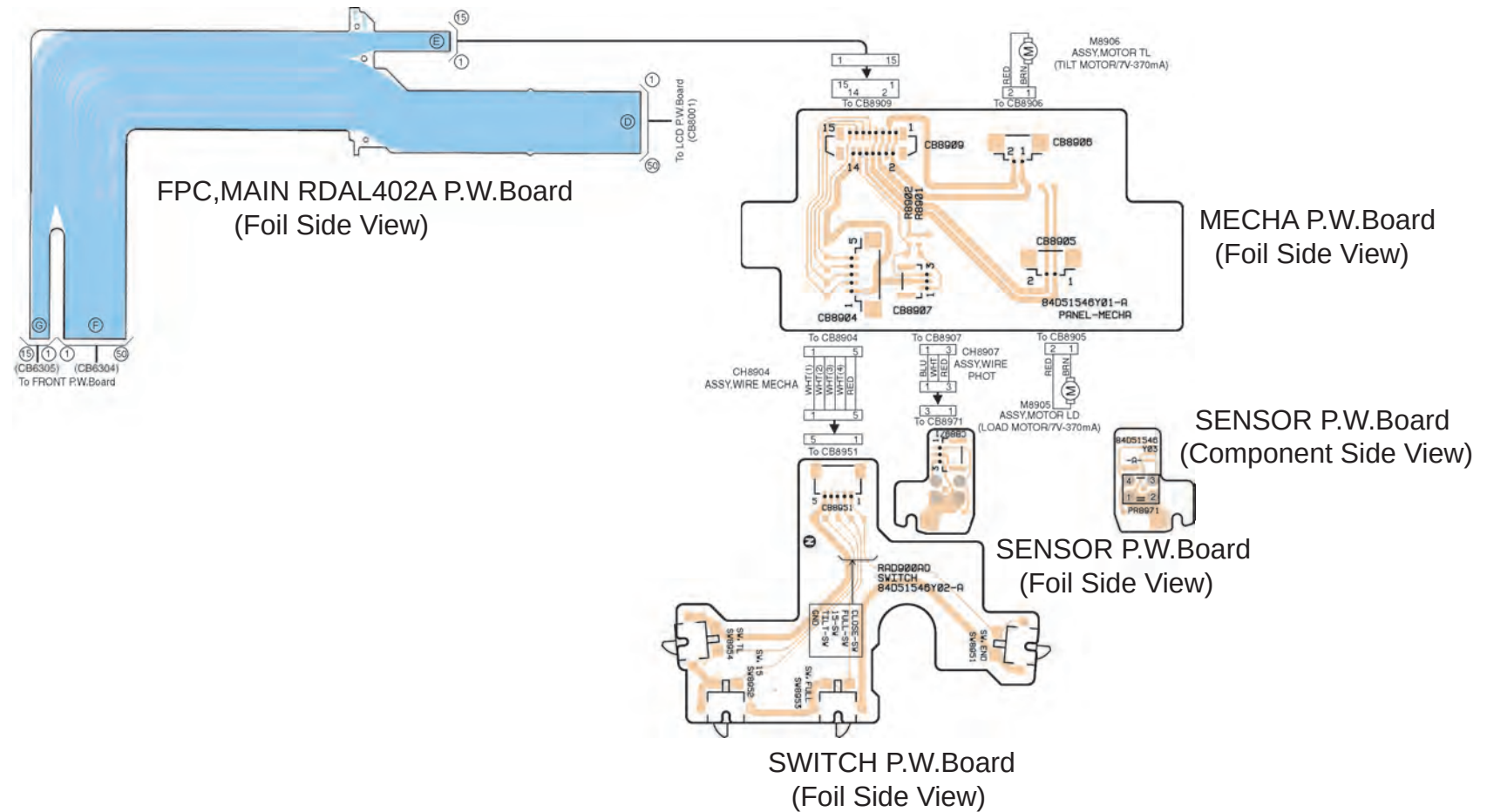
C

D

E

F

G

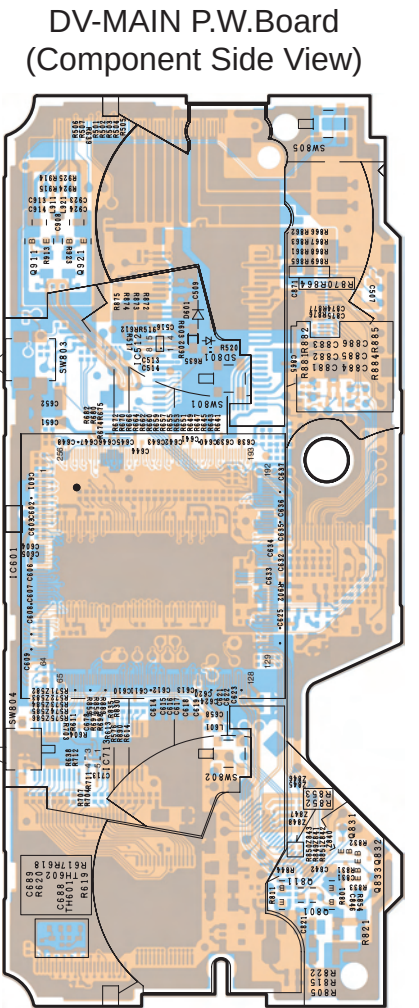
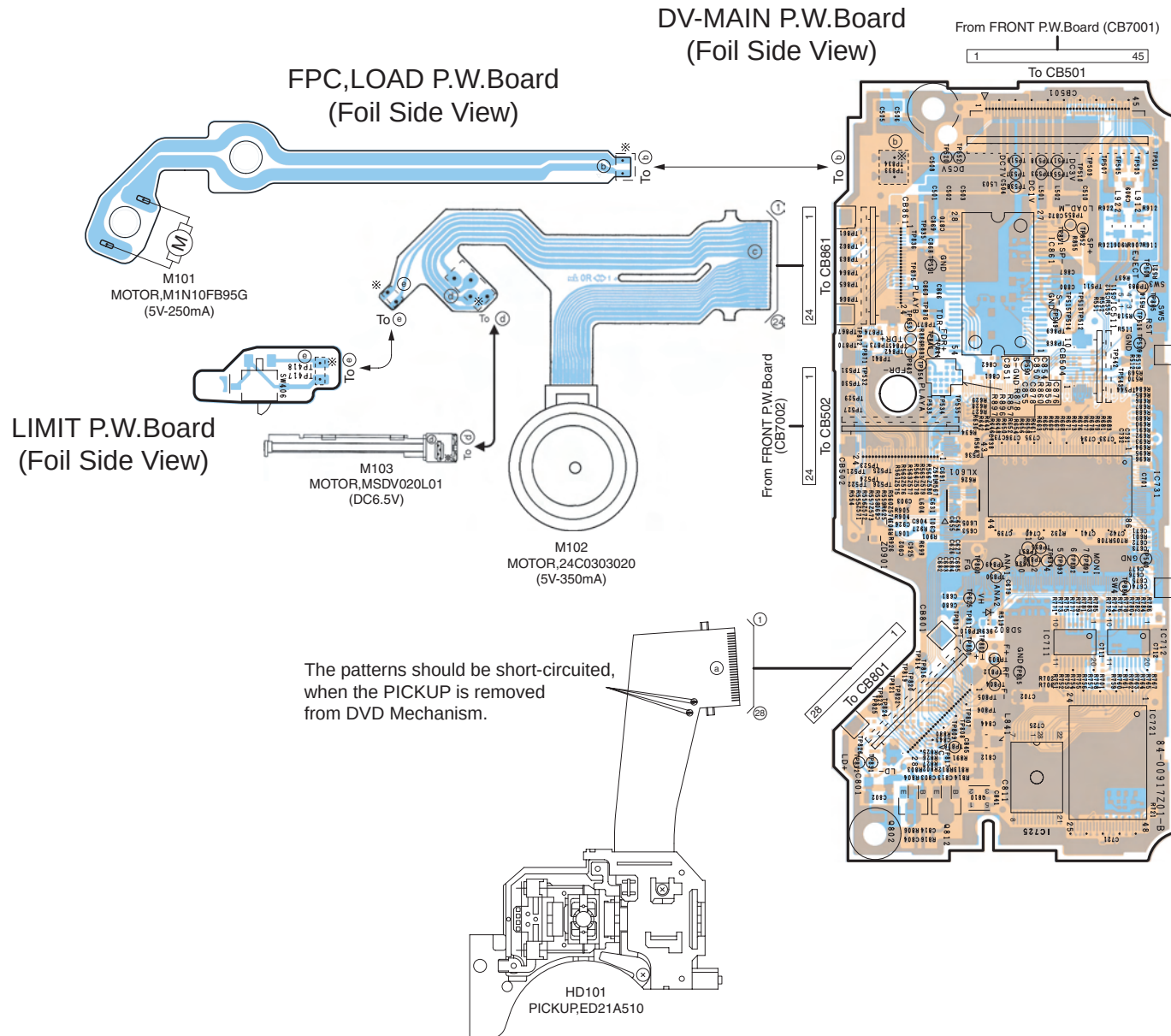


Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

5

Parts Layout on P.W.Boards and Wiring Diagram(7/7)

IVA-D310R/IVA-D310RB



Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

A

B

C

D

E

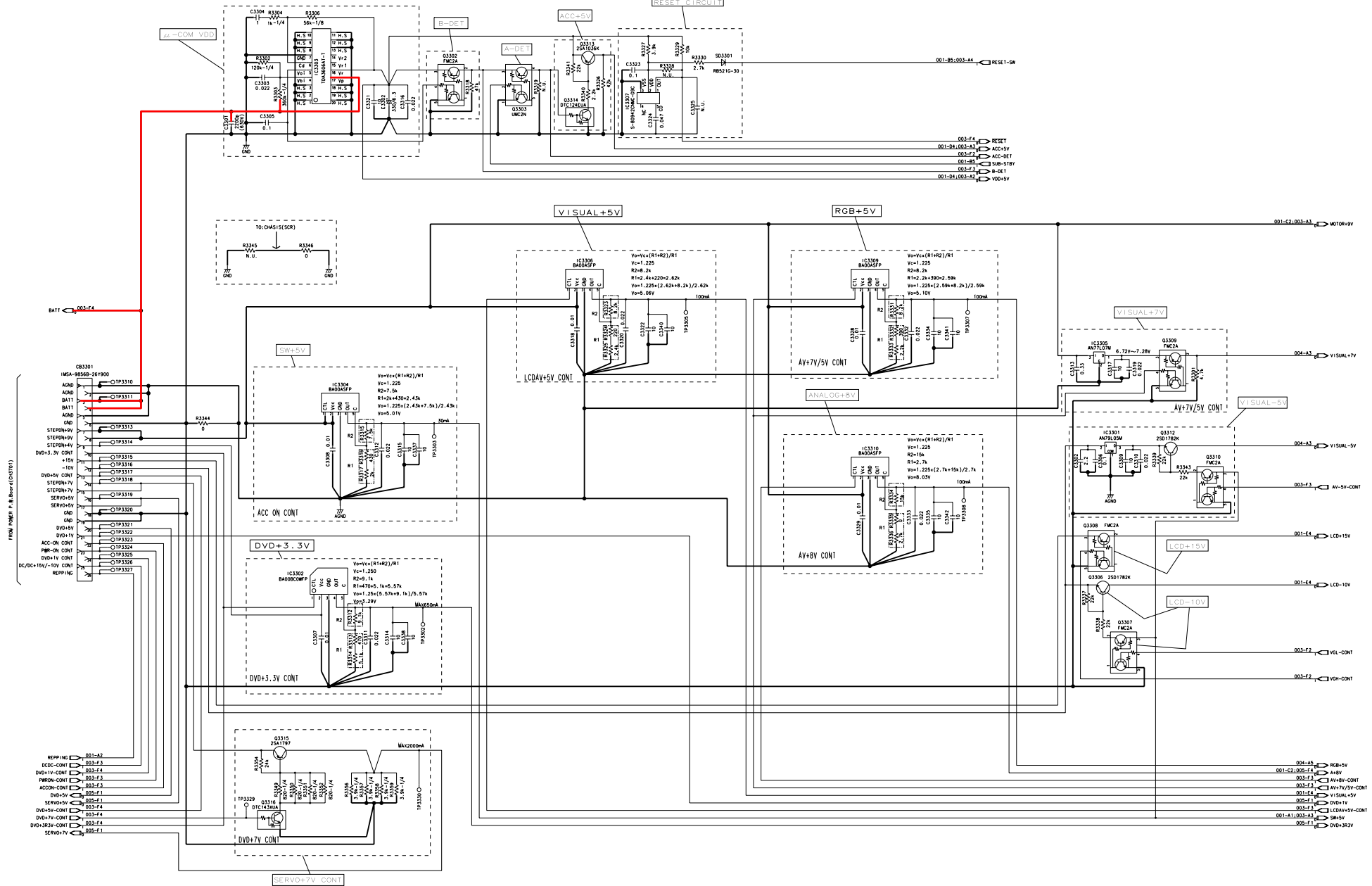
F

G

FROM FPC, VAIN RDAL402A P.W. Board (F)

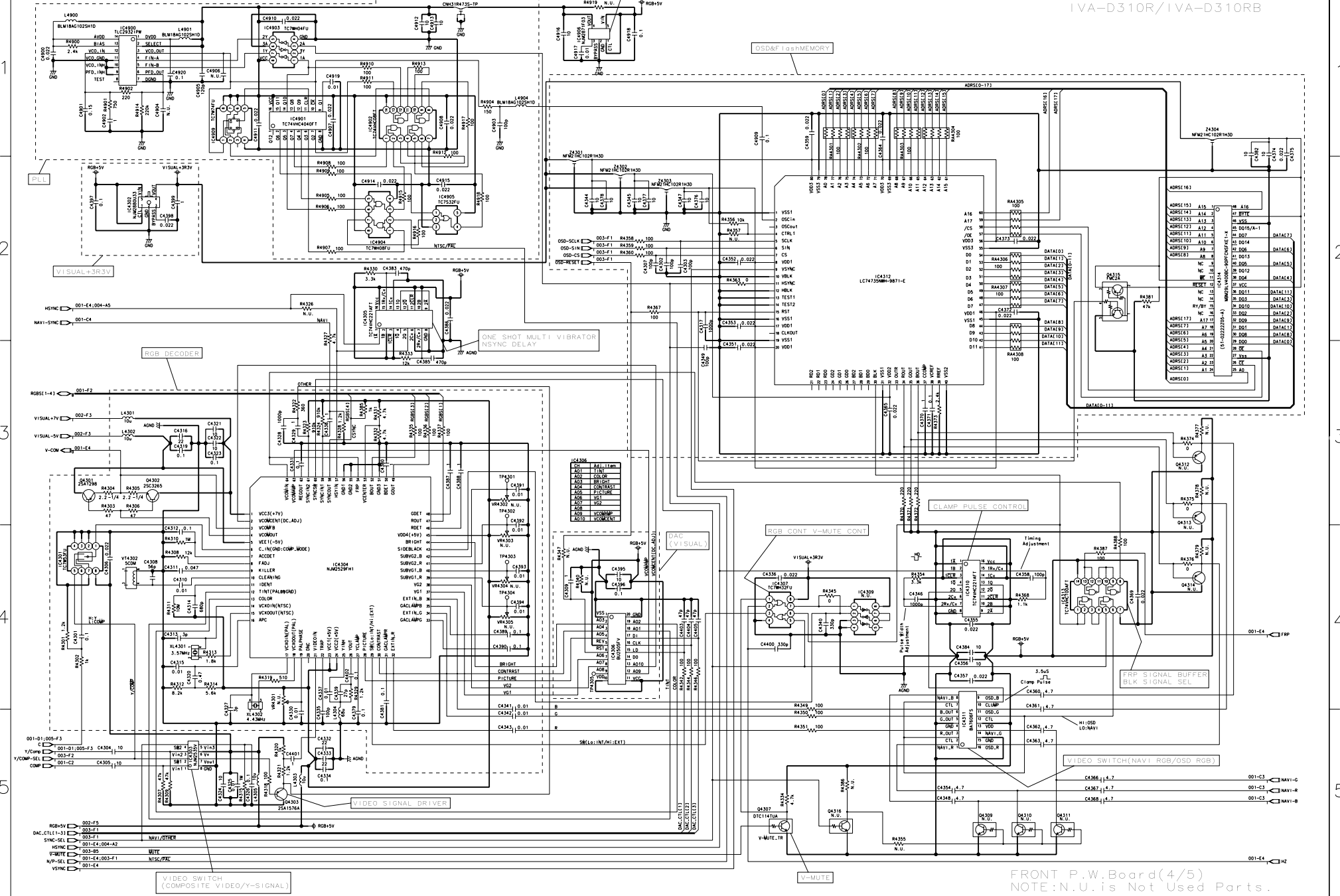
Schematic Diagram(2/18)

IVA-D310R/IVA-D310RB



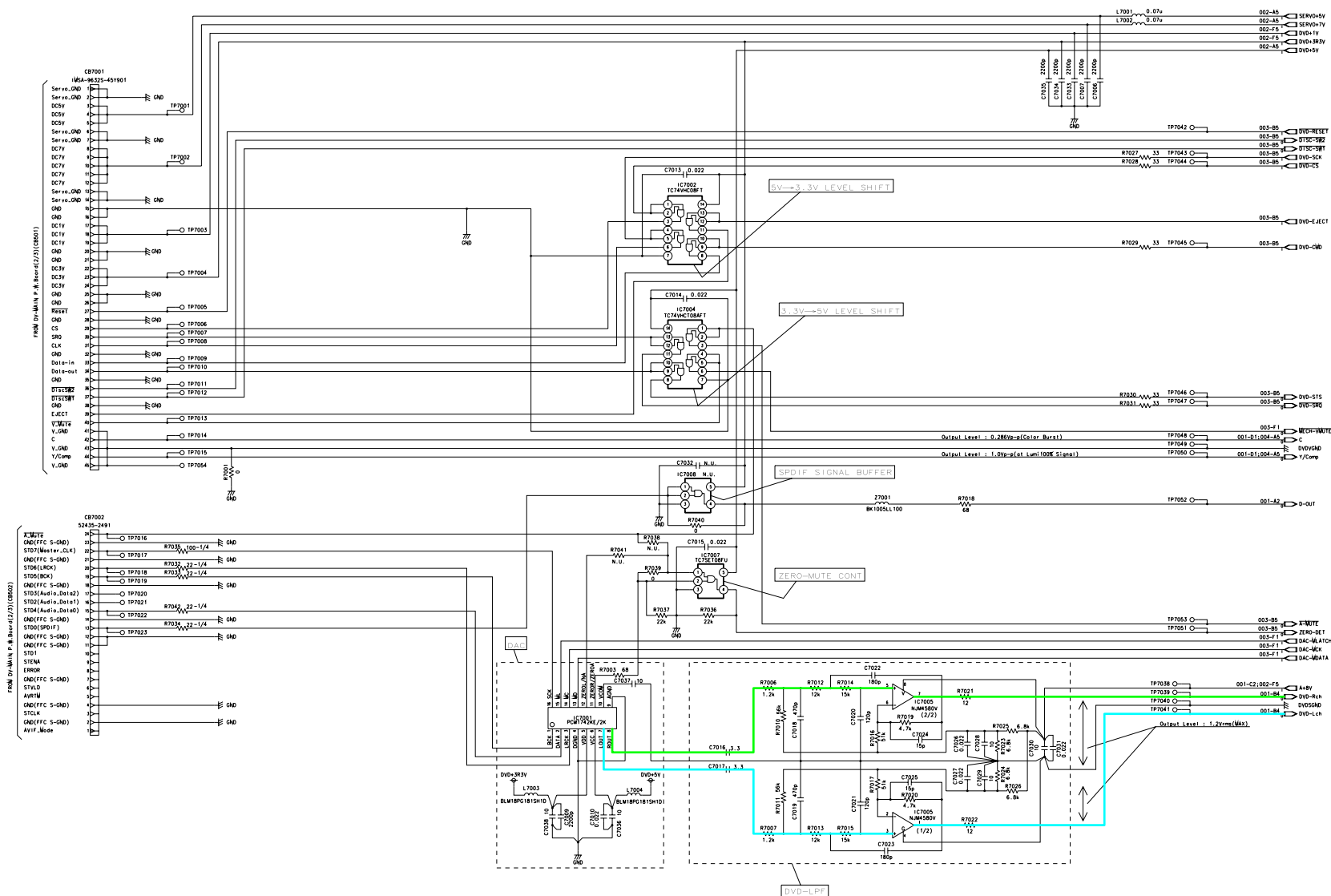
FRONT P.W.Board(2/5)
NOTE:N.U.is Not Used Parts.

FRONT P.W.Board(3/5)
NOTE:N.U.is Not Used Parts.



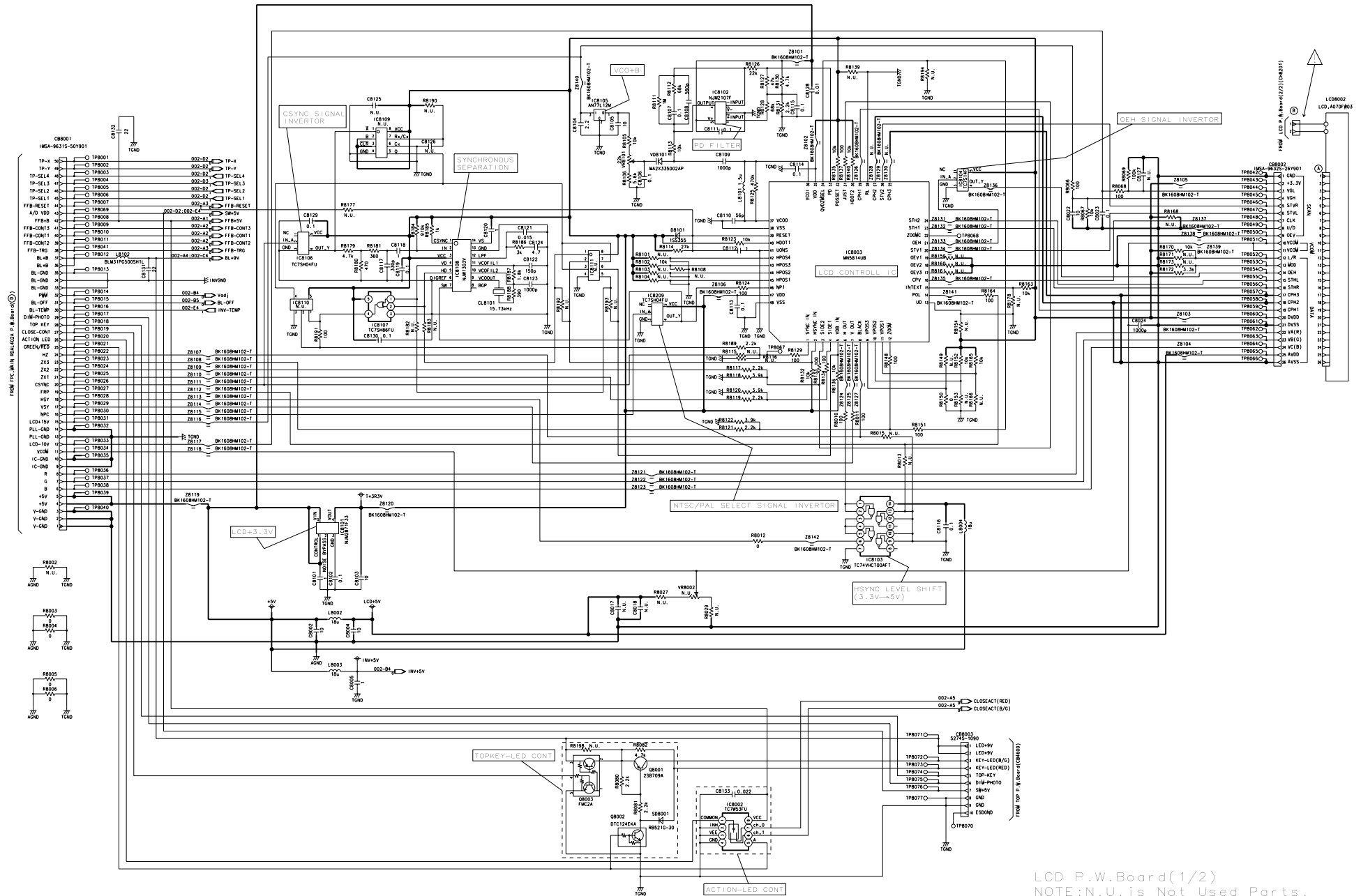
Schematic Diagram(5/18)

IVA-D310R/IVA-D310RB



Schematic Diagram(6/18)

Caution: The part marked with  is generating a high voltage, so care will be necessary when working.



Schematic Diagram(7/18)

Caution: The part marked with  is generating a high voltage, so care will be necessary when working.

IVA-D310R/IVA-D310RB

PULSE TOUCH

TOUCH PANEL

TOUCH PANEL W4030040

NOTE: #1: For IVA-D310R Model Only,
#1: For IVA-D310RB Model Only,
Others: Common.

Close Action Indicator

SEPARATELY-EXCITED
DRIVE METHOD INVERTER

LCD P.W.Board(2/2)
NOTE: N.U. is Not Used Ports.

1

2

3

4

5

1

2

3

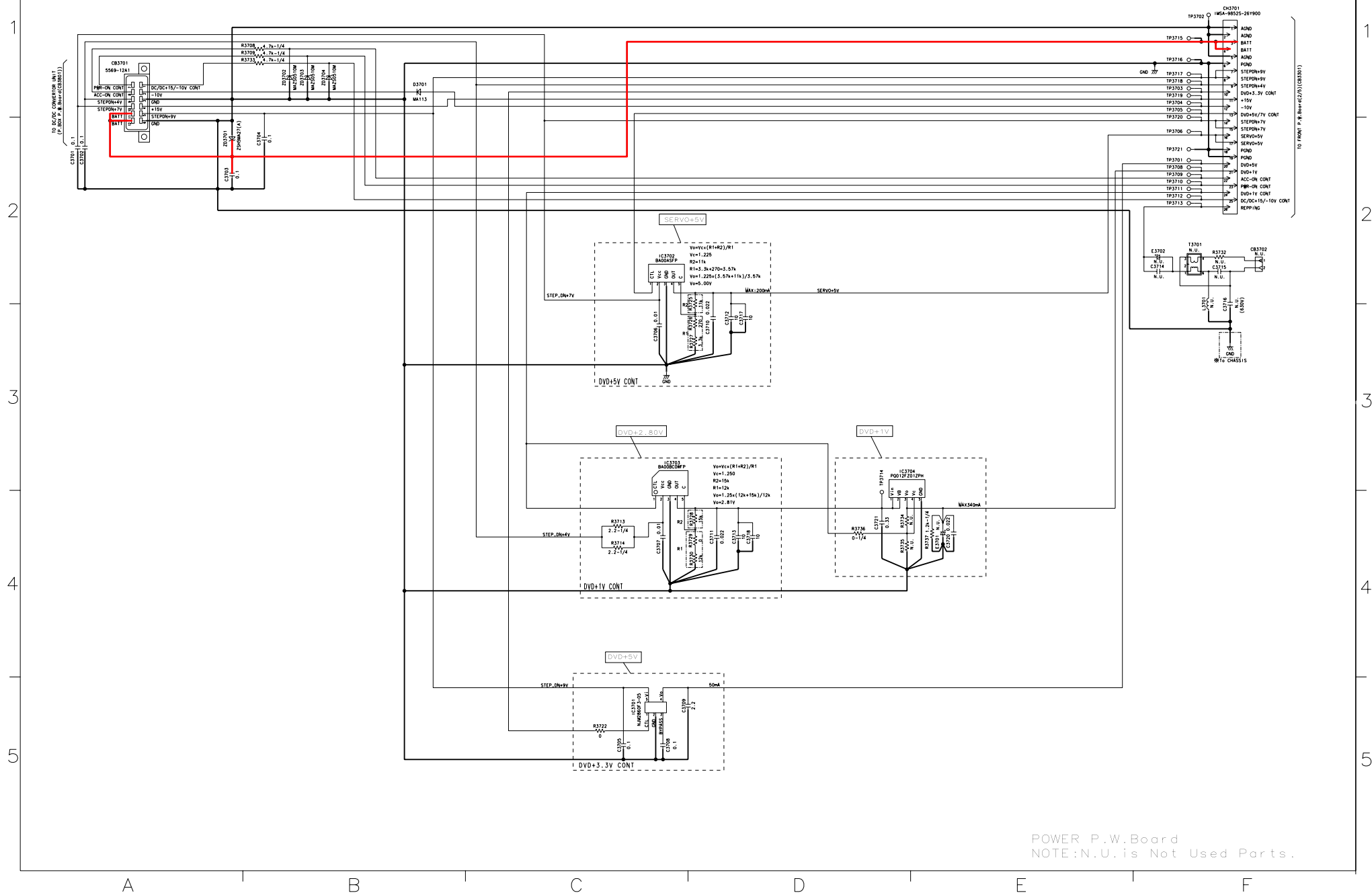
4

5

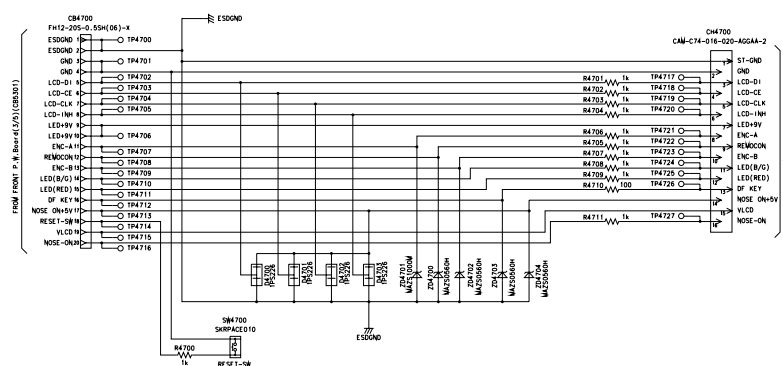


Schematic Diagram(9/18)

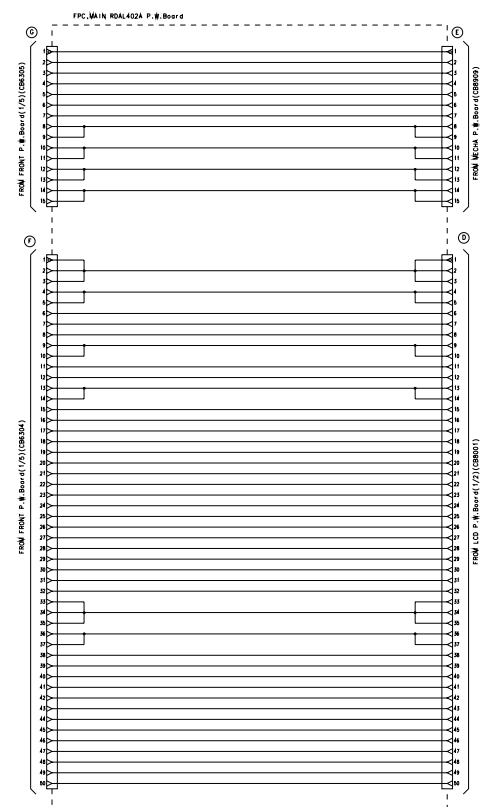
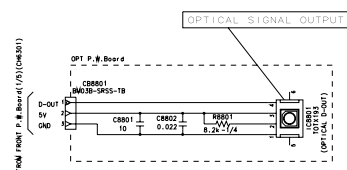
IVA-D310R/IVA-D310RB

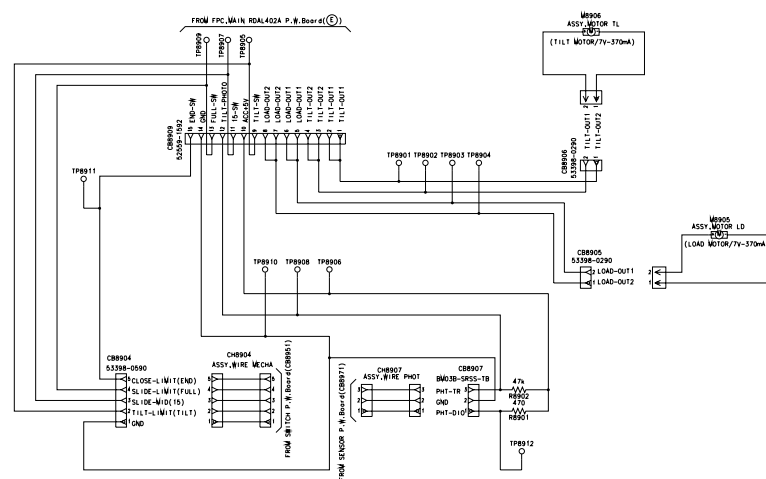


POWER P.W.Board
NOTE:N.U.is Not Used Parts.



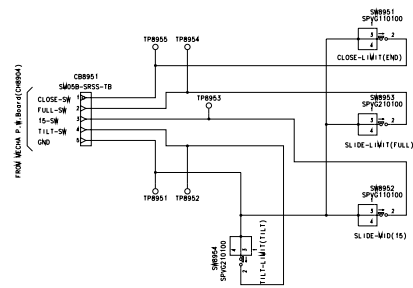
TOP P.W.Board
NOTE:N.U.is Not Used Parts.



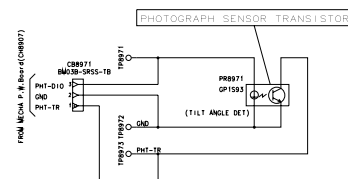


Schematic Diagram(14/18)

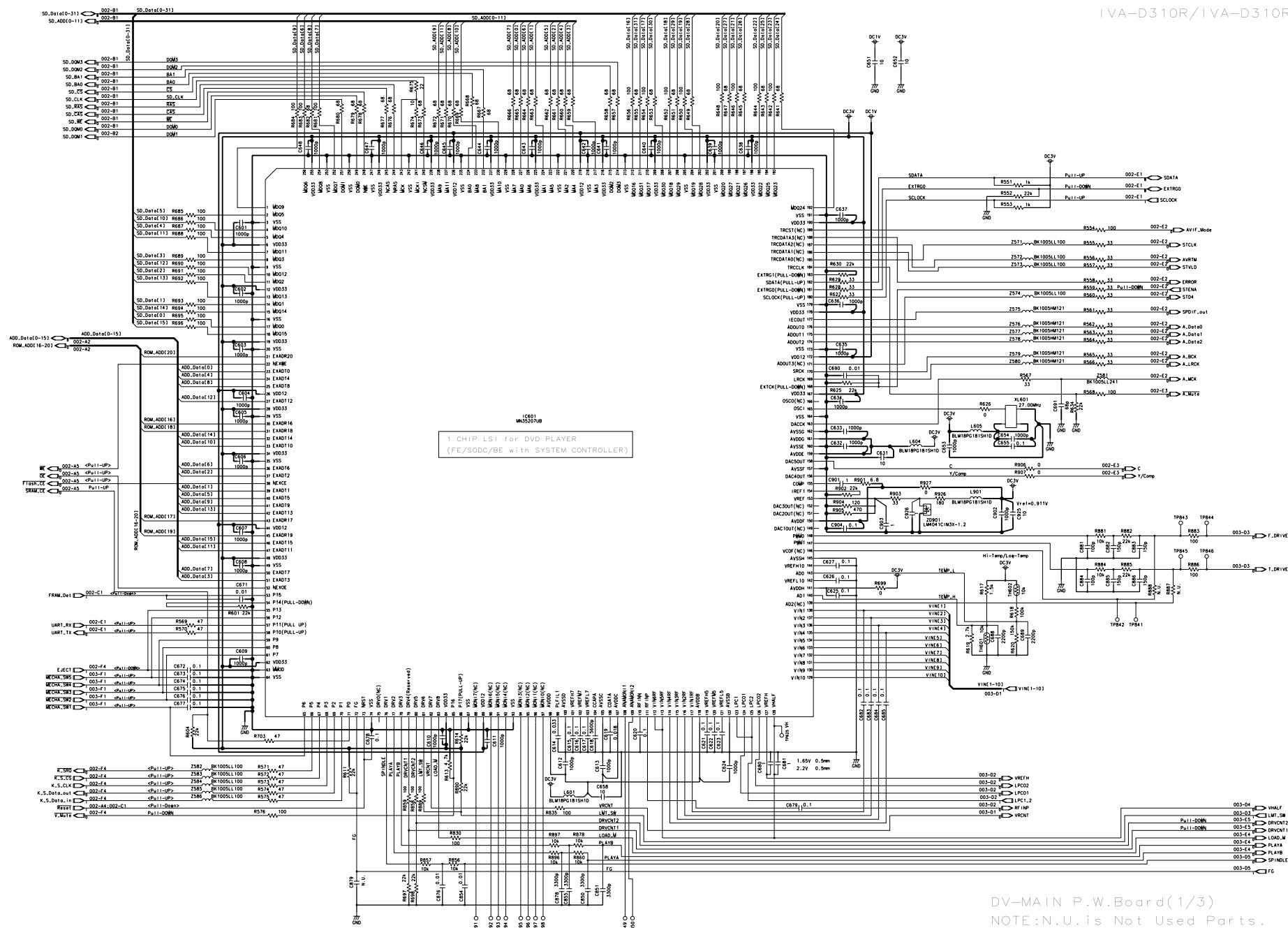
I VA-D310R/I VA-D310RB



SWITCH P.W.Board



IVA-D310R/IVA-D310RB



DV-MAIN P.W.Board(1/3)
NOTE:N.U.is Not Used Parts.

IVA-D310R/IVA-D310RB



Terminal Voltage of IC/TR

<FRONT P.W.Board>

IC3301	
1	0.00
2	-10.12
3	-4.96

IC3302	
1	5.00
2	4.00
3	0.00
4	3.35
5	1.30

IC3303			
1	0.00	11	0.00
2	0.00	12	0.00
3	0.00	13	0.00
4	3.55	14	5.00
5	5.00	15	5.00
6	2.75	16	5.00
7	0.00	17	14.23
8	0.00	18	0.00
9	0.00	19	0.00
10	0.00	20	0.00

IC3304	
1	8.95
2	8.95
3	0.00
4	5.01
5	1.25

IC3305	
1	7.02
2	0.00
3	8.95

IC3306	
1	5.00
2	8.90
3	0.00
4	5.10
5	1.30

IC3307	
1	5.00
2	0.00
3	0.00
4	0.00
5	0.00

IC3309	
1	4.92
2	8.93
3	0.00
4	5.13
5	1.25

IC3310	
1	4.96
2	8.92
3	0.00
4	8.08
5	1.26

IC4301			
1	2.58	5	5.00
2	0.00	6	2.67
3	0.00	7	0.00
4	0.00	8	5.12

IC4302	
1	5.28
2	0.00
3	1.44
4	3.52
5	5.28

IC4303			
1	1.49	5	1.57
2	4.96	6	5.11
3	PS	7	PS
4	0.00	8	0.00

IC4304							
1	6.90	17	4.99	33	1.86	49	PS
2	1.65	18	4.45	34	PS	50	1.64
3	PS	19	3.93	35	1.76	51	0
4	PS	20	0.00	36	PS	52	PS
5	-4.90	21	0.00	37	1.87	53	2.51
6	0.00	22	1.93	38	0.72	54	PS
7	0.00	23	5.00	39	2.53	55	0
8	1.12	24	5.00	40	2.53	56	0
9	2.67	25	1.90	41	2.52	57	PS
10	3.47	26	PS	42	2.52	58	PS
11	0.00	27	2.61	43	0	59	1.97
12	2.90	28	3.02	44	0	60	0.00
13	2.87	29	PS	45	5	61	2.16
14	4.44	30	1.92	46	1.64	62	2.62
15	3.26	31	1.86	47	PS	63	2.06
16	2.73	32	PS	48	1.84	64	PS

IVA-D310R/IVA-D310RB

IC4305			
1	PS	9	PS
2	5.12	10	PS
3	5.12	11	0.00
4	PS	12	5.20
5	PS	13	5.20
6	0.00	14	3.20
7	PS	15	0.00
8	0.00	16	PS

IC4306			
1	0.00	11	5.12
2	2.86	12	2.06
3	1.91	13	1.65
4	3.01	14	0
5	5.12	15	5
6	5.11	16	5
7	1.86	17	0
8	0.71	18	2.86
9	0.00	19	0
10	5.12	20	0

IC4307			
1	0	5	0
2	0	6	0
3	0	7	0
4	0	8	3.34

IC4310			
1	0	9	PS
2	PS	10	0
3	5.12	11	0
4	PS	12	PS
5	PS	13	PS
6	0	14	0
7	0	15	PS
8	0	16	5.12

IC4311			
1	1.50	9	PS
2	1.50	10	PS
3	2.80	11	3.05
4	0.00	12	5.12
5	1.66	13	5.12
6	PS	14	3
7	5.12	15	0
8	2.97	16	3

IC4312							
1	0.00	21	PS	41	PS	61	PS
2	PS	22	PS	42	0	62	PS
3	0.00	23	PS	43	0	63	PS
4	3.52	24	PS	44	0	64	PS
5	PS	25	PS	45	0	65	PS
6	PS	26	PS	46	3.52	66	PS
7	PS	27	PS	47	PS	67	PS
8	3.52	28	PS	48	PS	68	PS
9	PS	29	PS	49	PS	69	0
10	0.00	30	PS	50	PS	70	3.52
11	PS	31	0.00	51	PS	71	PS
12	0.00	32	3.52	52	PS	72	PS
13	0.00	33	3.52	53	PS	73	PS
14	0.00	34	PS	54	PS	74	PS
15	5.12	35	PS	55	0	75	PS
16	0.00	36	PS	56	3.52	76	PS
17	3.52	37	1.68	57	PS	77	0
18	PS	38	1.28	58	PS	78	0
19	0.00	39	1.28	59	PS	79	0
20	3.52	40	0.00	60	PS	80	3.52

IVA-D310R/IVA-D310RB

IC4313			
1	PS	8	PS
2	PS	9	PS
3	PS	10	PS
4	PS	11	PS
5	0.00	12	PS
6	5.00	13	PS
7	0.00	14	5.12

IC4314							
1	PS	13	0.00	25	PS	37	3.30
2	PS	14	0.00	26	PS	38	PS
3	PS	15	0.00	27	0.00	39	0.00
4	PS	16	0.00	28	PS	40	PS
5	PS	17	PS	29	PS	41	0.00
6	PS	18	PS	30	PS	42	PS
7	PS	19	PS	31	PS	43	0.00
8	PS	20	PS	32	PS	44	PS
9	0.00	21	PS	33	PS	45	0.00
10	0.00	22	PS	34	PS	46	0.00
11	3.40	23	PS	35	PS	47	3.50
12	3.40	24	PS	36	PS	48	0.00

IC4900			
1	3.20	8	0.00
2	3.20	9	0.00
3	PS	10	0.00
4	PS	11	0.00
5	PS	12	1.44
6	PS	13	2.80
7	0.00	14	3.20

IC4901			
1	0.00	9	1.60
2	PS	10	PS
3	PS	11	PS
4	PS	12	PS
5	PS	13	PS
6	PS	14	PS
7	PS	15	0.00
8	0.00	16	3.05

IC4902			
1	PS	8	PS
2	PS	9	0.00
3	0.00	10	PS
4	PS	11	PS
5	PS	12	PS
6	0.00	13	PS
7	0.00	14	3.15

IC4903			
1	PS	5	PS
2	3.05	6	0.00
3	PS	7	PS
4	0.00	8	3.05

IC4904			
1	PS	5	PS
2	5.12	6	PS
3	PS	7	PS
4	0.00	8	3.10

IC4905	
1	PS
2	PS
3	0.00
4	PS
5	3.05

IC4906	
1	5.14
2	0.00
3	1.32
4	3.07
5	5.14

IVA-D310R/IVA-D310RB

IC4909			
1	PS	5	PS
2	PS	6	3.05
3	PS	7	3.05
4	0.00	8	3.05

IC5301					
1	5.05	connect NAVI	8	5.05	
2	0.00	connect NAVI	9	0.00	
3	0.00	connect NAVI	10	5.05	
4	5.05	connect NAVI	11	0.00	
5	0.00		12	0.00	connect NAVI
6	5.05		13	5.05	connect NAVI
7	0.00		14	5.05	

IC5302									
1	5		37	0		73	PS	109	5
2	5		38	3.30		74	PS	110	5
3	0		39	5.00		75	PS	111	0
4	0		40	5.00		76	0	112	0
5	0		41	0.00		77	0	113	0
6	0	0-5	42	0.00	0-5	78	0	114	0
7	5	0-5	43	0.00	0-5	79	0	115	0
8	5		44	0.00	0-5	80	0	116	0
9	0		45	5.00		81	0	117	5
10	0		46	0.00	0-5	82	0	118	5
11	5		47	0.00	0-5	83	5	119	5
12	0		48	5.00	0-5	84	5	120	0
13	0		49	5.00		85	0	121	0
14	0		50	0.00		86	0	122	0
15	5		51	5.00		87	5	123	5
16	0		52	5.00		88	5	124	0
17	0		53	5.00		89	5	125	0
18	0		54	5.00		90	0	126	5
19	0		55	5.00		91	0	127	5
20	5		56	5.00		92	0	128	0
21	0		57	5.00	0-5	93	PS	129	0
22	5		58	5.00		94	PS	130	5
23	0		59	0.00		95	PS	131	0
24	5		60	5.00		96	5	132	5
25	5		61	5.00		97	5	133	0
26	5		62	5.00		98	5	134	0
27	5		63	4.32	0-5	99	0	135	5
28	5		64	5.12		100	5	136	0
29	5		65	0.00		101	0	137	5
30	5		66	0.00		102	0	138	5
31	5		67	0.00		103	0	139	1.01
32	5		68	5.00		104	0	140	1.91
33	0		69	5.00		105	0	141	4.35
34	0		70	PS	CLK	106	0	142	2.56
35	0		71	PS	CLK	107	5	143	5.00
36	0		72	0.00		108	5	144	0

IVA-D310R/IVA-D310RB

IC6301	
1	5.00
2	5.00
3	5.00
4	0.00
5	0.00

IC6302	
1	0
2	0
3	0
4	4.88
5	5

IC6303	
1	0
2	0
3	4.86
4	0
5	5.01

IC6304			
1	PS	5	2.56
2	PS	6	2.56
3	0.00	7	5.03
4	0.00	8	5.03

IC6305			
1	PS	5	2.56
2	PS	6	2.56
3	0.00	7	5.03
4	0.00	8	5.02

IC6306			
1	0.00	8	5.05
2	5.05	9	0.00
3	0.00	10	PS
4	5.05	11	PS
5	0.00	12	PS
6	5.05	13	5.05
7	0.00	14	5.05

IC6307			
1	2	5	PS
2	5	6	0.00
3	PS	7	5.05
4	PS	8	PS

IC6308			
1	0	14	0
2	0	15	0
3	0	16	8.92
4	0	17	8.92
5	0	18	4.44
6	0	19	0
7	0	20	4.44
8	0	21	8.92
9	0	22	0
10	0	23	0
11	0	24	0
12	0	25	0
13	0		

IC6309			
1	0	14	0
2	0	15	0
3	0	16	8.92
4	0	17	8.92
5	0	18	4.43
6	0	19	0.00
7	0	20	4.43
8	0	21	8.50
9	0	22	0
10	0	23	0
11	0	24	0
12	0	25	0
13	0		

IC6310			
1	0	8	PS
2	0	9	PS
3	0	10	PS
4	5	11	PS
5	0	12	PS
6	0	13	PS
7	0	14	5

IC7001			
1	PS	9	0.00
2	PS	10	2.54
3	PS	11	3.32
4	0.00	12	0.00
5	3.34	13	0.00
6	5.03	14	0.00
7	PS	15	5.05
8	PS	16	PS

IVA-D310R/IVA-D310RB

IC7002			
1	5.05	8	PS
2	0.00	9	PS
3	0.00	10	PS
4	5.00	11	PS
5	0.00	12	PS
6	0.00	13	PS
7	0.00	14	5.50

IC7004			
1	3.50	8	PS
2	3.50	9	PS
3	5.02	10	PS
4	3.50	11	PS
5	3.50	12	PS
6	5.02	13	PS
7	0.00	14	5.05

IC7005			
1	4.09	5	4.05
2	4.09	6	4.08
3	4.06	7	4.08
4	0.00	8	8.10

IC7007	
1	3.31
2	3.31
3	0.00
4	5.03
5	5.02

Ref. No.	E	B	C	NOTE
Q3306	-10.12	-10.12	-10.12	
Q3312	-4.95	-4.33	-4.9	
Q3313	5.03	4.35	5.02	
Q3314	0	5	0	
Q3315	6.25	7	6.97	
Q3316	0.14	4.81	0	
Q4301	PS	PS	0	
Q4302	PS	PS	0	
Q4303	1.75	6.91	1.73	
Q4307	0	4.92	0	
Q5301	0	0	5	connect NAVI
Q5302	0	0	14.26	BUZZER
Q5303	8.78	8.87	8.1	
Q5306	4.91	0	0	
Q6301	0	4.14	0	ST-REM
Q6302	5	4.39	5	
Q6303	PS	PS	PS	
Q6304	PS	PS	PS	
Q6305	PS	PS	PS	
Q6306	PS	PS	PS	
Q6307	PS	PS	PS	
Q6308	PS	PS	PS	
Q6309	PS	PS	PS	
Q6310	PS	PS	PS	
Q6311	PS	PS	PS	
Q6312	PS	PS	PS	
Q6313	PS	PS	8.09	
Q6314	PS	PS	8.09	
Q6315	PS	PS	8.09	
Q6316	PS	PS	8.09	
Q6317	PS	PS	8.09	
Q6318	0	0	2.68	TILT OPEN/CLOSE
Q6319	0	8.53	8.87	TILT OPEN/CLOSE

IVA-D310R/IVA-D310RB

Ref. No.	1	2	3	4	5
Q3302	5.03	4.94	0	0	0
Q3303	0	4.6	5.02	0	0
Q3307	0	4.96	5.03	0	5
Q3308	0	15.86	15.86	4.96	0
Q3309	NC	6.93	7.04	4.92	0
Q3310	0	5.03	5.03	5.01	0
Q4315	0	3.33	3.34	4.93	0
Q5305	0	4.97	5.02	4.91	0

[Measuring Conditions]

- 1.Power Supply Voltage : DC14.4V
- 2.Measuring Meter : Digital Multi Meter
- 3.Measuring Point Reference : Between GND
- 4.Measuring Condition : Monitor OPEN,
Screen display prohibition release

IVA-D310R/IVA-D310RB

<LCD P.W.Board>

IC8003					
1	0.33	PS	25	1.47	PS
2	3.31		26	0.1	PS
3	0		27	1.47	PS
4	0		28	0	
5	3.31		29	1.45	PS
6	3.12	PS	30	3.32	
7	3.32	PS	31	0	
8	0		32	3.04	
9	0		33	1.71	PS
10	3.03		34	0	
11	3.03		35	3.32	
12	0		36	1.71	PS
13	0		37	1.74	PS
14	1.72	PS	38	0	
15	3.31		39	3.31	
16	0.62	PS	40	3.32	
17	0	PS	41	0	
18	0.18	PS	42	0	
19	0.18	PS	43	3.02	
20	0.1	PS	44	0	
21	0.5	PS	45	0	
22	0		46	0	
23	0.11	PS	47	3.35	
24	0.1	PS	48	0	

IC8002	
1	0
2	0
3	0
4	0
5	4.98
6	4.7
7	AC
8	5.03

IC8101	
1	5.06
2	0
3	1.3
4	3.33
5	5.06

IC8102	
1	1.63
2	0
3	1.65
4	1.93
5	5.05

IC8103				
1	3.12	PS	8	5.05
2	3.12	PS	9	0
3	0.46	PS	10	0
4	0.46	PS	11	5.05
5	0.46	PS	12	0
6	4.76	PS	13	0
7	0		14	5.05

IC8104		
1	0	
2	0.5	PS
3	0	
4	2.95	PS
5	3.35	

IC8105	
1	11.67
2	0
3	15.71

IC8106		
1	0	
2	0.63	PS
3	0	
4	3.05	PS
5	3.29	

IC8107		
1	3.34	PS
2	3.16	PS
3	0	
4	0.33	PS
5	3.33	

IC8108					
1	0.38	PS	8	0.27	PS
2	1.64	PS	9	1.52	PS
3	3.33		10	3.3	
4	3.34	PS	11	3.3	
5	3.16	PS	12	1.36	
6	0		13	0	
7	0		14	1.99	

IVA-D310R/IVA-D310RB

IC8202					
1	5		17	0	
2	5.02		18	0	
3	5		19	0	
4	0		20	0	
5	0.2	PS	21	0	
6	5		22	4.86	PS
7	0		23	4.86	PS
8	4.86	PS	24	0.15	PS
9	5.02		25	0.13	PS
10	0		26	5.03	
11	4.82	PS	27	5.03	
12	4.88	PS	28	0	
13	0		29	0	
14	5.01		30	5.03	by output wave-form
15	5		31	5.03	by output wave-form
16	4.8	PS	32	0	by output wave-form

NOTE : at Pulse Touch active

IC8204			
1	0.1	5	0
2	1.41	6	0
3	0.32	7	0
4	0	8	5.13

IC8207				
1	0	11	2.6	PS
2	0.9	12	2.65	PS
3	4.95	13	2.04	
4	3.41	14	0	
5	4.95	15	2.16	PS
6	0	16	0.16	
7	2.53	17	1.3	
8	1.5	18	2.15	PS
9	1.3	19	2.65	PS
10	1.85	20	2.59	PS

IC8209	
1	0.04
2	5.01
3	0.04
4	0.04
5	3.33

	G	D	S	NOTE
Q8201	PS	PS	0	
Q8215	PS	PS	0	at Pulse Touch active

Ref. No.	E	B	C	NOTE
Q8001	0	0	0	
Q8002	0	4.98	0	
Q8202	0	0.63	0.06	
Q8203	PS	PS	PS	at Pulse Touch active
Q8204	0	0	4.95	
Q8205	PS	PS	PS	at Pulse Touch active
Q8206	PS	PS	PS	at Pulse Touch active
Q8207	PS	PS	PS	at Pulse Touch active
Q8208	PS	PS	PS	at Pulse Touch active

Q8003	
1	8.69
2	0
3	8.72
4	0
5	0

IVA-D310R/IVA-D310RB

Ref. No.	E	B	C	NOTE
Q8209	PS	PS	PS	at Pulse Touch active
Q8210	5.01	PS	PS	at Touch Panel active
Q8211	5.01	PS	PS	at Touch Panel active
Q8212	5.01	PS	PS	at Touch Panel active
Q8213	0	PS	PS	at Touch Panel active
Q8214	0	PS	PS	at Touch Panel active
Q8216	5	4.99(PS)	PS	at Pulse Touch active
Q8217	0	0.3(PS)	4.8(PS)	at Pulse Touch active
Q8293	0	4.67	0	IVA-D310R Model Only
	0	4.69	0	IVA-D310RB Model Only
Q8294	0	0	6.23	IVA-D310R Model Only

Q8218					
1	0.16		5	4.42	PS
2	2.59	PS	6	4.42	PS
3	8.7		7	4.42	PS
4	7	PS	8	4.42	PS

Q8219					
1	0.16		5	4.44	PS
2	2.6	PS	6	4.44	PS
3	8.7		7	4.44	PS
4	7	PS	8	4.44	PS

Q8220	
1	0
2	0
3	0
4	5
5	4.95
6	0

[Measuring Conditions]

- 1.Power Supply Voltage : DC14.4V
- 2.Measuring Meter : Digital Multi Meter
- 3.Measuring Point Reference : Between GND
- 4.Measuring Condition : at playing DVD,
Screen Mode-1

<DF P.W.Board>

IC4500								
1	0/PS	(*1)	17	2.27	PS	33	2.27	PS
2	4.43/0	(*2)	18	2.27	PS	34	2.27	PS
3	2.27	PS	19	2.27	PS	35	2.27	PS
4	2.27	PS	20	2.27	PS	36	2.27	PS
5	2.27	PS	21	2.27	PS	37	2.27	PS
6	2.27	PS	22	2.27	PS	38	2.27	PS
7	2.27	PS	23	2.27	PS	39	4.93	
8	2.27	PS	24	2.27	PS	40	4.5	
9	2.27	PS	25	2.27	PS	41	2.95	
10	2.27	PS	26	2.27	PS	42	1.52	
11	2.27	PS	27	2.27	PS	43	0	
12	2.27	PS	28	2.27	PS	44	3.65	PS
13	2.27	PS	29	2.27	PS	45	4.93	
14	2.27	PS	30	2.27	PS	46	4.93	
15	2.27	PS	31	2.27	PS	47	4.96	PS
16	2.27	PS	32	2.27	PS	48	4.96	PS

NOTE : *1 : usually / at KEY operation

*2 : POWER ON / POWER OFF

IC4501	
1	4.93/4.93
2	0/0
3	0/0
4	4.93/PS

NOTE : usually / at Remote-control receiving

Ref. No.	E	B	C	NOTE
Q4500	0	4.43	0	POWER ON
Q4501	0/0	0/PS	9/PS	usually / at KEY operation
Q4502	0/0	4.93/0	0/0	IVA-D310R Model Only RED select / GREEN select
Q4503	0	4.92	0	DIMMER OFF

[Measuring Conditions]

- 1.Power Supply Voltage : DC14.4V
- 2.Measuring Meter : Digital Multi Meter
- 3.Measuring Point Reference : Between GND
- 4.Measuring Condition : see each data

IVA-D310R/IVA-D310RB

<POWER P.W.Board>

IC3701	
1	4.78
2	0
3	1.28
4	5.03
5	8.9

IC3702	
1	4.97
2	6.91
3	0
4	5.02
5	1.25

IC3703	
1	4.94
2	3.69
3	0
4	2.83
5	1.27

IC3704	
1	2.82
2	2.82
3	1.23
4	4.94
5	0

[Measuring Conditions]

1.Power Supply Voltage	: DC14.4V
2.Measuring Meter	: Digital Multi Meter
3.Measuring Point Reference	: Between GND
4.Measuring Condition	: at playing DVD

<TOP P.W.Board>

IC4600		
1	0	
2	0	
3	5.05	
4	4.44	by quantity of light

Ref. No.	E	B	C	NOTE
Q4600	0	5.85	0	IVA-D310R Model Only, RED select
Q4601	0	6	0	IVA-D310R Model Only, GREEN select
	0	4.51	0	IVA-D310RB Model Only

[Measuring Conditions]

1.Power Supply Voltage	: DC14.4V
2.Measuring Meter	: Digital Multi Meter
3.Measuring Point Reference	: Between GND
4.Measuring Condition	: at playing DVD

<OPT P.W.Board>

IC8801		
1	0	
2	2.25	
3	5.01	
4	2.56	PS

[Measuring Conditions]

1.Power Supply Voltage	: DC14.4V
2.Measuring Meter	: Digital Multi Meter
3.Measuring Point Reference	: Between GND
4.Measuring Condition	: at playing DVD

IVA-D310R/IVA-D310RB

(DVD Deck Mechanism)

IC601									
1	-	53	3.3	105	0	157	0	209	3.28
2	-	54	0	106	1.7	158	0	210	-
3	0	55	3.3	107	3.3	159	3.32	211	-
4	-	56	3.3	108	2.32	160	0	212	-
5	-	57	3.3	109	1.78	161	3.26	213	0
6	3.3	58	3.3	110	1.78	162	0	214	3.28
7	-	59	3.3	111	1.78	163	1.56	215	3.28
8	-	60	3.32	112	1.62	164	0	216	3.28
9	0	61	3.3	113	1.62	165	1.36	217	-
10	-	62	3.3	114	0	166	1.76	218	0
11	-	63	0	115	0	167	3.28	219	1.12
12	3.28	64	0	116	1.6	168	0	220	-
13	-	65	3.3	117	0	169	1.6	221	-
14	-	66	3.3	118	3.32	170	1.58	222	0
15	-	67	3.3	119	1.84	171	0	223	-
16	0	68	3.3	120	1.58	172	1	224	-
17	-	69	3.3	121	1.36	173	0	225	3.34
18	-	70	0	122	0	174	0	226	-
19	3.26	71	3.28	123	0	175	0	227	-
20	0	72	3.28	124	0	176	0	228	-
21	-	73	3.3	125	0	177	3.3	229	0
22	3.28	74	0	126	0	178	3.24	230	-
23	-	75	1.6	127	2.16	179	0	231	3.28
24	-	76	1.6	128	1.6	180	3.28	232	0
25	-	77	1.6	129	2.12	181	0	233	-
26	1.02	78	1.6	130	2.12	182	3.3	234	0
27	-	79	0	131	2.14	183	0	235	0
28	3.28	80	0	132	2.14	184	0	236	1.12
29	0	81	3.28	133	2.16	185	0	237	-
30	-	82	0	134	2.14	186	0	238	-
31	-	83	1.62	135	2.16	187	0	239	3.26
32	-	84	3.28	136	2.16	188	0	240	2.82
33	-	85	3.22	137	2.16	189	0	241	1.6
34	3.28	86	3.28	138	2.16	190	3.28	242	0
35	0	87	0	139	2.16	191	0	243	1.56
36	-	88	0	140	1.48	192	-	244	3.26
37	-	89	1.02	141	3.28	193	-	245	3.26
38	3.3	90	0	142	1.12	194	-	246	0
39	-	91	0	143	1.86	195	-	247	3.24
40	-	92	0	144	2.06	196	3.28	248	3.28
41	-	93	0	145	0	197	-	249	0
42	-	94	0	146	1.1	198	-	250	3.32
43	-	95	0	147	1.6	199	-	251	-
44	1.06	96	0	148	1.58	200	-	252	0
45	-	97	0	149	0	201	0	253	-
46	-	98	3.26	150	3.28	202	3.28	254	-
47	-	99	0.9	151	0	203	-	255	3.28
48	3.28	100	0	152	0	204	-	256	-
49	0	101	2.32	153	0.9	205	0		
50	-	102	2	154	0.82	206	-		
51	-	103	1.78	155	2.26	207	-		
52	3.3	104	0	156	0	208	-		

IVA-D310R/IVA-D310RB

IC511	
1	3.21
2	3.22
3	0
4	3.21
5	3.22

IC512	
1	0
2	0
3	0
4	0
5	3.22
6	3.22
7	3.22
8	3.22

IC711			
1	0	11	0.5
2	-	12	-
3	-	13	-
4	-	14	-
5	-	15	-
6	-	16	-
7	-	17	-
8	-	18	-
9	-	19	-
10	0	20	3.3

IC712			
1	0	11	0.5
2	-	12	-
3	-	13	-
4	-	14	-
5	-	15	-
6	-	16	-
7	-	17	-
8	-	18	-
9	-	19	-
10	0	20	3.26

IC713	
1	-
2	3.22
3	0
4	-
5	3.22

IC721			
1	-	25	-
2	-	26	3.3
3	-	27	0
4	-	28	3.3
5	-	29	-
6	-	30	-
7	-	31	-
8	-	32	-
9	-	33	-
10	-	34	-
11	3.26	35	-
12	3.26	36	-
13	0	37	3.3
14	0	38	-
15	0	39	-
16	-	40	-
17	-	41	-
18	-	42	-
19	-	43	-
20	-	44	-
21	-	45	-
22	-	46	0
23	-	47	3.28
24	-	48	-

IC725	
1	-
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-
11	-
12	-
13	-
14	0
15	-
16	-
17	-
18	-
19	-
20	3.26
21	-
22	1.88
23	-
24	-
25	-
26	-
27	3.27
28	3.24

IVA-D310R/IVA-D310RB

IC731									
1	3.24	19	3.26	37	-	55	3.28	73	0
2	-	20	3.26	38	0	56	-	74	-
3	3.24	21	0	39	-	57	0	75	0
4	-	22	0	40	-	58	0	76	-
5	-	23	0	41	3.28	59	3.28	77	-
6	0	24	0	42	-	60	-	78	0
7	-	25	0	43	3.26	61	-	79	-
8	-	26	0	44	0	62	-	80	-
9	3.28	27	0	45	-	63	-	81	3.3
10	-	28	3.26	46	0	64	-	82	-
11	-	29	3.26	47	-	65	-	83	-
12	0	30	0	48	-	66	-	84	0
13	-	31	-	49	3.28	67	3.3	85	-
14	0	32	0	50	-	68	1.62	86	0
15	3.28	33	-	51	-	69	0		
16	3.26	34	-	52	0	70	0		
17	3.3	35	3.28	53	-	71	3.3		
18	3.26	36	-	54	-	72	0		

IC861									
1	5.12	12	0	23	0	34	0	45	0
2	5.12	13	0	24	1.56	35	0	46	0
3	5.12	14	0	25	0	36	0	47	0
4	5.12	15	0	26	1.56	37	0	48	0
5	5.12	16	0	27	1.6	38	0	49	1.0
6	5.12	17	0	28	1.6	39	0	50	1.04
7	5.14	18	0	29	1.6	40	0	51	7.14
8	0	19	7.14	30	7.12	41	0	52	1.58
9	0	20	7.12	31	7.12	42	0	53	1.52
10	7.2	21	3.32	32	7.12	43	0	54	5.1
11	0	22	0	33	0	44	7.1		

	E	B	C
Q801	0	0	5.0
Q802	5.0	5.0	0
Q811	0	0	5.0
Q812	5.0	5.0	0
Q831	0	0	2.7
Q832	0	0	0
Q833	0	2.7	0
Q911	1.04	0.31	0
Q921	0.67	0	0

Q810	
1	5.0
2	0
3	5.0
4	0
5	0

[Measuring Conditions]

1. Power Supply Voltage : 5.0V / 7.0V
2. Measuring Meter : Digital Oscilloscope
3. Measuring Point Reference : Between GND
4. Measuring Condition : DVD-MECH simple substance
: Power supply ON state

Description of IC Terminal

D70F3089YGJ : IC5302

No.	Symbol	I/O	Terminal Description
1	DVD-SW1	I	Disc insertion detection-1 terminal.
2	DVD-SW2	I	Disc insertion detection-2 terminal.
3	AREA1	I	AREA discrimination signal input terminal.
4	AREA2		
5	PORTGND0	-	GND terminal for Port. (connect to GND)
6	NC	-	No connect terminal.
7	DVD-CS	O	Chip select signal output terminal to DVD Mechanism. (EPF III communication)
8	DVD-RST	O	System reset signal output terminal to DVD Mechanism.
9	DVD-EJECT	O	DVD Mechanism compulsion EJECT control terminal.
10	D-MUTE IN	I	MUTE signal input terminal from DVD Mechanism.
11	V-MUTE OUT	O	Video MUTE signal output terminal.
12	OPT-MUTE	O	MUTE control terminal of built-in disc sound OPT-OUT.
13	DIMMER OUT(NC)	-	No connect terminal.
14	NC		
15	DF LED-CONT	O	LED power supply control signal output terminal. (FRONT DF side)
16	NC	-	No connect terminal.
17			
18			
19	CLOSE-CONT	O	Monitor open/close judgment control output terminal for TOP LED control.
20	B_G/R LED-CONT	O	Blue, Green/Red LED switching control terminal. (FRONT MOI side) (H : Blue or Green select, L : Red select)
21	NC	-	No connect terminal.
22	PORTVDD0	-	Power supply terminal for Port. (P40-P47, P50-P57, P60-P65, P90-P96, CLKOUT)
23	LCD CE	O	LCD Chip Enable signal output terminal to FRONT DF.
24	LCD DI	O	LCD Data signal output terminal to FRONT DF.
25	LCD CLK	O	LCD Clock signal output terminal to FRONT DF.
26	LCD INH	O	LCD INH signal output terminal to FRONT DF.
27	NOSE-PWR	O	NOSE 5V power supply control output terminal to FRONT DF.
28	NC	-	No connect terminal.
29	DVD+1V CONT	O	DVD +1V power supply control output terminal.
30	DVD+3.3V CONT	O	DVD +3.3V power supply control output terminal.
31	DVD+5V CONT	O	DVD servo system +5V power supply control output terminal.
32	DVD+7V CONT	O	DVD servo system +7V power supply control output terminal.
33	NC	-	No connect terminal.
34	EEP-SDA(NC)		
35	EEP-SCL(NC)		
36	NC(CLKOUT)		
37	GND0	-	GND connect terminal.
38	CPUREG	-	Capacitor connect terminal.
39	VDD0	-	Power supply terminal. (connect to VDD+5V)
40	RESET	I	System Reset signal input terminal.
41	MODE/VPP	-	Programing power supply terminal.
42	NC(SI)	-	No connect terminal.
43	NC(SO)		
44	NC(SCLK)		
45	BAT-DET	I	Compulsion stand-by detection input terminal.

IVA-D310R/IVA-D310RB

No.	Symbol	I/O	Terminal Description
46	DVD-ST5	I	Serial data (status) signal input terminal from DVD Mechanism. (EPF III communication)
47	DVD-CMD	O	Serial data (command) signal output terminal to DVD Mechanism. (EPF III communication)
48	DVD-SCK	O	Serial communication synchronous clock output terminal to DVD Mechanism. (EPF III communication)
49	ACC-ON CONT	O	ACC ON power supply control output terminal.
50	BUZZER	O	BUZZER signal output terminal.
51	PWR-ON CONT	O	DVD system PWR-ON power supply control output terminal.
52	LCD AV+5V CONT	O	LCD VISUAL 5V power supply control output terminal.
53	AV+8V CONT	O	VISUAL BUFF system 8V power supply control output terminal.
54	AV+7V/5V CONT	O	AV +7V/+5V power supply control output terminal.
55	AV-5V CONT	O	AV -5V power supply control output terminal.
56	DC/DC+15V/-10V CONT	O	DC/DC +15V/-10V power supply control output terminal.
57	IS-FIN	I	FRAME-IN signal terminal for IS-BUS communication.
58	BL+9V CONT(NC)	-	No connect terminal.
59	FFB-CONT1	O	Force feedback control signal-1 output terminal.
60	PORTVDD1	-	Power supply terminal for Port. (P00-P03, P10-P17, P30-P37, P100-P107, P110-P117) (connect to VDD+5V)
61	DF B/G DIMMER	O	Blue/Green LED control PWM output terminal. (FRONT DF side)
62	MTR-3	O	Motor control-3 terminal.
63	REMOCON IN	I	Remote Control signal input terminal.
64	MTR-4	O	Motor control-4 terminal.
65	DF RED DIMMER (#1)	O	Red LED control PWM output terminal. (FRONT DF side)
	NC (\$1)	-	No connect terminal.
66	R.REM-IN	I	Rear Remote Control input terminal.
67	FFB-CONT2	O	Force feedback control signal-2 output terminal.
68	CLOSE ACT LED	O	Action LED control signal (PWM) output terminal. (FRONT MOI side)
69	SUB-STBY	I	Stand-by signal input terminal from MAIN u-COM.
70	SUB CLOCK	-	Crystal connect terminal for sub clock OSC.
71			
72	GND2	-	GND connect terminal.
73	CLOCK	-	Crystal connect terminal for main clock OSC.
74			
75	MNI(NC)	-	No connect terminal.
76	BL-PWM	O	PWM signal output terminal for backlight lighting adjustment.
77	FFB-CONT3	O	Force feedback control signal-3 output terminal.
78	DIMMER-IN (PULL-DOWN)	-	Pull-down connect terminal.
79	VLCD-CONT	O	LCD brightness power supply control output terminal (PWM). (FRONT DF side)
80	ZX3	O	Screen mode control signal output terminal to timing control IC.
81	ZX2		
82	ZX1		
83	V-MUTE IN	I	Visual MUTE signal input terminal from DVD Mechanism.
84	DAC-M LATCH	O	Latch control output terminal to DAC.
85	DAC-M DATA	O	Control data output terminal to DAC.
86	DAC-M CLK	O	Control clock output terminal to DAC.
87	OSD-RESET	O	RESET signal output terminal to OSD/Flash Memory.
88	N/P-SEL	O	NTSC/PAL switching signal output terminal. (H : NTSC, L : PAL)
89	REM-SEL	O	Remote Control signal output control terminal.
90	Y/COMP-SEL	O	Brightness signal / composite signal switching signal output terminal. (H : Y, L : Composite)

NOTE : #1 : For IVA-D310R Model Only, \$1 : For IVA-D310RB Model Only, Others : Common.

IVA-D310R/IVA-D310RB

No.	Symbol	I/O	Terminal Description
91	SYNC-SEL	O	Synchronous signal switching signal output terminal. (H : NAVI side)
92	PORTGND1	-	GND terminal for Port. (connect to GND)
93	OSD-SCLK	O	Clock signal output terminal to OSD.
94	OSD-CS	O	Chip enable signal output terminal to OSD.
95	OSD-SOUT	O	Serial data output terminal to OSD.
96	DVD-SRQ	I	Status request signal input terminal from DVD Mechanism. (EPF III communication)
97	RGB-CLK	O	Clock signal output terminal to RGB decoder.
98	RGB-CS	O	Chip enable signal output terminal to RGB decoder.
99	RGB-DO	O	Serial data output terminal to RGB decoder.
100	VGL-CONT	O	LCD power supply -10V output control signal output terminal.
101	VGH-CONT	O	LCD power supply +15V output control signal output terminal.
102	PORTVDD2	-	Power supply terminal for Port. (P04-P07, P20-P27, P120-P127, P130-P133, P140-P147, P150-P157) (connect to VDD+5V)
103	TILT-PHOTO	I	TILT-PHOTO pulse signal (Monitor angle) input terminal.
104	15-SW	I	Active NOSE position/condition detection SW signal input terminal.
105	END-SW		
106	FULL-SW		
107	IS-RXD	I	RX signal terminal for IS-BUS communication.
108	IS-TXD	O	TX signal terminal for IS-BUS communication.
109	IS-FOUT	O	FRAME-OUT signal terminal for IS-BUS communication.
110	TILT-SW	I	Active NOSE position/condition detection SW signal input terminal.
111	TER-SI	I	Serial input terminal for connecting terminal.
112	TER-SO	O	Serial output terminal for connecting terminal.
113	TER-SCL	O	Serial clock terminal for connecting terminal.
114	BL-OFF	O	Backlight power supply control signal output terminal. (H : ON, L : OFF)
115	ENC-B	I	Rotary Encoder signal input terminal.
116	ENC-A		
117	NAVI-RXD	I	RX signal terminal for UART communication to NAVI. (NAVI side : EXTJ (as usual DISP CONT))
118	NAVI-TXD	O	TX signal terminal for UART communication to NAVI. (NAVI side : EXRX (as usual WIDE/NORM))
119	NAVI-CONT	I	NAVI communication error recovery deal terminal. (inputted the same signal as NAVI-RXD)
120	TP-SEL4	O	Touch Panel signal terminal.
121	TP-SEL3		
122	TP-SEL2		
123	TP-SEL1		
124	FFB-TRG	O	Force feedback trigger signal output terminal.
125	ZERO-DET IN	I	Audio MUTE signal input terminal from DAC.
126	(BL-CANSEL)	I	Compulsion backlight lighting control terminal. (H : lighting, L : usually) (for design verification)
127	FFB RESET	O	IC RESET signal output terminal for force feedback.
128	VDD1	-	Power supply terminal. (P170-P176)
129	MTR-LVL1	O	Motor drive voltage control signal output terminal.
130	MTR-1	O	Motor control-1 terminal.
131	GND1	-	GND connect terminal.
132	MTR-2	O	Motor control-2 terminal.
133	NC	-	No connect terminal.
134			
135	TP-X	I	Touch Panel signal terminal.
136	TP-Y		

IVA-D310R/IVA-D310RB

No.	Symbol	I/O	Terminal Description
137	DF KEY	I	A/D system Key input terminal. (FRONT DF side) (R.Encoder Push, SOURCE, DN, UP, EJECT)
138	TOP KEY	I	A/D system Key input terminal. (FRONT MOI side) (MUTE, BAND, FLAT/TIME, OPEN)
139	DVD-TEMP	I	DVD Mechanism temperature detection terminal.
140	BL-TEMP	I	Backlight temperature detection terminal.
141	DIM-PHOTO	I	PHOTO Sensor terminal for auto DIMMER.
142	NOSE ON	I	FRONT DF NOSE detection terminal.
143	ADCVDD	-	Power supply terminal for A/D Converter.
144	ADCGND	-	GND terminal for A/D Converter.

MN35207UB : IC601 (DV37M050)

No.	Symbol	I/O	Terminal Description
1	MDQ9	I/O	SDRAM data 9 terminal.
2	MDQ5	I/O	SDRAM data 5 terminal.
3	VSS	-	GND terminal.
4	MDQ10	I/O	SDRAM data 10 terminal.
5	MDQ4	I/O	SDRAM data 4 terminal.
6	VDD33	-	I/O power supply terminal.
7	MDQ11	I/O	SDRAM data 11 terminal.
8	MDQ3	I/O	SDRAM data 3 terminal.
9	VSS	-	GND terminal.
10	MDQ12	I/O	SDRAM data 12 terminal.
11	MDQ2	I/O	SDRAM data 2 terminal.
12	VDD33	-	I/O power supply terminal.
13	MDQ13	I/O	SDRAM data 13 terminal.
14	MDQ1	I/O	SDRAM data 1 terminal.
15	MDQ14	I/O	SDRAM data 14 terminal.
16	VSS	-	GND terminal.
17	MDQ0	I/O	SDRAM data 0 terminal.
18	MDQ15	I/O	SDRAM data 15 terminal.
19	VDD33	-	I/O power supply terminal.
20	VSS	-	GND terminal.
21	EXADR20	I/O	External memory address 20 terminal.
22	NEXWE	O	External memory write enable output terminal.
23	EXADT0	I/O	External memory address data 0 terminal.
24	EXADT4	I/O	External memory address data 4 terminal.
25	EXADT8	I/O	External memory address data 8 terminal.
26	VDD12	-	Logic power supply terminal.
27	EXADT12	I/O	External memory address data 12 terminal.
28	VDD33	-	I/O power supply terminal.
29	VSS	-	GND terminal.
30	EXADR16	I/O	External memory address 16 terminal.
31	EXADR18	I/O	External memory address 18 terminal.
32	EXADT14	I/O	External memory address data 14 terminal.
33	EXADT10	I/O	External memory address data 10 terminal.
34	VDD33	-	I/O power supply terminal.
35	VSS	-	GND terminal.
36	EXADT6	I/O	External memory address data 6 terminal.
37	EXADT2	I/O	External memory address data 2 terminal.
38	NEXCE	O	External memory chip select output terminal.
39	EXADT1	I/O	External memory address data 1 terminal.
40	EXADT5	I/O	External memory address data 5 terminal.
41	EXADT9	I/O	External memory address data 9 terminal.
42	EXADT13	I/O	External memory address data 13 terminal.
43	EXADR17	I/O	External memory address 17 terminal.
44	VDD12	-	Logic power supply terminal.
45	EXADR19	I/O	External memory address 19 terminal.
46	EXADT15	I/O	External memory address data 15 terminal.
47	EXADT11	I/O	External memory address data 11 terminal.

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No.	Symbol	I/O	Terminal Description
48	VDD33	-	I/O power supply terminal.
49	VSS	-	GND terminal.
50	EXADT7	I/O	External memory address data 7 terminal.
51	EXADT3	I/O	External memory address data 3 terminal.
52	NEXOE	O	External memory output enable terminal.
53	P15	I	FRAME detection input terminal.
54	P14(PULL-DOWN)	-	Pull-down connect terminal.
55	P13	I	EJECT input terminal.
56	P12	I	MECHA_SW5 input terminal.
57	P11(PULL-UP)	-	Pull-up connect terminal.
58	P10(PULL-UP)		
59	P9	I	MECHA_SW4 input terminal.
60	P8	I	MECHA_SW3 input terminal.
61	P7	I	MECHA_SW2 input terminal.
62	VDD33	-	I/O power supply terminal.
63	MMOD	I	Test mode setting terminal.
64	VSS	-	GND terminal.
65	P6	I	MECHA_SW1 input terminal.
66	P5	O	K_SRQ output terminal.
67	P4	I	K_S_CS input terminal.
68	P3	I	K_S_CLK input terminal.
69	P2	O	K_S_Data output terminal.
70	P1	I	K_S_Data input terminal.
71	P0	O	SRAM chip select output terminal.
72	FG	I	Motor Frequency Generator input terminal.
73	NRST	I	Master reset input terminal.
74	VSS	-	GND terminal.
75	DRV0(NC)	-	No connect terminal.
76	DRV1	O	Spindle driver control output terminal.
77	DRV2	O	Sled motor driver-A output terminal.
78	DRV3	O	Sled motor driver-B output terminal.
79	DRV4(Reserved)	O	Driver logic control output-1 terminal.
80	DRV5	O	Driver logic control output-2 terminal.
81	DRV6	I	LIMIT SW input terminal.
82	DRV7	O	VR control output terminal.
83	DRV8	O	Loading driver output terminal.
84	VDD33	-	I/O power supply terminal.
85	P16	O	V_Mute output terminal.
86	P17(PULL-UP)	-	Pull-up connect terminal.
87	VSS	-	GND terminal.
88	MONI7(NC)	-	No connect terminal.
89	VDD12	-	Logic power supply terminal.
90	MONI6(NC)	-	No connect terminal.
91	MONI5(NC)		
92	MONI4(NC)		
93	VSS	-	GND terminal.
94	MONI3(NC)	-	No connect terminal.
95	MONI2(NC)		

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No.	Symbol	I/O	Terminal Description
96	MONI1(NC)	-	No connect terminal.
97	MONI0(NC)		
98	AVDDD	-	Analog power supply terminal.
99	PLFIL1	O	Capacitor connect terminal for DRCVCO.
100	AVSSD	-	Analog GND terminal.
101	VREFH7	O	ADC reference voltage terminal for DRC. (TOP)
102	VREFM7	O	ADC reference voltage terminal for DRC. (MDL)
103	VREFL7	O	ADC reference voltage terminal for DRC. (BTM)
104	CCAPA	O	Capacitor connect terminal for INLINE CAPA.
105	AVSSC	-	Analog GND terminal.
106	CDATA	O	Capacitor connect terminal for INLINE DATA.
107	AVDDC	-	Analog power supply terminal.
108	ANAMONI1	O	Internal analog monitor 1 terminal.
109	ANAMONI2	O	Internal analog monitor 2 terminal.
110	RFINN	I	External RF input (-) terminal.
111	RFINP	I	External RF input (+) terminal.
112	VIN6RF	I	RF input 6 terminal.
113	VIN5RF	I	RF input 5 terminal.
114	VIN4RF	I	RF input 4 terminal.
115	VIN3RF	I	RF input 3 terminal.
116	VIN2RF	I	RF input 2 terminal.
117	VIN1RF	I	RF input 1 terminal.
118	AVDDB	-	Analog power supply terminal.
119	VREFH5	I	5 bit AD reference voltage H terminal
120	VREFM5	I	5 bit AD reference voltage M terminal
121	VREFL5	I	5 bit AD reference voltage L terminal
122	AVSSB	-	Analog GND terminal.
123	LPC1	I	DVD LPC input terminal.
124	LPCO1	O	DVD LPC output terminal.
125	LPC2	I	CD LPC input terminal.
126	LPCO2	O	CD LPC output terminal.
127	VREFH	O	Decoupling terminal of reference voltage 2.20V. / Reference power supply terminal to Pickup.
128	VHALF	O	Decoupling terminal of reference voltage 1.65V.
129	VIN10	I	CD head input terminal.
130	VIN9		
131	VIN8		
132	VIN7	I	DVD head input terminal.
133	VIN6		
134	VIN5		
135	VIN4	I	DVD head input terminal.
136	VIN3		
137	VIN2		
138	VIN1		
139	AD2(NC)	-	No connect terminal.
140	AD1	I	TEMP_H input terminal.
141	AVDDH	-	Analog power supply terminal.
142	VREFL10	O	AD self bias reference terminal. (Low side)
143	AD0	I	TEMP_L input terminal.

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No.	Symbol	I/O	Terminal Description
144	VREFH10	O	AD self bias reference terminal. (Hi side)
145	AVSSH	-	Analog GND terminal.
146	VCOF(NC)	-	No connect terminal.
147	PWM1	O	Tracking drive output terminal.
148	PWM0	O	Focus drive output terminal.
149	DAC1OUT(NC)	-	No connect terminal.
150	AVDDF	-	Power supply terminal for DAC.
151	DAC2OUT(NC)	-	No connect terminal.
152	DAC3OUT(NC)		
153	VREF	I	Internal DAC reference voltage terminal.
154	IREF1	I	Resistor connect terminal for internal DAC bias current setup.
155	COMP	I	Capacitor connect terminal for internal DAC stable.
156	DAC4OUT	O	Y(brightness) / Comp(composite) analog signal terminal.
157	AVSSF	-	GND terminal for DAC.
158	DAC5OUT	O	C(color) analog signal terminal.
159	AVDDE	-	Power supply terminal for PLL.
160	AVSSE	-	GND terminal for PLL.
161	AVDDG	-	Power supply terminal for PLL.
162	AVSSG	-	GND terminal for PLL.
163	DACCK	O	Master clock output terminal.
164	VSS	-	GND terminal.
165	OSC1	I	OSC input terminal. (27MHz)
166	OSC0(NC)	-	No connect terminal.
167	VDD33	-	I/O power supply terminal.
168	EXTCK(PULL-DOWN)	-	Pull-down connect terminal.
169	LRCK	O	LR channel clock output terminal.
170	SRCK	O	Bit clock output terminal.
171	ADOUT3(NC)	-	No connect terminal.
172	VDD12	-	Logic power supply terminal.
173	VSS	-	GND terminal.
174	ADOUT2(NC)	-	No connect terminal.
175	ADOUT1(NC)		
176	ADOUT0	O	Audio Data 0 output terminal.
177	IECOUT	O	SPDIF output terminal.
178	VDD33	-	I/O power supply terminal.
179	VSS	-	GND terminal.
180	SCLOCK(PULL-UP)	-	Pull-up connect terminal.
181	EXTRG0(PULL-DOWN)	-	Pull-down connect terminal.
182	SDATA(PULL-UP)	-	Pull-up connect terminal.
183	EXTRG1(PULL-DOWN)	-	Pull-down connect terminal.
184	TRCCLK	O	A_Mute output terminal.
185	TRCDATA0(NC)	-	No connect terminal.
186	TRCDATA1(NC)		
187	TRCDATA2(NC)		
188	TRCDATA3(NC)		
189	TRCST(NC)		
190	VDD33	-	I/O power supply terminal.
191	VSS	-	GND terminal.

IVA-D310R/IVA-D310RB

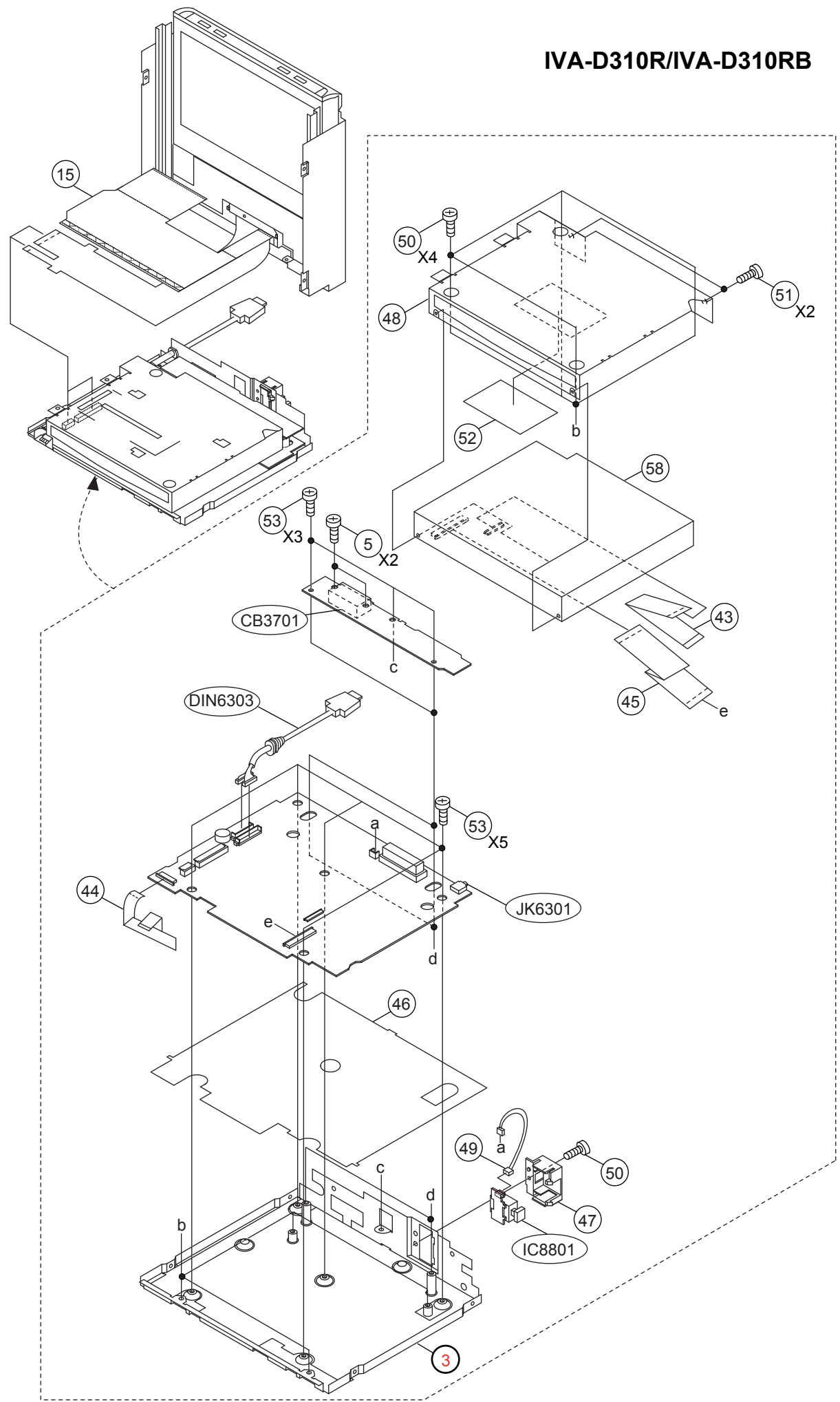
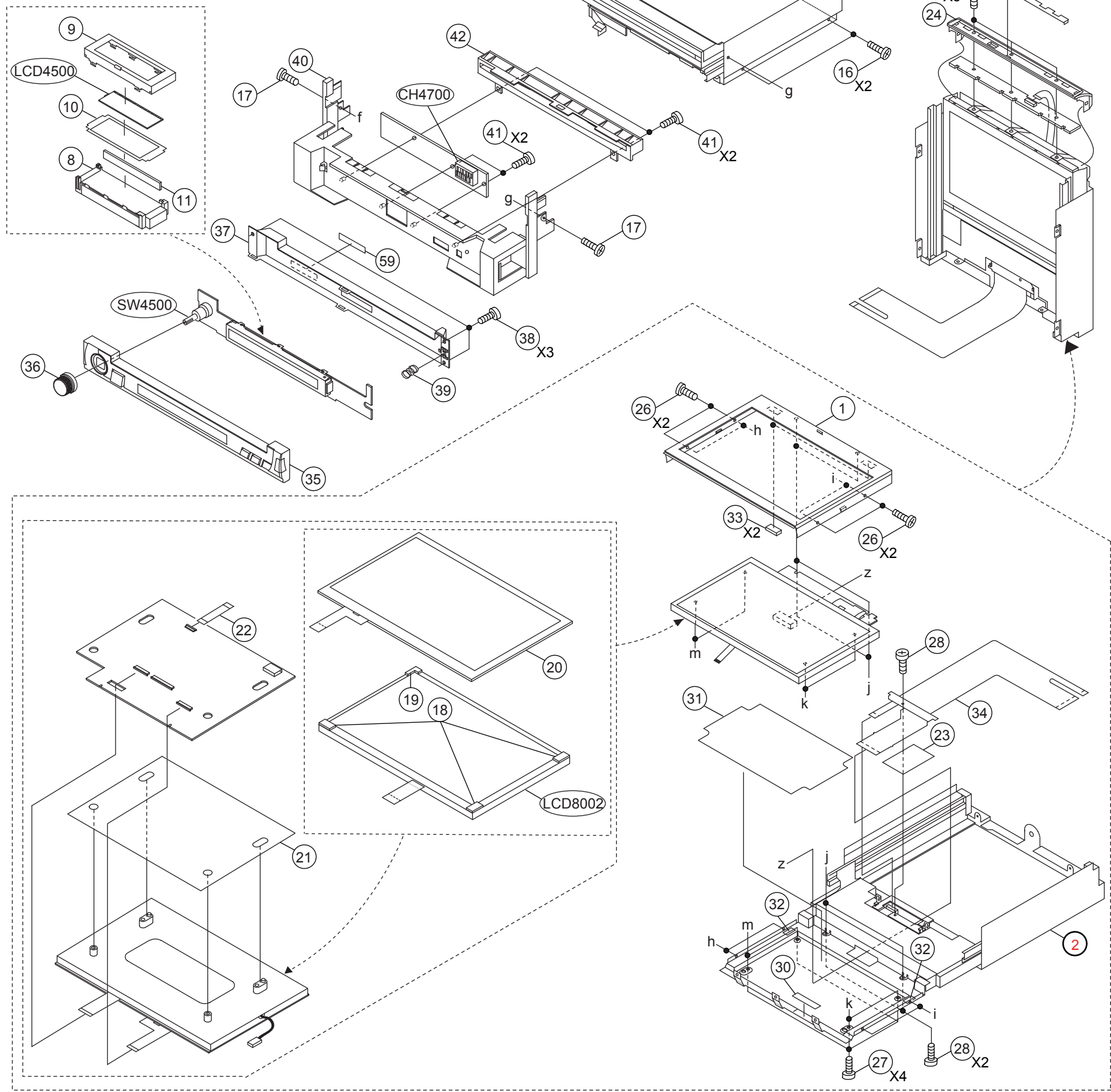
No.	Symbol	I/O	Terminal Description
192	MDQ24	I/O	SDRAM data 24 terminal.
193	MDQ23	I/O	SDRAM data 23 terminal.
194	MDQ25	I/O	SDRAM data 25 terminal.
195	MDQ22	I/O	SDRAM data 22 terminal.
196	VDD33	-	I/O power supply terminal.
197	MDQ26	I/O	SDRAM data 26 terminal.
198	MDQ21	I/O	SDRAM data 21 terminal.
199	MDQ27	I/O	SDRAM data 27 terminal.
200	MDQ20	I/O	SDRAM data 20 terminal.
201	VSS	-	GND terminal.
202	VDD33	-	I/O power supply terminal.
203	MDQ28	I/O	SDRAM data 28 terminal.
204	MDQ19	I/O	SDRAM data 19 terminal.
205	VSS	-	GND terminal.
206	MDQ29	I/O	SDRAM data 29 terminal.
207	MDQ18	I/O	SDRAM data 18 terminal.
208	MDQ30	I/O	SDRAM data 30 terminal.
209	VDD33	-	I/O power supply terminal.
210	MDQ17	I/O	SDRAM data 17 terminal.
211	MDQ31	I/O	SDRAM data 31 terminal.
212	MDQ16	I/O	SDRAM data 16 terminal.
213	VSS	-	GND terminal.
214	DQM3	O	SDRAM data mask 3 terminal.
215	DQM2	O	SDRAM data mask 2 terminal.
216	VDD33	-	I/O power supply terminal.
217	MA3	O	SDRAM address 3 terminal.
218	VSS	-	GND terminal.
219	VDD12	-	Logic power supply terminal.
220	MA4	O	SDRAM address 4 terminal.
221	MA2	O	SDRAM address 2 terminal.
222	VSS	-	GND terminal.
223	MA5	O	SDRAM address 5 terminal.
224	MA1	O	SDRAM address 1 terminal.
225	VDD33	-	I/O power supply terminal.
226	MA6	O	SDRAM address 6 terminal.
227	MA0	O	SDRAM address 0 terminal.
228	MA7	I	SDRAM address 7 terminal.
229	VSS	-	GND terminal.
230	MA10	O	SDRAM address 10 terminal.
231	VDD33	-	I/O power supply terminal.
232	BA1	O	SDRAM bank address 1 terminal.
233	MA8	I/O	SDRAM address 8 terminal.
234	BA0	O	SDRAM bank address 0 terminal.
235	VSS	-	GND terminal.
236	VDD12	-	Logic power supply terminal.
237	MA11	O	SDRAM address 11 terminal.
238	MA9	O	SDRAM address 9 terminal.
239	VDD33	-	I/O power supply terminal.

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No.	Symbol	I/O	Terminal Description
240	NCSM	O	SDRAM chip select terminal.
241	MCKI	I	Clock input terminal from SDRAM.
242	VSS	-	GND terminal.
243	MCK	O	Clock output terminal to SDRAM.
244	NRAS	O	SDRAM row address strobe terminal.
245	NCAS	O	SDRAM column address strobe terminal.
246	VDD33	-	I/O power supply terminal.
247	VSS	-	GND terminal.
248	NWE	O	SDRAM write enable terminal.
249	DQM0	O	SDRAM data mask 0 terminal.
250	VSS	-	GND terminal.
251	DQM1	O	SDRAM data mask 1 terminal.
252	MDQ7	I/O	SDRAM data 7 terminal.
253	VSS	-	GND terminal.
254	MDQ8	I/O	SDRAM data 8 terminal.
255	VDD33	-	I/O power supply terminal.
256	MDQ6	I/O	SDRAM data 6 terminal.

Exploded View (Cabinet)(1/2)
(Monitor Unit)

IVA-D310R/IVA-D310RB



(Monitor Unit)

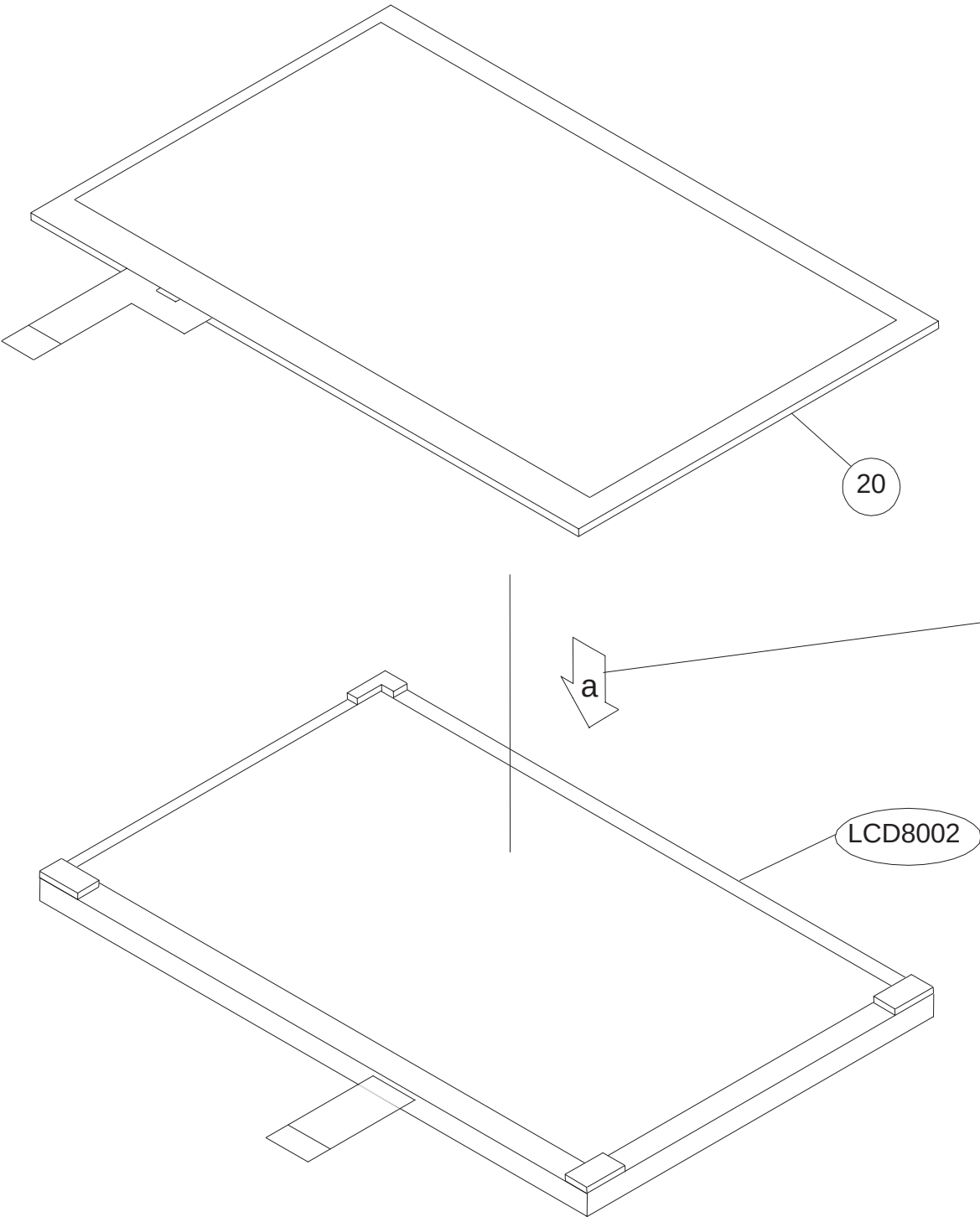
.....point of GREASE applied.

(A)	GREASE, G PASTE (11S42419J19)
(B)	GREASE, G-1017 (11T65588Y01)
(C)	GREASE, G-8007 (11S41558Y01)

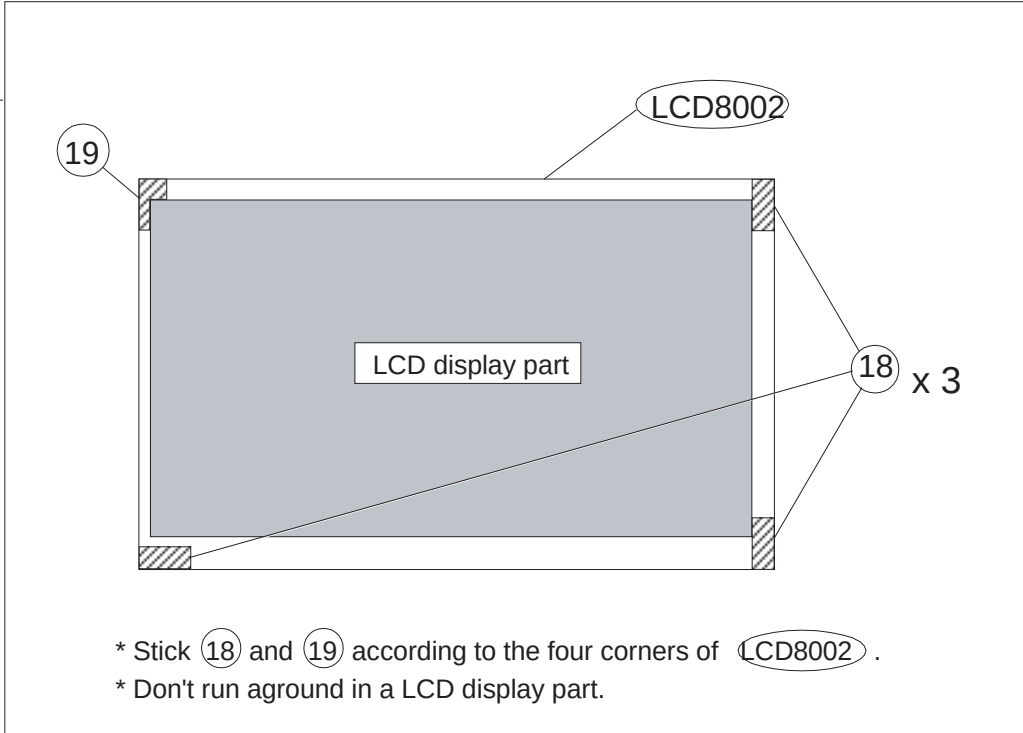
About LCD panel change

* touch panel / LCD panel handling notes

- 1. Impossible external force, such as one-point concentration, does not add to the panel surface.
- 2. In case you deal with it, hold and deal with panel edge as much as possible.
- 3. Deal with it so that there are not garbage, a crack, dirt, etc., and be sure to check at each process.
- 4. They are the thing of finger sack use, and a finger sack (11T75473W01-05) in a clean booth.



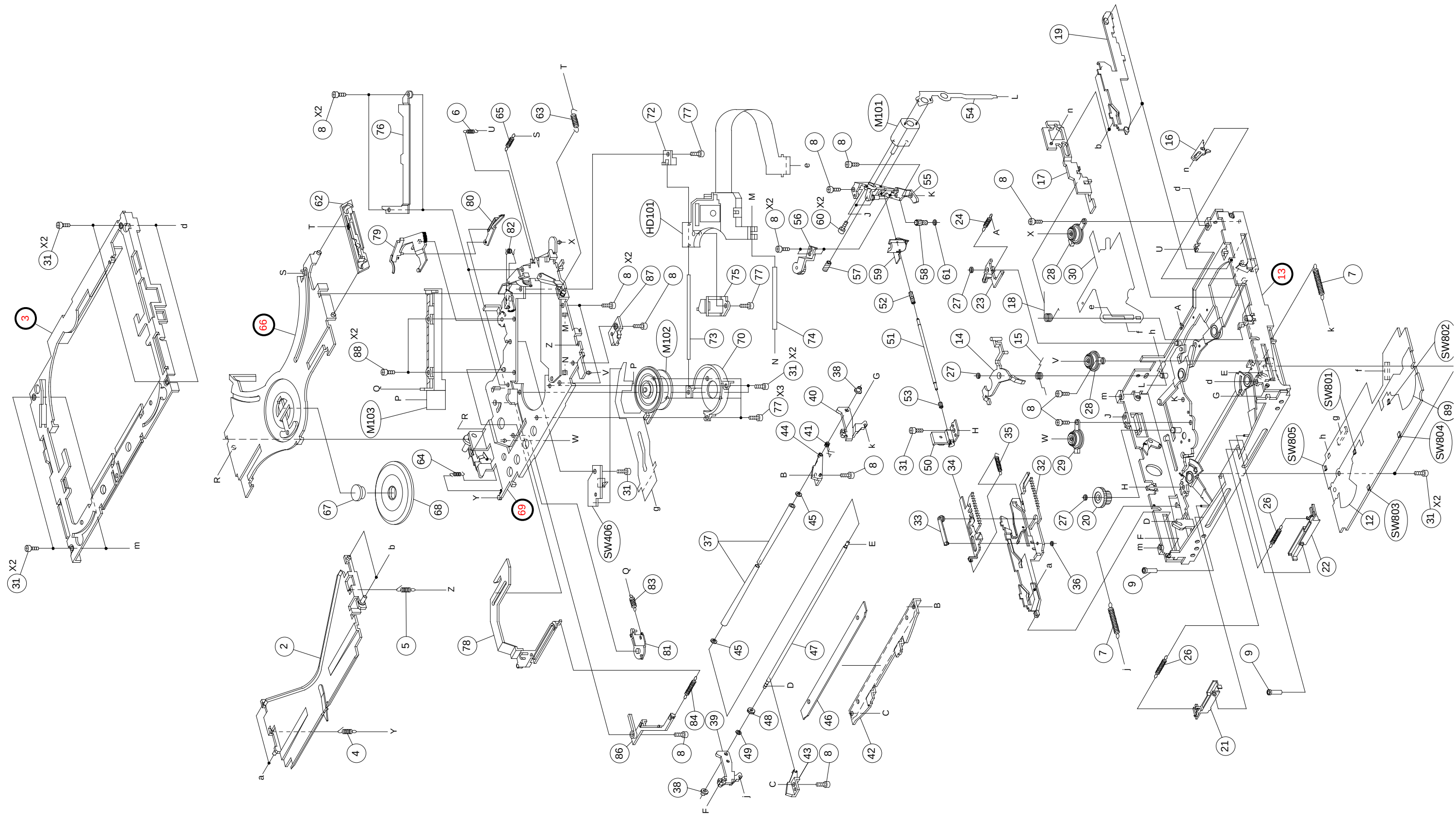
[Figure]



Exploded View (DVD Deck Mechanism)

IVA-D310R/IVA-D310RB

(DV37M050)



*** Tuner Unit Block**

Contents

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NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Specifications

<FM RADIO>

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5 to 108MHz
Usable Sensitivity (Mono, 30dB S/N, at 98.1MHz)	20.2dBf
-3dB Limiting Sensitivity (at 98.1MHz)	23.2dBf
Residual Noise (Ref. 400Hz, at 98.1MHz)	28±10dB
S/N Ratio (at 98.1MHz)	Stereo : 55dB Mono : 58dB
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dBu, at 98.1MHz)	1.0%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB 10kHz : -10±3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	36.2dBf

<MW RADIO>

Intermediate Frequency	1st. IF : 10.7MHz 2nd. IF : 450kHz
Frequency Range	531 to 1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	36dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (1st. IF, at 1,404kHz)	50dB
IF Rejection (2nd. IF, at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	100Hz : -3±4dB 2.5kHz : -3+4,-8dB

<LW RADIO>

Intermediate Frequency	1st. IF : 10.7MHz 2nd. IF : 450kHz
Frequency Range	153 to 281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	42dB
S/N Ratio (at 216kHz)	44dB
Image Rejection (1st. IF, at 270kHz)	50dB
IF Rejection (2nd. IF, at 162kHz)	60dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3±4dB 2.5kHz : -3+4,-8dB

<GENERAL>

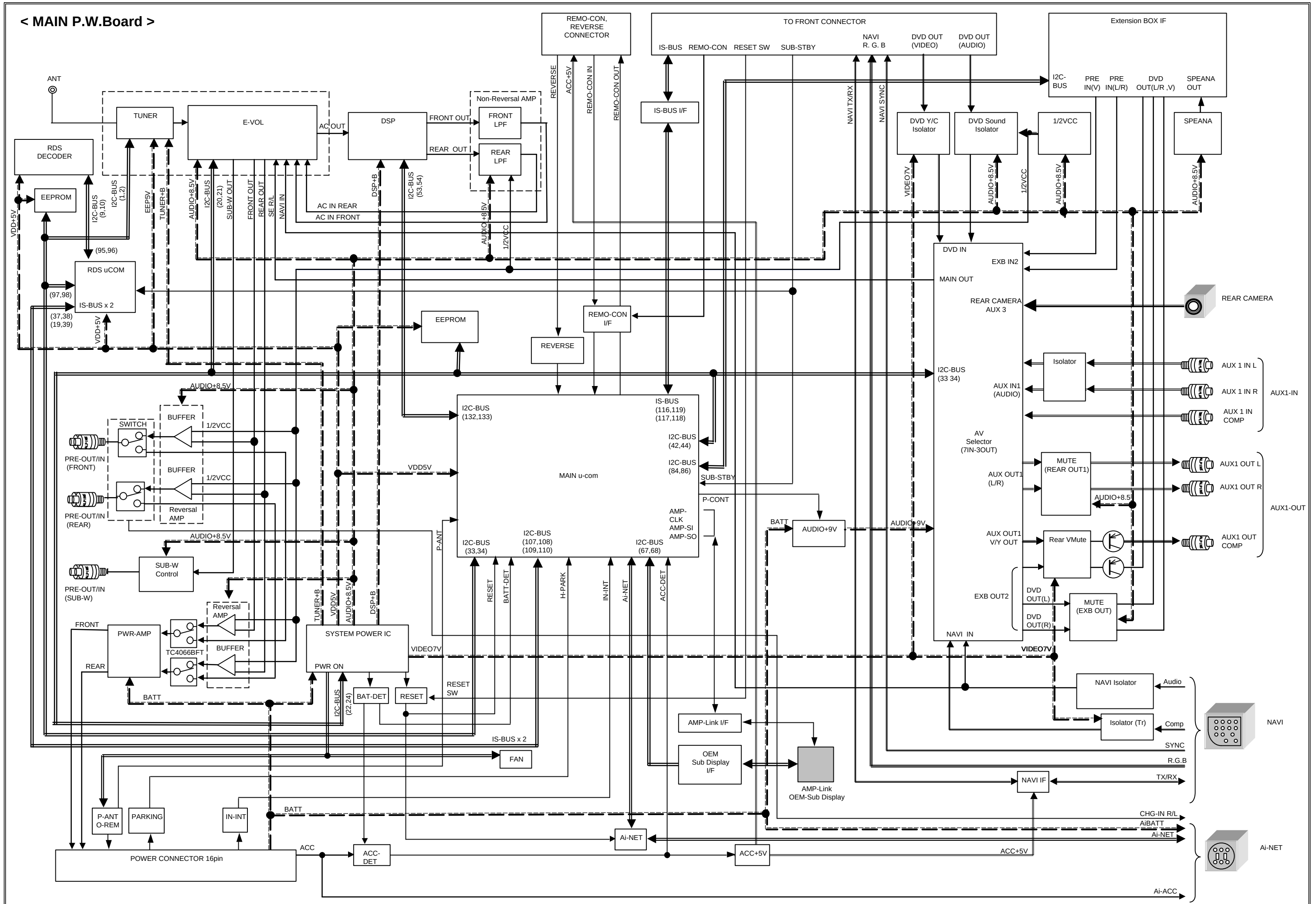
Power Supply	DC14.4V
Power Output (TCD-782(0dB/1kHz), T.H.D. 10%) /Impedance	16W/ch/4ohm
Pre Output (TCD-782 (0dB/1kHz), T.H.D. 1%, FRONT/REAR/SUB-W (SUB-W STEP 15)) /Impedance	2V±2.5dBV/ch/10kohm
SUB-W Output Level (TCD-782 (0dB/1kHz), SUB-W STEP 0, Ref. FRONT PRE-OUT)	-15±3dB
Dimensions (W x H x D)	274.2 x 40 x 170mm
Weight	1.2kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

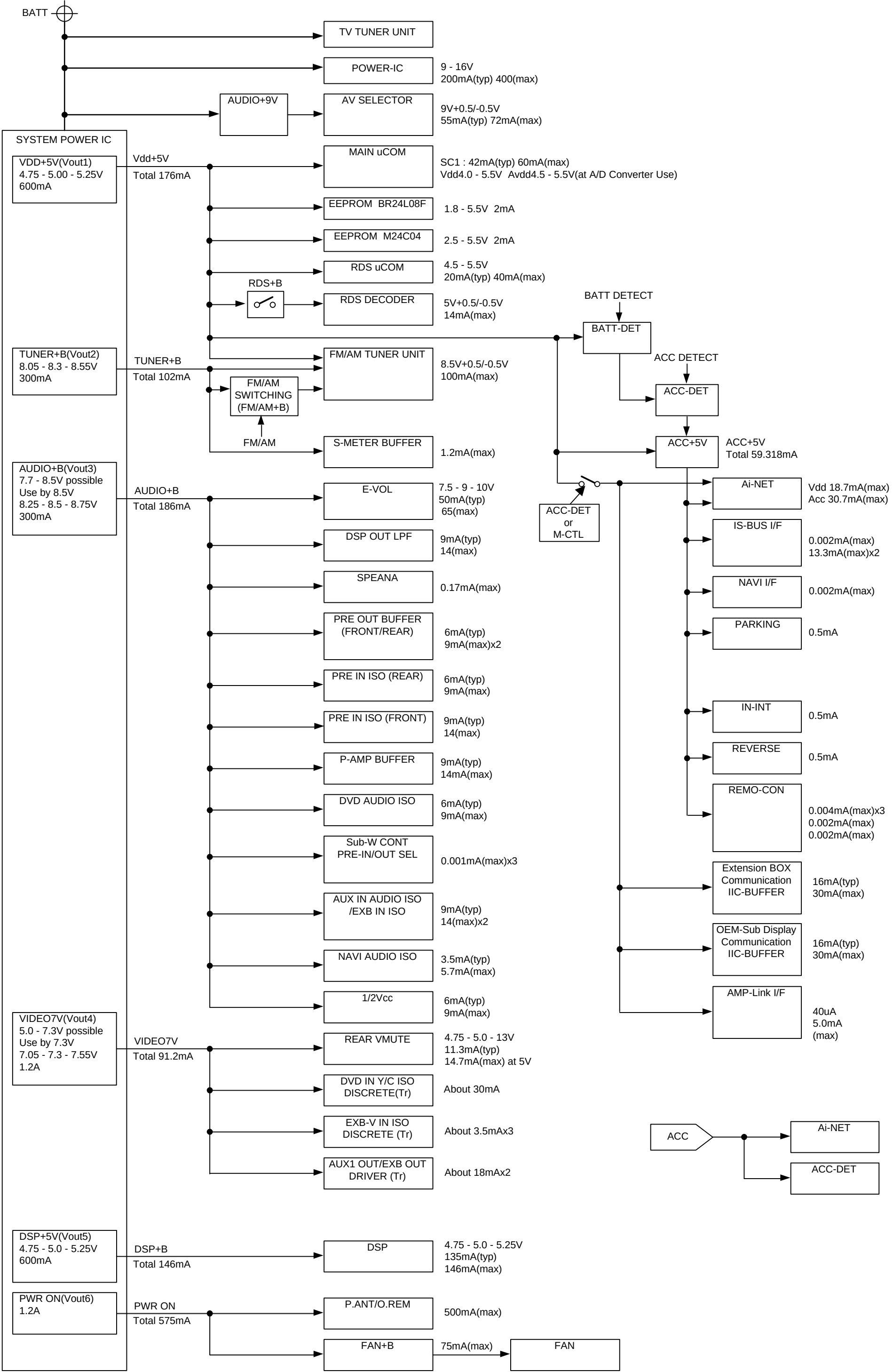
Block Diagram

IVA-D310R/IVA-D310RB

< MAIN P.W.Board >



< POWER SUPPLY SYSTEM : B.BOX >



Parts Layout on P.W.Boards and Wiring Diagram(1/3)

IVA-D310R/IVA-D310RB

MAIN P.W.Board
(Component Side View)

To Monitor Unit
(FRONT P.W.Board (DIN6303))

1

2

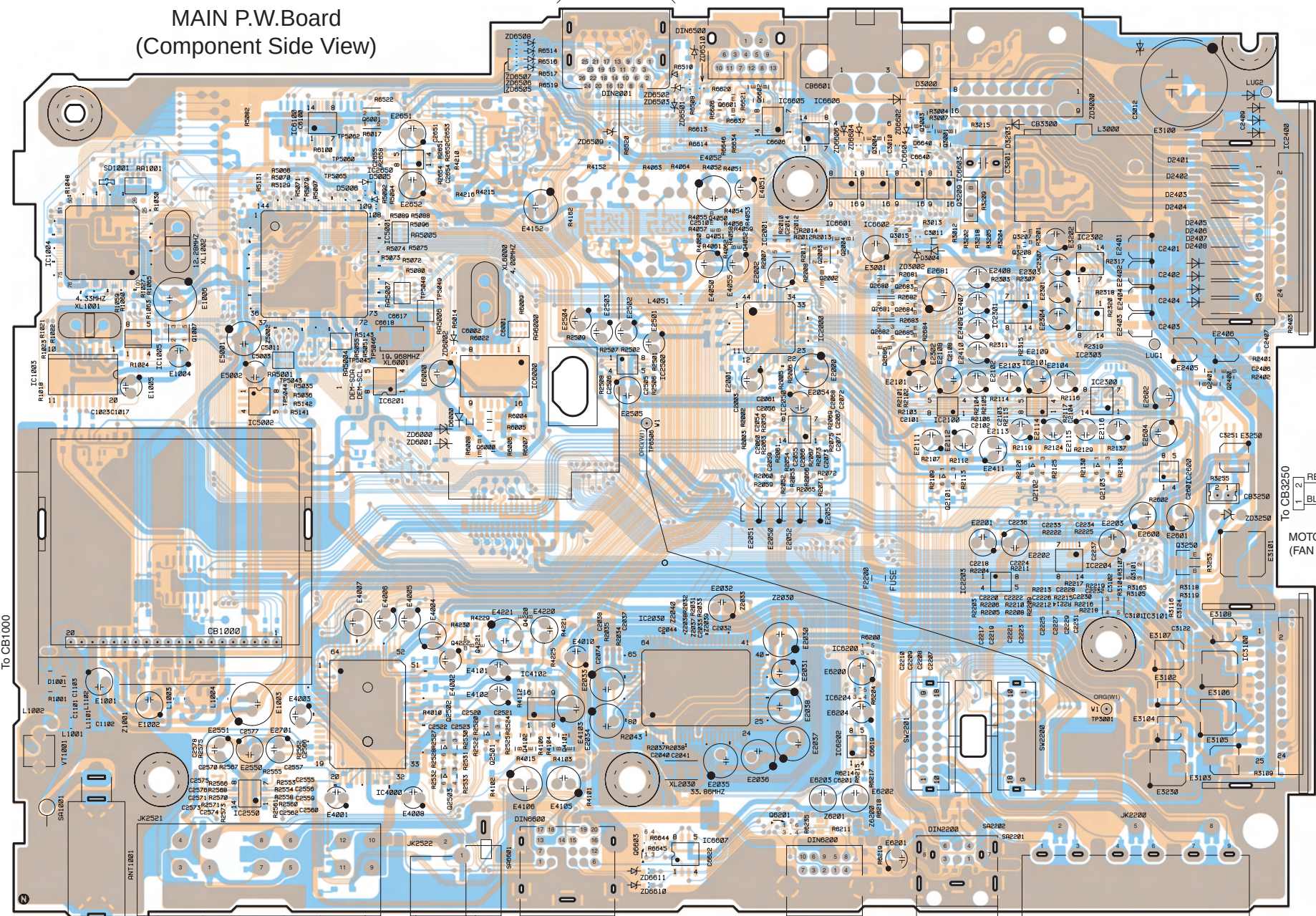
3

4

5

From RADIO P.W.Board (CB001)

To CB1000



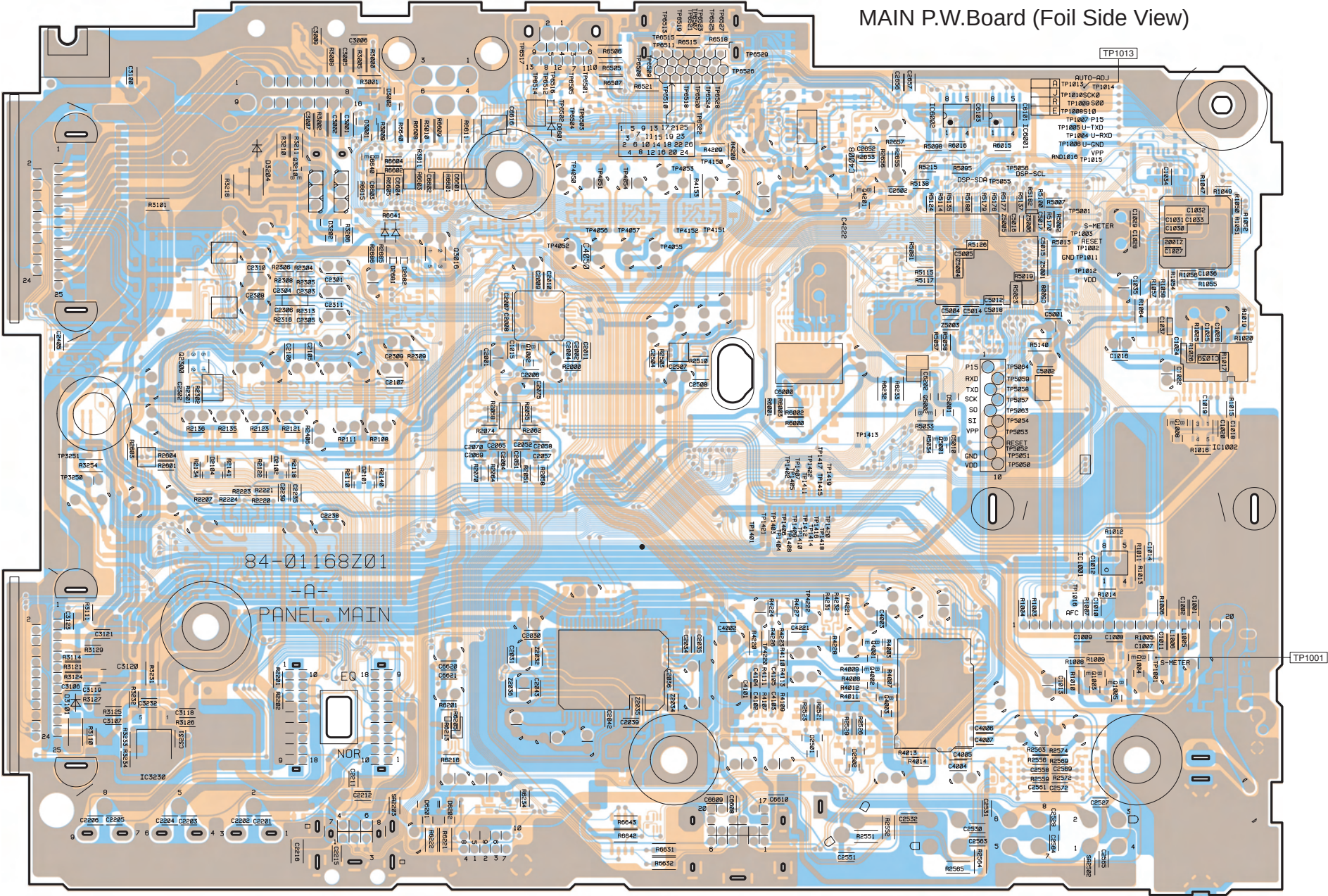
To CB3250
RED
BLK
M3250
MOTOR, F2510CT-12UCV
(FAN MOTOR/12V-40mA)

Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

A | B | C | D | E | F | G

1
2
3
4
5

MAIN P.W.Board (Foil Side View)



Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

A | B | C | D | E | F | G

1

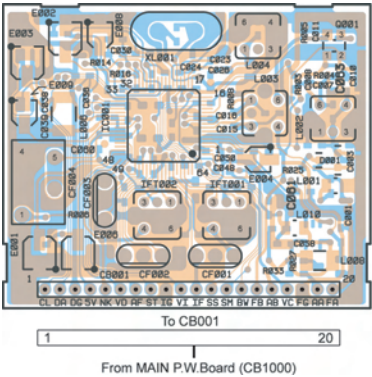
2

3

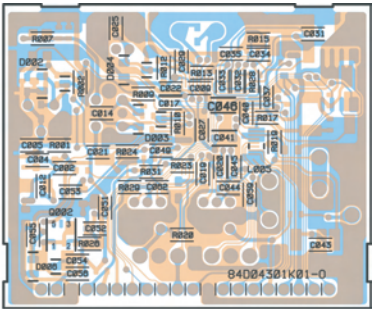
4

5

RADIO P.W.Board
(Component Side View)



RADIO P.W.Board
(Foil Side View)



Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

A

B

C

D

E

F

G

IVA-D310R/IVA-D310RB

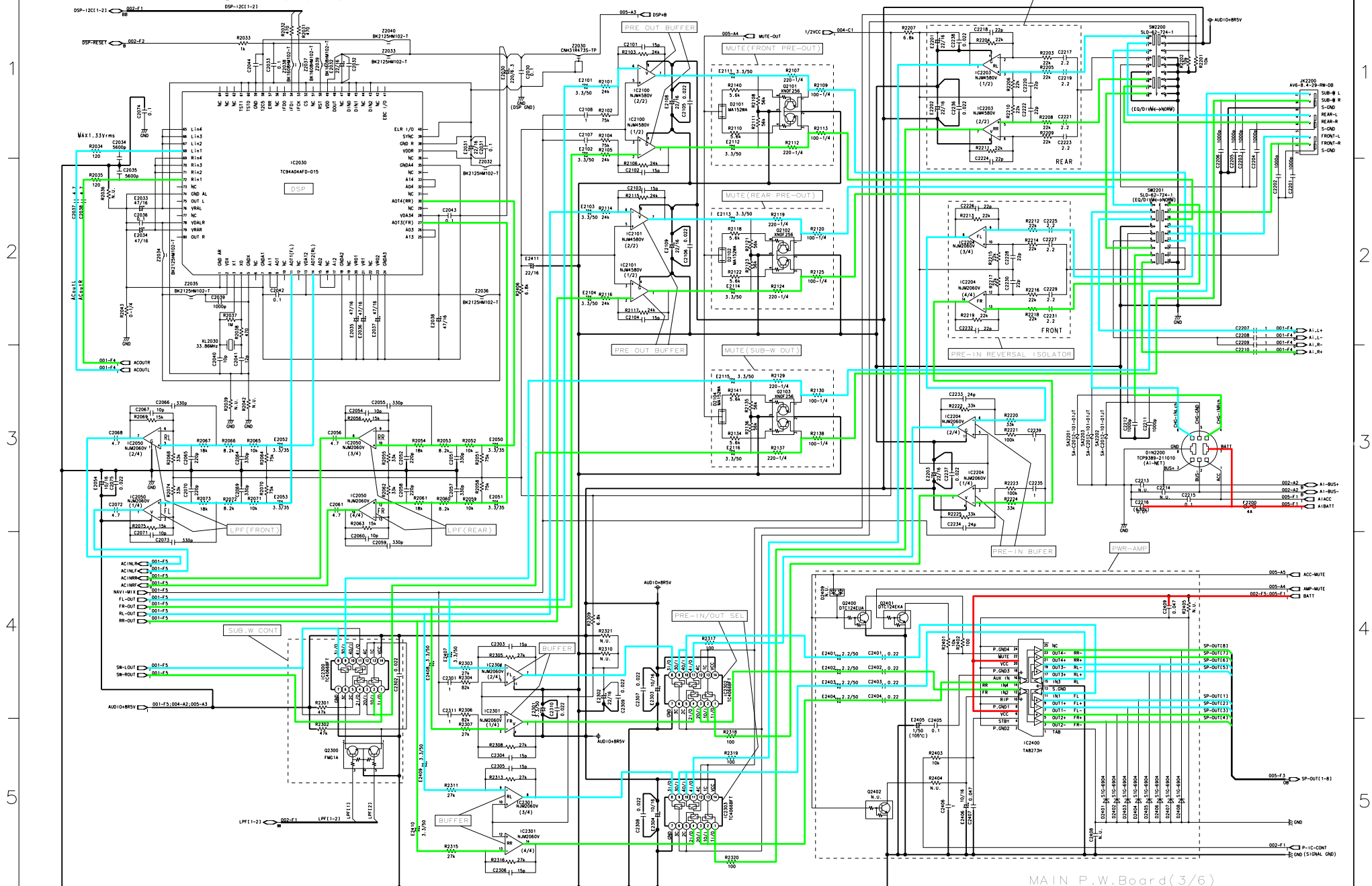


MAIN P.W.Board(1/6)
NOTE:N.U.is Not Used Parts.



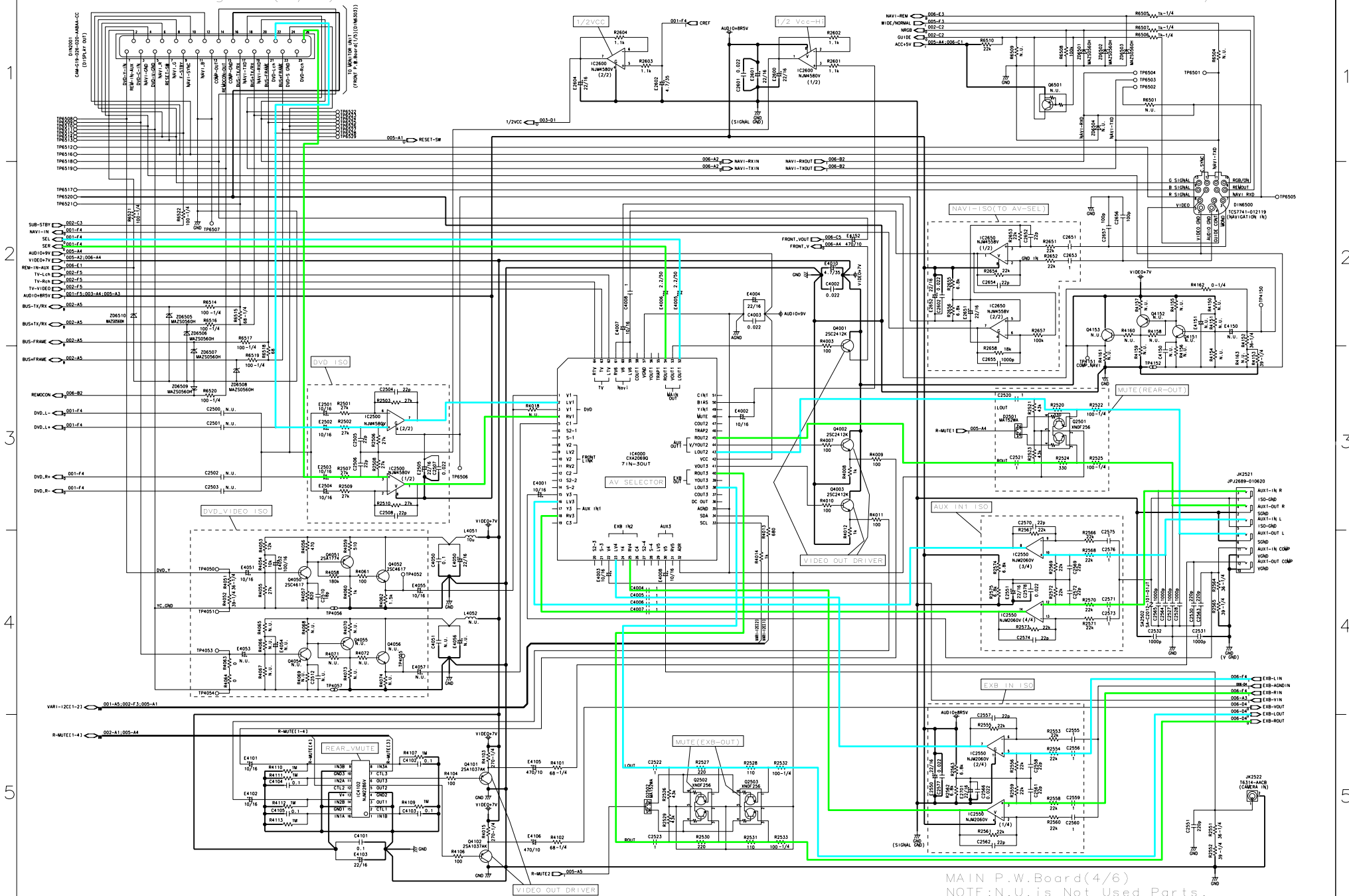
Schematic Diagram(3/7)

IVA-D310R/IVA-D310RB



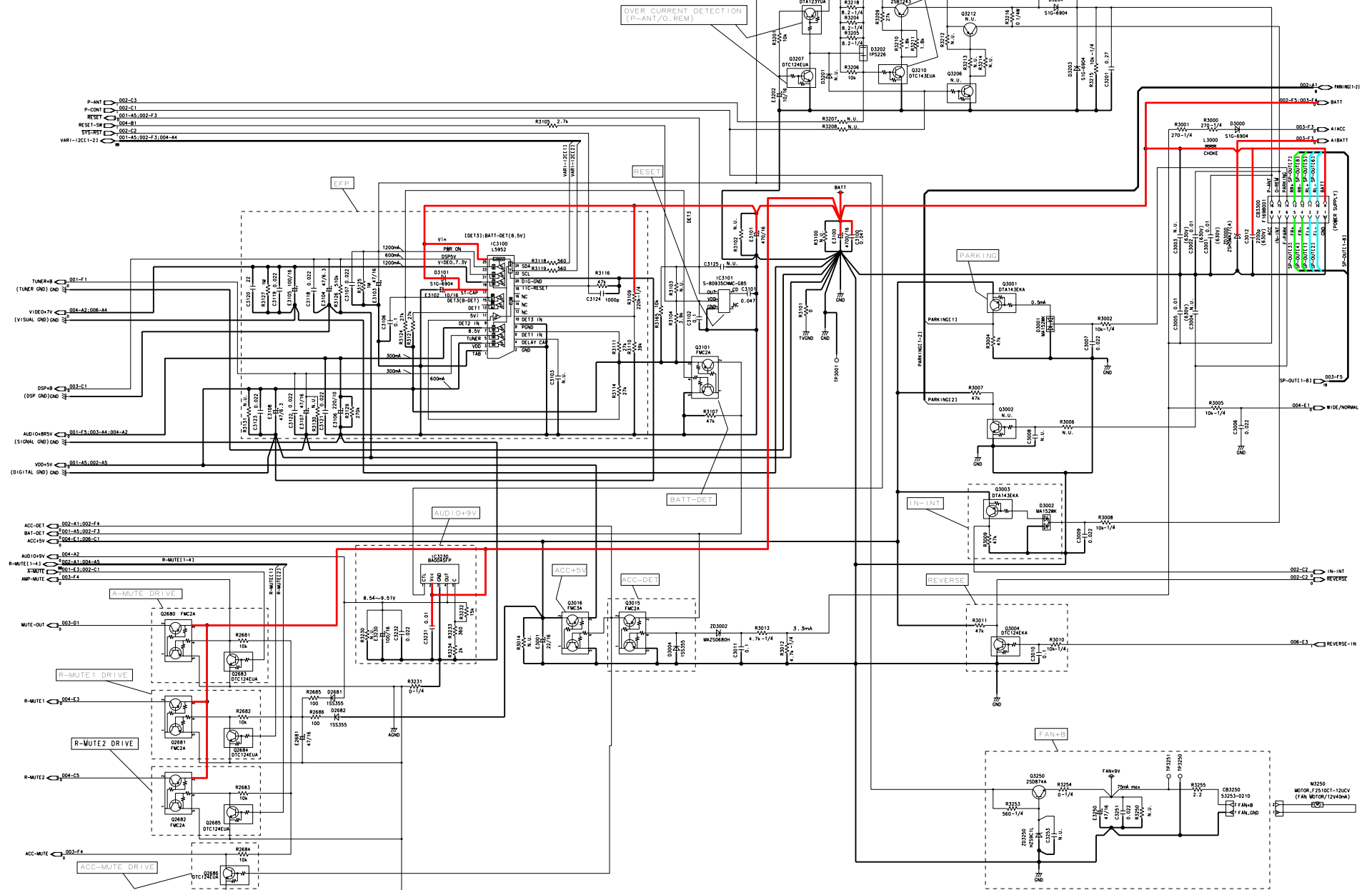
MAIN P.W.Board(3/6)
NOTE:N.U.is Not Used Parts.

IVA-D310R/IVA-D310RB

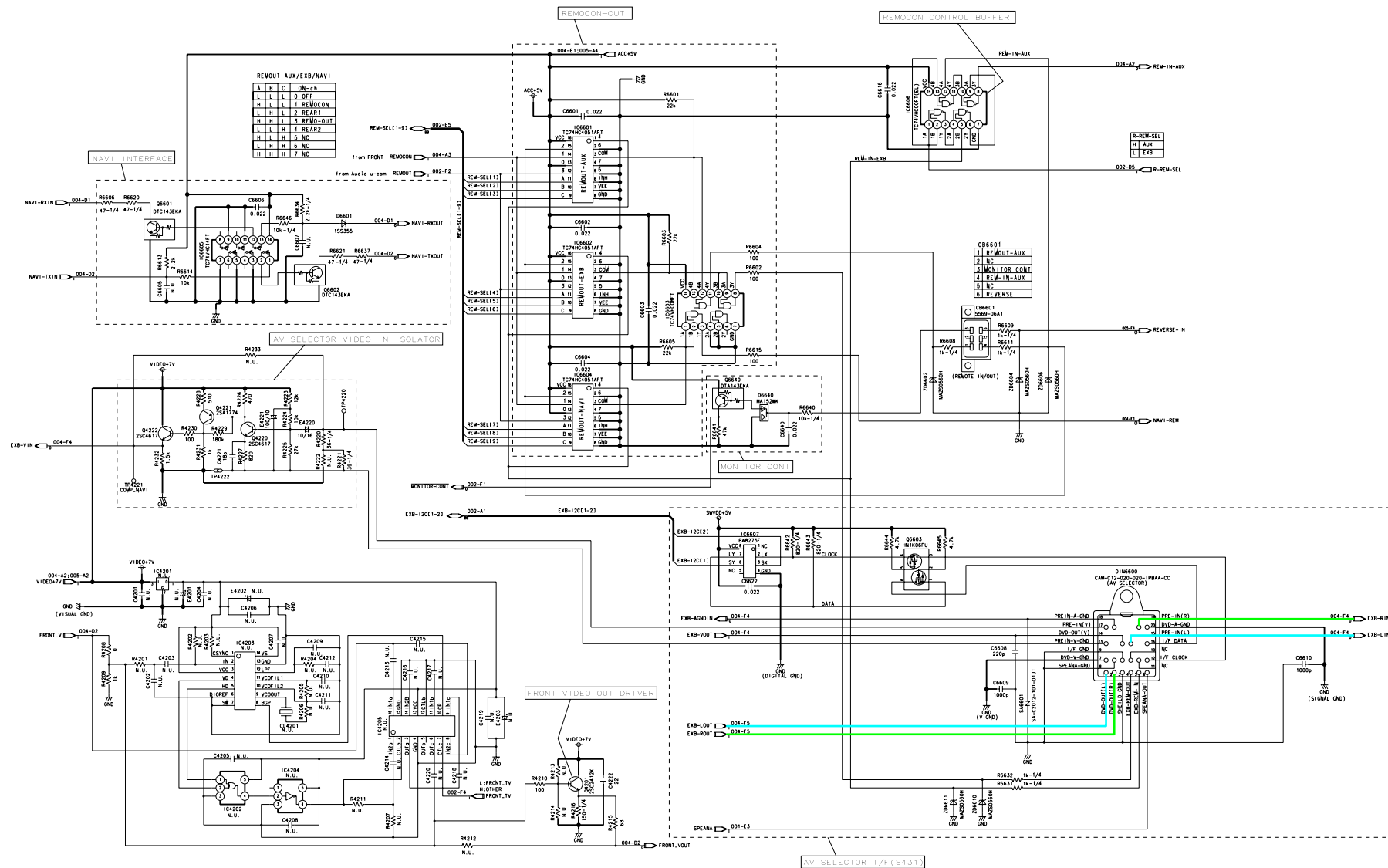


MAIN P.W.Board(4/6)
NOTE:N.U.is Not Used Parts

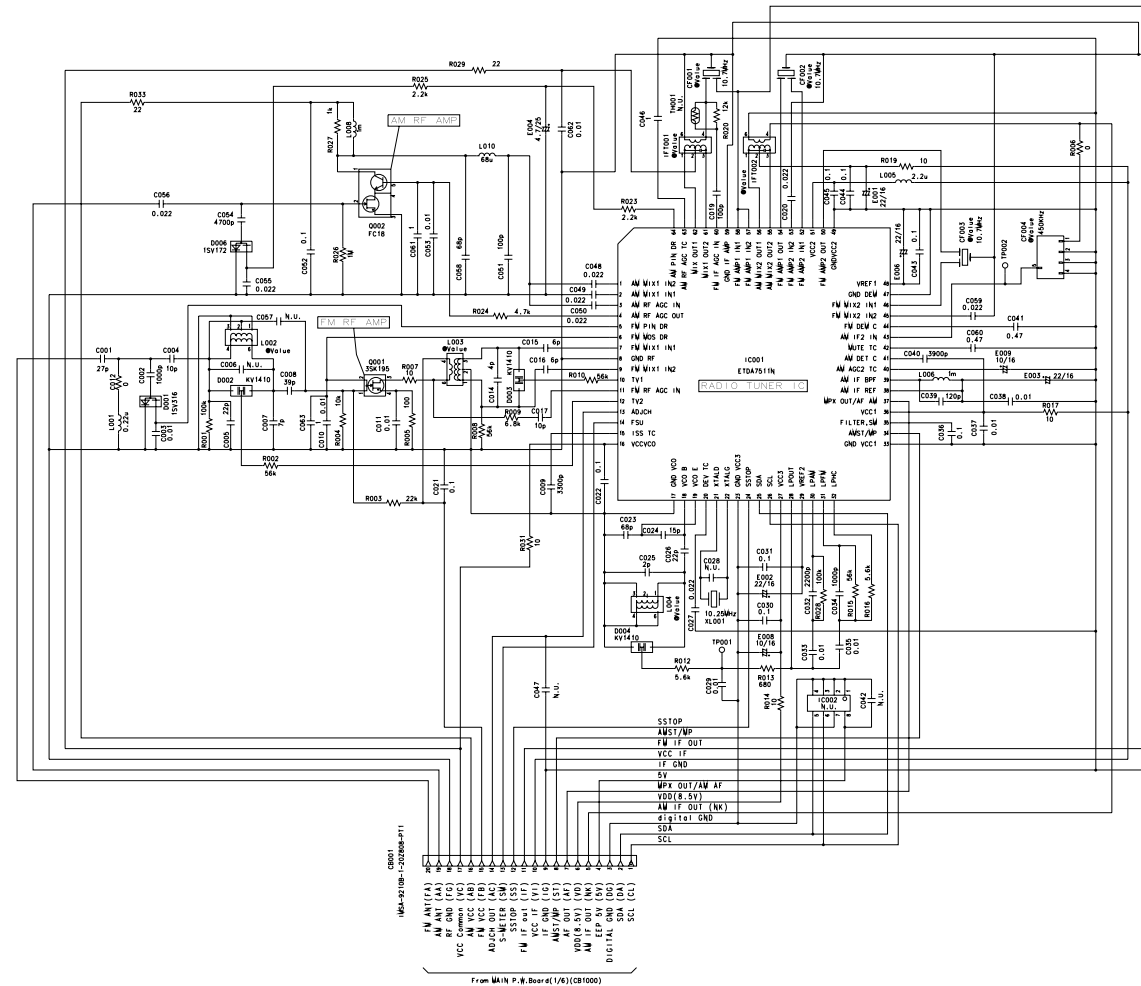
IVA-D310R/IVA-D310RB



MAIN P.W.Board(5/6)
NOTE:N.U.is Not Used Parts.



MAIN P.W.Board(6/6)
NOTE:N.U.is Not Used Parts.



RADIO P.W.Board
NOTE:N.U.is Not Used Parts.

Terminal Voltage of IC/TR

<MAIN P.W.Board>

IC1001		
1	4.2/4.9	FM Standard input/AM Standard input
2	4.2/4.9	FM Standard input/AM Standard input
3	4.2/4.9	FM Standard input/AM Standard input
4	0	
5	4.2/4.9	FM Standard input/AM Standard input
6	4.2/4.9	FM Standard input/AM Standard input
7	4.2/4.9	FM Standard input/AM Standard input
8	8.2	

IC1002		
1	0.0	FM Standard input
2	3.1	FM Standard input
3	3.1	FM Standard input
4	8.2	FM Standard input
5	8.2	FM Standard input

IC1003					
1	0.0	FM Standard input	11	0.0	FM Standard input
2	0.0	FM Standard input	12	0.0	FM Standard input
3	0.0	FM Standard input	13	2.3	FM Standard input
4	2.3	FM Standard input	14	4.8	FM Standard input
5	2.2	FM Standard input	15	0.0	FM Standard input
6	0.0	FM Standard input	16	2.3	FM Standard input
7	4.6	FM Standard input	17	2.4	FM Standard input
8	4.6	FM Standard input	18	2.4	FM Standard input
9	4.8	FM Standard input	19	2.4	FM Standard input
10	4.8	FM Standard input	20	2.4	FM Standard input

IC1004-1					
1	0/0	*1	21	0.0	FM Standard input
2	0.0	FM Standard input	22	0.0	FM Standard input
3	0.0	*1	23	4.8	FM Standard input
4	0/0	FM Standard input	24	4.8	FM Standard input
5	5.0	FM Standard input	25	4/5	*1
6	0.0	FM Standard input	26	0/0	*1
7	0.0	FM Standard input	27	0.2/0.2	*1
8	0.0	FM Standard input	28	4.2/4.2	*1
9	4.9	FM Standard input	29	0.2/4.6	*1
10	2.7	FM Standard input	30	3/3	*1
11	2.6	FM Standard input	31	0.0	FM Standard input
12	0.0	FM Standard input	32	0.0	FM Standard input
13	4.8	FM Standard input	33	0.0	FM Standard input
14	0.0	FM Standard input	34	0.0	FM Standard input
15	4.9	FM Standard input	35	0.0	FM Standard input
16	4.9	FM Standard input	36	4.8	FM Standard input
17	4.8	FM Standard input	37	4.6	FM Standard input
18	0.0	FM Standard input	38	4.8	FM Standard input
19	4.9	FM Standard input	39	4.8	FM Standard input
20	0.0	FM Standard input	40	4.8	FM Standard input

NOTE : *1 : FM Standard input/AM Standard input

IVA-D310R/IVA-D310RB

IC1004-2					
41	4.8	FM Standard input	71	0.0	FM Standard input
42	0.0	FM Standard input	72	0.0	FM Standard input
43	0.0	FM Standard input	73	0.0	FM Standard input
44	0.0	FM Standard input	74	0.0	FM Standard input
45	0.0	FM Standard input	75	0.0	FM Standard input
46	0.0	FM Standard input	76	0.0	FM Standard input
47	0.0	FM Standard input	77	0.0	FM Standard input
48	4.8	FM Standard input	78	0.0	FM Standard input
49	0.0	FM Standard input	79	0.0	FM Standard input
50	0.0	FM Standard input	80	0.0	FM Standard input
51	0.0	FM Standard input	81	5.0	FM Standard input
52	0.0	FM Standard input	82	0.0	FM Standard input
53	4.9	FM Standard input	83	0.0	FM Standard input
54	4.9	FM Standard input	84	0.0	FM Standard input
55	0.0	FM Standard input	85	0.0	FM Standard input
56	0.0	FM Standard input	86	0.0	FM Standard input
57	0.0	FM Standard input	87	0.0	FM Standard input
58	0.0	FM Standard input	88	0.0	FM Standard input
59	0.0	FM Standard input	89	0.0	FM Standard input
60	0.0	FM Standard input	90	0.0	FM Standard input
61	0.0	FM Standard input	91	0.0	FM Standard input
62	0.0	FM Standard input	92	4.8/0	*1
63	0.0	FM Standard input	93	4.8/0	*1
64	0.0	FM Standard input	94	0.0	FM Standard input
65	0.0	FM Standard input	95	4.8/0	*1
66	0.0	FM Standard input	96	4.8/0	*1
67	0.2	FM Standard input	97	5.0	FM Standard input
68	0.0	FM Standard input	98	5.0	FM Standard input
69	0.0	FM Standard input	99	0.0	FM Standard input
70	0.0	FM Standard input	100	0.2/8.3	*1

NOTE : *1 : FM Standard input/AM Standard input

IC1005		
1	4.2/4.9	FM Standard input/AM Standard input
2	4.2/4.9	FM Standard input/AM Standard input
3	4.2/4.9	FM Standard input/AM Standard input
4	0	
5	4.2/4.9	FM Standard input/AM Standard input
6	4.2/4.9	FM Standard input/AM Standard input
7	4.2/4.9	FM Standard input/AM Standard input
8	8.2	

IC2000							
1	4.2	12	4.2	23	4.2	34	4.2
2	4.2	13	4.2	24	4.2	35	4.2
3	4.2	14	4.2/4.9(*1)	25	4.2	36	4.2
4	4.2	15	0	26	4.2	37	4.2
5	4.2	16	4.3	27	4.2	38	4.2
6	4.2	17	0.2	28	4.2	39	4.2
7	4.2	18	3.6	29	4.2	40	4.2
8	4.2	19	0	30	4.2	41	4.2
9	4.2	20	PS	31	4.2	42	4.2
10	4.2	21	PS	32	4.2	43	4.2
11	4.2	22	8.4	33	4.2	44	4.2

NOTE : *1 : FM Standard input/AM Standard input

IVA-D310R/IVA-D310RB

IC2001	
1	4.2
2	0
3	4.2
4	8.4
5	4.2

IC2030									
1	0	17	2.5	33	2.5	49	4.9	65	2.5
2	4.9	18	0	34	0	50	4.8	66	2.5
3	AC	19	0	35	0	51	0	67	2.5
4	AC	20	2.5	36	0	52	0	68	2.5
5	0	21	2.5	37	4.9	53	PS	69	2.5
6	0	22	0	38	0	54	PS	70	2.5
7	0	23	2.4	39	0	55	0	71	2.5
8	2.5	24	0	40	PS	56	0	72	2.5
9	2.5	25	2.5	41	PS	57	0	73	0
10	0	26	2.5	42	0	58	4.9	74	0
11	2.5	27	2.5	43	0	59	0	75	2.5
12	0	28	2.5	44	0	60	0	76	2.5
13	4.9	29	0	45	0	61	0	77	0
14	2.5	30	2.5	46	0	62	0	78	4.9
15	2.5	31	0	47	0	63	0	79	2.5
16	0	32	2.5	48	PS	64	0	80	2.5

IC2050			
1	4.2	8	4.2
2	4.2	9	4.2
3	4.2	10	4.2
4	8.4	11	0
5	4.2	12	4.2
6	4.2	13	4.2
7	4.2	14	4.2

IC2100	
1	4.2
2	4.2
3	4.2
4	0
5	4.2
6	4.2
7	4.2
8	8.4

IC2101	
1	4.2
2	4.2
3	4.2
4	0
5	4.2
6	4.2
7	4.2
8	8.4

IC2203	
1	4.2
2	4.2
3	4.2
4	0
5	4.2
6	4.2
7	4.2
8	8.4

IC2204			
1	4.2	8	4.2
2	4.2	9	4.2
3	4.2	10	4.2
4	8.4	11	0
5	4.2	12	4.2
6	4.2	13	4.2
7	4.2	14	4.2

IC2300					
1	4.2		8	4.2	
2	4.2		9	4.2	
3	4.2		10	4.2	
4	4.2		11	4.2	
5	8.4/0	LPF ON/OFF	12	0/8.4	LPF ON/OFF
6	8.4/0	LPF ON/OFF	13	0/8.4	LPF ON/OFF
7	0		14	8.4	

IVA-D310R/IVA-D310RB

IC2301			
1	4.2	8	4.2
2	4.2	9	4.2
3	4.2	10	4.2
4	8.4	11	0
5	4.2	12	4.2
6	4.2	13	4.2
7	4.2	14	4.2

IC2302					
1	4.2		8	4.2	
2	4.2		9	4.2	
3	4.2		10	4.2	
4	4.2		11	4.2	
5	0/8.4	Ai NORM/EQ	12	8.4/0	Ai NORM/EQ
6	0/8.4	Ai NORM/EQ	13	8.4/0	Ai NORM/EQ
7	0		14	8.4	

IC2303					
1	4.2		8	4.2	
2	4.2		9	4.2	
3	4.2		10	4.2	
4	4.2		11	4.2	
5	0/8.4	Ai NORM/EQ	12	8.4/0	Ai NORM/EQ
6	0/8.4	Ai NORM/EQ	13	8.4/0	Ai NORM/EQ
7	0		14	8.4	

IC2400			
1	0	14	1.44
2	0	15	1.44
3	7.5	16	1.38
4	4.9	17	7.6
5	7.5	18	0
6	14.3	19	7.6
7	7.6	20	14.3
8	0	21	7.6
9	7.6	22	4.1
10	8.8	23	7.6
11	1.45	24	0
12	1.45	25	0.3
13	0		

IC2500	
1	4.4
2	4.4
3	4.4
4	0
5	4.4
6	4.4
7	4.4
8	8.4

IC2550			
1	4.4	8	4.4
2	4.4	9	4.4
3	4.4	10	4.4
4	8.4	11	0
5	4.4	12	4.4
6	4.4	13	4.4
7	4.4	14	4.4

IC2600	
1	4.4
2	4.4
3	4.4
4	0
5	4.4
6	4.4
7	4.4
8	8.4

IC2650	
1	4.2
2	4.2
3	4.2
4	0
5	4.2
6	4.2
7	4.2
8	8.4

IVA-D310R/IVA-D310RB

IC3100					
1	0		14	NC	
2	0		15	NC	
3	5		16	NC	
4	4.3		17	13.4	
5	8.2/0	TUNER/Others	18	NC	
6	4.9		19	7.2	
7	8.5/0	PWR ON/OFF	20	0	
8	0		21	5/0	PWR ON/OFF
9	5		22	PS	
10	2.1		23	14.2/0	PWR ON/OFF
11	5		24	PS	
12	NC		25	14.4	
13	NC				

IC3101	
1	4.9
2	4.9
3	0
4	NC
5	0

IC3230		
1	4.3/0	PWR ON/OFF
2	14.3	
3	0	
4	9/0	PWR ON/OFF
5	1.22/0	PWR ON/OFF

IC4000									
1	4.3	14	5	27	0.2	40	4.5	53	3.8
2	4.5	15	4	28	5	41	3.8	54	4.5
3	4	16	4.5	29	4.5	42	9	55	3.8
4	4.5	17	4	30	4	43	4.5	56	3.3
5	4.5	18	4.5	31	4.5	44	3.7	57	0
6	0.2	19	4.5	32	0	45	4.5	58	4.5
7	5	20	0.2	33	5	46	3.8	59	4.3
8	4	21	5	34	5	47	4.5	60	4
9	4.5	22	4	35	0	48	0	61	4.3
10	4	23	4.5	36	4.5	49	4	62	4.5
11	4.5	24	4	37	4.5	50	4.5	63	4
12	4.5	25	4.5	38	4.5	51	4.5	64	4.5
13	0.2	26	4.5	39	3.8	52	4.5		

IC4102							
1	2.2	5	2.2	9	2.2	13	7.3
2	0	6	1.5	10	0	14	3
3	1.5	7	4.8	11	2.2	15	0
4	0	8	2.2	12	4.8	16	2.2

IVA-D310R/IVA-D310RB

IC5001-1					
1	4.2/4.9	FM Standard input/AM Standard input	57	NC	
2	4.9		58	NC	
3	0		59	NC	
4	4.2	AM Standard input	60	5	
5	0		61	NC	
6	NC		62	NC	
7	NC		63	NC	
8	NC		64	NC	
9	NC		65	0	
10	NC		66	NC	
11	NC		67	PS	
12	NC		68	PS	
13	NC		69	NC	
14	NC		70	NC	
15	5/0	R-REM-SEL AUX/EXB	71	0	
16	0/0/0/0/5	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	72	0	
17	0/0/5/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	73	AC	
18	0/5/0/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	74	AC	
19	0/0/0/0/5	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	75	0	
20	0/0/5/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	76	PS	at AMP-LINK
21	0/5/0/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	77	4.8	
22	5		78	5/0	R-VMUTE OFF/ON
23	0/0/0/0/5	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	79	5/0	R-VMUTE OFF/ON
24	0/0/5/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	80	5/0	R-AMUTE OFF/ON
25	0/5/0/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB	81	5/0	R-AMUTE OFF/ON
26	NC		82	5/0	ACC ON/OFF
27	NC		83	0	
28	0		84	PS	at EXB Communication
29	NC		85	5	
30	0		86	PS	at EXB Communication
31	5/0		87	5	
32	NC		88	5	
33	NC		89	5	
34	NC		90	5	
35	NC		91	5	
36	NC		92	0	
37	0		93	5	
38	3.2		94	PS	
39	5		95	0	
40	4.9		96	PS	
41	0		97	PS	
42	PS		98	PS	at AMP-LINK
43	NC		99	PS	at AMP-LINK
44	PS		100	0/5	LPF ON/OFF
45	5		101	5/0	LPF ON/OFF
46	NC		102	5	
47	NC		103	5/0	MUTE ON/OFF
48	NC		104	0	
49	NC		105	0	
50	NC		106	5	
51	NC		107	PS	
52	NC		108	PS	
53	NC		109	PS	
54	NC		110	PS	
55	NC		111	5	
56	NC		112	NC	

IVA-D310R/IVA-D310RB

IC5001-2					
113	PS		129	NC	
114	0/5	IN-INT OFF/ON	130	NC	
115	5/0	REVERSE OFF/ON	131	0	
116	PS		132	PS	
117	PS		133	PS	
118	PS		134	NC	
119	PS		135	0	
120	0		136	5	
121	5/0	RADIO/Others	137	NC	
122	5/0	H-PARK ON/OFF	138	NC	
123	5/0	F-PARK ON/OFF	139	NC	
124	5		140	NC	
125	NC		141	NC	
126	NC		142	0	
127	NC		143	5	
128	5		144	0	

IC5002	
1	0
2	0
3	0
4	0
5	PS
6	PS
7	0
8	5

IC6000					
1	4.9		9	4.9	
2	0		10	0	
3	PS	at CHG	11	4.9	
4	PS	at CHG	12	PS(1.93)	at CHG
5	AC		13	PS(2.97)	at CHG
6	AC		14	0	
7	4.9		15	4.9	
8	0		16	4.9	

IC6001	
1	0
2	0
3	0
4	0
5	2.53
6	2.53
7	4.94
8	4.93

IC6002	
1	0
2	0
3	0
4	0
5	2.53
6	2.53
7	4.94
8	4.93

IC6100			
1	0	8	4.95
2	4.87	9	0
3	0	10	4.92
4	4.92	11	0
5	4.94	12	0
6	0	13	4.94
7	0	14	4.94

IC6200		
1	5	at connect AMP LINK
2	PS	at connect AMP LINK
3	0	at connect AMP LINK
4	PS	at connect AMP LINK
5	5	at connect AMP LINK

IC6201			
1	0	5	0
2	PS	6	PS
3	PS	7	PS
4	0	8	5

IVA-D310R/IVA-D310RB

IC6202		
1	PS	at connect AMP LINK
2	PS	at connect AMP LINK
3	PS	at connect AMP LINK
4	0	at connect AMP LINK
5	PS	at connect AMP LINK
6	1.9	at connect AMP LINK
7	PS	at connect AMP LINK
8	5	at connect AMP LINK

IC6204		
1	5	at connect AMP LINK
2	PS	at connect AMP LINK
3	0	at connect AMP LINK
4	PS	at connect AMP LINK
5	5	at connect AMP LINK

IC6601		
1	0/PS	usually/at REM Communication
2	0	
3	5/PS	usually/at REM Communication
4	0	
5	0	
6	0	
7	0	
8	0	
9	0/0/0/0/5	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
10	0/0/5/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
11	0/5/0/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
12	0/PS	usually/at REM Communication
13	5/PS	usually/at REM Communication
14	5/PS	usually/at REM Communication
15	0/PS	usually/at REM Communication
16	5	

IC6602		
1	0/PS	usually/at REM Communication
2	0	
3	5/PS	usually/at REM Communication
4	0	
5	0	
6	0	
7	0	
8	0	
9	0/0/0/0/5	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
10	0/0/5/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
11	0/5/0/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
12	0/PS	usually/at REM Communication
13	5/PS	usually/at REM Communication
14	5/PS	usually/at REM Communication
15	0/PS	usually/at REM Communication
16	5	

IC6603					
1	5/PS	usually/at REM Communication	8	5/PS	usually/at REM Communication
2	5/PS	usually/at REM Communication	9	5/PS	usually/at REM Communication
3	5/PS	usually/at REM Communication	10	5/PS	usually/at REM Communication
4	0		11	5/PS	usually/at REM Communication
5	0		12	5/PS	usually/at REM Communication
6	NC		13	5/PS	usually/at REM Communication
7	0		14	5/PS	

IVA-D310R/IVA-D310RB

IC6604		
1	0/PS	usually/at REM Communication
2	0	
3	5/PS	usually/at REM Communication
4	0	
5	0	
6	0	
7	0	
8	0	
9	0/0/0/0/5	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
10	0/0/5/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
11	0/5/0/5/0	REMOUT-AUX OFF/REM/R1/REM-OUT/EXB
12	0/PS	usually/at REM Communication
13	5/PS	usually/at REM Communication
14	5/PS	usually/at REM Communication
15	0/PS	usually/at REM Communication
16	5	

IC6605					
1	5/PS	usually/at NAVI Communication	8	NC	
2	5/PS	usually/at NAVI Communication	9	0	
3	0		10	NC	
4	NC		11	0	
5	0		12	5/PS	usually/at NAVI Communication
6	NC		13	5/PS	usually/at NAVI Communication
7	0		14	5	

IC6606					
1	5/0	R-REM-SEL AUX/EXB	8	0/PS	usually/at REM Communication
2	5/0	R-REM-SEL AUX/EXB	9	5/PS	usually/at REM Communication
3	0/5	R-REM-SEL AUX/EXB	10	5/PS	usually/at REM Communication
4	0/5	R-REM-SEL AUX/EXB	11	5/PS	usually/at REM Communication
5	0/PS	usually/at REM Communication	12	0/PS	usually/at REM Communication
6	5/PS	usually/at REM Communication	13	5/0	R-REM-SEL AUX/EXB
7	0		14	5	

IC6607		
1	0	
2	PS	
3	PS	
4	0	
5	0	
6	PS	
7	PS	
8	5.00	

IVA-D310R/IVA-D310RB

	B	C	E	NOTE
Q1002	0	3.7	0	FM Standard input
Q1003	8.2/8.2	8.2/7.5	0/8.2	FM/AM
Q1004	8.2/8.2	0/8.2	8.2/0	FM/AM
Q1005	0.1/8.2	8.2/1.8	8.3/8.3	FM/AM
Q1008	0	8.23	0	FM Standard input
Q2002	8.5/0	0/AC	0/0	A MUTE ON/OFF
Q2004	6/0	0/4.5	0/0	A MUTE ON/OFF
Q2400	3.2/0	0/4.1	0/0	RESET ON/OFF
Q2401	4.5/0	0/4.1	0/0	A MUTE ON/OFF
Q2683	0/4.5	4.5/0	0/0	A MUTE ON/OFF
Q2684	4.8	0	0	REAR OUT1 DVD
Q2685	4.8	0	0	EXPANSION BOX ON(REAR1 DVD)
Q2686	5	0	0	
Q3001	3.3/5	5/0	5/5	PARKING ON/OFF
Q3003	3.3/5	5/0	5/5	IN-INT ON/OFF
Q3004	4.2/0	0/5	0/0	REVERSE ON/OFF
Q3207	0	14.4	0	RADIO Mode
Q3208	14.4	0	14.4	RADIO Mode
Q3209	14.3	14.3	13.7	RADIO Mode
Q3210	2.8	0.1	0	RADIO Mode
Q3250	9.6	14.4	9.4	
Q4001	3.54	7.27	2.91	
Q4002	3.54	7.27	2.91	
Q4003	3.54	7.27	2.91	
Q4050	3.8	5.5	3.2	
Q4051	5.48	2.4	6.12	
Q4052	2.41	7.29	1.8	
Q4101	1.5	0	2.2	
Q4102	1.5	0	2.2	
Q4201	3.2	7.3	2.5	
Q4220	3.8	5.5	3.2	at connect VPE-S431
Q4221	5.5	2.3	6.2	at connect VPE-S431
Q4222	2.3	7.3	1.7	at connect VPE-S431
Q5001	4.5	0.1	0	
Q5002	4.26	4.96	4.97	
Q6000	4.97	2	4.97	
Q6601	PS	PS	0	at operating Touch Panel by connect NAVI
Q6602	PS	PS	0	at operating Touch Panel by connect NAVI
Q6640	3.3/5	5/0	5/5	MONITOR CONT ON/OFF

	1	2	3	4	5	NOTE
Q1007	0.1	5	5	8.2	0	FM Standard input
Q2003	0/8.5	8.5/0	8.5/8.5	6/0	0/0	A MUTE ON/OFF
Q2300	0/8.5	8.4/0	0/4.8	0/0	4.8/0	LPF ON/OFF
Q2680	0/14.4	14.4/0	0/0	4.5/0	0/0	A MUTE ON/OFF
Q2681	14.4	0	0	0	0	REAR OUT1 DVD
Q2682	14.4	0	0	0	0	EXPANSION BOX ON(REAR1 DVD)
Q3015	0/5	4.9/0	5/5	6.3/0	0/0	ACC ON/OFF
Q3016	0/5	4.9/0	5/5	5/0	0/0	ACC ON/OFF
Q3101	0	5	5	2.8	0	
Q6001	0/4.9	5/0	5/5	4.7/0	0/0	ACC ON/OFF

IVA-D310R/IVA-D310RB

	1	2	3	4	5	6	NOTE
Q2101	O/AC	0/0	O/AC	6.5/0	0/0	6.5/0	A MUTE ON/OFF
Q2102	O/AC	0/0	O/AC	6.5/0	0/0	6.5/0	A MUTE ON/OFF
Q2103	O/AC	0/0	O/AC	6.5/0	0/0	6.5/0	A MUTE ON/OFF
Q2501	AC	0	AC	0	0	0	REAR OUT1 DVD
Q2502	AC	0	AC	0	0	0	EXPANSION BOX ON(REAR1 DVD)
Q2503	AC	0	AC	0	0	0	EXPANSION BOX ON(REAR1 DVD)
Q6201	PS	5	PS	PS	5	PS	
Q6603	PS	5	PS	PS	5	PS	at connect VPE-S431

[Measuring Conditions]

- 1.Power Supply Voltage : DC14.4V
- 2.Measuring Meter : Digital Multi Meter
- 3.Measuring Point Reference : Between GND
- 4.Measuring Condition : at playing DVD (at No Mode assignment)

<RADIO P.W.Board>

IC001							
1	0	17	1.43	33	0	49	0
2	0	18	3.57	34	0.25	50	3.88
3	0	19	3.57	35	3.81	51	7.8
4	0	20	3.26	36	8.01	52	1.99
5	0	21	2	37	3.13	53	1.99
6	7.73	22	1.97	38	0.43	54	3.92
7	1.55	23	0	39	0.43	55	8.08
8	0	24	2.52	40	0.48	56	8.08
9	1.26	25	4.95	41	2.35	57	1.99
10	8.04	26	0.85	42	2.92	58	1.99
11	0.81	27	8.11	43	0.43	59	0
12	8.04	28	8.07	44	2.8	60	3.71
13	3.73	29	2.6	45	4.37	61	8.03
14	4.94	30	2.58	46	4.37	62	1.06
15	4.96	31	0	47	0	63	8.03
16	8.09	32	0	48	5.12	64	0.63

Q001	
1	2.49
2	7.75
3	7.82
4	1.09

Q002	
1	0
2	0
3	0
4	0
5	0.53

[Measuring Conditions]

- 1.Power Supply Voltage : DC14.4V
- 2.Measuring Meter : Digital Multi Meter
- 3.Measuring Point Reference : Between GND
- 4.Measuring Condition : at receiving FM Standard input

Description of IC Terminal

D784216AGC : IC1004

No.	Symbol	I/O	Terminal Description
1	IF-MUTE	O	IF MUTE control terminal. (H:IF MUTE ON)
2	NC	-	No connect terminal.
3			
4	RDS-CONT	O	RDS data input prevention control terminal of adjoining station. (H:RDS OFF)
5	NC	-	No connect terminal.
6			
8			
9	VDD	-	Power supply terminal.
10	X2	-	Crystal OSC connect terminal for main system clock OSC. (12.288MHz)
11	X1		
12	VSS	-	GND terminal.
13	XT2(NC)	-	No connect terminal.
14	XT1(GND)	-	GND terminal.
15	RESET	I	System reset input terminal.
16	BATT-DET	I	BATT compulsion stand-by signal input terminal from Power supply IC.
17	STANDBY	I	Stand-by signal input terminal from Main μ -COM.
18	NC	-	No connect terminal.
19	IS BUS FIN	I	IS BUS frame signal input terminal.
20	IS BUS REQ	I	IS BUS communication control input terminal.
21	NC	-	No connect terminal.
22			
23	AVDD	-	Analog power supply terminal of A/D converter.
24	AVREF	I	Standard voltage input terminal of A/D converter.
25	S-METER	I	Signal-Meter input terminal.
26	MULTIPATH	I	Multipath input terminal of RDS Decoder.
27	ADJCH-DET	I	Adjoining station detection input terminal.
28	SSTOP	I	FM station detection signal input terminal.
29	AMST/MP	I	AM station detection signal input terminal.
30	AFC	I	FM station detection signal input terminal.
31	NC(GND)	-	GND terminal.
32			
33	AVSS	-	GND terminal of A/D converter.
34	NC	-	No connect terminal.
35			
36	AVREF1	I	Standard voltage input terminal of D/A converter.
37	IS BUS RX	I	IS BUS receiving terminal.
38	IS BUS TX	O	IS BUS transmitting terminal.
39	IS BUS FOUT	O	IS BUS frame signal output terminal.
40	MONITOR RXD	I	Command input terminal for RDS monitor (P/C).
41	MONITOR TXD	O	Status output terminal for RDS monitor (P/C).
42	NC	-	No connect terminal.
43			
47			
48	T-MUTE	O	MUTE signal output terminal to Main μ -COM.
49	NC	-	No connect terminal.
50			
51	MARKET1	I	Area set up terminal.
52	MARKET2		

IVA-D310R/IVA-D310RB

No.	Symbol	I/O	Terminal Description
53	MARKET3	I	Area set up terminal.
54	AUTO-ADJ	I	Auto adjustment start signal terminal of FM/AM TUNER. (L:start)
55	NC	-	No connect terminal.
I			
71			
72	AVSS	-	GND terminal.
73	NC	-	No connect terminal.
I			
80			
81	VDD	-	Power supply terminal.
82	NC	-	No connect terminal.
I			
91			
92	PAUSE	I	Audio signal detect terminal. (L:Blank)
93	DAVN	I	Data available input terminal of RDS Decoder.
94	TEST/VPP	-	GND terminal.
95	RDS-SDA	I/O	Data input/output terminal to RDS Decoder.
96	RDS-SCL	O	Clock output terminal to RDS Decoder.
97	EEPROM_SCL	O	I2C clock output terminal to TUNER-IC(TDA7511).
98	EEPROM_SDA	I/O	I2C data input/output terminal to TUNER-IC(TDA7511).
99	TUNER ON(NC)	-	No connect terminal.
100	FM/AM	O	FM/AM power supply switching terminal. (L:FM)

D70F3089YGJ : IC5001

No.	Symbol	I/O	Terminal Description
1	RA-SM(PULL-DOWN)	-	Pull-down connect terminal.
2	RA-A-ADJ(PULL-UP)	-	Pull-up connect terminal.
3	RA-SSTOP (PULL-DOWN)	-	Pull-down connect terminal.
4	RA-AM-SD (PULL-DOWN)		
5	PORTGND0	-	GND terminal.
6	NC	-	No connect terminal.
1			
14			
15	R-REM-SEL	O	Remote Control input signal selection terminal. (AUX-IN / EXT.BOX)
16	EXT-REM-SELC	O	AUX2 Remote Control-OUT control terminal.
17	EXT-REM-SELB		
18	EXT-REM-SELA		
19	AUX1-REM-SELC	O	AUX1 Remote Control-OUT control terminal.
20	AUX1-REM-SELB		
21	AUX1-REM-SELA		
22	PORTVDD0	-	VDD terminal.
23	NAV-REM-SELC	O	NAVI Remote Control-OUT control terminal.
24	NAV-REM-SELB		
25	NAV-REM-SELA		
26	NC	-	No connect terminal.
27	T-STBY	O	Stand-by control output terminal to RDS u-COM.
28	TA-MUTE	I	MUTE signal input terminal from RDS u-COM.
29	NC	-	No connect terminal.
30	BW-CONT(NC)		
31	FM/AM CONT(NC)		
32	NC		
33	RA-SCL(NC)		
34	RA-SDA(NC)		
35	NC		
36	CLKOUT(NC)		
37	GND0	-	GND terminal.
38	CPUREG	-	GND connect terminal by capacitor (1uF).
39	VDD0	-	VDD terminal.
40	RESET	I	System RESET signal input terminal.
41	Vpp	-	Vpp terminal.
42	VARI-SDA	O	Serial DATA terminal to E-VOL, AV-SELECTOR, System Regulator.
43	NC	-	No connect terminal.
44	VARI-SCL	O	Serial CLOCK terminal to E-VOL, AV-SELECTOR, System Regulator.
45	BAT-DET	I	BATT detection input signal terminal.
46	NC	-	No connect terminal.
47	TV-PLL DATA(NC)		
48	TV-PLL CLK(NC)		
49	TV-BLGL(NC)		
50	TV-ST(NC)		
51	TV-SD(NC)		
52	TV-SUB(NC)		

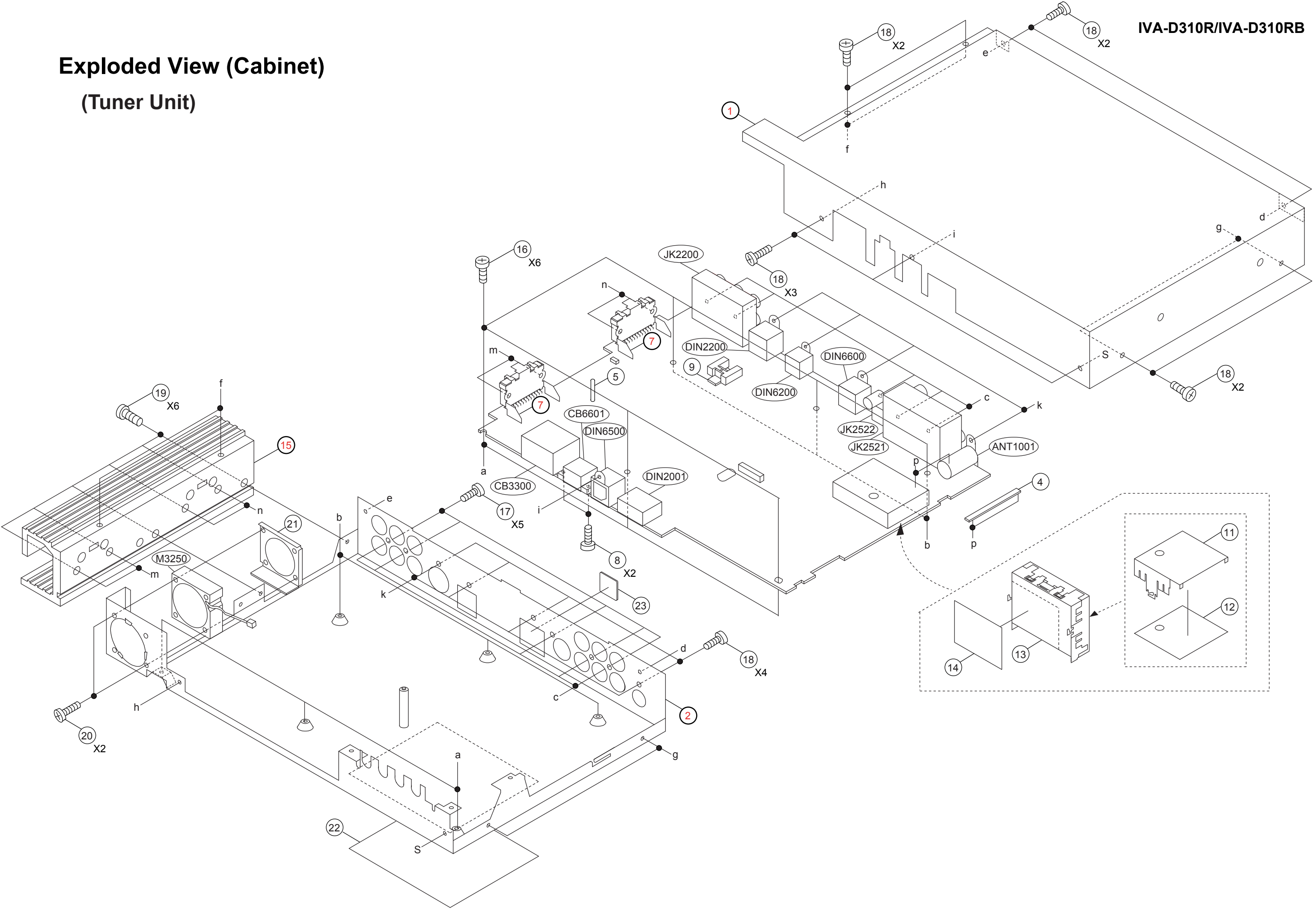
IVA-D310R/IVA-D310RB

No.	Symbol	I/O	Terminal Description
53	TV-MAIN(NC)	-	No connect terminal.
54	TV-PLL-LOCK(NC)		
55	TV-PLL-LATCH(NC)		
56	NC		
57	TV-V-SYNC(NC)		
58	NC		
59	TV-DIV-ON(NC)		
60	PORTVDD1	-	VDD terminal.
61	TV-P-ON(NC)	-	No connect terminal.
62	NC		
63			
64			
65	REM-OUT	O	Remote Control signal output terminal.
66	NC	-	No connect terminal.
67	OEM-SCL	I/O	OEM SUB DISP IIC CLOCK signal terminal.
68	OEM-SDA	I/O	OEM SUB DISP IIC DATA signal terminal.
69	NC	-	No connect terminal.
70	XT2(NC)		
71	XT1(PULL-DOWN)	-	Pull-down connect terminal.
72	GND2	-	GND terminal.
73	XT1	-	Main CLOCK connect terminal.
74	XT2		
75	NMI(NC)	-	No connect terminal.
76	AMP-PWM	O	AMP-Link PWM output terminal. (AMP-Link CLKOUT)
77	P-CONT	O	PWR-ON signal output terminal.
78	$\overline{\text{R-VMUTE1}}$	O	Rear Video MUTE signal (Monitor-1) terminal.
79	$\overline{\text{R-VMUTE2}}$	O	Rear Video MUTE signal (for VPE-S431) terminal.
80	$\overline{\text{M1-AMUTE}}$	O	Rear Audio MUTE signal (Monitor-1) terminal.
81	$\overline{\text{M2-AMUTE}}$	O	Rear Audio MUTE signal (for VPE-S431) terminal.
82	ACC-DET	I	ACC detection signal input terminal.
83	$\overline{\text{MONITOR-CONT}}$	I	Touch Panel correspondence Rear Monitor detection signal input terminal.
84	EXB-SDA	O	IIC BUS DATA output terminal to Extension Box.
85	$\overline{\text{DSP-RESET}}$	O	DSP RESET output signal terminal.
86	EXB-SCL	O	IIC BUS CLOCK output terminal to Extension Box.
87	PWR-IC CONT	O	PWR-IC power supply control output terminal.
88	M-CTL	O	Ai-NET power supply control signal output terminal.
89	AI-RS	O	Ai-NET register selection signal output terminal.
90	AI-R/W	O	Ai-NET read/write selection signal output terminal.
91	AI-RESET	O	Ai-NET BUS IC RESET signal output terminal.
92	PORTGND1	-	GND terminal.
93	AI-SCLK	O	CLOCK pulse signal output terminal for Ai-NET serial communication.
94	AI-SIN	I	Pulse signal input terminal for Ai-NET serial communication.
95	AI-SOUT	O	Pulse signal output terminal for Ai-NET serial communication.
96	$\overline{\text{AI-INT}}$	I	Ai-NET interruption request signal input terminal.
97	AMP-CLK	I	AMP-LINK serial CLOCK input terminal.
98	AMP-SI	I	AMP-LINK serial DATA input terminal.
99	AMP-SO	O	AMP-LINK serial DATA output terminal.
100	LPF1	O	LPF control signal output terminal. (H : at ST, L : at MONO)

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No.	Symbol	I/O	Terminal Description
101	LPF2	O	LPF control signal output terminal. (H : at MONO, L : at ST)
102	PORTVDD2	-	VDD terminal.
103	A-MUTE	O	Audio MUTE signal output terminal.
104	GUIDE-CONT	I	NAVI Video/Audio interruption signal terminal. (L : interrupt)
105	NRGB	I	NAVI RGB/NTSC detection signal terminal. (H : RGB, L : Composite)
106	SYS-RESET	O	System Regulator RESET output signal terminal.
107	RDS-RXD	I	RDS u-COM communication IS-BUS RX terminal.
108	RDS-TXD	O	RDS u-COM communication IS-BUS TX terminal.
109	RDS-FOUT	O	RDS u-COM communication IS-BUS FRAME signal output terminal.
110	RDS-FIN	I	RDS u-COM communication IS-BUS FRAME signal input terminal.
111	TER-SI(PULL-UP)	-	Pull-up connect terminal.
112	TER-SO(NC)	-	No connect terminal.
113	TER-CLK(NC)		
114	IN-INT	I	IN-INT input signal terminal.
115	REVERSE	I	Rear Camera signal input terminal.
116	IS-FIN	I	FRAME signal input terminal for u-COM communication between MAIN and FRONT.
117	IS-RX	I	RX signal input terminal for u-COM communication between MAIN and FRONT.
118	IS-TX	O	TX signal output terminal for u-COM communication between MAIN and FRONT.
119	IS-FOUT	O	FRAME signal output terminal for u-COM communication between MAIN and FRONT.
120	IS-REQ	O	RDS IS-BUS communication control output terminal. (L : communication permission to RDS u-COM)
121	P-ANT	O	P-ANT control signal output terminal.
122	H-PARK	I	Hand Brake input signal terminal. (H : vehicle stopping, L : vehicle running)
123	F-PARK(PULL-UP)	-	Pull-up connect terminal.
124	F-STBY	O	Stand-by signal output terminal to FRONT u-COM.
125	NC	-	No connect terminal.
I			
127			
128	VDD1	-	VDD terminal.
129	NC	-	No connect terminal.
130			
131	GND1	-	GND terminal.
132	DSP-SDA	O	IIC BUS DATA output terminal to DSP.
133	DSP-SCL	O	IIC BUS CLOCK output terminal to DSP.
134	NC	-	No connect terminal.
135	AREA1	I	AREA switching-1 terminal.
136	AREA2	I	AREA switching-2 terminal.
137	GND(PULL-DOWN)	-	Pull-down connect terminal.
138			
139			
140			
141			
142			
143	ADCVD	-	VDD terminal.
144	ADCGND	-	GND terminal.

Exploded View (Cabinet)
(Tuner Unit)

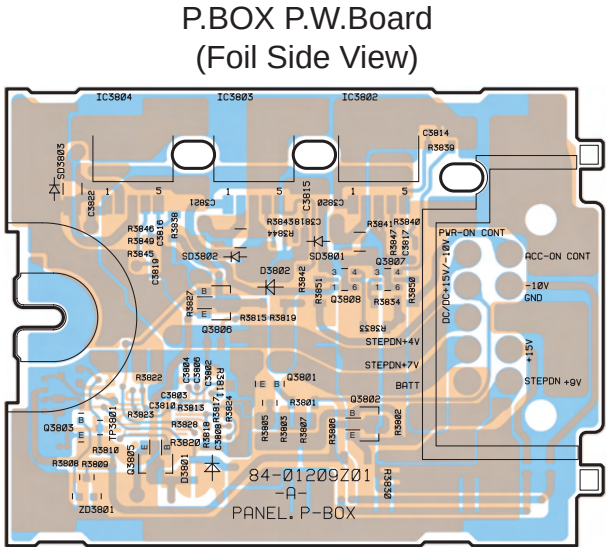
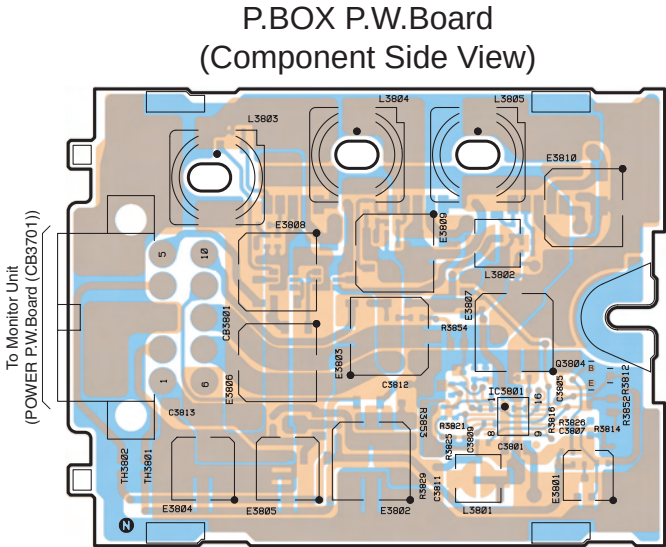


*** DC/DC Converter Unit Block**

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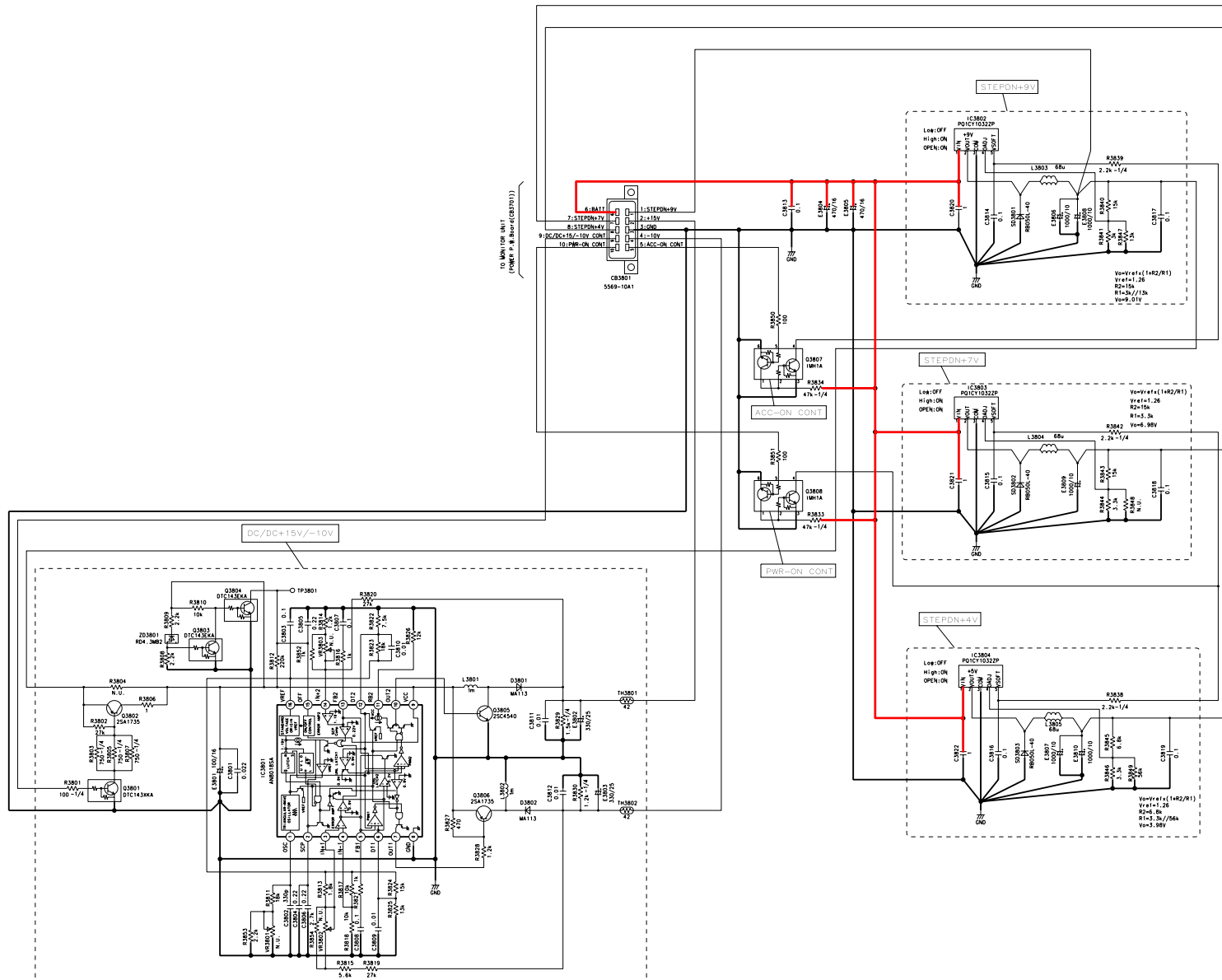
NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.



Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

Schematic Diagram

IVA-D310R/IVA-D310RB



P.BOX P.W.Board
NOTE:N.U.is Not Used Parts.

Terminal Voltage of IC/TR

<P.BOX P.W.Board>

IC3801					
1	0.49	PS	9	8.85	
2	0.06		10	0.39	PS
3	0.64		11	0.5	
4	0.65		12	0.36	
5	0.41		13	0.43	
6	0.6		14	1.21	
7	5.3	PS	15	1.81	
8	0		16	1.21	

IC3802		
1	14.29	
2	9.1	PS
3	0	
4	1.26	
5	6.83	

IC3803		
1	14.29	
2	7.12	PS
3	0	
4	1.26	
5	6.83	

IC3804		
1	14.29	
2	4.17	PS
3	0	
4	1.26	
5	6.83	

Ref. No.	E	B	C
Q3801	0	2.62	0.14
Q3802	8.97	8.2	8.93
Q3803	0	2.16	0
Q3804	0	0	1.82
Q3805	0	0.39(PS)	8.65(PS)
Q3806	8.85	8.43(PS)	0.48(PS)

Ref. No.	1	2	3	4	5	6
Q3807	0	0	0	6.83	4.07	0
Q3808	0	0	0	6.83	4.07	0

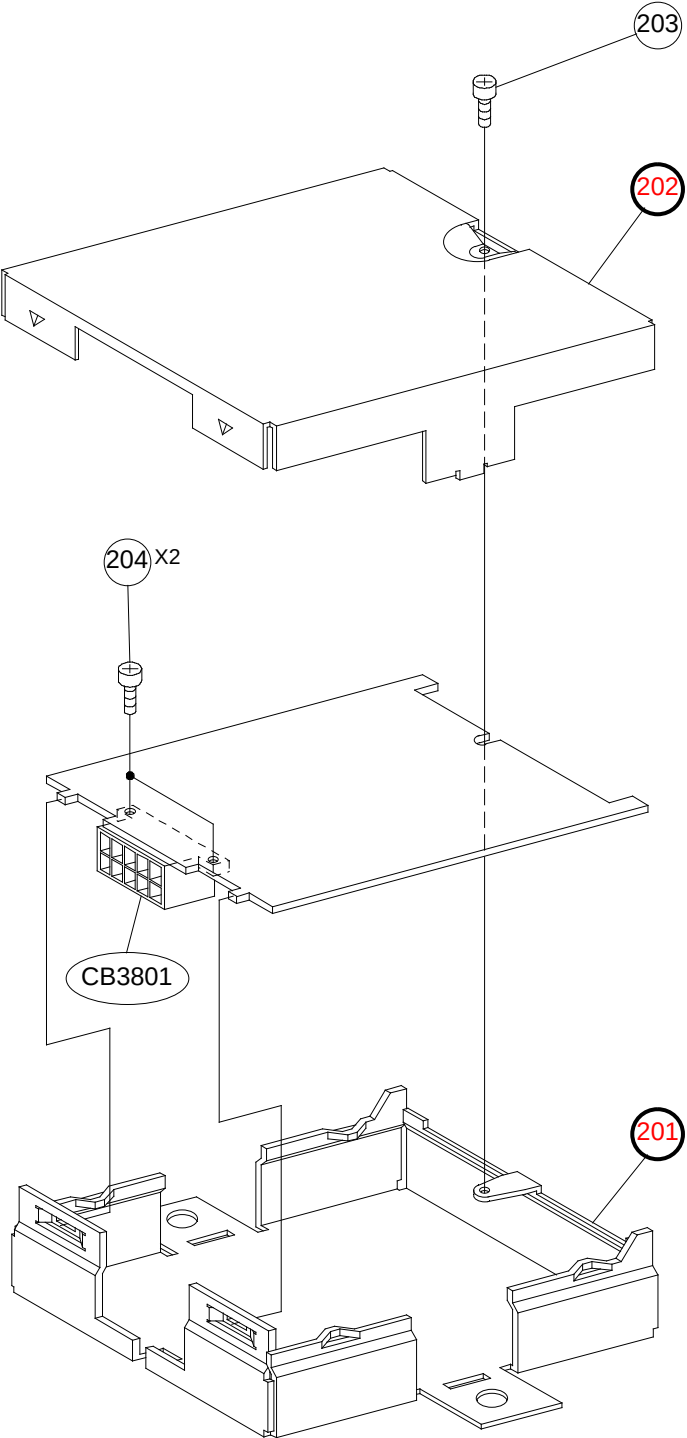
[Measuring Conditions]

- 1.Power Supply Voltage : DC14.4V
- 2.Measuring Meter : Digital Multi Meter
- 3.Measuring Point Reference : Between GND
- 4.Measuring Condition : at playing DVD

Exploded View (Cabinet)

(DC/DC Converter Unit)

IVA-D310R/IVA-D310RB



Cabinet Assembly Parts List (DC/DC Converter Unit)

NOTE : The part that has not PART NUMBER will not be supplied.

201	-----	CHAS,BASE POWER
202	-----	CHAS, TOP POWER
203	03S60822Y13	SCR,S-T 2.6X6 ZN A
204	03S63857F51	SCR,TPG M3X10

Cabinet Assembly Parts List (Tuner Unit)

NOTE : The part that has not PART NUMBER will not be supplied.

1	-----	COVER,TOP
2	-----	CHAS,BOTTOM
4	30A80079F04	SHIELD EARTH 40
5	09T84840F02	LUG,STYLE 32MM
7	-----	BKT,IC
8	03S63857F51	SCR,TPG M3X10
9	36A70327W01	KNOB,SLIDE
11	15C70386Y01	CASE,SHIELD(B)
12	14A41361Y01	INSLATOR,TUNER
13	15C70385Y01	CASE,SHIELD(A)
14	14S11351Y12	INS,CVR 44X32
15	-----	HEAT,SINK
16	03S60822Y28	SCR,S-T 2.6X5 ZN A
17	03S60824Y10	SCR,WEV 3X8 ZN A
18	03S60822Y12	SCR,S-T 2.6X6 ZN A
19	03S60822Y22	SCR,S-T 2.6X14 ZN A
20	03-00712Z29	SCR,MCH 2X14 ZBNA
21	07A02928K01	BKT,FAN
22	14S31545Y44	INS,CVR 80X75XT0.05
23	15T75525Y01	COVER,CONN.S431

Electrical Parts List

* Each parts on P.W.Board are described in order of the reference number.

NOTE : #1 : For IVA-D310R Model Only, \$1 : For IVA-D310RB Model Only,
Others : Common.

=====FRONT P.W.Board

BZ5301	50T15447Y02	BUZZER,PKM13EPY -R5
C3301	08S45539Y02	CAP,CER 222KX7R2J-CP
C3302	08T81833F11	CAP,CER 225K-B1C -CP
C3303	08S45676W80	CAP,CER 223K-B1E -CP
C3304	08S65674Y05	CAP,CER 105KX5R1C-CP
C3305	08S45676W85	CAP,CER 104K-B1C -CP
C3306	08S45676W85	CAP,CER 104K-B1C -CP
C3307	08S65128F69	CAP,CER.103K-B1H -CP
C3308	08S65128F69	CAP,CER.103K-B1H -CP
C3309	08S65670Y01	CAP,CER 106KX5R1C-CP
C3310	08S45676W80	CAP,CER 223K-B1E -CP
C3311	08S45676W80	CAP,CER 223K-B1E -CP
C3312	08S45676W80	CAP,CER 223K-B1E -CP
C3313	08S35374W07	CAP,CER 334K-B1C -CP
C3314	08S65670Y01	CAP,CER 106KX5R1C-CP
C3315	08S65670Y01	CAP,CER 106KX5R1C-CP
C3316	08S45676W80	CAP,CER 223K-B1E -CP
C3317	08S65670Y01	CAP,CER 106KX5R1C-CP
C3318	08S65128F69	CAP,CER.103K-B1H -CP
C3319	08S45676W80	CAP,CER 223K-B1E -CP
C3320	08S45676W80	CAP,CER 223K-B1E -CP
C3321	08S65670Y01	CAP,CER 106KX5R1C-CP
C3322	08S65670Y01	CAP,CER 106KX5R1C-CP
C3323	08S45676W85	CAP,CER 104K-B1C -CP
C3324	08S45676W89	CAP,CER 473K-B1E -CP
C3328	08S65128F69	CAP,CER.103K-B1H -CP
C3329	08S65128F69	CAP,CER.103K-B1H -CP
C3332	08S45676W80	CAP,CER 223K-B1E -CP
C3333	08S45676W80	CAP,CER 223K-B1E -CP
C3334	08S65670Y01	CAP,CER 106KX5R1C-CP
C3335	08S65670Y01	CAP,CER 106KX5R1C-CP
C3337	08S65670Y01	CAP,CER 106KX5R1C-CP
C3338	08S65670Y01	CAP,CER 106KX5R1C-CP
C3340	08S65670Y01	CAP,CER 106KX5R1C-CP
C3341	08S65670Y01	CAP,CER 106KX5R1C-CP
C3342	08S65670Y01	CAP,CER 106KX5R1C-CP
C4301	08S45676W85	CAP,CER 104K-B1C -CP
C4302	08S45677W36	CAP,CER.101J-CH1H-CP
C4303	08S45677W36	CAP,CER.101J-CH1H-CP
C4304	08S65670Y01	CAP,CER 106KX5R1C-CP
C4305	08S65670Y01	CAP,CER 106KX5R1C-CP
C4306	08S45676W80	CAP,CER 223K-B1E -CP
C4307	08S45677W36	CAP,CER.101J-CH1H-CP
C4308	08S45677W30	CAP,CER.56RJ-CH1H-CP
C4309	08S35349Y16	CAP,CER 105K-B1A -CP
C4310	08S45676W73	CAP,CER.103K-B1H -CP
C4311	08S45676W83	CAP,CER 473K-B1C -CP
C4312	08S45676W85	CAP,CER 104K-B1C -CP

IVA-D310R/IVA-D310RB

C4313	08S45677W05	CAP,CER.3R0C-CH1H-CP
C4314	08S45677W56	CAP,CER 681J-CH1H-CP
C4315	08S45676W73	CAP,CER.103K-B1H -CP
C4316	08T65555Y01	CAP,CER 226K-BJ0J-CP
C4317	08S45677W60	CAP,CER 102J-CH1H-CP
C4319	08S45676W85	CAP,CER 104K-B1C -CP
C4320	08S35349Y15	CAP,CER 474K-B1A -CP
C4321	08S65670Y01	CAP,CER 106KX5R1C-CP
C4322	08S65670Y01	CAP,CER 106KX5R1C-CP
C4323	08S45676W85	CAP,CER 104K-B1C -CP
C4324	08S65670Y01	CAP,CER 106KX5R1C-CP
C4325	08S45676W73	CAP,CER.103K-B1H -CP
C4326	08S45676W85	CAP,CER 104K-B1C -CP
C4327	08S45677W05	CAP,CER.3R0C-CH1H-CP
C4328	08S45677W60	CAP,CER 102J-CH1H-CP
C4329	08S35349Y16	CAP,CER 105K-B1A -CP
C4330	08S45676W73	CAP,CER.103K-B1H -CP
C4331	08S45676W85	CAP,CER 104K-B1C -CP
C4332	08T65555Y01	CAP,CER 226K-BJ0J-CP
C4333	08T65555Y01	CAP,CER 226K-BJ0J-CP
C4334	08S45676W85	CAP,CER 104K-B1C -CP
C4335	08S45677W36	CAP,CER.101J-CH1H-CP
C4336	08S45676W80	CAP,CER 223K-B1E -CP
C4337	08S45676W73	CAP,CER.103K-B1H -CP
C4338	08S35349Y16	CAP,CER 105K-B1A -CP
C4339	08S45677W22	CAP,CER.27RJ-CH1H-CP
C4340	08S45677W48	CAP,CER.331J-CH1H-CP
C4341	08S45676W73	CAP,CER.103K-B1H -CP
C4342	08S45676W73	CAP,CER.103K-B1H -CP
C4343	08S45676W73	CAP,CER.103K-B1H -CP
C4344	08S65670Y01	CAP,CER 106KX5R1C-CP
C4345	08S65670Y01	CAP,CER 106KX5R1C-CP
C4346	08S45677W60	CAP,CER 102J-CH1H-CP
C4347	08S65670Y01	CAP,CER 106KX5R1C-CP
C4348	08S35374W11	CAP,CER 475K-B0J -CP
C4349	08S45677W36	CAP,CER.101J-CH1H-CP
C4351	08S45676W80	CAP,CER 223K-B1E -CP
C4352	08S45676W80	CAP,CER 223K-B1E -CP
C4353	08S45676W80	CAP,CER 223K-B1E -CP
C4354	08S35374W11	CAP,CER 475K-B0J -CP
C4355	08S45676W80	CAP,CER 223K-B1E -CP
C4356	08S65670Y01	CAP,CER 106KX5R1C-CP
C4357	08S45676W80	CAP,CER 223K-B1E -CP
C4358	08S45677W36	CAP,CER.101J-CH1H-CP
C4359	08S45676W80	CAP,CER 223K-B1E -CP
C4360	08S35374W11	CAP,CER 475K-B0J -CP
C4361	08S35374W11	CAP,CER 475K-B0J -CP
C4362	08S35374W11	CAP,CER 475K-B0J -CP
C4363	08S35374W11	CAP,CER 475K-B0J -CP
C4364	08S45676W80	CAP,CER 223K-B1E -CP
C4365	08S45676W80	CAP,CER 223K-B1E -CP
C4366	08S35374W11	CAP,CER 475K-B0J -CP
C4367	08S35374W11	CAP,CER 475K-B0J -CP
C4368	08S35374W11	CAP,CER 475K-B0J -CP
C4369	08S45676W80	CAP,CER 223K-B1E -CP
C4370	08S60102F48	CAP,CER 105K-B1E -CP
C4371	08S45676W85	CAP,CER 104K-B1C -CP

IVA-D310R/IVA-D310RB

C4372	08S45676W80	CAP,CER 223K-B1E -CP
C4373	08S45676W80	CAP,CER 223K-B1E -CP
C4374	08S65670Y01	CAP,CER 106KX5R1C-CP
C4375	08S45676W80	CAP,CER 223K-B1E -CP
C4376	08S65670Y01	CAP,CER 106KX5R1C-CP
C4377	08S65670Y01	CAP,CER 106KX5R1C-CP
C4378	08S65670Y01	CAP,CER 106KX5R1C-CP
C4379	08S45676W85	CAP,CER 104K-B1C -CP
C4380	08S35349Y16	CAP,CER 105K-B1A -CP
C4381	08S45676W85	CAP,CER 104K-B1C -CP
C4382	08S65670Y01	CAP,CER 106KX5R1C-CP
C4383	08S45677W52	CAP,CER 471J-CH1H-CP
C4384	08S65670Y01	CAP,CER 106KX5R1C-CP
C4385	08S45677W52	CAP,CER 471J-CH1H-CP
C4386	08S45676W80	CAP,CER 223K-B1E -CP
C4387	08S35349Y16	CAP,CER 105K-B1A -CP
C4388	08S35349Y16	CAP,CER 105K-B1A -CP
C4389	08S45676W85	CAP,CER 104K-B1C -CP
C4390	08S45676W85	CAP,CER 104K-B1C -CP
C4391	08S45676W73	CAP,CER.103K-B1H -CP
C4392	08S45676W73	CAP,CER.103K-B1H -CP
C4393	08S45676W73	CAP,CER.103K-B1H -CP
C4394	08S45676W73	CAP,CER.103K-B1H -CP
C4395	08S65670Y01	CAP,CER 106KX5R1C-CP
C4396	08S45676W85	CAP,CER 104K-B1C -CP
C4397	08S45676W85	CAP,CER 104K-B1C -CP
C4398	08S45676W80	CAP,CER 223K-B1E -CP
C4399	08S35349Y16	CAP,CER 105K-B1A -CP
C4400	08S45677W48	CAP,CER.331J-CH1H-CP
C4401	08S35349Y16	CAP,CER 105K-B1A -CP
C4402	08S45676W85	CAP,CER 104K-B1C -CP
C4403	08S45677W28	CAP,CER 47RJ-CH1H-CP
C4404	08S45677W28	CAP,CER 47RJ-CH1H-CP
C4405	08S45677W28	CAP,CER 47RJ-CH1H-CP
C4900	08S45676W80	CAP,CER 223K-B1E -CP
C4901	08S45676W91	CAP,CER 154K-B1A -CP
C4902	08S60102F48	CAP,CER 105K-B1E -CP
C4903	08S45677W36	CAP,CER.101J-CH1H-CP
C4905	08S45677W38	CAP,CER 121J-CH1H-CP
C4907	08S45676W80	CAP,CER 223K-B1E -CP
C4908	08S45676W80	CAP,CER 223K-B1E -CP
C4909	08S45676W85	CAP,CER 104K-B1C -CP
C4910	08S45676W80	CAP,CER 223K-B1E -CP
C4911	08S45676W80	CAP,CER 223K-B1E -CP
C4912	08S65670Y01	CAP,CER 106KX5R1C-CP
C4913	08S65670Y01	CAP,CER 106KX5R1C-CP
C4914	08S45676W80	CAP,CER 223K-B1E -CP
C4915	08S45676W80	CAP,CER 223K-B1E -CP
C4916	08S65670Y01	CAP,CER 106KX5R1C-CP
C4917	08S45676W73	CAP,CER.103K-B1H -CP
C4918	08S45676W85	CAP,CER 104K-B1C -CP
C4919	08S45676W73	CAP,CER.103K-B1H -CP
C4920	08S45676W85	CAP,CER 104K-B1C -CP
C5303	08S45676W80	CAP,CER 223K-B1E -CP
C5304	08S45676W73	CAP,CER.103K-B1H -CP
C5305	08S45676W73	CAP,CER.103K-B1H -CP
C5306	08S45677W60	CAP,CER 102J-CH1H-CP

IVA-D310R/IVA-D310RB

C5307	08S45676W73	CAP,CER.103K-B1H -CP
C5308	08S45676W73	CAP,CER.103K-B1H -CP
C5309	08S45677W11	CAP,CER.9R0D-CH1H-CP
C5310	08S45677W14	CAP,CER.12RJ-CH1H-CP
C5311	08S45676W73	CAP,CER.103K-B1H -CP
C5312	08S45676W73	CAP,CER.103K-B1H -CP
C5313	08S60102F48	CAP,CER.105K-B1E -CP
C5315	08S45677W20	CAP,CER.22RJ-CH1H-CP
C5316	08S45677W18	CAP,CER.18RJ-CH1H-CP
C5317	08S45677W60	CAP,CER.102J-CH1H-CP
C5318	08S45677W60	CAP,CER.102J-CH1H-CP
C5319	08S45677W60	CAP,CER.102J-CH1H-CP
C5320	08S45677W60	CAP,CER.102J-CH1H-CP
C5321	08S45677W60	CAP,CER.102J-CH1H-CP
C5322	08S45677W60	CAP,CER.102J-CH1H-CP
C5323	08S45676W85	CAP,CER.104K-B1C -CP
C5324	08S45676W85	CAP,CER.104K-B1C -CP
C5326	08S45676W73	CAP,CER.103K-B1H -CP
C5327	08S45676W73	CAP,CER.103K-B1H -CP
C5328	08S45676W80	CAP,CER.223K-B1E -CP
C5329	08S45676W80	CAP,CER.223K-B1E -CP
C5330	08S45677W60	CAP,CER.102J-CH1H-CP
C5331	08S65128F78	CAP,CER.223K-B1H -CP
C6301	08S45676W85	CAP,CER.104K-B1C -CP
C6302	08S45676W65	CAP,CER.222K-B1H -CP
C6303	08S65670Y01	CAP,CER.106KX5R1C-CP
C6304	08S45676W85	CAP,CER.104K-B1C -CP
C6305	08S65670Y01	CAP,CER.106KX5R1C-CP
C6306	08S45676W73	CAP,CER.103K-B1H -CP
C6307	08S45676W80	CAP,CER.223K-B1E -CP
C6308	08S45677W60	CAP,CER.102J-CH1H-CP
C6309	08S45677W60	CAP,CER.102J-CH1H-CP
C6310	08S65670Y01	CAP,CER.106KX5R1C-CP
C6311	08S65670Y01	CAP,CER.106KX5R1C-CP
C6312	08S65670Y01	CAP,CER.106KX5R1C-CP
C6313	08S65670Y01	CAP,CER.106KX5R1C-CP
C6314	08S60102F48	CAP,CER.105K-B1E -CP
C6315	08S45677W60	CAP,CER.102J-CH1H-CP
C6316	08S45677W60	CAP,CER.102J-CH1H-CP
C6319	08S45677W18	CAP,CER.18RJ-CH1H-CP
C6320	08S45677W18	CAP,CER.18RJ-CH1H-CP
C6321	08S45677W18	CAP,CER.18RJ-CH1H-CP
C6322	08S45677W18	CAP,CER.18RJ-CH1H-CP
C6326	08T65555Y01	CAP,CER.226K-BJ0J-CP
C6327	08S45676W80	CAP,CER.223K-B1E -CP
C6328	08S45676W80	CAP,CER.223K-B1E -CP
C6329	08S65676Y02	CAP,CER.475KX7R1A-CP
C6330	08S45676W85	CAP,CER.104K-B1C -CP
C6331	08S45676W80	CAP,CER.223K-B1E -CP
C6332	08S45676W80	CAP,CER.223K-B1E -CP
C6333	08S45676W80	CAP,CER.223K-B1E -CP
C6334	08S45676W80	CAP,CER.223K-B1E -CP
C6335	08S45676W80	CAP,CER.223K-B1E -CP
C6336	08S45676W80	CAP,CER.223K-B1E -CP
C6340	08T65555Y01	CAP,CER.226K-BJ0J-CP
C6341	08T65231Y02	CAP,CER.476M-BJ0J-CP
C6342	08T65231Y02	CAP,CER.476M-BJ0J-CP

IVA-D310R/IVA-D310RB

C6343	08T65555Y01	CAP,CER 226K-BJ0J-CP
C6344	08T65555Y01	CAP,CER 226K-BJ0J-CP
C6345	08T65555Y01	CAP,CER 226K-BJ0J-CP
C6346	08T65555Y01	CAP,CER 226K-BJ0J-CP
C6347	08T65555Y01	CAP,CER 226K-BJ0J-CP
C6348	08T65555Y01	CAP,CER 226K-BJ0J-CP
C6349	08T65555Y01	CAP,CER 226K-BJ0J-CP
C6350	08T65555Y01	CAP,CER 226K-BJ0J-CP
C6352	08S45676W80	CAP,CER 223K-B1E -CP
C7006	08S45232Y07	CAP,CER 222K-B1H -CP
C7007	08S45232Y07	CAP,CER 222K-B1H -CP
C7009	08S45676W65	CAP,CER.222K-B1H -CP
C7010	08S45676W80	CAP,CER 223K-B1E -CP
C7013	08S45676W80	CAP,CER 223K-B1E -CP
C7014	08S45676W80	CAP,CER 223K-B1E -CP
C7015	08S45676W80	CAP,CER 223K-B1E -CP
C7016	08T65463Y01	CAP,CER 335K-B1A -CP
C7017	08T65463Y01	CAP,CER 335K-B1A -CP
C7018	08S45677W52	CAP,CER 471J-CH1H-CP
C7019	08S45677W52	CAP,CER 471J-CH1H-CP
C7020	08S45677W38	CAP,CER 121J-CH1H-CP
C7021	08S45677W38	CAP,CER 121J-CH1H-CP
C7022	08S45677W42	CAP,CER.181J-CH1H-CP
C7023	08S45677W42	CAP,CER.181J-CH1H-CP
C7024	08S45677W16	CAP,CER.15RJ-CH1H-CP
C7025	08S45677W16	CAP,CER.15RJ-CH1H-CP
C7026	08S45676W80	CAP,CER 223K-B1E -CP
C7027	08S45676W80	CAP,CER 223K-B1E -CP
C7028	08T81833F13	CAP,CER 106K-B1C -CP
C7029	08T81833F13	CAP,CER 106K-B1C -CP
C7030	08T81833F13	CAP,CER 106K-B1C -CP
C7031	08S45676W80	CAP,CER 223K-B1E -CP
C7033	08S45232Y07	CAP,CER 222K-B1H -CP
C7034	08S45232Y07	CAP,CER 222K-B1H -CP
C7035	08S45232Y07	CAP,CER 222K-B1H -CP
C7036	08T81833F12	CAP,CER 106K-B1A -CP
C7037	08T81833F12	CAP,CER 106K-B1A -CP
C7038	08T81833F10	CAP,CER 106K-B0J -CP
CB3301	09T55048Y26	BTB,IMSA9856B-26Y-EZ
CB5301	09T15536Y20	FFC,FH12-20S-0.5S-E9
CB6301	09T85454W03	WTB,53398-0390 -E6
CB6302	09T85454W13	WTB,53398-1390 -ED
CB6303	09T85454W15	WTB,53398-1590 -EQ
CB6304	09T75225Y50	FFC,51374-5093 -ER
CB6305	09T75225Y15	FFC,51374-1593 -E7
CB7001	09T45391Y45	FFC,IMSA9632S-45Y-EQ
CB7002	09T15107Y24	FFC,52435-2491 -ED
D5301	48T25665Y01	DIO,1SS355-TE17 -CP
D6301	48T94608F03	DIO,CP .DAN202U(MIN)
D6302	48T25274Y01	DIO,MA4S159-TX -CP
D6303	48T25274Y01	DIO,MA4S159-TX -CP
E3302	23S65134W15	CAP,ELY 331-0J(8)-E6
E6311	23S75244Y20	CAP,ELY 221-1C -E6
F6301	65T75074Y06	FUSE,TF16SN 1.00A-CP
IC3301	51T15724Y04	AN79L05M-E1 -NE2
IC3302	51T45659Y02	BA00BC0WFP-E2 -NE5
IC3303	51T95193W01	TDA3606AT -SE9

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IC3304	51T25259Y03	BA00ASFP-E2	-NE5
IC3305	51T75197W07	AN77L07M-E1	-NE2
IC3306	51T25259Y03	BA00ASFP-E2	-NE5
IC3307	51T65016Y30	S-80942CNMC-T2	-CP
IC3309	51T25259Y03	BA00ASFP-E2	-NE5
IC3310	51T25259Y03	BA00ASFP-E2	-NE5
IC4301	51T25404Y02	TC7W53FU-TE12L	-SE1
IC4302	51T65666Y02	NJM2880U33-TE1	-NE2
IC4303	51T15567Y01	NJM2535V-TE2	-SE2
IC4304	51T65096Y02	NJM2529FH1	-QT
IC4305	51T25151Y01	TC74VHC221AFS-EL	-SE5
IC4306	51T75430Y01	BU2505FV-E2	-SE2
IC4307	51T25366Y01	TC7WH32FU-TE12L	-SE1
IC4310	51T25151Y01	TC74VHC221AFS-EL	-SE5
IC4311	51T25407Y02	BA7606FS-E2	-SE5
IC4312	51T65562Y02	LC74735NWH-9871-E-QT	
IC4313	51T15193Y01	TC74VHCT00AFT-EL	-SE5
IC4314	51-02222Z05	MBM29LV400BC-90A05ST	
IC4900	51T15523Y01	TLC2932	-SE5
IC4901	51T35464Y01	TC74VHC4040FT-EL	-SE5
IC4902	51T15191Y01	TC74VHC08FT-EL	-SE5
IC4903	51T15206Y01	TC7WH04FU-TE12L	-SE1
IC4904	51T35360Y01	TC7WH08FU-L	-SE1
IC4905	51T25473Y01	TC7S32FU-TE85L	-CP
IC4906	51T65414Y02	NJM2871F03-TE1	-CP
IC4909	51T15763Y01	TC7W74FU-TE12L	-SE1
IC5301	51T15192Y01	TC74VHC14FT-EL	-SE5
IC5302	51-04220Z01	IC,D703068YGJ-130-QT	
IC6301	51T25183Y02	TC7SET08FU-EL	-CP
IC6302	51T93532F05	TC4S01F-TE85L	-CP
IC6303	51T15185Y01	TC7SH08FU-TE85L	-CP
IC6304	51T95552W01	HA12187FP-EL	-SE2
IC6305	51T95552W01	HA12187FP-EL	-SE2
IC6306	51T15190Y01	TC74VHC04FT-EL	-SE5
IC6307	51T75388Y01	TK15445L-L	-SE2
IC6308	51T75628W02	BA6285AFP-Y-E2	-SE9
IC6309	51T75628W02	BA6285AFP-Y-E2	-SE9
IC6310	51T15194Y01	TC74VHCT08AFT-EL	-SE5
IC7001	51T55240Y01	PCM1742KE	-SE2
IC7002	51T15191Y01	TC74VHC08FT-EL	-SE5
IC7004	51T15194Y01	TC74VHCT08AFT-EL	-SE5
IC7005	51T25576W07	NJM4580V-TE2	-SE2
IC7007	51T25183Y02	TC7SET08FU-EL	-CP
L4301	24T25164Y25	IND,FSLM2520 10RJ-CP	
L4302	24T25164Y25	IND,FSLM2520 10RJ-CP	
L4303	24T25164Y25	IND,FSLM2520 10RJ-CP	
L4304	24T25164Y35	IND,FSLM2520 68RJ-CP	
L4305	24T25164Y25	IND,FSLM2520 10RJ-CP	
L4900	24T95456W12	FBI,BLM18AG102SH1-CP	
L4901	24T95456W12	FBI,BLM18AG102SH1-CP	
L4904	24T95456W12	FBI,BLM18AG102SH1-CP	
L7001	24T65689Y01	FBI,FBMJ2125HS420-CP	
L7002	24T65689Y01	FBI,FBMJ2125HS420-CP	
L7003	24T95456W27	FBI,BLM18PG181SH1-CP	
L7004	24T95456W27	FBI,BLM18PG181SH1-CP	
Q3302	48T75205Y01	TR,FMC2A-T148	-CP
Q3303	48T25736Y01	TR,UMC2N-TR	-CP

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Q3306	48T75011W01	TR,2SD1782K-PQR-6-CP
Q3307	48T75205Y01	TR,FMC2A-T148 -CP
Q3308	48T75205Y01	TR,FMC2A-T148 -CP
Q3309	48T75205Y01	TR,FMC2A-T148 -CP
Q3310	48T75205Y01	TR,FMC2A-T148 -CP
Q3312	48T75011W01	TR,2SD1782K-PQR-6-CP
Q3313	48T63419F04	TR,CP.2SA1036K-HR-96
Q3314	48T94606F03	TR,DTC124EUA-T106-CP
Q3315	48T45388Y03	TR,2SA1797-Q-T100-E2
Q3316	48T94606F09	TR,DTC143XUA-T106-CP
Q4301	48T65135Y03	TR,2SA1298-Y-85L -CP
Q4302	48T65136Y03	TR,2SC3265-Y-85L -CP
Q4303	48T94581F01	TR,2SA1576A-T106 -CP
Q4307	48T94606F05	TR,DTC114TUA-T106-CP
Q4315	48T75205Y01	TR,FMC2A-T148 -CP
Q5301	48T94606F08	TR,DTC143EUA-T106-CP
Q5302	48T94606F01	TR,DTC144EUA-T106-CP
Q5303	48T63419F04	TR,CP.2SA1036K-HR-96
Q5305	48T75205Y02	TR,FMC3A-T148 -CP
Q5306	48T62967F02	TR,DTC114EKA-T146-CP
Q6301	48T94606F06	TR,DTC114EUA-T106-CP
Q6302	48T94581F01	TR,2SA1576A-T106 -CP
Q6303	48T94582F01	TR ,CP 2SC4081-Q
Q6304	48T94582F01	TR ,CP 2SC4081-Q
Q6305	48T94582F01	TR ,CP 2SC4081-Q
Q6306	48T94582F01	TR ,CP 2SC4081-Q
Q6307	48T94582F01	TR ,CP 2SC4081-Q
Q6308	48T94581F01	TR,2SA1576A-T106 -CP
Q6309	48T94581F01	TR,2SA1576A-T106 -CP
Q6310	48T94581F01	TR,2SA1576A-T106 -CP
Q6311	48T94581F01	TR,2SA1576A-T106 -CP
Q6312	48T94581F01	TR,2SA1576A-T106 -CP
Q6313	48T94582F01	TR ,CP 2SC4081-Q
Q6314	48T94582F01	TR ,CP 2SC4081-Q
Q6315	48T94582F01	TR ,CP 2SC4081-Q
Q6316	48T94582F01	TR ,CP 2SC4081-Q
Q6317	48T94582F01	TR ,CP 2SC4081-Q
Q6318	48T25137Y01	TR,UN9211J-TX -CP
Q6319	48T94582F01	TR ,CP 2SC4081-Q
R3301	06S55365Y81	RES,RK 472J 1/10 -CP
R3302	06S35083Y50	RES,RK 124F 1/4 -CP
R3303	06S45348Y35	RES,RK 364F 1/4 -CP
R3304	06S55361Y65	RES,RK 102J 1/4 -CP
R3306	06S55364Y08	RES,RK 563J 1/8 -CP
R3312	06S15593Y72	RES,RK 912F 1/10 -CP
R3313	06S15593Y41	RES,RK 471F 1/10 -CP
R3314	06S15593Y66	RES,RK 512F 1/10 -CP
R3315	06S15593Y70	RES,RK 752F 1/10 -CP
R3316	06S15593Y40	RES,RK 431F 1/10 -CP
R3317	06S15593Y56	RES,RK 202F 1/10 -CP
R3318	06S55366Y06	RES,RK 473J 1/10 -CP
R3323	06S15593Y71	RES,RK 822F 1/10 -CP
R3324	06S15593Y33	RES,RK 221F 1/10 -CP
R3325	06S15593Y58	RES,RK 242F 1/10 -CP
R3326	06S55366Y06	RES,RK 473J 1/10 -CP
R3327	06S15593Y63	RES,RK 392F 1/10 -CP
R3329	06S15593Y73	RES,RK 103F 1/10 -CP

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R3330	06S55365Y75	RES,RK 272J 1/10 -CP
R3331	06S15593Y71	RES,RK 822F 1/10 -CP
R3332	06S15593Y39	RES,RK 391F 1/10 -CP
R3333	06S15593Y57	RES,RK 222F 1/10 -CP
R3334	06S15593Y77	RES,RK 153F 1/10 -CP
R3335	06S55366Y39	RES,RK JUMPER1/10-CP
R3336	06S15593Y59	RES,RK 272F 1/10 -CP
R3337	06S55365Y97	RES,RK 223J 1/10 -CP
R3338	06S55365Y97	RES,RK 223J 1/10 -CP
R3339	06S55365Y97	RES,RK 223J 1/10 -CP
R3340	06S55365Y73	RES,RK 222J 1/10 -CP
R3341	06S55365Y97	RES,RK 223J 1/10 -CP
R3343	06S55365Y97	RES,RK 223J 1/10 -CP
R3344	06S55366Y39	RES,RK JUMPER1/10-CP
R3346	06S55366Y39	RES,RK JUMPER1/10-CP
R3349	06S55361Y63	RES,RK 821J 1/4 -CP
R3350	06S55361Y63	RES,RK 821J 1/4 -CP
R3351	06S55361Y63	RES,RK 821J 1/4 -CP
R3352	06S55361Y63	RES,RK 821J 1/4 -CP
R3354	06S55365Y98	RES,RK 243J 1/10 -CP
R3356	06S55361Y79	RES,RK 392J 1/4 -CP
R3357	06S55361Y79	RES,RK 392J 1/4 -CP
R3358	06S55361Y79	RES,RK 392J 1/4 -CP
R3359	06S55361Y79	RES,RK 392J 1/4 -CP
R4301	06S55365Y67	RES,RK 122J 1/10 -CP
R4302	06S55365Y65	RES,RK 102J 1/10 -CP
R4303	06S55365Y33	RES,RK 47RJ 1/10 -CP
R4304	06S55361Y01	RES,RK 2R2J 1/4 -CP
R4305	06S55361Y01	RES,RK 2R2J 1/4 -CP
R4306	06S55365Y33	RES,RK 47RJ 1/10 -CP
R4307	06S55366Y06	RES,RK 473J 1/10 -CP
R4308	06S15593Y75	RES,RK 123F 1/10 -CP
R4309	06S55366Y06	RES,RK 473J 1/10 -CP
R4310	06S55366Y38	RES,RK 105J 1/10 -CP
R4311	06S45675W42	RES,RK 106J 1/10 -CP
R4312	06S55365Y87	RES,RK 822J 1/10 -CP
R4313	06S55365Y71	RES,RK 182J 1/10 -CP
R4314	06S55365Y83	RES,RK 562J 1/10 -CP
R4315	06S55366Y38	RES,RK 105J 1/10 -CP
R4318	06S55365Y41	RES,RK 101J 1/10 -CP
R4319	06S55365Y58	RES,RK 511J 1/10 -CP
R4320	06S15593Y49	RES,RK 102F 1/10 -CP
R4321	06S15593Y51	RES,RK 122F 1/10 -CP
R4322	06S55365Y54	RES,RK 361J 1/10 -CP
R4323	06S55366Y37	RES,RK 914J 1/10 -CP
R4324	06S55366Y37	RES,RK 914J 1/10 -CP
R4327	06S55365Y81	RES,RK 472J 1/10 -CP
R4328	06S55365Y67	RES,RK 122J 1/10 -CP
R4329	06S55365Y67	RES,RK 122J 1/10 -CP
R4330	06S15593Y61	RES,RK 332F 1/10 -CP
R4331	06S55365Y81	RES,RK 472J 1/10 -CP
R4332	06S55365Y81	RES,RK 472J 1/10 -CP
R4333	06S15593Y75	RES,RK 123F 1/10 -CP
R4334	06S55365Y81	RES,RK 472J 1/10 -CP
R4335	06S55365Y41	RES,RK 101J 1/10 -CP
R4336	06S55365Y41	RES,RK 101J 1/10 -CP
R4337	06S55365Y41	RES,RK 101J 1/10 -CP

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	R4342	06S55365Y41	RES,RK 101J 1/10 -CP
	R4344	06S55365Y41	RES,RK 101J 1/10 -CP
	R4345	06S55366Y39	RES,RK JUMPER1/10-CP
	R4346	06S55365Y41	RES,RK 101J 1/10 -CP
	R4349	06S55365Y41	RES,RK 101J 1/10 -CP
	R4350	06S55365Y41	RES,RK 101J 1/10 -CP
	R4351	06S55365Y41	RES,RK 101J 1/10 -CP
	R4354	06S55365Y77	RES,RK 332J 1/10 -CP
	R4356	06S55365Y89	RES,RK 103J 1/10 -CP
	R4358	06S55365Y41	RES,RK 101J 1/10 -CP
	R4359	06S55365Y41	RES,RK 101J 1/10 -CP
	R4360	06S55365Y41	RES,RK 101J 1/10 -CP
	R4363	06S55366Y39	RES,RK JUMPER1/10-CP
	R4367	06S55365Y41	RES,RK 101J 1/10 -CP
	R4368	06S15593Y50	RES,RK 112F 1/10 -CP
	R4370	06S55365Y49	RES,RK 221J 1/10 -CP
	R4371	06S55365Y49	RES,RK 221J 1/10 -CP
	R4372	06S55365Y49	RES,RK 221J 1/10 -CP
	R4373	06S55365Y74	RES,RK 242J 1/10 -CP
	R4374	06S55366Y39	RES,RK JUMPER1/10-CP
	R4375	06S55366Y39	RES,RK JUMPER1/10-CP
	R4376	06S55366Y39	RES,RK JUMPER1/10-CP
	R4381	06S55366Y06	RES,RK 473J 1/10 -CP
	R4385	06S55365Y65	RES,RK 102J 1/10 -CP
	R4387	06S55365Y41	RES,RK 101J 1/10 -CP
	R4388	06S55365Y41	RES,RK 101J 1/10 -CP
	R4900	06S15593Y58	RES,RK 242F 1/10 -CP
	R4901	06S15593Y46	RES,RK 751F 1/10 -CP
	R4902	06S15593Y33	RES,RK 221F 1/10 -CP
	R4904	06S55365Y45	RES,RK 151J 1/10 -CP
	R4905	06S15615Y25	RES,RK 101J 1/16 -CP
	R4906	06S15615Y25	RES,RK 101J 1/16 -CP
	R4907	06S15615Y25	RES,RK 101J 1/16 -CP
	R4908	06S15615Y25	RES,RK 101J 1/16 -CP
	R4909	06S15615Y25	RES,RK 101J 1/16 -CP
	R4910	06S15615Y25	RES,RK 101J 1/16 -CP
	R4911	06S15615Y25	RES,RK 101J 1/16 -CP
	R4912	06S15615Y25	RES,RK 101J 1/16 -CP
	R4913	06S15615Y25	RES,RK 101J 1/16 -CP
	R4914	06S15594Y06	RES,RK 224F 1/10 -CP
	R4915	06S55365Y41	RES,RK 101J 1/10 -CP
	R4916	06S15615Y25	RES,RK 101J 1/16 -CP
	R4917	06S15615Y25	RES,RK 101J 1/16 -CP
	R4918	06S15615Y25	RES,RK 101J 1/16 -CP
	R5301	06S55361Y73	RES,RK 222J 1/4 -CP
	R5302	06S55361Y33	RES,RK 47RJ 1/4 -CP
	R5303	06S55361Y89	RES,RK 103J 1/4 -CP
	R5304	06S55366Y39	RES,RK JUMPER1/10-CP
	R5306	06S55365Y97	RES,RK 223J 1/10 -CP
	R5308	06S55366Y39	RES,RK JUMPER1/10-CP
\$1	R5309	06S55365Y89	RES,RK 103J 1/10 -CP
#1	R5310	06S55365Y89	RES,RK 103J 1/10 -CP
#1	R5311	06S55365Y89	RES,RK 103J 1/10 -CP
\$1	R5312	06S55365Y89	RES,RK 103J 1/10 -CP
	R5313	06S15593Y63	RES,RK 392F 1/10 -CP
	R5314	06S55365Y41	RES,RK 101J 1/10 -CP
	R5315	06S55365Y41	RES,RK 101J 1/10 -CP

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R5316	06S55363Y65	RES,RK 102J 1/8 -CP
R5319	06S55365Y41	RES,RK 101J 1/10 -CP
R5320	06S55365Y41	RES,RK 101J 1/10 -CP
R5321	06S55365Y41	RES,RK 101J 1/10 -CP
R5322	06S55365Y41	RES,RK 101J 1/10 -CP
R5323	06S55365Y41	RES,RK 101J 1/10 -CP
R5324	06S55365Y89	RES,RK 103J 1/10 -CP
R5325	06S55365Y89	RES,RK 103J 1/10 -CP
R5326	06S55365Y41	RES,RK 101J 1/10 -CP
R5328	06S55365Y41	RES,RK 101J 1/10 -CP
R5330	06S55366Y06	RES,RK 473J 1/10 -CP
R5331	06S55365Y41	RES,RK 101J 1/10 -CP
R5332	06S55365Y41	RES,RK 101J 1/10 -CP
R5333	06S55365Y41	RES,RK 101J 1/10 -CP
R5334	06S55365Y41	RES,RK 101J 1/10 -CP
R5335	06S55365Y41	RES,RK 101J 1/10 -CP
R5336	06S55365Y41	RES,RK 101J 1/10 -CP
R5337	06S55365Y41	RES,RK 101J 1/10 -CP
R5340	06S55365Y41	RES,RK 101J 1/10 -CP
R5341	06S55365Y41	RES,RK 101J 1/10 -CP
R5342	06S55365Y41	RES,RK 101J 1/10 -CP
R5344	06S55365Y41	RES,RK 101J 1/10 -CP
R5345	06S55365Y41	RES,RK 101J 1/10 -CP
R5353	06S55361Y57	RES,RK 471J 1/4 -CP
R5355	06S55365Y89	RES,RK 103J 1/10 -CP
R5356	06S55361Y65	RES,RK 102J 1/4 -CP
R5357	06S15593Y73	RES,RK 103F 1/10 -CP
R5358	06S55365Y41	RES,RK 101J 1/10 -CP
R5360	06S55366Y14	RES,RK 104J 1/10 -CP
R5361	06S55365Y97	RES,RK 223J 1/10 -CP
R5362	06S55366Y06	RES,RK 473J 1/10 -CP
R5364	06S55366Y06	RES,RK 473J 1/10 -CP
R5366	06S55366Y06	RES,RK 473J 1/10 -CP
R5368	06S55366Y06	RES,RK 473J 1/10 -CP
R5372	06S55366Y06	RES,RK 473J 1/10 -CP
R5373	06S55365Y81	RES,RK 472J 1/10 -CP
R5374	06S55365Y81	RES,RK 472J 1/10 -CP
R5375	06S55363Y89	RES,RK 103J 1/8 -CP
R5383	06S55365Y59	RES,RK 561J 1/10 -CP
R5384	06S55365Y41	RES,RK 101J 1/10 -CP
R5385	06S55365Y41	RES,RK 101J 1/10 -CP
R5386	06S55365Y41	RES,RK 101J 1/10 -CP
R5387	06S55365Y41	RES,RK 101J 1/10 -CP
R5388	06S55365Y41	RES,RK 101J 1/10 -CP
R5389	06S15593Y73	RES,RK 103F 1/10 -CP
R5390	06S55363Y65	RES,RK 102J 1/8 -CP
R5391	06S55366Y06	RES,RK 473J 1/10 -CP
R5392	06S55365Y41	RES,RK 101J 1/10 -CP
R5393	06S55365Y41	RES,RK 101J 1/10 -CP
R5394	06S55365Y97	RES,RK 223J 1/10 -CP
R5395	06S55365Y97	RES,RK 223J 1/10 -CP
R5397	06S55365Y89	RES,RK 103J 1/10 -CP
R5398	06S55365Y73	RES,RK 222J 1/10 -CP
R5401	06S55361Y33	RES,RK 47RJ 1/4 -CP
R6301	06S55361Y29	RES,RK 33RJ 1/4 -CP
R6304	06S55365Y97	RES,RK 223J 1/10 -CP
R6305	06S55366Y31	RES,RK 514J 1/10 -CP

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R6306	06S55365Y77	RES,RK 332J 1/10 -CP
R6307	06S15593Y49	RES,RK 102F 1/10 -CP
R6308	06S55365Y73	RES,RK 222J 1/10 -CP
R6309	06S55365Y97	RES,RK 223J 1/10 -CP
R6310	06S55366Y30	RES,RK 474J 1/10 -CP
R6311	06S55361Y30	RES,RK 36RJ 1/4 -CP
R6312	06S55361Y31	RES,RK 39RJ 1/4 -CP
R6313	06S55361Y30	RES,RK 36RJ 1/4 -CP
R6314	06S55361Y31	RES,RK 39RJ 1/4 -CP
R6315	06S55361Y30	RES,RK 36RJ 1/4 -CP
R6316	06S55361Y31	RES,RK 39RJ 1/4 -CP
R6317	06S55361Y30	RES,RK 36RJ 1/4 -CP
R6318	06S55361Y31	RES,RK 39RJ 1/4 -CP
R6319	06S55361Y37	RES,RK 68RJ 1/4 -CP
R6320	06S55361Y37	RES,RK 68RJ 1/4 -CP
R6321	06S15593Y89	RES,RK 473F 1/10 -CP
R6322	06S15593Y89	RES,RK 473F 1/10 -CP
R6323	06S15593Y89	RES,RK 473F 1/10 -CP
R6324	06S15593Y89	RES,RK 473F 1/10 -CP
R6325	06S15593Y81	RES,RK 223F 1/10 -CP
R6326	06S15593Y79	RES,RK 183F 1/10 -CP
R6327	06S15593Y81	RES,RK 223F 1/10 -CP
R6328	06S15593Y79	RES,RK 183F 1/10 -CP
R6329	06S15593Y81	RES,RK 223F 1/10 -CP
R6330	06S15593Y79	RES,RK 183F 1/10 -CP
R6331	06S15593Y81	RES,RK 223F 1/10 -CP
R6332	06S15593Y79	RES,RK 183F 1/10 -CP
R6333	06S15593Y85	RES,RK 333F 1/10 -CP
R6334	06S15593Y91	RES,RK 563F 1/10 -CP
R6335	06S55361Y41	RES,RK 101J 1/4 -CP
R6336	06S55361Y41	RES,RK 101J 1/4 -CP
R6337	06S55361Y41	RES,RK 101J 1/4 -CP
R6338	06S55361Y41	RES,RK 101J 1/4 -CP
R6339	06S15593Y41	RES,RK 471F 1/10 -CP
R6340	06S15593Y47	RES,RK 821F 1/10 -CP
R6341	06S15593Y41	RES,RK 471F 1/10 -CP
R6342	06S15593Y47	RES,RK 821F 1/10 -CP
R6343	06S15593Y41	RES,RK 471F 1/10 -CP
R6344	06S15593Y47	RES,RK 821F 1/10 -CP
R6345	06S15593Y41	RES,RK 471F 1/10 -CP
R6346	06S15593Y47	RES,RK 821F 1/10 -CP
R6347	06S15593Y53	RES,RK 152F 1/10 -CP
R6348	06S15593Y55	RES,RK 182F 1/10 -CP
R6349	06S15594Y04	RES,RK 184F 1/10 -CP
R6350	06S15594Y04	RES,RK 184F 1/10 -CP
R6351	06S15594Y04	RES,RK 184F 1/10 -CP
R6352	06S15594Y04	RES,RK 184F 1/10 -CP
R6353	06S15593Y42	RES,RK 511F 1/10 -CP
R6354	06S15593Y49	RES,RK 102F 1/10 -CP
R6355	06S15593Y42	RES,RK 511F 1/10 -CP
R6356	06S15593Y49	RES,RK 102F 1/10 -CP
R6357	06S15593Y42	RES,RK 511F 1/10 -CP
R6358	06S15593Y49	RES,RK 102F 1/10 -CP
R6359	06S15593Y42	RES,RK 511F 1/10 -CP
R6360	06S15593Y49	RES,RK 102F 1/10 -CP
R6361	06S15593Y51	RES,RK 122F 1/10 -CP
R6362	06S15593Y56	RES,RK 202F 1/10 -CP

IVA-D310R/IVA-D310RB

R6363	06S15593Y25	RES,RK 101F 1/10 -CP
R6364	06S15593Y25	RES,RK 101F 1/10 -CP
R6365	06S15593Y25	RES,RK 101F 1/10 -CP
R6366	06S15593Y25	RES,RK 101F 1/10 -CP
R6367	06S15593Y25	RES,RK 101F 1/10 -CP
R6368	06S15593Y53	RES,RK 152F 1/10 -CP
R6369	06S15593Y53	RES,RK 152F 1/10 -CP
R6370	06S15593Y53	RES,RK 152F 1/10 -CP
R6371	06S15593Y53	RES,RK 152F 1/10 -CP
R6372	06S15593Y49	RES,RK 102F 1/10 -CP
R6374	06S55366Y06	RES,RK 473J 1/10 -CP
R6375	06S55366Y06	RES,RK 473J 1/10 -CP
R6376	06S55365Y89	RES,RK 103J 1/10 -CP
R6377	06S55365Y73	RES,RK 222J 1/10 -CP
R6379	06S55362Y39	RES,RK JUMPER 1/4-CP
R6380	06S55365Y38	RES,RK 75RJ 1/10 -CP
R6386	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6387	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6388	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6389	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6390	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6391	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6392	06S55365Y59	RES,RK 561J 1/10 -CP
R6394	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6395	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6396	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6397	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6398	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6399	06S55361Y01	RES,RK 2R2J 1/4 -CP
R6404	06S55365Y65	RES,RK 102J 1/10 -CP
R6405	06S55361Y65	RES,RK 102J 1/4 -CP
R6406	06S55362Y39	RES,RK JUMPER 1/4-CP
R6409	06S55361Y41	RES,RK 101J 1/4 -CP
R6410	06S55361Y65	RES,RK 102J 1/4 -CP
R6413	06S55366Y39	RES,RK JUMPER1/10-CP
R6417	06S55362Y39	RES,RK JUMPER 1/4-CP
R6418	06S55365Y41	RES,RK 101J 1/10 -CP
R6419	06S55365Y41	RES,RK 101J 1/10 -CP
R6420	06S55365Y41	RES,RK 101J 1/10 -CP
R6421	06S55365Y41	RES,RK 101J 1/10 -CP
R6424	06S55366Y06	RES,RK 473J 1/10 -CP
R6425	06S55366Y06	RES,RK 473J 1/10 -CP
R7001	06S55366Y39	RES,RK JUMPER1/10-CP
R7003	06S55365Y37	RES,RK 68RJ 1/10 -CP
R7006	06S15593Y51	RES,RK 122F 1/10 -CP
R7007	06S15593Y51	RES,RK 122F 1/10 -CP
R7010	06S15593Y91	RES,RK 563F 1/10 -CP
R7011	06S15593Y91	RES,RK 563F 1/10 -CP
R7012	06S15593Y75	RES,RK 123F 1/10 -CP
R7013	06S15593Y75	RES,RK 123F 1/10 -CP
R7014	06S15593Y77	RES,RK 153F 1/10 -CP
R7015	06S15593Y77	RES,RK 153F 1/10 -CP
R7016	06S15593Y90	RES,RK 513F 1/10 -CP
R7017	06S15593Y90	RES,RK 513F 1/10 -CP
R7018	06S55365Y37	RES,RK 68RJ 1/10 -CP
R7019	06S15593Y65	RES,RK 472F 1/10 -CP
R7020	06S15593Y65	RES,RK 472F 1/10 -CP

IVA-D310R/IVA-D310RB

R7021	06S15593Y03	RES,RK 12RF 1/10 -CP
R7022	06S15593Y03	RES,RK 12RF 1/10 -CP
R7023	06S15593Y69	RES,RK 682F 1/10 -CP
R7024	06S15593Y69	RES,RK 682F 1/10 -CP
R7025	06S15593Y69	RES,RK 682F 1/10 -CP
R7026	06S15593Y69	RES,RK 682F 1/10 -CP
R7027	06S55365Y29	RES,RK 33RJ 1/10 -CP
R7028	06S55365Y29	RES,RK 33RJ 1/10 -CP
R7029	06S55365Y29	RES,RK 33RJ 1/10 -CP
R7030	06S55365Y29	RES,RK 33RJ 1/10 -CP
R7031	06S55365Y29	RES,RK 33RJ 1/10 -CP
R7032	06S55361Y25	RES,RK 22RJ 1/4 -CP
R7033	06S55361Y25	RES,RK 22RJ 1/4 -CP
R7034	06S55361Y25	RES,RK 22RJ 1/4 -CP
R7035	06S55361Y41	RES,RK 101J 1/4 -CP
R7036	06S55365Y97	RES,RK 223J 1/10 -CP
R7037	06S55365Y97	RES,RK 223J 1/10 -CP
R7039	06S55366Y39	RES,RK JUMPER1/10-CP
R7040	06S55366Y39	RES,RK JUMPER1/10-CP
R7042	06S55361Y25	RES,RK 22RJ 1/4 -CP
RA4301	06S45591W07	RES,ARY MNR101J 4-CP
RA4302	06S45591W07	RES,ARY MNR101J 4-CP
RA4303	06S45591W07	RES,ARY MNR101J 4-CP
RA4304	06S45591W07	RES,ARY MNR101J 4-CP
RA4305	06S45591W07	RES,ARY MNR101J 4-CP
RA4306	06S45591W07	RES,ARY MNR101J 4-CP
RA4307	06S45591W07	RES,ARY MNR101J 4-CP
RA4308	06S45591W07	RES,ARY MNR101J 4-CP
RA5302	06S45591W07	RES,ARY MNR101J 4-CP
RA5303	06S45591W07	RES,ARY MNR101J 4-CP
RA5304	06S45591W07	RES,ARY MNR101J 4-CP
RA5305	06S45591W07	RES,ARY MNR101J 4-CP
RA5306	06S45591W02	RES,ARY MNR473J 4-CP
RA5307	06S45591W07	RES,ARY MNR101J 4-CP
RA5308	06S45591W07	RES,ARY MNR101J 4-CP
RA5309	06S45591W12	RES,ARY MNR47RJ 4-CP
RA5310	06S45591W07	RES,ARY MNR101J 4-CP
RA5312	06S45591W07	RES,ARY MNR101J 4-CP
RA5314	06S45591W07	RES,ARY MNR101J 4-CP
RA5315	06S45591W07	RES,ARY MNR101J 4-CP
RA5318	06S45591W07	RES,ARY MNR101J 4-CP
RA5319	06S45591W07	RES,ARY MNR101J 4-CP
RA5320	06S45591W07	RES,ARY MNR101J 4-CP
RA5321	06S45591W07	RES,ARY MNR101J 4-CP
RA5322	06S45591W07	RES,ARY MNR101J 4-CP
RA5323	06S45591W07	RES,ARY MNR101J 4-CP
SA6301	48T25171Y02	VST,SA-C2012-101 -CP
SA6302	48T25171Y02	VST,SA-C2012-101 -CP
SA6303	48T25171Y02	VST,SA-C2012-101 -CP
SD3301	48T75104Y01	DIO,SHT RB521G-30-CP
SD6301	48T75104Y01	DIO,SHT RB521G-30-CP
TH5301	48T25250Y06	TMT,ERTJ1VR223G -CP
VT4302	24T75546Y01	COIL,VTR 5CDM -E2
XL4301	91T35643Y01	XTL,DSX151GA 3.57-E9
XL4302	91T35643Y02	XTL,DSX151GA 4.43-E9
XL5301	91T35227Y09	XTL,CS10 19.6608M-E2
XL5302	91T95554W01	XTL,CM200S 32.76K-E5

IVA-D310R/IVA-D310RB

Z4301	91T45556Y06	EMI,NFM21HC102R1H-CP
Z4302	91T45556Y06	EMI,NFM21HC102R1H-CP
Z4303	91T45556Y06	EMI,NFM21HC102R1H-CP
Z4304	91T45556Y06	EMI,NFM21HC102R1H-CP
Z4900	91T45160Y01	EMI,CNH31R473S -CP
Z5301	91T15509Y08	EMI,BK1608HM102 -CP
Z5302	91T15509Y08	EMI,BK1608HM102 -CP
Z5303	91T15509Y08	EMI,BK1608HM102 -CP
Z5304	91T15509Y08	EMI,BK1608HM102 -CP
Z5305	91T15509Y08	EMI,BK1608HM102 -CP
Z5306	91T15509Y08	EMI,BK1608HM102 -CP
Z6302	91T45556Y06	EMI,NFM21HC102R1H-CP
Z6303	91T45556Y06	EMI,NFM21HC102R1H-CP
Z6304	91T45556Y06	EMI,NFM21HC102R1H-CP
Z6305	91T15509Y08	EMI,BK1608HM102 -CP
Z6306	91T15509Y08	EMI,BK1608HM102 -CP
Z6307	91T15509Y08	EMI,BK1608HM102 -CP
Z7001	91T75196Y03	EMI,BK1005LL100 -CP
ZD5301	48T15541Y51	DIO,ZEN MAZS0560L-CP
ZD6301	48T35392Y06	DIO,ZEN RLZ7.5A -CP
ZD6302	48T35392Y06	DIO,ZEN RLZ7.5A -CP
ZD6303	48T35392Y06	DIO,ZEN RLZ7.5A -CP
ZD6304	48T35392Y06	DIO,ZEN RLZ7.5A -CP
ZD6305	48T15541Y57	DIO,ZEN MAZS0680L-CP
ZD6306	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6307	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6308	48T15541Y53	DIO,ZEN MAZS0560H-CP

=====LCD P.W.Board

C8002	08S65670Y01	CAP,CER 106KX5R1C-CP
C8004	08S65670Y01	CAP,CER 106KX5R1C-CP
C8005	08S35349Y16	CAP,CER 105K-B1A -CP
C8022	08S65670Y01	CAP,CER 106KX5R1C-CP
C8023	08S45676W85	CAP,CER 104K-B1C -CP
C8024	08S45677W60	CAP,CER 102J-CH1H-CP
C8101	08S35349Y16	CAP,CER 105K-B1A -CP
C8102	08S45676W85	CAP,CER 104K-B1C -CP
C8103	08S65670Y01	CAP,CER 106KX5R1C-CP
C8104	08S65676Y03	CAP,CER 225KX7R1C-CP
C8105	08S65670Y01	CAP,CER 106KX5R1C-CP
C8106	08S45676W85	CAP,CER 104K-B1C -CP
C8107	08S45676W85	CAP,CER 104K-B1C -CP
C8108	08S45677W54	CAP,CER 561J-CH1H-CP
C8109	08S45677W60	CAP,CER 102J-CH1H-CP
C8110	08S45677W30	CAP,CER.56RJ-CH1H-CP
C8111	08S45676W85	CAP,CER 104K-B1C -CP
C8112	08S35349Y12	CAP,CER 105K-B0J -CP
C8113	08S45676W85	CAP,CER 104K-B1C -CP
C8114	08S45676W85	CAP,CER 104K-B1C -CP
C8115	08S45676W85	CAP,CER 104K-B1C -CP
C8116	08S45676W85	CAP,CER 104K-B1C -CP
C8117	08S45677W48	CAP,CER.331J-CH1H-CP
C8118	08S35349Y16	CAP,CER 105K-B1A -CP
C8119	08S45676W85	CAP,CER 104K-B1C -CP
C8120	08S35349Y16	CAP,CER 105K-B1A -CP
C8121	08S45676W75	CAP,CER.153K-B1H -CP
C8122	08S45677W40	CAP,CER.151J-CH1H-CP

IVA-D310R/IVA-D310RB

C8123	08S45677W60	CAP,CER 102J-CH1H-CP
C8124	08S35374W11	CAP,CER 475K-B0J -CP
C8128	08S45676W73	CAP,CER.103K-B1H -CP
C8129	08S45676W85	CAP,CER 104K-B1C -CP
C8130	08S45676W85	CAP,CER 104K-B1C -CP
C8131	08T65231Y01	CAP,CER 226K-BJ1A-CP
C8132	08T65555Y01	CAP,CER 226K-BJ0J-CP
C8133	08S45676W80	CAP,CER 223K-B1E -CP
C8203	08S45677W60	CAP,CER 102J-CH1H-CP
C8204	08S45677W12	CAP,CER.10RD-CH1H-CP
C8206	08S45677W12	CAP,CER.10RD-CH1H-CP
C8207	08S35350Y04	CAP,CER 105K-B1C -CP
C8208	08S45677W44	CAP,CER.221J-CH1H-CP
C8209	08S45677W44	CAP,CER.221J-CH1H-CP
C8210	08S45677W44	CAP,CER.221J-CH1H-CP
C8211	08S45677W44	CAP,CER.221J-CH1H-CP
C8212	08S45539Y03	CAP,CER 472KX7R2J-CP
C8213	08S45676W73	CAP,CER.103K-B1H -CP
C8214	08S45676W73	CAP,CER.103K-B1H -CP
C8215	08T65231Y01	CAP,CER 226K-BJ1A-CP
C8216	08S35349Y16	CAP,CER 105K-B1A -CP
C8217	08S35374W08	CAP,CER 474K-B1C -CP
C8218	08S35349Y16	CAP,CER 105K-B1A -CP
C8219	08S45676W73	CAP,CER.103K-B1H -CP
C8220	08S45676W85	CAP,CER 104K-B1C -CP
C8221	08S45676W63	CAP,CER 152K-B1H -CP
C8222	08S45676W85	CAP,CER 104K-B1C -CP
C8223	08S45677W44	CAP,CER.221J-CH1H-CP
C8224	08S45676W89	CAP,CER 473K-B1E -CP
C8225	08S45676W89	CAP,CER 473K-B1E -CP
C8226	08S45676W73	CAP,CER.103K-B1H -CP
C8227	08S45676W85	CAP,CER 104K-B1C -CP
C8228	08S45676W73	CAP,CER.103K-B1H -CP
C8229	08S45677W60	CAP,CER 102J-CH1H-CP
C8230	08S45677W60	CAP,CER 102J-CH1H-CP
C8231	08T65231Y01	CAP,CER 226K-BJ1A-CP
C8232	08S65676Y03	CAP,CER 225KX7R1C-CP
C8233	08S45676W80	CAP,CER 223K-B1E -CP
C8234	08T95444W05	CAP,CER 22RJ-SL3F-E2
C8235	08S45677W60	CAP,CER 102J-CH1H-CP
C8236	08S45677W60	CAP,CER 102J-CH1H-CP
C8237	08S45677W60	CAP,CER 102J-CH1H-CP
C8238	08S45677W60	CAP,CER 102J-CH1H-CP
C8239	08S45677W60	CAP,CER 102J-CH1H-CP
C8240	08S45677W60	CAP,CER 102J-CH1H-CP
C8241	08S45676W85	CAP,CER 104K-B1C -CP
CB8001	09T45507Y50	FFC,IMSA9631S-50Y-EQ
CB8002	09T45391Y26	FFC,IMSA9632S-26Y-ED
CB8003	09T15107Y10	FFC,52745-1090 -E9
CB8202	09T75429Y12	FFC,CFP1512-0201G-E9
CH8201	09T45263Y02	WTB,SM02B-BHSS-1 -EV
CL8101	91T85054W05	OSC,CER CSBFB503K-E6
D8101	48T25665Y01	DIO,1SS355-TE17 -CP
D8201	48T75457Y01	DIO,U1JU44-TE12L -E1
D8202	48T25665Y01	DIO,1SS355-TE17 -CP
D8203	48T15707Y01	DIO,MA133-TX -CP
D8204	48T15707Y01	DIO,MA133-TX -CP

IVA-D310R/IVA-D310RB

	D8207	48T25665Y01	DIO,1SS355-TE17 -CP
	D8208	48T25665Y01	DIO,1SS355-TE17 -CP
	E8201	23S75244Y03	CAP,ELY 101-0J -E3
	IC8002	51T25404Y02	TC7W53FU-TE12L -SE1
	IC8003	51T75399Y01	MN5814UB -QT
	IC8101	51T65414Y01	NJM2871F33-TE1 -CP
	IC8102	51T25491Y01	NJM2107F-TE1 -CP
	IC8103	51T15193Y01	TC74VHCT00AFT-EL-SE5
	IC8104	51T15731W07	TC7S14F-TE85L -CP
	IC8105	51T75197W12	AN77L12M-E1 -NE2
	IC8106	51T55336Y01	TC7SH04FU-TE85L -CP
	IC8107	51T45407Y01	TC7SH86FU-TE85L -CP
	IC8108	51T55107Y01	NJW1303-TE2 -SE2
	IC8202	51T75545Y02	NZX0100-2102F -QT
	IC8204	51T93332F02	NJM2903V-TE2 -SE2
	IC8207	51T75331Y01	OZ961IS-L -SE5
	IC8209	51T55336Y01	TC7SH04FU-TE85L -CP
	L8002	24T75195W41	IND,LFC32 18RJ -CP
	L8003	24T75195W41	IND,LFC32 18RJ -CP
	L8004	24T75195W41	IND,LFC32 18RJ -CP
	L8101	24T25164Y15	IND,FSLM2520 1R5J-CP
	L8102	24T95458W01	FBI,BLM31PG500SH1-CP
	L8201	24T25368Y13	IND,SLF10145 102M-EA
#1	LD8201	48T65206Y01	LED,GRN SML311EB1TCP
\$1	LD8201	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD8202	48T65206Y01	LED,GRN SML311EB1TCP
\$1	LD8202	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD8203	48T15521Y02	LED,RED SML-310LT-CP
#1	LD8204	48T15521Y02	LED,RED SML-310LT-CP
	Q8001	48T52437F01	TR ,2SB709A-QR/TX-CP
	Q8002	48T62967F03	TR,DTC124EKA-T146-CP
	Q8003	48T75205Y01	TR,FMC2A-T148 -CP
	Q8201	48T75433Y01	FET,2SK3113-ZE1AZ-E5
	Q8202	48T94582F01	TR ,CP 2SC4081-Q
	Q8203	48T75371Y01	TR,2SC4942-T1-AZ -E2
	Q8204	48T62967F02	TR,DTC114EKA-T146-CP
	Q8205	48T75371Y01	TR,2SC4942-T1-AZ -E2
	Q8206	48T75370Y01	TR,2SA1871-T1-AZ -E2
	Q8207	48T75371Y01	TR,2SC4942-T1-AZ -E2
	Q8208	48T75370Y01	TR,2SA1871-T1-AZ -E2
	Q8209	48T75371Y01	TR,2SC4942-T1-AZ -E2
	Q8210	48T62966F05	TR,DTA143XKA-T146-CP
	Q8211	48T62966F03	TR,DTA124EKA-T146-CP
	Q8212	48T62966F23	TR,DTA123YKA-T146-CP
	Q8213	48T62967F05	TR,DTC143XKA-T146-CP
	Q8214	48T62967F05	TR,DTC143XKA-T146-CP
	Q8215	48T75433Y01	FET,2SK3113-ZE1AZ-E5
	Q8216	48T63419F04	TR,CP.2SA1036K-HR-96
	Q8217	48T62967F02	TR,DTC114EKA-T146-CP
	Q8218	48T75460Y01	FET,SP8M3-TB -E2
	Q8219	48T75460Y01	FET,SP8M3-TB -E2
	Q8220	48T75180Y01	TR,IMH1A-T110 -CP
	Q8293	48T62967F05	TR,DTC143XKA-T146-CP
#1	Q8294	48T62967F05	TR,DTC143XKA-T146-CP
	R8003	06S15594Y23	RES,RK JUMPER1/10-CP
	R8004	06S15594Y23	RES,RK JUMPER1/10-CP
	R8005	06S15594Y23	RES,RK JUMPER1/10-CP

IVA-D310R/IVA-D310RB

R8006	06S15594Y23	RES,RK JUMPER1/10-CP
R8010	06S15593Y25	RES,RK 101F 1/10 -CP
R8011	06S15593Y25	RES,RK 101F 1/10 -CP
R8012	06S55366Y39	RES,RK JUMPER1/10-CP
R8066	06S15593Y25	RES,RK 101F 1/10 -CP
R8067	06S15593Y73	RES,RK 103F 1/10 -CP
R8068	06S15593Y25	RES,RK 101F 1/10 -CP
R8069	06S15593Y97	RES,RK 104F 1/10 -CP
R8080	06S55365Y73	RES,RK 222J 1/10 -CP
R8081	06S55365Y73	RES,RK 222J 1/10 -CP
R8082	06S55365Y81	RES,RK 472J 1/10 -CP
R8102	06S15593Y73	RES,RK 103F 1/10 -CP
R8105	06S15593Y73	RES,RK 103F 1/10 -CP
R8106	06S15593Y67	RES,RK 562F 1/10 -CP
R8111	06S15594Y22	RES,RK 105F 1/10 -CP
R8112	06S15593Y93	RES,RK 683F 1/10 -CP
R8113	06S15593Y73	RES,RK 103F 1/10 -CP
R8114	06S15593Y83	RES,RK 273F 1/10 -CP
R8117	06S15593Y57	RES,RK 222F 1/10 -CP
R8118	06S15593Y63	RES,RK 392F 1/10 -CP
R8119	06S15593Y57	RES,RK 222F 1/10 -CP
R8120	06S15593Y63	RES,RK 392F 1/10 -CP
R8121	06S15593Y57	RES,RK 222F 1/10 -CP
R8122	06S15593Y63	RES,RK 392F 1/10 -CP
R8123	06S15593Y73	RES,RK 103F 1/10 -CP
R8124	06S15593Y25	RES,RK 101F 1/10 -CP
R8125	06S15594Y14	RES,RK 474F 1/10 -CP
R8126	06S15593Y81	RES,RK 223F 1/10 -CP
R8127	06S15593Y89	RES,RK 473F 1/10 -CP
R8128	06S15593Y93	RES,RK 683F 1/10 -CP
R8129	06S15593Y25	RES,RK 101F 1/10 -CP
R8130	06S15593Y65	RES,RK 472F 1/10 -CP
R8131	06S15593Y57	RES,RK 222F 1/10 -CP
R8132	06S15593Y73	RES,RK 103F 1/10 -CP
R8133	06S15593Y25	RES,RK 101F 1/10 -CP
R8134	06S15593Y25	RES,RK 101F 1/10 -CP
R8135	06S15593Y73	RES,RK 103F 1/10 -CP
R8136	06S15593Y73	RES,RK 103F 1/10 -CP
R8137	06S15593Y25	RES,RK 101F 1/10 -CP
R8140	06S15593Y73	RES,RK 103F 1/10 -CP
R8148	06S15593Y25	RES,RK 101F 1/10 -CP
R8150	06S15594Y23	RES,RK JUMPER1/10-CP
R8151	06S15593Y25	RES,RK 101F 1/10 -CP
R8152	06S15593Y73	RES,RK 103F 1/10 -CP
R8163	06S15593Y73	RES,RK 103F 1/10 -CP
R8164	06S15593Y25	RES,RK 101F 1/10 -CP
R8165	06S15593Y73	RES,RK 103F 1/10 -CP
R8170	06S15593Y73	RES,RK 103F 1/10 -CP
R8172	06S15593Y61	RES,RK 332F 1/10 -CP
R8179	06S15593Y65	RES,RK 472F 1/10 -CP
R8180	06S15593Y41	RES,RK 471F 1/10 -CP
R8181	06S55365Y54	RES,RK 361J 1/10 -CP
R8184	06S55366Y37	RES,RK 914J 1/10 -CP
R8185	06S55365Y65	RES,RK 102J 1/10 -CP
R8186	06S15593Y60	RES,RK 302F 1/10 -CP
R8187	06S15593Y55	RES,RK 182F 1/10 -CP
R8188	06S15593Y39	RES,RK 391F 1/10 -CP

IVA-D310R/IVA-D310RB

R8189	06S15593Y57	RES,RK 222F 1/10 -CP
R8191	06S15593Y25	RES,RK 101F 1/10 -CP
R8201	06S15593Y89	RES,RK 473F 1/10 -CP
R8202	06S15593Y89	RES,RK 473F 1/10 -CP
R8203	06S55361Y49	RES,RK 221J 1/4 -CP
R8206	06S15593Y49	RES,RK 102F 1/10 -CP
R8207	06S15593Y49	RES,RK 102F 1/10 -CP
R8209	06S15593Y89	RES,RK 473F 1/10 -CP
R8211	06S15593Y49	RES,RK 102F 1/10 -CP
R8212	06S55362Y04	RES,RK 393J 1/4 -CP
R8215	06S15593Y49	RES,RK 102F 1/10 -CP
R8216	06S15593Y81	RES,RK 223F 1/10 -CP
R8218	06S15593Y49	RES,RK 102F 1/10 -CP
R8219	06S15593Y89	RES,RK 473F 1/10 -CP
R8222	06S15593Y49	RES,RK 102F 1/10 -CP
R8223	06S15593Y57	RES,RK 222F 1/10 -CP
R8224	06S15593Y57	RES,RK 222F 1/10 -CP
R8225	06S15593Y57	RES,RK 222F 1/10 -CP
R8226	06S15593Y57	RES,RK 222F 1/10 -CP
R8227	06S15593Y81	RES,RK 223F 1/10 -CP
R8228	06S15593Y89	RES,RK 473F 1/10 -CP
R8229	06S15593Y89	RES,RK 473F 1/10 -CP
R8230	06S15593Y89	RES,RK 473F 1/10 -CP
R8231	06S15593Y97	RES,RK 104F 1/10 -CP
R8233	06S15593Y77	RES,RK 153F 1/10 -CP
R8235	06S55362Y14	RES,RK 104J 1/4 -CP
R8236	06S55362Y26	RES,RK 334J 1/4 -CP
R8238	06S15593Y57	RES,RK 222F 1/10 -CP
R8239	06S15593Y82	RES,RK 243F 1/10 -CP
R8240	06S15593Y09	RES,RK 22RF 1/10 -CP
R8241	06S55362Y14	RES,RK 104J 1/4 -CP
R8242	06S55362Y26	RES,RK 334J 1/4 -CP
R8243	06S15593Y73	RES,RK 103F 1/10 -CP
R8244	06S55361Y51	RES,RK 271J 1/4 -CP
R8245	06S55361Y51	RES,RK 271J 1/4 -CP
R8249	06S15593Y99	RES,RK 124F 1/10 -CP
R8251	06S15593Y90	RES,RK 513F 1/10 -CP
R8252	06S15593Y89	RES,RK 473F 1/10 -CP
R8253	06S15593Y67	RES,RK 562F 1/10 -CP
R8254	06S15593Y25	RES,RK 101F 1/10 -CP
R8255	06S15593Y25	RES,RK 101F 1/10 -CP
R8256	06S15593Y73	RES,RK 103F 1/10 -CP
R8257	06S15593Y73	RES,RK 103F 1/10 -CP
R8258	06S15594Y22	RES,RK 105F 1/10 -CP
R8259	06S15593Y57	RES,RK 222F 1/10 -CP
R8260	06S15593Y57	RES,RK 222F 1/10 -CP
R8261	06S15593Y97	RES,RK 104F 1/10 -CP
R8263	06S15593Y09	RES,RK 22RF 1/10 -CP
R8265	06S15593Y01	RES,RK 10RF 1/10 -CP
R8266	06S15593Y97	RES,RK 104F 1/10 -CP
R8267	06S15593Y70	RES,RK 752F 1/10 -CP
R8268	06S15593Y39	RES,RK 391F 1/10 -CP
R8275	06S15593Y89	RES,RK 473F 1/10 -CP
R8276	06S15593Y89	RES,RK 473F 1/10 -CP
R8277	06S15593Y89	RES,RK 473F 1/10 -CP
R8278	06S15593Y81	RES,RK 223F 1/10 -CP
R8280	06S15593Y80	RES,RK 203F 1/10 -CP

IVA-D310R/IVA-D310RB

	R8281	06S55362Y04	RES,RK 393J 1/4 -CP
	R8282	06S15593Y69	RES,RK 682F 1/10 -CP
	R8284	06S15593Y81	RES,RK 223F 1/10 -CP
	R8285	06S15593Y89	RES,RK 473F 1/10 -CP
	R8287	06S15593Y49	RES,RK 102F 1/10 -CP
	R8288	06S15593Y73	RES,RK 103F 1/10 -CP
	R8289	06S15593Y77	RES,RK 153F 1/10 -CP
	R8290	06S55362Y04	RES,RK 393J 1/4 -CP
	R8294	06S55361Y51	RES,RK 271J 1/4 -CP
	R8295	06S55361Y51	RES,RK 271J 1/4 -CP
	R8299	06S55361Y51	RES,RK 271J 1/4 -CP
	R8300	06S55361Y51	RES,RK 271J 1/4 -CP
#1	R8301	06S55361Y46	RES,RK 161J 1/4 -CP
\$1	R8301	06S55361Y50	RES,RK 241J 1/4 -CP
#1	R8302	06S55361Y56	RES,RK 431J 1/4 -CP
	SD8001	48T75104Y01	DIO,SHT RB521G-30-CP
	T8201	25-01461Z01	TRANS,ETJV09ZH23AB-T
	TH8201	48T25250Y06	TMT,ERTJ1VR223G -CP
	VD8101	48T25248Y01	DIO,VAR MA335-TX -CP
	VR8101	18T55283W15	VAR,RH03APA 223 -CP
	XL8201	91T45433W34	XTL,NX1255GA 6.00-E9
	Z8101	91T15509Y08	EMI,BK1608HM102 -CP
	Z8102	91T15509Y08	EMI,BK1608HM102 -CP
	Z8103	91T15509Y08	EMI,BK1608HM102 -CP
	Z8104	91T15509Y08	EMI,BK1608HM102 -CP
	Z8105	91T15509Y08	EMI,BK1608HM102 -CP
	Z8106	91T15509Y08	EMI,BK1608HM102 -CP
	Z8107	91T15509Y08	EMI,BK1608HM102 -CP
	Z8108	91T15509Y08	EMI,BK1608HM102 -CP
	Z8109	91T15509Y08	EMI,BK1608HM102 -CP
	Z8110	91T15509Y08	EMI,BK1608HM102 -CP
	Z8111	91T15509Y08	EMI,BK1608HM102 -CP
	Z8112	91T15509Y08	EMI,BK1608HM102 -CP
	Z8113	91T15509Y08	EMI,BK1608HM102 -CP
	Z8114	91T15509Y08	EMI,BK1608HM102 -CP
	Z8115	91T15509Y08	EMI,BK1608HM102 -CP
	Z8116	91T15509Y08	EMI,BK1608HM102 -CP
	Z8117	91T15509Y08	EMI,BK1608HM102 -CP
	Z8118	91T15509Y08	EMI,BK1608HM102 -CP
	Z8119	91T15509Y08	EMI,BK1608HM102 -CP
	Z8120	91T15509Y08	EMI,BK1608HM102 -CP
	Z8121	91T15509Y08	EMI,BK1608HM102 -CP
	Z8122	91T15509Y08	EMI,BK1608HM102 -CP
	Z8123	91T15509Y08	EMI,BK1608HM102 -CP
	Z8124	91T15509Y08	EMI,BK1608HM102 -CP
	Z8125	91T15509Y08	EMI,BK1608HM102 -CP
	Z8126	91T15509Y08	EMI,BK1608HM102 -CP
	Z8127	91T15509Y08	EMI,BK1608HM102 -CP
	Z8129	91T15509Y08	EMI,BK1608HM102 -CP
	Z8131	91T15509Y08	EMI,BK1608HM102 -CP
	Z8132	91T15509Y08	EMI,BK1608HM102 -CP
	Z8133	91T15509Y08	EMI,BK1608HM102 -CP
	Z8134	91T15509Y08	EMI,BK1608HM102 -CP
	Z8135	91T15509Y08	EMI,BK1608HM102 -CP
	Z8136	91T15509Y08	EMI,BK1608HM102 -CP
	Z8137	91T15509Y08	EMI,BK1608HM102 -CP
	Z8138	91T15509Y08	EMI,BK1608HM102 -CP

IVA-D310R/IVA-D310RB

	Z8139	91T15509Y08	EMI,BK1608HM102 -CP
	Z8140	91T15509Y08	EMI,BK1608HM102 -CP
	Z8141	91T15509Y08	EMI,BK1608HM102 -CP
	Z8142	91T15509Y08	EMI,BK1608HM102 -CP
	ZD8203	48T62934F22	DIO,ZEN.RD5.6MB2 -CP
	ZD8204	48T62934F22	DIO,ZEN.RD5.6MB2 -CP
	ZD8205	48T15541Y53	DIO,ZEN MAZS0560H-CP
	ZD8206	48T15541Y53	DIO,ZEN MAZS0560H-CP
=====DF P.W.Board			
	C4500	08S45677W56	CAP,CER 681J-CH1H-CP
	C4501	08S45676W89	CAP,CER 473K-B1E -CP
	C4502	08S45676W89	CAP,CER 473K-B1E -CP
	C4503	08S45676W89	CAP,CER 473K-B1E -CP
	C4504	08S35349Y17	CAP,CER 225K-B0J -CP
	C4505	08S35374W12	CAP,CER 106K-B0J -CP
	C4506	08S65128F78	CAP,CER.223K-B1H -CP
	CB4500	09T65033Y16	BTB,CAM-C73-016 -EF
	D4500	48T85357W01	DIO,1PS226 -CP
	D4501	48T85357W01	DIO,1PS226 -CP
	D4502	48T85357W01	DIO,1PS226 -CP
	D4503	48T85357W01	DIO,1PS226 -CP
	IC4500	51-01920Z01	LC75834W-E -QT
	IC4501	51T55628Y01	RS-671 -NE2
	LD4500	48-00415Z01	LED,WHT NSCW505CT-E2
	LD4501	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4502	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4503	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4504	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4505	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4506	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4507	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4508	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4509	48T15521Y02	LED,RED SML-310LT-CP
#1	LD4510	48T15521Y07	LED,GRN 310PT-KL -CP
\$1	LD4510	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4511	48T15521Y07	LED,GRN 310PT-KL -CP
\$1	LD4511	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4512	48T15521Y07	LED,GRN 310PT-KL -CP
\$1	LD4512	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4513	48T15521Y07	LED,GRN 310PT-KL -CP
\$1	LD4513	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4514	48T15521Y07	LED,GRN 310PT-KL -CP
\$1	LD4514	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4515	48T65206Y01	LED,GRN SML311EB1TCP
\$1	LD4515	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4516	48T65206Y01	LED,GRN SML311EB1TCP
\$1	LD4516	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4517	48T65206Y01	LED,GRN SML311EB1TCP
\$1	LD4517	48-01404Z01	LED,BLU SML512BC4TCP
	Q4500	48T62967F05	TR,DTC143XKA-T146-CP
	Q4501	48T63788F01	TR ,CP.2SD1328 -TX
#1	Q4502	48T63788F01	TR ,CP.2SD1328 -TX
	Q4503	48T63788F01	TR ,CP.2SD1328 -TX
	R4500	06S15593Y88	RES,RK 433F 1/10 -CP
	R4504	06S35084Y42	RES,RK 273F 1/8 -CP
	R4505	06S55361Y52	RES,RK 301J 1/4 -CP

IVA-D310R/IVA-D310RB

	R4506	06S35084Y36	RES,RK 822F 1/8	-CP
	R4507	06S55361Y59	RES,RK 561J 1/4	-CP
	R4508	06S55363Y33	RES,RK 47RJ 1/8	-CP
	R4509	06S35084Y32	RES,RK 392F 1/8	-CP
#1	R4510	06S55363Y62	RES,RK 751J 1/8	-CP
	R4511	06S35084Y30	RES,RK 272F 1/8	-CP
#1	R4512	06S55363Y62	RES,RK 751J 1/8	-CP
#1	R4513	06S55363Y73	RES,RK 222J 1/8	-CP
#1	R4514	06S55363Y73	RES,RK 222J 1/8	-CP
	R4515	06S55361Y65	RES,RK 102J 1/4	-CP
#1	R4516	06S55363Y52	RES,RK 301J 1/8	-CP
\$1	R4516	06S55363Y62	RES,RK 751J 1/8	-CP
#1	R4517	06S55363Y52	RES,RK 301J 1/8	-CP
\$1	R4517	06S55363Y67	RES,RK 122J 1/8	-CP
	R4518	06S55363Y73	RES,RK 222J 1/8	-CP
	R4519	06S55363Y67	RES,RK 122J 1/8	-CP
#1	R4520	06S55361Y73	RES,RK 222J 1/4	-CP
\$1	R4520	06S55361Y72	RES,RK 202J 1/4	-CP
	R4521	06S55363Y73	RES,RK 222J 1/8	-CP
	R4522	06S55363Y73	RES,RK 222J 1/8	-CP
	R4523	06S55363Y73	RES,RK 222J 1/8	-CP
	R4524	06S55363Y73	RES,RK 222J 1/8	-CP
	R4525	06S55363Y65	RES,RK 102J 1/8	-CP
	R4526	06S55363Y65	RES,RK 102J 1/8	-CP
	R4530	06S55363Y91	RES,RK 123J 1/8	-CP
	R4533	06S55366Y06	RES,RK 473J 1/10	-CP
#1	R4534	06S55361Y56	RES,RK 431J 1/4	-CP
\$1	R4534	06S55361Y72	RES,RK 202J 1/4	-CP
	SW4501	40T65353Y01	SW,TACT SKRSPACE010E2	
	SW4502	40T65353Y01	SW,TACT SKRSPACE010E2	
	SW4503	40T65353Y01	SW,TACT SKRSPACE010E2	
	SW4504	40T65353Y01	SW,TACT SKRSPACE010E2	
	ZD4500	48T15541Y53	DIO,ZEN MAZS0560H-CP	
	ZD4501	48T15541Y53	DIO,ZEN MAZS0560H-CP	

=====POWER P.W.Board

C3701	08S65128F88	CAP,CER 104K-B1H -CP
C3702	08S65128F88	CAP,CER 104K-B1H -CP
C3703	08S65128F88	CAP,CER 104K-B1H -CP
C3704	08S65128F88	CAP,CER 104K-B1H -CP
C3705	08S65128F88	CAP,CER 104K-B1H -CP
C3706	08S65128F69	CAP,CER.103K-B1H -CP
C3707	08S65128F69	CAP,CER.103K-B1H -CP
C3708	08S45676W85	CAP,CER 104K-B1C -CP
C3709	08S35374W10	CAP,CER 225K-B1A -CP
C3710	08S45676W80	CAP,CER 223K-B1E -CP
C3711	08S45676W80	CAP,CER 223K-B1E -CP
C3712	08S65670Y01	CAP,CER 106KX5R1C-CP
C3713	08S65670Y01	CAP,CER 106KX5R1C-CP
C3717	08S65670Y01	CAP,CER 106KX5R1C-CP
C3718	08S65670Y01	CAP,CER 106KX5R1C-CP
C3720	08S45676W80	CAP,CER 223K-B1E -CP
C3721	08S35374W07	CAP,CER 334K-B1C -CP
CH3701	09T55630Y26	BTB,IMSA9825S-26Y-EQ
D3701	48T25564Y01	DIO,MA113-TX -CP
E3701	23S75244Y03	CAP,ELY 101-0J -E3
IC3701	51-02322Z01	NJM2860F3-05-TE1 -CP

IVA-D310R/IVA-D310RB

IC3702	51T25259Y03	BA00ASFP-E2	-NE5
IC3703	51T45659Y02	BA00BC0WFP-E2	-NE5
IC3704	51-01520Z01	PQ012FZ01ZPH	-NE5
R3708	06S55361Y81	RES,RK 472J 1/4	-CP
R3709	06S55361Y81	RES,RK 472J 1/4	-CP
R3713	06S55361Y01	RES,RK 2R2J 1/4	-CP
R3714	06S55361Y01	RES,RK 2R2J 1/4	-CP
R3722	06S55364Y39	RES,RK JUMPER 1/8-CP	
R3725	06S15593Y74	RES,RK 113F 1/10	-CP
R3726	06S15593Y35	RES,RK 271F 1/10	-CP
R3727	06S15593Y61	RES,RK 332F 1/10	-CP
R3728	06S15593Y77	RES,RK 153F 1/10	-CP
R3729	06S55366Y39	RES,RK JUMPER1/10-CP	
R3730	06S15593Y75	RES,RK 123F 1/10	-CP
R3733	06S55361Y81	RES,RK 472J 1/4	-CP
R3736	06S55362Y39	RES,RK JUMPER 1/4-CP	
R3737	06S55361Y67	RES,RK 122J 1/4	-CP
ZD3701	48T25064Y02	DIO,ZEN ZSH5MA27A-ED	
ZD3702	48T15541Y49	DIO,ZEN MAZS0510M-CP	
ZD3703	48T15541Y49	DIO,ZEN MAZS0510M-CP	
ZD3704	48T15541Y49	DIO,ZEN MAZS0510M-CP	

=====ESC P.W.Board

CB4700	09T15536Y20	FFC,FH12-20S-0.5S-E9	
D4700	48T85357W01	DIO,1PS226	-CP
D4701	48T85357W01	DIO,1PS226	-CP
D4702	48T85357W01	DIO,1PS226	-CP
D4703	48T85357W01	DIO,1PS226	-CP
R4700	06S55361Y65	RES,RK 102J 1/4	-CP
R4701	06S55363Y65	RES,RK 102J 1/8	-CP
R4702	06S55363Y65	RES,RK 102J 1/8	-CP
R4703	06S55363Y65	RES,RK 102J 1/8	-CP
R4704	06S55363Y65	RES,RK 102J 1/8	-CP
R4705	06S55363Y65	RES,RK 102J 1/8	-CP
R4706	06S55363Y65	RES,RK 102J 1/8	-CP
R4707	06S55363Y65	RES,RK 102J 1/8	-CP
R4708	06S55363Y65	RES,RK 102J 1/8	-CP
R4709	06S55363Y65	RES,RK 102J 1/8	-CP
R4710	06S55363Y41	RES,RK 101J 1/8	-CP
R4711	06S55363Y65	RES,RK 102J 1/8	-CP
SW4700	40T65353Y01	SW,TACT SKRSPACE010E2	
ZD4700	48T15541Y53	DIO,ZEN MAZS0560H-CP	
ZD4701	48T15541Y70	DIO,ZEN MAZS1000M-CP	
ZD4702	48T15541Y53	DIO,ZEN MAZS0560H-CP	
ZD4703	48T15541Y53	DIO,ZEN MAZS0560H-CP	
ZD4704	48T15541Y53	DIO,ZEN MAZS0560H-CP	

=====TOP P.W.Board

	C4600	08S45676W94	CAP,CER 563K-B1C	-CP
	C4601	08S35349Y12	CAP,CER 105K-B0J	-CP
	CB4600	09T15107Y10	FFC,52745-1090	-E9
	IC4600	51T55185Y02	TPS850	-CP
#1	LD4600	48T15521Y02	LED,RED SML-310LT	-CP
#1	LD4601	48T15521Y02	LED,RED SML-310LT	-CP
#1	LD4602	48T15521Y02	LED,RED SML-310LT	-CP
#1	LD4603	48T15521Y02	LED,RED SML-310LT	-CP
#1	LD4604	48T15521Y07	LED,GRN 310PT-KL	-CP

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\$1	LD4604	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4605	48T15521Y07	LED,GRN 310PT-KL -CP
\$1	LD4605	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4606	48T15521Y07	LED,GRN 310PT-KL -CP
\$1	LD4606	48-01404Z01	LED,BLU SML512BC4TCP
#1	LD4607	48T15521Y07	LED,GRN 310PT-KL -CP
\$1	LD4607	48-01404Z01	LED,BLU SML512BC4TCP
#1	Q4600	48T62967F05	TR,DTC143XKA-T146-CP
	Q4601	48T62967F05	TR,DTC143XKA-T146-CP
	R4600	06S35084Y36	RES,RK 822F 1/8 -CP
#1	R4601	06S55361Y69	RES,RK 152J 1/4 -CP
	R4602	06S35084Y32	RES,RK 392F 1/8 -CP
	R4603	06S55361Y33	RES,RK 47RJ 1/4 -CP
#1	R4604	06S55361Y69	RES,RK 152J 1/4 -CP
	R4605	06S35084Y30	RES,RK 272F 1/8 -CP
#1	R4606	06S55361Y56	RES,RK 431J 1/4 -CP
\$1	R4606	06S55361Y69	RES,RK 152J 1/4 -CP
#1	R4607	06S55361Y56	RES,RK 431J 1/4 -CP
\$1	R4607	06S55361Y69	RES,RK 152J 1/4 -CP
	R4608	06S15594Y10	RES,RK 334F 1/10 -CP
	R4609	06S55361Y65	RES,RK 102J 1/4 -CP
	SW4600	40T65353Y01	SW,TACT SKRSPACE010E2
	SW4601	40T65353Y01	SW,TACT SKRSPACE010E2
	SW4602	40T65353Y01	SW,TACT SKRSPACE010E2
	SW4603	40T65353Y01	SW,TACT SKRSPACE010E2

=====OPT P.W.Board

C8801	08S65670Y01	CAP,CER 106KX5R1C-CP
C8802	08S45676W80	CAP,CER 223K-B1E -CP
CB8801	09T25286Y03	WTB,BM(03)B-SRSS -E3
CH6301	01T65457Y01	ASSY,WIRE OPT
R8801	06S55361Y87	RES,RK 822J 1/4 -CP

=====MECHA P.W.Board

CB8904	09T85454W05	WTB,53398-0590 -E9
CB8905	09T85454W02	WTB,53398-0290 -E6
CB8906	09T85454W02	WTB,53398-0290 -E6
CB8907	09T25286Y03	WTB,BM(03)B-SRSS -E3
CB8909	09T15189Y15	FFC,52559-1592 -E9
CH8907	01T65458Y01	ASSY,WIRE PHOT
CH8904	01T65459Y01	ASSY,WIRE MECHA
R8901	06S45674W49	RES,RK 471J 1/10 -CP
R8902	06S45674W97	RES,RK 473J 1/10 -CP

=====SENSOR P.W.Board

CB8971	09T25286Y03	WTB,BM(03)B-SRSS -E3
PR8971	48T45008Y01	PHT,INT GP1S93 -DS

=====SWITCH P.W.Board

CB8951	09T15548Y05	WTB,SM(5)B-SRSS -E5
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=====DV-MAIN P.W.Board

C501	08T81833F13	CAP,CER 106K-B1C -CP
C502	08T81833F13	CAP,CER 106K-B1C -CP
C503	08T81833F13	CAP,CER 106K-B1C -CP
C504	08S45232Y05	CAP,CER 102K-B1H -CP
C505	08T81833F13	CAP,CER 106K-B1C -CP

IVA-D310R/IVA-D310RB

C506	08T81833F13	CAP,CER 106K-B1C -CP
C507	08T81833F13	CAP,CER 106K-B1C -CP
C508	08S45232Y05	CAP,CER 102K-B1H -CP
C509	08S45232Y05	CAP,CER 102K-B1H -CP
C510	08S45232Y05	CAP,CER 102K-B1H -CP
C511	08S45232Y11	CAP,CER 103K-B1C -CP
C512	08S45232Y05	CAP,CER 102K-B1H -CP
C513	08S45232Y05	CAP,CER 102K-B1H -CP
C514	08S45232Y11	CAP,CER 103K-B1C -CP
C516	08S65667Y05	CAP,CER 105KX5R1A-CP
C601	08S45232Y05	CAP,CER 102K-B1H -CP
C602	08S45232Y05	CAP,CER 102K-B1H -CP
C603	08S45232Y05	CAP,CER 102K-B1H -CP
C604	08S45232Y05	CAP,CER 102K-B1H -CP
C605	08S45232Y05	CAP,CER 102K-B1H -CP
C606	08S45232Y05	CAP,CER 102K-B1H -CP
C607	08S45232Y05	CAP,CER 102K-B1H -CP
C608	08S45232Y05	CAP,CER 102K-B1H -CP
C609	08S45232Y05	CAP,CER 102K-B1H -CP
C610	08S45232Y05	CAP,CER 102K-B1H -CP
C611	08S45232Y05	CAP,CER 102K-B1H -CP
C612	08S45232Y05	CAP,CER 102K-B1H -CP
C613	08S45232Y05	CAP,CER 102K-B1H -CP
C614	08S45676W87	CAP,CER 333K-B1E -CP
C615	08S45232Y17	CAP,CER 104K-B0J -CP
C616	08S45232Y17	CAP,CER 104K-B0J -CP
C617	08S45232Y17	CAP,CER 104K-B0J -CP
C618	08S45676W70	CAP,CER 562K-B1H -CP
C619	08S45676W79	CAP,CER 183K-B1E -CP
C620	08S45232Y17	CAP,CER 104K-B0J -CP
C621	08S45232Y17	CAP,CER 104K-B0J -CP
C622	08S45232Y17	CAP,CER 104K-B0J -CP
C623	08S45232Y17	CAP,CER 104K-B0J -CP
C624	08S45232Y05	CAP,CER 102K-B1H -CP
C625	08S45232Y17	CAP,CER 104K-B0J -CP
C626	08S45232Y17	CAP,CER 104K-B0J -CP
C627	08S45232Y17	CAP,CER 104K-B0J -CP
C631	08S35374W12	CAP,CER 106K-B0J -CP
C632	08S45232Y05	CAP,CER 102K-B1H -CP
C633	08S45232Y05	CAP,CER 102K-B1H -CP
C634	08S45232Y05	CAP,CER 102K-B1H -CP
C635	08S45232Y05	CAP,CER 102K-B1H -CP
C636	08S45232Y05	CAP,CER 102K-B1H -CP
C637	08S45232Y05	CAP,CER 102K-B1H -CP
C638	08S45232Y05	CAP,CER 102K-B1H -CP
C639	08S45232Y05	CAP,CER 102K-B1H -CP
C640	08S45232Y05	CAP,CER 102K-B1H -CP
C641	08S45232Y05	CAP,CER 102K-B1H -CP
C642	08S45232Y05	CAP,CER 102K-B1H -CP
C643	08S45232Y05	CAP,CER 102K-B1H -CP
C644	08S45232Y05	CAP,CER 102K-B1H -CP
C645	08S45232Y05	CAP,CER 102K-B1H -CP
C646	08S45232Y05	CAP,CER 102K-B1H -CP
C647	08S45232Y05	CAP,CER 102K-B1H -CP
C648	08S45232Y05	CAP,CER 102K-B1H -CP
C651	08S65670Y01	CAP,CER 106KX5R1C-CP
C652	08S65670Y01	CAP,CER 106KX5R1C-CP

IVA-D310R/IVA-D310RB

C653	08S45232Y05	CAP,CER 102K-B1H -CP
C654	08S45232Y05	CAP,CER 102K-B1H -CP
C655	08S45232Y17	CAP,CER 104K-B0J -CP
C658	08S35374W12	CAP,CER 106K-B0J -CP
C671	08S45232Y11	CAP,CER 103K-B1C -CP
C672	08S45232Y17	CAP,CER 104K-B0J -CP
C673	08S45232Y17	CAP,CER 104K-B0J -CP
C674	08S45232Y17	CAP,CER 104K-B0J -CP
C675	08S45232Y17	CAP,CER 104K-B0J -CP
C676	08S45232Y17	CAP,CER 104K-B0J -CP
C677	08S45232Y17	CAP,CER 104K-B0J -CP
C678	08S45232Y17	CAP,CER 104K-B0J -CP
C679	08S45232Y17	CAP,CER 104K-B0J -CP
C680	08S35349Y16	CAP,CER 105K-B1A -CP
C681	08S35349Y16	CAP,CER 105K-B1A -CP
C682	08S45232Y17	CAP,CER 104K-B0J -CP
C683	08S45232Y17	CAP,CER 104K-B0J -CP
C684	08S45232Y17	CAP,CER 104K-B0J -CP
C685	08S45232Y17	CAP,CER 104K-B0J -CP
C688	08S45232Y07	CAP,CER 222K-B1H -CP
C689	08S45232Y07	CAP,CER 222K-B1H -CP
C690	08S45232Y11	CAP,CER 103K-B1C -CP
C691	08S45231Y23	CAP,CER 68RJ-CH1H-CP
C701	08S65670Y01	CAP,CER 106KX5R1C-CP
C702	08S65670Y01	CAP,CER 106KX5R1C-CP
C711	08S45232Y05	CAP,CER 102K-B1H -CP
C712	08S45232Y05	CAP,CER 102K-B1H -CP
C713	08S45232Y05	CAP,CER 102K-B1H -CP
C721	08S45232Y05	CAP,CER 102K-B1H -CP
C725	08S45232Y05	CAP,CER 102K-B1H -CP
C731	08S45232Y17	CAP,CER 104K-B0J -CP
C732	08S45232Y05	CAP,CER 102K-B1H -CP
C733	08S45232Y05	CAP,CER 102K-B1H -CP
C734	08S45232Y17	CAP,CER 104K-B0J -CP
C735	08S45232Y17	CAP,CER 104K-B0J -CP
C736	08S45232Y05	CAP,CER 102K-B1H -CP
C737	08S45232Y05	CAP,CER 102K-B1H -CP
C738	08S45232Y17	CAP,CER 104K-B0J -CP
C739	08S45232Y05	CAP,CER 102K-B1H -CP
C740	08S45232Y05	CAP,CER 102K-B1H -CP
C741	08S45232Y05	CAP,CER 102K-B1H -CP
C742	08S45232Y05	CAP,CER 102K-B1H -CP
C801	08T65555Y01	CAP,CER 226K-BJ0J-CP
C802	08T65555Y01	CAP,CER 226K-BJ0J-CP
C803	08S35349Y12	CAP,CER 105K-B0J -CP
C804	08S45676W80	CAP,CER 223K-B1E -CP
C811	08T65555Y01	CAP,CER 226K-BJ0J-CP
C812	08T65555Y01	CAP,CER 226K-BJ0J-CP
C813	08S35349Y12	CAP,CER 105K-B0J -CP
C814	08S45676W80	CAP,CER 223K-B1E -CP
C821	08S45232Y13	CAP,CER 223K-B1C -CP
C831	08S45232Y13	CAP,CER 223K-B1C -CP
C841	08S45232Y17	CAP,CER 104K-B0J -CP
C842	08T65555Y01	CAP,CER 226K-BJ0J-CP
C843	08S45232Y17	CAP,CER 104K-B0J -CP
C844	08T65555Y01	CAP,CER 226K-BJ0J-CP
C845	08S45232Y17	CAP,CER 104K-B0J -CP

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C846	08S45232Y17	CAP,CER 104K-B0J -CP
C850	08S45232Y08	CAP,CER 332K-B1H -CP
C851	08S45232Y08	CAP,CER 332K-B1H -CP
C854	08S45232Y11	CAP,CER 103K-B1C -CP
C855	08S45232Y08	CAP,CER 332K-B1H -CP
C860	08T81833F13	CAP,CER 106K-B1C -CP
C861	08S45232Y17	CAP,CER 104K-B0J -CP
C862	08T81833F13	CAP,CER 106K-B1C -CP
C865	08S65668Y04	CAP,CER 104KX5R1A-CP
C866	08T81833F13	CAP,CER 106K-B1C -CP
C867	08T81833F13	CAP,CER 106K-B1C -CP
C868	08S35374W10	CAP,CER 225K-B1A -CP
C869	08S35374W10	CAP,CER 225K-B1A -CP
C870	08S65668Y04	CAP,CER 104KX5R1A-CP
C871	08S45232Y11	CAP,CER 103K-B1C -CP
C872	08S45232Y17	CAP,CER 104K-B0J -CP
C874	08S45232Y17	CAP,CER 104K-B0J -CP
C875	08S45232Y17	CAP,CER 104K-B0J -CP
C876	08S45232Y11	CAP,CER 103K-B1C -CP
C878	08S45232Y08	CAP,CER 332K-B1H -CP
C880	08T81833F13	CAP,CER 106K-B1C -CP
C881	08S45231Y25	CAP,CER 101J-CH1H-CP
C882	08S45677W40	CAP,CER.151J-CH1H-CP
C883	08S45677W40	CAP,CER.151J-CH1H-CP
C884	08S45231Y25	CAP,CER 101J-CH1H-CP
C885	08S45677W40	CAP,CER.151J-CH1H-CP
C886	08S45677W40	CAP,CER.151J-CH1H-CP
C901	08S65667Y05	CAP,CER 105KX5R1A-CP
C902	08S45232Y05	CAP,CER 102K-B1H -CP
C903	08S65667Y05	CAP,CER 105KX5R1A-CP
C904	08S45232Y17	CAP,CER 104K-B0J -CP
C908	08S45232Y05	CAP,CER 102K-B1H -CP
C909	08T81833F12	CAP,CER 106K-B1A -CP
C913	08S45232Y05	CAP,CER 102K-B1H -CP
C914	08S35349Y16	CAP,CER 105K-B1A -CP
C923	08S45232Y05	CAP,CER 102K-B1H -CP
C924	08S35349Y16	CAP,CER 105K-B1A -CP
C925	08S35374W12	CAP,CER 106K-B0J -CP
C926	08S65667Y05	CAP,CER 105KX5R1A-CP
CB501	09T45442Y45	FFC,54104-4592 -EQ
CB502	09T15107Y24	FFC,52435-2491 -ED
CB504	09T15107Y10	FFC,52745-1090 -E9
CB801	09T15107Y28	FFC,52435-2891 -ED
CB861	09T15107Y24	FFC,52435-2491 -ED
D601	48T25665Y01	DIO,1SS355-TE17 -CP
IC511	51T15185Y01	TC7SH08FU-TE85L -CP
IC512	51T35123Y01	TC7W14FK-TE85L -CP
IC601	51-00740Z02	MN35207UB -QT
IC711	51T75359Y01	TC74VHC573FT-EL -SE5
IC712	51T75359Y01	TC74VHC573FT-EL -SE5
IC713	51T15185Y01	TC7SH08FU-TE85L -CP
IC721	53-04487Z08	OFL,V1.0012DV37M050
IC725	51-00726Z01	MB85R256PFTN -ST
IC731	51-04096Z01	EDS6432AFTA-75TI -ST
IC861	51T55021Y02	BD7905BFS-E2 -SEE
L501	24T65689Y01	FBI,FBMJ2125HS420-CP
L502	24T65689Y01	FBI,FBMJ2125HS420-CP

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L503	24T65689Y01	FBI,FBMJ2125HS420-CP
L601	24T95456W27	FBI,BLM18PG181SH1-CP
L604	24T95456W27	FBI,BLM18PG181SH1-CP
L605	24T95456W27	FBI,BLM18PG181SH1-CP
L841	24T25164Y25	IND,FSLM2520 10RJ-CP
L901	24T95456W27	FBI,BLM18PG181SH1-CP
L911	24T95456W12	FBI,BLM18AG102SH1-CP
L912	24T65331Y07	IND,LEMF2520 10RK-CP
L921	24T95456W12	FBI,BLM18AG102SH1-CP
L922	24T65331Y07	IND,LEMF2520 10RK-CP
Q801	48T75011W01	TR,2SD1782K-PQR-6-CP
Q802	48T55462Y01	TR,2SB1132-QR-100-E2
Q810	48T75366Y06	TR,FMC2-T148 -CP
Q811	48T75011W01	TR,2SD1782K-PQR-6-CP
Q812	48T55462Y01	TR,2SB1132-QR-100-E2
Q831	48T25137Y02	TR,UN9212J-TX -CP
Q832	48T25137Y06	TR,UN9216J-TX -CP
Q833	48T25137Y06	TR,UN9216J-TX -CP
Q911	48T63420F03	TR,2SA1037AK-R146-CP
Q921	48T63420F03	TR,2SA1037AK-R146-CP
R501	06S15615Y81	RES,RK 223J 1/16 -CP
R502	06S15615Y81	RES,RK 223J 1/16 -CP
R503	06S15615Y81	RES,RK 223J 1/16 -CP
R504	06S15615Y81	RES,RK 223J 1/16 -CP
R505	06S15615Y81	RES,RK 223J 1/16 -CP
R506	06S15615Y81	RES,RK 223J 1/16 -CP
R507	06S15615Y81	RES,RK 223J 1/16 -CP
R511	06S15615Y81	RES,RK 223J 1/16 -CP
R512	06S15615Y81	RES,RK 223J 1/16 -CP
R513	06S15615Y81	RES,RK 223J 1/16 -CP
R514	06S15615Y81	RES,RK 223J 1/16 -CP
R516	06S15615Y81	RES,RK 223J 1/16 -CP
R517	06S15615Y81	RES,RK 223J 1/16 -CP
R518	06S15615Y25	RES,RK 101J 1/16 -CP
R519	06S15615Y25	RES,RK 101J 1/16 -CP
R520	06S15615Y25	RES,RK 101J 1/16 -CP
R521	06S15615Y25	RES,RK 101J 1/16 -CP
R551	06S15615Y49	RES,RK 102J 1/16 -CP
R552	06S15615Y81	RES,RK 223J 1/16 -CP
R553	06S15615Y49	RES,RK 102J 1/16 -CP
R554	06S15615Y25	RES,RK 101J 1/16 -CP
R555	06S15615Y13	RES,RK 33RJ 1/16 -CP
R556	06S15615Y13	RES,RK 33RJ 1/16 -CP
R557	06S15615Y13	RES,RK 33RJ 1/16 -CP
R558	06S15615Y13	RES,RK 33RJ 1/16 -CP
R559	06S15615Y13	RES,RK 33RJ 1/16 -CP
R560	06S15615Y13	RES,RK 33RJ 1/16 -CP
R561	06S15615Y13	RES,RK 33RJ 1/16 -CP
R562	06S15615Y13	RES,RK 33RJ 1/16 -CP
R563	06S15615Y13	RES,RK 33RJ 1/16 -CP
R564	06S15615Y13	RES,RK 33RJ 1/16 -CP
R565	06S15615Y13	RES,RK 33RJ 1/16 -CP
R566	06S15615Y13	RES,RK 33RJ 1/16 -CP
R567	06S15615Y13	RES,RK 33RJ 1/16 -CP
R568	06S15615Y25	RES,RK 101J 1/16 -CP
R569	06S15615Y17	RES,RK 47RJ 1/16 -CP
R570	06S15615Y17	RES,RK 47RJ 1/16 -CP

IVA-D310R/IVA-D310RB

R571	06S15615Y17	RES,RK 47RJ 1/16 -CP
R572	06S15615Y17	RES,RK 47RJ 1/16 -CP
R573	06S15615Y17	RES,RK 47RJ 1/16 -CP
R574	06S15615Y17	RES,RK 47RJ 1/16 -CP
R575	06S15615Y17	RES,RK 47RJ 1/16 -CP
R576	06S15615Y25	RES,RK 101J 1/16 -CP
R601	06S15615Y81	RES,RK 223J 1/16 -CP
R602	06S15615Y91	RES,RK 563J 1/16 -CP
R603	06S15615Y29	RES,RK 151J 1/16 -CP
R604	06S15615Y81	RES,RK 223J 1/16 -CP
R611	06S15615Y81	RES,RK 223J 1/16 -CP
R612	06S15616Y23	RES,RK JUMPER1/16-CP
R613	06S15615Y65	RES,RK 472J 1/16 -CP
R614	06S15615Y81	RES,RK 223J 1/16 -CP
R617	06S15593Y53	RES,RK 152F 1/10 -CP
R618	06S15593Y97	RES,RK 104F 1/10 -CP
R619	06S15593Y59	RES,RK 272F 1/10 -CP
R620	06S15594Y02	RES,RK 154F 1/10 -CP
R625	06S15615Y81	RES,RK 223J 1/16 -CP
R626	06S15616Y23	RES,RK JUMPER1/16-CP
R627	06S15615Y13	RES,RK 33RJ 1/16 -CP
R628	06S15615Y13	RES,RK 33RJ 1/16 -CP
R629	06S15615Y13	RES,RK 33RJ 1/16 -CP
R630	06S15615Y81	RES,RK 223J 1/16 -CP
R634	06S15615Y81	RES,RK 223J 1/16 -CP
R635	06S15615Y81	RES,RK 223J 1/16 -CP
R636	06S15615Y81	RES,RK 223J 1/16 -CP
R637	06S15615Y81	RES,RK 223J 1/16 -CP
R638	06S15615Y81	RES,RK 223J 1/16 -CP
R639	06S15615Y81	RES,RK 223J 1/16 -CP
R641	06S15615Y21	RES,RK 68RJ 1/16 -CP
R642	06S15615Y25	RES,RK 101J 1/16 -CP
R643	06S15615Y21	RES,RK 68RJ 1/16 -CP
R644	06S15615Y25	RES,RK 101J 1/16 -CP
R645	06S15615Y21	RES,RK 68RJ 1/16 -CP
R646	06S15615Y25	RES,RK 101J 1/16 -CP
R647	06S15615Y21	RES,RK 68RJ 1/16 -CP
R648	06S15615Y25	RES,RK 101J 1/16 -CP
R649	06S15615Y21	RES,RK 68RJ 1/16 -CP
R650	06S15615Y25	RES,RK 101J 1/16 -CP
R651	06S15615Y21	RES,RK 68RJ 1/16 -CP
R652	06S15615Y25	RES,RK 101J 1/16 -CP
R653	06S15615Y21	RES,RK 68RJ 1/16 -CP
R654	06S15615Y25	RES,RK 101J 1/16 -CP
R655	06S15615Y21	RES,RK 68RJ 1/16 -CP
R656	06S15615Y25	RES,RK 101J 1/16 -CP
R657	06S15615Y21	RES,RK 68RJ 1/16 -CP
R658	06S15615Y21	RES,RK 68RJ 1/16 -CP
R659	06S15615Y21	RES,RK 68RJ 1/16 -CP
R660	06S15615Y21	RES,RK 68RJ 1/16 -CP
R661	06S15615Y21	RES,RK 68RJ 1/16 -CP
R662	06S15615Y21	RES,RK 68RJ 1/16 -CP
R663	06S15615Y21	RES,RK 68RJ 1/16 -CP
R664	06S15615Y21	RES,RK 68RJ 1/16 -CP
R665	06S15615Y21	RES,RK 68RJ 1/16 -CP
R666	06S15615Y21	RES,RK 68RJ 1/16 -CP
R667	06S15615Y21	RES,RK 68RJ 1/16 -CP

IVA-D310R/IVA-D310RB

R668	06S15615Y21	RES,RK 68RJ 1/16 -CP
R669	06S15615Y21	RES,RK 68RJ 1/16 -CP
R670	06S15615Y21	RES,RK 68RJ 1/16 -CP
R671	06S15615Y21	RES,RK 68RJ 1/16 -CP
R672	06S15615Y21	RES,RK 68RJ 1/16 -CP
R673	06S15615Y21	RES,RK 68RJ 1/16 -CP
R674	06S15615Y01	RES,RK 10RJ 1/16 -CP
R675	06S15615Y09	RES,RK 22RJ 1/16 -CP
R676	06S15615Y21	RES,RK 68RJ 1/16 -CP
R677	06S15615Y21	RES,RK 68RJ 1/16 -CP
R678	06S15615Y21	RES,RK 68RJ 1/16 -CP
R679	06S15615Y21	RES,RK 68RJ 1/16 -CP
R680	06S15615Y21	RES,RK 68RJ 1/16 -CP
R681	06S15615Y25	RES,RK 101J 1/16 -CP
R682	06S15615Y21	RES,RK 68RJ 1/16 -CP
R683	06S15615Y25	RES,RK 101J 1/16 -CP
R684	06S15615Y25	RES,RK 101J 1/16 -CP
R685	06S15615Y25	RES,RK 101J 1/16 -CP
R686	06S15615Y25	RES,RK 101J 1/16 -CP
R687	06S15615Y25	RES,RK 101J 1/16 -CP
R688	06S15615Y25	RES,RK 101J 1/16 -CP
R689	06S15615Y25	RES,RK 101J 1/16 -CP
R690	06S15615Y25	RES,RK 101J 1/16 -CP
R691	06S15615Y25	RES,RK 101J 1/16 -CP
R692	06S15615Y25	RES,RK 101J 1/16 -CP
R693	06S15615Y25	RES,RK 101J 1/16 -CP
R694	06S15615Y25	RES,RK 101J 1/16 -CP
R695	06S15615Y25	RES,RK 101J 1/16 -CP
R696	06S15615Y25	RES,RK 101J 1/16 -CP
R697	06S15615Y81	RES,RK 223J 1/16 -CP
R698	06S15615Y81	RES,RK 223J 1/16 -CP
R699	06S45675W43	RES,RK JUMPER1/10-CP
R701	06S15616Y23	RES,RK JUMPER1/16-CP
R702	06S15616Y23	RES,RK JUMPER1/16-CP
R703	06S15615Y17	RES,RK 47RJ 1/16 -CP
R704	06S15616Y23	RES,RK JUMPER1/16-CP
R705	06S15616Y23	RES,RK JUMPER1/16-CP
R706	06S15615Y81	RES,RK 223J 1/16 -CP
R707	06S15615Y81	RES,RK 223J 1/16 -CP
R708	06S15615Y81	RES,RK 223J 1/16 -CP
R711	06S15616Y23	RES,RK JUMPER1/16-CP
R712	06S15615Y81	RES,RK 223J 1/16 -CP
R721	06S15615Y81	RES,RK 223J 1/16 -CP
R732	06S15615Y81	RES,RK 223J 1/16 -CP
R751	06S15615Y17	RES,RK 47RJ 1/16 -CP
R752	06S15615Y17	RES,RK 47RJ 1/16 -CP
R753	06S15615Y17	RES,RK 47RJ 1/16 -CP
R754	06S15615Y17	RES,RK 47RJ 1/16 -CP
R755	06S15615Y17	RES,RK 47RJ 1/16 -CP
R756	06S15615Y17	RES,RK 47RJ 1/16 -CP
R757	06S15615Y17	RES,RK 47RJ 1/16 -CP
R758	06S15615Y17	RES,RK 47RJ 1/16 -CP
R759	06S15615Y17	RES,RK 47RJ 1/16 -CP
R760	06S15615Y17	RES,RK 47RJ 1/16 -CP
R761	06S15615Y17	RES,RK 47RJ 1/16 -CP
R762	06S15615Y17	RES,RK 47RJ 1/16 -CP
R763	06S15615Y17	RES,RK 47RJ 1/16 -CP

IVA-D310R/IVA-D310RB

R764	06S15615Y17	RES,RK 47RJ 1/16 -CP
R765	06S15615Y17	RES,RK 47RJ 1/16 -CP
R767	06S15615Y17	RES,RK 47RJ 1/16 -CP
R771	06S15615Y81	RES,RK 223J 1/16 -CP
R772	06S15615Y81	RES,RK 223J 1/16 -CP
R773	06S15615Y81	RES,RK 223J 1/16 -CP
R774	06S15615Y81	RES,RK 223J 1/16 -CP
R775	06S15615Y81	RES,RK 223J 1/16 -CP
R776	06S15615Y81	RES,RK 223J 1/16 -CP
R777	06S15615Y81	RES,RK 223J 1/16 -CP
R778	06S15615Y81	RES,RK 223J 1/16 -CP
R779	06S15615Y81	RES,RK 223J 1/16 -CP
R780	06S15615Y81	RES,RK 223J 1/16 -CP
R781	06S15615Y81	RES,RK 223J 1/16 -CP
R782	06S15615Y81	RES,RK 223J 1/16 -CP
R783	06S15615Y81	RES,RK 223J 1/16 -CP
R784	06S15615Y81	RES,RK 223J 1/16 -CP
R785	06S15615Y81	RES,RK 223J 1/16 -CP
R786	06S15615Y81	RES,RK 223J 1/16 -CP
R801	06S15615Y41	RES,RK 471J 1/16 -CP
R802	06S15615Y41	RES,RK 471J 1/16 -CP
R803	06S15615Y09	RES,RK 22RJ 1/16 -CP
R804	06S45675W43	RES,RK JUMPER1/10-CP
R805	06S65522Y17	RES,RK 2R2F 1/4 -CP
R806	06S45675W06	RES,RK 104J 1/10 -CP
R811	06S15615Y41	RES,RK 471J 1/16 -CP
R812	06S15615Y41	RES,RK 471J 1/16 -CP
R813	06S15615Y09	RES,RK 22RJ 1/16 -CP
R814	06S45675W43	RES,RK JUMPER1/10-CP
R815	06S65522Y17	RES,RK 2R2F 1/4 -CP
R816	06S45675W06	RES,RK 104J 1/10 -CP
R821	06S35083Y01	RES,RK 10RF 1/4 -CP
R822	06S35083Y01	RES,RK 10RF 1/4 -CP
R825	06S15616Y23	RES,RK JUMPER1/16-CP
R826	06S15616Y23	RES,RK JUMPER1/16-CP
R827	06S15616Y23	RES,RK JUMPER1/16-CP
R830	06S15615Y25	RES,RK 101J 1/16 -CP
R831	06S15615Y49	RES,RK 102J 1/16 -CP
R832	06S15615Y23	RES,RK 82RJ 1/16 -CP
R833	06S15615Y23	RES,RK 82RJ 1/16 -CP
R835	06S15615Y25	RES,RK 101J 1/16 -CP
R844	06S15616Y23	RES,RK JUMPER1/16-CP
R849	06S15616Y23	RES,RK JUMPER1/16-CP
R850	06S15616Y23	RES,RK JUMPER1/16-CP
R851	06S15616Y23	RES,RK JUMPER1/16-CP
R852	06S15616Y23	RES,RK JUMPER1/16-CP
R853	06S15616Y23	RES,RK JUMPER1/16-CP
R854	06S15616Y23	RES,RK JUMPER1/16-CP
R855	06S15615Y25	RES,RK 101J 1/16 -CP
R856	06S15615Y73	RES,RK 103J 1/16 -CP
R857	06S15615Y73	RES,RK 103J 1/16 -CP
R858	06S15615Y25	RES,RK 101J 1/16 -CP
R859	06S15615Y25	RES,RK 101J 1/16 -CP
R860	06S15615Y73	RES,RK 103J 1/16 -CP
R861	06S45674W02	RES,RK 2R7J 1/10 -CP
R862	06S45674W02	RES,RK 2R7J 1/10 -CP
R863	06S45674W02	RES,RK 2R7J 1/10 -CP

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R864	06S45674W02	RES,RK 2R7J 1/10 -CP
R865	06S45674W02	RES,RK 2R7J 1/10 -CP
R866	06S45674W02	RES,RK 2R7J 1/10 -CP
R867	06S45674W02	RES,RK 2R7J 1/10 -CP
R868	06S45674W02	RES,RK 2R7J 1/10 -CP
R869	06S45674W02	RES,RK 2R7J 1/10 -CP
R870	06S45674W02	RES,RK 2R7J 1/10 -CP
R872	06S45675W45	RES,RK 1R0J 1/10 -CP
R873	06S45675W45	RES,RK 1R0J 1/10 -CP
R874	06S45675W45	RES,RK 1R0J 1/10 -CP
R875	06S45675W45	RES,RK 1R0J 1/10 -CP
R876	06S15615Y33	RES,RK 221J 1/16 -CP
R877	06S15615Y27	RES,RK 121J 1/16 -CP
R878	06S15615Y73	RES,RK 103J 1/16 -CP
R880	06S15616Y23	RES,RK JUMPER1/16-CP
R881	06S15615Y73	RES,RK 103J 1/16 -CP
R882	06S15615Y81	RES,RK 223J 1/16 -CP
R883	06S15615Y25	RES,RK 101J 1/16 -CP
R884	06S15615Y73	RES,RK 103J 1/16 -CP
R885	06S15615Y81	RES,RK 223J 1/16 -CP
R886	06S15615Y25	RES,RK 101J 1/16 -CP
R889	06S15615Y25	RES,RK 101J 1/16 -CP
R890	06S15615Y81	RES,RK 223J 1/16 -CP
R891	06S15616Y23	RES,RK JUMPER1/16-CP
R896	06S15615Y73	RES,RK 103J 1/16 -CP
R897	06S15615Y73	RES,RK 103J 1/16 -CP
R901	06S15616Y32	RES,RK 6R8J 1/16 -CP
R902	06-02713Z03	RES,RK 223D 1/16 -CP
R903	06-02713Z01	RES,RK 33RD 1/16 -CP
R904	06-02712Z01	RES,RK 121D 1/16 -CP
R905	06-02712Z04	RES,RK 471D 1/16 -CP
R906	06S15616Y23	RES,RK JUMPER1/16-CP
R907	06S15616Y23	RES,RK JUMPER1/16-CP
R911	06-02741Z01	RES,RK 331D 1/16 -CP
R912	06-02741Z01	RES,RK 331D 1/16 -CP
R913	06S15615Y09	RES,RK 22RJ 1/16 -CP
R914	06S45674W45	RES,RK 331J 1/10 -CP
R915	06S45674W45	RES,RK 331J 1/10 -CP
R921	06S15593Y37	RES,RK 331F 1/10 -CP
R922	06S15593Y37	RES,RK 331F 1/10 -CP
R923	06S15615Y09	RES,RK 22RJ 1/16 -CP
R924	06S45674W45	RES,RK 331J 1/10 -CP
R925	06S45674W45	RES,RK 331J 1/10 -CP
R926	06S15615Y31	RES,RK 181J 1/16 -CP
R927	06S45675W43	RES,RK JUMPER1/10-CP
SD801	48T75104Y01	DIO,SHT RB521G-30-CP
SD802	48T75104Y01	DIO,SHT RB521G-30-CP
TH601	48T75201Y03	TMT,NCP15XH103F0S-CP
TH602	48T75201Y03	TMT,NCP15XH103F0S-CP
XL601	91T75115Y01	XTL,FXO-64FL2 27M-E2
Z571	91T75196Y03	EMI,BK1005LL100 -CP
Z572	91T75196Y03	EMI,BK1005LL100 -CP
Z573	91T75196Y03	EMI,BK1005LL100 -CP
Z574	91T75196Y03	EMI,BK1005LL100 -CP
Z575	91T75196Y15	EMI,BK1005HM121 -CP
Z576	91T75196Y15	EMI,BK1005HM121 -CP
Z577	91T75196Y15	EMI,BK1005HM121 -CP

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Z578	91T75196Y15	EMI,BK1005HM121 -CP
Z579	91T75196Y15	EMI,BK1005HM121 -CP
Z580	91T75196Y15	EMI,BK1005HM121 -CP
Z581	91T75196Y24	EMI,BK1005LL241 -CP
Z582	91T75196Y03	EMI,BK1005LL100 -CP
Z583	91T75196Y03	EMI,BK1005LL100 -CP
Z584	91T75196Y03	EMI,BK1005LL100 -CP
Z585	91T75196Y03	EMI,BK1005LL100 -CP
Z586	91T75196Y03	EMI,BK1005LL100 -CP
Z840	91T75196Y13	EMI,BK1005HS241 -CP
Z841	91T75196Y13	EMI,BK1005HS241 -CP
Z842	91T75196Y13	EMI,BK1005HS241 -CP
Z843	91T75196Y13	EMI,BK1005HS241 -CP
Z845	91T75196Y13	EMI,BK1005HS241 -CP
Z846	91T75196Y13	EMI,BK1005HS241 -CP
Z847	91T75196Y13	EMI,BK1005HS241 -CP
Z848	91T75196Y13	EMI,BK1005HS241 -CP
ZD901	48T55269Y01	DIO,ZEN LM4041CIM3CP

===== Miscellaneous

CB3701	09T13515W12	WTB,5569-12A1 -DB
CH4700	09T65215Y66	BTB,CAM-C74-016 -B
DIN6303	01T65559Y04	ASSY,DIN CABLE D310
IC8801	51T75111W01	TOTX193 -DS
JK6301	09T55293Y01	JAC,HSJ6061-01-440DB
LCD4500	65-01116Z01	LCD,WTB-22638AAHU-CU
LCD8002	01T75423Y01	LCD,A070FW03
M8905	01V66100Y70	ASSY,MOTOR LD
M8906	01V66100Y68	ASSY,MOTOR TL
SW4500	40T45279Y05	ENC,EC09E15244 -DB
SW8951	40T15494Y08	SW,DETCT SPVG11 -E6
SW8952	40T15494Y08	SW,DETCT SPVG11 -E6
SW8953	40T15494Y07	SW,DETCT SPVG21 -E6
SW8954	40T15494Y07	SW,DETCT SPVG21 -E6

=====DV37M050

HD101	EP-00829Z01	ED21A510
M101	59-01510Z01	MOTOR,M1N10FB95G
M102	59-02071Z01	MOTOR,24C0303020
M103	59T65142Y01	MOTOR,MSDV020L01
SW406	40T15494Y12	SW,DETCT SPVG2303-E6
SW801	40T55230Y01	SW,DETCT ESE13V01CE5
SW802	40T55230Y01	SW,DETCT ESE13V01CE5
SW803	40T55043Y02	SW,DETCT SPVL12 -E5
SW804	40T15494Y12	SW,DETCT SPVG2303-E6
SW805	40T55230Y01	SW,DETCT ESE13V01CE5

Cabinet Assembly Parts List (Monitor Unit)

NOTE : The part that has not PART NUMBER will not be supplied.

#1 : For IVA-D310R Model Only, \$1 : For IVA-D310RB Model Only,
Others : Common.

#1	1	EN-01773Z03	NOSE,MONITOR ASSY
\$1	1	EN-01773Z04	NOSE,MONITOR ASSY
	2	-----	JL44A02A
	3	-----	CHAS,BASE
	5	03S63857F51	SCR,TPG M3X10
	8	15-01768Z01	CASE,LCD ASSY
	9	15-01769Z01	COVER,LCD
	10	26-01770Z01	REFLECTOR,SHEET
	11	75T35663Y05	RUBBER,ELECTRIC
	15	14A70032Y01	INS,COVER FPC
	16	03S60822Y07	SCR,S-T 2.6X4 ZN A
	17	03S60820Y37	SCR,MCH 2X3 ZNNA
	18	75S61553Y36	CUS,RUB 10X6XT1.2
	19	75A70778Y01	CUS,RUB T-PANEL
	20	01T75549Y01	TOUCH PANEL RAD300AO
	21	14A70455Y01	INS,PWB LCD
	22	30T04251K03	SML2CD10X37-BDX6(BL)
	23	14A61699Y01	INS,FPC D900
	24	EN-01774Z03	MONITOR,TOP ASSY
	25	03-00712Z17	SCR,MCH 1.4X8 ZB A
	26	03-00712Z20	SCR,MCH 1.4X3 ZB A
	27	03-02876Z05	SCR,WEV 2X4 ZB A
	28	03S60823Y04	SCR,P-T 2X6 ZN A
	29	34-01767Z03	SCALE,TOP
	30	14S70565Y02	INS,CVR 30X7XT0.1
	31	14A70812Y01	INS,PWB LCD (2)
	32	75T65297Y24	CUS,SLD 20-4.0ES5L10
	33	75S61553Y58	CUS,RUB 20X5XT0.5
	34	84-02304Z01	FPC,MAIN RDAL402A
#1	35	EN-01776Z03	NOSE,DF ASSY
\$1	35	EN-01776Z02	NOSE,DF ASSY
	36	36B70682Y02	KNOB,ROTARY ASSY
	37	13-01766Z01	NOSE,BOTTOM
	38	03S68555F20	SCR,WAVE M1.7X5
	39	41A50111W10	SPRING,KNOB
	40	EN-01778Z01	FRONT,ESC ASSY
	41	03S60823Y17	SCR,P-T 2X4 ZN A
	42	15-01763Z01	HOLDER,DISC ASSY
	43	30-02241Z02	SML2SC24X102-BDX6
	44	30T04251K05	SML2CD20X150-ADX5
	45	30T04251K04	SML2CD45X102-BDX6
	46	14B70479Y01	INS,MAIN
	47	15C71937W02	COVER,CONN.D-OUT
	48	15-02245Z01	COVER,DV-TM
	49	01T65457Y01	ASSY,WIRE OPT
	50	03S60822Y07	SCR,S-T 2.6X4 ZN A
	51	03S60822Y05	SCR,S-T 2.6X3 ZN A
	52	14S31545Y50	INS,CVR 60X60XT0.1
	53	03S60822Y33	SCR,S-T 2.6X4.5 ZN A

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58	DV-00908Z01	DV37M050
101	-----	ASSY,RIV CHAS TOP
102	44A60217Y01	GEAR,LD1
103	44A60218Y01	GEAR,LD2
104	47A60041Y01	SHAFT,LD
105	15C60059Y02	COVER,CHAS SLIDE
106	44B60043Y01	GEAR,TL1
107	44A60044Y01	GEAR,TL2
108	44A60045Y01	GEAR,TL3
109	15D60055Y01	HOLDER,FPC
110	03S60821Y01	SCR,WAS 2X3 ZN A
111	03S60820Y37	SCR,MCH 2X3 ZNNA
112	03S60821Y05	SCR,WAS 2X8 ZN A
113	01C70439Y02	ASSY,RIV BKT BTM
114	07A70434Y01	BKT,LEVER SW2
115	41A70447Y01	SPRING,MONITOR
116	03S60821Y09	SCR,WAS 2.6X5 ZN A
117	04B41345P38	WASH,2.6X4.7XT0.25
118	43A61388Y01	BUSH,MONITOR
119	03S60821Y15	SCR,WAS 2.6X16 ZN A
120	01V66300Y34	ASSY,MECHA PANEL
121	07A61647Y01	BKT,STOPPER
122	75S61553Y02	CUS,RUB 10X24XT4
123	03S94385F18	SCR,NYLOK M2X3.5
124	03S68259F23	SCR,P-LOCK M2X3
125	01A61390Y01	ASSY,RIV BKT MTR LD
126	01A61389Y01	ASSY,RIV BKT MTR TL
127	-----	ASSY,RIV CHAS SLIDE
128	45B60058Y01	SLIDER,LOAD
129	15B60056Y01	COVER,LOAD(L)
130	15B60057Y01	COVER,LOAD(R)
131	45C70435Y01	SLIDER,SW2
132	41A60065Y01	SPRING,LEVER SW
133	41B60754Y01	SPRING,GND
134	43A61579Y01	BUSH,CHAS SLIDE
135	44A60051Y01	GEAR,DRIVE(A)
136	04B41345P45	WASH,2.1X4.5X0.35
137	44A70451Y01	GEAR,TL8 MOLD
138	45B70039Y01	SLIDER,LOAD(R)
139	47B60061Y01	SHAFT,DRIVE
140	44A60052Y01	GEAR,DRIVE(B)
141	41A61505Y01	SPRING,DRIVE
142	43A61504Y01	BUSH,SPRING
143	01A60028Y01	ASSY,RIV BKT GER TL
144	44A60046Y01	GEAR,TL4
145	44A60047Y01	GEAR,TL5
146	44B60219Y01	GEAR,LMT
147	44A60049Y01	GEAR,TL7
148	47A60042Y01	SHAFT,TL
149	01A60032Y01	ASSY,RIV BKT SENSOR
150	44A60040Y01	GEAR,SENSOR
151	44C60752Y01	RACK,LOAD(L)
152	44C60753Y01	RACK,LOAD(R)
153	03-00712Z31	SCR,MCH 2X2 ZBNA
154	01A70444Y01	ASSY,RIV BKT SPG
155	04B41345P09	WASH,2.3X7X0.25
156	44A60050Y01	GEAR,TL8

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157	03-00712Z19	SCR,MCH 2.6X4 ZB A
158	07A70448Y01	BKT,SPRING STOPPER
159	03S60820Y33	SCR,MCH 2X3.5 ZNCA

DVD Deck Mechanism Assembly Parts List

NOTE : The part that has not PART NUMBER will not be supplied.

2	01A51490Y01	ASSY,RIV GUIDE TOP
3	-----	CHASSIS,TOP
4	41A60338Y01	SPRING,DRIVE F-L
5	41A60339Y01	SPRING,DRIVE F-R
6	41A60340Y01	SPRING,DRIVE R
7	41A60344Y01	SPRING,LEV ROLL-L
8	03S94385F19	SCR,NYLOK M2X2.5
9	43-01050Z01	ROLLER,DISC PIN
12	14-01064Z01	INSULATOR,PWB L2
13	-----	ASSY,RIV CHAS BASE
14	45C51003Y02	LEVER,TRIGER MAIN
15	41A51395Y01	SPRING,LEV TRG MAIN
16	45A50833Y01	LEVER,LINK SLDR(R)
17	45B51221Y01	SLIDER,LOCK(R2)
18	41A51396Y01	SPRING,SLD LOCK(R2)
19	45C51237Y02	SLIDER,LOCK(R1)
20	44A50829Y01	GEAR,LOAD (E)
21	45-01051Z01	SLIDER,DISC SW(L)
22	45-01052Z01	SLIDER,DISC SW(R)
23	45B50838Y01	LEVER,LOCK(RC)
24	41A60343Y01	SPRING,LEV LOCK-RC
26	41A60341Y01	SPRING,LEV DISC
27	04B41345P14	WASH,L. 2.1X4X0.25
28	75C60456Y03	DAMPER,DV-TM
29	75C60456Y02	DAMPER,DV-TM
30	14A51712Y01	INSULATOR,FPC
31	03S94385F07	SCR,NYLOK M2X2
32	45D51236Y02	SLIDER,LOCK(L)
33	01A51491Y11	ASSY,RIV LEV ASST
34	44-02001Z02	ASSY,SLIDER TRIGER 2
35	41A60348Y01	SPRING,SLD TRIGER
36	04B41345P15	WASH,1.2X3.5X0.35
37	49A51397Y01	ROLLER,DV-TM
38	43A51228Y01	BUSH,ARM GUIDE
39	45-02722Z01	LEVER,ROLLER(L)2
40	45-02723Z01	LEVER,ROLLER(R)2
41	41A60360Y01	SPRING,ARM GUIDE
42	45-01385Z01	ARM,DISC GUIDE
43	45B60959Y01	ARM,DISC GUIDE-L
44	45B60960Y01	ARM,DISC GUIDE-R
45	04S40075G09	WASH,2.6X4.7X0.25
46	14A61435Y01	INSULATOR,ARM DISC
47	47A51349Y01	SHAFT,ROLLER
48	44-01531Z01	GEAR,ROLLER-2
49	04B41345P02	WASH,1.7X3.5X0.25
50	07-01606Z01	ASSY,RIV BKT LD-F-3
51	47-01479Z01	SHAFT,LOAD
52	44A50827Y01	GEAR,LOAD(C)
53	44-01532Z01	GEAR,LOAD(F)-2
54	84-01207Z01	FPC,LOAD
55	07-01177Z01	ASSY,RIV BKT LOAD(R)
56	01A51487Y01	ASSY,RIV BKT LD-R2

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57	44A50825Y01	GEAR,LOAD(A)
58	44A50826Y01	GEAR,LOAD(B)
59	07B51226Y01	BKT,SHAFT LOAD
60	03S30688Y17	SCR,MCH M1.4X2
61	04B41345P11	WASH,1.2X2.5X0.25
62	45B51235Y01	SLIDER,ARM LIFT(R)
63	41A60336Y01	SPRING,CLAMP-R
64	41A60335Y01	SPRING,CLAMP-L
65	41A60337Y01	SPRING,CLAMP-RTL
66	-----	ASSY,RIV ARM CLAMP
67	43-01054Z01	STOPPER,CLAMP
68	43-01049Z01	TABLE,CLAMPER
69	-----	ASSY,RIV CHAS PICKUP
70	07-01053Z01	BKT,SPINDLE ADJUST
72	07A50823Y01	BKT,SHAFT PICKUP
73	47A51347Y01	SHAFT,PICKUP MAIN
74	47-01057Z01	SHAFT,PICKUP SUB
75	41B50836Y01	SPRING,NUT
76	15A51210Y01	COVER,MAIN
77	03S94385F09	SCR,NYLOK M2X3 P2
78	45C51234Y01	SLIDER,8CM
79	01B61577Y01	ASSY,RIV LEVER-8L
80	45A51231Y01	LEVER,TRIGER 8CM
81	45-02638Z01	LEVER,TRIGER SUB2
82	41A51394Y01	SPRING,LEV 8CM(L)
83	41A60346Y01	SPRING,LEV TRG-SUB
84	41A60347Y01	SPRING,SLD 8CM
86	07A60069Y01	BKT,SLIDER 8CM
87	15B61279Y01	SPACER,DAMPER
88	03S94385F98	SCR,NYLOK M2X2.5
89	14-01063Z01	INSULATOR,PWB R2

Electrical Parts List (DC/DC Converter Unit)

* Each parts on P.W.Board are described in order of the reference number.

=====P.BOX P.W.Board

C3801	08S45676W80	CAP,CER 223K-B1E -CP
C3802	08S45677W48	CAP,CER.331J-CH1H-CP
C3803	08S45676W85	CAP,CER 104K-B1C -CP
C3804	08S45676W93	CAP,CER 224K-B1A -CP
C3805	08S35350Y03	CAP,CER 224K-B1C -CP
C3806	08S45676W93	CAP,CER 224K-B1A -CP
C3807	08S45676W85	CAP,CER 104K-B1C -CP
C3808	08S45676W85	CAP,CER 104K-B1C -CP
C3809	08S45676W73	CAP,CER.103K-B1H -CP
C3810	08S45676W73	CAP,CER.103K-B1H -CP
C3811	08S45676W73	CAP,CER.103K-B1H -CP
C3812	08S45676W73	CAP,CER.103K-B1H -CP
C3813	08S45676W85	CAP,CER 104K-B1C -CP
C3814	08S45676W85	CAP,CER 104K-B1C -CP
C3815	08S45676W85	CAP,CER 104K-B1C -CP
C3816	08S45676W85	CAP,CER 104K-B1C -CP
C3817	08S45676W85	CAP,CER 104K-B1C -CP
C3818	08S45676W85	CAP,CER 104K-B1C -CP
C3819	08S45676W85	CAP,CER 104K-B1C -CP
C3820	08S65674Y05	CAP,CER 105KX5R1C-CP
C3821	08S65674Y05	CAP,CER 105KX5R1C-CP
C3822	08S65674Y05	CAP,CER 105KX5R1C-CP
D3801	48T25564Y01	DIO,MA113-TX -CP
D3802	48T25564Y01	DIO,MA113-TX -CP
E3801	23S75244Y19	CAP,ELY 101-1C -E6
E3802	23S65134W49	CAP,ELY 331-1E(1)-EA
E3803	23S65134W49	CAP,ELY 331-1E(1)-EA
E3804	23S75244Y22	CAP,ELY 471-1C -EA
E3805	23S75244Y22	CAP,ELY 471-1C -EA
E3806	23S75244Y15	CAP,ELY 102-1A -EA
E3807	23S75244Y15	CAP,ELY 102-1A -EA
E3808	23S75244Y15	CAP,ELY 102-1A -EA
E3809	23S75244Y15	CAP,ELY 102-1A -EA
E3810	23S75244Y15	CAP,ELY 102-1A -EA
IC3801	51T25449Y01	AN8018SA-E1 -SE2
IC3802	51T55333Y01	PQ1CY1032ZP -NE9
IC3803	51T55333Y01	PQ1CY1032ZP -NE9
IC3804	51T55333Y01	PQ1CY1032ZP -NE9
L3801	24T95202W25	IND,CDRH64B 102M -E6
L3802	24T95202W25	IND,CDRH64B 102M -E6
L3803	24T25565Y09	IND,SLF12565 68RM-EA
L3804	24T25565Y09	IND,SLF12565 68RM-EA
L3805	24T25565Y09	IND,SLF12565 68RM-EA
Q3801	48T62967F05	TR,DTC143XKA-T146-CP
Q3802	48T95196W01	TR,2SA1735-TE12L -E2
Q3803	48T62967F01	TR,DTC143EKA-T146-CP
Q3804	48T62967F01	TR,DTC143EKA-T146-CP
Q3805	48T95329W01	TR,2SC4540-TE12L -E2
Q3806	48T95196W01	TR,2SA1735-TE12L -E2
Q3807	48T75180Y01	TR,IMH1A-T110 -CP
Q3808	48T75180Y01	TR,IMH1A-T110 -CP

IVA-D310R/IVA-D310RB

R3801	06S55361Y41	RES,RK 101J 1/4 -CP
R3802	06S55365Y99	RES,RK 273J 1/10 -CP
R3803	06S55361Y62	RES,RK 751J 1/4 -CP
R3805	06S55361Y62	RES,RK 751J 1/4 -CP
R3806	06S45675W45	RES,RK 1R0J 1/10 -CP
R3807	06S55361Y62	RES,RK 751J 1/4 -CP
R3808	06S55365Y73	RES,RK 222J 1/10 -CP
R3809	06S55365Y73	RES,RK 222J 1/10 -CP
R3810	06S55365Y89	RES,RK 103J 1/10 -CP
R3811	06S15593Y79	RES,RK 183F 1/10 -CP
R3812	06S55366Y22	RES,RK 224J 1/10 -CP
R3813	06S15593Y55	RES,RK 182F 1/10 -CP
R3814	06S15593Y51	RES,RK 122F 1/10 -CP
R3815	06S15593Y67	RES,RK 562F 1/10 -CP
R3816	06S55365Y65	RES,RK 102J 1/10 -CP
R3817	06S15593Y73	RES,RK 103F 1/10 -CP
R3818	06S15593Y73	RES,RK 103F 1/10 -CP
R3819	06S15593Y83	RES,RK 273F 1/10 -CP
R3820	06S15593Y83	RES,RK 273F 1/10 -CP
R3821	06S55365Y65	RES,RK 102J 1/10 -CP
R3822	06S15593Y70	RES,RK 752F 1/10 -CP
R3823	06S15593Y79	RES,RK 183F 1/10 -CP
R3824	06S15593Y77	RES,RK 153F 1/10 -CP
R3825	06S15593Y76	RES,RK 133F 1/10 -CP
R3826	06S15593Y75	RES,RK 123F 1/10 -CP
R3827	06S15593Y41	RES,RK 471F 1/10 -CP
R3828	06S15593Y51	RES,RK 122F 1/10 -CP
R3829	06S55361Y69	RES,RK 152J 1/4 -CP
R3830	06S55361Y67	RES,RK 122J 1/4 -CP
R3833	06S55362Y06	RES,RK 473J 1/4 -CP
R3834	06S55362Y06	RES,RK 473J 1/4 -CP
R3838	06S55361Y73	RES,RK 222J 1/4 -CP
R3839	06S55361Y73	RES,RK 222J 1/4 -CP
R3840	06S15593Y77	RES,RK 153F 1/10 -CP
R3841	06S15593Y60	RES,RK 302F 1/10 -CP
R3842	06S55361Y73	RES,RK 222J 1/4 -CP
R3843	06S15593Y77	RES,RK 153F 1/10 -CP
R3844	06S15593Y61	RES,RK 332F 1/10 -CP
R3845	06S15593Y69	RES,RK 682F 1/10 -CP
R3846	06S15593Y61	RES,RK 332F 1/10 -CP
R3847	06S15593Y76	RES,RK 133F 1/10 -CP
R3849	06S15593Y91	RES,RK 563F 1/10 -CP
R3850	06S55361Y41	RES,RK 101J 1/4 -CP
R3851	06S55361Y41	RES,RK 101J 1/4 -CP
R3852	06S15593Y49	RES,RK 102F 1/10 -CP
R3853	06S15593Y57	RES,RK 222F 1/10 -CP
R3854	06S15593Y59	RES,RK 272F 1/10 -CP
SD3801	48T45286Y01	DIO,SHT RB050L-40-E1
SD3802	48T45286Y01	DIO,SHT RB050L-40-E1
SD3803	48T45286Y01	DIO,SHT RB050L-40-E1
TH3801	48T75484Y01	TMT,PRG21AR420MB1-CP
TH3802	48T75484Y01	TMT,PRG21AR420MB1-CP
ZD3801	48T62934F13	DIO,ZEN.RD4.3MB2 -CP

===== Miscellaneous

CB3801	09T13515W10	WTB,5569-10A1 -DB
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Electrical Parts List (Tuner Unit)

* Each parts on P.W.Board are described in order of the reference number.

=====MAIN P.W.Board

C1001	08S45676W80	CAP,CER 223K-B1E -CP
C1002	08S45676W80	CAP,CER 223K-B1E -CP
C1007	08S45677W60	CAP,CER 102J-CH1H-CP
C1008	08S45676W73	CAP,CER.103K-B1H -CP
C1009	08S45676W73	CAP,CER.103K-B1H -CP
C1010	08S45676W85	CAP,CER 104K-B1C -CP
C1011	08S45676W89	CAP,CER 473K-B1E -CP
C1012	08S45676W85	CAP,CER 104K-B1C -CP
C1013	08S45676W80	CAP,CER 223K-B1E -CP
C1014	08S45677W60	CAP,CER 102J-CH1H-CP
C1015	08S45676W80	CAP,CER 223K-B1E -CP
C1016	08S45676W80	CAP,CER 223K-B1E -CP
C1017	08S45676W65	CAP,CER.222K-B1H -CP
C1018	08S65674Y05	CAP,CER 105KX5R1C-CP
C1019	08S45677W48	CAP,CER.331J-CH1H-CP
C1020	08S45676W85	CAP,CER 104K-B1C -CP
C1022	08S45676W80	CAP,CER 223K-B1E -CP
C1023	08S45677W54	CAP,CER 561J-CH1H-CP
C1024	08S45676W65	CAP,CER.222K-B1H -CP
C1025	08S45677W22	CAP,CER.27RJ-CH1H-CP
C1026	08S45677W22	CAP,CER.27RJ-CH1H-CP
C1027	08S45677W36	CAP,CER.101J-CH1H-CP
C1028	08S45677W16	CAP,CER.15RJ-CH1H-CP
C1029	08S45677W16	CAP,CER.15RJ-CH1H-CP
C1030	08S45677W60	CAP,CER 102J-CH1H-CP
C1031	08S45677W36	CAP,CER.101J-CH1H-CP
C1032	08S45676W80	CAP,CER 223K-B1E -CP
C1033	08S45676W80	CAP,CER 223K-B1E -CP
C1034	08S45677W60	CAP,CER 102J-CH1H-CP
C1035	08S45676W80	CAP,CER 223K-B1E -CP
C1036	08S45676W80	CAP,CER 223K-B1E -CP
C1037	08S45676W85	CAP,CER 104K-B1C -CP
C1039	08S45676W73	CAP,CER.103K-B1H -CP
C1101	08S82122F32	CAP,CER.62RJ-CH1H-CP
C1102	08S82122F19	CAP,CER.18RJ-CH1H-CP
C1103	08S82122F27	CAP,CER.39RJ-CH1H-CP
C2001	08S45676W73	CAP,CER.103K-B1H -CP
C2002	08S45676W85	CAP,CER 104K-B1C -CP
C2003	08S45677W60	CAP,CER 102J-CH1H-CP
C2004	08S45676W85	CAP,CER 104K-B1C -CP
C2006	08S35349Y13	CAP,CER 684K-B1A -CP
C2007	08S65674Y05	CAP,CER 105KX5R1C-CP
C2008	08S65674Y05	CAP,CER 105KX5R1C-CP
C2009	08S65674Y05	CAP,CER 105KX5R1C-CP
C2010	08S65674Y05	CAP,CER 105KX5R1C-CP
C2011	08S45676W75	CAP,CER.153K-B1H -CP
C2012	08S35350Y04	CAP,CER 105K-B1C -CP
C2014	08S45677W12	CAP,CER.10RD-CH1H-CP
C2030	08S45676W85	CAP,CER 104K-B1C -CP
C2031	08S45676W85	CAP,CER 104K-B1C -CP
C2032	08S65674Y05	CAP,CER 105KX5R1C-CP

IVA-D310R/IVA-D310RB

C2033	08S45676W85	CAP,CER 104K-B1C -CP
C2034	08S45676W70	CAP,CER 562K-B1H -CP
C2035	08S45676W70	CAP,CER 562K-B1H -CP
C2036	08S45676W85	CAP,CER 104K-B1C -CP
C2037	08T81833F08	CAP,CER 475K-B1A -CP
C2038	08T81833F08	CAP,CER 475K-B1A -CP
C2039	08S45677W60	CAP,CER 102J-CH1H-CP
C2040	08S45677W12	CAP,CER.10RD-CH1H-CP
C2041	08S45677W14	CAP,CER.12RJ-CH1H-CP
C2042	08S45676W85	CAP,CER 104K-B1C -CP
C2043	08S45676W85	CAP,CER 104K-B1C -CP
C2044	08S65674Y05	CAP,CER 105KX5R1C-CP
C2051	08S45677W48	CAP,CER.331J-CH1H-CP
C2052	08S45677W44	CAP,CER.221J-CH1H-CP
C2054	08S45677W12	CAP,CER.10RD-CH1H-CP
C2055	08S45677W48	CAP,CER.331J-CH1H-CP
C2056	08S35374W11	CAP,CER 475K-B0J -CP
C2057	08S45677W48	CAP,CER.331J-CH1H-CP
C2058	08S45677W44	CAP,CER.221J-CH1H-CP
C2059	08S45677W48	CAP,CER.331J-CH1H-CP
C2060	08S45677W12	CAP,CER.10RD-CH1H-CP
C2061	08S35374W11	CAP,CER 475K-B0J -CP
C2064	08S45677W48	CAP,CER.331J-CH1H-CP
C2065	08S45677W44	CAP,CER.221J-CH1H-CP
C2066	08S45677W48	CAP,CER.331J-CH1H-CP
C2067	08S45677W12	CAP,CER.10RD-CH1H-CP
C2068	08S35374W11	CAP,CER 475K-B0J -CP
C2069	08S45677W48	CAP,CER.331J-CH1H-CP
C2070	08S45677W44	CAP,CER.221J-CH1H-CP
C2071	08S45677W12	CAP,CER.10RD-CH1H-CP
C2072	08S35374W11	CAP,CER 475K-B0J -CP
C2073	08S45677W48	CAP,CER.331J-CH1H-CP
C2074	08S45676W85	CAP,CER 104K-B1C -CP
C2075	08S45676W80	CAP,CER 223K-B1E -CP
C2101	08S45677W16	CAP,CER.15RJ-CH1H-CP
C2102	08S45677W16	CAP,CER.15RJ-CH1H-CP
C2103	08S45677W16	CAP,CER.15RJ-CH1H-CP
C2104	08S45677W16	CAP,CER.15RJ-CH1H-CP
C2105	08S45676W80	CAP,CER 223K-B1E -CP
C2106	08S45676W80	CAP,CER 223K-B1E -CP
C2107	08S65674Y05	CAP,CER 105KX5R1C-CP
C2108	08S65674Y05	CAP,CER 105KX5R1C-CP
C2201	08S45677W60	CAP,CER 102J-CH1H-CP
C2202	08S45677W60	CAP,CER 102J-CH1H-CP
C2203	08S45677W60	CAP,CER 102J-CH1H-CP
C2204	08S45677W60	CAP,CER 102J-CH1H-CP
C2205	08S45677W60	CAP,CER 102J-CH1H-CP
C2206	08S45677W60	CAP,CER 102J-CH1H-CP
C2207	08S65674Y05	CAP,CER 105KX5R1C-CP
C2208	08S65674Y05	CAP,CER 105KX5R1C-CP
C2209	08S65674Y05	CAP,CER 105KX5R1C-CP
C2210	08S65674Y05	CAP,CER 105KX5R1C-CP
C2211	08S45677W60	CAP,CER 102J-CH1H-CP
C2212	08S45677W60	CAP,CER 102J-CH1H-CP
C2215	08S45676W85	CAP,CER 104K-B1C -CP
C2216	08S45539Y04	CAP,CER 103KX7R2J-CP
C2217	08T81833F11	CAP,CER 225K-B1C -CP

IVA-D310R/IVA-D310RB

C2218	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2219	08T81833F11	CAP,CER 225K-B1C -CP
C2220	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2221	08T81833F11	CAP,CER 225K-B1C -CP
C2222	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2223	08T81833F11	CAP,CER 225K-B1C -CP
C2224	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2225	08T81833F11	CAP,CER 225K-B1C -CP
C2226	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2227	08T81833F11	CAP,CER 225K-B1C -CP
C2228	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2229	08T81833F11	CAP,CER 225K-B1C -CP
C2230	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2231	08T81833F11	CAP,CER 225K-B1C -CP
C2232	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2233	08S45677W21	CAP,CER 24RJ-CH1H-CP
C2234	08S45677W21	CAP,CER 24RJ-CH1H-CP
C2235	08S65674Y05	CAP,CER 105KX5R1C-CP
C2236	08S45676W80	CAP,CER 223K-B1E -CP
C2237	08S45676W80	CAP,CER 223K-B1E -CP
C2238	08S45676W80	CAP,CER 223K-B1E -CP
C2239	08S65674Y05	CAP,CER 105KX5R1C-CP
C2301	08S65674Y05	CAP,CER 105KX5R1C-CP
C2302	08S45676W80	CAP,CER 223K-B1E -CP
C2303	08S45677W16	CAP,CER.15RJ-CH1H-CP
C2304	08S45677W16	CAP,CER.15RJ-CH1H-CP
C2305	08S45677W16	CAP,CER.15RJ-CH1H-CP
C2306	08S45677W16	CAP,CER.15RJ-CH1H-CP
C2307	08S45676W80	CAP,CER 223K-B1E -CP
C2308	08S45676W80	CAP,CER 223K-B1E -CP
C2309	08S45676W80	CAP,CER 223K-B1E -CP
C2310	08S45676W80	CAP,CER 223K-B1E -CP
C2311	08S65674Y05	CAP,CER 105KX5R1C-CP
C2401	08S60102F40	CAP,CER 224K-B1E -CP
C2402	08S60102F40	CAP,CER 224K-B1E -CP
C2403	08S60102F40	CAP,CER 224K-B1E -CP
C2404	08S60102F40	CAP,CER 224K-B1E -CP
C2405	08S45676W85	CAP,CER 104K-B1C -CP
C2406	08S65674Y05	CAP,CER 105KX5R1C-CP
C2407	08S45676W89	CAP,CER 473K-B1E -CP
C2409	08S65128F90	CAP,CER 473K-B1H -CP
C2504	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2505	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2506	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2507	08S45676W80	CAP,CER 223K-B1E -CP
C2508	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2510	08S45677W18	CAP,CER.18RJ-CH1H-CP
C2520	08S65674Y05	CAP,CER 105KX5R1C-CP
C2521	08S65674Y05	CAP,CER 105KX5R1C-CP
C2522	08S65674Y05	CAP,CER 105KX5R1C-CP
C2523	08S65674Y05	CAP,CER 105KX5R1C-CP
C2527	08S45677W60	CAP,CER 102J-CH1H-CP
C2528	08S45677W60	CAP,CER 102J-CH1H-CP
C2530	08S45677W44	CAP,CER.221J-CH1H-CP
C2531	08S45677W60	CAP,CER 102J-CH1H-CP
C2532	08S45677W60	CAP,CER 102J-CH1H-CP
C2551	08S45677W44	CAP,CER.221J-CH1H-CP

IVA-D310R/IVA-D310RB

C2555	08S65674Y05	CAP,CER 105KX5R1C-CP
C2556	08S65674Y05	CAP,CER 105KX5R1C-CP
C2557	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2558	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2559	08S65674Y05	CAP,CER 105KX5R1C-CP
C2560	08S65674Y05	CAP,CER 105KX5R1C-CP
C2561	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2562	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2563	08S45677W44	CAP,CER.221J-CH1H-CP
C2564	08S45677W60	CAP,CER 102J-CH1H-CP
C2565	08S45677W60	CAP,CER 102J-CH1H-CP
C2566	08S45676W80	CAP,CER 223K-B1E -CP
C2569	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2570	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2571	08S65674Y05	CAP,CER 105KX5R1C-CP
C2572	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2573	08S65674Y05	CAP,CER 105KX5R1C-CP
C2574	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2575	08S65674Y05	CAP,CER 105KX5R1C-CP
C2576	08S65674Y05	CAP,CER 105KX5R1C-CP
C2577	08S45676W80	CAP,CER 223K-B1E -CP
C2578	08S45676W80	CAP,CER 223K-B1E -CP
C2601	08S45676W80	CAP,CER 223K-B1E -CP
C2602	08S45676W80	CAP,CER 223K-B1E -CP
C2651	08S65674Y05	CAP,CER 105KX5R1C-CP
C2652	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2653	08S65674Y05	CAP,CER 105KX5R1C-CP
C2654	08S45677W20	CAP,CER.22RJ-CH1H-CP
C2655	08S45677W60	CAP,CER 102J-CH1H-CP
C2656	08S82122F37	CAP,CER.101J-CH1H-CP
C2657	08S82122F37	CAP,CER.101J-CH1H-CP
C3001	08S45539Y04	CAP,CER 103KX7R2J-CP
C3002	08S45539Y04	CAP,CER 103KX7R2J-CP
C3005	08S45539Y04	CAP,CER 103KX7R2J-CP
C3006	08S45676W80	CAP,CER 223K-B1E -CP
C3007	08S45676W80	CAP,CER 223K-B1E -CP
C3009	08S45676W80	CAP,CER 223K-B1E -CP
C3010	08S45676W85	CAP,CER 104K-B1C -CP
C3011	08S45676W85	CAP,CER 104K-B1C -CP
C3012	08S45539Y02	CAP,CER 222KX7R2J-CP
C3100	08S65128F90	CAP,CER 473K-B1H -CP
C3101	08S45676W89	CAP,CER 473K-B1E -CP
C3102	08S45676W85	CAP,CER 104K-B1C -CP
C3106	08S45676W85	CAP,CER 104K-B1C -CP
C3107	08S45676W80	CAP,CER 223K-B1E -CP
C3118	08S45676W80	CAP,CER 223K-B1E -CP
C3119	08S45676W80	CAP,CER 223K-B1E -CP
C3120	08T65231Y01	CAP,CER 226K-BJ1A-CP
C3121	08S45676W80	CAP,CER 223K-B1E -CP
C3122	08S45676W80	CAP,CER 223K-B1E -CP
C3123	08S45676W80	CAP,CER 223K-B1E -CP
C3124	08S45677W60	CAP,CER 102J-CH1H-CP
C3201	08T55390W34	CAP,TF 274J-1H -R5
C3231	08S65128F69	CAP,CER.103K-B1H -CP
C3232	08S45676W80	CAP,CER 223K-B1E -CP
C3251	08S45676W80	CAP,CER 223K-B1E -CP
C4002	08S45676W80	CAP,CER 223K-B1E -CP

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C4003	08S45676W80	CAP,CER 223K-B1E -CP
C4004	08S65674Y05	CAP,CER 105KX5R1C-CP
C4005	08S65674Y05	CAP,CER 105KX5R1C-CP
C4006	08S65674Y05	CAP,CER 105KX5R1C-CP
C4007	08S65674Y05	CAP,CER 105KX5R1C-CP
C4008	08S65674Y05	CAP,CER 105KX5R1C-CP
C4050	08S45676W85	CAP,CER 104K-B1C -CP
C4101	08S45676W85	CAP,CER 104K-B1C -CP
C4102	08S45676W85	CAP,CER 104K-B1C -CP
C4103	08S45676W85	CAP,CER 104K-B1C -CP
C4104	08S45676W85	CAP,CER 104K-B1C -CP
C4105	08S45676W85	CAP,CER 104K-B1C -CP
C4221	08S45677W18	CAP,CER.18RJ-CH1H-CP
C4222	08T65231Y01	CAP,CER 226K-BJ1A-CP
C5001	08S45676W80	CAP,CER 223K-B1E -CP
C5002	08S45676W80	CAP,CER 223K-B1E -CP
C5003	08S45676W80	CAP,CER 223K-B1E -CP
C5004	08S45676W73	CAP,CER.103K-B1H -CP
C5005	08S45676W73	CAP,CER.103K-B1H -CP
C5008	08S65674Y05	CAP,CER 105KX5R1C-CP
C5010	08S45676W80	CAP,CER 223K-B1E -CP
C5011	08S45676W73	CAP,CER.103K-B1H -CP
C5012	08S45677W60	CAP,CER 102J-CH1H-CP
C5014	08S45676W73	CAP,CER.103K-B1H -CP
C5015	08S45676W73	CAP,CER.103K-B1H -CP
C5016	08S45676W73	CAP,CER.103K-B1H -CP
C5017	08S45676W73	CAP,CER.103K-B1H -CP
C5018	08S45676W73	CAP,CER.103K-B1H -CP
C6000	08S45676W80	CAP,CER 223K-B1E -CP
C6001	08S45677W22	CAP,CER.27RJ-CH1H-CP
C6002	08S45677W22	CAP,CER.27RJ-CH1H-CP
C6100	08S45676W80	CAP,CER 223K-B1E -CP
C6101	08S45676W80	CAP,CER 223K-B1E -CP
C6103	08S45676W80	CAP,CER 223K-B1E -CP
C6201	08S45677W12	CAP,CER.10RD-CH1H-CP
C6202	08S45676W80	CAP,CER 223K-B1E -CP
C6601	08S45676W80	CAP,CER 223K-B1E -CP
C6602	08S45676W80	CAP,CER 223K-B1E -CP
C6603	08S45676W80	CAP,CER 223K-B1E -CP
C6604	08S45676W80	CAP,CER 223K-B1E -CP
C6606	08S45676W80	CAP,CER 223K-B1E -CP
C6608	08S45677W44	CAP,CER.221J-CH1H-CP
C6609	08S45677W60	CAP,CER 102J-CH1H-CP
C6610	08S45677W60	CAP,CER 102J-CH1H-CP
C6616	08S45676W80	CAP,CER 223K-B1E -CP
C6617	08S45677W09	CAP,CER 7R0D-CH1H-CP
C6618	08S45677W09	CAP,CER 7R0D-CH1H-CP
C6619	08S45676W80	CAP,CER 223K-B1E -CP
C6620	08S45676W80	CAP,CER 223K-B1E -CP
C6621	08S45676W80	CAP,CER 223K-B1E -CP
C6622	08S45676W80	CAP,CER 223K-B1E -CP
C6640	08S45676W80	CAP,CER 223K-B1E -CP
CB3250	09T25436Y02	WTB,53253-0210 -DB
D1001	48T85357W01	DIO,1PS226 -CP
D2101	48T25651W01	DIO,CP MA152WA
D2102	48T25651W01	DIO,CP MA152WA
D2104	48T25651W01	DIO,CP MA152WA

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D2401	48T25593Y01	DIO,S1G-6904	-E1
D2402	48T25593Y01	DIO,S1G-6904	-E1
D2403	48T25593Y01	DIO,S1G-6904	-E1
D2404	48T25593Y01	DIO,S1G-6904	-E1
D2405	48T25593Y01	DIO,S1G-6904	-E1
D2406	48T25593Y01	DIO,S1G-6904	-E1
D2407	48T25593Y01	DIO,S1G-6904	-E1
D2408	48T25593Y01	DIO,S1G-6904	-E1
D2501	48T25651W01	DIO,CP MA152WA	
D2502	48T25651W01	DIO,CP MA152WA	
D2681	48T25665Y01	DIO,1SS355-TE17	-CP
D2682	48T25665Y01	DIO,1SS355-TE17	-CP
D3000	48T25593Y01	DIO,S1G-6904	-E1
D3001	48T25651W02	DIO,MA152WK-TX	-CP
D3002	48T25651W02	DIO,MA152WK-TX	-CP
D3004	48T25665Y01	DIO,1SS355-TE17	-CP
D3101	48T25593Y01	DIO,S1G-6904	-E1
D3202	48T85357W01	DIO,1PS226	-CP
D3203	48T25593Y01	DIO,S1G-6904	-E1
D3204	48T25593Y01	DIO,S1G-6904	-E1
D5001	48T25651W02	DIO,MA152WK-TX	-CP
D5005	48T45701Y01	DIO,MA2S728-TX	-CP
D5006	48T45701Y01	DIO,MA2S728-TX	-CP
D6000	48T25665Y01	DIO,1SS355-TE17	-CP
D6201	48T64134F01	DIO,CP.DA204K	-96
D6202	48T64134F01	DIO,CP.DA204K	-96
D6601	48T25665Y01	DIO,1SS355-TE17	-CP
D6640	48T25651W02	DIO,MA152WK-TX	-CP
E1001	23S45639Y08	CAP,ELY 22R-1C	-R2
E1002	23S45639Y08	CAP,ELY 22R-1C	-R2
E1003	23S45639Y06	CAP,ELY 221-1A	-R2
E1004	23S45639Y07	CAP,ELY 10R-1C	-R2
E1005	23S45639Y23	CAP,ELY 2R2-1H	-R2
E1006	23S45639Y06	CAP,ELY 221-1A	-R2
E2000	23S55039Y06	CAP,ELY 101-1C	-R2
E2001	23S55039Y02	CAP,ELY 10R-1C	-R2
E2002	23S55039Y03	CAP,ELY 22R-1C	-R2
E2030	23S55039Y01	CAP,ELY 221-0J	-R2
E2031	23S55039Y03	CAP,ELY 22R-1C	-R2
E2032	23S55039Y03	CAP,ELY 22R-1C	-R2
E2033	23S55039Y05	CAP,ELY 47R-1C	-R2
E2034	23S55039Y05	CAP,ELY 47R-1C	-R2
E2035	23S55039Y05	CAP,ELY 47R-1C	-R2
E2036	23S55039Y05	CAP,ELY 47R-1C	-R2
E2037	23S55039Y05	CAP,ELY 47R-1C	-R2
E2038	23S55039Y05	CAP,ELY 47R-1C	-R2
E2050	23S65134W52	CAP,ELY 3R3-1V(3)-E2	
E2051	23S65134W52	CAP,ELY 3R3-1V(3)-E2	
E2052	23S65134W52	CAP,ELY 3R3-1V(3)-E2	
E2053	23S65134W52	CAP,ELY 3R3-1V(3)-E2	
E2054	23S55039Y02	CAP,ELY 10R-1C	-R2
E2101	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2102	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2103	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2104	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2108	23S55039Y03	CAP,ELY 22R-1C	-R2
E2109	23S55039Y03	CAP,ELY 22R-1C	-R2

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E2111	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2112	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2113	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2114	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2115	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2116	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2201	23S55039Y03	CAP,ELY 22R-1C	-R2
E2202	23S55039Y03	CAP,ELY 22R-1C	-R2
E2203	23S55039Y03	CAP,ELY 22R-1C	-R2
E2301	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2302	23S55039Y03	CAP,ELY 22R-1C	-R2
E2303	23S55039Y02	CAP,ELY 10R-1C	-R2
E2304	23S55039Y02	CAP,ELY 10R-1C	-R2
E2401	23S65134W71	CAP,ELY 2R2-1H(4)-E2	
E2402	23S65134W71	CAP,ELY 2R2-1H(4)-E2	
E2403	23S65134W71	CAP,ELY 2R2-1H(4)-E2	
E2404	23S65134W71	CAP,ELY 2R2-1H(4)-E2	
E2405	23T85403W21	CAP,HA 1R0-1H-B	-E2
E2406	23S75244Y16	CAP,ELY 10R-1C	-E2
E2407	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2408	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2409	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2410	23S55039Y15	CAP,ELY 3R3-1H	-R2
E2411	23S55039Y03	CAP,ELY 22R-1C	-R2
E2501	23S55039Y02	CAP,ELY 10R-1C	-R2
E2502	23S55039Y02	CAP,ELY 10R-1C	-R2
E2503	23S55039Y02	CAP,ELY 10R-1C	-R2
E2504	23S55039Y02	CAP,ELY 10R-1C	-R2
E2505	23S55039Y03	CAP,ELY 22R-1C	-R2
E2550	23S55039Y03	CAP,ELY 22R-1C	-R2
E2551	23S55039Y03	CAP,ELY 22R-1C	-R2
E2600	23S55039Y03	CAP,ELY 22R-1C	-R2
E2601	23S55039Y03	CAP,ELY 22R-1C	-R2
E2602	23S55039Y07	CAP,ELY 4R7-1V	-R2
E2604	23S55039Y03	CAP,ELY 22R-1C	-R2
E2651	23S55039Y03	CAP,ELY 22R-1C	-R2
E2652	23S55039Y03	CAP,ELY 22R-1C	-R2
E2681	23S55039Y05	CAP,ELY 47R-1C	-R2
E2701	23S55039Y03	CAP,ELY 22R-1C	-R2
E3001	23S55039Y03	CAP,ELY 22R-1C	-R2
E3100	23T75533Y01	CAP,RJ4 472-1C	+
E3101	23S75244Y22	CAP,ELY 471-1C	-EA
E3102	23S75244Y16	CAP,ELY 10R-1C	-E2
E3103	23S75244Y18	CAP,ELY 47R-1C	-E3
E3104	23S75244Y02	CAP,ELY 47R-0J	-E2
E3105	23S75244Y19	CAP,ELY 101-1C	-E6
E3106	23S75244Y11	CAP,ELY 221-1A	-E6
E3107	23S75244Y18	CAP,ELY 47R-1C	-E3
E3108	23S75244Y02	CAP,ELY 47R-0J	-E2
E3202	23S55039Y02	CAP,ELY 10R-1C	-R2
E3230	23S75244Y19	CAP,ELY 101-1C	-E6
E3250	23S75244Y18	CAP,ELY 47R-1C	-E3
E4001	23S55039Y02	CAP,ELY 10R-1C	-R2
E4002	23S55039Y02	CAP,ELY 10R-1C	-R2
E4003	23S55039Y02	CAP,ELY 10R-1C	-R2
E4004	23S55039Y03	CAP,ELY 22R-1C	-R2
E4005	23S55039Y14	CAP,ELY 2R2-1H	-R2

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E4006	23S55039Y14	CAP,ELY 2R2-1H	-R2
E4007	23S82372F08	CAP,ELY.10R-1C-BP-R2	
E4008	23S55039Y02	CAP,ELY 10R-1C	-R2
E4010	23S55039Y07	CAP,ELY 4R7-1V	-R2
E4050	23S55039Y03	CAP,ELY 22R-1C	-R2
E4051	23S55039Y02	CAP,ELY 10R-1C	-R2
E4052	23S55039Y06	CAP,ELY 101-1C	-R2
E4055	23S55039Y02	CAP,ELY 10R-1C	-R2
E4101	23S55039Y02	CAP,ELY 10R-1C	-R2
E4102	23S55039Y02	CAP,ELY 10R-1C	-R2
E4103	23S55039Y03	CAP,ELY 22R-1C	-R2
E4105	23S95415W02	CAP,ELY 471-1A	-R2
E4106	23S95415W02	CAP,ELY 471-1A	-R2
E4152	23S95415W02	CAP,ELY 471-1A	-R2
E4220	23S82372F08	CAP,ELY.10R-1C-BP-R2	
E4221	23T45174W04	CAP,SME.101-1A-BP-R5	
E5001	23S55039Y06	CAP,ELY 101-1C	-R2
E5002	23S55039Y02	CAP,ELY 10R-1C	-R2
E6000	23S55039Y03	CAP,ELY 22R-1C	-R2
E6200	23S55039Y03	CAP,ELY 22R-1C	-R2
E6201	23S55039Y02	CAP,ELY 10R-1C	-R2
E6202	23S82372F08	CAP,ELY.10R-1C-BP-R2	
E6203	23S82372F08	CAP,ELY.10R-1C-BP-R2	
E6204	23S55039Y13	CAP,ELY 1R0-1H	-R2
F2200	65T75477Y13	FUSE,CCP2E 4.0A	-CP
IC1001	51T93333F01	NJM2904M-TE3	-SE2
IC1002	51T15731W10	TC7S66F-TE85L	-CP
IC1003	51T15132Y02	SAA6588T	-SE9
IC1004	51-04223Z01	IC,D784216AGC-239-QT	
IC1005	51T75539Y01	M24C04-WMN6T/W	-SE2
IC2000	51T65381Y01	TDA7412	-QT
IC2001	51T15605Y01	NJM2130F-TE1	-CP
IC2030	51T45654Y02	TC94A04AFD-015	-QT
IC2050	51T93340F02	NJM2060V-TE2	-SE2
IC2100	51T25576W07	NJM4580V-TE2	-SE2
IC2101	51T25576W07	NJM4580V-TE2	-SE2
IC2203	51T25576W07	NJM4580V-TE2	-SE2
IC2204	51T93340F02	NJM2060V-TE2	-SE2
IC2300	51T25612Y01	TC4066BFT-EL	-SE5
IC2301	51T93340F02	NJM2060V-TE2	-SE2
IC2302	51T25612Y01	TC4066BFT-EL	-SE5
IC2303	51T25612Y01	TC4066BFT-EL	-SE5
IC2400	51T55148Y01	TA8273H	-ZS
IC2500	51T25576W07	NJM4580V-TE2	-SE2
IC2550	51T93340F02	NJM2060V-TE2	-SE2
IC2600	51T25576W07	NJM4580V-TE2	-SE2
IC2650	51T15647Y01	NJM4558V-TE2	-SE2
IC3100	51T45336Y01	L5952	-ZS
IC3101	51T65016Y24	S-80935CNMC-T2	-CP
IC3230	51T25259Y03	BA00ASFP-E2	-NE5
IC4000	51T35644Y01	CXA2069Q	-QT
IC4102	51T15549Y01	NJM2286V-TE1	-SE2
IC5001	51-04211Z01	IC,D703068YGJ-129-QT	
IC5002	51T65770Y01	BR24L08F-W-E2	-SE2
IC6000	51T55070W05	MB88385CPF-ER	-SE9
IC6001	51T95552W01	HA12187FP-EL	-SE2
IC6002	51T95552W01	HA12187FP-EL	-SE2

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IC6100	51T15190Y01	TC74VHC04FT-EL -SE5
IC6200	51T15185Y01	TC7SH08FU-TE85L -CP
IC6201	51T65212Y01	BA8275F-E2 -SE2
IC6202	51T55166Y01	NJM2100V-TE2 -SE2
IC6204	51T15185Y01	TC7SH08FU-TE85L -CP
IC6601	51T15614Y01	TC74HC4051AFT-EL-SE5
IC6602	51T15614Y01	TC74HC4051AFT-EL-SE5
IC6603	51T15191Y01	TC74VHC08FT-EL -SE5
IC6604	51T15614Y01	TC74HC4051AFT-EL-SE5
IC6605	51T15192Y01	TC74VHC14FT-EL -SE5
IC6606	51T25532Y01	TC74VHC00FT -SE5
IC6607	51T65212Y01	BA8275F-E2 -SE2
L1001	24T25164Y21	IND,FSLM2520 4R7J-CP
L1002	24T16403W29	COI,IND.15R-M -CP
L1003	24T25164Y21	IND,FSLM2520 4R7J-CP
L1004	24T25164Y21	IND,FSLM2520 4R7J-CP
L1005	24T45464Y02	FBI,BLM18HG471SN1-CP
L1006	24T45464Y02	FBI,BLM18HG471SN1-CP
L1101	24T55488Y20	IND,LLQ1608 R027J-CP
L1102	24T55488Y24	IND,LLQ1608 R039J-CP
L3000	24T75055W08	CHOKES,SA10HA-452JA +
L4051	24T25164Y25	IND,FSLM2520 10RJ-CP
Q1002	48T62967F03	TR,DTC124EKA-T146-CP
Q1003	48T52437F05	TR,2SB709A-S /TX-CP
Q1004	48T62966F23	TR,DTA123YKA-T146-CP
Q1005	48T62966F03	TR,DTA124EKA-T146-CP
Q1007	48T75205Y02	TR,FMC3A-T148 -CP
Q1008	48T62967F03	TR,DTC124EKA-T146-CP
Q2002	48T62967F09	TR,DTC114TKA-T146-CP
Q2003	48T75205Y01	TR,FMC2A-T148 -CP
Q2004	48T62967F03	TR,DTC124EKA-T146-CP
Q2101	48T25317Y01	TR,XN0F256-TX -CP
Q2102	48T25317Y01	TR,XN0F256-TX -CP
Q2103	48T25317Y01	TR,XN0F256-TX -CP
Q2300	48T55459Y01	TR,FMG1A-T148 -CP
Q2400	48T94606F03	TR,DTC124EUA-T106-CP
Q2401	48T62967F03	TR,DTC124EKA-T146-CP
Q2501	48T25317Y01	TR,XN0F256-TX -CP
Q2502	48T25317Y01	TR,XN0F256-TX -CP
Q2503	48T25317Y01	TR,XN0F256-TX -CP
Q2680	48T75205Y01	TR,FMC2A-T148 -CP
Q2681	48T75205Y01	TR,FMC2A-T148 -CP
Q2682	48T75205Y01	TR,FMC2A-T148 -CP
Q2683	48T94606F03	TR,DTC124EUA-T106-CP
Q2684	48T94606F03	TR,DTC124EUA-T106-CP
Q2685	48T94606F03	TR,DTC124EUA-T106-CP
Q2686	48T94606F03	TR,DTC124EUA-T106-CP
Q3001	48T62966F01	TR,DTA143EKA-T146-CP
Q3003	48T62966F01	TR,DTA143EKA-T146-CP
Q3004	48T62967F03	TR,DTC124EKA-T146-CP
Q3015	48T75205Y01	TR,FMC2A-T148 -CP
Q3016	48T75205Y02	TR,FMC3A-T148 -CP
Q3101	48T75205Y01	TR,FMC2A-T148 -CP
Q3207	48T94606F03	TR,DTC124EUA-T106-CP
Q3208	48T94606F67	TR,DTA123YUA-T106-CP
Q3209	48T84366F04	TR,2SB1243-QR-TV2-RD
Q3210	48T94606F08	TR,DTC143EUA-T106-CP

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Q3250	48T73023F01	TR ,2SD874A -E2
Q4001	48T63417F01	TR ,CP.2SC2412K -96
Q4002	48T63417F01	TR ,CP.2SC2412K -96
Q4003	48T63417F01	TR ,CP.2SC2412K -96
Q4050	48T15656Y01	TR,2SC4617-TL -CP
Q4051	48T15657Y01	TR,2SA1774-TL -CP
Q4052	48T15656Y01	TR,2SC4617-TL -CP
Q4101	48T63420F01	TR,2SA1037AK-146 -CP
Q4102	48T63420F01	TR,2SA1037AK-146 -CP
Q4201	48T63417F01	TR ,CP.2SC2412K -96
Q4220	48T15656Y01	TR,2SC4617-TL -CP
Q4221	48T15657Y01	TR,2SA1774-TL -CP
Q4222	48T15656Y01	TR,2SC4617-TL -CP
Q5001	48T94606F03	TR,DTC124EUA-T106-CP
Q5002	48T63419F01	TR ,CP.2SA1036K -96
Q6000	48T62966F02	TR,DTA114EKA-T146-CP
Q6001	48T75205Y02	TR,FMC3A-T148 -CP
Q6201	48T65619Y01	FET,HN1K06FU-85L -CP
Q6601	48T62967F01	TR,DTC143EKA-T146-CP
Q6602	48T62967F01	TR,DTC143EKA-T146-CP
Q6603	48T65619Y01	FET,HN1K06FU-85L -CP
Q6640	48T62966F01	TR,DTA143EKA-T146-CP
R1001	06S70072F05	RES,CP .10R-J-1/4-CP
R1003	06S55365Y41	RES,RK 101J 1/10 -CP
R1004	06S55365Y41	RES,RK 101J 1/10 -CP
R1005	06S55366Y30	RES,RK 474J 1/10 -CP
R1006	06S55366Y39	RES,RK JUMPER1/10-CP
R1007	06S55366Y14	RES,RK 104J 1/10 -CP
R1008	06S55365Y77	RES,RK 332J 1/10 -CP
R1009	06S55365Y65	RES,RK 102J 1/10 -CP
R1010	06S55361Y65	RES,RK 102J 1/4 -CP
R1011	06S55365Y65	RES,RK 102J 1/10 -CP
R1012	06S55365Y65	RES,RK 102J 1/10 -CP
R1013	06S55365Y65	RES,RK 102J 1/10 -CP
R1014	06S55365Y65	RES,RK 102J 1/10 -CP
R1015	06S55365Y98	RES,RK 243J 1/10 -CP
R1016	06S55366Y02	RES,RK 333J 1/10 -CP
R1017	06S55366Y39	RES,RK JUMPER1/10-CP
R1018	06S55365Y65	RES,RK 102J 1/10 -CP
R1019	06S55365Y81	RES,RK 472J 1/10 -CP
R1020	06S55365Y81	RES,RK 472J 1/10 -CP
R1021	06S55365Y51	RES,RK 271J 1/10 -CP
R1022	06S55365Y51	RES,RK 271J 1/10 -CP
R1023	06S55365Y65	RES,RK 102J 1/10 -CP
R1024	06S55365Y65	RES,RK 102J 1/10 -CP
R1025	06S55365Y81	RES,RK 472J 1/10 -CP
R1026	06S55366Y30	RES,RK 474J 1/10 -CP
R1027	06S55365Y65	RES,RK 102J 1/10 -CP
R1030	06S55365Y65	RES,RK 102J 1/10 -CP
R1047	06S55366Y06	RES,RK 473J 1/10 -CP
R1048	06S55365Y65	RES,RK 102J 1/10 -CP
R1049	06S55366Y06	RES,RK 473J 1/10 -CP
R1050	06S55365Y97	RES,RK 223J 1/10 -CP
R1051	06S55365Y97	RES,RK 223J 1/10 -CP
R1052	06S55365Y97	RES,RK 223J 1/10 -CP
R1054	06S55366Y39	RES,RK JUMPER1/10-CP
R1055	06S55366Y06	RES,RK 473J 1/10 -CP

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R1056	06S55366Y06	RES,RK 473J 1/10 -CP
R1057	06S55365Y81	RES,RK 472J 1/10 -CP
R1058	06S55365Y81	RES,RK 472J 1/10 -CP
R1059	06S55365Y41	RES,RK 101J 1/10 -CP
R1060	06S55365Y41	RES,RK 101J 1/10 -CP
R1063	06S55365Y65	RES,RK 102J 1/10 -CP
R1064	06S55361Y49	RES,RK 221J 1/4 -CP
R1065	06S55365Y65	RES,RK 102J 1/10 -CP
R2000	06S55365Y81	RES,RK 472J 1/10 -CP
R2002	06S55366Y14	RES,RK 104J 1/10 -CP
R2003	06S55365Y73	RES,RK 222J 1/10 -CP
R2005	06S55365Y41	RES,RK 101J 1/10 -CP
R2006	06S55365Y41	RES,RK 101J 1/10 -CP
R2007	06S55365Y65	RES,RK 102J 1/10 -CP
R2008	06S55365Y65	RES,RK 102J 1/10 -CP
R2010	06S55365Y73	RES,RK 222J 1/10 -CP
R2011	06S55365Y89	RES,RK 103J 1/10 -CP
R2012	06S55365Y85	RES,RK 682J 1/10 -CP
R2013	06S55365Y85	RES,RK 682J 1/10 -CP
R2014	06S55366Y02	RES,RK 333J 1/10 -CP
R2031	06S55365Y57	RES,RK 471J 1/10 -CP
R2032	06S55365Y57	RES,RK 471J 1/10 -CP
R2033	06S55365Y65	RES,RK 102J 1/10 -CP
R2034	06S55365Y43	RES,RK 121J 1/10 -CP
R2035	06S55365Y43	RES,RK 121J 1/10 -CP
R2037	06S55366Y38	RES,RK 105J 1/10 -CP
R2038	06S55365Y57	RES,RK 471J 1/10 -CP
R2043	06S55362Y39	RES,RK JUMPER 1/4-CP
R2051	06S55366Y11	RES,RK 753J 1/10 -CP
R2052	06S55365Y89	RES,RK 103J 1/10 -CP
R2053	06S55365Y87	RES,RK 822J 1/10 -CP
R2054	06S55365Y95	RES,RK 183J 1/10 -CP
R2055	06S55366Y02	RES,RK 333J 1/10 -CP
R2056	06S55365Y93	RES,RK 153J 1/10 -CP
R2058	06S55366Y11	RES,RK 753J 1/10 -CP
R2059	06S55365Y89	RES,RK 103J 1/10 -CP
R2060	06S55365Y87	RES,RK 822J 1/10 -CP
R2061	06S55365Y95	RES,RK 183J 1/10 -CP
R2062	06S55366Y02	RES,RK 333J 1/10 -CP
R2063	06S55365Y93	RES,RK 153J 1/10 -CP
R2064	06S55366Y11	RES,RK 753J 1/10 -CP
R2065	06S55365Y89	RES,RK 103J 1/10 -CP
R2066	06S55365Y87	RES,RK 822J 1/10 -CP
R2067	06S55365Y95	RES,RK 183J 1/10 -CP
R2068	06S55366Y02	RES,RK 333J 1/10 -CP
R2069	06S55365Y93	RES,RK 153J 1/10 -CP
R2070	06S55366Y11	RES,RK 753J 1/10 -CP
R2071	06S55365Y89	RES,RK 103J 1/10 -CP
R2072	06S55365Y87	RES,RK 822J 1/10 -CP
R2073	06S55365Y95	RES,RK 183J 1/10 -CP
R2074	06S55366Y02	RES,RK 333J 1/10 -CP
R2075	06S55365Y93	RES,RK 153J 1/10 -CP
R2101	06S55365Y98	RES,RK 243J 1/10 -CP
R2102	06S55366Y11	RES,RK 753J 1/10 -CP
R2103	06S55365Y98	RES,RK 243J 1/10 -CP
R2104	06S55366Y11	RES,RK 753J 1/10 -CP
R2105	06S55365Y98	RES,RK 243J 1/10 -CP

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R2106	06S55365Y98	RES,RK 243J 1/10 -CP
R2107	06S55361Y49	RES,RK 221J 1/4 -CP
R2108	06S55366Y08	RES,RK 563J 1/10 -CP
R2109	06S55361Y41	RES,RK 101J 1/4 -CP
R2110	06S55365Y83	RES,RK 562J 1/10 -CP
R2111	06S55366Y08	RES,RK 563J 1/10 -CP
R2112	06S55361Y49	RES,RK 221J 1/4 -CP
R2113	06S55361Y41	RES,RK 101J 1/4 -CP
R2114	06S55365Y98	RES,RK 243J 1/10 -CP
R2115	06S55365Y98	RES,RK 243J 1/10 -CP
R2116	06S55365Y98	RES,RK 243J 1/10 -CP
R2117	06S55365Y98	RES,RK 243J 1/10 -CP
R2118	06S55365Y83	RES,RK 562J 1/10 -CP
R2119	06S55361Y49	RES,RK 221J 1/4 -CP
R2120	06S55361Y41	RES,RK 101J 1/4 -CP
R2121	06S55366Y08	RES,RK 563J 1/10 -CP
R2122	06S55365Y83	RES,RK 562J 1/10 -CP
R2123	06S55366Y08	RES,RK 563J 1/10 -CP
R2124	06S55361Y49	RES,RK 221J 1/4 -CP
R2125	06S55361Y41	RES,RK 101J 1/4 -CP
R2129	06S55361Y49	RES,RK 221J 1/4 -CP
R2130	06S55361Y41	RES,RK 101J 1/4 -CP
R2134	06S55365Y83	RES,RK 562J 1/10 -CP
R2135	06S55366Y08	RES,RK 563J 1/10 -CP
R2136	06S55366Y08	RES,RK 563J 1/10 -CP
R2137	06S55361Y49	RES,RK 221J 1/4 -CP
R2138	06S55361Y41	RES,RK 101J 1/4 -CP
R2140	06S55365Y83	RES,RK 562J 1/10 -CP
R2141	06S55365Y83	RES,RK 562J 1/10 -CP
R2201	06S55365Y89	RES,RK 103J 1/10 -CP
R2202	06S55365Y89	RES,RK 103J 1/10 -CP
R2203	06S15593Y81	RES,RK 223F 1/10 -CP
R2204	06S15593Y81	RES,RK 223F 1/10 -CP
R2205	06S15593Y81	RES,RK 223F 1/10 -CP
R2206	06S15593Y81	RES,RK 223F 1/10 -CP
R2207	06S55365Y85	RES,RK 682J 1/10 -CP
R2208	06S15593Y81	RES,RK 223F 1/10 -CP
R2209	06S15593Y81	RES,RK 223F 1/10 -CP
R2210	06S15593Y81	RES,RK 223F 1/10 -CP
R2211	06S15593Y81	RES,RK 223F 1/10 -CP
R2212	06S15593Y81	RES,RK 223F 1/10 -CP
R2213	06S15593Y81	RES,RK 223F 1/10 -CP
R2214	06S15593Y81	RES,RK 223F 1/10 -CP
R2215	06S15593Y81	RES,RK 223F 1/10 -CP
R2216	06S15593Y81	RES,RK 223F 1/10 -CP
R2217	06S15593Y81	RES,RK 223F 1/10 -CP
R2218	06S15593Y81	RES,RK 223F 1/10 -CP
R2219	06S15593Y81	RES,RK 223F 1/10 -CP
R2220	06S15593Y85	RES,RK 333F 1/10 -CP
R2221	06S55366Y14	RES,RK 104J 1/10 -CP
R2222	06S15593Y85	RES,RK 333F 1/10 -CP
R2223	06S55366Y14	RES,RK 104J 1/10 -CP
R2224	06S15593Y85	RES,RK 333F 1/10 -CP
R2225	06S15593Y85	RES,RK 333F 1/10 -CP
R2301	06S55366Y06	RES,RK 473J 1/10 -CP
R2302	06S55366Y06	RES,RK 473J 1/10 -CP
R2303	06S55365Y99	RES,RK 273J 1/10 -CP

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R2304	06S55366Y12	RES,RK 823J 1/10 -CP
R2305	06S55365Y99	RES,RK 273J 1/10 -CP
R2306	06S55366Y12	RES,RK 823J 1/10 -CP
R2307	06S55365Y99	RES,RK 273J 1/10 -CP
R2308	06S55365Y99	RES,RK 273J 1/10 -CP
R2309	06S55365Y85	RES,RK 682J 1/10 -CP
R2311	06S55365Y99	RES,RK 273J 1/10 -CP
R2313	06S55365Y99	RES,RK 273J 1/10 -CP
R2315	06S55365Y99	RES,RK 273J 1/10 -CP
R2316	06S55365Y99	RES,RK 273J 1/10 -CP
R2317	06S55365Y41	RES,RK 101J 1/10 -CP
R2318	06S55365Y41	RES,RK 101J 1/10 -CP
R2319	06S55365Y41	RES,RK 101J 1/10 -CP
R2320	06S55365Y41	RES,RK 101J 1/10 -CP
R2401	06S55365Y89	RES,RK 103J 1/10 -CP
R2402	06S55365Y41	RES,RK 101J 1/10 -CP
R2403	06S55365Y89	RES,RK 103J 1/10 -CP
R2406	06S55365Y85	RES,RK 682J 1/10 -CP
R2501	06S15593Y83	RES,RK 273F 1/10 -CP
R2502	06S15593Y83	RES,RK 273F 1/10 -CP
R2503	06S15593Y83	RES,RK 273F 1/10 -CP
R2506	06S15593Y83	RES,RK 273F 1/10 -CP
R2507	06S15593Y83	RES,RK 273F 1/10 -CP
R2508	06S15593Y83	RES,RK 273F 1/10 -CP
R2509	06S15593Y83	RES,RK 273F 1/10 -CP
R2510	06S15593Y83	RES,RK 273F 1/10 -CP
R2520	06S55365Y53	RES,RK 331J 1/10 -CP
R2521	06S55366Y05	RES,RK 433J 1/10 -CP
R2522	06S55361Y41	RES,RK 101J 1/4 -CP
R2523	06S55366Y05	RES,RK 433J 1/10 -CP
R2524	06S55365Y53	RES,RK 331J 1/10 -CP
R2525	06S55361Y41	RES,RK 101J 1/4 -CP
R2526	06S55366Y05	RES,RK 433J 1/10 -CP
R2527	06S55365Y49	RES,RK 221J 1/10 -CP
R2528	06S55365Y42	RES,RK 111J 1/10 -CP
R2529	06S55366Y05	RES,RK 433J 1/10 -CP
R2530	06S55365Y49	RES,RK 221J 1/10 -CP
R2531	06S55365Y42	RES,RK 111J 1/10 -CP
R2532	06S55361Y41	RES,RK 101J 1/4 -CP
R2533	06S55361Y41	RES,RK 101J 1/4 -CP
R2551	06S55361Y30	RES,RK 36RJ 1/4 -CP
R2552	06S55361Y31	RES,RK 39RJ 1/4 -CP
R2553	06S15593Y81	RES,RK 223F 1/10 -CP
R2554	06S15593Y81	RES,RK 223F 1/10 -CP
R2555	06S15593Y81	RES,RK 223F 1/10 -CP
R2556	06S15593Y81	RES,RK 223F 1/10 -CP
R2558	06S15593Y81	RES,RK 223F 1/10 -CP
R2559	06S15593Y81	RES,RK 223F 1/10 -CP
R2560	06S15593Y81	RES,RK 223F 1/10 -CP
R2561	06S15593Y81	RES,RK 223F 1/10 -CP
R2562	06S55365Y85	RES,RK 682J 1/10 -CP
R2563	06S55365Y85	RES,RK 682J 1/10 -CP
R2564	06S55361Y30	RES,RK 36RJ 1/4 -CP
R2565	06S55361Y31	RES,RK 39RJ 1/4 -CP
R2566	06S15593Y81	RES,RK 223F 1/10 -CP
R2567	06S15593Y81	RES,RK 223F 1/10 -CP
R2568	06S15593Y81	RES,RK 223F 1/10 -CP

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R2569	06S15593Y81	RES,RK 223F 1/10 -CP
R2570	06S15593Y81	RES,RK 223F 1/10 -CP
R2571	06S15593Y81	RES,RK 223F 1/10 -CP
R2572	06S15593Y81	RES,RK 223F 1/10 -CP
R2573	06S15593Y81	RES,RK 223F 1/10 -CP
R2574	06S55365Y85	RES,RK 682J 1/10 -CP
R2575	06S55365Y85	RES,RK 682J 1/10 -CP
R2601	06S55365Y66	RES,RK 112J 1/10 -CP
R2602	06S55365Y66	RES,RK 112J 1/10 -CP
R2603	06S55365Y66	RES,RK 112J 1/10 -CP
R2604	06S55365Y66	RES,RK 112J 1/10 -CP
R2651	06S15593Y81	RES,RK 223F 1/10 -CP
R2652	06S15593Y81	RES,RK 223F 1/10 -CP
R2653	06S15593Y81	RES,RK 223F 1/10 -CP
R2654	06S15593Y81	RES,RK 223F 1/10 -CP
R2655	06S55365Y85	RES,RK 682J 1/10 -CP
R2656	06S55365Y85	RES,RK 682J 1/10 -CP
R2657	06S15593Y97	RES,RK 104F 1/10 -CP
R2658	06S15593Y79	RES,RK 183F 1/10 -CP
R2681	06S55365Y89	RES,RK 103J 1/10 -CP
R2682	06S55365Y89	RES,RK 103J 1/10 -CP
R2683	06S55365Y89	RES,RK 103J 1/10 -CP
R2684	06S55365Y89	RES,RK 103J 1/10 -CP
R2685	06S55365Y41	RES,RK 101J 1/10 -CP
R2686	06S55365Y41	RES,RK 101J 1/10 -CP
R3000	06S55361Y51	RES,RK 271J 1/4 -CP
R3001	06S55361Y51	RES,RK 271J 1/4 -CP
R3002	06S55361Y89	RES,RK 103J 1/4 -CP
R3004	06S55366Y06	RES,RK 473J 1/10 -CP
R3005	06S55361Y89	RES,RK 103J 1/4 -CP
R3007	06S55366Y06	RES,RK 473J 1/10 -CP
R3008	06S55361Y89	RES,RK 103J 1/4 -CP
R3009	06S55366Y06	RES,RK 473J 1/10 -CP
R3010	06S55361Y89	RES,RK 103J 1/4 -CP
R3011	06S55366Y06	RES,RK 473J 1/10 -CP
R3012	06S55361Y81	RES,RK 472J 1/4 -CP
R3013	06S55361Y81	RES,RK 472J 1/4 -CP
R3101	06S55362Y39	RES,RK JUMPER 1/4-CP
R3104	06S15593Y63	RES,RK 392F 1/10 -CP
R3105	06S55365Y75	RES,RK 272J 1/10 -CP
R3107	06S55366Y06	RES,RK 473J 1/10 -CP
R3109	06S45348Y31	RES,RK 224F 1/4 -CP
R3110	06S15593Y87	RES,RK 393F 1/10 -CP
R3111	06S55365Y99	RES,RK 273J 1/10 -CP
R3114	06S55365Y99	RES,RK 273J 1/10 -CP
R3116	06S55366Y06	RES,RK 473J 1/10 -CP
R3118	06S55365Y59	RES,RK 561J 1/10 -CP
R3119	06S55365Y59	RES,RK 561J 1/10 -CP
R3121	06S55365Y99	RES,RK 273J 1/10 -CP
R3124	06S55365Y99	RES,RK 273J 1/10 -CP
R3125	06S55366Y38	RES,RK 105J 1/10 -CP
R3126	06S55366Y31	RES,RK 514J 1/10 -CP
R3127	06S55366Y38	RES,RK 105J 1/10 -CP
R3129	06S55366Y24	RES,RK 274J 1/10 -CP
R3165	06S15593Y73	RES,RK 103F 1/10 -CP
R3201	06S55365Y89	RES,RK 103J 1/10 -CP
R3202	06S55361Y15	RES,RK 8R2J 1/4 -CP

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R3204	06S55361Y15	RES,RK 8R2J 1/4 -CP
R3205	06S55361Y15	RES,RK 8R2J 1/4 -CP
R3206	06S55365Y89	RES,RK 103J 1/10 -CP
R3209	06S55365Y99	RES,RK 273J 1/10 -CP
R3210	06S55361Y71	RES,RK 182J 1/4 -CP
R3211	06S55361Y71	RES,RK 182J 1/4 -CP
R3215	06S55361Y89	RES,RK 103J 1/4 -CP
R3216	06S55362Y39	RES,RK JUMPER 1/4-CP
R3218	06S55361Y15	RES,RK 8R2J 1/4 -CP
R3231	06S55362Y39	RES,RK JUMPER 1/4-CP
R3232	06S15593Y77	RES,RK 153F 1/10 -CP
R3233	06S15593Y38	RES,RK 361F 1/10 -CP
R3234	06S15593Y56	RES,RK 202F 1/10 -CP
R3253	06S55361Y59	RES,RK 561J 1/4 -CP
R3254	06S55362Y39	RES,RK JUMPER 1/4-CP
R3255	06S55365Y01	RES,RK 2R2J 1/10 -CP
R4003	06S55365Y41	RES,RK 101J 1/10 -CP
R4007	06S55365Y41	RES,RK 101J 1/10 -CP
R4008	06S55365Y65	RES,RK 102J 1/10 -CP
R4009	06S55365Y41	RES,RK 101J 1/10 -CP
R4010	06S55365Y41	RES,RK 101J 1/10 -CP
R4011	06S55365Y41	RES,RK 101J 1/10 -CP
R4012	06S55365Y65	RES,RK 102J 1/10 -CP
R4013	06S55365Y61	RES,RK 681J 1/10 -CP
R4014	06S55365Y65	RES,RK 102J 1/10 -CP
R4015	06S55361Y51	RES,RK 271J 1/4 -CP
R4051	06S55361Y30	RES,RK 36RJ 1/4 -CP
R4052	06S55361Y31	RES,RK 39RJ 1/4 -CP
R4053	06S15593Y75	RES,RK 123F 1/10 -CP
R4054	06S15593Y73	RES,RK 103F 1/10 -CP
R4055	06S15593Y83	RES,RK 273F 1/10 -CP
R4056	06S15593Y41	RES,RK 471F 1/10 -CP
R4057	06S15593Y47	RES,RK 821F 1/10 -CP
R4058	06S15594Y04	RES,RK 184F 1/10 -CP
R4059	06S15593Y42	RES,RK 511F 1/10 -CP
R4060	06S15593Y49	RES,RK 102F 1/10 -CP
R4061	06S15593Y25	RES,RK 101F 1/10 -CP
R4062	06S15593Y53	RES,RK 152F 1/10 -CP
R4063	06S55362Y39	RES,RK JUMPER 1/4-CP
R4064	06S55362Y39	RES,RK JUMPER 1/4-CP
R4101	06S55361Y37	RES,RK 68RJ 1/4 -CP
R4102	06S55361Y37	RES,RK 68RJ 1/4 -CP
R4103	06S55361Y51	RES,RK 271J 1/4 -CP
R4104	06S55365Y41	RES,RK 101J 1/10 -CP
R4106	06S55365Y41	RES,RK 101J 1/10 -CP
R4107	06S55366Y38	RES,RK 105J 1/10 -CP
R4109	06S55366Y38	RES,RK 105J 1/10 -CP
R4110	06S55366Y38	RES,RK 105J 1/10 -CP
R4111	06S55366Y38	RES,RK 105J 1/10 -CP
R4112	06S55366Y38	RES,RK 105J 1/10 -CP
R4113	06S55366Y38	RES,RK 105J 1/10 -CP
R4152	06S55361Y30	RES,RK 36RJ 1/4 -CP
R4153	06S55361Y31	RES,RK 39RJ 1/4 -CP
R4162	06S55362Y39	RES,RK JUMPER 1/4-CP
R4208	06S55366Y39	RES,RK JUMPER1/10-CP
R4209	06S55361Y65	RES,RK 102J 1/4 -CP
R4210	06S55365Y41	RES,RK 101J 1/10 -CP

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R4215	06S45674W29	RES,RK 68RJ 1/10 -CP
R4216	06S70072F33	RES,CP .151-J-1/4-CP
R4220	06S55361Y30	RES,RK 36RJ 1/4 -CP
R4221	06S55361Y31	RES,RK 39RJ 1/4 -CP
R4223	06S15593Y75	RES,RK 123F 1/10 -CP
R4224	06S15593Y73	RES,RK 103F 1/10 -CP
R4225	06S15593Y83	RES,RK 273F 1/10 -CP
R4226	06S15593Y41	RES,RK 471F 1/10 -CP
R4227	06S15593Y47	RES,RK 821F 1/10 -CP
R4228	06S15593Y42	RES,RK 511F 1/10 -CP
R4229	06S15594Y04	RES,RK 184F 1/10 -CP
R4230	06S15593Y25	RES,RK 101F 1/10 -CP
R4231	06S15593Y49	RES,RK 102F 1/10 -CP
R4232	06S15593Y53	RES,RK 152F 1/10 -CP
R5002	06S55366Y06	RES,RK 473J 1/10 -CP
R5007	06S55366Y14	RES,RK 104J 1/10 -CP
R5013	06S55365Y97	RES,RK 223J 1/10 -CP
R5019	06S55366Y06	RES,RK 473J 1/10 -CP
R5023	06S55361Y57	RES,RK 471J 1/4 -CP
R5033	06S55365Y98	RES,RK 243J 1/10 -CP
R5034	06S55365Y69	RES,RK 152J 1/10 -CP
R5035	06S55365Y81	RES,RK 472J 1/10 -CP
R5036	06S55365Y81	RES,RK 472J 1/10 -CP
R5051	06S55366Y39	RES,RK JUMPER1/10-CP
R5055	06S55366Y39	RES,RK JUMPER1/10-CP
R5057	06S55365Y96	RES,RK 203J 1/10 -CP
R5058	06S55365Y96	RES,RK 203J 1/10 -CP
R5066	06S55365Y89	RES,RK 103J 1/10 -CP
R5070	06S55365Y89	RES,RK 103J 1/10 -CP
R5071	06S55365Y41	RES,RK 101J 1/10 -CP
R5072	06S55365Y65	RES,RK 102J 1/10 -CP
R5073	06S55365Y41	RES,RK 101J 1/10 -CP
R5074	06S55365Y41	RES,RK 101J 1/10 -CP
R5075	06S55365Y41	RES,RK 101J 1/10 -CP
R5079	06S55365Y41	RES,RK 101J 1/10 -CP
R5080	06S55361Y57	RES,RK 471J 1/4 -CP
R5081	06S55365Y97	RES,RK 223J 1/10 -CP
R5082	06S55362Y39	RES,RK JUMPER 1/4-CP
R5088	06S55365Y65	RES,RK 102J 1/10 -CP
R5089	06S55365Y65	RES,RK 102J 1/10 -CP
R5092	06S55365Y41	RES,RK 101J 1/10 -CP
R5094	06S55365Y41	RES,RK 101J 1/10 -CP
R5095	06S55365Y81	RES,RK 472J 1/10 -CP
R5096	06S55365Y65	RES,RK 102J 1/10 -CP
R5097	06S55365Y41	RES,RK 101J 1/10 -CP
R5098	06S55366Y06	RES,RK 473J 1/10 -CP
R5100	06S55366Y06	RES,RK 473J 1/10 -CP
R5114	06S55366Y06	RES,RK 473J 1/10 -CP
R5115	06S55365Y96	RES,RK 203J 1/10 -CP
R5117	06S55365Y96	RES,RK 203J 1/10 -CP
R5124	06S55366Y06	RES,RK 473J 1/10 -CP
R5126	06S55366Y39	RES,RK JUMPER1/10-CP
R5129	06S55366Y39	RES,RK JUMPER1/10-CP
R5131	06S55366Y06	RES,RK 473J 1/10 -CP
R5135	06S55366Y06	RES,RK 473J 1/10 -CP
R5137	06S55366Y06	RES,RK 473J 1/10 -CP
R5138	06S55366Y39	RES,RK JUMPER1/10-CP

IVA-D310R/IVA-D310RB

R5140	06S55361Y49	RES,RK 221J 1/4 -CP
R5141	06S55365Y41	RES,RK 101J 1/10 -CP
R5142	06S55365Y41	RES,RK 101J 1/10 -CP
R5143	06S55366Y06	RES,RK 473J 1/10 -CP
R5170	06S55366Y06	RES,RK 473J 1/10 -CP
R5176	06S55365Y97	RES,RK 223J 1/10 -CP
R5177	06S55365Y97	RES,RK 223J 1/10 -CP
R5179	06S55365Y89	RES,RK 103J 1/10 -CP
R5180	06S55365Y89	RES,RK 103J 1/10 -CP
R5182	06S55365Y97	RES,RK 223J 1/10 -CP
R5215	06S55365Y81	RES,RK 472J 1/10 -CP
R6000	06S55365Y69	RES,RK 152J 1/10 -CP
R6001	06S55365Y73	RES,RK 222J 1/10 -CP
R6002	06S55365Y73	RES,RK 222J 1/10 -CP
R6003	06S55365Y69	RES,RK 152J 1/10 -CP
R6004	06S55361Y46	RES,RK 161J 1/4 -CP
R6005	06S55361Y46	RES,RK 161J 1/4 -CP
R6006	06S55361Y46	RES,RK 161J 1/4 -CP
R6007	06S55361Y46	RES,RK 161J 1/4 -CP
R6008	06S55361Y17	RES,RK 10RJ 1/4 -CP
R6009	06S55365Y81	RES,RK 472J 1/10 -CP
R6014	06S55365Y81	RES,RK 472J 1/10 -CP
R6015	06S55366Y06	RES,RK 473J 1/10 -CP
R6016	06S55366Y06	RES,RK 473J 1/10 -CP
R6017	06S55366Y06	RES,RK 473J 1/10 -CP
R6022	06S55365Y85	RES,RK 682J 1/10 -CP
R6100	06S55365Y65	RES,RK 102J 1/10 -CP
R6200	06S55365Y89	RES,RK 103J 1/10 -CP
R6201	06S55365Y80	RES,RK 432J 1/10 -CP
R6204	06S55365Y89	RES,RK 103J 1/10 -CP
R6205	06S55365Y80	RES,RK 432J 1/10 -CP
R6211	06S55361Y80	RES,RK 432J 1/4 -CP
R6213	06S55365Y65	RES,RK 102J 1/10 -CP
R6214	06S55365Y78	RES,RK 362J 1/10 -CP
R6215	06S55365Y87	RES,RK 822J 1/10 -CP
R6216	06S55365Y87	RES,RK 822J 1/10 -CP
R6217	06S55365Y78	RES,RK 362J 1/10 -CP
R6218	06S55365Y58	RES,RK 511J 1/10 -CP
R6219	06S55365Y65	RES,RK 102J 1/10 -CP
R6221	06S55361Y65	RES,RK 102J 1/4 -CP
R6222	06S55361Y65	RES,RK 102J 1/4 -CP
R6232	06S55361Y63	RES,RK 821J 1/4 -CP
R6233	06S55361Y63	RES,RK 821J 1/4 -CP
R6234	06S55365Y81	RES,RK 472J 1/10 -CP
R6235	06S55365Y81	RES,RK 472J 1/10 -CP
R6505	06S55361Y65	RES,RK 102J 1/4 -CP
R6506	06S55361Y65	RES,RK 102J 1/4 -CP
R6507	06S55361Y65	RES,RK 102J 1/4 -CP
R6508	06S55366Y14	RES,RK 104J 1/10 -CP
R6510	06S55365Y97	RES,RK 223J 1/10 -CP
R6514	06S55361Y41	RES,RK 101J 1/4 -CP
R6515	06S55361Y37	RES,RK 68RJ 1/4 -CP
R6516	06S55361Y41	RES,RK 101J 1/4 -CP
R6517	06S55361Y41	RES,RK 101J 1/4 -CP
R6518	06S55361Y37	RES,RK 68RJ 1/4 -CP
R6519	06S55361Y41	RES,RK 101J 1/4 -CP
R6520	06S55361Y41	RES,RK 101J 1/4 -CP

IVA-D310R/IVA-D310RB

R6521	06S55361Y41	RES,RK 101J 1/4 -CP
R6522	06S55361Y41	RES,RK 101J 1/4 -CP
R6601	06S55365Y97	RES,RK 223J 1/10 -CP
R6602	06S55365Y41	RES,RK 101J 1/10 -CP
R6603	06S55365Y97	RES,RK 223J 1/10 -CP
R6604	06S55365Y41	RES,RK 101J 1/10 -CP
R6605	06S55365Y97	RES,RK 223J 1/10 -CP
R6606	06S55361Y33	RES,RK 47RJ 1/4 -CP
R6608	06S55361Y65	RES,RK 102J 1/4 -CP
R6609	06S55361Y65	RES,RK 102J 1/4 -CP
R6611	06S55361Y65	RES,RK 102J 1/4 -CP
R6613	06S55361Y73	RES,RK 222J 1/4 -CP
R6614	06S55361Y89	RES,RK 103J 1/4 -CP
R6615	06S55365Y41	RES,RK 101J 1/10 -CP
R6620	06S55361Y33	RES,RK 47RJ 1/4 -CP
R6621	06S55361Y33	RES,RK 47RJ 1/4 -CP
R6631	06S55361Y65	RES,RK 102J 1/4 -CP
R6632	06S55361Y65	RES,RK 102J 1/4 -CP
R6634	06S55361Y73	RES,RK 222J 1/4 -CP
R6637	06S55361Y33	RES,RK 47RJ 1/4 -CP
R6640	06S55361Y89	RES,RK 103J 1/4 -CP
R6641	06S55366Y06	RES,RK 473J 1/10 -CP
R6642	06S55361Y63	RES,RK 821J 1/4 -CP
R6643	06S55361Y63	RES,RK 821J 1/4 -CP
R6644	06S55365Y81	RES,RK 472J 1/10 -CP
R6645	06S55365Y81	RES,RK 472J 1/10 -CP
R6646	06S55361Y89	RES,RK 103J 1/4 -CP
RA1001	06S45591W06	RES,ARY MNR102J 4-CP
RA5001	06S45591W07	RES,ARY MNR101J 4-CP
RA5004	06S45591W06	RES,ARY MNR102J 4-CP
RA5005	06S45591W07	RES,ARY MNR101J 4-CP
RA5006	06S45591W06	RES,ARY MNR102J 4-CP
RA5007	06S45591W06	RES,ARY MNR102J 4-CP
RA6000	06S45591W15	RES,ARY MNR472J 4-CP
SA1001	48T81048F02	PTT,DSP-201M -RD
SA2201	48T25171Y02	VST,SA-C2012-101 -CP
SA2202	48T25171Y02	VST,SA-C2012-101 -CP
SA2203	48T25171Y02	VST,SA-C2012-101 -CP
SA2502	48T25171Y02	VST,SA-C2012-101 -CP
SA6601	48T25171Y02	VST,SA-C2012-101 -CP
SD1001	48T95117F01	DIO,CP MA713 -CP
SW2200	40T15452Y01	SW,SLIDE SLD-62-724X
SW2201	40T15452Y01	SW,SLIDE SLD-62-724X
VT1001	24T35286Y01	IND,MG56 523J -DB
XL1001	91T25806W18	XTL,4.332M -AT51-TP
XL1002	91T55360Y03	XTL,AT-51 12.288M-R5
XL2030	91T35227Y03	XTL,CS10 33.8688M-E2
XL6000	91T45118W12	XTL,4.000 -AT51-SL
XL6001	91T75536Y01	XTL,NX8045GB 19.9-E5
Z1001	91T45556Y06	EMI,NFM21HC102R1H-CP
Z1002	91T15509Y08	EMI,BK1608HM102 -CP
Z2030	91T45160Y01	EMI,CNH31R473S -CP
Z2032	91T65112W06	EMI,BK2125HM102 -CP
Z2033	91T65112W06	EMI,BK2125HM102 -CP
Z2034	91T65112W06	EMI,BK2125HM102 -CP
Z2035	91T65112W06	EMI,BK2125HM102 -CP
Z2036	91T65112W06	EMI,BK2125HM102 -CP

IVA-D310R/IVA-D310RB

Z2037	91T15509Y08	EMI,BK1608HM102 -CP
Z2038	91T15509Y08	EMI,BK1608HM102 -CP
Z2039	91T15509Y08	EMI,BK1608HM102 -CP
Z2040	91T65112W06	EMI,BK2125HM102 -CP
Z5001	91T15509Y08	EMI,BK1608HM102 -CP
Z5002	91T15509Y08	EMI,BK1608HM102 -CP
Z5003	91T15509Y08	EMI,BK1608HM102 -CP
Z5004	91T15509Y08	EMI,BK1608HM102 -CP
Z5005	91T15509Y08	EMI,BK1608HM102 -CP
Z5006	91T15509Y08	EMI,BK1608HM102 -CP
Z6200	91T45556Y06	EMI,NFM21HC102R1H-CP
Z6201	91T45556Y06	EMI,NFM21HC102R1H-CP
ZD3000	48T25064Y02	DIO,ZEN ZSH5MA27A-ED
ZD3002	48T15541Y59	DIO,ZEN MAZS0680H-CP
ZD3250	48T25766W24	DIO,ZEN.HZS 9C1L -R5
ZD6000	48T35392Y06	DIO,ZEN RLZ7.5A -CP
ZD6001	48T35392Y06	DIO,ZEN RLZ7.5A -CP
ZD6002	48T15541Y52	DIO,ZEN MAZS0560M-CP
ZD6501	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6502	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6503	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6505	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6506	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6507	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6508	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6509	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6510	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6602	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6604	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6606	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6610	48T15541Y53	DIO,ZEN MAZS0560H-CP
ZD6611	48T15541Y53	DIO,ZEN MAZS0560H-CP

=====RADIO P.W.Board

C001	08S82122F23	CAP,CER.27RJ-CH1H-CP
C002	08S45677W60	CAP,CER 102J-CH1H-CP
C003	08S45676W73	CAP,CER.103K-B1H -CP
C004	08S45677W12	CAP,CER.10RD-CH1H-CP
C005	08S45677W20	CAP,CER.22RJ-CH1H-CP
C007	08S45677W09	CAP,CER 7R0D-CH1H-CP
C008	08S45677W26	CAP,CER.39RJ-CH1H-CP
C009	08S45676W67	CAP,CER.332K-B1H -CP
C010	08S45676W73	CAP,CER.103K-B1H -CP
C011	08S45676W73	CAP,CER.103K-B1H -CP
C012	06S45675W43	RES,RK JUMPER1/10-CP
C014	08S45677W06	CAP,CER 4ROC-CH1H-CP
C015	08S45677W08	CAP,CER.6R0D-CH1H-CP
C016	08S45677W08	CAP,CER.6R0D-CH1H-CP
C017	08S45677W12	CAP,CER.10RD-CH1H-CP
C019	08S45677W36	CAP,CER.101J-CH1H-CP
C020	08S45676W80	CAP,CER 223K-B1E -CP
C021	08S45676W85	CAP,CER 104K-B1C -CP
C022	08S45676W85	CAP,CER 104K-B1C -CP
C023	08S45677W32	CAP,CER.68RJ-CH1H-CP
C024	08S45677W16	CAP,CER.15RJ-CH1H-CP
C025	08S45677W04	CAP,CER.2R0C-CH1H-CP
C026	08S45677W20	CAP,CER.22RJ-CH1H-CP

IVA-D310R/IVA-D310RB

C027	08S45676W80	CAP,CER 223K-B1E -CP
C029	08S45676W73	CAP,CER.103K-B1H -CP
C030	08S45676W85	CAP,CER 104K-B1C -CP
C031	08S45676W85	CAP,CER 104K-B1C -CP
C032	08S45676W65	CAP,CER.222K-B1H -CP
C033	08S45676W73	CAP,CER.103K-B1H -CP
C034	08S45677W60	CAP,CER 102J-CH1H-CP
C035	08S45676W73	CAP,CER.103K-B1H -CP
C036	08S45676W85	CAP,CER 104K-B1C -CP
C037	08S45676W73	CAP,CER.103K-B1H -CP
C038	08S45676W73	CAP,CER.103K-B1H -CP
C039	08S45677W38	CAP,CER 121J-CH1H-CP
C040	08S45676W68	CAP,CER.392K-B1H -CP
C041	08S35374W08	CAP,CER 474K-B1C -CP
C043	08S45676W85	CAP,CER 104K-B1C -CP
C044	08S45676W85	CAP,CER 104K-B1C -CP
C045	08S45676W85	CAP,CER 104K-B1C -CP
C046	08S35350Y05	CAP,CER 105K-B1A -CP
C048	08S45676W80	CAP,CER 223K-B1E -CP
C049	08S45676W80	CAP,CER 223K-B1E -CP
C050	08S45676W80	CAP,CER 223K-B1E -CP
C051	08S45677W36	CAP,CER.101J-CH1H-CP
C052	08S45676W85	CAP,CER 104K-B1C -CP
C053	08S45676W73	CAP,CER.103K-B1H -CP
C054	08S45676W69	CAP,CER.472K-B1H -CP
C055	08S45676W80	CAP,CER 223K-B1E -CP
C056	08S45676W80	CAP,CER 223K-B1E -CP
C058	08S45677W32	CAP,CER.68RJ-CH1H-CP
C059	08S45676W80	CAP,CER 223K-B1E -CP
C060	08S35374W08	CAP,CER 474K-B1C -CP
C061	08S35350Y05	CAP,CER 105K-B1A -CP
C062	08S45676W73	CAP,CER.103K-B1H -CP
C063	08S35350Y05	CAP,CER 105K-B1A -CP
CB001	09T75437Y20	PIN,IMSA9210B-20Z-DB
CF001	91T35405W02	CERFIL,SFELA10M7 -DB
CF002	91T35405W02	CERFIL,SFELA10M7 -DB
CF003	91T35405W02	CERFIL,SFELA10M7 -DB
CF004	91T15651Y02	CERFIL,CFWLA450K -DB
D001	48T25619Y01	DIO,1SV316-TB -CP
D002	48T65157W01	DIO,VAR KV1410 -XX
D003	48T65157W01	DIO,VAR KV1410 -XX
D004	48T65157W01	DIO,VAR KV1410 -XX
D006	48T68806F01	DIO,1SV172/L -CP
E001	23S65134W81	CAP,ELY 22R-1C(4)-E2
E002	23S65134W81	CAP,ELY 22R-1C(4)-E2
E003	23S65134W81	CAP,ELY 22R-1C(4)-E2
E004	23S65134W41	CAP,ELY 4R7-1E(3)-E2
E006	23S65134W81	CAP,ELY 22R-1C(4)-E2
E008	23S65134W80	CAP,ELY 10R-1C(3)-E2
E009	23S65134W80	CAP,ELY 10R-1C(3)-E2
IC001	51T45508Y03	ETDA7511N -QT
IFT001	24T45563Y01	COIL,IFT1 F/A 5PG-DB
IFT002	24T45563Y03	COIL,IFT2 AM 5PG -DB
L001	24T25164Y05	IND,FSLM2520 R22J-CP
L002	24T45428Y01	COIL,ANT1 FM 5KR -DB
L003	24T45429Y01	COIL,RF FM 5KR -DB
L004	24T45427Y01	COIL,OSC F/A 5KR -DB

IVA-D310R/IVA-D310RB

L005	24T25164Y17	IND,FSLM2520 2R2J-CP
L006	24T65176W37	IND,NL453232 102J-E2
L008	24T15758Y19	IND,NLFC 102K -CP
L010	24T25164Y35	IND,FSLM2520 68RJ-CP
Q001	48T16465W01	FET,CP.3SK195-Y-R
Q002	48T15606Y02	FET,FC18-FG-TL -CP
R001	06S45675W06	RES,RK 104J 1/10 -CP
R002	06S45674W99	RES,RK 563J 1/10 -CP
R003	06S45674W89	RES,RK 223J 1/10 -CP
R004	06S45674W81	RES,RK 103J 1/10 -CP
R005	06S45674W33	RES,RK 101J 1/10 -CP
R006	06S45675W43	RES,RK JUMPER1/10-CP
R007	06S45674W09	RES,RK 10RJ 1/10 -CP
R008	06S45674W99	RES,RK 563J 1/10 -CP
R009	06S45674W77	RES,RK 682J 1/10 -CP
R010	06S45674W99	RES,RK 563J 1/10 -CP
R012	06S45674W75	RES,RK 562J 1/10 -CP
R013	06S45674W53	RES,RK 681J 1/10 -CP
R014	06S45674W09	RES,RK 10RJ 1/10 -CP
R015	06S45674W99	RES,RK 563J 1/10 -CP
R016	06S45674W75	RES,RK 562J 1/10 -CP
R017	06S45674W09	RES,RK 10RJ 1/10 -CP
R019	06S45674W09	RES,RK 10RJ 1/10 -CP
R020	06S45674W83	RES,RK 123J 1/10 -CP
R023	06S45674W65	RES,RK 222J 1/10 -CP
R024	06S45674W73	RES,RK 472J 1/10 -CP
R025	06S45674W65	RES,RK 222J 1/10 -CP
R026	06S45675W30	RES,RK 105J 1/10 -CP
R027	06S45674W57	RES,RK 102J 1/10 -CP
R028	06S45675W06	RES,RK 104J 1/10 -CP
R029	06S45674W17	RES,RK 22RJ 1/10 -CP
R031	06S45674W09	RES,RK 10RJ 1/10 -CP
R033	06S45674W17	RES,RK 22RJ 1/10 -CP
XL001	91T45561Y01	XTL,HC-49 10.25M -DB

===== Miscellaneous

ANT1001	09T25015Y01	ANT,RECEPTACLE -DB
CB3300	09T35473Y16	WTB,F169B001-16 -DB
CB6601	09T13515W06	WTB,5569-06A1 -DB
DIN2001	09T55629Y02	DIN,G19-AABAA-CC -DB
DIN2200	09T55071W01	CONN,TCP9389 BLACK
DIN6200	09T75435Y01	DIN,TCS7722-01211-DB
DIN6500	09T15462Y02	DIN,TCS7741-01WA -DB
DIN6600	09T75224Y01	DIN,CAM-C12-020 -DB
JK2200	09-02344Z01	RCA,AV6-8.4-29-RW-DB
JK2521	09T15493Y03	RCA,JPJ2689-010620DB
JK2522	09T15627W04	RCA,T6314-AACB -DB
M3250	59T55190Y03	MOTOR,F2510CT-12UCV