DENON

Service Manual Ver. 1

AV SURROUND RECEIVER

AVR-S530BT
AVR-X540BT

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

Click here!

On-line service parts list

We are getting ready.

On-line owner's manual (Release schedule)

http://manuals.denon.com/AVRS530BT/NA/EN/index.php

http://manuals.denon.com/AVRX540BT/EU/EN/index.php (March 2017)

http://manuals.denon.com/AVRX540BT/AP/ZH/index.php (April 2017)

(You can download PDF owner's manual of "NA" model from SDI server as of March 2017.)

CAUTION IN SERVICING

SAFETY PRECAUTIONS

NOTE FOR SCHEMATIC DIAGRAM

NOTE FOR PARTS LIST

INSTRUCTIONS FOR HANDLING SEMICONDUCTORS AND OPTICAL UNIT

CAUTION IN SERVICING.

SAFETY PRECAUTIONS

The following items should be checked for continued protection of the customer and the service technician.

Leakage current check

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.
Be sure to test for leakage current with the AC plug in both polarities, in addition, when the set's power is in each state (on, off and standby mode), if applicable.

CAUTION **Please heed the following cautions and instructions during servicing and inspection.**

◎ Heed the cautions!

Cautions which are delicate in particular for servicing are labeled on the cabinets, the parts and the chassis, etc. Be sure to heed these cautions and the cautions described in the handling instructions.

◎ Cautions concerning electric shock!

(1) An AC voltage is impressed on this set, so if you touch internal metal parts when the set is energized, you may get an electric shock. Avoid getting an electric shock, by using an isolating transformer and wearing gloves when servicing while the set is energized, or by unplugging the power cord when replacing parts, for example.
(2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ Caution concerning disassembly and assembly!

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

◎ Use only designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). Be sure to use parts which have the same properties for replacement. The burrs have the same properties. In particular, for the important safety parts that are indicated by the ⚠ mark on schematic diagrams and parts lists, be sure to use the designated parts.

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

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

◎ Make a safety check after servicing!

Check that all screws, parts and wires removed or disconnected when servicing have been put back in their original positions, check that no serviced parts have deteriorate the area around. Then make an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.
(Insulation check procedure)
Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and on the power. Using a 500V insulation resistance tester, check that the insulation resistance value between the inplug and the externally exposed metal parts (antenna terminal, headphones terminal, input terminal, etc.) is 1M Ω or greater. If it is less, the set must be inspected and repaired.

CAUTION **Concerning important safety parts**

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

(1) Schematic diagrams Indicated by the ⚠ mark.
(2) Parts lists Indicated by the ⚠ mark.
The use of parts other than the designated parts could cause electric shocks, fires or other dangerous situations.

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts indicated by the ⚠ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

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

WARNING:

DO NOT return the set to the customer unless the problem is identified and remedied.

NOTICE:

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

NOTE FOR PARTS LIST

1. Parts indicated by "**nsp**" on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by "**@**" mark is not illustrated in the exploded view.

WARNING: Parts indicated by the ⚠ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

INSTRUCTIONS FOR HANDLING SEMICONDUCTORS AND OPTICAL UNIT

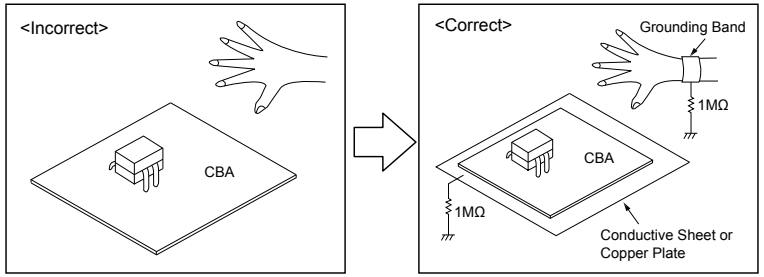
Electrostatic breakdown of the semi-conductors or optical pickup may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band (1 M ohm) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 M ohm) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing



CAUTION IN SERVICING.

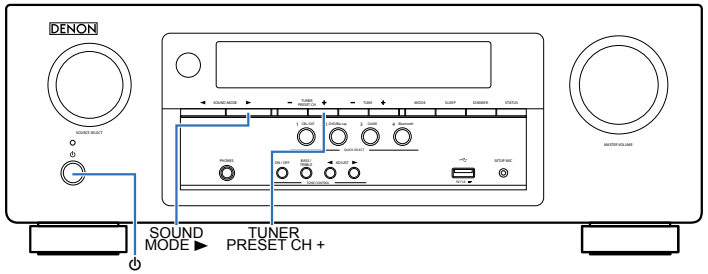
Initializing This Unit AVR-S530BT

Make sure to initialize this unit after replacing the microcomputer or any peripheral equipment, or the digital PCB.

1. Press the power button to turn off the power.
2. While holding down buttons "**SOUND MODE ►**" and "**TUNER PRESET CH+**" simultaneously, press the power button to turn on the power.
3. Release the buttons after confirming that the display flashes at 1-second intervals.
   ∗ The unit is initialized.

NOTE：
- If the unit fails to enter the service mode in step 3, repeat the procedure from step 1.
- Initializing the device restores the customized settings to the factory settings. Write down your settings in advance and reconfigure the settings after initialization.

AVR-S530BT



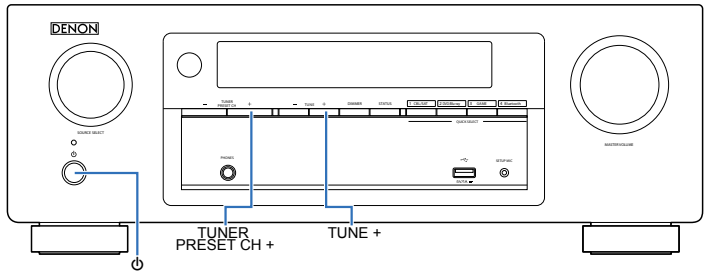
Initializing This Unit AVR-X540BT

Make sure to initialize this unit after replacing the microcomputer or any peripheral equipment, or the digital PCB.

1. Press the power button to turn off the power.
2. While holding down buttons "**TUNER PRESET CH+**" and "**TUNE +**" simultaneously, press the power button to turn on the power.
3. Release the buttons after confirming that the display flashes at 1-second intervals.
   ∗ The unit is initialized.

NOTE：
- If the unit fails to enter the service mode in step 3, repeat the procedure from step 1.
- Initializing the device restores the customized settings to the factory settings. Write down your settings in advance and reconfigure the settings after initialization.

AVR-X540BT



ELECTRICAL

SCHEMATIC DIAGRAMS

PRINTED CIRCUIT BOARDS

LEVEL DIAGRAM

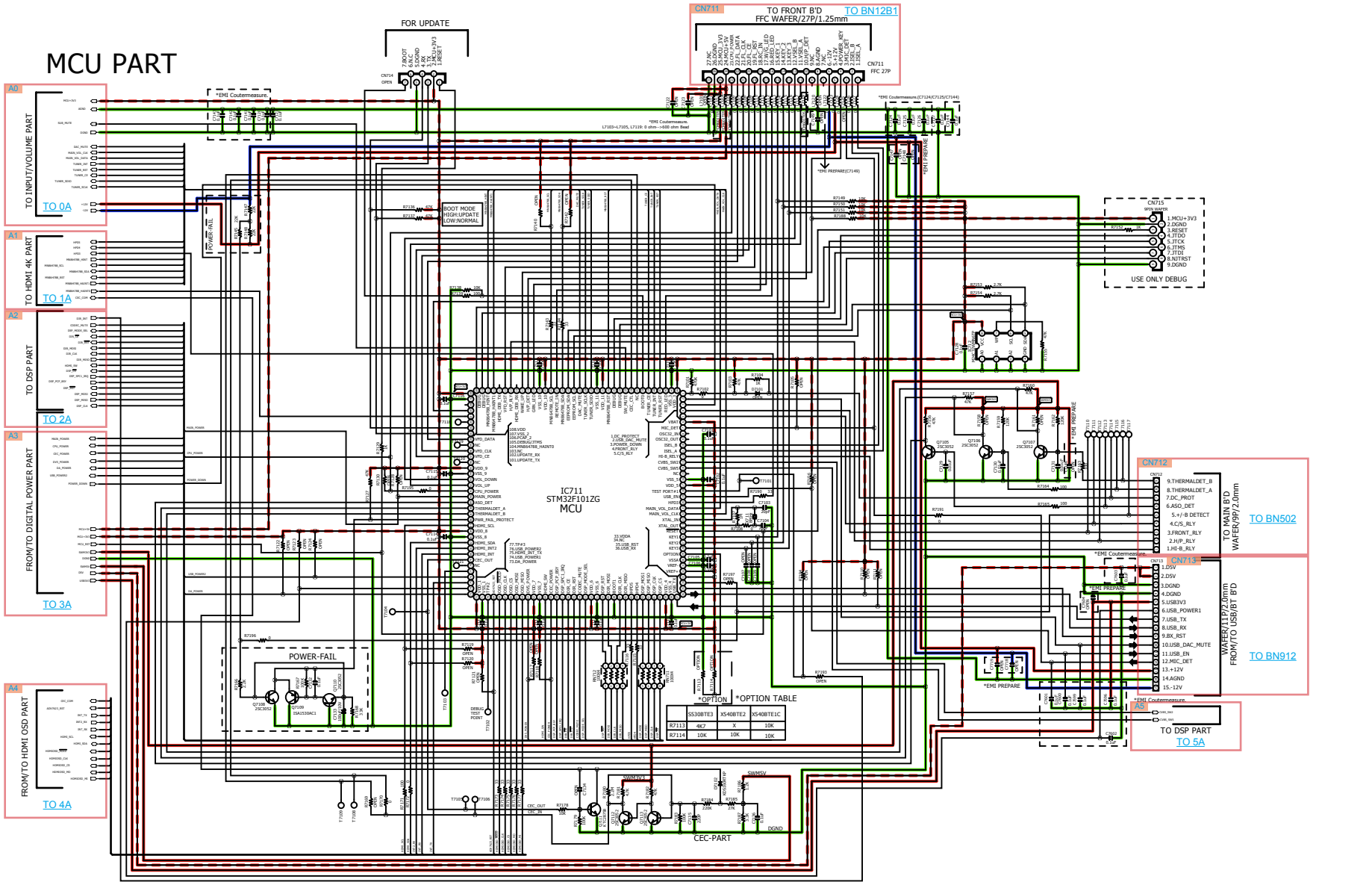
BLOCK DIAGRAM

POWER DIAGRAM

WIRING DIAGRAM

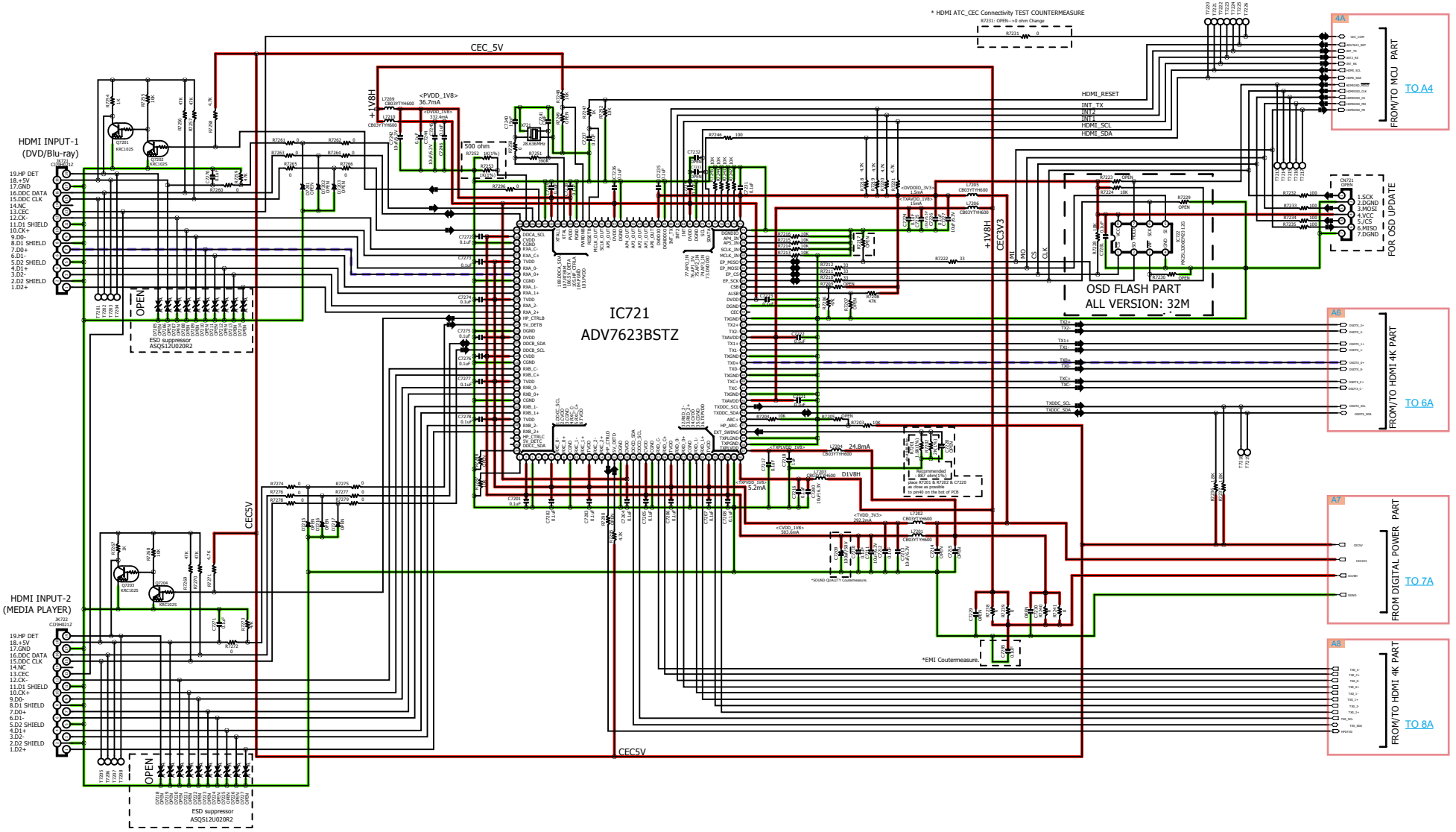
SEMICONDUCTORS

SCH01_MCU



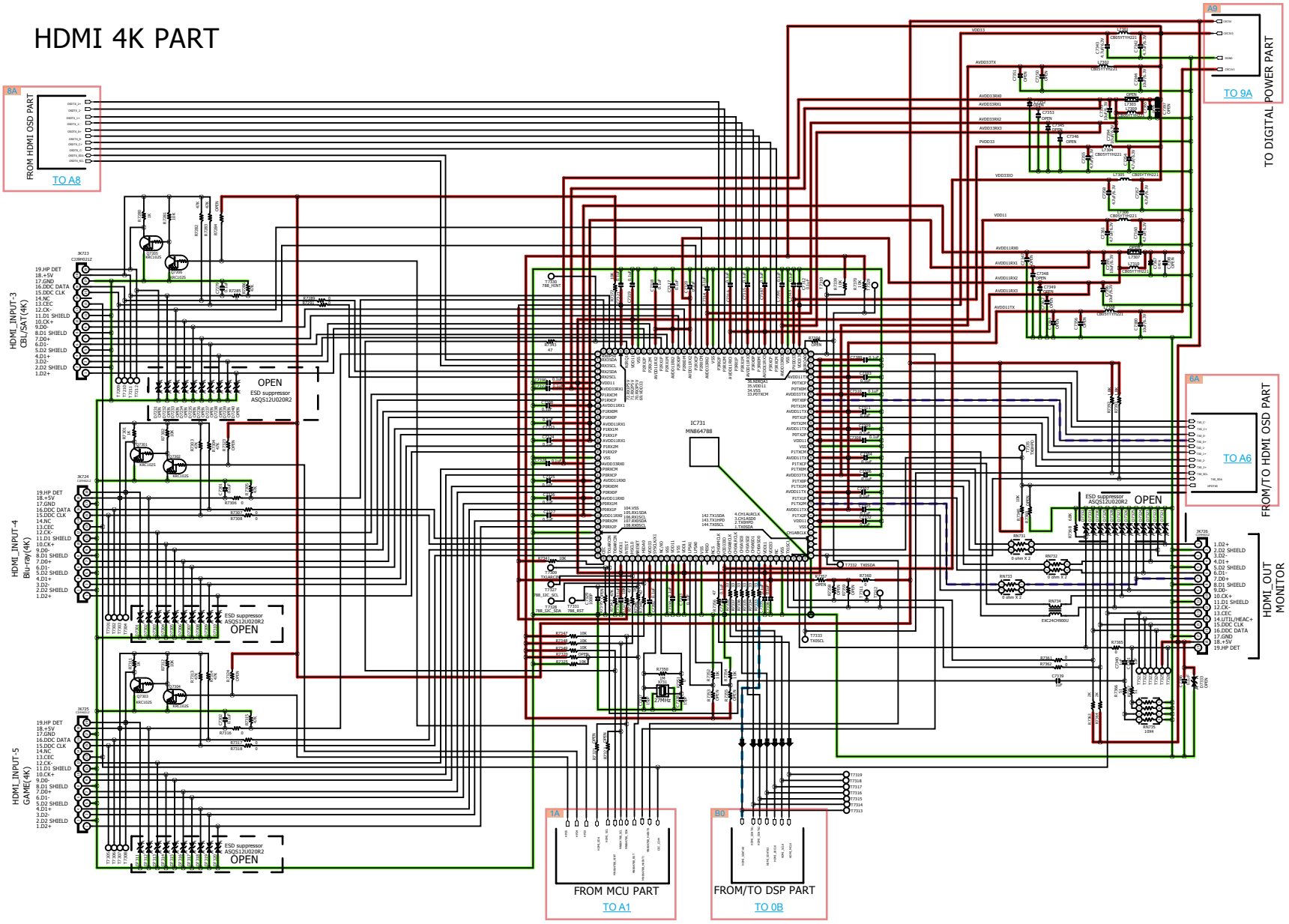
GND LINE POWER+ LINE POWER- LINE AUDIO SIGNAL DIGITAL AUDIO TMDS SIGNAL ANALOG VIDEO STBY POWER

HDMI OSD PART



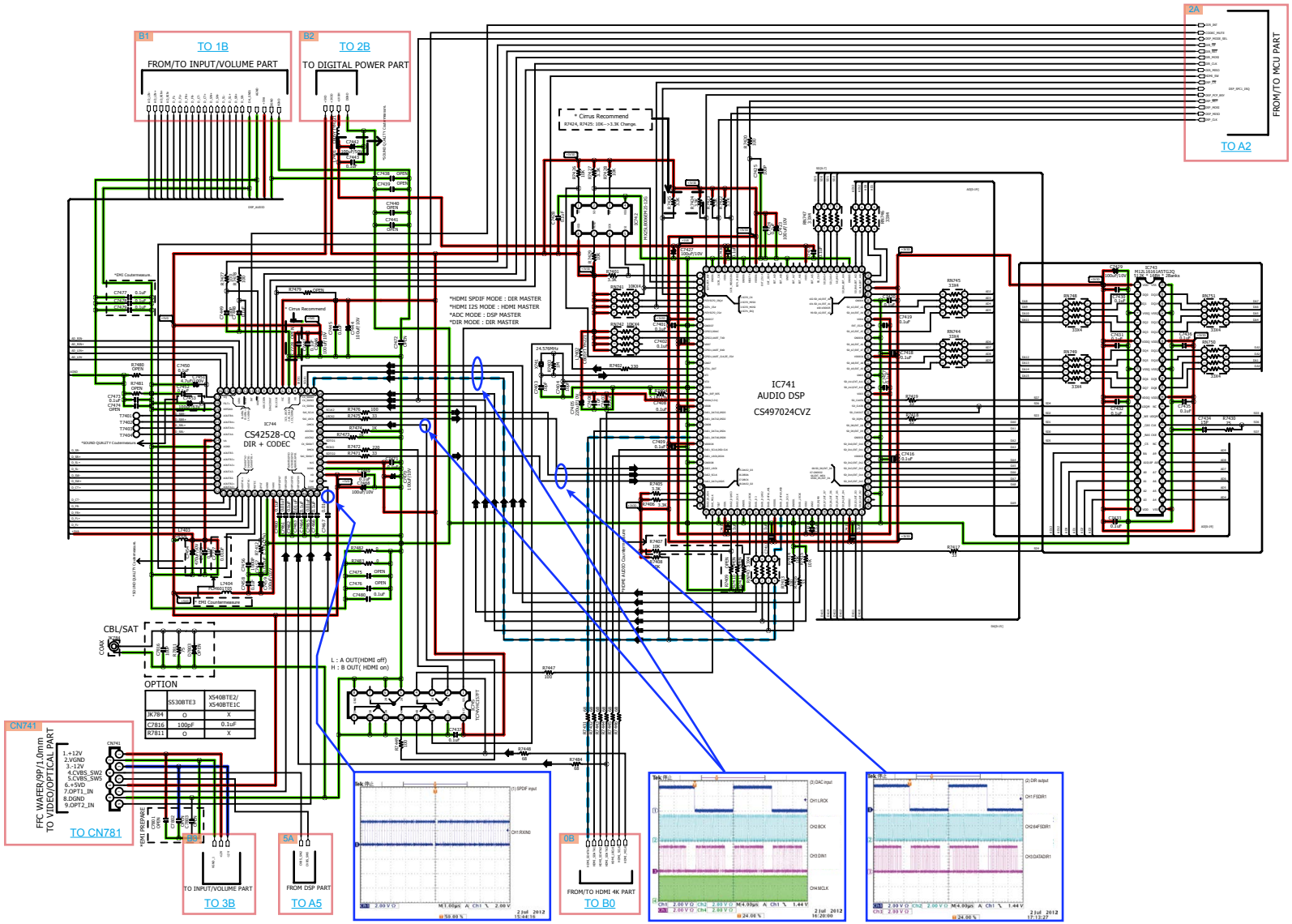
GND LINE POWER+ LINE POWER- LINE AUDIO SIGNAL DIGITAL AUDIO TMDS SIGNAL ANALOG VIDEO STBY POWER

HDMI 4K PART

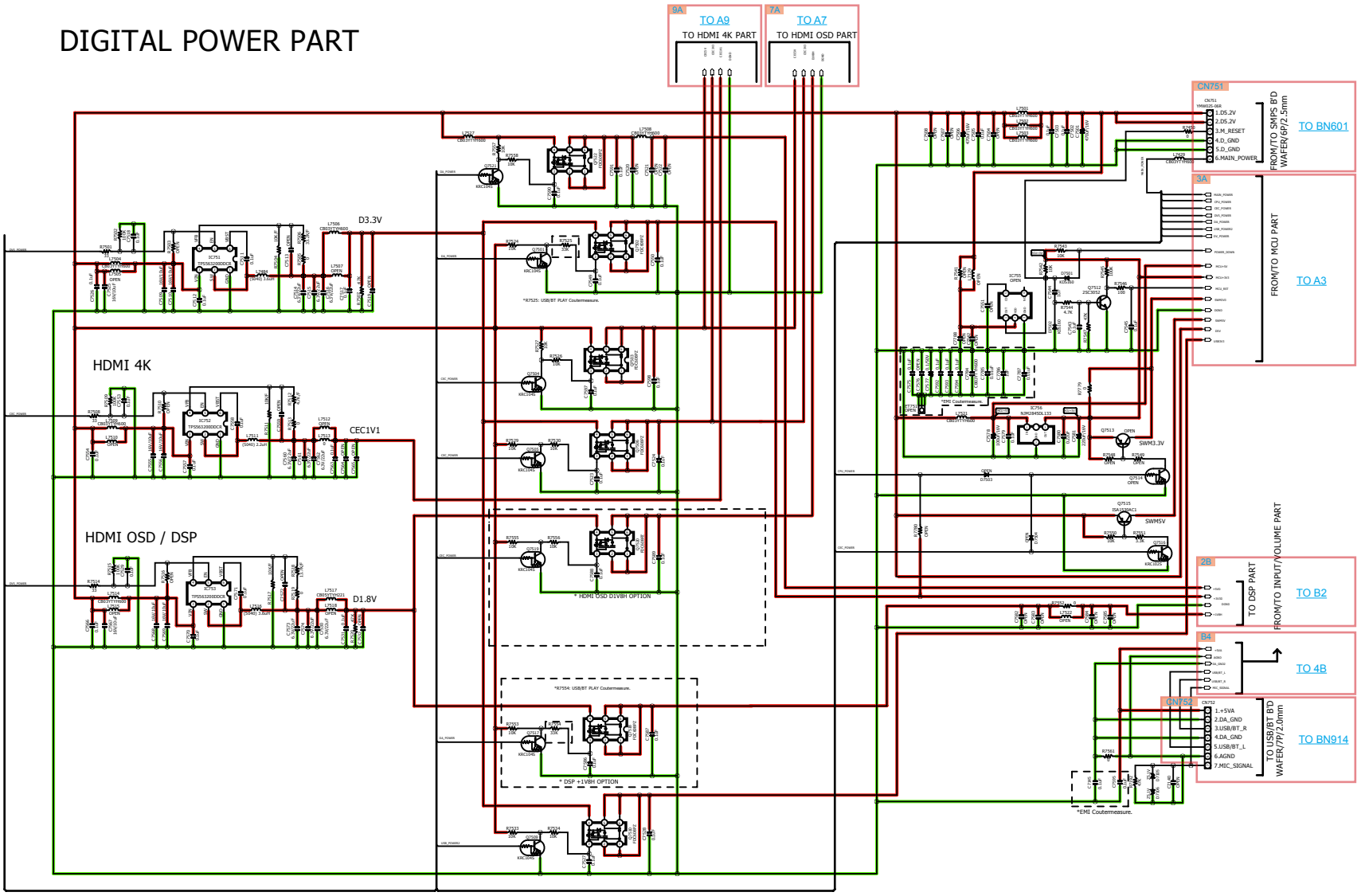


GND LINE POWER+ LINE POWER- LINE AUDIO SIGNAL DIGITAL AUDIO TMDS SIGNAL ANALOG VIDEO STBY POWER

DSP PART

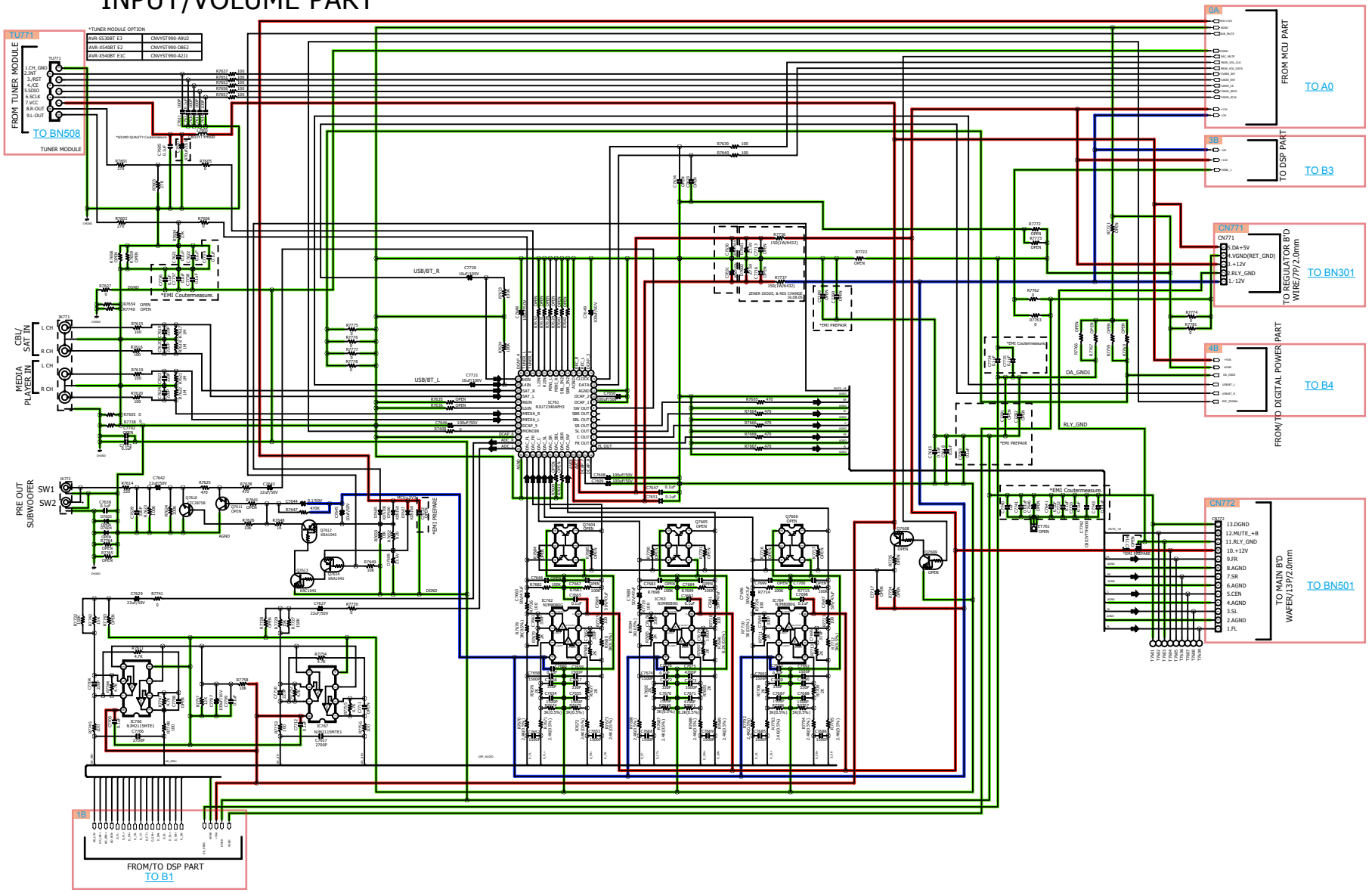


GND LINE | POWER+ LINE | POWER- LINE | AUDIO SIGNAL | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER



GND LINE POWER+ LINE POWER- LINE AUDIO SIGNAL DIGITAL AUDIO TMDS SIGNAL ANALOG VIDEO STBY POWER

INPUT/VOLUME PART



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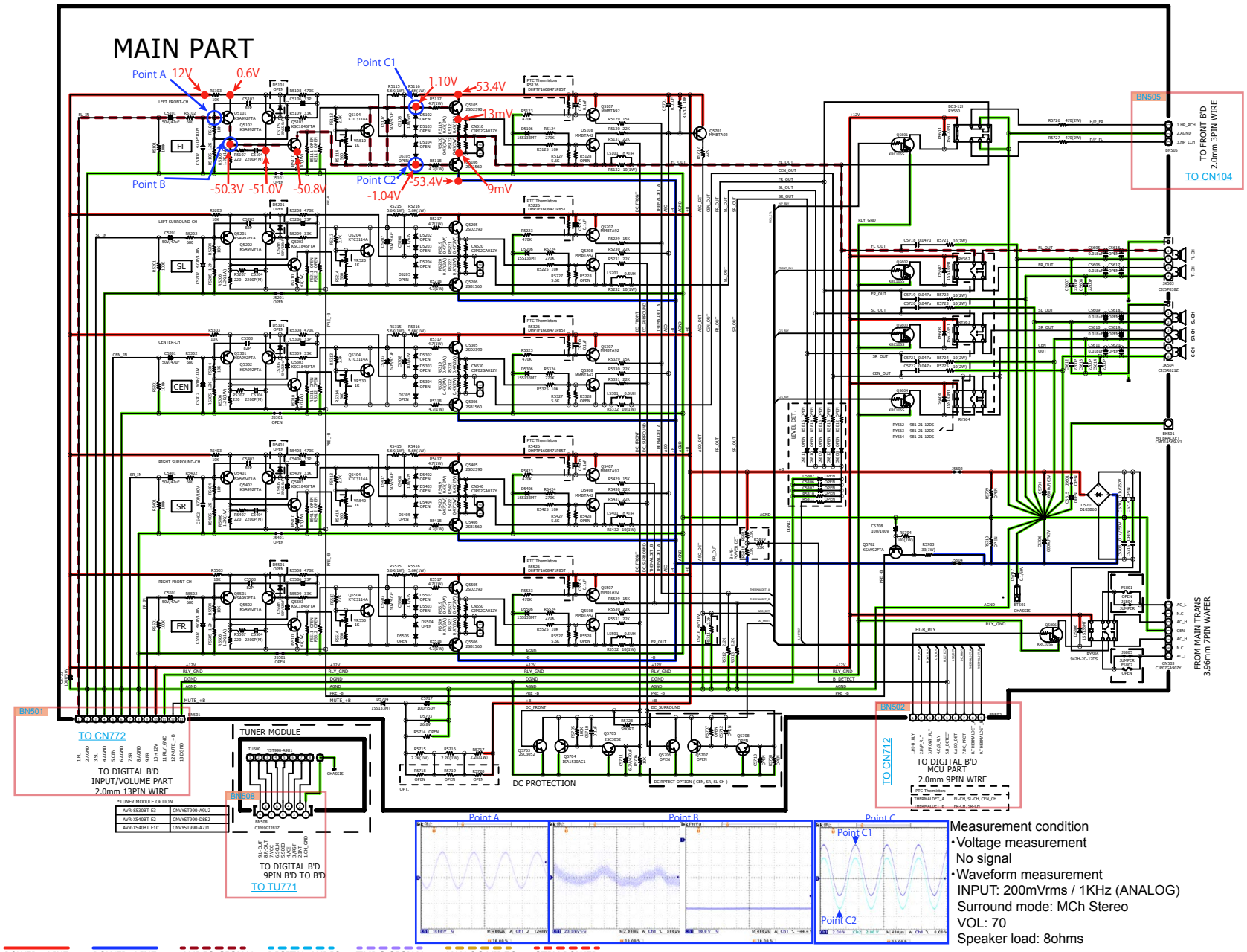
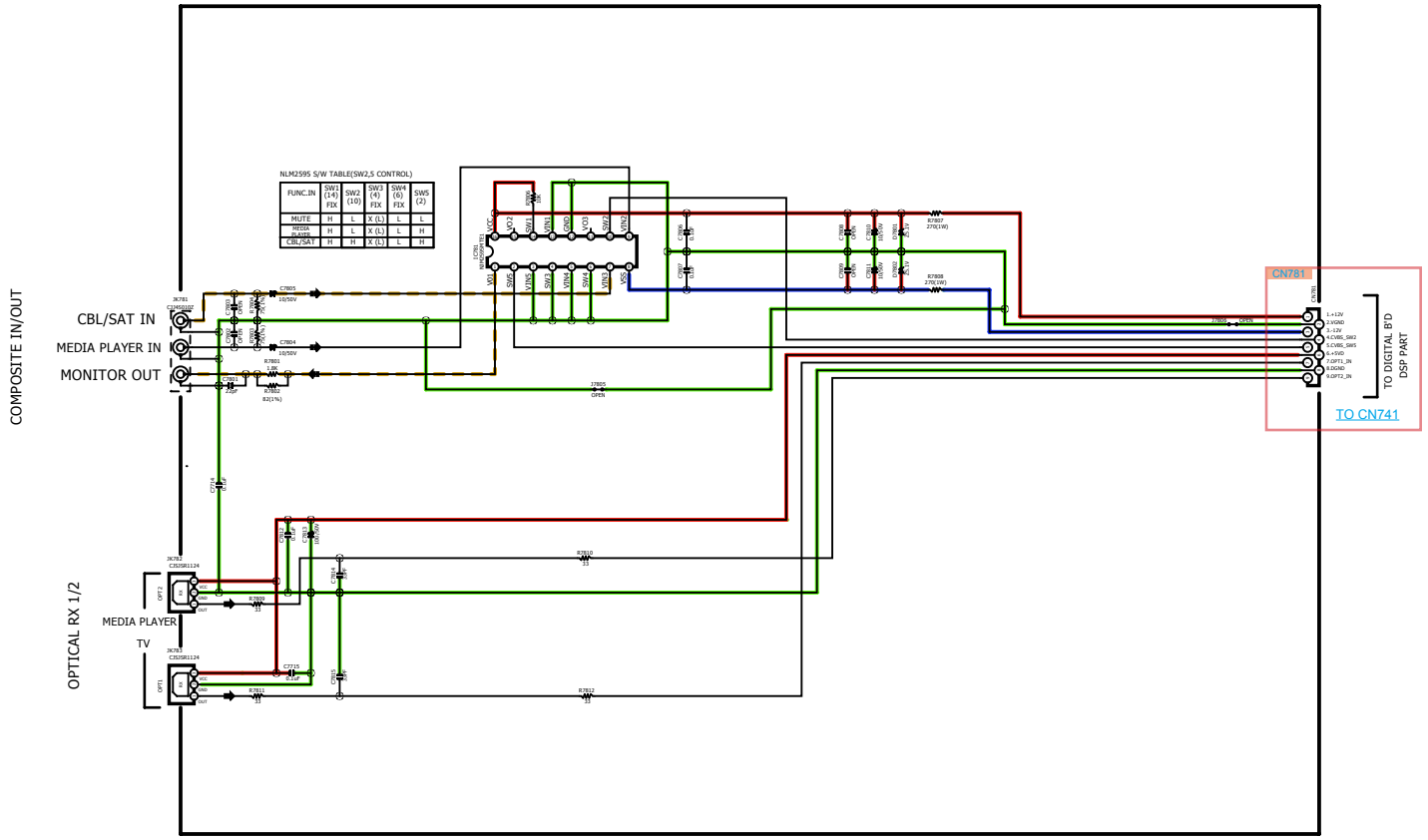


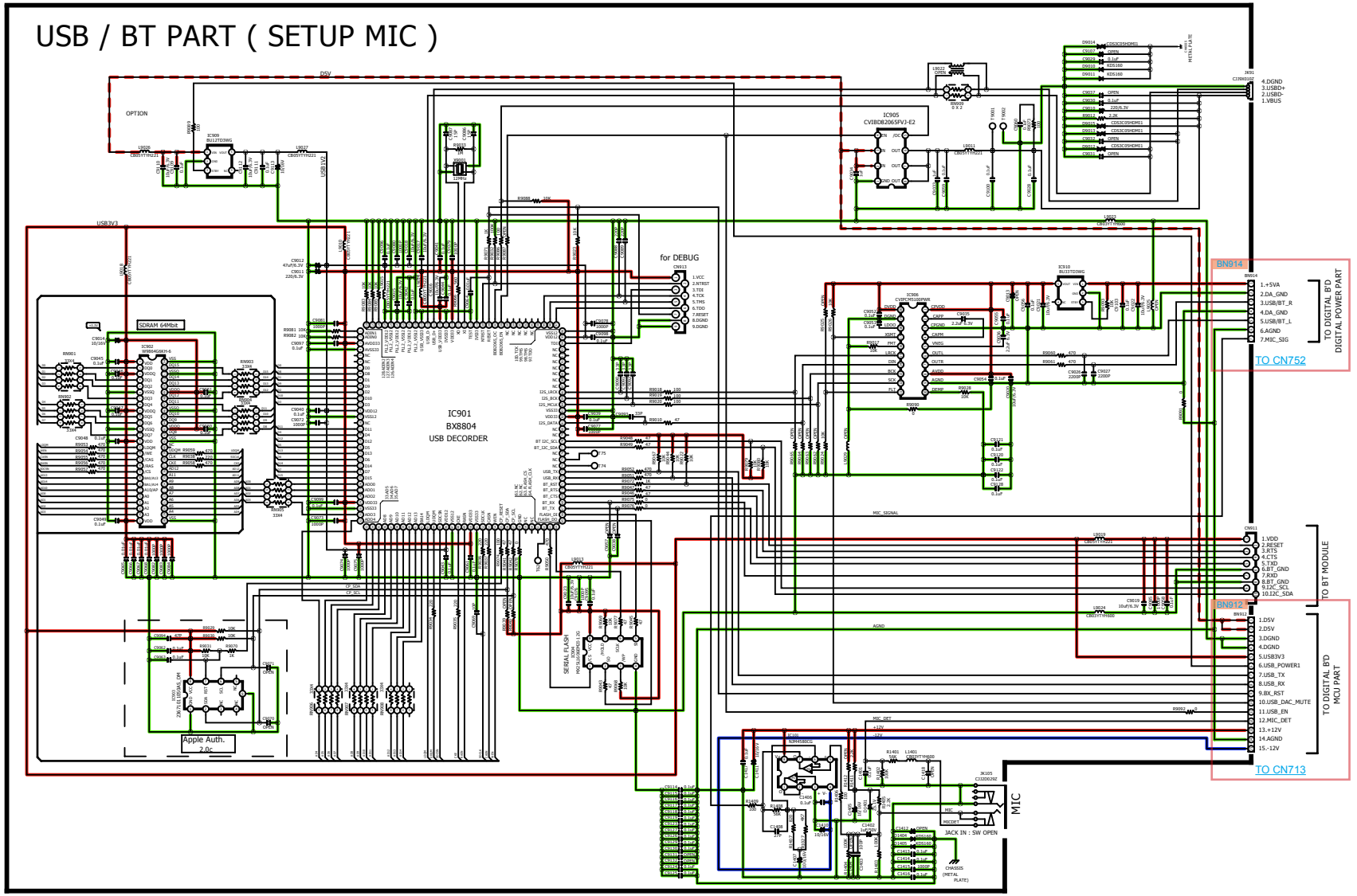
Measurement condition
- Voltage measurement
  No signal
- Waveform measurement
  INPUT: 200mVrms / 1KHz (ANALOG)
  Surround mode: MCh Stereo
  VOL: 70
  Speaker load: 8ohms

GND LINE | POWER+ LINE | POWER- LINE | AUDIO SIGNAL | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

VIDEO/OPTICAL PART



GND LINE POWER+ LINE POWER- LINE AUDIO SIGNAL DIGITAL AUDIO TMDS SIGNAL ANALOG VIDEO STBY POWER



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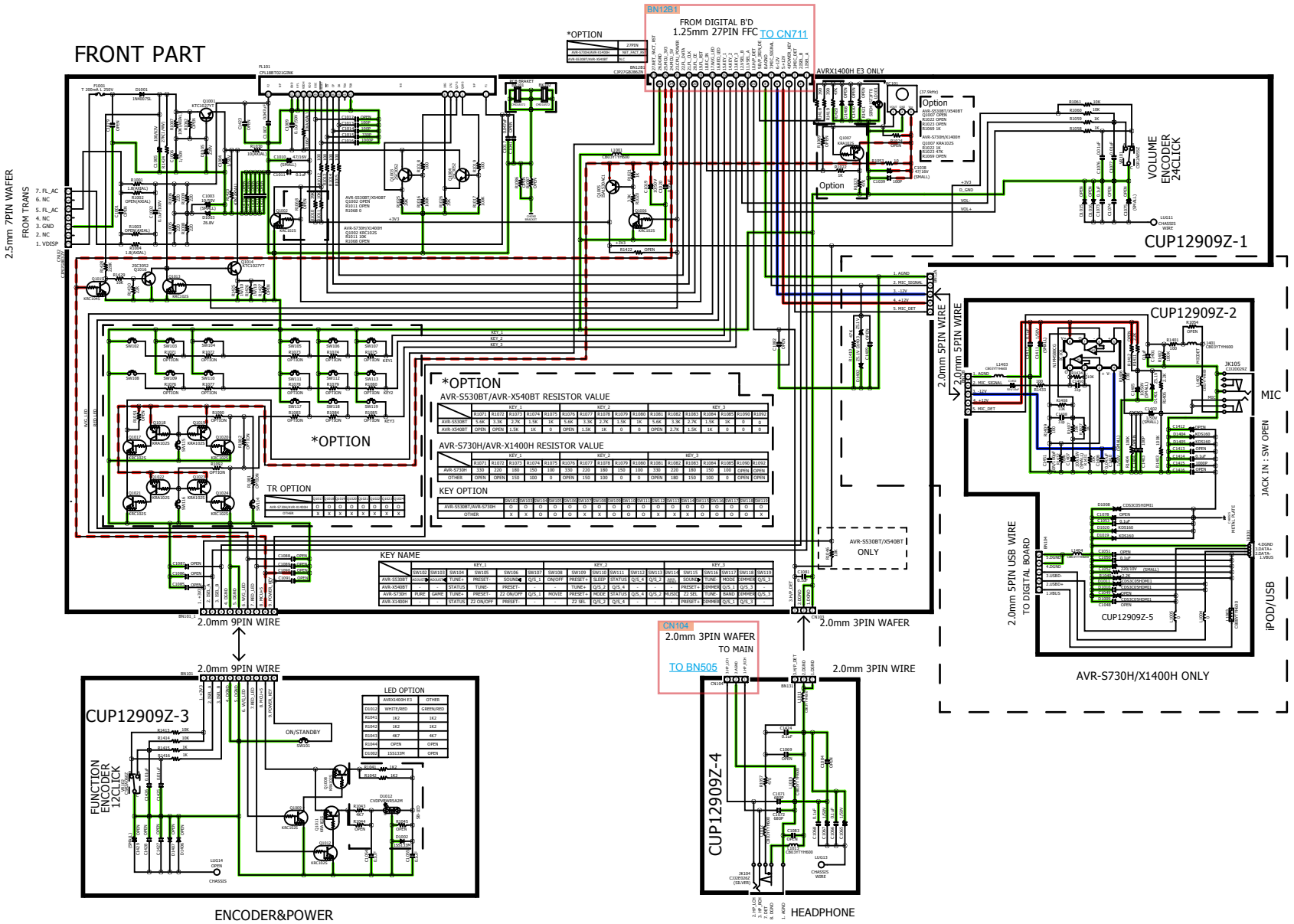
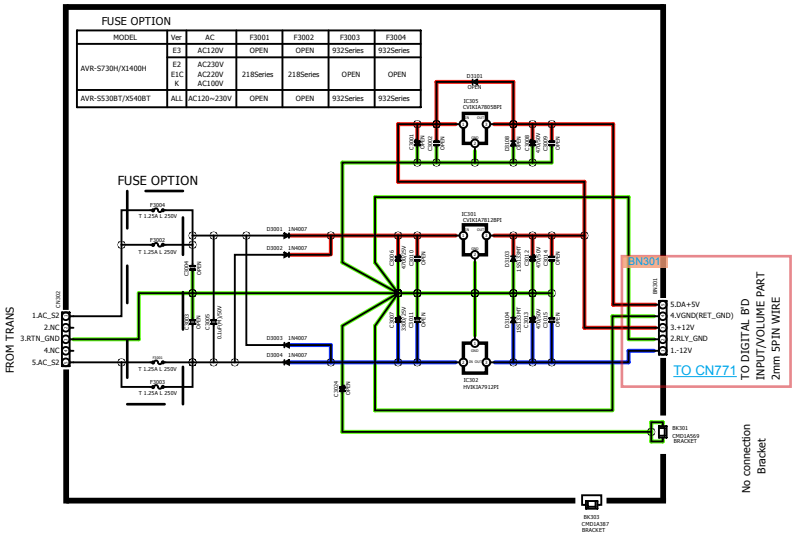


GND LINE POWER+ LINE POWER- LINE AUDIO SIGNAL DIGITAL AUDIO TMDS SIGNAL ANALOG VIDEO STBY POWER

REGULATOR PART



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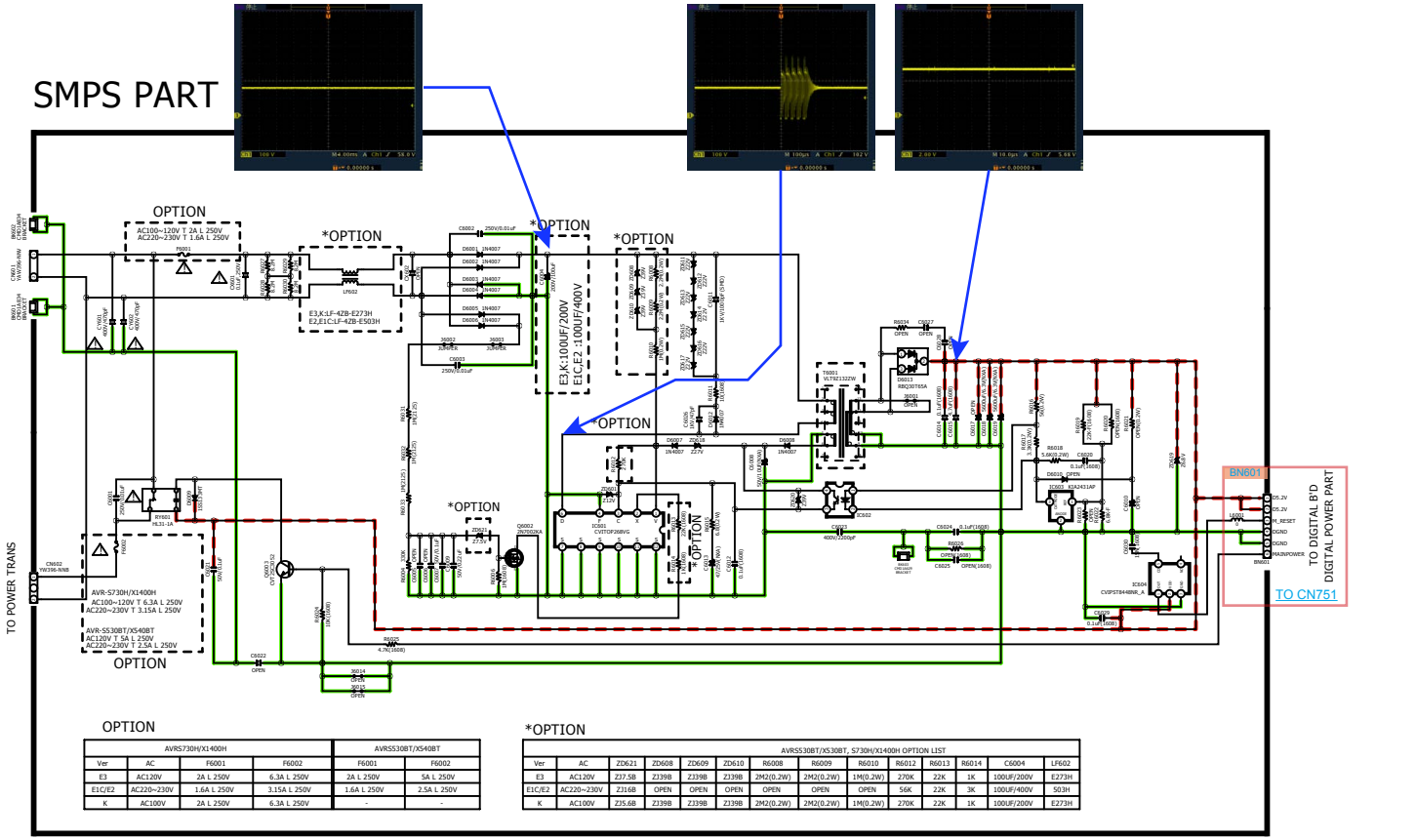


OPTION

AVRS730H/X1400H				AVRSS30BT/X540BT	
Ver	AC	F6001	F6002	F6001	F6002
E3	AC120V	2A L 250V	6.3A L 250V	2A L 250V	5A L 250V
E1C/E2	AC220~230V	1.6A L 250V	3.15A L 250V	1.6A L 250V	2.5A L 250V
K	AC100V	2A L 250V	6.3A L 250V	-	-

*OPTION

AVRSS30BT/X530BT, S730H/X1400H OPTION LIST														
Ver	AC	ZD621	ZD608	ZD609	ZD610	R6008	R6009	R6010	R6012	R6013	R6014	C6004	LF602	
E3	AC120V	Z37.5B	Z39B	Z39B	Z39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K	22K	1K	100UF/200V	E273H	
E1C/E2	AC220~230V	Z31.6B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K	22K	3K	100UF/400V	503H	
K	AC100V	Z35.6B	Z39B	Z39B	Z39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K	22K	1K	100UF/200V	E273H	

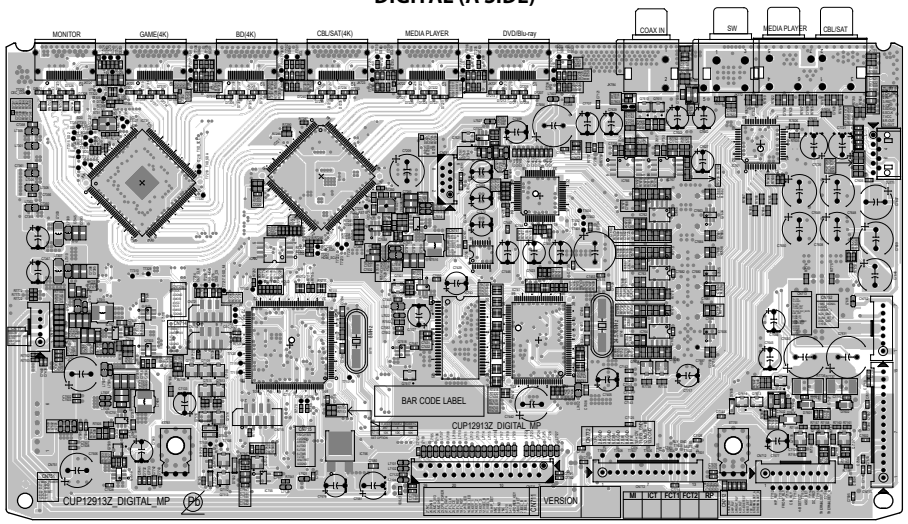
GND LINE POWER+ LINE POWER- LINE AUDIO SIGNAL DIGITAL AUDIO TMDS SIGNAL ANALOG VIDEO STBY POWER

PRINTED CIRCUIT BOARDS

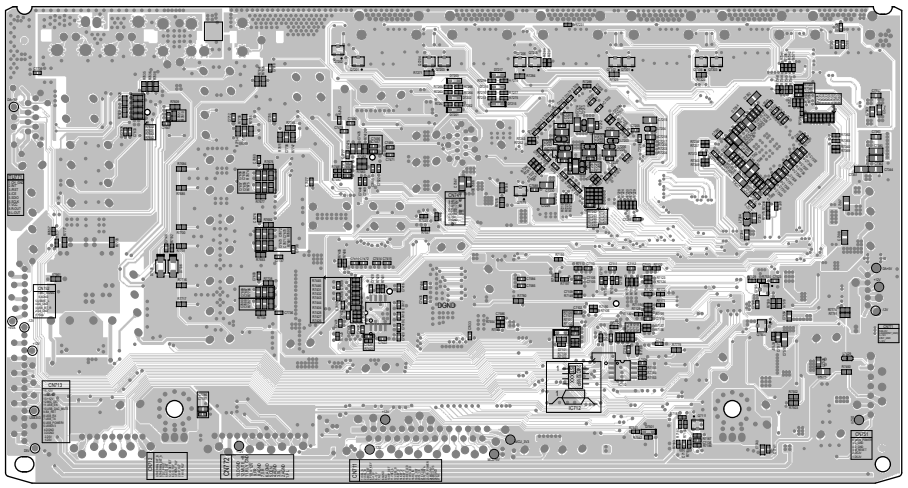
DIGITAL, USB WIRE GUIDE, VIDEO, TUNER, PHONE WIRE GUIDE, FRONT CABLE GUIDE

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

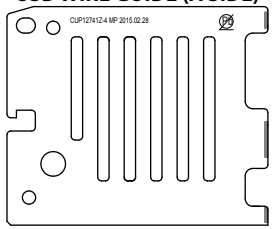
DIGITAL (A SIDE)



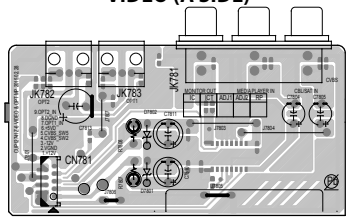
DIGITAL (B SIDE)



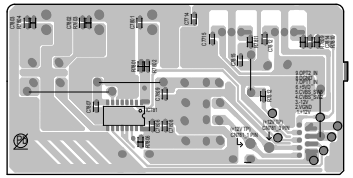
USB WIRE GUIDE (A SIDE)



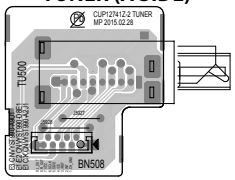
VIDEO (A SIDE)



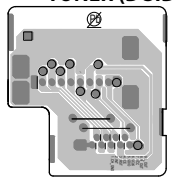
VIDEO (B SIDE)



TUNER (A SIDE)

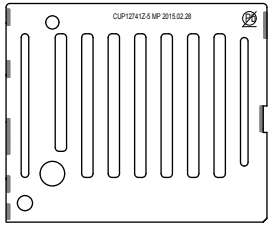


TUNER (B SIDE)

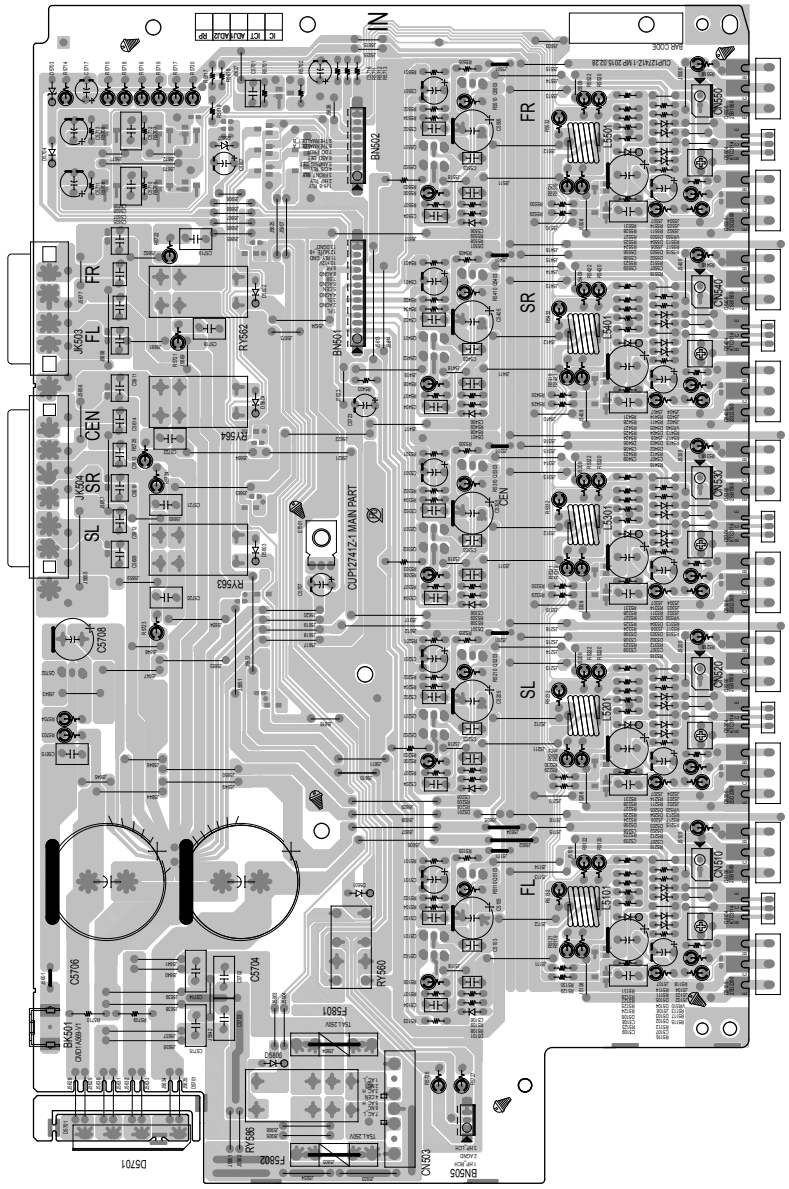


PHONE WIRE GUIDE (A SIDE)

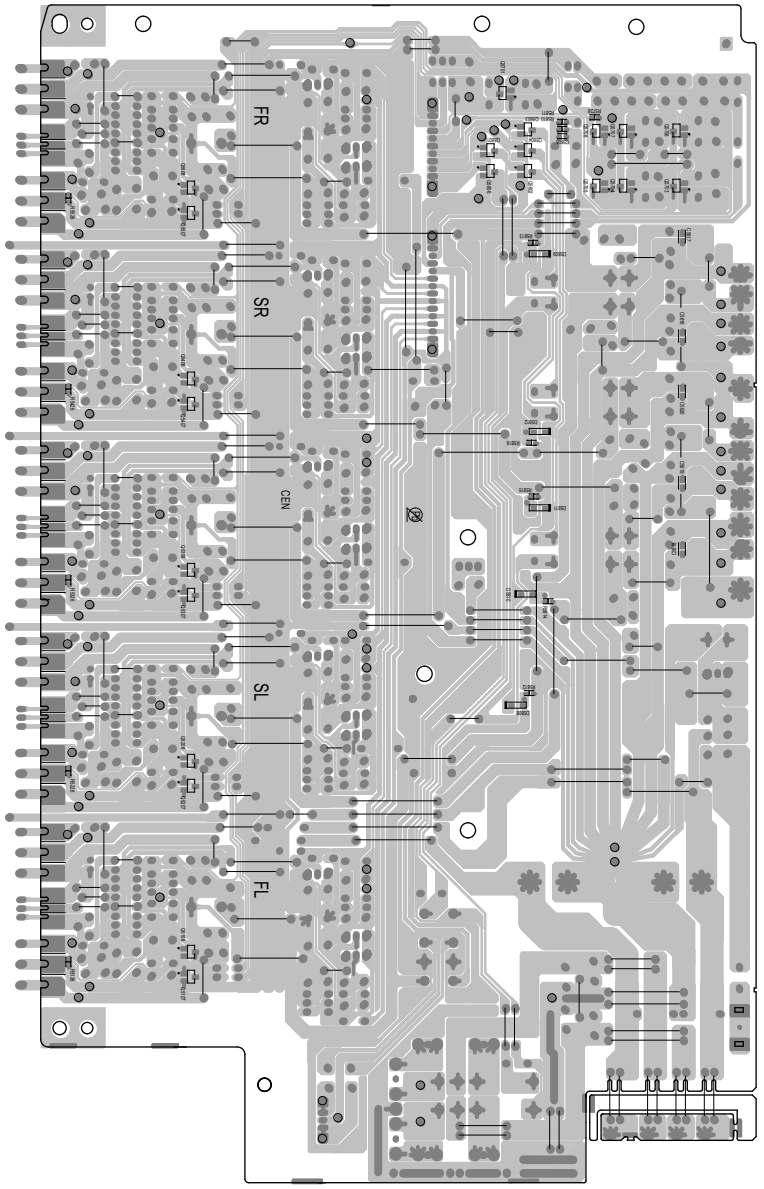
FRONT CABLE GUIDE (A SIDE)



MAIN (A SIDE)

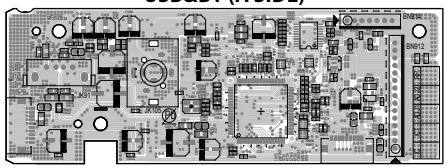


MAIN (A SIDE)

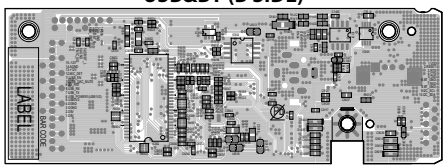


USB&BT, FRONT, PHONE, STANDBY

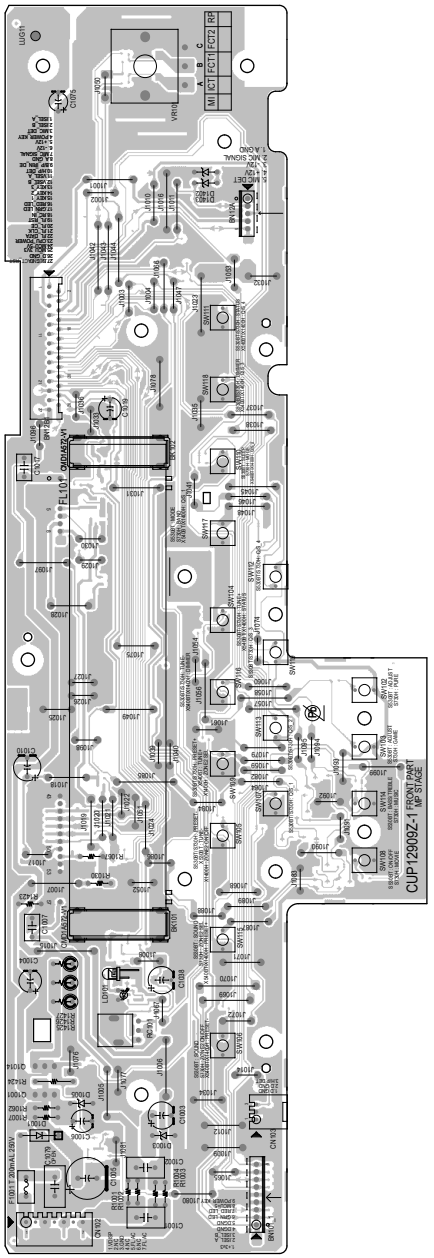
USB&BT (A SIDE)



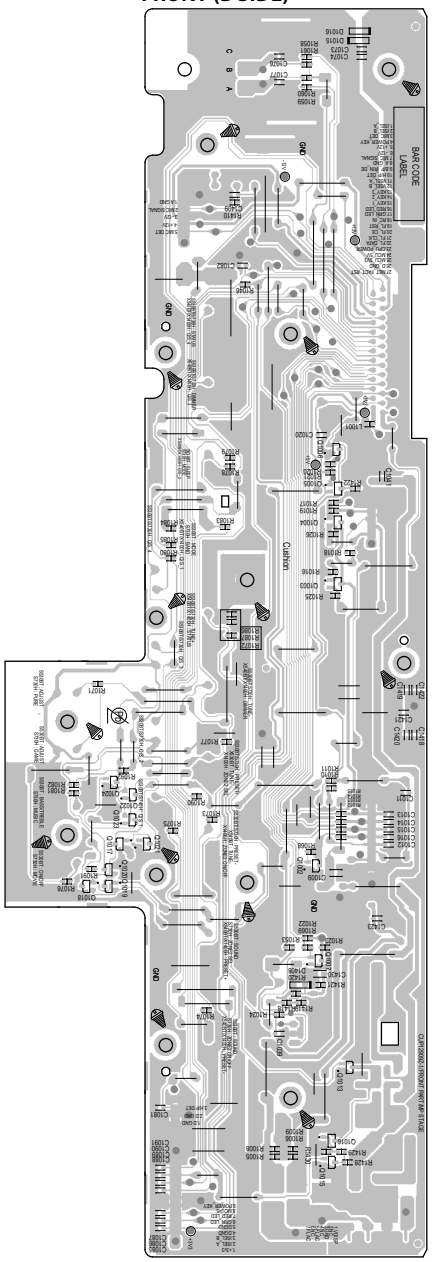
USB&BT (B SIDE)



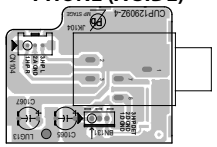
FRONT (A SIDE)



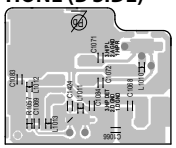
FRONT (B SIDE)



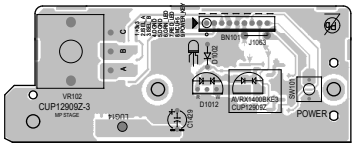
PHONE (A SIDE)



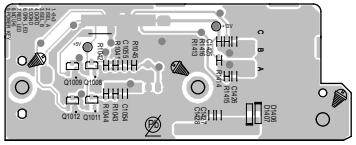
PHONE (B SIDE)



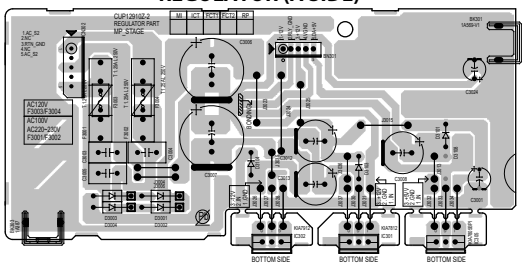
STANDBY (A SIDE)



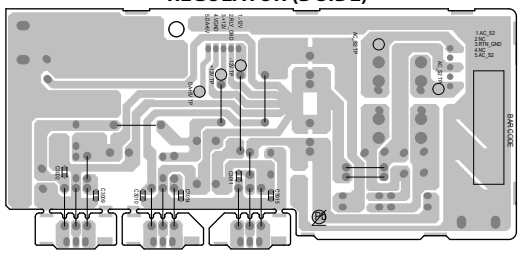
STANDBY (B SIDE)



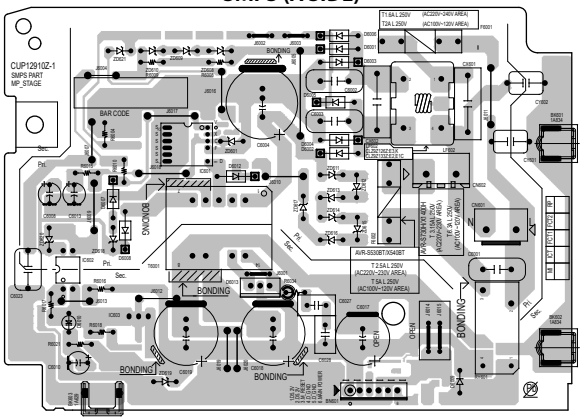
REGULATOR (A SIDE)



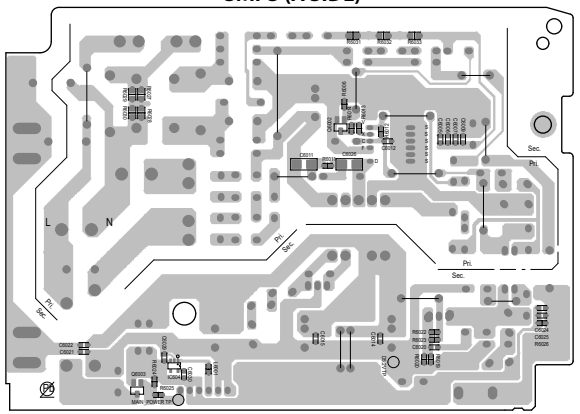
REGULATOR (B SIDE)



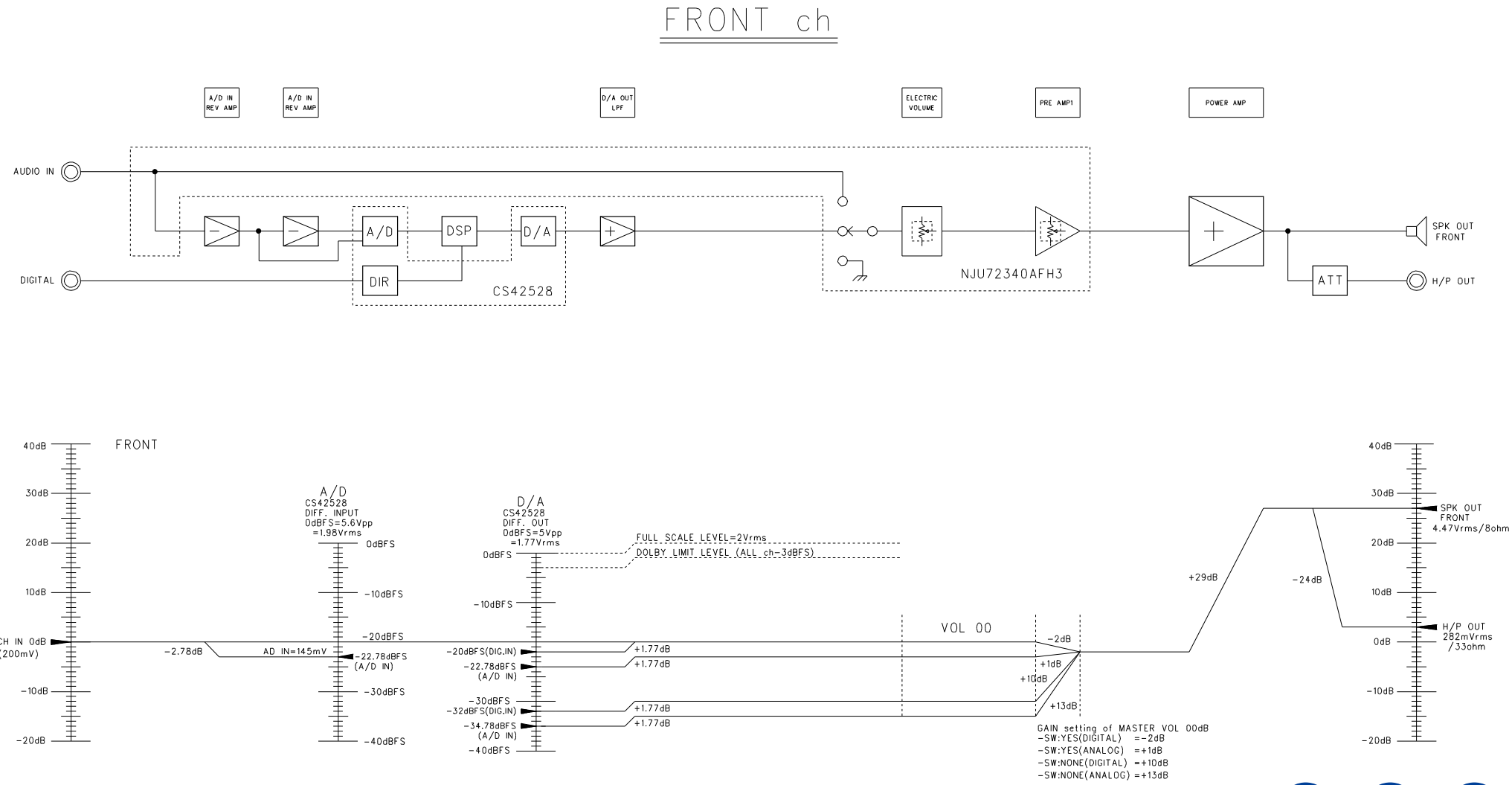
SMPS (A SIDE)



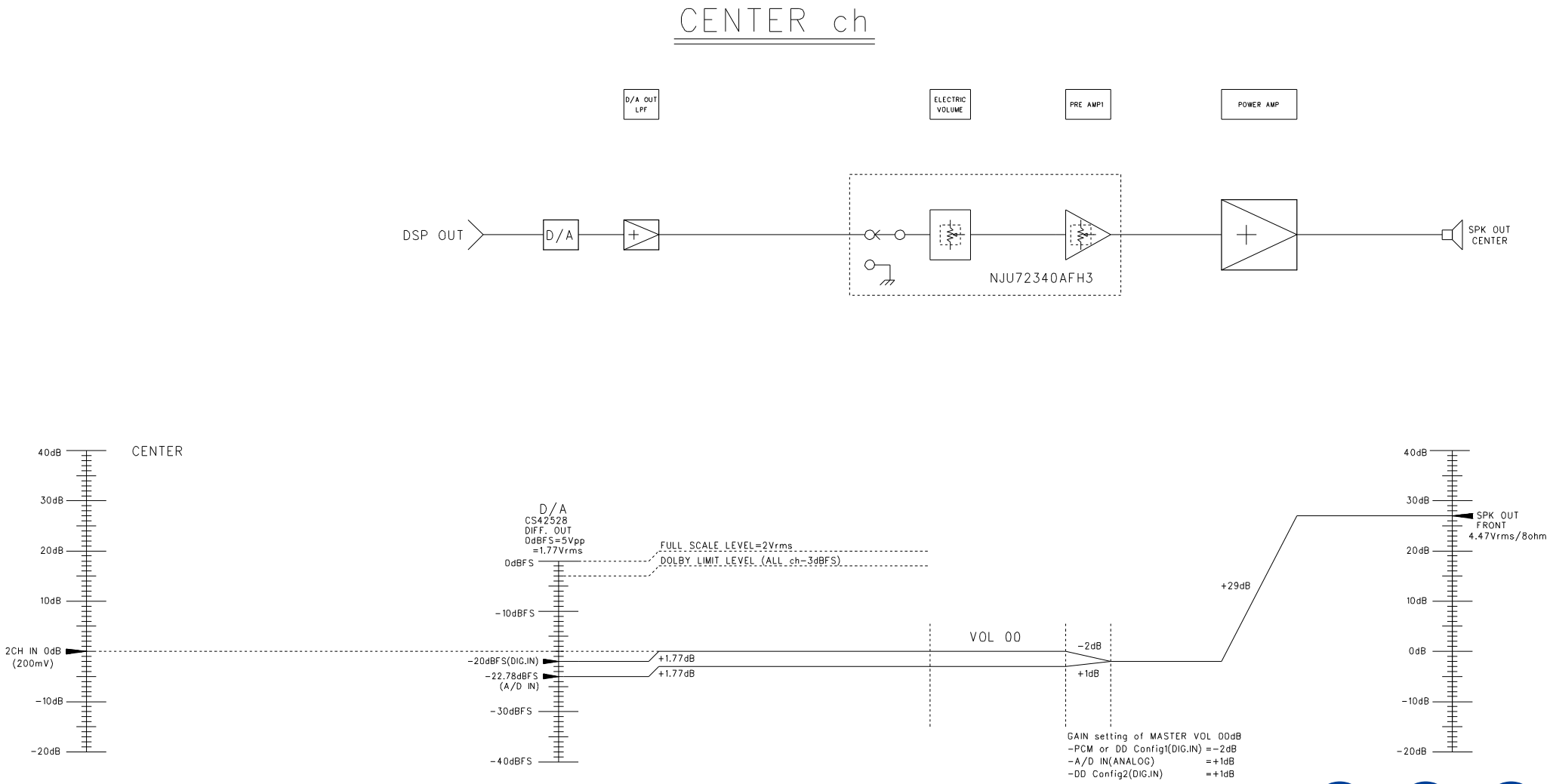
SMPS (A SIDE)



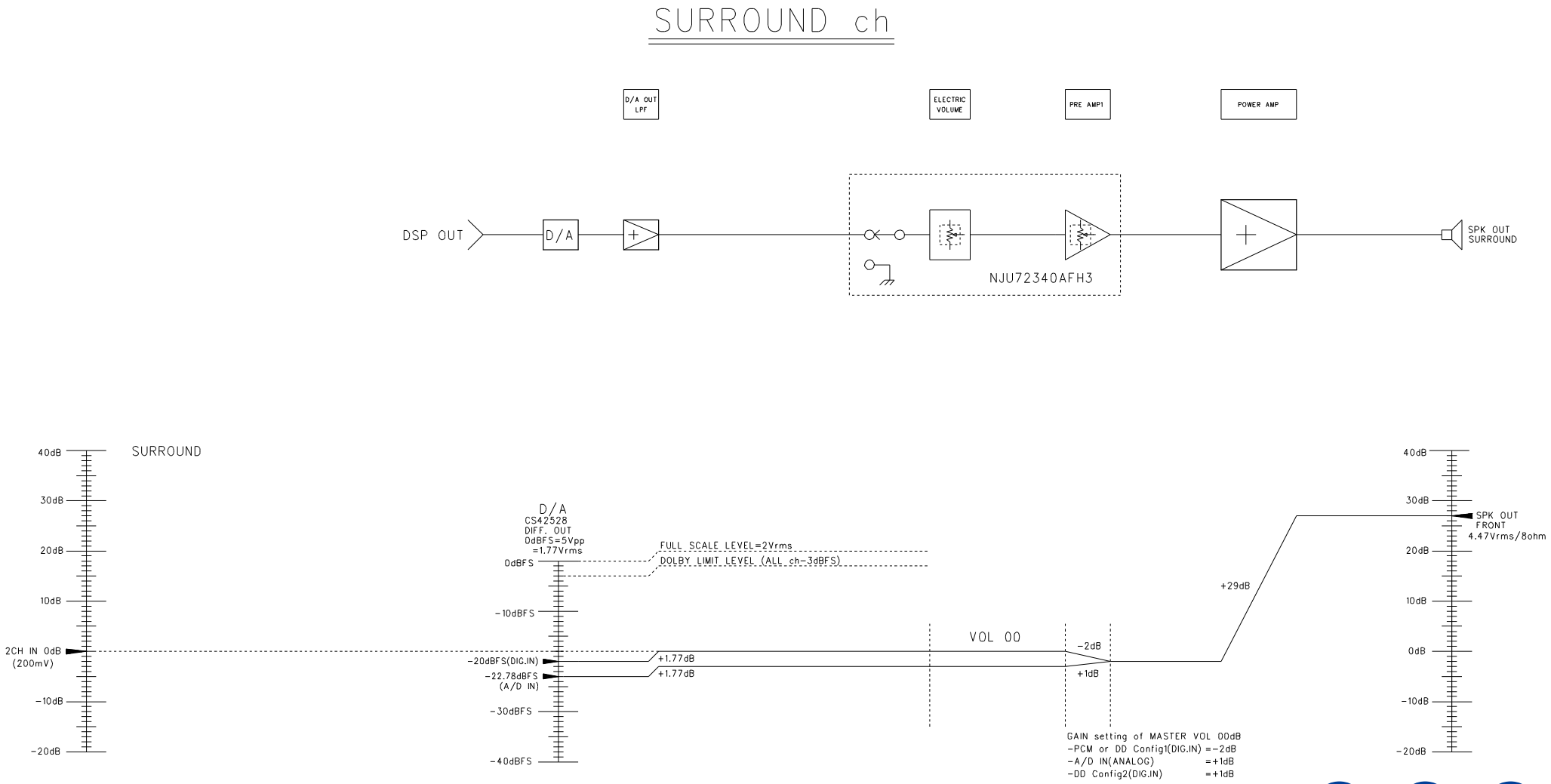
AVR-S530BT / X540BT LEVEL1 DIAGRAM



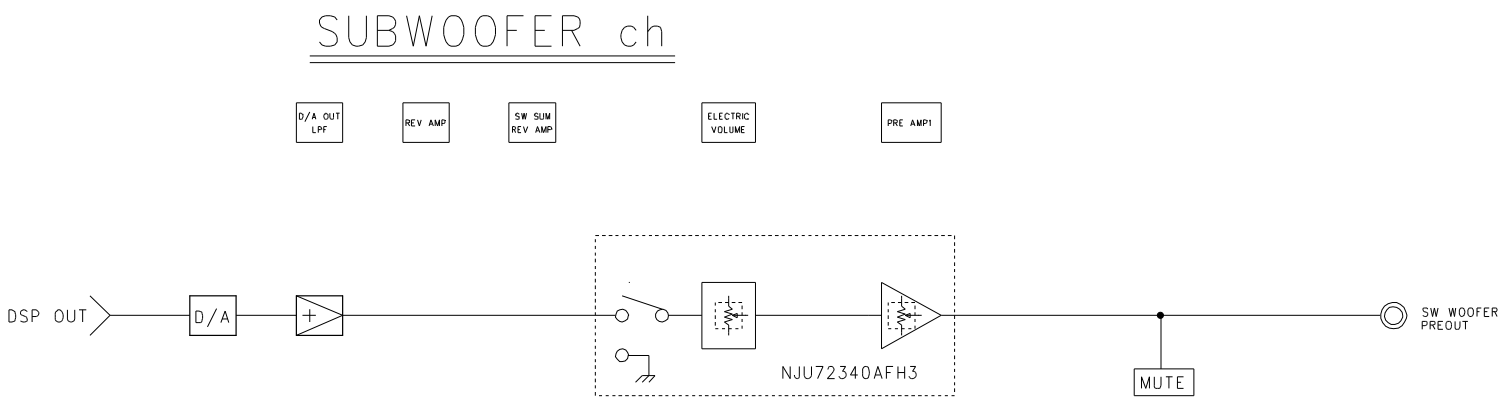
AVR-S530BT / X540BT LEVEL2 DIAGRAM

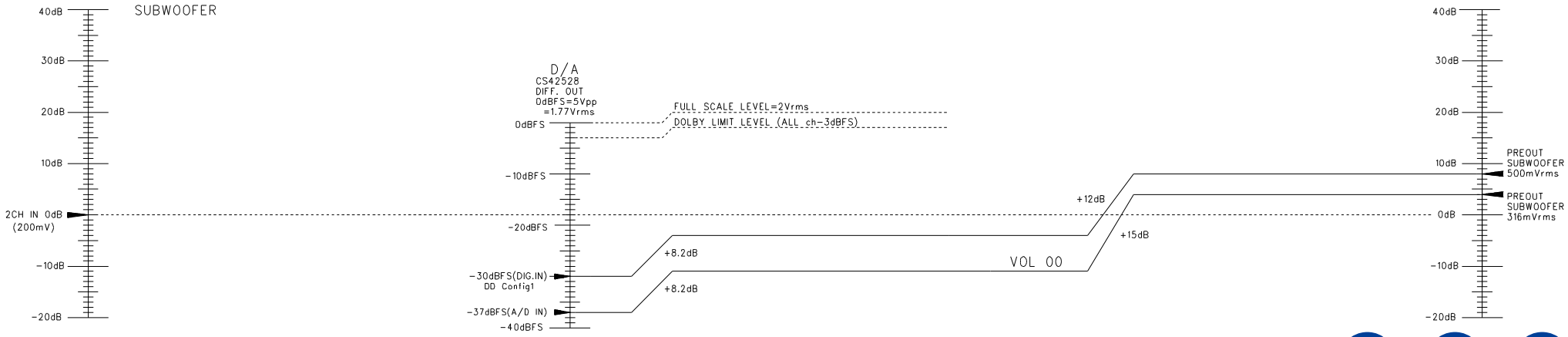


AVR-S530BT / X540BT LEVEL3 DIAGRAM



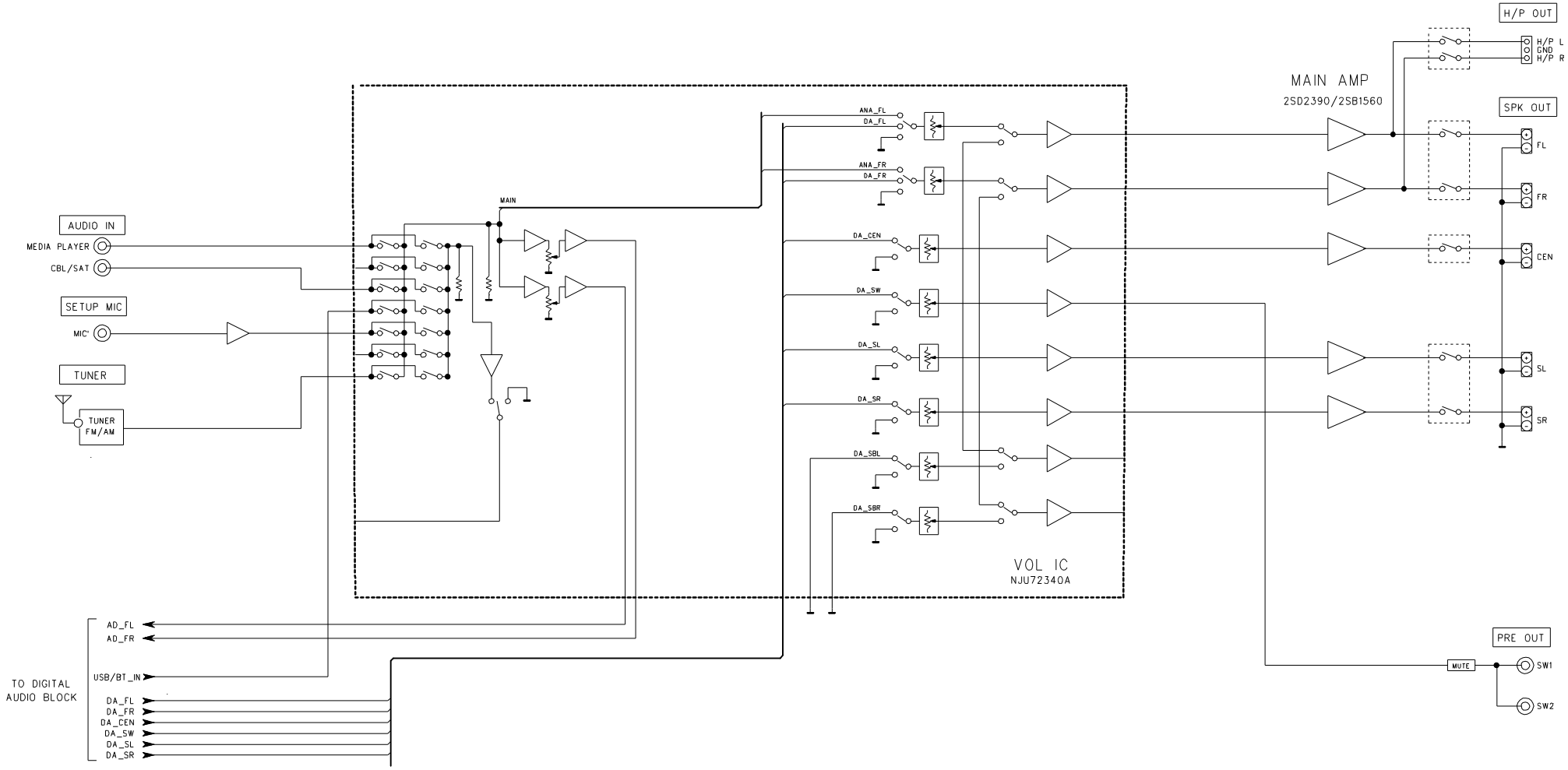
AVR-S530BT / X540BT LEVEL4 DIAGRAM



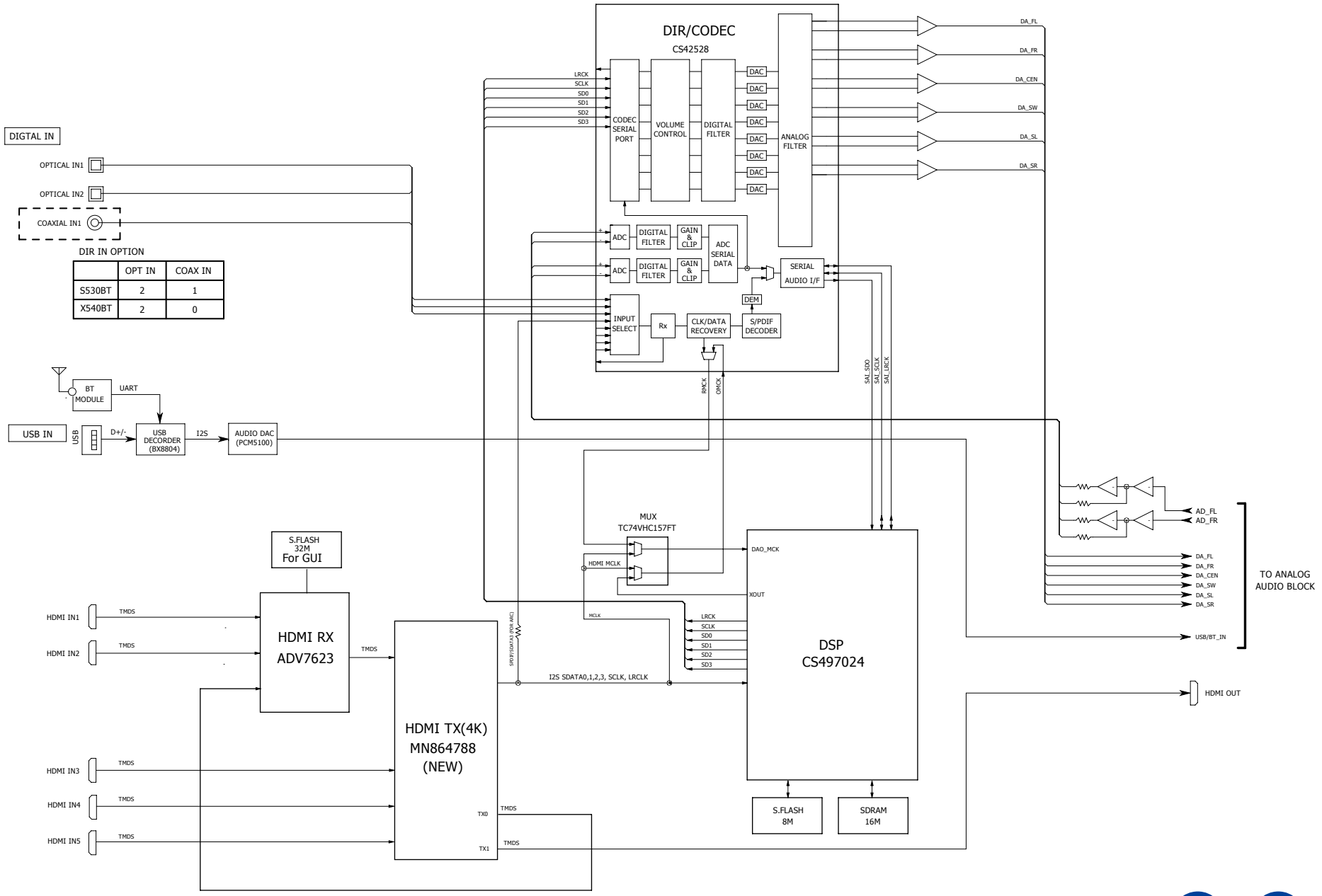


ANALOG AUDIO DIAGRAM

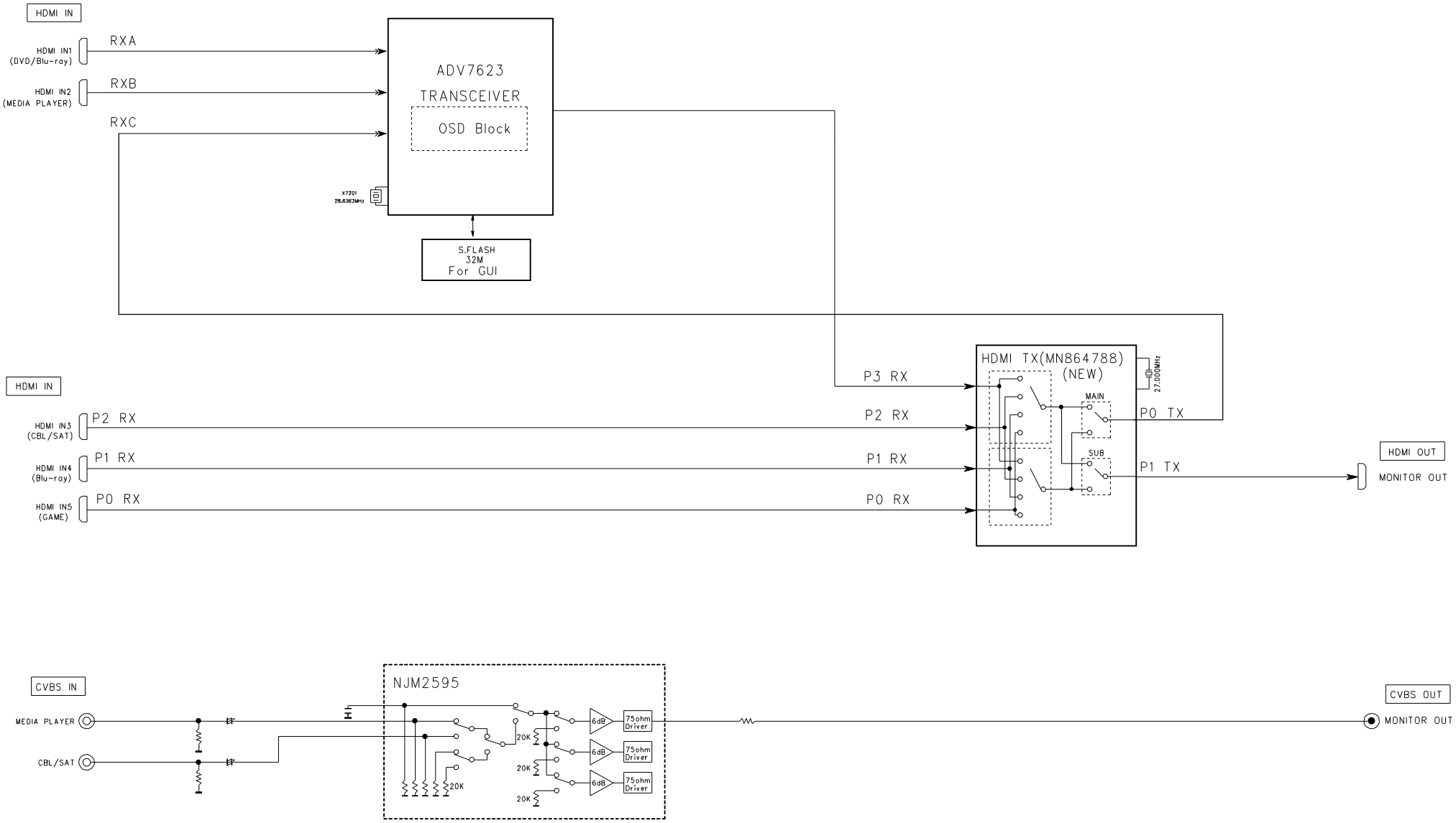
AVR-S530BT / X540BT ANALOG AUDIO DIAGRAM



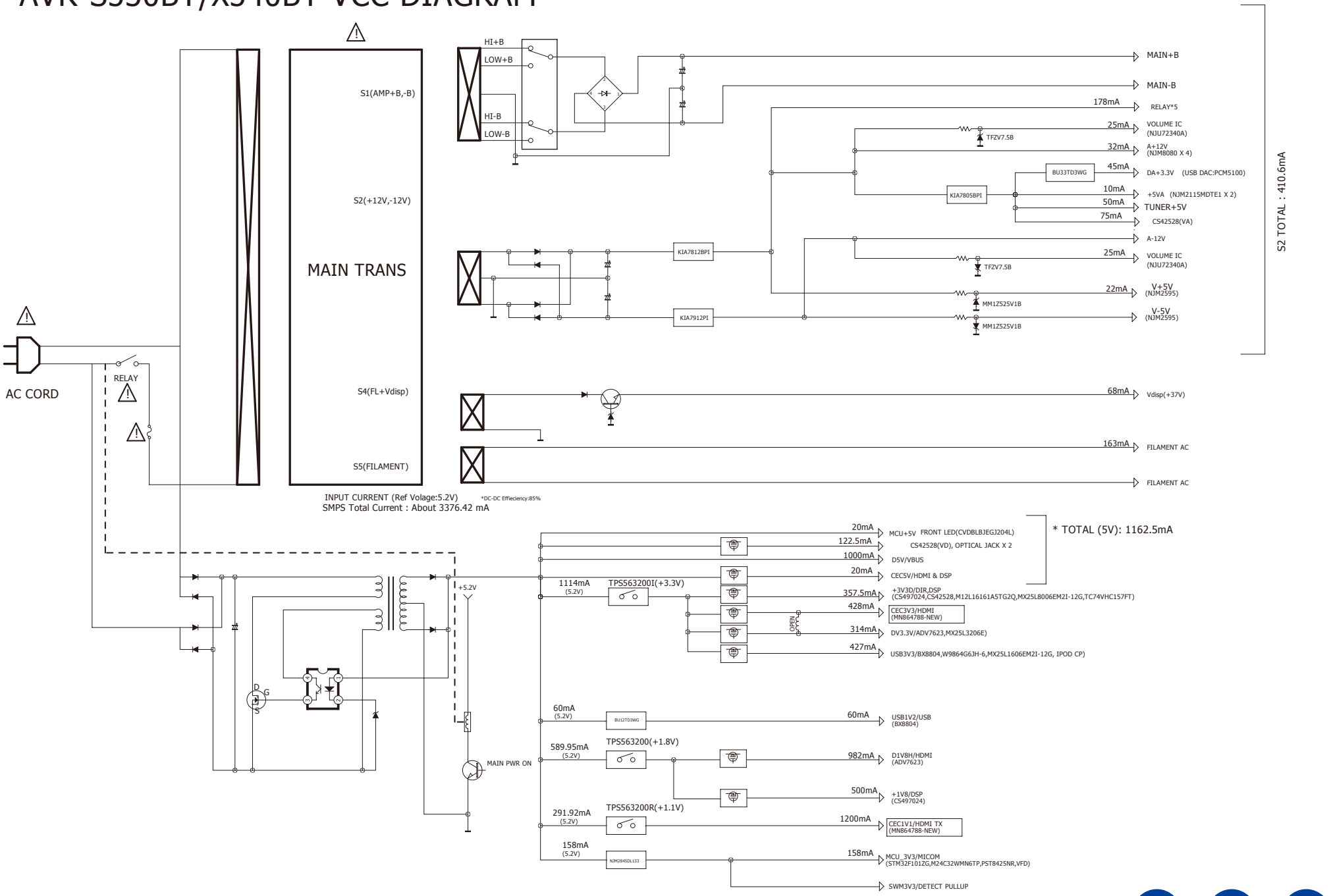
AVR-S530BT/X540BT DIGITAL AUDIO/HDMI BLOCK



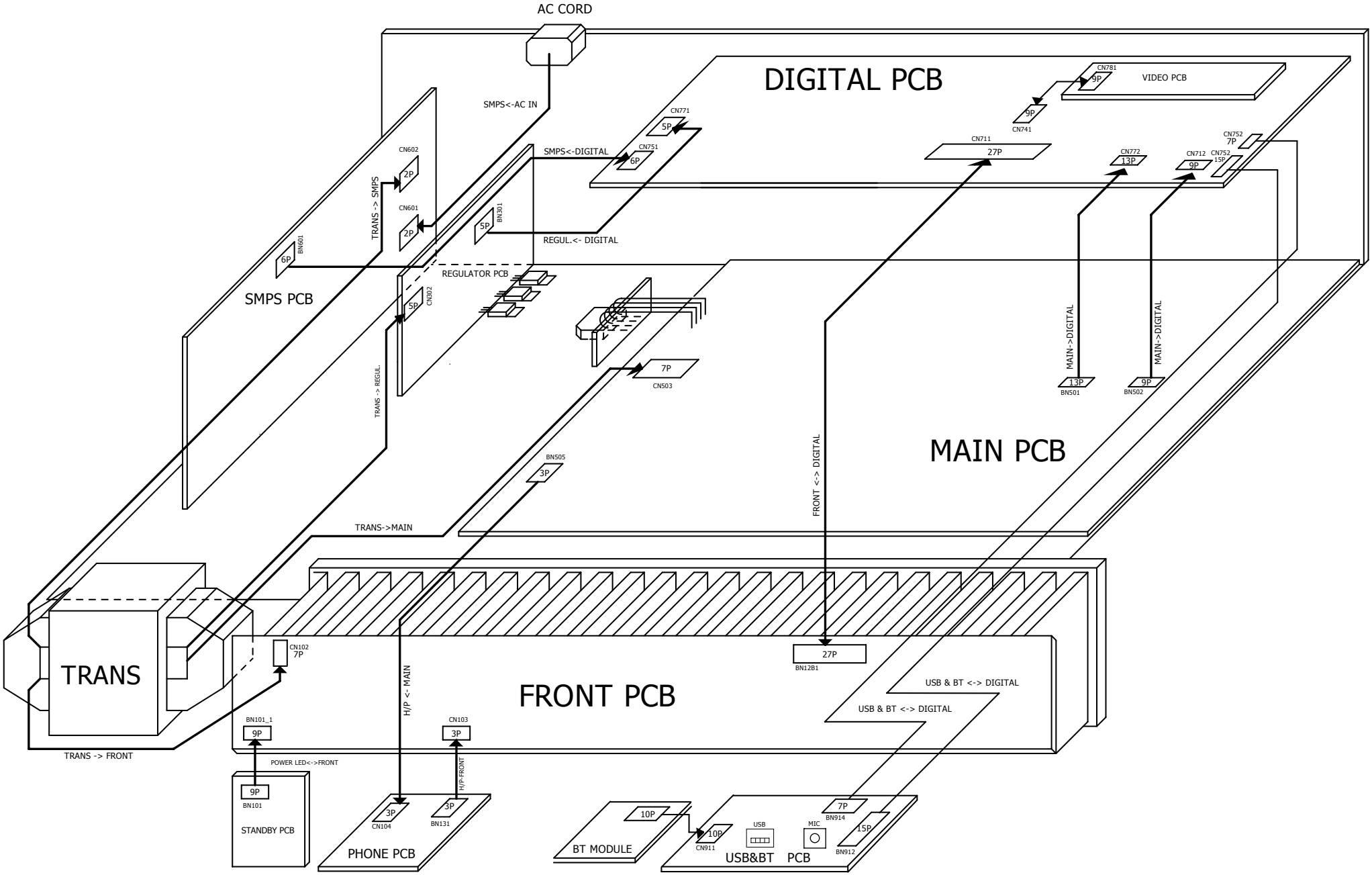
AVR-S530BT / X540BT VIDEO BLOCK



AVR-S530BT/X540BT VCC DIAGRAM



AVR-S530BT/X540BT WIRING DIAGRAM

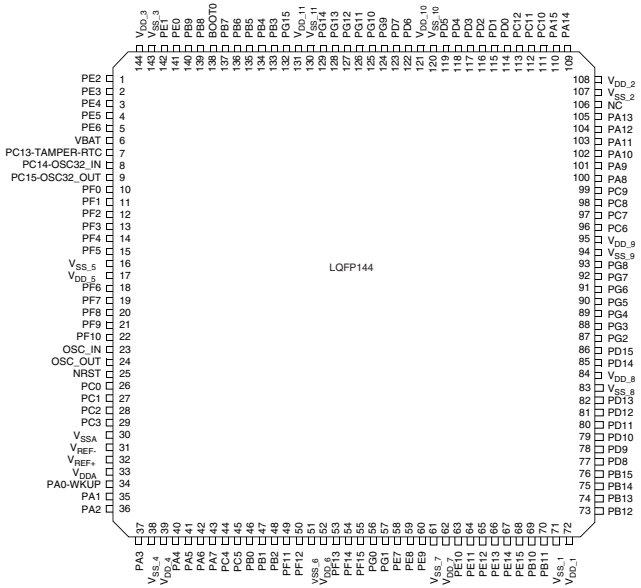


SEMICONDUCTORS

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

1. IC's

STM32F101ZE (DIGITAL : IC711)



STM32F101ZG Terminal Functions

Pin	Pin Name	Symbol	I/O	Pullup	STBY	Pass-Trough	BT STBY	stop	Function
1	PE2	DC_PROTECT	I	M3VPu	I	I	I	I	DC Protection detect
2	PE3	USB_DAC_MUTE	O	-	O/L	O/L	O/L	O/L	USB_DAC_MUTE control
3	PE4	POWER_DOWN	I	M3VPu	I	I	I	I	Power Down detect
4	PE5	FRONT_RLY(SPK_RLY_ON)	O	-	O/L	O/L	O/L	O/L	Front SPK RLY control
5	PE6	C/S_RLY	O	-	O/L	O/L	O/L	O/L	Surround/Center SPK RLY control
6	VBAT	VBAT	-	-	-	-	-	-	3.3V
7	PC13	MIC_DET	I	Pd	I	I	I	I	MIC detect
8	PC14 / OSC32_IN	OSC32_IN	-	-	-	-	-	-	
9	PC15 / OSC32_OUT	OSC32_OUT	-	-	-	-	-	-	
10	PF0	ISEL_B	I	Pu	I	I	I	I	FUNCTION ENDORDER input(A)
11	PF1	ISEL_A	I	Pu	I	I	I	I	FUNCTION ENDORDER input(B)
12	PF2	HI-B_RLY	O	-	O/L	O/L	O/L	O/L	HI-B_RLY control
13	PF3	CVBS_SW2	O	-	O/L	O/L	O/L	O/L	CVBS（Video）SW2 control
14	PF4	CVBS_SW5	O	-	O/L	O/L	O/L	O/L	CVBS（Video）SW5 control
15	PF5	NC	O	-	O/L	O/L	O/L	O/L	NC
16	VSS_5		-	-	-	-	-	-	GND
17	VDD_5		-	-	-	-	-	-	3.3V
18	PF6	NC(DIR INT)	O/L	-	O/L	O/L	O/L	O/L	NC(DIR INT)
19	PF7	USB_EN	O	-	O/L	O/L	O/L	O/L	USB_CURRENT IC control
20	PF8	HPD3	O	-	O/L	O/L	O/L	O/L	HDMI INPUT3 HOT PLUG control
21	PF9	MAIN_VOL_DATA	O	-	O/L	O/L	O/L	O/L	Volume Data
22	PF10	MAIN_VOL_CLK	O	-	O/L	O/L	O/L	O/L	Volume CLK
23	PH0 / OSC_IN	XTAL_IN	I	-	-	-	-	-	8Mhz Xtal
24	PH1 / OSC_OUT	XTAL_OUT	O	-	-	-	-	-	8Mhz Xtal
25	NRST	RESET	I	-	-	-	-	-	RESET
26	PC0	KEY1	I	M3VPu	I	I	I	I	KEY1 input
27	PC1	KEY2	I	M3VPu	I	I	I	I	KEY2 input
28	PC2	KEY3	I	M3VPu	I	I	I	I	KEY3 input
29	PC3	OPTION	I	M3VPu	I	I	I	I	MODEL OPTION
30	VSSA		-	-	-	-	-	-	GND
31	VREF-		-	-	-	-	-	-	GND
32	VREF+		-	-	-	-	-	-	3.3V
33	VDDA		-	-	-	-	-	-	3.3V
34	PA0 / WKUP	NC	O(L)	-	O/L	O/L	O/L	O/L	NC
35	PA1	USB_RESET	O	-	O/L	O/L	O/L	O/L	BX8804(USB DECORDER) RESET control
36	PA2	USB_RX	O	U3VPu	O/L	O/L	O/L	O/L	BX8804(USB DECORDER) RX control
37	PA3	USB_TX	I	U3VPu	I	I	I	I	BX8804(USB DECORDER) TX control
38	VSS_4		-	-	-	-	-	-	GND
39	VDD_4		-	-	-	-	-	-	3.3V
40	PA4	DSP_CS	O	-	O/L	O/L	O/L	O/L	DSP Chip Select
41	PA5	DSP_CLK	O	D3VPu	O/L	O/L	O/L	O/L	DSP_CLK
42	PA6	DSP_MISO	I	D3VPu	I	I	I	I	DSP MISO
43	PA7	DSP_MOSI	O	-	O/L	O/L	O/L	O/L	DSP MOSI
44	PC4	HPD4	O	-	O/L	O/L	O/L	O/L	HDMI INPUT4 HOT PLUG CONTROL
45	PC5	HPD5	O	-	O/L	O/L	O/L	O/L	HDMI INPUT5 HOT PLUG CONTROL
46	PB0	DIR_MISO	I	-	I	I	I	I	DIR_MISO
47	PB1	DIR_CLK	O	-	O/L	O/L	O/L	O/L	DIR_CLK(separated from AVR1312 DSP_CLK)
48	PB2 / BOOT1	BOOT1	I	-	-	-	-	-	GND
49	PF11	DIR_MOSI	O	-	O/L	O/L	O/L	O/L	DIR MOSI(separated from AVR1312 DSP_MOSI)
50	PF12	DSP_RST	O	-	O/L	O/L	O/L	O/L	DSP Reset control
51	VSS_6		-	-	-	-	-	-	GND
52	VDD_6		-	-	-	-	-	-	3.3V
53	PF13	DSP_MODE_SEL	I/O	Pull-Down	O/L	O/L	O/L	O/L	DSP_MODE_SEL
54	PF14	CODEC_MUTE	I(FT)	-	O/L	O/L	O/L	O/L	CODEC Mute Detect (*FT = 5V tolerant)
55	PF15	DIR_RST	O	-	O/L	O/L	O/L	O/L	DIR Reset
56	PG0	DIR_CE	O	-	O/L	O/L	O/L	O/L	DIR Chip Select
57	PG1	DSP_SPC1_IRQ	I	D3VPu	I	I	I	I	DSP INTERRRUPTQ
58	PE7	DSP_PCP_BSY	I	D3VPu	I	I	I	I	DSP BSY
59	PE8	CEC_POWER	O	-	L	H	L	O/L	CEC_POWER TIMING control
60	PE9	HDMI_SW	O	-	O/L	O/L	O/L	O/L	HDMI Audio Data MCLK Select SW
61	VSS_7		-	-	-	-	-	-	GND
62	VDD_7		-	-	-	-	-	-	3.3V
63	PE10	DV5_POWER	O	-	O/L	H	H	O/L	DV5_POWER TIMING control
64	PE11	HDMI_SPI_MISO	I	-	I	I	I	I	HDMI OSD DATA input
65	PE12	HDMI_SPI_MOSI	O	-	O/L	O/L	O/L	O/L	HDMI OSD DATA output
66	PE13	HDMI_SPI_CS	O	+3VHPu	O/L	O/L	O/L	O/L	HDMI OSD Chip Select
67	PE14	HDMI_SPI_CLK	O	-	O/L	O/L	O/L	O/L	HDMI OSD Clock
68	PE15	HDMI_SPI_HOLD	O	-	O/L	O/L	O/L	O/L	HDMI OSD HOLD
69	PB10	HDMI_RST	O	-	O/L	O/L	O/L	O/L	ADV7623_Reset control
70	PB11	TEST PORT#2	I/O	-	-	-	-	-	TEST PORT#2(FOR SOFT DEBUG)
71	VSS_1		-	-	-	-	-	-	GND

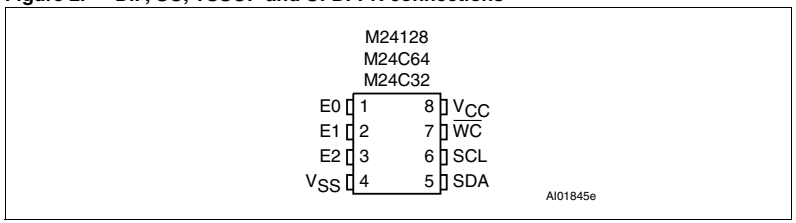
Pin	Pin Name	Symbol	I/O	Pullup	STBY	Pass-Trough	BT STBY	stop	Function
72	VDD_1		-	-	-	-	-	-	3.3V
73	PB12	DA_POWER	O	-	L	L	L	O/L	DA_POWER TIMING control
74	PB13	USB_POWER1	O	-	O/L	O/L	H	O/L	USB_POWER1(1.2V) TIMING control
75	PB14	HDMI_INT_TX_7623	I	+3VHPu	I	I	I	I	HDMI INT TX interrupt
76	PB15	USB_POWER2	O	-	O/L	O/L	H	O/L	USB_POWER2(3.3V) TIMING control
77	PD8	TEST PORT#3	I/O	-	O/L	O/L	O/L	O/L	TEST PORT#3(FOR SOFT DEBUG)
78	PD9	NC	O(L)	-	-	-	-	-	
79	PD10	CEC_OUT	O	-	O/L	O/L	O/L	O/L	CEC MODE control
80	PD11	HDMI_INT	I	+3VHPu	I	I	I	I	HDMI INT interrupt
81	PD12	HDMI_INT2	I	+3VHPu	I	I	I	I	HDMI INT2 intreeupt
82	PD13	HDMI_SDA	I/O	+3VHPu	O/L	O/L	O/L	O/L	HDMI SDATA
83	VSS_8		-	-	-	-	-	-	GND
84	VDD_8		-	-	-	-	-	-	3.3V
85	PD14	HDMI_SCL	O	-	O/L	O/L	O/L	O/L	HDMI SCL
86	PD15	PWR_FAIL_PROTECT	I	M3VPu	I	I	I	I	+12V/-12V CHECK PROTECTION
87	PG2	THERMALDET_B	I	M3VPu	I	I	I	I	TEMPERATURE PROTECTION
88	PG3	THERMALDET_A	I	M3VPu	I	I	I	I	TEMPERATURE PROTECTION
89	PG4	ASO_DET	I	M3VPu	I	I	I	I	ASO_DETECT
90	PG5	MAIN_POWER	O	-	O/L	O/L	O/L	O/L	POWER RELAY control
91	PG6	CPU_POWER	O	-	O/L	O/L	O/L	O/L	MCU POWER PULL UP SWITCHING
92	PG7	VOL+	I	Pu	I	I	I	I	VOLUME UP
93	PG8	VOL-	I	Pu	I	I	I	I	VOLUME DOWN
94	VSS_9		-	-	-	-	-	-	GND
95	VDD_9		-	-	-	-	-	-	3.3V
96	PC6	NC	O(L)	-	-	-	-	-	NC
97	PC7	VFD_CE	O	-	O/L	O/L	O/L	O/L	VFD_CE
98	PC8	VFD_CLK	O	-	O/L	O/L	O/L	O/L	VFD_CLK
99	PC9	NC	O(L)	-	-	-	-	-	NC
100	PA8	VFD_DATA	O	-	O/L	O/L	O/L	O/L	VFD_DATA
101	PA9	UPDATE_TX	-	M3VPu	-	-	-	-	UPDATE TX
102	PA10	UPDATE_RX	-	M3VPu	-	-	-	-	UPDATE RX
103	PA11	NC	O(L)	-	-	-	-	-	NC
104	PA12	NC(MN864788_HAINT0)	I	CE-C3VPu	I	I	I	I	NC(MN864788_HDMI AUDIO INTERRUPT0)
105	PA13	DEBUG	I	-	-	-	-	-	JTMS / SWDIO
106	PCAP_2		-	-	-	-	-	-	Not Connected
107	VSS_2		-	-	-	-	-	-	GND
108	VDD_2		-	-	-	-	-	-	3.3V
109	PA14	DEBUG	I	-	-	-	-	-	JTCK / SWCLK
110	PA15	DEBUG	I	-	-	-	-	-	JTDI
111	PC10	MN864788_HINT	I	CE-C3VPu	I	I	I	I	MN864788_HDMI INTERRUPT
112	PC11	MN864788_HAINT1	I	CE-C3VPu	I	I	I	I	MN864788_HDMI AUDIO INTERRUPT1
113	PC12	NC	O(L)	-	-	-	-	-	NC
114	PD0	VFD_RST	O	-	O/L	O/L	O/L	O/L	VFD_RESET(Low Active)
115	PD1	HP_RLY	O	-	O/L	O/L	O/L	O/L	H/P RLY control
116	PD2	NC	O(L)	-	-	-	-	-	NC
117	PD3	WAKE_UP	I	M3VPu	I	I	I	I	WAKE UP
118	PD4	HP_DET	I	Pu	I	I	I	I	H/P DETECT
119	PD5	GRN_LED	O	-	O/L	O/L	O/L	O/L	2COLOR LED GREEN
120	VSS_10		-	-	-	-	-	-	GND
121	VDD_10		-	-	-	-	-	-	3.3V
122	PD6	MN864788_SCL	O	CE-C3VPu	-	-	O/L	O/L	MN864788_I2C_SCL
123	PD7	REMOTE_IN	I	M3VPu	I	I	I	I	REMOTE input(invert as AVR1312)
124	PG9	MN864788_SDA	I/O	CE-C3VPu	-	I/O	-	O/L	MN864788_I2C_SDA
125	PG10	EEPROM_SDA	I/O	M3VPu	O/L	O/L	O/L	O/L	EEPROM SDA

Pin	Pin Name	Symbol	I/O	Pullup	STBY	Pass-Trough	BT STBY	stop	Function
126	PG11	EEPROM_SCL	O	M3VPu	O/L	O/L	O/L	O/L	EEPROM SCL
127	PG12	NC(DAC_MUTE)	O	-	O/L	O/L	O/L	O/L	NC(DAC Mute control)
128	PG13	TUNER_SCLK	O	-	O/L	O/L	O/L	O/L	TUNER SCLK
129	PG14	TUNER_SDIO	I/O	-	O/L	O/L	O/L	O/L	TUNER SDIO
130	VSS_11		-	-	-	-	-	-	GND
131	VDD_11		-	-	-	-	-	-	3.3V
132	PG15	MN864788_RST	O	-	O/L	O/L	O/L	O/L	MN864788_RESET
133	PB3	DEBUG	O	-	-	-	-	-	JTDO / TRACESWO
134	PB4	DEBUG	I	-	-	-	-	-	NJTRST
135	PB5	SUB MUTE	O	-	O/L	O/L	O/L	O/L	Sub Woofer MUTE
136	PB6	CEC_CTL	I	-	I	I	I	I	CEC IN_CEC_CTL1
137	PB7	NC	O(L)	-	-	-	-	-	NC
138	BOOT0	BOOT0	I	Pd	I	I	I	I	UPDATE BOOT(High:Update/Low:Normal)
139	PB8	TUNER_CE	O	-	O/L	O/L	O/L	O/L	TUNER CE
140	PB9	TUNER_INT	I	-	I	I	I	I	TUNER INTERRUPT
141	PE0	TUNER_RST	O	-	O/L	O/L	O/L	O/L	TUNER Reset control
142	PE1	RED_LED	O	-	O/L	H	H	O/L	2COLOR LED RED
143	VSS_3		-	-	-	-	-	-	GND
144	VDD_3		-	-	-	-	-	-	3.3V

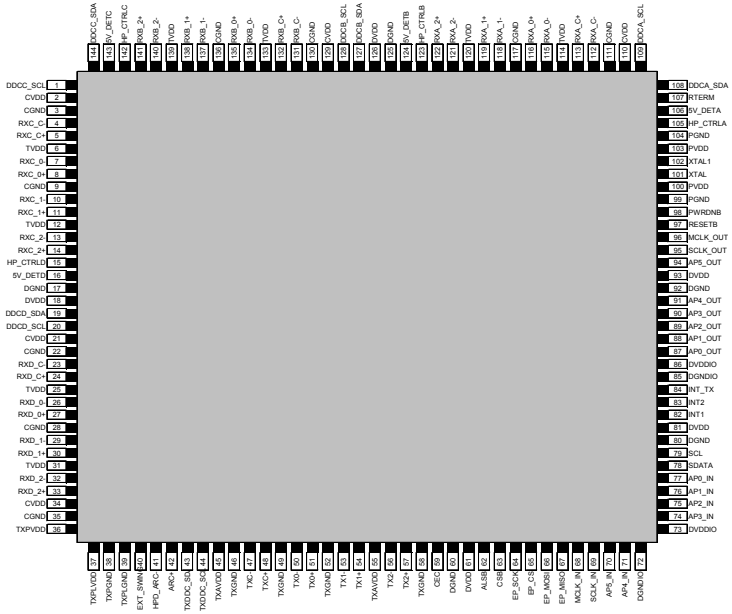
M24C32WMN6TP (DIGITAL : IC712)

Signal name	Function	Direction
E0, E1, E2	Chip Enable	Input
SDA	Serial Data	I/O
SCL	Serial Clock	Input
WC	Write Control	Input
V_{CC}	Supply voltage	
V_{SS}	Ground	

Figure 2. DIP, SO, TSSOP and UFDFPN connections



ADV7623 (DIGITAL : IC721)



Terminal Functions

Location	Mnemonic	Type	Description
1	DDCC_SCL	Digital Input	HDCP slave serial clock port C. DDCC_SCL is a 3.3 V input that is 5 V tolerant.
2	CVDD	Power	Receiver comparator supply voltage (1.8V)
3	CGND	Ground	TVDD and CVDD Ground
4	RXC_C-	HDMI Input	Digital input clock Complement of port C in the HDMI interface.
5	RXC_C+	HDMI Input	Digital input clock True of port C in the HDMI interface.
6	TVDD	Power	Receiver terminator supply voltage (3.3 V)
7	RXC_0-	HDMI Input	Digital input channel 0 Complement of port C in the HDMI interface.
8	RXC_0+	HDMI Input	Digital input channel 0 True of port C in the HDMI interface.
9	CGND	Ground	TVDD and CVDD Ground
10	RXC_1-	HDMI Input	Digital input channel 1 Complement of port C in the HDMI interface.
11	RXC_1+	HDMI Input	Digital input channel 1 True of port C in the HDMI interface.
12	TVDD	Power	Receiver terminator supply voltage (3.3 V)
13	RXC_2-	HDMI Input	Digital input channel 2 Complement of port C in the HDMI interface.
14	RXC_2+	HDMI Input	Digital input channel 2 True of port C in the HDMI interface.
15	HP_CTRLD	Digital Output	Hot Plug Detect for Port D.
16	5V_DETD	Digital Input	5 V detect pin for port D in the HDMI interface.
17	DGND	Ground	Ground for DVDD
18	DVDD	Power	Digital supply voltage (1.8 V)
19	DDCD_SDA	Digital I/O	HDCP slave serial data ports D. DDCD_SDA is a 3.3 V input/output that is 5 V tolerant.
20	DDCD_SCL	Digital Input	HDCP slave serial clock port D. DDCD_SCL is a 3.3 V input that is 5 V tolerant.
21	CVDD	Power	Receiver comparator supply voltage (1.8V)
22	CGND	Ground	TVDD and CVDD Ground
23	RXD_C-	HDMI Input	Digital input clock Complement of port D in the HDMI interface.
24	RXD_C+	HDMI Input	Digital input clock True of port D in the HDMI interface.
25	TVDD	Power	Receiver terminator supply voltage (3.3 V)
26	RXD_0-	HDMI Input	Digital input channel 0 Complement of port

Location	Mnemonic	Type	Description
			D in the HDMI interface.
27	RXD_0+	HDMI Input	Digital input channel 0 True of port D in the HDMI interface.
28	CGND	Ground	TVDD and CVDD Ground
29	RXD_1-	HDMI Input	Digital input channel 1 complement of port D in the HDMI interface.
30	RXD_1+	HDMI Input	Digital input channel 1 true of port D in the HDMI interface.
31	TVDD	Power	Receiver terminator supply voltage (3.3 V)
32	RXD_2-	HDMI Input	Digital input channel 2 complement of port D in the HDMI interface.
33	RXD_2+	HDMI Input	Digital input channel 2 true of port D in the HDMI interface.
34	CVDD	Power	Receiver comparator supply voltage (1.8V)
35	CGND	Ground	TVDD and CVDD Ground
36	TXPVDD	Power	1.8 V Power Supply for Digital and I/O Power Supply. These pins supply power to the digital logic and I/Os. They should be filtered and as quiet as possible.
37	TXPLVDD	Power	1.8 V Power Supply.
38	TXGND	Ground	TXPVDD Ground
39	TXPGND	Ground	TXPLVDD Ground
40	EXT_SWING	Analog Input	Sets Internal Reference Currents. Place 887 Ω resistor (1% tolerance) between this pin and ground.
41	HPD_ARC-	Analog Input	Hot Plug Detect Signal. This indicates to the interface whether the receiver is connected. Supports 1.8 V to 5.0V CMOS logic levels.
42	ARC+	Analog Input	Audio return channel input
43	TXDDC_SDA	Digital I/O	Serial Port Data I/O to Receiver. This pin serves as the master to the DDC bus. Supports a 5 V CMOS logic level.
44	TXDDC_SCL	Digital Input	Serial Port Data Clock to Receiver. This pin serves as the master clock for the DDC bus. Supports a 5 V CMOS logic level.
45	TXAVDD	Power	1.8V power supply for TMDS outputs
46	TXGND	Ground	TXAVDD Ground
47	TXC-	HDMI Output	Differential Clock Output. Differential clock output at the TMDS clock rate; supports TMDS logic level.
48	TXC+	HDMI Output	Differential Clock Output. Differential clock output at the TMDS clock rate; supports TMDS logic level.

Location	Mnemonic	Type	Description
49	TXGND	Ground	TXAVDD Ground
50	TX0-	HDMI Output	Differential Output Channel 0 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
51	TX0+	HDMI Output	Differential Output Channel 0 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
52	TXGND	Ground	TXAVDD Ground
53	TX1-	HDMI Output	Differential Output Channel 1 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
54	TX1+	HDMI Output	Differential Output Channel 1 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
55	TXAVDD	Power	1.8V power supply for TMDS outputs
56	TX2-	HDMI Output	Differential Output Channel 2 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
57	TX2+	HDMI Output	Differential Output Channel 2 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
58	TXGND	Ground	TXAVDD Ground
59	CEC	Digital I/O	Consumer electronic control channel.
60	DGND	Ground	Ground for DVDD
61	DVDD	Power	Digital supply voltage (1.8 V)
62	ALSB	Digital Input	This pin is used to set I2C address of the Rx IO and the Tx Main Map.
63	CSB	Digital Input	Chip Select pin. This pin must be set low or left floating for the chip to process I2C messages that are destined to the ADV7623. The ADV7623 ignores I2C messages which he receives if this pin is high.
64	EP_SCK	Digital Output	SPI clock interface for the EDID/OSD
65	EP_CS	Digital Output	SPI chip selected interface for the EDID/OSD
66	EP_MOSI	Digital Output	SPI master out/slave in for the EDID/OSD
67	EP_MISO	Digital Input	SPI master in/slave out for the EDID/OSD

Location	Mnemonic	Type	Description
68	MCLK_IN	Digital Input	Audio Reference Clock. 128 × N × fs with N = 1, 2, 3, or 4. Set to 128 × sampling frequency (fs), 256 × fs, 384 × fs, or 512 × fs. Supports 1.8 V to 3.3 V CMOS logic levels.
69	SCLK_IN	Digital Input	I2S Audio Clock. Supports CMOS logic levels from 1.8 V to 3.3 V.
70	AP5_IN	Digital Input	Audio Input Port 5. CMOS logic levels from 1.8 V to 3.3 V.
71	AP4_IN	Digital Input	Audio Input Port 4. CMOS logic levels from 1.8 V to 3.3 V.
72	DGNDIO	Ground	Ground for DVDDIO
73	DVDDIO	Power	Digital I/O supply voltage (3.3 V)
74	AP3_IN	Digital Input	Audio Input Port 3. CMOS logic levels from 1.8 V to 3.3 V.
75	AP2_IN	Digital Input	Audio Input Port 2. CMOS logic levels from 1.8 V to 3.3 V.
76	AP1_IN	Digital Input	Audio Input Port 1. CMOS logic levels from 1.8 V to 3.3 V.
77	AP0_IN	Digital Input	Audio Input Port 0. CMOS logic levels from 1.8 V to 3.3 V.
78	SDATA	Digital I/O	I2C port serial data input/output pin. SDA is the data line for the control port.
79	SCL	Digital Input	I2C port serial clock input. SCL is the clock line for the control port.
80	DGND	Ground	Ground for DVDD
81	DVDD	Power	Digital supply voltage (1.8 V)
82	INT1 (AMUTE1)	Digital Output	Interrupt pin, can be active low or active high. When status bits change, this pin is triggered. The events that trigger an interrupt are under user control. This pin can also output an audio mute signal
83	INT2 (AMUTE2)	Digital Output	Interrupt pin, can be active low or active high. When status bits change, this pin is triggered. The events that trigger an interrupt are under user control. This pin can also output an audio mute signal. I2C LSB selection.
84	INT_TX	Digital Output	Interrupt. Open drain. A 2 kΩ pull-up resistor to the microcontroller I/O supply is recommended.
85	DGNDIO	Ground	Ground for DVDDIO
86	DVDDIO	Power	Digital I/O supply voltage (3.3 V)

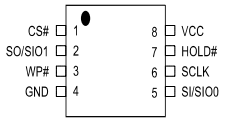
Location	Mnemonic	Type	Description
87	AP0_OUT	Digital Output	Audio output port 0.
88	AP1_OUT	Digital Output	Audio output port 1.
89	AP2_OUT	Digital Output	Audio output port 2.
90	AP3_OUT	Digital Output	Audio output port 3.
91	AP4_OUT	Digital Output	Audio output port 4.
92	DGND	Ground	Ground for DVDD
93	DVDD	Power	Digital supply voltage (1.8 V)
94	AP5_OUT	Digital Output	Audio output port 5.
95	SCLK_OUT	Digital Output	Audio serial clock output.
96	MCLK_OUT	Digital Output	Audio master clock output.
97	RESETB	Digital Input	System reset input. Active low. A minimum low reset pulse width of 5 ms is required to reset the ADV7623 circuitry.
98	PWRDNB	Digital Input	Active low power-down pin. This pin should be used as a system power detect when the internal EDID is powered from the 5V signal from the HDMI port when connected to active equipment. Pin pulled down internally.
99	PGND	Ground	Ground for PVDD
100	PVDD	Power	PLL supply voltage
101	XTAL	Miscellaneous Analog	Input pin for 28.63636 MHz crystal or an external 1.8 V 28.63636 MHz clock oscillator source to clock the ADV7623. The following crystal frequencies are also supported: 24.576 MHz and 27 MHz.
102	XTAL1	Miscellaneous Analog	Crystal output pin. This pin should be left floating if a clock oscillator is used.
103	PVDD	Power	PLL supply voltage
104	PGND	Ground	PVDD Ground
105	HP_CTRLA	Digital Output	Hot Plug Detect for port A.
106	5V_DETA	Digital Input	5 V detect pin for port A in the HDMI interface.
107	RTERM	Miscellaneous Analog	Sets internal termination resistance. A 500 Ω resistor between this pin and GND should be used.
108	DDCA_SDA	Digital I/O	HDCP slave serial data port A. DDCD_SDA is a 3.3 V input/output that is 5 V tolerant.
109	DDCA_SCL	Digital Input	HDCP slave serial clock port A. DDCD_SCL is a 3.3 V input that is 5 V tolerant.
110	CVDD	Power	Receiver comparator supply voltage (1.8V)

Location	Mnemonic	Type	Description
111	CGND	Ground	TVDD and CVDD Ground
112	RXA_C-	HDMI Input	Digital input clock Complement of port A in the HDMI interface.
113	RXA_C+	HDMI Input	Digital input clock True of port A in the HDMI interface.
114	TVDD	Power	Receiver terminator supply voltage (3.3 V)
115	RXA_0-	HDMI Input	Digital input channel 0 complement of port A in the HDMI interface.
116	RXA_0+	HDMI Input	Digital input channel 0 true of port A in the HDMI interface.
117	CGND	Ground	TVDD and CVDD Ground
118	RXA_1-	HDMI Input	Digital input channel 1 complement of port A in the HDMI interface.
119	RXA_1+	HDMI Input	Digital input channel 1 true of port A in the HDMI interface.
120	TVDD	Power	Receiver terminator supply voltage (3.3 V)
121	RXA_2-	HDMI Input	Digital input channel 2 complement of port A in the HDMI interface.
122	RXA_2+	HDMI Input	Digital input channel 2 true of port A in the HDMI interface.
123	HP_CTRLB	Digital Output	Hot Plug Detect for port B.
124	5V_DETB	Digital Input	5 V detect pin for port B in the HDMI interface.
125	DGND	Ground	Ground for DVDD
126	DVDD	Power	Digital supply voltage (1.8 V)
127	DDCB_SDA	Digital I/O	HDCP slave serial data ports B. DDCB_SDA is a 3.3 V input/output that is 5 V tolerant.
128	DDCB_SCL	Digital Input	HDCP slave serial clock port B. DDCB_SCL is a 3.3 V input that is 5 V tolerant.
129	CVDD	Power	Receiver comparator supply voltage (1.8V)
130	CGND	Ground	TVDD and CVDD Ground
131	RXB_C-	HDMI Input	Digital input clock complement of port B in the HDMI interface.
132	RXB_C+	HDMI Input	Digital input clock true of port B in the HDMI interface.
133	TVDD	Power	Receiver terminator supply voltage (3.3 V)
134	RXB_0-	HDMI Input	Digital input channel 0 complement of port B in the HDMI interface.
135	RXB_0+	HDMI Input	Digital input channel 0 true of port B in the HDMI interface.
136	CGND	Ground	TVDD and CVDD Ground
137	RXB_1-	HDMI Input	Digital input channel 1 complement of port
			B in the HDMI interface.
138	RXB_1+	HDMI Input	Digital input channel 1 true of port B in the HDMI interface.
139	TVDD	Power	Receiver terminator supply voltage (3.3 V)
140	RXB_2-	HDMI Input	Digital input channel 2 complement of port B in the HDMI interface.
141	RXB_2+	HDMI Input	Digital input channel 2 true of port B in the HDMI interface.
142	HP_CTRLC	Digital Output	Hot Plug Detect for port C.
143	5V_DETC	Digital Input	5 V detect pin for port C in the HDMI interface.
144	DDCC_SDA	Digital I/O	HDCP slave serial clock port C. DDCC_SDA is a 3.3 V input/output that is 5 V tolerant.

MX25L3206EM2I-12G (DIGITAL : IC722)

PIN CONFIGURATIONS

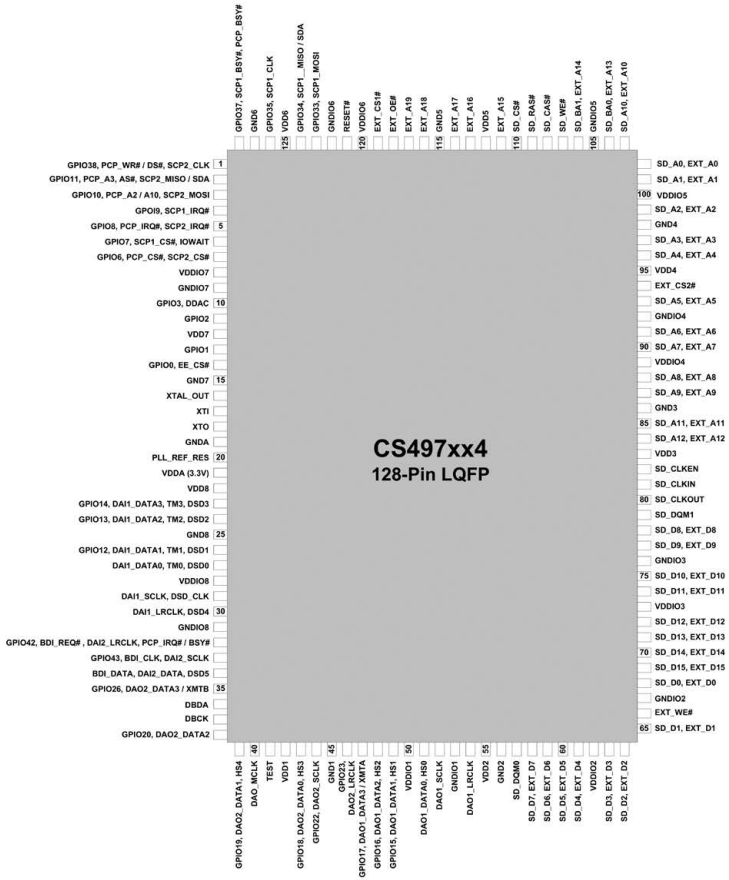
8-PIN SOP (200mil)

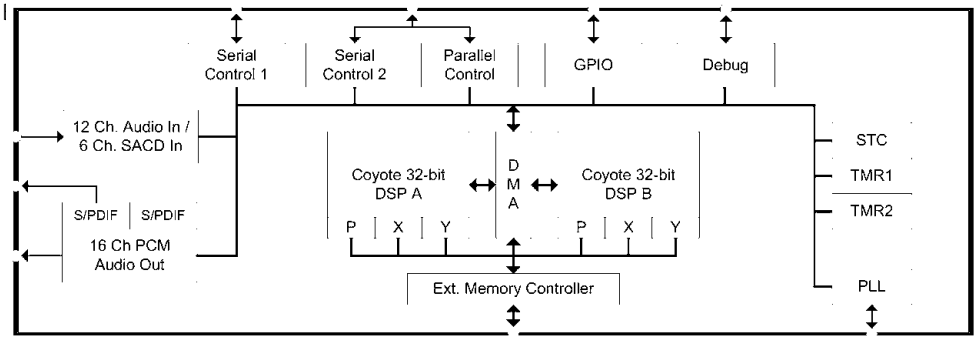


PIN DESCRIPTION

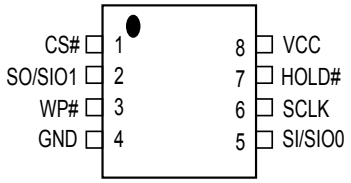
SYMBOL	DESCRIPTION
CS#	Chip Select
SI/SIO0	Serial Data Input (for 1 x I/O)/ Serial Data Input & Output (for Dual Output mode)
SO/SIO1	Serial Data Output (for 1 x I/O)/ Serial Data Output (for Dual Output mode)
SCLK	Clock Input
WP#	Write protection
HOLD#	Hold, to pause the device without deselecting the device
VCC	+ 3.3V Power Supply
GND	Ground

CS497024CVZ (DIGITAL : IC741)





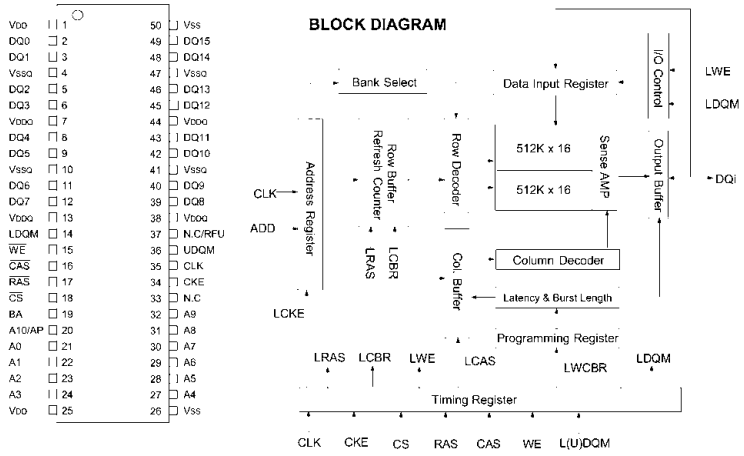
MX25L8006EM2I-12G (DIGITAL : IC742)



PIN DESCRIPTION

SYMBOL	DESCRIPTION
CS#	Chip Select
SI/SIO0	Serial Data Input (for 1 x I/O)/ Serial Data Input & Output (for Dual Output mode)
SO/SIO1	Serial Data Output (for 1 x I/O)/ Serial Data Output (for Dual Output mode)
SCLK	Clock Input
WP#	Write protection
HOLD#	Hold, to pause the device without deselecting the device
VCC	+ 3.3V Power Supply
GND	Ground

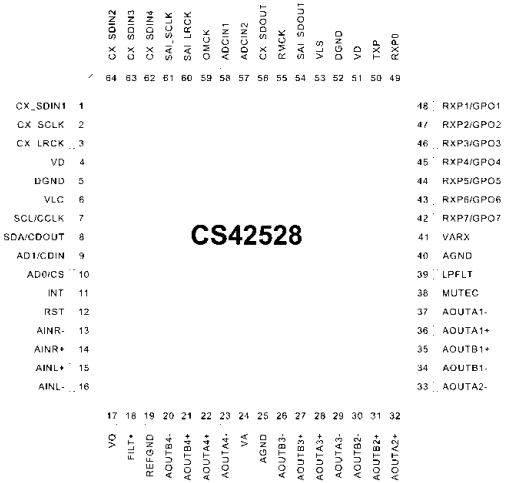
M12L16161A5TG2Q (DIGITAL : IC743)



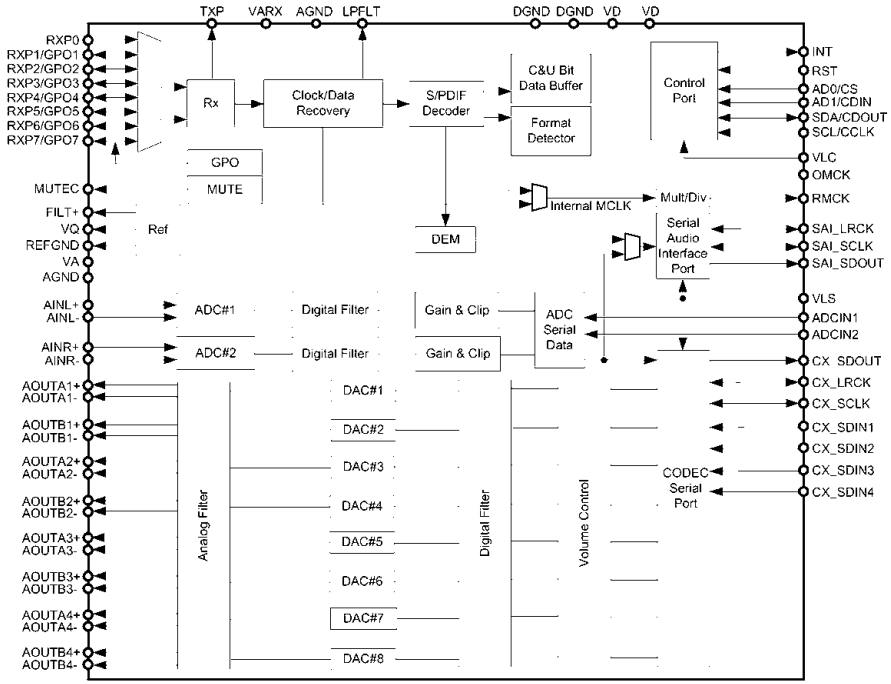
Terminal Functions

Pin	Name	Input Function
CLK	System Clock	Active on the positive going edge to sample all inputs.
CS	Chip Select	Disables or enables device operation by masking or enabling all inputs except CLK, CKE and L(U)DQM.
CKE	Clock Enable	Masks system clock to freeze operation from the next clock cycle. CKE should be enabled at least one cycle prior to new command. Disable input buffers for power down in standby.
A0 ~ A10/AP	Address	Row / column addresses are multiplexed on the same pins. Row address : RA0 ~ RA10, column address : CA0 ~ CA7
BA	Bank Select Address	Selects bank to be activated during row address latch time. Selects bank for read/write during column address latch time.
RAS	Row Address Strobe	Latches row addresses on the positive going edge of the CLK with RAS low. Enables row access & precharge.
CAS	Column Address Strobe	Latches column addresses on the positive going edge of the CLK with CAS low. Enables column access.
WE	Write Enable	Enables write operation and row precharge. Latches data in starting from CAS , WE active.
L(U)DQM	Data Input / Output Mask	Makes data output Hi-Z, tSHZ after the clock and masks the output. Blocks data input when L(U)DQM active.
DQ0~15	Data Input / Output	Data inputs/outputs are multiplexed on the same pins.
VDD/VSS	Power Supply/Ground	Power and ground for the input buffers and the core logic.
VDDQ/VSSQ	Data Output Power/Ground	Isolated power supply and ground for the output buffers to provide improved noise immunity.
N.C/RFU	No Connection/ Reserved for Future Use	This pin is recommended to be left No Connection on the device.

CS42528-CQ (DIGITAL : IC744)



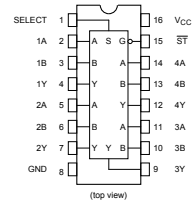
Block diagram

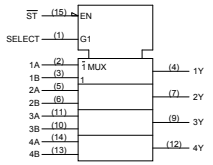


Terminal Functions

INT	11	**Interrupt** (*Output*) - The CS42528 will generate an interrupt condition as per the Interrupt Mask register. See "Interrupts" on page 40 for more details.
$\overline{RST}$	12	**Reset** (*Input*) - The device enters a low power mode and all internal registers are reset to their default settings when low.
AINR- AINR+	13 14	**Differential Right Channel Analog Input** (*Input*) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
AINL+ AINL-	15 16	**Differential Left Channel Analog Input** (*Input*) - Signals are presented differentially to the delta-sigma modulators via the AINL+/- pins.
VQ	17	**Quiescent Voltage** (*Output*) - Filter connection for internal quiescent reference voltage.
FILT+	18	**Positive Voltage Reference** (*Output*) - Positive reference voltage for the internal sampling circuits.
REFGND	19	**Reference Ground** (*Input*) - Ground reference for the internal sampling circuits.
AOUTA1 +,- AOUTB1 +,- AOUTA2 +,- AOUTB2 +,- AOUTA3 +,- AOUTB3 +,- AOUTA4 +,- AOUTB4 +,-	36,37 35,34 32,33 31,30 28,29 27,26 22,23 21,20	**Differential Analog Output** (*Output*) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
VA VARX	24 41	**Analog Power** (*Input*) - Positive power supply for the analog section.
AGND	25 40	**Analog Ground** (*Input*) - Ground reference. Should be connected to analog ground.
MUTEC	38	**Mute Control** (*Output*) - The Mute Control pin outputs high impedance following an initial power-on condition or whenever the PDN bit is set to a '1', forcing the codec into power-down mode. The signal will remain in a high impedance state as long as the part is in power-down mode. The Mute Control pin goes to the selected "active" state during reset, muting, or if the master clock to left/right clock frequency ratio is incorrect. This pin is intended to be used as a control for external mute circuits to prevent the clicks and pops that can occur in any single supply system. The use of external mute circuits are not mandatory but may be desired for designs requiring the absolute minimum in extraneous clicks and pops.
LPFLT	39	**PLL Loop Filter** (*Output*) - An RC network should be connected between this pin and ground.
RXP7/GPO7 RXP6/GPO6 RXP5/GPO5 RXP4/GPO4 RXP3/GPO3 RXP2/GPO2 RXP1/GPO1	42 43 44 45 46 47 48	**S/PDIF Receiver Input/ General Purpose Output** (*Input/Output*) - Receiver inputs for S/PDIF encoded data. The CS42528 has an internal 8:2 multiplexer to select the active receiver port, according to the Receiver Mode Control 2 register. These pins can also be configured as general purpose output pins, ADC Overflow indicators or Mute Control outputs according to the RXP/General Purpose Pin Control registers.
RXP0	49	**S/PDIF Receiver Input** (*Input*) - Dedicated receiver input for S/PDIF encoded data.
TXP	50	**S/PDIF Transmitter Output** (*Output*) - S/PDIF encoded data output, mapped directly from one of the receiver inputs as indicated by the Receiver Mode Control 2 register.
VLS	53	**Serial Port Interface Power** (*Input*) - Determines the required signal level for the serial port interfaces.
SAI_SDOUT	54	**Serial Audio Interface Serial Data Output** (*Output*) - Output for two's complement serial audio PCM data from the S/PDIF incoming stream. This pin can also be configured to transmit the output of the internal and external ADCs.
RMCK	55	**Recovered Master Clock** (*Output*) - Recovered master clock output from the External Clock Reference (OMCK, pin 59) or the PLL which is locked to the incoming S/PDIF stream or CX_LRCK.
CX_SDOUT	56	**CODEC Serial Data Output** (*Output*) - Output for two's complement serial audio data from the internal and external ADCs.
ADCIN1 ADCIN2	58 57	**External ADC Serial Input** (*Input*) - The CS42528 provides for up to two external stereo analog to digital converter inputs to provide a maximum of six channels on one serial data output line when the CS42528 is placed in One-Line Mode.
OMCK	59	**External Reference Clock** (*Input*) - External clock reference that must be within the ranges specified in the register "OMCK Frequency (OMCK Freqx)" on page 53.
SAI_LRCK	60	**Serial Audio Interface Left/Right Clock** (*Input/Output*) - Determines which channel, Left or Right, is currently active on the serial audio data line.
SAI_SCLK	61	**Serial Audio Interface Serial Clock** (*Input/Output*) - Serial clock for the Serial Audio Interface.

TC74VHC157FT (DIGITAL : IC745)



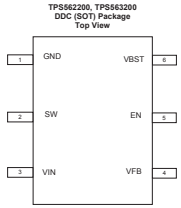


Truth Table

Inputs				Output
$\overline{ST}$	SELECT	A	B	
H	X	X	X	L
L	L	L	X	L
L	L	H	X	H
L	H	X	L	L
L	H	X	H	H

X: Don't care

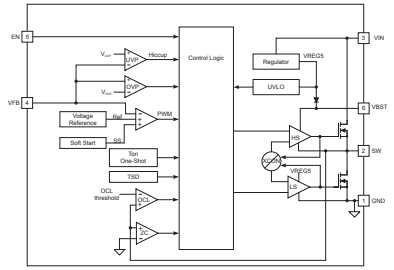
TPS563200 (DIGITAL : IC751 - IC753)



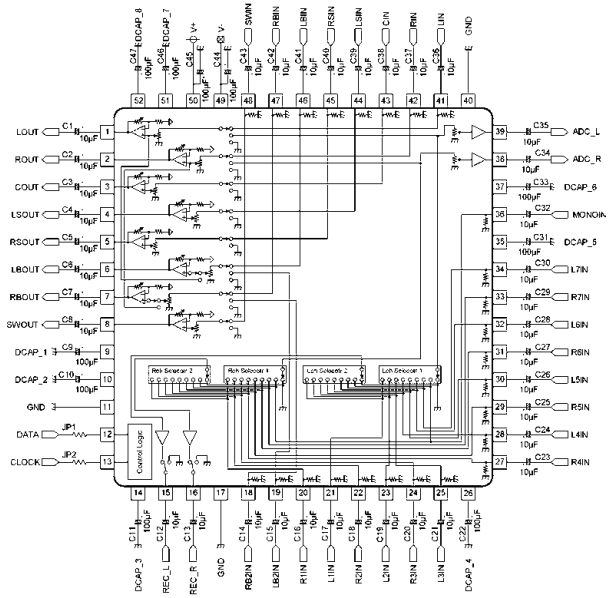
Terminal Functions

PIN		DESCRIPTION
NAME	NUMBER	
GND	1	Ground pin Source terminal of low-side power NFET as well as the ground terminal for controller circuit. Connect sensitive VFB to this GND at a single point.
SW	2	Switch node connection between high-side NFET and low-side NFET.
VIN	3	Input voltage supply pin. The drain terminal of high-side power NFET.
VFB	4	Converter feedback input. Connect to output voltage with feedback resistor divider.
EN	5	Enable input control. Active high and must be pulled up to enable the device.
VBST	6	Supply input for the high-side NFET gate drive circuit. Connect a 0.1 μ F capacitor between VBST and SW pins.

Block diagram



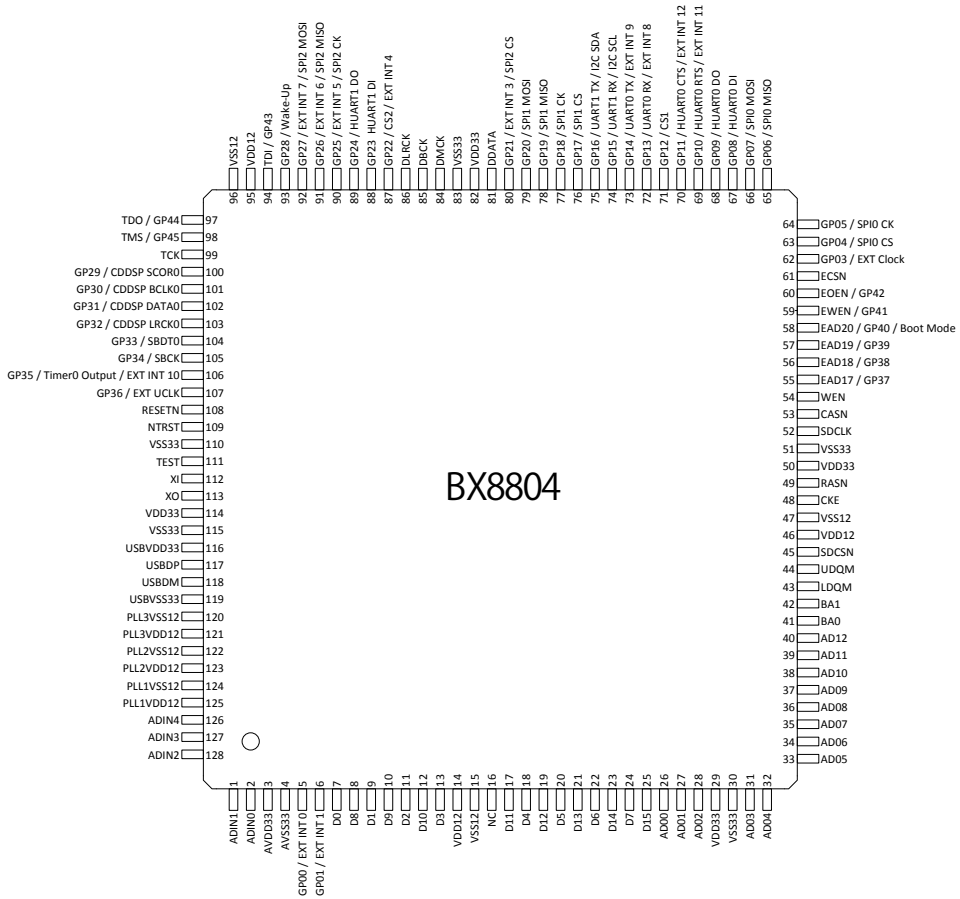
NJU72340A (DIGITAL : IC761)



Terminal Functions

Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL
1	LOUT	14	DCAP_3	27	R4IN	40	GND
2	ROUT	15	REC_R	28	L4IN	41	LIN
3	COUT	16	REG_L	29	R5IN	42	RIN
4	LSOUT	17	GND	30	L5IN	43	CIN
5	RSOUT	18	RB2IN	31	R6IN	44	LSIN
6	LBOUT	19	LB2IN	32	L6IN	45	RSIN
7	RBOUT	20	R1IN	33	R7IN	46	LBIN
8	SWOUT	21	L1IN	34	L7IN	47	RBIN
9	DCAP_1	22	R2IN	35	DCAP_5	48	SWIN
10	DCAP_2	23	L2IN	36	MONOIN	49	V-
11	GND	24	R3IN	37	DCAP_6	50	V+
12	DATA	25	L3IN	38	ADC_R	51	DCAP_7
13	CLOCK	26	DCAP_4	39	ADC_L	52	DCAP_8

BX8804 (USB : IC901)



Terminal Functions

Pin	Name	Type	Description	Alternative Function
1	ADIN1	I	ADC analog input[1]	
2	ADIN0	I	ADC analog input[0]	
3	AVDD33	P	ADC Analog Power supply (3.3V)	
4	AVSS33	P	ADC Analog Ground	
5	GP00	BD	General Purpose IO 00	External Interrupt 0
6	GP01	BD	General Purpose IO 01	External Interrupt 1
7	D0	B	External SDRAM data bus [0]	External program data bus [0]
8	D8	B	External SDRAM data bus [8]	External program data bus [8]
9	D1	B	External SDRAM data bus [1]	External program data bus [1]
10	D9	B	External SDRAM data bus [9]	External program data bus [9]
11	D2	B	External SDRAM data bus [2]	External program data bus [2]
12	D10	B	External SDRAM data bus [10]	External program data bus [10]
13	D3	B	External SDRAM data bus [3]	External program data bus [3]
14	VDD12	P	Digital power supply (1.2V)	
15	VSS12	P	Digital Ground	
16	NC		Not Connected	
17	D11	B	External SDRAM data bus [11]	External program data bus [11]
18	D4	B	External SDRAM data bus [4]	External program data bus [4]
19	D12	B	External SDRAM data bus [12]	External program data bus [12]
20	D5	B	External SDRAM data bus [5]	External program data bus [5]
21	D13	B	External SDRAM data bus [13]	External program data bus [13]
22	D6	B	External SDRAM data bus [6]	External program data bus [6]
23	D14	B	External SDRAM data bus [14]	External program data bus [14]
24	D7	B	External SDRAM data bus [7]	External program data bus [7]
25	D15	B	External SDRAM data bus [15]	External program data bus [15]
26	AD0	O	External SDRAM address bus [0]	External program address bus [0]
27	AD1	O	External SDRAM address bus [1]	External program address bus [1]
28	AD2	O	External SDRAM address bus [2]	External program address bus [2]
29	IOVDD33	P	I/O Power supply (3.3V)	
30	IOVSS33	P	I/O Ground	
31	AD3	O	External SDRAM address bus [3]	External program address bus [3]
32	AD4	O	External SDRAM address bus [4]	External program address bus [4]
33	AD5	O	External SDRAM address bus [5]	External program address bus [5]
34	AD6	O	External SDRAM address bus [6]	External program address bus [6]
35	AD7	O	External SDRAM address bus [7]	External program address bus [7]
36	AD8	O	External SDRAM address bus [8]	External program address bus [8]
37	AD9	O	External SDRAM address bus [9]	External program address bus [9]
38	AD10	O	External SDRAM address bus [10]	External program address bus [10]
39	AD11	O	External SDRAM address bus [11]	External program address bus [11]
40	AD12	O	External SDRAM address bus [12]	External program address bus [12]
41	BA0	O	External SDRAM Bank selector 0	External program address bus [13]
42	BA1	O	External SDRAM Bank selector 1	External program address bus [14]
43	LDQM	O	SDRAM Lower byte data mask	External program address bus [15]
44	UDQM	O	SDRAM Upper byte data mask	External program address bus [16]
45	SDCSN	O	SDRAM Chip select	
46	VDD12	P	Digital power supply (1.2V)	
47	VSS12	P	Digital Ground	
48	CKE	O	SDRAM clock enable	
49	RASN	O	SDRAM RAS	
50	IOVDD33	P	I/O Power supply (3.3V)	
51	IOVSS33	P	I/O Ground	
52	SDCLK	O	SDRAM clock	
53	CASN	O	SDRAM CAS	
54	WEN	O	SDRAM WEN	
55	EAD17	B	External memory address[17]	General Purpose IO 37
56	EAD18	B	External memory address[18]	General Purpose IO 38
57	EAD19	B	External memory address[19]	General Purpose IO 39
58	EAD20	B	External memory address[20]	General Purpose IO 40 Booting Mode
59	EWEN	B	External memory WEN	General Purpose IO 41
60	EOEN	B	External memory OEN	General Purpose IO 42
61	ECSN	O	External memory CSN	
62	GP03	B	General Purpose IO 03	External Clock (16.9344MHz)
63	GP04	B	General Purpose IO 04	SPI0 CS
64	GP05	B	General Purpose IO 05	SPI0 CK
65	GP06	B	General Purpose IO 06	SPI0 MISO
66	GP07	B	General Purpose IO 07	SPI0 MOSI
67	GP08	B	General Purpose IO 08	HUART0 DI
68	GP09	B	General Purpose IO 09	HUART0 DO
69	GP10	B	General Purpose IO 10	HUART0 RTS External Interrupt 11
70	GP11	B	General Purpose IO 11	HUART0 CTS External Interrupt 12
71	GP12	B	General Purpose IO 12	Chip Select 1 When GP12 is used for CS1, the external pull-up resistor (48 kΩ) has to be connected with this pin
72	GP13	B	General Purpose IO 13	UART0 RX Data External Interrupt 8
73	GP14	B	General Purpose IO 14	UART0 TX Data External Interrupt 9
74	GP15	B	General Purpose IO 15	UART1 RX Data I2C SCL
75	GP16	B	General Purpose IO 16	UART1 TX Data I2C SDA
76	GP17	B	General Purpose IO 17	SPI1 CS
77	GP18	B	General Purpose IO 18	SPI1 CK

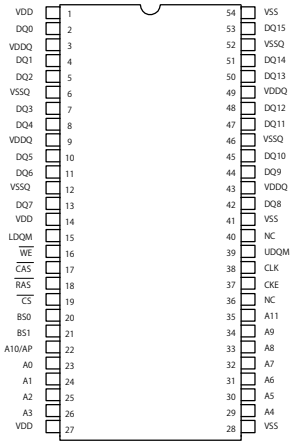
78	GP19	B	General Purpose IO 19	SPI1 MISO
79	GP20	B	General Purpose IO 20	SPI1 MOSI
80	GP21	B	General Purpose IO 21	External Interrupt 3
				SPI2 CS
81	DDATA	O	Audio serial data for external DAC	
82	IOVDD33	P	I/O Power supply (3.3V)	
83	IOVSS33	P	I/O Ground	
84	DMCK	O	Master clock for external DAC	
85	DBCK	O	Audio serial data Bit clock	
86	DLRCK	O	Audio serial data frame clock	
87	GP22	B	General Purpose IO 22	Chip Select 2 When GP22 is used for CS2, the external pull-up resistor (48 kΩ) has to be connected with this pin
				External Interrupt 4
88	GP23	B	General Purpose IO 23	HUART1 DI
89	GP24	B	General Purpose IO 24	HUART1 DO
90	GP25	B	General Purpose IO 25	External Interrupt 5
				SPI2 CK
91	GP26	B	General Purpose IO 26	External Interrupt 6
				SPI2 MISO
92	GP27	B	General Purpose IO 27	External Interrupt 7
				SPI2 MOSI
93	GP28	B	General Purpose IO 28	Wake-UP When GP28 is used for WAKE-UP signal input pin, the external pull-down resistor (48kΩ) has to be connected with this pin.
94	TDI	B	JTAG TDI input When GP43is used for TDI of JTAG, the external pull-up resistor (48kΩ) has to be connected with this pin.	General Purpose IO 43
95	VDD12	P	Digital power supply (1.2V)	
96	VSS12	P	Digital Ground	
97	TDO	B	JTAG TDO Output When GP44 is used for TDO of JTAG, the external pull-up resistor (48kΩ) has to be connected with this pin.	General Purpose IO 44
98	TMS	B	JTAG TMS input When GP45 is used for TMS of JTAG, the external pull-up resistor (48kΩ) has to be connected with this pin.	General Purpose IO 45
99	TCK	I	JTAG Clock Input	
100	GP29	B	General Purpose IO 29	CDDSP SCOR0

101	GP30	B	General Purpose IO 30	CDDSP BCLK0
102	GP31	B	General Purpose IO 31	CDDSP DATA0
103	GP32	B	General Purpose IO 32	CDDSP LRCK0
104	GP33	B	General Purpose IO 33	SBDT0
105	GP34	B	General Purpose IO 34	SBCK
106	GP35	B	General Purpose IO 35	Timer0 Output
				External Interrupt 10
107	GP36	B	General Purpose IO 36	External UCLK
108	RESETN	I	System Reset	
109	NTRST	I	JTAG NRST Input When NTRSR is used for Reset of JTAG, the external pull-up resistor (48kΩ) has to be connected with this pin.	
110	IOVSS33	P	I/O Ground	
111	TEST	I	Test	
112	XI	I	System clock input	
113	XO	O	System clock output	
114	IOVDD33	P	I/O Power supply (3.3V)	
115	IOVSS33	P	I/O Ground	
116	USBVDD33	P	USB Power supply (3.3V)	
117	USBDP	B	USB D+	
118	USBDM	B	USB D-	
119	USBVSS33	P	USB Ground (3.3V)	
120	PLL3VSS12	P	PLL3 Ground (1.2V)	
121	PLL3VDD12	P	PLL3 Power supply (1.2V)	
122	PLL2VSS12	P	PLL2 Ground (1.2V)	
123	PLL2VDD12	P	PLL2 Power supply (1.2V)	
124	PLL1VSS12	P	PLL1 Ground (1.2V)	
125	PLL1VDD12	P	PLL1 Power supply (1.2V)	
126	ADIN4	I	ADC analog input[4]	
127	ADIN3	I	ADC analog input[3]	
128	ADIN2	I	ADC analog input[2]	

Note: Pin type 'D' means open drain output

W9864G6KH-6 (USB : IC902)

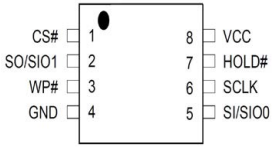
PIN CONFIGURATION



Terminal Functions

PIN NUMBER	PIN NAME	FUNCTION	DESCRIPTION
23 ~ 26, 22, 29 ~35	A0–A11	Address	Multiplexed pins for row and column address. Row address: A0–A11. Column address: A0–A7. A10 is sampled during a precharge command to determine if all banks are to be precharged or bank selected by BS0, BS1.
20, 21	BS0, BS1	Bank Select	Select bank to activate during row address latch time, or bank to read/write during address latch time.
2, 4, 5, 7, 8, 10, 11, 13, 42, 44, 45, 47, 48, 50, 51, 53	DQ0–DQ15	Data Input/ Output	Multiplexed pins for data output and input.
19	$\overline{CS}$	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
18	$\overline{RAS}$	Row Address Strobe	Command input. When sampled at the rising edge of the clock $\overline{RAS}$, $\overline{CAS}$ and $\overline{WE}$ define the operation to be executed.
17	$\overline{CAS}$	Column Address Strobe	Referred to $\overline{RAS}$
16	$\overline{WE}$	Write Enable	Referred to $\overline{RAS}$
39, 15	UDQM LDQM	Input/output mask	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
38	CLK	Clock Inputs	System clock used to sample inputs on the rising edge of clock.
37	CKE	Clock Enable	CKE controls the clock activation and deactivation. When CKE is low, Power Down mode, Suspend mode, or Self Refresh mode is entered.
1, 14, 27	V_{DD}	Power	Power for input buffers and logic circuit inside DRAM.
20, 41, 54	V_{SS}	Ground	Ground for input buffers and logic circuit inside DRAM.
3, 9, 43, 49	V_{DDQ}	Power for I/O buffer	Separated power from V_{DD}, to improve DQ noise immunity.
6, 12, 46, 52	V_{SSQ}	Ground for I/O buffer	Separated ground from V_{SS}, to improve DQ noise immunity.
36, 40	NC	No Connection	No connection.

MX25L1606EM2I-12G (USB : IC904)

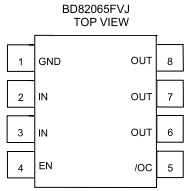


Terminal Functions

PIN DESCRIPTION

SYMBOL	DESCRIPTION
CS#	Chip Select
SI/SIO0	Serial Data Input (for 1 x I/O)/ Serial Data Input & Output (for Dual Output mode)
SO/SIO1	Serial Data Output (for 1 x I/O)/ Serial Data Output (for Dual Output mode)
SCLK	Clock Input
WP#	Write protection
HOLD#	Hold, to pause the device without deselecting the device
VCC	+ 3.3V Power Supply
GND	Ground

BD82065FVJ (USB : IC905)



端子番号	端子名	I / O	端子機能
1	GND	-	グランド端子。
2, 3	IN	-	電源入力端子。 パワースイッチへの入力端子と内部回路の電源入力端子です。 使用時は外部で全端子を接続してください。
4	EN , /EN	I	パワースイッチイネーブル入力端子。 Low レベルの入力でパワースイッチを ON します。(BD82061FVJ) High レベルの入力でパワースイッチを ON します。(BD82065FVJ) High レベル入力 > 2.0V, Low レベル入力 < 0.8V。
5	/OC	O	過電流通知出力端子。 過電流、過温度検出時に Low になります。 オープンドレイン出力端子です。
6, 7, 8	OUT	O	パワースイッチ出力端子。 使用時は外部で全端子を接続してください。

TOP268VG (SMPS : IC601)

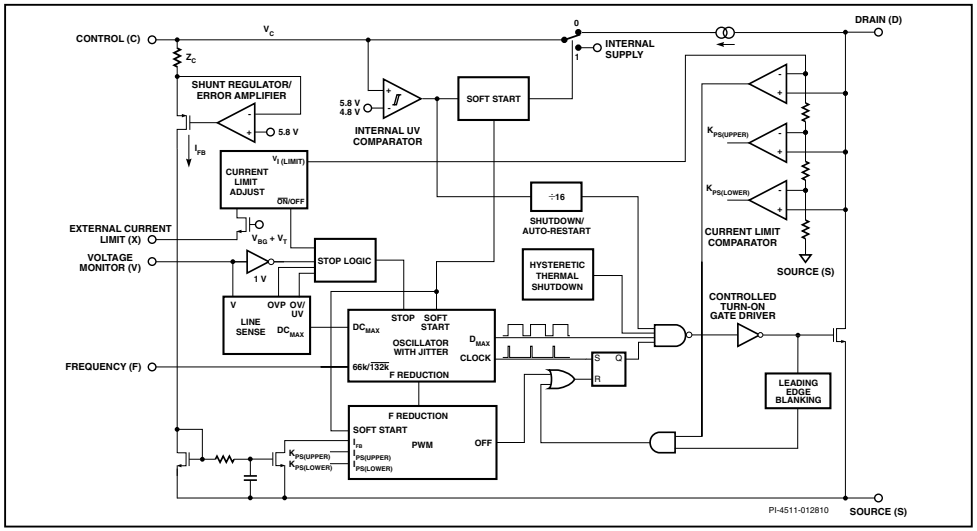


Figure 3. Functional Block Diagram.

Pin Functional Description

DRAIN (D) Pin:
High-voltage power MOSFET DRAIN pin. The internal start-up bias current is drawn from this pin through a switched high-voltage current source. Internal current limit sense point for drain current.

CONTROL (C) Pin:
Error amplifier and feedback current input pin for duty cycle control. Internal shunt regulator connection to provide internal bias current during normal operation. It is also used as the connection point for the supply bypass and auto-restart/ compensation capacitor.

EXTERNAL CURRENT LIMIT (X) Pin:
Input pin for external current limit adjustment remote-ON/OFF and device reset. A connection to SOURCE pin disables all functions on this pin. This pin should not be left floating.

VOLTAGE MONITOR (V) Pin:
Input for OV, UV, line feed-forward with DC_{MAX} reduction, output overvoltage protection (OVP), remote-ON/OFF. A connection to the SOURCE pin disables all functions on this pin. This pin should not be left floating.

FREQUENCY (F) Pin :
Input pin for selecting switching frequency 132 kHz if connected to SOURCE pin and 66 kHz if connected to CONTROL pin. This pin should not be left floating.

SOURCE (S) Pin:
Output MOSFET source connection for high-voltage power return. Primary-side control circuit common and reference point.

NO CONNECTION (NC) Pin:
Internally not connected, floating potential pin.

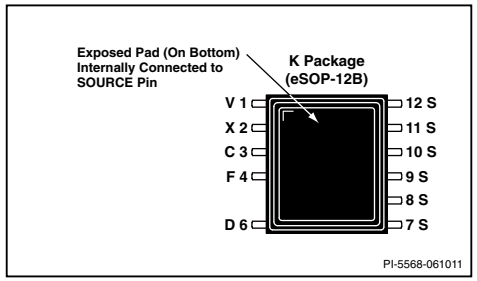
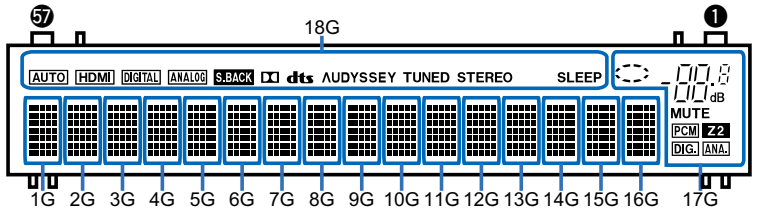


Figure 4. Pin Configuration (Top View).

2. FL DISPLAY

FLD (018BT021GINK) (FRONT : FL101)



PIN CONNECTION

PIN NO.	57	56	55	54	53	52	51
CONNECTION	F2	NP	NP	NP	LGND	PGND	VH

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	VDD	OSC	RESET	CS	CP	DA	TSA	TSB	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	18G	17G	Q17G	Q18G	NP	NP	NP	F1

NOTE

1) F1, F2 ----Filament
2) NP ------No pin
3) DL ------Datum Line
4) NX ------No extend pin
5) LGND ----Logic GND pin
6) PGND ----Power GND pin
7) VH ------High Voltage Supply pin
8) VDD ------Logic Voltage Supply pin
9) CP ----Shift Register Clock
10) DA ----Serial Data Input
11) TSA, B --Test pin
12) $\overline{CS}$ ------Chip Select Input pin
13) $\overline{RESET}$ --Reset Input
14) OSC ----Pin for self-oscillation
15) Solder composition is Sn-3Ag-0.5Cu.
16) 17G, 18G ---Grid
17) Q17G, Q18G ---Driver Output Port.
18) Field of vision is a minimum of 21.8° from the lower side.

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G	16G	17G(AD3)	18G(AD4)
D0	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	S9	-
D1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	3d	-
D2	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	2d	-
D3	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	3e	-
D4	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	2e	-
D5	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	3c	-
D6	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2c	-
D7	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3g	-
D8	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	2g	-
D9	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	3f	-
D10	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	2f	-
D11	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	3b	-
D12	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	2b	-
D13	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	3a	-
D14	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	2a	-
D15	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	Dp	-
D16	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	dB	-
D17	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	1d	-
D18	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	1e	-
D19	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	1c	-
D20	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1g	-
D21	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	1f	-
D22	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	1b	-
D23	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	1a	AUTO
D24	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	S1	HDMI
D25	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	S2	DIGITAL
D26	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	S3	ANALOG
D27	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	S4	S.BACK
D28	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	S5	DD
D29	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	S6	dts
D30	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	S7	AUDYSSEY
D31	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	S8	TUNED
D32	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	MUTE	STEREO
D33	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	PCM	RDS
D34	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	Z2	SLEEP
AD1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DIG.	-
AD2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ANA.	-

MECHANICAL

DISASSEMBLY

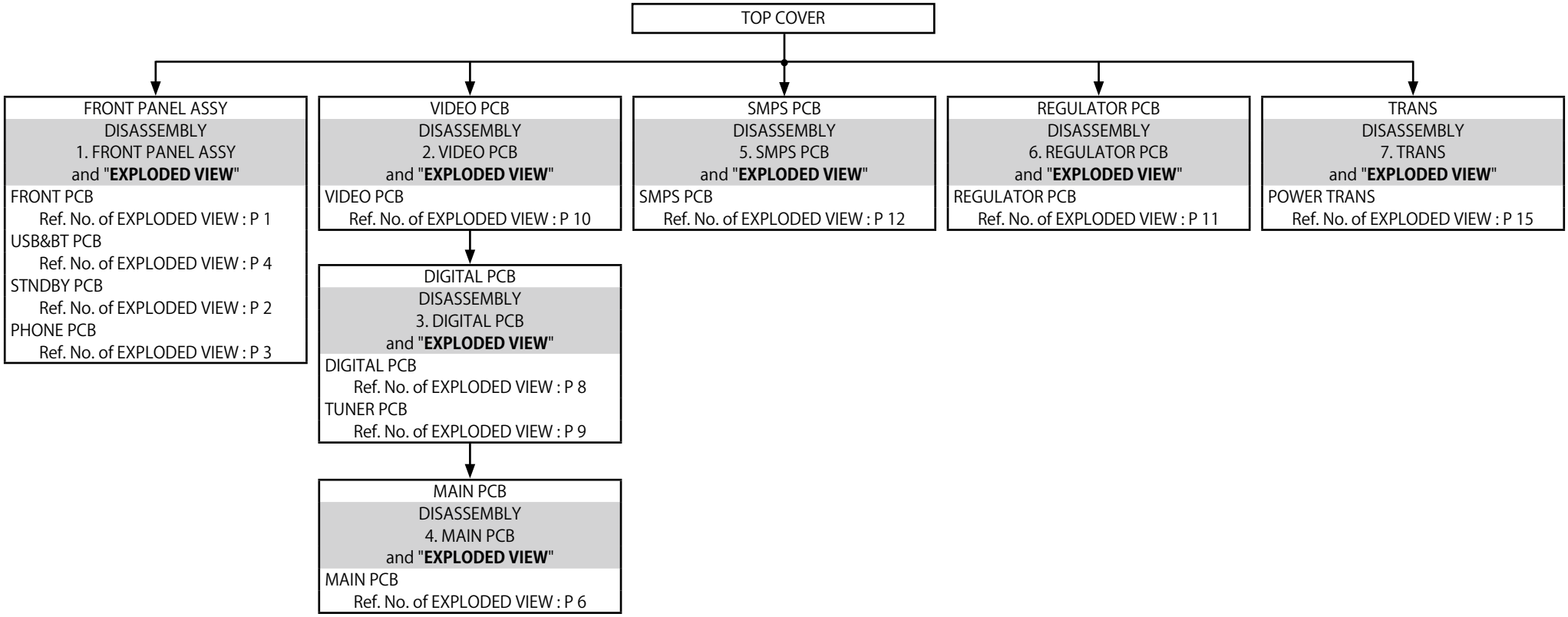
EXPLODED VIEW

PACKING VIEW

DISASSEMBLY

Flowchart

- Remove each part following the flow below.
- Reassemble the removed parts in the reverse order.
- Read "SAFETY PRECAUTIONS" before reassembling the removed parts.
- If wire bundles are removed or moved during adjustment or part replacement, reshape the wires after completing the work. Failure to shape the wires correctly may cause problems such as noise.
- See "EXPLODED VIEW"

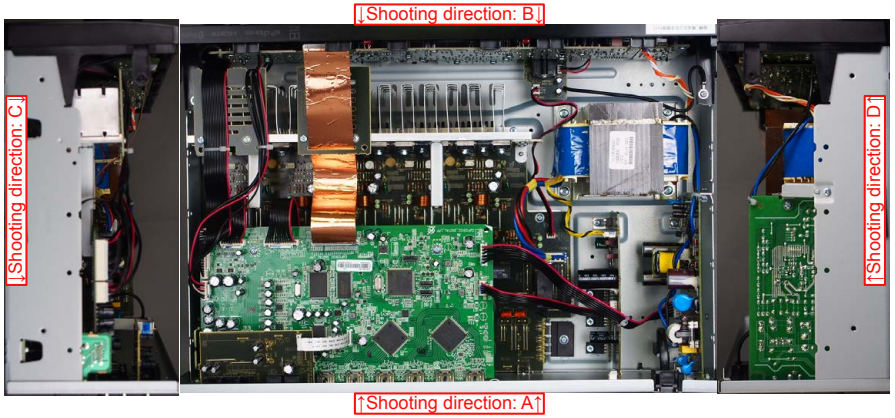


Explanatory Photos for DISASSEMBLY

• For the shooting direction of each photos used in this manual, see the photo below.
• **A, B, C and D** in the photo below indicate the shooting directions of photos.
• The photographs with no shooting direction indicated were taken from the top of the unit.
• Photos of AVR-S530BT E3 are used in this manual.

The viewpoint of each photograph

(Shooting direction : X) [View from the top]

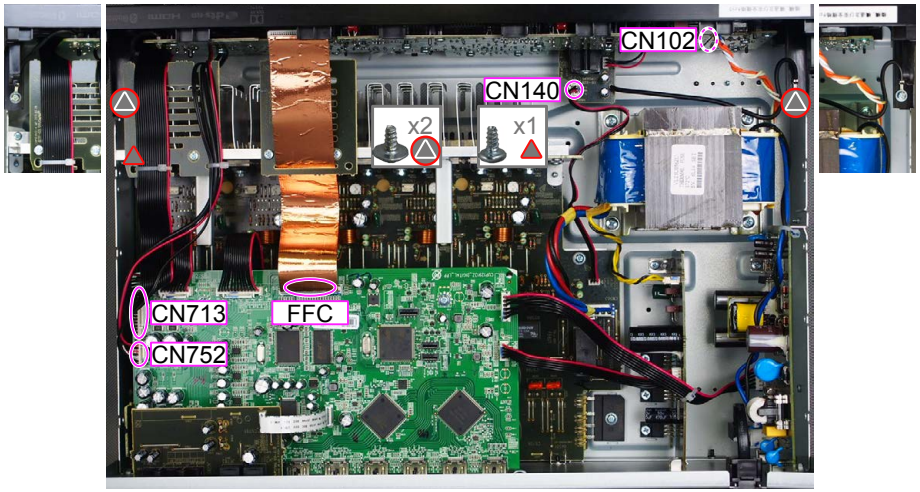


1. FRONT PANEL ASSY

Proceeding : TOP COVER → FRONT PANEL ASSY

(1) Remove the screws.

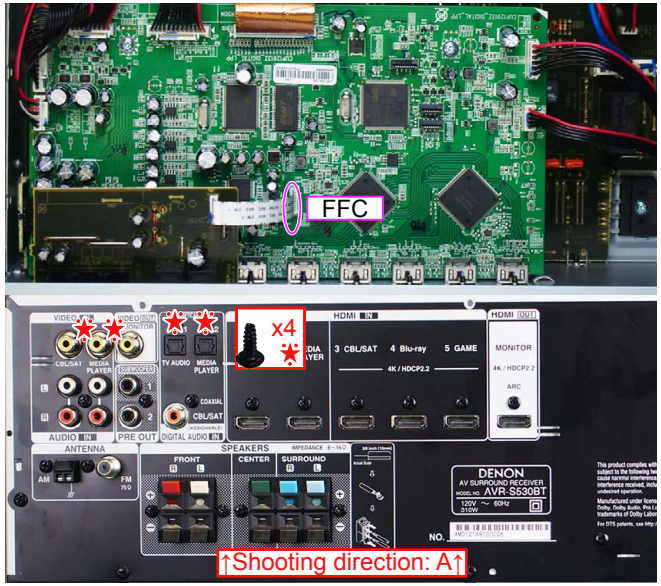
(2) Remove the screws. Remove the connector. Remove the FFC.



2. VIDEO PCB

Proceeding : TOP COVER → VIDEO PCB

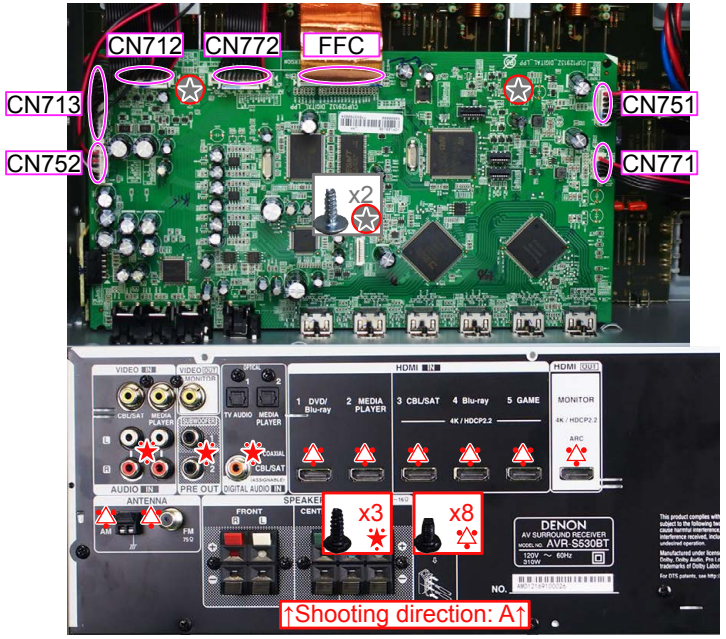
(1) Remove the screws. Remove the FFC.



3. DIGITAL PCB

Proceeding : TOP COVER → VIDEO PCB → DIGITAL PCB

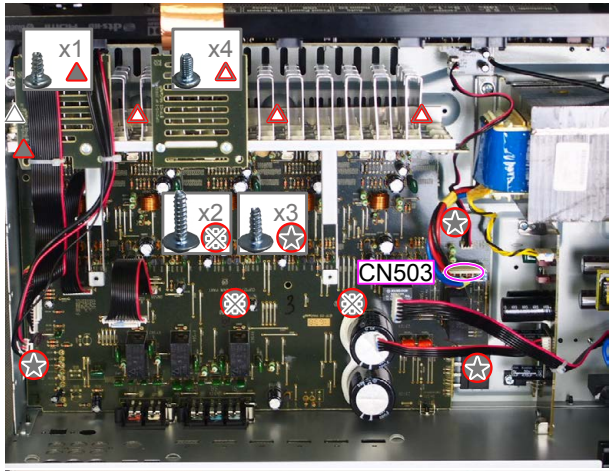
(1) Remove the screws. Remove the connector. Remove the FFC.

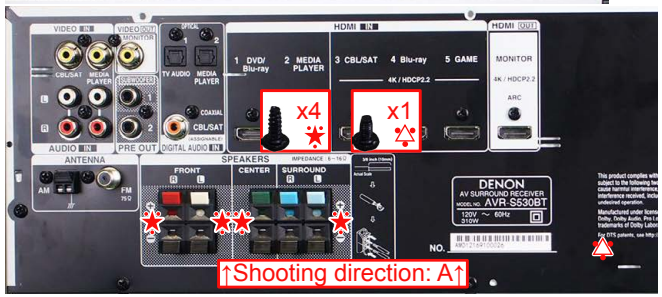


4. MAIN PCB

Proceeding : TOP COVER → VIDEO PCB → DIGITAL PCB → **MAIN PCB**

(1) Remove the screws.





5. SMPS PCB

Proceeding : TOP COVER → **SMPS PCB**

See "EXPLODED VIEW" for instructions on removing the SMPS PCB.

6. REGULATOR PCB

Proceeding : TOP COVER → **REGULATOR PCB**

See "EXPLODED VIEW" for instructions on removing the REG PCB.

7. TRANS

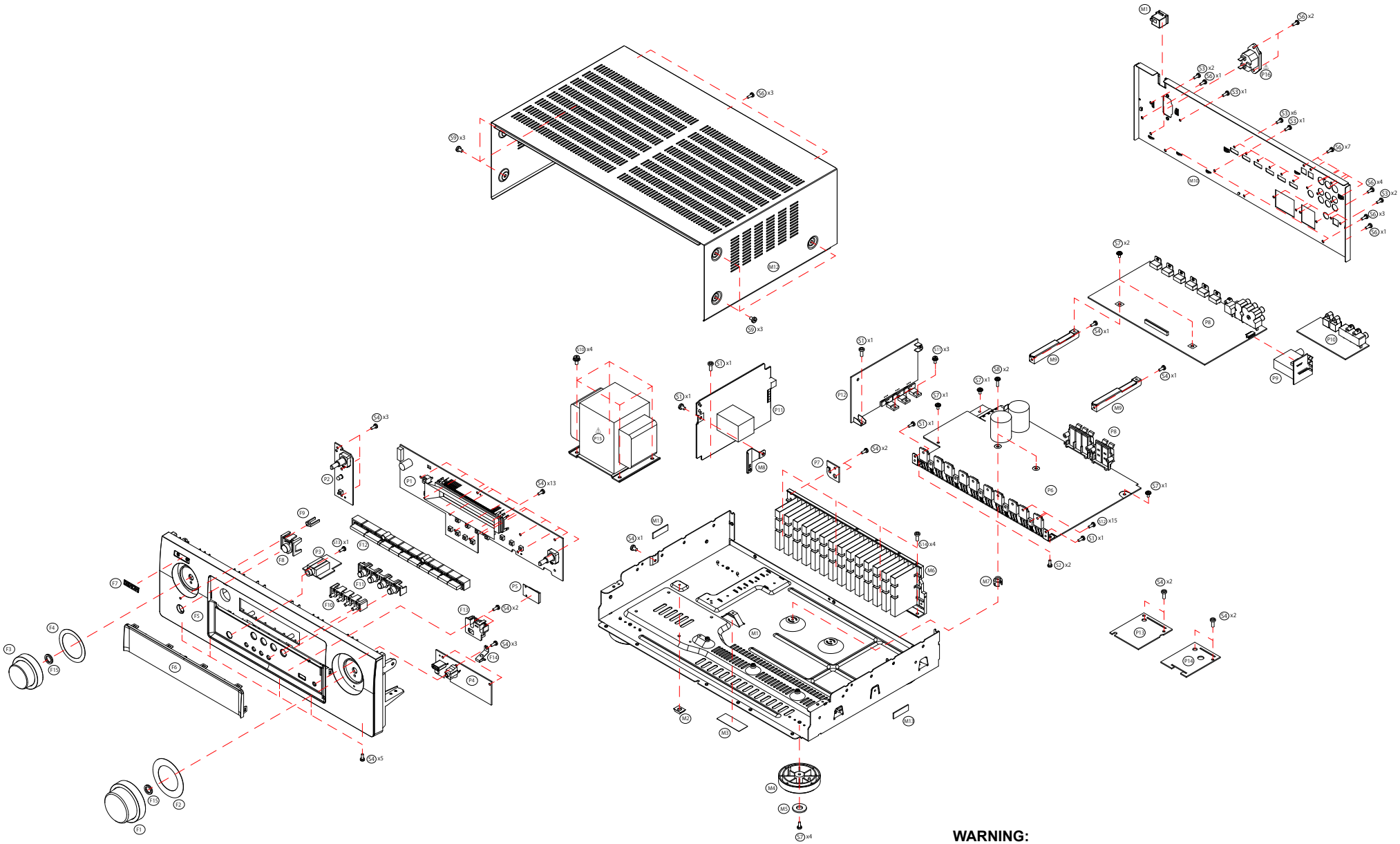
Proceeding : TOP COVER → **TRANS**

See "EXPLODED VIEW" for instructions on removing the transformer (TRANS).

EXPLODED VIEW

Please see the last chapter for the part list.

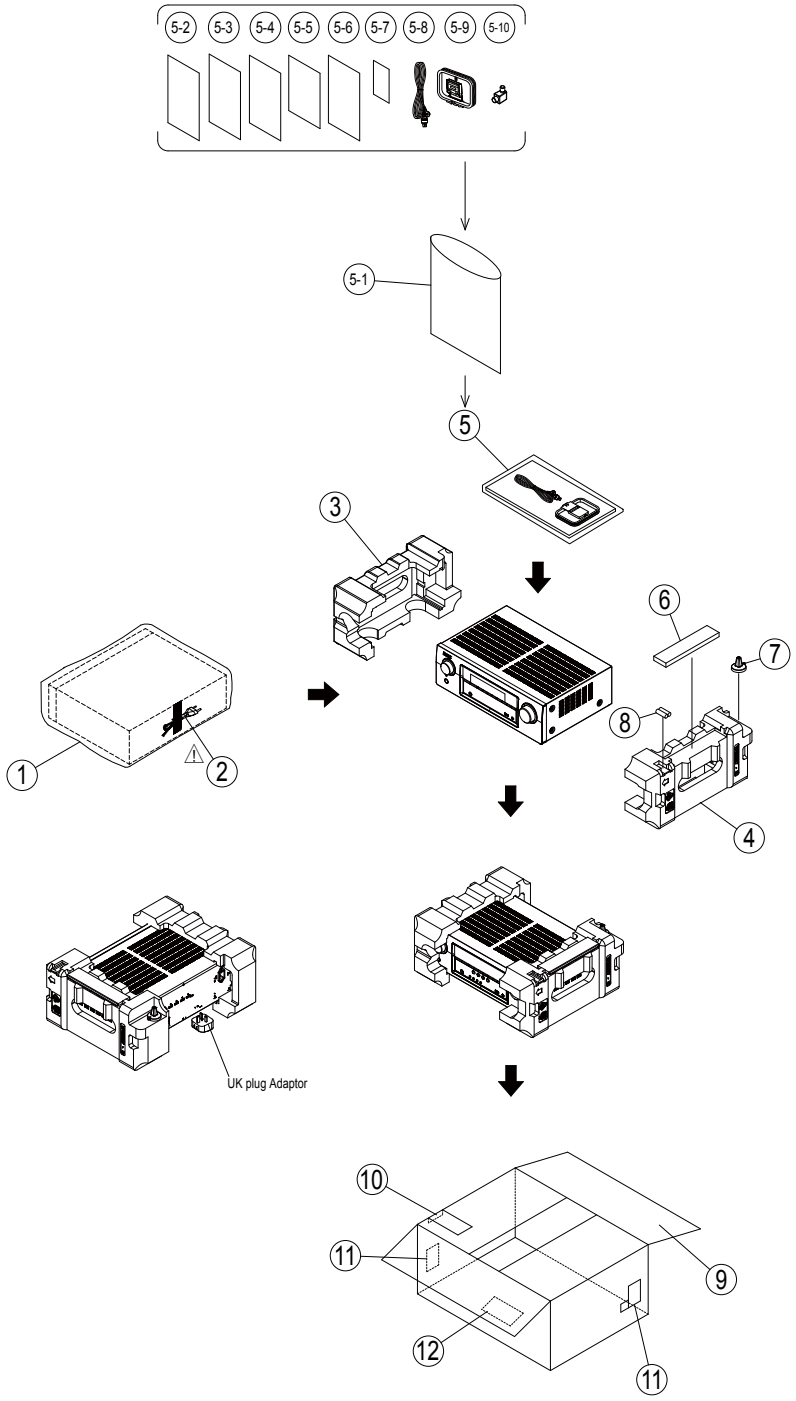
AVRS530BT/X540BT EXPLODED VIEW



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

PACKING VIEW

Please see the last chapter for the part list.



REPAIR INFORMATION

TROUBLE SHOOTING

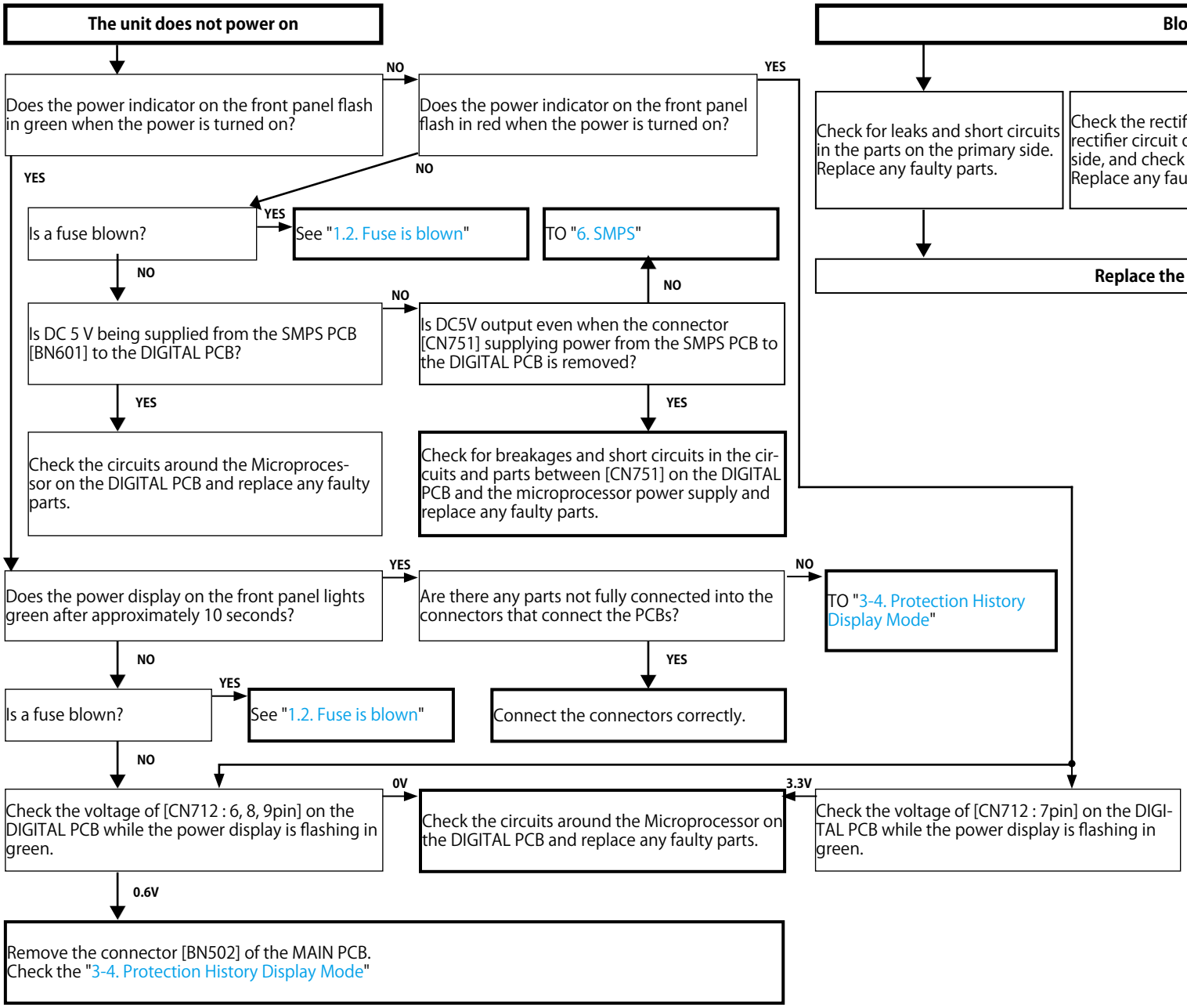
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

SPECIAL MODE

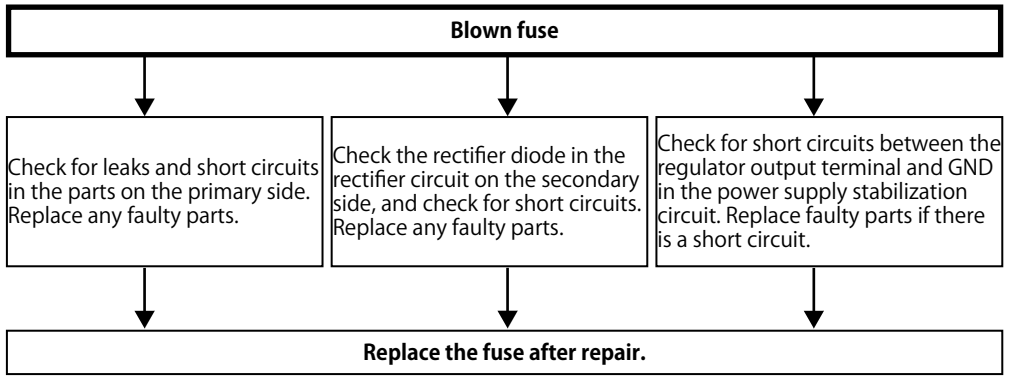
ADJUSTMENT

1. POWER

1.1. The unit does not power on



1.2. Fuse is blown



2. Analog video

MONITOR OUT (CVBS) output NG

↓

Is the power voltage being output correctly?
+5V : [C7810 : + side]
-5V : [C7811 : - side]

NO → The power supply circuit is faulty.

YES ↓

Is a signal being output from the video amplifier?
Output V : [IC781 : 1pin]

NO → Does the signal input to the video amplifier?
(for SAT/CBL function)
Vin3 : [IC781 : 7pin]

NO → Check the pattern between [JK781] and [IC781], and then check the Blu-ray/DVD player or the cable between the unit and the Blu-ray/DVD player.

YES ↓

Check the cable between the unit and the monitor or check the monitor.

YES ↓

Check the settings of each IC. Are the following voltages set?
SW2 : [IC781 : 10pin] : 3.3V : OK
SW5 : [IC781 : 2pin] : 3.3V : OK

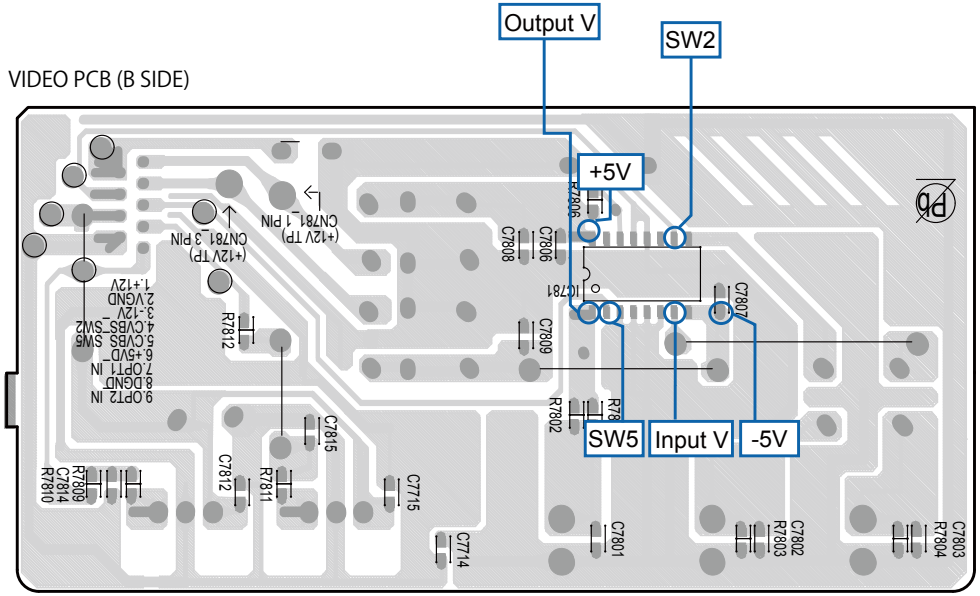
NO → The CPU [IC711] is faulty.

YES ↓

The circuit around [IC781] is faulty.

VIDEO test point

VIDEO PCB (B SIDE)



3.1. No picture or sound is output (HDMI to HDMI)

No picture or sound is output.

↓

Check the connection of the HDMI/DVI cable.

↓

(1) Is the HDMI/DVI cable correctly inserted?
- NO → Check the connection of the HDMI/DVI cable.
- YES ↓

(2) Is an HDMI/DVI selector, repeater or image quality improvement device being used?
- YES → Remove all of these and connect only the HDMI/DVI cable.
- NO ↓

(3) Is a certified HDMI cable (with the HDMI mark) being used?
- NO → Use a certified HDMI cable (with the HDMI mark).
- YES ↓

(4) Is the HDMI/DVI cable shorter than 5m?
- NO → Replace the HDMI/DVI cable with the one shorter than 5m (2m is recommended) and check again.
- YES ↓

(5) When the input signal is Deep Color or 4K, are you using a "**High speed HDMI cable with Ethernet**" or "**High speed cable**" that bears the HDMI logo?
- NO → Use an "**High speed HDMI cable with Ethernet**" or "**High speed cable**" that comes with the HDMI logo.
- YES ↓

(6) Are a picture and sound output when a different HDMI/DVI cable is used?
- YES → **The HDMI/DVI cable is faulty.**
- NO ↓

Check the Blu-ray/DVD player.

↓

(7) Are the HDMI output settings of the Blu-ray/DVD player correct?
- NO → Check the instruction manual of the Blu-ray/DVD player and set the HDMI output correctly.
- YES ↓

(8) When using a DENON Blu-ray/DVD player, is the "**HDMI**" indicator of the fluorescent display lit? Proceed to YES when using a Blu-ray/DVD player produced by other manufactures.
- NO → (10)
- YES ↓

(9) Are a picture and sound output when the resolution of the Blu-ray/DVD player is changed?
- YES → Set the output resolution of the Blu-ray/DVD player to the resolution supported by the TV.
- NO ↓

(10) Is sound output from the speaker terminal of this unit when the power of the TV is turned off or the cable connecting the TV to this unit is removed?
- YES → The Blu-ray/DVD player may not support the HDCP repeater function. Refer to the manufacturer of the Blu-ray/DVD player.
- NO ↓

(11) Are a picture and sound output when a different Blu-ray/DVD player is used?
- YES → The Blu-ray/DVD player is faulty.
- NO ↓

Check the TV.

↓

(12) Does the TV support HDCP?
- NO → Use a TV that supports HDCP. Computer monitors cannot be used.
- YES ↓

(13) Does the TV support 1080P/4K?
- NO → If the TV does not support 1080P/4K, a picture cannot be output even if the Blu-ray/DVD player is set to 1080P/4K.
- YES ↓

(14) Is the TV input setting set to HDMI?
- NO → Check the instruction manual of the TV and check the input setting.
- YES ↓

(15) Are a picture and sound output when a different TV is used?
- YES → The TV is faulty.
- NO ↓

Check the unit.

↓

Go to next page.

Checking the condition of the HDMI pin.
See "Check the HDMI connector *1"

NO → Replace the HDMI connector.

YES

(16) Is the unit input set to HDMI?

NO → Check the instruction manual of the this unit and check the input setting.

YES

The unit does not recognize the TV.
(17)
Does the HPD_O test point indicate "**Hi**" (3-5V)?
When the TV is connected, check the voltage on the IC side that the TV is connected to.
Check the waveform of DDC_CLK/DDC_DATA
Is the TMDS signal 3.3V? [D7321-D7332]
See "3.2. HDMI test point and waveforms"

NO → Either the pattern and circuit from HDMI connector [JK726] to [IC731] is faulty, or the HDMI output circuit is faulty (IC731 and peripheral circuits).
Replace the [IC731].

YES

(18)
When using a DENON Blu-ray/DVD player, is the "**HDMI**" indicator of the fluorescent display lit?
Proceed to "**NO**" when using a Blu-ray/DVD player produced by other manufactures.

NO → The Blu-ray/DVD player does not recognize the connection with this unit.
(19)
Does the HPD test point indicate "**Hi**" (3-5V)?
When the Blu-ray/DVD player is connected, check the voltage of the HDMI connector input on the side that the Blu-ray/DVD player is connected to.
Check the waveform of DDC_CLK/DDC_DATA
Is the each TMDS signal 3.3V?
HDMI IN1 : [D7207-D7214]
HDMI IN2 : [D7220-D7227]
HDMI IN3 : [D7234-D7240]
HDMI IN4 : [D7304-D7310]
HDMI IN5 : [D7314-D7320]

NO → The pattern and circuit from HDMI connector [JK721-726] to [IC721, IC731] are faulty.
Replace the [IC721, IC731].

YES

YES

Check operation of the [IC721, IC731].
(Connect the Blu-ray/DVD player to the video input 480P/TV.)
Replace the [IC721, IC731].

(20) Check the power supply device.
① Check whether 1.8V or 3.3V is supplied to [IC721] (each power supply pin).
② Check whether 1.1V or 3.3V is supplied to [IC731] (each power supply pin).

NO → The power supply circuit is faulty.

YES

YES

(20) Check the operation of the oscillator
①[X721 : 28.6363MHz]
②[X731 : 27MHz]
See "3.2. HDMI test point and waveforms"

NO → ①The [X721 or IC721] is faulty.
②The [X731 or IC731] is faulty.
Replace any faulty parts.

YES

(21) Check the Reset signal.
①[IC721 : 97pin]
(If the signal is standard, proceed to "**YES**")
②[IC731 : 115pin]
(If the signal is standard, proceed to "**YES**")
See "3.2. HDMI test point and waveforms"

NO → The RESET pattern or [IC721, IC731] is faulty.
Replace any faulty parts.

YES

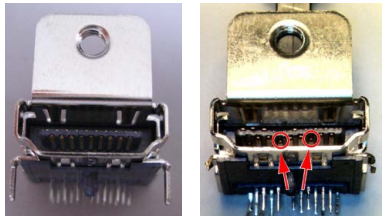
(22) Check the control signal (I2C).
Check the test point (SDA/SCL) waveform
(Proceed to "**YES**" if it is not "**Lo**")
See "3.2. HDMI test point and waveforms"

NO → The SDATA/SCL signal pattern is faulty.

YES

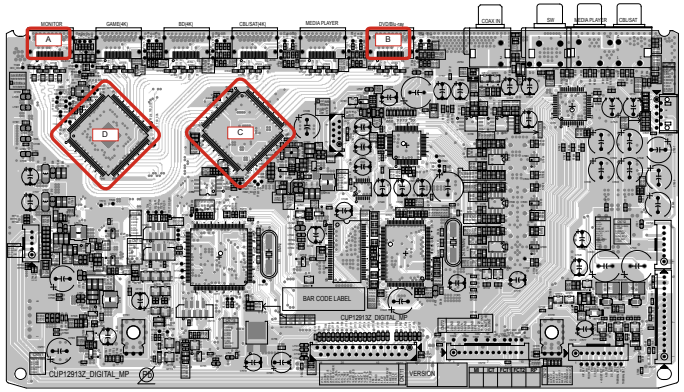
The HDMI output circuit is faulty ([IC721, IC731] and peripheral circuits).
Replace the [IC721, IC731].

Check the HDMI connector *1
Check for deformed pins.

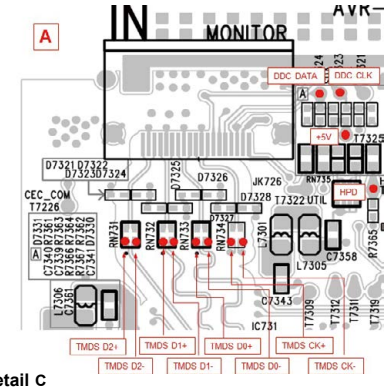


OK NG

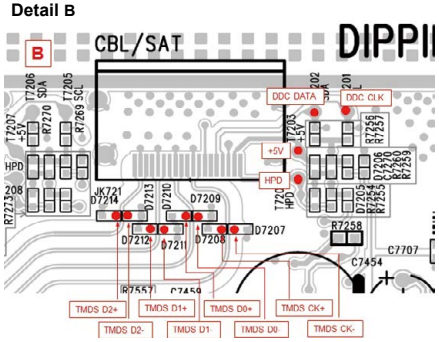
3.2. HDMI test point and waveforms



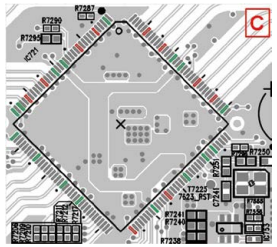
Detail A



Detail B



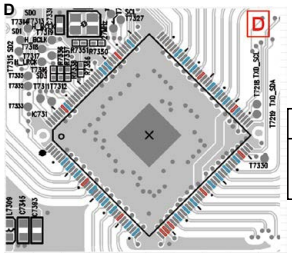
Detail C



:A
:B

A: 3.3V	6, 12, 25, 31, 73, 86, 114, 120, 133, 139 pin
B: 1.8V	2, 18, 21, 34, 36, 37, 45, 55, 61, 81, 93, 100, 103, 110, 126, 129 pin

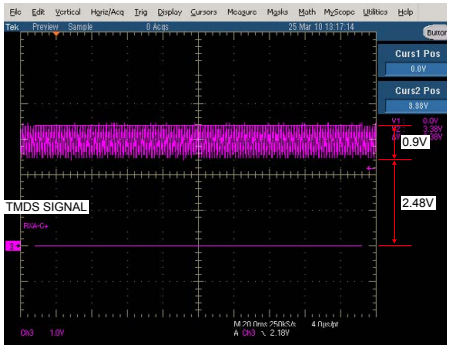
Detail D

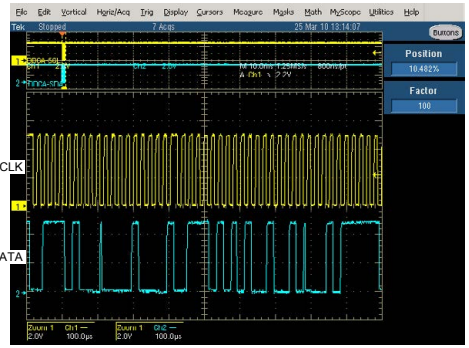


:A
:B

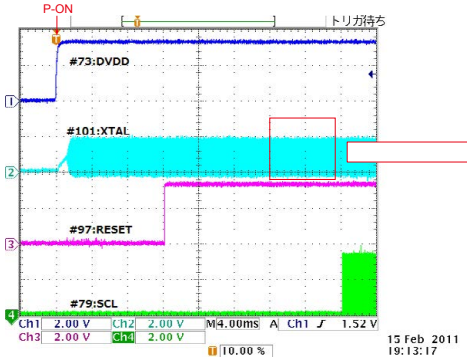
A: 3.3V	15, 29, 38, 39, 41, 54, 69, 79, 92, 117, 130, 138 pin
B: 1.1V	7, 9, 12, 18, 21, 23, 26, 32, 35, 44, 47, 50, 57, 60, 63, 67, 78, 82, 85, 88, 95, 98, 101, 112, 121, 123, 137 pin

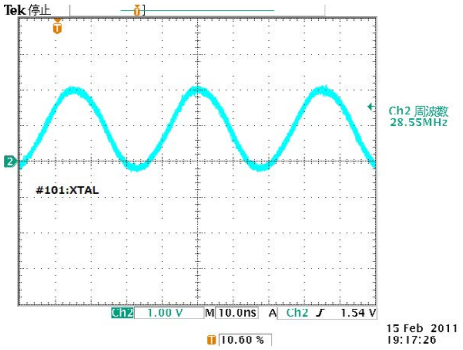
DDC_CLK/DDC_DATA/TMDS : Check items (17),(19)



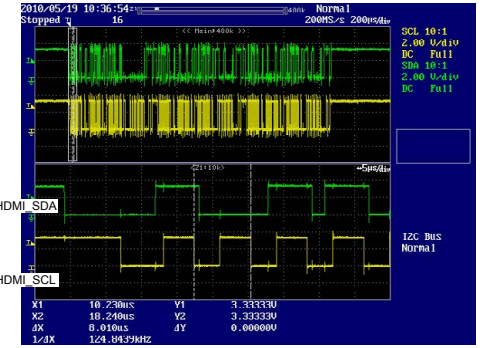


DVDD/XTAL/RESET/SCL : Check items (20),(21),(22)





HDMI_SDA/SCL(I2C) : Check item (23)



4.1. AUDIO CHECK

No audio output

YES

CHECK 1	INPUT	SURROUND MODE	SOURCE
Audio output OK?	ANALOG 2CH	DIRECT	ANALOG

NO → Check the ANALOG AUDIO BLOCK

YES

CHECK 2	INPUT	SURROUND MODE	SOURCE
Audio output OK?	COAX or OPT	-	Legacy (PCM or DolbyDigital or dts…)

NO → Check the DIGITAL AUDIO BLOCK

YES

CHECK 3	INPUT	SURROUND MODE	SOURCE
Audio output OK?	ANALOG 2CH	MULTICH STEREO	ANALOG

NO → Check the ADC BLOCK

YES

CHECK 4	INPUT	SURROUND MODE	SOURCE
Audio output OK?	HDMI	-	Legacy (PCM2ch or DolbyDigital or dts…)

NO → Check the HDMI BLOCK

YES

CHECK 5	INPUT	SURROUND MODE	SOURCE
Audio output OK?	HDMI	-	HD MA audio (DolbyTrueHD or dts HD MA)

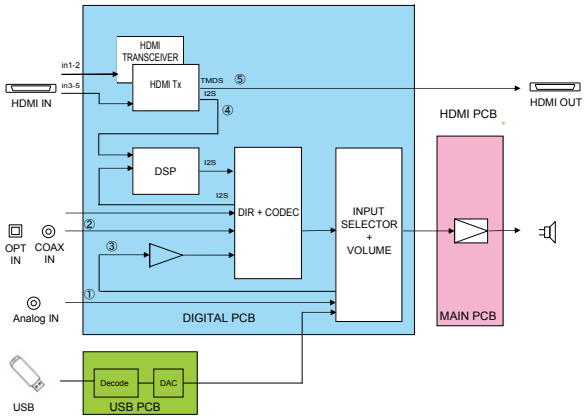
YES (DIGITAL AUDIO BLOCK is OK) → Check for other causes

NO

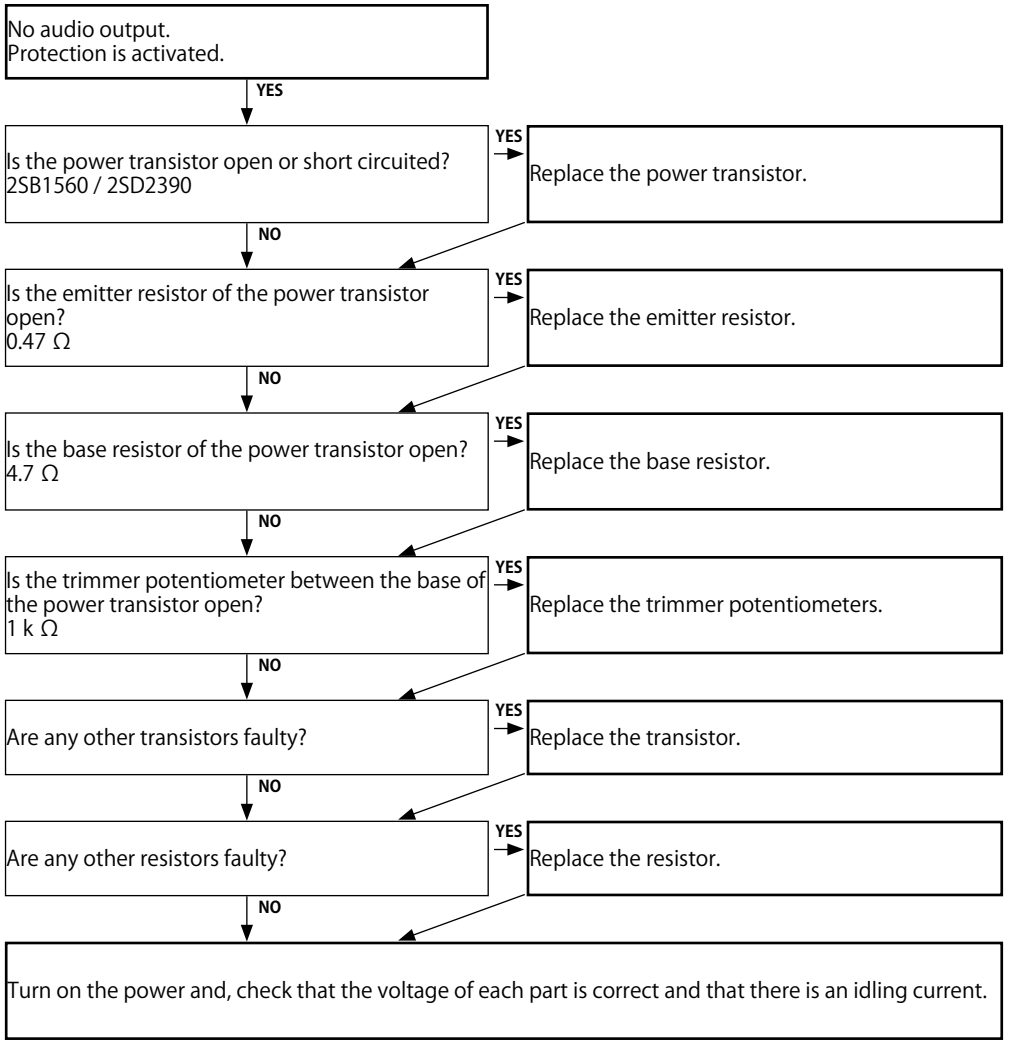
CHECK 6	Setting	SOURCE
HDMI OUT → other AVR HDMI IN	HDMI	HD AUDIO (PCM MULTI or DolbyTrueHD or dts HD MA)

YES → Check the DIGITAL AUDIO BLOCK

NO → Check the HDMI BLOCK



4.2. Power AMP (MAIN PCB)



5.1. Cannot establish a Bluetooth connection

Check the Bluetooth device being used

Are there other Bluetooth devices on close by?
- NO → Turn off other Bluetooth devices.
- YES ↓

Is the Bluetooth device supported by this unit?
- NO → This unit supports devices with A2DP support.
- YES ↓

Checking the unit

Are [USB PCB : CN911 and BT module : BX8811] correctly connected?
- NO → Connect the connectors correctly.
- YES ↓

Can a voltage (3.3V) be confirmed between pin 1 and pin 1 of [CN911] on USB PCB?
- NO → The circuit around [Q7510] of the DIGITAL PCB is faulty.
- YES ↓

[USB PCB : CN911 and BT module : BX8811] peripheral circuits are faulty.

5.2. Cannot recognize the connected USB device

Check the USB device being used

Is a USB hub being used?
- YES → Do not use a USB hub.
- NO ↓

Is the USB device supported by this unit?
- NO → This unit supports devices in the FAT16- and FAT32-formatted mass storage class, MTP-compatible devices and iPod devices (except for some models).
- YES ↓

Checking the unit

Are [BN912 and BN914] correctly connected?
- NO → Connect the connectors correctly.
- YES ↓

Can a voltage (5V) be confirmed between [JK91 : 1-4pin] (USB Connector) on USB PCB?
- NO → The circuit around [IC905] of the DIGITAL PCB is faulty.
- YES ↓

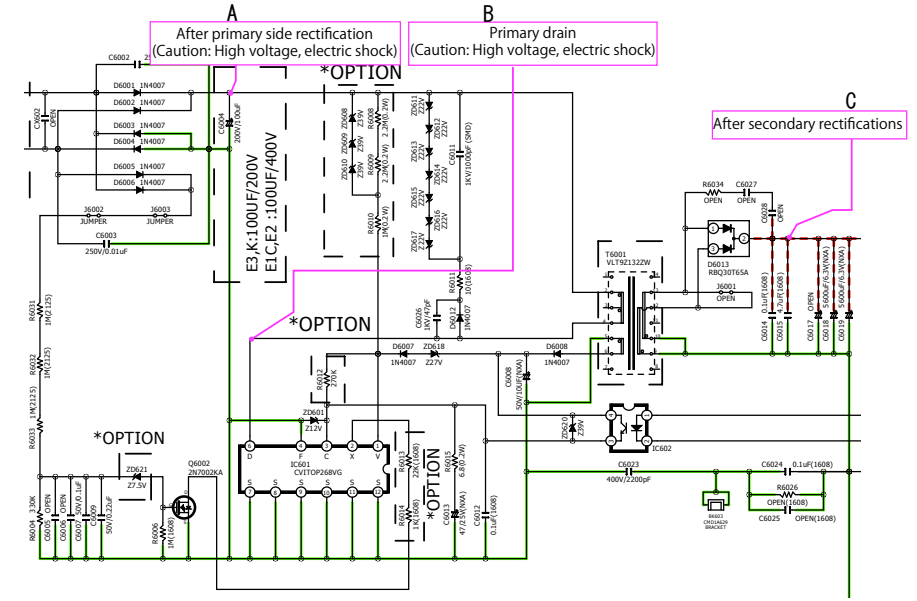
The USB signal circuit from [IC901] to [JK91] on the USB PCB are faulty.

6. SMPS

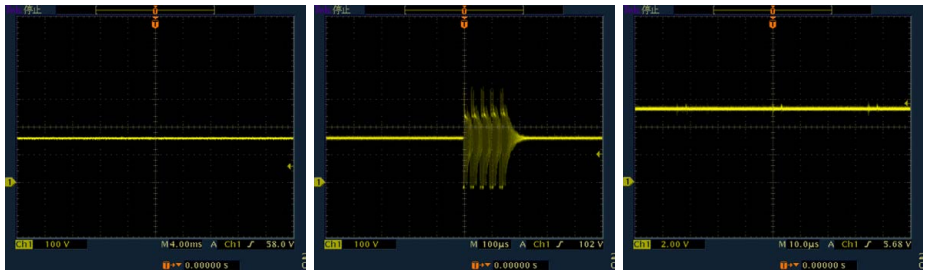
DC 5V is not output.

- Is [IC601 : TOP268VG] damaged?
  - YES → Replace the [IC601 : TOP268VG and D6001, D6002, D6003, D6004].
  - NO ↓
- Is the fuse [F6001] functioning properly?
  - YES → Is [D6001, D6002, D6003, D6004] damaged?
    - YES → Replace the damaged part.
  - NO ↓
- Are there any short circuits caused by the soldering on the PCB?
  - YES → Repair the short circuited area on the PCB.
  - NO ↓
- Are any parts damaged?
  - YES → Check the damaged parts.
    - YES → Replace the damaged part.

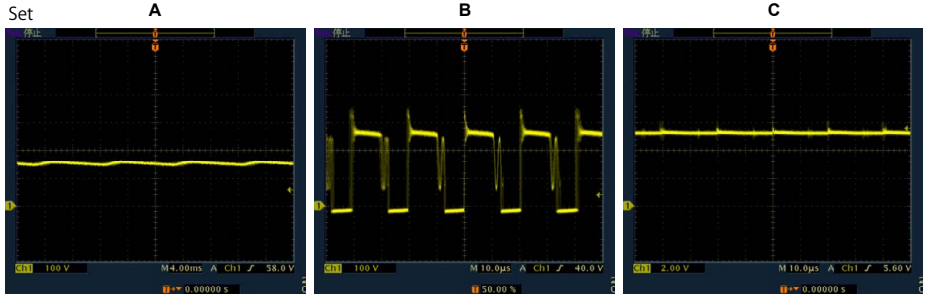
Operation waveform for each part



SMPS unit (Unloaded)

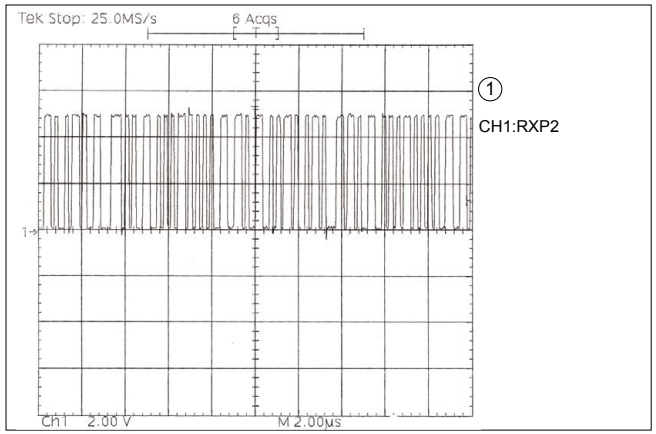


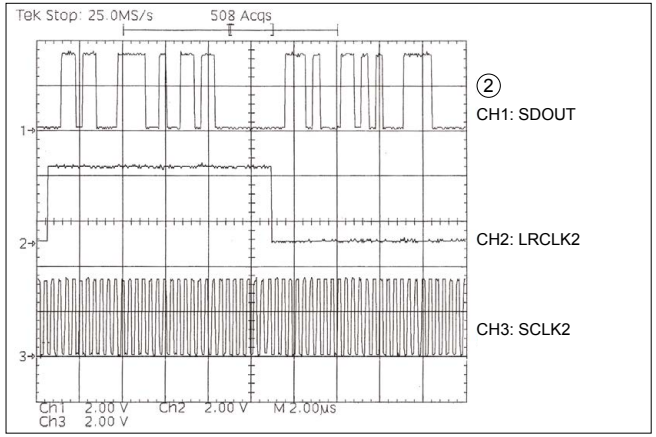
Set

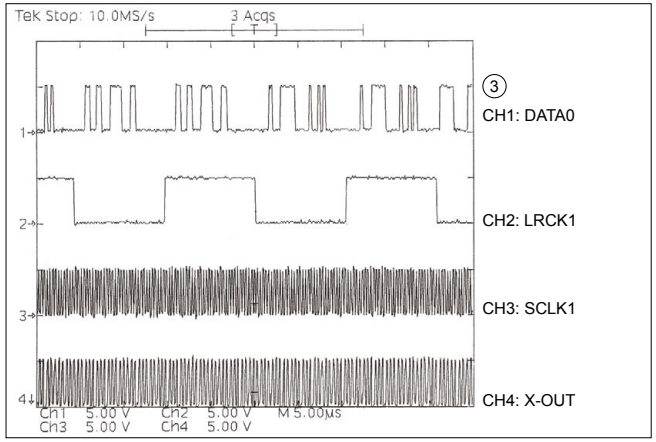


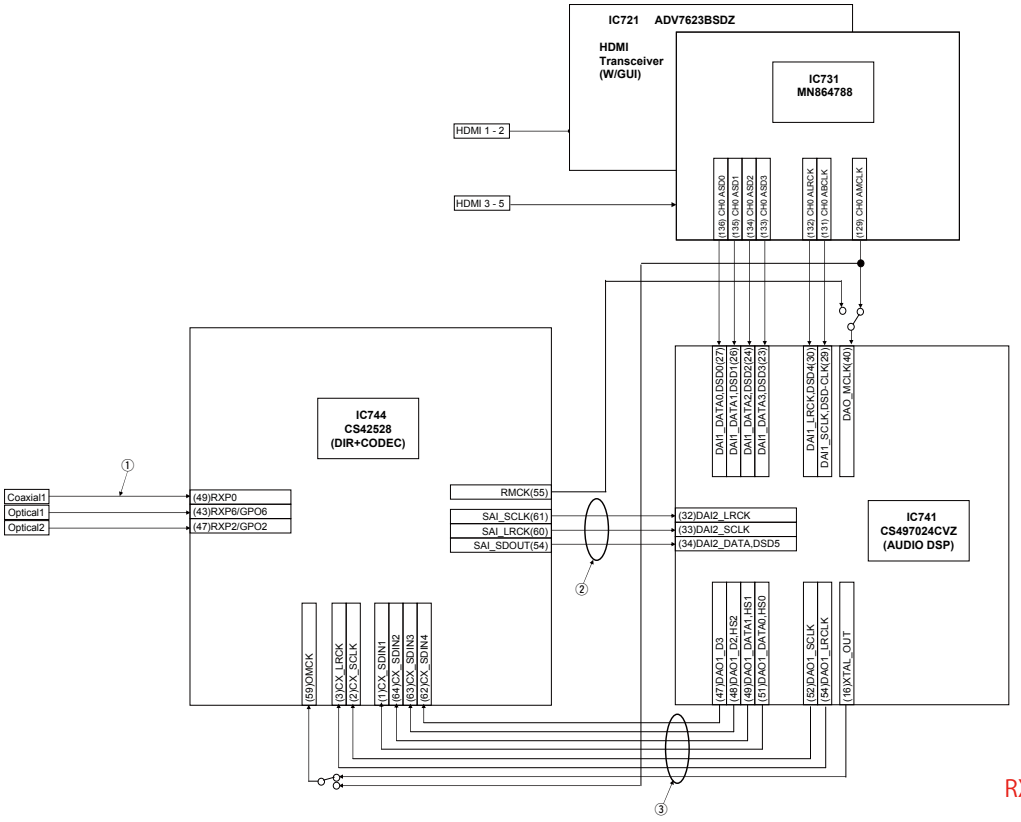
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

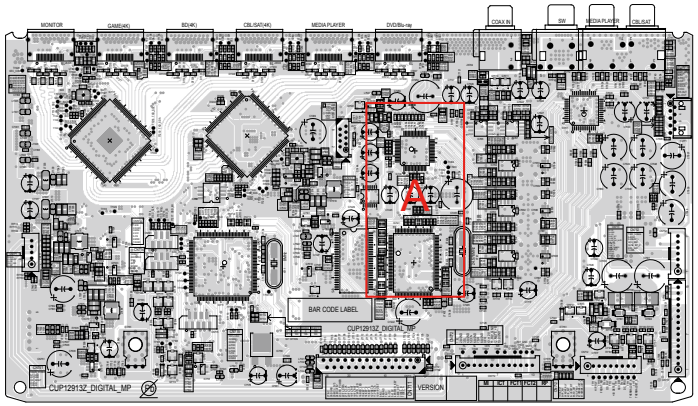
WAVE FORM

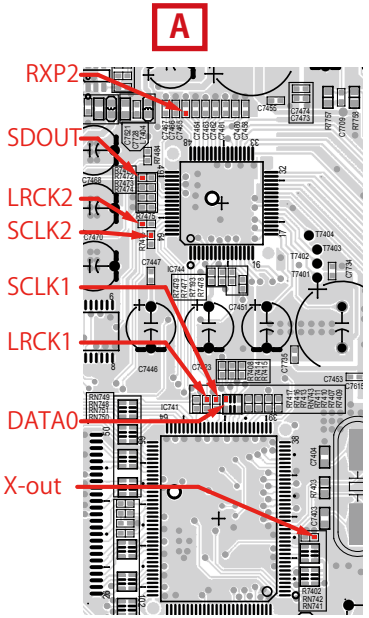










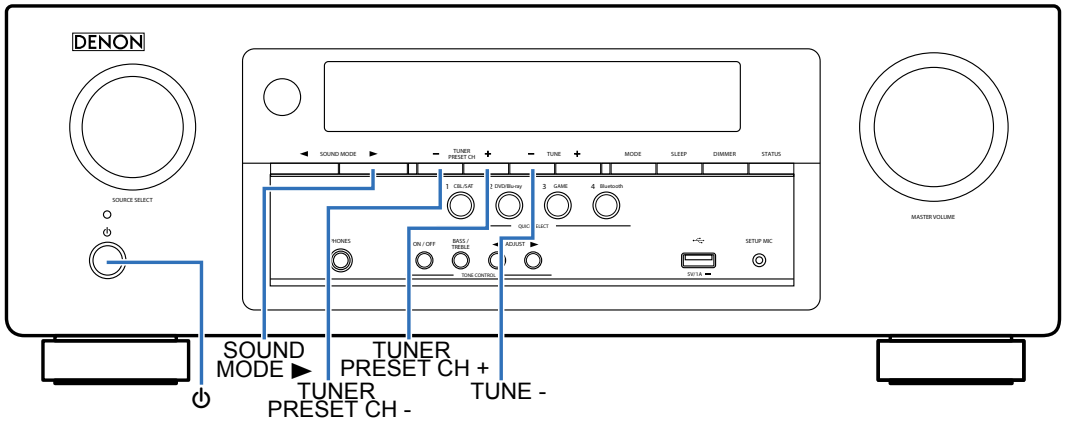


SPECIAL MODE

Special mode setting button AVR-S530BT

※ No. 1, 2 : While holding down buttons "**A**" and "**B**" simultaneously, press the power button to turn on the power.
※ No. 3, 4 : While the power is on, hold down buttons "**A**", "**B**", and "**C**" for at least 3 seconds .

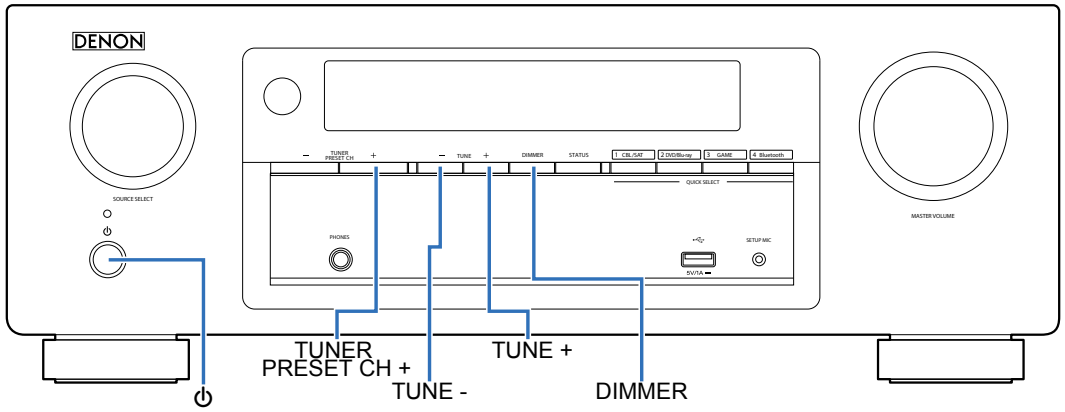
No.	Mode	Button A	Button B	Button C	Descriptions
1	Initialization Mode	SOUND MODE ►	TUNER PRESET CH +	-	Initializes backup data. (See Initializing This Unit AVR-S530BT)
2	Version Display (u-COM / DSP Error Display)	TUNER PRESET CH +	TUNE -	-	The firmware version is shown on the display. Errors that have occurred are displayed. (See 1. Version Display Mode)
3	Video Format and Display Language change mode	TUNER PRESET CH -	TUNER PRESET CH +	TUNE -	Select the following mode. "Video Format" and "Language". (See 2. Video Format and Display Language change mode)
3-1	Video Format	-	-	-	Select or change "NTSC" or "PAL". Default : E2 / E1C PAL、E3 NTSC
3-2	Language	-	-	-	Select or change the language. "ENGLISH" or "SPANISH" or "FRENCH" Default : ENGLISH
4	Product mode	SOUND MODE ►	TUNER PRESET CH -	TUNER PRESET CH +	Select the following mode. "Remote Lock", "Tuning Step Change", "OSD Update", "Protection History Display" and "Mic Mode". (See 3. Product mode)
4-1	Remote Lock mode	-	-	-	This mode prohibits remote control operation.
4-2	Tuner Step Change Mode	-	-	-	Switches the tuning frequency of the tuner.
4-3	OSD Update Mode	-	-	-	Updates the OSD flash ROM in forced power off mode. ※This is not used during servicing.
4-4	Protection history display mode	-	-	-	Displays the protection occurrence history.
4-5	Mic mode	-	-	-	Mode that connects the microphone terminal input to speaker output. ※This is not used during servicing.



Special mode setting button AVR-X540BT

※ No. 1, 2 : While holding down buttons "**A**" and "**B**" simultaneously, press the power button to turn on the power.
※ No. 3, 4 : While the power is on, hold down buttons "**A**", "**B**", and "**C**" for at least 3 seconds .

No.	Mode	Button A	Button B	Button C	Descriptions
1	Initialization Mode	TUNER PRESET CH +	TUNE +	-	Initializes backup data. (See Initializing This Unit AVR-X540BT)
2	Version Display (u-COM / DSP Error Display)	TUNE +	DIMMER	-	The firmware version is shown on the display. Errors that have occurred are displayed. (See 1. Version Display Mode)
3	Video Format and Display Language change mode	TUNE -	TUNE +	DIMMER	Select the following mode. "Video Format" and "Language". (See 2. Video Format and Display Language change mode)
3-1	Video Format	-	-	-	Select or change "NTSC" or "PAL". Default : E2 / E1C PAL、E3 NTSC
3-2	Language	-	-	-	Select or change the language. "ENGLISH" or "SPANISH" or "FRENCH" Default : ENGLISH
4	Product mode	TUNER PRESET CH +	TUNE -	TUNE +	Select the following mode. "Remote Lock", "Tuning Step Change", "OSD Update", "Protection History Display" and "Mic Mode". (See 3. Product mode)
4-1	Remote Lock mode	-	-	-	This mode prohibits remote control operation.
4-2	Tuner Step Change Mode	-	-	-	Switches the tuning frequency of the tuner.
4-3	OSD Update Mode	-	-	-	Updates the OSD flash ROM in forced power off mode. ※This is not used during servicing.
4-1	Protection history display mode	-	-	-	Displays the protection occurrence history.
4-5	Mic mode	-	-	-	Mode that connects the microphone terminal input to speaker output. ※This is not used during servicing.



1. Version Display Mode

1.1. Actions

Version information is displayed when the device is started in this mode.

1.2. Starting up

AVR-S530BT

- While holding down buttons "**TUNER PRESET CH+**" and "**TUNE -**" simultaneously, press the power button to turn on the power.

AVR-X540BT

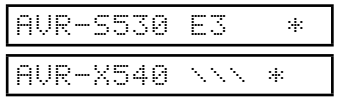
- While holding down buttons "**TUNE +**" and "**DIMMER**" simultaneously, press the power button to turn on the power.

then press the "**STATUS**" button to display the information in section 1.3 on the display.

1.3. Display Order

Error information(See "1.4. Error display") → ① Model destination information → ② Main µ-com → ③ Main IAP → ④ DSP version → ⑤ OSD version → ⑥ USB version

①Model destination information :



\ : Region (E3, E2, E1C)

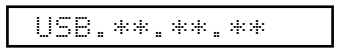
②Main µ-com :

③Main IAP :

④DSP version :

⑤OSD version :

⑥USB version :



1.4. Error display

See the table below for descriptions of the displayed errors and countermeasures for these.
If multiple errors occur, only one item is displayed.

Condition	States	Display
DSP NG	Cannot execute DSP reset in DSP code boot.	DSP ERROR 01
DSP OK	-	(No Error display)

2. Video Format and Display Language change mode

2.1. Actions

Select or change "**NTSC**" or "**PAL**". Select or change the language.

2.2. Starting up

AVR-S530BT

· While the power is On, hold down buttons "**TUNER PRESET CH-**, "**TUNER PRESET CH+**" and "**TUNE -**" for at least 3 seconds.

AVR-X540BT

· While the power is On, hold down buttons "**TUNE -**", "**TUNE +**" and "**DIMMER**" for at least 3 seconds.

2.3. Displaying and Selecting Each Mode

Pressing the button each time switches the display shown as follows.

```
V.Format:<****>
```

AVR-S530BT : "**TUNE +**"
AVR-X540BT : "**STATUS**"

```
Lang.:<*******>
```

①Select Video Format

```
V.Format:<NTSC>
```

AVR-S530BT : "**TUNER PRESET CH+**" or "**TUNE -**"
AVR-X540BT : "**TUNER PRESET CH+**" or "**DIMMER**"

```
V.Format:<PAL>
```

Press the "**1**" button to confirm the displayed mode.
Press the "**1**" button to confirm the displayed mode.
Do not turn off the power until the display switches to the normal mode screen.

②Select Display Language

```
Lang.:<ENGLISH>
```

AVR-S530BT : "**TUNER PRESET CH+**" or "**TUNE -**"
AVR-X540BT : "**TUNER PRESET CH+**" or "**DIMMER**"

```
Lang.:<SPANISH>
```

AVR-S530BT : "**TUNER PRESET CH+**" or "**TUNE -**"
AVR-X540BT : "**TUNER PRESET CH+**" or "**DIMMER**"

```
Lang.:<FRENCH >
```

AVR-S530BT : "**TUNER PRESET CH+**" or "**TUNE -**"
AVR-X540BT : "**TUNER PRESET CH+**" or "**DIMMER**"

```
Lang.:<CHINESE>
```

· AVR-S530BT : Press the "**TUNER PRESET -**" button to confirm the displayed mode.
· AVR-X540BT : Press the "**TUNE -**" button to confirm the displayed mode.
Do not turn off the power until the display switches to the normal mode screen.

3. Product mode

1. Actions

Select Remote Lock mode, Tuner Step Change mode, OSD Update mode, Protection History Display mode, Mic mode.

2. Starting up

AVR-S530BT

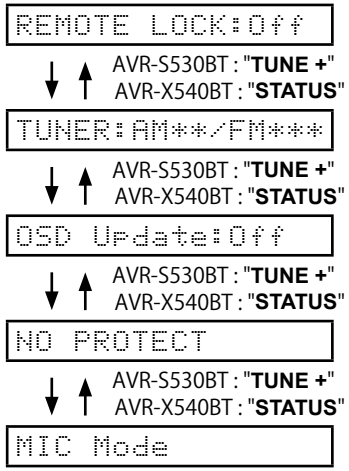
· While the power is On, hold down buttons "**SOUND MODE▶**", "**TUNER PRESET CH-**" and "**TUNER PRESET CH+**" for at least 3 seconds.

AVR-X540BT

· While the power is On, hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**TUNE +**" for at least 3 seconds.

3. Displaying and Selecting Each Mode

Pressing the button each time switches the display shown as follows.



4. Canceling the selected mode

Press the power button to turn off the power.

3-1. Remote Lock mode

3-1.1. Actions

This mode prohibits remote control operation.

3-1.2. Starting up

AVR-S530BT

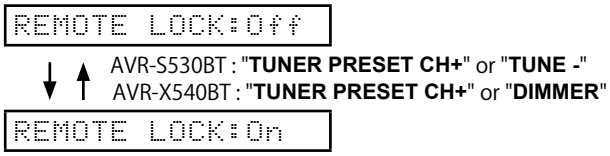
· While the power is On, hold down buttons "**SOUND MODE▶**", "**TUNER PRESET CH-**" and "**TUNER PRESET CH+**" for at least 3 seconds.
Displays "REMOTE LOCK:" using the "**TUNE +**" button.

AVR-X540BT

· While the power is On, hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**TUNE +**" for at least 3 seconds.
Displays "REMOTE LOCK:" using the "**STATUS**" button.

3-1.3. Displays

Pressing the button each time switches the display shown as follows.



AVR-S530BT : Enter using the "**TUNER PRESET CH-**" button.
AVR-X540BT : Enter using the "**TUNE -**" button.

The display then returns to normal mode.

3-2. Tuner Step Change Mode

3-2.1. Actions

Switches the tuning frequency of the tuner.

3-2.2. Starting up

AVR-S530BT

· While the power is On, hold down buttons "**SOUND MODE▶**", "**TUNER PRESET CH-**" and "**TUNER PRESET CH+**" for at least 3 seconds.
Displays "TUNER:" using the "**TUNE +**" button.

AVR-X540BT

· While the power is On, hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**TUNE +**" for at least 3 seconds.
Displays "TUNER:" using the "**STATUS**" button.

3-2.3. Displays

Pressing the button each time switches the display shown as follows.

TUNER:AM9/FM50

AVR-S530BT : "**TUNER PRESET CH+**" or "**TUNE -**"
AVR-X540BT : "**TUNER PRESET CH+**" or "**DIMMER**"

TUNER:AM10/FM200

AVR-S530BT : Enter using the "**TUNER PRESET CH-**" button.
AVR-X540BT : Enter using the "**TUNE -**" button.

The display then returns to normal mode.

※ The step frequency of the tuner is not initialized during initialization.

3-3. OSD Update Mode

This is not used during servicing. Do not use

3-3.1. Operations

Exit the OSD Update mode
Remove the power plug to exit this mode.

OSD Update:Off

3-4. Protection History Display Mode

3-4.1. Actions

This mode enables the unit to record and display the event when the THERMAL, ASO or DC protection is activated.
If protections have been activated multiple times, the latest protection operation is recorded.

3-4.2. Starting up

AVR-S530BT

· While the power is On, hold down buttons "**SOUND MODE▶**", "**TUNER PRESET CH-**" and "**TUNER PRESET CH+**" for at least 3 seconds.
Displays "PROTECT" using the "**TUNE +**" button.

AVR-X540BT

· While the power is On, hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**TUNE +**" for at least 3 seconds.
Displays "PROTECT" using the "**STATUS**" button.

3-4.3. Displays

· The protection history can be checked.
(a) If no protections has occurred.

```
NO PROTECT
```

(b) ASO (if the last protection is ASO)

```
PRT:ASO
```

Cause A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
Note : Short circuits in speaker terminals or speakers can be identified.
If the power is turned on in the abnormal state, protection is activated after around 6 seconds and the power is turned off.

(c) DC (if the last protection is DC)

```
PRT:DC
```

Cause : DC output of the power amplifier is abnormal.
If the power is turned on in the abnormal state, protection is activated after around 6 seconds and the power is turned off.

(d) THERMAL (if the last protection is THERMAL(A) or THERMAL(B))

```
PRT:THERMAL A
```

```
PRT:THERMAL B
```

Cause : Abnormal heat sink temperature.

(e) Case of Power supply (when the last protection incident is Power protection)

```
PRT:Power
```

Cause : Abnormal Power supply(± 12V).

Caution : These protections may also be activated due to other factors such as disconnection of connectors or operations around the microcomputer.
After viewing the above protection history, press the
AVR-S530BT : "**TUNER PRESET CH-**" button
AVR-S530BT : "**TUNE -**" button
to return to the normal display.

3-4.4. Clearing the Protection History

There are two ways to clear the protection history.

(a) Activate Protection History Display Mode.
Press and hold the following button for 3 seconds.

```
PRT:DC
```

↓ AVR-S530BT : Press and hold the "**TUNER PRESET CH-**" button for 3 seconds.
AVR-X540BT : Press and hold the "**TUNE -**" button for 3 seconds.

```
PRT:CLEAR
```

The above message is displayed and the protection history is cleared.

↓

```
NO PROTECT
```

(b) Initialize this unit. (See "CAUTION IN SERVICING.")

※ Use the method in **3-4.4. (a)** if you do not want to erase your settings from this unit.

3-5. Mic Mode

This is not used during servicing. Do not use.

3-3.1. Operations

Exit the Mic Mode
Remove the power plug to exit this mode.

Adjusting Idling Current

1. Preparation

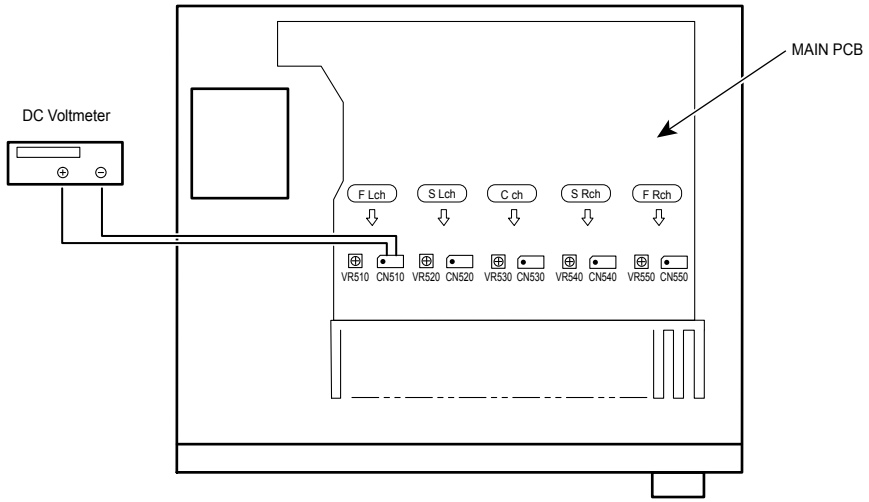
(1) Prepare a DC voltmeter.
(2) Place the unit under normal usage conditions, away from highly ventilated areas such as next to an air conditioning machine or electric fan.
The set requires an ambient temperature of 15℃ to 30℃ and standard humidity.
(3) Settings of This Unit
• POWER (Power source switch) STANDBY
• SPEAKER (Speaker terminal) No load
(Do not connect equipment such as speakers or dummy resistors.)

2. Adjustment Procedure

(1) Remove the top cover and turn **VR510**((ALL Channel) of the MAIN PCB counterclockwise(↺) as far as possible.
(2) Connect the DC Voltmeter to the test points.

FRONT-Lch	: CN510	: VR510
FRONT-Rch	: CN550	: VR550
CENTER ch	: CN530	: VR530
SURROUND-Lch	: CN520	: VR520
SURROUND-Rch	: CN540	: VR540

(3) Connect the power cord to an outlet. Next, press the power button to turn on the power.
(4) Set this unit as follows.
MASTER VOLUME : "---" (↺ min.) : turn counterclockwise to the lowest position.
SPEAKER (Speaker terminal) : No load
(Do not connect equipment such as speakers or dummy resistors.)
MODE : MCH STEREO
FUNCTION : CBL / SAT
(5) Turn **VR510** clockwise (↻) and adjust the voltage of the test point to "**2.0mV ± 0.5mV DC**" within 2 minutes.
(6) Check whether the voltage is within the range "**2.0mV +2mV/-1mV DC**" 10 minutes after adjustment.
(7) Adjust the variable resistance of each channel using the same method.



UPDATING

PROCEDURE AFTER REPLACING THE PCB.

PROCEDURE AFTER REPLACING THE U-COM, ETC.

FIRMWARE UPDATE PROCEDURE

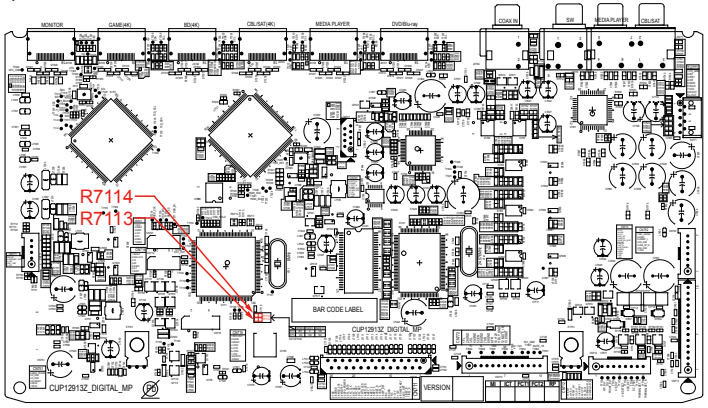
PROCEDURE AFTER REPLACING THE PCB.

The procedure after replacing the printed circuit boards is as follows.
(1) Change the resistor for setting the region.

Model Area	DIGITAL PCB	
	R7113	R7114
S530BT (E3)	4.7K	10K
X540BT (E2)	OPEN	10K
X540BT (E1C)	10k	10k

See the PCB below.

(2) Be sure to replace the software with the latest version.



PROCEDURE AFTER REPLACING THE U-COM, ETC.

The procedure after replacing the u-COM (microprocessor), flash ROM, etc. is as follows.
Implement the update method when the DIGITAL PCB or network module is replaced.

PCB Name	Ref. No.	Description	Procedure after Re-placement	Remark
DIGITAL	IC711	STM32F101ZG	B	SOFTWARE : Main
DIGITAL	IC722	MX25L3206EM2I-12G	B	SOFTWARE : GUI ROM
DIGITAL	IC742	MX25L8006EM2I-12G	B	SOFTWARE : DSP ROM

Procedure after Replacement

A : The software has been written. The software is not written at the time of replacement.
B : The software has been written. The software may need to be rewritten by version updates. Check the version.
C : The software has not been written. The software needs to be written after replacement.
See "FIRMWARE UPDATE PROCEDURE" for information on writing the software.
D : The software has been written. Be sure to replace the software with the latest version.
See "FIRMWARE UPDATE PROCEDURE" for information on writing the software.

FIRMWARE UPDATE PROCEDURE

1. Items necessary for update

Items necessary for update are as follows.

Update Type	Needed Part for Update	Requirement	Offered / not Offered		
			Standard Service Equipment Not offered by D&M	Purchase from D&M Article code	Download from SDI
Via USB	USB Stick (USB 2.0 : Min 1GB)	Formatting FAT 32	X	-	2. Update preparation with a USB flash drive

2. Update preparation with a USB flash drive

You can update the firmware by downloading the latest version with USB flash drive.

2.1. Connecting to the USB flash drive

(1) Preparation

・Windows PC

・USB flash drive format : Prepare a USB flash drive formatted in FAT16 or FAT32.

※We recommend a USB flash drive that has an LED installed.

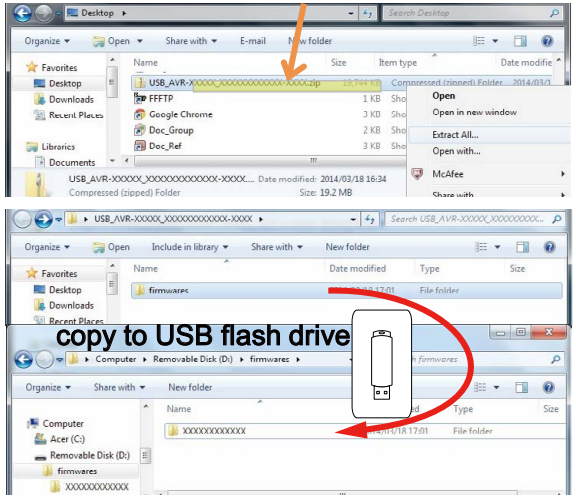
NOTE :

- Use a memory that supports USB2.0.
- Do not run the USB flash drive through a hub.
- Do not connect a computer to the USB port of this unit using a USB cable.
- Do not use an extension cable when connecting the USB flash drive.
- Save the update file on a blank USB flash drive for use.
- If a USB flash drive cannot be updated, replace it with a different USB flash drive and perform the update again.

2.2. Unzipping the Downloaded File

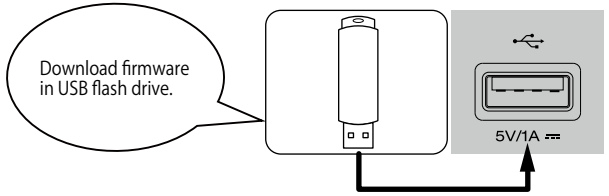
Unzip the downloaded file on your computer.

XXXXXXXXXXX	xxxxxxxxxx_xxxxxxxx.zip



There are folders or files after unzipping.
Copy these folders or files onto the USB flash drive.
The folders or files must be placed in the root directory of the USB flash drive.

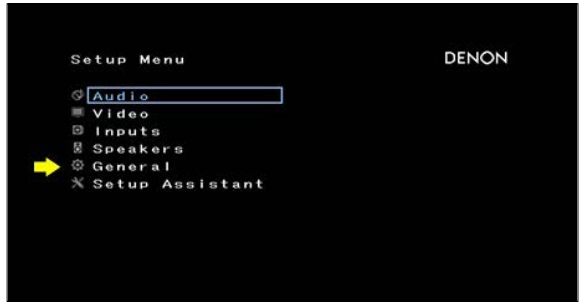
2.3. Insert the USB memory into the USB port.



2.4. Start the update.

Turn on the power of this unit.
Press the "**SETUP**" button on the remote control.

(1) Select "**General**".

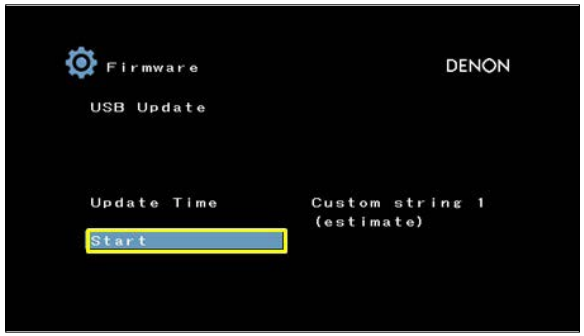


General

(2) Select "**Firmware**".

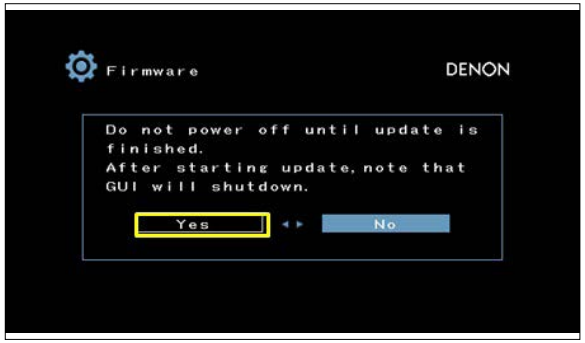
Firmware

(3) Press the "**ENTER**" button.



Firmware :Start

(4) Select "**Yes**". Press "**ENTER**" button.



Firmware :Yes

Update Time**:**

(5) After updating the firmware, check the version.
See "1. Version Display Mode"

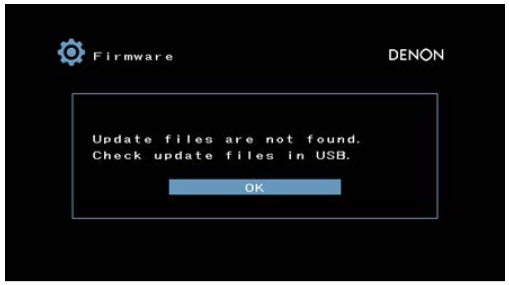
---Cautions on Firmware Update---

- Do not remove the USB flash drive until updating is completed.
- Do not turn off the power until updating is completed.
- It takes around 35 minutes to complete the update.

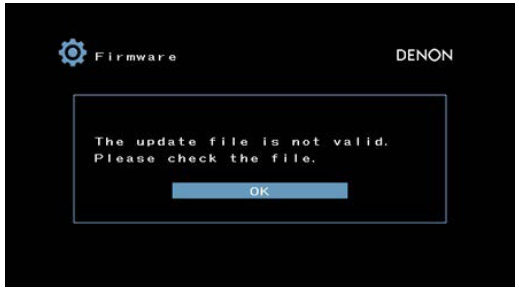
Once an update is started, normal operations cannot be performed until it is completed.
The GUI menu settings and image adjustment settings of this unit may be initialized.
Note down the settings before updating, and set them again after updating.

2.5. About the error codes

No FirmwareFile in USB.



FirmwareFile in USB for unsupported Model name/area



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USB PCB ASS'Y

※Parts indicated by "nsp"on this table cannot be supplied. Part indicated by "@" mark is not illustrated in the exploded view.

※The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

NOTE:The symbols in the column Remarks indicate the following destinations.

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D1401	943202501230S	DIODE, ZENER(5.1V/0.5W, SOD-123)		CVDMM1Z525V1B	1		
	D1404	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D1405	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D9010	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D9011	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D9012	963209003510S	DIODE , RELIABLE ESD PROTECTION		CVDCDS3C05HDMI1	1		
	D9013	963209003510S	DIODE , RELIABLE ESD PROTECTION		CVDCDS3C05HDMI1	1		
	D9014	963209003510S	DIODE , RELIABLE ESD PROTECTION		CVDCDS3C05HDMI1	1		
	D9015	963209003510S	DIODE , RELIABLE ESD PROTECTION		CVDCDS3C05HDMI1	1		
	IC101	943232100540S	I.C , DUAL OPAMP(SOP-8P)		CVINJM4580CG	1		
	IC901	943243102260D	I.C , SYSTEM CONTROLLER(TQFP-128P)		CVIBX8804	1		
	IC902	943246101120S	I.C , 64M SDRAM		CVIW9864G6KH-6	1		
	IC903	23671011050AS	I.C , IPOD AUTHENTICATION FROM D&M		CVI23671011050AS_DM	1		
	IC904	943189101710S	I.C, USB_BLUETOOTH(AVRS530BT,AVRX540BT)		VVIANAM2406AV	1	*	
	IC905	943239101090S	I.C , High side switch (TSSOP-B8)		CVIBD82065FVJ-E2	1		
	IC906	943239100690S	I.C , 2CH DAC(32BIT,384KHZ,TSSOP-20P)		CVIPCM5100PWR	1		
	IC909	943231101880D	IC, regulator(1.2V , SSOP5)		CVIBU12TD3WG	1		
	IC910	943231102170S	IC, regulator(3.3V , SSOP5)		CVIBU33TD3WG	1		
	RESISTOR GROUP							
	R1027	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1401	nsp	RES, CHIP(1005/5%/56Kohm)		CRJ06IJ563T	1		
	R1402	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R1403	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1404	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1405	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R1406	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1407	nsp	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R1408	nsp	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T	1		
	R1409	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1411	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R9010	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9012	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R9017	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9018	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R9019	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R9020	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R9022	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9023	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9024	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9026	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9028	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9029	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9030	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9031	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9032	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R9033	nsp	RES, CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
	R9034	nsp	RES, CHIP(1005/5%/220ohm)		CRJ06IJ221T	1		
	R9035	nsp	RES, CHIP(1005/5%/220ohm)		CRJ06IJ221T	1		
	R9036	nsp	RES, CHIP(1005/5%/220ohm)		CRJ06IJ221T	1		
	R9037	nsp	RES, CHIP(1005/5%/220ohm)		CRJ06IJ221T	1		
	R9038	nsp	RES, CHIP(1005/5%/220ohm)		CRJ06IJ221T	1		
	R9041	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9042	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9043	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9044	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9045	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9046	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9047	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9048	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9049	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9050	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9051	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9052	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9053	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9054	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9055	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9056	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9057	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9058	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9059	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9060	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9061	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	1		
	R9066	nsp	RES, CHIP(1005/5%/560ohm)		CRJ06IJ561T	1		
	R9067	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9068	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9069	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9070	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R9071	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R9072	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R9073	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R9074	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R9075	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R9076	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R9077	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R9078	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R9079	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9080	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9081	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9082	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9083	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9084	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9085	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9086	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R9088	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9089	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R9090	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R9091	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R9092	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R9093	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	RN901	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN902	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN903	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN904	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN905	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN906	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN907	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN908	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN909	nsp	RES, CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	1		
	CAPACIITORS GROUP							
	C1401	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1402	nsp	CAP, SMD ELECT(50V/1uF)		CCEC1HMVG1R0T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1403	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	1		
	C1405	nsp	CAP,ALUMINUM ELECTROLYTIC (16V/10uF)		CCEC1CMVG100T	1		
	C1406	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1407	nsp	CAP,ALUMINUM ELECTROLYTIC CAPACITORS(16V/100uF)		CCEC1CMVG101T	1		
	C1408	nsp	CAP, CHIP(1608, 50V/27pF, C0G)_SAMSUNG		CCUS1H270JAS	1		
	C1410	nsp	CAP,ALUMINUM ELECTROLYTIC (16V/10uF)		CCEC1CMVG100T	1		
	C1411	nsp	CAP,ALUMINUM ELECTROLYTIC (16V/10uF)		CCEC1CMVG100T	1		
	C1413	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1414	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1415	nsp	CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG		CCUS1H102KCS	1		
	C1416	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1417	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9010	nsp	CAP,ALUMINUM ELECTROLYTIC (6.3V/220uF)		CCEC0JMVG221T	1		
	C9011	nsp	CAP,ALUMINUM ELECTROLYTIC (6.3V/220uF)		CCEC0JMVG221T	1		
	C9012	nsp	CAP,ALUMINUM ELECTROLYTIC (6.3V/47uF)		CCEC0JMVG470T	1		
	C9014	nsp	CAP,ALUMINUM ELECTROLYTIC (16V/10uF)		CCEC1CMVG100T	1		
	C9015	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9016	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9017	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9018	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9019	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9020	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9021	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9022	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9023	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9026	nsp	CAP, CHIP(1608, 50V/2200pF, X7R)_SAMSUNG		CCUS1H222KCS	1		
	C9027	nsp	CAP, CHIP(1608, 50V/2200pF, X7R)_SAMSUNG		CCUS1H222KCS	1		
	C9028	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9029	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9030	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9033	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C9034	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C9035	nsp	CAP, CHIP(1608, 6.3V/2.2uF, X7R)_SAMSUNG		CCUS0J225KCS	1		
	C9036	nsp	CAP, CHIP(1608, 6.3V/2.2uF, X7R)_SAMSUNG		CCUS0J225KCS	1		
	C9039	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9040	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9041	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9042	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9043	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9044	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9045	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9046	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9047	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9048	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9049	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9050	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9051	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9052	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9053	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9054	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9055	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9056	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9058	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9059	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9060	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9061	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9062	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9063	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9064	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C9065	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C9066	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C9067	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C9068	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C9069	nsp	CAP, CHIP(1005, 50V/10pF, C0G)_SAMSUNG		CCUI1H100JAS	1		
	C9072	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9073	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9074	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9075	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9076	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9077	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9078	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9079	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9080	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9081	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9082	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9083	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9084	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9085	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C9086	nsp	CAP, CHIP(1005, 50V/15pF, C0G)_SAMSUNG		CCUI1H150JAS	1		
	C9087	nsp	CAP, CHIP(1005, 50V/15pF, C0G)_SAMSUNG		CCUI1H150JAS	1		
	C9088	nsp	CAP, CHIP(1005, 50V/220pF, C0G)_SAMSUNG		CCUI1H221JAS	1		
	C9089	nsp	CAP, CHIP(1005, 50V/220pF, C0G)_SAMSUNG		CCUI1H221JAS	1		
	C9090	nsp	CAP, CHIP(1005, 50V/33pF, C0G)_SAMSUNG		CCUI1H330JAS	1		
	C9091	nsp	CAP, CHIP(1005, 50V/33pF, C0G)_SAMSUNG		CCUI1H330JAS	1		
	C9092	nsp	CAP, CHIP(1005, 50V/33pF, C0G)_SAMSUNG		CCUI1H330JAS	1		
	C9093	nsp	CAP, CHIP(1005, 50V/33pF, C0G)_SAMSUNG		CCUI1H330JAS	1		
	C9094	nsp	CAP, CHIP(1005, 50V/47pF, C0G)_SAMSUNG		CCUI1H470JAS	1		
	C9095	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9096	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9097	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9098	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9099	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9100	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9103	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9109	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9110	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9111	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9112	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9113	nsp	CAP,ALUMINUM ELECTROLYTIC (16V/10uF)		CCEC1CMVG100T	1		
	C9114	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9115	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9116	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9117	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9118	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9119	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9120	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9121	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9122	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9123	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9124	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9125	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9126	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9127	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9128	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9129	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C9130	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	OTHER PARTS GROUP							
	BN912	nsp	WIRE ASS'Y Locking (YH-CKM)15P,2MM,280MM,#26,105'C		VWB7B015280HC	1	*	
	BN914	nsp	WIRE ASS'Y Locking(YH-CKM)7P,2.0MM,280MM,#26,105'C		VWB7B007280HC001	1	*	

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	CN911	nsp	WAFER , CARD CABLE (SMD, 09P-1mm, ANGLE, H : 2mm)		CJP10GB310ZY	1		
	JK105	943643102930S	JACK, STEREO, 3.5mm MINI, BLACK MOLD		CJJ2D029Z	1		
	JK91	943643101590S	JACK, USB STRAIGHT(BLACK 1.5A)		CJJ9X010Z	1		
	L1401	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L9010	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L9011	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L9013	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L9014	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L9015	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L9018	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L9019	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L9023	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L9024	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L9026	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L9027	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	X9001	943141100610S	X-TAL, SMD 3.2X2.5, 12.000MHz, 10PF		COX12000I100ST	1		

FRONT PCB ASS'Y

※Parts indicated by "nsp"on this table cannot be supplied. Part indicated by "@" mark is not illustrated in the exploded view.

※The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

NOTE:The symbols in the column Remarks indicate the following destinations.

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D1001	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D1003	943202501110S	DIODE, ZENER, 1/2W, 6.8V		CVDZJ6V8BL	1		
	D1005	943202501120S	DIODE, ZENER, 1/2W, 39V		CVDZJ39BL	1		
	D1012	943176010090S	L.E.D,(GREEN/RED 5PI)		CVDBLBJEGJ204L	1		
	Q1001	943219006820S	T.R		CVTKTC1027YT	1		
	Q1003	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q1004	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q1005	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q1006	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q1008	00D2690184907	T.R , CHIP , SOT-23		HVTKRA102S	1		
	Q1009	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q1011	00D2690184907	T.R , CHIP , SOT-23		HVTKRA102S	1		
	Q1012	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q1013	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q1014	943219006820S	T.R		CVTKTC1027YT	1		
	Q1015	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q1016	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	RESISTOR GROUP							
	R1001	nsp	RES, CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T	1		
	R1004	nsp	RES, CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T	1		
	R1005	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R1006	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R1007	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R1008	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R1009	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R1010	nsp	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	1		
	R1012	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1013	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1014	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1015	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1016	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1017	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1018	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1019	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1020	nsp	RES, CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R1021	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R1025	nsp	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	1		
	R1026	nsp	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	1		
	R1030	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1		
	R1041	nsp	RES, CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	1		
	R1042	nsp	RES, CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	1		
	R1043	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1046	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1053	nsp	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R1057	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R1058	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R1059	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R1060	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1061	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1067	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1		
	R1068	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1069	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R1071	nsp	RES, CHIP(1608/5%/5.6Kohm)	E3	CRJ10DJ562T	1		
	R1072	nsp	RES, CHIP(1608/5%/3.3Kohm)	E3	CRJ10DJ332T	1		
	R1073	nsp	RES, CHIP(1608/5%/2.7Kohm)	E3	CRJ10DJ272T	1		
	R1074	nsp	RES, CHIP(1608/5%/1.5Kohm)		CRJ10DJ152T	1		
	R1075	nsp	RES, CHIP(1608/5%/1Kohm)	E3	CRJ10DJ102T	1		
	R1075	nsp	RES, CHIP(1608/5%/0ohm)	E2,E1C	CRJ10DJ0R0T	1		
	R1076	nsp	RES, CHIP(1608/5%/5.6Kohm)	E3	CRJ10DJ562T	1		
	R1077	nsp	RES, CHIP(1608/5%/3.3Kohm)	E3	CRJ10DJ332T	1		
	R1078	nsp	RES, CHIP(1608/5%/2.7Kohm)	E3	CRJ10DJ272T	1		
	R1079	nsp	RES, CHIP(1608/5%/1.5Kohm)	E3	CRJ10DJ152T	1		
	R1079	nsp	RES, CHIP(1608/5%/0ohm)	E2,E1C	CRJ10DJ0R0T	1		
	R1080	nsp	RES, CHIP(1608/5%/1Kohm)	E3	CRJ10DJ102T	1		
	R1080	nsp	RES, CHIP(1608/5%/0ohm)	E2,E1C	CRJ10DJ0R0T	1		
	R1081	nsp	RES, CHIP(1608/5%/5.6Kohm)	E3	CRJ10DJ562T	1		
	R1082	nsp	RES, CHIP(1608/5%/3.3Kohm)	E3	CRJ10DJ332T	1		
	R1082	nsp	RES, CHIP(1608/5%/2.7Kohm)	E2,E1C	CRJ10DJ272T	1		
	R1083	nsp	RES, CHIP(1608/5%/2.7Kohm)	E3	CRJ10DJ272T	1		
	R1084	nsp	RES, CHIP(1608/5%/1.5Kohm)		CRJ10DJ152T	1		
	R1085	nsp	RES, CHIP(1608/5%/1Kohm)	E3	CRJ10DJ102T	1		
	R1085	nsp	RES, CHIP(1608/5%/0ohm)	E2,E1C	CRJ10DJ0R0T	1		
	R1090	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1092	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1413	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1414	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1415	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R1416	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R1423	nsp	RES, CARBON(1/5W,47Kohm,J)		CRD20TJ473T	1		
	R1424	nsp	RES, CARBON(1/4W,27Kohm,J)		CRD25TJ273T	1		
	R1425	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R1426	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R1428	nsp	RES, CHIP(1608/5%/220Kohm)		CRJ10DJ224T	1		
	R1429	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1430	nsp	RES, CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	CAPACIITORS GROUP							
	C1002	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C1003	nsp	CAP, ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C1004	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1005	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101E	1		
	C1006	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1007	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT	1		
	C1009	nsp	CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG		CCUC1H104KCS	1		
	C1010	nsp	CAP, ELECT(16V/47uF)-S		CCEA1CKS470T	1		
	C1011	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1013	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	1		
	C1014	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	1		
	C1015	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C1016	nsp	CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG		CCUS1H102KCS	1		
	C1017	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT	1		
	C1019	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C1020	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	1		
	C1038	nsp	CAP, ELECT(16V/47uF)-S		CCEA1CKS470T	1		
	C1039	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	1		
	C1054	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1055	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1065	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1066	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1067	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1068	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1071	nsp	CAP, CHIP(1608, 50V/680pF, C0G)_SAMSUNG		CCUS1H681JAS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1072	nsp	CAP, CHIP(1608, 50V/680pF, C0G)_SAMSUNG		CCUS1H681JAS	1		
	C1073	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1076	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	1		
	C1077	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	1		
	C1081	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1424	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1425	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	1		
	C1426	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	1		
	OTHER PARTS GROUP							
	BK101	nsp	BRACKET , FIP		CMD1A572-V1	1		
	BK102	nsp	BRACKET , FIP		CMD1A572-V1	1		
	BN101	nsp	WIRE ASS'Y B'D-B'D IN (9P,2MM,80MM,#28)		VWB1A009080CC	1	*	
	BN12B1	nsp	WAFER,FFC 1.25mm,ANGLE		CJP27GB286ZN	1		
	BN131	nsp	WIRE ASS'Y Locking (YH) (3P,2MM,50MM,#28)		VWB1A003050HC	1	*	
	CN102	nsp	WAFER/ANGLE/2.5mm/07P		CJP07GB03ZY	1		
	CN103	nsp	LOCK-WAFER/ANGLE/2MM PITCH/3PIN		CJP03GJ288ZY	1		
	CN104	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/3PIN		CJP03GI288ZY	1		
!	F1001	9436525006005	FUSE(932Series, 250V/200mA)		CBA2J0200TLUBT	1		
	FL101	943172100150S	V.F.D (FUTABA, 18-BT-02GINK)		CFL18BT021GINK	1		
	JK104	90M-YT004500R	JACK, PHONES(6.35mm,SILVER)		CJJ2E026Z	1		
	L1001	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1010	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1011	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1012	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1013	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	LUG11	nsp	WIRE ASS'Y		CWE8102100RV	1		
	LUG13	nsp	WIRE ASS'Y		CWE8102180RV	1		
	RC101	943262100140S	SENSOR, REMOTE(37.9KHz)		CRVHM238RT12	1		
	SW101	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW102	00D9430004402	SW , TACT	E3	CST1A012ZT	1		
	SW103	00D9430004402	SW , TACT	E3	CST1A012ZT	1		
	SW104	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW105	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW106	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW107	00D9430004402	SW , TACT	E3	CST1A012ZT	1		
	SW108	00D9430004402	SW , TACT	E3	CST1A012ZT	1		
	SW109	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW110	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW111	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW112	00D9430004402	SW , TACT	E3	CST1A012ZT	1		
	SW113	00D9430004402	SW , TACT	E3	CST1A012ZT	1		
	SW114	00D9430004402	SW , TACT	E3	CST1A012ZT	1		
	SW115	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW116	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW117	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW118	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW119	00D9430004402	SW , TACT	E3	CST1A012ZT	1		
	VR101	943671010330S	ENCODER(16MM, 24PULSES),W/CLICK		CSR2A055Z	1		
	VR102	943671101000D	ENCODER(16MM, 12PULSES)		CSR2A060Z	1		

MAIN PCB ASS'Y

※Parts indicated by "nsp"on this table cannot be supplied. Part indicated by "@" mark is not illustrated in the exploded view.

※The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

NOTE:The symbols in the column Remarks indicate the following destinations.

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D5106	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5206	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5306	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5406	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5506	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5601	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5602	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5603	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5604	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5701	943209500040S	DIODE , BRIDGE(600V/10A)		CVDD10SB60	1		
	D5703	943202501110S	DIODE, ZENER, 1/2W, 6.8V		CVDZJ6V8BL	1		
	D5704	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5806	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D7801	943202501130S	DIODE, ZENER, 1/2W, 5.1V		CVDZJ5V1BL	1		
	D7802	943202501130S	DIODE, ZENER, 1/2W, 5.1V		CVDZJ5V1BL	1		
	IC781	90M-HC109700R	I.C , VIDEO S/W (JRC)		CVINJM2595MTE1	1		
	Q5101	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5102	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5103	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q5104	90M-HT800120R	T.R , BIAS		HVTKTC3114A	1		
	Q5105	90M-HT400490R	T.R , POWER		HVT2SD2390	1		
	Q5106	90M-HT200440R	T.R , POWER		HVT2SB1560	1		
	Q5107	943212500350S	TR, MMBTA92, PNP, SOT-23, KEC		CVTMMBTA92	1	*	
	Q5108	943214500410S	TR, MMBTA42, NPN, SOT-23, KEC		CVTMMBTA42	1	*	
	Q5201	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5202	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5203	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q5204	90M-HT800120R	T.R , BIAS		HVTKTC3114A	1		
	Q5205	90M-HT400490R	T.R , POWER		HVT2SD2390	1		
	Q5206	90M-HT200440R	T.R , POWER		HVT2SB1560	1		
	Q5207	943212500350S	TR, MMBTA92, PNP, SOT-23, KEC		CVTMMBTA92	1	*	
	Q5208	943214500410S	TR, MMBTA42, NPN, SOT-23, KEC		CVTMMBTA42	1	*	
	Q5301	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5302	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5303	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q5304	90M-HT800120R	T.R , BIAS		HVTKTC3114A	1		
	Q5305	90M-HT400490R	T.R , POWER		HVT2SD2390	1		
	Q5306	90M-HT200440R	T.R , POWER		HVT2SB1560	1		
	Q5307	943212500350S	TR, MMBTA92, PNP, SOT-23, KEC		CVTMMBTA92	1	*	
	Q5308	943214500410S	TR, MMBTA42, NPN, SOT-23, KEC		CVTMMBTA42	1	*	
	Q5401	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5402	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5403	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q5404	90M-HT800120R	T.R , BIAS		HVTKTC3114A	1		
	Q5405	90M-HT400490R	T.R , POWER		HVT2SD2390	1		
	Q5406	90M-HT200440R	T.R , POWER		HVT2SB1560	1		
	Q5407	943212500350S	TR, MMBTA92, PNP, SOT-23, KEC		CVTMMBTA92	1	*	
	Q5408	943214500410S	TR, MMBTA42, NPN, SOT-23, KEC		CVTMMBTA42	1	*	
	Q5501	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5502	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5503	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q5504	90M-HT800120R	T.R , BIAS		HVTKTC3114A	1		
	Q5505	90M-HT400490R	T.R , POWER		HVT2SD2390	1		
	Q5506	90M-HT200440R	T.R , POWER		HVT2SB1560	1		
	Q5507	943212500350S	TR, MMBTA92, PNP, SOT-23, KEC		CVTMMBTA92	1	*	
	Q5508	943214500410S	TR, MMBTA42, NPN, SOT-23, KEC		CVTMMBTA42	1	*	
	Q5601	21685002450AS	TR, KRC105S, NPN, SOT-23, KEC		CVTKRC105S	1		
	Q5602	21685002450AS	TR, KRC105S, NPN, SOT-23, KEC		CVTKRC105S	1		
	Q5603	21685002450AS	TR, KRC105S, NPN, SOT-23, KEC		CVTKRC105S	1		
	Q5604	21685002450AS	TR, KRC105S, NPN, SOT-23, KEC		CVTKRC105S	1		
	Q5701	943212500350S	TR, MMBTA92, PNP, SOT-23, KEC		CVTMMBTA92	1	*	
	Q5702	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5703	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q5704	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q5705	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q5806	21685002450AS	TR, KRC105S, NPN, SOT-23, KEC		CVTKRC105S	1	*	
	RESISTOR GROUP							
	R5101	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5102	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R5103	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5104	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R5105	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5106	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R5107	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R5108	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5109	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5110	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5113	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5114	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5115	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5116	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5117	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5118	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5119	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5120	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5121	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5122	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5123	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5124	nsp	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5125	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5126	943252101120S	PTC THEMISTORS, CHIP(85'C)		CRTDHPTF1608471P85T	1	*	
	R5127	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5129	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5130	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5131	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5132	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5201	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5202	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R5203	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5204	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R5205	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5206	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R5207	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R5208	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5209	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5210	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5213	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5214	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5215	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5216	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5217	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R5218	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5219	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5220	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5221	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5222	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5223	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5224	nsp	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5225	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5226	9432521011205	PTC THEMISTORS, CHIP(85'C)		CRTDHPTF1608471P85T	1	*	
	R5227	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5229	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5230	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5231	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5232	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5301	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5302	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R5303	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5304	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R5305	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5306	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R5307	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R5308	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5309	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5310	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5313	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5314	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5315	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5316	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5317	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5318	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5319	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5320	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5321	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5322	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5323	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5324	nsp	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5325	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5326	9432521011205	PTC THEMISTORS, CHIP(85'C)		CRTDHPTF1608471P85T	1	*	
	R5327	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5329	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5330	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5331	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5332	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5401	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5402	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R5403	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5404	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R5405	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5406	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R5407	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R5408	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5409	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5410	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5413	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5414	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5415	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5416	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5417	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5418	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5419	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5420	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5421	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5422	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5423	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5424	nsp	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5425	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5426	9432521011205	PTC THEMISTORS, CHIP(85'C)		CRTDHPTF1608471P85T	1	*	
	R5427	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5429	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5430	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5431	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5432	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5501	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5502	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R5503	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5504	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R5505	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5506	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R5507	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R5508	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5509	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5510	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5513	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5514	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5515	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5516	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	1		
	R5517	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5518	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
	R5519	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5520	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5521	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5522	9431245000050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	1		
	R5523	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5524	nsp	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5525	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5526	9432521011205	PTC THEMISTORS, CHIP(85'C)		CRTDHPTF1608471P85T	1	*	
	R5527	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5529	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5530	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5531	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5532	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5701	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5702	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5703	nsp	RES, M-OXIDE FILM(1W/33ohm)		CRG1SANJ330RT	1		
	R5704	nsp	RES, M-OXIDE FILM(1W/100ohm)		CRG1SANJ101RT	1		
	R5705	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5706	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5711	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	1		
	R5712	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	1		
	R5713	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	1		
	R5715	nsp	RES, M-OXIDE FILM(1W/2.2Kohm)		CRG1SANJ222RT	1		
	R5716	nsp	RES, M-OXIDE FILM(1W/2.2Kohm)		CRG1SANJ222RT	1		
	R5717	nsp	RES, M-OXIDE FILM(1W/2.2Kohm)		CRG1SANJ222RT	1		
	R5721	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5722	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5723	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5724	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5725	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5726	nsp	RES, M-OXIDE FILM(2W/470ohm)		CRG2SANJ471RT	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R5727	nsp	RES, M-OXIDE FILM(2W/470ohm)		CRG2SANJ471RT	1		
	R5728	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R5817	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5818	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5819	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7801	nsp	RES, CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1		
	R7802	nsp	RES, CHIP(1608/1%/82ohm)		CRJ10DF82R0T	1		
	R7803	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R7804	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R7806	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7807	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7808	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7809	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R7810	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R7811	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R7812	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	CAPACIITORS GROUP							
	C5101	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5102	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C5103	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C5104	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5105	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C5106	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C5107	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5108	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5109	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5201	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5202	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C5203	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C5204	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5205	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C5206	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C5207	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5208	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5209	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5301	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5302	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C5303	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C5304	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5305	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C5306	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C5307	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5308	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5309	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5401	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5402	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C5403	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C5404	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5405	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C5406	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C5407	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5408	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5409	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5501	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5502	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C5503	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C5504	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5505	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C5506	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C5507	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C5508	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5509	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5605	nsp	CAP, MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5606	nsp	CAP, MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5607	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5608	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5609	nsp	CAP, MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5610	nsp	CAP, MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5611	nsp	CAP, MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5612	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5613	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5614	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5701	nsp	CAP, MYLAR(50V/0.01uF/J)		HCQI1H103JZT	1		
	C5702	90M-OF100490R	CAP, METAL PE FILM(250V/0.1uF)		KCME2E104JP04T	1		
	C5703	90M-OF100490R	CAP, METAL PE FILM(250V/0.1uF)		KCME2E104JP04T	1		
	C5704	943134010460S	CAP , ELECT (30X35) WITHOUT PLATE ON THE TOP		CCET63VKL5682NKZ	1		
	C5706	943134010460S	CAP , ELECT (30X35) WITHOUT PLATE ON THE TOP		CCET63VKL5682NKZ	1		
	C5707	nsp	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C5708	943134010480S	CAP, ELECT(100V/100uF)		CCEA2AH101E	1		
	C5710	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5711	nsp	CAP, ELECT(6.3V/470uF)		CCEA0JH471T	1		
	C5716	nsp	CAP, ELECT(16V/47uF)		CCEA1CH470T	1		
	C5717	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C5718	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5719	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5720	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5721	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5722	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5723	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7714	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7715	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7801	nsp	CAP, CHIP(1608, 50V/22pF, C0G)_SAMSUNG		CCUS1H220JAS	1		
	C7804	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7805	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7806	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7807	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7810	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7811	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7812	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7813	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7814	nsp	CAP, CHIP(1608, 50V/33pF, C0G)_SAMSUNG		CCUS1H330JAS	1		
	C7815	nsp	CAP, CHIP(1608, 50V/33pF, C0G)_SAMSUNG		CCUS1H330JAS	1		
	OTHER PARTS GROUP							
	BK501	nsp	BRACKET , PCB		CMD1A569-V1	1		
	BN501	nsp	WIRE ASS'Y Locking (YH) (15P,2MM,150MM,#26)		VWB1B013150HC	1	*	
	BN502	nsp	WIRE ASS'Y Locking (YH) (9P,2MM,150MM,#26)		VWB1B009150HC	1	*	
	BN505	nsp	WIRE ASS'Y Locking(YH-CKM)3P,2.0MM,220MM,#26,105'C		VWB7B003220HC	1	*	
	BN508	nsp	PIN HEADER (09P,1.25mm,STRAIGHT,B-TO-B)		CJP09GI281Z	1		
	CN503	nsp	WAFER , 7P(DIP, 3.96PITCH)		CJP07GA90ZY	1		
	CN510	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN520	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN530	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN540	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN550	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN781	nsp	WAFER, FFC(9P-1mm, STRAIGHT)		CJP09GA117ZY	1		
	ET501	nsp	PLATE , EARTH(TRONIC ELECTRONICS)		CJT1A026	1		
	JK503	943643102350S	4P PUSH SPK (RW/BB, NO SPCC, 94V-0)		CJJ5P038Z	1		
	JK504	943643102360S	6P PUSH SPK (GBB/BBB, NO SPCC, 94V-0)		CJJ5R021Z	1		
	JK781	90M-YT002940R	JACK , BOARD		CJJ4S010Z	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	JK782	943262100150S	MODULE , OPTICAL(RX 16MHz)		CJSJSR1124	1		
	JK783	943262100150S	MODULE , OPTICAL(RX 16MHz)		CJSJSR1124	1		
	L5101	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5201	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5301	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5401	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5501	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	RY560	943682000810S	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU	1		
	RY562	943682100610S	RELAY , 981-2A-12DS-SP7 , DC12V , 2C1P		CSL3A022YU	1	*	
	RY563	943682100610S	RELAY , 981-2A-12DS-SP7 , DC12V , 2C1P		CSL3A022YU	1	*	
	RY564	943682100610S	RELAY , 981-2A-12DS-SP7 , DC12V , 2C1P		CSL3A022YU	1	*	
	RY586	943682100520S	RELAY, 942H-2C-12DS, DC12V, 2C2P		CSL4A022ZU	1		
	TU500	943183100680S	TUNER , FM(SCREW : F TYPE), AM , SI4730-D60	E3	CNVYST990-A9U2	1		
	TU500	943183100640S	TUNER , RDS , FM(PAL TYPE) , AM , SI4731-D60	E2	CNVYST990-D8E2	1		
	TU500	943183100500S	TUNER , FM(PAL TYPE) , AM , SI4730-D60	E1C	CNVYST990-A2J1	1		
	VR510	943679100020S	RES , SEMI FIXED (1K , B CURVE)		CVN12A102B03T	1		
	VR520	943679100020S	RES , SEMI FIXED (1K , B CURVE)		CVN12A102B03T	1		
	VR530	943679100020S	RES , SEMI FIXED (1K , B CURVE)		CVN12A102B03T	1		
	VR540	943679100020S	RES , SEMI FIXED (1K , B CURVE)		CVN12A102B03T	1		
	VR550	943679100020S	RES , SEMI FIXED (1K , B CURVE)		CVN12A102B03T	1		

POWER PCB ASS'Y

※Parts indicated by "nsp"on this table cannot be supplied. Part indicated by "@" mark is not illustrated in the exploded view.

※The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

NOTE:The symbols in the column Remarks indicate the following destinations.

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D3001	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D3002	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D3003	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D3004	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D3103	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D3104	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D6001	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6002	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6003	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6004	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6005	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6006	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6007	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6008	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6009	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D6012	943203500730S	DIODE, RECTIFIER, AXIAL		CVD1N4007SL	1		
	D6013	943204500310S	DIODE , Schottky Battier (TO220FN)		CVDRBQ30T65A	1		
	IC301	943232100370S	I.C,REGULATOR(+12V,TO220)		CVIKIA7812BPI	1		
	IC302	00D9430183909	I.C , REGULATOR		HVIKIA7912PI	1		
	IC305	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI	1		
	IC601	943231102160S	I.C , OFF-LINE POWER SWITCH		CVITOP268VG	1		
!	IC602	963239010480S	I.C , PHOTOCOUPLER		CVIPC123Y22FZ0F	1		
	IC603	212050010508S	I.C,SHUNT REGULATOR(TO-92)		CVIKIA2431AP	1		
	IC604	943239100730S	I.C , SYSTEM RESET(4.8V , SOT-25A)		CVIPST8448NR_A	1		
	Q6002	943222500440S	F.E.T , 2N7002KA, N-CH, SOT-23, KEC		CVT2N7002KA	1	*	
	Q6003	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	ZD601	943202501140S	DIODE, ZENER, 1/2W, 12V		CVDZJ12BL	1		
	ZD608	943202501120S	DIODE, ZENER, 1/2W, 39V	E3	CVDZJ39BL	1		
	ZD609	943202501120S	DIODE, ZENER, 1/2W, 39V	E3	CVDZJ39BL	1		
	ZD610	943202501120S	DIODE, ZENER, 1/2W, 39V	E3	CVDZJ39BL	1		
	ZD611	943202501170S	DIODE, ZENER, 1/2W, 22V		CVDZJ22BL	1		
	ZD612	943202501170S	DIODE, ZENER, 1/2W, 22V		CVDZJ22BL	1		
	ZD613	943202501170S	DIODE, ZENER, 1/2W, 22V		CVDZJ22BL	1		
	ZD614	943202501170S	DIODE, ZENER, 1/2W, 22V		CVDZJ22BL	1		
	ZD615	943202501170S	DIODE, ZENER, 1/2W, 22V		CVDZJ22BL	1		
	ZD616	943202501170S	DIODE, ZENER, 1/2W, 22V		CVDZJ22BL	1		
	ZD617	943202501170S	DIODE, ZENER, 1/2W, 22V		CVDZJ22BL	1		
	ZD618	943202501160S	DIODE, ZENER, 1/2W, 27V		CVDZJ27BL	1		
	ZD619	943202501110S	DIODE, ZENER, 1/2W, 6.8V		CVDZJ6V8BL	1		
	ZD620	943202501120S	DIODE, ZENER, 1/2W, 39V		CVDZJ39BL	1		
	ZD621	943202501200S	DIODE, ZENER, 1/2W, 7.5V	E3	CVDZJ7V5BL	1		
	ZD621	943202501180S	DIODE, ZENER, 1/2W, 16V	E2,E1C	CVDZJ16BL	1		
	RESISTOR GROUP							
	R6004	nsp	RES, CARBON(1/5W,330Kohm,J)		CRD20TJ334T	1		
	R6006	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R6008	nsp	RES, CARBON(1/5W,2.2Mohm,J)	E3	CRD20TJ225T	1		
	R6009	nsp	RES, CARBON(1/5W,2.2Mohm,J)	E3	CRD20TJ225T	1		
	R6010	nsp	RES, CARBON(1/5W,1Mohm,J)	E3	CRD20TJ105T	1		
	R6011	nsp	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R6012	nsp	RES, CHIP(1608/5%/270Kohm)	E3	CRJ10DJ274T	1		
	R6012	nsp	RES, CHIP(1608/5%/56Kohm)	E2,E1C	CRJ10DJ563T	1		
	R6013	nsp	RES, CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R6014	nsp	RES, CHIP(1608/5%/1Kohm)	E3	CRJ10DJ102T	1		
	R6014	nsp	RES, CHIP(1608/5%/3Kohm)	E2,E1C	CRJ10DJ302T	1		
	R6015	nsp	RES, CARBON(1/5W,6.8ohm,J)		CRD20TJ6R8T	1		
	R6016	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1		
	R6017	nsp	RES, CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T	1		
	R6018	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R6019	nsp	RES, CHIP(1608/1%/22Kohm)		CRJ10DF2202T	1		
	R6022	nsp	RES, CHIP(1608/1%/6.8Kohm)		CRJ10DF6801T	1		
	R6024	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R6025	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R6027	nsp	RES, CHIP(2012/5%/8.2Mohm)		CRJ18AJ825T	1		
	R6028	nsp	RES, CHIP(2012/5%/8.2Mohm)		CRJ18AJ825T	1		
	R6029	nsp	RES, CHIP(2012/5%/8.2Mohm)		CRJ18AJ825T	1		
	R6030	nsp	RES, CHIP(2012/5%/8.2Mohm)		CRJ18AJ825T	1		
	R6031	nsp	RES, CHIP(2012/5%/1Mohm)		CRJ18AJ105T	1		
	R6032	nsp	RES, CHIP(2012/5%/1Mohm)		CRJ18AJ105T	1		
	R6033	nsp	RES, CHIP(2012/5%/1Mohm)		CRJ18AJ105T	1		
	CAPACIITORS GROUP							
	C3005	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C3006	943134010620S	CAP, ELECT(25V/4700uF)		CCEA1EH472E	1		
	C3007	00MOA33802520	CAP, ELECT(25V/3300uF)		CCEA1EH332E	1		
	C3008	943134502350S	CAP, ELECT(50V/470uF)		CCEA1HH471E	1		
	C3012	943134502350S	CAP, ELECT(50V/470uF)		CCEA1HH471E	1		
	C3013	943134502350S	CAP, ELECT(50V/470uF)		CCEA1HH471E	1		
!	C6001	943132100820S	CAP, CERAMIC(X1/Y1, 0.01uF, AC250V)		CCKDCT103MF	1	*	
!	C6002	943132100820S	CAP, CERAMIC(X1/Y1, 0.01uF, AC250V)		CCKDCT103MF	1	*	
!	C6003	943132100820S	CAP, CERAMIC(X1/Y1, 0.01uF, AC250V)		CCKDCT103MF	1	*	
	C6004	943134501590S	CAP, ELECT(200V/100uF),105'C	E3	CCET200NHA101ES	1		
	C6004	963134010200S	CAP , ELECT (400V/100UF, 18X40, NHA)	E2,E1C	CCET400NHA101ES	1		
	C6007	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6008	00D9430175108	CAP, ELECT(50V/10uF),105'C		CCEA1HNXA100TS	1		
	C6009	nsp	CAP, CHIP(1608, 50V/0.22uF, X5R)_SAMSUNG		CCUS1H224KCS	1		
	C6011	943132100640S	CAP, CHIP(3216, 1000pF, DC1KV, MURATA GRM31)		CCUMUP3A102JAM	1		
	C6012	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6013	00MOA47602520	CAP, ELECT(25V/47uF),105'C		CCEA1ENXA470TS	1		
	C6014	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6015	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C6018	963134010220S	CAP, ELECT(6.3V/5600uF)		CCEA0JNXA562ES	1		
	C6019	963134010220S	CAP, ELECT(6.3V/5600uF)		CCEA0JNXA562ES	1		
	C6020	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6021	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
!	C6023	943132100810S	CAP, CERAMIC(X1/Y1, 2200pF, AC400V)		CCKDCT222ME	1	*	
	C6024	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6026	943139500110S	CAP, CHIP(3216, 1KV/47pF, C0G)_SAMSUNG		CCUP3A470JAS	1		
	C6029	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6030	nsp	CAP, CHIP(1608, 50V/0.015uF, X7R)_SAMSUNG		CCUS1H153KCS	1		
	OTHER PARTS GROUP							
	BK301	nsp	BRACKET , PCB		CMD1A569-V1	1		
	BK303	nsp	BRACKET , PCB		CMD1A387-V1	1		
	BK601	nsp	BRACKET , PCB M3		CMD1A834	1		
	BK602	nsp	BRACKET , PCB M3		CMD1A834	1		
	BK603	nsp	BRACKET , PCB		CMD1A629	1		
	BN301	nsp	WIRE ASS'Y Locking (YH((5P,2MM,130MM,#24)		VWB1C005130HC	1	*	
	BN601	nsp	WIRE ASS'Y (YH-CKM) (6P,2.5MM,220MM,#22)		VWB1D006220BD	1	*	
	CN302	nsp	WAFER/STRAIGHT/2.5mm/5P		CJP05GA01ZY	1		
	CN601	nsp	WAFER, 2P, 3.96mm		CJP02KA060ZY	1		
	CN602	nsp	WAFER, 2P, 7.92mm		CJP02GA89ZY	1		
!	CX601	943139500020S	CAP , POLYPROPYLENE FILM		HCQF2E104KZE	1		
!	CY601	943132100800S	CAP, CERAMIC(X1/Y1, 470pF, AC400V)		CCKDCT471KB	1	*	

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
!	CY602	9431321008005	CAP, CERAMIC(X1/Y1, 470pF, AC400V)		CCKDCT471KB	1	*	
!	F3003	943652500510D	FUSE(932Series, 250V/1.25A)		CBA2J1250TLEBT	1		
!	F3004	943652500510D	FUSE(932Series, 250V/1.25A)		CBA2J1250TLEBT	1		
!	F6001	963652010510S	FUSE(S506 Series, 250V,2A)	E3	CBA2C2000TLEC	1		
!	F6001	963652010500S	FUSE(S506 Series, 250V,1.6A)	E2,E1C	CBA2C1600TLEC	1		
	F6001	nsp	HOLDER , FUSE		KJCFC5S	2		
!	F6002	0520100170060	FUSE(218Series, 250V/5A)	E3	KBA2C5000TLEY	1		
!	F6002	00D9430199109	FUSE(218Series, 250V/2.5A)	E2,E1C	KBA2C2500TLEY	1		
	F6002	nsp	HOLDER , FUSE		KJCFC5S	2		
	L6001	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
!	LF602	963111010230S	LINE FILTER, 27mH	E3	CLZ9Z126Z	1		
!	LF602	9431111004105	LINE FILTER, 50mH	E2,E1C	CLZ9Z133Z	1		
!	RY601	963682010370S	RELAY,HL31-1AT-5H,DC5V,1C1P		CSL1C006ZE	1		
	T6001	943102100720S	TRANS, SWITCHING		VLT9Z132ZW	1		

DIGITAL PCB ASS'Y

※Parts indicated by "nsp"on this table cannot be supplied. Part indicated by "@" mark is not illustrated in the exploded view.

※The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

NOTE:The symbols in the column Remarks indicate the following destinations.

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D7102	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D7105	943202501230S	DIODE, ZENER(5.1V//0.5W, SOD-123)		CVDMM1Z525V1B	1		
	D7106	943202501230S	DIODE, ZENER(5.1V//0.5W, SOD-123)		CVDMM1Z525V1B	1		
	D7501	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D7502	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D7601	943202501530S	DIODE , ZENER(7.5V/0.5W, SOD-323HE)		CVDTFZV7.5B	1	*	
	D7602	943202501530S	DIODE , ZENER(7.5V/0.5W, SOD-323HE)		CVDTFZV7.5B	1	*	
	D7605	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D7606	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D7607	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D7608	943202501210S	DIODE, ZENER(3.6V/0.5W, SOD-123)		CVDMM1Z523V6B	1		
	IC711	943243103500S	I.C, MAIN MCU(AVRS530BT,AVRX540BT) See PROCEDURE AFTER REPLACING THE U-COM, ETC.		VVIANAM2403AV	1	*	
	IC712	943246010440S	I.C , EEPROM (32 Kbit) ST		CVIM24C32WMN6TP	1		
	IC721	943236012460S	I.C , HDMI Transceiver (LQFP-144P)		CVIADV7623BSTZ	1		
	IC722	943248104000S	I.C, OSD(AVRS530BT,AVRX540BT) See PROCEDURE AFTER REPLACING THE U-COM, ETC.		VVIANAM2404AV	1	*	
	IC731	23681050460AS	I.C , HDMI 2.0 Transceiver (HQFP-144P)		CVIMN864788	1		
	IC741	943245010410S	EOL item I.C , DSP (CIRRUS LOGIC)		CVICS497024CVZ	1		
	IC742	943245100940S	I.C, DSP(AVRS530BT,AVRX540BT) See PROCEDURE AFTER REPLACING THE U-COM, ETC.		VVIANAM2405AV	1	*	
	IC743	943236101210S	I.C, 16MB SDRAM(TSOP-50P)		CVIM12L16161A5TG2Q	1		
	IC744	90M-HC110090R	I.C , CODEC + DIR (CIRRUS LOGIC)		HVICS42528-CQ	1		
	IC745	00D2623198902	I.C, QUAD 2-CHANNEL MUX(TSSOP-16)		HVITC74VHC157FT	1		
	IC751	943239101860S	I.C , DC-DC CONVERTER(SOT-23)		CVITPS563200DDCR	1		
	IC752	943239101860S	I.C , DC-DC CONVERTER(SOT-23)		CVITPS563200DDCR	1		
	IC753	943239101860S	I.C , DC-DC CONVERTER(SOT-23)		CVITPS563200DDCR	1		
	IC756	943239010400S	I.C, REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
	IC761	943235100520S	I.C , INPUT WITH 8CH VOLUME(52P LQFP)		CVINJU72340AFH3	1		
	IC762	943232100380S	I.C , DUAL OPAMP(SOP-8P)		CVINJM8080G	1		
	IC763	943232100380S	I.C , DUAL OPAMP(SOP-8P)		CVINJM8080G	1		
	IC764	943232100380S	I.C , DUAL OPAMP(SOP-8P)		CVINJM8080G	1		
	IC766	00MHC10172090	I.C , OP AMP		HVINJM2115MTE1	1		
	IC767	00MHC10172090	I.C , OP AMP		HVINJM2115MTE1	1		
	Q7105	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7106	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7107	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7108	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7109	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q7110	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7111	00D9430072502	T.R , CHIP , SOT-23		HVTKTC2875B	1		
	Q7112	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7113	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7201	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7202	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7203	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7204	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7205	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7206	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7301	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7302	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7303	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7304	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7501	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q7502	00D2757001907	MOSFET (P-CH, 2.5V POWER TRENCH)		CVTFDC608PZ	1		
	Q7503	00D2757001907	MOSFET (P-CH, 2.5V POWER TRENCH)		CVTFDC608PZ	1		
	Q7504	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q7505	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q7506	00D2757001907	MOSFET (P-CH, 2.5V POWER TRENCH)		CVTFDC608PZ	1		
	Q7509	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q7510	00D2757001907	MOSFET (P-CH, 2.5V POWER TRENCH)		CVTFDC608PZ	1		
	Q7512	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7515	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q7516	00D2690192902	T.R , CHIP , SOT-23		HVTKRC102S	1		
	Q7517	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q7518	00D2757001907	MOSFET (P-CH, 2.5V POWER TRENCH)		CVTFDC608PZ	1		
	Q7519	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q7520	00D2757001907	MOSFET (P-CH, 2.5V POWER TRENCH)		CVTFDC608PZ	1		
	Q7521	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q7522	00D2757001907	MOSFET (P-CH, 2.5V POWER TRENCH)		CVTFDC608PZ	1		
	Q7610	00D9430072502	T.R , CHIP , SOT-23		HVTKTC2875B	1		
	Q7612	00D2690191903	T.R , CHIP , SOT-23		HVTKRA104S	1		
	Q7613	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1		
	Q7614	00D2690191903	T.R , CHIP , SOT-23		HVTKRA104S	1		
	RESISTOR GROUP							
	R7101	nsp	RES, CHIP(1005/5%/470Kohm)		CRJ06IJ474T	1		
	R7102	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7103	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7104	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R7107	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7108	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7113	nsp	RES, CHIP(1608/5%/4.7Kohm)	E3	CRJ10DJ472T	1		
	R7113	nsp	RES, CHIP(1608/5%/10Kohm)	E1C	CRJ10DJ103T	1		
	R7114	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7115	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7116	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7127	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7129	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7136	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7137	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7138	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7139	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7143	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7144	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7145	nsp	RES, CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R7147	nsp	RES, CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R7148	nsp	RES, CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R7149	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7150	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7151	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7152	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7153	nsp	RES, CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T	1		
	R7154	nsp	RES, CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T	1		
	R7155	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7156	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7157	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7159	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7160	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7162	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7163	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7164	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7165	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7166	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R7167	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7168	nsp	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	1		
	R7170	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7171	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7172	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7173	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7174	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7175	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7176	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7177	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7178	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7179	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7180	nsp	RES, CHIP(1005/5%/2.2Mohm)		CRJ06IJ225T	1		
	R7181	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7182	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7183	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7184	nsp	RES, CHIP(1005/5%/220Kohm)		CRJ06IJ224T	1		
	R7185	nsp	RES, CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
	R7186	nsp	RES, CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T	1		
	R7187	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7188	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7190	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7191	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7192	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7195	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7196	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7201	nsp	RES, CHIP(1608/1%/1.6Kohm)		CRJ10DF1601T	1		
	R7202	nsp	RES, CHIP(1608/1%/2Kohm)		CRJ10DF2001T	1		
	R7203	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7204	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7206	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7208	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7210	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7211	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7212	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7213	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7214	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7215	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7216	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7218	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7219	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7220	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7221	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7222	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7224	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7228	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7231	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7232	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7233	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7234	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7235	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7236	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	1		
	R7237	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	1		
	R7238	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7239	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7240	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7241	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7242	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7243	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7244	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7245	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7246	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7247	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7248	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7250	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7251	nsp	RES, CHIP(1608/5%/390Kohm)		CRJ10DJ394T	1		
	R7252	nsp	RES, CHIP(1005/1%/1Kohm)		CRJ06IF1001T	1		
	R7253	nsp	RES, CHIP(1005/1%/1Kohm)		CRJ06IF1001T	1		
	R7254	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7255	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7256	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7257	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7258	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7259	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7260	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7261	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7262	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7263	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7264	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7265	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7266	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7267	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7268	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7269	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7270	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7271	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7272	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7273	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7274	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7275	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7276	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7277	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7278	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7279	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7280	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7281	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7282	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7283	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7285	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7286	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7287	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7289	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7291	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7292	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7295	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7296	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7301	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7302	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7303	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7304	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7305	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7306	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7307	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7308	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7311	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7312	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7313	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7314	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7315	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7316	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7317	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7318	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7325	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7333	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7334	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7335	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7336	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7337	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7338	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7339	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7340	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7341	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7342	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7343	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7344	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7345	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7346	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7347	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7348	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7349	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7350	nsp	RES, CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
	R7351	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7352	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7354	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7356	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7360	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7361	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7362	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7363	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	1		
	R7364	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	1		
	R7365	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7366	nsp	RES, CHIP(1608/1%/51ohm)		CRJ10DF51R0T	1		
	R7367	nsp	RES, CHIP(1608/1%/51ohm)		CRJ10DF51R0T	1		
	R7368	nsp	RES, CHIP(1005/5%/6.8Kohm)		CRJ06IJ682T	1		
	R7370	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7371	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7372	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7392	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	1		
	R7393	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	1		
	R7401	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7402	nsp	RES, CHIP(1005/5%/330ohm)		CRJ06IJ331T	1		
	R7403	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7404	nsp	RES, CHIP(1608/1%/5.1Kohm)		CRJ10DF5101T	1		
	R7405	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7406	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7407	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7408	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7412	nsp	RES, CHIP(1608/1%/1.37Kohm)		CRJ10DF1371T	1		
	R7413	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7414	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7415	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7416	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7417	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7418	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7419	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7420	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7422	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7423	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7424	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7425	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7426	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7427	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7428	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7429	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7430	nsp	RES, CHIP(1005/5%/75ohm)		CRJ06IJ750T	1		
	R7431	nsp	RES, CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R7432	nsp	RES, CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R7443	nsp	RES, CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R7444	nsp	RES, CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R7445	nsp	RES, CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R7446	nsp	RES, CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R7447	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7448	nsp	RES, CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R7449	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7450	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7471	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7472	nsp	RES, CHIP(1005/5%/220ohm)		CRJ06IJ221T	1		
	R7473	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7474	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7475	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7476	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7477	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7478	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7482	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7483	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7484	nsp	RES, CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R7501	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7502	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7504	nsp	RES, CHIP(1608/1%/10Kohm)		CRJ10DF1002T	1		
	R7505	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7506	nsp	RES, CHIP(1608/1%/33.2Kohm)		CRJ10DF3322T	1		
	R7507	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7508	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7509	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7511	nsp	RES, CHIP(1608/1%/10Kohm)		CRJ10DF1002T	1		
	R7512	nsp	RES, CHIP(1608/1%/4.7Kohm)		CRJ10DF4701T	1		
	R7513	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7514	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7515	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7517	nsp	RES, CHIP(1608/1%/10Kohm)		CRJ10DF1002T	1		
	R7518	nsp	RES, CHIP(1608/1%/13.7Kohm)		CRJ10DF1372T	1		
	R7519	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7520	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7524	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7525	nsp	RES, CHIP(1005/5%/33Kohm)		CRJ06IJ333T	1		
	R7526	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7527	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7529	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7530	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7533	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7534	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7542	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7543	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7544	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7545	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7546	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7547	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7550	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7551	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7552	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7553	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7554	nsp	RES, CHIP(1005/5%/33Kohm)		CRJ06IJ333T	1		
	R7555	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7556	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7557	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7558	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7561	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7601	nsp	RES, CHIP(1608/5%/270ohm)		CRJ10DJ271T	1		
	R7602	nsp	RES, CHIP(1608/5%/270ohm)		CRJ10DJ271T	1		
	R7603	nsp	RES, CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
	R7604	nsp	RES, CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
	R7605	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7606	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7608	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7611	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7614	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R7615	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7616	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7617	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7618	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7619	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7620	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7621	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7622	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7623	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7624	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7625	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7626	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7627	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7633	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7634	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7637	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7638	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7639	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7640	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7647	nsp	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R7648	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R7649	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7650	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7651	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7652	nsp	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R7653	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7655	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7656	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7657	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7664	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7665	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7666	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7667	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7668	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7670	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7671	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7672	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7673	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7674	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7675	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7676	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7677	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7678	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7679	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7680	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7681	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7682	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7683	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7686	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7687	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7688	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7689	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7690	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7691	nsp	RES, CHIP(1608/0.5%/8.2Kohm)		CRJ06DD822TP	1		
	R7692	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7693	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7694	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7695	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7696	nsp	RES, CHIP(1608/0.5%/8.2Kohm)		CRJ06DD822TP	1		
	R7697	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7698	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7699	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7702	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7703	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7704	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7705	nsp	RES, CHIP(1608/0.5%/2.4Kohm)		CRJ06DD242TP	1		
	R7706	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7707	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7708	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7709	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7710	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7711	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7712	nsp	RES, CHIP(1608/0.5%/3Kohm)		CRJ06DD302TP	1		
	R7713	nsp	RES, CHIP(1608/5%/2Kohm)		CRJ10DJ202T	1		
	R7714	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7715	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7718	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7719	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7723	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7724	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7725	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7726	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7727	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7729	nsp	RES, CHIP(1608/5%/15Kohm)		CRJ10DJ153T	1		
	R7730	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7732	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7736	nsp	RES , CHIP(6432/5%/150ohm/1W)		CRJ01HJ151T	1		
	R7737	nsp	RES , CHIP(6432/5%/150ohm/1W)		CRJ01HJ151T	1		
	R7738	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7741	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7742	nsp	RES, CHIP(1608/5%/15Kohm)		CRJ10DJ153T	1		
	R7744	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7745	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7747	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7748	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7752	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7753	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7754	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7755	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7756	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7757	nsp	RES, CHIP(1608/5%/12Kohm)		CRJ10DJ123T	1		
	R7758	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7762	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7763	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7774	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7775	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7776	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7777	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7778	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7779	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7781	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7811	nsp	RES, CHIP(1005/5%/75ohm)	E3	CRJ06IJ750T	1		
	RN711	nsp	RES, CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	1		
	RN712	nsp	RES, CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	1		
	RN731	nsp	RES, CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	1		
	RN732	nsp	RES, CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	1		
	RN733	nsp	RES, CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	1		
	RN734	943113100000S	COMMON MODE FILTER (1210, 90ohm)		CLZ9Z188Z	1		
	RN735	nsp	RES, CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	1		
	RN741	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	1		
	RN742	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	1		
	RN743	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN744	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN745	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN746	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN747	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN748	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN749	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN750	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN751	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	CAPACIITORS GROUP							
	C7101	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7102	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7103	nsp	CAP, CHIP(1608, 50V/20pF, C0G)_SAMSUNG		CCUS1H200JAS	1		
	C7104	nsp	CAP, CHIP(1608, 50V/20pF, C0G)_SAMSUNG		CCUS1H200JAS	1		
	C7105	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7106	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7110	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7111	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7112	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7113	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7114	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7115	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7116	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7117	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7118	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7119	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7120	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7121	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7124	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7125	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7126	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7127	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7128	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7129	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7130	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7131	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7132	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7133	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7135	nsp	CAP, CHIP(1005, 50V/220pF, C0G)_SAMSUNG		CCUI1H221JAS	1		
	C7136	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7141	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7142	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7143	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7144	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7145	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7201	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7202	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7203	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7204	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7205	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7206	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7207	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7208	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7209	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7210	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7211	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7212	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7213	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7216	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7217	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7218	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7221	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7222	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7223	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7224	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7225	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7226	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7227	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7231	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7234	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7235	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7236	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7237	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7238	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7239	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7240	nsp	CAP, CHIP(1608, 50V/15pF, C0G)_SAMSUNG		CCUS1H150JAS	1		
	C7241	nsp	CAP, CHIP(1608, 50V/15pF, C0G)_SAMSUNG		CCUS1H150JAS	1		
	C7242	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7244	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7245	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7246	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7270	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7271	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7272	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7273	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7274	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7275	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7276	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7277	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7278	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7279	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7280	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7281	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7285	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7301	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7302	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7303	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C7304	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7305	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7306	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7307	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7308	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7309	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7310	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7311	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7312	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7313	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7314	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7315	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7316	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7317	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7318	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7319	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7320	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7321	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7322	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7323	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7324	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7325	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7326	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7327	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7328	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7329	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7330	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7331	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7332	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7333	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7334	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7335	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7336	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7337	nsp	CAP, CHIP(1608, 50V/15pF, C0G)_SAMSUNG		CCUS1H150JAS	1		
	C7338	nsp	CAP, CHIP(1608, 50V/15pF, C0G)_SAMSUNG		CCUS1H150JAS	1		
	C7339	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7340	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7341	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7342	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C7343	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C7344	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7354	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C7355	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C7357	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C7358	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C7360	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C7361	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C7380	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7386	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7387	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7388	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7389	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7390	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7391	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7392	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7393	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7394	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7395	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7396	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7401	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7402	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7403	nsp	CAP, CHIP(1608, 50V/10pF, C0G)_SAMSUNG		CCUS1H100JAS	1		
	C7404	nsp	CAP, CHIP(1608, 50V/10pF, C0G)_SAMSUNG		CCUS1H100JAS	1		
	C7405	nsp	CAP, ELECT(10V/220uF)		CCEA1AH221T	1		
	C7406	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7407	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7408	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7409	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7410	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7412	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7414	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7415	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7416	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7417	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7418	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7419	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7420	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7422	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7423	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7424	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7425	nsp	CAP, CHIP(1005, 50V/100pF, C0G)_SAMSUNG		CCUI1H101JAS	1		
	C7426	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7427	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7428	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7429	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7430	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7431	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7432	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7433	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7434	nsp	CAP, CHIP(1005, 50V/15pF, C0G)_SAMSUNG		CCUI1H150JAS	1		
	C7435	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7436	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7437	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7442	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7443	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7444	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7445	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7446	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7447	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7448	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7449	nsp	CAP, CHIP(1005, 50V/100pF, C0G)_SAMSUNG		CCUI1H101JAS	1		
	C7450	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7451	nsp	CAP, ELECT(KR3,4.7uF/100V,5X11)		CCEA2AH4R7T	1		
	C7452	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7453	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101E	1		
	C7454	943134502350S	CAP, ELECT(50V/470uF)		CCEA1HH471E	1		
	C7455	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7456	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7457	nsp	CAP, CHIP(1005, 25V/0.022uF, X7R)_SAMSUNG		CCUI1E223KCS	1		
	C7458	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7459	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7460	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7461	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7462	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7463	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7464	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7465	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7466	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7467	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C7468	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7469	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7470	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7471	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7473	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7477	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7478	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7479	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7480	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7501	nsp	CAP, ELECT(16V/470uF)		CCEA1CH471T	1		
	C7502	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7503	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7505	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7506	nsp	CAP, ELECT(16V/470uF)		CCEA1CH471T	1		
	C7509	nsp	CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG		CCUC1C106KCS	1		
	C7510	nsp	CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG		CCUC1C106KCS	1		
	C7511	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7512	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7514	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7515	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7516	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7517	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7518	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7523	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7524	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7525	nsp	CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG		CCUC1C106KCS	1		
	C7526	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7527	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7528	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7529	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7530	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7531	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7543	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7544	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7545	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7549	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7550	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7553	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7554	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7555	nsp	CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG		CCUC1C106KCS	1		
	C7556	nsp	CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG		CCUC1C106KCS	1		
	C7557	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7558	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7560	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7561	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7562	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7563	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7566	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7567	nsp	CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG		CCUC1C106KCS	1		
	C7568	nsp	CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG		CCUC1C106KCS	1		
	C7569	nsp	CAP, CHIP(2012, 16V/10uF, X5R)_SAMSUNG		CCUC1C106KCS	1		
	C7570	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7571	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7573	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7574	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7575	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7577	nsp	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C7578	nsp	CAP, ELECT(16V/100uF)		CCEA1CH101T	1		
	C7579	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7580	nsp	CAP, CHIP(1608, 16V/0.22uF, X7R)_SAMSUNG		CCUS1C224KCS	1		
	C7581	nsp	CAP, ELECT(16V/220uF)		CCEA1CH221T	1		
	C7586	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7587	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7588	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7589	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7590	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7591	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7592	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7593	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7594	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7595	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7596	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7597	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7598	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7599	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7600	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7601	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7602	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7603	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7605	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7607	nsp	CAP, ELECT(16V/470uF)		CCEA1CH471T	1		
	C7608	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7609	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7610	nsp	CAP, CHIP(1005, 50V/100pF, C0G)_SAMSUNG		CCUI1H101JAS	1		
	C7611	nsp	CAP, CHIP(1005, 50V/100pF, C0G)_SAMSUNG		CCUI1H101JAS	1		
	C7612	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7613	nsp	CAP, CHIP(1005, 50V/100pF, C0G)_SAMSUNG		CCUI1H101JAS	1		
	C7614	nsp	CAP, CHIP(1005, 50V/100pF, C0G)_SAMSUNG		CCUI1H101JAS	1		
	C7615	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7617	nsp	CAP, CHIP(1608, 50V/2700pF, X7R)_SAMSUNG		CCUS1H272KCS	1		
	C7618	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7619	nsp	CAP, CHIP(1608, 50V/220pF, C0G)_SAMSUNG		CCUS1H221JAS	1		
	C7620	nsp	CAP, CHIP(1608, 50V/220pF, C0G)_SAMSUNG		CCUS1H221JAS	1		
	C7621	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7622	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7623	nsp	CAP, CHIP(1608, 50V/220pF, C0G)_SAMSUNG		CCUS1H221JAS	1		
	C7624	nsp	CAP, CHIP(1608, 50V/220pF, C0G)_SAMSUNG		CCUS1H221JAS	1		
	C7627	nsp	CAP, ELECT(50V/22uF)		CCEA1HH220T	1		
	C7629	nsp	CAP, ELECT(50V/22uF)		CCEA1HH220T	1		
	C7630	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101E	1		
	C7631	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101E	1		
	C7638	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7639	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7641	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7642	nsp	CAP, ELECT(50V/22uF)		CCEA1HH220T	1		
	C7643	nsp	CAP, ELECT(50V/22uF)		CCEA1HH220T	1		
	C7644	nsp	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C7645	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7646	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7647	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7648	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7649	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7650	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7651	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7652	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7653	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7654	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7655	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7656	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C7657	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7658	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7659	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7660	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7661	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7662	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7663	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C7664	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C7665	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7668	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7669	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7670	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7671	nsp	CAP, CHIP(1608, 50V/4700pF, X7R)_SAMSUNG		CCUS1H472KCS	1		
	C7672	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7673	nsp	CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG		CCUS1H102KCS	1		
	C7674	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7675	nsp	CAP, CHIP(1608, 50V/4700pF, X7R)_SAMSUNG		CCUS1H472KCS	1		
	C7676	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7678	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7679	nsp	CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG		CCUS1H102KCS	1		
	C7680	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C7681	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C7682	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7685	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7686	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7687	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7688	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7689	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7690	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7691	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7692	nsp	CAP, CHIP(1608, 50V/1500pF , X7R)_SAMSUNG		CCUS1H152KCS	1		
	C7693	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7694	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7695	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C7696	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C7697	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C7698	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7703	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7704	nsp	CAP, CHIP(1608, 50V/220pF, C0G)_SAMSUNG		CCUS1H221JAS	1		
	C7705	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7706	nsp	CAP, CHIP(1608, 50V/2700pF, X7R)_SAMSUNG		CCUS1H272KCS	1		
	C7707	nsp	CAP, ELECT(16V/100uF)		CCEA1CH101T	1		
	C7709	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7710	nsp	CAP, CHIP(1608, 50V/220pF, C0G)_SAMSUNG		CCUS1H221JAS	1		
	C7712	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7720	nsp	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		
	C7721	nsp	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		
	C7727	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7732	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7733	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7734	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7735	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7736	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7737	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7738	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7739	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7740	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7741	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7742	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	C7743	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7784	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	C7785	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7786	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7787	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7793	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7816	nsp	CAP, CHIP(1005, 50V/100pF, C0G)_SAMSUNG	E3	CCUI1H101JAS	1		
	C7816	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG	E2,E1C	CCUI1C104KCS	1		
	OTHER PARTS GROUP							
	CN711	nsp	WAFER,FFC 1.25mm,STRAIGHT		CJP27GA285ZN	1		
	CN712	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/9PIN		CJP09GI288ZY	1		
	CN713	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/15PIN		CJP15GI288ZY	1		
	CN741	nsp	WAFER, FFC(9P-1mm, STRAIGHT)		CJP09GA117ZY	1		
	CN751	nsp	WAFER/STRAIGHT/2.5mm/6P		CJP06GA01ZY	1		
	CN752	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/7PIN		CJP07GI288ZY	1		
	CN771	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/5PIN		CJP05GI288ZY	1		
	CN772	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/13PIN		CJP13GI288ZY	1		
	JK721	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK722	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK723	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK724	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK725	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK726	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK771	943643101570S	JACK, 4P(W/R,W/R),SEPA-GND		CJJ4P048U	1		
	JK772	943643102940S	JACK, RCA 2P (B/B) SILVER VERTICAL		CJJ4N110Z	1		
	JK784	943643100170S	JACK, 1P(ORG), SILVER	E3	CJJ4M043Y	1		
	L7102	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7103	nsp	CHIP BEAD(600R, 1808, 0.5A)		HLZ9Z008Z	1		
	L7104	nsp	CHIP BEAD(600R, 1808, 0.5A)		HLZ9Z008Z	1		
	L7105	nsp	CHIP BEAD(600R, 1808, 0.5A)		HLZ9Z008Z	1		
	L7106	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7107	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7108	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7109	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7110	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7111	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7112	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7113	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7114	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7115	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7116	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7117	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7119	nsp	CHIP BEAD(600R, 1808, 0.5A)		HLZ9Z008Z	1		
	L7122	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7123	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7124	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7126	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7127	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7201	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7202	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7203	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7204	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7205	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7206	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7209	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7210	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7301	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7302	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7304	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7305	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	L7306	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7308	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7309	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7310	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7401	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7402	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7404	nsp	CHIP BEAD(600R, 1808, 0.5A)		HLZ9Z008Z	1		
	L7429	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7484	nsp	COIL , SMD 5040, 3.6uH		CLQ28E3R6NRH	1		
	L7501	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7502	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7503	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7504	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7506	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7508	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7509	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7511	nsp	COIL , SMD(2.2uH, 4.6A 5040, 50X40)		CLQ28E2R2NRH	1		
	L7513	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7514	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7516	nsp	COIL , SMD 5040, 3.6uH		CLQ28E3R6NRH	1		
	L7517	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7521	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7527	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7601	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	TU771	nsp	PIN SOCKET (09P,1.25mm,ANGLE,B-TO-B)		CJP09HJ282Z	1		
	X711	943141100890S	X-TAL, HC-49/S SMD , 8.0000MHz, 16PF		COX08000E160ST	1		
	X721	943141100600S	X-TAL, SMD 3.2X2.5, 28.636MHz, 12PF		COX28636I120ST	1		
	X731	943141100720S	X-TAL, SMD 3.2X2.5, 27.000MHz, 10PF		COX27000I100ST	1		
	X741	943141100900S	X-TAL, HC-49/S SMD , 24.576MHz, 12PF		COX24576E120ST	1		

EXPLODED

※Parts indicated by "nsp"on this table cannot be supplied. Part indicated by "@" mark is not illustrated in the exploded view.

※The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

NOTE:The symbols in the column Remarks indicate the following destinations.

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	PCB GROUP							
	P1	nsp	FRONT PCB ASS'Y	E3	VOP12909H	1	*	
	P1	nsp	FRONT PCB ASS'Y	E2,E1C	VOP12909I	1	*	
	P1-P2	-	STANDBY PCB ASS'Y		-	1	*	
	P1-P3	-	PHONE PCB ASS'Y		-	1	*	
	P4	9U6391027500S	USB&BT PCB ASS'Y		VOP12743D	1	*	
	P5	943189101720S	MODULE, BLUETOOTH		CNVMB8811C0BR1	1	*	
	P6	nsp	MAIN PCB ASS'Y	E3	VOP12741F	1	*	
	P6	nsp	MAIN PCB ASS'Y	E2	VOP12741G	1	*	
	P6	nsp	MAIN PCB ASS'Y	E1C	VOP12741H	1	*	
	P6-P7	-	PHONE WIRE GUIDE		-	1	*	
	P6-P9	-	TUNER PCB ASS'Y		-	1	*	
	P6-P10	-	VIDEO PCB ASS'Y		-	1	*	
	P6-P13	-	FRONT CABLE GUIDE		-	1	*	
	P6-P14	-	USB WIRE GUIDE		-	1	*	
	P8	943639103030S	DIGITAL PCB ASS'Y See PROCEDURE AFTER REPLACING THE PCB.	E3	VOP12913B	1	*	
	P8	943639103040S	DIGITAL PCB ASS'Y See PROCEDURE AFTER REPLACING THE PCB.	E2,E1C	VOP12913C	1	*	
	P11	nsp	SMPS PCB ASS'Y	E3	VOP12910H	1	*	
	P11	nsp	SMPS PCB ASS'Y	E2,E1C	VOP12910I	1	*	
	P11-P12	-	REGULATOR PCB ASS'Y		-	1	*	
	OTHER PARTS GROUP							
!	P15	943101102380D	TRANS , POWER AVR-S500BT/E3	E3	VLT5U056ZU	1		
!	P15	943101102390D	TRANS , POWER AVR-X510BT/E1	E2	VLT5U056ZE	1		
!	P15	943101102400D	TRANS , POWER AVR-X510BT/E1C	E1C	VLT5U056ZH	1		
!	P16	943641500540S	AC INLET WIRE ASS'Y (2P,110MM)	E2	CWZPM5003TW91AH	1		
	F1	943412100710D	KNOB , VOLUME		CBN1A263	1		
	F2	943446100590D	PLATE , VOLUME KNOB		CGX1A469	1		
	F3	943412101070D	KNOB,SELECT		CBN1A274	1		
	F4	943446100760D	PLATE,SELECT KNOB		CGX1A481	1		
	F5	943402106410S	FRONT/SUB PANEL ASS'Y	E3	VGW1A553EA	1	*	
	F5	943402106420S	FRONT/SUB PANEL ASS'Y	E2,E1C	VGW1A553DA	1	*	
	F6	943416101490D	WINDOW , FL	E3	VGU1A462M	1		
	F6	943416101320D	WINDOW	E2,E1C	VGU1A462N	1		
	F7	42141002400AD	BADGE , DENON		CGB1A254Z-V1	1		
	F8	943411101750D	BUTTON , POWER		CBT1A1167	1		
	F9	943423100510D	INDICATOR , POWER		CGL1A299A36	1		
	F10	943411103220D	BUTTON , SOURCE	E3	VBT1A1195	1		
	F11	943411103210D	BUTTON , NETWORK	E3	VBT1A1194	1		
	F12	943411101770D	BUTTON , 10KEY		VBT2A1164	1		
	F13	nsp	HOLDER , BT		VMH1A356	1		
	F14	nsp	PLATE , EARTH USB		VMC1A430	1		
	F15	nsp	SPRING , KNOB		CUS1A169	2	*	
	M1	nsp	CHASSIS , BOTTOM		VUA4A335	1		
	M2	nsp	RUBBER		VHG1A113	1		
	M3	nsp	LABEL , BOTTOM		VQB1A1243	1		
	M4	943407100020D	FOOT		CKL1A190	4		
	M5	00D9630214607	CUSHION FOOT		VHG2A289	4		
	M6	nsp	HEAT SINK , MAIN		VMY1A409	1		
	M7	nsp	HOLDER , PCB		CHE170	2		
	M8	nsp	BRACKET , SMPS		VMD1A790	1		
	M9	nsp	BRACKET , PCB		VMD1A774	2		
	M10	nsp	PANEL , REAR	E3	VKF4A481Z	1	*	
	M10	nsp	PANEL , REAR	E2	VKF5A481Y	1	*	
	M10	nsp	PANEL , REAR	E1C	VKF6A481X	1	*	
	M11	nsp	BUSHING , AC CORD	E3,E1C	CHR1A028	1		
	M12	943403100570D	CABINET , TOP		VKC2A215K117	1		
	M13	nsp	CUSHION SUPPORT		VHG1A305	2		
	@	943606502450D	CARD CABLE(1.0mm, 10P, 60mm)		CWC4F4A10A060A08	1		
	@	943606502440D	CARD CABLE(1.25mm,27p,200mm)		CWC5C4A27B200B10001	1		
	@	943606502460D	CARD CABLE(1mm, 09p, 80mm)		CWC4F4A09A080B10	1		
	@	nsp	TAPE, HEMELON		VHS1A032	1		
	SCREW GROUP							
	S1	nsp	SCREW		VTB3+6JR	13		
	S2	nsp	SCREW		VTW3+6JR	2		
	S3	nsp	SCREW		VTBD3+6FFZR	13		
	S4	nsp	SCREW		VTB3+8JR	24		
	S5	nsp	SCREW		VTB3+8JFZR	5		
	S6	nsp	SCREW		VTBD3+8JFZR	19		
	S7	nsp	SCREW		VTW3+8JR	13		
	S8	nsp	SCREW		VTW3+12JR	2		
	S9	nsp	SCREW		CTBD4+8JFZR	6		
	S10	nsp	SCREW , TRANS		VHDR1A023R	4		
	S11	nsp	SCREW , SPECIAL		VHD4A012R	3		
	S12	nsp	SCREW , SPECIAL		VHD1A012ZR	15		
	S13	nsp	SCREW		VTWS3+10GR	1		
	S14	nsp	SCREW		VTB3+6FR	4		

PACKING

※Parts indicated by "nsp"on this table cannot be supplied. Part indicated by "@" mark is not illustrated in the exploded view.

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NOTE:The symbols in the column Remarks indicate the following destinations.

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	1	nsp	BAG , POLY SET		VPP1A081W	1		
!	2	9436115011905	CORD , POWER (10A/125V,USA)	E3	VJA2A159ZV01	1		
!	2	943611501150S	CORD , POWER (10A/250V,EUR,INLET)	E2	VJA2B054ZV02 VJA2B054ZV01	1		
!	2	90M-YC000850R	POWER CORD (CHINA CONNECTOR TYPE)	E1C	CJA2N047WA	1		
	3	943533103000D	PAD , SNOW L		VPS1A916	1		
	4	943533103010D	PAD , SNOW R		VPS1A917	1		
	5	nsp	INSTRUCTION MANUAL ASS'Y					
	5-1	nsp	BAG , POLY(ENGLISH/FRANCH)		VPB1061W	1		
	5-2	nsp	CARD , WARRANTY	E3	VQE1A224N	1		
	5-3	nsp	SHEET , SAFETY	E3	VQE1A901Z	1	*	
	5-3	nsp	SHEET , SAFETY	E2	VQE1A902Z	1	*	
	5-3	nsp	SHEET , SAFETY	E1C	VQE1A903Z	1	*	
	5-4	nsp	SHEET , NOTE ON RADIO		VQE1A900Z	1	*	
	5-5	nsp	SHEET , USING BATTERIES	E2	VQE1A867Z	1		
	5-6	54111147200AD	QUICK START GUIDE (E3)	E3	VQX1A2017Z	1	*	
	5-6	54111147300AD	QUICK START GUIDE (E2)	E2	VQX1A2018Z	1	*	
	5-6	54111147400AD	QUICK START GUIDE (E1C)	E1C	VQX1A2019Z	1	*	
	5-7	nsp	CARD FOR CHINA INDENTIFICATION	E1C	VQE1A450Z	1		
	5-8	943116100170D	FM 1 POLE ANT (UL TYPE)		CSA1A044Z	1		
	5-9	963116100070S	ANT, AM LOOP(9.5uH/5T)		CSA1A039Y	1		
	5-10	nsp	China Tuner Isolator, SGLBF-6B	E1C	CLR9Z001Z	1		
	6	30701024400AD	REMOCON ASS'Y (RC-1216))		CARTAVRS530BT	1	*	
	7	943324008700D	MICROPHONE ASS'Y		CJXAVRS500BTMICRO	1		
	8	nsp	BATTERY , AAA 2PCS IN PACK		CABR03PPB-GN	2		
	9	943531106210S	BOX , OUT CARTON	E3	VPG2A962Z	1	*	
	9	943531106220S	BOX , OUT CARTON	E2	VPG2A962Y	1	*	
	9	943531106230S	BOX , OUT CARTON	E1C	VPG2A962X	1	*	
	10	nsp	WARRANTY CARD,CHINA	E1C	VQE1A473V	1		
	11	nsp	LABEL , CONTROL		VQB1A993Z	1		
	12	nsp	LABEL , RETURN	E3	CQB1A1551Z	1	*	