

CD Player

CD6006



Click here!

On-line service parts list

We are getting ready.

On-line owner's manual

<http://manuals.marantz.com/CD6006/NA/EN/index.php>

<http://manuals.marantz.com/CD6006/EU/EN/index.php>

<http://manuals.marantz.com/CD6006/JP/JA/index.php>

CAUTION IN SERVICING

ELECTRICAL

MECHANICAL

REPAIR INFORMATION

UPDATING

- 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.

CAUTION IN SERVICING

SAFETY PRECAUTIONS

NOTE FOR SCHEMATIC DIAGRAM

NOTE FOR PARTS LIST

INSTRUCTIONS FOR HANDLING SEMICONDUCTORS AND OPTICAL UNIT

WARNING AND LASER SAFETY INSTRUCTIONS

CAUTION IN SERVICING.

Initializing This Unit
JIG FOR 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.

Ⓢ 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

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 $\triangle$ 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 reasons, 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.

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 $\triangle$ mark. |
| (2) Parts lists | Indicated by the $\triangle$ 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 $\triangle$ 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 $\triangle$ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

INSTRUCTIONS FOR HANDLING SEMICONDUCTORS AND OPTICAL UNIT

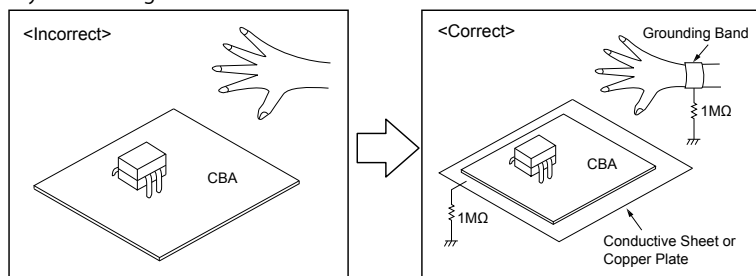
Electrostatic breakdown of the semi-conductors or optical pickup may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band (1 M Ω) 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 Ω) 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



WARNING AND LASER SAFETY INSTRUCTIONS

(GB) WARNING

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

ESD



(NL) WAARSCHUWING

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

(F) ATTENTION

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

(D) WARNUNG

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

(I) AVVERTIMENTO

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

(GB)

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

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden. Für Reparaturen sind Original-Ersatzteile zu verwenden.

(NL)

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

(I)

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

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

(F)

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

LASER SAFETY

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



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

AVOID DIRECT EXPOSURE TO BEAM

WARNING

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

WARNING LOCATION: INSIDE ON LASER COVERSHELD

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

CAUTION IN SERVICING.

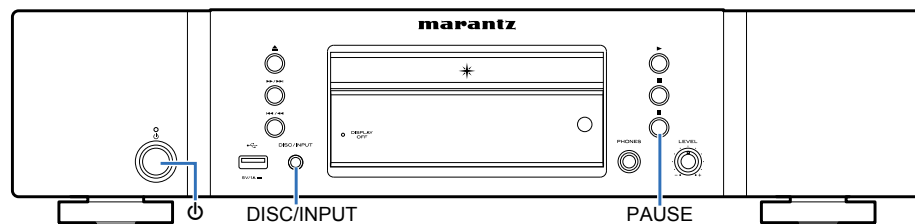
Initializing This Unit

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

1. Press the power button to turn off the power.
2. While holding down buttons "**PAUSE**" and "**DISC/INPUT**" simultaneously, press the power button to turn on the power.
3. "**INITIALIZING**" is displayed.

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.



JIG FOR SERVICING

The jig (RS-232C > product internal connector conversion board + 7P Cable Kit) used for firmware updates is as shown below.

Order with your dealer for the jigs your dealer if necessary.

8U-210100S : WRITING KIT : 1 Set
606050028012P : 7P FFC (straight) : 1 Set
(See [FIRMWARE UPDATE PROCEDURE](#))

SCHEMATIC DIAGRAMS

SCH01 MAIN CD DSP USB

SCH02 MAIN CPU

SCH03 AUDIO OUTPUT POWER

SCH04 FRONT PHONE

PRINTED CIRCUIT BOARDS

MAIN, MAIN TRANS, HP, FRONT

POWER, AUDIO, STBY LED, FLASHER

BLOCK DIAGRAM

POWER DIAGRAM

WIRING DIAGRAM

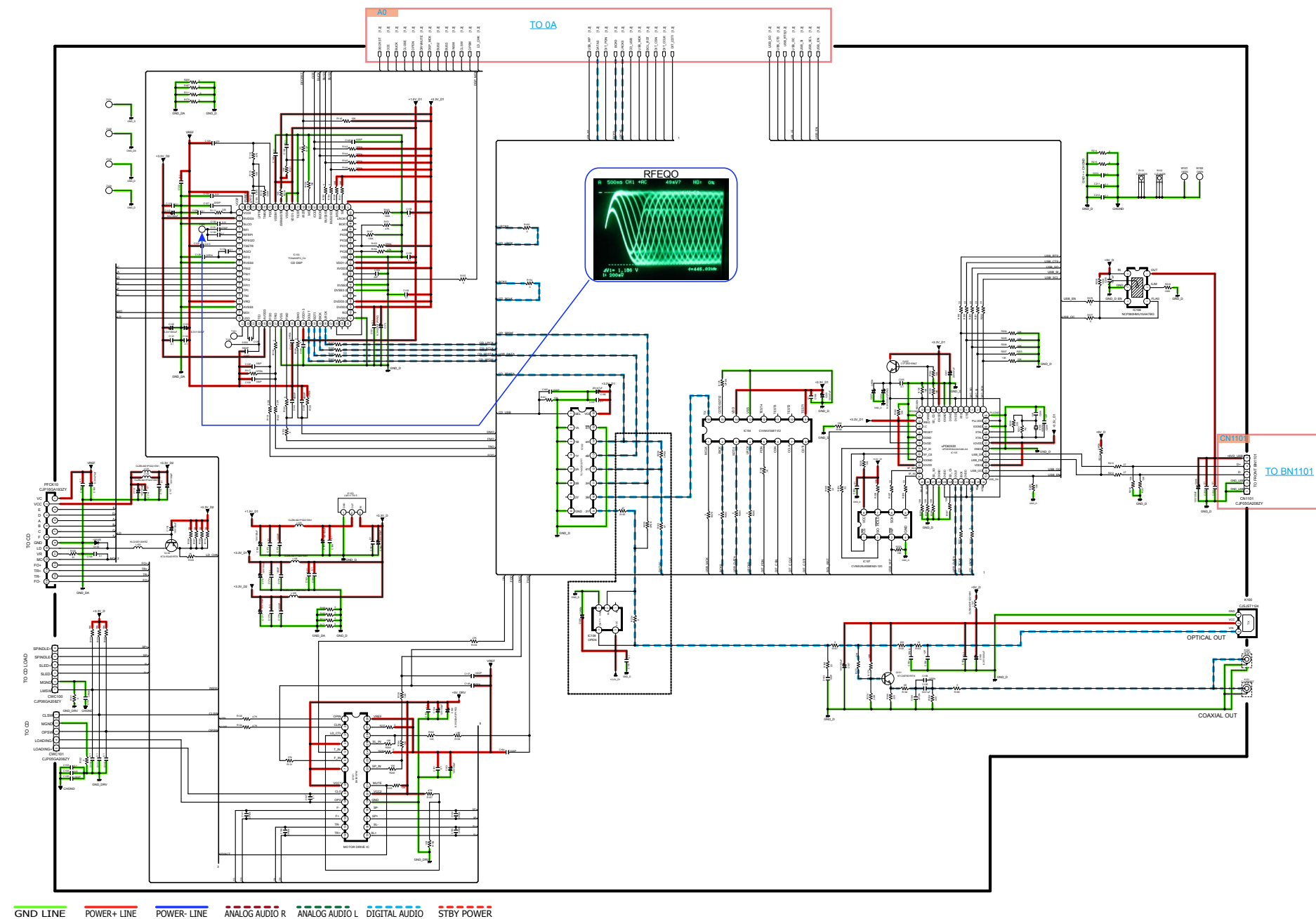
SEMICONDUCTORS

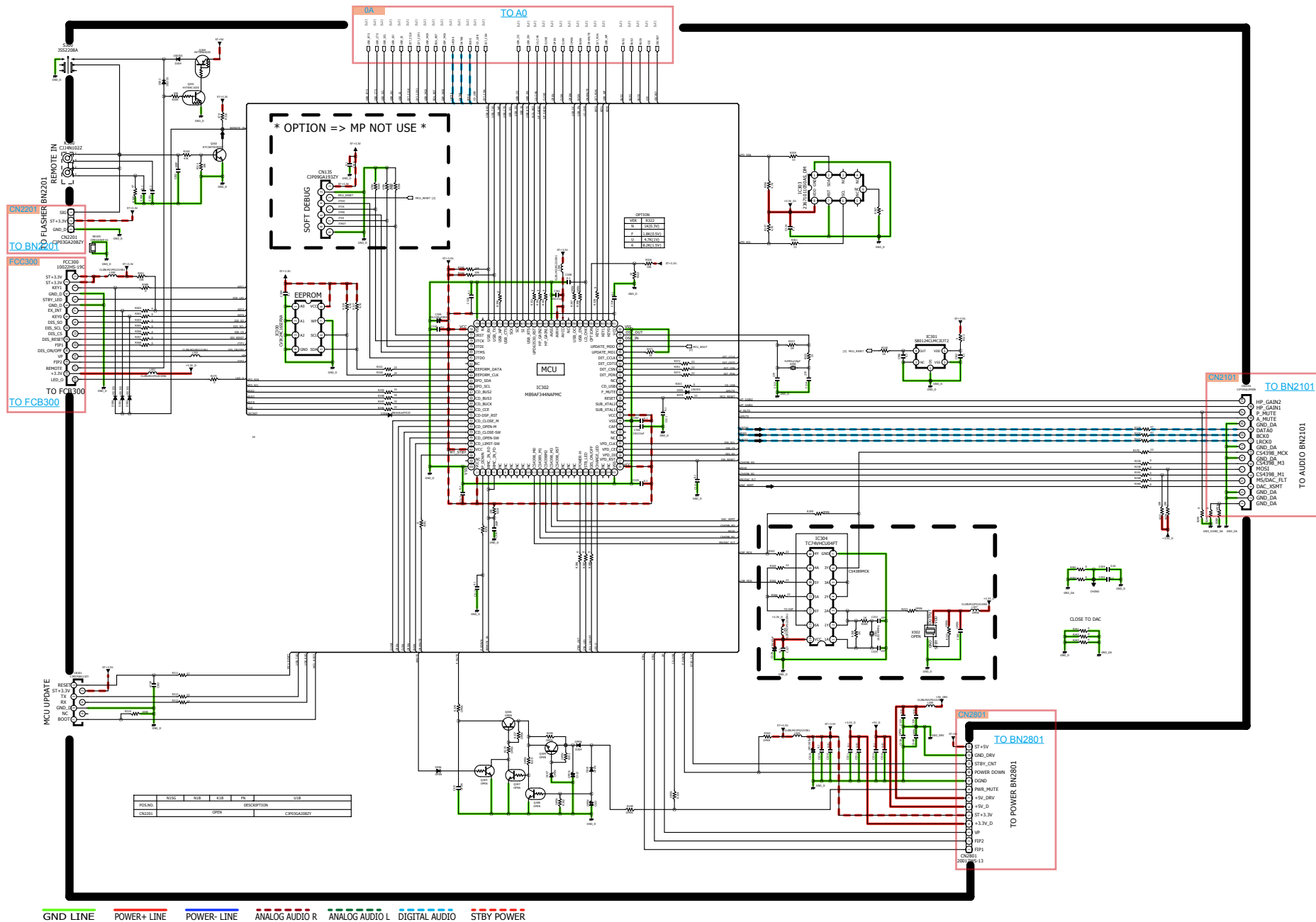
1. IC's

2. FL DISPLAY

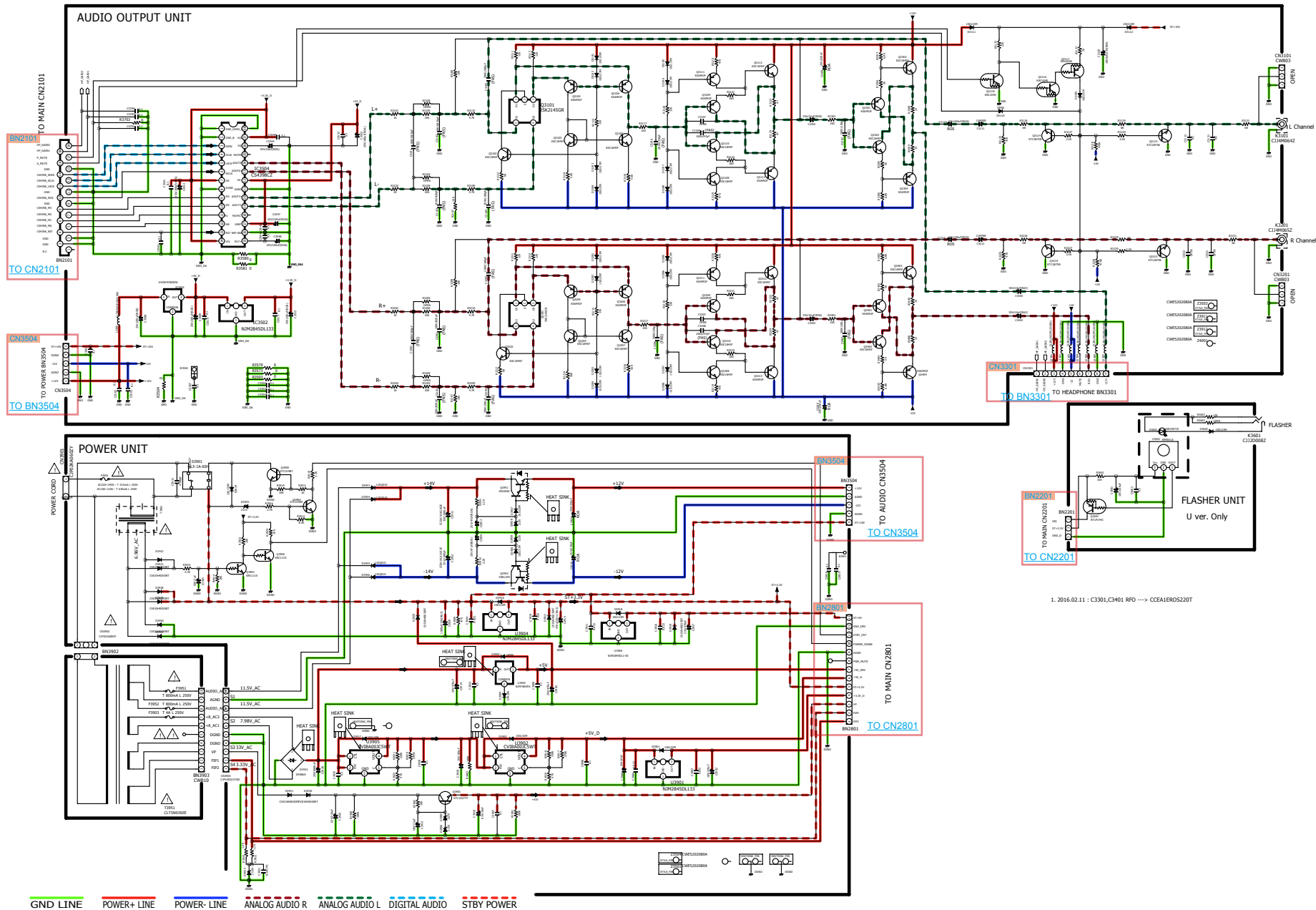
SCHEMATIC DIAGRAMS

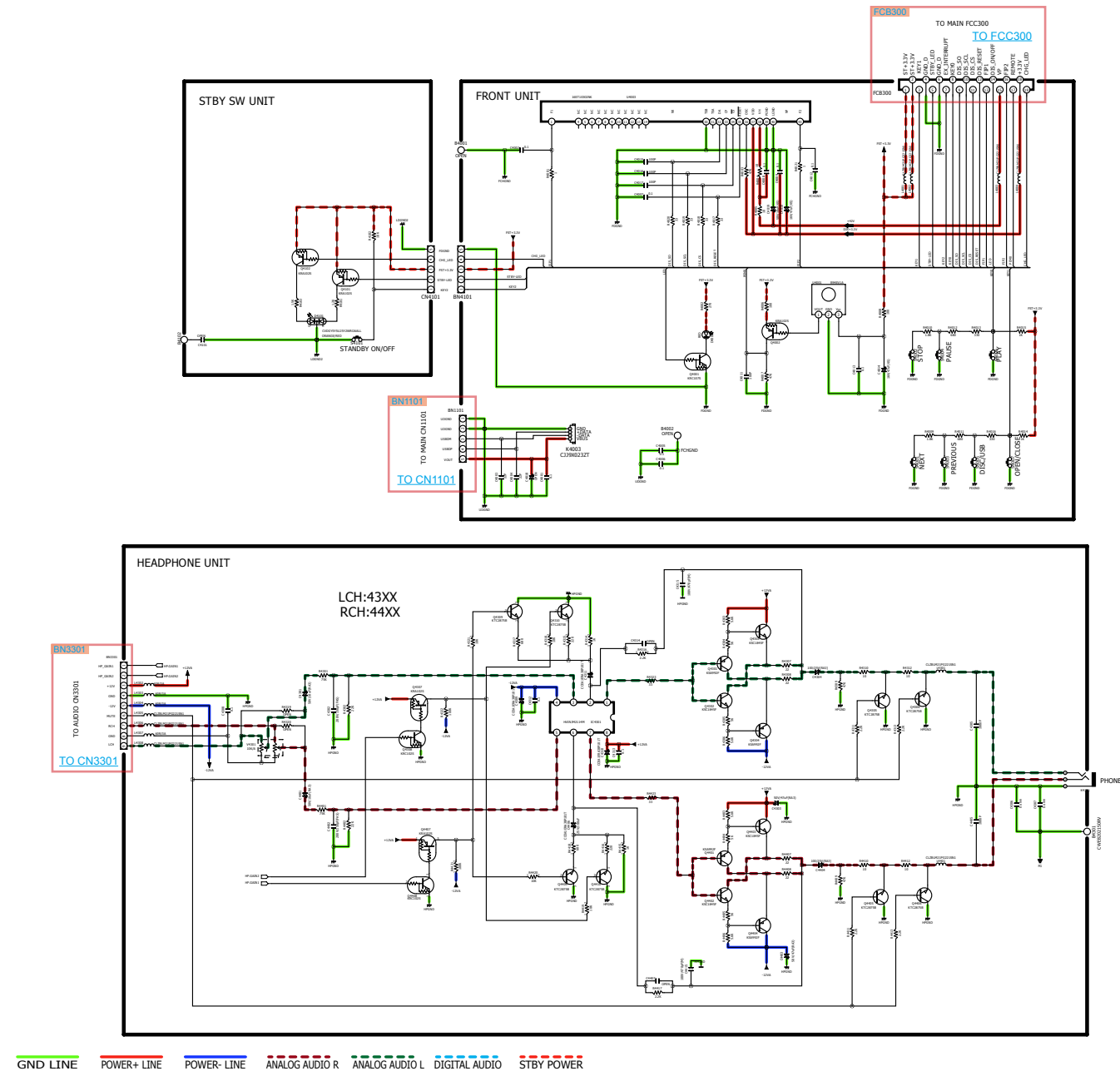
SCH01_MAIN_CD_DSP_USB





SCH03_AUDIO OUTPUT_POWER





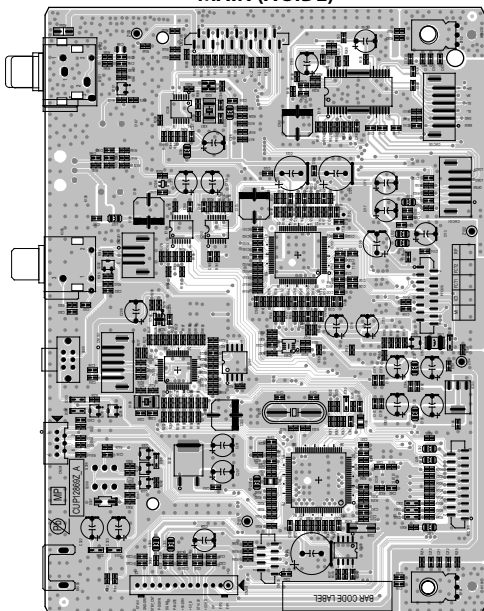
PRINTED CIRCUIT BOARDS

MAIN, MAIN TRANS, HP, FRONT

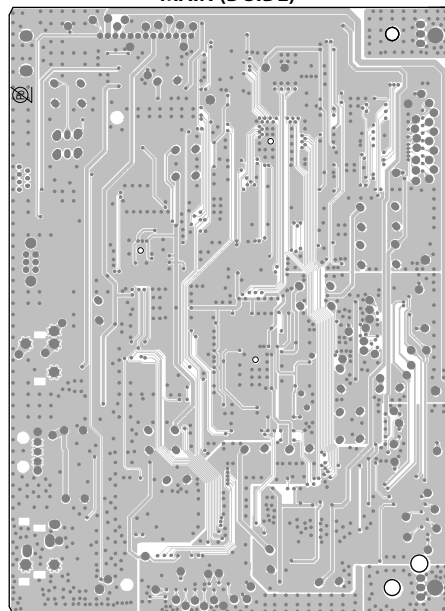
Lead-free Solder

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

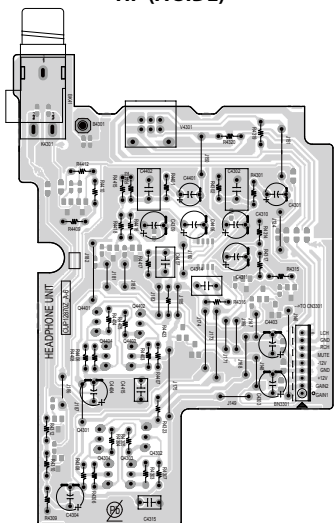
MAIN (A SIDE)



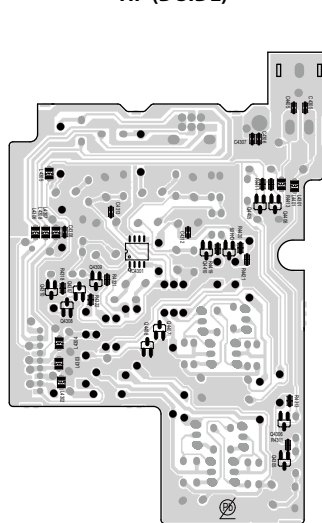
MAIN (B SIDE)



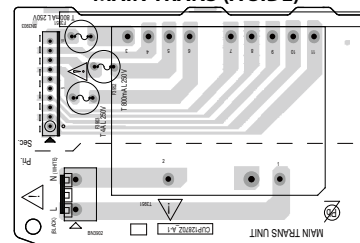
HP (A SIDE)



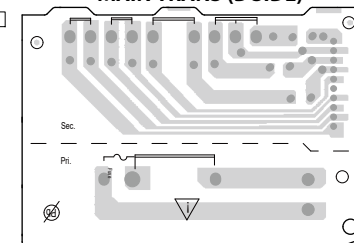
HP (B SIDE)



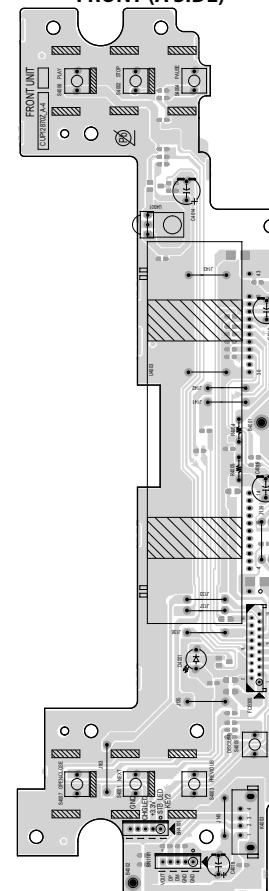
MAIN TRANS (A SIDE)



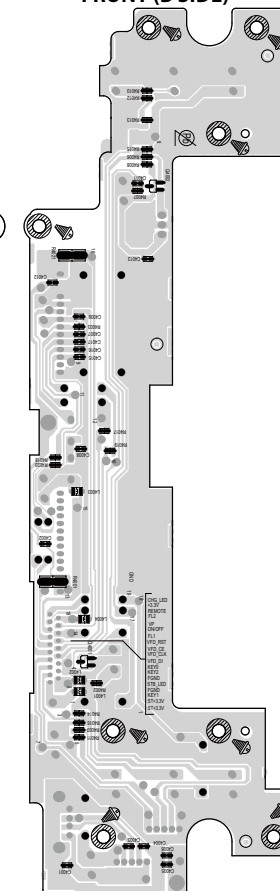
MAIN TRANS (B SIDE)



FRONT (A SIDE)



FRONT (B SIDE)



Caution in
servicing

Electrical

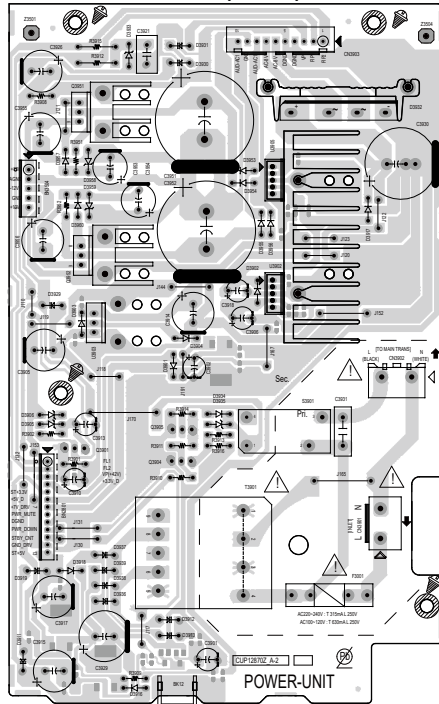
Mechanical

Repair Information

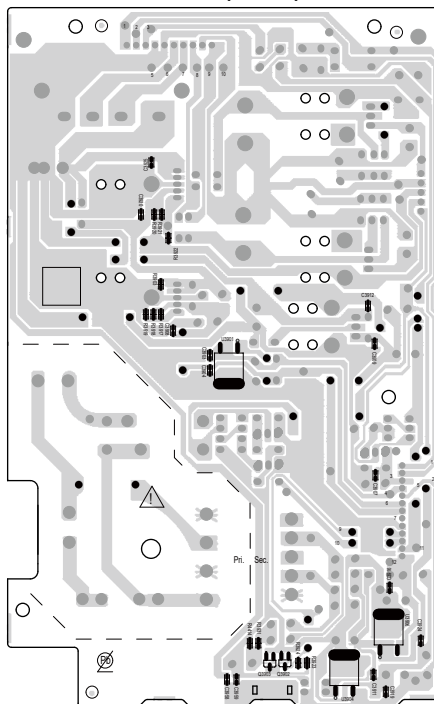
Updating

POWER, AUDIO, STBY LED, FLASHER

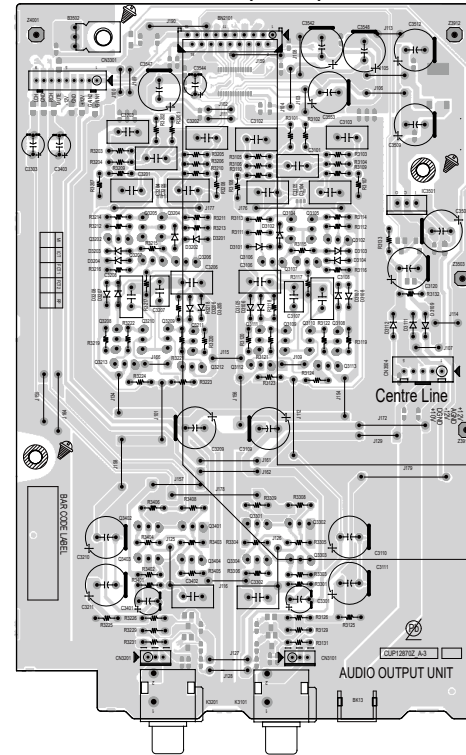
POWER (A SIDE)



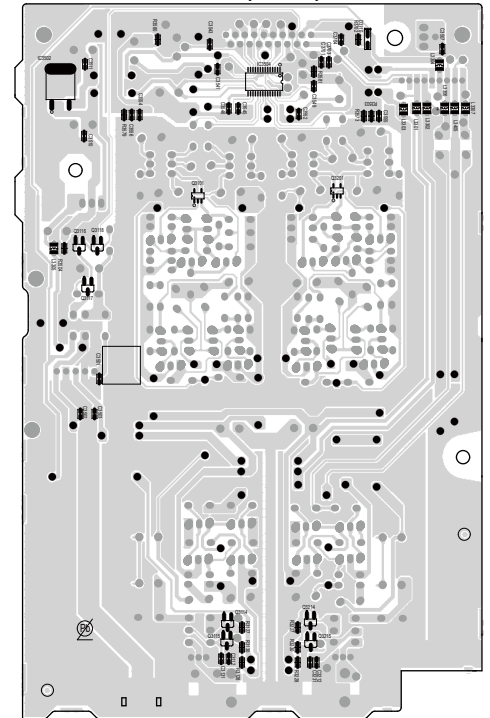
POWER (B SIDE)



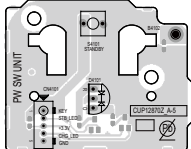
AUDIO (A SIDE)



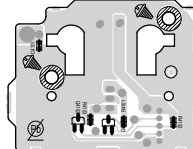
AUDIO (B SIDE)



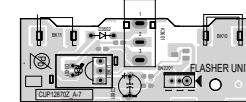
STBY LED (A SIDE)



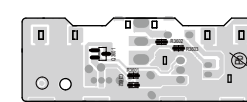
STBY LED (B SIDE)



FLASHER (B SIDE)



FLASHER (B SIDE)



Caution in
servicing

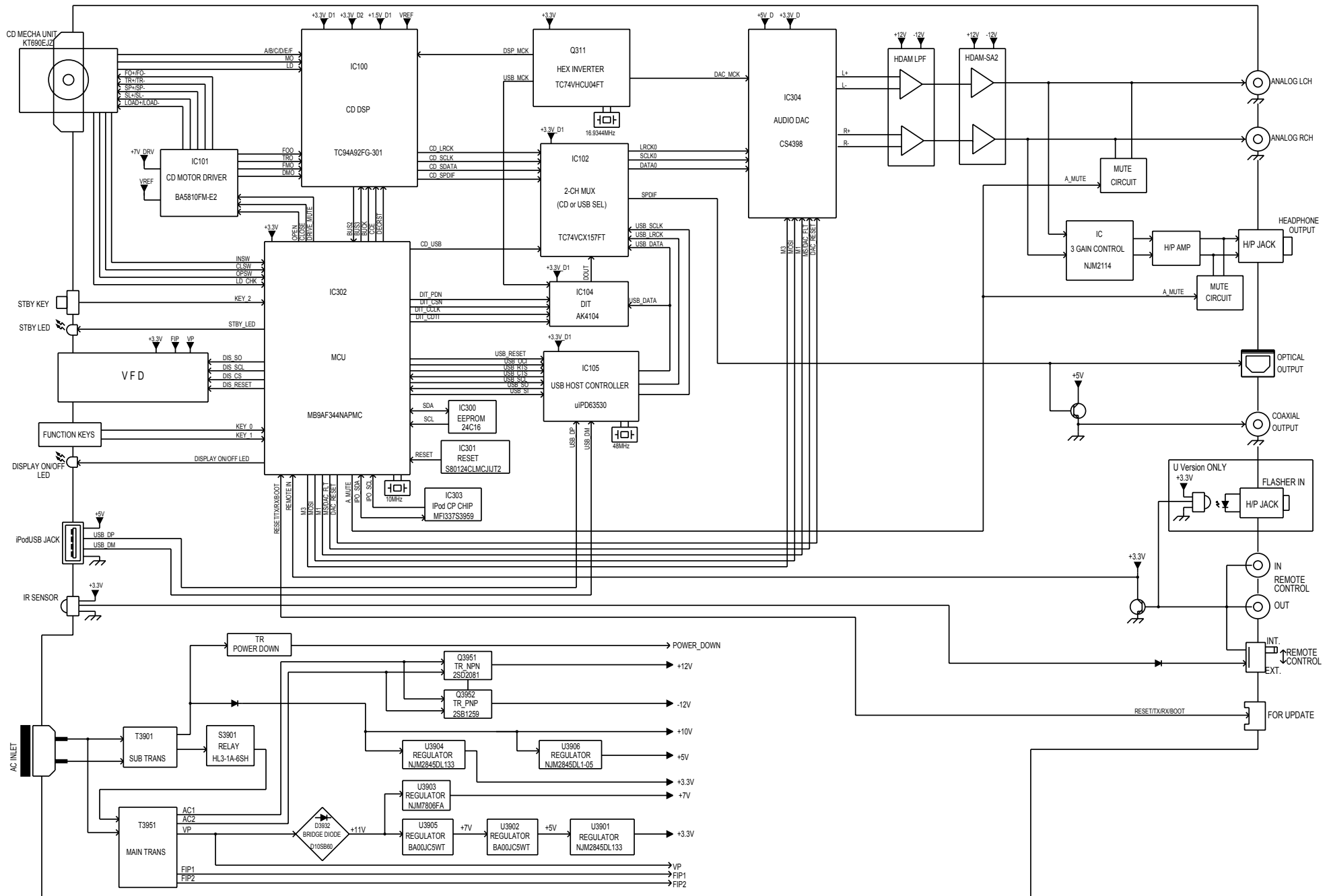
Electrical

Mechanical

Repair Information

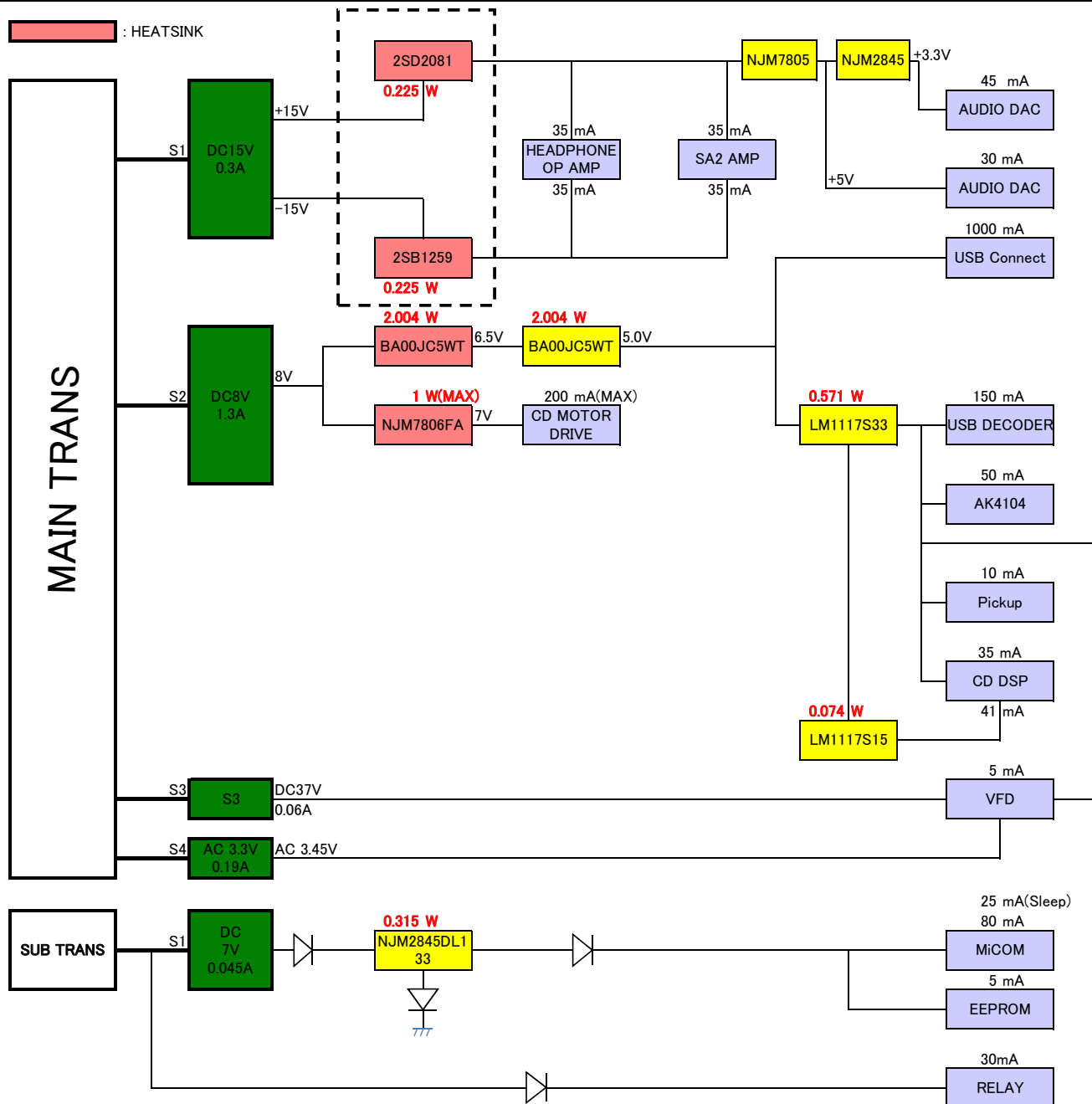
Updating

CD6006 BLOCK DIAGRAM

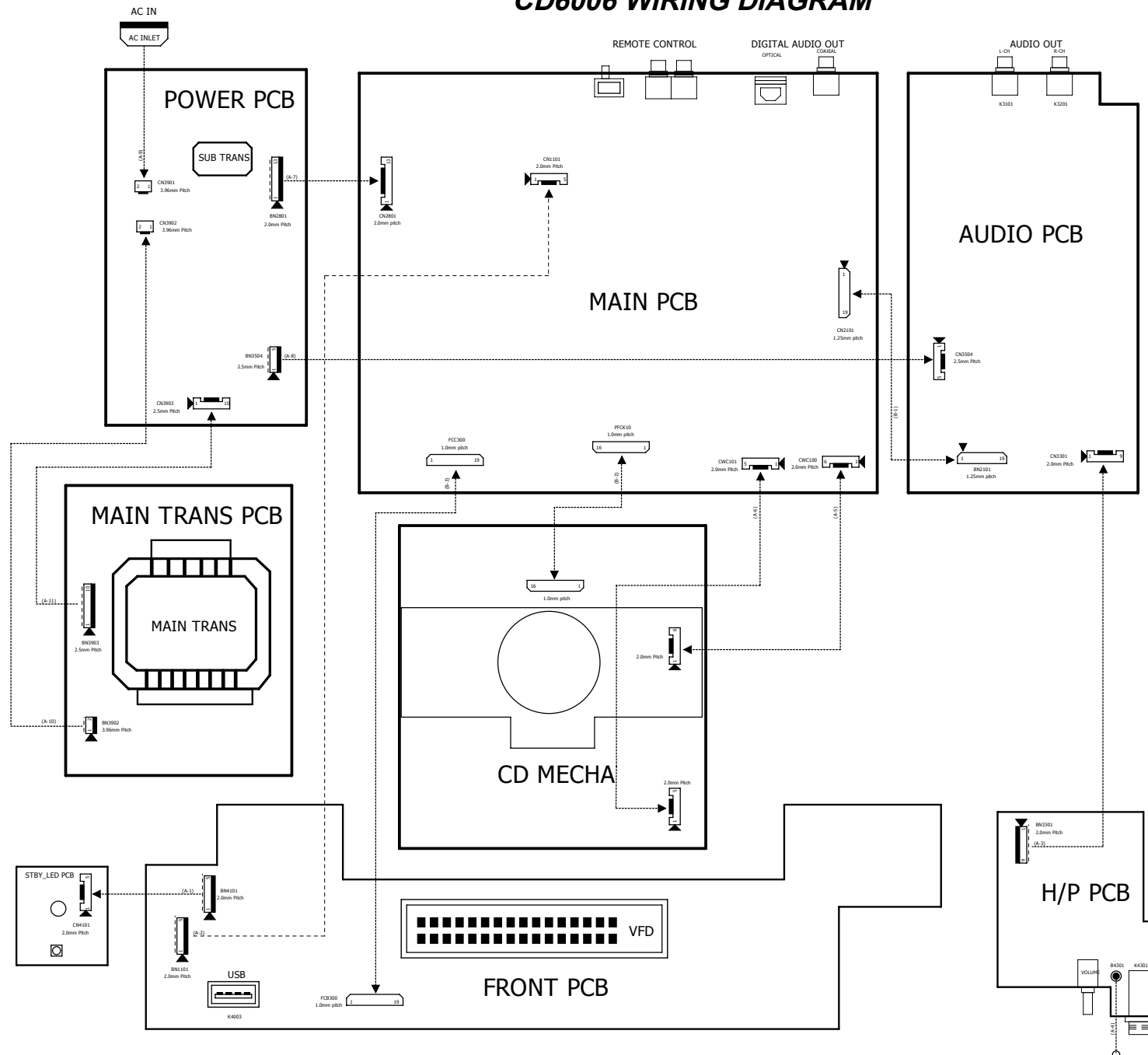


POWER DIAGRAM

CD6006 CURRENT BLOCK DIAGRAM



CD6006 WIRING DIAGRAM



* (A) WIRE ASS'Y

NO	PCB	REF.	PART NUMBER	COMMENT
1	FRONT	BM1409	CWZCD6004B4101	2.0mm, 5P
2	FRONT	BN1302	CWZCD6004B1101	2.0mm, 5P
3	H/P	BN3101	CWB1C0091207E001	2.0mm, 5P
4	H/P	B4301	CWE8202150R01	1P
5	MAIN-CD	CW100	CWB5A906220G	2.0mm, 6P
6	MAIN-CD	CW101	CWB8005520G	2.0mm, 5P
7	POWER	BN2801	CWZCD6004B2801	2.0mm, 13P
8	POWER	BN3504	CWZCD6004B3504	2.5mm, 5P
9	POWER	CN3901	CIJ20A060Y2	3.65mm, 2P
10	MAIN TRANS	BN3902	CWB4D932200U2	3.65mm, 2P
11	MAIN TRANS	BN3903	CWZCD6004B3903	2.5mm, 10P
12				

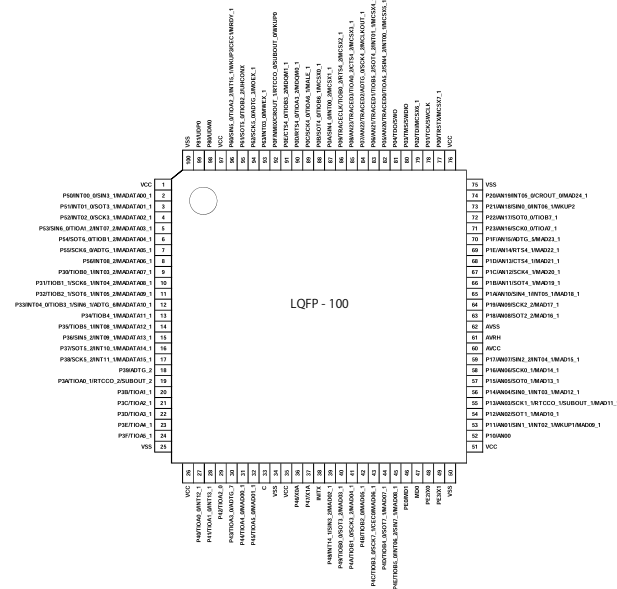
*(B) CARD CABLE

NO	PCB	REF.	PART NUMBER	COMMENT
1	MAIN-AUDIO	BN2101	CWC4C4A19B250B08001	1.25mm, 19P
2	MAIN-CD	PFCK10	CWC4F1A16A140A10	1.0mm, 16P
3	MAIN-FRON	FCC300	CWC4F4A19A250B08	1.0mm, 19P

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

MB9AF344NAPMC (IC302)



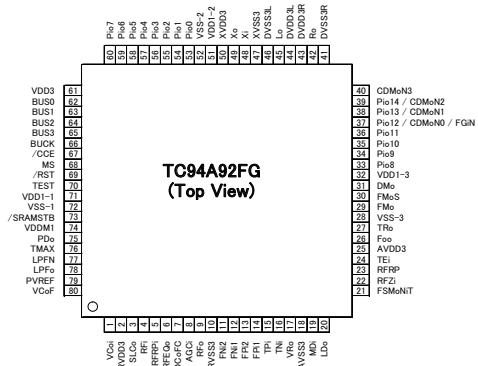
MAIN MCU PORT MAP

Pin	Symbol	Pin Name	I/O	Pu/Pd	STBY	Description
1	VCC	VCC				VCC
2	P50/INT00_0/SIN3_1	POWER_DOWN	I	Pu	L	Ac Cord Disconnect Check Pin (Active : Low)
3	P51/INT01_0/SOT3_1	RC5_IN_Rising	I	Pu	L/H	Remote Rising Detect
4	P52/INT02_0/SCK3_1	RC5_IN_Falling	I	Pu	L/H	Remote Falling Detect
5	P53/INT07_2/SIN6_0/TIOA1_2/MADA-TA03_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
6	P54/SOT6_0/TIOB1_2/MADATA04_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
7	P55/SCK6_0/ADTG_1/MADATA05_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
8	P56/INT08_2/MADATA06_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
9	P30/INT03_2/TIOB0_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
10	P31/INT04_2/TIOB1_1/SCK6_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
11	P32/INT05_2/TIOB2_1/SOT6_1	DAC_I2C(M0)	O	Pd	L	CS4398 AD0
12	P33/INT04_0/TIOB3_1/SIN6_1/ADTG_6	DAC_I2C(M1)	I/O	Pu	L	CS4398 SDA
13	P34/TIOB4_1/MADATA11_1	DAC_I2C(M2)	O	Pu	L	CS4398 SCL
14	P35/INT08_1/TIOB5_1/MADATA12_1	DAC_I2C(M3)	O		L	CS4398 AD1
15	P36/INT09_1/SIN5_2/MADATA13_1	DAC_I2C(RST)	O	Pd	L	CS4398 Reset
16	P37/INT10_1/SOT5_2/MADATA14_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
17	P38/INT11_1/SCK5_2/MADATA15_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
18	P39/ADTG_2	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
19	P3A/TIOA0_1/RTCCO_2/SUBOUT_2	POWER_ON	O		L	TURN POWER ON ,OUTPUT LOW LEVEL
20	P3B/TIOA1_1	ST_LED	O		L	Standby LED (Active : Low)
21	P3C/TIOA2_1	DISPLAY_LED	O		L	Display Off LED (Active : High)
22	P3D/TIOA3_1	CHARGE_LED	O		L	Charge LED (Active : HIGH)

Pin	Symbol	Pin Name	I/O	Pu/Pd	STBY	Description
23	P3E/TIOA4_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
24	P3F/TIOA5_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
25	VSS	VSS				VSS
26	VCC	VCC				VCC
27	P40/INT12_1/TIOA0_0	VFD_RST	O		L	VFD Reset
28	P41/INT13_1/TIOA1_0	VFD_DI	O		L	VFD Data In
29	P42/TIOA2_0	VFD_CS	O		L	VFD CS
30	P43/TIOA3_0/ADTG_7	VFD_CLK	O		L	VFD Clock
31	P44/TIOA4_0/MAD00_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
32	P45/TIOA5_0/MAD01_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
33	CAP	CAP				CAP
34	VSS	VSS				VSS
35	VCC	VCC				VSS
36	P46/X0A	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
37	P47/X1A	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
38	INITX	RESET				MCU RESET
39	P48/INT14_1/SIN3_2/MAD02_1	F_MUTE	O		L	Function Mute (Active : Low)
40	P49/TIOB0_0/SOT3_2/MAD03_1	CD_USB_SP-DIF_Control	O		L	CD USB Dac Select Pin (USB : High / CD : Low)
41	P4A/TIOB1_0	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
42	P4B/TIOB2_0	DIT_PDN	O		L	AK4104 Power (Active : High)
43	P4C/TIOB3_0/SCK7_1/CECO	DIT_CSN	O		L	AK4104 CS
44	P4D/TIOB4_0/SOT7_1	DIT_CDTI	O		L	AK4104 Data in
45	P4E/TIOB5_0/INT06_2/SIN7_1	DIT_CLK	O		L	AK4104 Clock
46	PE0/MD1	UPDATE_MD1	I		L	MCU update mode1 change(LowFixed)
47	MD0	UPDATE_MD0	I		L	MCU update mode0 change(Low:Normal,High:Update)
48	X0	XTAL1				X-tal(4MHZ)
49	X1	XTAL2				X-tal(4MHZ)
50	VSS	VSS				VSS
51	VCC	VCC				VCC
52	P10/AN00	KEY0	I	Pu	-	KEY 0 (ADC Input)
53	P11/AN01/SIN1_1/IN02_1/WKUP1	KEY1	I	Pu	-	KEY 1 (ADC Input)
54	P12/AN02/SOT1_1	KEY2	I	Pu	-	KEY 2 (ADC Input)
55	P13/AN03/SCK1_1/RTCCO_1/SUBOUT_1	Version Option	I	Pu	-	Version Option (ADC Input)
56	P14/AN04/INT03_1	LD_CHK	I	Pu	-	Laser Check (ADC Input)
57	P15/AN05	USB_EN	O		L	USB 5V
58	P16/AN06/SCK0_1/MAD14_1	USB_OC	I		L	USB Over Current Detect
59	P17/AN07/SIN2_2/INT04_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
60	AVCC	AVCC				AVCC
61	AVRH	AVRH				AVRH
62	AVSS	AVSS				AVSS
63	P18/AN08/SOT2_2	HP_GAIN1	O		L	Headphone Gain Switch 1
64	P19/AN09/SCK2_2	HP_GAIN2	O		L	Headphone Gain Switch 2
65	P1A/AN10/SIN4_1/INT05_1/MAD18_1	USB_Reset	O		L	uPD63530 Reset
66	P1B/AN11/SOT4_1/MAD19_1	USB_RTS	O	Pd	L	uPD63530 RTS
67	P1C/AN12/SCK4_1/MAD20_1	USB_SI	O	Pd	L	uPD63530 SI
68	P1D/AN13/CTS4_1/MAD21_1	USB_SO	I	Pd	L	uPD63530 SO
69	P1E/AN14/RTS4_1/MAD22_1	USB_CLK	O	Pd	L	uPD63530 CLOCK
70	P1F/AN15/ADTG_5/MAD23_1	USB_CTS	I	Pd	L	uPD63530 CTS
71	P23/AN16/SCK0_0/TIOA7_1	USB_WP	O	Pd	L	uPD63530 Flash Write protect Pin (Enable : High / Disable : Low)
72	P22/AN17/SOT0_0/TIOB7_1	UPDATE_TX	O		L	MCU uart update tx

Pin	Symbol	Pin Name	I/O	Pu/Pd	STBY	Description
73	P21/AN18/SINO_0/INT06_1/WKUP2	UPDATE_RX	I		L	MCU uart update rx
74	P20/AN19/INT05_0/CROUT_0/MAD24_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
75	VSS	VSS				VSS
76	VCC	VCC				VCC
77	P00/TRSTX	JTRST	I		-	J-Link emulator
78	P01/TCK/SWCLK	JTCK	I		-	J-Link emulator
79	P02/TDI	JTDI	I		-	J-Link emulator
80	P03/TMS/SWDIO	JTMS	O		-	J-Link emulator
81	P04/TDO/SWO	TDO	O		-	J-Link emulator
82	P05/INT00_1/AN20/TRACED0/TIOA5_2/SIN4_2/MCS5_1	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
83	P06/INT01_1/AN21/TRACED1/TIOB5_2/SOT4_2/MCSX4_1	EEPROM_SDA	I/O		L/H	EEPROM Data
84	P07/AN22/ADTG_0/MCLKOUT_1/TRACED2/SCK4_2	EEPROM_SCL	O		L/H	EEPROM Clock
85	P08/AN23/TRACED3/TIOA0_2/CTS4_2/MCSX3_1	IPOD_SDA	I/O	Pu	L	Apple Chip SDA
86	P09/TRACECLK/TIOB0_2/RTS4_2/MCSX2_1	IPOD_SCL	O	Pu	L	Apple Chip SCL
87	P0A/SIN4_0/INT00_2	CD_UBS2	I	Pu	L	CD Data Out (receive data from CD DSP)
88	P0B/SOT4_0/TIOB6_1	CD_UBS3	O	Pu	L	CD Data In (send command to CD DSP)
89	P0C/SCK4_0/TIOA6_1	CD_BUCK	O	Pu	L	CD Clock
90	P0D/RTS4_0/TIOA3_2/MDQM0_1	CD_CCE	O	Pu	L	CD Chip Select
91	P0E/CTS4_0/TIOB3_2/MDQM1_1	CD_DSP_RST	O	Pu	L	CD RESET
92	P0F/NMIX/CROUT_1/RTCCO_0/SUBOUT_0/WKUP0	CD_CLOSE_M	O		L	CD Close Motor
93	P63/INT03_0/MWEX_1	CD_OPEN_M	O		L	CD Open Motor
94	P62/SCK5_0/ADTG_3	CD_CLOSE_SW	I	Pu	L	CD Close Switch
95	P61/SOT5_0/TIOB2_2/UHCONX	CD_OPEN_SW	I	Pu	L	CD Open Switch
96	P60/SIN5_0/TIOA2_2/INT15_1/WKUP3/CEC1	CD_LIMIT_SW	I	Pu	L	CD Inner Switch
97	VCC	VCC				VCC
98	P80/UDM0	MT_STBY	O	Pu	L	CD Motor Standby
99	P81/UDP0	N.C	O		L	Case of OPEN : "I/O"="O", Output LOW
100	VSS	VSS				VSS

TC94A92FG (IC100)



Terminal Function

Pin No.	Symbol	I/O	Description	Default	Remarks
1	VCoI	O 3A/I/F	DSP VCO - EFM and PLCK Phase difference signal output pin. (DSP VCO control voltage input pin.)	O	3 state output
2	RVDD3	-	CD-DSP-Power supply for 3.3V RF amplifier core and PLL circuit	-	
3	SLCo	O 3A/I/F	EFM slice level output pin	O	Connect capacitor according with se nvo frequency band.
4	RFI	I 3A/I/F	RF signal input pin	I	Selectable Zin 20/10 kΩ
5	RFRPI	I 3A/I/F	RF ripple signal input pin	I	
6	RFEQo	O 3A/I/F	RF equalizer circuit output pin.	O	Connect to RFRPI by 0.1uF, to RFI by 4700pF.
7	DCoFC	O 3A/I/F	RFEQo offset compensation LPF output	O	Connect to Vro by more than 0.015uF
8	AGCI	I 3A/I/F	RF signal AGC amplifier input pin	I	
9	RFo	O 3A/I/F	RF signal generation amplifier output pin	O	
10	RVSS3	-	Grounding pin for 3.3 RF amplifier core and PLL circuit	-	
11	FNI2	I 3A/I/F	Main beam signal input pin. To be connected to PIN diode C.	I	
12	FNI1	I 3A/I/F	Main beam signal input pin. To be connected to PIN diode A.	I	
13	FPI2	I 3A/I/F	Main beam signal input pin. To be connected to PIN diode D.	I	
14	FPI1	I 3A/I/F	Main beam signal input pin. To be connected to PIN diode B.	I	
15	TPI	I 3A/I/F	Sub beam signal input pin. To be connected to PIN diode F.	I	
16	TNI	I 3A/I/F	Sub beam signal input pin. To be connected to PIN diode E.	I	
17	VRo	O 3A/I/F	1.65 V reference voltage output pin.	O	Connected to PVREF, And connect to GNG by 0.1uF+100uF.
18	AVSS3	-	Grounding pin for 3.3V CD analog circuits.	-	
19	MDI	I 3A/I/F	Monitor photodiode amplifier input pin.	I	Reference Voltage=178mVtyp.
20	LDo	O 3A/I/F	Laser diode amplifier output pin	O	

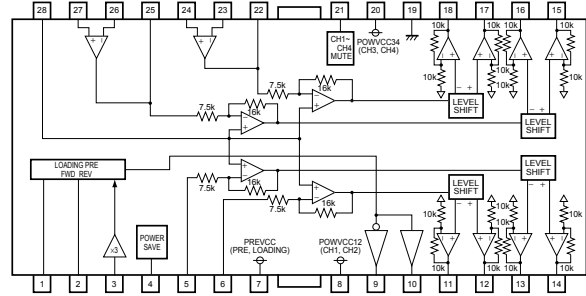
Pin No.	Symbol	I/O	Description	Default	Remarks
21	FSMoNIT	O 3A/I/F	Focus Error signal / Sub beam add signal output pin(monitor pin/GND)	O	
22	RFZI	I 3A/I/F	RF ripple zero-cross signal Input pin	I	
23	RFRP	O 3A/I/F	RF ripple signal output pin.	O	
24	TEI	O 3A/I/F	Tracking error signal output pin.	O	Built-in series R=500Ω. Connect to VRo by capacitor.
25	AVDD3	-	Power supply pin for 3.3 V CD analog circuits.	-	
26	FOo	O 3A/I/F	Focus servo equalizer output pin.	O	Built-in series R=3.3 kΩ
27	TRo	O 3A/I/F	Tracking servo equalizer output pin.	O	Built-in output R=3.3 kΩ
28	VSS-3	-	Grounding pin for 1.5V Decoder-DSP CD circuit	-	
29	FMo	O 3A/I/F	Feed servo equalizer output pin.	O	Built-in output R=3.3 kΩ
30	FMoS	O 3A/I/F	Feed servo equalizer output pin. (Stepper motor application)	O	Built-in output R=3.3 kΩ
31	DMo	O 3A/I/F	Disc servo equalizer output pin	O	Built-in output R=3.3 kΩ
32	VDD1-3	I/O 3I/F	Power supply pin for 1.5V Decoder-DSP /CD circuit	-	
33	Pio8	I/O 3I/F	Port 8 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
34	Pio9	I/O 3I/F	Port 9 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
35	Pio10	I/O 3I/F	Port 10 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
36	Pio11	I/O 3I/F	Port 11 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
37	Pio12/ CDMoN0/ FGIN	I/O 3I/F	Port 12 (General Input/Output Port) / CD Monitor 0 / FG signal input	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
38	Pio13/ CDMoN1	I/O 3I/F	Port 13 (General Input/Output Port) / CD Monitor1	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
39	Pio14/ CDMoN2	I/O 3I/F	Port 14 (General Input/Output Port) / CD Monitor 2	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
40	CDMoN3	O 3I/F	CD Monitor3 (Default output : SBSY)	O	CMOS Port Refer to [1.2 Pin Assinment Table]

Pin No.	Symbol	I/O	Description	Default	Remarks
41	DVSS3R	-	Grounding pin for 3.3V Multi-Bit DAC circuit	-	
42	Ro	O 3A/I/F	R channel audio output pin of Audio DAC.	O	
43	DVDD3R	-	Power supply pin for 3.3V Audio DAC circuit.	-	
44	DVDD3L	-	Power supply pin for 3.3V Audio DAC circuit.	-	
45	Lo	O 3A/I/F	L channel audio output pin of Audio DAC	O	
46	DVSS3L	-	Grounding pin for 3.3V Multi-Bit DAC Circuit	-	
47	XVSS3	-	Grounding pin for 3.3V clock oscillator circuit	-	
48	Xi	I 3A/I/F	System clock Input pin	I	Xtal oscillation circuit. Connect feedback resistor 1 MΩ between Xo and Xi
49	Xo	O 3A/I/F	System clock Output pin	O	
50	XVDD3	-	Power Supply pin for 3.3V clock oscillator circuit	-	
51	VDD1-2	-	Power Supply pin for 1.5V Digital circuit	-	
52	VSS-2	-	Grounding pin for 1.5V digital circuit	-	
53	Pio0	I/O 3I/F	Port 0 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
54	Pio1	I/O 3I/F	Port 1 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
55	Pio2	I/O 3I/F	Port 2 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
56	Pio3	I/O 3I/F	Port 3 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
57	Pio4	I/O 3I/F	Port 4 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
58	Pio5	I/O 3I/F	Port 5 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
59	Pio6	I/O 3I/F	Port 6 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
60	Pio7	I/O 3I/F	Port 7 (General Input/Output Port)	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]

Pin No.	Symbol	I/O	Description	Default	Remarks
61	VDD3	-	Power Supply pin for 3.3V Digital circuit	-	
62	BUS0	I/O 3I/F	Microprocessor I/F data input/output pin 0	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
63	BUS1	I/O 3I/F	Microprocessor I/F data input/output pin 1	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
64	BUS2	I/O 3I/F	Microprocessor I/F data input/output pin 2	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
65	BUS3	I/O 3I/F	Microprocessor I/F data input/output pin 3	I	CMOS Port Schmitt input Refer to [1.2 Pin Assinment Table]
66	BUCK	I 3I/F	Microprocessor I/F BUS clock Input pin	I	Schmitt input Refer to [1.2 Pin Assinment Table]
67	/CCE	I 3I/F	Microprocessor I/F chip enable input pin	I	Schmitt input Refer to [1.2 Pin Assinment Table]
68	MS	I 3I/F	Microprocessor I/F mode selection pin. "H": Parallel I/F, "L": Serial I/F	I	Refer to [1.2 Pin Assinment Table]
69	/RST	I 3I/F	Reset Input pin	I	Schmitt input
70	Test	I 3I/F	Test pin ("L" fixed)	I	Connect to GND for normal operation
71	VDD1-1	-	Power Supply pin for 1.5V Digital circuit	-	
72	VSS-1	-	Grounding pin for 1.5V Digital circuit	-	
73	/SRAMSTB	I 3I/F	1Mbit SRAM stand by pin(/SRAMSTB="L")	I	
74	VDDM1	-	Power Supply for 1.5V 1Mbit SRAM circuit	-	
75	PDo	O 3AI/F	EFM and PLCK Phase difference signal output pin.	O	4-state output (RVDD3, RVSS3,PVREF, Hiz)
76	TMAX	O 3AI/F	TMAX detection result output pin	O	3-state output (RVDD3, RVSS3, Hiz)
77	LPFN	I 3AI/F	PLL circuit LPF amplifier inversion input pin	I	
78	LPFo	O 3AI/F	PLL circuit LPF amplifier Output pin	O	
79	PVREF	-	PLL circuit 1.65 V reference voltage pin.	-	Connected to VRO. Connect to GND by 0.1uF and 100uF.
80	VCoF	O 3AI/F	VCO filter pin	O	Connect to GND by 0.01uF

3AI/F : 3 V analog circuit input/output pin.
1.5 I/F : 1.5Vdigital input/output pin.
3 I/F : 3 V digital input/output pin.

BA5810 (IC101)

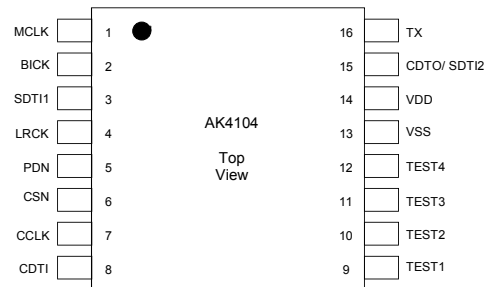


■各端子説明

Pin No.	端子名	機 能	Pin No.	端子名	機 能
1	FWD	ローディングドライバFWD入力端子	15	VO4 (+)	ドライバCH4正出力
2	REV	ローディングドライバREV入力端子	16	VO4 (-)	ドライバCH4負出力
3	LDCONT	ローディングドライバ出力電圧制御端子	17	VO3 (+)	ドライバCH3正出力
4	PS	パワーセーブコントロール端子	18	VO3 (-)	ドライバCH3負出力
5	IN1	ドライバCH1入力端子	19	GND	グランド端子
6	IN2	ドライバCH2入力端子	20	POWVCC34	CH3,CH4パワー段電源端子
7	PREVCC	プリ段、ローディングパワー段電源端子	21	MUTE	ミュートコントロール端子
8	POWVCC12	CH1,CH2パワー段電源端子	22	OPOUT3	CH3前段アンプ出力端子
9	VOL (-)	ローディングドライバ負出力	23	OPIN3 (-)	CH3前段アンプ反転入力端子
10	VOL (+)	ローディングドライバ正出力	24	OPIN3 (+)	CH3前段アンプ非反転入力端子
11	VO2 (-)	ドライバCH2負出力	25	OPOUT4	CH4前段アンプ出力端子
12	VO2 (+)	ドライバCH2正出力	26	OPIN4 (-)	CH4前段アンプ反転入力端子
13	VO1 (-)	ドライバCH1負出力	27	OPIN4 (+)	CH4前段アンプ非反転入力端子
14	VO1 (+)	ドライバCH1正出力	28	BIAS	バイアス入力端子

注：ドライバの正出力、負出力は入力に対する順性
(例えば5pin端子電圧がHIGHのとき、14pinがHIGHになります。)

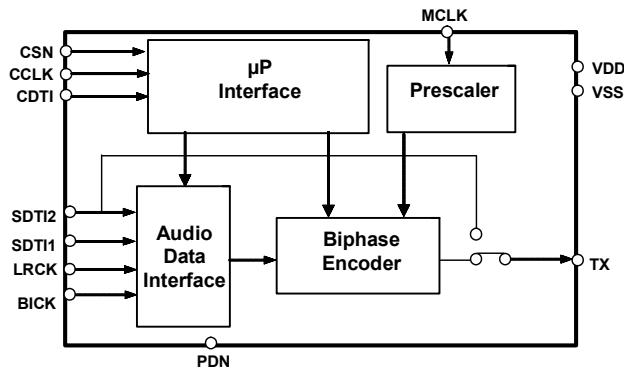
AK4104 (IC104)



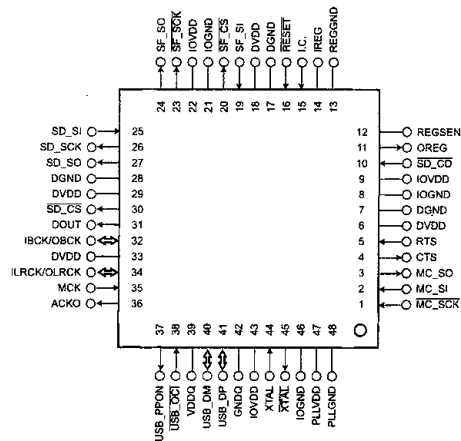
Terminal Function

No.	Pin Name	I/O	Function
1	MCLK	I	Master Clock Input Pin
2	BICK	I	Audio Serial Data Clock Pin
3	SDTI1	I	Audio Serial Data Input 1 Pin
4	LRCK	I	Input Channel Clock Pin
5	PDN	I	Power Down and Reset Pin "L": Power down and Reset, "H": Power up
6	CSN	I	Chip Select Pin
7	CCLK	I	Control Data Clock Pin
8	CDTI	I	Control Data Input Pin
9	TEST1	I	TEST Pin This pin should be connected to VDD.
10	TEST2	O	TEST Pin This pin should be OPEN.
11	TEST3	O	TEST Pin This pin should be OPEN.
12	TEST4	O	TEST Pin This pin should be OPEN.
13	VSS	-	Ground Pin
14	VDD	-	Power Supply Pin, 2.7 ~ 3.6V
15	CDT0	O	Control Data Output Pin, The output is "Hi-Z" when PDN pin = "L".
15	SDTI2	I	Audio Serial Data Input 2 Pin
16	TX	O	Transmit Channel Output Pin, The output is "L" when PDN pin = "L" or RSTN bit = "0" or PW bit = "0" or MCLK stops.

Block Diagram



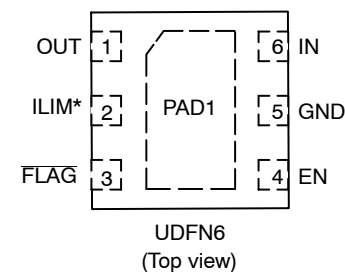
UPD63530 (IC105)



Terminal Function

Pin No.	Pin Name	I/O	RESET Status	Handling of Unused Pins	Description
1	MC_SCK	I	Hi-Z	--	3-wire serial interface pin (command communication clock) (Host interface)
2	MC_SI	I	Hi-Z	--	3-wire serial interface pin (command communication data input) (Host interface)
3	MC_SO	O	Hi-Z	--	3-wire serial interface pin (command communication data output) (Host interface)
4	CTS	O	Hi-Z	--	Output for command communication CTS control (Host interface)
5	RTS	I	Hi-Z	--	Input for command communication RTS control (Host interface)
6	DVDD	--	--	--	Power supply for internal digital circuits (1.0 V)
7	DGND	--	--	--	GND for internal digital circuits
8	IOGND	--	--	--	GND for digital I/O buffers
9	IOVDD	--	--	--	Power supply for digital I/O buffers (3.3 V)
10	SD_CD	I	Hi-Z	Pull down	Input for SD card detection (SD card interface)
11	OREG	O	O	--	Driver pin for external regulator transistor (1.0 V: Reference output)
12	REGSEN	--	--	--	Sensing input for 1.0 V internal regulator (1.0 V)
13	REGGND	--	--	--	GND for internal regulator
14	IREG	--	--	--	Power supply for OREG generator (3.3 V)
15	I.C.	--	--	GND	--
16	RESET	I	I	--	Device reset pin
17	DGND	--	--	--	GND for internal digital circuits
18	DVDD	--	--	--	Power supply for internal digital circuits (1.0 V)
19	SF_SI	I	Hi-Z	--	3-wire serial interface pin (serial data input for SD card) (Serial flash interface)
20	SF_CS	O	Hi-Z	--	3-wire serial interface pin (chip select input for serial flash) (Serial flash interface)
21	IOGND	--	--	--	GND for digital I/O buffers

NCP380 (IC106)



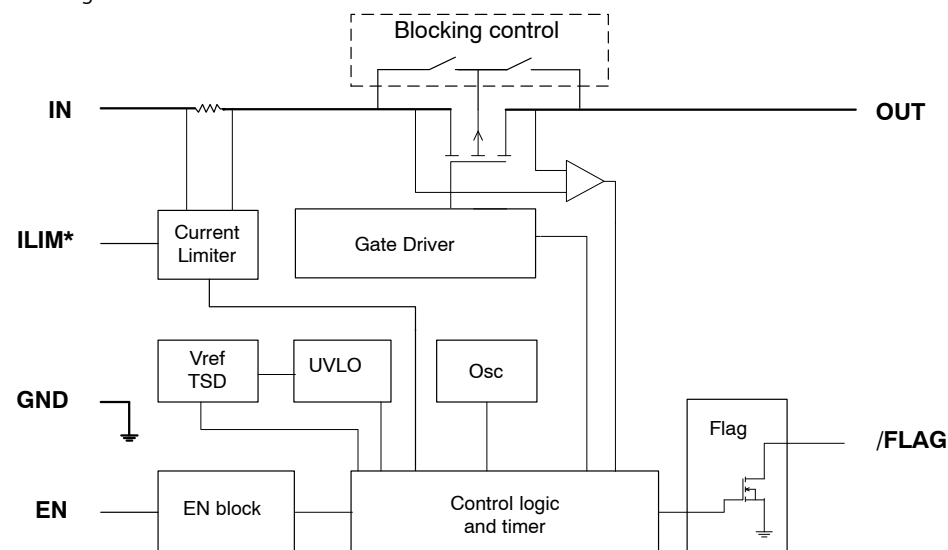
Terminal Function

Pin Name	Type	Description
EN	INPUT	Enable input, logic low/high (i.e. EN or EN) turns on power switch
GND	POWER	Ground connection;
IN	POWER	Power-switch input voltage; connect a 1 μ F or greater ceramic capacitor from IN to GND as close as possible to the IC.
FLAG	OUTPUT	Active-low open-drain output, asserted during overcurrent, overtemperature or reverse-voltage conditions. Connect a 10 k Ω or greater resistor pull-up, otherwise leave unconnected.
OUT	OUTPUT	Power-switch output; connect a 1 μ F ceramic capacitor from OUT to GND as close as possible to the IC is recommended. A 1 μ F or greater ceramic capacitor from OUT to GND must be connected if the USB requirement (i.e. 120 μ F capacitor minimum) is not met.
ILIM*	INPUT	External resistor used to set current-limit threshold; recommended 5 k Ω < R _{ILIM} < 250 k Ω .
PAD1**	THERMAL	Exposed Thermal Pad: Must be soldered to PCB Ground plane

*(For adjustable version only, otherwise not connected).

**For DFN version only.

Block Diagram



Pin No.	Pin Name	I/O	RESET Status	Handling of Unused Pins	Description
22	IOVDD	—	—	—	Power supply for digital I/O buffers (3.3 V)
23	SF_SCK	O	Hi-Z	—	3-wire serial interface pin (serial clock for serial flash) (Serial flash interface)
24	SF_SO	O	Hi-Z	—	3-wire serial interface pin (serial data output for serial flash) (Serial flash interface)
25	SD_SI	I	Hi-Z	Pull down	3-wire serial interface pin (serial data input for SD card) (SD card interface)
26	SD_SCK	O	Hi-Z	Pull down	3-wire serial interface pin (serial clock for SD card) (SD card interface)
27	SD_SO	O	Hi-Z	Pull down	3-wire serial interface pin (serial data output for SD card) (SD card interface)
28	DGND	—	—	—	GND for internal digital circuits
29	DVDD	—	—	—	Power supply for internal digital circuits (1.0 V)
30	SD_CS	O	Hi-Z	Pull down	Chip select input for SD card (SD card interface)
31	DOUT	O	Hi-Z	Pull down	Output pin for 3-wire audio interface (IIS) (External audio DAC interface)
32	ISCK/OSCK	I/O	Hi-Z	Pull down	Bit clock pin for 3-wire audio interface (IIS) (External audio DAC interface)
33	DVDD	—	—	—	Power supply for internal digital circuits (1.0 V)
34	ILRCK/OLRCK	I/O	Hi-Z	Pull down	Audio LR clock for 3-wire audio interface (IIS) (External audio DAC interface)
35	MCK	I	Hi-Z	Pull down	Clock input for 3-wire audio interface (IIS) (External audio DAC interface)
36	ACKO	O	Hi-Z	Pull down	Output pin for 3-wire audio interface (IIS) (External Audio DAC interface)
37	USB_PON	O	Hi-Z	Pull down	Output pin for power supply (USB interface)
38	USB_OC	I	Hi-Z	Pull up	Input pin for overcurrent on USB-VBUS (USB interface)

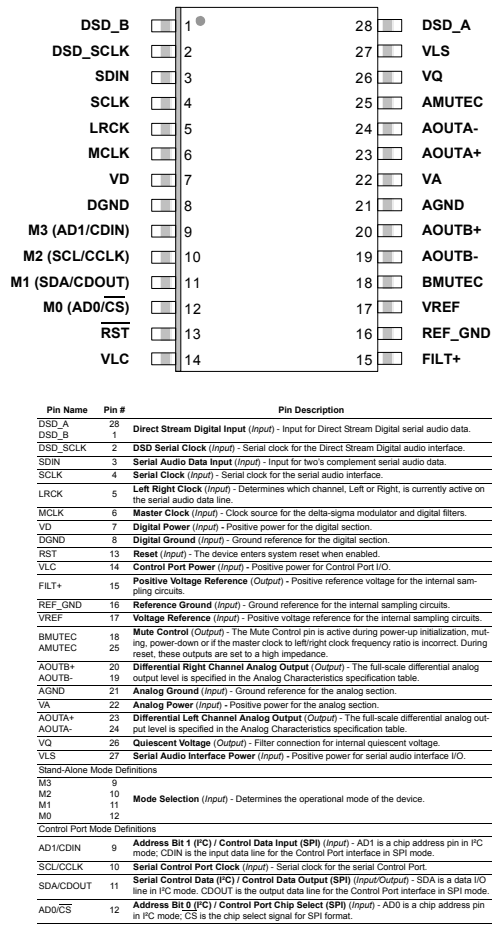
Note: This pin must be pulled up.

Pin No.	Pin Name	I/O	RESET Status	Handling of Unused Pins	Description
39	VDDQ	—	—	—	Power supply for USB (3.3 V)
40	USB_DM	I/O	L	Leave open	USB data - (minus) (USB interface)
41	USB_DP	I/O	L	Leave open	USB data + (plus) (USB interface)
42	GNDD	—	—	—	Analog GND for USB
43	IOVDD	—	—	—	Power supply for digital I/O buffers (3.3 V)
44	XTAL	I	—	—	Oscillator clock (48 MHz)
45	XTAC	O	—	—	Oscillator clock (48 MHz)
46	IOGND	—	—	—	GND for digital I/O buffers
47	PLLVDD	—	—	—	Power supply for PLL (1.0 V)
48	PLLGND	—	—	—	GND for PLL

CS4398 (IC3504)

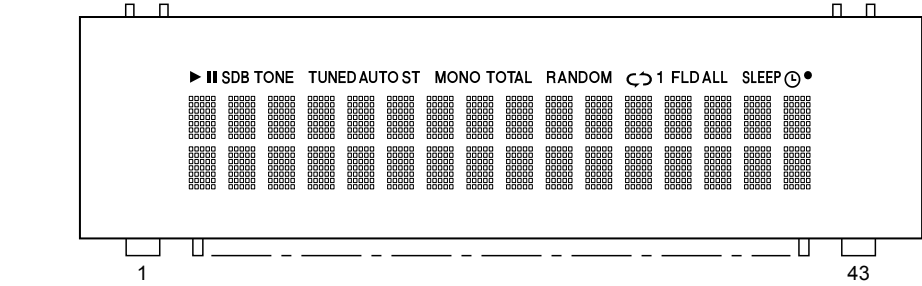
Terminal Function

Block Diagram



2. FL DISPLAY

V.F.D (FUTABA, 16ST103GINK) (U4003)



PIN CONNECTION

CONNECTION	PIN NO.
F1	1
NP	2
NP	3
NC	4
NC	5
NC	6
NC	7
NC	8
NC	9
NC	10
NC	11
NC	12
NC	13
NC	14
NX	15
NX	16
NX	17
NX	18
NX	19
NX	20
NX	21
NX	22
NX	23
NX	24
NX	25
NX	26
NX	27
NX	28
NX	29
NX	30
TSA	31
DA	32
CP	33
CS	34
RESET	35
OSC	36
VDD	37
VH	38
PGND	39
LGND	40
NP	41
NP	42
F2	43

NOTE

- 1) F1, F2 ----Filament
- 2) NP -----No pin
- 3) NC -----No connection
(NC pin should be electrically open on the PC board)
- 4) NX -----No extend pin
- 5) DL -----Datum Line
- 6) LGND ----Logic GND pin
- 7) PGND ----Power GND pin
- 8) VH -----High Voltage Supply pin
- 9) VDD -----Logic Voltage Supply pin
- 10) CP ----Shift Register Clock
- 11) DA ----Serial Data Input
- 12) TSA, B --Test pin
- 13) CS -----Chip Select Input pin
- 14) RESET --Reset Input
- 15) OSC ----Pin for self-oscillation
- 16) Solder composition is Sn-3Ag-0.5Cu.

DISASSEMBLY

Flowchart

1. TRAY PANEL

2. FRONT PANEL ASSY

3. MECHA ASSY

4. MAIN PCB

5. POWER PCB

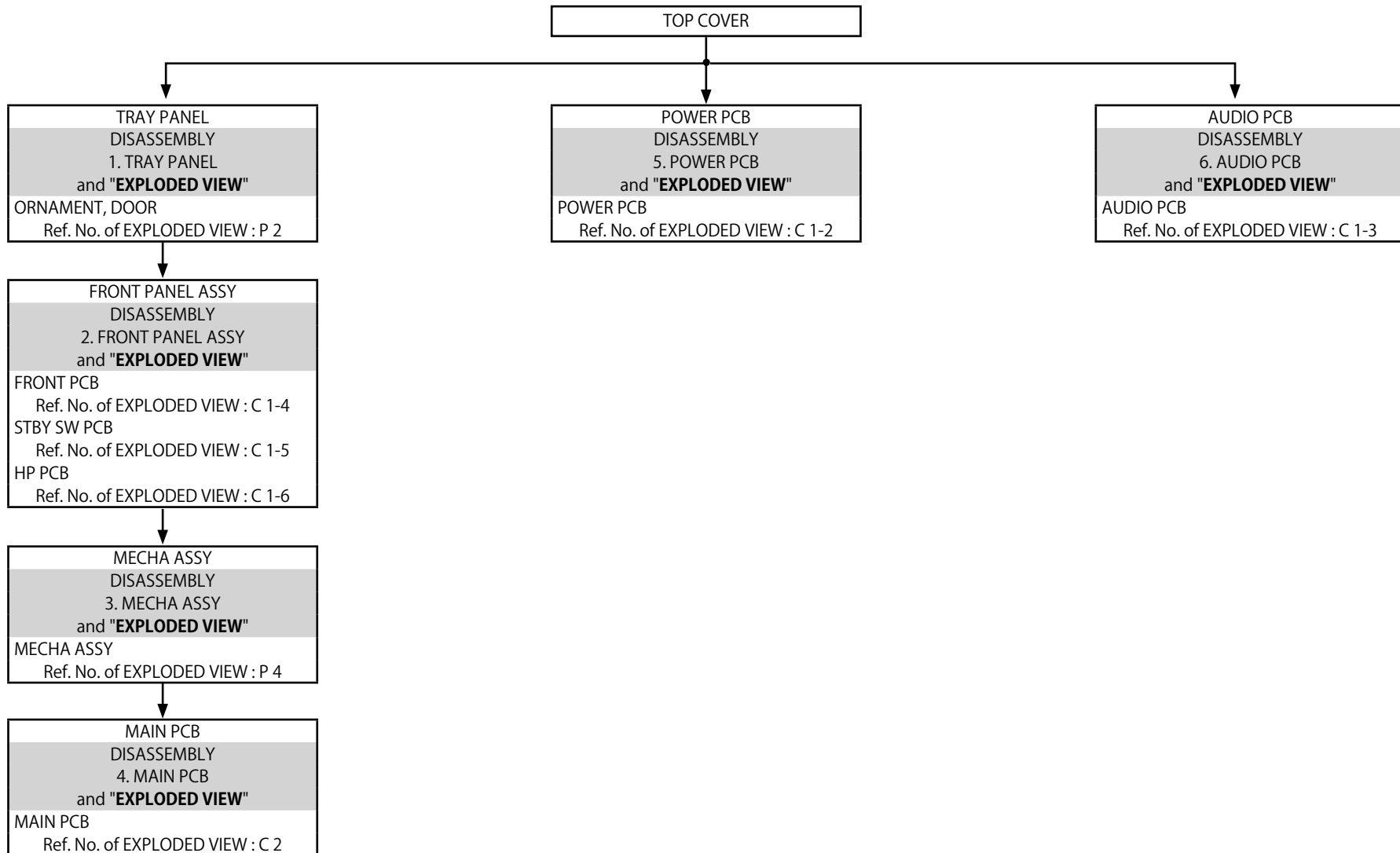
6. AUDIO PCB

EXPLODED VIEW

PACKING VIEW

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](#)"

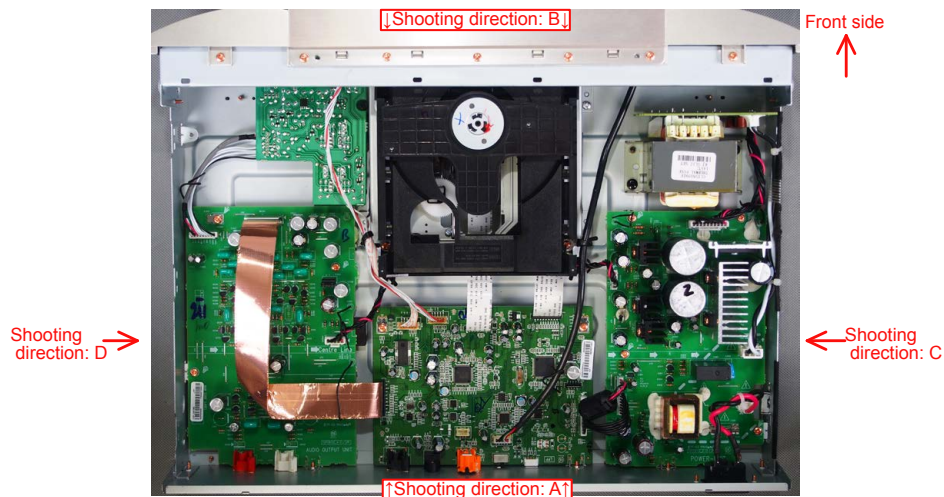


Explanatory Photos for DISASSEMBLY

- 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 CD6006 N1SG are used in this manual.

The viewpoint of each photograph

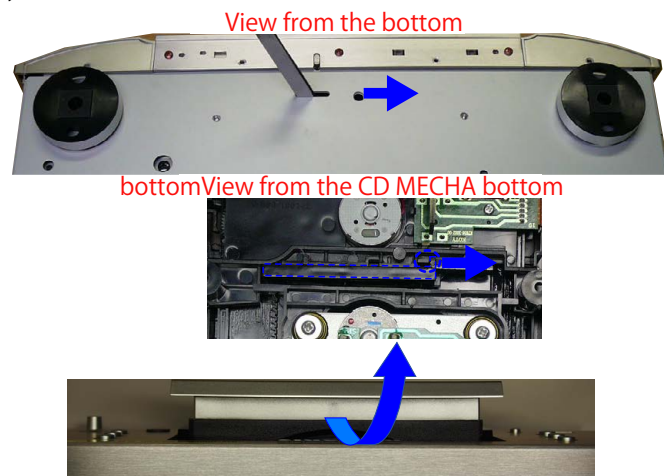
(Shooting direction : X) [View from the top]



1. TRAY PANEL

Proceeding : TOP COVER → TRAY PANEL

- (1) Open the tray and remove the TRAY PANEL.



NOTE: Please remove slowly so as not to damage the hook of Tray and LOADER PANEL.

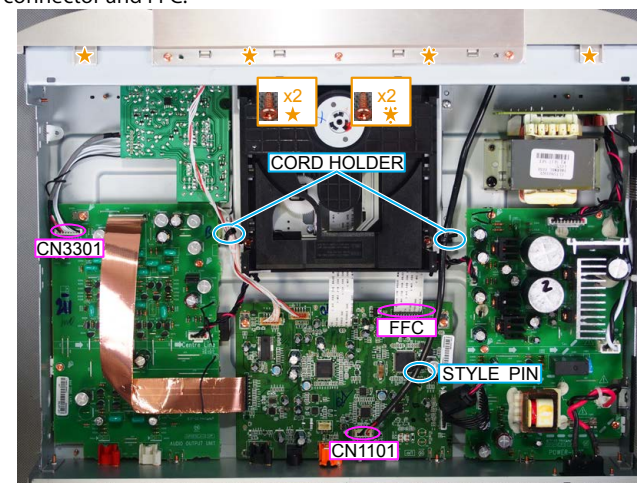
2. FRONT PANEL ASSY

Proceeding : TOP COVER → TRAY PANEL → FRONT PANEL ASSY

- (1) Remove the screws.



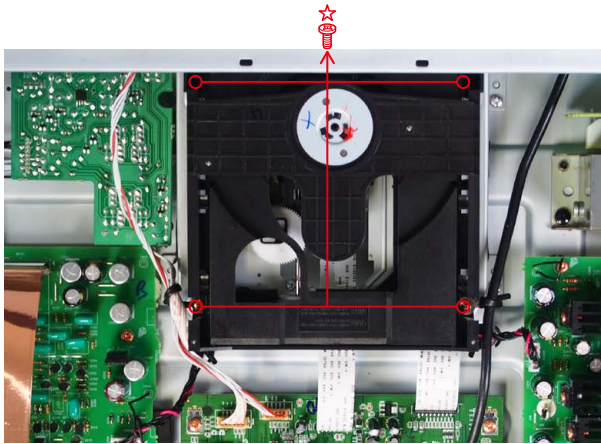
- (2) Remove the screws. Remove the STYLE PIN and CORD HOLDER. Remove the connector and FFC.



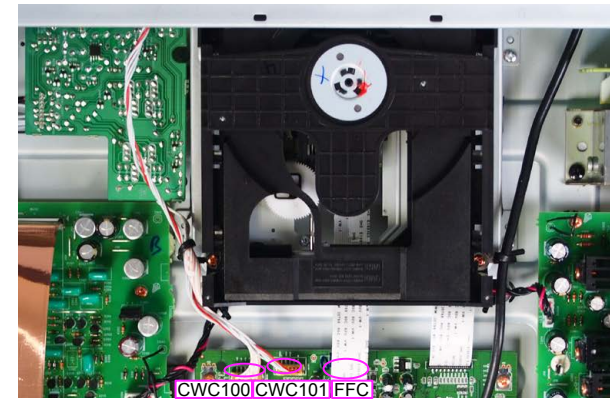
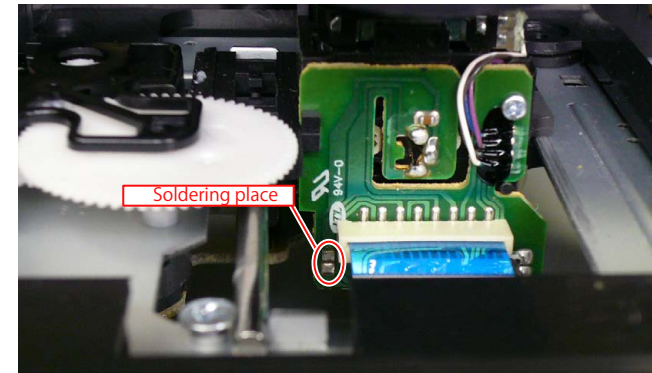
3. MECHA ASSY

Proceeding : TOP COVER → TRAY PANEL → FRONT PANEL ASSY → MECHA ASSY

(1) Remove the screws.



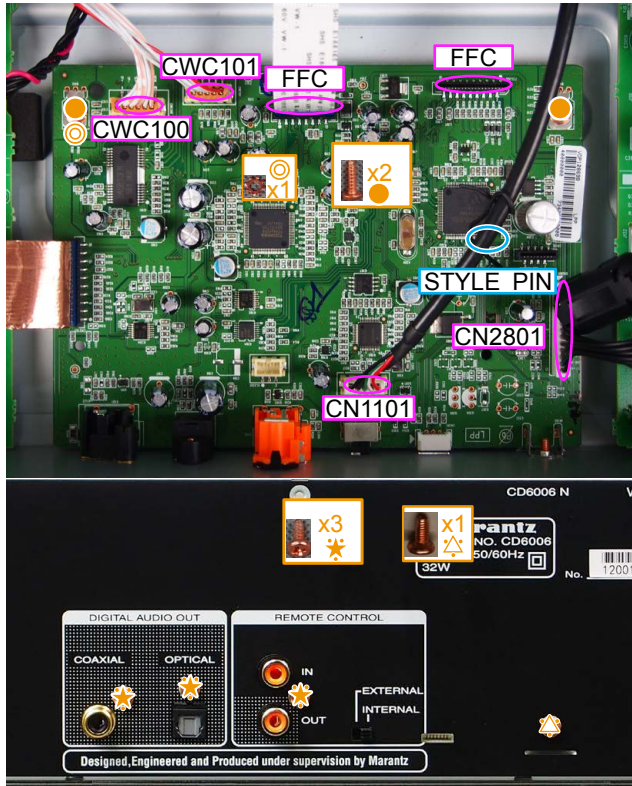
(2) Short the pickup protective solder for the CD mechanism. Then remove the connector and FFC. Be sure to wear an earth band. Remove the connector.



4. MAIN PCB

Proceeding : **TOP COVER** → **TRAY PANEL** → **FRONT PANEL ASSY** → **MECHA ASSY**
→ **MAIN PCB**

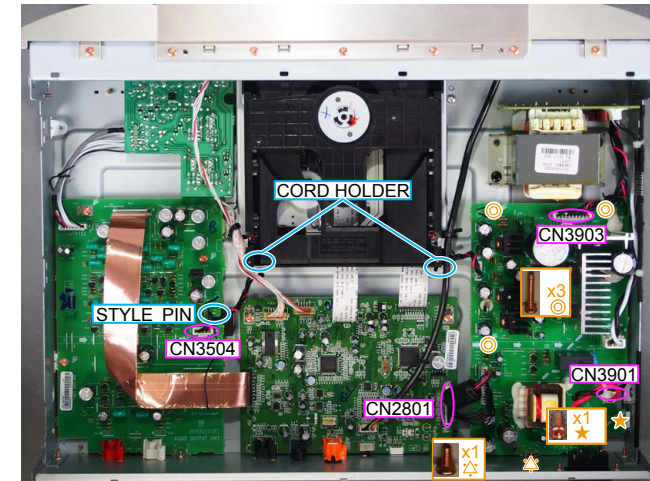
- (1) Remove the screws. Remove the STYLE PIN and connectors.
Short the pickup protective solder for the CD mechanism. Then remove the FFC.
Be sure to wear an earth band.



5. POWER PCB

Proceeding : **TOP COVER** → **POWER PCB**

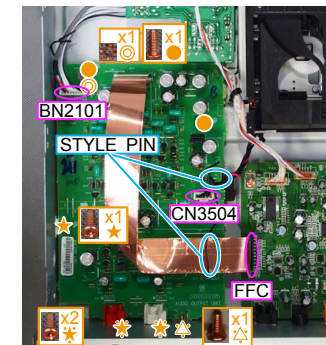
- (1) Remove the screws. Remove the STYLE PIN and CORD HOLDER. Remove the connector.

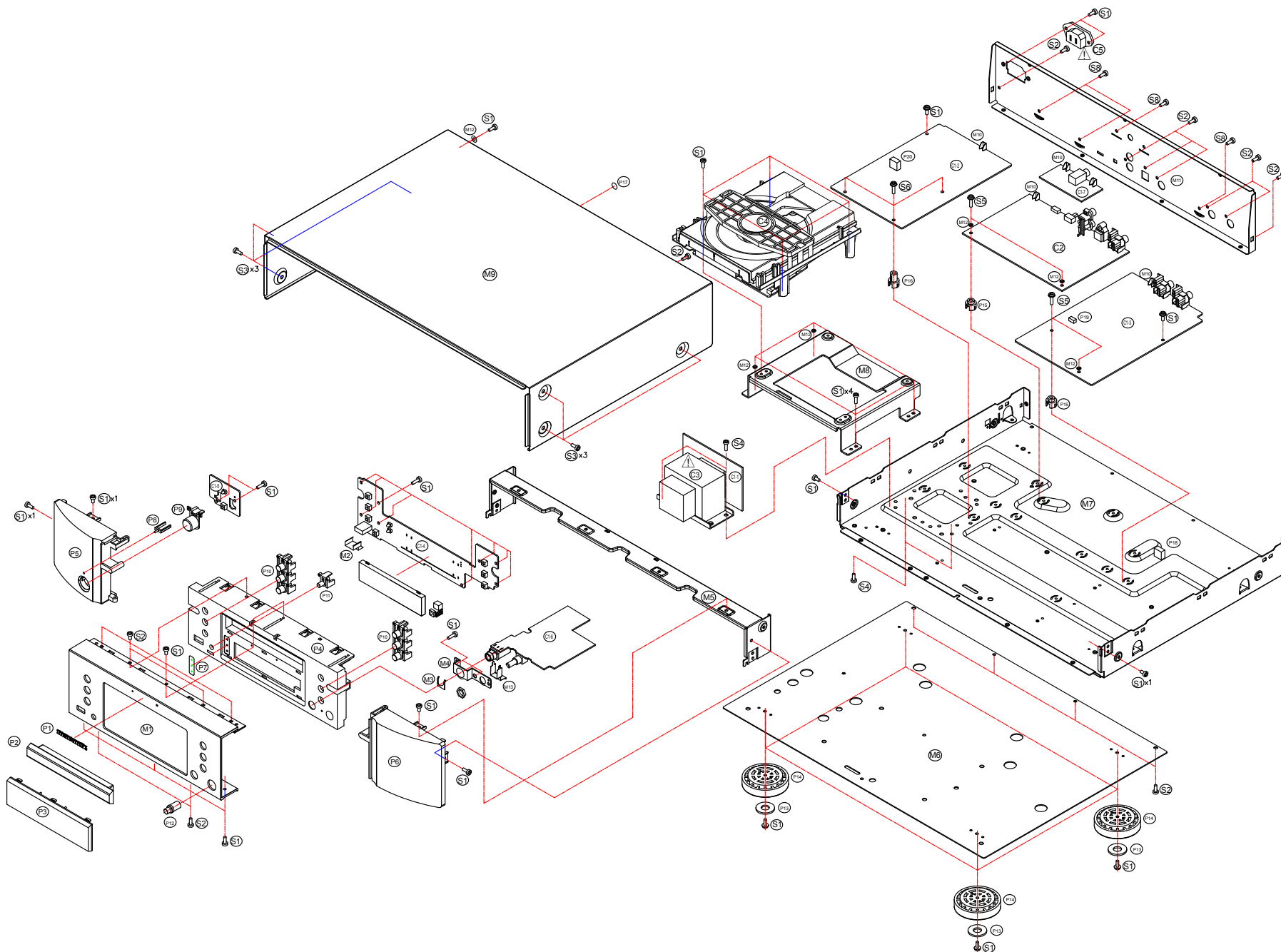


6. AUDIO PCB

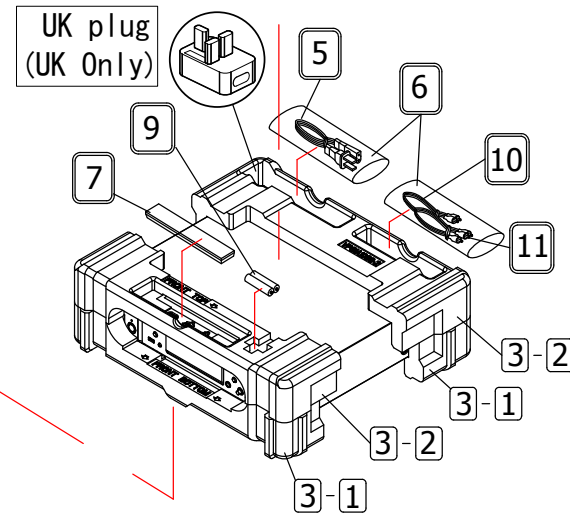
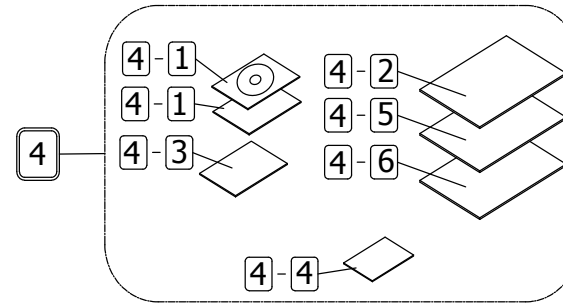
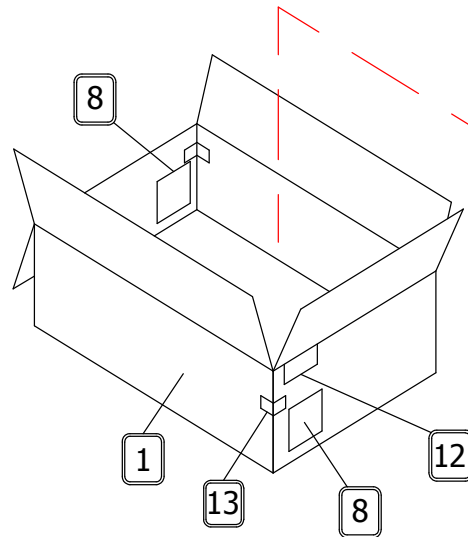
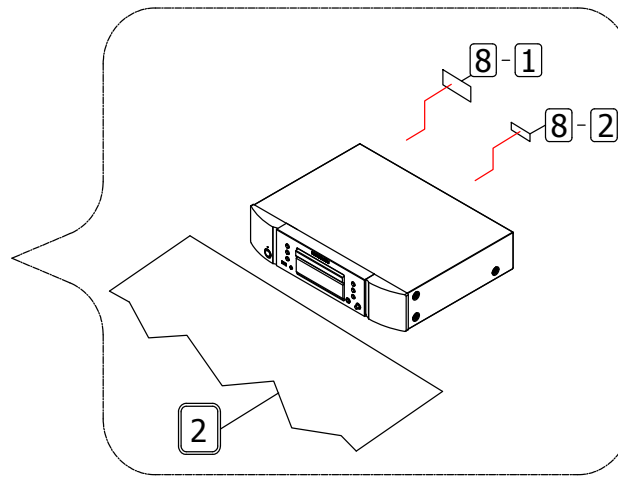
Proceeding : **TOP COVER** → **AUDIO PCB**

- (1) Remove the screws. Remove the STYLE PIN. Remove the connector and FFC.





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



TROUBLE SHOOTING

- 1. POWER
- 2. FLD
- 3. No audio output.

MEASURING METHOD AND WAVEFORMS

NOTES ON HANDLING AND REPLACEMENT OF THE LASER PICK-UP

- 1. Protection of the LD
- 2. Precautions when handling the laser CD mechanism
- 3. Cautions on assembling and adjustment
- 4. Notes on Handling the Laser Pick-Up

SPECIAL MODE

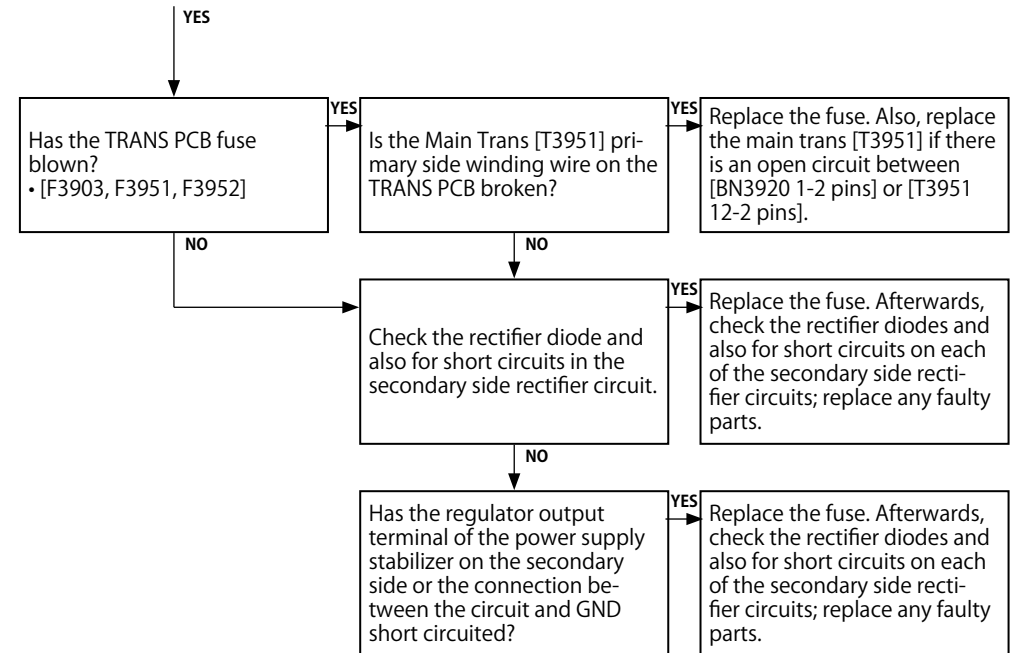
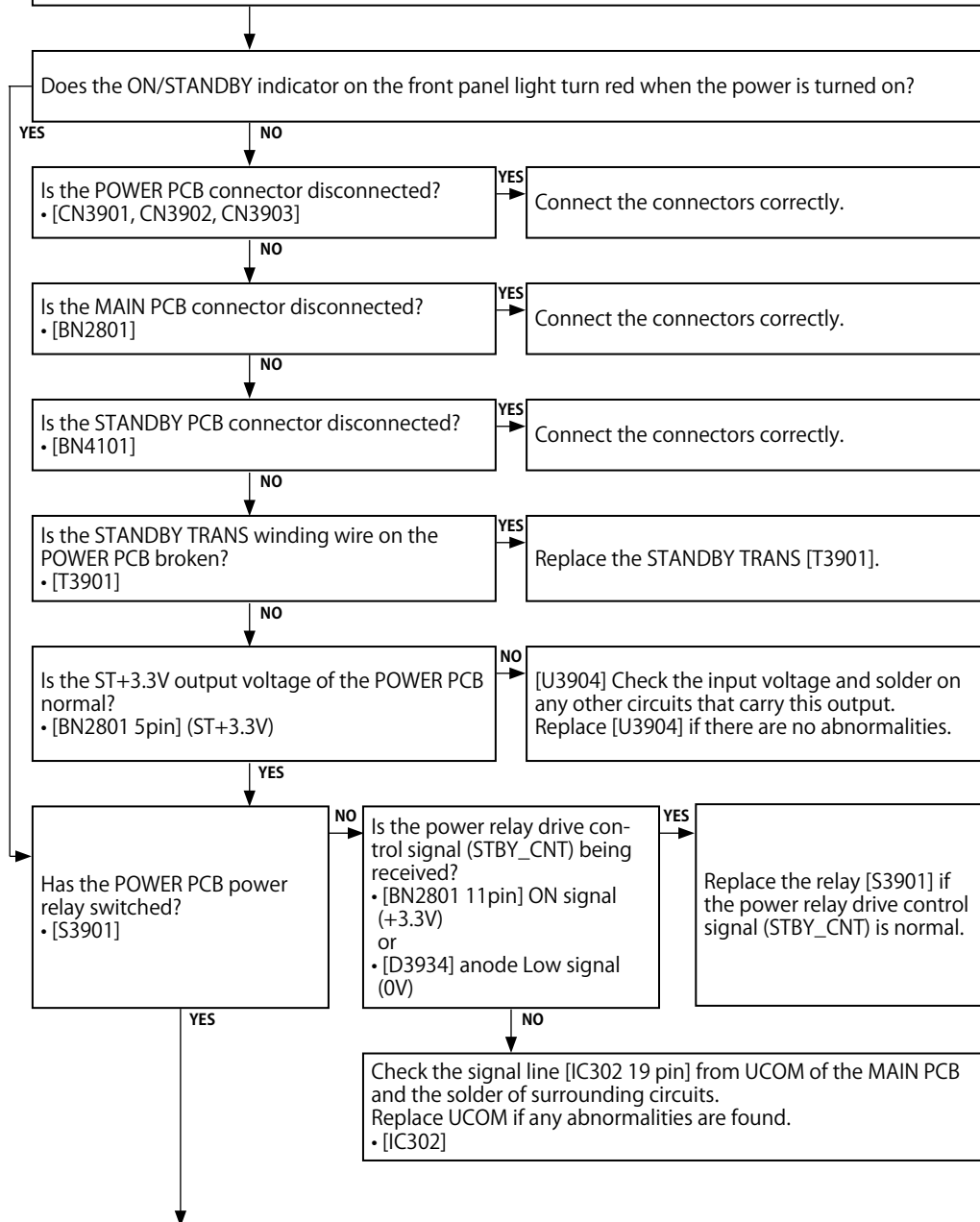
Special mode setting button

- 1. Version Display Mode
- 2. Display check mode
- 3. Initialization (cold start)
- 4. CD test mode
- 5. CD Heat run mode
- 6. Accumulated laser on time display mode
- 7. Timer check mode

TROUBLE SHOOTING

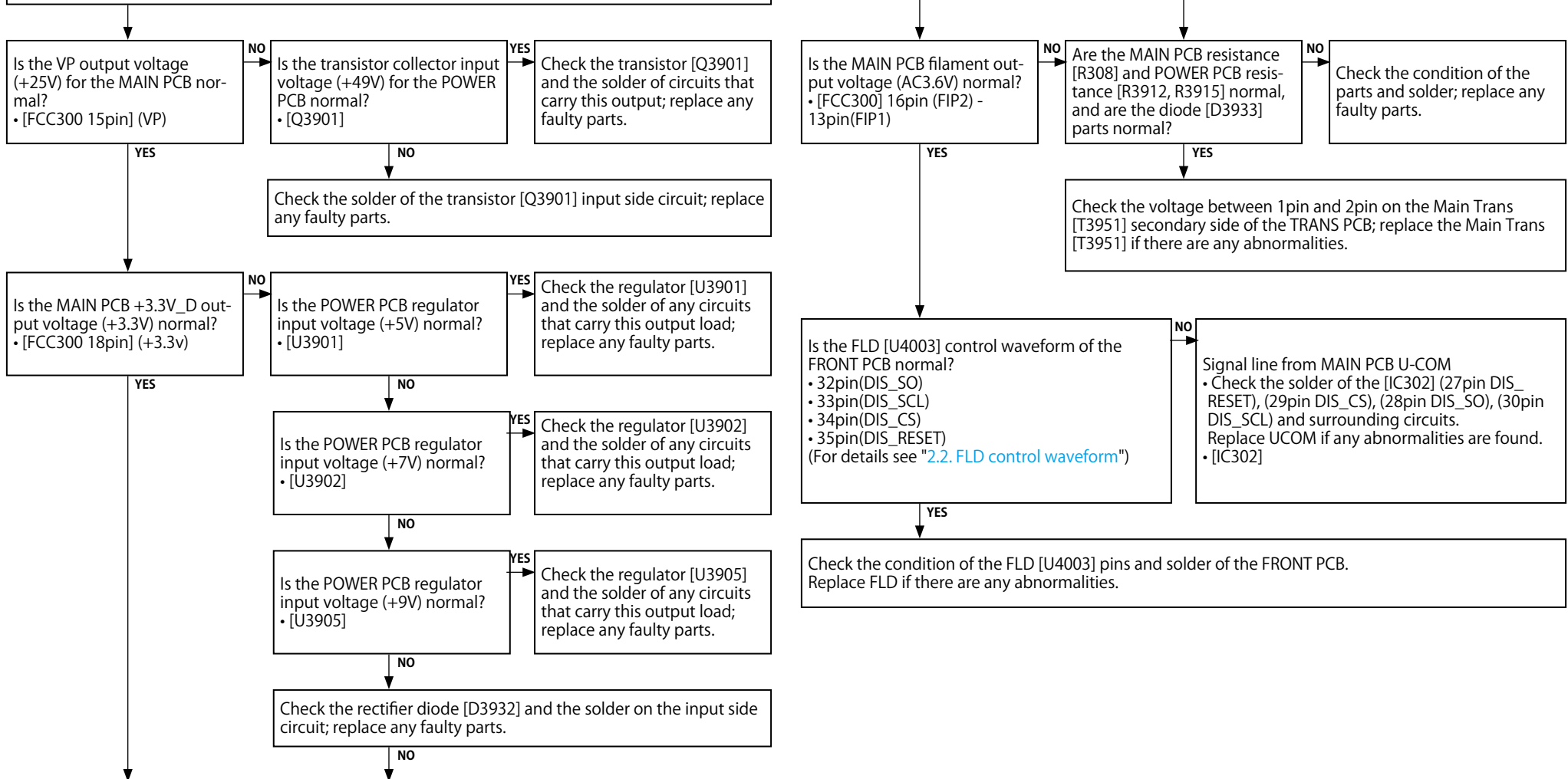
1. POWER

1.1. The unit does not power on

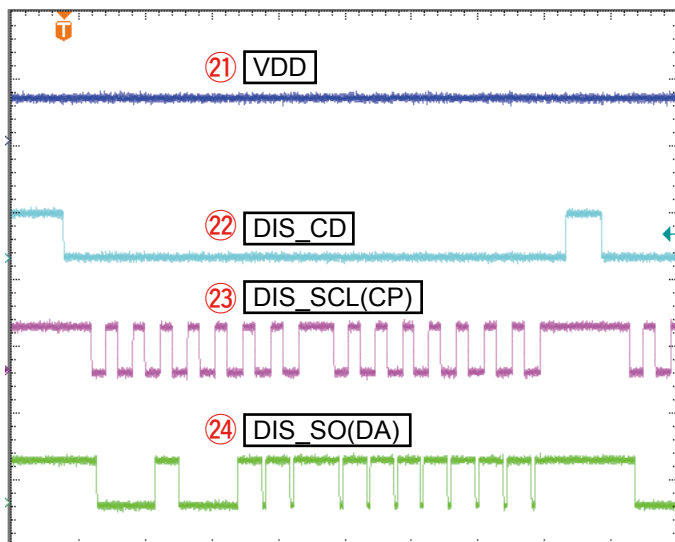


2. FLD

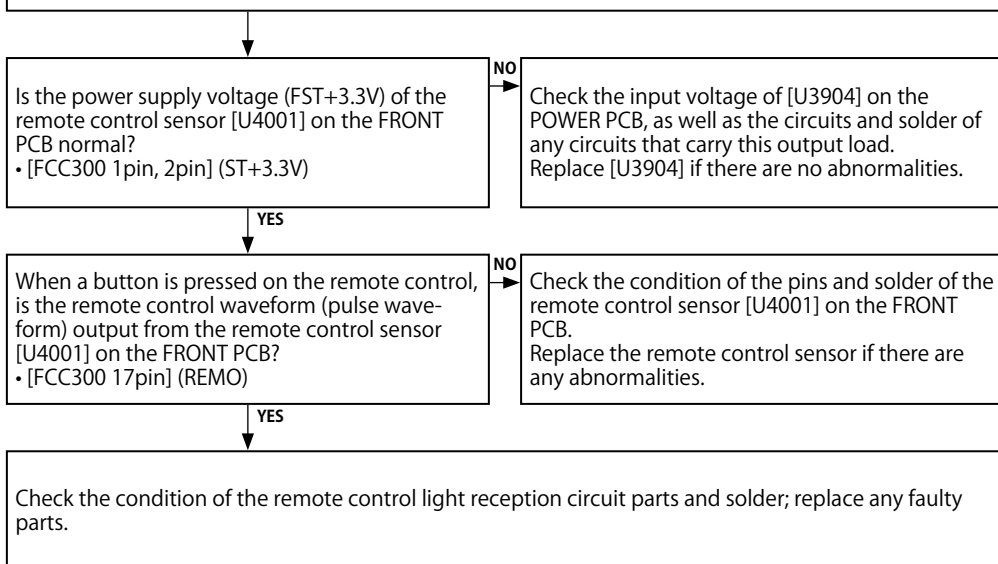
2.1. FLD is not lit



2.2. FLD control waveform

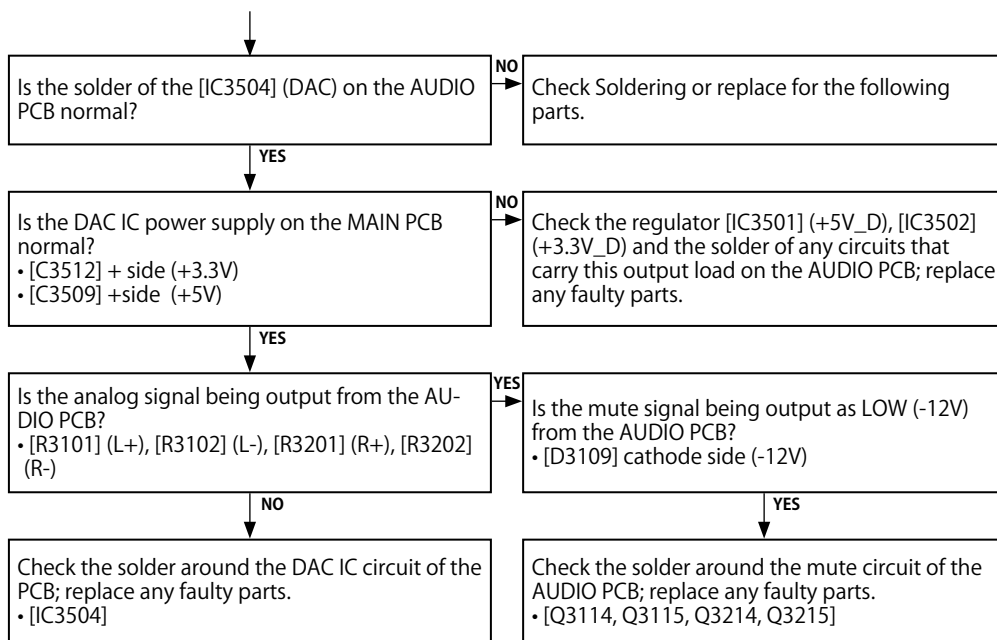
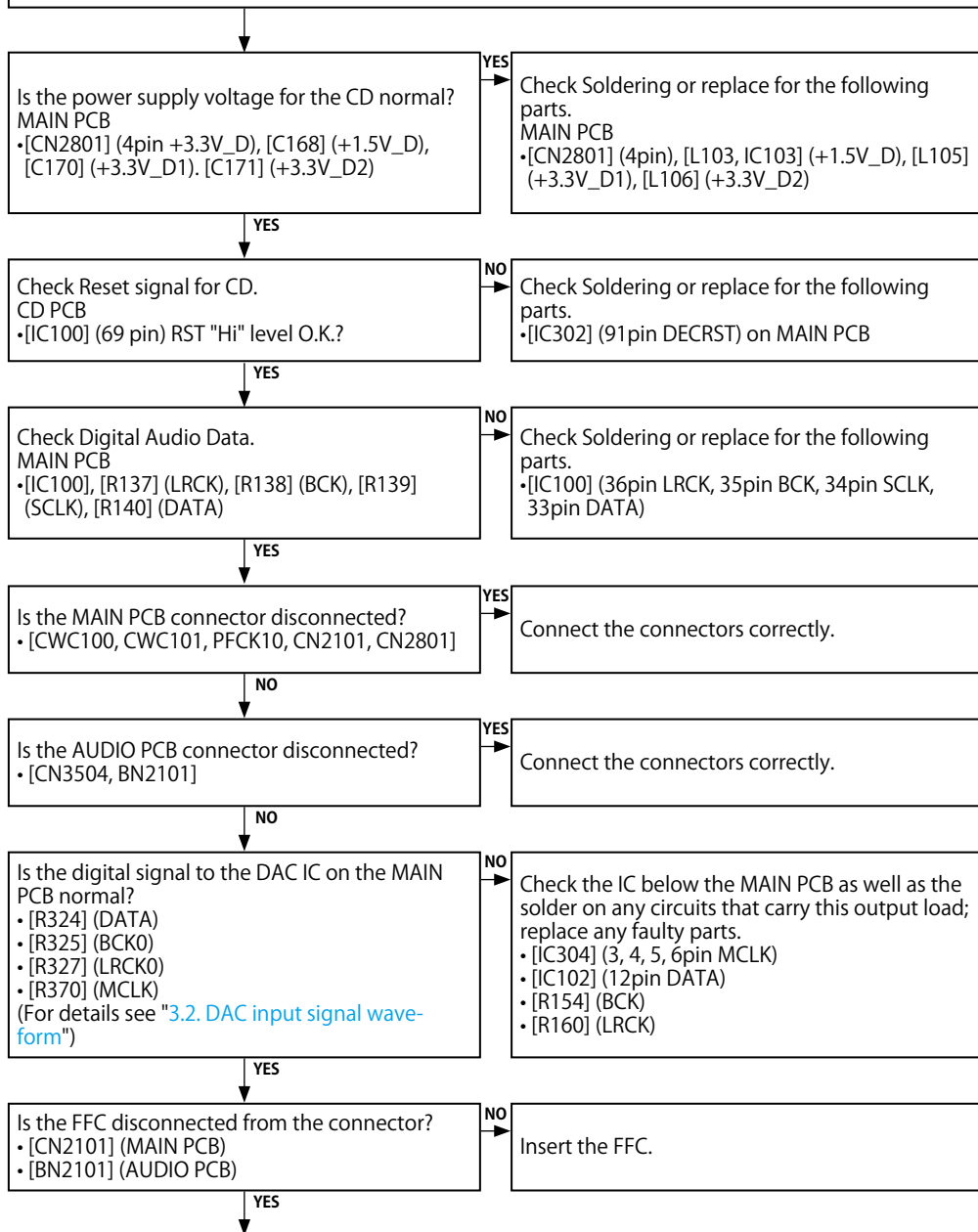


2.3. Remote control signals are not being received.

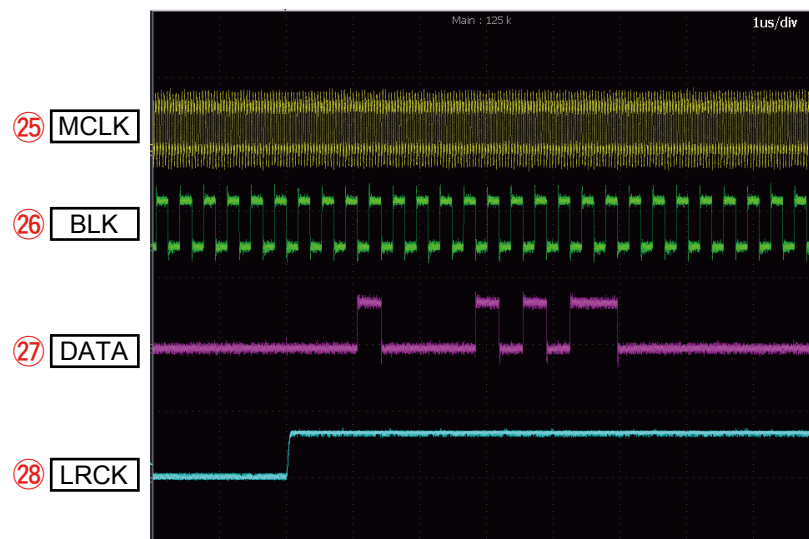


3. No audio output.

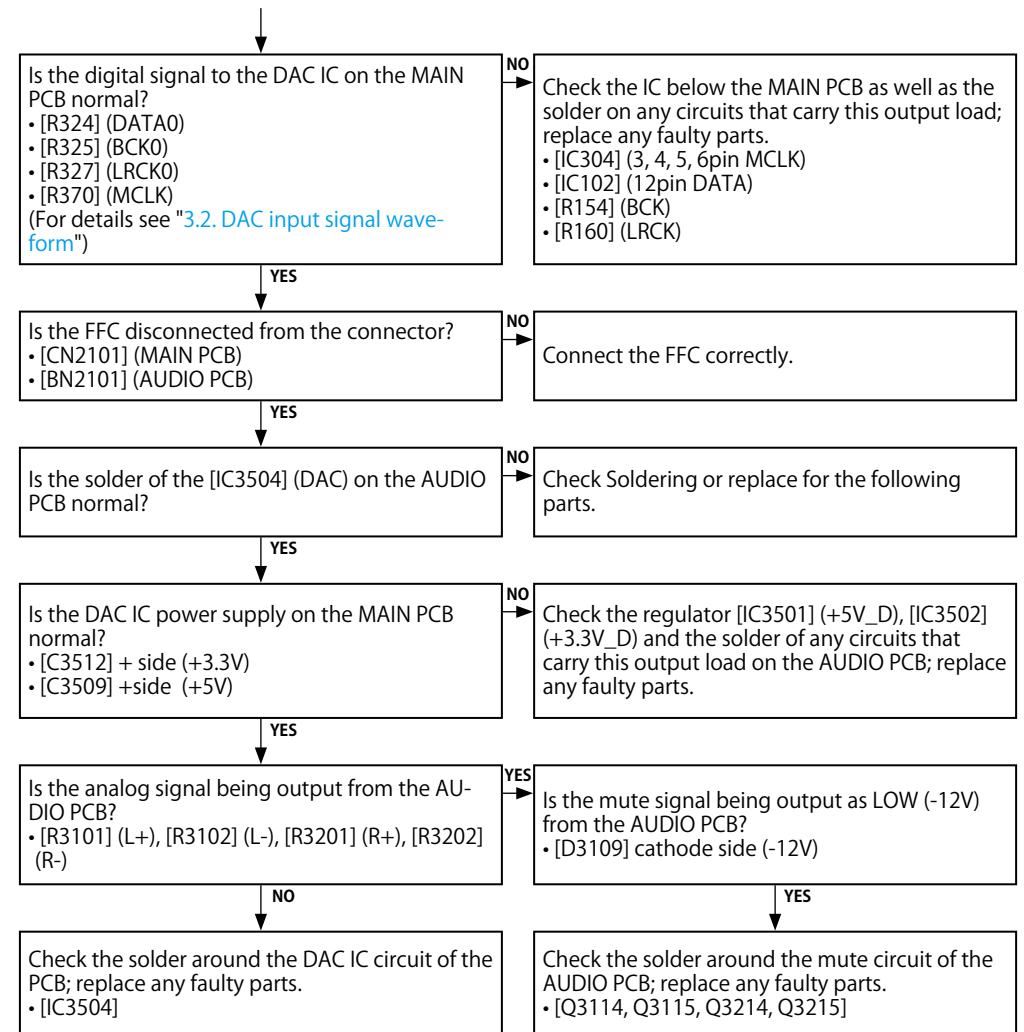
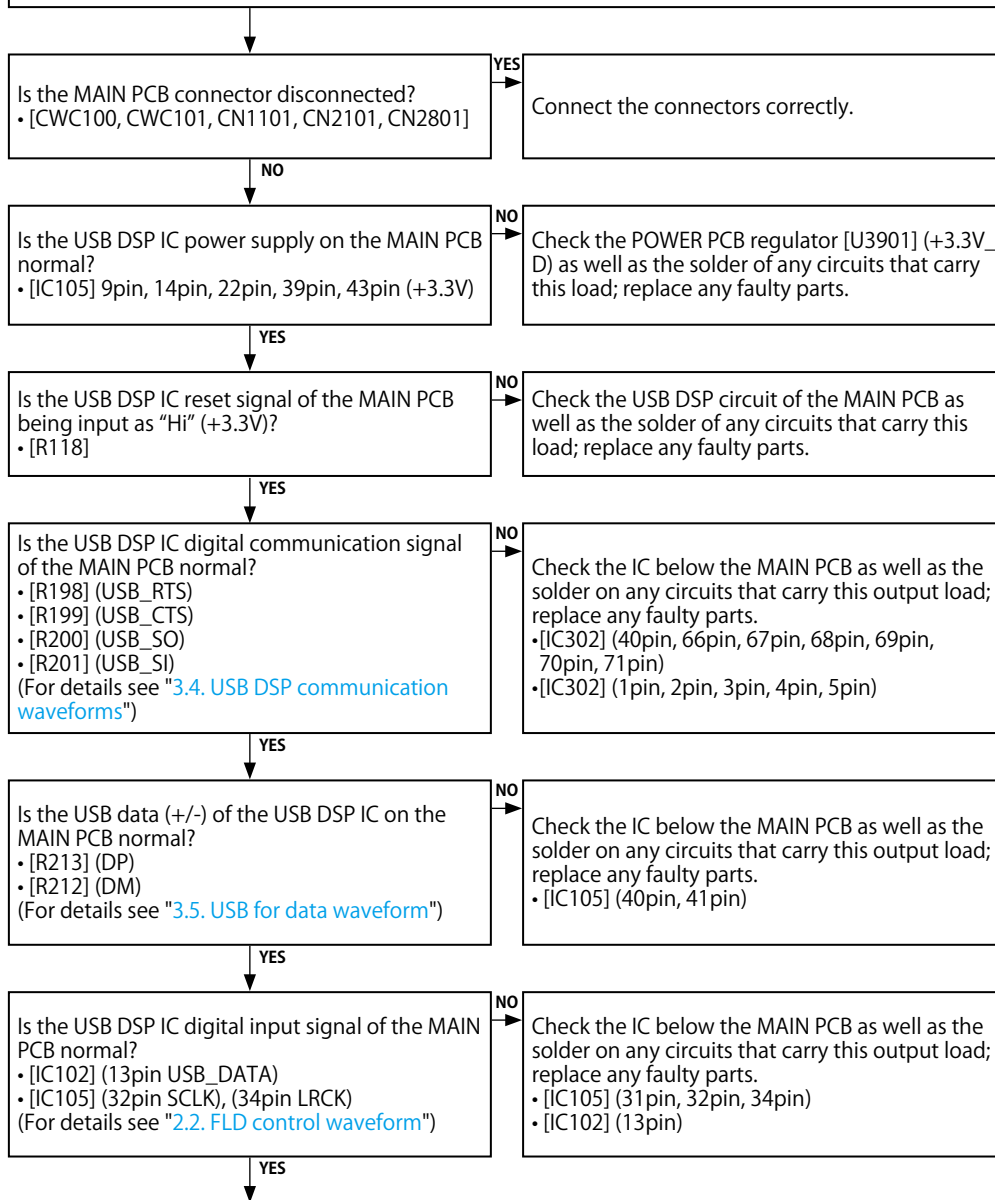
3.1. No sound is output when a CD is played back.



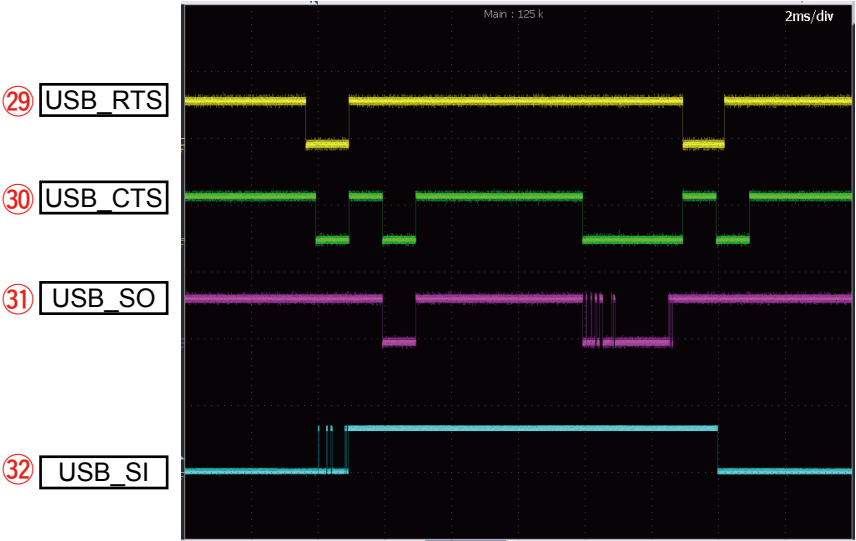
3.2. DAC input signal waveform



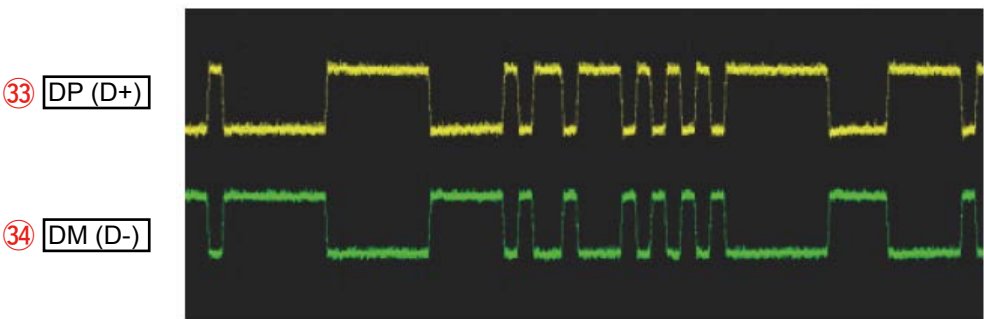
3.1. No sound is output when a USB, iPod is played back.



3.4. USB DSP communication waveforms



3.5. USB for data waveform



Caution in
servicing

Electrical

Mechanical

Repair Information

Updating

MEASURING METHOD AND WAVEFORMS

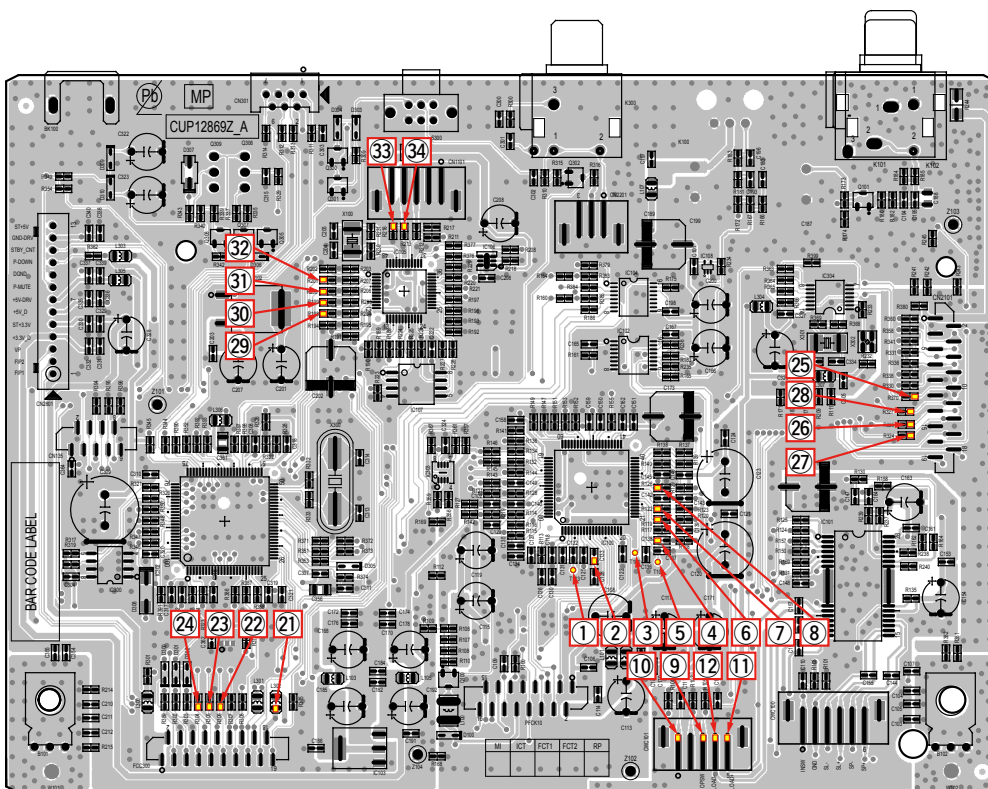
Measuring Disc : 4822 397 30184

TCD-784

(It is recommended to use extension wires between the probe and test points.)

MAIN PCB : test point

①	RFEQO	⑪	LOAD+	⑳	VDD	㉓	USB SO
②	RFO	⑫	LOAD-	㉑	DIS CD	㉔	USB SI
③	FSMONIT			㉒	DIS SCL(CP)	㉕	DP
④	FOO			㉓	DIS SO(DA)	㉖	NP
⑤	TEI			㉔	MCLK		
⑥	TRO			㉕	BLK		
⑦	FMO			㉖	DATA		
⑧	DMO			㉗	LRCK		
⑨	OP SW			㉘	USB RTS		
⑩	CL SW			㉙	USB CTS		



Caution in
servicing

Electrical

Mechanical

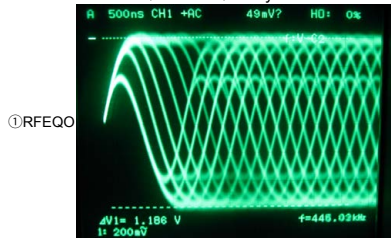
Repair Information

Updating

WAVEFORMS

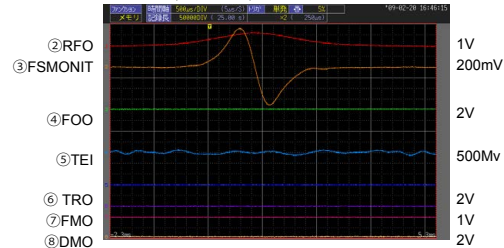
1. DISC PLAY RF WAVEFORM (EYE-PATTERN)

1.1 CD (TCD-784) Play



2. DISC DETECTION

2.1 CD (TCD-784) DISC DETECTION



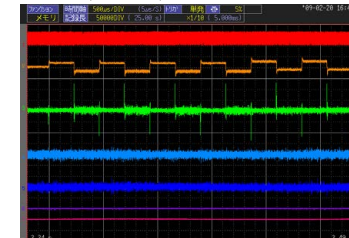
3. TOC READ

3.1 CD (TCD-784) TOC READ

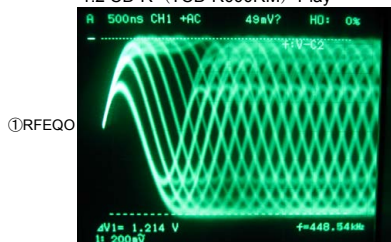


4. FOCUS ADJUSTMENT

4.1 CD (TCD-784) FOCUS ADJUSTMENT



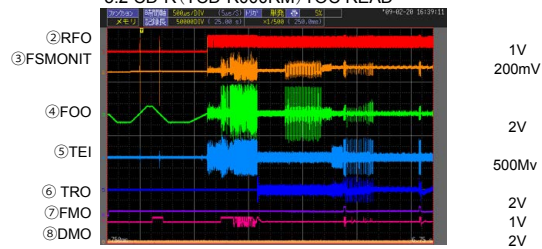
1.2 CD-R (TCD-R000RM) Play



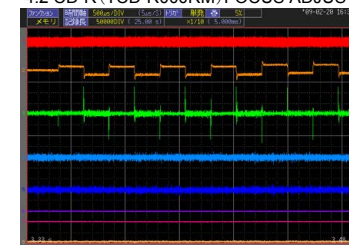
2.2 CD-R (TCD-R000RM) DISC DETECT



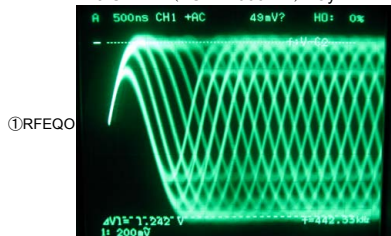
3.2 CD-R (TCD-R000RM) TOC READ



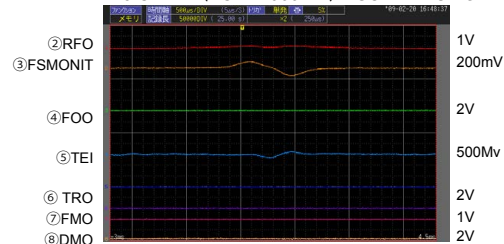
4.2 CD-R (TCD-R000RM) FOCUS ADJUSTMENT



1.3 CD-RW (TCD-W000RM) Play



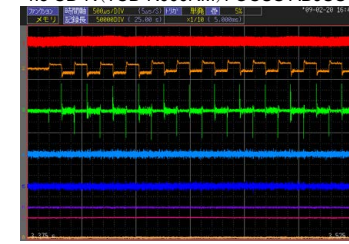
2.3 CD-RW (TCD-W000RM) DISC DETECTION



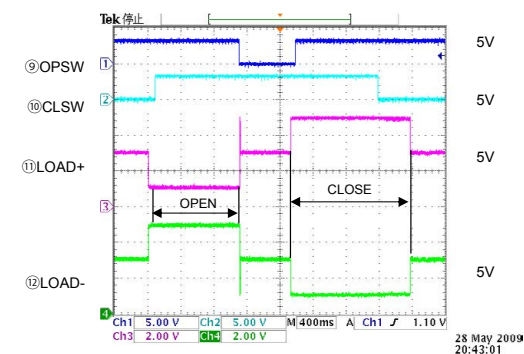
3.3 CD-RW (TCD-W000RM) TOC READ



4.3 CD-R (TCD-R000RM) FOCUS ADJUSTMENT



5. LOADER OPEN-CLOSE



1. Protection of the LD

Solder a part of the LD circuit to short-circuit. After connecting the circuit, remove the soldering form. Precautions when handling the laser CD mechanism

2. Precautions when handling the laser CD mechanism

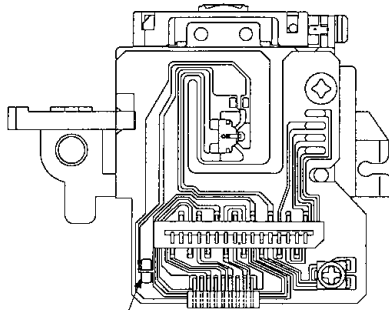
- Be careful not to expose the laser pick-up to dust.
- Do not leave the laser pick-up bare. Be sure to cover it.
- If dust adheres on the laser pick-up lens, blow it off with a blower brush.
- Do not apply shock to the laser pick-up.
- Do not watch the light of the laser pick-up.

3. Cautions on assembling and adjustment

- Be sure that the bench, jig, head of soldering iron (with ceramic) and measuring instruments are well grounded.
- Workers who handle the laser pick-up must be grounded.
- The finished mechanism (prior to anchoring in the set) should be protected against static electricity and dust. The mechanism must be stored where abnormal external force is not applied.
- When carrying the finished mechanism, hold it by the chassis body.
- Do not use or store the mechanism where corrosive gas such as H₂S, SO₂, NO₂ and Cl₂ or toxic gas may be generated, or where substances especially organosilicon, cyanide, formalin and phenolic materials exist. In particular, make sure that these substances which generate toxic gas do not exist in the set. This may cause the motor not rotating.

4. Notes on Handling the Laser Pick-Up

- Measure the ①RFEQO waveform of the MAIN PCB ASSY and check the amplitude level.
(See [MEASURING METHOD AND WAVEFORMS](#))
- If the amplitude level of the measured RFEQO waveform is between 0.4 and 1.1Vp-p, the pickup laser is OK.



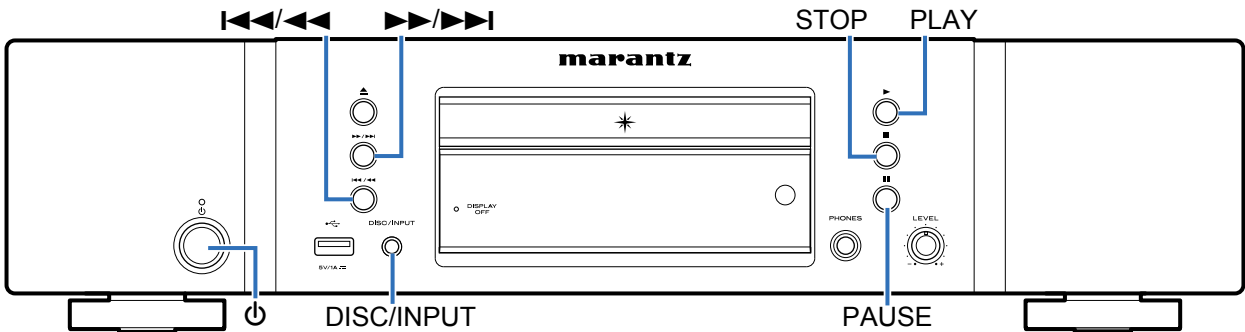
Protective soldering place for laser diode.

SPECIAL MODE

Special mode setting button

※ No. 1 - 7 : While holding down buttons "A" and "B" simultaneously, insert the AC plug into the wall outlet to turn on the power.

No.	Mode	Button A	Button B	Descriptions
1	Version Display Mode	DISC/INPUT	PLAY	The firmware version is shown on the display. Errors that have occurred are displayed. (See 1. Version Display Mode)
2	FLD check mode	DISC/INPUT	STOP	All segments on the FL display flash in a 2 second cycle. (See 2. Display check mode)
3	Initialization (cold start)	DISC/INPUT	PAUSE	Initialize the CD player. (See 3. Initialization (cold start))
4	CD test mode	⏮/⏪	PLAY	Initializing CD Player. (See 4. CD test mode)
5	CD heat Run mode	⏮/⏪	STOP	Test of CD mech. (See 5. CD Heat run mode)
6	Accumulated laser on time display mode	⏮/⏪	PAUSE	Indicates the accumulated laser on time. If the CD mechanism has been replaced, reset the laser ON accumulated time using this mode. (See 6. Accumulated laser on time display mode)
7	Timer check mode	⏭/⏩	PLAY	Not for service.



1. Version Display Mode

1.1. Actions

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

1.2. Starting up

While holding down buttons the "DISC/INPUT" and "▶" buttons simultaneously, insert the AC plug to turn the power on.

Then press the "◀◀/▶▶" or "▶▶/▶▶" button to display the information in section "1.3." on the display.

1.3. Display Order

Version of System μ -com $\rightarrow$ Version of USB μ -com $\rightarrow$ Serial number

Turn the power back on to cancel this mode.

Main μ -com :



"_Ver_#####v**"

#####:Main μ -com version Display

**:region

USB μ -com :



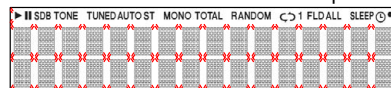
"####_##_##_##_-"

####_##_##_#:USB μ -com version Display

2. Display check mode

While holding down buttons the "DISC/INPUT" and "■" buttons simultaneously, insert the AC plug to turn the power on.

This mode is cancelled when the power is turned off.



All segments on the FL display flash in a 2 second cycle (1 second on, 1 second off).

3. Initialization (cold start)

While holding down buttons the "DISC/INPUT" and "■" buttons simultaneously, insert the AC plug to turn the power on.

Returns to normal operation after "INITIALIZING" is displayed.



Initialized settings

DIMMER :	100%
DISC/USB :	Disc
H/P AMP GAIN :	LOW
Digital Out :	On
Timer Play :	Off
Playback Media :	Disc
Resume Play :	On
Quick Replay :	10 seconds
Auto Standby :	On (N), Off (F, U, K)
iPod Mode :	From iPod

* "Laser on time" is not deleted.

* "Initial value of laser current" is not deleted.

4. CD test mode

While holding down buttons the "◀◀/▶▶" and "▶" buttons simultaneously, insert the AC plug to turn the power on.

This mode is cancelled when the power is turned off.



* : flashes

CD test mode

No.	Mode	Button / Operation
1	Disc mounting	
2	Servo check	-
	LD ON	
	FOCUS ON	
	CLV ON	
	TRACKING ON	
	READ SUB CODE	
	BER display	
3	Pickup movement	◀◀/▶▶ or ▶▶/▶▶ (The pickup keeps moving while the button is pressed.)
4	STOP Servo	
5	All servo on	+
6	Display adjustment values	 (Press after all servos are turned on.)
	FOCUS BALANCE	▶▶/▶▶
	FOCUS GAIN	▶▶/▶▶
	TRACKING BALANCE	▶▶/▶▶
	TRACKING GAIN	▶▶/▶▶
	FOCUS OFFSET	▶▶/▶▶
	TRACKING OFFSET	▶▶/▶▶
7	RFRP	▶▶/▶▶
	Displaying the laser current	 (Press and hold for more than 1 second)

4.1. Disc loading mode

- Press the "▲" button to open the tray.
- Place the disc in the tray and press the "▲" button again to close the tray and start disc chucking.
- Return the slide to the default setting position (10mm from inner circumference) and stop it in this position.
- Remains in CD test mode.

4.2. Servo check

- Press "▶" button. Execute the following steps.

(1) LD ON(while servo is stopped)



(2) FOCUS ON (disc rotating, tracking off)

If there is no disc, the unit retries the operation and then stops.



(3) CLV ON



(4) TRACKING ON



(5) READ SUB CODE (playback sound output)

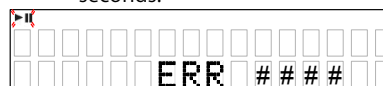


* : flashes

* @@ : T.No

* XX:XX : Elapsed time

* BER: If button "▶" is pressed while SUB CODE is displayed, BER (Block Error Rate) is displayed for 2 seconds.



4.3. Pickup movement

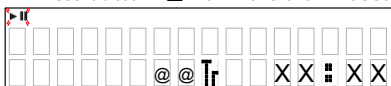
- If button "◀◀/▶▶" or "▶▶/▶▶" is pressed in the stopped state, the pickup moves in the REV (inner circumference) or FWD (outer circumference) direction.
- You can also stop the pickup by pressing the "◀◀/▶▶" button. After the inner switch is set to on, the pickup stops.
- Release the button to stop the pickup.

4.4. STOP Servo

- Press the "■" button to stop the playback operation and servo.
- After stopping, the auto adjustment values will be read.

4.5. All servo on

- If button "■" or "▲" is pressed, automatic adjustment is performed, after which the mode switches to playback operation. (Playback sound is output)
- Press button "■" first.
- Press button "■" for more than 1 second to measure the laser current.



* ▶▶ : flashes

4.6. Adjustment value display

- Press button "■" after turning all servos on in order to display the adjustment value.
- When "▶▶/▶▶" button is pressed, the adjustment values are displayed in the following order.

(1) FOCUS BALANCE



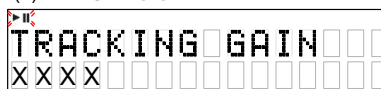
(2) FOCUS GAIN



(3) TRACKING BALANCE



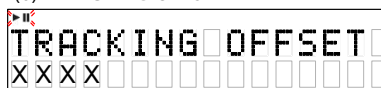
(4) TRACKING GAIN



(5) FOCUS OFFSET



(6) TRACKING OFFSET



(7) RFRP



* XXXX : adjustment values

4.7. Displaying the laser current

- Press and hold the "■" button for at least 1 second while stopped to turn the laser ON and measure and display the laser current.
- The initial current value is measured after the laser has been on for 3 seconds.
- The current value is updated every 3 seconds.
- "■" button to return to CD TEST MODE.
- Saved data is not deleted when the set is initialized (cold start).



* XX : Stored data (EEPROM)

* YY : Current value

How to overwrite saved data

- Press and hold button "▶" for more than 5 seconds while the laser current is being displayed to save the current value to EEPROM (overwrites the saved data).
- When writing is complete, "4.7. Displaying the laser current" is displayed again.
- Rewriting is performed upon shipment from the factory and when the mechanism is replaced.



5. CD Heat run mode

- Insert a disc and press the "◀◀/▶▶" and "■" buttons together while inserting the AC plug and turning on the power.
- If an error occurs, an error display appears and the operation stops immediately.
The number of operations is saved at this time.
See "1.1. Actions" for details on the error.
- Pressing the "■" button clears the heat run count.
Press button "▲" to cancel this mode and open the tray.

Details on CD heat run mode

No.	Mode	Button / Operation
1	Normal heat run mode	▶
2	Chucking	■
3	Error display	◀◀/▶▶ or ▶▶/▶▶ (While button is pressed)

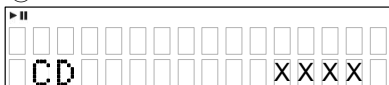
5.1. Normal heat run mode

- Press the "▶" button after the CD heat run mode starts and TOC reading is completed.
The heat run repetition count is 0 at this time.
- ① Play the disc from the first track to the last track.
- ② All tracks are played if the disc being used contains 20 tracks or less. If the disc contains 21 or more tracks, the unit plays track 1 and then skips to the last track.
- ③ When playback of the disc is finished, move the pickup to the inner circumference and open the tray.
- ④ When the loader OPEN status is detected, close the tray again and start playing the disc from the first track after TOC has been loaded.
- ⑤ An increment is added to the heat run count when the tray is opened.
- ⑥ Repeat steps ① ~ ⑤.

Displaying playback ①, ②



③



- * XXXX: heat run repetition count
The display is the same as the normal playback display, except that "▶" is lit.

5.2. Chucking mode

Press the "■" button while stopped after CD heat run mode has started and TOC reading has been completed.

The stages below are repeated.

TOC reading

Search the first track on the disc

Tray Close

- 1 is added to the heat run count after the tray is opened.

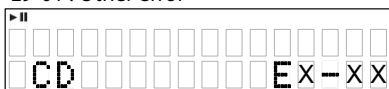


* XXXX: heat run repetition count

The display is the same as the normal playback display, except that "▶" is lit.

5.3. Error display

E1-00 : Disc cannot be detected.
 E1-01 : Tracking offset adjustment not possible.
 E1-02 : Focus offset adjustment not possible.
 E2-00 : The focus servo was disabled during playback.
 E2-01 : The focus servo was disabled during searching.
 E2-03 : The focus servo was disabled during TOC reading.
 E2-06 : The focus servo was disabled during manual search.
 E2-10 : Subcode became unreadable during playback.
 E2-11 : Subcode became unreadable during searching.
 E2-12 : Subcode became unreadable during TOC reading.
 E2-14 : Subcode cannot be read while pausing.
 E2-15 : Subcode cannot be read during manual search.
 E3-00 : TOC could not be read within the specified time.
 E3-01 : PVD/SVD analysis was not completed within the specified time.
 E4-04 : Search time out
 E4-05 : Error in communications with CD decoder
 E5-00 : Inner switch is not on.
 E6-00 : Inner switch is not off.
 E9-00 : CD u-com error
 E9-01 : Other error



* X-XX : Error cord

Heat run count at the time the error occurred

- Press the "▶▶/▶▶" button while the error is displayed.
- The heat run count is displayed for 5 seconds before returning to the error code display.



* XXXX: heat run repetition count

The track number and elapsed playback time where the error occurred is displayed.

- Press the "◀◀/◀◀" button while the error code is displayed.
- The track number and elapsed time of the track at the time the error occurred are displayed for 5 seconds before returning to the error code display.



- * " _ C D _ _ _ x x Tr _ _ m : s s "
- * xx : Track Number of error occurred.
- * mm:ss: elapsed time of track at the time the error occurred

6. Accumulated laser on time display mode

While holding down buttons the "◀◀/◀◀" and "⏏" buttons simultaneously, insert the AC plug to turn the power on.

- One count corresponds to 10 minutes. (Values under 10 minutes are discarded)
- The retained data is not updated after 10922 hours. (The display will continue to read 10922.)



Resetting the count value

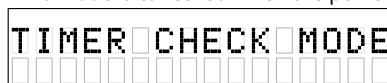
- With the accumulated laser-on time displayed, press and hold the "▶" button for over 5 second to reset the count value (overwrite the stored data).
- The display returns to the display in 6. ("00000 hour" at top) after initialization is completed.
- The Count value is reset upon shipment from the factory and when the mechanism is replaced.



7. Timer check mode

Not for service.

This mode is cancelled when the power is turned off.



UPDATING

PROCEDURE AFTER REPLACING THE U-COM, ETC.

FIRMWARE UPDATE PROCEDURE

1. Items necessary for update
2. Updating via System u-com (IC302)
3. Updating via USB-A (IC107)

PROCEDURE AFTER REPLACING THE U-COM, ETC.

The procedure after replacing the u-COM (microprocessor), flash ROM, etc. is as follows.

PCB Name	Ref. No.	Description	Procedure after Re- placement	Remark
MAIN	IC302	MB9AF344NAPMC	C	SOFTWARE : System
MAIN	IC107	I.C , SERIAL FLASH(8M)	B	SOFTWARE : USB-A

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.

See "[FIRMWARE UPDATE PROCEDURE](#)" for information on writing the software.

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 rewrite with the latest software for your service region.

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
System u-com Update	RS-232C cable	9P (Male), Straight	X	-	-
	8U-210100S WRITING KIT	OLD JIG : SPK-581 WRITING KIT	-	8U- 210100S	-
	7P FFC	Straight	-	606050028012P	-
	FLASH MCU Programmer	-	-	-	pcwfm3-v01107.zip
Via USB	USB Stick (USB 2.0 : Min 1GB)	Formatting FAT 32	X	-	USB_CD6006_XXXX.zip

Caution in
servicing

Electrical

Mechanical

Repair Information

Updating

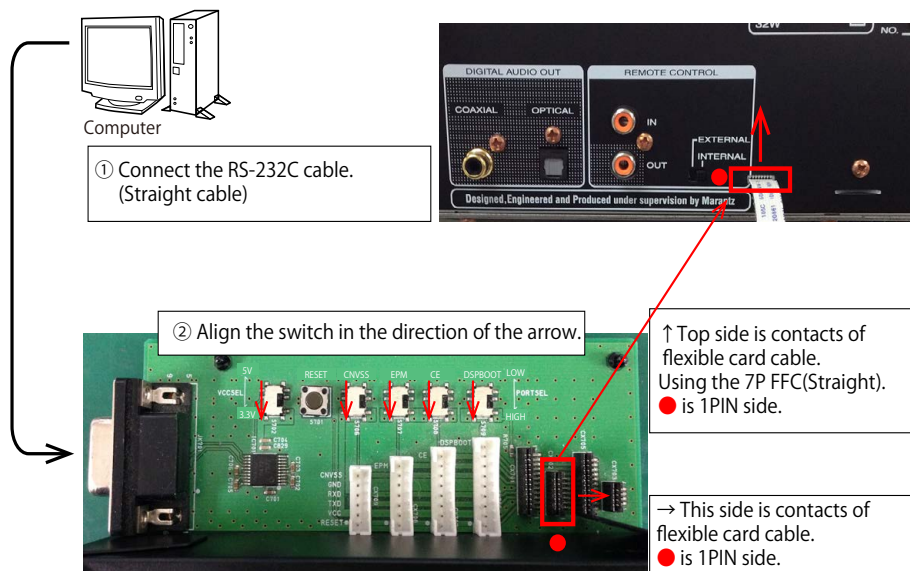
2. Updating via System u-com (IC302)

1. Items to Be Prepared

- (1) Obtain "**pcwfm3-v01107.zip**" from SDI.
- (2) Personal Computer (Be installed "**FUJITSU FLASH MCU Programmer for FM3/FM4**").
- (3) RS-232C cable (9P (Male), Straight).
- (4) 8U-210100S : WRITING KIT (OLD JIG : SPK-581 WRITING KIT)
606050028012P : 7P FFC (Straight)

2. Connecting the WRITING KIT to This Unit

- (1) Check that the power of this unit is off.
- (2) Connect the RS-232C cable to the computer and WRITING KIT.
- (3) Connect the update terminal of this unit to the WRITING KIT.



3. Installing the Software

Install the writing software "**FUJITSU FLASH MCU Programmer for FM3/FM4**" on your computer.

- (1) Download "**pcwfm3-v01107.zip**" from SDI.
- (2) Double-click "Setup.exe".



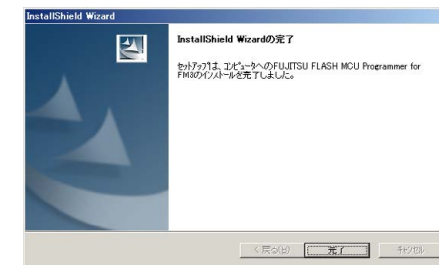
- (3) Click "Next >".



- (4) Click "Next >".



- (5) Click "Finish".

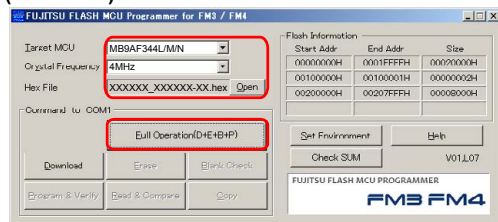


4. Run the FLASH MCU Programmer

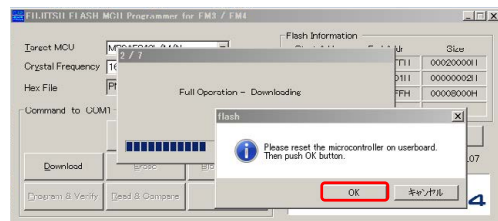
- (1) Press the power button to turn on the power.
- (2) Execute "**FUJITSU FLASH MCU Programmer for FM3/FM4**" after installing it on your computer.
Double-click **FLASH MCU Programmer** to launch **FLASH MCU Programmer Start**.



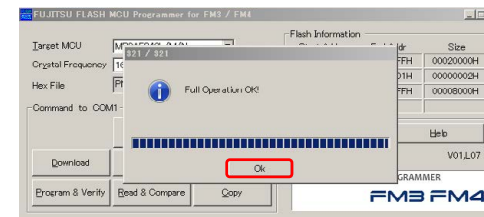
- (3) Target MCU : Select "**MB9AF344L/M/N**"
Crystal Frequency : Select "**4MHz**"
Hex File : Select the file to be "**Update**"(CD6006_XXXXXX-XX.hex)
Click "**Full Operation(D+E+B+P)**"



- (4) Click "**OK**".



- (5) The following display appears when the firmware update is complete.
Click "**OK**".



- (6) Initialize this unit.
Remove the AC plug.
While holding down buttons the "**DISC/INPUT**" and "**II**" buttons simultaneously, insert the AC plug to turn the power on.
- (7) After updating the firmware, check the version.
See "[1. Version Display Mode](#)"

3. Updating via USB-A (IC107)

The latest firmware can be downloaded to a USB memory for updates.

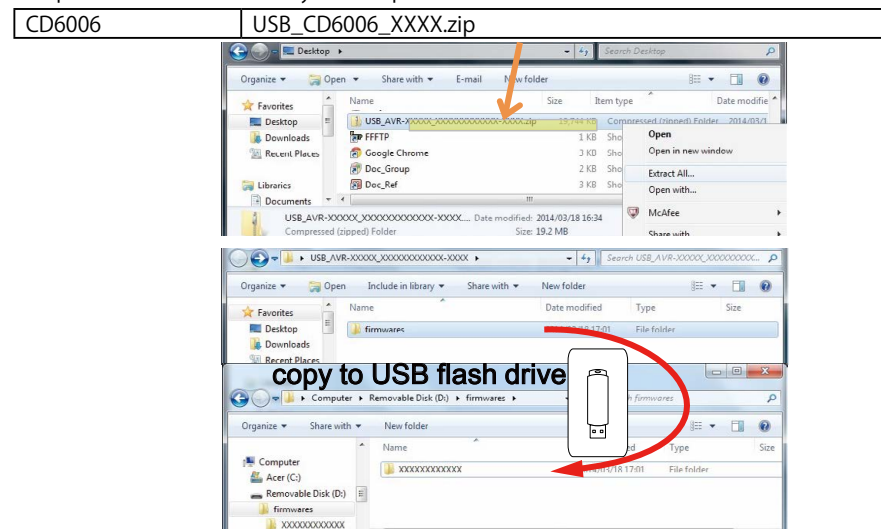
3.1. Connecting to the USB Memory

(1) Preparation

- Use a memory that supports USB2.0.
- USB format : Prepare a USB memory formatted in FAT16 or FAT32.
- Do not run the USB memory 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 unit.
- If a USB memory device cannot be updated, replace it with a different USB memory device and perform the update again.

3.2. Unzipping the Downloaded File

Unzip the downloaded file on your computer.

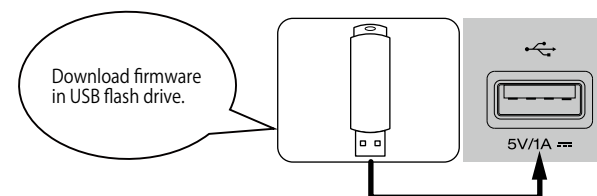


The "**DCD1650U.BIN**" file is created upon unzipping the file.

Copy that file to USB flash drive.

The "**DCD1650U.BIN**" file must be in the root directly of the USB flash drive (memory).

3.3. Insert the USB memory into the USB port.



3.4. Start the update.

While holding down buttons the "▶▶/▶▶!" and "■" buttons simultaneously, insert the AC plug to turn the power on.

3.5. Display during USB update



(1) Indication during the version up



x : Retry count, YYY : Progress rate (0-100%)

(2) Completion display



(5) Remove the AC plug after the update is completed.

Remove the USB memory device.

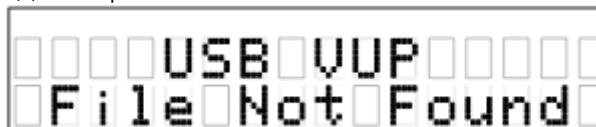
It takes about 10 seconds to complete the writing procedure.

(6) After updating the firmware, check the version.

See "1. Version Display Mode"

3.6. Error display

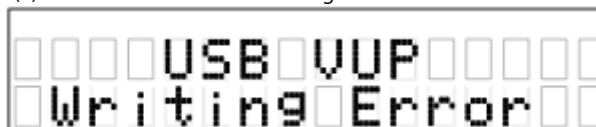
(1) If the update file name is incorrect



(2) If the update file configuration is incorrect



(3) If an error occurs when writing to the flash ROM



(4) USB Update fails



---Cautions on Firmware Update---

- Never remove the USB memory before the update is finished.
- Do not turn off the power until updating is completed.
- It takes around 10 seconds to complete the update.

www.marantz.com

You can find your nearest authorized distributor or dealer on our website.

marantz[®] is a registered trademark.

FR PW AD 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.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D3101	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3102	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3103	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3104	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3105	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3106	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3107	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3108	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3109	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3111	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3112	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3201	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3202	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3203	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3204	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3205	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3206	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3207	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3208	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3601	90M-HI200020R	INFRARED L.E.D	U	BVDSIR34ST3F	1	
D3602	00D9430182609	DIODE , SWITCHING	U	CVD1SS133MT	1	
D3901	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3902	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3904	nsp	EOL item WIRE, COPPER(D0.6)		C3A206	0.02	
D3905	90M-HD302350R	DIODE , ZENER ,1/2W, 27V		CVDZJ27BT	1	
D3906	90M-HD302480R	DIODE , ZENER ,1/2W, 15V		CVDZJ15BT	1	
D3911	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3912	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3913	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3916	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3917	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3918	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3919	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3929	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3930	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3931	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3932-1	nsp	HEAT SINK ASS'Y(CVDD5SB60+CMY9A138)		CVDD5SB60BZA	1	
D3932-2	nsp	SCREW		CTB3+8JR	1	
D3932-3	943203500550S	DIODE , BRIDGE(600V/6A)		CVDD5SB60	1	
D3932-4	nsp	COMPOUND , SILICONE		K8AYG6260	0.2	
D3932-5	nsp	HEAT SINK		VMY9A138	1	*
D3933	00D9600095607	DIODE , ZENER ,1/2W, 5.6V		CVDZJ5.6BT	1	
D3934	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3935	919202500600D	DIODE , ZENER ,1/2W, 11V		CVDZJ11BT	1	
D3936	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3937	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3938	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3939	00D9430209400	DIODE , RECT		CVD1N4003SRT	1	
D3953	00MHD20055100	DIODE , SCHOTTKY (100V/1A)		CVD11EQS10GT	1	
D3954	00MHD20055100	DIODE , SCHOTTKY (100V/1A)		CVD11EQS10GT	1	
D3955	00MHD20055100	DIODE , SCHOTTKY (100V/1A)		CVD11EQS10GT	1	
D3956	00MHD20055100	DIODE , SCHOTTKY (100V/1A)		CVD11EQS10GT	1	
D3957	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D3958	90M-HD302450R	DIODE , ZENER ,1/2W, 13V		CVDZJ13BT	1	
D3959	90M-HD302450R	DIODE , ZENER ,1/2W, 13V		CVDZJ13BT	1	
D3960	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1	
D4001	90M-HI101040R	L.E.D , RED		HVD342VCTB7T089	1	
D4101	943176100160M	L.E.D , 2COLOR(ORANGE,RED)		CDVGY5YU25Y2W	1	
IC3501	00MHC3890509F	I.C		HVINJM7805FA	1	
IC3502	943239010400S	I.C, REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1	
IC3504	90M-HC109330R	AUDIO DAC (TSSOP-28 PACKAGE)		HVICS4398CZ	1	
IC4301	90M-HC109460R	I.C , OP AMP		HVINJM2114M	1	
Q3101	943222500200D	F.E.T , 2SK2145 (N-CH, 2-3L1C, LOW NOISE, TOSHIBA)		CVT2SK2145	1	
Q3102	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3104	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3105	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3106	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3107	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3108	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3109	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3110	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3111	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3112	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3113	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3114	00D9430072502	T.R , CHIP , SOT-23		HVTKTC2875B	1	
Q3115	00D9430072502	T.R , CHIP , SOT-23		HVTKTC2875B	1	
Q3116	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1	
Q3117	00D2690191903	T.R , CHIP , SOT-23		HVTKRA104S	1	
Q3118	943219500200M	T.R , CHIP , SOT-23		HVTKRC104S	1	
Q3201	943222500200D	F.E.T , 2SK2145 (N-CH, 2-3L1C, LOW NOISE, TOSHIBA)		CVT2SK2145	1	
Q3202	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3204	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3205	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3206	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3207	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3208	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3209	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3210	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3211	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3212	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3213	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3214	00D9430072502	T.R , CHIP , SOT-23		HVTKTC2875B	1	
Q3215	00D9430072502	T.R , CHIP , SOT-23		HVTKTC2875B	1	
Q3301	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3302	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3303	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3304	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3401	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3402	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3403	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1	
Q3404	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1	
Q3601	943215500140D	T.R,RT1P144C(10K-47K)	U	CVTRT1P144C	1	
Q3901	943219006820S	T.R		CVTKTC1027YT	1	
Q3902	90M-HX800090R	T.R , CHIP , SOT-23		HVTKRC111S	1	
Q3903	90M-HX800090R	T.R , CHIP , SOT-23		HVTKRC111S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
Q3904	00D9430154404	T.R	HVTKTC3198YT	1		
Q3905	00D9430154404	T.R	HVTKTC3198YT	1		
Q3951-1	nsp	HEAT SINK ASS'Y(CVT2SD2081+CMY1A338)	CVT2SD2081BSA	1		
Q3951-2	nsp	HEAT SINK 25MM	CMY1A338	1		
Q3951-3	nsp	SCREW	CTB3+8FFB	1		
Q3951-4	943219500190M	T.R, 2SD2081, NPN, TO220F, SANKEN	CVT2SD2081	1		
Q3951-5	nsp	COMPOUND , SILICONE	K8AYG6260	0.2		
Q3952-1	nsp	HEAT SINK ASS'Y(CVT2SB1259+CMY1A338)	CVT2SB1259BSA	1		
Q3952-2	nsp	HEAT SINK 25MM	CMY1A338	1		
Q3952-3	943219500170M	T.R, 2SB1259, PNP, TO220F, SANKEN	CVT2SB1259	1		
Q3952-4	nsp	COMPOUND , SILICONE	K8AYG6260	0.2		
Q4001	00D9630121606	T.R , CHIP , SOT-23	HVTKRC107S	1		
Q4002	00D2690184907	T.R , CHIP , SOT-23	HVTKRA102S	1		
Q4101	00D2690184907	T.R , CHIP , SOT-23	HVTKRA102S	1		
Q4102	00D2690184907	T.R , CHIP , SOT-23	HVTKRA102S	1		
Q4301	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	1		
Q4302	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
Q4303	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
Q4304	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	1		
Q4305	00D9430072502	T.R , CHIP , SOT-23	HVTKTC2875B	1		
Q4306	00D9430072502	T.R , CHIP , SOT-23	HVTKTC2875B	1		
Q4307	00D2690184907	T.R , CHIP , SOT-23	HVTKRA102S	1		
Q4308	00D2690192902	T.R , CHIP , SOT-23	HVTKRC102S	1		
Q4309	00D9430072502	T.R , CHIP , SOT-23	HVTKTC2875B	1		
Q4310	00D9430072502	T.R , CHIP , SOT-23	HVTKTC2875B	1		
Q4401	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	1		
Q4402	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
Q4403	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
Q4404	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	1		
Q4405	00D9430072502	T.R , CHIP , SOT-23	HVTKTC2875B	1		
Q4406	00D9430072502	T.R , CHIP , SOT-23	HVTKTC2875B	1		
Q4407	00D2690184907	T.R , CHIP , SOT-23	HVTKRA102S	1		
Q4408	00D2690192902	T.R , CHIP , SOT-23	HVTKRC102S	1		
Q4409	00D9430072502	T.R , CHIP , SOT-23	HVTKTC2875B	1		
Q4410	00D9430072502	T.R , CHIP , SOT-23	HVTKTC2875B	1		
U3901	943239010400S	I.C. REGULATOR(3.3V/TO-252)	CVINJM2845DL133	1		
U3902+3905-1	nsp	HEAT SINK ASS'Y	CMYCD6005	1		
U3902+3905-2	nsp	HEAT SINK, TR	CMY4A300	1		
U3902+3905-3	nsp	COMPOUND , SILICONE	K8AYG6260	0.4		
U3902	943219500150M	I.C. REGULATOR 5PIN,5V, 1.5A	CVIBA00JC5WT	1		
U3905	943219500150M	I.C. REGULATOR 5PIN,5V, 1.5A	CVIBA00JC5WT	1		
U3903-1	nsp	HEAT SINK ASS'Y(HVINJM7805FA+CMY1A338)	VVINJM7805FABSA	1	*	
U3903-2	nsp	HEAT SINK 25MM	CMY1A338	1		
U3903-3	nsp	SCREW	CTB3+8FFB	1		
U3903-4	00MHC3890509F	I.C	HVINJM7805FA	1		
U3903-5	nsp	COMPOUND , SILICONE	K8AYG6260	0.2		
U3904	943239010400S	I.C. REGULATOR(3.3V/TO-252)	CVINJM2845DL133	1		
U3906	943219500140M	I.C. REGULATOR(5.0V/TO-252)	CVINJM2845DL1-05	1		
U4001	262010007707S	REMOTE SENSOR , R94EV1A	CRVR94EV1A	1		
U4003	943172100160S	V.F.D (FUTABA, 16ST103GINK)	CFL16ST103GINK	1		
RESISTOR GROUP						
R3101	nsp	RES, CARBON(1/5W,1Kohm,J)	CRD20TJ102T	1		
R3102	nsp	RES, CARBON(1/5W,1Kohm,J)	CRD20TJ102T	1		
R3104	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
R3105	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
R3107	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
R3108	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
R3109	nsp	RES, CARBON(1/5W,4.7Kohm,J)	CRD20TJ472T	1		
R3110	nsp	RES, CARBON(1/5W,4.7Kohm,J)	CRD20TJ472T	1		
R3111	nsp	RES, CARBON(1/5W,120ohm,J)	CRD20TJ121T	1		
R3112	nsp	RES, CARBON(1/5W,68ohm,J)	CRD20TJ680T	1		
R3113	nsp	RES, CARBON(1/5W,120ohm,J)	CRD20TJ121T	1		
R3114	nsp	RES, CARBON(1/5W,560ohm,J)	CRD20TJ561T	1		
R3115	nsp	RES, CARBON(1/5W,33Kohm,J)	CRD20TJ333T	1		
R3116	nsp	RES, CARBON(1/5W,560ohm,J)	CRD20TJ561T	1		
R3117	nsp	RES, CARBON(1/5W,100ohm,J)	CRD20TJ101T	1		
R3118	nsp	RES, CARBON(1/5W,33Kohm,J)	CRD20TJ333T	1		
R3119	nsp	RES, CARBON(1/5W,470ohm,J)	CRD20TJ471T	1		
R3120	nsp	RES, CARBON(1/5W,470ohm,J)	CRD20TJ471T	1		
R3121	nsp	RES, CARBON(1/5W,180ohm,J)	CRD20TJ181T	1		
R3122	nsp	RES, CARBON(1/5W,180ohm,J)	CRD20TJ181T	1		
R3123	nsp	RES, CARBON(1/5W,47ohm,J)	CRD20TJ470T	1		
R3124	nsp	RES, CARBON(1/5W,47ohm,J)	CRD20TJ470T	1		
R3125	nsp	RES, CARBON(1/5W,47Kohm,J)	CRD20TJ473T	1		
R3126	nsp	RES, CARBON(1/5W,68ohm,J)	CRD20TJ680T	1		
R3127	nsp	RES, CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
R3128	nsp	RES, CHIP(1608/5%/470Kohm)	CRJ10DJ474T	1		
R3129	nsp	RES, CARBON(1/5W,68ohm,J)	CRD20TJ680T	1		
R3130	nsp	RES, CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
R3131	nsp	RES, CARBON(1/5W,68ohm,J)	CRD20TJ680T	1		
R3132	nsp	RES, CARBON(1/5W,1Kohm,J)	CRD20TJ102T	1		
R3133	nsp	RES, CARBON(1/5W,22Kohm,J)	CRD20TJ223T	1		
R3201	nsp	RES, CARBON(1/5W,1Kohm,J)	CRD20TJ102T	1		
R3202	nsp	RES, CARBON(1/5W,1Kohm,J)	CRD20TJ102T	1		
R3203	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
R3206	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
R3207	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
R3208	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
R3209	nsp	RES, CARBON(1/5W,4.7Kohm,J)	CRD20TJ472T	1		
R3210	nsp	RES, CARBON(1/5W,4.7Kohm,J)	CRD20TJ472T	1		
R3211	nsp	RES, CARBON(1/5W,120ohm,J)	CRD20TJ121T	1		
R3212	nsp	RES, CARBON(1/5W,68ohm,J)	CRD20TJ680T	1		
R3213	nsp	RES, CARBON(1/5W,120ohm,J)	CRD20TJ121T	1		
R3214	nsp	RES, CARBON(1/5W,560ohm,J)	CRD20TJ561T	1		
R3215	nsp	RES, CARBON(1/5W,33Kohm,J)	CRD20TJ333T	1		
R3216	nsp	RES, CARBON(1/5W,560ohm,J)	CRD20TJ561T	1		
R3217	nsp	RES, CARBON(1/5W,100ohm,J)	CRD20TJ101T	1		
R3218	nsp	RES, CARBON(1/5W,33Kohm,J)	CRD20TJ333T	1		
R3219	nsp	RES, CARBON(1/5W,470ohm,J)	CRD20TJ471T	1		
R3220	nsp	RES, CARBON(1/5W,470ohm,J)	CRD20TJ471T	1		
R3221	nsp	RES, CARBON(1/5W,180ohm,J)	CRD20TJ181T	1		
R3222	nsp	RES, CARBON(1/5W,180ohm,J)	CRD20TJ181T	1		
R3223	nsp	RES, CARBON(1/5W,47ohm,J)	CRD20TJ470T	1		
R3224	nsp	RES, CARBON(1/5W,47ohm,J)	CRD20TJ470T	1		
R3225	nsp	RES, CARBON(1/5W,47Kohm,J)	CRD20TJ473T	1		
R3226	nsp	RES, CARBON(1/5W,68ohm,J)	CRD20TJ680T	1		
R3227	nsp	RES, CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
R3228	nsp	RES, CHIP(1608/5%/470Kohm)	CRJ10DJ474T	1		
R3229	nsp	RES, CARBON(1/5W,68ohm,J)	CRD20TJ680T	1		
R3230	nsp	RES, CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
R3231	nsp	RES, CARBON(1/5W,68ohm,J)	CRD20TJ680T	1		
R3301	nsp	RES, CARBON(1/5W,200ohm,J)	CRD20TJ201T	1		
R3303	nsp	RES, CARBON(1/5W,6.8Kohm,J)	CRD20TJ682T	1		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R3304	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1	
R3305	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1	
R3306	nsp	RES, CARBON(1/5W,6.8Kohm,J)		CRD20TJ682T	1	
R3308	nsp	RES, CARBON(1/5W,33ohm,J)		CRD20TJ330T	1	
R3309	nsp	RES, CARBON(1/5W,33ohm,J)		CRD20TJ330T	1	
R3401	nsp	RES, CARBON(1/5W,200ohm,J)		CRD20TJ201T	1	
R3402	nsp	RES, CARBON(1/5W,6.8Kohm,J)		CRD20TJ682T	1	
R3403	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1	
R3404	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1	
R3405	nsp	RES, CARBON(1/5W,6.8Kohm,J)		CRD20TJ682T	1	
R3406	nsp	RES, CARBON(1/5W,33ohm,J)		CRD20TJ330T	1	
R3408	nsp	RES, CARBON(1/5W,33ohm,J)		CRD20TJ330T	1	
R3503	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1	
R3504	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1	
R3573	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1	
R3579	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1	
R3580	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1	
R3581	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1	
R3601	nsp	RES, CHIP(1608/5%/100ohm)	U	CRJ10DJ101T	1	
R3602	nsp	RES, CHIP(1608/5%/100ohm)	U	CRJ10DJ101T	1	
R3702	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1	
R3901	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1	
R3902	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1	
R3903	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1	
R3908	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1	
R3909	nsp	RES, CARBON(1/5W,47Kohm,J)		CRD20TJ473T	1	
R3910	nsp	RES, CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T	1	
R3911	nsp	RES, CARBON(1/5W,1Kohm,J)		CRD20TJ102T	1	
R3912	nsp	RES, CARBON(1/4W,1.2Kohm,J)		CRD25TJ122T	1	
R3913	nsp	RES, CARBON(1/5W,8.2Kohm,J)		CRD20TJ822T	1	
R3914	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1	
R3915	nsp	RES, CARBON(1/4W,1.2Kohm,J)		CRD25TJ122T	1	
R3916	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1	
R3917	nsp	RES, CHIP(1608/5%/270Kohm)		CRJ10DJ274T	1	
R3918	nsp	RES, CHIP(1608/5%/330Kohm)		CRJ10DJ334T	1	
R3919	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1	
R3921	nsp	RES, CHIP(1608/5%/220Kohm)		CRJ10DJ224T	1	
R3922	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1	
R3923	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1	
R3924	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1	
R3931	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1	
R3951	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	1	
R3952	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	1	
R4001	nsp	RES, CHIP(3216/5%/1ohm)		CRJ14CJ1R0T	1	
R4002	nsp	RES, CHIP(1608/5%/270ohm)		CRJ10DJ271T	1	
R4003	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1	
R4004	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1	
R4005	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1	
R4006	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1	
R4007	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1	
R4008	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1	
R4009	nsp	RES, CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1	
R4010	nsp	RES, CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1	
R4011	nsp	RES, CHIP(1608/5%/680ohm)		CRJ10DJ681T	1	
R4012	nsp	RES, CHIP(1608/5%/680ohm)		CRJ10DJ681T	1	
R4013	nsp	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	1	
R4014	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1	
R4015	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1	
R4016	nsp	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	1	
R4017	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1	
R4018	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1	
R4019	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1	
R4020	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1	
R4021	nsp	RES, CHIP(3216/5%/1ohm)		CRJ14CJ1R0T	1	
R4101	nsp	RES, CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	1	
R4102	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1	
R4103	nsp	RES, CHIP(1608/5%/1.5Kohm)		CRJ10DJ152T	1	
R4301	nsp	RES, CARBON(1/5W,75Kohm,J)		CRD20TJ753T	1	*
R4302	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1	
R4303	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1	
R4304	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1	
R4305	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1	
R4306	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1	
R4307	nsp	RES, CARBON(1/5W,22ohm,J)		CRD20TJ220T	1	
R4308	nsp	RES, CARBON(1/5W,22ohm,J)		CRD20TJ220T	1	
R4309	nsp	RES, CARBON(1/5W,47Kohm,J)		CRD20TJ473T	1	
R4310	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1	
R4311	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1	
R4312	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1	
R4313	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1	
R4314	nsp	RES, CARBON(1/5W,1Kohm,J)		CRD20TJ102T	1	
R4315	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1	
R4316	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	1	
R4317	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1	
R4318	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1	
R4321	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1	
R4322	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1	
R4323	nsp	RES, CARBON(1/5W,33ohm,J)		CRD20TJ330T	1	
R4401	nsp	RES, CARBON(1/5W,75Kohm,J)		CRD20TJ753T	1	*
R4402	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1	
R4403	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1	
R4404	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1	
R4405	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1	
R4406	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1	
R4407	nsp	RES, CARBON(1/5W,22ohm,J)		CRD20TJ220T	1	
R4408	nsp	RES, CARBON(1/5W,22ohm,J)		CRD20TJ220T	1	
R4409	nsp	RES, CARBON(1/5W,47Kohm,J)		CRD20TJ473T	1	
R4410	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1	
R4411	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1	
R4412	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1	
R4413	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1	
R4414	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1	
R4415	nsp	RES, CARBON(1/5W,1Kohm,J)		CRD20TJ102T	1	
R4416	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1	
R4417	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	1	
R4418	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1	
R4419	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1	
R4420	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1	
R4421	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1	
R4423	nsp	RES, CARBON(1/5W,33ohm,J)		CRD20TJ330T	1	
CAPACITORS GROUP						
C3101	943133501550M	CAP , POLYPROPYLENE(FNS(135)-100VDC-561J)		CCMP2A561JS13T	1	
C3102	943133501560M	CAP , POLYPROPYLENE(FNS(135)-100VDC-821J)		CCMP2A821JS13T	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C3103	943133501560M	CAP , POLYPROPYLENE(FNS(135)-100VDC-821J)		CCMP2A821JS13T	1	
C3104	943133501570M	CAP , POLYPROPYLENE(FAS(133)-200V-181K)		CCMP2B181KS17T	1	
C3105	943133501570M	CAP , POLYPROPYLENE(FAS(133)-200V-181K)		CCMP2B181KS17T	1	
C3106	943133501580M	CAP , POLYPROPYLENE(FAS(133)-200V-221K)		CCMP2B221KS17T	1	
C3108	943133501590M	CAP , POLYPROPYLENE (FAS(133)-200VDC 470KTP		CCMP2B470KS17T	1	
C3109	00MOA227025R0	CAP , ELECT(220UF/25V , 10X20 , ELNA/ROA)		CCEA1EROA221T	1	
C3110	00MOA107025Z1	CAP , ELECT (ELNA/R0S, 25V/100UF)		HCEA1ER101T	1	
C3111	nsp	EOL item WIRE, COPPER(D0.6)		C3A206	0.02	
C3120	00D2544569720	1000uF/25V 10x20mm ELNA RA3		CCEA1ERA3102E	1	
C3201	943133501550M	CAP , POLYPROPYLENE(FNS(135)-100VDC-561J)		CCMP2A561JS13T	1	
C3202	943133501560M	CAP , POLYPROPYLENE(FNS(135)-100VDC-821J)		CCMP2A821JS13T	1	
C3203	943133501560M	CAP , POLYPROPYLENE(FNS(135)-100VDC-821J)		CCMP2A821JS13T	1	
C3204	943133501570M	CAP , POLYPROPYLENE(FAS(133)-200V-181K)		CCMP2B181KS17T	1	
C3205	943133501570M	CAP , POLYPROPYLENE(FAS(133)-200V-181K)		CCMP2B181KS17T	1	
C3206	943133501580M	CAP , POLYPROPYLENE(FAS(133)-200V-221K)		CCMP2B221KS17T	1	
C3208	943133501590M	CAP , POLYPROPYLENE (FAS(133)-200VDC 470KTP		CCMP2B470KS17T	1	
C3209	00MOA227025R0	CAP , ELECT(220UF/25V , 10X20 , ELNA/ROA)		CCEA1EROA221T	1	
C3210	00MOA107025Z1	CAP , ELECT (ELNA/R0S, 25V/100UF)		HCEA1ER101T	1	
C3211	nsp	EOL item WIRE, COPPER(D0.6)		C3A206	0.02	
C3301	943134502660M	CAP , ELECT (22uF/25V, ROS, ELNA)		CCEA1EROS220T	1	
C3302	943133502080S	CAP , POLYPROPYLENE(FAS(133)-200V-101K)		CCMP2B101KS17T	1	
C3303	00D2544573981	CAP , ELECT(50V/10uF),ELNA/RA3,5X11		CCEA1HRA38P100T	1	
C3401	943134502660M	CAP , ELECT (22uF/25V, ROS, ELNA)		CCEA1EROS220T	1	
C3402	943133502080S	CAP , POLYPROPYLENE(FAS(133)-200V-101K)		CCMP2B101KS17T	1	
C3403	00D2544573981	CAP , ELECT(50V/10uF),ELNA/RA3,5X11		CCEA1HRA38P100T	1	
C3501	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3502	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3503	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3507	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3508	00MOA107025Z1	CAP , ELECT (ELNA/R0S, 25V/100UF)		HCEA1ER101T	1	
C3509	00MOA107025Z1	CAP , ELECT (ELNA/R0S, 25V/100UF)		HCEA1ER101T	1	
C3510	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3511	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3512	00MOA107025Z1	CAP , ELECT (ELNA/R0S, 25V/100UF)		HCEA1ER101T	1	
C3541	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3542	00MOA107025Z1	CAP , ELECT (ELNA/R0S, 25V/100UF)		HCEA1ER101T	1	
C3543	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3544	00MOA106025R1	CAP , ELECT (10uF/25V, ROA, ELNA)		CCEA1EROA100T	1	
C3545	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3546	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3547	00MOA107025Z1	CAP , ELECT (ELNA/R0S, 25V/100UF)		HCEA1ER101T	1	
C3548	00MOA107025R1	CAP , ELECT(ROA, 25V/100UF, 10X16)		CCEA1EROA101T	1	
C3549	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3552	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3553	00MOA107025R1	CAP , ELECT(ROA, 25V/100UF, 10X16)		CCEA1EROA101T	1	
C3554	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3555	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3556	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3601	nsp	CAP , ELECT(10V/100uF)	U	CCEA1AH101T	1	
C3602	nsp	CAP , CHIP(1608 , 50V/0.1uF)	U	CCUS1H104KC	1	
C3701	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3703	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3704	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3901	nsp	CAP , ELECT(50V/1uF)		CCEA1HH1R0T	1	
C3902	nsp	CAP , ELECT(10V/220uF)		CCEA1AH221T	1	
C3903	nsp	CAP , CHIP(1608 , 50V/0.022uF)		CCUS1H223KC	1	
C3904	nsp	CAP , CHIP(1608 , 50V/0.022uF)		CCUS1H223KC	1	
C3905	00MOA47702520	CAP , ELECT(25V/470uF)		CCEA1EH471E	1	
C3906	nsp	CAP , ELECT(25V/47uF)		CCEA1EH470T	1	
C3907	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3908	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3909	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3910	943134502680M	CAP , ELECT(10uF/63V)		CCEA1JH100T	1	
C3911	nsp	CAP , CHIP(1608 , 50V/0.022uF)		CCUS1H223KC	1	
C3912	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3913	nsp	CAP , ELECT(50V/2.2uF)		CCEA1HH2R2T	1	
C3914	00MOA47702520	CAP , ELECT(25V/470uF)		CCEA1EH471E	1	
C3915	13405022440AS	470uF/25V 10x12.5mm ELNA RA3		CCEA1ERA3471E	1	
C3916	nsp	CAP , CHIP(1608 , 50V/0.022uF)		CCUS1H223KC	1	
C3917	00MOA47702520	CAP , ELECT(25V/470uF)		CCEA1EH471E	1	
C3918	nsp	CAP , ELECT(16V/100uF)		CCEA1CH101T	1	
C3919	nsp	CAP , CHIP(1608 , 50V/0.022uF)		CCUS1H223KC	1	
C3920	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3921	nsp	CAP , MYLAR(50V/0.1uF/J)		HCQ1H104J2T	1	
C3924	nsp	CAP , CHIP(1608 , 50V/0.022uF)		CCUS1H223KC	1	
C3925	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3926	nsp	CAP , ELECT(63V/220uF)		CCEA1JH221E	1	
C3929	00D2544576713	CAP , ELECT (1000uF/35V, RA3, 12.5X20)		CCEA1VRA3102E	1	
C3930	943134502740M	CAP , ELECT(6800UF/25V , RJ4, ELNA)		CCEA1ERJ4682E	1	
C3931	00D9430024408	CAP , CERAMIC(X1/Y2/SC)		KCKDKS472ME	1	
C3951	943134502750M	CAP , ELECT(NICHICON, 35V/1000UF)		CCEA1VLKG102E	1	
C3952	943134502750M	CAP , ELECT(NICHICON, 35V/1000UF)		CCEA1VLKG102E	1	
C3953	943134502650M	CAP , ELECT (47uF/25V, ROA, ELNA)		CCEA1EROA470T	1	
C3954	943134502650M	CAP , ELECT (47uF/25V, ROA, ELNA)		CCEA1EROA470T	1	
C3955	00MOA227025R0	CAP , ELECT(220UF/25V , 10X20 , ELNA/ROA)		CCEA1EROA221T	1	
C3956	00MOA227025R0	CAP , ELECT(220UF/25V , 10X20 , ELNA/ROA)		CCEA1EROA221T	1	
C3958	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C3959	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4001	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4002	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4003	nsp	CAP , CHIP(1608 , 50V/22pF)		CCUS1H220JA	1	
C4004	nsp	CAP , CHIP(1608 , 50V/22pF)		CCUS1H220JA	1	
C4005	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4006	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4007	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4008	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4009	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4010	nsp	CAP , ELECT(16V/47uF)-S		CCEA1CKS470T	1	
C4011	nsp	CAP , CHIP(1608 , 50V/100pF)		CCUS1H101JA	1	
C4012	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4013	nsp	CAP , CHIP(1608 , 50V/0.1uF)		CCUS1H104KC	1	
C4014	nsp	CAP , ELECT(16V/47uF)-S		CCEA1CKS470T	1	
C4015	nsp	CAP , CHIP(1608 , 50V/100pF)		CCUS1H101JA	1	
C4016	nsp	CAP , CHIP(1608 , 50V/100pF)		CCUS1H101JA	1	
C4017	nsp	CAP , CHIP(1608 , 50V/100pF)		CCUS1H101JA	1	
C4019	nsp	CAP , ELECT(50V/10uF)-S		CCEA1HKS100T	1	
C4301	00D2544573981	CAP , ELECT(50V/10uF),ELNA/RA3,5X11		CCEA1HRA38P100T	1	
C4302	943133502580S	CAP , POLYPROPTLENE(FAS(133)-200V-151K)		CCMP2B151KS17T	1	
C4303	00D2544574919	CAP , ELECT(50V/47uF),ELNA/RA3		CCEA1HRA3470T	1	
C4304	00D9430188700	CAP , ELECT(25V/100uF,ELNA/RA3)		CCEA1ERA3101T	1	
C4305	nsp	CAP , CHIP(1608 , 50V/1000pF)		CCUS1H102KC	1	
C4306	nsp	RES , CHIP(1608/5%/0ohm)		CRJ10DJ30R0T	1	
C4307	nsp	RES , CHIP(1608/5%/0ohm)		CRJ10DJ30R0T	1	

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
C4308	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C4309	00D2544569924	CAP, ELECT(25V/100uF,ELNA/RA3,6.3X11,101MF3#8P-T2)		CCEA1ERA38P101T	1		
C4310	00D2544569924	CAP, ELECT(25V/100uF,ELNA/RA3,6.3X11,101MF3#8P-T2)		CCEA1ERA38P101T	1		
C4311	00D2544569924	CAP, ELECT(25V/100uF,ELNA/RA3,6.3X11,101MF3#8P-T2)		CCEA1ERA38P101T	1		
C4312	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C4313	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C4315	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471J2T	1		
C4401	00D2544573981	CAP, ELECT(50V/10uF,ELNA/RA3,5X11		CCEA1HRA38P100T	1		
C4402	943133502580S	CAP, POLYPROPTLENE(FAS(133)-200V-151K)		CCMP2B151KS17T	1		
C4403	00D2544574919	CAP, ELECT(50V/47uF,ELNA/RA3		CCEA1HRA3470T	1		
C4404	00D9430188700	CAP, ELECT(25V/100uF,ELNA/RA3)		CCEA1ERA3101T	1		
C4405	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1		
C4406	00D2544569924	CAP, ELECT(25V/100uF,ELNA/RA3,6.3X11,101MF3#8P-T2)		CCEA1ERA38P101T	1		
C4415	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471J2T	1		
OTHER PARTS GROUP							
B3502	nsp	PLATE , EARTH(TRONIC ELECTRONICS)		CJT1A026	1		
B4301	nsp	WIRE ASS'Y		CWE8202150RV	1		
BK10	nsp	BRACKET , PCB	U	CMD1A569-V1	1		
BK11	nsp	BRACKET , PCB	U	CMD1A569-V1	1		
BK12	nsp	BRACKET , PCB		CMD1A569-V1	1		
BK13	nsp	BRACKET , PCB		CMD1A569-V1	1		
BK41	nsp	EARTH PLATE (HP)		VMC1A491	1	*	
BN1101	nsp	USB WIRE ASS'Y (5PIN,350MM,61205032500AS)		CWZCD6004B1101	1		
BN2101	nsp	WAFER, FFC(19P-1.25mm, STRAIGHT)		CJP19GA115ZY	1		
BN2201	nsp	WIRE ASS'Y (3PIN,140MM,61205032800AS)	U	CWZCD6004B2201	1		
BN2801	nsp	WIRE ASS'Y (13PIN,80MM,61205032400AS)		CWZCD6004B2801	1		
BN3301	nsp	WIRE ASS'Y(9P, SHIELD, 120mm, 2.0mm)		CWB1C0091207E00	1	*	
BN3504	nsp	WIRE ASS'Y (5PIN,300MM,61205032600AS)		CWZCD6004B3504	1		
BN3902	nsp	WIRE ASS'Y(2P, 220mm,3.96mm)		CWB4D932200UZ	1	*	
BN3903	nsp	WIRE ASS'Y (10PIN,120MM,61205032300AS)		CWZCD6004B3903	1		
BN4101	nsp	WIRE ASS'Y (5PIN,40MM,61205032700AS)		CWZCD6004B4101	1		
CN3301	nsp	WAFER, STRAIGHT, 9PIN		CJP09GA19ZY	1		
CN3504	nsp	LOCKING TYPE , STRAIGHT WAFER , 2.5MM		CJP05GI237ZW	1		
CN3901	nsp	WAFER, 2P, 3.96mm		CJP02KA060ZY	1		
CN3902	nsp	WAFER, 2P, 7.92mm		CJP02GA89ZY	1		
CN3903	nsp	LOCKING TYPE , STRAIGHT WAFER , 2.5MM 10PIN		CJP10GI237ZW	1		
CN4101	nsp	WAFER , STRAIGHT		CJP05GA19ZY	1		
F3001	nsp	HOLDER , FUSE		KJCF-C55	2		
! F3001	90M-FS001260R	FUSE(218Series, 250V/630mA)	U, F	KBA2C0630TLEY	1		
! F3001	90M-FS001260R	FUSE(218Series, 250V/315mA)	N, K	KBA2C0315TLEY	1		
! F3903	943652500330M	FUSE(372 Series/4A/TR5)		CBA2D4000A3EYT	1		
! F3951	90M-FS001530R	FUSE(0.8A, 372 SERIES/TR5)		KBA2D0800A3EYT	1		
! F3952	90M-FS001530R	FUSE(0.8A, 372 SERIES/TR5)		KBA2D0800A3EYT	1		
FCB300	nsp	WAFER, FFC(19P-1mm, STRAIGHT)		CJP19GA117ZY	1		
K3101	943643002370S	JACK , 1P BOARD (WHITE, GD PLATE)		CJ34M064Z	1		
K3201	943643002380S	JACK , 1P BOARD (RED, GD PLATE)		CJ34M065Z	1		
K3601	90M-YT004860R	JACK, STEREO (BLK MOLD)	U	CJ32D008Z	1		
K4003	943643100150S	JACK , USB STRAIGHT(BLACK)		CJJ9X006Z	1		
K4301	943643102640M	JACK , PHONE(6.3mm,4PIN,Silver)		CJ2E036Z	1		
L3301	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L3302	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L3303	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L3304	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L3305	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L3306	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L3307	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L3405	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4001	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4002	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4003	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4004	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4301	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4302	nsp	FERRITE , CHIP BEAD(60ohm, 2012)		CLZ9R001Z	1		
L4303	nsp	FERRITE , CHIP BEAD(60ohm, 2012)		CLZ9R001Z	1		
L4304	nsp	FERRITE , CHIP BEAD(60ohm, 2012)		CLZ9R001Z	1		
L4305	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4306	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4307	nsp	FERRITE , CHIP BEAD(60ohm, 2012)		CLZ9R001Z	1		
L4308	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
L4401	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN	1		
! S3901	943682100540S	RELAY ,DC6V , 1C1P, 0.25W		CSL1E007ZE	1		
S4001	00D9430004402	SW , TACT		CST1A0122T	1		
S4002	00D9430004402	SW , TACT		CST1A0122T	1		
S4003	00D9430004402	SW , TACT		CST1A0122T	1		
S4004	00D9430004402	SW , TACT		CST1A0122T	1		
S4005	00D9430004402	SW , TACT		CST1A0122T	1		
S4006	00D9430004402	SW , TACT		CST1A0122T	1		
S4007	00D9430004402	SW , TACT		CST1A0122T	1		
S4101	00D9430004402	SW , TACT		CST1A0122T	1		
! T3901	943101002880M	TRANS , SUB C515	U	CLT5I009ZU	1		
! T3901	90M-TS003180R	TRANS , SUB CD6002/N	N, K	CLT5I009ZE	1		
! T3901	90M-TS003170R	TRANS , SUB CD6002/F	F	CLT5I009ZJ	1		
U3601	262010007707S	REMOTE SENSOR , R94EV1A	U	CRVR94EV1A	1		
V4301	943129500940M	V092Q20FA103 (METAL)(00D2115646001)		CVV2U02A103Z	1		
Z3501	nsp	WIRE ASS'Y(1P, 80MM,BLK,#22)		CWE5202080A	1		
Z3503	nsp	WIRE ASS'Y(1P, 80MM,BLK,#22)		CWE5202080A	1		
Z3504	nsp	WIRE ASS'Y(1P, 80MM,BLK,#22)		CWE5202080A	1		
Z3911	nsp	WIRE ASS'Y(1P, 80MM,BLK,#22)		CWE5202080A	1		
Z4001	nsp	WIRE ASS'Y(1P, 80MM,BLK,#22)		CWE5202080A	1		
@	nsp	FL SUPPORT		CHG1A584	2		
@	nsp	SHIELD , CASE FLASHER	U	CMC1A441	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.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D100	943209001080S	DIODE , CHIP , SWITCHING	CVD1SS355T	1		
D300	943209001080S	DIODE , CHIP , SWITCHING	CVD1SS355T	1		
D301	943209001080S	DIODE , CHIP , SWITCHING	CVD1SS355T	1		
D302	943209001080S	DIODE , CHIP , SWITCHING	CVD1SS355T	1		
D303	943209001080S	DIODE , CHIP , SWITCHING	CVD1SS355T	1		
D304	943209001080S	DIODE , CHIP , SWITCHING	CVD1SS355T	1		
D305	943209001080S	DIODE , CHIP , SWITCHING	CVD1SS355T	1		
D308	90M-HD201820R	DIODE, SCHOTTKY BARRIER	HVDRB160L60TE25	1		
IC100	943245006980S	I.C , CD DSP (DSP, LQFP-80P)	CVITC94A92FG CU	1		
IC101	943239101880S	I.C.MOTOR DRIVE (HSOP-M28,28PIN)	CVIBA5810FM	1	*	
IC102	90M-HC700640R	I.C , 2CH X 4 MUX	CVITC74VCX157FT	1		
IC103	943231102390S	I.C. REGULATOR(1.0A, 1.5V, SOT-223)	CVILM1117S15	1	*	
IC104	943239101150M	I.C , DIT (192K,24BIT,TSSOP-16P)	CVIAK4104ET-E2	1		
IC105	943239101160M	I.C , USB HOST CONTROLLER(LQFP-48P)	CVIUPD63530AGAGAM-AX	1		
IC106	943239100710S	I.C , CURRENT LIMITE(1.5A,UDFN-6P)	CVINCP380HJU15AATBG	1		
IC107	943248103800S	I.C , SERIAL FLASH(8M) See PROCEDURE AFTER REPLACING THE U-COM, ETC.	CVIMX25L8006EM2I-12G	1	*	
IC300	943246101070M	I.C , EEPROM (16KBIT,SOP-8P)	CVIK24C16SIRXA	1		
IC301	943234009290S	I.C , RESET 2.4V (200ms,C-MOS,SOT23-5P)	CVIS80124CLMCJ1JT2	1		
IC302	943241101060S	I.C , MCU WITH USB (LQFP-100PIN) (MB9AF344NAPMC, FUJITSU) See PROCEDURE AFTER REPLACING THE U-COM, ETC.	CVIANAM2330C	1	*	
IC303	23671011050AS	I.C , IPOD AUTHENTICATION FROM D&M	CVI23671011050AS_DM	1		
IC304	00D2623077900	I.C. HEX INVERTER	HVITC74VHCU04FT	1		
Q100	00D9430058908	T.R , CHIP , SOT-23	HVTKTA1504SYRTK	1		
Q101	00D2730464901	T.R , CHIP , SOT-23	HVTKTC3875SYRTK	1		
Q102	943214500330S	TR, 2SD1584Z, NPN, TO-252, RENESAS	CVT2SD1584Z	1		
Q300	00D2690184907	T.R , CHIP , SOT-23	HVTKRA102S	1		
Q301	00D2690192902	T.R , CHIP , SOT-23	HVTKRC102S	1		
Q302	00D2730464901	T.R , CHIP , SOT-23	HVTKTC3875SYRTK	1		
RESISTOR GROUP						
R100	nsp	RES, CHIP(1608/5%/91ohm)	CRJ10DJ910T	1		
R101	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R102	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R103	nsp	RES, CHIP(1608/5%/18Kohm)	CRJ10DJ183T	1		
R104	nsp	RES, CHIP(1608/5%/18Kohm)	CRJ10DJ183T	1		
R105	nsp	RES, CHIP(1608/5%/18Kohm)	CRJ10DJ183T	1		
R106	nsp	RES, CHIP(1608/5%/39ohm)	CRJ10DJ390T	1		
R107	nsp	RES, CHIP(1608/5%/39ohm)	CRJ10DJ390T	1		
R108	nsp	RES, CHIP(1608/5%/39ohm)	CRJ10DJ390T	1		
R109	nsp	RES, CHIP(1608/5%/1Kohm)	CRJ10DJ102T	1		
R110	nsp	RES, CHIP(1608/5%/39ohm)	CRJ10DJ390T	1		
R111	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R112	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R113	nsp	RES, CHIP(1608/5%/220ohm)	CRJ10DJ221T	1		
R114	nsp	RES, CHIP(1608/5%/47Kohm)	CRJ10DJ473T	1		
R115	nsp	RES, CHIP(1608/5%/15Kohm)	CRJ10DJ153T	1		
R116	nsp	RES, CHIP(1608/5%/330Kohm)	CRJ10DJ334T	1		
R118	nsp	RES, CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
R119	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R120	nsp	RES, CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
R121	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
R122	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R123	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R124	nsp	RES, CHIP(1608/5%/4.7Kohm)	CRJ10DJ472T	1		
R125	nsp	RES, CHIP(1608/5%/4.7Kohm)	CRJ10DJ472T	1		
R126	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R127	nsp	RES, CHIP(1608/5%/33ohm)	CRJ10DJ330T	1		
R128	nsp	RES, CHIP(1608/5%/15Kohm)	CRJ10DJ153T	1		
R130	nsp	RES, CHIP(1608/5%/1.8Kohm)	CRJ10DJ182T	1		
R131	nsp	RES, CHIP(1608/5%/27Kohm)	CRJ10DJ273T	1		
R132	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R134	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R135	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
R136	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
R137	nsp	RES, CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
R138	nsp	RES, CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
R139	nsp	RES, CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
R140	nsp	RES, CHIP(1608/5%/33ohm)	CRJ10DJ330T	1		
R141	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
R142	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
R147	nsp	RES, CHIP(1608/5%/100Kohm)	CRJ10DJ104T	1		
R149	nsp	RES, CHIP(1608/5%/100Kohm)	CRJ10DJ104T	1		
R150	nsp	RES, CHIP(1608/5%/12Kohm)	CRJ10DJ123T	1		
R151	nsp	RES, CHIP(1608/5%/47Kohm)	CRJ10DJ473T	1		
R152	nsp	RES, CHIP(1608/5%/47Kohm)	CRJ10DJ473T	1		
R154	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R155	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R157	nsp	RES, CHIP(1608/5%/47Kohm)	CRJ10DJ473T	1		
R158	nsp	RES, CHIP(1608/5%/1.8Kohm)	CRJ10DJ182T	1		
R159	nsp	RES, CHIP(1608/5%/27Kohm)	CRJ10DJ273T	1		
R160	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R161	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
R162	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
R163	nsp	RES, CHIP(1608/5%/47ohm)	CRJ10DJ470T	1		
R164	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
R165	nsp	RES, CHIP(1608/5%/47ohm)	CRJ10DJ470T	1		
R166	nsp	RES, CHIP(1608/5%/22ohm)	CRJ10DJ220T	1		
R167	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R168	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R169	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R170	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R171	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R172	nsp	RES, CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
R173	nsp	RES, CHIP(1608/5%/1.8Kohm)	CRJ10DJ182T	1		
R174	nsp	RES, CHIP(1608/5%/3.9Kohm)	CRJ10DJ392T	1		
R180	nsp	RES, CHIP(1608/5%/220ohm)	CRJ10DJ221T	1		
R181	nsp	RES, CHIP(1608/5%/220ohm)	CRJ10DJ221T	1		
R182	nsp	RES, CHIP(1608/5%/68ohm)	CRJ10DJ680T	1		
R183	nsp	RES, CHIP(1608/5%/10ohm)	CRJ10DJ100T	1		
R184	nsp	RES, CHIP(1608/5%/220ohm)	CRJ10DJ221T	1		
R185	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R186	nsp	RES, CHIP(1608/5%/1Kohm)	CRJ10DJ102T	1		
R187	nsp	RES, CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
R188	nsp	RES, CHIP(1608/5%/33ohm)	CRJ10DJ330T	1		
R189	nsp	RES, CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R190	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R191	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R192	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R193	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R194	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R195	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R196	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R197	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R198	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R199	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R200	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R201	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R202	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R203	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R204	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R205	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R206	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R207	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R208	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R209	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R212	nsp	RES, CHIP(1608/5%/27ohm)		CRJ10DJ270T	1		
	R213	nsp	RES, CHIP(1608/5%/27ohm)		CRJ10DJ270T	1		
	R214	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R215	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R216	nsp	RES, CHIP(1608/5%/15Kohm)		CRJ10DJ153T	1		
	R217	nsp	RES, CHIP(1608/5%/15Kohm)		CRJ10DJ153T	1		
	R218	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R219	nsp	RES, CHIP(1608/5%/15Kohm)		CRJ10DJ153T	1		
	R220	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R221	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R223	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R224	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R225	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R226	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R227	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R228	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R229	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R230	nsp	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	1		
	R231	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R234	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R237	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R238	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R239	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R240	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R241	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R242	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R243	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R244	nsp	RES, CHIP(3216/5%/0ohm)		CRJ14CJ0R0T	1		
	R245	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R300	nsp	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	1		
	R301	nsp	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	1		
	R302	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R303	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R304	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R305	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R306	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R307	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R308	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R309	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R310	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R311	nsp	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	1		
	R312	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R313	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R314	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R315	nsp	RES, CHIP(1608/5%/18Kohm)		CRJ10DJ183T	1		
	R316	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R317	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R318	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R319	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R320	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R321	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R322	nsp	RES, CHIP(1608/5%/4.7Kohm)	U	CRJ10DJ472T	1		
	R322	nsp	RES, CHIP(1608/5%/1Kohm)	N	CRJ10DJ102T	1		
	R322	nsp	RES, CHIP(1608/5%/8.2Kohm)	K	CRJ10DJ822T	1		
	R322	nsp	RES, CHIP(1608/5%/1.8Kohm)	F	CRJ10DJ182T	1		
	R323	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R324	nsp	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	1		
	R325	nsp	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	1		
	R326	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R327	nsp	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	1		
	R328	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R330	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R331	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R332	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R333	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R334	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R336	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R338	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R341	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R344	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R345	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R346	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R347	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R348	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R350	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R351	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R352	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R353	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R356	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R357	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R358	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R359	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R360	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R361	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R363	nsp	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	1		
	R364	nsp	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	1		
	R365	nsp	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	1		
	R366	nsp	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	1		
	R367	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R368	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R369	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R370	nsp	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	1		
	R371	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		

								MAIN
REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver	
R372	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1			
R373	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1			
R374	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1			
R375	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R376	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R377	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R378	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R379	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R381	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R382	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R383	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R384	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R385	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R386	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R387	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R388	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R389	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R390	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R391	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R392	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R393	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1			
R394	nsp	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1			
R395	nsp	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1			
R396	nsp	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1			
CAPACITORS GROUP								
C101	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C102	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C103	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C104	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	1			
C105	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1			
C106	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C108	nsp	CAP, ELECT(6.3V/470uF)		CCEA0JH471T	1			
C109	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C110	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C111	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C112	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C113	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C114	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C115	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C116	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C117	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C118	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C119	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C120	nsp	CAP, ELECT(6.3V/1000uF)		CCEA0JH102T	1			
C121	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C122	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C123	nsp	CAP, ELECT(6.3V/1000uF)		CCEA0JH102T	1			
C124	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C125	nsp	CAP, CHIP(1608, 50V/0.015uF)		CCUS1H153KC	1			
C126	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C127	nsp	CAP, CHIP(1608, 50V/2200pF)		CCUS1H222KC	1			
C129	nsp	CAP, CHIP(1608, 50V/47pF)		CCUS1H470JA	1			
C130	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	1			
C131	nsp	CAP, CHIP(1608, 50V/4700pF)		CCUS1H472KC	1			
C132	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C133	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C134	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	1			
C135	nsp	CAP, CHIP(1608, 50V/0.015uF)		CCUS1H153KC	1			
C136	nsp	CAP, CHIP(1608, 50V/0.033uF)		CCUS1H333KC	1			
C137	nsp	CAP, CHIP(1608, 50V/5600pF)		CCUS1H562KC	1			
C138	00MDD95391370	CAP, CHIP(1608, 50V/390pF)		CCUS1H391JA	1			
C139	00MDD95391370	CAP, CHIP(1608, 50V/390pF)		CCUS1H391JA	1			
C140	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C143	00MDK96682300	CAP, CHIP(1608, 50V/6800pF)		CCUS1H682KC	1			
C145	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C146	00MDK96682300	CAP, CHIP(1608, 50V/6800pF)		CCUS1H682KC	1			
C147	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1			
C149	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1			
C150	nsp	CAP, CHIP(1608, 50V/22pF)		CCUS1H220JA	1			
C151	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C153	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C154	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C157	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C158	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C159	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C160	943134502570M	CAP, ELEC SMD(6.3V/220uF, PVWZ Series, ESR,105°C)		CCEC0JPVWZ221TS	1			
C161	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C162	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C163	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C164	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1			
C165	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1			
C166	nsp	CAP, ELECT(25V/47uF)		CCEA1EH470T	1			
C167	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C168	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C170	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C171	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C172	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C173	943134502570M	CAP, ELEC SMD(6.3V/220uF, PVWZ Series, ESR,105°C)		CCEC0JPVWZ221TS	1			
C174	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C175	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C176	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1			
C178	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1			
C179	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1			
C182	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	1			
C183	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA	1			
C184	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C185	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C186	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C187	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C191	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C192	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1			
C195	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1			
C196	nsp	CAP, CHIP(1608, 50V/12pF)		CCUS1H120JA	1			
C197	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C198	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C199	nsp	CAP, ELECT(6.3V/1000uF)		CCEA0JH102T	1			
C200	nsp	CAP, ELECT(10V/47uF)		CCEA1AH470T	1			
C201	nsp	CAP, ELECT(25V/47uF)		CCEA1EH470T	1			
C202	943134502570M	CAP, ELEC SMD(6.3V/220uF, PVWZ Series, ESR,105°C)		CCEC0JPVWZ221TS	1			
C203	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1			
C204	nsp	CAP, CHIP(1608, 50V/10pF)		CCUS1H100JA	1			
C205	nsp	CAP, CHIP(1608, 50V/10pF)		CCUS1H100JA	1			
C206	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1			

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C208	nsp	CAP, ELECT(10V/100uF)	CCEA1AH101T	1		
C210	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C211	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C212	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C215	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C216	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C222	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C300	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C301	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C302	nsp	CAP, CHIP(1608, 50V/100pF)	CCUS1H101JA	1		
C303	nsp	CAP, CHIP(1608, 50V/470pF)	CCUS1H471JA	1		
C304	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C306	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C307	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C308	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C309	00MOA107025Z1	CAP, ELECT (ELNA/R0S, 25V/100UF)	HCEA1ER101T	1		
C310	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C311	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C312	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C313	nsp	CAP, CHIP(1608, 50V/27pF)	CCUS1H270JA	1		
C314	nsp	CAP, CHIP(1608, 50V/27pF)	CCUS1H270JA	1		
C316	nsp	CAP, CHIP(1608, 50V/100pF)	CCUS1H101JA	1		
C317	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C318	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C319	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C320	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C321	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C324	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C326	nsp	CAP, ELECT(25V/47uF)	CCEA1EH470T	1		
C327	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C328	nsp	CAP, ELECT(10V/100uF)	CCEA1AH101T	1		
C329	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C330	nsp	CAP, CHIP(1608, 50V/0.01uF)	CCUS1H103KC	1		
C331	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C332	nsp	CAP, CHIP(1608, 50V/0.01uF)	CCUS1H103KC	1		
C333	nsp	CAP, CHIP(1608, 50V/15pF)	CCUS1H150JA	1		
C334	nsp	CAP, CHIP(1608, 50V/15pF)	CCUS1H150JA	1		
C335	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C336	nsp	CAP, CHIP(1608, 50V/0.01uF)	CCUS1H103KC	1		
C337	nsp	CAP, CHIP(1608, 50V/0.01uF)	CCUS1H103KC	1		
C339	nsp	CAP, CHIP(1608, 50V/0.01uF)	CCUS1H103KC	1		
C354	nsp	CAP, CHIP(1608, 50V/0.01uF)	CCUS1H103KC	1		
C355	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C356	nsp	CAP, CHIP(2012, 10V/22uF, X5R) SAMSUNG	CCUC1A226KCS	1		
C361	nsp	CAP, CHIP(2012, 10V/22uF, X5R) SAMSUNG	CCUC1A226KCS	1		
C362	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
C364	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC	1		
OTHER PARTS GROUP						
B101	nsp	PLATE, EARTH(TRONIC ELECTRONICS)	CJT1A026	1		
B102	nsp	PLATE, EARTH(TRONIC ELECTRONICS)	CJT1A026	1		
BK100	nsp	BRACKET, PCB	CMD1A569-V1	1		
CN1101	nsp	WAFER, SMD (2MM PITCH)	CJP05GA208ZY	1		
CN135	nsp	WAFER, FFC, SMD(09-1mm, STRAIGHT)	CJP09GA193ZY	1		
CN2101	nsp	WAFER, FFC, SMD(19P-1.25mm, STRAIGHT)	CJP19GA299ZN	1		
CN2201	nsp	WAFER, SMD (2MM PITCH)-3P	CJP03GA208ZY	1		
CN2801	nsp	WAFER, STRAIGHT, 13PIN	CJP13GA19ZY	1		
CN301	nsp	WAFER, FFC(7P-1mm, ANGLE)	CJP07GB113ZY	1		
CWC100	nsp	WAFER, SMD (2MM PITCH)	CJP06GA208ZY	1		
CWC101	nsp	WAFER, SMD (2MM PITCH)	CJP05GA208ZY	1		
FCC300	nsp	WAFER, FFC, SMD(19P-1mm, STRAIGHT)	CJP19GA193ZY	1		
K100	943623100030D	MODULE, OPTICAL(TX 16MHz)	CJSJST1124	1		
K101	943643102590M	JACK, 1P(BK),SEPA-GND,GOLD	CJ34M085Z	1		
K300	943643102610M	JACK RCA, 2P(O/O), VERTICAL, SILVER	CJ34N102Z	1		
L100	90M-LU000220R	INDUCTOR CHIP 10UH (3225 PKG)	HLQ10E100KRZ	1		
L101	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L102	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L103	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L105	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L106	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L107	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L300	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L301	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L302	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L303	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L304	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L305	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
L306	nsp	FERRITE CHIP BEAD(2012/220R)	CLZBLM21PG221SN1	1		
PFCK10	nsp	WAFER, FFC, SMD(16P-1mm, STRAIGHT)	CJP16GA193ZY	1		
S300	90M-SS000710R	SWITCH, SLIDE	KSS2B016Z	1		
X100	943141101040M	X-TAL, SMD, 48MHz/FCX-03.8.6PF	COX48000I086SR	1		
X300	943141101370S	X-TAL, HC-49/S SMD, 4.000MHZ, 18PF	COX04000E180ST	1		
X301	943141101030M	X-TAL, SMD, 16.9344MHZ/FCX-03.10PF	COX16934I100SR	1		
Z101	nsp	WIRE ASS'Y(1P, 80MM,BLK,#22)	CWE5202080A	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.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
PCB GROUP						
C1-1	nsp	TRANS PCB		VOP12870B	1	*
C1-2	-	POWER PCB		-	1	*
C1-3	-	AUDIO OUTPUT PCB		-	1	*
C1-4	-	FRONT PCB		-	1	*
C1-5	-	STANDBY PCB		-	1	*
C1-6	-	HEADPHONE PCB		-	1	*
C1-7	-	FLASHER		-	1	*
C2	nsp	MAIN PCB		VOP12869B	1	*
OTHER PARTS GROUP						
! C3	943101102260M	TRANS , POWER CD6005	U	CLT5N0392U	1	
! C3	943101102261M	TRANS , POWER CD6005	N, K	CLT5N0392E	1	
! C3	943101102263M	TRANS , POWER CD6005	F	CLT5N0392J	1	
C4	943302100130D	CJDKT690 CD MECHA ASSY DCD720		CJDKT690EJ	1	
C4-1	900302100200S	CD MECHANISM (Traverse)		CJD5C6201Z	1	
C4-2	30201005100AD	LM BELT	For LOADING	CDV1A011	1	
! C5	00MYJ04002640	AC INNET ASS'Y		CJ38A006ZW	1	
P1	421410006004M	BADGE , MARANTZ		CGB1A206	1	
P2	943415100410M	ORNAMENT, DOOR BLACK	BK	CGR1A552ZB37	1	
P2	943415100400M	ORNAMENT, DOOR	SG	CGR1A552RMD10	1	
P3	943416101150M	WINDOW , FIP		CGU1A423A12Y	1	
P4	nsp	PANEL , SUB CD5003/N1B	BK	CGW1A462B37	1	
P4	nsp	PANEL , SUB	SG	CGW1A462RMD10	1	
P5	943404100590M	PANEL , SIDE L	U, N, BK	CGW1A463RNVB37	1	
P5	943404100870S	PANEL SIDE L(K)	K	CGW1A463RNVB37	1	*
P5	943404100600M	PANEL , SIDE L	N, F, SG	CGW1A463ROVD10	1	
P6	943402007080M	PANEL , SIDE R CD5003/N1B	BK	CGW1A464RNB37	1	
P6	943402007090M	PANEL , SIDE R CD5003/N1SG	SG	CGW1A464ROD10	1	
P7	nsp	SHEET , LED		CGX1A411Z	1	
P8	481510003006M	INDICATOR , POWER		CGL1A274	1	
P9	411510015017M	KNOB , TACT POWER AV8003/U	BK	CBT1A1072	1	
P9	411510021036M	KNOB , POWER	SG	CBT1A1072RMD10	1	
P10	943411102840M	BUTTON , PLAY	BK	CBT1A1181	2	
P10	943411102850M	BUTTON , PLAY	SG	CBT1A1181RMD10	2	
P11	943411102860M	BUTTON , USB	BK	CBT1A1182	1	
P11	943411102870M	BUTTON , USB	SG	CBT1A1182RMD10	1	
P12	943412101430S	KNOB , ROTARY	BK	CBN1A304	1	*
P12	943412101440S	KNOB , ROTARY	SG	CBN1A304RMD10	1	*
P13	943471100930S	CUSHION , FOOT		CHG1A663	4	*
P14	943407100640S	FOOT		CKL1A235H46	4	
P15	nsp	HOLDER , PCB		CHE170	4	
P16	nsp	HOLDER , PCB		CHE2A030	3	
P17	nsp	SHEET , SCREW		CGX1A439	1	
P18	nsp	CUSHION , EVA		VHG1A660	1	*
P19	nsp	CUSHION , PCB		VHG1A657	1	*
P20	nsp	CUSHION , EVA		CHG1A104	1	
@1	nsp	WASHER		VNW2A028	1	*
@2	nsp	CLAMPER , WIRE		CHE36-3	4	
@3	nsp	TAPE , HEMELON		VHS1A032	2	
@4	nsp	TAPE , FILAMENT		C4FE187	0.06	
M1	943402106110S	PANEL , AL FRONT (BK)	BK	CKM2A203KC23	1	*
M1	943402106120S	PANEL , AL FRONT (SG)	SG	CKM2A203KC62	1	*
M2	nsp	PLATE , EARTH USB		CMC1A370	1	
M4	nsp	BRACKET SA7003 33AK		CMD1A757	1	
M5	nsp	FRAME , FRONT		CUF2A004	1	
M6	nsp	BOTTOM PALTE		CUA3A298	1	*
M7	nsp	CHASSIS BOTTOM		CUA7A289	1	*
M8	nsp	SUPPORT , MECHA		CMD2A842	1	
M9	401310003002M	CABINET , TOP CD5003/N1B	BK	VKC2A187K117	1	
M9	401310003033M	CABINET , TOP CD5003/N1SG	SG	VKC2A187D11	1	
M10 BK10-13, BK100	nsp	BRACKET , PCB		CMD1A569-V1	5	
M11	nsp	REAR , PANEL	U	VKF5A390Z	1	*
M11	nsp	REAR , PANEL	N	VKF6A390Y	1	*
M11	nsp	REAR , PANEL	K	VKF6A390Z	1	*
M11	nsp	REAR , PANEL	F	VKF6A390X	1	*
M12	nsp	WASHER , GROUND		CNW1A035	1	
M12	nsp	WASHER , GROUND		CNW1A035	5	
M13 BK41	nsp	EARTH PLATE (HP)		VMC1A491		*
@	943606007140M	CABLE , CARD (19P, 1.0MM, 250MM, B, 8MM)		CWC4F4A19A250B08	1	
@	943606502280M	CABLE , CARD CD Mecha (16P, 1mm, 140mm, A TYPE)		CWC4F1A16A140A10	1	
@	943606502950S	CABLE CARD (19P 1.250MM SHIELD 250MM B 8MM)		CWC4C4A19B250B08001	1	*
@	90M-FC500030R	FERRITE , RING		CLZ9W003Z	1	
@	90M-FC500130R	FERRITE , CORE		CLZ9Z071Z	1	
@	nsp	WIRE ASS'Y (5P, 250MM, MECHA)		CWB2B005250GG	1	
@	nsp	WIRE ASS'Y (6P, 220MM, MECHA)		CWB5A906220GG	1	
SCREW GROUP						
S1	nsp	SCREW		CTB3+8JFB	36	
S2	nsp	SCREW , DOT		CTBD3+8JFB	29	
S3	nsp	SCREW (JAPAN)		CTW3+8JFB-V1	6	
S4	nsp	SCREW		CTB4+6FFZR	4	
S5	nsp	SCREW		CTB3+12JFB	4	
S6	nsp	SCREW		CTB3+18JFB	3	
S7	nsp	SCREW , ROUND		CTBR3+6JR	6	
S8	nsp	SCREW , DOT		CTBD3+6FFB	3	

PACKING

※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.

U : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
1	943531105820S	BOX, OUT CARTON (N,U,K)	U, N, K	VPG1A994U	1	*	
1	943531105990S	BOX OUT CARTON (FN)	F	VPG1A994O	1	*	
2	nsp	POLY SHEET		VPB1A213	1	*	
3-1	943533103410S	SNOW PAD BOTTOM		VPS1A1067	1	*	
3-2	943533103420S	SNOW PAD TOP		VPS1A1066	1	*	
4-1	35201047000AM	CD MANUAL ASS'Y	U	VFT1A184ZA	1	*	
4-1	35201046900AM	CD MANUAL ASS'Y	N	VFT1A183ZA	1	*	
4-1	35201047100AM	CD MANUAL ASS'Y	K	VFT1A185ZA	1	*	
4-1	54111140200AM	MANUAL , INSTRUCTION	F	VQX1A196Z	1	*	
4-2	nsp	SHEET , SAFETY	U	VQE1A794Z	1	*	
4-2	nsp	SAFETY INSTRUCTION	N	VQE1A799Y	1	*	
4-2	nsp	SHEET , SAFETY	K	VQE1A741Y	1	*	
4-2	nsp	SHEET,SAFTY	F	CQE1A578Z	1	*	
4-3	54111140400AM	MANUAL , GETTING START	U	VQX1A1957Z	1	*	
4-3	54111140500AM	MANUAL , GETTING START	N	VQX1A1955Z	1	*	
4-3	54111140800AM	MANUAL , GETTING START	K	VQX1A1954Z	1	*	
4-3	54111141000AM	MANUAL , GETTING START	F	VQX1A1956Z	1	*	
4-4	nsp	CARD FOR CHINA INDENTIFICATION	K	VQE1A450Z	1	*	
4-5	nsp	CARD , WARRANTY	U	VQE1A131V	1	*	
4-6	nsp	WARRANTY , CANADA	U	VQE1A132U	1	*	
4-7	nsp	CARD , USER (JAPAN)	F	VQE1A139Q	1	*	
! 5	90M-ZC000320R	CORD , POWER(DETACHABLE/EUR)	N	CJA2B054Z	1	*	
! 5	90M-ZC000310R	CORD , POWER(PLUG+SOCKET)UL	U	CJA2A070Z	1	*	
! 5	90M-ZC000650R	CORD , POWER	K	CJA2N075Z	1	*	
! 5	611050028007S	CORD , POWER JPN INLET TYPE (250V)	F	CJA2J115ZV	1	*	
6	nsp	BAG , POLY		VPB1A008Z	2	*	
7	30701022500AS	REMOCON TRANSMITER ASS'Y (PM6006&CD6006)		CARTPMCD6006	1	*	
8	nsp	LABEL , CONTROL		VQB2A993Z	2	*	
8-1	nsp	LABEL , BAR CODE(SET)		VQB1A978	1	*	
8-2	nsp	LABEL , CONTROL		VQB2A993Z	2	*	
9	nsp	BATTERY , AAA 2PCS IN PACK		CABR03PPB-GN	2	*	
10	nsp	CORD , PIN (1P,ORANGE,700MM), TIE=WHITE		CJS4M009Y	1	*	
11	943605101000D	CORD , PIN (RCA, 1000mm, R/W, TIE=WHITE)		CJS4N014Y	1	*	
12	nsp	CARD , WARRANTY(JAPAN)	F	VQE1A123W	1	*	
12	nsp	CARD , WARRANTY CHINA	K	VQE1A449W	1	*	
13	544110091014M	LABEL , WHITE M1 SG	SG	VQB1A908Z	2	*	
14	nsp	TAPE , OPP(50)		V4FC500CL	2.2	*	