

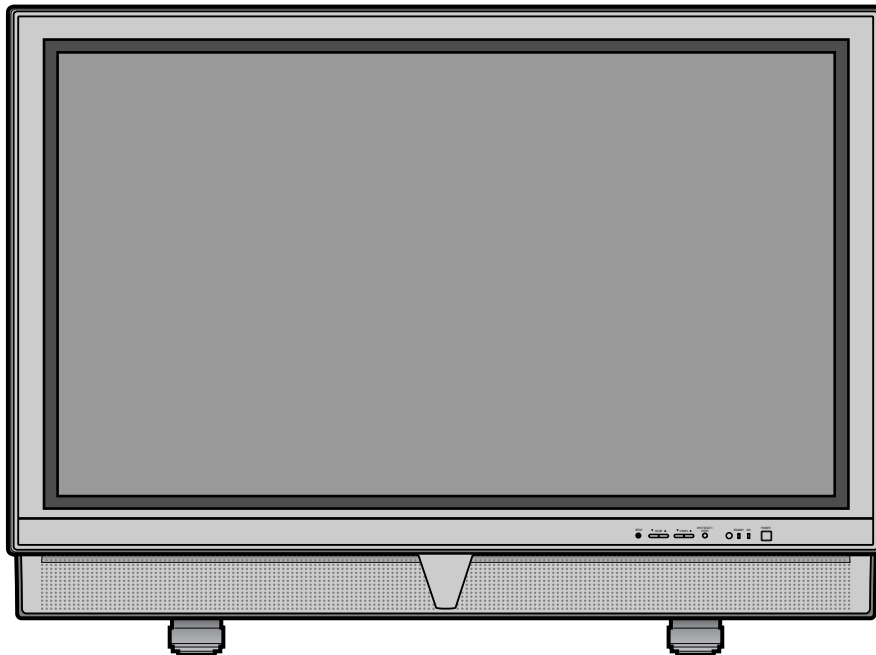


# **SERVICE MANUAL**

**This service manual shows only the differences between the model CIWP4206 A and the original model CIWP4206. All other information is described in the service manual of the model CIWP4206.**

## **42" DIGITAL/ANALOG PLASMA DISPLAY TV**

### **CIWP4206 A**



# MAIN SECTION

## 42" DIGITAL/ANALOG PLASMA DISPLAY TV

### CIWP4206 A

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# BLOCK DIAGRAMS

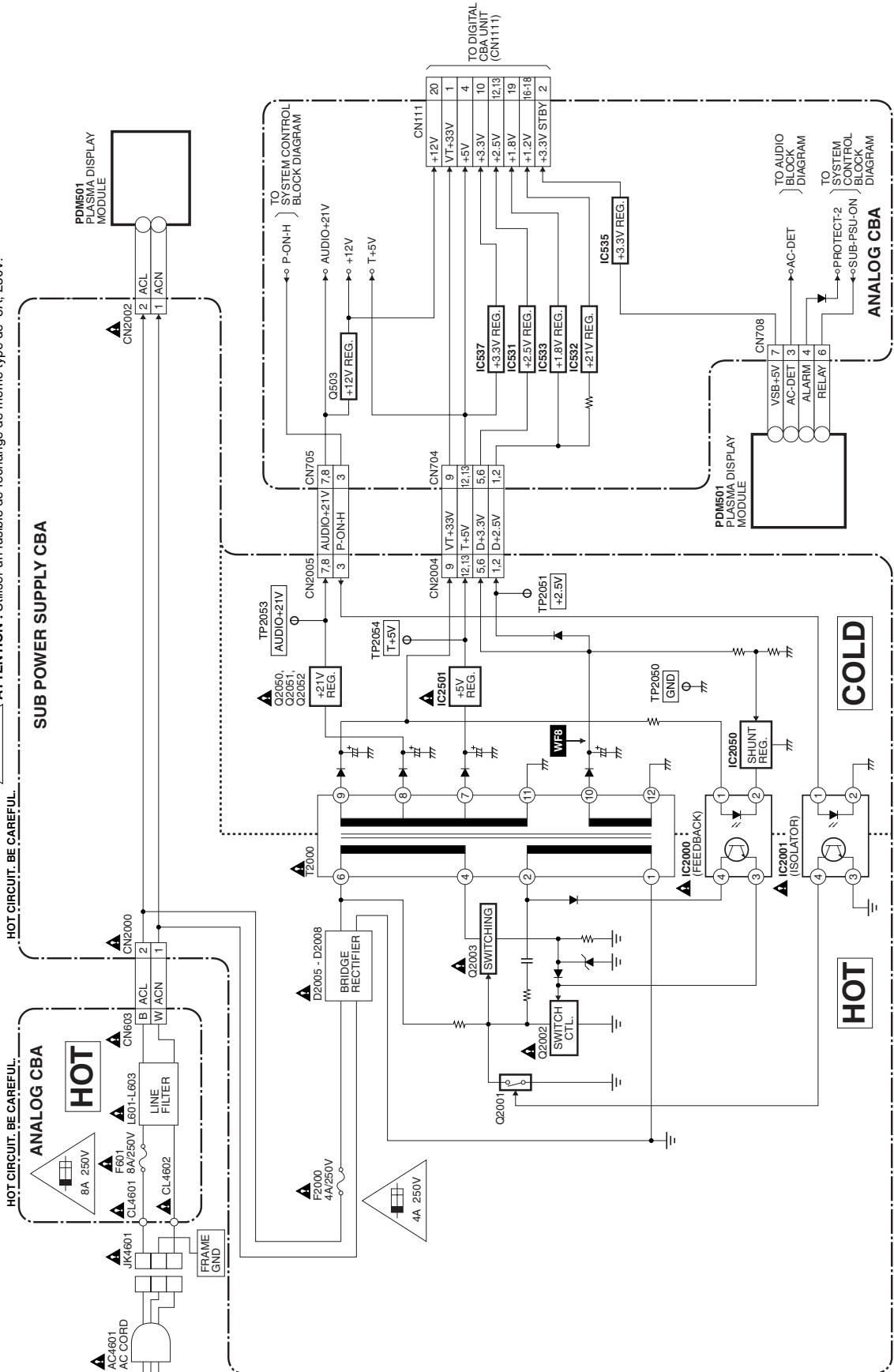
## Sub Power Supply Block Diagram

**NOTE:**  
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

**CAUTION ! :** For continued protection against risk of fire, replace only with same type 4A, 250V fuse.  
**ATTENTION :** Utiliser un fusible de même type de 4A, 250V.

**CAUTION ! :** For continued protection against risk of fire, replace only with same type 8A, 250V fuse.  
**ATTENTION :** Utiliser un fusible de même type de 8A, 250V.

**CAUTION !**  
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601, F2000) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



# SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

## Standard Notes

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "▲" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

### Note:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ( $K=10^3$ ,  $M=10^6$ ).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in  $\mu F$  ( $P=10^{-6}\mu F$ ).
5. All voltages are DC voltages unless otherwise specified.

### Note of Capacitors:

ML --- Mylar Cap. PP --- Metallized Film Cap. SC --- Semiconductor Cap. L --- Low Leakage type

### Temperature Characteristics of Capacitors are noted with the following:

B ---  $\pm 10\%$  CH ---  $0\pm 60\text{ppm}/^\circ\text{C}$  CSL ---  $+350\sim -1000\text{ppm}/^\circ\text{C}$

### Tolerance of Capacitors are noted with the following:

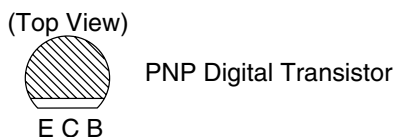
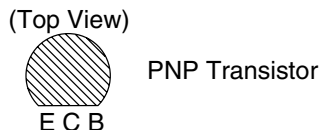
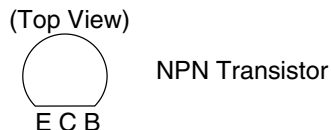
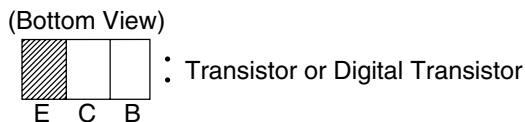
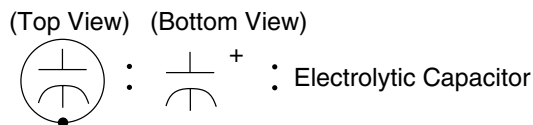
Z ---  $+80\sim -20\%$

### Note of Resistors:

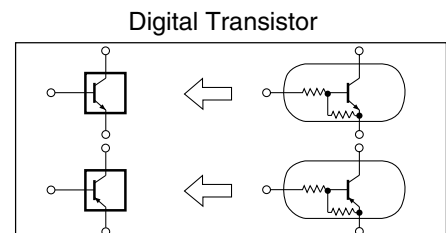
CEM --- Cement Res. MTL --- Metal Res. F --- Fuse Res.

### Capacitors and transistors are represented by the following symbols.

CBA Symbols



Schematic Diagram Symbols



## LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

**1. CAUTION:** FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE\_A,\_V FUSE.

**ATTENTION:** UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE\_A,\_V.

### 2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

If Main Fuse (F601, F2000, F2200, F2400) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

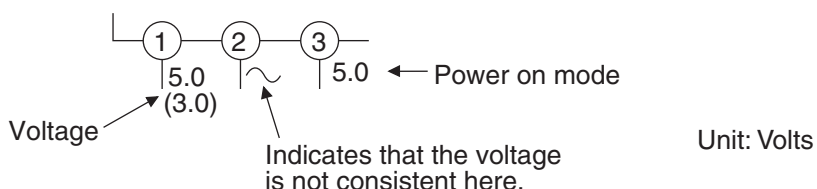
### 3. Note:

(1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.

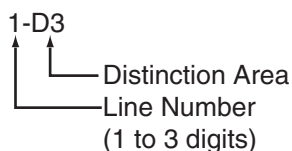
(2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

### 4. Voltage indications on the schematics are as shown below:

Plug the TV power cord into a standard AC outlet.:

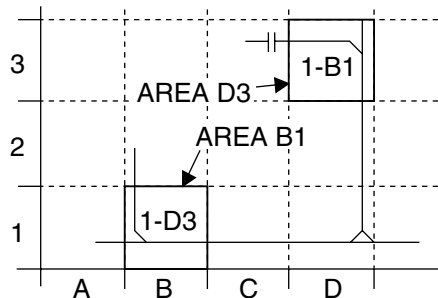


### 5. How to read converged lines



Examples:

- "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
- "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



### 6. Test Point Information

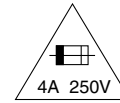
- ⊕ : Indicates a test point with a jumper wire across a hole in the PCB.
- : Used to indicate a test point with a component lead on foil side.
- ⊘ : Used to indicate a test point with no test pin.
- : Used to indicate a test point with a test pin.



# Sub Power Supply Schematic Diagram

**CAUTION !**

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F2000) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

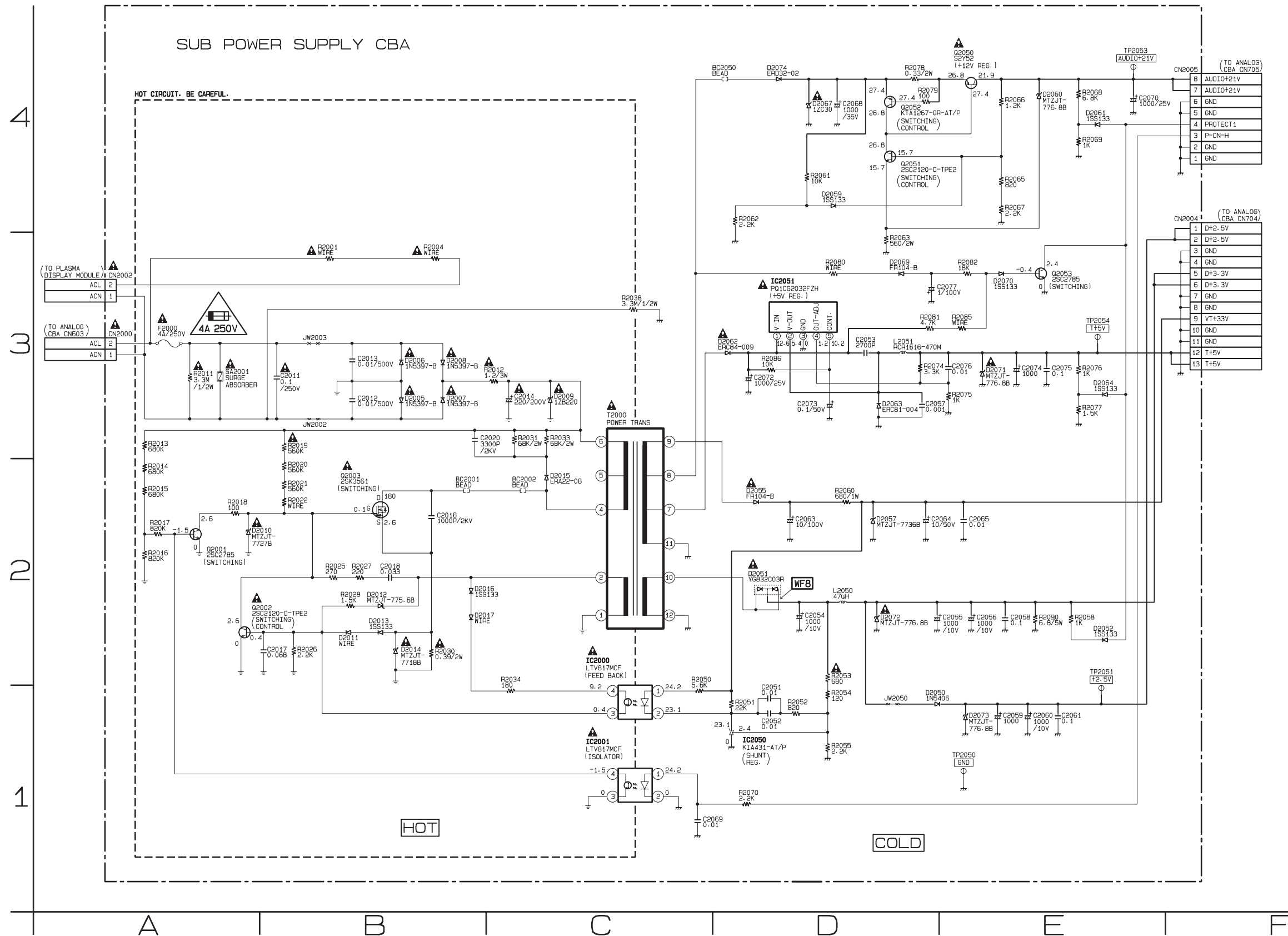


**CAUTION ! :** For continued protection against risk of fire, replace only with same type 4A, 250V fuse.

**ATTENTION :** Utiliser un fusible de rechange de même type de 4A, 250V.

**NOTE:**

The voltage for parts in hot circuit is measured using hot GND as a common terminal.



# MECHANICAL PARTS LIST

**PRODUCT SAFETY NOTE:** Products marked with a **▲** have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.


**NOTE:** Parts that are not assigned part numbers (-----) are not available.

Ref. No.	Description	Part No.
A1	STAND COVER L0700UA	1EM221142
A2	STAND L0700UA	1EM221345
A3	STAND BASE L0600UA	0EM201865
A4	RUBBER FOOT L0600UA	0EM408992
A5	JACK COVER L0700UA	1EM021190
A6▲	JACK LABEL(R) L0700UA	-----
A7▲	JACK LABEL(L) L0700UA	-----
A8▲	RATING LABEL L0703CD	-----
A9	FRONT CABINET L0700UA	1EM021196
A10	DECORATION PANEL L0700UA	1EM021197
A11	SENSOR/LED LENS L0600UA	0EM408988
A12	BRAND BADGE L5001CB	1EM423501
A13	REAR CABINET L0700UA	0EM000907A
A14	REAR COVER L0600UA	0EM408989
A15▲	AC CORD LABEL L0600UA	-----
A16	JACK HOLDER L0600UA	0EM201861
A17	SPEAKER FRONT(R) L0700UA	1EM021191
A18	SPEAKER FRONT(L) L0700UA	1EM021192
A19	SPEAKER REAR COVER(R) L0700UA	1EM021193
A20	SPEAKER REAR COVER(L) L0700UA	1EM021194
A21	SPEAKER JOINT L0700UA	1EM221141
A22	SPEAKER BRACKET L0700UA	1EM021195
A28	SW PCB HOLDER L0650UA	1EM120488
B3	EARTH LABEL L0600UA	-----
B4	PANEL HOLDER(U) L0650UA	1EM020408
B5	PANEL HOLDER(L) L0650UA	1EM020407
B6	FILTER HOLDER(L) L0650UA	1EM020467
B7	FILTER HOLDER(S) L0650UA	1EM120669
B8	PANEL HOLDER(S) L0650UA	1EM120490
B12	PCB BOX L0700UA	1EM021189
B14	CHASSIS BRACKET L0700UA	1EM020895
B15	PANEL SPACER(LG) L0702UC	1EM423844
B16	JACK BRACKET L0650UA	1EM120489A
B17	XGA-GASKET(S) L0700UA	1EM422934
B18	XGA-GASKET(L) L0700UA	1EM422933
B19	SPEAKER CUSHION(L) L0700UA	1EM423230
B21	ACOUSTIC SPONGE L0700UA	1EM422929
B22	PCB HOLDER(LG) L0702UC	1EM322326
B25	CUSHION(L) L0650UA	1EM421666A
B26	CUSHION(S) L0650UA	1EM421667A
B32	SCOTCH TAPE #880 25X45 L9710UL	0EZZ00132
B34	LABEL CRITICAL PARTS WARN ING B8007C3 EM41210	-----
B35	CLOTH L1440JL 15X55XT1.0	0EM406793
B38	CLOTH 190X15XT0.5	TS7623
B39	XGA GASKET(LG) L0702UC	1EM423923
CLN1	WIRE ASSEMBLY 17C(LVDS) 17 300 AWG32 BLUE WH	WX1L0700-014
CLN2	WIRE ASSEMBLY 8P(SUBPSU-ANALOG) WX1L0700-002	WX1L0700-002

Ref. No.	Description	Part No.
CLN3	WIRE ASSEMBLY 13P(SUBPSU-ANALOG) WX1L0700-003	WX1L0700-003
CLN4	WIRE ASSEMBLY 5C(MAIN PSU-ANALOG P 5 260 AWG28 RED BLUE	WX1L0700-015
CLN5	WIRE ASSEMBLY 8P(DIGITAL/ANALOG-SW) WX1L0700-006	WX1L0700-006
CLN6	WIRE ASSEMBLY 10P(ANALOG-SIDEJACK) WX1L0700-007	WX1L0700-007
CLN7	WIRE ASSEMBLY 2P(ANALOG-NETWORK L) WX1L0700-008	WX1L0700-008
CLN8	WIRE ASSEMBLY 2P(ANALOG-NETWORK R) WX1L0700-009	WX1L0700-009
CLN9	WIRE ASSEMBLY 2P(FULL RANGE SPEAKE) WX1L0700-010	WX1L0700-010
CLN10	WIRE ASSEMBLY 2P(TOWEETER) WX1L0700-011	WX1L0700-011
CLN11	WIRE ASSEMBLY 2P(FULL RANGE SPEAKE) WX1L0700-010	WX1L0700-010
CLN12	WIRE ASSEMBLY 2P(TOWEETER) WX1L0700-011	WX1L0700-011
CLN17	WIRE ASSEMBLY 1P(SW GND) WX1L0650-018	WX1L0650-018
CLN603	WIRE ASSEMBLY 1P WX1L0600-018	WX1L0600-018
FC1	CORE FERRITE TFT102010N	XL04024X4001
FC2	FERRITE CORE RFC-8	XL06034WD002
FL501	OPTICAL FILTER PM00UZ014	XA00000SM008
L1	SCREW P-TIGHT 3X10 BIND HEAD+	GBJP3100
L4	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
L5	DOUBLE SEMS SCREW M4X8 PAN HEAD+	0EM409074A
L7	BINDING HEAD SCREW M3X8	SBJ33080
L8	DOUBLE SEMS SCREW M3X8 PAN HEAD+	0EM409075A
L9	SCREW ASSEMBLED M3X6 BLACK	0EM409078A
L10	DOUBLE SEMS SCREW M5X16 PAN HEAD+	0EM409236A
L11	SCREW P-TIGHT D4X12 BIND HEAD+	GBJP4120
L12	DOUBLE SEMS SCREW M5X20 PAN HEAD+	0EM409077A
L14	DOUBLE SEMS SCREW M4X12 PAN HEAD+	1EM420188A
L15	SCREW M3X8 BIND HEAD+BLACK	SBH33080
L16	SCREW B-TIGHT M3X8 BIND HEAD+	GBHB3080
L17	SCREW P-TIGHT 4X12 BIND HEAD+BLK	GBHP4120
PDM501	PLASMA DISPLAY MODULE PDP42X3####	UDPUPLSGS002
SP801	SPEAKER MAGNETIC 8212 T020 1403B	DSD0405SBA01
SP802	SPEAKER MAGNETIC 8212 5712 1402B	DSD0811SBA01
SP851	SPEAKER MAGNETIC 8212 T020 1403B	DSD0405SBA01
SP852	SPEAKER MAGNETIC 8212 5712 1402B	DSD0811SBA01
<b>PACKING</b>		
S1	STYROFOAM TOP L0700UA	1EM021390
S2	STYROFOAM BOTTOM L0700UA	1EM021391
S3	SET BAG L0700UA	1EM322033
S4	CARTON(U) L0701CB	1EM322315
S5	CARTON (L) L0700UA	1EM322072
S6▲	SERIAL NO. LABEL L9750UA	-----
S7	HOLD PAD L0652UC	1EM421919
S8	LABEL EAS(H3761UD) MAKER NO.ZLLFNSLE1	-----
<b>ACCESSORIES</b>		
AC601▲	AC CORD PH8F3EDGNOA-063	WBC0192LW001
X1▲	OWNERS MANUAL L0701CB/L0703CD	1EMN22014A
X2	BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X3	REMOTE CONTROL NF009UD NF009UD	NF009UD
X4	DRY BATTERY(SUNRISE) R6SSE/2S	XB0M451MS002
X5▲	EASY SET UP GUIDE L0701CB/L0703CD	1EMN22015A



# ELECTRICAL PARTS LIST

**PRODUCT SAFETY NOTE:** Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

**NOTES:**

- Parts that are not assigned part numbers (-----) are not available.
- Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25%    D.....±0.5%    F.....±1%  
 G.....±2%    J.....±5%    K.....±10%  
 M.....±20%    N.....±30%    Z.....+80/-20%

## DIGITAL CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL CBA UNIT	1ESA13662

## ANALOG ASSEMBLY

Ref. No.	Description	Part No.
	ANALOG ASSEMBLY Consists of the following:	1ESA13660
	ANALOG CBA	-----
	JACK CBA	-----
	SWITCH CBA	-----
	NETWORK 1 CBA	-----
	NETWORK 2 CBA	-----

## ANALOG CBA

Ref. No.	Description	Part No.
	ANALOG CBA Consists of the following:	-----
<b>CAPACITORS</b>		
C402	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C405	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C408	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C411	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C415	ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7
C418	ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7
C421	ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7
C424	ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7
C451	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C452	ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C453	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C454	ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C501	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C502	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C503	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C504	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C506	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C507	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C508	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C509	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C510	ELECTROLYTIC CAP. 100µF/35V M	CE1GMASDL101
C511	ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101

Ref. No.	Description	Part No.
C512	ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C513	ELECTROLYTIC CAP. 100µF/35V M	CE1GMASDL101
C533	CERAMIC CAP.(AX) F Z 0.01µF/25V	CDA1EZT0F103
C536	ELECTROLYTIC CAP. 1000µF/6.3V M	CE0KMASDL102
C537	ELECTROLYTIC CAP. 1000µF/10V M	CE1AMASDL102
C541	ELECTROLYTIC CAP. 1000µF/10V M	CE1AMASDL102
C543	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C544	CERAMIC CAP.(AX) F Z 0.01µF/25V	CDA1EZT0F103
C547	ELECTROLYTIC CAP. 4700µF/6.3V SM	CE0KMZPDL472
C548	CERAMIC CAP.(AX) F Z 0.01µF/25V	CDA1EZT0F103
C549	ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C552	ELECTROLYTIC CAP. 1000µF/6.3V M	CE0KMASDL102
C553	ELECTROLYTIC CAP. 220µF/25V M	CE1EMASDL221
C554	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C555	ELECTROLYTIC CAP. 220µF/10V M	CE1AMASDL221
C556	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C557	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C558	ELECTROLYTIC CAP. 1000µF/6.3V M	CE0KMASDL102
C559	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C560	ELECTROLYTIC CAP. 220µF/10V M	CE1AMASDL221
C561	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C562	ELECTROLYTIC CAP. 10µF/50V M	CE1JMASDL100
C564	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C566	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C570	ELECTROLYTIC CAP. 1000µF/6.3V M	CE0KMASDL102
C572	ELECTROLYTIC CAP. 0.22µF/50V M	CE1JMASDLR22
C601▲	LINE ACROSS CAP. 1U/275V	CT2E105DC016
C603▲	SURGE ABSORBER 470V+10PER	NVQZ10D471KB
C643▲	CAP CERAMIC Y2 1000pF 250V E M	CCD2EMA0E102
C644▲	CAP CERAMIC Y2 1000pFpF 250V E M	CCD2EMA0E102
C701	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C702	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C704	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103
C705	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C706	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C708	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103
C709	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C710	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C711	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103
C712	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C714	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C715	CERAMIC CAP.(AX) B K 1000pF/50V	CCA1JKT0B102
C716	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103
C718	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C719	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C720	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103
C721	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C723	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C724	CERAMIC CAP.(AX) B K 1000pF/50V	CCA1JKT0B102
C725	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103
C727	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C728	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C729	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C730	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C732	PCB JUMPER D0.6-P5.0	JW5.0T
C733	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C734	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C736	PCB JUMPER D0.6-P5.0	JW5.0T
C737	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C738	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330

Ref. No.	Description	Part No.
C739	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C741	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C742	PCB JUMPER D0.6-P5.0	JW5.0T
C743	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C744	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C746	PCB JUMPER D0.6-P5.0	JW5.0T
C747	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C748	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C750	PCB JUMPER D0.6-P5.0	JW5.0T
C751	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C752	ELECTROLYTIC CAP. 47µF/16V M	CE1CMASDL470
C754	PCB JUMPER D0.6-P5.0	JW5.0T
C801	ELECTROLYTIC CAP. 1000µF/35V M	CE1GMZPDL102
C802	ELECTROLYTIC CAP. 1000µF/25V M	CE1EMZNDL102
C803	ELECTROLYTIC CAP. 1000µF/25V M	CE1EMZNDL102
C804	FILM CAP.(P) 0.1µF/50V J	CA1J104MS029
C805	FILM CAP.(P) 0.1µF/50V J	CA1J104MS029
C807	ELECTROLYTIC CAP. 100µF/25V M	CE1EMASDL101
C809	ELECTROLYTIC CAP. 3.3µF/50V M	CE1JMASDL3R3
C811	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101
C813	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C814	ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7
C833	FILM CAP.(P) 0.068µF/50V J	CA1J683MS029
C837	FILM CAP.(P) 0.068µF/50V J	CA1J683MS029
CONNECTORS		
CN111	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN112	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN113	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN114	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN603▲	WIRE ASSEMBLY WX1L0700-013	WX1L0700-013
CN701	CONNECTOR(WHITE) 1-292161-0	J31FC10AP001
CN703	CONNECTOR PRINT OSU C S 440054-6	J344C06AP001
CN704	CONNECTOR PRINT OSU C S 1-440054-3	J344C13AP001
CN705	CONNECTOR PRINT OSU C S 440054-8	J344C08AP001
CN707	CONNECTOR PRINT OSU C S 1-440054-0	J344C10AP001
CN801	CONNECTOR PRINT OSU C S 440052-2	J344C02AP011
CN802	CONNECTOR PRINT OSU C S 440052-2	J344C02AP011
DIODES		
D451	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D501	ZENER DIODE MTZJT-7712B	QDTB00MTZJ12
D502	RES METAL OXIDE FILM 2W J 0.82 Ω	RN02JZPZOR82
D503	RES METAL OXIDE FILM 2W J 0.82 Ω	RN02JZPZOR82
D504	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D505	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D506	ZENER DIODE MTZJT-7712B	QDTB00MTZJ12
D538	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D541	ZENER DIODE MTZJT-7733B	QDTB00MTZJ33
D543	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D544	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D545	ZENER DIODE MTZJT-773.3B	QDTB0MTZJ3R3
D546	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D548	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D553	ZENER DIODE MTZJT-7715B	QDTB00MTZJ15
D554	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D555	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D556	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D557	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D561	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D563	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D564	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D566	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D707	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133

Ref. No.	Description	Part No.
D708	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D709	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D710	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D801	PCB JUMPER D0.6-P5.0	JW5.0T
D802	PCB JUMPER D0.6-P5.0	JW5.0T
D814	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D815	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D881	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
ICS		
IC451	IC ANALOG MULTIPLEXER CD4051BNSR	NSZBA0TTY157
IC452	IC ANALOG MULTIPLEXER CD4051BNSR	NSZBA0TTY157
IC531	VOLTAGE REGULATOR PQ070XF01SZH	QSZBA0SSH054
IC532	REGULATOR IC(3.5V) PQ035ZN1HZPH	QSZBA0TSH078
IC533	REGULATOR PQ018EF01SZH	QSZBA0SSH075
IC535	IC LD1117V	NSZBA0SSS046
IC537	REGULATOR(PB FREE) PQ033EF01SZH	QSZBA0SSH060
IC801	AUDIO POWER IC AN17805A	QSZBA0SMS007
COILS		
L534	INDUCTOR 15µH-K-5FT	LLARKBSTU150
L601▲	TOROID COILS RBPF-865661	LLBG00ZKV015
L602▲	TOROID COILS RBPF-865661	LLBG00ZKV015
L603▲	TOROID COILS RBPF-865661	LLBG00ZKV015
TRANSISTORS		
Q451	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q452	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q453	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q503	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q531	TRANSISTOR KTA-1266-GR-AT/P	NQS4KTA1266P
Q536	TRANSISTOR KTA-1266-GR-AT/P	NQS4KTA1266P
Q537	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q538	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q701	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q702	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q703	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q704	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q705	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q706	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q707	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q708	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q709	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q710	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q711	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q712	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q802	TRANSISTOR 2SC2785(F)	QGSF02SC2785
Q813	TRANSISTOR KTA-1266-GR-AT/P	NQS4KTA1266P
RESISTORS		
R401	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R402	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R403	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R404	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R405	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R406	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R407	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R408	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R409	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R410	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R411	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R412	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R413	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R414	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R415	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R416	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473

Ref. No.	Description	Part No.
R417	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R418	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R419	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R420	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R421	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R422	CHIP RES. 1/10W J 47k Ω	RRXAJR5Z0473
R423	CHIP RES. 1/10W J 5.6k Ω	RRXAJR5Z0562
R424	CHIP RES. 1/10W J 6.8k Ω	RRXAJR5Z0682
R453	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R454	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R455	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R456	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R457	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R458	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R459	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R460	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R461	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R462	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R463	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R464	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R465	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R466	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R473	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R474	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R475	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R476	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R477	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R478	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R479	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R480	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R481	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R482	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R483	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R484	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R485	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R486	CHIP RES. 1/10W J 100k Ω	RRXAJR5Z0104
R488	PCB JUMPER D0.6-P5.0	JW5.0T
R491	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R492	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R493	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R494	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R495	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R496	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R497	CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R498	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R502	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R504	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R505	CHIP RES. 1/10W J 2.2k Ω	RRXAJR5Z0222
R506	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R509	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R511	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R517	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R519	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R522	PCB JUMPER D0.6-P20.0	JW20.0T
R523	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R524	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R525	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R532	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R533	CHIP RES. 1/10W F 6.8k Ω	RRXAFR5H6801
R534	PCB JUMPER D0.6-P5.0	JW5.0T
R535	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R536	CHIP RES. 1/10W F 1.1k Ω	RRXAFR5Z1101
R537	CHIP RES. 1/10W F 1.0k Ω	RRXAFR5H1001

Ref. No.	Description	Part No.
R538	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R540	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R545	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R546	CHIP RES. 1/10W J 3.9k Ω	RRXAJR5Z0392
R547	CHIP RES. 1/10W J 22k Ω	RRXAJR5Z0223
R548	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R551	CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R553	CHIP RES. 1/10W F 7.5k Ω	RRXAFR5Z7501
R554	CHIP RES. 1/10W J 4.7k Ω	RRXAJR5Z0472
R573	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R574	PCB JUMPER D0.6-P5.0	JW5.0T
R575	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R576	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R577	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R590	CARBON RES. 1/4W J 620 Ω	RCX4JATZ0621
R591	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R601▲	SOLID RES.(UL) 1/2W 3.3M Ω	RSX2335KE010
R701	CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R702	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R704	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R705	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R706	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R707	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R708	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R709	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R711	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R712	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R713	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R714	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R715	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R716	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R718	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R719	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R720	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R721	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R722	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R723	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R724	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R726	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R727	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R728	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R729	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R730	CHIP RES. 1/10W J 75 Ω	RRXAJR5Z0750
R731	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R733	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R734	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R735	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R736	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R737	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R738	CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R739	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R741	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R742	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R743	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R744	PCB JUMPER D0.6-P5.0	JW5.0T
R745	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R746	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R747	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R748	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R751	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R752	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R753	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R754	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000

Ref. No.	Description	Part No.
R755	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R756	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R759	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R760	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R761	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R762	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R763	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R764	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R767	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R768	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R769	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R770	PCB JUMPER D0.6-P5.0	JW5.0T
R771	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R772	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R775	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R776	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R777	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R778	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R779	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R780	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R783	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R784	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R785	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R786	CHIP RES.(1608) 1/10W 0 Ω	RRXAJR5Z0000
R787	CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5H75R0
R788	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
R791	CHIP RES. 1/10W J 33k Ω	RRXAJR5Z0333
R792	CHIP RES. 1/10W J 39k Ω	RRXAJR5Z0393
R793	CHIP RES. 1/10W J 390 Ω	RRXAJR5Z0391
R794	PCB JUMPER D0.6-P5.0	JW5.0T
R801	METAL OXIDE FILM RES. 2W J 0.33 Ω	RN02R33ZU001
R802	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68ZU001
R803	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R805	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R808	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R810	PCB JUMPER D0.6-P5.0	JW5.0T
R811	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R812	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R813	PCB JUMPER D0.6-P5.0	JW5.0T
R815	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R823	PCB JUMPER D0.6-P5.0	JW5.0T
R825	PCB JUMPER D0.6-P5.0	JW5.0T
R831	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R832	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R833	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R836	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R837	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R838	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R839	PCB JUMPER D0.6-P5.0	JW5.0T
R840	CARBON RES. 1/4W J 470k Ω	RCX4JATZ0474
R881	CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R882	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
<b>MISCELLANEOUS</b>		
BC151	PCB JUMPER D0.6-P5.0	JW5.0T
BC501	PCB JUMPER D0.6-P5.0	JW5.0T
BC502	PCB JUMPER D0.6-P5.0	JW5.0T
CL601▲	WIRE ASSEMBLY 1P WX1L0600-020	WX1L0600-020
CL602▲	WIRE ASSEMBLY 1P WX1L0600-019	WX1L0600-019
F601▲	FUSE 8A/250V(PB FREE) 0215008.MXP	PBGZ20BAG022
FH601	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH602	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
GP601▲	GAP. G3.10D	FAZ000LD6004

Ref. No.	Description	Part No.
JK701	JACK SW RCA PCB L MSP 226V43 01 NI LF	JYRL030LY038
JK702	Y/C JACK 1P(SW) YKF51-5586N	JYEL040JC003
JK703	5PIN JACK MSP-226V40-03 NI FE	JYRL050LY033
JK704	5PIN JACK MSP-226V40-03 NI FE	JYRL050LY033
JS801	PCB JUMPER D0.6-P5.0	JW5.0T
JS901	PCB JUMPER D0.6-P7.5	JW7.5T
JS902	PCB JUMPER D0.6-P10.0	JW10.0T
JS951	PCB JUMPER D0.6-P7.5	JW7.5T
JS952	PCB JUMPER D0.6-P10.0	JW10.0T
PB-1	HEAT SINK (PJH) ASSEMBLY L0600UZ	OEM409007A
SA601▲	SURGE ABSORBER 470V+-10PER	NVQZ10D471KB

## JACK CBA

Ref. No.	Description	Part No.
	JACK CBA Consists of the following:	-----
<b>CONNECTOR</b>		
CN702	CONNECTOR PRINT OSU C R 1-292253-0	J31FC10AP006
<b>MISCELLANEOUS</b>		
JK705	RCA JACK AV1-06-022 WHITE	JXRJ010RP011
JK706	RCA JACK AV1-06-023 RED	JYRJ010RP002
JK707	RCA JACK AV1-06-021 YELLOW	JXRJ010RP010
JK708	Y/C JACK YKF51-5646N	JYEJ040JC001

## SWITCH CBA

Ref. No.	Description	Part No.
	SWITCH CBA Consists of the following:	-----
<b>CAPACITORS</b>		
C101	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C103	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C104	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C151	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C152	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C153	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C154	CHIP CERAMIC CAP. F Z 0.01μF/50V	CHD1JZ30F103
C155	ELECTROLYTIC CAP. 47μF/10V M H7	CE1AMASSM470
<b>CONNECTOR</b>		
CN151	CONNECTOR PRINT OSU C R 440055-8	J344C08AP006
<b>DIODES</b>		
D151	LED 333GT/E	NPHZ00333GTE
D152	LED L-53HT	NP4Z000L53HT
<b>RESISTORS</b>		
R101	PCB JUMPER D0.6-P5.0	JW5.0T
R102	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R105	CHIP RES. 1/10W J 2.4k Ω	RRXAJR5Z0242
R106	CHIP RES. 1/10W J 4.3k Ω	RRXAJR5Z0432
R107	CHIP RES. 1/10W J 8.2k Ω	RRXAJR5Z0822
R108	CHIP RES. 1/10W J 24k Ω	RRXAJR5Z0243
R116	PCB JUMPER D0.6-P5.0	JW5.0T
R117	CHIP RES. 1/10W J 2.4k Ω	RRXAJR5Z0242
R118	CHIP RES. 1/10W J 10k Ω	RRXAJR5Z0103
R151	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R152	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R153	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R154	CHIP RES. 1/10W J 3.3k Ω	RRXAJR5Z0332
R155	CHIP RES. 1/10W J 100 Ω	RRXAJR5Z0101
<b>SWITCHES</b>		
SW102	TACT SWITCH SKQSAB	SST0101AL038
SW103	TACT SWITCH SKQSAB	SST0101AL038
SW104	TACT SWITCH SKQSAB	SST0101AL038

Ref. No.	Description	Part No.
SW105	TACT SWITCH SKQSAB	SST0101AL038
SW114	TACT SWITCH SKQSAB	SST0101AL038
SW115	TACT SWITCH SKQSAB	SST0101AL038
SW121	TACT SWITCH SKHHLMA010	SST0101AL049
<b>MISCELLANEOUS</b>		
BC152	PCB JUMPER D0.6-P5.0	JW5.0T
RCV151	PHOTO LINK MODULE KSM-712TH2E	USESJRSKK044

## NETWORK 1 CBA

Ref. No.	Description	Part No.
	NETWORK 1 CBA Consists of the following:	-----
<b>CAPACITORS</b>		
C901	METALIZED POLYESTER FILM CAP. 2.2 $\mu$ F/50V J	CT1J225DT040
C902	METALIZED POLYESTER FILM CAP. 2.2 $\mu$ F/50V J	CT1J225DT040
<b>CONNECTORS</b>		
CN901	CONNECTOR PRINT OSU C S 440052-2	J344C02AP011
CN902	CONNECTOR PRINT OSU 2P 292161-2	J31FC02AP001
CN903	CONNECTOR PRINT OSU C S 440052-3	J344C03AP011
<b>COILS</b>		
L901	COIL CHOKE ELC12D122E	LLF1220MS001
L902	COIL CHOKE ELC10D221EL	LLC221KMS003

## NETWORK 2 CBA

Ref. No.	Description	Part No.
	NETWORK 2 CBA Consists of the following:	-----
<b>CAPACITORS</b>		
C951	METALIZED POLYESTER FILM CAP. 2.2 $\mu$ F/50V J	CT1J225DT040
C952	METALIZED POLYESTER FILM CAP. 2.2 $\mu$ F/50V J	CT1J225DT040
<b>CONNECTORS</b>		
CN951	CONNECTOR PRINT OSU C S 440052-2	J344C02AP011
CN952	CONNECTOR PRINT OSU 2P 292161-2	J31FC02AP001
CN953	CONNECTOR PRINT OSU C S 440052-3	J344C03AP011
<b>COILS</b>		
L951	COIL CHOKE ELC12D122E	LLF1220MS001
L952	COIL CHOKE ELC10D221EL	LLC221KMS003

## SUB POWER SUPPLY CBA

Ref. No.	Description	Part No.
	SUB POWER SUPPLY CBA Consists of the following:	1ESA13664
<b>CAPACITORS</b>		
C2011▲	METALIZED FILM CAP. 0.1 $\mu$ F/250V	CT2E104MS037
C2012	CERAMIC CAP. F Z 0.01 $\mu$ F/500V	CCD2JZD0F103
C2013	CERAMIC CAP. F Z 0.01 $\mu$ F/500V	CCD2JZD0F103
C2014▲	ELECTROLYTIC CAP. 220 $\mu$ F/200V M	CE2DMZNTJ221
C2016	CERAMIC CAP. R K 1000pF/2KV	CCD3DKA0R102
C2017	FILM CAP.(P) 0.068 $\mu$ F/50V J	CA1J683MS029
C2018	FILM CAP.(P) 0.033 $\mu$ F/50V J	CA1J333MS029
C2020	CAP CERAMIC HV 3300pF 2KV R K	CCD3DKA0R332
C2051	CERAMIC CAP.(AX) B K 0.01 $\mu$ F/50V	CA1J103TU011
C2052	CERAMIC CAP.(AX) B K 0.01 $\mu$ F/50V	CA1J103TU011
C2053	FILM CAP.(P) 0.0027 $\mu$ F/50V J	CA1J272MS029
C2054	CAP ELE SML-105 1000 $\mu$ F/10V M	CE1AMASTJ102
C2055	CAP ELE SML-105 1000 $\mu$ F/10V M	CE1AMASTJ102
C2056	CAP ELE SML-105 1000 $\mu$ F/10V M	CE1AMASTJ102
C2057	FILM CAP.(P) 0.001 $\mu$ F/50V J	CA1J102MS029

Ref. No.	Description	Part No.
C2058	CERAMIC CAP.(AX) F 0.1 $\mu$ F/50V	CCK1JZT0F104
C2059	CAP ELE SML-105 1000 $\mu$ F/10V M	CE1AMASTJ102
C2060	CAP ELE SML-105 1000 $\mu$ F/10V M	CE1AMASTJ102
C2061	CERAMIC CAP.(AX) F 0.1 $\mu$ F/50V	CCK1JZT0F104
C2063	ELECTROLYTIC CAP. 10 $\mu$ F/100V M	CE2AMASTJ100
C2064	ELECTROLYTIC CAP. 10 $\mu$ F/50V M	CE1JMASTJ100
C2065	CERAMIC CAP.(AX) B K 0.01 $\mu$ F/50V	CCA1JKT0B103
C2068	ELECTROLYTIC CAP 1000 $\mu$ F/35V	CE1GMZNTJ102
C2069	CERAMIC CAP.(AX) F Z 0.01 $\mu$ F/25V	CCA1EZTFZ103
C2070	ELECTROLYTIC CAP. 1000 $\mu$ F/25V M	CE1EMZNTJ102
C2072	ELECTROLYTIC CAP. 1000 $\mu$ F/25V M	CE1EMZNTJ102
C2073	ELECTROLYTIC CAP. 0.1 $\mu$ F/50V M	CE1JMASTJR10
C2074	CAP ELE SML-105 1000 $\mu$ F/10V M	CE1AMASTJ102
C2075	CERAMIC CAP.(AX) F 0.1 $\mu$ F/50V	CCK1JZT0F104
C2076	FILM CAP.(P) 0.01 $\mu$ F/50V J	CA1J103MS029
C2077	CAP ELE SML-105 1 $\mu$ F/100V M	CE2AMASTJ1R0
<b>CONNECTORS</b>		
CN2000▲	CONNECTOR PRINT OSU C S 1-1123724-2	J311C02AP001
CN2002	WIRE ASSEMBLY 2C(SUB PSU - MAIN PS 2 110 AWG18 BLACK WH	WX1L0700-017
CN2004	CONNECTOR PRINT OSU C S 1-440054-3	J344C13AP001
CN2005	CONNECTOR PRINT OSU C S 440054-8	J344C08AP001
<b>DIODES</b>		
D2005▲	DIODE 1N5397-B	NDLZ001N5397
D2006▲	DIODE 1N5397-B	NDLZ001N5397
D2007▲	DIODE 1N5397-B	NDLZ001N5397
D2008▲	DIODE 1N5397-B	NDLZ001N5397
D2009▲	DIODE ZENER 1ZB220(Q)	QDLZ01ZB220Q
D2010▲	ZENER DIODE MTZJT-7727B	QDTB00MTZJ27
D2011	PCB JUMPER D0.6-P5.0	JW5.0T
D2012	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D2013	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D2014▲	ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D2015	DIODE RECTIFIER ERA22-08	AERA2208V3**
D2016	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D2017	PCB JUMPER D0.6-P5.0	JW5.0T
D2050	DIODE 1N5406	NDLZ001N5406
D2051▲	SCHOTTKY BARRIER DIODE YG832C03R	QDLWZG832C03R
D2052	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D2055▲	DIODE FR104-B	NDLZ000FR104
D2057	ZENER DIODE MTZJT-7736B	QDTB00MTZJ36
D2059	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D2060	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D2061	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D2062▲	SCHOTTKY BARRIER DIODE ERC84-009	QDLZERC84009
D2063	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D2064	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D2067▲	DIODE 1ZC30(Q)	QDLZ001ZC30Q
D2069	DIODE FR104-B	NDLZ000FR104
D2070	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D2071▲	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D2072▲	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D2073	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D2074	FAST RECOVERY DIODE ERD32-02	QDWZ0ERD3202
<b>ICS</b>		
IC2000▲	PHOTO COUPLER LTV817MCF	NPECLTV817MF
IC2001▲	PHOTO COUPLER LTV817MCF	NPECLTV817MF
IC2050	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
IC2051▲	REGULATOR PQ1CG2032FZH	QSZBA0SSH071
<b>COILS</b>		
L2050	PCB JUMPER D0.6-P5.0	JW5.0T
L2051	POWER INDUCTOR RCR1616-470M	LLC470MSF009

Ref. No.	Description	Part No.
<b>TRANSISTORS</b>		
Q2001	TRANSISTOR 2SC2785(F)	QQSF02SC2785
Q2002▲	TRANSISTOR 2SC2120-O-TPE2	QQS002SC2120
Q2003▲	FET MOS 2SK3561(Q) IDSS100UA	QFWZ2SK3561Q
Q2050▲	TRANSISTOR S2Y52(FUNAI Q H)	QQWZ00S2Y52Q
Q2051	TRANSISTOR 2SC2120-O-TPE2	QQS002SC2120
Q2052	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q2053	TRANSISTOR 2SC2785(F)	QQSF02SC2785
<b>RESISTORS</b>		
R2001▲	PCB JUMPER D0.6-P5.0	JW5.0T
R2004▲	PCB JUMPER D0.6-P5.0	JW5.0T
R2011▲	SOLID RES.(UL) 1/2W 3.3M Ω	RSX2335KE010
R2012▲	CEMENT RES. 3W K 1.2 Ω	RW031R2PG007
R2013	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R2014	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R2015	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R2016	CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R2017	CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R2018	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R2019▲	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R2020	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R2021	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R2022	PCB JUMPER D0.6-P5.0	JW5.0T
R2025	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R2026	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R2027	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R2028	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R2030▲	METAL OXIDE FILM RES. 2W J 0.39 Ω	RN02R39ZU001
R2031	METAL OXIDE FILM RES. 2W J 68k Ω	RN02683ZU001
R2033	METAL OXIDE FILM RES. 2W J 68k Ω	RN02683ZU001
R2034	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R2038	SOLID RES.(UL) 1/2W 3.3M Ω	RSX2335KE010
R2050	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R2051	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R2052	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R2053▲	METALIZED FILM RES. 1/4W F 680 Ω	RMX4FATH6800
R2054	MATALIZED FILM RES. 1/4W F 120 Ω	RMX4FATH1200
R2055	METALIZED FILM RES. 1/4W F 2.2k Ω	RMX4FATH2201
R2058	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R2060	METAL OXIDE FILM RES. 1W J 680 Ω	RN01681ZU001
R2061	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R2062	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R2063	METAL OXIDE FILM RES. 2W J 560 Ω	RN02561ZU001
R2065	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R2066	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R2067	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R2068	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R2069	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R2070	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R2074	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R2075	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R2076	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R2077	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R2078	METAL OXIDE FILM RES. 2W J 0.33 Ω	RN02R33ZU001
R2079	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R2080	PCB JUMPER D0.6-P5.0	JW5.0T
R2081	METAL FILM RES. 1/4W F 4.7k Ω	RMX4FATH4701
R2082	RES METALIZED FILM 1/4W F 18k Ω	RMX4FATH1802
R2085	PCB JUMPER D0.6-P5.0	JW5.0T
R2086	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R2090	CEMENT RESISTOR 5W J 6.8 Ω	RW056R8PAK10
<b>MISCELLANEOUS</b>		

Ref. No.	Description	Part No.
BC2001	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC2002	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC2050	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
F2000▲	FUSE 4A/250V(PB FREE) 0215004.MXP	PBGZ20BAG021
FH2000	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH2001	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
JW2002	PCB JUMPER D0.6-P12.5	JW12.5T
JW2003	PCB JUMPER D0.6-P12.5	JW12.5T
JW2050	PCB JUMPER D0.6-P15.0	JW15.0T
PB-5	HEAT SINK PLT ASSEMBLY L0700UZ	1EM423290
PB-6	HEAT SINK PLU ASSEMBLY L0700UZ	1EM423288
PB-7	HEAT SINK PKH ASSEMBLY L3201UB	1EM420648
SA2001▲	SURGE ABSORBER 470V+10PER	NVQZ10D471KB
T2000▲	TRANS POWER 6725	LTT2PCOKT009
TP2050	PCB JUMPER D0.6-P10.0	JW10.0T
TP2051	PCB JUMPER D0.6-P10.0	JW10.0T
TP2053	PCB JUMPER D0.6-P10.0	JW10.0T
TP2054	PCB JUMPER D0.6-P10.0	JW10.0T

# **PLASMA DISPLAY MODULE SECTION**

## **42" DIGITAL/ANALOG PLASMA DISPLAY TV**

### **CIWP4206 A**

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# SAFETY PRECAUTIONS

When using/handling this PDP Module, pay attention to the below warning and cautions.

## **Warning**

Indicates a hazard that may lead to death or injury if the warning is ignored and the product is handled incorrectly.

## **Caution**

Indicates a hazard that can lead to injury or damage to property if the caution is ignored and the product is handled incorrectly.

## 1. WARNING

- (1) Do not touch Signal and Power Connector while this product operates.  
Do not touch EMI ground part and Heat Sink of Film Filter.
- (2) Do not supply a voltage higher than that specified to this product. This may damage the product and may cause a fire.
- (3) Do not use this product in locations where the humidity is extremely high, where it may be splashed with water, or where flammable materials surround it.  
Do not install or use the product in a location that does not satisfy the specified environmental conditions. This may damage the product and may cause a fire.
- (4) If a foreign substance (such as water, metal, or liquid) gets inside the product, immediately turn off the power.  
Continuing to use the product, it may cause fire or electric shock.
- (5) If the product emits smoke, and abnormal smell, or makes an abnormal sound, immediately turn off the power.  
Continuing to use the product, it may cause fire or electric shock.
- (6) Do not disconnect or connect the connector while power to the product is on. It takes some time for the voltage to drop to a sufficiently low level after the power has been turned off.  
Confirm that the voltage has dropped to a safe level before disconnecting or connecting the connector.
- (7) Do not pull out or insert the power cable from/to an outlet with wet hands. It may cause electric shock.
- (8) Do not damage or modify the power cable. It may cause fire or electric shock.
- (9) If the power cable is damaged, or if the connector is loose, do not use the product : otherwise, this can lead to fire or electric shock.

(10) If the power connector or the connector of the power cable becomes dirty or dusty, wipe it with a dry cloth. Otherwise, this can lead to fire.

(11) PDP Module uses a high voltage (Max.450V dc). Keep the cautions concerning electric shock and do not touch the Device circuitry when handling the PDP Unit. And because the capacitor of the Device circuitry may remain charged at the moment of Power OFF, standing by for 1 minute is required in order to touch the Device circuitry.

## 2. CAUTIONS

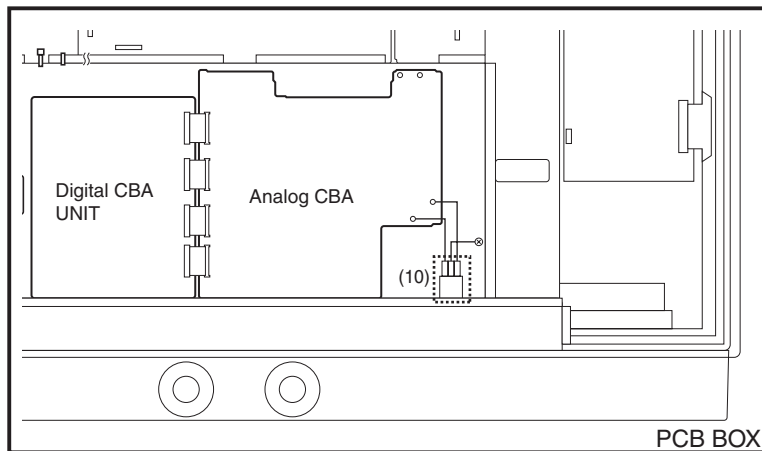
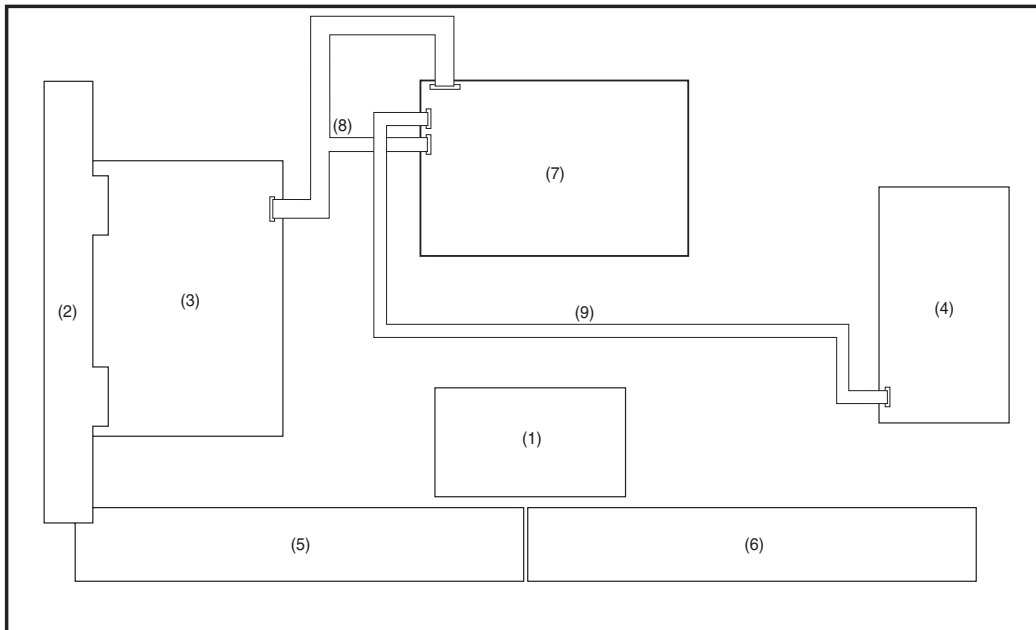
- (1) Do not place this product in a location that is subject to heavy vibration, or on an unstable surface such as an inclined surface. The product may fall off or fall over, causing injuries.
- (2) Before disconnecting cable from the product, be sure to turn off the power. Be sure to hold the connector when disconnecting cables. Pulling a cable with excessive force may cause the core of the cable to be exposed or break the cable, and this can lead to fire or electric shock.
- (3) This product should be moved by two or more persons. If one person attempts to carry this product alone, he/she may be injured.
- (4) This product contains glass. The glass may break, causing injuries, if shock, vibration, heat, or distortion is applied to the product.
- (5) The temperature of the glass of the display may rise to 80°C or more depending on the conditions of use.  
If you touch the glass inadvertently, you may be burned.
- (6) If glass surface of the display breaks or is scratched, do not touch the broken pieces or the scratches with bare hands. You may be injured.
- (7) PDP Module requires to be handled with care not to be touched with metal or hard materials, and must not be stressed by heat or mechanical impact.
- (8) There are some exposed components on the rear panel of this product. Touching these components may cause an electric shock.
- (9) When moving the product, be sure to turn off the power and disconnect all the cables. While moving the product, watch your step. The product may be dropped or fallen, leading to injuries or electric shock.
- (10) In order to protect static electricity due to C-MOS circuitry of the Drive part, wear a wrist band to protect static electricity when handling.



- (11) If cleaning the Panel, wipe it with a soft cloth moistened with water or a neutral detergent and squeezed, being careful not to touch the connector part of the Panel. And don't use chemical materials like thinner or benzene.
- (12) If this product is used as a display board to display a static image, "image sticking" occurs. This means that the luminance of areas of the display that remain lit for a long time drops compared with luminance of areas that are lit for a shorter time, causing uneven luminance across the display.  
The degree to which this occurs is in proportion to the luminance at which the display is used. To prevent this phenomenon, therefore, avoid static images as much as possible and design your system so that it is used at a low luminance, by reducing signal level difference between bright area and less bright area through signal processing.
- (13) Because PDP Module emits heat from the Glass Panel part and the Drive circuitry, the environmental temperature must not be over 40°C.  
The temperature of the Glass Panel part is especially high owing to heat from internal Drive circuitry. And because the PDP Module is driven by high voltage, it must avoid conductive materials.
- (14) If inserting components or circuit board in order to repair, be sure to fix a lead line to the connector before soldering.
- (15) If inserting high-power resistor (metal-oxide film resistor or metal film resistor) in order to repair, insert it as 10mm away as from a board.
- (16) During repairs, high voltage or high temperature components must be put away from a lead line.
- (17) This is a Cold Chassis but you had better use a cold transformer for safety during repairs. If repairing electricity source part, you must use the cold transformer.
- (18) Do not place an object on the glass surface of the display.  
The glass may break or be scratched.
- (19) This product may be damaged if it is subject to excessive stresses (such as excessive voltage, current, or temperature). The absolute maximum ratings specify the limits of these stresses.
- (20) The recommended operating conditions are conditions in which the normal operation of this product is guaranteed. All the rated values of the electrical specifications are guaranteed within these conditions.  
Always use the product within the range of the recommended operating conditions. Otherwise, the reliability of the product may be degraded.
- (21) This product has a glass display surface.  
Design your system so that excessive shock and load are not applied to the glass. Exercise care that the vent at the corner of the glass panel is not damaged.  
If the glass panel or vent is damaged, the product is inoperable.
- (22) Do not cover or wrap the product with a cloth or other covering while power is supplied to the product.
- (23) Before turning on power to the product, check the wiring of the product and confirm that the supply voltage is within the rated voltage range. If the wiring is wrong or if a voltage outside the rated range is applied, the product may malfunction or be damaged.
- (24) Do not store this product in a location where temperature and humidity are high. This may cause the product to malfunction. Because this product uses a discharge phenomenon, it may take time to light (operation may be delayed) when the product is used after it has been stored for a long time. In this case, it is recommended to light all cells for about 2 hours (aging).
- (25) This product is made from various materials such as glass, metal, and plastic. When discarding it, be sure to contact a professional waste disposal operator.
- (26) Use of the product with a combination of parameters, conditions, or logic not specified in the specifications of this product is not guaranteed. If intending to use the product in such a way, be sure to consult LGE in advance.
- (27) In assembling Module into SET, in case Film Filter and as a protective film is bared, static electricity of exfoliated protective film which is bared from beginning X-Board down ward getting TCP to no getting TCP should not influence on TCP. Also Filter after protective film is bared or in the storage can be charged with electricity, so the EMI ground part of Film Filter should be used after Grounding.

# CBA STRUCTURE & PARTS LIST

## Layout of Assemblies



Location	Part Name	Part No.
(1)	CTRL B/D ASSY	1ESA13971
(2)	Y DRV B/D ASSY	1ESA13972
(3)	Y SUS B/D ASSY	1ESA13976
(4)	Z SUS B/D ASSY	1ESA13975
(5)	X LEFT B/D ASSY	1ESA13973
(6)	X RIGHT B/D ASSY	1ESA13974
(7)	SANKEN PSU	1ESA13978
(8)	POWER CABLE PSU TO Y SUS	1ESA13979
(9)	POWER CABLE PSU TO Z SUS	1ESA13980
(10)	COM. NOISE FILTER DIT	1ESA13977


# TROUBLE SHOOTING GUIDE

## 1. Display Section

The screen is not displayed correctly.


Input video signal.

1/2 or 1/4 part of screen is displayed.



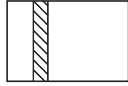
Yes → Check the power connector of X B/D, corresponding to the failure part.  
 ↓ NG  
 Check the connector between CTRL B/D and X B/D, corresponding to the failure part.  
 ↓ NG  
 Replace the corresponding X B/D.

A part of screen is displayed partially because of Data TCP failures.




Yes → Replace the cable between CTRL B/D and X B/D, or replace the CTRL B/D.  
 ↓ NG  
 Check the Data TCP failures, corresponding to the failure part.  
 If no defects, connect TCP again.  
 ↓ NG  
 Replace the Module, corresponding to the failure part.

When unusual pattern line shape or dot shape is displayed for 1 IC amount within a TCP.




Yes → Tighten the screen of the X B/D.  
 ↓ NG  
 Replace the X B/D.  
 ↓ NG  
 Check the connection of Data TCP connector.  
 ↓ NG  
 Replace the corresponding X B/D or CTRL B/D.

When unusual pattern is displayed about per data TCP IC through out.

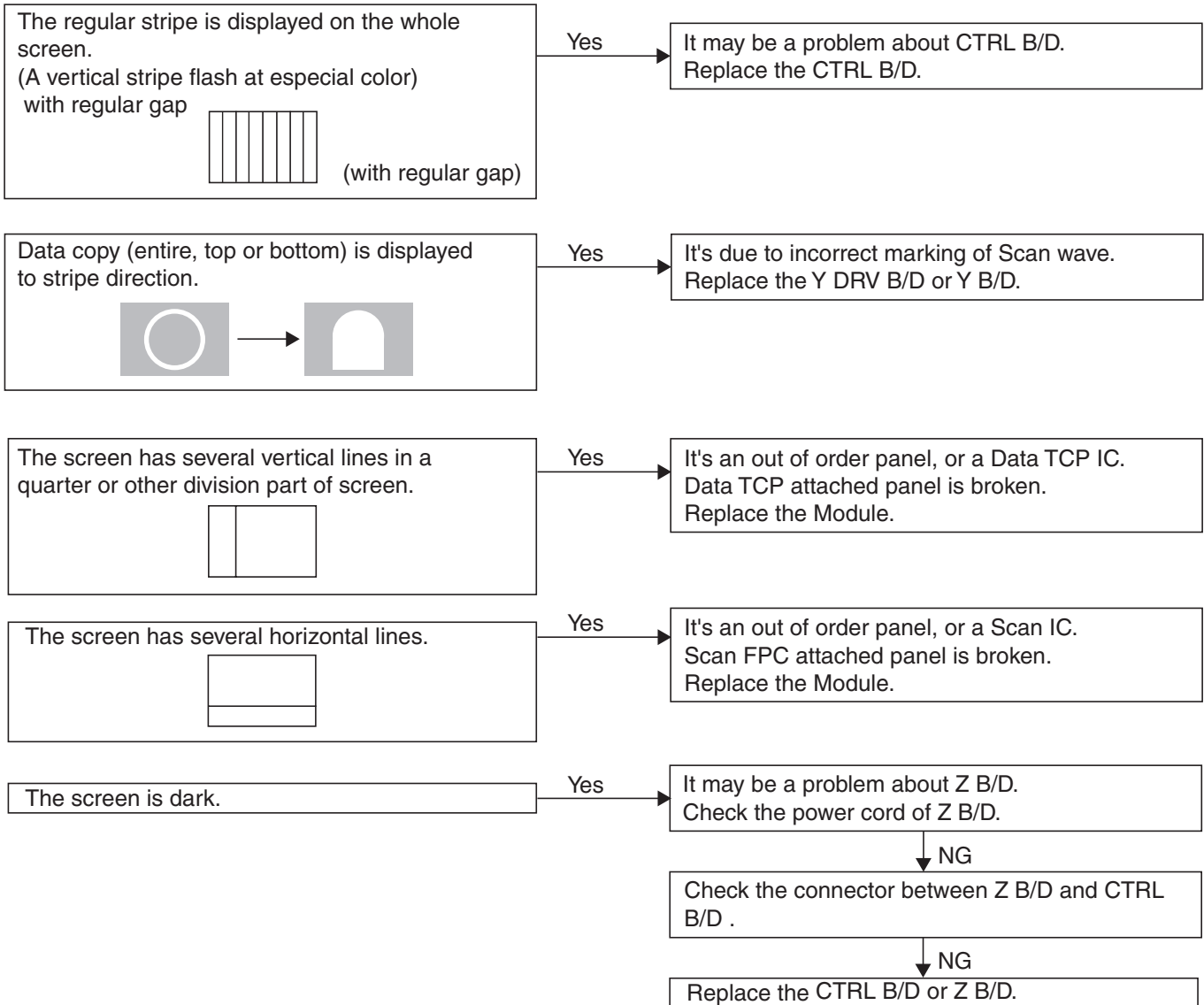


Yes → Check the connection of CTRL B/D to X B/D.  
 ↓ NG  
 Replace the X B/D or CTRL B/D.

The Bar (display is poor) or dot circle is displayed because of Scan FPC.



Yes → It may be a problem between Scan FPC and Y DRV B/D.  
 Check the connection of Y DRV B/D and Scan FPC.  
 ↓ NG  
 Scan IC is failed, replace the Y DRV B/D.



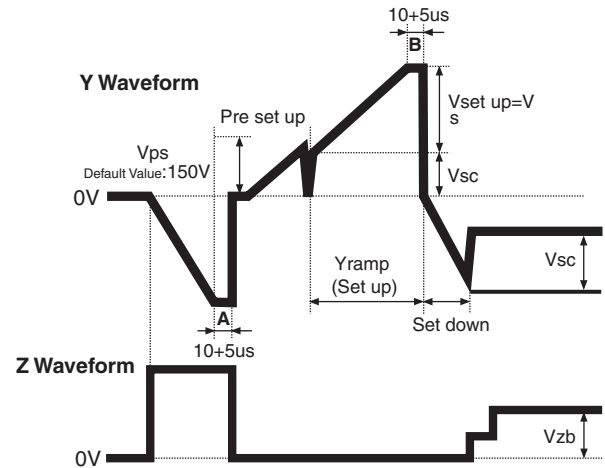
The screen has other color partially on white screen.  
Or,  
The screen has mis-discharge partially on black screen.

Yes

Check the declination of Y B/D set up, set down wave.

NG

Measure each output wave with oscilloscope (more than 200MHz) and compare the data with below figure data. The slope of set up in B/D is VR3, The slope of set down is VR2, The voltage of -Vy and Vscan is respectively PS101 and PS102 for three, Vz of Z B/D adjust as indicated in Label by making Z B/D of Waveform variable.  
-Measuring Point of Y B/D : Waveform on Y DRV B/D  
-Measuring Point of Z B/D : B28



The set value of above A and B can be adjusted with in the variable range considering the mass production capability because it is a Typ. Value.

The specified brightness is not displayed at specified color.

Yes

Check the connector of CTRL B/D input signal.

NG

Replace the CTRL B/D.

# ADJUSTMENT PROCEDURE

## DRIVER SET-UP

### Item / Preparation

1. Input an APL 100% white signal.

### Adjustments

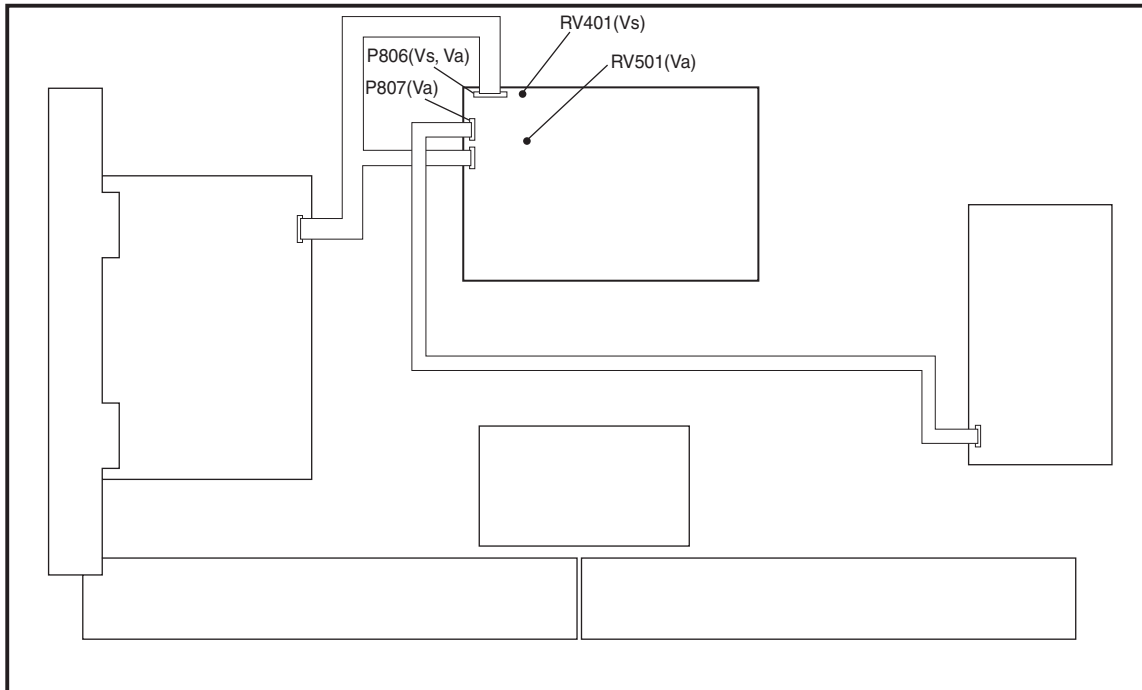
Adjust driver section voltages as shown below.

Name	Test Point	Voltage	Volume	Remarks
Vs	P806	180v	RV401	See the Voltage label
Va	P806, P807	60V	RV501	See the Voltage label
Vcc	-	5V	-	-

### Voltage Label information

MODEL : PDP42X3####  
All Voltage : DC(---) 5.2V  
Va : 60V Vs : 180V  
180 / -200 / 120 / N\_A / 100  
Max Watt : 330W(Full White)

### Adjustment Volume and Test Point Location



# CBA EXCHANGE

## Caution

1. To remove CBA, wait 1 minute after power is off for discharge from electrolysis capacitors.

## Quick adjustment after CBA exchange.

CBA	Name	Test Point	Voltage	Volume	Remarks
Y SUS B/D ASSY	-Vy	-Vy TP(Y SUS)	$-200V \pm 0.5V$	-Vy DD _pack (PS101)	
	Vscan	Vsc TP(Y SUS)	$120V \pm 0.5V$	Vscan DD _pack (PS102)	
Z SUS B/D ASSY	Vzb	Frame GND Vzbias point(Q18 Drain)	$100V \pm 0.5V$	VR1	
CTRL B/D ASSY	-	-	-	-	Adjustment is not required
Y DRV B/D ASSY	-	-	-	-	Adjustment is not required
X LEFT B/D ASSY	-	-	-	-	Adjustment is not required
X RIGHT B/D ASSY	-	-	-	-	Adjustment is not required

## Adjustment Volume and Test Point Location

