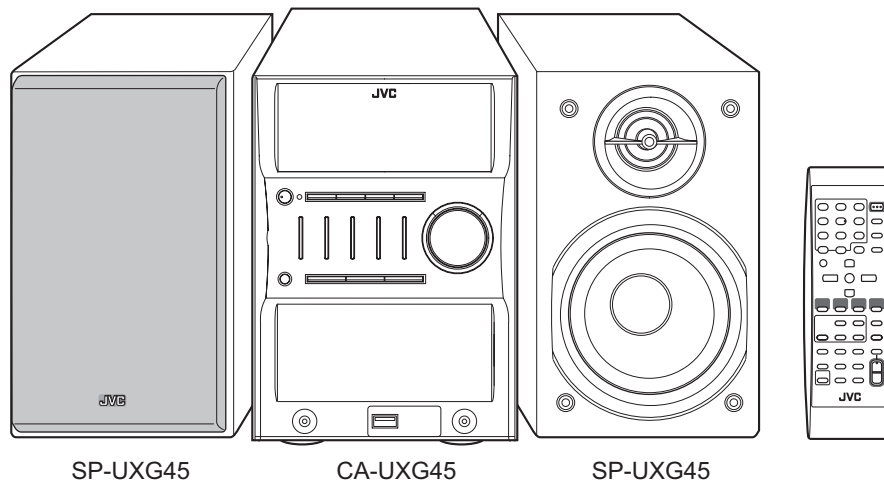


JVC

SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX-G45B, UX-G45E, UX-G45EN, UX-G45EV



COMPACT
disc
DIGITAL AUDIO

MP3
PLAYBACK

Radio Data System

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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SPECIFICATION

Amplifier section	Output Power		80 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion. (IEC268-3)
	Speakers/Impedance		6 Ω - 16 Ω
	Audio Input	AUX (Input sensitivity/Impedance)	LEVEL1 : 150 mV/47 k Ω LEVEL2 : 500 mV/47 k Ω
		USB	Ver.1.1
Tuner section	FM tuning range		87.50 MHz - 108.00 MHz
	AM (MW) tuning range		522 kHz - 1 629 kHz
CD player section	Dynamic range		85 dB
	Signal-to-noise ratio		85 dB
	Wow and flutter		Immeasurable
General	Power requirement		AC 230 V , 50 Hz
	Power consumption		145 W (at operation) 20 W (on standby) 0.9 W (standby and on Display off)
	Dimensions (approx.)		175 mm $\times$ 246 mm $\times$ 415 mm (W/H/D)
	Mass (approx.)		6.2 kg
Speakers	Type		2-way Bass reflex
	Speaker units	Woofer	12 cm cone $\times$ 1
		Tweeter	4 cm cone $\times$ 1
	Impedance		6 Ω
	Dimensions (approx.)		145 mm $\times$ 246 mm $\times$ 212 mm (W/H/D)
	Mass (approx.)		2.2 kg each

Design and specifications are subject to change without notice.

SECTION 1

PRECAUTIONS

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

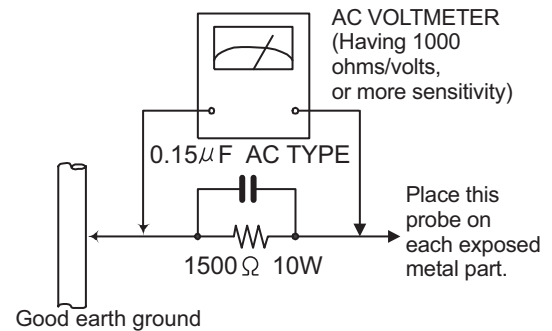
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

- (1) This equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.

Therefore, pay attention to such burrs in the case of pre-forming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor ($\blacksquare$), diode ($\blacktriangle$) and ICP ($\bullet$) or identified by the " Δ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.

(This regulation dose not Except the J and C version)

1.5 Safety Precautions (U.K only)

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
- (2) Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
- (3) Essential safety critical components are identified by () on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

1.5.1 Warning

- (1) Service should be performed by qualified personnel only.
- (2) This equipment has been designed and manufactured to meet international safety standards.
- (3) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (4) Repairs must be made in accordance with the relevant safety standards.
- (5) It is essential that safety critical components are replaced by approved parts.
- (6) If mains voltage selector is provided, check setting for local voltage.



CAUTION Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.6 Important for laser products

1.CLASS 1 LASER PRODUCT

2.CAUTION :

(For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
(Others) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

3.CAUTION : Visible and/or invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

4.CAUTION : This laser product uses visible and/or invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

(For U.S.A.)

CAUTION : Visible and/or invisible class II laser radiation when open. Do not stare into beam.

(Others)

CAUTION : Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments

ACHTUNG: Sichtbare und/oder unsichtbare Laserstrahlung der Klasse 1M bei offenen Abdeckungen. Nicht direkt mit optischen Instrumenten betrachten.

ATTENTION: Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

VOORZICHTIG: Zichtbare en/of onzichtbare klasse 1M laserstralen indien geopend. Bekijk niet direct met optische instrumenten.

ATTENZIONE: Radiazione laser in classe 1M visibile e/o invisibile quando aperto. Non osservare direttamente con strumenti ottici.

VARNING: Synlig och/eller osynlig laserstrålning, klass 1M, när denna del är öppnad. Betrakta ej strålen med optiska instrument.

VARO! Avattaessa olet alttiina näkyvälle ja/tai näkymättömälle luokan 1M lasersäteilylle. Älä tarkastele sitä optisen laitteen läpi.

ADVARSEL: Synlig og/eller usynlig klasse 1M-laserstråling ved åbning. Se ikke direkte med optiske instrumenter.

AVISO: Radiación láser de clase 1M visible y/o invisible cuando está abierto. No mirar directamente con instrumental óptico.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.



CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

ПРЕДУПРЕЖДЕНИЕ: В открытом состоянии происходит видимое и/или невидимое излучение лазера класса 1M. Не смотрите непосредственно в оптические инструменты.

UWAGA: Otwarcie spowoduje narażenie na widzialne i/lub niewidzialne promieniowanie lasera klasy 1M. Nie patrzeć bezpośrednio w przyrządy optyczne.

UPOZORNĚNÍ: Při otevření vydává viditelné popř. neviditelné laserové ozáření třídy 1M. Nedívejte se do otvoru přímo s optickými nástroji.

FIGYELMEZTETÉS: Látható és/vagy láthatatlan 1M osztályú sugárzás nyitott állapotban. Ne nézze közvetlenül optikai műszerekkel.

注意：打開蓋板可能會產生可見或不可見的 1M 級鐳射。不要使用光學儀器直接進行窺視。

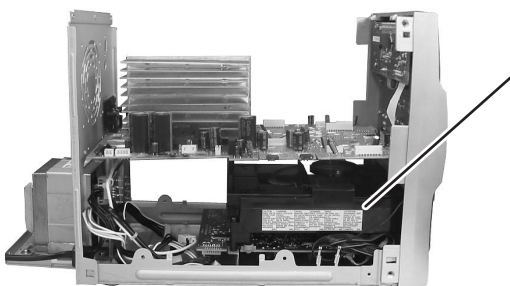
注意：打开盖板可能会产生可见或不可见的 1M 级辐射。不要使用光学仪器直接进行窥视。

تنبيه: يوجد إشعاع ليزري مرئي و/أو غير مرئي من الفئة 1M عندما يكون الجهاز مفتوحاً. تجنب النظر مباشرة داخل الجهاز باستخدام أدوات بصرية.

احتياط: هنگامی که باز گردد، تشعشع مرئی و یا نامرئی کلاس 1M لیزر وجود دارد. با لوازم چشمی مستقیماً به آن نگاه نکنید.

주의: 개방하면 가시 및/또는 비가시 클래스 1M 레이저 방사선이 나옵니다. 광학 기구로 직접 들여다보지 마십시오.

REPRODUCTION AND POSITION OF LABELS and PRINT WARNING LABEL and PRINT



CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC80025-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを覗くと可視及び/または不可視のクラス1Mレーザー放射線が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS 1 LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44803-003A

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC80025-1:2001 (ENG)

ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)

AVISO RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)

VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)
注意 ここを覗くと可視及び/または不可視のクラス1Mレーザー放射線が出ます。光学装置で直接見ないでください。 (JPN)

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1 LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44803-004A

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

3.1 Main Body

3.1.1 Removing the side panel

(See Fig.1, 2)

- (1) Remove the four screws **A** attaching the rear cover. (See Fig.1)
- (2) Remove the six screws **B** attaching the side panel . (See Fig.1)
- (3) Remove the four screws **C** attaching the side panel. (See Fig.2)

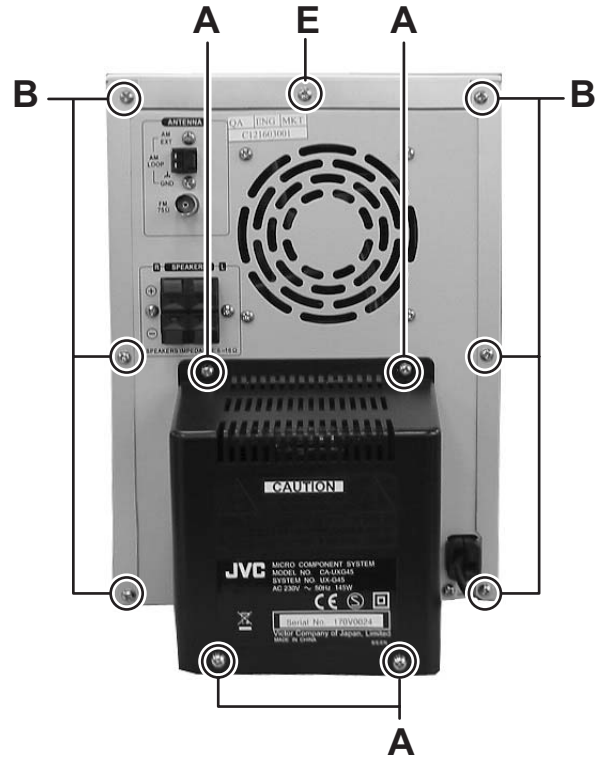


Fig.1

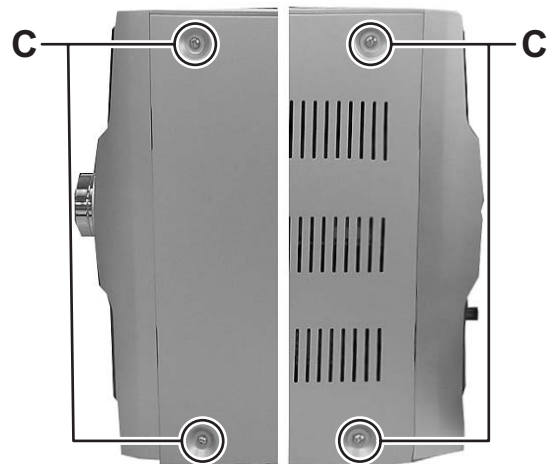


Fig.2

3.1.2 Removing the top cover

(See Fig.1, 3)

- (1) Remove the four screws **D** attaching the top cover and the side panel. (See Fig.3)
- (2) Remove the one screw **E** attaching the top cover. (See Fig.1)

Caution:

When take out the top cover, raise slowly, take care not to break the two claws of the front panel.

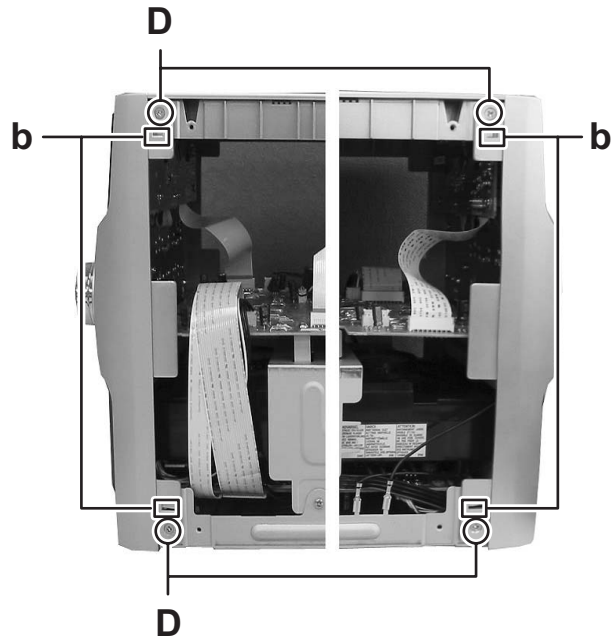


Fig.3

3.1.3 Removing the power trans board

(See Fig.4)

- (1) Remove the two screws **F** attaching the power trans board.
- (2) Disconnect the connector wire from the connector [CN103](#) of the main board.
- (3) Disconnect the connector wires from the connectors [CN901](#), [CN902](#) of the trans board.

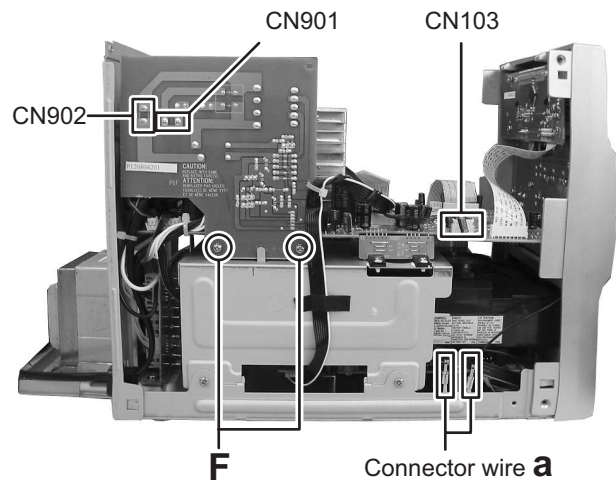


Fig.4

3.1.4 Removing the tuner pack

(See Fig.5, 6)

- (1) Remove the two screws **G** attaching the tuner pack. (See Fig.5)
- (2) Disconnect the card wire from the connector **CN351** of the main board. (See Fig.6)

3.1.5 Removing the fan

(See Fig.5, 6)

- (1) Remove the four screws **H** attaching the fan. (See Fig.5)
- (2) Disconnect the connector wire from the connector **CN141** of the main board. (See Fig.6)

3.1.6 Removing the main board

(See Fig.5, 7)

- (1) Remove the two screws **J** attaching the main board. (See Fig.5)
- (2) Remove the tow screws **K** attaching the main board and the front board. (See Fig.7)
- (3) Disconnect the card wires from the connectors **CN401**, **CN402** of the main board. (See Fig.7)
- (4) Disconnect the card wire from the connector **CN403** of the main board. (See Fig.7)
- (5) Disconnect the parallel wire from the connector **CN502** of the main board. (See Fig.7)
- (6) Disconnect the connector wires from the connectors **CN101**, **CN102**, **CN204**, **CN361** of the main board. (See Fig.7)
- (7) Remove the five screws **L** attaching the main board. (See Fig.7)
- (8) (8) Remove the two screws **M** attaching the main board and CD mechanism cover. (See Fig.7)

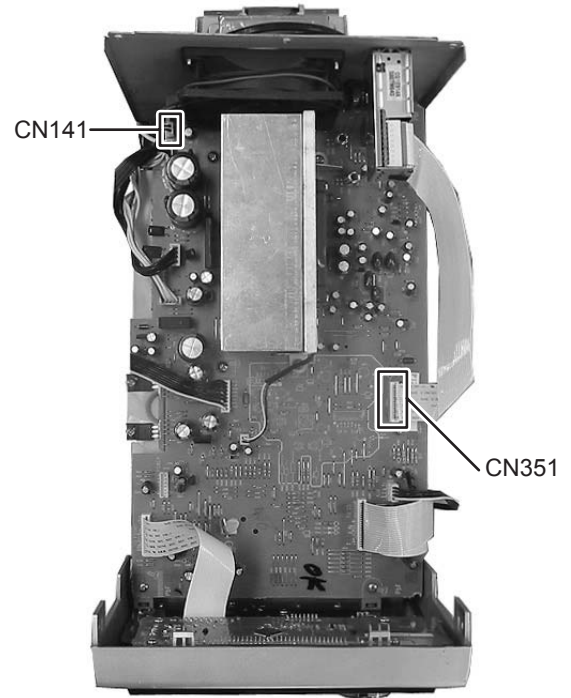


Fig.6

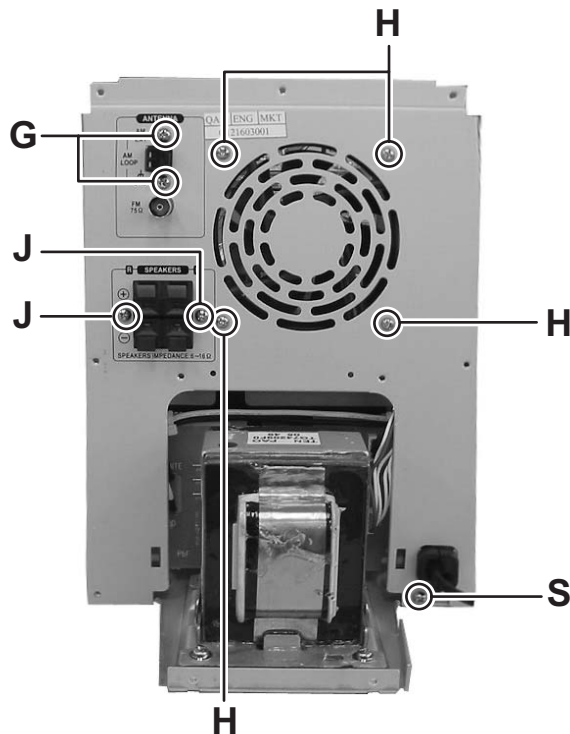


Fig.5

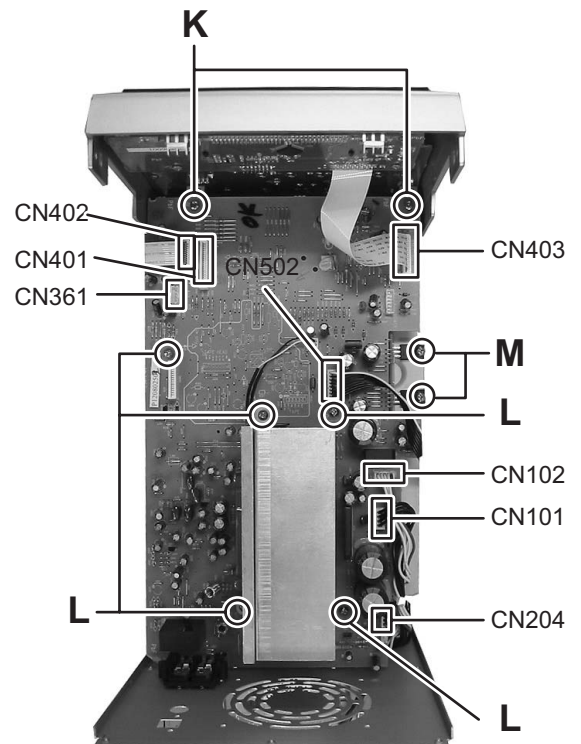


Fig.7

3.1.7 Removing the front panel assembly (See Fig.3, 4, 8, 9)

- (1) Pull out the tow connector wires **a** on the bottom chassis.
(See Fig.4)
- (2) Remove the two screws **N** attaching the front panel. (See Fig.8)
- (3) Disconnect the connector wire from the connector [CN860](#) of the CD board. (See Fig.9)
- (4) Disengage the four hooks **b** and remove the front panel assembly. (See Fig.3)



Fig.8

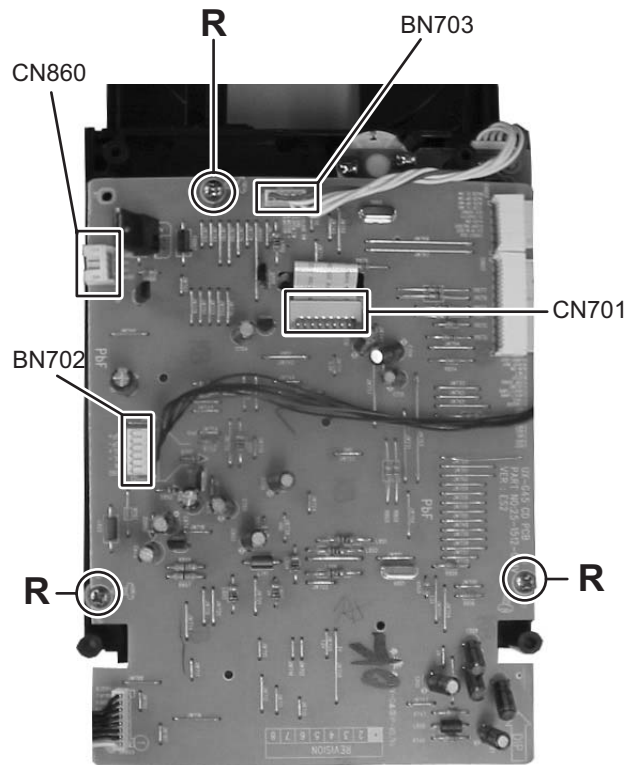


Fig.9

3.1.8 Removing the CD mechanism assembly (See Fig.10 to 12)

- (1) Remove the four screws **P** attaching the CD mechanism cover and then remove it. (See Fig.10)
- (2) Turn the gear **c** and then undraw the CD tray. (See Fig.11)
- (3) Remove the four screws **Q** attaching the CD mechanism assembly. (See Fig.12)

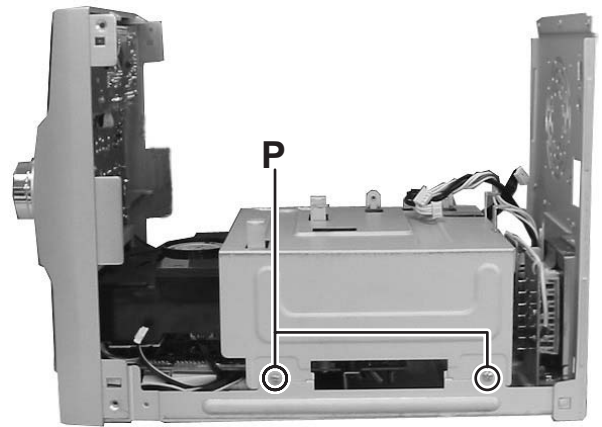


Fig.10

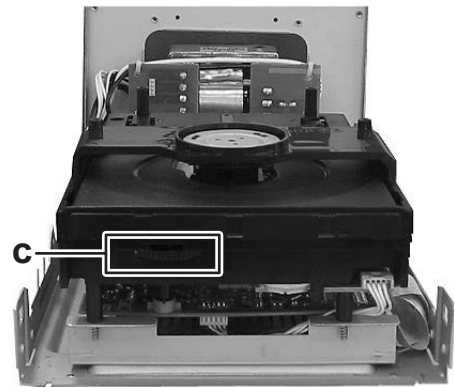


Fig.11

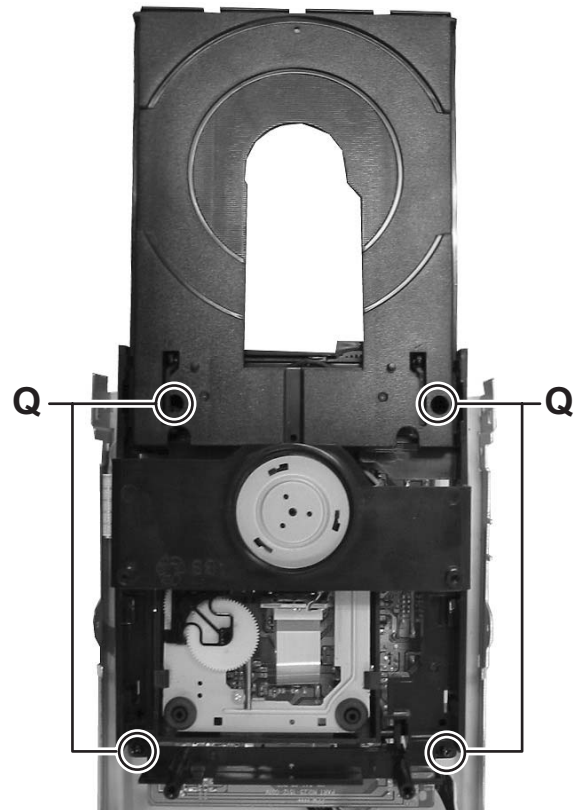


Fig.12

3.1.9 Removing the CD board (See Fig.9)

- (1) Remove the three screws **R** attaching the CD Board.
- (2) Disconnect the connector wires connected to the CD mechanism assembly from the connectors [BN702](#), [B703](#) of the CD board.
- (3) Disconnect the card wire from the connector [CN701](#) of the CD board.

3.1.10 Removing the rear panel (See Fig.5, 13)

- (1) Remove the one screw **S** attaching the rear panel. (See Fig.5)
- (2) Disengage the two hooks **d** and remove the rear panel. (See Fig.13)

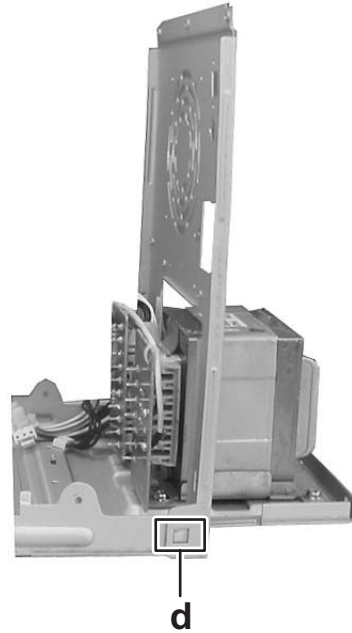


Fig.13

3.1.11 Removing the power transformer (See Fig.14)

- (1) Remove the four screws **T** attaching the power transformer.

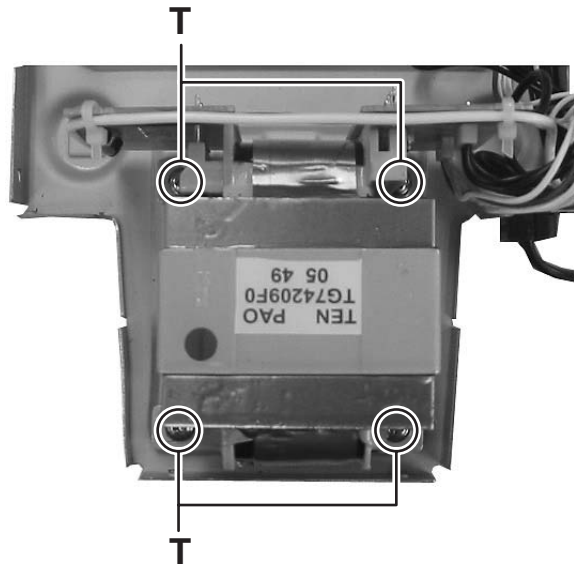


Fig.14

3.1.12 Removing the VFD board

(See Fig.15, 16)

- (1) Take out the volume knob. (See Fig.15)
- (2) Remove the four screws **U** attaching the VFD board. (See Fig.16)

3.1.13 Removing the key board

(See Fig.16)

- (1) Remove the fourteen screws **V** attaching the key board.

3.1.14 Removing the jack board

(See Fig.16)

- (1) Remove the four screws **W** attaching the jack board.



Fig.15

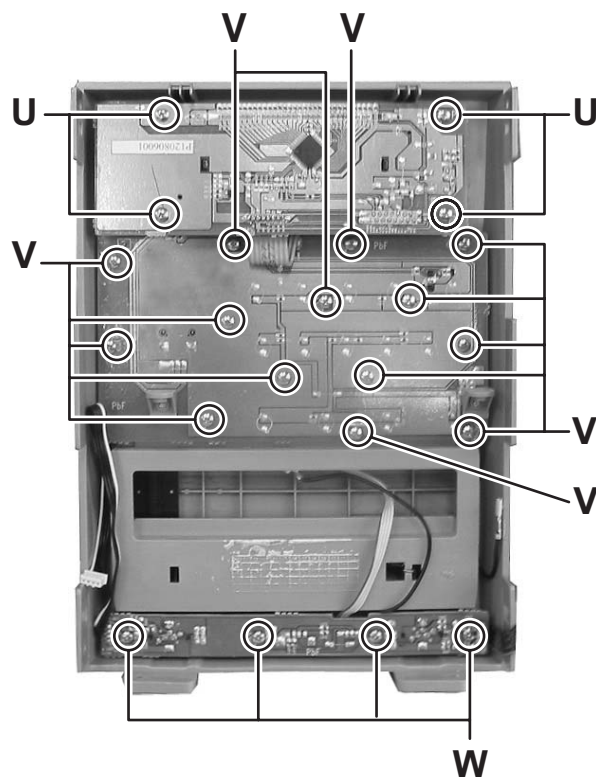


Fig.16

SECTION 4 ADJUSTMENT

This service manual does not describe ADJUSTMENT.

SECTION 5

TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



Victor Company of Japan, Limited
Audio/Video Systems Category 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

(No.MB533)



Printed in Japan
VPT

PARTS LIST

UX-G45B,UX-G45E,UX-G45EN,UX-G45EV

* All printed circuit boards and its assemblies are not available as service parts.

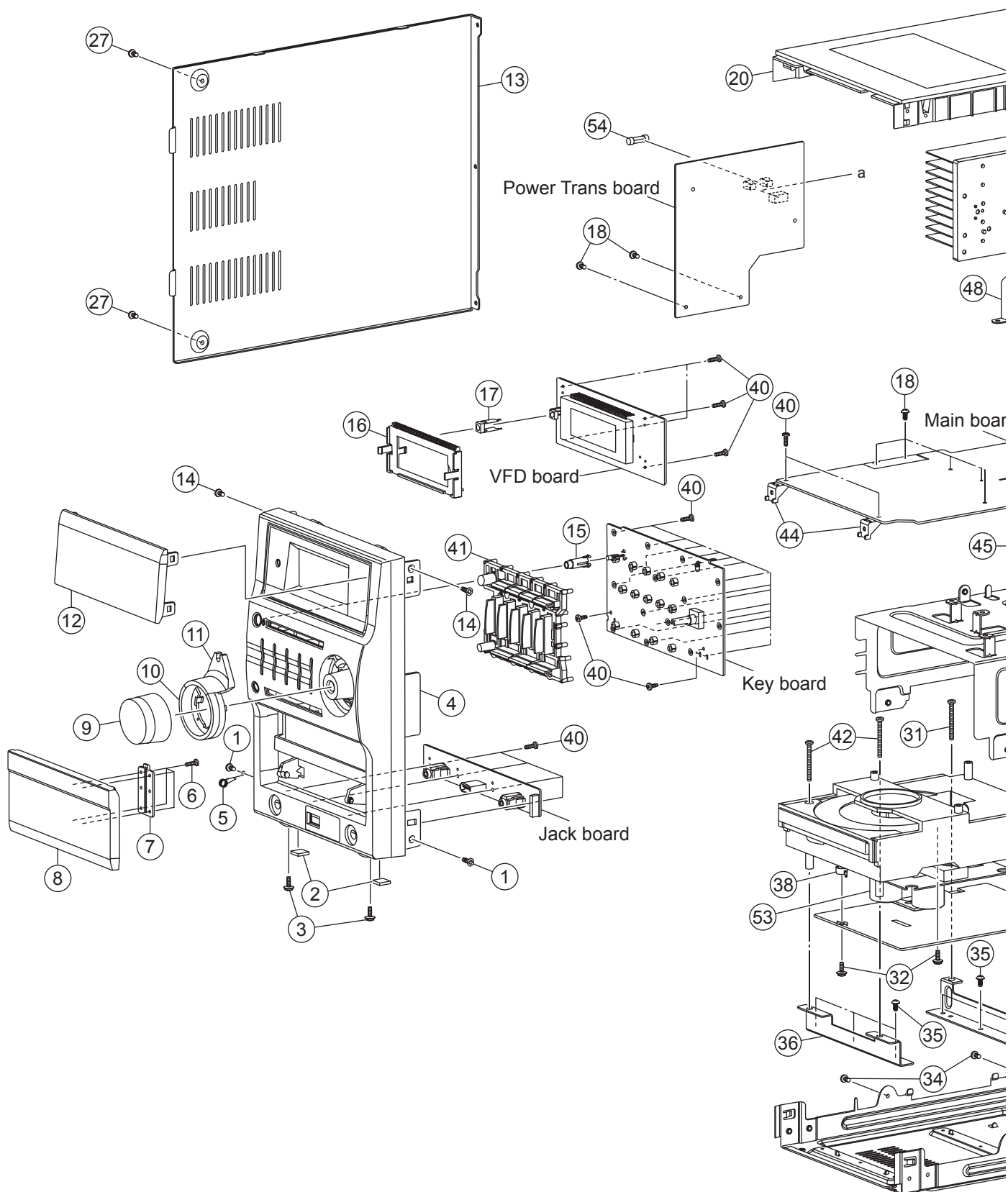
- Contents -

Exploded view of general assembly and parts list (Block No.M1)	3-2
Electrical parts list (Block No.01~04)	3-5
Packing materials and accessories parts list (Block No.M3)	3-12

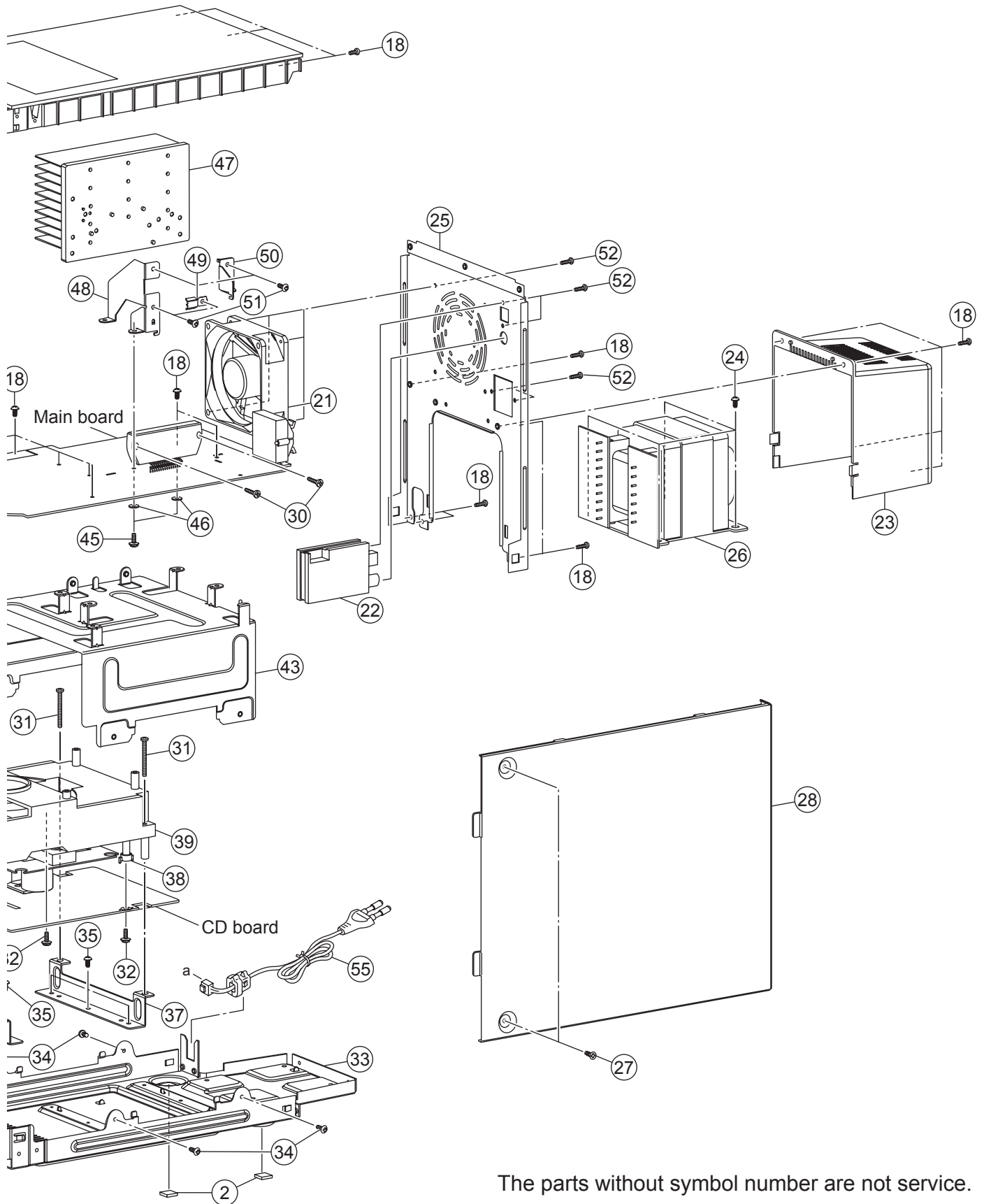
Exploded view of general assembly and parts list

Block No.

M	1	M	M
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M



The parts without symbol number are not service.

General Assembly

Block No. [M][1][M][M]

Symbol No.	Part No.	Part Name	Description	Local
1	BIKT000606	SCREW	(x2)	
2	BI3021970101V1	RUBBER FOOT	(x4)	
3	BIKT000626	SCREW	3xL8(x2)	
4	BI1084880101X1	FRONT PANEL		
5	BI2031140101X1	CD DOOR SPRING		
6	BI372080501BTP	SCREW	2.0x5.0(x4)	
7	BI1084220101X1	CD BAFFLE		
8	BI1084870101X1	CD DOOR		
9	BI1080800101V1	VOLUME KNOB	ABS-T700 94HB	
10	BI1084200101X1	VOLUME RING		
11	BI1084230101X1	ILLUMI LENS		
12	BI1084210201X1	DISPLAY LENS		
13	BI2031160102X1	SIDE PANEL-L		
14	BIKT000625P11	SCREW	3xL10(x2)	
15	BI1084260101X1	LED HOLDER		
16	BI1084250101X1	VFD HOLDER		
17	BI2031130101X1	SENSOR HOLDER		
18	BIRM000606S3X1	SCREW	3xL6(x21)	
20	BI1084240101X1	TOP COVER		
21	BI2400261V	FAN		
22	BI225096402VX	TUNER PACK	TFCG1EA914A	
23	BI1084270102X1	TRANS COVER		
24	BIPMW001101S	SCREW	+4-8R X0102282(x4)	
25	BI2031090202X1	REAR PANEL	T=0.8mm	
26	BI211011146001	POWER TRANS	PT902	
27	BIRT000608B1W	SCREW	3xL8(x4)	
28	BI2031150102X1	SIDE PANEL-R		
30	BIBT000614B3X1	SCREW	3xL14(x2)	
31	BIBT000635S2X1	SCREW	3XL35(x2)	
32	BIBT000649	SCREW	BT 3X12(x3)	
33	BI2031370101X1	BOTTOM CHASSIS	T=1.0mm	
34	BI372130064BTS	SCREW	3xL6(x4)	
35	BIRT000606S3	SCREW	RT 3X8 M(x6)	
36	BI2031390101X1	CD MECH HOLDER F	T=1.0mm	
37	BI2031400101X1	CD MECH HOLDER B	T=1.0mm	
38	BI1085930101X1	PLASTIC CUSHION	(x3)	
39	BI671UXG45020	MECHANICAL ASSY		
40	BIBT000408S3X1	SCREW	2.6XL8mm(x26)	
41	BI1084890101X1	BUTTON		
42	BIBT000630S2X1	SCREW	3XL30(x2)	
43	BI2031380101X1	CD MECH COVER	T=0.8mm	
44	BI1084910101X1	PCB BRACKET	(x2)	
45	BIWPT000601P31	SCREW	3XL8(x2)	
46	BI3000271	FIBRE WASHER	3.2x8x0.8(x2)	
47	BI2031530101X1	HEAT SINK		
48	BI2031520101X1	HEAT SINK BKT		
49	BI2029330101X2	BKT		
50	BI2029350101W1	HEATSINK BKT	B	
51	BI372060803RTB	SCREW	3xL8(x4)	
52	BIRT000610B3X2	SCREW	3X10(x8)	
53	BI251011010000	CD MECHANISM		
54	BI403081	FUSE	1.25A 250V F901	
55	BI1401441V	POWER CORD		G45B
55	BI1401352X	POWER CORD		G45E,G45EN,G45EV

Electrical parts list

Main board

Block No. [0][1]

△ Symbol No.	Part No.	Part Name	Description	Local
IC105	BI120781X	AMP IC	STK433-090	
IC110	BI110841X	IC	KIA7812	
IC111	BI118381X	IC	NJM79L09	
IC112	BI111971X	IC	KIA7809AP/P	
IC113	BI110891X	IC	KIA7808API	
IC371	BI103952X	IC	BA4558F	
IC372	BI103952X	IC	BA4558F	
IC401	BI12047BI1X	IC	S3C825A	
IC501	BI112721V	IC	BD3881FV	
IC551	BI103952X	IC	BA4558F	
IC625	BI115291X	IC	RPM7138-V4	
IC651	BI116661	IC	S5G5128A	
Q111	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q112	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q141	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q142	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q143	KTA1273Y	TRANSISTOR	BI2KTA1273YP000	
Q144	KTA1273Y	TRANSISTOR	BI2KTA1273YP000	
Q171	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q172	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q173	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q174	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q175	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q201	DTC323TK	DIGI TRANSISTOR	BI2DTC323TKA011	
Q202	DTC323TK	DIGI TRANSISTOR	BI2DTC323TKA011	
Q203	DTC114TK	DIGI TRANSISTOR	BI2DTC114TKA011	
Q204	DTA114YK	DIGI TRANSISTOR	BI2DTA114YKA018	
Q241	2SA1235F	TRANSISTOR	BI2SA1235FA012H	
Q242	2SA1235F	TRANSISTOR	BI2SA1235FA012H	
Q243	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q244	DTC114YK	DIGI TRANSISTOR	BI2DTC114YKA018	
Q291	DTC323TK	DIGI TRANSISTOR	BI2DTC323TKA011	
Q292	DTC323TK	DIGI TRANSISTOR	BI2DTC323TKA011	
Q293	DTC114TK	DIGI TRANSISTOR	BI2DTC114TKA011	
Q294	DTA114YK	DIGI TRANSISTOR	BI2DTA114YKA018	
Q351	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q352	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q353	DTC114TK	DIGI TRANSISTOR	BI2DTC114TKA011	
Q354	2SA1235F	TRANSISTOR	BI2SA1235FA012H	
Q361	DTC323TK	DIGI TRANSISTOR	BI2DTC323TKA011	
Q362	DTC323TK	DIGI TRANSISTOR	BI2DTC323TKA011	
Q371	DTC124EKA	DIGI TRANSISTOR	BI2DTC124EKA018	
Q401	DTC114YK	DIGI TRANSISTOR	BI2DTC114YKA018	
Q402	DTC114YK	DIGI TRANSISTOR	BI2DTC114YKA018	
Q404	2SC1815	TRANSISTOR	BI2SC1815GRP000	
Q501	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q502	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q551	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q552	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q625	KRA107S	TRANSISTOR	BI2KRA107SA0000	
Q626	DTA114YK	DIGI TRANSISTOR	BI2DTA114YKA018	
Q627	DTA114YK	DIGI TRANSISTOR	BI2DTA114YKA018	
D101	RS603M	DIODE	BI3RS603M1	
D111	RS202	DIODE	BI3RS2021	
D112	1SS133	FR DIODE	BI31SS133M000V7	
D132	1SS133	FR DIODE	BI31SS133M000V7	
D133	1SS133	FR DIODE	BI31SS133M000V7	
D134	1SS133	FR DIODE	BI31SS133M000V7	
D141	MC2838	DIODE	BI3MC2838A002	
D142	1SS133	FR DIODE	BI31SS133M000V7	
D161	1N4001	DIODE	BI31N4001M0006	
D172	1SS133	FR DIODE	BI31SS133M000V7	
D173	1SS133	FR DIODE	BI31SS133M000V7	
D174	1SS133	FR DIODE	BI31SS133M000V7	
D201	1SS133	FR DIODE	BI31SS133M000V7	
D231	1SS133	FR DIODE	BI31SS133M000V7	
D232	1SS133	FR DIODE	BI31SS133M000V7	
D233	1SS133	FR DIODE	BI31SS133M000V7	

△ Symbol No.	Part No.	Part Name	Description	Local
D234	1SS133	FR DIODE	BI31SS133M000V7	
D235	1SS133	FR DIODE	BI31SS133M000V7	
D236	1SS133	FR DIODE	BI31SS133M000V7	
D361	1SS133	FR DIODE	BI31SS133M000V7	
D362	1SS133	FR DIODE	BI31SS133M000V7	
D363	1SS133	FR DIODE	BI31SS133M000V7	
D371	1SS133	FR DIODE	BI31SS133M000V7	
D401	1SS133	FR DIODE	BI31SS133M000V7	
D402	1SS133	FR DIODE	BI31SS133M000V7	
D403	1SS133	FR DIODE	BI31SS133M000V7	
D404	1SS133	FR DIODE	BI31SS133M000V7	
D405	1SS133	FR DIODE	BI31SS133M000V7	
D421	1SS133	FR DIODE	BI31SS133M000V7	
D551	1SS133	FR DIODE	BI31SS133M000V7	
D552	1SS133	FR DIODE	BI31SS133M000V7	
D601	1SS133	FR DIODE	BI31SS133M000V7	
D602	1SS133	FR DIODE	BI31SS133M000V7	
D625	BI28B4541EP011	LED	RED BL-B4541-AV-TBS2	
D626	BI2801181V	LED		
D971	1SS133	FR DIODE	BI31SS133M000V7	
D972	1SS133	FR DIODE	BI31SS133M000V7	
D981	1SS133	FR DIODE	BI31SS133M000V7	
D982	1SS133	FR DIODE	BI31SS133M000V7	
D991	1SS133	FR DIODE	BI31SS133M000V7	
D992	1SS133	FR DIODE	BI31SS133M000V7	
C101	BICM103101KP01	M CAPACITOR	0.01uF 100V	
C102	BICM103101KP01	M CAPACITOR	0.01uF 100V	
C103	BICM223101KP01	M CAPACITOR	0.022uF 100V	
C104	BICM103101KP01	M CAPACITOR	0.01uF 100V	
C105	BICM103101KP01	M CAPACITOR	0.01uF 100V	
C106	BICE33856M1Y	E CAPACITOR	3300uF 56V	
C107	BICE33856M1Y	E CAPACITOR	3300uF 56V	
C111	BICC103500KA04	C CAPACITOR	0.01uF 50V	
C112	BICC103500KA04	C CAPACITOR	0.01uF 50V	
C113	BICC223500KA04	C CAPACITOR	0.022uF 50V	
C114	BICE106500MP01	E CAPACTIOR	10uF 50V	
C115	BICE108250MP01	E CAPACITOR	1000uF 25V	
C116	BICE47825M6Y1	E CAPACITOR	4700uF 25V	
C117	BICC103500KA04	C CAPACITOR	0.01uF 50V	
C118	BICC103500KA04	C CAPACITOR	0.01uF 50V	
C121	BICE108160MP01	E CAPACITOR	1000uF 16V	
C122	BICE477160MP01	E CAPACITOR	470uF 16V	
C125	BICE108160MP01	E CAPACITOR	1000uF 16V	
C126	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C127	BICE108160MP01	E CAPACITOR	1000uF 16V	
C128	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C141	BICE105500MP11	E CAPACITOR	1uF 50V	
C142	BICE106500MP01	E CAPACTIOR	10uF 50V	
C144	BICE107160MP11	E CAPACITOR	100uF 16V	
C161	BICE476500MP01	E CAPACITOR	47uF 50V	
C162	BICE226500MP01	E CAPACITOR	22uF 50V	
C163	BICC103500KA04	C CAPACITOR	0.01uF 50V	
C164	BICE226500MP01	E CAPACITOR	22uF 50V	
C165	BICE106500MP01	E CAPACTIOR	10uF 50V	
C171	BICC222500KA04	C CAPACITOR	2200pF 50V	
C172	BICE105500MP01	E CAPACITOR	1uF 50V	
C173	BICE475500MP01	E CAPACITOR	4.7uF 50V	
C174	BICE226160MP01	E CAPACITOR	22uF 16V	
C175	BICE107160MP01	E CAPACITOR	100uF 16V	
C203	BICE105500MP01	E CAPACITOR	1uF 50V	
C204	BICE105500MP01	E CAPACITOR	1uF 50V	
C205	BICC391500JA04	C CAPACITOR	390pF 50V	
C206	BICC391500JA04	C CAPACITOR	390pF 50V	
C207	BICC221500JA04	C CAPACITOR	220pF 50V	
C208	BICC221500JA04	C CAPACITOR	220pF 50V	
C213	BICE107630MP01	E CAPACITOR	100uF 63V	
C214	BICE107630MP01	E CAPACITOR	100uF 63V	
C215	BICE226500MP01	E CAPACITOR	22uF 50V	
C216	BICE226500MP01	E CAPACITOR	22uF 50V	
C217	BICC047500CA04	C CAPACITOR	4.7pF	
C218	BICC047500CA04	C CAPACITOR	4.7pF	
C237	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C238	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C239	BICC104500KA04	C CAPACITOR	0.1uF 50V	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C240	BICC104500KA04	C CAPACITOR	0.1uF 50V		C557	BICE107160MP01	E CAPACITOR	100uF 16V	
C241	BICE106500MP01	E CAPACTIOR	10uF 50V		C558	BICE107160MP01	E CAPACITOR	100uF 16V	
C242	BICE105500MP01	E CAPACITOR	1uF 50V		C559	BICE475500MP01	E CAPACITOR	4.7uF 50V	
C243	BICC153500KA04	C CAPACITOR	0.015uF 50V		C560	BICE475500MP01	E CAPACITOR	4.7uF 50V	
C244	BICC153500KA04	C CAPACITOR	0.015uF 50V		C561	BICE475500MP01	E CAPACITOR	4.7uF 50V	
C348	BICC104500KA04	C CAPACITOR	0.1uF 50V		C562	BICC471500JA04	C CAPACITOR	470pF	
C349	BICC104500KA04	C CAPACITOR	0.1uF 50V		C563	BICC471500JA04	C CAPACITOR	470pF	
C351	BICC101500JA04	C CAPACITOR	100pF 50V		C601	BICC103500KA04	C CAPACITOR	0.01uF 50V	
C352	BICC101500JA04	C CAPACITOR	100pF 50V		C602	BICC103500KA04	C CAPACITOR	0.01uF 50V	
C353	BICC101500JA04	C CAPACITOR	100pF 50V		C603	BICC471500JA04	C CAPACITOR	470pF	
C354	BICC101500JA04	C CAPACITOR	100pF 50V		C604	BICC471500JA04	C CAPACITOR	470pF	
C355	BICC103500KA04	C CAPACITOR	0.01uF 50V		C625	BICC102500JA04	C CAPACITOR	1000pF 50V	
C357	BICC102500JA04	C CAPACITOR	1000pF 50V		C626	BICE107100MP01	E CAPACITOR	100uF 10V	
C358	BICC102500JA04	C CAPACITOR	1000pF 50V		C652	BICE226500MP11	E CAPACITOR	22uF/50V	
C361	BICE225500MP41	E CAPACITOR	2.2uF/50V		C654	BICE226500MP11	E CAPACITOR	22uF/50V	
C362	BICE225500MP41	E CAPACITOR	2.2uF/50V		C655	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C363	BICC102500JA04	C CAPACITOR	1000pF 50V		C656	BICE107630MP01	E CAPACITOR	100uF 63V	
C364	BICC102500JA04	C CAPACITOR	1000pF 50V		C657	BICC103500KA04	C CAPACITOR	0.01uF 50V	
C369	BICC104500KA04	C CAPACITOR	0.1uF 50V		C658	BICC101500JA04	C CAPACITOR	100pF 50V	
C371	BICE476250MP01	E CAPACITOR	47uF 25V		C659	BICC101500JA04	C CAPACITOR	100pF 50V	
C372	BICE476250MP01	E CAPACITOR	47uF 25V		C660	BICC101500JA04	C CAPACITOR	100pF 50V	
C374	BICE106500MP01	E CAPACTIOR	10uF 50V		C661	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C375	BICE225500MP01	E CAPACITOR	2.2uF 50V		C662	BICE108100MP01	E CAPACITOR	1000uF 10V	
C376	BICE225500MP01	E CAPACITOR	2.2uF 50V		C663	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C377	BICC474100KA04	C CAPACITOR	0.47uF 10V		C664	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C378	BICC474100KA04	C CAPACITOR	0.47uF 10V		C665	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C381	BICC821500KA04	C CAPACITOR	820pF		C981	BICC471500JA04	C CAPACITOR	470pF	
C382	BICC821500KA04	C CAPACITOR	820pF		C982	BICC471500JA04	C CAPACITOR	470pF	
C383	BICC104500KA04	C CAPACITOR	0.1uF 50V		C983	BICC102500JA04	C CAPACITOR	1000pF 50V	
C401	BICC104500KA04	C CAPACITOR	0.1uF 50V		C984	BICC102500JA04	C CAPACITOR	1000pF 50V	
C402	BICE477063MP01	E CAPACITOR	470uF 6.3V		C991	BICC102500JA04	C CAPACITOR	1000pF 50V	
C403	BICC150500JA04	C CAPACITOR	15pF 50V		C992	BICC102500JA04	C CAPACITOR	1000pF 50V	
C404	BICC330500JA04	C CAPACITOR	33pF 50V						
C405	BICC101500JA04	C CAPACITOR	100pF 50V		R111	BIRC2200105A00	C RESISTOR	22Ω 1/10W	
C406	BICC104500KA04	C CAPACITOR	0.1uF 50V		R112	BIRC2230085M00	C RESISTOR	22KΩ 1/8W	
C407	BICC104500KA04	C CAPACITOR	0.1uF 50V		R113	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W	
C408	BICE476500MP01	E CAPACITOR	47uF 50V		R116	BIRF0220045N00	C RESISTOR	2.2 Ω	
C410	BICC220500JA04	C CAPACITOR	22pF 50V		R117	BIRC3320105A00	C RESISTOR	3.3KΩ 1/10W	
C411	BICC220500JA04	C CAPACITOR	22pF 50V		R118	BIRC6820105A00	C RESISTOR	6.8KΩ 1/10W	
C412	BICE225500MP01	E CAPACITOR	2.2uF 50V		R133	BIRC2210105A00	C RESISTOR	220Ω 1/10W	
C413	BICE477063MP01	E CAPACITOR	470uF 6.3V		R134	BIRC2210105A00	C RESISTOR	220Ω 1/10W	
C414	BICE477063MP01	E CAPACITOR	470uF 6.3V		R135	BIRC2210105A00	C RESISTOR	220Ω 1/10W	
C415	BICC104500KA04	C CAPACITOR	0.1uF 50V		R141	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
C416	BICE107100MP01	E CAPACITOR	100uF 10V		R142	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
C417	BICC104500KA04	C CAPACITOR	0.1uF 50V		R144	BIRC2240105A00	C RESISTOR	220KΩ 1/10W	
C418	BICE337160MP01	E CAPACITOR	330uF/16V		R145	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
C420	BICC104500KA04	C CAPACITOR	0.1uF 50V		R146	BIRC5600105A00	C RESISTOR	56Ω 1/10W	
C421	BICC104500KA04	C CAPACITOR	0.1uF 50V		R147	BIRC5620105A00	C RESISTOR	5.6KΩ 1/10W	
C422	BICC330500JA04	C CAPACITOR	33pF 50V		R148	BIRC5620105A00	C RESISTOR	5.6KΩ 1/10W	
C423	BICC330500JA04	C CAPACITOR	33pF 50V		R149	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
C424	BICC330500JA04	C CAPACITOR	33pF 50V		R150	BIRC1210025N00	C RESISTOR	120Ω 1/2W	
C425	BICC330500JA04	C CAPACITOR	33pF 50V		R151	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
C426	BICC220500JA04	C CAPACITOR	22pF 50V		R152	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
C511	BICE225500MP01	E CAPACITOR	2.2uF 50V		R153	BIRF3300025N00	FUSE RESISTOR	33Ω 1/2W	
C512	BICE225500MP01	E CAPACITOR	2.2uF 50V		R161	BIRF3300025N00	FUSE RESISTOR	33Ω 1/2W	
C513	BICC822500KA04	C CAPACITOR	8200pF 50V		R162	BIRC3320105A00	C RESISTOR	3.3KΩ 1/10W	
C514	BICC822500KA04	C CAPACITOR	8200pF 50V		R163	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W	
C515	BICC101500JA04	C CAPACITOR	100pF 50V		R164	BIRC5620085M00	C RESISTOR	5.6KΩ 1/8W	
C516	BICC104500KA04	C CAPACITOR	0.1uF 50V		R165	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
C517	BICE227100MP01	E CAPACITOR	220uF 10V		R166	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
C518	BICC104500KA04	C CAPACITOR	0.1uF 50V		R171	BIRC6840105A00	C RESISTOR	680KΩ 1/10W	
C519	BICE107100MP01	E CAPACITOR	100uF 10V		R172	BIRC1830105A00	C RESISTOR	18KΩ 1/10W	
C525	BICM124101KP01	M CAPACITOR	0.12uF 100V		R173	BIRC4700105A00	C RESISTOR	47Ω 1/10W	
C526	BICM124101KP01	M CAPACITOR	0.12uF 100V		R174	BIRC1040105A00	C RESISTOR	100KΩ 1/10W	
C527	BICE104500MP01	E CAPACITOR	0.1uF 50V		R175	BIRC3320105A00	C RESISTOR	3.3KΩ 1/10W	
C528	BICE104500MP01	E CAPACITOR	0.1uF 50V		R176	BIRC3910105A00	C RESISTOR	390Ω 1/10W	
C529	BICC683160KA04	C CAPACITOR	0.068uF 16V		R201	BIRC3920105A00	C RESISTOR	3.9KΩ 1/10W	
C530	BICC683160KA04	C CAPACITOR	0.068uF 16V		R203	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W	
C531	BICE474500MP01	E CAPACITOR	0.47uF 50V		R204	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W	
C532	BICE474500MP01	E CAPACITOR	0.47uF 50V		R205	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W	
C537	BICC222500KA04	C CAPACITOR	2200pF 50V		R206	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W	
C538	BICC222500KA04	C CAPACITOR	2200pF 50V		R207	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
C551	BICE107160MP01	E CAPACITOR	100uF 16V		R208	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
C552	BICE107160MP01	E CAPACITOR	100uF 16V		R209	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W	
C553	BICC104500KA04	C CAPACITOR	0.1uF 50V		R210	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W	
C554	BICC104500KA04	C CAPACITOR	0.1uF 50V		R211	BIRF1010025N00	FUSE RESISTOR	100Ω 1/2W	
C555	BICM124101KP01	M CAPACITOR	0.12uF 100V		R212	BIRF1010025N00	FUSE RESISTOR	100Ω 1/2W	
C556	BICM124101KP01	M CAPACITOR	0.12uF 100V		R215	BIRC5630105A00	C RESISTOR	56KΩ 1/10W	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R216	BIRC5630105A00	C RESISTOR	56KΩ 1/10W		R404	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R217	BIRM0022N25N00	M RESISTOR	0.22Ω 2W		R406	BIRC3310085M00	C RESISTOR	330Ω 1/8W	
R218	BIRM0022N25N00	M RESISTOR	0.22Ω 2W		R407	BIRC1820085M00	C RESISTOR	1.8KΩ 1/8W	
R220	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R408	BIRC2220085N00	C RESISTOR	2.2KΩ 1/8W	
R259	BIRC1020085N00	C RESISTOR	1KΩ 1/8W		R411	BIRC4700105A00	C RESISTOR	47Ω 1/10W	
R260	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		R420	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R261	BIRC1530105A00	C RESISTOR	15KΩ 1/10W		R421	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R262	BIRC1530105A00	C RESISTOR	15KΩ 1/10W		R422	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R263	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		R423	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R264	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		R424	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R269	BICC101500JA04	C CAPACITOR	100pF 50V		R425	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R270	BIRC1540085M00	C RESISTOR	150KΩ 1/8W		R426	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R275	BIRC2200085M00	C RESISTOR	22Ω 1/8W		R427	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R276	BIRC2200085M00	C RESISTOR	22Ω 1/8W		R428	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R277	BIRC2200085M00	C RESISTOR	22Ω 1/8W		R429	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R278	BIRC2200085M00	C RESISTOR	22Ω 1/8W		R430	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R279	BIRC2200105A00	C RESISTOR	22Ω 1/10W		R431	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R280	BIRC2200105A00	C RESISTOR	22Ω 1/10W		R432	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R281	BIRC2200105A00	C RESISTOR	22Ω 1/10W		R433	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R282	BIRC2200105A00	C RESISTOR	22Ω 1/10W		R434	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R283	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R435	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R284	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R436	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R285	BIRC4710105A00	C RESISTOR	470Ω 1/10W		R437	BIRC1020105A00	C RESISTOR	1KΩ 1/10W	
R286	BIRC4740105A00	C RESISTOR	470KΩ 1/10W		R439	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R287	BIRC1000085M00	C RESISTOR	10Ω 1/8W		R440	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R289	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R441	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R290	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R443	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R291	BIRC6810025N00	C RESISTOR	680Ω 1/2W		R444	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R292	BIRC6810025N00	C RESISTOR	680Ω 1/2W		R445	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R293	BIRC5610105A00	C RESISTOR	560Ω 1/10W		R446	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R294	BIRC5610105A00	C RESISTOR	560Ω 1/10W		R447	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R295	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R448	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R296	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R449	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R297	BIRC3920105A00	C RESISTOR	3.9KΩ 1/10W		R450	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R298	BIRC5610105A00	C RESISTOR	560Ω 1/10W		R451	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R299	BIRC5610105A00	C RESISTOR	560Ω 1/10W		R452	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W	
R344	BIRC1010085M00	C RESISTOR	100Ω 1/8W J		R453	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R345	BIRC1010105A00	C RESISTOR	100Ω 1/10W		R454	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R346	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R455	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R347	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R456	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R348	BIRC6810105A00	C RESISTOR	680Ω 1/10W		R457	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R349	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		R458	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R350	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		R459	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R351	BIRC3320085M00	C RESISTOR	3.3KΩ 1/8W		R460	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R354	BIRC4710085M00	C RESISTOR	470Ω 1/8W		R461	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R356	BIRC4730085M00	C RESISTOR	47KΩ 1/8W		R462	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R357	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		R463	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R358	BIRC1820105A00	C RESISTOR	1.8KΩ 1/10W		R467	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R359	BIRC1820105A00	C RESISTOR	1.8KΩ 1/10W		R470	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R363	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W		R471	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R364	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W		R472	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R365	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R473	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R366	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R474	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R367	BIRC6810105A00	C RESISTOR	680Ω 1/10W		R475	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R368	BIRC6810105A00	C RESISTOR	680Ω 1/10W		R476	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R369	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R477	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R370	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R478	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R371	BIRC1010085M00	C RESISTOR	100Ω 1/8W J		R479	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R372	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W		R480	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R373	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W		R481	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R374	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		R482	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R375	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		R483	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R376	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W		R484	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R377	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W		R485	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R378	BIRC2240105A00	C RESISTOR	220KΩ 1/10W		R486	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R379	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		R488	BIRC1030085M00	C RESISTOR	10KΩ 1/8W J	
R380	BIRC3330105A00	C RESISTOR	33KΩ 1/10W		R489	BIRC1030085M00	C RESISTOR	10KΩ 1/8W J	
R381	BIRC2730105A00	C RESISTOR	27KΩ 1/10W		R490	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R382	BIRC2730105A00	C RESISTOR	27KΩ 1/10W		R513	BIRC5630105A00	C RESISTOR	56KΩ 1/10W	
R383	BIRC1520105A00	C RESISTOR	1.5KΩ 1/10W		R514	BIRC5630105A00	C RESISTOR	56KΩ 1/10W	
R384	BIRC1520105A00	C RESISTOR	1.5KΩ 1/10W		R515	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R391	BIRC3920085M00	C RESISTOR	3.9KΩ 1/8W		R516	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W	
R392	BIRC3920085M00	C RESISTOR	3.9KΩ 1/8W		R517	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W	
R393	BIRC1130105A00	C RESISTOR	11K		R518	BIRC2220085M00	C RESISTOR	2.2KΩ 1/8W	
R394	BIRC1130105A00	C RESISTOR	11K		R519	BIRC2220085M00	C RESISTOR	2.2KΩ 1/8W	
R401	BIRC1020085M00	C RESISTOR	1KΩ 1/8W J		R520	BIRC2210085M00	C RESISTOR	220Ω 1/8W	
R402	BIRC0000105A00	C RESISTOR	0Ω 1/10W		R521	BIRC2210085M00	C RESISTOR	220Ω 1/8W	
R403	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		R525	BIRC1020105A00	C RESISTOR	1KΩ 1/10W	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R526	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		R683	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R527	BIRC6830105A00	C RESISTOR	68KΩ 1/10W		R684	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R528	BIRC6830105A00	C RESISTOR	68KΩ 1/10W		R685	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R529	BIRC2020105A00	C RESISTOR	2KΩ 1/10W		R686	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R530	BIRC2020105A00	C RESISTOR	2KΩ 1/10W		R687	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R551	BIRC1010085M00	C RESISTOR	100Ω 1/8W J		R688	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R552	BIRC1010085M00	C RESISTOR	100Ω 1/8W J		R689	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R553	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		R690	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R554	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		R983	BIRC2020105A00	C RESISTOR	2KΩ 1/10W	
R555	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R984	BIRC2020105A00	C RESISTOR	2KΩ 1/10W	
R556	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R985	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R557	BIRC1220105A00	C RESISTOR	1.2KΩ 1/10W		R986	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R558	BIRC1220105A00	C RESISTOR	1.2KΩ 1/10W		R987	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R559	BIRC5620105A00	C RESISTOR	5.6KΩ 1/10W		R991	BIRC8200105A00	C RESISTOR	82Ω 1/10W	
R560	BIRC5620105A00	C RESISTOR	5.6KΩ 1/10W		R992	BIRC8200105A00	C RESISTOR	82Ω 1/10W	
R563	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		R993	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R564	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		VR601	BI804691	RORARY SW	RE012304PVB25F	
R565	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W						
R566	BIRC2220105A00	C RESISTOR	2.2KΩ 1/10W		L131	BI18A843556N00	FILTER BEAD	843556	
R567	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		L201	BI2600702V	CHOKE COIL	1uH	
R568	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		L202	BI2600702V	CHOKE COIL	1uH	
R569	BIRC1030085M00	C RESISTOR	10KΩ 1/8W J		L351	BI18A843556N00	FILTER BEAD	843556	
R570	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		L381	BI18A843556N00	FILTER BEAD	843556	
R571	BIRC1030085M00	C RESISTOR	10KΩ 1/8W J		L402	BI26100000KM00	FIXED INDUCTOR	10uH	
R572	BIRC2220085M00	C RESISTOR	2.2KΩ 1/8W		L651	BI26100000KM00	FIXED INDUCTOR	10uH	
R573	BIRC5620105A00	C RESISTOR	5.6KΩ 1/10W		L971	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R574	BIRC5620085M00	C RESISTOR	5.6KΩ 1/8W		L972	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R601	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		L973	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R602	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		L974	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R603	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		L981	BI18A9BI16BI12	F-BEAD	120Ω	
R607	BIRC9110105A00	C RESISTOR	910Ω 1/10W		L982	BI18A9BI16BI12	F-BEAD	120Ω	
R608	BIRC1120105A00	C RESISTOR	1.1KΩ 1/10W		L991	BI26010000KM00	FIXED INDUCTOR	1uH	
R609	BIRC1320105A00	C RESISTOR	1.3KΩ 1/10W						
R610	BIRC1820105A00	C RESISTOR	1.8KΩ 1/10W		BN101	BI12P40316X	WIRE	4P FOR MAIN CN101	
R611	BIRC2020105A00	C RESISTOR	2KΩ 1/10W		BN102	BI12P50175X	WIRE	5P FOR MAIN CN102	
R612	BIRC3020105A00	C RESISTOR	3KΩ 1/10W		BN103	BI12P20239Y	CONNECTOR WIRE	2P FOR PT CN902	
R616	BIRC9110105A00	C RESISTOR	910Ω 1/10W		BN171	BI12P20205V	CONNECTOR ASSY	2P	
R617	BIRC1120105A00	C RESISTOR	1.1KΩ 1/10W		BN971	BI12P40314X	WIRE	4P FOR CD CN860	
R618	BIRC1320105A00	C RESISTOR	1.3KΩ 1/10W		BN981	BI12P40321Y	WIRE	4P FOR MAIN CN361	
R619	BIRC1820105A00	C RESISTOR	1.8KΩ 1/10W						
R620	BIRC2020105A00	C RESISTOR	2KΩ 1/10W		BN991	BI12P402341V	CONNECTOR WIRE	4P FOR MAIN CN204	
R621	BIRC3020105A00	C RESISTOR	3KΩ 1/10W		CN101	BI12S40072	SOCKET CONNECTO	4P	
R625	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		CN102	BI12S501651X	CONNECTOR	5P	
R626	BIRC2210105A00	C RESISTOR	220Ω 1/10W		CN103	BI12S600961	CONNECTOR	6P	
R627	BIRC2210105A00	C RESISTOR	220Ω 1/10W		CN141	BI12S300471V	CONNECTOR	3P	
R628	BIRC1520105A00	C RESISTOR	1.5KΩ 1/10W		CN171	BI12S20016	SKT CONNECTOR	2P	
R629	BIRC2210105A00	C RESISTOR	220Ω 1/10W		CN204	BI12S40047	CONNECTOR	4P	
R630	BIRC2710105A00	C RESISTOR	270 Ω		CN351	BI12S150023V	CONNECTOR	15P	
R631	BIRC3910105A00	C RESISTOR	390Ω 1/10W		CN361	BI12S400551	CONNECTOR	4P	
R632	BIRC4710105A00	C RESISTOR	470Ω 1/10W		CN401	BI12S200011V	CONNECTOR	20P	
R651	BIRC0100105A00	C RESISTOR	1Ω 1/10W		CN402	BI12S110020V	FFC CONNECTOR	11P	
R652	BIRC0100105A00	C RESISTOR	1Ω 1/10W		CN403	BI12S160033V	SOCKET	16P	
R653	BIRC0000105A00	C RESISTOR	0Ω 1/10W		CN502	BI12S80024	CONNECTOR	8P	
R654	BIRC2200105A00	C RESISTOR	22Ω 1/10W		CN601	BI12S160034V	SOCKET	16P	
R655	BIRC2730105A00	C RESISTOR	27KΩ 1/10W		JK971	BI23B1621V	USB A/F		
R660	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JK981	BI23B0293V	HEADPHONE JACK	PJ-310HB	
R661	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JK991	BI23B0293V	HEADPHONE JACK	PJ-310HB	
R662	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR101	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R663	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR102	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R664	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR105	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R665	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR106	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R666	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR107	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R667	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR203	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R668	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR301	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R669	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR402	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R670	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR651	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R671	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		JR652	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R672	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		P101	BI11A050M0Y	BLACK WIRE	50mm UL1007	
R673	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		P103	BI11A050M0Y	BLACK WIRE	50mm UL1007	
R674	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		RY201	BI8RL00191V	RELAY	DC12V ME-7C- 012-3H	
R675	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		S601	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
R676	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		S602	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
R677	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		S603	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
R678	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		S604	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
R679	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		S605	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
R680	BIRC4730105A00	C RESISTOR	47KΩ 1/10W						
R681	BIRC4730105A00	C RESISTOR	47KΩ 1/10W						
R682	BIRC4730105A00	C RESISTOR	47KΩ 1/10W						

△ Symbol No.	Part No.	Part Name	Description	Local
S606	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
S607	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
S608	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
S609	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
S610	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
S611	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
S612	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
S613	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
S614	BI8SKRGAED0P0	TACT SWITCH	SKRGAED010	
SP201	BI2301571X	SPK TERMINAL	4P	
VFD1	BI270BI2401X	VFD	HNA-11MS38	
X401	BI29ZTA8.00P015	C RESONATOR	8MHz	
X402	BI2101012	CRYSTAL	32.768KHz	
			8P FOR VFD	
XXXXX	BI1206351X	CABLE	BN651TO KEY	
			BN652	
XXXXX	BIRT103THMSP01	THERMISTOR	10K	
ZD161	UZ30B	Z DIODE	BI3UZBI30BSDM0	
ZD162	UZ6.2BSB	Z DIODE	BI3UZ6.2BSBM000	
ZD175	UZ5.6BSB	Z DIODE	BI3UZ5.6BSBM000	
ZD350	MTZJ3.3B	Z DIODE	BI3MTZJ33BM000	
			V	
ZD402	UZ4.7BSA	Z DIODE	BI3UZ4.7BSAM000	
ZD501	UZ4.7BSA	Z DIODE	BI3UZ4.7BSAM000	
ZD502	UZ4.7BSA	Z DIODE	BI3UZ4.7BSAM000	

CD board

Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local
IC701	BI116431X	IC	SIL9226X01-Q08	
IC703	BI118221X	IC	ICBA5927FM	
IC801	BI120281X	IC	S5L8310	
IC802	BI117401X	IC	K4S161622H-uc60	
IC803	BI118171X	IC	BH18FB1WG	
IC860	BI120961X	IC	TMC51F-G	
IC862	BI102024X	IC	KIA7805AP/API	
Q701	KTA1266GR	TRANSISTOR	BI2KTA1266GP00	
Q703	KTA1273Y	TRANSISTOR	BI2KTA1273YP000	
Q762	DTC114TK	DIGI TRANSISTOR	BI2DTC114TKA011	
Q858	DTC114YK	DIGI TRANSISTOR	BI2DTC114YKA018	
Q859	DTC114YK	DIGI TRANSISTOR	BI2DTC114YKA018	
Q860	2SC3052	TRANSISTOR	BI2SC3052FA013H	
Q861	KTC3205	TRANSISTOR	BI2KTC3205P0008	
Q862	KTA1273Y	TRANSISTOR	BI2KTA1273YP000	
Q863	DTC114TK	DIGI TRANSISTOR	BI2DTC114TKA011	
Q895	DTC114TK	DIGI TRANSISTOR	BI2DTC114TKA011	
Q896	KTA1273Y	TRANSISTOR	BI2KTA1273YP000	
D762	1SS133	FR DIODE	BI31SS133M000V7	
D803	1SS133	FR DIODE	BI31SS133M000V7	
D860	1SS355	DIODE	BI31SS355A0077	
D892	1SS133	FR DIODE	BI31SS133M000V7	
C701	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C702	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C703	BICC102500KA04	C CAPACITOR	1000pF 50V	
C704	BICE476160MP01	E CAPACITOR	47uF 16V	
C705	BICC102500KA04	C CAPACITOR	1000pF 50V	
C706	BICC102500KA04	C CAPACITOR	1000pF 50V	
C707	BICC103250KA04	C CAPACITOR	0.01uF 25V	
C708	BICC473500KA04	C CAPACITOR	0.047uF 50V	
C709	BICE227100MP01	E CAPACITOR	220uF 10V	
C710	BICE107100MP01	E CAPACITOR	100uF 10V	
C711	BICC040500CA04	C CAPACITOR	4pF 50V	
C712	BICC100500DA04	C CAPACITOR	10pF 50V	
C713	BICC682500KA04	C CAPACITOR	6800pF 50V	
C714	BICC821500JA04	C CAPACITOR	820pF 50V	
C715	BICE475500MP01	E CAPACITOR	4.7uF 50V	
C716	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C717	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C718	BICC102500KA04	C CAPACITOR	1000pF 50V	
C719	BICC104500KA04	C CAPACITOR	0.1uF 50V	

△ Symbol No.	Part No.	Part Name	Description	Local
C720	BICC333160KA04	C CAPACITOR	0.033UF	
C721	BICC474100KA04	C CAPACITOR	0.47uF 10V	
C722	BICC474100KA04	C CAPACITOR	0.47uF 10V	
C723	BICC103250KA04	C CAPACITOR	0.01uF 25V	
C724	BICC103250KA04	C CAPACITOR	0.01uF 25V	
C725	BICC683160KA04	C CAPACITOR	0.068uF 16V	
C726	BICE106160MP01	E CAPACITOR	10uF 16V	
C727	BICC154100KA04	C CAPACITOR	0.15UF	
C728	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C729	BICC102500KA04	C CAPACITOR	1000pF 50V	
C730	BICC222500KA04	C CAPACITOR	2200pF 50V	
C731	BICC333160KA04	C CAPACITOR	0.033UF	
C732	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C733	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C741	BICC391500JA04	C CAPACITOR	390pF 50V	
C742	BICC391500JA04	C CAPACITOR	390pF 50V	
C743	BICC391500JA04	C CAPACITOR	390pF 50V	
C744	BICC391500JA04	C CAPACITOR	390pF 50V	
C755	BICC102500KA04	C CAPACITOR	1000pF 50V	
C756	BICC102500KA04	C CAPACITOR	1000pF 50V	
C761	BICE477100MP01	E CAPACITOR	470uF 10V	
C762	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C763	BICE107100MP01	E CAPACITOR	100uF 10V	
C803	BICE107100MP01	E CAPACITOR	100uF 10V	
C804	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C805	BICC270500JA04	C CAPACITOR	27pF 50V	
C806	BICC270500JA04	C CAPACITOR	27pF 50V	
C807	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C808	BICE107100MP01	E CAPACITOR	100uF 10V	
C809	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C810	BICC122500KA04	C CAPACITOR	1200pF 50V	
C811	BICC122500KA04	C CAPACITOR	1200pF 50V	
C812	BICC122500KA04	C CAPACITOR	1200pF 50V	
C813	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C814	BICE107100MP01	E CAPACITOR	100uF 10V	
C815	BICE107100MP01	E CAPACITOR	100uF 10V	
C816	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C817	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C818	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C819	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C820	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C821	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C822	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C823	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C825	BICC103250KA04	C CAPACITOR	0.01uF 25V	
C826	BICE106160MP01	E CAPACITOR	10uF 16V	
C827	BICE106160MP01	E CAPACITOR	10uF 16V	
C835	BICC100500DA04	C CAPACITOR	10pF 50V	
C841	BICC102500KA04	C CAPACITOR	1000pF 50V	
C842	BICC330500JA04	C CAPACITOR	33pF 50V	
C843	BICC330500JA04	C CAPACITOR	33pF 50V	
C844	BICC330500JA04	C CAPACITOR	33pF 50V	
C858	BICE225500MP11	E CAPACITOR	2.2uF/50V	
C859	BICE106500MP11	E CAPACITOR	10uF 50V	
C861	BICC103250KA04	C CAPACITOR	0.01uF 25V	
C862	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C863	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C864	BICC181500JA04	C CAPACITOR	180pF 50V	
C865	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C866	BICC821500JA04	C CAPACITOR	820pF 50V	
C867	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C868	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C869	BICC220500JA04	C CAPACITOR	22pF 50V	
C870	BICC220500JA04	C CAPACITOR	22pF 50V	
C871	BICE477100MP01	E CAPACITOR	470uF 10V	
C872	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C873	BICE227100MP01	E CAPACITOR	220uF 10V	
C874	BICE227100MP01	E CAPACITOR	220uF 10V	
C875	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C876	BICC104500KA04	C CAPACITOR	0.1uF 50V	
C877	BICC104500KA04	C CAPACITOR	0.1uF 50V	
R701	BIRC2200105A00	C RESISTOR	22Ω 1/10W	
R702	BIRC1040105A00	C RESISTOR	100KΩ 1/10W	
R703	BIRC5630105A00	C RESISTOR	56KΩ 1/10W	
R704	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R704	BIRC5630105A00	C RESISTOR	56KΩ 1/10W	
R705	BIRC5630105A00	C RESISTOR	56KΩ 1/10W	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R706	BIRC5630105A00	C RESISTOR	56KΩ 1/10W		R867	BIRC2200105A00	C RESISTOR	22Ω 1/10W	
R707	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		R868	BIRC2200105A00	C RESISTOR	22Ω 1/10W	
R708	BIRC8200105A00	C RESISTOR	82Ω 1/10W		R869	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R709	BIRC5620105A00	C RESISTOR	5.6KΩ 1/10W		R870	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R710	BIRC1010105A00	C RESISTOR	100Ω 1/10W		R871	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R711	BIRC6220105A00	C RESISTOR	6.2KΩ 1/10W		R872	BIRC1010085M00	C RESISTOR	100Ω 1/8W J	
R714	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R873	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R715	BIRC1830105A00	C RESISTOR	18KΩ 1/10W		R874	BIRC4720085A00	C RESISTOR	4.7KΩ 1/8W	
R716	BIRC2230105A00	C RESISTOR	22KΩ 1/10W		R876	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R717	BIRC1050105A00	C RESISTOR	1MΩ 1/10W		R878	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R718	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R879	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R719	BIRC5620105A00	C RESISTOR	5.6KΩ 1/10W		R880	BIRC1010105A00	C RESISTOR	100Ω 1/10W	
R720	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		R881	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R721	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R882	BIRC3900105A00	C RESISTOR	39Ω 1/10W	
R722	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		R883	BIRC3900105A00	C RESISTOR	39Ω 1/10W	
R723	BIRC2240105A00	C RESISTOR	220KΩ 1/10W		R884	BIRC1530105A00	C RESISTOR	15KΩ 1/10W	
R724	BIRC8230105A00	C RESISTOR	82KΩ 1/10W		R885	BIRC1530105A00	C RESISTOR	15KΩ 1/10W	
R725	BIRC1530105A00	C RESISTOR	15KΩ 1/10W		R886	BIRC4730105A00	C RESISTOR	47KΩ 1/10W	
R726	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		R887	BIRC1050105A00	C RESISTOR	1MΩ 1/10W	
R727	BIRC1840105A00	C RESISTOR	180KΩ		R889	BIRC1220085M00	C RESISTOR	1.2KΩ 1/8W	
R728	BIRC2230105A00	C RESISTOR	22KΩ 1/10W		R890	BIRC4720105A00	C RESISTOR	4.7KΩ 1/10W	
R729	BIRC1840105A00	C RESISTOR	180KΩ		R891	BIRC2210105A00	C RESISTOR	220Ω 1/10W	
R730	BIRC8230105A00	C RESISTOR	82KΩ 1/10W		R892	BIRC2210105A00	C RESISTOR	220Ω 1/10W	
R731	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		R895	BIRC1220105A00	C RESISTOR	1.2KΩ 1/10W	
R732	BIRC4730105A00	C RESISTOR	47KΩ 1/10W		R896	BIRC1030105A00	C RESISTOR	10KΩ 1/10W	
R733	BIRC5630105A00	C RESISTOR	56KΩ 1/10W		R897	BIRC3300045M00	C RESISTOR	33Ω 1/4W	
R746	BIRC1010085M00	C RESISTOR	100Ω 1/8W J		R898	BIRC3300045M00	C RESISTOR	33Ω 1/4W	
R747	BIRC1010085M00	C RESISTOR	100Ω 1/8W J		L710	BI26100000KM00	FIXED INDUCTOR	10uH	
R751	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		L761	BI18A843556N00	FILTER BEAD	843556	
R753	BIRC1330105A00	C RESISTOR	13KΩ 1/10W		L801	BI26100000KN00	FIXED INDUCTOR	10uH	
R754	BIRC1330105A00	C RESISTOR	13KΩ 1/10W		L802	BI26100000KN00	FIXED INDUCTOR	10uH	
R755	BIRC1330105A00	C RESISTOR	13KΩ 1/10W		L803	BI26100000KM00	FIXED INDUCTOR	10uH	
R756	BIRC1330105A00	C RESISTOR	13KΩ 1/10W		L804	BI26100000KM00	FIXED INDUCTOR	10uH	
R757	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		L805	BI26100000KM00	FIXED INDUCTOR	10uH	
R758	BIRC4720085M00	C RESISTOR	4.7KΩ 1/8W		L806	BI26100000KN00	FIXED INDUCTOR	10uH	
R759	BIRC4720085M00	C RESISTOR	4.7KΩ 1/8W		L808	BI18A843556N00	FILTER BEAD	843556	
R763	BIRC1220105A00	C RESISTOR	1.2KΩ 1/10W		L809	BI18A916121A00	FERRITE BEAD	120Ω	
R764	BIRC1030105A00	C RESISTOR	10KΩ 1/10W		L822	BI18A843556N00	FILTER BEAD	843556	
R765	BIRC2210105A00	C RESISTOR	220Ω 1/10W		L860	BI26100000KM00	FIXED INDUCTOR	10uH	
R771	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		BN702	BI12P60178X	WIRE	6P FOR CD PICUP	
R802	BIRC1020085N00	C RESISTOR	1KΩ 1/8W		BN703	BI12P50169X	CONNECTOR WIRE	5P FOR CD MECHA	
R803	BIRC1020085N00	C RESISTOR	1KΩ 1/8W		BN803	BI12P80125X	WIRE	8P FOR MAIN CN502	
R804	BIRC3310105A00	C RESISTOR	330Ω 1/10W		CN701	BI12S160043V	SOCKET	16P	
R805	BIRC1050105A00	C RESISTOR	1MΩ 1/10W		CN801	BI12S200012V	CONNECTOR	20P	
R806	BIRC1020085M00	C RESISTOR	1KΩ 1/8W J		CN802	BI12S110021	FFC CONNECTOR	11P	
R807	BIRC3310105A00	C RESISTOR	330Ω 1/10W		CN860	BI12S400561X	CONNECTOR	4P	
R808	BIRC1010085M00	C RESISTOR	100Ω 1/8W J		F877	BIRC1010085N00	C RESISTOR	100Ω 1/8W	
R809	BIRC1210085M00	C RESISTOR	120Ω 1/8W		FB861	BI18A916121A00	FERRITE BEAD	120Ω	
R810	BIRC1210105A00	C RESISTOR	120Ω 1/10W		FB862	BI18A916121A00	FERRITE BEAD	120Ω	
R811	BIRC1010105A00	C RESISTOR	100Ω 1/10W		FB864	BI18A843556N00	FILTER BEAD	843556	
R812	BIRC1230105A00	C RESISTOR	12KΩ 1/10W		FB865	BI18A916121A00	FERRITE BEAD	120Ω	
R813	BIRC1230105A00	C RESISTOR	12KΩ 1/10W		FB866	BI18A916121A00	FERRITE BEAD	120Ω	
R814	BIRC1010105A00	C RESISTOR	100Ω 1/10W		FB867	BI18A843556N00	FILTER BEAD	843556	
R836	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		JR701	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R837	BIRC1040105A00	C RESISTOR	100KΩ 1/10W		JR703	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R841	BIRC1020085N00	C RESISTOR	1KΩ 1/8W		JR707	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R842	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		JR708	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R843	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		JR801	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R844	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		JR803	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R845	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		JR804	BIRC0000085A00	C RESISTOR	0Ω 1/8W	
R846	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		JR861	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R847	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		JR709J	BIRC0000105A00	C RESISTOR	0Ω 1/10W	
R848	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		X801	BI2102521X	CRYSTAL	16.9344MHz	
R849	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		X860	BI2102391V	CRYSTAL	12MHz	
R850	BIRC1020105A00	C RESISTOR	1KΩ 1/10W		ZD860	UZ3.6BSB	Z DIODE	BI3UZ3.6BSBM000	
R851	BIRC1020105A00	C RESISTOR	1KΩ 1/10W						
R852	BIRC1020105A00	C RESISTOR	1KΩ 1/10W						
R853	BIRC1020105A00	C RESISTOR	1KΩ 1/10W						
R854	BIRC1020085M00	C RESISTOR	1KΩ 1/8W J						
R858	BIRC2230105A00	C RESISTOR	22KΩ 1/10W						
R859	BIRC1030105A00	C RESISTOR	10KΩ 1/10W						
R860	BIRC2230105A00	C RESISTOR	22KΩ 1/10W						
R861	BIRC2200105A00	C RESISTOR	22Ω 1/10W						
R862	BIRC2200105A00	C RESISTOR	22Ω 1/10W						
R863	BIRC2200105A00	C RESISTOR	22Ω 1/10W						
R864	BIRC2200105A00	C RESISTOR	22Ω 1/10W						
R865	BIRC2200105A00	C RESISTOR	22Ω 1/10W						
R866	BIRC2200105A00	C RESISTOR	22Ω 1/10W						

Power trans board

Block No. [0][3]

△ Symbol No.	Part No.	Part Name	Description	Local
IC901	BI101851X	IC	NJM78L05	
Q903	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q908	DTC114YS	DIGI TRANSISTOR	BI2DTC114YKA011	
Q909	DTC114YS	DIGI TRANSISTOR	BI2DTC114YKA011	
D901	1N4001	DIODE	BI31N4001M0006	
D902	1N4001	DIODE	BI31N4001M0006	
D903	1N4001	DIODE	BI31N4001M0006	
D904	1N4001	DIODE	BI31N4001M0006	
D905	1N4001	DIODE	BI31N4001M0006	
D907	1SS133	FR DIODE	BI31SS133M000V7	
D908	1SS133	FR DIODE	BI31SS133M000V7	
C903	BICH104500KM01	C CAPACITOR	0.1uF 50V	
C904	BICE477250MP01	E CAPACITOR	470uF 25V	
C905	BICE227100MP01	E CAPACITOR	220uF 10V	
C906	BICE476160MP01	E CAPACITOR	47uF 16V	
C907	BICH472500KM01	C CAPACITOR	4700pF 50V	
C908	BICE335500MP01	E CAPACITOR	3.3uF 50V	
R902	BIRC5620085M00	C RESISTOR	5.6KΩ 1/8W	
R903	BIRC3320085M00	C RESISTOR	3.3KΩ 1/8W	
R905	BIRC3300085M00	C RESISTOR	33Ω 1/8W	
R906	BIRC4720085M00	C RESISTOR	4.7KΩ 1/8W	
R907	BIRC1220085M00	C RESISTOR	1.2KΩ 1/8W	
R908	BIRC4720085M00	C RESISTOR	4.7KΩ 1/8W	
R909	BIRC1030085M00	C RESISTOR	10KΩ 1/8W J	
△ L901	BI2601102V	LINE FILTER	WIRE	
BN903	BI12P60178X	WIRE	6P FOR MAIN CN103	
CN901	BI12S200691V	CONNECTOR	2P	
CN902	BI12S200691V	CONNECTOR	2P	
FC901	BI2011960101X1	FUSE HOLDER		
FC902	BI2011960101X1	FUSE HOLDER		
△ RY901	BI8RL00171V	RELAY	DC9V 250mW KTC3199GR	

Wiring

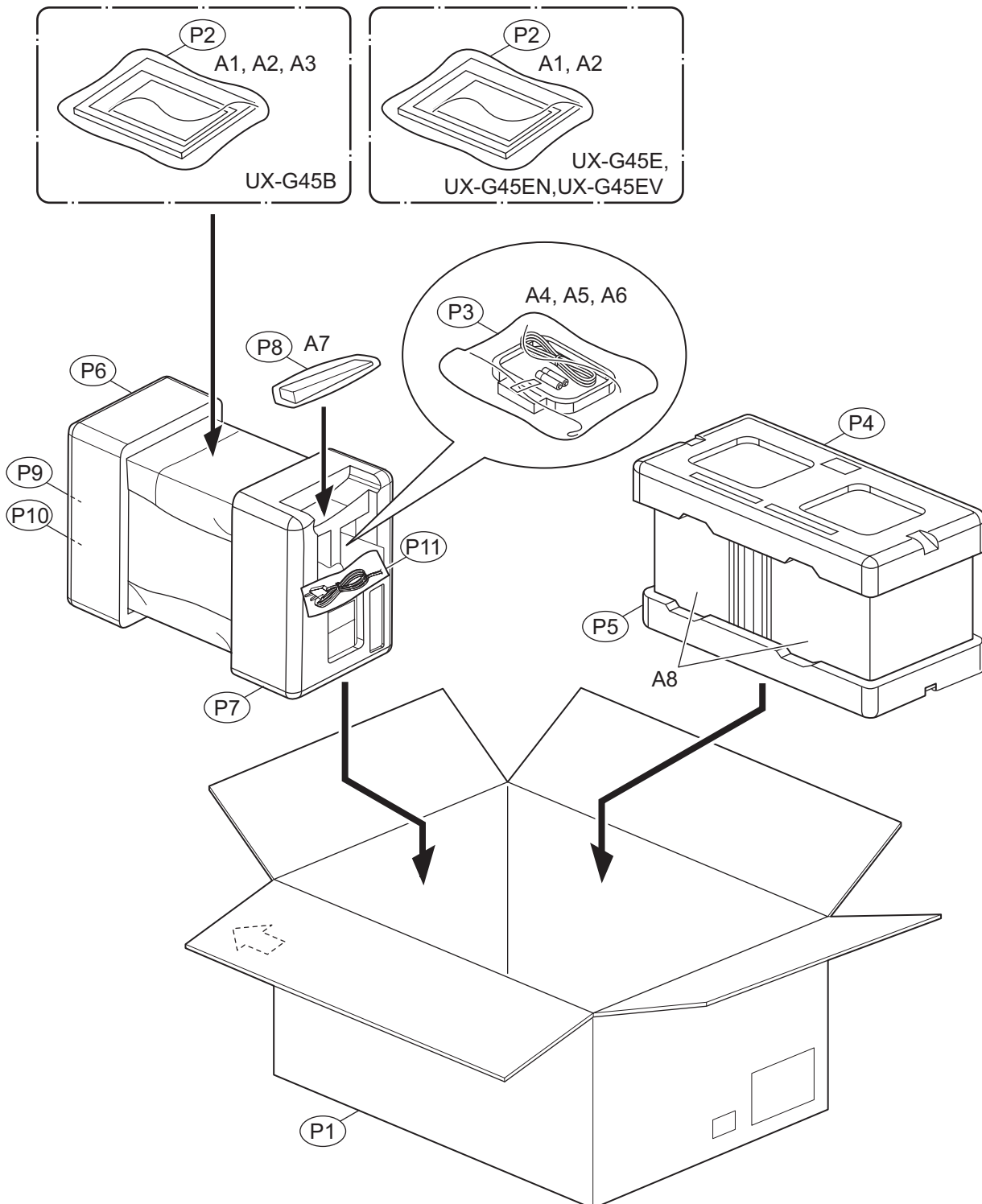
Block No. [0][4]

△ Symbol No.	Part No.	Part Name	Description	Local
XXXXX	BI1205291Y	FFC CABLE	16P FOR CD CN701 TO CD PICUP	
XXXXX	BI1207362Y	FFC CABLE	15P FOR MAIN CN351 TO TUNER	
XXXXX	BI1207382Y	FFC CABLE	20P FOR CD CN801 TO MAIN CN401	
XXXXX	BI1207372Y	FFC CABLE	11P FOR CD CN802 TO MAIN CN402	
XXXXX	BI1207392Y	FFC CABLE	16P FOR VFD CN601 TO MAIN CN403	
XXXXX	BI18A00181	FERRITE BEAD	25X15X15	

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDS are available.



Packing and Accessories

Block No. [M][3][M][M]

△ Symbol No.	Part No.	Part Name	Description	Local
A 1	BI440001670000	INST BOOK	ENG LVT1520-001A	G45B
A 1	BI440001651001	INST BOOK	GER FRE ITA DUT LVT1520-002A	G45E
A 1	BI440001671000	INST BOOK	SPA DAN FIN SWE POR LVT1520-003A	G45EN
A 1	BI440001672000	INST BOOK	RUS HUN CZE POL LVT1520-004A	G45EV
A 2	-----	WARRANTY CARD	BT-54028-1 0905	
A 3	BI400083291001	REGIST CARD		G45B
A 4	-----	BATTERY	(x2)	
A 5	BIAN01351Y	AM LOOP ANT		
A 6	BIAN01371Y	ANT WIRE		
A 7	BI643UXG45020	REMOTE CONTROL UNIT		
A 8	BI644UXG45202S	SPEAKER SYSTEM		
P 1	BI430002064001	CARTON		
P 2	BI470011031004	POLY BAG	FOR INST BOOK	
P 3	BI470011057004	POLY BAG	FOR ANT LOOP	
P 4	BI450012100000	POLY FOAM TOP	FOR SPK	
P 5	BI450012101000	POLY FOAM BOTT	FOR SPK	
P 6	BI450012097000	POLY FOAM FRONT	FOR UNIT	
P 7	BI450012096000	POLY FOAM REAR	FOR UNIT	
P 8	BI470011526000	POLY BAG	FOR REMOCON	
P 9	BI450032001000	PROTECT SHEET		
P 10	BI450011134001	SHEET CROTH		
P 11	BI470011067002	POLY BAG	FOR AC CORD	

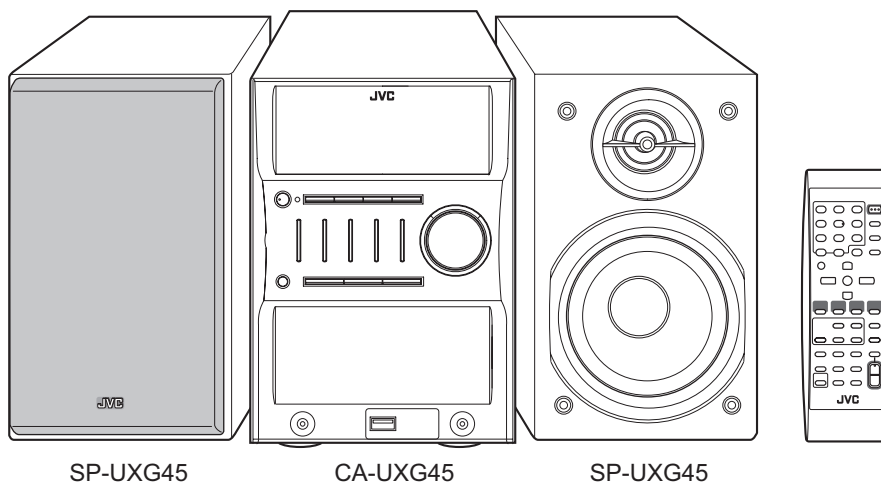
JVC

SCHEMATIC DIAGRAMS

MICRO COMPONENT SYSTEM

UX-G45B,UX-G45E UX-G45EN,UX-G45EV

CD-ROM No.SML200606



COMPACT
disc
DIGITAL AUDIO

MP3
PLAYBACK

Radio Data System

MDLP **AV COMPU LINK** **3D**
Digital Direct Progressive Scan 3D-PHONIC

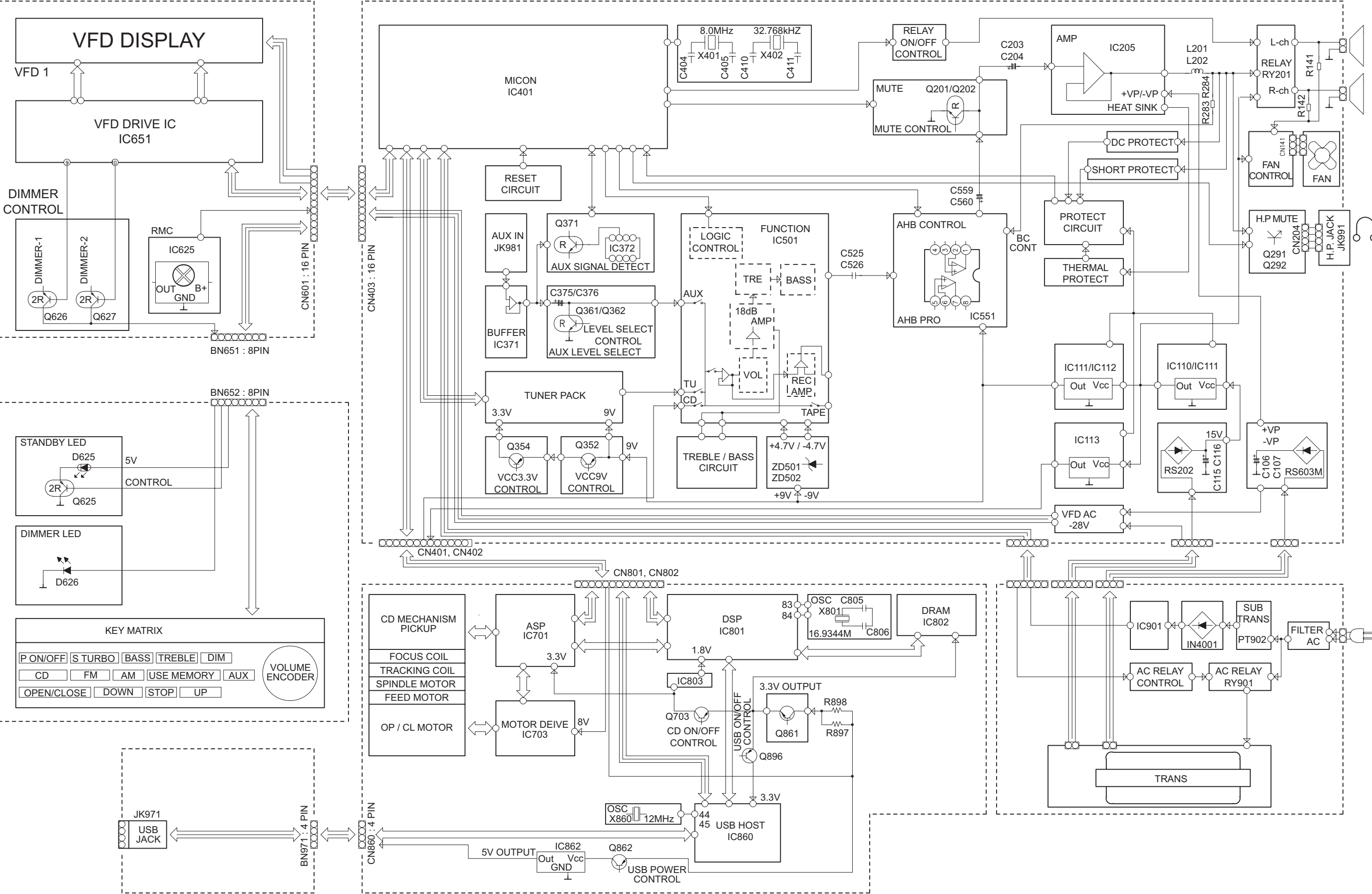
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Contents

Block diagrams	2-1
Standard schematic diagrams	2-2
Printed circuit boards	2-7 to 9

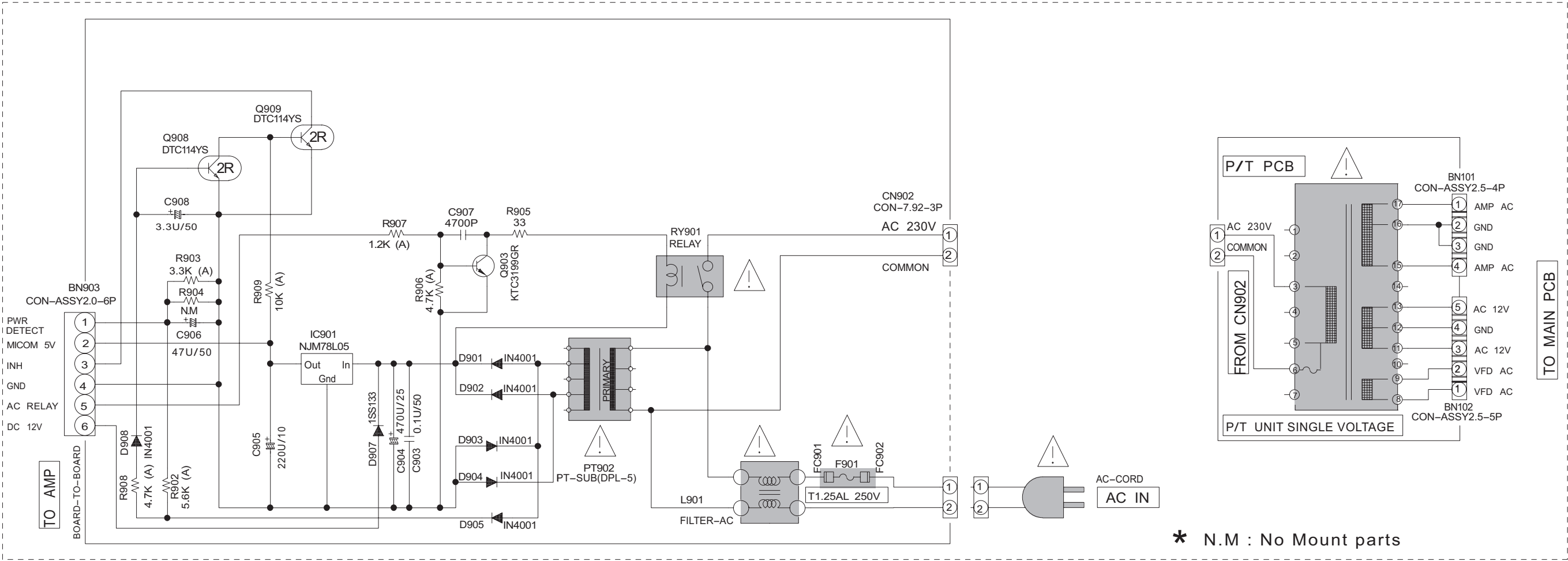
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▬) and ICP (●) or identified by the "A" mark nearby are critical for safety.

Block diagram



Standard schematic diagram

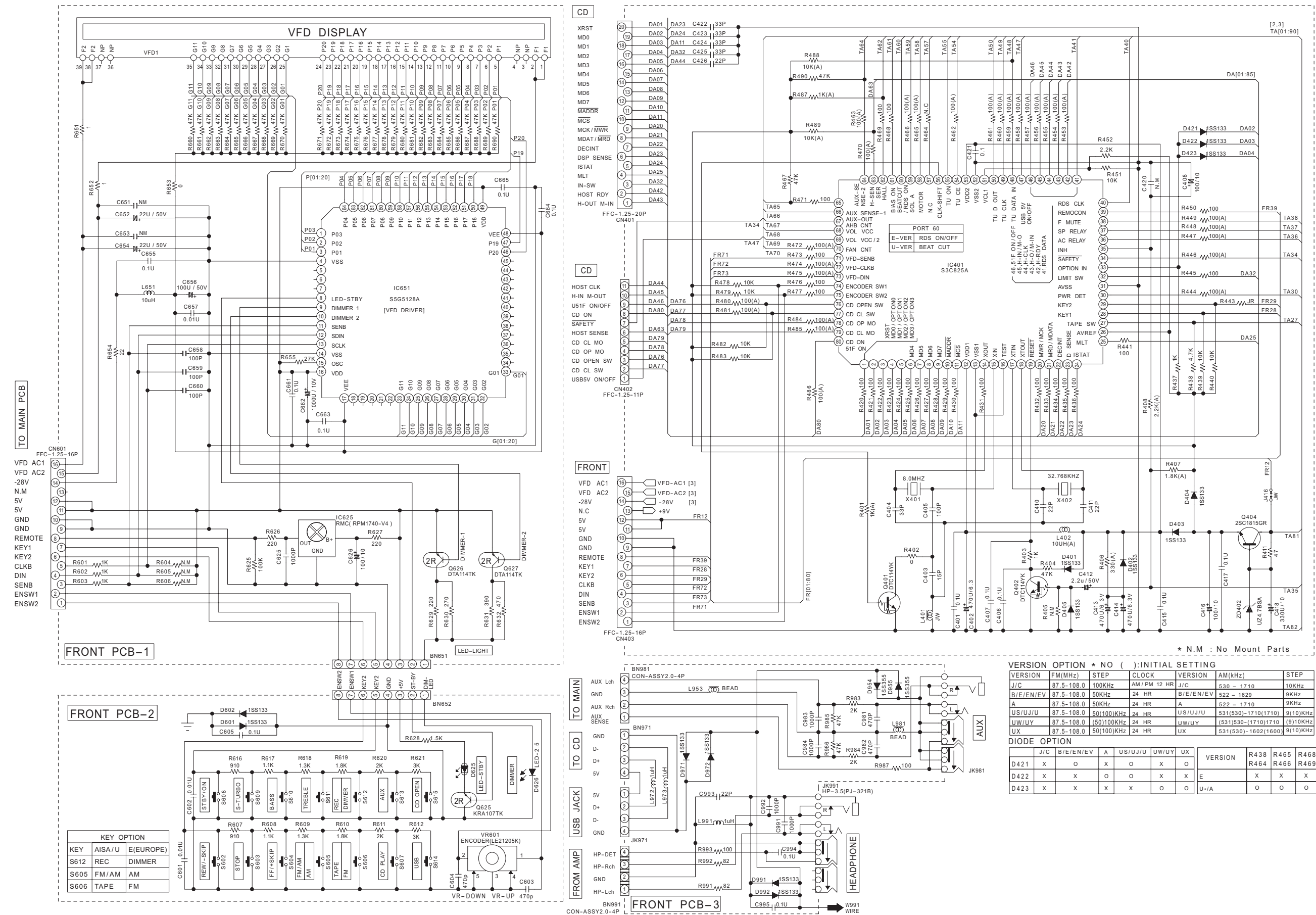
■ Primary section



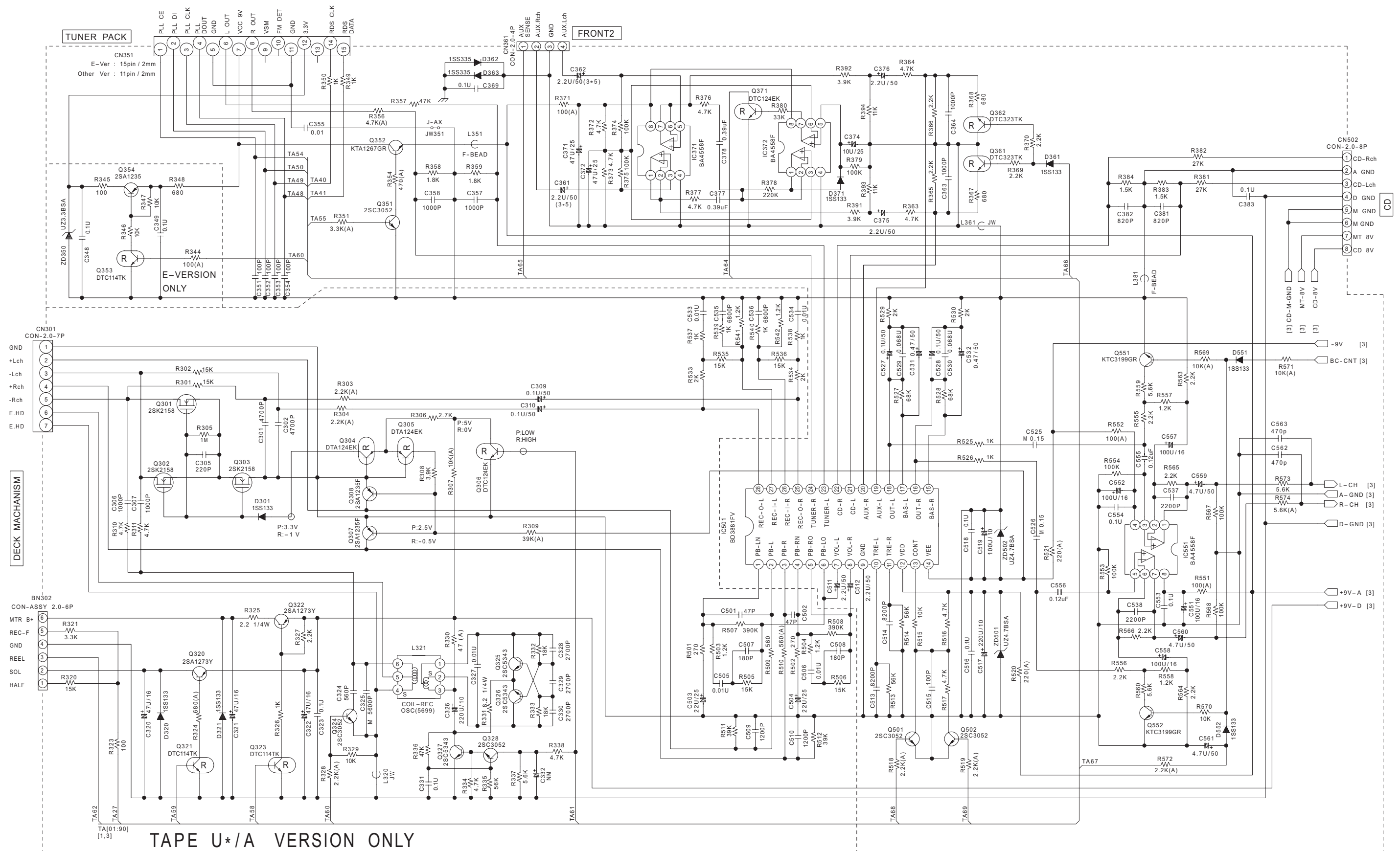
* N.M : No Mount parts

⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

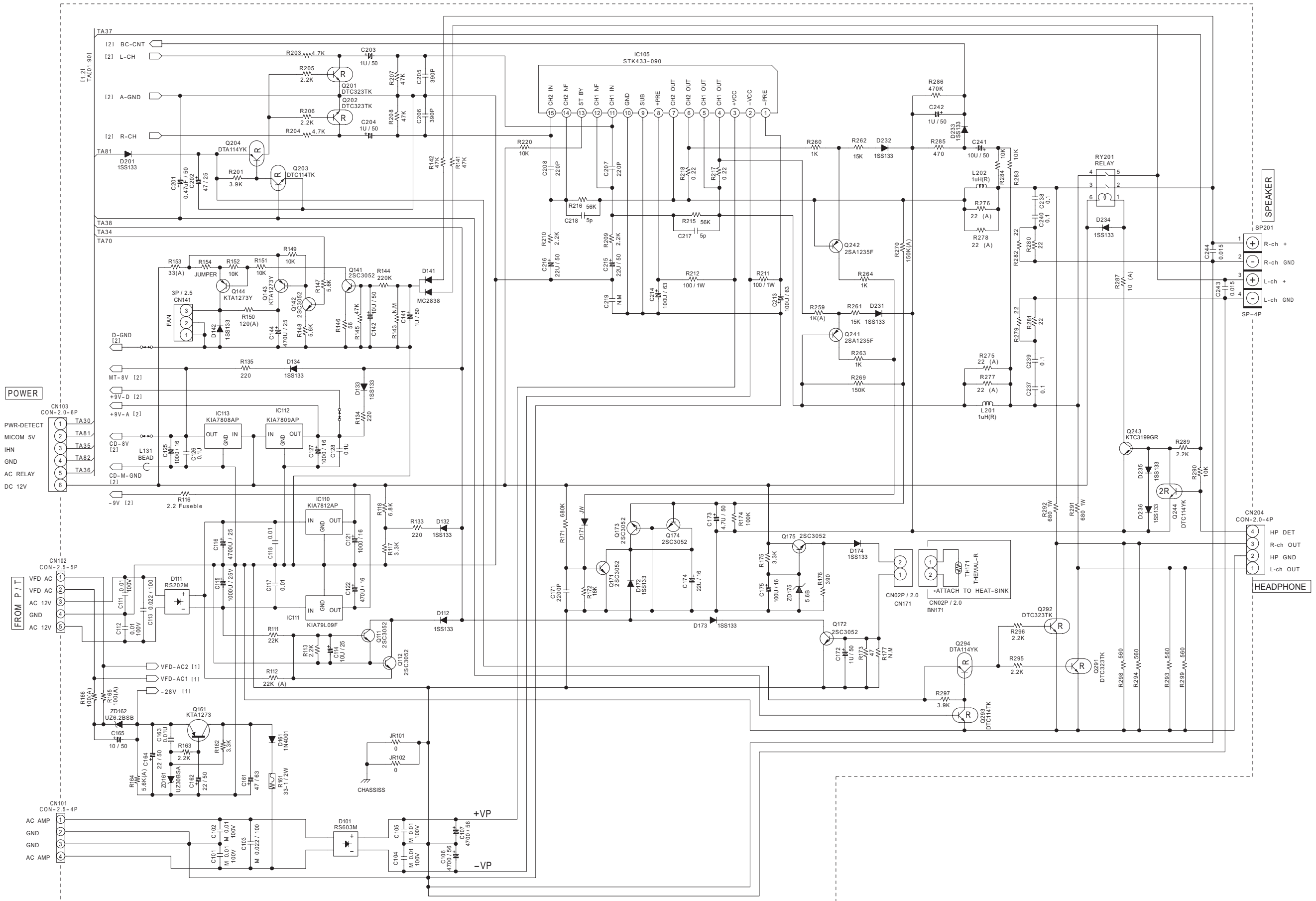
■ Main micon and Front section



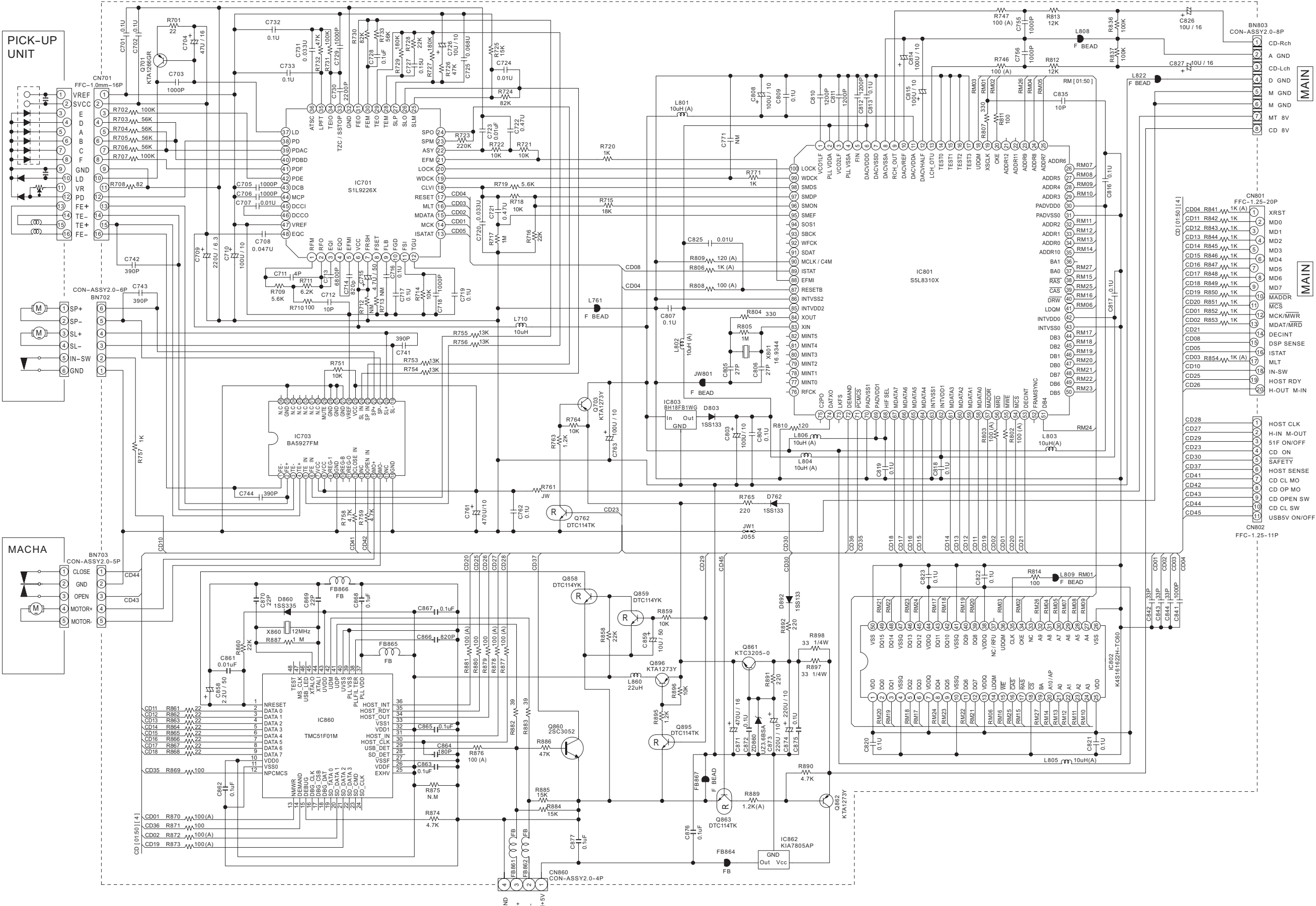
■ Main section



■ Amplifier section



■ CD section

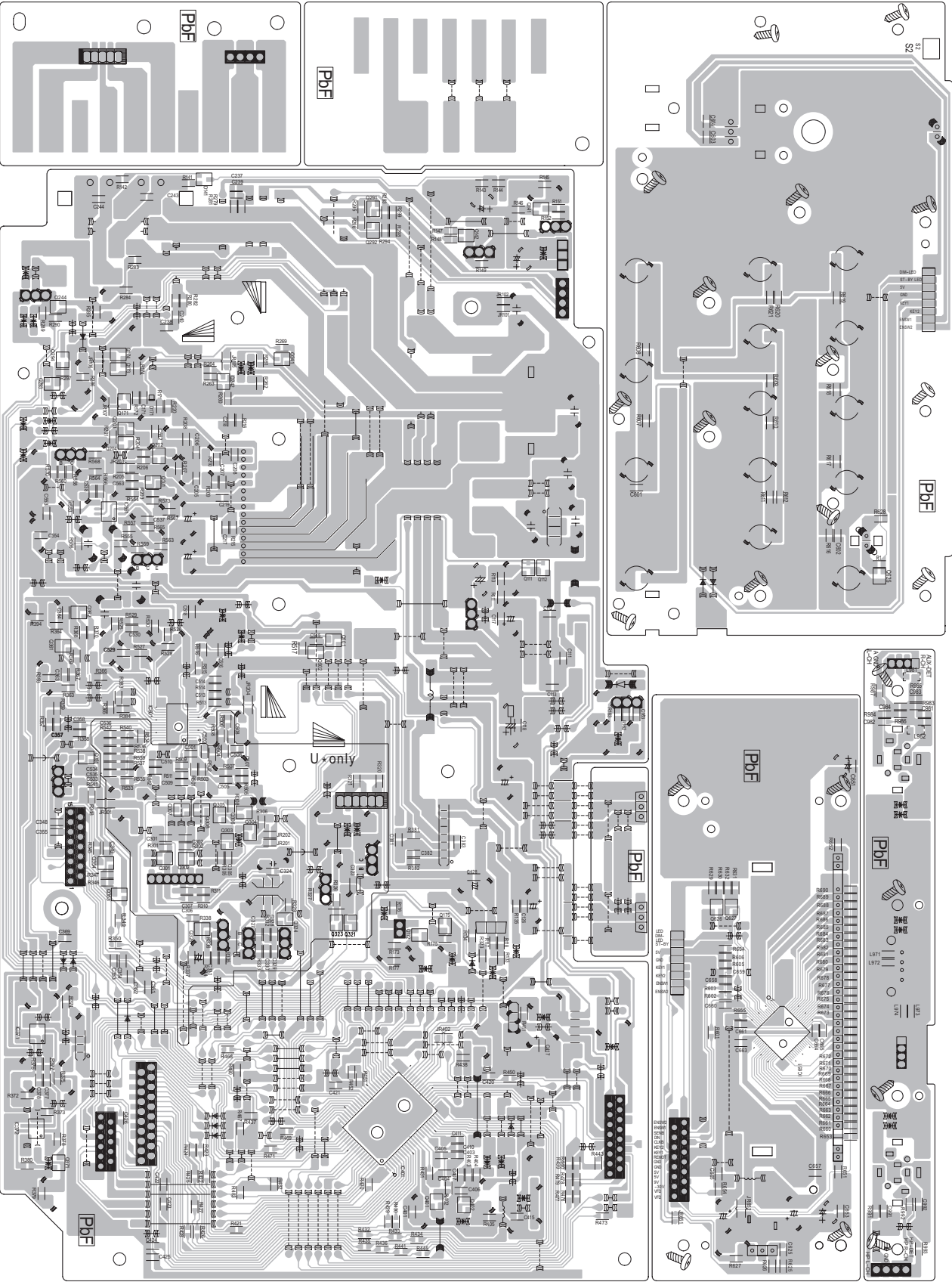


Printed circuit boards

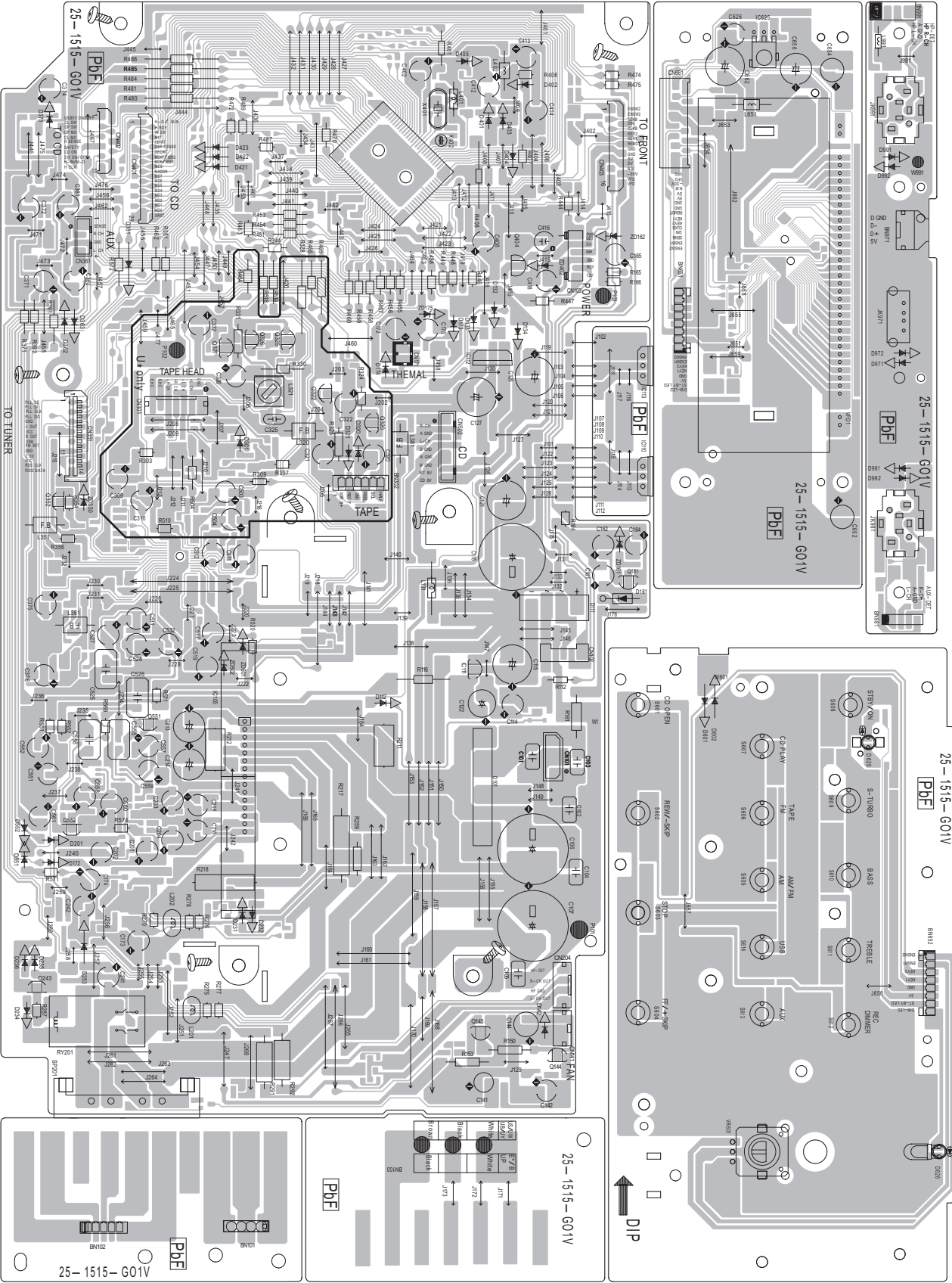
■ Main board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

forward side



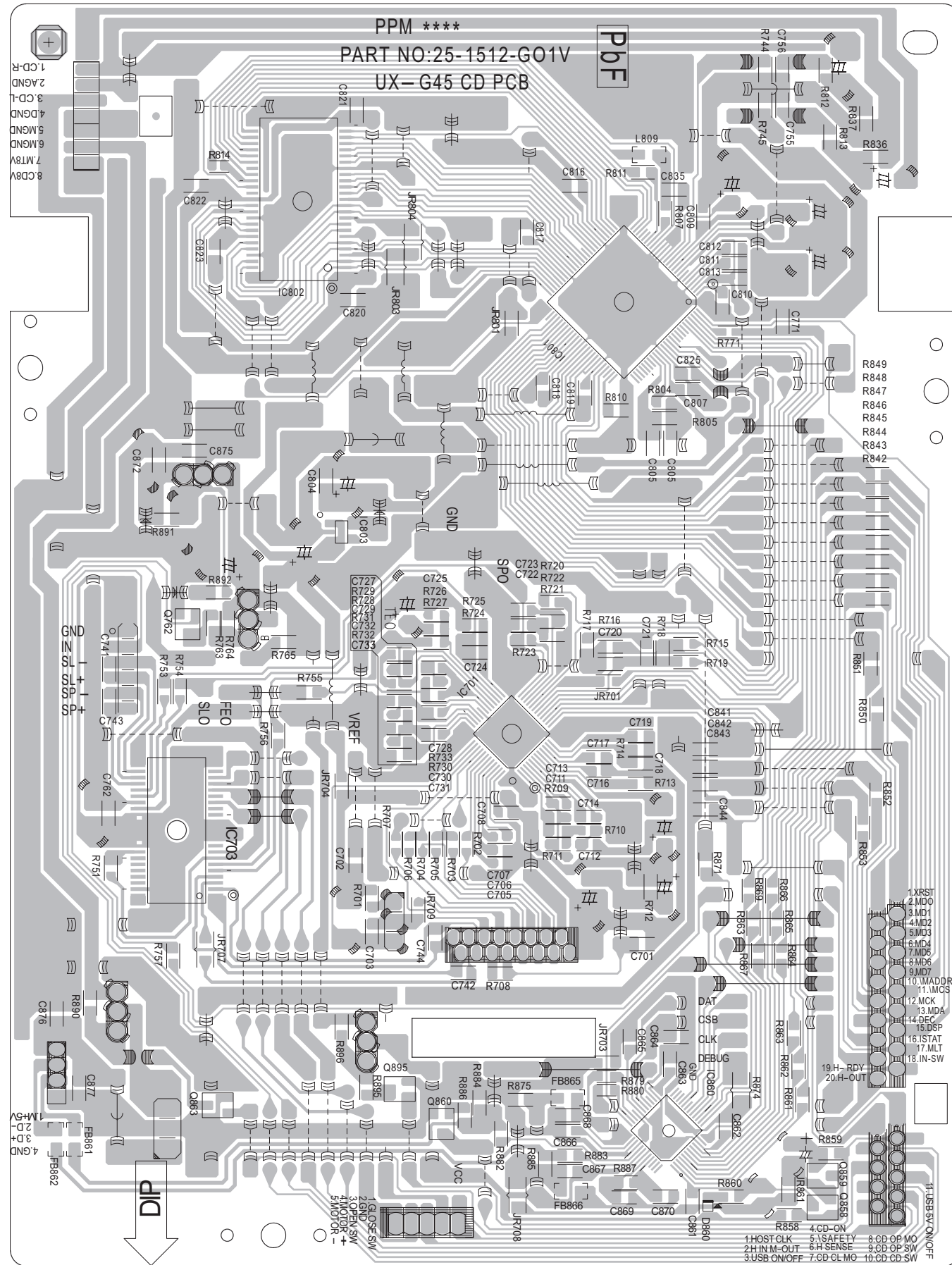
reverse side



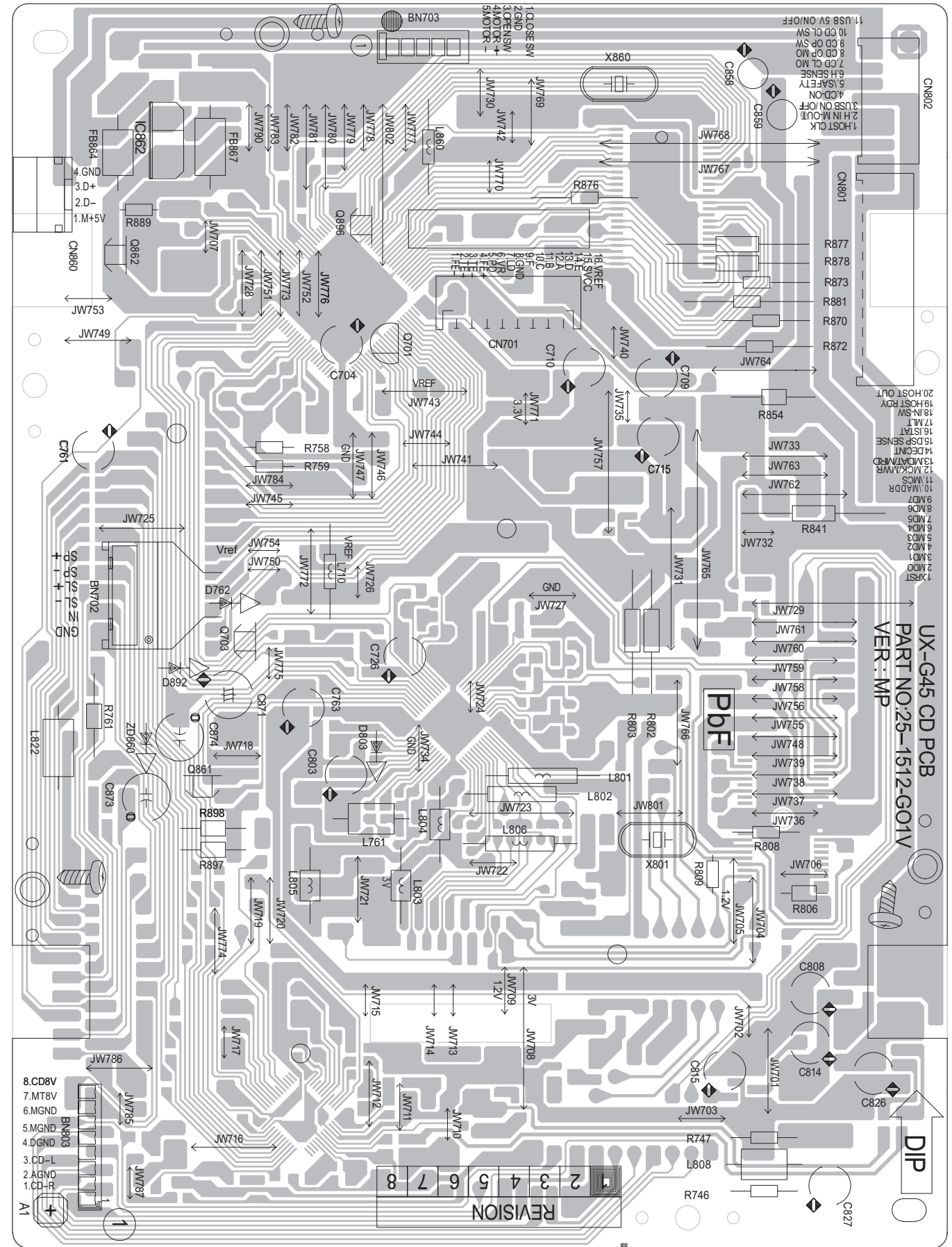
■ **CD board**

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

forward side

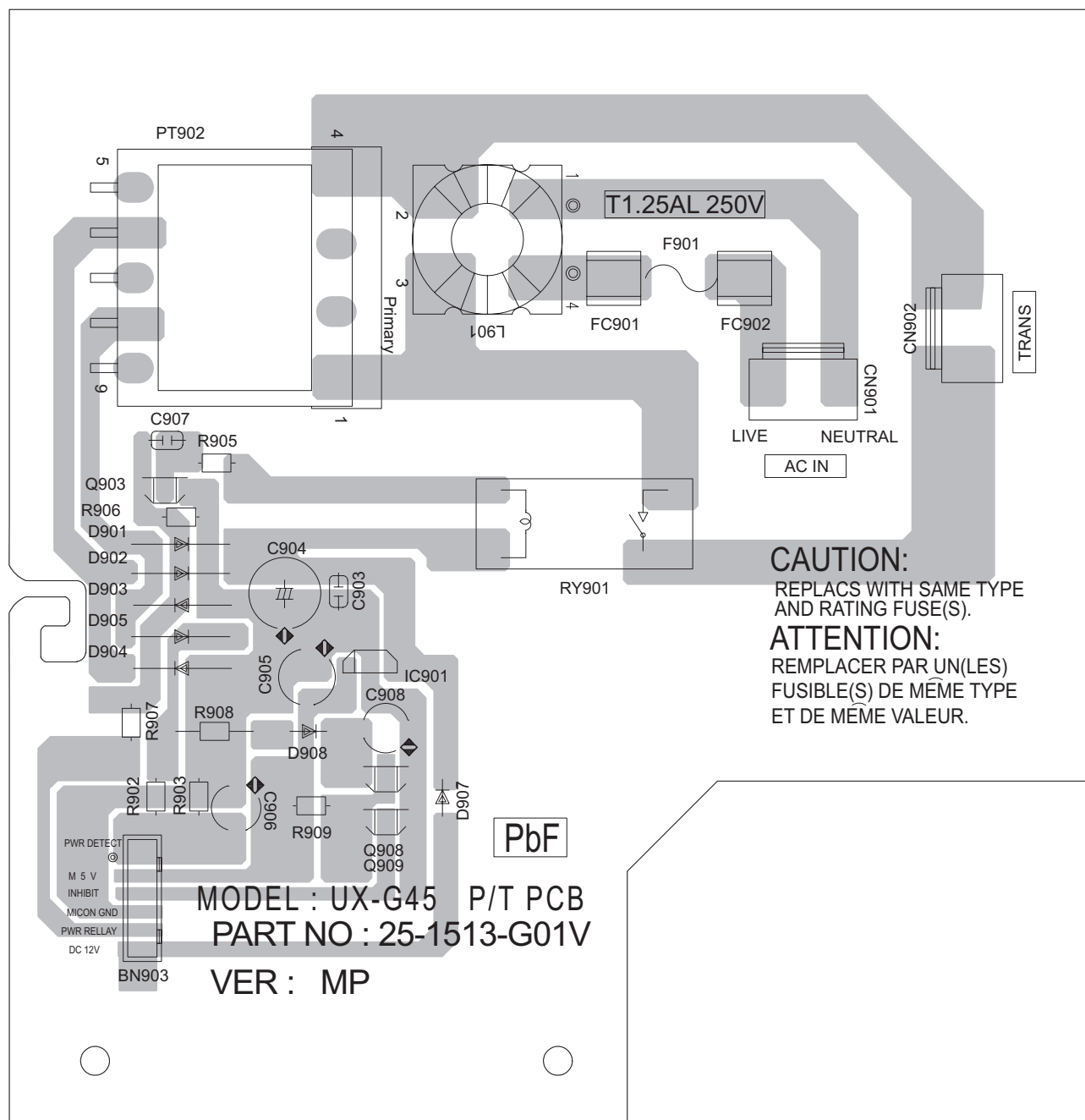


reverse side



Power trans board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)





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(No.MB533SCH)



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