

MICRO COMPONENT SYSTEM MCR-E320 COMPACT DISC RECEIVER/SPEAKER SYSTEM

CRX-E320/NX-E700

SERVICE MANUAL

The MCR-E320 consists of the CRX-E320 and the NX-E700.
MCR-E320 は CRX-E320 および NX-E700 で構成されています。

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

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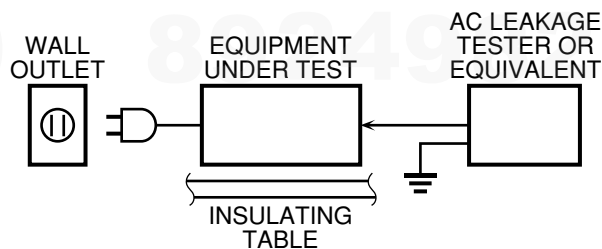


このサービスマニュアルは、エコマーク認定の再生紙を使用しています。
This Service Manual uses recycled paper.



■ TO SERVICE PERSONNEL

1. Critical Components Information
Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.
 2. Leakage Current Measurement (For 120V Models Only)
When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.
- Meter impedance should be equivalent to 1500 ohms shunted by 0.15 μ F.



- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

About lead free solder / 無鉛ハンダについて

All of the P.C.B.s installed in this unit and solder joints are soldered using the lead free solder.

Among some types of lead free solder currently available, it is recommended to use one of the following types for the repair work.

- Sn + Ag + Cu (tin + silver + copper)
- Sn + Cu (tin + copper)
- Sn + Zn + Bi (tin + zinc + bismuth)

本機に搭載されているすべての基板およびハンダ付けによる接合部は無鉛ハンダでハンダ付けされています。

無鉛ハンダにはいくつかの種類がありますが、修理時には下記のような無鉛ハンダの使用を推奨します。

- Sn+Ag+Cu(錫+銀+銅)
- Sn+Cu(錫+銅)
- Sn+Zn+Bi(錫+亜鉛+ビスマス)

Caution:

As the melting point temperature of the lead free solder is about 30°C to 40°C (50°F to 70°F) higher than that of the lead solder, be sure to use a soldering iron suitable to each solder.

注意：

無鉛ハンダの融点温度は通常の鉛入りハンダに比べ30~40°C程度高くなっていますので、それぞれのハンダに合ったハンダごてをご使用ください。

WARNING: Laser Safety

This product contains a laser beam component. This component may emit invisible, as well as visible radiation, which may cause eye damage. To protect your eyes and skin from laser radiation, the following precautions must be used during servicing of the unit.

- 1) When testing and/or repairing any component within the product, keep your eyes and skin more than 30 cm away from the laser pick-up unit at all times. Do not stare at the laser beam at any time.
- 2) Do not attempt to readjust, disassemble or repair the laser pick-up, unless noted elsewhere in this manual.
- 3) CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

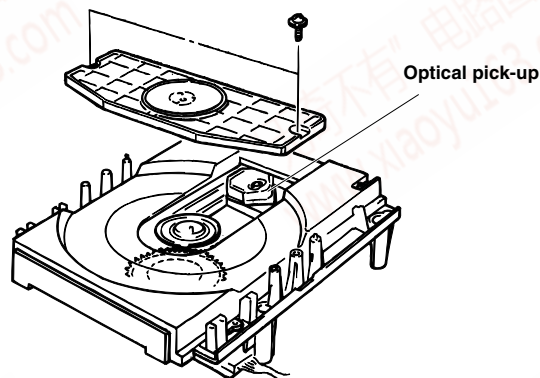
Laser Emitting conditions:

- 1) When the top cover is removed, and the STANDBY/ON SW is turned to the "ON" position, the laser component will emit a beam for several seconds to detect if a disc is present. During this time (5-10 sec.) the laser may radiate through the lens of the laser pick-up unit. Do not attempt any servicing during this period!
If no disc is detected, the laser will stop emitting the beam. When a disc is loaded, you will not be exposed to any laser emissions.
- 2) The laser power level can be adjusted with the VR on the pick-up PWB, however, this level has been set by the factory prior to shipping from the factory. Do not adjust this laser level control unless instruction is provided elsewhere in this manual. Adjustment of this control can increase the laser emission level from the device.

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: Continuous
- Laser Output: Max. 44.6 μ W *

* This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block.



VARO!: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

WARNING!: OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRakta EJ STRÅLEN.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

AVERTISSEMENT

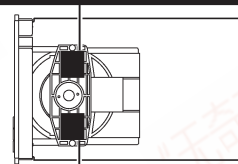
L'utilisation de commandes et l'emploi de réglages ou de méthodes autres que ceux décrits ci-dessous, peuvent entraîner une exposition à un rayonnement dangereux.

CAUTION INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

VORSICHT! UNSICHTBARE LASERSTRAHLUNG TRITTS AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVORRICHTUNG ÜBERBRÜCKT IST. NICHT DEM STRAHL AUSSETZEN!

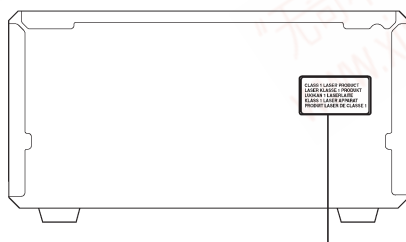
WARNING - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.



ADVARSEL - USYNLIG LASERSTRÅLNING VED ÅBNING, NÄR SIKKERHEDSÅFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

VAROITUS! - SUOJAKOTEL OSA EI SAA AVATA. LAITE SISÄLTÄÄ LASERDIODIN, JOKA LÄHETTÄÄ (NÄKYMÄTÖNTÄ) SILMILLE VAARALLISTA LASERSÄTEILYÄ.

ADVARSEL - USYNLIG LASERBESTRÅLING NÄR DENNE DELEN ER ÅPEN OG SIKKERHETSÅBRYDNEREN ER UTKOBLET. UNNGÅ UTSETTELSE FOR STRÅLING.



**CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
PRODUIT LASER DE CLASSE 1**

■ PREVENTION OF ELECTROSTATIC DISCHARGE

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

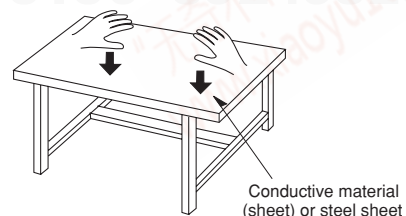
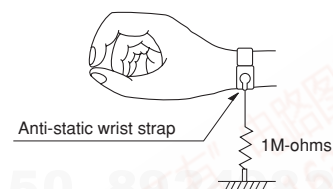
1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

Grounding for electrostatic breakdown prevention

1. Human body grounding.
Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding.
Put a conductive material (sheet) or steel sheet on the area where the optical pick-up is placed and ground the sheet.



Caution:

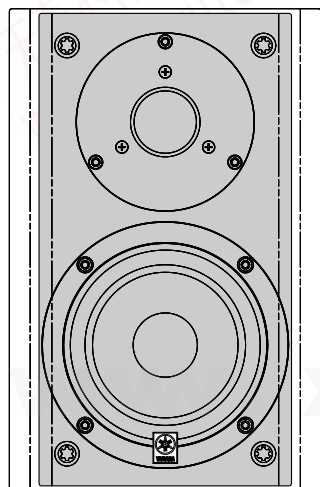
The static electricity of your clothes will not be grounded through the wrist strap. So take care not to let your clothes touch the optical pick-up.

■ SYSTEM COMPOSITION / システム構成

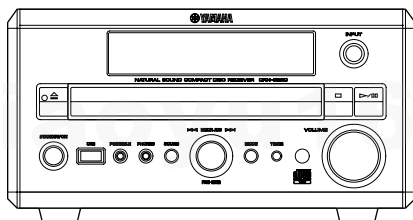
The MCR-E320 consists of the CRX-E320 and the NX-E700.

MCR-E320 は CRX-E320 および NX-E700 で構成されています。

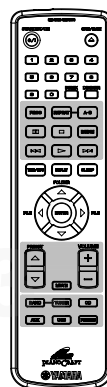
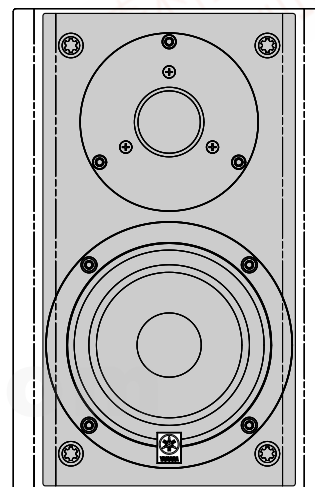
NX-E700



CRX-E320

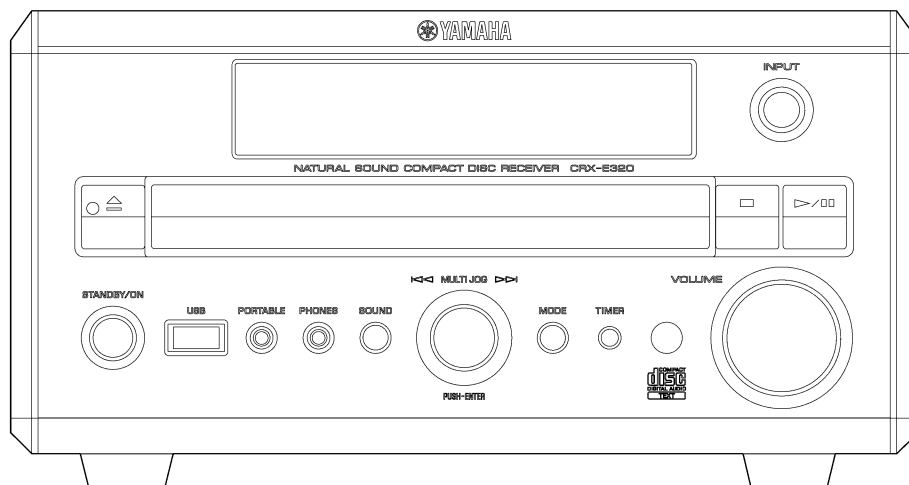


NX-E700



FRONT PANEL

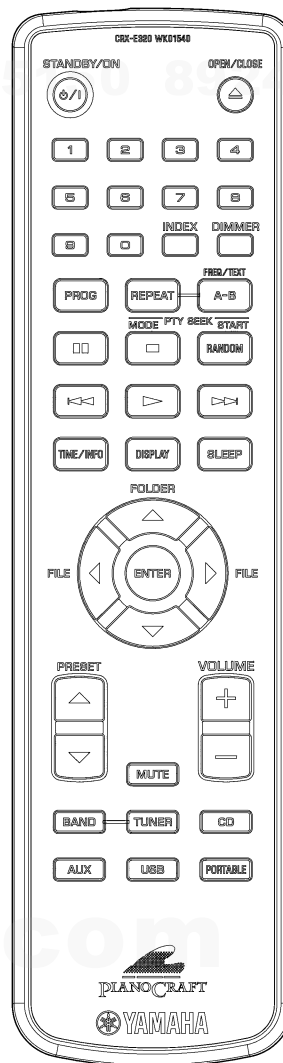
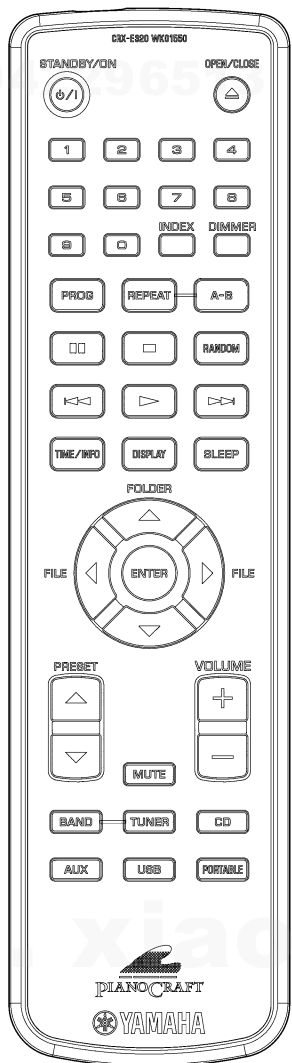
CRX-E320



REMOTE CONTROL PANELS

- U, T, K, A, L, J models

- G model

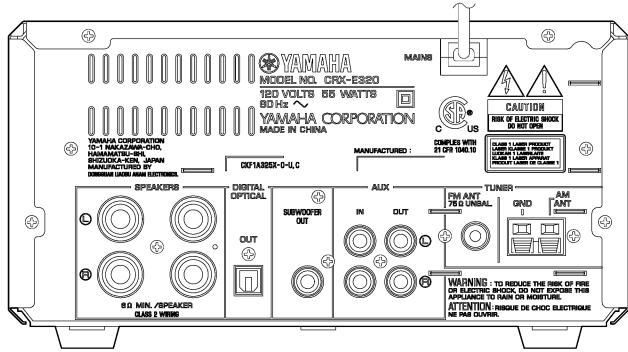


CRX-E320/
NX-E700

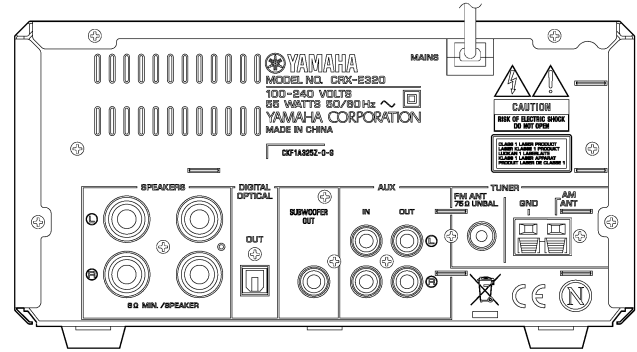
REAR PANELS

CRX-E320

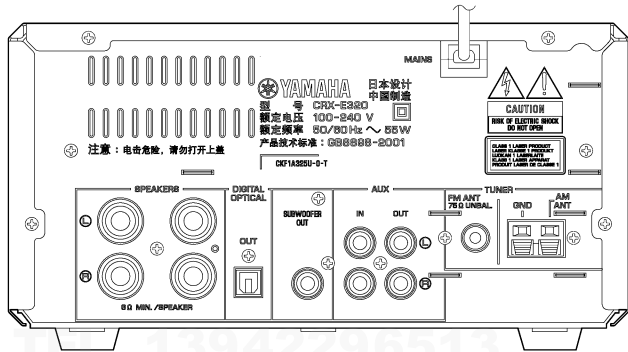
U model



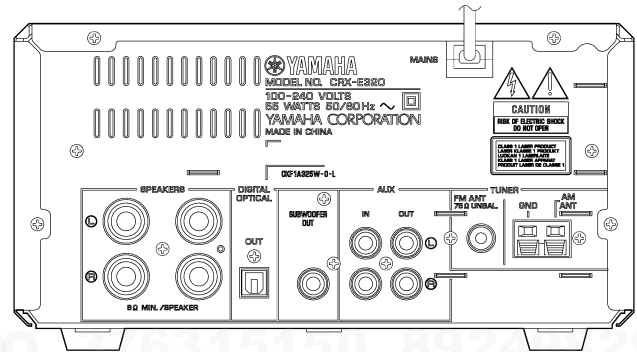
G model



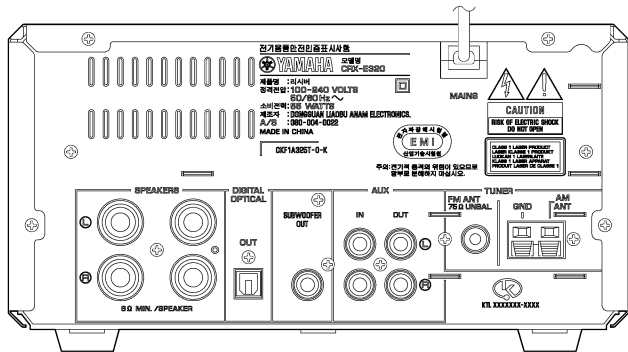
T model



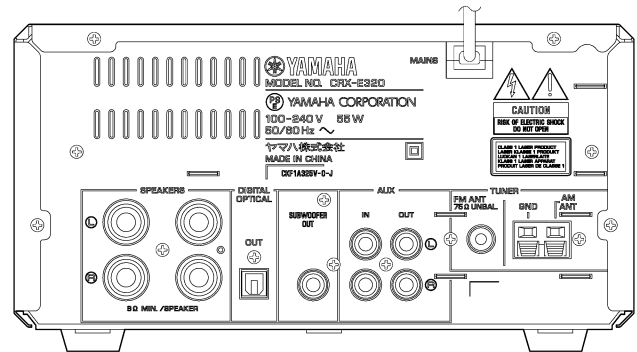
L model



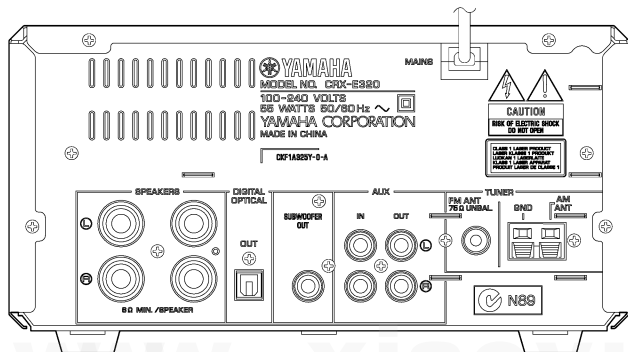
K model



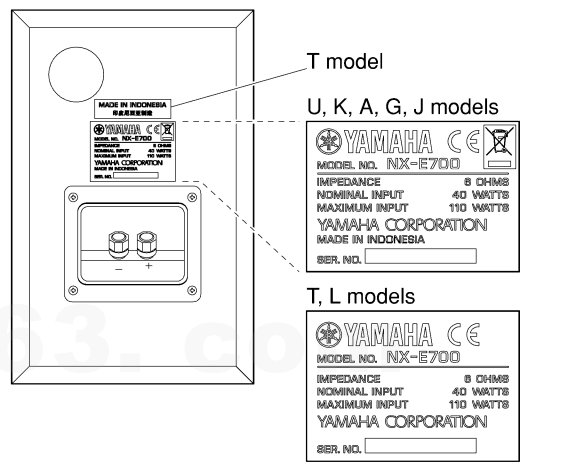
J model



A model



NX-E700



CRX-E320/
NX-E700

■ SPECIFICATIONS / 参考仕様

CRX-E320

■ **Player Section / プレーヤー部**
Playback System / 再生システム CD, CD-R/RW

Audio Performance / オーディオ部性能 (1 kHz)
 Signal-Noise 100 dB or more
 Dynamic range 100 dB or more
 Distortion and Noise 0.005 % or less
 DAC 192 kHz/24-bit

■ Amplifier Section / アンプ部

Minimum RMS Output Power Per Channel / 定格出力
 (6-ohm, 1 kHz, 0.5 % THD) 25 W + 25 W

Maximum RMS Output Power Per Channel / 実用最大出力
 (6-ohm, 1 kHz, 10 % THD) 30 W + 30 W

Input Sensitivity/Impedance / 入力感度/インピーダンス
 AUX etc. 300 mV/47 k-ohms

Frequency Response / 周波数特性 (1 W, 6-ohm)
 CD etc. 20 Hz to 20 kHz ± 0.5 dB

Total Harmonic Distortion / 全高調波歪率 (6-ohm, 1 kHz, 1 W)
 CD etc. 0.08 % or less

Signal to Noise Ratio / S/N比 (IHF-A network)
 CD etc. 95 dB or more

Output level/Impedance / 出力レベル/インピーダンス
 PHONES (Volume max.) 1 V/32 ohms

■ Tuner Section / チューナー部

FM Section / FMチューナー部

Tuning Range / 受信周波数範囲
 U, T, K, A, G, L models 87.50 to 108.00 MHz
 J model 76.0 to 108.0 MHz
Sensitivity / 感度
 S/N 30 dB 7 dBµV/m (EMF)

AM Section / AMチューナー部

Tuning Range / 受信周波数範囲
 U model 530 to 1700 kHz
 T, K, A, G, L, J models 522 to 1629 kHz
Sensitivity / 感度
 S/N 20 dB 60 dB (EMF)

■ General / 総合

Power Supply / 電源電圧
 U model AC 120 V, 60 Hz
 T, K, A, G, L, J models AC 100 to 240 V, 50/60 Hz

Power Consumption / 消費電力 55 W

Standby Power Consumption / 待機時消費電力 1.0 W or less

Dimensions (W x H x D) / 寸法 (幅×高さ×奥行き)
 215 x 113 x 308.4 mm (8-7/16" x 4-7/16" x 12-1/8")

Weight / 質量 3.1 kg (6 lbs. 13 oz)

Finish / 仕上げ
 Gold color T, A models
 Black color G, L, J models
 Silver color U, K, G, L models

Accessories / 付属品
 Remote control x 1, Indoor FM antenna x 1, AM loop antenna x 1

* Specifications are subject to change without notice due to product improvements.

※ 参考仕様および外観は予告なく変更されることがあります。

NX-E700

Type / 型式 2-way bass reflex speaker system/
 Magnetic shielding type
 2ウェイ・バスレス式/防磁型

Driver / スピーカーユニット
 Woofer 11 cm (4-1/2") cone type
 Tweeter 2.5 cm (1") dome type

Frequency Response / 再生周波数帯域
 U, T, K, A, G and L models 60 Hz to 28 kHz (-10dB)
 J model 60 Hz to 80 kHz (-30dB)

Impedance / インピーダンス 6 ohms

Nominal Input / 許容入力 40 W

Maximum Input / 最大入力 110 W

Sensitivity / 出力音圧レベル 85 dB/2.83 V/m

Crossover Frequency / クロスオーバー周波数 3 kHz

Input Terminal / 入力端子 Screw/Banana type

Dimensions (W x H x D) / 寸法 (幅×高さ×奥行き)
 165 mm x 255 mm x 183 mm
 (6-1/2" x 10-1/16" x 7-3/16")

Weight / 質量 3.4 kg (7 lbs 8 oz)

Finish / 仕上げ Black color

Accessories / 付属品 Speaker cable (4 m) x 2

* Specifications are subject to change without notice due to product improvements.

※ 参考仕様および外観は予告なく変更されることがあります。

U U.S.A. and Canadian models

T Chinese model

K Korean model

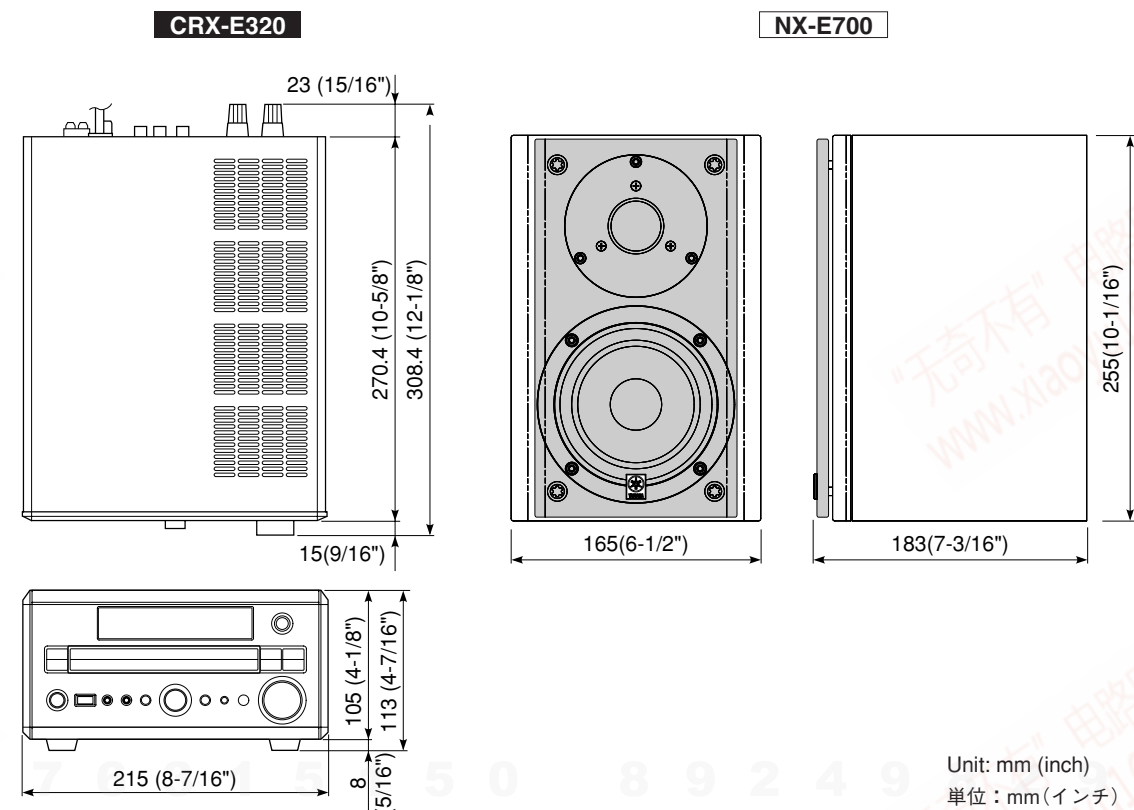
A Australian model

G European model

L Singapore model

J Japanese model

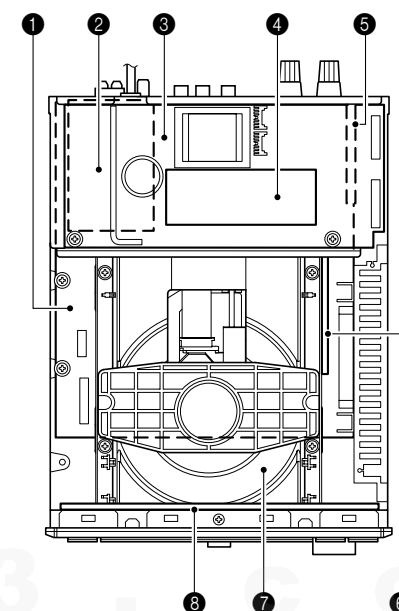
• DIMENSIONS / 寸法図



Unit: mm (inch)
 単位: mm (インチ)

■ INTERNAL VIEW

CRX-E320



- ① MAIN (1) P.C.B.
- ② TUNER MODULE
- ③ FRONT / SMPS (3) P.C.B.
- ④ CONNECTOR P.C.B.
- ⑤ MAIN (2) P.C.B.
- ⑥ FRONT / SMPS (2) P.C.B.
- ⑦ CD MECHANISM UNIT
- ⑧ FRONT / SMPS (1) P.C.B.

■ DISASSEMBLY PROCEDURES / 分解手順

CRX-E320

- Remove parts in disassembly order as numbered.
- Disconnect the power cable from the AC outlet.

1. Removal of Top Cover

- Remove 2 screws (①) and 4 screws (②). (Fig. 1)
- Slide the top cover rearward to remove it. (Fig. 1)

2. Removal of Front Panel Unit

- Eject the tray. (See "How to manually eject the tray".)
- Remove the tray lid and close the tray. (Fig. 1)
- Remove 2 screws (③) and 2 screws (④). (Fig. 1)
- Remove CN81. (Fig. 1)
- Remove 2 hooks and then slide the front panel unit forward. (Fig. 1)
- Remove CN82. (Fig. 1)

- 番号順に部品を取り外してください。
- AC電源コンセントから、電源コードを抜いてください。

1. トップカバーの外し方

- ①のネジ2本、②のネジ4本を外します。(Fig. 1)
- トップカバーを後方へスライドさせ取り外します。(Fig. 1)

2. フロントパネルユニットの外し方

- トレイを開きます。("手動でトレイを開く方法"を参照)
- トレイリッドを外し、トレイを閉じます。(Fig. 1)
- ③のネジ2本、④のネジ2本を外します。(Fig. 1)
- CN81を外します。(Fig. 1)
- フック2箇所を外し、フロントパネルユニットを前方へ引き出します。(Fig. 1)
- CN82を外します。(Fig. 1)

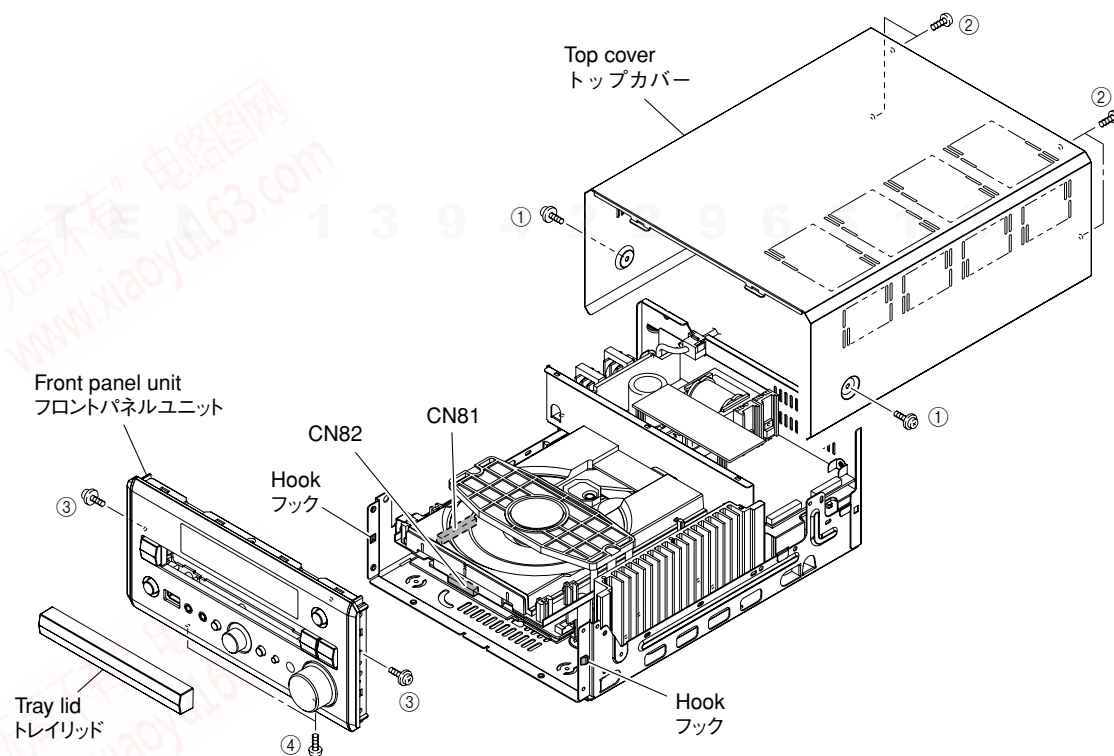


Fig. 1

• How to manually eject the tray / 手動でトレイを開く方法

- Turn the unit bottom up.
- Using a flatblade screwdriver, turn the loading cam 90 degrees in the direction indicated by an arrow in the figure. (Fig. 2)
- Gently pull the tray out.

- 本機を上下反転します。
- マイナスドライバーでローディングカムを図に示す矢印の方向に90度回転します。(Fig. 2)
- トレイをそっと引き出します。

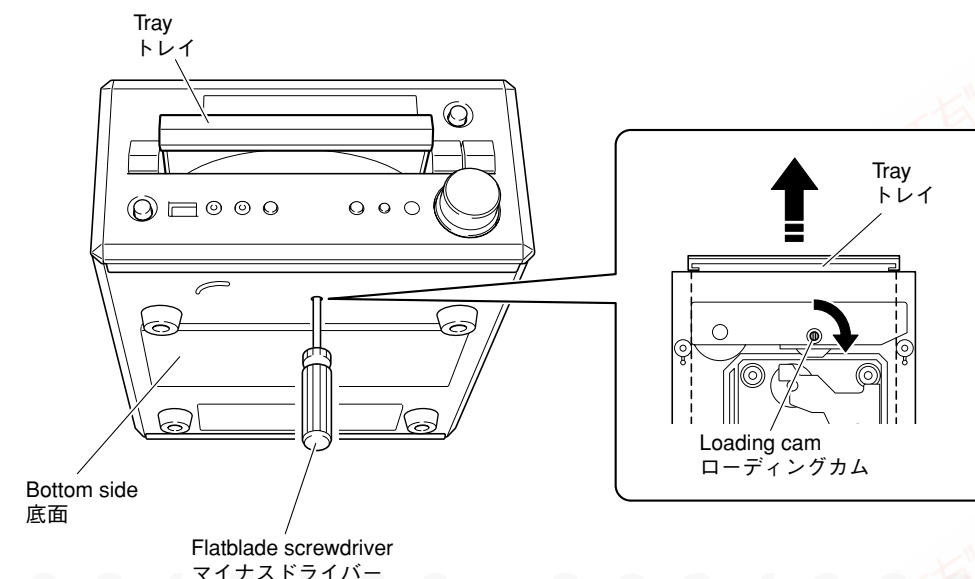


Fig. 2

3. Removal of FRONT/SMPS (3) P.C.B.

- Remove 2 screws (⑤). (Fig. 3)
- Remove 2 screws (⑥). (Fig. 4)
- Remove CN91, CN92 and CN93. (Fig. 3)
- Remove power cable. (Fig. 3)
- Remove 2 screws (⑦). (Fig. 3)
- Remove screw (⑧). (Fig. 4)
- Remove FRONT/SMPS (3) P.C.B. together with the shield case. (Fig. 3)

3. FRONT/SMPS (3) P.C.B.の外し方

- ⑤のネジ2本を外します。(Fig. 3)
- ⑥のネジ2本を外します。(Fig. 4)
- CN91、CN92、CN93を外します。(Fig. 3)
- 電源コードを取り外します。(Fig. 3)
- ⑦のネジ2本を外します。(Fig. 3)
- ⑧のネジ1本を外します。(Fig. 4)
- FRONT/SMPS (3) P.C.B.をシールドケースと一緒に取り外します。(Fig. 3)

4. Removal of CD Mechanism Unit

- Remove 4 screws (⑨). (Fig. 3)
- Remove CN31 and CN32. (Fig. 3)
- Remove CD mechanism unit. (Fig. 3)

4. CDメカユニットの外し方

- ⑨のネジ4本を外します。(Fig. 3)
- CN31、CN32を外します。(Fig. 3)
- CDメカユニットを取り外します。(Fig. 3)

5. Removal of Tuner Module

- Remove 2 screws (⑩). (Fig. 4)
- Remove CN45. (Fig. 3)
- Remove tuner module. (Fig. 3)

5. チューナーモジュールの外し方

- ⑩のネジ2本を外します。(Fig. 4)
- CN45を外します。(Fig. 3)
- チューナーモジュールを取り外します。(Fig. 3)

6. Removal of MAIN (1) P.C.B.

- Remove 2 screws (⑪), screw (⑫) and 5 screws (⑬). (Fig. 3)
- Remove 4 screws (⑭). (Fig. 4)
- Remove MAIN (1) P.C.B. together with the heat sink. (Fig. 3)

6. MAIN (1) P.C.B.の外し方

- ⑪のネジ2本、⑫のネジ1本、⑬のネジ5本を外します。(Fig. 3)
- ⑭のネジ4本を外します。(Fig. 4)
- MAIN (1) P.C.B.をヒートシンクと一緒に取り外します。(Fig. 3)

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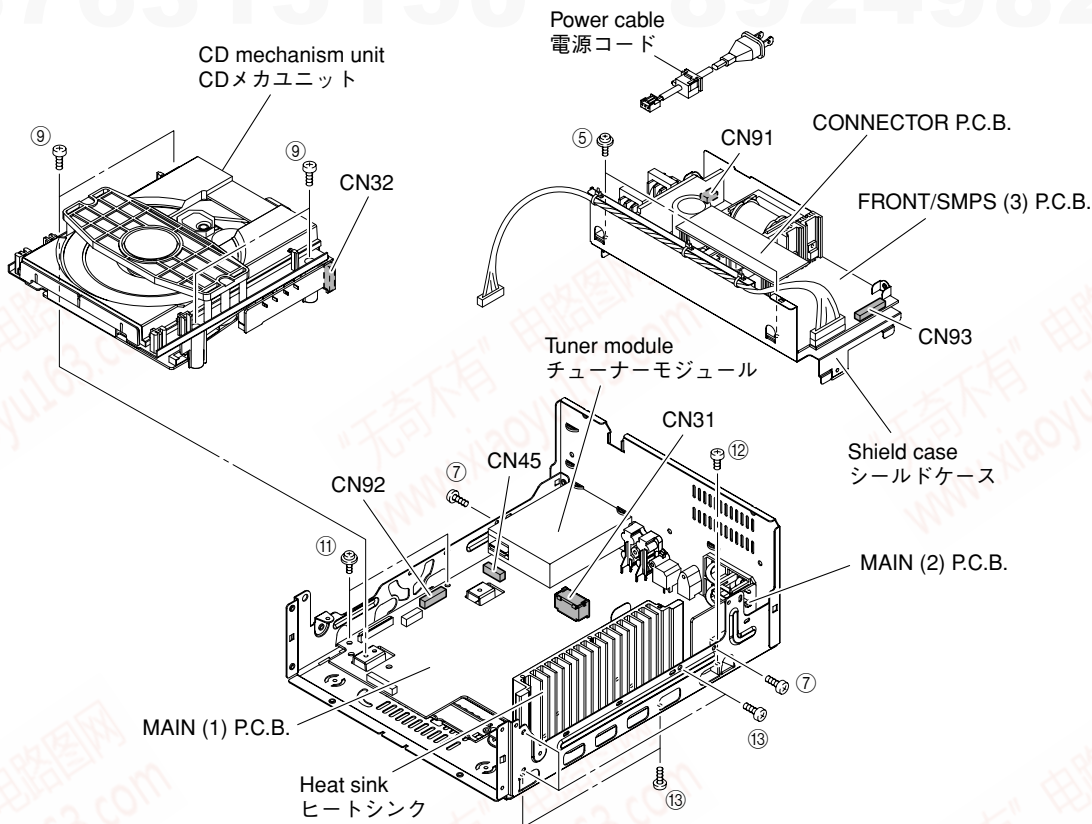


Fig. 3

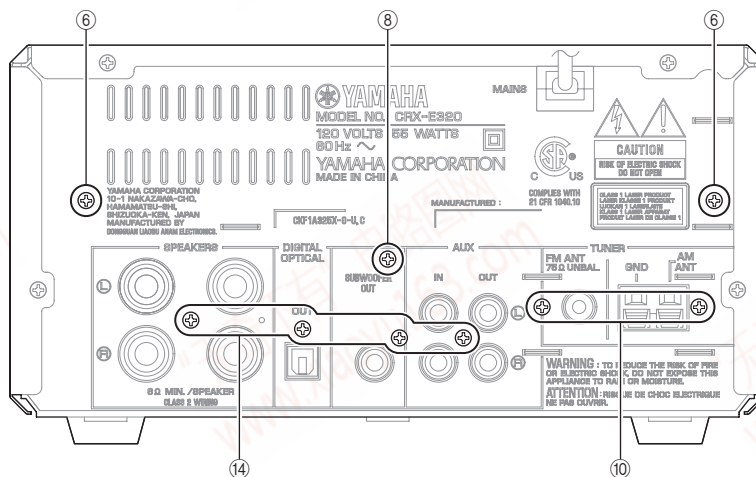


Fig. 4

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7. Removal of Optical Pick-up Unit

- Remove 4 screws (15) and then remove the drive unit. (Fig. 5)
- Remove flexible flat cable and connector ass'y. (Fig. 5)
- Remove stopper gear A and then remove the gear A. (Fig. 6)
- Remove stopper sled shaft and then remove the sled shaft. (Fig. 6)
- Remove the optical pick-up unit. (Fig. 6)
 - * Never touch the potentiometer (VR301) installed to the optical pick-up unit. (Fig. 7)

7. オプティカルピックアップユニットの外し方

- ⑮のネジ4本を外し、ドライブユニットを取り外します。(Fig. 5)
- カード電線、コネクタ-ASSYを外します。(Fig. 5)
- ギアAストッパーを外し、ギアAを取り外します。(Fig. 6)
- スレッドシャフトストッパーを外し、スレッドシャフトを取り外します。(Fig. 6)
- オプティカルピックアップユニットを取り外します。(Fig. 6)
 - * オプティカルピックアップユニットに搭載されている可変抵抗 (VR301) は、絶対に触らないでください。(Fig. 7)

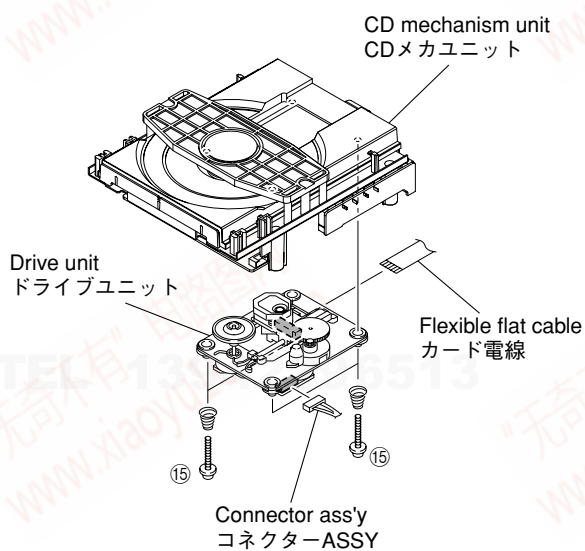


Fig. 5

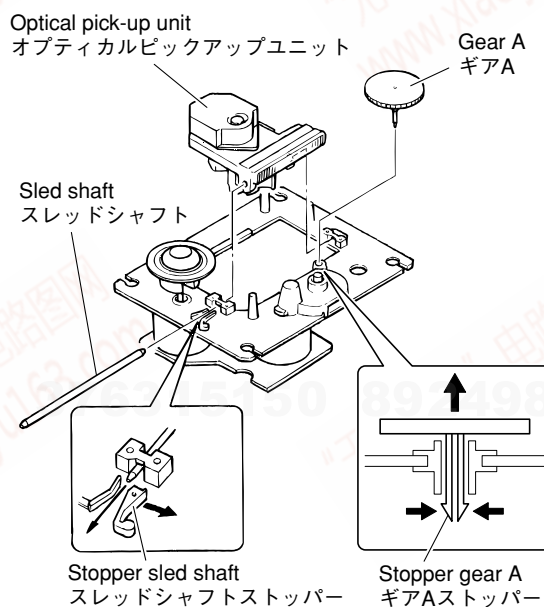


Fig. 6

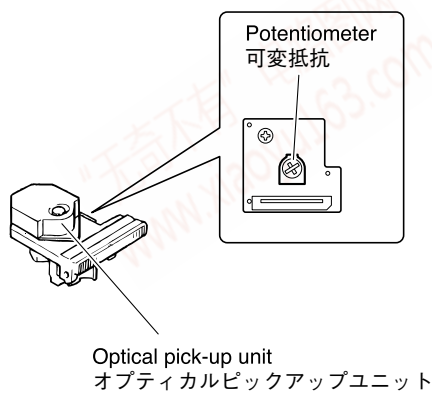


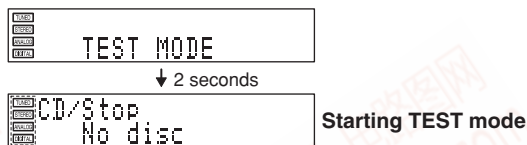
Fig. 7

TEST MODE

Operation and FIP display of the CD mechanism unit are checked.

Starting Test Mode

- Connect the power cable to the AC power outlet.
- Press the "STANDBY/ON" key while simultaneously pressing "▶ / ■■" (PLAY/PAUSE) and "■" (STOP) keys of the main unit.
- TEST mode is activated and "TEST MODE" flashes for about 2 seconds.



While the TEST mode is activated, the indicator remains ON constantly.

- When using the input source other than [CD] for the main unit, press the "CD" key of the remote control to set the input source as [CD].

* While the TEST mode is at work, it is not possible to change the input source even by pressing the "INPUT" key of the main unit.

Function list of panel keys.

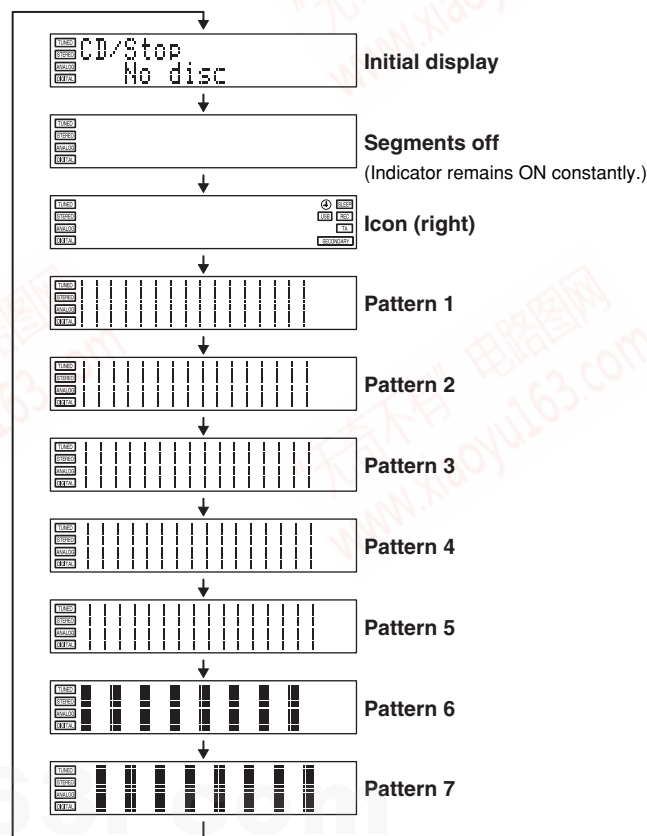
Panel key	Function
▲ (OPEN/CLOSE)	Tray open/close.
▶ / ■■ (PLAY/PAUSE)	Playback/Pause.
■ (STOP)	Stop.
◀◀ / ◀ (SKIP-/SEARCH-)	Move traverse reverse.
▶▶ / ▶ (SKIP+/SEARCH+)	Move traverse forward.

Function list of remote control keys.

Panel key	Function
▲ (OPEN/CLOSE)	Tray open/close.
▶ (PLAY)	Playback.
■■ (PAUSE)	Pause.
■ (STOP)	Stop.
◀◀ (SKIP-)	Move traverse reverse.
▶▶ (SKIP+)	Move traverse forward.
TIME/INFO	Check FIP display. (*1)
RANDOM	Spindle servo on/off.

*1 Check FIP display

The display condition varies as shown below according to the "TIME/INFO" key of the remote control.



Canceling Test Mode

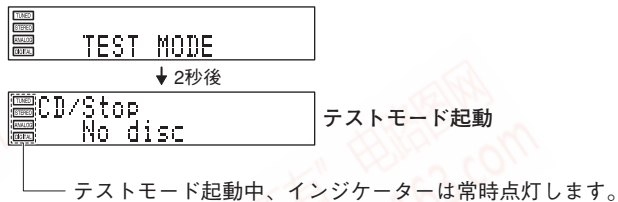
Press the "STANDBY/ON" key of the main unit and disconnect the power cable from the AC power outlet.

■ テストモード

CDメカユニットの動作チェックおよび表示器のチェックを行います。

・ テストモードの起動

- 電源コードをACコンセントに接続します。
- 同時に本機の“▶/■”(PLAY/PAUSE)キーと“■”(STOP)キーを押しながら、“STANDBY/ON”キーを押します。
- テストモードが起動し、約2秒間“TEST MODE”が点滅表示されます。



- 本機の入力ソースが「CD」以外の場合、リモコンの“CD”キーを押して本機の入力ソースを「CD」に設定します。
* テストモード起動中、本機の“INPUT”キーを押しても入力ソースは変更できません。

・ パネルキー操作リスト

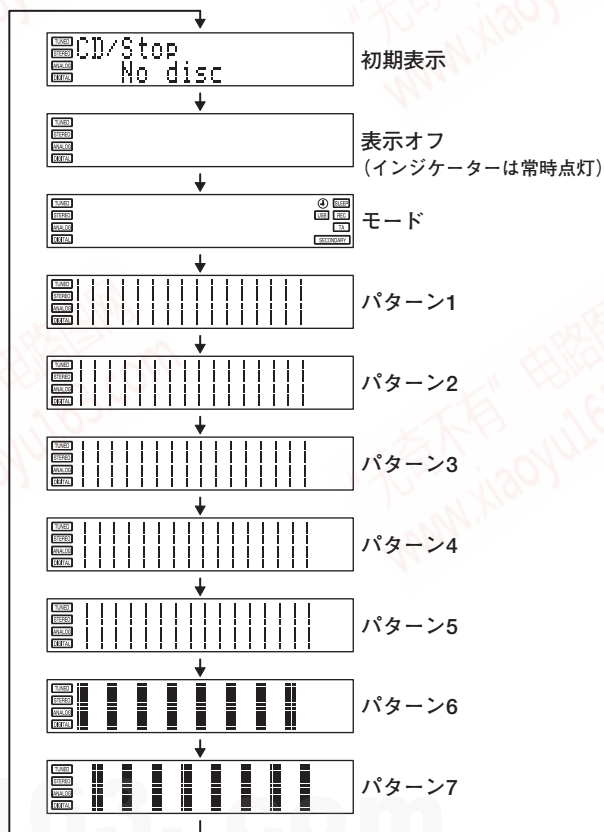
パネルキー	機能
▲ (OPEN/CLOSE)	トレイ オープン/クローズ
▶ / ■ (PLAY/PAUSE)	再生/一時停止
■ (STOP)	停止
◀◀ / ◀ (SKIP-/SEARCH-)	トラバース内周移動
▶▶ / ▶ (SKIP+/SEARCH+)	トラバース外周移動

・ リモコンキー操作リスト

パネルキー	機能
▲ (OPEN/CLOSE)	トレイ オープン・クローズ
▶ (PLAY)	再生
■ (PAUSE)	一時停止
■ (STOP)	停止
◀◀ (SKIP-)	トラバース内周移動
▶▶ (SKIP+)	トラバース外周移動
TIME/INFO	表示器チェック(*1)
RANDOM	スピンドルサーボオン/オフ

*1 表示器のチェック

リモコンの“TIME/INFO”キーを押すことにより、表示状態が下記のように変わります。



・ テストモードの解除

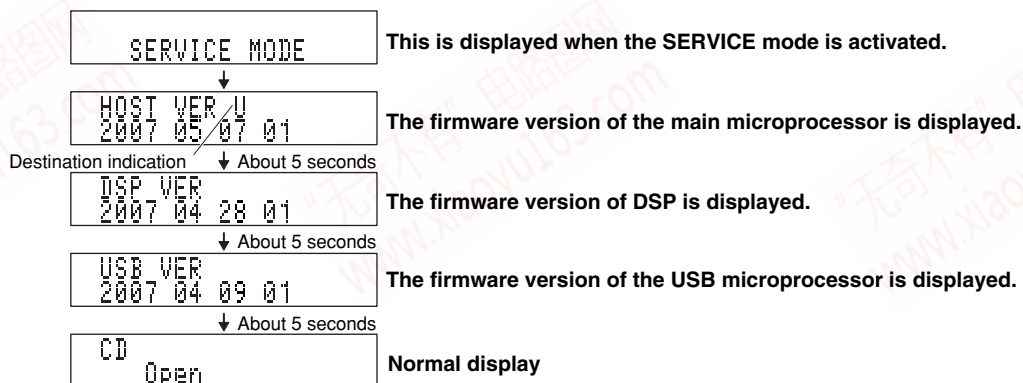
本機の“STANDBY/ON”キーを押し、ACコンセントから電源コードを抜きます。

■ SERVICE MODE

The firmware versions of the main microprocessor, DSP and USB microprocessors are displayed.

• Starting Service Mode

- Connect the power cable to the AC power outlet.
- To open the tray, press the “▲”(EJECT) key of the main unit or “OPEN/CLOSE” key of the remote control.
- With the tray drawn out, press and hold the “■” (STOP) key of the main unit for about 4 seconds. Then the SERVICE mode is activated. Each firmware version is displayed at about 5 seconds intervals.



- To close the tray, press the “▲”(EJECT) key of the main unit or “OPEN/CLOSE” key of the remote control.
- Press the “STANDBY/ON” key of the main unit or “STANDBY/ON” key of the remote control and disconnect the power cable from the AC power outlet.

■ FACTORY MODE

Factory settings are restored and the tuner step is changed (L model).

• Starting Factory Reset

All settings are returned to initial settings.

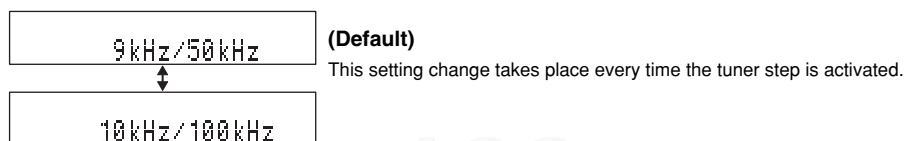
- Connect the power cable to the AC power outlet.
- Press the “STANDBY/ON” key for about 4 seconds continuously while pressing “SOUND” and “MODE” keys of the main unit simultaneously. [FACTORY RESET] is displayed and after about 4 seconds, the power is turned off automatically.
- Disconnect the power cable from the AC power outlet.

• Starting Tuner Step (L model)

Select the tuner step AM9kHz/FM50kHz or AM10kHz/FM100kHz.

The initial setting becomes AM9kHz/FM50kHz.

- Connect the power cable to the AC power outlet.
- Press the “STANDBY/ON” key for about 4 seconds continuously while pressing “SOUND” and “INPUT” keys of the main unit simultaneously, [10kHz/100kHz] flashes and after about 4 seconds, the power is turned off automatically.
 - * The setting is changed to [9kHz/50kHz] when the tuner step is activated again.

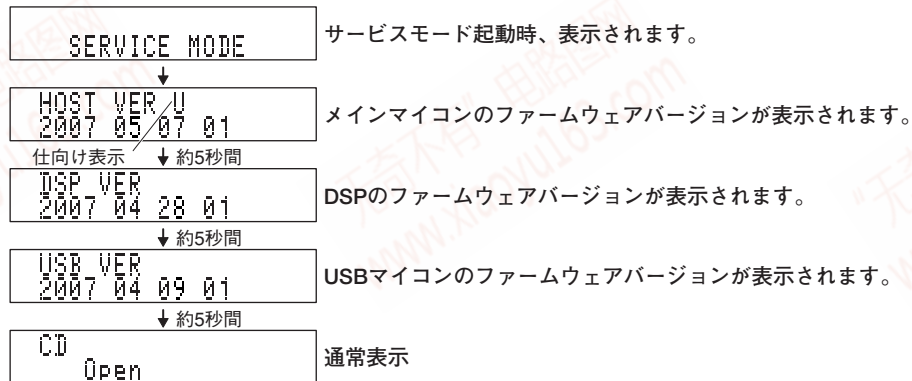


■ サービスモード

メインマイコン、DSP、USBマイコンのファームウェアバージョンを表示します。

・ サービスモードの起動

- a. 電源コードをACコンセントに接続します。
- b. 本機の“▲”(イジェクト)キーまたはリモコンの“OPEN/CLOSE”キーを押し、トレイを引き出します。
- c. トレイを引き出した状態で、本機の“■”(STOP)キーを約4秒間押し続けます。
サービスモードが起動します。
各ファームウェアバージョンは約5秒間隔で表示されます。



- d. 本機の“▲”(イジェクト)キーまたは、リモコンの“OPEN/CLOSE”キーを押し、トレイを閉じます。
- e. 本機の“STANDBY/ON”キーまたはリモコンの“STANDBY/ON”キーを押し、ACコンセントから電源コードを抜きます。

■ ファクトリーモード

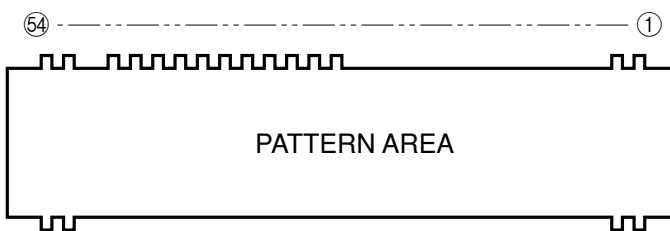
・ ファクトリーリセットの起動

すべての設定を初期設定に戻します。

- a. 電源コードをACコンセントに接続します。
- b. 同時に本機の“SOUND”キーと“MODE”キーを押しながら、“STANDBY/ON”キーを約4秒間押し続けます。
「FACTORY RESET」が表示され、約4秒後自動で電源オフされます。
- c. ACコンセントから電源コードを抜きます。

■ DISPLAY DATA

● FIP1: HCA-17SM03T (FRONT/SMPS P.C.B.)

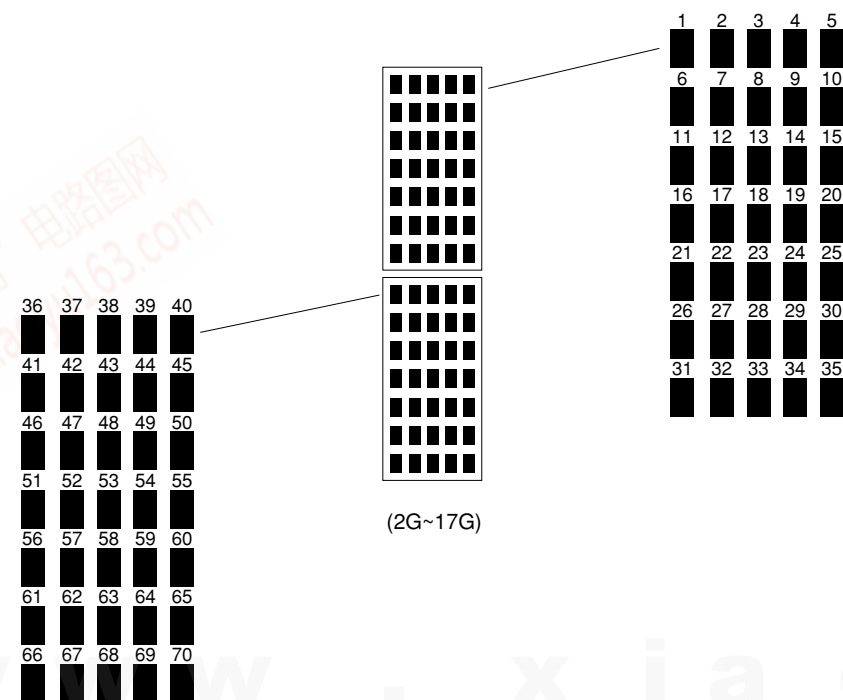
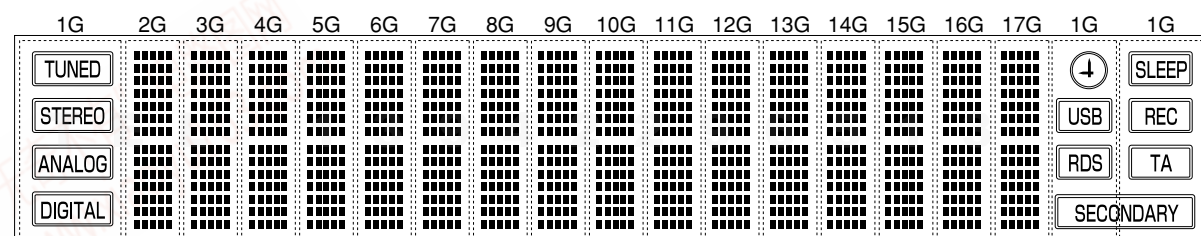


● PIN CONNECTION

Pin No.	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	
Connection	F-	F-	NP	NP	V _{DISP}	L-GND	D-GND	V _{DD}	OSCO	RST	/CS	/CP	DA	DO	Test	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Pin No.	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Connection	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	F+	F+	

Note : 1) F+, F- Filament pin 2) DO Serial data output 3) Test Be left open if not used. 4) NP No pin

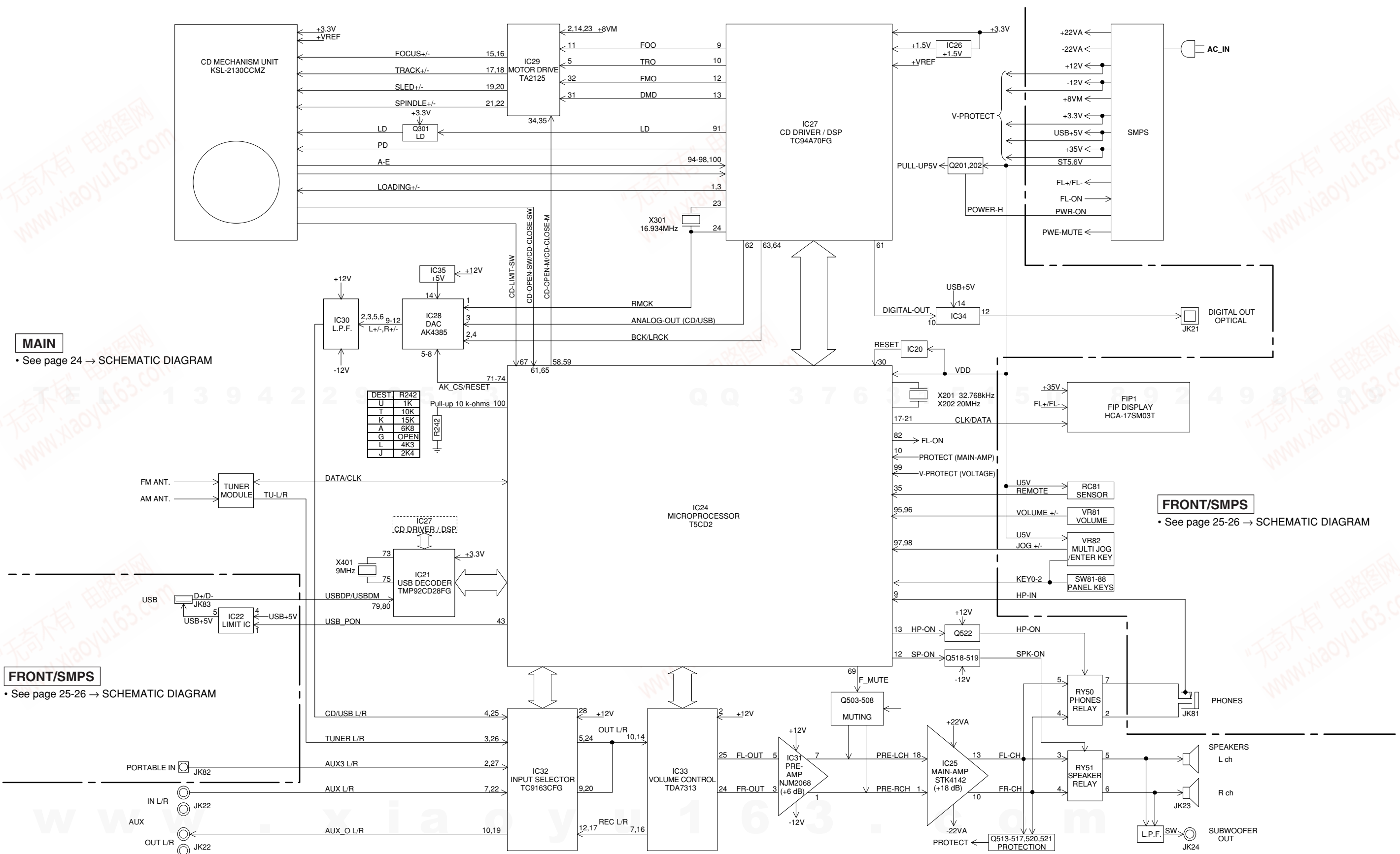
● GRID ASSIGNMENT



● ANODE CONNECTION

	COM1	COM2	COM3	-	COM15	COM16	COM17		COM1	COM2	COM3	-	COM15	COM16	COM17
	1G	2G	3G	-	15G	16G	17G		1G	2G	3G	-	15G	16G	17G
SEGB1	TUNED	1	1	1	1	1	1	SEGA1		36	36	36	36	36	36
SEGB2		2	2	2	2	2	2	SEGA2		37	37	37	37	37	37
SEGB3		3	3	3	3	3	3	SEGA3		38	38	38	38	38	38
SEGB4		4	4	4	4	4	4	SEGA4		39	39	39	39	39	39
SEGB5		5	5	5	5	5	5	SEGA5		40	40	40	40	40	40
SEGB6		6	6	6	6	6	6	SEGA6		41	41	41	41	41	41
SEGB7		7	7	7	7	7	7	SEGA7		42	42	42	42	42	42
SEGB8		8	8	8	8	8	8	SEGA8		43	43	43	43	43	43
SEGB9		9	9	9	9	9	9	SEGA9		44	44	44	44	44	44
SEGB10		10	10	10	10	10	10	SEGA10		45	45	45	45	45	45
SEGB11		11	11	11	11	11	11	SEGA11	ANALOG	46	46	46	46	46	46
SEGB12		12	12	12	12	12	12	SEGA12	RDS	47	47	47	47	47	47
SEGB13		13	13	13	13	13	13	SEGA13	TA	48	48	48	48	48	48
SEGB14		14	14	14	14	14	14	SEGA14		49	49	49	49	49	49
SEGB15		15	15	15	15	15	15	SEGA15		50	50	50	50	50	50
SEGB16		16	16	16	16	16	16	SEGA16		51	51	51	51	51	51
SEGB17		17	17	17	17	17	17	SEGA17		52	52	52	52	52	52
SEGB18		18	18	18	18	18	18	SEGA18		53	53	53	53	53	53
SEGB19		19	19	19	19	19	19	SEGA19		54	54	54	54	54	54
SEGB20	④	20	20	20	20	20	20	SEGA20		55	55	55	55	55	55
SEGB21	STEREO	21	21	21	21	21	21	SEGA21	DIGITAL	56	56	56	56	56	56
SEGB22	SLEEP	22	22	22	22	22	22	SEGA22		57	57	57	57	57	57
SEGB23		23	23	23	23	23	23	SEGA23		58	58	58	58	58	58
SEGB24		24	24	24	24	24	24	SEGA24		59	59	59	59	59	59
SEGB25		25	25	25	25	25	25	SEGA25	SECONDARY	60	60	60	60	60	60
SEGB26		26	26	26	26	26	26	SEGA26		61	61	61	61	61	61
SEGB27		27	27	27	27	27	27	SEGA27		62	62	62	62	62	62
SEGB28		28	28	28	28	28	28	SEGA28		63	63	63	63	63	63
SEGB29		29	29	29	29	29	29	SEGA29		64	64	64	64	64	64
SEGB30		30	30	30	30	30	30	SEGA30		65	65	65	65	65	65
SEGB31		31	31	31	31	31	31	SEGA31		66	66	66	66	66	66
SEGB32	USB	32	32	32	32	32	32	SEGA32		67	67	67	67	67	67
SEGB33	REC	33	33	33	33	33	33	SEGA33		68	68	68	68	68	68
SEGB34		34	34	34	34	34	34	SEGA34		69	69	69	69	69	69
SEGB35		35	35	35	35	35	35	SEGA35		70	70	70	70	70	70

BLOCK DIAGRAM



MAIN
 • See page 24 → SCHEMATIC DIAGRAM

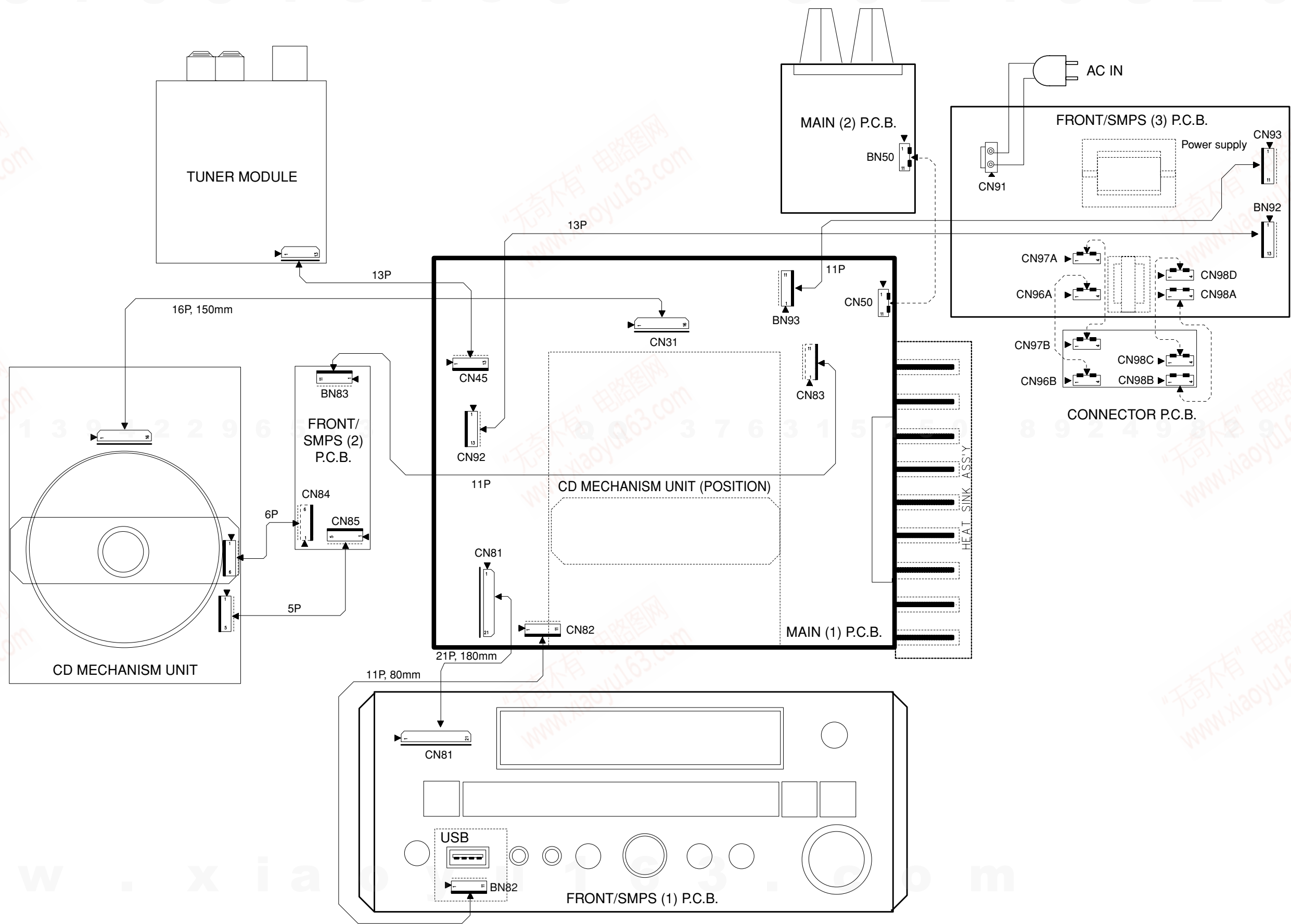
FRONT/SMPS
 • See page 25-26 → SCHEMATIC DIAGRAM

FRONT/SMPS
 • See page 25-26 → SCHEMATIC DIAGRAM

DEST.	R242
U	1K
T	10K
K	15K
A	6K8
G	OPEN
L	4K3
J	2K4

Pull-up 10 k-ohms 100

WIRING DIAGRAM



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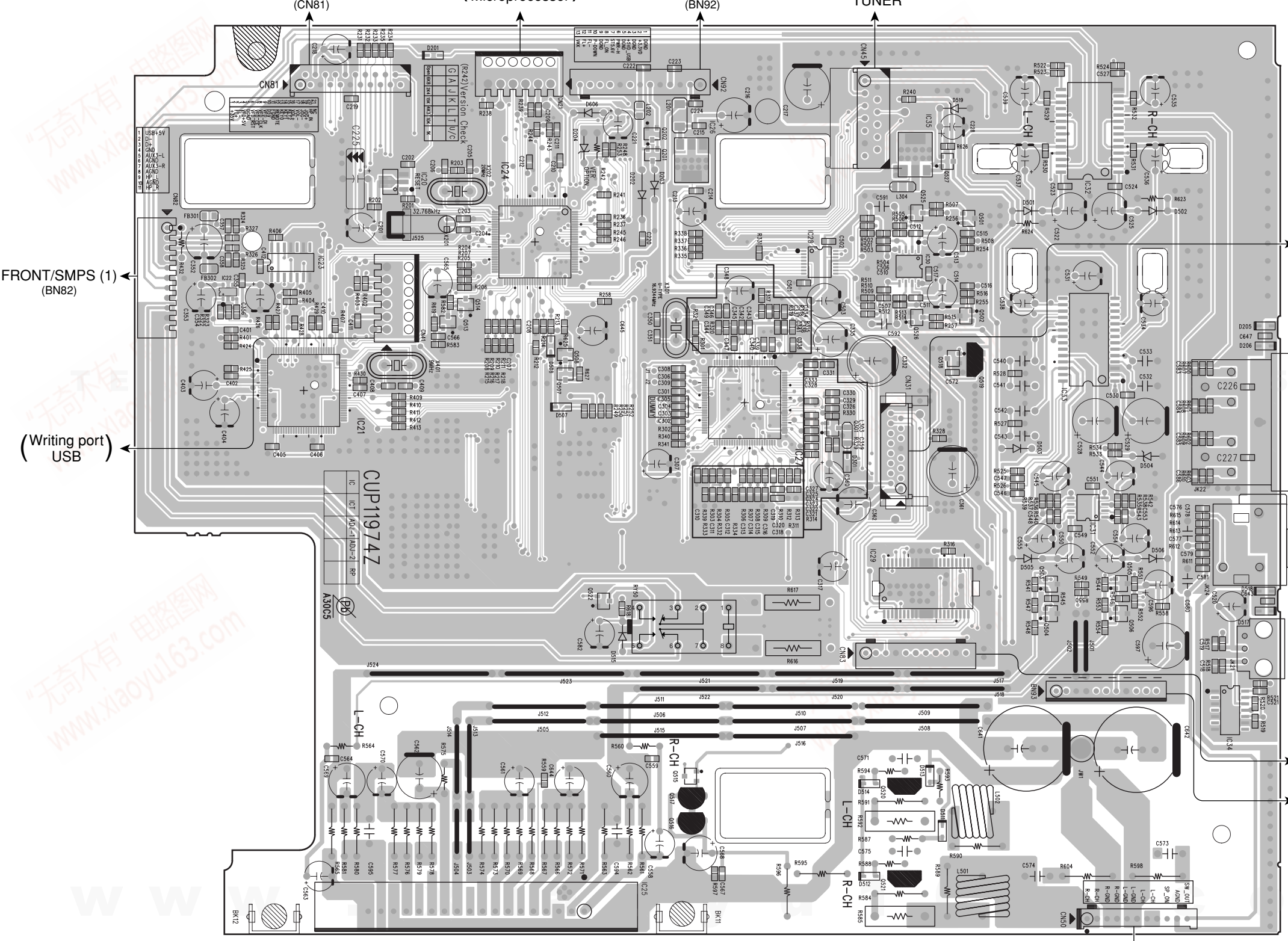
PRINTED CIRCUIT BOARDS

CRX-E320

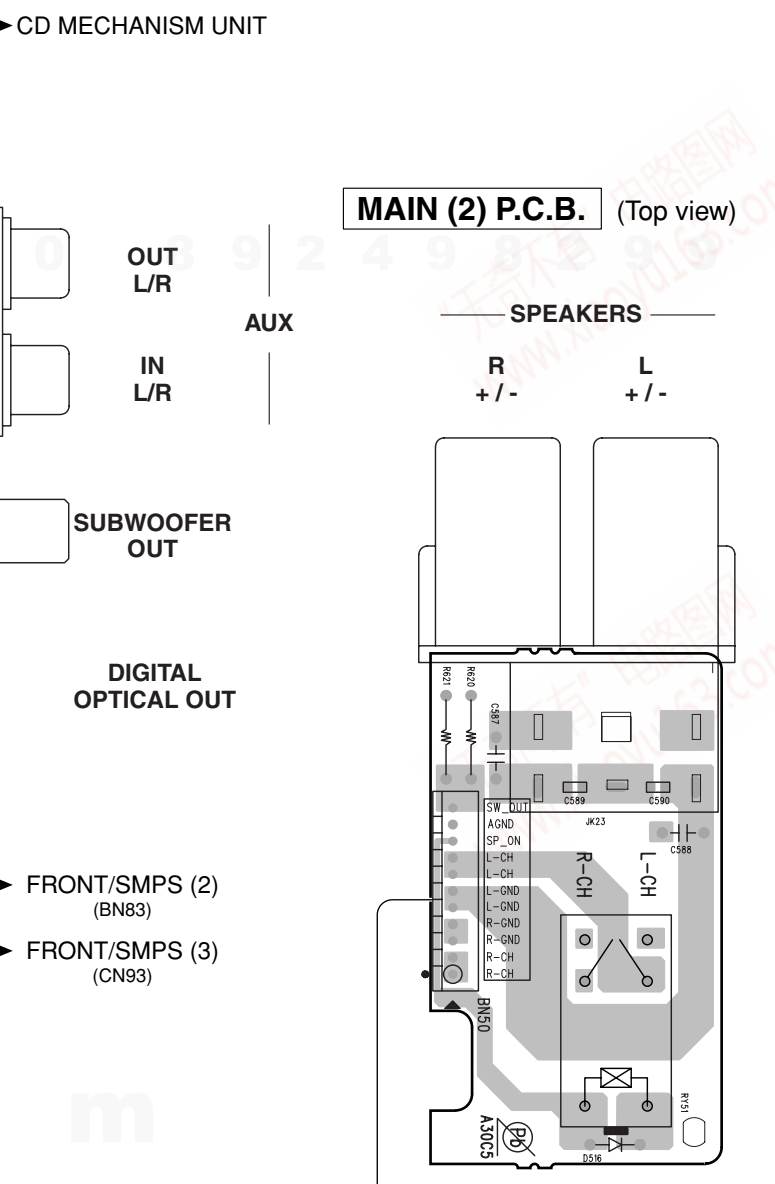
Note) The electrical parts available as servicing parts are those in the replacement parts list only. When replacement of any electrical part other than those in the list is necessary, replace the P.C.B. assembly which includes that part.

注) 電気部品リストに記載されている電気部品のみ、サービス部品として供給できます。電気部品リストに記載されていない電気部品の交換が必要な場合は、その電気部品を搭載している「P.C.B. ASSY」を交換してください。

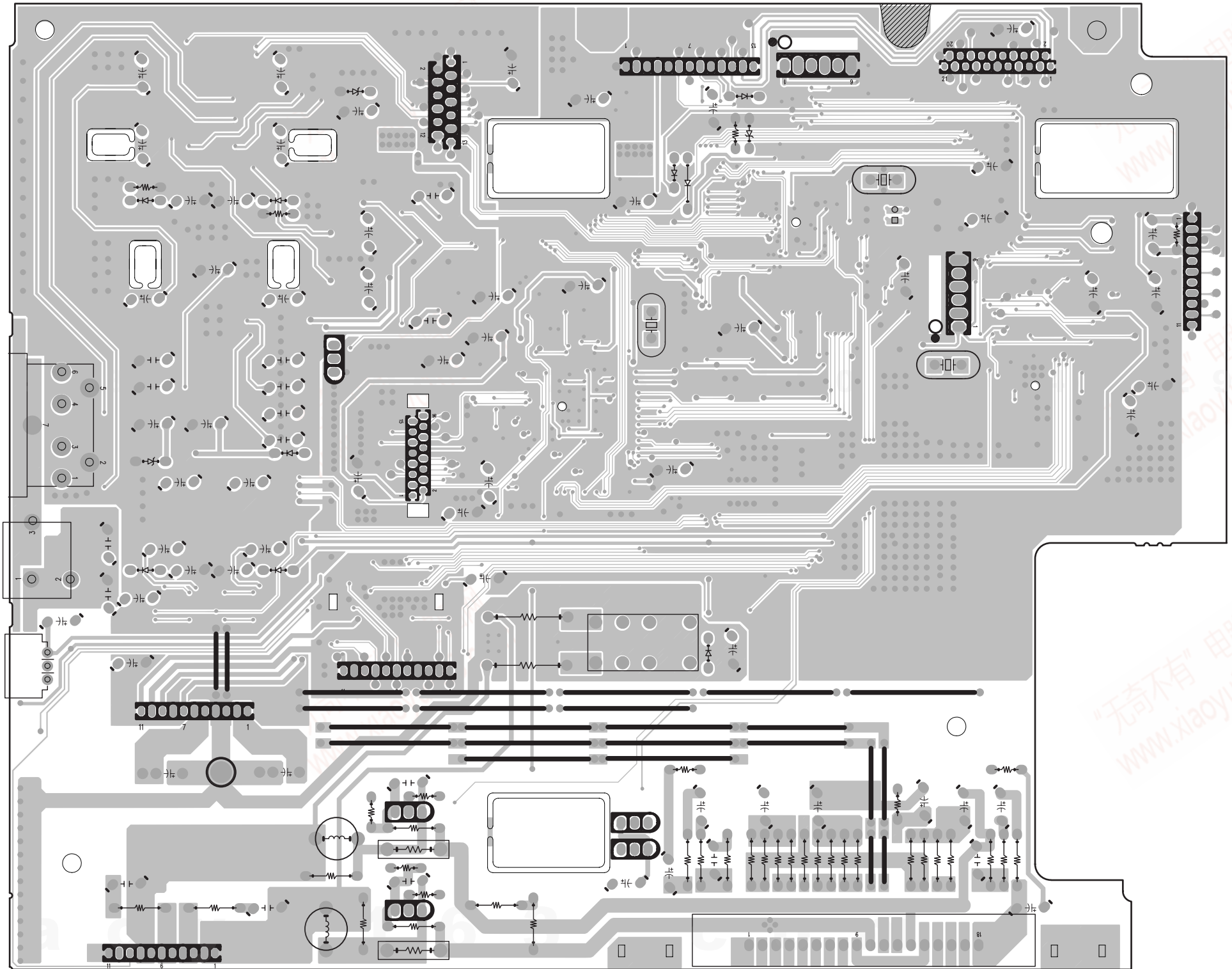
MAIN (1) P.C.B. (Top view)



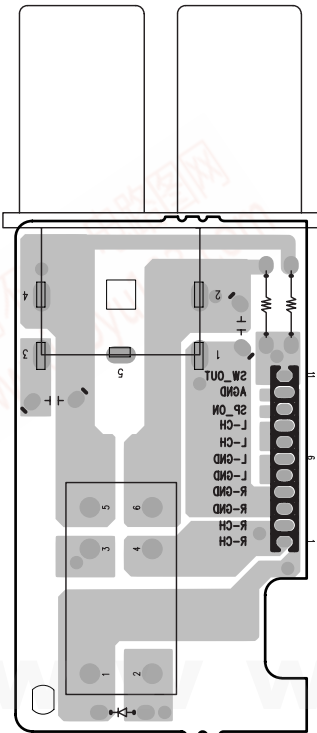
MAIN (2) P.C.B. (Top view)



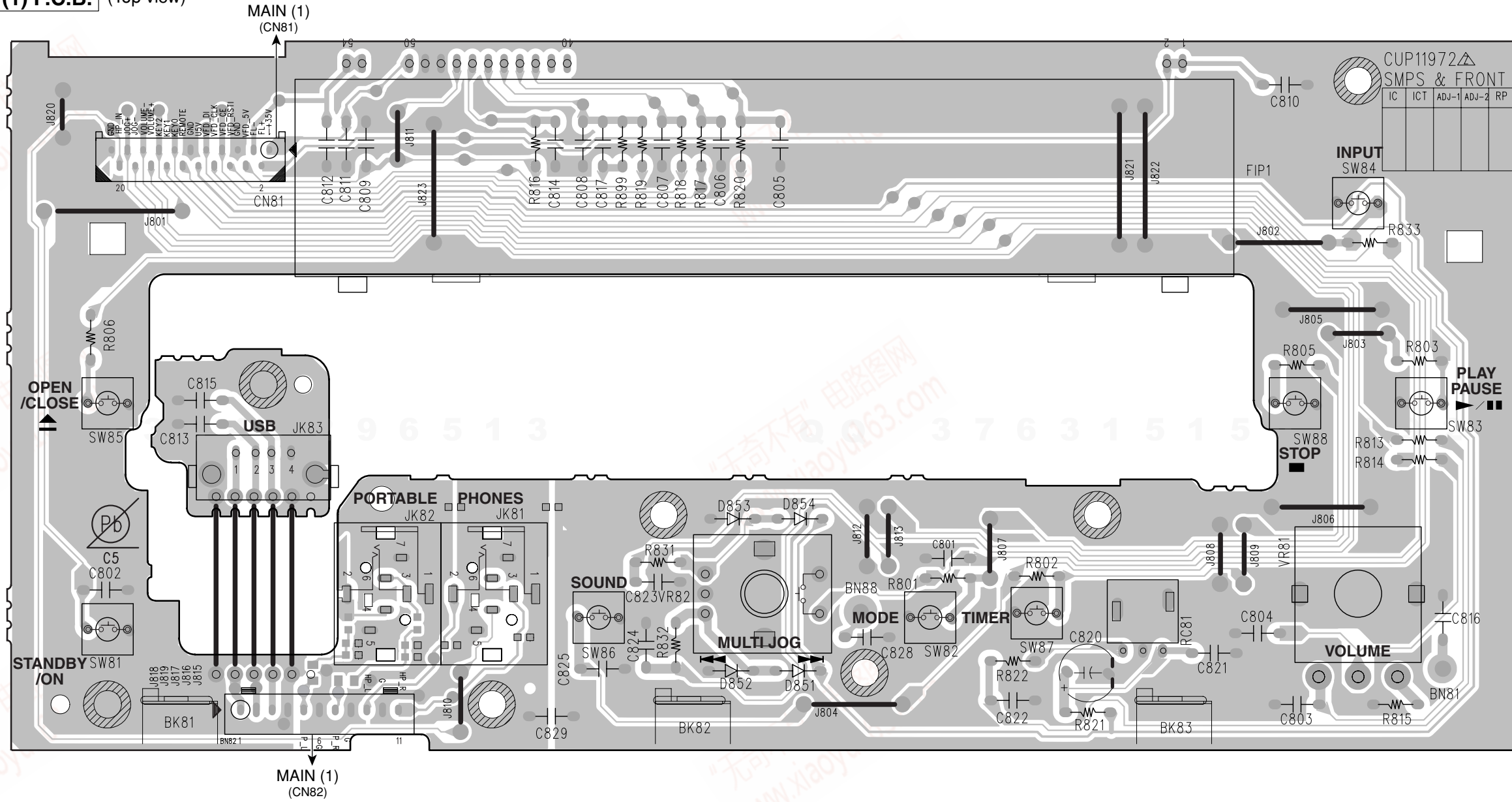
MAIN (1) P.C.B. (Bottom view)



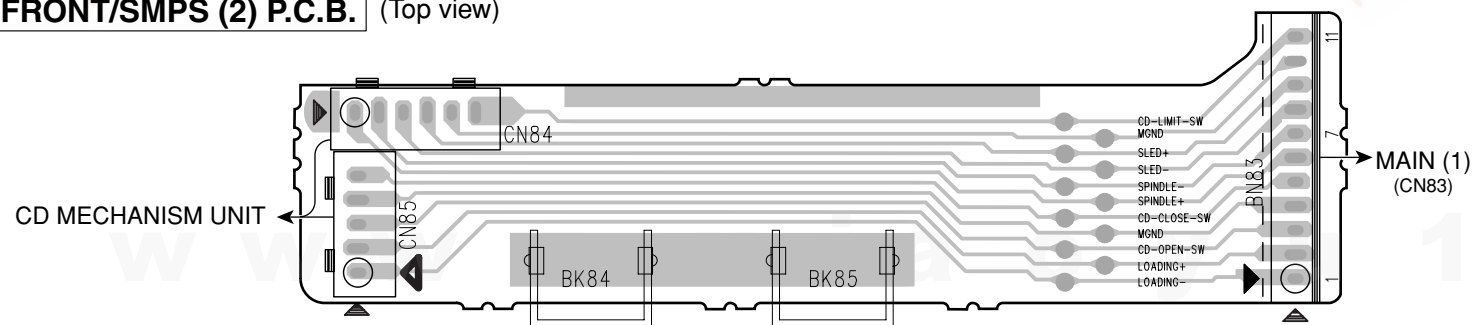
MAIN (2) P.C.B. (Bottom view)



FRONT/SMPS (1) P.C.B. (Top view)



FRONT/SMPS (2) P.C.B. (Top view)



1

2

3

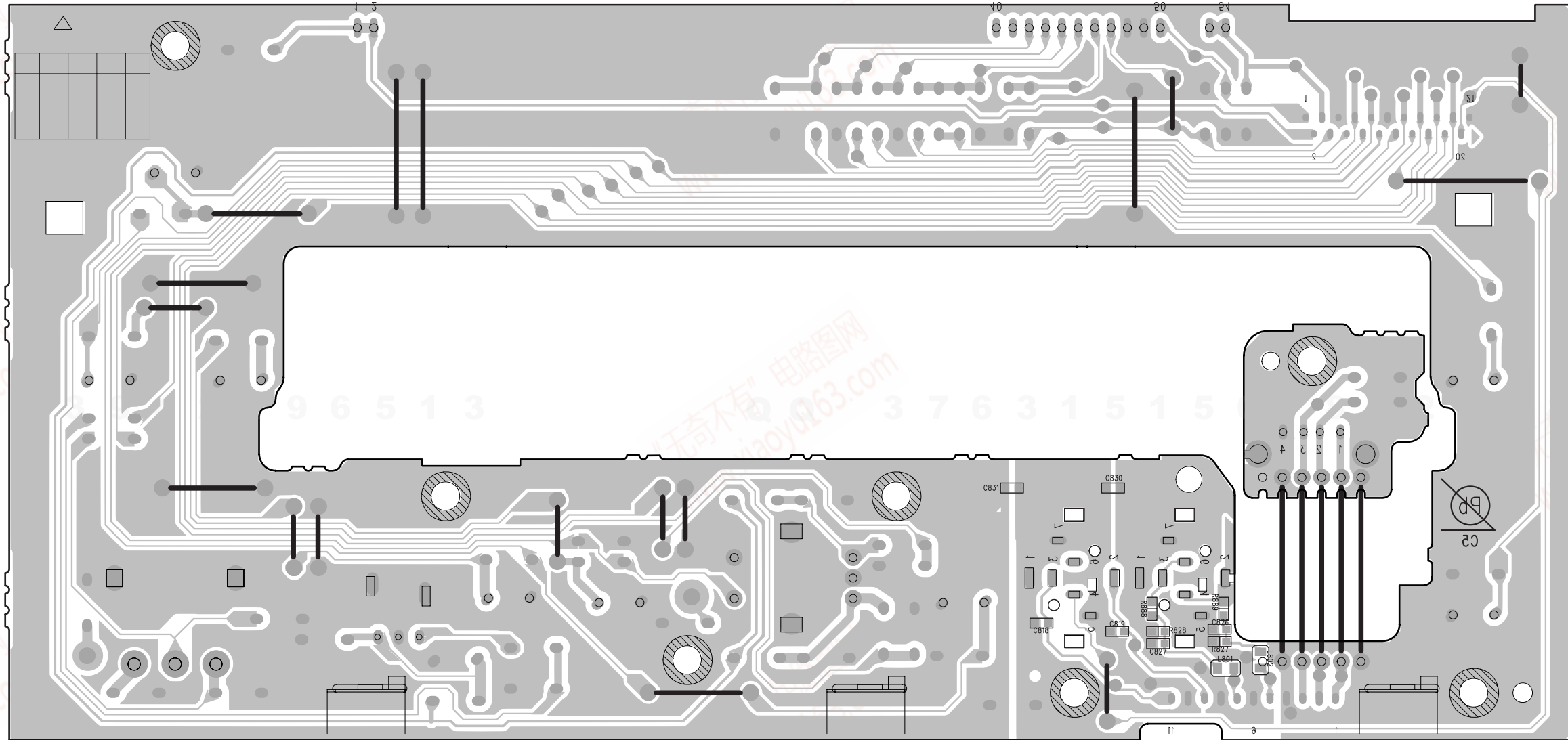
4

5

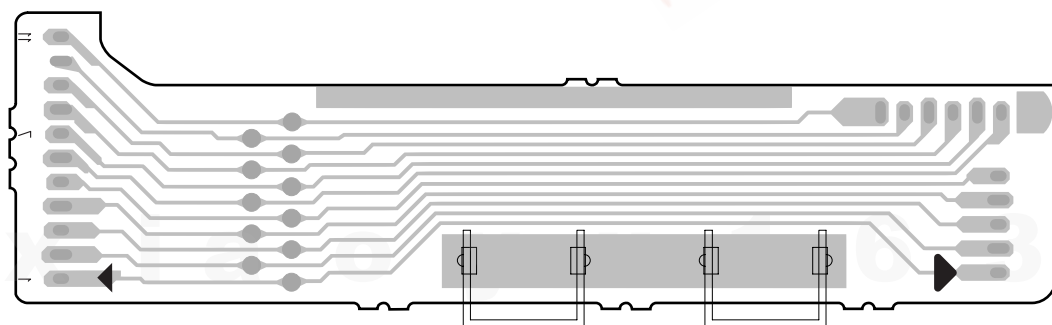
6

7

FRONT/SMPS (1) P.C.B. (Bottom view)

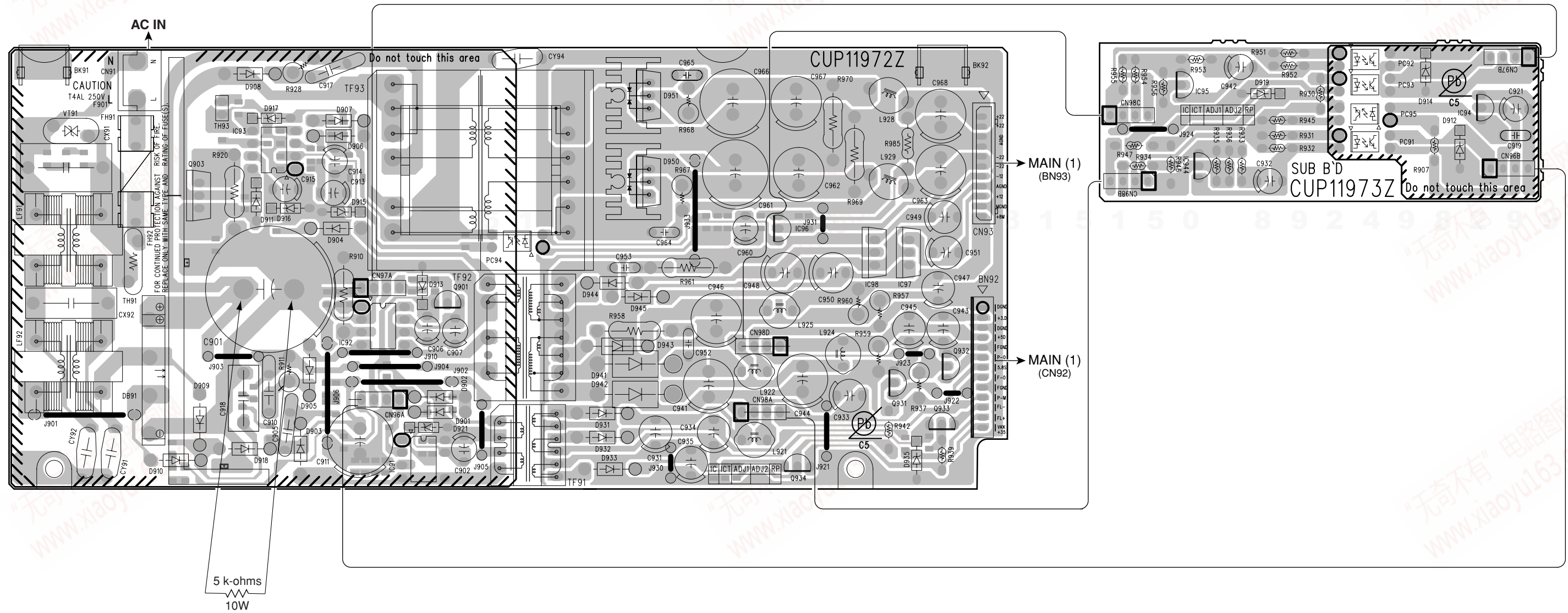


FRONT/SMPS (2) P.C.B. (Bottom view)



FRONT/SMPS (3) P.C.B. (Top view)

CONNECTOR P.C.B. (Top view)



Safety Measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- C901 on the FRONT/SMPS (3) P.C.B. are dangerous, for a high voltage is retained there even after the power is turned off. Before the repair work, connect a resistor about 5 k-ohms/10 W between terminals of the capacitor to force discharge. After the repair work, also perform force discharge by connecting a resistor about 5 k-ohms/10 W between terminals of the capacitor.

安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- FRONT/SMPS (3) P.C.B.のC901には電源OFF後も高電圧が維持されるため危険です。修理前に5 kΩ/10 W程度の抵抗をコンデンサの端子間に接続して強制放電してください。また、修理後も同様に5 kΩ/10 W程度の抵抗をコンデンサの端子間に接続して強制放電してください。

1

2

FRONT/SMPS (3) P.C.B. (Bottom view)

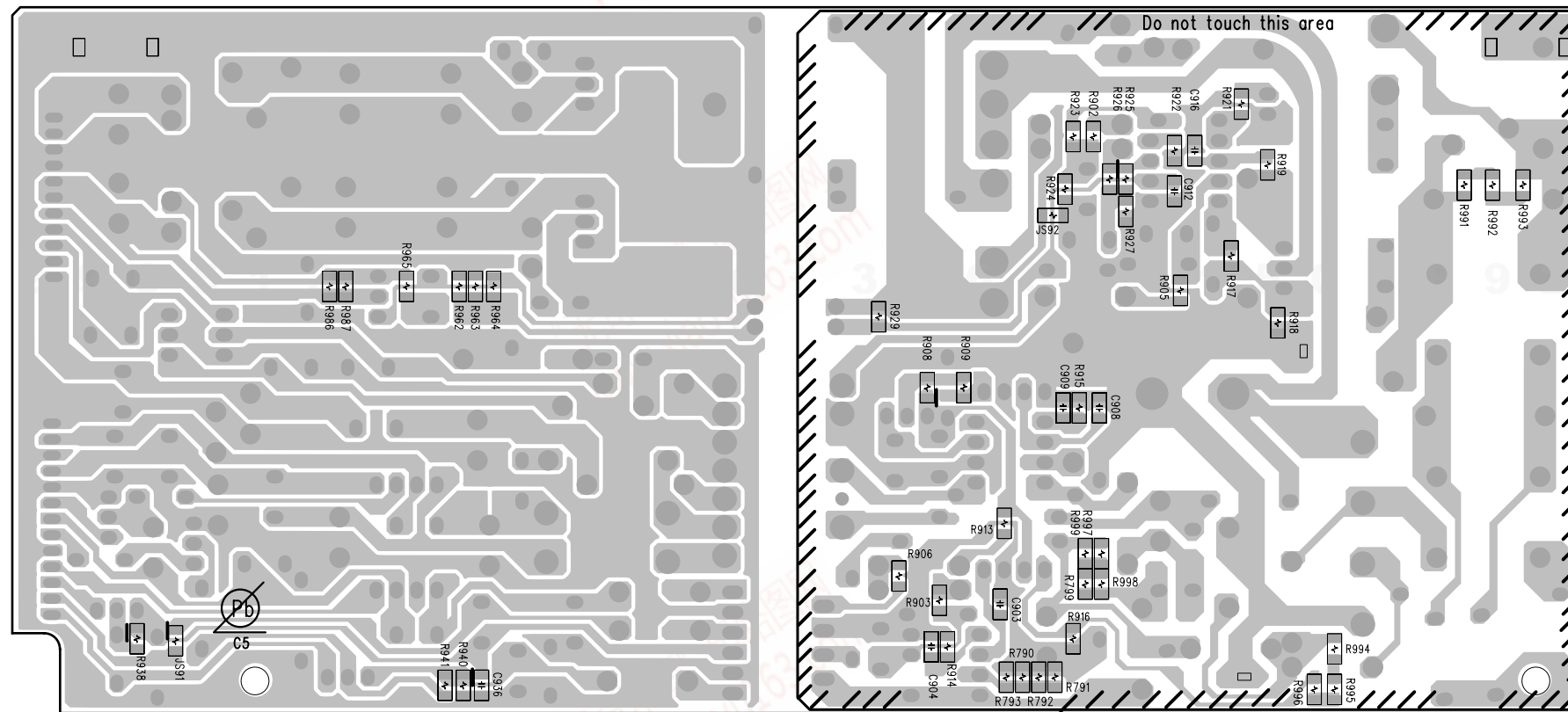
3

4

5

6

7



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SCHEMATIC DIAGRAMS

CRX-E320

Note) The electrical parts available as servicing parts are those in the replacement parts list only. When replacement of any electrical part other than those in the list is necessary, replace the P.C.B. assembly which includes that part.

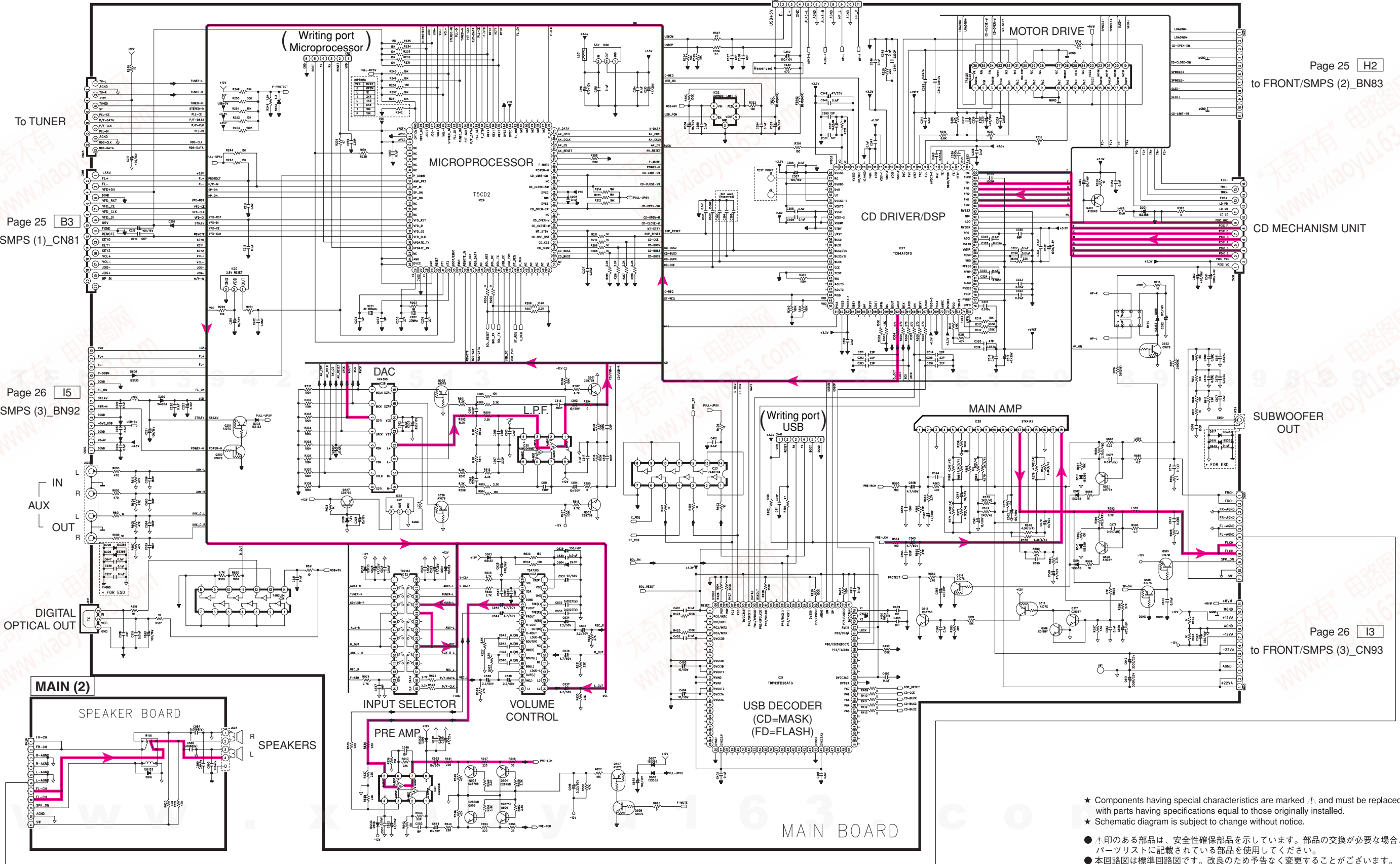
注) 電気部品リストに記載されている電気部品のみ、サービス部品として供給できます。電気部品リストに記載されていない電気部品の交換が必要な場合は、その電気部品を搭載している「P.C.B. ASSY」を交換してください。

MAIN

MAIN (1)

Page 25 E7 to FRONT/SMPS (1)_BN82

Page 25 H2 to FRONT/SMPS (2)_BN83



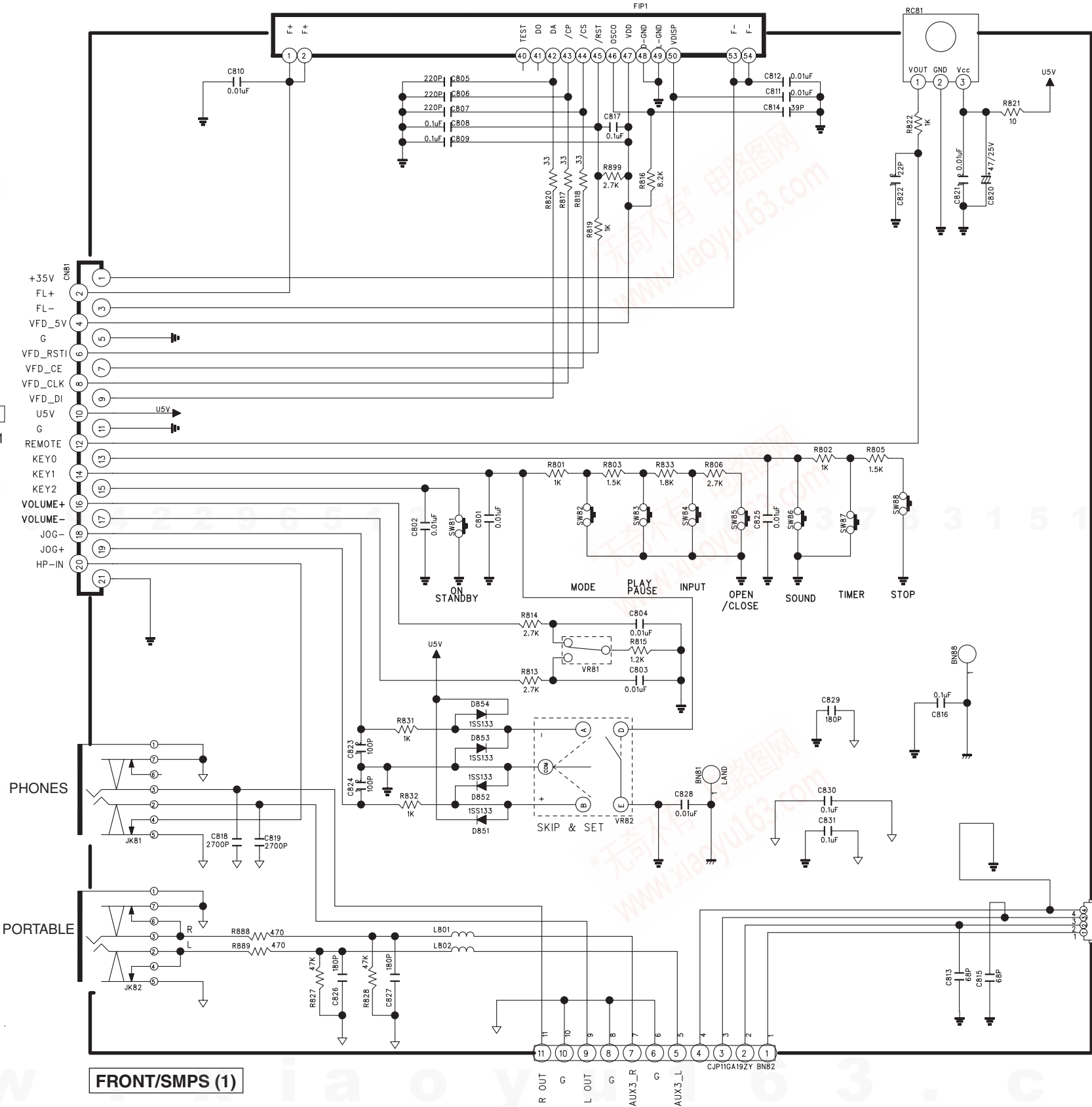
Page 25 B3 to FRONT/SMPS (1)_CN81

Page 26 I5 to FRONT/SMPS (3)_BN92

Page 26 I3 to FRONT/SMPS (3)_CN93

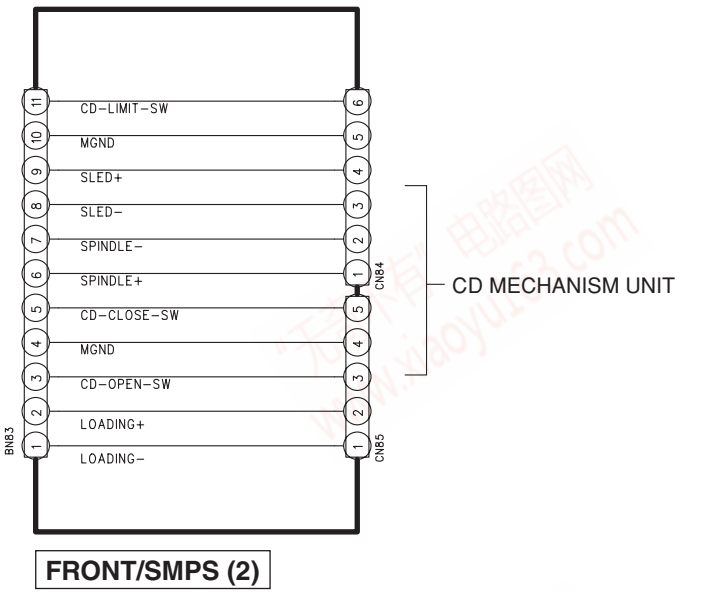
- ★ Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- ★ Schematic diagram is subject to change without notice.
- Δ 印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
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FRONT/SMPS 1/2



Page 24 B3 to MAIN (1)_CN81

Page 24 G2 to MAIN (1)_CN82



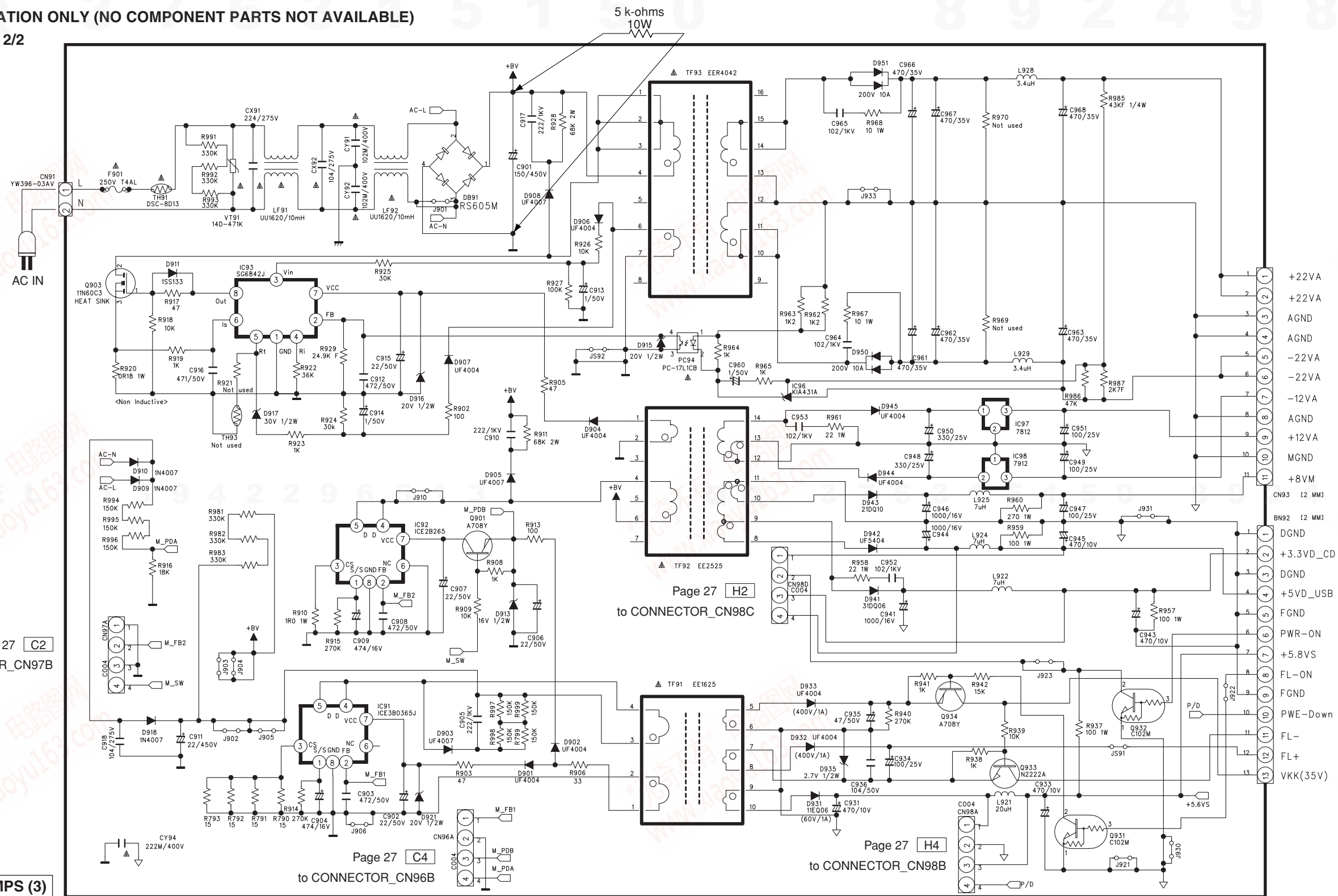
Page 24 I2 to MAIN (1)_CN83

FRONT/SMPS (2)

★ Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 ★ Schematic diagram is subject to change without notice.

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FOR INFORMATION ONLY (NO COMPONENT PARTS NOT AVAILABLE)
FRONT/SMPS 2/2



Page 24 [I6]
to MAIN (1)_BN93

Page 24 [B4]
to MAIN (1)_CN92

Page 27 [C2]
to CONNECTOR_CN97B

Page 27 [C4]
to CONNECTOR_CN96B

Page 27 [H2]
to CONNECTOR_CN98C

Page 27 [H4]
to CONNECTOR_CN98B

FRONT/SMPS (3)

Safety Measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- C901 on the FRONT/SMPS (3) P.C.B. are dangerous, for a high voltage is retained there even after the power is turned off.
Before the repair work, connect a resistor about 5 k-ohms/10 W between terminals of the capacitor to force discharge.
After the repair work, also perform force discharge by connecting a resistor about 5 k-ohms/10 W between terminals of the capacitor.

安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- FRONT/SMPS (3) P.C.B.のC901には電源OFF後も高電圧が維持されるため危険です。修理前に5 kΩ/10 W程度の抵抗をコンデンサの端子間に接続して強制放電してください。また、修理後も同様に5 kΩ/10 W程度の抵抗をコンデンサの端子間に接続して強制放電してください。

★ Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

● Δ 印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
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CONNECTOR

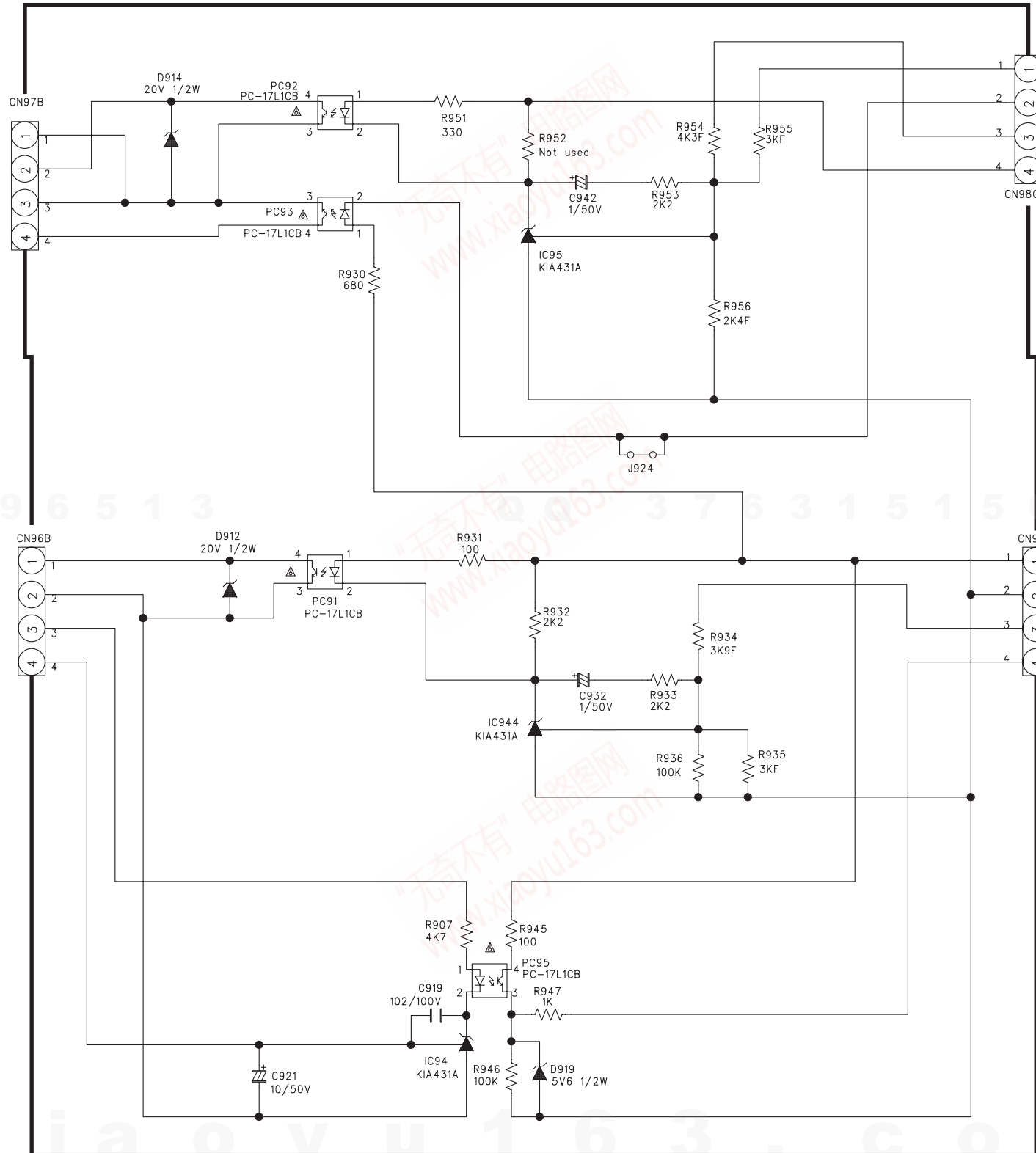
CONNECTOR

Page 26 B5
to FRONT/SMPS (3)_CN97A

Page 26 D6
to FRONT/SMPS (3)_CN96A

Page 26 F5
to FRONT/SMPS (3)_CN98D

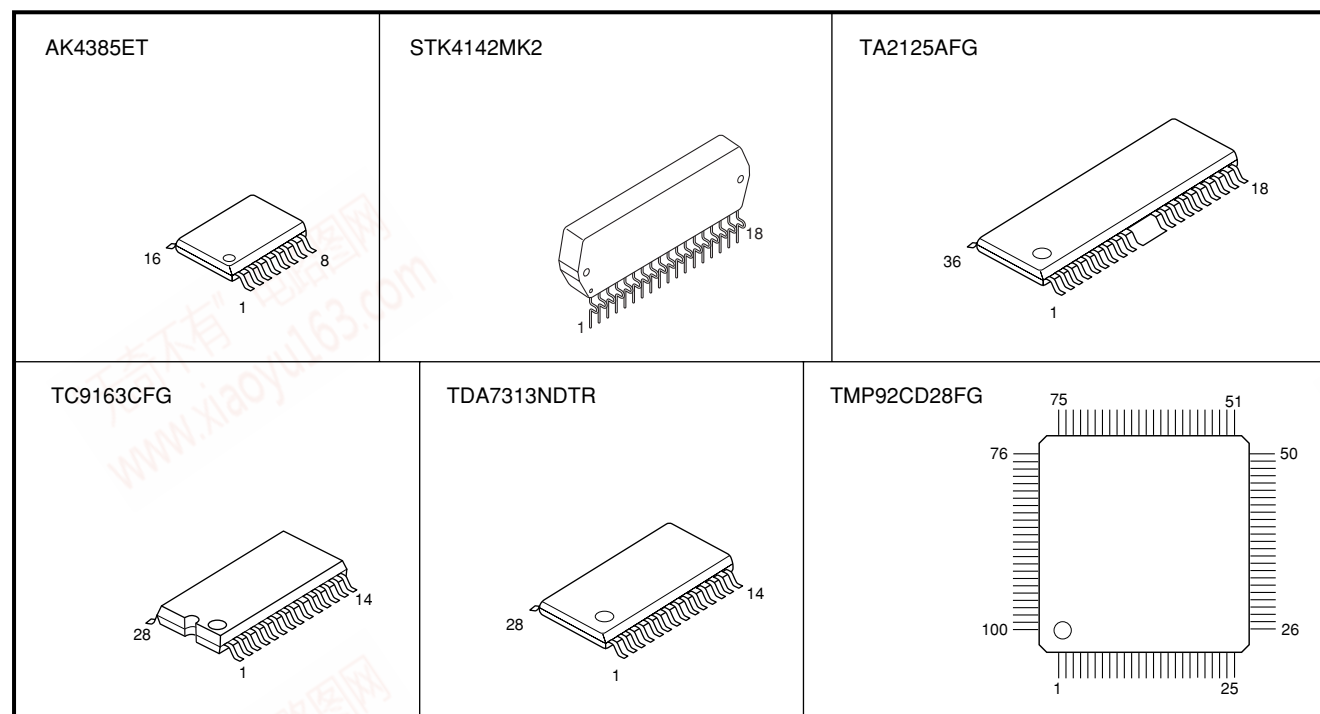
Page 26 G6
to FRONT/SMPS (3)_CN98A



★ Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 ★ Schematic diagram is subject to change without notice.
 ● Δ 印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
 ● 本回路図は標準回路図です。改良のため予告なく変更することがございます。

■ PIN CONNECTION DIAGRAMS

• ICs



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REPLACEMENT PARTS LIST

ELECTRICAL COMPONENT PARTS

WARNING

- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
Δ印のある部分は、安全確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
部品価格ランクは、予告なく変更することがあります。

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

Table of abbreviations for electrical components, including categories like C.A.EL.CHP, C.CE, C.CE.ARRAY, etc., and their corresponding full names.

CRX-E320

Note) The electrical parts available as servicing parts are those in the replacement parts list only. When replacement of any electrical part other than those in the list is necessary, replace the P.C.B. assembly which includes that part.

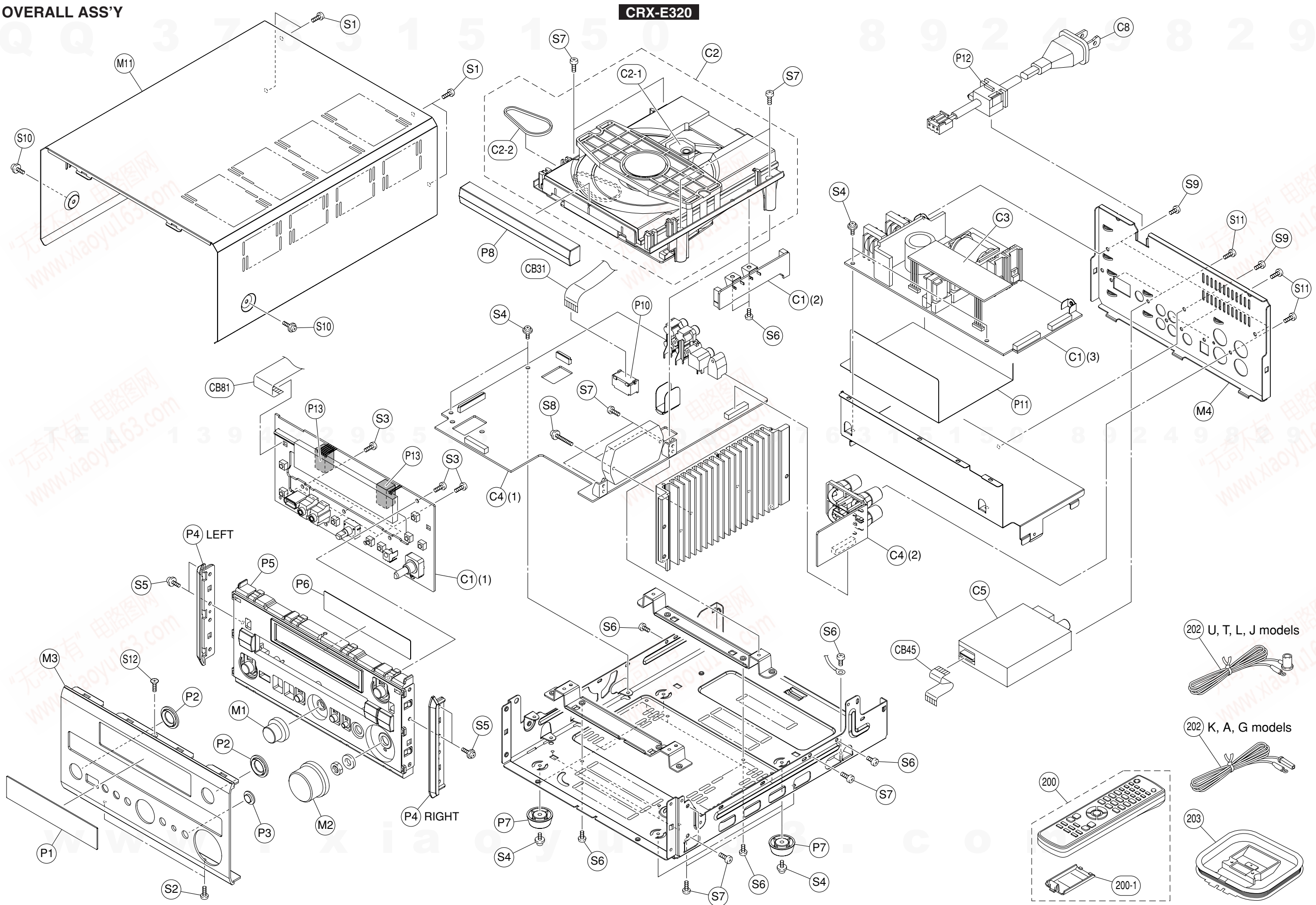
注) 電気部品リストに記載されている電気部品のみ、サービス部品として供給できます。電気部品リストに記載されていない電気部品の交換が必要な場合は、その電気部品を搭載している「P.C.B. ASSY」を交換してください。

Main parts list table with columns: Ref No., Part No., Description, Remarks, Markets, 部品名, ランク. Includes parts like AAX83230, AAX83270, AAX83260, etc.

* New Parts * 新規部品

• OVERALL ASS'Y

CRX-E320



202 U, T, L, J models

202 K, A, G models

203

200-1

Ref No.	Part No.	Description	Remarks	Markets	部品名	ランク
C1	AAx83200	P. C. B. ASS'Y	FRONT/SMPS		PCB フロント・SMPS	
C2	AAx78140	CD MECHANISM UNIT	KSL2130CCMZ		CDメカニズムユニット	17
C2-1	AAx82720	PICK UP UNIT	KSS-213C		ピックアップユニット	
C2-2	AAx78500	BELT	9A07980900		ベルト	
C3	AAx83190	P. C. B. ASS'Y	CONNECTOR		PCB コネクタ	
C4	AAx83230	P. C. B. ASS'Y	MAIN	J	PCB メイン	
C4	AAx83270	P. C. B. ASS'Y	MAIN	U	PCB メイン	
C4	AAx83260	P. C. B. ASS'Y	MAIN	T	PCB メイン	
C4	AAx83240	P. C. B. ASS'Y	MAIN	K	PCB メイン	
C4	AAx83210	P. C. B. ASS'Y	MAIN	A	PCB メイン	
C4	AAx83220	P. C. B. ASS'Y	MAIN	G	PCB メイン	
C4	AAx83250	P. C. B. ASS'Y	MAIN	L	PCB メイン	
C5	AAx83400	MODULE TUNER	MV114MA1-17		チューナーモジュール	
C8	AAx74330	POWER CABLE	2m	J	電源コード	04
C8	AAx74370	POWER CABLE	2m	U	電源コード	
C8	AAx74350	POWER CABLE	2m	T	電源コード	
C8	AAx74320	POWER CABLE	2m	K	電源コード	
C8	AAx74360	POWER CABLE	2m	A	電源コード	
C8	AAx74310	POWER CABLE	2m	GL	電源コード	
CB31	AAx83330	FLEXIBLE FLAT CABLE	16P 150mm P=1.0		カード電線	
CB45	AAx83320	FLEXIBLE FLAT CABLE	13P 60mm P=1.25		カード電線	
CB81	AAx83340	FLEXIBLE FLAT CABLE	21P 180mm P=1.0		カード電線	
M1	AAx74020	JOG KNOB ASS'Y	GD		ジョグノブASSY	
M1	AAx80880	JOG KNOB ASS'Y	BL		ジョグノブASSY	09
M1	AAx74030	JOG KNOB ASS'Y	SI		ジョグノブASSY	07
M2	AAx74160	VOLUME KNOB ASS'Y	GD		ボリュームノブASSY	
M2	AAx80920	VOLUME KNOB ASS'Y	BL		ボリュームノブASSY	09
M2	AAx74170	VOLUME KNOB ASS'Y	SI		ボリュームノブASSY	07
M3	AAx83450	PANEL AL FRONT	GD		フロントパネル	
M3	AAx83460	PANEL AL FRONT	BL		フロントパネル	
M3	AAx83440	PANEL AL FRONT	SI		フロントパネル	
M4	AAx83500	PANEL REAR		J	リアパネル	
M4	AAx83520	PANEL REAR		U	リアパネル	
M4	AAx83490	PANEL REAR		T	リアパネル	
M4	AAx83480	PANEL REAR		K	リアパネル	
M4	AAx83530	PANEL REAR		A	リアパネル	
M4	AAx83540	PANEL REAR		G	リアパネル	
M4	AAx83510	PANEL REAR		L	リアパネル	
M11	AAx83410	TOP COVER	GD		トップカバー	
M11	AAx80890	TOP COVER	BL		トップカバー	10
M11	AAx74040	TOP COVER	SI		トップカバー	11
P1	AAx83010	WINDOW FL			FLウィンドウ	
P2	AAx74090	KNOB ORNAMENT STANDBY/ON	GD		ノブ飾り	
P2	AAx79300	KNOB ORNAMENT STANDBY/ON	BL		ノブ飾り	01
P2	AAx74080	KNOB ORNAMENT STANDBY/ON	SI		ノブ飾り	02
P3	AAx83180	IR LENS	GD, SI		IRレンズ	
P3	AAx83180	IR LENS	BL		IRレンズ	
P4	AAx73980	SIDE BAR			サイドバー	02
P5	AAx83370	SUB PANEL ASS'Y	GD		サブパネルASSY	
P5	AAx83360	SUB PANEL ASS'Y	BL		サブパネルASSY	
P5	AAx83380	SUB PANEL ASS'Y	SI		サブパネルASSY	
P6	AAx83040	SHEET FL ORANGE	GD		FLシート	
P6	AAx83030	SHEET FL BLUE	BL, SI		FLシート	
P7	AAx74300	FOOT			脚	01
P8	AAx83420	TRAY LID (DOOR ORNAMENT)	GD		トレイリッド	
P8	AAx79280	TRAY LID (DOOR ORNAMENT)	BL		トレイリッド	05
P8	AAx79290	TRAY LID (DOOR ORNAMENT)	SI		トレイリッド	
P10	AAx83350	GUIDE CABLE			ケーブルガイド	
P11	AAx83310	INSULATOR SMPS			インシュレーターSMPS	

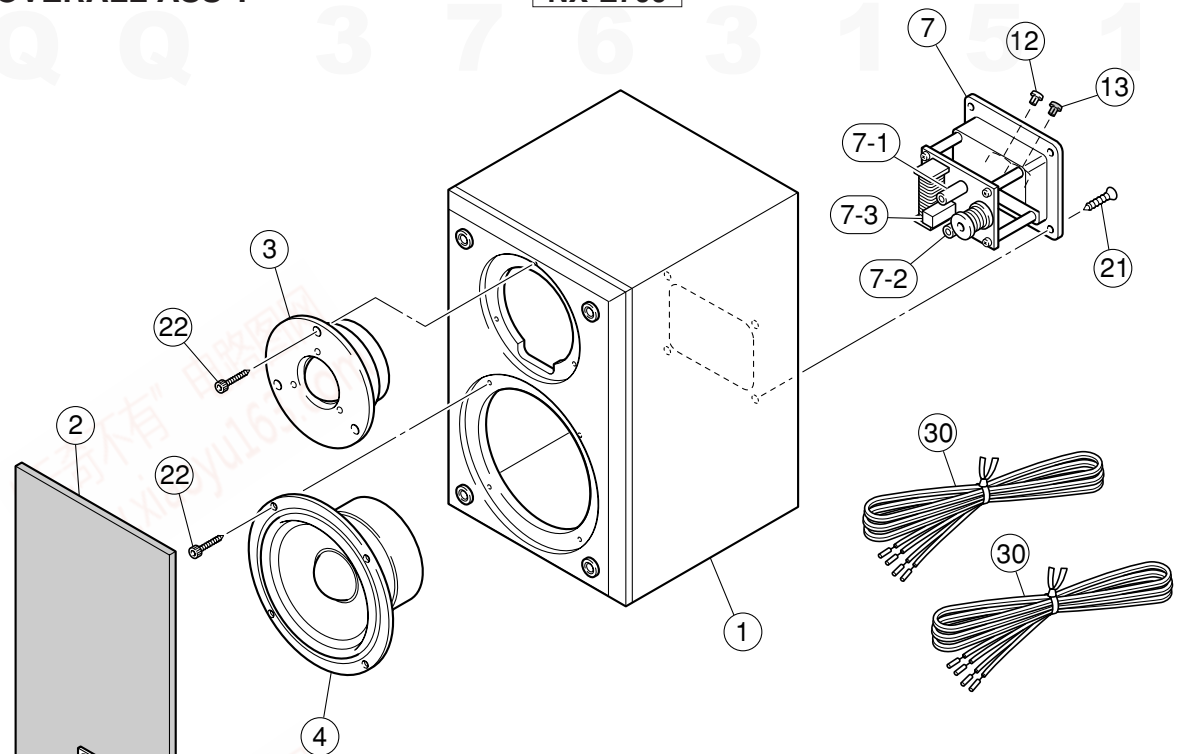
* New Parts * 新規部品

Ref No.	Part No.	Description	Remarks	Markets	部品名	ランク
P12	AAx73380	CORD STOPPER			KHR1A028	
P13	AAx83020	RUBBER FL			CHG1A364	
S1	AAx73500	BIND HEAD B-TIGHT SCREW	GD, SI 3x8 MFZN2W3		CTB3+8JFC	01
S1	AAx78380	BIND HEAD B-TIGHT SCREW	BL 3x8 MFZN2B3		CTB3+8JFZR	01
S2	AAx74180	BIND HEAD BONDING B-T. SCREW	GD, SI 3x8 MFZN2W3		CTBD3+8JFC	01
S2	AAx80490	BIND HEAD BONDING B-T. SCREW	BL 3x8 MFZN2B3		CTBD3+8JFZR	01
S3	AAx78410	BIND HEAD P-TIGHT SCREW	3x10 MFZN2Y		CTB3+10GR	01
S4	AAx83290	PW HEAD B-TIGHT SCREW	3x8 MFZN2Y		CTW3+6JR	
S5	AAx80140	PW HEAD B-TIGHT SCREW	3x8 MFZN2Y		CTW3+8JR	01
S6	AAx80420	BIND HEAD B-TIGHT SCREW	3x6 MFZN2Y		CTB3+6JR	01
S7	AAx78390	BIND HEAD B-TIGHT SCREW	3x8 MFZN2Y		CTB3+8JR	01
S8	AAx83280	PW HEAD B-TIGHT SCREW	3x18 MFZN2Y		CTW3+18JR	
S9	AAx80430	BIND HEAD SCREW	3x6 MFZN2B3		CTB3+6FFZR	01
S10	AAx73930	PW HEAD B-TIGHT SCREW	GD, SI 3x8 MFZN2W3		CTW3+8JFC	01
S10	AAx78230	PW HEAD B-TIGHT SCREW	BL 3x8 MFZN2B3		CTW3+8JFZR	01
S11	AAx78400	BIND HEAD P-TIGHT SCREW	3x10 MFZN2B3		CTB3+10GFZR	01
S12	AAx80600	FLAT HEAD B-TIGHT SCREW	3x8 MFZN2Y		CTS3+8JR	01
200	WK015500	ACCESSORIES				
200	WK015400	REMOTE CONTROL		JUTKAL	付属品	
200-1	AAx57560	BATTERY COVER	103RRS-141-07L	G	リモコン	
202	AAx76680	INDOOR FM ANTENNA	1pc	JUTL	リモコン	04
202	AAx73240	INDOOR FM ANTENNA	1pc	KAG	電池蓋	03
203	AAx73180	AM LOOP ANTENNA	1pc		F M簡易アンテナ	03
		BATTERY	R6, AA, UM-3 2pcs		A Mループアンテナ	04
					単 3 乾電池	

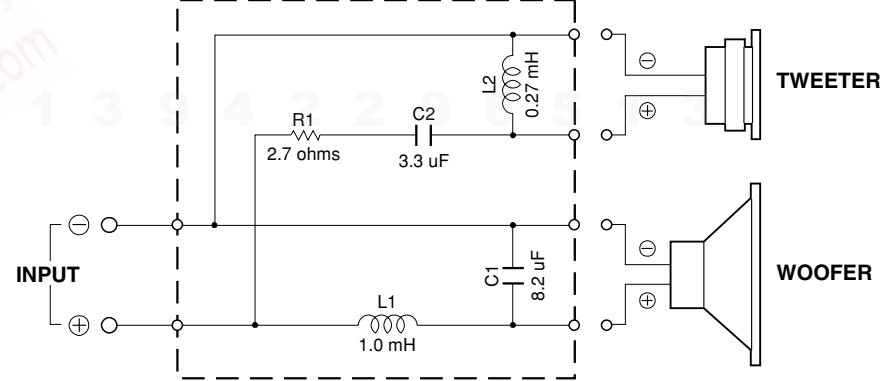
* New Parts * 新規部品

OVERALL ASS'Y

NX-E700



NETWORK CIRCUIT DIAGRAM

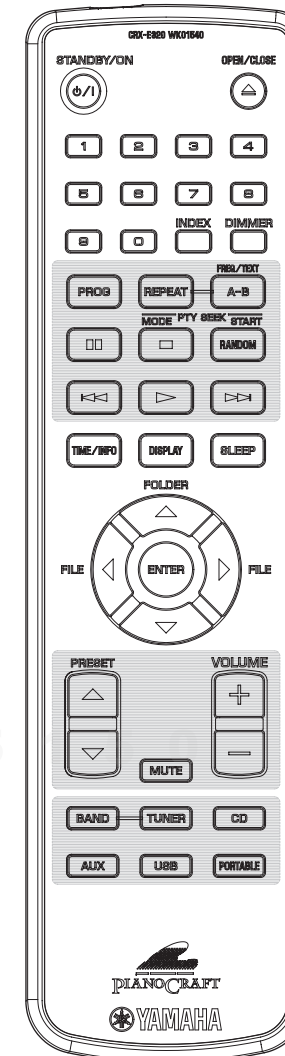
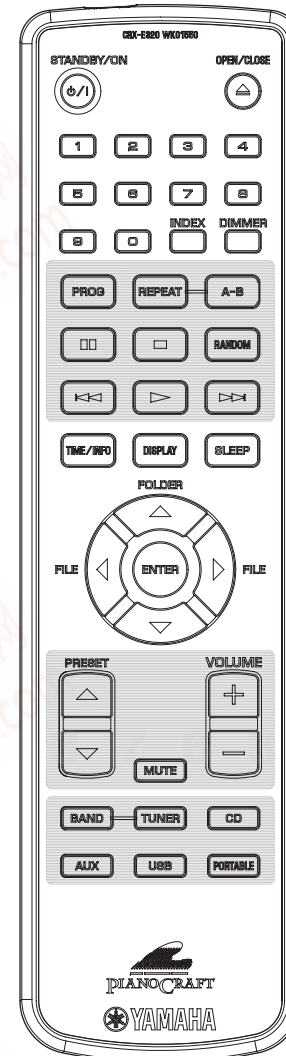


REMOTE CONTROL

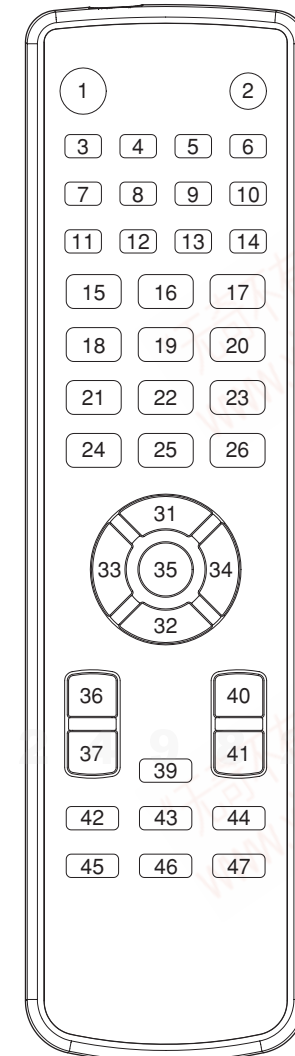
PANELS

U, T, K, A, L, J models

G model



KEY LAYOUT



Ref No.	Part No.	Description	Remarks	Markets	部品名	ランク
1	WG237700	CABINET ASS'Y	BL		キャビネットASSY	
2	WG237800	FRONT GRILLE ASS'Y			フロントグリルASSY	
3	XM275B00	DRIVER TWEETER	2.5cm 5Ω	JA05U3	スピーカーユニット	
4	XZ668C00	DRIVER WOOFER	11cm 6Ω	JA1151	スピーカーユニット	
7	V9504600	NETWORK ASS'Y			ネットワークASSY	
7-1	V6055400	ELECTROLYTIC CAP	8.2uF 63V		B Pケミコン	04
7-2	V6367500	ELECTROLYTIC CAP	3.3uF 63V		B Pケミコン	
7-3	V9507500	CEMENT RESISTOR	2.7Ω 5W		セメント抵抗	01
12	V5361400	TERMINAL CAP	S06E RED		ターミナルキャップ	
13	V5361500	TERMINAL CAP	S06E BLACK		ターミナルキャップ	
21	WE963200	FLAT HEAD WOOD SCREW	3.5x20 MFZN2B3		皿木ネジ	
22	V9506100	HEXAGON HEAD WOOD SCREW	4x25 MFZN2BL		六角穴付き木ネジ	
30	V9826900	ACCESSORIES SPEAKER CABLE	4m 1pc		付属品 スピーカーケーブル	

* New Parts * 新規部品

• KEY CODE

Key no.	Common code	Function			
		AMP	CD (K44)	TUNER (K43)	USB (K46)
1	78-0F	STANDBY/ON	–	–	–
2	78-00	OPEN/CLOSE ▲	OPEN/CLOSE ▲	–	–
3	78-11	1	1	1	1
4	78-12	2	2	2	2
5	78-13	3	3	3	3
6	78-14	4	4	4	4
7	78-15	5	5	5	5
8	78-16	6	6	6	6
9	78-17	7	7	7	7
10	78-18	8	8	8	8
11	78-19	9	9	–	9
12	78-10	0	0	–	0
13	78-0E	INDEX	INDEX	–	–
14	78-BA	DIMMER	–	–	–
15	78-0B	PROG	PROGRAM	–	PROG
16	78-0C	REPEAT	REPEAT	–	REPEAT
17	78-BE	A-B	Repeat A-B	(FREQ/TEXT)	–
18	78-B9	PAUSE ■■	PAUSE ■■	–	PAUSE ■■
19	78-01	STOP ■	STOP ■	(MODE)	CLEAR / STOP ■
20	78-07	RANDOM	SHUFFLE	(START)	RANDOM
21	78-04	SKIP/SEARCH - ◀◀	SKIP/SEARCH - ◀◀	–	SKIP/SEARCH - ◀◀
22	78-02	PLAY ▶	PLAY ▶	–	PLAY ▶
23	78-03	SKIP/SEARCH + ▶▶	SKIP/SEARCH + ▶▶	–	SKIP/SEARCH + ▶▶
24	78-0A	TIME/INFO	TIME/INFO	–	TIME/INFO
25	78-4E	DISPLAY	–	–	–
26	78-4F	SLEEP	–	–	–
31	78-8E	FOLDER ▲	FOLDER ▲	–	FOLDER ▲
32	78-8F	FOLDER ▼	FOLDER ▼	–	FOLDER ▼
33	78-9F	FILE ◀	FILE ◀	–	FILE ◀
34	78-9E	FILE ▶	FILE ▶	–	FILE ▶
35	78-C1	ENTER	ENTER	–	ENTER
36	78-1B	PRESET ▲	–	PRESET/CH ▲	–
37	78-1C	PRESET ▼	–	PRESET/CH ▼	–
39	78-9C	MUTE	–	–	–
40	78-1E	VOLUME +	–	–	–
41	78-1F	VOLUME -	–	–	–
42	78-B6	BAND	–	BAND	–
43	78-4B	TUNER	–	–	–
44	78-4A	CD	–	–	–
45	78-49	AUX	–	–	–
46	78-BC	USB	–	–	–
47	78-DF	PORTABLE	–	–	–

* (xxx): G model

CRX-E320/
NX-E700

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CRX-E320/NX-E700



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