

MICRO COMPONENT SYSTEM RDX-E600 RX-E600/NX-E400

SERVICE MANUAL

RX-E600/NX-E400

The RDX-E600 is composed of the RX-E600, NX-E400 and the DVD-E600.
This service manual is for the RX-E600 and the NX-E400.
For the DVD-E600 service manual, please refer to the following publication number:

DVD-E600 100924

RDX-E600はRX-E600、NX-E400及びDVD-E600で構成されています。
このサービスマニュアルはRX-E600及びNX-E400用です。
DVD-E600のサービスマニュアルは下記を参照してください。

DVD-E600 100924

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.

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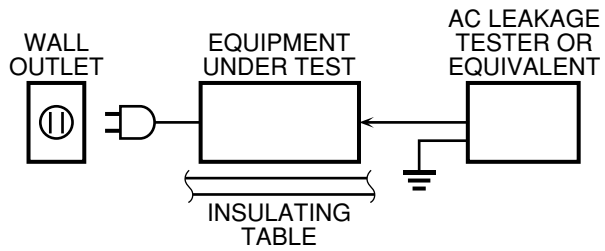


YAMAHA
YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan

'04.09

■ 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 ohm shunted by 0.15μF.



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



“CAUTION”

“F232: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 3.15A, 125V FUSE.”

CAUTION

F232: REPLACE WITH SAME TYPE 3.15A, 125V FUSE.

ATTENTION

F232: UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE DE 3.15A, 125V.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the manufacturing process except soldering of the P.C.B. ass'y 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!

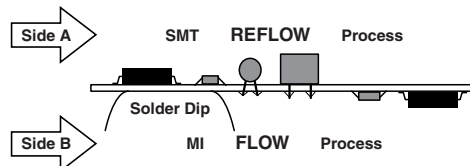
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

About Lead Free Solder / 無鉛ハンダについて

The P.C.B.s installed in this unit are soldered using the following solder.

本機に搭載されている基板のハンダ付けに使用されているハンダは下記の通りです。

| | SIDE A / A面 | SIDE B / B面 |
|-----------------|-------------|--------------------------|
| MAIN P.C.B | - | Lead Free Solder / 無鉛ハンダ |
| OPERATION P.C.B | - | Lead Free Solder / 無鉛ハンダ |



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)

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:

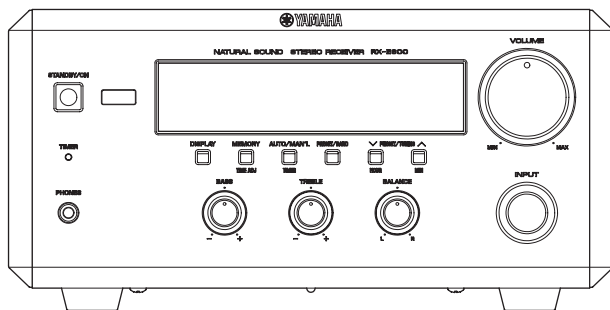
1. As the melting point temperature of the lead free solder is about 30°C to 40°C (50°F to 70°F) higher than that of the lead solder, be sure to use a soldering iron suitable to each solder.
2. If lead solder must be used, be sure to remove lead free solder from each terminal section of the parts to be replaced and from the area around it completely before soldering, or make sure that the lead free solder and lead solder melt together fully.

注意：

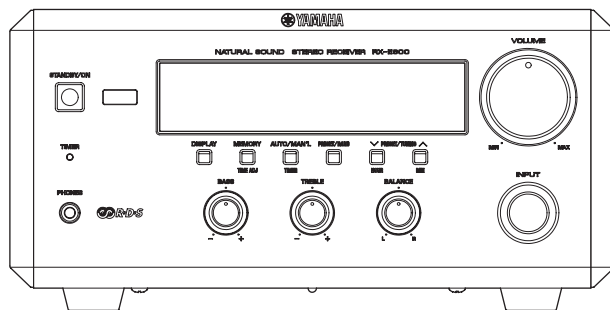
- ① 無鉛ハンダの融点温度は通常の鉛入りハンダに比べ30～40℃程度高くなっていますので、それぞれのハンダに合ったハンダごてをご使用ください。
- ② 鉛入りハンダを使わざるを得ない場合は、あらかじめ交換する部品端子部やその周辺部の無鉛ハンダをすべて取り除くか、あるいは無鉛ハンダと鉛入りハンダが十分に溶けた状態となるようにハンダ付けしてください。

FRONT PANELS

U, C, R, K, A, L, J models



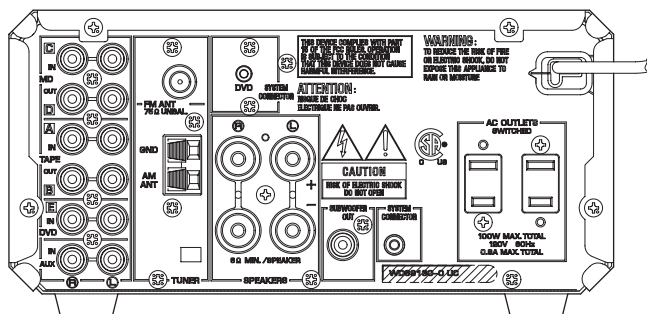
B, G, E models



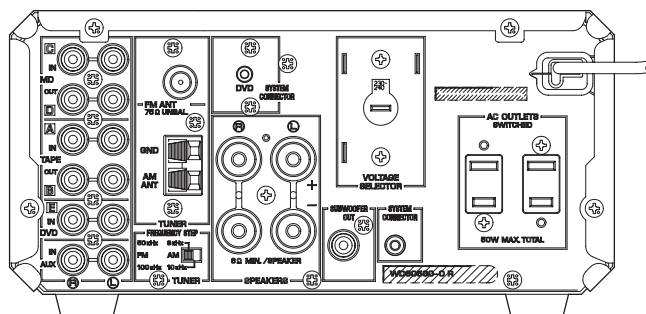
RX-E600/NX-E400

REAR PANELS

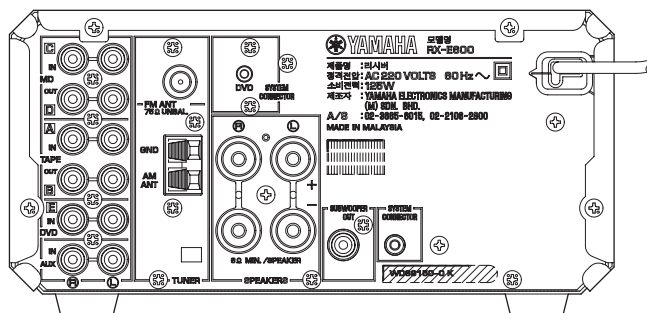
U, C models



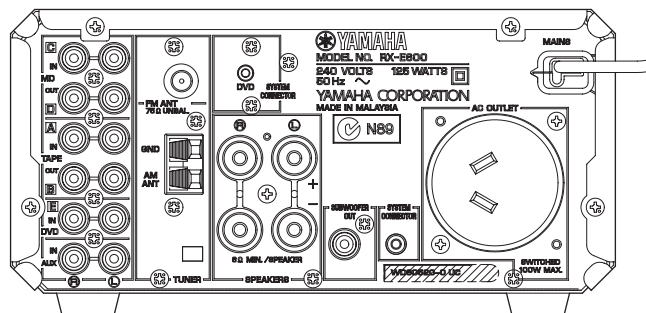
R model



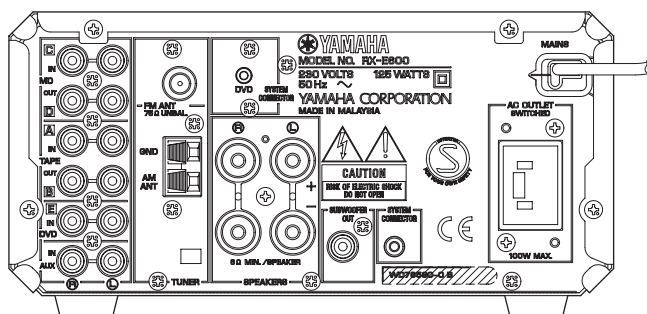
K model



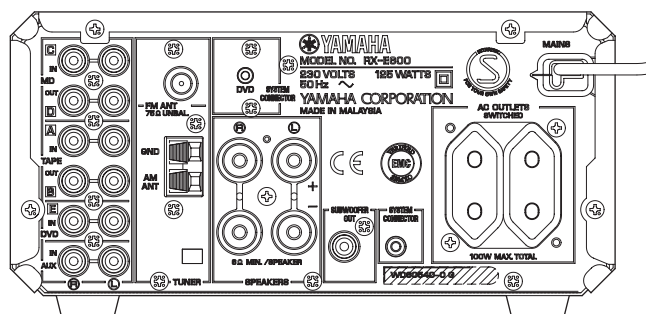
A model



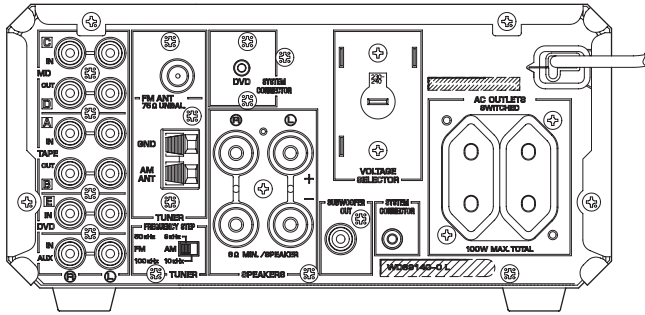
B model



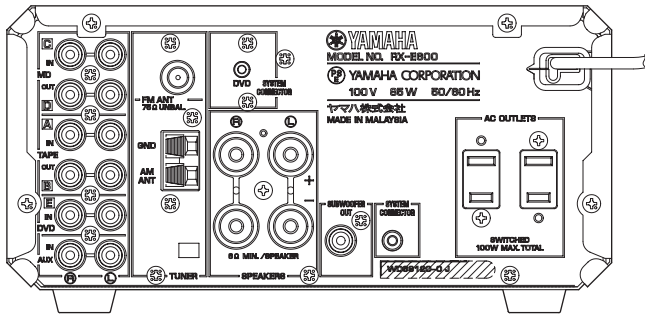
G, E models



L model



J model

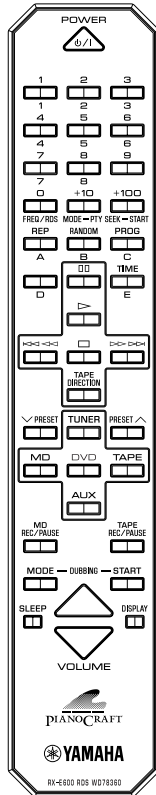
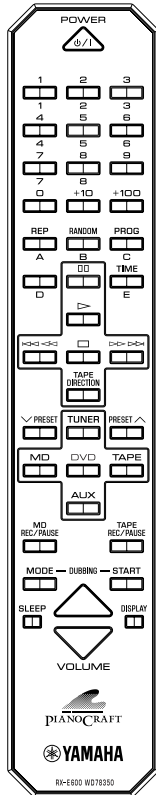


RX-E600/NX-E400

REMOTE CONTROL PANELS

U, C, R, K, A, L, J models

B, G, E models



SPECIFICATIONS / 参考仕様

RX-E600

AUDIO SECTION / オーディオ部

Minimum RMS Output Power Per Channel / 定格出力

20Hz to 20kHz, 0.1% THD, 6 ohms 40W + 40W
 1kHz, 0.1% THD, 6 ohms 55W + 55W

Maximum Power Per Channel / 実用最大出力 (EIAJ)

1kHz, 10% THD, 6 ohms (R, J models) 65W + 65W

Dynamic Power Per Channel / ダイナミックパワー (IHF)

6 ohms 60W + 60W
 4 ohms 75W + 75W
 2 ohms 100W + 100W

DIN Standard Output Power Per Channel / DINパワー

1kHz, 0.7% THD, 4 ohms (G, E models) 60W + 60W

Dynamic Headroom / ダイナミックヘッドルーム (6 ohms)

U, C, models 1.76dB

IEC Power Per Channel / IECパワー

1kHz, 0.1% THD, 6 ohms (G, E models) 55W + 55W

Power Band Width / パワーバンド幅

0.1% THD, 30W/6 ohms 10Hz to 50kHz

Damping Factor / ダンピングファクタ

20Hz to 20kHz, 6 ohms 60 or more

Input Sensitivity/Impedance (入力感度/入力インピーダンス)

DVD, etc 150mV/47k-ohms

Maximum Input Signal Level / 最大許容入力 (1kHz, 0.5% THD)

DVD, etc 3.0V

Output Level/Impedance (出力電圧/出力インピーダンス)

REC OUT (MD, TAPE) 150mV/1.2k-ohms

SUB WOOFER (50Hz) 2.0V/680-ohms

Headphone Jack Rated Output/Impedance (ヘッドフォン出力/出力インピーダンス)

DVD, etc 1kHz, 150mV, 8 ohms 0.43V/330 ohms

Frequency Response / 周波数特性 (20Hz to 20kHz)

DVD, etc 0±0.5dB

Total Harmonic Distortion / 全高調波歪率 (20Hz to 20kHz)

DVD, etc to SP OUT (20W/6 ohms) 0.04%

Signal-to-Noise Ratio / 信号対雑音比 (IHF-A-Network)

DVD, etc, Input Shorted (150mV) 93dB

(250mV) 98dB

Residual Noise / 残留ノイズ (IHF-A-Network)

SP OUT 100µV

Channel Separation / チャンネルセパレーション (Vol. -30dB)

DVD, etc, Input 5.1k-ohms Shorted, 1kHz/10kHz 60dB/45dB

Tone Control Characteristics / トーンコントロール特性

BASS : Boost/cut ±10dB (50Hz)

Turnover Frequency 350Hz

TREBLE : Boost/cut ±10dB (20kHz)

Turnover Frequency 3.5kHz

Filter Characteristics / フィルタ特性

SUB WOOFER (L.P.F.) fc = 100Hz, 6dB/oct.

AM SECTION / AM部

Tuning Range / 受信周波数範囲

U, C models 530 to 1710kHz

R, L models 530 to 1710/531 to 1611kHz

A, B, G, E, J models 531 to 1611kHz

Usable Sensitivity / 実用感度 300µV/m

Antenna / アンテナ入力 Loop antenna

■ FM SECTION / FM部

Tuning Range / 受信周波数範囲
 U, C models 87.5 to 107.9MHz
 R, L models 87.5 to 108.0/87.50 to 108.00MHz
 K, A, B, G, E models 87.50 to 108.00MHz
 J model 76.00 to 108.00MHz

Usable Sensitivity / 実用感度 (75 ohms)
 Mono (S/N 30dB) 1.0μV

Alternate Channel Selectivity / 実用選択度 70dB

Signal-to-Noise Ratio / 信号対雑音比
 Mono/Stereo (IHF) 76/70dB

Harmonic Distortion / 歪率
 Mono/Stereo (1kHz) 0.2/0.3%

Stereo Separation / ステレオセパレーション
 1kHz 45dB

Frequency Response / 周波数特性
 20Hz to 15kHz +0.5/-2.0dB

Antenna Input / アンテナ入力 75 ohms unbalanced

■ GENERAL / 総合

Power Supply / 電源電圧
 U, C models AC 120V, 60Hz
 R, L models AC 110/120/220/240V, 50/60Hz
 K model AC 220V, 60Hz
 A model AC 240V, 50Hz
 B, G, E models AC 230V, 50Hz
 J model AC 100V, 50/60Hz

Power Consumption / 消費電力
 U, C models 110W
 R, K, A, B, G, E, L models 125W
 J model 85W

Standby Power Consumption / 待機時消費電力
 U, C, J models 0.7W
 R, K, A, B, G, E, L models 0.8W

Maximum Power Consumption
 1kHz, 10% THD, 2ch, 6 ohms (R, L models) 255W

AC Outlets / ACアウトレット
 U, C, R, G, E, L, J models, Switched x 2
 100W max (Total)
 A, B models Switched x 1 100W max

Dimensions / 寸法 (W x H x D) 217 x 108 x 372mm
 (8-9/16" x 4-1/4" x 14-5/8")

Weight / 質量 5.4 kg (11 lbs. 14 oz)

Finish / 仕上げ
 Gold color U, C, R, K, A, G, E models
 Silver color U, R, B, G, E, L, J models

Accessories / 付属品 (of RDX-E600) .. AM loop antenna x 1
 Indoor FM antenna x 1
 Remote Control x 1
 Battery (size "UM-3", "R06") x 2

* Specifications subject to change without notice.

※ 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 USA model | B British model |
| C Canadian model | G European model |
| R General model | E South European model |
| K Korean model | L Singapore model |
| A Australian model | J Japanese model |

■ SPEAKER SECTION / スピーカー部 (NX-E400)

Type / 型式 2-way Bass Reflex Magnetic Shielding Type

Driver / スピーカーユニット
 Woofer 13cm (5-1/8") Cone Type
 Tweeter 2.5cm (1") Dome Type

Frequency Response / 再生周波数帯域 55Hz to 28kHz

Impedance / インピーダンス 6 ohms

Nominal Input / 許容入力 60W

Maximum Input / 最大入力 110W

Sensitivity / 出力音圧レベル 87dB/2.83V,1m

Crossover Frequency / クロスオーバー周波数 3kHz

Input Terminal / 入力端子 Screw/Banana Type

Dimensions / 外形寸法 (W x H x D) 186 x 300 x 223mm
 (7-5/16" x 11-13/16" x 8-3/4")

Weight / 質量 4.3 kg (9 lbs. 7 oz)

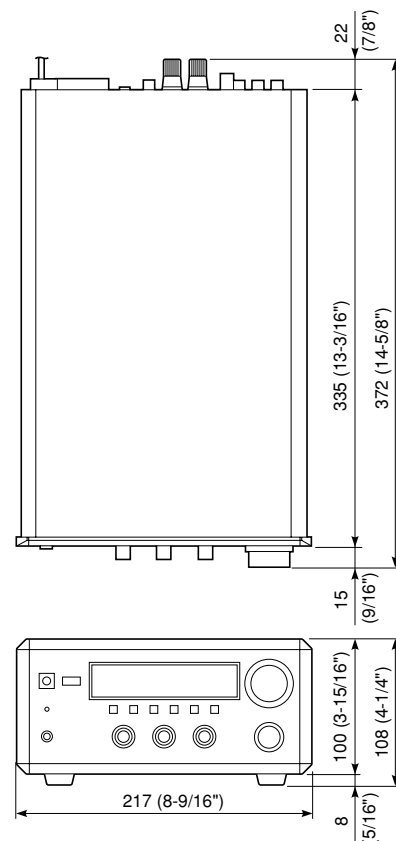
Finish / 仕上げ High Gloss Piano Finish

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

* Specifications subject to change without notice.

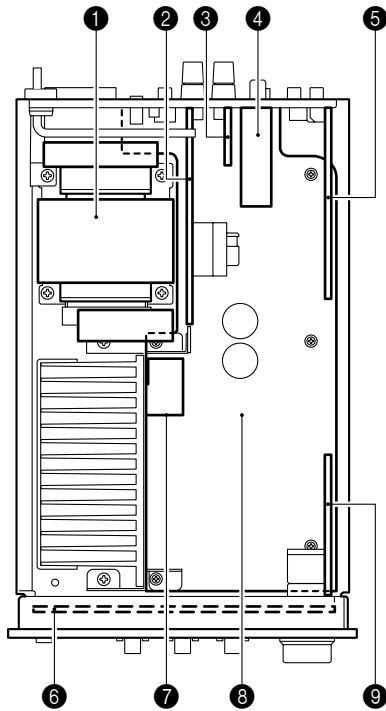
※ 参考仕様および外観は予告なく変更されることがあります。

● DIMENSIONS / 寸法図 (RX-E600)



Unit : mm (inch)
 単位 : mm (インチ)

INTERNAL VIEW



- ① POWER TRANSFORMER
- ② MAIN (4) P.C.B.
- ③ OPERATION (2) P.C.B.
- ④ AM/FM TUNER
- ⑤ MAIN (2) P.C.B.
- ⑥ OPERATION (1) P.C.B.
- ⑦ MAIN (5) P.C.B.
- ⑧ MAIN (1) P.C.B.
- ⑨ MAIN (3) P.C.B.

DISASSEMBLY PROCEDURES / 分解手順

(Remove parts in disassembly order as numbered.)

1. Removal of Top Cover

- a. Remove 4 screws (①) and 4 screws (②) in Fig. 1.
- b. Lift the Top Cover at the rear and move it rearward slantingly.

2. Removal of Front Panel

- a. Disconnect 5 connectors (CB251, CB253, CB210, CB407, CB700) in Fig. 2.
- b. Remove 2 screws (③), 2 screws (④) and 1 push rivet (⑤) in Fig. 1.
- c. Release 2 hooks and remove the Front Panel Unit by pulling it forward.

(番号順に部品を取り外してください。)

1. トップカバーの外し方

- a. ①のネジ4本、②のネジ4本を外します。(Fig. 1)
- b. トップカバーを持ち上げながら後方へ外します。

2. フロントパネルユニットの外し方

- a. コネクター(CB251、CB253、CB210、CB407、CB700)からケーブルを外します。(Fig. 2)
- b. ③のネジ2本、④のネジ2本、⑤のプッシュリベットを外します。(Fig. 1)
- c. パネル両サイドのフックを外して、フロントパネルユニットを前方に引き出します。(Fig. 1)

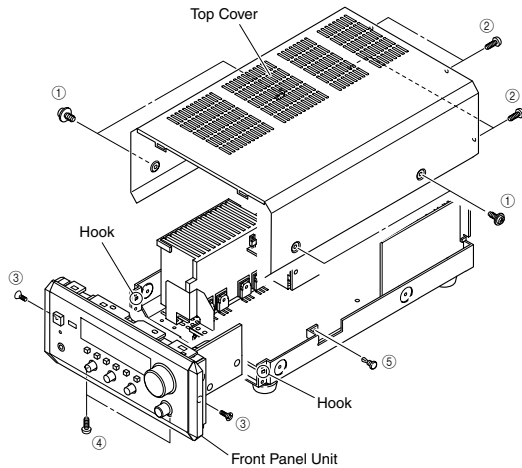


Fig. 1

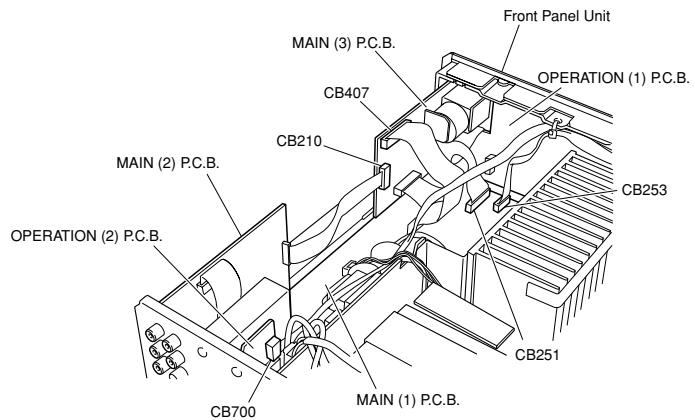


Fig. 2

● **When checking the P.C.B.:**

- Remove the Top Cover and the Front Panel Unit.
- Remove 6 screws (⑥) in Fig. 3.
- Remove 5 screws (⑦) in Fig. 3.
- Remove 3 screws (⑧) in Fig. 3.
- Remove the Power Transformer and Main P.C.B. (with the rear panel attached) from the main chassis.
- With the rear panel attached, set the Main P.C.B. on its side. At this time, set the Power Transformer on its side as well in Fig. 4.
- Using a lead wire or the like, connect G250 of the Main (1) P.C.B. with the rear panel in Fig. 4.
- With the Front Panel Unit set on its side, connect 5 connectors (CB251, CB253, CB210, CB407, CB700) in Fig. 5.
- Connect the power cable, turn on the power and check for operation.

● **P.C.B.チェックをする場合には：**

- トップカバー、フロントパネルユニットを取り外します。
- ⑥のネジ6本を外します。(Fig. 3)
- ⑦のネジ5本を外します。(Fig. 3)
- ⑧のネジ3本を外します。(Fig. 3)
- メインシャーシから電源トランス、MAIN P.C.B.を(リアパネルに取り付けたまま)取り外します。
- MAIN P.C.Bをリアパネルがついた状態で、側面を下に置きます。この時、電源トランスも同様に、側面を下に置きます。(Fig. 4)
- リード線または同種のものを使用して、MAIN (1) P.C.B.のG250をリアパネルに接続します。(Fig. 4)
- フロントパネルユニットの側面を下に置き、5つのコネクタ(CB251、CB253、CB210、CB407、CB700)を接続します。(Fig. 5)
- パワーケーブルを接続し、電源をONにして動作チェックします。

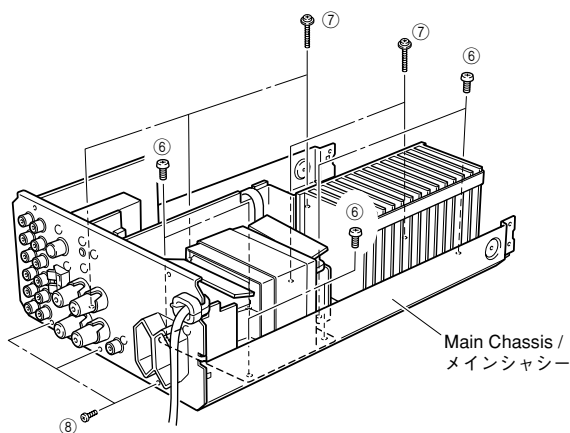


Fig. 3

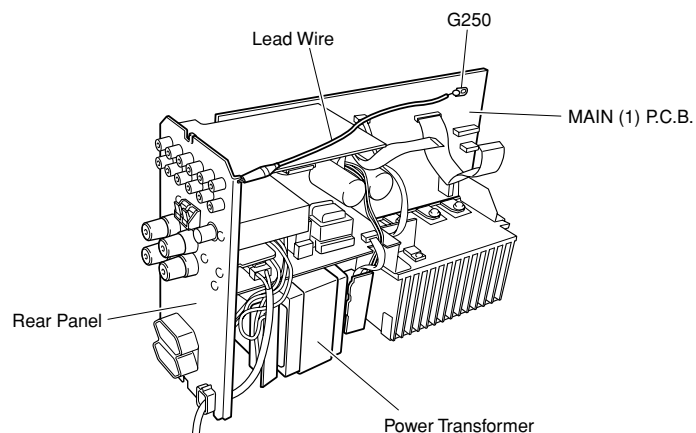


Fig. 4

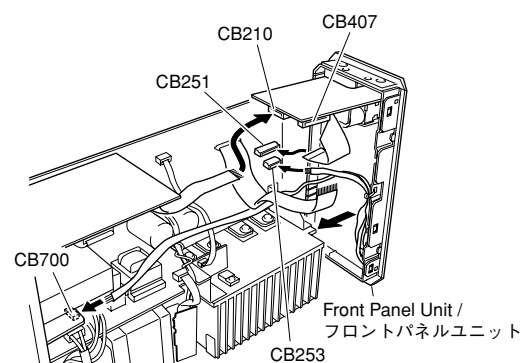
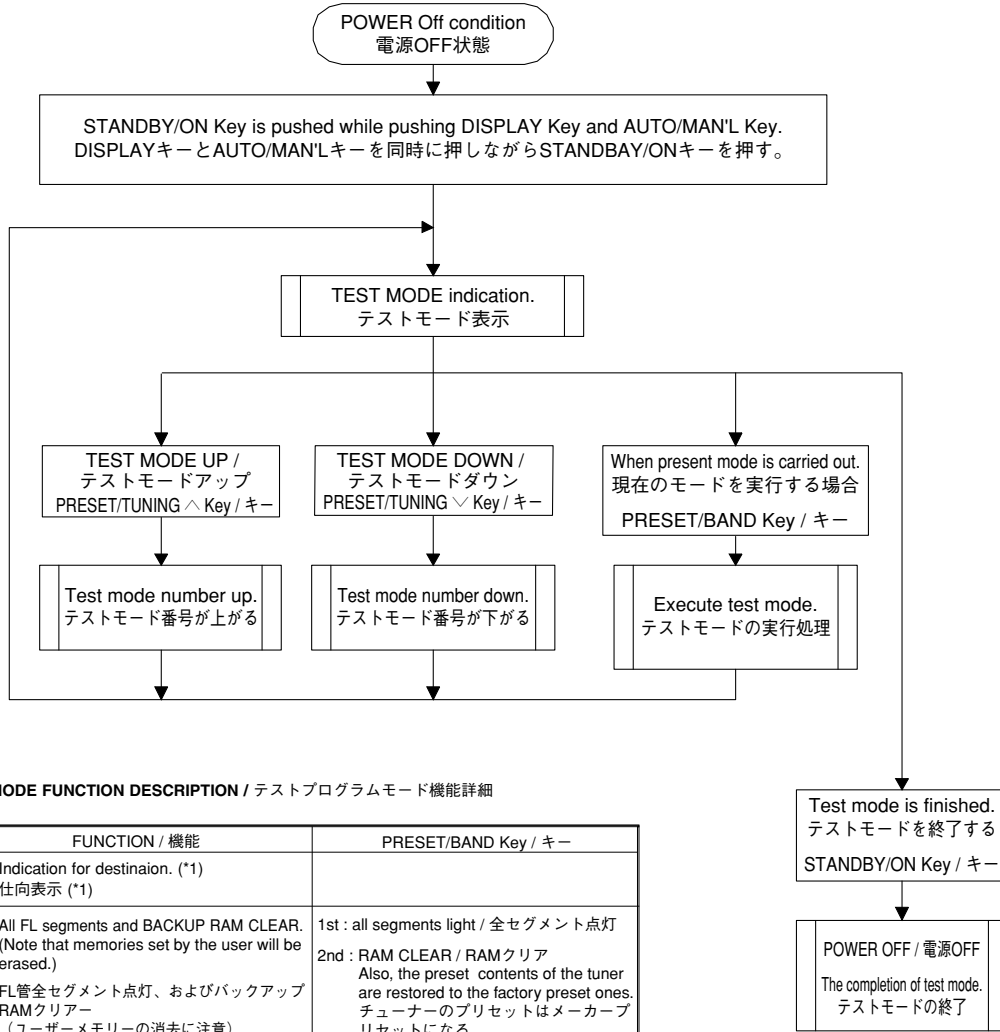


Fig. 5

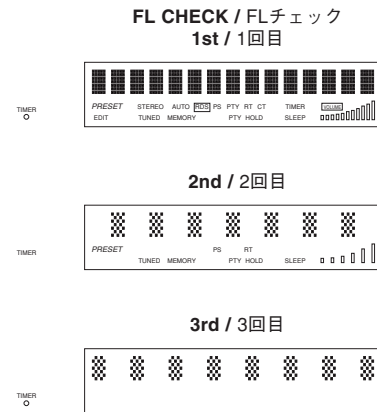
TEST MODE / テストモード

RX-E600/NX-E400



TEST PROGRAM MODE FUNCTION DESCRIPTION / テストプログラムモード機能詳細

| DISPLAY / 表示 | FUNCTION / 機能 | PRESET/BAND Key / キー |
|----------------------------|--|--|
| 01 DEST-B, G | Indication for destinaion. (*1) 仕向表示 (*1) | |
| 02 FL+CLEAR | All FL segments and BACKUP RAM CLEAR. (Note that memories set by the user will be erased.) FL管全セグメント点灯、およびバックアップRAMクリアー (ユーザーメモリーの消去に注意) | 1st : all segments light / 全セグメント点灯 2nd : RAM CLEAR / RAMクリア Also, the preset contents of the tuner are restored to the factory preset ones. チューナーのプリセットはメーカープリセットになる |
| 03 FL CHECK | All FL segments and circuit board short circuit inspection. FL管全セグメント点灯、および基板パターンブリッジチェック | 1st : all segments light / 全セグメント点灯 2nd : Even-numbered segments and even numbered digits are turned on. 偶数セグメント、および偶数ディジット点灯 3rd : Odd -numbered segments and odd-numbered digits are turned on. 奇数セグメント、および奇数ディジット点灯 |
| 04 Ver-1.00 04.04.07.06 | Version information of the microcomputer software. (*2) The date of the microcomputer software. (*2) マイコンソフトのバージョン情報 (*2) マイコンソフトの日付 (*2) | It is changed to the date indication. 日付表示へ切り換え It is changed to version indication. バージョン表示へ切り換え |
| 05 SUM[Caa2] | The calculation of SUM is done and indicated after that. (*2) チェックサム計算表示 (*2) | Re-calculation 再計算 |



(*1)

| DESTINATION | R, L (AM9k/FM50k) | R, L (AM10k/FM100k) | K, A | B, G, E | U, C | J |
|-------------|-------------------|---------------------|------|---------|------|---|
| Display | R9k | R10k | A | B, G | U, C | J |

(*2) Contents of indication change by the microcomputer software.
表示内容はマイコンソフトにより変化します。

● FACTORY PRESET

| BAND | MARKETS | PRESET No. | | | | | | | |
|----------|------------------------------|------------|-------|-------|--------|--------|-------|--------|--------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| FM (MHz) | U, C, R, L (100k/10k) | 98.1 | 95.1 | 87.5 | 101.5 | 107.9 | 88.1 | 106.1 | 107.9 |
| | R, K, A, B, G, E, L (50k/9k) | 98.10 | 95.10 | 87.50 | 101.50 | 108.00 | 88.10 | 106.10 | 107.90 |
| AM (kHz) | U, C, R, L (100k/10k) | 630 | 1080 | 1400 | 530 | 1710 | 900 | 1350 | 1440 |
| | R, K, A, B, G, E, L (50k/9k) | 630 | 1080 | 1404 | 531 | 1611 | 900 | 1350 | 1440 |

NOTE 1) PRESET PAGE A : FM B : AM C : FM D : AM E : FM

● メーカープリセット

| バンド | プリセット番号 | | | | | | | |
|----------|---------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| FM (MHz) | 83.0 | 82.1 | 76.0 | 84.0 | 86.0 | 90.0 | 78.0 | 88.0 |
| AM (kHz) | 630 | 1080 | 1404 | 531 | 1611 | 900 | 1350 | 1440 |

注1) グループ別バンド..... A : FM、B : AM、C : FM、D : AM、E : FM

CAUTION : When executing Test mode No. 2 RAM CLEAR, be sure to write down the preset memory contents of the tuner, using a table like the one shown below. Execution of RAM CLEAR will set the memory contents of the tuner back to the factory preset state which means that all the memories preset by the user will be erased.

注意 : テストモード番号02のRAM CLEARを実行するときは、チューナーのプリセットメモリー内容を、下表のようなものにメモしておいてください。(RAM CLEARを実行すると、チューナーのメモリー内容がメーカープリセット状態になるため、ユーザーのプリセットメモリーがすべて消去されます。)テストモード終了後、再びチューナーにして、メモを参照しユーザーメモリーを行ってください。

| Preset group | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|--------------|----|----|----|----|----|----|----|----|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |

■ AMP ADJUSTMENTS / アンプ調整

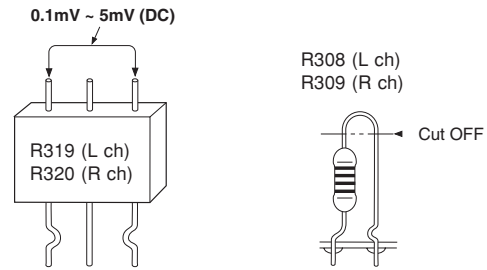
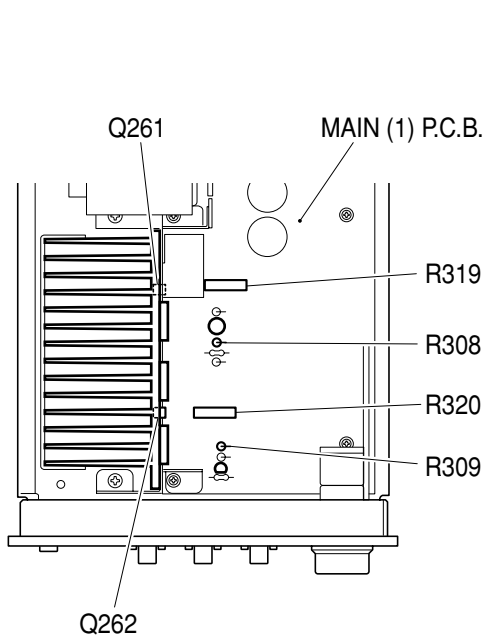
● Confirmation of Idling Current / アイドリング電流の確認

- 1) No signal applied. / 無信号
- 2) Non-loaded condition. / 無負荷
- 3) Aging is not necessary. / エージングは不要

| Item/項目 | Test Point/テストポイント | Rating/規格 (DC) | Note/対策 |
|---------|-----------------------------------|----------------|--|
| MAIN L | R319 (Between terminal / 両端子間) | 0.1mV—5mV | If the measured voltage exceeds 5mV, cut the lead wire of R308(L ch) or R309(R ch) and then check again if each measured value satisfies the rating. 電圧が5mVを越えている場合はR308(L ch)または、R309(R ch)のリード線をカットし、規格を満足するか再確認する。 |
| MAIN R | R320 (Between terminal / 両端子間) | | |

* Confirm that the idling current is 0.25mV — 15mV after 60 minutes.

* 60分後には、アイドル電流が0.25mV~15mVであることを確認する。

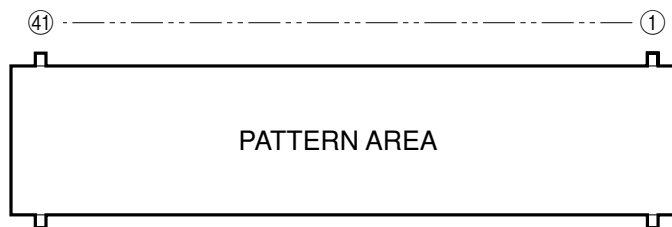


Note)

- If the idling current exceeds 5mV after a power amplifier repair, check for a defective component before cutting the resistor.
- If R308(L ch) or R309(R ch) have already been cut off and idling current does not flow, reconnect R308(1k-ohms) or R309(1k-ohms).
- Q261 and Q262 are transistors for temperature correction. Apply silicone grease to the contact surface with the heat sink.
- パワーアンプ修理後に5mVを超えている場合は、抵抗をカットする前に故障箇所を調べてください。
- R308(L ch)またはR309(R ch)がすでにカットされていて、アイドル電流が流れない場合は、R308(1k-ohms)またはR309(1k-ohms)を取り付けること。
- Q261およびQ262は温度補正用のトランジスタです。放熱板との接触面にはシリコングリスを塗布してください。

■ DISPLAY DATA

● V700 : 16-BT-67GN (V3579300)



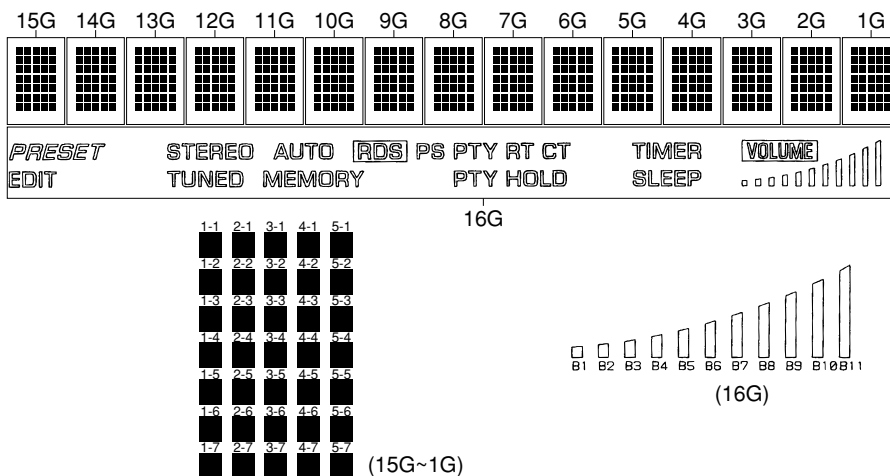
● PIN CONNECTION

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| Pin No. | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| Connection | F2 | F2 | NP | NP | 1G | 1G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 | P13 | P14 | P15 | P16 | P17 | P18 | P19 | P20 | P21 | P22 | NP | NP | F1 | F1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|----|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| Pin No. | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 |
| Connection | F2 | F2 | NP | NP | 12G | 13G | 14G | 15G | 16G | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | NX | P35 | P34 | P33 | P32 | P31 | P30 | P29 | P28 | P27 | P26 | P25 | P24 | P23 | NP | NP | F1 | F1 | |

Note : 1) F1, F2 Filament 2) NP No pin 3) NX No extened Pin 4) 1G ~ 16G Grid

● GRID ASSIGNMENT



● ANODE CONNECTION

| | 16G | 15G~1G |
|-----|----------|--------|
| P1 | PRESET | 1-1 |
| P2 | STEREO | 2-1 |
| P3 | TUNED | 3-1 |
| P4 | AUTO | 4-1 |
| P5 | MEMORY | 5-1 |
| P6 | RDS | 1-2 |
| P7 | PS | 2-2 |
| P8 | PTY | 3-2 |
| P9 | RT | 4-2 |
| P10 | CT | 5-2 |
| P11 | PTY HOLD | 1-3 |
| P12 | TIMER | 2-3 |

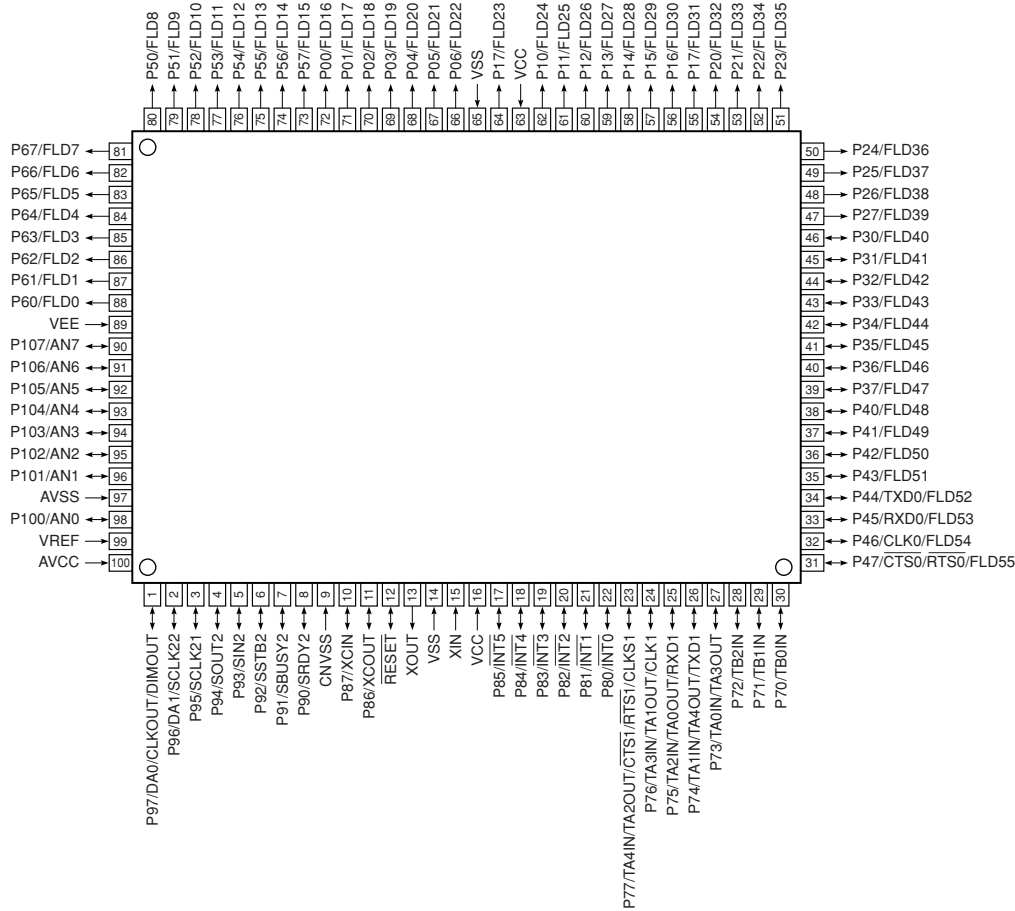
| | 16G | 15G~1G |
|-----|-------|--------|
| P13 | SLEEP | 3-3 |
| P14 | EDIT | 4-3 |
| P15 | - | 5-3 |
| P16 | - | 1-4 |
| P17 | B1 | 2-4 |
| P18 | B2 | 3-4 |
| P19 | B3 | 4-4 |
| P20 | B4 | 5-4 |
| P21 | B5 | 1-5 |
| P22 | B6 | 2-5 |
| P23 | B7 | 3-5 |
| P24 | B8 | 4-5 |

| | 16G | 15G~1G |
|-----|--------|--------|
| P25 | B9 | 5-5 |
| P26 | B10 | 1-6 |
| P27 | B11 | 2-6 |
| P28 | VOLUME | 3-6 |
| P29 | - | 4-6 |
| P30 | - | 5-6 |
| P31 | - | 1-7 |
| P32 | - | 2-7 |
| P33 | - | 3-7 |
| P34 | - | 4-7 |
| P35 | - | 5-7 |

IC DATA

IC700 : M30218FCFP (16 bit μ-COM)

RX-E600/NX-E400



| No. | PORT | Name | IN/OUT | Function |
|-----|-------|--------|--------|---|
| 1 | P97 | STATUS | OUT | Status data out put Terminal |
| 2 | P96 | RLY PW | OUT | Power supply relay (Power ON) OUT [0:OFF 1:ON] |
| 3 | P95 | VOL DN | OUT | Motor VR DOWN OUT [1:DOWN] |
| 4 | P94 | VOL UP | OUT | Motor VR UP OUT [1:UP] |
| 5 | P93 | ENC B | IN | Rotary encoder-B IN [Pull-up resistor] |
| 6 | P92 | ENC A | IN | Rotary encoder-A IN [Pull-up resistor] |
| 7 | P91 | LED T | OUT | Timer LED OUT [0:OFF 1:ON] |
| 8 | P90 | IR_OUT | OUT | IR data output Terminal |
| 9 | CNVSS | CNVss | - | Connected to VSS(GND) via resistor(5.1kΩ) |
| 10 | P87 | Xin | - | 32.768KHz IN (Feedback resistor included) |
| 11 | P86 | Xout | - | 32.768KHz OUT (Feedback resistor included) |
| 12 | RESET | Reset | - | RESET [0:RESET] |
| 13 | XOUT | 10Xout | - | 10MHz OUT (Feedback resistor included) |
| 14 | VSS | Vss | - | GND |
| 15 | XIN | 10Xin | - | 10MHz IN (Feedback resistor included) |
| 16 | VCC | Vcc | - | Power supply +5V [Backup capacitor required] |
| 17 | P85 | Sys O | OUT | System control OUT |
| 18 | P84 | Sys I | IN | System control IN |
| 19 | P83 | RLY SP | OUT | Speaker relay OUT [0:OFF 1:ON] |
| 20 | P82 | Pro I | IN | Amplifier current detect IN (protection) [1:Abnormality exists] |
| 21 | P81 | Rem | INT-IN | Remote control IN |
| 22 | P80 | PD | INT-IN | Power-down DC detect IN [0:POWER DOWN] |

IC700 : M30218FCFP (16 bit μ -COM)

| No. | PORT | Name | IN/OUT | Function |
|-----|------|--------|--------|--|
| 23 | P77 | CE | OUT | C2B(LC72722/LC78211)CE OUT [1:DATA transmission] |
| 24 | P76 | CLK | S-CLK | LC72722/LC78211 CLK OUT (Serial I/O-1) |
| 25 | P75 | DAT I | S-IN | LC72722 DATA IN (Serial I/O-1) |
| 26 | P74 | DAT O | S-OUT | LC72722/LC78211 DATA OUT (Serial I/O-1) |
| 27 | P73 | Mut A | OUT | AMP MUTE OUT [0:MUTE ON] |
| 28 | P72 | Mut T | OUT | Tuner MUTE OUT (TUNER) [1:MUTE ON] |
| 29 | P71 | Sta | IN | STATION IN (TUNER) [0:Station exists] |
| 30 | P70 | ST/MO | IN | STEREO/MONO IN (TUNER) [0:STEREO] |
| 31 | P47 | F CE | OUT | CE OUT(from built-in flash ROM to Busy OUT/EEPROM) [1:DATA transmission(EEPROM)] |
| 32 | P46 | F CK | S-CLK | CLK OUT(from built-in flash ROM to CLK IN/EEPROM) (Serial I/O-0) |
| 33 | P45 | F RX | S-IN | DATA IN(from DATA IN/EEPROM to built-in flash ROM) (Serial I/O-0) |
| 34 | P44 | F TX | S-OUT | DATA OUT(from built-in flash ROM to DATA OUT/EEPROM) (Serial I/O-0) |
| 35 | P43 | HP | IN | Head phone detect IN [0:SP 1:HP] |
| 36 | P42 | DIG 16 | OUT | DIGIT 16 (16G) [VEE external pull-down] |
| 37 | P41 | DIG 15 | OUT | DIGIT 15 (15G) [VEE external pull-down] |
| 38 | P40 | DIG 14 | OUT | DIGIT 14 (14G) [VEE external pull-down] |
| 39 | P37 | DIG 13 | OUT | DIGIT 13 (13G) [VEE external pull-down] |
| 40 | P36 | DIG 12 | OUT | DIGIT 12 (12G) [VEE external pull-down] |
| 41 | P35 | DIG 11 | OUT | DIGIT 11 (11G) [VEE external pull-down] |
| 42 | P34 | DIG 10 | OUT | DIGIT 10 (10G) [VEE external pull-down] |
| 43 | P33 | DIG 9 | OUT | DIGIT 9 (9G) [VEE external pull-down] |
| 44 | P32 | DIG 8 | OUT | DIGIT 8 (8G) [VEE external pull-down] |
| 45 | P31 | DIG 7 | OUT | DIGIT 7 (7G) [VEE external pull-down] |
| 46 | P30 | DIG 6 | OUT | DIGIT 6 (6G) [VEE external pull-down] |
| 47 | P27 | DIG 5 | OUT | DIGIT 5 (5G) [VEE external pull-down] |
| 48 | P26 | DIG 4 | OUT | DIGIT 4 (4G) [VEE external pull-down] |
| 49 | P25 | DIG 3 | OUT | DIGIT 3 (3G) [VEE external pull-down] |
| 50 | P24 | DIG 2 | OUT | DIGIT 2 (2G) [VEE external pull-down] |
| 51 | P23 | DIG 1 | OUT | DIGIT 1 (1G) [VEE external pull-down] |
| 52 | P22 | SEG 1 | OUT | SEGMENT 1 (P1) [VEE external pull-down] |
| 53 | P21 | SEG 2 | OUT | SEGMENT 2 (P2) [VEE external pull-down] |
| 54 | P20 | SEG 3 | OUT | SEGMENT 3 (P3) [VEE external pull-down] |
| 55 | P17 | SEG 4 | OUT | SEGMENT 4 (P4) (VEE internal pull-down) |
| 56 | P16 | SEG 5 | OUT | SEGMENT 5 (P5) (VEE internal pull-down) |
| 57 | P15 | SEG 6 | OUT | SEGMENT 6 (P6) (VEE internal pull-down) |
| 58 | P14 | SEG 7 | OUT | SEGMENT 7 (P7) (VEE internal pull-down) |
| 59 | P13 | SEG 8 | OUT | SEGMENT 8 (P8) (VEE internal pull-down) |
| 60 | P12 | SEG 9 | OUT | SEGMENT 9 (P9) (VEE internal pull-down) |
| 61 | P11 | SEG 10 | OUT | SEGMENT 10 (P10) (VEE internal pull-down) |
| 62 | P10 | SEG 11 | OUT | SEGMENT 11 (P11) (VEE internal pull-down) |
| 63 | VCC | Vcc | - | Power supply +5V [Back-up capacitor] |
| 64 | P07 | SEG 12 | OUT | SEGMENT 12 (P12) (VEE internal pull-down) |
| 65 | VSS | Vss | - | GND |
| 66 | P06 | SEG 13 | OUT | SEGMENT 13 (P13) (VEE internal pull-down) |
| 67 | P05 | SEG 14 | OUT | SEGMENT 14 (P14) (VEE internal pull-down) |
| 68 | P04 | SEG 15 | OUT | SEGMENT 15 (P15) (VEE internal pull-down) |
| 69 | P03 | SEG 16 | OUT | SEGMENT 16 (P16) (VEE internal pull-down) |
| 70 | P02 | SEG 17 | OUT | SEGMENT 17 (P17) (VEE internal pull-down) |
| 71 | P01 | SEG 18 | OUT | SEGMENT 18 (P18) (VEE internal pull-down) |
| 72 | P00 | SEG 19 | OUT | SEGMENT 19 (P19) (VEE internal pull-down) |
| 73 | P57 | SEG 20 | OUT | SEGMENT 20 (P20) (VEE internal pull-down) |
| 74 | P56 | SEG 21 | OUT | SEGMENT 21 (P21) (VEE internal pull-down) |
| 75 | P55 | SEG 22 | OUT | SEGMENT 22 (P22) (VEE internal pull-down) |
| 76 | P54 | SEG 23 | OUT | SEGMENT 23 (P23) (VEE internal pull-down) |
| 77 | P53 | SEG 24 | OUT | SEGMENT 24 (P24) (VEE internal pull-down) |

IC700 : M30218FCFP (16 bit μ -COM)

| No. | PORT | Name | IN/OUT | Function |
|-----|--------|--------|--------|---|
| 78 | P52 | SEG 25 | OUT | SEGMENT 25 (P25) (VEE internal pull-down) |
| 79 | P51 | SEG 26 | OUT | SEGMENT 26 (P26) (VEE internal pull-down) |
| 80 | P50 | SEG 27 | OUT | SEGMENT 27 (P27) (VEE internal pull-down) |
| 81 | P67 | SEG 28 | OUT | SEGMENT 28 (P28) (VEE internal pull-down) |
| 82 | P66 | SEG 29 | OUT | SEGMENT 29 (P29) (VEE internal pull-down) |
| 83 | P65 | SEG 30 | OUT | SEGMENT 30 (P30) (VEE internal pull-down) |
| 84 | P64 | SEG 31 | OUT | SEGMENT 31 (P31) (VEE internal pull-down) |
| 85 | P63 | SEG 32 | OUT | SEGMENT 32 (P32) (VEE internal pull-down) |
| 86 | P62 | SEG 33 | OUT | SEGMENT 32 (P33) (VEE internal pull-down) |
| 87 | P61 | SEG 34 | OUT | SEGMENT 34 (P34) (VEE internal pull-down) |
| 88 | P60 | SEG 35 | OUT | SEGMENT 35 (P35) (VEE internal pull-down) |
| 89 | VEE | - VP | - | P0,P1,P5,P6 pull-down resistor voltage input [-29V] |
| 90 | P107 | Audio | A-D IN | DVD select input |
| 91 | P106 | TH | A-D IN | Heat sinking plate temperature detect IN [0 — VREF] |
| 92 | P105 | Pro PS | A-D IN | Power voltage detect IN (protection) [0 — VREF] |
| 93 | DVD_PS | Fan fe | A-D IN | DVD select input |
| 94 | P103 | Des | A-D IN | Destination select input (TUNER) [Pull-up at 10k-ohms → VREF] |
| 95 | P102 | KEY 2 | A-D IN | KEY 2 input [Pull-up at 10k-ohms → VREF] |
| 96 | P101 | KEY 1 | A-D IN | KEY 1 input [Pull-up at 10k-ohms → VREF] |
| 97 | AVSS | AVss | - | Connected to VSS(GND) |
| 98 | P100 | KEY 0 | A-D IN | KEY 0 input [Pull-up at 10k-ohms → VREF] |
| 99 | VREF | Vref | - | A-D,D-A reference voltage input [— VCC] |
| 100 | AVCC | AVcc | - | Connected to VCC terminal (+5V) |

● KEY INPUT (A-D) PULL UP RESISTOR 33k-ohms

| ohm | 0 | +6.8k | +5.6k |
|---------------|-------------|------------------------|-------------------------|
| V | 0 - 0.556 | - 1.111 | - 1.667 |
| KEY 0 (98pin) | POWER | PRESET/TUNING ^ MIN | PRESET/TUNING v HOUR |
| KEY 1 (96pin) | PRESET/BAND | AUTO/MAN'L TIMER | - |
| KEY 2 (95pin) | DISPLAY | MEMORY TIME ADJ | - |

● TUNER MARKET SELECT IN (94 pin, A-D) PULL UP RESISTOR 10k-ohms

| ohm | 0 | 2k | 3.9k | 6.2k | 10k | 16k |
|--------|---------------------------|-----------------------------|-------------|----------------|-------------|---------|
| V | 0 - 0.556 | - 1.111 | - 1.667 | - 2.222 | - 2.778 | - 3.333 |
| Market | R, L models (50k / 9k) | R, L models (100k / 10k) | K, A models | B, G, E models | U, C models | J model |

1 ■ BLOCK DIAGRAM

- MAIN: See page 21 → SCHEMATIC DIAGRM
- OPERATION: See page 22 → SCHEMATIC DIAGRM

2

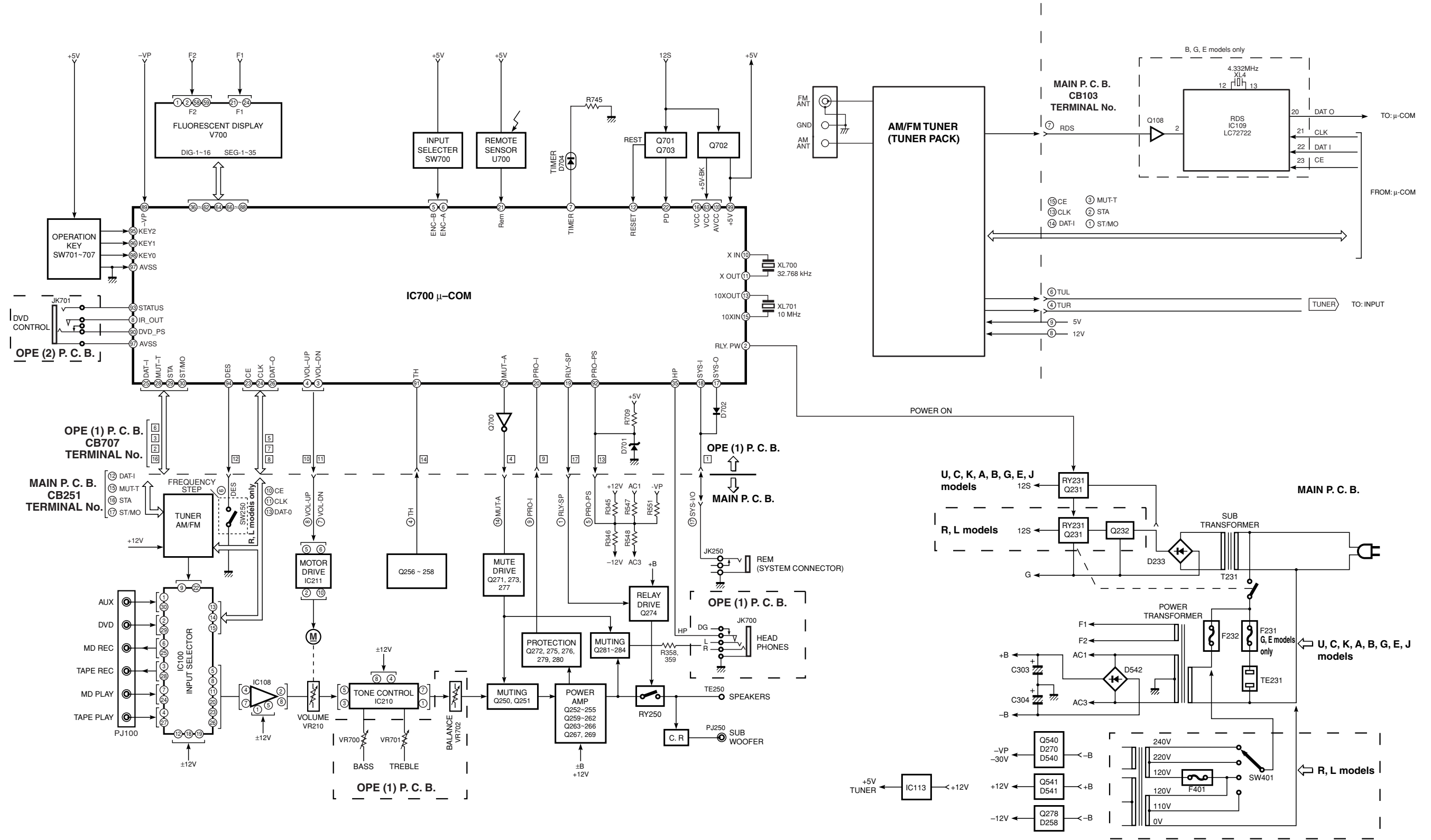
3

4

5

6

7



PRINTED CIRCUIT BOARD (Foil side)

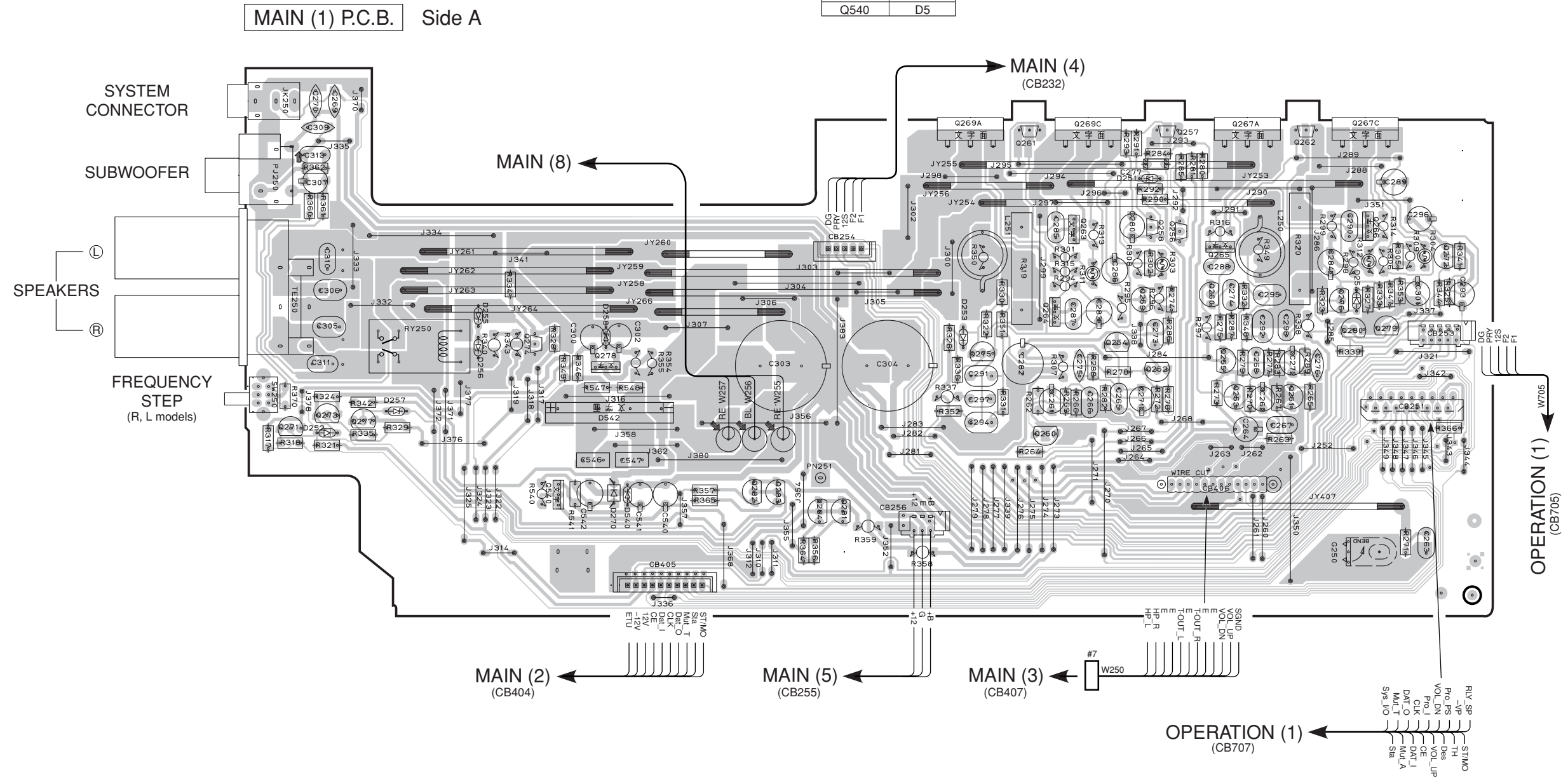
CIRCUIT CHANGES BY MARKET.

| | U, C | R | K | A | B | G, E | L | J |
|---------------------|------|---|---|---|---|------|---|---|
| C305, 306, 310, 311 | X | X | O | O | O | O | X | X |
| SW250 | X | O | X | X | X | X | O | X |

O : USED
X : NOT USED

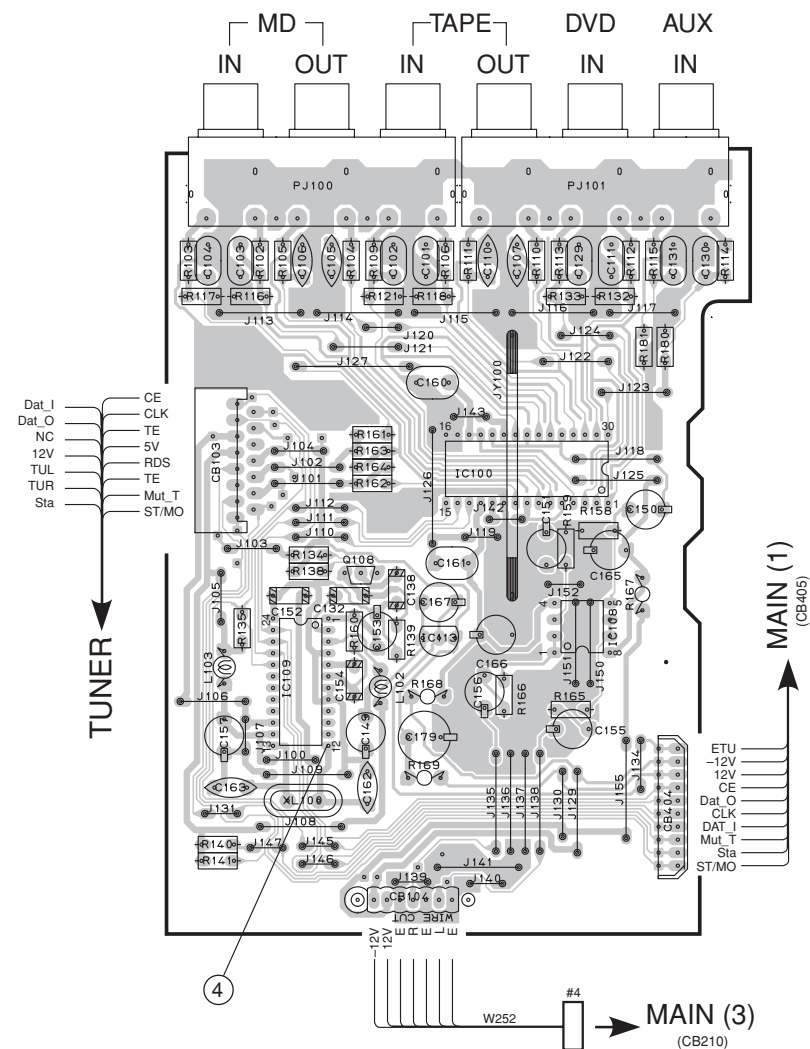
Semiconductor Location

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|
| D251 | H4 | Q250 | G5 | Q267A | H3 |
| D252 | C5 | Q251 | H5 | Q267C | I3 |
| D253 | G4 | Q252 | H5 | Q269A | G3 |
| D254 | I4 | Q253 | H5 | Q269C | G3 |
| D255 | D4 | Q254 | G4 | Q271 | C5 |
| D256 | D4 | Q255 | H5 | Q272 | I4 |
| D257 | D5 | Q256 | H4 | Q273 | C5 |
| D258 | E4 | Q257 | H3 | Q274 | D4 |
| D270 | E5 | Q258 | H4 | Q275 | G4 |
| D540 | E5 | Q259 | H4 | Q276 | I4 |
| D542 | E5 | Q260 | H4 | Q277 | C5 |
| | | Q261 | G3 | Q278 | E5 |
| | | Q262 | H3 | Q279 | I4 |
| | | Q263 | G4 | Q280 | I4 |
| | | Q264 | G4 | Q281 | F5 |
| | | Q265 | H4 | Q282 | F5 |
| | | Q266 | I4 | Q283 | F5 |
| | | | | Q284 | F5 |
| | | | | Q540 | D5 |

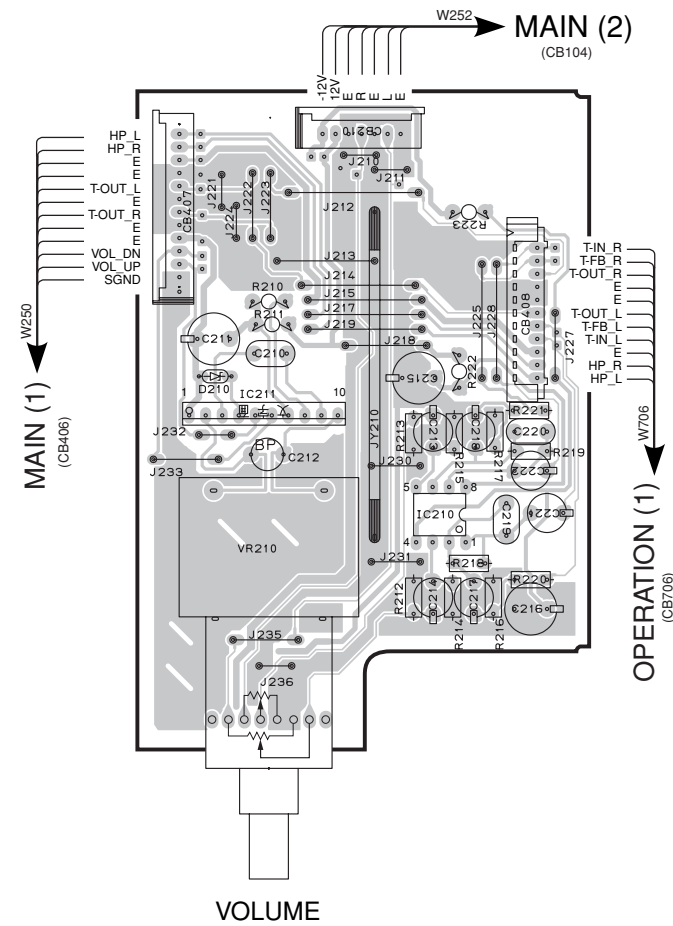


1 ■ PRINTED CIRCUIT BOARD (Foil side)

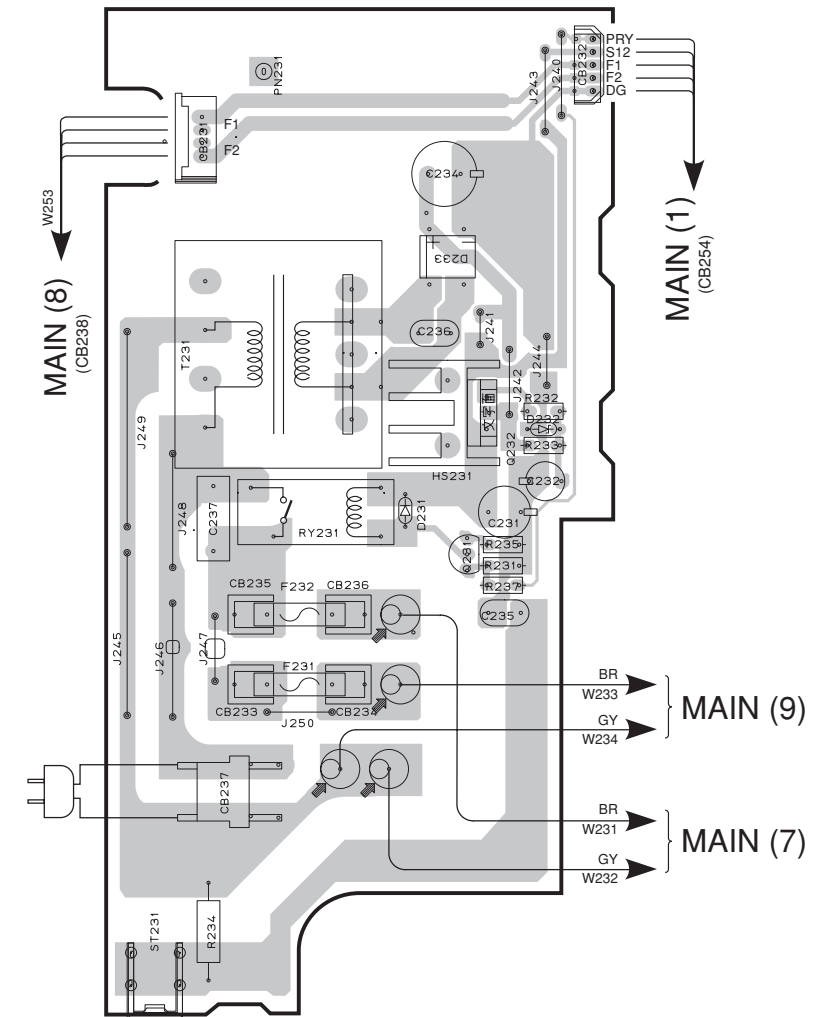
MAIN (2) P.C.B. Side A



MAIN (3) P.C.B. Side A

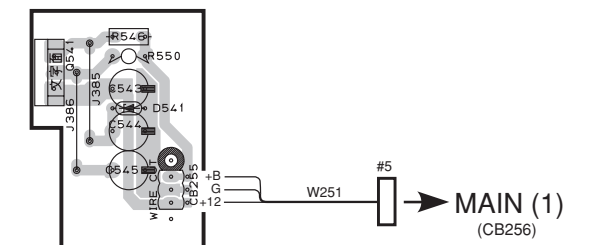


MAIN (4) P.C.B. Side A



MAIN (5) P.C.B. Side A

R, L models



6 CIRCUIT CHANGES BY MARKET.

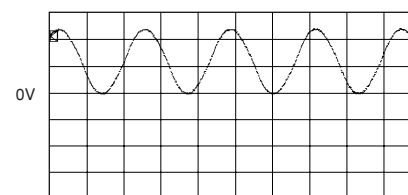
| | U | C | R | K | A | B | G | E | L | J |
|--|---|---|---|---|---|---|---|---|---|---|
| CB233, 234 | X | X | X | X | X | X | O | X | X | X |
| C132, 138, 149, 152, 153, 154, 157, 162, 163 | X | X | X | X | O | O | O | X | X | X |
| C232 | X | O | X | X | X | X | O | X | X | X |
| D232 | X | O | X | X | X | X | O | X | X | X |
| F231 | X | X | X | X | X | X | O | X | X | X |
| J250 | O | O | O | O | O | X | O | O | O | O |
| IC109 | X | X | X | X | O | O | O | X | X | X |
| Q108 | X | X | X | X | O | O | O | X | X | X |
| Q232 | X | O | X | X | X | X | O | X | X | X |
| XL100 | X | X | X | X | O | O | O | X | X | X |

O : USED
X : NOT USED

● Semiconductor Location

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|
| D210 | E3 | IC100 | C3 | Q108 | B3 |
| D231 | I3 | IC108 | C3 | Q231 | I3 |
| D232 | I3 | IC109 | B4 | Q232 | I3 |
| D233 | I2 | IC113 | C3 | Q541 | H6 |
| D541 | H6 | IC210 | F3 | | |
| | | IC211 | E3 | | |

Point ④ (Pin12 of IC109)
V : 2V/div H : 0.1 μsec/div
DC range 1 : 1 probe

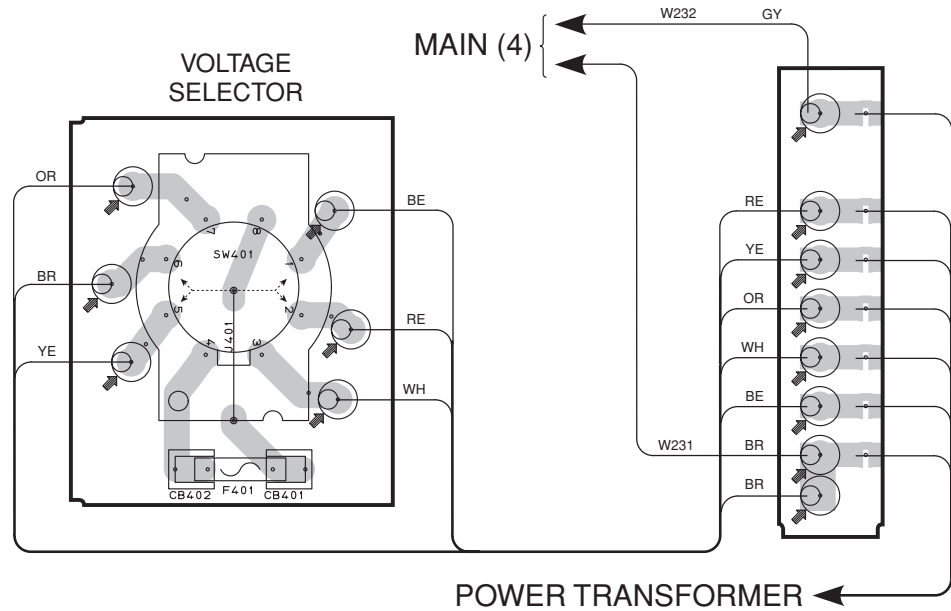


7

■ PRINTED CIRCUIT BOARD (Foil side)

MAIN (6) P.C.B. Side A
R, L models

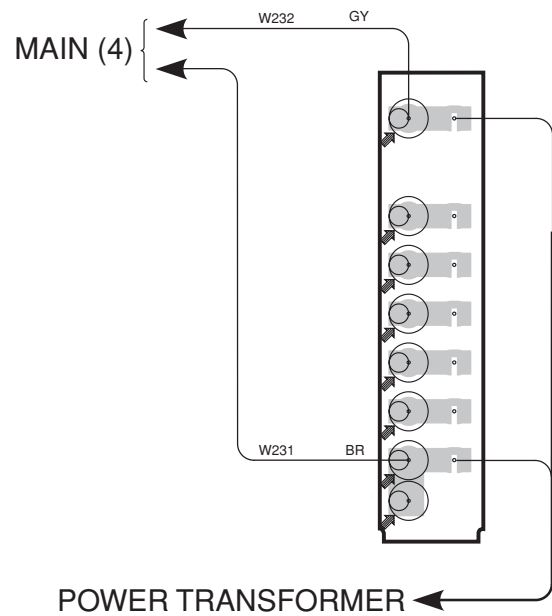
MAIN (7) P.C.B. Side A
R, L models



VOLTAGE SELECTOR

| | |
|------------|-------------|
| 230 - 240V | 1 - 2/5 - 6 |
| 220V | 2 - 3/6 - 7 |
| 110V | 3 - 4/7 - 8 |
| 120V | 4 - 5/8 - 1 |

MAIN (7) P.C.B. Side A
U, C, K, A, B, G, E, J models

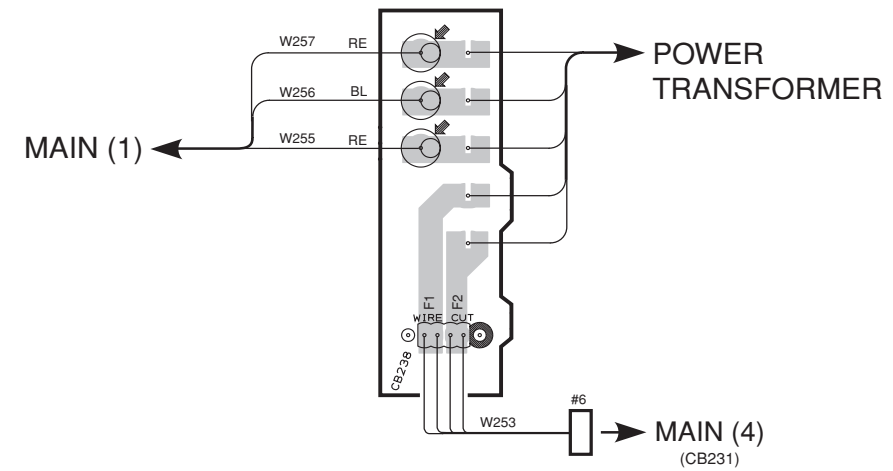


CIRCUIT CHANGES BY MARKET.

| | U, C | R | K | A | B | G, E | L | J |
|------------|------|---|---|---|---|------|---|---|
| CB401, 402 | X | O | X | X | X | X | O | X |
| F401 | X | O | X | X | X | X | O | X |
| SW401 | X | O | X | X | X | X | O | X |
| TE231 | O | O | X | O | O | O | O | O |

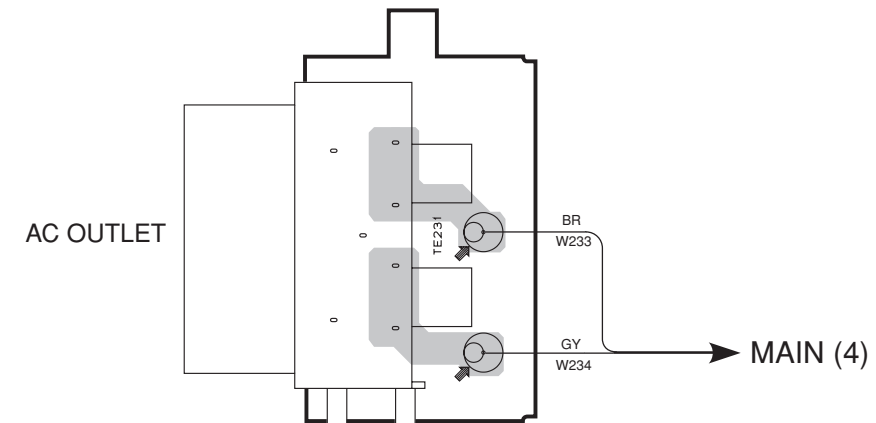
O : USED
X : NOT USED

MAIN (8) P.C.B. Side A



MAIN (9) P.C.B. Side A

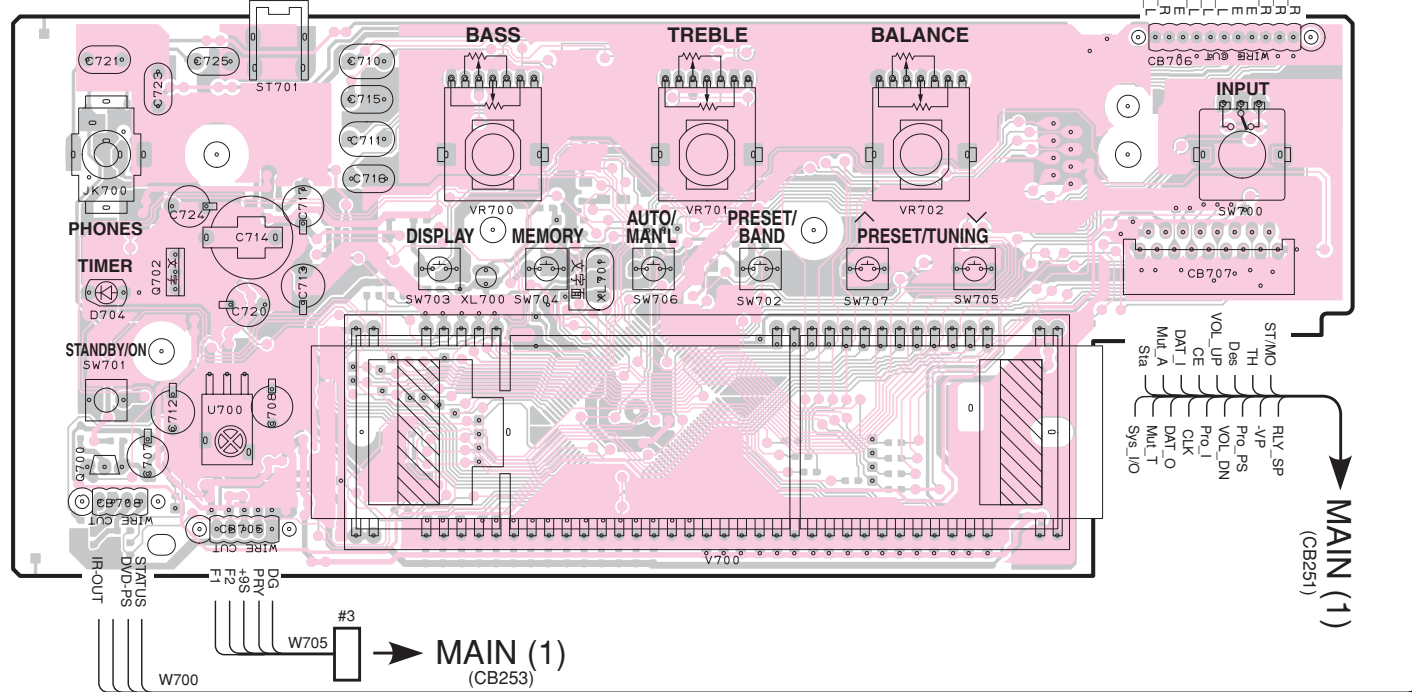
U, C, R, A, B, G, E, L, J models



1 ■ PRINTED CIRCUIT BOARD (Foil side)

OPERATION (1) P.C.B.

Side A

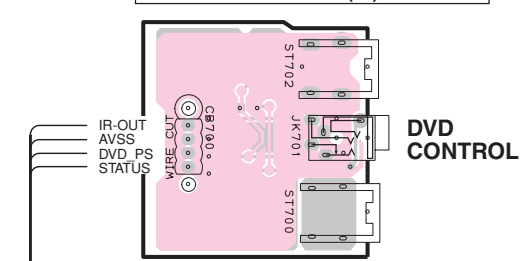


● Semiconductor Location

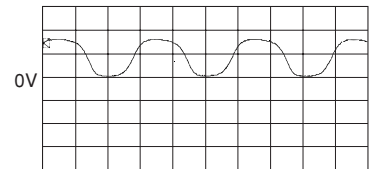
| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|
| D701 | D6 | IC700 | D6 | Q700 | B3 |
| D702 | D6 | | | Q701 | C6 |
| D703 | D5 | | | Q702 | C2 |
| D704 | B3 | | | Q703 | C5 |
| D705 | C6 | | | | |
| D706 | C6 | | | | |
| D707 | C6 | | | | |
| D708 | C6 | | | | |
| D709 | C5 | | | | |
| D710 | C6 | | | | |
| D711 | C6 | | | | |

OPERATION (2) P.C.B.

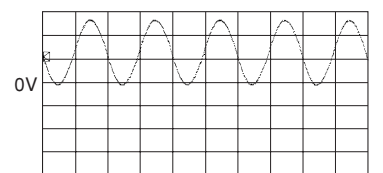
Side A



Point ① (Pin 11 of IC700)
 V : 2V/div, H : 10μsec/div
 DC, 1 : 1 probe



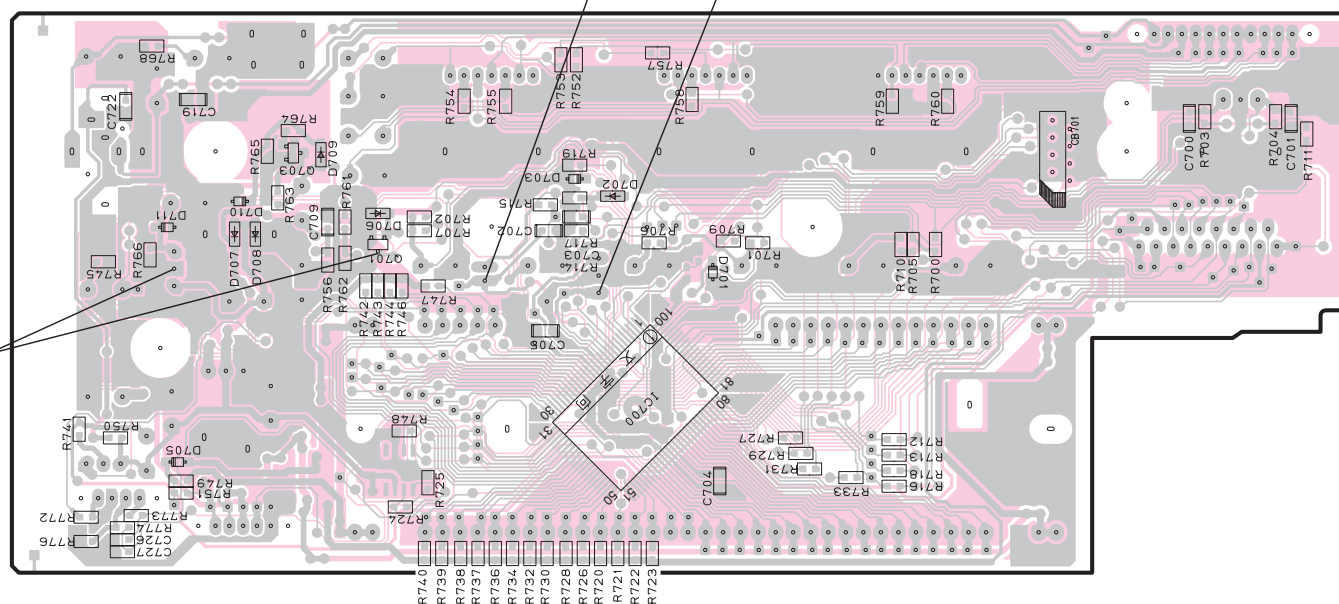
Point ② (Pin 13 of IC700)
 V : 2V/div, H : 50nsec/div
 DC, 1 : 1 probe



OPERATION (1) P.C.B.

Side B

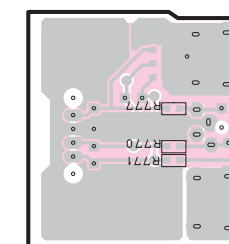
(Lead Free Solder Used)



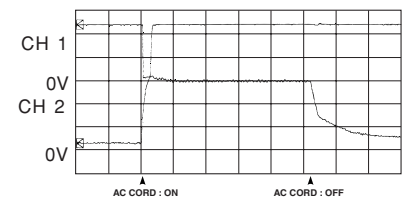
OPERATION (2) P.C.B.

Side B

(Lead Free Solder Used)

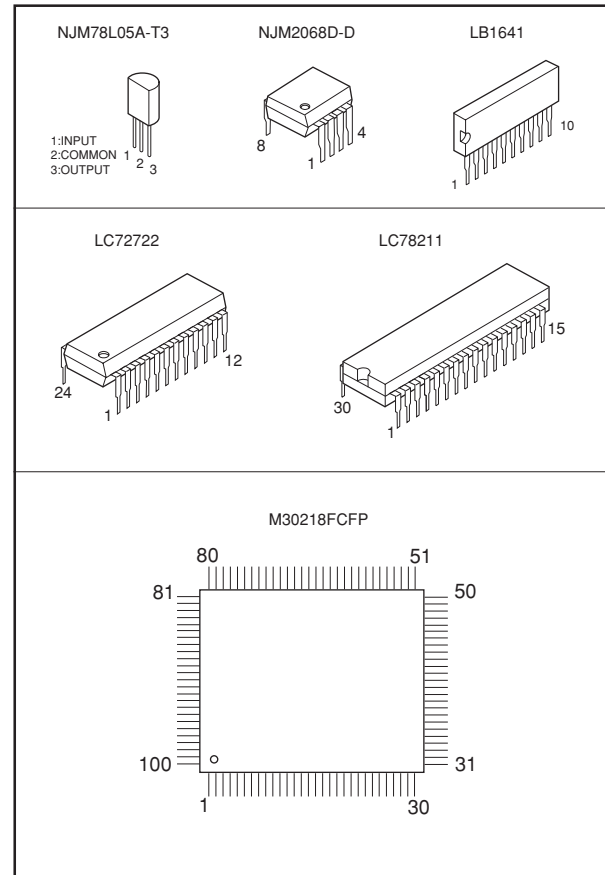


Point ③
 CH 1 : Collector of Q701
 CH 2 : Collector of Q702
 V : 2V/div (CH 1)
 V : 5V/div (CH 2)
 DC, 1 : 1 probe, H : 0.5sec/div

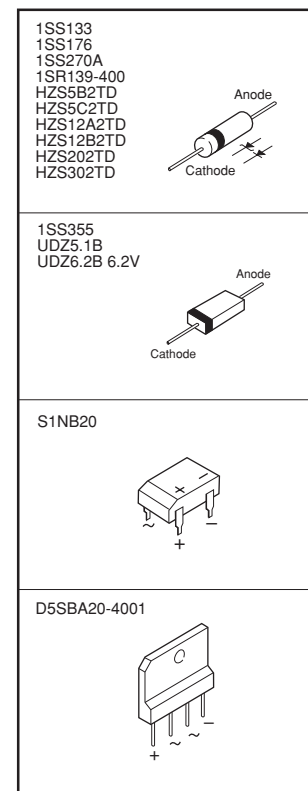


■ PIN CONNECTION DIAGRAM

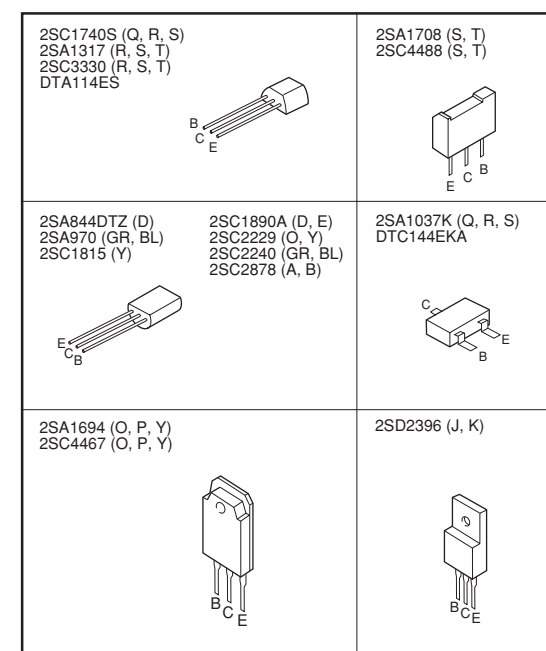
● ICs



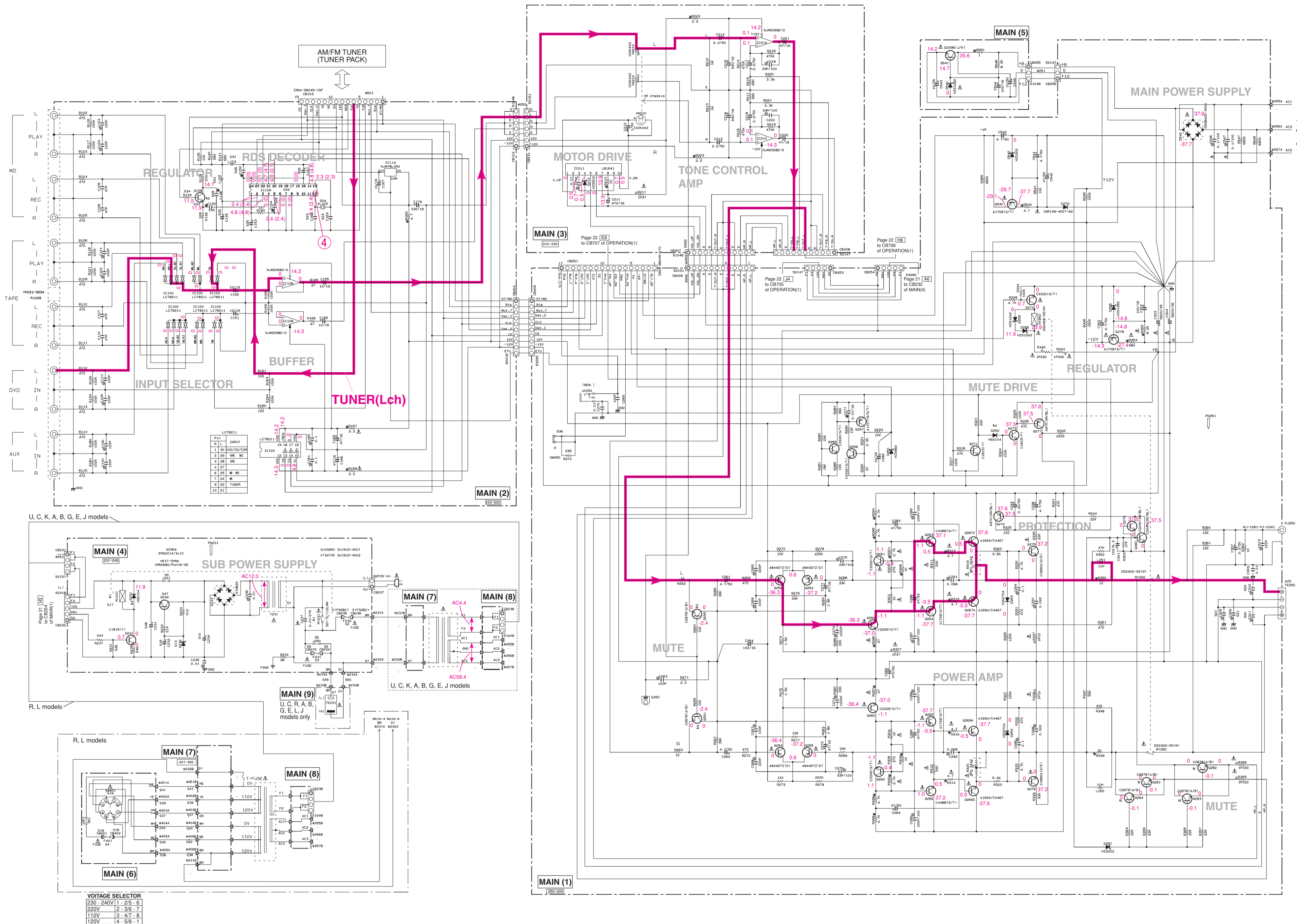
● Diodes



● Transistors



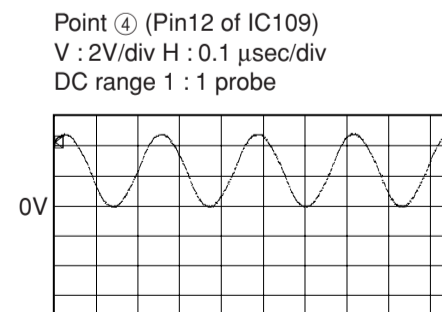
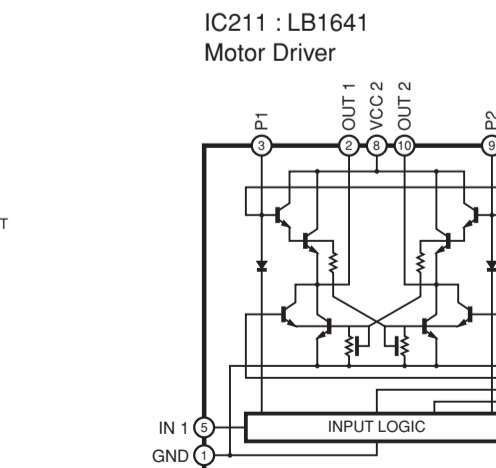
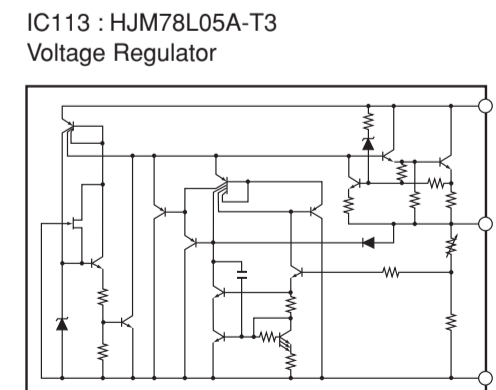
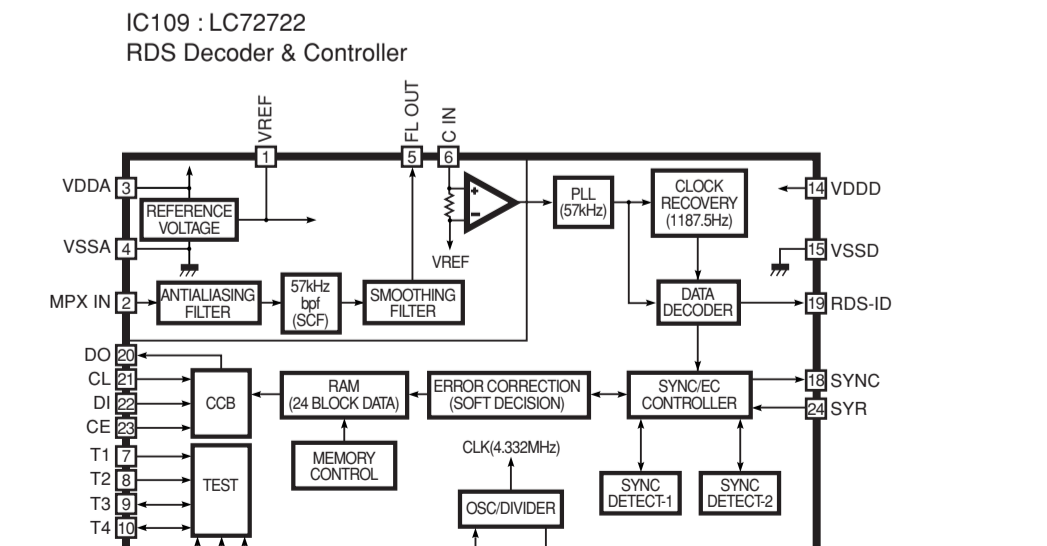
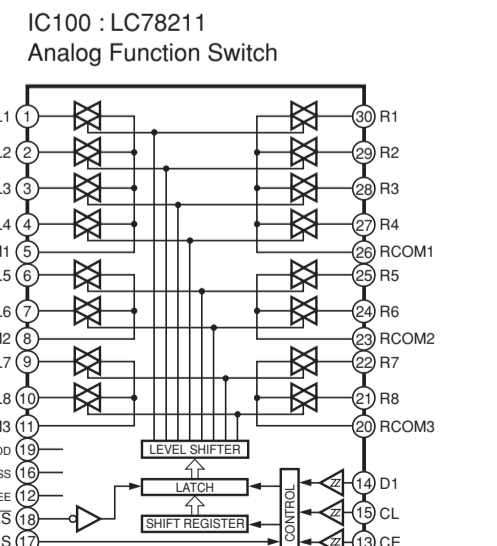
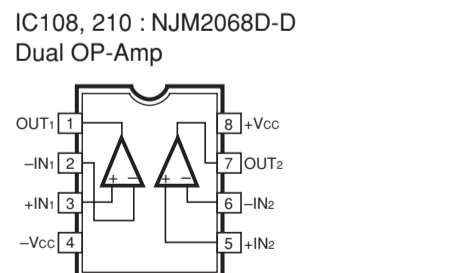
SCHEMATIC DIAGRAM (MAIN)



| REMARKS | PARTS NAME | REMARKS | PARTS NAME |
|---------|-------------------------------------|---------|----------------------------------|
| ① | ELECTROLYTIC CAPACITOR | ① | CARBON FILM RESISTOR (P=10) |
| ② | TANTALUM CAPACITOR | ② | METAL FILM RESISTOR |
| ③ | CERAMIC CAPACITOR | ③ | FLUX POWDER CARBON FILM RESISTOR |
| ④ | DIAPHRAGM TUBULAR CAPACITOR | ④ | METAL PLATE RESISTOR |
| ⑤ | POLYESTER FILM CAPACITOR | ⑤ | POLYPROPYLENE FILM CAPACITOR |
| ⑥ | POLYETHYLENE FILM CAPACITOR | ⑥ | CERAMIC MOLDED RESISTOR |
| ⑦ | POLYPROPYLENE FILM CAPACITOR | ⑦ | DRIFT VARIABLE RESISTOR |
| ⑧ | SEMICONDUCTIVE CERAMIC CAPACITOR | ⑧ | CHIP RESISTOR |
| ⑨ | POLYETHYLENE SULFIDE FILM CAPACITOR | | |

| NO. | J | U.C | B | L | A | R | S.E | K |
|-----|-------------|-----|---|---|---|---|-----|---|
| 11 | T231 | X | X | X | X | X | X | X |
| 12 | F232 | X | X | X | X | X | X | X |
| 13 | F231 | X | X | X | X | X | X | X |
| 14 | F401 | X | X | X | X | X | X | X |
| 15 | C233 & E234 | X | X | X | X | X | X | X |
| 16 | J250 | X | X | X | X | X | X | X |
| 17 | T2231 | X | X | X | X | X | X | X |
| 18 | R234 | X | X | X | X | X | X | X |
| 19 | J241 | X | X | X | X | X | X | X |
| 20 | C234 | X | X | X | X | X | X | X |
| 21 | R233 | X | X | X | X | X | X | X |
| 22 | C232 | X | X | X | X | X | X | X |
| 23 | R232 | X | X | X | X | X | X | X |
| 24 | R232 | X | X | X | X | X | X | X |
| 25 | C232 | X | X | X | X | X | X | X |
| 26 | R232 | X | X | X | X | X | X | X |
| 27 | R232 | X | X | X | X | X | X | X |
| 28 | R232 | X | X | X | X | X | X | X |
| 29 | R232 | X | X | X | X | X | X | X |
| 30 | R232 | X | X | X | X | X | X | X |
| 31 | R232 | X | X | X | X | X | X | X |
| 32 | R232 | X | X | X | X | X | X | X |
| 33 | R232 | X | X | X | X | X | X | X |
| 34 | R232 | X | X | X | X | X | X | X |
| 35 | R232 | X | X | X | X | X | X | X |
| 36 | R232 | X | X | X | X | X | X | X |
| 37 | R232 | X | X | X | X | X | X | X |
| 38 | R232 | X | X | X | X | X | X | X |
| 39 | R232 | X | X | X | X | X | X | X |
| 40 | R232 | X | X | X | X | X | X | X |
| 41 | R232 | X | X | X | X | X | X | X |
| 42 | R232 | X | X | X | X | X | X | X |
| 43 | R232 | X | X | X | X | X | X | X |
| 44 | R232 | X | X | X | X | X | X | X |
| 45 | R232 | X | X | X | X | X | X | X |
| 46 | R232 | X | X | X | X | X | X | X |
| 47 | R232 | X | X | X | X | X | X | X |
| 48 | R232 | X | X | X | X | X | X | X |
| 49 | R232 | X | X | X | X | X | X | X |
| 50 | R232 | X | X | X | X | X | X | X |
| 51 | R232 | X | X | X | X | X | X | X |
| 52 | R232 | X | X | X | X | X | X | X |
| 53 | R232 | X | X | X | X | X | X | X |
| 54 | R232 | X | X | X | X | X | X | X |
| 55 | R232 | X | X | X | X | X | X | X |
| 56 | R232 | X | X | X | X | X | X | X |
| 57 | R232 | X | X | X | X | X | X | X |
| 58 | R232 | X | X | X | X | X | X | X |
| 59 | R232 | X | X | X | X | X | X | X |
| 60 | R232 | X | X | X | X | X | X | X |
| 61 | R232 | X | X | X | X | X | X | X |
| 62 | R232 | X | X | X | X | X | X | X |
| 63 | R232 | X | X | X | X | X | X | X |
| 64 | R232 | X | X | X | X | X | X | X |
| 65 | R232 | X | X | X | X | X | X | X |
| 66 | R232 | X | X | X | X | X | X | X |
| 67 | R232 | X | X | X | X | X | X | X |
| 68 | R232 | X | X | X | X | X | X | X |
| 69 | R232 | X | X | X | X | X | X | X |
| 70 | R232 | X | X | X | X | X | X | X |
| 71 | R232 | X | X | X | X | X | X | X |
| 72 | R232 | X | X | X | X | X | X | X |
| 73 | R232 | X | X | X | X | X | X | X |
| 74 | R232 | X | X | X | X | X | X | X |
| 75 | R232 | X | X | X | X | X | X | X |
| 76 | R232 | X | X | X | X | X | X | X |
| 77 | R232 | X | X | X | X | X | X | X |
| 78 | R232 | X | X | X | X | X | X | X |
| 79 | R232 | X | X | X | X | X | X | X |
| 80 | R232 | X | X | X | X | X | X | X |
| 81 | R232 | X | X | X | X | X | X | X |
| 82 | R232 | X | X | X | X | X | X | X |
| 83 | R232 | X | X | X | X | X | X | X |
| 84 | R232 | X | X | X | X | X | X | X |
| 85 | R232 | X | X | X | X | X | X | X |
| 86 | R232 | X | X | X | X | X | X | X |
| 87 | R232 | X | X | X | X | X | X | X |
| 88 | R232 | X | X | X | X | X | X | X |
| 89 | R232 | X | X | X | X | X | X | X |
| 90 | R232 | X | X | X | X | X | X | X |
| 91 | R232 | X | X | X | X | X | X | X |
| 92 | R232 | X | X | X | X | X | X | X |
| 93 | R232 | X | X | X | X | X | X | X |
| 94 | R232 | X | X | X | X | X | X | X |
| 95 | R232 | X | X | X | X | X | X | X |
| 96 | R232 | X | X | X | X | X | X | X |
| 97 | R232 | X | X | X | X | X | X | X |
| 98 | R232 | X | X | X | X | X | X | X |
| 99 | R232 | X | X | X | X | X | X | X |
| 100 | R232 | X | X | X | X | X | X | X |

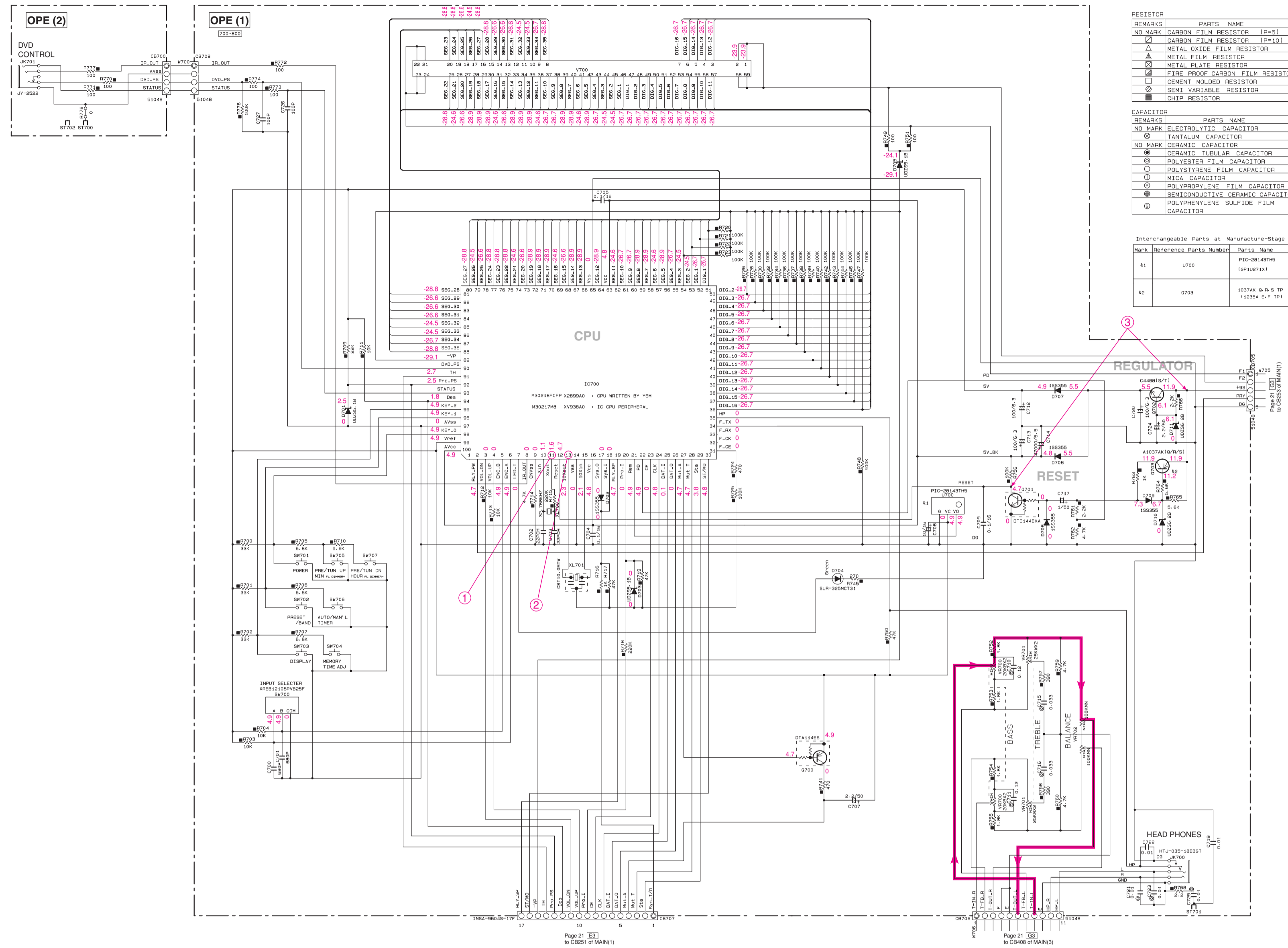
| NO. | REFERENCE PARTS NUMBER | PARTS NAME |
|-----|--------------------------|--|
| 11 | R1231 | IC108-210 : NJM2068D-D Dual OP-Amp |
| 12 | S108 | IC100 : LC78211 Analog Function Switch |
| 13 | S201-S204-S205-S206-S207 | IC109 : LC72722 RDS Decoder & Controller |
| 14 | S201-S204 | IC113 : HJM78L05A-T3 Voltage Regulator |
| 15 | S201 | IC211 : LB1641 Motor Driver |



★ All voltages are measured with a 10M Ω /V DC electronic volt meter.
★ Components having special characteristics are marked !, and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

● 電圧は、内部抵抗10M Ω の電圧計で測定したものです。
● !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。

■ SCHEMATIC DIAGRAM (OPERATION)



RESISTOR

| REMARKS | PARTS NAME |
|---------|---------------------------------|
| NO MARK | CARBON FILM RESISTOR (P=5) |
| □ | CARBON FILM RESISTOR (P=10) |
| △ | METAL OXIDE FILM RESISTOR |
| ○ | METAL FILM RESISTOR |
| ◇ | METAL PLATE RESISTOR |
| ■ | FIRE PROOF CARBON FILM RESISTOR |
| □ | CEMENT MOLDED RESISTOR |
| ◇ | SEMIVARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

CAPACITOR

| REMARKS | PARTS NAME |
|---------|--------------------------------------|
| NO MARK | ELECTROLYTIC CAPACITOR |
| □ | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| ● | CERAMIC TUBULAR CAPACITOR |
| ○ | POLYESTER FILM CAPACITOR |
| ○ | POLYSTYRENE FILM CAPACITOR |
| ○ | MICA CAPACITOR |
| ○ | POLYPHENYLENE FILM CAPACITOR |
| ○ | SEMICONDUCTIVE CERAMIC CAPACITOR |
| ○ | POLYPHENYLENE SULFIDE FILM CAPACITOR |

Interchangeable Parts at Manufacture-Stage

| Mark | Reference Parts Number | Parts Name |
|------|------------------------|--------------------------------|
| K1 | U700 | PIC-2814SHD (SPH27X1) |
| K2 | U703 | 1037AK 6-B-S TP (1035A 6-F TP) |

NOTICE (model)

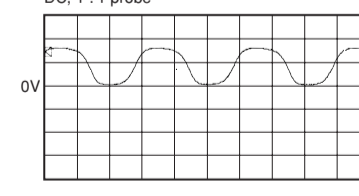
(J)..... JAPAN
 (U)..... U.S.A
 (C)..... CANADA
 (R)..... GENERAL
 (T)..... CHINA
 (K)..... KOREA
 (A)..... AUSTRALIA
 (B)..... BRITISH
 (G)..... EUROPE
 (L)..... SINGAPORE
 (E)..... SOUTH EUROPE

Page 21 [E3] to C801 of MAIN(1)

Page 21 [E3] to C800 of MAIN(2)

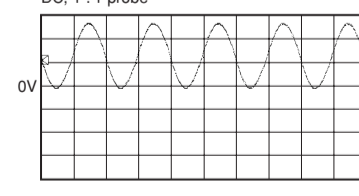
Point ① (Pin 11 of IC700)

V: 2V/div, H: 10μsec/div
 DC, 1:1 probe



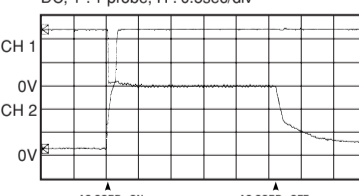
Point ② (Pin 13 of IC700)

V: 2V/div, H: 50μsec/div
 DC, 1:1 probe



Point ③

CH 1: Collector of Q701
 CH 2: Collector of Q702
 V: 2V/div (CH 1)
 V: 5V/div (CH 2)
 DC, 1:1 probe, H: 0.5sec/div



★ All voltages are measured with a 10MΩ/V DC electronic volt meter.
 ★ Components having special characteristics are marked !, and must be replaced with parts having specifications equal to those originally installed.
 ★ Schematic diagram is subject to change without notice.

● 電圧は、内部抵抗10MΩの電圧計で測定したものです。
 ● !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、パナリス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。

PARTS LIST

■ ELECTRICAL PARTS

■ WARNING

● Components having special characteristics are marked \triangle and must be replaced with parts having specifications equal to those originally installed.

● \triangle 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:

| | | | |
|------------|-------------------------------|------------|--------------------------------|
| C.A.EL.CHP | : CHIP ALUMI.ELECTROLYTIC CAP | L.EMIT | : LIGHT EMITTING MODULE |
| C.CE | : CERAMIC CAP | LED.DSPLY | : LED DISPLAY |
| C.CE.ARRAY | : CERAMIC CAP ARRAY | LED.INFRD | : LED,INFRARED |
| C.CE.CHP | : CHIP CERAMIC CAP | MODUL.RF | : MODULATOR,RF |
| C.CE.ML | : MULTILAYER CERAMIC CAP | PHOT.CPL | : PHOTO COUPLER |
| C.CE.M.CHP | : CHIP MULTILAYER CERAMIC CAP | PHOT.INTR | : PHOTO INTERRUPTER |
| C.CE.SAFTY | : RECOGNIZED CERAMIC CAP | PHOT.RFLCT | : PHOTO REFLECTOR |
| C.CE.TUBLR | : CERAMIC TUBULAR CAP | PIN.TEST | : PIN,TEST POINT |
| C.CE.SMI | : SEMI CONDUCTIVE CERAMIC CAP | PLST.RIVET | : PLASTIC RIVET |
| C.EL | : ELECTROLYTIC CAP | R.ARRAY | : RESISTOR ARRAY |
| C.MICA | : MICA CAP | R.CAR. | : CARBON RESISTOR |
| C.ML.FLM | : MULTILAYER FILM CAP | R.CAR.CHP | : CHIP RESISTOR |
| C.MP | : METALLIZED PAPER CAP | R.CAR.FP | : FLAME PROOF CARBON RESISTOR |
| C.MYLAR | : MYLAR FILM CAP | R.FUS | : FUSABLE RESISTOR |
| C.MYLAR.ML | : MULTILAYER MYLAR FILM CAP | R.MTL.CHP | : CHIP METAL FILM RESISTOR |
| C.PAPER | : PAPER CAPACITOR | R.MTL.FLM | : METAL FILM RESISTOR |
| C.PLS | : POLYSTYRENE FILM CAP | R.MTL.OXD | : METAL OXIDE FILM RESISTOR |
| C.POL | : POLYESTER FILM CAP | R.MTL.PLAT | : METAL PLATE RESISTOR |
| C.POLY | : POLYETHYLENE FILM CAP | RSNR.CE | : CERAMIC RESONATOR |
| C.PP | : POLYPROPYLENE FILM CAP | RSNR.CRYS | : CRYSTAL RESONATOR |
| C.TNTL | : TANTALUM CAP | R.TW.CEM | : TWIN CEMENT FIXED RESISTOR |
| C.TNTL.CHP | : CHIP TANTALUM CAP | R.WW | : WIRE WOUND RESISTOR |
| C.TRIM | : TRIMMER CAP | SCR.BND.HD | : BIND HEAD B-TITE SCREW |
| CN | : CONNECTOR | SCR.BW.HD | : BW HEAD TAPPING SCREW |
| CN.BS.PIN | : CONNECTOR,BASE PIN | SCR.CUP | : CUP TITE SCREW |
| CN.CANNON | : CONNECTOR,CANNON | SCR.TERM | : SCREW TERMINAL |
| CN.DIN | : CONNECTOR,DIN | SCR.TR | : SCREW,TRANSISTOR |
| CN.FLAT | : CONNECTOR,FLAT CABLE | SUPRT.PCB | : SUPPORT,P.C.B. |
| CN.POST | : CONNECTOR,BASE POST | SURG.PRTCT | : SURGE PROTECTOR |
| COIL.MX.AM | : COIL,AM MIX | SW.TACT | : TACT SWITCH |
| COIL.AT.FM | : COIL,FM ANTENNA | SW.LEAF | : LEAF SWITCH |
| COIL.DT.FM | : COIL,FM DETECT | SW.LEVER | : LEVER SWITCH |
| COIL.MX.FM | : COIL,FM MIX | SW.MICRO | : MICRO SWITCH |
| COIL.OUTPT | : OUTPUT COIL | SW.PUSH | : PUSH SWITCH |
| DIOD.ARRAY | : DIODE ARRAY | SW.RT.ENC | : ROTARY ENCODER |
| DIODE.BRG | : DIODE BRIDGE | SW.RT.MTR | : ROTARY SWITCH WITH MOTOR |
| DIODE.CHP | : CHIP DIODE | SW.RT | : ROTARY SWITCH |
| DIODE.VAR | : VARACTOR DIODE | SW.SLIDE | : SLIDE SWITCH |
| DIOD.Z.CHP | : CHIP ZENER DIODE | TERM.SP | : SPEAKER TERMINAL |
| DIODE.ZENR | : ZENER DIODE | TERM.WRAP | : WRAPPING TERMINAL |
| DSCR.CE | : CERAMIC DISCRIMINATOR | THRMST.CHP | : CHIP THERMISTOR |
| FER.BEAD | : FERRITE BEADS | TR.CHP | : CHIP TRANSISTOR |
| FER.CORE | : FERRITE CORE | TR.DGT | : DIGITAL TRANSISTOR |
| FET.CHP | : CHIP FET | TR.DGT.CHP | : CHIP DIGITAL TRANSISTOR |
| FL.DSPLY | : FLUORESCENT DISPLAY | TRANS | : TRANSFORMER |
| FLTR.CE | : CERAMIC FILTER | TRANS.PULS | : PULSE TRANSFORMER |
| FLTR.COMB | : COMB FILTER MODULE | TRANS.PWR | : POWER TRANSFORMER ASS'Y |
| FLTR.LC.RF | : LC FILTER,EMI | TUNER.AM | : TUNER PACK,AM |
| GND.MTL | : GROUND PLATE | TUNER.FM | : TUNER PACK,FM |
| GND.TERM | : GROUND TERMINAL | TUNER.PK | : FRONT-ENDTUNER PACK |
| HOLDER.FUS | : FUSE HOLDER | VR | : ROTARY POTENTIOMETER |
| IC.PRTCT | : IC PROTECTOR | VR.MTR | : POTENTIOMETER WITH MOTOR |
| JUMPER.CN | : JUMPER CONNECTOR | VR.SW | : POTENTIOMETER WITH ROTARY SW |
| JUMPER.TST | : JUMPER,TEST POINT | VR.SLIDE | : SLIDE POTENTIOMETER |
| L.DTCT | : LIGHT DETECTING MODULE | VR.TRIM | : TRIMMER POTENTIOMETER |

Note) Those parts marked with “#” are not included in the P.C.B. ass'y.

P.C.B. OPERATION

RX-E600/NX-E400

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank |
|-----------|----------|--------------|-----------------|------------------|---------------|----------------|
| * % | WD860900 | P. C. B. | OPERATION | SI | P C B オペレーション | |
| CB700 | VK026300 | CN. BS. PIN | 4P | | ワイヤートラップ | |
| CB707 | VU281700 | CN | 17P | | F F Cコネクタ | |
| C707 | UM416220 | C. EL | 2. 2uF 50V | | ケミコン | 01 |
| C708 | UM397100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C710 | VE326100 | C. MYLAR. ML | 0. 12uF 50V | | 積層マイラーコン | |
| C711 | VE326100 | C. MYLAR. ML | 0. 12uF 50V | | 積層マイラーコン | |
| C712 | UM388100 | C. EL | 100uF 10V | | ケミコン | 01 |
| C713 | UM388100 | C. EL | 100uF 10V | | ケミコン | 01 |
| C714 | VU545000 | C. EL | 47000uF 5. 5V | | 電気2重層コンデンサ | |
| C715 | UA654330 | C. MYLAR | 0. 033uF 50V | | マイラーコン | 01 |
| C716 | UA654330 | C. MYLAR | 0. 033uF 50V | | マイラーコン | 01 |
| C717 | UM416100 | C. EL | 1uF 50V | | ケミコン | 01 |
| C720 | UM388100 | C. EL | 100uF 10V | | ケミコン | 01 |
| C721 | UA654100 | C. MYLAR | 0. 01uF 50V | | マイラーコン | 01 |
| C723 | UA654100 | C. MYLAR | 0. 01uF 50V | | マイラーコン | 01 |
| C724 | UM416220 | C. EL | 2. 2uF 50V | | ケミコン | 01 |
| C725 | UA654100 | C. MYLAR | 0. 01uF 50V | | マイラーコン | 01 |
| D701 | VU171900 | DIODE. ZENR | UDZ5. 1B 5. 1V | | ツェナーダイオード | 01 |
| D702 | VT332900 | DIODE | 1SS355 | | ダイオード | |
| D703 | VU171900 | DIODE. ZENR | UDZ5. 1B 5. 1V | | ツェナーダイオード | 01 |
| D704 | VR711400 | LED (gr) | SLR-325MC | | L E D | |
| D705 | VU171900 | DIODE. ZENR | UDZ5. 1B 5. 1V | | ツェナーダイオード | 01 |
| D706 | VT332900 | DIODE | 1SS355 | | ダイオード | |
| D707 | VT332900 | DIODE | 1SS355 | | ダイオード | |
| D708 | VT332900 | DIODE | 1SS355 | | ダイオード | |
| D709 | VT332900 | DIODE | 1SS355 | | ダイオード | |
| D710 | VU172100 | DIODE. ZENR | UDZS6. 2B 6. 2V | | ツェナーダイオード | |
| D711 | VU172100 | DIODE. ZENR | UDZS6. 2B 6. 2V | | ツェナーダイオード | |
| * % | IC700 | X2899A00 | IC. CPU | M30218FCFP | written | C P U / 周辺 I C |
| | JK700 | V3589000 | JACK. MNI | HTJ-035-18EBGT | | ミニ ジャック |
| * % | JK701 | WD662100 | JACK. PIN | 4P JY-2522 | | ピンジャック 4 P |
| | Q700 | VD678500 | TR. DGT | DTA114ES | | デジタルトランジスタ |
| | Q701 | VV655700 | TR. DGT | DTC144EKA | | デジタルトランジスタ |
| | Q702 | VP872700 | TR | 2SC4488 S, T | | トランジスタ |
| | Q703 | VV556500 | TR | 2SA1037K Q, R, S | | トランジスタ |
| | ST700 | V4040500 | SCR. TERM | M3 | | スクリュー/ターミナル |
| | ST701 | V4040500 | SCR. TERM | M3 | | スクリュー/ターミナル |
| | ST702 | V4040500 | SCR. TERM | M3 | | スクリュー/ターミナル |
| * % | SW700 | V9291700 | SW. RT. ENC | XREB12105PVB25F | | ロータリーエンコーダ |
| | SW701 | V2014900 | SW. TACT | EVQ21304M | | タクトSW |
| | SW702 | V2014900 | SW. TACT | EVQ21304M | | タクトSW |
| | SW703 | V2014900 | SW. TACT | EVQ21304M | | タクトSW |
| | SW704 | V2014900 | SW. TACT | EVQ21304M | | タクトSW |
| | SW705 | V2014900 | SW. TACT | EVQ21304M | | タクトSW |
| | SW706 | V2014900 | SW. TACT | EVQ21304M | | タクトSW |
| | SW707 | V2014900 | SW. TACT | EVQ21304M | | タクトSW |
| | U700 | V3872300 | L. DTCT | PIC-28143TH5 | | リモコン受光ユニット |
| | V700 | V3579300 | FL. DSPLY | 16-BT-67GN | | 蛍光表示管 |
| | VR700 | V3555600 | VR | B20KΩ | | 二連ロータリーVR |
| | VR701 | V3555700 | VR | W25KΩ | | 二連ロータリーVR |
| | VR702 | V3555800 | VR | MN100KΩ | | 二連ロータリーVR |
| | XL700 | VQ328900 | RSNR. CRYST | 32. 768KHz | | 水晶振動子 |

* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

P.C.B. OPERATION & P.C.B. MAIN

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank |
|---|----------|-------------|-----------------|---------|-------|------------|
| XL701 | V7718300 | RSNR. CE | CSTLS10M0G53-B0 | | | セラミック振動子 |
| | VR519500 | SHEET/FL | | GD | | シート/FL |
| | V3688300 | SHEET/FL | | SI | | シート/FL |
| | V3747400 | SPACER. FL | T4x6x18 | | | スペーサ/FL |
| | V3747500 | SUPRT | | | | サポート/FL |
| <p>% : Note on the OPERATION P.C.B. Of the OPERATION P.C.B. part Nos., only the silver (SI) type part Nos. are included in the table. The only different part between the gold (GD) and silver (SI) type parts is the sheet/FL that is attached to the fluorescent character display tube. When a gold (GD) type OPERATION P.C.B. becomes necessary, order a silver (SI) type OPERATION P.C.B. and a gold (GD) type sheet/FL (VR519500) and replace the sheet/FL of the silver (SI) type OPERATION P.C.B. with the gold (GD) type sheet/FL.</p> <p>% : OPERATION P.C.B. の注意 OPERATION P.C.B.の部品No.はシルバー(SI)用の部品No.のみを記載しています。 シルバー(SI)とゴールド(GD)の違う部品は、蛍光表示管に貼り付けるシート/FLのみです。 ゴールド(GD)用のOPERATION P.C.B.が必要になった場合は、シルバー(SI)用のOPERATION P.C.B.とゴールド(GD)用のシート/FL(VR519500)を取り寄せ、シート/FLを貼り替えて使用してください。</p> | | | | | | |
| | WD861900 | P. C. B. | MAIN | | J | P C B メイン |
| | V9319100 | P. C. B. | MAIN | | UC | P C B メイン |
| | WD892600 | P. C. B. | MAIN | | R | P C B メイン |
| | WD862000 | P. C. B. | MAIN | | K | P C B メイン |
| | V9332000 | P. C. B. | MAIN | | A | P C B メイン |
| | V9332100 | P. C. B. | MAIN | | B | P C B メイン |
| | V9332200 | P. C. B. | MAIN | | GE | P C B メイン |
| | WD862100 | P. C. B. | MAIN | | L | P C B メイン |
| CB103 | VU281500 | CN | 15P SE 9604S | | | F F Cコネクター |
| CB210 | VK026600 | CN. BS. PIN | 7P | | | ワイヤートラップ |
| CB231 | VK026300 | CN. BS. PIN | 4P | | | ワイヤートラップ |
| CB232 | VQ960800 | CN. BS. PIN | 5P | | | ハウジング |
| CB233 | WC050700 | CLIP. FUSE | EYF52BCY | | GE | ヒューズクリップ |
| CB234 | WC050700 | CLIP. FUSE | EYF52BCY | | GE | ヒューズクリップ |
| CB235 | WC050700 | CLIP. FUSE | EYF52BCY | | | ヒューズクリップ |
| CB236 | WC050700 | CLIP. FUSE | EYF52BCY | | | ヒューズクリップ |
| CB237 | VP245600 | CN | 2P | | | ベース付ポスト |
| CB251 | VU271700 | CN | 17P | | | F F Cコネクター |
| CB253 | VK024900 | CN. BS. PIN | 52147 5P TE | | | ワイヤートラップ |
| CB254 | VQ962600 | CN. BS. PIN | 5P | | | ウエハー |
| CB256 | VK024700 | CN. BS. PIN | 3P | | | ワイヤートラップ |
| CB401 | WC050700 | CLIP. FUSE | EYF52BCY | | RL | ヒューズクリップ |
| CB402 | WC050700 | CLIP. FUSE | EYF52BCY | | RL | ヒューズクリップ |
| CB404 | VQ961300 | CN. BS. PIN | 10P | | | ハウジング |
| CB405 | VQ963100 | CN. BS. PIN | 10P | | | ウエハー |
| CB407 | VK027100 | CN. BS. PIN | 12P | | | ワイヤートラップ |
| CB408 | VK025500 | CN. BS. PIN | 11P | | | ワイヤートラップ |
| C101 | UA652100 | C. MYLAR | 100pF 50V | | | マイラーコン |
| C102 | UA652100 | C. MYLAR | 100pF 50V | | | マイラーコン |
| C103 | UA652100 | C. MYLAR | 100pF 50V | | | マイラーコン |
| C104 | UA652100 | C. MYLAR | 100pF 50V | | | マイラーコン |
| C105 | FG651470 | C. CE | 47pF 50V | | | セラコン |
| C106 | FG651470 | C. CE | 47pF 50V | | | セラコン |
| C107 | FG651470 | C. CE | 47pF 50V | | | セラコン |
| C110 | FG651470 | C. CE | 47pF 50V | | | セラコン |
| C111 | UA652100 | C. MYLAR | 100pF 50V | | | マイラーコン |
| C129 | UA652100 | C. MYLAR | 100pF 50V | | | マイラーコン |

* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

RX-E600/NX-E400

P.C.B. MAIN

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank |
|-----------|----------|--------------|--------------|----------|----------|------|
| C130 | UA652100 | C. MYLAR | 100pF 50V | | マイラーコン | 01 |
| C131 | UA652100 | C. MYLAR | 100pF 50V | | マイラーコン | 01 |
| C132 | VG278600 | C. CE. TUBLR | 330pF 50V | BGE | 円筒セラコン | 01 |
| C138 | VJ599100 | C. CE. TUBLR | 0. 1uF 50V | BGE | 円筒セラコン | 01 |
| C149 | UR817470 | C. EL | 47uF 6. 3V | BGE | ケミコン | |
| C150 | VG287200 | C. EL | 10uF 50V | | ケミコン | 01 |
| C151 | VG287200 | C. EL | 10uF 50V | | ケミコン | 01 |
| C152 | VJ599100 | C. CE. TUBLR | 0. 1uF 50V | BGE | 円筒セラコン | 01 |
| C153 | UR817470 | C. EL | 47uF 6. 3V | BGE | ケミコン | |
| C154 | VG278800 | C. CE. TUBLR | 560pF 50V | BGE | 円筒セラコン | 01 |
| C155 | VG287200 | C. EL | 10uF 50V | | ケミコン | 01 |
| C156 | VG287200 | C. EL | 10uF 50V | | ケミコン | 01 |
| C157 | UR817470 | C. EL | 47uF 6. 3V | BGE | ケミコン | |
| C160 | VE326000 | C. MYLAR. ML | 0. 1uF 50V | | 積層マイラーコン | 01 |
| C161 | VE326000 | C. MYLAR. ML | 0. 1uF 50V | | 積層マイラーコン | 01 |
| C162 | VA761100 | C. CE | 27pF 50V | BGE | セラコン | 01 |
| C163 | VA761100 | C. CE | 27pF 50V | BGE | セラコン | 01 |
| C165 | VG287500 | C. EL | 47uF 50V | | ケミコン | 01 |
| C166 | VG287500 | C. EL | 47uF 50V | | ケミコン | 01 |
| C167 | UR837100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C179 | UR838330 | C. EL | 330uF 16V | | ケミコン | 01 |
| C210 | UA654100 | C. MYLAR | 0. 01uF 50V | | マイラーコン | 01 |
| C211 | UR838470 | C. EL | 470uF 16V | | ケミコン | 01 |
| C212 | UN866100 | C. EL | 1uF 50V | | B P ケミコン | |
| C213 | VG290600 | C. EL | 2. 2uF 50V | | ケミコン | 01 |
| C214 | VG290600 | C. EL | 2. 2uF 50V | | ケミコン | 01 |
| C215 | VG287800 | C. EL | 330uF 16V | | ケミコン | 01 |
| C216 | VG287800 | C. EL | 330uF 16V | | ケミコン | 01 |
| C217 | VG290600 | C. EL | 2. 2uF 50V | | ケミコン | 01 |
| C218 | VG290600 | C. EL | 2. 2uF 50V | | ケミコン | 01 |
| C219 | V5690200 | C. PP | 33pF 100V | | P P コン | |
| C220 | V5690200 | C. PP | 33pF 100V | | P P コン | |
| C221 | VG287500 | C. EL | 47uF 50V | | ケミコン | 01 |
| C222 | VG287500 | C. EL | 47uF 50V | | ケミコン | 01 |
| C231 | UR838220 | C. EL | 220uF 16V | JUCKABGE | ケミコン | 01 |
| C231 | UR838330 | C. EL | 330uF 16V | RL | ケミコン | 01 |
| C232 | UR837100 | C. EL | 10uF 16V | RL | ケミコン | 01 |
| C234 | UR839100 | C. EL | 1000uF 16V | JUCKABGE | ケミコン | |
| C234 | UR868220 | C. EL | 220uF 50V | RL | ケミコン | |
| C235 | UA654100 | C. MYLAR | 0. 01uF 50V | | マイラーコン | 01 |
| C236 | UA654100 | C. MYLAR | 0. 01uF 50V | | マイラーコン | 01 |
| C237 | V6185300 | C. CE. SAFTY | 0. 01uF 275V | | 規格認定コン | |
| C261 | WB713600 | C. EL | 4. 7uF 50V | | ケミコン | |
| C262 | WB713600 | C. EL | 4. 7uF 50V | | ケミコン | |
| C263 | VQ645600 | C. MYLAR | 100pF 50V | | マイラーコン | |
| C264 | VG287600 | C. EL | 100uF 25V | | ケミコン | 01 |
| C265 | UA652220 | C. MYLAR | 220pF 50V | | マイラーコン | 01 |
| C266 | VQ645600 | C. MYLAR | 100pF 50V | | マイラーコン | |
| C267 | VQ645600 | C. MYLAR | 100pF 50V | | マイラーコン | |
| C268 | UA652220 | C. MYLAR | 220pF 50V | | マイラーコン | 01 |
| C269 | FG652100 | C. CE | 100pF 50V | | セラコン | 01 |
| C270 | FG644100 | C. CE | 0. 01uF 50V | | セラコン | 01 |
| C271 | VG287500 | C. EL | 47uF 50V | | ケミコン | 01 |

* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

RX-E600/NX-E400

P.C.B. MAIN

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank |
|-----------|----------|--------------|----------------|---------|------------|------|
| C272 | VG287500 | C. EL | 47uF 50V | | ケミコン | 01 |
| C273 | UA653100 | C. MYLAR | 1000pF 50V | | マイラーコン | 03 |
| C274 | UA653100 | C. MYLAR | 1000pF 50V | | マイラーコン | 03 |
| C275 | V5690200 | C. PP | 33pF 100V | | PPコン | |
| C276 | V5690200 | C. PP | 33pF 100V | | PPコン | |
| C277 | VF467300 | C. CE. TUBLR | 0.01uF 16V | | 円筒セラコン | 01 |
| C280 | UR837100 | C. EL | 10uF 16V | | ケミコン | 01 |
| C282 | VG291600 | C. EL | 470uF 50V | | ケミコンRA-2 | |
| C283 | VG291200 | C. EL | 47uF 50V | | ケミコン | 01 |
| C284 | VG291200 | C. EL | 47uF 50V | | ケミコン | 01 |
| C285 | VR325000 | C. MYLAR | 100pF 100V | | マイラーコン | |
| C286 | VG291200 | C. EL | 47uF 50V | | ケミコン | 01 |
| C287 | VR325000 | C. MYLAR | 100pF 100V | | マイラーコン | |
| C288 | VR325000 | C. MYLAR | 100pF 100V | | マイラーコン | |
| C289 | VG291200 | C. EL | 47uF 50V | | ケミコン | 01 |
| C290 | VR325000 | C. MYLAR | 100pF 100V | | マイラーコン | |
| C291 | UA654680 | C. MYLAR | 0.068uF 50V | | マイラーコン | 01 |
| C292 | UA654680 | C. MYLAR | 0.068uF 50V | | マイラーコン | 01 |
| C293 | UR865220 | C. EL | 0.22uF 50V | | ケミコン | |
| C294 | VE326000 | C. MYLAR. ML | 0.1uF 50V | | 積層マイラーコン | 01 |
| C295 | VE326000 | C. MYLAR. ML | 0.1uF 50V | | 積層マイラーコン | 01 |
| C296 | UR866470 | C. EL | 4.7uF 50V | | ケミコン | 01 |
| C297 | UA654220 | C. MYLAR | 0.022uF 50V | | マイラーコン | |
| C298 | UA654220 | C. MYLAR | 0.022uF 50V | | マイラーコン | |
| C300 | UR866470 | C. EL | 4.7uF 50V | | ケミコン | 01 |
| C301 | UR818100 | C. EL | 100uF 6.3V | | ケミコン | 01 |
| C302 | UR838100 | C. EL | 100uF 16V | | ケミコン | 01 |
| * C303 | V9361900 | C. EL | 5600uF 45V | | ブロックケミコン | |
| * C304 | V9361900 | C. EL | 5600uF 45V | | ブロックケミコン | |
| C305 | VE326000 | C. MYLAR. ML | 0.1uF 50V | KABGE | 積層マイラーコン | 01 |
| C306 | VE326000 | C. MYLAR. ML | 0.1uF 50V | KABGE | 積層マイラーコン | 01 |
| C307 | UR866220 | C. EL | 2.2uF 50V | | ケミコン | |
| C309 | FG644100 | C. CE | 0.01uF 50V | | セラコン | 01 |
| C310 | UA654100 | C. MYLAR | 0.01uF 50V | KABGE | マイラーコン | 01 |
| C311 | UA654100 | C. MYLAR | 0.01uF 50V | KABGE | マイラーコン | 01 |
| C313 | UA652100 | C. MYLAR | 100pF 50V | | マイラーコン | 01 |
| C540 | UR866470 | C. EL | 4.7uF 50V | | ケミコン | 01 |
| C541 | UR866470 | C. EL | 4.7uF 50V | | ケミコン | 01 |
| C542 | UR867470 | C. EL | 47uF 50V | | ケミコン | 01 |
| C543 | UR847100 | C. EL | 10uF 25V | | ケミコン | |
| C544 | UR838100 | C. EL | 100uF 16V | | ケミコン | 01 |
| C545 | UR867100 | C. EL | 10uF 50V | | ケミコン | |
| △ C546 | VS745400 | C. POL. MTL | 0.1uF 100V | | メタライズドポリコン | |
| △ C547 | VS745400 | C. POL. MTL | 0.1uF 100V | | メタライズドポリコン | |
| D210 | VM974200 | D10DE. ZENR | HZS5C2TD 5V | | ツェナーダイオード | 01 |
| D231 | VD631600 | D10DE | 1SS133, 176 | | ダイオード | 01 |
| D232 | VM975500 | D10DE. ZENR | HZS12A2TD 12V | RL | ツェナーダイオード | 01 |
| D233 | VR253700 | D10DE. BRG | S1NB20 1A 200V | | D1ブリッジ X4 | 01 |
| D251 | VM974100 | D10DE. ZENR | HZS5B2TD 5V | | ツェナーダイオード | 01 |
| D252 | VD631600 | D10DE | 1SS133, 176 | | ダイオード | 01 |
| D253 | VN008700 | D10DE | 1SS270A | | ダイオード | |
| D254 | VN008700 | D10DE | 1SS270A | | ダイオード | |
| D255 | VM975500 | D10DE. ZENR | HZS12A2TD 12V | | ツェナーダイオード | 01 |

* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

P.C.B. MAIN

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank | |
|-----------|----------|-------------|-------------|-----------------|-------|------------|----|
| | D256 | VM975500 | DIODE. ZENR | HZS12A2TD 12V | | ツェナーダイオード | 01 |
| | D257 | VM976100 | DIODE. ZENR | HZS202TD 20V | | ツェナーダイオード | 01 |
| | D258 | VM975600 | DIODE. ZENR | HZS12B2TD 12V | | ツェナーダイオード | |
| | D270 | VU264200 | DIODE | 1SR139-400 | | ダイオード | |
| | D540 | VM976500 | DIODE. ZENR | HZS302TD 30V | | ツェナーダイオード | |
| △ | D541 | VM975600 | DIODE. ZENR | HZS12B2TD 12V | | ツェナーダイオード | |
| △ | D542 | VQ111400 | DIODE. BRG | D5SBA20-4001 6A | | ダイオードブリッジ | |
| △ | F231 | VT942900 | FUSE | T2. 5A 250V | GE | ヒューズ | |
| △ | F232 | VS822800 | FUSE | T3. 15A 125V | JUCRL | ヒューズ | |
| △ | F232 | KB001660 | FUSE | T1. 6A 250V | KABGE | ヒューズ | 02 |
| △ | F401 | KB001660 | FUSE | T1. 6A 250V | RL | ヒューズ | 02 |
| | IC100 | XP894A00 | IC | LC78211 | | IC | |
| | IC108 | XA987A00 | IC | NJM2068D-D | | IC | 03 |
| | IC109 | XY534A00 | IC | LC72722 | BGE | RDSデコーダIC | |
| | IC113 | XJ757A00 | IC | NJM78L05A-T3 | | IC | 01 |
| | IC210 | XA987A00 | IC | NJM2068D-D | | IC | 03 |
| | IC211 | XF494A00 | IC | LB1641 | | IC | 03 |
| | JK250 | VJ726800 | JACK. MNI | | | モノラルミニジャック | 01 |
| | PJ100 | VU857800 | JACK. PIN | 6P | | ピンジャック | |
| | PJ101 | VU857800 | JACK. PIN | 6P | | ピンジャック | |
| | PJ250 | VV306800 | JACK. PIN | 1P | | ピンジャック | |
| | PN231 | V3750200 | PIN | L=70 | | スタイルピン | |
| | PN251 | V3750200 | PIN | L=70 | | スタイルピン | |
| | Q108 | iC174020 | TR | 2SC1740S QRS | BGE | トランジスタ | |
| | Q231 | iC181510 | TR | 2SC1815 Y | | トランジスタ | 01 |
| | Q232 | VR510800 | TR | 2SD2396 J, K | RL | トランジスタ | |
| | Q250 | iC287820 | TR | 2SC2878 A, B | | トランジスタ | 01 |
| | Q251 | iC287820 | TR | 2SC2878 A, B | | トランジスタ | 01 |
| △ | Q252 | V8848200 | TR | 2SA844DTZ D | | トランジスタ | |
| △ | Q253 | V8848200 | TR | 2SA844DTZ D | | トランジスタ | |
| △ | Q254 | V8848200 | TR | 2SA844DTZ D | | トランジスタ | |
| △ | Q255 | V8848200 | TR | 2SA844DTZ D | | トランジスタ | |
| | Q256 | VC218900 | TR | 2SC3330 R, S, T | | トランジスタ | 01 |
| | Q257 | VC218700 | TR | 2SA1317 R, S, T | | トランジスタ | 01 |
| | Q258 | VC218900 | TR | 2SC3330 R, S, T | | トランジスタ | 01 |
| △ | Q259 | VR325600 | TR | 2SC2229 O, Y | | トランジスタ | |
| △ | Q260 | VR325600 | TR | 2SC2229 O, Y | | トランジスタ | |
| △ | Q261 | VC218900 | TR | 2SC3330 R, S, T | | トランジスタ | 01 |
| △ | Q262 | VC218900 | TR | 2SC3330 R, S, T | | トランジスタ | 01 |
| △ | Q263 | VP872700 | TR | 2SC4488 S, T | | トランジスタ | |
| △ | Q264 | VP872600 | TR | 2SA1708 S, T | | トランジスタ | |
| △ | Q265 | VP872600 | TR | 2SA1708 S, T | | トランジスタ | |
| △ | Q266 | VP872700 | TR | 2SC4488 S, T | | トランジスタ | |
| △ | Q267A | iX615750 | TR | 2SA1694 O, P, Y | | トランジスタ | 05 |
| △ | Q267C | iX615760 | TR | 2SC4467 O, P, Y | | トランジスタ | 05 |
| △ | Q269A | iX615750 | TR | 2SA1694 O, P, Y | | トランジスタ | 05 |
| △ | Q269C | iX615760 | TR | 2SC4467 O, P, Y | | トランジスタ | 05 |
| | Q271 | iC181510 | TR | 2SC1815 Y | | トランジスタ | 01 |
| | Q272 | iA097030 | TR | 2SA970 GR, BL | | トランジスタ | 01 |
| | Q273 | iC181510 | TR | 2SC1815 Y | | トランジスタ | 01 |
| △ | Q274 | VC218900 | TR | 2SC3330 R, S, T | | トランジスタ | 01 |
| △ | Q275 | VP883100 | TR | 2SC1890A D, E | | トランジスタ | 01 |
| △ | Q276 | VP883100 | TR | 2SC1890A D, E | | トランジスタ | 01 |

* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

P.C.B. MAIN

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank |
|-----------|----------|--------------|--------------------|----------|-----------|------|
| Q277 | iA097030 | TR | 2SA970 GR, BL | | トランジスタ | 01 |
| △ Q278 | VP872600 | TR | 2SA1708 S, T | | トランジスタ | |
| Q279 | iC224030 | TR | 2SC2240 GR, BL | | トランジスタ | 01 |
| Q280 | iC224030 | TR | 2SC2240 GR, BL | | トランジスタ | 01 |
| Q281 | iC287820 | TR | 2SC2878 A, B | | トランジスタ | 01 |
| Q282 | iC287820 | TR | 2SC2878 A, B | | トランジスタ | 01 |
| Q283 | iC287820 | TR | 2SC2878 A, B | | トランジスタ | 01 |
| Q284 | iC287820 | TR | 2SC2878 A, B | | トランジスタ | 01 |
| △ Q540 | VP872600 | TR | 2SA1708 S, T | | トランジスタ | |
| △ Q541 | VR510800 | TR | 2SD2396 J, K | | トランジスタ | |
| △ R167 | HV753220 | R. CAR. FP | 2.2Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R168 | HV753220 | R. CAR. FP | 2.2Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R169 | HV753470 | R. CAR. FP | 4.7Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R210 | HV754100 | R. CAR. FP | 10Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R211 | VP940200 | R. MTL. OXD | 47Ω 1W | | 酸化金属被膜抵抗 | 01 |
| △ R222 | HV753220 | R. CAR. FP | 2.2Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R223 | HV753220 | R. CAR. FP | 2.2Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R294 | HV756470 | R. CAR. FP | 4.7KΩ 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R295 | HV756470 | R. CAR. FP | 4.7KΩ 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R296 | HV754470 | R. CAR. FP | 47Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R297 | HV754470 | R. CAR. FP | 47Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R298 | HV756470 | R. CAR. FP | 4.7KΩ 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R299 | HV756470 | R. CAR. FP | 4.7KΩ 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R301 | HV756270 | R. CAR. FP | 2.7KΩ 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R303 | VK189000 | R. FUS | 1KΩ 1/4W | | ヒューズ抵抗 | 01 |
| △ R304 | VK189000 | R. FUS | 1KΩ 1/4W | | ヒューズ抵抗 | 01 |
| △ R306 | HV756270 | R. CAR. FP | 2.7KΩ 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R307 | VP940200 | R. MTL. OXD | 47Ω 1W | | 酸化金属被膜抵抗 | 01 |
| △ R308 | HV756100 | R. CAR. FP | 1KΩ 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R309 | HV756100 | R. CAR. FP | 1KΩ 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R311 | VK188400 | R. FUS | 330Ω 1/4W | | ヒューズ抵抗 | 01 |
| △ R312 | VK188400 | R. FUS | 330Ω 1/4W | | ヒューズ抵抗 | 01 |
| △ R313 | HV753470 | R. CAR. FP | 4.7Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R314 | HV753470 | R. CAR. FP | 4.7Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R315 | HV753470 | R. CAR. FP | 4.7Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R316 | HV753470 | R. CAR. FP | 4.7Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R319 | VU981700 | R. MTL. PLAT | 0.22Ω+0.22 3W | | 金属板抵抗 | |
| △ R320 | VU981700 | R. MTL. PLAT | 0.22Ω+0.22 3W | | 金属板抵抗 | |
| △ R337 | VP939800 | R. MTL. OXD | 10Ω 1W | | 酸化金属被膜抵抗 | 01 |
| △ R338 | VP939800 | R. MTL. OXD | 10Ω 1W | | 酸化金属被膜抵抗 | 01 |
| △ R340 | VP940700 | R. MTL. OXD | 330Ω 1W | | 酸化金属被膜抵抗 | 01 |
| △ R343 | VP940700 | R. MTL. OXD | 330Ω 1W | | 酸化金属被膜抵抗 | 01 |
| △ R349 | HV754100 | R. CAR. FP | 10Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R350 | HV754100 | R. CAR. FP | 10Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R354 | HV755680 | R. CAR. FP | 680Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R355 | HV756820 | R. CAR. FP | 8.2KΩ 1/4W | | 不燃化カーボン抵抗 | |
| △ R358 | VP940700 | R. MTL. OXD | 330Ω 1W | | 酸化金属被膜抵抗 | 01 |
| △ R359 | VP940700 | R. MTL. OXD | 330Ω 1W | | 酸化金属被膜抵抗 | 01 |
| △ R540 | HV753470 | R. CAR. FP | 4.7Ω 1/4W | | 不燃化カーボン抵抗 | 01 |
| △ R550 | HV753100 | R. CAR. FP | 1Ω 1/4W | | 不燃化カーボン抵抗 | |
| △ RY231 | V8848500 | RELAY | DC DLS5D1-0(M)0.15 | JUCKABGE | リレー 5V | |
| △ RY231 | V2712300 | RELAY | DC SDT-S-112LMR | RL | リレー 12V | |
| △ RY250 | V5966300 | RELAY | DS24D2-0S(M) | | リレー 24V | |

* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

P.C.B. MAIN

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank | |
|-----------|----------|-------------|--------------|-------------------|-------|-------------|----|
| | ST231 | V4040500 | SCR. TERM | M3 | | スクリュー/ターミナル | |
| * | SW250 | V3624300 | SW. SLIDE | SS029-P022MJB-PA6 | RL | スライドSW | |
| * | SW401 | WB493700 | VOLT. SELECT | R8140246 | RL | 電圧切替器 | |
| △ | T231 | X2767A00 | TRANS. PWR | | J | サブトランス | |
| * | △ | T231 | X2768A00 | TRANS. PWR | UC | サブトランス | |
| * | △ | T231 | XV444A00 | TRANS. PWR | RL | サブトランス | |
| * | △ | T231 | X2770A00 | TRANS. PWR | KABGE | サブトランス | |
| △ | TE231 | VU543100 | OUTLET. AC | 2P | JUC | ACアウトレット | |
| △ | TE231 | V5867400 | OUTLET. AC | 2P | R | ACアウトレット | |
| △ | TE231 | VT915000 | OUTLET. AC | 1P | A | ACアウトレット | |
| △ | TE231 | VU543300 | OUTLET. AC | 1P | B | ACアウトレット | |
| △ | TE231 | VU543400 | OUTLET. AC | 2P | GEL | ACアウトレット | |
| | TE250 | VY696300 | TERM. SP | 4P | JUCRL | スピーカーターミナル | |
| | TE250 | VY696400 | TERM. SP | 4P | KABGE | スピーカーターミナル | 06 |
| | VR210 | V7375500 | VR. MTR | A100KΩ RK16812MG | | モーターツキVR | |
| | XL100 | V3930900 | RSNR. CRYS | 4.332MHz | BGE | 水晶振動子 | |
| | | EP600830 | SCR. BND. HD | 3x8 MFC2BL | RL | バインドBタイトネジ | 01 |

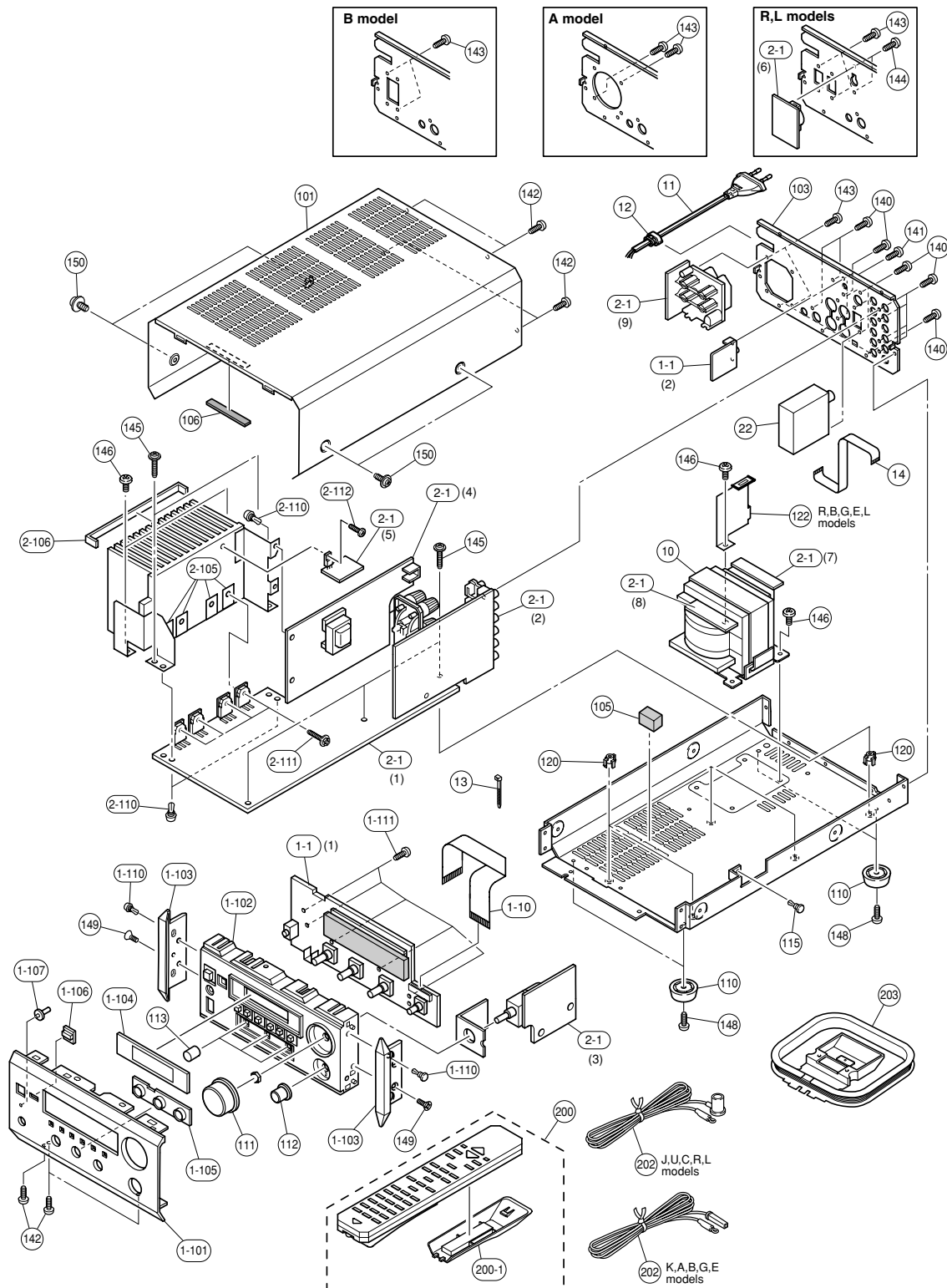
* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

Chip Parts

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank |
|-----------|----------|---------------|-------------|---------|---------|------|
| | US061220 | C. CE. M. CHP | 22pF 50V | | チップセラコン | |
| | US062100 | C. CE. M. CHP | 100pF 50V | | チップセラコン | |
| | US062680 | C. CE. M. CHP | 680pF 50V | | チップセラコン | |
| | US064100 | C. CE. M. CHP | 0.01uF 50V | | チップセラコン | |
| | US135100 | C. CE. CHP | 0.1uF 16V | | チップセラコン | |
| | RD350000 | R. CHP | 0Ω 1/16W | | チップ抵抗 | 01 |
| | RD353220 | R. CHP | 2.2Ω 1/16W | | チップ抵抗 | |
| | RD355100 | R. CHP | 100Ω 1/16W | | チップ抵抗 | 01 |
| | RD355220 | R. CHP | 220Ω 1/16W | | チップ抵抗 | 01 |
| | RD355270 | R. CHP | 270Ω 1/16W | | チップ抵抗 | 01 |
| | RD355390 | R. CHP | 390Ω 1/16W | | チップ抵抗 | 01 |
| | RD355470 | R. CHP | 470Ω 1/16W | | チップ抵抗 | 01 |
| | RD356100 | R. CHP | 1KΩ 1/16W | | チップ抵抗 | 01 |
| | RD356180 | R. CHP | 1.8KΩ 1/16W | | チップ抵抗 | 01 |
| | RD356220 | R. CHP | 2.2KΩ 1/16W | | チップ抵抗 | 01 |
| | RD356470 | R. CHP | 4.7KΩ 1/16W | | チップ抵抗 | 01 |
| | RD356560 | R. CHP | 5.6KΩ 1/16W | | チップ抵抗 | 01 |
| | RD356680 | R. CHP | 6.8KΩ 1/16W | | チップ抵抗 | |
| | RD357100 | R. CHP | 10KΩ 1/16W | | チップ抵抗 | |
| | RD357220 | R. CHP | 22KΩ 1/16W | | チップ抵抗 | 01 |
| | RD357330 | R. CHP | 33KΩ 1/16W | | チップ抵抗 | 01 |
| | RD357470 | R. CHP | 47KΩ 1/16W | | チップ抵抗 | 01 |
| | RD358100 | R. CHP | 100KΩ 1/16W | | チップ抵抗 | 01 |
| | RD358220 | R. CHP | 220KΩ 1/16W | | チップ抵抗 | 01 |

* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

EXPLODED VIEW



% : Note on the OPERATION P.C.B.

Of the OPERATION P.C.B. (1-1) part Nos., only the silver (SI) type part Nos. are included in the table.

The only different part between the gold (GD) and silver (SI) type parts is the sheet/FL that is attached to the fluorescent character display tube. When a gold (GD) type OPERATION P.C.B. becomes necessary, order a silver (SI) type OPERATION P.C.B. and a gold (GD) type sheet/FL (VR519500) and replace the sheet/FL of the silver (SI) type OPERATION P.C.B. with the gold (GD) type sheet/FL.

% : OPERATION P.C.B.の注意

OPERATION P.C.B.(1-1)の部品No.はシルバー(SI)用の部品No.のみを記載しています。

シルバー(SI)とゴールド(GD)の違う部品は、蛍光表示管に貼り付けるシート/FLのみです。

ゴールド(GD)用のOPERATION P.C.B.が必要になった場合は、シルバー(SI)用のOPERATION P.C.B.とゴールド(GD)用のシート/FL (VR519500)を取り寄せ、シート/FLを貼り替えて使用してください。

MECHANICAL PARTS

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank |
|-----------|----------|-------------|-------------------------|------------------|-------|-------|
| * % | 1-1 | WD860900 | P. C. B. ASS' Y | OPERATION | SI | |
| | 1-10 | MF117120 | FLEXIBLE FLAT CABLE | 17P 120mm P=1.25 | | |
| * | 1-101 | WD608600 | FRONT PANEL | | GD | UCRKA |
| * | 1-101 | WD609400 | FRONT PANEL | | GD | GE |
| * | 1-101 | WD608400 | FRONT PANEL | | SI | JURL |
| * | 1-101 | WD609200 | FRONT PANEL | | SI | BGE |
| | 1-102 | V8785100 | SUB PANEL-RX | | GD | |
| | 1-102 | V8785000 | SUB PANEL-RX | | SI | |
| | 1-103 | V8785200 | PANEL/SIDE | H100 | | |
| | 1-104 | V8786500 | SHEET/WINDOWS | | | |
| | 1-105 | V8785600 | ESCUTCHEON/3P | | GD | |
| | 1-105 | V8785500 | ESCUTCHEON/3P | | SI | |
| | 1-106 | V8785300 | LENS/REMOCON | | | |
| | 1-107 | V8785400 | LENS/1P | | | |
| | 1-110 | VQ368600 | PUSH RIVET | P3555-B | | 01 |
| | 1-111 | VF617600 | PAN HEAD P-TIGHT SCREW | 2.6x8 MFC2BL | | 01 |
| * | 2-1 | WD861900 | P. C. B. ASS' Y | MAIN | | J |
| | 2-1 | V9319100 | P. C. B. ASS' Y | MAIN | | UC |
| * | 2-1 | WD892600 | P. C. B. ASS' Y | MAIN | | R |
| * | 2-1 | WD862000 | P. C. B. ASS' Y | MAIN | | K |
| | 2-1 | V9332000 | P. C. B. ASS' Y | MAIN | | A |
| | 2-1 | V9332100 | P. C. B. ASS' Y | MAIN | | B |
| | 2-1 | V9332200 | P. C. B. ASS' Y | MAIN | | GE |
| * | 2-1 | WD862100 | P. C. B. ASS' Y | MAIN | | L |
| | 2-105 | VV849300 | RADIATION SHEET | 19x24 | | 01 |
| | 2-106 | VP922500 | DAMPER | 2x10x170 | | 01 |
| | 2-110 | VQ368600 | PUSH RIVET | P3555-B | | 01 |
| | 2-111 | VK173200 | SCREW, TRANSISTOR | 3x15 SP MFC2 | | 01 |
| | 2-112 | EP600250 | BIND HEAD B-TIGHT SCREW | 3x8 MFZN2Y | | 01 |
| * ⚠ | 10 | X5904A00 | POWER TRANSFORMER | | | J |
| * ⚠ | 10 | X2696A00 | POWER TRANSFORMER | | | UC |
| * ⚠ | 10 | X2698A00 | POWER TRANSFORMER | | | RL |
| * ⚠ | 10 | X5903A00 | POWER TRANSFORMER | | | K |
| * ⚠ | 10 | X2697A00 | POWER TRANSFORMER | | | A |
| * ⚠ | 10 | X2699A00 | POWER TRANSFORMER | | | BGE |
| * ⚠ | 11 | V2723100 | POWER CABLE | 1.8m | | J |
| * ⚠ | 11 | V9293500 | POWER CABLE | 2m | | UC |
| * ⚠ | 11 | WC992700 | POWER CABLE | 2m | | R |
| * ⚠ | 11 | V8013000 | POWER CABLE | 2m | | K |
| * ⚠ | 11 | WC743700 | POWER CABLE | 2m | | A |
| * ⚠ | 11 | VV437300 | POWER CABLE | 2m | | B |
| * ⚠ | 11 | V9293600 | POWER CABLE | 2m | | GEL |
| | 12 | V2438700 | CORD STOPPER | 10P1 | | |
| | 13 | VU590000 | BINDING TIE | CBTD001B | | |
| * | 14 | MF115160 | FLEXIBLE FLAT CABLE | 15P 160mm P=1.25 | | |
| | 22 | V6782200 | AM/FM TUNER | TFCE1J117A | | J |
| | 22 | V6782300 | AM/FM TUNER | TFCE1U115A | | UCRL |
| | 22 | V6782400 | AM/FM TUNER | TFCE1E317A | | KABGE |
| | 101 | V8784300 | TOP COVER | | GD | |
| | 101 | V8784200 | TOP COVER | | SI | |
| * | 103 | WD691200 | REAR PANEL | | | J |
| * | 103 | WD691300 | REAR PANEL | | | UC |

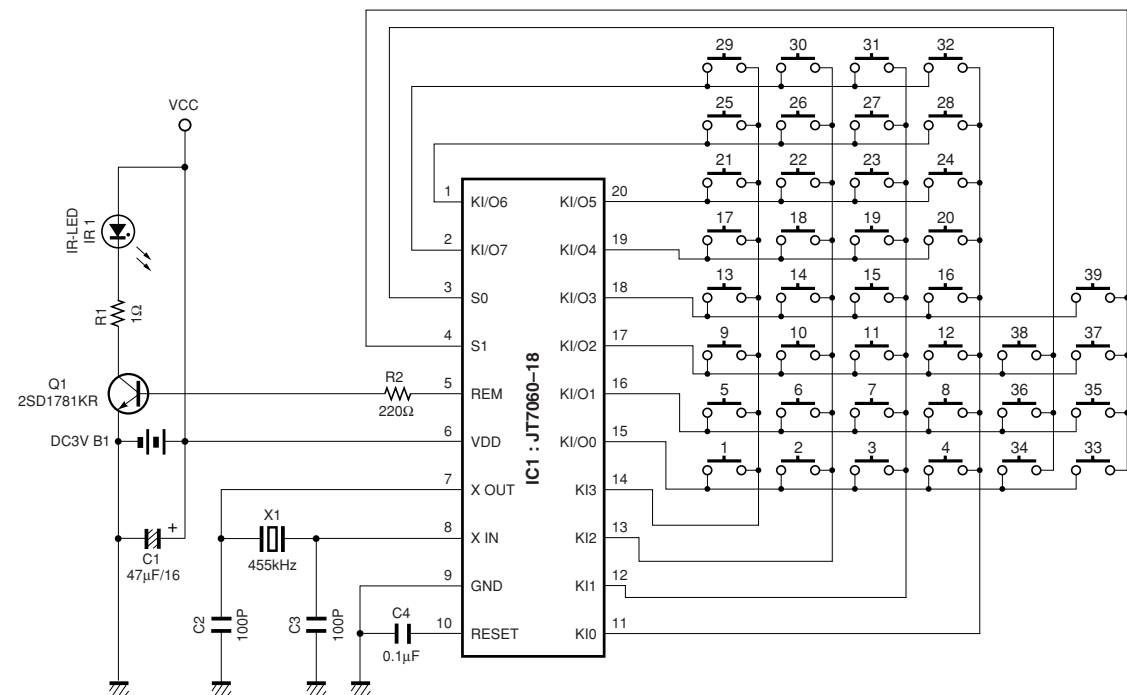
* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

| Schm Ref. | PART NO. | Description | Remarks | Markets | 部 品 名 | Rank |
|-----------|----------|------------------------|------------------------------|-----------------|-----------------|-----------------|
| * | 103 | WD605300 | REAR PANEL | | R | リヤパネル |
| * | 103 | WD691500 | REAR PANEL | | K | リヤパネル |
| * | 103 | WD605200 | REAR PANEL | | A | リヤパネル |
| * | 103 | WD765900 | REAR PANEL | | B | リヤパネル |
| * | 103 | WD605400 | REAR PANEL | | GE | リヤパネル |
| * | 103 | WD691400 | REAR PANEL | | L | リヤパネル |
| | 105 | VQ390100 | DAMPER | 8x8x15 | | ダンパー 01 |
| | 106 | VP857700 | DAMPER | 4x6x5 | | ダンパー |
| | 110 | V3688500 | LEG | M0080-M0 | | レッグ |
| * | 111 | WB249400 | KNOB D30 | VOLUME | GD | ノブD30 |
| * | 111 | WB249300 | KNOB D30 | VOLUME | SI | ノブD30 |
| * | 112 | WB248700 | KNOB D15 | INPUT | GD | ノブD15 |
| * | 112 | WB248600 | KNOB D15 | INPUT | SI | ノブD15 |
| | 113 | V8786000 | KNOB D10 | | GD | ノブ/D10 |
| | 113 | V8786100 | KNOB D10 | | SI | ノブ/D10 |
| | 115 | VQ368600 | PUSH RIVET | P3555-B | | プッシュリベット 01 |
| | 120 | VR264400 | SPACER | H8 | | スペーサー |
| | 122 | V9817200 | SHEET/BARRIER-RX | | RBGEL | シート/バリヤーRX |
| | 140 | VN413300 | BIND HEAD BONDING B-T. SCREW | 3x8 MFZN2BL | | ボンディングBタイトネジ 01 |
| | 141 | VY731200 | BONDING HEAD TAPPING SCREW | 3x10 MFN133 | | ボンディングBタイトネジ |
| | 142 | EP600830 | BIND HEAD B-TIGHT SCREW | 3x8 MFC2BL | | バインドBタイトネジ 01 |
| | 143 | EP600250 | BIND HEAD B-TIGHT SCREW | 3x8 MFZN2Y | | バインドBタイトネジ 01 |
| | 144 | EG330030 | BIND HEAD SCREW | 3x6 MFC2BL | RL | バインド小ネジ 01 |
| | 145 | VT669400 | PW HEAD B-TIGHT SCREW | 3x15-8 MFC2 | | PWヘッドBタイトネジ |
| | 146 | V2728500 | BIND HEAD S-TIGHT SCREW | 4x7 MFZN2BL | | バインドSタイトネジ |
| | 148 | EL300650 | PW HEAD B-TIGHT SCREW | 3x8-8 MFC2BL | | PWヘッドBタイトネジ 01 |
| | 149 | EP600790 | FLAT HEAD B-TIGHT SCREW | 3x8 MFZN2BL | | 皿Bタイトネジ |
| | 150 | VY712800 | PW HEAD B-TIGHT SCREW | 3x8-8 MFN133 | | PWヘッドBタイトネジ |
| % | VR519500 | SHEET. FL | | | GD | シート/FL |
| | | ACCESSORIES | | | | 付属品 |
| * | 200 | WD783500 | REMOTE CONTROL | RC7060-01 SYS42 | RC7060-01 SYS42 | JUCRKAL |
| * | 200 | WD783600 | REMOTE CONTROL | RC7060-01 SYS43 | RC7060-01 SYS43 | BGE |
| | 200-1 | AAX13340 | BATTERY COVER | BLJYE 60050001 | BLJYE 60050001 | |
| | 202 | V6267000 | INDOOR FM ANTENNA | 1.4m 1pc | | JUCRL |
| | 202 | VQ147100 | INDOOR FM ANTENNA | 1.4m 1pc | | KABGE |
| | 203 | VR248500 | AM LOOP ANTENNA | 1.0m 1pc | | |
| | | BATTERY, MANGANESE DRY | SUM-3N | 2pcs | | 乾電池 2PCS |

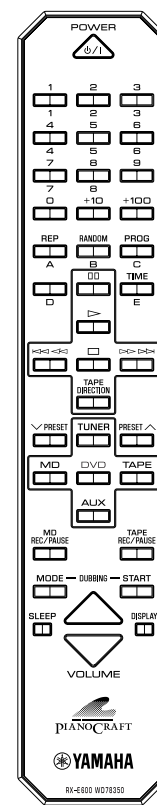
* New Parts * 新規部品(マーク#の部品は、基板に含まれません)

REMOTE CONTROL

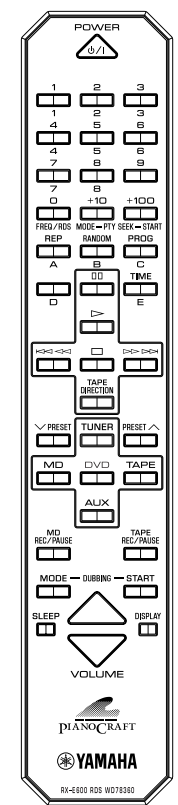
SCHEMATIC DIAGRAM



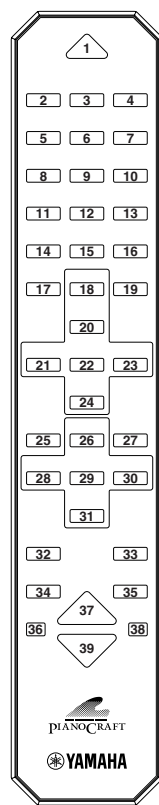
U, C, R, K, A, L, J models



B, G, E models



Key No.



TRANSMISSION FORMAT: NEC-FORMAT
CUSTOM CODE (HEX): 78

| Key No. | Key Name | Data Code (HEX) | Key No. | Key Name | Data Code (HEX) |
|---------|--------------|-----------------|---------|----------------|-----------------|
| 1 | POWER | 0F | 21 | ◀◀◀ | 04 |
| 2 | 1 | 11 | 22 | ■ | 01 |
| 3 | 2 | 12 | 23 | ▶▶▶ | 03 |
| 4 | 3 | 13 | 24 | TAPE DIRECTION | 43 |
| 5 | 4 | 14 | 25 | ∨ PRESET | 1C |
| 6 | 5 | 15 | 26 | TUNER | 4B |
| 7 | 6 | 16 | 27 | PRESET ^ | 1B |
| 8 | 7 | 17 | 28 | MD | 57 |
| 9 | 8 | 18 | 29 | DVD | 4A |
| 10 | 9 | 19 | 30 | TAPE | 41 |
| 11 | 0 (FREQ/RDS) | 10 | 31 | AUX | 49 |
| 12 | +10 (MODE) | 1A | 32 | MD REC/PAUSE | 58 |
| 13 | +100 (START) | 1D | 33 | TAPE REC/PAUSE | 46 |
| 14 | REP (A) | 0C | 34 | MODE | 05 |
| 15 | RANDOM (B) | 07 | 35 | START | 06 |
| 16 | PROG (C) | 0B | 36 | SLEEP | 4F |
| 17 | D | 09 | 37 | VOLUME ^ | 1E |
| 18 | ■ | 0A | 38 | DISPLAY | 4E |
| 19 | TIME | 08 | 39 | VOLUME ∨ | 1F |
| 20 | ▶ | 02 | | | |

SYSTEM CONTROL / システムコントロール

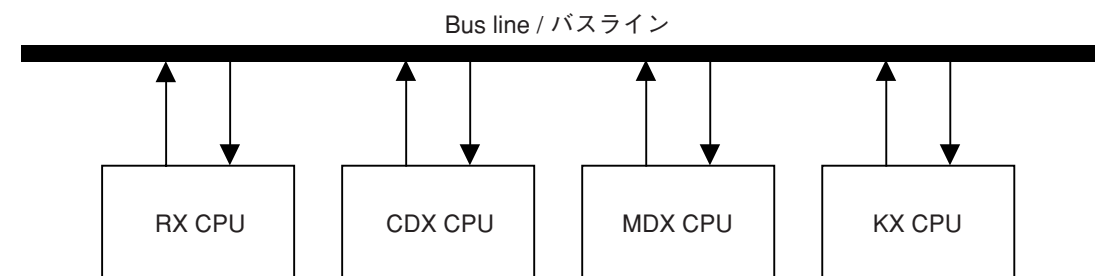
Features

- One bus line controls all the units.
- Units are connected in series, using monaural mini jacks.
- Units can be connected in any order

特徴

- バスライン1本で制御
- 接続はモノラルミニジャックにより、各セットをシリーズに接続。
- 接続する順番は自由。

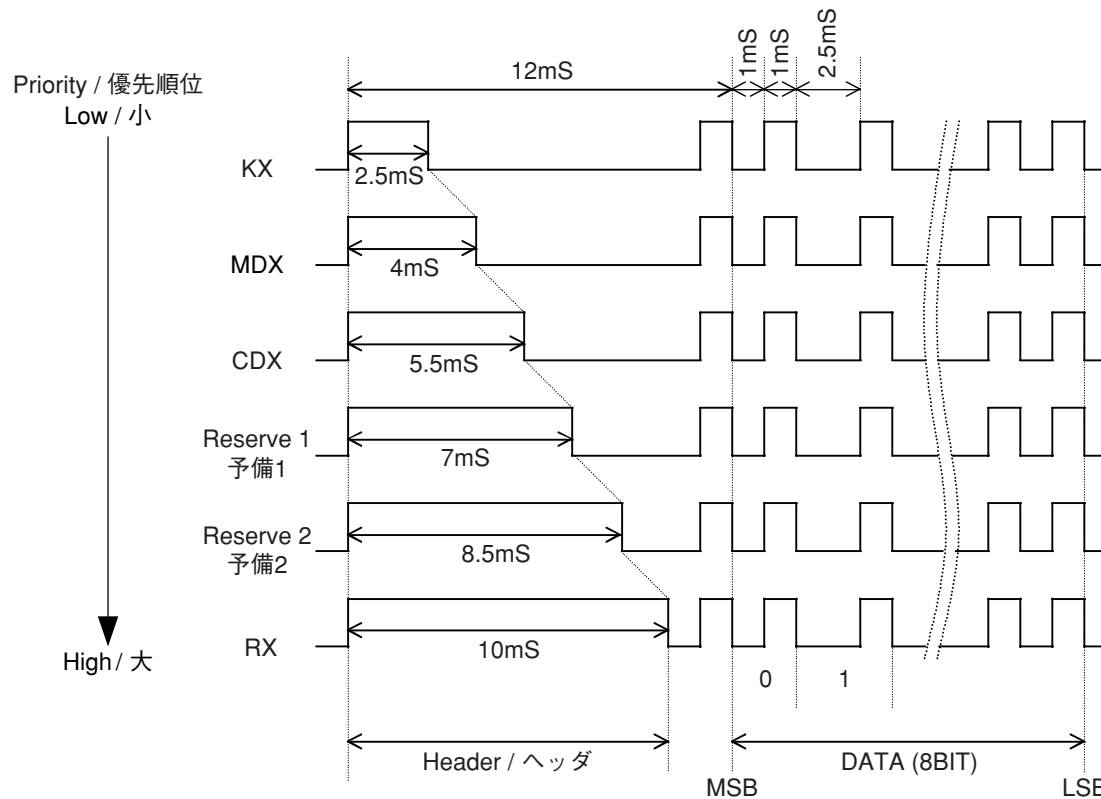
Description of Operation



動作説明

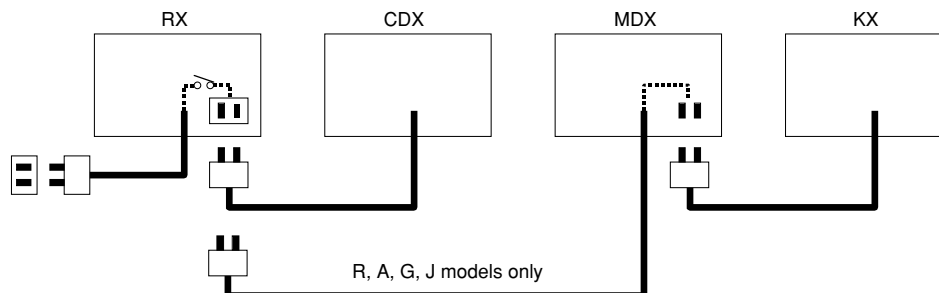
Serial Data Format

シリアルデータフォーマット



Note) When transmitting a data following the previous data, leave at least 2mS space between them. (at least 4mS only when transmitting the CD text data)

注) 前のデータに続けて次のデータを送るときは、2mS以上あけること。(ただしCDテキストデータの送信時のみ4mS以上とする)

Description of main system operation1) POWER ON/OFF processing [(1) to (4)]
(U, C, R, A, B, G, E, L models only)

- The power cord of each unit is connected to the AC outlet in series and switched on and off through the RX relay.
- Turning off the RX power switch will turn off the power to other units (primary connection) but turning off the power switch of any other unit will turn off the secondary connection of each unit only (i.e., the microprocessor remains on).
- Each unit has a backup function to save the secondary connection status when unplugged (taking use of a unit alone into consideration)
- The indicators of units are turned on after a dimmer level signal is fed from RX so that they light up simultaneously when the RX power switch is turned on. However, as the indicator of a unit does not light up when the unit is used alone in this setting, the indicator is forced to turn on when 2 seconds have elapsed without a dimmer level signal being fed (and the power for the backup function is turned on). When the CD unit is used alone, the timer play mode is set regardless of the backup function status.
- Make sure that the power off processing of each unit has been completed before turning off the power by using the RX relay.

2) FUNCTION [(5) to (6)]

- No source other than that selected by the input selector will be reproduced.
- The functions are selected automatically to be suitable for the source to be reproduced.
- Selecting the functions is prohibited during recording.

3) TIMER operation [(7) to (8)]

- TIMER PLAY to start reproduction at a specified time
- TIMER REC to start recording at a specified time

4) AUTO POWER OFF [(9)]

The RX power is turned OFF when the FUNCTION setting is other than TUNER and AUX and no key operation has been made for half an hour while all the connected units are at stop.

5) AUTO POWER ON [(10)]

If the power of the connected units has been turned off while the RX power is on and when a key involving reproduction is pressed, the power is turned on automatically.

6) Dimmer

There are 7 dimmer level settings. The dimmer level data is transmitted from the receiver when the power is turned on. The dimmer level is "0" when a unit is used alone.

主なシステム動作の説明

1) POWER ON/OFF処理[(1)～(4)]

- 各機器の電源コードはシリーズにACアウトレットに接続され、RXのリレーによりswitched動作する。
- RXのPOWER SWでOFFすると、その他の機器への電源の供給は切る（一次切り）が、RX以外でPOWER SWをOFFした場合は、各機器の二次切りのみ切る（マイコンは生きています）。
- 各機器はコンセントが切れるときの二次切りの状態をバックアップしておく（単品使用も考慮するため）。
- RXのPOWER SWをONしたとき、各機器の表示が同時に点灯するように、RXからの「ディマーレベル」信号が来てから点灯させる。ただし、そのままでは単品使用では点灯しなくなるため、2秒間待っても「ディマーレベル」が来ないときは、強制的に点灯させる（バックアップがPOWER ONのとき）。
- RXでPOWER OFFするときは、各接続機器がPOWER OFF処理を終えてからリレーを切る。

2) FUNCTION関連[(5)～(6)]

- インプットセレクターで選ばれたソース以外は再生させない。
- 再生させるソースに合わせて、自動的にFUNCTIONを切り換える。
- 録音中はFUNCTION切り換えを禁止する。

3) タイマー動作[(7)～(8)]

- ある時刻になると再生を開始するTIMER PLAY。
- ある時刻になると録音を開始するTIMER REC。

4) AUTO POWER ON [(9)]

RXの電源が入った状態で接続機器のパワーがOFFされていた場合、再生動作に関わるKEYが押されたときは、自動的にパワーをONする。

5) CD TEXT対応

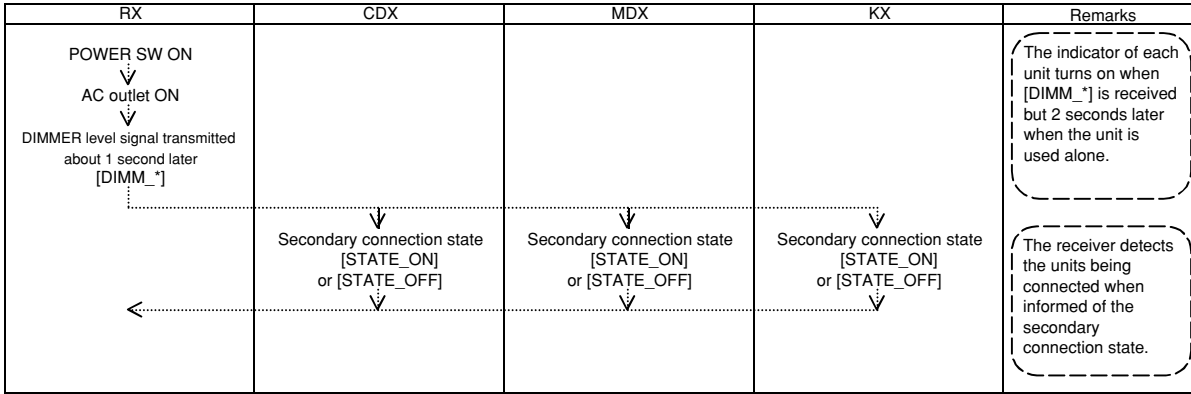
CD TEXT対応のCDをMDにシンクロ録音またはEDIT録音する場合、テキストデータも録音する。ただし、前者はトラック名のみ、後者はディスク名とアーティスト名とトラック名でそれぞれ最大127文字とする。

6) ディマー

全7段階のディマーレベルを設定（パワーON時、RXより送信）。単品使用のときはディマーレベル0。

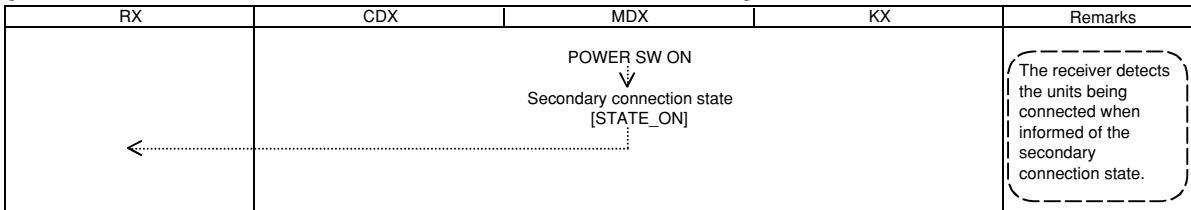
(1) POWER ON PROCESSING (Receiver)

When the power is turned on at the receiver, the relay of the AC outlet is turned on to supply power to each unit.
Each unit informs the receiver of its status when started (secondary connection status).



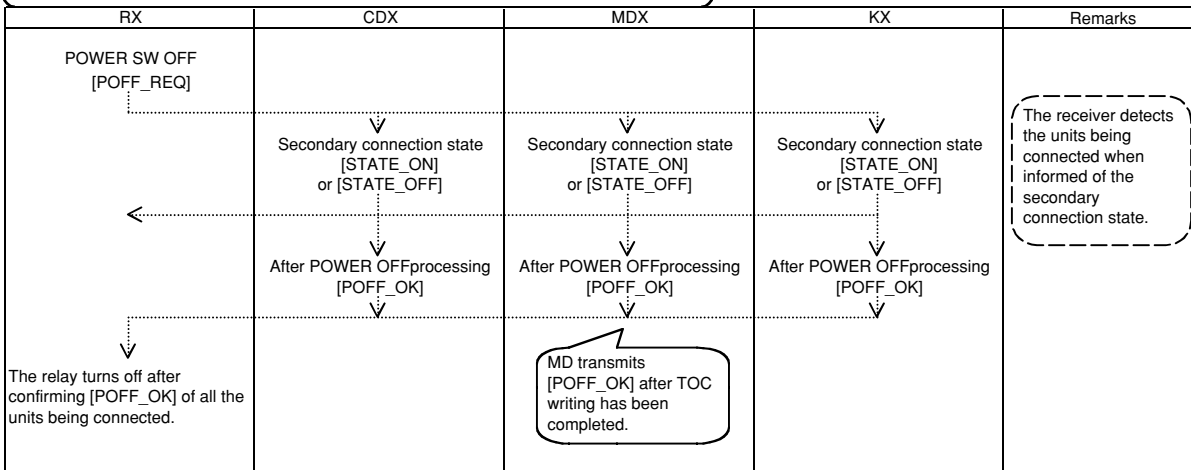
(2) POWER ON PROCESSING (except receiver)

When the power is turned on at a unit other than the receiver, the unit informs the receiver of the status then.



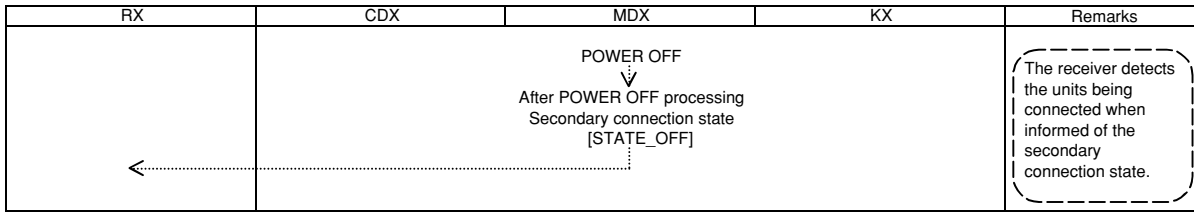
(3) POWER OFF PROCESSING (Receiver)

The receiver turns off the AC outlet when the power off processing of each unit has been completed.



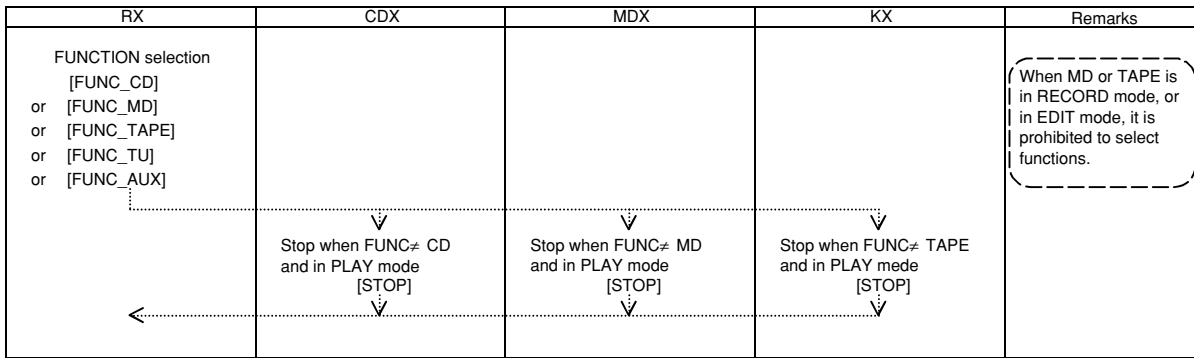
(4)POWER OFF processing (except receiver)

When the power is turned off at a unit other than the receiver, the unit informs the receiver of the status when the power off processing has been completed.



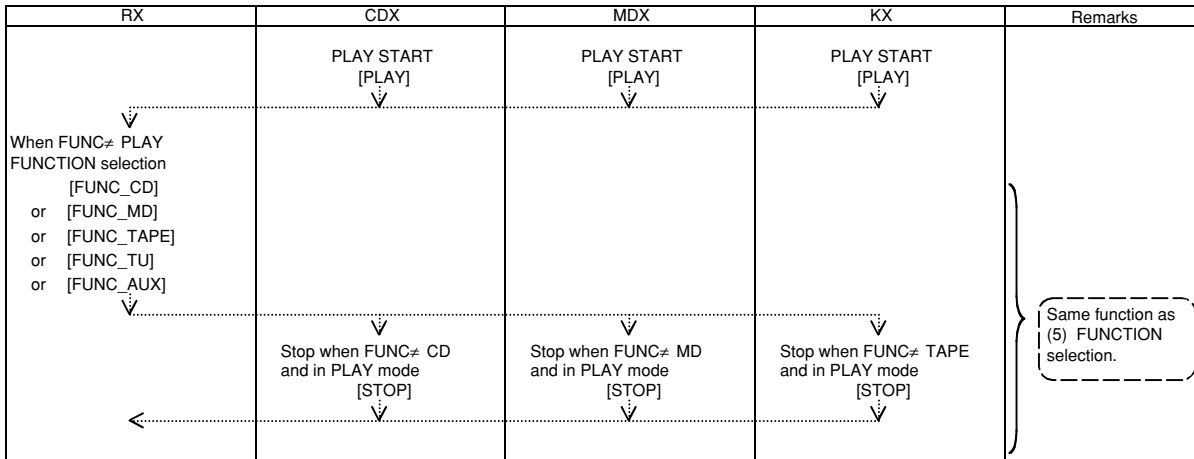
(5)FUNCTION selection

When the RX function is selected, the unit in the PLAY mode will be stopped.



(6)AUTO FUNCTION

When each unit is set to the PLAY mode, the receiver selects the function to be suitable for that.



(4) POWER OFF処理 (RX以外)

RX以外の機器でPOWERをOFFしたときは、POWER OFF処理終了後、RXにその状態を伝える。

| RX | CDX | MDX | KX | 備考 |
|----|-----|---|----|-----------------------------------|
| | | POWER OFF ↓ POWER OFF処理終了後 二次切り状態 [STATE_OFF] | | RXに二次切り状態を伝えることにより、RXは接続機器を把握できる。 |

(5) FUNCTION切り換え

RXのFUNCTIONを切り換えると、PLAY中の機器をSTOPさせる。

| RX | CDX | MDX | KX | 備考 |
|--|--------------------------------------|--------------------------------------|--|--|
| FUNCTION切り換え [FUNC_CD] or [FUNC_MD] or [FUNC_TAPE] or [FUNC_TU] or [FUNC_AUX] | | | | MDまたはTAPEが録音モードのとき、またはEDIT中のFUNCTION切り換えは不許可とする。 |
| | FUNC≠CDの場合 PLAY中ならばSTOP [STOP] | FUNC≠MDの場合 PLAY中ならばSTOP [STOP] | FUNC≠TAPEの場合 PLAY中ならばSTOP [STOP] | |

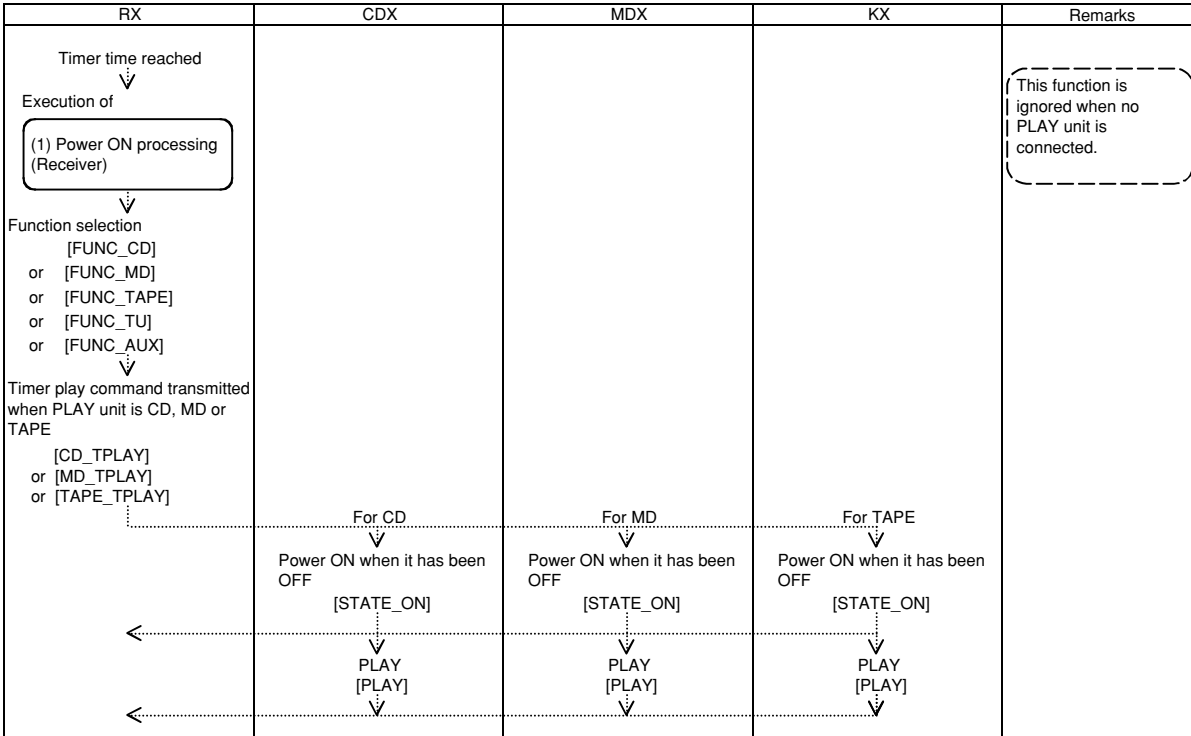
(6) AUTO FUNCTION

各機器をPLAYすると、RXはそれに合わせてFUNCTIONを切り換える。

| RX | CDX | MDX | KX | 備考 |
|--|--------------------------------------|--|--|-----------------------|
| | FUNC≠MDの場合 PLAY中ならばSTOP [STOP] | FUNC≠TAPEの場合 PLAY中ならばSTOP [STOP] | FUNC≠TAPEの場合 PLAY中ならばSTOP [STOP] | |
| FUNC≠PLAY機器の場合 FUNCTION切り換え [FUNC_CD] or [FUNC_MD] or [FUNC_TAPE] or [FUNC_TU] or [FUNC_AUX] | | | | (5) FUNCTION切り換えと同じ機能 |
| | FUNC≠CDの場合 PLAY中ならばSTOP [STOP] | FUNC≠MDの場合 PLAY中ならばSTOP [STOP] | FUNC≠TAPEの場合 PLAY中ならばSTOP [STOP] | |

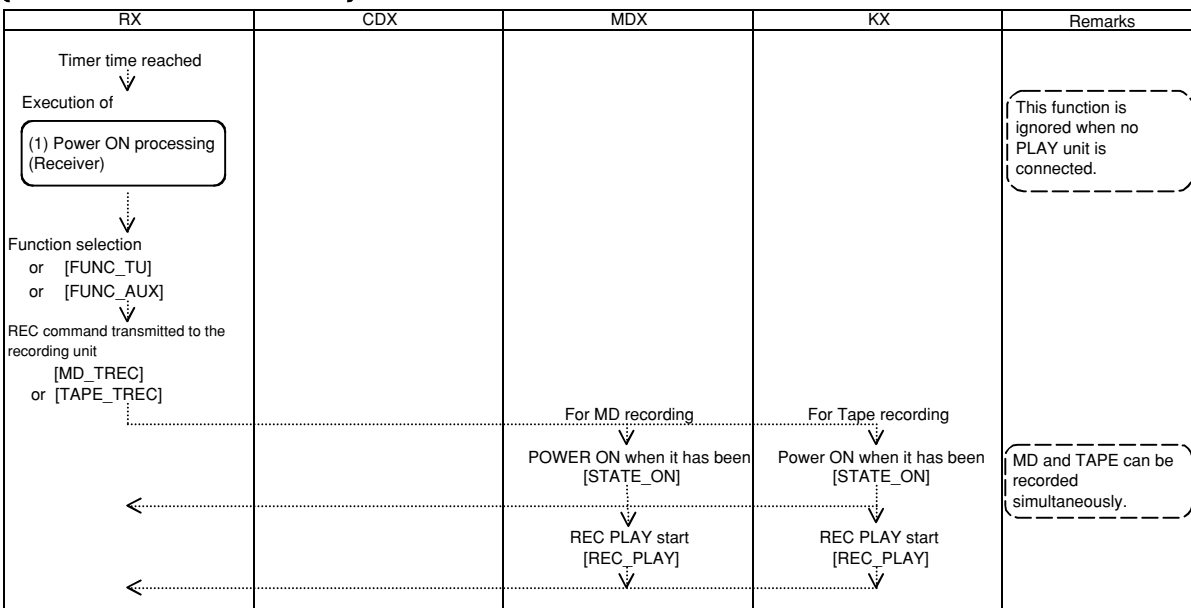
(7)TIMER PLAY

Timer play by built-in timer



(8)TIMER REC

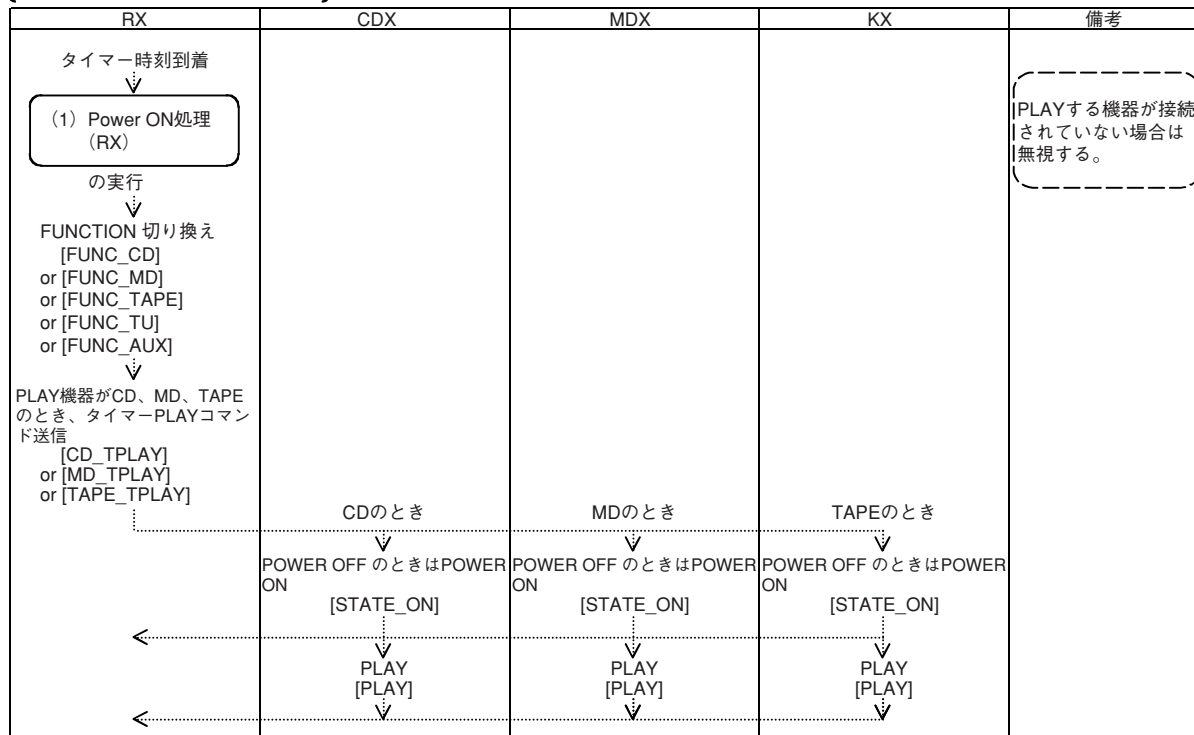
Timer recording by built-in timer



RX-E600/NX-E400

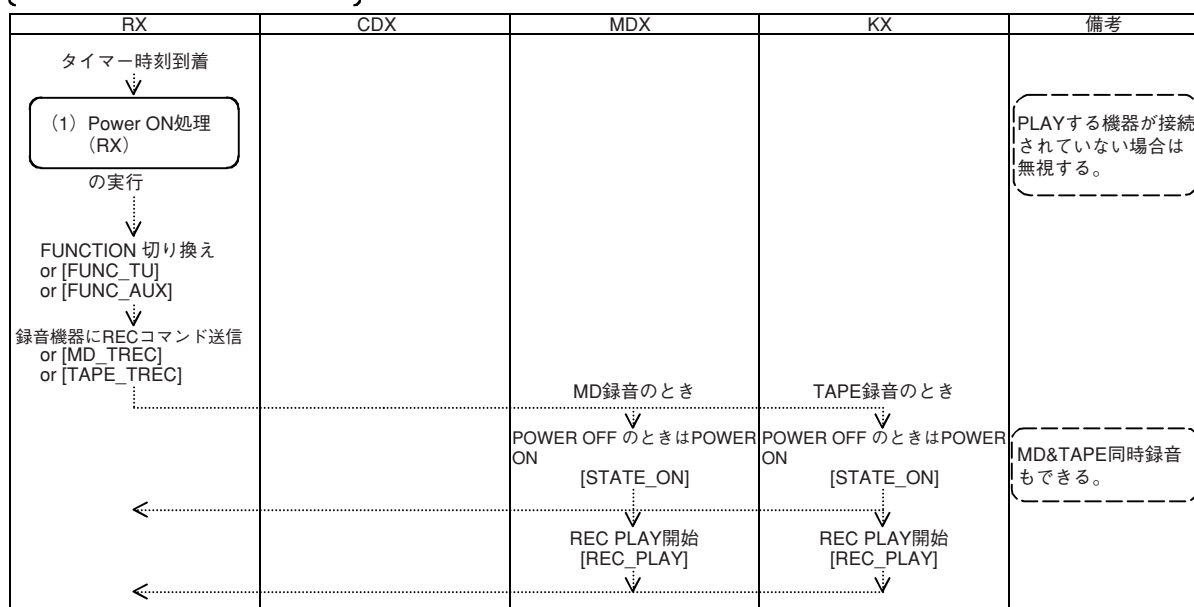
(7) TIMER PLAY

[内蔵タイマーによるタイマープレイ]



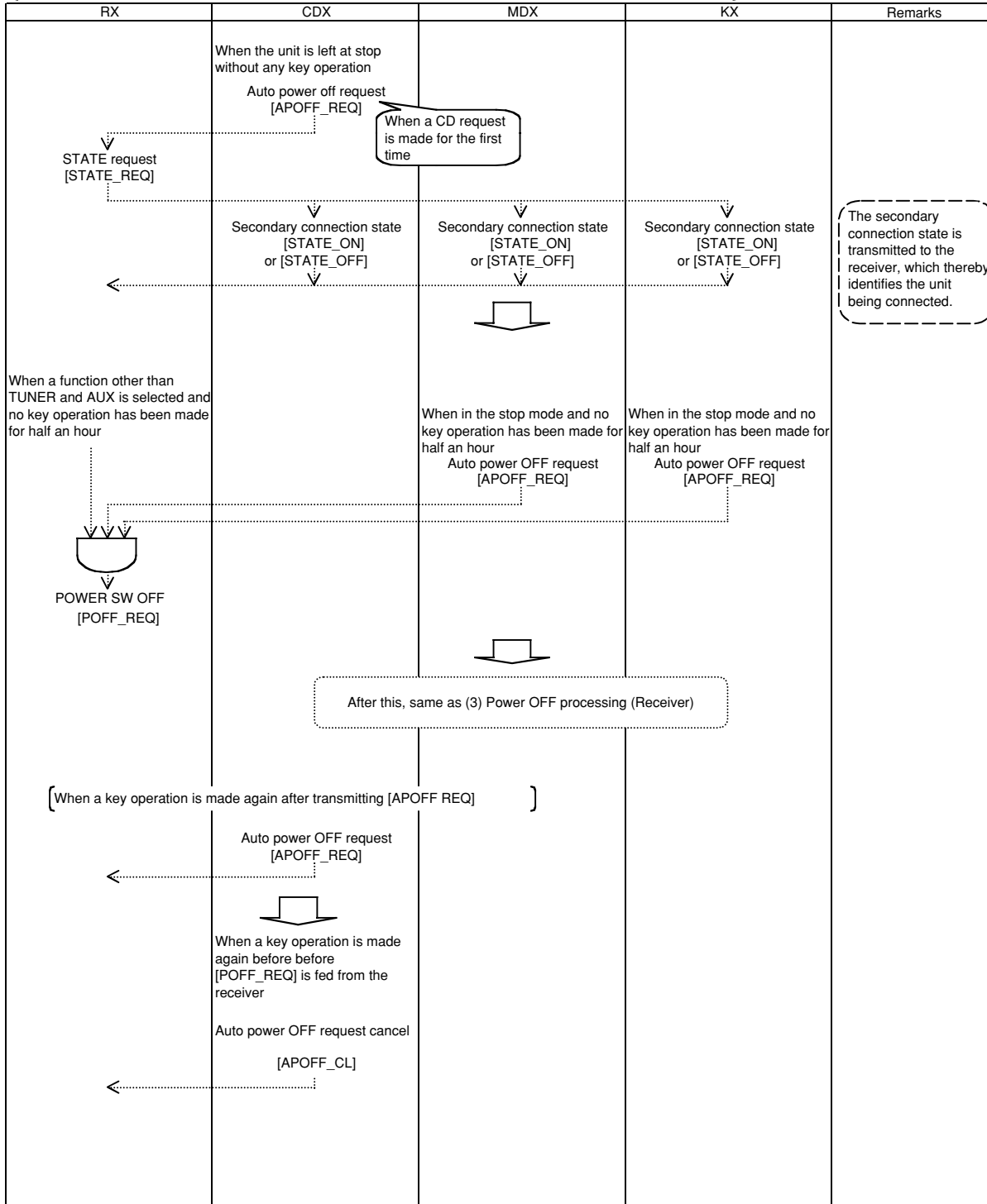
(8) TIMER REC

[内蔵タイマーによるタイマー録音]



(9)AUTO POWER OFF

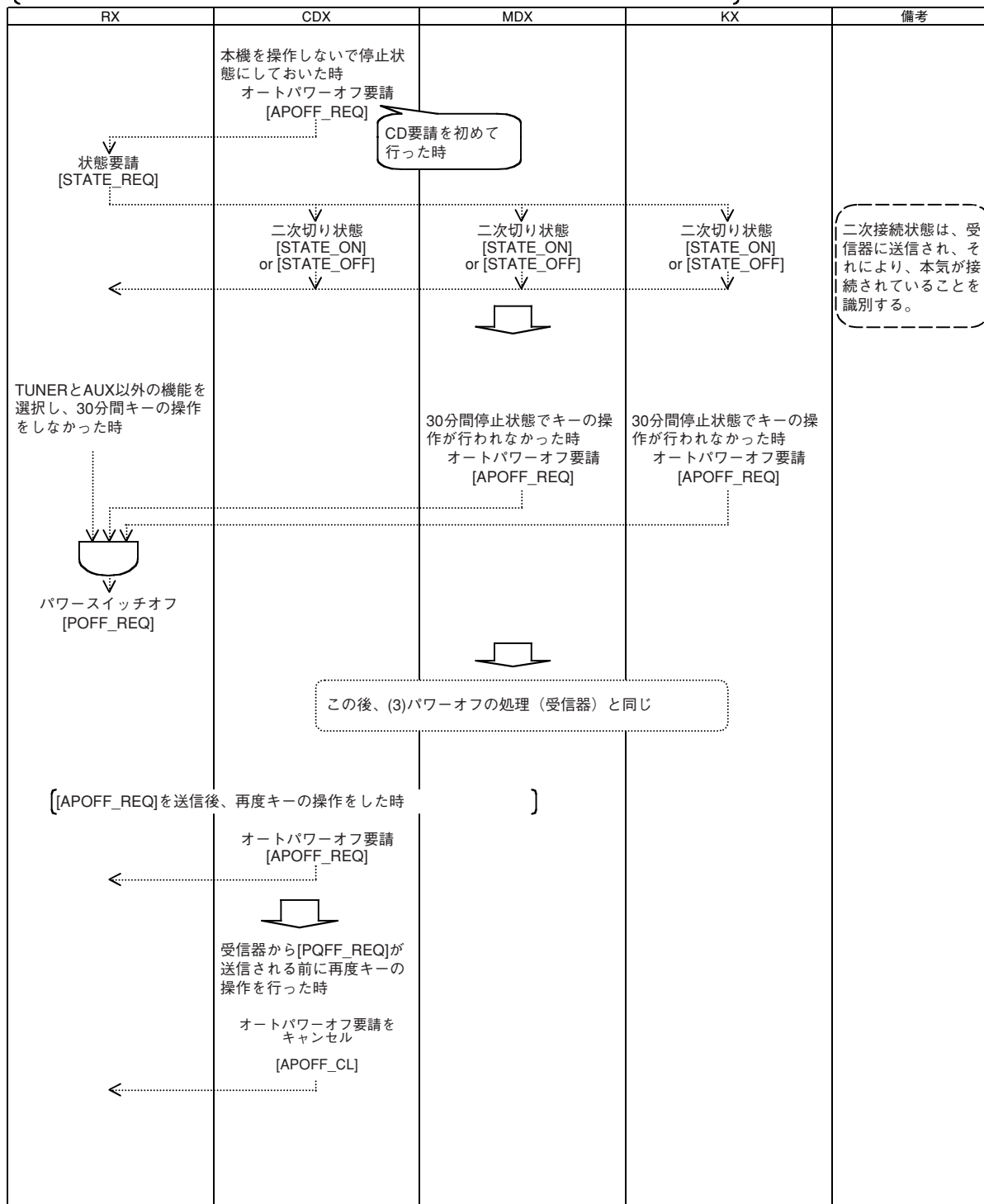
The receiver turns off the power when the unit is left at stop for half an hour without any operation.



RX-E600/NX-E400

(9) AUTO POWER ON

本機を30分間操作しないままにしておくと、受信器が電源をオフにする。



(10)AUTO POWER ON

Function to turn ON the power without using the power switch on the unit other than the receiver

| RX | CDX | MDX | KX | Remarks |
|----|--|--|--|---------|
| | Auto power ON applicable key input ↓ When in the power OFF state Secondary connection state [STATE_ON] | Auto power ON applicable key input ↓ When in the power OFF state Secondary connection state [STATE_ON] | Auto power ON applicable key input ↓ When in the power OFF state Secondary connection state [STATE_ON] | |
| ← | ↓ | ↓ | ↓ | |
| | Operation according to the input key | Operation according to the input key | Operation according to the input key | |

System Control Bus Data Table

| FUNCTION | | RX | CODE | CDX | CODE | MDX | CODE | KX | CODE |
|-------------------------------|--------------------------|------------|-------|---------------|---------------|-----------|----------|-----------|------|
| Secondary connection ON | | | | STATE_ON | 01 | STATE_ON | 01 | STATE_ON | 01 |
| Secondary connection OFF | | | | STATE_OFF | 02 | STATE_OFF | 02 | STATE_OFF | 02 |
| Power OFF request | | POFF_REQ | D0 | | | | | | |
| End of power OFF processing | | | | POFF_OK | 03 | POFF_OK | 03 | POFF_OK | 03 |
| STATE request | | STATE_REQ | D1 | | | | | | |
| Auto power OFF request | | | | APOFF_REQ | 04 | APOFF_REQ | 04 | APOFF_REQ | 04 |
| Auto power OFF cancel | | | | APOFF_CL | 05 | APOFF_CL | 05 | APOFF_CL | 05 |
| Timer operation | Timer PLAY request(CD) | CD_TPLAY | D2 | | | | | | |
| | Timer PLAY request(MD) | MD_TPLAY | D3 | | | | | | |
| | Timer PLAY request(TAPE) | TAPE_TPLAY | D4 | | | | | | |
| | Timer REC request(MD) | MD_TREC | D5 | | | | | | |
| | Timer REC request(TAPE) | TAPE_TREC | D6 | | | | | | |
| FUNCTION selection | | FUNC_CD | D7 | | | | | | |
| | | FUNC_MD | D8 | | | | | | |
| | | FUNC_TAPE | D9 | | | | | | |
| | | FUNC_TU | DA | | | | | | |
| | | FUNC_AUX | DB | | | | | | |
| PLAY operation | | | | PLAY | 06 | PLAY | 06 | PLAY | 06 |
| STOP operation | | | | STOP | 07 | STOP | 07 | STOP | 07 |
| PAUSE | | | | PAUSE | 08 | PAUSE | 08 | | |
| REC PAUSE operation | | | | | | REC_PAUSE | 09 | REC_PAUSE | 09 |
| REC PLAY operation | | | | | | REC_PLAY | 0A | REC_PLAY | 0A |
| Dimmer level | 0 | DIMM_0 | E0 | | | | | | |
| | -1 | DIMM_1 | E1 | | | | | | |
| | -2 | DIMM_2 | E2 | | | | | | |
| | -3 | DIMM_3 | E3 | | | | | | |
| | -4 | DIMM_4 | E4 | | | | | | |
| | -5 | DIMM_5 | E5 | | | | | | |
| | -6 | DIMM_6 | E6 | | | | | | |
| EDIT related operation | EDIT mode | EDIT C→T | EA | | | | | | |
| | | EDIT C→M | EC | | | | | | |
| | | EDIT M→T | EE | | | | | | |
| | | EDIT T→M | EF | | | | | | |
| | Track no change | | | TNO_CHG | 0B | TNO_CHG | 0B | | |
| "A" side tape end | | | | | | | TAPE_END | 0B | |
| CD open wait | | | | OPEN_WAIT | 0C | | | | |
| CD text related operation | Disc name end | | | DNAME_STAT | 10 | | | | |
| | Disc name end | | | DNAME_END | 11 | | | | |
| | Artist name start | | | ANAME_STAT | 12 | | | | |
| | Artist name end | | | ANAME_END | 13 | | | | |
| | Track name start | | | TNAME_STAT | 14 | | | | |
| | Track name end | | | TNAME_END | 15 | | | | |
| | Text data protect | | | PROTECT | 16 | | | | |
| | Reception OK | | | | | GET_OK | 0C | | |
| | Reception NG | | | | | GET_NG | 0D | | |
| | Text data | | | ASCII_CODE | 20 7F | | | | |
| Number of characters(0 to127) | | | COUNT | 80 FF | | | | | |

RX-E600/NX-E400

(10) AUTO POWER ON

RX以外の機器でPOWER SW以外でPOWER ONできる機能

| RX | CDX | MDX | KX | 備考 |
|----|--|--|--|----|
| | AUTO POWER ON対象キー 入力 ↓ POWER OFF状態のとき 二次切り状態 [STATE_ON] | AUTO POWER ON対象キー 入力 ↓ POWER OFF状態のとき 二次切り状態 [STATE_ON] | AUTO POWER ON対象キー 入力 ↓ POWER OFF状態のとき 二次切り状態 [STATE_ON] | |
| ← | ↓ | ↓ | ↓ | |
| | 入力キーに応じた動作 | 入力キーに応じた動作 | 入力キーに応じた動作 | |

RX-E600/NX-E400

システムコントロールバスデータ表

| 機能 | | RX | CODE | CDX | CODE | MDX | CODE | KX | CODE | |
|---------------|-------------------|----------------|-----------|------------|------------|---------------|-----------|-----------|------|--|
| 二次切りON | | | | STATE_ON | 01 | STATE_ON | 01 | STATE_ON | 01 | |
| 二次切りOFF | | | | STATE_OFF | 02 | STATE_OFF | 02 | STATE_OFF | 02 | |
| パワーOFF要求 | | POFF_REQ | D0 | | | | | | | |
| パワーOFF処理の終了 | | | | POFF_OK | 03 | POFF_OK | 03 | POFF_OK | 03 | |
| STATE要求 | | STATE_REQ | D1 | | | | | | | |
| オートパワーオフ要求 | | | | APOFF_REQ | 04 | APOFF_REQ | 04 | APOFF_REQ | 04 | |
| オートパワーオフキャンセル | | | | APOFF_CL | 05 | APOFF_CL | 05 | APOFF_CL | 05 | |
| タイマー動作 | タイマーPLAY要求 (CD) | CD_TPLAY | D2 | | | | | | | |
| | タイマーPLAY要求 (MD) | MD_TPLAY | D3 | | | | | | | |
| | タイマーPLAY要求 (TAPE) | TAPE_TPLAY | D4 | | | | | | | |
| | タイマーREC要求 (MD) | MD_TREC | D5 | | | | | | | |
| | タイマーREC要求 (TAPE) | TAPE_TREC | D6 | | | | | | | |
| FUNCTION切り換え | | FUNC_CD | D7 | | | | | | | |
| | | FUNC_MD | D8 | | | | | | | |
| | | FUNC_TAPE | D9 | | | | | | | |
| | | FUNC_TU | DA | | | | | | | |
| | | FUNC_AUX | DB | | | | | | | |
| PLAY動作 | | | PLAY | 06 | PLAY | 06 | PLAY | 06 | | |
| STOP動作 | | | STOP | 07 | STOP | 07 | STOP | 07 | | |
| PAUSE | | | PAUSE | 08 | PAUSE | 08 | | | | |
| REC PAUSE動作 | | | | | REC_PAUSE | 09 | REC_PAUSE | 09 | | |
| REC PLAY動作 | | | | | REC_PLAY | 0A | REC_PLAY | 0A | | |
| ディーマレベル | 0 | DIMM_0 | E0 | | | | | | | |
| | -1 | DIMM_1 | E1 | | | | | | | |
| | -2 | DIMM_2 | E2 | | | | | | | |
| | -3 | DIMM_3 | E3 | | | | | | | |
| | -4 | DIMM_4 | E4 | | | | | | | |
| | -5 | DIMM_5 | E5 | | | | | | | |
| | -6 | DIMM_6 | E6 | | | | | | | |
| EDIT関連 | EDIT MODE | EDIT C→T | EA | | | | | | | |
| | | EDIT C→M | EC | | | | | | | |
| | | EDIT M→T | EE | | | | | | | |
| | | EDIT T→M | EF | | | | | | | |
| | トラックNo.CHANGE | | | TNO_CHG | 0B | TNO_CHG | 0B | | | |
| A面テープエンド | | | | | | | TAPE_END | 0B | | |
| CD OPEN WAIT | | | OPEN_WAIT | 0C | | | | | | |
| CDテキスト関連 | DISC NAME START | | | DNAME_STAT | 10 | | | | | |
| | DISC NAME END | | | DNAME_END | 11 | | | | | |
| | ARTIST NAME START | | | ANAME_STAT | 12 | | | | | |
| | ARTIST NAME END | | | ANAME_END | 13 | | | | | |
| | TRACK NAME START | | | TNAME_STAT | 14 | | | | | |
| | TRACK NAME END | | | TNAME_END | 15 | | | | | |
| | TEXT DATA PROTECT | | | PROTECT | 16 | | | | | |
| | 受信OK | | | | | GET_OK | 0C | | | |
| | 受信NG | | | | | GET_NG | 0D | | | |
| | TEXT DATA | | | | ASCII_CODE | 20 7F | | | | |
| | | | | | | 80 FF | | | | |
| | | 文字データ数 (0~127) | | | COUNT | | | | | |

RX-E600/NX-E400

| Function | RX | CODE | CDX | CODE | MDX | CODE | KX | CODE |
|----------------|-----------------------|---------------------|---------------|---------------|-----|------|----|------|
| Remote control | CD | CD_STOP | | 80 | | | | |
| | | CD_PLAY/PAUSE | | 81 | | | | |
| | | CD_EJECT | | 82 | | | | |
| | | CD_SKIP+ | | 83 | | | | |
| | | CD_SKIP- | | 84 | | | | |
| | | SEARCH+ | | 85 | | | | |
| | | SEARCH- | | 86 | | | | |
| | | SEACH_END | | 87 | | | | |
| | | CD_RANDOM | | 88 | | | | |
| | | CD_TIME | | 89 | | | | |
| | | CD_PRG | | 8A | | | | |
| | | CD_RPT | | 8B | | | | |
| | | TAPE | | 8C | | | | |
| | | PEAK SEARCH | | 8D | | | | |
| | | CD_0 | | 90 | | | | |
| | | CD_1 | | 91 | | | | |
| | | CD_2 | | 92 | | | | |
| | | CD_3 | | 93 | | | | |
| | | CD_4 | | 94 | | | | |
| | | CD_5 | | 95 | | | | |
| | CD_6 | | 96 | | | | | |
| | CD_7 | | 97 | | | | | |
| | CD_8 | | 98 | | | | | |
| | CD_9 | | 99 | | | | | |
| | CD_10 | | 9A | | | | | |
| | MD | MD_STOP | | A0 | | | | |
| | | MD_PLAY/PAUSE | | A1 | | | | |
| | | MD_EJECT | | A2 | | | | |
| | | MD_SKIP+ | | A3 | | | | |
| | | MD_SKIP- | | A4 | | | | |
| | | SEARCH+ | | A5 | | | | |
| | | SEARCH- | | A6 | | | | |
| | | SEACH_END | | A7 | | | | |
| | | MD_RANDOM | | A8 | | | | |
| | | MD_TIME | | A9 | | | | |
| | | MD_PRG | | AA | | | | |
| MD_RPT | | | AB | | | | | |
| MD_REC PAUSE | | | AC | | | | | |
| MD_0 | | | B0 | | | | | |
| MD_1 | | | B1 | | | | | |
| MD_2 | | | B2 | | | | | |
| MD_3 | | | B3 | | | | | |
| MD_4 | | | B4 | | | | | |
| MD_5 | | | B5 | | | | | |
| MD_6 | | | B6 | | | | | |
| MD_7 | | B7 | | | | | | |
| MD_8 | | B8 | | | | | | |
| MD_9 | | B9 | | | | | | |
| MD_10 | | BA | | | | | | |
| MD_+100 | | BB | | | | | | |
| TAPE | TAPE_STOP | | C0 | | | | | |
| | TAPE_PLAY | | C1 | | | | | |
| | TAPE_EJECT | | C2 | | | | | |
| | TAPE_FF | | C3 | | | | | |
| | TAPE_REW | | C4 | | | | | |
| | TAPE_PAUSE | | C5 | | | | | |
| | TAPE_DIR | | C6 | | | | | |

| 機能 | RX | CODE | CDX | CODE | MDX | CODE | KX | CODE | | |
|--------------|------|-----------------------|---------------|---------------------|---------------|------|----|------|--|--|
| リモコン | CD | CD_STOP | 80 | | | | | | | |
| | | CD_PLAY/PAUSE | 81 | | | | | | | |
| | | CD_EJECT | 82 | | | | | | | |
| | | CD_SKIP+ | 83 | | | | | | | |
| | | CD_SKIP- | 84 | | | | | | | |
| | | SEARCH+ | 85 | | | | | | | |
| | | SEARCH- | 86 | | | | | | | |
| | | SEACH_END | 87 | | | | | | | |
| | | CD_RANDOM | 88 | | | | | | | |
| | | CD_TIME | 89 | | | | | | | |
| | | CD_PRG | 8A | | | | | | | |
| | | CD_RPT | 8B | | | | | | | |
| | | TAPE | 8C | | | | | | | |
| | | PEAK_SEARCH | 8D | | | | | | | |
| | | CD_0 | 90 | | | | | | | |
| | | CD_1 | 91 | | | | | | | |
| | | CD_2 | 92 | | | | | | | |
| | | CD_3 | 93 | | | | | | | |
| | | CD_4 | 94 | | | | | | | |
| | | CD_5 | 95 | | | | | | | |
| | | CD_6 | 96 | | | | | | | |
| | | CD_7 | 97 | | | | | | | |
| | | CD_8 | 98 | | | | | | | |
| | | CD_9 | 99 | | | | | | | |
| | | CD_10 | 9A | | | | | | | |
| | | リモコン | MD | MD_STOP | A0 | | | | | |
| | | | | MD_PLAY/PAUSE | A1 | | | | | |
| | | | | MD_EJECT | A2 | | | | | |
| | | | | MD_SKIP+ | A3 | | | | | |
| | | | | MD_SKIP- | A4 | | | | | |
| | | | | SEARCH+ | A5 | | | | | |
| | | | | SEARCH- | A6 | | | | | |
| | | | | SEACH_END | A7 | | | | | |
| | | | | MD_RANDOM | A8 | | | | | |
| | | | | MD_TIME | A9 | | | | | |
| | | | | MD_PRG | AA | | | | | |
| MD_RPT | AB | | | | | | | | | |
| MD_REC PAUSE | AC | | | | | | | | | |
| MD_0 | B0 | | | | | | | | | |
| MD_1 | B1 | | | | | | | | | |
| MD_2 | B2 | | | | | | | | | |
| MD_3 | B3 | | | | | | | | | |
| MD_4 | B4 | | | | | | | | | |
| MD_5 | B5 | | | | | | | | | |
| MD_6 | B6 | | | | | | | | | |
| MD_7 | B7 | | | | | | | | | |
| MD_8 | B8 | | | | | | | | | |
| MD_9 | B9 | | | | | | | | | |
| MD_10 | BA | | | | | | | | | |
| MD_+100 | BB | | | | | | | | | |
| リモコン | TAPE | TAPE_STOP | C0 | | | | | | | |
| | | TAPE_PLAY | C1 | | | | | | | |
| | | TAPE_EJECT | C2 | | | | | | | |
| | | TAPE_FF | C3 | | | | | | | |
| | | TAPE_REW | C4 | | | | | | | |
| | | TAPE_PAUSE | C5 | | | | | | | |
| | | TAPE_DIR | C6 | | | | | | | |

Reception status of operation switches during recording

(* = AUX or TUNER)

| Unit | SW | EDIT RECORDING | | | | SYNCHRONOUS or MANUAL RECORDING | | | | | | | |
|------|----------|----------------|-----|-----|-----|---------------------------------|-----|-----|-----|-------|-----|-----|-------|
| | | C→T | C→M | M→T | T→M | C→T | C→M | M→T | T→M | C→T,M | *→M | *→T | *→T,M |
| RX | POWER | O | O | O | O | O | O | O | O | O | O | O | O |
| | FUNCTION | X | X | X | X | X | X | X | X | X | X | X | X |
| CD | POWER | O | O | O | O | O | O | O | O | O | O | O | O |
| | EJECT | X | X | O | O | O | O | O | O | O | O | O | O |
| | PLAY | X | X | X | X | O | O | X | X | O | X | X | X |
| | STOP | O | O | X | X | O | O | X | X | O | X | X | X |
| | SKIP | X | X | X | X | O | O | X | X | O | X | X | X |
| | SEARCH | X | X | X | X | O | O | X | X | O | X | X | X |
| MD | POWER | O | O | O | O | O | O | O | O | O | O | O | O |
| | EJECT | O | X | X | X | O | O | O | O | O | O | O | O |
| | PLAY | X | X | X | X | X | X | O | X | X | X | X | X |
| | STOP | X | O | O | O | X | O | O | O | O | O | X | O |
| | SKIP | X | X | X | X | X | X | O | X | X | X | X | X |
| | SEARCH | X | X | X | X | X | X | O | X | X | X | X | X |
| | REC | X | X | X | X | X | O | X | O | O | O | X | O |
| TAPE | POWER | O | O | O | O | O | O | O | O | O | O | O | O |
| | EJECT | X | O | X | X | O | O | O | O | O | O | O | O |
| | PLAY | X | X | X | X | X | X | X | O | X | X | X | X |
| | STOP | O | O | O | O | O | O | O | O | O | O | O | O |
| | FF/REW | X | O | X | X | O | O | O | O | O | O | O | O |
| | REC | X | X | X | X | O | X | O | X | O | X | O | O |

Principle of switch rec operation reception

- The POWER SW has priority regardless of any other conditions.
- During EDIT recording, no switch operation other than discontinuing the EDIT function (STOP SW of recording and reproduction units) is received. However, if it is clear that the switch operation would not affect the EDIT function, it will be accepted.
- During SYNCHRONOUS or MANUAL recording, the switch operation of the recording and reproduction units is accepted but switch operation of other units that would affect recording are not accepted.

AUTO POWER ON RECEPTION SW

(This switch can turn on the power instead of the POWER SW when the secondary switch has been turned off.)

| Unit | SW |
|------|-------|
| CD | EJECT |
| | PLAY |
| MD | EJECT |
| | PLAY |
| TAPE | EJECT |
| | PLAY |

録音動作中のオペレーションSW 受付表

(*=AUX or TUNER)

| 機器 | SW | EDIT録音 | | | | シンクロ or MANUAL録音 | | | | | | | |
|------|----------|--------|-----|-----|-----|------------------|-----|-----|-----|--------|-----|-----|--------|
| | | C→T | C→M | M→T | T→M | C→T | C→M | M→T | T→M | C→T, M | *→M | *→T | *→T, M |
| RX | POWER | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | FUNCTION | X | X | X | X | X | X | X | X | X | X | X | X |
| CD | POWER | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | EJECT | X | X | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | PLAY | X | X | X | X | ○ | ○ | X | X | ○ | X | X | X |
| | STOP | ○ | ○ | X | X | ○ | ○ | X | X | ○ | X | X | X |
| | SKIP | X | X | X | X | ○ | ○ | X | X | ○ | X | X | X |
| | SEARCH | X | X | X | X | ○ | ○ | X | X | ○ | X | X | X |
| MD | POWER | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | EJECT | ○ | X | X | X | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | PLAY | X | X | X | X | X | X | ○ | X | X | X | X | X |
| | STOP | X | ○ | ○ | ○ | X | ○ | ○ | ○ | ○ | ○ | X | ○ |
| | SKIP | X | X | X | X | X | X | ○ | X | X | X | X | X |
| | SEARCH | X | X | X | X | X | X | ○ | X | X | X | X | X |
| | REC | X | X | X | X | X | ○ | X | ○ | ○ | ○ | X | ○ |
| TAPE | POWER | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | EJECT | X | ○ | X | X | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | PLAY | X | X | X | X | X | X | ○ | ○ | X | X | X | X |
| | STOP | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | FF/REW | X | ○ | X | X | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | REC | X | X | X | X | ○ | X | X | X | ○ | X | ○ | ○ |

基本的な考え方

- ・ POWER SWはすべての状況に関わらず、最優先される。
- ・ EDIT録音中は故意にEDITを終了させるSW(録音、再生機器のSTOP SW)以外は受け付けない。
ただし、明らかにEDIT動作を阻害しないSWは受け付ける。
- ・ シンクロおよびMANUAL録音中は、録音、再生機器のSWは受け付けるが、他の機器で録音を阻害するSWは受け付けない。

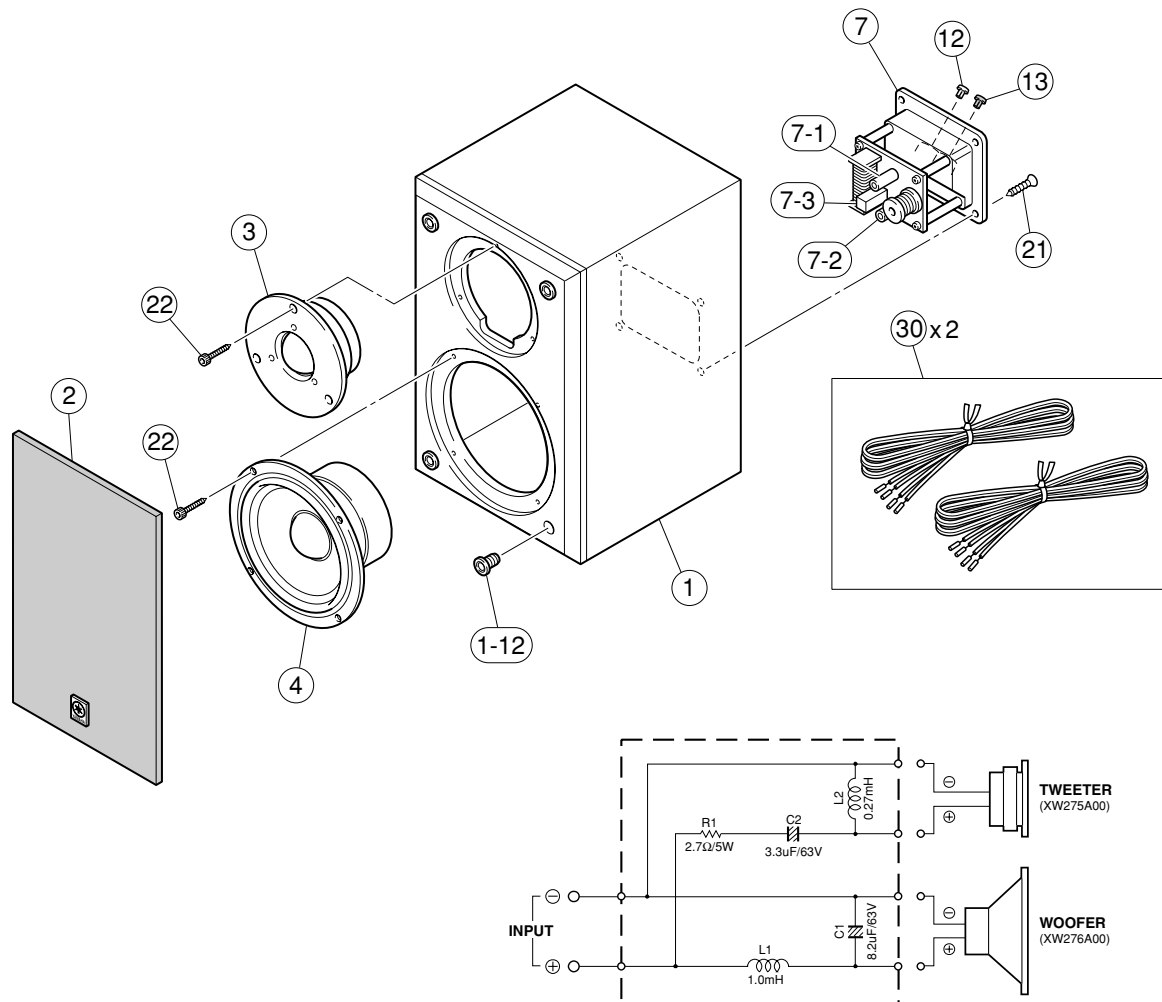
AUTO POWER ON受付SW

(二次切りがOFF状態のとき、POWER SW以外で電源ONができるSW)

| 機器 | SW |
|------|-------|
| CD | EJECT |
| | PLAY |
| MD | EJECT |
| | PLAY |
| TAPE | EJECT |
| | PLAY |

RX-E600/NX-E400

NX-E400

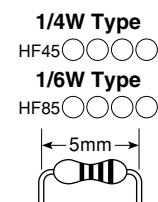
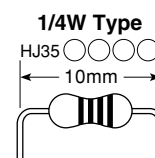


| Schm Ref. | PART NO. | Description | Remarks | Markets | 部品名 | Rank |
|-----------|----------|------------------------------|----------------|---------|------------------|------|
| * 1 | V9509300 | CABINET ASS'Y | | BL | キャビネットASSY | |
| 1-12 | CB605250 | HOLDER | | | ホルダー | 03 |
| * 2 | V9509700 | FRONT GRILLE ASS'Y | | BL | フロントグリルASSY | |
| 3 | XW275A00 | DRIVER TWEETER | 2.5cm 5Ω 40W | | スピーカーユニット | 10 |
| 4 | XW276A00 | DRIVER WOOFER | 13cm 6Ω 40W | | スピーカーユニット | 12 |
| * 7 | V9509800 | 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 | |
| 12 | V5361400 | TERMINAL CAP | S06E RED | | ターミナルキャップ | 01 |
| 13 | V5361500 | TERMINAL CAP | S06E BLACK | | ターミナルキャップ | 01 |
| * 21 | V9506000 | FLAT HEAD WOOD SCREW | 3.5x20 MFZN2BL | | 十皿木ネジ | |
| * 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

Parts List for Carbon Resistors

| Value | 1/4W Type Part No. | 1/6W Type Part No. | Value | 1/4W Type Part No. | 1/6W Type Part No. |
|--------|--------------------|--------------------|--------|--------------------|--------------------|
| 1.0 Ω | HJ35 3100 | HF85 3100 | 10 kΩ | HF45 7100 | HF45 7100 |
| 1.8 Ω | HJ35 3180 | * | 11 kΩ | HF45 7110 | HF45 7110 |
| 2.2 Ω | HJ35 3220 | HF85 3220 | 12 kΩ | HJ35 7120 | HF85 7120 |
| 3.3 Ω | HJ35 3330 | HF85 3330 | 13 kΩ | HF45 7130 | HF45 7130 |
| 4.7 Ω | HJ35 3470 | HF85 3470 | 15 kΩ | HF45 7150 | HF45 7150 |
| 5.6 Ω | HJ35 3560 | HF85 3560 | 18 kΩ | HF45 7180 | HF45 7180 |
| 10 Ω | HF45 4100 | HF45 4100 | 22 kΩ | HF45 7220 | HF45 7220 |
| 15 Ω | HJ35 4150 | HF85 4150 | 24 kΩ | HF45 7240 | HF45 7240 |
| 22 Ω | HF45 4220 | HF45 4220 | 27 kΩ | HJ35 7270 | HF85 7270 |
| 27 Ω | HJ35 4270 | HF85 4270 | 30 kΩ | HF45 7300 | HF45 7300 |
| 33 Ω | HF45 4330 | HF45 4330 | 33 kΩ | HF45 7330 | HF45 7330 |
| 39 Ω | HJ35 4470 | HF85 4390 | 36 kΩ | HF45 7360 | HF45 7360 |
| 47 Ω | HF45 4470 | HF45 4470 | 39 kΩ | HF45 7390 | HF45 7390 |
| 56 Ω | HF45 4560 | HF45 4560 | 47 kΩ | HF45 7470 | HF45 7470 |
| 68 Ω | HF45 4680 | HF45 4680 | 51 kΩ | HF45 7510 | HF45 7510 |
| 75 Ω | HF45 4750 | HF45 4750 | 56 kΩ | HF45 7560 | HF45 7560 |
| 82 Ω | HF45 4820 | HF45 4820 | 62 kΩ | HF45 7620 | HF45 7620 |
| 91 Ω | HF45 4910 | HF45 4910 | 68 kΩ | HF45 7680 | HF45 7680 |
| 100 Ω | HF45 5100 | HF45 5100 | 82 kΩ | HF45 7820 | HF45 7820 |
| 110 Ω | HJ35 5110 | HF85 5110 | 91 kΩ | HF45 7910 | HF45 7910 |
| 120 Ω | HF45 5120 | HF45 5120 | 100 kΩ | HF45 8100 | HF45 8100 |
| 150 Ω | HF45 5150 | HF45 5150 | 110 kΩ | HF45 8110 | HF45 8110 |
| 160 Ω | HJ35 5160 | * | 120 kΩ | HF45 8120 | HF45 8120 |
| 180 Ω | HF45 5180 | HF45 5180 | 150 kΩ | HF45 8150 | HF45 8150 |
| 200 Ω | HF45 5200 | HF45 5200 | 180 kΩ | HF45 8180 | HF45 8180 |
| 220 Ω | HF45 5220 | HF45 5220 | 220 kΩ | HJ35 8220 | HF85 8220 |
| 270 Ω | HF45 5270 | HF45 5270 | 270 kΩ | HF45 8270 | HF45 8270 |
| 330 Ω | HF45 5330 | HF45 5330 | 300 kΩ | HF45 8300 | HF45 8300 |
| 390 Ω | HF45 5390 | HF45 5390 | 330 kΩ | HF45 8330 | HF45 8330 |
| 430 Ω | HF45 5430 | HF45 5430 | 390 kΩ | HJ35 8390 | HF85 8390 |
| 470 Ω | HF45 5470 | HF45 5470 | 470 kΩ | HF45 8470 | HF45 8470 |
| 510 Ω | HF45 5510 | HF45 5510 | 560 kΩ | HJ35 8560 | HF85 8560 |
| 560 Ω | HF45 5560 | HF45 5560 | 680 kΩ | HJ35 8680 | HF85 8680 |
| 680 Ω | HF45 5680 | HF45 5680 | 820 kΩ | HJ35 8820 | HF85 8820 |
| 820 Ω | HF45 5820 | HF45 5820 | 1.0 MΩ | HF45 9100 | HF45 9100 |
| 910 Ω | HF45 5910 | HF45 5910 | 1.2 MΩ | HJ35 9120 | * |
| 1.0 kΩ | HF45 6100 | HF45 6100 | 1.5 MΩ | HJ35 9150 | HF85 9150 |
| 1.2 kΩ | HF45 6120 | HF45 6120 | 1.8 MΩ | HJ35 9180 | HF85 9180 |
| 1.5 kΩ | HF45 6150 | HF45 6150 | 2.2 MΩ | HJ35 9220 | HF85 9220 |
| 1.8 kΩ | HF45 6180 | HF45 6180 | 3.3 MΩ | HJ35 9330 | HF85 9330 |
| 2.0 kΩ | HJ35 6200 | HF85 6200 | 3.9 MΩ | HJ35 9390 | * |
| 2.2 kΩ | HF45 6220 | HF45 6220 | 4.7 MΩ | HJ35 9470 | HF85 9470 |
| 2.4 kΩ | HJ35 6240 | HF85 6240 | | | |
| 2.7 kΩ | HF45 6270 | HF45 6270 | | | |
| 3.0 kΩ | HF45 6300 | HF45 6300 | | | |
| 3.3 kΩ | HF45 6330 | HF45 6330 | | | |
| 3.6 kΩ | HJ35 6360 | HF85 6360 | | | |
| 3.9 kΩ | HF45 6390 | HF45 6390 | | | |
| 4.7 kΩ | HF45 6470 | HF45 6470 | | | |
| 5.1 kΩ | HF45 6510 | HF45 6510 | | | |
| 5.6 kΩ | HF45 6560 | HF45 6560 | | | |
| 6.8 kΩ | HF45 6680 | HF45 6680 | | | |
| 8.2 kΩ | HF45 6820 | HF45 6820 | | | |
| 9.1 kΩ | HF45 6910 | HF45 6910 | | | |



* : Not available

RX-E600/NX-E400



YAMAHA
