# AV RECEIVER

# RX-A1010/RX-V1071

## SERVICE MANUAL

**CAUTION:** When the DIGITAL P.C.B. or IC83 on DIGITAL P.C.B. is replaced, this unit will not operate properly without additional setting.
In such a case, report the serial number of this unit to the following e-mail address.
Yamaha Corporation will reply providing the setting procedure to make this unit operate properly.

**注意：** DIGITAL P.C.B. または DIGITAL P.C.B. の IC83 を交換すると本機が正常に動作しなくなり、正常動作のための追加設定が必要になります。
そのような場合には本機のシリアルナンバーを下記の E メールアドレスへご連絡ください。
折り返し、本機が正常に動作するための追加設定方法をご連絡します。

***E-mail: ycav-ysiss@gmx.yamaha.com***

### 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.

## ■ CONTENTS


TO SERVICE PERSONNEL .....2
FRONT PANELS .....3–4
REAR PANELS .....4–8
REMOTE CONTROL PANELS .....9
SPECIFICATIONS / 参考仕様 .....10–16
INTERNAL VIEW .....17
SERVICE PRECAUTIONS / サービス時の注意事項 .....17
DISASSEMBLY PROCEDURES / 分解手順 .....18–21
UPDATING FIRMWARE / ファームウェアのアップデート .....22–23
SELF-DIAGNOSTIC FUNCTION / ダイアグ（自己診断機能）.....24–68
POWER AMPLIFIER ADJUSTMENT / パワーアンプ調整 .....69–70
DISPLAY DATA .....71–73
IC DATA .....74–88
BLOCK DIAGRAMS .....89–93
PRINTED CIRCUIT BOARDS .....94–119
PIN CONNECTION DIAGRAMS .....120
SCHEMATIC DIAGRAMS .....121–136
REPLACEMENT PARTS LIST .....137–164
REMOTE CONTROL .....165–167
ADVANCED SETUP .....168
システム設定を変更する .....169–170
FIRMWARE UPDATING PROCEDURE .....171–182
ファームウェア更新手順 .....183–188



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.



101220



Copyright © 2011 YAMAHA CORPORATION All rights reserved.
This manual is copyrighted by YAMAHA and may not be copied or redistributed either in print or electronically without permission.

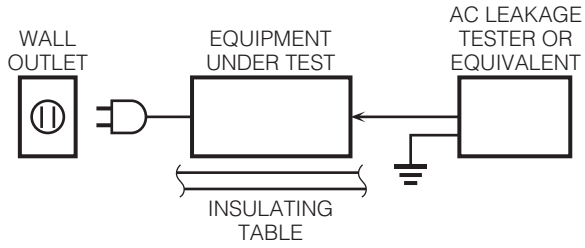


YAMAHA
YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan
'11.09

## ■ 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 ohms shunted by 0.15 µF.




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




**For U model**

**"CAUTION"**

"F2003: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 10A, 125V FUSE."

**For C model**

**CAUTION**

F2003: REPLACE WITH SAME TYPE 10A, 125V FUSE.

**ATTENTION**

F2003: UTILISER UN FUSIBLE DE RECHANGE DE MÉME TYPE DE 10A, 125V.

## WARNING: CHEMICAL CONTENT NOTICE!

This product contains chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

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

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

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

## About lead free solder / 無鉛ハンダについて

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

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

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

**Caution:**

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

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

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

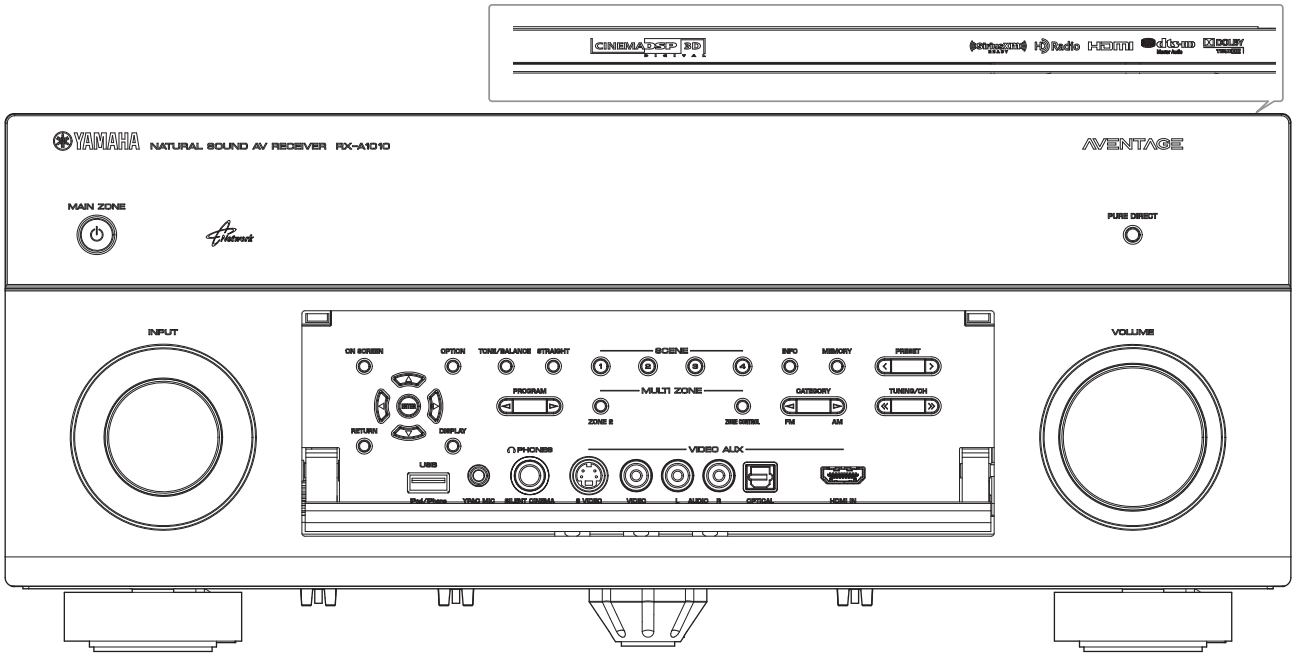
- Sn+Ag+Cu（錫 + 銀 + 銅）
- Sn+Cu（錫 + 銅）
- Sn+Zn+Bi（錫 + 亜鉛 + ビスマス）

**注意：**

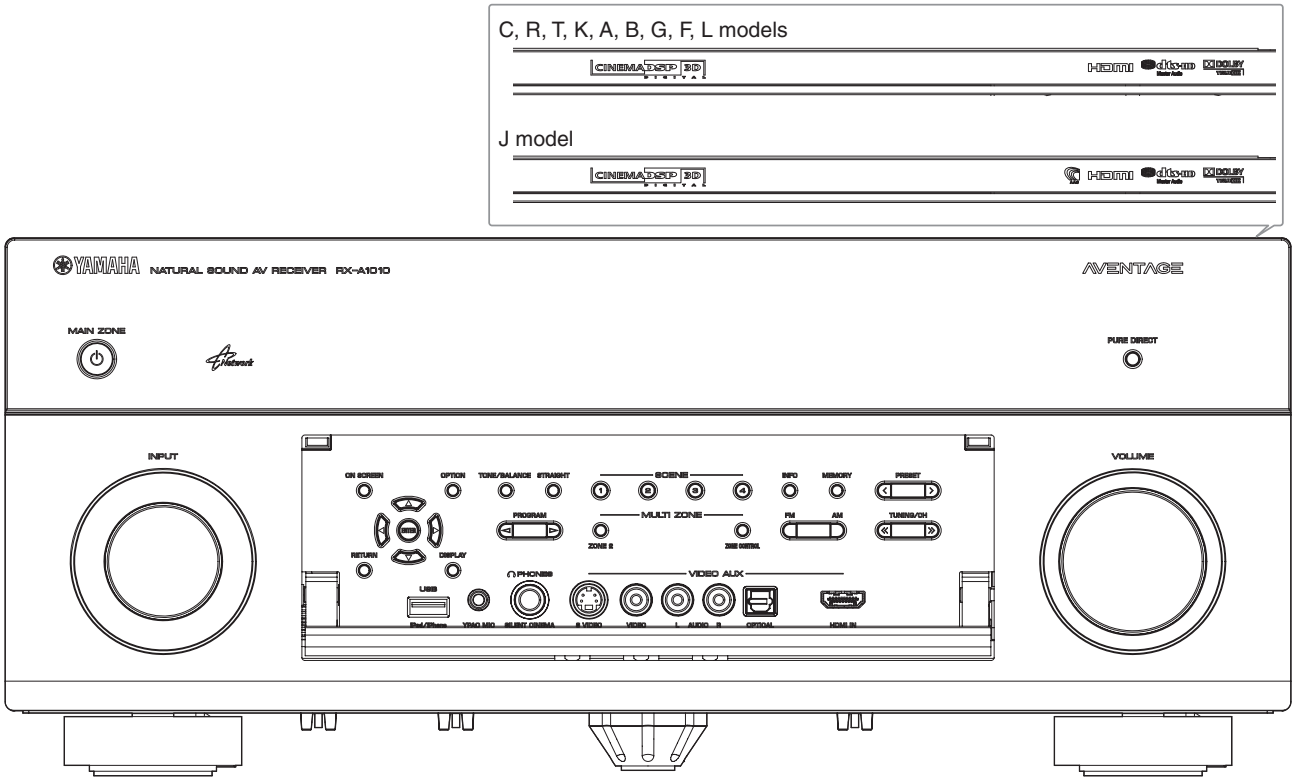
無鉛ハンダの融点温度は通常の鉛入りハンダに比べ 30 ～ 40℃程度高くなっていますので、それぞれのハンダに合ったハンダごてをご使用ください。

# ■ FRONT PANELS

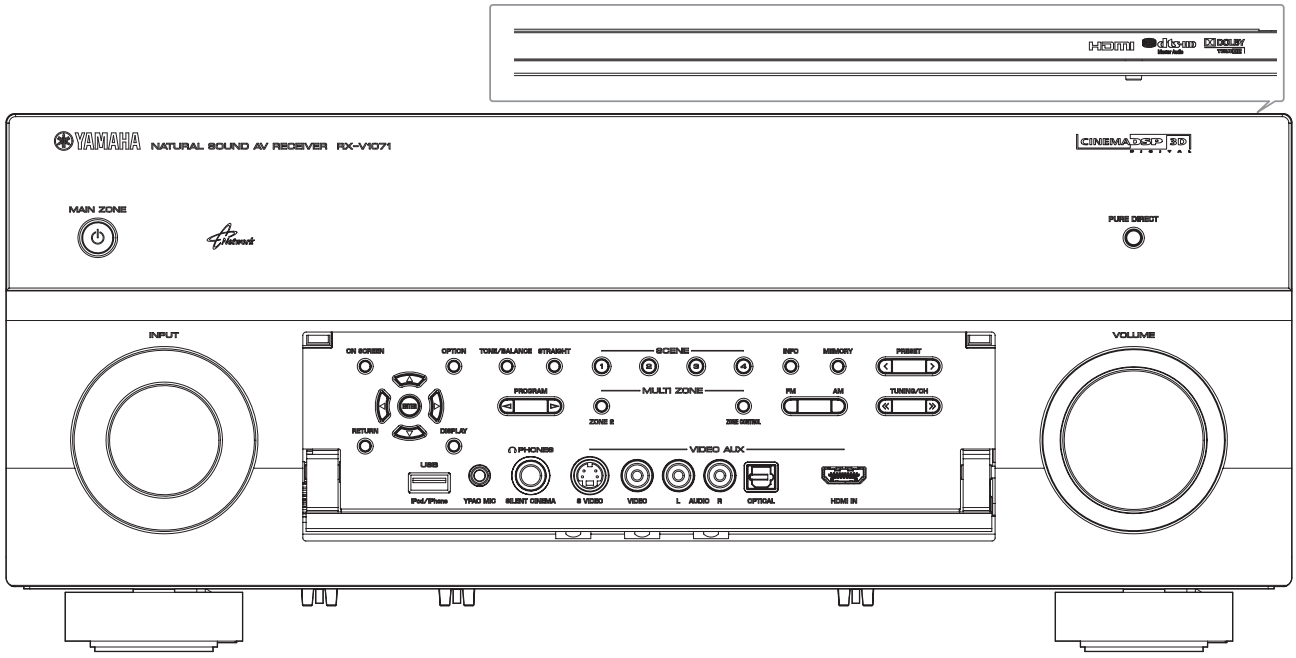
**RX-A1010 (U model)**




**RX-A1010 (C, R, T, K, A, B, G, F, L, J models)**

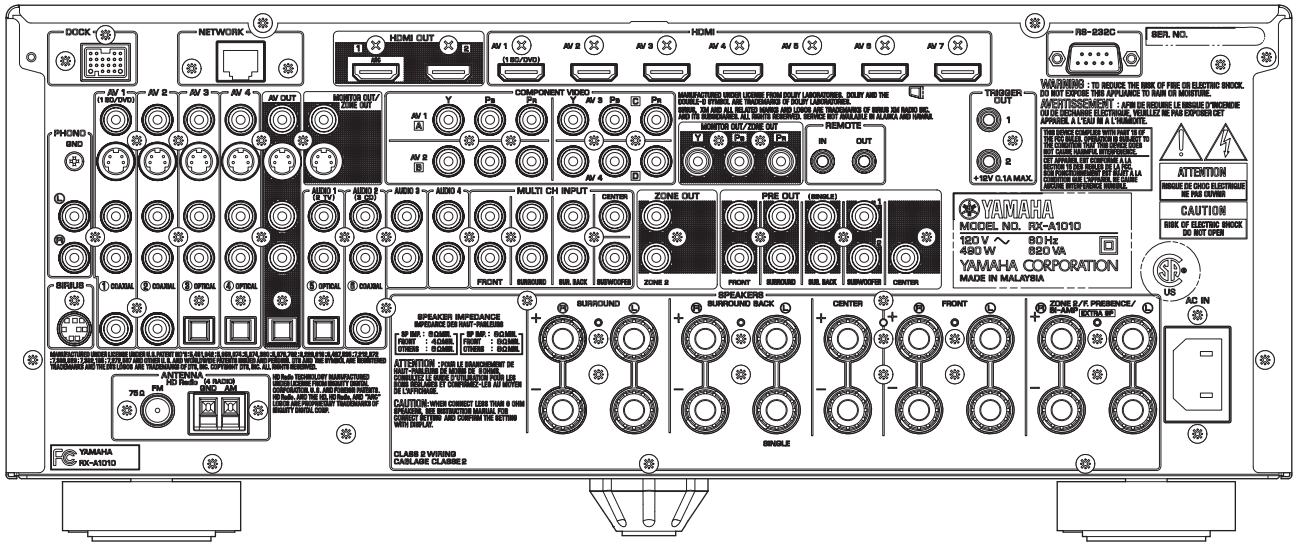


**RX-V1071 (C, T, A, G, F models)**

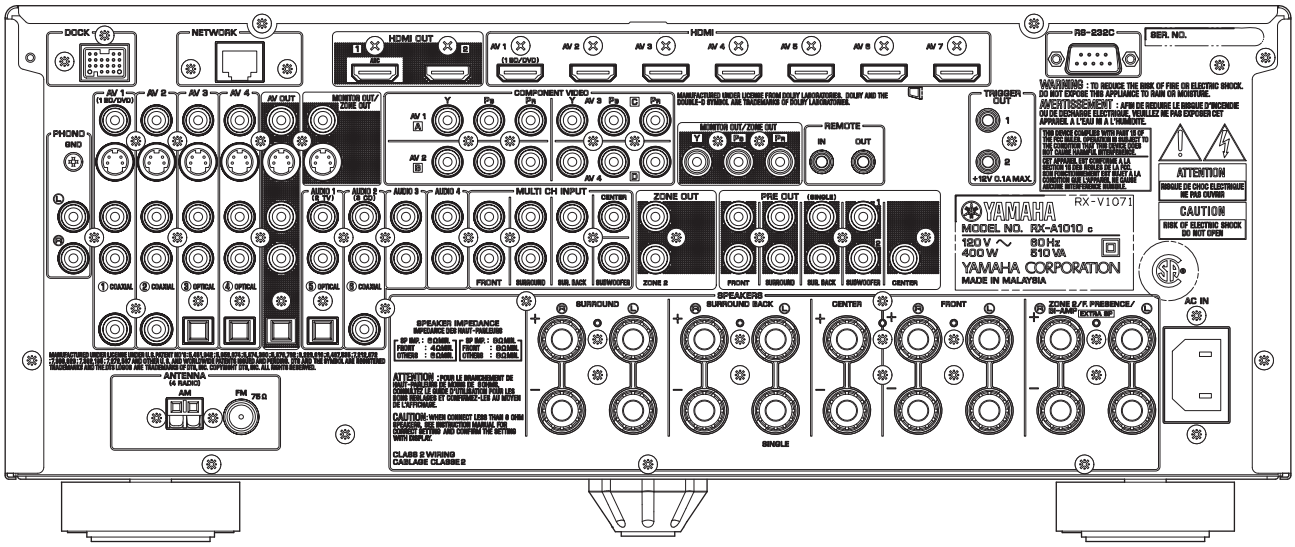



## ■ REAR PANELS

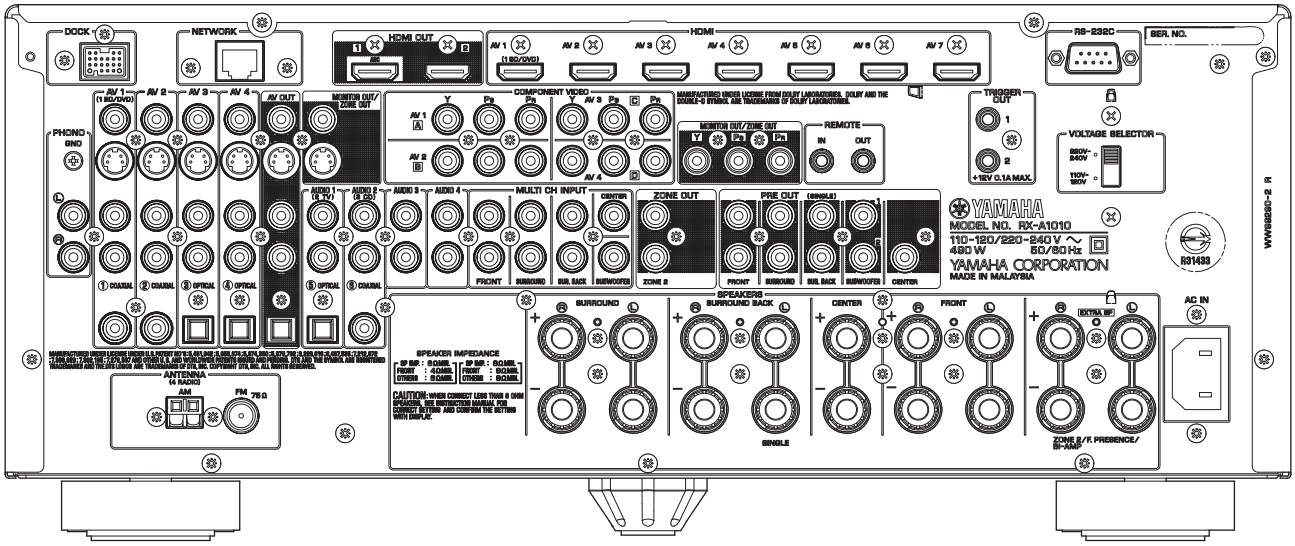
**RX-A1010 (U model)**



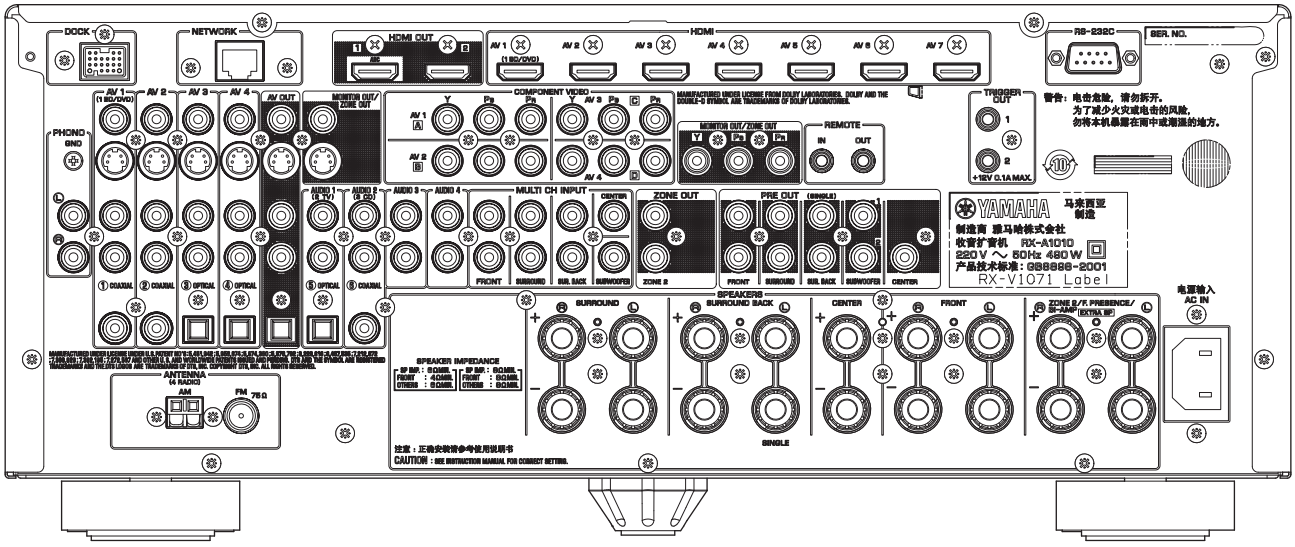
**RX-A1010 (C model)**



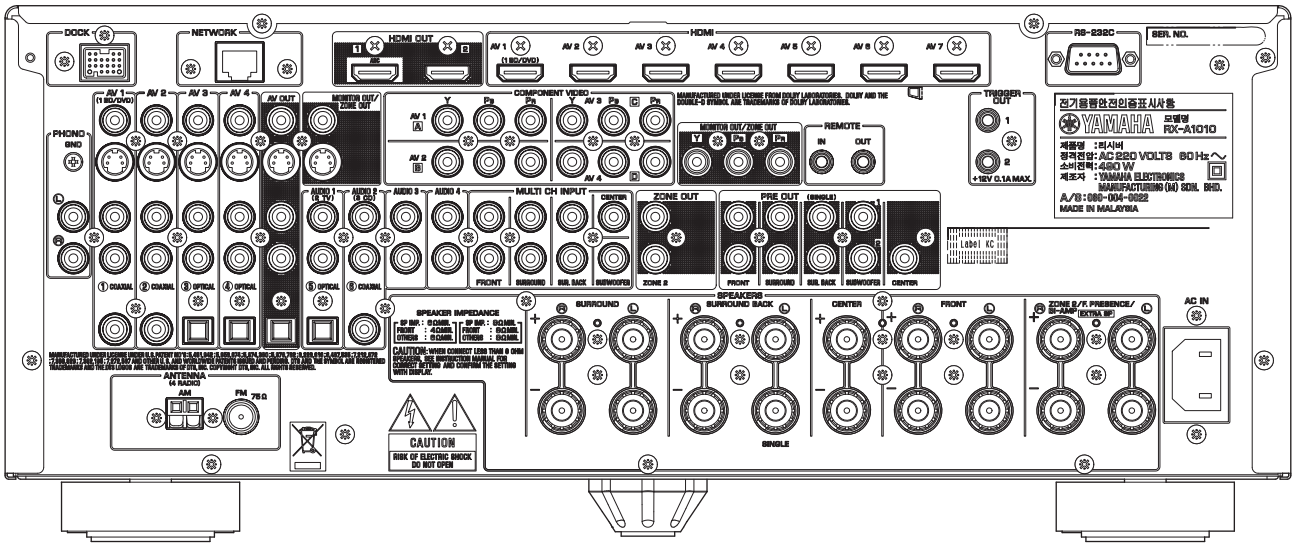

**RX-A1010 (R model)**



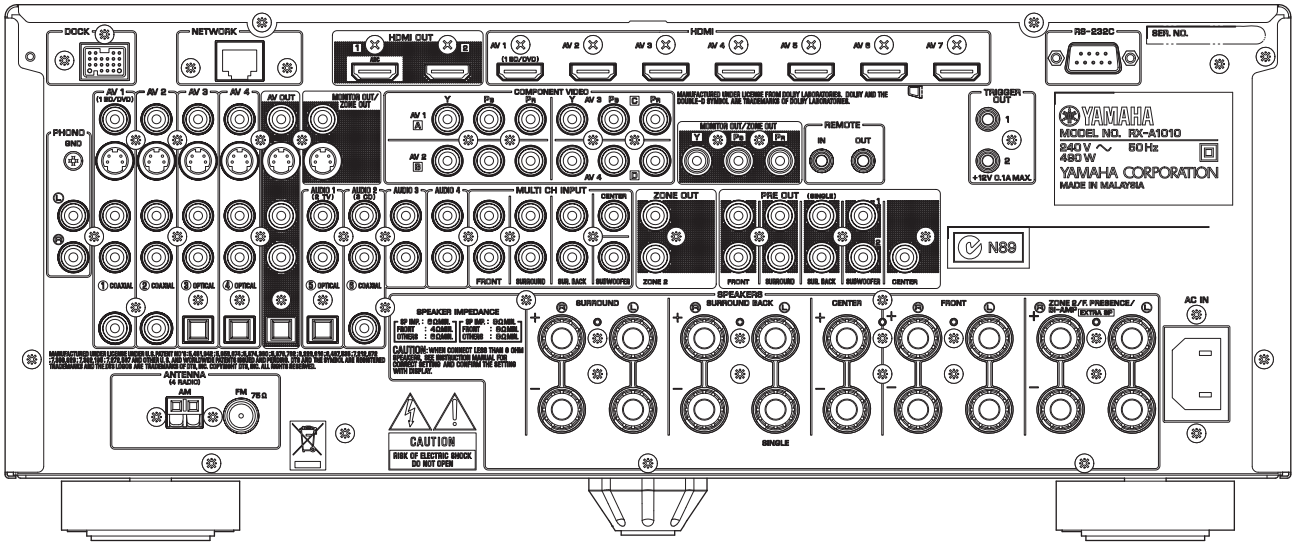

**RX-A1010 (T model)**



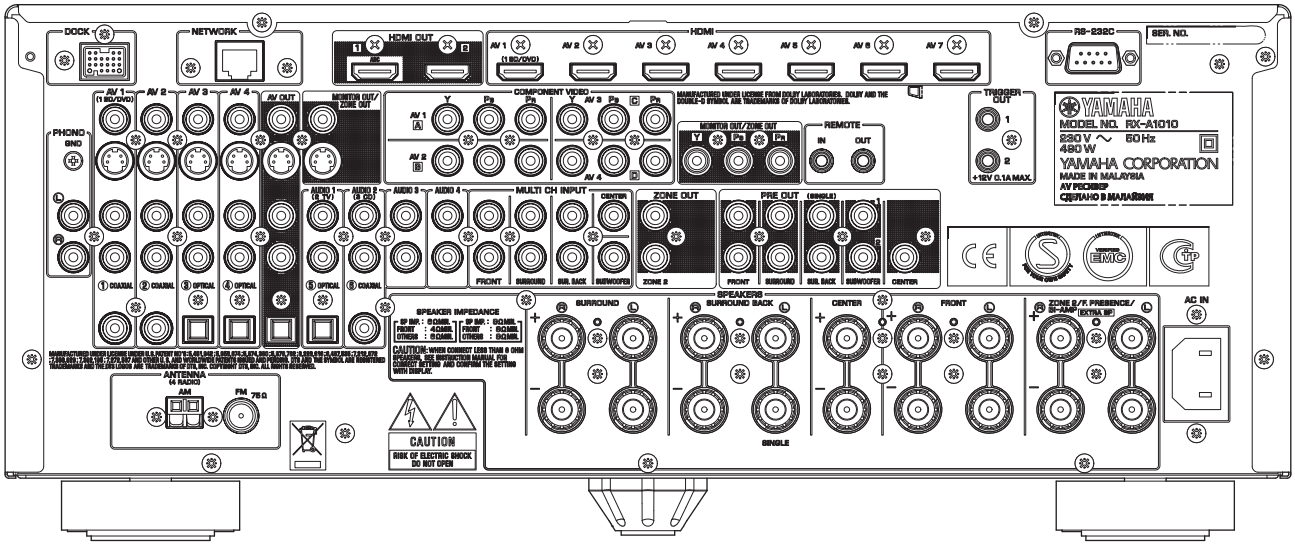
### RX-A1010 (K model)



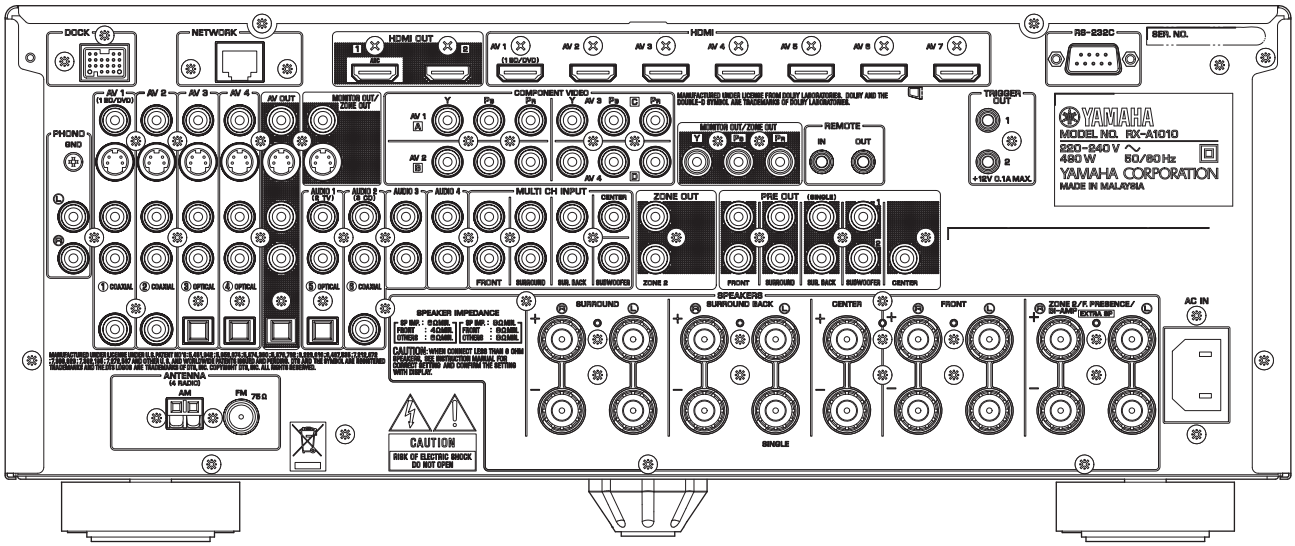

### RX-A1010 (A model)



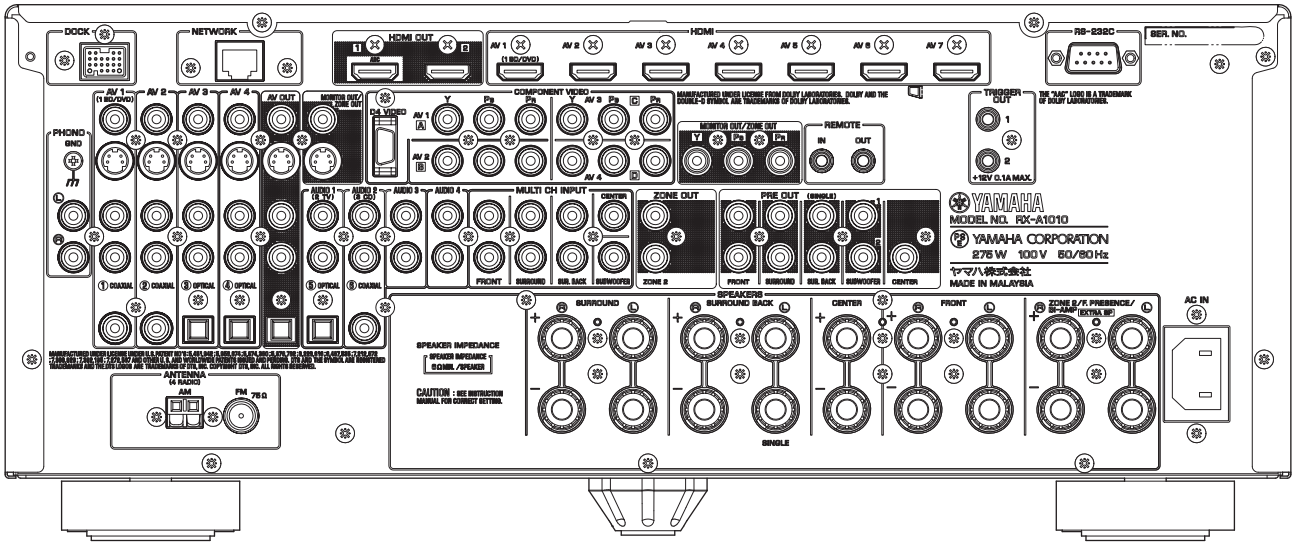

### RX-A1010 (B, G, F models)



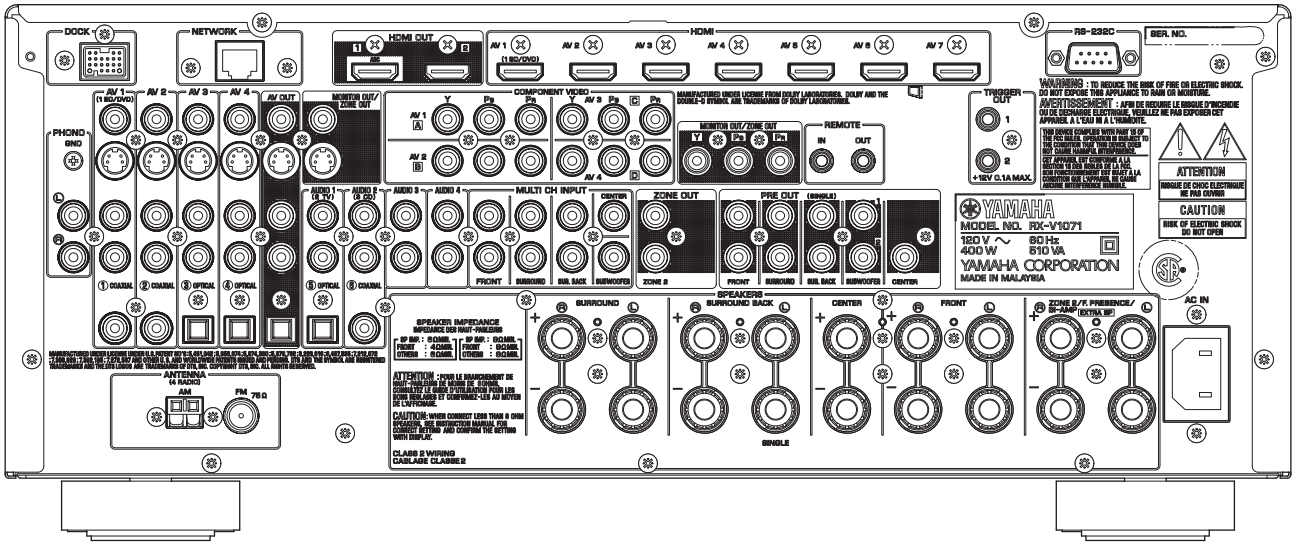
**RX-A1010 (L model)**



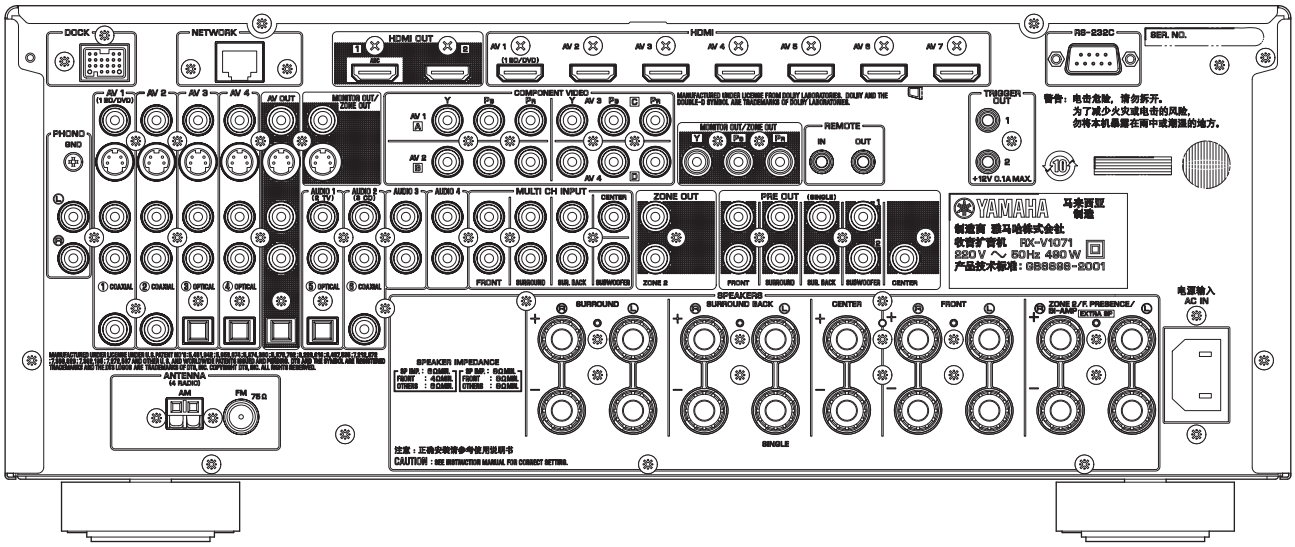

**RX-A1010 (J model)**



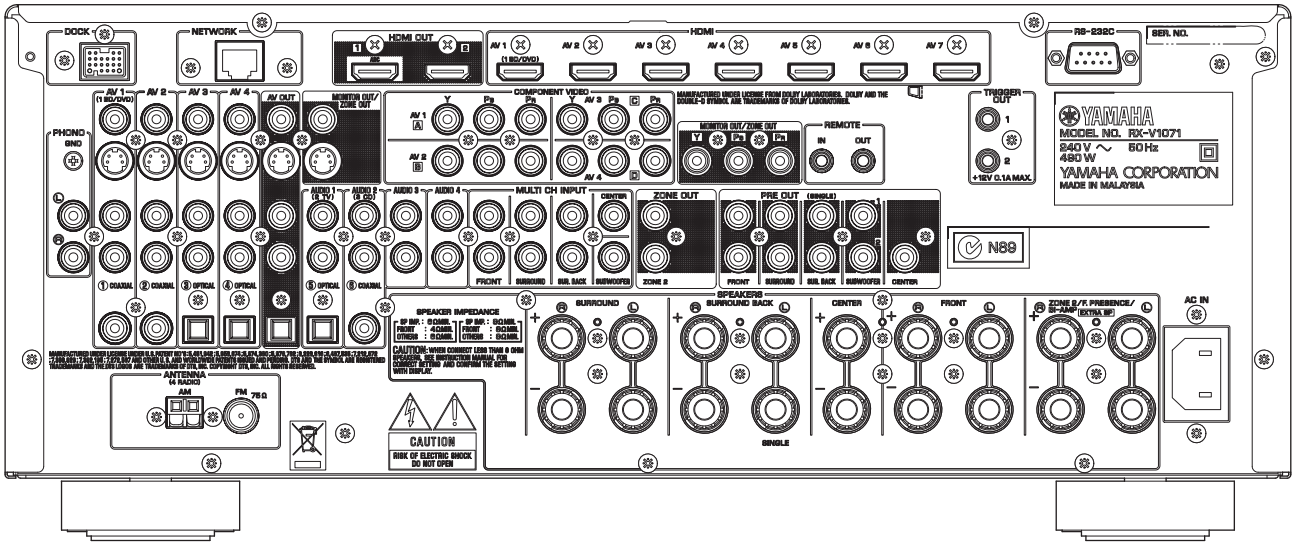

**RX-V1071 (C model)**



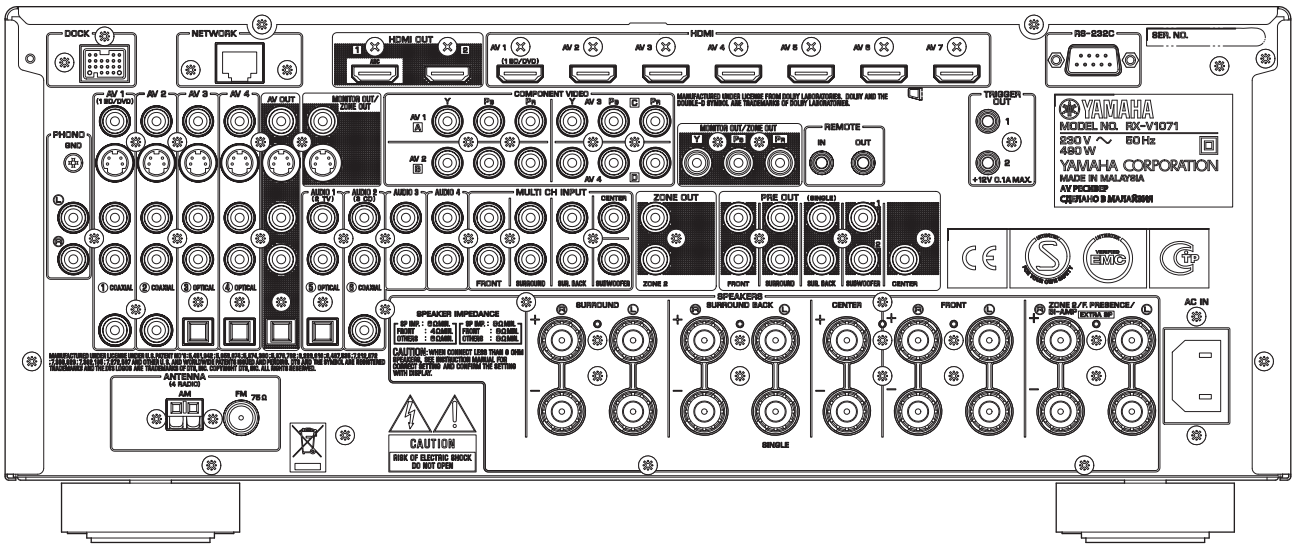
### RX-V1071 (T model)




### RX-V1071 (A model)

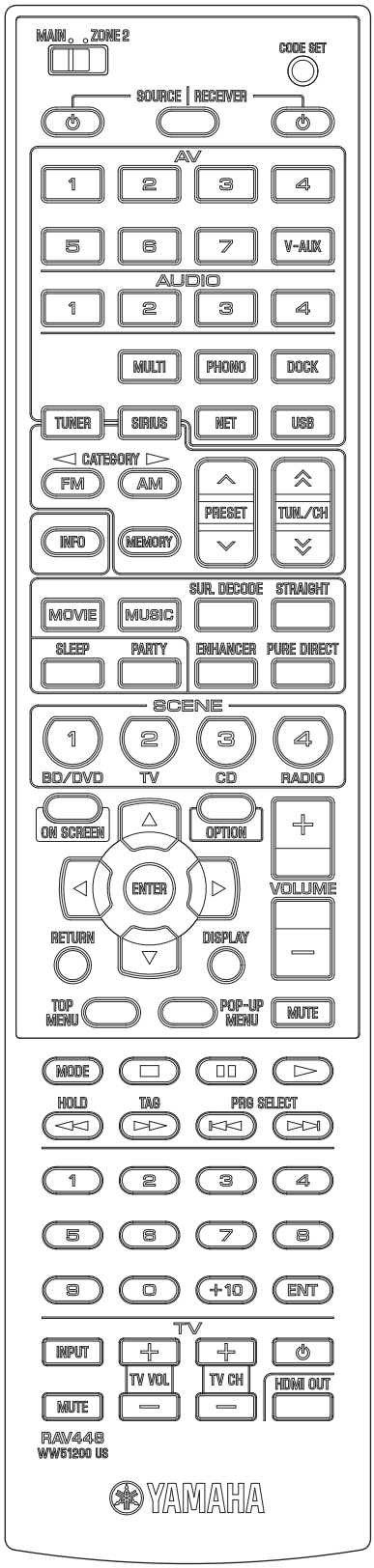



### RX-V1071 (G, F models)

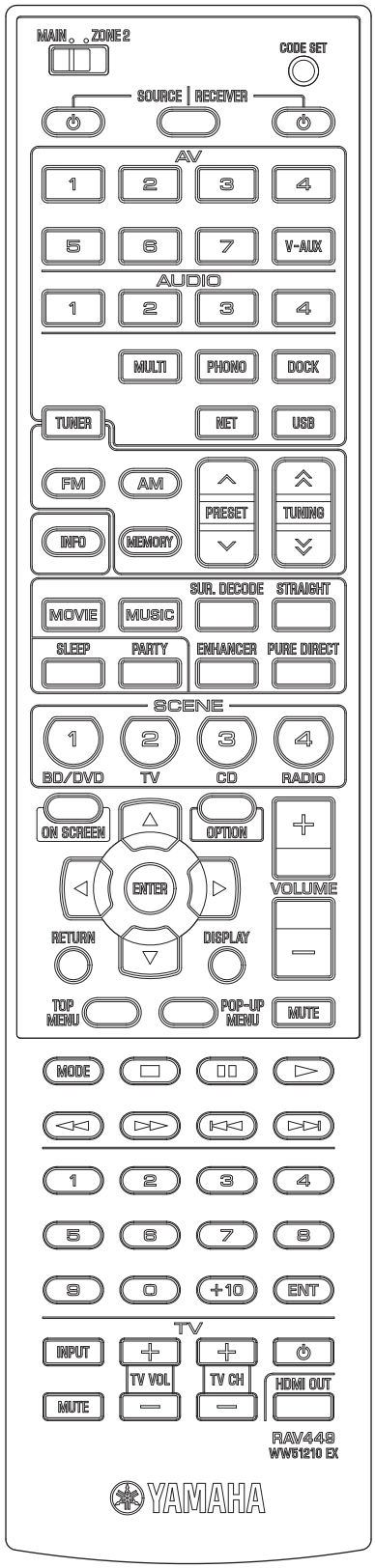


## ■ REMOTE CONTROL PANELS

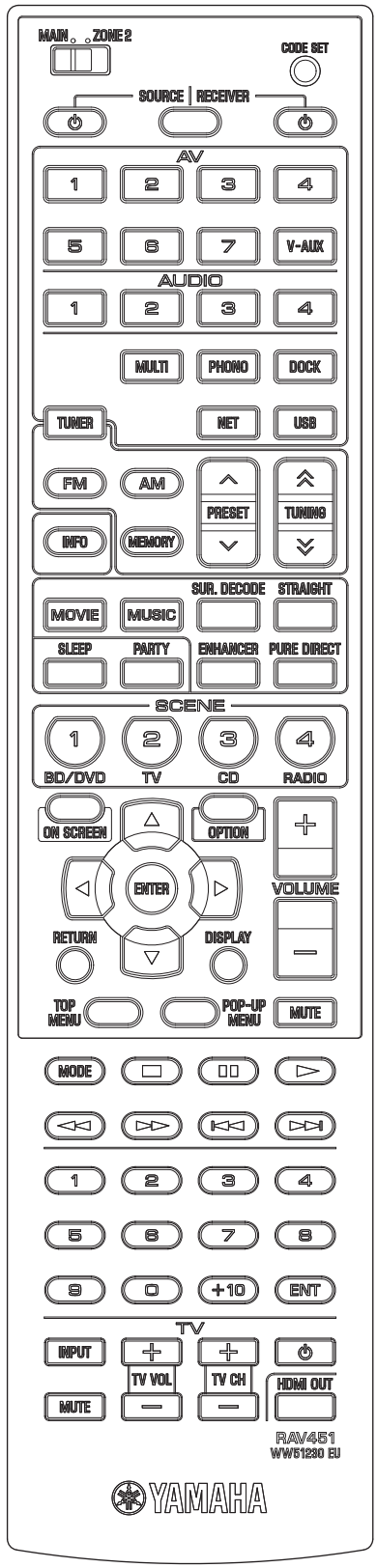
**RAV448**
(U model)




**RAV449**
(C, R, A, L, J models)




**RAV451**
(T, K, B, G, F models)



# ■ SPECIFICATIONS / 参考仕様

## ■ Audio Section / オーディオ部

**Rated Output Power (Power Amp. Section) / 定格出力（パワーアンプ部）**

(1 kHz, 0.9 % THD)

– 1 channel driven –

U, C, R, T, K, A, B, G, F, L models (8 ohms)
- FRONT L/R ..... 135 W/ch
- CENTER ..... 135 W
- SURROUND L/R ..... 135 W/ch
- SURROUND BACK L/R ..... 135 W/ch

B, G, F models (4 ohms)
- FRONT L/R ..... 170 W/ch

– 2 channel driven simultaneously –

U, C, R, T, K, A, B, G, F, L models (8 ohms)
- FRONT L/R .....120 W + 120 W
- CENTER ..... 120 W
- SURROUND L/R .....120 W + 120 W
- SURROUND BACK L/R .....120 W + 120 W

(20 Hz to 20 kHz, 0.06 % THD)

– 2 channel driven simultaneously –

U, C, R, T, K, A, B, G, F, L models (8 ohms)
- FRONT L/R .....110 W + 110 W
- CENTER ..... 110 W
- SURROUND L/R .....110 W + 110 W
- SURROUND BACK L/R .....110 W + 110 W

J model (6 ohms)
- FRONT L/R .....110 W + 110 W
- CENTER ..... 110 W
- SURROUND L/R .....110 W + 110 W
- SURROUND BACK L/R .....110 W + 110 W

**Dynamic Power Per Channel** (IHF) [U, C, R, T, K, A, B, G, F, L models]

FRONT L/R (1 channel driven)
(8 / 6 / 4 / 2 ohms) ..... 135 / 165 / 210 / 280 W

**Maximum Effective Output Power / 実用最大出力** (JEITA)
(1 channel driven / 1 kHz, 10 % THD) [R, T, K, L, J models]

R, T, K, L models (8 ohms)
- FRONT L/R ..... 165 W/ch
- CENTER ..... 165 W
- SURROUND L/R ..... 165 W/ch
- SURROUND BACK L/R ..... 165 W/ch

J model (6 ohms)
- FRONT L/R ..... 170 W/ch
- CENTER ..... 170 W
- SURROUND L/R ..... 170 W/ch
- SURROUND BACK L/R ..... 170 W/ch

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

PHONO (MM) to AV OUT .....0.02 % or less

MULTI CH INPUT (PURE DIRECT) to SP OUT (7 W/8 ohms)
.....0.04 % or less

**Damping Factor / ダンピングファクタ** (1 kHz, 8 ohms)
FRONT L/R ..... 150 or more

**Frequency Response / 再生周波数帯域**
AUDIO2 etc., PURE DIRECT (10 Hz to 100 kHz) .....0 / -3 dB

**RIAA Equalization Deviation / RIAA 偏差**
PHONO (MM) (20 Hz to 20 kHz) ..... 0 ±0.5 dB

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

PHONO (MM) to AV OUT
- U, C, R, T models (Input shorted 5 mV) ..... 86 dB or more
- K, A, B, G, F, L models (Input shorted 5 mV) ..... 81 dB or more
- J model (Input shorted 2.5 mV) ..... 80 dB or more

AUDIO2 etc. (PURE DIRECT) to SP OUT (Input shorted 250 mV)
..... 100 dB or more

**Residual Noise / 残留ノイズ (IHF-A Network)**
FRONT L/R to SP OUT .....150 µV or less

**Channel Separation / チャンネルセパレーション** (1 kHz / 10 kHz)

PHONO (MM) (Input shorted)
.....60 dB or more / 55 dB or more

AUDIO2 etc. (Input 5.1 k-ohms shorted)
.....60 dB or more / 45 dB or more

**Input Sensitivity/Input Impedance / 入力感度／入力インピーダンス**
(1 kHz, 100 W/8 ohms)

PHONO (MM) ..... 3.5 mV / 47 k-ohms

AUDIO2 etc. ..... 200 mV / 47 k-ohms

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

PHONO (MM) .....60 mV or more

AUDIO2 etc. .....2.4 V or more

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

AV OUT ..... 200 mV / 1.2 k-ohms

HEADPHONE OUT ..... 150 mV / 100 ohms

PRE OUT

FRONT, CENTER, SURROUND, SURROUND BACK (1 kHz)
..... 1.0 V / 1.2 k-ohms

SUBWOOFER (50 Hz) ..... 1.0 V / 1.2 k-ohms

ZONE2 OUT ..... 1.0 V / 1.2 k-ohms

**Volume Control Range/Step / 音量可変範囲／ステップ**

MAIN ZONE, ZONE2 ..... MUTE / -80 dB to +16.5 dB / 0.5 dB step

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

MAIN ZONE

Bass
- Boost/Cut ..... ±6 dB / 0.5 dB step, at 50 Hz
- Turnover frequency .....350 Hz

Treble
- Boost/Cut .....±6 dB / 0.5 dB step, at 20 kHz
- Turnover frequency .....3.5 kHz

ZONE2

Bass
- Boost/Cut ..... ±10 dB / 2 dB step, at 50 Hz
- Turnover frequency .....350 Hz

Treble
- Boost/Cut ..... ±10 dB / 2 dB step, at 50 Hz
- Turnover frequency .....3.5 kHz

**Bass Crossover Frequency / 低域クロスオーバー周波数**

Cut off frequency .....fc=40/60/80/90/100/110/120/160/200 Hz

FRONT, CENTER, SURROUND, SURROUND BACK small (H.P.F.)
.....12 dB/oct.

SUBWOOFER small (L.P.F.) .....24 dB/oct.

**Optical Jack, Coaxial Jack Support Fs / Optical 端子、Coaxial 端子 対応 Fs**
.....32 kHz to 96 kHz

## ■ Video Section / ビデオ部

**Video Format / ビデオ信号方式**

Monitor / ZONE out
U, C, R, K, J models .....NTSC / PAL
T, A, B, G, F, L models .....PAL / NTSC

Video conversion / GUI
.....NTSC / PAL

**Video Signal Level / ビデオ信号レベル**

**Composite Video Signal / コンポジットビデオ信号**
.....1 Vp-p / 75 ohms

**S-Video Signal / S ビデオ信号**
Y .....1 Vp-p / 75 ohms
C (NTSC) U, C, R, K, J models .....0.286 Vp-p / 75 ohms
(PAL) T, A, B, G, F, L models .....0.3 Vp-p / 75 ohms

**Component Video Signal** [U, C, R, T, K, A, B, G, F, L models]
Y .....1 Vp-p / 75 ohms
Pb/Pr .....0.7 Vp-p / 75 ohms

**D4 Video Signal / D4 ビデオ信号** [J model]
Y .....1 Vp-p / 75 ohms
Pb/Pr .....0.7 Vp-p / 75 ohms

**Video Maximum Input Level / ビデオ最大許容入力 (VIDEO Conversion Off)**
..... 1.5 Vp-p or more

**Video Signal to Noise Ratio / ビデオ信号対雑音比 (VIDEO Conversion Off)**
..... 60 dB or more

**Frequency Response / 周波数帯域 (Monitor/ZONE Out, VIDEO Conversion Off)**

**Component video signal / コンポーネントビデオ信号**
.....5 Hz to 100 MHz, ±3 dB

**D4 video signal / D4 ビデオ信号** [J model]
.....5 Hz to 100 MHz, ±3 dB

## ■ FM Section / FM 部

**Tuning Range / 受信周波数範囲**

U, C models .....87.5 to 107.9 MHz
R, L models .....87.5 to 108.0 MHz / 87.50 to 108.00 MHz
T, K, A, B, G, F models .....87.50 to 108.00 MHz
J model .....76.0 to 90.0 MHz

**50 dB Quieting Sensitivity / 50 dB SN 感度** (IHF)
(1 kHz, 100 % MOD.)
Mono ..... 3 µV (20.8 dBf)

**Signal to Noise Ratio / 信号対雑音比** (IHF)

U model
HD .....80 dB

C, R, T, K, A, B, G, F, L, J models
Mono .....72 dB
Stereo .....70 dB

**Harmonic Distortion / 歪率** (1 kHz)

U model
HD ..... 0.03 %

C, R, T, K, A, B, G, F, L, J models
Mono ..... 0.3 %
Stereo ..... 0.5 %

**Antenna Input / アンテナ入力**
..... 75 ohms unbalanced

## ■ AM Section / AM 部

**Tuning Range / 受信周波数範囲**

U, C models ..... 530 to 1,710 kHz
R, L models .....530 to 1,710 kHz / 531 to 1,611 kHz
T, K, A, B, G, F, J models ..... 531 to 1,611 kHz

**Antenna / アンテナ**
..... Loop antenna

## ■ General / 総合

**Power Supply / 電源電圧**

U, C models ..... AC 120 V, 60 Hz
R model .....AC 110–120/220–240 V, 50/60 Hz
T model ..... AC 220 V, 50 Hz
K model ..... AC 220 V, 60 Hz
A model ..... AC 240 V, 50 Hz
B, G, F models ..... AC 230 V, 50 Hz
L model ..... AC 220–240 V, 50/60 Hz
J model ..... AC 100 V, 50/60 Hz

**Voltage Selector** [R model]
.....110–120 V / 220–240 V select

**Power Consumption / 消費電力**

U model .....490 W/620 VA
C model .....400 W/510 VA
R, T, K, A, B, G, F, L models ..... 490 W
J model ..... 275 W

**Standby Power Consumption (reference data) / 待機時消費電力（参考値）**

HDMI control: OFF / Standby through: OFF
.....0.25 W or less

HDMI control: ON / Standby through: ON
INPUT: AV1 (HDMI no signal)
..... 2.0 W (typical)

Network standby: ON
..... 2.5 W (typical)

**Maximum Power Consumption** [R, L models]
(All channel driven, 10 % THD)
..... 1,190 W

**Dimensions (W x H x D) / 寸法（幅 × 高さ × 奥行き）**

[RX-A1010]
..... 435 x 182 x 432 mm (17-1/8" x 7-1/8" x 17")

[RX-V1071]
..... 435 x 182 x 430 mm (17-1/8" x 7-1/8" x 16-7/8")

**Weight / 質量**
..... 15.1 kg (33.3 lbs.)

**Finish / 仕上げ**

[RX-A1010]
T, J models .....Gold color
U, C, R, T, K, A, B, G, F, L, J models ..... Black color
R, K, B, G, F, L models .....Titanium color

[RX-V1071]
T model .....Gold color
C, T, A, G, F models ..... Black color
G, F models .....Titanium color

**Accessories / 付属品**

Remote control .....x 1
Battery (R03, AAA, UM-4) .....x 2
FM antenna (1.4 m) .....x 1
AM antenna (1.2 m) (U model) .....x 1
(1.0 m) (C, R, T, K, A, B, G, F, L, J models) .....x 1
YPAO microphone (6 m) .....x 1
Power cable (2 m) .....x 1

---

* **Specifications are subject to change without notice.**

※ **参考仕様および外観は、製品の改良のため予告なく変更することがあります。**

***U*.....*U.S.A. model***
***C*.....*Canadian model***
***R*.....*General model***
***T*.....*Chinese model***
***K*.....*Korean model***
***A*.....*Australian model***
***B*.....*British model***
***G*.....*European model***
***F*..... *Russian model***
***L*.....*Singapore model***
***J*.....*Japanese model***

Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories.

ドルビーラボラトリーズからの実施権に基づき製造されています。「ドルビー」、「PRO LOGIC」、「Surround EX」およびダブル D 記号、ドルビーラボラトリーズの商標です。

DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc.
Product includes software. © DTS, Inc. All Rights Reserved.

DTS および記号は DTS 社の登録商標です。また、DTS-HD、DTS-HD Master Audio、および DTS ロゴは DTS 社の商標です。製品にはソフトウェアを含みます。著作権 DTS 社。不許複製。

**iPod™, iPhone™**

"iPod" is a trademark of Apple Inc., registered in the U.S. and other countries.
"iPhone" is a trademark of Apple Inc.

iPod は、米国および他の国々で登録された Apple Inc. の商標または登録商標です。iPhone は、Apple Inc. の商標または登録商標です。

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

MPEG Layer 3 音声圧縮技術は Fraunhofer IIS および Thomson によってライセンス供与されています。

This receiver supports network connections.

本機はネットワーク接続に対応しています。

HD Radio Technology manufactured under license from iBiquity Digital Corporation. U.S. and Foreign Patents. HD Radio™ and the HD, HD Radio, and "Arc" logos are proprietary trademarks of iBiquity Digital Corp.

**Bluetooth™**

Bluetooth is a registered trademark of the Bluetooth SIG and is used by Yamaha in accordance with a license agreement.

Bluetooth は、Bluetooth SIG の登録商標でありヤマハはライセンスに基づき使用しています。

"HDMI," the "HDMI" logo and "High-Definition Multimedia Interface" are trademarks, or registered trademarks of HDMI Licensing LLC.

HDMI、HDMI ロゴ、および High-Definition Multimedia Interface は、HDMI Licensing, LLC の商標または登録商標です。

**x.v.Color™**

"x.v.Color" is a trademark of Sony Corporation.

「x.v.Color」は、ソニー株式会社の商標です。

"SILENT CINEMA" is a trademark of Yamaha Corporation.

「サイレントシネマ™　SILENT CINEMA ™」はヤマハ株式会社の登録商標です。

SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All rights reserved. Service not available in Alaska and Hawaii.

DLNA Certified is a trademark of the Digital Living Network Alliance in the United States and other countries.

AAC ロゴマーク はドルビーラボラトリーズの商標です。

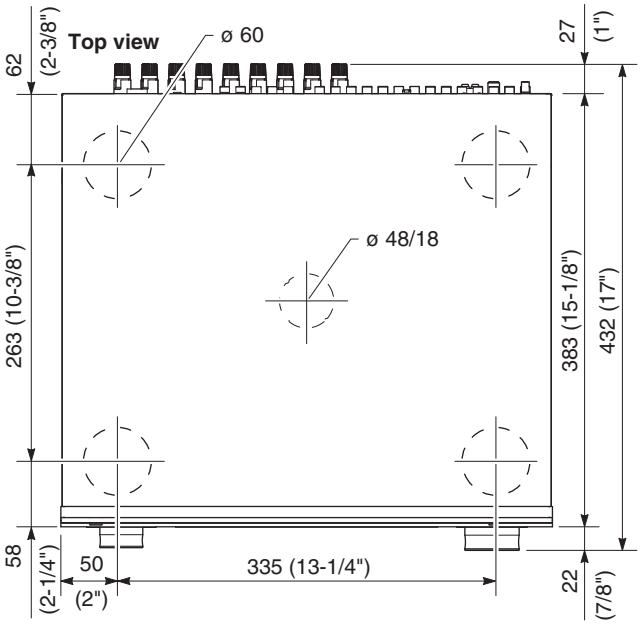
Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

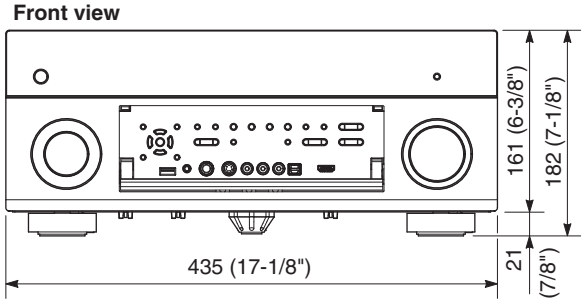
Windows XP, Windows Vista, Windows 7, Windows Media Audio, Windows Media Connect and Windows Media Player are either registered trademarks or trademarks of Microsoft corporation in the United States and/or other countries.

Windows XP、Windows Vista、Windows 7、Windows Media Audio、Windows Media Connect、Windows Media player は、米国 Microsoft Corporation の米国およびその他の国における登録商標、または商標です。

- **DIMENSIONS / 寸法図**

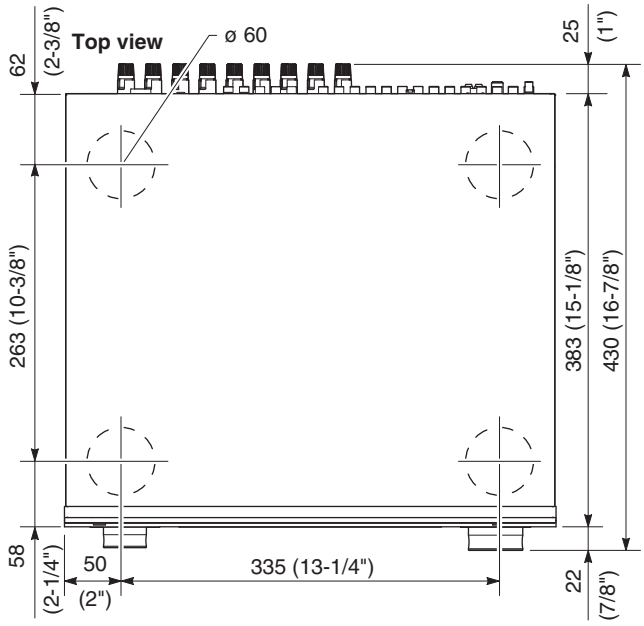
**RX-A1010**

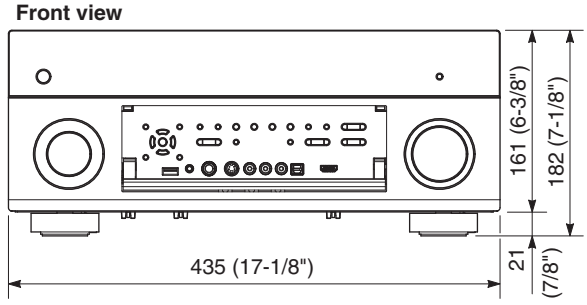



Unit: mm (inch)
単位：mm（インチ）

**RX-V1071**




Unit: mm (inch)
単位：mm（インチ）

- **SELECT MENU**

Sound field parameters

| Category | Program | Parameter | Decode Type (*1) | DSP Level: -6 to +3 dB, [0] | Initial Delay: 1 to 99 ms | Room Size: 0.1 to 2.0 | Liveness: 0 to 10 | Surround Initial Delay: 1 to 49 ms | Surround Room Size: 0.1 to 2.0 | Surround Liveness: 0 to 10 | Center Level: 0 to 100 %, [100 %] | Surround L Level: 0 to 100 %, [100 %] | Surround R Level: 0 to 100 %, [100 %] | Surround Back Level: 0 to 100 %, [100 %] | Surround Back Initial Delay: 1 to 49 ms | Surround Back Room Size: 0.1 to 2.0 | Surround Back Liveness: 0 to 10 | Surround Back L Level: 0 to 100 %, [7:1CH: 35 %, 6.1CH: 50 %] | Surround Back R Level: 0 to 100 %, [7:1CH: 35 %, 6.1CH: 50 %] | Front Presence L Level: 0 to 100 % [100 %] | Front Presence R Level: 0 to 100 % [100 %] | Reverb Time: 1.0 to 5.0 s | Reverb Delay: 0 to 250 ms | Reverb Level: 0 to 100 % | Direct: Auto / Off, [Auto] | Panorama: Off / On, [Off] | Center Width: 0 to 7, [3] | Dimension: -3 to +3, [0] | Center Image: 0.0 to 1.0, [0.3] | Reset |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOVIE THEATER | Standard | | ● | ● | | | | ● | ● | ● | | | | | ● | ● | ● | | | | | | | | | | | | | ● |
| | Spectacle | | ● | ● | ● | ● | | ● | ● | | | | | | ● | ● | | | | | | | | | | | | | | ● |
| | Sci-Fi | | ● | ● | ● | ● | | ● | ● | | | | | | ● | ● | | | | | | | | | | | | | | ● |
| | Adventure | | ● | ● | ● | ● | | ● | ● | | | | | | ● | ● | | | | | | | | | | | | | | ● |
| | Drama | | ● | ● | ● | ● | | ● | ● | | | | | | ● | ● | | | | | | | | | | | | | | ● |
| | Mono Movie | | | ● | ● | ● | ● | | | | | | | | | | | | | | | ● | ● | ● | | | | | | ● |
| ENTERTAINMENT | Sports | | | ● | ● | ● | | ● | ● | | | | | | ● | ● | | | | | | | | | | | | | | ● |
| | Action Game | | | ● | ● | ● | | ● | ● | | | | | | ● | ● | | | | | | | | | | | | | | ● |
| | Roleplaying Game | | | ● | ● | ● | | ● | ● | | | | | | ● | ● | | | | | | | | | | | | | | ● |
| | Music Video | | | ● | ● | ● | | ● | ● | | | | | | ● | ● | | | | | | | | | | | | | | ● |
| CLASSICAL | Hall in Munich | | | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | ● |
| | Hall in Vienna | | | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | ● |
| | Chamber | | | ● | ● | | ● | | | | | | | | | | | | | | | ● | ● | ● | | | | | | ● |
| LIVE/CLUB | Cellar Club | | | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | ● |
| | The Roxy Theatre | | | ● | ● | ● | ● | | | | | | | | | | | | | | | ● | ● | ● | | | | | | ● |
| | The Bottom Line | | | ● | ● | ● | ● | | | | | | | | | | | | | | | | | | | | | | | ● |
| STEREO | 2ch Stereo | | | | | | | | | | | | | | | | | | | | | | | | ● | | | | | ● |
| | 7ch Stereo | | | | | | | | | | ● | ● | ● | ● | | | | ● | ● | ● | ● | | | | | | | | | ● |
| SUR. DECODE | | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | ● |
| STRAIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

***1** Surround Decoder

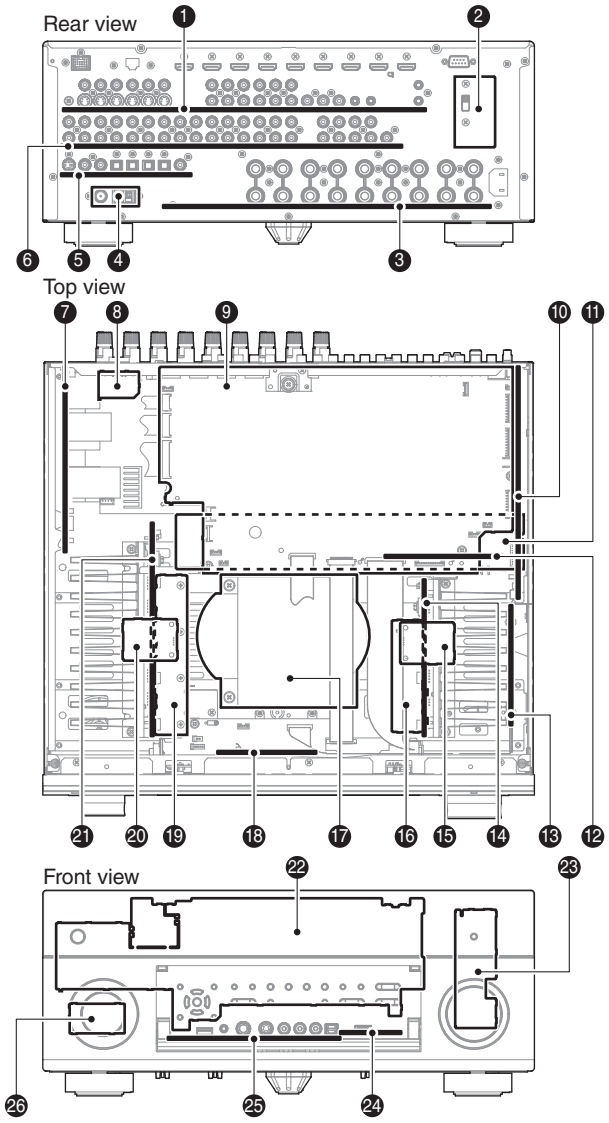
| | |
|---|---|
| Decode Type | Dolby Pro Logic |
| | Dolby PL IIx Movie / Dolby PL II Movie |
| | Dolby PL IIx Music / Dolby PL II Music |
| | Dolby PL IIx Game / Dolby PL II Game |
| | Neo:6 Cinema |
| | Neo:6 Music |

- **SET MENU TABLE / セットメニュー**

| MAIN MENU | SUB-MENU | | PARAMETER | | VALUE [INITIAL VALUE] |
|---|---|---|---|---|---|
| Speaker Setup | Auto | Measure | | | Optimizes the speaker configuration automatically using YPAO. |
| | | Result | | | Not Available |
| | Manual | Setting Pattern | | | [Pattern1] / Pattern2 |
| | | Setting Data Copy | | | Pattern1 > 2 / Pattern2 > 1 |
| | | Power Amp Assign | | | [Basic] / 7ch +1ZONE / 5ch BI-AMP / 5ch BI-AMP +SB |
| | | Configuration | Front | | Large / [Small]<br>* When “Subwoofer” is set to “None”, “Front” is disabled. |
| | | | Center | | Large / [Small] / None |
| | | | Surround | | |
| | | | Surround Back | | Large x1 / Large x2 / Small x1 / [Small x2] / None |
| | | | Front Presence | | [Use] / None |
| | | | Subwoofer | | [Use] / None |
| | | | | Use | [Normal] / Reverse |
| | | | Extra Bass | | [Off] / On |
| | | | Bass Cross Over | | 40 / 60 / [80] / 90 / 100 / 110 / 120 / 160 / 200 Hz |
| | | Distance | | | Meter / Feet |
| | | | Front L | | 0.30 to 24.00 m, [3.00 m], 0.05 m step<br>1.0 to 80.0 ft, [10.0 ft], 0.2 ft step |
| | | | Front R | | |
| | | | Center | | |
| | | | Surround L | | |
| | | | Surround R | | |
| | | | Surround Back L | | |
| | | | Surround Back R | | |
| | | | Front Presence L | | |
| | | | Front Presence R | | |
| | | | Subwoofer | | |
| | | Level | Front L | | -10.0 to +10.0 dB, [0.0 dB], 0.5 dB step |
| | | | Front R | | |
| | | | Center | | |
| | | | Surround L | | |
| | | | Surround R | | |
| | | | Surround Back L | | |
| | | | Surround Back R | | |
| | | | Front Presence L | | |
| | | | Front Presence R | | |
| | | | Subwoofer | | |
| | | Parametric EQ | PEQ Select | | Manual / YPAO : Flat / YPAO : Front / YPAO : Natural / Through |
| | | PEQ Data Copy | | | Flat > Manual / Front > Manual / Natural > Manual<br>* Select “ENTER” |
| | | | Front L | Band / Gain | ▶ Band: #1 to #7<br>▲ Gain: -20.0 to +6.0 dB, [0.0 dB], 0.5 dB step |
| | | | Front R | | |
| | | | Center | Freq. / Gain | ▶ Frequency: 31.3 Hz to 16.0 kHz, [62.5 Hz]<br>▲ Gain: -20.0 to +6.0 dB, [0.0 dB], 0.5 dB step |
| | | | Surround L | | |
| | | | Surround R | Q / Gain | ▶ Q: 0.500 to 10.080, [1.000]<br>▲ Gain: -20.0 to +6.0 dB, [0.0 dB], 0.5 dB step |
| | | | Surround Back L | | |
| | | | Surround Back R | Clear | OK / CANCEL * Select “ENTER” |
| | | | Front Presence L | | * When “PEQ Select” is set to “Manual”, this section is disabled. |
| | | | Front Presence R | | |
| | | Test Tone | | | [Off] / On |
| Sound Setup | Lipsync | | | | [Auto] / Manual |
| | | | Select “Manual” | | 0 to 250 ms, [0 ms], 1 ms step |
| | Dynamic Range | | | | [Maximum] / Standard / Minimum/Auto |
| | Max. Volume | | | | -30.0 to +16.5 dB (Maximum volume), [+16.5 dB], 5.0 dB step |
| | Initial Volume | | | | [Off] / On |
| | | | Select “On” | | Mute, -80 to +16.5 dB, [0.0 dB], 0.5 dB step |
| | Pure Direct Mode | | | | [Auto] / Video Off |
| | Adaptive DSP Level | | | | Off / [On] |
| Video Setup | Analog to Analog Conversion | | | | Off / [On] |
| | Processing | | | | [Off] / On |
| | | | Resolution | | Through / [Auto] / 480p/576p / 720p / 1080i / 1080p<br>* Select “ENTER” |
| | | | Aspect | | [Through] / 16:9 Normal |

| MAIN MENU | SUB-MENU | | PARAMETER | | VALUE [INITIAL VALUE] |
|---|---|---|---|---|---|
| HDMI Setup | HDMI Control | | | | [Off] / On |
| | | | TV Audio Input | | [AUDIO1] / AUDIO2 / AUDIO3 / AUDIO4 |
| | | | ARC (Audio Return Channel) | | Off / [On] |
| | | | Standby Sync | | Off / On / [Auto] |
| HDMI Setup | Audio Output | | Amp | | Off / [On] |
| | | | HDMI OUT1, HDMI OUT2 | | [Off] / On |
| | Standby Through | | | | [Off] / On<br>* When HDMI Control is set to “On”, “Standby Through” is disabled. |
| Network Setup | IP Address | DHCP | | | [Off] / On |
| | | | IP Address | | xxx.xxx.xxx. x |
| | | | Subnet Mask | | xxx.xxx.xxx. x |
| | | | Default Gateway | | xxx.xxx.xxx. x |
| | | | DNS Server (P) | Primary | x. x. x. x |
| | | | DNS Server (P) | Secondary | x. x. x. x |
| | Network Standby | | | | [Off] / On |
| | MAC Address Filter | Mode | | | [Off] / On |
| | | | Address Setup | | MAC Address 1 to 10<br>xx : xx : xx : xx : xx : xx |
| Multi Zone Setup | Zone2 Set | Volume | | | Fixed / [Variable] |
| | | Max. Volume | | | -30.0 to +16.5 dB (Maximum volume), [+16.5 dB], 5.0dB step |
| | | Initial Volume | | | [Off] / On |
| | | Mono | | | |
| | Monitor Out Assign | | | | [Main] / Zone2 |
| | Party Mode Set | | Target: Zone2 | | Disable / [Enable] |
| | Zone Scene Rename | | | | Scene names may consist of up to 20 characters |
| | Zone Rename | | Main | | Input is possible to 9 characters |
| | | | Zone2 | | |
| Function Setup | Auto Power Down | | | | [Off] / 4 Hours / 8 Hours / 12 Hours |
| | Input Assignment | | COMPONENT VIDEO | A B C D | AV1 / AV2 / AV3 / AV4 / AV5 / AV6 / AV7<br>AUDIO1 / AUDIO2 / AUDIO3 / AUDIO4 |
| | | | COAXIAL | ① ② ⑥ | |
| | | | OPTICAL | ③ ④ ⑤ | |
| | Display Set | Front Panel Display | Dimmer | | -4 to 0, [0] |
| | | | Scroll | | [Continue] / Once |
| | | Short Message | | | [On] / Off |
| | | Wall Paper | | | Picture1 / Picture2 / Picture3 / Gray |
| | Trigger Output1<br>Trigger Output2 | Trigger Mode | | | [Power] / Source / Manual |
| | | Target Zone | | | Main / Zone2 / [All]<br>* When “Trigger Mode” is set to “Power”, “Target Zone” is disabled. |
| | | Target Source | AV1 | | |
| | | | AV2 | | |
| | | | AV3 | | |
| | | | AV4 | | |
| | | | AV5 | | |
| | | | AV6 | | |
| | | | AV7 | | |
| | | | V-AUX | | |
| | | | AUDIO1 | | Low / [High]<br>* When “Trigger Mode” is set to “Source”, “Target Source” is disabled. |
| | | | AUDIO2 | | |
| | | | AUDIO3 | | |
| | | | AUDIO4 | | |
| | | | PHONO | | |
| | | | TUNER | | |
| | | | SIRIUS (Sirius Satellite Radio) (U model) | | |
| | | | NETWORK | | |
| | | | USB | | |
| | | | DOCK | | |
| | | | MULTI CH | | |
| | | Manual | | | Low / [High]<br>* When “Trigger Mode” is set to “Manual”, “Manual” is disabled. |
| | Memory Guard | | | | [Off] / On |
| Language Setup | | | | | English (English), 日本語 (Japanese), Français (French), Deutsch (German), Español (Spanish), Русский (Russian) |

# ■ INTERNAL VIEW




❶ VIDEO (1) P.C.B.
❷ POWER (2) P.C.B. (R model)
❸ MAIN (3) P.C.B.
❹ AM/FM TUNER (C, R, T, K, A, B, G, F, L, J models)
HD RADIO TUNER (U model)
❺ FUNCTION (2) P.C.B.
❻ FUNCTION (1) P.C.B.
❼ POWER (1) P.C.B.
❽ DIGITAL (3) P.C.B.
❾ DIGITAL (1) P.C.B.
❿ FUNCTION (3) P.C.B.
⓫ VIDEO (2) P.C.B.
⓬ POWER (4) P.C.B.
⓭ POWER (3) P.C.B.
⓮ MAIN (2) P.C.B.
⓯ MAIN (5) P.C.B.
⓰ VIDEO (5) P.C.B.
⓱ POWER TRANSFORMER
⓲ VIDEO (3) P.C.B.
⓳ VIDEO (4) P.C.B.
⓴ MAIN (4) P.C.B.
㉑ MAIN (1) P.C.B.
㉒ OPERATION (1) P.C.B.
㉓ OPERATION (3) P.C.B.
㉔ DIGITAL (2) P.C.B.
㉕ OPERATION (2) P.C.B.
㉖ OPERATION (4) P.C.B.

# ■ SERVICE PRECAUTIONS / サービス時の注意事項

### Safety measures

- Some internal parts in this product contain high voltages and are dangerous.
  Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there.
  Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of each capacitor indicated below to discharge electricity.
  The time required for discharging is about 30 seconds per each.

  C1105, C1106 on MAIN (3) P.C.B.
  C2016 on POWER (1) P.C.B.

  For details, refer to “PRINTED CIRCUIT BOARDS”.

### 安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。
  修理作業前に放電用抵抗（5 k Ω /10 W）を下記の各コンデンサの端子間に接続して放電してください。
  放電所用時間は各々約 30 秒間です。

  MAIN（3）P.C.B. の C1105、C1106
  POWER（1）P.C.B. の C2016

  詳しくは “PRINTED CIRCUIT BOARDS” を参照してください。

# ■ DISASSEMBLY PROCEDURES / 分解手順

(Remove parts in the order as numbered.)
Disconnect the power cable from the AC outlet.

### 1. Removal of Top Cover

a. Remove 4 screws (①), 4 screws (②) and 2 screws (③). (Fig. 1)
b. Lift the rear of the top cover to remove it. (Fig. 1)

### 2. Removal of Front Panel Unit and Sub-chassis Unit

a. Remove 6 screws (④) and then remove the front panel unit forward. (Fig. 1)
b. Remove 4 push rivets and then remove the side plate (L) and the side plate (R). (Fig. 1)
c. Remove 2 screws (⑤), screw (⑥), 3 screws (⑦) and screw (⑧). (Fig. 1)
d. Remove CB10, CB81, CB361, CB454, CB806, CB902 and CB946. (Fig. 1)
e. Release 2 hooks and then remove the sub-chassis unit. (Fig. 1)

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

### 1. トップカバーの外し方

a. ① のネジ 4 本、② のネジ 4 本、③ のネジ 2 本を外します。(Fig. 1)
b. トップカバーの後部を持ち上げて外します。(Fig. 1)

### 2. フロントパネルユニットと サブシャーシユニットの外し方

a. ④ のネジ 6 本を外し、フロントパネルユニットを前方に外します。(Fig. 1)
b. プッシュリベット 4 個を外し、サイドプレート（L)、サイドプレート（R）を外します。(Fig. 1)
c. ⑤ のネジ 2 本、⑥ のネジ 1 本、⑦ のネジ 3 本、⑧ のネジ 1 本を外します。(Fig. 1)
d. CB10、CB81、CB361、CB454、CB806、CB902、CB946 を外します。(Fig. 1)
e. フック 2 箇所を外し、サブシャーシユニットを外します。(Fig. 1)

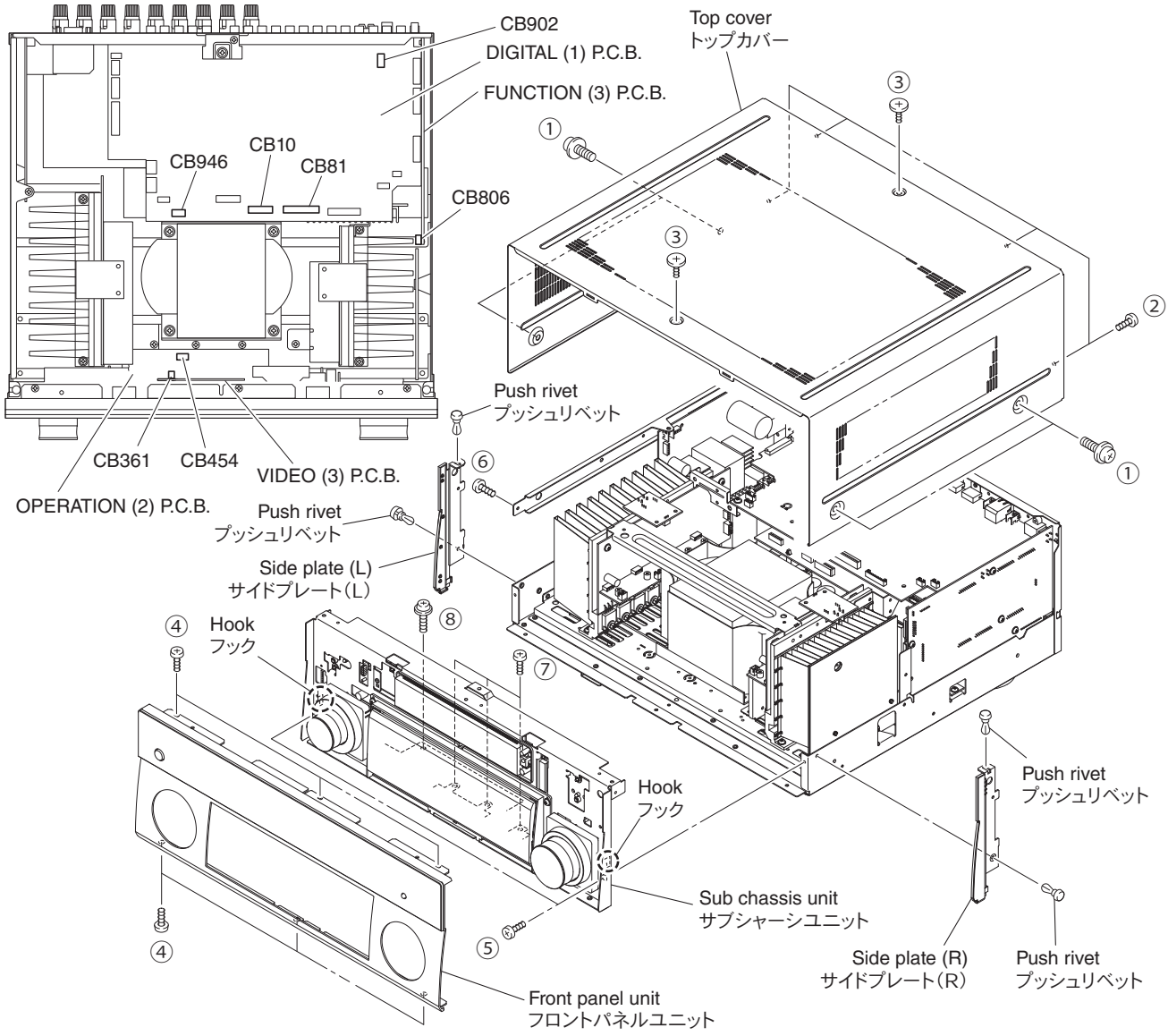



Fig. 1

### 3. Removal of DIGITAL (1) P.C.B.

a. Remove 3 screws (⑨). (Fig. 2)
b. Remove 9 screws (⑩) and 3 screws (⑪). (Fig. 3)
c. Remove CB21, CB22, CB84, CB86–88, CB95, CB923, CB947 and CB948. (Fig. 2)
d. Remove CB917, CB918 and CB920 and then remove the DIGITAL (1) P.C.B. which is connected directly to the FUNCTION (3) P.C.B. with board-to-board connectors. (Fig. 2)

### 3. DIGITAL（1）P.C.B. の外し方

a. ⑨ のネジ 3 本を外します。(Fig. 2)
b. ⑩ ネジ 9 本、⑪ のネジ 3 本を外します。(Fig. 3)
c. CB21、CB22、CB84、CB86 ～ 88、CB95、CB923、CB947、CB948 を外します。(Fig. 2)
d. CB917、CB918 と CB920 を外し、DIGITAL（1）P.C.B. を外します。
ただし、DIGITAL（1）P.C.B. は FUNCTION（3）P.C.B. に基板対基板コネクターで直接接続されています。
(Fig. 2)

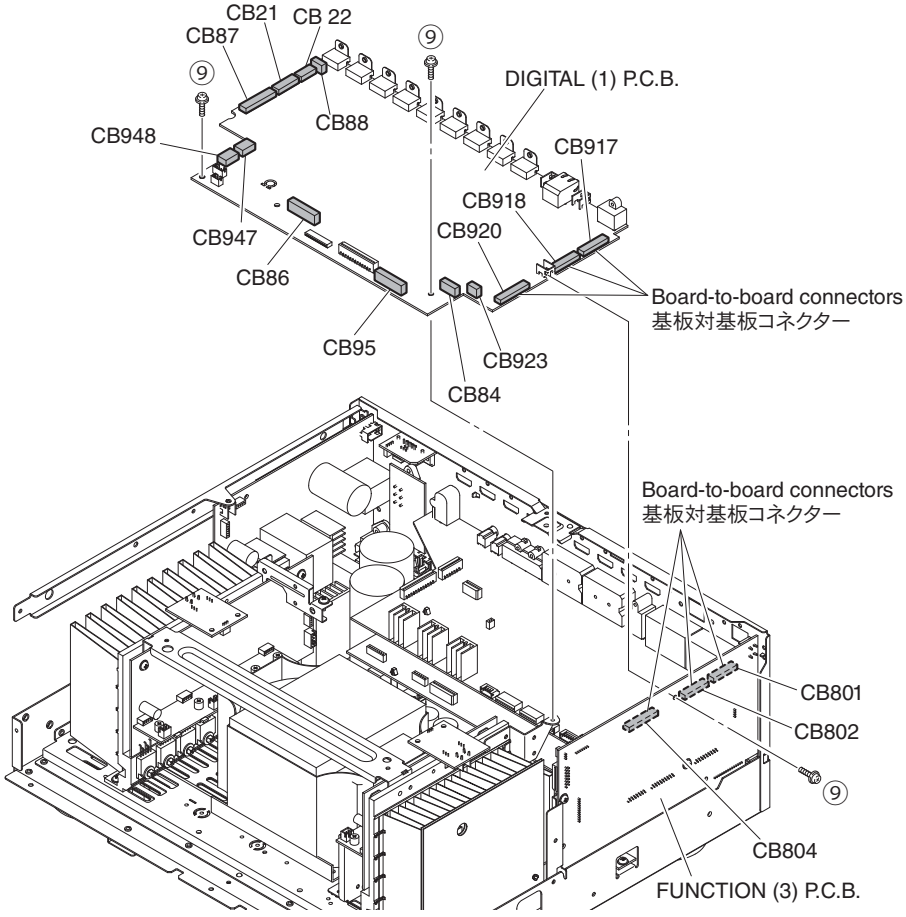



**Fig. 2**

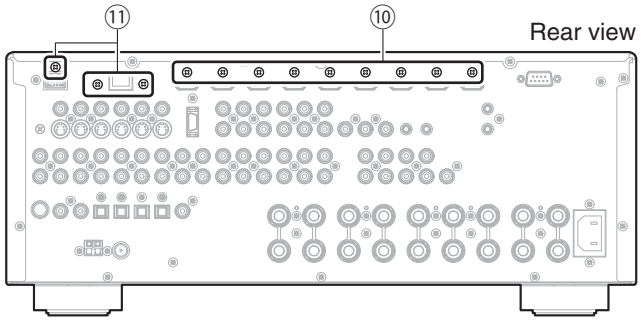



**Fig. 3**

## 4. Removal of VIDEO (1) P.C.B.

a. Remove 11 screws (⑫). (Fig. 4)
b. Remove CB304, CB331, CB332 (C, R, T, K, A, B, G, F, L models) and CB334 (U model). (Fig. 5)
c. Unlock and remove CB333. (Fig. 5)
d. Release 2 hooks and then remove the VIDEO (1) P.C.B. (Fig. 5)

## 5. Removal of FUNCTION (1)–(3) P.C.B.s

a. Remove screw (⑬). (Fig. 5)
b. Remove 20 (U model)/19 (C, R, T, K, A, B, G, F, L models) screws (⑭). (Fig. 4)
c. Remove CB706, CB707 and CB805. (Fig. 5)
d. Release hook and then remove the FUNCTION (1) P.C.B. together with the FUNCTION (2) and (3) P.C.B.s. (Fig. 5)

## 4. VIDEO（1）P.C.B. の外し方

a. ⑫ のネジ 12 本を外します。（Fig. 4）
b. CB304、CB331、CB332 を外します。（Fig. 5）
c. ロックを外し CB333 を外します。（Fig. 5）
d. フック 2 ヶ所を外し、VIDEO（1）P.C.B. を外します。（Fig. 5）

## 5. FUNCTION（1）～（3）P.C.B. の外し方

a. ⑬ のネジ 1 本を外します。（Fig. 5）
b. ⑭ のネジ 19 本を外します。（Fig. 4）
c. CB706、CB707、CB805 を外します。（Fig. 5）
d. フック 1 ヶ所を外し、FUNCTION（1）P.C.B. を FUNCTION（2）、（3）P.C.B. と一緒に外します。（Fig. 5）

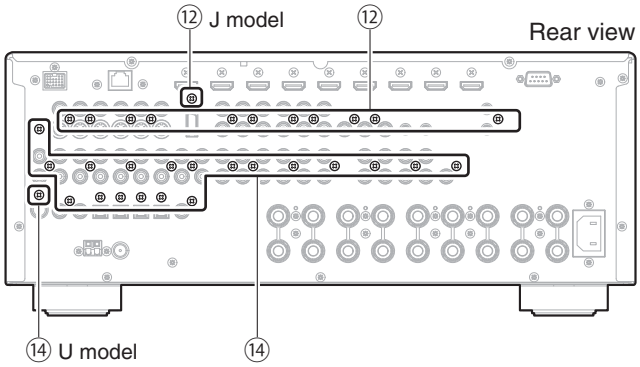
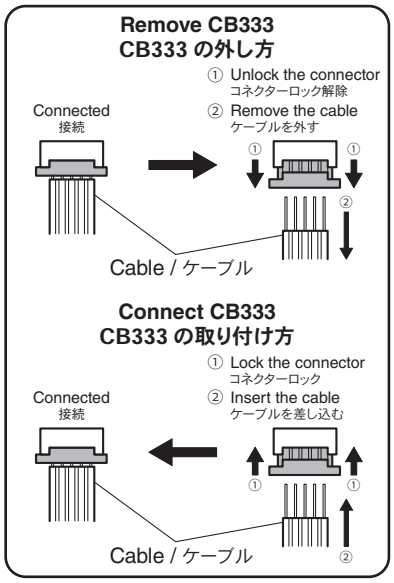



Fig. 4



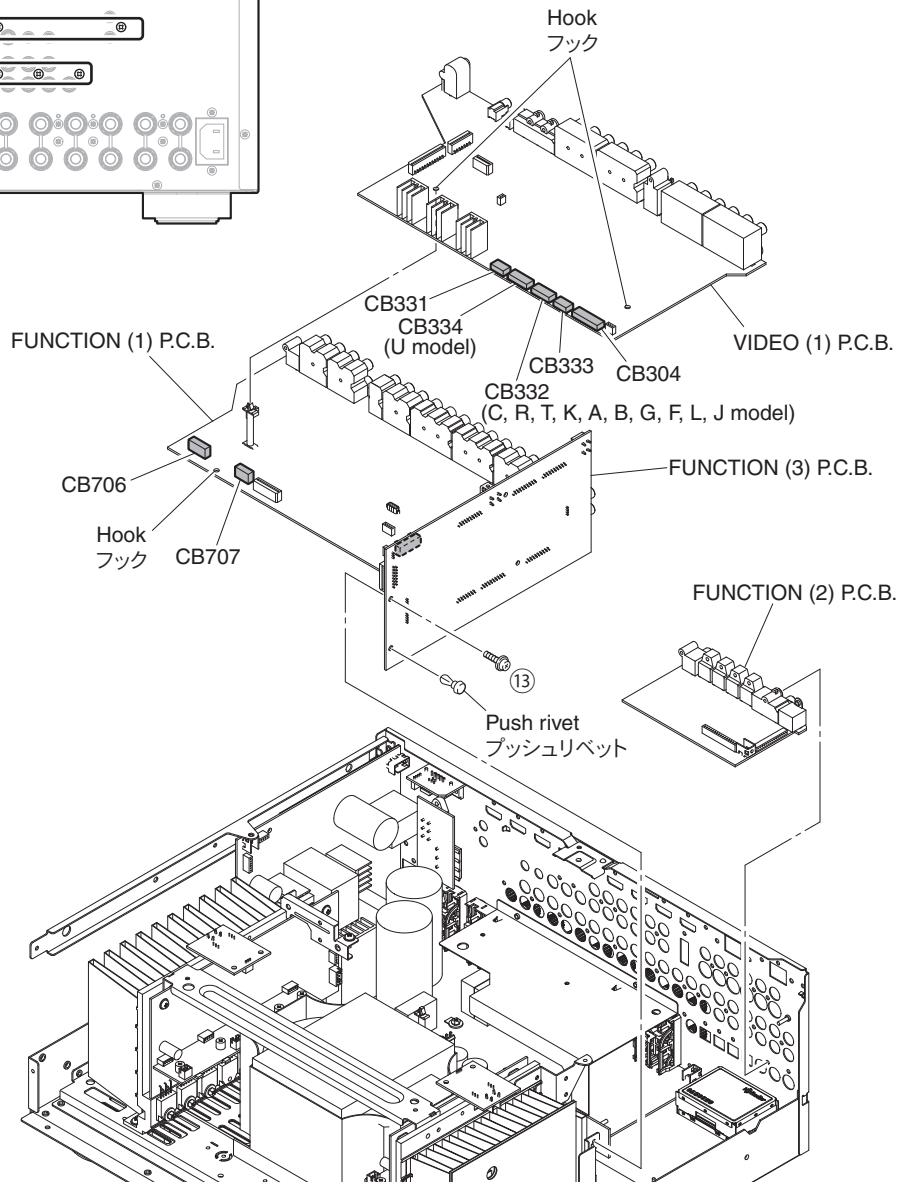




Fig. 5

**When checking the P.C.B.:**

- Put the rubber sheet and the cloth over this unit, and place the sub-chassis unit on them as shown below. (Fig. 6)
- Connect the ground points of the AMP unit (L) and the AMP unit (R) to the chassis with a ground lead or the like. (Fig. 6)
- Reconnect all cables (connectors) that have been disconnected.
- When connecting the flexible flat cable, be careful with polarity.

**P.C.B. をチェックする場合には：**

- 本機の上にゴムシートと布を敷き、その上にサブシャーシユニットを置きます。(Fig. 6)
- アンプユニット（L）とアンプユニット（R）のアースをリード線等でシャーシに接続してください。(Fig. 6)
- 外したケーブル（コネクター）をすべて接続します。
- フラットケーブルを接続する際、極性に注意してください。

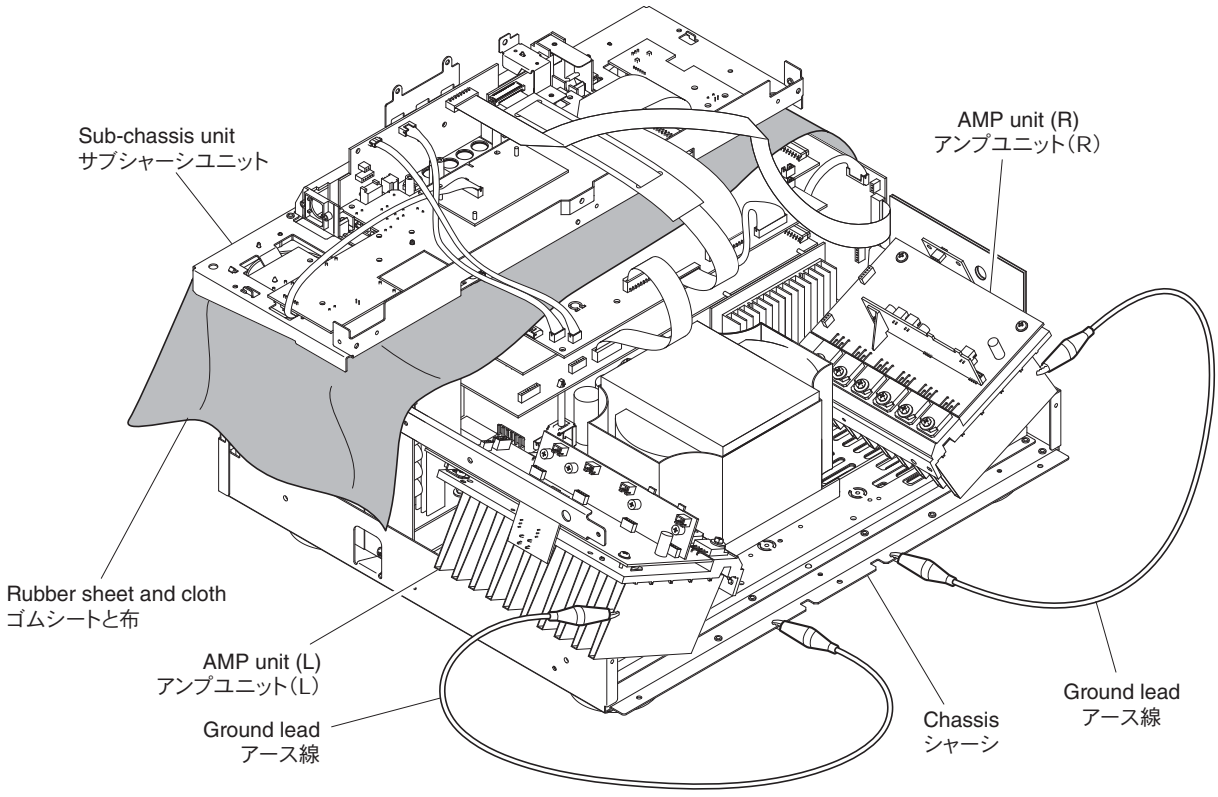



**Fig. 6**

# ■ UPDATING FIRMWARE / ファームウェアのアップデート

When the following parts are replaced, the firmware must be updated to the latest version.

DIGITAL P.C.B.
FPGA Flash ROM: IC82 on DIGITAL P.C.B.
NETWORK Flash ROM: IC904 on DIGITAL P.C.B.
DSP(TI) Flash ROM: IC923 on DIGITAL P.C.B.

### ● Confirmation of firmware version and checksum

Before and after updating the firmware, check the firmware version and checksum by using the self-diagnostic function menu.

Start up the self-diagnostic function and select “S4. ROM VERSION/CHECKSUM” menu.

Using the sub-menu, have the firmware version and checksum displayed, and note them down.
(See “SELF-DIAGNOSTIC FUNCTION”)

* When the firmware version is different from written one after updating, perform the updating procedure again from the beginning.

### ● Initializing the back-up IC (EEPROM: IC83 on DIGITAL (1) P.C.B.)

After updating the firmware, the back-up IC MUST be initialized by the following procedure to have proper memorization of the set up information (soundfield parameters, system memory and tuner presetting, etc.).

Start up the self-diagnostic function and select “S3. FACTORY PRESET” menu. (See “SELF-DIAGNOSTIC FUNCTION”)

Select “PRESET RSRV”, press the “MAIN ZONE ⏻” key to turn off the power once and turn on the power again. Then the back-up IC is initialized.

### ● Required Tools

- USB storage device
- Firmware
  RX-A1010, RX-V1071: RXV1071-xxxx.bin

### ● Preparation

1. Download the latest firmware from the specified download source to the folder of the PC.
2. Copy the latest firmware from the PC to the root folder of the USB storage device.

Note) When the latest firmware is copied to a sub-folder of the USB storage device, the update will not proceed.

下記の部品を交換した場合、ファームウェアを最新バージョンにアップデートする必要があります。

DIGITAL P.C.B.
FPGA フラッシュ ROM： DIGITAL P.C.B. の IC82
NETWORK フラッシュ ROM：DIGITAL P.C.B. の IC904
DSP（TI）フラッシュ ROM： DIGITAL P.C.B. の IC923

### ● ファームウェアのバージョンとチェックサムの確認

ファームウェアのアップデートの前後に、ファームウェアのバージョンとチェックサムをダイアグで確認します。

ダイアグを起動し、“S4. ROM VERSION/CHECKSUM” メニューを選択します。

サブメニューでファームウェアのバージョンとチェックサムを表示し、それらを書きとめます。
（「ダイアグ」参照）

※ アップデート後、ファームウェアのバージョンが書き込まれたものと異なる場合、アップデートの操作を最初からやり直してください。

### ● バックアップ IC の初期化 （EEPROM：DIGITAL（1）P.C.B. の IC83）

ファームウェアのアップデート後、設定情報（音場プログラムのパラメーターやシステムメモリー、チューナープリセット等）を正常に記憶するために、下記の方法でバックアップ IC を初期化する必要があります。

本機のダイアグを起動し、“S3. FACTORY PRESET” メニューを選択します。
（「ダイアグ」参照）

“PRESET RSRV” を選択し、“MAIN ZONE ⏻” キーを押して電源を一度きってから、もう一度電源を入れるとバックアップ IC が初期化されます。

### ● 必要なツール

- USB フラッシュメモリー
- ファームウェア
  RX-A1010：RXV1071-xxxx.bin

### ● 準備

1. 指定のダウンロード先から、最新のファームウェアを PC のフォルダへダウンロードしてください。
2. PC から USB フラッシュメモリーのルートフォルダへ最新のファームウェアをコピーします。

注意）最新のファームウェアをサブフォルダにコピーした場合、書き込みはできません。

## ● Operation Procedures

1. Insert the USB storage device to the USB jack. (Fig. 1)
2. While pressing the “PURE DIRECT” key, connect the power cable to the AC outlet. (Fig. 1)

## ● 操作手順

1. USB 端子に USB フラッシュメモリーを差し込みます。(Fig. 1)
2. “PURE DIRECT” キーを押しながら、電源コードを AC コンセントに接続します。(Fig. 1)

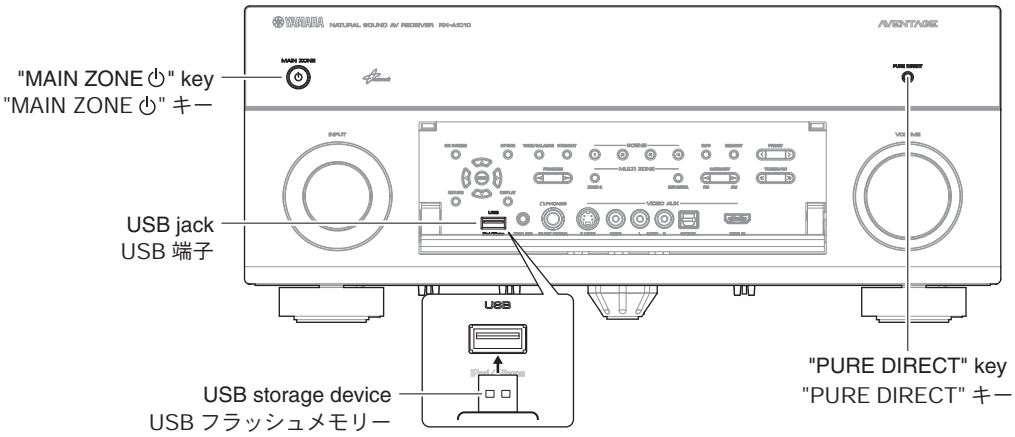



**Fig. 1**

3. The USB UPDATE mode is activated and “USB UPDATE” is displayed. Writing of the firmware starts automatically. (Fig. 2)

3. USB UPDATE モードが起動し、“USB UPDATE” が表示されて、ファームウェアの書き込みが自動的に開始されます。(Fig. 2)




**Fig. 2**

4. When writing of the firmware is completed, “Update Success”, “Please...” and “Power Off!” are displayed repeatedly. (Fig. 3)

4. ファームウェアの書き込み完了後、“Update Success”、“Please...”、“Power Off!” が繰り返し表示されます。(Fig. 3)

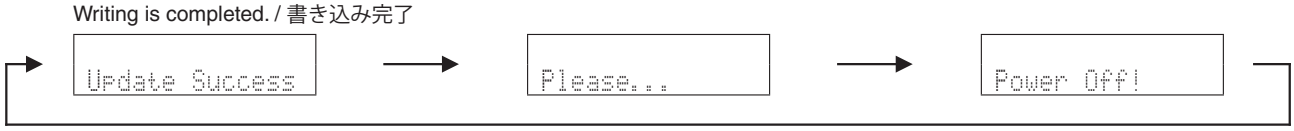



**Fig. 3**

5. Press the “MAIN ZONE ⏻” key to turn off the power. (Fig. 1)
6. Remove the USB storage device from the USB jack. (Fig. 1)
7. Start up the self-diagnostic function and check that the firmware version and checksum are the same as written ones. (See “Confirmation of firmware version and checksum”)

5. “MAIN ZONE ⏻” キーを押して電源を切ります。(Fig. 1)
6. USB 端子から USB フラッシュメモリーを抜きます。(Fig. 1)
7. ダイアグを起動し、ファームウェアのバージョンとチェックサムが、書き込まれたものと同じであることを確認します。(“ファームウェアのバージョンとチェックサムの確認” 参照)

# ■ SELF-DIAGNOSTIC FUNCTION / ダイアグ（自己診断機能）

This unit has self-diagnostic functions that are intended for inspection, measurement and location of faulty point.

There are 25 main menu items, each of which has sub-menu items.

Listed in the table below are main menu items and sub-menu items.

Note that not all menu items listed will apply to the models covered in this service manual.

本機には、検査、測定、不良個所の発見を目的にしたダイアグ（自己診断機能）があります。

ダイアグには 25 個のメインメニューがあり、そのそれぞれにサブメニューがあります。

下表はダイアグメニュー一覧です。

下表の全ダイアグメニュー項目が、このサービスマニュアル記載のモデルに適用されるとは限りません。

| No. | Main menu | No. | Sub-menu |
|---|---|---|---|
| **A:** Audio system | | | |
| A1 | DSP AUDIO | 1 | DSP MARGIN |
| | | 2 | DSP NON MARGIN |
| | | 3 | PLL OFF |
| | | 4 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 5 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 6 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 7 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| A2 | DIRECT AUDIO | 1 | ANALOG DIRECT VH |
| | | 2 | ANALOG DIRECT VL |
| A3 | HDMI AUDIO | 1 | HDMI AUTO |
| | | 2 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 3 | ARC1 |
| | | 4 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| A4 | SPEAKERS SET | 1 | BI-AMP |
| | | 2 | ZONE/TONE=MAX |
| | | 3 | ZONE/TONE=MIN |
| | | 4 | ZONE MONO ON |
| | | 5 | ZONE MONO OFF |
| | | 6 | D-PARTY MODE |
| | | 7 | FULL MUTE |
| | | 8 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 9 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 10 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| A5 | MULTI CHANNEL INPUT | 1 | 8 CHANNEL INPUT 8 ohms |
| | | 2 | 8 CHANNEL INPUT 6 ohms |
| A6 | MIC CHECK | 1 | MIC ROUTE CHECK |
| A7 | MANUAL TEST | 1 | TEST ALL |
| | | 2 | TEST FRONT L |
| | | 3 | TEST CENTER |
| | | 4 | TEST FRONT R |
| | | 5 | TEST SURROUND R |
| | | 6 | TEST SURROUND BACK R |
| | | 7 | TEST SURROUND BACK L |
| | | 8 | TEST SURROUND L |
| | | 9 | TEST FRONT PRESENCE L |
| | | 10 | TEST FRONT PRESENCE R |
| | | 11 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 12 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 13 | TEST LFE 1 |
| | | 14 | INVALID ITEM (Not for service / サービスでは使用しません ) |

| No. | Main menu | No. | Sub-menu |
|---|---|---|---|
| **D:** Display system | | | |
| D1 | FL CHECK | 1 | FL CHECK |
| | | 2 | ALL SEGMENT OFF |
| | | 3 | ALL SEGMENT ON |
| | | 4 | CHECK PATTERN 1 |
| | | 5 | CHECK PATTERN 2 |
| **Z:** Zone system | | | |
| Z1 | ZONE TEST | 1 | AV1 (Not for service / サービスでは使用しません ) |
| | | 2 | AV2 (Not for service / サービスでは使用しません ) |
| | | 3 | AV3 (Not for service / サービスでは使用しません ) |
| | | 4 | AV4 (Not for service / サービスでは使用しません ) |
| | | 5 | AUDIO1 |
| | | 6 | AUDIO2 |
| | | 7 | AUDIO3 |
| | | 8 | AUDIO4 |
| | | 9 | V-AUX |
| | | 10 | PHONO |
| **R:** Radio and satellite broadcasting system | | | |
| R1 | SIRIUS (U model) | 1 | SIRIUS |
| | | 2 | SR |
| | | 3 | SSP |
| | | 4 | MAC |
| | | 5 | ADP |
| | | 6 | PRDID |
| | | 7 | SEQID |
| | | 8 | POWER OFF |
| **U:** Universal system | | | |
| U1 | iPod | 1 | DOCK CHECK |
| U2 | USB | 1 | BF TEST 1kHz |
| | | 2 | BF TEST 20Hz (Not for service / サービスでは使用しません ) |
| | | 3 | BF TEST 20kHz (Not for service / サービスでは使用しません ) |
| | | 4 | USB FRONT 1 TRACK |
| | | 5 | USB FRONT 2 TRACK |
| **N:** Network system | | | |
| N1 | NETWORK | 1 | IP ADDRESS CHECK |
| | | 2 | MAC ADDRESS CHECK |
| | | 3 | LINE NOISE 10 (Not for service / サービスでは使用しません ) |
| | | 4 | LINE NOISE 100 (Not for service / サービスでは使用しません ) |
| | | 5 | EXT TEST |
| | | 6 | MAC ADDRESS |
| **C:** Communication system | | | |
| C1 | DIGITAL PCB CHECK | 1 | ALL |
| | | 2 | BUS FLASH ROM |
| | | 3 | BUS FPGA |
| | | 4 | I2C |
| | | 5 | FPGA RAM |
| | | 6 | BUS DIR |
| | | 7 | BUS DSP1 |
| | | 8 | EEPROM |
| | | 9 | RS-232C LOOP BACK CHECK |
| | | 10 | LINK CHECK |
| | | 11 | PHY TEST |

| No. | Main menu | No. | Sub-menu |
|---|---|---|---|
| C1 | DIGITAL PCB CHECK | 12 | I2C EEPROM |
| | | 13 | BUS RAM |
| | | 14 | SYNC SERIAL |
| | | 15 | CLOCK GENERATION |
| | | 16 | APL ID CHECK |
| C2 | INVALID ITEM (Not for service / サービスでは使用しません ) | | |
| C3 | HDMI INFORMATION | 1 | HDMI MODEL NAME |
| | | 2 | HDMI ID |
| **V:** Video system | | | |
| V1 | ANALOG VIDEO CHECK | 1 | ANALOG BYPASS |
| | | 2 | DIGITAL BYPASS |
| | | 3 | ZONE BYPASS |
| | | 4 | MUTE CHECK |
| | | 5 | TEST PATTERN |
| | | 6 | VIDEO IN |
| V2 | DIGITAL VIDEO CHECK | 1 | LOOPBACK TEST 1 |
| | | 2 | LOOPBACK TEST 2 |
| | | 3 | INVALID ITEM (Not for service / サービスでは使用しません ) |
| | | 4 | HDMI REPEAT |
| | | 5 | DIGITAL CVBS |
| | | 6 | DIGITAL Y/C |
| | | 7 | DIGITAL COMPONENT |
| | | 8 | DIGITAL COMPONENT SC |
| | | 9 | GUI-VIDEO OUT |
| V3 | TEST PATTERN | 1 | 480i |
| | | 2 | 480p |
| | | 3 | 720p 60Hz |
| | | 4 | 1080i 60Hz |
| | | 5 | 1080p 60Hz |
| | | 6 | 576i |
| | | 7 | 576p |
| | | 8 | 720p 50Hz |
| | | 9 | 1080i 50Hz |
| | | 10 | 1080p 50Hz |
| | | 11 | 1080p 24bit |
| | | 12 | 1080p 24bit 3D/FP |
| | | 13 | 720p 60Hz 3D/FP |
| | | 14 | 720p 50Hz 3D/FP |
| | | 15 | 1080i 60Hz 3D/SS |
| | | 16 | 1080i 50Hz 3D/SS |
| | | 17 | 720p 60Hz 3D/TB |
| | | 18 | 720p 50Hz 3D/TB |
| | | 19 | 1080p 24bit 3D/TB |
| **P:** Power and protection system | | | |
| P1 | SYSTEM MONITOR | 1 | DC |
| | | 2 | PS1/PS2 |
| | | 3 | TMA1/TMA2 |
| | | 4 | TMB3/TMB4 (Not for service / サービスでは使用しません ) |
| | | 5 | OUTPUT LEVEL |
| | | 6 | LIMITER CONTROL |
| | | 7 | L3 (J model) |
| | | 8 | KEY1/KEY2/KEY3 |



RX-A1010/RX-V1071

| No. | Main menu | No. | Sub-menu |
|---|---|---|---|
| P2 | PROTECTION HISTORY | 1 | HISTORY 1 |
| | | 2 | HISTORY 2 |
| | | 3 | HISTORY 3 |
| | | 4 | HISTORY 4 |
| **S:** System and version system | | | |
| S1 | FIRMWARE UPDATE | 1 | F/W UPDATE (Not for service / サービスでは使用しません ) |
| S2 | SET INFORMATION | 1 | MODEL |
| | | 2 | DESTINATION |
| | | 3 | DEBUG (Not for service / サービスでは使用しません ) |
| S3 | FACTORY PRESET | 1 | PRESET INH/RSRV |
| S4 | ROM VERSION/CHECKSUM | 1 | SYSTEM VERSION |
| | | 2 | MICROPROCESSOR VERSION |
| | | 3 | MICROPROCESSOR CHECKSUM |
| | | 4 | FLASH ROM VERSION |
| | | 5 | FLASH ROM CHECKSUM |
| | | 6 | BF VERSION |
| | | 7 | BF CHECKSUM |
| | | 8 | DSP1 VERSION |
| | | 9 | DSP1 CHECKSUM |
| | | 10 | DSP2 VERSION (Not for service / サービスでは使用しません ) |
| | | 11 | DSP2 CHECKSUM (Not for service / サービスでは使用しません ) |
| | | 12 | GUI VERSION |
| | | 13 | FPGA GUI VERSION |
| | | 14 | FPGA IP VERSION |
| | | 15 | SIRIUS VERSION (U model) |
| | | 16 | HQV VERSION |
| | | 17 | HD RADIO VERSION (U model) |

## ● Starting Self-Diagnostic Function

While pressing the “TONE/BALANCE” and “INFO” keys, press the “MAIN ZONE ⏻” key to turn on the power.

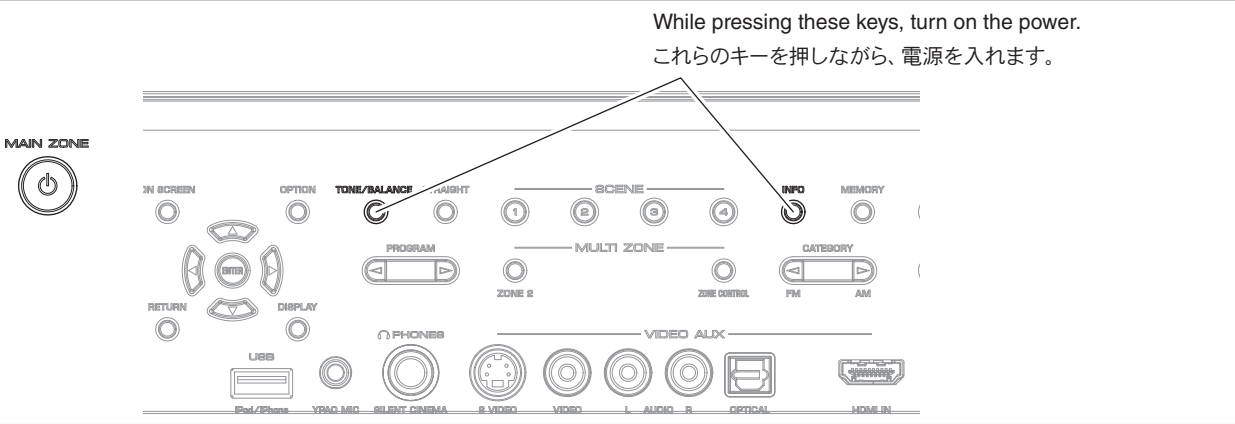
The self-diagnostic function mode is activated.

## ● ダイアグの起動

“TONE/BALANCE” と “INFO” キーを押しながら “MAIN ZONE ⏻” キーを押して電源を入れます。

ダイアグが起動します。

**Keys of this unit / 本機キー**




## ● Starting Self-Diagnostic Function in the protection cancel mode

If the protection function works and causes hindrance to trouble shoot, cancel the protection function as described below, and it will be possible to enter the self-diagnostic function mode. (The protection functions other than the excess current detect function will be disabled.)

While pressing the “TONE/BALANCE” and “INFO” keys, press the “MAIN ZONE ⏻” key to turn on the power and keep pressing those 2 keys for 3 seconds or longer.

The self-diagnostic function mode is activated with the protection functions disabled.

In this mode, the “SLEEP” segment of the FL display flashes to indicate that the mode is self-diagnostic function mode with the protection functions disabled.

**CAUTION!**
Using this product with the protection function disabled may cause further damage to this unit. Use special care for this point when using this mode.

## ● プロテクション解除モードでの起動

プロテクションが動作することにより、故障箇所の診断に支障をきたすような場合は、次の方法によりプロテクションを解除した状態でダイアグモードに入ることができます。（過電流検出以外のプロテクション動作を解除する）

“TONE/BALANCE” と “INFO” キーを押しながら “MAIN ZONE ⏻” キーを押して電源を入れ、2 つのキーを 3 秒以上押し続けます。

プロテクション解除モードでダイアグが起動します。

このモードでは FL の “SLEEP” セグメントが点滅し、プロテクションを解除した状態でのダイアグモードであることを知らせます。

**注意！**
プロテクションを解除した状態でのダイアグモードは、危険な状態でもプロテクションが作動しないため、動作させると、本機を破壊することがあります。このモードを使用する場合は十分注意してください。

## ● Canceling Self-Diagnostic Function

1. Before canceling self-diagnostic function, execute setting for “S3. FACTORY PRESET” menu. (Memory initialization inhibited or Memory initialized).
   * In order to keep the user memory preserved, be sure to select PRESET INHIBIT (Memory initialization inhibited).
2. Press the “MAIN ZONE ⏻” key to turn off the power.

## ● ダイアグの解除

1. ダイアグを解除する前に、“S3. FACTORY PRESET” メニュー（メモリーの初期化禁止／またはメモリーの初期化）の設定をします。
   ※ ユーザーメモリーを保持したい場合は、必ず PRESET INHIBIT（メモリー初期化禁止）を選択してください。
2. “MAIN ZONE ⏻” キーを押して電源を切ります。

## ● Display provided when Self-Diagnostic Function started

The display is as described below depending on the situation the last time the power to this unit is turned off.

**1. When the power is turned off by usual operation:**

“NO PROTECT” is displayed. “A1-1. DSP MARGIN” menu is displayed in a few seconds.

## ● ダイアグ起動時の表示

最後に本機の電源が切れたときの状況により、下記のように表示されます。

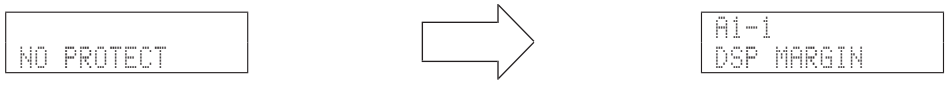
**1. 通常の操作で電源を切った場合：**

“NO PROTECT” が表示されます。数秒後、“A1-1 DSP MARGIN” メニューが表示されます。

Opening message / オープニング表示

Main menu display / メインメニュー表示

After a few seconds / 数秒後



**2. When the protection function worked to turn off the power:**

The data of protection function which worked at the moment is displayed. Then "A1-1. DSP MARGIN" menu is displayed in a few seconds.

Note: At that time if you reactivate the self-diagnostic function after turning off the power once by pressing the "MAIN ZONE ⏻" key, "NO PROTECT" will be displayed because that situation is equal to "1. When the power is turned off by usual operation:" described above.

However the protection function history is stored in a back-up IC with a backup. For details, refer to "P2 PROTECTION HISTORY" menu.

**2-1. When there is a history of protection function due to excess current.**




**Cause:** An excessive current flowed through the power amplifier.
**Supplementary information:** As over current of the power amplifier is detected, check condition of each power transistor.

Turning on the power without correcting the abnormality will cause the protection function to work immediately and the power supply will instantly be shut off.

**Notes)**

- **Applying the power to this unit without correcting the abnormality can be dangerous and cause additional circuit damage. To avoid this, if "I PROTECT" protection function works 1 time, the power will not turn on even when the "MAIN ZONE ⏻" key is pressed. In order to turn on the power again, start up the self-diagnostic function.**
- **The output transistors in each amplifier channel should be checked for damage before applying power to this unit.**
- **Amplifier current should be monitored by measuring DC voltage across the emitter resistors for each channel.**

**2. プロテクションが働いて電源が切れた場合：**

そのときに働いたプロテクションの情報が表示されます。数秒後、"A1-1 DSP MARGIN" メニューが表示されます。

注） このときに "MAIN ZONE ⏻" キーを押していったん電源を切った後にダイアグを再起動すると、前述の「1. 通常の操作で電源を切った場合」に相当するので、"NO PROTECT" が表示されます。

ただし、プロテクションの履歴はメモリーにバックアップして記憶されます。詳細は、"P2 PROTECTION HISTORY" メニューを参照してください。

**2-1. 過電流によるプロテクション履歴がある場合**

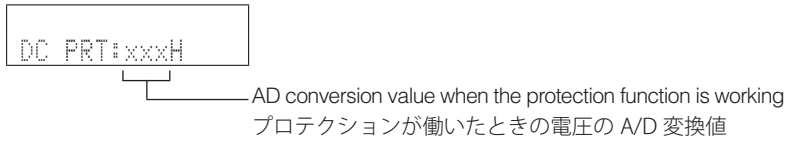
**原因：** パワーアンプに過電流が流れた。
**補足：** パワーアンプの過電流を検出していますので、各パワートランジスタの状態を確認してください。

異常状態のまま電源を入れると、瞬時にプロテクションが働き、すぐに電源が切れます。

**注意！**

- **異常状態のまま本機の電源を入れると、危険な状態になり、さらに回路が損傷を受ける原因になります。それを避けるために、「I PROTECT」が 1 回働いた場合、それ以降 "MAIN ZONE ⏻" キーを押しても電源が入らなくなります。再度電源を入れる場合、ダイアグを起動してください。**
- **本機の電源をいれる前に、各パワーアンプの出力トランジスタに損傷がないかチェックしてください。**
- **パワーアンプの電流は、各チャンネルのエミッターの抵抗器間 DC 電圧を測定することによりモニターしてください。**

### 2-2. When the protection function worked due to abnormal DC output.




**Cause:** DC output of the power amplifier is abnormal.
**Supplementary information:** The protection function worked due to a DC voltage appearing at the speaker terminal. A cause could be a defect in the amplifier.

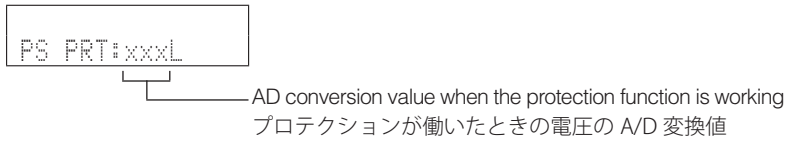
Turning on the power without correcting the abnormality will cause the protection function to work in 5 seconds and the power supply will be shut off.

### 2-2. DC 出力異常によりプロテクションが働いた場合

**原因：** パワーアンプの DC 出力が異常。
**補足：** アンプの故障でスピーカー端子に直流電圧が掛かるなどが原因で、プロテクションが働いたことを示します。

異常状態のまま電源を入れると、5 秒後にプロテクションが働き、電源が切れます。

### 2-3. When the protection function worked due to abnormal voltage in the power supply section.




**Cause:** The voltage in the power supply section is abnormal.
**Supplementary information:** The protection function worked due to a defect or overload in the power supply.

Turning on the power without correcting the abnormality will cause the protection function to work in 1 seconds and the power supply will be shut off.

### 2-3. 電源部の電圧異常によりプロテクションが働いた場合

**原因：** 電源部の電圧が異常。
**補足：** 電源電圧による原因で、プロテクションが働いたことを示します。

異常状態のまま電源を入れると、1 秒後にプロテクションが働き、電源が切れます。

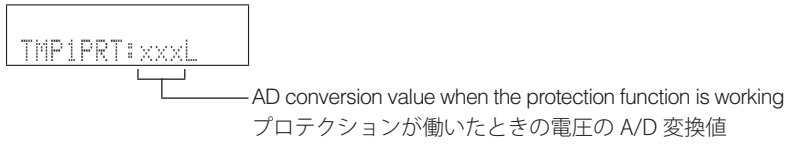
**Notes)**

- **Applying the power to this unit without correcting the abnormality can be dangerous and cause additional circuit damage. To avoid this, if "PS" and "DC" protection function works 3 times consecutively, the power will not turn on even when the "MAIN ZONE ⏻" key is pressed. In order to turn on the power again, start up the self-diagnostic function.**
- **The output transistors in each amplifier channel should be checked for damage before applying power to this unit.**
- **Amplifier current should be monitored by measuring DC voltage across the emitter resistors for each channel.**

**注意！**

- **異常状態のまま本機の電源を入れると、危険な状態になり、さらに回路が損傷を受ける原因になります。それを避けるために、「DC」、「PS」プロテクションが連続して 3 回目働いた場合、それ以降 "MAIN ZONE ⏻" キーを押しても電源が入らなくなります。再度電源を入れる場合、ダイアグを起動してください。**
- **本機の電源をいれる前に、各パワーアンプの出力トランジスタに損傷がないかチェックしてください。**
- **パワーアンプの電流は、各チャンネルのエミッターの抵抗器間 DC 電圧を測定することによりモニターしてください。**

### 2-4. When the protection function worked due to excessive heatsink temperature.




**Cause:** The temperature of the heatsink is excessive.
**Supplementary information:** The protection function worked due to the temperature limit being exceeded. Causes could be poor ventilation or a defect related to the thermal sensor.

Turning on the power without correcting the abnormality will cause the protection function to work in 1 seconds and the power supply will be shut off.

#### ● History of protection function

When the protection function has worked, its history is stored in memory with a backup.

Even if no abnormality is noted while servicing the unit, an abnormality which has occurred previously can be defined as long as the backup data has been stored.

For details, refer to “P2 PROTECTION HISTORY” menu.

### 2-4. ヒートシンクの異常温度によりプロテクションが働いた場合

**原因：** ヒートシンクの温度が異常。
**補足：** 温度制限を越えた原因で、プロテクションが働いたことを示します。

異常状態のまま電源を入れると、1 秒後にプロテクションが働き、電源が切れます。

#### ● プロテクションの履歴

プロテクションが働いた場合、その履歴をバックアップして記憶しています。

修理のときに異常が認められなくても、バックアップが残っていれば、お客様のところで起きた異常を区別できます。

詳細は、“P2 PROTECTION HISTORY” メニューを参照してください。

## ● Operation procedure of Main menu and Sub-menu

There are 25 main menu items, each of which has sub-menu items.

### Main menu selection

Select the main menu using “SCENE 2” (forward) and “SCENE 1” (reverse) keys.

### Sub-menu selection

Select the sub-menu using “SCENE 4” (forward) and “SCENE 3” (reverse) keys.

## ● メインメニューとサブメニューの操作

ダイアグには 25 個のメインメニューがあり、そのそれぞれにサブメニューがあります。

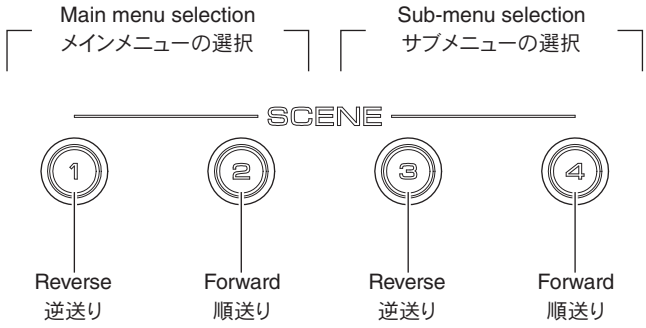
### メインメニューの選択

“SCENE 2”（順送り）、“SCENE 1”（逆送り）キーで選択します。

### サブメニューの選択

“SCENE 4”（順送り）、“SCENE 3”（逆送り）キーで選択します。

**Keys of this unit / 本機キー**




## ● Functions in Self-Diagnostic Function mode

In addition to the self-diagnostic function menu items, functions as listed below are available.

- Power ON/OFF
- Master volume
- Muting
- Input selection
- Zone control

* Functions related to the tuner and the set menu are not available.

## ● ダイアグ中の機能

ダイアグメニューの他に、以下の機能が動作します。

・ 電源　オン／オフ
・ マスターボリューム
・ ミューティング
・ インプットセレクト
・ ZONE コントロール

※　チューナー関連、セットメニュー関連は機能しません。

## ● Initial settings when Self-Diagnostic Function started

The following initial settings are used when starting self-diagnostic function.

When self-diagnostic function is canceled, these settings are restored to those before starting self-diagnostic function.

- Master volume: -20 dB / Zone volume: +2.5dB
- Input: HDMI1 / Zone input: AUDIO1
- Main menu: A1-1. DSP MARGIN
- Speaker setting: LARGE, Bass out to SWFR (All channels)
- HDMI Control: Off
- Zone 2: On

## ● ダイアグ開始時の初期設定

ダイアグ開始時に以下のような設定になります。

ダイアグ解除時にはダイアグ開始前の状態に戻ります。

・ マスターボリューム：　-20 dB
・ インプット：　HDMI1 ／ ZONE インプット：AUDIO1
・ メインメニュー：　A1-1. DSP MARGIN
・ スピーカー設定：　LARGE、Bass out to SWFR（すべてのチャンネル）
・ HDMI コントロール：　OFF
・ ZONE 2：　ON



RX-A1010/RX-V1071

## ● Details of Self-Diagnostic Function menu

### A1. DSP AUDIO

This menu is used to check audio signal route via DSP.

#### A1-1. DSP MARGIN

The audio signal is output including the head margin via DSP.

* When input source is stereo, signal is assigned as below.

Front L: Front L, Center, Surround L, Surround Back L
Front R: Front R, Surround R, Surround Back R
Front L +10 dB: Subwoofer




#### A1-2. DSP NON MARGIN

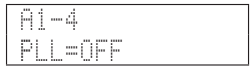
The SUBWOOFER signal is output including the head margin via DSP.

The audio signal other than SUBWOOFER is output without including the head margin via DSP.




#### A1-3. PLL OFF

The audio signal is output with the PLL (Phase Lock Loop, IC927) turned off via DSP.




#### A1-4. INVALID ITEM

Not for service.




## ● ダイアグメニュー詳細

### A1. DSP AUDIO

DSP を経由するオーディオ信号経路をチェックします。

#### A1-1. DSP MARGIN

音声信号が DSP を経由してヘッドマージンを含んで出力されます。

※ 2ch 信号入力時、以下のように信号が振り分けられて出力されます。

Front L： Front L、Center、Surround L、Surround Back L
Front R： Front R、Surround R、Surround Back R
Front L +10 dB：Subwoofer

#### A1-2. DSP NON MARGIN

サブウーファーの音声信号が DSP を経由してヘッドマージンを含んで出力されます。

サブウーファー以外の音声信号は DSP を経由してヘッドマージンを含まず出力されます。

#### A1-3. PLL OFF

音声信号が DSP を経由して PLL（Phase Lock Loop、IC927）をオフにして出力されます。

#### A1-4. INVALID ITEM

サービスでは使用しません。

**A1-5. INVALID ITEM**

Not for service.

**A1-5. INVALID ITEM**

サービスでは使用しません。

```
A1-5
INVALID ITEM
```

**A1-6. INVALID ITEM**

Not for service.

**A1-6. INVALID ITEM**

サービスでは使用しません。

```
A1-6
INVALID ITEM
```

**A1-7. INVALID ITEM**

Not for service.

**A1-7. INVALID ITEM**

サービスでは使用しません。

```
A1-7
INVALID ITEM
```

## A2. DIRECT AUDIO

This menu is used to check audio signal route of PURE DIRECT mode.

### A2-1. DIRECT VH

The analog input audio signal is output to FRONT L/R in PURE DIRECT mode.

VH: Voltage of power amplifier (± B) High,
RY109 on MAIN P.C.B.: Off

## A2. DIRECT AUDIO

PURE DIRECT モードのオーディオ信号経路をチェックします。

### A2-1. DIRECT VH

アナログ入力の音声信号が PURE DIRECT で FRONT L/R へ出力されます。

VH：Voltage of power amplifier（±B）High、
MAIN P.C.B. の RY109：Off

```
A2-1
DIRECT :VH
```

INPUT: AV5 ANALOG
SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Sub-menu | Input level | Volume | SPEAKERS OUTPUT | | | | | SUBWOOFER OUTPUT |
|---|---|---|---|---|---|---|---|---|
| | | | FRONT | CENTER | SURROUND | SURROUND BACK/BI-AMP | F.PRESENCE/ ZONE2 | |
| ANALOG DIRECT | Both ch, -20 dBm | +6.5 dB | +13.0 dBm | - ∞ | - ∞ | - ∞ | – | - ∞ |

### A2-2. DIRECT VL

The analog input audio signal is output to FRONT L/R in PURE DIRECT mode.

VL: Voltage of power amplifier (± B) Low,
RY109 on MAIN P.C.B.: On

### A2-2. DIRECT VL

アナログ入力の音声信号が PURE DIRECT で FRONT L/R へ出力されます。

VL：Voltage of power amplifier（± B）Low、
MAIN P.C.B. の RY109：On




INPUT: AV5 ANALOG
SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Sub-menu | Input level | Volume | SPEAKERS OUTPUT | | | | | SUBWOOFER OUTPUT |
|---|---|---|---|---|---|---|---|---|
| | | | FRONT | CENTER | SURROUND | SURROUND BACK/BI-AMP | F.PRESENCE/ ZONE2 | |
| ANALOG DIRECT | Both ch, -20 dBm | +6.5 dB | +13.0 dBm | - ∞ | - ∞ | - ∞ | – | - ∞ |

## A3. HDMI AUDIO

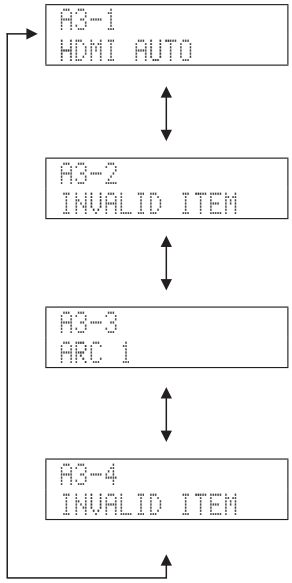
This menu is used to check the route of audio signal input to HDMI IN/OUT.

* Before check using “A3-3. ARC 1” menu, be sure to connect a TV monitor equipped with Audio Return Channel function to this unit in advance.

## A3. HDMI AUDIO

HDMI IN/OUT に入力されたオーディオ信号の経路をチェックします。

※ “A3-3. ARC 1” メニューでのチェックの前に、あらかじめ必ず Audio Return Channel 機能に対応しているテレビを接続してください。




**A3-1. HDMI AUTO**

The audio signal input to selected HDMI IN is output.

選択された HDMI IN に入力された音声信号が出力されます。

**A3-2. INVALID ITEM**

Not for service.

サービスでは使用しません。

**A3-3. ARC 1 (Audio Return Channel function)**

The audio signal input from HDMI OUT1 is output.

HDMI OUT1 から入力された音声信号が出力されます。

**A3-4. INVALID ITEM**

Not for service.

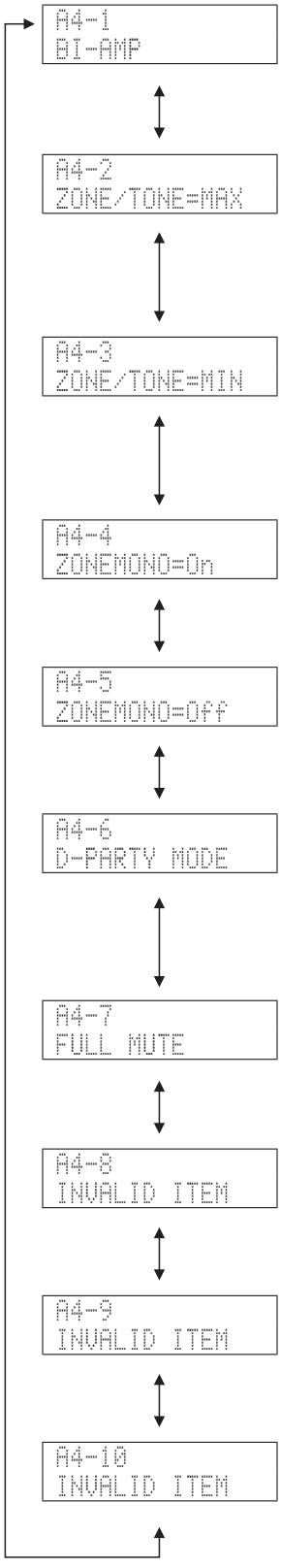
サービスでは使用しません。

## A4. SPEAKERS SET

This menu is used to check the speaker output.

## A4. SPEAKERS SET

スピーカー出力をチェックします。




**A4-1. BI-AMP**

The FRONT L/R signal is distributed to SURROUND BACK L/R terminals.

FRONT L/R の信号が SURROUND BACK L/R 端子へ振り分けられて出力されます。

**A4-2. ZONE/TONE=MAX**

The audio signal is output to FRONT L/R, CENTER and SURROUND L/R terminals with the tone control "BASS +10 dB", "TREBLE +10 dB".

音声信号がトーンコントロール“BASS +10 dB”、“TREBLE +10 dB”で FRONT L/R、CENTER、SURROUND L/R 端子へ出力されます。

**A4-3. ZONE/TONE=MIN**

The audio signal is output to FRONT L/R, CENTER and SURROUND L/R terminals with the tone control "BASS -10 dB", "TREBLE -10 dB".

音声信号がトーンコントロール“BASS -10 dB”、“TREBLE -10 dB”で FRONT L/R、CENTER、SURROUND L/R 端子へ出力されます。

**A4-4. ZONE MONO ON**

The audio signal is output to ZONE2 L/R terminal in monaural.

音声信号が ZONE2 L/R 端子へモノラルで出力されます。

**A4-5. ZONE MONO OFF**

The audio signal is output to ZONE2 L/R terminal in stereo.

音声信号が ZONE2 L/R 端子へステレオで出力されます。

**A4-6. D-PARTY MODE**

The FRONT L/R signal is distributed to ZONE2 L/R terminal.

ZONE2 volume: -3.5 dB

FRONT L/R の信号が ZONE2 L/R 端子へ振り分けられて出力されます。

ZONE2 volume：-3.5 dB

**A4-7. FULL MUTE**

The audio signals are muted at all channels.

音声信号がすべてのチャンネルでミュートされます。

**A4-8. INVALID ITEM**

Not for service.

**A4-9. INVALID ITEM**

Not for service.

**A4-10. INVALID ITEM**

Not for service.

INPUT: AV5 ANALOG
SPEAKER OUT: 1 kHz, SUBWOOFER OUTPUT: 50 Hz

| Sub-menu | Input level | Volume | SPEAKERS OUTPUT | | | | | SUB-WOOFER OUTPUT |
|---|---|---|---|---|---|---|---|---|
| | | | FRONT | CENTER | SURROUND | SURROUND BACK | F.PRESENCE/ ZONE2 | |
| A4-1. BI-AMP | Both ch, -20 dBm | +6.5 dB | +13.0 dBm | +13.0 dBm | +13.0 dBm | +13.0 dBm | +13.0 dBm | -7.5 dBm |
| A4-2. ZONE/TONE=MAX | Both ch, -20 dBm | +6.5 dB | +14.0 dBm | +13.0 dBm | +13.0 dBm | +13.0 dBm | +13.0 dBm | -7.5 dBm |
| A4-3. ZONE/TONE=MIN | Both ch, -20dBm | +6.5 dB | +12.0 dBm | +13.0 dBm | +13.0 dBm | +13.0 dBm | +13.0 dBm | -7.5 dBm |
| A4-4. ZONE MONO ON | Both ch, -20 dBm | +6.5 dB | – | – | – | – | – | – |
| A4-5. ZONE MONO OFF | Both ch, -20 dBm | +6.5 dB | – | – | – | – | – | – |
| A4-6. D-PARTY MODE | Both ch, -20 dBm | +6.5 dB | +13.0 dBm | +13.0 dBm | +13.0 dBm | +13.0 dBm | +13.0 dBm | -7.5 dBm |
| A4-7. FULL MUTE | Both ch, -20 dBm | +6.5 dB | - ∞ | - ∞ | - ∞ | - ∞ | - ∞ | - ∞ |
| A4-8. INVALID ITEM (Not for service / サービスでは使用しません ) | Both ch, -20 dBm | +6.5 dB | – | – | – | – | – | – |
| A4-9. INVALID ITEM (Not for service / サービスでは使用しません ) | Both ch, -20 dBm | +6.5 dB | – | – | – | – | – | – |
| A4-10. INVALID ITEM (Not for service / サービスでは使用しません ) | Both ch, -20 dBm | +6.5 dB | – | – | – | – | – | – |

## A5. MULTI CHANNEL INPUT

This menu is used to check the route of audio signal input to MULTI CHANNEL INPUT.

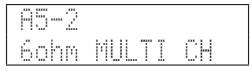
### A5-1. 8 CHANNEL INPUT 8 ohms

The audio signal input to MULTI CHANNEL INPUT is output with the speaker impedance “8 ohms” setting.




### A5-2. 8 CHANNEL INPUT 6 ohms

The audio signal input to MULTI CHANNEL INPUT is output with the speaker impedance “6 ohms” setting.




## A5. MULTI CHANNEL INPUT

MULTI CHANNEL INPUT に入力されたオーディオ信号の経路をチェックします。

### A5-1. 8 CHANNEL INPUT 8 ohms

MULTI CHANNEL INPUT に入力された音声信号がスピーカーインピーダンス “8 オーム” の設定で出力されます。

### A5-2. 8 CHANNEL INPUT 6 ohms

MULTI CHANNEL INPUT に入力された音声信号がスピーカーインピーダンス “6 オーム” の設定で出力されます。

## A6. MIC CHECK

### A6-1. MIC ROUTE CHECK

The signals input through the YPAO microphone are output to FRONT L and FRONT R channels via A/D-D/A.

## A6. MIC CHECK

### A6-1. MIC ROUTE CHECK

YPAO マイクに入力された信号が A/D ー D/A 経由で FRONT L、FRONT R チャンネルへ出力されます。



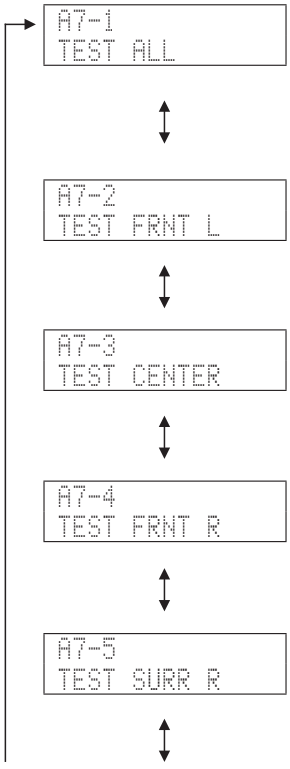

## A7. MANUAL TEST

The built-in noise generator of DSP outputs the test noise or test tone through the channels specified by using the sub-menu.

## A7. MANUAL TEST

DSP 内蔵のノイズ発生回路によって、サブメニューで指定したチャンネルへテストノイズ・テストトーンが出力されます。

| | Test noise / テストノイズ | Test tone / テストトーン |
|---|---|---|
| for LFE / LFE 用 | 30 Hz to 80 Hz<br>pink noise / ピンクノイズ | 50 Hz<br>sine wave / 正弦波 |
| for other than LFE / LFE 以外 | 500 Hz to 2 kHz<br>pink noise / ピンクノイズ | 1 kHz<br>sine wave / 正弦波 |




**A7-1. TEST ALL**

The test noise is output to FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R and LFE 1 (SUBWOOFER) channels.

テストノイズが FRONT L/R、CENTER、SURROUND L/R、SURROUND BACK L/R、LFE 1（SUBWOOFER）チャンネルへ出力されます。

**A7-2. TEST FRONT L**

The test tone is output to FRONT L channel.

テストトーンが FRONT L チャンネルへ出力されます。

**A7-3. TEST CENTER**

The test tone is output to CENTER channel.

テストトーンが CENTER チャンネルへ出力されます。

**A7-4. TEST FRONT R**

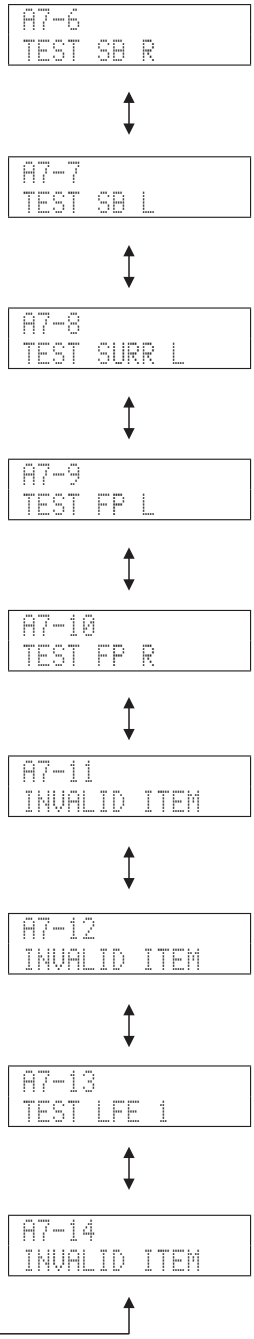
The test tone is output to FRONT R channel.

テストトーンが FRONT R チャンネルへ出力されます。

**A7-5. TEST SURROUND R**

The test tone is output to SURROUND R channel.

テストトーンが SURROUND R チャンネルへ出力されます。




**A7-6. TEST SURROUND BACK R**

The test tone is output to SURROUND BACK R channel.

テストトーンが SURROUND BACK R チャンネルへ出力されます。

**A7-7. TEST SURROUND BACK L**

The test tone is output to SURROUND BACK L channel.

テストトーンが SURROUND BACK L チャンネルへ出力されます。

**A7-8. TEST SURROUND L**

The test tone is output to SURROUND L channel.

テストトーンが SURROUND L チャンネルへ出力されます。

**A7-9. TEST FRONT PRESENCE L**

The test tone is output to FRONT PRESENCE L channel.

テストトーンが FRONT PRESENCE L チャンネルへ出力されます。

**A7-10. TEST FRONT PRESENCE R**

The test tone is output to FRONT PRESENCE R channel.

テストトーンが FRONT PRESENCE R チャンネルへ出力されます。

**A7-11. INVALID ITEM**

Not for service.

サービスでは使用しません。

**A7-12. INVALID ITEM**

Not for service.

サービスでは使用しません。

**A7-13. TEST LFE 1**

The test tone is output to LFE 1 (SUBWOOFER) channel.

テストトーンが LFE 1（SUBWOOFER）チャンネルへ出力されます。

**A7-14. INVALID ITEM**

Not for service.

サービスでは使用しません。

## D1. FL CHECK

This menu is used to check the FL display.

## D1. FL CHECK

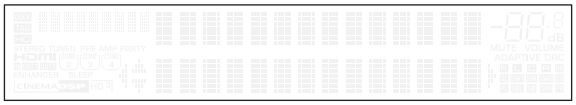
FL 表示をチェックします。

**FL display / FL 表示**

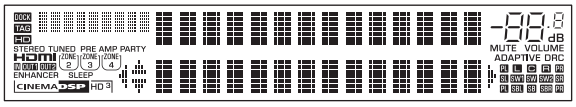
**D1-1. INITIAL DISPLAY / 初期表示**




**D1-2. ALL SEGMENT OFF / 全セグメント消灯**

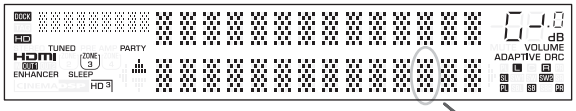


**D1-3. ALL SEGMENT ON / 全セグメント点灯**




* After check, change to next sub-menu at once.
確認後、すみやかに次のサブメニューを選択してください。

**D1-4. CHECK PATTERN 1 / チェックパターン 1**




Example/ 例

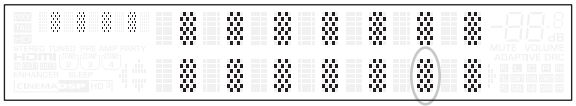
Lighting on segments in lattice.
セグメント格子状点灯



Short
ショート

Normal
正常

**D1-5. CHECK PATTERN 2 / チェックパターン 2**



Segment conditions of the FL tube is checked by turning ON and OFF all segments.

Next, a short between segments next to each other is checked by turning ON and OFF all segments alternately (in lattice).

(In the above example, the segments in the second row from the top are shorted.)

全セグメント消灯・全セグメント点灯により FL 管のセグメントの不良を確認します。

次に、全セグメントを交互（格子状）に点灯／消灯することで、隣り合うセグメントのショートをチェックします。

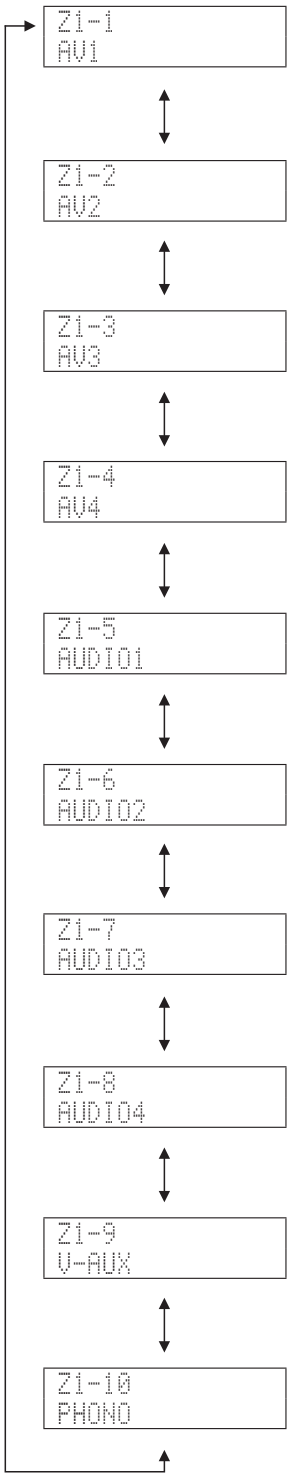
（上記の例は、上から 2 列目のセグメントがショートしています。）

## Z1. ZONE TEST

This menu is used to check audio signal route to ZONE 2 PRE OUT.

## Z1. ZONE TEST

ZONE 2 PRE OUT へのオーディオ信号経路をチェックします。




**Z1-1. AV1**

Not for service.

サービスでは使用しません。

**Z1-2. AV2**

Not for service.

サービスでは使用しません。

**Z1-3. AV3**

Not for service.

サービスでは使用しません。

**Z1-4. AV4**

Not for service.

サービスでは使用しません。

**Z1-5. AUDIO 1**

The audio signal input to AUDIO 1 is output to ZONE 2 PRE OUT.

AUDIO 1 に入力された音声信号が ZONE2 PRE OUT へ出力されます。

**Z1-6. AUDIO 2**

The audio signal input to AUDIO 2 is output to ZONE 2 PRE OUT.

AUDIO 2 に入力された音声信号が ZONE2 PRE OUT へ出力されます。

**Z1-7. AUDIO 3**

The audio signal input to AUDIO 3 is output to ZONE 2 PRE OUT.

AUDIO 3 に入力された音声信号が ZONE2 PRE OUT へ出力されます。

**Z1-8. AUDIO 4**

The audio signal input to AUDIO 4 is output to ZONE 2 PRE OUT.

AUDIO 4 に入力された音声信号が ZONE2 PRE OUT へ出力されます。

**Z1-9. V-AUX**

The audio signal input to VIDEO AUX is output to ZONE 2 PRE OUT.

VIDEO AUX に入力された音声信号が ZONE2 PRE OUT へ出力されます。

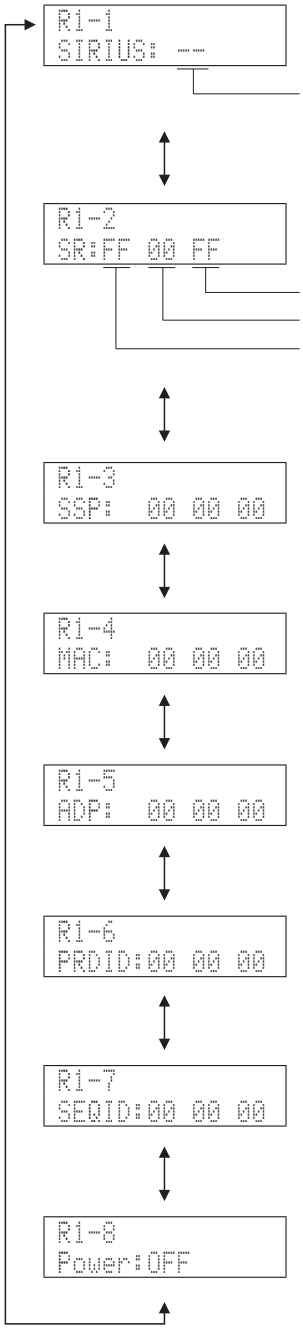
**Z1-10. PHONO**

The audio signal input to PHONO is output to ZONE 2 PRE OUT.

PHONO に入力された音声信号が ZONE2 PRE OUT へ出力されます。

## R1. SIRIUS (U model)

The SIRIUS information are displayed.




**R1-1. SIRIUS**

Connection of the SIRIUS antenna module is checked.

OK : Normal
NG : Abnormal
- - : No connected

**R1-2. SR**

The connection information of the SIRIUS antenna module is displayed.

The result of antenna diagnostic mode (status)
Antenna error history (SSP Error Codes)
Antenna generation (gen_ID)

**R1-3. SSP**

The SIRIUS version #0 (SSP) is displayed.

**R1-4. MAC**

The SIRIUS version #1 (MAC) is displayed.

**R1-5. ADP**

The SIRIUS version #2 (ADP) is displayed.

**R1-6. PRDID**

The PRD ID (Product ID) is displayed.

**R1-7. SEQID**

The SEQ ID (Sequence ID) is displayed.

**R1-8. POWER OFF**

The SIRIUS power is turned off.



RX-A1010/RX-V1071

## U1. iPod

This menu is used to check the DOCK jack/iPod authentication IC without connecting the iPod itself.

### U1-1. DOCK CHECK

With the power turned off, short the pins of the DOCK jack as shown in the figure below.

Start up the self-diagnostic function and select this menu.

The check result is displayed according to the following display specifications.

**Note) Be sure to return the shorted pins to their original condition after executing this test.**

## U1. iPod

iPod 本体を接続しないで、DOCK 端子／ iPod 認証 IC の検査を行うメニューです。

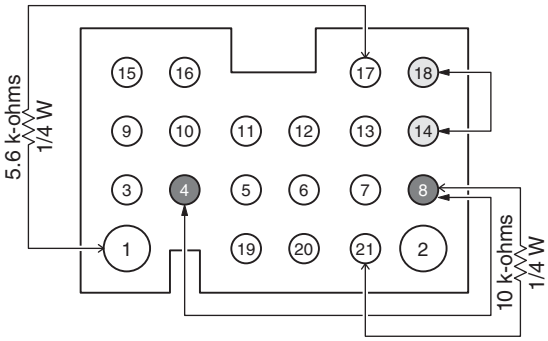
### U1-1. DOCK CHECK

電源を切った状態で、下図のように DOCK 端子のピンをショートします。

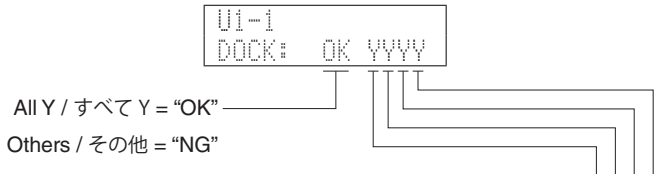
ダイアグを起動して本メニューを選択します。

下記表示仕様に従って、チェック結果が表示されます。

**注意） 検査後、ショートしたピンを必ず元の状態に戻してください。**




**DOCK jack**




| Shorted pins / ショートピン | Check item / チェック項目 | Result / 結果 | | Display / 表示 |
|---|---|---|---|---|
| 14 – 18 | UART loop back test<br>UART ループバックテスト | OK | | Y |
| | | NG | | N |
| 1 – 17<br>(5.6 k-ohms, 1/4W) | DK1_AP (iPod accessory power) detection<br>DK1_AP（iPod accessory power）検出 | IC81<br>pin No. 79 | High = YES | Y |
| | | | Low = No | N |
| 4 – 8 | DK1_N_IPDET (iPod installation to DOCK) detection<br>DK1_N_IPDET（iPod installation to DOCK）検出 | IC81<br>pin No. 42 | Low = installed / 装着 | Y |
| | | | High = not installed / 非装着 | N |
| 8 – 21<br>(10 k-ohms, 1/4W) | DK1_ID (DOCK ID) detection<br>DK1_ID（DOCK ID）検出 | IC89<br>pin No. 13 | 10 k-ohms, 1/4 W pull down | Y |
| | | | Other | N |

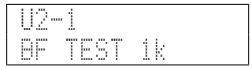
## U2. USB

This menu is used to check audio signal route of USB.

### U2-1. BF (NETWORK microprocessor) TEST 1kHz

The built-in noise generator of BF (IC901 on DIGITAL P.C.B.) outputs the 1 kHz sine wave.

Output: From Front L/R, Center, Surround L/R, Surround Back L/R



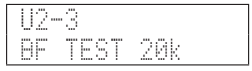

### U2-2. BF (NETWORK microprocessor) TEST 20Hz

Not for service.




### U2-3. BF (NETWORK microprocessor) TEST 20kHz

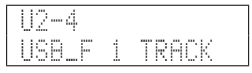
Not for service.




### U2-4. USB FRONT 1 TRACK

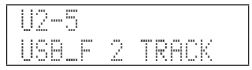
The 1st music file stored in the USB storage device connected to the USB jack is reproduced.

* Copy 2 or more music files from PC to the root folder of the USB storage device in advance.




### U2-5. USB FRONT 2 TRACK

The 2nd music file stored in the USB storage device connected to the USB jack is reproduced.




## U2. USB

USB のオーディオ信号経路をチェックします。

### U2-1. BF（NETWORK マイコン）TEST 1kHz

BF（DIGITAL P.C.B. の IC901）内蔵のノイズ発生回路によって、1 kHz のサイン波が出力されます。

出力先： Front L/R、Center、Surround L/R、Surround Back L/R

### U2-2. BF（NETWORK マイコン）TEST 20Hz

サービスでは使用しません。

### U2-3. BF（NETWORK マイコン）TEST 20kHz

サービスでは使用しません。

### U2-4. USB FRONT 1 TRACK

USB 端子に接続された USB フラッシュメモリーの音楽ファイルの 1 曲目が再生されます。

※ あらかじめ PC から USB フラッシュメモリーのルートフォルダに音楽ファイルを 2 曲以上コピーしてください。

### U2-5. USB FRONT 2 TRACK

USB 端子に接続された USB フラッシュメモリーの音楽ファイルの 2 曲目が再生されます。



RX-A1010/RX-V1071

## N1. NETWORK

This menu is used to check functions related to NETWORK.

Connect between NETWORK jack of this unit and LAN port of broadband router with a network cable.

* When the network condition varies while sub-menu is displayed (e.g., the network is deactivated once), the correct result will not be displayed.
In that case, once turn off the power to this unit, then start up the self-diagnostic function again and select this menu.

### N1-1. IP ADDRESS CHECK

This menu is used to check that IP address can be obtained.




OK: Connected (IP address obtained)

NG: No traffic / Disconnected

### N1-2. MAC ADDRESS CHECK

This menu is used to check that MAC address is written.




OK: Normal

NG: Unwritten

### N1-3. LINE NOISE 10

Not for service.




## N1. NETWORK

ネットワークに関連する機能をチェックします。

本機の NETWORK 端子とブロードバンドルーターの LAN ポートをネットワークケーブルで接続します。

※ サブメニュー表示中にネットワークの状態が変わると（たとえばネットワークが一時切れるなど）正しい結果が表示されません。
その場合、一度本機の電源を切り、ダイアグを再起動して本メニューを選択します。

### N1-1. IP ADDRESS CHECK

IP アドレスが取得されていることをチェックします。




OK: Connected (IP address obtained)
接続（IP アドレス取得完了）

NG: No traffic / Disconnected
通信不能 ／ 接続が切れている

### N1-2. MAC ADDRESS CHECK

MAC アドレスが書き込まれていることをチェックします。




OK: Normal / 正常

NG: Unwritten / 書き込まれていない

### N1-3. LINE NOISE 10

サービスでは使用しません。

### N1-4. LINE NOISE 100

Not for service.

### N1-4. LINE NOISE 100

サービスでは使用しません。

```
N1-4
LINE NOISE 100
```

### N1-5. EXT TEST

Transmission/reception of the NETWORK jack is checked.

With the power turned off, short the pins of the NETWORK jack as shown in the figure below.

Start up the self-diagnostic function and select this menu.

Transmission/reception test is executed and its result is displayed.

**Note) Be sure to return the shorted pins to their original condition after executing this test.**

### N1-5. EXT TEST

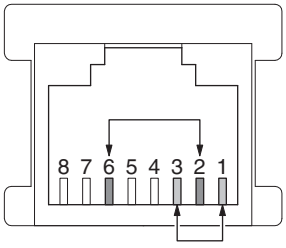
NETWORK 端子の送受信テストを行います。

電源を切った状態で、下図のように NETWORK 端子のピンをショートさせます。

ダイアグを起動して本メニューを選択します。

送受信テストを行い、その結果が表示されます。

**注意） 検査後、ショートしたピンを必ず元の状態に戻してください。**




**NETWORK jack**

```
N1-5
EXT TEST:OK
```

OK: Normal / 正常
NG: Abnormal / 異常
--: Checking / チェック中

### N1-6. MAC ADDRESS

Written MAC address is displayed.

### N1-6. MAC ADDRESS

書き込まれている MAC アドレスが表示されます。

```
N1-6
00A0DExxxxxx
```



RX-A1010/RX-V1071

## C1. DIGITAL P.C.B. CHECK

This menu is used to check the communication and bus line connection between devices on DIGITAL P.C.B.

### C1-1. ALL

The synthetic judgment result of sub-menu C1-2 to C1-16 is displayed.

## C1. DIGITAL P.C.B. CHECK

DIGITAL P.C.B. の各デバイス間の通信・バスラインの接続をチェックします。

### C1-1. ALL

サブメニュー C1-2 ～ C1-16 の総合判定結果を表示します。




When test result using the "C1-9. RS-232C LOOP BACK CHECK" menu or "C1-10. LINK CHECK" menu is NG, "Ext. JIG" is displayed.

"C1-9. RS-232C LOOP BACK CHECK" メニュー、"C1-10. LINK CHECK" メニューのテスト結果が NG の場合、「Ext. JIG」が表示されます。

OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-2. BUS FLASH ROM

Reading/writing FLASH ROM (IC904) are checked.

### C1-2. BUS FLASH ROM

FLASH ROM（IC904）の読み出し・書き込みをチェックします。




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-3. BUS FPGA

Communication and bus line connection between microprocessor (IC81) and FPGA (IC51) are checked.

### C1-3. BUS FPGA

マイコン（IC81）と FPGA（IC51）の通信・バスラインの接続をチェックします。



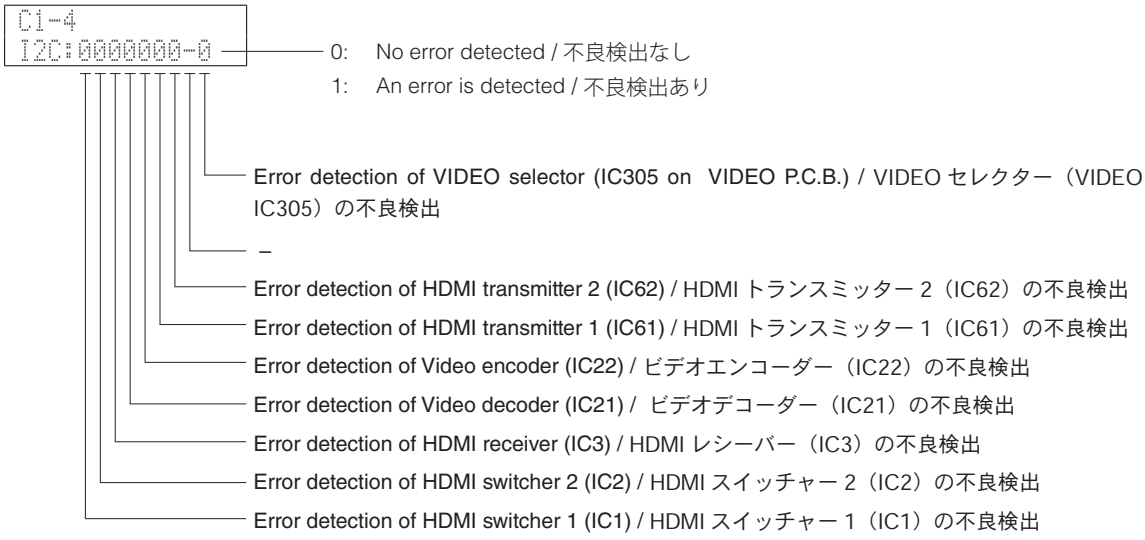

OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-4. I2C

The I2C (Inter integrated route) bus line connection is checked.

### C1-4. I2C

I2C（Inter integrated route）バスラインの接続をチェックします。

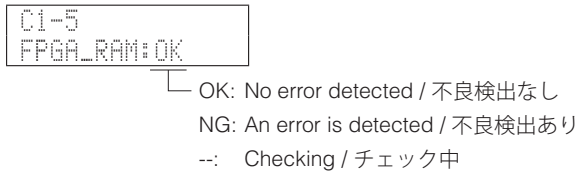



### C1-5. FPGA RAM

Reading/writing SDRAM (IC52) are checked.

### C1-5. FPGA RAM

SDRAM（IC52）の読み出し・書き込みをチェックします。




### C1-6. BUS DIR

Communication and bus line connection between microprocessor (IC81) and DIR (IC924) are checked.

### C1-6. BUS DIR

マイコン（IC81）と DIR（IC924）の通信・バスラインの接続をチェックします。

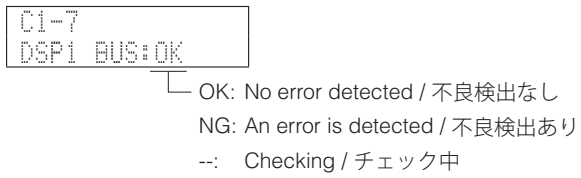



### C1-7. BUS DSP1

Communication and bus line connection between microprocessor (IC81) and DSP1 (IC921) are checked.

### C1-7. BUS DSP1

マイコン（IC81）と DSP1（IC921）の通信・バスラインの接続をチェックします。






RX-A1010/RX-V1071

### C1-8. EEPROM

Reading EEPROM (IC83) is checked.

### C1-8. EEPROM

EEPROM（IC83）の読み出しをチェックします。




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-9. RS-232C DATA CHECK

Not for service.

### C1-9. RS-232C DATA CHECK

サービスでは使用しません。




### C1-10. LINK CHECK

LAN cable connection is checked.

Connect between NETWORK jack of this unit and LAN port of broadband router with a network cable.

* When the network condition varies while sub-menu is displayed (e.g., the network is deactivated once), the correct result will not be displayed. In that case, once turn off the power to this unit, then start up the self-diagnostic function again and select this menu.

### C1-10. LINK CHECK

LAN ケーブルの接続状態をチェックします。

本機の NETWORK 端子とブロードバンドルーターの LAN ポートをネットワークケーブルで接続します。

※ サブメニュー表示中にネットワークの状態が変わると（たとえばネットワークが一時切れるなど）正しい結果が表示されません。その場合、一度本機の電源を切り、ダイアグを再起動して本メニューを選択します。




OK: Normal / 正常
NG: Disconnected / 接続が切れている
--: Checking / チェック中

### C1-11. PHY TEST

Communication and bus line connection between PHY (IC906) and BF (NETWORK microprocessor, IC901) are checked.

### C1-11. PHY TEST

PHY（IC906）と BF（NETWORK マイコン、IC901）の通信・バスラインの接続をチェックします。




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-12. I2C EEPROM

Communication and bus line connection between microprocessor (IC81) and EEPROM (IC83) are checked.

### C1-12. I2C EEPROM

マイコン（IC81）と EEPROM（IC83）の通信・バスラインの接続をチェックします。




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-13. BUS RAM

Communication and bus line connection between RAM (IC902, IC903) and BF (NETWORK microprocessor, IC901) are checked.

### C1-13. BUS RAM

RAM（IC902、IC903）と BF（NETWORK マイコン、IC901）の通信・バスラインの接続をチェックします。




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-14. SYNC SERIAL

Communication and bus line connection between microprocessor (IC81) and BF (NETWORK microprocessor, IC901) are checked.

### C1-14. SYNC SERIAL

マイコン（IC81）と BF（NETWORK マイコン、IC901）の通信・バスラインの接続をチェックします。




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-15. CLOCK GENERATION

Reading CLOCK IC (IC908) is checked.

### C1-15. CLOCK GENERATION

CLOCK IC（IC908）の読み出しをチェックします。




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

### C1-16. APL ID CHECK

APPLE coprocessor (IC908) device ID is checked.

### C1-16. APL ID CHECK

APPLE コプロセッサー（IC908）のデバイス ID をチェックします。



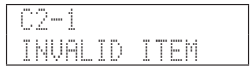

OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / チェック中

## C2. INVALID ITEM

Not for service.

## C2. INVALID ITEM

サービスでは使用しません。




## C3. HDMI INFORMATION

This menu is used to display information about HDMI.

### C3-1. HDMI MODEL NAME

The model name of this unit written in HDMI module is displayed.

RX-A1010

RX-V1071

## C3. HDMI INFORMATION

HDMI に関する情報が表示されます。

### C3-1. HDMI MODEL NAME

HDMI モジュールに書き込まれている本機のモデル名が表示されます。

RX-A1010




### C3-2. HDMI PRODUCT ID

The product ID of this unit written in HDMI module is displayed.

RX-A1010 : 3164

RX-V1071 : 315C

### C3-2. HDMI PRODUCT ID

HDMI モジュールに書き込まれている本機のプロダクト ID が表示されます。

RX-A1010 ：3164



## V1. ANALOG VIDEO CHECK

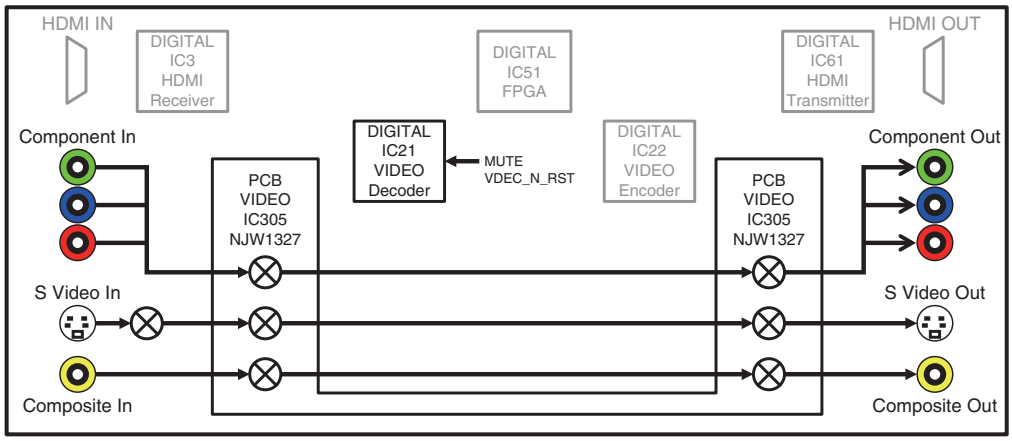
This menu is used to check the analog video signal route.

### V1-1. ANALOG BYPASS

The video signal is directly transferred and output as shown below.

V1-1
ANALOG BYPASS

ANALOG BYPASS

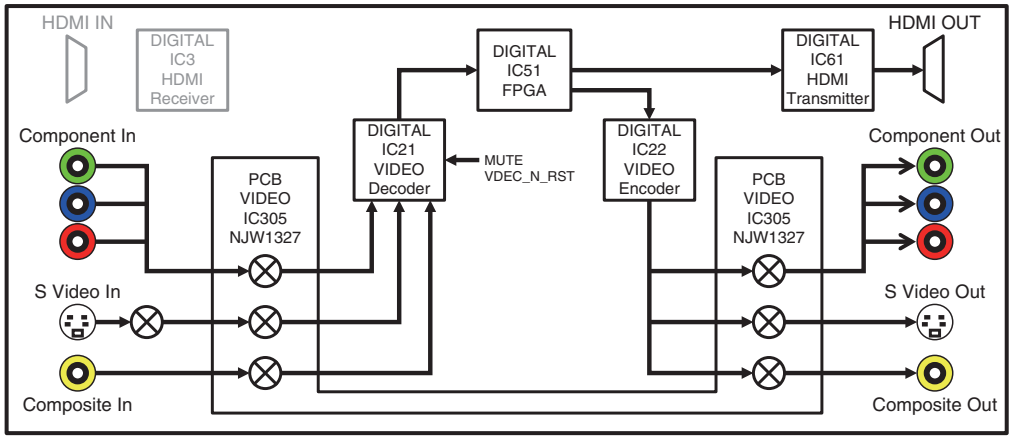



### V1-2. DIGITAL BYPASS

The video signal is converted and output as shown below.

V1-2
DIGITAL BYPASS

DIGITAL BYPASS




## V1. ANALOG VIDEO CHECK

アナログ映像信号の経路をチェックします。

### V1-1. ANALOG BYPASS

映像信号が以下のように出力されます。

### V1-2. DIGITAL BYPASS

映像信号が以下のように変換され、出力されます。

### V1-3. ZONE BYPASS

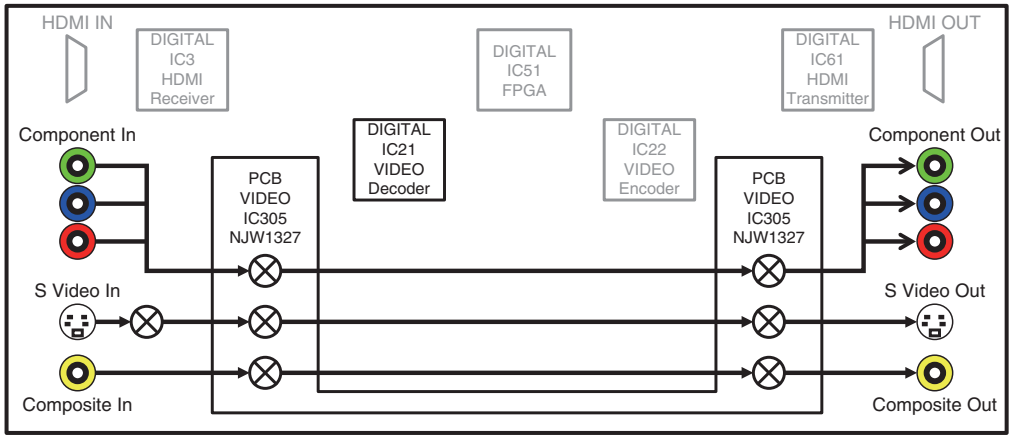
The video signal is converted and output as shown below.

### V1-3. ZONE BYPASS

映像信号が以下のように変換され、出力されます。




ZONE BYPASS




* MON/ZONE OUTPUT is selectable different from AV-OUT.

### V1-4. MUTE CHECK

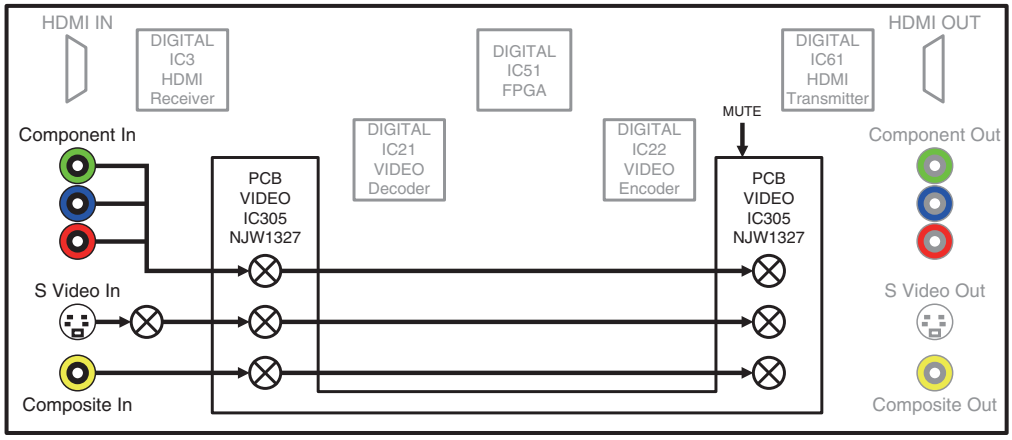
The video signal is muted.

### V1-4. MUTE CHECK

映像信号がミュートされます。




MUTE CHECK



### V1-5. TEST PATTERN

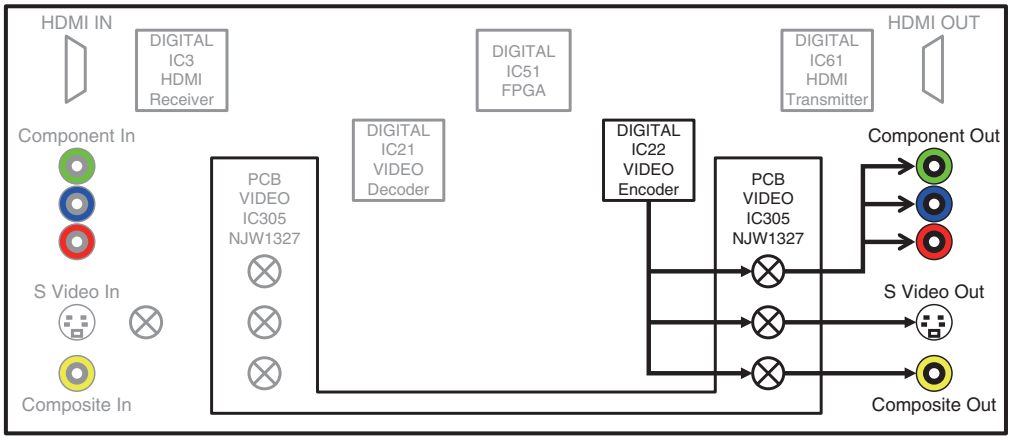
The test pattern is output from video encoder (IC22 on DIGITAL P.C.B.).

### V1-5. TEST PATTERN

ビデオエンコーダー（DIGITAL P.C.B. の IC22）からテストパターンが出力されます。




TEST PATTERN






### V1-6. VIDEO INFORMATION

The information of input analog video signals is displayed.

### V1-6. VIDEO INFORMATION

入力されているアナログ映像信号の情報が表示されます。



## V2. DIGITAL VIDEO CHECK

This menu is used to check the digital video signal route.

### V2-1. LOOPBACK TEST 1

Execute the test for all HDMI IN jacks by repeating the procedure below.

1. Select sub-menu other than V2-1.
2. Connect between any of the HDMI IN jacks and HDMI OUT jack with an HDMI cable.
3. Select V2-1. The test result is displayed in a few seconds.

## V2. DIGITAL VIDEO CHECK

デジタル映像信号経路をチェックします。

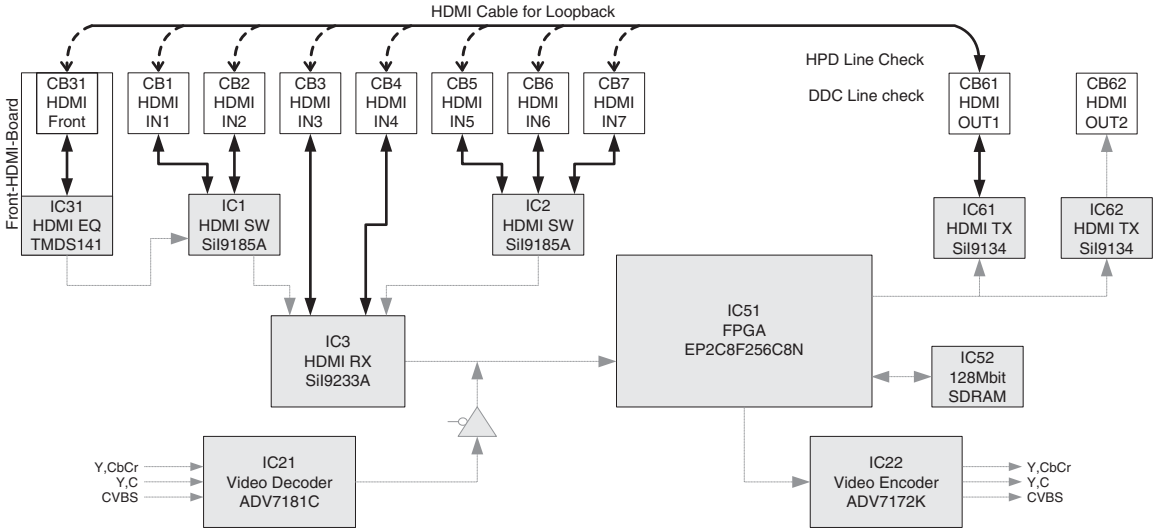
### V2-1. LOOPBACK TEST 1

下記の手順を繰り返して全 HDMI IN 端子のテストを行います。

1. V2-1 以外のサブメニューを選択します。
2. HDMI IN 端子の 1 つと HDMI OUT1 端子を HDMI ケーブルで接続します。
3. V2-1 を選択します。数秒後にテスト結果が表示されます。




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / 検出中



## V2-2. LOOPBACK TEST 2

Execute the test for all HDMI IN jacks by repeating the procedure below.

1. Select sub-menu other than V2-2.
2. Connect between any of the HDMI IN jacks and HDMI OUT jack with an HDMI cable.
3. Select the input source corresponding to the connected HDMI IN jack by using "INPUT" knob.
4. Select V2-2. The test result is displayed in a few seconds.

## V2-2. LOOPBACK TEST 2

下記の手順を繰り返して全 HDMI IN 端子のテストを行います。

1. V2-2 以外のサブメニューを選択します。
2. HDMI IN 端子の 1 つと HDMI OUT1 端子を HDMI ケーブルで接続します。
3. 接続した HDMI IN 端子に合わせて入力ソースを INPUT ツマミで選択します。
4. V2-2 を選択します。数秒後にテスト結果が表示されます。

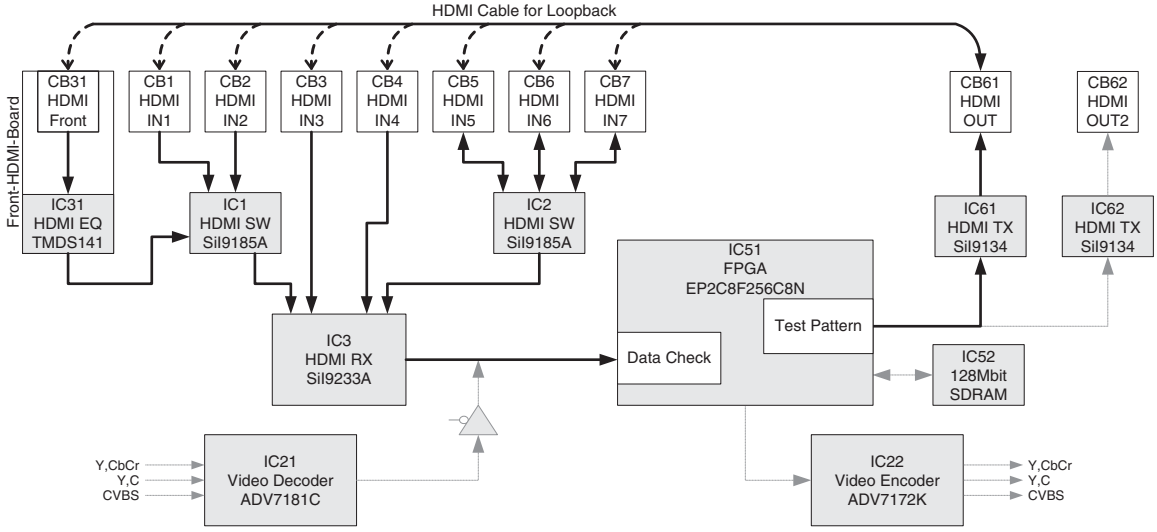
Select the input source




Result




OK: No error detected / 不良検出なし
NG: An error is detected / 不良検出あり
--: Checking / 検出中




## V2-3. INVALID ITEM

Not for service.

## V2-3. INVALID ITEM

サービスでは使用しません。



## V2-4. HDMI REPEAT

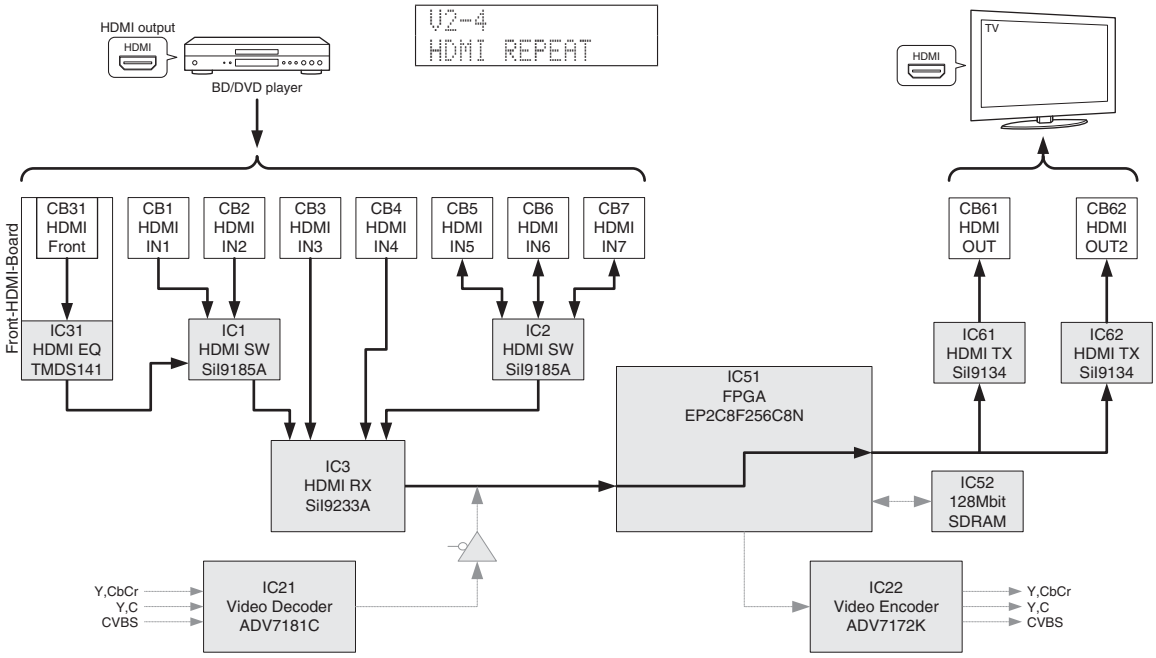
* Before check using sub-menu V2-4, disconnect the HDMI cable connected between HDMI OUT jack and HDMI IN jack of this unit in advance.

The video/audio signals input to HDMI IN jack are output to HDMI OUT jack.

## V2-4. HDMI REPEAT

※ サブメニュー V2-4 でのチェックの前に、あらかじめ HDMI OUT 端子と IN 端子間に接続されている HDMI ケーブルを外します。

HDMI IN 端子から入力された映像信号と音声信号が HDMI OUT 端子へ出力されます。

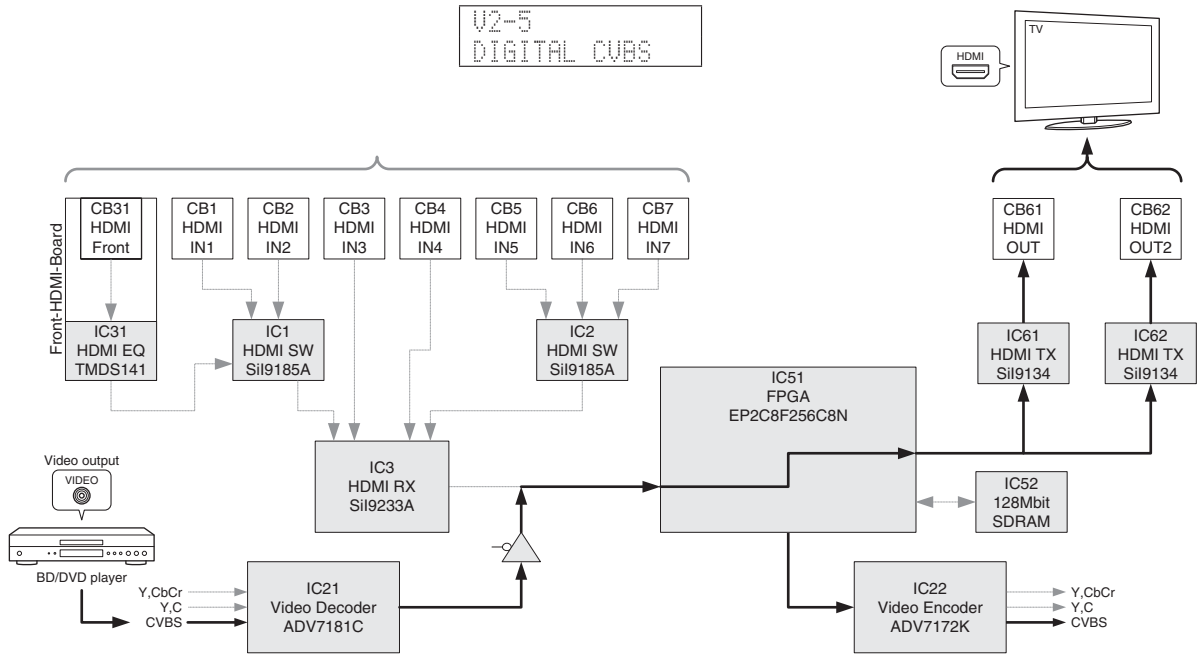



## V2-5. DIGITAL CVBS

The video (CVBS) signal is converted and output as shown below.

## V2-5. DIGITAL CVBS

映像信号が以下のように変換され、出力されます。

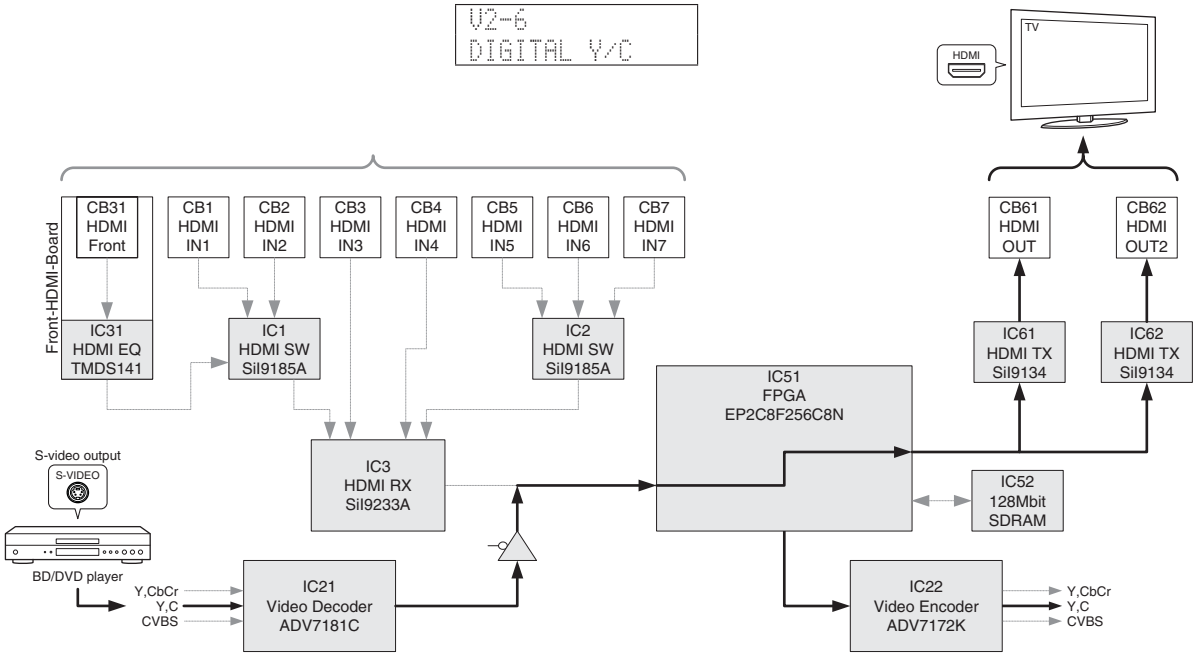


## V2-6. DIGITAL Y/C

The s-video (Y, C) signal is converted and output as shown below.

## V2-6. DIGITAL Y/C

映像信号が以下のように変換され、出力されます。

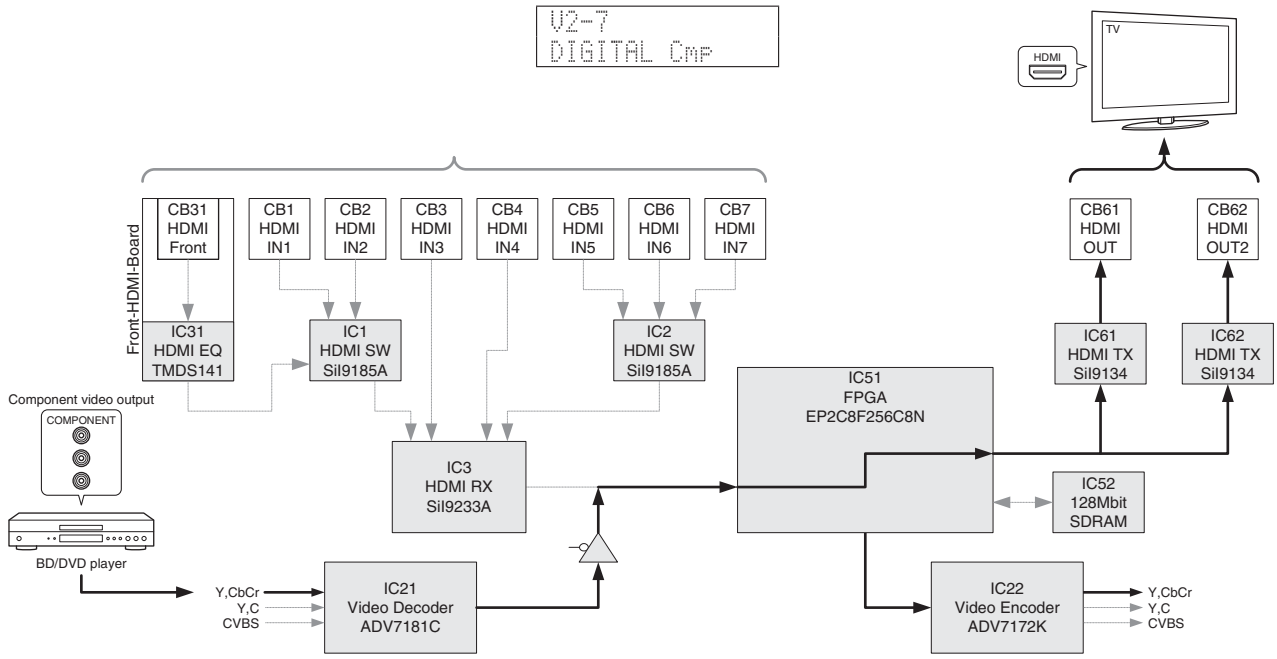



## V2-7. DIGITAL COMPONENT

The component video (Y, Cb, Cr) signal is converted and output as shown below.

## V2-7. DIGITAL COMPONENT

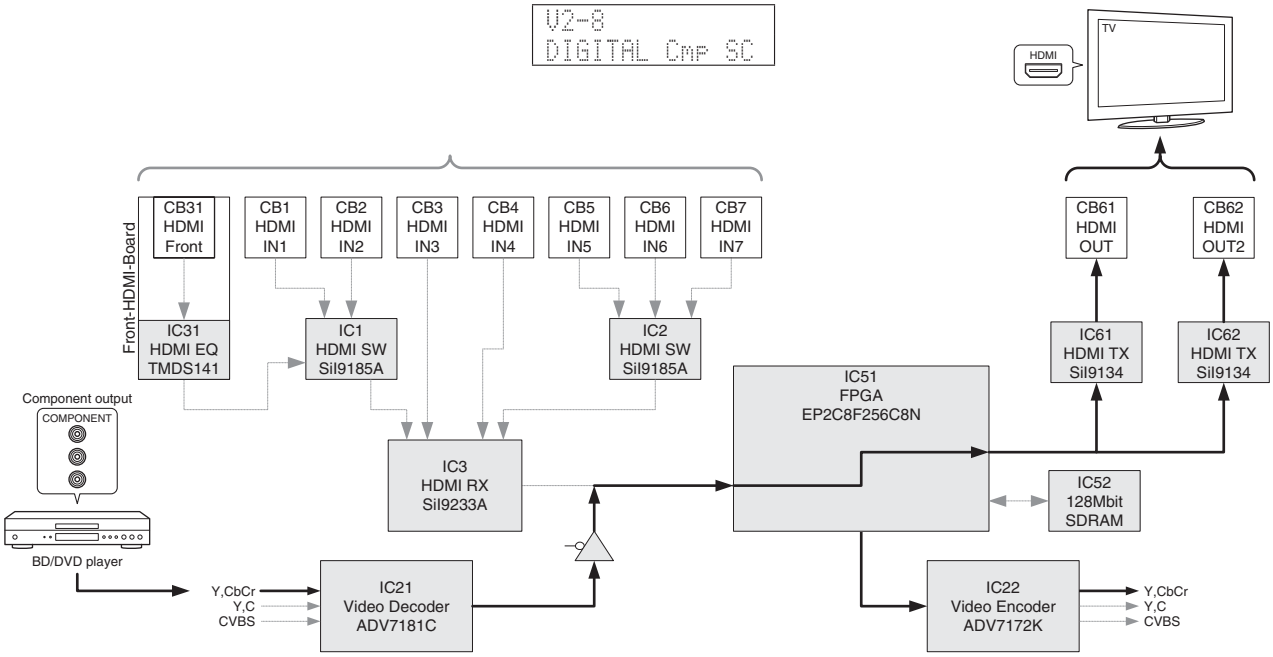
映像信号が以下のように変換され、出力されます。



### V2-8. DIGITAL COMPONENT SC

The component video (Y, Cb, Cr) signal is converted and output as shown below.

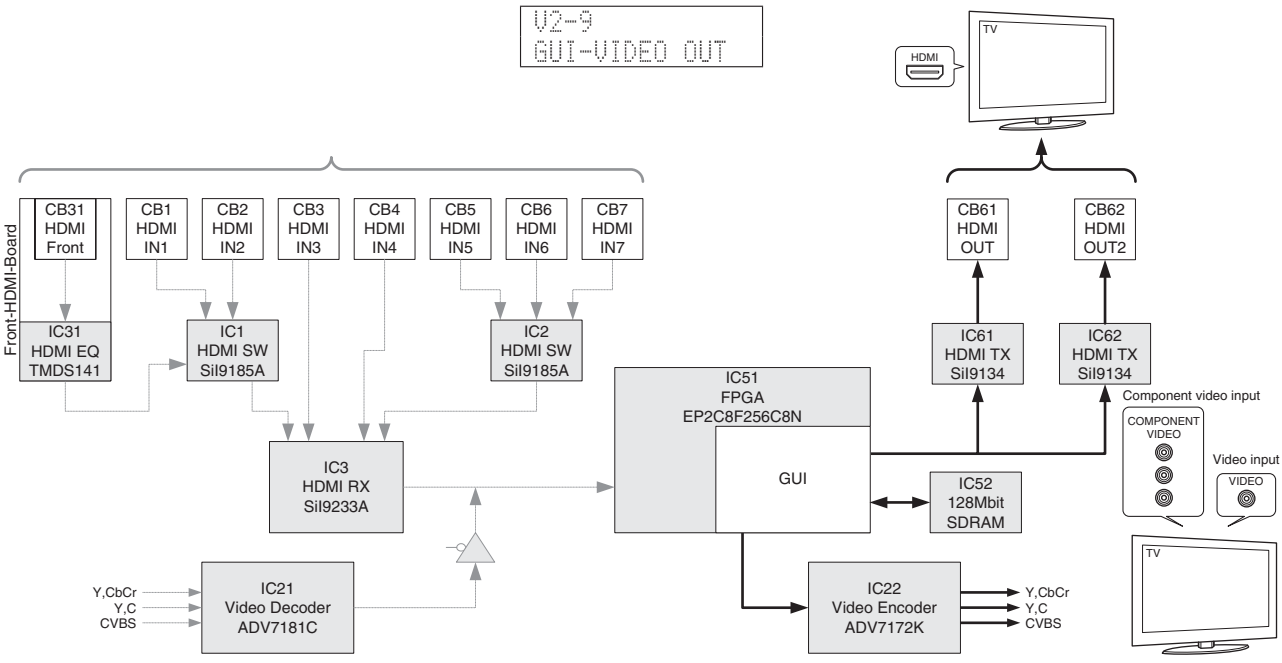
HDMI video output up-scaling:
480i/p, 576i/p only => 1080p




### V2-9. GUI-VIDEO OUT

The GUI is output from FPGA (IC51 on DIGITAL P.C.B.).

HDMI output: 1080p only

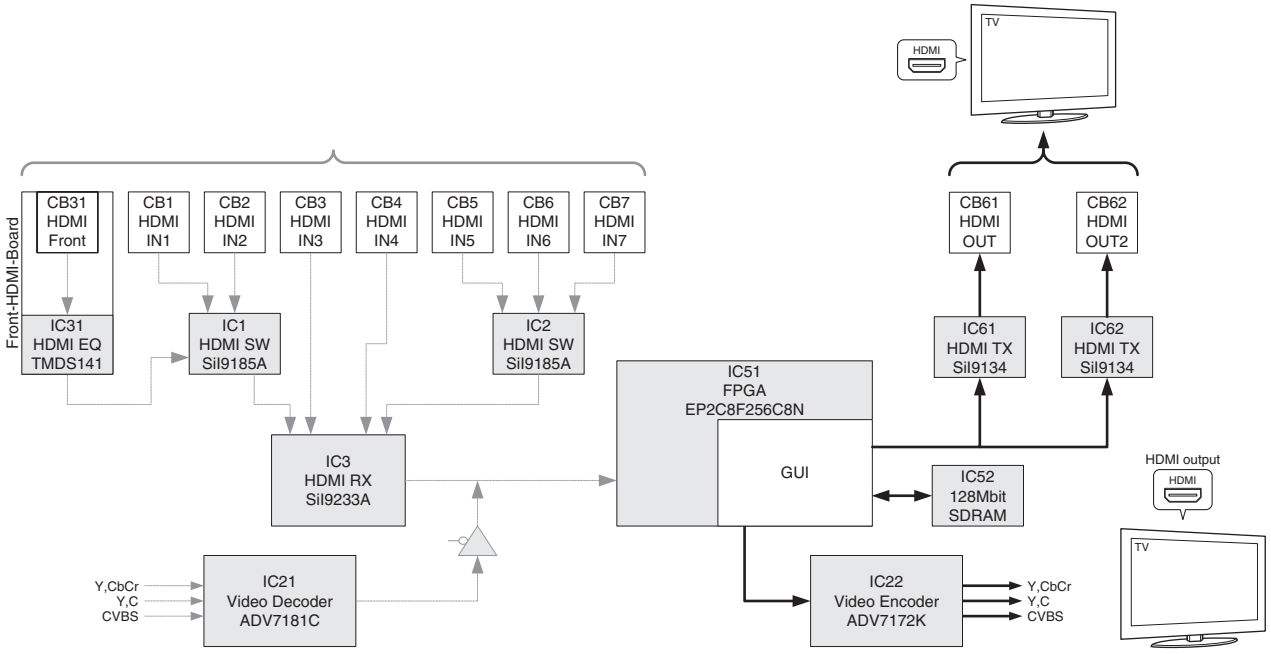


## V3. TEST PATTERN

The video signal is output to HDMI OUT jack with its resolution converted as shown below.

## V3. TEST PATTERN

映像信号が、以下のように解像度が変換されて、HDMI OUT 端子へ出力されます。



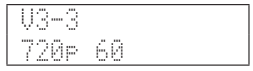

**V3-1. 480i**



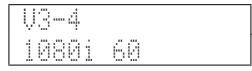

**V3-2. 480p**



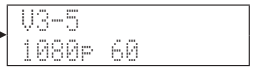

**V3-3. 720p 60Hz**




**V3-4. 1080i 60Hz**




**V3-5. 1080p 60Hz**



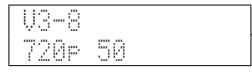

**V3-6. 576i**



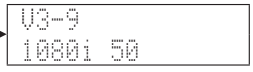

**V3-7. 576p**



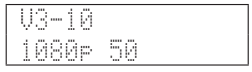

**V3-8. 720p 50Hz**



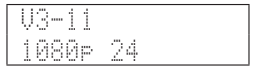

**V3-9. 1080i 50Hz**




**V3-10. 1080p 50Hz**




**V3-11. 1080p 24Hz**




**V3-12. 1080p 24Hz 3D/FP**




(FP: Frame Packing)

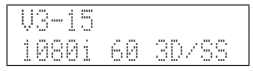
**V3-13. 720p 60Hz 3D/FP**




**V3-14. 720p 50Hz 3D/FP**




**V3-15. 1080i 60Hz 3D/SS**




**V3-16. 1080i 50Hz 3D/SS**

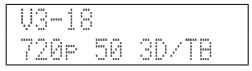



(SS: Side-by-Side)

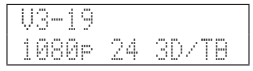
**V3-17. 720p 60Hz 3D/TB**




**V3-18. 720p 50Hz 3D/TB**




**V3-19. 1080p 24Hz 3D/TB**




(TB: Top-and-Bottom)

## P1. SYSTEM MONITOR

This menu is used to display the A/D conversion value of the microprocessor which detects panel keys and protection functions by using the sub-menu.

When "P1-8. KEY1/KEY2/KEY3" sub-menu is selected, keys become non-operable due to detection of the values of all keys. However, it is possible to advance to the next sub-menu by pressing the "SCENE 4" (forward) key or "SCENE 3" (reverse) key on the remote control.

* Numeric values in the figure are given as reference only.

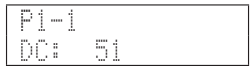
### P1-1. DC

Power amplifier DC (DC voltage) output is detected.

The voltage at 5 pin (DC_PRT) of IC89 is displayed.

Normal value: 32 to 74
(Reference voltage: 3.3 V=255)

* If DC becomes out of the normal value range, the protection function works to turn off the power.




### P1-2. PS1/PS2

Power supply voltage protection detection

The voltage at 2 pin (PS1_PRT)/1 pin (PS2_PRT) of IC89 are displayed.

Voltage detects

**PS1:** +3.3s, ACBL, ACM1, ACM2, +5, DCDC, -3.3V

**PS2:** ±12A, ±12RY, +5A, +44V, +5DK

Normal value

**PS1:** 57 to 119 (+5: On)
108 to 170 (+5: Off)

**PS2:** 43 to 148
(Reference voltage: 3.3 V=255)

* If PS1 or PS2 becomes out of the normal value range, the protection function works to turn off the power.




## P1. SYSTEM MONITOR

パネルキー、プロテクションなどを検出しているマイコンの A/D 変換値を、サブメニューで表示します。

サブメニュー"P1-8. KEY1/KEY2/KEY3"にすると、全キーの値を検出するためキー操作はできなくなりますが、リモコンの "SCENE 4"（順送り）キーまたは "SCENE 3"（逆送り）キーを押すことにより、次のサブメニューに進めることができます。

※ 図中の数値は参考例です。

### P1-1. DC

パワーアンプ DC（直流電圧）出力の検出

IC89 の 5 ピン（DC_PRT）の電圧が表示されます。

正常値： 32 ～ 74
（基準電圧：3.3 V=255）

※ DC が正常値を外れるとプロテクションが働き、電源が切れます。

### P1-2. PS1/PS2

電源電圧プロテクションの検出

IC89 の 2 ピン（PS1_PRT）／ 1 ピン（PS2_PRT）の電圧が表示されます。

検出電圧

**PS1：** +3.3s、ACBL、ACM1、ACM2、+5、DCDC、-3.3V

**PS2：** ± 12A、± 12RY、+5A、+44V、+5DK

正常値

**PS1：** 57 ～ 119（+5：オン）
108 ～ 170（+5：オフ）

**PS2：** 43 ～ 148
（基準電圧：3.3 V=255）

※ PS1 または PS2 が正常値を外れるとプロテクションが働き、電源が切れます。

**P1-3. TMA1/TMA2**

Temperature of the heatsink is detected.

The voltage at 12 pin (THM1) of IC89 and 1 pin (THM2) of IC90 are displayed.

Normal value

**TMA1:** 81 to 255
**TMA2:** 81 to 255
(Reference voltage: 3.3 V=255)

* If TMA1/TMA2 becomes out of the normal value range, the protection function works to turn off the power.

**P1-3. TMA1/TMA2**

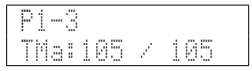
ヒートシンク温度の検出

IC89 の 12 ピン（THM1）、IC90 の 1 ピン（THM2）の電圧が表示されます。

正常値

**TMA1：** 81 ～ 255
**TMA2：** 81 ～ 255
（基準電圧：3.3 V=255）

※ TMA1/TMA2 が正常値を外れるとプロテクションが働き、電源が切れます。




**P1-4. TMB3/TMB4**

Not for service.

**P1-4. TMB3/TMB4**

サービスでは使用しません。




**P1-5. OUTPUT LEVEL**

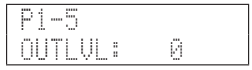
Output level of speaker output is detected.

The voltage at 165 pin (AMP_OLV) of IC89 is displayed.
(Reference voltage: 3.3 V=255)

**P1-5. OUTPUT LEVEL**

スピーカー出力の出力レベルの検出

IC89 の 165 ピン（AMP_OLV）の電圧が表示されます。
（基準電圧：3.3 V=255）




**P1-6. LIMITER CONTROL**

Power limiter control is detected.

The voltage at 4 pin (AMP_LMT) of IC81 is displayed.
(Reference voltage: 3.3 V=255)

**P1-6. LIMITER CONTROL**

電源リミッター制御の検出

IC81 の 4 ピン（AMP_LMT）の電圧が表示されます。
（基準電圧：3.3 V=255）



### P1-7. L3 (J model)

Not for service.

### P1-7. L3（J model）

D 端子の L3（VIDEO P.C.B. CB461 ～ 463 の 11 ピン）レベルの検出

IC81 の 167 ピン（L3_DET）の電圧が表示されます。
（基準電圧：5 V=255）




### P1-8. KEY1/KEY2/KEY3

Panel key is detected.

When the A/D conversion value of the panel key becomes out of the specified range, normal operation will not be available.

In that case, check the constant of voltage dividing resistor, solder condition, etc. Refer to table.

* When "P1-8. KEY1/KEY2/KEY3" menu is selected, keys become non-operable due to detection of the values of all keys. However, it is possible to advance to the next sub-menu by pressing the "SCENE 4" (forward) key or "SCENE 3" (reverse) key on the remote control.

(Reference voltage: 3.3 V=255)

### P1-8. KEY1/KEY2/KEY3

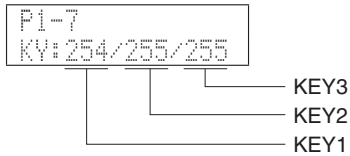
パネルキーの検出

パネルキーの A/D 値が規定範囲から外れると、正常な動きをしません。

下表をご覧になり、各キーの分圧抵抗の定数、ハンダ不良等の確認をしてください。

※ "P1-8. KEY1/KEY2/KEY3" メニューにすると、全キーの値を検出するためキー操作はできなくなりますが、リモコンの "SCENE 4"（順送り）キーまたは "SCENE 3"（逆送り）キーを押すことにより、次のサブメニューに進めることができます。

（基準電圧：3.3 V=255）




| Display / 表示 | KEY1 |
|---|---|
| 0 – 9 | SCENE 4 |
| 10 – 27 | SCENE 3 |
| 28 – 44 | SCENE 2 |
| 45 – 63 | SCENE 1 |
| 64 – 83 | ZONE2 CONTROL |
| 119 – 137 | MAIN ZONE ⏻ |
| 255 | Key off |

| Display / 表示 | KEY2 |
|---|---|
| 0 – 9 | STRAIGHT |
| 10 – 27 | TONE BALANCE |
| 28 – 44 | OPTION |
| 45 – 63 | △ |
| 64 – 83 | ON SCREEN |
| 84 – 100 | ＜ |
| 101 – 118 | ENTER |
| 119 – 137 | ＞ |
| 138 – 155 | PROGRAM < |
| 156 – 173 | PROGRAM > |
| 174 – 191 | DISPLAY |
| 192 – 209 | ▽ |
| 210 – 227 | RETURN |
| 255 | Key off |

| Display / 表示 | KEY3 |
|---|---|
| 0 – 9 | PRESET > |
| 10 – 27 | PRESET < |
| 28 – 44 | MEMORY |
| 45 – 63 | INFO |
| 64 – 83 | ZONE CONTROL |
| 84 – 100 | FM |
| 101 – 118 | AM |
| 119 – 137 | TUNING/CH << |
| 138 – 155 | TUNING/CH >> |
| 156 – 173 | PURE DIRECT |
| 255 | Key off |

## P2. PROTECTION HISTORY

This menu is used to display the history of protection function.

All history of protection function will be erased by pressing the “STRAIGHT” key.

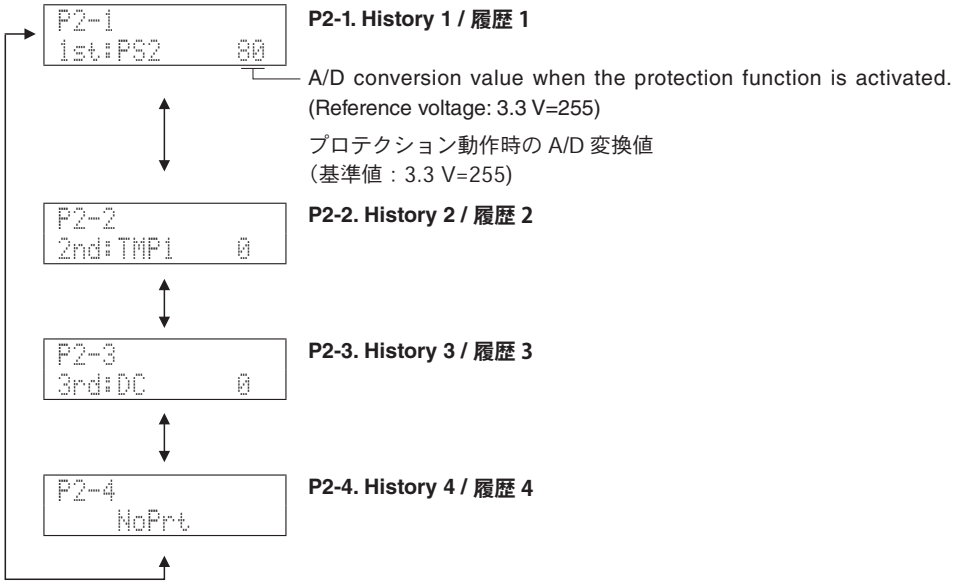
* Numeric values in the figure are given as reference only.

## P2. PROTECTION HISTORY

プロテクション履歴が表示されます。

“STRAIGHT” キーを押すとプロテクション履歴はすべて消去されます。

※ 図中の数値は参考例です。




**P2-1. History 1 / 履歴 1**

A/D conversion value when the protection function is activated. (Reference voltage: 3.3 V=255)

プロテクション動作時の A/D 変換値
（基準値：3.3 V=255)

**P2-2. History 2 / 履歴 2**

**P2-3. History 3 / 履歴 3**

**P2-4. History 4 / 履歴 4**

## S1. F/W UPDATE

Not for service.

## S1. F/W UPDATE

サービスでは使用しません。




## S2. SET INFORMATION

The model name and destination of this unit are displayed.

### S2-1. MODEL

The model name of this unit is displayed.

## S2. SET INFORMATION

本機のモデル名、仕向け先が表示されます。

### S2-1. MODEL

本機のモデル名が表示されます。




Not for service / サービスでは使用しません

Model name / モデル名
A1010 : RX-A1010
V1071 : RX-V1071



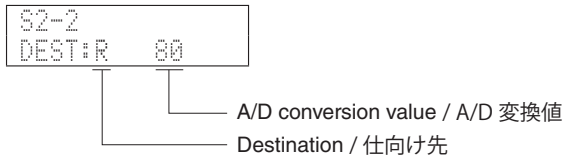
RX-A1010/RX-V1071

### S2-2. DESTINATION

The destination of this unit is displayed.

### S2-2. DESTINATION

本機の仕向け先が表示されます。



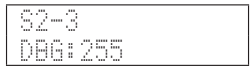

| Destination | J | U | C | R | T | K | A | B, G, F | L |
|---|---|---|---|---|---|---|---|---|---|
| A/D conversion value (3.3 V=255) | 0 – 12 | 13 – 39 | 40 – 67 | 68 – 92 | 93 – 115 | 116 – 140 | 141 – 169 | 199 – 221 | 222 – 244 |

### S2-3. DEBUG

Not for service.

### S2-3. DEBUG

サービスでは使用しません。

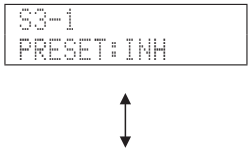



## S3. FACTORY PRESET

This menu is used to reserve/inhibit initialization of the back-up IC (EEPROM: IC83 on DIGITAL P.C.B.).

## S3. FACTORY PRESET

バックアップ IC（EEPROM：DIGITAL P.C.B. の IC83）の初期化を予約／禁止します。




**S3-1. PRESET INHIBIT** (Initialization inhibited) / **PRESET INHIBIT**（初期化禁止）

Initialization of the back-up IC is not executed. Select this sub-menu to protect the values set by the user.
バックアップ用 IC の初期化は行われません。ユーザーの設定値を保護するときは、こちらを選択してください。




**S3-1. PRESET RESERVED** (Initialization reserved) / **PRESET RESERVED**（初期化予約）

Initialization of the back-up IC is reserved. (Actual initialization is executed the next time the power is turned on.) To reset to the original factory settings or to reset the backup IC, select this sub-menu and press the "MAIN ZONE ⏻" key to turn off the power.
ユーザーメモリーの初期化が予約されます。（実際に初期化されるのは、次回の電源投入時です。）工場出荷時やユーザーメモリーをリセットしたいときは、こちらを選択してから"MAIN ZONE ⏻"キーを押して電源を切ってください。

**CAUTION:** Before setting to the PRESET RESERVED, write down the existing preset memory content of the tuner. (This is because setting to the PRESET RESERVED will cause the user memory content to be erased.)

**注意：** PRESET RESERVED を選んで初期化をする前に、チューナーのユーザーメモリーの内容を書き写してください。（初期化をすると、チューナーのユーザーメモリーの内容は消えてしまいます。）

## S4. ROM VERSION/CHECKSUM

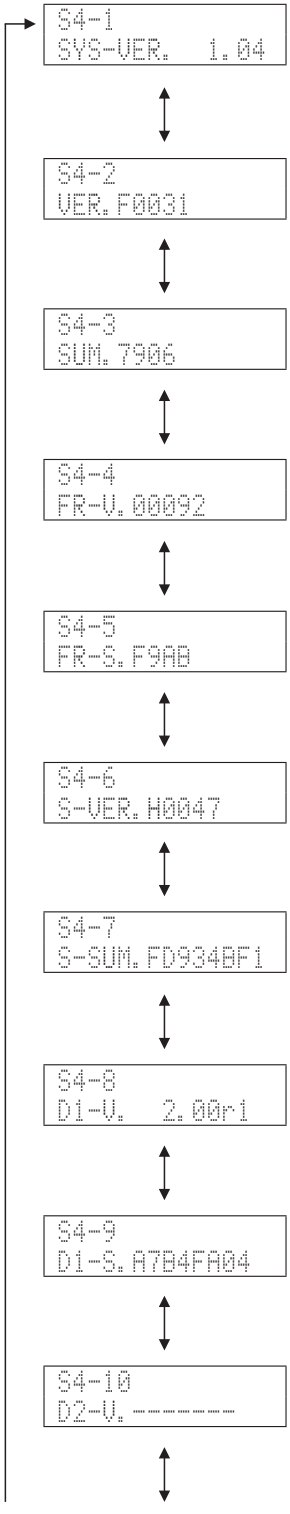
The firmware version and checksum values are displayed.

* Numeric values in the figure are given as reference only.

## S4. ROM VERSION/CHECKSUM

ファームウェアのバージョン、チェックサムが表示されます。

※ 図中の数値は参考例です。




**S4-1. SYSTEM VERSION**

The firmware version is displayed.

ファームウェアのバージョンが表示されます。

**S4-2. MICROPROCESSOR VERSION**

The firmware version of MICROPROCESSOR (IC81 on DIGITAL P.C.B.) is displayed.

マイコン（DIGITAL P.C.B. の IC81）のファームウェアのバージョンが表示されます。

**S4-3. MICROPROCESSOR CHECKSUM**

The checksum value of MICROPROCESSOR (IC81 on DIGITAL P.C.B.) is displayed.

マイコン（DIGITAL P.C.B. の IC81）のチェックサムが表示されます。

**S4-4. FLASH ROM VERSION**

The firmware version of FLASH ROM (IC82 on DIGITAL P.C.B.) is displayed.

FLASH ROM（DIGITAL P.C.B. の IC82）のファームウェアのバージョンが表示されます。

**S4-5. FLASH ROM CHECKSUM**

The checksum value of FLASH ROM (IC82 on DIGITAL P.C.B.) is displayed.

FLASH ROM（DIGITAL P.C.B. の IC82）のチェックサムが表示されます。

**S4-6. BF (NETWORK microprocessor) VERSION**

The firmware version of BF (NETWORK microprocessor, IC901 on DIGITAL P.C.B.) is displayed.

BF（NETWORK マイコン、DIGITAL P.C.B. の IC901）のファームウェアのバージョンが表示されます。

**S4-7. BF (NETWORK microprocessor) CHECKSUM**

The checksum value of BF (NETWORK microprocessor, IC901 on DIGITAL P.C.B.) is displayed.

BF（NETWORK マイコン、DIGITAL P.C.B. の IC901）のチェックサムが表示されます。

**S4-8. DSP1 VERSION**

The firmware version of DSP1 (IC921 on DIGITAL P.C.B.) is displayed.

DSP1（DIGITAL P.C.B. の IC921）のファームウェアのバージョンが表示されます。

**S4-9. DSP1 CHECKSUM**

The checksum value of DSP1 (IC921 on DIGITAL P.C.B.) is displayed.

DSP1（IC921 DIGITAL P.C.B.）のチェックサムが表示されます。

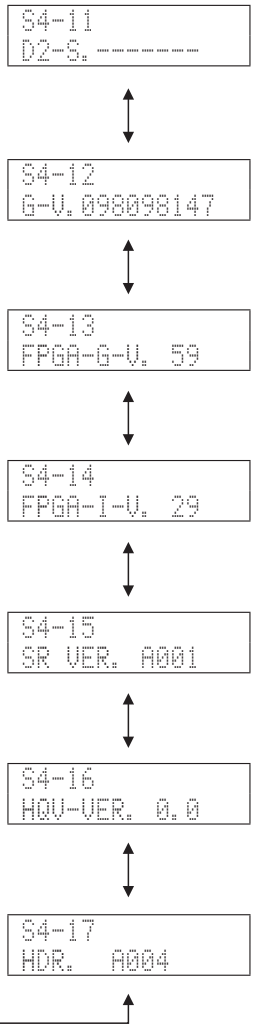
**S4-10. DSP2 VERSION**

Not for service.

サービスでは使用しません。



RX-A1010/RX-V1071




**S4-11. DSP2 CHECKSUM**

Not for service.

サービスでは使用しません。

**S4-12. GUI VERSION**

The firmware version of GUI data is displayed.

GUI データのファームウェアのバージョンが表示されます。

**S4-13. FPGA GUI VERSION**

The firmware version of GUI section in FPGA (IC51 on DIGITAL P.C.B.) is displayed.

FPGA（DIGITAL P.C.B. の IC51）の GUI 部のファームウェアのバージョンが表示されます。

**S4-14. FPGA IP VERSION**

The firmware version of video processor section in FPGA (IC51 on DIGITAL P.C.B.) is displayed.

FPGA（DIGITAL P.C.B. の IC51）の VIDEO プロセッサー部のファームウェアのバージョンが表示されます。

**S4-15. SIRIUS VERSION (U model)**

The firmware version of SIRIUS is displayed.

**S4-16. HQV VERSION**

The firmware version of HQV (IC64 DIGITAL P.C.B.) is displayed.

HQV（IC64 DIGITAL P.C.B.）のファームウェアのバージョンが表示されます。

**S4-17. HD RADIO VERSION (U model)**

The firmware version of HD radio is displayed.

# ■ POWER AMPLIFIER ADJUSTMENT / パワーアンプ調整

Perform all adjustments with no signal applied.
Warming up before adjustment is not required.

無信号状態ですべての調整を行います。
調整前のウォーミングアップは必要ありません。

## ● Idling Current Adjustment

1. Turn all the semi-fixed variable resisters for idling current adjustment counterclockwise fully.
2. Turn on the power to this unit.
3. Adjust all channels so that the voltage value at test point is the same as center value of the specified range.

## ● アイドリング電流調整

1. すべてのチャンネルのアイドリング調整用半固定ボリュームを左いっぱいに回します。
2. 本機に電源を投入します。
3. テストポイント電圧が表の規格の中心値になるようにすべてのチャンネルを再調整します。

## ● DC Offset Confirmation

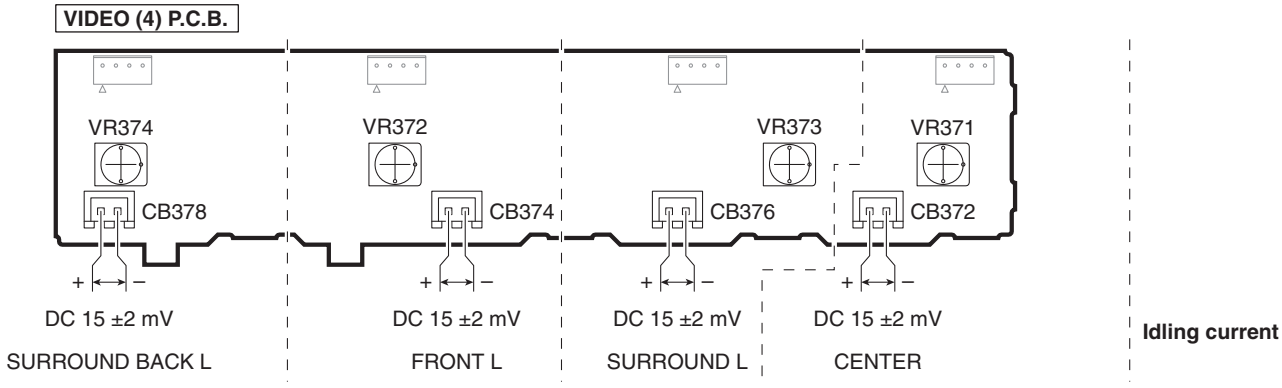
After idling current adjustment, confirm that DC offset of all channels are within the specified range.

## ● DC オフセット確認

アイドリング調整後、すべてのチャンネルの DC オフセットが規格以内であることを確認します。

**VIDEO (4) P.C.B.**

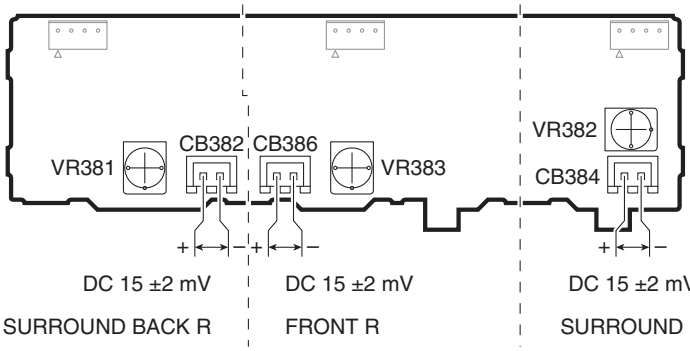
| Item<br>チャンネル | Idling current adjustments<br>アイドリング電流調節 | | | DC offset confirmations<br>DC オフセット確認 | |
|---|---|---|---|---|---|
| | Test Point<br>テストポイント | Adjustment Point<br>調整箇所 | Rating<br>規格 | Test Point<br>テストポイント | Rating<br>規格 |
| Center | CB372 pin1, pin2 | VR371 | DC 15 ±2 mV | Speaker Terminal (TE101) | DC -100 mV to +100 mV |
| Surround L | CB376 pin1, pin2 | VR373 | | Speaker Terminal (TE104) | |
| Front L | CB374 pin1, pin2 | VR372 | | Speaker Terminal (TE101) | |
| Surround Back L | CB378 pin1, pin2 | VR374 | | Speaker Terminal (TE103) | |



**VIDEO (5) P.C.B.**

| Item<br>チャンネル | Idling current adjustments<br>アイドリング電流調節 | | | DC offset confirmations<br>DC オフセット確認 | |
|---|---|---|---|---|---|
| | Test Point<br>テストポイント | Adjustment Point<br>調整箇所 | Rating<br>規格 | Test Point<br>テストポイント | Rating<br>規格 |
| Surround Back R | CB382 pin1, pin2 | VR381 | DC 15 ±2 mV | Speaker Terminal (TE103) | DC -100 mV to +100 mV |
| Front R | CB386 pin1, pin2 | VR383 | | Speaker Terminal (TE101) | |
| Surround R | CB384 pin1, pin2 | VR382 | | Speaker Terminal (TE104) | |

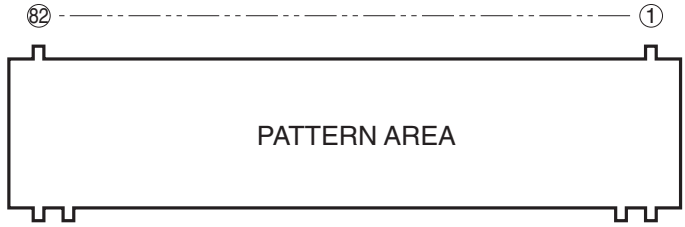
**VIDEO (5) P.C.B.**




**Idling current**

# ■ DISPLAY DATA

## ● V4001 : 23-MT-04GINK (OPERATION P.C.B.)




## ● PIN CONNECTION

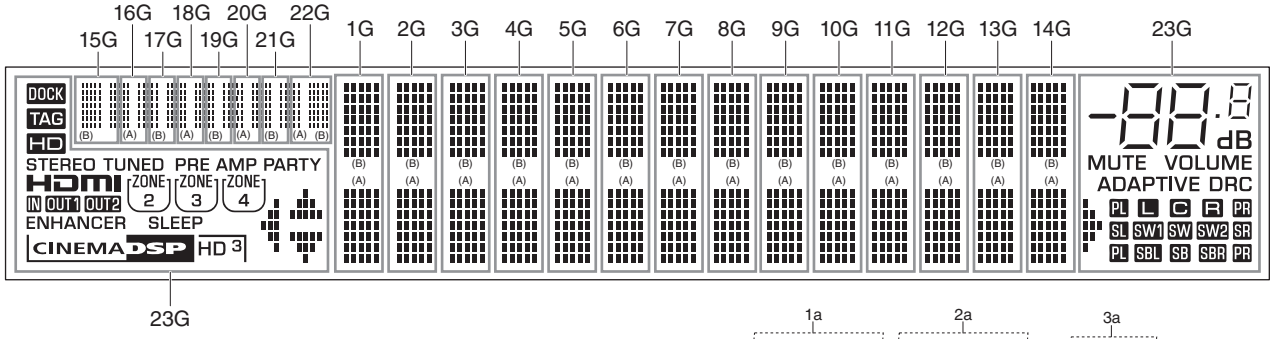
| Pin No. | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Connection | F2 | F2 | NP | NP | NP | NP | LGND | PGND | VH | VDD | OSC | $\overline{RESET}$ | $\overline{CS}$ | CP | DA | TSA | TSB | NP | NP | NP | NP | NP |

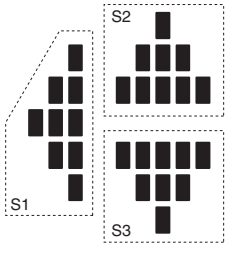
| Pin No. | 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Connection | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP |

| Pin No. | 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 | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NC | NC | NC | NC | NC | NC | NC | NC | NC | Q23G | 23G | NP | NP | NP | NP | F1 | F1 |

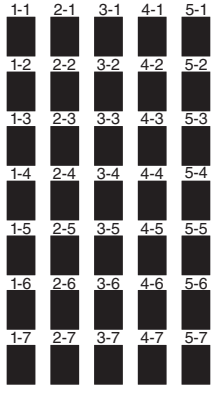
**Note** : 1) F1, F2 ..... Filament pin 2) NP ..... No pin 3) DL ..... Datum line pin 4) LGND ..... Logic GND pin 5) PGND ..... Power GND pin
6) HV ..... High voltage supply pin 7) VDD ..... Logic voltage supply pin 8) OSC ..... Pin for self-oscillation 9) $\overline{RESET}$ ..... Reset input
10) $\overline{CS}$ ..... Chip select input pin 11) CP ..... Shift resister clock 12) DA ..... Serial data input 13) TSA,B ..... Test pin
14) Solder composition is Sn-3Ag-0.5Cu. 15) Field of vision is a minimum of 25.0° from the upper side. 22.8° from the lower side.
16) 23G ..... Grid 17) Q23G ..... Driver output port 18) NC ..... No connection

## ● GRID ASSIGNMENT

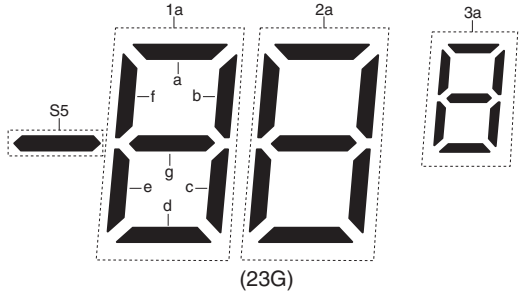



(23G)




(1G-22G)




(23G)




(23G)

## • Anode connection

| | 1G-14G | 15G | 16G, 17G | 18, 19G | 20G, 21G | 22G | 23G |
|---|---|---|---|---|---|---|---|
| D0B | 1-1B | 1-1B | 1-1B | 1-1B | 1-1B | 1-1B | 1a |
| D1B | 2-1B | 2-1B | 2-1B | 2-1B | 2-1B | 2-1B | 2a |
| D2B | 3-1B | 3-1B | 3-1B | 3-1B | 3-1B | 3-1B | 3a,3f,3c,3d |
| D3B | 4-1B | 4-1B | 4-1B | 4-1B | 4-1B | 4-1B | 1b |
| D4B | 5-1B | 5-1B | 5-1B | 5-1B | 5-1B | 5-1B | 2b |
| D5B | 1-2B | 1-2B | 1-2B | 1-2B | 1-2B | 1-2B | 3g |
| D6B | 2-2B | 2-2B | 2-2B | 2-2B | 2-2B | 2-2B | 1f |
| D7B | 3-2B | 3-2B | 3-2B | 3-2B | 3-2B | 3-2B | 2f |
| D8B | 4-2B | 4-2B | 4-2B | 4-2B | 4-2B | 4-2B | 3b,3e |
| D9B | 5-2B | 5-2B | 5-2B | 5-2B | 5-2B | 5-2B | 1g |
| D10B | 1-3B | 1-3B | 1-3B | 1-3B | 1-3B | 1-3B | 2g |
| D11B | 2-3B | 2-3B | 2-3B | 2-3B | 2-3B | 2-3B | S5 |
| D12B | 3-3B | 3-3B | 3-3B | 3-3B | 3-3B | 3-3B | 1c |
| D13B | 4-3B | 4-3B | 4-3B | 4-3B | 4-3B | 4-3B | 2c |
| D14B | 5-3B | 5-3B | 5-3B | 5-3B | 5-3B | 5-3B | 1e |
| D15B | 1-4B | 1-4B | 1-4B | 1-4B | 1-4B | 1-4B | 2e |
| D16B | 2-4B | 2-4B | 2-4B | 2-4B | 2-4B | 2-4B | 1d |
| D17B | 3-4B | 3-4B | 3-4B | 3-4B | 3-4B | 3-4B | 2d |
| D18B | 4-4B | 4-4B | 4-4B | 4-4B | 4-4B | 4-4B | S6 |
| D19B | 5-4B | 5-4B | 5-4B | 5-4B | 5-4B | 5-4B | MUTE |
| D20B | 1-5B | 1-5B | 1-5B | 1-5B | 1-5B | 1-5B | ADAPTIVE DRC |
| D21B | 2-5B | 2-5B | 2-5B | 2-5B | 2-5B | 2-5B | PL (UP) |
| D22B | 3-5B | 3-5B | 3-5B | 3-5B | 3-5B | 3-5B | L |
| D23B | 4-5B | 4-5B | 4-5B | 4-5B | 4-5B | 4-5B | C |
| D24B | 5-5B | 5-5B | 5-5B | 5-5B | 5-5B | 5-5B | R |
| D25B | 1-6B | 1-6B | 1-6B | 1-6B | 1-6B | 1-6B | PR (UP) |
| D26B | 2-6B | 2-6B | 2-6B | 2-6B | 2-6B | 2-6B | SL |
| D27B | 3-6B | 3-6B | 3-6B | 3-6B | 3-6B | 3-6B | SW1 |
| D28B | 4-6B | 4-6B | 4-6B | 4-6B | 4-6B | 4-6B | SW2 |
| D29B | 5-6B | 5-6B | 5-6B | 5-6B | 5-6B | 5-6B | SR |
| D30B | 1-7B | 1-7B | 1-7B | 1-7B | 1-7B | 1-7B | PL (DOWN) |
| D31B | 2-7B | 2-7B | 2-7B | 2-7B | 2-7B | 2-7B | SBL |
| D32B | 3-7B | 3-7B | 3-7B | 3-7B | 3-7B | 3-7B | SB |
| D33B | 4-7B | 4-7B | 4-7B | 4-7B | 4-7B | 4-7B | SBR |
| D34B | 5-7B | 5-7B | 5-7B | 5-7B | 5-7B | 5-7B | PR (DOWN) |

| | 1G-14G | 15G, 16G | 17G, 18G | 19, 20G | 21G, 21G | 23G |
|---|---|---|---|---|---|---|
| D0A | 1-1A | 1-1A | 1-1A | 1-1A | 1-1A | DOCK |
| D1A | 2-1A | 2-1A | 2-1A | 2-1A | 2-1A | TAG |
| D2A | 3-1A | 3-1A | 3-1A | 3-1A | 3-1A | HD |
| D3A | 4-1A | 4-1A | 4-1A | 4-1A | 4-1A | STEREO |
| D4A | 5-1A | 5-1A | 5-1A | 5-1A | 5-1A | HDMI |
| D5A | 1-2A | 1-2A | 1-2A | 1-2A | 1-2A | IN |
| D6A | 2-2A | 2-2A | 2-2A | 2-2A | 2-2A | OUT1 |
| D7A | 3-2A | 3-2A | 3-2A | 3-2A | 3-2A | OUT2 |
| D8A | 4-2A | 4-2A | 4-2A | 4-2A | 4-2A | ENHANCER |
| D9A | 5-2A | 5-2A | 5-2A | 5-2A | 5-2A | ZONE 2 |
| D10A | 1-3A | 1-3A | 1-3A | 1-3A | 1-3A | ZONE 3 |
| D11A | 2-3A | 2-3A | 2-3A | 2-3A | 2-3A | ZONE 4 |
| D12A | 3-3A | 3-3A | 3-3A | 3-3A | 3-3A | SLEEP |
| D13A | 4-3A | 4-3A | 4-3A | 4-3A | 4-3A | CINEMA DSP |
| D14A | 5-3A | 5-3A | 5-3A | 5-3A | 5-3A | HD 3 |
| D15A | 1-4A | 1-4A | 1-4A | 1-4A | 1-4A | S1 |
| D16A | 2-4A | 2-4A | 2-4A | 2-4A | 2-4A | S1 |
| D17A | 3-4A | 3-4A | 3-4A | 3-4A | 3-4A | S3 |
| D18A | 4-4A | 4-4A | 4-4A | 4-4A | 4-4A | TUNED |
| D19A | 5-4A | 5-4A | 5-4A | 5-4A | 5-4A | PRE AMP |
| D20A | 1-5A | 1-5A | 1-5A | 1-5A | 1-5A | PARTY |
| D21A | 2-5A | 2-5A | 2-5A | 2-5A | 2-5A | S4 |
| D22A | 3-5A | 3-5A | 3-5A | 3-5A | 3-5A | – |
| D23A | 4-5A | 4-5A | 4-5A | 4-5A | 4-5A | – |
| D24A | 5-5A | 5-5A | 5-5A | 5-5A | 5-5A | – |
| D25A | 1-6A | 1-6A | 1-6A | 1-6A | 1-6A | – |
| D26A | 2-6A | 2-6A | 2-6A | 2-6A | 2-6A | – |
| D27A | 3-6A | 3-6A | 3-6A | 3-6A | 3-6A | – |
| D28A | 4-6A | 4-6A | 4-6A | 4-6A | 4-6A | – |
| D29A | 5-6A | 5-6A | 5-6A | 5-6A | 5-6A | – |
| D30A | 1-7A | 1-7A | 1-7A | 1-7A | 1-7A | – |
| D31A | 2-7A | 2-7A | 2-7A | 2-7A | 2-7A | – |
| D32A | 3-7A | 3-7A | 3-7A | 3-7A | 3-7A | – |
| D33A | 4-7A | 4-7A | 4-7A | 4-7A | 4-7A | – |
| D34A | 5-7A | 5-7A | 5-7A | 5-7A | 5-7A | – |

## • Timing chart

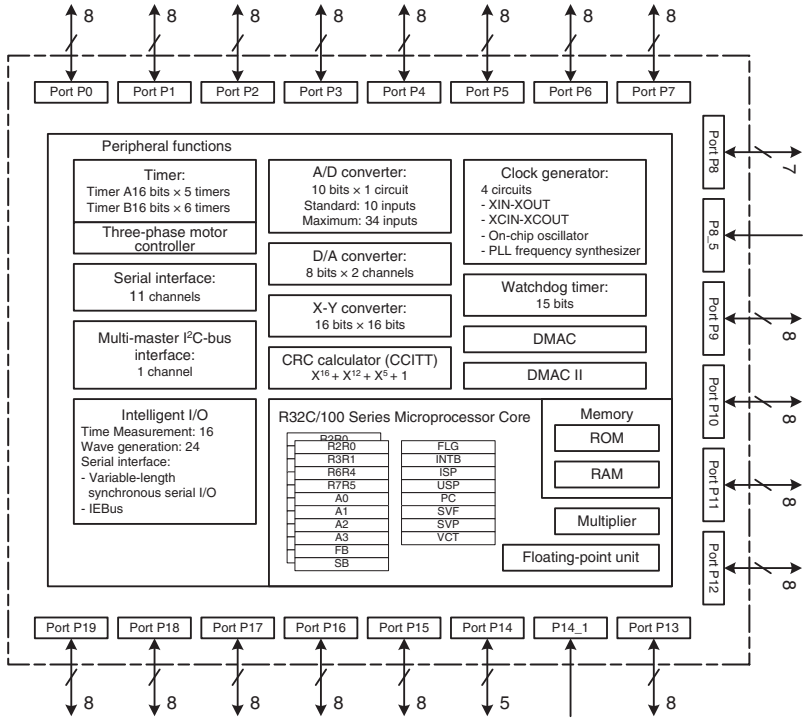
| | 1G-14G | 15G | 16G, 17G | 18, 19G | 20G, 21G | 22G | 23G |
|---|---|---|---|---|---|---|---|
| D0B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D1B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D2B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D3B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D4B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D5B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D6B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D7B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D8B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D9B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D10B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D11B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D12B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D13B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D14B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D15B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D16B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D17B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D18B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D19B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D20B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D21B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D22B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D23B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D24B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D25B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D26B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D27B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D28B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D29B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D30B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D31B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D32B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D33B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |
| D34B | T1-T14 | T15 | T17 | T19 | T21 | T23 | T24 |

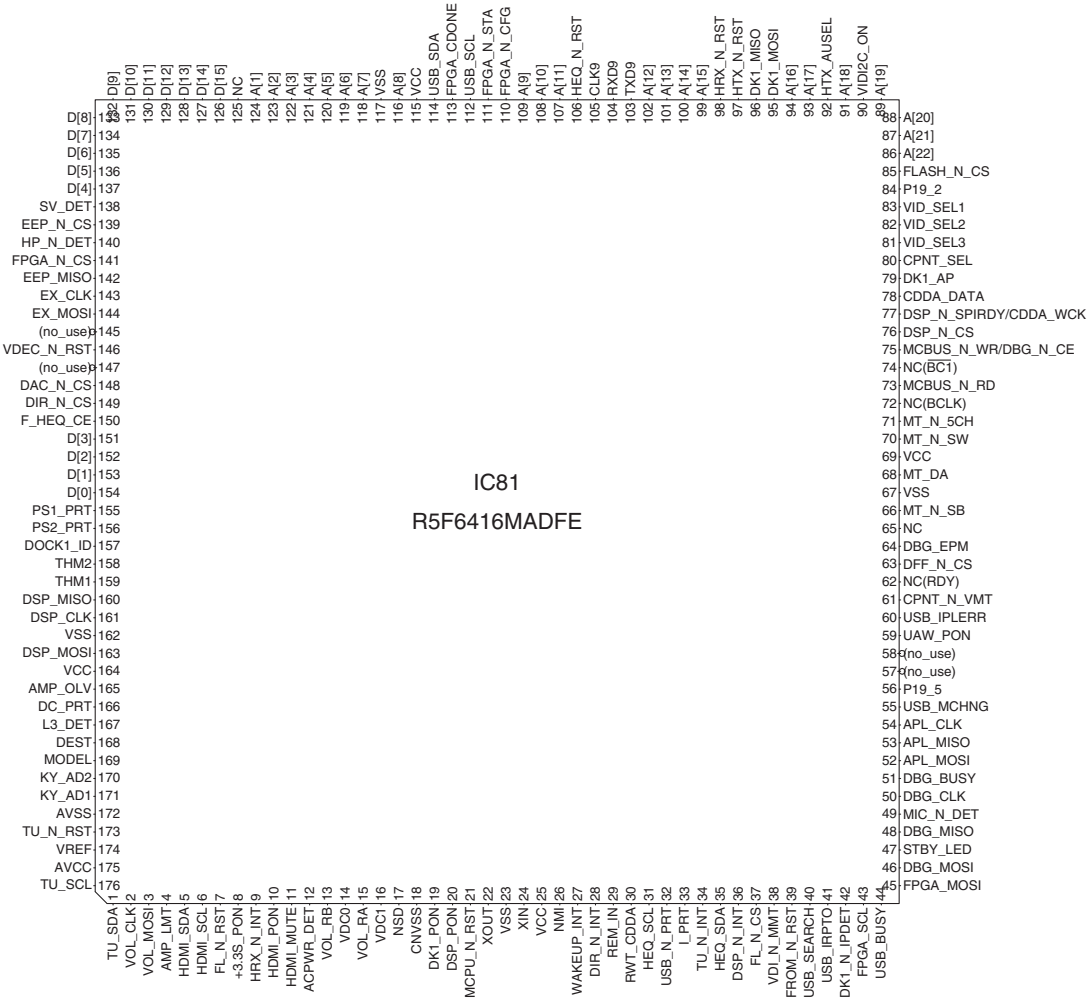
| | 1G-14G | 15G, 16G | 17G, 18G | 19, 20G | 21G, 21G | 23G |
|---|---|---|---|---|---|---|
| D0A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D1A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D2A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D3A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D4A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D5A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D6A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D7A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D8A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D9A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D10A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D11A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D12A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D13A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D14A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D15A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D16A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D17A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D18A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D19A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D20A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D21A | T1-T14 | T15 | T17 | T19 | T21 | T23 |
| D22A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D23A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D24A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D25A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D26A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D27A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D28A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D29A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D30A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D31A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D32A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D33A | T1-T14 | T15 | T17 | T19 | T21 | – |
| D34A | T1-T14 | T15 | T17 | T19 | T21 | – |

# ■ IC DATA

**IC81:** R5F6416MADFE (DIGITAL P.C.B.)
Microprocessor

*** No replacement part available. / サービス部品供給なし**






RX-A1010/RX-V1071

| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 1 | SRXD4/SDA4/TXD4/ ANEX1/P9_6 | TUN_SDA | I/O | Data | O | Low | Tuner I2C data |
| 2 | CLK4/ANEX0/P9_5 | HDR_MOSI | O | Data | O | Low | HD Radio transmission data (U model) |
| | | VOL1_SCK | O | Clock | O | Low | VOL1 (R2A15220FP #1) communication clock |
| 3 | N_CTS4/N_N_RTS4/ N_SS4/TB4IN/DA1/ P9_4 | VOL_MOSI | O | Data | O | Low | VOL1/VOL2/VOL3 communication data |
| 4 | N_CTS3/N_N_RTS3/ N_SS3/TB3IN/DA0/ P9_3 | AMP_LMT | O | D/A | I | --- | Limiter control |
| 5 | IEOUT/ISTXD2/ OUTC2_0/SRXD3/ SDA3/TXD3/TB2IN/ P9_2 | HDMI_SDA | I/O | Data | O | Low | HDMI and DVIDEO(AVIDEO:Vx071) 400k I2C data |
| 6 | IEIN/ISRXD2/STXD3/ SCL3/RXD3/TB1IN/ P9_1 | HDMI_SCL | O | Clock | O | Low | HDMI and DVIDEO (AVIDEO:Vx071) 400k I2C clock |
| 7 | CLK3/TB0IN/P9_0 | VOL2_SCK | O | Clock | O | Low | VOL2 (R2A15220FP #2) communication clock |
| 8 | P19_7 | VOL3_SCK | O | Clock | O | Low | VOL3 (NJW1194V, NJU7313AM) communication clock |
| 9 | N_INT8/P14_6 | HRX_N_INT | I | L act | O | Low | Interrupt from HDMI RX |
| 10 | P19_6 | FLD_N_RST | O | L act | O | Low | FLD reset |
| 11 | N_INT7/P14_5 | HDMI_MUTE | I | H act | O | Low | Mute from HDMI RX |
| 12 | N_INT6/P14_4 | PWR_DET | I | L act | I | --- | AC power detect |
| 13 | P14_3 | FLD_N_CS | O | L act | O | Low | FLD chip select |
| 14 | VDC0 | VDC0 | | | | | --- |
| 15 | P14_1 (for exclusive use of the input) | I_PRT | I | H act | I | --- | Current protection |
| 16 | VDC1 | VDC1 | | | | | --- |
| 17 | NSD | NSD | | | | | Debugger |
| 18 | CNVSS | DBG_CNVSS | | | | | --- |
| 19 | XCIN/P8_7 | MIC_N_DET | I | L act | O | Low | Microphone detection |
| 20 | XCOUT/P8_6 | PD_LED | O | H act | O | Low | PURE DIRECT LED |
| 21 | RESET | MCPU_N_RST | | | | | --- |
| 22 | XOUT | XOUT | | | | | --- |
| 23 | VSS | VSS | | | | | --- |
| 24 | XIN | XIN | | | | | --- |
| 25 | VCC | VCC | | | | | --- |
| 26 | NMI/P8_5 | NMI | | | | | --- |
| 27 | N_INT2/P8_4 | WAKEUP_INT | I | Both edges | O | Low | Power switch, MISO interrupt of RS-232C and Dock (Sleep return) |
| 28 | N_INT1/P8_3 | REM_IN2 | I | L act | O | Low | Remote control pulse input 2 |
| 29 | N_INT0/P8_2 | REM_IN1 | I | L act | O | Low | Remote control pulse input 1 |
| 30 | UD0B/UD1B/IIO1_5/ N_RTS5/N_CTS5/N_ SS5/U/TA4IN/P8_1 | TUN_N_INT | I | L act | O | Low | Interrupt from TUNER |
| | | --- | O | Low | O | Low | No used |
| 31 | UD0A/UD1A/RXD5/ SCL5/STXD5/U/ TA4OUT/P8_0 | HEQ_SCL | O | Clock | O | Low | HDMI switcher 100k I2C clock |
| 32 | P18_1 | FLD_PON | O | H act | O | Low | FL driver +3.3V power supply control |
| 33 | P18_0 | STBY_LED | O | H act | O | Low | Standby LED control |
| 34 | UD0B/UD1B/IIO1_4/ CLK5/TA3IN/P7_7 | DSP1_N_INT | I | L act | O | Low | Interrupt from DSP1 |
| 35 | UD0A/UD1A/IIO1_3/ N_RTS8/N_CTS8/ TXD5/SDA5/SRXD5/ TA3OUT/P7_6 | HEQ_SDA | I/O | Data | O | Low | HDMI switcher 100k I2C data |
| 36 | IIO1_2/RXD8/W/ TA2IN/P7_5 | DIR_N_INT | I | L act | O | Low | Interrupt from DIR |
| 37 | IIO1_1/CLK8/W/ TA2OUT/P7_4 | IR_CAR | O | Data | O | Low | Carrier output for SCENE IR (spare) |
| 38 | P17_7 | ISEL_RA | I | | I | --- | Input selector A |
| 39 | P17_6 | ISEL_RB | I | | I | --- | Input selector B |
| 40 | P17_5 | VOL_RA | I | | I | --- | Volume A |
| 41 | P17_4 | VOL_RB | I | | I | --- | Volume B |

| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 42 | IIO1_0/TXD8/N_SS2/ N_RTS2/N_CTS2/V/ TA1IN/P7_3 | DK1_N_IPDET | I | L act | O | Low | Dock iPod detect |
| 43 | CLK2/V/TA1OUT/ P7_2 | SR_PON | O | H act | O | Low | SIRIUS power supply control |
| 44 | MSCL/IEIN/ISRXD2/ OUTC2_2/IIO1_7/ STXD2/SCL2/RXD2/ TA0IN/TB5IN/P7_1 | SR_MISO | I | Data | O | Low | SIRIUS reception data |
| 45 | TA0OUT/TXD2/ SDA2/SRXD2/ IIO1_6/OUTC2_0/ ISTXD2/IEOUT/ MSDA/P7_0 | SR_MOSI | O | Data | O | Low | SIRIUS transmission data |
| 46 | TXD1/SDA1/SRXD1/ P6_7 | 232C_DBG_MOSI | O | Data | O | Low | RS-232C transmission data / Debug / E8a |
| 47 | P14_7 | DSP_PON | O | H act | O | Low | DSP power supply |
| 48 | RXD1/SCL1/STXD1/ P6_6 | 232C_DBG_MISO | I | Data | O | Low | RS-232C reception data / Debug / E8a |
| 49 | P11_7 | DAC_N_CS | O | L act | O | Low | DAC chip select (SW of V3071, FP DAC is D-FF) |
| 50 | CLK1/P6_5 | DBG_SCK | I | Clock | O | Low | E8a |
| 51 | N_CTS1/N_RTS1/ N_SS1/OUTC2_1/ ISCLK2/P6_4 | DBG_BUSY | O | | O | Low | E8a |
| 52 | TXD0/SDA0/SRXD0/ P6_3 | DSP_MOSI | O | Data | O | Low | DSP/DIR/DAC transmission data |
| 53 | TB2IN/RXD0/SCL0/ STXD0/P6_2 | DSP_MISO | I | Data | I | --- | DSP/DIR/DAC reception data |
| 54 | TB1IN/CLK0/P6_1 | DSP_SCK | O | Clock | O | Low | DSP/DIR/DAC communication clock |
| 55 | TB0IN/N_CTS0/N_ RTS0/N_SS0/P6_0 | NCPU_N_INT | I | H act | O | Low | Network microprocessor interrupt |
| 56 | P19_5 | --- | I | --- | I | --- | No used (+3.3DSP is applied, input port setting) |
| 57 | D31/OUTC2_7/ P13_7 | DSP1_N_RST | O | L act | O | Low | DSP1 reset |
| 58 | D30/OUTC2_1/ ISCLK2/P13_6 | EX_SCK | O | Clock | O | Low | FL/EEPROM/ expansion IO communication clock |
| 59 | D29/OUTC2_2/IS-RXD2/IEIN/P13_5 | EEP_MISO | I | Data | O | Low | EEPROM reception data |
| 60 | D28/OUTC2_0/ ISTXD2/IEOUT/ P13_4 | EX_MOSI | O | Data | O | Low | FL/EEPROM/ expansion IO transmission data |
| 61 | P19_4 | EEP_N_CS | O | L act | O | Low | EEPROM chip select |
| 62 | RDY/CS3/N_CTS7/ N_RTS7/P5_7 | FPGA_N_CS | B | Bus | O | Low | External bus FPGA chip select |
| 63 | ALE/CS2/RXD7/P5_6 | DFF2_N_CS | B | Bus | O | Low | External bus DFF2 chip select |
| 64 | HOLD/CLK7/P5_5 | DBG_EPM | I | | I | --- | E8a |
| 65 | HLDA/CS1/TXD7/ P5_4 | DFF1_N_CS | B | Bus | O | Low | External bus DFF1 chip select |
| 66 | D27/OUTC2_3/ P13_3 | --- | O | Low | O | Low | No used |
| 67 | VSS | VSS | | | | | --- |
| 68 | D26/OUTC2_6/ P13_2 | DSP1_N_SPIRDY | I | L act | O | Low | DSP1 SPI ready |
| 69 | VCC | VCC | | | | | --- |
| 70 | D25/OUTC2_5/ P13_1 | DSP2_N_CS | O | L act | O | Low | DSP2 chip select |
| 71 | D24/OUTC2_4/ P13_0 | DSP1_N_CS | O | L act | O | Low | DSP1 chip select |
| 72 | CLKOUT/BCLK/P5_3 | NC(BCLK) | B | Bus | O | Low | External bus |
| 73 | RD/P5_2 | MCBUS_N_RD | B | Bus | O | Low | External bus |
| 74 | WR1/BC1/P5_1 | NC(BC1) | B | Bus | O | Low | External bus |
| 75 | WR0/WR/P5_0 | MCBUS_N_WR | B | Bus | I | --- | External bus |
| | | DBG_N_CE | I | | I | --- | E8a |
| 76 | D23/P12_7 | MT_DA | O | H act | O | Low | Mute Digital Audio |
| 77 | D22/P12_6 | DIR_N_CS | O | L act | O | Low | DIR chip select |
| 78 | D21/P12_5 | DIR_N_RST | O | L act | O | Low | DIR reset |

| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 79 | P19_3 | DK1_AP | I | L act | I | --- | iPod accessory power |
| 80 | P17_3 | DK1_PON | O | H act | O | Low | Dock power supply |
| 81 | P17_2 | UAW_PON | O | H act | O | Low | UAW power supply control |
| 82 | P17_1 | NCPU_PON | O | H act | O | Low | NET/USB power supply |
| 83 | P17_0 | NET_SEL_M | O | H NET | O | Low | Main USB/NET select |
| 84 | P19_2 | NET_SEL_Z | O | H NET | O | Low | Zone USB/NET select |
| 85 | CS0/A23/TXD6/ SDA6/SRXD6/P4_7 | FLASH_N_CS | O | L act | O | Low | External bus Flash ROM chip select |
| 86 | CS1/A22/RXD6/ SCL6/STXD6/P4_6 | A[22] | B | Bus | O | Low | External bus |
| 87 | CS2/A21/CLK6/P4_5 | A[21] | B | Bus | O | Low | External bus |
| 88 | CS3/A20/N_CTS6/N_ RTS6/N_SS6/P4_4 | A[20] | B | Bus | O | Low | External bus |
| 89 | A19/TXD3/SDA3/ SRXD3/OUTC2_0/ ISTXD2/IEOUT/P4_3 | A[19] | B | Bus | O | Low | External bus |
| 90 | P11_6 | --- | O | Low | O | Low | Spare |
| 91 | A18/RXD3/SCL3/ STXD3/ISRXD2/IEIN/ P4_2 | A[18] | B | Bus | O | Low | External bus |
| 92 | P11_5 | --- | O | Low | O | Low | Spare |
| 93 | A17/CLK3/P4_1 | A[17] | B | Bus | O | Low | External bus |
| 94 | A16/N_CTS3/N_ RTS3/N_SS3/P4_0 | A[16] | B | Bus | O | Low | External bus |
| 95 | P16_7/TXD10 | DK_MOSI | O | Data | O | Low | Dock UART transmission data |
| 96 | P16_6/RXD10 | DK_MISO | I | Data | I | --- | Dock UART reception data (3.3V logic input) |
| 97 | P16_5/CLK10 | R32C_N_INT | O | L act | O | Low | Interrupt of R32C to Blackfin |
| 98 | P16_4/N_CTS10/N_ RTS10 | BF_MT | I | H act | O | Low | Mute signal from Blackfin (NCPU_N_INT distinction use) |
| 99 | A15/[A15/D15]/TA4IN/ U/P3_7 | A[15] | B | Bus | O | Low | External bus |
| 100 | A14/[A14/D14]/ TA4OUT/U/P3_6 | A[14] | B | Bus | O | Low | External bus |
| 101 | A13/[A13/D13]/TA2IN/ W/P3_5 | A[13] | B | Bus | O | Low | External bus |
| 102 | A12/[A12/D12]/ TA2OUT/W/P3_4 | A[12] | B | Bus | O | Low | External bus |
| 103 | P16_3/TXD9 | NCPU_PIC_MISO | O | Data | O | Low | Network microprocessor SPI transmission data |
| 104 | P16_2/RXD9 | NCPU_PIC_MOSI | I | Data | O | Low | Network microprocessor SPI reception data |
| 105 | P16_1/CLK9 | NCPU_PIC_SCK | I | Clock | O | Low | Network microprocessor SPI communication clock |
| 106 | P16_0/N_CTS9/N_ RTS9 | NCPU_N_RST | O | L act | O | Low | Network microprocessor reset |
| 107 | A11/[A11/D11]/TA1IN/ V/P3_3 | A[11] | B | Bus | O | Low | External bus |
| 108 | A10/[A10/D10]/ TA1OUT/V/P3_2 | A[10] | B | Bus | O | Low | External bus |
| 109 | A9/[A9/D9]/TA3OUT/ UD0B/UD1B/P3_1 | A[9] | B | Bus | O | Low | External bus |
| 110 | D20/P12_4 | --- | O | Low | O | Low | Spare |
| 111 | D19/N_CTS6/N_ RTS6/N_SS6/P12_3 | --- | O | Low | O | Low | Spare |
| 112 | D18/RXD6/SCL6/ STXD6/P12_2 | --- | O | Low | O | Low | Spare (After FPGA Config, I2C is possible) |
| 113 | D17/CLK6/P12_1 | FPGA_SCK | O | Clock | O | Low | FPGA clock (at Boot) |
| 114 | D16/TXD6/SDA6/ SRXD6/P12_0 | FPGA_MOSI | O | Data | O | Low | FPGA transmission data (at Boot) |
| 115 | VCC | VCC | | | | | --- |
| 116 | A8/[A8/D8]/TA0OUT/ UD0A/UD1A/P3_0 | A[8] | B | Bus | O | Low | External bus |
| 117 | VSS | VSS | | | | | --- |
| 118 | A7/[A7/D7]/AN2_7/ P2_7/TXD10 | A[7] | B | Bus | O | Low | External bus |
| 119 | A6/[A6/D6]/AN2_6/ P2_6/RXD10 | A[6] | B | Bus | O | Low | External bus |
| 120 | A5/[A5/D5]/AN2_5/ P2_5/CLK10 | A[5] | B | Bus | O | Low | External bus |

| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 121 | A4/[A4/D4]/AN2_4/ P2_4/N_CTS10/N_ RTS10 | A[4] | B | Bus | O | Low | External bus |
| 122 | A3/[A3/D3]/AN2_3/ P2_3/TXD9 | A[3] | B | Bus | O | Low | External bus |
| 123 | A2/[A2/D2]/AN2_2/ P2_2/RXD9 | A[2] | B | Bus | O | Low | External bus |
| 124 | A1/[A1/D1]/BC2/ [BC2/D1]/AN2_1/ P2_1/CLK9 | A[1] | B | Bus | O | Low | External bus |
| 125 | A0/[A0/D0]/BC0/ [BC0/D0]/AN2_0/ P2_0/N_CTS9/N_ RTS9 | A[0] | B | Bus | O | Low | External bus |
| 126 | D15/N_INT5/IIO0_7/ IIO1_7/P1_7 | D[15] | B | Bus | I | --- | External bus |
| 127 | D14/N_INT4/IIO0_6/ IIO1_6/P1_6 | D[14] | B | Bus | I | --- | External bus |
| 128 | D13/N_INT3/IIO0_5/ IIO1_5/P1_5 | D[13] | B | Bus | I | --- | External bus |
| 129 | D12/IIO0_4/IIO1_4/ P1_4 | D[12] | B | Bus | I | --- | External bus |
| 130 | D11/IIO0_3/IIO1_3/ P1_3 | D[11] | B | Bus | I | --- | External bus |
| 131 | D10/IIO0_2/IIO1_2/ P1_2 | D[10] | B | Bus | I | --- | External bus |
| 132 | D9/IIO0_1/IIO1_1/ P1_1 | D[9] | B | Bus | I | --- | External bus |
| 133 | IIO0_0/IIO1_0/D8/ P1_0 | D[8] | B | Bus | I | --- | External bus |
| 134 | AN0_7/D7/P0_7 | D[7] | B | Bus | I | --- | External bus |
| 135 | AN0_6/D6/P0_6 | D[6] | B | Bus | I | --- | External bus |
| 136 | AN0_5/D5/P0_5 | D[5] | B | Bus | I | --- | External bus |
| 137 | AN0_4/D4/P0_4 | D[4] | B | Bus | I | --- | External bus |
| 138 | P19_1 | FPGA_N_CFG | O | L act | O | Low | FPGA nCONF |
| 139 | WR3/BC3/P11_4 | FPGA_N_STA | I | L act | I | --- | FPGA nSTATUS |
| 140 | P19_0 | FPGA_CDONE | I | H act | I | --- | FPGA CONF DONE |
| 141 | IIO1_3/N_RTS8/N_ CTS8/WR2/CS3/ P11_3 | --- | O | Low | O | Low | No used |
| 142 | IIO1_2/RXD8/CS2/ P11_2 | NCPU_MISO | I | Data | O | Low | Network microprocessor UART reception data |
| 143 | IIO1_1/CLK8/CS1/ P11_1 | MT_N_Z3 | O | L act | O | Low | Mute Zone3/Rear Presence (Preout) |
| 144 | IIO1_0/TXD8/CS0/ P11_0 | NCPU_MOSI | O | Data | O | Low | Network microprocessor UART transmission data |
| 145 | P18_7 | MT_N_F_MI | O | L act | O | Low | Mute Front (Main amplifier input) |
| 146 | P18_6 | MT_N_Z2 | O | L act | O | Low | Mute Zone2/Front Presence (Preout) |
| 147 | P18_5 | MT_N_SB_PO | O | L act | O | Low | Mute SB (Preout) |
| 148 | P18_4 | MT_N_MZ | O | L act | O | Low | Mute Main Zone (Preout/Main amplifier input) |
| 149 | P18_3 | MT_N_EX1_MI | O | L act | O | Low | Mute SP1 (Main amplifier input) |
| 150 | P18_2 | MT_N_SB_MI | O | L act | O | Low | Mute Surround back (Main amplifier input) |
| 151 | AN0_3/D3/P0_3 | D[3] | B | Bus | I | --- | External bus |
| 152 | AN0_2/D2/P0_2 | D[2] | B | Bus | I | --- | External bus |
| 153 | AN0_1/D1/P0_1 | D[1] | B | Bus | I | --- | External bus |
| 154 | AN0_0/D0/P0_0 | D[0] | B | Bus | I | --- | External bus |
| 155 | IIO0_7/N_RTS6/ N_CTS6/N_SS6/ AN15_7/P15_7 | SVID_DET | I | H act | I | --- | S-video detect |
| 156 | IIO0_6/CLK6/ AN15_6/P15_6 | HP_N_DET | I | L act | O | Low | Headphone detection |
| 157 | IIO0_5/RXD6/SCL6/ STXD6/AN15_5/ P15_5 | EX1_N_CS | O | L act | O | Low | Expansion IO 1 chip select |



RX-A1010/RX-V1071

| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 158 | IIO0_4/TXD6/SDA6/ SRXD6/AN15_4/ P15_4 | EX1_N_RST | O | L act | O | Low | Expansion IO 1 reset |
| 159 | IIO0_3/N_RTS7/N_ CTS7/AN15_3/P15_3 | AD_SEL_A | O | | O | Low | AD select A |
| 160 | IIO0_2/RXD7/ AN15_2/P15_2 | AD_SEL_B | O | | O | Low | AD select B |
| 161 | IIO0_1/CLK7/ AN15_1/P15_1 | IR_OUT | O | Data | O | Low | Remote control cord output |
| 162 | VSS | VSS | | | | | --- |
| 163 | IIO0_0/TXD7/ AN15_0/P15_0 | AD_SEL_C | O | | O | Low | AD select C |
| 164 | VCC | VCC | | | | | --- |
| 165 | KI3/AN_7/P10_7 | +3.3S_PON | O | H act | O | Low | +3.3S power supply |
| 166 | KI2/AN_6/P10_6 | AD2_COM | I | A/D | O | Low | AD select 2 COM input |
| 167 | KI1/AN_5/P10_5 | AD1_COM | I | A/D | O | Low | AD selector 1 COM input |
| 168 | KI0/AN_4/P10_4 | DEST | I | A/D | O | Low | Destination distinction |
| 169 | AN_3/P10_3 | MODEL | I | A/D | O | Low | Model distinction |
| 170 | AN_2/P10_2 | KY_AD2 | I | A/D | O | Low | Key 2 |
| 171 | AN_1/P10_1 | KY_AD1 | I | A/D | O | Low | Key 1 |
| 172 | AVSS | AVSS | | | | | --- |
| 173 | AN_0/P10_0 | TUN_N_RST | O | L act | O | Low | Tuner reset |
| | | HDR_N_RST | O | L act | O | Low | HD Radio reset (U model) |
| 174 | VREF | VREF | | | | | --- |
| 175 | AVCC | AVCC | | | | | --- |
| 176 | STXD4/SCL4/RXD4/ ADTRG/P9_7 | TUN_SCL | O | Data | O | Low | Tuner I2C clock |
| | | HDR_MISO | I | Data | O | Low | HD Radio reception data (U model) |

Key detection for A/D port
Key input (A/D) pull-up resistance 10 k-ohms

| Ohm | 0 | + 0.82 k | + 0.82 k | + 1.0 k | + 1.5 k | + 1.5 k | + 1.8 k | + 2.7 k |
|---|---|---|---|---|---|---|---|---|
| V | 0 – 0.125 | 0.125 – 0.358 | 0.358 – 0.577 | 0.577 – 0.828 | 0.828 – 1.078 | 1.078 – 1.299 | 1.299 – 1.535 | 1.535 – 1.777 |
| A/D conversion value (3.3 V=255) | 0 – 9 | 10 – 27 | 28 – 44 | 45 – 63 | 64 – 83 | 84 – 100 | 101 – 118 | 119 – 137 |
| KY_AD1 (139 pin of the microprocessor) | SCENE 4 | SCENE 3 | SCENE 2 | SCENE 1 | ZONE2 ON/OFF | – – | – – | MAIN ZONE ⏻ |

| Ohm | 0 | + 0.82 k | + 0.82 k | + 1.0 k | + 1.5 k | + 1.5 k | + 1.8 k | + 2.7 k | + 3.3 k | + 4.7 k | + 6.8 k | + 12.0 k | + 22.0 k |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V | 0 – 0.125 | 0.125 – 0.358 | 0.358 – 0.577 | 0.577 – 0.828 | 0.828-1.078 | 1.078 – 1.299 | 1.299 – 1.535 | 1.535 – 1.777 | 1.777 – 2.010 | 2.010 – 2.241 | 2.241 – 2.476 | 2.476 – 2.709 | 2.709 – 2.940 |
| A/D conversion value (3.3 V=255) | 0 – 9 | 10 – 27 | 28 – 44 | 45 – 63 | 64-83 | 84 – 100 | 101 – 118 | 119 – 137 | 138 – 155 | 156 – 173 | 174 – 191 | 192 – 209 | 210 – 227 |
| KY_AD2 (138 pin of the microprocessor) | STRAIGHT | TONE/ BALANCE | OPTION | △ | ON SCREEN | < | ENTER | > | PROGRAM < | PROGRAM > | DISPLAY | ▽ | RETURN |

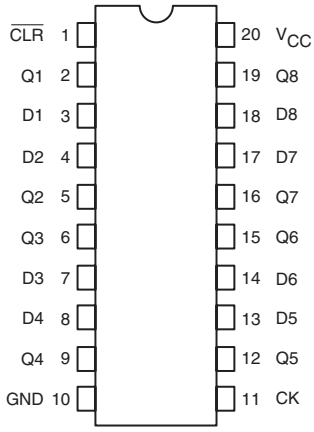
| Ohm | 0 | + 0.82 k | + 0.82 k | + 1.0 k | + 1.5 k | + 1.5 k | + 1.8 k | + 2.7 k | + 3.3 k | + 4.7 k |
|---|---|---|---|---|---|---|---|---|---|---|
| V | 0 – 0.125 | 0.125 – 0.358 | 0.358 – 0.577 | 0.577 – 0.828 | 0.828 – 1.078 | 1.078 – 1.299 | 1.299 – 1.535 | 1.535 – 1.777 | 1.777 – 2.010 | 2.010 – 2.241 |
| A/D conversion value (3.3 V=255) | 0 – 9 | 10 – 27 | 28 – 44 | 45 – 63 | 64 – 83 | 84 – 100 | 101 – 118 | 119 – 137 | 138 – 155 | 156 – 173 |
| KY_AD3 (14 pin of the IC902) | PRESET > | PRESET < | MEMORY | INFO | ZONE CONTROL | FM | AM | TUNING/CH << | TUNING/CH >> | PURE DIRECT |

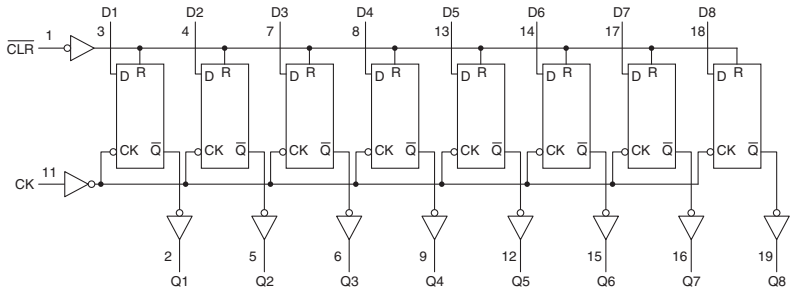
Destination detection for AD port
Pull-up resistance 10 k-ohms

| Destination | J | U | C | R | T | K | A | B, G, F | L |
|---|---|---|---|---|---|---|---|---|---|
| A/D conversion value (3.3 V=255) | 0 – 12 | 13 – 39 | 40 – 67 | 68 – 92 | 93 – 115 | 116 – 140 | 141 – 169 | 199 – 221 | 222 – 244 |

- **Microprocessor extended port**

**IC84, 85:** TC74VHC273FT (DIGITAL P.C.B.)
Octal D-type flip-flop with clear




| Inputs | | | Output | Function |
|---|---|---|---|---|
| $\overline{CLR}$ | D | CK | Q | |
| L | X | X | L | Clear |
| H | L | ↑ | L | – |
| H | H | ↑ | H | – |
| H | X | ↓ | $Q_n$ | No Change |

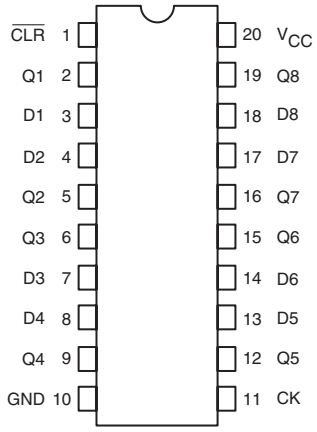
**IC84**

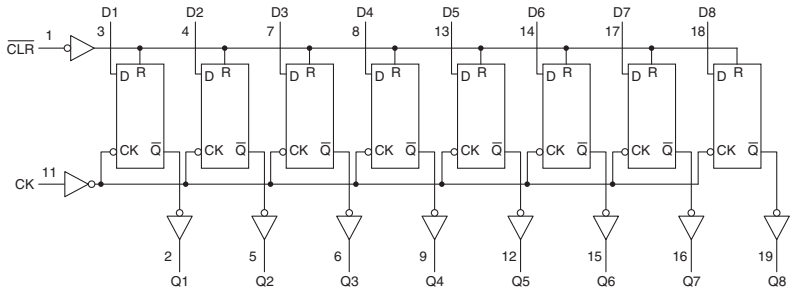
| Pin No. | R32C external bus data | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 2 | D[8] | HDMI_PON | O | H act | O | Low | HDMI power supply (Necessary for DSP, AVIDEO drive) |
| 5 | D[9] | HRX_N_RST | O | L act | O | Low | HDMI RX reset |
| 6 | D[10] | HTX1_N_RST | O | L act | O | Low | HDMI TX reset |
| 9 | D[11] | HTX2_N_RST | O | L act | O | Low | HDMI TX2 reset |
| 12 | D[12] | FROM_N_RST | O | L act | O | Low | FLASH reset |
| 15 | D[13] | HTX_AUSEL | O | H HRX | O | Low | HDMI TX sound select |
| 16 | D[14] | HAU_N_OE | O | L act | O | Low | HDMI to DIR sound output enable |
| 19 | D[15] | VIDI2C_ON | O | H act | O | Low | I2C line switch to video device |

**IC85**

| Pin No. | R32C external bus data | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 2 | D[0] | HEQ_N_RST | O | L act | O | Low | HDMI switcher reset |
| 5 | D[1] | VDEC_N_RST | O | L act | O | Low | Video decoder reset |
| 6 | D[2] | USB_OC_FLG | O | H act | O | Low | USB overcurrent detection flag R32C to BF |
| 9 | D[3] | HRX_VSEL | O | L DEC | O | Low | Video decoder to scaler line enable |
| 12 | D[4] | F_HEQ_CE | O | H act | O | Low | Front HDMI EQ chip enable |
| 15 | D[5] | VID_PON | O | H act | O | Low | Video power supply |
| 16 | D[6] | +3.3D_PON | O | H act | O | Low | OR of HDMI_PON, DSP_PON, NET_USB_PON |
| 19 | D[7] | PRY | O | H act | O | Low | Power relay |

**IC86, 87:** TC74VHC273FT (DIGITAL P.C.B.)
Octal D-type flip-flop with clear




| Inputs | | | Output | Function |
|---|---|---|---|---|
| $\overline{CLR}$ | D | CK | Q | |
| L | X | X | L | Clear |
| H | L | ↑ | L | – |
| H | H | ↑ | H | – |
| H | X | ↓ | $Q_n$ | No Change |

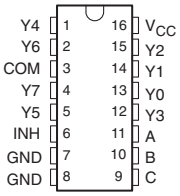
**IC86**

| Pin No. | R32C external bus data | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 2 | D[8] | MONO_Z2 | O | H act | O | Low | Zone2 stereo/mono output switch |
| 5 | D[9] | MONO_Z3 | O | H act | O | Low | Zone3 stereo/mono output switch |
| 6 | D[10] | EX2_N_RST | O | L act | O | Low | Reset of expansion IO2 |
| 9 | D[11] | EX2_N_CS | O | H act | O | Low | chip select of expansion IO2 |
| 12 | D[12] | – | O | L act | O | Low | No used |
| 15 | D[13] | – | O | L act | O | Low | No used |
| 16 | D[14] | – | O | H act | O | Low | No used |
| 19 | D[15] | – | O | H act | O | Low | No used |

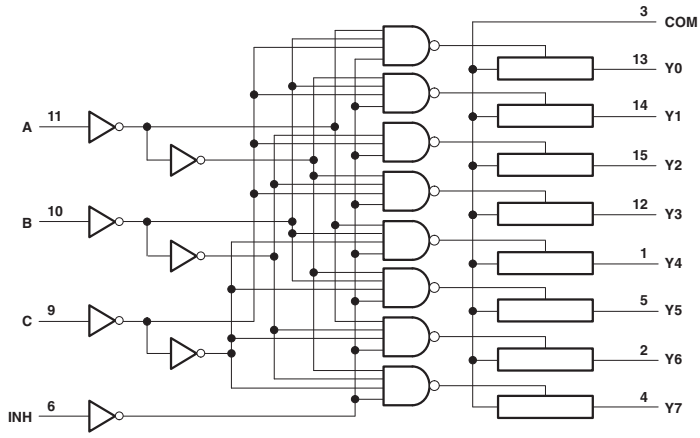
**IC87**

| Pin No. | R32C external bus data | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 2 | D[0] | – | O | L act | O | Low | No used |
| 5 | D[1] | – | O | H act | O | Low | No used |
| 6 | D[2] | FLP_PON | O | H act | O | Low | FL driver VH and filament power supply control |
| 9 | D[3] | DAC_N_RST | O | L act | O | Low | DAC Reset C/SR/SB/SW |
| 12 | D[4] | DAC_N_RST_F | O | L act | O | Low | DAC Reset Front |
| 15 | D[5] | PLL_ON | O | H act | O | Low | Ultra low jitter PLL (CS2300) control |
| 16 | D[6] | – | O | L act | O | Low | No used |
| 19 | D[7] | VOL3_CS | O | L act | O | Low | VOL3 (NJW1194V, NJU7313AM) chip select |

**IC89, 90:** SN74LV4051APWR (DIGITAL P.C.B.)
8-channel analog multiplexers/demultiplexers




| INPUTS | | | | ON CHANNEL |
|---|---|---|---|---|
| INH | C | B | A | |
| L | L | L | L | Y0 |
| L | L | L | H | Y1 |
| L | L | H | L | Y2 |
| L | L | H | H | Y3 |
| L | H | L | L | Y4 |
| L | H | L | H | Y5 |
| L | H | H | L | Y6 |
| L | H | H | H | Y7 |
| H | X | X | X | None |




**IC89**

| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 1 | Y4 | PS2_PRT | I | A/D | I | --- | Power supply protection 2 |
| 2 | Y6 | PS1_PRT | I | A/D | I | --- | Power supply protection 1 |
| 4 | Y7 | AMP_OLV | I | A/D | I | --- | Amplifier output level detection |
| 5 | Y5 | DC_PRT | I | A/D | I | --- | DC protection |
| 12 | Y3 | THM1 | I | A/D | I | --- | Temperature detection 1 |
| 13 | Y0 | DK1_ID | I | A/D | I | --- | Dock ID detection |
| 14 | Y1 | L3_DET | I | A/D | I | --- | D terminal L3 detection |
| 15 | Y2 | MODE | I | A/D | I | --- | Special mode distinction |

**IC90**

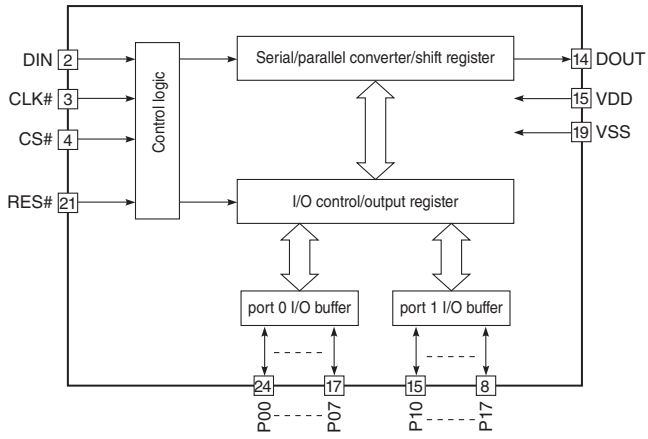
| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 1 | Y4 | THM2 | I | A/D | I | --- | Temperature detection 2 |
| 2 | Y6 | THM3 | I | A/D | I | --- | No used |
| 4 | Y7 | THM4 | I | A/D | I | --- | No used |
| 5 | Y5 | KY_AD3 | I | A/D | I | --- | Key 3 |
| 12 | Y3 | – | I | A/D | I | --- | No used |
| 13 | Y0 | – | I | A/D | I | --- | No used |
| 14 | Y1 | – | I | A/D | I | --- | No used |
| 15 | Y2 | – | I | A/D | I | --- | No used |

DOCK detection for AD port
Pull-up resistance 10 k-ohms

| DOCK type (DKID 13 pin) | Bluetooth (YBA-10) | Wireless iPod (YID-W10) | iPod | | No connected |
|---|---|---|---|---|---|
| | | | (YDS-10/11/12(B*)) | (YDS-12(A*)) | |
| A/D value (3.3 V=255) | 5 – 25 | 85 – 100 | 120 – 140 | 150 – 170 | 255 |

* Mode switch setting of the YDS-12

**IC306:** LC709004A-TLM-E (VIDEO P.C.B.)
I/O-expander for microcontroller




**Expansion IO1**

| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 8 | P17 | – | O | Low | O | Low | No used |
| 9 | P16 | – | O | Low | O | Low | No used |
| 10 | P15 | – | O | Low | O | Low | No used |
| 11 | P14 | DC_TRG2 | O | H act | O | Low | Control out 2 |
| 12 | P13 | – | O | Low | O | Low | No used |
| 13 | P12 | DC_TRG1 | O | H act | O | Low | Control out 1 |
| 14 | P11 | VO_SEL2 | O | Low | O | Low | MON output select of Y/C |
| 15 | P10 | VO_SEL1 | O | Low | O | Low | MON output select of Y/C |
| 17 | P07 | – | O | Low | O | Low | No used |
| 18 | P06 | VID_SEL1 | O | | O | Low | Input select of Y/C |
| 19 | P05 | VID_SEL2 | O | | O | Low | Input select of Y/C |
| 20 | P04 | VID_SEL3 | O | | O | Low | Input select of Y/C |
| 21 | P03 | V_N_FMUTE | O | | O | Low | Video full mute |
| 22 | P02 | VZ_SEL3 | O | | O | Low | Zone2 select of Y/C |
| 23 | P01 | VZ_SEL2 | O | | O | Low | Zone2 select of Y/C |
| 24 | P00 | VZ_SEL1 | O | | O | Low | Zone2 select of Y/C |

**IC101:** LC709004A-TLM-E (MAIN P.C.B.)
I/O-expander for microcontroller

**Expansion IO2**

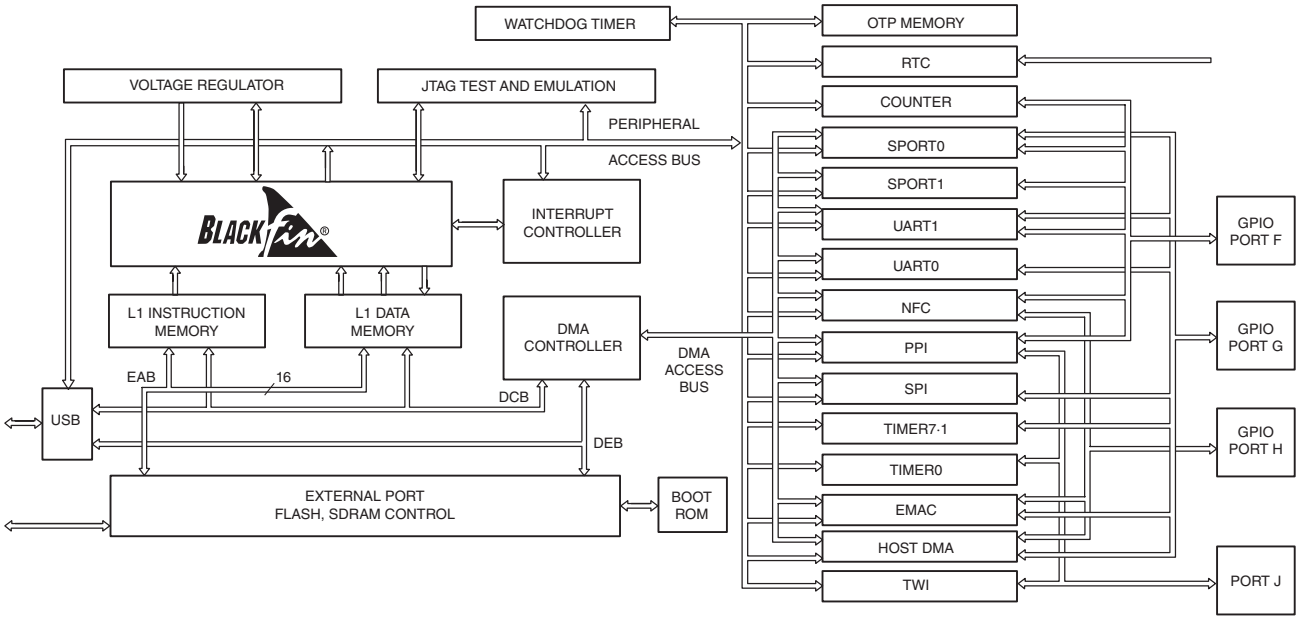
| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 8 | P17 | – | – | – | O | Low | No used |
| 9 | P16 | – | – | – | O | Low | No used |
| 10 | P15 | – | – | – | O | Low | No used |
| 11 | P14 | – | – | – | O | Low | No used |
| 12 | P13 | AMP_POFF | O | H act | O | Low | Reserve (Power amplifier off for preamp mode) |
| 13 | P12 | PRY2 | O | H act | O | Low | Power relay<br>(Z71, Reserve at the time of the toroidal correspondence) |
| 14 | P11 | – | – | – | O | Low | No used |
| 15 | P10 | PA_B_RY1 | O | H : B = Low | O | Low | Power amplifier B power supply control 1 |
| 17 | P07 | – | – | – | O | Low | No used |
| 18 | P06 | – | – | – | O | Low | No used |
| 19 | P05 | – | – | – | O | Low | No used |
| 20 | P04 | SPRY_ZFP_CTRL | O | H act | O | Low | SP relay SB -> Front presence/Zone |
| 21 | P03 | SPRY_SB_CTRL | O | H act | O | Low | SP relay surround back |
| 22 | P02 | SPRY_SR_CTRL | O | H act | O | Low | SP relay surround |
| 23 | P01 | SPRY_C_CTRL | O | H act | O | Low | SP relay center |
| 24 | P00 | SPRY_F_CTRL | O | H act | O | Low | SP relay front |

**IC101:** SiI9233ACTU (DIGITAL P.C.B.)
HDMI receiver

| Pin No. | Port Name | Function Name | Related Power Supply | | | | Detail of Function |
|---|---|---|---|---|---|---|---|
| | | | ON | | OFF | | |
| | | | I/O | Logic | I/O | Logic | |
| 13 | GPIO1 | SCDT | O | data | --- | --- | SCDT output |
| 14 | GPIO2 | EVNODD | O | data | --- | --- | EVN/ODD output |
| 16 | GPIO4 | RX_CEC_RY1 | O | H act | --- | --- | CEC relay control |
| 17 | GPIO5 | RX_CEC_RY2 | O | H act | --- | --- | CEC relay control |
| 19 | GPIO6 | 5HT1_PON | O | H act | --- | --- | HDMI OUT1 5VPWR output control |
| 20 | GPIO7 | 5HT2_PON | O | H act | --- | --- | HDMI OUT2 5VPWR output control |
| 107 | GPIO3 | HDMI_MUTE | O | H act | --- | --- | HDMI mute interrupt output |

**IC901:** ADSST-DR-11Z (DIGITAL P.C.B.)
Network microprocessor

*** No replacement part available.**




| Pin No. | | Port Name | Function Name | ON | | Detail of Function |
|---|---|---|---|---|---|---|
| | | | | I/O | Logic | |
| 1 | A1 | GND | GND | | | |
| 2 | A2 | PF9/PPI_D9/ RSCLK1/%SPISEL6% | DBG_LED1 | B | Data | Debug input/output port1 (DIP_SW1 input/LED1 output) |
| 3 | A3 | PF11/PPI_D11/TFS1/CZM | BF_WCK1 | I | Clock | I2S word clock input |
| 4 | A4 | SCL | BF_I2C_SCL | O | Clock | EEPROM / VideoENC / Apple_Coprocessor / Clock I2C data |
| 5 | A5 | PF13/PPI_D13/ TSCLK1/%SPISEL3%/CUD | BF_BCK1 | I | Clock | I2S Bit clock input |
| 6 | A6 | PF15/PPI_D15/DR1SEC/UAR-T1RX/TACI3 | --- | | | |
| 7 | A7 | PH0/ND_D0/MIICRS/RMIICRSDV/ HOST_D0 | RMII_CRSDV | I | Data | PHY: RMII carrier sence/DataValid |
| 8 | A8 | PH2/ND_D2/MDIO/HOST_D2 | PHY_MDIO | B | Data | PHY: Management channel clock |
| 9 | A9 | PH4/ND_D4/MIITXCLK/RMII_REF-CLK/HOST_D4 | RMII_REFCLK | I | Clock | PHY: RMII reference clock (50MHz) |
| 10 | A10 | XTAL | | | | 23.04MHz crystal |
| 11 | A11 | CLKIN | | | | 23.04MHz crystal |
| 12 | A12 | PH8/%SPISEL4%/ERXD1/HOST_ D8/TACLK2 | RMII_RXD1 | I | Data | PHY: RMII RXD1 |
| 13 | A13 | PH10/%ND_CE%/ERXD2/HOST_ D10 | PHY_N_FDX | I | Data | PHY: PHY_NWAYEN |
| 14 | A14 | RTXI | | I | Clock | |
| 15 | A15 | RTXO | | O | Clock | |
| 16 | A16 | VDDRTC | | | | |
| 17 | A17 | GND | | | | |
| 18 | A18 | USB_XO | | O | Clock | |
| 19 | A19 | USB_XI | | I | Clock | 24MHzUSB clock input |
| 20 | A20 | GND | | | | |
| 21 | B1 | PF7/PPI_D7/DR0SEC/ND_D7A/ TACI1 | USB_FSSEL | O | Data | I2S (USB) FS select |
| 22 | B2 | PF8/PPI_D8/DR1PRI | DBG_LED0 | B | Data | Debug input/output port0 (DIP_SW0 input/LED0 output) |
| 23 | B3 | PF10/PPI_D10/RFS1/%SPISEL7% | PLD_N_RST | O | L act | PLD reset |
| 24 | B4 | SDA | BF_I2C_SDA | B | Data | I2C data (EEPROM / Apple_Coprocessor / Clock) |
| 25 | B5 | PF12/PPI_D12/ DT1PRI/%SPISEL2%/CDG | BF_SDO1 | O | Data | I2S1 data output |
| 26 | B6 | PF14/PPI_D14/DT1SEC/UART1TX | APPLE_N_RST | O | L act | Apple certification chip reset (L: reset) |
| 27 | B7 | PH1/ND_D1/ERXER/HOST_D1 | RMII_RXER | I | Data | PHY: RMII receive error |
| 28 | B8 | PH3/ND_D3/ETXEN/HOST_D3 | RMII_TXEN | O | Clock | PHY: RMII TX enable |

| Pin No. | | Port Name | Function Name | ON | | Detail of Function |
|---|---|---|---|---|---|---|
| | | | | I/O | Logic | |
| 29 | B9 | PH5/ND_D5/ETXD0/HOST_D5 | RMII_TXD0 | O | Data | PHY: RMII TXD0 |
| 30 | B10 | PH6/ND_D6/ERXD0/HOST_D6 | RMII_RXD0 | I | Data | PHY: RMII RXD0 |
| 31 | B11 | PH7/ND_D7/ETXD1/HOST_D7 | RMII_TXD1 | O | Data | PHY: RMII TXD1 |
| 32 | B12 | PH9/%SPISEL5%/ETXD2/HOST_D9/TACLK3 | SPI_N_ON | O | Data | R32C to/from Blackfin SPI_I/F switch control (L: active, H: off) |
| 33 | B13 | PH11/%ND_WE%/ETXD3/HOST_D11 | PHY_N_100M | O | Data | PHY_SPEED |
| 34 | B14 | PH12/%ND_RE%/ERXD3/HOST_D12 | PHY_N_RST | O | H act | PHY Rset (L: reset) |
| 35 | B15 | PH13/%ND_BUSY%/ERXCLK/HOST_D13 | USB_PWR | O | H act | USB vbus power Control (H: power on) |
| 36 | B16 | PH14/ND_CLE/ERXDV/HOST_D14 | BF_MT | O | H act | Mute output to R32C |
| 37 | B17 | PH15/ND_ALE/COL/HOST_D15 | USB_OC_FLG | I | H act | USB vbus over current flag (R32C to BF) |
| 38 | B18 | /RESET | BF_N_RST | I | Lact | CPU reset |
| 39 | B19 | /NMI | | | | |
| 40 | B20 | GND | | | | |
| 41 | C1 | PF5/PPI_D5/TSCLK0/ND_D5A/TACLK1 | BF_BCK0 | I | Clock | I2S0 BCK input |
| 42 | C2 | PF6/PPI_D6/DT0SEC/ND_D6A/TACI0 | USB_MSEL | O | Data | I2S (USB) master clock select |
| 43 | C19 | CLKBUF | (USB_REFCLK) | | | CPU clock buffered output |
| 44 | C20 | USB_ID | USB_ID | I | Data | USB ID |
| 45 | D1 | PF3/PPI_D3/DT0PRI/ND_D3A | BF_SDO0 | O | Data | I2S0 data output |
| 46 | D2 | PF4/PPI_D4/TFS0/ND_D4A/TA-CLK0 | BF_WCK0 | I | Clock | I2S0 WCK input |
| 47 | D19 | VDDUSB | | | | |
| 48 | D20 | USB_RSET | --- | | | |
| 49 | E1 | PF1/PPI_D1/RFS0/ND_D1A | NET_FSSEL | O | Data | I2S (NET) FS select |
| 50 | E2 | PF2/PPI_D2/RSCLK0/ND_D2A | R32C_N_INT | I | L act | Interrupt input from R32C |
| 51 | E19 | USB_VBUS | USB_VBUS | I | - | USB_VBUS |
| 52 | E20 | USB_DP | USB_DP | B | Data | USB Data D+ |
| 53 | F1 | PF0/PPI_D0/DR0PRI/ND_D0A | NET_MSEL | O | Data | I2S (NET) master clock select |
| 54 | F2 | PPI_FS1/TMR0 | --- | | | |
| 55 | F19 | VRSEL/VDDEXT | | | | |
| 56 | F20 | USB_DM | USB_DM | B | Data | USB data D- |
| 57 | G1 | PG15/TFS0A/MII PHYINT/RMII MDINT/HOST_CE | RMII_MDINT | | | RMII management |
| 58 | G2 | PPI_CLK/TMRCLK | | | | |
| 59 | G7 | VDDEXT | | | | |
| 60 | G8 | VDDEXT | | | | |
| 61 | G9 | VDDEXT | | | | |
| 62 | G10 | VDDEXT | | | | |
| 63 | G11 | VDDEXT | | | | |
| 64 | G12 | VDDINT | | | | |
| 65 | G13 | VDDINT | | | | |
| 66 | G14 | VDDINT | | | | |
| 67 | G19 | SS//PG | | | | |
| 68 | G20 | VDDUSB | | | | |
| 69 | H1 | PG13/DMAR0/UART1RXA/HOST_ADDR/TACI2 | NCPU_MOSI | I | Data | UART input R32C to Blackfin |
| 70 | H2 | PG14/TSCLK0A1/MDC/%HOST_RD% | PHY_MDC | | | PHY MDC |
| 71 | H7 | VDDEXT | | | | |
| 72 | H8 | VDDEXT | | | | |
| 73 | H9 | GND | | | | |
| 74 | H10 | GND | | | | |
| 75 | H11 | GND | | | | |
| 76 | H12 | GND | | | | |
| 77 | H13 | GND | | | | |
| 78 | H14 | VDDINT | | | | |
| 79 | H19 | USB_VREF | | O | - | |
| 80 | H20 | VROUT/EXT_WAKE1 | VROUT | O | PWM | |
| 81 | J1 | PG11/TMR7/%HOST_WR% | NCPU_N_INT | O | L act | Interrupt to BF to R32C |
| 82 | J2 | PG12/DMAR1/UART1TXA/HOST_ACK | NCPU_MISO | O | Data | UART output Blackfin to R32C |
| 83 | J7 | VDDEXT | | | | |
| 84 | J8 | VDDEXT | | | | |
| 85 | J9 | GND | | | | |

| Pin No. | | Port Name | Function Name | ON | | Detail of Function |
|---|---|---|---|---|---|---|
| | | | | I/O | Logic | |
| 86 | J10 | GND | | | | |
| 87 | J11 | GND | | | | |
| 88 | J12 | GND | | | | |
| 89 | J13 | GND | | | | |
| 90 | J14 | VDDINT | | | | |
| 91 | J19 | /AMS0 | --- | | | |
| 92 | J20 | EXT_WAKE0 | | O | Data | Wake up indication 0 |
| 93 | K1 | PG9/TMR5/RSCLK0A/TACI5 | NCPU_PIC_MISO | O | L act | Buffer overflow flag of FPGA |
| 94 | K2 | PG10/TMR6/TSCLK0A/TACI6 | MT_DAC_Z | O | H act | ZONE DAC mute |
| 95 | K7 | VDDEXT | | | | |
| 96 | K8 | VDDEXT | | | | |
| 97 | K9 | GND | | | | |
| 98 | K10 | GND | | | | |
| 99 | K11 | GND | | | | |
| 100 | K12 | GND | | | | |
| 101 | K13 | GND | | | | |
| 102 | K14 | VDDINT | | | | |
| 103 | K19 | /AMS1 | --- | | | |
| 104 | K20 | CLKOUT | BF_CLK | O | Clock | SDRAM clock |
| 105 | L1 | PG7/TMR3/DR0PRIA/UART0TX | DBG_MOSI | O | Data | UART Tx for Debug |
| 106 | L2 | PG8/TMR4/RFS0A/UART0RX/ TACI4 | DBG_MISO | I | Data | UART Rx for Debug |
| 107 | L7 | VDDEXT | | | | |
| 108 | L8 | VDDMEM | | | | |
| 109 | L9 | GND | | | | |
| 110 | L10 | GND | | | | |
| 111 | L11 | GND | | | | |
| 112 | L12 | GND | | | | |
| 113 | L13 | GND | | | | |
| 114 | L14 | VDDINT | | | | |
| 115 | L19 | VPPOTP | | | | |
| 116 | L20 | /AMS3 | --- | | | |
| 117 | M1 | PG5/TMR1/PPI_FS2 | --- | O | L act | |
| 118 | M2 | PG6/DT0PRIA/TMR2/PPI_FS3 | APPLE_I2C_ON | O | H act | APPLE I2C line switch control (H: connect, L: disconnect) |
| 119 | M7 | VDDMEM | | | | |
| 120 | M8 | VDDMEM | | | | |
| 121 | M9 | GND | | | | |
| 122 | M10 | GND | | | | |
| 123 | M11 | GND | | | | |
| 124 | M12 | GND | | | | |
| 125 | M13 | GND | | | | |
| 126 | M14 | VDDINT | | | | |
| 127 | M19 | /AMS2 | --- | | | |
| 128 | M20 | /ARE | BF_N_ARE | O | L act | EBIU read enable |
| 129 | N1 | PG3/MISO/DR0SECA | BF_SPI_MISO | I | Data | |
| 130 | N2 | PG4/MOSI/DT0SECA | BF_SPI_MOSI | O | Data | |
| 131 | N7 | VDDMEM | | | | |
| 132 | N8 | VDDMEM | | | | |
| 133 | N9 | GND | | | | |
| 134 | N10 | GND | | | | |
| 135 | N11 | GND | | | | |
| 136 | N12 | GND | | | | |
| 137 | N13 | GND | | | | |
| 138 | N14 | VDDINT | | | | |
| 139 | N19 | /AWE | BF_N_WR | O | L act | EBIU write enable |
| 140 | N20 | /AOE | --- | O | L act | |
| 141 | P1 | PG1/SPISS/SPISEL1 | SFLASH_N_CS | O | L act | SPI flash memory chip select output (L: select) |
| 142 | P2 | PG2/SCK | BF_SPI_SCK | O | Clock | SPI clock |
| 143 | P7 | VDDMEM | | | | |
| 144 | P8 | VDDMEM | | | | |
| 145 | P9 | VDDMEM | | | | |
| 146 | P10 | VDDMEM | | | | |
| 147 | P11 | VDDMEM | | | | |
| 148 | P12 | VDDINT | | | | |
| 149 | P13 | VDDINT | | | | |
| 150 | P14 | VDDINT | | | | |
| 151 | P19 | ARDY | --- | I | H act | |
| 152 | P20 | SCKE | BF_SCKE | O | H act | SDRAM CKE |

| Pin No. | | Port Name | Function Name | ON | | Detail of Function |
|---|---|---|---|---|---|---|
| | | | | I/O | Logic | |
| 153 | R1 | TDI | BF_JTAG_TDI | I | Data | ICE Debug TDI |
| 154 | R2 | PG0/HWAIT | BF_JTAG_N_INT | I | Inter-rupt | |
| 155 | R19 | /SMS | BF_N_SMS | O | L act | SDRAM chip select |
| 156 | R20 | VDDOTP | | | | |
| 157 | T1 | TDO | BF_JTAG_TDO | O | Data | ICE Debug TDO |
| 158 | T2 | /EMU | BF_JTAG_N_EMU | O | Data | ICE Debug /EMU |
| 159 | T19 | /SRAS | BF_N_SRAS | O | L act | SDRAM /RAS |
| 160 | T20 | /SWE | BF_N_SWE | O | L act | SDRAM /WE |
| 161 | U1 | TRST | BF_JTAG_N_TRST | I | L act | ICE Debug /TRST |
| 162 | U2 | TMS | BF_JTAG_TMS | O | Data | ICE Debug TMS |
| 163 | U19 | SA10 | BF_SA10 | O | Data | SDRAM A10 |
| 164 | U20 | /SCAS | BF_N_SCAS | O | L act | SDRAM /CAS |
| 165 | V1 | DATA15 | BF_D[15] | B | Data | Data bus bit 15 |
| 166 | V2 | TCK | BF_JTAG_TCK | I | Clock | |
| 167 | V19 | /ABE0/SDQM0 | BF_SDQM0 | O | H act | SDRAM DQM0 |
| 168 | V20 | /ABE1/SDQM1 | BF_SDQM1 | O | H act | SDRAM DQM1 |
| 169 | W1 | DATA14 | BF_D[14] | B | Data | Data bus bit 14 |
| 170 | W2 | DATA13 | BF_D[13] | B | Data | Data bus bit 13 |
| 171 | W3 | DATA11 | BF_D[11] | B | Data | Data bus bit 11 |
| 172 | W4 | DATA9 | BF_D[9] | B | Data | Data bus bit 9 |
| 173 | W5 | DATA7 | BF_D[7] | B | Data | Data bus bit 7 |
| 174 | W6 | DATA5 | BF_D[5] | B | Data | Data bus bit 5 |
| 175 | W7 | DATA3 | BF_D[3] | B | Data | Data bus bit 3 |
| 176 | W8 | DATA1 | BF_D[1] | B | Data | Data bus bit 1 |
| 177 | W9 | BMODE3 | BMODE3 | | | Boot mode select 3 |
| 178 | W10 | BMODE1 | BMODE1 | | | Boot mode select 1 |
| 179 | W11 | ADDR18 | BF_A[18] | O | Data | Address bus bit 18 |
| 180 | W12 | ADDR16 | BF_A[16] | O | Data | Address bus bit 16 |
| 181 | W13 | ADDR14 | BF_A[14] | O | Data | Address bus bit 14 |
| 182 | W14 | ADDR12 | BF_A[12] | O | Data | Address bus bit 12 |
| 183 | W15 | ADDR10 | BF_A[10] | O | Data | Address bus bit 10 |
| 184 | W16 | ADDR8 | BF_A[8] | O | Data | Address bus bit 8 |
| 185 | W17 | ADDR6 | BF_A[6] | O | Data | Address bus bit 6 |
| 186 | W18 | ADDR4 | BF_A[4] | O | Data | Address bus bit 4 |
| 187 | W19 | ADDR2 | BF_A[2] | O | Data | Address bus bit 2 |
| 188 | W20 | ADDR1 | BF_A[1] | O | Data | Address bus bit 1 |
| 189 | Y1 | GND | | | | |
| 190 | Y2 | DATA12 | BF_D[12] | B | Data | Data bus bit 12 |
| 191 | Y3 | DATA10 | BF_D[10] | B | Data | Data bus bit 10 |
| 192 | Y4 | DATA8 | BF_D[8] | B | Data | Data bus bit 8 |
| 193 | Y5 | DATA6 | BF_D[6] | B | Data | Data bus bit 6 |
| 194 | Y6 | DATA4 | BF_D[4] | B | Data | Data bus bit 4 |
| 195 | Y7 | DATA2 | BF_D[2] | B | Data | Data bus bit 2 |
| 196 | Y8 | DATA0 | BF_D[0] | B | Data | Data bus bit 0 |
| 197 | Y9 | BMODE2 | GND | | | |
| 198 | Y10 | BMODE0 | +3.3V | | | |
| 199 | Y11 | ADDR19 | BF_A[19] | O | Data | Address bus bit 19 |
| 200 | Y12 | ADDR17 | --- | | | |
| 201 | Y13 | ADDR15 | --- | | | |
| 202 | Y14 | ADDR13 | BF_A[13] | O | Data | Address bus bit 13 |
| 203 | Y15 | ADDR11 | --- | | | |
| 204 | Y16 | ADDR9 | BF_A[9] | O | Data | Address bus bit 9 |
| 205 | Y17 | ADDR7 | BF_A[7] | O | Data | Address bus bit 7 |
| 206 | Y18 | ADDR5 | BF_A[5] | O | Data | Address bus bit 5 |
| 207 | Y19 | ADDR3 | BF_A[3] | O | Data | Address bus bit 3 |
| 208 | Y20 | GND | | | | |

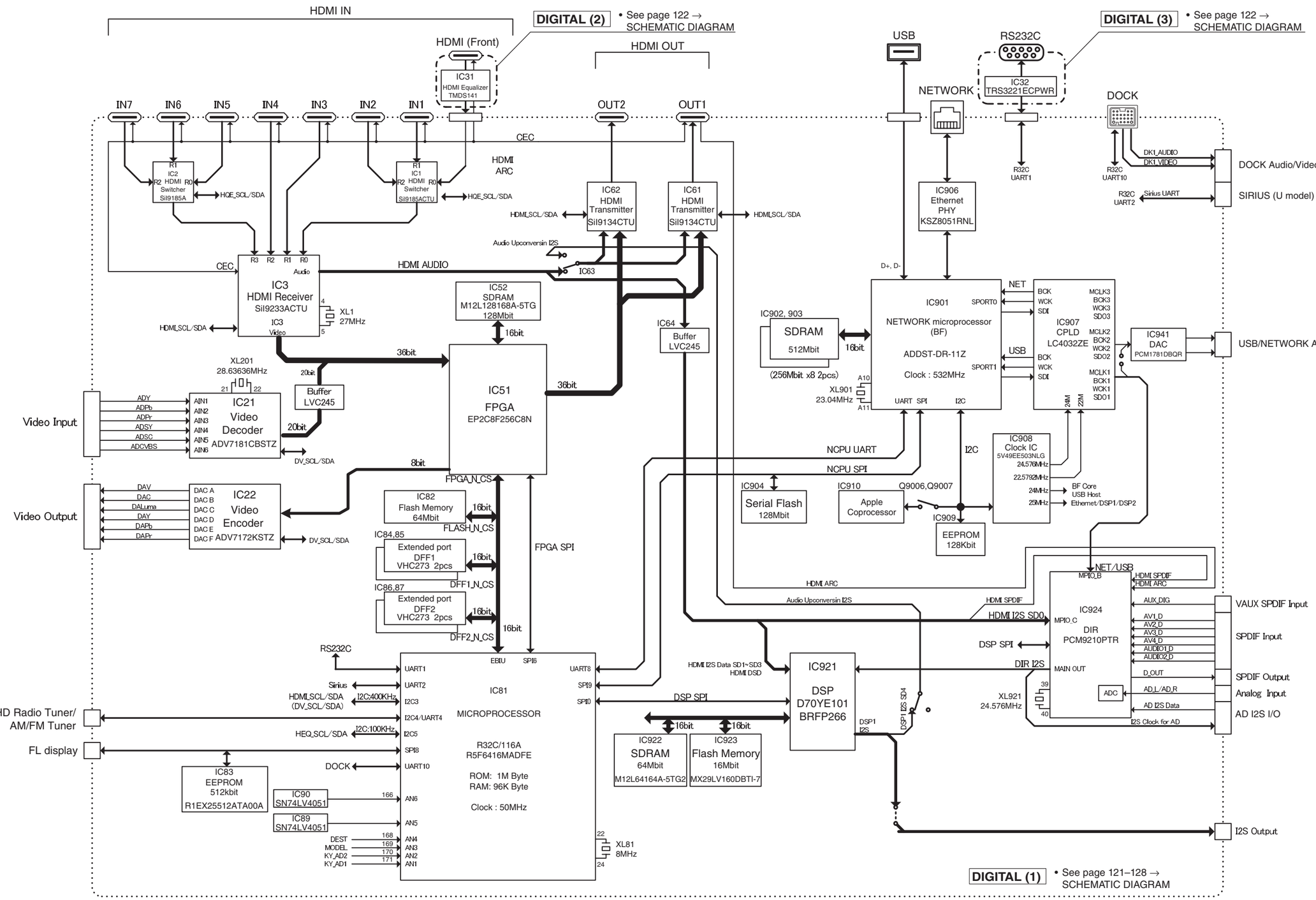
# ■ BLOCK DIAGRAMS

## AUDIO Section Block Diagram

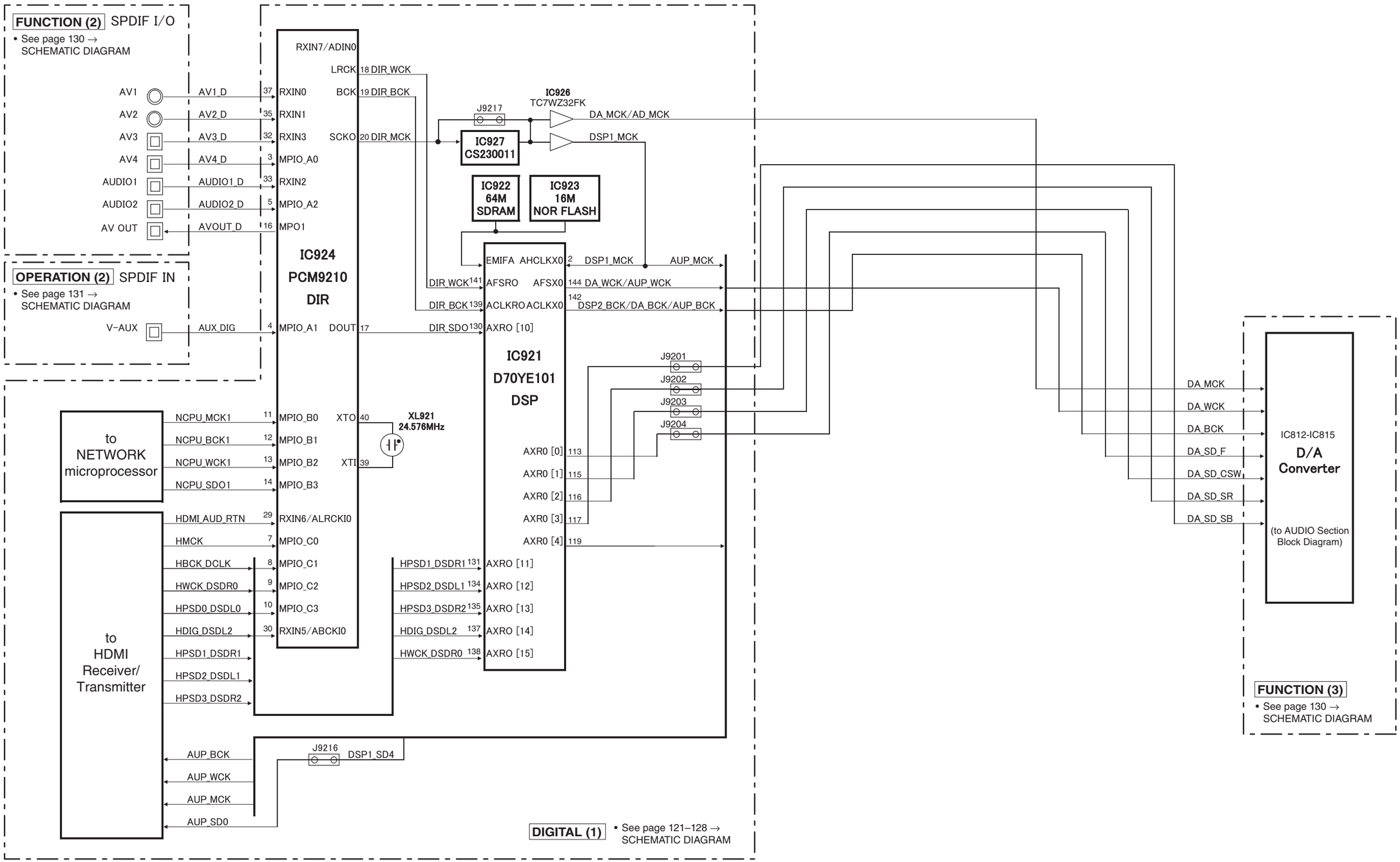
| | #1 | #2 |
|---|---|---|
| IN1 | MULTI CH | MUTE |
| IN2 | AUDIO4 | MUTE |
| IN3 | AUDIO3 | Z2(#1SUB1) |
| IN4 | AUDIO2 | |
| IN5 | AUDIO1 | MUTE |
| IN6 | AV4 | MUTE |
| IN7 | AV3 | DAF |
| IN8 | AV2 | YPAO Mic |
| INA/REC1 | AV-OUT | to ZoneADC |
| IN9 | AV1 | NET |
| INB/REC2 | PHONO | MUTE |
| IN10/REC4 | DOCK | Tuner |
| IN11/REC5 | Sirius | MUTE |
| IN12 | V-AUX | DAFP |
| IN13 | EXT(#2ADC) | DARP |
| IN14(def.) | MUTE | MUTE |
| REC3 | (OPEN) | (OPEN) |
| ADC(OUT) | to ADC | to #1IN13 |
| SUB1(OUT) | to #2IN3(Z2) | to #1FIN2(Z2) |

DIGITAL • See page 121–128 → SCHEMATIC DIAGRAM
FUNCTION (3) • See page 130 → SCHEMATIC DIAGRAM
MAIN • See page 132 → SCHEMATIC DIAGRAM
FUNCTION (2) • See page 130 → SCHEMATIC DIAGRAM
OPERATION (2) • See page 131 → SCHEMATIC DIAGRAM
VIDEO (1) • See page 134, 135 → SCHEMATIC DIAGRAM
OPERATION (2) • See page 131 → SCHEMATIC DIAGRAM
FUNCTION (1) • See page 129 → SCHEMATIC DIAGRAM

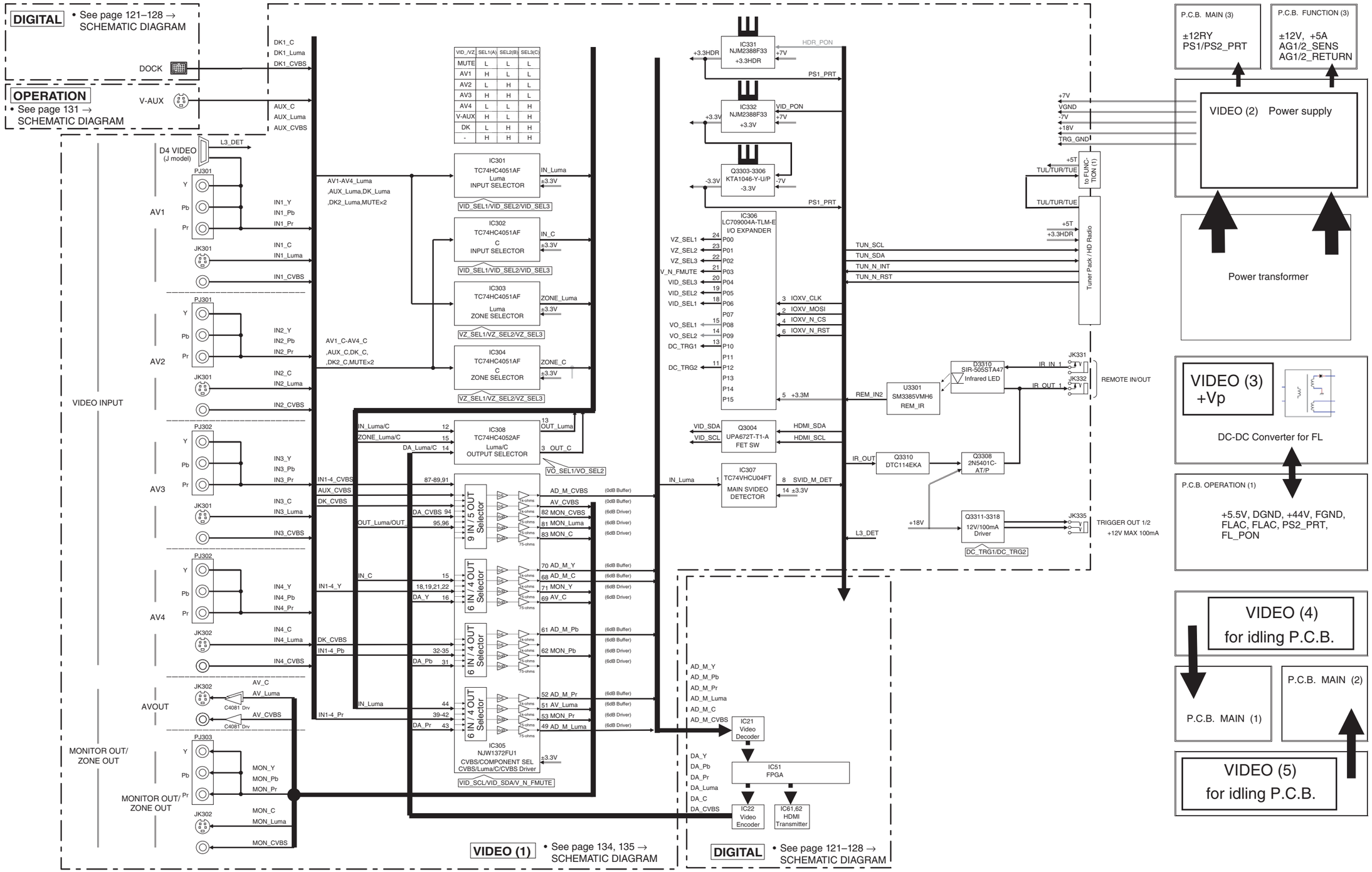
# DIGITAL P.C.B. Section Block Diagram



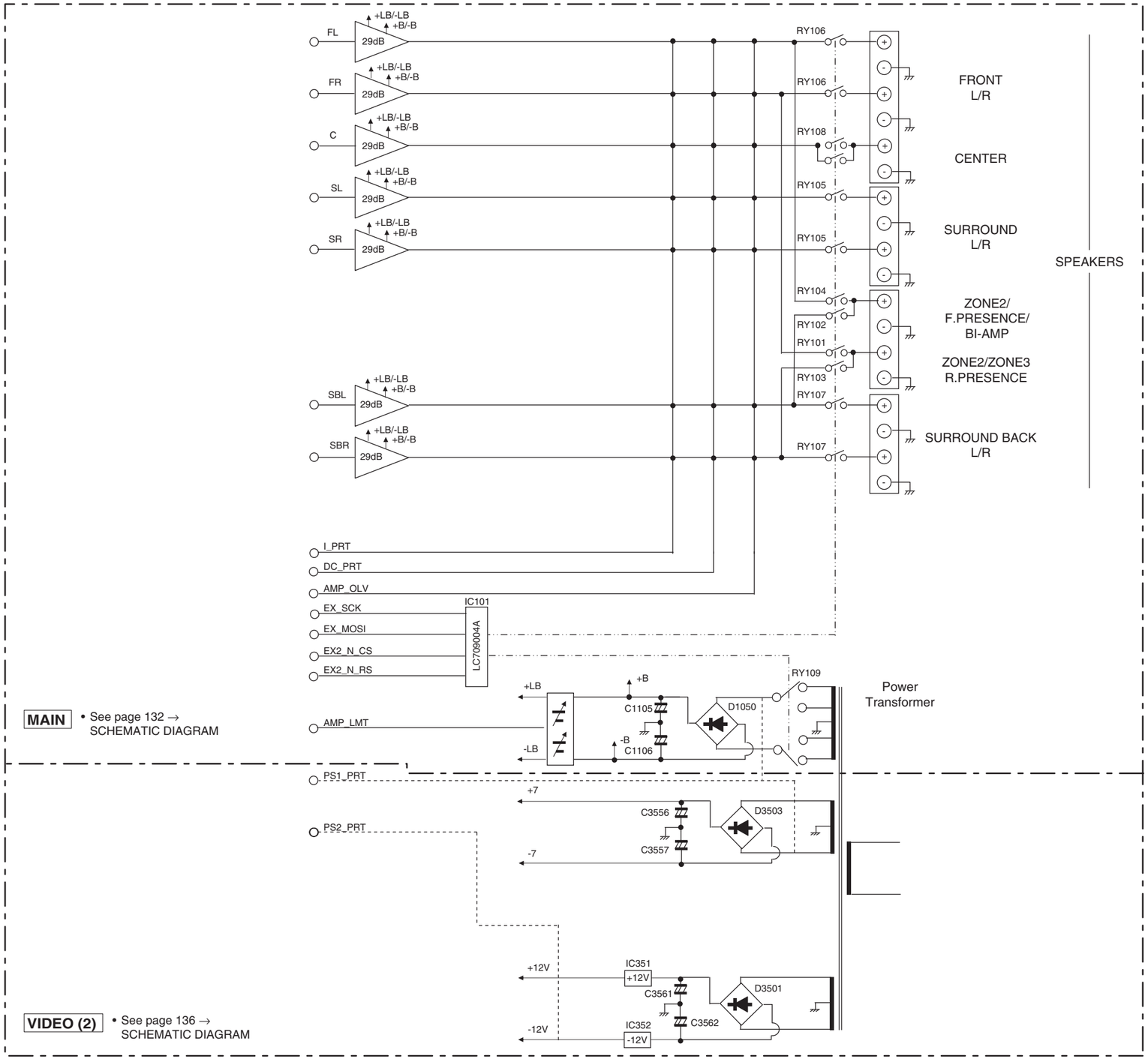
# DIGITAL AUDIO Section Block Diagram



# VIDEO Section Block Diagram

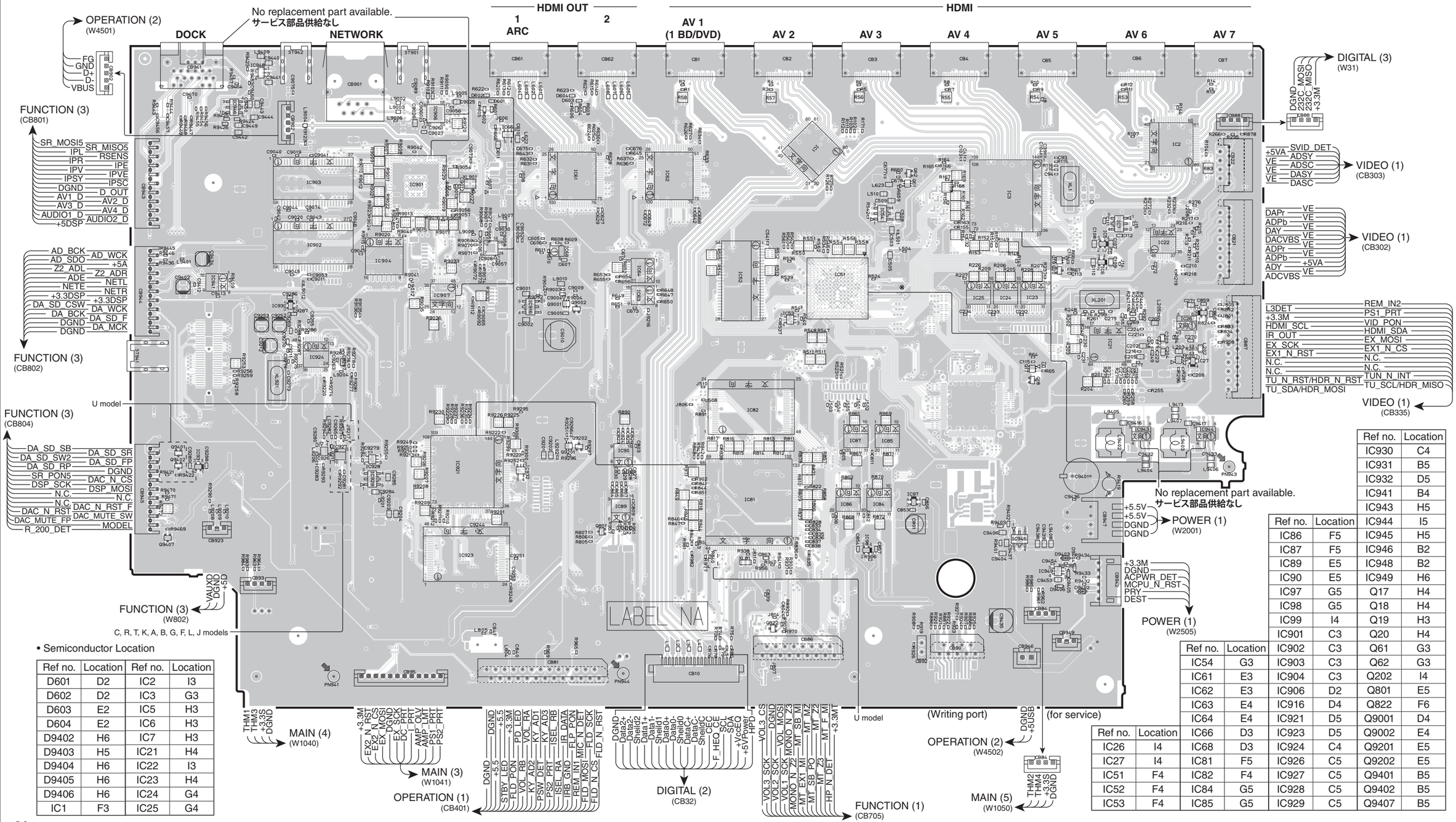


## Power Amplifier and Power Supply Sections Block Diagram



# ■ PRINTED CIRCUIT BOARDS

## DIGITAL (1) (Side A)




• Semiconductor Location

| Ref no. | Location | Ref no. | Location |
|---|---|---|---|
| D601 | D2 | IC2 | I3 |
| D602 | D2 | IC3 | G3 |
| D603 | E2 | IC5 | H3 |
| D604 | E2 | IC6 | H3 |
| D9402 | H6 | IC7 | H3 |
| D9403 | H5 | IC21 | H4 |
| D9404 | H6 | IC22 | I3 |
| D9405 | H6 | IC23 | H4 |
| D9406 | H6 | IC24 | G4 |
| IC1 | F3 | IC25 | G4 |

| Ref no. | Location |
|---|---|
| IC930 | C4 |
| IC931 | B5 |
| IC932 | D5 |
| IC941 | B4 |
| IC943 | H5 |
| IC944 | I5 |
| IC945 | H5 |
| IC946 | B2 |
| IC948 | B2 |
| IC949 | H6 |
| Q17 | H4 |
| Q18 | H4 |
| Q19 | H3 |
| Q20 | H4 |
| Q61 | G3 |
| Q62 | G3 |
| Q202 | I4 |
| Q801 | E5 |
| Q822 | F6 |
| Q9001 | D4 |
| Q9002 | E4 |
| Q9201 | E5 |
| Q9202 | E5 |
| Q9401 | B5 |
| Q9402 | B5 |
| Q9407 | B5 |

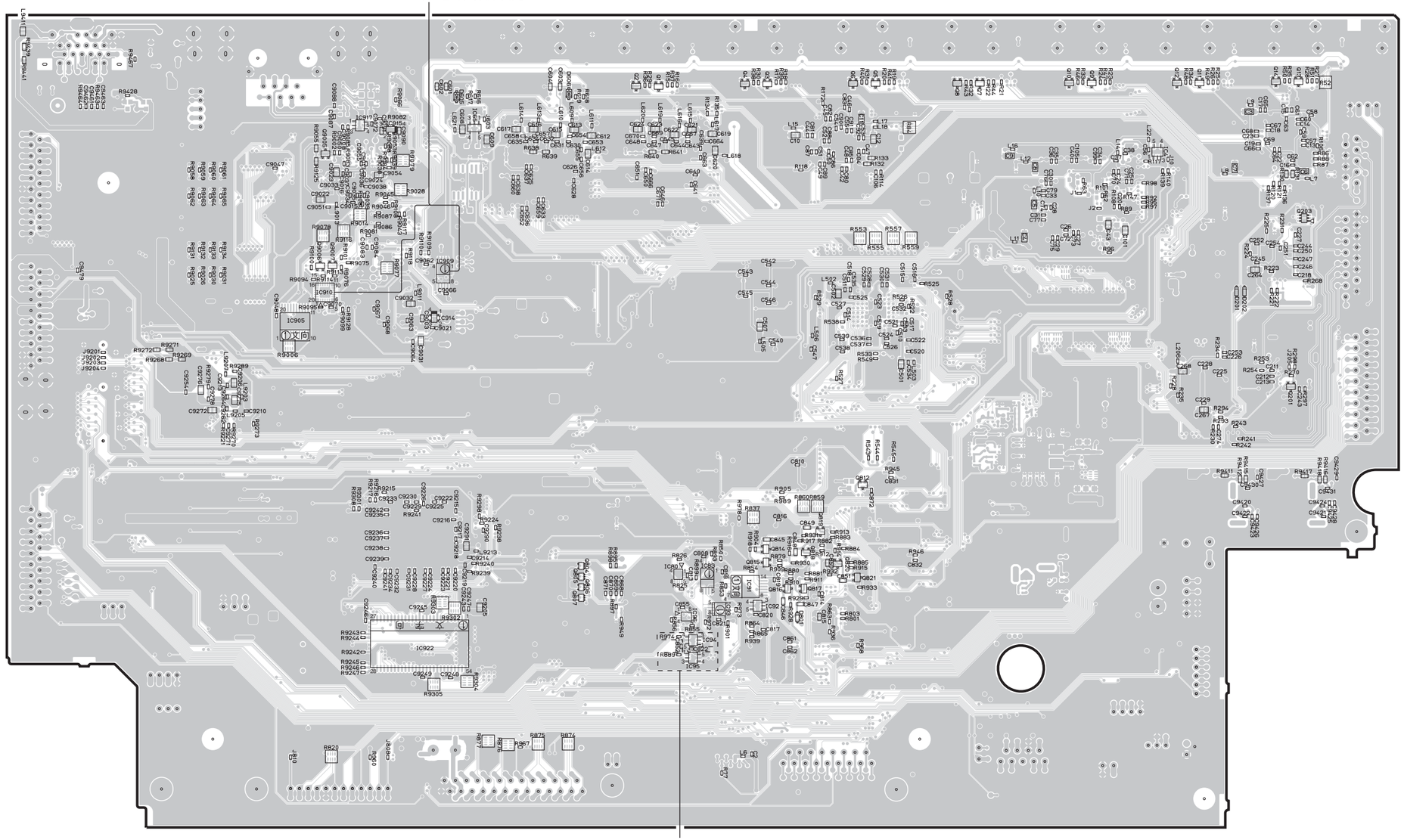
| Ref no. | Location |
|---|---|
| IC86 | F5 |
| IC87 | F5 |
| IC89 | E5 |
| IC90 | E5 |
| IC97 | G5 |
| IC98 | G5 |
| IC99 | I4 |
| IC901 | C3 |
| IC902 | C3 |
| IC903 | C3 |
| IC904 | C3 |
| IC906 | D2 |
| IC916 | D4 |
| IC921 | D5 |
| IC923 | D5 |
| IC924 | C4 |
| IC926 | C5 |
| IC927 | C5 |
| IC928 | C5 |
| IC929 | C5 |

| Ref no. | Location |
|---|---|
| IC54 | G3 |
| IC61 | E3 |
| IC62 | E3 |
| IC63 | E4 |
| IC64 | E4 |
| IC66 | D3 |
| IC68 | D3 |
| IC81 | F5 |
| IC82 | F4 |
| IC84 | G5 |
| IC85 | G5 |

| Ref no. | Location |
|---|---|
| IC26 | I4 |
| IC27 | I4 |
| IC51 | F4 |
| IC52 | F4 |
| IC53 | F4 |

## DIGITAL (1) (Side B)

No replacement part available.
サービス部品供給なし

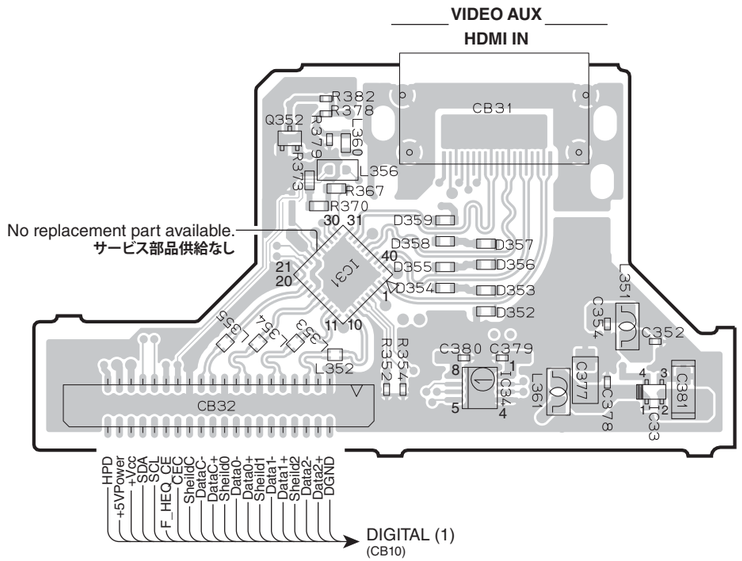


U model

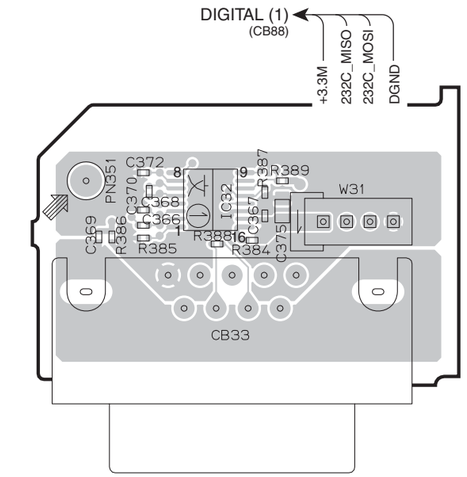
• Semiconductor Location

| Ref no. | Location |
|---|---|
| D201 | H4 |
| D202 | H4 |
| D605 | C2 |
| D606 | D2 |
| D801 | E5 |
| IC4 | G3 |
| IC65 | D3 |
| IC80 | E5 |
| IC83 | E5 |
| IC91 | E5 |
| IC92 | E5 |
| IC93 | E5 |
| IC94 | E5 |
| IC95 | E6 |
| IC96 | E5 |
| IC905 | C4 |
| IC909 | C3 |
| IC910 | C4 |
| IC914 | C4 |
| IC915 | C3 |
| IC917 | C3 |
| IC922 | C5 |
| Q1 | E2 |
| Q2 | D2 |
| Q3 | E2 |
| Q4 | E2 |
| Q5 | F2 |
| Q6 | F2 |
| Q7 | F2 |
| Q8 | F2 |
| Q9 | G2 |
| Q10 | G2 |
| Q11 | H2 |
| Q12 | G2 |
| Q13 | H2 |
| Q14 | H2 |
| Q201 | H4 |
| Q203 | H3 |
| Q804 | D5 |
| Q805 | D5 |
| Q806 | D5 |
| Q807 | D5 |
| Q812 | F5 |
| Q814 | E5 |
| Q815 | E5 |
| Q816 | E5 |
| Q817 | E5 |
| Q818 | E5 |
| Q819 | E5 |
| Q820 | F5 |
| Q821 | F5 |
| Q9005 | C3 |
| Q9006 | C3 |
| Q9007 | C3 |

## DIGITAL (2) (Side A)



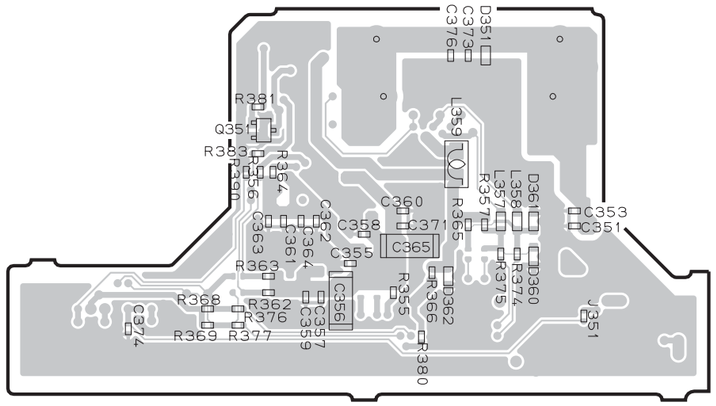

## DIGITAL (3) (Side A)




• Semiconductor Location

| Ref no. | Location |
|---|---|
| D352 | D4 |
| D353 | D4 |
| D354 | D4 |
| D355 | D4 |
| D356 | D4 |
| D357 | D4 |
| D358 | D4 |
| D359 | D4 |
| IC31 | D4 |
| IC32 | H3 |
| IC33 | D4 |
| IC34 | D4 |
| Q352 | C3 |

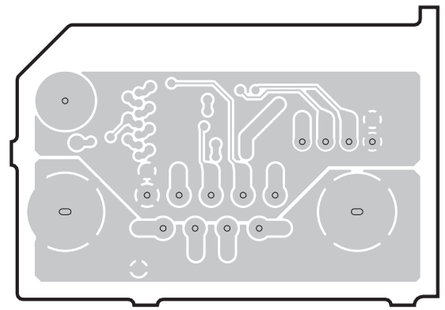
## DIGITAL (2) (Side B)



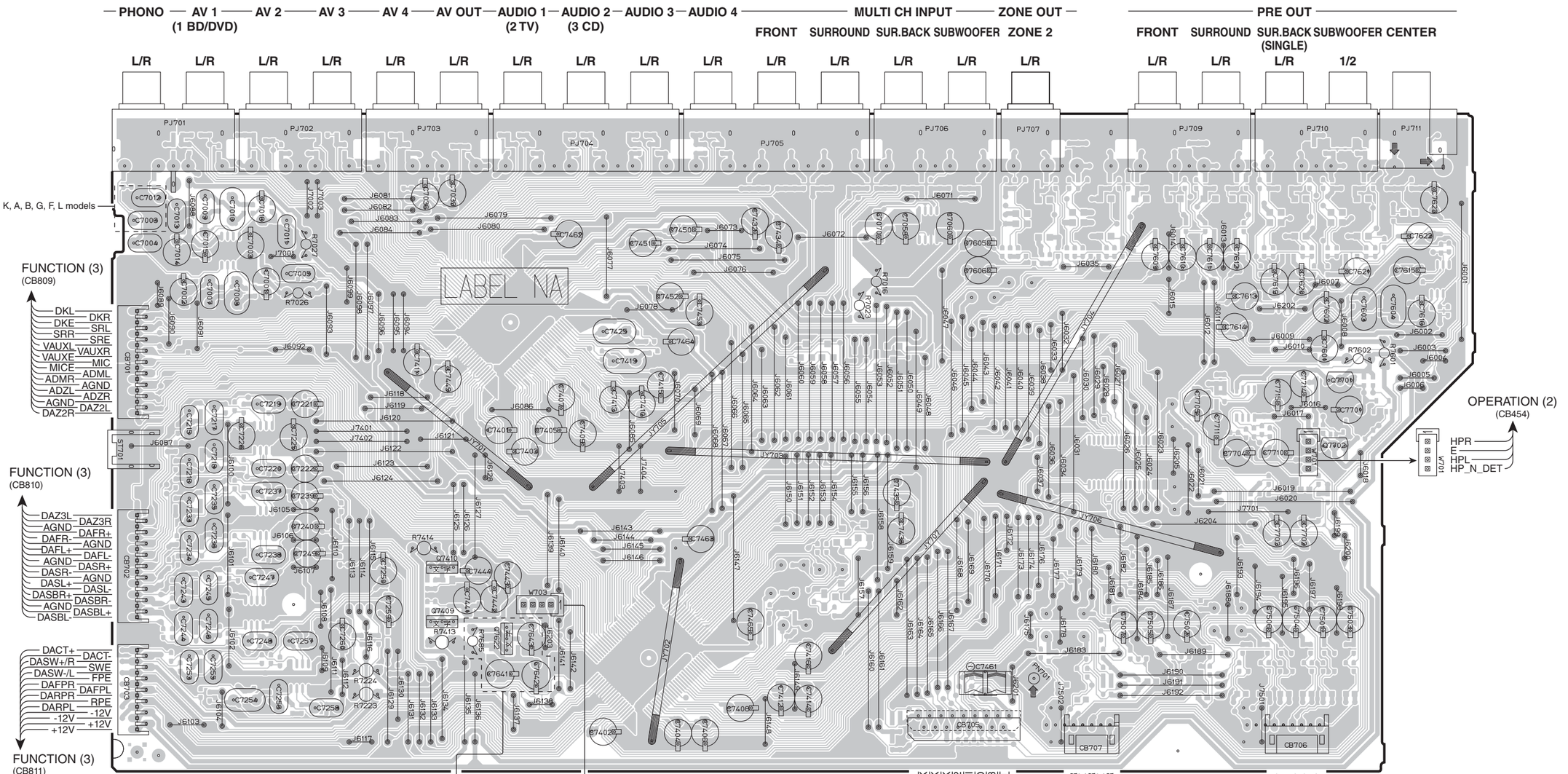

• Semiconductor Location

| Ref no. | Location |
|---|---|
| D351 | D3 |
| D360 | D4 |
| D361 | D4 |
| D362 | D4 |
| Q351 | C3 |

## DIGITAL (3) (Side B)



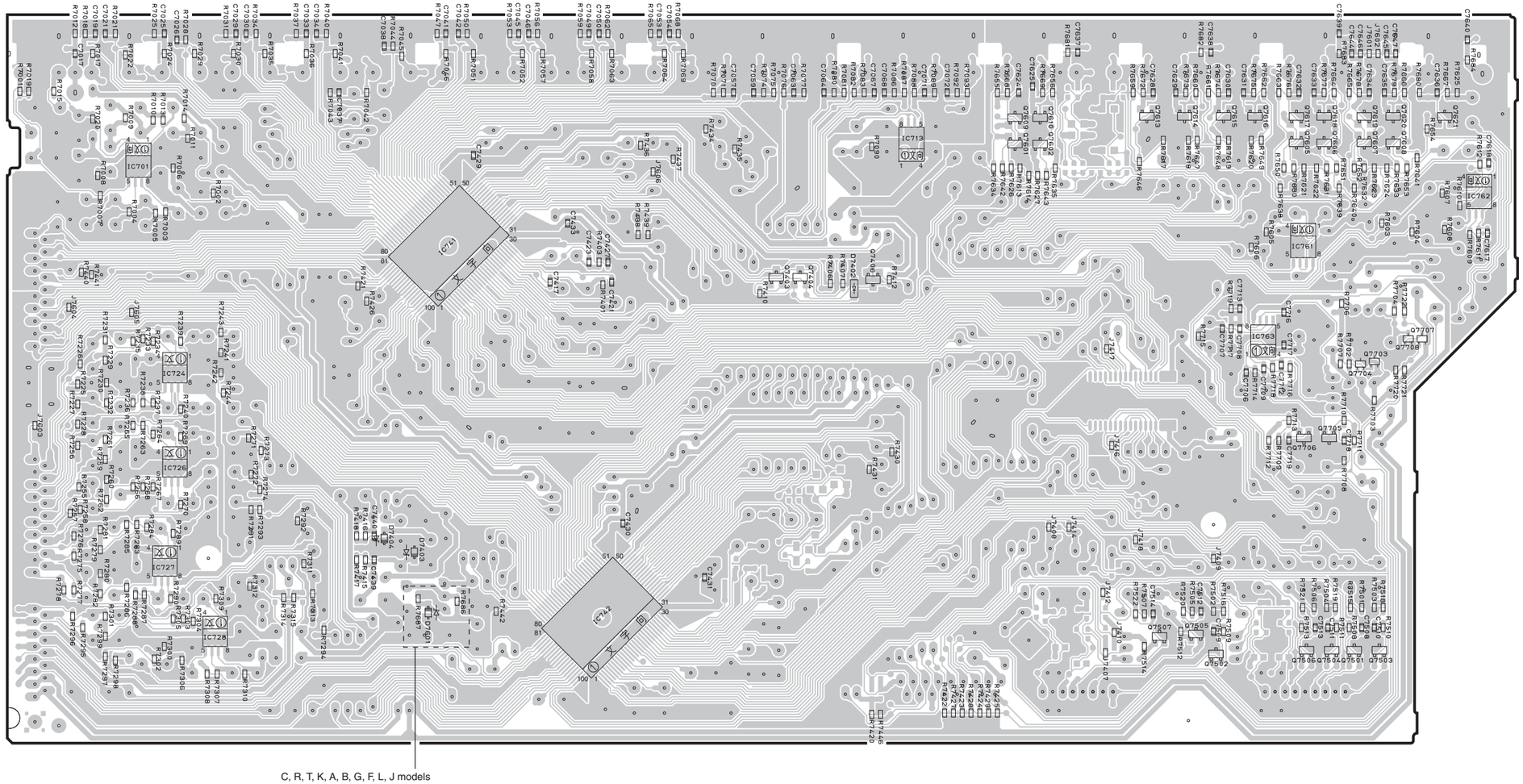
# FUNCTION (1) (Side A)




• Semiconductor Location

| Ref no. | Location |
|---|---|
| Q7409 | D5 |
| Q7410 | D5 |
| Q7622 | D5 |
| Q7701 | I4 |
| Q7702 | I4 |

## FUNCTION (1) (Side B)

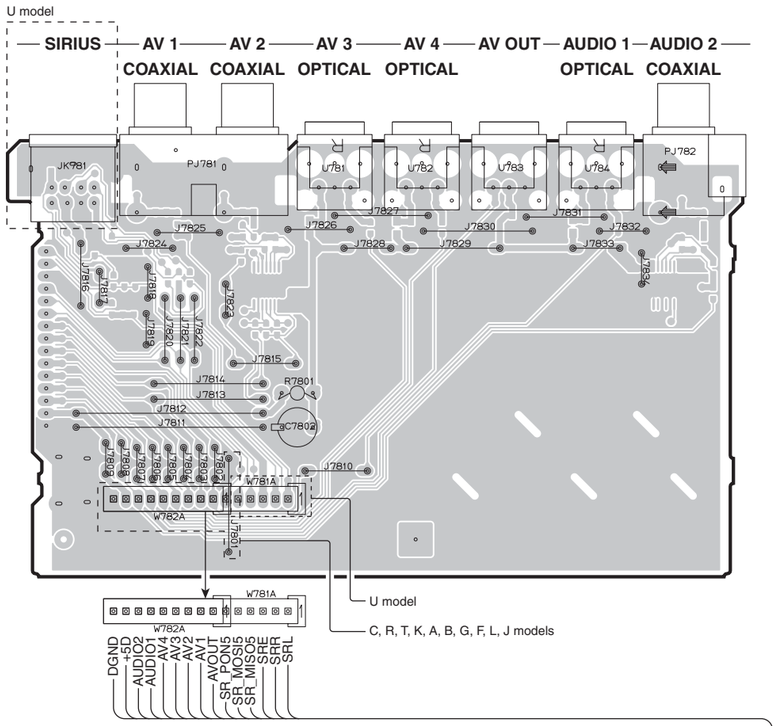


C, R, T, K, A, B, G, F, L, J models

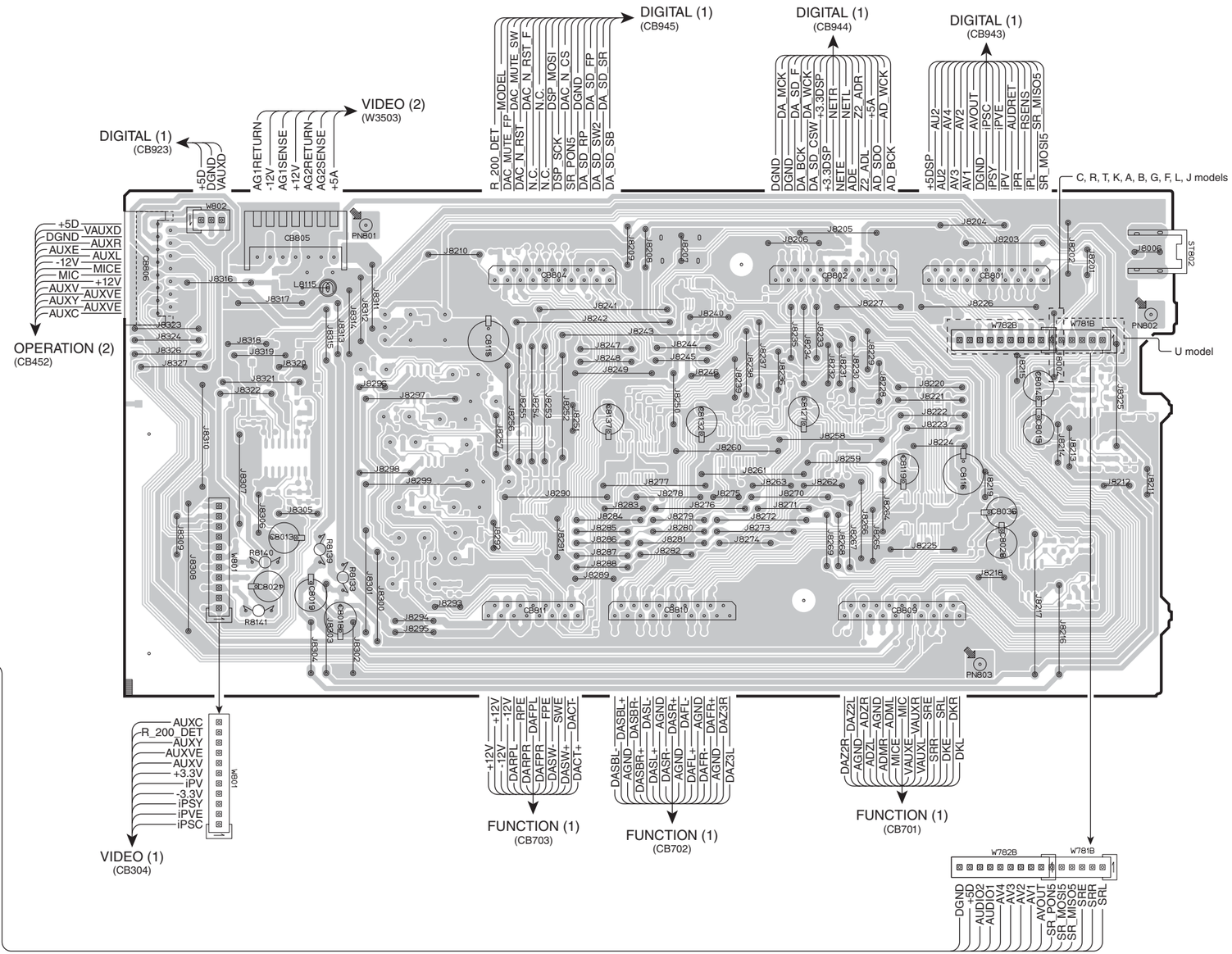
• Semiconductor Location

| Ref no. | Location |
|---|---|
| D7402 | F4 |
| D7403 | C5 |
| D7404 | C5 |
| D7601 | D6 |
| IC701 | B3 |
| IC713 | F3 |
| IC724 | B4 |
| IC726 | B5 |
| IC727 | B5 |
| IC728 | B6 |
| IC741 | D4 |
| IC742 | D6 |
| IC761 | H4 |
| IC762 | I3 |
| IC763 | H4 |
| Q7403 | E4 |
| Q7404 | E4 |
| Q7406 | F4 |
| Q7501 | H6 |
| Q7502 | H6 |
| Q7503 | H6 |
| Q7504 | H6 |
| Q7505 | G6 |
| Q7506 | H6 |
| Q7507 | G6 |
| Q7601 | G3 |
| Q7602 | G3 |
| Q7605 | H3 |
| Q7606 | H3 |
| Q7607 | H3 |
| Q7608 | I3 |
| Q7609 | G3 |
| Q7610 | G3 |
| Q7613 | G3 |
| Q7614 | G3 |
| Q7615 | H3 |
| Q7616 | H3 |
| Q7617 | H3 |
| Q7618 | H3 |
| Q7619 | H3 |
| Q7620 | I3 |
| Q7621 | I3 |
| Q7703 | H4 |
| Q7704 | H4 |
| Q7705 | H5 |
| Q7706 | H5 |
| Q7707 | I4 |
| Q7708 | I4 |

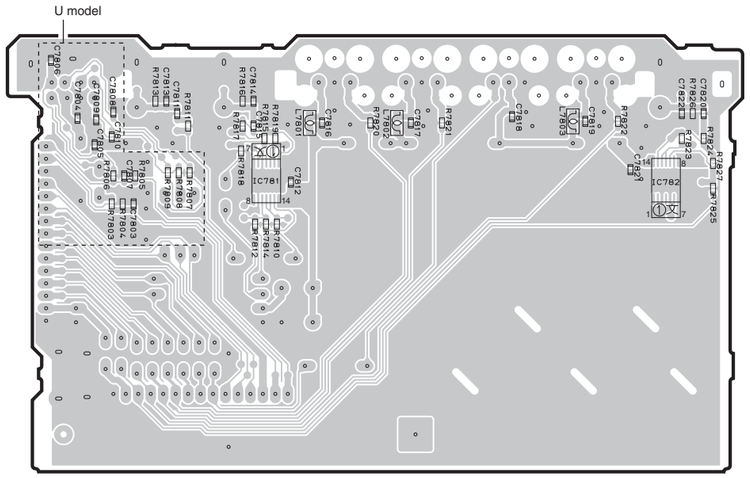
## FUNCTION (2) (Side A)



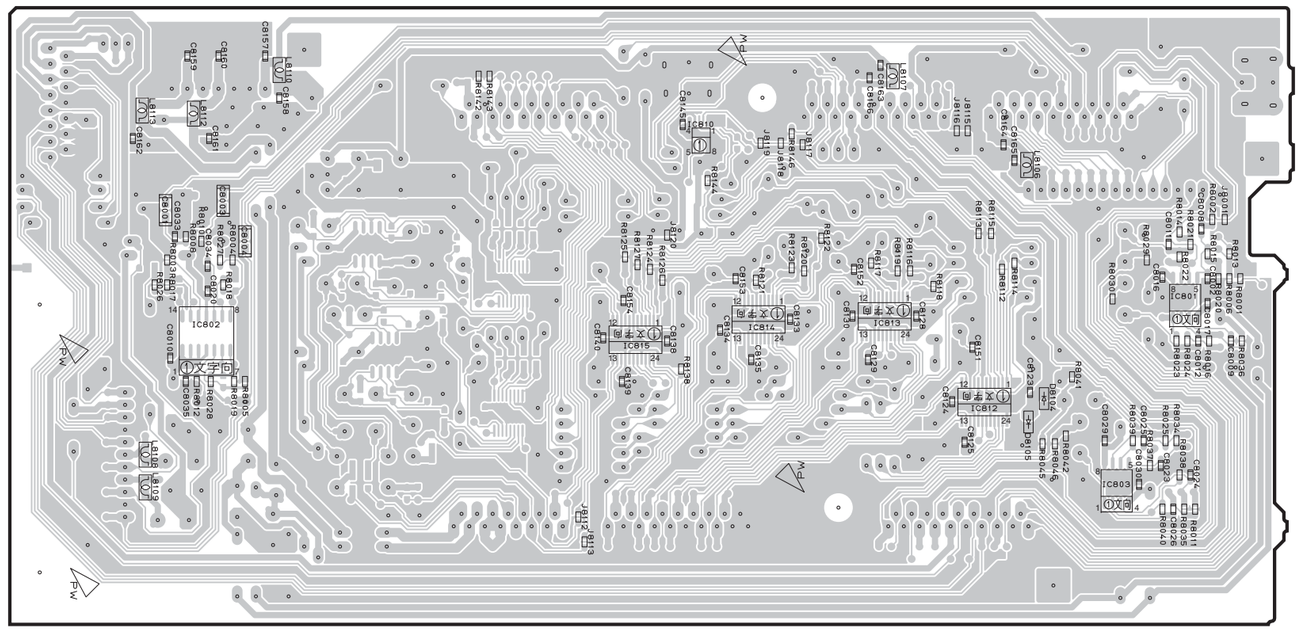

## FUNCTION (3) (Side A)


DIGITAL (1)
(CB923)
+5D
DGND
VAUXD
VIDEO (2)
(W3503)
AG1RETURN
-12V
AG1SENSE
+12V
AG2RETURN
AG2SENSE
+5A
DIGITAL (1)
(CB945)
R_200_DET
MODEL
DAC_MUTE_FP
DAC_MUTE_SW
DAC_N_RST
DAC_N_RST_F
N.C.
N.C.
DSP_SCK
DSP_MOSI
SR_PON5
DAC_N_CS
DA_SD_RP
DGND
DA_SD_SW2
DA_SD_FP
DA_SD_SR
DA_SD_SB
DIGITAL (1)
(CB944)
DGND
DGND
DA_BCK
DA_SD_CSW
+3.3DSP
DA_MCK
DA_SD_F
DA_WCK
+3.3DSP
NETR
NETL
Z2_ADR
+5A
AD_SDO
AD_BCK
AD_WCK
DIGITAL (1)
(CB943)
+5DSP
AU2
AV4
AV2
AVOUT
iPSC
iPVE
AUDRET
RSENS
SR_MISO5
AU2
AV4
AV3
AV2
AV1
DGND
iPSY
iPV
iPR
iPL
SR_MOSI5
C, R, T, K, A, B, G, F, L, J models
+5D
DGND
AUXE
-12V
MIC
AUXV
AUXY
AUXC
VAUXD
AUXR
AUXL
MICE
+12V
AUXVE
AUXVE
OPERATION (2)
(CB452)
W802
CB896
CB805
PN801
L8115
J8316
J8317
J8323
J8324
J8325
J8327
J8318
J8319
J8320
J8321
J8322
J8310
J8307
J8305
CB813
R8140
R8141
CB802
CB810
R8139
R8142
J8308
W801
J8294
J8295
J8293
J8304
J8303
J8302
J8301
J8312
J8313
J8314
J8315
J8210
J8241
J8242
J8243
J8247
J8246
J8249
J8244
J8245
J8240
J8297
J8298
J8299
J8290
J8283
J8284
J8285
J8286
J8287
J8288
J8289
J8277
J8278
J8279
J8280
J8281
J8282
J8275
J8276
J8272
J8273
J8274
J8270
J8271
J8263
J8262
J8259
J8258
J8260
J8261
J8255
J8254
J8253
J8252
J8251
J8250
J8239
J8236
J8235
J8234
J8233
J8232
J8231
J8230
J8229
J8228
J8227
J8226
J8225
J8224
J8223
J8222
J8221
J8220
J8219
J8218
J8217
J8216
J8215
J8214
J8213
J8212
J8211
J8210
J8209
J8208
J8207
J8206
J8205
J8204
J8203
J8202
J8201
J8317
CB804
CB803
CB802
CB801
CB806
CB807
CB808
CB809
CB810
CB811
CB812
CB813
CB814
CB815
CB816
CB817
CB818
CB819
CB820
CB821
CB822
CB823
CB824
CB825
CB826
CB827
CB828
CB829
CB830
CB831
CB832
CB833
CB834
CB835
CB836
CB837
CB838
CB839
CB840
CB841
CB842
CB843
CB844
CB845

## FUNCTION (2) (Side B)



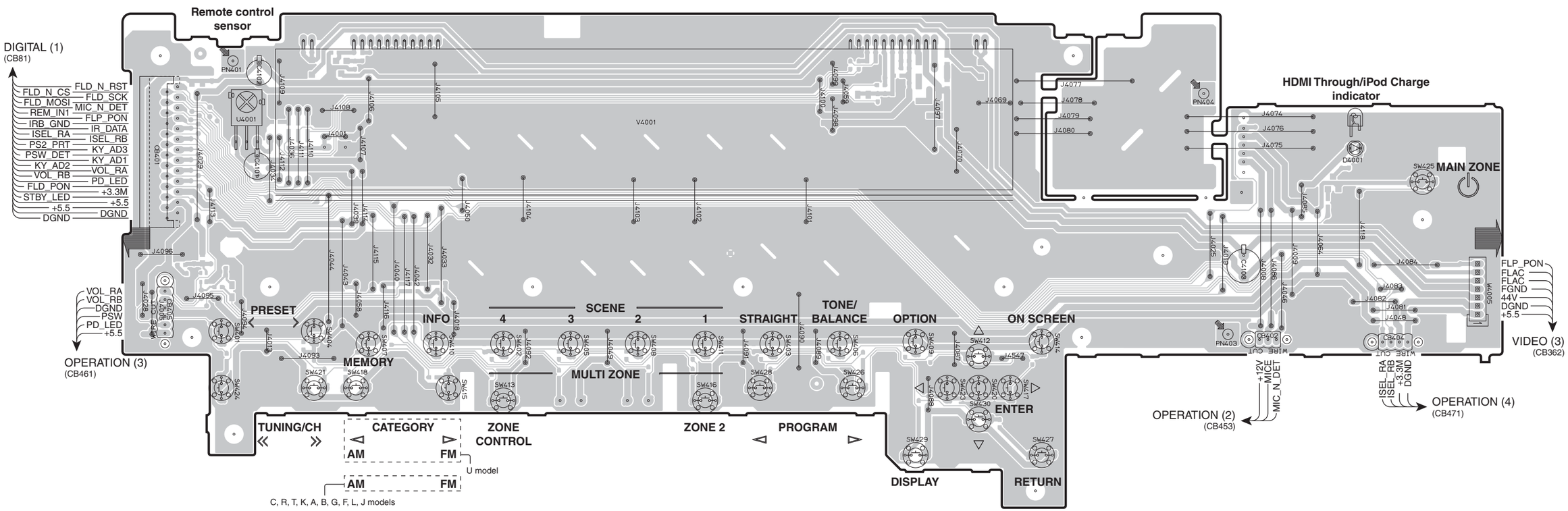

## FUNCTION (3) (Side B)



• Semiconductor Location

| Ref no. | Location |
|---|---|
| D8104 | J4 |
| D8105 | J4 |
| IC781 | C3 |
| IC782 | D3 |
| IC801 | J4 |
| IC802 | F4 |
| IC803 | J4 |
| IC810 | H3 |
| IC812 | I4 |
| IC813 | I4 |
| IC814 | H4 |
| IC815 | H4 |

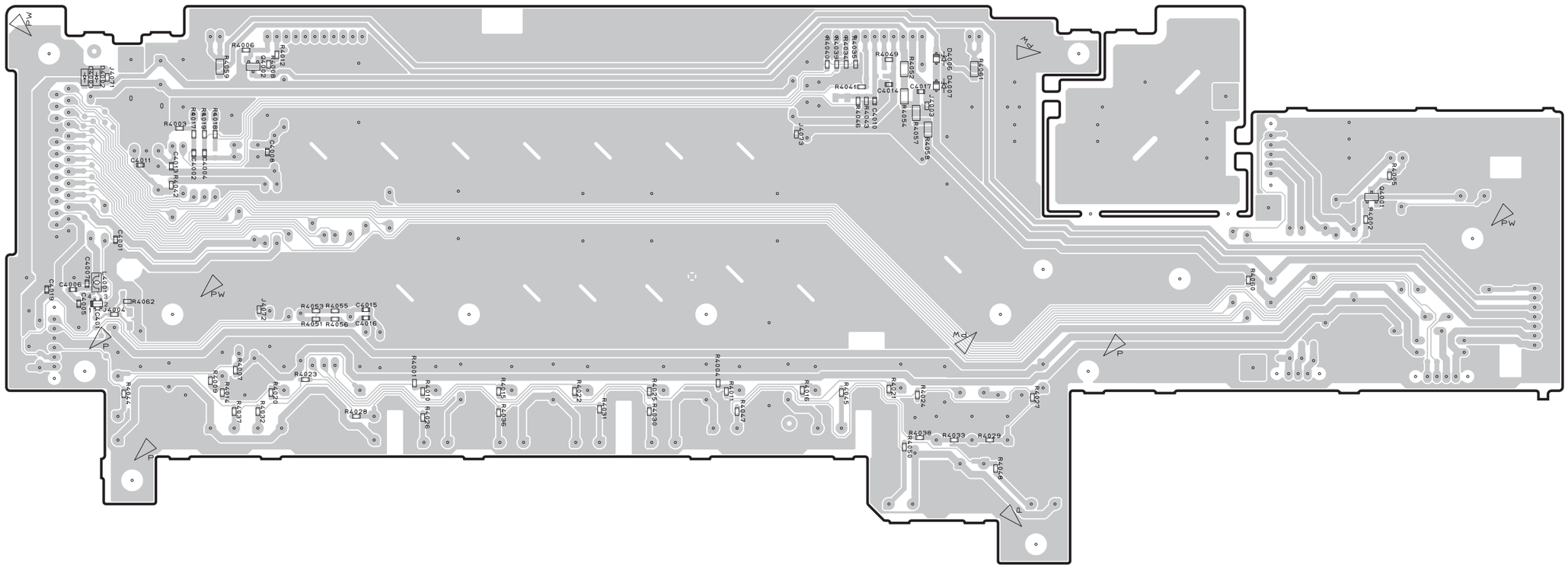
## OPERATION (1) (Side A)




• Semiconductor Location

| Ref no. | Location |
|---|---|
| D4001 | I3 |

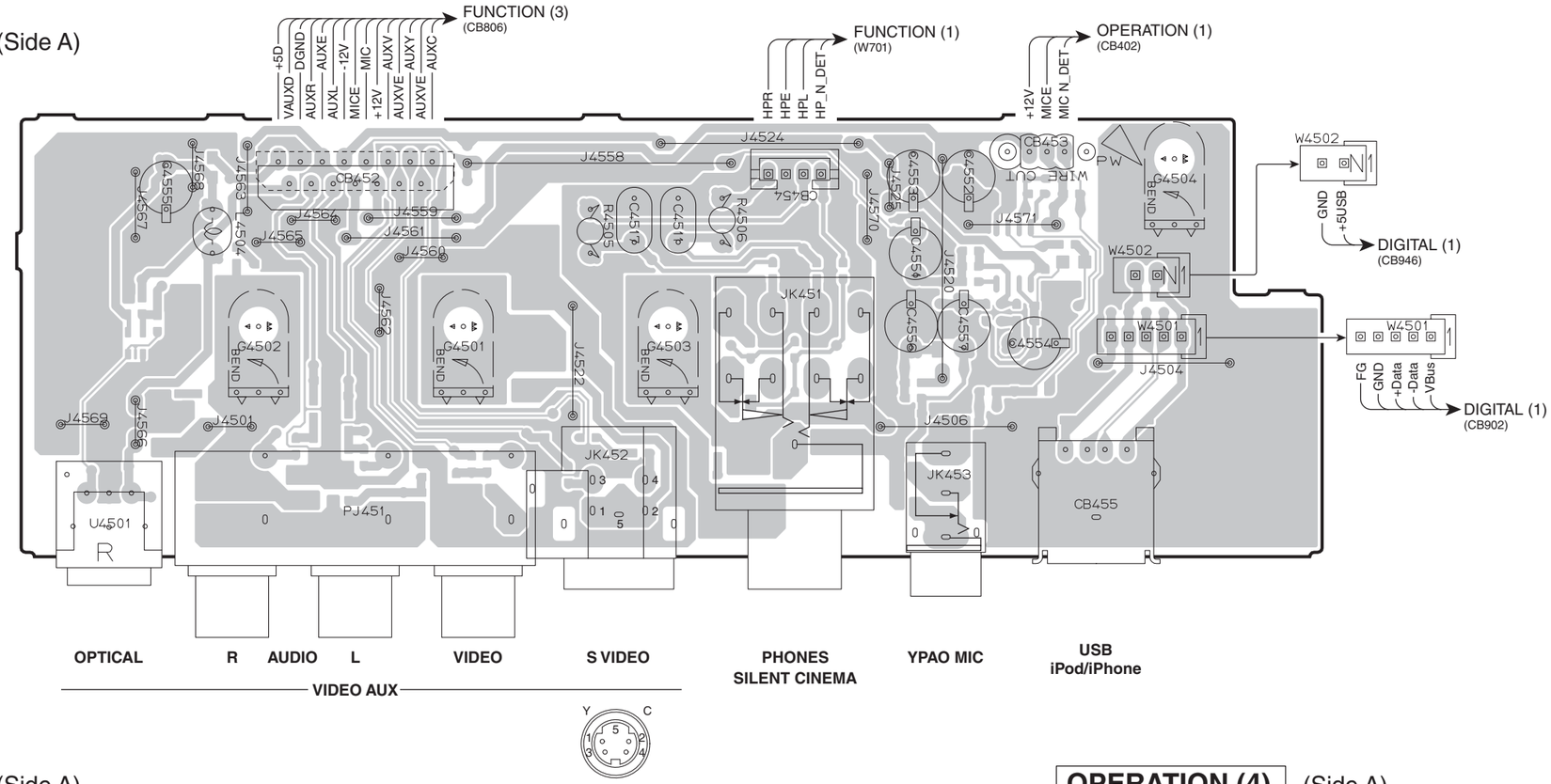
## OPERATION (1) (Side B)



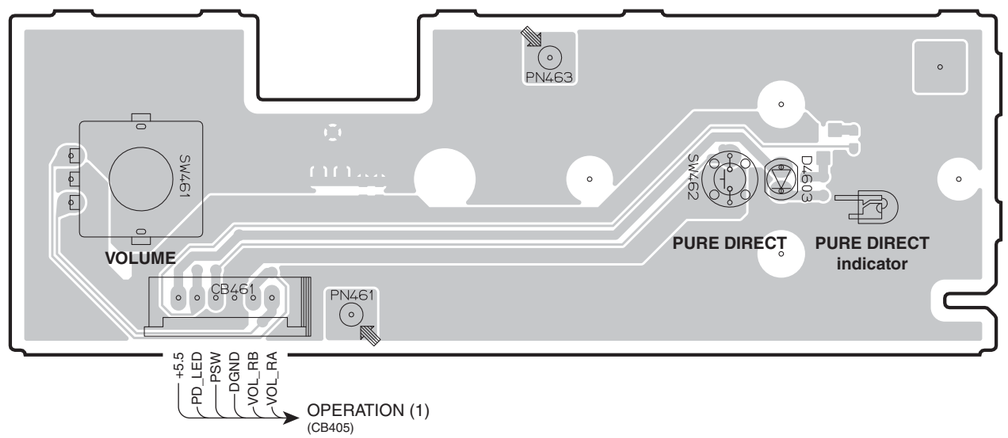

• Semiconductor Location

| Ref no. | Location |
|---|---|
| D4002 | B3 |
| D4003 | A3 |
| D4006 | F3 |
| D4007 | F3 |
| IC401 | B4 |
| Q4001 | H3 |
| Q4002 | B3 |

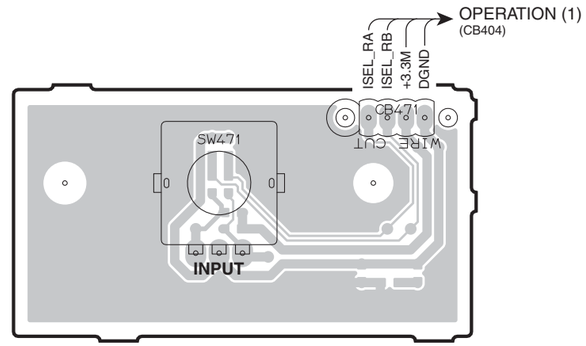
## OPERATION (2) (Side A)




## OPERATION (3) (Side A)



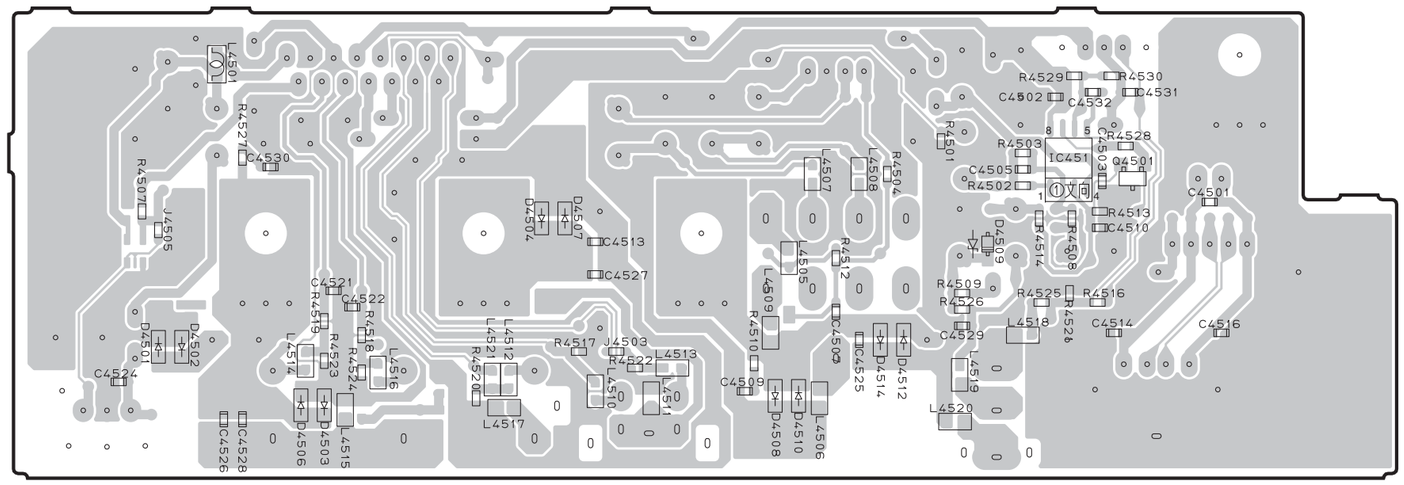

## OPERATION (4) (Side A)




• Semiconductor Location

| Ref no. | Location |
|---|---|
| D4603 | E6 |

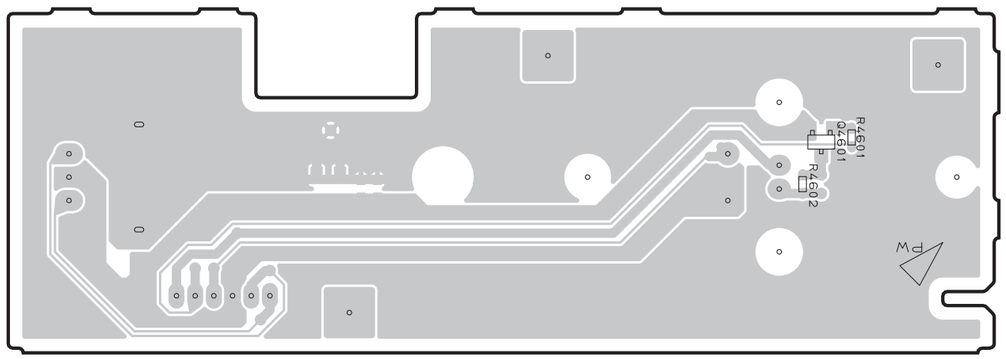
## OPERATION (2) (Side B)



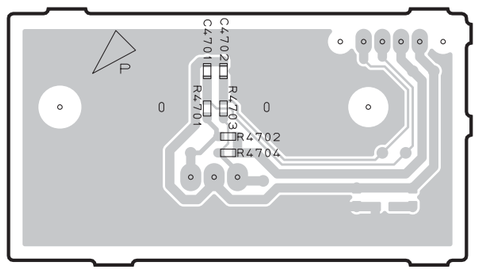

• Semiconductor Location

| Ref no. | Location |
|---|---|
| D4501 | C3 |
| D4502 | C3 |
| D4503 | D3 |
| D4504 | D3 |
| D4506 | C3 |
| D4507 | E3 |
| D4508 | E3 |
| D4509 | F3 |
| D4510 | E3 |
| D4512 | F3 |
| D4514 | F3 |
| IC451 | G2 |
| Q4501 | G2 |
| Q4601 | E6 |

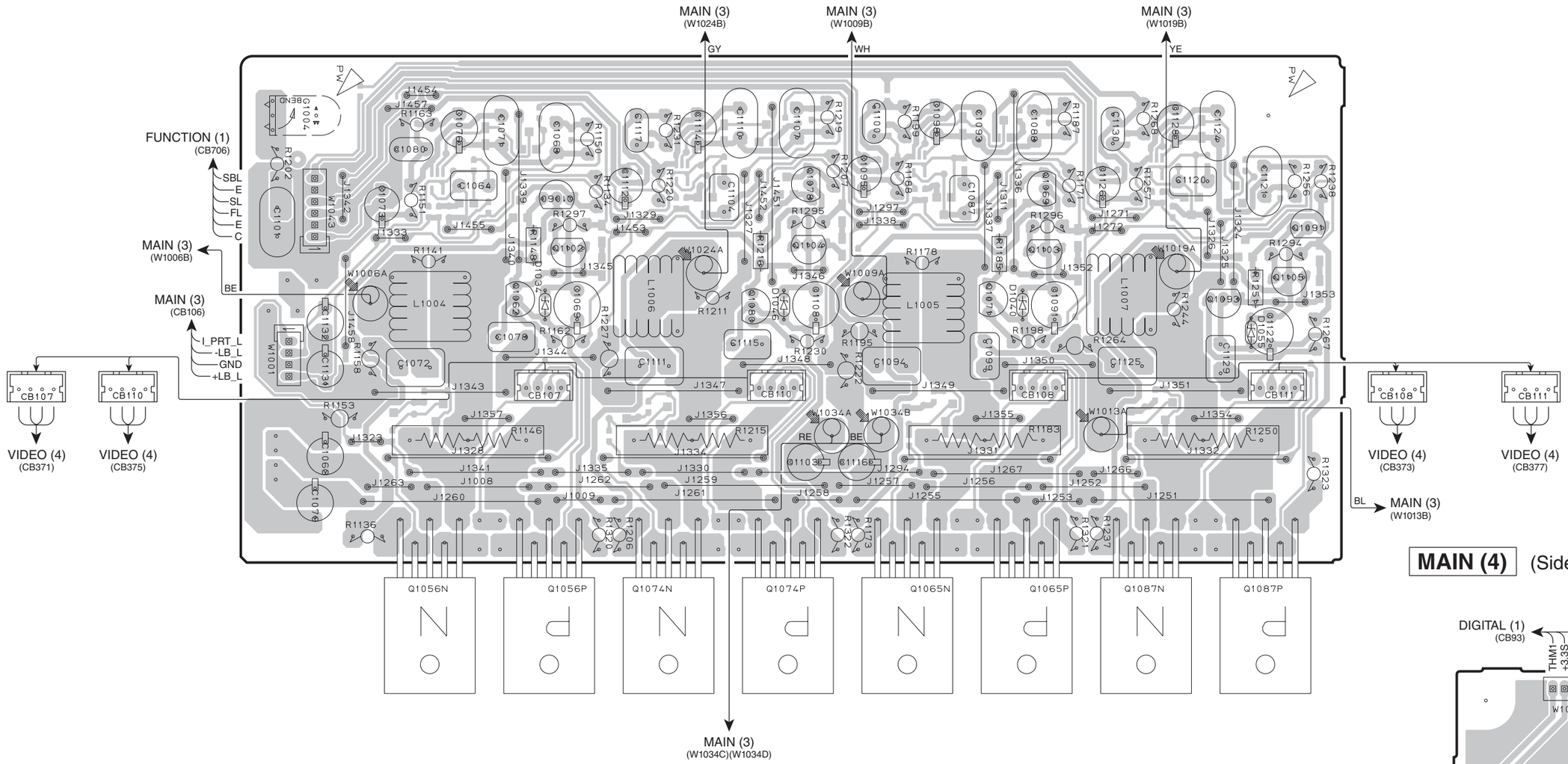
## OPERATION (3) (Side B)




## OPERATION (4) (Side B)



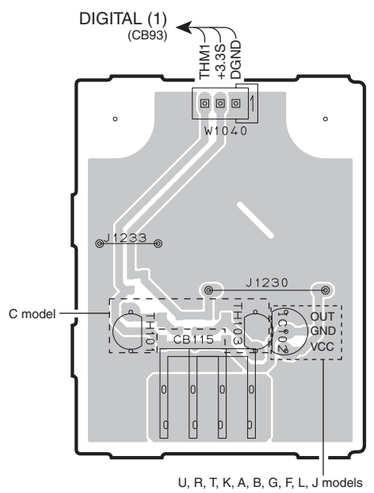
## MAIN (1) (Side A)



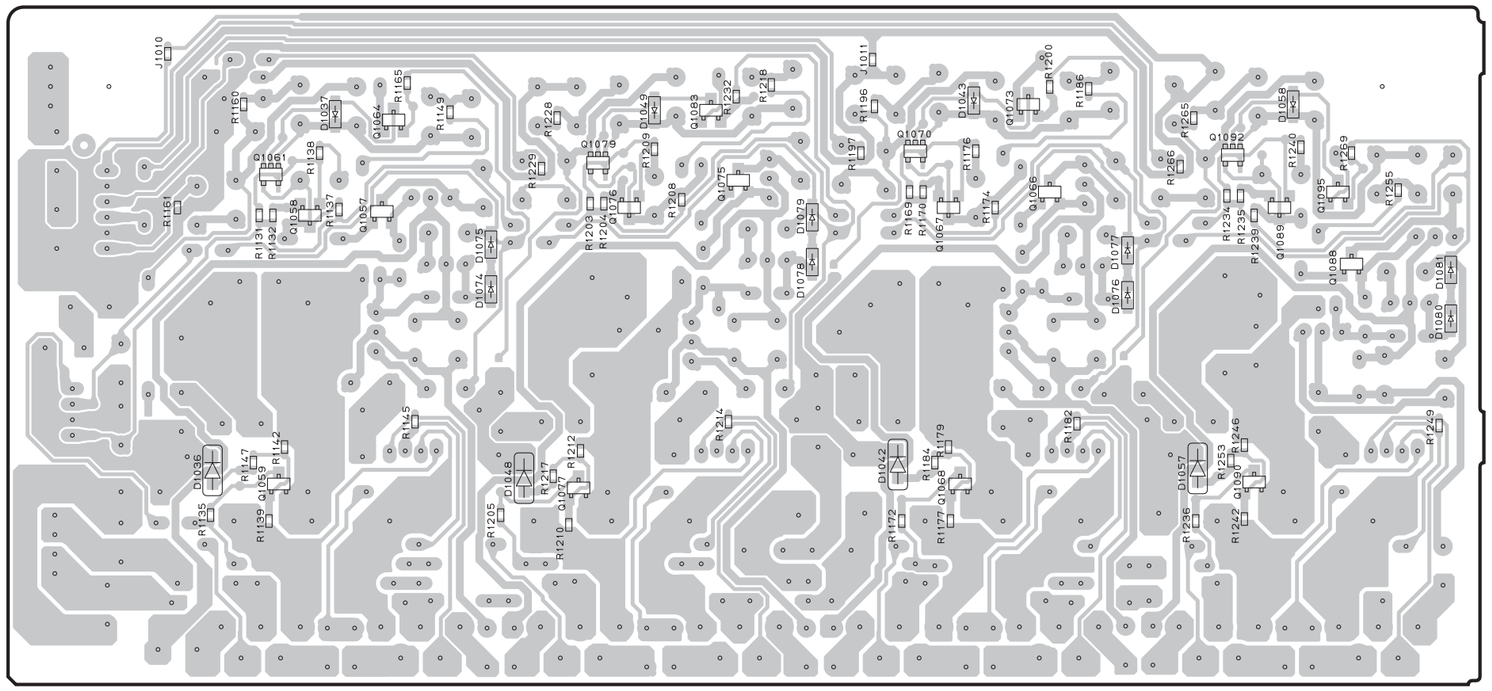

• Semiconductor Location

| Ref no. | Location | Ref no. | Location | Ref no. | Location | Ref no. | Location |
|---|---|---|---|---|---|---|---|
| D1034 | D3 | Q1060 | D3 | Q1074P | E5 | Q1102 | D3 |
| D1040 | G3 | Q1062 | D3 | Q1078 | E3 | Q1103 | G3 |
| D1046 | E3 | Q1065N | F5 | Q1080 | E3 | Q1104 | E3 |
| D1055 | H4 | Q1065P | G5 | Q1087N | G5 | Q1105 | H3 |
| IC102 | J6 | Q1069 | G3 | Q1087P | H5 | | |
| Q1056N | C5 | Q1071 | F3 | Q1091 | H3 | | |
| Q1056P | D5 | Q1074N | E5 | Q1093 | H3 | | |

## MAIN (4) (Side A)



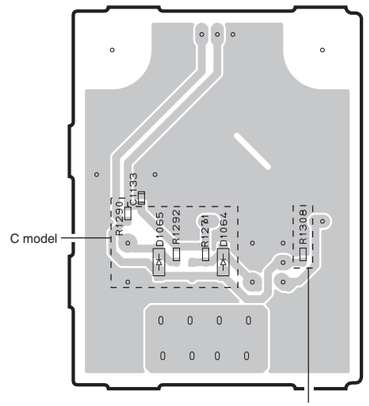
**MAIN (1)** (Side B)



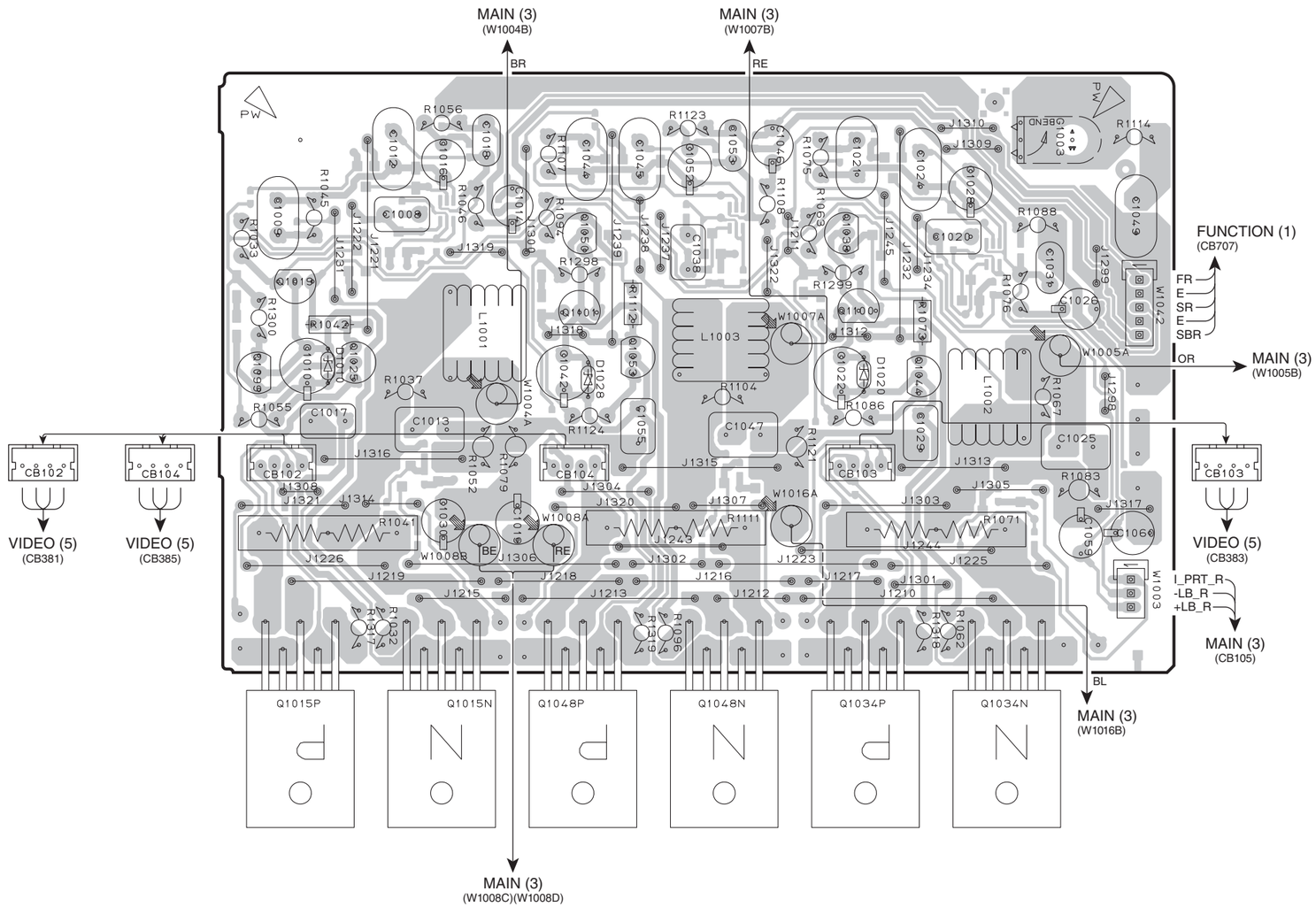

• Semiconductor Location

| Ref no. | Location | Ref no. | Location | Ref no. | Location |
|---|---|---|---|---|---|
| D1036 | C4 | D1077 | F3 | Q1070 | E3 |
| D1037 | C2 | D1078 | E3 | Q1073 | F2 |
| D1042 | E4 | D1079 | E3 | Q1075 | E3 |
| D1043 | F2 | D1080 | H3 | Q1076 | D3 |
| D1048 | D4 | D1081 | H3 | Q1077 | D4 |
| D1049 | D2 | Q1057 | C3 | Q1079 | D3 |
| D1057 | G4 | Q1058 | C3 | Q1083 | E2 |
| D1058 | G2 | Q1059 | C4 | Q1088 | G3 |
| D1064 | I6 | Q1061 | C3 | Q1089 | G3 |
| D1065 | I6 | Q1064 | C2 | Q1090 | G4 |
| D1074 | D3 | Q1066 | F3 | Q1092 | G3 |
| D1075 | D3 | Q1067 | F3 | Q1095 | G3 |
| D1076 | F3 | Q1068 | F4 | | |

**MAIN (4)** (Side B)



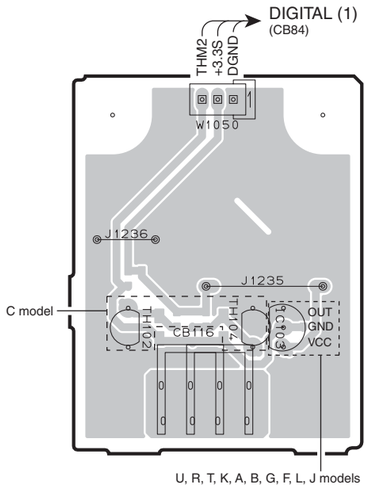
## MAIN (2) (Side A)



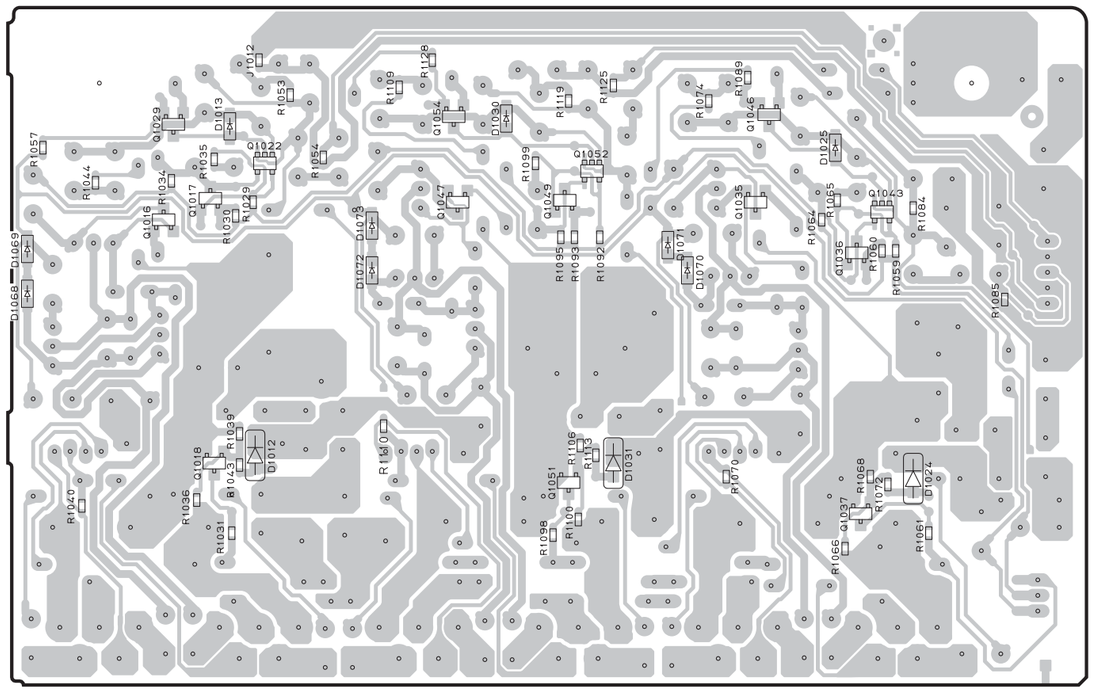

• Semiconductor Location

| Ref no. | Location |
|---|---|
| D1010 | C3 |
| D1020 | E3 |
| D1028 | D4 |
| IC103 | I6 |
| Q1019 | C3 |
| Q1025 | C3 |
| Q1038 | E3 |
| Q1044 | F4 |
| Q1050 | D3 |
| Q1053 | D3 |
| Q1099 | C3 |
| Q1100 | E3 |
| Q1101 | D3 |

## MAIN (5) (Side A)



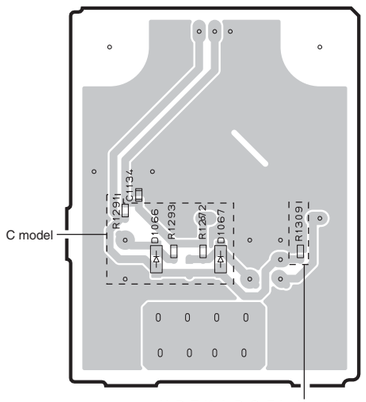
## MAIN (2) (Side B)




• Semiconductor Location

| Ref no. | Location | Ref no. | Location | Ref no. | Location |
|---|---|---|---|---|---|
| D1012 | C4 | D1072 | C3 | Q1036 | E3 |
| D1013 | C3 | D1073 | C3 | Q1037 | E4 |
| D1024 | F4 | Q1015N | C5 | Q1043 | E3 |
| D1025 | E3 | Q1015P | C5 | Q1046 | E3 |
| D1030 | D3 | Q1016 | B3 | Q1047 | D3 |
| D1031 | D4 | Q1017 | C3 | Q1048N | E5 |
| D1066 | H6 | Q1018 | C4 | Q1048P | D5 |
| D1067 | H6 | Q1022 | C3 | Q1049 | D3 |
| D1068 | B3 | Q1029 | B3 | Q1051 | D4 |
| D1069 | B3 | Q1035 | E3 | Q1052 | D3 |
| D1070 | E3 | Q1034N | F5 | Q1054 | D3 |
| D1071 | E3 | Q1034P | E5 | | |

## MAIN (5) (Side B)



**Notes)**

**Safety measures**

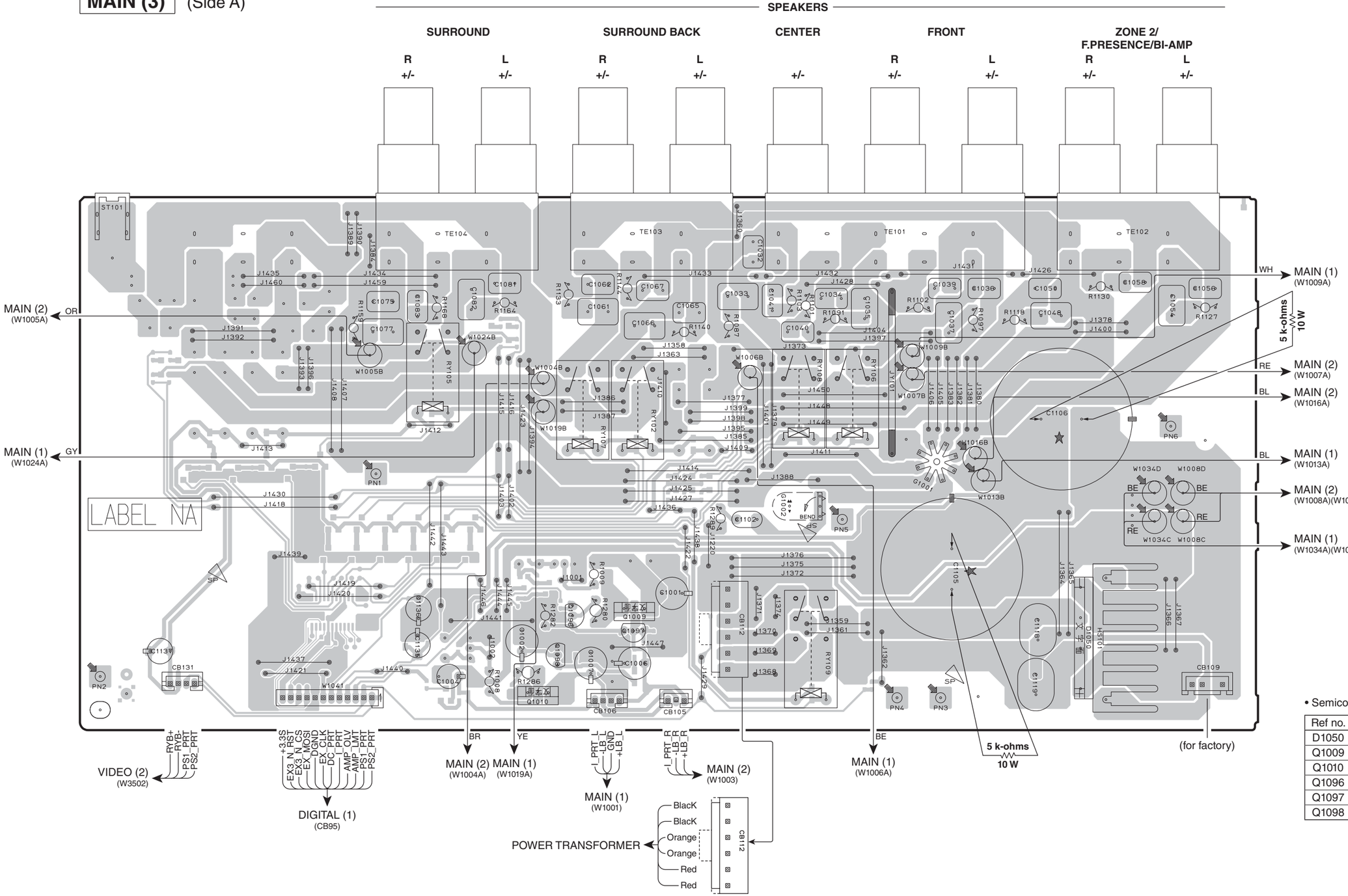
- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each.
  C1105, C1106 on MAIN (3) P.C.B.

**注意）**

**安全対策**

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。修理作業前に放電用抵抗（5 k Ω /10 W）を下記の各コンデンサの端子間に接続して放電してください。放電所用時間は各々約 30 秒間です。
  MAIN（3）P.C.B. の C1105、C1106

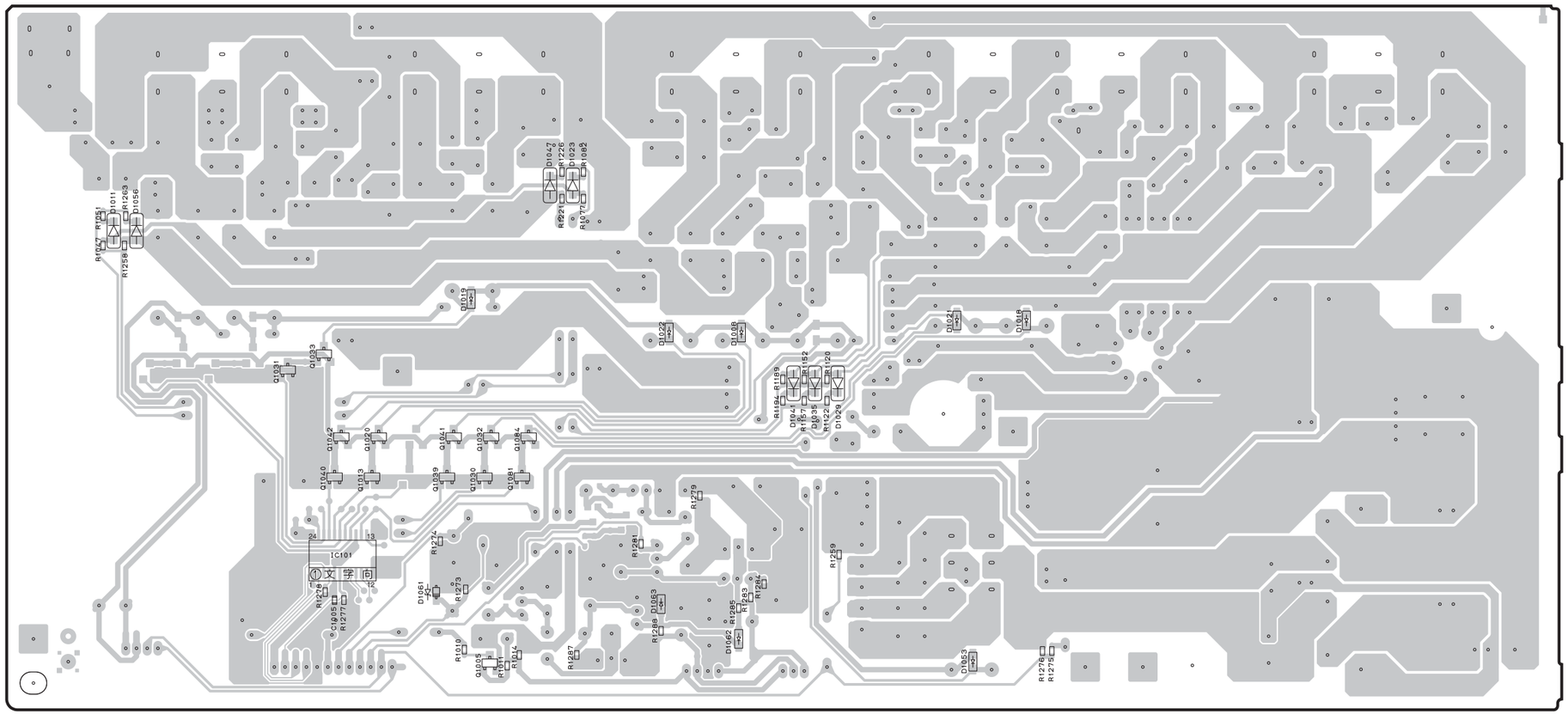
## MAIN (3) (Side A)




- Semiconductor Location

| Ref no. | Location |
|---|---|
| D1050 | H5 |
| Q1009 | E5 |
| Q1010 | E6 |
| Q1096 | E5 |
| Q1097 | E5 |
| Q1098 | E6 |

**MAIN (3)** (Side B)




• Semiconductor Location

| Ref no. | Location |
|---|---|
| D1008 | E4 |
| D1011 | B4 |
| D1018 | F4 |
| D1019 | C4 |
| D1021 | F4 |
| D1022 | D4 |
| D1023 | D4 |
| D1029 | E5 |
| D1035 | E5 |
| D1041 | E5 |
| D1047 | D4 |
| D1053 | F6 |
| D1056 | B4 |
| D1061 | C6 |
| D1062 | E6 |
| D1063 | D6 |
| IC101 | C5 |
| Q1005 | D6 |
| Q1013 | C5 |
| Q1020 | C5 |
| Q1030 | C5 |
| Q1031 | C4 |
| Q1032 | D5 |
| Q1033 | C4 |
| Q1039 | C5 |
| Q1040 | C5 |
| Q1041 | C5 |
| Q1042 | C5 |
| Q1081 | D5 |
| Q1084 | D5 |

**Notes)**

**Safety measures**

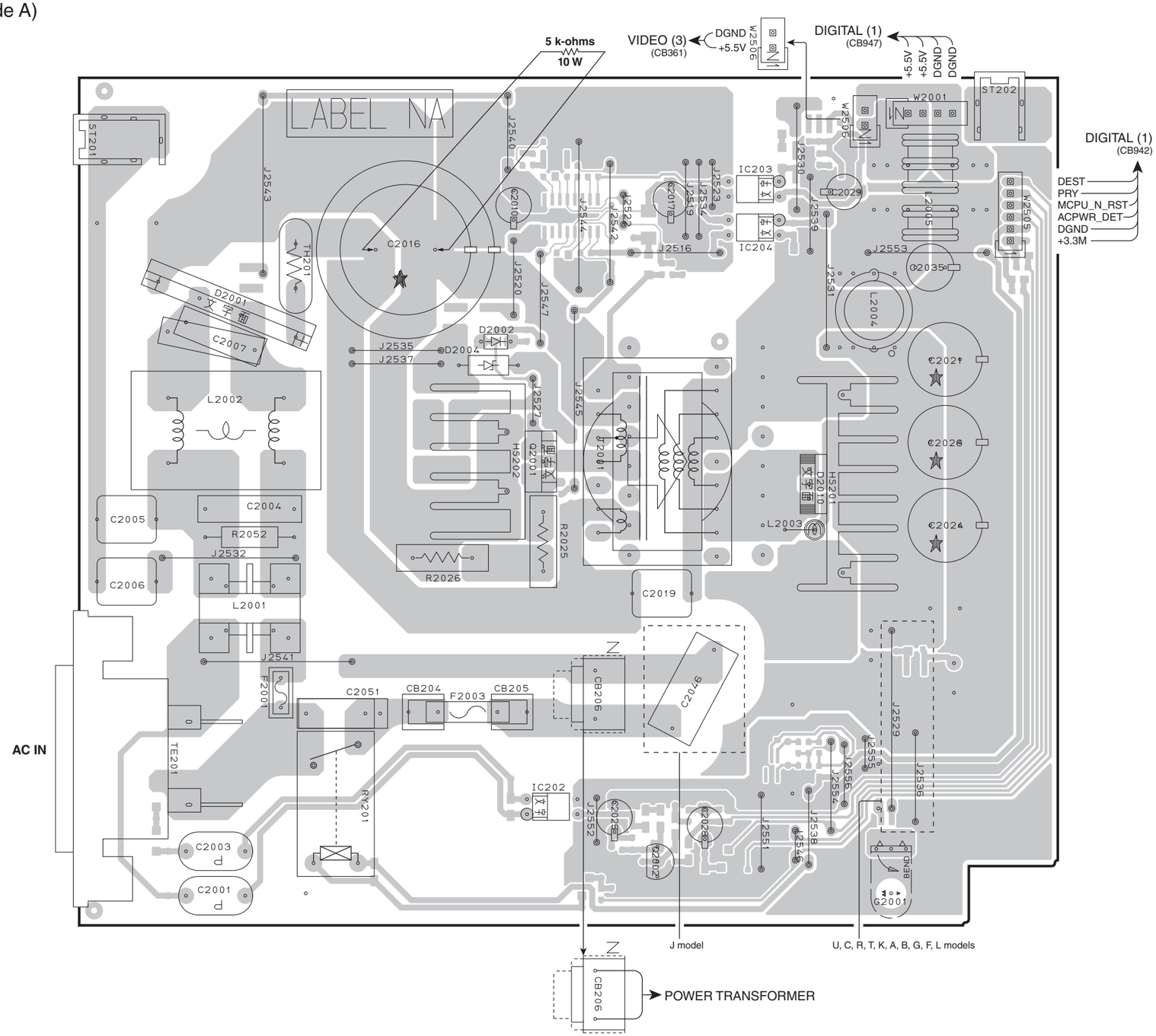
- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each.
  C2016 on POWER (1) P.C.B.

**注意）**

**安全対策**

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。修理作業前に放電用抵抗（5 k Ω /10 W）を下記の各コンデンサの端子間に接続して放電してください。放電所用時間は各々約 30 秒間です。
  POWER（1）P.C.B. の C2016

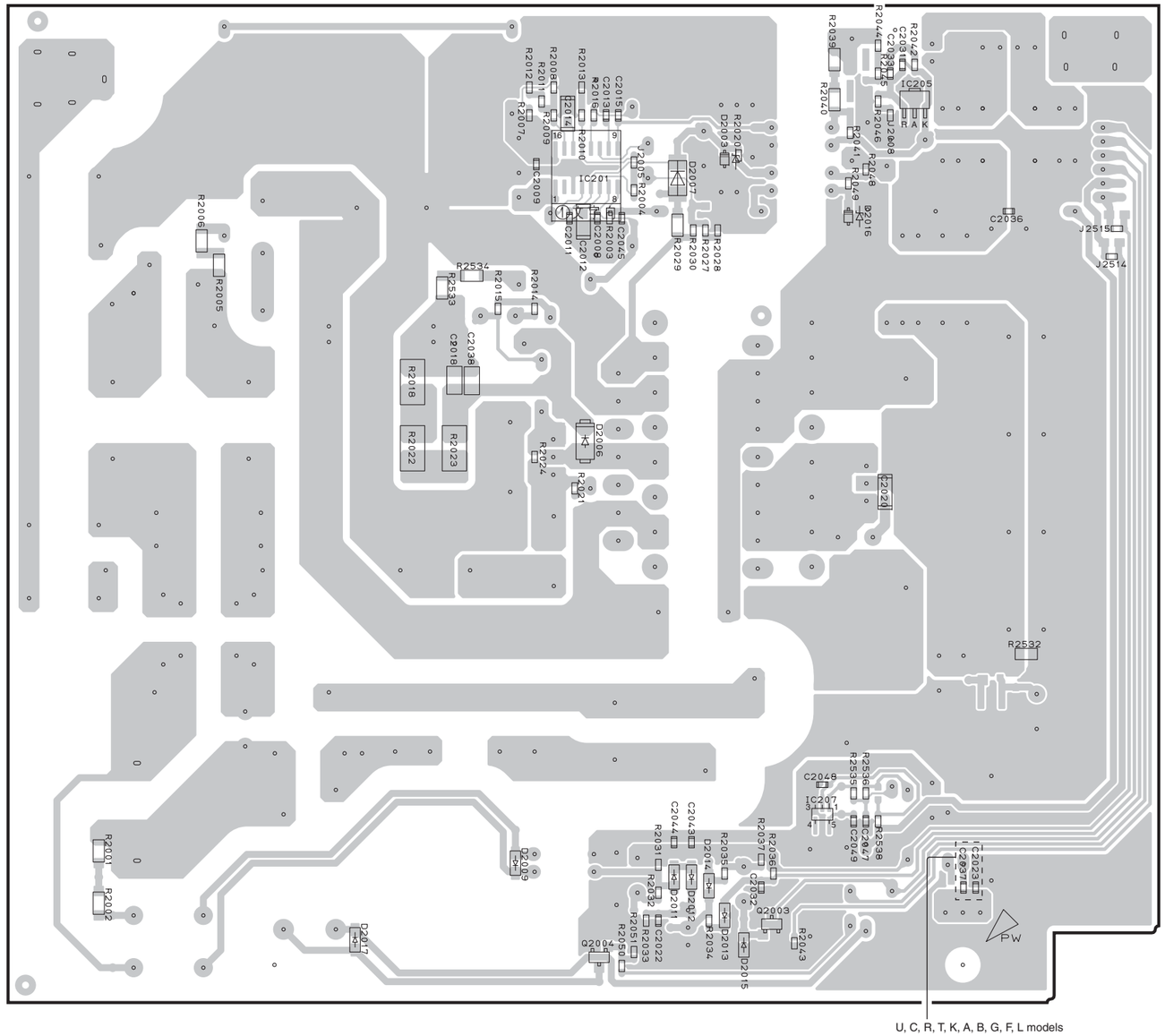
## POWER (1) (Side A)




• Semiconductor Location

| Ref no. | Location |
|---|---|
| D2001 | D3 |
| D2002 | E3 |
| D2004 | E3 |
| D2010 | G4 |
| IC202 | F6 |
| IC203 | G2 |
| IC204 | G3 |
| Q2001 | F4 |
| Q2002 | F6 |

## POWER (1) (Side B)



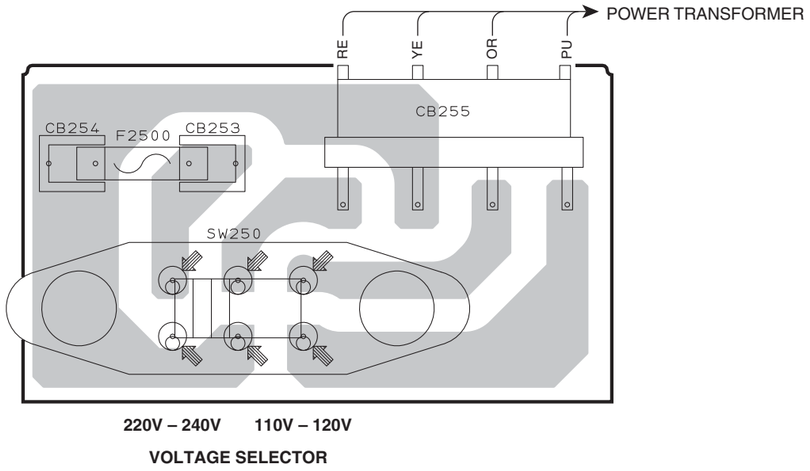

U, C, R, T, K, A, B, G, F, L models

• Semiconductor Location

| Ref no. | Location |
|---|---|
| D2003 | F2 |
| D2006 | E4 |
| D2007 | F3 |
| D2009 | E6 |
| D2011 | F6 |
| D2012 | F6 |
| D2013 | F6 |
| D2014 | F6 |
| D2015 | F6 |
| D2016 | F3 |
| D2017 | D6 |
| IC201 | E3 |
| IC205 | G2 |
| IC207 | F6 |
| Q2003 | F6 |
| Q2004 | E6 |

## POWER (2) (Side A)

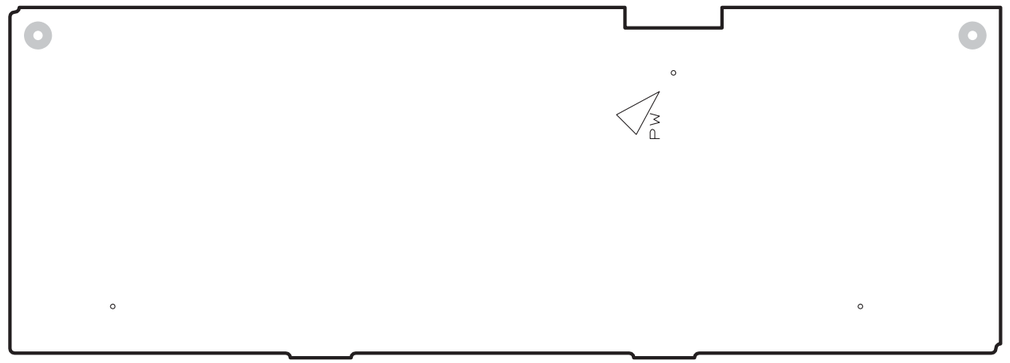
R model



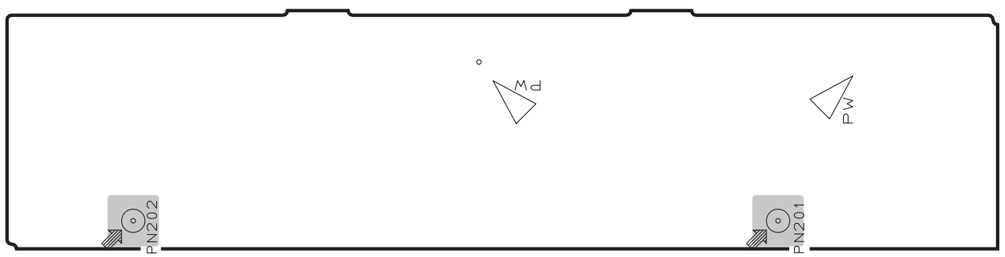

**220V – 240V 110V – 120V**

**VOLTAGE SELECTOR**

## POWER (3) (Side A)

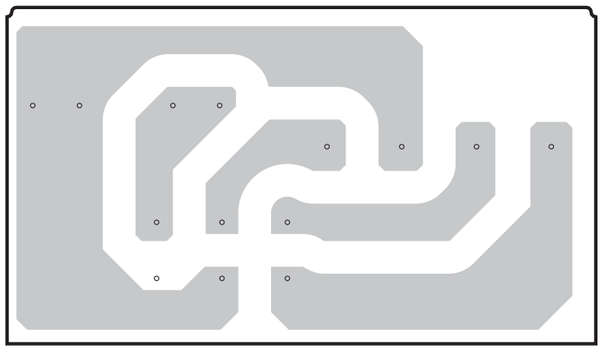



## POWER (4) (Side A)

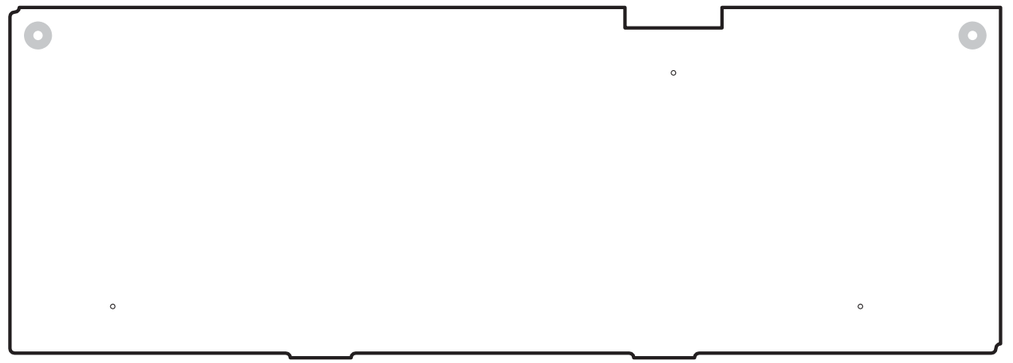


**POWER (2)** (Side B)

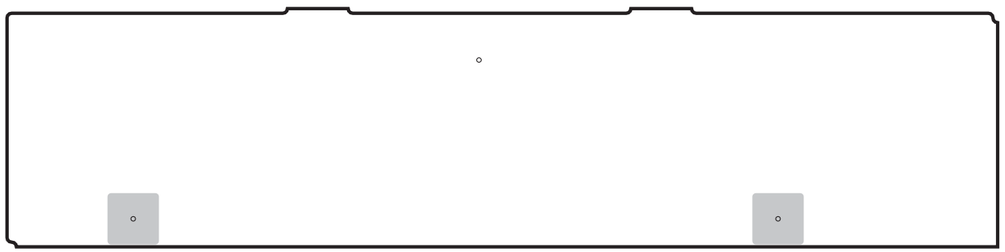
R model



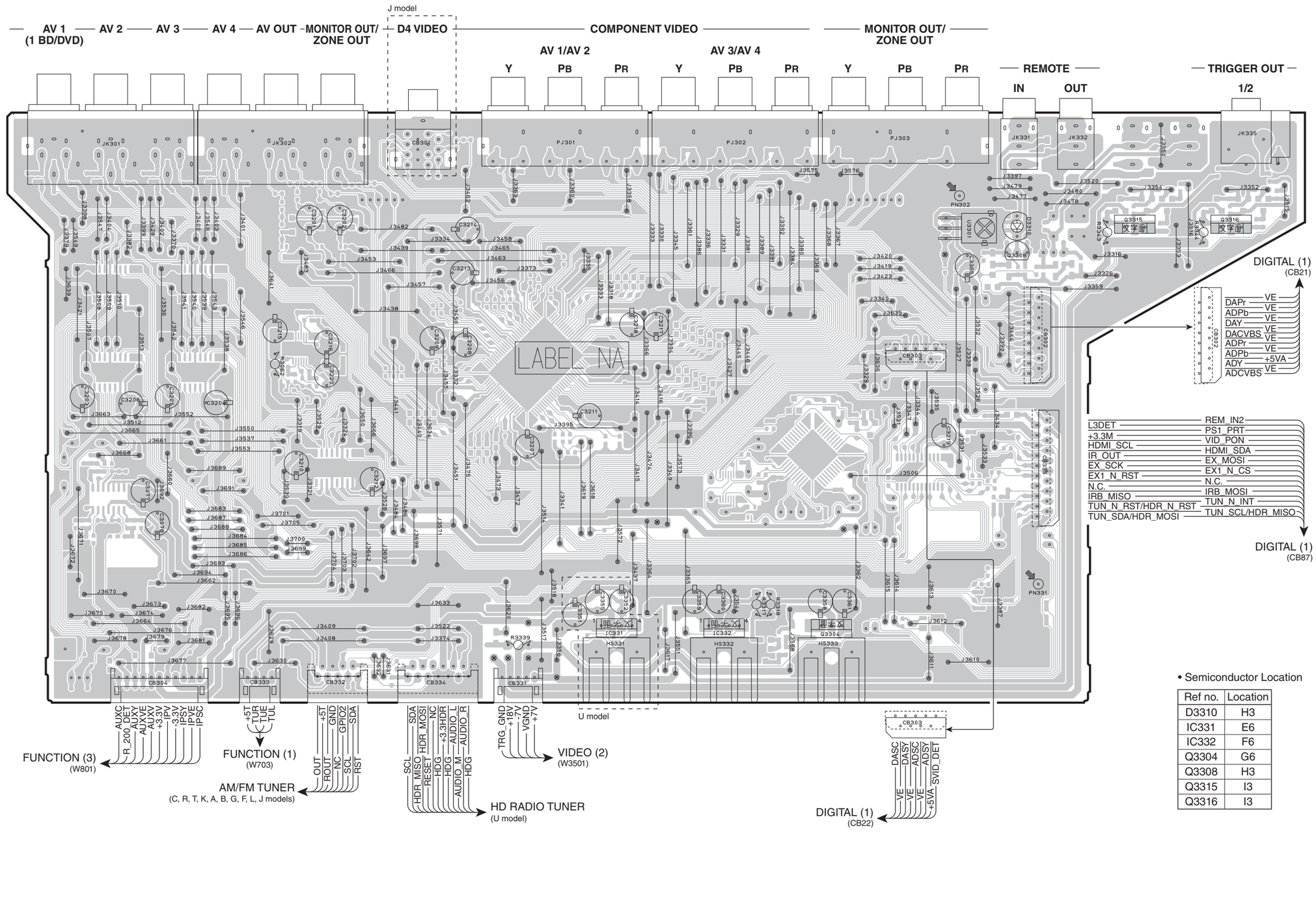
**POWER (3)** (Side B)



**POWER (4)** (Side B)



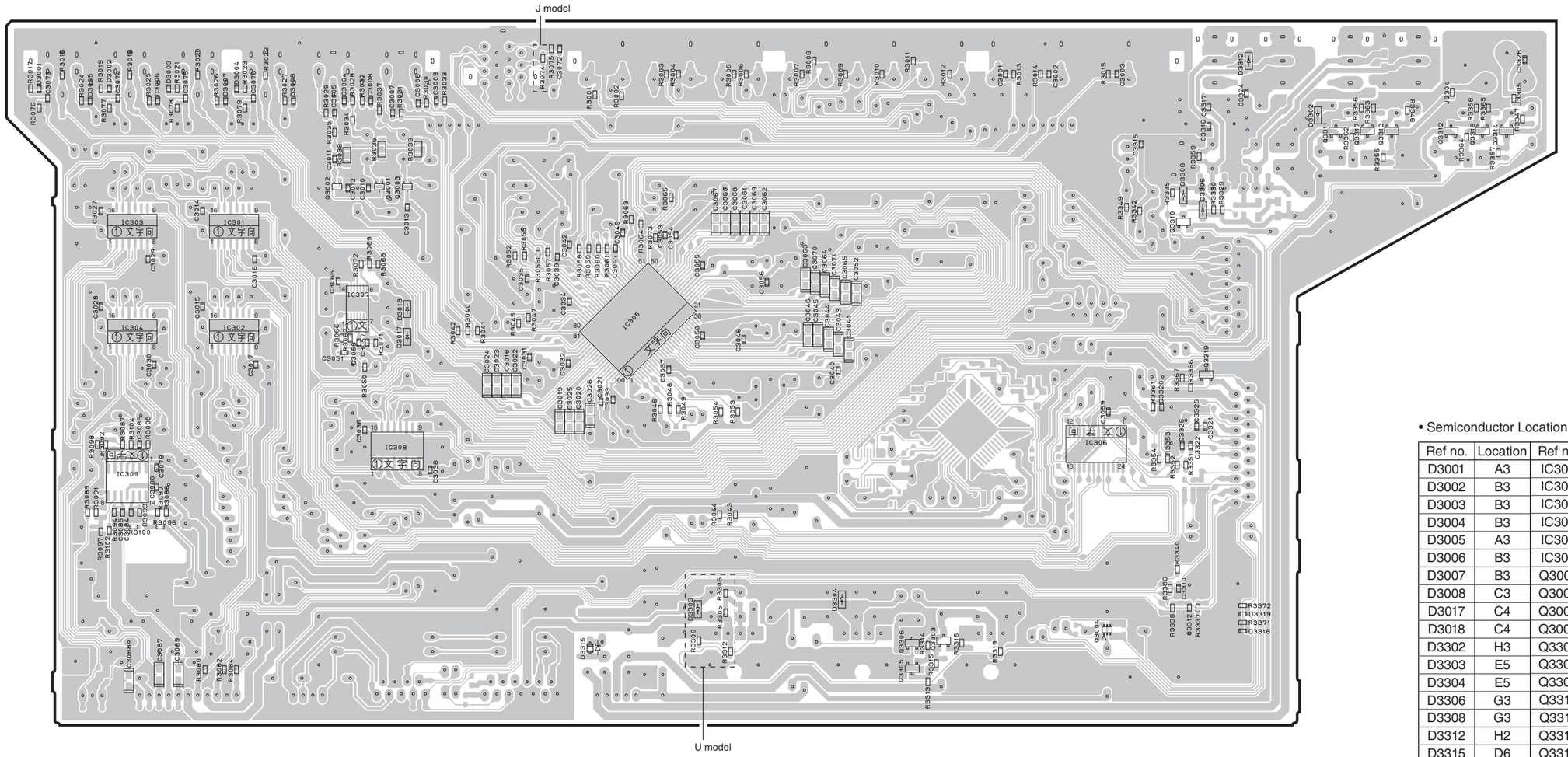
# VIDEO (1) (Side A)




• Semiconductor Location

| Ref no. | Location |
|---|---|
| D3310 | H3 |
| IC331 | E6 |
| IC332 | F6 |
| Q3304 | G6 |
| Q3308 | H3 |
| Q3315 | I3 |
| Q3316 | I3 |

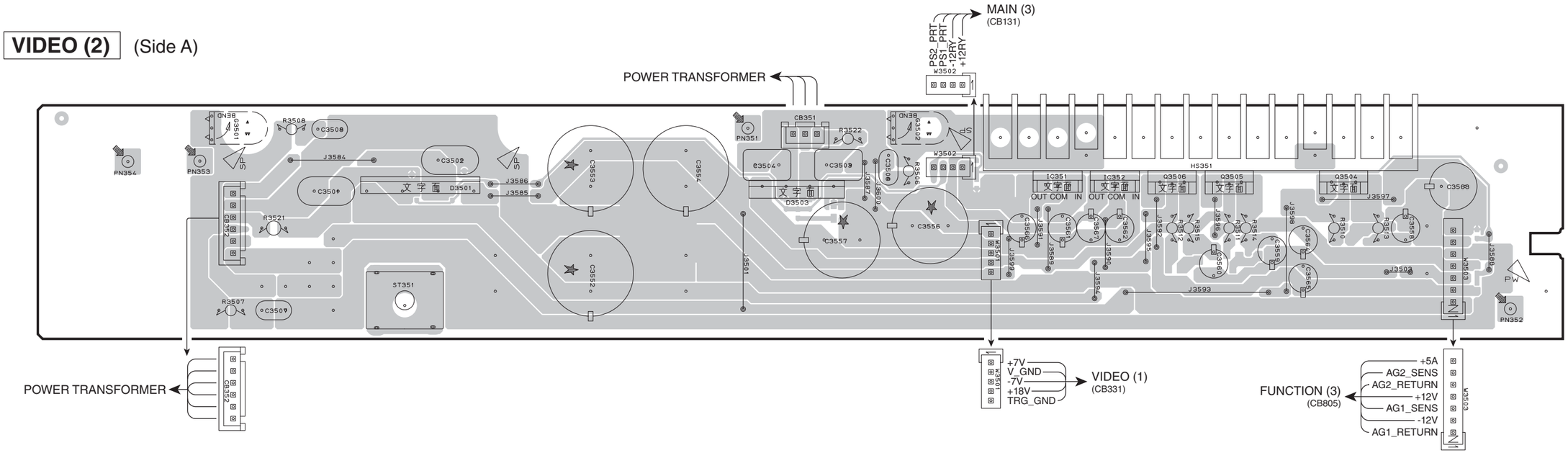
## VIDEO (1) (Side B)



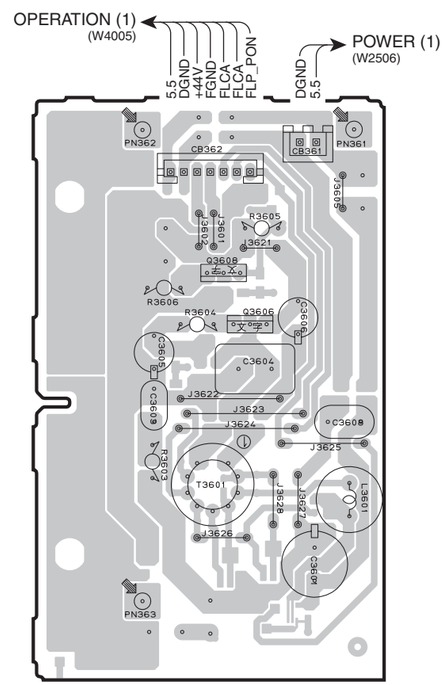

• Semiconductor Location

| Ref no. | Location | Ref no. | Location |
|---|---|---|---|
| D3001 | A3 | IC304 | B4 |
| D3002 | B3 | IC305 | D4 |
| D3003 | B3 | IC306 | G4 |
| D3004 | B3 | IC307 | C4 |
| D3005 | A3 | IC308 | C4 |
| D3006 | B3 | IC309 | B5 |
| D3007 | B3 | Q3001 | C3 |
| D3008 | C3 | Q3002 | C3 |
| D3017 | C4 | Q3003 | C3 |
| D3018 | C4 | Q3004 | G5 |
| D3302 | H3 | Q3303 | F6 |
| D3303 | E5 | Q3305 | F6 |
| D3304 | E5 | Q3306 | F6 |
| D3306 | G3 | Q3310 | G3 |
| D3308 | G3 | Q3311 | H3 |
| D3312 | H2 | Q3312 | I3 |
| D3315 | D6 | Q3313 | H3 |
| D3318 | H5 | Q3314 | I3 |
| D3319 | H5 | Q3317 | H3 |
| IC301 | B3 | Q3318 | I3 |
| IC302 | B4 | Q3319 | G4 |
| IC303 | B3 | | |

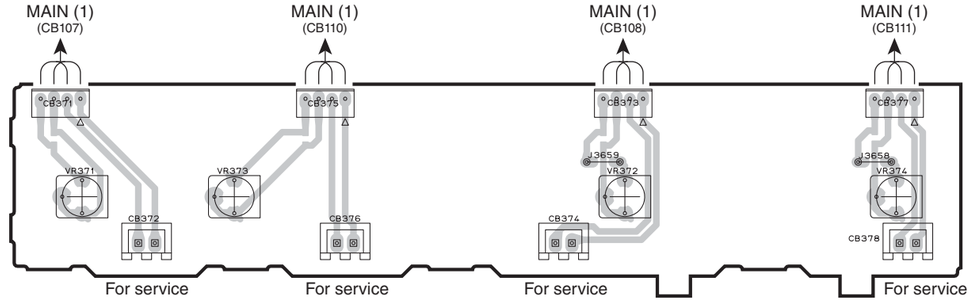
## VIDEO (2) (Side A)



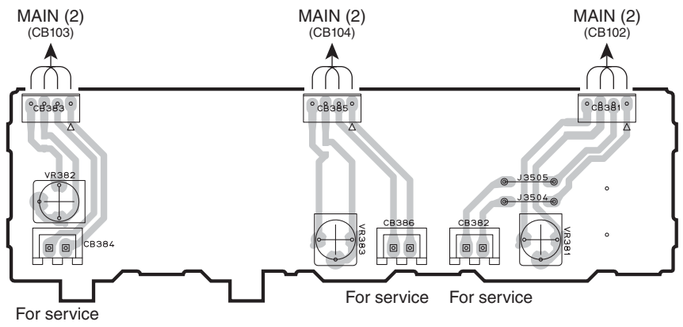

## VIDEO (3) (Side A)




## VIDEO (4) (Side A)



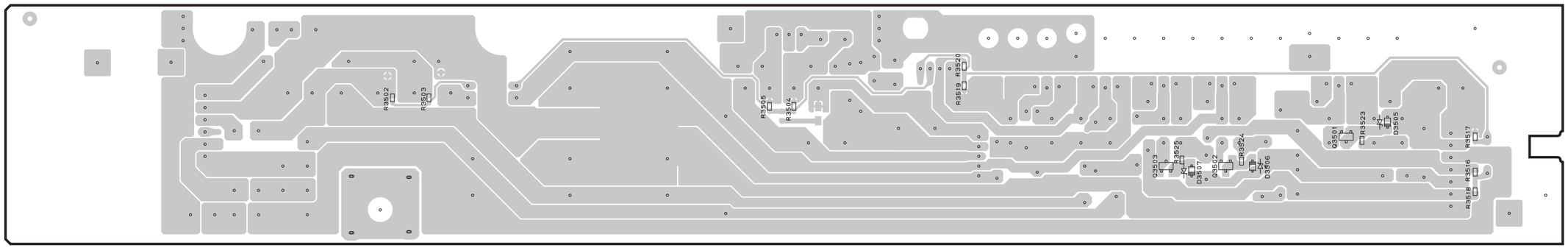

## VIDEO (5) (Side A)



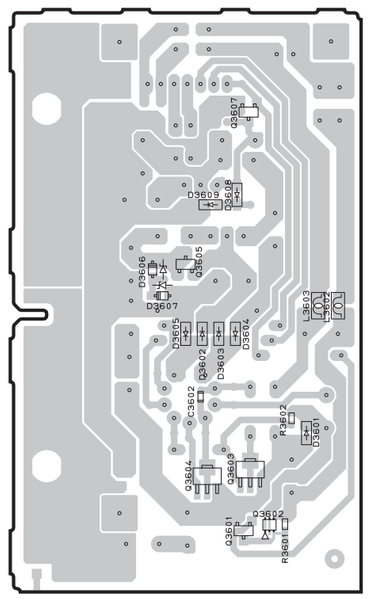

• Semiconductor Location

| Ref no. | Location |
|---|---|
| D3501 | D2 |
| D3503 | F2 |
| IC351 | G2 |
| IC352 | H2 |
| Q3504 | I2 |
| Q3505 | H2 |
| Q3506 | H2 |
| Q3606 | C5 |
| Q3608 | C5 |

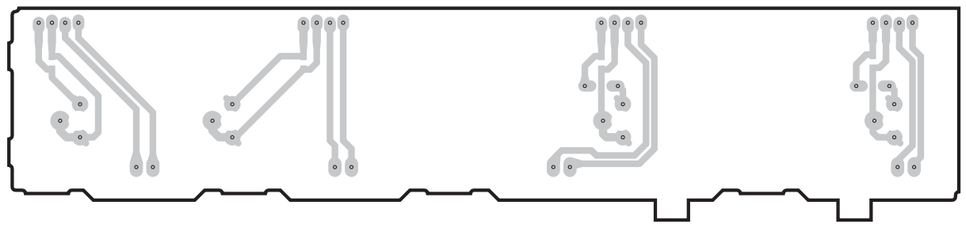
## VIDEO (2) (Side B)



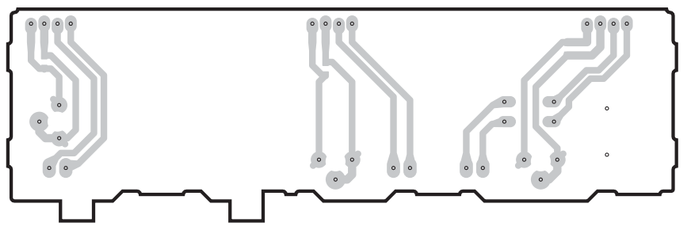

## VIDEO (3) (Side B)




## VIDEO (4) (Side B)



## VIDEO (5) (Side B)



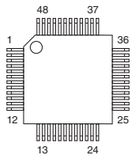
• Semiconductor Location

| Ref no. | Location |
|---|---|
| D3505 | I2 |
| D3506 | H3 |
| D3507 | H3 |
| D3601 | C6 |
| D3602 | B6 |
| D3603 | B6 |
| D3604 | C6 |
| D3605 | B6 |
| D3606 | B6 |
| D3607 | B6 |
| D3608 | C5 |
| D3609 | B5 |
| Q3501 | I3 |
| Q3502 | H3 |
| Q3503 | H3 |
| Q3601 | C7 |
| Q3602 | C7 |
| Q3603 | C6 |
| Q3604 | B6 |
| Q3605 | B6 |
| Q3607 | C5 |

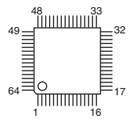
# ■ PIN CONNECTION DIAGRAMS

## • ICs

ADV7172KST




ADV7181CBSTZ



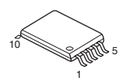

BA15218F



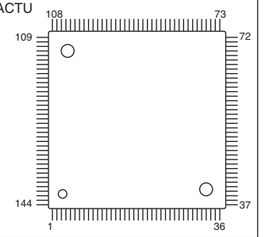

BD9329AEFJ-E2



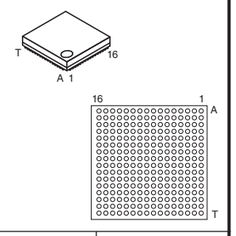

CS230011-CZZR



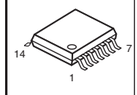

D70YE101BRFP266
SiI9233ACTU



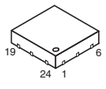

EP2C8F256C8N



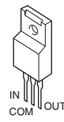

FHP3350IM14X



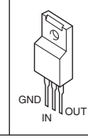

5V49EE503-027NLGI8



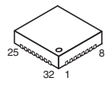

KIA7812API



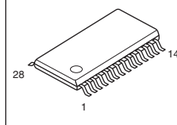

KIA7912PI



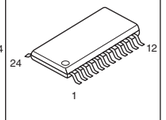

KSZ8051RNL



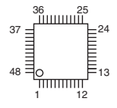

L6566BTR



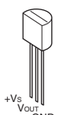

LC709004A-TLM-E



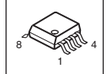

LC4032ZE-7TN48C



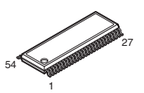

LM19CIZ/LF



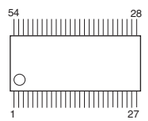

LM833MX



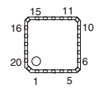

M12L128168A-5TG2L



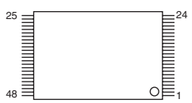

M12L64164A-5TG




MFI341S2164



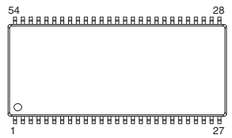

MX29LV160DBTI-70G




MX29LV640EBTI-70G



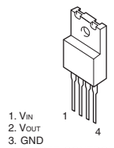

NT5SV32M8CS-6K




NJM2068MD-TE2



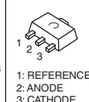

NJM2388F33



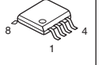

NJM2888F05



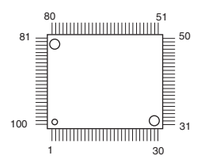

NJM431U



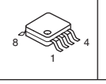

NJM4565M (TE1)



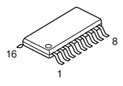

NJW1327FU1



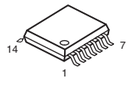

PCA9517ADP



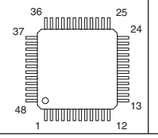

PCM1781DBQR




PCM1789PWR



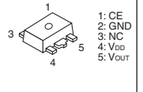

PCM9210PTR




R1172H121D-T1-F




R1172H501D-T1-F



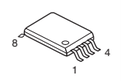

R1172N501D-TR-F



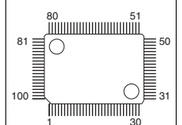

R1172S331D-E2-F



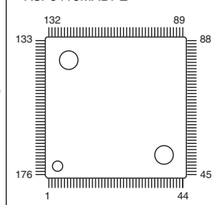

R1EX24128BTAS0A
R1EX25512ATA00A




R2A15220FP



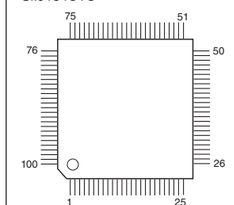

R5F6416MADFE




RP130Q121D-TR-F
RP130Q181D-TR-F
RP130Q331D-TR-F
RP130Q501D-TR-F



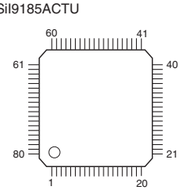

SiI9134CTU



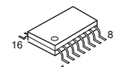

R3112N421A-TR-F
SN74LVC1G17DCKR



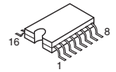

SiI9185ACTU



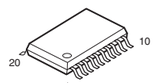

SN74LV4051APWR



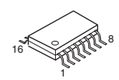

TC74HC4051AFEL
TC74HC4052AF




TC74LCX245FT

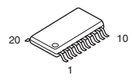



TC74VHC157FT

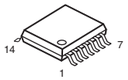



## • ICs

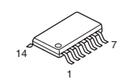
TC74VHC273FT (EL,K)




TC74VHC86FT (EL)



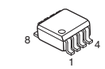

TC74VHCU04FT



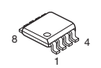

TC7SET08FU
TC7SH08FU
TC7SH125FU



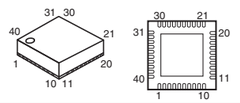

TC7WH126FU
TC7WHU04FU



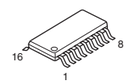

TC7WZ32FK (TE85L, F)



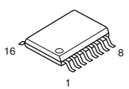

TMDS141RHAR




TRS3221ECPWR

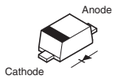



W25Q128BVFIG

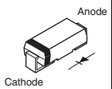



## • Diodes

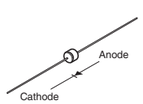
1SS355VMTE-17



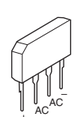

D1FL20U-5063



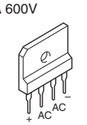

D1NL20U-5083



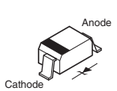

D2SBA60-7001



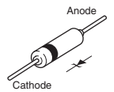

D4SBS6-7101 4A 60V
D5SBA60 5A 600V
D6SBN20



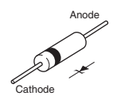

HZU4.7B2 TRF-E
HZU15B2 TRF-E



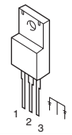

MTZJ5.1C



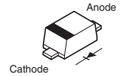

P6KE200ARL



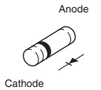

RB215T-60



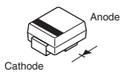

RB501V-40
RB521S-30



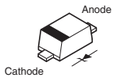

RLS245




STTH110A

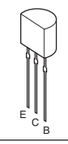



UDZV3.6B
UDZV5.1B
UDZV5.6B
UDZV6.2B
UDZV7.5B
UDZV8.2B
UDZV13B
UDZV22B

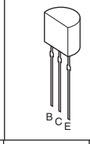



## • Transistors

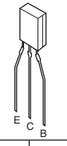
2SA1015-Y
2N5401C-AT/P




2N5551C-AT



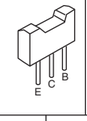

2SA1208S/T-AE
2SC2910S/T-AE



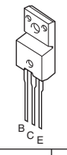

2SA1576A



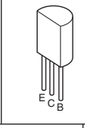

2SA1708
2SC4488




2SB1257




2SC1815 Y




2SC3326-A (TE85R, F)
2SC3326-B (TE85R, F)




2SC3906K



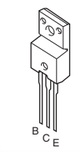

2SC4081 T106




2SC5964-TD-E




2SD2014




2SD2704 K




2SK208-Y




5HN01C-TB-E




DTA043EUBTL
DTA044EUBTL
DTC044EUBTL



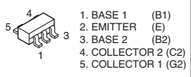

DTC114EKA
DTC144EKA



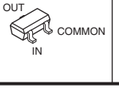

HN4B01JE



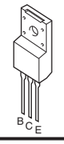

HN4C06J



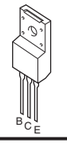

KRA104S-RTK
KRC104S-RTK




KTA1046-Y-U/P



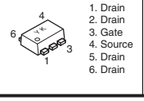

KTA1659A-U/PF



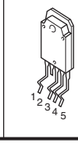

KTA1504S
KTA1517S
KTC3875S



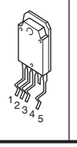

MCH6336-TL-E



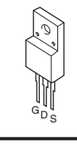

STD01P



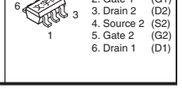

STD01N




STF9NK90Z




μPA672T-T1-A



# ■SCHEMATIC DIAGRAMS

## DIGITAL 1/8

Page 122 J7
to DIGITAL (2)_CB32

HDMI

AV 7 — HDMI IN-7 JAE VADB : WW27170 (CB7 DC1R019JAXR190)

AV 6 — HDMI IN-6 (CB6 DC1R019JAXR190)

AV 5 — HDMI IN-5 (CB5 DC1R019JAXR190)

AV 4 — HDMI IN-4 (CB4 DC1R019JAXR190)

AV 3 — HDMI IN-3 (CB3 DC1R019JAXR190)

AV 2 — HDMI IN-2 (CB2 DC1R019JAXR190)

AV 1 (1 BD/DVD) — HDMI IN-1 (CB1 DC1R019JAXR190)

HDMI IN-Front (CB10 52793-2070)

CEC

105 ohm

100 ohm

HDMI SWITCHER
IC2
SII9185ACTU
SlaveAddr=0xD0, 0xE4
3.3V:57mA
1.8V:320mA

HDMI SWITCHER
IC1
SII9185ACTU
SlaveAddr=0xD0, 0xE0
3.3V:57mA
1.8V:320mA

HDMI RECEIVER
HDMI Receiver
SII9233ACTU
3.3V:378mA
1.2V:320mA
IC3

No replacement part available.
サービス部品供給なし

GPIO使用候補
GPO/XCL:
GPI/SCO:
GPO/EVN:
GPO/WTO:
GPIO4 :RX-CEC-RY1
GPIO5 :RX-CEC-RY2
GPI6/DL3/SHT1-PON
GPI7/DR3/SHT2-PON

Local I2C add
Low :0x60/68
High:0x62/6A

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 |
| ⊘ | SEMI VARIABLE 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 |
| ◎ | POLYPROPYLENE FILM CAPACITOR |
| ◉ | SEMICONDUCTIVE CERAMIC CAPACITOR |

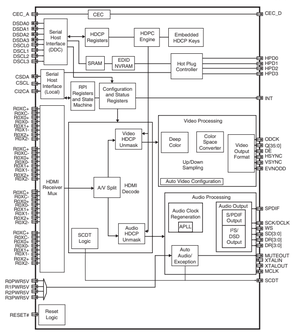
NOTICE (model)
(J)..... JAPAN
(U)..... U.S.A.
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

To 004.sht (FPGA)
to DIGITAL 3/8

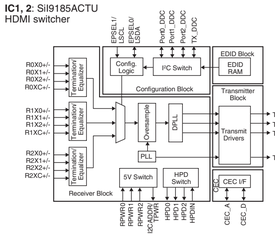
to DIGITAL 4/8
To 005.sht (HDMI_Tx)
to DIGITAL 5/8
To 006.sht (A-com)
to DIGITAL 2/8, 3/8
To 002.sht (VDEC/ENC)
To 003.sht (SCALER)
To 004.sht (FPGA)

DIGITAL (1)

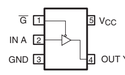
**IC3**: SiI9233ACTU
HDMI receiver



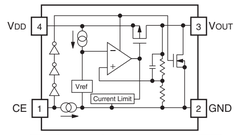

**IC1, 2**: SiI9185ACTU
HDMI switcher




**IC4**: TC7SH125FU
Bus buffer

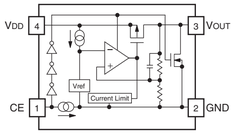



**IC5**: RP130Q121D-TR-F
Voltage regulator



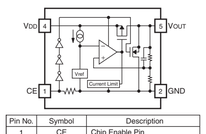

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

**IC6**: RP130Q501D-TR-F
Voltage regulator




| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

**IC7**: R1172H121D-T1-F
CMOS-based positive-voltage regulator IC




| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable Pin |
| 2 | GND | Ground Pin |
| 3 | NC | No Connection |
| 4 | VDD | Input Pin |
| 5 | VOUT | Output Pin of Voltage Regulator |

Sheet1:HDMI Rx
IC/CB/XL:1-300
OHTER :1-300

★ 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.

● ⚠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あります。

# DIGITAL 2/8

Page 134 M6
to VIDEO (1)_CB303
Page 134 M5
to VIDEO (1)_CB302

S-Video

DIGITAL (1)

to DIGITAL 5/8
to sheet6 (u-com)
to DIGITAL 3/8
to sheet4 (FPGA)
to DIGITAL 1/8
to sheet1 (HDMI Rx)

VIDEO ENCODER
IC22
ADV7172KSTZ
VIDEO ENCODER
I2C Addr ALBS=1:0x40/0x20 ALBS=0:0x42/0x22
3.3V : 60mA

VIDEO DECODER
Video Decoder
ADV7181CBSTZ
IC21
3.3V : 204mA
1.8V : 116mA
I2C Addr
ALBS=1:0x40/0x20
ALBS=0:0x42/0x22

Sheet2:VDEC/VENC

IC/CB/XL:20-29
OHTER :200-350
TP :200-350

VIDEO AUX
HDMI IN
HDMI IN-FrontPanel

DIGITAL (2)

HDMI Support JIG
WU06290

No replacement part available.
サービス部品供給なし

HDMI Equalizer
IC31
PQS5141

DIGITAL (3)

RS-232C

Page 121 L1
to DIGITAL (1)_CB10
Page 125 D9
to DIGITAL (1)_CB88

IC/CB/XL:30-39
OHTER :351-399
TP :351-399

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 |
| ⓟ | POLYPROPYLENE FILM CAPACITOR |
| ◉ | SEMICONDUCTIVE CERAMIC CAPACITOR |

RESISTOR

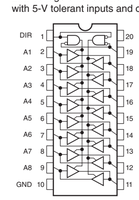
| REMARKS | PARTS NAME |
|---|---|
| NO MARK | CARBON FILM RESISTOR (P=5) |
| ◰ | CARBON FILM RESISTOR (P=10) |
| △ | METAL OXIDE FILM RESISTOR |
| ◬ | METAL FILM RESISTOR |
| ⊠ | METAL PLATE RESISTOR |
| ◪ | FIRE PROOF CARBON FILM RESISTOR |
| □ | CEMENT MOLDED RESISTOR |
| ⊘ | SEMI VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

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
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

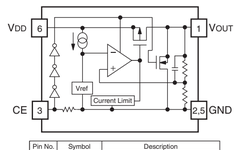
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

● ⚠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あります。

**IC23-25**: TC74LCX245FT
Low voltage octal bus transceiver with 5-V tolerant inputs and outputs

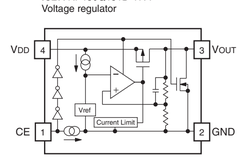



**IC26**: R1172S331D-E2-F
CMOS-based positive-voltage regulator IC



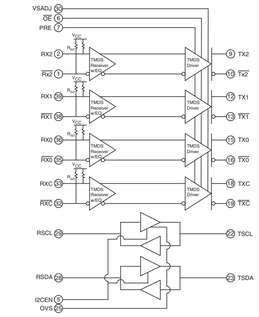

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | VOUT | Output Pin |
| 2, 5 | GND | Ground Pin |
| 3 | CE | Chip Enable Pin ("H" Active) |
| 4 | NC | No Connection |
| 6 | VDD | Input Pin |

**IC27**: RP130Q181D-TR-F
Voltage regulator

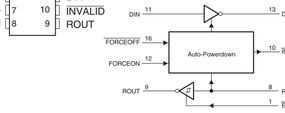



| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

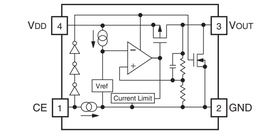
**IC31**: TMDS141RHAR
HDMI switch




**IC32**: TRS3221ECPWR
3 V to 5.5 V single channel RS-232 line driver/receiver with ±15 kV IEC ESD protection

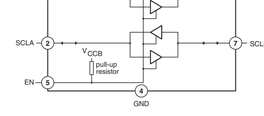



**IC33**: RP130Q331D-TR-F
Voltage regulator

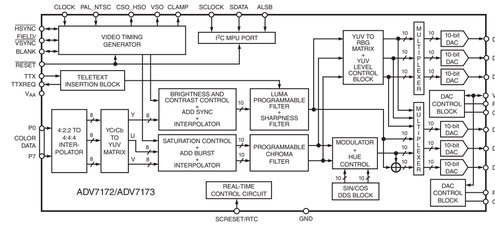



| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

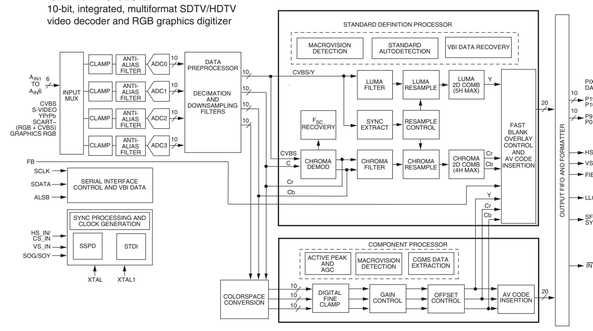
**IC34**: PCA9517ADP
Level translating I²C-bus repeater



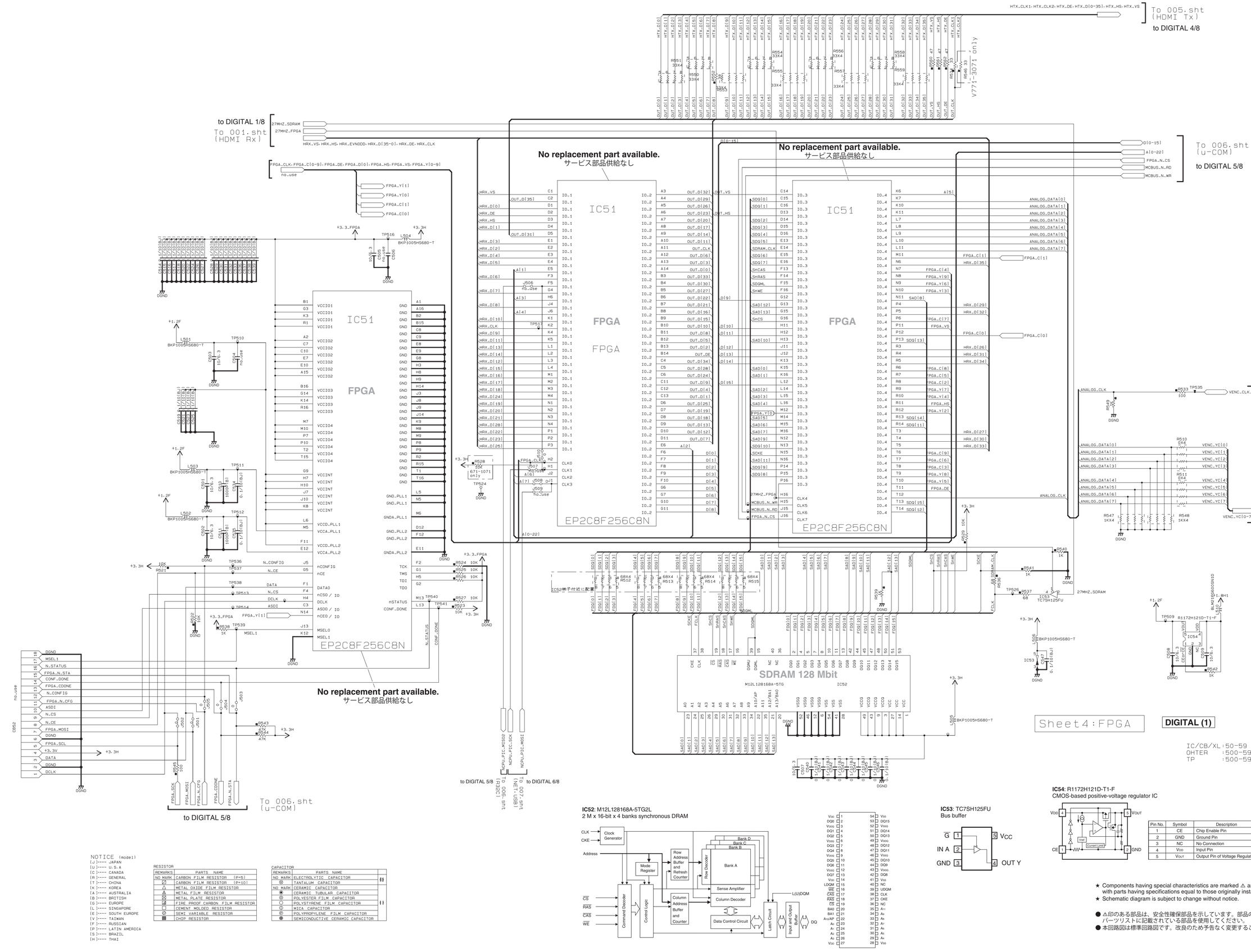

**IC22**: ADV7172KSTZ
Digital PAL/NTSC video encoder



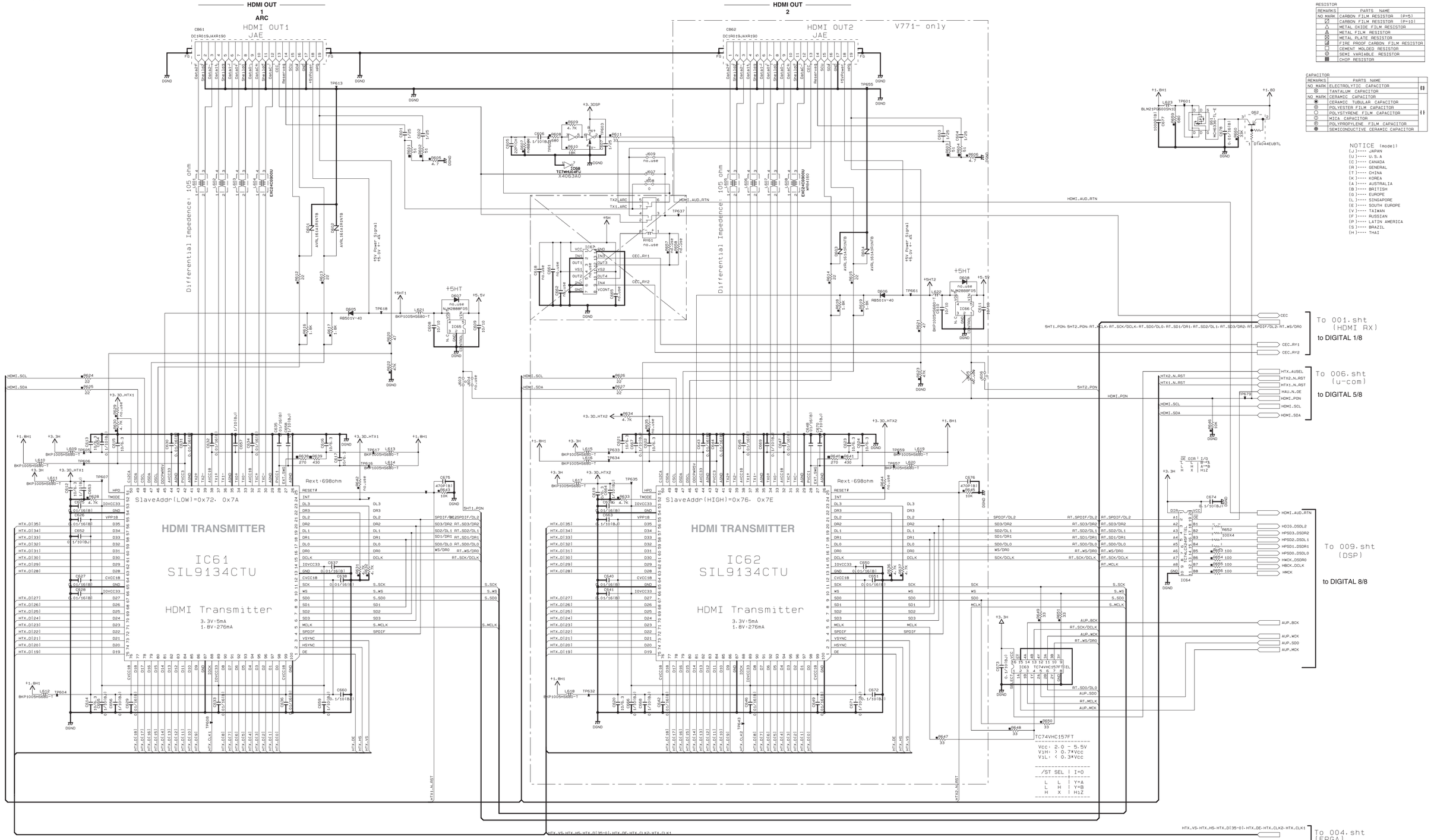

**IC21**: ADV7181CBSTZ
10-bit, integrated, multiformat SDTV/HDTV video decoder and RGB graphics digitizer



# DIGITAL 3/8


HTX_CLK1, HTX_CLK2, HTX_DE, HTX_D[0-35], HTX_HS, HTX_VS
To 005.sht (HDMI Tx)
to DIGITAL 4/8
V771-3071 only
to DIGITAL 1/8
To 001.sht (HDMI Rx)
27MHZ_SDRAM
27MHZ_FPGA
HRX_VS, HRX_HS, HRX_EVNODD, HRX_D[35-0], HRX_DE, HRX_CLK
FPGA_CLK, FPGA_C[0-9], FPGA_DE, FPGA_D[0], FPGA_HS, FPGA_VS, FPGA_Y[0-9]
no use
FPGA_Y[1]
FPGA_Y[0]
FPGA_C[1]
FPGA_C[0]
+3.3_FPGA
+3.3H
TP516
L504
BKP1005HS680-T
DGND
+1.2F
L501
TP510
L503
TP511
L502
TP512
TP536
TP537
TP538
TP539
TP540
TP541
TP513
TP514
N_CONFIG
N_CE
DATA
N_CS
DCLK
ASDI
MSEL0
MSEL1
FPGA_Y[1]
IC51
FPGA
EP2C8F256C8N
No replacement part available.
サービス部品供給なし
D[0-15]
A[0-22]
IC52
SDRAM 128 Mbit
M12L128168A-5TG
IC52
IC53
TC7SH125FU
IC54
R1172H121D-T1-F
R524 10K
R525 10K
R526 10K
R527 10K
R523 10K
R528 20K
R538 1K
R540 1K
R541 1K
R542 1K
R543 47K
R544 47K
R545 100
R546 33
R547 1KX4
R548 1KX4
R549 0X4
R550 47
R551 33X4
R552 33
R553 33
R554 33X4
R555 33
R556 33X4
R557 33X4
R558 33X4
R559 33X4
R560 47
R561 47
R562 33
R563 33
R564 33
R565 33
R566 33
R567 33
R568 33
R569 33
R570 33
R571 33
R572 33
R573 33
R574 33
R575 33
R576 33
R577 33
R578 33
R579 33
R580 33
R581 33
R582 33
R583 33
R584 33
R585 33
R586 33
R587 33
R588 33
R589 33
R590 33
R591 33
R592 33
R593 33
R594 33
R595 33
R596 33
R597 33
R598 33
R599 33
R600 33
R601 33
R602 33
R603 33
R604 33
R605 33
R606 33
R607 33
R608 33
R609 33
R610 33
R611 33
R612 68X4
R613 68X4
R614 68X4
R615 68X4
R616 68X4
R617 68X4
R618 68X4
R619 68X4
R620 68X4
R621 68X4
R622 68X4
R623 68X4
R624 68X4
R625 68X4
R626 68X4
R627 68X4
R628 68X4
R629 68X4
R630 68X4
R631 68X4

# DIGITAL 4/8




RESISTOR

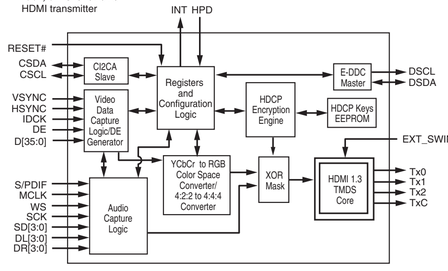
| REMARKS | PARTS NAME |
|---|---|
| NO MARK | CARBON FILM RESISTOR (P=5) |
| | CARBON FILM RESISTOR (P=10) |
| | METAL OXIDE FILM RESISTOR |
| | METAL FILM RESISTOR |
| | METAL PLATE RESISTOR |
| | FIRE PROOF CARBON FILM RESISTOR |
| | CEMENT MOLDED RESISTOR |
| | SEMI VARIABLE RESISTOR |
| | CHIP RESISTOR |

CAPACITOR

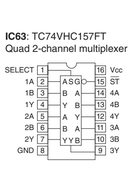
| REMARKS | PARTS NAME | |
|---|---|---|
| NO MARK | ELECTROLYTIC CAPACITOR | II |
| | TANTALUM CAPACITOR | |
| NO MARK | CERAMIC CAPACITOR | II |
| | CERAMIC TUBULAR CAPACITOR | |
| | POLYESTER FILM CAPACITOR | |
| | POLYSTYRENE FILM CAPACITOR | |
| | MICA CAPACITOR | |
| | POLYPROPYLENE FILM CAPACITOR | |
| | SEMICONDUCTIVE CERAMIC CAPACITOR | |

NOTICE (model)
(U)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(M)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE
(E)····· SOUTH EUROPE
(V)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(S)····· BRAZIL
(H)····· THAI

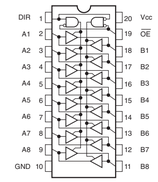
**IC61, 62**: Sil9134CTU
HDMI transmitter



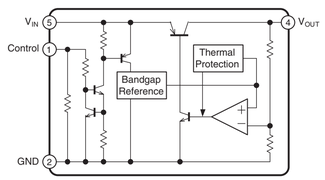

**IC63**: TC74VHC157FT
Quad 2-channel multiplexer



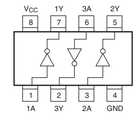

**IC64**: TC74LCX245FT
Low voltage octal bus transceiver
with 5-V tolerant inputs and outputs




**IC65, 66**: NJM2888F05
Low dropout voltage regulator




**IC68**: TC7WHU04FU
Triple inverter




★ 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.

● ⚠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あります。

IC/CB/XL:60-79
OHTER :600-799
TP :600-799

Sheet5:HDMI Tx

**DIGITAL (1)**

# DIGITAL 5/8

to DIGITAL 1/8 to 001.sht (HDMI Rx)
to DIGITAL 2/8 to 002.sht (Video Dec/Enc)
to DIGITAL 3/8 004.sht (FPGA)
to DIGITAL 4/8 to 005.sht (HDMI Tx)
to DIGITAL 7/8 to 008.sht(DSP)
to DIGITAL 6/8 to 007.sht(NET/USB)
to DIGITAL 8/8 to 009.sht(Dock)

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
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

RESISTOR

| REMARKS | PARTS NAME |
|---|---|
| NO MARK | CARBON FILM RESISTOR (P=5) |
| ☑ | CARBON FILM RESISTOR (P=1) |
| △ | METAL OXIDE FILM RESISTOR |
| ▲ | METAL FILM RESISTOR |
| ⊠ | METAL PLATE RESISTOR |
| ▣ | FIRE PROOF CARBON FILM RESISTOR |
| □ | CEMENT MOLDED RESISTOR |
| ⊘ | SEMI VARIABLE 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 |
| ① | MICA CAPACITOR |
| ⊙ | MOSPOLYPROPYLENE FILM CAPACITOR |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR |

MICROPROCESSOR

IC81 YDA0040 R5F6416M4DFE

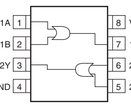
**No replacement part available.**
サービス部品供給なし

Page 122 J9 to DIGITAL (3)_W31
Page 135 L2 to VIDEO (1)_CB335
Page 129 G9 to FUNCTION (1)_CB705
Page 132 B3 to MAIN (3)_W1041
Page 132 N3 to MAIN (5)_W1050
Page 132 N2 to MAIN (4)_W1040
Page 131 B7 to OPERATION (1)_CB401

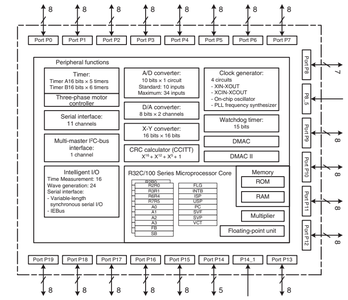
**DIGITAL (1)**

BD-99 800-999

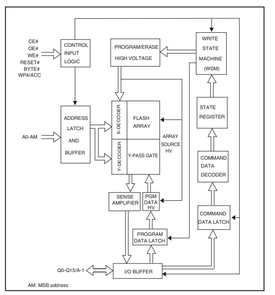
**IC80, 96**: TC7WZ32FK (TE85L, F)
Dual 2-input OR gate

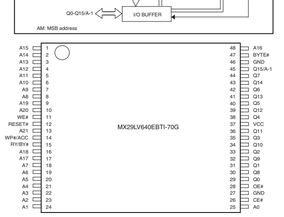



**IC81**: R5F6416MADFE
Single chip 32-bit microprocessor




**IC82**: MX29LV640EBTI-70G
64 M-bit single voltage 3 V only flash memory

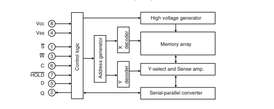


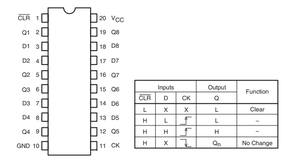

to Programmer
to Eeprom

(Writing port)

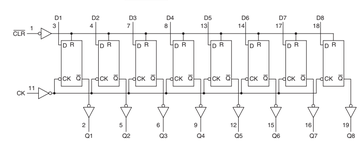
**IC83**: R1EX25512ATA00A
64 K word x 8-bit serial peripheral interface EEPROM



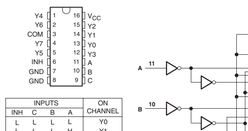

**IC84–87**: TC74VHC273FT (EL,K)
Octal D-type flip-flop with clear



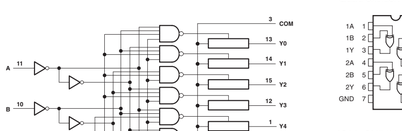

| Inputs | | | Output | Function |
|---|---|---|---|---|
| CLR | D | CK | Q | |
| L | X | X | L | Clear |
| H | L | ↑ | L | – |
| H | H | ↑ | H | – |
| H | X | L, H, ↓ | $Q_{n0}$ | No Change |



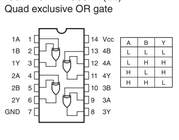

**IC89, 90**: SN74LV4051APWR
8-channel analog multiplexers/demultiplexers




| INPUTS | | | | ON |
|---|---|---|---|---|
| INH | C | B | A | CHANNEL |
| L | L | L | L | Y0 |
| L | L | L | H | Y1 |
| L | L | H | L | Y2 |
| L | L | H | H | Y3 |
| L | H | L | L | Y4 |
| L | H | L | H | Y5 |
| L | H | H | L | Y6 |
| L | H | H | H | Y7 |
| H | X | X | X | None |

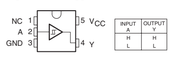



**IC91**: TC74VHC86FT (EL)
Quad exclusive OR gate



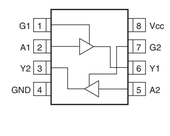

| A | B | Y |
|---|---|---|
| L | L | L |
| L | H | H |
| H | L | H |
| H | H | L |

**IC92**: SN74LVC1G17DCKR
Single schmitt-trigger buffer

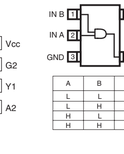



| INPUT A | OUTPUT Y |
|---|---|
| H | H |
| L | L |

**IC93**: TC7WH126FU
Dual bus buffer

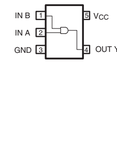



**IC94**: TC7SET08FU
2 input AND gate

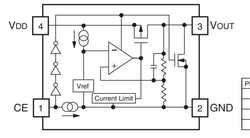



| A | B | Y |
|---|---|---|
| L | L | L |
| L | H | L |
| H | L | L |
| H | H | H |

**IC95**: TC7SH08FU
2-input AND gate

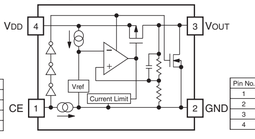



**IC97, 98**: RP130Q331D-TR-F
Voltage regulator




| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

**IC99**: RP130Q501D-TR-F
Voltage regulator




| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

★ 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.

● ⚠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あります。

# DIGITAL 6/8

## DIGITAL (1)

NET/USB +3.3V

NET/USB +1.2V

SDRAM

CPLD Configuration

**IC901**: ADSST-DR-11Z
Blackfin embedded processor

**IC902, 903**: NT5SV32M8CS-6K
256 Mb x 8 SDRAM

**IC904**: W25Q128BVFIG
128 M-bit serial flash memory

NETWORK MICROPROCESSOR

SERIAL FLASH

CPLD
IC907
LC4032ZE-7TN48C

Clock IC
I2C Addr = (7'b1)101 010* (0x04)

EEPROM
I2C Addr = (7'b1)010 000* (0xA0)
R1EX24128BTAS0A

Apple CoProcessor
I2C Addr = 20h/21h(SEL4*Low)

APPLE COPROCESSOR

CLOCK IC

ETHERNET PHY
PHY
IC906
KSZ8051RNL

PHY ADDRESS=00001b
I/F : RMII

NETWORK

No replacement part available.
サービス部品供給なし

to DIGITAL 5/8

to DIGITAL 6/8

to DIGITAL 8/8

to DIGITAL 7/8

to OPERATION (2)_W4501

Page 131 H7

## NOTICE (model)

(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(E)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

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 |
| ⊘ | SEMI VARIABLE 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 |
| ◎ | POLYPROPYLENE FILM CAPACITOR |
| ◉ | SEMICONDUCTIVE CERAMIC CAPACITOR |

★ 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.

● ⚠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あります。

**IC907**: LC4032ZE-7TN48C
1.8 V in-system programmable ultra low power PLDs

**IC908**: 5V49EE503-027NLGI8
Clock synthesizer

**IC909**: R1EX24128BTAS0A
16 K word x 8-bit I2C interface EEPROM

**IC910**: MFI341S2164
IC digital

**IC914**: RP130Q181D-TR-F
Voltage regulator

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

**IC915**: RP130Q501D-TR-F
Voltage regulator

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

**IC916**: R1172H121D-T1-F
CMOS-based positive-voltage regulator IC

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable Pin |
| 2 | GND | Ground Pin |
| 3 | NC | No Connection |
| 4 | VDD | Input Pin |
| 5 | VOUT | Output Pin of Voltage Regulator |

**IC917**: SN74LVC1G17DCKR
Single schmitt-trigger buffer

| INPUT | OUTPUT |
|---|---|
| A | Y |
| H | H |
| L | L |

**IC905**: TC74LCX245FT
Low voltage octal bus transceiver with 5-V tolerant inputs and outputs

# DIGITAL 7/8

Destination Part List

| sXX | LOC | UCRTK4BGLF | U |
|---|---|---|---|
| s51 | IC94 | X | X83B8A0 TC75ET08FU |
| s52 | IC95 | X | XR6B0A0 TC75H08FU |
| s63 | R974 | X | RD45433 33 |
| s64 | R840 | X | RD45433 33 |
| s65 | R889 | X | RD45810 100K |
| s66 | R897 | RD45630 3K | RD45647 4.7K |
| s81 | IC927 | YD54010 CS230511-CZZR | X |
| s82 | C9281 | US62510 0.1/10[BJ] | X |
| s83 | R9292 | RD45710 10K | X |
| s84 | L9211 | WK60950 BKP1005HS680-T | X |
| s85 | C9265 | US63410 0.01/16[B] | X |
| s86 | C9282 | WJ93250 1/6.3 | X |
| s87 | R9307 | RD45433 33 | X |
| s88 | J9217 | X | RD45000 0 |
| s91 | R9421 | X | RD45410 10 |
| s92 | R9422 | X | RD45810 100K |
| s93 | Q9402 | X | WK78190 DTA043EUBTL |
| s94 | Q9401 | X | WK78230 DTC544EUBTL |

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 |
| ⊘ | SEMI VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

CAPACITOR

| REMARKS | PARTS NAME |
|---|---|
| ⊣⊢ | ELECTROLYTIC CAPACITOR |
| ⊗ | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| ◉ | CERAMIC TUBULAR CAPACITOR |
| ◎ | POLYESTER FILM CAPACITOR |
| ○ | POLYSTYRENE FILM CAPACITOR |
| Ⓘ | MICA CAPACITOR |
| Ⓟ | POLYPROPYLENE FILM CAPACITOR |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR |

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
(V)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(S)····· BRAZIL
(H)····· THAI

Page 130 J4
to FUNCTION (3)_W802

to DIGITAL 8/8

to DIGITAL 5/8
to 006.sht(u-com)

to DIGITAL 6/8
to 007.sht(NET)

to 009.sht(DOCK)

to DIGITAL 8/8

to 005.sht(HDMI Tx)
to DIGITAL 4/8

**No replacement part available.**
サービス部品供給なし

**IC924**: PCM9210PTR
216-kHz digital audio interface transceiver (DIX) with stereo ADC and routing

**IC923**: MX29LV160DBTI-70G
16 M-bit 3 V supply flash memory

**IC921:** D70YE101BRFP266
Floating-point digital signal processors

**IC922**: M12L64164A-5TG
1M x 16-bit x 4 banks synchronous DRAM

**IC927**: CS230011-CZZR
Clock multiplier

**IC926**: TC7WZ32FK (TE85L, F)
Dual 2-input OR gate

**IC928, 932**: TC7SH08FU
2-input AND gate

**IC929**: R1172H121D-T1-F
CMOS-based positive-voltage regulator IC

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable Pin |
| 2 | GND | Ground Pin |
| 3 | NC | No Connection |
| 4 | VDD | Input Pin |
| 5 | VOUT | Output Pin of Voltage Regulator |

**IC930**: RP130Q331D-TR-F
Voltage regulator

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

**IC931**: RP130Q501D-TR-F
Voltage regulator

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

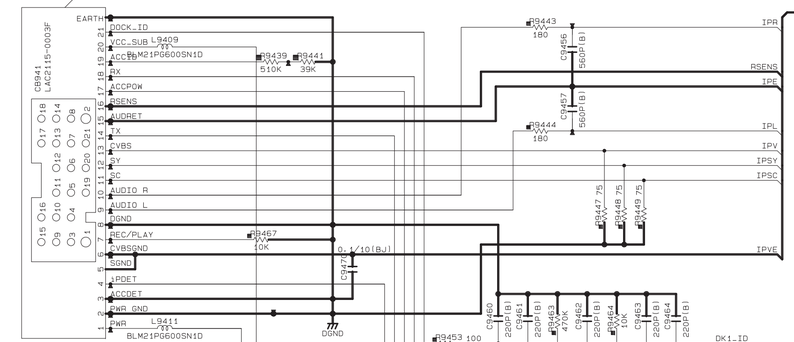
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

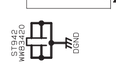
● ⚠印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
● 本回路図は標準回路図です。改良のため予告なく変更することがあります。

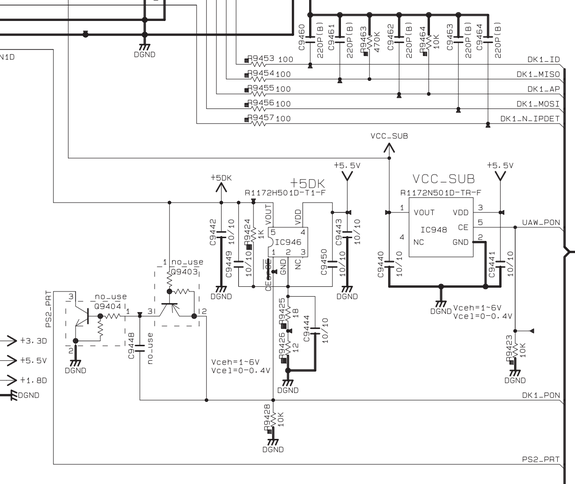
# DIGITAL 8/8

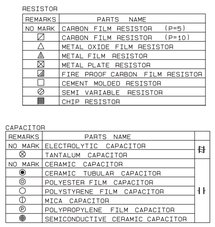
**No replacement part available.**
サービス部品供給なし

DOCK



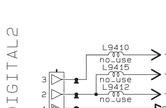







NOTICE (model)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(K)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE
(E)····· SOUTH EUROPE
(V)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(H)····· THAI

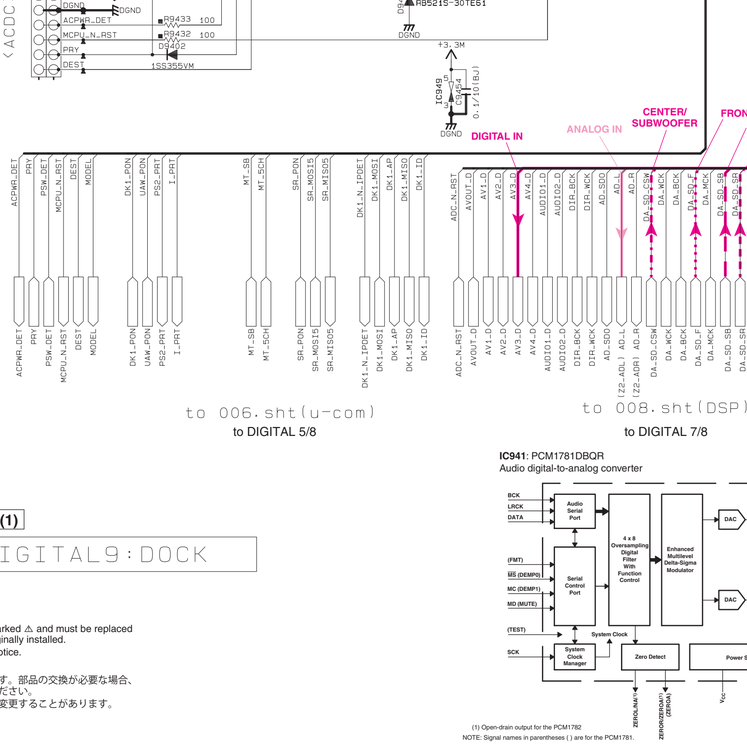



to DIGITAL2

(for service)




Page 133 M5
to POWER (1)_W2505

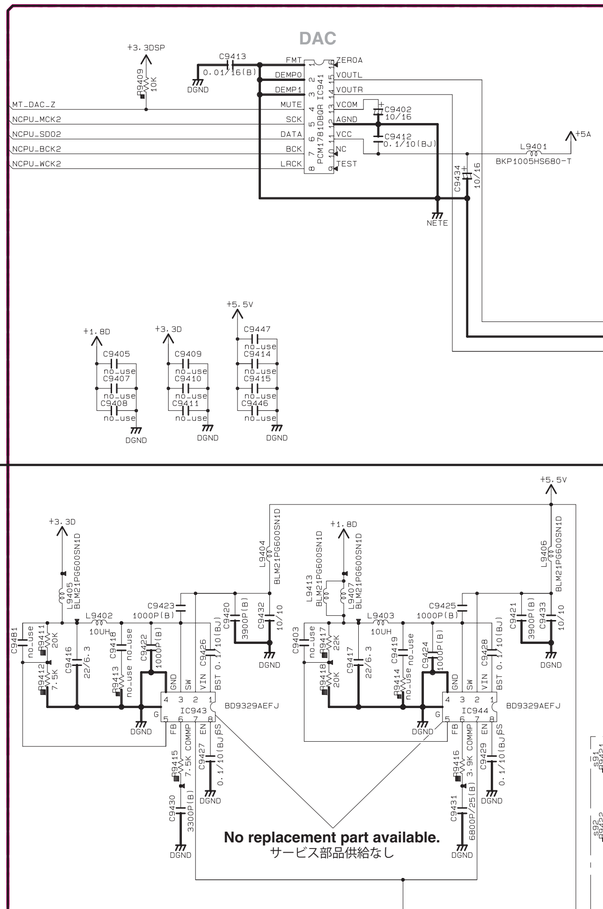



to 006.sht(u-com)
to DIGITAL 5/8

to 008.sht(DSP)
to DIGITAL 7/8

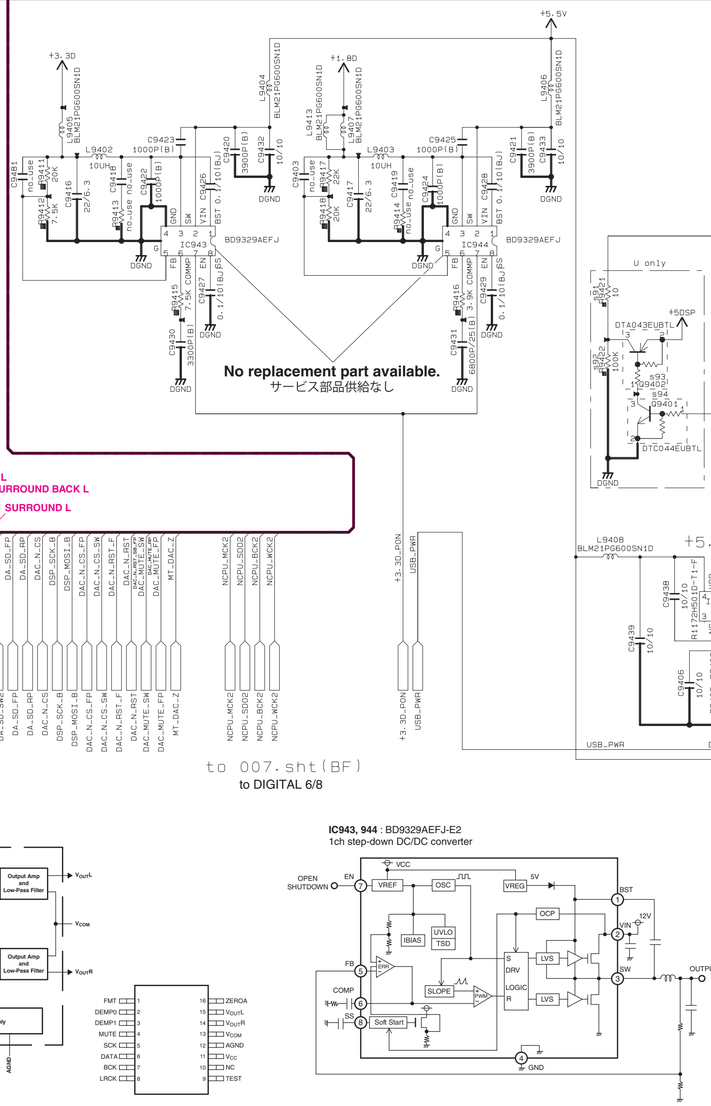
to 007.sht(BF)
to DIGITAL 6/8



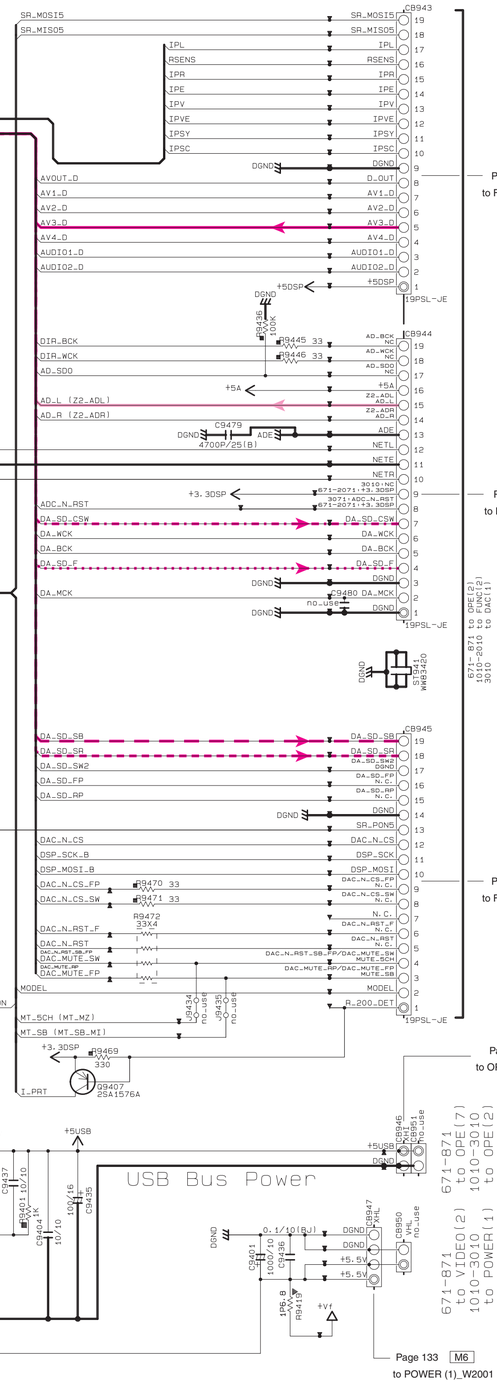







**No replacement part available.**
サービス部品供給なし



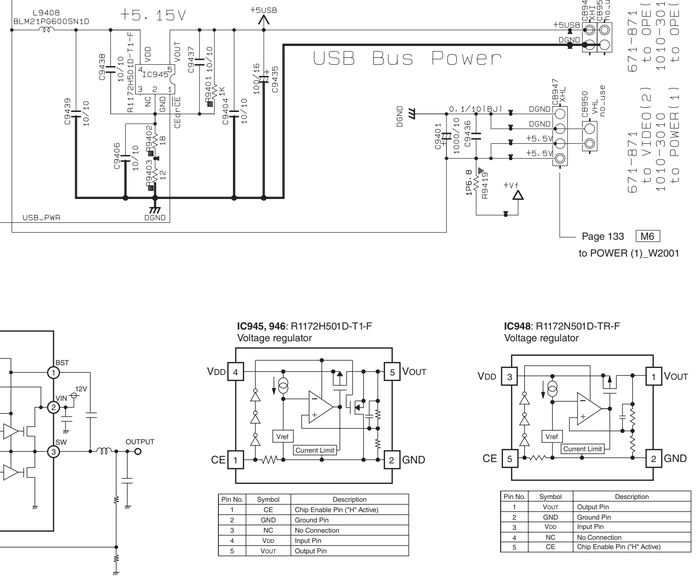

Page 130 B4
to FUNCTION (3)_CB801

Page 130 E4
to FUNCTION (3)_CB802

Page 130 G4
to FUNCTION (3)_CB804

Page 131 H7
to OPERATION (2)_W4502

671-871 to OPE(2)
1010-3010 to FUNC(2)
3010 to DAC(1)




Page 133 M6
to POWER (1)_W2001

to VIDEO(2) <ACDC> FA TEST

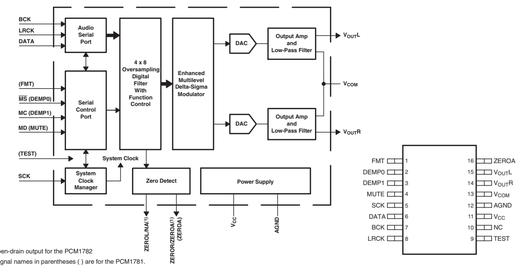
**DIGITAL (1)**

DIGITAL9:DOCK

★ 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.

● △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あります。

**IC941**: PCM1781DBQR
Audio digital-to-analog converter




(1) Open-drain output for the PCM1782
NOTE: Signal names in parentheses ( ) are for the PCM1781.

**IC943, 944** : BD9329AEFJ-E2
1ch step-down DC/DC converter

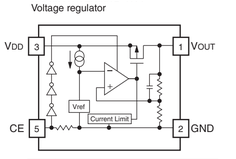



**IC945, 946**: R1172H501D-T1-F
Voltage regulator



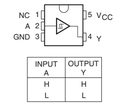

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable Pin ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | NC | No Connection |
| 4 | VDD | Input Pin |
| 5 | VOUT | Output Pin |

**IC948**: R1172N501D-TR-F
Voltage regulator




| Pin No. | Symbol | Description |
|---|---|---|
| 1 | VOUT | Output Pin |
| 2 | GND | Ground Pin |
| 3 | VDD | Input Pin |
| 4 | NC | No Connection |
| 5 | CE | Chip Enable Pin ("H" Active) |

**IC949**: SN74LVC1G17DCKR
Single schmitt-trigger buffer




| INPUT A | OUTPUT Y |
|---|---|
| H | H |
| L | L |

# FUNCTION 1/2

PHONO | AV 1 | AV 2 | AV 3 | AV 4 | AV OUT | AUDIO 1 (2 TV) | AUDIO 2 (3 CD) | AUDIO 3 | AUDIO 4 | MULTI CH INPUT: FRONT R L | SURROUND R L | SUR. BACK R L | SUB-WOOFRT | CENTER

PHONO EQ

ANALOG IN

IC741
YA361B0
R2A15220FP

PWS:9464

IC742
YA361B0
R2A15220FP

PWS:9464

FRONT L

SURROUND L

SURROUND BACK L

CENTER

SUBWOOFER

ZONE 2 ZONE OUT

FRONT

SURROUND

SUR. BACK (SINGLE)

SUBWOOFER

CENTER

PRE OUT

PRE-OUT

R.C.L.J:7001-7999
other:701-799

FUNCTION (1)

FUNC(1)

from FUNC(3)

Page 130 D10
to FUNCTION (3)_CB809

Page 130 E10
to FUNCTION (3)_CB810

Page 130 G10
to FUNCTION (3)_CB811

from DIGITAL(1)
Page 125 G9
to DIGITAL (1)_CB86

Page 132 H10
to MAIN (1)_W1043

Page 132 G10
to MAIN (2)_W1042

Page 131 H6
to OPERATION (2)_CB454

Page 135 H2
to VIDEO (1)_CB333

to OPE(3)

from VIDEO(1)

**IC741, 742**: R2A15220FP
8-channel electronic volume with 11 input selector and tone control

**IC701**: NJM2068MD-TE2
Dual operational amplifier

**IC713, 761, 762**: NJM4565M (TE1)
Dual operational amplifier

**IC724, 726–728**: LM833MX
Operational amplifier

**IC763**: BA15218F
Dual high slew rate,
low noise operational amplifier

★ 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.

● ⚠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あります。

RESISTOR

| REMARKS | PARTS NAME |
|---|---|
| NO MARK | CARBON FILM RESISTOR (1/4W) |
| ☑ | CARBON FILM RESISTOR (1/10W) |
| △ | METAL OXIDE FILM RESISTOR |
| ⊠ | METAL FILM RESISTOR |
| ◪ | METAL PLATE RESISTOR |
| ◪ | FIRE PROOF CARBON FILM RESISTOR |
| ▭ | CEMENT MOLDED RESISTOR |
| ⊘ | SEMI VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

CAPACITOR

| REMARKS | PARTS NAME |
|---|---|
| NO MARK | ELECTROLYTIC CAPACITOR |
| ⊗ | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| ◉ | CERAMIC TUBULAR CAPACITOR |
| ○ | POLYESTER FILM CAPACITOR |
| ① | POLYSTYRENE FILM CAPACITOR |
| ② | POLYPROPYLENE FILM CAPACITOR |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR |
| ⊕ | POLYPHENYLENE SULFIDE FILM CAPACITOR |

NOTICE (model)
(J)····· JAPAN
(U.S.A)····· U.S.A
(C)····· CANADA
(G)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE
(E)····· SOUTH EUROPE
(W)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(S)····· BRAZIL
(H)····· THAI

# FUNCTION 2/2

SIRIUS | AV 1 COAXIAL | AV 2 COAXIAL | AV 3 OPTICAL | AV 4 OPTICAL | AV OUT | AUDIO 1 OPTICAL | AUDIO 2 COAXIAL

to FUNC(3)

FUNCTION (2)

FUNC(2)

DIGITAL IN

| 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 |
| | SEMI VARIABLE 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 | |
| | POLYPROPYLENE FILM CAPACITOR | |
| | SEMICONDUCTIVE CERAMIC CAPACITOR | |
| | POLYPHENYLENE SULFIDE FILM CAPACITOR | |

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
(V)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(S)····· BRAZIL
(H)····· THAI

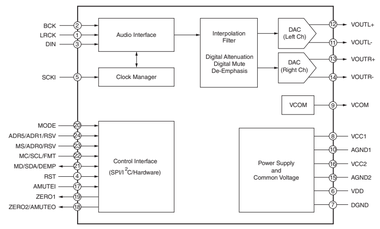
Destination Part List

| sXX | LOC | J | U | CRT | KABGLF |
|---|---|---|---|---|---|
| s1 | JK781 | X | VY26950 MD-58130-90 | X | X |
| s2 | C7803 C7805-7810 | X | US06222 220P(SL) | X | X |
| s3 | C7804 | X | US06310 1000P(B) | X | X |
| s4 | R7809 | X | RD35410 10 | X | X |
| s5 | R7807 R7808 | X | RD35433 33 | X | X |
| s6 | R7803 R7805 | X | RD35547 470 | X | X |
| s7 | R7804 R7805 | X | RD35810 100K | X | X |
| s8 | R7814 R7818 | X | MF31520 SAN-SAN | X | X |
| s9 | R782A R782B | MF30920 | X | MF30920 | MF30920 |
| s10 | J7801 J8004 | VN50000 | X | VN50000 | VN50000 |
| s11 | R7011 R7015 | RD35447 47 | RD35447 47 | RD35447 47 | RD35622 2.2K |
| s12 | C7006 C7012 | X | X | X | WJ60830 2200V/100 |
| s13 | R7223 R7224 | WQ07230 1P2.2 | MF35322 1/2P2.2 | WQ07230 1P2.2 | WQ07230 1P2.2 |

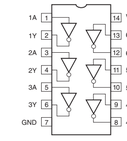
Destination Part List

| sXX | LOC | J | U | CRT | KABGLF |
|---|---|---|---|---|---|
| s69 | R7685 | X | WW96750 18 | WW96750 18 | WW96750 18 |
| s70 | C7622 | X | VP87270 C4488(S/T) | VP87270 C4488(S/T) | VP87270 C4488(S/T) |
| s71 | R7686 | X | RD35615 1.5K | RD35615 1.5K | RD35615 1.5K |
| s72 | R7687 | X | RD35510 100 | RD35510 100 | RD35510 100 |
| s73 | C7601 | X | WY16330 UDZV5.6B | WY16330 UDZV5.6B | WY16330 UDZV5.6B |
| s74 | C7641-7643 | X | UR06747 47/50 | UR06747 47/50 | UR06747 47/50 |

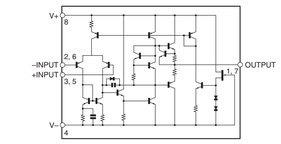
**IC812–815**: PCM1789PWR
24-bit, 192 kHz sampling, enhanced multi-level ΔΣ, stereo, audio digital-to-analog converter



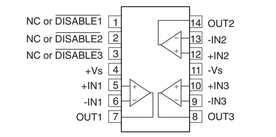

**IC781, 782**: TC74VHCU04FT
Hex inverters



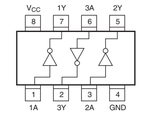

**IC801, 803**: NJM4565M (TE1)
Dual operational amplifier




**IC802**: FHP3350IM14X
Triple voltage feedback amplifier




**IC810**: TC7WHU04FU
Triple inverter




Page 128 M2 to DIGITAL (1)_CB943
Page 128 M3 to DIGITAL (1)_CB944
Page 128 M6 to DIGITAL (1)_CB945
Page 136 H5 to VIDEO (2)_W3503
Page 127 A4 to DIGITAL (1)_CB923
Page 131 H2 to OPERATION (2)_CB452
Page 134 M6 to VIDEO (1)_CB304
Page 129 B2 to FUNCTION (1)_CB701
Page 129 B4 to FUNCTION (1)_CB702
Page 129 B5 to FUNCTION (1)_CB703
to FUNC(2)
to FUNC(1)

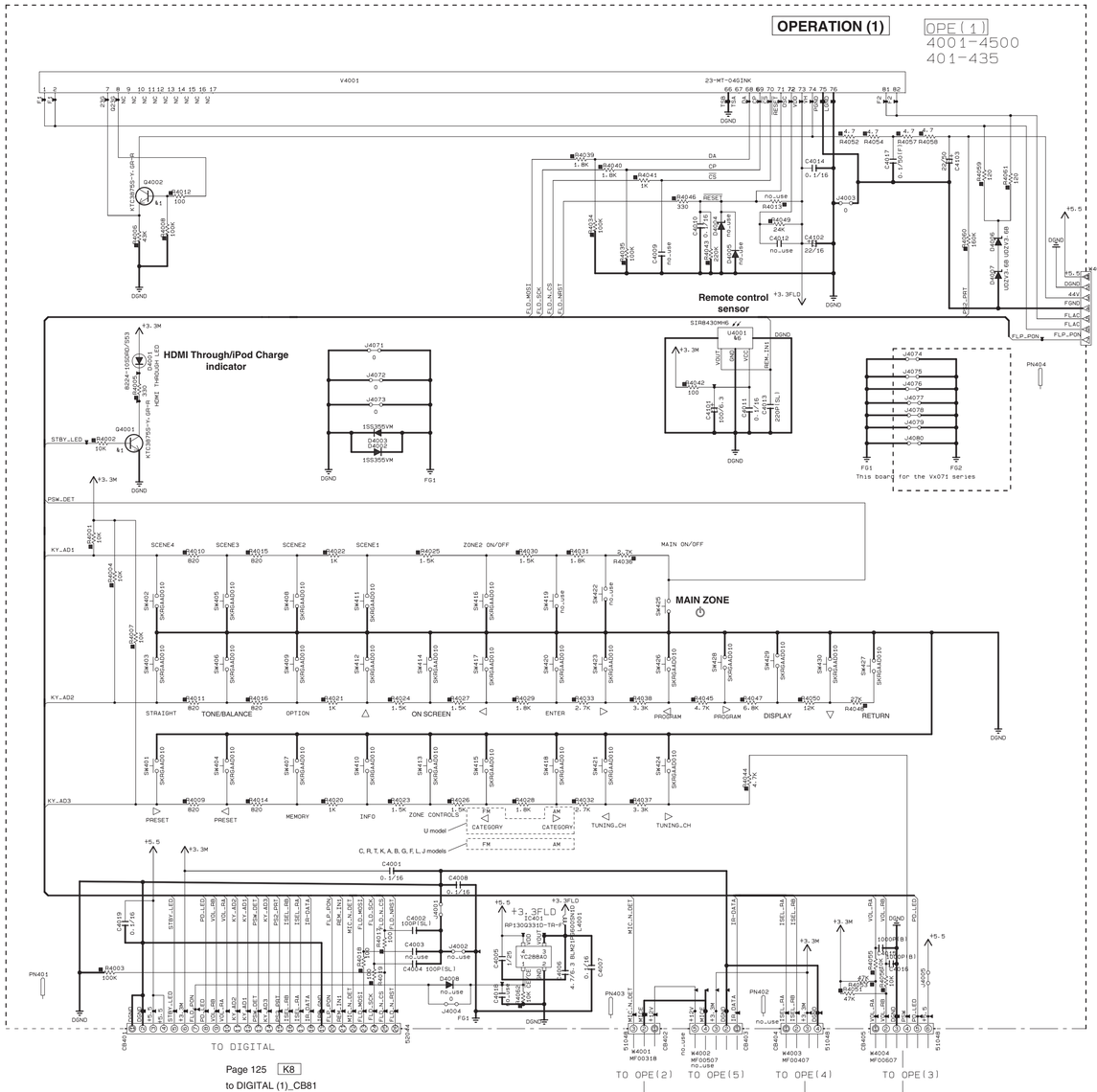
FUNCTION (3)

R,C,D,L,J:8001-8199
other:801-819
FUNC(3)

★ 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.

● ⚠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あります。

# OPERATION



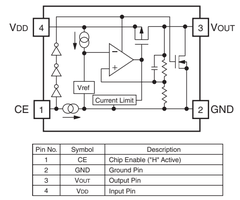

Key detection for A/D port
Key input (A/D) pull-up resistance 10 k-ohms

| Ohm | 0 | + 0.82 k | + 0.82 k | + 1.0 k | + 1.5 k | + 1.5 k | + 1.8 k | + 2.7 k |
|---|---|---|---|---|---|---|---|---|
| V | 0 – 0.125 | 0.125 – 0.358 | 0.358 – 0.577 | 0.577 – 0.828 | 0.828 – 1.078 | 1.078 – 1.299 | 1.299 – 1.535 | 1.535 – 1.777 |
| A/D conversion value (3.3 V=255) | 0 – 9 | 10 – 27 | 28 – 44 | 45 – 63 | 64 – 83 | 84 – 100 | 101 – 118 | 119 – 137 |
| KY_AD1 (139 pin of the microprocessor) | SCENE 4 | SCENE 3 | SCENE 2 | SCENE 1 | ZONE2 ON/OFF | – | – | MAIN ZONE ⏻ |

| Ohm | 0 | + 0.82 k | + 0.82 k | + 1.0 k | + 1.5 k | + 1.5 k | + 1.8 k | + 2.7 k | + 3.3 k | + 4.7 k | + 6.8 k | + 12.0 k | + 22.0 k |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V | 0 – 0.125 | 0.125 – 0.358 | 0.358 – 0.577 | 0.577 – 0.828 | 0.828 – 1.078 | 1.078 – 1.299 | 1.299 – 1.535 | 1.535 – 1.777 | 1.777 – 2.010 | 2.010 – 2.241 | 2.241 – 2.476 | 2.476 – 2.709 | 2.709 – 2.940 |
| A/D conversion value (3.3 V=255) | 0 – 9 | 10 – 27 | 28 – 44 | 45 – 63 | 64-83 | 84 – 100 | 101 – 118 | 119 – 137 | 138 – 155 | 156 – 173 | 174 – 191 | 192 – 209 | 210 – 227 |
| KY_AD2 (138 pin of the microprocessor) | STRAIGHT | TONE BALANCE | OPTION | △ | ON SCREEN | ◁ | ENTER | ▷ | PROGRAM < | PROGRAM > | DISPLAY | ▽ | RETURN |

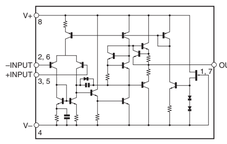
| Ohm | 0 | + 0.82 k | + 0.82 k | + 1.0 k | + 1.5 k | + 1.5 k | + 1.8 k | + 2.7 k | + 3.3 k | + 4.7 k |
|---|---|---|---|---|---|---|---|---|---|---|
| V | 0 – 0.125 | 0.125 – 0.358 | 0.358 – 0.577 | 0.577 – 0.828 | 0.828 – 1.078 | 1.078 – 1.299 | 1.299 – 1.535 | 1.535 – 1.777 | 1.777 – 2.010 | 2.010 – 2.241 |
| A/D conversion value (3.3 V=255) | 0 – 9 | 10 – 27 | 28 – 44 | 45 – 63 | 64 – 83 | 84 – 100 | 101 – 118 | 119 – 137 | 138 – 155 | 156 – 173 |
| KY_AD3 (14 pin of the IC902) | PRESET > | PRESET < | MEMORY | INFO | ZONE CONTROLS | FM | AM | TUNING/CH << | TUNING/CH >> | PURE DIRECT |

**IC401**: RP130Q331D-TR-F
Voltage regulator




| Pin No. | Symbol | Description |
|---|---|---|
| 1 | CE | Chip Enable ("H" Active) |
| 2 | GND | Ground Pin |
| 3 | VOUT | Output Pin |
| 4 | VDD | Input Pin |

**IC451**: NJM4565M (TE1)
Dual operational amplifier




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
(V)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(S)····· BRAZIL
(H)····· THAI

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 |
| Ⓟ | POLYPROPYLENE FILM CAPACITOR |
| ◉ | SEMICONDUCTIVE CERAMIC CAPACITOR |
| Ⓢ | POLYPHENYLENE SULFIDE FILM CAPACITOR |

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 |
| ⊘ | SEMI VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

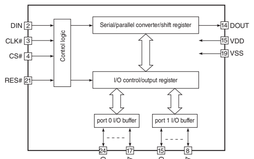
VFD MIC AMP
KEY INPUT INPUT SELECTOR
V-AUX VOLUME
FRONT HDMI IR RECEIVER for Learing
(IDLING ADJUSTMENT JIG)

★ 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.

● ⚠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あります。

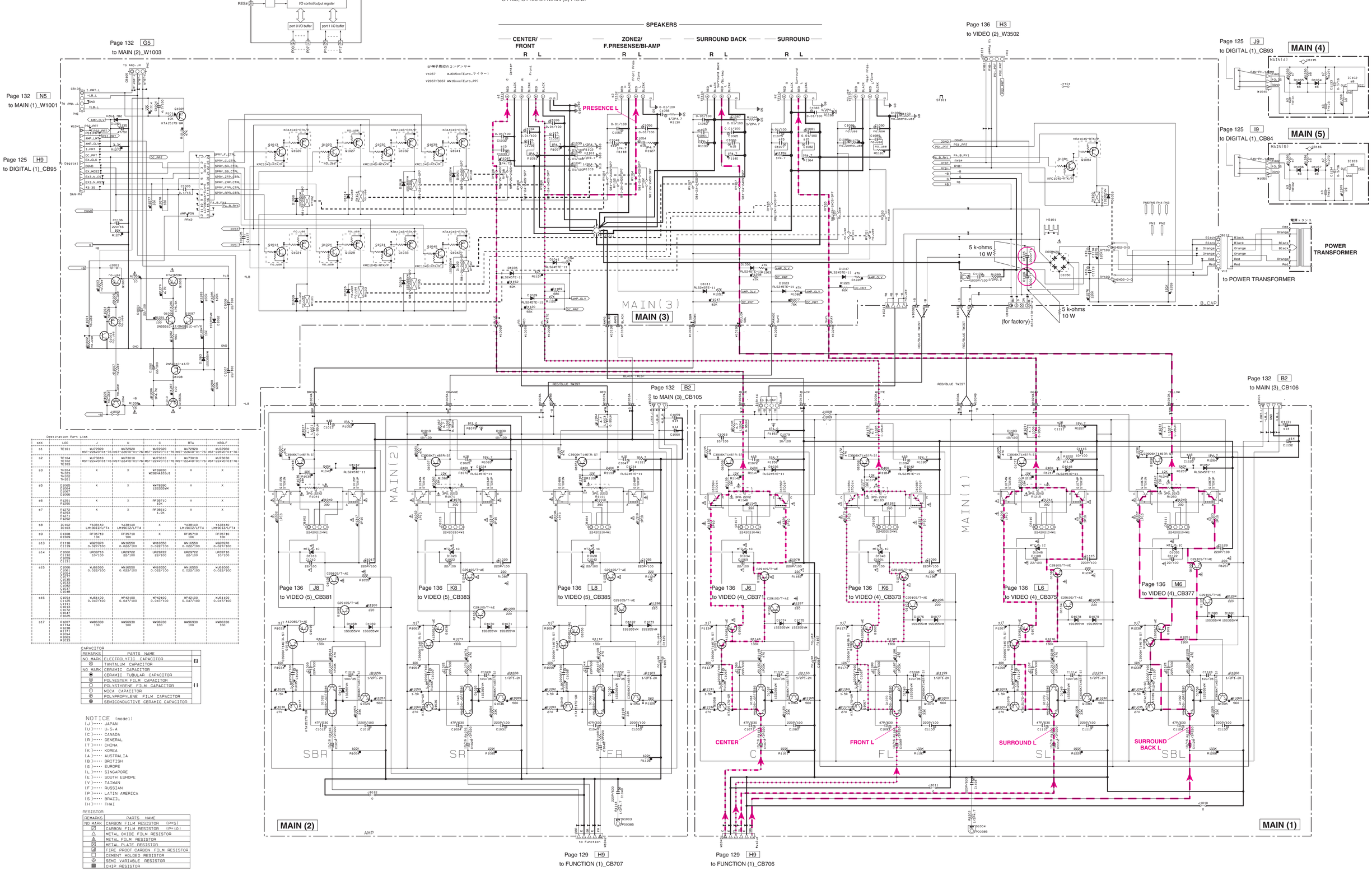
# MAIN

**IC101**: LC709004A-TLM-E
I/O-expander for microcontroller




**Notes)**
**Safety measures**
- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each.
  C1105, C1106 on MAIN (3) P.C.B.

**注意 )**
**安全対策**
- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。修理作業前に放電用抵抗 (5 kΩ/10 W) を下記の各コンデンサの端子間に接続して放電してください。放電所用時間は各々約 30 秒間です。
  MAIN (3) P.C.B. の C1105、C1106




Destination Part List

| $XX | LOC | J | U | C | RTA | KBGLF |
|---|---|---|---|---|---|---|
| s1 | TE101 | WU72920 (MST-226VD-01-76) | WU72920 (MST-226VD-01-76) | WU72920 (MST-226VD-01-76) | WU72920 (MST-226VD-01-76) | WU72960 (MST-226VD-01-76) |
| s2 | TE104<br>TE152<br>TE103 | WU73010 (MST-224XD-01-76) | WU73010 (MST-224XD-01-76) | WU73010 (MST-224XD-01-76) | WU73010 (MST-224XD-01-76) | WU73030 (MST-224XD-01-76) |
| s3 | TH104<br>TH102<br>TH101 | X | X | WT69830<br>WCB2N4153J1 | X | X |
| s5 | D1065<br>D1066<br>D1067<br>D1066 | X | X | WW78390<br>1SS355VM | X | X |
| s6 | R1291<br>R1290 | X | X | RF35710<br>10K | X | X |
| s7 | R1272<br>R1271<br>R1292 | X | X | RF35610<br>1.0K | X | X |
| s8 | IC102<br>IC103 | YA3814G<br>LM1972CFT4 | YA3814G<br>LM1972CFT4 | X | YA3814G<br>LM1972CFT4 | YA3814G<br>LM1972CFT4 |
| s9 | R1308<br>R1309 | RF35710<br>10K | RF35710<br>10K | X | RF35710<br>10K | RF35710<br>10K |
| s13 | C1118<br>C1119 | WG20970<br>0.027/100 | WN16550<br>0.022/100 | WN16550<br>0.022/100 | WN16550<br>0.022/100 | WG20970<br>0.027/100 |
| s14 | C1060<br>C1130<br>C1059<br>C1131 | UR39710<br>10/100 | UR29722<br>22/100 | UR29722<br>22/100 | UR29722<br>22/100 | UR39710<br>10/100 |
| s15 | C1066<br>C1081<br>C1054<br>C1077<br>C1035<br>C1082<br>C1037<br>C1048 | WJ61060<br>0.022/100 | WN16550<br>0.022/100 | WN16550<br>0.022/100 | WN16550<br>0.022/100 | WJ61060<br>0.022/100 |
| s16 | C1094<br>C1125<br>C1111<br>C1072<br>C1032<br>C1047<br>C1025 | WJ61100<br>0.047/100 | WP42100<br>0.047/100 | WP42100<br>0.047/100 | WP42100<br>0.047/100 | WJ61100<br>0.047/100 |
| s17 | R1207<br>R1134<br>R1238<br>R1171<br>R1084<br>R1033 | KW86330<br>150 | KW96930<br>150 | KW96930<br>150 | KW96930<br>150 | KW86330<br>150 |

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 | |
| ⓟ | POLYPROPYLENE FILM CAPACITOR | |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR | |

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
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

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 |
| ⊘ | SEMI VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

★ 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.

● △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あります。

# POWER

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 | |
| Ⓟ | POLYPROPYLENE FILM CAPACITOR | |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR | |
| Ⓢ | POLYPHENYLENE SULFIDE FILM CAPACITOR | |

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 |
| ⊘ | SEMI VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

NOTICE (model)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(E)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE
(E)····· SOUTH EUROPE
(V)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(S)····· BRAZIL
(H)····· THAI

Destination Part List

| sXX | LOC | J | U | C | R | T | K | A | BGF | L |
|---|---|---|---|---|---|---|---|---|---|---|
| s202 | F2003 | WQ21120 10A125V | WQ21120 10A125V | WQ21120 10A125V | WQ21120 10A125V | WB76060 T6.3AL250V | WB76060 T6.3AL250V | WB76060 T6.3AL250V | WB76060 T6.3AL250V | WB76060 T6.3AL250V |
| s203 | C2001 | WU53660 0.047/630 | WU53660 0.047/630 | WU53660 0.047/630 | WU53660 0.047/630 | WQ85240 0.022/630 | WQ85240 0.022/630 | WQ85240 0.022/630 | WQ85240 0.022/630 | WQ85240 0.022/630 |
| s204 | C2003 | WU53660 0.047/630 | WU53660 0.047/630 | WU53660 0.047/630 | WU53660 0.047/630 | WQ85240 0.022/630 | WQ85240 0.022/630 | WQ85240 0.022/630 | WQ85240 0.022/630 | WQ85240 0.022/630 |
| s206 | SW250 | X | X | X | WV38290 SL14 | X | X | X | X | X |
| s207 | CB253 | X | X | X | WN10300 TP00351-31 | X | X | X | X | X |
| s208 | CB254 | X | X | X | WN10300 TP00351-31 | X | X | X | X | X |
| s209 | F2500 | X | X | X | WB76060 T6.3AL250V | X | X | X | X | X |
| s210 | CB255 | X | X | X | V937790 B4P7S-VH | X | X | X | X | X |
| s211 | R2043 | RD35000 0 | RD35612 1.2K | RD35627 2.7K | RD35647 4.7K | RD35668 6.8K | RD35710 10K | RD35715 15K | RD35747 47K | RD35810 100K |

Destination Part List

| sXX | LOC | J | U | C | R | T | K | A | BGF | L |
|---|---|---|---|---|---|---|---|---|---|---|
| s213 | R2005 R2006 | RD15847 470K | RD15847 470K | RD15847 470K | RD15847 470K | RD15910 1M | RD15910 1M | RD15910 1M | RD15910 1M | RD15910 1M |
| s214 | C2016 | WU89870 390/200 | WU89870 390/200 | WU89870 390/200 | WU46420 390/400 | WU89880 100/400 | WU89880 100/400 | WU89880 100/400 | WU89880 100/400 | WU89880 100/400 |
| s215 | R2025 | WU98540 3P0.27 | WU98540 3P0.27 | WU98540 3P0.27 | WU98540 3P0.27 | WQ52610 3P0.33 | WQ52610 3P0.33 | WQ52610 3P0.33 | WQ52610 3P0.33 | WQ52610 3P0.33 |
| s216 | C2046 | VS87770 0.22/250 | X | X | X | X | X | X | X | X |
| s218 | C2007 | VE15040 0.068/250 | WR97740 0.022/250 | WR97740 0.022/250 | WR97740 0.022/250 | WR97740 0.022/250 | WR97740 0.022/250 | WR97740 0.022/250 | WR97740 0.022/250 | WR97740 0.022/250 |
| s220 | C2037 C2023 | X | US06322 2200P(B) | US06322 2200P(B) | US06322 2200P(B) | US06322 2200P(B) | US06322 2200P(B) | US06322 2200P(B) | US06322 2200P(B) | US06322 2200P(B) |
| s221 | R2533 R2534 | RD15739 39K | RD15739 39K | RD15739 39K | RD15739 39K | RD15812 120K | RD15812 120K | RD15812 120K | RD15812 120K | RD15812 120K |
| s225 | J2529 J2536 | X | VN50000 | VN50000 | VN50000 | VN50000 | VN50000 | VN50000 | VN50000 | VN50000 |
| s226 | R2545 | RD35722 22K | RD35722 22K | RD35722 22K | RD35718 18K | RD35712 12K | RD35712 12K | RD35712 12K | RD35712 12K | RD35712 12K |

TRANSFORMER Number

| MODEL | J | UC | R | AL | TK | BGF |
|---|---|---|---|---|---|---|
| RX-A1010 | YD514 | YD515 | YD516 | YD517 | YD518 | YD519 |

**POWER (2)** R model

R Only

110-120V 220-230V

VOLTAGE SELECTOR

Blue/115V
Orange/115V
Yellow/0V
Red/115V
Purple/0V
Gray/0V
B4P7S-VH

to POWER TRANSFORMER

**POWER (4)**

PN201 PN202

**POWER (3)**

PRIMARY

SECONDARY

to POWER TRANSFORMER

TRANSFORMER

AC IN

POWER CORD

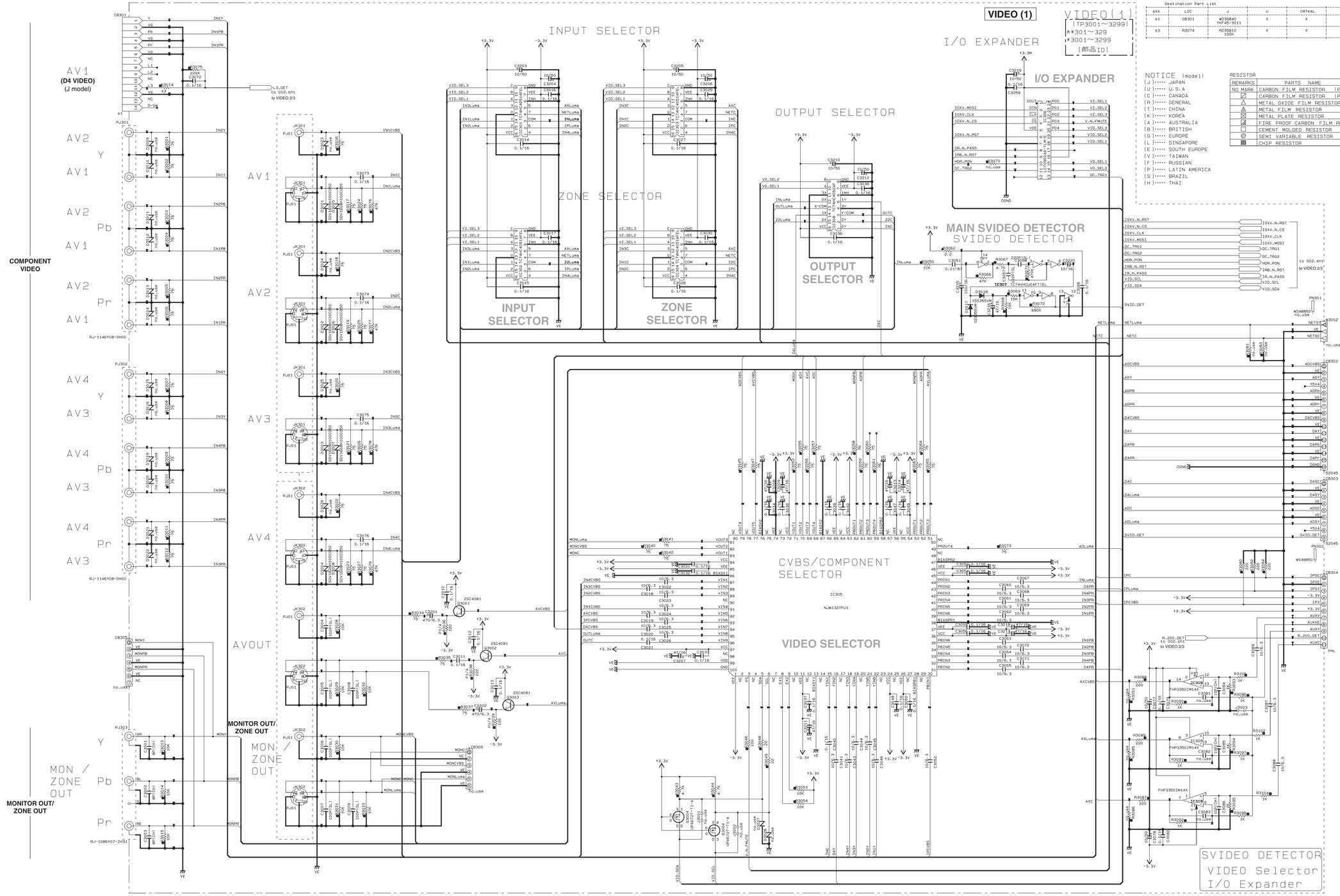
TE201 R-30190(26)

**POWER (1)**

RX-V1067はC2002を使用
RX-V1071はC2051を使用

C2051 0.01/250
T2002 no.use
RY201 DLS5D1-01M10.25
CB204 CB205 TP00351-31
S202 S203 S204
C2001 C2003
R2001 1/4P4.7K R2002 1/4P4.7K
J2002 no.use
37UH
L2001 J2003 no.use
F2001 T2.0A250V
C2004 0.068/250
C2005 1000P/250
L2002 36MH
C2007 S218
TH201 D2001 D5SBA60
ST201
ST202 C2009 no.use
S201 S216 S217 S218
R2018 150/2W R2019 150/2W R2020 150/2W
C2018 1000P/630
D2004 PBKE200A
S213 S214 S215
5 k-ohms 10 W
C2019 1000P/250
T2001
P1 P2 P3 P4 P5 P6
S1 S2
ETS29AZ326AD
SUB-TRANSFORMER
L2003 BL02RN1R2P1A
C2020 1000P/250
L2009 HF57BB3.5X1.5X1
HS201 PUD9C-30
D2019 RBV2510
L2010 HF57BB3.5X1.5X1
WE77440
C2040 no.use
R2041 1K
R2042 1K
C2042 no.use
R2043 no.use
R2044 no.use
C2041 no.use
R2539 no.use
R2540 no.use
R2541 no.use
R2542 no.use
C2050 no.use
R2533 2.7K
C2021 820/35
C2024 820/35
C2026 820/35
C2027 no.use
C2037 no.use
J2529 S225
J2530 S220
G2001 TP00385
+5.5
R2538 0
R2537 no.use
R2536 100K
R2535 1K
C2028 20/16
C2032 0.01(B)
C2047 1000P(B)
C2052 1/10
C2053 0.1/16
C2054 0.1/16
C2055 0.1/16
C2056 0.1/16
C2057 0.1/16
R2064 2.2K
R2065 2.2K
R2051 0
R2043 s211
DEST
PRY
MCPU_N_RST
ACPWR_DET
DGND
+3.3M
J2514 0
J2515 0
L2006 no.use
L2007 no.use
W2505
C2041 no.use
J2513 no.use
R2044 1.8K
R2045 0
R2046 1.5K
R2047 no.use
R2048 330
R2049 1K
C2033 0.1/16
C2034 no.use
C2035 220/25
C2036 220/25
C2042 0.1/16
C2043 no.use
L2004 2.3UH
J2504 no.use
J2505 no.use
J2506 no.use
L2005 34UH
J2507 no.use
J2508 no.use
J2509 no.use
J2510 no.use
J2511 no.use
J2512 no.use
+5.5V
DGND
SCN-XH
W2506
W2001
RX-V1071にて使用
Page 136 G8
to VIDEO (3)_CB361
Page 128 M8
to DIGITAL (1)_CB947
Page 128 B7
to DIGITAL (1)_CB942
IC202 TLP781(D4-GR)
D2009 1SS355VM
D2008 1SS355VM
D2011 1SS355VM
D2012 1SS355VM
D2013 1SS355VM
D2014 1SS355VM
D2015 1SS355VM
Q2003 DTC144EKA
Q2014 DTA114EKA
D2034 1SS355VM
R2034 100
R2035 100
R2037 470
R2036 100K
C2031 100P
C2032 1/50
C2033 1/50
C2022 0.1/16
C2023 0.1/16
R2022 1K
R2023 1K
C2044 0.1/16
C2045 1/10
Q2011 DTA114EKA
Q2012 DTC114EKA
R2011 1K
R2012 1K
C2011 0.1/16
C2012 0.1/16
C2013 0.1/16
C2014 0.1/16
C2015 0.1/16
C2016 0.1/16
C2017 0.1/16
C2018 0.1/16
C2019 0.1/16
C2020 0.1/16
C2021 0.1/16
C2022 0.1/16
C2023 0.1/16
C2024 0.1/16
C2025 0.1/16
C2026 0.1/16
C2027 0.1/16
C2028 0.1/16
C2029 0.1/16
C2030 0.1/16
C2031 0.1/16
C2032 0.1/16
C2033 0.1/16
C2034 0.1/16
C2035 0.1/16
C2036 0.1/16
C2037 0.1/16
C2038 0.1/16
C2039 0.1/16
C2040 0.1/16
C2041 0.1/16
C2042 0.1/16
C2043 0.1/16
C2044 0.1/16
C2045 0.1/16
C2046 0.1/16
C2047 0.1/16
C2048 0.1/16
C2049 0.1/16
C2050 0.1/16
C2051 0.1/16
C2052 0.1/16
C2053 0.1/16
C2054 0.1/16
C2055 0.1/16
C2056 0.1/16
C2057 0.1/16
R2024 4.7K
R2025 390/2W
R2026 0.27/2W
R2027 560
R2028 10K
R2029 15
R2030 33K
R2031 33K
R2032 270K
R2033 470K
R2034 4.7K
R2035 1K
R2036 3.9K
R2037 1K
R2038 6.8K
R2039 10K
R2040 3.9K
R2041 1K
R2042 27K
R2043 3.6K
R2044 4.7K
R2045 4.7K
R2046 4.7K
R2047 4.7K
R2048 4.7K
R2049 4.7K
R2050 4.7K
R2051 0
R2052 4.7K
R2053 4.7K
R2054 4.7K
R2055 4.7K
R2056 4.7K
R2057 4.7K
R2058 4.7K
R2059 4.7K
R2060 4.7K
R2061 4.7K
R2062 4.7K
R2063 4.7K
R2064 2.2K
R2065 2.2K
R2066 2.2K
R2067 2.2K
R2068 2.2K
R2069 2.2K
R2070 2.2K
R2071 2.2K
R2072 2.2K
R2073 2.2K
R2074 2.2K
R2075 2.2K
R2076 2.2K
R2077 2.2K
R2078 2.2K
R2079 2.2K
R2080 2.2K
R2081 2.2K
R2082 2.2K
R2083 2.2K

# VIDEO 1/3




Destination Part List

| SXX | LOC | J | U | CRTKAL | BGF |
|---|---|---|---|---|---|
| s1 | CB301 | WD39840 RNF45-3011 | X | X | X |
| s3 | R3074 | RD35810 100K | X | X | X |

NOTICE (model)
(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(B)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

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 |
| | SEMI VARIABLE RESISTOR |
| | CHIP RESISTOR |

CAPACITOR

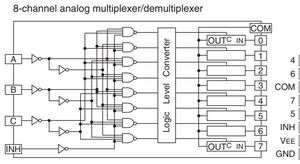
| REMARKS | PARTS NAME |
|---|---|
| NO MARK | ELECTROLYTIC CAPACITOR |
| | TANTALUM CAPACITOR |
| NO MARK | CERAMIC CAPACITOR |
| | CERAMIC TUBULAR CAPACITOR |
| | POLYESTER FILM CAPACITOR |
| | POLYSTYRENE FILM CAPACITOR |
| | MICA CAPACITOR |
| | POLYPROPYLENE FILM CAPACITOR |
| | SEMICONDUCTIVE CERAMIC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

Page 122 B1
to DIGITAL (1)_CB21

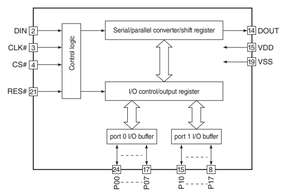
Page 122 A1
to DIGITAL (1)_CB22

Page 130 K4
to FUNCTION (3)_W801

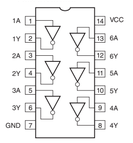
**IC301–304**: TC74HC4051AFEL
8-channel analog multiplexer/demultiplexer



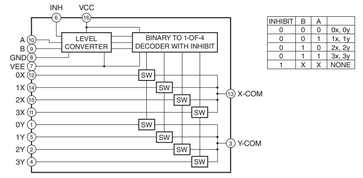

**IC306**: LC709004A-TLM-E
I/O-expander for microcontroller




**IC307**: TC74VHCU04FT
Hex inverters

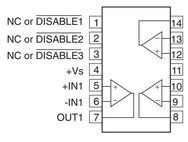



**IC308**: TC74HC4052AF
Analog multiplexer/demultiplexer

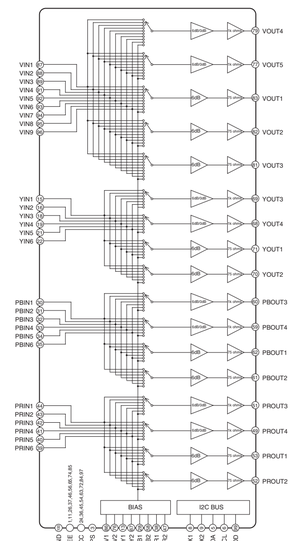



| INHIBIT | B | A | |
|---|---|---|---|
| 0 | 0 | 0 | 0x, 0y |
| 0 | 0 | 1 | 1x, 1y |
| 0 | 1 | 0 | 2x, 2y |
| 0 | 1 | 1 | 3x, 3y |
| 1 | X | X | NONE |

**IC309**: FHP3350IM14X
Triple voltage feedback amplifier



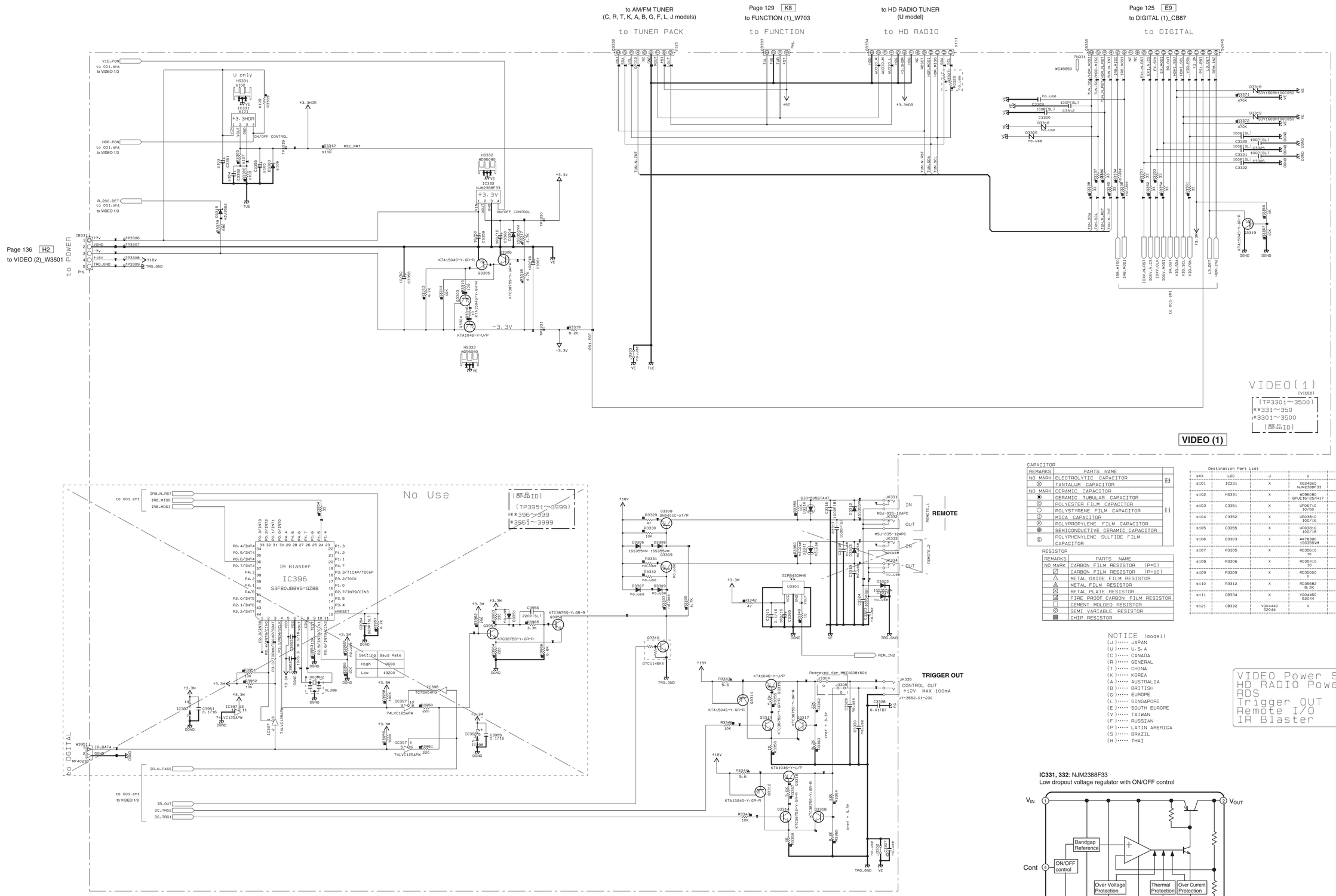

**IC305**: NJW1327FU1
Multi input SD/HD video interface with I²C control




★ 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.

● ⚠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あります。

## VIDEO 2/3




CAPACITOR

| REMARKS | PARTS NAME | |
|---|---|---|
| NO MARK | ELECTROLYTIC CAPACITOR | H |
| ⊗ | TANTALUM CAPACITOR | |
| NO MARK | CERAMIC CAPACITOR | H |
| ◉ | CERAMIC TUBULAR CAPACITOR | |
| ◎ | POLYESTER FILM CAPACITOR | |
| ○ | POLYSTYRENE FILM CAPACITOR | |
| Ⓘ | MICA CAPACITOR | |
| Ⓟ | POLYPROPYLENE FILM CAPACITOR | |
| ▣ | SEMICONDUCTIVE CERAMIC CAPACITOR | |
| Ⓢ | POLYPHENYLENE SULFIDE FILM CAPACITOR | |

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 |
| ⊘ | SEMI VARIABLE RESISTOR |
| ▩ | CHIP RESISTOR |

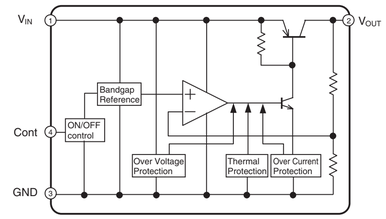
Destination Part List

| sXX | LOC | J | U | CRTKAL | BGF |
|---|---|---|---|---|---|
| s101 | IC331 | X | X6248A0 NJM2388F33 | X | X |
| s102 | HS331 | X | W96080 BPUE16-25/H17 | X | X |
| s103 | C3351 | X | UR0E710 10/50 | X | X |
| s104 | C3352 | X | UR03910 100/16 | X | X |
| s105 | C3355 | X | UR03810 100/16 | X | X |
| s106 | D3303 | X | WK78330 1SS355VM | X | X |
| s107 | R3305 | X | RD35610 1K | X | X |
| s108 | R3306 | X | RD35410 10 | X | X |
| s109 | R3309 | X | RD35000 0 | X | X |
| s110 | R3312 | X | RD35682 8.2K | X | X |
| s111 | CB334 | X | V204460 52044 | X | X |
| s121 | CB332 | V204440 52044 | X | V204440 52044 | V204440 52044 |

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
(V)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(S)····· BRAZIL
(H)····· THAI

VIDEO Power Supply
HD RADIO Power Supply
RDS
Trigger OUT
Remote I/O
IR Blaster

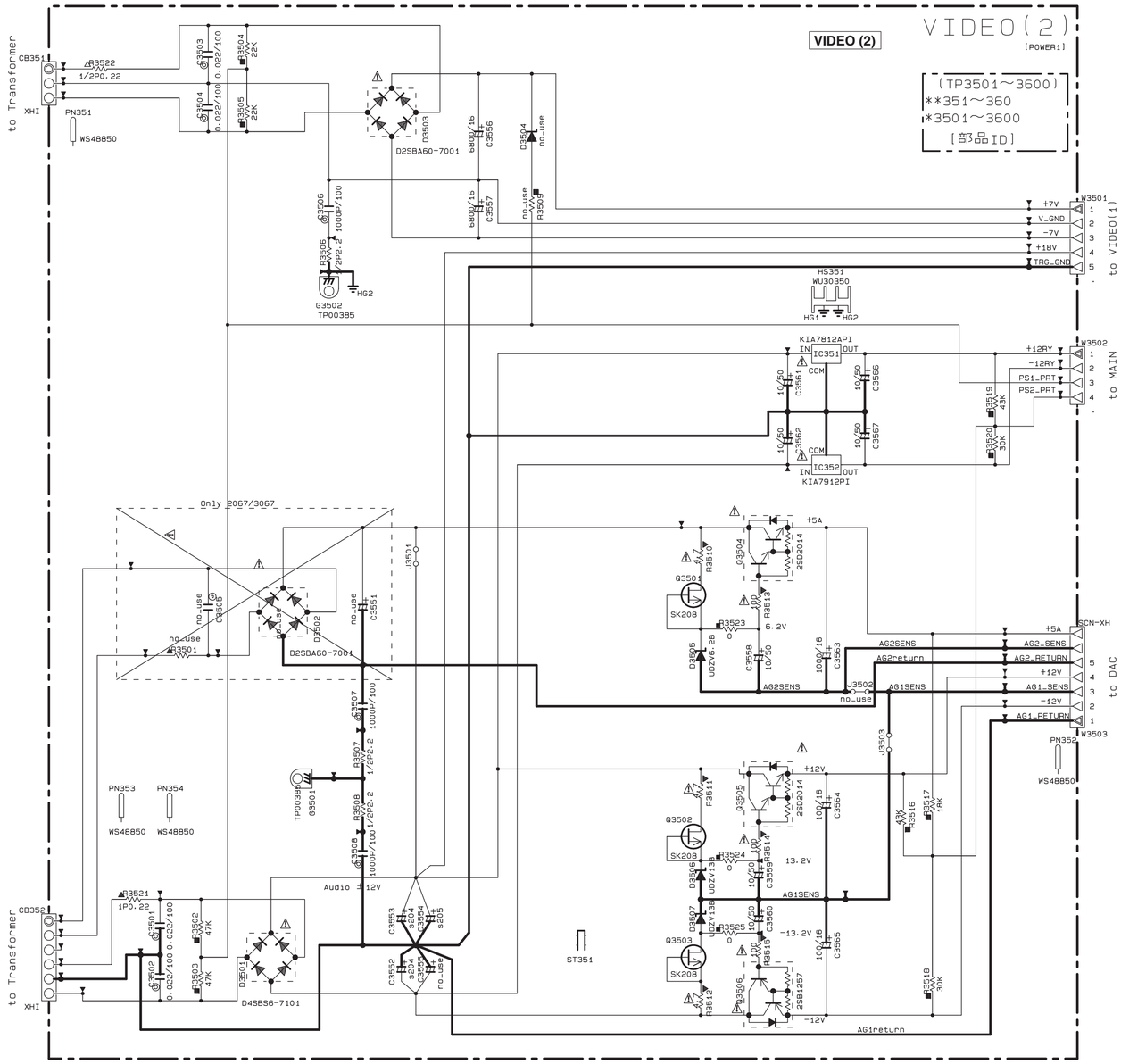
**IC331, 332**: NJM2388F33
Low dropout voltage regulator with ON/OFF control




★ 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.

● △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あります。

# VIDEO 3/3



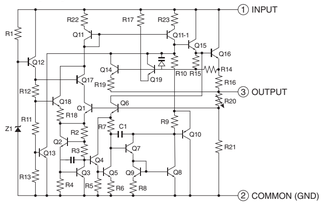

| Destination Part List | | | | | |
|---|---|---|---|---|---|
| sXX | LOC | J | U | CRTKAL | BGF |
| s204 | C3553<br>C3552 | WQ78540<br>6800/25 | UR04968<br>6800/25 | UR04968<br>6800/25 | WQ78540<br>6800/25 |
| s205 | C3554<br>C3555 | WR13360<br>3300/25 | UR04933<br>3300/25 | UR04933<br>3300/25 | WR13360<br>3300/25 |

| 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 |
| ⓟ | POLYPROPYLENE FILM CAPACITOR |
| ● | SEMICONDUCTIVE CERAMIC CAPACITOR |
| ⓢ | POLYPHENYLENE SULFIDE FILM CAPACITOR |

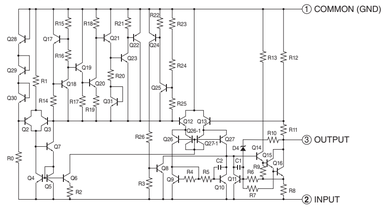
| RESISTOR | |
|---|---|
| REMARKS | PARTS NAME |
| NO MARK | CARBON FILM RESISTOR (P=5) |
| ▯ | CARBON FILM RESISTOR (P=10) |
| △ | METAL OXIDE FILM RESISTOR |
| ▲ | METAL FILM RESISTOR |
| ⊠ | METAL PLATE RESISTOR |
| ▟ | FIRE PROOF CARBON FILM RESISTOR |
| ▭ | CEMENT MOLDED RESISTOR |
| ⊘ | SEMI VARIABLE RESISTOR |
| ■ | CHIP RESISTOR |

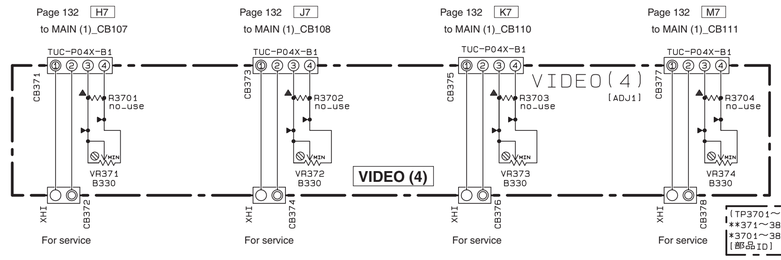
NOTICE (model)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE
(E)····· SOUTH EUROPE
(V)····· TAIWAN
(F)····· RUSSIAN
(P)····· LATIN AMERICA
(S)····· BRAZIL
(H)····· THAI

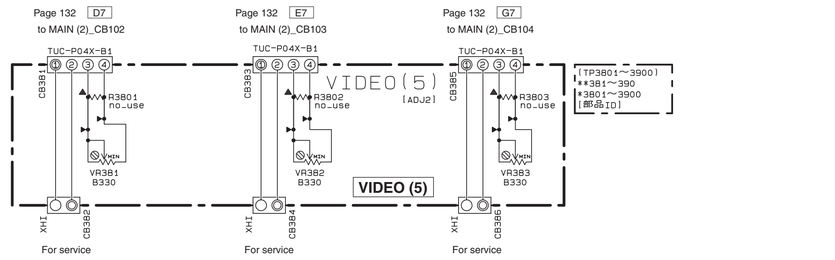
**IC351**: KIA7812API
Voltage regulator

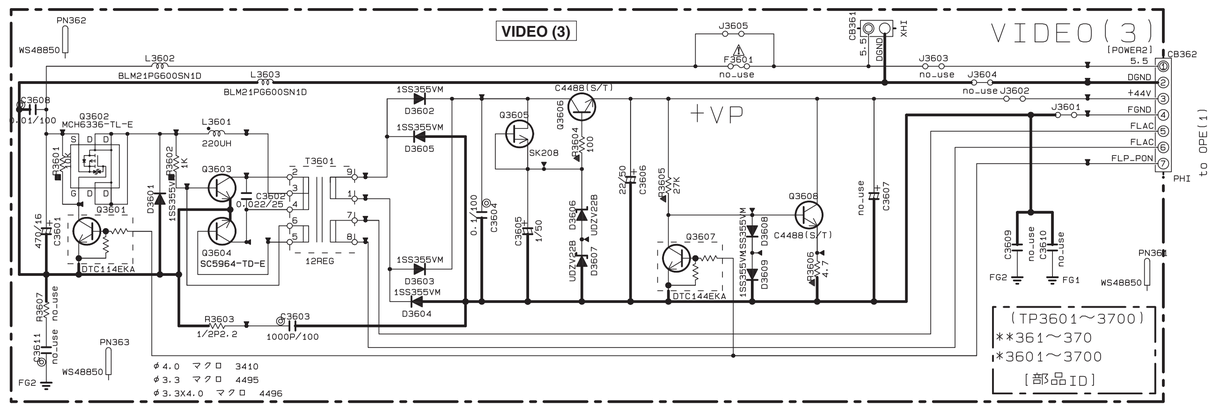



**IC352**: KIA7912PI
Voltage regulator




POWER SUPPLY
VIDEO/AUDIO/DAC/VFD
IDLING ADJUSTER

★ 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.

● ⚠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あります。

# ■ REPLACEMENT PARTS LIST

## • ELECTRICAL COMPONENT PARTS

### WARNING

- Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
- ⚠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 |
| C.CE | : CERAMIC CAP |
| C.CE.ARRAY | : CERAMIC CAP ARRAY |
| C.CE.CHP | : CHIP CERAMIC CAP |
| C.CE.M.CHP | : CHIP MULTILAYER CERAMIC CAP |
| C.CE.SAFTY | : RECOGNIZED CERAMIC CAP |
| C.CE.TUBLR | : CERAMIC TUBULAR CAP |
| C.CE.SMI | : SEMI CONDUCTIVE CERAMIC CAP |
| C.EL | : ELECTROLYTIC CAP |
| C.EL.BP | : BIPOLAR ELECTROLYTIC CAP |
| C.EL.CHP | : CHIP ELECTROLYTIC CAP |
| C.MICA | : MICA CAP |
| C.ML.FLM | : MULTILAYER FILM CAP |
| C.MP | : METALLIZED POLYESTER FILM CAP |
| C.MYLAR | : MYLAR FILM CAP |
| C.MYLAR.ML | : MULTILAYER MYLAR FILM CAP |
| C.NIOB.OXD | : NIOBIUM OXIDE CAP |
| C.PAPER | : PAPER CAPACITOR |
| C.PLS | : POLYSTYRENE FILM CAP |
| C.POL | : POLYESTER FILM CAP |
| C.PP | : POLYPROPYLENE FILM CAP |
| C.PP.CHP | : CHIP POLYPROPYLENE FILM CAP |
| C.TNTL | : TANTALIUM CAP |
| C.TNTL.CHP | : CHIP TANTALIUM CAP |
| C.TRIM | : TRIMMER CAP |
| CN | : CONNECTOR |
| CN.BS.PIN | : CONNECTOR,BASE PIN |
| CN.CANNON | : CONNECTOR,CANNON |
| CN.DIN | : CONNECTOR,DIN |
| CN.FLAT | : CONNECTOR,FLAT CABLE |
| CN.FFC | : CONNECTOR,FLEXIBLE FLAT CABLE |
| CN.HDMI | : HDMI CONNECTOR |
| CN.PHOTO.R | : PHOTO FIBER SENSOR,RECEIVED |
| CN.PHOTO.T | : PHOTO FIBER SENSOR,TRANSMITTED |
| DIODE.ARRAY | : DIODE ARRAY |
| DIODE.BRG | : DIODE BRIDGE |
| DIODE.CHP | : CHIP DIODE |
| DIODE.VAR | : VARACTOR DIODE |
| DIODE.ZENR | : ZENER DIODE |
| DIODE.Z.CHP | : CHIP ZENER DIODE |
| DIODE.SCHOTTKY | : SCHOTTKY BARRIER DIODE |
| DIODE.PHOT | : PHOTO DIODE |
| FER.BEAD | : FERRITE BEADS |
| FER.CORE | : FERRITE CORE |
| FET.CHP | : CHIP FET |
| FL.DSPLY | : FLUORESCENT DISPLAY |
| FLTR.CE | : CERAMIC FILTER |
| FLTR.COMB | : COMB FILTER MODULE |
| FLTR.LC.RF | : LC FILTER,EMI |
| FUSE.CHP | : CHIP FUSE |
| GND.MTL | : GROUND PLATE |
| GND.TERM | : GROUND TERMINAL |
| JUMPER.CN | : JUMPER CONNECTOR |
| JUMPER.TST | : JUMPER,TEST POINT |
| L.DTCT | : LIGHT DETECTING MODULE |
| LED.CHP | : CHIP LED |
| LED.DSPLY | : LED DISPLAY |
| LED.INFRD | : LED,INFRARED |
| PHOT.CPL | : PHOTO COUPLER |
| PHOT.INTR | : PHOTO INTERRUPTER |
| PHOT.RFLCT | : PHOTO REFLECTOR |
| PHOT.TR | : PHOTO TRANSISTOR |
| PIN.TEST | : PIN,TEST POINT |
| PTC.THERMISTOR | : POSITIVE TEMPERATURE COEFFICIENT THERMISTOR |
| R.ARRAY | : RESISTOR ARRAY |
| R.CAR. | : CARBON RESISTOR |
| R.CAR.CHP | : CHIP RESISTOR |
| R.CAR.FP | : FLAME PROOF CARBON RESISTOR |
| R.CEMENT | : CEMENT RESISTOR |
| R.FUS | : FUSIBLE RESISTOR |
| R.MTL.CHP | : CHIP METAL FILM RESISTOR |
| R.MTL.FLM | : METAL FILM RESISTOR |
| R.MTL.OXD | : METAL OXIDE FILM RESISTOR |
| R.MTL.PLAT | : METAL PLATE RESISTOR |
| RSNR.CE | : CERAMIC RESONATOR |
| RSNR.CRYS | : CRYSTAL RESONATOR |
| SCR.BND.HD | : BIND HEAD B-TIGHT SCREW |
| SCR.TERM | : SCREW TERMINAL |
| SCR.TR | : SCREW,TRANSISTOR |
| SURG.PRTCT | : SURGE PROTECTOR |
| SUPRT.PCB | : P.C.B. SUPPORT |
| SW.LEVER | : LEVER SWITCH |
| SW.MICRO | : MICRO SWITCH |
| SW.LEAF | : LEAF SWITCH |
| SW.PUSH | : PUSH SWITCH |
| SW.RT | : ROTARY SWITCH |
| SW.RT.ENC | : ROTARY ENCODER |
| SW.RT.MTR | : ROTARY SWITCH WITH MOTOR |
| SW.SLIDE | : SLIDE SWITCH |
| SW.TACT | : TACT SWITCH |
| TERM.SP | : SPEAKER TERMINAL |
| TERM.WRAP | : WRAPPING TERMINAL |
| THRMST.CHP | : CHIP THERMISTOR |
| TR | : TRANSISTOR |
| TR.CHP | : CHIP TRANSISTOR |
| TR.DGT | : DIGITAL TRANSISTOR |
| TR.DGT.CHP | : CHIP DIGITAL TRANSISTOR |
| TR.PAIR | : PAIR TRANSISTOR |
| TRANS | : TRANSFORMER |
| TRANS.PULS | : PULSE TRANSFORMER |
| TRANS.PWR | : POWER TRANSFORMER |
| VARISTOR.CHP | : CHIP VARISTOR |
| VOLT.SELCT | : VOLTAGE SELECTOR |
| VR | : ROTARY POTENTIOMETER |
| VR.MTR | : POTENTIOMETER WITH MOTOR |
| VR.SLIDE | : SLIDE POTENTIOMETER |
| VR.SW | : POTENTIOMETER WITH SWITCH |
| VR.TRIM | : TRIMMER POTENTIOMETER |

# DIGITAL

| | Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|
| * | | WY505300 | P.C.B. DIGITAL | | JCRTKABGFL | ＰＣＢ　ＤＩＧＩＴＡＬ | |
| * | | WY505400 | P.C.B. DIGITAL | | U | ＰＣＢ　ＤＩＧＩＴＡＬ | |
| | CB1-7 | WW271700 | CN.HDMI 19P HDMI | | | ＨＤＭＩコネクター | |
| | CB10 | WD295600 | CN.BS.PIN 20P SE | | | コネクター | 03 |
| | CB21 | VQ044700 | CN.BS.PIN 16P | | | コネクター | 01 |
| | CB22 | VQ044400 | CN.BS.PIN 9P | | | コネクター | 01 |
| | CB31 | WW271700 | CN.HDMI 19P HDMI | | | ＨＤＭＩコネクター | |
| | CB32 | VY939800 | CN.BS.PIN 20P TE | | | コネクター | 02 |
| | CB33 | WT567000 | CN.RS-232C RS-2322C 8LAM009P | | | ＲＳ－２３２Ｃコネクタ | |
| | CB61-62 | WW271700 | CN.HDMI 19P HDMI | | | ＨＤＭＩコネクター | |
| | CB81 | VN520900 | CN.BS.PIN 52045 26P TE | | | コネクター | 02 |
| | CB84 | VB390000 | CN.BS.PIN 4P | | | コネクター | 01 |
| | CB86 | VM973500 | CN.BS.PIN 17P | | | コネクター | 01 |
| | CB87 | VU282000 | CN 20P | | | ＦＦＣコネクター | 02 |
| | CB88 | VB390000 | CN.BS.PIN 4P | | | コネクター | 01 |
| | CB90 | VQ047200 | CN.BS.PIN 9P | | | コネクター | 01 |
| | CB92 | VG518300 | PIN.BASE 2P RF TE | | | ベースピン | 01 |
| | CB93 | VB390000 | CN.BS.PIN 4P | | | コネクター | 01 |
| | CB95 | VB390800 | CN.BS.PIN 12P | | | コネクター | 01 |
| | CB901 | WY212400 | CN.LAN 8P RJSE1AG3870-R | | | ネットワークコネクター | |
| | CB902 | VB390100 | CN.BS.PIN 5P | | | コネクター | 01 |
| | CB923 | VB389900 | CN.BS.PIN 3P | | | コネクター | 01 |
| | CB942 | VB858500 | CN.BS.PIN 6P | | | コネクター | 01 |
| | CB943-945 | V9356900 | CN.JE 19P SE | | | ＪＥコネクタープラグ | |
| | CB946 | LB918020 | CN.BS.PIN 2P | | | コネクター | 01 |
| | CB947 | LB919040 | CN.BS.PIN 4P | | | コネクター | 01 |
| | CB949 | VB389900 | CN.BS.PIN 3P | | | コネクター | 01 |
| | C1 | US634100 | C.CE.CHP 0.01uF 16V | | | チップセラコン | 01 |
| | C2 | US625100 | C.CE.CHP 0.100uF 10V | | | チップセラコン | 01 |
| | C3-12 | WG888300 | C.CE.M.CHP 10uF 6.3V | | | チップ積層セラコン | 01 |
| | C13-19 | US625100 | C.CE.CHP 0.100uF 10V | | | チップセラコン | 01 |
| | C20 | US662470 | C.CE.CHP 470pF 50V | | | チップセラコン | 01 |
| | C22-33 | US625100 | C.CE.CHP 0.100uF 10V | | | チップセラコン | 01 |
| | C34 | US663100 | C.CE.CHP 1000pF 50V | | | チップセラコン | 01 |
| | C35-42 | US625100 | C.CE.CHP 0.100uF 10V | | | チップセラコン | 01 |
| | C43 | WD758300 | C.CE.CHP 10uF 10V | | | チップセラコン | 01 |
| | C44-56 | US625100 | C.CE.CHP 0.100uF 10V | | | チップセラコン | 01 |
| | C57-92 | US634100 | C.CE.CHP 0.01uF 16V | | | チップセラコン | 01 |
| | C93-94 | US660700 | C.CE.CHP 7pF 50V | | | チップセラコン | 01 |
| | C99 | US663100 | C.CE.CHP 1000pF 50V | | | チップセラコン | 01 |
| | C101 | WD758300 | C.CE.CHP 10uF 10V | | | チップセラコン | 01 |
| | C103-105 | US663100 | C.CE.CHP 1000pF 50V | | | チップセラコン | 01 |
| | C106 | US662470 | C.CE.CHP 470pF 50V | | | チップセラコン | 01 |
| | C107-108 | WG888300 | C.CE.M.CHP 10uF 6.3V | | | チップ積層セラコン | 01 |
| | C109-110 | WD758300 | C.CE.CHP 10uF 10V | | | チップセラコン | 01 |
| | C111-112 | WG251600 | C.CE.CHP 4.7uF 6.3V | | | チップセラコン | 01 |
| | C113 | US634100 | C.CE.CHP 0.01uF 16V | | | チップセラコン | 01 |
| | C114-115 | US663100 | C.CE.CHP 1000pF 50V | | | チップセラコン | 01 |
| | C202-205 | WD758300 | C.CE.CHP 10uF 10V | | | チップセラコン | 01 |
| | C207-208 | WJ932500 | C.CE.CHP 1uF 6.3V | | | チップセラコン | 01 |
| | C210-234 | US625100 | C.CE.CHP 0.100uF 10V | | | チップセラコン | 01 |
| | C243-255 | US634100 | C.CE.CHP 0.01uF 16V | | | チップセラコン | 01 |
| | C264-265 | WG888300 | C.CE.M.CHP 10uF 6.3V | | | チップ積層セラコン | 01 |
| | C267-268 | WG888300 | C.CE.M.CHP 10uF 6.3V | | | チップ積層セラコン | 01 |
| | C269 | US034820 | C.CE.CHP 0.082uF 16V K | | | チップセラコン | 01 |
| | C270 | WG251600 | C.CE.CHP 4.7uF 6.3V | | | チップセラコン | 01 |
| | C271 | WD758300 | C.CE.CHP 10uF 10V | | | チップセラコン | 01 |

＊New Parts　＊新規部品



RX-A1010/RX-V1071

## DIGITAL

| Ref No. | Part No. | Description | | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| C272 | US662470 | C. CE. CHP | 470pF | 50V | | | チップセラコン | 01 |
| C273 | US663100 | C. CE. CHP | 1000pF | 50V | | | チップセラコン | 01 |
| C274 | US662470 | C. CE. CHP | 470pF | 50V | | | チップセラコン | 01 |
| C275 | US660800 | C. CE. CHP | 8pF | 50V | | | チップセラコン | 01 |
| C276 | US661100 | C. CE. CHP | 10pF | 50V D | | | チップセラコン | 01 |
| C351 | US662220 | C. CE. CHP | 220pF | 50V | | | チップセラコン | 01 |
| C352-353 | US663100 | C. CE. CHP | 1000pF | 50V | | | チップセラコン | 01 |
| C354 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C355 | US634100 | C. CE. CHP | 0. 01uF | 16V | | | チップセラコン | 01 |
| C356 | WG888300 | C. CE. M. CHP | 10uF | 6. 3V | | | チップ積層セラコン | 01 |
| C357 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C358-363 | US634100 | C. CE. CHP | 0. 01uF | 16V | | | チップセラコン | 01 |
| C364 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C365 | WG888300 | C. CE. M. CHP | 10uF | 6. 3V | | | チップ積層セラコン | 01 |
| C366-372 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C373 | US662220 | C. CE. CHP | 220pF | 50V | | | チップセラコン | 01 |
| C374 | US662470 | C. CE. CHP | 470pF | 50V | | | チップセラコン | 01 |
| C375 | WD758300 | C. CE. CHP | 10uF | 10V | | | チップセラコン | 01 |
| C376 | US663100 | C. CE. CHP | 1000pF | 50V | | | チップセラコン | 01 |
| C377 | WQ614300 | C. CE. CHP | 22uF | 10VE | | | チップセラコン | 01 |
| C378-379 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C380 | US634100 | C. CE. CHP | 0. 01uF | 16V | | | チップセラコン | 01 |
| C381 | WG888300 | C. CE. M. CHP | 10uF | 6. 3V | | | チップ積層セラコン | 01 |
| C501-503 | WG888300 | C. CE. M. CHP | 10uF | 6. 3V | | | チップ積層セラコン | 01 |
| C505 | WG888300 | C. CE. M. CHP | 10uF | 6. 3V | | | チップ積層セラコン | 01 |
| C507-509 | WG888300 | C. CE. M. CHP | 10uF | 6. 3V | | | チップ積層セラコン | 01 |
| C510-511 | US663100 | C. CE. CHP | 1000pF | 50V | | | チップセラコン | 01 |
| C514-547 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C601-604 | US046100 | C. CE. CHP | 1uF | 25V | | | チップセラコン | 01 |
| C605 | US661220 | C. CE. CHP | 22pF | 50V | | | チップセラコン | |
| C606 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C607 | US046100 | C. CE. CHP | 1uF | 25V | | | チップセラコン | 01 |
| C608-611 | WD758300 | C. CE. CHP | 10uF | 10V | | | チップセラコン | 01 |
| C612-617 | WG888300 | C. CE. M. CHP | 10uF | 6. 3V | | | チップ積層セラコン | 01 |
| C619-624 | WG888300 | C. CE. M. CHP | 10uF | 6. 3V | | | チップ積層セラコン | 01 |
| C625-651 | US634100 | C. CE. CHP | 0. 01uF | 16V | | | チップセラコン | 01 |
| C652-660 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C663-664 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C666-674 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C675-676 | US662470 | C. CE. CHP | 470pF | 50V | | | チップセラコン | 01 |
| C677 | US663100 | C. CE. CHP | 1000pF | 50V | | | チップセラコン | 01 |
| C678 | US634100 | C. CE. CHP | 0. 01uF | 16V | | | チップセラコン | 01 |
| C801 | UF017470 | C. EL. CHP | 47uF | 6. 3V | | | チップケミコン | 01 |
| C803 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C804 | US662100 | C. CE. CHP | 100pF | 50V | | | チップセラコン | |
| C805-806 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C808-814 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C815 | US046100 | C. CE. CHP | 1uF | 25V | | | チップセラコン | 01 |
| C816-822 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C823-832 | US663100 | C. CE. CHP | 1000pF | 50V | | | チップセラコン | 01 |
| C833-834 | US662100 | C. CE. CHP | 100pF | 50V | | | チップセラコン | |
| C835-839 | US663100 | C. CE. CHP | 1000pF | 50V | | | チップセラコン | 01 |
| C840-841 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C845-851 | US046100 | C. CE. CHP | 1uF | 25V | | | チップセラコン | 01 |
| C852 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |
| C853-854 | WG251600 | C. CE. CHP | 4. 7uF | 6. 3V | | | チップセラコン | 01 |
| C855 | US625100 | C. CE. CHP | 0. 100uF | 10V | | | チップセラコン | 01 |

＊New Parts　＊新規部品

## DIGITAL

| Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|
| C856-857 | US046100 | C.CE.CHP | 1uF 25V | | | チップセラコン | 01 |
| C859-860 | US046100 | C.CE.CHP | 1uF 25V | | | チップセラコン | 01 |
| C861-862 | US662100 | C.CE.CHP | 100pF 50V | | | チップセラコン | |
| C863 | WG251600 | C.CE.CHP | 4.7uF 6.3V | | | チップセラコン | 01 |
| C864-872 | US663100 | C.CE.CHP | 1000pF 50V | | | チップセラコン | 01 |
| C9001-9002 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9003-9006 | WG251600 | C.CE.CHP | 4.7uF 6.3V | | | チップセラコン | 01 |
| C9008 | US663100 | C.CE.CHP | 1000pF 50V | | | チップセラコン | 01 |
| C9009 | US634100 | C.CE.CHP | 0.01uF 16V | | | チップセラコン | 01 |
| C9010 | WC890600 | C.EL | 330uF 6.3V | | | ケミコン ＰＵＲＥ | 01 |
| C9011 | US663100 | C.CE.CHP | 1000pF 50V | | | チップセラコン | 01 |
| C9012-9013 | US661100 | C.CE.CHP | 10pF 50V D | | | チップセラコン | 01 |
| C9015-9017 | WJ932500 | C.CE.CHP | 1uF 6.3V | | | チップセラコン | 01 |
| C9019-9021 | WJ932500 | C.CE.CHP | 1uF 6.3V | | | チップセラコン | 01 |
| C9022-9026 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9027 | WG251600 | C.CE.CHP | 4.7uF 6.3V | | | チップセラコン | 01 |
| C9030-9032 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9033-9047 | US634100 | C.CE.CHP | 0.01uF 16V | | | チップセラコン | 01 |
| C9048-9050 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9051-9052 | US663100 | C.CE.CHP | 1000pF 50V | | | チップセラコン | 01 |
| C9053 | WJ932500 | C.CE.CHP | 1uF 6.3V | | | チップセラコン | 01 |
| C9054-9068 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9070 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9072 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9073 | US663100 | C.CE.CHP | 1000pF 50V | | | チップセラコン | 01 |
| C9074 | WJ932500 | C.CE.CHP | 1uF 6.3V | | | チップセラコン | 01 |
| C9075 | US663100 | C.CE.CHP | 1000pF 50V | | | チップセラコン | 01 |
| C9083-9084 | US662100 | C.CE.CHP | 100pF 50V | | | チップセラコン | |
| C9087-9089 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9090-9091 | US046100 | C.CE.CHP | 1uF 25V | | | チップセラコン | 01 |
| C9201-9207 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9210 | US643470 | C.CE.CHP | 4700pF 25V | | | チップセラコン | 01 |
| C9211 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9212 | UF437100 | C.EL.CHP | 10uF 16V | | JCRTKABGFL | チップケミコン | 01 |
| C9212 | UF037100 | C.EL.CHP | 10uF 16V | | U | チップケミコン | 01 |
| C9213-9251 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9252-9253 | UF037100 | C.EL.CHP | 10uF 16V | | | チップケミコン | 01 |
| C9254-9255 | US643470 | C.CE.CHP | 4700pF 25V | | | チップセラコン | 01 |
| C9262-9264 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9265 | US634100 | C.CE.CHP | 0.01uF 16V | | JCRTKABGFL | チップセラコン | 01 |
| C9266 | US634100 | C.CE.CHP | 0.01uF 16V | | | チップセラコン | 01 |
| C9269-9270 | WB571200 | C.MYLA.CHP | 0.00082uF 16V | | | チップマイラーコン | |
| C9271 | US662470 | C.CE.CHP | 470pF 50V | | | チップセラコン | 01 |
| C9272 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9273-9274 | US661150 | C.CE.CHP | 15pF 50V | | | チップセラコン | 01 |
| C9275 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9276 | UB214680 | C.CE.CHP | 0.068uF 25V | | | チップセラコン | 01 |
| C9278 | US643470 | C.CE.CHP | 4700pF 25V | | | チップセラコン | 01 |
| C9279-9280 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9281 | US625100 | C.CE.CHP | 0.100uF 10V | | JCRTKABGFL | チップセラコン | 01 |
| C9282 | WJ932500 | C.CE.CHP | 1uF 6.3V | | JCRTKABGFL | チップセラコン | 01 |
| C9283 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9284-9285 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9286-9289 | US046100 | C.CE.CHP | 1uF 25V | | | チップセラコン | 01 |
| C9290 | US662470 | C.CE.CHP | 470pF 50V | | | チップセラコン | 01 |
| C9291 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9401 | WH772100 | C.EL | 1000uF 10V | | | ケミコン | 04 |

✻ New Parts ＊新規部品

# DIGITAL

| Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|
| C9402 | UF437100 | C.EL.CHP | 10uF 16V | | JCRTKABGFL | チップケミコン | 01 |
| C9402 | UF037100 | C.EL.CHP | 10uF 16V | | U | チップケミコン | 01 |
| C9404 | WD758300 | C.CE.CHP | 10uF 10V | | | チップセラコン | 01 |
| C9406 | WD758300 | C.CE.CHP | 10uF 10V | | | チップセラコン | 01 |
| C9412 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9413 | US663100 | C.CE.CHP | 1000pF 50V | | JCRTKABGFL | チップセラコン | 01 |
| C9413 | US634100 | C.CE.CHP | 0.01uF 16V | | U | チップセラコン | 01 |
| C9416-9417 | WJ344400 | C.CE.CHP | 22uF 6.3V | | | チップセラコン | 01 |
| C9420-9421 | US663390 | C.CE.CHP | 3900pF 50V | | | チップセラコン | 01 |
| C9422-9425 | US663100 | C.CE.CHP | 1000pF 50V | | | チップセラコン | 01 |
| C9426-9429 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9430 | US663330 | C.CE.CHP | 3300pF 50V | | | チップセラコン | |
| C9431 | US643680 | C.CE.CHP | 6800pF 25V | | | チップセラコン | |
| C9432-9433 | WD758300 | C.CE.CHP | 10uF 10V | | | チップセラコン | 01 |
| C9434 | UF437100 | C.EL.CHP | 10uF 16V | | JCRTKABGFL | チップケミコン | 01 |
| C9434 | UF037100 | C.EL.CHP | 10uF 16V | | U | チップケミコン | 01 |
| C9435 | UF038100 | C.EL.CHP | 100uF 16V | | | チップケミコン | 01 |
| C9436 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9437-9444 | WD758300 | C.CE.CHP | 10uF 10V | | | チップセラコン | 01 |
| C9449-9450 | WD758300 | C.CE.CHP | 10uF 10V | | | チップセラコン | 01 |
| C9453 | WG888300 | C.CE.M.CHP | 10uF 6.3V | | | チップ積層セラコン | 01 |
| C9454 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9456-9457 | US662560 | C.CE.CHP | 560pF 50V | | | チップセラコン | |
| C9460-9464 | US662220 | C.CE.CHP | 220pF 50V | | | チップセラコン | 01 |
| C9470 | US625100 | C.CE.CHP | 0.100uF 10V | | | チップセラコン | 01 |
| C9479 | US643470 | C.CE.CHP | 4700pF 25V | | | チップセラコン | 01 |
| D201-202 | WR148500 | DIODE | RB521S-30TE61 | | | ダイオード | |
| D351 | WE674800 | VARISTOR.C | AVRL161A1R1NTB | | | チップバリスタ | 01 |
| D352-359 | WP385600 | PESD | PESD0603-240 | | | ポリマーＥＳＤ | |
| D360-362 | WE674800 | VARISTOR.C | AVRL161A1R1NTB | | | チップバリスタ | 01 |
| D601-604 | WE674800 | VARISTOR.C | AVRL161A1R1NTB | | | チップバリスタ | 01 |
| D605-606 | VV220700 | DIODE.SCHOTTKY | RB501V-40 | | | ショットキーダイオード | 01 |
| D801 | WR148500 | DIODE | RB521S-30TE61 | | | ダイオード | |
| D9402-9403 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| D9404-9406 | WR148500 | DIODE | RB521S-30TE61 | | | ダイオード | |
| IC1-2 | X8915B00 | IC.HDMI | SII9185ACTU HDMI | | | ＨＤＭＩ　ＩＣ | |
| IC4 | X8378A00 | IC | TC7SH125FU(TE85L,F | | | ロジックＩＣ | 01 |
| IC5 | YC286A00 | IC | RP130Q121D-TR-F | | | 電源ＩＣ | 01 |
| IC6 | YC289A00 | IC | RP130Q501D-TR | | | 電源ＩＣ | 01 |
| IC7 | X9292A00 | IC | R1172H121D-T1-F | | | 電源ＩＣ | 01 |
| IC21 | YD298A00 | IC | ADV7181CBSTZ | | | ＩＣ | |
| IC22 | X6671A00 | IC | ADV7172KSTZ | | | ＩＣ | 09 |
| IC23-25 | X7787A00 | IC | TC74LCX245FT(EL,K) | | | ロジックＩＣ | 02 |
| IC26 | YC825A00 | IC | R1172S331D-E2-F | | | 電源ＩＣ | |
| IC27 | YC287A00 | IC | RP130Q181D-TR-F | | | 電源ＩＣ | 01 |
| IC32 | YC321A00 | IC | TRS3221ECPWR | | | ＩＣ | 05 |
| IC33 | YC288A00 | IC | RP130Q331D-TR-F | | | 電源ＩＣ | 01 |
| IC34 | YC546A00 | IC | PCA9517ADP | | | ロジックＩＣ | |
| IC52 | X9745C00 | IC.MEMORY | M12L128168A-5TG2L | | | メモリＩＣ | |
| IC53 | X8378A00 | IC | TC7SH125FU(TE85L,F | | | ロジックＩＣ | 01 |
| IC54 | X9292A00 | IC | R1172H121D-T1-F | | | 電源ＩＣ | 01 |
| IC61-62 | X8560A00 | IC.HDMI | SIL9134CTU HDMI | | | ＨＤＭＩ　ＩＣ | |
| IC63 | X0199B00 | IC | TC74VHC157FT(EL,K) | | | ロジックＩＣ | 01 |
| IC64 | X7787A00 | IC | TC74LCX245FT(EL,K) | | | ロジックＩＣ | 02 |
| IC65-66 | YD173A00 | IC | NJM2888F05 5.0V | | | 電源ＩＣ | |
| IC68 | X4063A00 | IC | TC7WHU04FU | | | ロジックＩＣ | |
| IC80 | X8531A00 | IC | TC7WZ32FK | | | ロジックＩＣ | 02 |

＊New Parts　＊新規部品

# DIGITAL

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| * | IC82 | YD407C00 | IC. MEMORY | MX29LV640EBTI-70G | written | | メモリＩＣ | |
| | IC83 | YD355A00 | IC. MEMORY | R1EX25512ATA00A EE | | | メモリＩＣ | |
| | IC84-87 | X7942B00 | IC | TC74VHC273FT(EL,K) | | | ロジックＩＣ | 01 |
| | IC89-90 | X5875A00 | IC | SN74LV4051APWR | | | ロジックＩＣ | 01 |
| | IC91 | XZ493A00 | IC | TC74VHC86FT(EL) EX | | | ロジックＩＣ | 02 |
| | IC92 | X4453A00 | IC | SN74LVC1G17DCKR | | | ロジックＩＣ | 01 |
| | IC93 | X9692A00 | IC | TC7WH126FU | | | ロジックＩＣ | 01 |
| | IC94 | X8398A00 | IC | TC7SET08FU(T5L,JF) | | U | ロジックＩＣ | 01 |
| | IC95 | XR680A00 | IC | TC7SH08FU(TE85L,JF | | U | ロジックＩＣ | 01 |
| | IC96 | X8531A00 | IC | TC7WZ32FK | | | ロジックＩＣ | 02 |
| | IC97-98 | YC288A00 | IC | RP130Q331D-TR-F | | | 電源ＩＣ | 01 |
| | IC99 | YC289A00 | IC | RP130Q501D-TR | | | 電源ＩＣ | 01 |
| | IC902-903 | YA480B00 | IC. MEMORY | NT5SV32M8CS-6K | | | メモリＩＣ | |
| * | IC904 | YD684C00 | IC. MEMORY | W25Q128BVFIG | written | | メモリＩＣ | |
| | IC905 | X7787A00 | IC | TC74LCX245FT(EL,K) | | | ロジックＩＣ | 02 |
| | IC914 | YC287A00 | IC | RP130Q181D-TR-F | | | 電源ＩＣ | 01 |
| | IC915 | YC289A00 | IC | RP130Q501D-TR | | | 電源ＩＣ | 01 |
| | IC916 | X9292A00 | IC | R1172H121D-T1-F | | | 電源ＩＣ | 01 |
| | IC917 | X4453A00 | IC | SN74LVC1G17DCKR | | | ロジックＩＣ | 01 |
| | IC922 | X9625B00 | IC. MEMORY | M12L64164A-5TG | | | メモリＩＣ　６４Ｍ | 05 |
| * | IC923 | YD678B00 | IC. MEMORY | MX29LV160DBTI-70G | written | | メモリＩＣ | |
| | IC924 | YC213A00 | IC | PCM9210PTR | | | ＩＣ | |
| | IC926 | X8531A00 | IC | TC7WZ32FK | | | ロジックＩＣ | 02 |
| | IC927 | YC540A00 | IC | CS230011-CZZR | | JCRTKABGFL | ＩＣ　デジタル | 07 |
| | IC928 | XR680A00 | IC | TC7SH08FU(TE85L,JF) | | | ロジックＩＣ | 01 |
| | IC929 | X9292A00 | IC | R1172H121D-T1-F | | | 電源ＩＣ | 01 |
| | IC930 | YC288A00 | IC | RP130Q331D-TR-F | | | 電源ＩＣ | 01 |
| | IC931 | YC289A00 | IC | RP130Q501D-TR | | | 電源ＩＣ | 01 |
| | IC932 | XR680A00 | IC | TC7SH08FU(TE85L,JF) | | | ロジックＩＣ | 01 |
| | IC941 | X7375A00 | IC | PCM1781DBQR | | | ＩＣ | 04 |
| | IC945-946 | YA255A00 | IC | R1172H501D-T1-F | | | 電源ＩＣ | 03 |
| | IC948 | YC291A00 | IC | R1172N501D-TR-F | | | 電源ＩＣ | 02 |
| | IC949 | X4453A00 | IC | SN74LVC1G17DCKR | | | ロジックＩＣ | 01 |
| | PN941 | WS488500 | STYLE. PIN | L=90 #18 | | | スタイルピン | 01 |
| | PN943-944 | WS488500 | STYLE. PIN | L=90 #18 | | | スタイルピン | 01 |
| | Q1-14 | VQ986700 | TR | 2SC4081 T106 | | | トランジスタ | 01 |
| | Q17 | WQ381000 | FET | MCH6336-TL-E | | | ＭＯＳ　ＦＥＴ | 01 |
| | Q18 | WW782000 | TR. DGT | DTA044EUBTL | | | デジタルトランジスタ | |
| | Q19 | WQ381000 | FET | MCH6336-TL-E | | | ＭＯＳ　ＦＥＴ | 01 |
| | Q20 | WW782000 | TR. DGT | DTA044EUBTL | | | デジタルトランジスタ | |
| | Q61 | WQ381000 | FET | MCH6336-TL-E | | | ＭＯＳ　ＦＥＴ | 01 |
| | Q62 | WW782000 | TR. DGT | DTA044EUBTL | | | デジタルトランジスタ | |
| | Q201 | VR936300 | TR | 2SA1576A T106 | | | トランジスタ | 01 |
| | Q202 | WQ381000 | FET | MCH6336-TL-E | | | ＭＯＳ　ＦＥＴ | 01 |
| | Q203 | WE834500 | FET | UPA672T-T1-A | | | ＦＥＴ | 01 |
| | Q351-352 | VQ986700 | TR | 2SC4081 T106 | | | トランジスタ | 01 |
| | Q801 | VR936300 | TR | 2SA1576A T106 | | | トランジスタ | 01 |
| | Q804-807 | WY001400 | TR. ARRAY | HN4B01JE | | | トランジスタアレイ | |
| | Q812 | WW782000 | TR. DGT | DTA044EUBTL | | | デジタルトランジスタ | |
| | Q814 | VQ986700 | TR | 2SC4081 T106 | | | トランジスタ | 01 |
| | Q815-821 | VR936300 | TR | 2SA1576A T106 | | | トランジスタ | 01 |
| | Q822 | VQ986700 | TR | 2SC4081 T106 | | | トランジスタ | 01 |
| | Q9001 | WQ381000 | FET | MCH6336-TL-E | | | ＭＯＳ　ＦＥＴ | 01 |
| | Q9002 | WW782000 | TR. DGT | DTA044EUBTL | | | デジタルトランジスタ | |
| | Q9005-9007 | VQ986700 | TR | 2SC4081 T106 | | | トランジスタ | 01 |
| | Q9201 | WQ381000 | FET | MCH6336-TL-E | | | ＭＯＳ　ＦＥＴ | 01 |
| | Q9202 | WW782000 | TR. DGT | DTA044EUBTL | | | デジタルトランジスタ | |

＊New Parts　＊新規部品

## DIGITAL and FUNCTION

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|
| | Q9401 | WW782300 | TR. DGT | DTC044EUBTL | | U | デジタルトランジスタ | |
| | Q9402 | WW781900 | TR. DGT | DTA043EUBTL | | U | デジタルトランジスタ | |
| | Q9407 | VR936300 | TR | 2SA1576A T106 | | | トランジスタ | 01 |
| | R9419 | WA620700 | R. MTL. FLM | 6.8Ω 1W | | JCRTKABGFL | 金属被膜抵抗 | 01 |
| | R9419 | WB784700 | R. MTL. FLM | 6.8Ω 1W | | U | 金属被膜抵抗 | 01 |
| | XL1 | WR725300 | RSNR. CRYS | 27MHz SMD-49 | | | 水晶振動子 | 03 |
| | XL81 | WA782500 | RSNR. CE | 8MHz | | | セラミック振動子 | 01 |
| | XL201 | VZ772700 | RSNR. CRYS | 28.63636MHz | | | 水晶振動子 | 03 |
| | XL901 | WY036300 | RSNR. CRYS | 23.04MHz DSX321G | | | 水晶振動子 | |
| | XL921 | V3625700 | RSNR. CRYS | 24.576MHz | | | 水晶振動子 | 03 |
| * | | WY512900 | P. C. B. | FUNCTION | | J | ＰＣＢ ＦＵＮＣＴＩＯＮ | |
| * | | WY513000 | P. C. B. | FUNCTION | | U | ＰＣＢ ＦＵＮＣＴＩＯＮ | |
| * | | WY513100 | P. C. B. | FUNCTION | | CRT | ＰＣＢ ＦＵＮＣＴＩＯＮ | |
| * | | WY513200 | P. C. B. | FUNCTION | | KABGFL | ＰＣＢ ＦＵＮＣＴＩＯＮ | |
| | CB701-702 | V9356900 | CN. JE | 19P SE | | | ＪＥコネクタープラグ | |
| | CB703 | VU443800 | CN. JE | 15P SE | | | ＪＥコネクタープラグ | 01 |
| | CB705 | VM973500 | CN. BS. PIN | 17P | | | コネクター | 01 |
| | CB706 | VB858500 | CN. BS. PIN | 6P | | | コネクター | 01 |
| | CB707 | VB858400 | CN. BS. PIN | 5P | | | コネクター | 01 |
| | CB801-802 | V9357000 | CN | 19P TE | | | ＪＥコネクター | |
| | CB804 | V9357000 | CN | 19P TE | | | ＪＥコネクター | |
| | CB805 | LB919070 | CN. BS. PIN | 7P | | | コネクター | 01 |
| | CB806 | VM929900 | CN. BS. PIN | 15P | | | コネクター | 01 |
| | CB809-810 | V9357000 | CN | 19P TE | | | ＪＥコネクター | |
| | CB811 | VU446000 | CN. BS. PIN | 15P TE | | | ＪＥコネクター | 02 |
| | C7001 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7002 | UR218220 | C. EL | 220uF 6.3V | | | ケミコン | |
| | C7003 | UR038100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7004 | WJ608300 | C. MYLAR | 220pF 100V | | | マイラーコン | |
| | C7005 | WJ608900 | C. MYLAR | 1000pF 100V | | | マイラーコン | 01 |
| | C7006 | WJ608300 | C. MYLAR | 220pF 100V | | KABGFL | マイラーコン | |
| * | C7007 | WJ610100 | C. MYLAR | 9100pF 100V | | | マイラーコン | |
| | C7008 | WJ610800 | C. MYLAR | 0.033uF 100V | | | マイラーコン | |
| * | C7009 | WJ610100 | C. MYLAR | 9100pF 100V | | | マイラーコン | |
| | C7010 | WJ610800 | C. MYLAR | 0.033uF 100V | | | マイラーコン | |
| | C7011 | WJ608900 | C. MYLAR | 1000pF 100V | | | マイラーコン | 01 |
| | C7012 | WJ608300 | C. MYLAR | 220pF 100V | | KABGFL | マイラーコン | |
| | C7013 | WJ608300 | C. MYLAR | 220pF 100V | | | マイラーコン | |
| | C7014 | UR038100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7015 | UR218220 | C. EL | 220uF 6.3V | | | ケミコン | |
| | C7016 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7017 | US064100 | C. CE. CHP | 0.01uF 50V B | | | チップセラコン | 01 |
| | C7019 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7021 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7025-7026 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7029-7030 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7033-7034 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7036 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7037-7038 | US061470 | C. CE. CHP | 47pF 50V B | | | チップセラコン | 01 |
| | C7039 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7041-7042 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7045-7046 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7049-7050 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7053-7054 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |

＊New Parts ＊新規部品

# FUNCTION

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| | C7057 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7058 | UR038100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7059 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7060 | UR038100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7063-7064 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7067-7068 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| | C7070 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7071-7072 | US062220 | C. CE. CHP | 220pF 50V B | | | チップセラコン | 01 |
| * | C7215-7216 | WJ609600 | C. MYLAR | 3900pF 100V | | | マイラーコン | |
| | C7217-7220 | WJ608600 | C. MYLAR | 560pF 100V | | | マイラーコン | 01 |
| | C7221-7222 | UU237100 | C. EL | 10uF 16V | | | ケミコン FW | 01 |
| | C7225-7226 | UU238100 | C. EL | 100uF 16V | | | ケミコン | 01 |
| * | C7233-7234 | WJ609600 | C. MYLAR | 3900pF 100V | | | マイラーコン | |
| | C7235-7238 | WJ608600 | C. MYLAR | 560pF 100V | | | マイラーコン | 01 |
| | C7239-7240 | UU237100 | C. EL | 10uF 16V | | | ケミコン FW | 01 |
| * | C7243-7244 | WJ609600 | C. MYLAR | 3900pF 100V | | | マイラーコン | |
| | C7245-7248 | WJ608600 | C. MYLAR | 560pF 100V | | | マイラーコン | 01 |
| | C7249-7250 | UU237100 | C. EL | 10uF 16V | | | ケミコン FW | 01 |
| * | C7253 | WJ609600 | C. MYLAR | 3900pF 100V | | | マイラーコン | |
| | C7254 | WJ610200 | C. MYLAR | 0. 01uF 100V | | | マイラーコン | 01 |
| | C7255 | WJ608600 | C. MYLAR | 560pF 100V | | | マイラーコン | 01 |
| | C7256 | WJ609900 | C. MYLAR | 6800pF 100V | | | マイラーコン | 01 |
| | C7257 | WJ608600 | C. MYLAR | 560pF 100V | | | マイラーコン | 01 |
| | C7258 | WJ609900 | C. MYLAR | 6800pF 100V | | | マイラーコン | 01 |
| | C7259-7260 | UU237100 | C. EL | 10uF 16V | | | ケミコン FW | 01 |
| | C7401-7408 | UR238100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7409-7410 | UR267330 | C. EL | 33uF 50V | | | ケミコン | 01 |
| | C7411 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7412-7416 | UR238100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7417 | US034330 | C. CE. CHP | 0. 033uF 16V B | | | チップセラコン | 01 |
| | C7419 | VR169000 | C. MYLAR | 0. 33uF 50V | | | マイラーコン | 01 |
| | C7421 | US063820 | C. CE. CHP | 8200pF 50V B | | | チップセラコン | 01 |
| | C7423 | US034330 | C. CE. CHP | 0. 033uF 16V B | | | チップセラコン | 01 |
| | C7425 | VR169000 | C. MYLAR | 0. 33uF 50V | | | マイラーコン | 01 |
| | C7427 | US063820 | C. CE. CHP | 8200pF 50V B | | | チップセラコン | 01 |
| | C7429-7431 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C7432 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7433 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C7434-7436 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7439-7440 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C7441-7442 | UR067100 | C. EL | 10uF 50V | | | ケミコン | 01 |
| | C7443-7444 | UU238100 | C. EL | 100uF 16V | | | ケミコン | 01 |
| | C7449-7453 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7461 | V3860300 | C. EL | 0. 047F 5. 5V | | | ダイナキャパシタ | 04 |
| | C7462-7465 | UU238100 | C. EL | 100uF 16V | | | ケミコン | 01 |
| | C7501-7507 | UU237100 | C. EL | 10uF 16V | | | ケミコン FW | 01 |
| | C7508-7514 | US061470 | C. CE. CHP | 47pF 50V B | | | チップセラコン | 01 |
| | C7601-7602 | UU238100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7603-7604 | VR169200 | C. MYLAR | 0. 47uF 50V | | | マイラーコン | 01 |
| | C7605-7606 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7609-7616 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7617-7618 | US062100 | C. CE. CHP | 100pF 50V B | | | チップセラコン | 01 |
| | C7619-7623 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7624-7625 | US061470 | C. CE. CHP | 47pF 50V B | | | チップセラコン | 01 |
| | C7628-7633 | US061470 | C. CE. CHP | 47pF 50V B | | | チップセラコン | 01 |
| | C7634-7635 | US064100 | C. CE. CHP | 0. 01uF 50V B | | | チップセラコン | 01 |
| | C7636 | US061470 | C. CE. CHP | 47pF 50V B | | | チップセラコン | 01 |

* New Parts ＊新規部品

# FUNCTION

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| | C7637-7640 | US064100 | C. CE. CHP | 0. 01uF 50V B | | | チップセラコン | 01 |
| | C7641 | UR067470 | C. EL | 47uF 50V | | JCRTKABGFL | ケミコン | 01 |
| | C7642 | UR067470 | C. EL | 47uF 50V | | JCRTKABGFL | ケミコン | 01 |
| | C7643 | UR067470 | C. EL | 47uF 50V | | JCRTKABGFL | ケミコン | 01 |
| | C7644-7645 | US062100 | C. CE. CHP | 100pF 50V B | | | チップセラコン | 01 |
| | C7646-7647 | US064100 | C. CE. CHP | 0. 01uF 50V B | | | チップセラコン | 01 |
| | C7701 | UR038100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7702-7705 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7706-7709 | US062100 | C. CE. CHP | 100pF 50V B | | | チップセラコン | 01 |
| | C7710-7711 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C7712-7713 | US061100 | C. CE. CHP | 10pF 50V B | | | チップセラコン | 01 |
| | C7714-7715 | UR038100 | C. EL | 100uF 16V | | | ケミコン | |
| | C7716-7719 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C7802 | UR067470 | C. EL | 47uF 50V | | | ケミコン | 01 |
| | C7803 | US062220 | C. CE. CHP | 220pF 50V B | | U | チップセラコン | 01 |
| | C7804 | US063100 | C. CE. CHP | 1000pF 50V B | | U | チップセラコン | 01 |
| | C7805-7810 | US062220 | C. CE. CHP | 220pF 50V B | | U | チップセラコン | 01 |
| | C7811-7812 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C7813-7814 | US061220 | C. CE. CHP | 22pF 50V B | | | チップセラコン | 01 |
| | C7815-7821 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C7822 | US061220 | C. CE. CHP | 22pF 50V B | | | チップセラコン | 01 |
| | C8001 | WP882000 | C. CE. CHP | 10uF 6. 3V | | | チップセラコン | |
| | C8002 | US062100 | C. CE. CHP | 100pF 50V B | | | チップセラコン | 01 |
| | C8003-8004 | WP882000 | C. CE. CHP | 10uF 6. 3V | | | チップセラコン | |
| | C8008-8009 | US062100 | C. CE. CHP | 100pF 50V B | | | チップセラコン | 01 |
| | C8010 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8011-8012 | US062100 | C. CE. CHP | 100pF 50V B | | | チップセラコン | 01 |
| | C8013 | UR067100 | C. EL | 10uF 50V | | | ケミコン | 01 |
| | C8014-8015 | UR267100 | C. EL | 10uF 50V | | | ケミコン | |
| | C8016-8017 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8018-8019 | UU237470 | C. EL | 47uF 16V | | | ケミコン | 01 |
| | C8020 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8021 | UR067100 | C. EL | 10uF 50V | | | ケミコン | 01 |
| | C8023-8026 | US163100 | C. CE. CHP | 1000pF 50V | | | チップセラコン | 01 |
| | C8028 | UM397100 | C. EL | 10uF 16V | | | ケミコン | 01 |
| | C8029-8030 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8033-8035 | US062100 | C. CE. CHP | 100pF 50V B | | | チップセラコン | 01 |
| | C8036 | UM397100 | C. EL | 10uF 16V | | | ケミコン | 01 |
| | C8115-8116 | UR068100 | C. EL | 100uF 50V | | | ケミコン | 01 |
| | C8119 | UR257100 | C. EL | 10uF 35V | | | ケミコン | 01 |
| | C8123-8125 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8127 | UR257100 | C. EL | 10uF 35V | | | ケミコン | 01 |
| | C8128-8130 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8132 | UR257100 | C. EL | 10uF 35V | | | ケミコン | 01 |
| | C8133-8135 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8137 | UR257100 | C. EL | 10uF 35V | | | ケミコン | 01 |
| | C8138-8140 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8145 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8151-8154 | US064100 | C. CE. CHP | 0. 01uF 50V B | | | チップセラコン | 01 |
| | C8157-8159 | US064100 | C. CE. CHP | 0. 01uF 50V B | | | チップセラコン | 01 |
| | C8160 | US035100 | C. CE. CHP | 0. 1uF 16V B | | | チップセラコン | 01 |
| | C8161-8166 | US064100 | C. CE. CHP | 0. 01uF 50V B | | | チップセラコン | 01 |
| | D7402 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| * | D7403-7404 | WY163600 | DIODE. ZENR | UDZV7. 5B | | | ツェナーダイオード | |
| * | D7601 | WY163300 | DIODE. ZENR | UDZV5. 6B | | JCRTKABGFL | ツェナーダイオード | |
| | D8104-8105 | VV220700 | DIODE. SCHOTTKY | RB501V-40 | | | ショットキーダイオード | 01 |
| | IC701 | X3505A00 | IC | NJM2068MD-TE2 | | | アンプＩＣ | 02 |

＊New Parts ＊新規部品

# FUNCTION

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| | IC713 | X7378A00 | IC | NJM4565M(TE1) | | | アンプＩＣ | 01 |
| | IC724 | X8136A00 | IC | LM833MX | | | アンプＩＣ | |
| | IC726-728 | X8136A00 | IC | LM833MX | | | アンプＩＣ | |
| | IC741-742 | YA361B00 | IC | R2A15220FP | | | ＩＣ | |
| | IC761-762 | X7378A00 | IC | NJM4565M(TE1) | | | アンプＩＣ | 01 |
| | IC763 | XS377A00 | IC | BA15218F OP AMP | | | アンプＩＣ | 01 |
| | IC781-782 | XZ509A00 | IC | TC74VHCU04FT INVER | | | ロジックＩＣ | 01 |
| | IC801 | X7378A00 | IC | NJM4565M(TE1) | | | アンプＩＣ | 01 |
| | IC802 | X8875A00 | IC | FHP3350IM14X | | | アンプＩＣ | 04 |
| | IC803 | X7378A00 | IC | NJM4565M(TE1) | | | アンプＩＣ | 01 |
| | IC810 | X4063A00 | IC | TC7WHU04FU | | | ロジックＩＣ | |
| | IC812-815 | YC508A00 | IC | PCM1789PWR | | | Ｄ／Ａコンバーター | 05 |
| | JK781 | VV269500 | CN | 8P DIN | | U | 複合コネクタ | 03 |
| | PJ701 | V8041300 | JACK.PIN | 4P MSP-244V6-01NI | | | ピンジャック | |
| | PJ702-703 | V7046700 | JACK.PIN | 4P MSP-244V1-01NI | | | ピンジャック | 03 |
| | PJ704-705 | V7046800 | JACK.PIN | 6P MSP-246V1-01NI | | | ピンジャック | 04 |
| | PJ706 | WR095600 | JACK.PIN | 4P MSP-244V1-19NI | | | ピンジャック | 02 |
| | PJ707 | WH671500 | JACK.PIN | 2P MSP-242V1-01NI | | | ピンジャック | |
| | PJ709 | V7046700 | JACK.PIN | 4P MSP-244V1-01NI | | | ピンジャック | 03 |
| | PJ710 | WR095600 | JACK.PIN | 4P MSP-244V1-19NI | | | ピンジャック | 02 |
| | PJ711 | V7189700 | JACK.PIN | 1P | | | ピンジャック | 01 |
| | PJ781 | V5715300 | JACK.PIN | 2P OR/OR | | | ピンジャック | 02 |
| | PJ782 | V8795700 | JACK.PIN | 1P | | | ピンジャック | 01 |
| | Q7403-7404 | WN164100 | FET | 5HN01C-TB-E | | | ＦＥＴ | |
| | Q7406 | WC435100 | TR.DGT | KRC104S-RTK | | | デジタルトランジスタ | 01 |
| | Q7409 | VP872700 | TR | 2SC4488 S,T | | | トランジスタ | 01 |
| | Q7410 | VP872600 | TR | 2SA1708 S,T | | | トランジスタ | 01 |
| | Q7501-7507 | VD303700 | TR | 2SC3326 A,B | | | トランジスタ | 01 |
| | Q7601-7602 | WC883400 | TR | 2SD2704 K | | | トランジスタ | |
| | Q7605-7610 | WC883400 | TR | 2SD2704 K | | | トランジスタ | |
| | Q7613-7621 | WC883400 | TR | 2SD2704 K | | | トランジスタ | |
| | Q7622 | VP872700 | TR | 2SC4488 S,T | | JCRTKABGFL | トランジスタ | 01 |
| | Q7701 | iC1815I0 | TR | 2SC1815 Y | | | トランジスタ | 01 |
| | Q7702 | iA1015I0 | TR | 2SA1015 Y | | | トランジスタ | 01 |
| | Q7703 | VR936300 | TR | 2SA1576A T106 | | | トランジスタ | 01 |
| | Q7704 | VQ986700 | TR | 2SC4081 T106 | | | トランジスタ | 01 |
| | Q7705-7706 | VD303700 | TR | 2SC3326 A,B | | | トランジスタ | 01 |
| | Q7707-7708 | VQ986700 | TR | 2SC4081 T106 | | | トランジスタ | 01 |
| | R7016 | HF353220 | R.CAR | 2.2Ω 1/2W | | | カーボン抵抗 | |
| | R7023 | HF353220 | R.CAR | 2.2Ω 1/2W | | | カーボン抵抗 | |
| | R7026-7027 | HF353220 | R.CAR | 2.2Ω 1/2W | | | カーボン抵抗 | |
| | R7223 | WQ072300 | R.MTL.OXD | 2.2Ω 1W | | JCRTKABGFL | 酸化金属被膜抵抗 | |
| | R7223 | HF353220 | R.CAR | 2.2Ω 1/2W | | U | カーボン抵抗 | |
| | R7224 | WQ072300 | R.MTL.OXD | 2.2Ω 1W | | JCRTKABGFL | 酸化金属被膜抵抗 | |
| | R7224 | HF353220 | R.CAR | 2.2Ω 1/2W | | U | カーボン抵抗 | |
| | R7413-7414 | V8070500 | R.MTL.FLM | 22Ω 1W | | | 金属被膜抵抗 | 01 |
| | R7601-7602 | V8070100 | R.MTL.FLM | 2.2Ω 1W | | | 金属被膜抵 | |
| * | R7685 | WW967500 | R.MTL.OXD | 18Ω 1/4W | | JCRTKABGFL | 酸化金属被膜抵抗 | |
| | R7801 | HF353220 | R.CAR | 2.2Ω 1/2W | | | カーボン抵抗 | |
| | R8133 | V8070100 | R.MTL.FLM | 2.2Ω 1W | | | 金属被膜抵 | |
| | R9139 | V8070100 | R.MTL.FLM | 2.2Ω 1W | | | 金属被膜抵 | |
| | R8140-8141 | HF353220 | R.CAR | 2.2Ω 1/2W | | | カーボン抵抗 | |
| | U781-782 | WH169900 | CN.PHOTO.R | 1P GP1FAV51RK0F | | | 光ファイバー受信器 | 04 |
| * | U783 | WH339800 | CN.PHOTO.T | 1P GP1FAV51TK0F | | | 光ファイバー送信器 | 02 |
| | U784 | WH169900 | CN.PHOTO.R | 1P GP1FAV51RK0F | | | 光ファイバー受信器 | 04 |

* New Parts ＊新規部品

# OPERATION

| | Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|
| * | | WY515900 | P.C.B. OPERATION | | | PCB OPERATION | |
| | CB401 | VQ045500 | CN.BS.PIN 26P | | | コネクター | 02 |
| | CB452 | VM859600 | CN.BS.PIN 15P | | | コネクター | 01 |
| | CB454 | VB390000 | CN.BS.PIN 4P | | | コネクター | 01 |
| | CB455 | WG668100 | CN.USB USB 4P SE | | | ＵＳＢコネクター | 04 |
| | CB461 | VK026500 | CN.BS.PIN 6P | | | ワイヤートラップ | 01 |
| | C4001 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4002 | US062100 | C.CE.CHP 100pF 50V B | | | チップセラコン | 01 |
| | C4004 | US062100 | C.CE.CHP 100pF 50V B | | | チップセラコン | 01 |
| | C4005 | US046100 | C.CE.CHP 1uF 25V | | | チップセラコン | 01 |
| | C4006 | WG251600 | C.CE.CHP 4.7uF 6.3V | | | チップセラコン | 01 |
| | C4007-4008 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4010-4011 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4013 | US062220 | C.CE.CHP 220pF 50V B | | | チップセラコン | 01 |
| | C4014 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4015-4016 | US063100 | C.CE.CHP 1000pF 50V B | | | チップセラコン | 01 |
| | C4017 | US065100 | C.CE.CHP 0.1uF 50V B | | | チップセラコン | 01 |
| | C4019 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4101 | UM388100 | C.EL 100uF 6.3V | | | ケミコン | 01 |
| | C4102 | UM397220 | C.EL 22uF 25V | | | ケミコン | 01 |
| | C4103 | UM417220 | C.EL 22uF 50V | | | ケミコン | 01 |
| | C4501 | US126100 | C.CE.CHP 1uF 10V | | | チップセラコン | 01 |
| | C4502-4503 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4505 | US061330 | C.CE.CHP 33pF 50V B | | | チップセラコン | 01 |
| | C4507 | US063100 | C.CE.CHP 1000pF 50V B | | | チップセラコン | 01 |
| | C4509 | US064100 | C.CE.CHP 0.01uF 50V B | | | チップセラコン | 01 |
| | C4510 | US062100 | C.CE.CHP 100pF 50V B | | | チップセラコン | 01 |
| | C4511 | WJ609500 | C.MYLAR 3300pF 100V | | | マイラーコン | |
| | C4513 | US062100 | C.CE.CHP 100pF 50V B | | | チップセラコン | 01 |
| | C4514 | US063100 | C.CE.CHP 1000pF 50V B | | | チップセラコン | 01 |
| | C4516 | US065100 | C.CE.CHP 0.1uF 50V B | | | チップセラコン | 01 |
| | C4517 | WJ609500 | C.MYLAR 3300pF 100V | | | マイラーコン | |
| | C4521-4522 | US062470 | C.CE.CHP 470pF 50V B | | | チップセラコン | 01 |
| | C4524 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4525 | US064100 | C.CE.CHP 0.01uF 50V B | | | チップセラコン | 01 |
| | C4526 | US062100 | C.CE.CHP 100pF 50V B | | | チップセラコン | 01 |
| | C4527 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4528-4529 | US063100 | C.CE.CHP 1000pF 50V B | | | チップセラコン | 01 |
| | C4530 | US163100 | C.CE.CHP 1000pF 50V | | | チップセラコン | 01 |
| | C4531 | US035100 | C.CE.CHP 0.1uF 16V B | | | チップセラコン | 01 |
| | C4532 | US064100 | C.CE.CHP 0.01uF 50V B | | | チップセラコン | 01 |
| | C4551 | UR067100 | C.EL 10uF 50V | | | ケミコン | 01 |
| | C4552-4555 | UR237470 | C.EL 47uF 16V | | | ケミコン | 01 |
| | C4556 | UR837220 | C.EL 22uF 16V | | | ケミコン | 01 |
| | C4557 | UR067100 | C.EL 10uF 50V | | | ケミコン | 01 |
| | C4701-4702 | US063100 | C.CE.CHP 1000pF 50V B | | | チップセラコン | 01 |
| | D4001 | WR095700 | LED 8224-10SDRD/S530A3 | | | ＬＥＤ | 01 |
| | D4002-4003 | WW783900 | DIODE 1SS355VM | | | ダイオード | |
| | D4006-4007 | WY162800 | DIODE.ZENR UDZV3.6B | | | ツェナーダイオード | |
| | D4501-4504 | WW783900 | DIODE 1SS355VM | | | ダイオード | |
| | D4506-4508 | WW783900 | DIODE 1SS355VM | | | ダイオード | |
| | D4509 | WY163200 | DIODE.ZENR UDZV5.1B | | | ツェナーダイオード | |
| | D4510 | WW783900 | DIODE 1SS355VM | | | ダイオード | |
| | D4512 | WW783900 | DIODE 1SS355VM | | | ダイオード | |
| | D4514 | WW783900 | DIODE 1SS355VM | | | ダイオード | |
| | D4603 | WW172500 | LED HLMP-NS30 BLUE | | | ＬＥＤ | |
| | IC401 | YC288A00 | IC RP130Q331D-TR-F | | | 電源ＩＣ | 01 |

＊New Parts ＊新規部品

## OPERATION and MAIN

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| | IC451 | X7378A00 | IC | NJM4565M(TE1) | | | アンプＩＣ | 01 |
| | JK451 | V9408200 | JACK.PHONE | MSJ-064-05B GR | | | ヘッドホンジャック | 03 |
| | JK452 | V2589500 | CN.DIN | 1P | | | ミニＤＩＮコネクタ | 02 |
| | JK453 | WB751700 | JACK.MNI | LGY6511-0500 | | | モノラルミニジャック | 01 |
| | PJ451 | V6222800 | JACK.PIN | 3P | | | ピンジャック | 04 |
| | Q4001-4002 | WC529400 | TR | KTC3875S Y GR RTK | | | トランジスタ | 01 |
| | Q4501 | WC883400 | TR | 2SD2704 K | | | トランジスタ | |
| | Q4601 | WC529400 | TR | KTC3875S Y GR RTK | | | トランジスタ | 01 |
| | R4505-4506 | V8070900 | R.MTL.FLM | 100Ω 1W | | | 金属被膜抵抗 | 01 |
| | SW401-430 | WD483100 | SW.TACT | SKRGAAD010 | | | タクトスイッチ | 01 |
| | SW461 | V9281300 | SW.RT.ENC | EVEKD2F3024B | | | ロータリーエンコーダ | 02 |
| | SW462 | WD483100 | SW.TACT | SKRGAAD010 | | | タクトスイッチ | 01 |
| | SW471 | WQ291600 | SW.RT.ENC | XREB12105PVB25FINA | | | ロータリーエンコーダ | 02 |
| | U4001 | WW715100 | L.DTCT | SIR8430MH6 | | | リモコン受光ユニット | |
| | U4501 | WH169900 | CN.PHOTO.R | 1P GP1FAV51RK0F | | | 光ファイバー受信器 | 04 |
| * | V4001 | WY161100 | FL.DSPLY | 23-MT-04GINK | | | 螢光表示管 | |
| | | V6007100 | SPACER.FL | 10x32x4.6 | | | ＦＬスペーサー | |
| * | | WY512100 | P.C.B. | MAIN | | J | ＰＣＢ ＭＡＩＮ | |
| * | | WY512200 | P.C.B. | MAIN | | U | ＰＣＢ ＭＡＩＮ | |
| * | | WY512300 | P.C.B. | MAIN | | C | ＰＣＢ ＭＡＩＮ | |
| * | | WY512400 | P.C.B. | MAIN | | RTA | ＰＣＢ ＭＡＩＮ | |
| * | | WY512500 | P.C.B. | MAIN | | KBGFL | ＰＣＢ ＭＡＩＮ | |
| | CB102-104 | V7825400 | CN | 4P TE TUC SERIES | | | コネクタープラグ | 01 |
| | CB105 | VB389900 | CN.BS.PIN | 3P | | | コネクター | 01 |
| | CB106 | VB390000 | CN.BS.PIN | 4P | | | コネクター | 01 |
| | CB107-108 | V7825400 | CN | 4P TE TUC SERIES | | | コネクタープラグ | 01 |
| | CB109 | WB127100 | CN.BS.PIN | 3P | | | コネクター | |
| | CB110-111 | V7825400 | CN | 4P TE TUC SERIES | | | コネクタープラグ | 01 |
| | CB112 | LB932060 | CN.BS.PIN | 6P | | | コネクター | 01 |
| | CB115-116 | WA246200 | SCR.TERM | 3.5 | | | スクリューターミナル | |
| | CB131 | VB390000 | CN.BS.PIN | 4P | | | コネクター | 01 |
| | C1001-1002 | UR397220 | C.EL | 22uF 100V | | | ケミコン | |
| | C1004 | UR296470 | C.EL | 4.7uF 100V | | | ケミコン | 01 |
| | C1005 | US135100 | C.CE.CHP | 0.1uF 16V | | | チップセラコン | 01 |
| | C1006-1007 | UR397220 | C.EL | 22uF 100V | | | ケミコン | |
| | C1008 | WJ609300 | C.MYLAR | 2200pF 100V | | | マイラーコン | |
| | C1009 | WE100200 | C.PP | 22pF 630V K | | | ＰＰコン | 01 |
| ⚠ | C1010 | UR397220 | C.EL | 22uF 100V | | | ケミコン | |
| | C1012 | WE100400 | C.PP | 47pF 630V K | | | ＰＰコン | |
| | C1013 | WJ611000 | C.MYLAR | 0.047uF 100V | | JKBGFL | マイラーコン | |
| | C1013 | WP421000 | C.PP | 0.047uF 100V | | UCRTA | ＰＰコン | |
| | C1014 | WK041800 | C.EL | 10uF 16V | | | ケミコン | 01 |
| | C1016 | UR058100 | C.EL | 100uF 35V | | | ケミコン | 01 |
| | C1017-1018 | WJ608300 | C.MYLAR | 220pF 100V | | | マイラーコン | |
| | C1019 | UR397100 | C.EL | 10uF 100V | | | ケミコン | 03 |
| | C1020 | WJ609300 | C.MYLAR | 2200pF 100V | | | マイラーコン | |
| | C1021 | WE100200 | C.PP | 22pF 630V K | | | ＰＰコン | 01 |
| | C1022 | UR397220 | C.EL | 22uF 100V | | | ケミコン | |
| | C1024 | WE100400 | C.PP | 47pF 630V K | | | ＰＰコン | |
| | C1025 | WJ611000 | C.MYLAR | 0.047uF 100V | | JKBGFL | マイラーコン | |
| | C1025 | WP421000 | C.PP | 0.047uF 100V | | UCRTA | ＰＰコン | |
| | C1026 | WK041800 | C.EL | 10uF 16V | | | ケミコン | 01 |
| | C1028 | UR058100 | C.EL | 100uF 35V | | | ケミコン | 01 |
| | C1029 | WJ608300 | C.MYLAR | 220pF 100V | | | マイラーコン | |

* New Parts ＊新規部品

# MAIN

| | Ref No. | Part No. | Description | | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|---|
| | C1030 | UR397100 | C. EL | 10uF | 100V | | | ケミコン | 03 |
| | C1031 | WJ608300 | C. MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1032 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1033 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1033 | WN165500 | C. PP | 0. 022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1034 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1035 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1035 | WN165500 | C. PP | 0. 022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1036 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1037 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1037 | WN165500 | C. PP | 0. 022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1038 | WJ609300 | C. MYLAR | 2200pF | 100V | | | マイラーコン | |
| | C1039-1041 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| ⚠ | C1042 | UR397220 | C. EL | 22uF | 100V | | | ケミコン | |
| | C1044 | WE100200 | C. PP | 22pF | 630V K | | | ＰＰコン | 01 |
| | C1045 | WE100400 | C. PP | 47pF | 630V K | | | ＰＰコン | |
| | C1046 | WK041800 | C. EL | 10uF | 16V | | | ケミコン | 01 |
| | C1047 | WJ611000 | C. MYLAR | 0. 047uF | 100V | | JKBGFL | マイラーコン | |
| | C1047 | WP421000 | C. PP | 0. 047uF | 100V | | UCRTA | ＰＰコン | |
| | C1048 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1048 | WN165500 | C. PP | 0. 022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1049 | WE100900 | C. PP | 220pF | 630V K | | | ＰＰコン | 02 |
| | C1050 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1052 | UR058100 | C. EL | 100uF | 35V | | | ケミコン | 01 |
| | C1053 | WJ608300 | C. MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1054 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1054 | WN165500 | C. PP | 0. 022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1055 | WJ608300 | C. MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1056 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1058 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1059 | UR397100 | C. EL | 10uF | 100V | | JKBGFL | ケミコン | 03 |
| | C1059 | UR297220 | C. EL | 22uF | 100V | | UCRTA | ケミコン | 01 |
| | C1060 | UR397100 | C. EL | 10uF | 100V | | JKBGFL | ケミコン | 03 |
| | C1060 | UR297220 | C. EL | 22uF | 100V | | UCRTA | ケミコン | 01 |
| | C1061 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1061 | WN165500 | C. PP | 0. 022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1062 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1063 | UR397100 | C. EL | 10uF | 100V | | | ケミコン | 03 |
| | C1064 | WJ609300 | C. MYLAR | 2200pF | 100V | | | マイラーコン | |
| | C1065 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1066 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1066 | WN165500 | C. PP | 0. 022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1067 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1068 | WE100200 | C. PP | 22pF | 630V K | | | ＰＰコン | 01 |
| ⚠ | C1069 | UR397220 | C. EL | 22uF | 100V | | | ケミコン | |
| | C1071 | WE100400 | C. PP | 47pF | 630V K | | | ＰＰコン | |
| | C1072 | WJ611000 | C. MYLAR | 0. 047uF | 100V | | JKBGFL | マイラーコン | |
| | C1072 | WP421000 | C. PP | 0. 047uF | 100V | | UCRTA | ＰＰコン | |
| | C1073 | WK041800 | C. EL | 10uF | 16V | | | ケミコン | 01 |
| | C1075 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |
| | C1076 | UR058100 | C. EL | 100uF | 35V | | | ケミコン | 01 |
| | C1077 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1077 | WN165500 | C. PP | 0. 022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1078 | WJ608300 | C. MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1079 | UR397100 | C. EL | 10uF | 100V | | | ケミコン | 03 |
| | C1080 | WJ608300 | C. MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1081 | WJ610200 | C. MYLAR | 0. 01uF | 100V | | | マイラーコン | 01 |

＊New Parts　＊新規部品

# MAIN

| | Ref No. | Part No. | Description | | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|---|
| | C1082 | WJ610600 | C.MYLAR | 0.022uF | 100V | | JKBGFL | マイラーコン | 01 |
| | C1082 | WN165500 | C.PP | 0.022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1083 | WJ610200 | C.MYLAR | 0.01uF | 100V | | | マイラーコン | 01 |
| | C1087 | WJ609300 | C.MYLAR | 2200pF | 100V | | | マイラーコン | |
| | C1088 | WE100200 | C.PP | 22pF | 630V K | | | ＰＰコン | 01 |
| ⚠ | C1091 | UR397220 | C.EL | 22uF | 100V | | | ケミコン | |
| | C1093 | WE100400 | C.PP | 47pF | 630V K | | | ＰＰコン | |
| | C1094 | WJ611000 | C.MYLAR | 0.047uF | 100V | | JKBGFL | マイラーコン | |
| | C1094 | WP421000 | C.PP | 0.047uF | 100V | | UCRTA | ＰＰコン | |
| | C1095 | WK041800 | C.EL | 10uF | 16V | | | ケミコン | 01 |
| | C1098 | UR058100 | C.EL | 100uF | 35V | | | ケミコン | 01 |
| | C1099-1100 | WJ608300 | C.MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1101 | WE100900 | C.PP | 220pF | 630V K | | | ＰＰコン | 02 |
| | C1102 | WJ608900 | C.MYLAR | 1000pF | 100V | | | マイラーコン | 01 |
| | C1103 | UR397100 | C.EL | 10uF | 100V | | | ケミコン | 03 |
| | C1104 | WJ609300 | C.MYLAR | 2200pF | 100V | | | マイラーコン | |
| | C1105-1106 | WJ788600 | C.EL | 12000uF | 71V | | | ケミコン | 08 |
| | C1107 | WE100200 | C.PP | 22pF | 630V K | | | ＰＰコン | 01 |
| ⚠ | C1108 | UR397220 | C.EL | 22uF | 100V | | | ケミコン | |
| | C1110 | WE100400 | C.PP | 47pF | 630V K | | | ＰＰコン | |
| | C1111 | WJ611000 | C.MYLAR | 0.047uF | 100V | | JKBGFL | マイラーコン | |
| | C1111 | WP421000 | C.PP | 0.047uF | 100V | | UCRTA | ＰＰコン | |
| | C1112 | WK041800 | C.EL | 10uF | 16V | | | ケミコン | 01 |
| | C1114 | UR058100 | C.EL | 100uF | 35V | | | ケミコン | 01 |
| | C1115 | WJ608300 | C.MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1116 | UR397100 | C.EL | 10uF | 100V | | | ケミコン | 03 |
| | C1117 | WJ608300 | C.MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1118 | WQ209700 | C.PP | 0.027uF | 100V | | JKBGFL | ＰＰコン | |
| | C1118 | WN165500 | C.PP | 0.022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1119 | WQ209700 | C.PP | 0.027uF | 100V | | JKBGFL | ＰＰコン | |
| | C1119 | WN165500 | C.PP | 0.022uF | 100V | | UCRTA | ＰＰコン | 01 |
| | C1120 | WJ609300 | C.MYLAR | 2200pF | 100V | | | マイラーコン | |
| | C1121 | WE100200 | C.PP | 22pF | 630V K | | | ＰＰコン | 01 |
| ⚠ | C1122 | UR397220 | C.EL | 22uF | 100V | | | ケミコン | |
| | C1124 | WE100400 | C.PP | 47pF | 630V K | | | ＰＰコン | |
| | C1125 | WJ611000 | C.MYLAR | 0.047uF | 100V | | JKBGFL | マイラーコン | |
| | C1125 | WP421000 | C.PP | 0.047uF | 100V | | UCRTA | ＰＰコン | |
| | C1126 | WK041800 | C.EL | 10uF | 16V | | | ケミコン | 01 |
| | C1128 | UR058100 | C.EL | 100uF | 35V | | | ケミコン | 01 |
| | C1129-1130 | WJ608300 | C.MYLAR | 220pF | 100V | | | マイラーコン | |
| | C1131 | UR397100 | C.EL | 10uF | 100V | | JKBGFL | ケミコン | 03 |
| | C1131 | UR297220 | C.EL | 22uF | 100V | | UCRTA | ケミコン | 01 |
| | C1132 | UR397100 | C.EL | 10uF | 100V | | JKBGFL | ケミコン | 03 |
| | C1132 | UR297220 | C.EL | 22uF | 100V | | UCRTA | ケミコン | 01 |
| | C1133-1134 | US135100 | C.CE.CHP | 0.1uF | 16V | | | チップセラコン | 01 |
| | C1135 | UR067470 | C.EL | 47uF | 50V | | | ケミコン | 01 |
| | C1136 | UR238220 | C.EL | 220uF | 16V | | | ケミコン | 01 |
| | C1137 | UR348100 | C.EL | 100uF | 25V | | | ケミコン | 01 |
| | D1008 | WW783900 | DIODE | 1SS355VM | | | | ダイオード | |
| ⚠ | D1010 | VG437500 | DIODE.ZENR | MTZJ5.1C | 5.1V | | | ツェナーダイオード | 01 |
| | D1011-1012 | VH282500 | DIODE | RLS245 | | | | ダイオード | 01 |
| | D1013 | WW783900 | DIODE | 1SS355VM | | | | ダイオード | |
| | D1018-1019 | WW783900 | DIODE | 1SS355VM | | | | ダイオード | |
| ⚠ | D1020 | VG437500 | DIODE.ZENR | MTZJ5.1C | 5.1V | | | ツェナーダイオード | 01 |
| | D1021-1022 | WW783900 | DIODE | 1SS355VM | | | | ダイオード | |
| | D1023-1024 | VH282500 | DIODE | RLS245 | | | | ダイオード | 01 |
| | D1025 | WW783900 | DIODE | 1SS355VM | | | | ダイオード | |

※ New Parts ＊新規部品

# MAIN

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|
| ⚠ | D1028 | VG437500 | DIODE.ZENR | MTZJ5.1C 5.1V | | | ツェナーダイオード | 01 |
| | D1029 | VH282500 | DIODE | RLS245 | | | ダイオード | 01 |
| | D1030 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D1031 | VH282500 | DIODE | RLS245 | | | ダイオード | 01 |
| ⚠ | D1034 | VG437500 | DIODE.ZENR | MTZJ5.1C 5.1V | | | ツェナーダイオード | 01 |
| | D1035-1036 | VH282500 | DIODE | RLS245 | | | ダイオード | 01 |
| | D1037 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| ⚠ | D1040 | VG437500 | DIODE.ZENR | MTZJ5.1C 5.1V | | | ツェナーダイオード | 01 |
| | D1041-1042 | VH282500 | DIODE | RLS245 | | | ダイオード | 01 |
| | D1043 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| ⚠ | D1046 | VG437500 | DIODE.ZENR | MTZJ5.1C 5.1V | | | ツェナーダイオード | 01 |
| | D1047-1048 | VH282500 | DIODE | RLS245 | | | ダイオード | 01 |
| | D1049 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| ⚠ | D1050 | WK611100 | DIODE.BRG | D6SBN20 6A 200V | | | ブリッジダイオード | 05 |
| | D1053 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| ⚠ | D1055 | VG437500 | DIODE.ZENR | MTZJ5.1C 5.1V | | | ツェナーダイオード | 01 |
| | D1056-1057 | VH282500 | DIODE | RLS245 | | | ダイオード | 01 |
| | D1058 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D1061 | WS693600 | DIODE.ZENR | HZU4.7B2 TRF-E | | | ツェナーダイオード | |
| | D1062-1063 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D1064-1067 | WW783900 | DIODE | 1SS355VM | | C | ダイオード | |
| | D1068-1081 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | G1001 | V5995800 | PLATE.GND | | | | アースプレート | |
| | IC101 | X7779A00 | IC | LC709004A-TLM-E | | | ロジックＩＣ | 04 |
| | IC102-103 | YA381A00 | IC | LM19CIZ/LF THERMAL | | JURTKABGFL | 電源ＩＣ | 04 |
| | PN1-6 | WS488500 | STYLE.PIN | L=90 #18 | | | スタイルピン | 01 |
| | Q1005 | WH372100 | TR | KTA1517S GR TP | | | トランジスタ | 01 |
| ⚠ ＊ | Q1009-1010 | WW510000 | TR | KTA1659A-Y-U/PF | | | トランジスタ | |
| | Q1013 | WC435100 | TR.DGT | KRC104S-RTK | | | デジタルトランジスタ | 01 |
| ⚠ | Q1015 | WT919900 | TR.PAIR | STD01P/N,O,Y | | | ペアトランジスタ | 07 |
| | Q1016 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1017 | WH372100 | TR | KTA1517S GR TP | | | トランジスタ | 01 |
| | Q1018 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1019 | WU085300 | TR | 2SA1208S/T-AE | | | トランジスタ | 01 |
| | Q1020 | WC434900 | TR.DGT | KRA104S-RTK | | | デジタルトランジスタ | 01 |
| | Q1022 | WH199400 | TR.ARRAY | HN4C06J | | | トランジスタアレイ | 01 |
| ⚠ | Q1025 | WU085400 | TR | 2SC2910S/T-AE | | | トランジスタ | 01 |
| | Q1029 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1030-1031 | WC435100 | TR.DGT | KRC104S-RTK | | | デジタルトランジスタ | 01 |
| | Q1032-1033 | WC434900 | TR.DGT | KRA104S-RTK | | | デジタルトランジスタ | 01 |
| ⚠ | Q1034 | WT919900 | TR.PAIR | STD01P/N,O,Y | | | ペアトランジスタ | 07 |
| | Q1035 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1036 | WH372100 | TR | KTA1517S GR TP | | | トランジスタ | 01 |
| | Q1037 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1038 | WU085300 | TR | 2SA1208S/T-AE | | | トランジスタ | 01 |
| | Q1039-1040 | WC435100 | TR.DGT | KRC104S-RTK | | | デジタルトランジスタ | 01 |
| | Q1041-1042 | WC434900 | TR.DGT | KRA104S-RTK | | | デジタルトランジスタ | 01 |
| | Q1043 | WH199400 | TR.ARRAY | HN4C06J | | | トランジスタアレイ | 01 |
| ⚠ | Q1044 | WU085400 | TR | 2SC2910S/T-AE | | | トランジスタ | 01 |
| | Q1046-1047 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| ⚠ | Q1048 | WT919900 | TR.PAIR | STD01P/N,O,Y | | | ペアトランジスタ | 07 |
| | Q1049 | WH372100 | TR | KTA1517S GR TP | | | トランジスタ | 01 |
| | Q1050 | WU085300 | TR | 2SA1208S/T-AE | | | トランジスタ | 01 |
| | Q1051 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1052 | WH199400 | TR.ARRAY | HN4C06J | | | トランジスタアレイ | 01 |
| ⚠ | Q1053 | WU085400 | TR | 2SC2910S/T-AE | | | トランジスタ | 01 |
| | Q1054 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |

＊New Parts ＊新規部品

# MAIN

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| ⚠ | Q1056 | WT919900 | TR. PAIR | STD01P/N,O,Y | | | ペアトランジスタ | 07 |
| | Q1057 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1058 | WH372100 | TR | KTA1517S GR TP | | | トランジスタ | 01 |
| | Q1059 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| ⚠ | Q1060 | WU085300 | TR | 2SA1208S/T-AE | | | トランジスタ | 01 |
| | Q1061 | WH199400 | TR. ARRAY | HN4C06J | | | トランジスタアレイ | 01 |
| ⚠ | Q1062 | WU085400 | TR | 2SC2910S/T-AE | | | トランジスタ | 01 |
| | Q1064 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| ⚠ | Q1065 | WT919900 | TR. PAIR | STD01P/N,O,Y | | | ペアトランジスタ | 07 |
| | Q1066 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1067 | WH372100 | TR | KTA1517S GR TP | | | トランジスタ | 01 |
| | Q1068 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1069 | WU085300 | TR | 2SA1208S/T-AE | | | トランジスタ | 01 |
| | Q1070 | WH199400 | TR. ARRAY | HN4C06J | | | トランジスタアレイ | 01 |
| ⚠ | Q1071 | WU085400 | TR | 2SC2910S/T-AE | | | トランジスタ | 01 |
| | Q1073 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| ⚠ | Q1074 | WT919900 | TR. PAIR | STD01P/N,O,Y | | | ペアトランジスタ | 07 |
| | Q1075 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1076 | WH372100 | TR | KTA1517S GR TP | | | トランジスタ | 01 |
| | Q1077 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1078 | WU085300 | TR | 2SA1208S/T-AE | | | トランジスタ | 01 |
| | Q1079 | WH199400 | TR. ARRAY | HN4C06J | | | トランジスタアレイ | 01 |
| ⚠ | Q1080 | WU085400 | TR | 2SC2910S/T-AE | | | トランジスタ | 01 |
| | Q1081 | WC435100 | TR. DGT | KRC104S-RTK | | | デジタルトランジスタ | 01 |
| | Q1083 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1084 | WC434900 | TR. DGT | KRA104S-RTK | | | デジタルトランジスタ | 01 |
| ⚠ | Q1087 | WT919900 | TR. PAIR | STD01P/N,O,Y | | | ペアトランジスタ | 07 |
| | Q1088 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1089 | WH372100 | TR | KTA1517S GR TP | | | トランジスタ | 01 |
| | Q1090 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1091 | WU085300 | TR | 2SA1208S/T-AE | | | トランジスタ | 01 |
| | Q1092 | WH199400 | TR. ARRAY | HN4C06J | | | トランジスタアレイ | 01 |
| ⚠ | Q1093 | WU085400 | TR | 2SC2910S/T-AE | | | トランジスタ | 01 |
| | Q1095 | WF549900 | TR | 2SC3906K T146 R,S | | | トランジスタ | 01 |
| | Q1096-1097 | WC398400 | TR | 2N5551C-AT | | | トランジスタ | 01 |
| | Q1098 | WC397700 | TR | 2N5401C-AT | | | トランジスタ | 01 |
| | Q1099-1105 | WU085400 | TR | 2SC2910S/T-AE | | | トランジスタ | 01 |
| ⚠ ＊ | R1008-1009 | WW966900 | R. MTL. OXD | 10Ω 1/4W | | | 酸化金属被膜抵抗 | |
| ⚠ | R1032 | V8070300 | R. MTL. FLM | 10Ω 1W | | | 金属被膜抵抗 | 01 |
| | R1033 | WW863300 | R. CAR. FP | 100Ω 1/4W | | JKBGFL | 不燃化カーボン抵抗 | |
| ＊ | R1033 | WW969300 | R. MTL. OXD | 100Ω 1/4W | | UCRTA | 酸化金属被膜抵抗 | |
| ＊ | R1037 | WW861700 | R. CAR. FP | 4.7Ω 1/4W | | | 不燃化カーボン抵抗 | |
| ⚠ | R1041 | WU208600 | R. WW | 0.22Ωx2 RF3EGJR22 | | | セメント抵抗 | |
| | R1045 | V8072600 | R. MTL. OXD | 33KΩ 1W | | | 酸化金属被膜抵抗 | |
| | R1046 | HF355220 | R. CAR | 220Ω 1/2W | | | カーボン抵抗 | |
| | R1052 | V8070200 | R. MTL. FLM | 4.7Ω 1W | | | 金属被膜抵抗 | |
| | R1055 | WW970100 | R. MTL. OXD | 220Ω 1/4W | | | 酸化金属被膜抵抗 | |
| | R1056 | HL006120 | R. MTL. OXD | 1.2KΩ 1/2W | | | 酸化金属被膜抵抗 | 01 |
| ⚠ | R1062 | V8070300 | R. MTL. FLM | 10Ω 1W | | | 金属被膜抵抗 | 01 |
| | R1063 | WW863300 | R. CAR. FP | 100Ω 1/4W | | JKBGFL | 不燃化カーボン抵抗 | |
| ＊ | R1063 | WW969300 | R. MTL. OXD | 100Ω 1/4W | | UCRTA | 酸化金属被膜抵抗 | |
| ＊ | R1067 | WW861700 | R. CAR. FP | 4.7Ω 1/4W | | | 不燃化カーボン抵抗 | |
| ⚠ | R1071 | WU208600 | R. WW | 0.22Ωx2 RF3EGJR22 | | | セメント抵抗 | |
| | R1075 | V8072600 | R. MTL. OXD | 33KΩ 1W | | | 酸化金属被膜抵抗 | |
| | R1076 | HF355220 | R. CAR | 220Ω 1/2W | | | カーボン抵抗 | |
| ⚠ | R1079 | V8070000 | R. MTL. FLM | 1Ω 1W | | | 金属被膜抵抗 | 01 |
| | R1083 | V8070200 | R. MTL. FLM | 4.7Ω 1W | | | 金属被膜抵抗 | |

＊New Parts ＊新規部品

# MAIN

| | Ref No. | Part No. | Description | | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|---|
| ⚠ | R1086 | WW970100 | R. MTL. OXD | 220Ω | 1/4W | | | 酸化金属被膜抵抗 | |
| | R1087 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| | R1088 | HL006120 | R. MTL. OXD | 1. 2KΩ | 1/2W | | | 酸化金属被膜抵抗 | 01 |
| | R1091 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| | R1094 | WW863300 | R. CAR. FP | 100Ω | 1/4W | | JKBGFL | 不燃化カーボン抵抗 | |
| * | R1094 | WW969300 | R. MTL. OXD | 100Ω | 1/4W | | UCRTA | 酸化金属被膜抵抗 | |
| ⚠ | R1096 | V8070300 | R. MTL. FLM | 10Ω | 1W | | | 金属被膜抵抗 | 01 |
| | R1097 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| * | R1101-1103 | HF353470 | R. CAR | 4. 7Ω | 1/2W | | | カーボン抵抗 | |
| | R1104 | WW861700 | R. CAR. FP | 4. 7Ω | 1/4W | | | 不燃化カーボン抵抗 | |
| | R1107 | V8072600 | R. MTL. OXD | 33KΩ | 1W | | | 酸化金属被膜抵抗 | |
| | R1108 | HF355220 | R. CAR | 220Ω | 1/2W | | | カーボン抵抗 | |
| ⚠ | R1111 | WU208600 | R. WW | 0. 22Ωx2 | RF3EGJR22 | | | セメント抵抗 | |
| | R1114 | HF353470 | R. CAR | 4. 7Ω | 1/2W | | | カーボン抵抗 | |
| | R1118 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| | R1121 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| | R1123 | HL006120 | R. MTL. OXD | 1. 2KΩ | 1/2W | | | 酸化金属被膜抵抗 | 01 |
| ⚠ | R1124 | WW970100 | R. MTL. OXD | 220Ω | 1/4W | | | 酸化金属被膜抵抗 | |
| | R1127 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| | R1130 | HF353470 | R. CAR | 4. 7Ω | 1/2W | | | カーボン抵抗 | |
| | R1133 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| | R1134 | WW863300 | R. CAR. FP | 100Ω | 1/4W | | JKBGFL | 不燃化カーボン抵抗 | |
| * | R1134 | WW969300 | R. MTL. OXD | 100Ω | 1/4W | | UCRTA | 酸化金属被膜抵抗 | |
| ⚠ | R1136 | V8070300 | R. MTL. FLM | 10Ω | 1W | | | 金属被膜抵抗 | 01 |
| | R1140 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| * | R1141 | WW861700 | R. CAR. FP | 4. 7Ω | 1/4W | | | 不燃化カーボン抵抗 | |
| | R1144 | HF353470 | R. CAR | 4. 7Ω | 1/2W | | | カーボン抵抗 | |
| ⚠ | R1146 | WU208600 | R. WW | 0. 22Ωx2 | RF3EGJR22 | | | セメント抵抗 | |
| | R1150 | V8072600 | R. MTL. OXD | 33KΩ | 1W | | | 酸化金属被膜抵抗 | |
| | R1151 | HF355220 | R. CAR | 220Ω | 1/2W | | | カーボン抵抗 | |
| ⚠ | R1153 | V8070000 | R. MTL. FLM | 1Ω | 1W | | | 金属被膜抵抗 | 01 |
| | R1158-1159 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| ⚠ | R1162 | WW970100 | R. MTL. OXD | 220Ω | 1/4W | | | 酸化金属被膜抵抗 | |
| | R1163 | HL006120 | R. MTL. OXD | 1. 2KΩ | 1/2W | | | 酸化金属被膜抵抗 | 01 |
| | R1164 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| | R1168 | HF353470 | R. CAR | 4. 7Ω | 1/2W | | | カーボン抵抗 | |
| | R1171 | WW863300 | R. CAR. FP | 100Ω | 1/4W | | JKBGFL | 不燃化カーボン抵抗 | |
| * | R1171 | WW969300 | R. MTL. OXD | 100Ω | 1/4W | | UCRTA | 酸化金属被膜抵抗 | |
| ⚠ | R1173 | V8070300 | R. MTL. FLM | 10Ω | 1W | | | 金属被膜抵抗 | 01 |
| * | R1178 | WW861700 | R. CAR. FP | 4. 7Ω | 1/4W | | | 不燃化カーボン抵抗 | |
| ⚠ | R1183 | WU208600 | R. WW | 0. 22Ωx2 | RF3EGJR22 | | | セメント抵抗 | |
| | R1187 | V8072600 | R. MTL. OXD | 33KΩ | 1W | | | 酸化金属被膜抵抗 | |
| | R1188 | HF355220 | R. CAR | 220Ω | 1/2W | | | カーボン抵抗 | |
| | R1195 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| ⚠ | R1198 | WW970100 | R. MTL. OXD | 220Ω | 1/4W | | | 酸化金属被膜抵抗 | |
| | R1199 | HL006120 | R. MTL. OXD | 1. 2KΩ | 1/2W | | | 酸化金属被膜抵抗 | 01 |
| | R1202 | HF353470 | R. CAR | 4. 7Ω | 1/2W | | | カーボン抵抗 | |
| ⚠ | R1206 | V8070300 | R. MTL. FLM | 10Ω | 1W | | | 金属被膜抵抗 | 01 |
| | R1207 | WW863300 | R. CAR. FP | 100Ω | 1/4W | | JKBGFL | 不燃化カーボン抵抗 | |
| * | R1207 | WW969300 | R. MTL. OXD | 100Ω | 1/4W | | UCRTA | 酸化金属被膜抵抗 | |
| * | R1211 | WW861700 | R. CAR. FP | 4. 7Ω | 1/4W | | | 不燃化カーボン抵抗 | |
| ⚠ | R1215 | WU208600 | R. WW | 0. 22Ωx2 | RF3EGJR22 | | | セメント抵抗 | |
| | R1219 | V8072600 | R. MTL. OXD | 33KΩ | 1W | | | 酸化金属被膜抵抗 | |
| | R1220 | HF355220 | R. CAR | 220Ω | 1/2W | | | カーボン抵抗 | |
| ⚠ | R1222 | V8070000 | R. MTL. FLM | 1Ω | 1W | | | 金属被膜抵抗 | 01 |
| | R1227 | V8070200 | R. MTL. FLM | 4. 7Ω | 1W | | | 金属被膜抵抗 | |
| ⚠ | R1230 | WW970100 | R. MTL. OXD | 220Ω | 1/4W | | | 酸化金属被膜抵抗 | |

※ New Parts ＊新規部品

## MAIN and POWER

| | Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|
| | R1231 | HL006120 | R. MTL. OXD 1. 2KΩ 1/2W | | | 酸化金属被膜抵抗 | 01 |
| ⚠ | R1237 | V8070300 | R. MTL. FLM 10Ω 1W | | | 金属被膜抵抗 | 01 |
| | R1238 | WW863300 | R. CAR. FP 100Ω 1/4W | | JKBGFL | 不燃化カーボン抵抗 | |
| * | R1238 | WW969300 | R. MTL. OXD 100Ω 1/4W | | UCRTA | 酸化金属被膜抵抗 | |
| * | R1244 | WW861700 | R. CAR. FP 4. 7Ω 1/4W | | | 不燃化カーボン抵抗 | |
| ⚠ | R1250 | WU208600 | R. WW 0. 22Ωx2 RF3EGJR22 | | | セメント抵抗 | |
| | R1256 | V8072600 | R. MTL. OXD 33KΩ 1W | | | 酸化金属被膜抵抗 | |
| | R1257 | HF355220 | R. CAR 220Ω 1/2W | | | カーボン抵抗 | |
| | R1264 | V8070200 | R. MTL. FLM 4. 7Ω 1W | | | 金属被膜抵抗 | |
| ⚠ | R1267 | WW970100 | R. MTL. OXD 220Ω 1/4W | | | 酸化金属被膜抵抗 | |
| | R1268 | HL006120 | R. MTL. OXD 1. 2KΩ 1/2W | | | 酸化金属被膜抵抗 | 01 |
| | R1280 | V8072100 | R. MTL. OXD 5. 6KΩ 1W | | | 酸化金属被膜抵抗 | |
| | R1282 | WW971100 | R. MTL. OXD 560Ω 1/4W | | | 酸化金属被膜抵抗 | |
| | R1286 | V8072000 | R. MTL. OXD 4. 7KΩ 1W | | | 酸化金属被膜抵抗 | |
| | R1289 | HF353220 | R. CAR 2. 2Ω 1/2W | | | カーボン抵抗 | |
| ⚠ | R1294-1300 | WW970100 | R. MTL. OXD 220Ω 1/4W | | | 酸化金属被膜抵抗 | |
| ⚠ | R1317-1323 | V8070300 | R. MTL. FLM 10Ω 1W | | | 金属被膜抵抗 | 01 |
| | RY102 | WJ122400 | RELAY 981-2A-24DS-SP7 | | | リレー ２４Ｖ | 04 |
| | RY105-108 | WJ122400 | RELAY 981-2A-24DS-SP7 | | | リレー ２４Ｖ | 04 |
| | RY109 | WE648700 | RELAY DC DH24D2-O-Q | | | リレー ２４Ｖ | 06 |
| | ST101 | V4040500 | SCR. TERM M3 | | | スクリューターミナル | 01 |
| | TE101 | WU729200 | TERM. SP 6P MST-226VD-01 | | JUCRTA | スピーカー端子 | 05 |
| | TE101 | WU729600 | TERM. SP 6P MST-226VD-01 | | KBGFL | スピーカー端子 | |
| | TE102 | WU730100 | TERM. SP 4P MST-224VD-01-76 | | JUCRTA | スピーカー端子 | 04 |
| | TE102 | WU730300 | TERM. SP 4P MST-224VD-01-76 | | KBGFL | スピーカー端子 | |
| | TE103 | WU730100 | TERM. SP 4P MST-224VD-01-76 | | JUCRTA | スピーカー端子 | 04 |
| | TE103 | WU730300 | TERM. SP 4P MST-224VD-01-76 | | KBGFL | スピーカー端子 | |
| | TE104 | WU730100 | TERM. SP 4P MST-224VD-01-76 | | JUCRTA | スピーカー端子 | 04 |
| | TE104 | WU730300 | TERM. SP 4P MST-224VD-01-76 | | KBGFL | スピーカー端子 | |
| | TH101-104 | WT698300 | THERMISTOR WC92NA103J1 | | C | ＮＴＣサーミスタ | |
| | | WE774200 | SCR. BND. HD 3x10 MFZN2W3 | | | バインドＢタイトネジ | 01 |
| | | WW282900 | DAMPER 10x60x1 | | JKBGFL | ダンパー | 01 |
| * | | WY510000 | P. C. B. POWER | | J | ＰＣＢ ＰＯＷＥＲ | |
| * | | WY510100 | P. C. B. POWER | | U | ＰＣＢ ＰＯＷＥＲ | |
| * | | WY510200 | P. C. B. POWER | | C | ＰＣＢ ＰＯＷＥＲ | |
| * | | WY510300 | P. C. B. POWER | | R | ＰＣＢ ＰＯＷＥＲ | |
| * | | WY510400 | P. C. B. POWER | | T | ＰＣＢ ＰＯＷＥＲ | |
| * | | WY510500 | P. C. B. POWER | | K | ＰＣＢ ＰＯＷＥＲ | |
| * | | WY510600 | P. C. B. POWER | | A | ＰＣＢ ＰＯＷＥＲ | |
| * | | WY510700 | P. C. B. POWER | | BGF | ＰＣＢ ＰＯＷＥＲ | |
| * | | WY510800 | P. C. B. POWER | | L | ＰＣＢ ＰＯＷＥＲ | |
| | CB204-205 | WN103000 | CLIP. FUSE TP00351-31 | | | ヒューズクリップ | 01 |
| ⚠ | CB206 | VG879900 | CN. BS. PIN 2P | | | コネクター | 01 |
| | CB253-254 | WN103000 | CLIP. FUSE TP00351-31 | | R | ヒューズクリップ | 01 |
| ⚠ | CB255 | V9377900 | CN. BS. PIN 4P | | R | コネクター | |
| | C2001 | WU536600 | C. POL. MTL 0. 047uF 630V | | JUC | メタライズドポリコン | |
| | C2001 | WQ852400 | C. POL. MTL 0. 022uF 630V | | RTKABGFL | メタライズドポリコン | 01 |
| | C2003 | WU536600 | C. POL. MTL 0. 047uF 630V | | JUC | メタライズドポリコン | |
| | C2003 | WQ852400 | C. POL. MTL 0. 022uF 630V | | RTKABGFL | メタライズドポリコン | 01 |
| ⚠ | C2004 | V6150400 | C. CE. SAFTY 0. 068uF 250V | | | 規格認定コンデンサ | |
| ⚠ | C2005-2006 | WH035900 | C. CE. SAFTY 1000pF 250V | | | 規格認定コンデンサ | 01 |

＊New Parts ＊新規部品

# POWER

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|
| ⚠ | C2007 | V6150400 | C.CE.SAFTY | 0.068uF 250V | | J | 規格認定コンデンサ | |
| ⚠ | C2007 | WR977400 | C.CE.SAFTY | 0.022uF 250V | | UCRTKABGFL | 規格認定コンデンサ | |
| | C2008 | US063100 | C.CE.CHP | 1000pF 50V B | | | チップセラコン | 01 |
| | C2009 | US065100 | C.CE.CHP | 0.1uF 50V B | | | チップセラコン | 01 |
| | C2010 | WP340600 | C.EL | 47uF 35V | | | ケミコン | 01 |
| | C2011 | US065100 | C.CE.CHP | 0.1uF 50V B | | | チップセラコン | 01 |
| | C2012 | WQ286600 | C.CE.CHP | 0.22uF 50V | | | チップセラコン | 01 |
| | C2013 | US065100 | C.CE.CHP | 0.1uF 50V B | | | チップセラコン | 01 |
| | C2014 | UB214470 | C.CE.CHP | 0.047uF 25V | | | チップセラコン | 01 |
| | C2015 | US063220 | C.CE.CHP | 2200pF 50V B | | | チップセラコン | 01 |
| | C2016 | WU898700 | C.EL | 390uF 200V | | JUC | ケミコン | |
| | C2016 | WU464200 | C.EL | 390uF 400V | | R | ケミコン | |
| | C2016 | WU898800 | C.EL | 100uF 400V | | TKABGFL | ケミコン | |
| | C2017 | WP340600 | C.EL | 47uF 35V | | | ケミコン | 01 |
| | C2018 | WJ322300 | C.CE.M.CHP | 1000pF 630V | | | チップ積層セラコン | 01 |
| ⚠ | C2019 | WH035900 | C.CE.SAFTY | 1000pF 250V | | | 規格認定コンデンサ | 01 |
| | C2020 | WK413800 | C.CE.M.CHP | 1000pF 250V | | | チップ積層セラコン | 01 |
| | C2021 | WU278700 | C.EL | 820uF 35V | | | ケミコン | |
| | C2022 | US064100 | C.CE.CHP | 0.01uF 50V B | | | チップセラコン | 01 |
| | C2023 | US063220 | C.CE.CHP | 2200pF 50V B | | UCRTKABGFL | チップセラコン | 01 |
| | C2024 | WU278700 | C.EL | 820uF 35V | | | ケミコン | |
| | C2025 | V7887800 | C.EL | 1uF 50V | | | ケミコン | |
| | C2026 | WU278700 | C.EL | 820uF 35V | | | ケミコン | |
| | C2028 | UR837220 | C.EL | 22uF 16V | | | ケミコン | 01 |
| | C2029 | WN951300 | C.EL | 10uF 16V | | | ケミコン | 01 |
| | C2031-2032 | US064100 | C.CE.CHP | 0.01uF 50V B | | | チップセラコン | 01 |
| | C2033 | US035100 | C.CE.CHP | 0.1uF 16V B | | | チップセラコン | 01 |
| | C2035 | WQ072600 | C.EL | 220uF 35V | | | ケミコン | 01 |
| | C2036 | US065100 | C.CE.CHP | 0.1uF 50V B | | | チップセラコン | 01 |
| | C2037 | US063220 | C.CE.CHP | 2200pF 50V B | | UCRTKABGFL | チップセラコン | 01 |
| | C2038 | WJ322300 | C.CE.M.CHP | 1000pF 630V | | | チップ積層セラコン | 01 |
| | C2043 | US035100 | C.CE.CHP | 0.1uF 16V B | | | チップセラコン | 01 |
| | C2044 | US126100 | C.CE.CHP | 1uF 10V | | | チップセラコン | 01 |
| | C2045 | US065100 | C.CE.CHP | 0.1uF 50V B | | | チップセラコン | 01 |
| ⚠ | C2046 | V5877700 | C.MYLAR | 0.22uF 250V | | J | マイラーコン | 03 |
| | C2047 | US063100 | C.CE.CHP | 1000pF 50V B | | | チップセラコン | 01 |
| | C2048-2049 | US035100 | C.CE.CHP | 0.1uF 16V B | | | チップセラコン | 01 |
| ⚠ | C2051 | WN826300 | C.CE.SAFTY | 0.01uF 250V | | | 規格認定コンデンサ | 01 |
| | C2052 | US126100 | C.CE.CHP | 1uF 10V | | | チップセラコン | 01 |
| ⚠ | D2001 | VN953300 | DIODE.BRG | D5SBA60 5A 600V | | | ブリッジダイオート | 04 |
| | D2002 | VN478200 | DIODE | D1NL20U | | | ダイオード | 01 |
| * | D2003 | WY164700 | DIODE.ZENR | UDZV22B | | | ツェナーダイオード | |
| | D2004 | WN672400 | DIODE.ZENR | P6KE200A 200V | | | ツェナーダイオード | 03 |
| | D2006 | WJ151900 | DIODE | STTH110A | | | ダイオード | 03 |
| | D2007 | VV463000 | DIODE.CHP | 1.1A 200V D1FL20U | | | チップダイオード | 01 |
| | D2009 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D2010 | WJ458600 | DIODE.SCHOTTKY | RB215T-60 20A 60V | | | ショットキーダイオード | |
| | D2011-2015 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| * | D2016 | WY163700 | DIODE.ZENR | UDZV8.2B | | | ツェナーダイオード | |
| | D2017 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| ⚠ | F2001 | WR944000 | FUSE | 2A 250V | | | ヒューズ | |
| ⚠ | F2003 | WQ211200 | FUSE | 10A 125V | | JUCR | ヒューズ | 01 |
| ⚠ | F2003 | WB760600 | FUSE | T6.3A 250V | | TKABGFL | ヒューズ | 01 |
| ⚠ | F2500 | WB760600 | FUSE | T6.3A 250V | | R | ヒューズ | 01 |
| | IC201 | X9806A00 | IC | L6566BTR SW DENGEN | | | 電源ＩＣ | 04 |
| ⚠ | IC202-204 | WP388200 | PHOT.CPL | TLP781(D4-GR,F) | | | フォトカプラ | 01 |
| | IC205 | X6770A00 | IC | NJM431U(TE1) | | | 電源ＩＣ | 01 |

＊New Parts ＊新規部品

## POWER and VIDEO

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| | IC207 | X8147A00 | IC | R3112N421A-TR-F | | | ロジックＩＣ | 01 |
| ⚠ | Q2001 | WT687800 | FET | STF9NK90Z 8.0A ST | | | ＦＥＴ | 07 |
| | Q2002 | iC1815I0 | TR | 2SC1815 Y | | | トランジスタ | 01 |
| | Q2003 | VV655700 | TR.DGT | DTC144EKA | | | デジタルトランジスタ | 01 |
| | Q2004 | WC529400 | TR | KTC3875S Y GR RTK | | | トランジスタ | 01 |
| | R2025 | WQ526100 | R.CEMENT | 0.33Ω 3W | | | セメント抵抗 | |
| | R2025 | WU985400 | R.WW | 0.27Ω 3W K | | JUCR | セメント抵抗 | |
| | R2025 | WQ526100 | R.CEMENT | 0.33Ω 3W | | TKABGFL | セメント抵抗 | |
| | R2026 | WU985400 | R.WW | 0.27Ω 3W K | | | セメント抵抗 | |
| ⚠ | R2052 | WU547900 | R.OTHER | 3MΩ 1/2W | | | 耐サージ固定抵抗 | |
| ⚠ | RY201 | WQ804100 | RELAY | DC DLS5D1-0(M)0.25 | | | リレー | 04 |
| ⚠ | SW250 | WV382900 | SW.SLIDE | SL14 | | R | スライドスイッチ | |
| ⚠ | T2001 | YC554A00 | TRANS.PWR | ETS0674B | | | サブトランス | |
| ⚠ | TE201 | WB782600 | INLET.AC | R-30190(26) | | | ＡＣインレット ２Ｐ | |
| ⚠ | TH201 | WF544600 | PTC.THERMISTOR | NTPAD5R1LDNB0 5.1 | | | ＰＴＣサーミスタ | 03 |
| | | WE774200 | SCR.BND.HD | 3x10 MFZN2W3 | | | バインドＢタイトネジ | 01 |
| * | | WY514400 | P.C.B. | VIDEO | | J | ＰＣＢ ＶＩＤＥＯ | |
| * | | WY514500 | P.C.B. | VIDEO | | U | ＰＣＢ ＶＩＤＥＯ | |
| * | | WY514600 | P.C.B. | VIDEO | | CRTKAL | ＰＣＢ ＶＩＤＥＯ | |
| * | | WY514700 | P.C.B. | VIDEO | | BGF | ＰＣＢ ＶＩＤＥＯ | |
| | CB301 | WD398400 | CN.DIN | 14P YKF45-3011 | | J | ＤＩＮコネクター | 05 |
| | CB302 | VM859700 | CN.BS.PIN | 16P | | | コネクター | 01 |
| | CB303 | VQ047200 | CN.BS.PIN | 9P | | | コネクター | 01 |
| | CB304 | VB389600 | CN.BS.PIN | 11P | | | コネクター | 01 |
| | CB331 | VB858400 | CN.BS.PIN | 5P | | | コネクター | 01 |
| | CB332 | VQ044400 | CN.BS.PIN | 9P | | JCRTKAL | コネクター | 01 |
| | CB333 | VB858300 | CN.BS.PIN | 4P | | | コネクター | 01 |
| | CB334 | VQ044600 | CN.BS.PIN | 13P | | U | コネクター | 01 |
| | CB335 | VQ047500 | CN.BS.PIN | 20P | | | コネクター | 01 |
| | CB351 | VL844700 | CN.BS.PIN | 3P | | | コネクター | 01 |
| | CB352 | VL845000 | CN.BS.PIN | 6P | | | コネクター | 01 |
| | CB361 | LB918020 | CN.BS.PIN | 2P | | | コネクター | 01 |
| | CB362 | VB390300 | CN.BS.PIN | 7P | | | コネクター | 01 |
| | CB371 | V7827100 | SOCKET | 4P TE TUC SERIES | | | コネクターソケット | 01 |
| | CB372 | LB918020 | CN.BS.PIN | 2P | | | コネクター | 01 |
| | CB373 | V7827100 | SOCKET | 4P TE TUC SERIES | | | コネクターソケット | 01 |
| | CB374 | LB918020 | CN.BS.PIN | 2P | | | コネクター | 01 |
| | CB375 | V7827100 | SOCKET | 4P TE TUC SERIES | | | コネクターソケット | 01 |
| | CB376 | LB918020 | CN.BS.PIN | 2P | | | コネクター | 01 |
| | CB377 | V7827100 | SOCKET | 4P TE TUC SERIES | | | コネクターソケット | 01 |
| | CB378 | LB918020 | CN.BS.PIN | 2P | | | コネクター | 01 |
| | CB381 | V7827100 | SOCKET | 4P TE TUC SERIES | | | コネクターソケット | 01 |
| | CB382 | LB918020 | CN.BS.PIN | 2P | | | コネクター | 01 |
| | CB383 | V7827100 | SOCKET | 4P TE TUC SERIES | | | コネクターソケット | 01 |
| | CB384 | LB918020 | CN.BS.PIN | 2P | | | コネクター | 01 |
| | CB385 | V7827100 | SOCKET | 4P TE TUC SERIES | | | コネクターソケット | 01 |
| | CB386 | LB918020 | CN.BS.PIN | 2P | | | コネクター | 01 |
| | C3001-3003 | US060800 | C.CE.CHP | 8pF 50V B | | | チップセラコン | 01 |
| | C3004-3009 | US062100 | C.CE.CHP | 100pF 50V B | | | チップセラコン | 01 |
| | C3010-3017 | US135100 | C.CE.CHP | 0.1uF 16V | | | チップセラコン | 01 |
| | C3018-3020 | WP882000 | C.CE.CHP | 10uF 6.3V | | | チップセラコン | |
| | C3021 | US135100 | C.CE.CHP | 0.1uF 16V | | | チップセラコン | 01 |
| | C3022-3026 | WP882000 | C.CE.CHP | 10uF 6.3V | | | チップセラコン | |
| | C3027-3040 | US135100 | C.CE.CHP | 0.1uF 16V | | | チップセラコン | 01 |

＊New Parts ＊新規部品

# VIDEO

| Ref No. | Part No. | Description | | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| C3041 | WP882000 | C. CE. CHP | 10uF | 6. 3V | | | チップセラコン | |
| C3042 | US135100 | C. CE. CHP | 0. 1uF | 16V | | | チップセラコン | 01 |
| C3043-3046 | WP882000 | C. CE. CHP | 10uF | 6. 3V | | | チップセラコン | |
| C3047-3050 | US135100 | C. CE. CHP | 0. 1uF | 16V | | | チップセラコン | 01 |
| C3051 | US064100 | C. CE. CHP | 0. 01uF | 50V B | | | チップセラコン | 01 |
| C3052 | WP882000 | C. CE. CHP | 10uF | 6. 3V | | | チップセラコン | |
| C3053-3056 | US135100 | C. CE. CHP | 0. 1uF | 16V | | | チップセラコン | 01 |
| C3057 | US062120 | C. CE. CHP | 120pF | 50V B | | | チップセラコン | 01 |
| C3058 | US062220 | C. CE. CHP | 220pF | 50V B | | | チップセラコン | 01 |
| C3059 | US135100 | C. CE. CHP | 0. 1uF | 16V | | | チップセラコン | 01 |
| C3060-3065 | WP882000 | C. CE. CHP | 10uF | 6. 3V | | | チップセラコン | |
| C3066 | US135100 | C. CE. CHP | 0. 1uF | 16V | | | チップセラコン | 01 |
| C3067-3071 | WP882000 | C. CE. CHP | 10uF | 6. 3V | | | チップセラコン | |
| C3072-3076 | US135100 | C. CE. CHP | 0. 1uF | 16V | | | チップセラコン | 01 |
| C3077-3078 | UR067100 | C. EL | 10uF | 50V | | | ケミコン | 01 |
| C3079-3080 | US035100 | C. CE. CHP | 0. 1uF | 16V B | | | チップセラコン | 01 |
| C3084-3086 | US061100 | C. CE. CHP | 10pF | 50V B | | | チップセラコン | 01 |
| C3087-3089 | WP882000 | C. CE. CHP | 10uF | 6. 3V | | | チップセラコン | |
| C3201-3202 | UR018470 | C. EL | 470uF | 6. 3V | | | ケミコン | |
| C3203-3206 | UR067100 | C. EL | 10uF | 50V | | | ケミコン | 01 |
| C3207-3209 | UR037470 | C. EL | 47uF | 16V | | | ケミコン | 01 |
| C3210 | UR067100 | C. EL | 10uF | 50V | | | ケミコン | 01 |
| C3211 | UR037470 | C. EL | 47uF | 16V | | | ケミコン | 01 |
| C3212 | UR067100 | C. EL | 10uF | 50V | | | ケミコン | 01 |
| C3213-3214 | UR037470 | C. EL | 47uF | 16V | | | ケミコン | 01 |
| C3215 | UR038100 | C. EL | 100uF | 16V | | | ケミコン | |
| C3216-3218 | UR037470 | C. EL | 47uF | 16V | | | ケミコン | 01 |
| C3219 | UR067100 | C. EL | 10uF | 50V | | | ケミコン | 01 |
| C3220 | UR037100 | C. EL | 10uF | 16V | | | ケミコン | 01 |
| C3310 | US062100 | C. CE. CHP | 100pF | 50V B | | | チップセラコン | 01 |
| C3312 | US062100 | C. CE. CHP | 100pF | 50V B | | | チップセラコン | 01 |
| C3315 | US135100 | C. CE. CHP | 0. 1uF | 16V | | | チップセラコン | 01 |
| C3316-3317 | US063100 | C. CE. CHP | 1000pF | 50V B | | | チップセラコン | 01 |
| C3320-3322 | US062100 | C. CE. CHP | 100pF | 50V B | | | チップセラコン | 01 |
| C3324 | US063100 | C. CE. CHP | 1000pF | 50V B | | | チップセラコン | 01 |
| C3325-3326 | US062100 | C. CE. CHP | 100pF | 50V B | | | チップセラコン | 01 |
| C3328 | US064100 | C. CE. CHP | 0. 01uF | 50V B | | | チップセラコン | 01 |
| C3351 | UR067100 | C. EL | 10uF | 50V | | U | ケミコン | 01 |
| C3352 | UR038100 | C. EL | 100uF | 16V | | U | ケミコン | |
| C3355 | UR038100 | C. EL | 100uF | 16V | | U | ケミコン | |
| C3358-3359 | UR067100 | C. EL | 10uF | 50V | | | ケミコン | 01 |
| C3360-3361 | UR038100 | C. EL | 100uF | 16V | | | ケミコン | |
| C3365 | UR038100 | C. EL | 100uF | 16V | | | ケミコン | |
| C3501-3504 | WJ610600 | C. MYLAR | 0. 022uF | 100V | | | マイラーコン | 01 |
| C3506-3508 | WJ608900 | C. MYLAR | 1000pF | 100V | | | マイラーコン | 01 |
| C3552 | WQ785400 | C. EL | 6800uF | 25V | | JBGF | ケミコン | 04 |
| C3552 | UR049680 | C. EL | 6800uF | 25V | | UCRTKAL | ケミコン | |
| C3553 | WQ785400 | C. EL | 6800uF | 25V | | JBGF | ケミコン | 04 |
| C3553 | UR049680 | C. EL | 6800uF | 25V | | UCRTKAL | ケミコン | |
| C3554 | WR133600 | C. EL | 3300uF | 25V | | JBGF | ケミコン | |
| C3554 | UR049330 | C. EL | 3300uF | 25V | | CRTKAL | ケミコン | 03 |
| C3556-3557 | UR039680 | C. EL | 6800uF | 16V | | | ケミコン | |
| C3558-3562 | UR067100 | C. EL | 10uF | 50V | | | ケミコン | 01 |
| C3563 | UU239100 | C. EL | 1000uF | 16V | | | ケミコン　FW | 01 |
| C3564-3565 | UU238100 | C. EL | 100uF | 16V | | | ケミコン | 01 |
| C3566-3567 | UR067100 | C. EL | 10uF | 50V | | | ケミコン | 01 |
| C3601 | WH773700 | C. EL | 470uF | 16V | | | ケミコン | |

＊New Parts　＊新規部品

# VIDEO

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|---|
| | C3602 | US044220 | C.CE.CHP | 0.022uF 25V B | | | チップセラコン | 01 |
| | C3603 | WJ608900 | C.MYLAR | 1000pF 100V | | | マイラーコン | 01 |
| | C3604 | WJ611400 | C.MYLAR | 0.1uF 100V J | | | マイラーコン | 01 |
| | C3605 | UR266100 | C.EL | 1uF 50V | | | ケミコン | 01 |
| | C3606 | UR267220 | C.EL | 22uF 50V | | | ケミコン | 01 |
| | C3608 | WJ610200 | C.MYLAR | 0.01uF 100V | | | マイラーコン | 01 |
| | D3001-3008 | WJ586300 | VARISTOR.CHP | SDV1608H100C050YPT | | | チップバリスタ | 01 |
| | D3017-3018 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D3302 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D3303 | WW783900 | DIODE | 1SS355VM | | U | ダイオード | |
| | D3304 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D3306 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D3308 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D3310 | V2598200 | LED | SIR-505ST | | | ＬＥＤ | 01 |
| | D3312 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | D3315 | WS698100 | DIODE.ZENR | HZU15B2 TRF-E | | | ツェナーダイオード | |
| | D3318-3319 | WJ586300 | VARISTOR.CHP | SDV1608H100C050YPT | | | チップバリスタ | 01 |
| ⚠ | D3501 | WN629800 | DIODE.BRG | 4A 60V D4SBS6-7101 | | | ブリッジダイオード | 05 |
| ⚠ | D3503 | WU575300 | DIODE.BRG | D2SBA60-7001 | | | ブリッジダイオード | |
| ＊ | D3505 | WY163400 | DIODE.ZENR | UDZV6.2B | | | ツェナーダイオード | |
| ＊ | D3506-3507 | WY164200 | DIODE.ZENR | UDZV13B | | | ツェナーダイオード | |
| | D3601-3605 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| ＊ | D3606-3607 | WY164700 | DIODE.ZENR | UDZV22B | | | ツェナーダイオード | |
| | D3608-3609 | WW783900 | DIODE | 1SS355VM | | | ダイオード | |
| | IC301-304 | XY549A00 | IC | TC74HC4051AFEL | | | ロジックＩＣ | 02 |
| | IC305 | YC232A00 | IC | NJW1327FU1 | | | ＩＣ | 08 |
| | IC306 | X7779A00 | IC | LC709004A-TLM-E | | | ロジックＩＣ | 04 |
| | IC307 | XZ509A00 | IC | TC74VHCU04FT INVER | | | ロジックＩＣ | 01 |
| | IC308 | XS790A00 | IC | TC74HC4052AF MPX | | | ロジックＩＣ | 02 |
| | IC309 | X8875A00 | IC | FHP3350IM14X | | | アンプＩＣ | 04 |
| | IC331 | X6248A00 | IC | NJM2388F33 | | U | 電源ＩＣ | 04 |
| | IC332 | X6248A00 | IC | NJM2388F33 | | | 電源ＩＣ | 04 |
| ⚠ | IC351 | X4153A00 | IC | KIA7812API | | | 電源ＩＣ | 02 |
| ⚠ | IC352 | X4154A00 | IC | KIA7912PI | | | 電源ＩＣ | 03 |
| | JK301-302 | WJ215400 | JACK.PIN | MSP-862V1-01 NI L | | | ピンジャック | |
| | JK331-332 | V9435700 | JACK.MNI | MSJ-035-12APC | | | モノラル ミニジャック | 01 |
| | JK335 | WD195900 | JACK.MNI | 2P | | | ミニジャック | 03 |
| | PJ301-302 | WG583200 | JACK.PIN | 6P RJ-1146+08-0H00 | | | ピンジャック | |
| | PJ303 | WT866100 | JACK.PIN | 3P RJ-1086+07-ZH31 | | | ピンジャック | |
| | PN302 | WS488500 | STYLE.PIN | L=90 #18 | | | スタイルピン | 01 |
| | PN331 | WS488500 | STYLE.PIN | L=90 #18 | | | スタイルピン | 01 |
| | PN351-354 | WS488500 | STYLE.PIN | L=90 #18 | | | スタイルピン | 01 |
| | PN361-363 | WS488500 | STYLE.PIN | L=90 #18 | | | スタイルピン | 01 |
| | Q3001-3003 | VQ986700 | TR | 2SC4081 T106 | | | トランジスタ | 01 |
| | Q3004 | WE834500 | FET | UPA672T-T1-A | | | ＦＥＴ | 01 |
| | Q3303 | WC529500 | TR | KTA1504S Y GR RTK | | | トランジスタ | |
| | Q3304 | WG538600 | TR | KTA1046-Y-U/P | | | トランジスタ | 02 |
| | Q3305 | WC529500 | TR | KTA1504S Y GR RTK | | | トランジスタ | |
| | Q3306 | WC529400 | TR | KTC3875S Y GR RTK | | | トランジスタ | 01 |
| | Q3308 | WC397700 | TR | 2N5401C-AT | | | トランジスタ | 01 |
| | Q3310 | VV655400 | TR.DGT | DTC114EKA | | | デジタルトランジスタ | 01 |
| | Q3311-3312 | WC529500 | TR | KTA1504S Y GR RTK | | | トランジスタ | |
| | Q3313-3314 | WC529400 | TR | KTC3875S Y GR RTK | | | トランジスタ | 01 |
| | Q3315-3316 | WG538600 | TR | KTA1046-Y-U/P | | | トランジスタ | 02 |
| | Q3317-3318 | WC529400 | TR | KTC3875S Y GR RTK | | | トランジスタ | 01 |
| | Q3319 | WC529500 | TR | KTA1504S Y GR RTK | | | トランジスタ | |
| | Q3501-3503 | VR043100 | FET | 2SK208 Y | | | チップＦＥＴ | 01 |

＊New Parts ＊新規部品

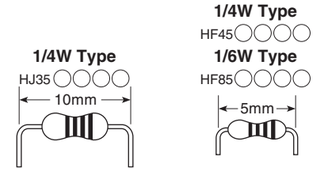
## VIDEO

| | Ref No. | Part No. | Description | Remarks | Markets | 部 品 名 | ﾗﾝｸ |
|---|---|---|---|---|---|---|---|
| ⚠ | Q3504-3505 | WF691400 | TR 2SD2014 | | | トランジスタ | 03 |
| ⚠ | Q3506 | WF691300 | TR 2SB1257 | | | トランジスタ | 03 |
| | Q3601 | VV655400 | TR.DGT DTC114EKA | | | デジタルトランジスタ | 01 |
| | Q3602 | WQ381000 | FET MCH6336-TL-E | | | ＭＯＳ　ＦＥＴ | 01 |
| | Q3603-3604 | WW223000 | TR 2SC5964-TD-E | | | トランジスタ | |
| | Q3605 | VR043100 | FET 2SK208 Y | | | チップＦＥＴ | 01 |
| | Q3606 | VP872700 | TR 2SC4488 S,T | | | トランジスタ | 01 |
| | Q3607 | VV655700 | TR.DGT DTC144EKA | | | デジタルトランジスタ | 01 |
| | Q3608 | VP872700 | TR 2SC4488 S,T | | | トランジスタ | 01 |
| | R3062 | WW965300 | R.MTL.OXD 2.2Ω 1/4W | | | 酸化金属被膜抵抗 | |
| | R3317-3318 | WW973300 | R.MTL.OXD 4.7KΩ 1/4W | | | 酸化金属被膜抵抗 | |
| ＊ | R3339 | WW971300 | R.MTL.OXD 680Ω 1/4W | | | 酸化金属被膜抵抗 | |
| ＊ | R3343-3344 | WW966300 | R.MTL.OXD 5.6Ω 1/4W | | | 酸化金属被膜抵抗 | |
| | R3506-3508 | HF353220 | R.CAR 2.2Ω 1/2W | | | カーボン抵抗 | |
| ⚠ ＊ | R3510-3512 | WW966100 | R.MTL.OXD 4.7Ω 1/4W | | | 酸化金属被膜抵抗 | |
| ⚠ ＊ | R3513-3515 | WW969300 | R.MTL.OXD 100Ω 1/4W | | | 酸化金属被膜抵抗 | |
| | R3521 | WJ787500 | R.MTL.FLM 0.22Ω 1W | | | 金属被膜抵抗 | 01 |
| | R3522 | HL002220 | R.MTL.OXD 0.22Ω 1/2W | | | 酸化金属被膜抵抗 | 01 |
| | R3603 | HF353220 | R.CAR 2.2Ω 1/2W | | | カーボン抵抗 | |
| ＊ | R3604 | WW969300 | R.MTL.OXD 100Ω 1/4W | | | 酸化金属被膜抵抗 | |
| ＊ | R3605 | WW975100 | R.MTL.OXD 27KΩ 1/4W | | | 酸化金属被膜抵抗 | |
| ＊ | R3606 | WW966100 | R.MTL.OXD 4.7Ω 1/4W | | | 酸化金属被膜抵抗 | |
| | U3301 | WW715100 | L.DTCT SIR843OMH6 | | | リモコン受光ユニット | |
| | VR371-374 | WK973400 | VR.TRIM B 330 RX 3P | | | 半固定ＶＲ | 01 |
| | VR381-383 | WK973400 | VR.TRIM B 330 RX 3P | | | 半固定ＶＲ | 01 |
| | | WE774200 | SCR.BND.HD 3x10 MFZN2W3 | | | バインドＢタイトネジ | 01 |

＊New Parts　＊新規部品

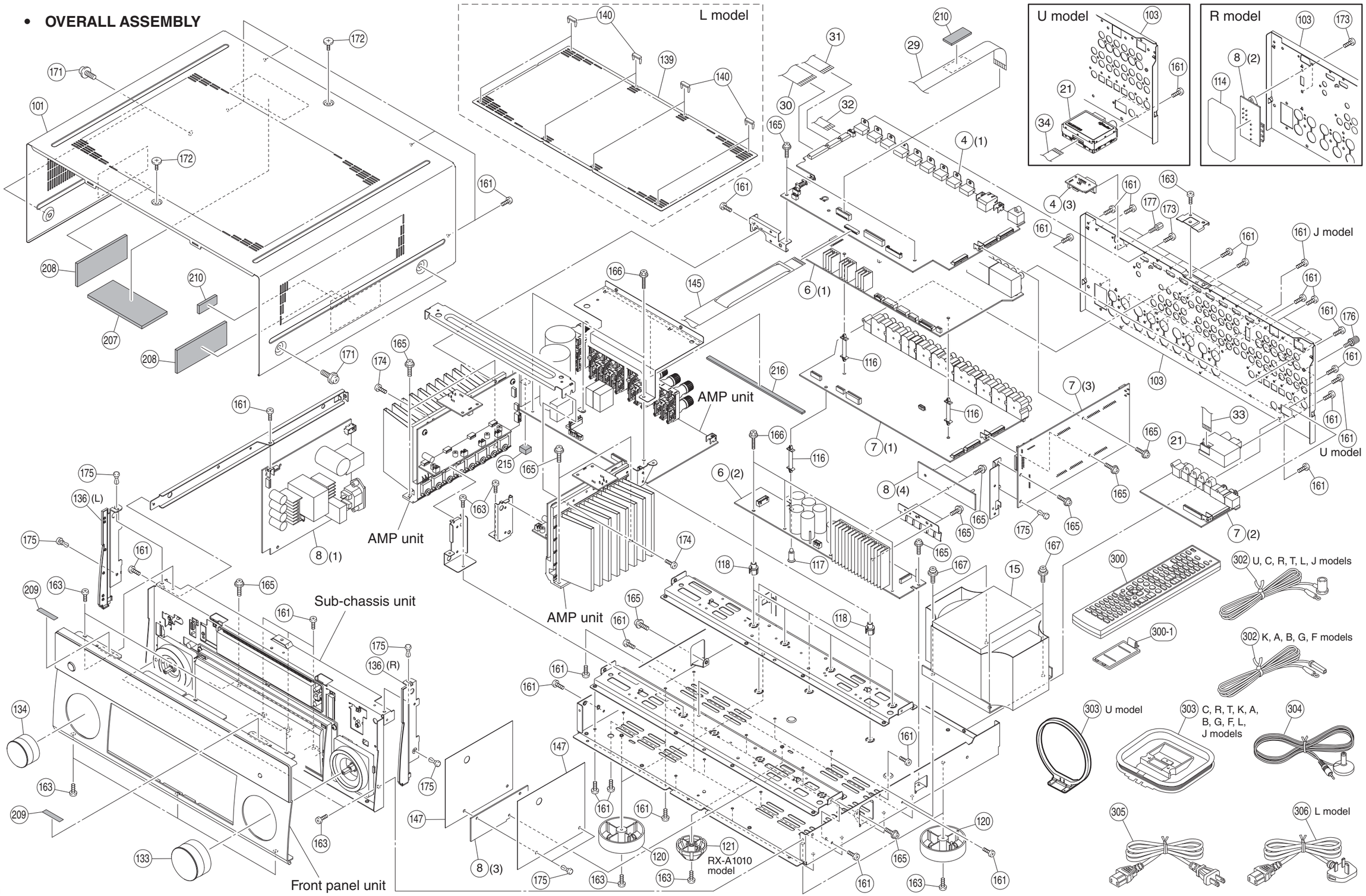
## Carbon Resistors

| 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 | 11 kΩ | HF45 7110 | HF45 7110 |
| 1.8 Ω | HJ35 3180 | ＊ | 12 kΩ | HJ35 7120 | HF85 7120 |
| 2.2 Ω | HJ35 3220 | HF85 3220 | 13 kΩ | HF45 7130 | HF45 7130 |
| 3.3 Ω | HJ35 3330 | HF85 3330 | 15 kΩ | HF45 7150 | HF45 7150 |
| 4.7 Ω | HJ35 3470 | HF85 3470 | 18 kΩ | HF45 7180 | HF45 7180 |
| 5.6 Ω | HJ35 3560 | HF85 3560 | 22 kΩ | HF45 7220 | HF45 7220 |
| 10 Ω | HF45 4100 | HF45 4100 | 24 kΩ | HF45 7240 | HF45 7240 |
| 15 Ω | HJ35 4150 | HF85 4150 | 27 kΩ | HJ35 7270 | HF85 7270 |
| 22 Ω | HF45 4220 | HF45 4220 | 30 kΩ | HF45 7300 | HF45 7300 |
| 27 Ω | HJ35 4270 | HF85 4270 | 33 kΩ | HF45 7330 | HF45 7330 |
| 33 Ω | HF45 4330 | HF45 4330 | 36 kΩ | HF45 7360 | HF45 7360 |
| 39 Ω | HJ35 4470 | HF85 4390 | 39 kΩ | HF45 7390 | HF45 7390 |
| 47 Ω | HF45 4470 | HF45 4470 | 47 kΩ | HF45 7470 | HF45 7470 |
| 56 Ω | HF45 4560 | HF45 4560 | 51 kΩ | HF45 7510 | HF45 7510 |
| 68 Ω | HF45 4680 | HF45 4680 | 56 kΩ | HF45 7560 | HF45 7560 |
| 75 Ω | HF45 4750 | HF45 4750 | 62 kΩ | HF45 7620 | HF45 7620 |
| 82 Ω | HF45 4820 | HF45 4820 | 68 kΩ | HF45 7680 | HF45 7680 |
| 91 Ω | HF45 4910 | HF45 4910 | 82 kΩ | HF45 7820 | HF45 7820 |
| 100 Ω | HF45 5100 | HF45 5100 | 91 kΩ | HF45 7910 | HF45 7910 |
| 110 Ω | HJ35 5110 | HF85 5110 | 100 kΩ | HF45 8100 | HF45 8100 |
| 120 Ω | HF45 5120 | HF45 5120 | 110 kΩ | HF45 8110 | HF45 8110 |
| 150 Ω | HF45 5150 | HF45 5150 | 120 kΩ | HF45 8120 | HF45 8120 |
| 160 Ω | HJ35 5160 | ＊ | 130 kΩ | HF45 8130 | ＊ |
| 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 | | | |
| 10 kΩ | HF45 7100 | HF45 7100 | | | |




＊: Not available

## • OVERALL ASSEMBLY



| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|
| * | 4 | WY505300 | P.C.B. ASSEMBLY | DIGITAL | | JCRTKABGFL | ＰＣＢ ＤＩＧＩＴＡＬ | |
| * | 4 | WY505400 | P.C.B. ASSEMBLY | DIGITAL | | U | ＰＣＢ ＤＩＧＩＴＡＬ | |
| * | 6 | WY514400 | P.C.B. ASSEMBLY | VIDEO | | J | ＰＣＢ ＶＩＤＥＯ | |
| * | 6 | WY514500 | P.C.B. ASSEMBLY | VIDEO | | U | ＰＣＢ ＶＩＤＥＯ | |
| * | 6 | WY514600 | P.C.B. ASSEMBLY | VIDEO | | CRTKAL | ＰＣＢ ＶＩＤＥＯ | |
| * | 6 | WY514700 | P.C.B. ASSEMBLY | VIDEO | | BGF | ＰＣＢ ＶＩＤＥＯ | |
| * | 7 | WY512900 | P.C.B. ASSEMBLY | FUNCTION | | J | ＰＣＢ ＦＵＮＣＴＩＯＮ | |
| * | 7 | WY513000 | P.C.B. ASSEMBLY | FUNCTION | | U | ＰＣＢ ＦＵＮＣＴＩＯＮ | |
| * | 7 | WY513100 | P.C.B. ASSEMBLY | FUNCTION | | CRT | ＰＣＢ ＦＵＮＣＴＩＯＮ | |
| * | 7 | WY513200 | P.C.B. ASSEMBLY | FUNCTION | | KABGFL | ＰＣＢ ＦＵＮＣＴＩＯＮ | |
| * | 8 | WY510000 | P.C.B. ASSEMBLY | POWER | | J | ＰＣＢ ＰＯＷＥＲ | |
| * | 8 | WY510100 | P.C.B. ASSEMBLY | POWER | | U | ＰＣＢ ＰＯＷＥＲ | |
| * | 8 | WY510200 | P.C.B. ASSEMBLY | POWER | | C | ＰＣＢ ＰＯＷＥＲ | |
| * | 8 | WY510300 | P.C.B. ASSEMBLY | POWER | | R | ＰＣＢ ＰＯＷＥＲ | |
| * | 8 | WY510400 | P.C.B. ASSEMBLY | POWER | | T | ＰＣＢ ＰＯＷＥＲ | |
| * | 8 | WY510500 | P.C.B. ASSEMBLY | POWER | | K | ＰＣＢ ＰＯＷＥＲ | |
| * | 8 | WY510600 | P.C.B. ASSEMBLY | POWER | | A | ＰＣＢ ＰＯＷＥＲ | |
| * | 8 | WY510700 | P.C.B. ASSEMBLY | POWER | | BGF | ＰＣＢ ＰＯＷＥＲ | |
| * | 8 | WY510800 | P.C.B. ASSEMBLY | POWER | | L | ＰＣＢ ＰＯＷＥＲ | |
| ⚠ * | 15 | YD514A00 | POWER TRANSFORMER | | | J | 電源トランス | |
| ⚠ * | 15 | YD515A00 | POWER TRANSFORMER | | | UC | 電源トランス | |
| ⚠ * | 15 | YD516A00 | POWER TRANSFORMER | | | R | 電源トランス | |
| ⚠ * | 15 | YD517A00 | POWER TRANSFORMER | | | AL | 電源トランス | |
| ⚠ * | 15 | YD518A00 | POWER TRANSFORMER | | | TK | 電源トランス | |
| ⚠ * | 15 | YD519A00 | POWER TRANSFORMER | | | BGF | 電源トランス | |
| | 21 | WW891000 | AM/FM TUNER | FAEH08-W02 | | JCRTL | ＡＭ／ＦＭチューナー | |
| * | 21 | YD785A00 | HD RADIO TUNER | | | U | ＨＤラジオチューナー | |
| | 21 | WW891100 | AM/FM TUNER | FAEH08-E02 | | KABGF | ＡＭ／ＦＭチューナー | |
| | 29 | MF117140 | FLEXIBLE FLAT CABLE | 17P 140mm P=1.25 | | | カード電線 | 01 |
| | 30 | MF120100 | FLEXIBLE FLAT CABLE | 20P 100mm P=1.25 | | | カード電線 | 02 |
| | 31 | MF116100 | FLEXIBLE FLAT CABLE | 16P 100mm P=1.25 | | | カード電線 | 02 |
| | 32 | MF109180 | FLEXIBLE FLAT CABLE | 9P 180mm P=1.25 | | | カード電線 | 04 |
| | 33 | MF109250 | FLEXIBLE FLAT CABLE | 9P 250mm P=1.25 | | JCRTKABGFL | カード電線 | 03 |
| | 34 | MF113250 | FLEXIBLE FLAT CABLE | 13P 250mm P=1.25 | | U | カード電線 | 03 |
| | 101 | WU295800 | TOP COVER | | GD | | トップカバー | |
| | 101 | WU295600 | TOP COVER | | BL | | トップカバー | 11 |
| | 101 | WU295700 | TOP COVER | | TI | | トップカバー | |
| * | 103 | WW993200 | REAR PANEL | | A1010 | J | リアパネル | |
| * | 103 | WW992700 | REAR PANEL | | A1010 | U | リアパネル | |
| * | 103 | WW992800 | REAR PANEL | | A1010 | C | リアパネル | |
| * | 103 | WW992800 | REAR PANEL | | V1071 | C | リアパネル | |
| * | 103 | WW992900 | REAR PANEL | | A1010 | R | リアパネル | |
| * | 103 | WW993000 | REAR PANEL | | A1010 | T | リアパネル | |
| * | 103 | WW993000 | REAR PANEL | | V1071 | T | リアパネル | |
| * | 103 | WW993100 | REAR PANEL | | A1010 | KABGFL | リアパネル | |
| * | 103 | WW993100 | REAR PANEL | | V1071 | AGF | リアパネル | |
| | 114 | WU299800 | BARRIER SHEET | 76x35 t=0.35 | | R | バリアシート | |
| | 116 | WS000800 | SPACER SUPPORT | LCA4-29M PIN | | | スペーサーサポート | 01 |
| | 117 | VF950800 | LOCKING CARD SPACER | KGLS-12RT | | | ロッキングカードスペーサー | 01 |
| | 118 | WQ664500 | SUPPORT | H8 | | | サポート | 01 |
| | 120 | WQ379900 | LEG | D60 H21 | A1010 | | レッグ | 03 |
| | 120 | VO042500 | LEG | D60xH21 GD | V1071GD | | レッグ | 03 |
| | 120 | VS025000 | LEG | D60xH21 HS | V1071BL,V1071TI | | レッグ | 02 |
| | 121 | WV139700 | CENTER LEG | D48 | A1010 | | センターレッグ | |
| | 133 | WN992000 | KNOB | D48, VOLUME | GD | | ノブ | 08 |
| | 133 | WN991900 | KNOB | D48, VOLUME | BL | | ノブ | 08 |
| | 133 | WN992100 | KNOB | D48, VOLUME | TI | | ノブ | |

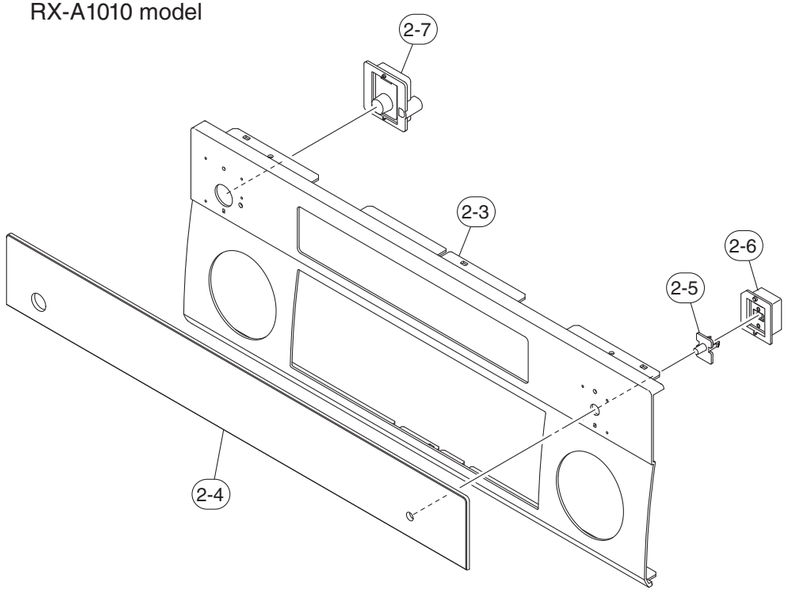
＊New Parts ＊新規部品

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|
| | 134 | WP191800 | KNOB | D38, INPUT | GD | | ノブ | 08 |
| | 134 | WP191700 | KNOB | D38, INPUT | BL | | ノブ | 08 |
| | 134 | WP191900 | KNOB | D38, INPUT | TI | | ノブ | |
| * | 136 | WY012700 | SIDE PLATE | | A1010GD | | サイドプレート | |
| | 136 | WU289200 | SIDE PLATE | | V1071GD | | サイドプレート | |
| * | 136 | WY012600 | SIDE PLATE | | A1010BL | | サイドプレート | |
| | 136 | WU289000 | SIDE PLATE | | V1071BL | | サイドプレート | |
| * | 136 | WY012800 | SIDE PLATE | | A1010TI | | サイドプレート | |
| | 136 | WU289100 | SIDE PLATE | | V1071TI | | サイドプレート | |
| | 139 | WJ589700 | TOP SHEET | | | L | トップシート | |
| | 140 | WJ053800 | RIVET | TOP SHEET | | L | リベット | |
| | 145 | WU733500 | BARRIER SHEET | 200x32 t=0.5 | | | バリアシート | |
| | 147 | WV341900 | BARRIER SHEET | 110x125 t=0.5 | | | バリアシート | |
| | 161 | WE774100 | BIND HEAD BONDING B-T. SCREW | 3x8 MFZN2B3 | | | ボンディングＢタイトネジ | 01 |
| | 163 | WE774300 | BIND HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | バインドＢタイトネジ | 01 |
| | 165 | WF002600 | PW HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | ＰＷヘッドＢタイトネジ | 01 |
| | 166 | WE774600 | IC SCREW | 3x18 MFZN2W3 | | | ＩＣスクリュー | 01 |
| | 167 | WU048900 | BIND HEAD S-TIGHT SCREW | 4x10 MFZN2W3 | | | バインドＳタイトネジ | 01 |
| | 171 | VD069600 | PW HEAD S-TIGHT SCREW | 4x8-10 MFNI33 | GD, TI | | ＰＷヘッドＳタイトネジ | 01 |
| | 171 | VH313200 | PW HEAD S-TIGHT SCREW | 4x8-10 MFNI3BL | BL | | ＰＷヘッドＳタイトネジ | 01 |
| | 172 | VZ893000 | SPECIAL S-TIGHT SCREW | 4x8-10 MFNI33 | GD, TI | | 化粧ネジＳタイト | 02 |
| | 172 | VK522100 | SPECIAL S-TIGHT SCREW | 4x8-10 MFC2BL | BL | | 化粧ネジＳタイト | 01 |
| | 173 | WE877900 | BIND HEAD S-TIGHT SCREW | 3x6 MFZN2W3 | | | バインドＳタイトネジ | 01 |
| | 174 | WE774200 | BIND HEAD B-TIGHT SCREW | 3x10 MFZN2W3 | | | バインドＢタイトネジ | 01 |
| | 175 | VQ368600 | PUSH RIVET | P3555-B | | | プッシュリベット | 01 |
| | 176 | AA627310 | GROUND TERMINAL | | | | ＧＮＤターミナル | 01 |
| | 177 | V6509600 | JACK SCREW | SS6-A47511848 | | | ジャックスクリュー | 01 |
| | 207 | WG160000 | DAMPER | 40x100x2 | | | ダンパー | 04 |
| | 208 | V3198100 | DAMPER | GUARD | | | ダンパー | 01 |
| | 209 | WV474600 | CUSHION | 10x30 t=0.35 | | | クッション | |
| | 210 | WK020500 | DAMPER | 15x40x2 | | | ダンパー | 01 |
| | 215 | WT851400 | DAMPER | 12x12x8 D6 | | | ダンパー | 01 |
| | 216 | VP922500 | DAMPER | 2x10x170 | | JBGF | ダンパー | 01 |
| | | | ACCESSORIES | | | | 付属品 | |
| * | 300 | WW512000 | REMOTE CONTROL | RAV448 | 000-213250070 | U | リモコン | |
| * | 300 | WW512100 | REMOTE CONTROL | RAV449 | 000-213250080 | RL | リモコン | |
| * | 300 | WW512300 | REMOTE CONTROL | RAV451 | 000-213250110 | TKBGF | リモコン | |
| | 300-1 | AAX82380 | BATTERY COVER | Black | CG-2209 | | 電池蓋 | 03 |
| | 302 | V6267000 | FM ANTENNA | 1.4m 1pc | | JUCRTL | ＦＭアンテナ | 03 |
| | 302 | VQ147100 | FM ANTENNA | 1.4m 1pc | | KABGF | ＦＭアンテナ | 02 |
| | 303 | VR248500 | AM ANTENNA | 1.0m 1pc | | JCRTKABGFL | ＡＭアンテナ | 03 |
| | 303 | WE746800 | AM ANTENNA | 1.2m 1pc | | U | ＡＭアンテナ | |
| | 304 | WN649600 | YPAO MICROPHONE | 6m 1pc | EM6022L-HN1700 | | ＹＰＡＯマイク | 08 |
| ⚠ | 305 | WQ292100 | POWER CABLE | 2m 1pc | | J | 電源コード | 08 |
| ⚠ | 305 | WU900300 | POWER CABLE | 2m 1pc | | UC | 電源コード | |
| ⚠ | 305 | WK391000 | POWER CABLE | 2m 1pc | | R | 電源コード | |
| ⚠ | 305 | WV837300 | POWER CABLE | 2m 1pc | | T | 電源コード | |
| ⚠ | 305 | WB750900 | POWER CABLE | 2m 1pc | | A | 電源コード | 07 |
| ⚠ | 305 | WT687400 | POWER CABLE | 2m 1pc | | K | 電源コード | |
| ⚠ | 305 | WU900200 | POWER CABLE | 2m 1pc | | B | 電源コード | |
| ⚠ | 305 | WU900100 | POWER CABLE | 2m 1pc | | GFL | 電源コード | |
| ⚠ | 306 | WQ577000 | POWER CABLE | 2m 1pc | | L | 電源コード | |
| | | | BATTERY | R03,AAA,UM-4 2pcs | | | 単４乾電池 | |

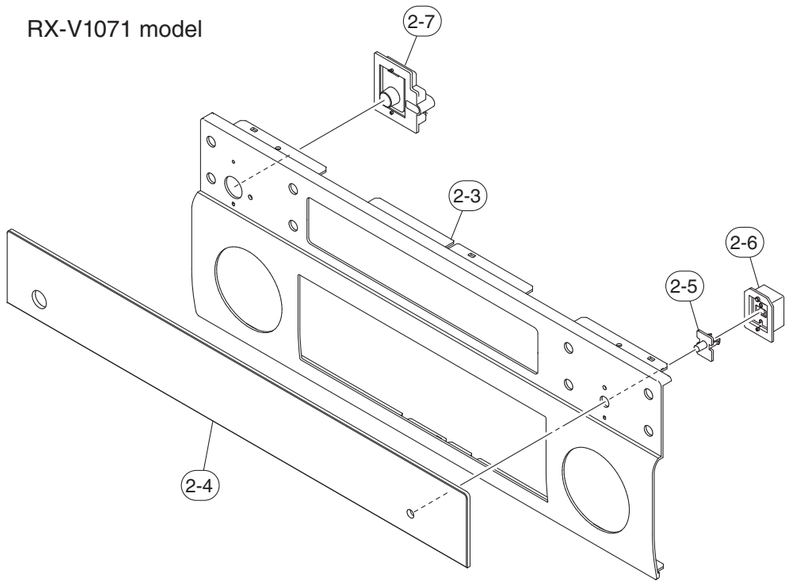
＊New Parts ＊新規部品

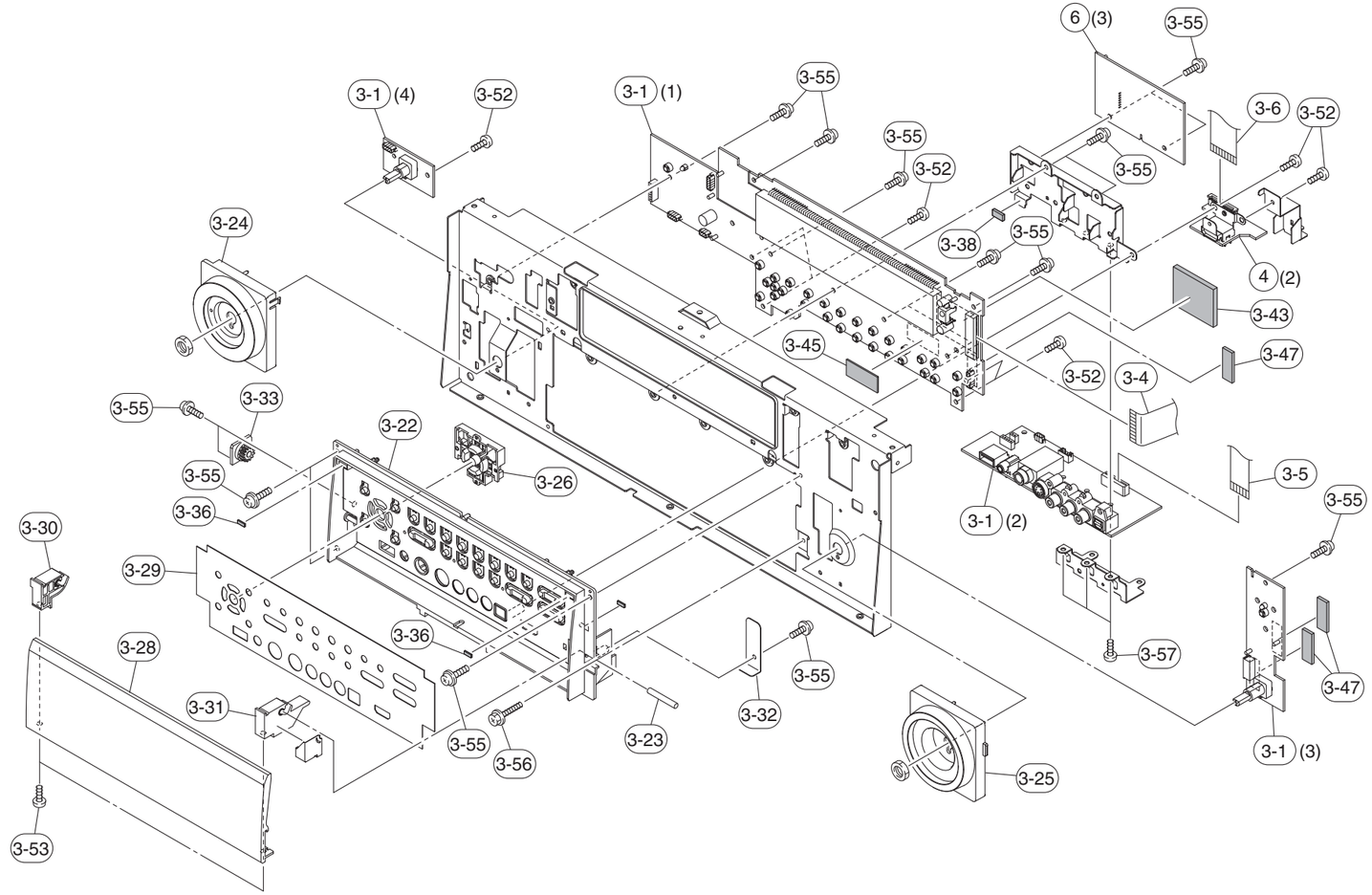
- **FRONT PANEL UNIT and SUB-CHASSIS UNIT**

RX-A1010 model




RX-V1071 model



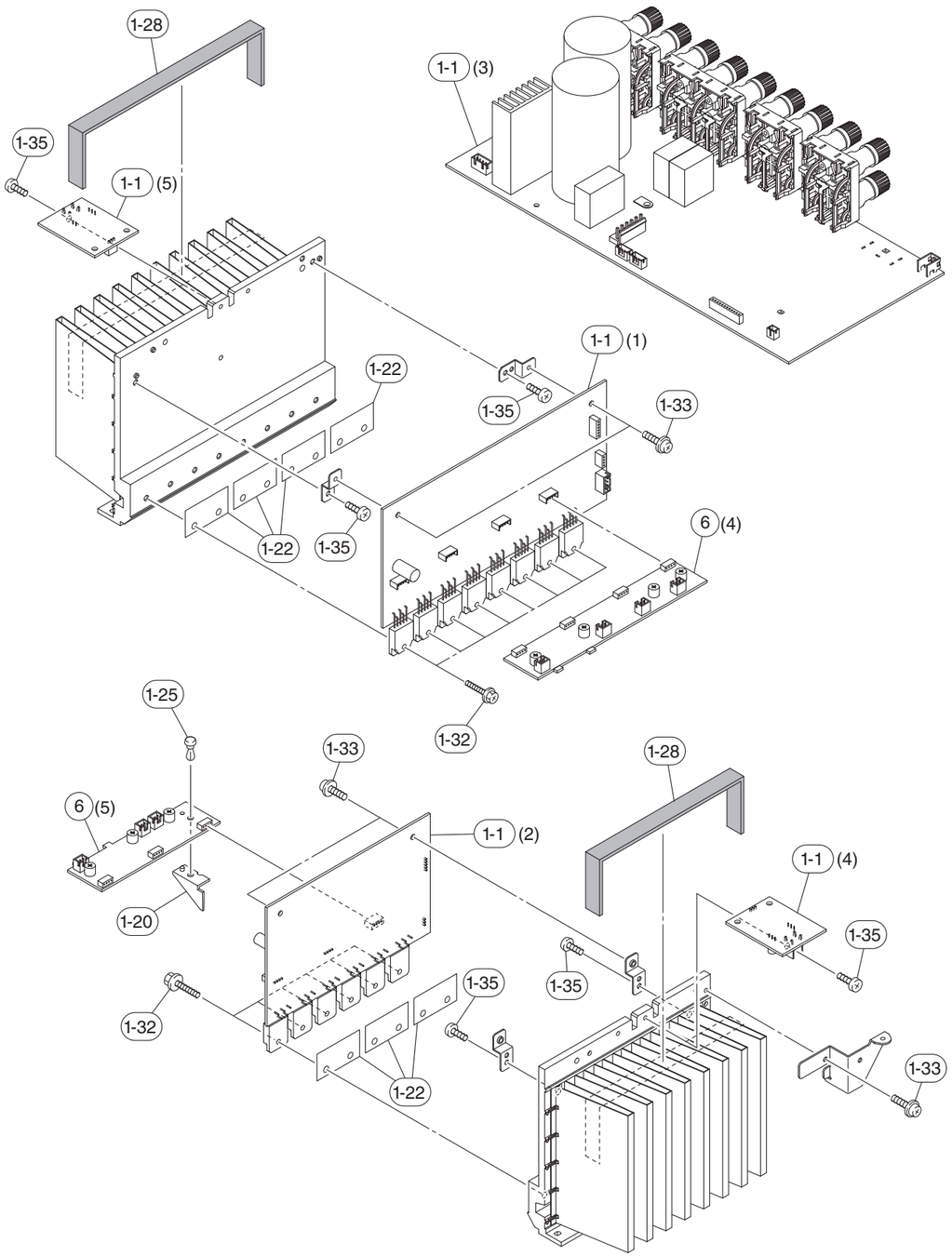
| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|
| * | 2-3 | WY007100 | FRONT PANEL | | A1010GD | J | フロントパネル | |
| * | 2-3 | WY007200 | FRONT PANEL | | A1010GD | T | フロントパネル | |
| * | 2-3 | WU251300 | FRONT PANEL | | V1071GD | | フロントパネル | |
| * | 2-3 | WY006900 | FRONT PANEL | | A1010BL | J | フロントパネル | |
| * | 2-3 | WY006800 | FRONT PANEL | | A1010BL | U | フロントパネル | |
| * | 2-3 | WY007000 | FRONT PANEL | | A1010BL | CRTKABGFL | フロントパネル | |
| * | 2-3 | WU251000 | FRONT PANEL | | V1071BL | | フロントパネル | |
| * | 2-3 | WY007300 | FRONT PANEL | | A1010TI | | フロントパネル | |
| * | 2-3 | WU251100 | FRONT PANEL | | V1071TI | | フロントパネル | |
| * | 2-4 | WY013500 | WINDOW SHEET | | A1010 | | ウインドウシート | |
| * | 2-4 | WY016200 | WINDOW SHEET | | V1071 | | ウインドウシート | |
| | 2-5 | WU155600 | LENS BUTTON | | | | レンズ ボタン | 01 |
| * | 2-6 | WY013000 | BUTTON | PURE DIRECT | A1010 | | ボタン | |
| | 2-6 | WU155500 | BUTTON | PURE DIRECT | V1071 | | ボタン | 01 |
| | 2-7 | WW980100 | BUTTON | POWER | A1010 | | ボタン | |
| | 2-7 | WU155400 | BUTTON | POWER | V1071 | | ボタン | 02 |
| * | 3-1 | WY515900 | P.C.B. ASSEMBLY | OPERATION | | | ＰＣＢ ＯＰＥＲＡＴＩＯＮ | |
| * | 3-4 | MF126300 | FLEXIBLE FLAT CABLE | 26P 300mm P=1.25 | | | カード電線 | |
| * | 3-5 | MF115450 | FLEXIBLE FLAT CABLE | 15P 450mm P=1.25 | | | カード電線 | |
| | 3-6 | WU294900 | FLEXIBLE FLAT CABLE | 20P 210mm P=1 | | | カード電線 | 02 |
| * | 3-22 | WY011700 | SUB-PANEL | | A1010GD | | サブパネル | |
| | 3-22 | WU305200 | SUB-PANEL | | V1071GD | | サブパネル | |
| * | 3-22 | WY011600 | SUB-PANEL | | A1010BL | JCRTKABGFL | サブパネル | |
| * | 3-22 | WY011500 | SUB-PANEL | | A1010BL | U | サブパネル | |
| | 3-22 | WU492000 | SUB-PANEL | | V1071BL | | サブパネル | |
| * | 3-22 | WY011800 | SUB-PANEL | | A1010TI | | サブパネル | |
| | 3-22 | WU305300 | SUB-PANEL | | V1071TI | | サブパネル | |
| * | 3-22 | WY011800 | SUB-PANEL | | A1010TI | | サブパネル | |
| | 3-22 | WU305300 | SUB-PANEL | | V1071TI | | サブパネル | |
| | 3-23 | V9126500 | SHAFT | | | | シャフト | 01 |
| | 3-24 | WW982100 | ESCUTCHEON | INPUT | A1010GD | | エスカッション | |
| | 3-24 | WV507900 | ESCUTCHEON | INPUT | V1071GD | | エスカッション | |
| | 3-24 | WW981900 | ESCUTCHEON | INPUT | A1010BL | | エスカッション | |
| | 3-24 | WV507700 | ESCUTCHEON | INPUT | V1071BL | | エスカッション | |
| | 3-24 | WW982000 | ESCUTCHEON | INPUT | A1010TI | | エスカッション | |
| | 3-24 | WV507800 | ESCUTCHEON | INPUT | V1071TI | | エスカッション | |
| | 3-25 | WW981800 | ESCUTCHEON | VOLUME | A1010GD | | エスカッション | |
| | 3-25 | WU154900 | ESCUTCHEON | VOLUME | V1071GD | | エスカッション | 08 |
| | 3-25 | WW981600 | ESCUTCHEON | VOLUME | A1010BL | | エスカッション | |
| | 3-25 | WU154700 | ESCUTCHEON | VOLUME | V1071BL | | エスカッション | 04 |
| | 3-25 | WW981700 | ESCUTCHEON | VOLUME | A1010TI | | エスカッション | |
| | 3-25 | WU154800 | ESCUTCHEON | VOLUME | V1071TI | | エスカッション | |
| | 3-26 | WU307700 | BUTTON | CURSOR | GD | | ボタン | |
| | 3-26 | WU307600 | BUTTON | CURSOR | BL | | ボタン | |
| | 3-26 | WU307800 | BUTTON | CURSOR | TI | | ボタン | |
| * | 3-28 | WY007500 | PANEL LID | | A1010GD | | パネルリッド | |
| | 3-28 | WU308700 | PANEL LID | | V1071GD | | パネルリッド | |
| * | 3-28 | WY007400 | PANEL LID | | A1010BL | | パネルリッド | |
| | 3-28 | WU308600 | PANEL LID | | V1071BL | | パネルリッド | |
| * | 3-28 | WY007600 | PANEL LID | | A1010TI | | パネルリッド | |
| | 3-28 | WU308800 | PANEL LID | | V1071TI | | パネルリッド | |
| * | 3-29 | WY015600 | PLATE | SUB-PANEL | A1010GD | | プレート | |
| * | 3-29 | WY628700 | PLATE | SUB-PANEL | V1071GD | | プレート | |
| * | 3-29 | WY015500 | PLATE | SUB-PANEL | A1010BL | JCRTKABGFL | プレート | |
| * | 3-29 | WY015300 | PLATE | SUB-PANEL | A1010BL | U | プレート | |
| * | 3-29 | WY628600 | PLATE | SUB-PANEL | V1071BL | | プレート | |
| * | 3-29 | WY015700 | PLATE | SUB-PANEL | A1010TI | | プレート | |
| * | 3-29 | WY628800 | PLATE | SUB-PANEL | V1071TI | | プレート | |
| * | 3-30 | WY012000 | HINGE L | | A1010GD | | ヒンジL | |

※New Parts ＊新規部品

| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|
| | 3-30 | WQ432100 | HINGE L | | V1071GD | | ヒンジL | 01 |
| * | 3-30 | WY011900 | HINGE L | | A1010BL | | ヒンジL | |
| | 3-30 | WQ432000 | HINGE L | | V1071BL | | ヒンジL | 01 |
| * | 3-30 | WY012100 | HINGE L | | A1010TI | | ヒンジL | |
| | 3-30 | WQ432200 | HINGE L | | V1071TI | | ヒンジL | |
| | 3-31 | V6005400 | HINGE R | | GD | | ヒンジR | 01 |
| | 3-31 | V6005300 | HINGE R | | BL | | ヒンジR | |
| | 3-31 | V6005500 | HINGE R | | TI | | ヒンジR | |
| | 3-32 | V4593300 | SPRING | LID | | | スプリング | 01 |
| | 3-33 | V9124600 | DAMPER | GEAR | | | ダンパー | 03 |
| | 3-36 | VY940400 | CUSHION | T=0.8 LID | | | クッション | 01 |
| | 3-38 | WC144500 | CUSHION | 5x10 | | | クッション | |
| | 3-43 | WU538300 | DAMPER | 35x50x3 | | | ダンパー | |
| | 3-45 | WU538400 | DAMPER | 10x30x1 | | | ダンパー | |
| * | 3-47 | WZ097500 | DAMPER | 13x28x2 | | | ダンパー | |
| | 3-52 | WF266600 | BIND HEAD P-TIGHT SCREW | 3x8 MFZN2B3 | | | バインドPタイトネジ | 01 |
| | 3-53 | WE973700 | BIND HEAD P-TIGHT SCREW | 2.6x6 MFZN2W3 | | | バインドPタイトネジ | 01 |
| | 3-55 | WG959600 | PW HEAD TAPPING B-T. SCREW | 3x6-8 MFZN2W3 | | | ＰＷヘッドＢタイトネジ | 01 |
| | 3-56 | WM220800 | HEXAGONAL HEAD B-TIGHT SCREW | 3x15 SP MFZN2W3 | | | 六角Ｂタイトネジ | 01 |
| | 3-57 | WE774300 | BIND HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | バインドBタイトネジ | 01 |
| | 4 | WY505300 | P.C.B. ASSEMBLY | DIGITAL | | JCRTKABGFL | ＰＣＢ ＤＩＧＩＴＡＬ | |
| | 4 | WY505400 | P.C.B. ASSEMBLY | DIGITAL | | U | ＰＣＢ ＤＩＧＩＴＡＬ | |
| | 6 | WY514400 | P.C.B. ASSEMBLY | VIDEO | | J | ＰＣＢ ＶＩＤＥＯ | |
| | 6 | WY514500 | P.C.B. ASSEMBLY | VIDEO | | U | ＰＣＢ ＶＩＤＥＯ | |
| | 6 | WY514600 | P.C.B. ASSEMBLY | VIDEO | | CRTKAL | ＰＣＢ ＶＩＤＥＯ | |
| | 6 | WY514700 | P.C.B. ASSEMBLY | VIDEO | | BGF | ＰＣＢ ＶＩＤＥＯ | |

※New Parts ＊新規部品

## • AMP UNIT




| | Ref No. | Part No. | Description | | Remarks | Markets | 部 品 名 | ランク |
|---|---|---|---|---|---|---|---|---|
| * | 1-1 | WY512100 | P.C.B. ASSEMBLY | MAIN | | J | ＰＣＢ　ＭＡＩＮ | |
| * | 1-1 | WY512200 | P.C.B. ASSEMBLY | MAIN | | U | ＰＣＢ　ＭＡＩＮ | |
| * | 1-1 | WY512300 | P.C.B. ASSEMBLY | MAIN | | C | ＰＣＢ　ＭＡＩＮ | |
| * | 1-1 | WY512400 | P.C.B. ASSEMBLY | MAIN | | RTA | ＰＣＢ　ＭＡＩＮ | |
| * | 1-1 | WY512500 | P.C.B. ASSEMBLY | MAIN | | KBGFL | ＰＣＢ　ＭＡＩＮ | |
| | 1-20 | WU517800 | SUPPORT HOLDER | | | | サポートホルダー | |
| | 1-22 | WQ753200 | RADIATION SHEET | 40x23x0.06 MICA | | | 放熱シート | 01 |
| | 1-25 | VQ368600 | PUSH RIVET | P3555-B | | | プッシュリベット | 01 |
| | 1-28 | WU873800 | DAMPER | 10x220x1 | | | ダンパー | |
| | 1-32 | WM220800 | HEXAGONAL HEAD B-TIGHT SCREW | 3x15 SP MFZN2W3 | | | 六角Ｂタイトネジ | 01 |
| | 1-33 | WF002600 | PW HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | ＰＷヘッドＢタイトネジ | 01 |
| | 1-35 | WE774300 | BIND HEAD B-TIGHT SCREW | 3x8 MFZN2W3 | | | バインドＢタイトネジ | 01 |
| | 6 | WY514400 | P.C.B. ASSEMBLY | VIDEO | | J | ＰＣＢ　ＶＩＤＥＯ | |
| | 6 | WY514500 | P.C.B. ASSEMBLY | VIDEO | | U | ＰＣＢ　ＶＩＤＥＯ | |
| | 6 | WY514600 | P.C.B. ASSEMBLY | VIDEO | | CRTKAL | ＰＣＢ　ＶＩＤＥＯ | |
| | 6 | WY514700 | P.C.B. ASSEMBLY | VIDEO | | BGF | ＰＣＢ　ＶＩＤＥＯ | |

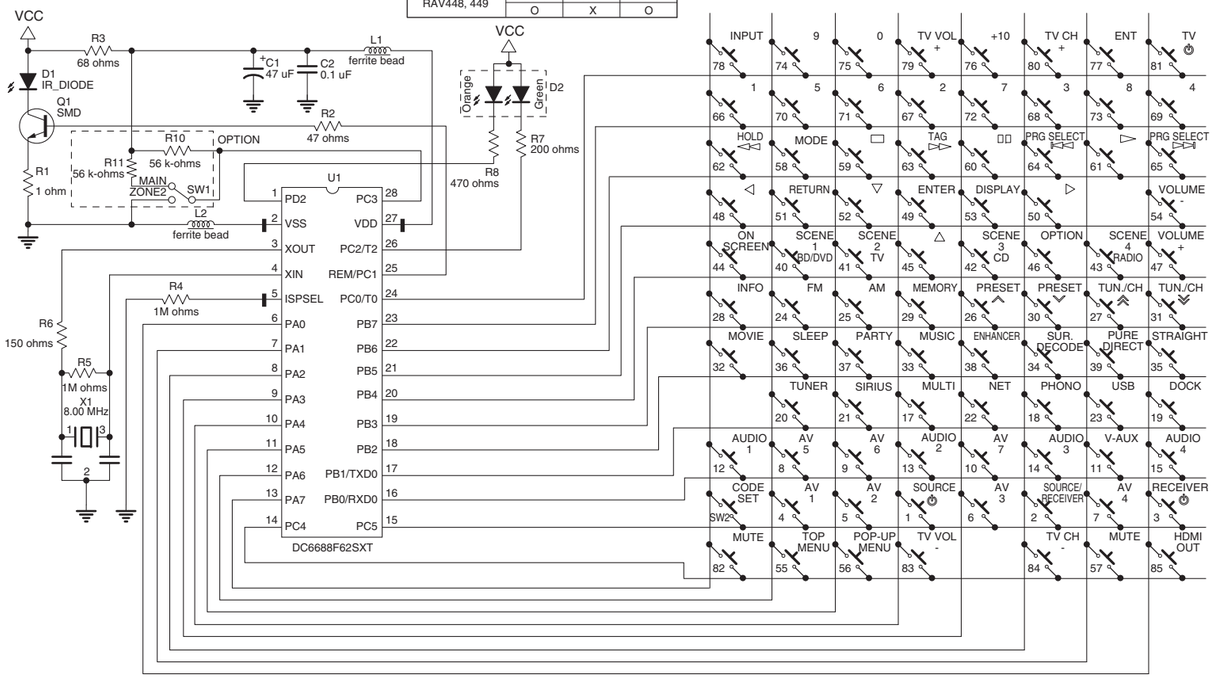
※ New Parts　＊新規部品

# ■ REMOTE CONTROL

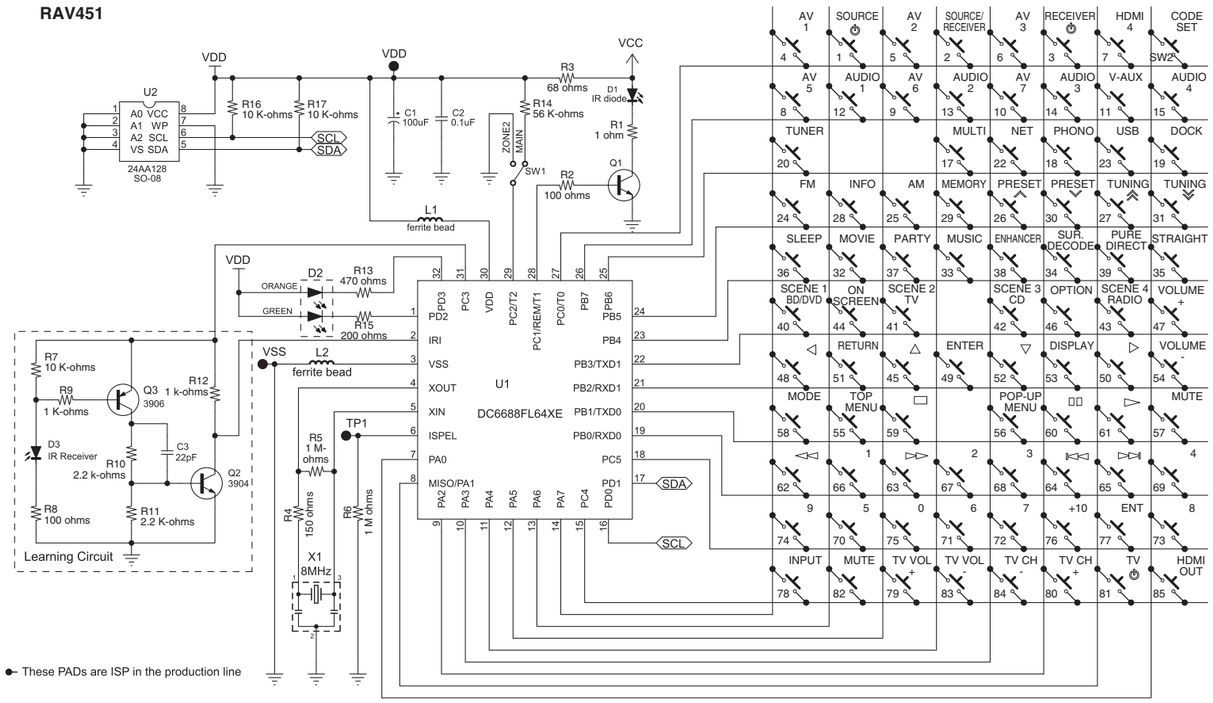
## SCHEMATIC DIAGRAMS

### RAV448, RAV449

| | OPTION | | |
|---|---|---|---|
| | SW1 | R10 | R11 |
| RAV448, 449 | O | X | O |



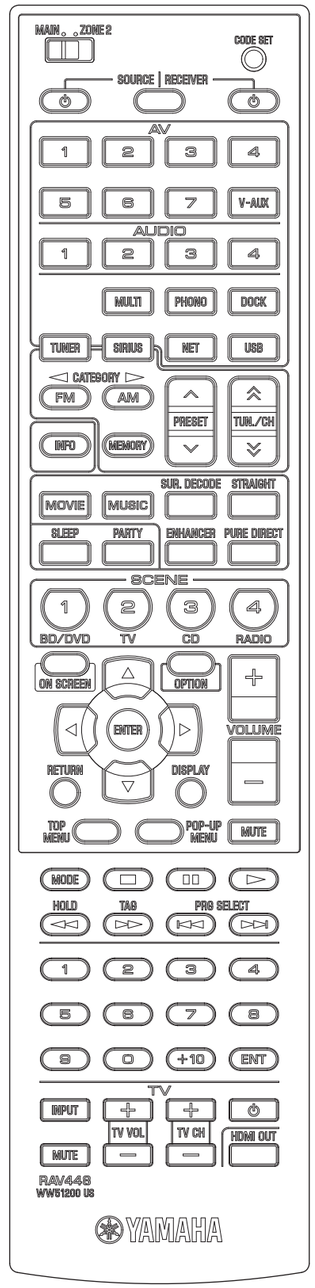

### RAV451



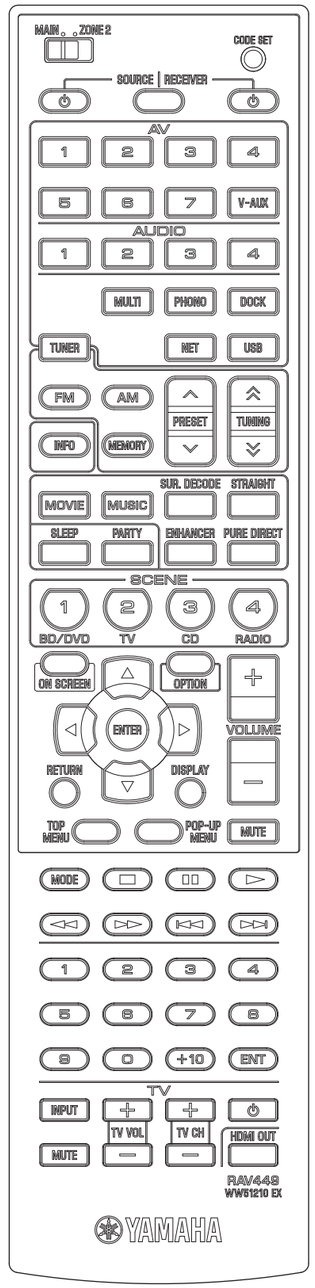

● These PADs are ISP in the production line

## PANELS

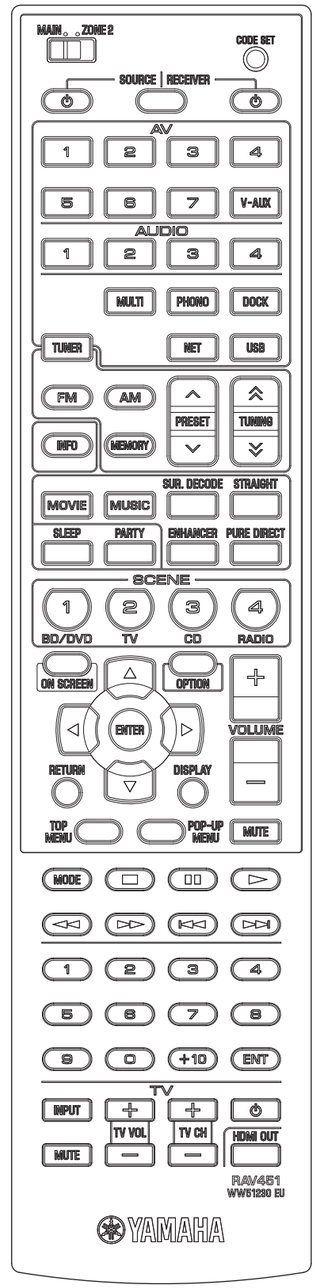
### RAV448
(U model)



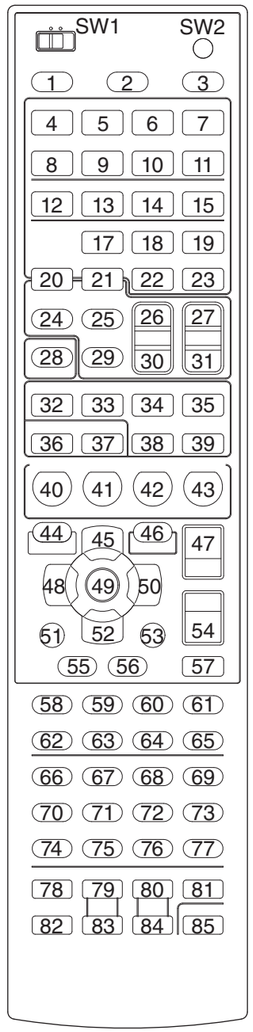

### RAV449
(C, R, A, L, J models)




### RAV451
(T, K, B, G, F models)



## KEY NO. LAYOUT

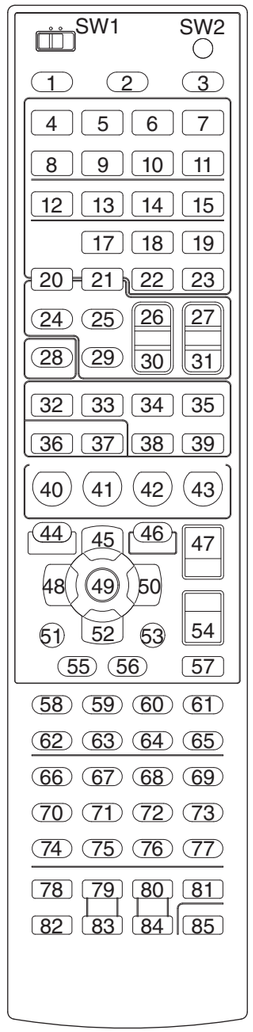



## KEY CODE

### AMP MODE

| | Key No. | FUNCTION | | ID-1 (5019) | | ID-2 (5020) | |
|---|---|---|---|---|---|---|---|
| | | RAV448 (U model) | RAV449 (C, R, A, L, J models)<br>RAV451 (T, K, B, G, F models) | MAIN | ZONE2 | MAIN | ZONE2 |
| | SW1 | MAIN / ZONE | MAIN / ZONE | [ MAIN ] | [ ZONE2 ] | [ MAIN ] | [ ZONE2 ] |
| | LED1 | TRANSMIT | TRANSMIT | – | – | – | – |
| | SW2 | CODE SET | CODE SET | [ CODE SET ] | [ CODE SET ] | [ CODE SET ] | [ CODE SET ] |
| | K2 | SOURCE / RECEIVER | SOURCE / RECEIVER | * select RCU mode "SOURCE" or "RECEIVER" | | | |
| "RECEIVER" | K3 | ⏻ RECEIVER | ⏻ RECEIVER | 7E-2A | 7A-453A | 7E-2AD4 | 7A-453B |
| (mode fixed) | K4 | AV-1 | AV-1 | 7A-532C | 7A-542B | 7A-532D | 7A-542A |
| | K5 | AV-2 | AV-2 | 7A-5629 | 7A-5728 | 7A-5628 | 7A-5729 |
| | K6 | AV-3 | AV-3 | 7A-5926 | 7A-5A25 | 7A-5927 | 7A-5A24 |
| | K7 | AV-4 | AV-4 | 7A-5C23 | 7A-5D22 | 7A-5C22 | 7A-5D23 |
| | K8 | AV-5 | AV-5 | 7A-5F20 | 7A-601F | 7A-5F21 | 7A-601E |
| | K9 | AV-6 | AV-6 | 7A-621D | 7A-631C | 7A-621C | 7A-631D |
| | K10 | AV-7 | AV-7 | 7A-7609 | 7A-7708 | 7A-7608 | 7A-7709 |
| | K11 | V-AUX | V-AUX | 7A-55 | 7A-D8 | 7A-55AB | 7A-D826 |
| | K12 | AUDIO-1 | AUDIO-1 | 7A-651A | 7A-6619 | 7A-651B | 7A-6618 |
| | K13 | AUDIO-2 | AUDIO-2 | 7A-6817 | 7A-6916 | 7A-6816 | 7A-6917 |
| | K14 | AUDIO-3 | AUDIO-3 | 7A-7C03 | 7A-7D02 | 7A-7C02 | 7A-7D03 |
| | K15 | AUDIO-4 | AUDIO-4 | 7A-7F00 | 7A-80FF | 7A-7F01 | 7A-80FE |
| | K17 | MULTI | MULTI | 7A-87 | – | 7A-8779 | – |
| | K18 | PHONO | PHONO | 7A-14 | 7A-D0 | 7A-14EA | 7A-D02E |
| | K19 | DOCK | DOCK | 7F01-4A | 7F01-4B | 7F01-4AB4 | 7F01-4BB5 |
| | K20 | TUNER | TUNER | 7A-16 | 7A-D2 | 7A-16E8 | 7A-D22C |
| | K21 | SIRIUS | – | 7A-39 | 7A-3A | 7A-39C7 | 7A-3AC4 |
| | K22 | NET | NET | 7F01-3F | 7F01-40 | 7F01-3FC1 | 7F01-40BE |
| | K23 | USB | USB | 7F01-720D | 7F01-730C | 7F01-720C | 7F01-730D |
| | K24 | FM / CATEGORY ( - ) | FM | 7F01-5827 | 7F01-5926 | 7F01-5826 | 7F01-5927 |
| | K25 | AM / CATEGORY ( + ) | AM | 7F01-552A | 7F01-5629 | 7F01-552B | 7F01-5628 |
| | K26 | PRESET ∧ | PRESET ∧ | 7F01-5B24 | 7F01-5C23 | 7F01-5B25 | 7F01-5C22 |
| | K27 | TUNING / CH ⋀ | TUNING ⋀ | 7F01-611E | 7F01-621D | 7F01-611F | 7F01-621C |
| | K28 | INFO | INFO | 7A-2758 | 7A-2857 | 7A-2759 | 7A-2856 |
| | K29 | MEMORY | MEMORY | 7F01-6718 | 7F01-6817 | 7F01-6719 | 7F01-6816 |
| | K30 | PRESET ∨ | PRESET ∨ | 7F01-5E21 | 7F01-5F20 | 7F01-5E20 | 7F01-5F21 |
| | K31 | TUNING / CH ⋁ | TUNING ⋁ | 7F01-641B | 7F01-651A | 7F01-641A | 7F01-651B |
| | K32 | MOVIE | MOVIE | 7A-88 | – | 7A-8876 | – |
| | K33 | MUSIC | MUSIC | 7A-89 | – | 7A-8977 | – |
| | K34 | SUR. DECODE | SUR. DECODE | 7A-8D | – | 7A-8D73 | – |
| | K35 | STRAIGHT | STRAIGHT | 7A-56 | – | 7A-56A8 | – |
| | K36 | SLEEP | SLEEP | 7A-30 | 7A-31 | 7A-30CE | 7A-31CF |
| | K37 | PARTY | PARTY | 7A-34 | 7A-34 | 7A-34CA | 7A-34CA |
| | K38 | ENHANCER | ENHANCER | 7A-94 | – | 7A-946A | – |
| | K39 | PURE DIRECT | PURE DIRECT | 7A-DD | – | 7A-DD23 | – |
| | K40 | SCENE-1 (BD/DVD) | SCENE-1 (BD/DVD) | 7A-007F | 7A-017E | 7A-007E | 7A-017F |
| | K41 | SCENE-2 (TV) | SCENE-2 (TV) | 7A-037C | 7A-047B | 7A-037D | 7A-047A |
| | K42 | SCENE-3 (CD) | SCENE-3 (CD) | 7A-0679 | 7A-0778 | 7A-0678 | 7A-0779 |
| | K43 | SCENE-4 (RADIO) | SCENE-4 (RADIO) | 7A-0976 | 7A-0A75 | 7A-0977 | 7A-0A74 |
| | K44 | ON SCREEN | ON SCREEN | 7A-84 | – | 7A-847A | – |
| | K46 | OPTION | OPTION | 7A-6B14 | – | 7A-6B15 | – |
| | K47 | VOLUME ( + ) | VOLUME ( + ) | 7A-1A | 7A-DA | 7A-1AE4 | 7A-DA24 |
| | K54 | VOLUME ( - ) | VOLUME ( - ) | 7A-1B | 7A-DB | 7A-1BE5 | 7A-DB25 |
| | K57 | MUTE | MUTE | 7A-1C | 7A-DC | 7A-1CE2 | 7A-DC22 |
| | K85 | HDMI OUT | HDMI OUT | 7A-35 | – | 7A-35CB | – |

## KEY NO. LAYOUT




## SOURCE MODE

| LEARN | | | | | Key No. | FUNCTION | | IR code in "RECEIVER" mode | | | | IR code in "SOURCE" mode | 5098 | 5098 | 5098 | 5098 | 5098 | 5098 | 5098 | 5098 | 5098 | 5095 | 5098 | 5098 | 5098 | 5098 | 5098 | 5098 | 5098 | 5098 | 5098 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (SOURCE) | (RECEIVER) | (TV) | PRESET | | | RAV448 (U model) | RAV449 (C, R, A, L, J models) RAV451 (T, K, B, G, F models) | ID-1 (5019) | | ID-2 (5020) | | ID-1 / ID-2 | K23 | K22 | K21 | K20 | K19 | K18 | K17 | K15 | K14 | K13 | K12 | K11 | K10 | K9 | K8 | K7 | K6 | K5 | K4 |
| | | | | | | | | MAIN | ZONE2 | MAIN | ZONE2 | MAIN / ZONE2 | [USB] | [NET] | [SIRIUS] (RAV448) | [TUNER] | [DOCK] | [PHONO] | [MULTI] | [AUDIO-4] | [AUDIO-3] | [AUDIO-2] | [AUDIO-1] | [V-AUX] | [AV-7] | [AV-6] | [AV-5] | [AV-4] | [AV-3] | [AV-2] | [AV-1] |
| O | O | – | – | "SOURCE/ RCVR" | K45 | △ (UP) | △ (UP) | 7A-9D | 7A-2B54 | 7A-9D63 | 7A-2B55 | | | | | | | | | | | – | | | | | | | | | |
| O | O | – | – | | K48 | ◁ (LEFT) | ◁ (LEFT) | 7A-9F | 7A-2D52 | 7A-9F61 | 7A-2D53 | | | | | | | | | | | – | | | | | | | | | |
| O | O | – | – | | K49 | ENTER | ENTER | 7A-DE | 7A-2F50 | 7A-DE20 | 7A-2F51 | | | | | | | | | | | – | | | | | | | | | |
| O | O | – | – | | K50 | ▷ (RIGHT) | ▷ (RIGHT) | 7A-9E | 7A-2E51 | 7A-9E60 | 7A-2E50 | * SOURCE * | | | | | | | | | | – | | | | | | | | | |
| O | O | – | – | | K51 | RETURN | RETURN | 7A-AA | 7A-3C43 | 7A-AA54 | 7A-3C42 | | | | | | | | | | | – | | | | | | | | | |
| O | O | – | – | | K52 | ▽ (DOWN) | ▽ (DOWN) | 7A-9C | 7A-2C53 | 7A-9C62 | 7A-2C52 | | | | | | | | | | | – | | | | | | | | | |
| O | O | – | – | | K53 | DISPLAY | DISPLAY | 7F01-60 | 7F01-80 | 7F01-609E | 7F01-807E | | | | | | | | | | | 79-0A | | | | | | | | | |
| O | O | – | – | | K58 | MODE | MODE | 7F01-66 | 7F01-86 | 7F01-6698 | 7F01-8678 | * empty * | | | | | | | | | | * empty * | | | | | | | | | |
| O | O | – | – | | K59 | □ (STOP) | □ (STOP) | 7F01-69 | 7F01-89 | 7F01-6997 | 7F01-8977 | | | | | | | | | | | 7A-09 | | | | | | | | | |
| O | O | – | – | | K60 | ▯▯ (PAUSE) | ▯▯ (PAUSE) | 7F01-67 | 7F01-87 | 7F01-6799 | 7F01-8779 | | | | | | | | | | | 7A-09 | | | | | | | | | |
| O | O | – | – | | K61 | ▷ (PLAY) | ▷ (PLAY) | 7F01-68 | 7F01-88 | 7F01-6896 | 7F01-8876 | | | | | | | | | | | 7A-08 | | | | | | | | | |
| O | O | – | – | | K62 | ◁◁ (REW/HOLD) | ◁◁ (REW) | 7F01-6A | 7F01-8A | 7F01-6A94 | 7F01-8A74 | * SOURCE * | | | | | | | | | | 7A-0D | | | | | | | | | |
| O | O | – | – | | K63 | ▷▷ (FF/TAG) | ▷▷ (FF) | 7F01-6B | 7F01-8B | 7F01-6B95 | 7F01-8B75 | | | | | | | | | | | 7A-0C | | | | | | | | | |
| O | O | – | – | | K64 | ⏮◁ (SKIP / PRG SELECT -) | ⏮◁ (SKIP -) | 7F01-6C | 7F01-8C | 7F01-6C92 | 7F01-8C72 | | | | | | | | | | | 7A-0B | | | | | | | | | |
| O | O | – | – | | K65 | ▷⏭ (SKIP / PRG SELECT +) | ▷⏭ (SKIP +) | 7F01-6D | 7F01-8D | 7F01-6D93 | 7F01-8D73 | | | | | | | | | | | 7A-0A | | | | | | | | | |
| O | O | – | – | | K66 | 1 | 1 | 7F01-51 | 7F01-71 | 7F01-51AF | 7F01-718F | | | | | | | | | | | 79-11 | | | | | | | | | |
| O | O | – | – | | K67 | 2 | 2 | 7F01-52 | 7F01-72 | 7F01-52AC | 7F01-728C | | | | | | | | | | | 79-12 | | | | | | | | | |
| O | O | – | – | | K68 | 3 | 3 | 7F01-53 | 7F01-73 | 7F01-53AD | 7F01-738D | | | | | | | | | | | 79-13 | | | | | | | | | |
| O | O | – | – | | K69 | 4 | 4 | 7F01-54 | 7F01-74 | 7F01-54AA | 7F01-748A | | | | | | | | | | | 79-14 | | | | | | | | | |
| O | O | – | – | | K70 | 5 | 5 | 7F01-55 | 7F01-75 | 7F01-55AB | 7F01-758B | | | | | | | | | | | 79-15 | | | | | | | | | |
| O | O | – | – | | K71 | 6 | 6 | 7F01-56 | 7F01-76 | 7F01-56A8 | 7F01-7688 | | | | | | | | | | | 79-16 | | | | | | | | | |
| O | O | – | – | | K72 | 7 | 7 | 7F01-57 | 7F01-77 | 7F01-57A9 | 7F01-7789 | * SOURCE * | | | | | | | | | | 79-17 | | | | | | | | | |
| O | O | – | – | | K73 | 8 | 8 | 7F01-58 | 7F01-78 | 7F01-58A6 | 7F01-7886 | | | | | | | | | | | 79-18 | | | | | | | | | |
| O | O | – | – | | K74 | 9 | 9 | 7F01-59 | 7F01-79 | 7F01-59A7 | 7F01-7987 | | | | | | | | | | | 79-19 | | | | | | | | | |
| O | O | – | – | | K75 | 0 | 0 | 7F01-5A | 7F01-7A | 7F01-5AA4 | 7F01-7A84 | | | | | | | | | | | 79-10 | | | | | | | | | |
| O | O | – | – | | K76 | +10 | +10 | 7F01-5B | 7F01-7B | 7F01-5BA5 | 7F01-7B85 | | | | | | | | | | | 79-1A | | | | | | | | | |
| O | O | – | – | | K77 | ENT | ENT | 7F01-5C | 7F01-7C | 7F01-5CA2 | 7F01-7C82 | | | | | | | | | | | 79-0B | | | | | | | | | |
| O | – | – | – | "SOURCE" (mode fixed) | K1 | ⏻ SOURCE | ⏻ SOURCE | * SOURCE * | | | | * SOURCE * | | | | | | | | | | 79-60 | * SOURCE * | | | | | | | | |
| O | – | – | – | | K55 | TOP MENU | TOP MENU | 7A-A0DF | 7A-A1DE | 7A-A0DE | 7A-A1DF | * SOURCE * | | | | | | | | | | – | | | | | | | | | |
| | | | | | | | | * switch RCU to "SOURCE" mode | | | | | | | | | | | | | | * RECEIVER * * switch RCU to "SOURCE" mode | | | | | | | | | |
| O | – | – | – | | K56 | POP-UP MENU | POP-UP MENU | 7A-A4DB | 7A-A5DA | 7A-A4DA | 7A-A5DB | | | | | | | | | | | – | | | | | | | | | |
| | | | | | | | | * switch RCU to "SOURCE" mode | | | | | | | | | | | | | | * RECEIVER * * switch RCU to "SOURCE" mode | | | | | | | | | |
| O | – | O | – | | K78 | TV -INPUT | TV -INPUT | * SOURCE (TV) * | | | | | ( TV -INPUT ) | | | | | | | | | | | | | | | | | | | |
| O | – | O | – | | K79 | TV -VOL ( + ) | TV -VOL ( + ) | | | | | | ( TV -VOL + ) | | | | | | | | | | | | | | | | | | | |
| O | – | O | – | | K80 | TV -CH ( + ) | TV -CH ( + ) | | | | | | ( TV -CH + ) | | | | | | | | | | | | | | | | | | | |
| O | – | O | ● | | K81 | TV - ⏻ | TV - ⏻ | | | | | | ( TV -O/I ) | | | | | | | | | | | | | | | | | | | |
| O | – | O | – | | K82 | TV -MUTE | TV -MUTE | | | | | | ( TV -MUTE ) | | | | | | | | | | | | | | | | | | | |
| O | – | O | – | | K83 | TV -VOL ( - ) | TV -VOL ( - ) | | | | | | ( TV -VOL - ) | | | | | | | | | | | | | | | | | | | |
| O | – | O | – | | K84 | TV -CH ( - ) | TV -CH ( - ) | | | | | | ( TV -CH - ) | | | | | | | | | | | | | | | | | | | |

* For learning model: RAV451

* K81: Able to preset the code (only from TV library) in K78/K79/K80/K81/K82/K83/K84.

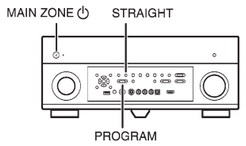
* K58: Change [REC] to [MODE], no code transmitted in "SOURCE" mode

# ■ ADVANCED SETUP

You can configure the system settings of this unit using the front display.

**1 Set this unit to standby mode.**

**2 While holding down STRAIGHT on the font panel, press MAIN ZONE ⏻.**




**3 Press PROGRAM to select an item.**

**4 Press STRAIGHT to select a setting.**

**5 Press MAIN ZONE ⏻ to set this unit to standby mode and turn it on again.**

The new settings become effective.

## ADVANCED SETUP menu items

| Item | Function |
|---|---|
| SPEAKER IMP. | Changes the speaker impedance setting. |
| REMOTE SENSOR | Turns on/off of the remote control sensor on the main unit. |
| REMOTE CON AMP | Selects the remote control ID of the main unit. |
| SIRIUS LOCK (U model) | Resets the Parental Lock code number for SIRIUS Satellite Radio. |
| TUNER FRQ STEP (R, T, K, L models) | Changes the frequency step setting. |
| TV FORMAT | Switches the video signal type. |
| MONITOR CHECK | Removes the limitation on HDMI video output. |
| RECOV./BACKUP | Creates backup of the settings of this unit, or recovers the settings from the backup. |
| INITIALIZE | Restores the default settings. |
| FIRM UPDATE | Updates the firmware. |
| VERSION | Checks the version of firmware currently installed on this unit. |

## Changing the speaker impedance setting (SPEAKER IMP.)

```
SPEAKER IMP.
      8Ω MIN
```

Change the speaker impedance settings of unit depending on the impedance of the speakers connected.

**Settings**

| | |
|---|---|
| 6 Ω MIN | Select this when you connect 6-ohm speakers to this unit. You can also use 4-ohm speakers as the front speakers. |
| 8 Ω MIN (default) | Select this when you connect 8-ohm or higher speakers to this unit. |

## Turning on/off the remote control sensor (REMOTE SENSOR)

```
REMOTE SENSOR
           ON
```

Turn on/off the remote control sensor on the main unit. While the remote control sensor is turned off, you cannot control this unit from the remote control.

**Settings**

| | |
|---|---|
| ON (default) | Turns on the remote control sensor. |
| OFF | Turns off the remote control sensor. |

## Selecting the remote control ID (REMOTE CON AMP)

```
REMOTE CON AMP
           ID1
```

Select the remote control ID of the main unit so that it matches to the ID of the remote control (default: ID1). When using multiple Yamaha AV receivers, you can set each remote control with a unique remote control ID for its corresponding receiver.

**Settings**
ID1 (default), ID2

### ■ Changing the remote control ID of the remote control

Perform each of the following steps within 1 minute. Otherwise, the setting will be automatically canceled.

**1 Press CODE SET on the remote control using a pointed object such as the tip of a ballpoint pen.**

**2 Press SOURCE/RECEIVER.**

**3 Use the numeric keys to enter "5019" (ID1) or "5020" (ID2).**

Once the remote control ID is registered successfully, SOURCE/RECEIVER blinks twice.

If it blinks 6 times, registration failed. Repeat from step 1.

- The registered remote control codes are not cleared even if you change the remote control ID.

## Resetting the Parental Lock code number (SIRIUS LOCK) (U model)

```
SIRIUS LOCK
      CANCEL
```

Reset the Parental Lock code number for SIRIUS Satellite Radio.

**Choices**

| | |
|---|---|
| RESET | Resets the Parental Lock code number. |
| CANCEL | Does not perform a reset. |

## Changing the frequency step setting (TUNER FRQ STEP) (R, T, K, L models)

```
TUNER FRQ STEP
     FM50/AM9
```

Change the frequency step setting of this unit depending on your listening environment.

**Settings**

| | |
|---|---|
| FM100/AM10 | Select this when you want to adjust the FM frequency by 100-kHz steps and AM by 10-kHz steps. |
| FM50/AM9 (default) | Select this when you want to adjust the FM frequency by 50-kHz steps and AM by 9-kHz steps. |

## Switching the video signal type (TV FORMAT)

```
TV FORMAT
        NTSC
```

Switch the video signal type of this unit so that it matches to the format of your TV.

**Settings**
NTSC (default), PAL

## Removing the limitation on HDMI video output (MONITOR CHECK)

```
MONITOR CHECK
          YES
```

This unit automatically detects resolutions supported by a TV connected to the HDMI OUT jacks.
If you want to select a resolution in "Resolution" regardless of the detection results or if this unit does not detect it correctly, disable the monitor check function.

**Settings**

| | |
|---|---|
| YES (default) | Enables the monitor check function. (Outputs video signals with a resolution supported by the TV only.) |
| SKIP | Disables the monitor check function. (Outputs video signals with a specified resolution regardless of compatibility with the TV.) |

- In case this unit becomes inoperable because videos from this unit cannot be displayed on the TV after "MONITOR CHECK" is set to "SKIP", reset the setting to "YES".

## Backing up/recovering the settings (RECOV./BACKUP)

```
RECOV./BACKUP
       BACKUP
```

Creates backup of the settings of this unit, or recovers the settings from the backup.

### ■ Backup/recovery procedure

**1 Press STRAIGHT repeatedly to select "BACKUP" or ""RECOVERY" and press INFO to start the process.**

**Choices**

| | |
|---|---|
| BACKUP | Creates backup of the settings of this unit in the internal memory. |
| RECOVERY | Recovers the settings of this unit from the backup (available only when backup has been created). |

**Note**

- Do not turn off this unit during the recovery process. Otherwise, the settings may not be restored correctly.
- The backup does not contain user information (user account, password, etc.) or unit-specific information (MAC address, IP address, etc).

## Restoring the default settings (INITIALIZE)

```
INITIALIZE
      CANCEL
```

Restores the default settings for the selected item.

**Choices**

| | |
|---|---|
| VIDEO | Restores the default settings for video configurations. |
| ALL | Restores the default settings for this unit. |
| CANCEL | Does not perform an initialization. |

## Updating the firmware (FIRM UPDATE)

New firmware will be released irregularly for the purpose of additional features or product improvements. It can be downloaded from our website. If this unit is connected to the Internet, you can download the firmware via the network. For details, refer to the information supplied with updates.

```
FIRM UPDATE
         USB
```

### ■ Firmware update procedure

Do not perform this procedure unless firmware update is necessary. Also, make sure you read the information supplied with updates before updating the firmware.

**1 Press STRAIGHT repeatedly to select "USB" or "NETWORK" and press INFO to start firmware update.**

**Choices**

| | |
|---|---|
| USB | Update the firmware using a USB memory device. |
| NETWORK | Update the firmware via the network. |

- If this unit detects a newer firmware over the network, the corresponding message will be displayed after ON SCREEN is pressed. In this case, you can also update the firmware of this unit by following the procedure in "Updating the firmware of this unit" (p.124).

## Checking the firmware version (VERSION)

Check the version of firmware currently installed on this unit.

```
VERSION
        x.xx
```

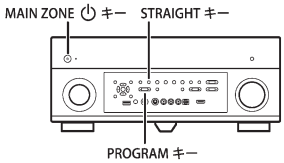
- You can also check the firmware version in "System" (p.117) in the "Information" menu.

# ■ システム設定を変更する

前面ディスプレイを見ながら、本機のシステム設定を変更します。

**1** 本機の電源が入っている場合は、電源をスタンバイにする。

**2** 前面の STRAIGHT キーを押しながら MAIN ZONE ⏻ キーを押す。




**3** PROGRAM キーで設定項目を選ぶ。

**4** STRAIGHT キーで設定値を選ぶ。

**5** MAIN ZONE ⏻ キーで、電源をスタンバイにしてから再度電源を入れる。
設定変更が反映されます。

## アドバンスドセットアップメニューでできること

| 項目 | 説明 |
|---|---|
| REMOTE SENSOR | 本体（リモコン信号受光部）の信号受信を有効 / 無効にします。 |
| REMOTE CON AMP | 本体側のリモコン ID を変更します。 |
| TV FORMAT | ビデオ信号方式を切り替えます。 |
| MONITOR CHECK | HDMI 映像出力の制限を解除します。 |
| RECOV./BACKUP | 本機の各種設定を保存します、また保存した設定を復元します。 |
| INITIALIZE | 各種設定を初期化します。 |
| FIRM UPDATE | ファームウェアを更新します。 |
| VERSION | 本機にインストールされているファームウェアのバージョンを表示します。 |

## リモコン信号の受信設定（REMOTE SENSOR）

```
REMOTE SENSOR
           ON
```

本体（リモコン信号受光部）の信号受信を有効 / 無効にします。信号受信が無効の場合、リモコンで本機を操作することはできません（通常は有効にしておいてください）。

**設定値**

| | |
|---|---|
| ON（初期値） | リモコン信号受信を有効にする。 |
| OFF | リモコン信号受信を無効にする。 |

## リモコン ID の変更（REMOTE CON AMP）

```
REMOTE CON AMP
          ID1
```

リモコン側のリモコン ID（初期値：ID1）と一致するよう、本体側のリモコン ID を変更します。複数のヤマハ製 AV レシーバーをお使いの場合、それぞれのリモコンで各レシーバーを操作するために、リモコン ID が重ならないように設定します。

**設定値**

ID1（初期値）、ID2

**■ リモコン側のリモコン ID 設定**

各手順を 1 分以内に操作してください。前の手順から 1 分経過すると設定が中止されます。

**1** ボールペンなどの先の細長いもので、リモコンの CODE SET ボタンを押す。
**2** SOURCE/RECEIVER キーを押す。
**3** 数字キーで「5019」（ID1 に設定）または「5020」（ID2 に設定）を入力する。
設定が完了すると、SOURCE/RECEIVER キーが 2 回点滅します。
6 回点滅した場合は設定失敗です。手順 1 からやり直してください。

- リモコン ID を変更しても、登録済みのリモコンコードは保持されます。

## ビデオ信号方式の変更（TV FORMAT）

```
TV FORMAT
        NTSC
```

お使いのテレビに合わせて、本機のビデオ信号方式を切り替えます。

**設定値**

NTSC（初期値）、PAL

## HDMI 映像出力の制限解除（MONITOR CHECK）

```
MONITOR CHECK
          YES
```

本機は、HDMI OUT 端子に接続したテレビが対応している解像度を自動的に判別します（モニターチェック）。本機の判別に関わらず「解像度」で出力する解像度を指定したい場合や、テレビの解像度を本機が判別できない場合は、モニターチェックを無効にしてください。

**設定値**

| | |
|---|---|
| YES（初期値） | モニターチェックを有効にする。（テレビが対応している解像度の映像のみ出力） |
| SKIP | モニターチェックを無効にする。（テレビの対応に関わらず映像を出力） |

- 「SKIP」に設定後、本機の映像がテレビ画面に正しく表示されずに本機を操作できない場合は、「YES」に戻してください。

## 設定の保存 / 復元（RECOV./BACKUP）

```
RECOV./BACKUP
       BACKUP
```

本機の各種設定を保存します、また保存した設定を復元します。

**■ 保存 / 復元の手順**

**1** 本体前面の STRAIGHT キーで「BACKUP」または「RECOVERY」を選び、INFO キーで実行する。

**選択項目**

| | |
|---|---|
| BACKUP | 本機の各種設定を内部メモリーに保存する。 |
| RECOVERY | 保存されている設定を復元する（設定が保存されている場合のみ有効）。 |

**注意**

- リカバリー（設定の読み込み）中は本機の電源を操作しないでください。正しく設定が反映されないことがあります。
- ユーザー情報（アカウント、パスワードなど）や本機特有の情報（MAC アドレス、IP アドレスなど）は保存されません。

## 設定の初期化（INITIALIZE）

```
INITIALIZE
        CANCEL
```

選択した項目にしたがって設定を初期化します。

**選択項目**

| | |
|---|---|
| VIDEO | 映像に関する設定を初期化する。 |
| ALL | すべての設定を初期化する。 |
| CANCEL | 初期化しない。 |

## ファームウェアの更新（FIRM UPDATE）

機能の追加や不具合の改善に応じて、新しいファームウェアを提供します。ファームウェアは弊社ウェブサイトからダウンロードできます。本機がインターネットに接続されている場合は、ネットワーク経由で更新することも可能です。詳しくは、ファームウェア更新時に提供される情報をご確認ください。




### ■ ファームウェアの更新手順

ファームウェア更新時以外は実行しないでください。また実行前に、更新時に提供される情報を必ずご確認ください。

**1 本体前面の STRAIGHT キーで「USB」または「NETWORK」を選び、INFO キーで実行する。**

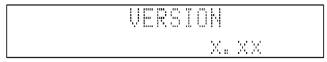
**選択項目**

| | |
|---|---|
| USB | USB メモリーを使ってファームウェアを更新する。 |
| NETWORK | ネットワーク経由でファームウェアを更新する。 |

- ネットワークから最新のファームウェアが検出されると、ON SCREEN キーを押したときにメッセージが表示されます。この場合は、「本機のファームウェアを更新する」の手順でもファームウェアを更新できます。

## ファームウェアバージョンの確認（VERSION）

本機にインストールされているファームウェアのバージョンを表示します。




- 情報メニューの「システム」でもファームウェアのバージョンを確認できます。

RX-A1010

# FIRMWARE UPDATING PROCEDURE

**IMPORTANT NOTICE**

Do not attempt to update your Yamaha receiver using any other data file except those provided directly from the Yamaha website or through your network connection.
Follow the instructions carefully and do not attempt any other procedures not specified in the instructions provided by Yamaha.
Improperly updated products may cause improper operation, and any parts or service required to restore proper operation will not be covered under the Yamaha Limited Warranty.

## Choose from the following 2 methods to update to the latest firmware.

**Click here for Firmware Update Through the Internet**

(Connection to the Internet is required)

**Click here for Firmware Update by USB**

(A USB thumb drive is required)

**In case of error, see the Troubleshooting section**

RX-A1010

## Firmware Update Through the Internet

**Requirement:** Internet connection

Your receiver is connected to the Internet if you can receive Internet radio stations.
(See owner's manual for details)

### 1 Power off the receiver (Standby mode)

### 2 Enter the ADVANCED SETUP mode

While pressing the **STRAIGHT** button, press the **MAIN ZONE** button and keep **STRAIGHT** button pressed until "ADVANCED SETUP" appears on the front panel display.

* "ADVANCED SETUP" is displayed only for a few seconds.




### 3 Select "FIRM UPDATE" from the menu

a. Press the **PROGRAM** button until "FIRM UPDATE USB" is displayed.

b. Then, press **STRAIGHT** button until "NETWORK" is displayed.




### 4 Start firmware update

a. Press **INFO** button to start the update.

(Update process may take up to 15 minutes)

* If "UPDATE SUCCESS" appears, this means your receiver is already up-to-date. In this case, power off to exit from Advanced Setup. Your AV receiver is ready for normal use.

**Firmware update in progress**




**Caution**

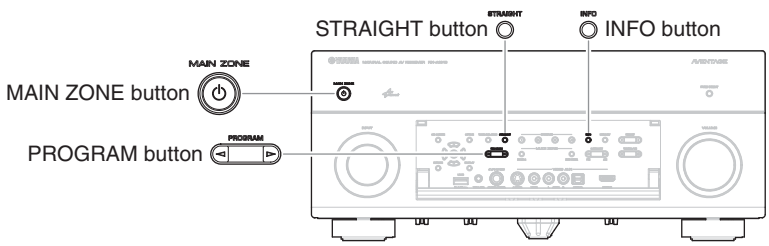
DO NOT interrupt power during the update.

In case the power is accidentally cut off resulting in a condition where you can't recover normal operation, refer to the troubleshooting method (**Troubleshooting CASE 2**) on the last page.

b. When completed, "UPDATE SUCCESS" appears on the display.




c. Turn off the power of the receiver by pressing the **MAIN ZONE** button.



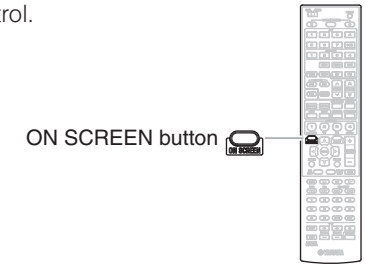
RX-A1010

## 5 Check the updated firmware version

a. Power on the AV receiver and press the **ON SCREEN** button on the remote control.

b. Select “Information” > “System”.

c. Confirm that the firmware version is updated to the latest version.




## Congratulations!

You have completed the firmware update. Your AV receiver is ready for normal use.

RX-A1010

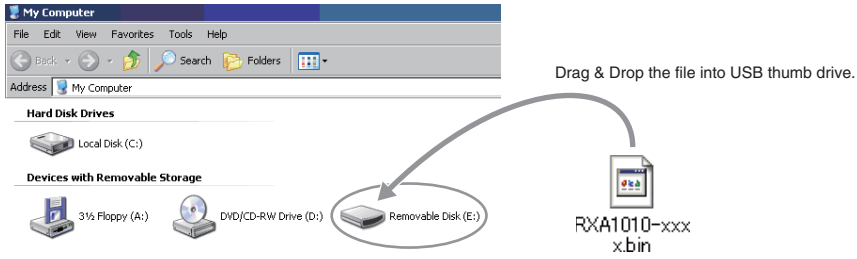
## Firmware Update by USB

**Requirement:** USB thumb drive, with enough free space to store over 25MB.
(File system with FAT16 or FAT32 format)

Firmware file provided by YAMAHA,"RXA1010–xxxx.bin".

### 1 Prepare USB thumb drive for the update

Download the firmware, unzip and copy "RXA1010–xxxx.bin" into the root directory of the USB thumb drive.




### 2 Power off the receiver (Standby mode)

### 3 Insert the USB thumb drive

USB port is located at the lower left corner of the front panel.

### 4 Enter the ADVANCED SETUP mode

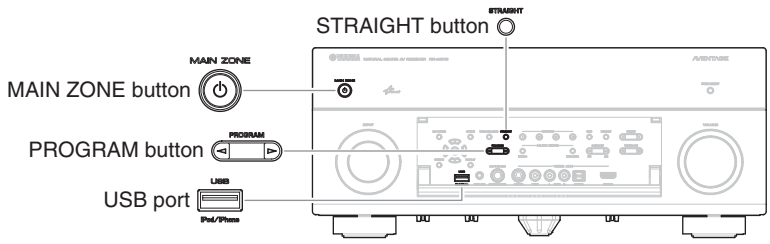
While pressing the **STRAIGHT** button, press the **MAIN ZONE** button and keep **STRAIGHT** button pressed until "ADVANCED SETUP" appears on the front panel display.




### 5 Select firmware update from the menu

Press the **PROGRAM** button until "FIRM UPDATE USB" is displayed.



RX-A1010

## 6 Start firmware update

a. Press **INFO** button to start the update.

(Update process may take up to 10 minutes)

* If "UPDATE SUCCESS" appears, this means your receiver is already up-to-date. In this case, power off to exit from Advanced Setup. Your AV receiver is ready for normal use.

**Firmware update in progress**




**Caution**

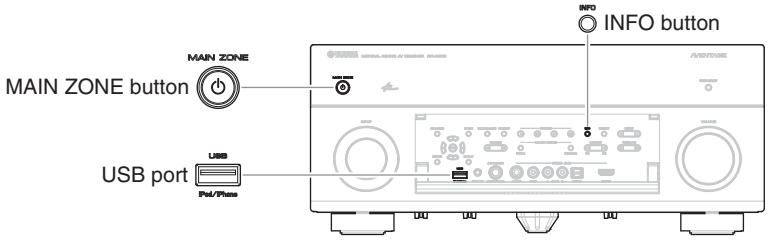
DO NOT interrupt power during the update.

In case the power is accidentally cut off resulting in a condition where you can't recover normal operation, refer to the troubleshooting method (**Troubleshooting CASE 2**) on the last page.

b. When completed, "UPDATE SUCCESS" appears on the display.




c. Turn off the power of the receiver by pressing the **MAIN ZONE** button.

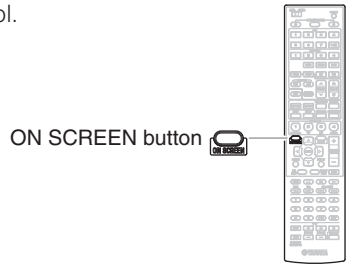



## 7 Check the updated firmware version

a. Power on the AV receiver and press the **ON SCREEN** button on the remote control.

b. Select "Information" > "System".

c. Confirm that the firmware version is updated to the latest version.




## Congratulations!

You have completed the firmware update. Your AV receiver is ready for normal use.

# Troubleshooting

## CASE 1 Error message appeared during the update

**Cause:** For some reason, the receiver can't read the firmware data.

**Method:** For your solution, check the following

**[Update through Internet]**

- ❏ Check Internet connection.
  Your Internet connection is working by playing an Internet radio station.
  (See owner's manual for details)

**[Update by USB thumb drive]**

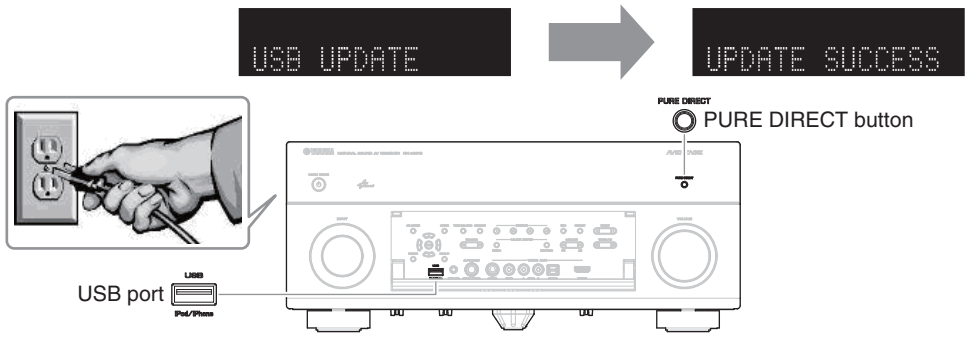
- ❏ USB thumb drive is connected properly to the receiver.
- ❏ USB thumb drive is not password protected.
  (AV receiver cannot read data from a security protected USB thumb drive)
- ❏ Make sure the USB thumb drive is inserted before the receiver is powered on for the update.
- ❏ The firmware data, RXA1010–xxxx.bin is stored in the root directory of the USB thumb drive.
- ❏ There is no other data except the firmware data in the USB thumb drive.
- ❏ No folders are created in the USB thumb drive.
  Else, retry the update by USB using another USB thumb drive.

## CASE 2 Firmware update doesn't start for other reasons

- **Receiver doesn't power up after the update.**
- **Or, "ERROR" appeared when confirming the firmware version.**

**Recovery method using USB method:**

1. Unplug the AC power cable from wall outlet.
2. Insert the USB thumb drive which has the firmware data stored inside, into the USB port located on the front panel.
3. Press and hold the **PURE DIRECT** button and keep it pressed while you plug the AC power cable back into the wall outlet again.
   "USB UPDATE" will appear on the front display. Then, release the **PURE DIRECT** button.
4. The update will start automatically.
5. When "UPDATE SUCCESS" appears on the display, firmware update is completed.
   Power off the receiver and remove the USB thumb drive.
6. Confirm updated firmware version.



RX-V1071

# FIRMWARE UPDATING PROCEDURE

**IMPORTANT NOTICE**

Do not attempt to update your Yamaha receiver using any other data file except those provided directly from the Yamaha website or through your network connection.
Follow the instructions carefully and do not attempt any other procedures not specified in the instructions provided by Yamaha.
Improperly updated products may cause improper operation, and any parts or service required to restore proper operation will not be covered under the Yamaha Limited Warranty.

## Choose from the following 2 methods to update to the latest firmware.

**Click here for Firmware Update Through the Internet**

(Connection to the Internet is required)

**Click here for Firmware Update by USB**

(A USB thumb drive is required)

**In case of error, see the Troubleshooting section**

RX-V1071

## Firmware Update Through the Internet

**Requirement:** Internet connection

Your receiver is connected to the Internet if you can receive Internet radio stations.
(See owner's manual for details)

### 1 Power off the receiver (Standby mode)

### 2 Enter the ADVANCED SETUP mode

While pressing the **STRAIGHT** button, press the **MAIN ZONE** button and keep **STRAIGHT** button pressed until "ADVANCED SETUP" appears on the front panel display.

* "ADVANCED SETUP" is displayed only for a few seconds.




### 3 Select "FIRM UPDATE" from the menu

a. Press the **PROGRAM** button until "FIRM UPDATE USB" is displayed.

b. Then, press **STRAIGHT** button until "NETWORK" is displayed.




### 4 Start firmware update

a. Press **INFO** button to start the update.

(Update process may take up to 15 minutes)

* If "UPDATE SUCCESS" appears, this means your receiver is already up-to-date. In this case, power off to exit from Advanced Setup. Your AV receiver is ready for normal use.

**Firmware update in progress**




**Caution**

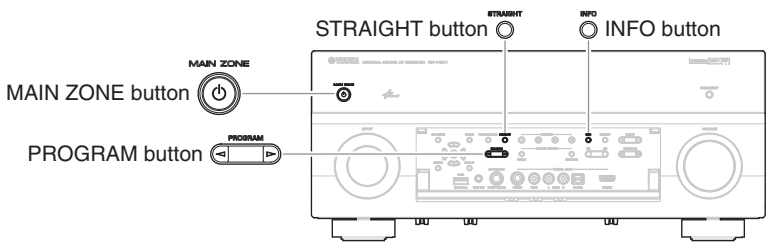
DO NOT interrupt power during the update.

In case the power is accidentally cut off resulting in a condition where you can't recover normal operation, refer to the troubleshooting method (**Troubleshooting CASE 2**) on the last page.

b. When completed, "UPDATE SUCCESS" appears on the display.




c. Turn off the power of the receiver by pressing the **MAIN ZONE** button.



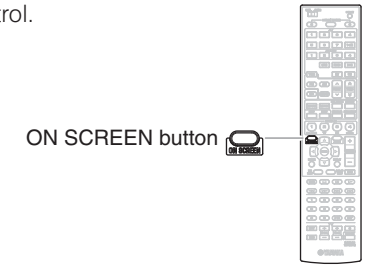
RX-V1071

## 5 Check the updated firmware version

a. Power on the AV receiver and press the **ON SCREEN** button on the remote control.

b. Select “Information” > “System”.

c. Confirm that the firmware version is updated to the latest version.




## Congratulations!

You have completed the firmware update. Your AV receiver is ready for normal use.

RX-V1071

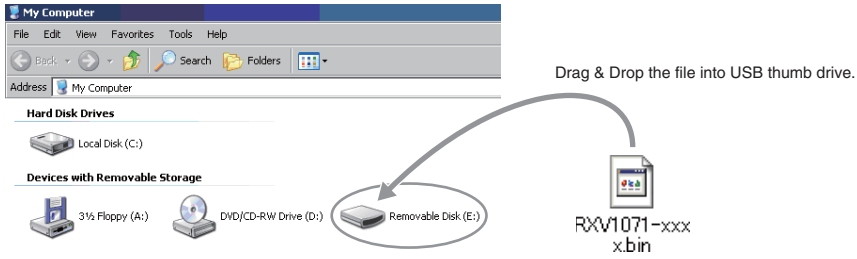
## Firmware Update by USB

**Requirement:** USB thumb drive, with enough free space to store over 25MB.
(File system with FAT16 or FAT32 format)

Firmware file provided by YAMAHA,"RXV1071–xxxx.bin".

### 1 Prepare USB thumb drive for the update

Download the firmware, unzip and copy "RXV1071–xxxx.bin" into the root directory of the USB thumb drive.




### 2 Power off the receiver (Standby mode)

### 3 Insert the USB thumb drive

USB port is located at the lower left corner of the front panel.

### 4 Enter the ADVANCED SETUP mode

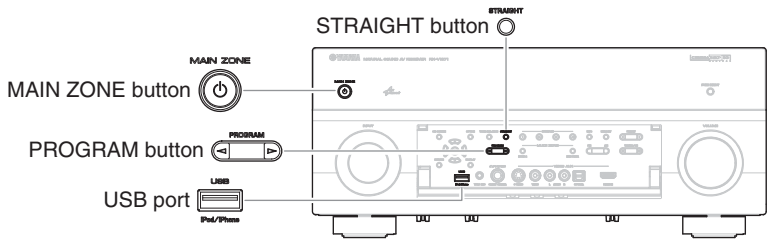
While pressing the **STRAIGHT** button, press the **MAIN ZONE** button and keep **STRAIGHT** button pressed until "ADVANCED SETUP" appears on the front panel display.




### 5 Select firmware update from the menu

Press the **PROGRAM** button until "FIRM UPDATE USB" is displayed.



RX-V1071

## 6 Start firmware update

a. Press **INFO** button to start the update.

(Update process may take up to 10 minutes)

* If "UPDATE SUCCESS" appears, this means your receiver is already up-to-date. In this case, power off to exit from Advanced Setup. Your AV receiver is ready for normal use.

**Firmware update in progress**




**Caution**

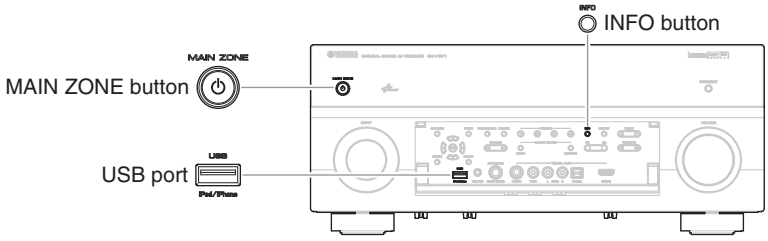
DO NOT interrupt power during the update.

In case the power is accidentally cut off resulting in a condition where you can't recover normal operation, refer to the troubleshooting method (**Troubleshooting CASE 2**) on the last page.

b. When completed, "UPDATE SUCCESS" appears on the display.




c. Turn off the power of the receiver by pressing the **MAIN ZONE** button.

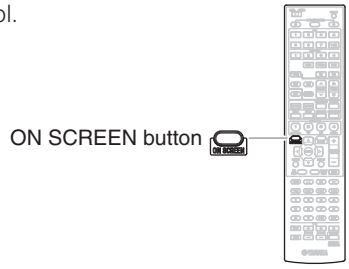



## 7 Check the updated firmware version

a. Power on the AV receiver and press the **ON SCREEN** button on the remote control.

b. Select "Information" > "System".

c. Confirm that the firmware version is updated to the latest version.




## Congratulations!

You have completed the firmware update. Your AV receiver is ready for normal use.

RX-V1071

# Troubleshooting

## CASE 1 Error message appeared during the update

**Cause:** For some reason, the receiver can't read the firmware data.

**Method:** For your solution, check the following

**[Update through Internet]**

❏ Check Internet connection.
Your Internet connection is working by playing an Internet radio station.
(See owner's manual for details)

**[Update by USB thumb drive]**

❏ USB thumb drive is connected properly to the receiver.

❏ USB thumb drive is not password protected.
(AV receiver cannot read data from a security protected USB thumb drive)

❏ Make sure the USB thumb drive is inserted before the receiver is powered on for the update.

❏ The firmware data, RXV1071–xxxx.bin is stored in the root directory of the USB thumb drive.

❏ There is no other data except the firmware data in the USB thumb drive.

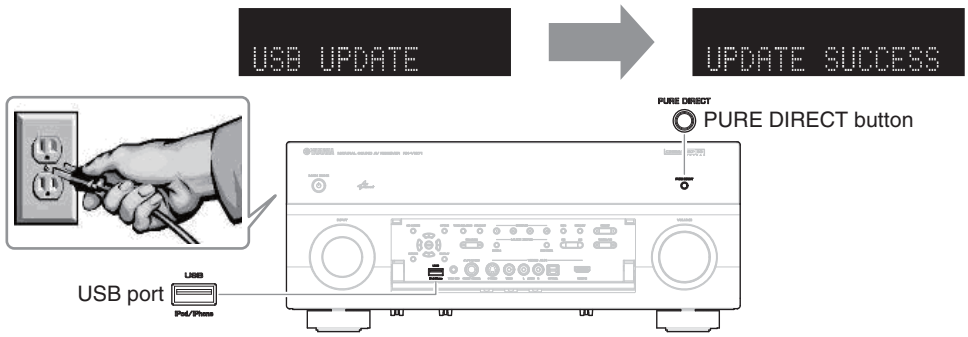
❏ No folders are created in the USB thumb drive.
Else, retry the update by USB using another USB thumb drive.

## CASE 2 Firmware update doesn't start for other reasons

- **Receiver doesn't power up after the update.**
- **Or, "ERROR" appeared when confirming the firmware version.**

**Recovery method using USB method:**

1. Unplug the AC power cable from wall outlet.
2. Insert the USB thumb drive which has the firmware data stored inside, into the USB port located on the front panel.
3. Press and hold the **PURE DIRECT** button and keep it pressed while you plug the AC power cable back into the wall outlet again.
"USB UPDATE" will appear on the front display. Then, release the **PURE DIRECT** button.
4. The update will start automatically.
5. When "UPDATE SUCCESS" appears on the display, firmware update is completed.
Power off the receiver and remove the USB thumb drive.
6. Confirm updated firmware version.



RX-A1010

# ファームウェア更新手順

**重要**

当社がネットワーク経由またはホームページ上などでご提供する正式なアップデートデータ以外の使用や、当社からお知らせする方法以外でのアップデートは行わないでください。不正な状態で本体機能の更新を行った場合、動作保証を行わないだけでなく、アフターサービスおよび保証の対象外となります。

## 次のいずれかの方法で AV アンプのファームウェアを更新してください。

**AV アンプがインターネットに接続されている場合こちらをクリックしてください。**

（インターネットラジオが使用できる環境）

**AV アンプがインターネットに接続されていない場合はこちらをクリックしてください。**

（USB メモリーをご用意ください）

**更新中にエラーが発生したときの対処方法はこちらをクリックしてください。**

RX-A1010

# ネットワーク経由でファームウェアを更新する

**必要環境：** 本機がインターネットに接続されている必要があります。

本機の「インターネットラジオ」機能が使用できる環境であることをご確認ください。
（インターネット接続に関しては、取扱説明書を参照してください）

## 1 AV アンプの電源を切る（スタンバイモード）

## 2 ADVANCED SETUP モードで本機を立ち上げる

本機の **STRAIGHT ボタン** を押したまま **MAIN ZONE ボタン** を押します。

※ “ADVANCED SETUP” が本体に表示されるまで **STRAIGHT ボタン** を押し続けてください。
数秒後、表示が “REMOTE SENSOR” に切り替わります。




## 3 FIRM UPDATE を選択する

a. “FIRM UPDATE USB” が表示されるまで **PROGRAM ボタン** を何度か押します。

b. 次に **STRAIGHT ボタン** を押し、“NETWORK” を選択します。




## 4 ファームウェア更新を開始する

a. 本機の **INFO ボタン** を押すと更新を開始します。
（完了まで 15 分ほどかかる場合があります）

※ “UPDATE SUCCESS” が表示された場合は、すでに本機のファームウェアが最新である可能性があります。
その場合 **ファームウェア更新は不要** です。

**ファームウェア更新中**




**ご注意**

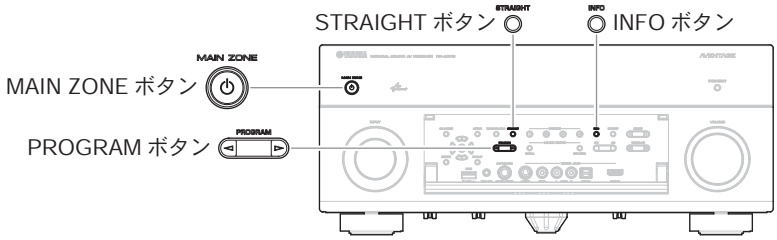
更新中は **電源を絶対に切らない** でください。

本機が立ち上がらなくなってしまった場合は、最終ページに記載されているリカバリー方法（「**エラーが発生した時の対処方法**」）で復帰してください。

b. “UPDATE SUCCESS” が本機に表示されましたら更新完了です。




c. 本機の **MAIN ZONE ボタン** を押し、電源を切ってください。



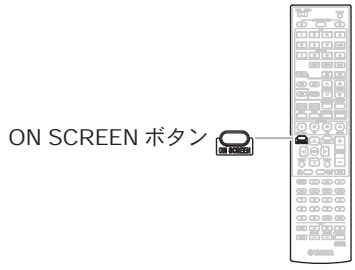
RX-A1010

## 5 ファームウェア更新後のバージョンを確認します

a. AV アンプの電源を入れ、**リモコン** の **ON SCREEN ボタン** を押します。

b. “情報” の中の “システム” を選択します。

c. 現在のファームウェアバージョンが最新になっていることを確認します。




## 以上でファームウェア更新作業は終了です。

RX-A1010

# USB メモリーを使ってファームウェアを更新する

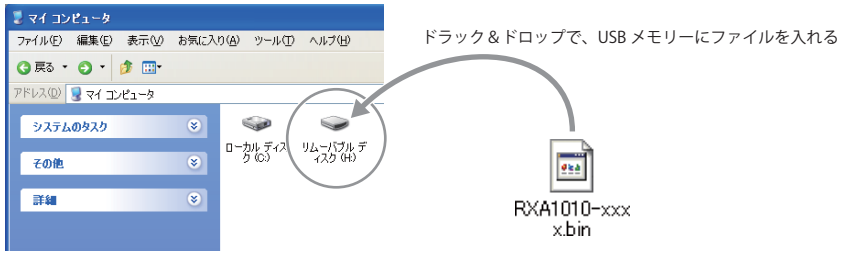
**ご用意いただくもの：** USB メモリー（25 MB 以上の容量が必要です）
FAT16 または FAT32 フォーマット

ヤマハホームページからダウンロードしたファームウェアデータ
“RXA1010-xxxx.zip”

## 1 パソコン上で USB メモリー内のデータを消去し、空の状態にします

## 2 USB メモリーにファームウェアをコピーします

パソコン上でファームウェアデータ（RXA1010-xxxx.zip）を展開し、ファームウェア“RXA1010-xxxx.bin”を USB メモリーに入れてください。
（フォルダ等の階層は作成しないでください）




## 3 電源ケーブルがコンセントに正しく挿入されていて、電源が切れていること（スタンバイ状態）を確認します

## 4 USB メモリーを差込みます

フロントパネル内の USB 端子に、USB メモリーを挿入してください。

## 5 ADVANCED SETUP モードで本機を立ち上げます

本機の **STRAIGHT ボタン** を押したまま **MAIN ZONE ボタン** を押します。

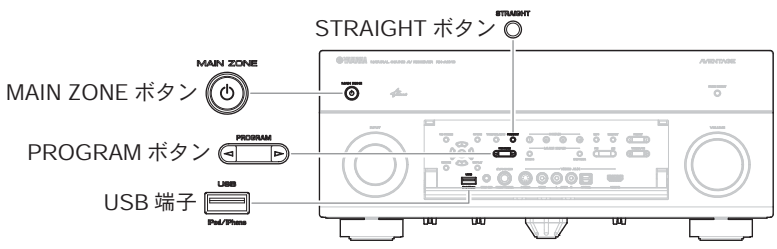
※ “ADVANCED SETUP” が本体に表示されるまで **STRAIGHT ボタン** を押し続けてください。
数秒後、表示が “REMOTE SENSOR” に切り替わります。




## 6 FIRM UPDATE USB を選択する

“FIRM UPDATE USB” が表示されるまで **PROGRAM ボタン** を何度か押します。



RX-A1010

## 7 ファームウェア更新を開始する

a. 本機の **INFO ボタン** を押すと更新を開始します。
（完了まで 10 分ほどかかる場合があります）

※ “UPDATE SUCCESS” が表示された場合は、すでに本機のファームウェアが最新である可能性があります。その場合 **ファームウェア更新は不要** です。

**ファームウェア更新中**




**ご注意**

更新中は **電源を絶対に切らない** でください。

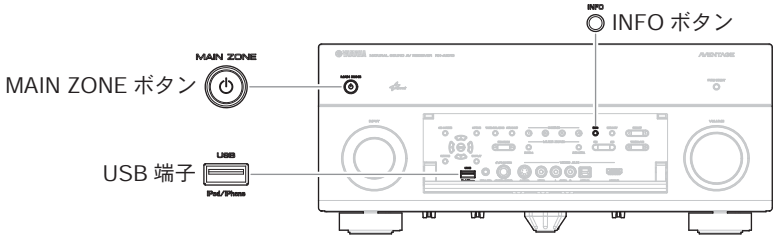
本機が立ち上がらなくなってしまった場合は、最終ページに記載されているリカバリー方法（「**エラーが発生した時の対処方法**」）で復帰してください。

b. “UPDATE SUCCESS” が本機に表示されましたら更新完了です。




c. 本機の **MAIN ZONE ボタン** を押し、電源を切ってください。

d. USB メモリーを本機から抜いてください。

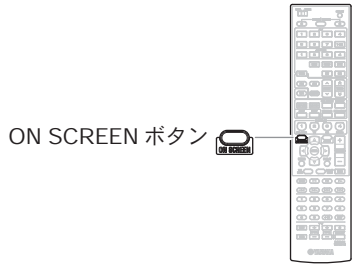



## 8 ファームウェア更新後のバージョンを確認します

a. AV アンプの電源を入れ、**リモコン** の **ON SCREEN ボタン** を押します。

b. “情報” の中の “システム” を選択します。

c. 現在のファームウェアバージョンが最新になっていることを確認します。




## 以上でファームウェア更新作業は終了です。

# エラーが発生した時の対処方法

## ケース 1 更新中にエラーメッセージが表示された

**推定原因：** 何らかの理由でファームウェアデータが読めない。

**対処法：** 以下の項目を確認してください。

**[ネットワーク経由の更新の場合]**

❑ インターネット接続設定を確認してください。
本機の「インターネットラジオ」機能が使用できる環境であることを確認してください。
（インターネット接続に関しては取扱説明書を参照してください。）

**[USB メモリーを使う更新の場合]**

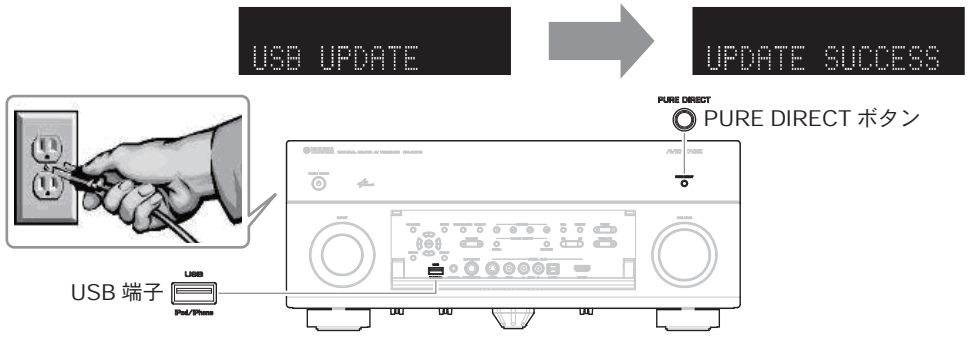
❑ USB メモリーが本機に正しく差し込まれていることを確認してください。
❑ USB メモリーがパスワード等で保護されてないことを確認してください。
（セキュリティー保護された USB メモリーは読み込めません。）
❑ 更新用の USB メモリーは電源を入れる前に AV アンプに差し込んでください。
❑ ファームウェアデータ（RXA1010-xxxx.bin）が何らかのフォルダの中に入っていないことを確認してください。
（ルートにファイルがあること）
❑ USB メモリー内にフォルダが作られていないことを確認してください。
それでも更新できない場合は、他の USB メモリーを使い再度更新をおこなってください。

## ケース 2 その他の理由で更新がうまくいかない

- **MAIN ZONE ボタン を押しても本機が起動しなくなった。**
- **更新後、ファームウェアバージョンを確認すると、本機で “ERROR ” が表示された。**

**復帰方法：**

1. 電源ケーブルをコンセントから抜きます。
2. ファームウェアの入った USB メモリーを本機に差し込みます。
3. 本機の **PURE DIRECT ボタン** を押したまま電源ケーブルをコンセントに差し込みます。
“USB UPDATE ” が本機に表示されたら **PURE DIRECT ボタン** を離してください。
4. 更新が自動的に始まります。
5. 本機で “UPDATE SUCCESS ” が表示されたら更新完了です。
電源を切り USB メモリーを抜いてください。
6. 更新されたファームウェアバージョンを確認してください。




## ケース 3 リモコンが効かなくなってしまった

**推定原因：** Advanced Setup の設定を変えてしまった。

**対処法：** 以下の Advanced Setup 項目を確認してください。

❑ REMOTE SENSOR 設定が “ON” になっていることを確認してください。
❑ REMOTE CON AMP 設定が “ID1” になっていることを確認してください。
（工場出荷時の “ID1” から変更がない場合）

# MEMO

# RX-A1010/RX-V1071

YAMAHA