XAV-60/E60

SERVICE MANUAL

Ver. 1.2 2010.11

Photo: XAV-60

US Model
Canadian Model
AEP Model
UK Model
E Model
XAV-60
Russian Model
XAV-E60

Model Name Using Similar Mechanism	NEW
Mechanism Type	MG-613C-187
Optical Pick-up Name	KHS-360A

SPECIFICATIONS

FOR UNITED STATES CUSTOMERS. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.

POUR LES CONSOMMATEURS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

AUDIO POWER SPECIFICATIONS (US model only)

CEA2006 Standard
Power Output: 17 Watts RMS × 4 at
4 Ohms < 1% THD+N
SN Ratio: 82 dBA
(reference: 1 Watt into 4 Ohms)

Monitor section

Display type: Wide LCD color monitor
Dimensions: 6.1 in
System: TFT active matrix
Number of pixels: 1,152,000 pixels
Color system:
PAL/NTSC/SECAM/PAL-M automatic select

Tuner section

FM

Tuning range:
US and Canadian models: 87.5 – 107.9 MHz
AEP and UK models: 87.5 – 108.0 MHz
Russian model:
FM1/FM2: 87.5 – 108.0 MHz
(at 50 kHz step)
FM3: 65 – 74 MHz (at 30 kHz step)
Asian model:
87.5 – 108.0 MHz (at 50 kHz step)
Latin American model:
87.5 – 107.9 MHz (at 200 kHz step)
Saudi Arabia model:
87.5 – 108.0 MHz (at 50 kHz step)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 150 kHz
Usable sensitivity: 10 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 70 dB (mono)
Separation: 40 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

AM (US and Canadian models)

Tuning range: 530 – 1,710 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Sensitivity: 26 µV

AM (E model)

Tuning range:
Asian model:
531 – 1,602 kHz (at 9 kHz step)
Latin American model:
530 – 1,710 kHz (at 10 kHz step)
Saudi Arabia model:
531 – 1,602 kHz (at 9 kHz step)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Sensitivity: 26 µV

MW/LW (AEP, UK and Russian model)

Tuning range:
MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Sensitivity: MW: 26 µV, LW: 45 µV

DVD/CD Player section

Signal-to-noise ratio: 120 dB
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below measurable limit
Harmonic distortion: 0.01 %
Region code: Labeled on the bottom of the unit

USB Player section

Interface: USB (Full-speed)
Maximum current: 500 mA

Power amplifier section

Outputs: Speaker outputs
Speaker impedance: 4 – 8 ohms
Maximum power output: 52 W 4 (at 4 ohms)

General

Outputs:
Video output terminal (rear)
Audio output terminals (front/rear)
Subwoofer output terminal
Power antenna (aerial) relay control terminal
Power amplifier control terminal

Inputs:
Telephone ATT control terminal
Illumination control terminal
BUS control input terminal
(US and Canadian models only)
Remote controller input terminal
Antenna (aerial) input terminal
Parking break control terminal
Reverse input terminal
Camera input terminal
AUX audio input terminals
AUX video input terminals
USB signal input connector
External input terminal
(Asian and Saudi Arabia models only)
Power requirements: 12 V DC car battery
(negative ground (earth))
Dimensions: Approx. 178 100 173 mm
(7 1/8 4 6 7/8 in) (w/h/d)
Mounting dimensions: Approx. 182 111 164 mm
(7 1/4 4 3/8 6 1/2 in) (w/h/d)
Mass: Approx. 2.2 kg (4 lb 14 oz)
Supplied accessories:
Card remote commander: RM-X170
Parts for installation and connections (1 set)
Extension cord for AUX audio/video input terminals
CD-ROM (Application disc)

Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information.

US and foreign patents licensed from Dolby Laboratories.

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

This product is protected by certain intellectual property rights of Microsoft Corporation. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary.

Design and specifications are subject to change without notice.

AV CENTER

9-889-748-03
2010K05-1

Sony Corporation
Published by Sony Techno Create Corporation

SONY®

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

Microsoft, Windows, Windows Vista and Windows Media and logos are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

DivX®, DivX Certified® and associated logos are registered trademarks of DivX, Inc.

ZAPPIN is a trademark of Sony Corporation.

"DVD VIDEO," "DVD-R," "DVD-RW," "DVD+R," and "DVD+RW" are trademarks.

ZAPPIN is a trademark of Sony Corporation.

12 TONE ANALYSIS and its logo are trademarks of Sony Corporation.

"WALKMAN" and "WALKMAN" logo are registered trademarks of Sony Corporation.

SensMe and the SensMe logo are trademarks or registered trademarks of Sony Ericsson Mobile Communications AB.

Music recognition technology and related data are provided by Gracenote®. Gracenote is the industry standard in music recognition technology and related content delivery. For more information, please visit www.gracenote.com.

CD and music-related data from Gracenote, Inc., copyright © 2000-2010 Gracenote. Gracenote Software, copyright © 2000-2010 Gracenote. This product and service may practice one or more of the following U.S. Patents: #5,987,525; #6,061,680; #6,154,773, #6,161,132, #6,230,192, #6,230,207, #6,240,459, #6,330,593, and other patents issued or pending. Some services supplied under license from Open Globe, Inc. for U.S. Patent: #6,304,523.

Gracenote and CDDB are registered trademarks of Gracenote. The Gracenote logo and logotype, and the "Powered by Gracenote" logo are trademarks of Gracenote.

This product uses font data which is licensed to Sony by Monotype Imaging Inc. or its affiliates.

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

iPhone is a trademark of Apple Inc.

Apple, Macintosh and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

THIS PRODUCT IS LICENSED UNDER THE MPEG-4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER FOR DECODING MPEG-4 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED BY MPEG LA TO PROVIDE MPEG-4 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL, INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA, LLC. SEE HTTP://WWW.MPEGLA.COM

The "HD Radio Ready" logo indicates that this product will control a Sony HD Radio™ tuner (sold separately).
For HD Radio™ tuner operation, please refer to the HD Radio™ tuner Operating Instructions.

HD Radio™ and the HD Radio Ready logo are proprietary trademarks of iBiquity Digital Corp.

The "SAT Radio Ready" logo indicates that this product will control a satellite radio tuner module (sold separately). Please see your nearest authorized Sony dealer for details on the satellite radio tuner module.
"SAT Radio," "SAT Radio Ready," the SAT Radio and SAT Radio Ready logos and all related marks are trademarks of Sirius XM Radio Inc. and XM Satellite Radio Inc.

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

FLEXIBLE CIRCUIT BOARD REPAIRING

- Keep the temperature of soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

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

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

- Except US and Canadian models.

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

CAUTION : CLASS 1M VISIBLE/INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

This label is located on the drive unit's internal chassis.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

TABLE OF CONTENTS

Accessories are given in the last of the electrical parts list.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

NOTE THE IC4, IC11 AND IC13 ON THE SERVO BOARD REPLACING

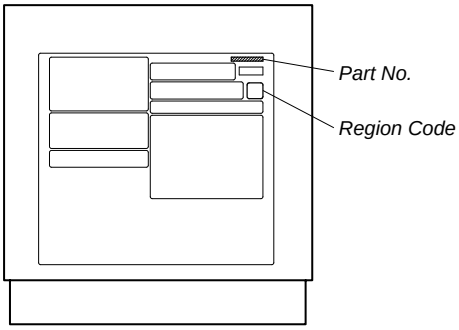
IC4, IC11 and IC13 on the SERVO board cannot exchange with single. When these parts are damaged, exchange the entire mounted board.

NOTE FOR REPLACING THE COMPLETE AUDIO BOARD

If the complete AUDIO board was replaced, be sure to refer to Technical News published separately.

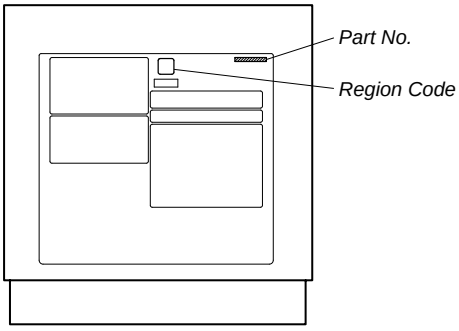
MODEL IDENTIFICATION

– Bottom View –
(US and Canadian models)



Label indication			Destination
Signal format system	Region code	Part No.	
NTSC	1	4-163-706-0□	US and Canadian models
PAL	2	4-163-707-0□	AEP and UK models
PAL	2	4-195-528-0□	Saudi Arabia model
PAL	3	4-163-709-0□	E (PAL) model
NTSC	4	4-163-710-0□	E (NTSC) model
PAL	5	4-163-708-0□	Russian model

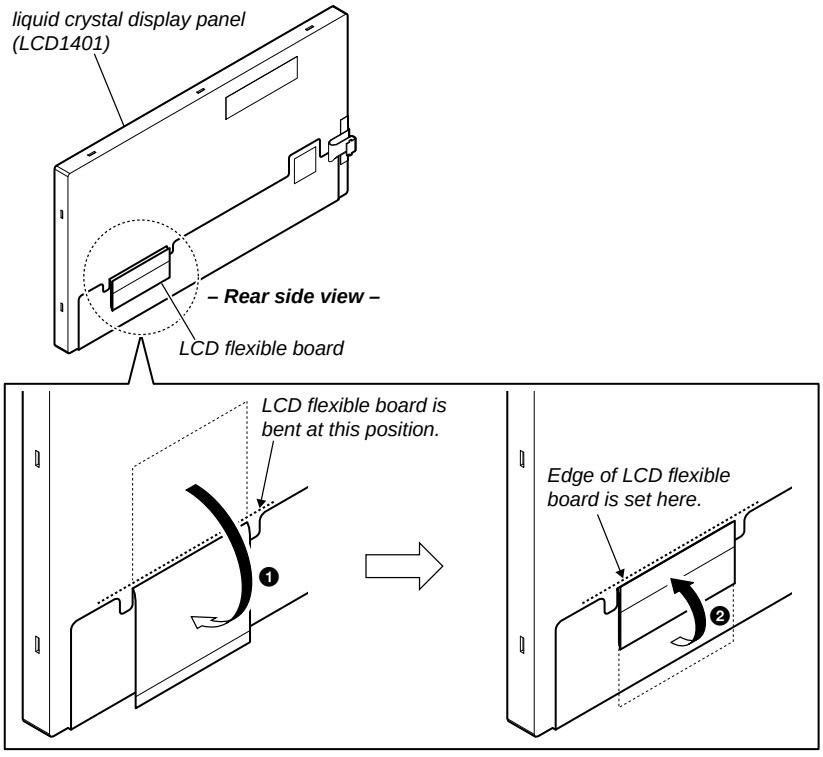
– Bottom View –
(AEP, Russian, UK, E and Saudi Arabia models)



NOTE OF REPLACING THE LIQUID CRYSTAL DISPLAY PANEL (LCD1401)

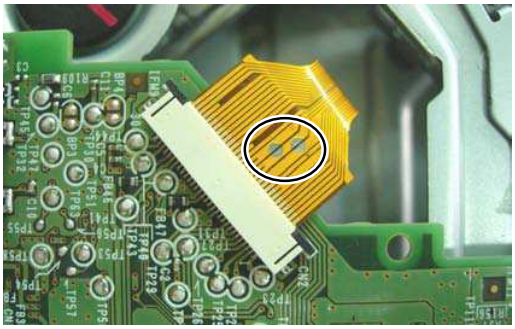
Please bend LCD flexible board correctly as shown in the figure below.

Note: LCD flexible board comes in contact with chassis when liquid crystal display panel (LCD1401) is installed if LCD flexible board is not correctly bent.



NOTE FOR FLEXIBLE BOARD OF THE OPTICAL PICK-UP

When connecting or disconnecting the flexible board of the optical pick-up to or from the CN2 of the SERVO board, follow the procedure given below.



Note: When soldering the short lands, solder within 5 seconds at the temperature of soldering iron below 300°C.

Disconnection:

1. Solder two shortland.
2. Disconnect the flexible board from the CN2 of the SERVO board.

Connection:

1. Connect the flexible board to the CN2 of the SERVO board.
2. Unsolder two shortland.

RELEASING METHOD OF SECURITY

1. Releasing Method from Normal Screen

Procedure:

1. Touch the "TOP" button on the monitor, next, touch the "🧰" button on the monitor to display the following screen (setup screen) on the monitor.

2. Touch the "Security Control" button on the monitor.
3. When the user is setting the security code, the following screen is displayed on the monitor.

4. When you know the security code, touch the number of security code on the monitor (When you don't know the security code, refer to 2. releasing method after cold start). When the security code agrees, screen shifts to the setup screen (Even if you make a mistake in the security code, you can input it again and again).
5. When the user isn't setting the security code, the following screen is displayed on the monitor.

6. You can set the security code by inputting the same code twice.

2. Releasing Method after Cold Start

Procedure:

1. When the user is setting the security code, after the cold start, the following screen is displayed on the monitor.

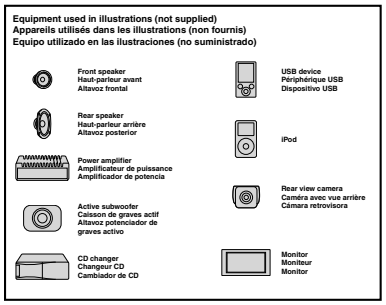
2. When you know the security code, touch the number of security code on the monitor. When the security code agrees, screen shifts to the initial setting screen (Even if you make a mistake in the security code, you can input it again and again).
3. When you don't know the security code, input of master code on the remote commander. Master code is confirm to service headquarters. When the master code agrees, screen shifts to the initial setting screen (Even if you make a mistake in the master code, you can input it again and again).
4. When the user isn't setting the security code, after the cold start, the following screen is displayed on the monitor.

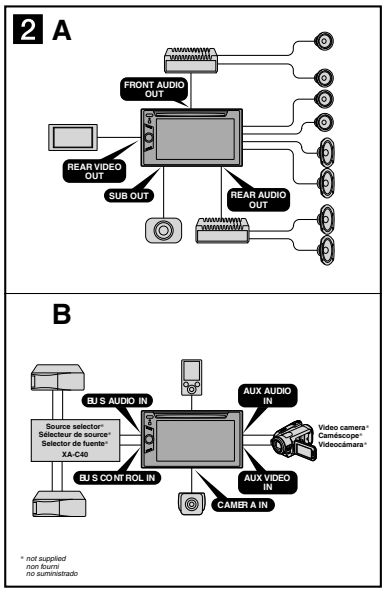
5. Touch the "OK" button on the monitor to display the normal screen on the monitor.

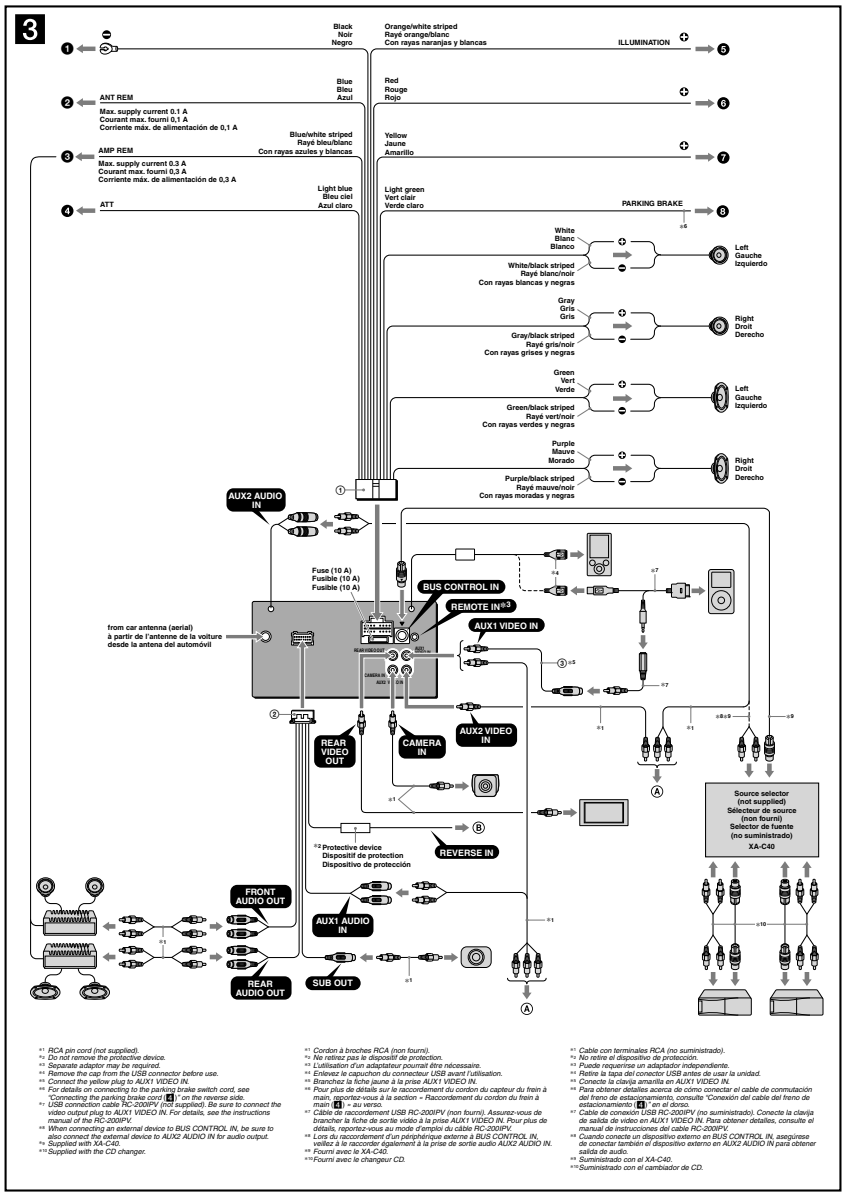
SECTION 2
GENERAL

This section is extracted from instruction manual.

(US and Canadian models)







*1 RCA pin cord (not supplied).
*2 Do not remove the protective device.
*3 Separate adaptor may be required.
** Remove the cap from the USB connector before use.
*** Connect the yellow plug to AUX1 VIDEO IN.
**** For details on connecting to the parking brake switch cord, see "Connecting the parking brake cord (❹)" on the reverse side.
*+ USB connection cable RC-200IPV (not supplied). Be sure to connect the video output plug to AUX1 VIDEO IN. For details, see the instructions manual of the RC-200IPV.
*+ When connecting an external device to BUS CONTROL IN, be sure to also connect the external device to AUX2 AUDIO IN for audio output.
*+ Supplied with XA-C40.
*++ Supplied with the CD changer.

*1 Cordon à broches RCA (non fourni).
*2 Ne retirez pas le dispositif de protection.
*3 L'utilisation d'un adaptateur pourrait être nécessaire.
** Enlevez le capuchon du connecteur USB avant l'utilisation.
*** Branchez la fiche jaune à la prise AUX1 VIDEO IN.
**** Pour plus de détails sur le raccordement du cordon du capteur du frein à main, reportez-vous à la section « Raccordement du cordon du frein à main (❹) » au verso.
*+ Câble de raccordement USB RC-200IPV (non fourni). Assurez-vous de brancher la fiche de sortie vidéo à la prise AUX1 VIDEO IN. Pour plus de détails, reportez-vous au mode d'emploi du câble RC-200IPV.
*+ Lors du raccordement d'un périphérique externe à BUS CONTROL IN, veillez à le raccorder également à la prise de sortie audio AUX2 AUDIO IN.
*+ Fourni avec le XA-C40.
*++ Fourni avec le changeur CD.

*1 Cable con terminales RCA (no suministrado).
*2 No retire el dispositivo de protección.
*3 Puede requerirse un adaptador independiente.
** Retire la tapa del conector USB antes de usar la unidad.
*** Conecte la clavija amarilla en AUX1 VIDEO IN.
**** Para obtener detalles acerca de cómo conectar el cable de conmutación del freno de estacionamiento, consulte "Conexión del cable del freno de estacionamiento (❹)" en el dorso.
*+ Cable de conexión USB RC-200IPV (no suministrado). Conecte la clavija de salida de video en AUX1 VIDEO IN. Para obtener detalles, consulte el manual de instrucciones del cable RC-200IPV.
*+ Cuando conecte un dispositivo externo en BUS CONTROL IN, asegúrese de conectar también el dispositivo externo en AUX2 AUDIO IN para obtener salida de audio.
*+ Suministrado con el XA-C40.
*++ Suministrado con el cambiador de CD.

Cautions

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not disassemble or modify the unit.
- Do not install in locations which interfere with airbag operation.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- The use of optical instruments with this product will increase eye hazard.
- Do not press on the LCD when installing the unit.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Connection example 2

***Notes* (2-A)**

- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

***Note* (2-B)**

You cannot use the optional devices simultaneously, even if they are connected to all the terminals. If you connect an optional device to BUS CONTROL IN, AUX2 IN is not available.

***Tip* (2-B)**

For connecting two or more CD changers, the source selector XA-C40 (not supplied) is necessary.

Connection diagram 3

❶ **To a metal surface of the car**
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

❷ **To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster**
Notes
- *It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To a car's illumination signal**
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

❻ **To the +12 V power terminal which is energized in the accessory position of the ignition switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❼ **To the +12 V power terminal which is energized at all times**
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

❽ **To the parking brake switch cord**

Ⓐ **To auxiliary equipment such as a portable media player, game, etc. (not supplied)**
Tip
You can use the supplied RCA pin cord ③, or an optional one.

Ⓑ **To the +12 V power terminal of the car's back lamp lead (only when connecting the rear view camera)**

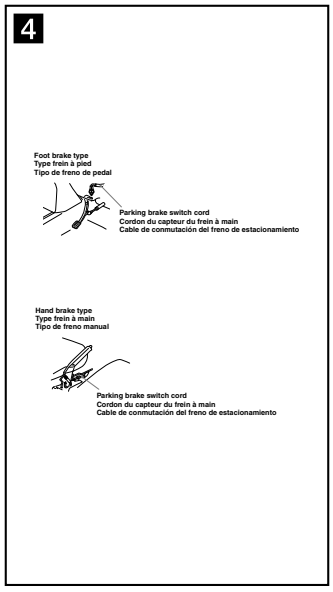
Notes on the control and power supply leads
- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

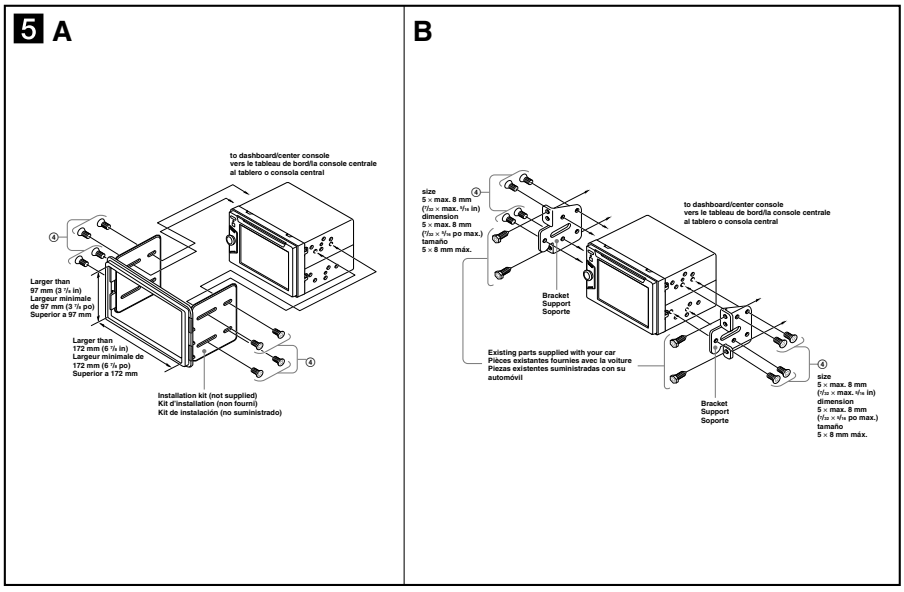
Memory hold connection

When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Notes on connection
- *If speaker and amplifier are not connected correctly, "Output connection failure." appears in the display. In this case, make sure the speaker and amplifier are connected correctly.*
- *If you are to use the monitor for the rear seats, connect the parking brake switch cord to the ground (earth).*





Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Connecting the parking brake cord 4

Be sure to connect the parking cord (light green) of ① to the parking brake switch cord. The mounting position of the parking brake switch cord depends on your car. Consult your car dealer or your nearest Sony dealer for further details.

Mounting the unit 5

5-A Mounting the unit with an installation kit (not supplied)

You can use a commercially available double DIN installation kit. Choose an installation kit with the following panel frame size.
Larger than 172 × 97 mm (6 7/8 × 3 7/8 in) (w/h), with inner corner radius less than 0.5 mm (1/32 in).

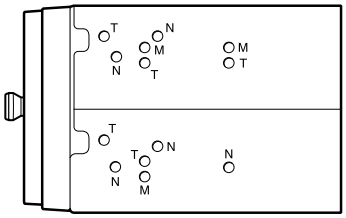
Notes

- *Be sure to use the supplied screws ④.*
- *Before installing the unit with the installation kit mounted, be sure to perform the following confirmation.*
  Power the unit on, open/close the front panel by pressing ⏏ repeatedly to check the front panel does not touch the installation kit.

5-B Mounting the unit in a Japanese car

You may be able to install this unit in some makes of Japanese cars without an installation kit (not supplied). In the case you cannot, consult your Sony dealer.

When mounting this unit to the preinstalled brackets of your car, use the supplied screws ④ in the appropriate screw holes, according to your car: T for TOYOTA, M for MITSUBISHI and N for NISSAN.



Notes

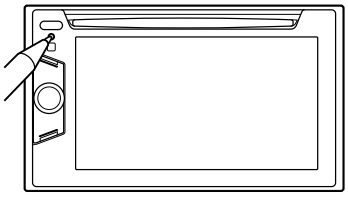
- *To prevent malfunction, install only with the supplied screws ④.*
- *Do not apply excessive force to the buttons of the unit.*
- *Do not press on the LCD.*
- *Before mounting, make sure there is nothing on the top of the unit.*

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions.
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold SOURCE/OFF until the display disappears each time you turn the ignition off.

Reset button

When the installation and connections are completed, be sure to press the reset button with a ball-point pen, etc.



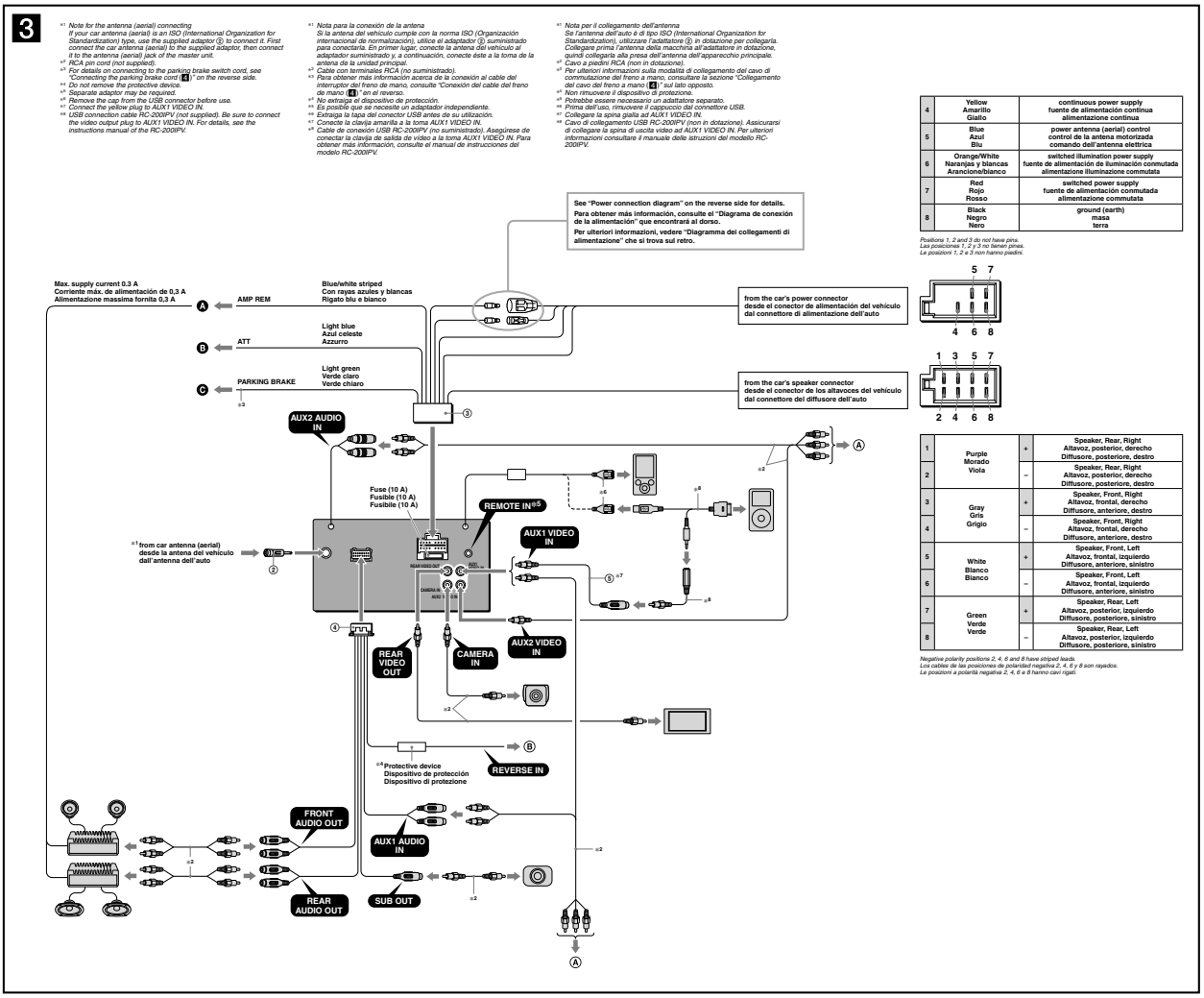
(AEP, Russian and UK models)

3

**1 Note for the antenna (aerial) connecting*
If your car antenna (aerial) is an ISO (International Organization for Standardization) type, use the supplied adaptor ⑤ to connect it. First connect the car antenna (aerial) to the supplied adaptor, then connect it to the antenna (aerial) jack of the master unit.
**2 RCA pin cord (not supplied).*
**3 For details on connecting to the parking brake switch cord, see "Connecting the parking brake cord (C)" on the reverse side.*
**4 Do not remove the protective device.*
**5 Separate adaptor may be required.*
**6 Remove the cap from the USB connector before use.*
**7 Connect the yellow plug to AUX1 VIDEO IN.*
**8 USB connection cable RC-200IPV (not supplied). Be sure to connect the video output plug to AUX1 VIDEO IN. For details, see the instructions manual of the RC-200IPV.*

**1 Nota para la conexión de la antena*
Si la antena del vehículo cumple con la norma ISO (Organización internacional de normalización), utilice el adaptador ⑤ suministrado para conectarla. En primer lugar, conecte la antena del vehículo al adaptador suministrado y, a continuación, conecte éste a la toma de la antena de la unidad principal.
**2 Cable con terminales RCA (no suministrado).*
**3 Para obtener más información acerca de la conexión al cable del interruptor del freno de mano, consulte "Conexión del cable del freno de mano (C)" en el reverso.*
**4 No extraiga el dispositivo de protección.*
**5 Es posible que se necesite un adaptador independiente.*
**6 Extraiga la tapa del conector USB antes de su utilización.*
**7 Conecte la clavija amarilla a la toma AUX1 VIDEO IN.*
**8 Cable de conexión USB RC-200IPV (no suministrado). Asegúrese de conectar la clavija de salida de vídeo a la toma AUX1 VIDEO IN. Para obtener más información, consulte el manual de instrucciones del modelo RC-200IPV.*

**1 Nota per il collegamento dell'antenna*
Se l'antenna dell'auto è di tipo ISO (International Organization for Standardization), utilizzare l'adattatore ⑤ in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
**2 Cavo a piedini RCA (non in dotazione).*
**3 Per ulteriori informazioni sulla modalità di collegamento del cavo di commutazione del freno a mano, consultare la sezione "Collegamento del cavo del freno a mano (C)" sul lato opposto.*
**4 Non rimuovere il dispositivo di protezione.*
**5 Potrebbe essere necessario un adattatore separato.*
**6 Prima dell'uso, rimuovere il cappuccio dal connettore USB.*
**7 Collegare la spina gialla ad AUX1 VIDEO IN.*
**8 Cavo di collegamento USB RC-200IPV (non in dotazione). Assicurarsi di collegare la spina di uscita video ad AUX1 VIDEO IN. Per ulteriori informazioni consultare il manuale delle istruzioni del modello RC-200IPV.*



4	Yellow Amarillo Giallo		continuous power supply fuente de alimentación continua alimentazione continua
5	Blue Azul Blu		power antenna (aerial) control control de la antena motorizada comando dell'antenna elettrica
6	Orange/White Naranjas y blancas Arancione/bianco		switched illumination power supply fuente de alimentación de iluminación conmutada alimentazione illuminazione commutata
7	Red Rojo Rosso		switched power supply fuente de alimentación conmutada alimentazione commutata
8	Black Negro Nero		ground (earth) masa terra

Positions 1, 2 and 3 do not have pins.
Las posiciones 1, 2 y 3 no tienen pines.
Le posizioni 1, 2 e 3 non hanno piedini.

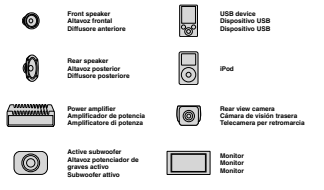
5 7
4 6 8

1 3 5 7
2 4 6 8

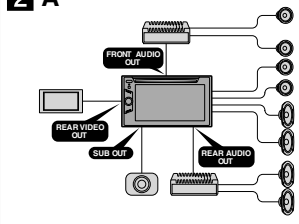
1	Purple Morado Viola	+	Speaker, Rear, Right Altavoz, posterior, derecho Diffusore, posteriore, destro
2		–	Speaker, Rear, Right Altavoz, posterior, derecho Diffusore, posteriore, destro
3	Gray Gris Grigio	+	Speaker, Front, Right Altavoz, frontal, derecho Diffusore, anteriore, destro
4		–	Speaker, Front, Right Altavoz, frontal, derecho Diffusore, anteriore, destro
5	White Blanco Bianco	+	Speaker, Front, Left Altavoz, frontal, izquierdo Diffusore, anteriore, sinistro
6		–	Speaker, Front, Left Altavoz, frontal, izquierdo Diffusore, anteriore, sinistro
7	Green Verde Verde	+	Speaker, Rear, Left Altavoz, posterior, izquierdo Diffusore, posteriore, sinistro
8		–	Speaker, Rear, Left Altavoz, posterior, izquierdo Diffusore, posteriore, sinistro

Negative polarity positions 2, 4, 6 and 8 have striped leads.
Los cables de las posiciones de polaridad negativa 2, 4, 6 y 8 son rayados.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.

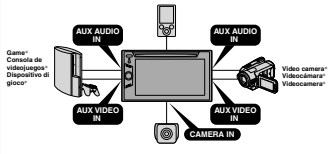
Equipment used in illustrations (not supplied)
Equipo utilizado en las ilustraciones (no suministrado)
Apparecchiatura utilizzata nelle illustrazioni (non in dotazione)



2 A



B



** not supplied*
no suministrados
non in dotazione

Cautions

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not disassemble or modify the unit.
- Do not install in locations which interfere with airbag operation.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power supply lead ③ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Do not press on the LCD when installing the unit.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Connection example 2

***Notes* (2-A)**

- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

***Note* (2-B)**

You cannot use the optional devices simultaneously, even if they are connected to all the terminals.

Connection diagram 3

Ⓐ To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
Ⓑ To the interface cable of a car telephone
Ⓒ To the parking brake switch cord
Ⓐ To auxiliary equipment such as a portable media player, game, etc. (not supplied)
Tip
You can use the supplied RCA pin cord ⑤, or an optional one.
Ⓑ To the +12 V power terminal of the car's back lamp lead (only when connecting the rear view camera)

Warning

If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power supply lead ③ may damage the antenna (aerial).

Notes on the control and power supply leads

- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

Memory hold connection

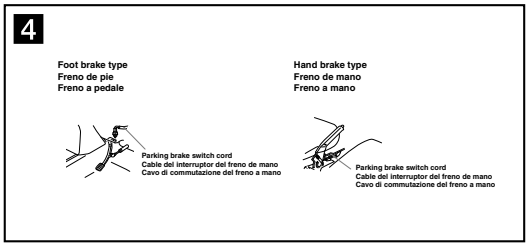
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

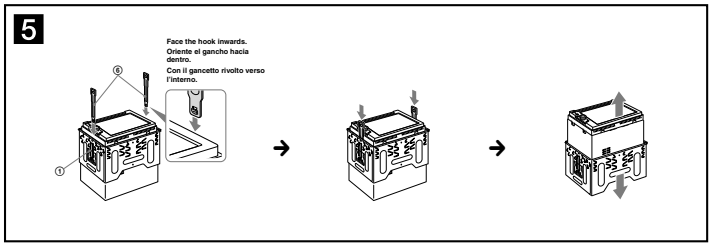
Notes on speaker connection

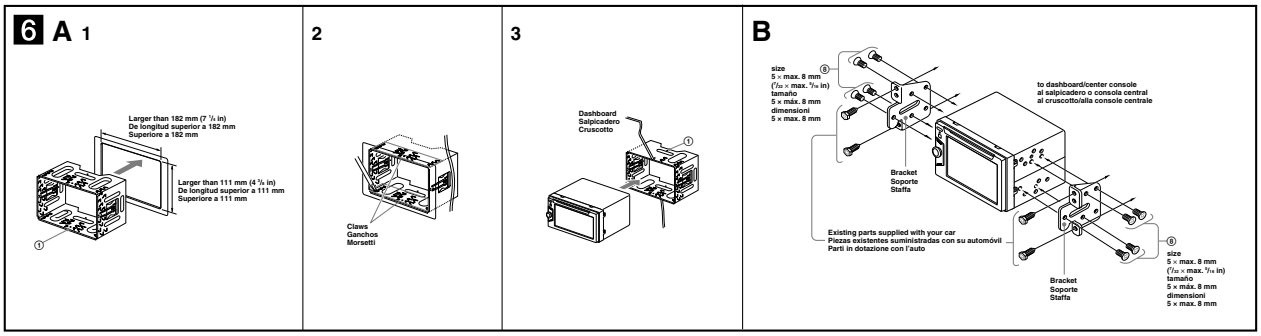
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Notes on connection

- *If speaker and amplifier are not connected correctly, "Output connection failure." appears in the display. In this case, make sure the speaker and amplifier are connected correctly.*
- *If you are to use the monitor for the rear seats, connect the parking brake switch cord to the ground (earth).*







Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Connecting the parking brake cord 4

Be sure to connect the parking cord (light green) of ③ to the parking brake switch cord. The mounting position of the parking brake switch cord depends on your car. Consult your car dealer or your nearest Sony dealer for further details.

Removing the bracket 5

Before installing the unit, remove the bracket ① from the unit.

1. **Insert both release keys ⑥ together between the unit and the bracket ① until they click.**
2. **Pull down the bracket ①, then pull up the unit to separate.**

Mounting the unit 6

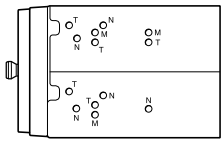
6-A Mounting the unit with the supplied bracket

***Note* (6-A-2)**
Bend these claws outward for a tight fit.

6-B Mounting the unit in a Japanese car

You may be able to install this unit in some makes of Japanese cars without the supplied bracket. In the case you cannot, consult your Sony dealer.

When mounting this unit to the preinstalled brackets of your car, use the supplied screws ⑧ in the appropriate screw holes, according to your car: T for TOYOTA, M for MITSUBISHI and N for NISSAN.



Notes

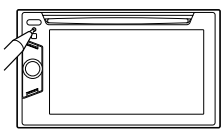
- *To prevent malfunction, install only with the supplied screws ⑧.*
- *Do not apply excessive force to the buttons of the unit.*
- *Do not press on the LCD.*
- *Before mounting, make sure there is nothing on the top of the unit.*

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions.
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold (SOURCE/OFF) until the display disappears each time you turn the ignition off.

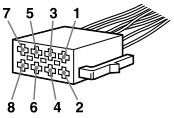
Reset button

When the installation and connections are completed, be sure to press the reset button with a ball-point pen, etc.

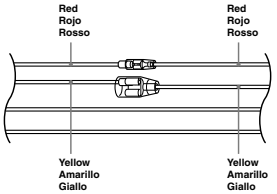


Power connection diagram

Auxiliary power connector may vary depending on the car. Check your car's auxiliary power connector diagram to make sure the connections match correctly. There are three basic types (illustrated below). You may need to switch the positions of the red and yellow leads in the car stereo's power supply lead.
After matching the connections and switched power supply leads correctly, connect the unit to the car's power supply. If you have any questions and problems connecting your unit that are not covered in this manual, please consult the car dealer.

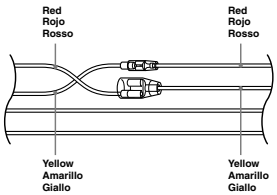


a



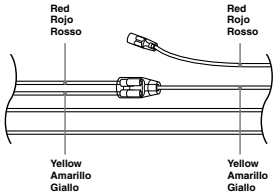
4	Yellow Amarillo Giallo	continuous power supply fuente de alimentación continua alimentazione continua	7	Red Rojo Rosso	switched power supply fuente de alimentación conmutada alimentazione commutate

b



4	Yellow Amarillo Giallo	switched power supply fuente de alimentación conmutada alimentazione commutate	7	Red Rojo Rosso	continuous power supply fuente de alimentación continua alimentazione continua

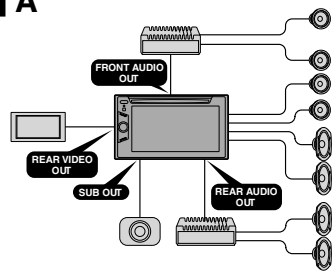
c



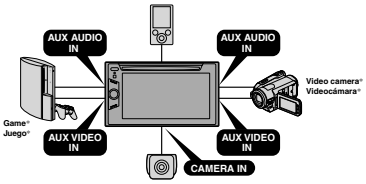
the car without ACC position
Vehículo sin posición ACC
Auto priva della posizione ACC

(E and Saudi Arabia models)

2 A

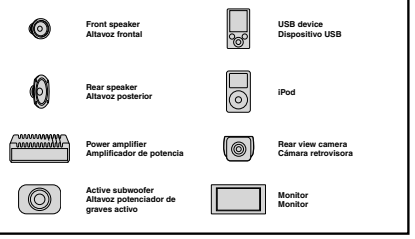


B

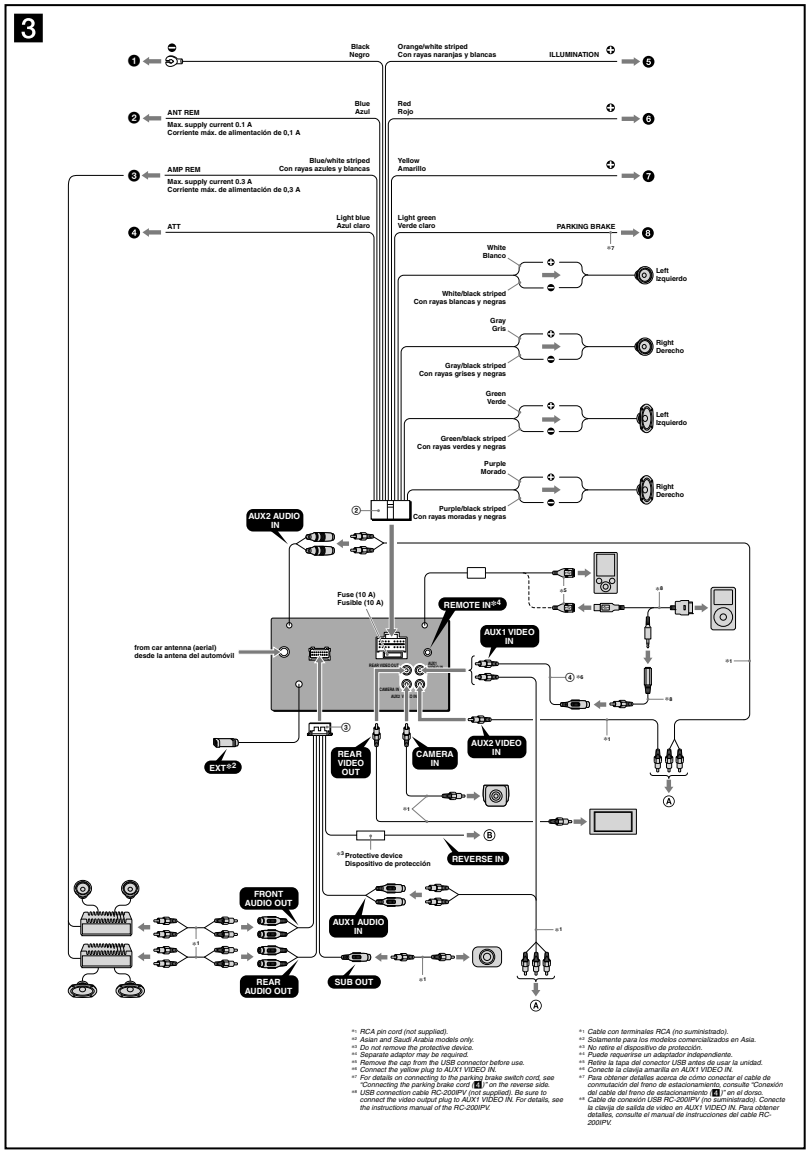


* not supplied
no suministrado

Equipment used in illustrations (not supplied)
Equipo utilizado en las ilustraciones (no suministrado)



3



*1 RCA pin cord (not supplied).
*2 Asian and Saudi Arabia models only.
*3 Do not remove the protective device.
*4 Separate adaptor may be required.
*5 Remove the cap from the USB connector before use.
*6 Connect the yellow plug to AUX1 VIDEO IN.
*7 For details on connecting to the parking brake switch cord, see "Connecting the parking brake cord (2)" on the reverse side.
*8 USB connection cable RC-200IPV (not supplied). Be sure to connect the video output plug to AUX1 VIDEO IN. For details, see the instructions manual of the RC-200IPV.

*1 Cable con terminales RCA (no suministrado).
*2 Solamente para los modelos comercializados en Asia.
*3 No retire el dispositivo de protección.
*4 Puede requerirse un adaptador independiente.
*5 Retire la tapa del conector USB antes de usar la unidad.
*6 Conecte la clavija amarilla en AUX1 VIDEO IN.
*7 Para obtener detalles acerca de cómo conectar el cable de conmutación del freno de estacionamiento, consulte "Conexión del cable del freno de estacionamiento (2)" en el dorso.
*8 Cable de conexión USB RC-200IPV (no suministrado). Conecte la clavija de salida de video en AUX1 VIDEO IN. Para obtener detalles, consulte el manual de instrucciones del cable RC-200IPV.

Cautions

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not disassemble or modify the unit.
- Do not install in locations which interfere with airbag operation.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Do not press on the LCD when installing the unit.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Connection example 2

***Notes* (2-A)**

- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

***Note* (2-B)**

You cannot use the optional devices simultaneously, even if they are connected to all the terminals.

Connection diagram 3

❶ To a metal surface of the car
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

❷ To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster
Notes
- *It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❸ To AMP. REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ To the interface cable of a car telephone

❺ To a car's illumination signal
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

❻ To the +12 V power terminal which is energized in the accessory position of the ignition switch
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❼ To the +12 V power terminal which is energized at all times
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

❽ To the parking brake switch cord

Ⓐ To auxiliary equipment such as a portable media player, game, etc. (not supplied)
Tip
You can use the supplied RCA pin cord Ⓐ, or an optional one.

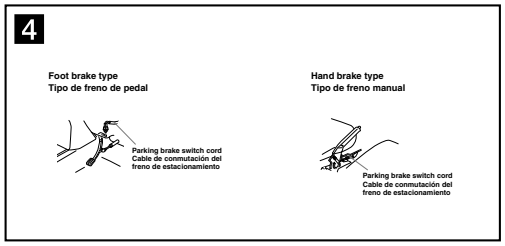
Ⓑ To the +12 V power terminal of the car's back lamp lead (only when connecting the rear view camera)

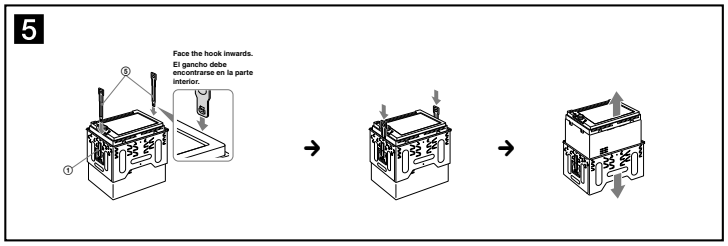
Notes on the control and power supply leads
- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

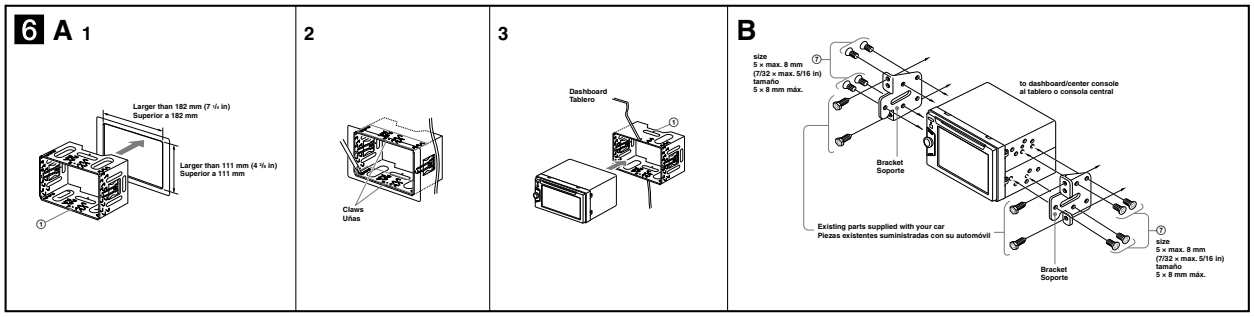
Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Notes on connection
- *If speaker and amplifier are not connected correctly, "Output connection failure." appears in the display. In this case, make sure the speaker and amplifier are connected correctly.*
- *If you are to use the monitor for the rear seats, connect the parking brake switch cord to the ground (earth).*







Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Connecting the parking brake cord 4

Be sure to connect the parking cord (light green) of ② to the parking brake switch cord. The mounting position of the parking brake switch cord depends on your car. Consult your car dealer or your nearest Sony dealer for further details.

Removing the bracket 5

Before installing the unit, remove the bracket ① from the unit.

1. **Insert both release keys ⑤ together between the unit and the bracket ① until they click.**
2. **Pull down the bracket ①, then pull up the unit to separate.**

Mounting the unit 6

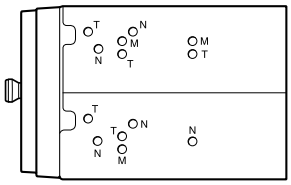
6-A Mounting the unit with the supplied bracket

***Note* (6-A-2)**
Bend these claws outward for a tight fit.

6-B Mounting the unit in a Japanese car

You may be able to install this unit in some makes of Japanese cars without the supplied bracket. In the case you cannot, consult your Sony dealer.

When mounting this unit to the preinstalled brackets of your car, use the supplied screws ⑦ in the appropriate screw holes, according to your car: T for TOYOTA, M for MITSUBISHI and N for NISSAN.



Notes

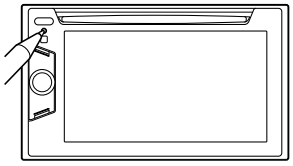
- *To prevent malfunction, install only with the supplied screws ⑦.*
- *Do not apply excessive force to the buttons of the unit.*
- *Do not press on the LCD.*
- *Before mounting, make sure there is nothing on the top of the unit.*

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions.
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold (SOURCE/OFF) until the display disappears each time you turn the ignition off.

Reset button

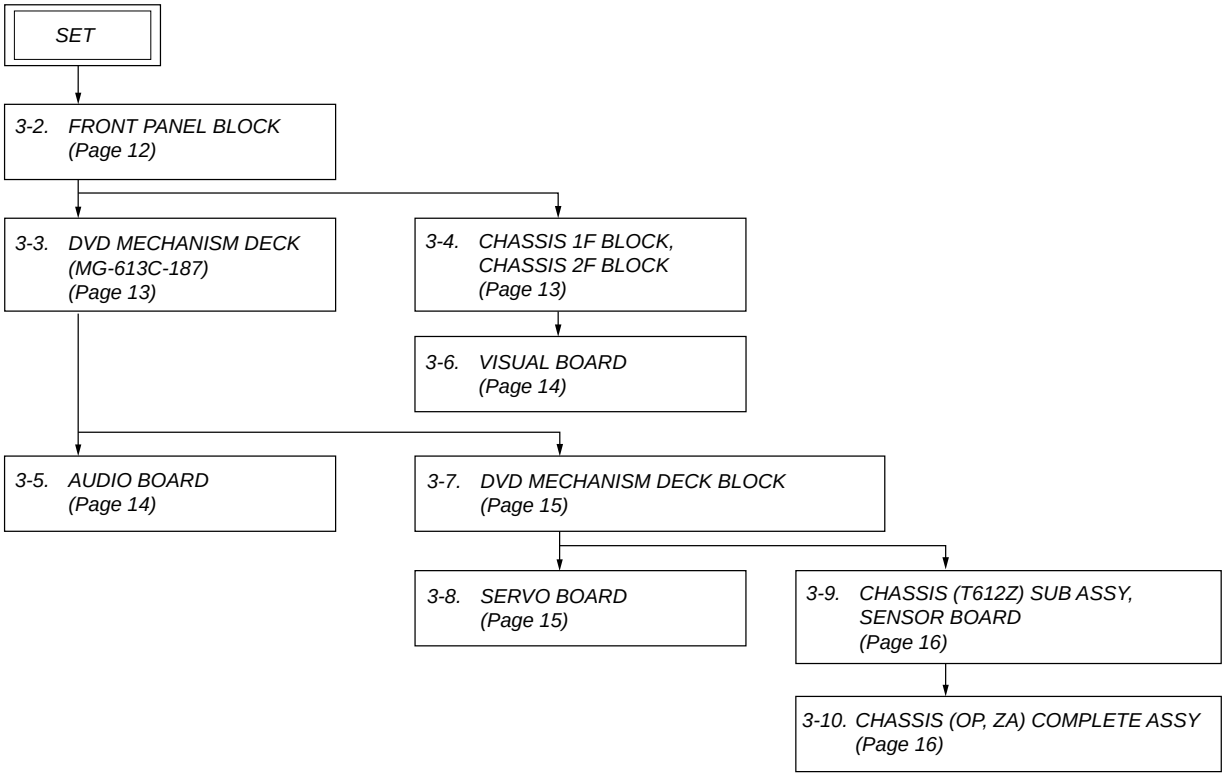
When the installation and connections are completed, be sure to press the reset button with a ball-point pen, etc.



SECTION 3
DISASSEMBLY

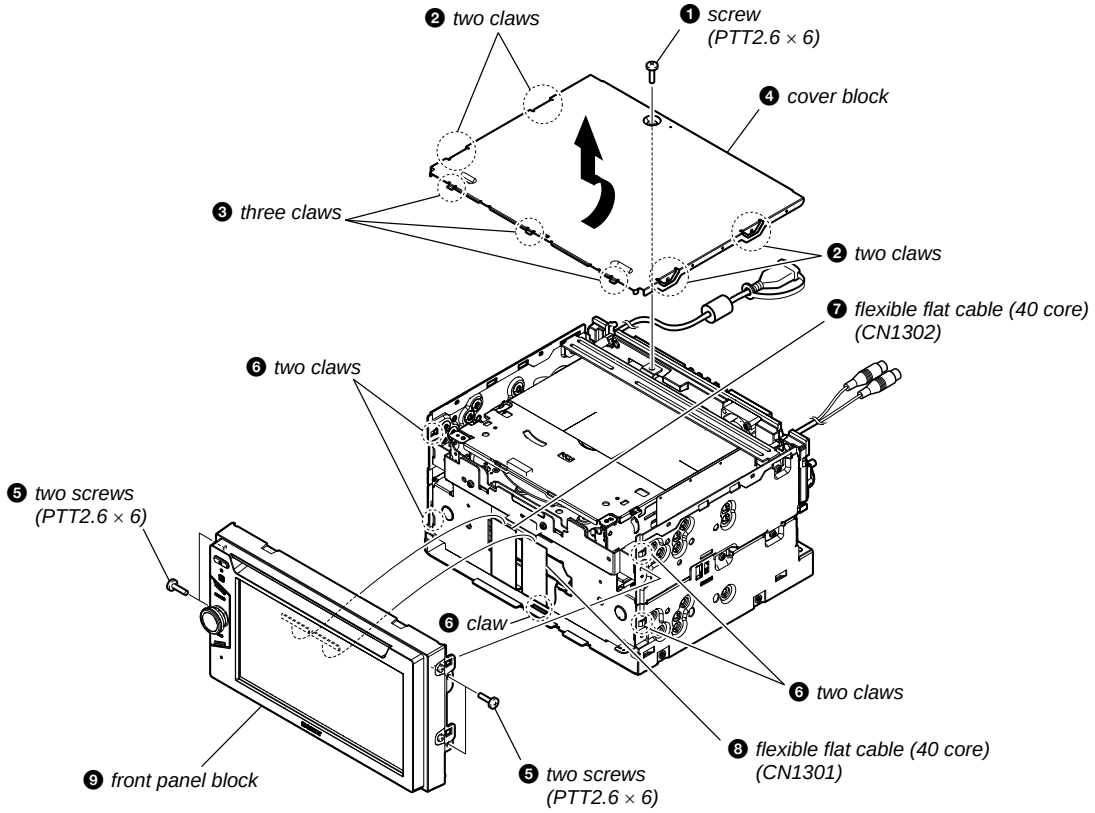
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

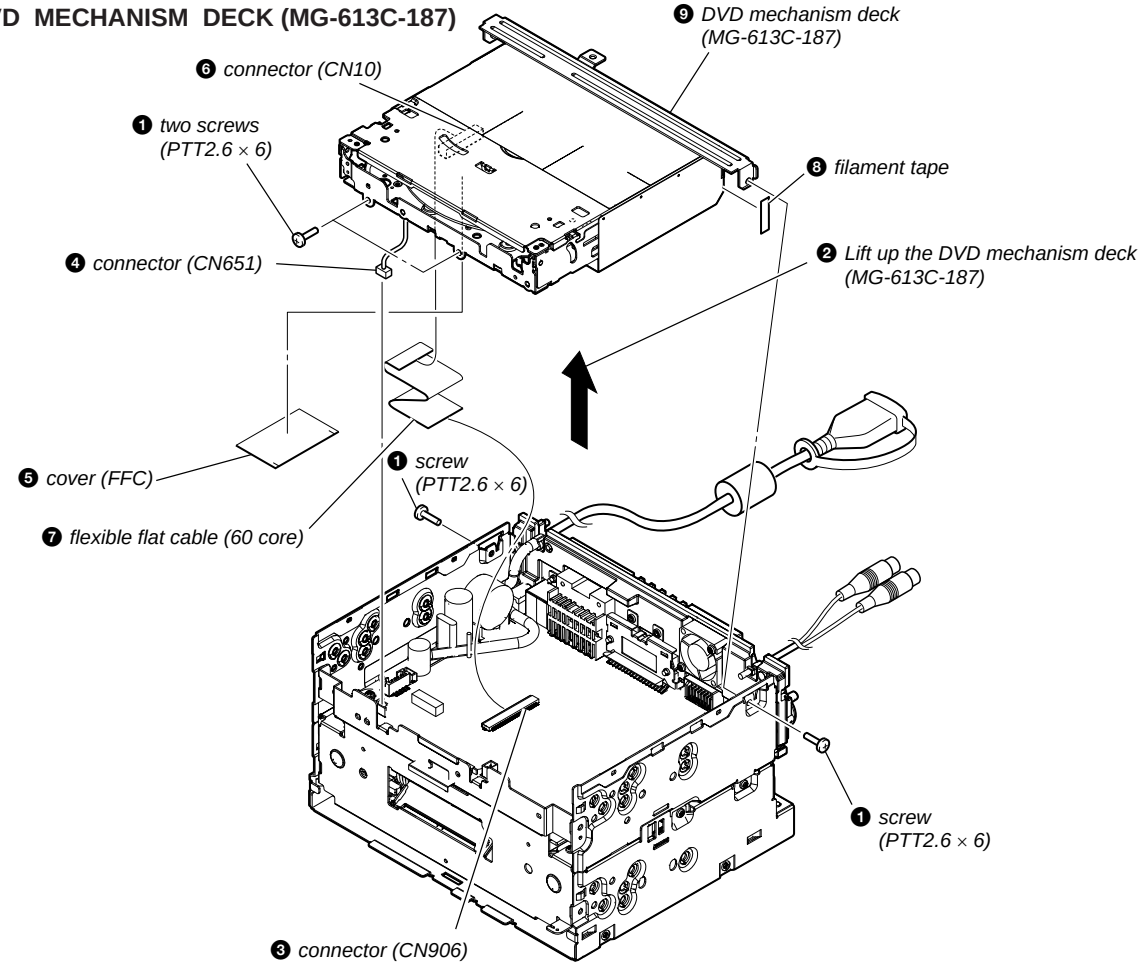


Note: Follow the disassembly procedure in the numerical order given.

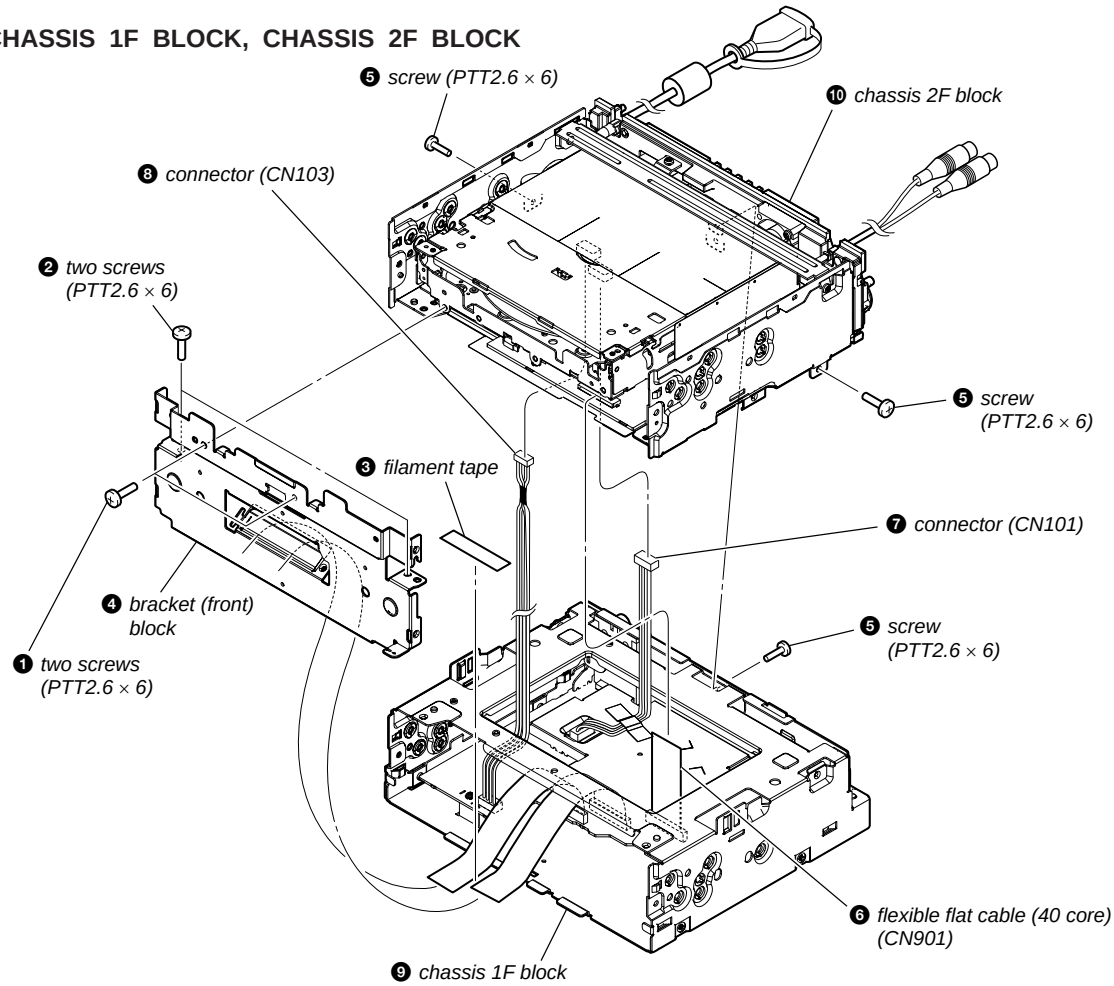
3-2. FRONT PANEL BLOCK



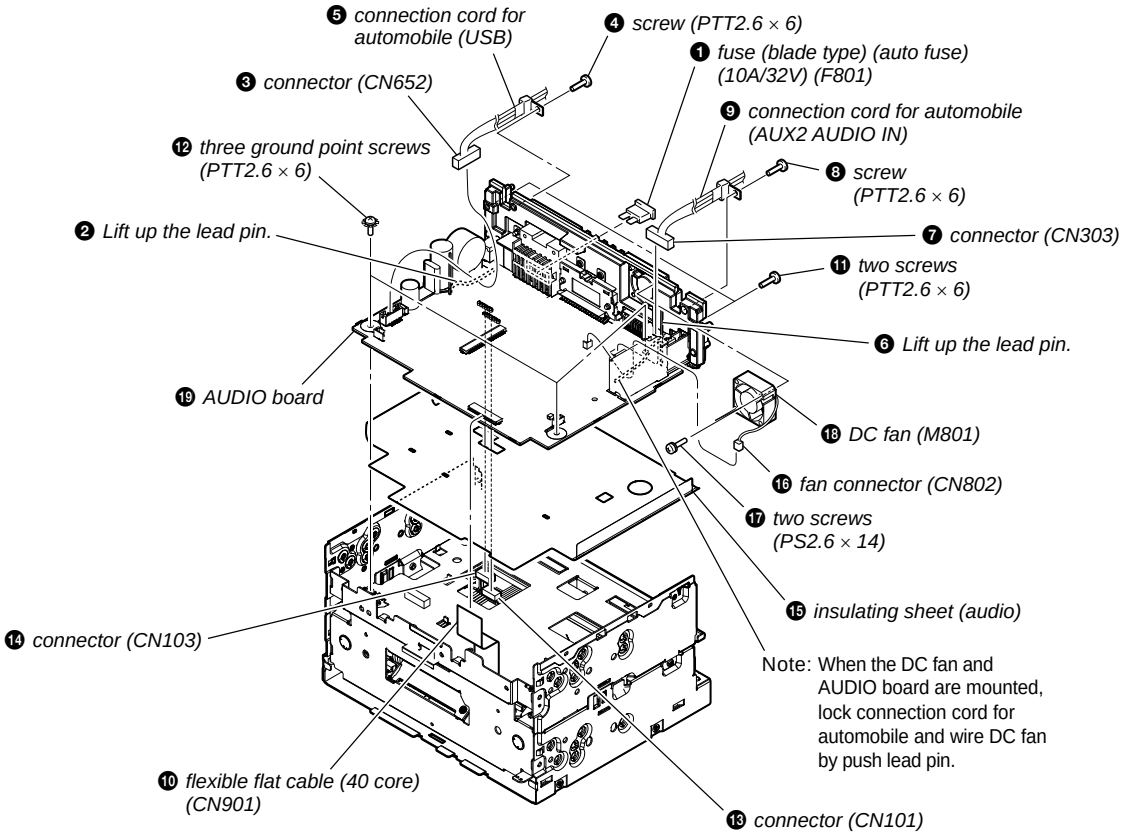
3-3. DVD MECHANISM DECK (MG-613C-187)



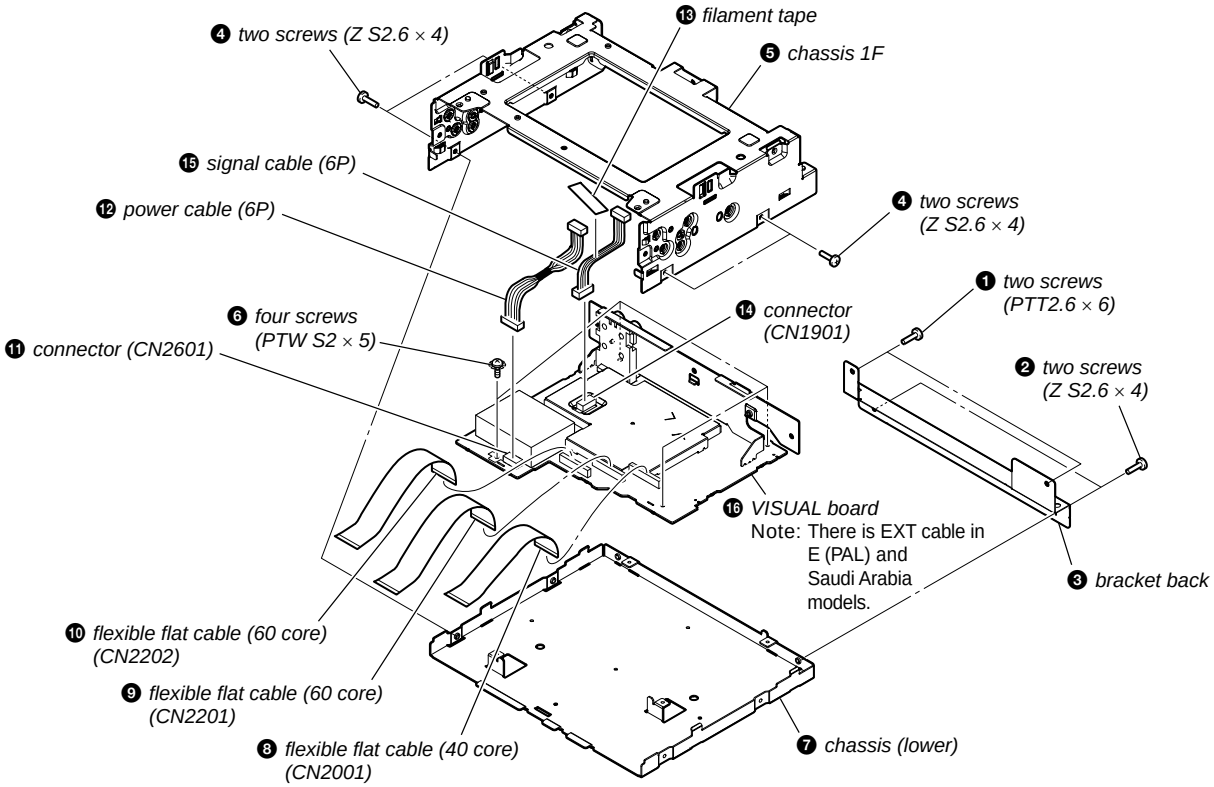
3-4. CHASSIS 1F BLOCK, CHASSIS 2F BLOCK



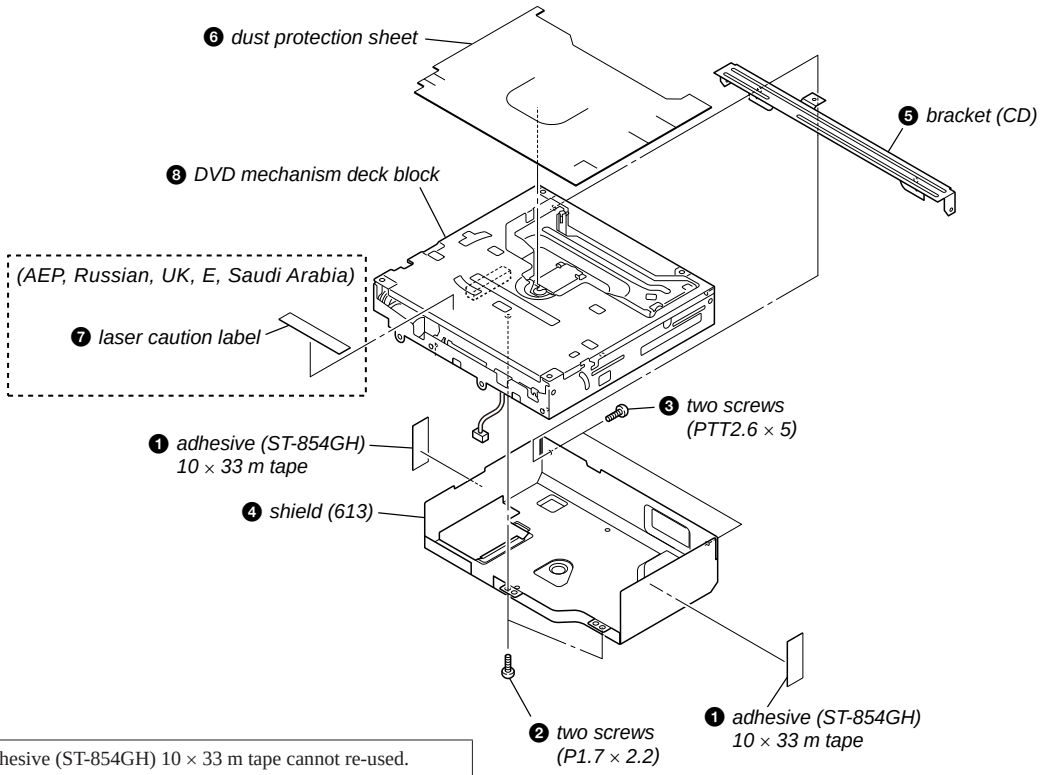
3-5. AUDIO BOARD



3-6. VISUAL BOARD

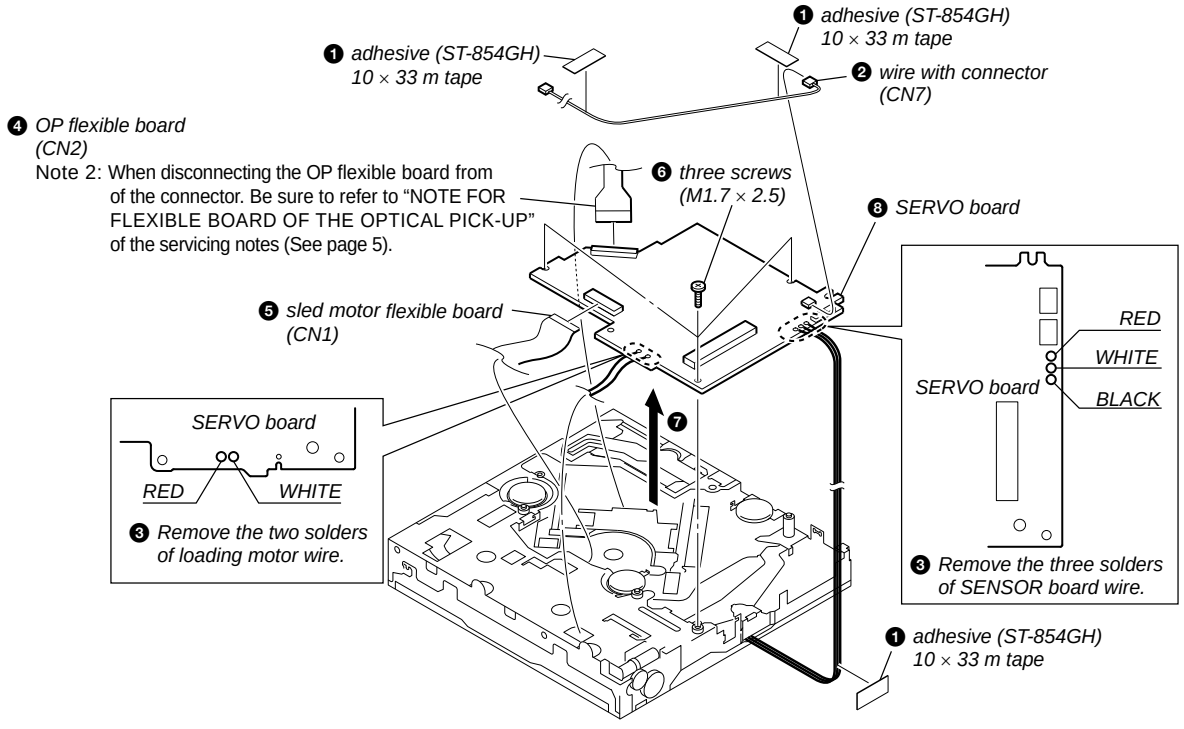


3-7. DVD MECHANISM DECK BLOCK



Note: Adhesive (ST-854GH) 10 × 33 m tape cannot re-used. Please replace to brand-new part ones adhesive (ST-854GH) 10 × 33 m tape is removed.

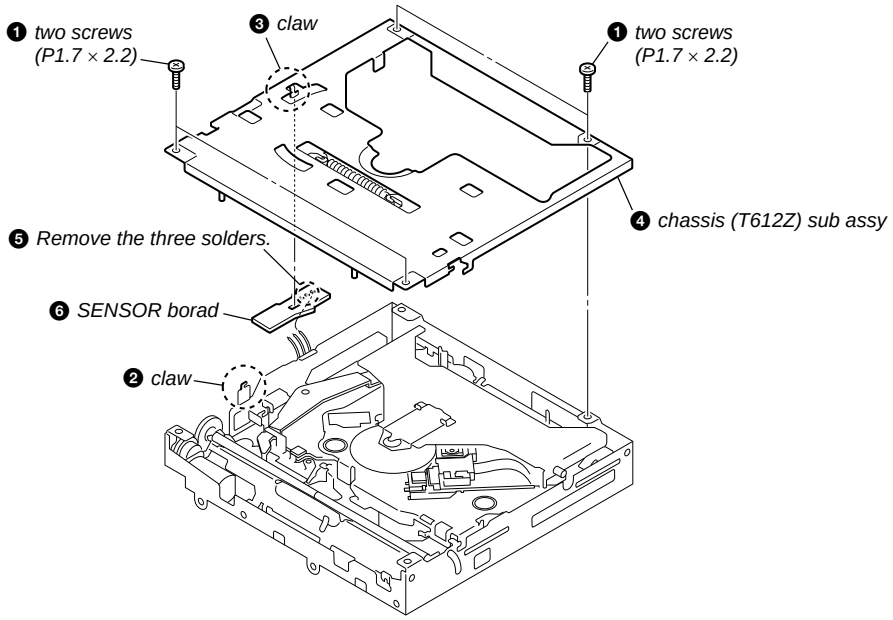
3-8. SERVO BOARD



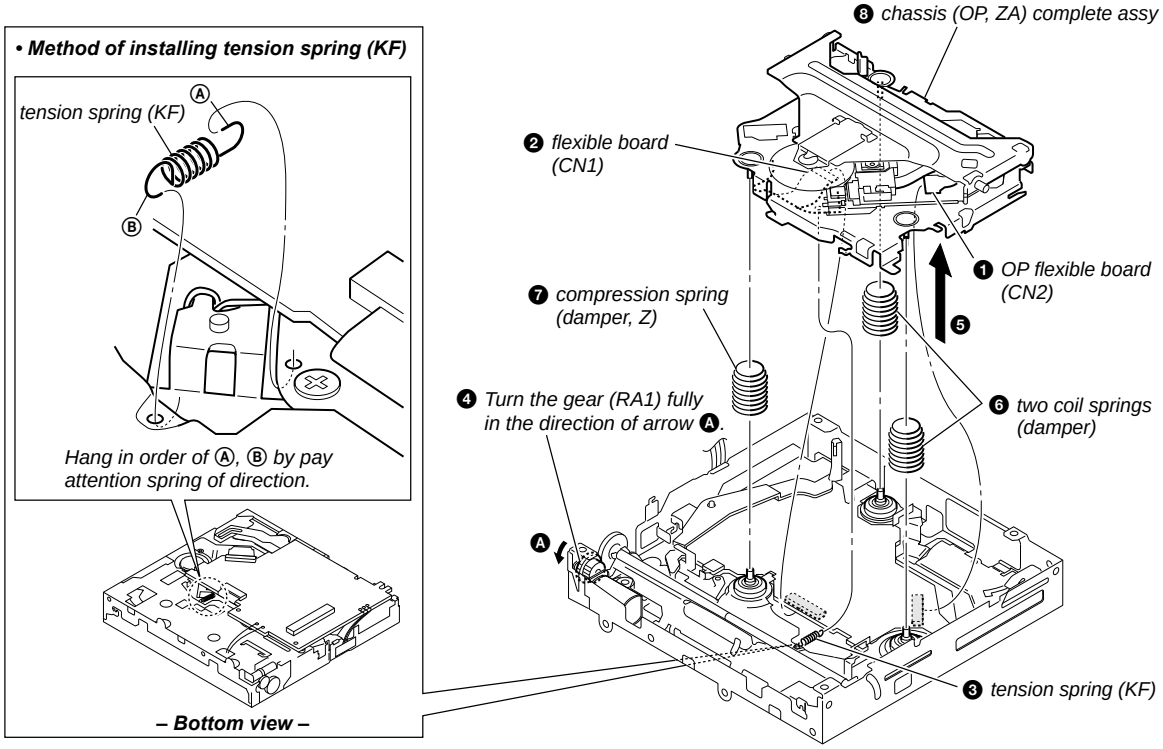
– DVD mechanism deck block (Bottom view) –

Note 1: Adhesive (ST-854GH) 10 × 33 m tape cannot re-used. Please replace to brand-new part ones adhesive (ST-854GH) 10 × 33 m tape is removed.

3-9. CHASSIS (T612Z) SUB ASSY, SENSOR BOARD



3-10. CHASSIS (OP, ZA) COMPLETE ASSY



SECTION 4
ELECTRICAL ADJUSTMENTS

MONITOR SECTION

If any of the following parts was replaced, execute the "V-COM Adjustment" and "Flicker Adjustment" as mentioned below.

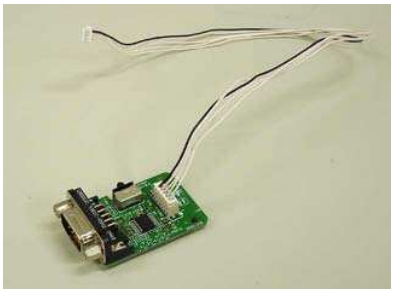
- Complete AUDIO board
- AUDIO board: IC504
- Complete VISUAL board
- VISUAL board: IC2001
- Liquid crystal display panel (LCD1401)
- Complete LCD board

1. SETTINGS

1-1. Tools and measuring devices for adjustment

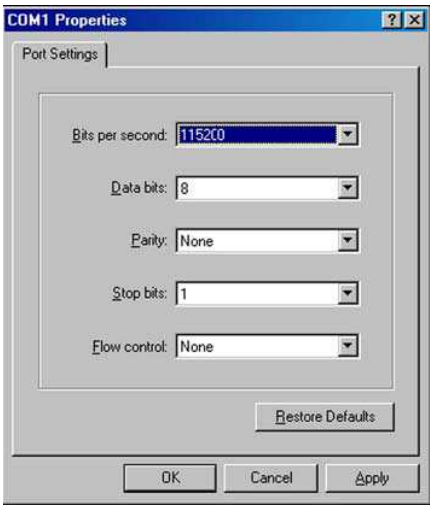
Tools and measuring devices	Item used
PC (The one with serial port. The USB-RS232C conversion is available.)	V-COM adjustment and Flicker adjustment
Communication software (Hyper Terminal etc.)	
Serial cable for RS232C (Cross cable)	
RS232C-JIG OVERALL ASSY (Part No. A-1777-380-A)	
Oscilloscope	V-COM adjustment

RS232C-JIG OVERALL ASSY



1-2. Serial port setting

Please setting it as follows.

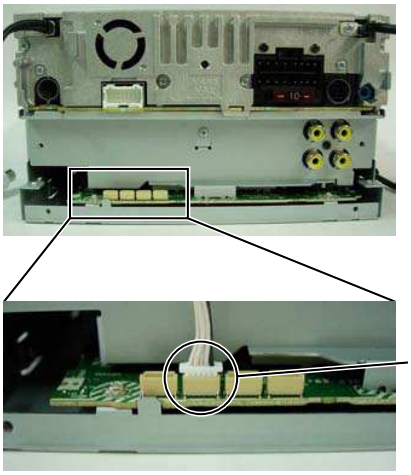


1-3. Connection with set

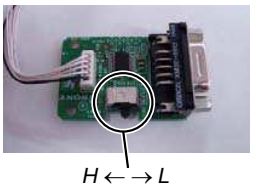
Procedure:

1. Four screws in the back of the set are removed, and the bracket back is detached.

2. The 5pin cable is connected with the second the connector from the left.



3. The switch of RS232C-JIG OVERALL ASSY is "L".



4. The communication software is start up.
5. Turn on the main power of set.
   The following log is displayed when starting while connected.

```
xxxxx Visual Ver[**** ] xxxxx
Techwell Mode
Data Read Format : 'r 005A'+ [Enter]
Data Write Format: 'w 01C4 03'+ [Enter]

DAC Mode
Data Read Format : 'dr0'+ [Enter]
Data Write Format: 'dw1 7D'+ [Enter]

Gerda WB Adjust (TestMode5 only)
Read Drive Value  : 'grd'+'r / g / b' [Enter]
Write Drive Value  : 'gwd'+'r / g / b'+'value(hex)' [Enter]
Read CutOff Value  : 'grc'+'r / g / b' [Enter]
Write CutOff Value : 'gwc'+'r / g / b'+'value(hex)' [Enter]

Flash Write
Save Data to Flash : 'ds'+ [Enter]
Clear Flash Data : 'dc'+ [Enter]
```

****: Version display

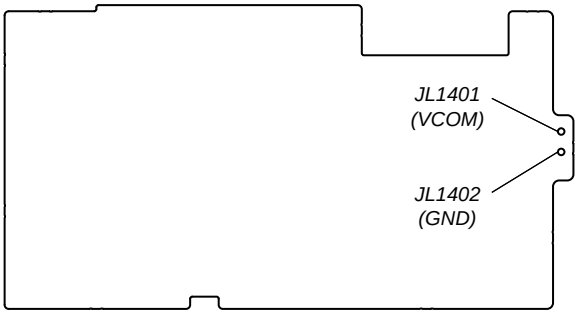
2. V-COM ADJUSTMENT

Procedure:

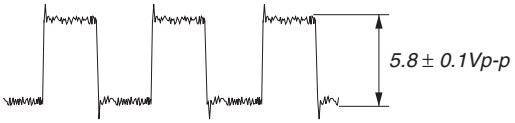
1. The setting of “1. SETTINGS” is completed.
2. Connect an oscilloscope to TP1401 (VCOM) and TP1402 (GND) on the LCD board.

Check Location:

– LCD Board (Side B) –



3. Adjust by using the communication software so that the waveform level of oscilloscope becomes 5.8 ± 0.1 V as follows.



4. “dr1” is input by the communication software and “Enter” key is pressed.
   The following numerical value returns from the set.
   “Read Channel1:0x**”
   **: Hexadecimal (“00” to “FF”)
5. To change the adjusted value, “dw1 ##” is input by the communication software and “Enter” key is pressed.
   The following numerical value returns from the set.
   “Write Channel1:0x##”
   ##: Hexadecimal (“00” to “FF”)
   When waveform level is smaller than 5.8 V, the numerical value of “##” is increase.
   When waveform level is larger than 5.8 V, the numerical value of “##” is decrease.
6. “ds” is input by the communication software and “Enter” key is pressed and the numerical value is saved.
7. The “Reset” button is pressed and turn the power off.

Example:

When the returning numerical value “8a” and the waveform level is 5.6 V.

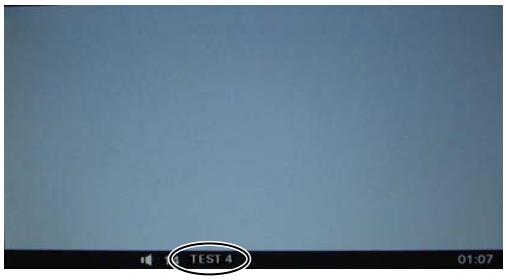
The numerical value is increased, and adjusted for a waveform level to become 5.8 ± 0.1 V with “8b→8c→8d→8e→8f→90→91...”.

dr1	←Reading of default value.
Read Channel1:0x8a	←Default value.
dw1 8b	←The numerical value is in-
Write Channel1:0x8b	creased and confirm.
dw1 8c	
Write Channel1:0x8c	
dw1 8d	
Write Channel1:0x8d	←Enters the range of
ds	←The numerical value is saved.

3. FLICKER ADJUSTMENT

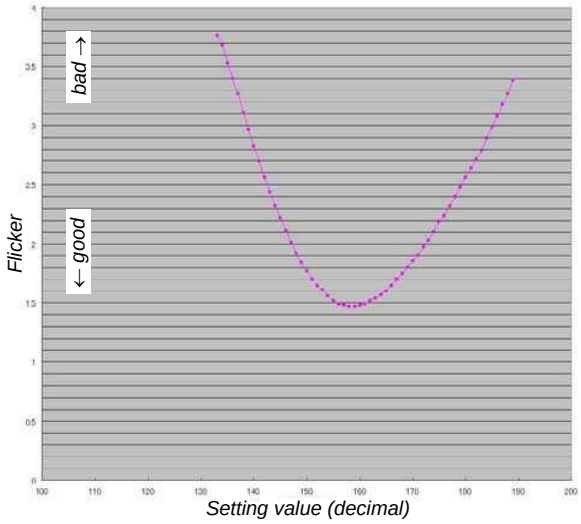
Procedure:

1. The setting of “1. SETTINGS” is completed.
2. Input the PAL white 40% raster signal from AUX2 VIDEO IN jack on the VISUAL board.
3. In the state of source off, press the [4] → [5] → [4] (keeps pressing) button on the remote commander.
   The test mode 4 starts, and the following screen is displayed on the monitor.



4. “dr0” is input by the communication software and “Enter” key is pressed.
   The following numerical value returns from the set.
   “Read Channel0:0x**”
   **: Hexadecimal (“00” to “FF”)
5. To change the adjusted value, “dw0 ##” is input by the communication software and “Enter” key is pressed.
   The following numerical value returns from the set.
   “Write Channel0:0x##”
   ##: Hexadecimal (“00” to “FF”)
   Adjust so that the flicker becomes minimum in the sight.
6. “ds” is input by the communication software and “Enter” key is pressed and the numerical value is saved.
7. The “Reset” button is pressed and turn the power off.

Example of characteristic:



SERVO SECTION

If any of the following parts was replaced, perform the “IOP Check” as mentioned below.

- Optical pick-up block (chassis (OP, ZA) complete assy)
- Complete SERVO board

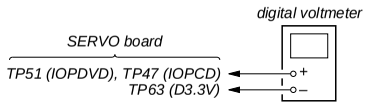
Precaution

Use the following tools and measuring devices.

- DVD test disc TDV-540C (Part No. J-2501-235-A)
- CD test disc PATD-012 (Part No. 4-225-203-01)
- Digital voltmeter
- Accessory remote commander RM-X170

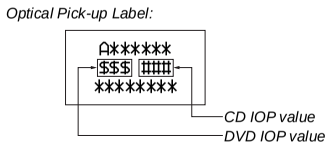
IOP CHECK

Connection:



Procedure:

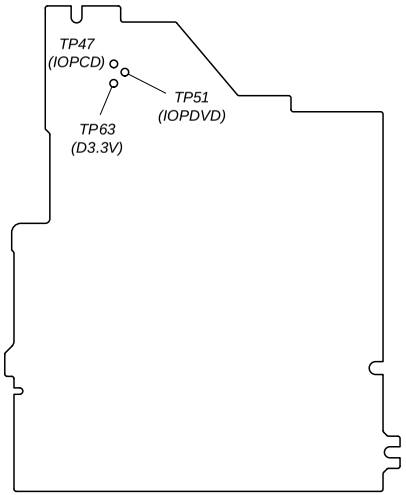
1. Check the IOP value of DVD and CD by label on the optical pick-up.



2. Connect a digital voltmeter to TP51 (IOPDVD) and TP63 (D3.3V) on the SERVO board.
3. Playback the DVD test disc (TDV-540C), and make a note of the value of digital voltmeter.
4. Divide the measured voltage value by 1, and convert it into current value.
5. Check that the calculated value is within ±6 mA to the IOP value given on the label.
6. Connect a digital voltmeter to TP47 (IOPCD) and TP63 (D3.3V) on the SERVO board.
7. Playback the CD test disc (PATD-012), and make a note of the value of digital voltmeter.
8. Divide the measured voltage value by 1, and convert it into current value.
9. Check that the calculated value is within ±6 mA to the IOP value given on the label.

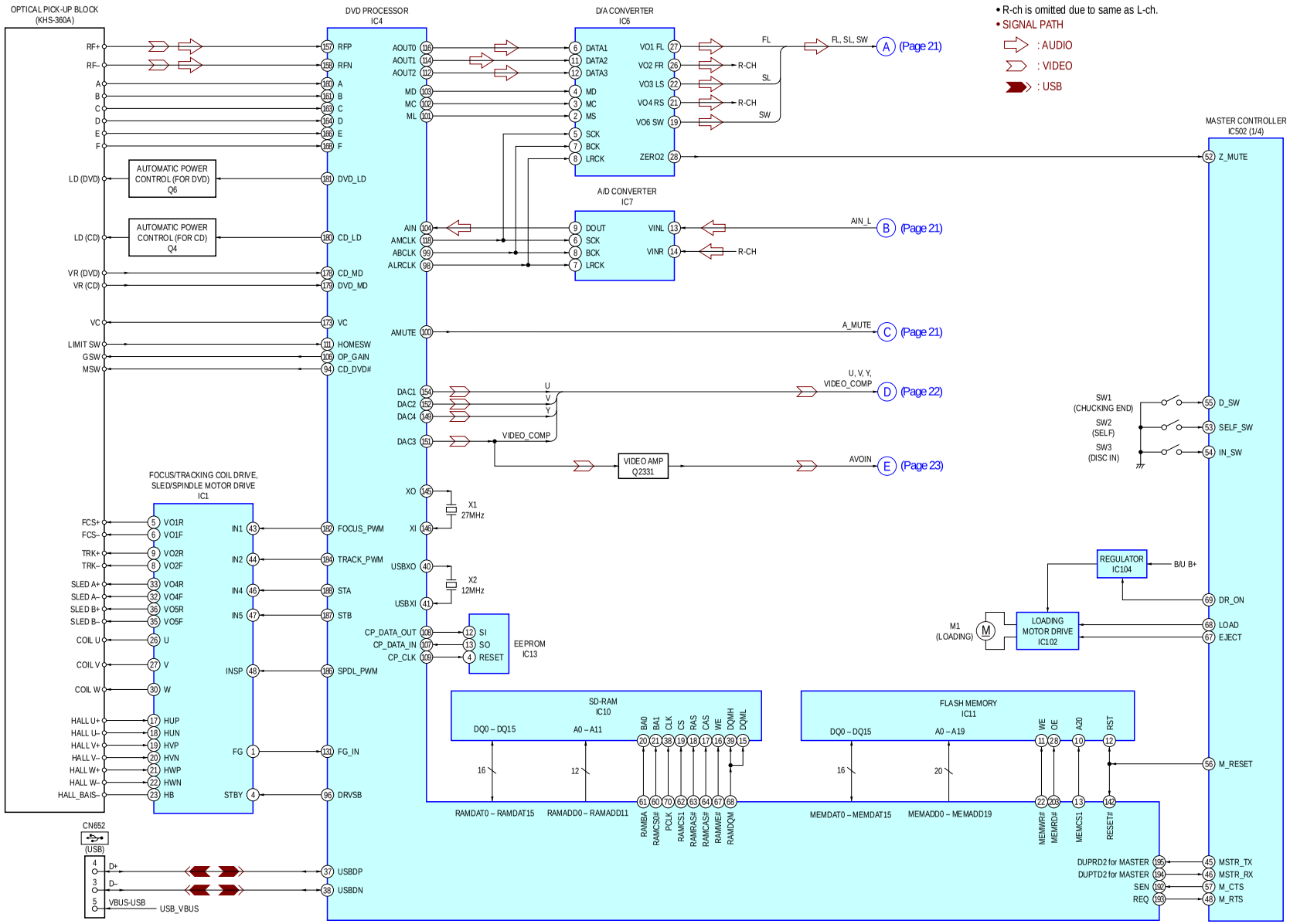
Check Location:

– SERVO Board (Side B) –

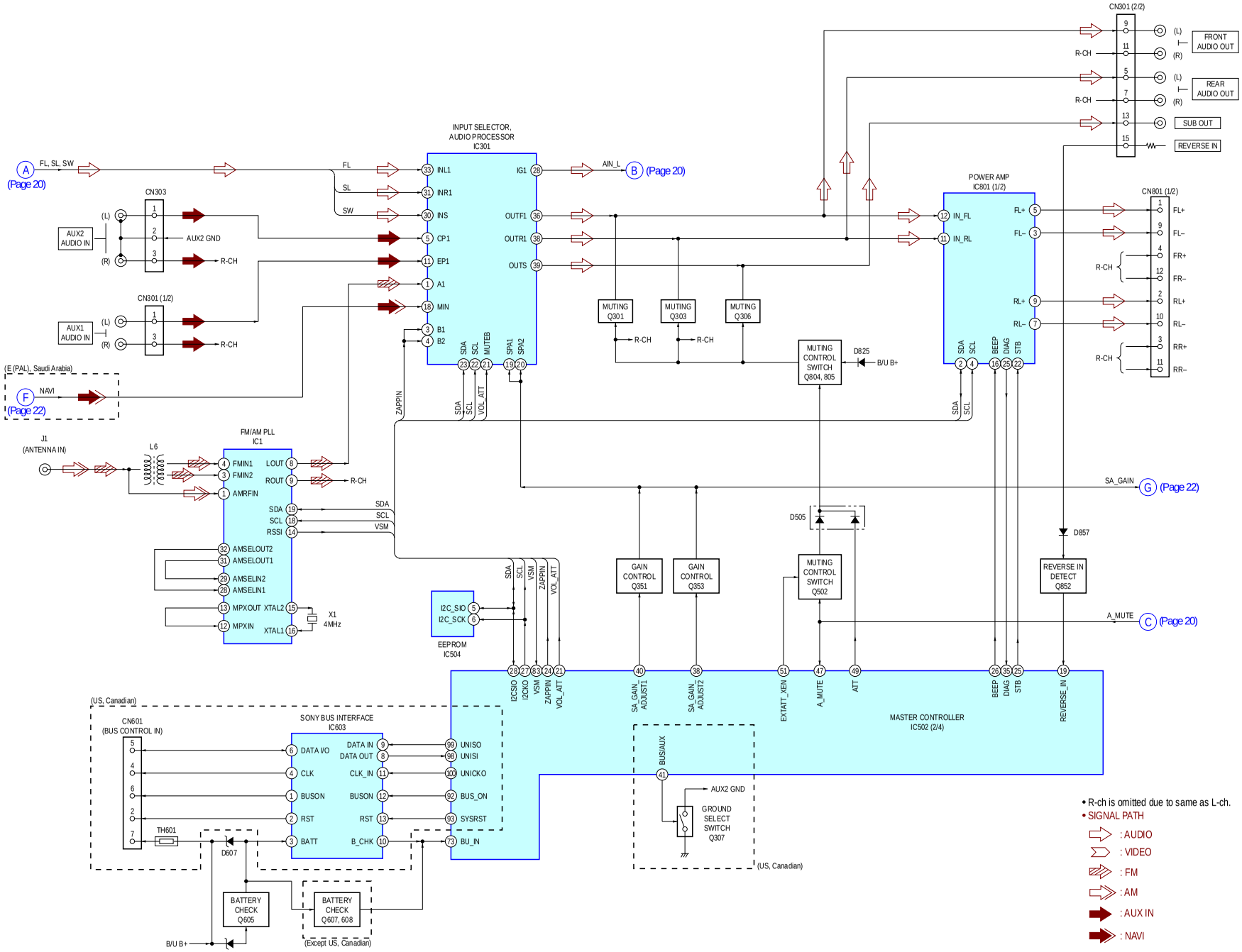


SECTION 5
DIAGRAMS

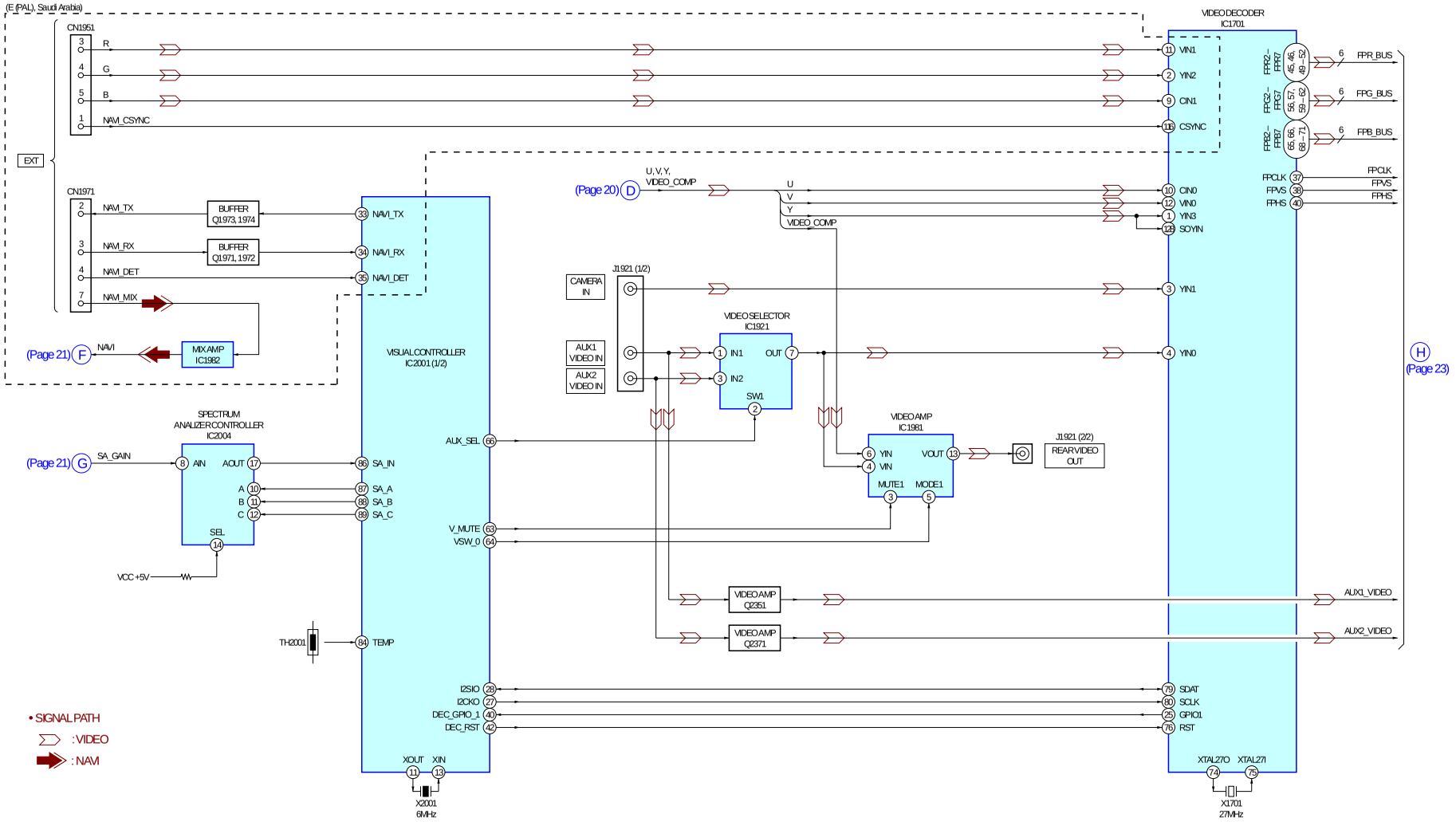
5-1. BLOCK DIAGRAM - SERVO Section -



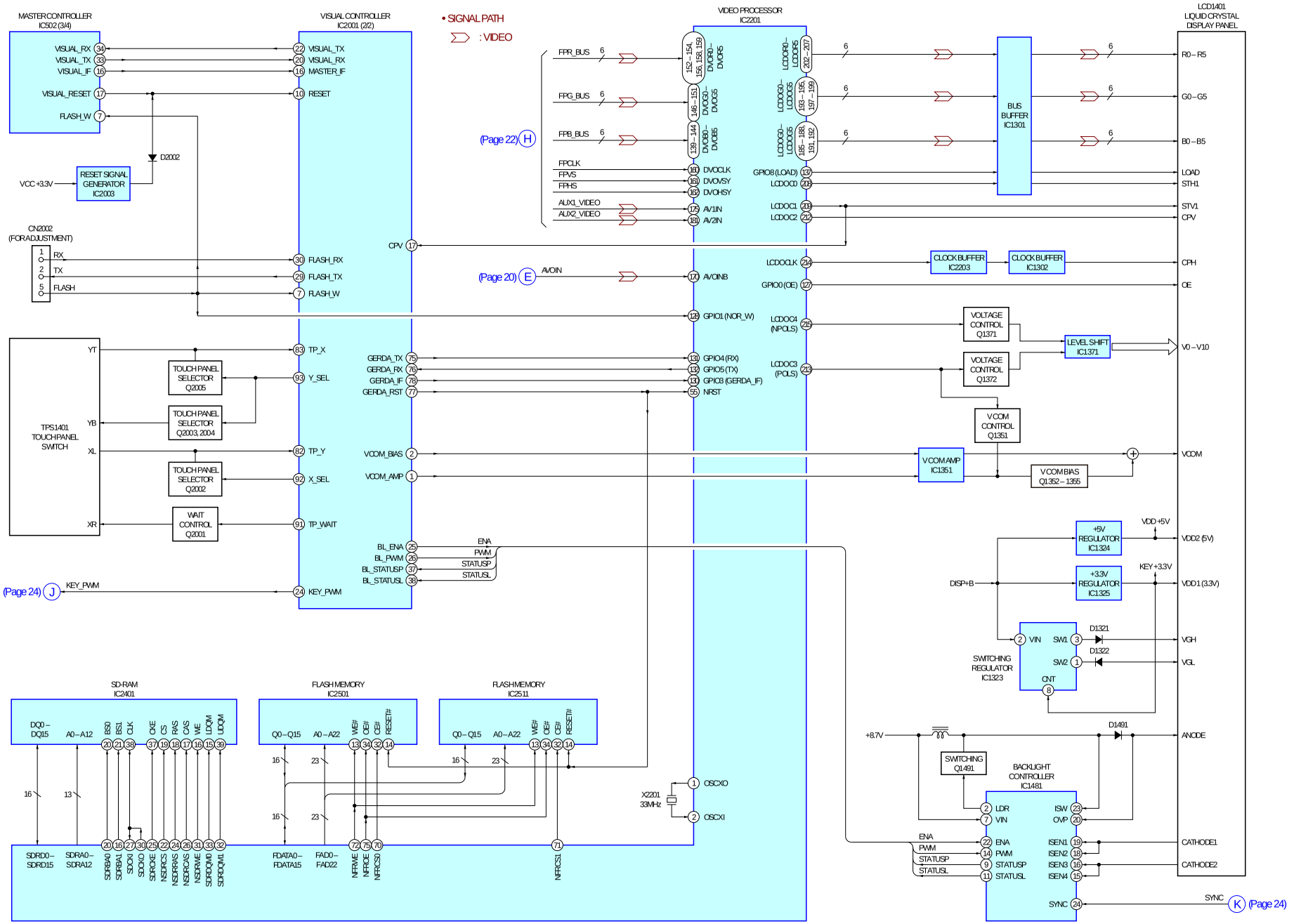
5-2. BLOCK DIAGRAM - AUDIO Section -



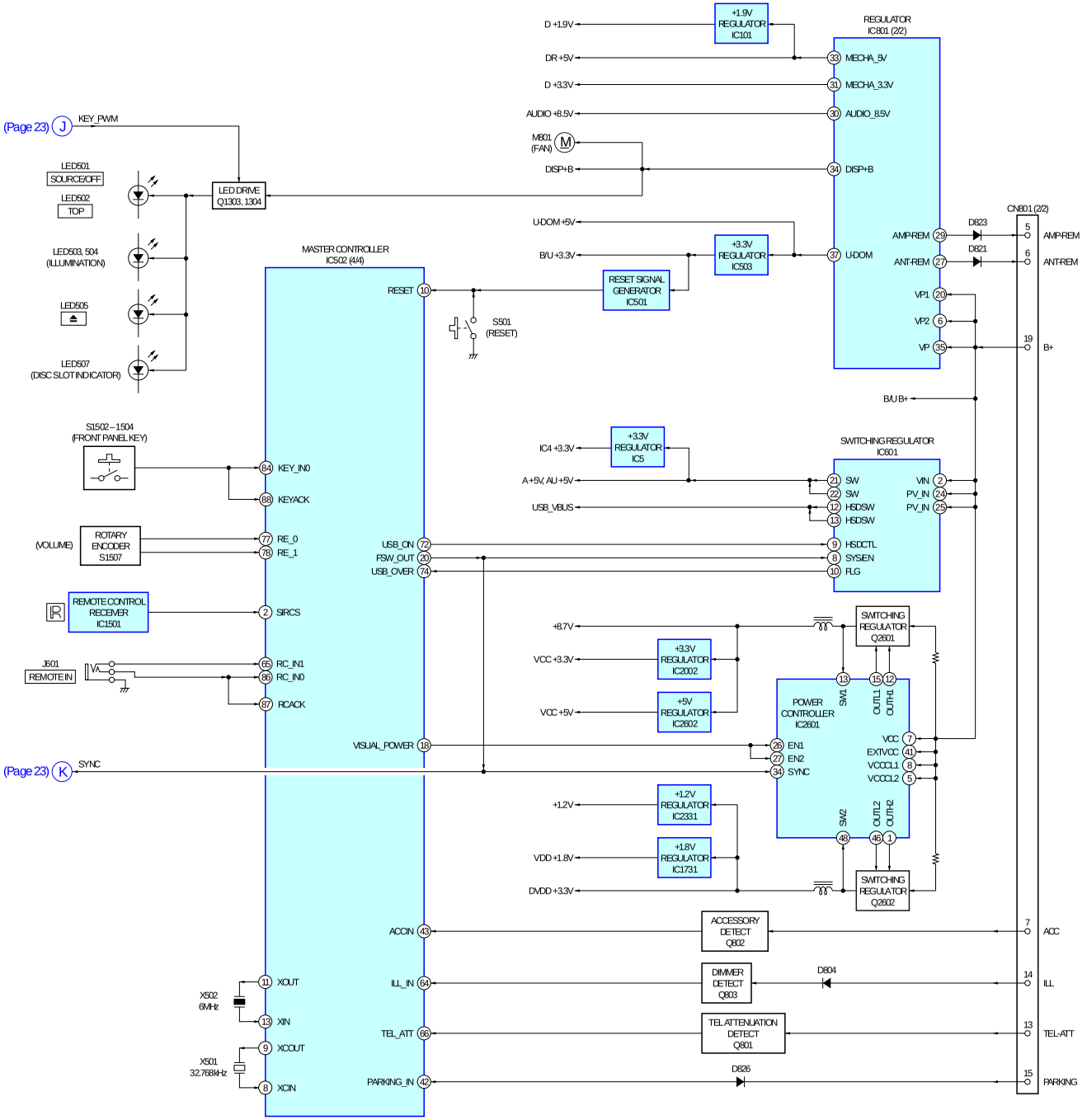
5-3. BLOCK DIAGRAM - VIDEO Section -



5-4. BLOCK DIAGRAM - DISPLAY Section -



5-5. BLOCK DIAGRAM - PANEL/POWER SUPPLY Section -



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

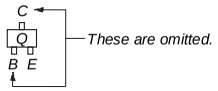
Note:

- ⟜: Parts extracted from the component side.
- ———: Parts extracted from the conductor side.
- : Indicates side identified with part number.
- △ : Internal component.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Caution:	
Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated.

- SERVO, VISUAL, KEY and LCD boards are multi-layer printed board.
  However, the patterns of intermediate-layer have not been included in this diagrams.
- Indication of transistor.



- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  RU : Russian model

For Schematic Diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- : Panel designation.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

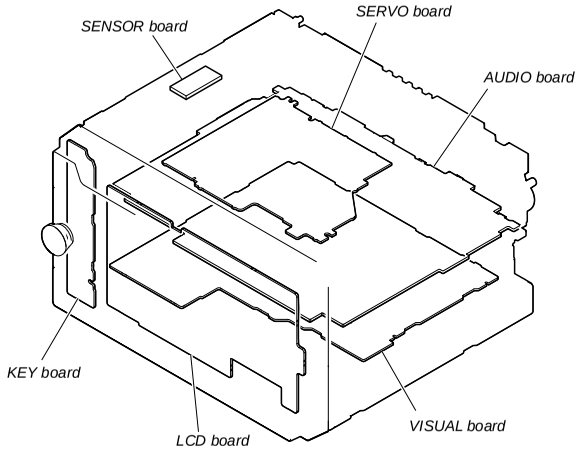
- : B+ Line.
- : B– Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

- SERVO board -
  no mark: DVD PLAY
  ∗ : Impossible to measure

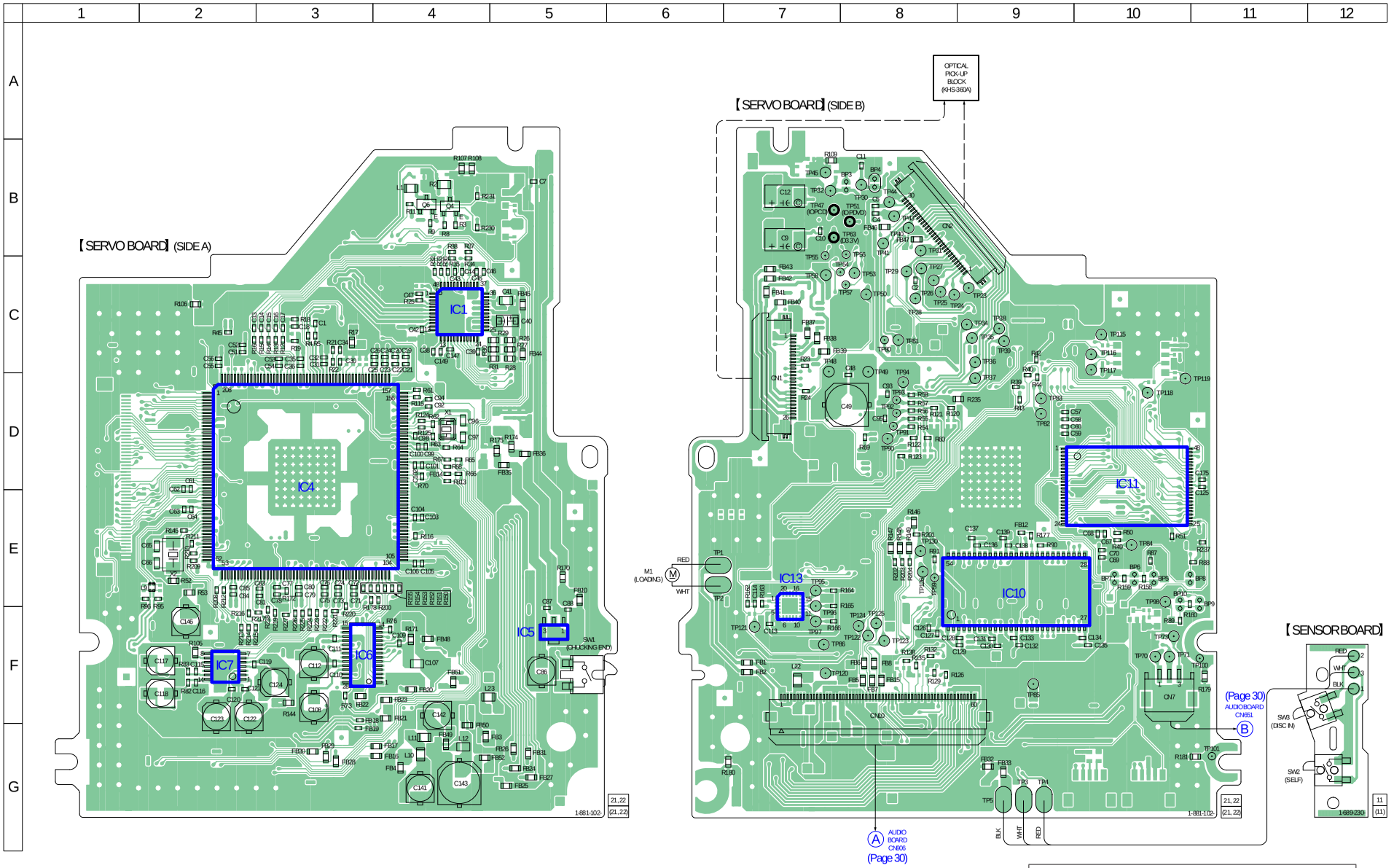
- Other board -
  no mark: TUNER (FM)
  [ ]: TUNER (AM)
  ( ): DVD PLAY
  ∗ : Impossible to measure

- Voltages are taken with VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : AUDIO
  : VIDEO
  : FM
  : AM
  : USB
  : AUX IN
  : NAVI
- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  RU : Russian model

- Circuit Boards Location



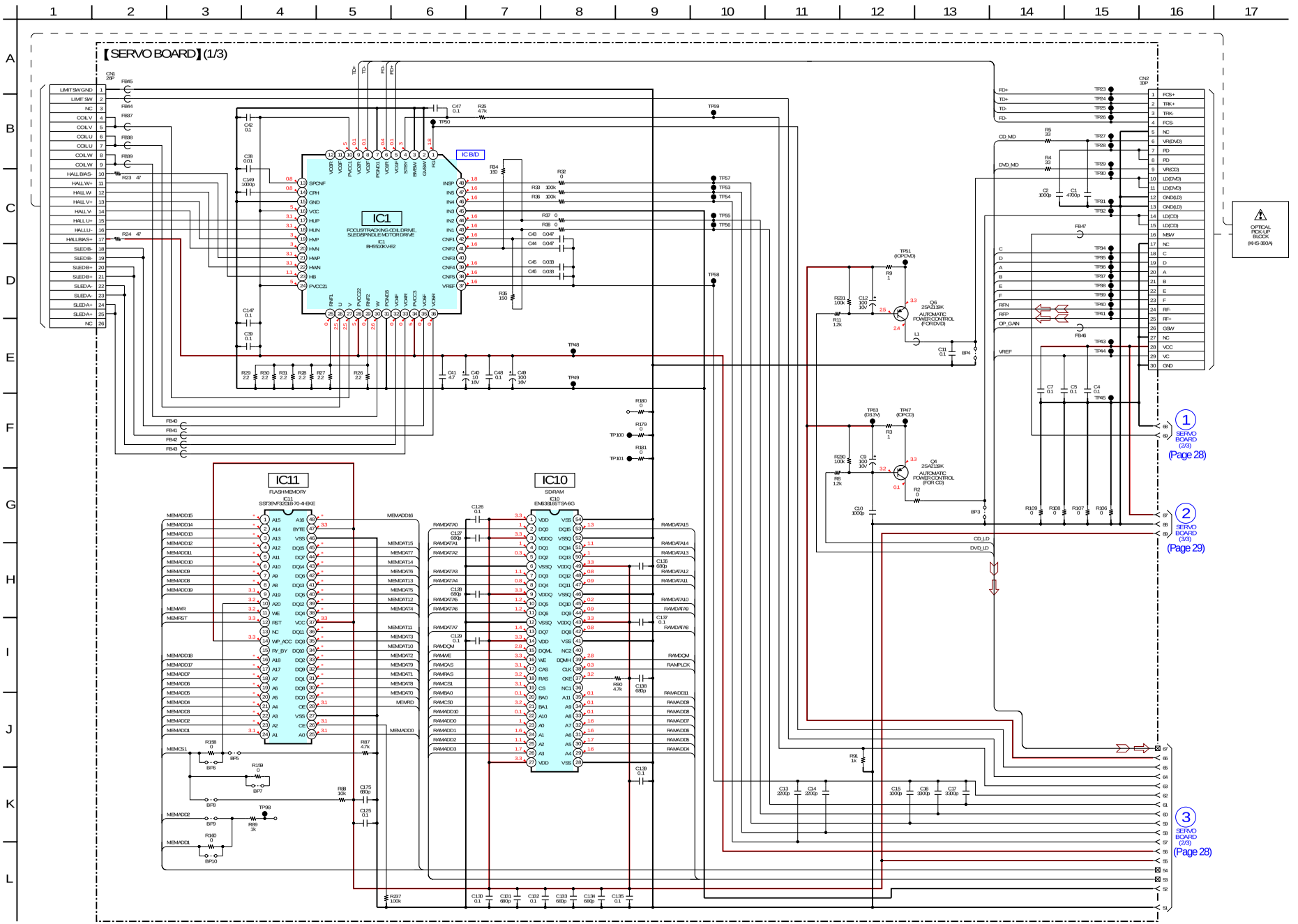
5-6. PRINTED WIRING BOARDS - SERVO Section - • See page 25 for Circuit Boards Location. • : Uses unleaded solder.



Note 1: IC4, IC11 and IC13 cannot exchange with single. When these parts are damaged, exchange the entire mounted board.

Note 2: FB30, R87 and R88 have been deleted in the midway of production.

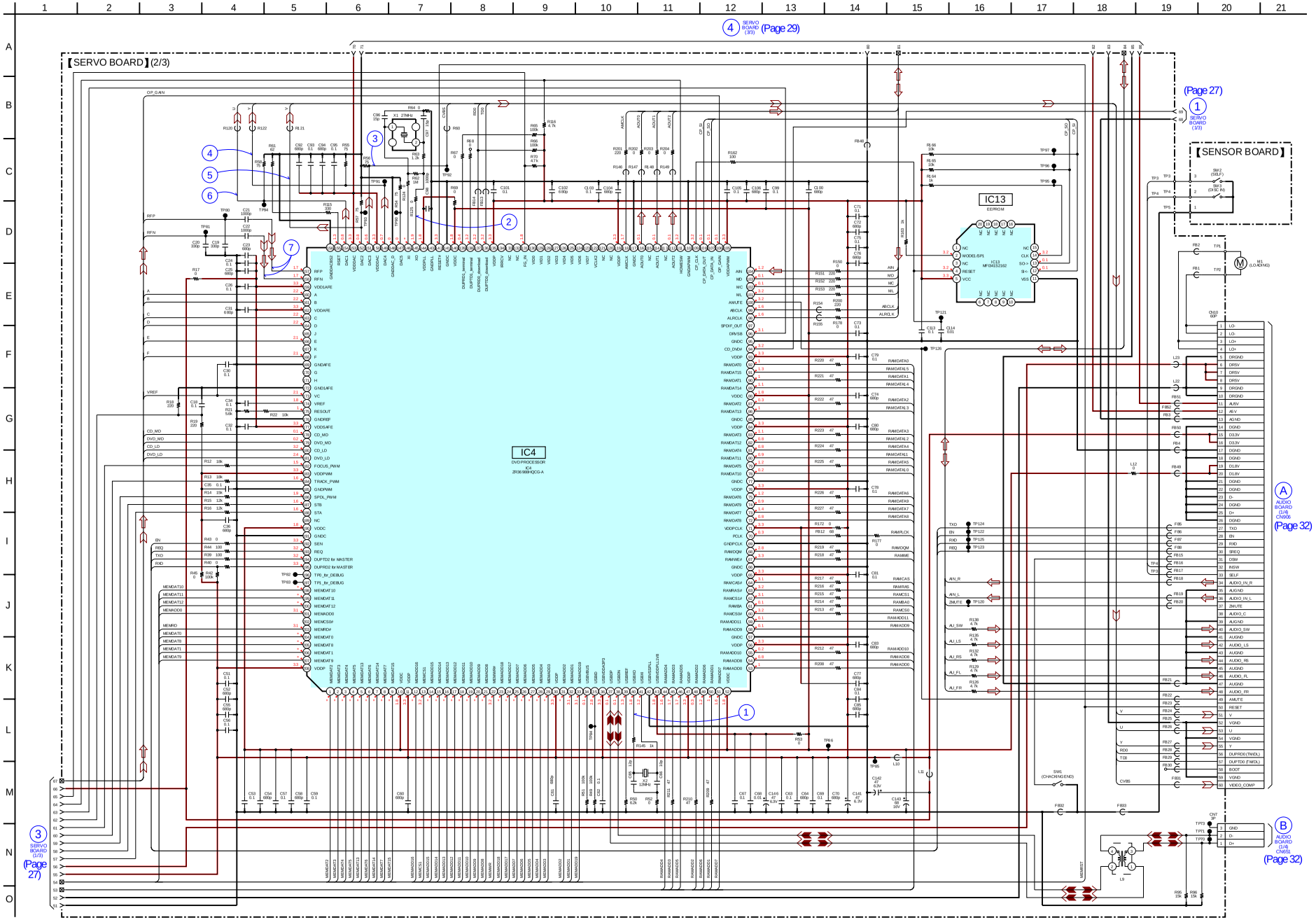
5-7. SCHEMATIC DIAGRAM - SERVO Section (1/3) - • See page 47 for IC Block Diagrams.



Note 1: IC11 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

Note 2: R87 and R88 have been deleted in the midway of production.

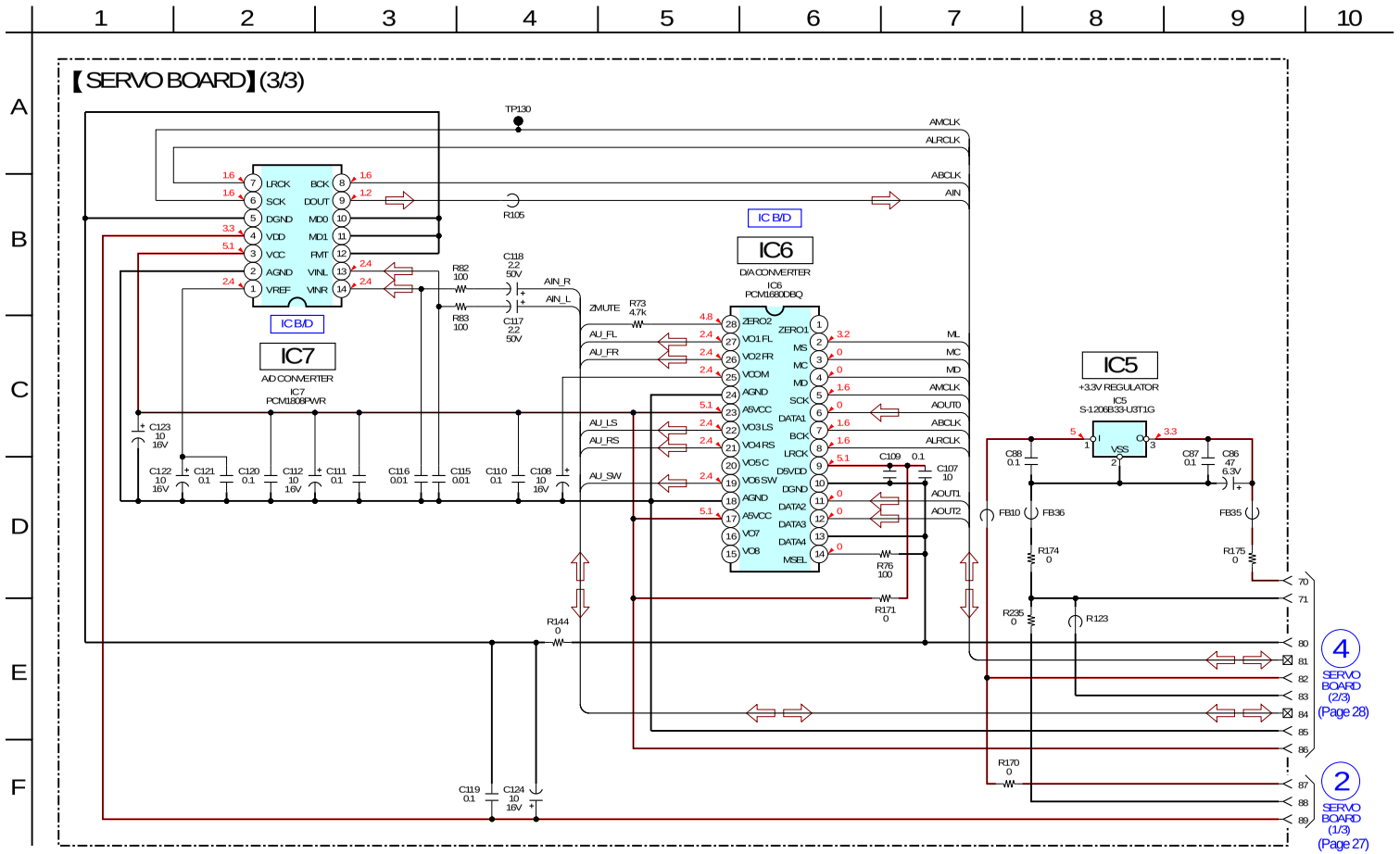
5-8. SCHEMATIC DIAGRAM - SERVO Section (2/3) - • See page 46 for Waveforms. • See page 57 for IC Pin Function Description.



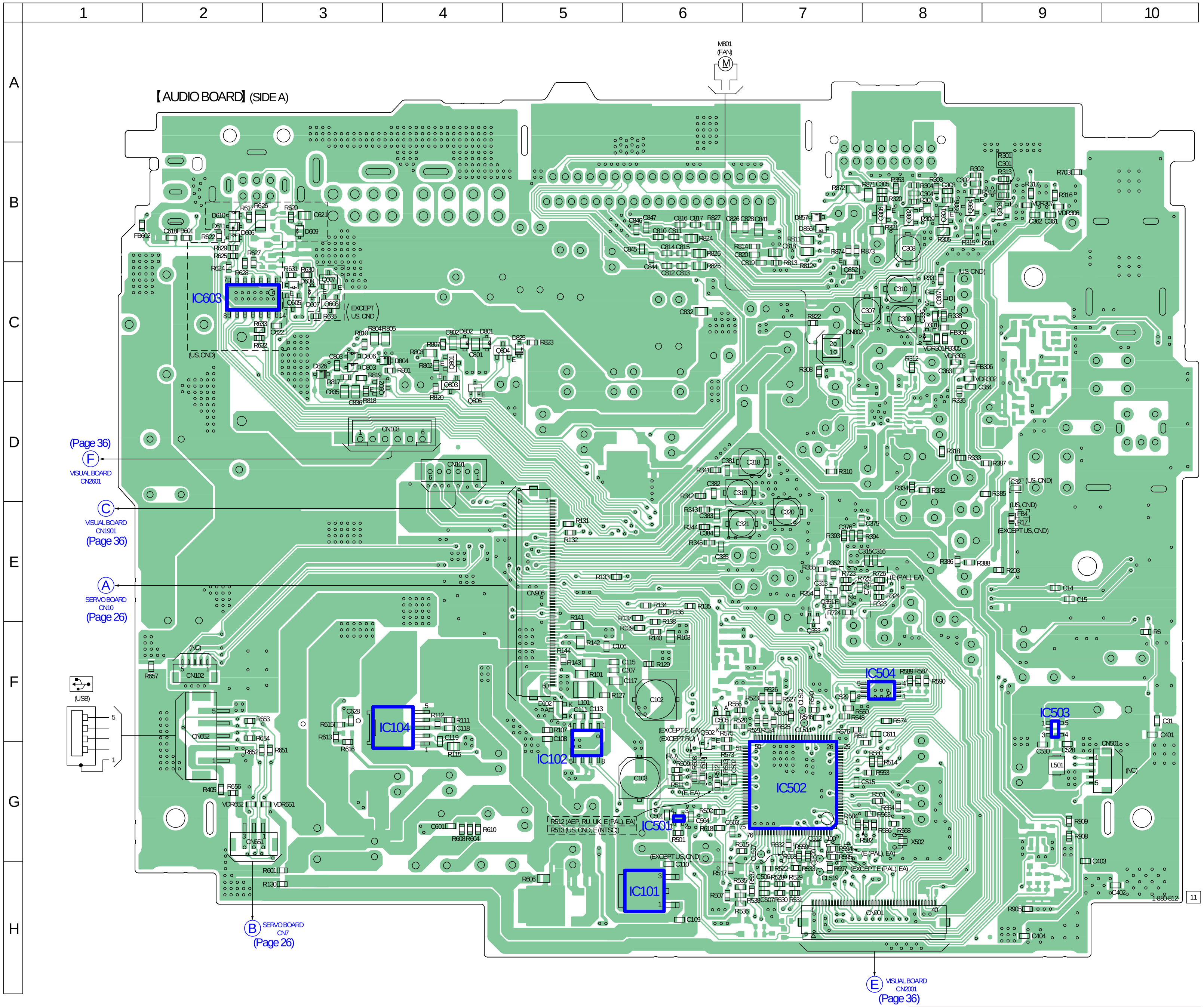
Note 1: IC4 and IC13 cannot exchange with single. When these parts are damaged, exchange the entire mounted board.

Note 2: FB30 has been deleted in the midway of production.

5-9. SCHEMATIC DIAGRAM - SERVO Section (3/3) - • See page 47 for IC Block Diagrams.

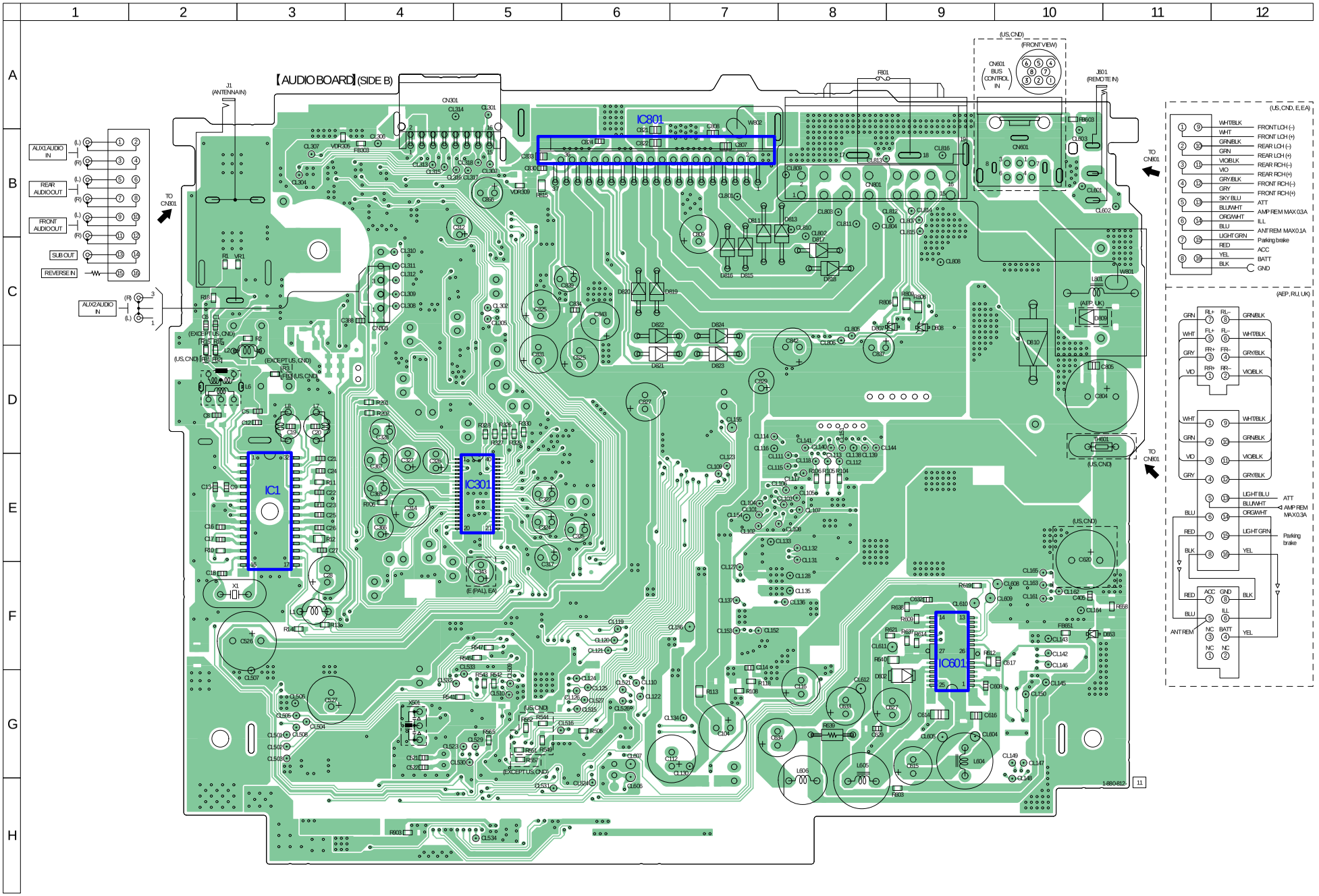


5-10. PRINTED WIRING BOARD - AUDIO Board (Side A) - • See page 25 for Circuit Boards Location. • : Uses unleaded solder.

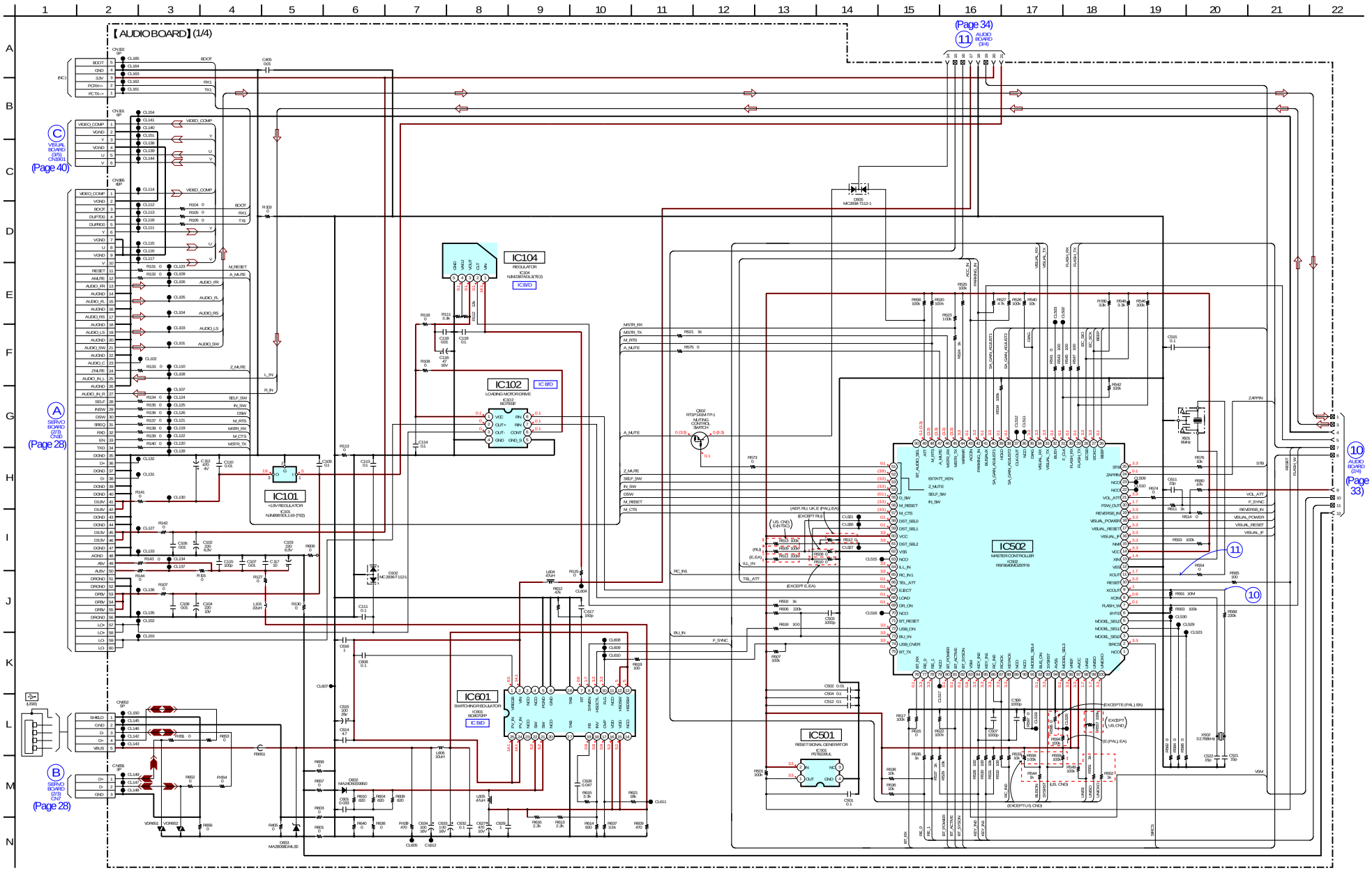


Note: CN102 has been deleted in the midway of production.

5-11. PRINTED WIRING BOARD - AUDIO Board (Side B) - • See page 25 for Circuit Boards Location. • : Uses unleaded solder.

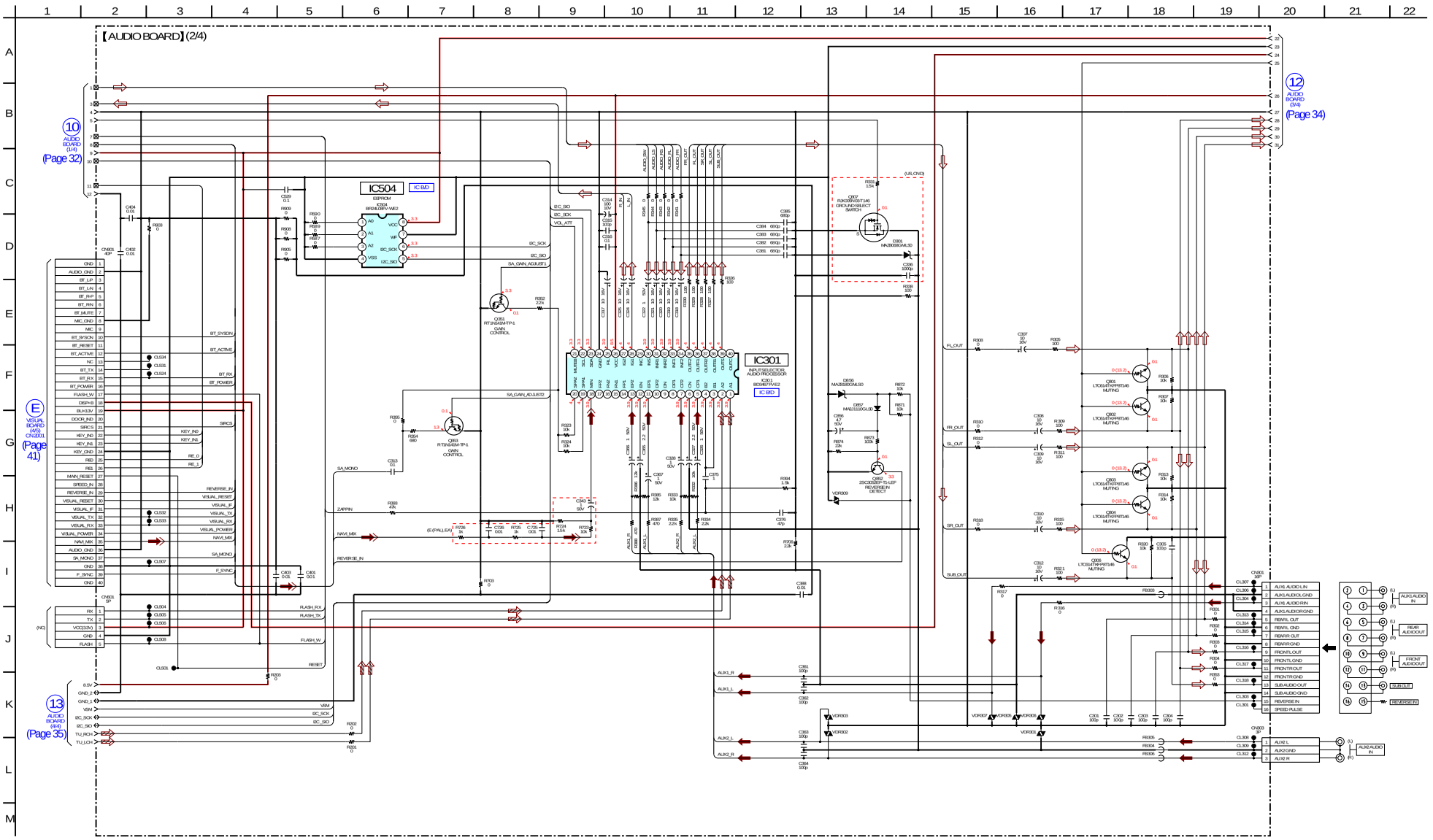


5-12. SCHEMATIC DIAGRAM - AUDIO Board (1/4) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams. • See page 57 for IC Pin Function Description.

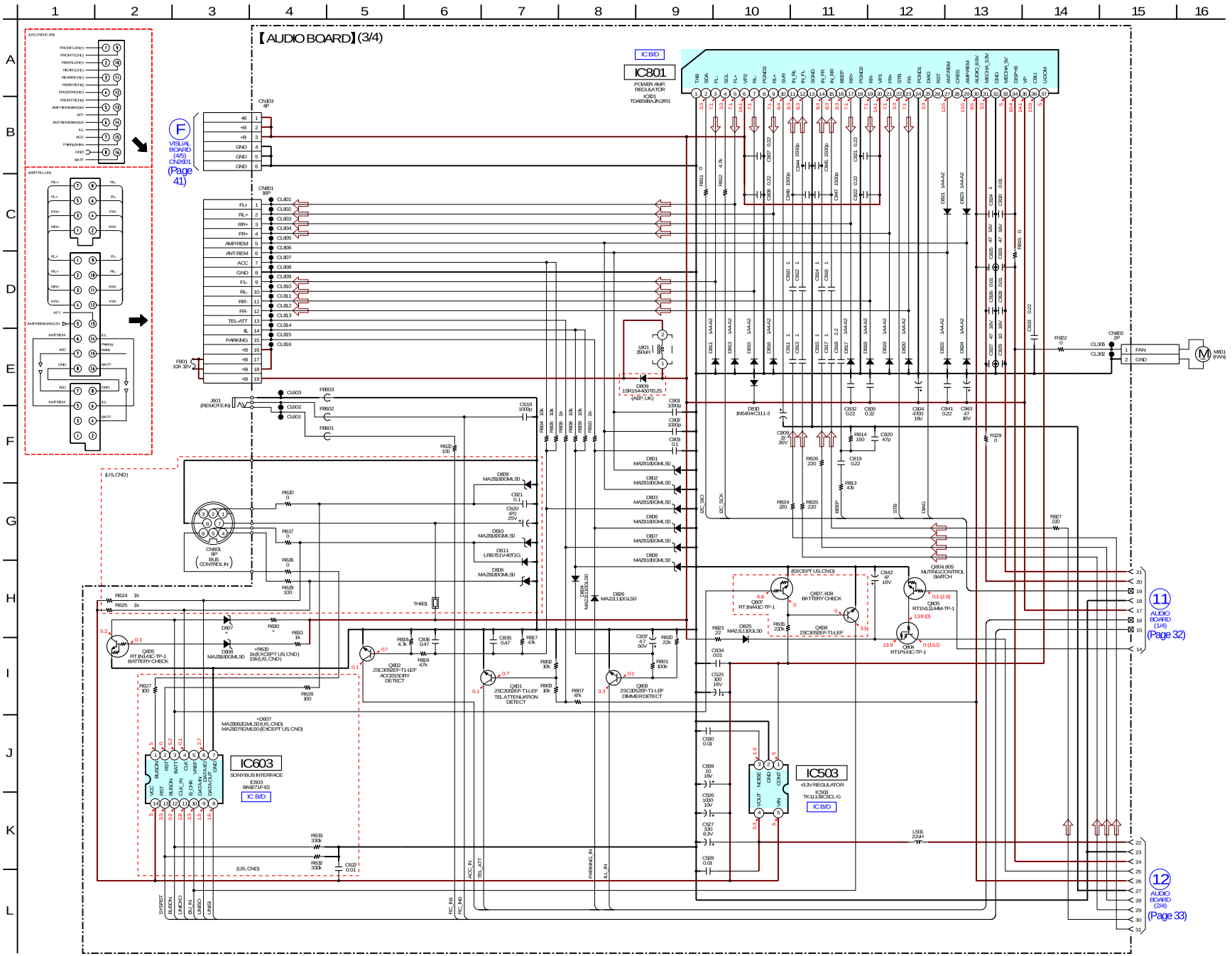


Note: CN102 has been deleted in the midway of production.

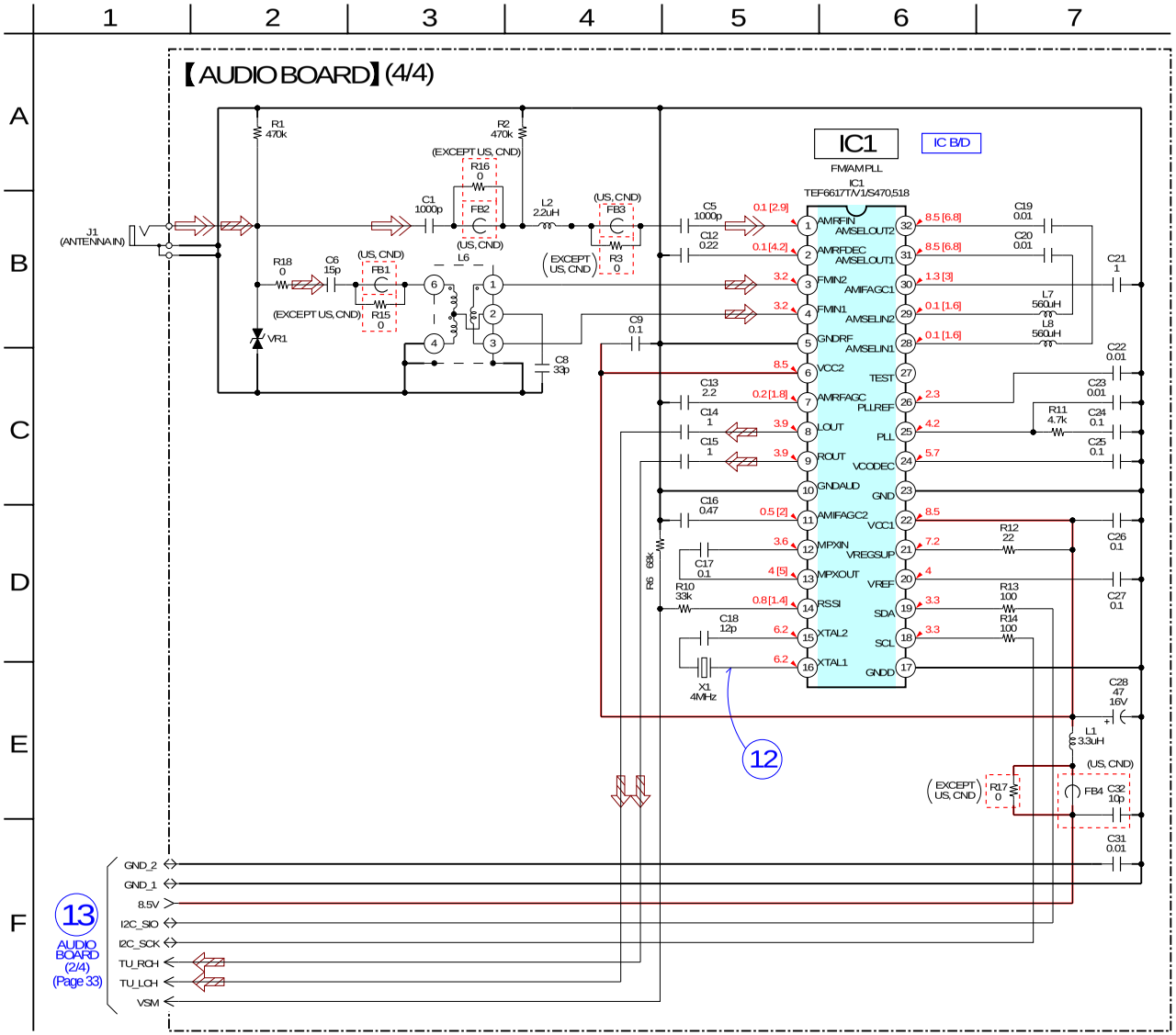
5-13. SCHEMATIC DIAGRAM - AUDIO Board (2/4) - • See page 47 for IC Block Diagrams.



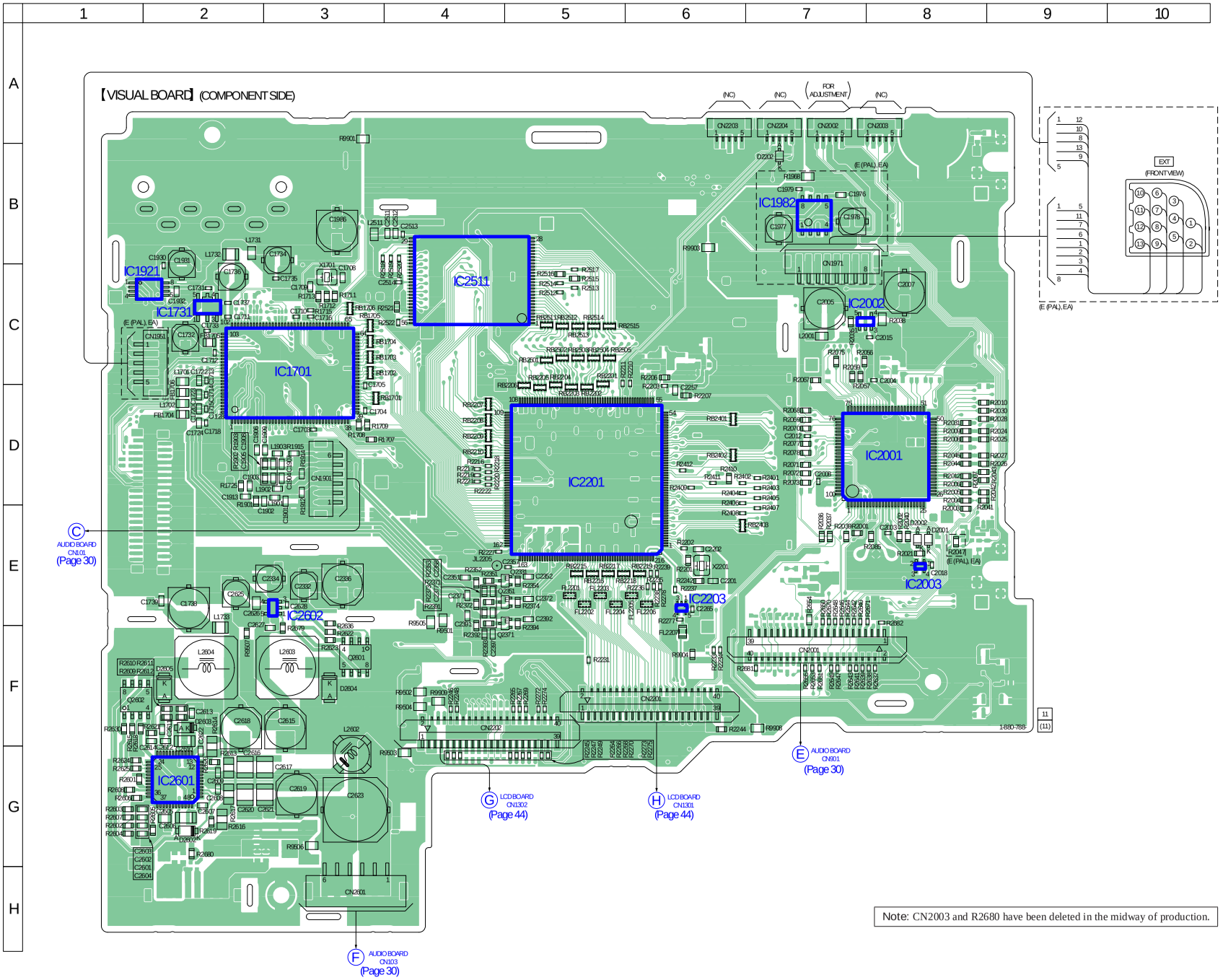
5-14. SCHEMATIC DIAGRAM - AUDIO Board (3/4) - • See page 47 for IC Block Diagrams.



5-15. SCHEMATIC DIAGRAM - AUDIO Board (4/4) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams.

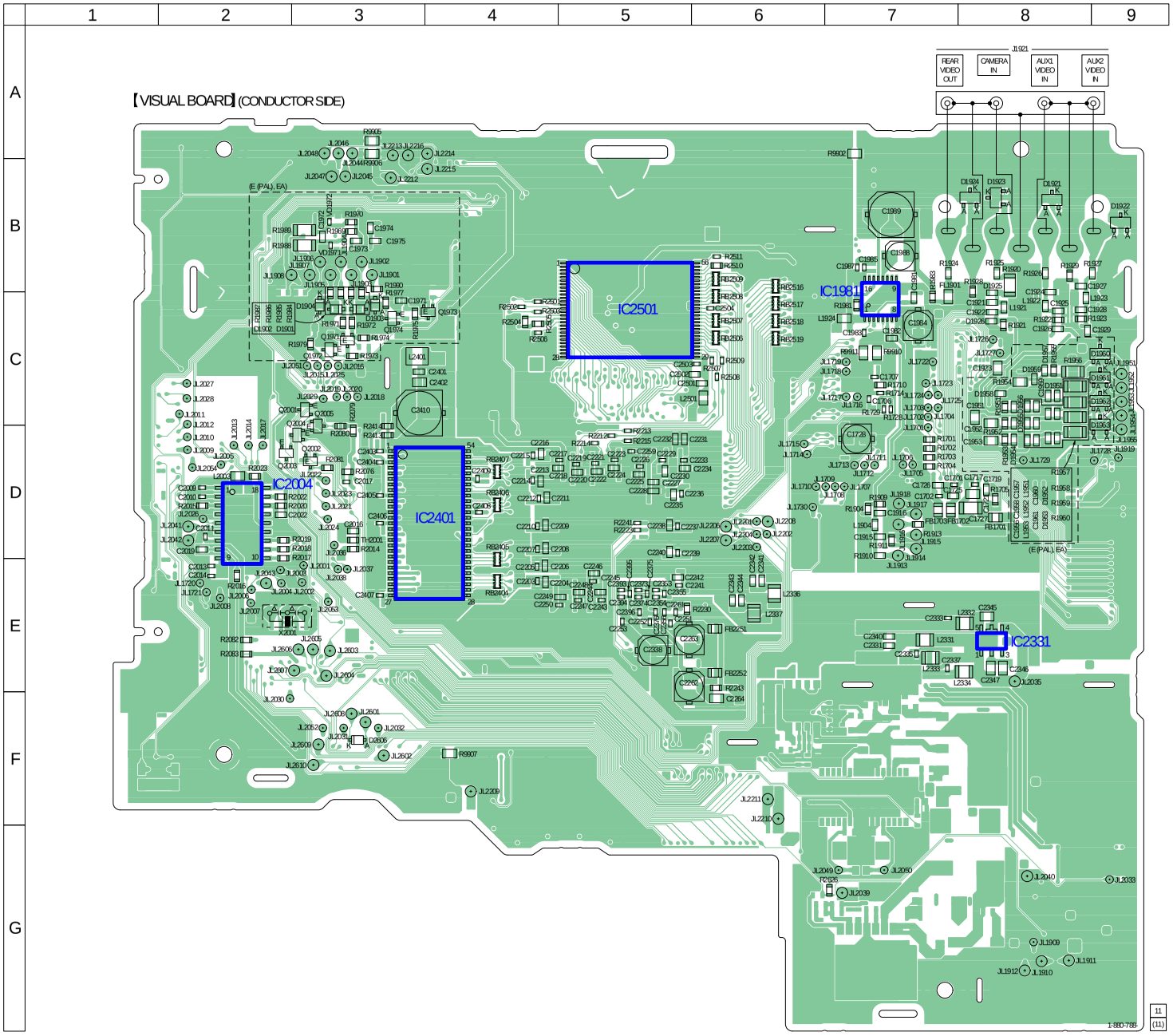


5-16. PRINTED WIRING BOARD - VISUAL Board (Component Side) - • See page 25 for Circuit Boards Location. • : Uses unleaded solder.

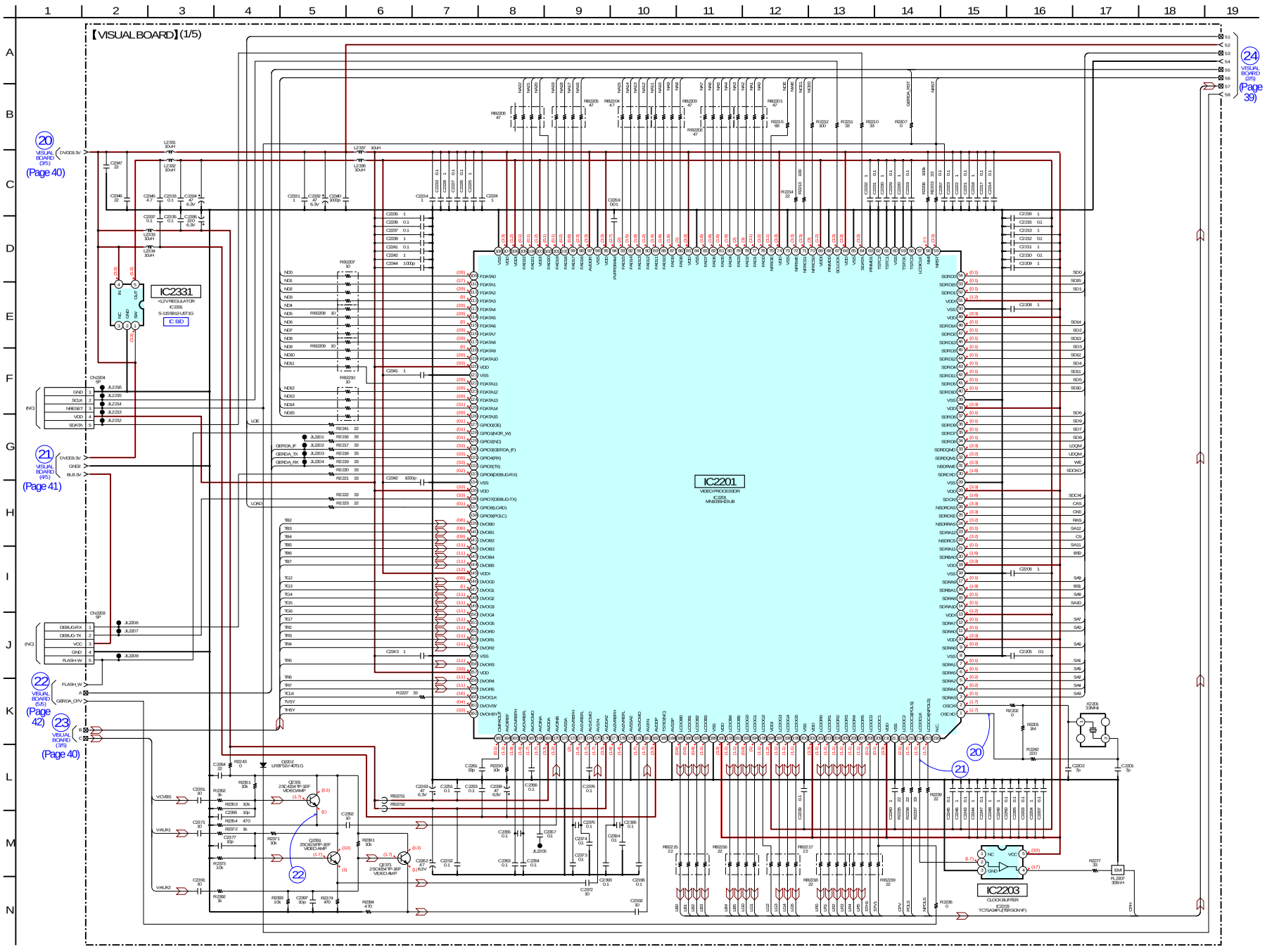


Note: CN2003 and R2680 have been deleted in the midway of production.

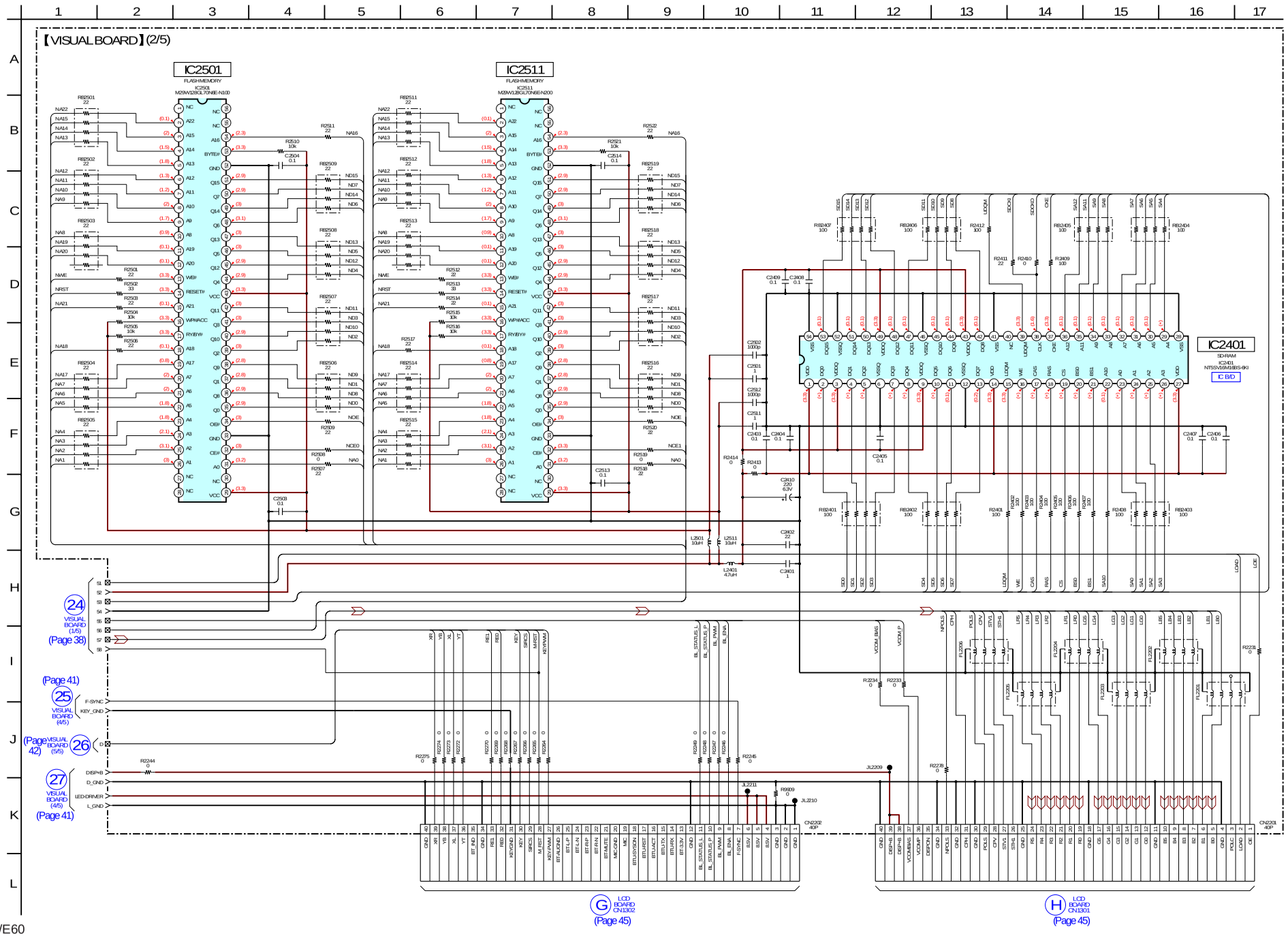
5-17. PRINTED WIRING BOARD - VISUAL Board (Conductor Side) - • See page 25 for Circuit Boards Location. • : Uses unleaded solder.



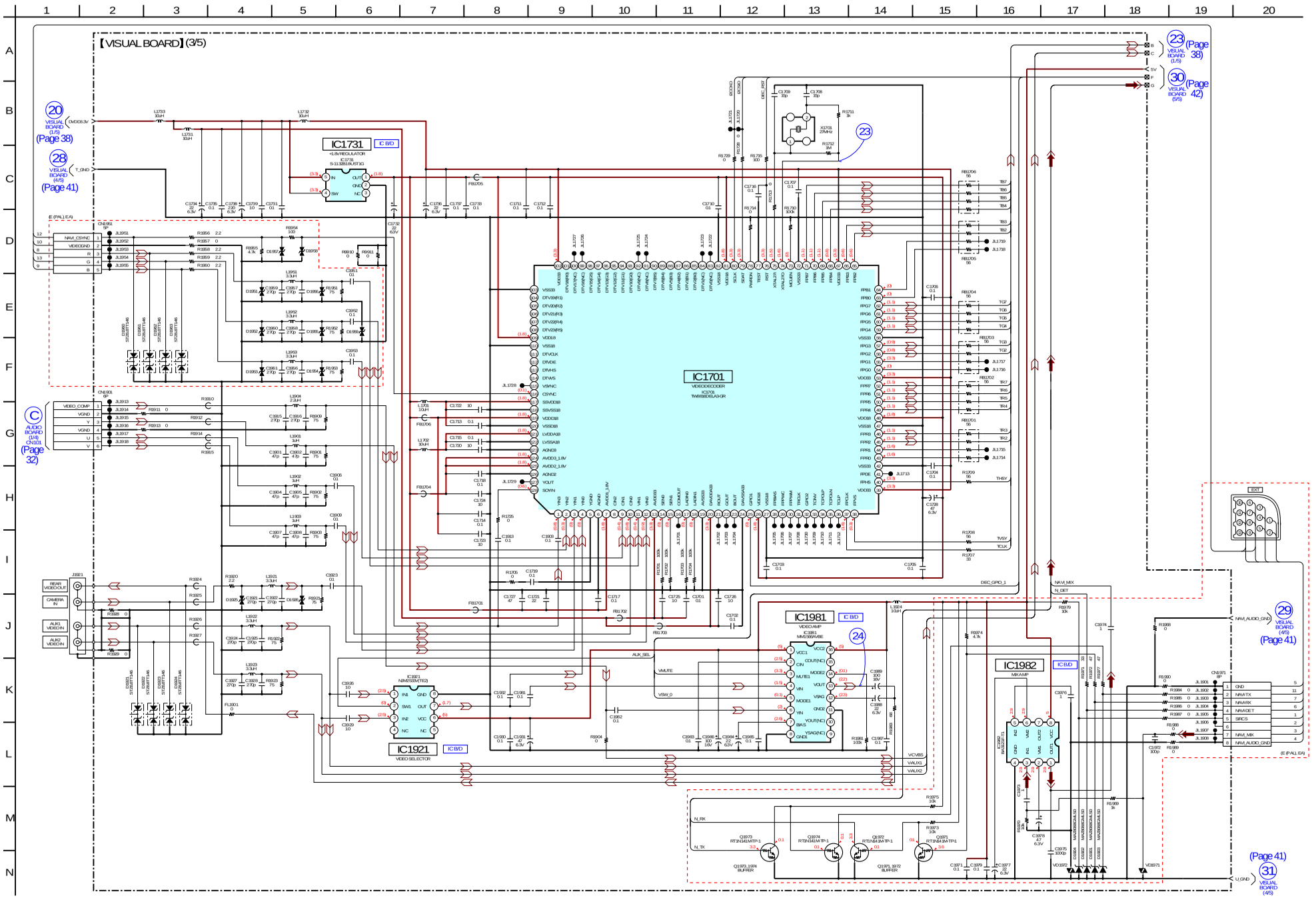
5-18. SCHEMATIC DIAGRAM - VISUAL Board (1/5) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams. • See page 57 for IC Pin Function Description.



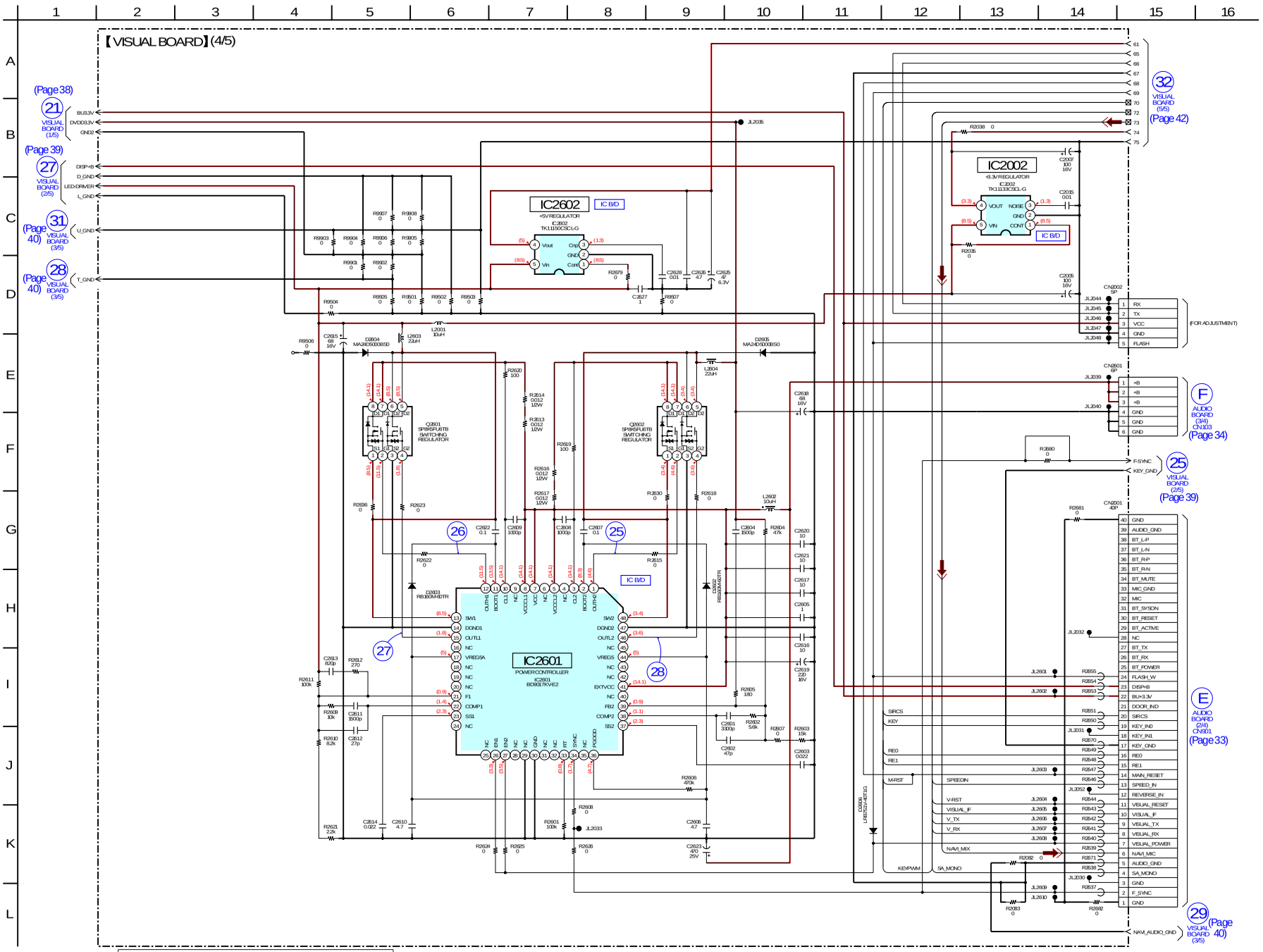
5-19. SCHEMATIC DIAGRAM - VISUAL Board (2/5) - • See page 47 for IC Block Diagrams.



5-20. SCHEMATIC DIAGRAM - VISUAL Board (3/5) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams. • See page 57 for IC Pin Function Description.

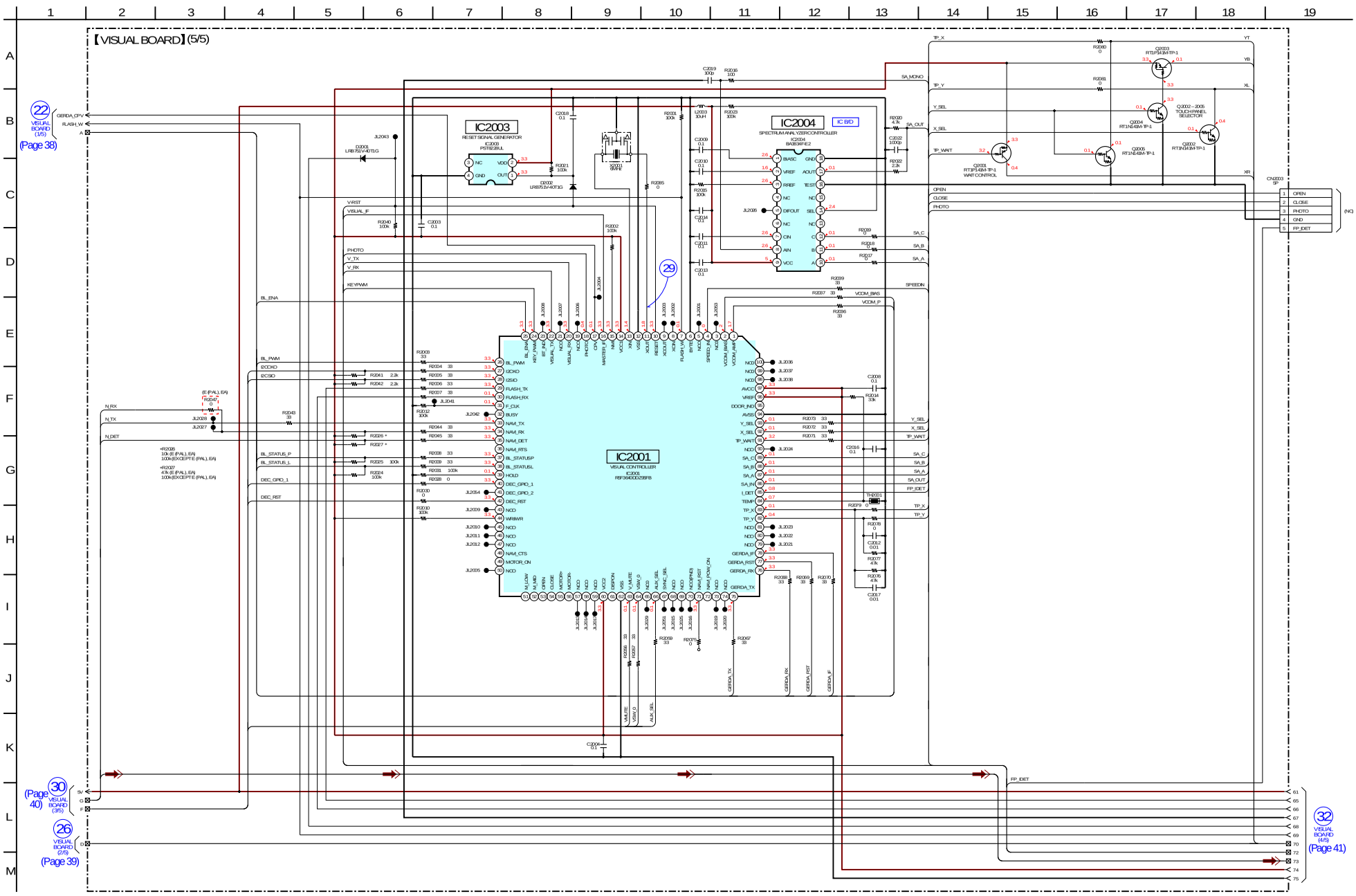


5-21. SCHEMATIC DIAGRAM - VISUAL Board (4/5) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams.



Note: R2680 has been deleted in the midway of production.

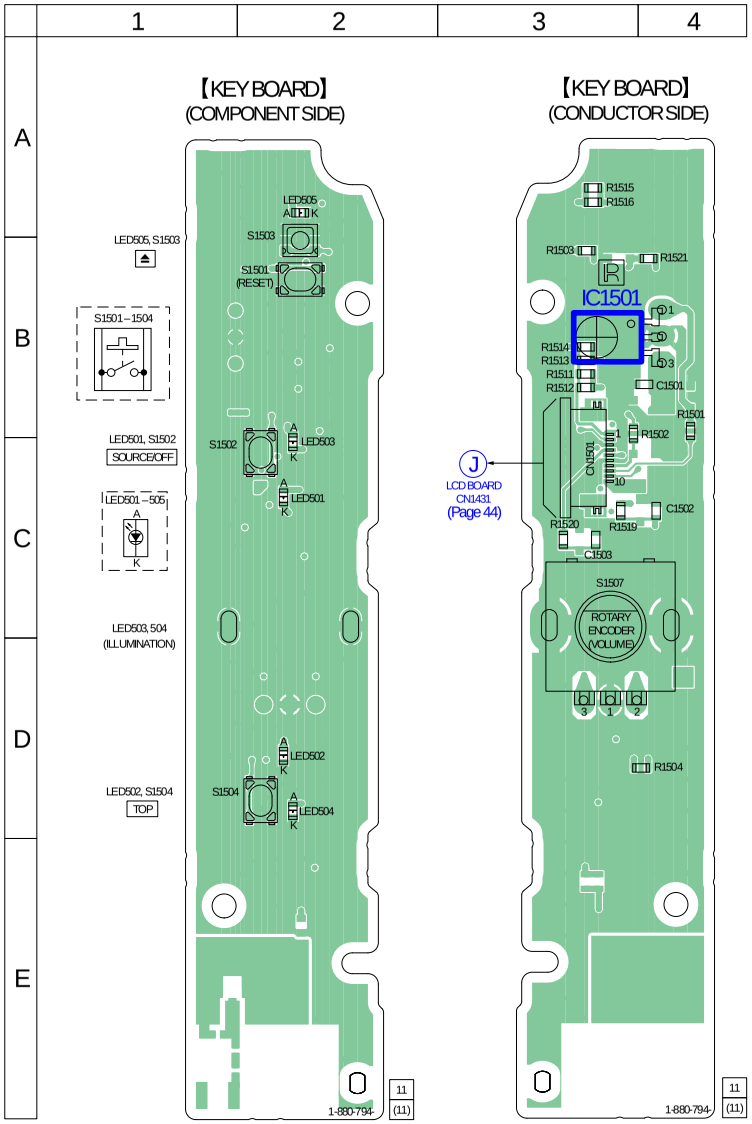
5-22. SCHEMATIC DIAGRAM - VISUAL Board (5/5) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams. • See page 57 for IC Pin Function Description.



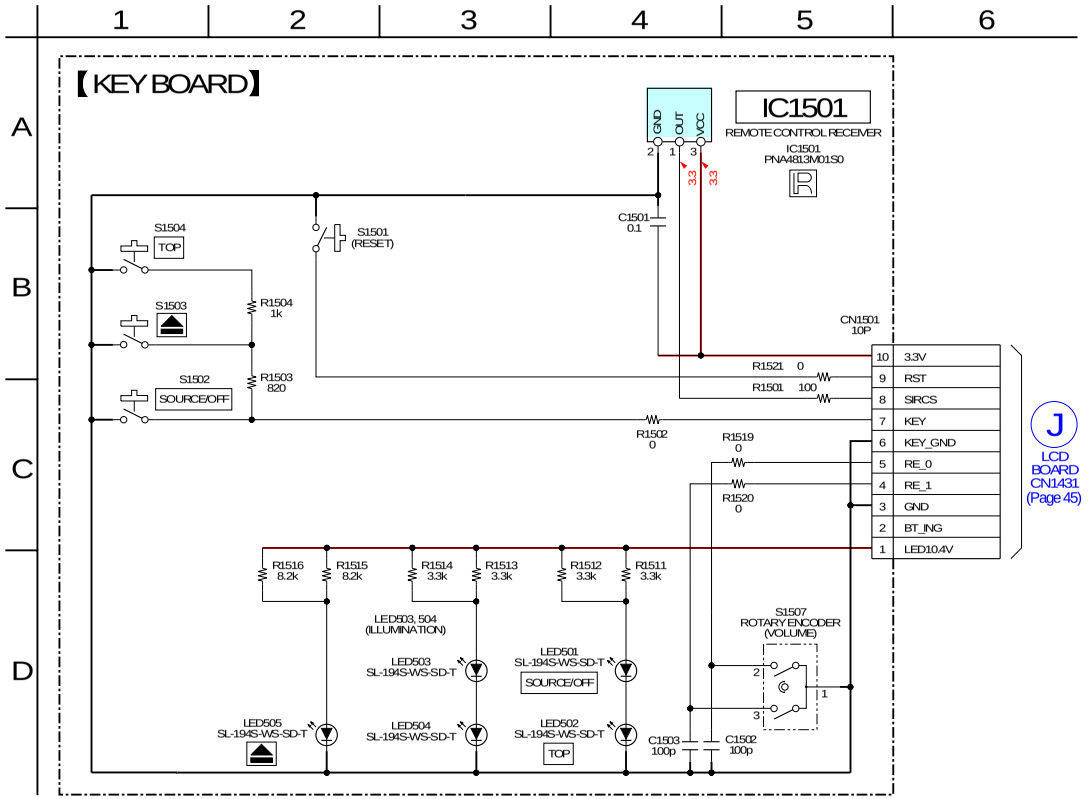
Note: CN2003 has been deleted in the midway of production.

5-23. PRINTED WIRING BOARD - KEY Board -

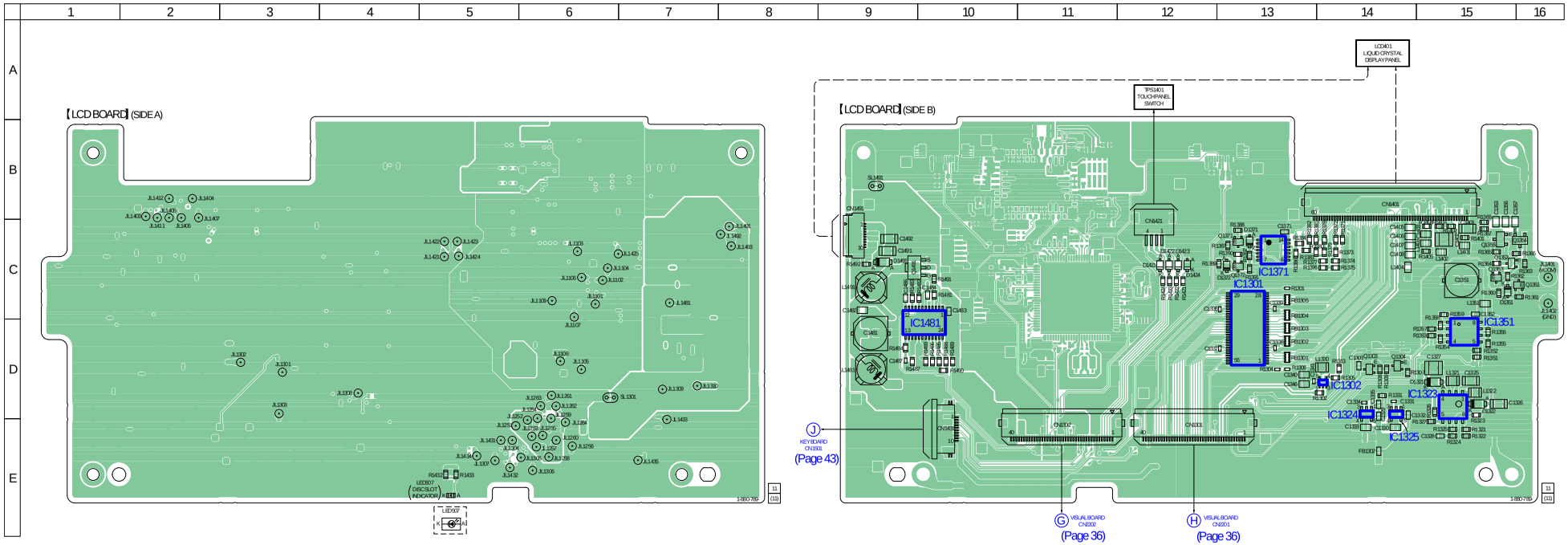
• See page 25 for Circuit Boards Location. • : Uses unleaded solder.



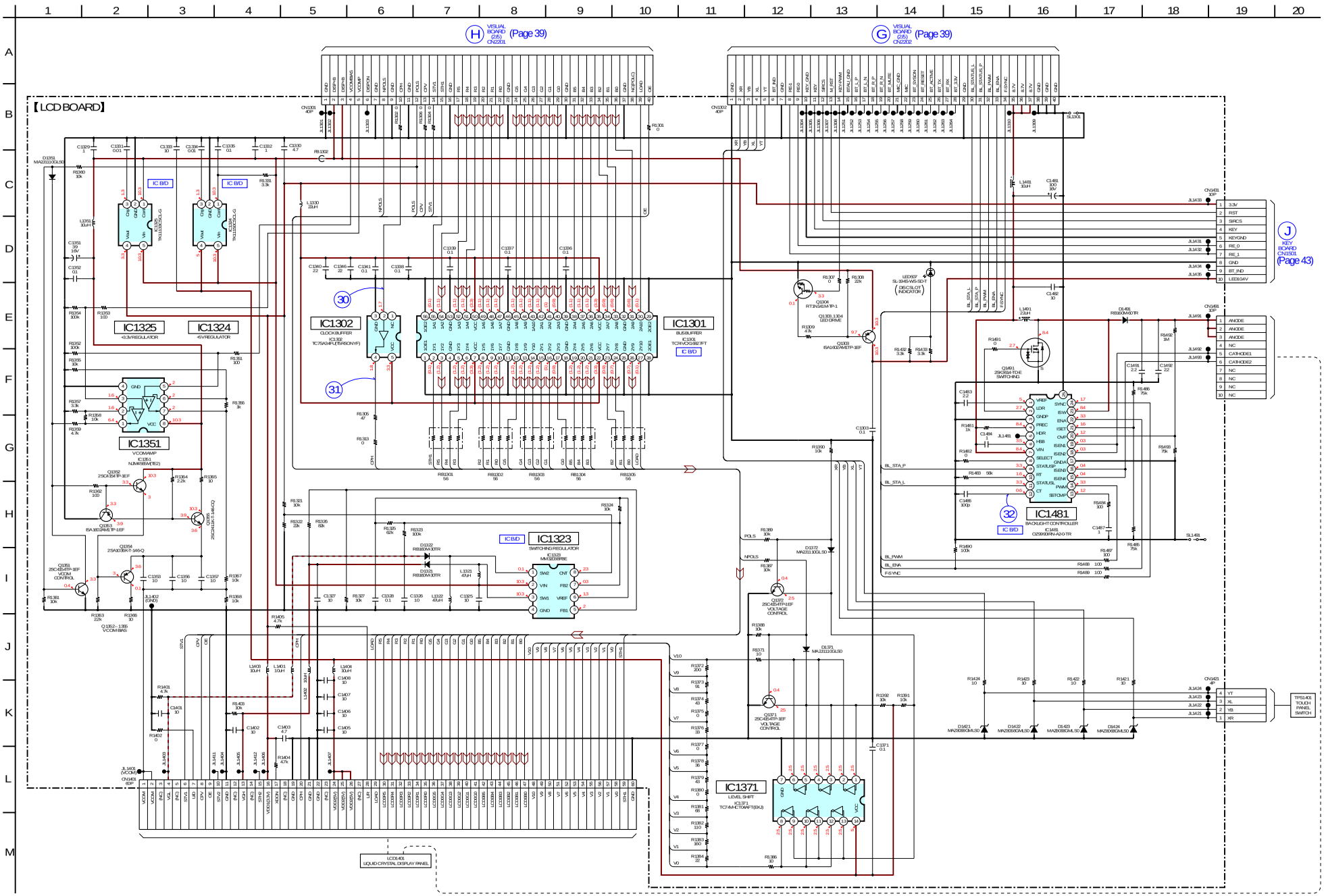
5-24. SCHEMATIC DIAGRAM - KEY Board -



5-25. PRINTED WIRING BOARD - LCD Board - • See page 25 for Circuit Boards Location. • : Uses unleaded solder.



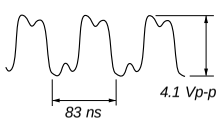
5-26. SCHEMATIC DIAGRAM - LCD Board - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams.



• Waveforms

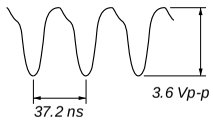
– SERVO Board –

① IC4 ㊵ (USBXO)



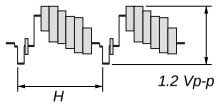
2 V/DIV, 50 ns/DIV

② IC4 ㊽ (XO)



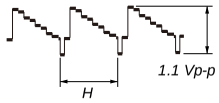
2 V/DIV, 20 ns/DIV

③ IC4 ㊺ (DAC3)
(Color bar)



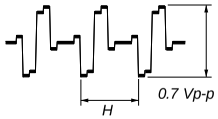
500 mV/DIV, 20 µs/DIV

④ IC4 ㊾ (DAC4)
(Color bar)



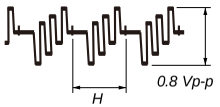
500 mV/DIV, 10 µs/DIV

⑤ IC4 ㊷ (DAC2)
(Color bar)



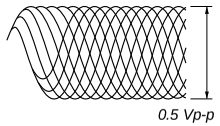
200 mV/DIV, 10 µs/DIV

⑥ IC4 ㊹ (DAC1)
(Color bar)



200 mV/DIV, 10 µs/DIV

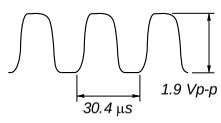
⑦ IC4 ㊼ (RFP), ㊽ (RFN)
(DVD play mode)



200 mV/DIV, 200 ns/DIV

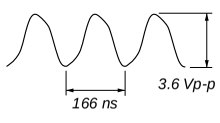
– AUDIO Board –

⑩ IC502 ⑨ (XCOUT)



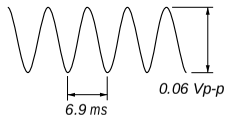
1 V/DIV, 20 µs/DIV

⑪ IC502 ⑪ (XOUT)



2 V/DIV, 100 ns/DIV

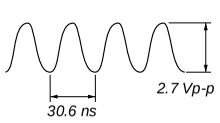
⑫ IC1 ⑯ (XTAL1)



20 mV/DIV, 5 ms/DIV

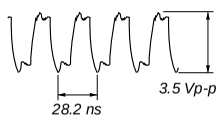
– VISUAL Board –

⑳ IC2201 ① (OSCXO)



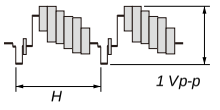
1 V/DIV, 10 ns/DIV

㉑ IC2201 ㉑ (LCDOCLK)



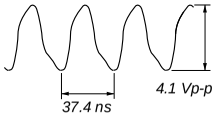
2 V/DIV, 20 ns/DIV

㉒ Q2331 (Emitter)
(Color bar)



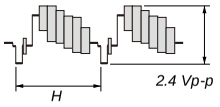
500 mV/DIV, 20 µs/DIV

㉓ IC1701 ㉔ (XTAL27O)



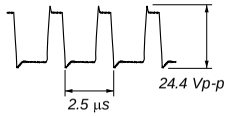
2 V/DIV, 20 ns/DIV

㉔ IC1981 ⑬ (VOUT)
(Color bar)



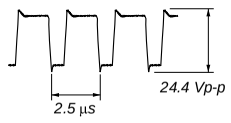
1 V/DIV, 20 µs/DIV

㉕ IC2601 ① (OUTH2)



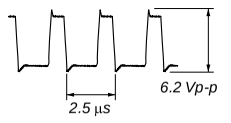
10 V/DIV, 1 µs/DIV

㉖ IC2601 ⑫ (OUTH1)



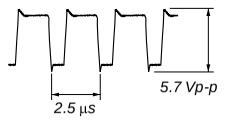
10 V/DIV, 1 µs/DIV

㉗ IC2601 ⑮ (OUTL1)



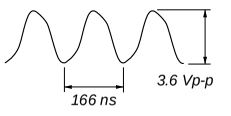
2 V/DIV, 1 µs/DIV

㉘ IC2601 ㊻ (OUTL2)



2 V/DIV, 1 µs/DIV

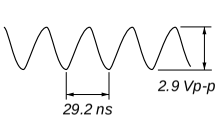
㉙ IC2001 ⑪ (XOUT)



2 V/DIV, 100 ns/DIV

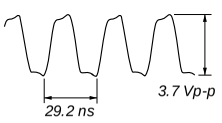
– LCD Board –

㉚ IC1302 ②



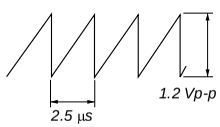
2 V/DIV, 20 ns/DIV

㉛ IC1302 ④



2 V/DIV, 20 ns/DIV

㉜ IC1481 ⑫ (CT)

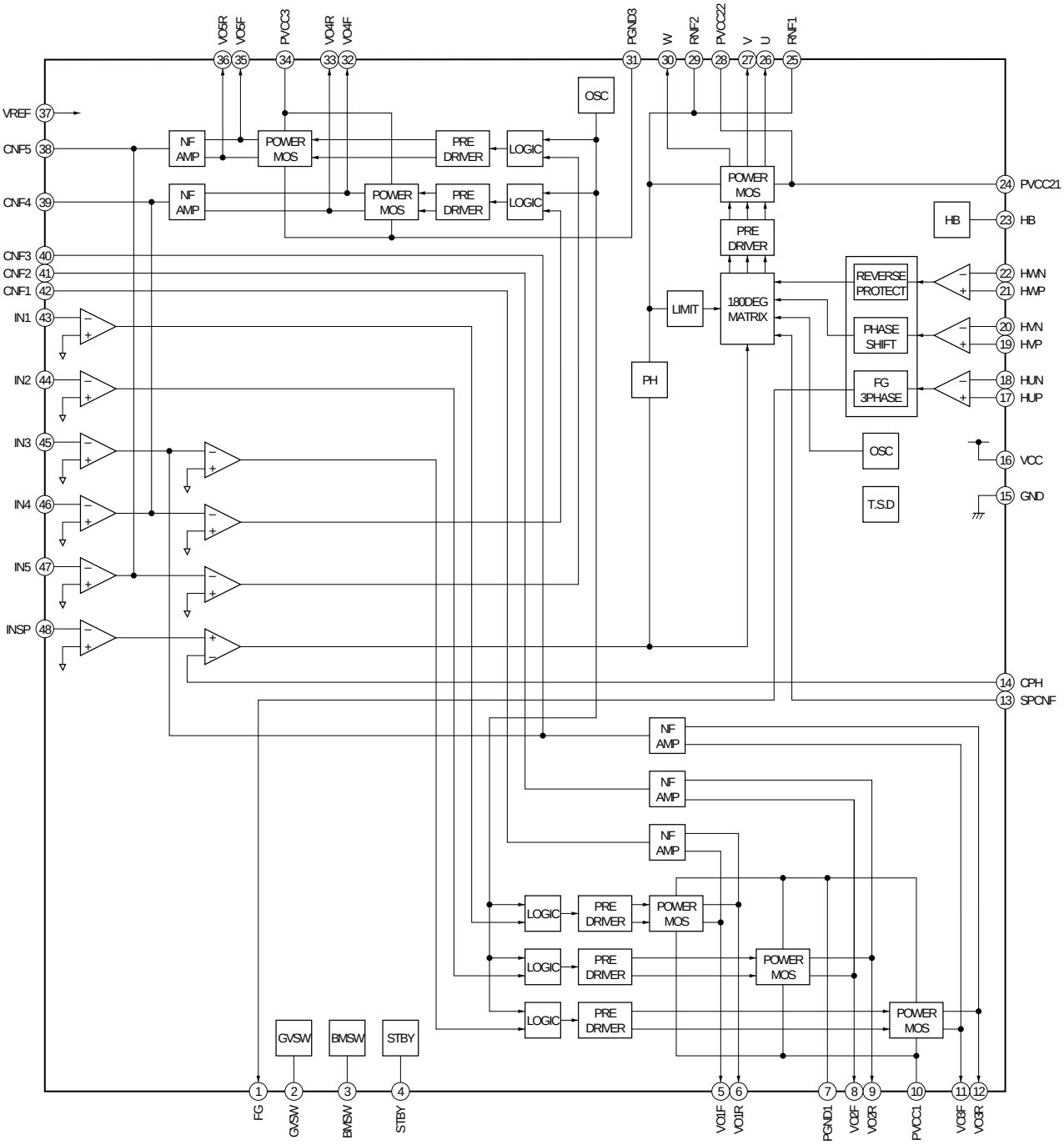


500 mV/DIV, 2 µs/DIV

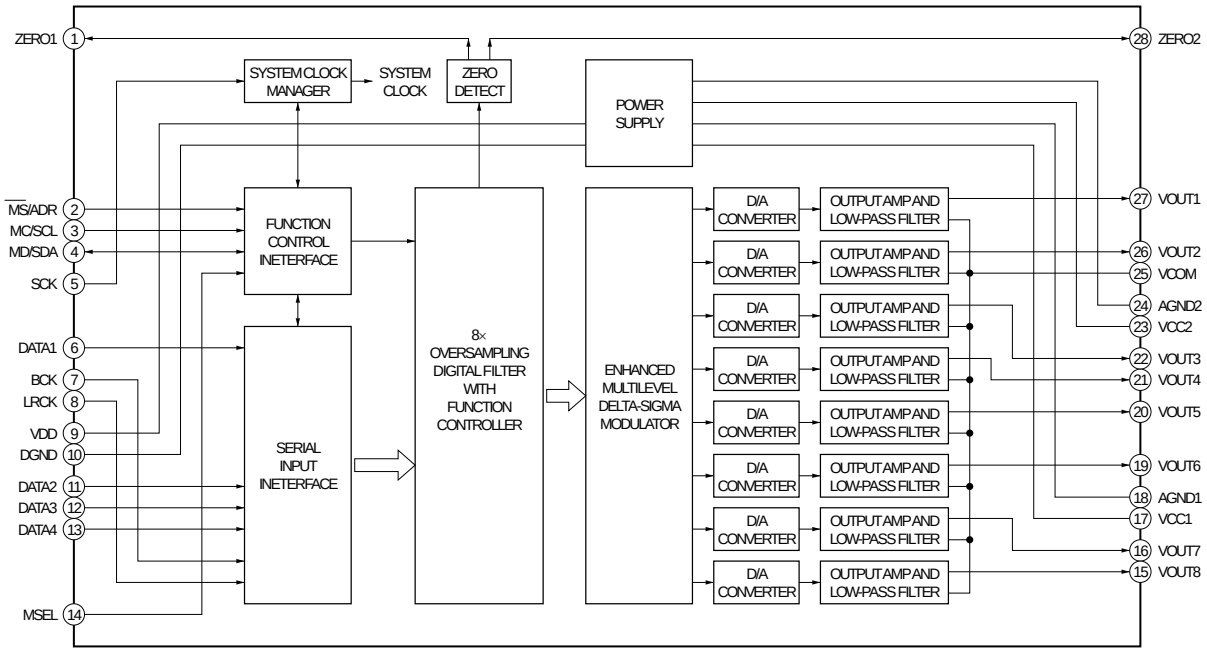
• IC Block Diagrams

– SERVO Board –

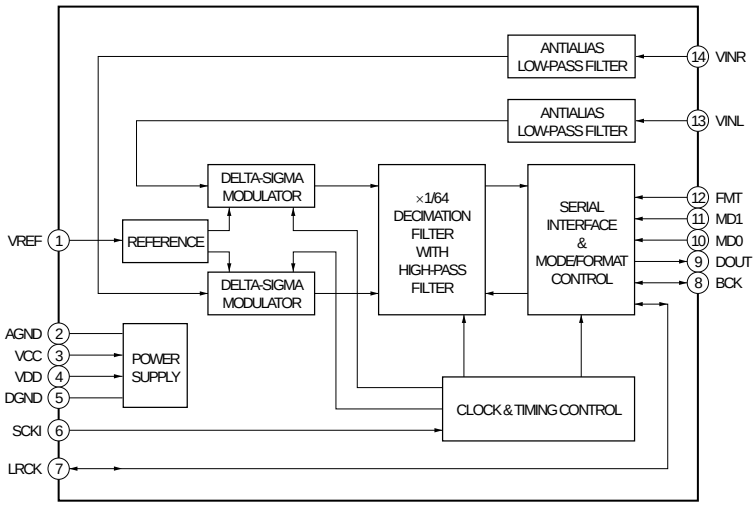
IC1 BH5510KV-E2



IC6 PCM1680DBQ

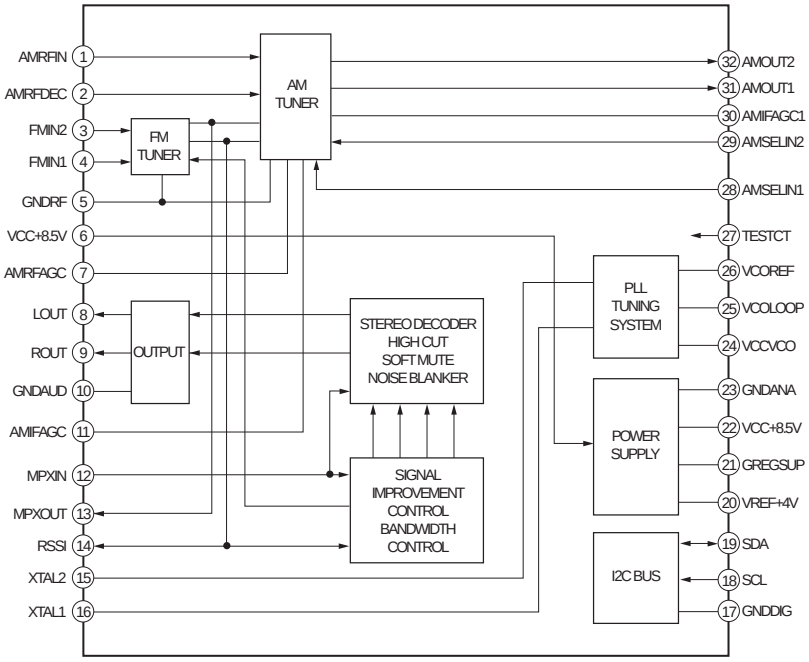


IC7 PCM1808PWR

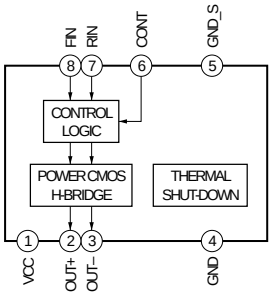


– AUDIO Board –

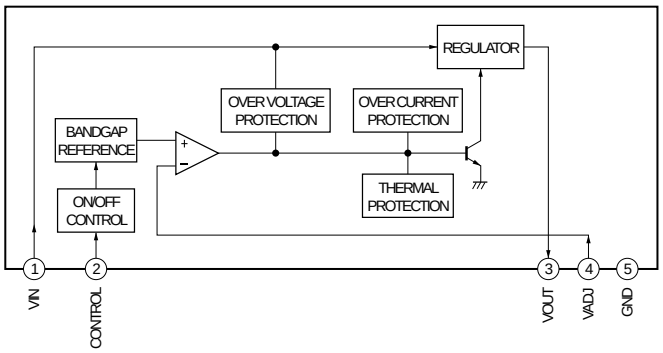
IC1 TEF6617T/V1/S470, 518



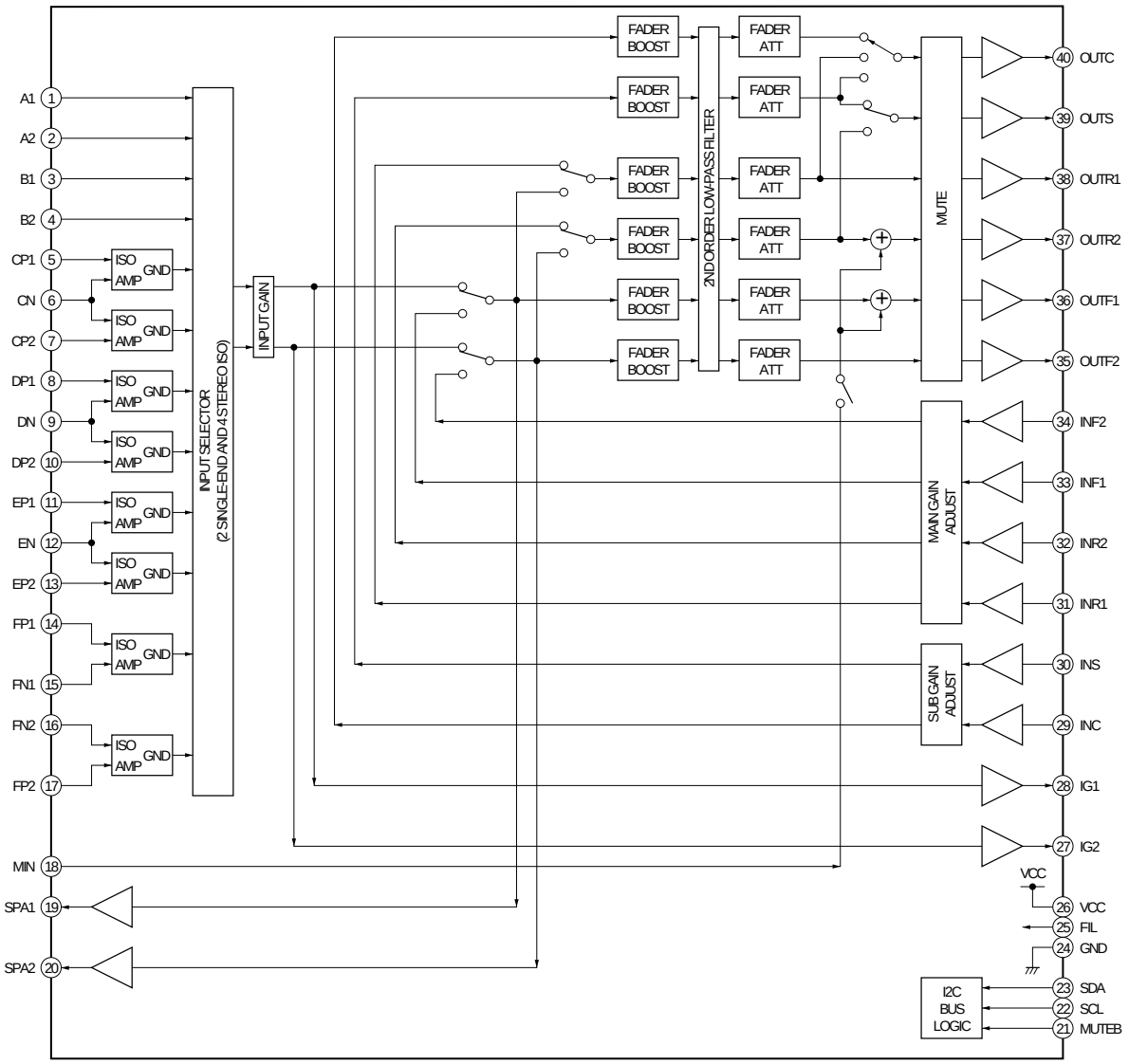
IC102 BD7931F



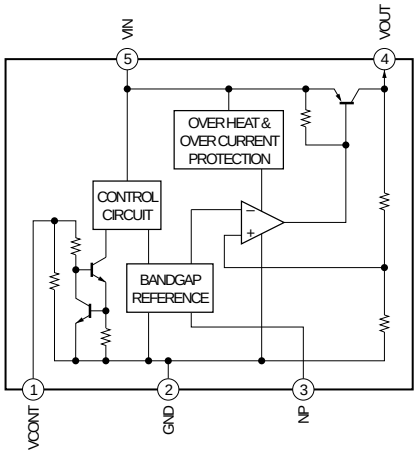
IC104 NJM2387ADL3 (TE2)



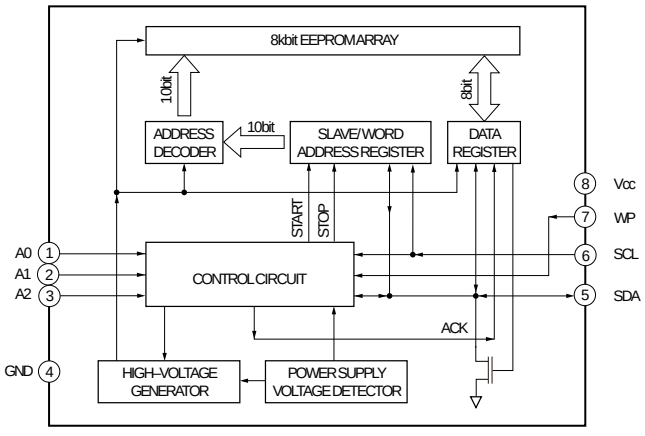
IC301 BD3467FV-E2



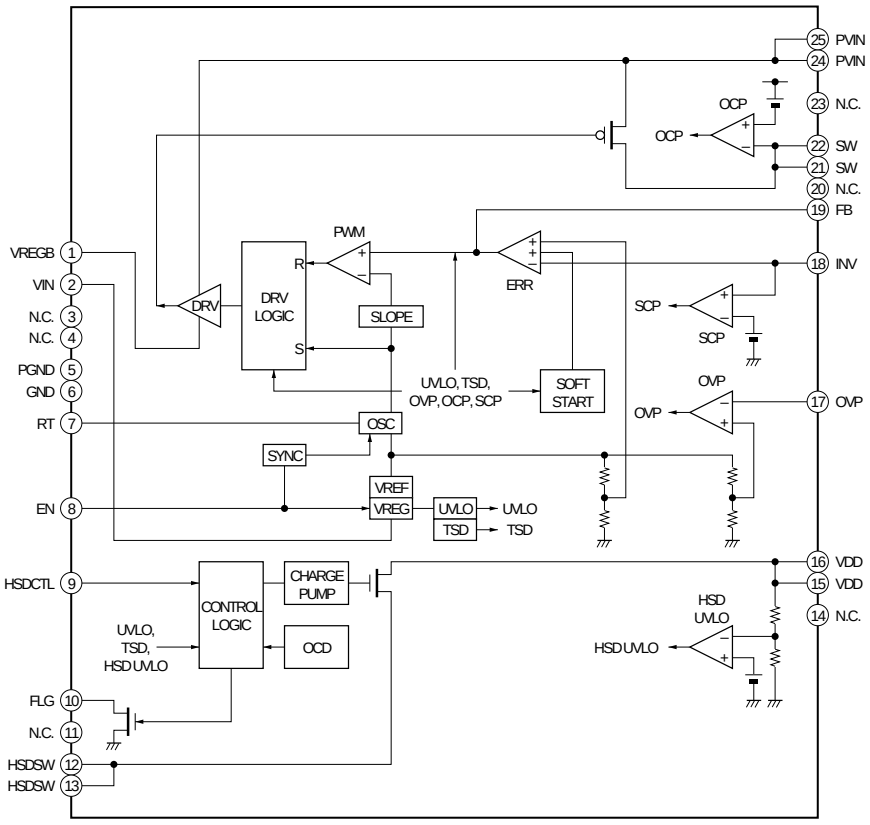
IC503 TK11133CSCL-G



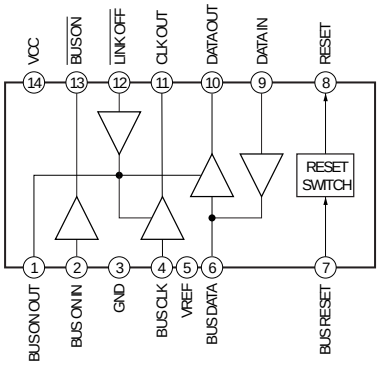
IC504 BR24L08FV-WE2



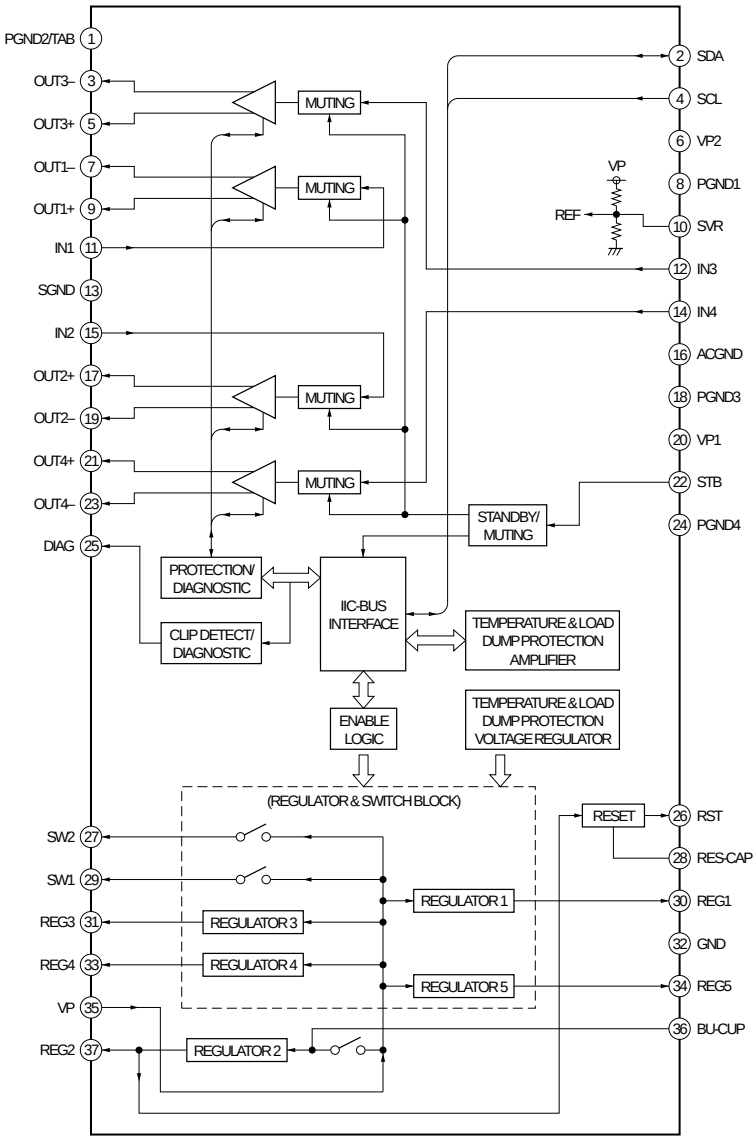
IC601 BD9070FP-E2



IC603 BA8271F-E2

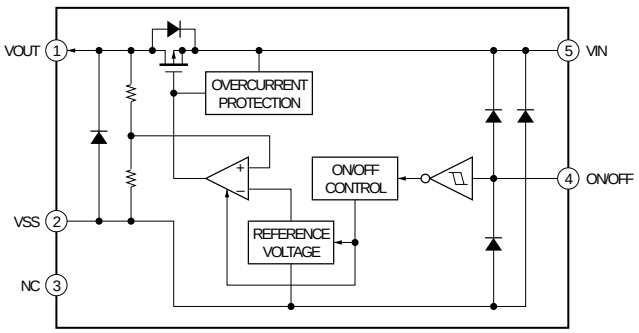


IC801 TDA8588AJ/N2/R1

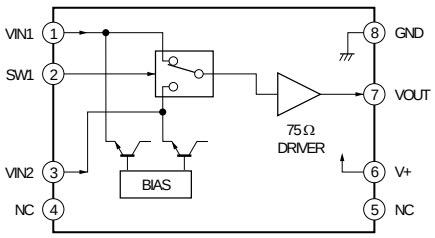


– VISUAL Board –

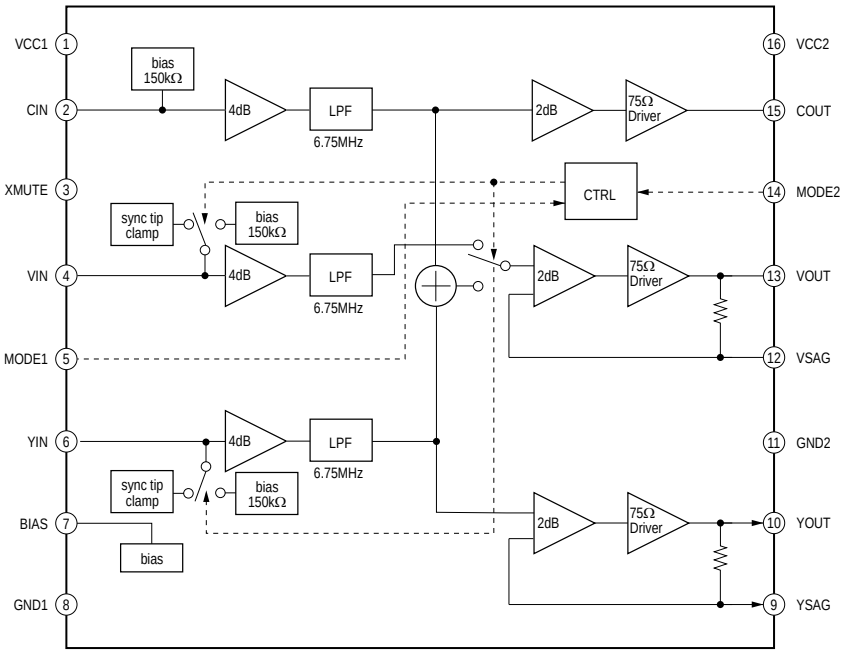
IC1731 S-1132B18-U5T1G



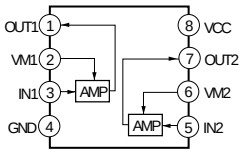
IC1921 NJM2533V (TE2)



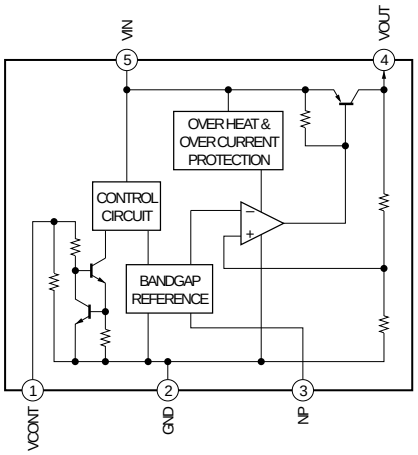
IC1981 MM1566AVBE



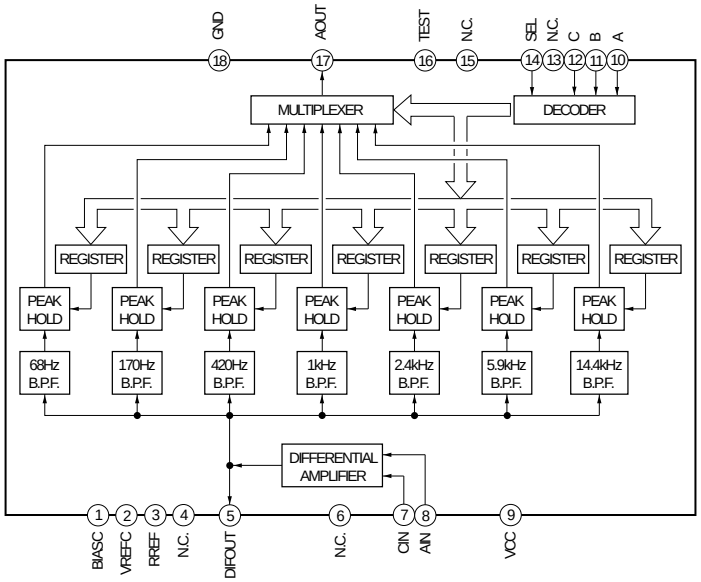
IC1982 BA3121F



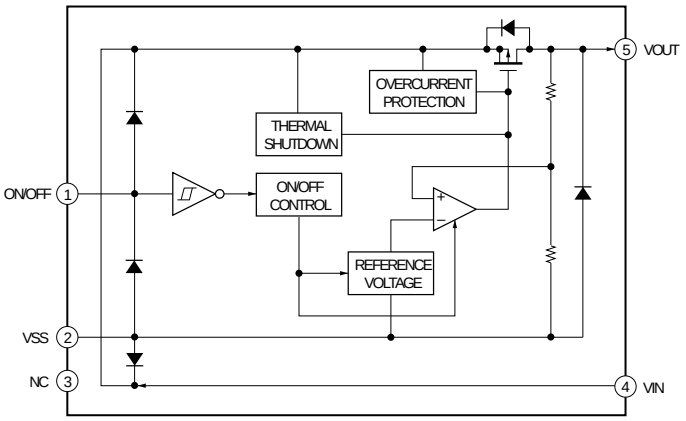
IC2002 TK11133CSCL-G
IC2602 TK11150CSCL-G



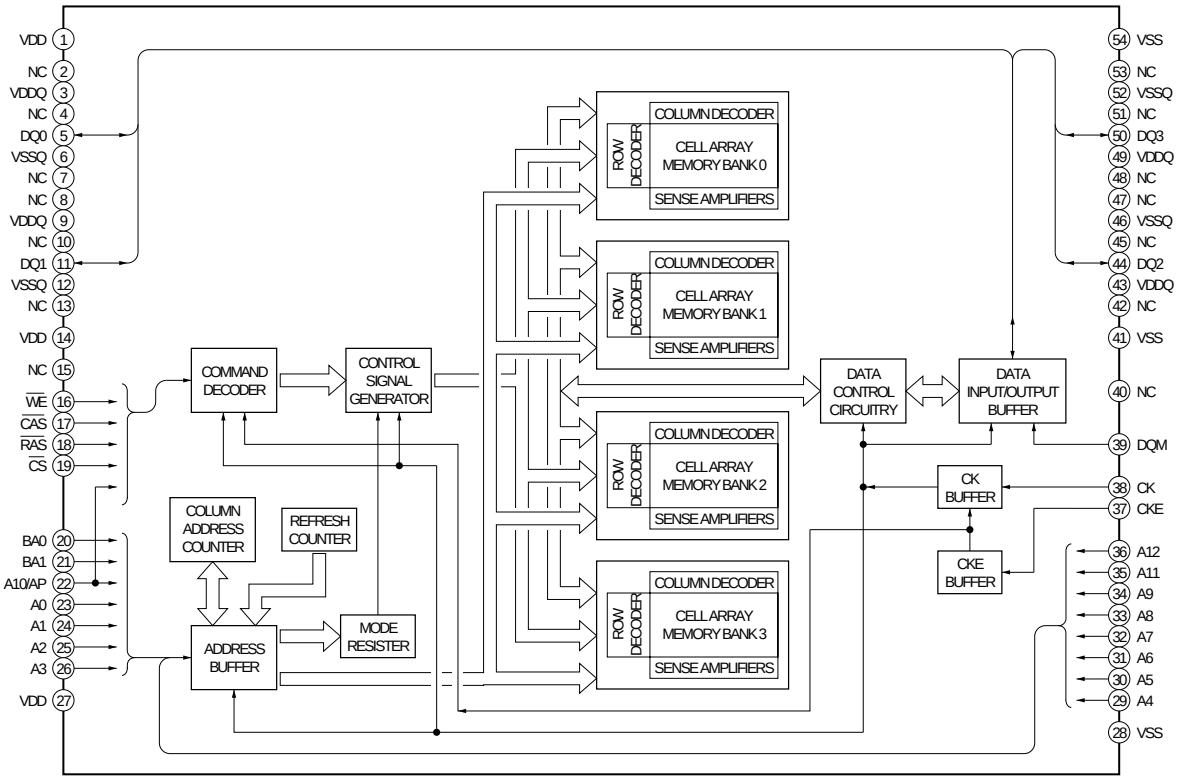
IC2004 BA3834F-E2



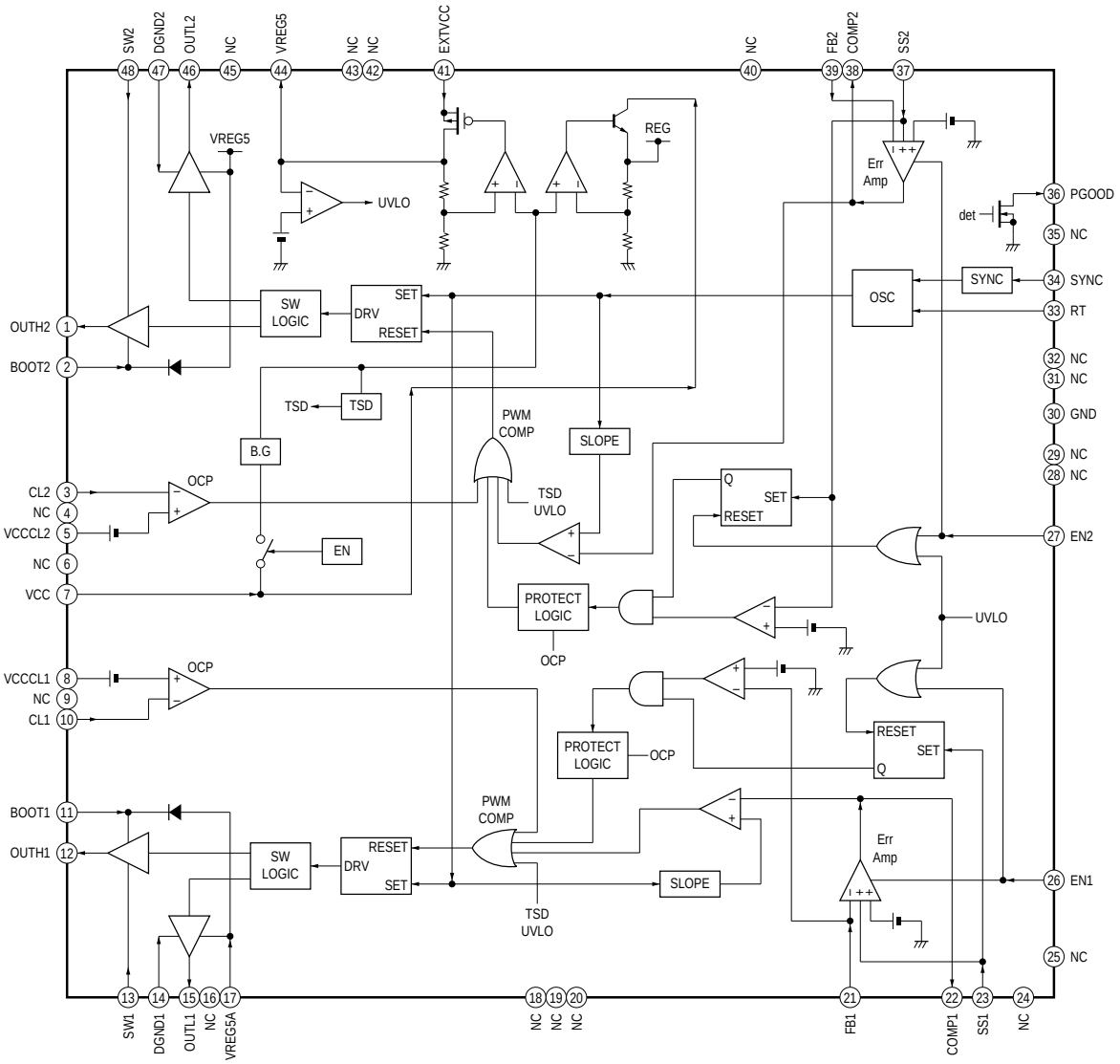
IC2331 S-1155B12-U5T1G



IC2401 NT5SV16M16BS-6KI

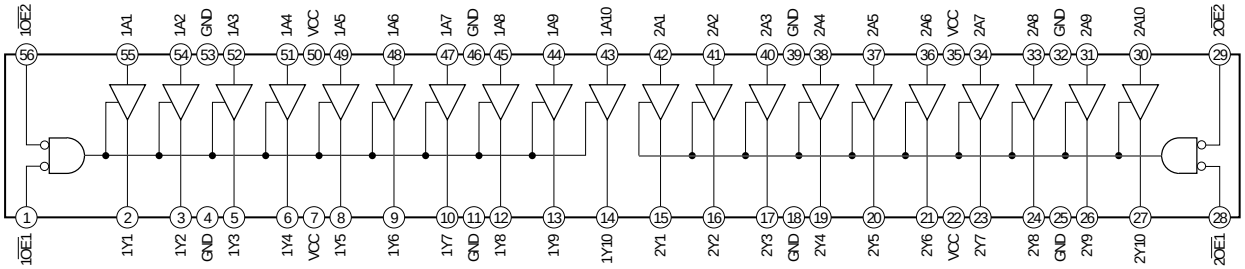


IC2601 BD9017KV-E2

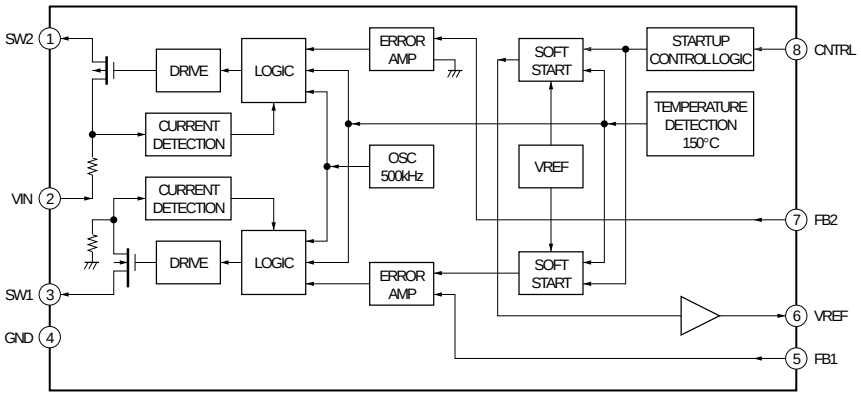


– LCD Board –

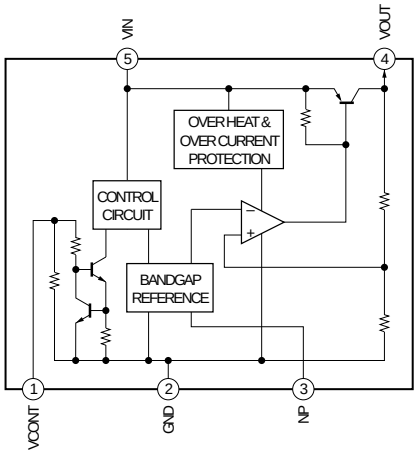
IC1301 TC74VCX16827 (EL, F)



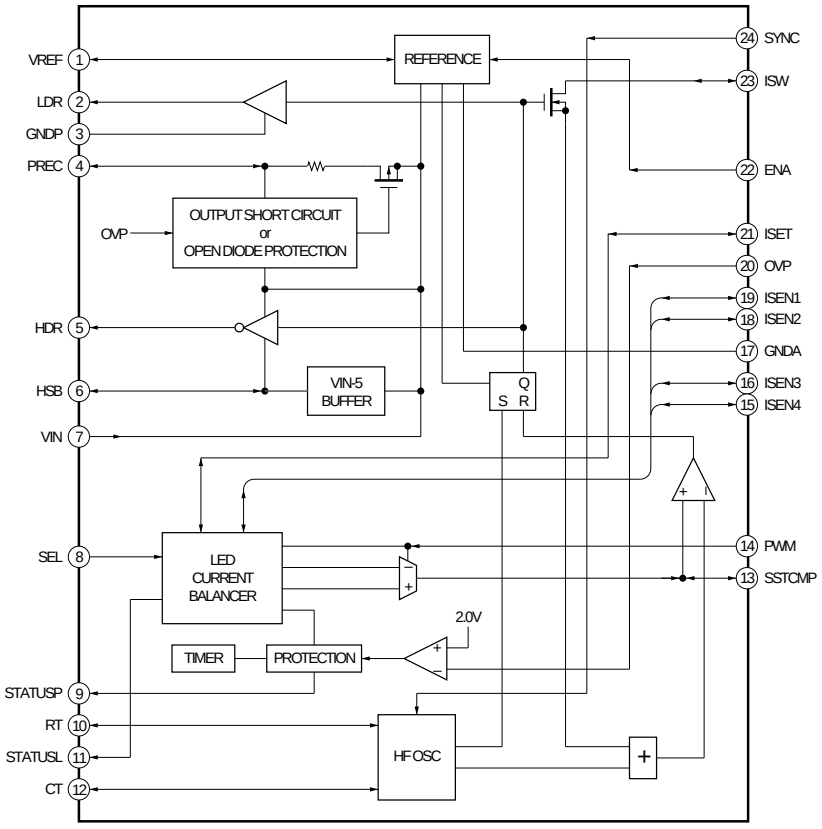
IC1323 MM3203BFBE



IC1324 TK11150CSCL-G
IC1325 TK11133CSCL-G



IC1481 OZ9990IRN-A2-0-TR



• IC Pin Function Description

SERVO BOARD IC4 ZR36988HQCG-A (DVD PROCESSOR)

Pin No.	Pin Name	I/O	Description
1 to 9	MEMDAT2 to MEMDAT7, MEMDAT13 to MEMDAT15	I/O	Two-way data bus with the flash memory
10	VDDC	-	Power supply terminal (+1.8V)
11	VDDP	-	Power supply terminal (+3.3V)
12	MEMADD16	O	Address signal output to the flash memory
13	MEMCS1	O	Chip select signal output to the flash memory
14 to 21	MEMADD15 to MEMADD8	O	Address signal output to the flash memory
22	MEMWR#	O	Write enable signal output to the flash memory
23 to 29	MEMADD18, MEMADD17, MEMADD7 to MEMADD3	O	Address signal output to the flash memory
30	VDDP	-	Power supply terminal (+3.3V)
31 to 33	MEMADD2, MEMADD1, MEMADD19	O	Address signal output to the flash memory
34	USBVBUS	-	USB VBUS terminal Not used
35	USBID	I/O	USB identification signal input/output terminal Not used
36	USBVDDA3P3	-	Power supply terminal (+3.3V)
37	USBDP	I/O	Two-way USB data (positive) with the USB connector
38	USBDN	I/O	Two-way USB data (negative) with the USB connector
39	USBREF	O	USB reference voltage output terminal Not used
40	USBXO	O	System clock output terminal (12 MHz) (for USB)
41	USBXI	I	System clock input terminal (12 MHz) (for USB)
42	USBVSSPLL	-	Ground terminal
43	USBVDDPLL1V8	-	Power supply terminal (+1.8V)
44 to 46	RAMADD3 to RAMADD5	O	Address signal output to the SD-RAM
47	VDDIP	-	Power supply terminal (+3.3V)
48 to 51	RAMADD2, RAMADD6, RAMADD1, RAMADD7	O	Address signal output to the SD-RAM
52	VDDC	I	Power supply terminal (+1.8V)
53 to 55	RAMADD0, RAMADD8, RAMADD10	O	Address signal output to the SD-RAM
56	VDDP	-	Power supply terminal (+3.3V)
57	GNDC	-	Ground terminal
58, 59	RAMADD9, RAMADD11	O	Address signal output to the SD-RAM
60	RAMCS0#	O	Chip select signal output to the SD-RAM
61	RAMBA	O	Bank address signal output to the SD-RAM
62	RAMCS1#	O	Chip select signal output to the SD-RAM
63	RAMRAS#	O	Row address signal output to the SD-RAM
64	RAMCAS#	O	Column address signal output to the SD-RAM
65	VDDP	-	Power supply terminal (+3.3V)
66	GNDC	-	Ground terminal
67	RAMWE#	O	Write enable signal output to the SD-RAM
68	RAMDQM	O	Data mask signal output to the SD-RAM
69	GNDPCLK	-	Ground terminal
70	PCLK	O	Clock signal output to the SD-RAM
71	VDDPCLK	-	Power supply terminal (+3.3V)
72 to 75	RAMDAT9 to RAMDAT6	I/O	Two-way data bus with the SD-RAM
76	VDDP	-	Power supply terminal (+3.3V)
77	GNDC	-	Ground terminal

Pin No.	Pin Name	I/O	Description
78 to 83	RAMDAT10 to RAMDAT12, RAMDAT5 to RAMDAT3	I/O	Two-way data bus with the SD-RAM
84	VDDP	-	Power supply terminal (+3.3V)
85	GNDC	-	Ground terminal
86, 87	RAMDAT13, RAMDAT2	I/O	Two-way data bus with the SD-RAM
88	VDDC	-	Power supply terminal (+1.8V)
89 to 92	RAMDAT14, RAMDAT1, RAMDAT15, RAMDAT2	I/O	Two-way data bus with the SD-RAM
93	VDDP	-	Power supply terminal (+3.3V)
94	CD_DVD#	O	CD/DVD selection signal output to the optical pick-up block "L": DVD, "H": CD
95	GNDC	-	Ground terminal
96	DRVSTB	O	Standby signal output to the coil/motor driver
97	SPDIF_OUT	O	S/PDIF signal output terminal Not used
98	ALRCLK	O	L/R sampling clock signal output to the D/A converter and D/A converter
99	ABCLK	O	Bit clock signal output to the D/A converter and D/A converter
100	AMUTE	O	Audio muting on/off control signal output terminal "H": muting on
101	ML	O	Serial data latch pulse signal output to the D/A converter
102	MC	O	Serial data transfer clock signal output to the D/A converter
103	MD	O	Serial data output to the D/A converter
104	AIN	I	Digital audio signal input from the A/D converter
105	VDDAPWM	-	Power supply terminal (+3.3V)
106	OP_GAIN	O	Gain control signal output to the optical pick-up block
107	CP_DATA_IN	I	Serial data input from the EEPROM
108	CP_DATA_OUT	O	Serial data output to the EEPROM
109	CP_CLK	O	Serial data transfer clock signal output to the EEPROM
110	GNDAPWM	-	Ground terminal
111	HOMESW	I	Limit switch input terminal
112	AOUT2	O	Digital audio signal output to the D/A converter
113	NC	-	Not used
114	AOUT1	O	Digital audio signal output to the D/A converter
115	NC	-	Not used
116	AOUT0	O	Digital audio signal output to the D/A converter
117	GNDC	-	Ground terminal
118	AMCLK	O	Master clock signal output to the D/A converter and D/A converter
119	VDDP	-	Power supply terminal (+3.3V)
120, 121	NC	-	Not used
122	VCLK2	O	Digital video clock signal output terminal Not used
123 to 130	VID7 to VID0	O	Digital video data output terminal Not used
131	FG_IN	I	FG signal input from the coil/motor driver
132, 133	NC	-	Not used
134	IRRCV	-	Not used
135	VDDP	-	Power supply terminal (+3.3V)
136	DUPTD0	O	Main debug UART data output terminal Not used
137	DUPRD0	I	Main debug UART data input terminal Not used
138	DUPTD1	O	Main debug UART data output terminal Not used
139	DUPRD1	I	Main debug UART data input terminal Not used
140	VDDC	-	Power supply terminal (+1.8V)
141	GNDC	-	Ground terminal
142	RESET#	I	Reset signal input from the master controller "L": reset
143	GNDPLL	-	Ground terminal
144	VDDPLL	-	Power supply terminal (+1.8V)
145	XO	O	System clock signal output terminal (27 MHz)
146	XI	I	System clock signal input terminal (27 MHz)
147	DAC5	O	Analog video signal output terminal Not used
148	GNDDAC_D	-	Ground terminal

Pin No.	Pin Name	I/O	Description
149	DAC4	O	Analog YUV video signal (Y) output to the video decoder
150	VDDDAC	-	Power supply terminal (+3.3V)
151	DAC3	O	Analog composite video signal (CVBS) output to the video amplifier and video processor
152	DAC2	O	Analog YUV video signal (V) output to the video decoder
153	VDDDAC	-	Power supply terminal (+3.3V)
154	DAC1	O	Analog YUV video signal (U) output to the video decoder
155	RSET	I	Gain adjust signal input terminal Not used
156	GNDDACBS2	-	Ground terminal
157	RFP	I	RF signal (positive) input from the optical pick-up block
158	RFN	I	RF signal (negative) input from the optical pick-up block
159	VDD1AFE	-	Power supply terminal (+3.3V)
160	A	I	A signal input from the optical pick-up block
161	B	I	B signal input from the optical pick-up block
162	VDDAFE	-	Power supply terminal (+3.3V)
163	C	I	C signal input from the optical pick-up block
164	D	I	D signal input from the optical pick-up block
165	J	I	J signal input terminal Not used
166	E	I	E signal input from the optical pick-up block
167	K	I	K signal input terminal Not used
168	F	I	F signal input from the optical pick-up block
169	GNDAFE	-	Ground terminal
170	G	I	G signal input terminal Not used
171	H	I	H signal input terminal Not used
172	GND1AFE	-	Ground terminal
173	VC	O	Reference voltage (+1.65V) output to the optical pick-up block
174	VREF	-	External capacitor connection terminal for internal band-gap voltage generation
175	RESOUT	-	External resistor connection terminal for internal reference voltage generation
176	GNDREF	-	Ground terminal
177	VDDSAFE	-	Power supply terminal (+3.3V)
178	CD_MD	I	Light amount monitor input from the laser diode of optical pick-up block (for CD)
179	DVD_MD	I	Light amount monitor input from the laser diode of optical pick-up block (for DVD)
180	CD_LD	O	Laser diode on/of control signal output terminal (for CD) “H”: laser diode on
181	DVD_LD	O	Laser diode on/of control signal output terminal (for DVD) “H”: laser diode on
182	FOCUS_PWM	O	Focus coil drive signal output terminal
183	VDDPWM	-	Power supply terminal (+3.3V)
184	TRACK_PWM	O	Tracking coil drive signal output terminal
185	GNDPWM	-	Ground terminal
186	SPDL_PWM	O	Spindle motor drive signal output terminal
187, 188	STB, STA	O	Sled motor drive signal output terminal
189	NC	-	Not used
190	VDDC	-	Power supply terminal (+1.8V)
191	GNDC	-	Ground terminal
192	SEN	I	Clear to send signal input from the master controller
193	REQ	O	Request to send signal output to the master controller
194	DUPTD2 for MASTER	O	Serial data output to the master controller
195	DUPRD2 for MASTER	I	Serial data input from the master controller
196, 197	TP0 for DEBUG, TP1 for DEBUG	-	Not used
198 to 200	MEMDAT10 to MEMDAT12	I/O	Two-way data bus with the flash memory
201	MEMADD0	O	Address signal output to the flash memory
202	MEMCS0#	O	Chip select signal output terminal Not used
203	MEMRD#	O	Read enable signal output to the flash memory
204 to 207	MEMDAT0, MEMDAT8, MEMDAT1, MEMDAT9	I/O	Two-way data bus with the flash memory
208	VDDC	-	Power supply terminal (+1.8V)

AUDIO BOARD IC502 R5F3640MDZ97FB (MASTER CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	NCO	O	Not used
2	SIRCS	I	SIRCS signal input from the remote control receiver
3	MODEL_SEL0	I	Model (Bluetooth) setting terminal "H": Bluetooth is set Fixed at "L" in this set
4	MODEL_SEL1	I	Model setting terminal Fixed at "L" in this set
5	MODEL_SEL2	I	Model (navigation) setting terminal "H": navigation is set Fixed at "L" in this set
6	BYTE	I	External data bus width selection signal input terminal Fixed at "L" (16 bit) in this set
7	FLASH_W	I	Flash writing terminal "L": normally operation mode, "H": writing mode
8	XCIN	I	Low-speed system clock input terminal (32.768 kHz)
9	XCOUT	O	Low-speed system clock output terminal (32.768 kHz)
10	RESET	I	System reset signal input from the reset signal generator and reset switch "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it change to "H"
11	XOUT	O	High-speed system clock output terminal (6 MHz)
12	VSS	-	Ground terminal
13	XIN	I	High-speed system clock input terminal (6 MHz)
14	VCC	-	Power supply terminal (+3.3V)
15	NMI	I	Non-maskable interrupt signal input terminal Fixed at "H" in this set
16	VISUAL_IF	O	Communication start signal output to the visual controller
17	VISUAL_RESET	O	Reset signal output to the visual controller "L": reset
18	VISUAL_POWER	O	Visual power on/off control signal output to the power controller "H": power on
19	REVERSE_IN	I	Reverse shift position detection signal input terminal "L": reverse shift position
20	FSW_OUT	O	External sync signal output to the switching regulator, backlight controller and power controller
21	VOL_ATT	O	Audio muting on/off control signal output to the audio processor "L": muting on
22, 23	NCO	O	Not used
24	ZAPPIN	O	ZAPPIN beep sound output to the audio processor
25	STB	O	Standby signal output to the power amplifier "L": standby
26	BEEP	O	Beep sound output to the power amplifier
27	I2CKO	O	I2C clock signal output to the FM/AM PLL, audio processor, EEPROM and power amplifier
28	I2CSIO	I/O	Two-way I2C data bus with the FM/AM PLL, audio processor, EEPROM and power amplifier
29	FLASH_TX	O	Serial data output to the flash writing connector
30	FLASH_RX	I	Serial data input from the flash writing connector
31	F_CLK	O	Serial data transfer clock signal output terminal at the flash writing mode
32	BUSY	O	Busy signal output terminal at the flash writing mode
33	VISUAL_TX	O	Serial data output to the visual controller
34	VISUAL_RX	I	Serial data input from the visual controller
35	DIAG	I	Diagnostic signal input from the power amplifier
36	NCO	O	Not used
37	CLK-OUT	O	Sub clock signal checking terminal
38	SA_GAIN_ADJUST2	O	Spectrum analyzer data output control signal output to the audio processor and spectrum analyzer controller
39	HOLD	I	External data bus terminal at the flash writing mode Fixed at "L" in this set
40	SA_GAIN_ADJUST1	O	Spectrum analyzer data output control signal output to the audio processor and spectrum analyzer controller
41	BUS/AUX	O	Ground line selection signal output terminal "L": AUX2 mode, "H": SONY bus mode (US and Canadian models only)
42	PARKING_IN	I	Side brake (parking brake) position detection signal input terminal "L": brake on
43	ACCIN	I	Accessory power supply detection signal input terminal "L": accessory power on
44	WRI/WR	I	External data bus terminal at the flash writing mode Fixed at "H" in this set
45	MSTR_TX	O	Serial data output to the DVD processor
46	MSTR_RX	I	Serial data input from the DVD processor
47	A_MUTE	I	Audio muting on/off control signal input from the DVD processor "H": muting on
48	M_RTS	I	Request to send signal input from the DVD processor
49	ATT	O	System muting on/off control signal output terminal "H": muting on
50	BT_AUDIO_SEL	O	Bluetooth selection signal output terminal "L": Bluetooth
51	EXTATT_XEN	O	External input audio muting on/off control signal output terminal "H": muting on
52	Z_MUTE	I	Zero data muting on/off control signal input from the D/A converter "H": muting on
53	SELF_SW	I	Self loading position detection switch input terminal
54	IN_SW	I	Disc insert detection switch input terminal
55	D_SW	I	Chucking end detection switch input terminal

Pin No.	Pin Name	I/O	Description
56	M_RSSET	O	Reset signal output to the DVD processor and flash memory "L": reset
57	M_CTS	O	Clear to send signal output to the DVD processor
58, 59	DST_SEL0, DST_SEL1	I	Destination setting terminal
60	VCC	-	Power supply terminal (+3.3V)
61	DST_SEL2	I	Destination setting terminal
62	VSS	-	Ground terminal
63	NCO	O	Not used
64	ILL_IN	I	Illumination line detection signal input terminal for the automatic dimmer control "L": dimmer on
65	RC_IN1	I	Rotary commander shift key input terminal
66	TEL_ATT	I	Telephone muting detection signal input terminal At input of "H", the audio signal is attenuated by 20 dB
67	EJECT	O	Loading motor drive signal (eject direction) output terminal "H": motor on
68	LOAD	O	Loading motor drive signal (loading direction) output terminal "H": motor on
69	DR_ON	O	Power supply on/off control signal output terminal for loading motor driver "H": power on
70	NCO	O	Not used
71	BT_RSEST	O	Reset signal output terminal for Bluetooth section Not used
72	USB_ON	O	Power supply on/off control signal output terminal for USB section "H": power on
73	BU_IN	I	Back up power supply detection signal input from the SONY bus interface "H": buck up power on (US and Canadian models) Back up power supply detection signal input terminal "H": back up power on (except US and Canadian models)
74	USB_OVER	I	USB over current detection signal input from the switching regulator "L": over current
75	BT_TX	O	Serial data output terminal for Bluetooth section Not used
76	BT_RX	I	Serial data input terminal for Bluetooth section Not used
77	RE_0	I	Jog dial pulse input from the rotary encoder (A phase input) (for volume)
78	RE_1	I	Jog dial pulse input from the rotary encoder (B phase input) (for volume)
79	NCO	O	Not used
80	BT_POWER	O	Power supply on/off control signal output terminal for Bluetooth section Not used
81	BT_ACTIVE	I	Start state checking terminal for Bluetooth section Not used
82	BT_SYSON	O	Start signal output terminal for Bluetooth section Not used
83	VSM	I	FM and AM signal-meter voltage detection signal input from the FM/AM PLL (A/D input)
84	KEY_IN0	I	Front panel key input terminal (A/D input)
85	KEY_IN1	I	Key input terminal (A/D input) Not used
86	RC_IN0	I	Rotary commander key input terminal (A/D input)
87	RCACK	I	Acknowledge signal (wake up signal) input terminal for the rotary commander key entry Acknowledge signal is input to accept any function key in the standby state On at input of "H"
88	KEYACK	I	Acknowledge signal (wake up signal) input terminal for the front panel key entry Acknowledge signal is input to accept any function key in the standby state On at input of "H"
89, 90	NCO	O	Not used
91	MODEL_SEL4	I	Model (4V preout) setting terminal "H": 4V preout is set Fixed at "L" in this set
92	BUS_ON	O	SONY BUS on/off control signal output to the SONY bus interface "L": bus on (US and Canadian models only)
93	SYSRST	O	Reset signal output to the SONY bus interface "L": reset (US and Canadian models only)
94	AVSS	-	Ground terminal
95	MODEL_SEL3	I	Model (other companies navigation) setting terminal "H": other companies navigation is set "L": except E (PAL) and Saudi Arabia models, "H": E (PAL) and Saudi Arabia models
96	VREF	I	Reference voltage (+3.3V) input terminal (for A/D converter)
97	AVCC	-	Power supply terminal (+3.3V)
98	UNISI	I	Serial data input from the SONY bus interface (US and Canadian models only)
99	UNISO	O	Serial data output to the SONY bus interface (US and Canadian models only)
100	UNICKO	O	Serial data transfer clock signal output to the SONY bus interface (US and Canadian models only)

VISUAL BOARD IC1701 TW8816DELA3-GR (VIDEO DECODER)

Pin No.	Pin Name	I/O	Description
1	YIN3	I	Analog YUV video signal (Y) input from the DVD processor
2	YIN2	I	Analog RGB video signal (green) input from the EXT connector for external navigation (E (PAL) and Saudi Arabia models only)
3	YIN1	I	Analog composite video signal input from the CAMERA IN jack
4	YIN0	I	Analog composite video signal input from the AUX1 VIDEO IN jack or AUX2 VIDEO IN jack
5	YGND	-	Ground terminal
6	AGND	-	Ground terminal
7	AVDD1_1.8V	-	Power supply terminal (+1.8V)
8	CIN2	I	Analog video signal input terminal Not used
9	CIN1	I	Analog RGB video signal (blue) input from the EXT connector for external navigation (E (PAL) and Saudi Arabia models only)
10	CIN0	I	Analog YUV video signal (U) input from the DVD processor
11	VIN1	I	Analog RGB video signal (red) input from the EXT connector for external navigation (E (PAL) and Saudi Arabia models only)
12	VIN0	I	Analog YUV video signal (V) input from the DVD processor
13	AVDD33	-	Power supply terminal (+3.3V)
14, 15	SEN0, SEN1	I	Analog sensing signal input terminal Not used
16	COMOUT	O	Analog VCOM signal output terminal Not used
17, 18	LADIN0, LADIN1	I	Low-speed A/D converter signal input terminal Not used
19	AVSS33	-	Ground terminal
20	DAVDDA33	-	Power supply terminal (+3.3V)
21	ROUT	O	Analog RGB video signal (red) output terminal Not used
22	GOUT	O	Analog RGB video signal (green) output terminal Not used
23	BOUT	O	Analog RGB video signal (blue) output terminal Not used
24	DAVSSA33	-	Ground terminal
25	GPIO1	O	Non-input signal detection signal output to the visual controller “L”: non-input signal is detected
26	VDD18	-	Power supply terminal (+1.8V)
27	VSS18	-	Ground terminal
28	FPBIAS	O	Power supply on/off control signal output terminal for flat panel back light bias Not used
29	FPPWC	O	Power supply on/off control signal output terminal for flat panel display Not used
30	FPPWM	O	Dimmer control signal output terminal for flat panel back light Not used
31	TRCLK	O	Row driver shift clock signal output terminal Not used
32	GPIO2	O	Not used
33	TCINV	O	TCON column driver inversion terminal Not used
34	TCPOLP	O	Column driver polarity (positive) terminal Not used
35	TCPOLN	O	Column driver polarity (negative) terminal Not used
36	TCLP	O	Column driver load pulse signal output terminal Not used
37	FPCLK	O	Clock signal output to the video processor
38	FPVS	O	Vertical sync signal output to the video processor
39	VDD33	-	Power supply terminal (+3.3V)
40	FPHS	O	Horizontal sync signal output to the video processor
41	FPDE	O	Data valid signal output terminal for flat panel Not used
42	VSS33	-	Ground terminal
43, 44	FPR0, FPR1	O	Digital RGB video signal (red) output terminal Not used
45, 46	FPR2, FPR3	O	Digital RGB video signal (red) output to the video processor
47	VSS18	-	Ground terminal
48	VDD18	-	Power supply terminal (+1.8V)
49 to 52	FPR4 to FPR7	O	Digital RGB video signal (red) output to the video processor
53	VDD33	-	Power supply terminal (+3.3V)
54, 55	FPG0, FPG1	O	Digital RGB video signal (green) output terminal Not used
56, 57	FPG2, FPG3	O	Digital RGB video signal (green) output to the video processor
58	VSS33	-	Ground terminal
59 to 62	FPG4 to FPG7	O	Digital RGB video signal (green) output to the video processor
63, 64	FPB0, FPB1	O	Digital RGB video signal (blue) output terminal Not used
65, 66	FPB2, FPB3	O	Digital RGB video signal (blue) output to the video processor
67	VDD33	-	Power supply terminal (+3.3V)
68 to 71	FPB4 to FPB7	O	Digital RGB video signal (blue) output to the video processor

Pin No.	Pin Name	I/O	Description
72	VSS33	-	Ground terminal
73	MCU_EN	I	MCU enable signal input terminal Not used
74	XTAL27O	O	System clock output terminal (27 MHz)
75	XTAL27I	I	System clock input terminal (27 MHz)
76	RST	I	Reset signal input from the visual controller "L": reset
77	TEST	I	Test terminal
78	PWRDN	I	Power down signal input terminal Not used
79	SDAT	I/O	Two-way I2C data bus with the visual controller
80	SCLK	I	I2C clock signal input from the visual controller
81	VDD18	-	Power supply terminal (+1.8V)
82	VSS18	-	Ground terminal
83, 84	DTV0 (NC), DTV1 (NC)	I	Digital television signal input terminal Not used
85 to 90	DTV2 (B0) to DTV7 (B5)	I	Digital television signal input terminal Not used
91, 92	DTV8 (NC), DTV9 (NC)	I	Digital television signal input terminal Not used
93 to 98	DTV10 (G0) to DTV15 (G5)	I	Digital television signal input terminal Not used
99, 100	DTV16 (NC), DTV17 (NC)	I	Digital television signal input terminal Not used
101	DTV18 (R0)	I	Digital television signal input terminal Not used
102	VDD33	-	Power supply terminal (+3.3V)
103	VSS33	-	Ground terminal
104 to 108	DTV19 (R1) to DTV23 (R5)	I	Digital television signal input terminal Not used
109	VDD18	-	Power supply terminal (+1.8V)
110	VSS18	-	Ground terminal
111	DTVCLK	I	Clock signal input terminal for DTV interface Not used
112	DTVDE	I/O	Data valid signal input/output terminal for DTV interface Not used
113	DTVHS	I/O	Horizontal sync signal input/output terminal for DTV interface Not used
114	DTVVS	I/O	Vertical sync signal input/output terminal for DTV interface Not used
115	VSYNC	I	Vertical sync signal input terminal Not used
116	CSYNC	I	CSYNC signal input from the EXT connector for external navigation (E (PAL) and Saudi Arabia models only)
117	SSVDD18	-	Power supply terminal (+1.8V)
118	SSVSS18	-	Ground terminal
119	VDDD18	-	Power supply terminal (+1.8V)
120	VSSD18	-	Ground terminal
121	LVDDA18	-	Power supply terminal (+1.8V)
122	LVSSA18	-	Ground terminal
123	AGND3	-	Ground terminal
124, 125	AVDD3_1.8V, AVDD2_1.8V	-	Power supply terminal (+1.8V)
126	AGND2	-	Ground terminal
127	YOUT	O	Analog video signal (Y) output terminal Not used
128	SOYIN	I	Sync signal on analog YUV video signal (Y) input terminal

VISUAL BOARD IC2001 RF3640DDZ95FB (VISUAL CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VCOM_AMP	O	VCOM amplitude voltage control signal output terminal
2	VCOM_BIAS	O	VCOM bias voltage control signal output terminal
3	NCO	O	Not used
4	SPEED_IN	I	Speed pulse input terminal Not used
5	NCO	O	Not used
6	BYTE	I	External data bus width selection signal input terminal Fixed at “L” (16 bit) in this set
7	FLASH_W	I	Flash writing terminal “L”: normally operation mode, “H”: writing mode
8	XCIN	I	Low-speed system clock input terminal Not used
9	XCOUT	O	Low-speed system clock output terminal Not used
10	RESET	I	Reset signal input from the master controller and reset signal generator “L”: reset
11	XOUT	O	High-speed system clock output terminal (6 MHz)
12	VSS	-	Ground terminal
13	XIN	I	High-speed system clock input terminal (6 MHz)
14	VCC1	-	Power supply terminal (+3.3V)
15	NMI	I	Non-maskable interrupt signal input terminal Fixed at “H” in this set
16	MASTER_IF	I	Communication start signal input from the master controller
17	CPV	I	Vertical sync signal input from the video processor
18	PHOTO	I	Monitor open/close photo detection signal input terminal Not used
19	NCO	O	Not used
20	VISUAL_RX	I	Serial data input from the master controller
21	NCO	O	Not used
22	VISUAL_TX	O	Serial data output to the master controller
23	BT_IND	O	LED drive signal output terminal for Bluetooth indicator Not used
24	KEY_PWM	O	LED drive signal output terminal for front panel key illumination
25	BL_ENA	O	LED drive signal output to the backlight controller for liquid crystal display back light “H”: LED on
26	BL_PWM	O	Dimmer control signal output to the backlight controller for liquid crystal display back light
27	I2CKO	O	I2C clock signal output to the video decoder
28	I2SIO	I/O	Two-way I2C data bus with the video decoder
29	FLASH_TX	O	Serial data output to the flash writing connector
30	FLASH_RX	I	Serial data input from the flash writing connector
31	F_CLK	O	Serial data transfer clock signal output terminal at the flash writing mode
32	BUSY	O	Busy signal output terminal at the flash writing mode
33	NAVI_TX	O	Serial data output to the EXT connector for external navigation (E (PAL) and Saudi Arabia models only)
34	NAVI_RX	I	Serial data input from the EXT connector for external navigation (E (PAL) and Saudi Arabia models only)
35	NAVI_DET	I	External navigation detection signal input terminal “L”: navigation is detected (E (PAL) and Saudi Arabia models only)
36	NAVI_RTS	O	Request to send signal output terminal for navigation Not used
37	BL_STATUSP	I	Power converter status input from the backlight controller
38	BL_STATUSL	I	LED operation status input from the backlight controller
39	HOLD	I	External data bus terminal at the flash writing mode Fixed at “L” in this set
40	DEC_GPIO_1	I	Non-input signal detection signal input from the video decoder “L”: non-input signal is detected
41	DEC_GPIO_2	O	Not used
42	DEC_RST	O	Reset signal output to the video decoder “L”: reset
43	NCO	O	Not used
44	WRI/WR	I	External data bus terminal at the flash writing mode Fixed at “H” in this set
45 to 47	NCO	O	Not used
48	NAVI_CTS	I	Clear to send signal input terminal for navigation Not used
49	MOTOR_ON	O	Power supply on/off control signal output terminal for monitor open/close motor driver Not used
50	NCO	O	Not used
51	M_LOW	O	Monitor open/close speed (low) control signal output terminal Not used
52	M_MID	O	Monitor open/close speed (middle) control signal output terminal Not used
53	OPEN	I	Monitor open detection switch input terminal
54	CLOSE	I	Monitor close detection switch input terminal
55	MOTOR+	O	Monitor open/close motor drive signal (forward direction) output terminlal Not used
56	MOTOR–	O	Monitor open/close motor drive signal (reverse direction) output terminal Not used

Pin No.	Pin Name	I/O	Description
57 to 59	NCO	O	Not used
60	VCC2	-	Power supply terminal (+3.3V)
61	DISPON	O	Power supply on/off control signal output terminal for liquid crystal display Not used
62	VSS	-	Ground terminal
63	V_MUTE	O	Video muting on/off control signal output to the video amplifier for REAR VIDEO OUT “L”: muting on
64	VSW_0	O	Video signal selection signal output to the video amplifier “L”: DVD, “H”: AUX
65	NCO	O	Not used
66	AUX_SEL	O	AUX video signal selection signal output to the video selector “L”: AUX1, “H”: AUX2
67	SYNC_SEL	O	Sync selection signal output terminal Not used
68, 69	NCO	O	Not used
70	NCO (PND)	O	Not used
71	NAVI_RST	O	Reset signal output terminal for external navigation section Not used
72	NAVI_POW_ON	O	Power supply on/off control signal output terminal for external navigation section Not used
73, 74	NCO	O	Not used
75	GERDA_TX	O	Serial data output to the video processor
76	GERDA_RX	I	Serial data input from the video processor
77	GERDA_RST	O	Reset signal output to the video processor and flash memory “L”: reset
78	GERDA_IF	O	Communication start signal output to the video processor
79 to 81	NCO	O	Not used
82	TP_Y	I	Y axis input from the touch panel switch
83	TP_X	I	X axis input from the touch panel switch
84	TEMP	I	Temperature detection signal input terminal
85	I_DET	I	Monitor open/close motor drive current detection signal input terminal Not used
86	SA_IN	I	Spectrum analyzer level input from the spectrum analyzer controller
87 to 89	SA_A, SA_B, SA_C	O	Spectrum analyzer level frequency selection signal output to the spectrum analyzer controller
90	NCO	O	Not used
91	TP_WAIT	O	Touch panel wait signal output terminal
92	X_SEL	O	X axis selection signal output terminal for touch panel switch
93	Y_SEL	O	Y axis selection signal output terminal for touch panel switch
94	AVSS	-	Ground terminal
95	DOOR_IND	O	LED drive signal output terminal for disc slot indicator Not used
96	VREF	I	Reference voltage (+3.3V) input terminal (for A/D converter)
97	AVCC	-	Power supply terminal (+3.3V)
98 to 100	NCO	O	Not used

VISUAL BOARD IC2201 MN103SH23UB (VIDEO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	OSCXO	O	System clock output terminal (33 MHz)
2	OSCXI	I	System clock input terminal (33 MHz)
3 to 7	SDRA3, SDRA4, SDRA2, SDRA5, SDRA1	O	Address signal output to the SD-RAM
8	VSS	-	Ground terminal
9	SDRA6	O	Address signal output to the SD-RAM
10	VDD	-	Power supply terminal (+3.3V)
11, 12	SDRA0, SDRA7	O	Address signal output to the SD-RAM
13	VDDI	-	Power supply terminal (+1.2V)
14, 15	SDRA10, SDRA8	O	Address signal output to the SD-RAM
16	SDRBA1	O	Bank address signal output to the SD-RAM
17	SDRA9	O	Address signal output to the SD-RAM
18	VSS	-	Ground terminal
19	VDD	-	Power supply terminal (+3.3V)
20	SDRBA0	O	Bank address signal output to the SD-RAM
21	SDRA11	O	Address signal output to the SD-RAM
22	NSDRCS	O	Chip select signal output to the SD-RAM
23	SDRA12	O	Address signal output to the SD-RAM
24	NSDRRAS	O	Row address select signal output to the SD-RAM
25	SDRCKE	O	Clock enable signal output to the SD-RAM
26	NSDRCAS	O	Column address select signal output to the SD-RAM
27	SDCKI	I	Clock signal input from the SDRCKO (pin 30)
28	VDD	-	Power supply terminal (+3.3V)
29	VSS	-	Ground terminal
30	SDRCKO	O	Clock signal output to the SDCKI (pin 27) and SD-RAM
31	NSDRWE	O	Write enable signal output to the SD-RAM
32	SDRDQM1	O	Data mask signal output to the SD-RAM (upper byte)
33	SDRDQM0	O	Data mask signal output to the SD-RAM (lower byte)
34 to 37	SDRD8, SDRD7, SDRD9, SDRD6	I/O	Two-way data bus with the SD-RAM
38	VDD	-	Power supply terminal (+3.3V)
39	VSS	-	Ground terminal
40 to 48	SDRD10, SDRD5, SDRD11, SDRD4,SDRD12, SDRD3, SDRD13, SDRD2, SDRD14	I/O	Two-way data bus with the SD-RAM
49	VDD	-	Power supply terminal (+3.3V)
50	VSS	-	Ground terminal
51	VDDI	-	Power supply terminal (+1.2V)
52 to 54	SDRD1, SDRD15, SDRD0	I/O	Two-way data bus with the SD-RAM
55	NRST	I	Reset signal input from the visual controller “L”: reset
56	NMI	I	Non-maskable interrupt signal input terminal Fixed at “H” in this set
57	LCDICLK	I	Clock signal input terminal Not used
58	TSTC0	I	Test signal input terminal Fixed at “L” in this set
59	TSTCK	I	Test signal input terminal Fixed at “L” in this set
60	VSS	-	Ground terminal
61, 62	TSTC1, TSTC2	I	Test signal input terminal Fixed at “L” in this set
63	PINMD1	I	Mode signal input terminal Fixed at “L” in this set
64	SDATA	I/O	Two-way data bus terminal for debug
65	VSS	-	Ground terminal
66	VDD	-	Power supply terminal (+3.3V)
67	SCLOCK	I	Clock signal input terminal for debug
68	PINMD0	I	Mode signal input terminal Fixed at “L” in this set
69	VDDI	-	Power supply terminal (+1.2V)
70, 71	NFRCS0, NFRCS1	O	Chip enable signal output to the flash memory
72	NFRWE	O	Write enable signal output to the flash memory
73	VSS	-	Ground terminal

Pin No.	Pin Name	I/O	Description
74	VDD	-	Power supply terminal (+3.3V)
75	NFROE	O	Output enable signal output to the flash memory
76 to 83	FAD0 to FAD7	O	Address signal output to the flash memory
84	VSS	-	Ground terminal
85	VDD	-	Power supply terminal (+3.3V)
86 to 93	FAD8 to FAD15	O	Address signal output to the flash memory
94	PVPPDRAM	-	Internal D-RAM monitor terminal
95	VDD	-	Power supply terminal (+3.3V)
96	VSS	-	Ground terminal
97	AVDDR	-	Power supply terminal (+3.3V)
98 to 102	FAD16 to FAD20	O	Address signal output to the flash memory
103	VDDI	-	Power supply terminal (+1.2V)
104, 105	FAD21, FAD22	O	Address signal output to the flash memory
106	VDDI	-	Power supply terminal (+1.2V)
107	VDD	-	Power supply terminal (+3.3V)
108	VSS	-	Ground terminal
109 to 119	FDATA0 to FDATA10	I/O	Two-way data bus with the flash memory
120	VDD	-	Power supply terminal (+3.3V)
121	VSS	-	Ground terminal
122 to 126	FDATA11 to FDATA15	I/O	Two-way data bus with the flash memory
127	GPIO0 (OE)	O	Output enable signal output to the liquid crystal display
128	GPIO1 (NOR_W)	I	Flash writing terminal “L”: normally operation mode, “H”: writing mode
129	GPIO2 (NC)	I/O	Not used
130	GPIO3 (GERDA_IF)	I	Communication start signal input from the visual controller
131	GPIO4 (RX)	I	Serial data input from the visual controller
132	GPIO5 (TX)	O	Serial data output to the visual controller
133	GPIO6 (DEBUG-RX)	I	Serial data input from the flash writing connector
134	VSS	-	Ground terminal
135	VDD	-	Power supply terminal (+3.3V)
136	GPIO7 (DEBUG-TX)	O	Serial data output to the flash writing connector
137	GPIO8 (LOAD)	O	LOAD signal output to the liquid crystal display
138	GPIO9 (POLC)	I/O	Not used
139 to 144	DVOB0 to DVOB5	I	Digital RGB video signal (blue) input from the video decoder
145	VDDI	-	Power supply terminal (+1.2V)
146 to 151	DVOG0 to DVOG5	I	Digital RGB video signal (green) input from the video decoder
152 to 154	DVOR0 to DVOR2	I	Digital RGB video signal (red) input from the video decoder
155	VSS	-	Ground terminal
156	DVOR3	I	Digital RGB video signal (red) input from the video decoder
157	VDD	-	Power supply terminal (+3.3V)
158, 159	DVOR4, DVOR5	I	Digital RGB video signal (red) input from the video decoder
160	DVOCLK	I	Clock signal input from the video decoder
161	DVOVSY	I	Vertical sync signal input from the video decoder
162	DVOHSY	I	Horizontal sync signal input from the video decoder
163	CMPAOUT	O	External capacitor connection terminal for comparator low-pass filter
164	AVOIREF	O	External resistor connection terminal for A/D converter bias
165	AVOVREFH	O	Reference voltage output terminal
166	AVOVREFL	O	Reference voltage output terminal
167	AVOVCMO	O	Reference voltage output terminal
168	AVOINA	I	Analog video signal input terminal Not used
169	AVDDA	-	Power supply terminal (+3.3V)
170	AVOINB	I	Analog composite video signal input from the DVD processor
171	AVSSA	-	Ground terminal
172	AV1VREFH	O	Reference voltage output terminal
173	AV1VREFL	O	Reference voltage output terminal
174	AV1VCMO	O	Reference voltage output terminal

Pin No.	Pin Name	I/O	Description
175	AV1IN	I	Analog composite video signal input from the AUX1 VIDEO IN jack
176	AVDDA2	-	Power supply terminal (+3.3V)
177	AV2VREFH	O	Reference voltage output terminal
178	AV2VREFL	O	Reference voltage output terminal
179	AVSSA2	-	Ground terminal
180	AV2VCMO	O	Reference voltage output terminal
181	AV2IN	I	Analog composite video signal input from the AUX2 VIDEO IN jack
182	AVDDP	-	Power supply terminal (+3.3V)
183	TSTIO (NC)	I/O	Internal PLL inspection terminal Not used
184	AVSSP	-	Ground terminal
185 to 188	LCDOB0 to LCDOB3	O	Digital RGB video signal (blue) output to the liquid crystal display
189	VSS	-	Ground terminal
190	VDD	-	Power supply terminal (+3.3V)
191, 192	LCDOB4, LCDOB5	O	Digital RGB video signal (blue) output to the liquid crystal display
193 to 195	LCDOG0 to LCDOG2	O	Digital RGB video signal (green) output to the liquid crystal display
196	VDDI	-	Power supply terminal (+1.2V)
197 to 199	LCDOG3 to LCDOG5	O	Digital RGB video signal (green) output to the liquid crystal display
200	VSS	-	Ground terminal
201	VDD	-	Power supply terminal (+3.3V)
202 to 207	LCDOR0 to LCDOR5	O	Digital RGB video signal (red) output to the liquid crystal display
208	LCDOC0	O	Horizontal sync signal output to the liquid crystal display
209	LCDOC1	O	Vertical sync signal output to the visual controller and liquid crystal display
210	VDD	-	Power supply terminal (+3.3V)
211	VSS	-	Ground terminal
212	LCDOC2	O	Voltage control signal output to the liquid crystal display
213	LCDOC3 (POLS)	O	Polarity inversion control output terminal
214	LCDOCLK	O	Clock signal output to the liquid crystal display
215	LCDOC4 (NPOLS)	O	Polarity non-inversion control output terminal
216	N.C.	-	Not used

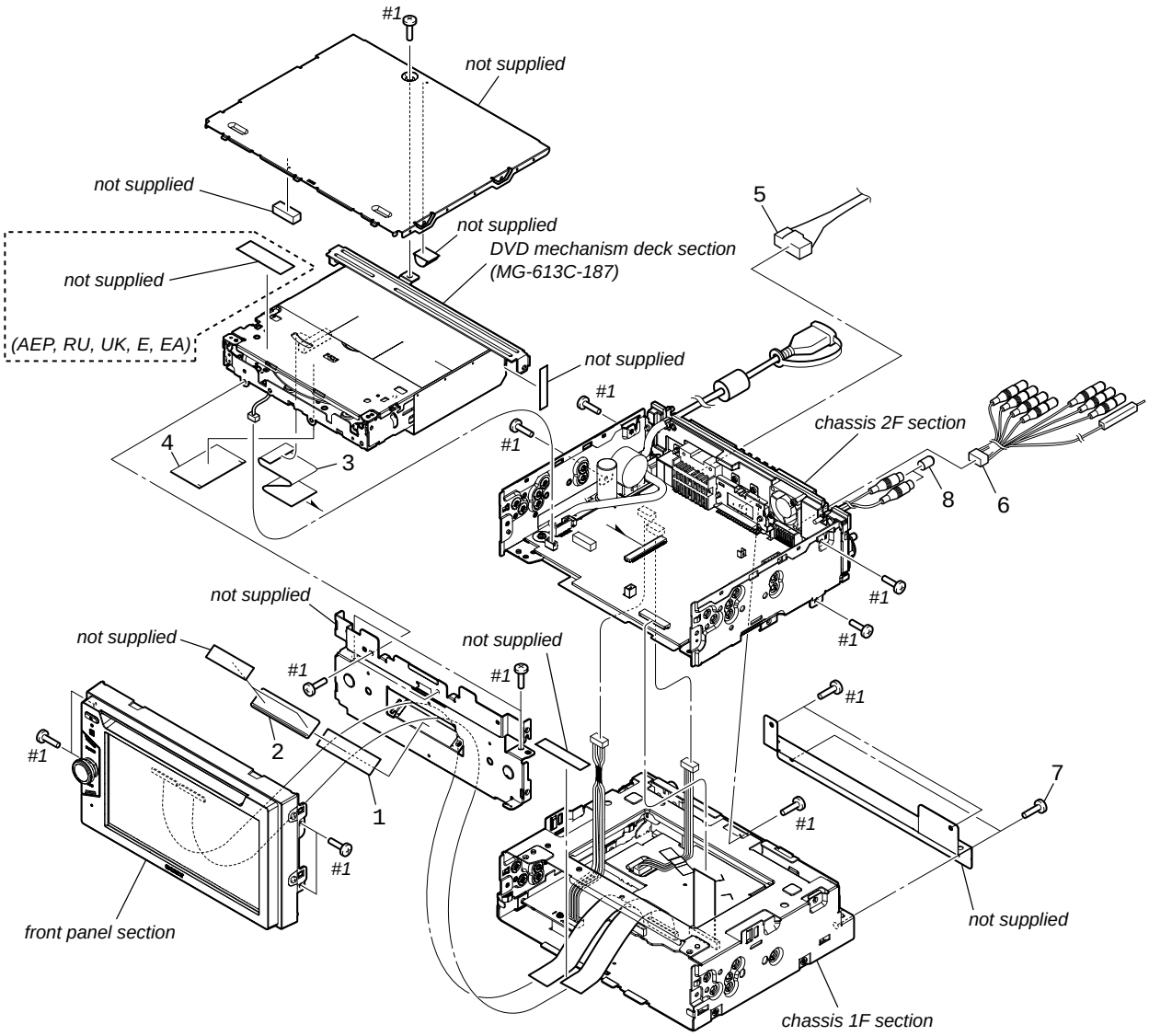
SECTION 6
EXPLODED VIEWS

Note:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  RU : Russian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

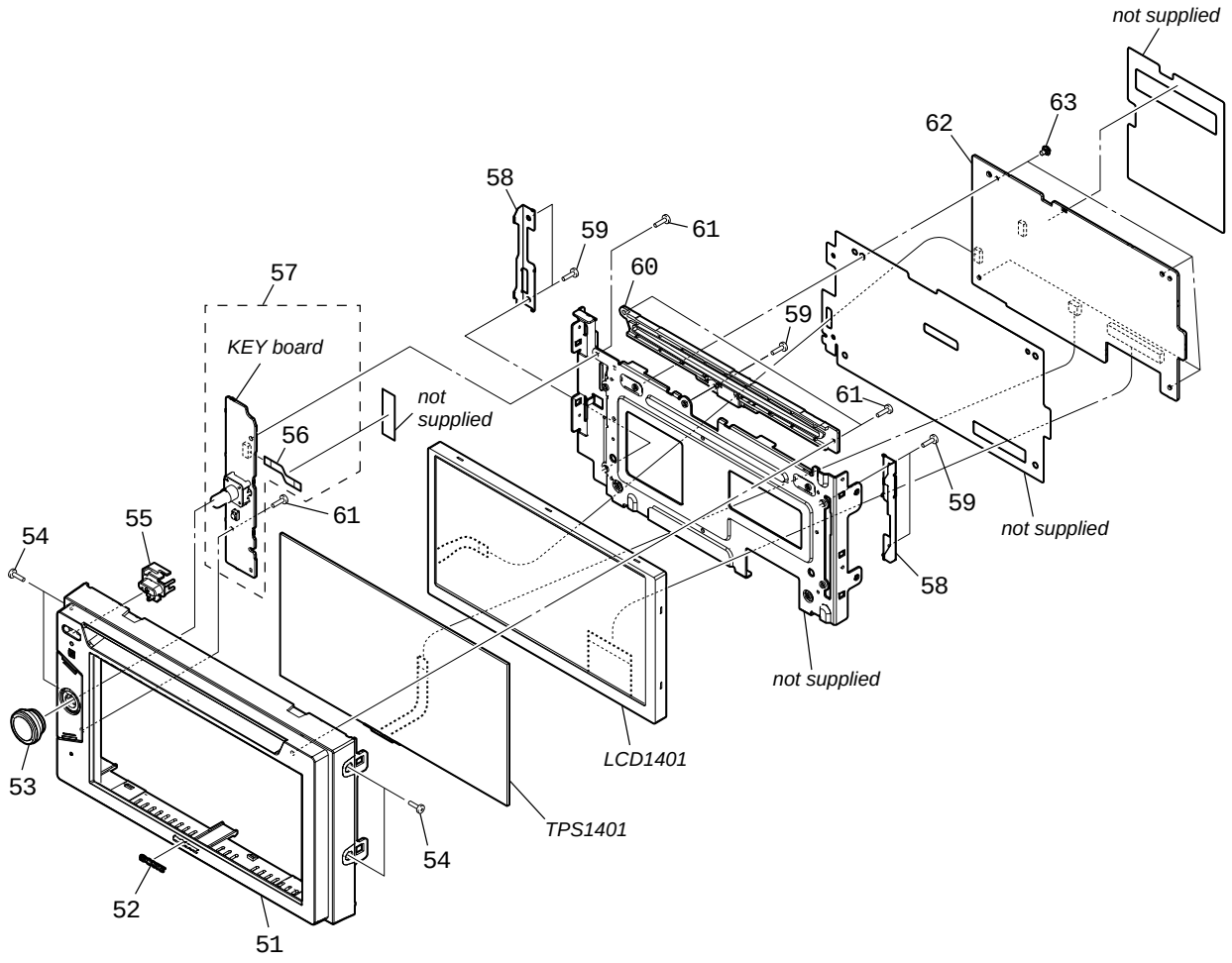
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark
1	4-157-047-01	ADHESIVE (FPC)	
2	1-481-687-11	CORE, FERRITE	
3	1-837-116-31	CABLE, FLEXIBLE FLAT (60 CORE)	
4	4-174-075-01	COVER (FFC)	
5	1-828-543-11	CORD (WITH CONNECTOR) (POWER CORD (ISO)) (AEP, RU, UK)	
5	1-834-204-21	CONNECTION CODE FOR AUTOMOBILE (POWER CORD) (US, CND, E, EA)	
6	1-837-303-12	CORD, CONNECTION (16P) (REVERSE IN/ AUX1 AUDIO IN/FRONT AUDIO OUT/ REAR AUDIO OUT/SUB OUT)	
7	2-892-795-01	SCREW +Z S2.6X4	
8	3-264-798-01	CAP	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	

6-2. FRONT PANEL SECTION

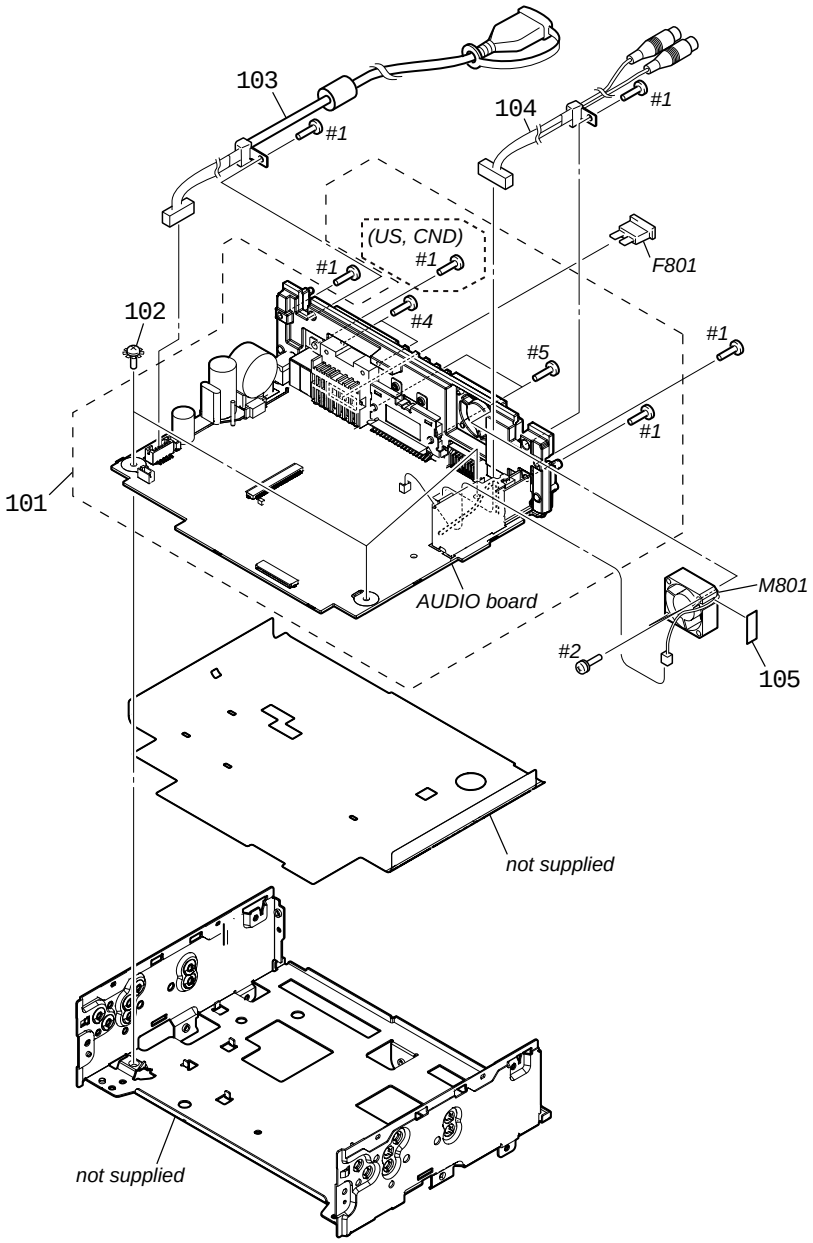


Note: When replacing the liquid crystal display panel (LCD1401), refer to "NOTE OF REPLACING THE LIQUID CRYSTAL DISPLAY PANEL (LCD1401)" on page 4.

Ref. No.	Part No.	Description	Remark
51	X-2514-951-1	PANEL (FRONT 6) ASSY (AEP, UK, E, EA)	
51	X-2515-562-1	PANEL (FRONT 6) ASSY (RU)	
51	X-2515-563-1	PANEL (FRONT 6) ASSY (US, CND)	
52	3-251-320-01	EMBLEM (NO. 2.5), SONY	
53	X-2547-041-2	KNOB (SV) ASSY	
54	4-157-049-01	SCREW +Z S1.7X4	
55	4-148-647-01	BUTTON (EJECT)	
56	1-837-118-21	CABLE, FLEXIBLE FLAT (10 CORE)	
57	A-1748-266-A	KEY BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
58	4-148-658-01	BRACKET (LCD 6)	
59	2-895-937-01	SCREW (M2X2.5), SERRATION	
60	X-2514-953-1	GUIDE (CD 6) ASSY	
61	3-250-543-21	SCREW (+B P-TITE M2)	
62	A-1748-275-A	LCD BOARD, COMPLETE	
63	2-892-797-02	SCREW +PTW M2	
LCD1401	1-811-003-11	DISPLAY PANEL, LIQUID CRYSTAL	
TPS1401	1-811-004-11	TOUCH PANEL	

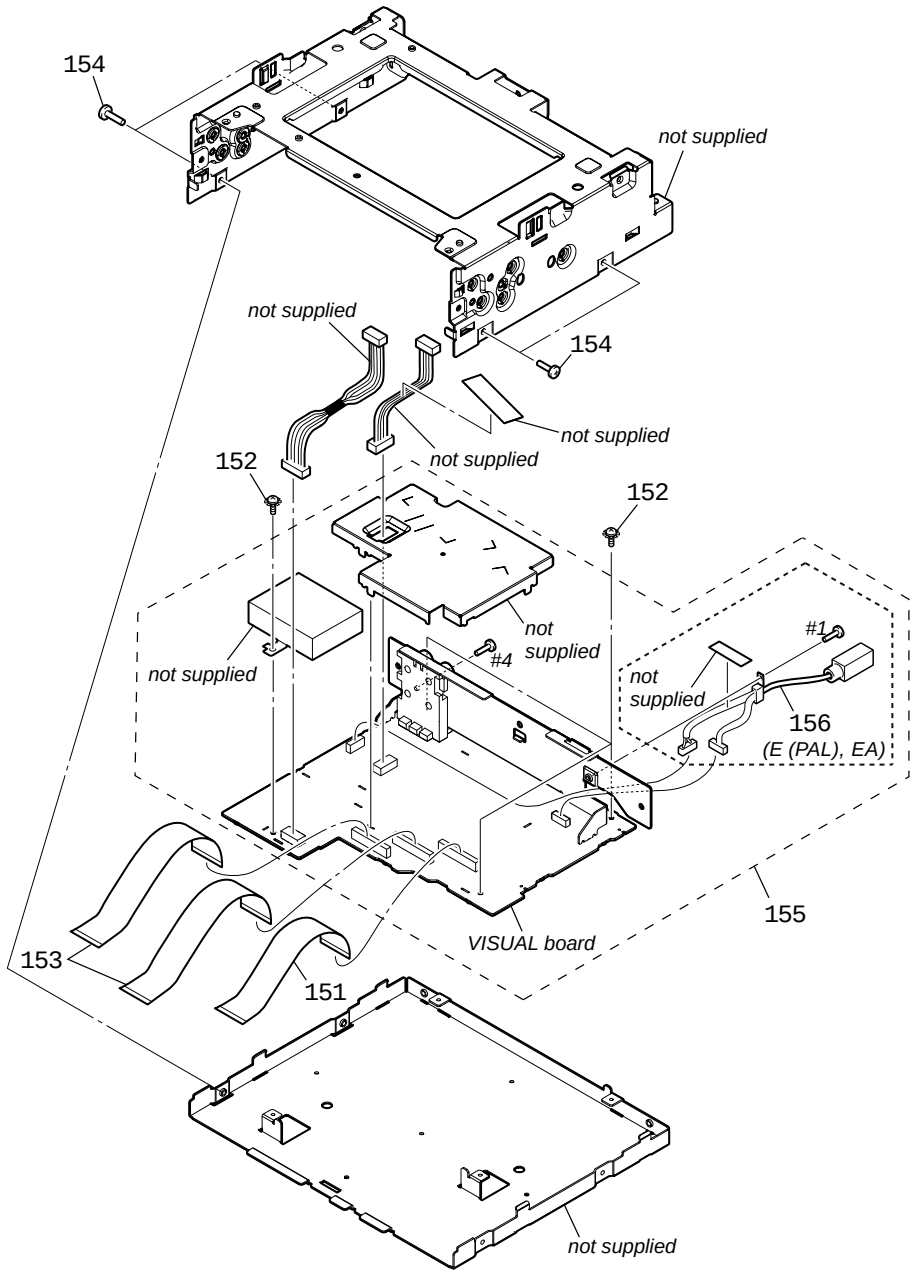
6-3. CHASSIS 2F SECTION



Ref. No.	Part No.	Description	Remark
101	A-1748-261-A	AUDIO BOARD, COMPLETE (E (PAL), EA)	
101	A-1748-262-A	AUDIO BOARD, COMPLETE (RU)	
101	A-1748-263-A	AUDIO BOARD, COMPLETE (US, CND)	
101	A-1748-264-A	AUDIO BOARD, COMPLETE (AEP, UK)	
101	A-1748-265-A	AUDIO BOARD, COMPLETE (E (NTSC))	
102	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
103	1-837-307-11	CONNECTION CORD FOR AUTOMOBILE (USB)	
104	1-833-835-41	CONNECTION CORD FOR AUTOMOBILE (AUX2 AUDIO IN)	

Ref. No.	Part No.	Description	Remark
105	2-686-869-01	SHEET (GPS WIRE)	
F801	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)	
M801	1-787-764-11	FAN, DC	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-628-254-90	SCREW +PS 2.6X14	
#4	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#5	7-685-795-09	SCREW +PTT 2.6X12 (S)	

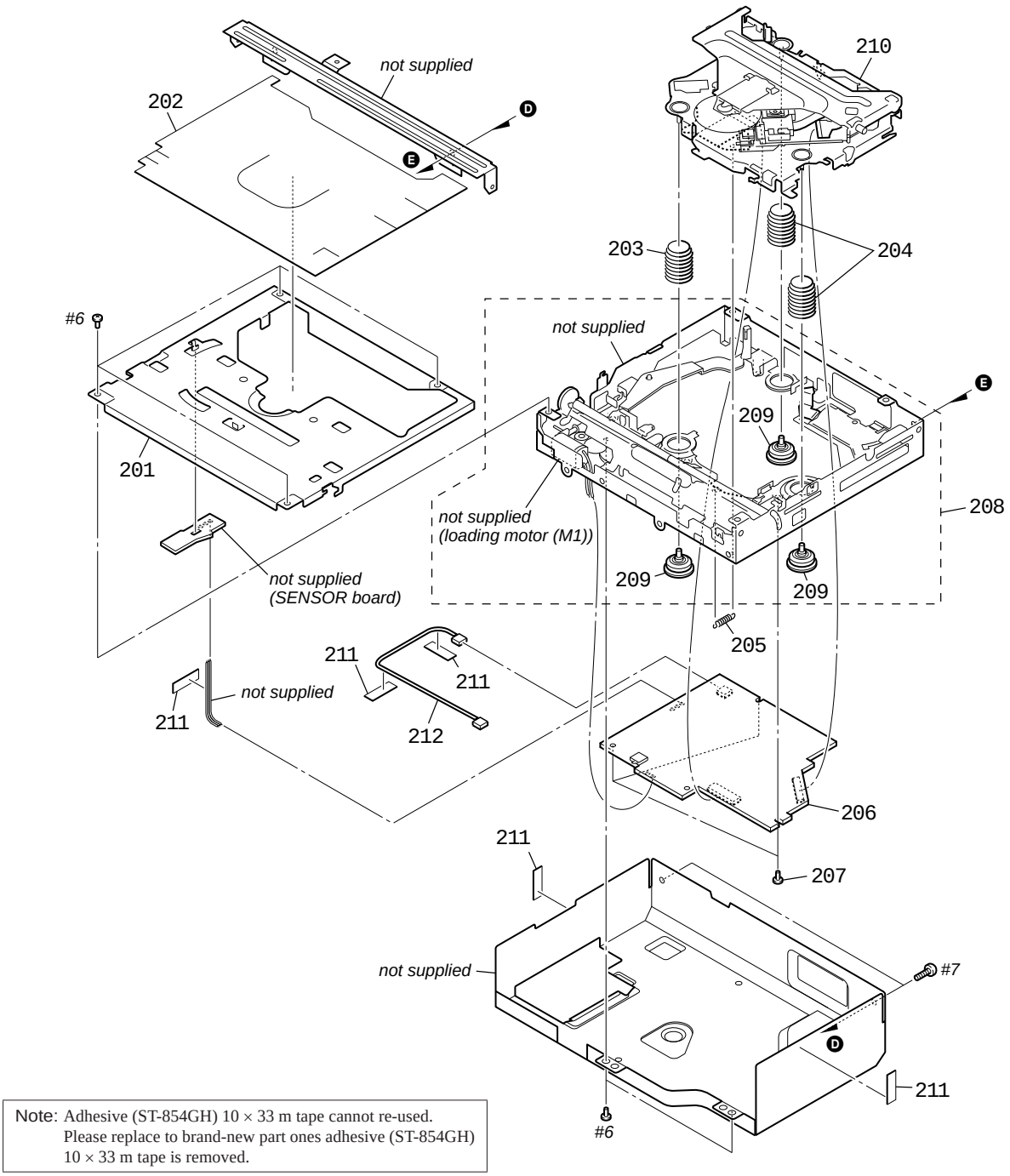
6-4. CHASSIS 1F SECTION



Ref. No.	Part No.	Description	Remark
151	1-837-115-21	CABLE, FLEXIBLE FLAT (40 CORE)	
152	2-894-799-01	SCREW +PTW S2X5	
153	1-837-119-21	CABLE, FLEXIBLE FLAT (40 CORE)	
154	2-892-795-01	SCREW +Z S2.6X4	
155	A-1748-259-A	VISUAL BOARD, COMPLETE (E (PAL), EA)	
155	A-1748-260-A	VISUAL BOARD, COMPLETE (EXCEPT E (PAL), EA)	

Ref. No.	Part No.	Description	Remark
156	1-837-305-11	CONNECTION CORD FOR AUTOMOBILE (EXT) (E (PAL), EA)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#4	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	

6-5. DVD MECHANISM DECK SECTION (MG-613C-187)



Note: Adhesive (ST-854GH) 10 × 33 m tape cannot re-used.
Please replace to brand-new part ones adhesive (ST-854GH) 10 × 33 m tape is removed.

Ref. No.	Part No.	Description	Remark
201	A-1211-766-B	CHASSIS (T612Z) SUB ASSY	
202	2-583-629-21	SHEET, DUST PROTECTION	
203	2-893-930-01	SPRING (DAMPER, Z), COMPRESSION	
204	3-257-892-01	SPRING (DAMPER), COIL	
205	2-188-954-11	SPRING (KF), TENSION	
206	A-1732-272-A	SERVO BOARD, COMPLETE	
207	4-162-647-01	SCREW, TOOTHED LOCK +Z M1.7X2.5	
208	A-1732-663-A	CHASSIS (M613) COMPLETE ASSY (Including loading motor (M1))	
209	3-253-748-11	DAMPER (S)	
⚠ 210	A-1560-594-B	CHASSIS (OP, ZA) COMPLETE ASSY (Including optical pick-up (KHS-360A))	
211	7-600-028-44	TAPE, ADHESIVE (ST-854GH) 10X33 m	
212	1-838-748-11	CORD WITH CONNECTOR	
#6	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
#7	7-685-791-01	SCREW +PTT 2.6X5 (S)	

SECTION 7
ELECTRICAL PARTS LIST

Note:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  RU : Russian model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
	A-1748-261-A	AUDIO BOARD, COMPLETE (E (PAL), EA)			
	A-1748-262-A	AUDIO BOARD, COMPLETE (RU)			
	A-1748-263-A	AUDIO BOARD, COMPLETE (US, CND)			
	A-1748-264-A	AUDIO BOARD, COMPLETE (AEP, UK)			
	A-1748-265-A	AUDIO BOARD, COMPLETE (E (NTSC))			
		**********			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-792-09	SCREW +PTT 2.6X6 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< CAPACITOR >			
C1	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C6	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C8	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C9	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C12	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C13	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V
C14	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C15	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C16	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C17	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C18	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C19	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C20	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C21	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C22	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C24	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C26	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C27	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C28	1-124-589-11	ELECT	47uF	20%	16V
C31	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C32	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (US, CND)
C102	1-114-181-11	ELECT CHIP	220uF	20%	6.3V
C103	1-114-181-11	ELECT CHIP	220uF	20%	6.3V
C104	1-126-176-11	ELECT	220uF	20%	10V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C107	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C112	1-126-518-11	ELECT	470uF	20%	4V

Ref. No.	Part No.	Description			Remark
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C116	1-124-589-11	ELECT	47uF	20%	16V
C117	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C119	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C301	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C302	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C303	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C304	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C305	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C307	1-100-381-11	ELECT CHIP	10uF	20%	16V
C308	1-100-381-11	ELECT CHIP	10uF	20%	16V
C309	1-100-381-11	ELECT CHIP	10uF	20%	16V
C310	1-100-381-11	ELECT CHIP	10uF	20%	16V
C312	1-104-951-11	ELECT	10uF	20%	16V
C313	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C314	1-104-955-11	ELECT	100uF	20%	10V
C315	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C316	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C317	1-104-951-11	ELECT	10uF	20%	16V
C318	1-100-381-11	ELECT CHIP	10uF	20%	16V
C319	1-100-381-11	ELECT CHIP	10uF	20%	16V
C320	1-100-381-11	ELECT CHIP	10uF	20%	16V
C321	1-100-381-11	ELECT CHIP	10uF	20%	16V
C322	1-126-160-11	ELECT	1uF	20%	50V
C324	1-104-951-11	ELECT	10uF	20%	16V
C325	1-104-951-11	ELECT	10uF	20%	16V
C326	1-126-160-11	ELECT	1uF	20%	50V
C327	1-124-257-00	ELECT	2.2uF	20%	50V
C328	1-126-160-11	ELECT	1uF	20%	50V
C336	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (US, CND)
C343	1-126-160-11	ELECT	1uF	20%	50V (E (PAL), EA)
C361	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C362	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C363	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C364	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C365	1-124-257-00	ELECT	2.2uF	20%	50V
C366	1-126-160-11	ELECT	1uF	20%	50V
C367	1-126-160-11	ELECT	1uF	20%	50V
C375	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C376	1-162-923-11	CERAMIC CHIP	47PF	5%	50V

Ref. No.	Part No.	Description			Remark
C381	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C382	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C383	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C384	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C385	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C388	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C401	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C402	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C404	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C507	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C521	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C522	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C525	1-125-972-61	ELECT	100uF	20%	16V
C526	1-126-926-11	ELECT	1000uF	20%	10V
C527	1-128-057-11	ELECT	330uF	20%	6.3V
C528	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C529	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C530	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C601	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C608	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C611	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C614	1-100-671-11	CERAMIC CHIP	4.7uF	20%	25V
C615	1-165-733-91	ELECT	100uF	20%	25V
C616	1-100-912-11	CERAMIC CHIP	1uF	10%	25V
C617	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C618	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C620	1-126-941-11	ELECT	470uF	20%	25V (US, CND)
C621	1-165-319-11	CERAMIC CHIP	0.1uF		50V (US, CND)
C622	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (US, CND)
C627	1-126-935-11	ELECT	470uF	20%	16V
C628	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C629	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C632	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C633	1-125-972-61	ELECT	100uF	20%	16V
C634	1-125-972-61	ELECT	100uF	20%	16V
C725	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E (PAL), EA)
C726	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E (PAL), EA)
C801	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V
C802	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V
C803	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C804	1-112-839-11	ELECT	4700uF	20%	16V
C805	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C807	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C808	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C809	1-126-098-11	ELECT	22uF	20%	35V
C810	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C811	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C812	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C813	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C814	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C815	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C816	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C817	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C818	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C819	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C820	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C821	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C822	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C824	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C825	1-124-589-11	ELECT	47uF	20%	16V
C826	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C827	1-124-589-11	ELECT	47uF	20%	16V
C828	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C829	1-124-233-11	ELECT	10uF	20%	16V
C830	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C831	1-124-589-11	ELECT	47uF	20%	16V
C832	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C833	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C834	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C835	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C836	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C837	1-126-163-11	ELECT	4.7uF	20%	50V
C839	1-124-233-11	ELECT	10uF	20%	16V
C841	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C842	1-124-589-11	ELECT	47uF	20%	16V
C843	1-124-589-11	ELECT	47uF	20%	16V
C844	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C845	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C846	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C847	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C856	1-126-163-11	ELECT	4.7uF	20%	50V

< CONNECTOR >

*	CN101	1-566-761-11	PIN, CONNECTOR (PC BOARD) 6P
	CN102	1-785-900-21	CONNECTOR 5P
	CN103	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
	CN301	1-794-603-12	PIN, CONNECTOR (S16B-PADSS-1) 16P
	CN303	1-564-506-11	PLUG, CONNECTOR 3P
	CN501	1-785-900-21	CONNECTOR 5P
	CN601	1-580-907-41	PLUG, CONNECTOR (BUS CONTROL IN) (US, CND)
	CN651	1-691-550-11	PIN, CONNECTOR (1.5mm) (SMD) 3P
	CN652	1-779-993-11	PIN, CONNECTOR (PWB) 5P
	CN801	1-774-701-21	PIN, CONNECTOR 16P
*	CN802	1-565-135-11	PIN, CONNECTOR (STRAIGHT) 2P
*	CN901	1-818-817-61	FFC/FPC CONNECTOR (ZIF) 40P
	CN906	1-820-644-31	CONNECTOR, FFC/FPC (ZIF) 60P

< DIODE >

	D102	6-500-334-01	DIODE MC2836-T112-1
	D301	6-501-743-01	DIODE MAZ8068GMLS0 (US, CND)
	D505	6-500-335-01	DIODE MC2838-T112-1
	D602	6-501-657-01	DIODE MA24D5000BS0
	D606	6-501-782-01	DIODE MAZ8180GMLS0 (US, CND)
	D607	6-501-738-01	DIODE MAZ8062GMLS0 (US, CND)
	D607	6-501-747-01	DIODE MAZ8075GMLS0 (EXCEPT US, CND)
	D608	6-501-782-01	DIODE MAZ8180GMLS0

Note: CN102 has been deleted in the midway of production.

AUDIO

Ref. No.	Part No.	Description	Remark
D609	6-501-782-01	DIODE MAZ8180GMLS0 (US, CND)	
D610	6-501-782-01	DIODE MAZ8180GMLS0 (US, CND)	
D611	6-502-131-01	DIODE LRB751V-40T1G (US, CND)	
D653	6-501-743-01	DIODE MAZ8068GMLS0	
D801	6-501-782-01	DIODE MAZ8180GMLS0	
D802	6-501-782-01	DIODE MAZ8180GMLS0	
D803	6-501-782-01	DIODE MAZ8180GMLS0	
D804	6-501-817-01	DIODE MA2J1110GLS0	
D806	6-501-782-01	DIODE MAZ8180GMLS0	
D807	6-501-782-01	DIODE MAZ8180GMLS0	
D808	6-501-782-01	DIODE MAZ8180GMLS0	
D809	8-719-053-18	DIODE 1SR154-400TE-25 (AEP, UK)	
D810	6-501-571-01	DIODE 1N5404-C311-3	
D811	6-502-643-01	DIODE 1A4-A2	
D813	6-502-643-01	DIODE 1A4-A2	
D815	6-502-643-01	DIODE 1A4-A2	
D816	6-502-643-01	DIODE 1A4-A2	
D817	6-502-643-01	DIODE 1A4-A2	
D818	6-502-643-01	DIODE 1A4-A2	
D819	6-502-643-01	DIODE 1A4-A2	
D820	6-502-643-01	DIODE 1A4-A2	
D821	6-502-643-01	DIODE 1A4-A2	
D822	6-502-643-01	DIODE 1A4-A2	
D823	6-502-643-01	DIODE 1A4-A2	
D824	6-502-643-01	DIODE 1A4-A2	
D825	6-501-817-01	DIODE MA2J1110GLS0	
D826	6-501-817-01	DIODE MA2J1110GLS0	
D856	6-501-782-01	DIODE MAZ8180GMLS0	
D857	6-501-817-01	DIODE MA2J1110GLS0	
		< FERRITE BEAD >	
FB1	1-400-334-21	FERRITE, EMI (SMD) (1608) (US, CND)	
FB2	1-400-334-21	FERRITE, EMI (SMD) (1608) (US, CND)	
FB3	1-400-334-21	FERRITE, EMI (SMD) (1608) (US, CND)	
FB4	1-400-334-21	FERRITE, EMI (SMD) (1608) (US, CND)	
FB303	1-414-228-11	INDUCTOR, FERRITE BEAD	
FB304	1-500-284-21	INDUCTOR, FERRITE BEAD	
FB305	1-500-284-21	INDUCTOR, FERRITE BEAD	
FB306	1-500-284-21	INDUCTOR, FERRITE BEAD	
FB601	1-500-329-21	INDUCTOR, FERRITE BEAD	
FB602	1-500-329-21	INDUCTOR, FERRITE BEAD	
FB603	1-500-329-21	INDUCTOR, FERRITE BEAD	
FB651	1-400-392-21	INDUCTOR, FERRITE BEAD (1608)	
		< IC >	
IC1	6-714-162-01	IC TEF6617T/V1/S470, 518	
IC101	6-714-707-01	IC NJM2885DL1-19 (TE2)	
* IC102	6-704-337-01	IC BD7931F	
IC104	6-709-213-01	IC NJM2387ADL3 (TE2)	
IC301	6-714-623-01	IC BD3467FV-E2	
IC501	6-712-776-01	IC PST8228UL	
IC502	6-715-376-01	IC R5F3640MDZ97FB (for SERVICE)	
IC503	6-702-302-01	IC TK11133CSCL-G	
IC504	6-703-997-01	IC BR24L08FV-WE2	
IC601	6-714-602-01	IC BD9070FP-E2	
IC603	6-703-884-01	IC BA8271F-E2 (US, CND)	
IC801	6-705-359-02	IC TDA8588AJ/N2/R1	

Ref. No.	Part No.	Description	Remark
		< JACK >	
J1	1-815-185-13	JACK (ANT) (ANTENNA IN)	
J601	1-566-822-81	JACK (REMOTE IN)	
		< COIL >	
L1	1-414-180-51	INDUCTOR 3.3uH	
L2	1-410-501-61	INDUCTOR 2.2uH	
L6	1-457-817-11	COIL (FM MIX)	
L7	1-481-285-51	INDUCTOR 560uH	
L8	1-481-285-51	INDUCTOR 560uH	
L101	1-481-182-21	INDUCTOR 22uH	
L501	1-414-400-11	INDUCTOR 22uH	
L604	1-411-595-21	COIL, CHOKE 47uH	
L605	1-411-595-21	COIL, CHOKE 47uH	
L606	1-412-525-25	INDUCTOR 10uH	
L801	1-457-496-11	COIL, CHOKE 350uH	
		< TRANSISTOR >	
Q301	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
Q302	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
Q303	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
Q304	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
Q306	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
Q307	6-550-683-01	FET RJK005N03-T146 (US, CND)	
Q351	8-729-038-37	TRANSISTOR RT1N141M-TP-1	
Q353	8-729-038-37	TRANSISTOR RT1N141M-TP-1	
Q502	8-729-038-30	TRANSISTOR RT1P141M-TP-1	
Q605	8-729-038-23	TRANSISTOR RT1N141C-TP-1	
Q607	8-729-038-28	TRANSISTOR RT1N441C-TP-1 (EXCEPT US, CND)	
Q608	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF (EXCEPT US, CND)	
Q801	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q802	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q803	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q804	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q805	8-729-028-99	TRANSISTOR DTC114YUA-T106	
Q852	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
		< RESISTOR >	
R1	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R2	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R3	1-216-864-11	SHORT CHIP 0 (EXCEPT US, CND)	
R6	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R10	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R11	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R12	1-216-009-91	METAL CHIP 22 5% 1/10W	
R13	1-216-809-11	METAL CHIP 100 5% 1/10W	
R14	1-216-809-11	METAL CHIP 100 5% 1/10W	
R15	1-216-864-11	SHORT CHIP 0 (EXCEPT US, CND)	
R16	1-216-864-11	SHORT CHIP 0 (EXCEPT US, CND)	
R17	1-216-864-11	SHORT CHIP 0 (EXCEPT US, CND)	
R18	1-216-864-11	SHORT CHIP 0	
R101	1-216-295-91	SHORT CHIP 0	
R103	1-216-295-91	SHORT CHIP 0	
R104	1-216-864-11	SHORT CHIP 0	
R105	1-216-864-11	SHORT CHIP 0	
R106	1-216-864-11	SHORT CHIP 0	
R107	1-216-864-11	SHORT CHIP 0	
R108	1-216-864-11	SHORT CHIP 0	

Ref. No.	Part No.	Description			Remark
R111	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R112	1-216-834-11	METAL CHIP	12K	5%	1/10W
R113	1-216-295-91	SHORT CHIP	0		
R115	1-216-295-91	SHORT CHIP	0		
R118	1-216-864-11	SHORT CHIP	0		
R127	1-216-864-11	SHORT CHIP	0		
R129	1-216-864-11	SHORT CHIP	0		
R130	1-216-864-11	SHORT CHIP	0		
R131	1-216-864-11	SHORT CHIP	0		
R132	1-216-864-11	SHORT CHIP	0		
R133	1-216-864-11	SHORT CHIP	0		
R134	1-216-864-11	SHORT CHIP	0		
R135	1-216-864-11	SHORT CHIP	0		
R136	1-216-864-11	SHORT CHIP	0		
R137	1-216-864-11	SHORT CHIP	0		
R138	1-216-864-11	SHORT CHIP	0		
R139	1-216-864-11	SHORT CHIP	0		
R140	1-216-864-11	SHORT CHIP	0		
R141	1-216-295-91	SHORT CHIP	0		
R142	1-216-295-91	SHORT CHIP	0		
R143	1-216-295-91	SHORT CHIP	0		
R144	1-216-864-11	SHORT CHIP	0		
R201	1-216-864-11	SHORT CHIP	0		
R202	1-216-864-11	SHORT CHIP	0		
R203	1-216-864-11	SHORT CHIP	0		
R301	1-216-864-11	SHORT CHIP	0		
R302	1-216-864-11	SHORT CHIP	0		
R303	1-216-864-11	SHORT CHIP	0		
R304	1-216-864-11	SHORT CHIP	0		
R305	1-216-025-11	METAL CHIP	100	5%	1/10W
R306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R308	1-216-864-11	SHORT CHIP	0		
R309	1-216-025-11	METAL CHIP	100	5%	1/10W
R310	1-216-864-11	SHORT CHIP	0		
R311	1-216-025-11	METAL CHIP	100	5%	1/10W
R312	1-216-864-11	SHORT CHIP	0		
R313	1-216-833-11	METAL CHIP	10K	5%	1/10W
R314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R315	1-216-025-11	METAL CHIP	100	5%	1/10W
R316	1-216-864-11	SHORT CHIP	0		
R317	1-216-864-11	SHORT CHIP	0		
R318	1-216-864-11	SHORT CHIP	0		
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R321	1-216-025-11	METAL CHIP	100	5%	1/10W
R323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R326	1-216-809-11	METAL CHIP	100	5%	1/10W
R327	1-216-809-11	METAL CHIP	100	5%	1/10W
R328	1-216-809-11	METAL CHIP	100	5%	1/10W
R329	1-216-809-11	METAL CHIP	100	5%	1/10W
R330	1-216-809-11	METAL CHIP	100	5%	1/10W
R331	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (US, CND)
R332	1-216-833-11	METAL CHIP	10K	5%	1/10W
R333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R334	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R335	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R338	1-216-809-11	METAL CHIP	100	5%	1/10W
R341	1-216-864-11	SHORT CHIP	0		
R342	1-216-864-11	SHORT CHIP	0		
R343	1-216-864-11	SHORT CHIP	0		
R344	1-216-864-11	SHORT CHIP	0		
R345	1-216-864-11	SHORT CHIP	0		
R352	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R353	1-216-864-11	SHORT CHIP	0		
R354	1-216-819-11	METAL CHIP	680	5%	1/10W
R355	1-216-864-11	SHORT CHIP	0		
R385	1-216-834-11	METAL CHIP	12K	5%	1/10W
R386	1-216-834-11	METAL CHIP	12K	5%	1/10W
R387	1-216-817-11	METAL CHIP	470	5%	1/10W
R388	1-216-817-11	METAL CHIP	470	5%	1/10W
R393	1-216-841-11	METAL CHIP	47K	5%	1/10W
R394	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R405	1-216-864-11	SHORT CHIP	0		
R501	1-216-845-11	METAL CHIP	100K	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R506	1-216-849-11	METAL CHIP	220K	5%	1/10W
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W
R508	1-216-864-11	SHORT CHIP	0 (EXCEPT RU)		
R509	1-216-845-11	METAL CHIP	100K	5%	1/10W (RU)
R510	1-216-864-11	SHORT CHIP	0 (EXCEPT E, EA)		
R511	1-216-845-11	METAL CHIP	100K	5%	1/10W (E, EA)
R512	1-216-864-11	SHORT CHIP	0 (AEP, RU, UK, E (PAL), EA)		
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W (US, CND, E (NTSC))
R514	1-216-864-11	SHORT CHIP	0		
R515	1-216-864-11	SHORT CHIP	0		
R517	1-216-845-11	METAL CHIP	100K	5%	1/10W
R520	1-216-845-11	METAL CHIP	100K	5%	1/10W
R521	1-216-821-11	METAL CHIP	1K	5%	1/10W
R522	1-216-845-11	METAL CHIP	100K	5%	1/10W
R523	1-216-845-11	METAL CHIP	100K	5%	1/10W
R524	1-216-821-11	METAL CHIP	1K	5%	1/10W
R525	1-216-845-11	METAL CHIP	100K	5%	1/10W
R526	1-216-845-11	METAL CHIP	100K	5%	1/10W
R527	1-216-841-11	METAL CHIP	47K	5%	1/10W
R528	1-216-809-11	METAL CHIP	100	5%	1/10W
R529	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R530	1-216-809-11	METAL CHIP	100	5%	1/10W
R531	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R532	1-216-809-11	METAL CHIP	100	5%	1/10W
R533	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R534	1-216-845-11	METAL CHIP	100K	5%	1/10W
R535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R536	1-216-833-11	METAL CHIP	10K	5%	1/10W
R537	1-216-821-11	METAL CHIP	1K	5%	1/10W
R538	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
R541	1-216-864-11	SHORT CHIP	0		
R542	1-216-845-11	METAL CHIP	100K	5%	1/10W
R543	1-216-809-11	METAL CHIP	100	5%	1/10W
R544	1-216-821-11	METAL CHIP	1K	5%	1/10W (US, CND)
R545	1-216-809-11	METAL CHIP	100	5%	1/10W
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W
R547	1-216-809-11	METAL CHIP	100	5%	1/10W
R548	1-216-827-11	METAL CHIP	3.3K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R549	1-216-845-11	METAL CHIP	100K	5%	1/10W (US, CND)
R550	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R551	1-216-821-11	METAL CHIP	1K	5%	1/10W (US, CND)
R552	1-216-821-11	METAL CHIP	1K	5%	1/10W (US, CND)
R553	1-216-845-11	METAL CHIP	100K	5%	1/10W
R554	1-216-864-11	SHORT CHIP	0		
R556	1-216-845-11	METAL CHIP	100K	5%	1/10W
R557	1-216-864-11	SHORT CHIP	0		(EXCEPT US, CND)
R558	1-216-845-11	METAL CHIP	100K	5%	1/10W (EXCEPT US, CND)
R559	1-216-845-11	METAL CHIP	100K	5%	1/10W (EXCEPT US, CND)
R561	1-219-570-11	METAL CHIP	10M	5%	1/10W
R563	1-216-845-11	METAL CHIP	100K	5%	1/10W
R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R568	1-216-849-11	METAL CHIP	220K	5%	1/10W
R573	1-216-864-11	SHORT CHIP	0		
R574	1-216-864-11	SHORT CHIP	0		
R575	1-216-864-11	SHORT CHIP	0		
R576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R580	1-216-841-11	METAL CHIP	47K	5%	1/10W
R582	1-216-864-11	SHORT CHIP	0		
R584	1-216-864-11	SHORT CHIP	0		
R586	1-216-864-11	SHORT CHIP	0		
R587	1-216-864-11	SHORT CHIP	0		
R589	1-216-864-11	SHORT CHIP	0		
R590	1-216-864-11	SHORT CHIP	0		
R594	1-216-845-11	METAL CHIP	100K	5%	1/10W (E (PAL), EA)
R595	1-216-864-11	SHORT CHIP	0 (EXCEPT E (PAL), EA)		
R597	1-216-864-11	SHORT CHIP	0		
R601	1-216-864-11	SHORT CHIP	0		
R603	1-216-864-11	SHORT CHIP	0		
R604	1-216-820-11	METAL CHIP	820	5%	1/10W
R606	1-216-295-91	SHORT CHIP	0		
R608	1-216-820-11	METAL CHIP	820	5%	1/10W
R609	1-216-817-11	METAL CHIP	470	5%	1/10W
R610	1-216-820-11	METAL CHIP	820	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W
R612	1-216-841-11	METAL CHIP	47K	5%	1/10W
R613	1-245-816-11	METAL CHIP	2.2K	0.5%	1/10W
R614	1-245-806-11	METAL CHIP	820	0.5%	1/10W
R615	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R616	1-245-816-11	METAL CHIP	2.2K	0.5%	1/10W
R617	1-216-864-11	SHORT CHIP	0 (US, CND)		
R618	1-216-809-11	METAL CHIP	100	5%	1/10W
R619	1-216-809-11	METAL CHIP	100	5%	1/10W
R620	1-216-864-11	SHORT CHIP	0 (US, CND)		
R621	1-216-836-11	METAL CHIP	18K	5%	1/10W
R622	1-216-809-11	METAL CHIP	100	5%	1/10W
R624	1-216-821-11	METAL CHIP	1K	5%	1/10W (US, CND)
R625	1-216-821-11	METAL CHIP	1K	5%	1/10W (US, CND)
R626	1-216-296-11	SHORT CHIP	0 (US, CND)		
R627	1-216-809-11	METAL CHIP	100	5%	1/10W (US, CND)
R628	1-216-809-11	METAL CHIP	100	5%	1/10W (US, CND)
R629	1-216-809-11	METAL CHIP	100	5%	1/10W (US, CND)
R630	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US, CND)
R630	1-216-835-11	METAL CHIP	15K	5%	1/10W (US, CND)
R631	1-216-821-11	METAL CHIP	1K	5%	1/10W
R632	1-216-851-11	METAL CHIP	330K	5%	1/10W (US, CND)
R633	1-216-851-11	METAL CHIP	330K	5%	1/10W (US, CND)
R635	1-216-849-11	METAL CHIP	220K	5%	1/10W (EXCEPT US, CND)
R637	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R638	1-216-864-11	SHORT CHIP	0		
R639	1-249-413-11	CARBON	470	5%	1/4W
R640	1-216-295-91	SHORT CHIP	0		
R651	1-216-864-11	SHORT CHIP	0		
R652	1-216-864-11	SHORT CHIP	0		
R653	1-216-864-11	SHORT CHIP	0		
R654	1-216-864-11	SHORT CHIP	0		
R656	1-216-864-11	SHORT CHIP	0		
R657	1-216-864-11	SHORT CHIP	0		
R658	1-216-864-11	SHORT CHIP	0		
R703	1-216-864-11	SHORT CHIP	0		
R706	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R723	1-216-833-11	METAL CHIP	10K	5%	1/10W (E (PAL), EA)
R724	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (E (PAL), EA)
R725	1-216-821-11	METAL CHIP	1K	5%	1/10W (E (PAL), EA)
R726	1-216-821-11	METAL CHIP	1K	5%	1/10W (E (PAL), EA)
R801	1-216-845-11	METAL CHIP	100K	5%	1/10W
R802	1-216-833-11	METAL CHIP	10K	5%	1/10W
R803	1-216-073-91	METAL CHIP	10K	5%	1/10W
R804	1-216-073-91	METAL CHIP	10K	5%	1/10W
R805	1-216-073-91	METAL CHIP	10K	5%	1/10W
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R807	1-216-841-11	METAL CHIP	47K	5%	1/10W
R808	1-216-073-91	METAL CHIP	10K	5%	1/10W
R809	1-216-073-91	METAL CHIP	10K	5%	1/10W
R810	1-216-821-11	METAL CHIP	1K	5%	1/10W
R811	1-216-295-91	SHORT CHIP	0		
R812	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R813	1-216-841-11	METAL CHIP	47K	5%	1/10W
R814	1-216-811-11	METAL CHIP	150	5%	1/10W
R815	1-216-295-91	SHORT CHIP	0		
R817	1-216-841-11	METAL CHIP	47K	5%	1/10W
R818	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R819	1-216-841-11	METAL CHIP	47K	5%	1/10W
R820	1-216-837-11	METAL CHIP	22K	5%	1/10W
R822	1-216-864-11	SHORT CHIP	0		
R823	1-216-801-11	METAL CHIP	22	5%	1/10W
R824	1-216-033-00	METAL CHIP	220	5%	1/10W
R825	1-216-033-00	METAL CHIP	220	5%	1/10W
R826	1-216-033-00	METAL CHIP	220	5%	1/10W
R827	1-216-033-00	METAL CHIP	220	5%	1/10W
R871	1-216-073-91	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R872	1-216-073-91	METAL CHIP	10K	5%	1/10W
R873	1-216-845-11	METAL CHIP	100K	5%	1/10W
R874	1-216-837-11	METAL CHIP	22K	5%	1/10W
R903	1-216-864-11	SHORT CHIP	0		
R905	1-216-864-11	SHORT CHIP	0		
R908	1-216-864-11	SHORT CHIP	0		
R909	1-216-864-11	SHORT CHIP	0		
		< THERMISTOR >			
TH601	1-803-350-21	THERMISTOR, POSITIVE (US, CND)			
		< VARISTOR >			
VDR301	1-804-988-21	VARISTOR, CHIP (1608)			
VDR302	1-804-988-21	VARISTOR, CHIP (1608)			
VDR303	1-804-988-21	VARISTOR, CHIP (1608)			
VDR305	1-804-988-21	VARISTOR, CHIP (1608)			
VDR306	1-804-988-21	VARISTOR, CHIP (1608)			
VDR307	1-804-988-21	VARISTOR, CHIP (1608)			
VDR309	1-804-988-21	VARISTOR, CHIP (1608)			
VDR651	1-802-995-21	VARISTOR, CHIP			
VDR652	1-802-995-21	VARISTOR, CHIP			
		< SURGE ABSORBER >			
VR1	1-805-043-11	ABSORBER, CHIP SURGE			
		< VIBRATOR >			
X1	1-814-302-11	QUARTZ CRYSTAL UNIT (4MHz)			
X501	1-795-059-21	VIBRATOR, CERAMIC (6MHz)			
X502	1-767-317-11	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
	A-1748-266-A	KEY BOARD, COMPLETE **********			
	1-837-118-21	CABLE, FLEXIBLE FLAT (10 CORE)			
		< CAPACITOR >			
C1501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1502	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1503	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN1501	1-766-646-61	CONNECTOR, FFC/FPC 10P			
		< IC >			
IC1501	6-600-764-01	IC PNA4813M01S0			
		< LED >			
LED501	6-502-395-01	LED SL-194S-WS-SD-T (SOURCE/OFF)			
LED502	6-502-395-01	LED SL-194S-WS-SD-T (TOP)			
LED503	6-502-395-01	LED SL-194S-WS-SD-T (ILLUMINATION)			
LED504	6-502-395-01	LED SL-194S-WS-SD-T (ILLUMINATION)			
LED505	6-502-395-01	LED SL-194S-WS-SD-T (⏏)			
		< RESISTOR >			
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-864-11	SHORT CHIP	0		
R1503	1-216-820-11	METAL CHIP	820	5%	1/10W
R1504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1511	1-216-827-11	METAL CHIP	3.3K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1512	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1513	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1514	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1515	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1516	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1519	1-216-864-11	SHORT CHIP	0		
R1520	1-216-864-11	SHORT CHIP	0		
R1521	1-216-864-11	SHORT CHIP	0		
		< SWITCH/ROTARY ENCODER >			
S1501	1-786-653-21	SWITCH, TACTILE (RESET)			
S1502	1-786-653-21	SWITCH, TACTILE (SOURCE/OFF)			
S1503	1-798-284-11	TACTILE SWITCH (⏏)			
S1504	1-786-653-21	SWITCH, TACTILE (TOP)			
S1507	1-418-921-11	ENCODER, ROTARY (VOLUME)			
**********					
	A-1748-275-A	LCD BOARD, COMPLETE **********			
		< CAPACITOR >			
C1303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1325	1-100-672-11	CERAMIC CHIP	10uF	20%	16V
C1326	1-100-672-11	CERAMIC CHIP	10uF	20%	16V
C1327	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
C1328	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1329	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C1330	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C1331	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1332	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C1333	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1334	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1335	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1336	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1337	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1338	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1339	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1340	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C1341	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1346	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C1351	1-100-387-21	ELECT CHIP	39uF	20%	16V
C1352	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1353	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C1356	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C1357	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C1371	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1401	1-100-672-11	CERAMIC CHIP	10uF	20%	16V
C1402	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
C1403	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C1405	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1406	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1407	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1408	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1481	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1482	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C1483	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C1484	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C1486	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1487	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
C1491	1-114-817-11	CERAMIC CHIP	2.2uF	10%	50V
C1492	1-114-817-11	CERAMIC CHIP	2.2uF	10%	50V

LCD

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN1301	1-818-817-61	FFC/FPC CONNECTOR (ZIF) 40P	
* CN1302	1-818-817-61	FFC/FPC CONNECTOR (ZIF) 40P	
CN1401	1-820-644-31	CONNECTOR, FFC/FPC (ZIF) 60P	
CN1421	1-822-725-11	CONNECTOR, FFC/FPC 4P	
CN1431	1-766-646-61	CONNECTOR, FFC/FPC 10P	
CN1491	1-822-904-11	CONNECTOR, FFC/FPC (ZIF)	
		< DIODE >	
D1321	8-719-081-34	DIODE RB160M-30TR	
D1322	8-719-081-34	DIODE RB160M-30TR	
D1351	6-501-817-01	DIODE MA2J1110GLS0	
D1371	6-501-817-01	DIODE MA2J1110GLS0	
D1372	6-501-817-01	DIODE MA2J1110GLS0	
D1421	6-501-743-01	DIODE MAZ8068GMLS0	
D1422	6-501-743-01	DIODE MAZ8068GMLS0	
D1423	6-501-743-01	DIODE MAZ8068GMLS0	
D1424	6-501-743-01	DIODE MAZ8068GMLS0	
D1491	6-501-123-01	DIODE RB160M-60TR	
		< FERRITE BEAD >	
FB1302	1-500-329-21	INDUCTOR, FERRITE BEAD	
		< IC >	
IC1301	6-712-017-01	IC TC74VCX16827 (EL, F)	
* IC1302	6-709-937-01	IC TC7SA34FU (T5RSONYF)	
IC1323	6-711-169-01	IC MM3203BFBE	
IC1324	6-705-337-01	IC TK11150CSCL-G	
IC1325	6-702-302-01	IC TK11133CSCL-G	
IC1351	8-759-710-97	IC NJM4565M-D	
IC1371	6-707-884-01	IC TC74VHCT04AFT (EKJ)	
IC1481	6-714-620-01	IC OZ9990IRN-A2-0-TR	
		< COIL >	
L1321	1-400-787-21	INDUCTOR 47uH	
L1322	1-400-787-21	INDUCTOR 47uH	
L1330	1-400-144-21	INDUCTOR 22uH	
L1351	1-400-675-11	INDUCTOR 10uH	
L1401	1-400-675-11	INDUCTOR 10uH	
L1402	1-400-675-11	INDUCTOR 10uH	
L1403	1-400-675-11	INDUCTOR 10uH	
L1404	1-400-675-11	INDUCTOR 10uH	
L1481	1-424-979-21	COIL, CHOKE (SMD) 10uH	
L1491	1-424-980-21	COIL, CHOKE (SMD) 22uH	
		< LED >	
LED507	6-502-395-01	LED SL-194S-WS-SD-T (DISC SLOT INDICATOR)	
		< TRANSISTOR >	
Q1303	6-551-699-01	TRANSISTOR ISA1602AM1TP-1EF	
Q1304	8-729-038-37	TRANSISTOR RT1N141M-TP-1	
Q1351	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q1352	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q1353	6-551-699-01	TRANSISTOR ISA1602AM1TP-1EF	
Q1354	8-729-901-97	TRANSISTOR 2SA1036K-Q	
Q1355	8-729-901-87	TRANSISTOR 2SC2411K-CQ	
Q1371	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q1372	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q1491	6-551-131-01	FET 2SK3614-TD-E	

Ref. No.	Part No.	Description		Remark
		< RESISTOR >		
R1301	1-218-990-81	SHORT CHIP 0		
R1302	1-216-864-11	SHORT CHIP 0		
R1304	1-218-990-81	SHORT CHIP 0		
R1305	1-216-805-11	METAL CHIP 47	5%	1/10W
R1306	1-218-990-81	SHORT CHIP 0		
R1307	1-216-864-11	SHORT CHIP 0		
R1308	1-216-837-11	METAL CHIP 22K	5%	1/10W
R1309	1-216-841-11	METAL CHIP 47K	5%	1/10W
R1313	1-216-864-11	SHORT CHIP 0		
R1321	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1322	1-216-837-11	METAL CHIP 22K	5%	1/10W
R1323	1-218-895-11	METAL CHIP 100K	0.5%	1/10W
R1324	1-218-871-11	METAL CHIP 10K	0.5%	1/10W
R1325	1-218-890-11	METAL CHIP 62K	0.5%	1/10W
R1326	1-218-893-11	METAL CHIP 82K	0.5%	1/10W
R1327	1-218-871-11	METAL CHIP 10K	0.5%	1/10W
R1331	1-216-827-11	METAL CHIP 3.3K	5%	1/10W
R1351	1-216-809-11	METAL CHIP 100	5%	1/10W
R1352	1-216-845-11	METAL CHIP 100K	5%	1/10W
R1353	1-216-809-11	METAL CHIP 100	5%	1/10W
R1354	1-216-845-11	METAL CHIP 100K	5%	1/10W
R1355	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1356	1-216-821-11	METAL CHIP 1K	5%	1/10W
R1357	1-216-827-11	METAL CHIP 3.3K	5%	1/10W
R1358	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1359	1-216-829-11	METAL CHIP 4.7K	5%	1/10W
R1360	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1361	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1362	1-216-809-11	METAL CHIP 100	5%	1/10W
R1363	1-216-825-11	METAL CHIP 2.2K	5%	1/10W
R1364	1-216-825-11	METAL CHIP 2.2K	5%	1/10W
R1365	1-216-797-11	METAL CHIP 10	5%	1/10W
R1366	1-216-797-11	METAL CHIP 10	5%	1/10W
R1367	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1368	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1371	1-216-797-11	METAL CHIP 10	5%	1/10W
R1372	1-218-675-11	METAL CHIP 200	0.5%	1/10W
R1373	1-218-667-11	METAL CHIP 91	0.5%	1/10W
R1374	1-211-984-11	METAL CHIP 43	0.5%	1/10W
R1375	1-216-864-11	SHORT CHIP 0		
R1376	1-216-803-11	METAL CHIP 33	5%	1/10W
R1377	1-216-864-11	SHORT CHIP 0		
R1378	1-211-982-11	METAL CHIP 36	0.5%	1/10W
R1379	1-211-984-11	METAL CHIP 43	0.5%	1/10W
R1380	1-216-864-11	SHORT CHIP 0		
R1381	1-216-807-11	METAL CHIP 68	5%	1/10W
R1382	1-218-824-11	METAL CHIP 110	0.5%	1/10W
R1383	1-218-673-11	METAL CHIP 160	0.5%	1/10W
R1384	1-216-801-11	METAL CHIP 22	5%	1/10W
R1386	1-216-797-11	METAL CHIP 10	5%	1/10W
R1387	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1388	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1389	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1390	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1391	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1392	1-216-833-11	METAL CHIP 10K	5%	1/10W
R1401	1-216-829-11	METAL CHIP 4.7K	5%	1/10W
R1402	1-216-864-11	SHORT CHIP 0		

Ref. No.	Part No.	Description			Remark
R1403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1404	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1405	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1421	1-216-797-11	METAL CHIP	10	5%	1/10W
R1422	1-216-797-11	METAL CHIP	10	5%	1/10W
R1423	1-216-797-11	METAL CHIP	10	5%	1/10W
R1424	1-216-797-11	METAL CHIP	10	5%	1/10W
R1432	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1433	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1481	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1482	1-216-864-11	SHORT CHIP	0		
R1483	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1484	1-216-809-11	METAL CHIP	100	5%	1/10W
R1485	1-218-892-11	METAL CHIP	75K	0.5%	1/10W
R1486	1-218-892-11	METAL CHIP	75K	0.5%	1/10W
R1487	1-216-809-11	METAL CHIP	100	5%	1/10W
R1488	1-216-809-11	METAL CHIP	100	5%	1/10W
R1489	1-216-809-11	METAL CHIP	100	5%	1/10W
R1490	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1491	1-216-864-11	SHORT CHIP	0		
R1492	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1493	1-218-892-11	METAL CHIP	75K	0.5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
* RB1301	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1302	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1303	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1304	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1305	1-234-714-11	RES, NETWORK 56 (1005X4)			
		SENSOR BOARD			
		< SWITCH >			
SW2	1-798-173-31	DETECTOR SWITCH (SELF)			
SW3	1-798-173-31	DETECTOR SWITCH (DISC IN)			
	A-1732-272-A	SERVO BOARD, COMPLETE			
		< CAPACITOR >			
C1	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C2	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C4	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C5	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C7	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C9	1-135-856-91	TANTALUM CHIP	100uF	20%	10V
C10	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C11	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C12	1-135-856-91	TANTALUM CHIP	100uF	20%	10V
C13	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C14	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C15	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C16	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C17	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C18	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C19	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C20	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C21	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C22	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C23	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C24	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C25	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C26	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C30	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C31	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C32	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C34	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C35	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C36	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C38	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C39	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C40	1-137-910-11	TANTALUM CHIP	10uF	20%	16V
C41	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C42	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C43	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C44	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C45	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
C46	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
C47	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C48	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C49	1-117-681-11	ELECT CHIP	100uF	20%	16V
C51	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C52	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C53	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C54	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C55	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C56	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C57	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C58	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C59	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C60	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C61	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C62	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C63	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C64	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C65	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C66	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C67	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C68	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C69	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C70	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C71	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C72	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C73	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C74	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C75	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C76	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C77	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C78	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C79	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C80	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C81	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C83	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C84	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C85	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C86	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C87	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C88	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C92	1-164-936-11	CERAMIC CHIP	680PF	10%	50V

Ref. No.	Part No.	Description			Remark
C93	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C94	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C95	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C96	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C97	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C98	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C99	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C100	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C101	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C102	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C103	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C104	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C105	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C106	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C107	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
C108	1-100-381-11	ELECT CHIP	10uF	20%	16V
C109	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C110	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C111	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C112	1-100-381-11	ELECT CHIP	10uF	20%	16V
C113	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C114	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C115	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C116	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C117	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
C118	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
C119	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C120	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C121	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C122	1-124-779-00	ELECT CHIP	10uF	20%	16V
C123	1-124-779-00	ELECT CHIP	10uF	20%	16V
C124	1-124-779-00	ELECT CHIP	10uF	20%	16V
C125	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C126	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C127	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C128	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C129	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C130	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C131	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C132	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C133	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C134	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C135	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C136	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C137	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C138	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C139	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C141	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C142	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
* C143	1-112-833-11	ELECT CHIP	68uF	20%	16V
C146	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C147	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C149	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C175	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
		< CONNECTOR >			
CN1	1-691-390-61	CONNECTOR, FFC/FPC (ZIF) 26P			
CN2	1-691-394-61	CONNECTOR, FFC/FPC (ZIF) 30P			
CN7	1-580-056-21	PIN, CONNECTOR (SMD) 3P			
CN10	1-820-644-31	CONNECTOR, FFC/FPC (ZIF) 60P			

Note 1: FB30 has been deleted in the midway of production.

Ref. No.	Part No.	Description			Remark
		< FERRITE BEAD/RESISTOR >			
FB1	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB2	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB3	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB4	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB5	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB6	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB7	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB8	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB10	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB12	1-218-939-11	METAL CHIP	68	5%	1/16W
FB13	1-469-083-21	INDUCTOR, FERRITE BEAD (1005)			
FB14	1-469-083-21	INDUCTOR, FERRITE BEAD (1005)			
FB15	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB16	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB17	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB18	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)			
FB19	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)			
FB20	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB21	1-414-229-11	INDUCTOR, FERRITE BEAD			
FB22	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB23	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB24	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB25	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB26	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB27	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB28	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB29	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB30	1-414-760-21	INDUCTOR, FERRITE BEAD			
FB31	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB32	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB33	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB35	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB36	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB37	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB38	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB39	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB40	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB41	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB42	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB43	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB44	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB45	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB46	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB47	1-414-385-21	INDUCTOR, FERRITE BEAD			
FB48	1-414-229-11	INDUCTOR, FERRITE BEAD			
FB49	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB50	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
FB51	1-414-229-11	INDUCTOR, FERRITE BEAD			
FB52	1-457-421-21	INDUCTOR, FERRITE BEAD (1608)			
		< IC >			
IC1	6-709-369-01	IC BH5510KV-E2			
IC4	(Not supplied)	IC ZR36988HQCG-A			
IC5	6-711-653-01	IC S-1206B33-U3T1G			
IC6	6-710-867-01	IC PCM1680DBQ			
IC7	6-710-554-01	IC PCM1808PWR			
IC10	6-714-642-01	IC EM638165 TSA-6G			
IC11	(Not supplied)	IC SST39VF3201B-70-4I-EKE			

Note 2: IC4 and IC11 cannot exchange with single. When these parts are damaged, exchange the entire mounted board.

Ref. No.	Part No.	Description			Remark
IC13	(Not supplied)	IC MFI341S2162			
		< COIL/JUMPER RESISTOR >			
L1	1-469-407-22	INDUCTOR, FERRITE BEAD			
L9	1-457-223-11	COMMON MODE CHOKE COIL			
L10	1-469-407-22	INDUCTOR, FERRITE BEAD			
L11	1-469-407-22	INDUCTOR, FERRITE BEAD			
L12	1-216-295-91	SHORT CHIP	0		
L22	1-481-420-21	INDUCTOR, FERRITE BEAD			
L23	1-481-420-21	INDUCTOR, FERRITE BEAD			
		< TRANSISTOR >			
Q4	6-551-120-01	TRANSISTOR	2SA2119K		
Q6	6-551-120-01	TRANSISTOR	2SA2119K		
		< RESISTOR/FERRITE BEAD >			
R2	1-216-295-91	SHORT CHIP	0		
R3	1-242-967-11	METAL CHIP	1	5%	1/16W
R4	1-218-935-11	METAL CHIP	33	5%	1/16W
R5	1-218-935-11	METAL CHIP	33	5%	1/16W
R8	1-218-954-11	METAL CHIP	1.2K	5%	1/16W
R9	1-242-967-11	METAL CHIP	1	5%	1/16W
R11	1-218-954-11	METAL CHIP	1.2K	5%	1/16W
R12	1-218-968-11	METAL CHIP	18K	5%	1/16W
R13	1-218-968-11	METAL CHIP	18K	5%	1/16W
R14	1-218-967-11	METAL CHIP	15K	5%	1/16W
R15	1-218-966-11	METAL CHIP	12K	5%	1/16W
R16	1-218-966-11	METAL CHIP	12K	5%	1/16W
R17	1-216-864-11	SHORT CHIP	0		
R18	1-218-945-11	METAL CHIP	220	5%	1/16W
R19	1-218-945-11	METAL CHIP	220	5%	1/16W
R21	1-208-905-11	METAL CHIP	5.6K	0.5%	1/16W
R22	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R23	1-218-937-11	METAL CHIP	47	5%	1/16W
R24	1-218-937-11	METAL CHIP	47	5%	1/16W
R25	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R26	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R27	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R28	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R29	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R30	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R31	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R32	1-218-990-81	SHORT CHIP	0		
R33	1-218-977-11	METAL CHIP	100K	5%	1/16W
R34	1-218-943-11	METAL CHIP	150	5%	1/16W
R35	1-218-943-11	METAL CHIP	150	5%	1/16W
R36	1-218-977-11	METAL CHIP	100K	5%	1/16W
R37	1-218-990-81	SHORT CHIP	0		
R38	1-218-990-81	SHORT CHIP	0		
R39	1-218-941-81	METAL CHIP	100	5%	1/16W
R40	1-218-990-81	SHORT CHIP	0		
R42	1-218-977-11	METAL CHIP	100K	5%	1/16W
R43	1-218-990-81	SHORT CHIP	0		
R44	1-218-941-81	METAL CHIP	100	5%	1/16W
R45	1-218-990-81	SHORT CHIP	0		
R49	1-218-977-11	METAL CHIP	100K	5%	1/16W
R50	1-208-702-11	METAL CHIP	6.2K	0.5%	1/16W
R51	1-218-977-11	METAL CHIP	100K	5%	1/16W
R52	1-216-864-11	SHORT CHIP	0		
R53	1-216-864-11	SHORT CHIP	0		

Note 1: IC13 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

Ref. No.	Part No.	Description			Remark
R54	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R55	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R56	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R57	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R58	1-208-860-81	METAL CHIP	75	0.5%	1/16W
R60	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
R61	1-220-168-11	METAL CHIP	62	5%	1/16W
R62	1-218-989-11	METAL CHIP	1M	5%	1/16W
R63	1-218-954-11	METAL CHIP	1.2K	5%	1/16W
R64	1-218-990-81	SHORT CHIP	0		
R65	1-218-977-11	METAL CHIP	100K	5%	1/16W
R66	1-218-977-11	METAL CHIP	100K	5%	1/16W
R67	1-218-990-81	SHORT CHIP	0		
R68	1-218-990-81	SHORT CHIP	0		
R69	1-218-990-81	SHORT CHIP	0		
R70	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R73	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R76	1-218-941-81	METAL CHIP	100	5%	1/16W
R82	1-218-941-81	METAL CHIP	100	5%	1/16W
R83	1-218-941-81	METAL CHIP	100	5%	1/16W
R87	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R88	1-218-965-11	METAL CHIP	10K	5%	1/16W
R89	1-218-953-11	METAL CHIP	1K	5%	1/16W
R90	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R91	1-218-953-11	METAL CHIP	1K	5%	1/16W
R95	1-218-967-11	METAL CHIP	15K	5%	1/16W
R96	1-218-967-11	METAL CHIP	15K	5%	1/16W
R105	1-414-229-11	INDUCTOR, FERRITE BEAD			
R106	1-216-864-11	SHORT CHIP	0		
R107	1-216-864-11	SHORT CHIP	0		
R108	1-216-864-11	SHORT CHIP	0		
R109	1-216-864-11	SHORT CHIP	0		
R115	1-208-671-11	METAL CHIP	330	0.5%	1/16W
R116	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R120	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
R121	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
R122	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
R123	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R124	1-218-990-81	SHORT CHIP	0		
R125	1-218-990-81	SHORT CHIP	0		
R126	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R129	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R132	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R135	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R138	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R144	1-216-864-11	SHORT CHIP	0		
R145	1-218-953-11	METAL CHIP	1K	5%	1/16W
R146	1-414-229-11	INDUCTOR, FERRITE BEAD			
R147	1-414-229-11	INDUCTOR, FERRITE BEAD			
R148	1-414-229-11	INDUCTOR, FERRITE BEAD			
R149	1-414-229-11	INDUCTOR, FERRITE BEAD			
R150	1-218-990-81	SHORT CHIP	0		
R151	1-218-945-11	METAL CHIP	220	5%	1/16W
R152	1-218-945-11	METAL CHIP	220	5%	1/16W
R153	1-218-945-11	METAL CHIP	220	5%	1/16W
R154	1-469-083-21	INDUCTOR, FERRITE BEAD (1005)			
R155	1-469-083-21	INDUCTOR, FERRITE BEAD (1005)			
R158	1-218-990-81	SHORT CHIP	0		
R159	1-218-990-81	SHORT CHIP	0		
R160	1-218-990-81	SHORT CHIP	0		

Note 2: R87 and R88 have been deleted in the midway of production.

Ref. No.	Part No.	Description			Remark
R162	1-218-941-81	METAL CHIP	100	5%	1/16W
R163	1-218-953-11	METAL CHIP	1K	5%	1/16W
R164	1-218-953-11	METAL CHIP	1K	5%	1/16W
R165	1-218-965-11	METAL CHIP	10K	5%	1/16W
R166	1-218-965-11	METAL CHIP	10K	5%	1/16W
R170	1-216-864-11	SHORT CHIP	0		
R171	1-216-864-11	SHORT CHIP	0		
R172	1-218-990-81	SHORT CHIP	0		
R174	1-216-864-11	SHORT CHIP	0		
R175	1-216-864-11	SHORT CHIP	0		
R177	1-218-990-81	SHORT CHIP	0		
R178	1-218-990-81	SHORT CHIP	0		
R179	1-216-864-11	SHORT CHIP	0		
R180	1-216-864-11	SHORT CHIP	0		
R181	1-216-864-11	SHORT CHIP	0		
R200	1-218-945-11	METAL CHIP	220	5%	1/16W
R201	1-218-945-11	METAL CHIP	220	5%	1/16W
R202	1-218-990-81	SHORT CHIP	0		
R203	1-218-990-81	SHORT CHIP	0		
R204	1-218-990-81	SHORT CHIP	0		
R208	1-218-937-11	METAL CHIP	47	5%	1/16W
R209	1-218-937-11	METAL CHIP	47	5%	1/16W
R210	1-218-937-11	METAL CHIP	47	5%	1/16W
R211	1-218-937-11	METAL CHIP	47	5%	1/16W
R212	1-218-937-11	METAL CHIP	47	5%	1/16W
R213	1-218-937-11	METAL CHIP	47	5%	1/16W
R214	1-218-937-11	METAL CHIP	47	5%	1/16W
R215	1-218-937-11	METAL CHIP	47	5%	1/16W
R216	1-218-937-11	METAL CHIP	47	5%	1/16W
R217	1-218-937-11	METAL CHIP	47	5%	1/16W
R218	1-218-937-11	METAL CHIP	47	5%	1/16W
R219	1-218-937-11	METAL CHIP	47	5%	1/16W
R220	1-218-937-11	METAL CHIP	47	5%	1/16W
R221	1-218-937-11	METAL CHIP	47	5%	1/16W
R222	1-218-937-11	METAL CHIP	47	5%	1/16W
R223	1-218-937-11	METAL CHIP	47	5%	1/16W
R224	1-218-937-11	METAL CHIP	47	5%	1/16W
R225	1-218-937-11	METAL CHIP	47	5%	1/16W
R226	1-218-937-11	METAL CHIP	47	5%	1/16W
R227	1-218-937-11	METAL CHIP	47	5%	1/16W
R230	1-218-977-11	METAL CHIP	100K	5%	1/16W
R231	1-218-977-11	METAL CHIP	100K	5%	1/16W
R235	1-216-864-11	SHORT CHIP	0		
R237	1-218-977-11	METAL CHIP	100K	5%	1/16W
		< SWITCH >			
SW1	1-798-174-11	DETECTOR SWITCH (CHUCKING END)			
		< VIBRATOR >			
X1	1-814-308-11	VIBRATOR, CRYSTAL (27MHz)			
X2	1-813-693-11	VIBRATOR, CRYSTAL (12MHz)			
**********					
	A-1748-259-A	VISUAL BOARD, COMPLETE (E (PAL), EA)			
	A-1748-260-A	VISUAL BOARD, COMPLETE (EXCEPT E (PAL), EA)			
		**********			
	1-837-305-11	CONNECTION CORD FOR AUTOMOBILE (EXT) (E (PAL), EA)			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-792-09	SCREW +PTT 2.6X6 (S) (E (PAL), EA)			
		< CAPACITOR >			
C1701	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1702	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1703	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1704	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1705	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1706	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1707	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1708	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C1709	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C1710	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1711	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1712	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1713	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1714	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1715	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1716	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1717	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1718	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1719	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1720	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1721	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C1722	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1723	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1724	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1725	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1726	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1727	1-100-881-91	CERAMIC CHIP	47uF	20%	6.3V
C1728	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C1731	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1732	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C1733	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1734	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C1735	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1736	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C1737	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1738	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
C1739	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1901	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1902	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1903	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1904	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1905	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1906	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1907	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1908	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1909	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1913	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1915	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
C1916	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
C1921	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
C1922	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
C1923	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1924	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
C1925	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
C1926	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1927	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
C1928	1-164-388-91	CERAMIC CHIP	270PF	5%	50V

Ref. No.	Part No.	Description			Remark
C1929	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C1930	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1931	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C1932	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1951	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
					(E (PAL), EA)
C1952	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
					(E (PAL), EA)
C1953	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
					(E (PAL), EA)
C1956	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
					(E (PAL), EA)
C1957	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
					(E (PAL), EA)
C1958	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
					(E (PAL), EA)
C1959	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
					(E (PAL), EA)
C1960	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
					(E (PAL), EA)
C1961	1-164-388-91	CERAMIC CHIP	270PF	5%	50V
					(E (PAL), EA)
C1971	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
					(E (PAL), EA)
C1972	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
					(E (PAL), EA)
C1973	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
					(E (PAL), EA)
C1974	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
					(E (PAL), EA)
C1975	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
					(E (PAL), EA)
C1976	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
					(E (PAL), EA)
C1977	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
					(E (PAL), EA)
C1978	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
					(E (PAL), EA)
C1979	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
					(E (PAL), EA)
C1981	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1982	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1983	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1984	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C1985	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1986	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1987	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1988	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C1989	1-117-681-11	ELECT CHIP	100uF	20%	16V
C2003	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2004	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2005	1-117-681-11	ELECT CHIP	100uF	20%	16V
C2007	1-117-681-11	ELECT CHIP	100uF	20%	16V
C2008	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2009	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2010	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2011	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2012	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C2013	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2014	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2015	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C2016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2017	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C2018	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2019	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2022	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2201	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V
C2202	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V
C2203	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2204	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2205	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2206	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2207	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2208	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2209	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2210	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2211	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2212	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2213	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2214	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2215	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2216	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2217	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2218	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2219	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2220	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2221	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2222	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2223	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2224	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2225	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2226	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2227	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2228	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2229	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2230	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2231	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2232	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2233	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2234	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2235	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2236	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2237	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2238	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2239	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2240	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2241	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2242	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2243	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2244	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2245	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2246	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2247	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2248	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2249	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2250	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2251	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2252	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2253	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2257	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2259	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C2261	1-164-862-11	CERAMIC CHIP	33PF	5%	50V
C2262	1-165-708-11	ELECT CHIP	47uF	20%	6.3V

Ref. No.	Part No.	Description			Remark
C2263	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C2264	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C2265	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2331	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2332	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C2333	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2334	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C2335	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2336	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
C2337	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2338	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C2340	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2341	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2342	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2343	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2344	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2345	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C2346	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C2347	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C2351	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C2352	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C2353	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2354	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2355	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2356	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2357	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2358	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C2371	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C2372	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C2373	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2374	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2375	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2376	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2377	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C2391	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C2392	1-112-815-91	CERAMIC CHIP	10uF	20%	6.3V
C2393	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2394	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2395	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2396	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2397	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C2401	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2402	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C2403	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2404	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2405	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2406	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2407	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2408	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2409	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2410	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
C2501	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2503	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2504	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2511	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2513	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2514	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C2601	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V

Ref. No.	Part No.	Description			Remark
C2602	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2603	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C2604	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C2605	1-100-912-11	CERAMIC CHIP	1uF	10%	25V
C2606	1-100-671-11	CERAMIC CHIP	4.7uF	20%	25V
C2607	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C2608	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2609	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2610	1-100-671-11	CERAMIC CHIP	4.7uF	20%	25V
C2611	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C2612	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C2613	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
C2614	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
* C2615	1-112-833-11	ELECT CHIP	68uF	20%	16V
C2616	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
C2617	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
* C2618	1-112-833-11	ELECT CHIP	68uF	20%	16V
C2619	1-114-188-11	ELECT CHIP	220uF	20%	16V
C2620	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
C2621	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
C2622	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C2623	1-112-797-11	ELECT CHIP	470uF	20%	25V
C2625	1-165-708-11	ELECT CHIP	47uF	20%	6.3V
C2626	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C2627	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C2628	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN1901	1-573-806-21	PIN, CONNECTOR (1.5mm) (SMD) 6P			
CN1951	1-573-768-21	PIN, CONNECTOR (1.5mm) (SMD) 5P			(E (PAL), EA)
* CN1971	1-691-591-11	PIN, CONNECTOR (1.5mm) (SMD) 8P			(E (PAL), EA)
CN2001	1-822-915-11	CONNECTOR, FFC/FPC (ZIF) 40P			
CN2002	1-785-900-21	CONNECTOR 5P			
CN2003	1-785-900-21	CONNECTOR 5P			
CN2201	1-822-915-11	CONNECTOR, FFC/FPC (ZIF) 40P			
CN2202	1-822-915-11	CONNECTOR, FFC/FPC (ZIF) 40P			
CN2203	1-785-900-21	CONNECTOR 5P			
CN2204	1-785-900-21	CONNECTOR 5P			
CN2601	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
		< DIODE/SURGE ABSORBER >			
D1901	6-501-743-01	DIODE MAZ8068GMLS0 (E (PAL), EA)			
D1902	6-501-743-01	DIODE MAZ8068GMLS0 (E (PAL), EA)			
D1903	6-501-743-01	DIODE MAZ8068GMLS0 (E (PAL), EA)			
D1904	6-501-743-01	DIODE MAZ8068GMLS0 (E (PAL), EA)			
D1921	8-719-016-73	DIODE STZ6.8T			
D1922	8-719-016-73	DIODE STZ6.8T			
D1923	8-719-016-73	DIODE STZ6.8T			
D1924	8-719-016-73	DIODE STZ6.8T			
D1925	1-805-043-11	ABSORBER, CHIP SURGE			
D1926	1-805-043-11	ABSORBER, CHIP SURGE			
D1951	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)			
D1952	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)			
D1953	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)			
D1954	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)			
D1955	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)			
D1956	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)			
D1957	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)			

Note: CN2003 has been deleted in the midway of production.

Ref. No.	Part No.	Description	Remark
D1958	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)	
D1959	1-805-043-11	ABSORBER, CHIP SURGE (E (PAL), EA)	
D1960	8-719-016-73	DIODE STZ6.8T (E (PAL), EA)	
D1961	8-719-016-73	DIODE STZ6.8T (E (PAL), EA)	
D1962	8-719-016-73	DIODE STZ6.8T (E (PAL), EA)	
D1963	8-719-016-73	DIODE STZ6.8T (E (PAL), EA)	
D2001	6-502-131-01	DIODE LRB751V-40T1G	
D2002	6-502-131-01	DIODE LRB751V-40T1G	
D2202	6-502-131-01	DIODE LRB751V-40T1G	
D2602	6-501-123-01	DIODE RB160M-60TR	
D2603	6-501-123-01	DIODE RB160M-60TR	
D2604	6-501-657-01	DIODE MA24D5000BS0	
D2605	6-501-657-01	DIODE MA24D5000BS0	
D2606	6-502-131-01	DIODE LRB751V-40T1G	
		< FERRITE BEAD >	
FB1701	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB1702	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB1703	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB1704	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB1705	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB1706	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB2251	1-414-235-22	INDUCTOR, FERRITE BEAD	
FB2252	1-414-235-22	INDUCTOR, FERRITE BEAD	
		< JUMPER RESISTOR/FILTER/FERRITE BEAD >	
FL1901	1-216-295-91	SHORT CHIP 0	
FL2201	1-200-038-11	EMI FILTER (ARRAY) (2010)	
FL2202	1-200-038-11	EMI FILTER (ARRAY) (2010)	
FL2203	1-200-038-11	EMI FILTER (ARRAY) (2010)	
FL2204	1-200-038-11	EMI FILTER (ARRAY) (2010)	
FL2205	1-200-038-11	EMI FILTER (ARRAY) (2010)	
FL2206	1-200-038-11	EMI FILTER (ARRAY) (2010)	
FL2207	1-813-657-21	FERRITE 305nH	
		< IC >	
* IC1701	6-714-158-01	IC TW8816DELA3-GR	
IC1731	6-711-047-01	IC S-1132B18-U5T1G	
IC1921	8-759-576-28	IC NJM2533V (TE2)	
IC1981	6-710-160-01	IC MM1566AVBE	
IC1982	8-759-048-67	IC BA3121F (E (PAL), EA)	
IC2001	6-715-373-01	IC R5F3640DDZ95FB (for SERVICE)	
IC2002	6-702-302-01	IC TK11133CSCL-G	
IC2003	6-712-776-01	IC PST8228UL	
IC2004	8-759-639-43	IC BA3834F-E2	
IC2201	6-714-645-01	IC MN103SH23UB	
* IC2203	6-709-937-01	IC TC7SA34FU (T5RSONYF)	
IC2331	6-714-644-01	IC S-1155B12-U5T1G	
IC2401	6-714-600-01	IC NT5SV16M16BS-6KI	
IC2501	6-808-810-01	IC M29W128GL70N6E-N100 (for SERVICE)	
IC2511	6-715-020-01	IC M29W128GL70N6E-N200 (for SERVICE)	
IC2601	6-714-633-01	IC BD9017KV-E2	
IC2602	6-705-337-01	IC TK11150CSCL-G	
		< JACK >	
J1921	1-822-712-21	JACK, PIN 4P (REAR VIDEO OUT, CAMERA IN, AUX1 VIDEO IN, AUX2 VIDEO IN)	

Ref. No.	Part No.	Description	Remark
		< COIL >	
L1701	1-400-675-11	INDUCTOR 10uH	
L1702	1-400-675-11	INDUCTOR 10uH	
L1731	1-400-675-11	INDUCTOR 10uH	
L1732	1-400-791-21	INDUCTOR 10uH	
L1733	1-400-791-21	INDUCTOR 10uH	
L1901	1-400-363-21	INDUCTOR 1uH	
L1902	1-400-363-21	INDUCTOR 1uH	
L1903	1-400-363-21	INDUCTOR 1uH	
L1904	1-481-656-21	INDUCTOR 2.2uH	
L1921	1-481-657-21	INDUCTOR 3.3uH	
L1922	1-481-657-21	INDUCTOR 3.3uH	
L1923	1-481-657-21	INDUCTOR 3.3uH	
L1924	1-400-675-11	INDUCTOR 10uH	
L1951	1-481-657-21	INDUCTOR 3.3uH (E (PAL), EA)	
L1952	1-481-657-21	INDUCTOR 3.3uH (E (PAL), EA)	
L1953	1-481-657-21	INDUCTOR 3.3uH (E (PAL), EA)	
L2001	1-400-675-11	INDUCTOR 10uH	
L2003	1-400-675-11	INDUCTOR 10uH	
L2331	1-400-791-21	INDUCTOR 10uH	
L2332	1-400-791-21	INDUCTOR 10uH	
L2333	1-400-791-21	INDUCTOR 10uH	
L2334	1-400-791-21	INDUCTOR 10uH	
L2336	1-400-791-21	INDUCTOR 10uH	
L2337	1-400-791-21	INDUCTOR 10uH	
L2401	1-481-175-21	INDUCTOR 4.7uH	
L2501	1-400-675-11	INDUCTOR 10uH	
L2511	1-400-675-11	INDUCTOR 10uH	
L2602	1-424-979-21	COIL, CHOKE (SMD) 10uH	
L2603	1-456-750-11	COIL, CHOKE 22uH	
L2604	1-456-750-11	COIL, CHOKE 22uH	
		< TRANSISTOR >	
Q1971	8-729-038-37	TRANSISTOR RT1N141M-TP-1 (E (PAL), EA)	
Q1972	8-729-038-37	TRANSISTOR RT1N141M-TP-1 (E (PAL), EA)	
Q1973	8-729-038-37	TRANSISTOR RT1N141M-TP-1 (E (PAL), EA)	
Q1974	8-729-038-37	TRANSISTOR RT1N141M-TP-1 (E (PAL), EA)	
Q2001	8-729-038-30	TRANSISTOR RT1P141M-TP-1	
Q2002	8-729-038-37	TRANSISTOR RT1N141M-TP-1	
Q2003	8-729-038-30	TRANSISTOR RT1P141M-TP-1	
Q2004	8-729-038-37	TRANSISTOR RT1N141M-TP-1	
Q2005	8-729-038-37	TRANSISTOR RT1N141M-TP-1	
Q2331	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q2351	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q2371	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q2601	6-551-964-01	FET SP8K5FU6TB	
Q2602	6-551-964-01	FET SP8K5FU6TB	
		< RESISTOR/FERRITE BEAD >	
R1701	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1702	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1703	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1704	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1705	1-216-864-11	SHORT CHIP 0	
R1707	1-216-803-11	METAL CHIP 33 5% 1/10W	
R1708	1-216-806-11	METAL CHIP 56 5% 1/10W	
R1709	1-216-806-11	METAL CHIP 56 5% 1/10W	
R1710	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R1711	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R1712	1-216-857-11	METAL CHIP 1M 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R1713	1-216-864-11	SHORT CHIP	0		
R1714	1-218-990-81	SHORT CHIP	0		
R1715	1-218-941-81	METAL CHIP	100	5%	1/16W
R1725	1-216-864-11	SHORT CHIP	0		
R1728	1-218-990-81	SHORT CHIP	0		
R1729	1-218-990-81	SHORT CHIP	0		
R1901	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R1902	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R1903	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R1904	1-216-864-11	SHORT CHIP	0		
R1909	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R1910	1-500-284-21	INDUCTOR, FERRITE BEAD			
R1911	1-216-864-11	SHORT CHIP	0		
R1912	1-500-284-21	INDUCTOR, FERRITE BEAD			
R1913	1-216-864-11	SHORT CHIP	0		
R1914	1-500-284-21	INDUCTOR, FERRITE BEAD			
R1915	1-500-284-21	INDUCTOR, FERRITE BEAD			
R1920	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R1921	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R1922	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R1923	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R1924	1-414-385-21	INDUCTOR, FERRITE BEAD			
R1925	1-414-385-21	INDUCTOR, FERRITE BEAD			
R1926	1-414-385-21	INDUCTOR, FERRITE BEAD			
R1927	1-414-385-21	INDUCTOR, FERRITE BEAD			
R1928	1-216-864-11	SHORT CHIP	0		
R1929	1-216-864-11	SHORT CHIP	0		
R1951	1-211-990-11	METAL CHIP	75	0.5%	1/10W (E (PAL), EA)
R1952	1-211-990-11	METAL CHIP	75	0.5%	1/10W (E (PAL), EA)
R1953	1-211-990-11	METAL CHIP	75	0.5%	1/10W (E (PAL), EA)
R1954	1-216-025-11	METAL CHIP	100	5%	1/10W (E (PAL), EA)
R1955	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W (E (PAL), EA)
R1956	1-216-134-00	METAL CHIP	2.2	5%	1/8W (E (PAL), EA)
R1957	1-216-296-11	SHORT CHIP	0 (E (PAL), EA)		
R1958	1-216-134-00	METAL CHIP	2.2	5%	1/8W (E (PAL), EA)
R1959	1-216-134-00	METAL CHIP	2.2	5%	1/8W (E (PAL), EA)
R1960	1-216-134-00	METAL CHIP	2.2	5%	1/8W (E (PAL), EA)
R1968	1-216-295-91	SHORT CHIP	0 (E (PAL), EA)		
R1969	1-216-821-11	METAL CHIP	1K	5%	1/10W (E (PAL), EA)
R1970	1-216-833-11	METAL CHIP	10K	5%	1/10W (E (PAL), EA)
R1971	1-216-803-11	METAL CHIP	33	5%	1/10W (E (PAL), EA)
R1972	1-216-805-11	METAL CHIP	47	5%	1/10W (E (PAL), EA)
R1973	1-216-833-11	METAL CHIP	10K	5%	1/10W (E (PAL), EA)
R1974	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E (PAL), EA)
R1975	1-216-833-11	METAL CHIP	10K	5%	1/10W (E (PAL), EA)
R1977	1-216-805-11	METAL CHIP	47	5%	1/10W (E (PAL), EA)
R1979	1-216-833-11	METAL CHIP	10K	5%	1/10W (E (PAL), EA)
R1981	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1983	1-211-989-11	METAL CHIP	68	0.5%	1/10W
R1984	1-216-864-11	SHORT CHIP	0 (E (PAL), EA)		
R1985	1-216-864-11	SHORT CHIP	0 (E (PAL), EA)		
R1986	1-216-864-11	SHORT CHIP	0 (E (PAL), EA)		
R1987	1-216-864-11	SHORT CHIP	0 (E (PAL), EA)		
R1988	1-216-296-11	SHORT CHIP	0 (E (PAL), EA)		
R1989	1-216-296-11	SHORT CHIP	0 (E (PAL), EA)		
R1990	1-216-864-11	SHORT CHIP	0 (E (PAL), EA)		
R2001	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2002	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2003	1-216-803-11	METAL CHIP	33	5%	1/10W
R2004	1-216-803-11	METAL CHIP	33	5%	1/10W
R2005	1-216-803-11	METAL CHIP	33	5%	1/10W
R2006	1-216-803-11	METAL CHIP	33	5%	1/10W
R2007	1-216-803-11	METAL CHIP	33	5%	1/10W
R2008	1-216-803-11	METAL CHIP	33	5%	1/10W
R2009	1-216-803-11	METAL CHIP	33	5%	1/10W
R2010	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2012	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2014	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2015	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2016	1-216-809-11	METAL CHIP	100	5%	1/10W
R2017	1-216-864-11	SHORT CHIP	0		
R2018	1-216-864-11	SHORT CHIP	0		
R2019	1-216-864-11	SHORT CHIP	0		
R2020	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2021	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2022	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2023	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2024	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2025	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2026	1-216-833-11	METAL CHIP	10K	5%	1/10W (E (PAL), EA)
R2026	1-216-845-11	METAL CHIP	100K	5%	1/10W (EXCEPT E (PAL), EA)
R2027	1-216-841-11	METAL CHIP	47K	5%	1/10W (E (PAL), EA)
R2027	1-216-845-11	METAL CHIP	100K	5%	1/10W (EXCEPT E (PAL), EA)
R2028	1-216-864-11	SHORT CHIP	0		
R2030	1-216-864-11	SHORT CHIP	0		
R2031	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2035	1-216-864-11	SHORT CHIP	0		
R2036	1-216-803-11	METAL CHIP	33	5%	1/10W
R2037	1-216-803-11	METAL CHIP	33	5%	1/10W
R2038	1-216-295-91	SHORT CHIP	0		
R2039	1-216-803-11	METAL CHIP	33	5%	1/10W
R2040	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2041	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2042	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2043	1-216-803-11	METAL CHIP	33	5%	1/10W
R2044	1-216-803-11	METAL CHIP	33	5%	1/10W
R2045	1-216-803-11	METAL CHIP	33	5%	1/10W
R2047	1-216-864-11	SHORT CHIP	0 (E (PAL), EA)		
R2056	1-216-803-11	METAL CHIP	33	5%	1/10W
R2057	1-216-803-11	METAL CHIP	33	5%	1/10W
R2059	1-216-803-11	METAL CHIP	33	5%	1/10W
R2067	1-216-803-11	METAL CHIP	33	5%	1/10W

Ref. No.	Part No.	Description			Remark
R2068	1-216-803-11	METAL CHIP	33	5%	1/10W
R2069	1-216-803-11	METAL CHIP	33	5%	1/10W
R2070	1-216-803-11	METAL CHIP	33	5%	1/10W
R2071	1-216-803-11	METAL CHIP	33	5%	1/10W
R2072	1-216-803-11	METAL CHIP	33	5%	1/10W
R2073	1-216-803-11	METAL CHIP	33	5%	1/10W
R2075	1-216-864-11	SHORT CHIP	0		
R2076	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2077	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2078	1-216-864-11	SHORT CHIP	0		
R2079	1-216-864-11	SHORT CHIP	0		
R2080	1-216-864-11	SHORT CHIP	0		
R2081	1-216-864-11	SHORT CHIP	0		
R2082	1-216-864-11	SHORT CHIP	0		
R2083	1-216-864-11	SHORT CHIP	0		
R2085	1-216-864-11	SHORT CHIP	0		
R2201	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2202	1-218-990-81	SHORT CHIP	0		
R2203	1-218-935-11	METAL CHIP	33	5%	1/16W
R2206	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2207	1-216-864-11	SHORT CHIP	0		
R2210	1-218-935-11	METAL CHIP	33	5%	1/16W
R2211	1-218-935-11	METAL CHIP	33	5%	1/16W
R2212	1-218-941-81	METAL CHIP	100	5%	1/16W
R2213	1-218-941-81	METAL CHIP	100	5%	1/16W
R2214	1-218-933-11	METAL CHIP	22	5%	1/16W
R2215	1-208-859-81	METAL CHIP	68	0.5%	1/16W
R2216	1-218-935-11	METAL CHIP	33	5%	1/16W
R2217	1-218-935-11	METAL CHIP	33	5%	1/16W
R2218	1-218-935-11	METAL CHIP	33	5%	1/16W
R2219	1-218-935-11	METAL CHIP	33	5%	1/16W
R2220	1-218-935-11	METAL CHIP	33	5%	1/16W
R2221	1-218-935-11	METAL CHIP	33	5%	1/16W
R2222	1-218-935-11	METAL CHIP	33	5%	1/16W
R2223	1-218-933-11	METAL CHIP	22	5%	1/16W
R2227	1-218-935-11	METAL CHIP	33	5%	1/16W
R2230	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2231	1-218-990-81	SHORT CHIP	0		
R2233	1-218-990-81	SHORT CHIP	0		
R2234	1-218-990-81	SHORT CHIP	0		
R2235	1-218-933-11	METAL CHIP	22	5%	1/16W
R2236	1-218-990-81	SHORT CHIP	0		
R2237	1-218-935-11	METAL CHIP	33	5%	1/16W
R2238	1-218-933-11	METAL CHIP	22	5%	1/16W
R2239	1-218-933-11	METAL CHIP	22	5%	1/16W
R2241	1-218-933-11	METAL CHIP	22	5%	1/16W
R2242	1-216-813-11	METAL CHIP	220	5%	1/10W
R2243	1-216-864-11	SHORT CHIP	0		
R2244	1-216-864-11	SHORT CHIP	0		
R2245	1-218-990-81	SHORT CHIP	0		
R2246	1-218-990-81	SHORT CHIP	0		
R2247	1-218-990-81	SHORT CHIP	0		
R2248	1-218-990-81	SHORT CHIP	0		
R2249	1-218-990-81	SHORT CHIP	0		
R2264	1-218-990-81	SHORT CHIP	0		
R2265	1-218-990-81	SHORT CHIP	0		
R2266	1-218-990-81	SHORT CHIP	0		
R2267	1-218-990-81	SHORT CHIP	0		
R2268	1-218-990-81	SHORT CHIP	0		
R2269	1-218-990-81	SHORT CHIP	0		

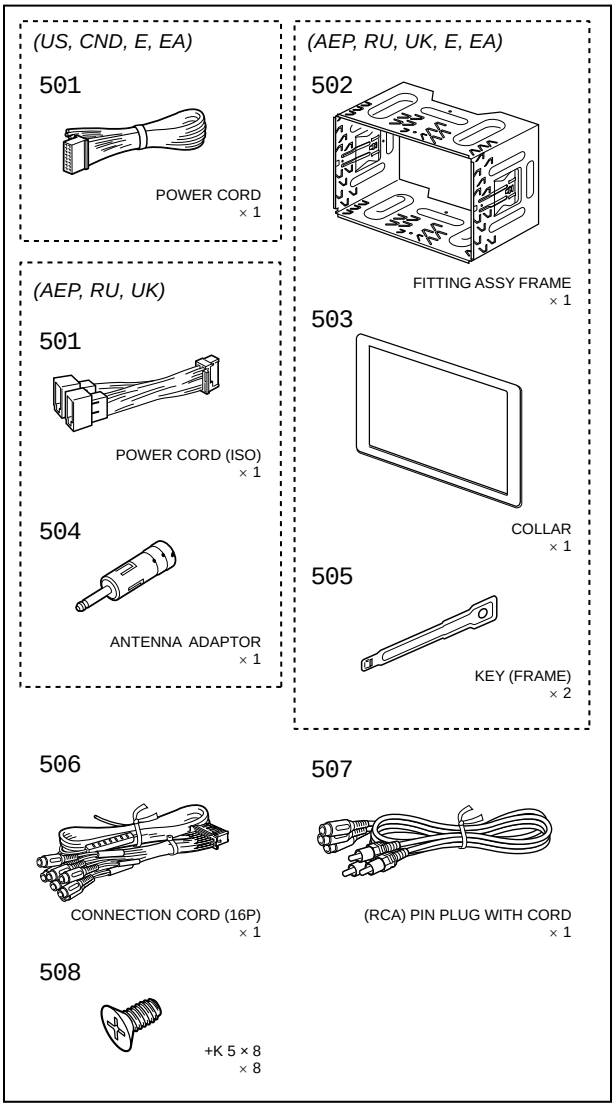
Ref. No.	Part No.	Description			Remark
R2270	1-218-990-81	SHORT CHIP	0		
R2272	1-218-990-81	SHORT CHIP	0		
R2273	1-218-990-81	SHORT CHIP	0		
R2274	1-218-990-81	SHORT CHIP	0		
R2275	1-218-990-81	SHORT CHIP	0		
R2277	1-218-935-11	METAL CHIP	33	5%	1/16W
R2278	1-218-990-81	SHORT CHIP	0		
R2351	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2352	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2354	1-216-817-11	METAL CHIP	470	5%	1/10W
R2371	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2372	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2373	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2374	1-216-817-11	METAL CHIP	470	5%	1/10W
R2391	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2392	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2393	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2394	1-216-817-11	METAL CHIP	470	5%	1/10W
R2401	1-218-941-81	METAL CHIP	100	5%	1/16W
R2402	1-218-941-81	METAL CHIP	100	5%	1/16W
R2403	1-218-941-81	METAL CHIP	100	5%	1/16W
R2404	1-218-941-81	METAL CHIP	100	5%	1/16W
R2405	1-218-941-81	METAL CHIP	100	5%	1/16W
R2406	1-218-941-81	METAL CHIP	100	5%	1/16W
R2407	1-218-941-81	METAL CHIP	100	5%	1/16W
R2408	1-218-941-81	METAL CHIP	100	5%	1/16W
R2409	1-218-941-81	METAL CHIP	100	5%	1/16W
R2410	1-216-864-11	SHORT CHIP	0		
R2411	1-218-933-11	METAL CHIP	22	5%	1/16W
R2412	1-218-941-81	METAL CHIP	100	5%	1/16W
R2413	1-216-864-11	SHORT CHIP	0		
R2414	1-216-864-11	SHORT CHIP	0		
R2501	1-218-933-11	METAL CHIP	22	5%	1/16W
R2502	1-218-935-11	METAL CHIP	33	5%	1/16W
R2503	1-218-933-11	METAL CHIP	22	5%	1/16W
R2504	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2506	1-218-933-11	METAL CHIP	22	5%	1/16W
R2507	1-218-933-11	METAL CHIP	22	5%	1/16W
R2508	1-218-990-81	SHORT CHIP	0		
R2509	1-218-933-11	METAL CHIP	22	5%	1/16W
R2510	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2511	1-218-933-11	METAL CHIP	22	5%	1/16W
R2512	1-218-933-11	METAL CHIP	22	5%	1/16W
R2513	1-218-935-11	METAL CHIP	33	5%	1/16W
R2514	1-218-933-11	METAL CHIP	22	5%	1/16W
R2515	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2516	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2517	1-218-933-11	METAL CHIP	22	5%	1/16W
R2518	1-218-933-11	METAL CHIP	22	5%	1/16W
R2519	1-218-990-81	SHORT CHIP	0		
R2520	1-218-933-11	METAL CHIP	22	5%	1/16W
R2521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2522	1-218-933-11	METAL CHIP	22	5%	1/16W
R2601	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2602	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2603	1-216-835-11	METAL CHIP	15K	5%	1/10W
R2604	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2605	1-216-812-11	METAL CHIP	180	5%	1/10W

Ref. No.	Part No.	Description			Remark
R2606	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2607	1-216-864-11	SHORT CHIP	0		
R2608	1-216-864-11	SHORT CHIP	0		
R2609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2610	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R2611	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2612	1-216-814-11	METAL CHIP	270	5%	1/10W
R2613	1-246-335-11	METAL CHIP	0.012	1%	1/2W
R2614	1-246-335-11	METAL CHIP	0.012	1%	1/2W
R2615	1-216-864-11	SHORT CHIP	0		
R2616	1-246-335-11	METAL CHIP	0.012	1%	1/2W
R2617	1-246-335-11	METAL CHIP	0.012	1%	1/2W
R2618	1-216-864-11	SHORT CHIP	0		
R2619	1-216-809-11	METAL CHIP	100	5%	1/10W
R2620	1-216-809-11	METAL CHIP	100	5%	1/10W
R2621	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2622	1-216-864-11	SHORT CHIP	0		
R2623	1-216-864-11	SHORT CHIP	0		
R2624	1-216-864-11	SHORT CHIP	0		
R2625	1-216-864-11	SHORT CHIP	0		
R2626	1-216-864-11	SHORT CHIP	0		
R2630	1-216-864-11	SHORT CHIP	0		
R2636	1-216-864-11	SHORT CHIP	0		
R2637	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)			
R2638	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2639	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2640	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)			
R2641	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)			
R2642	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)			
R2643	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)			
R2644	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2646	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2647	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2648	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2649	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2650	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2651	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2653	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2654	1-500-329-21	INDUCTOR, FERRITE BEAD			
R2655	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2670	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2671	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)			
R2679	1-216-864-11	SHORT CHIP	0		
R2680	1-216-864-11	SHORT CHIP	0		
R2681	1-218-990-81	SHORT CHIP	0		
R2682	1-218-990-81	SHORT CHIP	0		
R9501	1-216-295-91	SHORT CHIP	0		
R9502	1-216-295-91	SHORT CHIP	0		
R9503	1-216-295-91	SHORT CHIP	0		
R9504	1-216-295-91	SHORT CHIP	0		
R9505	1-216-295-91	SHORT CHIP	0		
R9506	1-216-295-91	SHORT CHIP	0		
R9507	1-216-864-11	SHORT CHIP	0		
R9901	1-216-295-91	SHORT CHIP	0		
R9902	1-216-295-91	SHORT CHIP	0		
R9903	1-216-295-91	SHORT CHIP	0		
R9904	1-216-864-11	SHORT CHIP	0		
R9905	1-216-295-91	SHORT CHIP	0		
R9906	1-216-295-91	SHORT CHIP	0		
R9907	1-216-295-91	SHORT CHIP	0		
R9908	1-216-295-91	SHORT CHIP	0		
R9909	1-216-295-91	SHORT CHIP	0		
R9910	1-216-295-91	SHORT CHIP	0		
R9911	1-216-295-91	SHORT CHIP	0		
		< COMPOSITION CIRCUIT BLOCK >			
* RB1701	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1702	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1703	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1704	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1705	1-234-714-11	RES, NETWORK 56 (1005X4)			
* RB1706	1-234-714-11	RES, NETWORK 56 (1005X4)			
RB2201	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB2202	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB2203	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB2204	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB2205	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB2206	1-234-371-21	RES, NETWORK 47 (1005X4)			
RB2207	1-234-369-21	RES, NETWORK 10 (1005X4)			
RB2208	1-234-369-21	RES, NETWORK 10 (1005X4)			
RB2209	1-234-369-21	RES, NETWORK 10 (1005X4)			
RB2210	1-234-369-21	RES, NETWORK 10 (1005X4)			
RB2215	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2216	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2217	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2218	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2219	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2401	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB2402	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB2403	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB2404	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB2405	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB2406	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB2407	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB2501	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2502	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2503	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2504	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2505	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2506	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2507	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2508	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2509	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2511	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2512	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2513	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2514	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2515	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2516	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2517	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2518	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2519	1-234-370-21	RES, NETWORK 22 (1005X4)			
		< THERMISTOR >			
TH2001	1-810-812-21	THERMISTOR, NTC (1608)			
		< VARISTOR >			
VD1971	1-802-090-21	VARISTOR, CHIP (E (PAL), EA)			
VD1972	1-802-090-21	VARISTOR, CHIP (E (PAL), EA)			

Note: R2680 has been deleted in the midway of production.

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X1701	1-814-308-11	VIBRATOR, CRYSTAL (27MHz)	
X2001	1-795-059-21	VIBRATOR, CERAMIC (6MHz)	
X2201	1-814-334-11	QUARTZ CRYSTAL UNITS (33MHz)	
**********			
		MISCELLANEOUS	
		**********	
2	1-481-687-11	CORE, FERRITE	
3	1-837-116-31	CABLE, FLEXIBLE FLAT (60 CORE)	
5	1-828-543-11	CORD (WITH CONNECTOR) (POWER CORD (ISO)) (AEP, RU, UK)	
5	1-834-204-21	CONNECTION CODE FOR AUTOMOBILE (POWER CORD) (US, CND, E, EA)	
6	1-837-303-12	CORD, CONNECTION (16P) (REVERSE IN/ AUX1 AUDIO IN/FRONT AUDIO OUT/ REAR AUDIO OUT/SUB OUT)	
103	1-837-307-11	CONNECTION CORD FOR AUTOMOBILE (USB)	
104	1-833-835-41	CONNECTION CORD FOR AUTOMOBILE (AUX2 AUDIO IN)	
151	1-837-115-21	CABLE, FLEXIBLE FLAT (40 CORE)	
153	1-837-119-21	CABLE, FLEXIBLE FLAT (40 CORE)	
208	A-1732-663-A	CHASSIS (M613) COMPLETE ASSY (Including loading motor (M1))	
⚠ 210	A-1560-594-B	CHASSIS (OP, ZA) COMPLETE ASSY (Including optical pick-up (KHS-360A))	
212	1-838-748-11	CORD WITH CONNECTOR	
F801	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)	
LCD1401	1-811-003-11	DISPLAY PANEL, LIQUID CRYSTAL	
M801	1-787-764-11	FAN, DC	
TPS1401	1-811-004-11	TOUCH PANEL	
**********			
		ACCESSORIES	
		**********	
	1-487-638-12	REMOTE COMMANDER (RM-X170)	
	4-163-772-01	DISC, APPLICATION (CD-ROM: SensMe™ Setup, Content Transfer)	
	4-164-312-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (US, CND)	
	4-164-312-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, ITALIAN) (AEP, UK)	
	4-164-312-31	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH) (AEP, UK)	
	4-164-312-41	MANUAL, INSTRUCTION (ENGLISH) (E)	
	4-164-312-51	MANUAL, INSTRUCTION (SPANISH) (E (NTSC))	
	4-164-312-61	MANUAL, INSTRUCTION (RUSSIAN, UKRAINIAN) (RU)	
	4-164-312-71	MANUAL, INSTRUCTION (ENGLISH, ARABIC) (EA)	
	4-164-313-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH) (US, CND)	
	4-164-313-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, ITALIAN) (AEP, UK)	
	4-164-313-31	MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN, DUTCH) (AEP, UK)	
	4-164-313-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (E)	
	4-164-313-51	MANUAL, INSTRUCTION, INSTALL (RUSSIAN, UKRAINIAN) (RU)	
	4-164-313-61	MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC) (EA)	
**********			

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
**********			
501	1-834-204-21	CONNECTION CODE FOR AUTOMOBILE (POWER CORD) (US, CND, E, EA)	
501	1-828-543-11	CORD (WITH CONNECTOR) (POWER CORD (ISO)) (AEP, RU, UK)	
502	X-2514-519-2	FRAME, FITTING ASSY (AEP, RU, UK, E, EA)	
503	4-148-662-01	COLLAR (AEP, RU, UK, E, EA)	
504	1-465-459-41	ADAPTOR, ANTENNA (AEP, RU, UK)	
505	3-876-675-01	KEY (FRAME) (1 piece) (AEP, RU, UK, E, EA)	
506	1-837-303-12	CORD, CONNECTION (16P) (REVERSE IN/ AUX1 AUDIO IN/FRONT AUDIO OUT/ REAR AUDIO OUT/SUB OUT)	
507	1-834-029-11	CORD, (RCA) PIN PLUG WITH (Extension cord for AUX audio/video input terminals)	
508	X-2177-512-1	SCREW ASSY (2DIN) (8 pieces, 1 set)	



MEMO

REVISION HISTORY

Checking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2010.02	New
1.1	2010.06	Addition of Saudi Arabia model (XAV-60) Change of SERVO board (Suffix-22) Revision of electric parts (SMR-10015)
1.2	2010.11	Addition of “NOTE OF REPLACING THE LIQUID CRYSTAL DISPLAY PANEL (LCD1401)” to SERVICING NOTES Addition of complete AUDIO board and IC504 on the AUDIO board to the necessary item of V-COM adjustment and flicker adjustment Addition of Ref. No. 105 on EXPLODED VIEWS Change of SERVO (Suffix-23) and AUDIO (Suffix-12) boards (SUPPLEMENT-1) (SMR-10061)