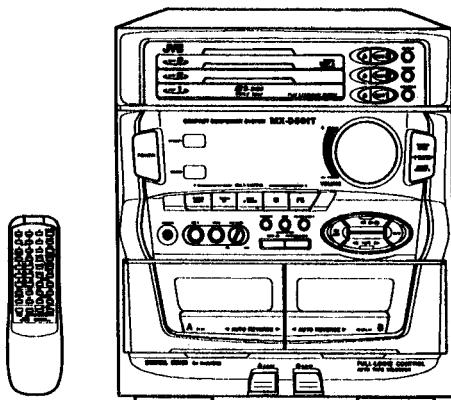


JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

MX-D501T



This Service manual have not "Location of Main Parts", "Outline of Main IC", "Analytic Drawing for CD traverse mechanism and Cassette mechanism etc.", "Block Diagram" and so on. These item should be used in conjunction with service manual for MX-D401T all version(Issue No. 10039).

Area Suffix

A	Australia
B	U.K.
C	Canada
E	Continental Europe
EN	North Europe
G	Germany
J	U.S.A.
UB	Hong.Kong
UP	Korea
US	Singapore
UT	Formosa
U	Other Areas
VX	Eastern Europe

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1. Safety Precautions

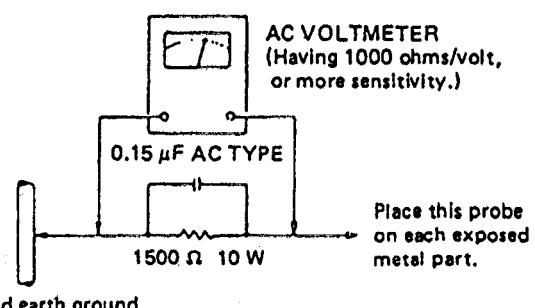
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original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

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

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a $0.15 \mu F$ AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



Warning (Except to C/J/U version)

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

CAUTION

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

2. Safety Precaution about MX-D501T

IMPORTANT FOR LASER PRODUCTS

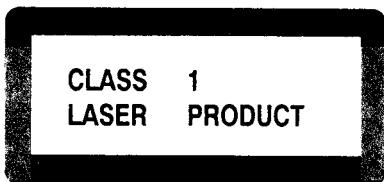
PRECAUTIONS (For B/E/EN/G/VX/US Version)

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IMPORTANT FOR LASER PRODUCTS

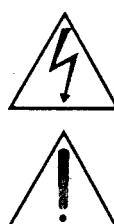
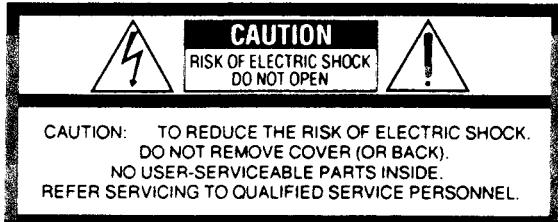
REPRODUCTION OF LABELS

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE



② WARNING LABEL, PLACED INSIDE THE UNIT

DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	WARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Bevara ej strålen. (f)	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)	VARO: Avattaessa ja suojaulkuissa olluttaa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)
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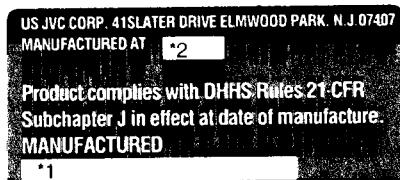


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

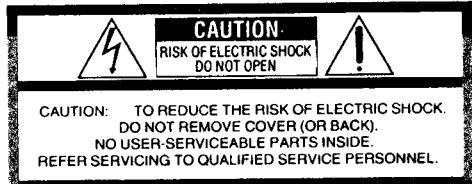
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**IMPORTANT FOR LASER PRODUCTS
PRECAUTIONS (For C/J/U Version)**

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IMPORTANT FOR LASER PRODUCTS**REPRODUCTION OF LABELS****Notes:**

- * 1 The date of manufacture.
- * 2 The ID code of manufacturing plant.

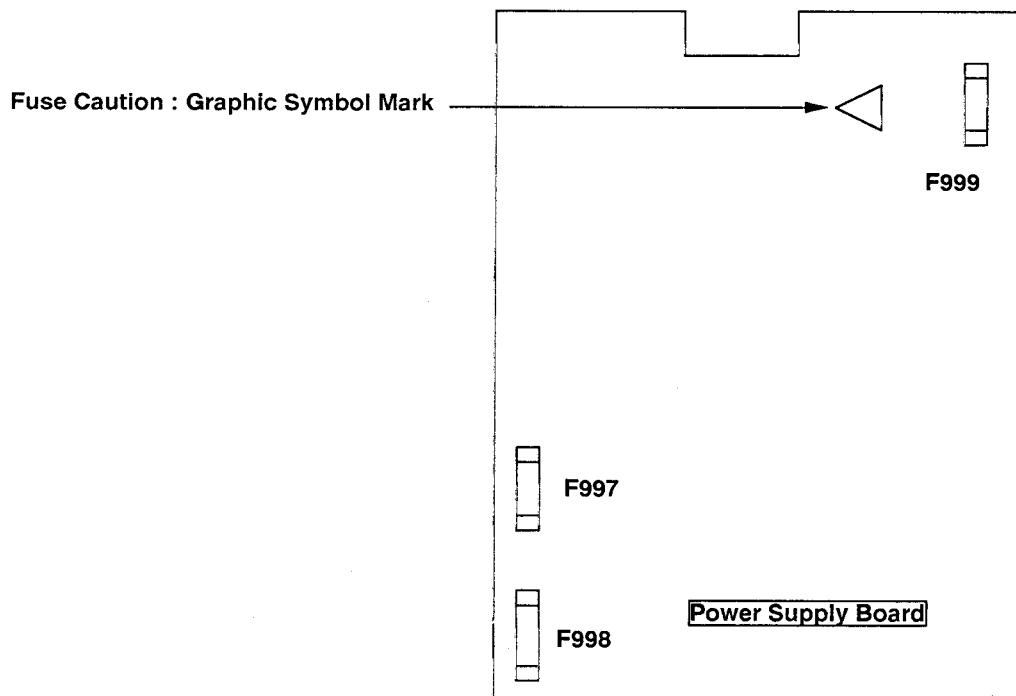


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

■ IMPORTANT (For C/J Version)
: Fuse Replacement Marking Check



MX-D501T C/J

Full Fusereplacement Marking

Graphic symbol mark (This symbol means fast blow type fuse.)



should be read as follows:

FUSE CAUTION**F999 : FOR CONTINUED PROTECTION**

AGAINST RISK OF FIRE; REPLACE ONLY WITH
SAME TYPE 1.0-A, 250-V FUSE.

F998 : FOR CONTINUED PROTECTION

F997 AGAINST RISK OF FIRE, REPLACE ONLY WITH
SAME TYPE 1.25-A, 250-V FUSE.

MX-D501T C/J

Marquage Pour Le Remplacement Complet De Fusible

Le symbole graphique (Ce symbole signifie fusible de type à fusion rapide.)



doit être interprété comme suit:

PRECAUTIONS SUR LES FUSIBLES**F999: POUR UNE PROTECTION CONTINUE**

CONTRE DES RISQUES D'INCENDIE,
REPLACER SEULEMENT PAR UN FUSIBLE
DU MEME TYPE 1.0-A, 250-V.

F998: POUR UNE PROTECTION CONTINUE

F997CONTRE DES RISQUES D'INCENDIE,
REPLACER SEULEMENT PAR UN FUSIBLE
DU MEME TYPE 1.25-A, 250-V.

3. Instructions

JVC

Warnings, Cautions and Others
Avisos, precauciones y otras notas
Advertências, precauções e outras notas
警告・注意及其他須知事項
تحذيرات، تحذيرات وتنبيهات اخري

IMPORTANT for the U.K.
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for your power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.
BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:
IMPORTANT.

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

If this product is not supplied fitted with a mains plug then follow the instructions given below:
IMPORTANT.

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

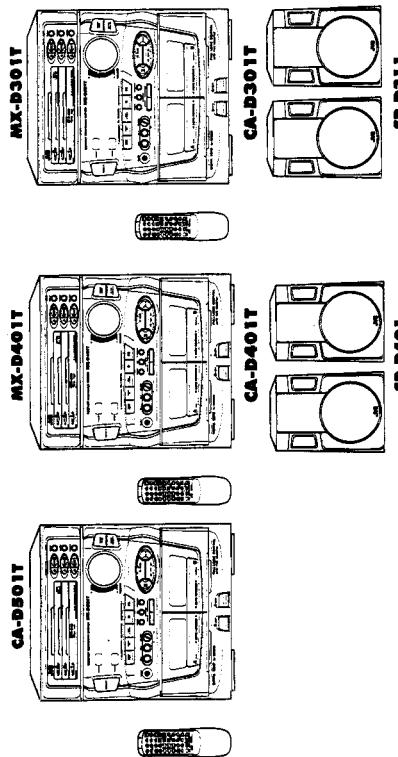
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

COMPACT COMPONENT SYSTEM SISTEMA DE COMPONENTES COMPACTO SISTEMA DE COMPONENTE COMPACTO

CA-D501T/MX-D401T/MX-D301T

Consists of CA-D401T and SP-D401
Consists of CA-D301T and SP-D301
Consists of CA-D501T and SP-D501



/INSTRUCCIONES MANUAL DE INSTRUCCIONES INSTRUÇÕES

For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.
Model No. _____
Serial No. _____

PART No. FMUN902-181M
[U, UT, US, UB]

Caution — POWER switch!
Disconnect the mains plug to shut the power off completely. The POWER switch in any position does not disconnect the mains line. The power can be remote controlled.

Atenção — Interruptor POWER!
Desconectar o cabo de alimentação para desactivar a alimentação totalmente. Qualquer que seja a posição do ajuste do interruptor POWER, a alimentação não é completamente cortada. A alimentação pode ser controlada remotamente.

Atención — Interruptor POWER!
Desconecte el cable de alimentación para interrumpir la alimentación completamente. Cuálquier que sea la posición de ajuste del interruptor POWER, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

注意 — 電源スイッチ!
電源コードを抜くことで電源を完全に切ります。電源スイッチの位置によっては、電源が切れないことがあります。電源はリモコンで操作できます。

注意
為「滅低觸電・火災等危險」
1. 準物怕自削下墻線割，蓋子或機殼。
2. 切勿讓本機受雨淋或置潮濕環境中。
注意
1. 不得將本機受雨淋或置潮濕環境中。
2. 不得將本機受雨淋或置潮濕環境中。
注意
1. 不得將本機受雨淋或置潮濕環境中。
2. 不得將本機受雨淋或置潮濕環境中。

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

PRECAUCIÓN
Para reducir riesgos de choques eléctricos, incendio, etc.:
1. No retirar tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

PRECAUÇÃO
Para reduzir riscos de choques elétricos, incêndio, etc.:
1. Não remova parafusos e tampas ou desmonte a caixa.
2. Não exponha este aparelho à chuva nem à umidade.

IMPORTANT FOR LASER PRODUCTS / IMPORTANTE PARA PRODUCTOS LÁSER / IMPOTANTE PARA PRODUTOS LÁSER

REPRODUCTION OF LABELS / REPRODUCCIÓN DE ETIQUETAS / REPRODUÇÃO DE ETIQUETAS

標簽內容說明 / DIRECTIONS FOR LABELS

註意事項 / NOTAS

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE

② WARNING LABEL, PLACED INSIDE THE UNIT
SUITE

① ETIQUETA DE CLASIFICACIÓN, PEGADA EN LA PARTE POSTERIOR DE LA CAJA

① ETIQUETA DE CLASIFICACIÓN LOCALIZADA NA PARTE POSTERIOR DA CAIXA DO APARELHO.

① 分類標簽，貼在機殼背後。

① نصيحة الصنف، موضحة على الرear الذي

الجذع.

① 警告標簽，貼於機內。



1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and Interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

1. PRODUCTO LÁSER CLASE 1

2. PELIGRO: En el interior hay radiación láser invisible. Evite el contacto directo con el haz.

3. PRECAUCIÓN: No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; dejé todo servicio técnico en manos de personal calificado.

1. PRODUTO LÁSER CLASSE 1

2. PERIGO: O laser emite uma radiação invisível que é perigosa, caso o aparelho esteja aberto e a trava, imprópria ou danificada. Evite exposição direta ao feixe dos raios.

3. CUIDADO: Não abrir a caixa do aparelho. Não existem peças reparáveis pelo usuário na parte interna da unidade. Solicite assistência técnica somente a pessoal técnico qualificado.

Caution: Proper Ventilation
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

- 1 Front: No obstructions and open spacing.
- 2 Sides/ Top/ Back: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

Precaución: el aparato debe estar bien ventilado
Para evitar posibles riesgos de descargas eléctricas e incendios, e prevenir averías, instale o aparato como sigue:

- 1 Parte delantera: No ponga nada delante, deje el espacio libre.
- 2 Laterales/ parte superior/ parte trasera: No se deberá colocar nada en las áreas y las distancias que se detallan a continuación.
- 3 Parte inferior: Coloque el aparato sobre una superficie recta. Debe haber buena circulación de aire; para ello, coloque el aparato sobre una base a una altura mínima de 10 cm.

Precaução: Ventilação adequada
Para evitar riscos de choques elétricos e incêndios, e prevenir avarias, instale o aparelho como segue:

- 1 Parte frontal: Sem obstruções e espaços abertos.
- 2 Partes laterais/Tampa/Porta: Nenhuma distância deve ser colocada entre as áreas cujas dimensões são indicadas abaixo.
- 3 Parte inferior: Instale-o sobre uma superfície plana. Deverá ser mantido espaço suficiente para a ventilação se este for instalado numa posição que tenha uma altura de 10 cm ou mais.

注意：正しく通風する

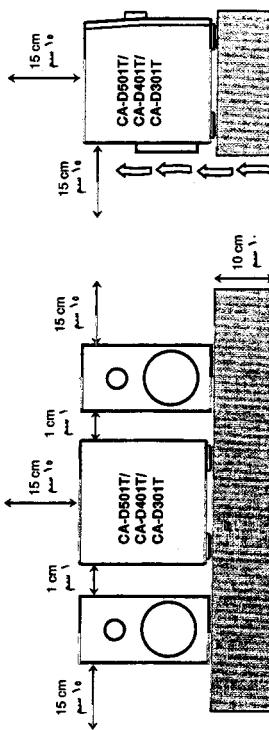
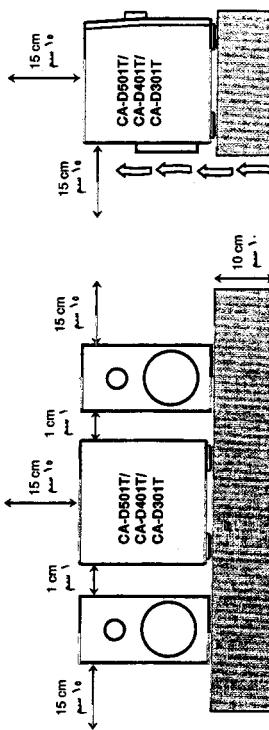
1. 前面：

2. 侧面/背面：

3. 底面： 請勿將本機置於一塊平面之上。請勿在一塊平面之上置於一個高度為10公分或以上的架上。

لتنفس: التهوية الكافية وتحظر المروحة والثلاجات، تم تركيب الجهاز كما هو موضح أدناه:

١. الوجهة: عدم وجود العائق، عدم وجود المروحة.
٢. الجوانب: عدم وجود المسافات في المواقع الموصى بها بمقدار ١٠ سم أو أكثر.
٣. السفينة: تثبيت الجهاز على العامل بارتفاع ١٠ سم أو أكثر.

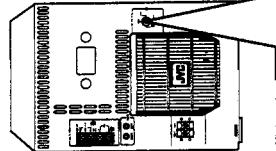


Thank you for purchasing the JVC Compact Component System.
We hope it will be a valued addition to your home, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
Here you will find all the information you need to set up and use the system.
For questions that are not be answered in the manual, please contact your dealer.

Features

Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, Australia, and U.K.)
Instrucción sobre la línea de la red (CA) (no aplicable para Europa, EE.UU., Canadá, Australia, ni el Grâ-Bretaña)
Instrução sobre a tensão da rede eléctrica (CA) (não aplicável para a Europa, os E.U.A. o Canadá, a Austrália e o Reino Unido)
主 (AC) 電源線路說明 (不適用於歐洲、美國、加拿大、澳洲及英國型號)
تutorials التيار الرئيسي (المزدوج) (لا ينطبق لأوروبا وأمريكا وكندا وأستراليا والمملكة المتحدة)

IMPORTANT para la línea de la red (CA)
BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.



IMPORTANT para la línea de la red (CA)
ANTES DE ENCHUFAR EL EQUIPO, compruebe si la tensión de la línea de la red (CA) corresponde con la posición del selector de tensión situado en la parte exterior del equipo, y si es diferente, reajuste el selector de tensión para evitar el riesgo de incendios/descargas eléctricas.

IMPORTANT para a ligação à rede (CA)
ANTES DE LIGAR O APARELHO A UMA TOMADA DA REDE, verifique se a tensão da rede CA corresponde à posição do seletor de voltagem localizado na parte exterior desse equipamento. Caso não corresponda, reajuste o seletor de voltagem a fim de evitar avarias ou riscos de incêndio e choque elétrico.

IMPORTANT pour la ligne de la red (CA)
AVANT DE BRANCHER L'APPAREIL SUR LA SOURCE D'ALIMENTATION, vérifiez si la tension de la ligne de la red (CA) correspond à la position du sélecteur de tension située à l'extérieur de l'appareil. Si ce n'est pas le cas, réglez le sélecteur de tension pour éviter tout risque d'incendie ou de décharge électrique.

- The controls and operations have been redesigned to make them very easy to use, so you can spend your time listening to music.
- With the One Touch Operation feature of JVC's COMPU PLAY, you can turn on the System and start the radio, the Cassette Deck, or the CD Player with a single touch.
- To get such great sound from such a compact package, the System has:
- Programmed sound mode includes live surround effects D. CLUB, HALL, and STADIUM. It also includes S.E.A. (Sound Effect Amplifier) effects ROCK, CLASSIC, and POP.
- CD changer function can operate 3 discs.
- Disks can be changed during play using the TRIPLE TRAY.
- Includes a timer for recording broadcasts while you are out, and an easy-to-use Sleep timer.
- Continuous, random, or program play of 3 discs.
- You can use conventional tapes and CDs for Karaoke with the voice masking system. With an optional microphone, you can replace the lead singer's voice on your favorite songs with your own.
- Digital Echo applied to your voice through the microphone gives you a professional sound.

How This Manual Is Organized

- In this manual we have incorporated some special features:
- Basic information that is the same for many different functions is grouped in one place, and not repeated in each procedure. For instance, in the section on playing a CD, we do not repeat the information about setting the volume and the sound conditions, which are discussed in the Common Operations section.
 - Name of buttons and controls are written in all capital letters like this: SOUND MODE.
 - When we are talking about the Function, rather than the BUTTON or DISPLAY, only the first letter is capitalized.
- The manual has a table of contents to help you quickly look up what you want to know. We've enjoyed making this manual for you, and hope you will use it to enjoy the sound and many features built into your System.

IMPORTANT CAUTIONS

- 1. Installation of the Unit**
- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F)
 - Leave sufficient distance between the Unit and a TV.
 - Do not use the Unit in a place subject to vibrations.
- 2. Power cord**
- Do not handle the power cord with wet hands!
 - Some power (12 watts) is always consumed as long as the power cord is connected to the wall outlet.
 - When unplugging the Unit from the wall outlet, always pull the plug, not the power cord.
- 3. Malfunctions, etc.**
- There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
 - Do not insert any metallic object into the Unit.

JVC
VICTOR COMPANY OF JAPAN, LIMITED

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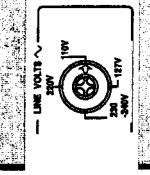
Getting Started

Accessories

Check that you have all of the following items, which are supplied with the System.

- AM Loop Antenna (1)
- Remote Control (1)
- Batteries (2)
- FM Wire Antenna (1)
- AC Plug Adaptor (except for Hong Kong) (1)

If any of these items is missing, contact your dealer immediately.

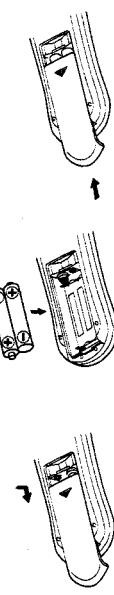


Set the VOLTAGE SELECTOR Switch

How To Put Batteries In the Remote Control

Match the polarity (+ and -) on the batteries with the + and - markings in the battery compartment.

R6P (SUM-3) / AA (15F)

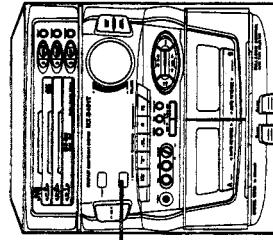


CAUTION: Handle batteries properly.

- To avoid battery leakage or explosion:
 - Remove batteries when the Remote Control will not be used for a long time.
 - When you need to replace the batteries, replace both batteries at the same time with new ones.
 - Don't use an old battery with a new one.
 - Don't use different types of batteries together.

Using the Remote Control

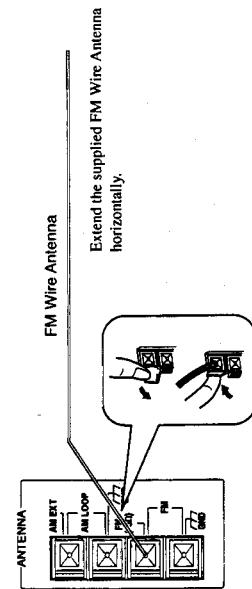
The Remote Control makes it easy to use many of the functions of the System from a distance of up to 7m (23 feet) away.
You need to point the Remote Control at the remote sensor on the System's front panel.



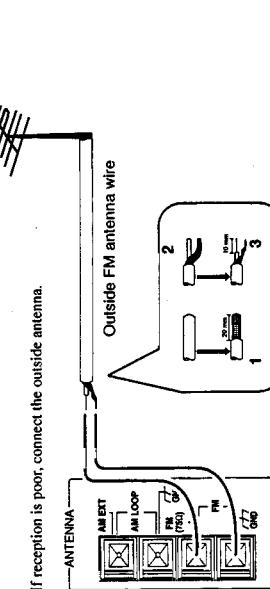
CAUTION: Make all connections before plugging the Unit into an AC power outlet.

Connecting the FM Antenna

Using the Supplied Wire Antenna



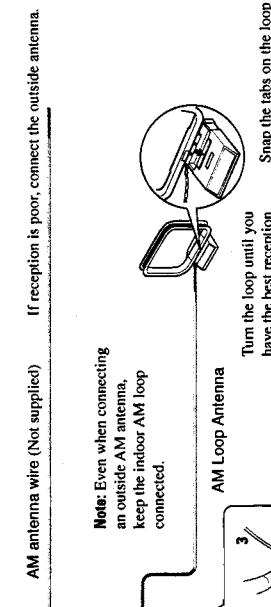
Using an FM 75-Ohm Antenna Wire (Not Supplied)



Before attaching a 75 ohm coaxial lead (the kind with a round wire going to an outside antenna), disconnect the supplied FM Wire Antenna.

CAUTION: To avoid noise, keep antennas away from metallic parts of the System, connecting cord and the AC power cord.

Connecting the AM Antenna



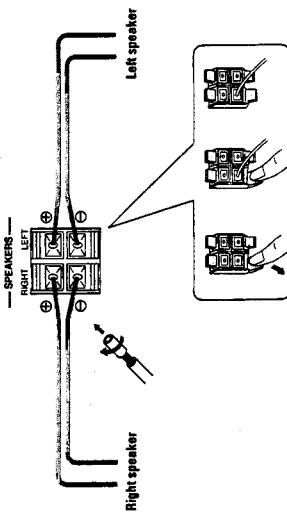
Snaps the tabs on the loop into the slots of the base to attach the AM Loop.

CAUTION: Make all connections before plugging the Unit into an AC power outlet.

Connecting the Speakers (CA-D501T)

■ Please refer to instructions for speakers as well when you connect speakers.

- For each speaker, connect one end of the speaker wire to the speaker terminals on the back of the CA-D501T and the other end to the speaker.
- Open each of the terminals and insert the speaker wires firmly (be sure to remove the insulation at the end of each wire first), then close the terminals.
 - Connect the red (+) and black (-) terminals of the right side speaker to the red (+) and black (-) terminals marked RIGHT on the CA-D501T.
 - Connect the red (+) and black (-) terminals of the left side speaker to the red (+) and black (-) terminals marked LEFT on the CA-D501T.



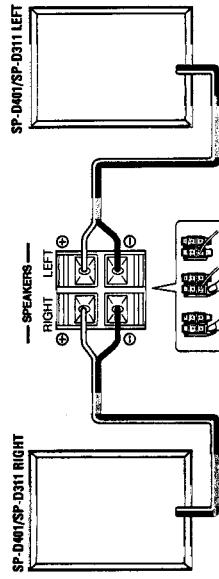
IMPORTANT: Use speakers with the correct impedance only. The correct impedance is indicated on the back panel.

CAUTION: If a TV is installed near speakers, the TV may display irregular colours. In this case, set the speakers away from the TV.

Connecting the Speakers (MX-D401T / MX-D301T)

■ Please refer to instructions for speakers as well when you connect speakers.

- For each speaker, connect one end of the speaker wire to the speaker terminals on the back of the System.
- Open each of the terminals and insert the speaker wires firmly, then close the terminals.
 - Connect the red (+) and black (-) terminals of the right side speaker to the red (+) and black (-) terminals marked RIGHT on the System.
 - Connect the red (+) and black (-) terminals of the left side speaker to the red (+) and black (-) terminals marked LEFT on the System.

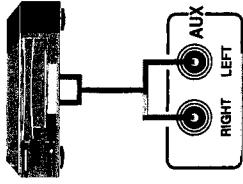


IMPORTANT: Use speakers with the correct impedance only. The correct impedance is indicated on the back panel.

CAUTION: If a TV is installed near speakers, the TV may display irregular colours. In this case, set the speakers away from the TV.

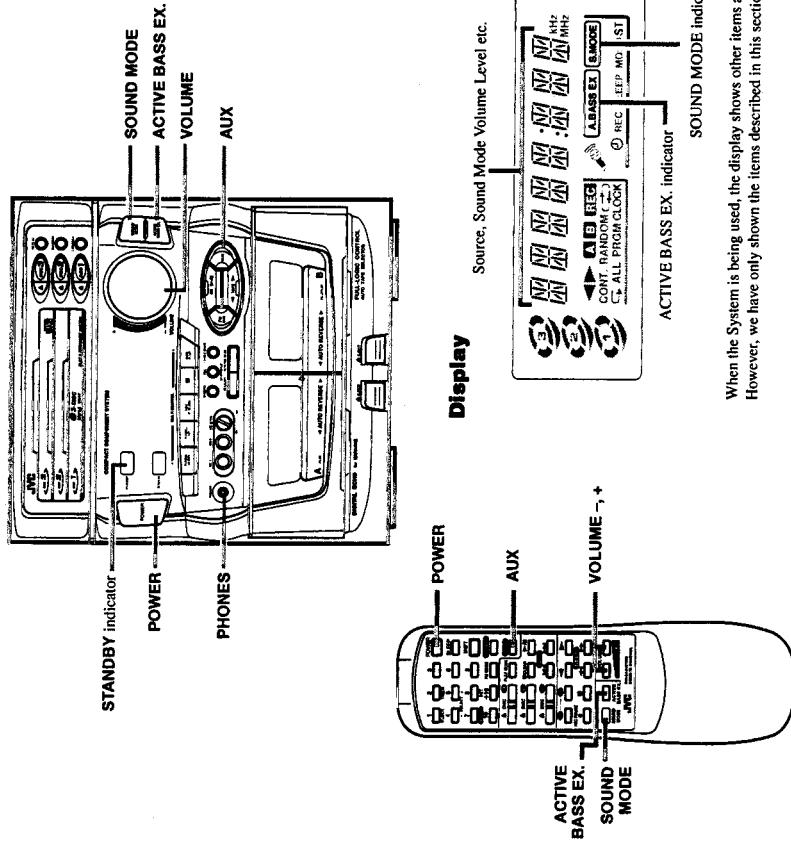
■ Connecting Auxiliary Equipment

VCR or other equipment
To listen to this source, press the AUX button.



Now you can plug the AC power cord into the wall outlet, and your System is at your command!!

■ Common Operations



■ Turning the Power On and Off

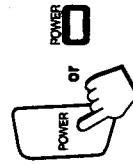
Turning the System On

Press the POWER button.
The STANDBY indicator lights up and the display is blank, except for the clock display.

The System comes on ready to continue in the mode it was in when the power was last turned off.

If the last thing you were doing was listening to a tape in Deck B, you are now ready to listen to a tape again in Deck B, or you can change to another source.

If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.



On the Remote Control

FM/AM button
AUX button
CD control ▶/II button
CD Player DISC-1 to DISC-3 buttons
CD Player Open/Close (▲) buttons
FM/AM button
Tape ▶ button
AUX button

Turning the System Off

Press the POWER button again.
The STANDBY indicator lights up and the display is blank, except for the clock display.

Some power (12 watts) is always consumed even though power is turned off (called Standby Mode).

To switch off the Unit completely, unplug the AC power cord from the AC outlet. When you unplug the AC power cord, the clock will be reset to 0:00 immediately, and preset Tuner stations will be erased after a few days.

Adjusting the Volume

Turn the VOLUME control clockwise to increase the volume or anticlockwise to decrease it. Turning the VOLUME control quickly also adjusts the volume level quickly. When using the Remote Control press the VOLUME + button to increase the volume or press the VOLUME - button to decrease it. You can adjust the volume level between 0 and 50.



CAUTION: The Volume cannot be adjusted while the Unit is in STANDBY mode. DO NOT turn on the Unit and/or start playing any source without setting the VOLUME control to 0; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones.

For private listening
Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.

Reinforcing the Bass Sound

The richness and fullness of the bass sound is maintained regardless of how low you set the volume. You can use this effect only for playback.

To get the effect, press the ACTIVE BASS EX (Active Bass Extension) button. The frame around the "A. BASS EX" indicator lights up.



A.BASS EX

To cancel the effect, press the button again. The frame around the "A. BASS EX" indicator goes out.



A.BASS EX

Sound Modes

The System has some preset sound effects that give you control of the way your music sounds, so you can tailor it for your room and for the quality of the source. We can give you some idea of how each one affects the music, but the only way to really tell is to try them yourself.

- The present sound modes include modes using surround effects and modes using S.E.A. effects.
- Sound Mode effects cannot be recorded.

S.E.A. effect modes

D. CLUB (Dance Club)
ROCK
HALL
STADIUM

Increases resonance and bass.
Adds depth and brilliance to the sound, like in a concert hall.
Adds clarity and spreads the sound, like in an outdoor stadium.

KARAOKE mode

KARAOKE
KARAOKE
The vocal on tapes or CDs is masked for karaoke.

To get an effect, press the SOUND MODE button repeatedly until the Sound Mode you want appears in the display. The frame around the "S.MODE" indicator lights up. Each time you press the SOUND MODE button, the display changes as shown below:

→ D. CLUB → HALL → STADIUM → ROCK → POP → CLASSIC → FLAT →
(back to the beginning)

To cancel an effect, press the SOUND MODE button until "FLAT" appears on the display. The frame around the "S. MODE" indicator goes out.

To recall the previous Sound Mode, press the SOUND MODE button again.

Listening to Auxiliary Equipment

By playing the sound from auxiliary equipment through the System, you can gain control over how the music or program sounds. Once the connected equipment is playing through the System, you can apply the sound effects.

- First make sure that the optional equipment is properly connected to the System. (See page 5).

1. Set the VOLUME control to 0.

2. Press the AUX button.
When System is in Standby mode, the Unit is automatically turned on and "AUX" appears on the display.

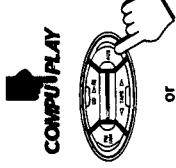


3. Start playing the equipment.

4. Adjust the VOLUME control to the desired listening level.

5. Select a sound effect mode, if you wish.

To Cancel the Setting
Change the source by starting any one of the System's built-in sound sources, such as the Tuner or CD Player.

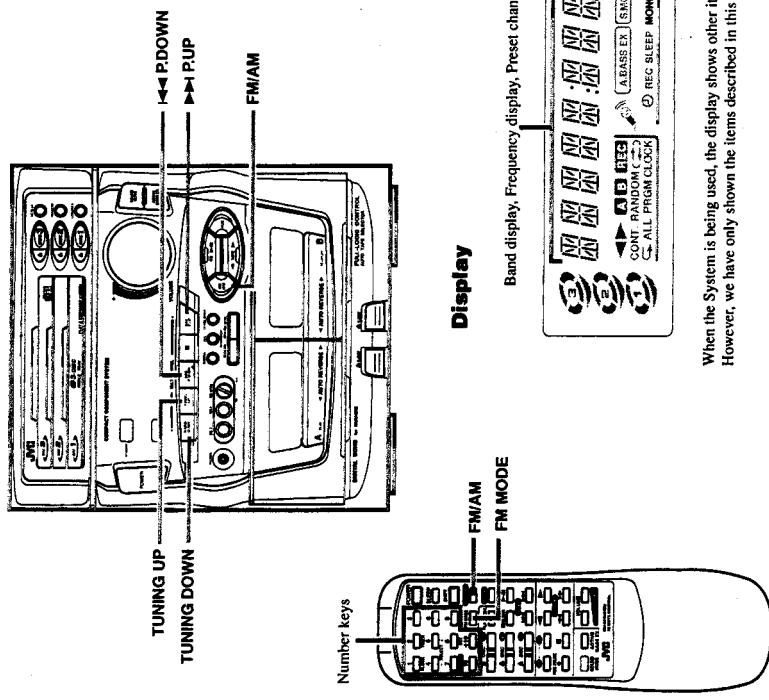


or



To Cancel the Setting
Change the source by starting any one of the System's built-in sound sources, such as the Tuner or CD Player.

Using the Tuner



Tuning In a Station

Press the FM/AM button to turn on the radio.

The Frequency of the previously selected channel appears on the display.

Switching between Frequency Bands

Press the FM/AM button.

Each time you press the button, the band alternates between FM and AM.



Three ways to select a station

Press the TUNING DOWN or TUNING UP button repeatedly to move from frequency to frequency until you find the one you want. (Manual Tuning).

OR

Press and hold the TUNING DOWN or TUNING UP button for a few seconds, the frequency starts changing on the display. When a station is tuned in, the frequency stops changing. (Auto Tuning).

OR

Possible only after presetting stations.

Press once and release the **◀ P. DOWN** or **▶ P. UP** button to go to the next preset station.

You can also use the Remote Control to tune in preset channels:

1. Press the FM/AM button so that you can receive the most recent station tuned in.
2. Select the station by entering the preset number in the number keys of the Remote Control.

- Example: for channel 5, press 5. For channel 15, press +10 then 5. For channel 20, press +10, then 10. For channel 30, press +10 twice then 10.



- After you have selected the preset number and the number is displayed, the broadcast frequency of the selected channel is displayed.

Presetting Stations

You can preset up to 30 FM stations and up to 15 AM stations for the preset numbers.

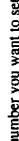
Note: In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

- Example: for channel 5, press 5. For channel 15, press +10 then 5. For channel 20, press +10, then 10. For channel 30, press +10 twice then 10.

1. Select a band by pressing either the FM/AM button.
2. Press the TUNING DOWN or TUNING UP button to tune into a station.

3. Setting the preset number by pressing the number keys on the Remote Control continuously.

For preset numbers 1 to 10:



Press the number key for the preset number you want to set.

For preset numbers 11 to 20:



Press the 1 to 10 buttons after pressing the +10 button.

For preset numbers 21 to 30:



Press the 1 to 10 buttons after pressing the +10 button twice.

The preset number appears in the display after you have pressed the number keys. If the key is pressed continuously, the preset number display blinks. Release the button after the number starts to blink. This completes the preset setting.

4. Repeat steps 1 - 3 for each station you want to store in memory with a preset number.

CAUTION: If the Unit is unplugged or if a power failure occurs, the preset stations will be erased after a few days. If this happens, preset the station again.

To Change the FM Reception Mode

When an FM stereo broadcast is hard to receive or noisy, press the FM MODE button on the Remote Control so that the "MONO" indicator lights up in the display. Reception improves, but there is no stereo effect.

To restore the stereo effect, press the FM MODE button on the Remote Control so that the "MONO" indicator goes off. In this stereo mode, the "ST" indicator lights up and you can hear stereo effects, when a program is broadcast in stereo.

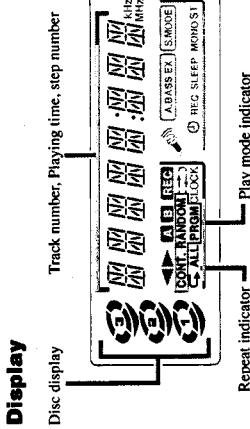
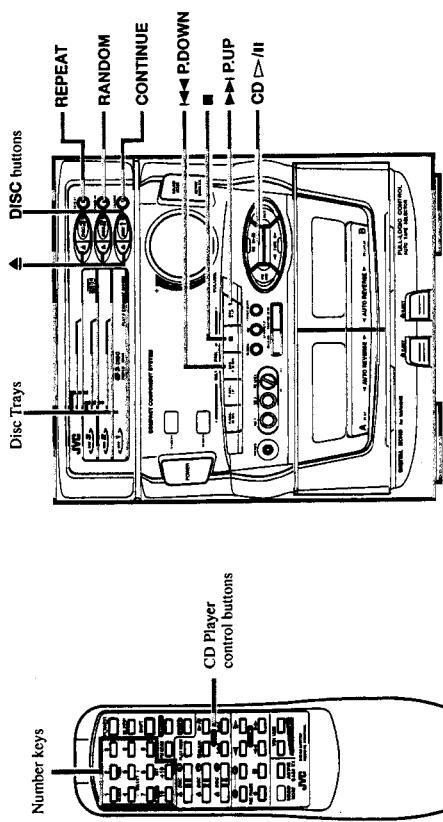


One Touch Radio

- Just press the FM/AM button to turn on the Unit and start playing the most recent station tuned in.
- You can switch from any other sound source to the radio by pressing the FM/AM button.



Using the CD Player



When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

The System's CD Player has an Automatic Changer with 3 disc trays. You can use Continuous, Random, Program or Repeat Play for the discs in DISC-1, DISC-2 and DISC-3. Repeat Play can repeat all the tracks on all the CD's, the tracks on one of the CD's or one track on one CD. There is also the Tray Lock function, which safely keeps discs in the trays.

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.

The Quickest Way To Start a CD Is With the One Touch Operation

CD

Press the CD ▷/III button (or the ▶/II button on the Remote Control).

For Normal Play (Play mode Indicator is not lit):

- If there is a CD in the disc tray for the selected disc number, the power is automatically turned on and the CD is played from the first track.

- If there is no CD in the disc tray for the selected disc number, the power is automatically turned on and "NO DISC" appears on the display. The CD Player is in stop mode.

For Continuous Play or Random Play In Display mode (CONT. or RANDOM Indicator is lit):

- If there is a CD in the disc tray for the selected disc number, the power is automatically turned on and the CD is played continuously from the first track or the tracks are played in random order.
- If there is no CD in the disc tray for the selected disc number, the power is automatically turned on and other tray containing a CD is selected and is played continuously from the first track or the tracks are played in random order.

- If there are no CDs in CD player, the power is automatically turned on and "NO DISC" appears on the display in Normal Play mode. The CD Player is in stop mode.

■ Press a DISC button (1 to 3).

- If there is a CD in the disc tray for the selected disc number, the power is automatically turned on and playback starts from the selected CD.

- If there are no CDs in CD Player, the power is automatically turned on and "NO DISC" appears on the display in Normal Play mode. The CD Player is set to stop mode.

■ Press the ▲ button.

- The power turns on, and the tray opens automatically.

To Insert Discs

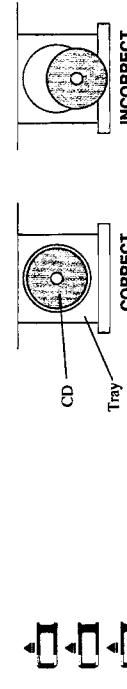
CD

1. **Press the ▲ button on the left of the Disc button you want to insert the disc into.**

The disc tray slides out automatically.

2. **Place a CD with its label side up, onto the tray.**

ATTENTION: To avoid malfunctions when you play a CD, please set the CD in the right place at the centre of the tray.



3. **Press the ▲ button to close the tray.**

4. **Repeat steps 1 to 3 to insert other discs into other trays.**

- To continue putting discs into other trays, even if a tray is open, by pressing the ▲ button of another disc tray, the open tray will close automatically, and the new disc tray will slide out.

- To put an 8 cm CD into a tray, insert it so that it is aligned with the groove in the tray's centre.

- If a tray is open when the System switches to Standby mode, the tray is closed automatically.

Basics of Using the CD Player — Normal Play

To Play a Disc

1. Prepare the discs.

2. Press the CD ▶/II or DISC button (1-3) of the disc you want to play.

When using the Remote Control, press the ▶/II button or the DISC (1 to 3) buttons.

The first track of the selected disc will begin playing.

The CD Player automatically stops when playback finishes the last track of the CD.

- If these buttons are pressed while the tray is open, the tray is automatically closed and playback starts.

Note: If the CD cannot be read correctly (due to scratches etc.), "00 0000" appears on the display.

To stop playing the disc, press the ■ button (or the CLEAR button on the Remote Control).

To stop playing and removing the disc, press the ▲ button for the disc being played.

To pause, press the ▶/II button (or the ▶/II button on the Remote Control). The Disc display will blink.

To cancel pause, press the ▶/II button again (or press the ▶/II button on the Remote Control). Playback continues from the point where it was paused.

To Select a Disc, Track Or Passage Within a Track

- Press the DISC button (1-3) for the disc tray containing the track you want to listen to.

Example: for the third disc, press 3.

- Press the ▲◀ P.DOWN or ▶▶ P.UP button to select the track.

The selected track starts playing.

Each time you briefly press and release the ▲◀ P.DOWN or ▶▶ P.UP button, the track changes by one.

- Press and release the ▶▶ P.UP button to go ahead one track at a time.

- Press and release the ▲◀ P.DOWN button to go back one track at a time.

Holding down the ▲◀ P.DOWN or ▶▶ P.UP button, during playback, will fast forward/backwards the CD so you can quickly find a particular passage in the selection you are listening to.

When using the Remote Control, press the ▲◀ or ▶▶ button.

Locating a Track With the Remote Control Directly

Using the number keys on the Remote Control allows you to go directly to the beginning of any track.

- Press the DISC button (1-3) for the disc tray containing the track you want to listen to.

Example: for the third disc, press 3.

- Enter the number of the track you want to listen to with the number keys.

The selected track starts playing.

- Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

To Change Discs While Playing

You can replace a CD in a tray not being used, while another CD is playing.

- Press the ▲ button of the tray not being used.

The tray opens.

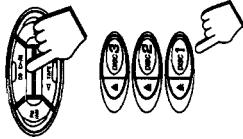
- Replace the disc in the tray.

- Press the ▲ button to close the tray.

Continuous Play

This function plays the disc in the Unit continuously.

- Prepare the discs.
- Select Continuous mode.



On the Unit
Press the CONTINUE button.
The playback automatically starts from the selected CD.

- "CONT" on the Play mode indicator lights up.

You can press the CONTINUE button while a CD is playing to switch to Continuous mode.

On the Remote Control

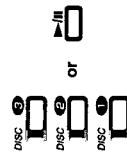
- Press the PLAY MODE button while the CD Player is stopped, to select "CONTINUE".

- "CONT" lights in the Play mode indicator.
The display changes with each press of the PLAY MODE button as shown below.

→ PROGRAM → RANDOM → CONTINUE → No display → (back to the beginning)

- Press the DISC button (1 to 3) or ▶/II button.

Playback starts from the selected CD.
Playing order of the CDs



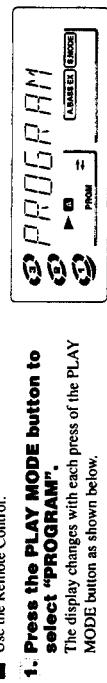
The selected CDs are played continuously in the following order.

→ DISC 1 → DISC 2 → DISC 3 → (back to the beginning)

Programming the Playing Order of the Tracks

You can change the order in which the discs and tracks play, and select only the discs and tracks you want from among those loaded in the CD Player.

- You can program up to 20 steps in any desired order from among the discs in the player.
- You can only make a program when the CD Player is stopped.
- Use the Remote Control.



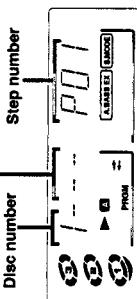
1. Press the PLAY MODE button to select "PROGRAM".
The display changes with each press of the PLAY MODE button as shown below.

→ PROGRAM → RANDOM → CONTINUE → No display → (back to the beginning)

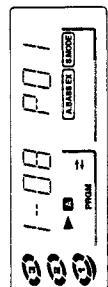
- The "PRGM" play mode indicator light up.
- If a program is already in progress, the last step of the program is displayed.



2. Select a disc with the DISC buttons (1-3).
The display changes to the Program Entry display.



Track number
Disc number
Step number



3. Press the number keys [1 to 10] and +10) to select the track to program.

- Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10 then 10.

4. Repeat steps 1 to 3 to select the other tracks for the program.

5. Press the ▶/II button.

The Unit plays the tracks in the order you have programmed them.

- If you try to program a disc tray that is empty, or a track number that does not exist on a disc (for example, selecting track 14 on a disc that only has 12 tracks), the selected disc or track are skipped when the program is played.

- You can skip to a particular program step by pressing the ▶ or ▶ button during program play.

- To play the programmed tracks over and over, press the REPEAT button. The Repeat mode indicators light up in sequence with each press of the REPEAT button.

To stop playing, press the ■ button (or the CLEAR button on the Remote Control) once.

To delete all the tracks in a program, press the ■ button on the Unit or the ■CLEAR button on the Remote Control while the CD Player is stopped. The program is deleted and the "PRGM" play mode indicator goes out and Normal Play is resumed.

To cancel program play, press the PLAY MODE button on the Remote Control while the CD Player is stopped to select a different Play mode. The "PRGM" indicator goes out and the next Play mode is selected.

Note: If you press the CONTINUE or RANDOM button on the unit while a program is playing, the play mode changes to that mode.

Random Play

On the Unit

Press the RANDOM button.

- The playback automatically starts from the selected CD.
- "RANDOM" on the Play mode indicator lights up.

You can press the RANDOM button while a CD is playing to switch to Random play mode.

On the Remote Control

- Press the PLAY MODE button while the CD Player is stopped, to select "RANDOM".

- "RANDOM" lights in the Play mode indicator.

The display changes with each press of the PLAY MODE button as shown below.

→ PROGRAM → RANDOM → CONTINUE → No display → (back to the beginning)

2. Press the ▶/II button.

Playback starts from the selected CD.

Note: Random Play cannot be activated with the DISC button (1 to 3).

To skip to the next track, press the ▶ button during playback. The next track is jumped to with each press of the button. Press the ▶ button to jump to the start of the track being played.

- Press the REPEAT button before or during random play to instruct the System to continue with a different random track selection after the last selection is played.

To cancel random play, press the RANDOM button again. The "RANDOM" play mode indicator goes out and Normal Play is resumed. When using the Remote Control, press the PLAY MODE button while the CD Player is stopped to select a different Play mode. The "RANDOM" indicator goes out and the next Play mode is selected.

Repeating a Selection or the Discs

You can have all the discs, the program or the individual selection currently playing repeat as many times as you like.

Press the REPEAT button.

The display changes with each press of the button, as shown below.

- Repeats one track on a CD.
- For Normal Play, repeats all the tracks on the current CD.
- For Continuous Play or Random Play, repeats all the tracks on all the CDs in the CD Player.
- For Program Play, repeats all the tracks in the program.

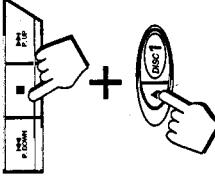
To exit Repeat Mode, press the REPEAT button until the Repeat mode indicator on the display goes out.

Tray Lock Function

In order to safely keep the discs in the CD Player, the three trays can be electronically locked in a single operation. When the electronic lock is on, the trays cannot be opened even if the ▲ button is pressed. This function can only be accessed by using the buttons on the Unit itself.

Locking the Electronic Lock

- Put the System's power into STANDBY mode.
- While pressing the ■ button, press the ▲ button for DISC 1's tray on the Unit.

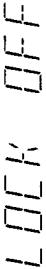


When the CD Player trays are locked, pressing the ▲ buttons displays the message "LOCK ON" on the display and the trays do not open. Also, the ▲ button cannot be used to automatically turn on the power.

Unlocking the Electronic Lock

- Put the System's power into STANDBY mode.
- While pressing the ■ button, press the ▲ button for DISC 1's tray on the Unit.

When the unlock operation is done, "LOCK OFF" appears in the display to show that the lock has been taken off.



The trays can now be opened by pressing the ▲ buttons. The ▲ button can also be used to automatically turn on the power.



3. Press the number keys [1 to 10] and +10) to select the track to program.

- Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10 then 10.

4. Repeat steps 1 to 3 to select the other tracks for the program.

5. Press the ▶/II button.

The Unit plays the tracks in no special order when you use this mode.

- If you try to program a disc tray that is empty, or a track number that does not exist on a disc (for example, selecting track 14 on a disc that only has 12 tracks), the selected disc or track are skipped when the program is played.

- You can skip to a particular program step by pressing the ▶ or ▶ button during program play.

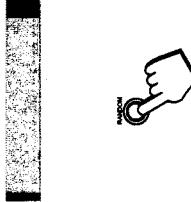
- To play the programmed tracks over and over, press the REPEAT button. The Repeat mode indicators light up in sequence with each press of the REPEAT button.

To stop playing, press the ■ button (or the CLEAR button on the Remote Control) once.

To delete all the tracks in a program, press the ■ button on the Unit or the ■CLEAR button on the Remote Control while the CD Player is stopped. The program is deleted and the "PRGM" play mode indicator goes out and Normal Play is resumed.

To cancel program play, press the PLAY MODE button on the Remote Control while the CD Player is stopped to select a different Play mode. The "PRGM" indicator goes out and the next Play mode is selected.

Note: If you press the CONTINUE or RANDOM button on the unit while a program is playing, the play mode changes to that mode.



- PROGRAM → RANDOM → CONTINUE → No display → (back to the beginning)
- Press the ▶/II button.

Playback starts from the selected CD.

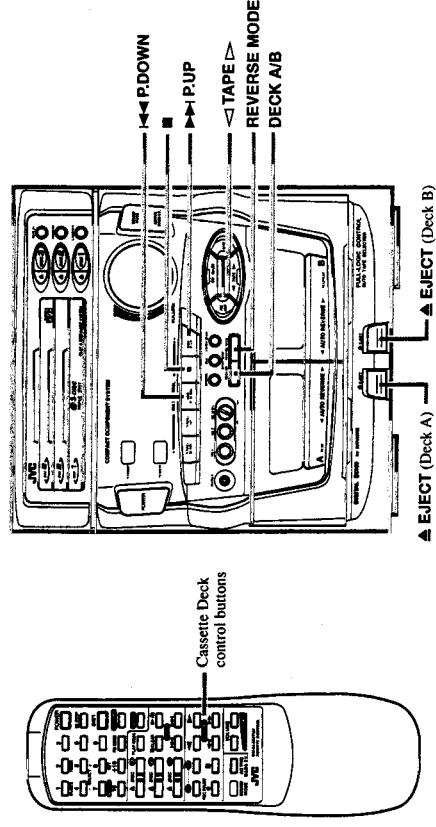
Note: Random Play cannot be activated with the DISC button (1 to 3).

To skip to the next track, press the ▶ button during playback. The next track is jumped to with each press of the button. Press the ▶ button to jump to the start of the track being played.

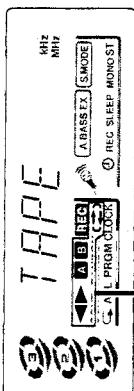


To cancel random play, press the RANDOM button again. The "RANDOM" play mode indicator goes out and Normal Play is resumed. When using the Remote Control, press the PLAY MODE button while the CD Player is stopped to select a different Play mode. The "RANDOM" indicator goes out and the next Play mode is selected.

Using the Cassette Deck (Listening to a Tape)



Display



Display

Tape Direction Indicator on the Display

The Tape Direction Indicator tells you which direction the selected tape deck will use for playback. During playback, the direction indicator blinks slowly. During fast left or fast right, the indicator blinks quickly. During Music Scan mode, the direction indicator alternates between blinking slowly and quickly repeatedly.

When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

The Cassette Deck allows you to play, record and dub audio tapes.

- With Automatic Tape Detection, you can listen to type I or II tapes without changing any settings.
- The use of tapes longer than 120 minutes is not recommended, since characteristic deterioration may occur and these tapes easily jam in the pinch-rollers and the capstans.

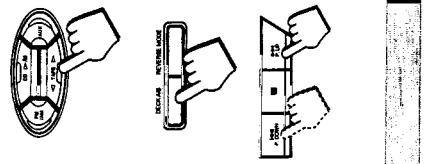
One Touch Play

By pressing the ▶▷ TAPE button (or the ▶ or ▷ button on the Remote Control), the Unit will come on, "TAPE" appears in the display, and if a tape is in the deck, it will start to play. If no tape is loaded, the Unit will come on and wait for you to insert a tape, or select another function.



When the power is already on, you can use this basic procedure:

- 1. Press the ▶▷ EJECT button for the deck you want to use.**
 - 2. When the cassette holder opens, put the cassette in, with the exposed part of the tape down, toward the base of the system.**
- If the cassette holder does not open, turn the Unit off, then back on and press the ▶▷ EJECT button again.



3. Close the holder gently.

When both Deck A and Deck B contain a tape, the last deck to have a tape inserted is selected. To change the selected deck, press the DECK A/B button. When using the Remote Control, press the A or B button.

4. Press the ▶▷ TAPE ▶ button (or ▶ or ▷ button on the Remote Control).

The tape is played in the direction of the button pressed for the selected deck.

- The Cassette Deck automatically stops when one side of a tape has finished playing.

To stop playing, press the ■ button.
To remove the tape, stop the tape, and press the ▲ EJECT button.

To change deck while playing a tape, press the ▶▷ TAPE ▶ button after pressing the DECK A/B button on the Unit or press the ▶ or ▷ button after pressing the A or B button on the Remote Control.

Fast Left And Fast Right

- While the tape is stopped, press the ▶▷ P.DOWN button (or ▶ or ▷ button on the Remote Control) and the tape will wind rapidly onto the left side of the cassette without playing.
- While the tape is stopped, press the ▶▷ P.UP button (or ▶ or ▷ button on the Remote Control) and the tape will wind rapidly onto the right side of the cassette without playing.

Note: Deck A and Deck B cannot be used for playback at the same time.

Music Scan

To find the beginning of a music track during play, use the Music Scan function. Music Scan searches for blank portions that usually separate selections, then plays the next selection.

To Find the Beginning of the Current Selection Press the ▶▷ P.DOWN or ▶▷ P.UP button (or the ▶ or ▷ button on the Remote Control) during play.

- Make sure that you press the ▶▷ P.DOWN or ▶▷ P.UP button (or the ▶ or ▷ button on the Remote Control) in the opposite direction to that in which the tape is playing. Searching stops at the beginning of the current selection, and the current selection starts automatically.

To Find the Beginning of the Next Selection Press the ▶▷ P.DOWN or ▶▷ P.UP button (or the ▶ or ▷ button on the Remote Control) during play.

- Make sure that you press the ▶▷ P.DOWN or ▶▷ P.UP button (or the ▶ or ▷ button on the Remote Control) in the same direction as that in which the tape is playing. Searching stops at the beginning of the next selection, and the next selection starts automatically.

Music Scan works by detecting a 4-second long blank at the beginning of each selection, so it won't work well if your tape has:

- No blank at the beginning of a selection.
- Noise (often caused by much use or poor quality dubbing) which fills the blank with noise.
- Long, very soft passages or pauses in a selection. The scan will detect these as 4-second long blanks. If this happens, just scan again until you reach the selection you want.

Reverse Mode

You can play both sides of a cassette, or play both the tapes in the two Cassette Decks continuously. Press the REVERSE MODE button to switch to Reverse Mode.

The indicator changes with each press of the button as shown.



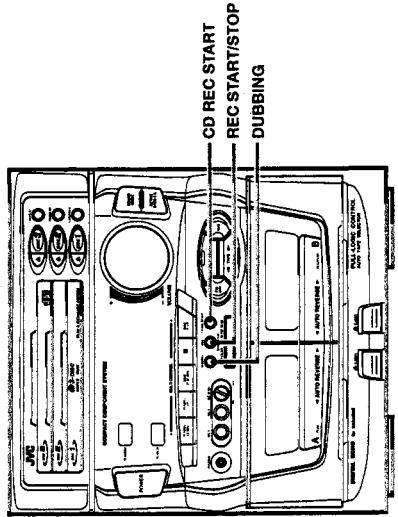
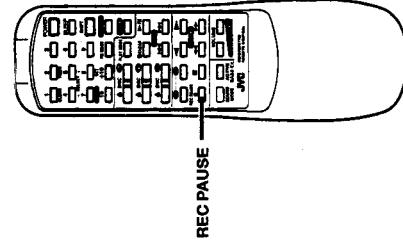
→ ▶ ▷ → ▶ ▷ : The Cassette Deck automatically stops after playing one side of the tape.

→ ▶ ▷ : The Cassette Deck automatically stops after playing both sides of the tape being played (or set to play).
→ ▶ ▷ : After playing both sides of the tape being played (or set to play), the Unit always checks to see if a tape is in the other deck. If there is, it automatically starts playing that tape. This Continuous Play function works regardless of which deck starts first. The tapes are played continuously until the ■ button is pressed.

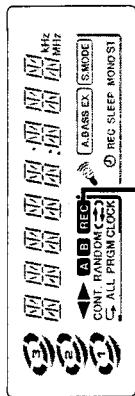
Using the Cassette Deck (Recording)

Note: At the start and end of cassette tapes, there is leader tape which cannot be recorded onto. Depending on the recording source, the first part of the recording may be missing because of the leader. When recording CDs or radio broadcasts, to get the beginning of the recording on the tape, first wind on the leader before beginning recording.

CAUTION: If recordings you have made have excessive noise or static, the Unit may be too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the system.



Display



When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

- It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.
- When you want to record onto both sides of a tape, you can set Reverse mode on to do so. However, recording automatically stops after recording in the \blacktriangle direction in Reverse mode. Therefore, make sure that the tape direction is \blacktriangleright when recording with Reverse mode on.
- The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the System. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- Two small tabs on the back of the cassette tape, one for side A and one for side B, can be removed to prevent accidental erasure or re-recording. To record on a cassette with the tabs removed, you must cover the holes with adhesive tape first.
- However, when a type II tape is used, only cover part of the hole as shown, since the other part of the hole is used to detect the tape type.
- When recording, you can hear Sound Mode effects through the speakers or headphones. However, the sound is recorded without Sound Mode effects.
- Type I and Type II tapes can be used for recording.

Things To Know Before You Start Recording

- Press the **REVERSE MODE** button on the Unit if you want to record on both sides of the tape.
- Press the button until the ' \blackleftarrow ' or ' \blacktriangleright ' indicator is lit.
- When using Reverse Mode, insert the tape so that it will be recorded in the forwards \blacktriangleright direction.
- Prepare the source, by, for example, tuning in a radio station, loading CDs, or turning on connected equipment.
- Press the **REC PAUSE** button.
- The "REC" indicator light comes on and the System begins recording.
- Insert a blank or erasable tape into Deck B.
- Press the **REC START/STOP** button.
- The "REC" indicator blinks.
- Press the **REVERSE MODE** button on the Unit if you want to record on both sides of the tape.
- Press the button until the ' \blackleftarrow ' or ' \blacktriangleright ' indicator is lit.
- When using Reverse Mode, insert the tape so that it will be recorded in the forwards \blacktriangleright direction.
- Prepare the source by, for example, tuning in a radio station, loading CDs, or turning on connected equipment.
- Press the \blacktriangleright or \blackleftarrow button.
- Recording starts in the direction of the button pressed.
- When recording in Reverse Mode, the System automatically stops when it reaches the end of the reverse \blackleftarrow direction. To record on both sides of a tape, make sure that the recording direction for the tape inserted into Deck B is forwards \blacktriangleright , and that the Tape Direction indicator is also forwards \blacktriangleright , before you start recording.



Notes for using Reverse Mode for recording

- When recording in Reverse Mode, the System automatically stops when it reaches the end of the reverse \blackleftarrow direction. To record on both sides of a tape, make sure that the recording direction for the tape inserted into Deck B is forwards \blacktriangleright , and that the Tape Direction indicator is also forwards \blacktriangleright , before you start recording.

Using the Timer

To Pause at Any Time During the Recording Process

Press the REC PAUSE button on the Remote Control. Then press either the \blacktriangle or \blacktriangleright button on the Remote Control or REC START/STOP button on the Unit to restart recording.

To Stop at Any Time During the Recording Process

Press the REC START/STOP button on the Unit again, or press the \blacksquare button.

Recording AM station to tape

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. In this case, press the CONTINUE button on the CD Player to eliminate the beats.

- Set to AM station and start recording.
- Press the CONTINUE button to eliminate the beats.

Each time you press the button, the display changes as shown below:

CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have set in a program.

1. Prepare CDs. (See page 13.)

Check that the CD Player is not playing a CD.

2. Insert a cassette in Deck B to record on.

- When you want to record on both sides of a tape, press the REVERSE MODE to turn Reverse Mode on. Check that the recording direction for the tape and the Tape Direction indicator is correct. (See page 21 "Notes for using Reverse Mode for recording".)

3. Press the CD REC START button.

The "REC" indicator light comes on and the System begins recording.

If you make a recording with Reverse Mode on, the Unit will record the last song at the end of the first side at the beginning of the next side.

To stop at any time during the recording process, press the \blacksquare button.

Note: When making SLEEP timer settings while doing CD Direct recording, set the time so that there is enough leeway to finish the recording before the power goes off. If the time is set to about the length of the CD, the power may go off before recording finishes.

For CD Direct Recording using more than one disc, use a blank tape. If you use a prerecorded tape, prerecorded material may not be erased between newly-recorded tracks.

Tape to Tape Recording (Dubbing)

Recording from one tape to another is called dubbing. You can dub tapes simply, with just a single button.

- When dubbing tapes, make sure that the playback direction of Deck A and Deck B are the same.
- When you want to record both sides of a tape, press the REVERSE MODE button to turn Reverse mode on.
- It is preferable that the type of tape (Type I or Type II) you record from be the same as the type you record onto.

How to Use the DUBBING Button

- Insert the source cassette you want to copy from into Deck A for playback.

Insert the cassette so that it will be played in the forwards \blacktriangleright direction.

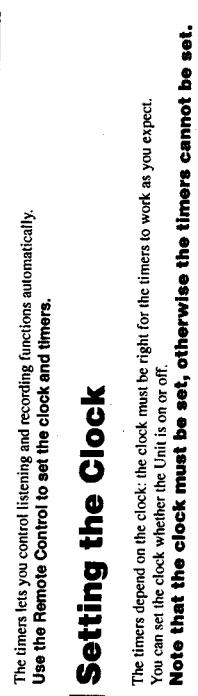
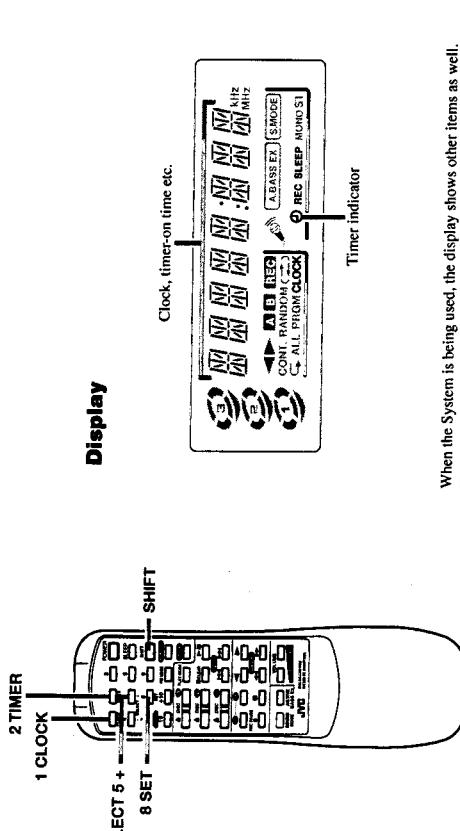
- Insert the blank or erasable cassette you want to copy onto into Deck B for recording.

Insert the cassette so that it will be recorded in the forwards \blacktriangleright direction.

3. Press the DUBBING button.

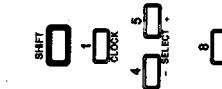
Deck A and Deck B will start simultaneously.

- To stop dubbing, press the \blacksquare button or REC START/STOP button.
- When doing dubbing with the DUBBING button, you can hear Sound Mode effects through the speakers or headphones. However, the sound is dubbed without Sound Mode effects.



Setting the Clock

The timers lets you control listening and recording functions automatically. Use the Remote Control to set the clock and timers. However, we have only shown the items described in this section.



1. Press the SHIFT button.
 2. Press the 1 CLOCK button.
 3. Press the SELECT 5 + or 4 - button to set the time.
 4. Press the 8 SET button.
- The blinking time display changes from a blinking display to a steady display and the clock timer starts from 0 seconds.

CAUTION: If there is a power failure, the clock loses its setting. The display shows "0:00", and the clock must be reset.



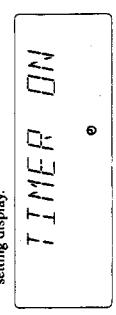
Setting the Timer

■ You can set the Timer whether the Unit is on or off.

Procedure For Setting the Timer

1. Press the SHIFT button.

The Timer indicator on the display lights up and the blinking "TIMER ON" changes to the On Time setting display.



2. Press the 2 TIMER button.

"TIMER ON" blinks on the display, and the display changes to the Off Time setting display.



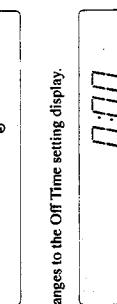
3. Set the time you want the Unit to come on.

Press the SELECT 5 + or 4 - button to set the On Time.



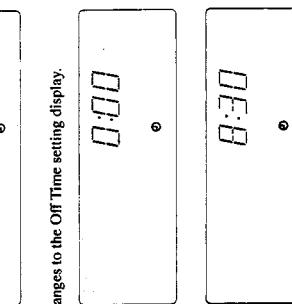
4. Press the 8 SET button.

"TIMER OFF" blinks on the display, and the display changes to the Off Time setting display.



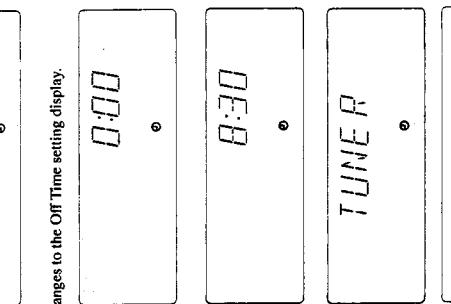
5. Set the time you want the Unit to be turned off.

Press the SELECT 5 + or 4 - button to set the Off Time.



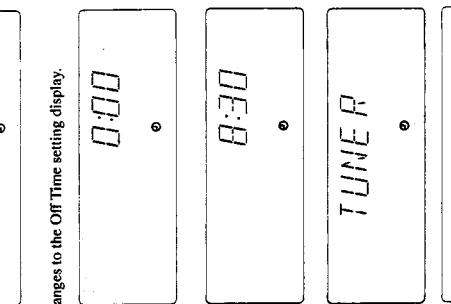
6. Press the 8 SET button.

The name of the source blinks in the display. The display changes with each press of the button as shown.



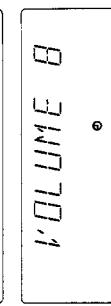
7. Press the SELECT 5 + or 4 - button to select the source.

Selects the last station you were listening to. TUNER: Selects the last station you were listening to. TUNER REC: Records the last station you were listening to. CD: Plays the last CD you were listening to. TAPE: Plays the last tape you were listening to.



8. Press the 8 SET button.

The volume level blinks on the display.



9. Press the SELECT 5 + or 4 - button to set the volume level.

The display returns to the display before you set the timer.



10. Press the 8 SET button.

The display returns to the display before you set the timer.

Before Turning the Unit Off

■ Check that the selected source is ready.

■ If you will be recording a source while you are out, set the volume to 0.

To turn the Timer off, press the 2 TIMER button while pressing the SHIFT button. The Timer indicator on the display goes out.

Setting the SLEEP Timer

Use the Sleep Timer to turn the Unit off after a certain number of minutes when it is playing. By setting this timer, you can fall asleep to music and know your Unit will turn off by itself rather than play all night.

■ You can only set the Sleep Timer when the Unit is on and a source is playing.

To set the SLEEP Timer, follow this procedure:

1. With the System on and a source playing, press the SLEEP button on the Remote Control.



2. Set the length of time you want the source to play before shutting off.

Each time you press this button, it changes the number of minutes shown on the display, in this sequence:
→ 10 → 20 → 30 → 60 → 90 → 120 → Cancelled → (back to the beginning)

When the number of minutes you want shows on the display, just wait 5 seconds until the number of minutes stops blinking, and is lit steadily. The Unit is now set to turn off after the number of minutes you set.

To Change the SLEEP Timer Setting
Press the SLEEP button until the number of minutes you want appears on the display.
To Cancel the SLEEP Timer Setting
Press the SLEEP button until the "SLEEP" indicator goes off on the display.

TUNER: Selects the last station you were listening to.

TUNER REC: Records the last station you were listening to.

CD: Plays the last CD you were listening to.

TAPE: Plays the last tape you were listening to.

- In the source "TUNER", "CD", or "TAPE", the timer acts as a Daily timer. Once the Daily timer has been set, it will be activated at the same time every day until the setting is turned off.
- In the source "TUNER REC", the timer acts as a Once timer. After the Once timer has been performed, the details of the setting remain stored but the Timer status is set to off.

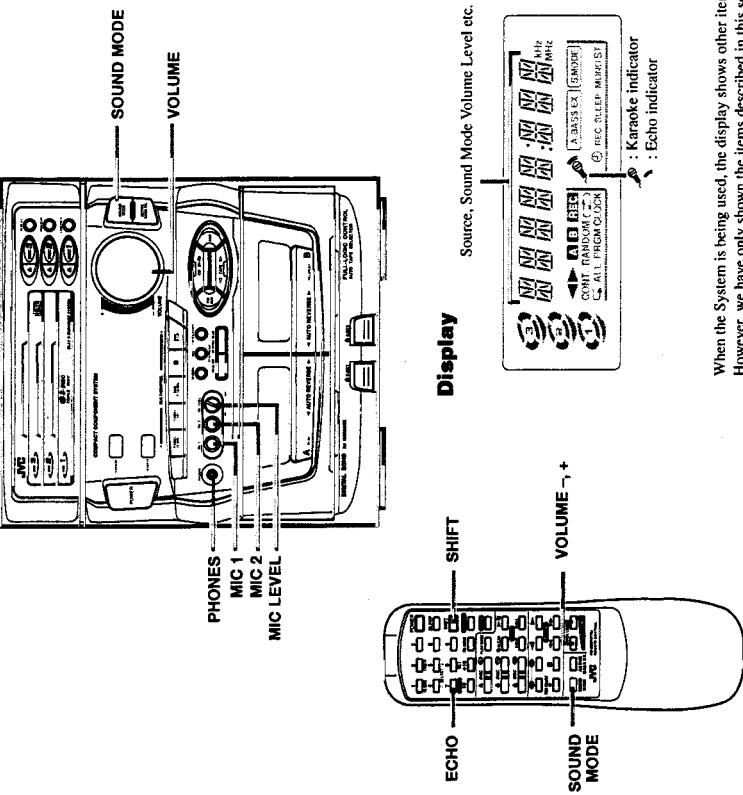
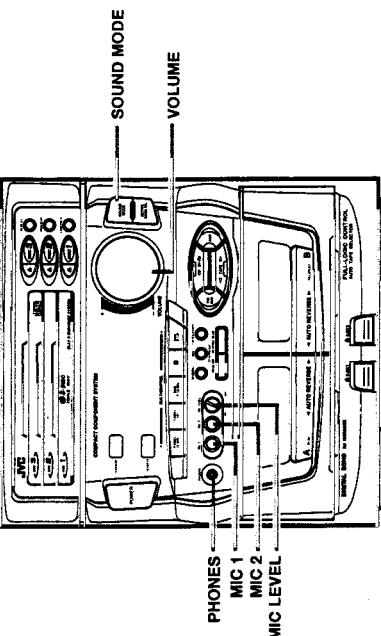
Using the Microphone



3. Press the SOUND MODE button repeatedly until "KARAOKE" appears in the display.

The "K" indicator comes on.

4. Start the source CD, tape or other equipment.



The System includes two microphone terminals, MIC 1 and MIC 2. By attaching a microphone to one or both of these terminals, you can use the System for Karaoke or microphone mixing. You can also add an echo to the microphone's sound.

■ The MIC 1 LEVEL control adjusts the volume for both MIC 1 and MIC 2 at the same time.

■ When you will not be using the microphone, keep the MIC LEVEL control set to MIN, and disconnect the microphone.

CAUTION: Always set the MIC LEVEL control to MIN when connecting or disconnecting the microphone.

Karaoke (Sing Along)

The Vocal Masking function lets you use regular tapes, CDs, or records as sources for Karaoke. When you select Karaoke mode, the lead vocal volume of the source is reduced, and you can replace it by singing into the microphones as the music plays.

Singing Along with Karaoke

1. Turn the MIC LEVEL control to MIN.
2. Connect the microphone (not supplied) by plugging it into the MIC jack on the front panel.

5. Adjust the VOLUME control and the MIC LEVEL control, as you sing into the microphone.

Important Information on Karaoke

- Because a radio signal is not as reliable as signals coming from a tape or CD, you may not always get satisfactory results using the radio as a source for Karaoke.
- Some tapes and CDs are better sources for Karaoke than others.
 - Mono sources are not suitable for Karaoke.
 - The lead vocals may not be completely reduced for sources with duets, strong echo, a chorus, or only a few instruments.
 - Poorly dubbed tapes may not be suitable for Karaoke.

Digital Echo

You can get an echo effect to apply to your voice.

1. Press the SHIFT button on the Remote Control.
2. Press the 7 ECHO button on the Remote Control.

The Echo indicator comes on.

No echo is applied.

An echo is applied.

To prevent howling and squealing (feedback) when using the microphone, adjust the MIC LEVEL control and the VOLUME control. Also, try to avoid pointing the microphone towards the speakers.

- When two microphones are connected, turn the microphone ON/OFF switch for the microphone that is not being used to OFF.
- When recording sound from the microphone, the digital echo effect is also recorded.

To Record Your Singing

1. Follow the steps in "Singing Along with Karaoke" above.
2. Follow the steps in "Standard Recording" (See page 21) to record your singing.

When the System is being used, the display shows other items as well. However, we have only shown the items described in this section.

The System includes two microphone terminals, MIC 1 and MIC 2. By attaching a microphone to one or both of these terminals, you can use the System for Karaoke or microphone mixing. You can also add an echo to the microphone's sound.

■ The MIC 1 LEVEL control adjusts the volume for both MIC 1 and MIC 2 at the same time.

■ When you will not be using the microphone, keep the MIC LEVEL control set to MIN, and disconnect the microphone.

Microphone Mixing

When using special Karaoke sources for karaoke, use the following procedure.



1. Set the **MIC LEVEL** control to **MIN**.
2. Connect the microphone (not supplied) by plugging it into the **MIC Jack on the front panel**.

3. Start the source **CD, tape, or other equipment**.

4. Adjust the **VOLUME** control and the **MIC LEVEL** control, as you sing into the microphone.

To apply echo to the microphone sound, follow the steps in "Digital Echo". (See page 27.)

To Record Microphone Mixing

1. Follow the steps in "Microphone Mixing" above.
2. To record, follow the steps in "Standard Recording". (See page 21.)

Playing the Microphone Sound through the Speakers



1. Set the **MIC LEVEL** control to **MIN**.
2. Connect the microphone (not supplied) by plugging it into the **MIC Jack on the front panel**.

3. Adjust the **VOLUME** control and the **MIC LEVEL** control as you sing into the microphone.

To apply echo to the microphone sound, follow the steps in "Digital Echo". (See page 27.)

Recording from the Microphone

1. Follow the steps in "Playing the Microphone sound through the Speakers" above.
2. To record, follow the steps in "Standard Recording". (See page 21.)

Care And Maintenance

For best performance, keep your unit clean and dry. If the Unit becomes dirty, clean it with a soft cloth.

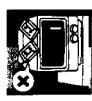
Compact Discs

Handle your compact discs, cassette tapes, and Cassette Deck carefully, and they will last a long time.

- Remove the CD from the case by holding it at the edges while pressing the centre hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.
- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.
- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from centre to edge.



- Do not store the tape:
- In dusty places
- In direct sunlight or heat
- In moist areas
- On a TV or speaker
- Near a magnet



- ### Cassette Tapes
- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
 - If the tape is loose, it may get stretched, cut, or caught in the cassette.
 - Do not touch the tape surface.

Cassette Deck

- If the heads, capstans, and pinch-rollers of the Cassette Deck become dirty, the following will occur:
- Loss of sound quality
- Discontinuous sound
- Fading
- Incomplete erasure
- Difficulty recording

Moisture Condensation

- Moisture may condense on the lens inside the Unit in the following cases:
- After starting the heating in the room.
 - In a damp room.
 - If the unit is brought directly from a cold to a warm place.
- Should this occur, the Unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.



1. Follow the steps in "Playing the Microphone sound through the Speakers" above.

2. To record, follow the steps in "Standard Recording". (See page 21.)

General Notes

- In general, you will have the best performance by keeping your tapes, CDs, and the mechanism clean.
- Store tapes and CDs in their cases, and keep them in cabinets or on shelves.
 - Keep the Cassette Deck's tape doors and the CD trays closed when not in use.
 - If the heads become magnetized, the Unit will produce noise or lose high frequencies.
 - To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).

Troubleshooting

- If you are having a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the Unit has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	Connections are incorrect, or loose. Cassette record protect tabs are removed.	Check all connections and make corrections. (See pages 4 - 5.) Cover holes on back edge of cassette with tape.
Unable to record.		
Poor radio reception	The antenna is disconnected. The AM Loop Antenna is too close to the Unit. The FM Wire Antenna is not properly extended and positioned.	Reconnect the antenna securely. Change the position and direction of the AM Loop Antenna. Extend FM Wire Antenna to the best reception position.
The CD skips.	The CD is dirty or scratched. The path between the Remote Control and the sensor on the Unit is blocked. The batteries have lost their charge.	Clean or replace the CD. Remove the obstruction. Replace the batteries.
Unable to operate the Remote Control.	The main AC power cord is not plugged in.	Plug in the AC power plug.
The CD tray cannot be opened.	The CD is upside down.	Put the CD in with the label side up.
The CD does not play.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the Unit then plug it back in.
Operations are disabled.		
The cassette door cannot be opened.	During tape playing, the power cord was unplugged.	Plug in the power cord, press the POWER button, and then press the ▲ EJECT button.

Specifications

Amplifier		CA-D501T/MX-D401T	Output Power (IEC 268-3/DIN)	27 watts per channel, min. RMS, both channels driven into 6 ohms at 1 kHz with no more than 0.9% total harmonic distortion.
MX-D301T		CA-D501T/MX-D401T	Output Power (IEC 268-3/DIN)	12 watts per channel, min. RMS, both channels driven into 4 ohms at 1 kHz with no more than 0.9% total harmonic distortion.
AUX			Input Sensitivity/Impedance (1 kHz)	300 mV/50 kohms
MIC 1				3 mV/2 kohms
MIC 2				3 mV/2 kohms
Speaker terminals		MX-D301T	Speaker terminals	6 - 16 ohms
Speaker terminals		CA-D501T/MX-D401T	Speaker terminals	Minimum 4 ohms
Cassette Deck		Frequency Response	50 - 14,000 Hz	
		Type II (CO ₂):	50 - 14,000 Hz	
		Type I (NORMAL):	0.15% (WRMS)	
		Wow And Flutter		
CD Automatic Changer		CD Capacity	3 discs	
		Dynamic Range	85 dB	
		Signal-To-Noise Ratio	90 dB	
		Wow And Flutter	Unmeasurable	
Tuner		FM Tuner	87.5 - 108.0 MHz	
		Tuning Range		
		AM Tuner		
		Tuning Range	531 - 1,602 kHz (at 9 kHz channel space)	
			530 - 1,710 kHz (at 10 kHz channel space)	
CA-D501T/MX-D401T		Dimensions (W/H/D)	265 × 295 × 39 mm (10-7/16 × 11-5/8 × 13-3/8 inches)	
		Mass	7.1 kg (15.7 lbs)	
MX-D301T		Dimensions (W/H/D)	265 × 295 × 39 mm (10-7/16 × 11-5/8 × 13-3/8 inches)	
		Mass	6.7 kg (14.8 lbs)	
Speaker Specifications				
SP-D401		Type	3-way, 3-speaker bass-reflex type	
		Speakers	Woofer Mid Range Tweeter	16 cm (6-5/16 inches) cone × 1 5 cm (2 inches) cone × 1 2 cm (13/16 inches) dome × 1
		Power Handling Capacity	80 watts	6 ohms
		Impedance	45 Hz - 20,000 Hz	90 dB/L·m
		Frequency Range	21.5 × 29.5 × 27.5 mm	Dimensions (W/H/D) (8-1/2 × 11-5/8 × 10-7/8 inches)
		Sound Pressure Level	3.2 kg (7.1 lbs) each	
		Dimensions (W/H/D)		
		Mass		

MX-D501T

SP-D311	3-way, 3-speaker bass-reflex type
Type	
Speakers	
Woofers	16 cm (6-5/16 inches) cone × 1
Mid Range	5 cm (2 inches) dome × 1
Tweeter	2 cm (13/16 inches) dome × 1
Power Handling Capacity	80 watts
Impedance	4 ohms
Frequency Range	45 Hz - 20,000 Hz
Sound Pressure Level	90 dB/w·m
Dimensions (W/H/D)	215 × 205 × 275 mm (8-1/2 × 11-5/8 × 10-7/8 inches)
Mass	3.2 kg (7.1 lbs) each

Accessories

AM Loop Antenna	(1)
Remote Control	(1)
Batteries R6P (SUM-3)/AA (15F)	(2)
FM Wire Antenna	(1)
AC Plug Adaptor (except for Hong Kong)	(1)

Power Specifications**CA-D501T/MX-D401T**

Power Requirements	AC 110V/220V/230 - 240 V ∼, 50/60 Hz adjustable with the voltage selector
Power Consumption	85 watts
	42 watts (in standby mode)
Max. Power Consumption	183 watts (Taiwan only)

MX-D301T

Power Requirements	AC 110V/220V/230 - 240 V ∼, 50/60 Hz adjustable with the voltage selector
Power Consumption	55 watts
	12 watts (in standby mode)
Max. Power Consumption	120 watts (Taiwan only)

Design and specifications are subject to change without notice.

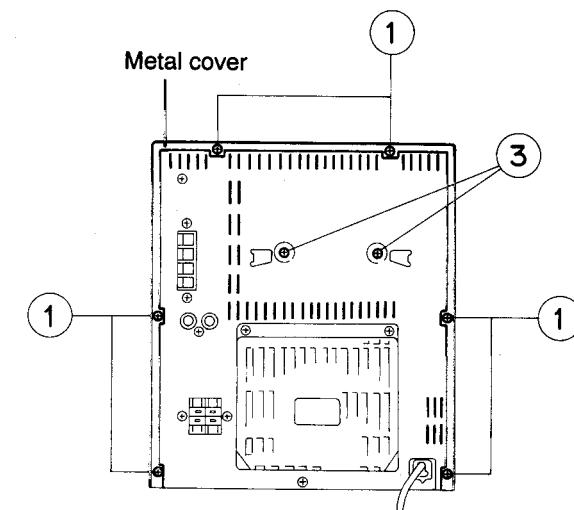
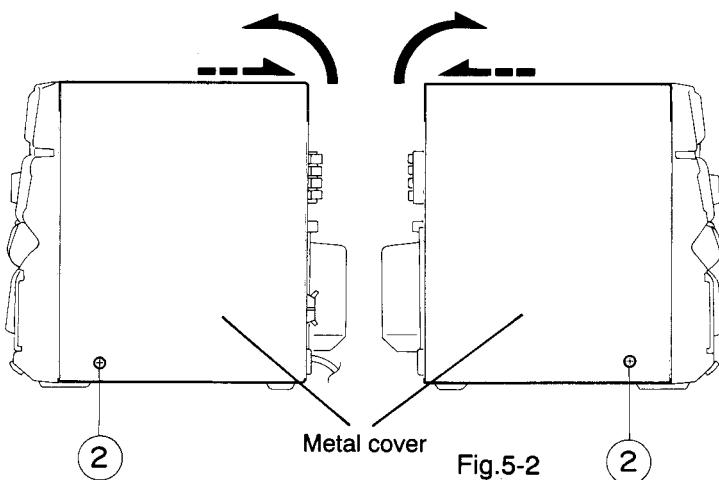
4.Location of Main Parts

Refer to MX-D401T (Issue No. 10039)

5. Removal of Main Parts

■ Removal of the Metal Cover (See Figs. 5-1,5-2)

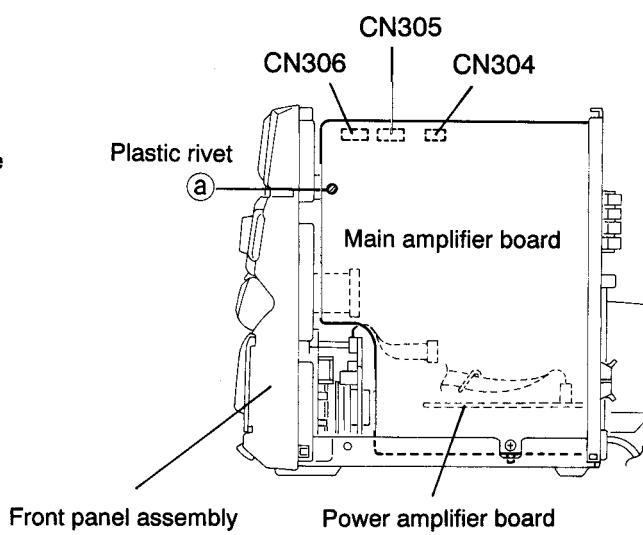
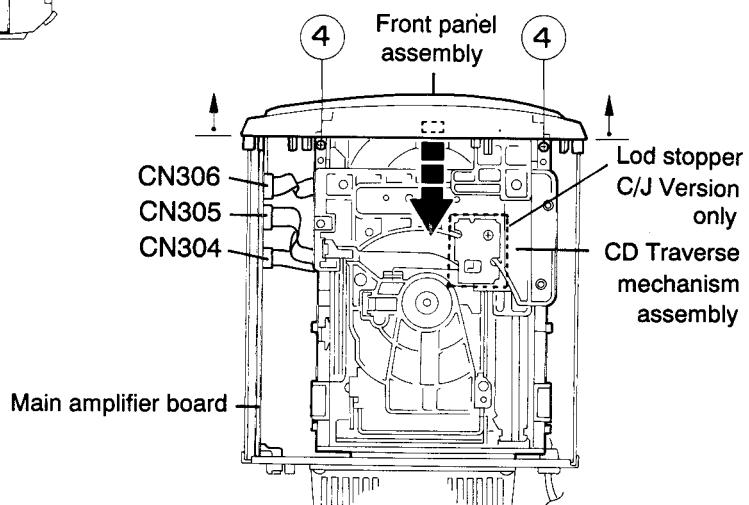
1. Remove the six screws ① fastening the metal cover to the rear panel of the main unit.(See Fig. 5-1)
2. Remove the two screws ② fastening the metal cover to the side panel of the main unit.(See Fig. 5-1)
3. Spread both sides of the metal cover outward and remove from the back panel by lifting upward.



■ Removal of the CD Traverse Mechanism Assembly

(See Figs. 5-1~5-4)

1. Remove the metal cover.
2. Remove the two screws ② fastening the CD traverse mechanism assembly to the rear panel of the main unit.
(See Fig. 5-1)
3. Remove the two screws ④ fastening the CD traverse mechanism assembly to the top panel of the main unit.
(See Fig. 5-3)
4. Disconnect the card wires connected to the CD traverse mechanism assembly from connectors CN304, CN305 and CN306 on the main amplifier board on the right side of the main unit.(See Fig. 5-3)
5. Remove the plastic rivet ⑤ fastening the main amplifier board and front panel assembly to the left side panel of the main unit.(See Fig. 5-4)
6. Tilt the front panel assembly slightly forward and remove the CD traverse mechanism assembly from the front panel assembly by shifting in the direction of the arrow and lifting upward.(See Fig. 5-3)



■ Removal of the Front Panel Assembly

(See Figs. 5-5~5-9)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the four screws ⑤ fastening the front panel assembly to the side of the main unit.(See Fig. 5-5)
4. Use a screwdriver, etc., to disengage clips ⑥ and ⑦ from the side panels of the main unit.(See Figs. 5-6, 5-7)
5. Disconnect the card wires connected to the front panel assembly from connectors CN302 and CN303 on the main amplifier board.(See Fig. 5-8)
6. Remove the wire clamp holding the parallel wires protruding from the front panel assembly and the parallel wires protruding from the power supply board.(See Figs. 5-8, 5-9)
7. Disconnect connector CN904 on the power amplifier board and then disconnect the parallel wires protruding from the front panel assembly.(See Figs. 5-8, 5-9)
8. Remove the front panel assembly.

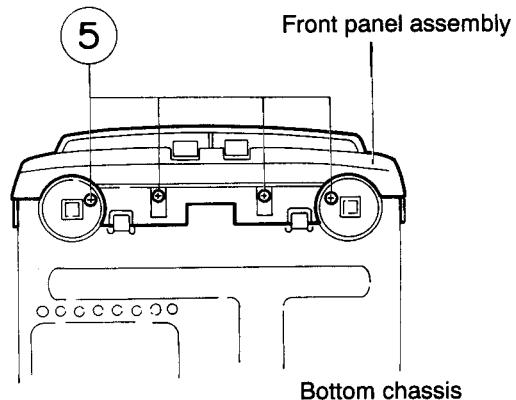


Fig.5-5

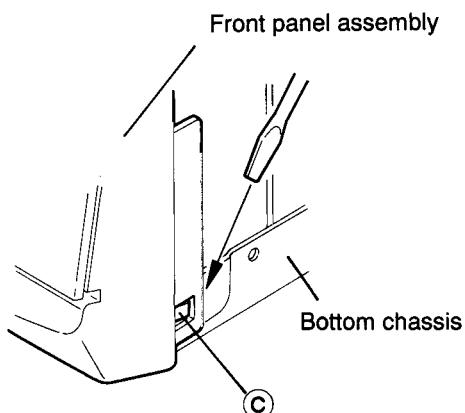


Fig.5-6

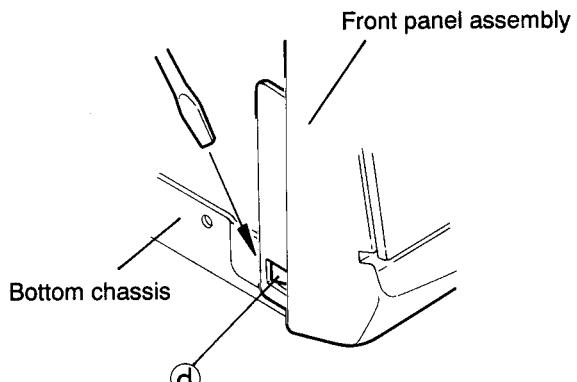


Fig.5-7

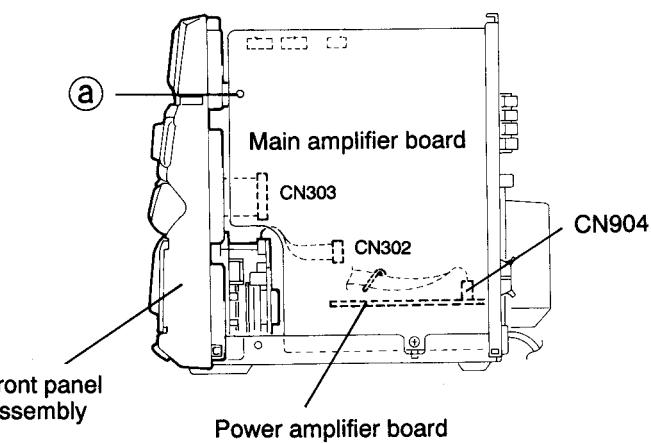


Fig.5-8

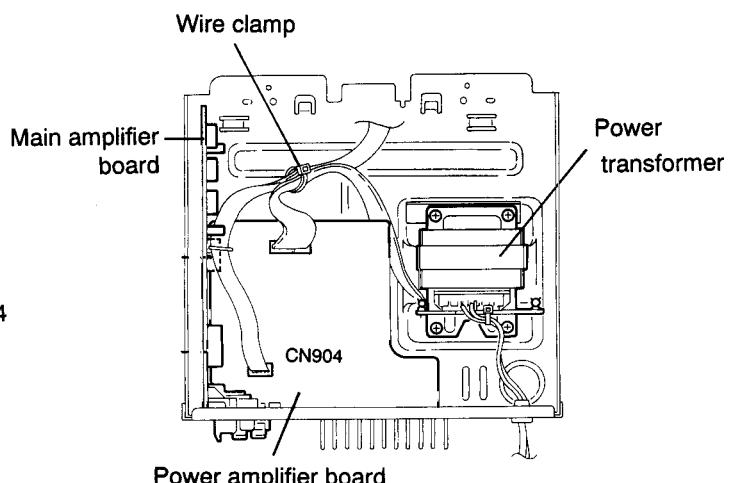


Fig.5-9

■ Removal of the Rear Panel Assembly

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the screw ⑥ fastening the main amplifier board and bottom chassis to the side panels of the main unit. (See Fig. 5-10)
5. Remove the screw ⑦ fastening the rear panel and bottom chassis to the rear panel of the main unit. (See Fig. 5-11)
6. Use a screwdriver, etc., to disengage the two engagements bottom chassis clips ⑧ and ⑨ from the bottom part of the side panels of the rear panel assembly. (See Figs. 5-12, 5-13)
7. Disconnect the parallel wires protruding from the power supply board from connector CN902 of the power amplifier board. (See Fig. 5-14)
8. Remove the rear panel assembly from the bottom chassis by disengaging the protrusion ⑩ of the main amplifier board from the cutout in the bottom chassis. (See Fig. 5-10)

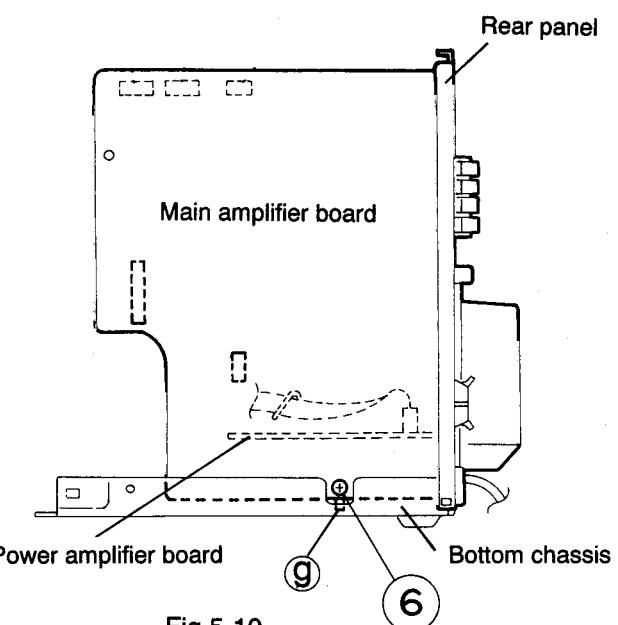


Fig.5-10

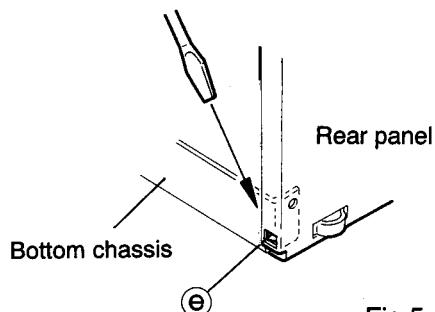


Fig.5-12

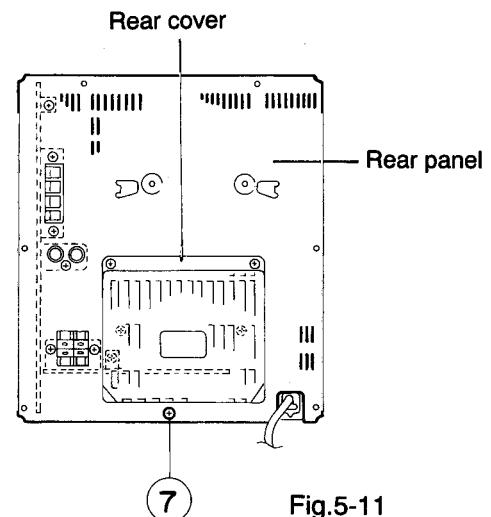


Fig.5-11

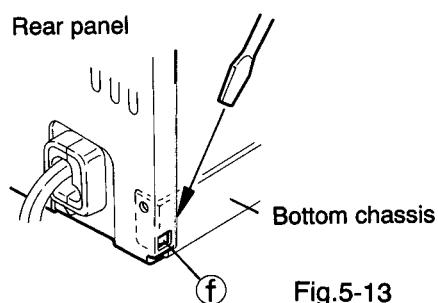


Fig.5-13

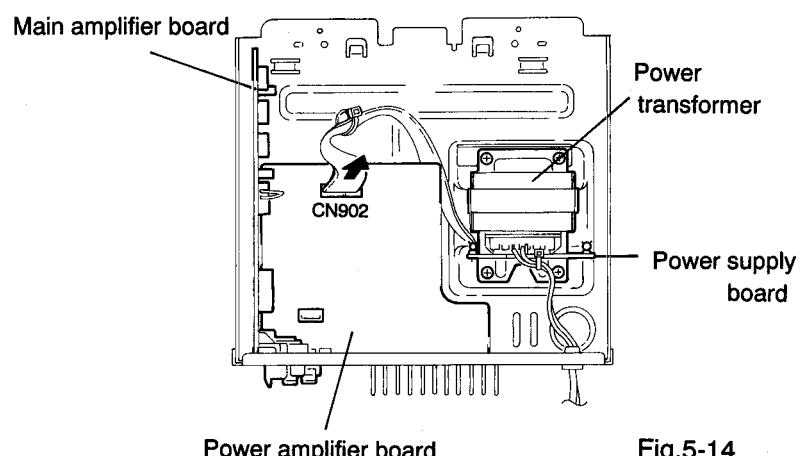


Fig.5-14

■ Removal of the Main Amplifier Board

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the rear panel assembly.
5. Remove the four screws ⑧ fastening the main amplifier board to the rear panel.(See Fig. 5-15)
6. Disconnect the main amplifier board connectors CN307 and CN308 from the power amplifier board.(See Fig. 5-16)

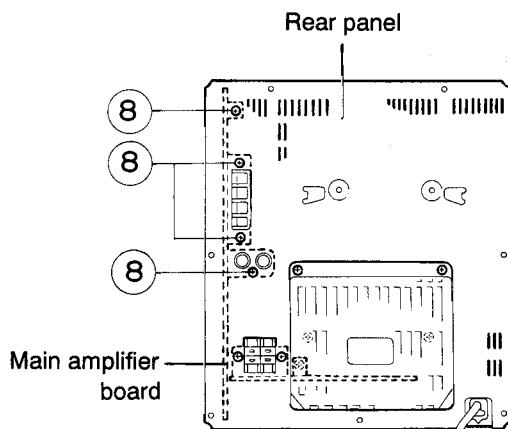


Fig.5-15

■ Removal of the Power Amplifier Board

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the rear panel assembly.
5. Remove the main amplifier board.
6. Remove the two screws ⑨ fastening the rear cover to the rear panel assembly and then remove the rear cover.
(See Fig. 5-17)
7. Remove the five screws (⑩ x 3, ⑪ x 2) fastening the power amplifier board to the rear panel assembly.(See Fig. 5-17)
8. Remove the two screws ⑬ fastening the voltage select board to the rear panel assembly.
(See Fig. 5-17a For U version only)

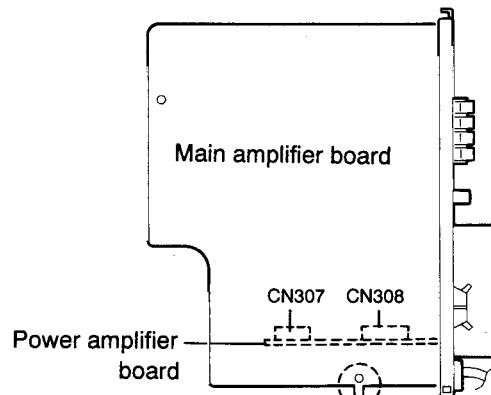


Fig.5-16

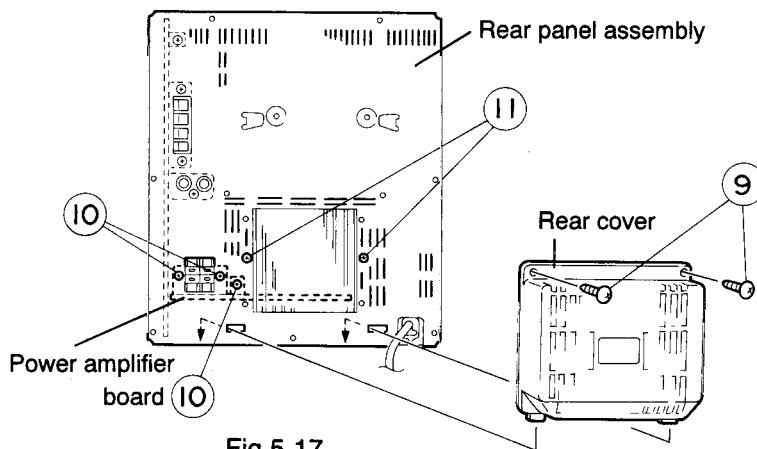


Fig.5-17

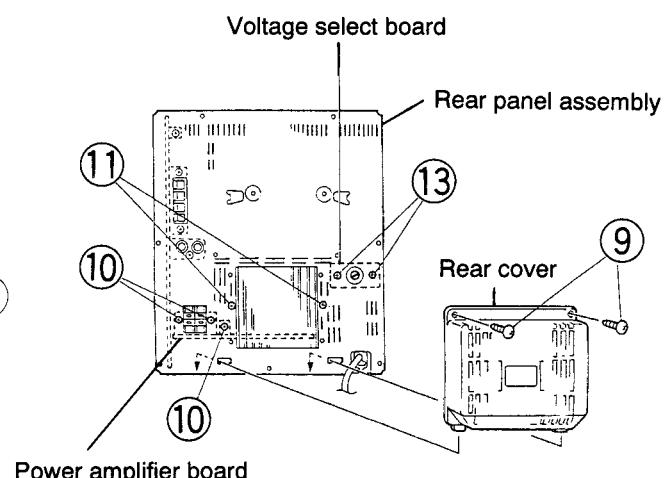


Fig. 5-17a (For U version only)

■ Removal of the Power Transformer

(See Figs. 5-18,5-19)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the rear panel assembly.
5. Remove the main amplifier board.
6. Remove the power amplifier board.
7. Remove the four screws ⑫ fastening the power transformer.
8. Disconnect the power amplifier board connector CN902 and then disconnect the parallel wire.
9. Either unsolder the power cord from the power supply board terminals TB001 and TB002 or remove the cord clamp inserted into the bottom chassis and remove.

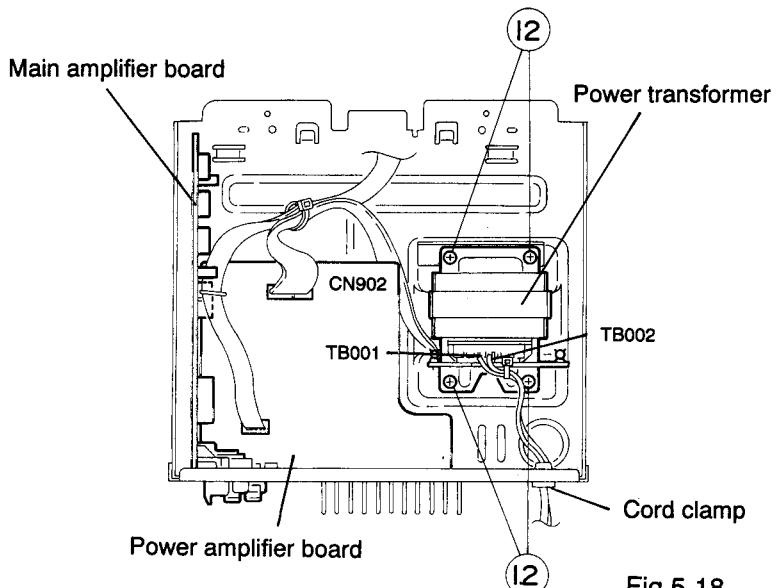


Fig.5-18

■ Removal of the Mic & Echo amplifier board

(See Fig. 5-A For A/U version only)

Remove the screw ⑭ fastening the Mic & Echo amplifier board inside the front panel assembly.

■ Removal of the Headphone & Mic jack board

(See Fig. 5-A)

Remove the two screws ⑮ fastening the headphone & Mic jack board assembly inside the front panel

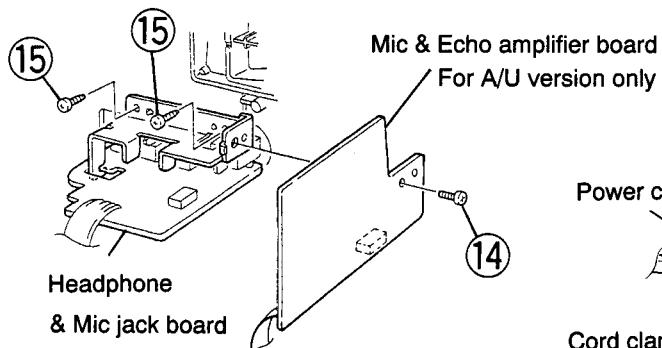


Fig.5-A

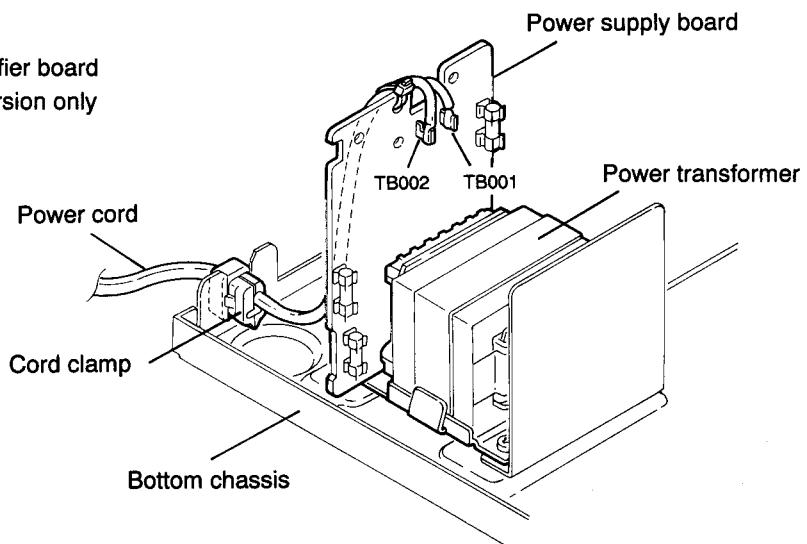


Fig.5-19

『Front Panel Assembly Sections』

■ Removal of the Front Panel

(See Figs. 5-20~5-23)

1. Remove the metal cover.
 2. Remove the CD traverse mechanism assembly.
 3. Remove the front panel assembly.
 4. Remove the volume knob from the front of the front panel assembly.(See Fig. 5-20)
 5. Remove the nut fastening the volume control from the front panel assembly.(See Fig. 5-20)
 6. Remove the eight screws ① fastening the stay bracket inside the front panel assembly.(See Fig. 5-21)
 7. Remove the nine screws ② fastening the system CPU board.(See Fig. 5-22)
 8. Disconnect the card wires protruding from connector CN305 on the head amplifier & mechanism control board from connector CN700 on the system CPU board.
- (See Figs. 5-22,5-23)

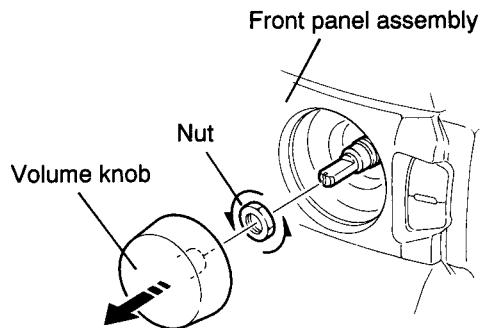


Fig.5-20

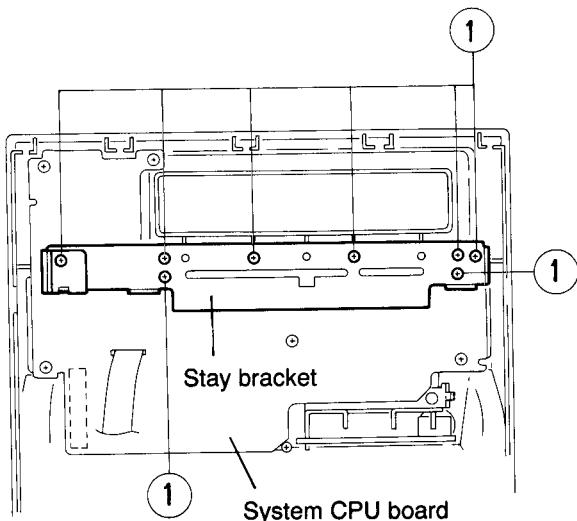


Fig.5-21

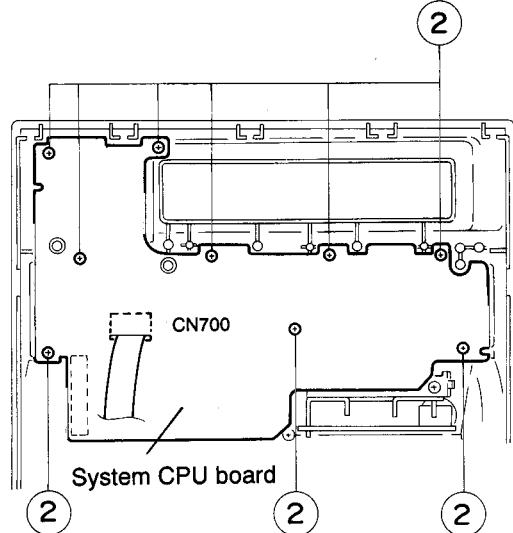


Fig.5-22

■ Removal of the Cassette Mechanism Assembly

(See Fig. 5-23)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the eight screws ③ fastening the cassette mechanism assembly to the inside of the front panel assembly.
5. Disconnect the card wires from connectors CN305 and CN306 on the head amplifier & mechanism control board.

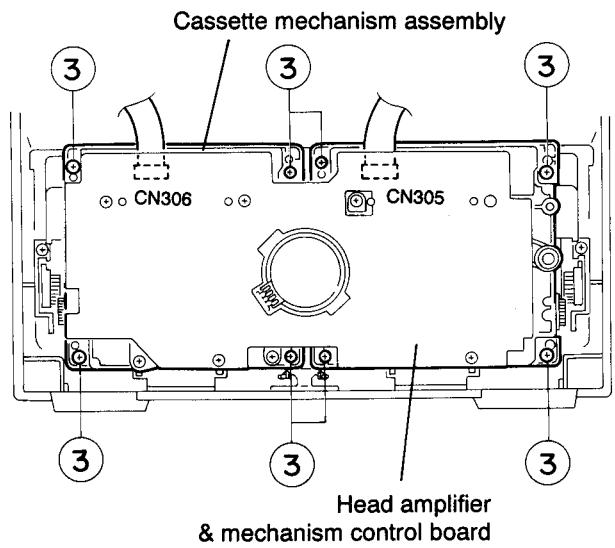


Fig.5-23

« Cassette Mechanism Section »

■ Removing the Playback, Recording and Eraser Heads

1. While shifting the trigger arms seen on the right side of the head mount in the arrow direction, turn the flywheel R in counterclockwise direction until the head mount has gone out with a click (See Fig. 5-24).
2. When the flywheel R is rotated in counterclockwise direction, the playback head will be turned in counterclockwise direction from the position in Fig. 5-25 to that in Fig. 5-26.
3. At this position, disconnect the flexible P.C. board (outgoing from the playback head) from the connector CN301 on the head amp. & mechanism control P.C. board.
4. After dismounting the FPC holder, remove the flexible P.C. board.
5. Remove the flexible P.C. board from the chassis base.
6. Remove the spring ④ from behind the playback head.
7. Loosen the reversing azimuth screw retaining the playback head.
8. Take out the playback head from the front of the head mount.
9. The recording and eraser heads should also be removed similarly according to Steps 1~8 above.

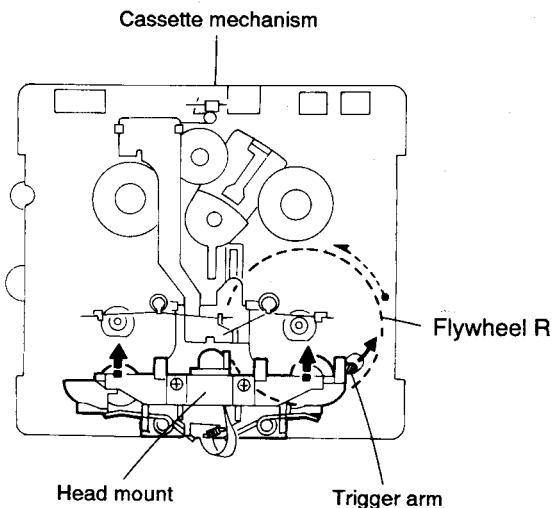


Fig.5-24 (Mechanism A side)

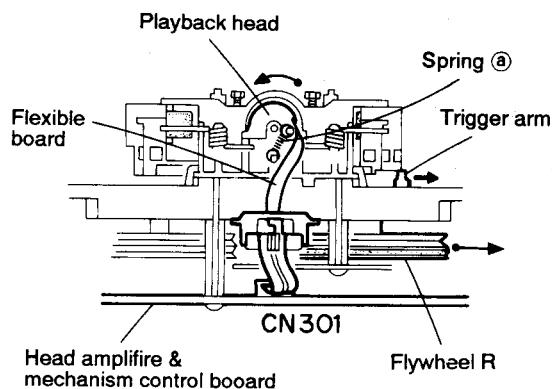


Fig.5-25 (Mechanism A side)

● Reassembling the Playback, Recording and Eraser Heads

1. Reassemble the playback head from the front of the head mount to the position as shown in Fig. 5-26.
2. Fix the reversing azimuth screw.
3. Set the spring ④ from behind the playback head.
4. Attach the flexible P.C. board to the chassis base, and fix it with the FPC holder as shown in Fig. 5-26.
5. The recording and eraser heads should also be reassembled similarly according to Steps 1~4 above.

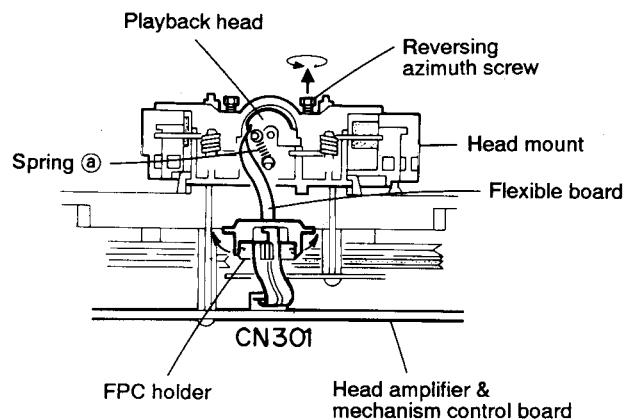


Fig.5-26 (Mechanism B side)

■ Removing the Head Amp. & Mechanism Control P.C. Board (See Fig. 5-27)

1. Remove the cassette mechanism assembly.
2. After turning over the cassette mechanism assembly, remove the five screws ① retaining the head amp. & mechanism control P.C. board.
3. Disconnect the connectors CN303 and CN304 on the P.C. board and the connectors CN1 on both the right and left side reel pulse P.C. boards.
4. When necessary, remove the 4pin parallel wire soldered to the main motor.

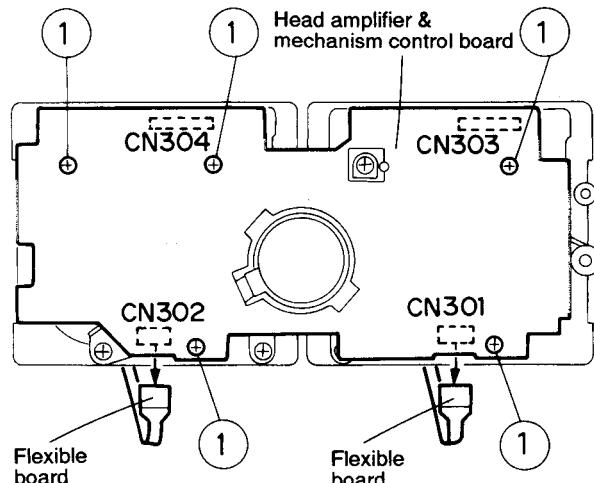


Fig.5-27

■ Removing the Capstan Motor Assembly

1. Remove the six screws ② retaining the capstan motor assembly (See Fig. 5-28).
2. While raising the capstan motor, remove the capstan belts A and B respectively from the motor pulley (See Figs. 5-28,5-29)

Caution 1: Be sure to handle the capstan belts so carefully that these belts will not be stained by grease and other foreign matter. Moreover, these belts should be hanged while referring to the capstan belt hanging method in Fig. 5-29,5-30.

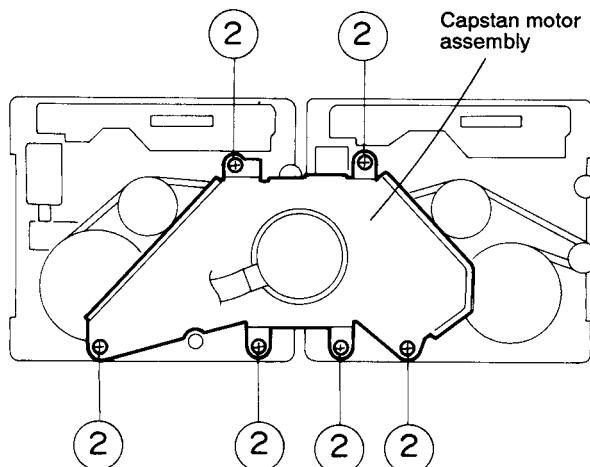


Fig.5-28

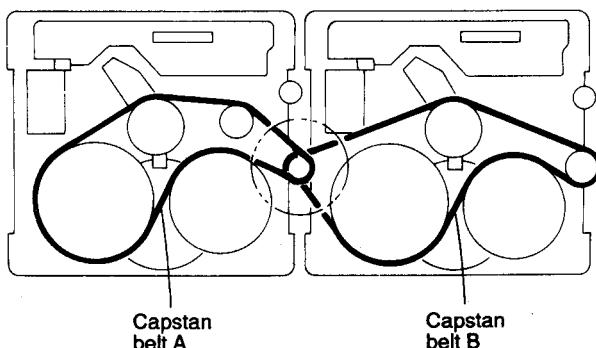


Fig.5-29

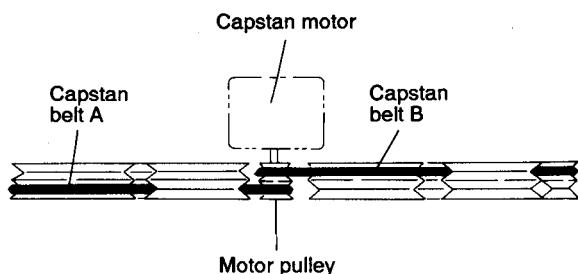
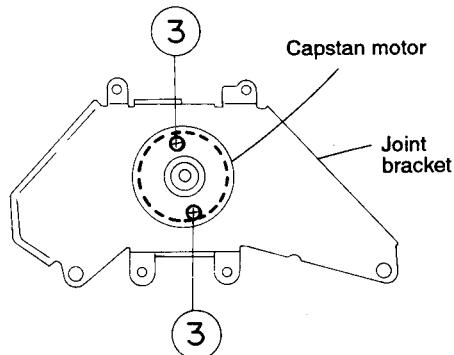


Fig.5-30

■ Removing the Capstan Motor (See Figs. 5-31)

From the joint bracket, remove the two screws ③ retaining the capstan motor.



■ Removing the Flywheel (See Figs. 5-32, 5-33)

1. Remove the head amp. & mechanism control P.C. board.
2. Remove the capstan motor assembly.
3. After turning over the cassette mechanism, remove the slit washers ④ and ⑤ fixing the capstan shafts R and L, and pull out the flywheels R and L respectively from behind the cassette mechanism.

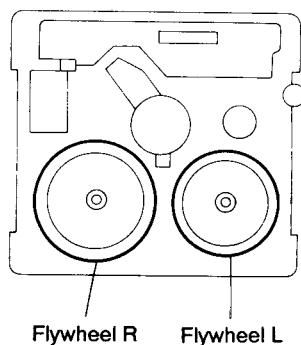


Fig.5-32

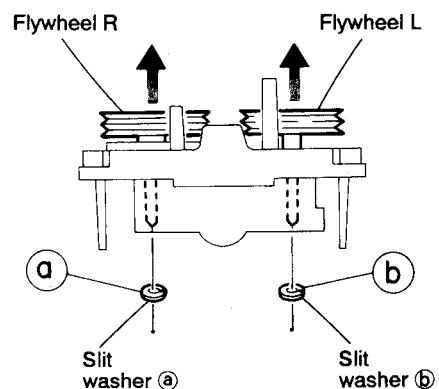


Fig.5-33

■ Removing the Reel Pulse P.C. Board and Solenoid (See Figs. 5-34)

1. Remove the five pawls (⑥, ⑦, ⑧, ⑨ and ⑩) retaining the reel pulse P.C. board.
2. From the surface of the reel pulse P.C. board parts, remove the two pawls ⑪ and ⑫ retaining the solenoid.

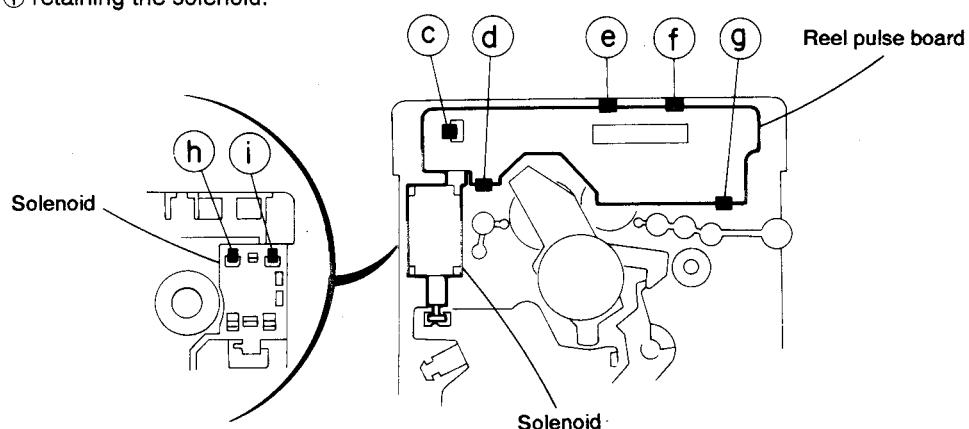


Fig.5-34

《CD Traverse Mechanism Sections》

■ Removing the CD Servo control board (See Fig. 5-35).

1. Remove the Metal cover.
2. Remove the CD Traverse mechanism assembly.
3. From bottom side the CD Traverse mechanism assembly, remove the one screw ① retaining the CD Servo control board.
4. From the connectors CN601, CN603, CN604 on the CD Servo control board, disconnect the card wire, from the connector CN602, disconnect the 6pin connector wire.
5. Disengage the two engagements "A", remove the CD Servo control board.

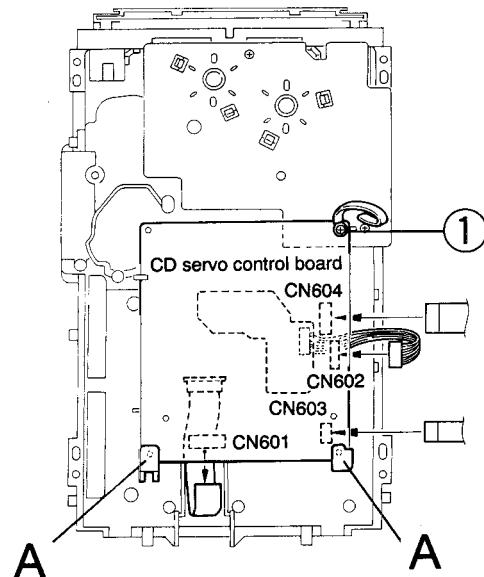


Fig.5-35

■ Removing the CD tray assembly (See Figs. 5-36~5-38)

1. Remove the front panel assembly.
2. Remove the CD Traverse mechanism assembly.
3. Remove the CD Servo control board.
4. From the T. bracket section "B" and clamper base section "C", remove both of the edges fixing the rod (See Figs. 5-36 and 5-37).
5. Remove the screw ② retaining the Disc stopper (See Fig. 5-37).
6. Remove the three screws ③ retaining the T. bracket (See Fig. 5-37).
7. Remove the screw ④ retaining the clamper assembly (See Fig. 5-37).
8. From the left side face of the chassis assembly, remove the one screw ⑤ retaining both of the return spring and lock lever. (See Fig. 5-38)
9. By removing the pawl at the section "D" fixing the return spring, dismount the return spring (See Fig. 5-38).
10. Remove the three lock levers (See Fig. 5-38).

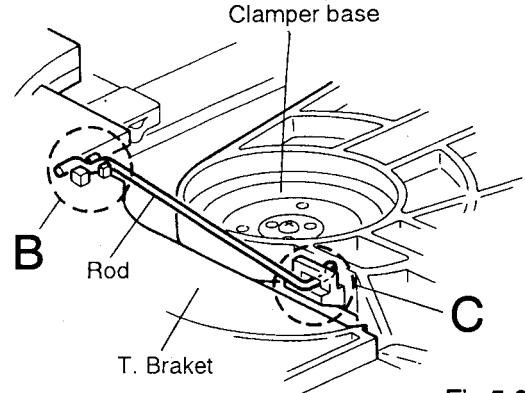


Fig.5-36

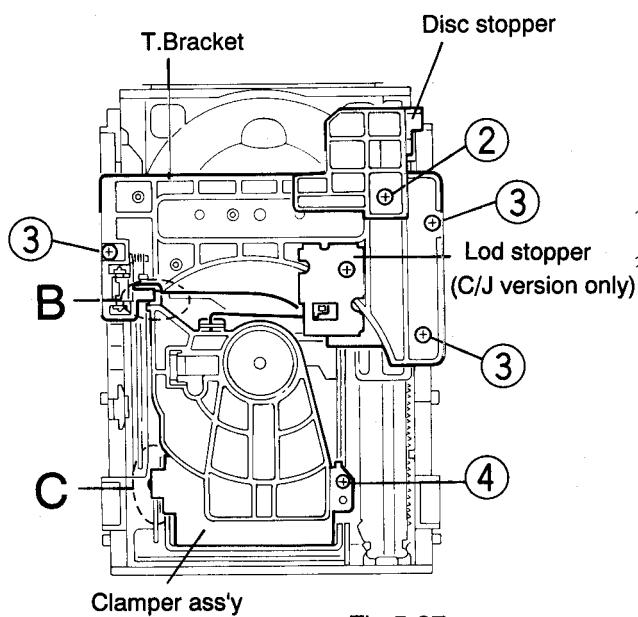


Fig.5-37

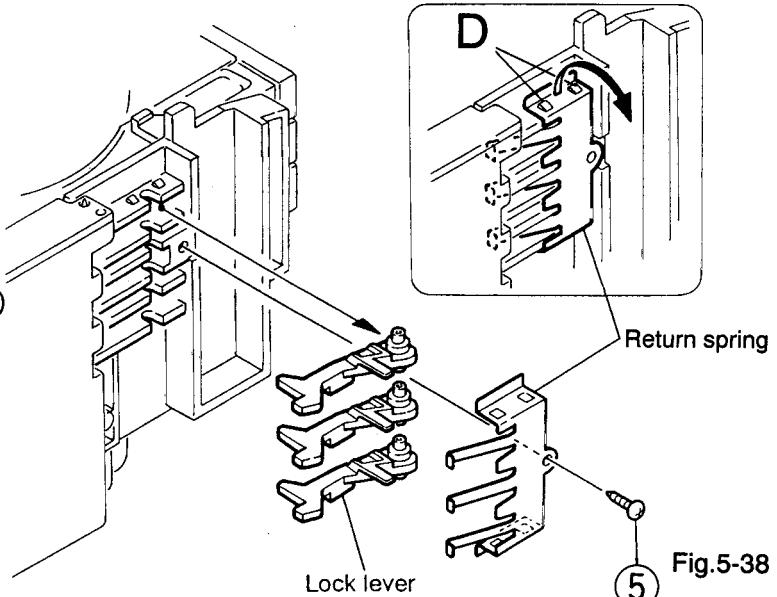


Fig.5-38

11. Check whether the lifter unit stopper has been caught into the hole at the section "E" of CD tray assembly as shown in Fig. 5-39.

12. Make sure that the driver unit elevator is positioned as shown in Fig. 5-40 from to the second or fifth hole on the left side face of the CD Traverse mechanism assembly.

[Caution] In case the driver unit elevator is not at the above position, set the elevator to the position as shown in Fig. 5-41 by manually turning the pulley gear as shown in Fig. 5-42.

13. Manually turn the motor pulley in the clockwise direction until the lifter unit stopper is lowered from the section "E" of CD tray assembly (See Fig. 5-42).

14. Pull out all of the three stages of CD tray assembly in the arrow direction "F" until these stages stop (See Fig. 5-40).

15. At the position where the CD tray assembly has stopped, pull out the CD tray assembly while pressing the two pawls "G and G'" on the back side of CD tray assembly (See Fig. 5-43). In this case, it is easy to pull out the assembly when it is pulled out first from the stage CD tray assembly.

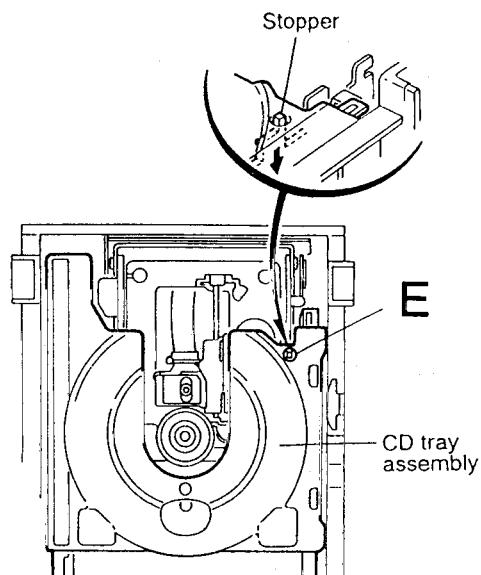
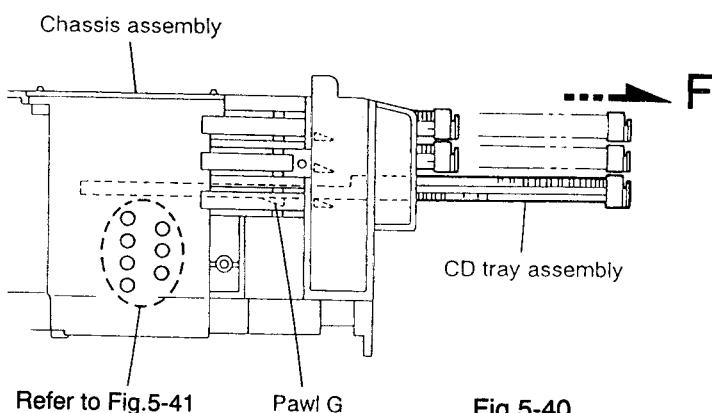


Fig.5-39



Refer to Fig.5-41

Fig.5-40

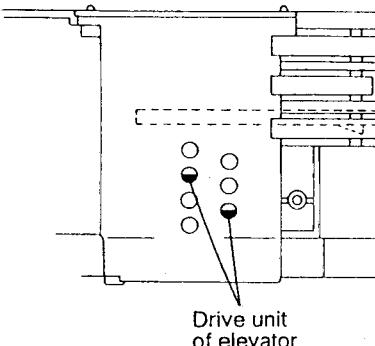


Fig.5-41

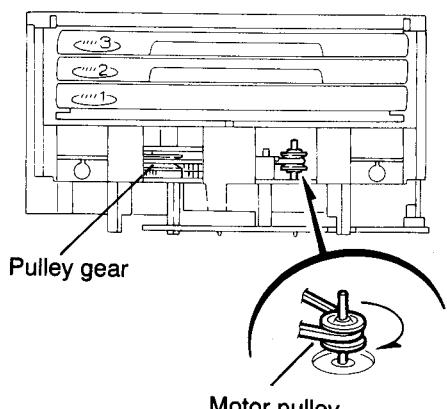


Fig.5-42

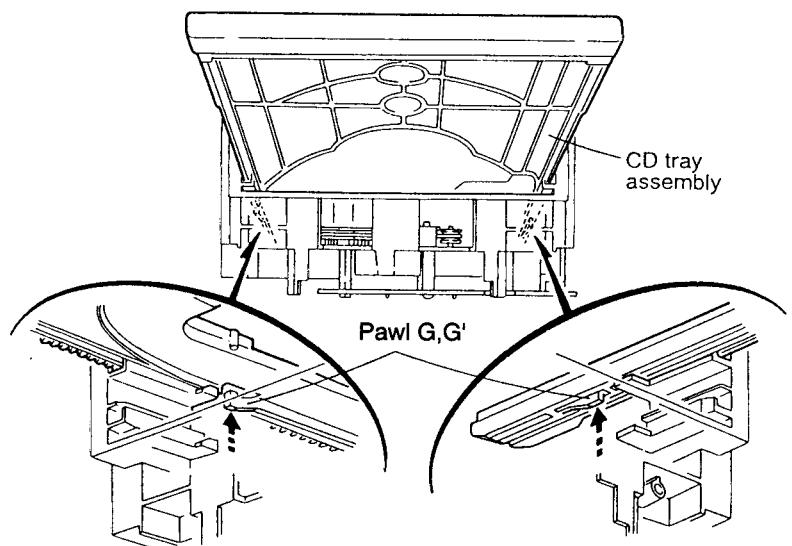


Fig.5-43

■ Removing the CD mechanism assembly (See Fig. 5-44)

1. While turning the cams R1 and R2 assembly in the arrow direction "H", align the shaft "I" of the CD mechanism assembly to the position shown in Fig. 5-44.
2. Remove the four screws ⑥ retaining the CD mechanism assembly (See Fig. 5-44).

■ Removing the CD mechanism (See Figs. 5-45 and 5-46)

1. For dismounting only the CD mechanism without removing the CD mechanism assembly, align the shaft "J" of the CD mechanism assembly to the position shown in Fig. 5-45 while turning the cam R1 and R2 assembly in the arrow direction "K".
2. By raising the CD mechanism assembly in the arrow direction "L", remove the assembly from the lifter unit (Fig. 5-46).

Cam R1, R2 assembly

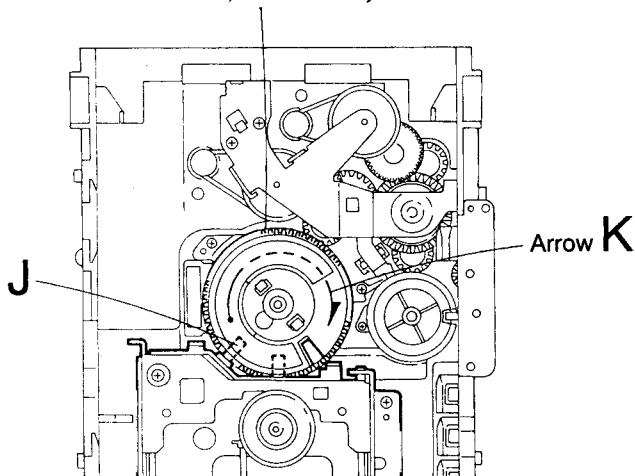
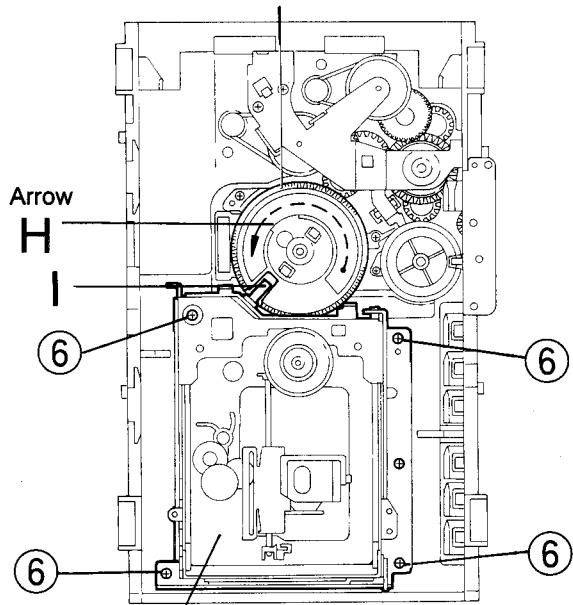


Fig.5-45

Cams R1,R2 assembly.



CD mechanism assembly.

Fig.5-44

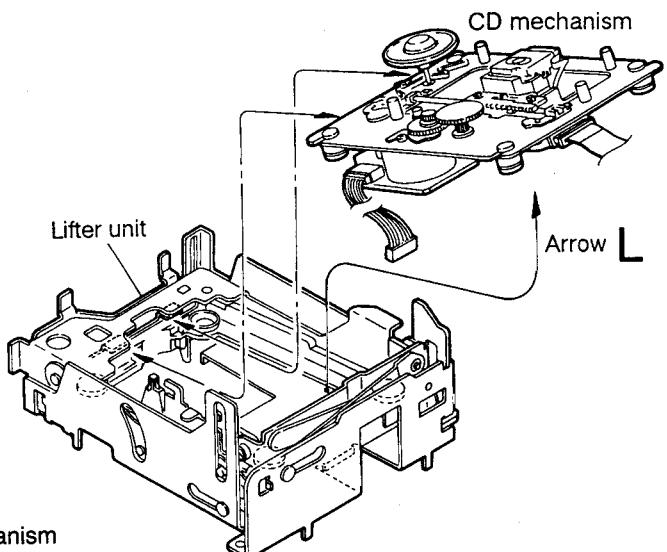


Fig.5-46

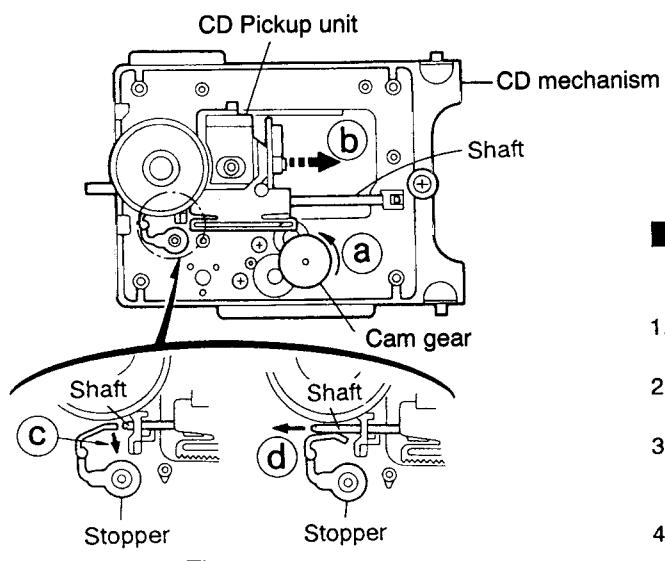


Fig.5-47

■ Removing the CD pickup unit (See Fig.5-47)

1. Move the cam gear in the arrow direction ④. Then, the CD pickup unit will be moved in the arrow direction ⑤.
2. According to the above step, shift the CD pickup unit to the center position (See Fig.5-47).
3. While pressing the stopper retaining the shaft in the arrow direction ③, pull out the shaft in the arrow direction ④ (See Fig.5-47).
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit.

■ Removing the actuator motor board

(See Figs. 5-48 and 5-49)

1. Absorb the four soldered positions "M" of the right and left motors with a soldering absorber (See Fig. 5-48).
2. Remove the two screws ⑦ retaining the actuator motor board (See Fig. 5-48).
3. Remove the two screws ⑧ retaining the tray select switch board (See Fig. 5-49).

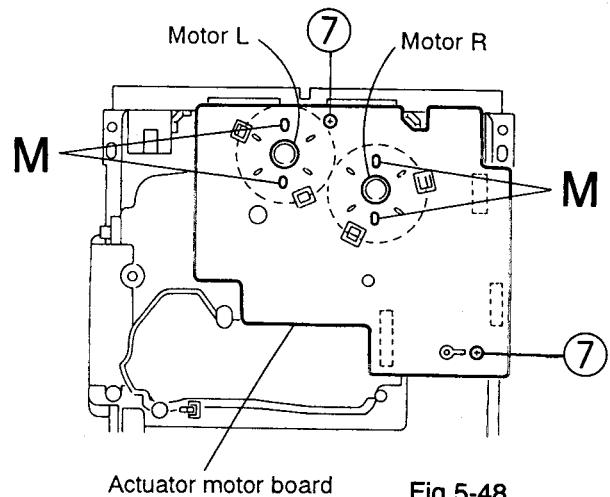


Fig.5-48

■ Removing the cam unit

(See Figs. 5-50~5-52)

1. Remove the CD mechanism assembly.
2. While turning the cam gear L, align the pawl "N" position of the drive unit to the notch position (Fig. 5-50) on the cam gear L.
3. Pull out the drive unit and cylinder gear (See Fig. 5-51).
4. While turning the cam gear L, align the pawl "O" position of the select lever to the notch position (Fig. 5-52) on the cam gear L.
5. Remove the four screws ⑨ retaining the cam unit (cam gear L and cams R1/R2 assembly) (See Fig. 5-52).

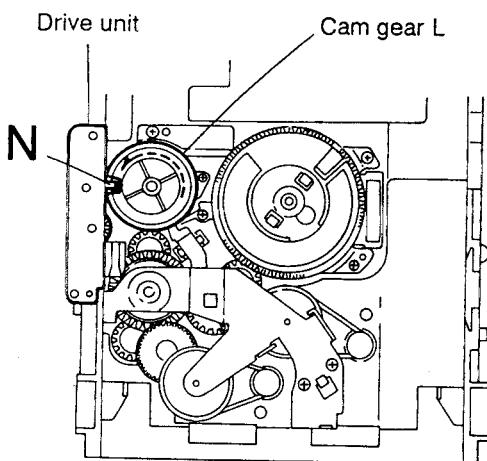


Fig.5-50

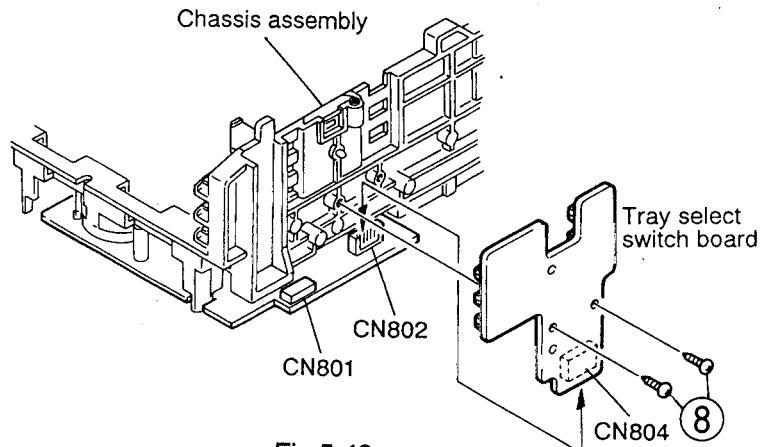


Fig.5-49

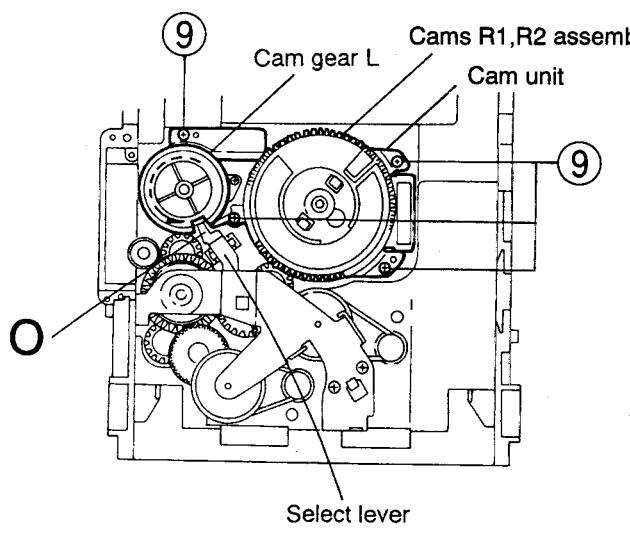


Fig.5-52

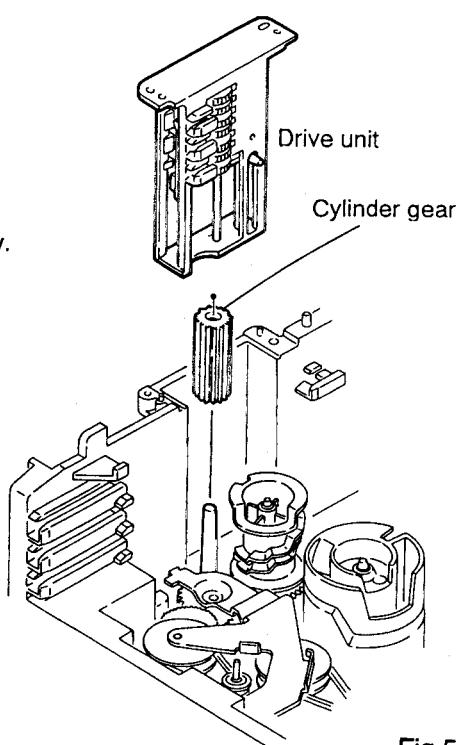


Fig.5-51

■ Removing the actuator motor and belt

(See Figs. 5-53-5-56)

1. Remove the two screws ⑩ retaining the gear bracket (See Fig. 5-53).
2. While pressing the pawl "P" fixing the gear bracket in the arrow direction, remove the gear bracket (See Fig. 5-53).
3. From the notch "Q section" on the chassis assembly fixing the edge of gear bracket, remove and take out the gear bracket (See Fig. 5-54).
4. Remove the belts respectively from the right and left actuator motor pulleys and pulley gears (See Fig. 5-53).
5. After turning over the chassis assembly, remove the actuator motor while spreading the four pawls "R" fixing the right and left actuator motors in the arrow direction (See Fig. 5-55).

[Note] When the chassis assembly is turned over under the conditions wherein the gear bracket and belt have been removed, then the pulley gear as well as the gear, etc. constituting the gear unit can possibly be separated to pieces. In such a case, assemble these parts by referring to the assembly and configuration diagram in Fig. 5-56.

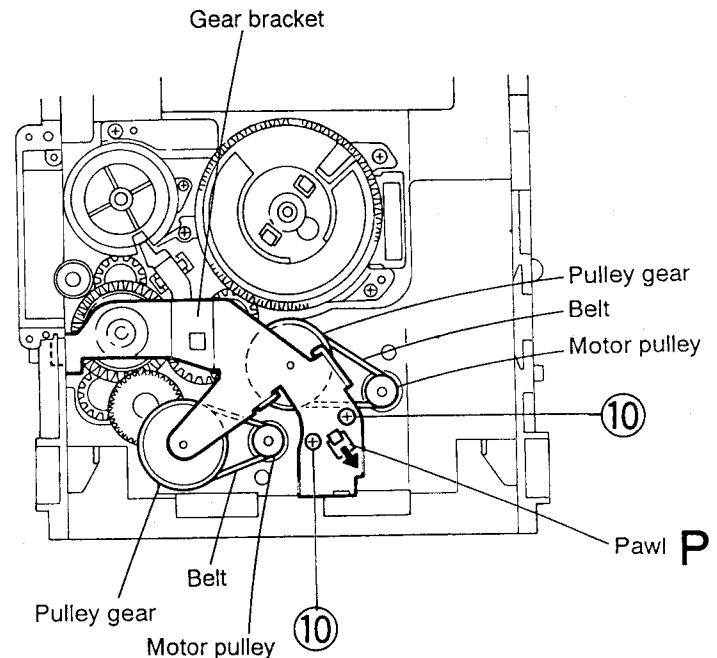


Fig.5-53

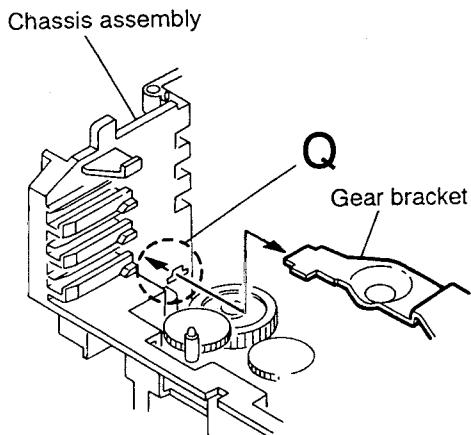


Fig.5-54

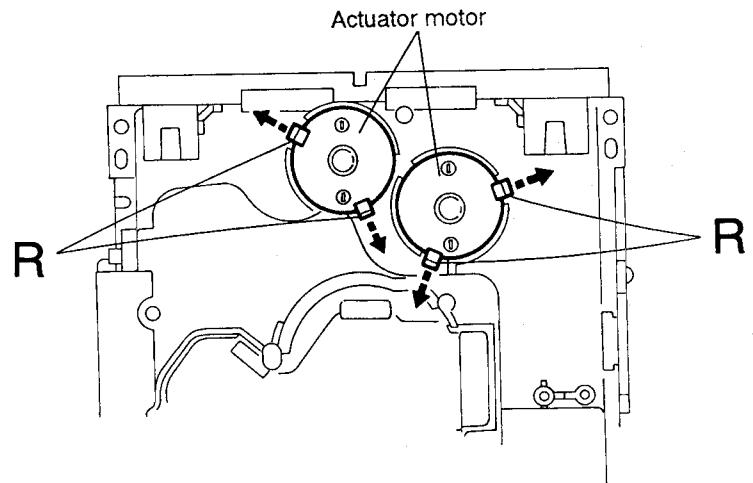


Fig.5-55

Assembly and Configuration Diagram

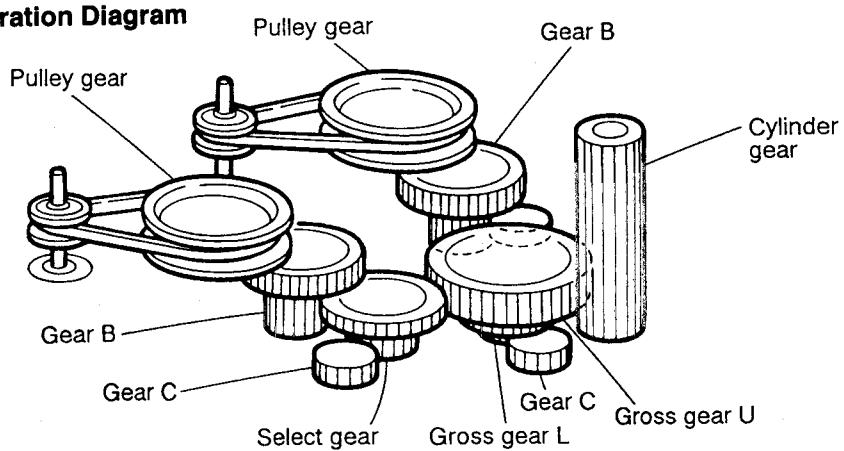


Fig.5-56

■ Removing the cams R1/R2 assembly and cam gear L (See Fig. 5-57)

1. Remove the slit washer fixing the cams R1 and R2 assembly.
2. By removing the two pawls "S" fixing the cam R1, separate R2 from R1.
3. Remove the slit washer fixing the cam gear L.
4. Pull out the cam gear L from the C.G. base assembly.

■ Removing the C.G. base assembly

(See Figs. 5-57 and 5-58)

Remove the three screws ⑪ retaining the C.G. base assembly.

[Caution] To reassemble the cylinder gear, etc. with the cam unit (cam gear and cams R1/R2 assembly), gear unit and drive unit, align the position of the pawl "N" on the drive unit to that of the notch on the cam gear L. Then, make sure that the gear unit is engaged by turning the cam gear L. (See Fig.5-58)

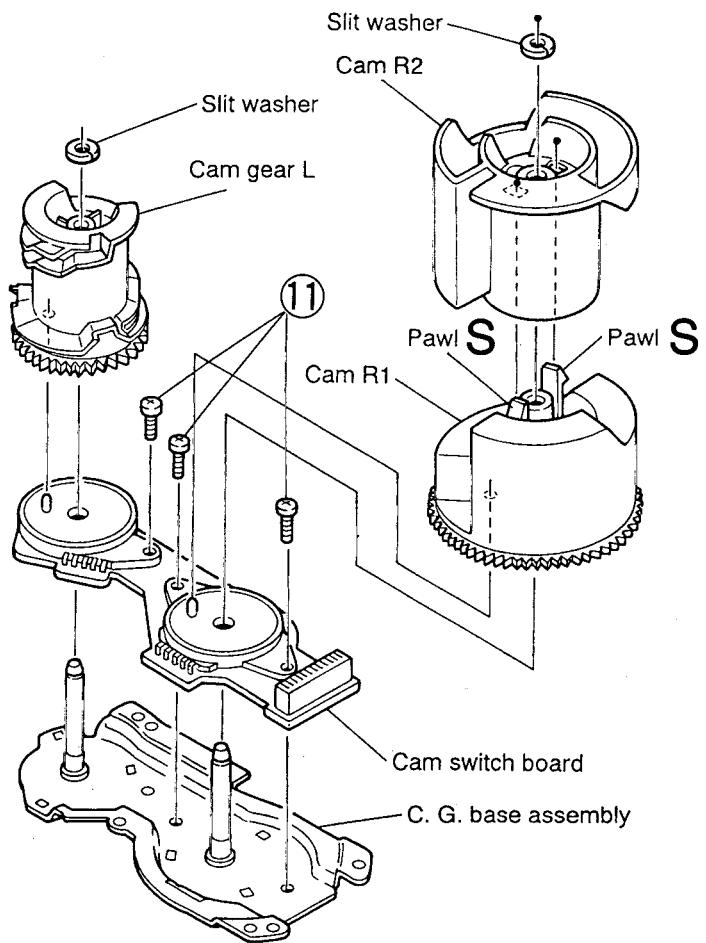


Fig.5-57

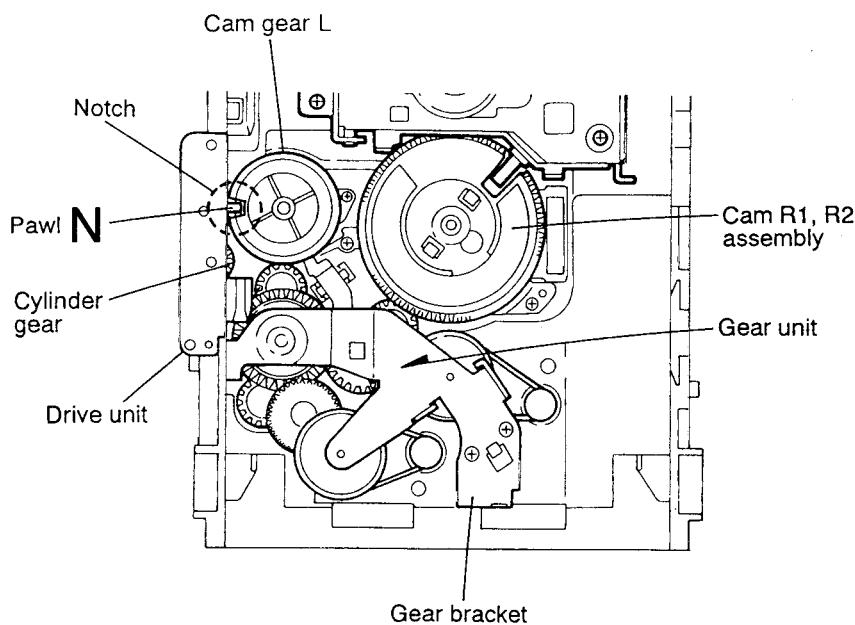


Fig.5-58

『 Speaker unit Section 』

■ **Removing the Saran board (See Fig. 5-59.)**

Hold the Saran board by the two side edges and pull it toward the front in order to detach it from the joint holders.

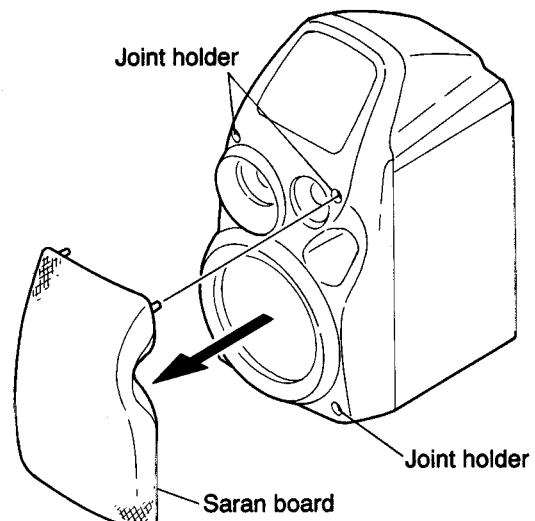


Fig. 5-59

■ **Removing the joint holders (See Fig. 5-60)**

Insert a Phillips screwdriver into each joint holder and remove it by levering. To avoid damaging the wooden cabinet, place a piece of batten wood as shown in Fig. 5-60.

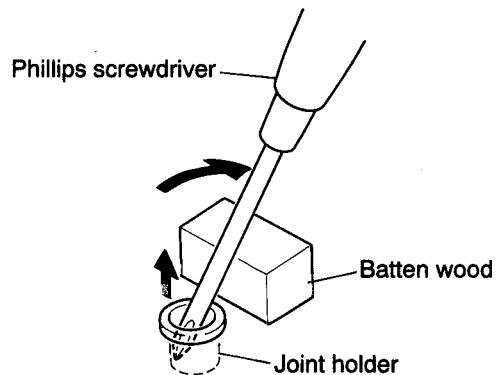


Fig. 5-60

■ **Removing the ornament panel (See Figs. 5-61 to 5-64.)**

1. Remove the Saran board.
2. Remove the joint holders.
3. Remove the four screws ① which retain the ornament panel from the front. (See Fig. 5-61.)

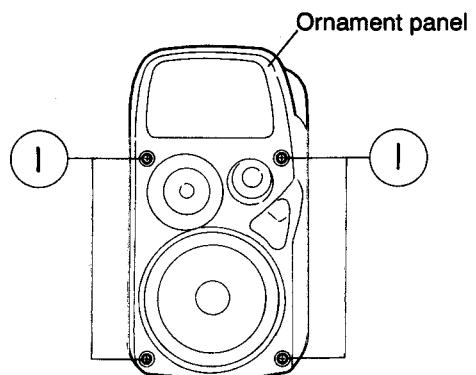


Fig. 5-61

4. Remove the two screws ② which retain the ornament panel from the rear. (See Fig. 5-62.)
5. Detach the ornament panel at the front of the speaker from the wooden cabinet by flipping it up from the lower edge. (See Fig. 5-63.)
6. Detach the ornament panel from the wooden cabinet from the rear and remove it. (See Fig. 5-64.)

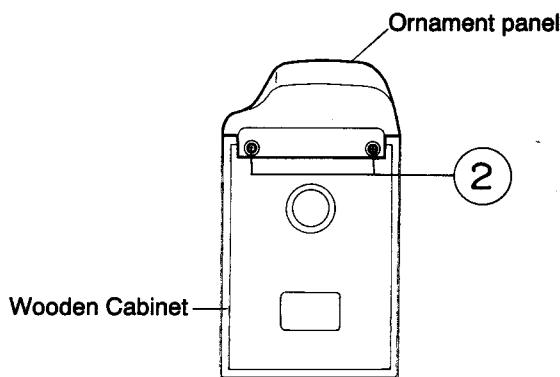


Fig. 5-62

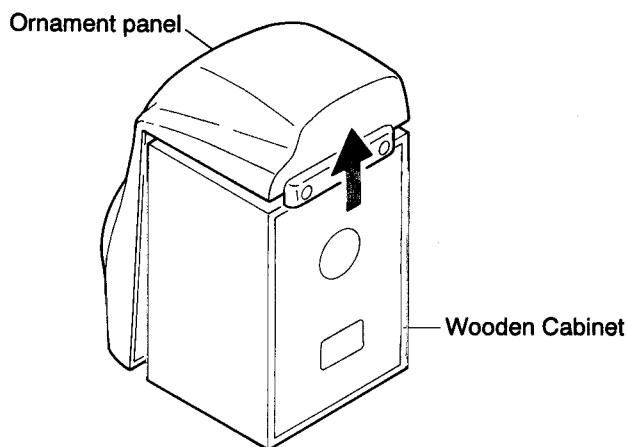


Fig. 5-63

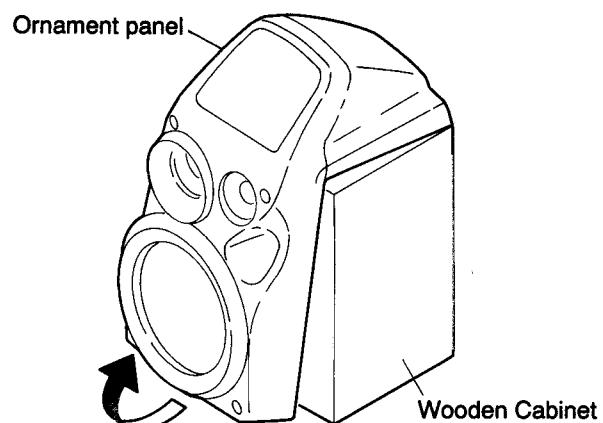


Fig. 5-64

■ Removing the speaker units

1. Remove the Saran board.
2. Remove the joint holders.
3. Remove the ornament panel.
4. Remove each of the speaker units by referring to the exploded view of the speaker unit (page 9-5).

6.Main Adjustment

■ Measurement Instruments Required for Adjustment

1. Low frequency oscillator
This oscillator should have a capacity to output 0dBs to 600 Ω at an oscillation frequency of 50Hz~20kHz.
2. Attenuator impedance: 600 Ω
3. Electronic voltmeter
4. Distortion meter
5. Frequency counter
6. Wow flutter
7. Test tape
VTT 712: Tape speed and running unevenness (3kHz)
VTT 724: Reference level (1kHz)
TMT 7036: Head angle (10kHz), playback frequency characteristics (1kHz) and dubbing frequency characteristics (63, 1 and 10kHz)
Because of frequency - mixed tape with 63, 1, 10 and 14kHz (250nWb/m - 24dB), use this tape together with a filter.
8. Blank tape
TAPE I : AC-225
TAPE II : AC-514
9. Torque gauge: For play and back tension
FWD (TW2111A), REV (TW2121A) and FF/REW (TW2231A)

● Standard measurement positions of volume

Sound mode	Flat position
Super-bas	Off
Up and down adjustment of volume.....	VOL. 23

Precautions for Measurement

1. Apply 30pF and 33kΩ to the IF sweeper output side and 0.082μF and 100kΩ in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly carefully.
7. In the case of BTL connection amp., the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.
8. For connecting a dummy resistor when measuring the output, use the wire with a greater core size.
9. Whenever any mixed tape is used, use the band pass filter (DV-12).

■ Measurement Conditions

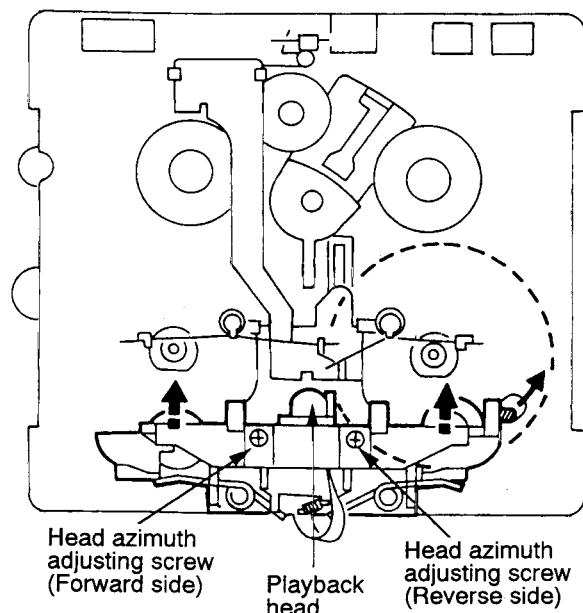
Power supply voltage.....	AC120V(50Hz:CJ) AC240V(50/60Hz:A) AC230V(50Hz:B/E/EN/G/VX) AC110~127V/220~240V(50/60Hz:UB/US/UT/U)
Reference output.....	Speaker: 0.775V/3 Ω Headphone: 0.245V/32 Ω
Reference frequency and input level · 1kHz, AUX: -8dBs	
Input for confirming recording and playback characteristics	AUX: -28dBs
Measurement output terminal	Speaker CN192
* Load resistance	3 Ω

● Radio Input signal

AM modulation frequency	400Hz
Modulation factor	30%
FM modulation frequency	400Hz
Frequency displacement.....	22.5kHz

『Arrangement of Adjusting Positions』

● Cassette mechanism section (Mechanism A section)



● Cassette mechanism section (Back side)

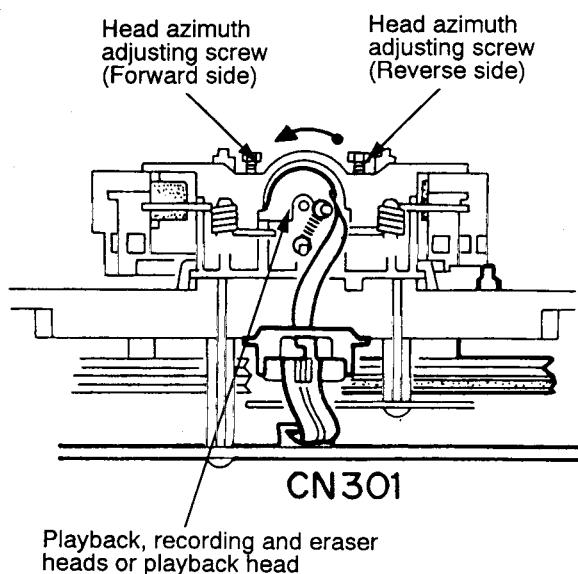


Fig.6-1

■ Cassette Mechanism Unit Section

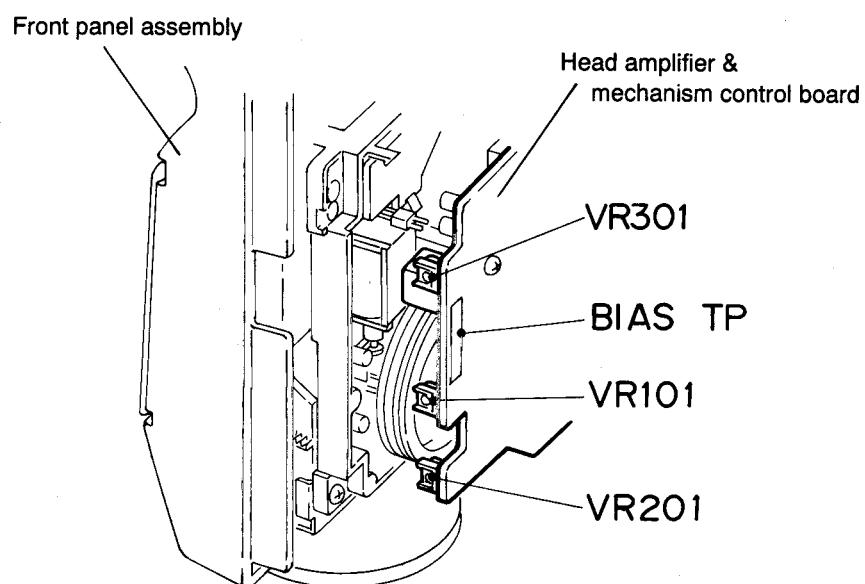


Fig.6-2

■ Tape Recorder Section

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Confirmation of head angle	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) : Headphone terminal	① Play back the test tape TMT7036 (10kHz). ② With the playback mechanism or recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum. After adjustment, lock the head azimuth at least by half a turn. ③ In either case, this adjustment should be performed in both the forward and reverse directions with the head azimuth screw.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Confirmation of tape speed	Test tape : VTT712 (3kHz) or TMT7036 (3kHz) Measurement output terminal : Headphone terminal	«Constant speed» Adjust VR301 so that the frequency counter reading becomes $3,010\text{Hz} \pm 15\text{Hz}$ when playing back the test tape VTT712 (3kHz) with the playback mechanism or playback and recording mechanism after ending forward winding of the tape.	Tape speed of decks (A and B) : $3,010\text{Hz} \pm 15\text{Hz}$	VR301

■ Reference Values for Confirmation Items

Items	Measurement conditions	Measurement method	Standard values	Remarks
Double tape speed	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) measurement output terminal : Headphone terminal	① After setting to the double speed motor, confirm that the frequency counter reading becomes $4,800 +400/-300\text{Hz}$ when the test tape VTT712 (3kHz) has been played back with the playback mechanism.	$4,800 +400/-300\text{Hz}$	Playback mechanism side
Difference between the forward and reverse speed	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) measurement output terminal : Headphone terminal	When the test tape VTT712 (3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanisms should be 6.0Hz or less.	6.0Hz or less	Both the playback and recording & playback mechanisms
Difference between the playback mechanism and recording and playback mechanism speed	Test tape : TMT7036 (10kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) measurement output terminal : Headphone terminal	When the test tape VTT712 (3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanisms should be 6.0Hz or less.	6.0Hz or less	Both the playback and recording & playback mechanisms
Wow & flutter	Test tape : TMT7036 (10kHz) Measurement output terminal : Headphone terminal	When the test tape VTT712 (3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of wow & flutter should be 0.25% or less (WRMS).	0.25% or less (WRMS)	Both the playback and recording & playback mechanisms

■ Electrical Performance

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Adjustment of recording bias current (Reference value)	<ul style="list-style-type: none"> Mode: Forward or reverse mode Recording mode Test tape : AC-514 and AC-225 Measurement output terminal : Both recording and headphone terminals 	<ol style="list-style-type: none"> With the recording and playback mechanism, load the test tapes (AC-514 to TYP II and AC-225 to TYP I), and set the mechanism to the recording and pausing conditions in advance. After connecting $100\ \Omega$ in series to the recorder head, measure the bias current with a valve voltmeter at both of the terminals. After resetting the [PAUSE] mode, start recording. At this time, adjust VR101 for LcH and VR201 for Rch so that the recording bias current values become $4.0\ \mu A$ (TYP I) and $4.20\ \mu A$ (TYP II). 	AC-225 : $4.20\ \mu A$ AC-514 : $4.0\ \mu A$	LcH :VR101 Rch :VR201
Adjustment of recording and playback frequency characteristics	<p>Reference frequency : 1kHz and 10kHz (REF.: -20dB)</p> <p>Test tape : TYP II : AC-514</p> <p>Measurement input terminal : OSC IN</p>	<ol style="list-style-type: none"> With the recording and playback mechanism, load the test tape (AC-514 to TYP II), and set the mechanism to the recording and pausing conditions in advance. While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and play back the test tape. While recording and playing back the test tape in TYP II, adjust VR101 for LcH and VR 201 for Rch so that the output deviation between 1kHz and 10kHz becomes $-1dB \pm 2dB$. 	Output deviation between 1kHz and 10kHz : $-1dB \pm 2dB$	LcH :VR101 Rch :VR201

■ Reference Values for Electrical Function Confirmation Items

Items	Measurement conditions	Measurement method	Standard values	Remarks
Recording bias frequency	<ul style="list-style-type: none"> Recording and playback side forward or reverse Test tape : TYP II : AC-514 Measurement terminal: BIAS TP on P.C. board 	<ol style="list-style-type: none"> While changing over to and from BIAS 1 and 2, confirm that the frequency is changed. With the recording and playback mechanism, load the test tape (AC-514 to TYP II), and set the mechanism to the recording and pausing conditions in advance. Confirm that the BIAS TP frequency on the P.C. board is $100kHz \pm 6kHz$. 	$100kHz \pm 6kHz$	
Eraser current (Reference value)	<ul style="list-style-type: none"> Recording and playback side forward or reverse Recording mode Test tape : AC-514 and AC-225 Measurement terminal: Both of the eraser head 	<ol style="list-style-type: none"> With the recording and playback mechanism, load the test tapes (AC-514 to TYP II and AC-225 to TYP I), and set the mechanism to the recording and pausing conditions in advance. After setting to the recording conditions, connect $1W$ in series to the eraser head on the recording and playback mechanism side, and measure the eraser current from both of the eraser terminals. 	TYP II : $120mA$ TYP I : $75mA$	

7. Out Line of Main IC

Refer to MX-D401T (Issue No. 10039)

8.Wiring Connections

1

2

3

4

5

■ B/C/E/G/J/EN/VX Version Section

A

B

C

D

E

F

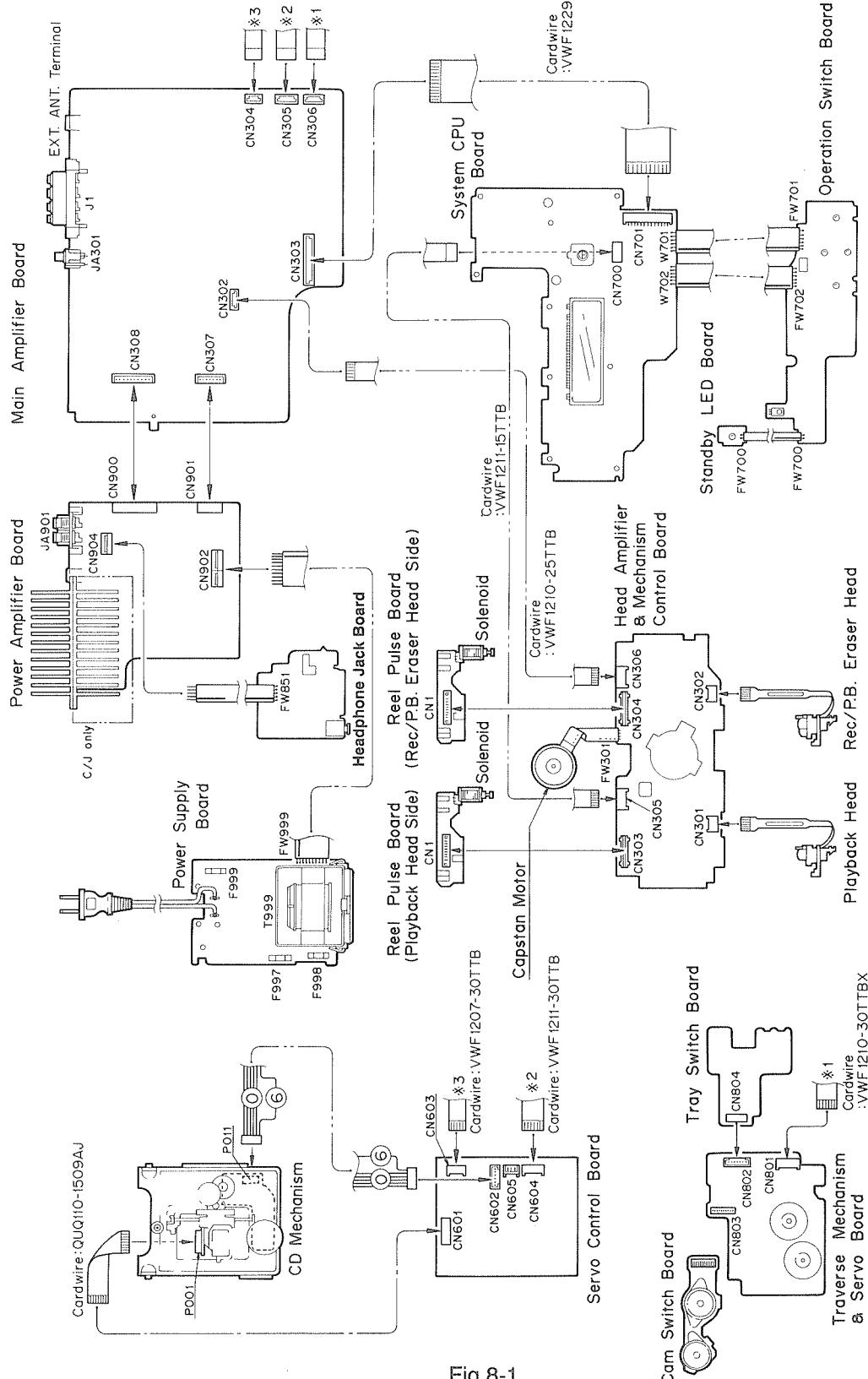


Fig.8-1

■ A/UB/US/UP/UT/U Version Section

are shown below.

- Brown
..... Red
..... Orange
..... Yellow
..... Green
..... Blue
..... Violet
..... Gray
..... White
..... Black
..... Pink
..... Light Blu

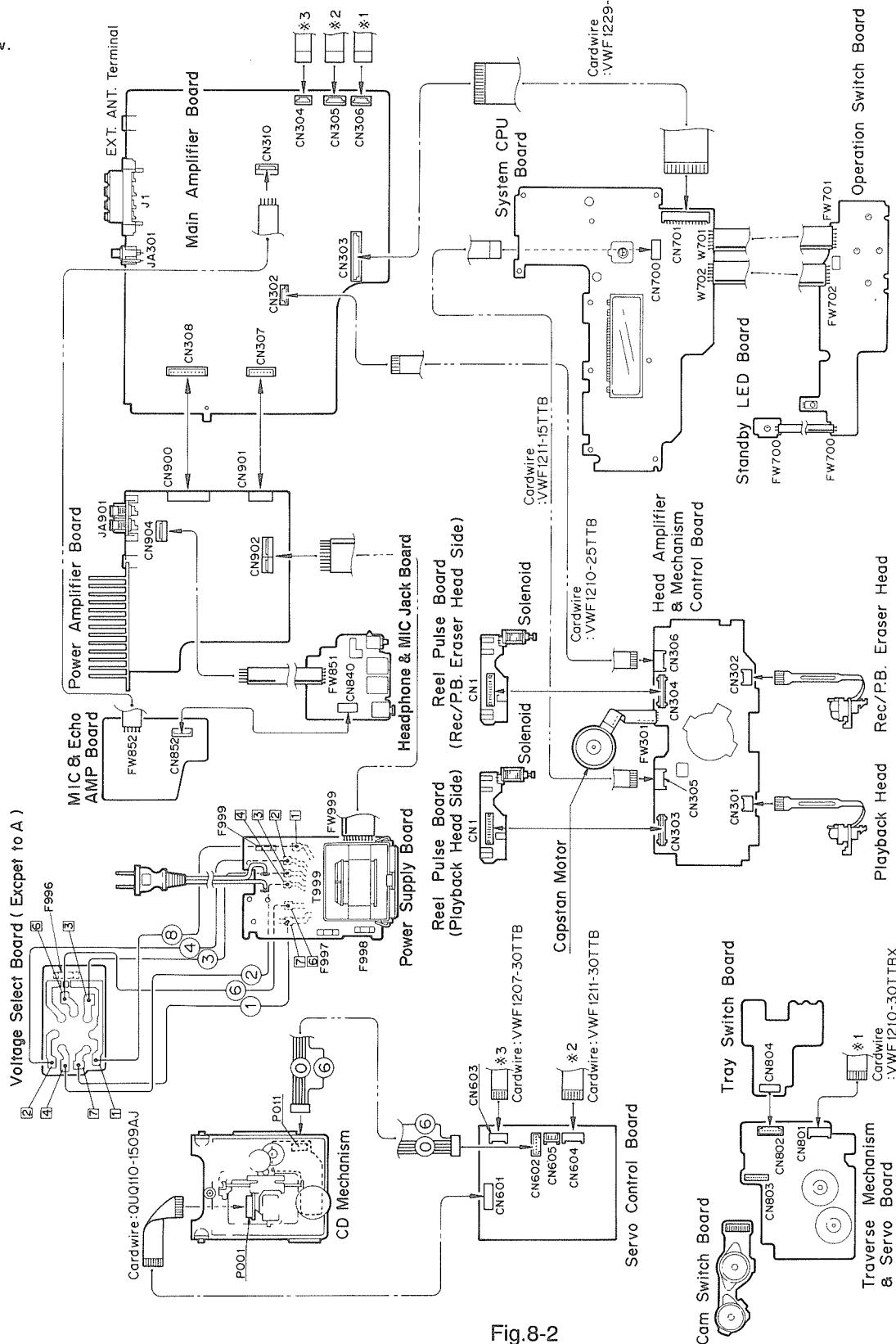
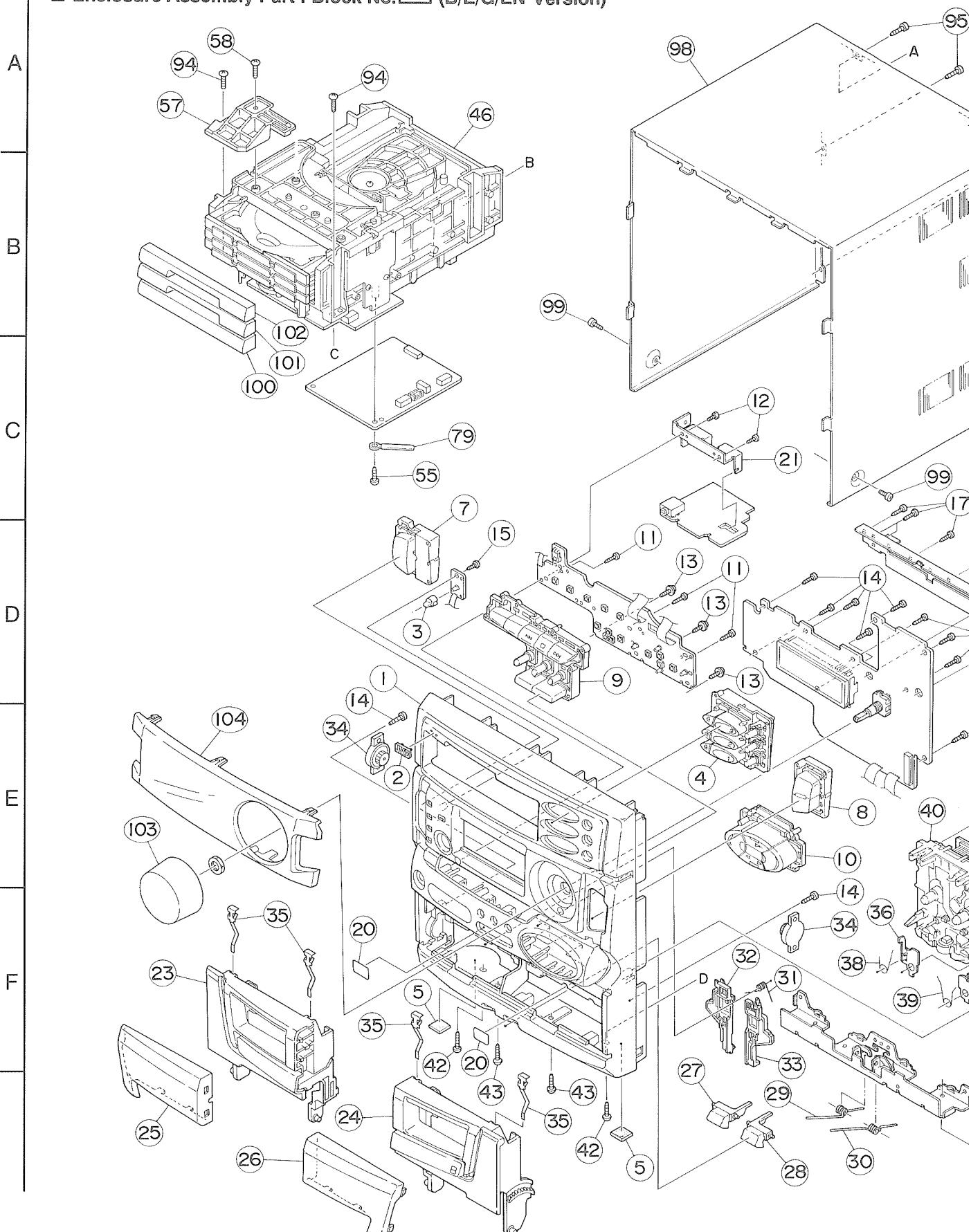


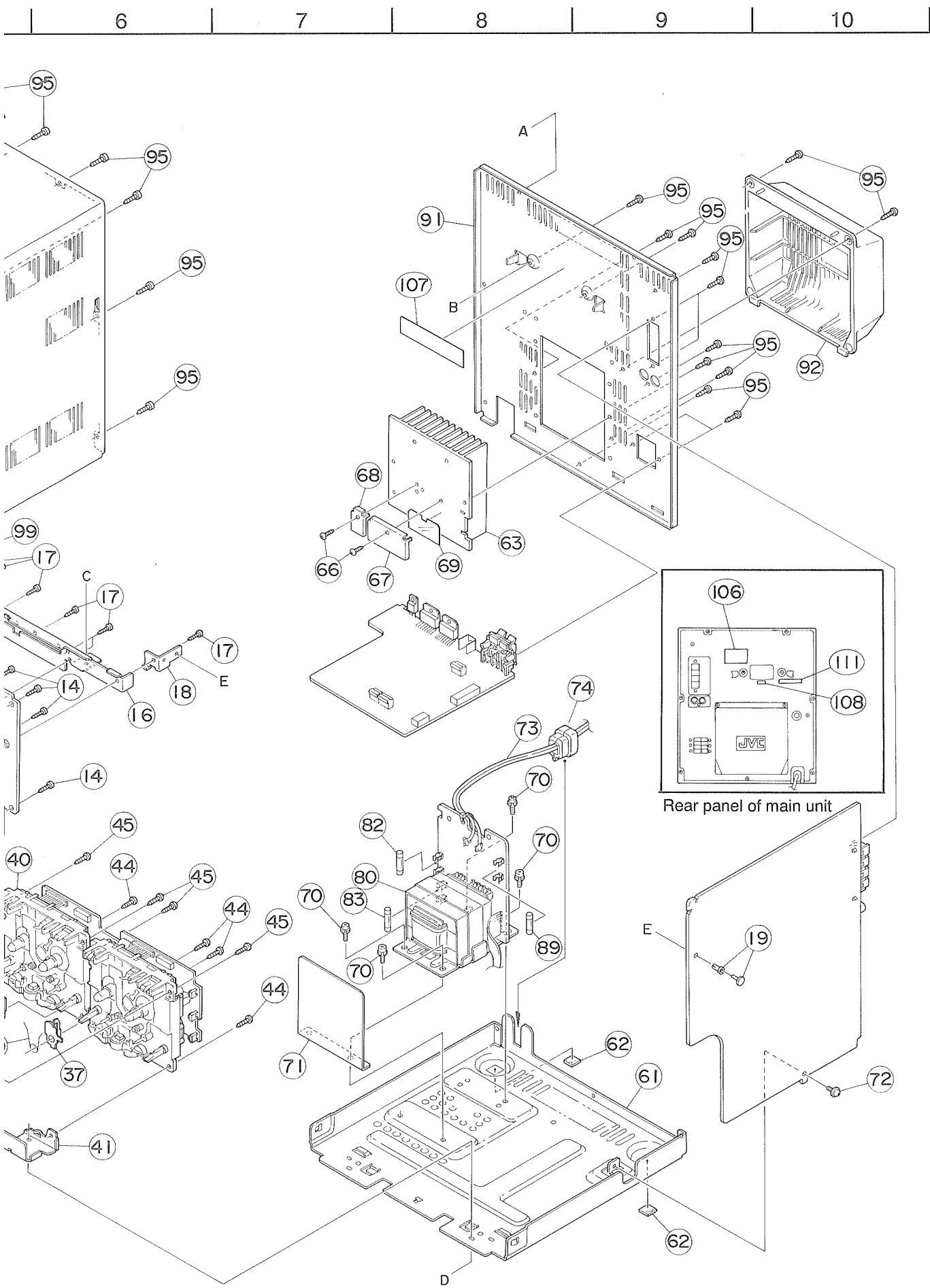
Fig.8-2

9.Analytic Drawing and Parts List

1 2 3 4 5

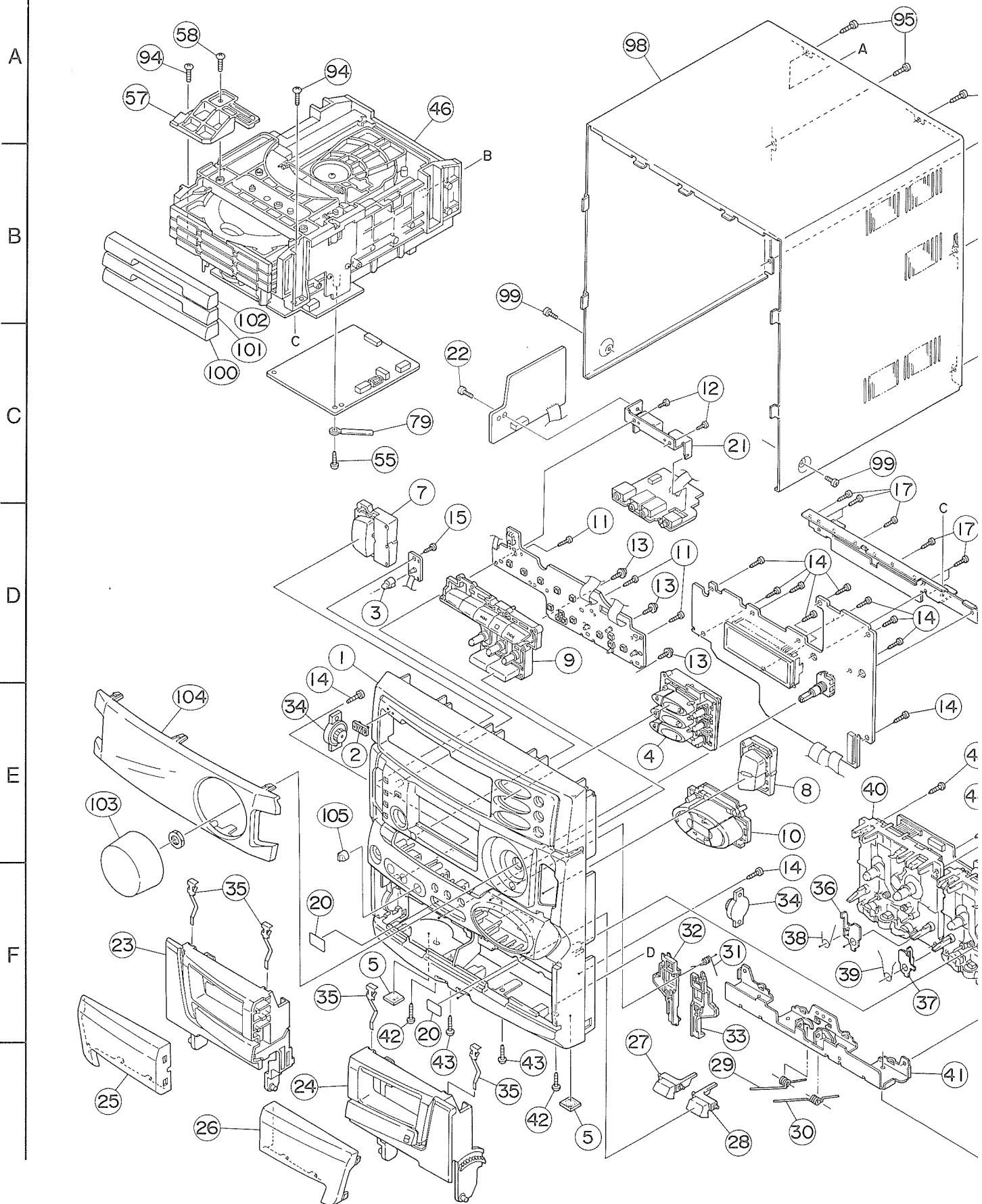
■ Enclosure Assembly Part : Block No. M1 (B/E/G/EN Version)





1 2 3 4 5

■ Enclosure Assembly Part : Block No. M1 (UB/US/UT/UP/U Version)



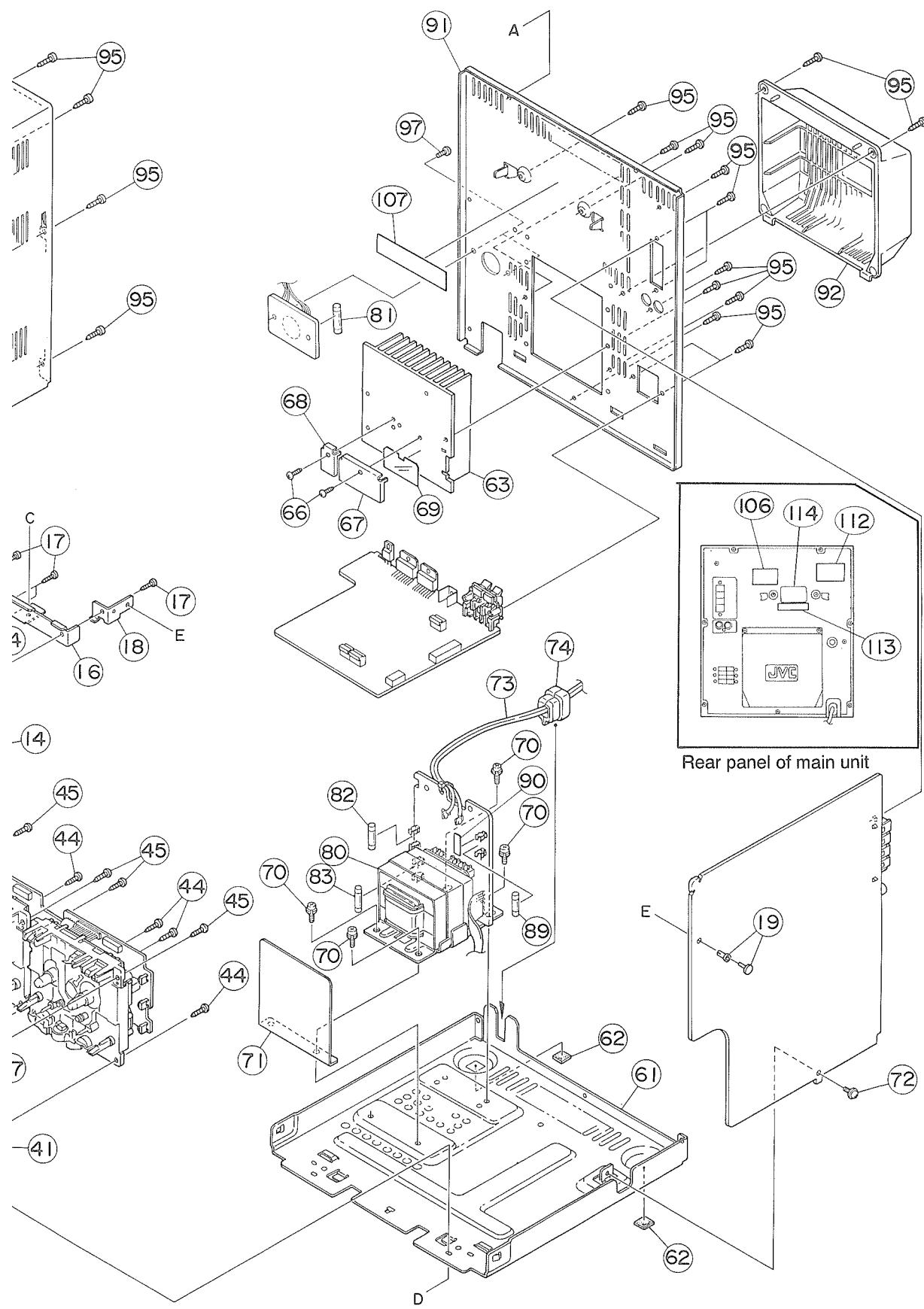
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■ Enclosure Assembly Parts List

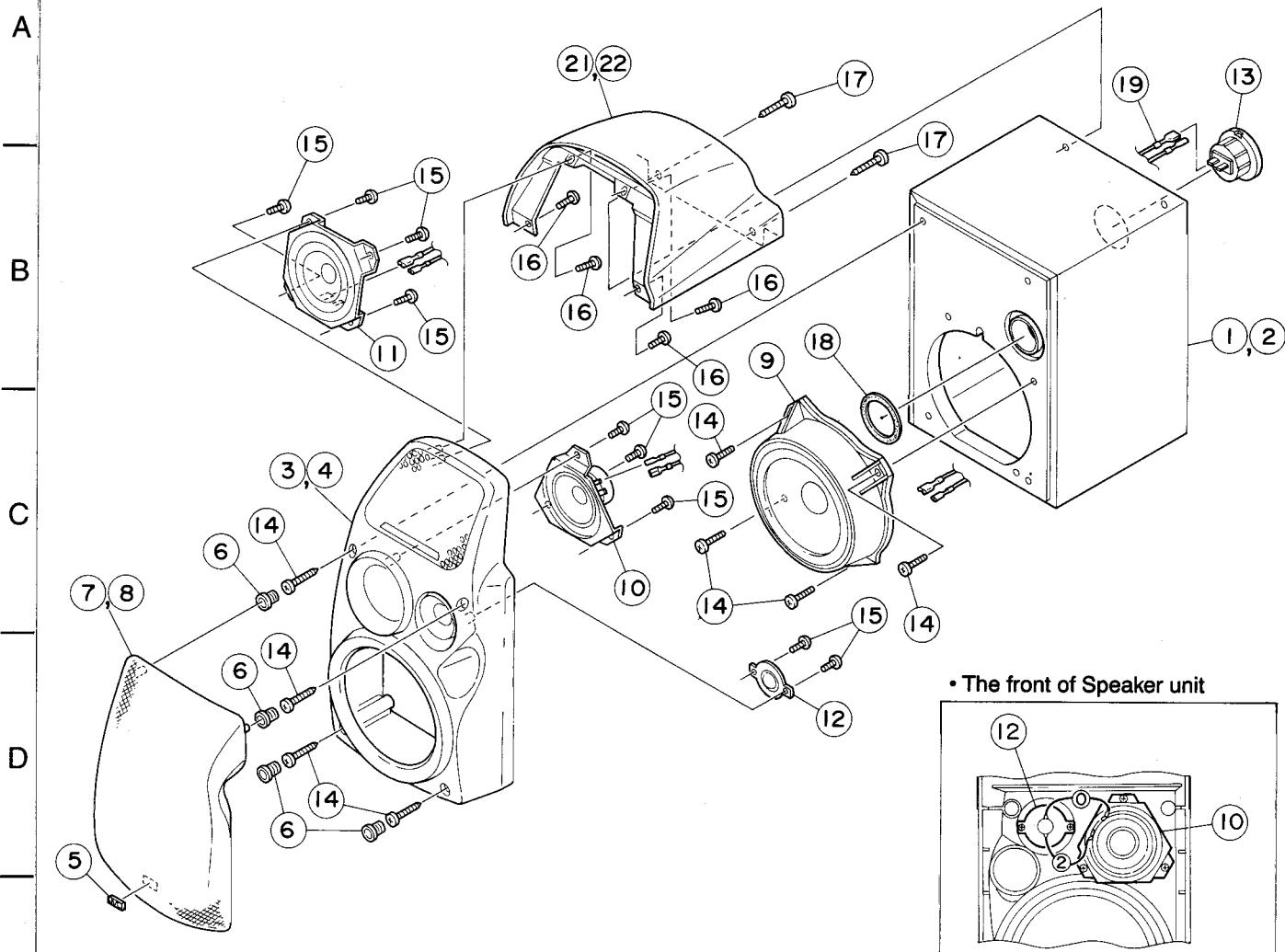
BLOCK NO. M1MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	FMJC1015-002	FRONT PANEL		1	B,E,EN,G	
		FMJC1015-003	FRONT PANEL		1	U,UB,UP,US,U	
	2	E406971-001SM	JVC MARK		1		
	3	FMJK4013-001	STANDEBY INDICA		1		
	4	FMXP2009-001	CD BOTTON		1		
	5	E75896-001	SPACER		2		
	7	FMXP2004-005	POWER BUTTON		1	B,E,EN,G	
	8	FMXP2004-004	POWER BUTTON		1	U,UB,UP,US,U	
	9	FMXP3017-002	SOUND BUTTON		1		
		FMXP2003-001	CONTROL BUTTON		1		
	10	FMXP2010-00A	FUN.BUTT.ASSY		1		
	11	SDSF2608Z	SCREW		3		
	12	SDSF2610Z	TAPPING SCREW		2		
	13	GBSF2608Z	SCREW		3		
	14	SDSF2608Z	SCREW		11		
	15	SDSF2608Z	SCREW		1		
	16	E309495-002SM	STAY BKT		1		
	17	SDSF2608Z	SCREW		8		
	18	FMKL4011-001	BRACKET		1		
	19	FMYH4004-001	PLASTIC RIVET		1		
	20	E69777-003	REF PLATE		2		
	21	FMKL4014-001	PHONE BRACKET		1		
	22	SBST3006Z	TAPPING SCREW		1	U,UB,UP,US,U	
	23	FMJT2004-001	CASS HOLDER(L)		1		
	24	FMJT2004-002	CASS HOLDER(R)		1		
	25	FMJK2003-001	CASS LENS(L)		1		
	26	FMJK2003-002	CASS LENS(R)		1		
	27	FMXP3018-001	EJECT BUTTON(A)		1		
	28	FMXP3019-001	EJECT BUTTON(B)		1		
	29	FMKW4009-001	HOLDER SPRING A		1		
	30	FMKW4010-001	HOLDER SPRING B		1		
	31	FMKW4011-001	SPRING		1		
	32	FMKS3002-001	EJECT LEVER (A)		1		
	33	FMKS3003-001	EJECT LEVER (B)		1		
	34	VYH7779-00B	DUMPER ASS'Y		2		
	35	VKY4180-001	CASSETTE SPRING		4		
	36	FMKL4012-003	EJECT SAFETY(A)		1		
	37	FMKL4013-001	EJECT SAFETY(B)		1		
	38	FMKW4007-001	SPRING (A)		1		
	39	FMKW4008-001	SPRING (B)		1		
	40	-----	C. MECHA ASS'Y		1		
	41	FMKL2002-001	HOLDER BRACKET		1		
	42	SBSG3010Z	T.SCREW		2		
	43	SBSG3010Z	T.SCREW		2		
	44	SBSG3010Z	T.SCREW		4		
	45	SBSF3010Z	SCREW		4		
	46	-----	CHANGER MECHA A		1		
	55	SBSF3008Z	SCREW		1		
	57	E309662-001	DISC STOPPER		1		
	58	SBSF3008Z	SCREW		1		
	61	FMKL1004-002	CHASSIS BASE		1		
	62	E75896-006	FELT SPACER		2		
	63	FMMH3005-001	HEAT SINK		1		
	65	SBSG3014CC	T.SCREW		2		
	66	SBSG3014CC	SCREW		2		

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
67	FMKL4007-001	BRACKET		1		
68	FMKL4015-001	BRACKET		1		
69	FMPK4003-001	MICA SHEET		1		
70	E65389-002	SPECIAL SCREW		4		
71	FMMA4003-001	TRANS.SHIELD		1		
72	GBST3006Z	SCREW		1		
73	QMP5530-0085BS	POWER CORD		1	B, UB	
	QMP39E0-200	POWER CORD		1	E, EN, G, US,	
	QMP7520-200	POWER CORD		1	U, UT	
	EMP7000-200	POWER CORD		1	UP	
74	QHS3771-108BS	CORD STOPPER		1	B	
	QHS3771-108	CORD STOPPER		1	E, EN, G	
	QHS3771-108	CORD STOPPER		1	U, UB, UP, US, U	
79	VKZ4001-110	WIRE HOLDER		1		
80	FMTP66M8-65A	POWER TRANS	T999	1	B, E, EN, G	
	FMTP66U8-65A	POWER TRANS	T999	1	U, UB, UP, US, U	
81	QMF51E2-R80SBS	FUSE	T996	1	U, UB, UP, US, U	
82	QMF51E2-1R25	FUSE	F997	1		
83	QMF51E2-1R25	FUSE	F998	1		
89	QMF51E2-R80SBS	FUSE	F999	1		
90	VND4003-073	FUSE LABEL	FL999	1	U, UB, UP, US, U	
91	FMJC1016-013KP	REAR PANEL		1	B, E, EN, G	
	FMJC1016-012	REAR PANEL		1	U, UB, US, UT	
	FMJC1016-014KP	REAR PANEL		1	UP	
92	E207356-001SM	REAR COVER		1		
94	SBSG3008Z	T.SCREW		2		
95	E73273-003	SPECIAL SCREW		20		
97	E73273-003	SCREW		2	U, UB, US, UT	
98	FMJC1013-005	METAL COVER		1		
99	SDSG3006M	T.SCREW		2		
100	FMJD2003-001	CD FITTING		1		
101	FMJD2003-002	CD FITTING		1		
102	FMJD2003-003	CD FITTING		1		
103	FMXL3001-001	M.VOL KNOB		1		
104	FMJK2002-003	WINDOW SCREEN		1		
105	E408765-004SM	MIC.KNOB		1	U, UB, UP, US, U	
106	E70891-001	CLASS 1 LABEL		1		
107	E406709-001	CAUTION LABEL		1		
108	E408919-001	BEAB LABEL		1	B	
	FMND4008-001	SEMKO LABEL		1	E, EN, G	
112	EMND3007-007	RETING LABEL		1	UT	
113	LE40210-001A	CAUTION LABEL		1	UT	
114	FMND3008-004	RATING LABEL		1	U	

1 | 2 | 3 | 4 | 5

■ Speaker unit Section: Block No. M5**■ Speaker unit Section Parts List**

BLOCK NO. M5MM

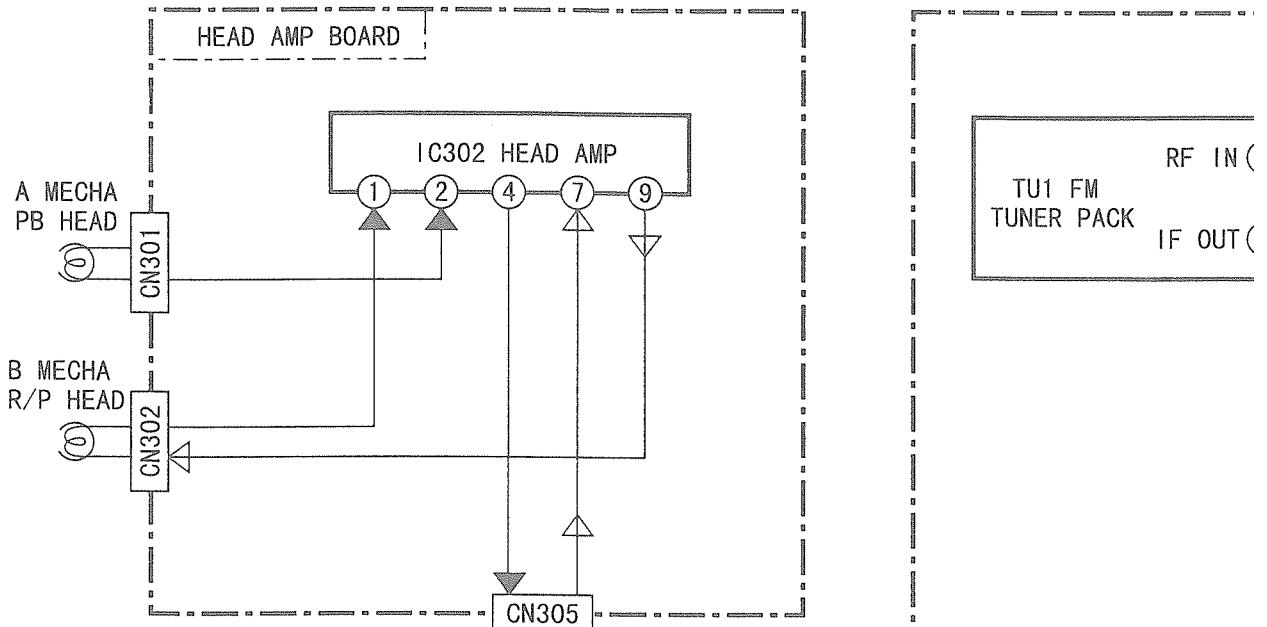
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EZC-SP-D5TR	WOOD CABINET		1		
	2	EZC-SP-D5TL	WOOD CABINET		1		
	3	E309698-003	ORNAMENT PANEL	RIGHT	1		
	4	E309698-004	ORNAMENT PANEL	LEFT	1		
	5	E75939-001	JVC MARK		1		
F	6	E407076-001	JOINT HOLDER		4		
	7	E103105-005	SARAN BOARD	RIGHT	1		
	8	E103105-006	SARAN BOARD	LEFT	1		
	9	HSA1699-03N	CONE SPEAKER		1		
	10	HSA0799-01L	CONE SPEAKER		1		
	11	HSA0899-02H	CONE SPEAKER		1		
	12	E409044-001	TWEETER ASSY		1		
	13	E03823-092	SPK.TERMINAL		1		
	14	SDSA4020Z	TAPPING SCREW		8		
	15	SBSF4008Z	TAPPING SCREW		9		
	16	SBSF1040Z	TAOOGING SCREW		4		
	17	SDSA4020M	SCREW		2		
	18	E308987-001	SPACER		1		
	19	E409191-001	SPEAKER NETWORK.		1		
	21	E309915-001	TOP COVER	RIGHT	1		
	22	E309915-002	TOP COVER	LEFT	1		

《 MEMO 》

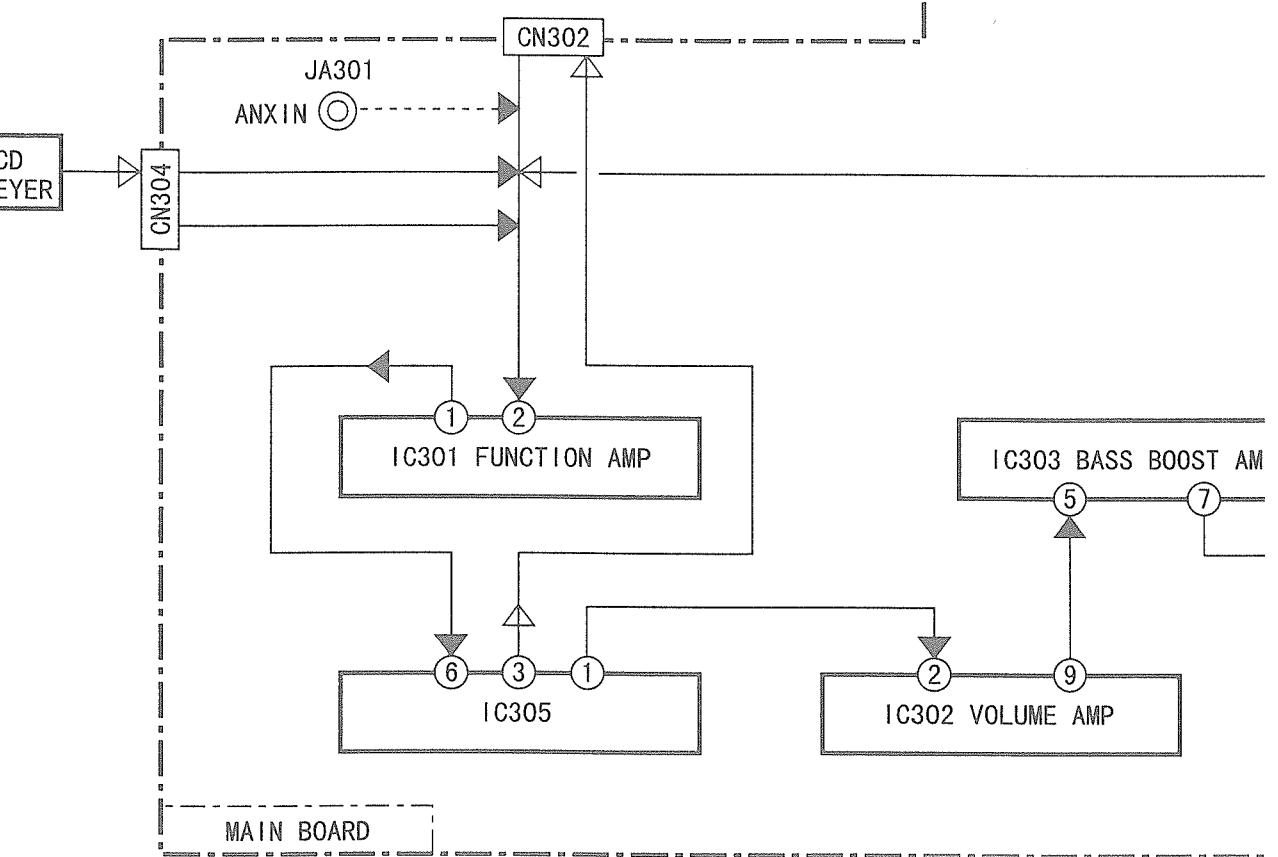
10. Block Diagram

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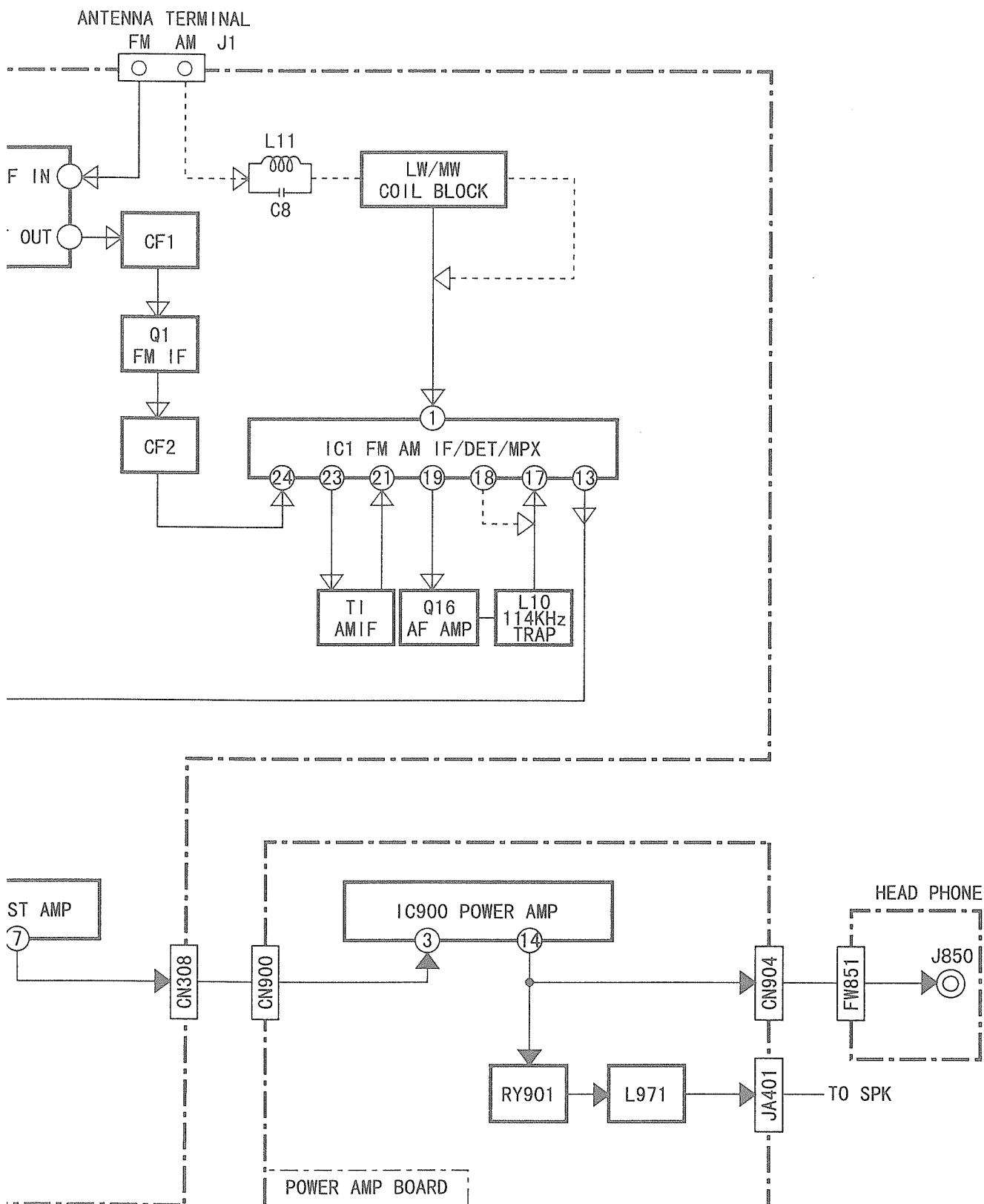
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11. Standard Schematic Diagram

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■ Head Amplifier & Mechanism Control Circuit : Drawing No.VDH1033-001PV

A

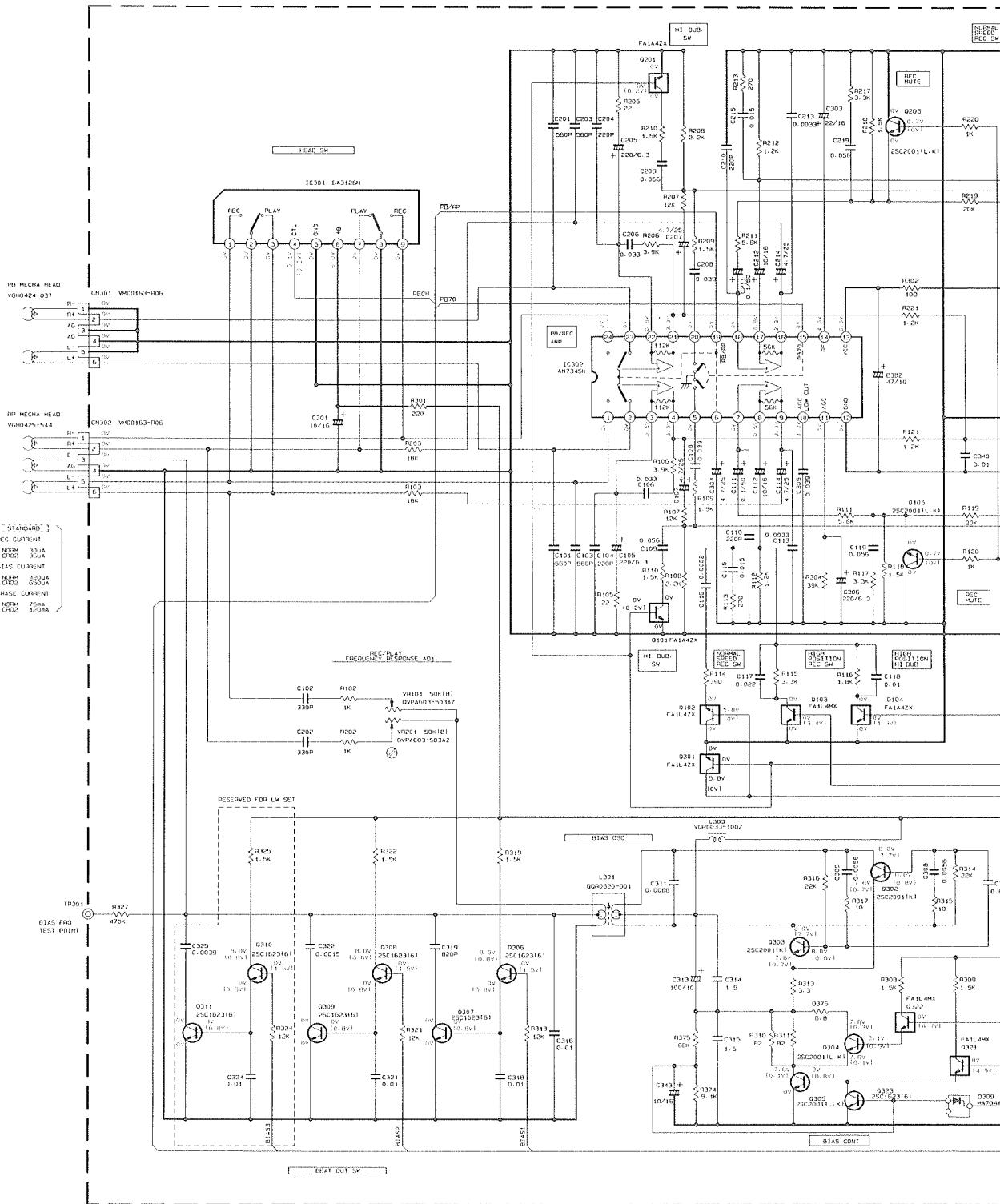
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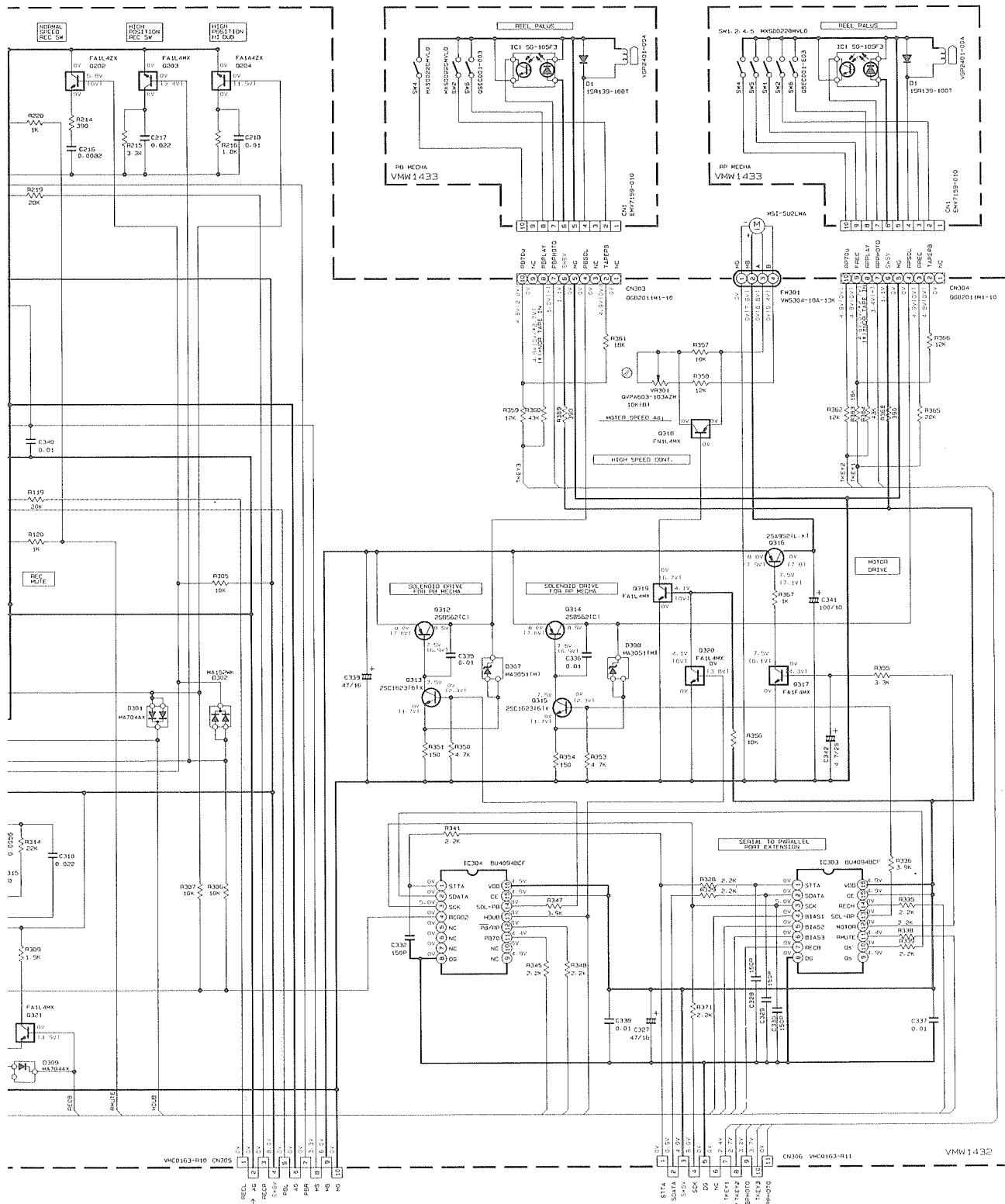
NOTES

1. VOLTMAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. || IS INVERT MODE.
 2. UNLESS OTHERWISE SPECIFIED.
- ALL RESISTANCE VALUES ARE IN OHM(Ω).
- ALL CAPACITORS ARE CERAMIC CAPACITOR.
- ALL CAPACITANCE VALUES ARE IN μ F(μ H).
- ALL INDUCTANCE VALUES ARE IN μ H(mH).
- ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μ F)/RATED VOLTAGE (V).
- \square POLYPROPYLENE CAPACITOR

Note : VDH103301pv (s/G)

TABLE 1. DIGITAL TR LIST

PART NO.	CONSTRUCTION	REF. NO.	
FA1L4M		0318	FA1L4M
FA1A4Z		0101/0201	FA1A4Z
FA1L4Z		0104/0204	FA1L4Z
		0105/0202	
		0301	



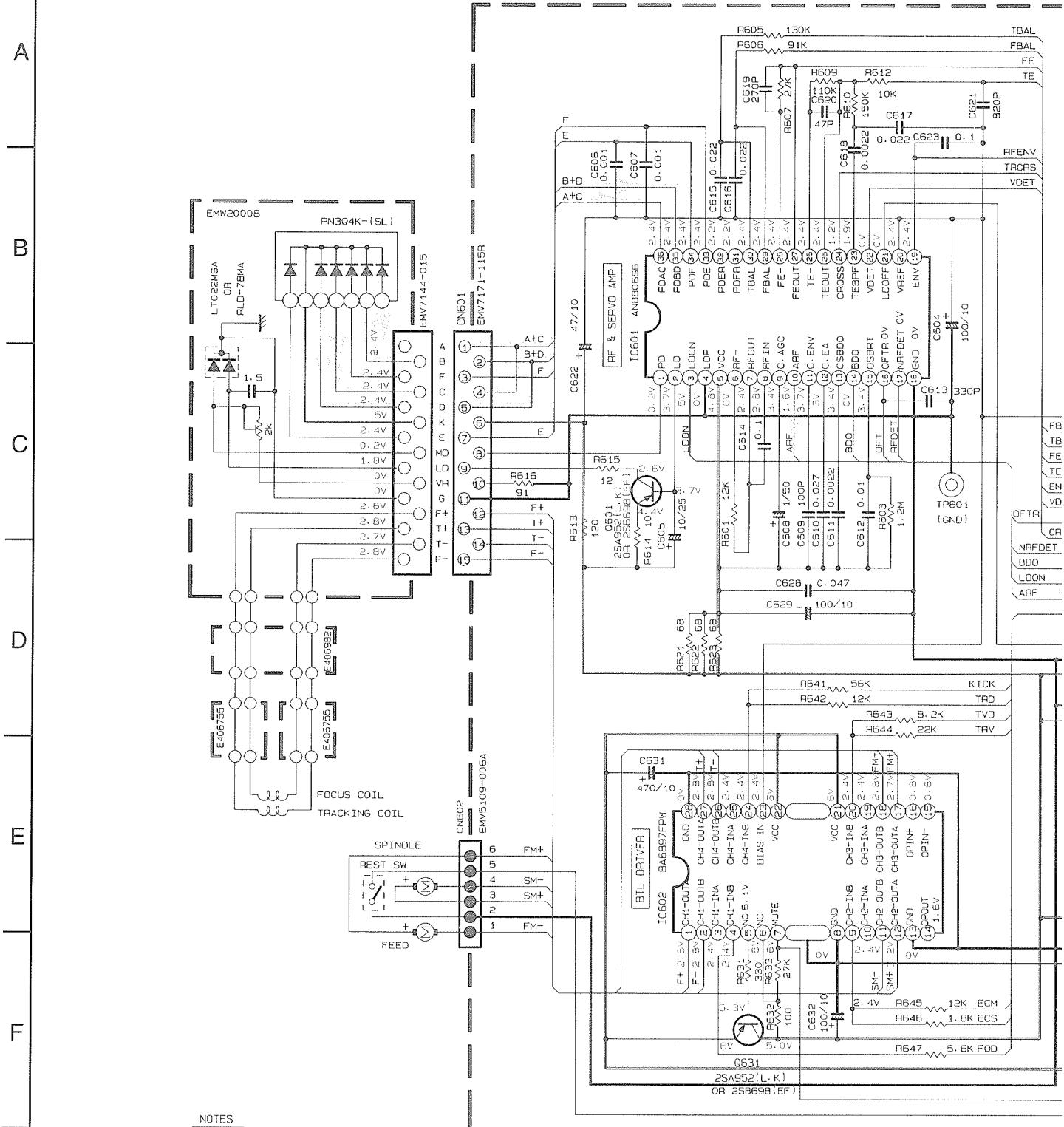
	Q317
	Q103/3/Q203
	Q319 Q103/1/Q211/Q320

Tape/PB Signal
REC Signal

+B Line

1 2 3 4 5

■ CD Servo Control Circuit : Drawing No.FMDH9002-001CW



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/6W 5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
3. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN F (P=PF).
4. ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (PF)/RATED VOLTAGE (V).

Note : FMDH9002001CW(/s/g/)

CD Digital signal

CD Analogue signal

+B Line

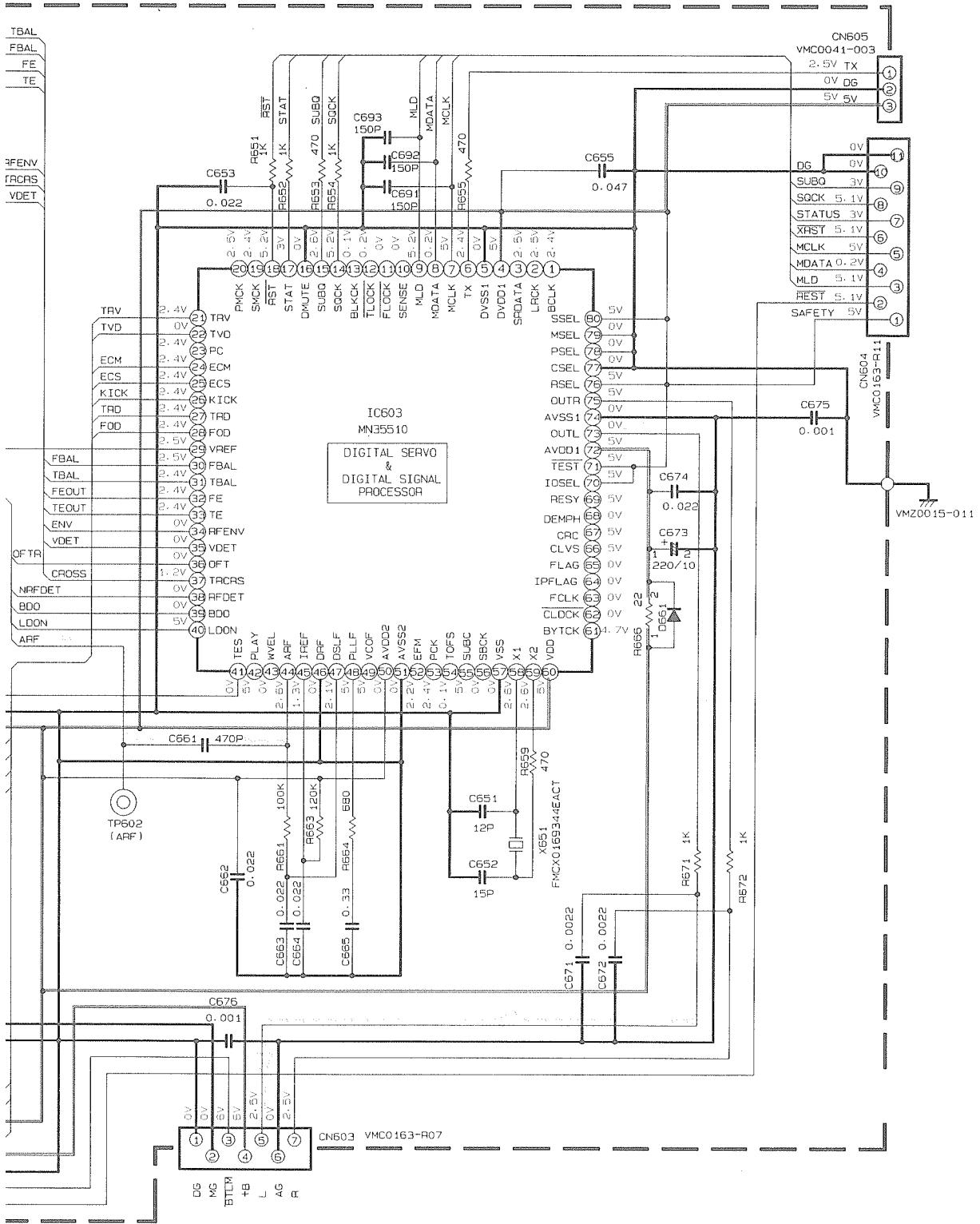
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■ Tuner Circuit : Drawing No.FMDH9002-005TW (B/E/EN/G Version)

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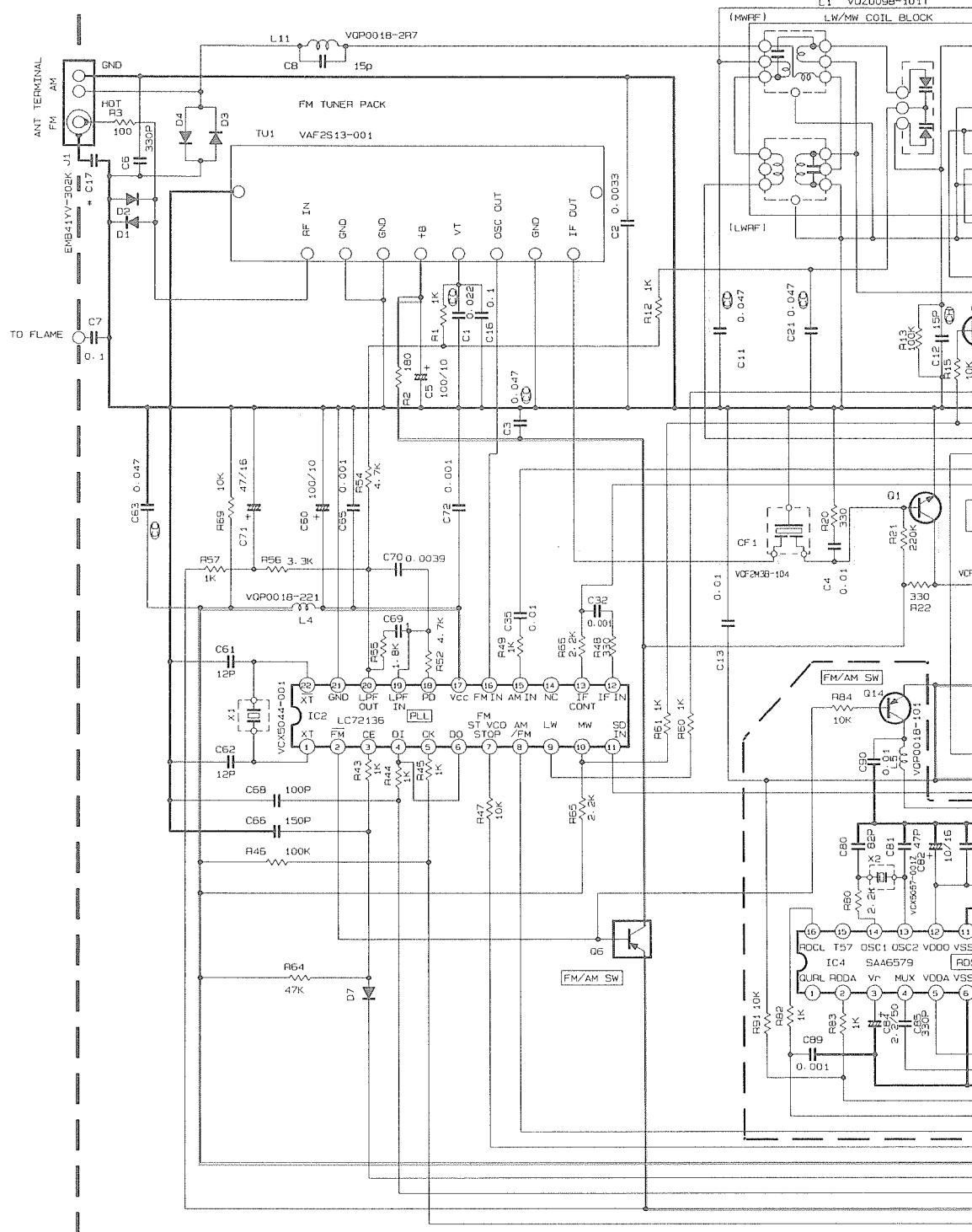
B

C

D

E

F



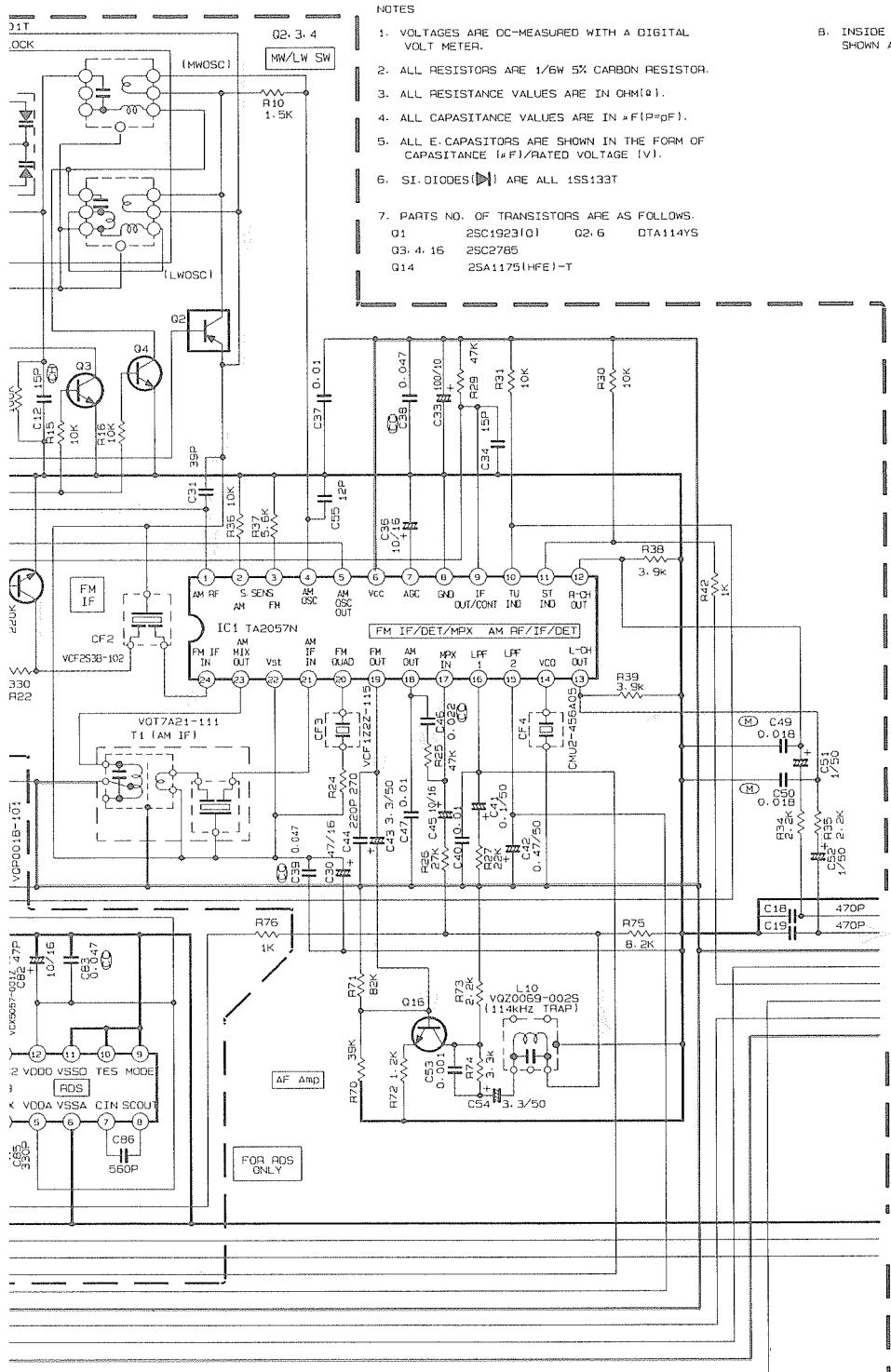
* MARK

MODEL	CA-D301T CA-D351TR	CA-D401T CA-D451TR	CA-D501T CA-D551TR
C17	0.01	0.001	0.001

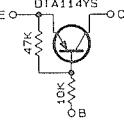
Tr. NO.	
PIN NO.	
FM 87.5MHz NO.	
AM 52kHz NO.	
Tr. NO.	
PIN NO.	
AM 523kHz NO.	
AM 144kHz NO.	

CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FM NO SIGNAL	2.0	6.5	0	2.0	5.2	5.2	0	0	0.2	5.2	5.2	1.0	1.0	4.6	3.8	3.8	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0	
FM 60dB STEREO	2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.2	0	0	1.0	1.0	4.5	4.1	3.9	1.4	0	1.2	1.1	2.0	2.0	5.2	2.0	
AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.2	0	0	0.2	5.2	5.2	1.0	1.0	4.8	2.2	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0	
IC2 FM NO SIGNAL	2.7	0	0	4.9	4.8	4.9	3.8	3.8	2.0	4.1	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7			

Note : FMDH9002005TW(s/g)



B. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



TUNER GND
TUNER A
TUNER L
TUNER H
DATA
MPX
CLOCK
PERIOD
Vt/FMFB

D. GND
ROS-DATA
ROS-CK

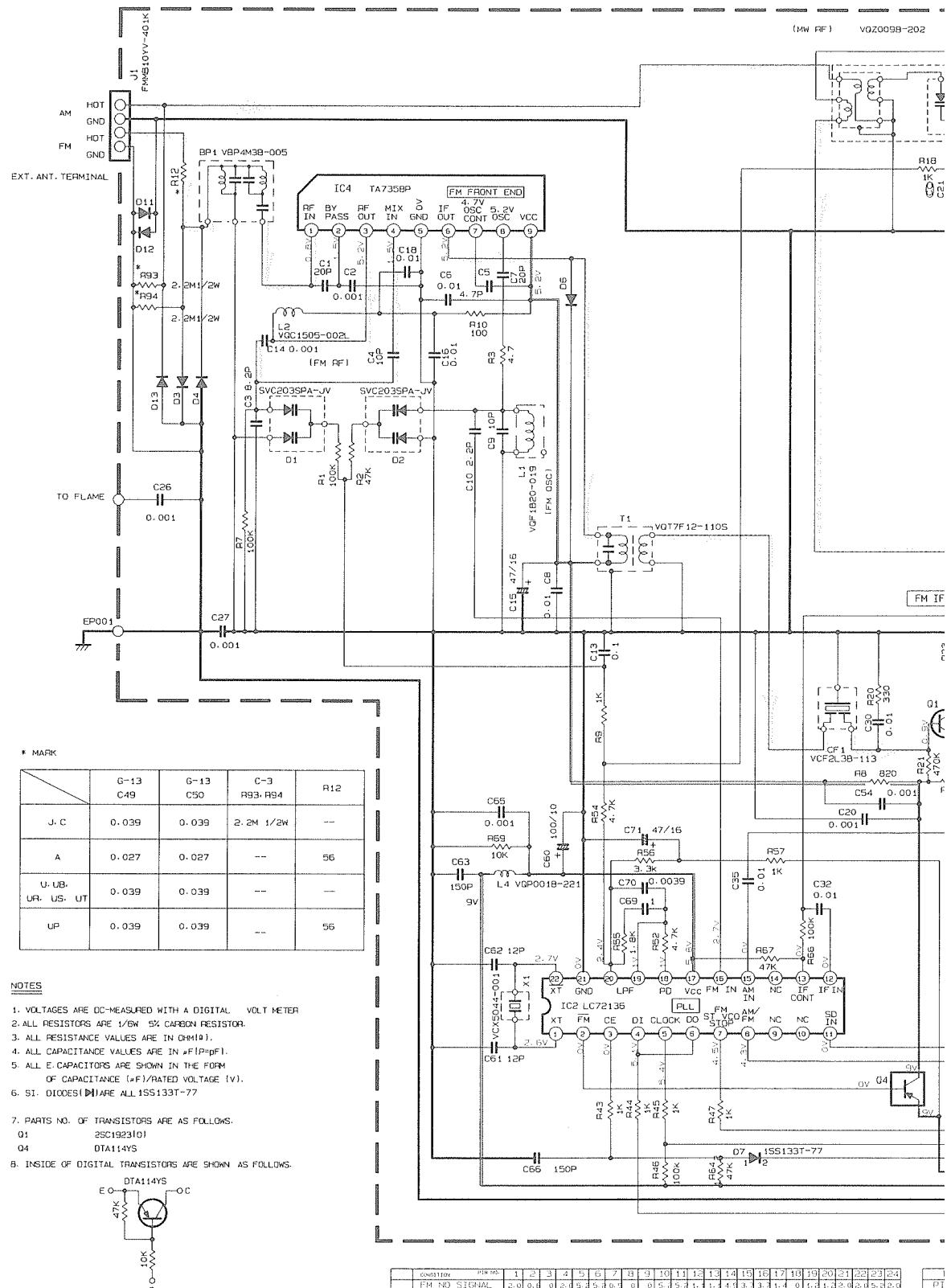
Tr. No.	Q1			Q5			Q16		
PIN NO.	E	C	B	E	C	B	E	C	B
1 87.5MHz NO SIGNAL	0	0.3	0.8	9.8	9.7	0	1.0	3.5	1.6
1 52.2kHz NO SIGNAL	0	0	0	9.8	0	9.7	1.0	3.5	1.6
Tr. No.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
1 52.3kHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
1 144kHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

FM Radio Signal
MW Radio Signal
LW Radio Signal

+B Line

1 2 3 4 5

Tuner Circuit : Drawing No.FMDH9002-006TW (A/C/J/U/UB/UP/US/UT Version)



Note : FMDH9002006TW(/s/g)

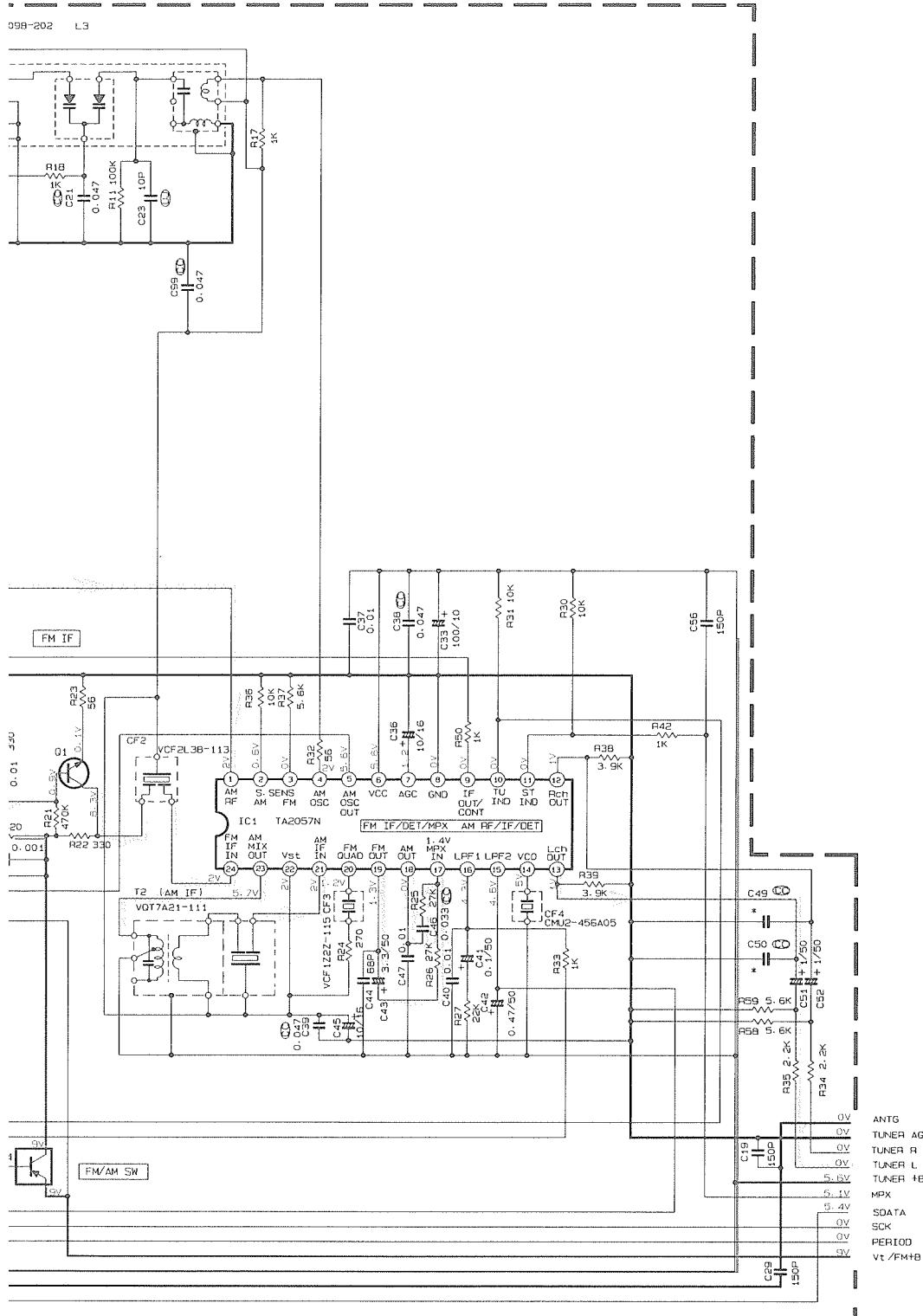
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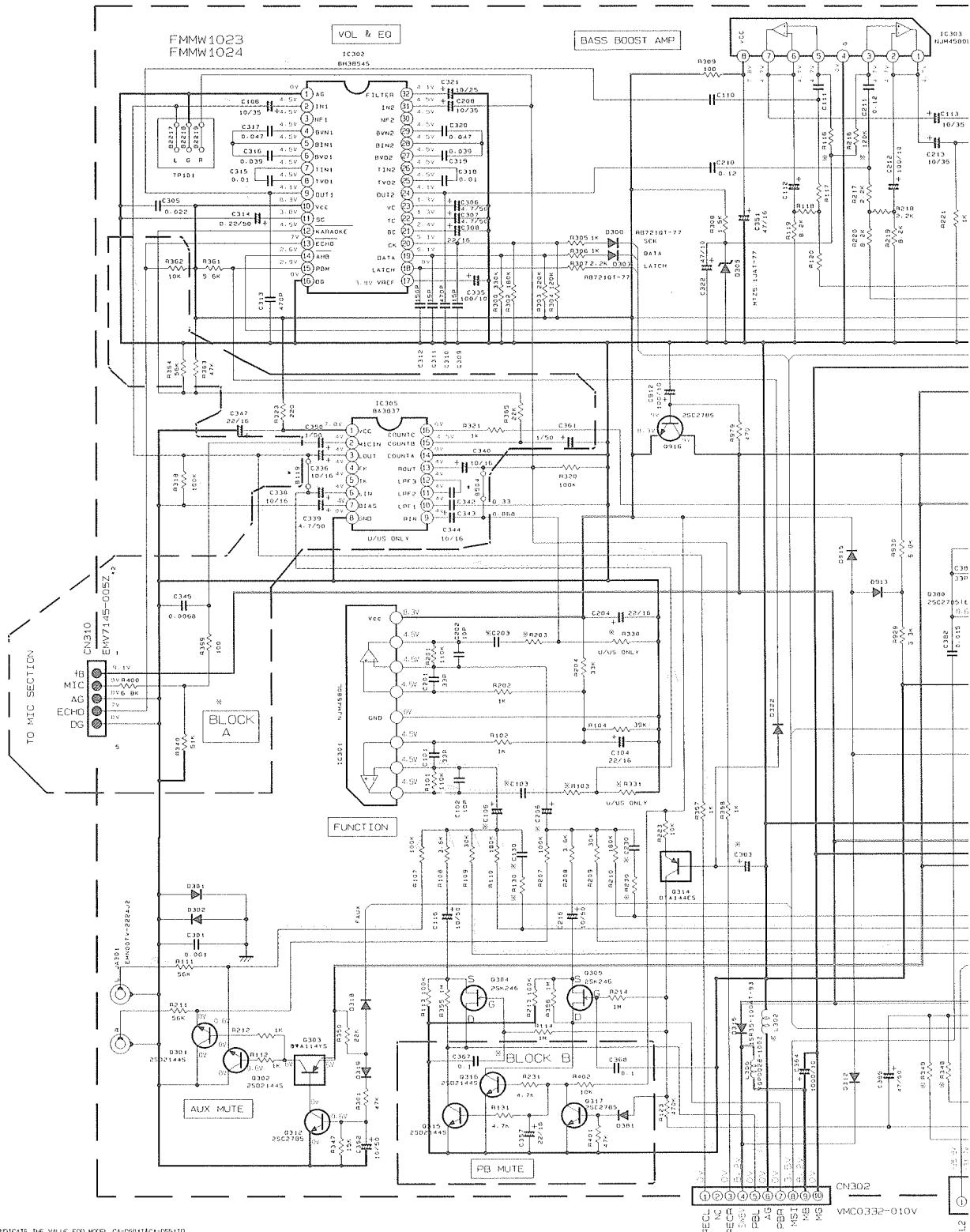
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Pin No.	Q1	Q4
2-3	E C	E C
2-3	0 9 16 3 0 4 9 3 0 5	
2-3	FM 76.0MHz	
2-3	AM 931KHZ	

1 2 3 4 5

■ Function & Bass Boost Amplifier / Regulator Circuit : Drawing No.FMDH9003-006AV (1/3)

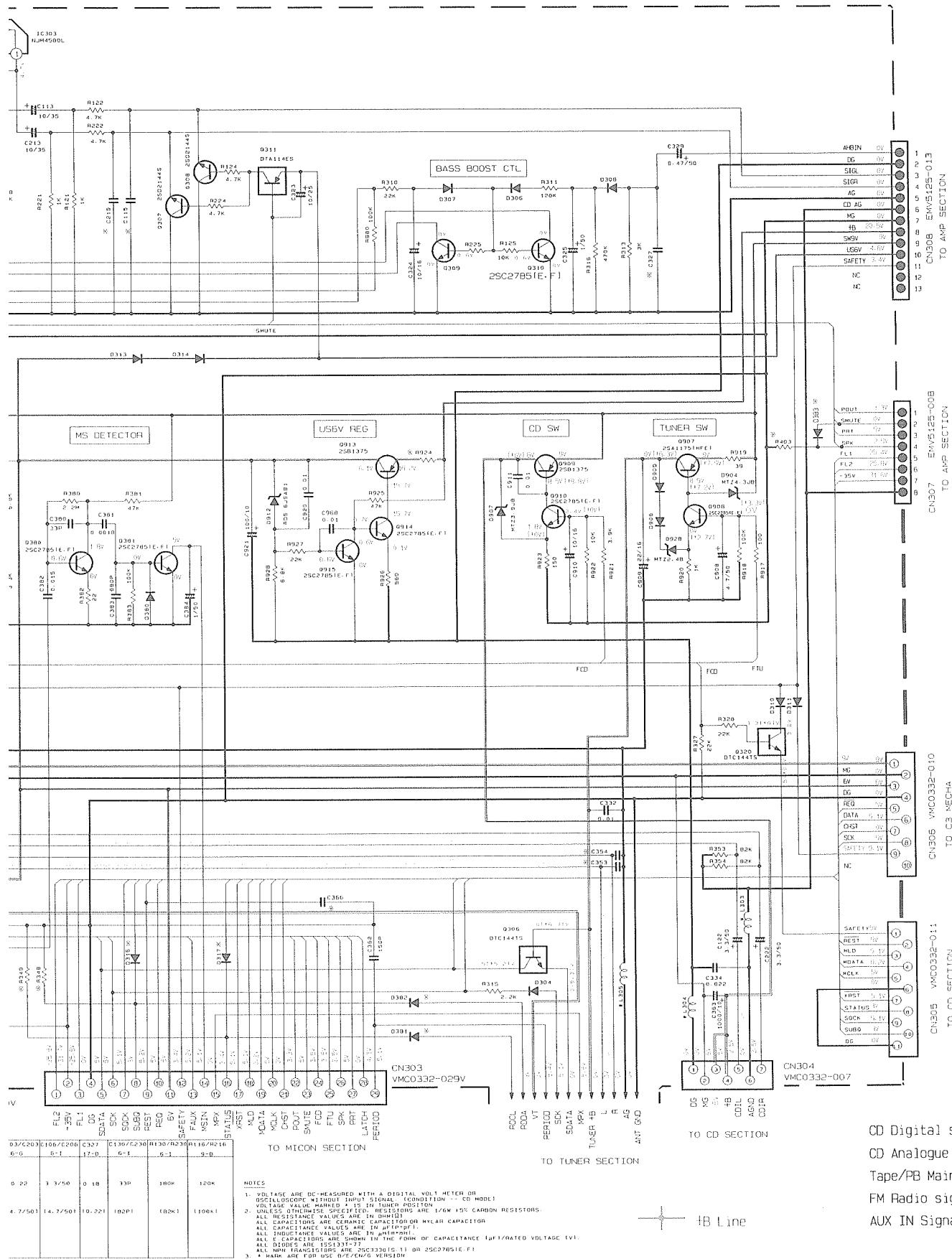


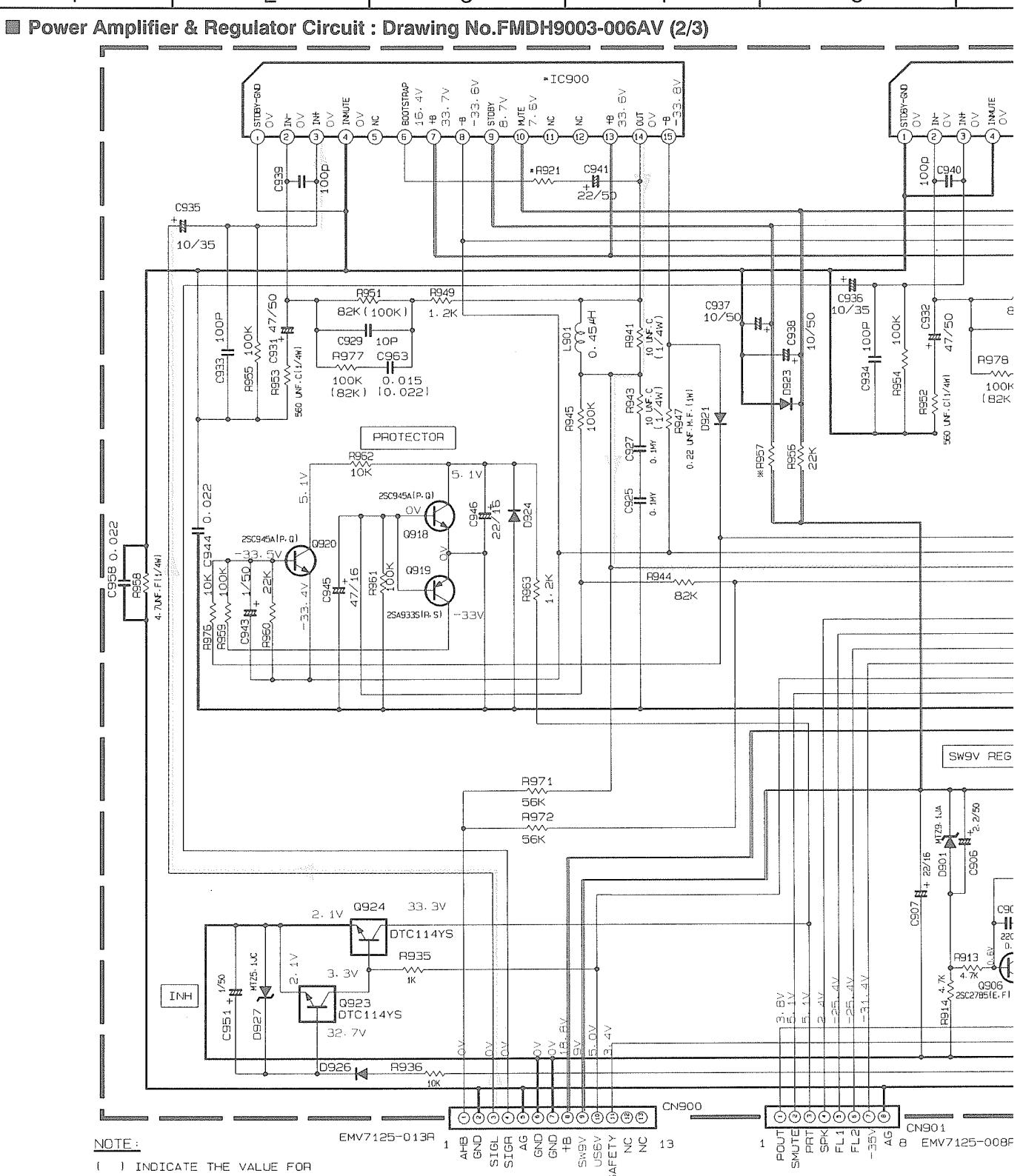
1) INDICATE THE VALUE FOR MODEL CA-D501T/CA-D551TR

MARK

MODEL	LDC VER	L302 9-H	L303/L304 10-H/11-L	L305 11-G	60KX 4/65X 9	B119/B504 12-X	B316/B317 19-F	B303 14-L	B304/B302 14-L	C360 13-L	C303 11-C	C353/C354 17-L	R349 10-L	R403 10-L	R324 14-L	R130/R433 7-6	R103/R4203 6-H	R348 10-L	C103/C203 6-0	C106/7 6-1
	J.C.	0103	B105/B105	B107	--	USE	B103/B104	--	--	150pF	2.2/50	--	470pF	--	--	8153	--	100	--	
CA-D4011	U-UN-UP UR-UR-UT	0103	B106/B105	B107	--	USE	B103/B104	--	--	150pF	2.2/50	--	470pF	--	--	560	22 F. RES 11/4W	5.6K	22K	--
(ICA-D501T)	B-E-ENG	V020040-009	V020040-009	V020040-009	--	USE	B103/B104	--	--	150pF	2.2/50	--	470pF	--	--	22 F. RES 11/4W	--	100	--	14.7/501
	A	0103	B106/B105	B107	--	USE	B103/B104	--	--	150pF	2.2/50	--	470pF	--	--	22 F. RES 11/4W	--	100	--	14.7/501
	VX	0103	B106/B105	V020040-009	--	USE	B103/B104	--	--	150pF	2.2/50	--	470pF	--	--	22 F. RES 11/4W	--	100	--	4.7x
MX-D501T (ICA-D551TR)	B-E-ENG	V020040-009	V020040-009	V020040-009	--	USE	8872101-77	--	8872101-77	--	2.2/50	330pF	--	10K	--	22 F. RES 11/4W	--	100	--	4.7x

Note : FMDH9003006AV (s/g) .003





NOTE :

() INDICATE THE VALUE FOR
MODEL CA-D501T AND CA-D551TR

EMV7125-013A

TO MAIN BOARD

TO MAIN BOARD

*MARK

VERSION	C947/948/949/950 18-B	C971/C972 18-B	D908/909/910/911 18-H	IC900/901 6-B/13-B	L971/972 17-B	R921/922 6-C/13-C	R957 9-E	R964/965 17-D	R982 12-H	R973/R974 19-B
B-E-EN-G	0.022	0.0027	1N5401TM	TDA7295	VQZ0104-003	B125/126	1K	680	8120	4.7
U-UB-UP-UR US-UT-A-VX	--	--	1N5401TM	TDA7295	--	B125/126	1K	680	B120	--
J-C	--	--	10E2-FD	TDA7294	--	2.2K	10K	680 F-RES {1/4W}	22 F-RES {1/4W}	--

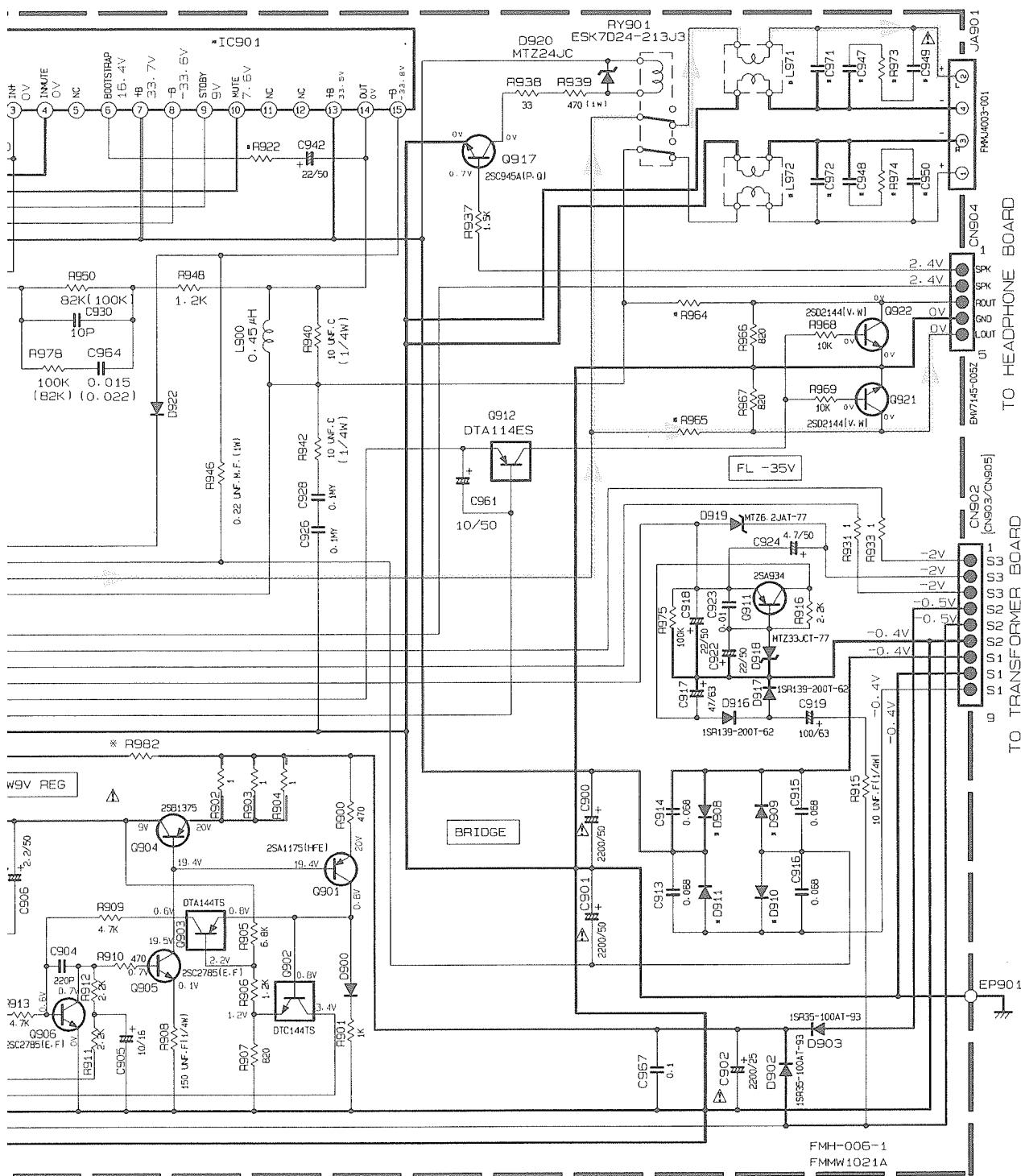
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125-008R

NOTES

- VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION.
- UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/8W 1% CARBON RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN F(PF).
- ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(F)/RATED VOLTAGE(V).
ALL DIODES ARE 1SS133T-77 TYPE.
POLYPROPYLENE CAPACITOR
50V ± 5% MYLAR CAPACITOR OR 50V ± 5% THIN FILM CAPACITOR
- THOSE PARTS WITH BRACKET IS NOT USED.
FOR RESISTOR IT WOULD BE A SHORT.
FOR CAPACITOR IT WOULD BE AN OPEN.

Main PB Signal

+B Line

1974	3
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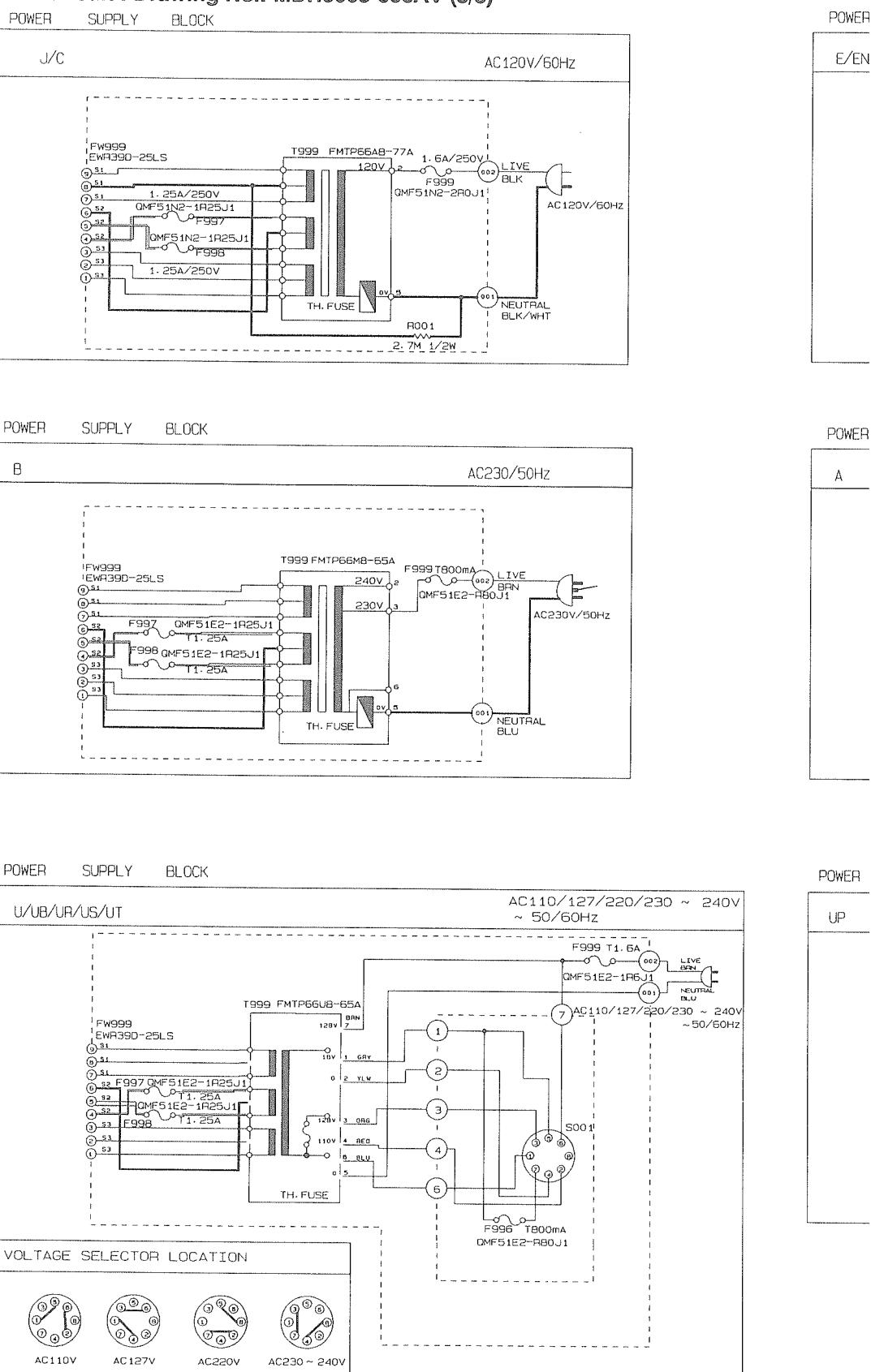
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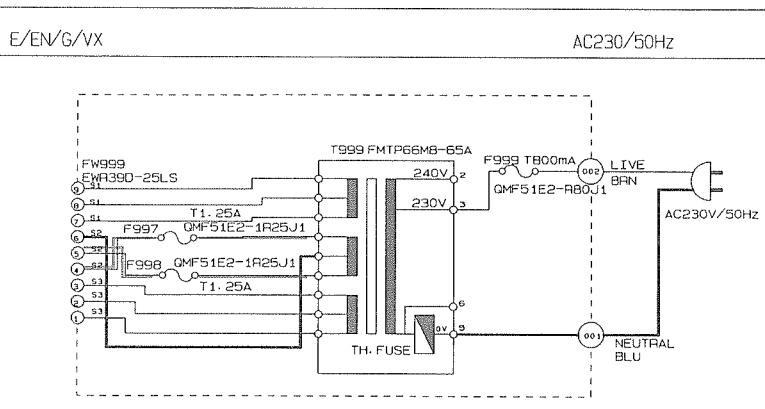
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■ Power Transformer Circuit : Drawing No.FMDH9003-006AV (3/3)

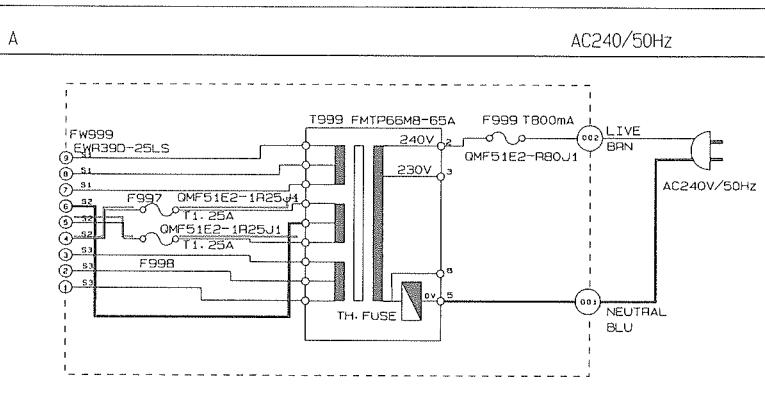


Note : FMDH9003006AV1/s/g)

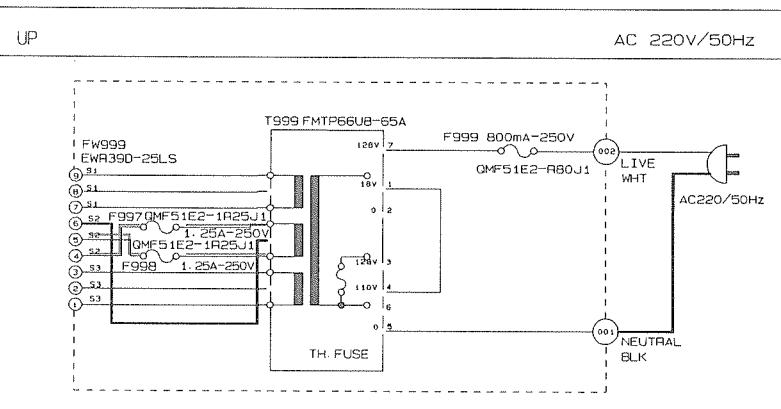
POWER SUPPLY BLOCK



POWER SUPPLY BLOCK



POWER SUPPLY BLOCK



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2

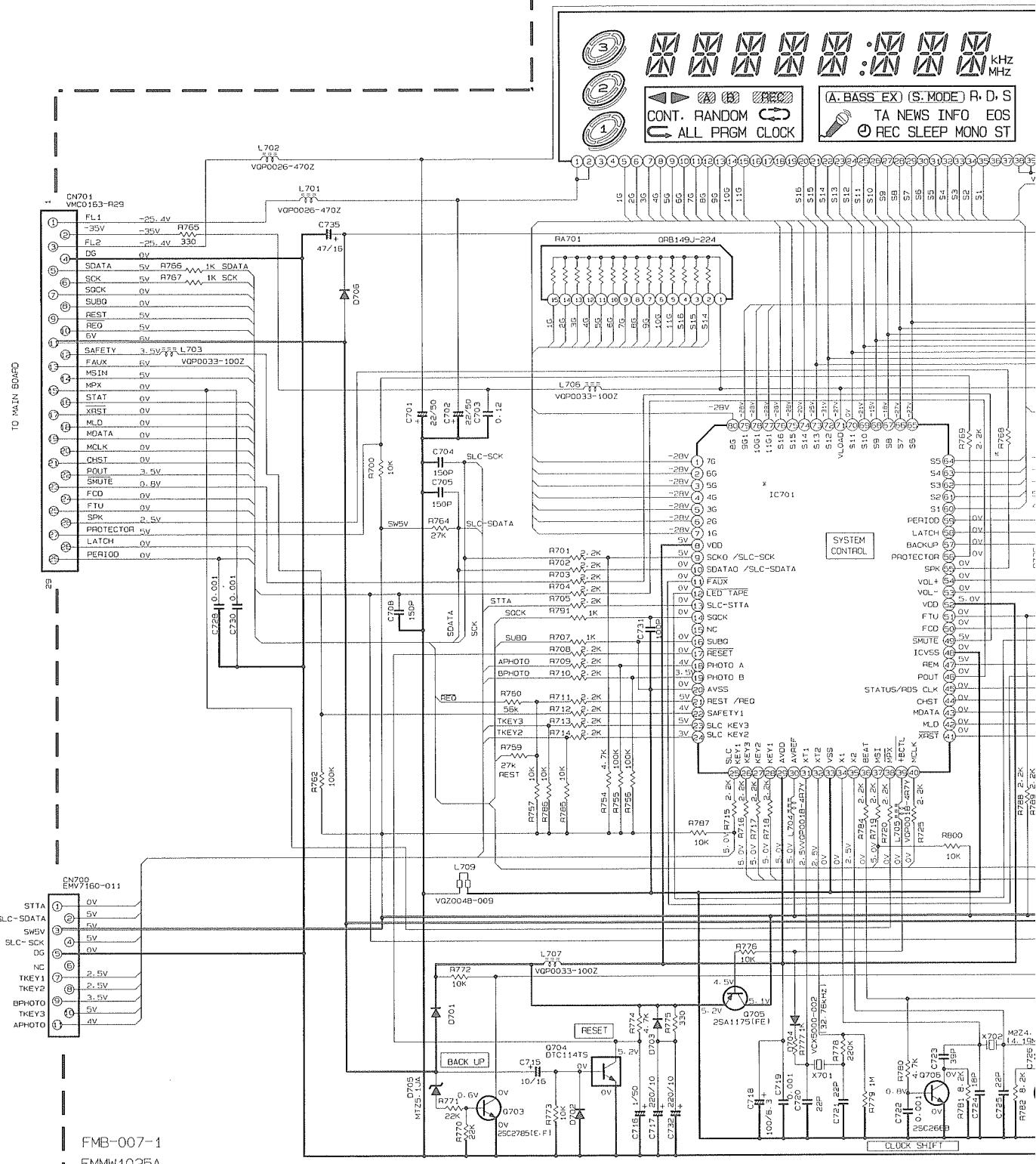
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■ System CPU & Operation Switch Circuit : Drawing No.FMDH9002-006SV

FL701 QLF0021-001

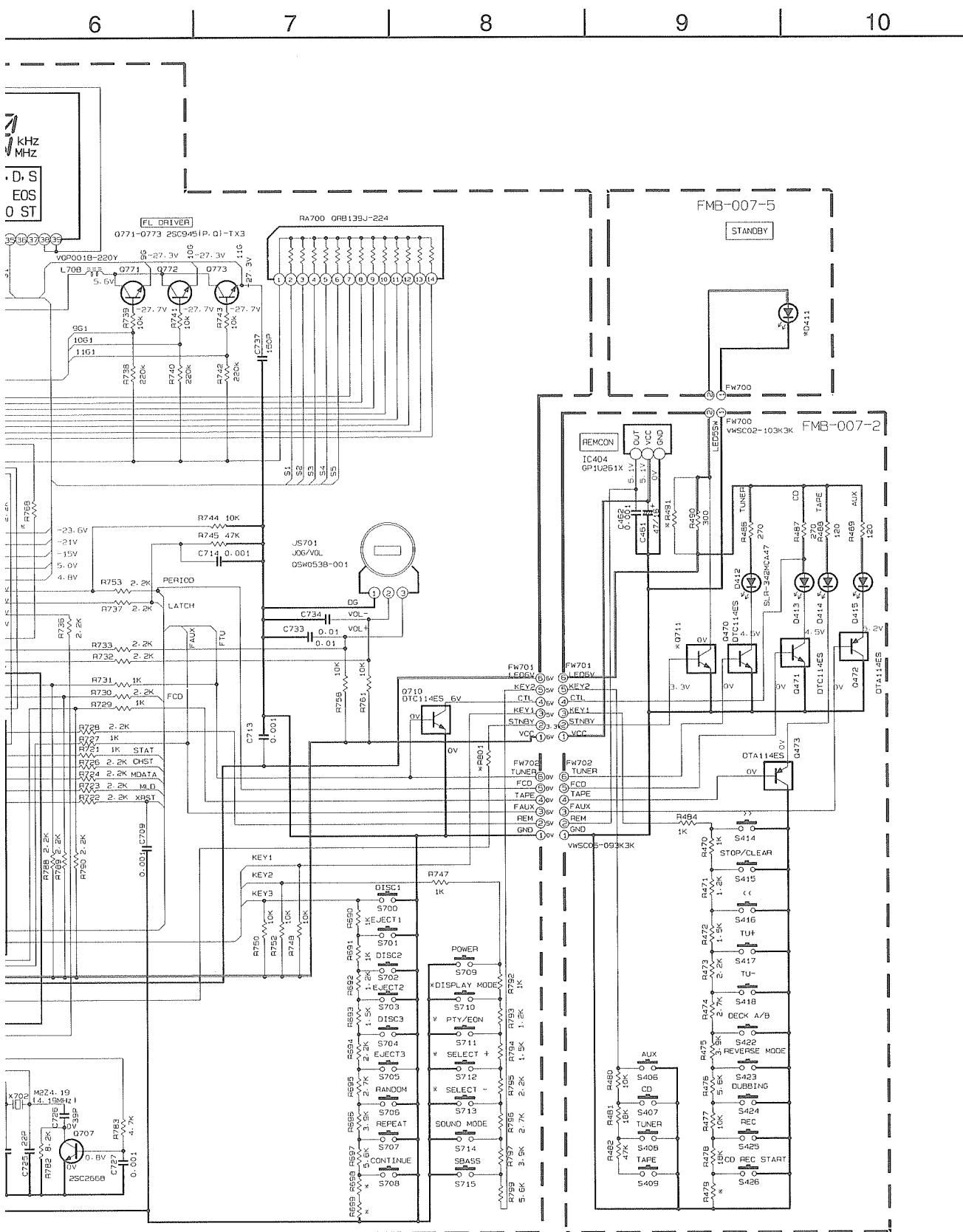


MODEL	VERSIONS	R479 19-M	R698 15-L	R699 13-M	S710/711/712/713	R491 18-F	R801 16-H	D411 19-C	Q711 18-G	R769 11-F
CA-D301T	J. C	47K	--	--	--	--	B134	SLA-3B0LT-TB	DTC-114ES	2.2K
	U. UB. UP. US. UT.	--	--	--	--	300	47K	SLA-3B0LT-TB	2SD2144S	56
CA-D401T	UR	--	--	75K	--	--	300	47K	SLA-3B0LT-TB	2SD2144S
	B. E. EN. G	47K	75K	B129	--	300	47K	SLA-3B0LT-TB	2SD2144S	2.2K
CA-D501T	A	--	B133	10K	--	300	47K	SLA-3B0LT-TB	2SD2144S	2.2K
	VX	--	10K	10K	--	300	47K	SLA-3B0LT-TB	2SD2144S	2.2K
MX-D451TR CA-D551TR	B. E. EN. G	47K	10K	10K	USE	300	47K	SLA-3B0LT-TB	2SD2144S	2.2K

MODEL	IC701 10-F
MX-D301T	UPD78044FGF-067
U. UB. UP. US. UT.	UPD78044FGF-055

NOTES

1. VO
2. UN



NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- TAPE PB MODE
- UNLESS OTHERWISE SPECIFIED
RESISTORS ARE 1/8W 15% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF (μF).
ALL INDUCTANCE VALUES ARE IN nH (nH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE nF/V /RATED VOLTAGE [V].
ALL DIODES ARE 1SS133.

+B Line

1

2

3

4

5

■ CD Traverse Mechanism Control Circuit : Drawing No.FMDH9002-006MW

A

B

C

D

E

F

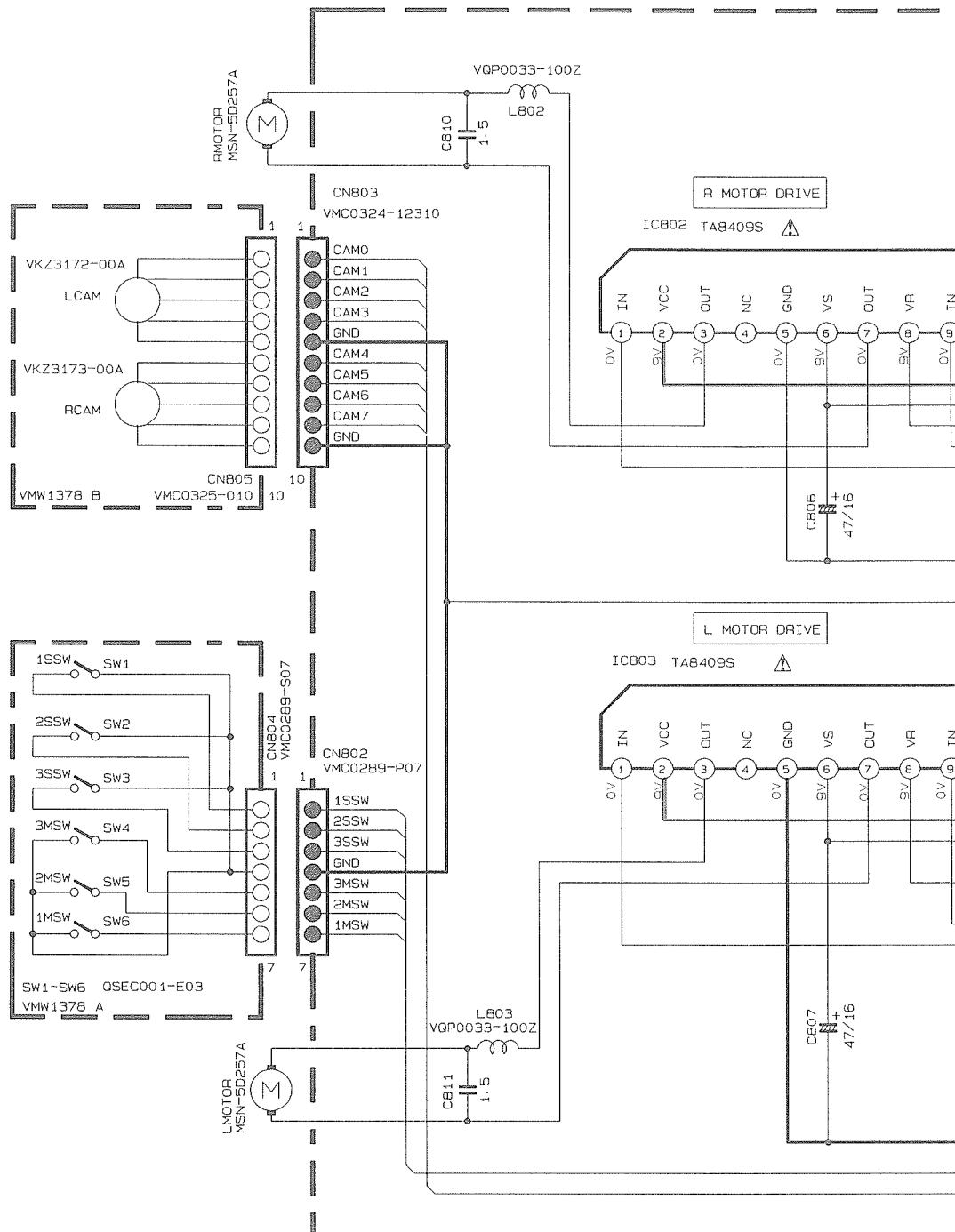


TABLE 1 CAM PATTERN LIST

CAM NO.	LCAM	RCAM	POSITION
0	1 2 3	4 5 6 7	EMERGENCY
MAIN TRAY1	0 1 1 1 0 1 1 1 0	0	TRAY1 STAND-BY
CAMP 1	0 1 0 1 0 1 0 1 0	0	TRAY1 CHECKING
MAIN TRAY2	1 0 0 1 0 1 0 0 1	1	TRAY2 STAND-BY
SUB TRAY2	1 1 1 0 0 0 1 1 1	1	TRAY2 CHECKING
CAMP 2	1 0 1 0 0 0 1 0 0	1	TRAY3 STAND-BY
MAIN TRAY3	1 0 0 0 0 0 0 1 1	1	TRAY3 CHECKING
SUB TRAY3	1 0 0 0 0 0 0 0 0		
OFF	1 1 1 1 0 1 1 1 1	1	OFF

0=OV
1=5V

NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION ---- DISC 1 CD STOP MODE
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR ALL CAPACITANCE VALUES ARE IN μF(P=PF). ALL INDUCTANCE VALUES ARE IN μH(mmh). ALL E.CAPACITORS ARE SHOWN IN THE FORM

Note : FMDH9002006MW(/s/g)

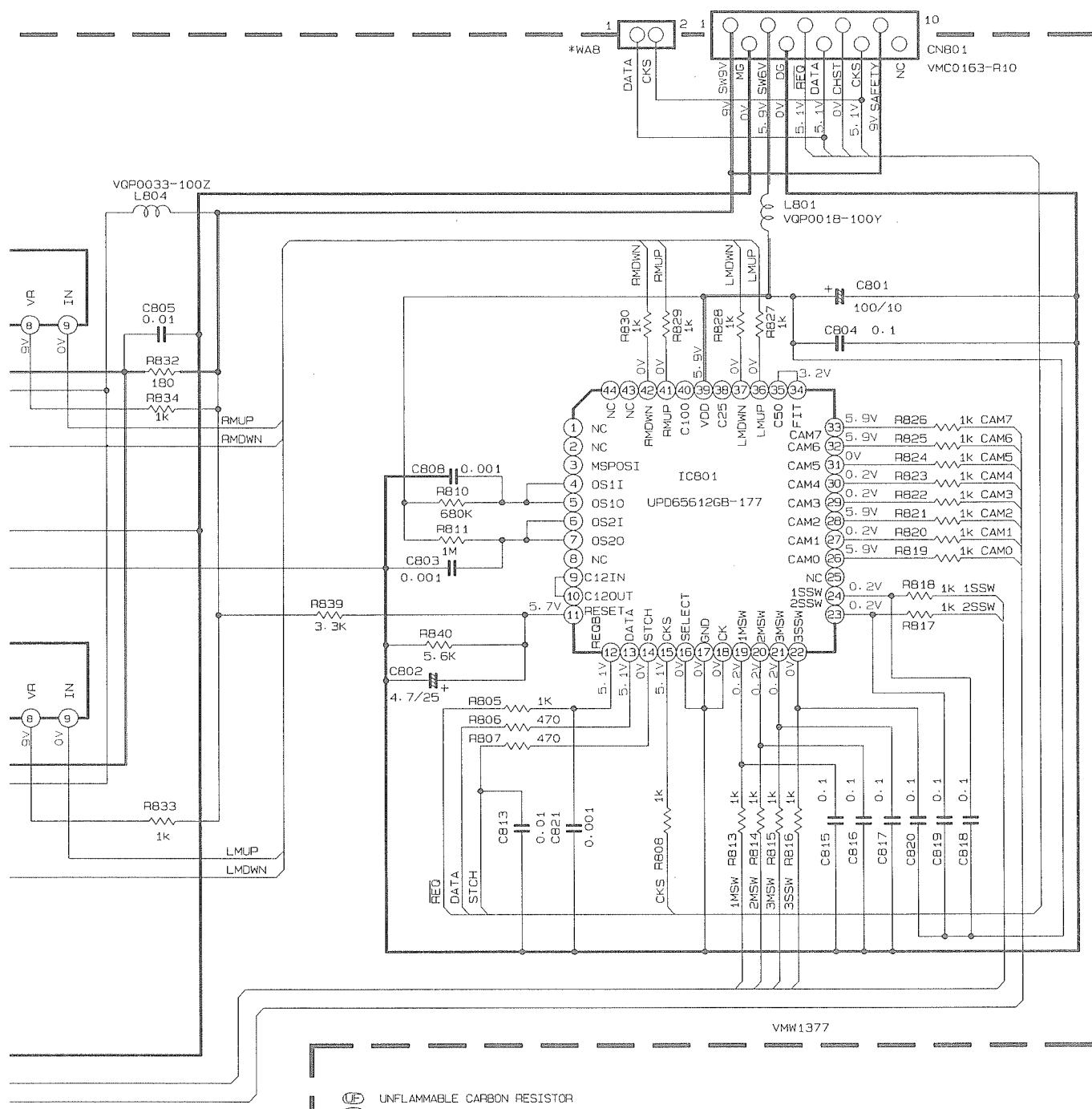
6

7

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10



- UNFLAMMABLE CARBON RESISTOR
- METAL FILM RESISTOR
- OXIDE METAL FILM RESISTOR
- ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
- NON-POLARISED ELECTROLYTIC CAPACITOR
- POLYPROPYLENE CAPACITOR
- POLYSTYROL CAPACITOR

A DIGITAL VOLT METER
GNAL.
IODE

STORS ARE 1/6W ±5% CARBON RESISTOR.
-M(Ω).

ACITOR OR MYLAR CAPACITOR.

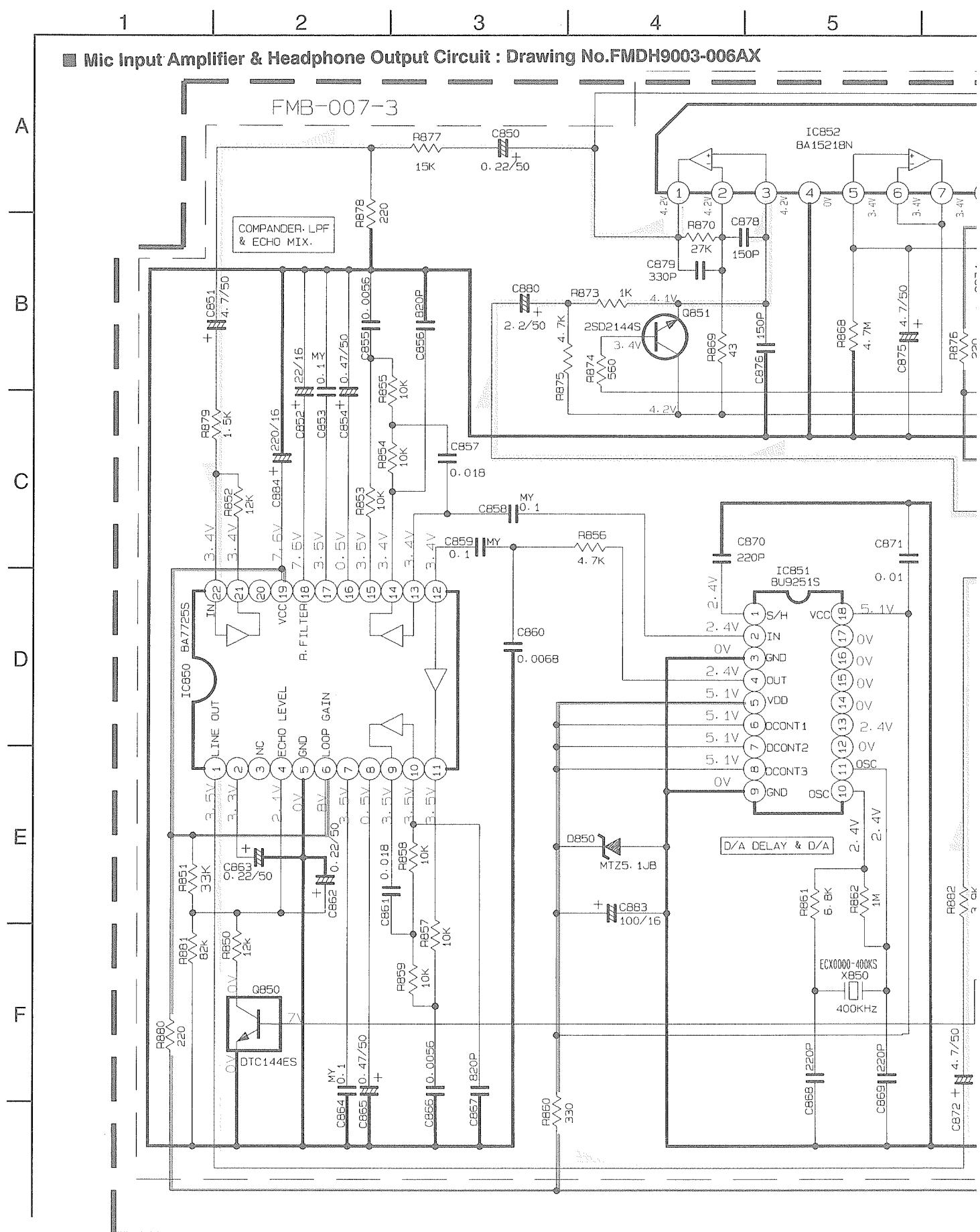
LF(P=PF).

4(m=mH).

THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

+B Line

■ Mic Input Amplifier & Headphone Output Circuit : Drawing No.FMDH9003-006AX



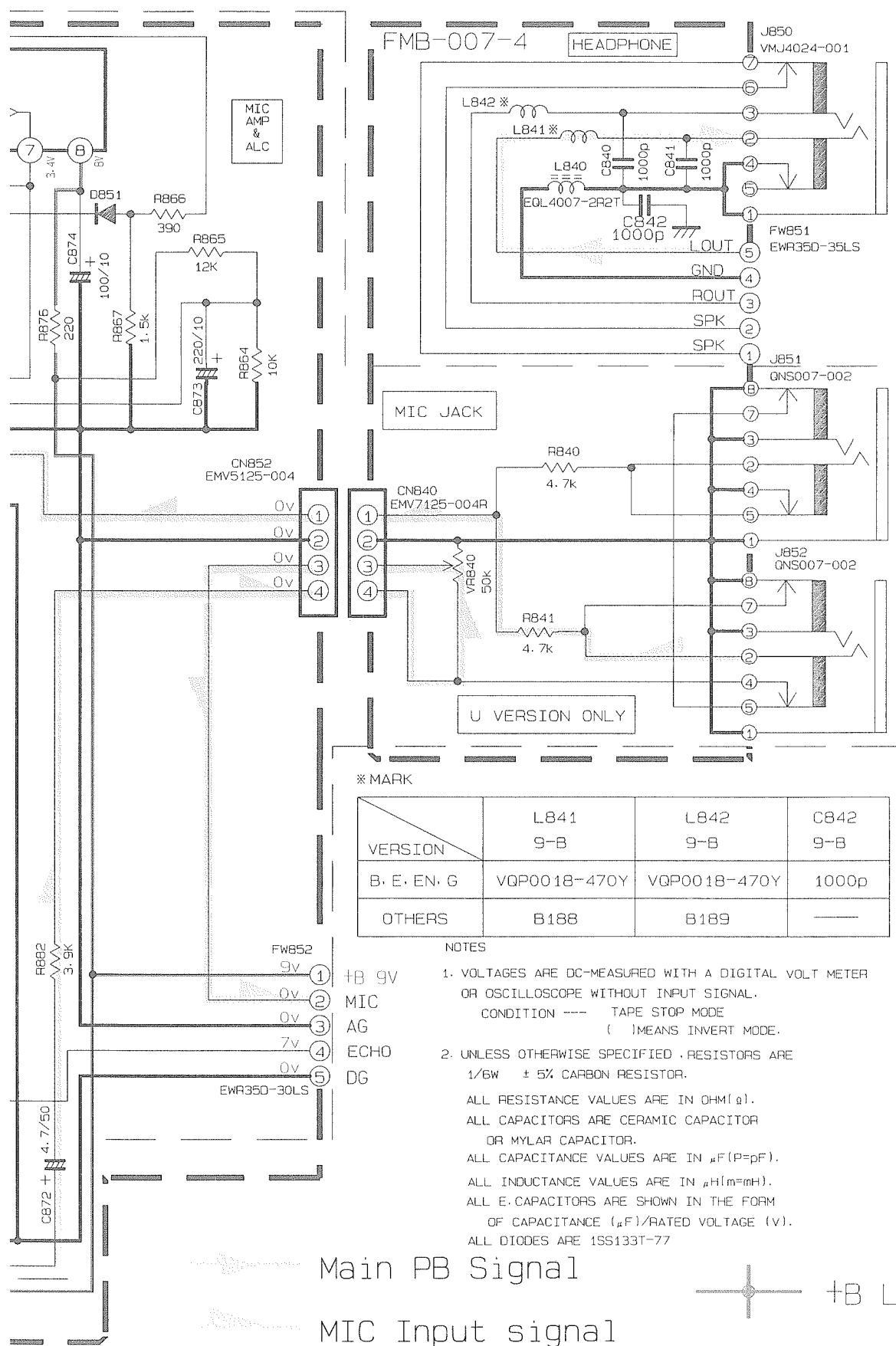
6

7

8

9

10



12.Location of P.C.Board Parts

1 | 2 | 3 | 4 | 5

A

B

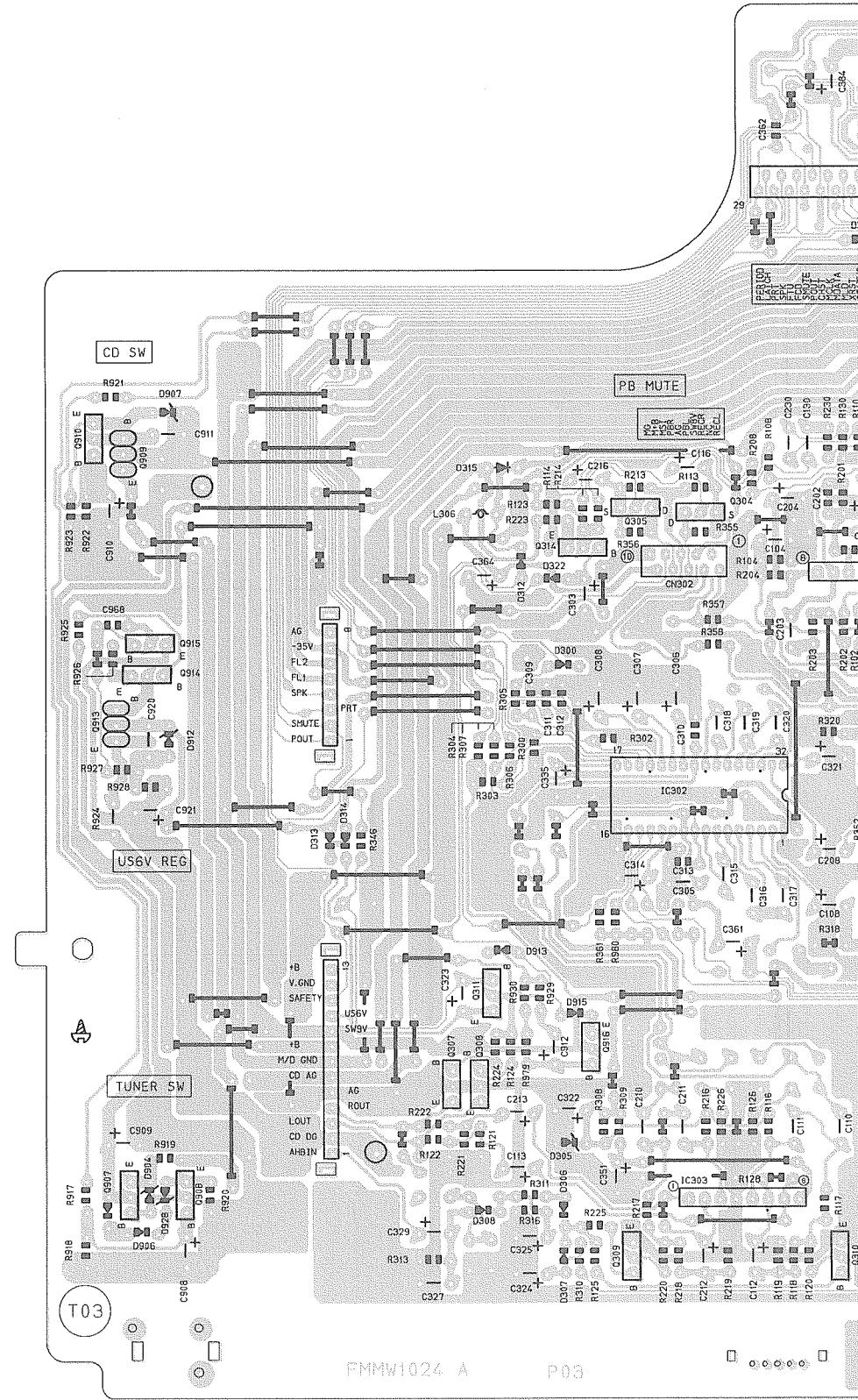
C

D

E

E

Block No. **01** (B/E/EN/G Version)



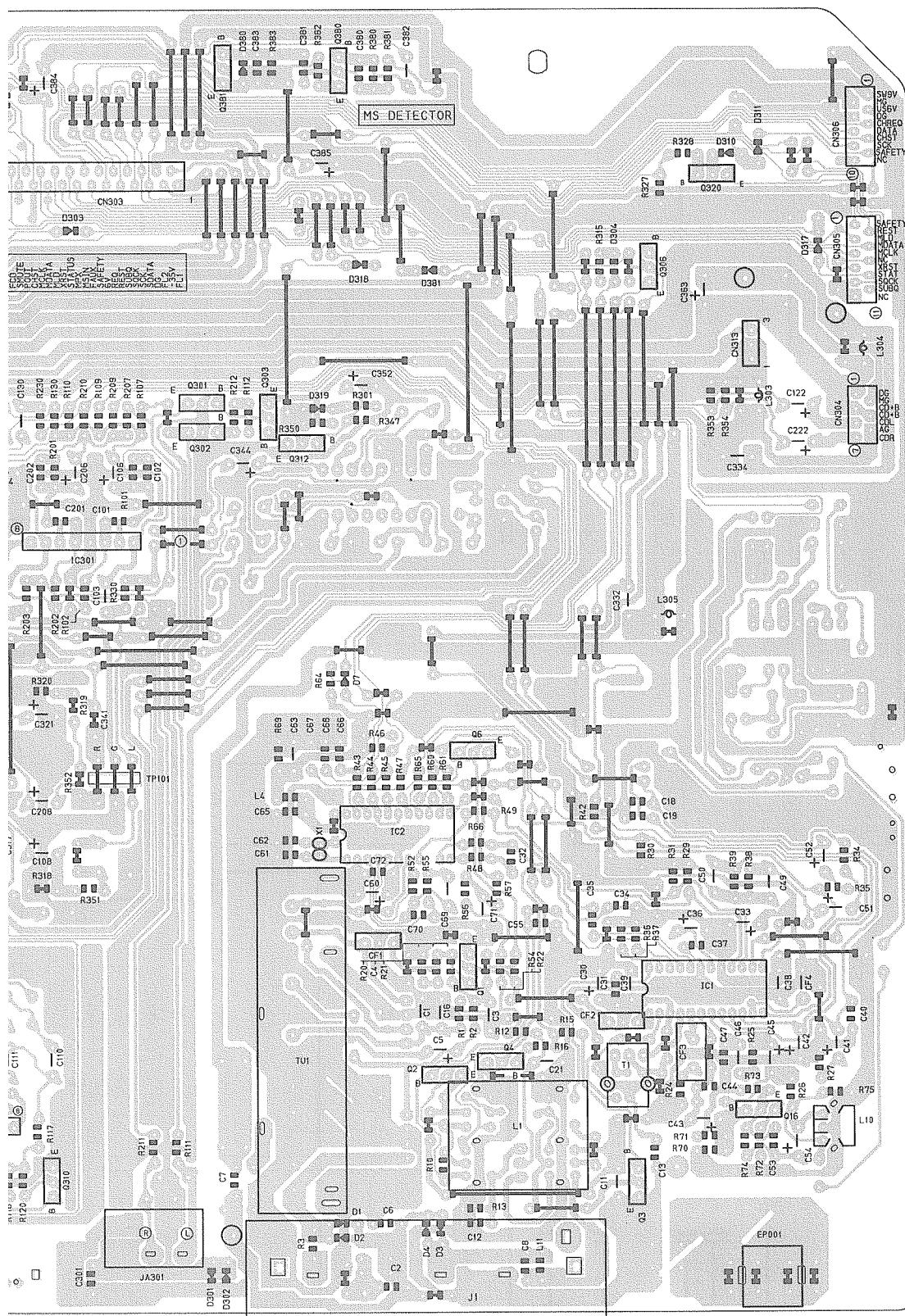


Fig.12-1

1 2 3 4 5

■ Main Amplifier Board : Block No. 01 (U/UB/UP/US/UT Version)

A

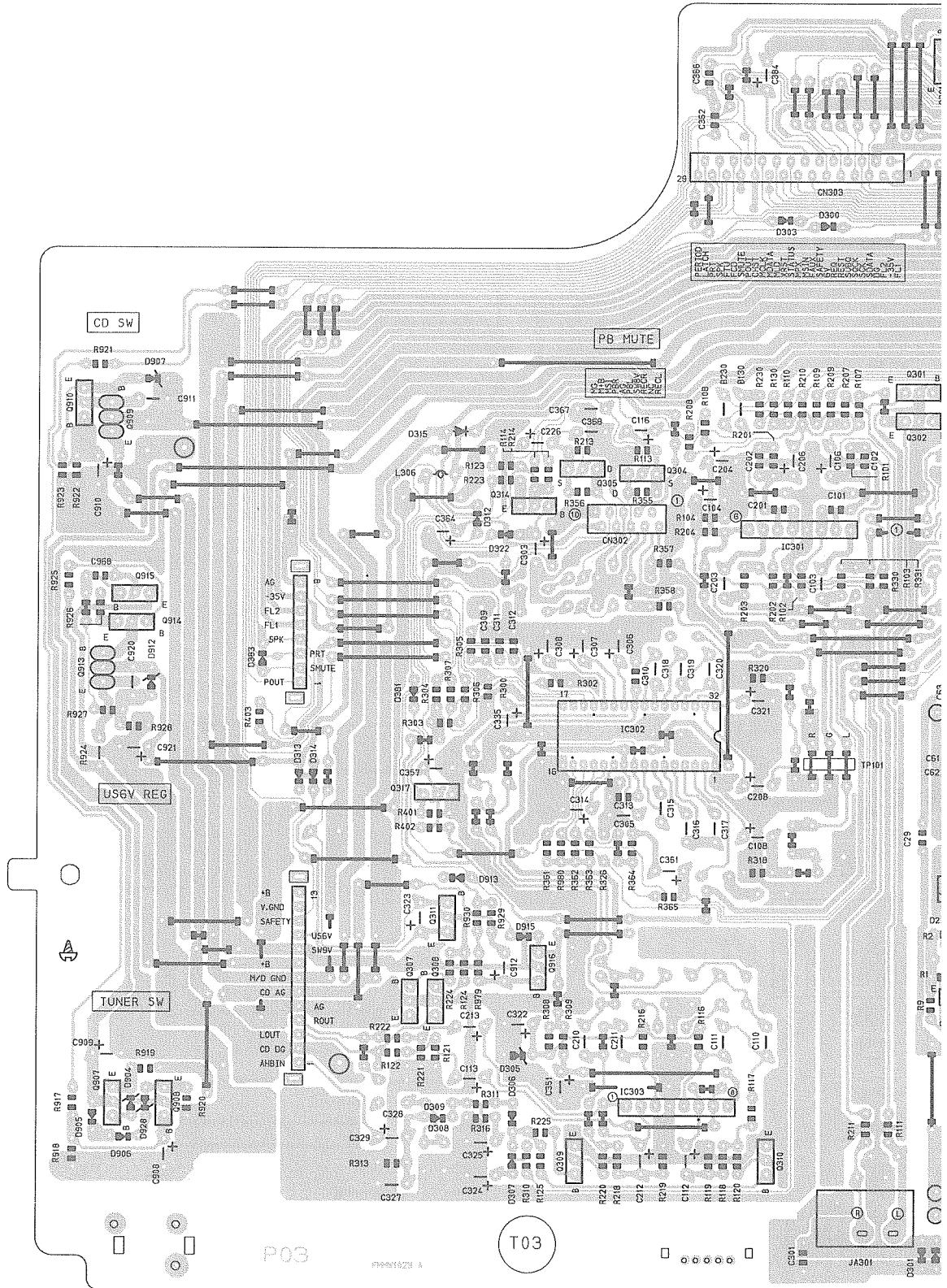
B

C

D

E

F



Fig

6

7

8

9

10

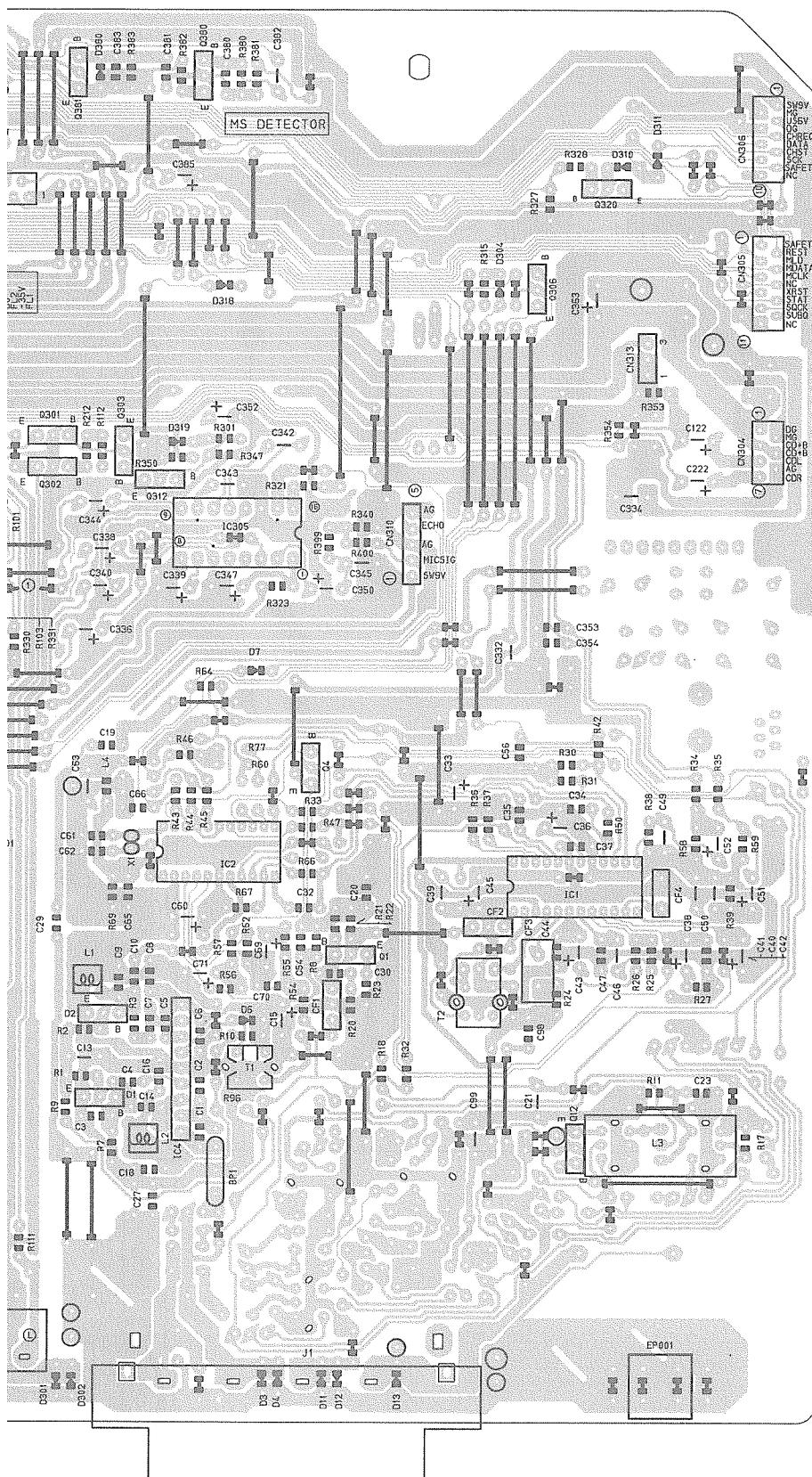


Fig.12-2

1 2 3 4 5

■ Power Supply & Power Amplifier Board : Block No. 02 (B/E/EN/G Version)

A

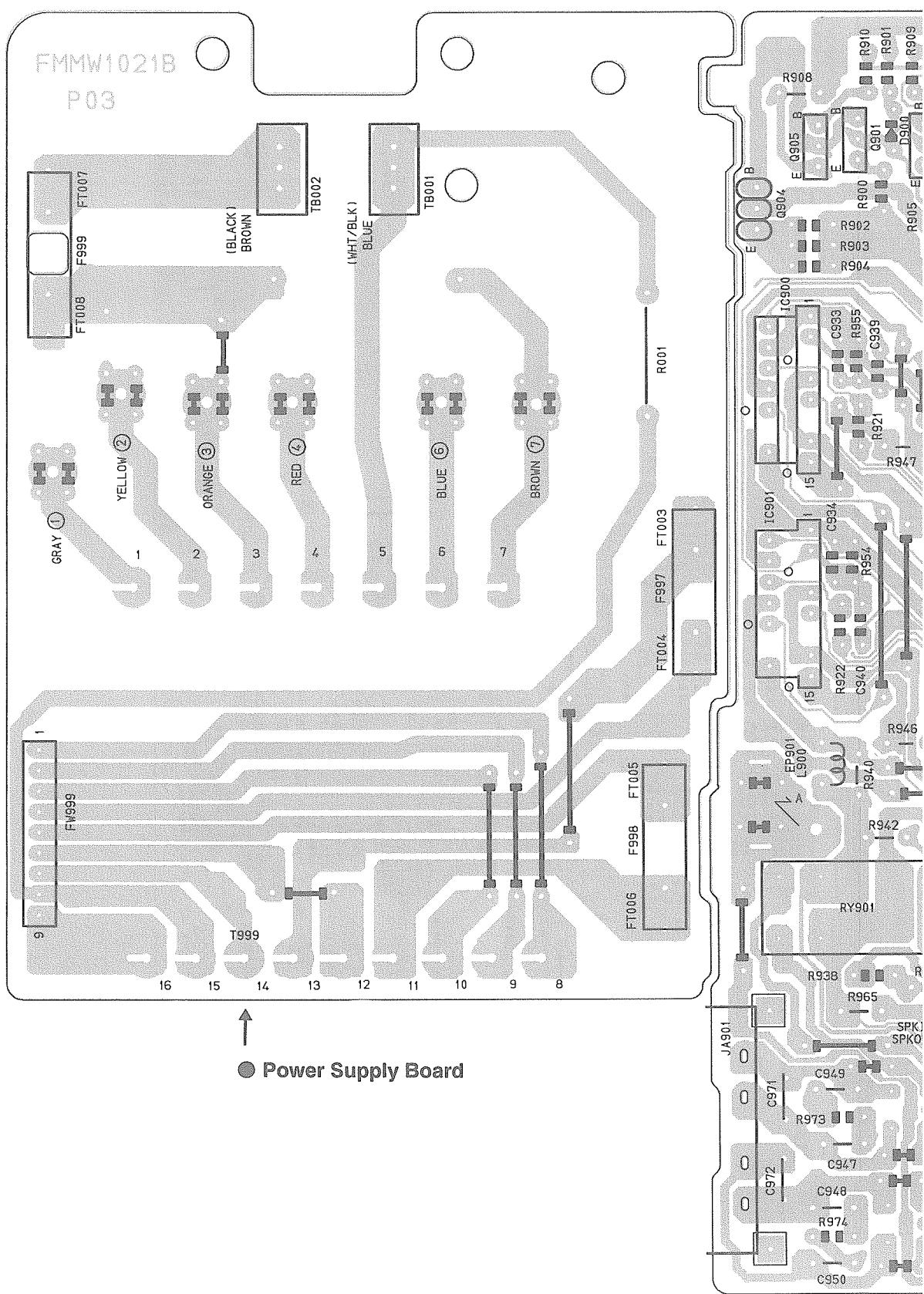
B

C

D

E

F



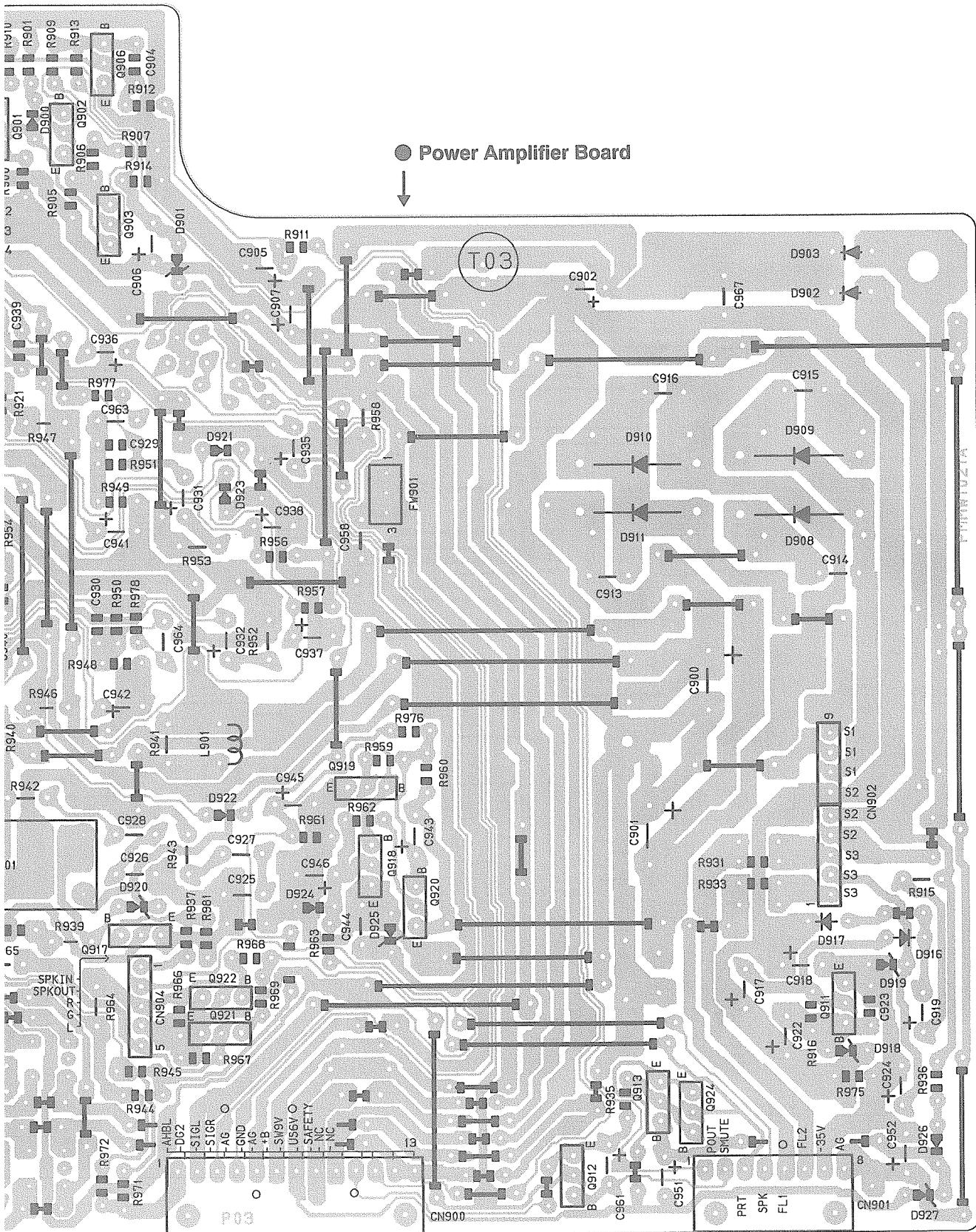


Fig.12-3

1 2 3 4 5

■ Power Supply & Power Amplifier Board : Block No. 02 (U/UB/UP/US/UT Version)

A

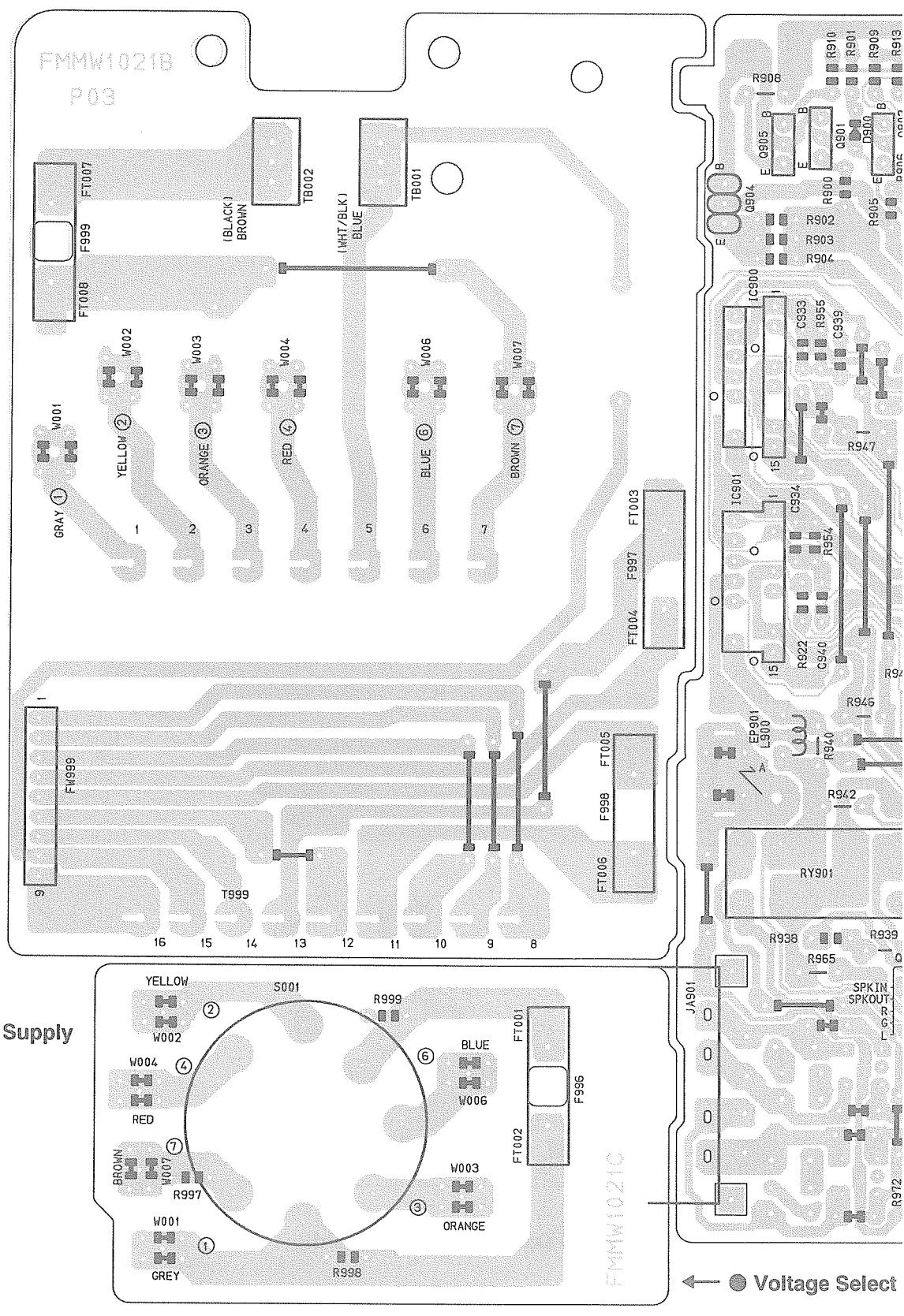
B

C

D

E

F



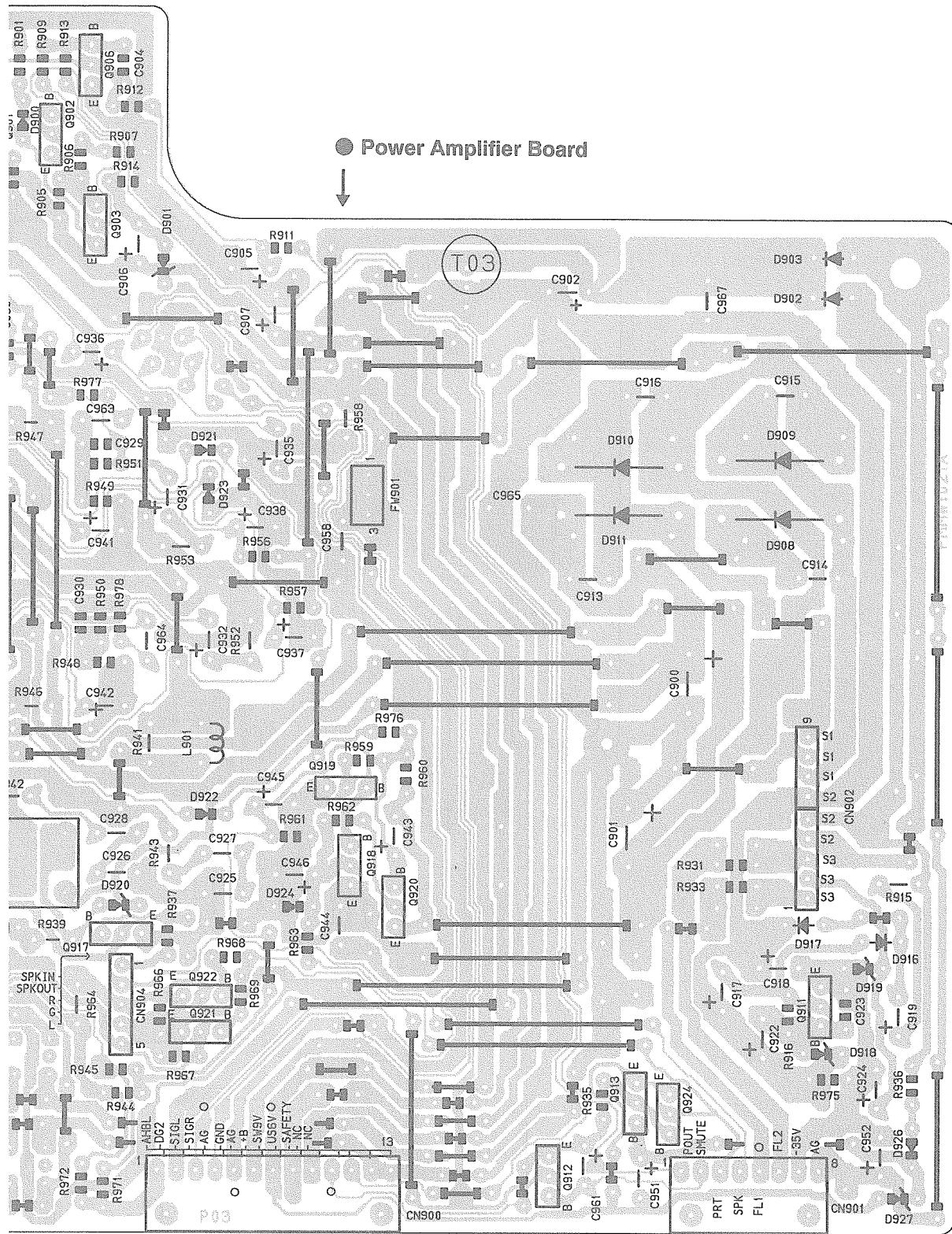
6

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Select Switch Board

Fig.12-4

1

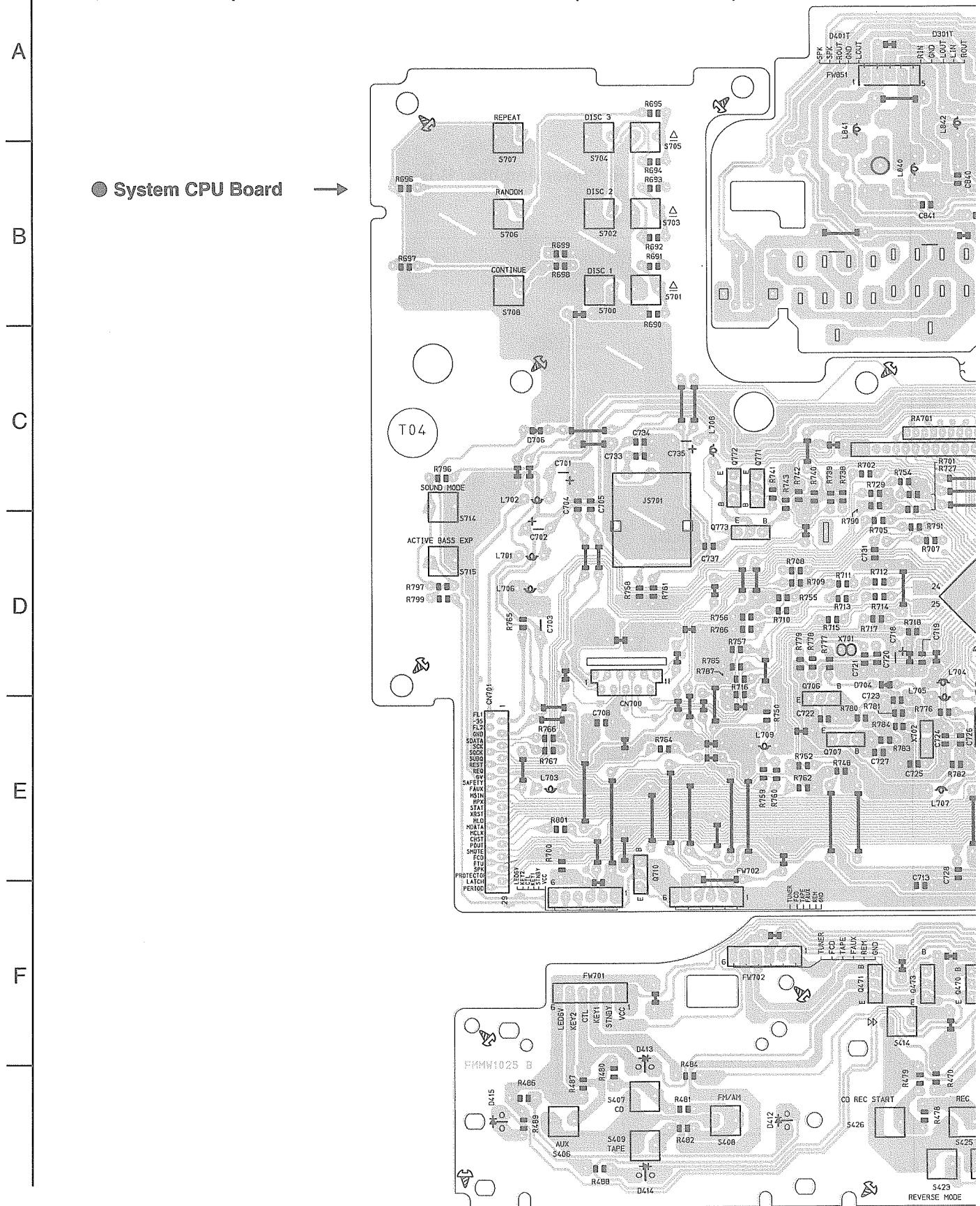
2

3

4

4

■ System CPU & Operation Switch Board : Block No. 03 (B/E/EN/G Version)



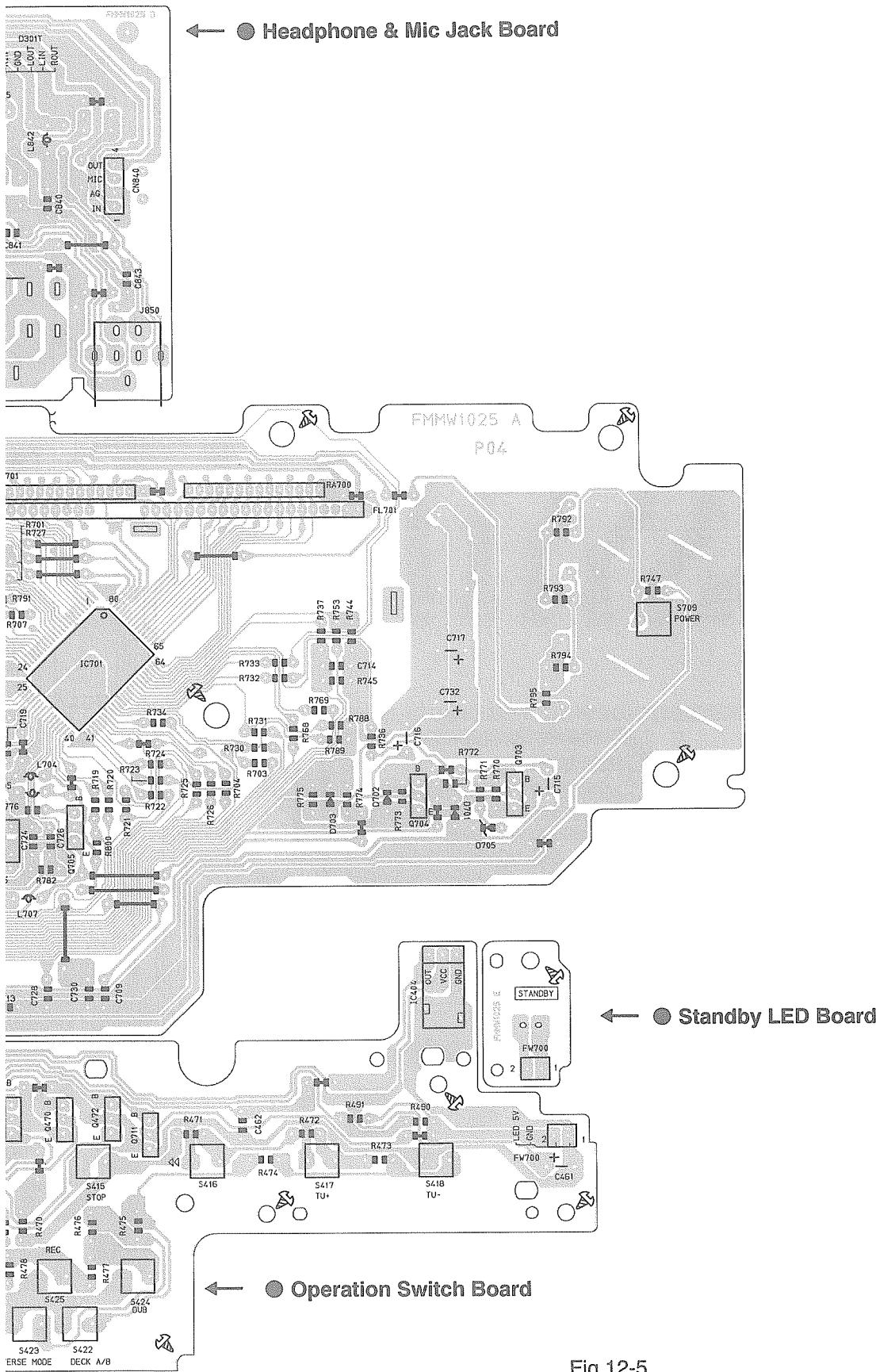
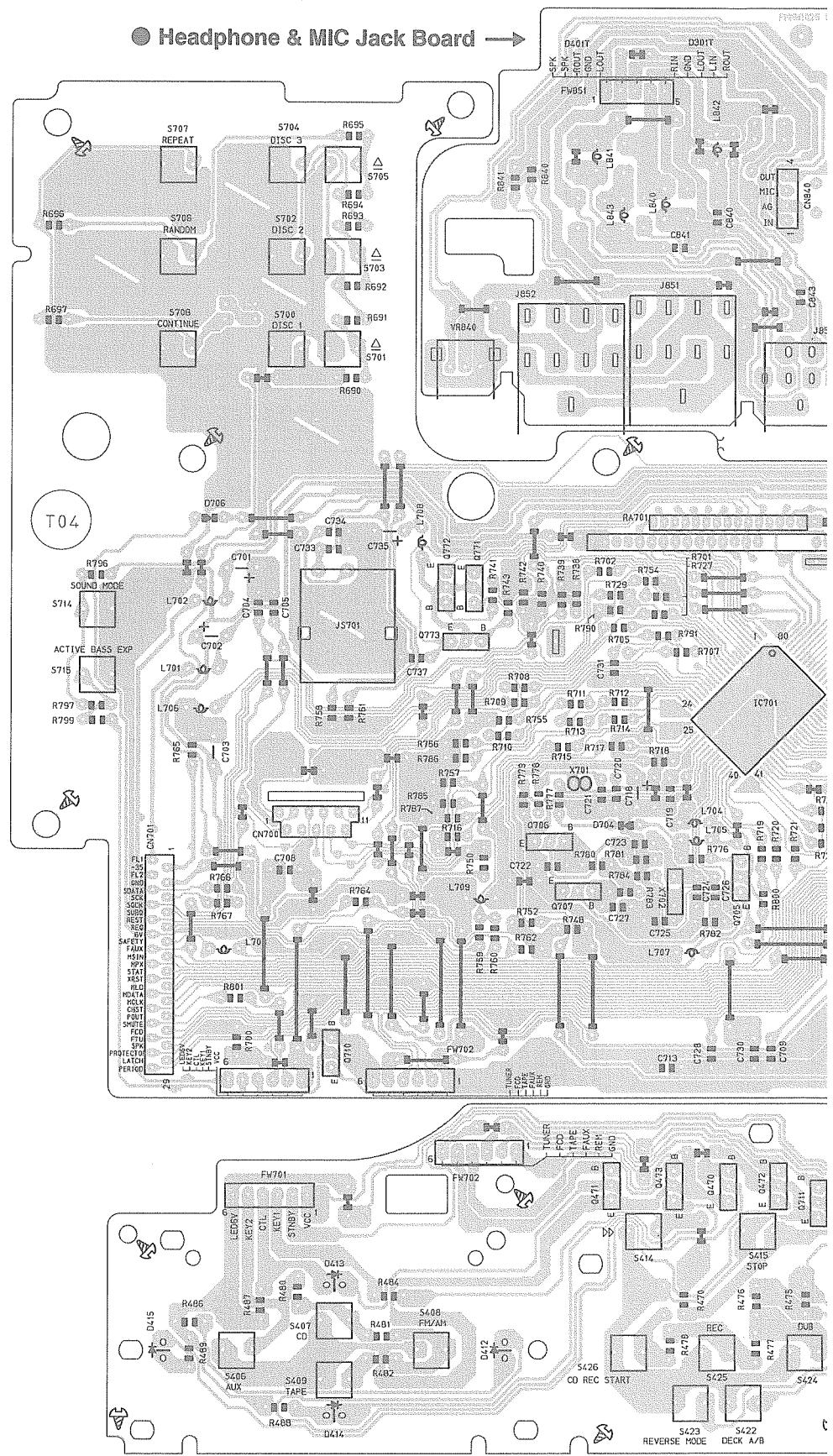


Fig.12-5

1 | 2 | 3 | 4 | 5 |

● Headphone & MIC Jack Board →



6

7

8

9

10

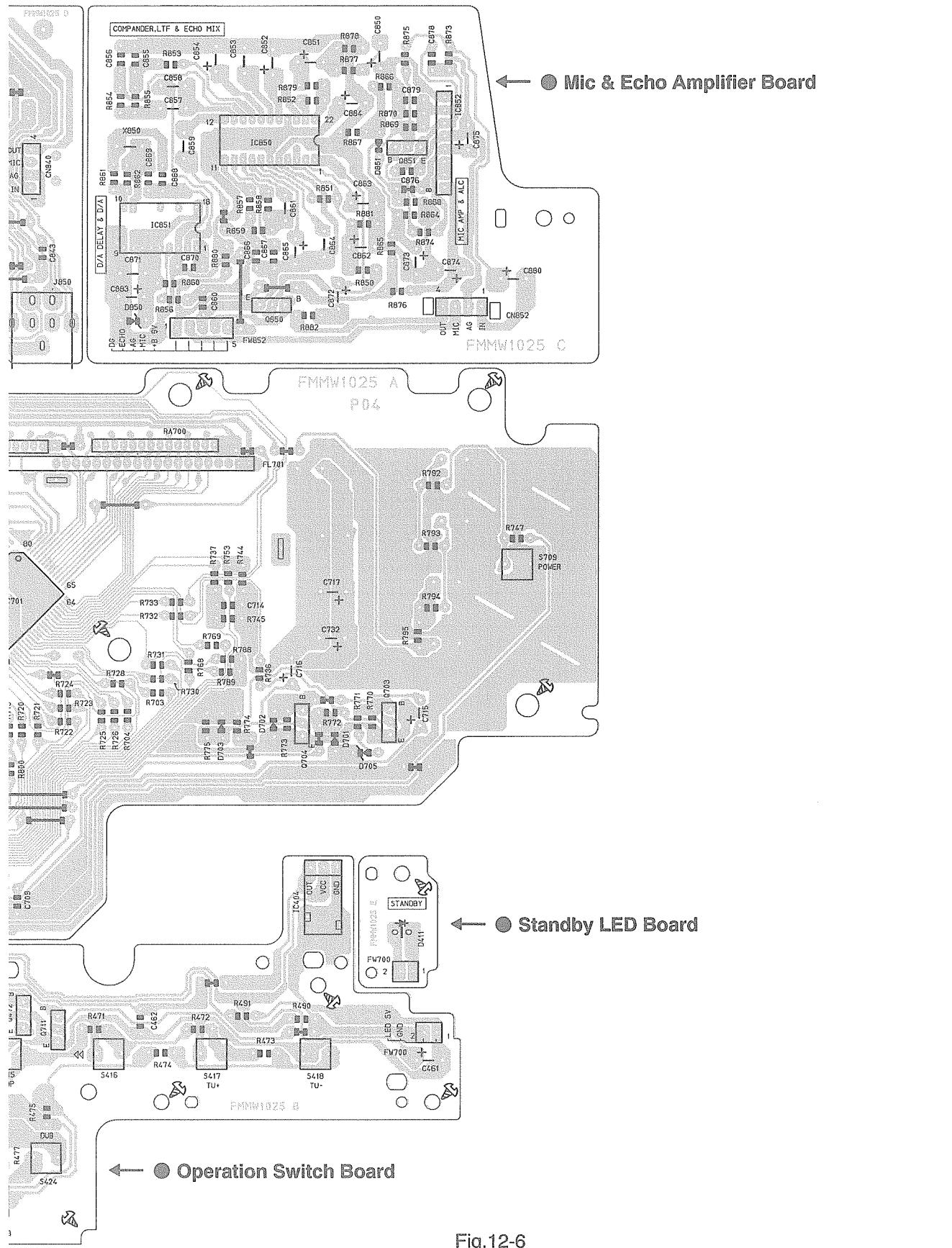


Fig.12-6

Main Amplifier Board (B/E/EN/G Version)

MX-D501T M

13. Electrical Parts List

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 01111111	BLOCK NO. 01111111
C 1	QCC11EM-223V	C..CAPACITOR	*022MF 20% 25V	E..CAPACITOR	C 104 EETB1CM-226E	
C 2	QCCB1CM-332V	C..CAPACITOR	3300PF 20% 16V	E..CAPACITOR	C 106 QTE1H06-475Z	4..7MF 20% 50V
C 3	QCC11EM-473V	C..CAPACITOR	.047MF 20% 25V	E..CAPACITOR	C 108 QTE1V06-106Z	
C 4	QCVB1CN-103Y	C..CAPACITOR	.010MF 30% 16V	FILM CAPACITOR	C 110 QFV71HJ-124ZM	-12MF 5% 50V
C 5	QET41AM-107	E..CAPACITOR	100MF 20% 10V	FILM CAPACITOR	C 111 QEV71HJ-124ZM	-12MF 5% 50V
C 6	QCB11HK-331Y	C..CAPACITOR	330PF 10% 50V	E..CAPACITOR	C 112 QET41M-107	100MF 20% 10V
C 7	QCB11HZ-104Y	C..CAPACITOR	.10MF 1+80+1-20%	E..CAPACITOR	C 113 QTE1V06-106Z	
C 8	QCB11HJ-150Y	C..CAPACITOR	15PF 5% 50V	E..CAPACITOR	C 116 QETC11M-106Z	10MF 20% 50V
C 11	QCC11EM-473V	C..CAPACITOR	.047MF 20% 25V	E..CAPACITOR	C 122 QETN1HM-335Z	3..3MF 20% 50V
C 12	QCS11HJ-150	C..CAPACITOR	15PF 5% 50V	E..CAPACITOR	C 130 QCS31HJ-820Z	82PF 5% 50V
C 13	QCVB1CN-103Y	C..CAPACITOR	.010MF 30% 16V	C..CAPACITOR	C 201 QCS11HJ-330	33PF 5% 50V
C 16	QCB11HJ-104M	FLIM CAPACITOR	.10MF 5% 50V	C..CAPACITOR	C 202 QCS11HJ-100	10PF 5% 50V
C 17	QCB11HK-102Y	C..CAPACITOR	.10MF 20% 16V	C..CAPACITOR	C 203 QTE1H06-475Z	E..CAPACITOR
C 18	QCBB1HK-471Y	C..CAPACITOR	.010MF 5% 50V	E..CAPACITOR	C 204 EETB1CM-226E	E..CAPACITOR
C 19	QCBB1HK-471Y	C..CAPACITOR	.010MF 5% 50V	E..CAPACITOR	C 206 QTE1V06-475Z	E..CAPACITOR
C 21	QETC11EM-473V	C..CAPACITOR	.047MF 20% 25V	E..CAPACITOR	C 208 QTE1V06-106Z	3..3MF 20% 50V
C 30	QEKA41CM-476	E..CAPACITOR	.47MF 20% 16V	FILM CAPACITOR	C 210 QFV71HJ-124ZM	12MF 5% 50V
C 31	QCS31HJ-390Z	C..CAPACITOR	39PF 5% 50V	FILM CAPACITOR	C 211 QFV71HJ-124ZM	12MF 5% 50V
C 32	QEKA11AM-107Z	E..CAPACITOR	1000PF 10% 50V	E..CAPACITOR	C 213 QTE1V06-106Z	E..CAPACITOR
C 33	QEKA11AM-107Z	E..CAPACITOR	100MF 20% 10V	E..CAPACITOR	C 216 QETC11M-106Z	E..CAPACITOR
C 34	QCS11HJ-150	C..CAPACITOR	15PF 5% 50V	FILM CAPACITOR	C 222 QETN1HM-335Z	3..3MF 20% 50V
C 35	QCVB1CN-103Y	C..CAPACITOR	.010MF 30% 16V	E..CAPACITOR	C 230 QCS31HJ-820Z	82PF 5% 50V
C 36	QEKA1CM-106	E..CAPACITOR	10MF 20% 16V	E..CAPACITOR	C 231 QCB11HK-102Y	100MF 20% 10V
C 37	QCC11EM-106	C..CAPACITOR	.010MF 30% 16V	E..CAPACITOR	C 232 QETC11M-106Z	E..CAPACITOR
C 38	QCC11EM-473V	C..CAPACITOR	.047MF 20% 25V	E..CAPACITOR	C 301 QCB11HK-102Y	1000PF 10% 50V
C 39	QCVC11EM-473V	C..CAPACITOR	.047MF 20% 25V	E..CAPACITOR	C 305 QFIC11HJ-225Z	2..2MF 20% 50V
C 40	QCVB1CN-103Y	C..CAPACITOR	.010MF 30% 16V	M..CAPACITOR	C 306 EETB1HM-475E	1000PF 10% 50V
C 41	QEKA41HM-104	E..CAPACITOR	.10MF 20% 50V	E..CAPACITOR	C 307 EETB1HM-475E	E..CAPACITOR
C 42	QEKA1HM-474	E..CAPACITOR	.47MF 20% 50V	E..CAPACITOR	C 308 EETB1CM-226E	E..CAPACITOR
C 43	QEKB61HM-335Z	E..CAPASITOR	3..3MF 20% 50V	C..CAPACITOR	C 309 QCS11HJ-150	C..CAPACITOR
C 44	QCB11HK-221Y	C..CAPACITOR	220PF 10% 50V	C..CAPACITOR	C 310 QCB11HK-471Y	470PF 10% 50V
C 45	QEKA41CM-106	E..CAPACITOR	10MF 20% 16V	C..CAPACITOR	C 311 QCS11HJ-150	15PF 5% 50V
C 46	QCC11EM-223V	C..CAPACITOR	.022MF 20% 25V	C..CAPACITOR	C 312 QCB11HK-151Y	150PF 10% 50V
C 47	QCXB1CM-103Y	C..CAPACITOR	.010MF 20% 16V	C..CAPACITOR	C 313 QCB11HK-471Y	0..22MF 5% 50V
C 49	QFLC11HJ-183Z	M..CAPACITOR	.018MF 5% 50V	C..CAPACITOR	C 314 QETC11M-224Z	E..CAPACITOR
C 50	QFLC11HJ-221Y	M..CAPACITOR	.018MF 5% 50V	C..CAPACITOR	C 315 QFLC11HJ-103Z	M..CAPACITOR
C 51	QEKA41HM-105	E..CAPACITOR	1..0MF 20% 50V	M..CAPACITOR	C 316 QFLC11HJ-393Z	0..39MF 5% 50V
C 52	QEKA1HM-105	E..CAPACITOR	1..0MF 20% 50V	M..CAPACITOR	C 317 QFLC11HJ-473Z	0..47MF 5% 50V
C 53	QCBB11HK-102Y	C..CAPACITOR	1000PF 10% 50V	M..CAPACITOR	C 318 QFLC11HJ-103Z	0..10MF 5% 50V
C 54	QEKB61HM-335Z	E..CAPASITOR	3..3MF 20% 50V	M..CAPACITOR	C 319 QFLC11HJ-593Z	0..39MF 5% 50V
C 55	QFLC11HJ-102Y	C..CAPACITOR	12PF 5% 50V	E..CAPACITOR	C 320 QFIC11HJ-473Z	N..CAPACITOR
C 60	QEKB61AM-107Z	E..CAPACITOR	100MF 20% 10V	E..CAPACITOR	C 321 EETB1EM-106E	E..CAPACITOR
C 61	QES11HJ-105	C..CAPACITOR	12PF 5% 50V	E..CAPACITOR	C 322 EETB1AM-476E	E..CAPACITOR
C 62	QCS11HJ-120	C..CAPACITOR	12PF 5% 50V	E..CAPACITOR	C 323 EET41EM-106	E..CAPACITOR
C 63	QCCC11EM-473V	C..CAPACITOR	.047MF 20% 25V	E..CAPACITOR	C 324 EETC1CM-106ZJC	10MF 20% 25V
C 65	QCBB11HK-102Y	C..CAPACITOR	1000PF 10% 50V	E..CAPACITOR	C 325 EETB1HJ-105E	E..CAPACITOR
C 66	QCBB11HK-151Y	C..CAPACITOR	150PF 10% 50V	M..CAPACITOR	C 327 QFV1HJ-224ZM	22MF 5% 50V
C 68	QCBB11HK-101Y	C..CAPACITOR	100PF 10% 50V	E..CAPACITOR	C 329 QEB11HM-474N	47MF 20% 50V
C 69	QFV41HJ-105	TF..CAPACITOR	1..0MF 5% 50V	E..CAPACITOR	C 332 QFLC11HJ-103Z	0..10MF 5% 50V
C 70	QCXB1CM-192Y	C..CAPACITOR	3900PF 20% 16V	M..CAPACITOR	C 334 QFLC11HJ-223ZM	0..22MF 5% 50V
C 71	QET41CM-476	E..CAPACITOR	4..7MF 20% 16V	E..CAPACITOR	C 335 QET41AM-107Z	100MF 20% 10V
C 72	QCBB11HK-102Y	C..CAPACITOR	1000PF 10% 50V	E..CAPACITOR	C 351 EETB1CM-476	10MF 20% 25V
C 101	QCS11HJ-330	C..CAPACITOR	33PF 5% 50V	E..CAPACITOR	C 352 QET41EM-106	150PF 10% 50V
C 102	QCS11HJ-100	C..CAPACITOR	10PF 5% 50V	E..CAPACITOR	C 362 QCBB11HK-151Y	1000MF 20% 10V
C 103	QTE1H06-475Z	E..CAPACITOR		E..CAPACITOR	C 363 QET41AM-108	

BLOCK NO. [01] [1111]			
A. REF.	PARTS NO.	PARTS NAME	REMARKS
			SUFFIX
C 364	QET41AN-108	E CAPACITOR	1000MF 20% 10V
C 380	QCS11H-330	C. CAPACITOR	33PF 5% 50V
C 381	QCXB1CH-182Y	C. CAPACITOR	1800PF 20% 16V
C 382	QFLC1HU-153ZM	M. CAPACITOR	.015MF 5% 50V
C 383	QCBB1HK-681Y	M. CAPACITOR	.680PF 10% 50V
C 384	EETB11M-105E	E. CAPACITOR	
C 385	QETC1HN-4762M	E. CAPACITOR	47MF 20% 50V
C 908	EETB11M-475E	E. CAPACITOR	
C 909	EETB1CN-22E	E. CAPACITOR	
C 910	EETC1CN-106ZJC	E. CAPACITOR	
C 911	QFLC1H-132M	M. CAPACITOR	.010MF 5% 50V
C 912	QET41AN-107	E. CAPACITOR	.100MF 20% 10V
C 920	QFLC1H-103ZM	N. CAPACITOR	.010MF 5% 50V
C 921	QET41AN-107	E. CAPACITOR	.100MF 20% 10V
C 928	QCVB1CN-103Y	C. CAPACITOR	.010MF 20% 16V
CF 1	VCF2W3B-104	CERAMIC FILTER	
CF 2	VCF2S3B-102	CERAMIC FILTER	
CF 3	VCF122-115Z	CERAMIC FILTER	
CF 4	CMU2-456A05	CERA LOCK	
CN302	VMCO332-010V	CONNECTOR	
CN303	VMCO163-029	CONNECTOR	
CN304	VMCO332-007V	CONNECTOR	
CN305	VMCO332-011V	CONNECTOR	
CN306	VMCO332-010V	CONNECTOR	
CN307	EMV5125-008	CONNECTOR	
CN308	EMV5125-013	CONNECTOR	
CN313	EMV7145-003Z	CONNECTOR	
D 1	1SS133	SI DIODE	
D 2	1SS133	SI DIODE	
D 3	1SS133	SI DIODE	
D 4	1SS133	SI DIODE	
D 7	1SS133	SI DIODE	
D 300	RB721Q	DIODE	
D 301	1SS133	SI DIODE	
D 302	1SS133	SI DIODE	
D 303	RB721Q	DIODE	
D 304	1SS133	SI DIODE	
D 305	MT25-JUAT-77	ZENER DIODE	
D 306	1SS133	SI DIODE	
D 307	1SS133	SI DIODE	
D 308	1SS133	SI DIODE	
D 310	1SS133	SI DIODE	
D 311	1SS133	SI DIODE	
D 312	1SS133	SI DIODE	
D 313	1SS133	SI DIODE	
D 314	1SS133	SI DIODE	
D 315	1SR35-100	SI DIODE	
D 318	1SS133	SI DIODE	
D 319	1SS133	SI DIODE	
D 322	1SS133	SI DIODE	
D 380	1SS133	SI DIODE	
D 904	MT24-3JB	ZENER DIODE	
D 905	1SS133	SI DIODE	
D 906	1SS133	ZENER DIODE	
D 907	MT23-9JB	ZENER DIODE	

BLOCK NO. [01] [1111]			
A. REF.	PARTS NO.	PARTS NAME	REMARKS
			SUFFIX
D 912	RDS-6U-SAB1	ZENER DIODE	
D 913	1SS133	SI DIODE	
D 915	1SS133	SI DIODE	
D 928	MT22-4JB	ZENER DIODE	
EPO01	E409162-001SM	GRAND TERMINAL	
IC 1	T A205VN	IC	
IC 2	L C72136N	IC	
IC301	NJM4550L	IC	
IC302	BH3854AS	IC	
IC303	NJM4580L	IC	
J 451	EMB41V-302K	ANT TERMINAL	
J 4501	EMN001V-222AJ2	PIN JACK	
L 1	VQ70058-101	COIL BLOCK	
L 4	VQP0018-221	INDUCTOR	
L 10	VQZ0059-002S	TRAP COIL	
L 303	VQP0018-2R7	INDUCTOR	
L 304	VQZ0048-009	INDUCTOR	
L 305	VQZ0048-009	INDUCTOR	
L 306	VQP0028-100Z	INDUCTOR	
PP301	VMZ0011-005	POST PIN	
PP302	VMZ0015-005	POST PIN	
Q 1	2SC1923	TRANSISTOR	
Q 2	DTA114S	TRANSISTOR	
Q 3	2SC2785	TRANSISTOR	
Q 4	2SC2755	TRANSISTOR	
Q 6	DTA114S	TRANSISTOR	
Q 16	2SC2785	TRANSISTOR	
Q 301	2SD2144S(VW)	TRANSISTOR	
Q 302	2SD2144S(VW)	TRANSISTOR	
Q 303	DTA114YS	TRANSISTOR	
Q 304	2SK246(GR,BL)	FET	
Q 305	2SK246(GR,BL)	FET	
Q 306	DTC144TS(P)	TRANSISTOR	
Q 307	2SD2144S(VW)	TRANSISTOR	
Q 308	2SD2144S(VW)	TRANSISTOR	
Q 309	2SC2785	TRANSISTOR	
Q 310	2SC2785	TRANSISTOR	
Q 311	DTA114S	TRANSISTOR	
Q 312	2SC2785	TRANSISTOR	
Q 314	DTA144S	D. TRANSISTOR	
Q 320	DTC144TS(P)	TRANSISTOR	
Q 380	2SC2785	TRANSISTOR	
Q 381	2SC2785	TRANSISTOR	
Q 907	2SA1175	TRANSISTOR	
Q 908	2SC2785	TRANSISTOR	
Q 909	2SB1375	TRANSISTOR	
Q 910	2SC2785	TRANSISTOR	
Q 913	2SB1375	TRANSISTOR	
Q 914	2SC2785	TRANSISTOR	
Q 915	2SC2785	TRANSISTOR	
Q 916	2SC2785	TRANSISTOR	
R 1	QRD161-102	CARBON RESISTOR	1.0K 5% 1/6W
R 2	QRD161J-181	CARBON RESISTOR	180 5% 1/6W
R 3	QRD161-101	CARBON RESISTOR	100 5% 1/6W

BLOCK NO. [01] [] []

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	10	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R	12	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	13	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	15	GRD161J-105	CARBON RESISTOR	10K 5% 1/6W	
R	16	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	20	GRD161J-331	CARBON RESISTOR	10K 5% 1/6W	
R	21	GRD161J-224	CARBON RESISTOR	330 5% 1/6W	
R	22	GRD161J-331	CARBON RESISTOR	220K 5% 1/6W	
R	24	GRD161J-271	CARBON RESISTOR	330 5% 1/6W	
R	25	GRD161J-473	CARBON RESISTOR	270 5% 1/6W	
R	26	GRD161J-275	CARBON RESISTOR	47K 5% 1/6W	
R	27	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	29	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R	30	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	31	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	34	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	35	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	36	GRD161J-103	CARBON RESISTOR	100 5% 1/6W	
R	37	GRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R	38	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	39	GRD161J-372	CARBON RESISTOR	3.9K 5% 1/6W	
R	42	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	43	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	44	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	45	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	46	GRD161J-104	CARBON RESISTOR	1.0K 5% 1/6W	
R	47	GRD161J-103	CARBON RESISTOR	1.0K 5% 1/6W	
R	48	GRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R	49	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	52	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	54	GRD161J-772	CARBON RESISTOR	4.7K 5% 1/6W	
R	55	GRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R	56	GRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R	57	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	60	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	61	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	64	GRD161J-773	CARBON RESISTOR	4.7K 5% 1/6W	
R	65	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	66	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	69	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	70	GRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R	71	GRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
R	72	GRD161J-222	CARBON RESISTOR	1.2K 5% 1/6W	
R	73	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	74	GRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R	75	GRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R	101	GRD161J-114	CARBON RESISTOR	110K 5% 1/6W	
R	102	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	103	GRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R	104	GRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R	107	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	108	GRD161J-362	CARBON RESISTOR	3.6K 5% 1/6W	
R	109	GRD161J-303Y	CARBON RESISTOR	30K 5% 1/6W	
R	110	GRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
R	111	GRD161J-563	CARBON RESISTOR	56K 5% 1/6W	

BLOCK NO. [01] [] []

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	112	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	113	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	114	GRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
R	116	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	117	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	118	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	119	GRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R	120	GRD161J-823	CARBON RESISTOR	8.2K 5% 1/6W	
R	121	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	122	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	123	GRD161J-474	CARBON RESISTOR	4.7K 5% 1/6W	
R	124	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	125	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	130	GRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
R	201	GRD161J-114	CARBON RESISTOR	110K 5% 1/6W	
R	202	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	203	GRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R	204	GRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R	207	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	208	GRD161J-362	CARBON RESISTOR	3.6K 5% 1/6W	
R	209	GRD161J-303Y	CARBON RESISTOR	30K 5% 1/6W	
R	210	GRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
R	211	GRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R	212	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	213	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	214	GRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
R	216	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	217	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	218	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R	219	GRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R	220	GRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R	221	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	222	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	223	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	224	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	225	GRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R	230	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	300	GRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
R	301	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R	302	GRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
R	303	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R	304	GRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R	305	GRD161J-102	CARBON RESISTOR	330K 5% 1/6W	
R	306	GRD161J-102	CARBON RESISTOR	47K 5% 1/6W	
R	307	GRD161J-222	CARBON RESISTOR	180K 5% 1/6W	
R	308	GRD161J-152	CARBON RESISTOR	220K 5% 1/6W	
R	309	GRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R	310	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	311	GRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R	313	GRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
R	315	GRD161J-472	CARBON RESISTOR	470K 5% 1/6W	
R	318	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	320	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R	327	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W	

■ Main Amplifier Board (U/UB/UP/US/UT Version)

BLOCK NO. 011111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 101111	REMARKS	SUFFIX
R 328	QRD161J-223	CARBON RESISTOR 22K	5% 1/6W			VBP4M3B-005	B.PASS FILTER	
R 347	QRD161J-153	CARBON RESISTOR 15K	5% 1/6W			C QCS11H-200	C.CAPACITOR	20PF 5% 50V
R 350	QRD161J-223	CARBON RESISTOR 22K	5% 1/6W			C QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V
R 353	QRD161J-823	CARBON RESISTOR 82K	5% 1/6W			C QCSB1HK-8R2Y	C.CAPACITOR	8.1PF 10% 50V
R 354	QRD161J-823	CARBON RESISTOR 82K	5% 1/6W			C QCS11H-100	C.CAPACITOR	10PF 5% 50V
R 355	QRD161J-105	CARBON RESISTOR 1.0M	5% 1/6W			C QCSB1HK-4R7Y	C.CAPACITOR	4.0PF 10% 50V
R 356	QRD161J-105	CARBON RESISTOR 1.0M	5% 1/6W			C QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V
R 357	QRD161J-102	CARBON RESISTOR 1.0K	5% 1/6W			C QCS11H-200	C.CAPACITOR	.02PF 5% 50V
R 358	QRD161J-102	CARBON RESISTOR 1.0K	5% 1/6W			C QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V
R 361	QRD167J-562	CARBON RESISTOR 5.6K	5% 1/6W			C QCS11H-100	C.CAPACITOR	.10PF 5% 50V
R 380	QRD161J-225	CARBON RESISTOR 2.2M	5% 1/6W			C QCSB1HK-2R2Y	C.CAPACITOR	2.2PF 10% 50V
R 381	QRD161J-473	CARBON RESISTOR 47K	5% 1/6W			C QFV41H-1042M	FILM CAPACITOR	.10MF 5% 50V
R 382	QRD161J-220	CARBON RESISTOR 22	5% 1/6W			C QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V
R 383	QRD161J-104	CARBON RESISTOR 100K	5% 1/6W			C QT41CH-476	E.CAPACITOR	47MF 20% 16V
R 917	QRD161J-101	CARBON RESISTOR 100	5% 1/6W			C QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V
R 918	QRD161J-106	CARBON RESISTOR 100K	5% 1/6W			C QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V
R 919	QRD161J-390	CARBON RESISTOR 39	5% 1/6W			C QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V
R 920	QRD161J-102	CARBON RESISTOR 1.0K	5% 1/6W			C QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V
R 921	QRD161J-392	CARBON RESISTOR 3.9K	5% 1/6W			C QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V
R 922	QRD161J-103	CARBON RESISTOR 10K	5% 1/6W			C QCT30UJ-100Y	C.CAPACITOR	.10PF 5% 50V
R 923	QRD161J-151	CARBON RESISTOR 150	5% 1/6W			C QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V
R 924	QRZ20077-220X	F-RESISTOR 22	1/0W			C QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V
R 925	QRD161J-473	CARBON RESISTOR 47K	5% 1/6W			C QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V
R 926	QRD161J-561	CARBON RESISTOR 560	5% 1/6W			C QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V
R 927	QRD161J-223	CARBON RESISTOR 22K	5% 1/6W			C QEK61AM-072	E.CAPACITOR	100MF 20% 10V
R 928	QRD161J-682	CARBON RESISTOR 6.8K	5% 1/6W			C QCS11H-150	C.CAPACITOR	15PF 5% 50V
R 929	QRD167J-332	CARBON RESISTOR 3.3K	5% 1/6W			C QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V
R 930	QRD161J-682	CARBON RESISTOR 6.8K	5% 1/6W			C QEK41CM-106	E.CAPACITOR	10MF 20% 16V
R 979	QRD161J-471	CARBON RESISTOR 470	5% 1/6W			C QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V
R 980	QRD161J-104	CARBON RESISTOR 100K	5% 1/6W			C QCC11EM-73V	C.CAPACITOR	.047MF 20% 25V
T 1	VQT7A2-111	IFT FRONT END CRYSTAL				C QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V
TU 1	VAF2S13-001					C 40 QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V
X 1	VCX5044-001					C 41 QEK41CM-104	E.CAPACITOR	.10MF 20% 50V
						C 42 QEK41HM-474	E.CAPACITOR	.47MF 20% 50V
						C 43 QEK61HM-355ZN	E.CAPACITOR	3.3MF 20% 50V
						C 44 QCS11H-680	C.CAPACITOR	68PF 5% 50V
						C 45 QEK41CM-106	E.CAPACITOR	10MF 20% 16V
						C 46 QCC31EM-353ZV	C.CAPACITOR	.033MF 20% 16V
						C 47 QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V
						C 49 QCC31EM-393ZV	C.CAPACITOR	.039MF 20% 25V
						C 50 QCC31EM-593ZV	C.CAPACITOR	.039MF 20% 25V
						C 51 QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V
						C 52 QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V
						C 54 QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V
						C 56 QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V
						C 60 QEK51AM-1072	E.CAPACITOR	100MF 20% 10V
						C 61 QCS11H-120	C.CAPACITOR	1.2PF 5% 50V
						C 62 QCS11H-120	C.CAPACITOR	1.2PF 5% 50V
						C 63 QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V
						C 65 QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V
						C 69 QFV41HJ-105	TF.CAPACITOR	1.0MF 5% 50V
						C 70 QCXB1CM-392Y	C.CAPACITOR	3900PF 20% 16V
						C 71 QET41CM-476	E.CAPACITOR	47MF 20% 16V
						C 99 QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V

BLOCK NO. [10] [11] [12]

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX				BLOCK NO. [10] [11] [12]
A	REF.	PARTS NO.	PARTS NAME						
C 101	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V						
C 102	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V						
C 103	QTE1H06-475Z	E.CAPACITOR							
C 104	EETB1CM-22E	E.CAPACITOR							
C 106	QTE1H06-475Z	E.CAPACITOR							
C 108	QTE1V06-106Z	E.CAPACITOR							
C 110	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V						
C 111	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V						
C 112	QET41AM-107	E.CAPACITOR	100MF 20% 10V						
C 113	QTE1V06-106Z	E.CAPACITOR							
C 116	QETC1HM-106ZN	E.CAPACITOR	10MF 20% 50V						
C 122	QEEN1HM-33Z	E.CAPACITOR	3.3MF 20% 50V						
C 130	QCС331HJ-820Z	E.CAPACITOR	82PF 5% 50V						
C 201	QES11HJ-330	C.CAPACITOR	33PF 5% 50V						
C 202	QES11HJ-100	C.CAPACITOR	10PF 5% 50V						
C 203	QTE1H06-475Z	E.CAPACITOR							
C 204	EETB1CM-22E	E.CAPACITOR							
C 206	QTE1H06-475Z	E.CAPACITOR							
C 208	QTE1V06-106Z	E.CAPACITOR							
C 210	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V						
C 211	QFV71HJ-124ZM	FILM CAPACITOR	.12MF 5% 50V						
C 212	QET41AM-107	E.CAPACITOR	100MF 20% 10V						
C 213	QTE1V06-106Z	E.CAPACITOR							
C 216	QETC1HM-106ZN	E.CAPACITOR	10MF 20% 50V						
C 220	QES31HJ-350Z	E.CAPACITOR	3.3MF 20% 50V						
C 230	QES31HJ-820Z	E.CAPACITOR	82PF 5% 50V						
C 301	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V						
C 305	QCFC1HJ-223ZM	M.CAPACITOR	.022MF 5% 50V						
C 306	EETB1HM-475E	E.CAPACITOR							
C 307	EETB1HM-475E	E.CAPACITOR							
C 308	EETB1CM-22E	E.CAPACITOR							
C 309	QES11HJ-150	C.CAPACITOR	15PF 5% 50V						
C 310	QCBB1HK-771Y	C.CAPACITOR	470PF 10% 50V						
C 311	QES11HJ-150	C.CAPACITOR	15PF 5% 50V						
C 312	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V						
C 313	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V						
C 314	QETC1HM-224Z	E.CAPACITOR	.22MF 20% 50V						
C 315	QFLC1HJ-103ZM	M.CAPACITOR	.010MF 5% 50V						
C 316	QFLC1HJ-193ZM	M.CAPACITOR	.039MF 5% 50V						
C 317	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V						
C 318	QFLC1HJ-103ZM	M.CAPACITOR	.010MF 5% 50V						
C 319	QFLC1HJ-393ZM	M.CAPACITOR	.039MF 5% 50V						
C 320	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V						
C 321	EETB1EM-106E	E.CAPACITOR							
C 322	EETB1AM-476E	E.CAPACITOR							
C 323	QET41EM-106	E.CAPACITOR	10MF 20% 25V						
C 324	EETC1CM-106JC	E.CAPACITOR							
C 325	EETB1HM-105E	E.CAPACITOR							
C 327	QFV41HJ-224ZM	M.M.CAPACITOR	-22MF 5% 50V						
C 329	QETB1HM-174N	E.CAPACITOR	.47MF 20% 50V						
C 332	QFLC1HJ-103ZM	M.CAPACITOR	.010MF 5% 50V						
C 334	QFLC1HJ-223ZM	M.CAPACITOR	.022MF 5% 50V						
C 335	QETN1AM-107	E.CAPACITOR	100MF 20% 10V						
C 336	QETN1CM-106Z	E.CAPACITOR	10MF 20% 16V						
C 338	QETN1CM-106Z	E.CAPACITOR	10MF 20% 16V						

BLOCK NO. [10] [11] [12]		BLOCK NO. [10] [11] [12]						
A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REMARKS	PARTS NAME	PARTS NO.	BLOCK NO. [10] [11] [12]
D 13	ISS133	SI DIODE						
D 300	RB721Q	SI DIODE						
D 301	ISS133	SI DIODE						
D 302	ISS133	SI DIODE						
D 303	RB721Q	DIODE						
D 304	MT25.1JAT-77	SI DIODE						
D 305	MT25.1JAT-77	ZENER DIODE						
D 306	ISS133	SI DIODE						
D 307	ISS133	SI DIODE						
D 308	ISS133	SI DIODE						
D 310	ISS133	SI DIODE						
D 311	ISS133	SI DIODE						
D 312	ISS133	SI DIODE						
D 313	ISS133	SI DIODE						
D 314	ISS133	SI DIODE						
D 315	1SR35-100	SI DIODE						
D 318	ISS133	SI DIODE						
D 319	ISS133	SI DIODE						
D 322	ISS133	SI DIODE						
D 380	ISS133	SI DIODE						
D 381	ISS133	SI DIODE						
D 383	ISS133	SI DIODE						
D 904	MT24.3JB	ZENER DIODE						
D 905	ISS133	SI DIODE						
D 906	ISS133	SI DIODE						
D 907	MT23.9JB	ZENER DIODE						
D 912	RD5.6-SAB1	ZENER DIODE						
D 913	ISS133	SI DIODE						
D 915	ISS133	SI DIODE						
D 928	MT22.4JB	ZENER DIODE						
EP001 E409182-001SM		GRAND TERMINAL						
IC 1	TA2057N	IC						
IC 2	LC72136N	IC						
IC 4	TA7358P	IC						
IC301	NJM4580L	IC						
IC302	BH3854AS	IC						
IC303	NJM4580L	IC						
IC305	BA3837	IC (VOCALFADE)						
J A301	EMN00TV-222AJ2	PIN JACK	ANT TERMINAL					
L 1	VGF1B20-019	OSC COIL						
L 2	VQ1505-002T	RF COIL						
L 3	VQZ098-202	COIL BLOCK						
L 4	VQP0018-221	INDUCTOR						
L 306	VQP0028-100Z	INDUCTOR						
PP301	VM20015-005	POST PIN						
PP302	VM20015-005	POST PIN						
Q 1	2SS1923	TRANSISTOR						
Q 4	DTA114Y	TRANSISTOR						
Q 301	2SD2144S(VW)	TRANSISTOR						
Q 302	2SD2144S(VW)	TRANSISTOR						
Q 303	DTA114Y	FET						
Q 304	2SD246(GR-BL)	FET						
Q 306	DT144TSTP	TRANSISTOR						
A REF.		PARTS NO.		SUFFIX		PARTS NAME	PARTS NO.	BLOCK NO. [10] [11] [12]
Q 307		2SD2144S(VW)				TRANSISTOR		
Q 308		2SD2144S(VW)				TRANSISTOR		
Q 309		2SC2785				TRANSISTOR		
Q 310		2SC2785				TRANSISTOR		
Q 311		DTA114E S				TRANSISTOR		
Q 312		2SC2785				TRANSISTOR		
Q 314		DTA114E S				D.T. TRANSISTOR		
Q 315		2SD2144S(VW)				TRANSISTOR		
Q 316		2SD2144S(VW)				TRANSISTOR		
Q 317		2SC2785				TRANSISTOR		
Q 320		DTC144TSTP				TRANSISTOR		
Q 380		2SC2785				TRANSISTOR		
Q 381		2SC2785				TRANSISTOR		
Q 907		2SA115				TRANSISTOR		
Q 908		2SC2785				TRANSISTOR		
Q 909		2SB1375				TRANSISTOR		
Q 910		2SC2785				TRANSISTOR		
Q 913		2SB1375				TRANSISTOR		
Q 914		2SC2785				TRANSISTOR		
Q 915		2SC2785				TRANSISTOR		
Q 916		2SC2785				TRANSISTOR		
R 1		QRD161J-104				CARBON RESISTOR	100K 5% 1/6W	
R 2		QRD161J-473				CARBON RESISTOR	47K 5% 1/6W	
R 3		QRD167J-4R7				CARBON RESISTOR	4.7% 5% 1/6W	
R 7		QRD161J-104				CARBON RESISTOR	100K 5% 1/6W	
R 8		QRD161J-821				CARBON RESISTOR	820 5% 1/6W	
R 9		QRD161J-102				CARBON RESISTOR	1.0K 5% 1/6W	
R 10		QRD161J-101				CARBON RESISTOR	100 5% 1/6W	
R 11		QRD161J-104				CARBON RESISTOR	100K 5% 1/6W	
R 12		QRD161J-560				CARBON RESISTOR	56% 5% 1/6W	
R 17		QRD161J-102				CARBON RESISTOR	1.0K 5% 1/6W	
R 18		QRD161J-331				CARBON RESISTOR	330 5% 1/6W	
R 20		QRD161J-474				CARBON RESISTOR	470K 5% 1/6W	
R 21		QRD161J-223				CARBON RESISTOR	22K 5% 1/6W	
R 22		QRD161J-331				CARBON RESISTOR	330 5% 1/6W	
R 23		QRD161J-560				CARBON RESISTOR	56% 5% 1/6W	
R 24		QRD161J-271				CARBON RESISTOR	270 5% 1/6W	
R 25		QRD161J-273				CARBON RESISTOR	27K 5% 1/6W	
R 26		QRD161J-273				CARBON RESISTOR	27K 5% 1/6W	
R 27		QRD161J-223				CARBON RESISTOR	22K 5% 1/6W	
R 30		QRD161J-103				CARBON RESISTOR	10K 5% 1/6W	
R 31		QRD161J-103				CARBON RESISTOR	56% 5% 1/6W	
R 32		QRD161J-60				CARBON RESISTOR	1.0K 5% 1/6W	
R 33		QRD161J-102				CARBON RESISTOR	2.2K 5% 1/6W	
R 34		QRD161J-222				CARBON RESISTOR	2.2K 5% 1/6W	
R 35		QRD161J-222				CARBON RESISTOR	10K 5% 1/6W	
R 36		QRD161J-103				CARBON RESISTOR	5.6% 5% 1/6W	
R 37		QRD167J-502				CARBON RESISTOR	3.9% 5% 1/6W	
R 38		QRD161J-392				CARBON RESISTOR	3.9% 5% 1/6W	
R 42		QRD161J-102				CARBON RESISTOR	1.0K 5% 1/6W	
R 43		QRD161J-102				CARBON RESISTOR	1.0K 5% 1/6W	
R 44		QRD161J-102				CARBON RESISTOR	1.0K 5% 1/6W	
R 45		QRD161J-102				CARBON RESISTOR	1.0K 5% 1/6W	
R 46		QRD161J-104				CARBON RESISTOR	100K 5% 1/6W	

BLOCK NO. 1011111111

BLOCK NO. 1011111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 47	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 50	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 52	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 54	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 55	GRD161J-102	CARBON RESISTOR	4.7K 5% 1/6W		
R 56	GRD161J-332	CARBON RESISTOR	1.8K 5% 1/6W		
R 57	GRD161J-102	CARBON RESISTOR	3.3K 5% 1/6W		
R 58	GRD161J-502	CARBON RESISTOR	1.0K 5% 1/6W		
R 59	GRD161J-502	CARBON RESISTOR	5.6K 5% 1/6W		
R 64	GRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W		
R 66	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 67	GRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W		
R 69	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 101	GRD161J-114	CARBON RESISTOR	110K 5% 1/6W		
R 102	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 103	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 104	GRD161J-393	CARBON RESISTOR	39K 5% 1/6W		
R 107	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 108	GRD161J-382	CARBON RESISTOR	3.6K 5% 1/6W		
R 109	GRD161J-303Y	CARBON RESISTOR	30K 5% 1/6W		
R 110	GRD161J-184	CARBON RESISTOR	180K 5% 1/6W		
R 111	GRD161J-563	CARBON RESISTOR	56K 5% 1/6W		
R 112	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 113	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 114	GRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W		
R 116	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 117	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 118	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 119	GRD161J-832	CARBON RESISTOR	8.2K 5% 1/6W		
R 120	GRD161J-832	CARBON RESISTOR	8.2K 5% 1/6W		
R 121	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 122	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 124	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 125	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 130	GRD161J-833	CARBON RESISTOR	82K 5% 1/6W		
R 131	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		
R 201	GRD161J-114	CARBON RESISTOR	110K 5% 1/6W		
R 202	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 203	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 204	GRD161J-333	CARBON RESISTOR	33K 5% 1/6W		
R 207	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 208	GRD161J-332	CARBON RESISTOR	3.6K 5% 1/6W		
R 209	GRD161J-303Y	CARBON RESISTOR	30K 5% 1/6W		
R 210	GRD161J-184	CARBON RESISTOR	180K 5% 1/6W		
R 211	GRD161J-553	CARBON RESISTOR	56K 5% 1/6W		
R 212	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 213	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 214	GRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W		
R 216	GRD161J-124	CARBON RESISTOR	120K 5% 1/6W		
R 217	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 218	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		
R 219	GRD161J-832	CARBON RESISTOR	8.2K 5% 1/6W		
R 220	GRD161J-832	CARBON RESISTOR	8.2K 5% 1/6W		
R 221	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	PARTS NAME	PARTS NO.	REMARKS	SUFFIX
R 222	GRD161J-472	CARBON RESISTOR	10K 5% 1/6W			CARBON RESISTOR	4.7K 5% 1/6W		
R 223	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W			CARBON RESISTOR	10K 5% 1/6W		
R 224	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			CARBON RESISTOR	10K 5% 1/6W		
R 225	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W			CARBON RESISTOR	82K 5% 1/6W		
R 230	GRD161J-823	CARBON RESISTOR	10K 5% 1/6W			CARBON RESISTOR	4.7K 5% 1/6W		
R 231	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			CARBON RESISTOR	4.7K 5% 1/6W		
R 300	GRD161J-334	CARBON RESISTOR	1.0K 5% 1/6W			CARBON RESISTOR	3.6K 5% 1/6W		
R 301	GRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W			CARBON RESISTOR	4.7K 5% 1/6W		
R 302	GRD161J-184	CARBON RESISTOR	180K 5% 1/6W			CARBON RESISTOR	180K 5% 1/6W		
R 303	GRD161J-224	CARBON RESISTOR	220K 5% 1/6W			CARBON RESISTOR	120K 5% 1/6W		
R 304	GRD161J-124	CARBON RESISTOR	1.0K 5% 1/6W			CARBON RESISTOR	1.0K 5% 1/6W		
R 305	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			CARBON RESISTOR	1.0K 5% 1/6W		
R 306	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			CARBON RESISTOR	2.2K 5% 1/6W		
R 307	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			CARBON RESISTOR	1.5K 5% 1/6W		
R 309	GRD161J-152	CARBON RESISTOR	100 5% 1/6W			CARBON RESISTOR	100 5% 1/6W		
R 310	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W			CARBON RESISTOR	22K 5% 1/6W		
R 311	GRD161J-124	CARBON RESISTOR	120K 5% 1/6W			CARBON RESISTOR	3.6K 5% 1/6W		
R 313	GRD161J-302	CARBON RESISTOR	302 5% 1/6W			CARBON RESISTOR	2.2K 5% 1/6W		
R 315	GRD161J-222	CARBON RESISTOR	222 5% 1/6W			CARBON RESISTOR	222 5% 1/6W		
R 316	GRD161J-474	CARBON RESISTOR	4.7K 5% 1/6W			CARBON RESISTOR	22K 5% 1/6W		
R 318	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W			CARBON RESISTOR	22K 5% 1/6W		
R 320	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W			CARBON RESISTOR	100K 5% 1/6W		
R 321	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			CARBON RESISTOR	1.0K 5% 1/6W		
R 323	GRD161J-221	CARBON RESISTOR	220 5% 1/6W			CARBON RESISTOR	220 5% 1/6W		
R 327	GRD161J-223	CARBON RESISTOR	223 5% 1/6W			CARBON RESISTOR	22K 5% 1/6W		
R 328	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W			CARBON RESISTOR	22K 5% 1/6W		
R 330	GRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W			CARBON RESISTOR	2.4K 5% 1/6W		
R 331	GRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W			CARBON RESISTOR	2.4K 5% 1/6W		
R 340	GRD161J-513	CARBON RESISTOR	513 5% 1/6W			CARBON RESISTOR	51K 5% 1/6W		
R 347	GRD161J-153	CARBON RESISTOR	153 5% 1/6W			CARBON RESISTOR	15K 5% 1/6W		
R 350	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W			CARBON RESISTOR	82K 5% 1/6W		
R 353	GRD161J-823	CARBON RESISTOR	82K 5% 1/6W			CARBON RESISTOR	82K 5% 1/6W		
R 354	GRD161J-823	CARBON RESISTOR	82K 5% 1/6W			CARBON RESISTOR	82K 5% 1/6W		
R 355	GRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W			CARBON RESISTOR	1.0M 5% 1/6W		
R 356	GRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W			CARBON RESISTOR	1.0M 5% 1/6W		
R 357	GRD161J-102	CARBON RESISTOR	102 5% 1/6W			CARBON RESISTOR	102 5% 1/6W		
R 358	GRD161J-102	CARBON RESISTOR	102 5% 1/6W			CARBON RESISTOR	102 5% 1/6W		
R 361	GRD161J-562	CARBON RESISTOR	562 5% 1/6W			CARBON RESISTOR	562 5% 1/6W		
R 362	GRD161J-103	CARBON RESISTOR	103 5% 1/6W			CARBON RESISTOR	103 5% 1/6W		
R 363	GRD161J-473	CARBON RESISTOR	4.73 5% 1/6W			CARBON RESISTOR	4.73 5% 1/6W		
R 364	GRD161J-563	CARBON RESISTOR	563 5% 1/6W			CARBON RESISTOR	563 5% 1/6W		
R 365	GRD161J-223	CARBON RESISTOR	223 5% 1/6W			CARBON RESISTOR	223 5% 1/6W		
R 380	GRD161J-225	CARBON RESISTOR	2.25 5% 1/6W			CARBON RESISTOR	2.25 5% 1/6W		
R 381	GRD161J-473	CARBON RESISTOR	4.73 5% 1/6W			CARBON RESISTOR	4.73 5% 1/6W		
R 382	GRD161J-220	CARBON RESISTOR	220 5% 1/6W			CARBON RESISTOR	220 5% 1/6W		
R 383	GRD161J-104	CARBON RESISTOR	100 5% 1/6W			CARBON RESISTOR	100 5% 1/6W		
R 399	GRD161J-101	CARBON RESISTOR	6.8K 5% 1/6W			CARBON RESISTOR	6.8K 5% 1/6W		
R 400	GRD161J-682	CARBON RESISTOR	4.7K 5% 1/6W			CARBON RESISTOR	4.7K 5% 1/6W		
R 401	GRD161J-473	CARBON RESISTOR	4.73 5% 1/6W			CARBON RESISTOR	4.73 5% 1/6W		
R 402	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W			CARBON RESISTOR	10K 5% 1/6W		
R 403	GRD161J-561	CARBON RESISTOR	561 5% 1/6W			CARBON RESISTOR	561 5% 1/6W		
R 917	GRD161J-101	CARBON RESISTOR	100 5% 1/6W			CARBON RESISTOR	100 5% 1/6W		
R 918	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W			CARBON RESISTOR	100K 5% 1/6W		
R 919	GRD161J-390	CARBON RESISTOR	39 5% 1/6W			CARBON RESISTOR	39 5% 1/6W		

■ Power Supply & Power Amplifier Board

BLOCK NO. 10

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 02	BLOCK NO. 01	BLOCK NO. 10
R	920	QBD161J-T02	CARBON RESISTOR 1.0K 5% 1/6W			C 901 QETM1HM-228	E CAPACITOR	2200MF 20% 50V
R	921	QBD161J-392	CARBON RESISTOR 3.9K 5% 1/6W			C 902 QETM1HM-228	E CAPACITOR	2200MF 20% 50V
R	922	QBD161J-103	CARBON RESISTOR 10K 5% 1/6W			C 903 QETM1HM-228	E CAPACITOR	2200MF 20% 50V
R	923	QBD161J-151	CARBON RESISTOR 150 5% 1/6W			C 904 QCBB1HK-221Y	E CAPACITOR	220PF 10% 50V
R	924	QBD0077-220X	FUSI.-RESISTOR 22 1.6W			C 905 QET41CM-106	E CAPACITOR	10MF 20% 16V
R	925	QBD161J-473	CARBON RESISTOR 47K 5% 1/6W			C 906 QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V
R	926	QBD161J-561	CARBON RESISTOR 560 5% 1/6W			C 907 QET41CM-226	E CAPACITOR	2.2MF 20% 16V
R	927	QBD161J-223	CARBON RESISTOR 22K 5% 1/6W			C 913 QFLC1HJ-6832M	M CAPACITOR	.068MF 5% 50V
R	928	QBD167J-682	CARBON RESISTOR 6.8K 5% 1/6W			C 914 QFLC1HJ-6832M	M CAPACITOR	.068MF 5% 50V
R	929	QBD167J-332	CARBON RESISTOR 3.3K 5% 1/6W			C 915 QFLC1HJ-6832M	M CAPACITOR	.068MF 5% 50V
R	930	QBD167J-682	CARBON RESISTOR 6.8K 5% 1/6W			C 916 QFLC1HJ-6832M	M CAPACITOR	.068MF 5% 50V
R	979	QBD161J-471	CARBON RESISTOR 470 5% 1/6W			C 917 QEN1JM-476Z	E CAPACITOR	4.7MF 20% 63V
R	980	QBD161J-104	CARBON RESISTOR 100K 5% 1/6W			C 918 QET41HM-226	E CAPACITOR	2.2MF 20% 50V
T	1	VQ17F12-110	IFT			C 919 QETB1JM-107	E CAPACITOR	100MF 20% 63V
T	2	VQ17A21-111	IFT			C 922 QET41HM-226	E CAPACITOR	22MF 20% 50V
X	1	VCX5044-001	CRYSTAL			C 923 QCUB1CN-103Y	C. CAPACITOR	.010MF 30% 16V
						C 924 QET41HM-475	E CAPACITOR	4.7MF 20% 50V
						C 925 QFLC1HJ-1042M	M CAPACITOR	.10MF 5% 50V
						C 926 QFLC1HJ-1042M	M CAPACITOR	.10MF 5% 50V
						C 927 QFLC1HJ-1042M	M CAPACITOR	.10MF 5% 50V
						C 928 QFLC1HJ-1042M	M CAPACITOR	.10MF 5% 50V
						C 929 QCS11HJ-100	C. CAPACITOR	10PF 5% 50V
						C 930 QCS11HJ-100	C. CAPACITOR	10PF 5% 50V
						C 931 QET41HM-476	E CAPACITOR	4.7MF 20% 50V
						C 932 QET41HM-476	E CAPACITOR	4.7MF 20% 50V
						C 933 QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V
						C 934 QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V
						C 935 QTE1106-1062	E. CAPACITOR	100PF 10% 50V
						C 936 QTE1106-1062	E. CAPACITOR	100PF 10% 50V
						C 937 QETN1HM-1062	E. CAPACITOR	10MF 20% 50V
						C 938 QETN1HM-1062	E. CAPACITOR	10MF 20% 50V
						C 939 QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V
						C 940 QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V
						C 941 QET41HM-226	E CAPACITOR	2.2MF 20% 50V
						C 942 QET41HM-226	E CAPACITOR	2.2MF 20% 50V
						C 943 QET41HM-105	E CAPACITOR	1.0MF 20% 50V
						C 944 QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V
						C 945 QET41CM-226	E CAPACITOR	2.2MF 20% 16V
						C 946 QET41CM-226	E CAPACITOR	2.2MF 20% 16V
						C 947 QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V
						C 948 QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V
						C 949 QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V
						C 950 QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V
						C 951 QET41HM-105	E CAPACITOR	1.0MF 20% 50V
						C 952 QCF110P-223	C. CAPACITOR	.022MF 100% -0%
						C 953 QETN1HM-1062	E. CAPACITOR	10MF 20% 50V
						C 954 QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V
						C 955 QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V
						C 956 QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V
						C 957 QFLC1HJ-1042M	M CAPACITOR	.10MF 20% 50V
						C 958 QCY31UK-2722	C. CAPACITOR	2700PF 10% 50V
						C 959 QCY31UK-2722	C. CAPACITOR	2700PF 10% 50V
						CN900 EMV7125-013R	CONNECTOR	B/E-EN/G
						CN901 EMV7125-008R	CONNECTOR	B/E-EN/G
						CN902 EMV714-004Z	CONNECTOR	B/E-EN/G
						CN903 EMV714-004Z	CONNECTOR	B/E-EN/G
						CN904 EMV714-005Z	CONNECTOR	B/E-EN/G

BLOCK NO. 02111111

BLOCK NO. 02111111

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN905	EMV745-0052	CONNECTOR		
D 900	1MT133	DIODE		
D 901	1MT29-1JA	ZENER DIODE		
D 902	1SR35-100	SI.DIODE		
D 903	1SR35-100	SI.DIODE		
D 908	1NS5401TM	SI.DIODE		
D 909	1NS5401TM	SI.DIODE		
D 910	1NS5401TM	SI.DIODE		
D 910	1NS5401TM	SI.DIODE		
D 911	1NS5401TM	SI.DIODE		
D 916	1SR139-200	DIODE		
D 917	1SR139-200	DIODE		
D 918	MT231JC	ZENER DIODE		
D 919	MT26-2JAT-77	ZENER DIODE		
D 920	MT221JC	ZENER DIODE		
D 921	1SS133	DIODE		
D 922	1SS133	DIODE		
D 923	1SS133	DIODE		
D 924	1SS133	DIODE		
D 926	M215-1JCT-77	ZENER SIODE		
EP901	E409182-001SM	GRAND TERMINAL		
F1001	EMG7331-0032	FUSE CLIP	U,UB,UP-US,U	
F1002	EMG7331-0032	FUSE CLIP	U,UB,UP-US,U	
F1003	EMG7331-0032	FUSE CLIP	U,UB,UP-US,U	
F1004	EMG7331-0032	FUSE CLIP	U,UB,UP-US,U	
F1005	EMG7331-0032	FUSE CLIP	U,UB,UP-US,U	
F1006	EMG7331-0032	FUSE CLIP	U,UB,UP-US,U	
F1007	EMG7331-0032	FUSE CLIP	U,UB,UP-US,U	
F1008	EMG7331-0032	FUSE CLIP	U,UB,UP-US,U	
F1099	EWR9D-25LS	CORD		
IC900	TDA7295	IC		
IC901	TDA7295	IC		
J901	FMJJ003-001	TERMINAL		
L 900	EQL0011-R5J1	INDUCTOR		
L 901	EQL0011-R5J1	INDUCTOR	B,E,EN,G B,E,EN,G	
L 942	VQZ2104-005	INDUCTOR		
L 971	VQZ2104-003	INDUCTOR		
Q 901	2SA1175	TRANSISTOR		
Q 902	DTC144TSTP	TRANSISTOR		
Q 903	DIA144TSTP	TRANSISTOR		
Q 904	2SC375	TRANSISTOR		
Q 905	2SC2785	TRANSISTOR		
Q 906	2SC2785	TRANSISTOR		
Q 911	2SA134 (Q,R)	TRANSISTOR		
Q 912	DA114ES	TRANSISTOR		
Q 917	2SC945A	TRANSISTOR		
Q 918	2SC945A	TRANSISTOR		
Q 919	2SA933(S)	TRANSISTOR		
Q 920	2SC945A	TRANSISTOR		
Q 921	2SD2144S(CW)	TRANSISTOR		
Q 922	2SD2144S(CW)	TRANSISTOR		
Q 923	DTC114YSTP	TRANSISTOR		
Q 924	DTC114YSTP	TRANSISTOR		
R 900	GRD161J-471	CARBON RESISTOR	470 5% 1/6W	

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 901	GRD161J-702	CARBON RESISTOR	1.0K 5% 1/6W	
R 902	GRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R 903	GRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R 904	GRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R 905	GRD167-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 906	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R 907	GRD161J-821	CARBON RESISTOR	820 5% 1/6W	
R 908	GRZ0077-151X	F.RESISTOR	150 5% 1/0W	
R 909	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 910	GRD161J-471	CARBON RESISTOR	470 5% 1/0W	
R 911	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 912	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 913	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 914	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 915	GRZ0077-100X	FUSE RESISTOR	10 1/0W	
R 916	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 931	GRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R 933	GRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R 935	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 936	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 937	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R 938	GRD161J-330	CARBON RESISTOR	330 5% 1/6W	
R 939	GRG01D-471X	OMF RESISTOR	470 5% 1/1W	
R 940	GRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
R 941	GRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
R 942	GRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
R 943	GRD14CJ-100SX	CARBON RESISTOR	10 5% 1/4W	
R 944	GRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
R 945	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 946	GRX014J-R22	UNF.M.E. RESISTOR	5K 1/1W	
R 947	GRX014J-R22	UNF.M.E. RESISTOR	5K 1/1W	
R 948	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R 949	GRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R 950	GRD161J-104	CARBON RESISTOR	10K 5% 1/6W	
R 951	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 952	GRD14J-561	UNF.C.RESISTOR	560 5% 1/4W	
R 953	GRD14J-561	UNF.C.RESISTOR	560 5% 1/4W	
R 954	GRD16J-104	CARBON RESISTOR	100K 5% 1/6W	
R 955	GRD16J-104	CARBON RESISTOR	100K 5% 1/6W	
R 956	GRD16J-223	CARBON RESISTOR	22K 5% 1/6W	
R 957	GRD16J-102	CARBON RESISTOR	10K 5% 1/6W	
R 958	GRZ0077-4R2	FUSE RESISTOR	4.7 1/0W	
R 959	GRD16J-104	CARBON RESISTOR	100K 5% 1/6W	
R 960	GRD16J-123	CARBON RESISTOR	120K 5% 1/6W	
R 961	GRD16J-104	CARBON RESISTOR	100K 5% 1/6W	
R 962	GRD16J-103	CARBON RESISTOR	10K 5% 1/6W	
R 963	GRD16J-122	CARBON RESISTOR	12K 5% 1/6W	
R 964	GRD16J-681	CARBON RESISTOR	680 5% 1/6W	
R 965	GRD16J-681	CARBON RESISTOR	680 5% 1/6W	
R 966	GRD16J-821	CARBON RESISTOR	820 5% 1/6W	
R 967	GRD16J-821	CARBON RESISTOR	820 5% 1/6W	
R 968	GRD16J-103	CARBON RESISTOR	10K 5% 1/6W	
R 969	GRD16J-103	CARBON RESISTOR	10K 5% 1/6W	
R 971	GRD16J-563	CARBON RESISTOR	56K 5% 1/6W	
R 972	GRD16J-563	CARBON RESISTOR	56K 5% 1/6W	

■ System CPU & Operation Switch Board

LOCK NO. 021111

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 461	QEKB1HM-476	E.CAPACITOR	47MF 20% 16V	
C 462	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 701	QEKS1HM-226	E.CAPACITOR	22MF 20% 50V	
C 702	QEKS1HM-226	E.CAPACITOR	22MF 20% 50V	
C 703	QFV71HK-124ZM	FILM CAPACITOR	.12MF 5% 50V	
C 704	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 705	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 708	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 709	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 710	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 713	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 714	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 715	QEER41CM-106	E.CAPACITOR	10MF 20% 16V	
C 716	QEKR41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
C 717	QEKF61AM-127ZM	E.CAPACITOR	220MF 20% 10V	
C 718	QEKF60JM-107ZM	E.CAPACITOR	100MF 20% 6.3V	
C 719	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 720	QS111HJ-220	C.CAPACITOR	22PF 5% 50V	
C 721	QS111HJ-220	C.CAPACITOR	22PF 5% 50V	
C 722	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 723	QS511HJ-190Z	C.CAPACITOR	39PF 5% 50V	
C 724	QS511HJ-180	C.CAPACITOR	18PF 5% 50V	
C 725	QS111HJ-220	C.CAPACITOR	22PF 5% 50V	
C 726	QS531HJ-390Z	C.CAPACITOR	39PF 5% 50V	
C 727	QS111HJ-102Y	C.CAPACITOR	1000PF 10% 50V	
C 728	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 730	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 731	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
C 732	QEKS1HM-227ZM	E.CAPACITOR	220MF 20% 10V	
C 733	QCUB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C 734	QCUB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C 735	QEKB1HK-476	E.CAPACITOR	47MF 20% 16V	
C 737	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 840	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 841	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 842	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 850	QEETC1HM-224Z	E.CAPACITOR	.22MF 20% 50V	B-E,EN,G
C 851	EETB1HM-475E	E.CAPACITOR		
C 852	EETB1HM-226E	M.CAPACITOR	.10MF 5% 50V	
C 853	QEFLC1HM-104ZM	M.CAPACITOR	.47MF 20% 50V	
C 854	QEETB1HM-474N	E.CAPACITOR		
C 855	QCXB1CM-562Y	C.CAPACITOR	.5600PF 20% 16V	
C 856	QCGBB1HK-821	C.CAPACITOR	.820PF 10% 50V	
C 857	QEFLC1HM-183ZM	M.CAPACITOR	.018MF 5% 50V	
C 858	QEFLC1HM-104ZM	M.CAPACITOR	.10MF 5% 50V	
C 859	QEFLC1HK-106ZM	M.CAPACITOR	.6800PF 20% 16V	
C 860	QCXB1CM-628Y	C.CAPACITOR	.018MF 5% 50V	
C 861	QEFLC1HM-183ZM	M.CAPACITOR	.22MF 20% 50V	
C 862	QETCHHM-224Z	E.CAPACITOR	.22MF 20% 50V	
C 863	QEFLC1HM-104ZM	M.CAPACITOR	.10MF 5% 50V	
C 864	QEFLC1HM-474	E.CAPACITOR	.47MF 20% 50V	
C 865	QEFLC1HM-474	E.CAPACITOR	.5600PF 20% 16V	
C 866	QCXB1CM-562Y	C.CAPACITOR	.820PF 10% 50V	
C 867	QCGBB1HK-821	C.CAPACITOR	.220PF 10% 50V	
C 868	QCBB1HK-221Y	C.CAPACITOR	.220PF 10% 50V	
C 869	QCBB1HK-221Y	C.CAPACITOR	.220PF 10% 50V	

REF.		PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 051111
Q 470	DTC114ESTP	TRANSISTOR				
Q 471	DTC114ESTP	TRANSISTOR				
Q 472	DTA114ES	TRANSISTOR				
Q 473	DTA114ES	TRANSISTOR				
Q 703	SC2785	TRANSISTOR				
Q 704	DTC114STP	TRANSISTOR				
	Q 705 2SA1175	TRANSISTOR				
	Q 706 2SC2668(C)	TRANSISTOR				
	Q 707 2SC2668(C)	TRANSISTOR				
	Q 710 DTC114STP	TRANSISTOR				
Q 711	2SD2144S (VW)	TRANSISTOR				
Q 711	2SC945(P,Q)	TRANSISTOR				
Q 772	2SC945(P,Q)	TRANSISTOR				
Q 773	2SC945(P,Q)	TRANSISTOR				
Q 850	DTC114ES	D. TRANSISTOR				
Q 851	2SD2144S (VW)	TRANSISTOR				
R 470	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R 471	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W			
R 472	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W			
R 473	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 474	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W			
R 475	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W			
R 476	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W			
R 477	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R 478	QRD161J-473	CARBON RESISTOR	18K 5% 1/6W			
R 479	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W			B, E, EN, G
R 480	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R 481	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W			
R 482	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W			
R 484	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R 486	QRD161J-271	CARBON RESISTOR	270 5% 1/6W			
R 487	QRD161J-271	CARBON RESISTOR	270 5% 1/6W			
R 488	QRD161J-271	CARBON RESISTOR	270 5% 1/6W			
R 489	QRD161J-271	CARBON RESISTOR	270 5% 1/6W			
R 490	QRD161J-301	CARBON RESISTOR	300 5% 1/6W			
R 491	QRD161J-301	CARBON RESISTOR	300 5% 1/6W			
R 492	QRD161J-301	CARBON RESISTOR	300 5% 1/6W			
R 493	QRD161J-301	CARBON RESISTOR	300 5% 1/6W			
R 494	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 495	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W			
R 496	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R 499	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W			
R 693	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W			
R 694	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 695	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W			
R 696	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R 697	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W			
R 698	QRD161J-753	CARBON RESISTOR	5.6K 5% 1/6W			
R 700	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R 701	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 702	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 703	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 704	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 705	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 707	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R 708	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			
R 709	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W			

REF.		PARTS NO.	PARTS NAME	REMARKS	BLOCK NO. 03	SUFFIX
C 870	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	U,UB,UP,US,U		
C 871	QCFLC11K-1032M	M CAPACITOR	.010MF 5% 50V	U,UB,UP,US,U		
C 872	ETB1HM-475E	E.CAPACITOR	220MF 20% 10V	U,UB,UP,US,U		
C 873	QET41AM-227	E.CAPACITOR	220MF 20% 10V	U,UB,UP,US,U		
C 874	ETTB1AM-107E	E.CAPACITOR				
C 875	QCBB1HK-475E	C.CAPACITOR	150PF 10% 50V	U,UB,UP,US,U		
C 876	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	U,UB,UP,US,U		
C 878	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	U,UB,UP,US,U		
C 879	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	U,UB,UP,US,U		
C 880	QETC11M-2252M	E.CAPACITOR	2.2MF 20% 50V	U,UB,UP,US,U		
C 883	QET41AM-107	E.CAPACITOR	100MF 20% 16V	U,UB,UP,US,U		
C 884	QET41CM-227	E.CAPACITOR	220MF 20% 16V	U,UB,UP,US,U		
CN700	EMV7160-011	CONNECTOR				
CNQ01	WMC0163-R22	CONNECTOR				
CNB80	EMV5125-004R	CONNECTOR				
CNB82	EMV5125-004	CONNECTOR				
D 411	SLR-342MCA47	LED				
D 412	SLR-442MCA47	LED				
D 413	SLR-342MCA47	LED				
D 414	SLR-442MCA47	LED				
D 415	SLR-342MCA47	LED				
D 701	ISS133	SI DIODE				
D 702	ISS133	SI DIODE				
D 703	ISS133	SI DIODE				
D 704	ISS133	SI DIODE				
D 705	MT25-JAT-77	ZENR DIODE				
D 706	ISS133	SI DIODE				
D 850	MT25-1JB	ZENR DIODE				
D 851	ISS133	SI DIODE				
FL701	QLF0021-001	FL TUBE				
FW700	VWS002-1032K	TM FLAT				
FW701	VWS006-0932K	EF FLAT WIRE				
FW702	VWS006-0932K	EF FLAT WIRE				
FW852	EWR5D-30LS	FLAT WIRE				
IC404	GP11261X	IR DETECT UNIT				
IC701	UPD0844FGF-055	IC				
IC850	BA7725S	IC				
IC851	BU9251S	IC				
IC852	IC15218N	IC				
J 850	VM14024-001	JACK	HEAD PHONE			
J 851	QNS0007-002	6.3 JACK	MIC JACK			
J 852	QNS0007-002	6.3 JACK	MIC JACK			
J 853	QSM053-001	ROTARY ENCODER				
L 701	VQP0026-470	INDUCTOR				
L 702	VQP0026-470Z	INDUCTOR				
L 703	VQP0033-10Z	INDUCTOR				
L 704	VQP0018-4R7	INDUCTOR				
L 705	VQP0018-4R7	INDUCTOR				
L 706	VQP0033-10Z	INDUCTOR				
L 707	VQP0033-10Z	INDUCTOR				
L 708	VQP0018-220	INDUCTOR				
L 709	VQP0048-059	INDUCTOR				
L 840	EQL4007-21R2T	INDUCTOR				
L 841	VQP0018-470	INDUCTOR				
			HP GND D401T)			
			EMC			
			EMC			
			B/E, E/N, G			
			B/E, E/N, G			

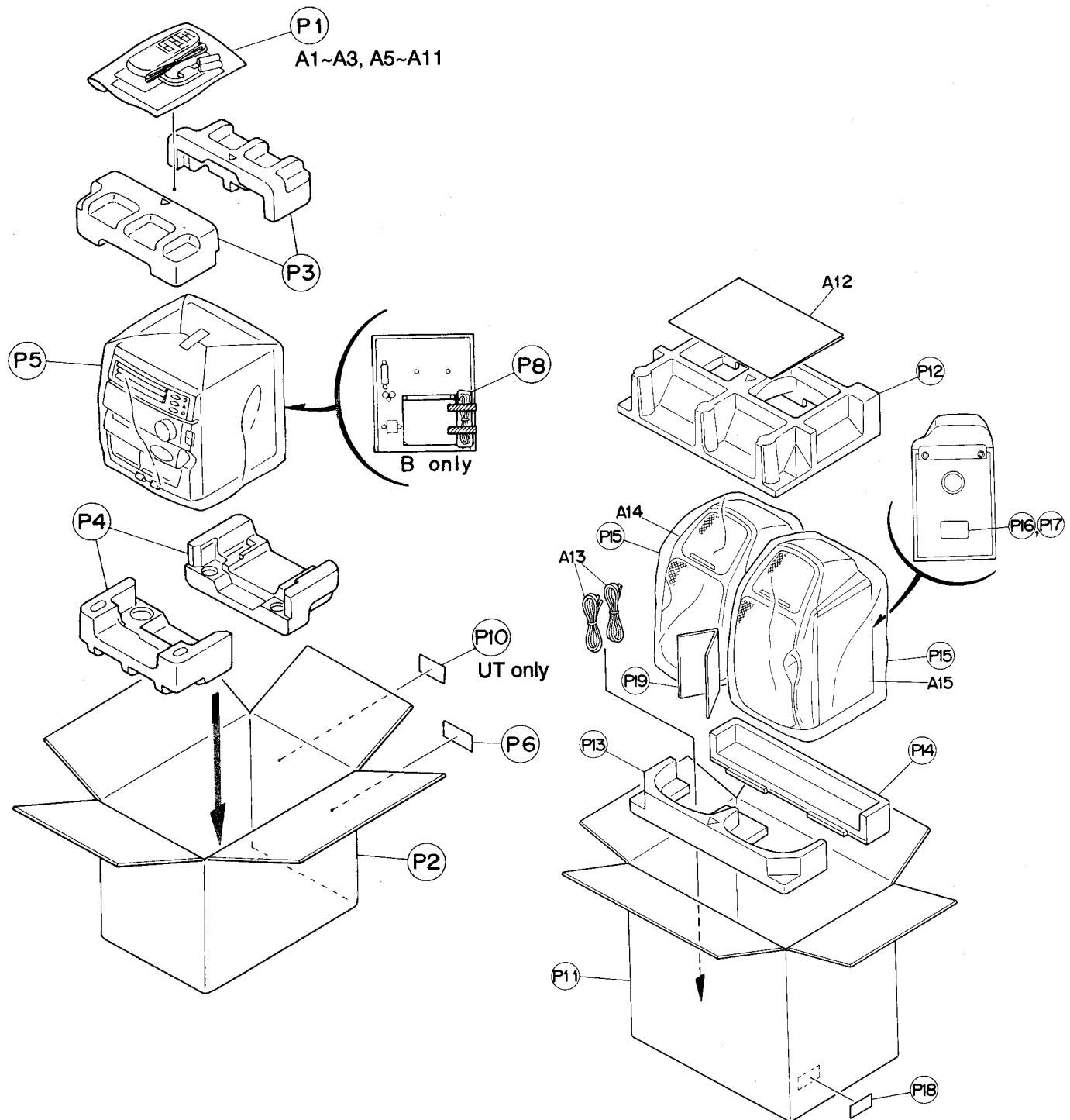
BLOCK NO. 05111111

BLOCK NO. 05111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 710	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 770	GRD161J-223	CARBON RESISTOR	22K 5%	1/6W	
R 711	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 771	GRD161J-223	CARBON RESISTOR	22K 5%	1/6W	
R 712	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 772	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 713	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 773	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 714	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 774	GRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W	
R 715	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 775	GRD161J-331	CARBON RESISTOR	330 5%	1/6W	
R 716	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 776	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 717	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 777	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W	
R 718	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 778	GRD161J-224	CARBON RESISTOR	220K 5%	1/6W	
R 719	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 779	GRD161J-105	CARBON RESISTOR	1.0M 5%	1/6W	
R 720	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 780	GRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W	
R 721	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 781	GRD161J-822	CARBON RESISTOR	8.2K 5%	1/6W	
R 722	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 782	GRD161J-822	CARBON RESISTOR	8.2K 5%	1/6W	
R 723	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 783	GRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W	
R 724	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 784	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W	
R 725	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 785	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 726	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 786	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 727	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 787	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 728	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 788	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W	
R 729	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 789	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W	
R 730	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 790	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W	
R 731	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 791	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W	
R 732	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 792	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W	
R 733	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 793	GRD161J-122	CARBON RESISTOR	1.2K 5%	1/6W	
R 734	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 794	GRD161J-152	CARBON RESISTOR	1.5K 5%	1/6W	
R 735	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 795	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W	
R 736	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 796	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W	
R 737	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 797	GRD161J-392	CARBON RESISTOR	3.9K 5%	1/6W	
R 738	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 798	GRD161J-562	CARBON RESISTOR	5.6K 5%	1/6W	
R 739	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W		R 800	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 740	GRD161J-224	CARBON RESISTOR	220K 5%	1/6W		R 801	GRD161J-473	CARBON RESISTOR	4.7K 5%	1/6W	
R 741	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W		R 840	GRD161J-72	CARBON RESISTOR	7.2K 5%	1/6W	
R 742	GRD161J-224	CARBON RESISTOR	220K 5%	1/6W		R 841	GRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W	
R 743	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W		R 850	GRD161J-123	CARBON RESISTOR	1.0K 5%	1/6W	
R 744	GRD161J-224	CARBON RESISTOR	220K 5%	1/6W		R 851	GRD161J-333	CARBON RESISTOR	33K 5%	1/6W	
R 745	GRD161J-473	CARBON RESISTOR	4.7K 5%	1/6W		R 852	GRD161J-133	CARBON RESISTOR	12K 5%	1/6W	
R 746	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 853	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 747	GRD161J-103	CARBON RESISTOR	1.0K 5%	1/6W		R 854	GRD161J-133	CARBON RESISTOR	10K 5%	1/6W	
R 748	GRD161J-103	CARBON RESISTOR	1.0K 5%	1/6W		R 855	GRD161J-133	CARBON RESISTOR	10K 5%	1/6W	
R 749	GRD161J-103	CARBON RESISTOR	1.0K 5%	1/6W		R 856	GRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W	
R 750	GRD161J-103	CARBON RESISTOR	1.0K 5%	1/6W		R 857	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 751	GRD161J-103	CARBON RESISTOR	1.0K 5%	1/6W		R 858	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 752	GRD161J-22	CARBON RESISTOR	2.2K 5%	1/6W		R 859	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W	
R 753	GRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W		R 860	GRD161J-331	CARBON RESISTOR	330 5%	1/6W	
R 754	GRD161J-472	CARBON RESISTOR	4.7K 5%	1/6W		R 861	GRD161J-682	CARBON RESISTOR	6.8K 5%	1/6W	
R 755	GRD161J-104	CARBON RESISTOR	100K 5%	1/6W		R 862	GRD161J-105	CARBON RESISTOR	1.0M 5%	1/6W	
R 756	GRD161J-104	CARBON RESISTOR	100K 5%	1/6W		R 863	GRD161J-123	CARBON RESISTOR	12K 5%	1/6W	
R 757	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W		R 864	GRD161J-391	CARBON RESISTOR	390 5%	1/6W	
R 758	GRD161J-103	CARBON RESISTOR	10K 5%	1/6W		R 865	GRD161J-132	CARBON RESISTOR	1.5K 5%	1/6W	
R 759	GRD161J-273	CARBON RESISTOR	27K 5%	1/6W		R 866	GRD161J-475	CARBON RESISTOR	4.7M 5%	1/6W	
R 760	GRD161J-563	CARBON RESISTOR	56K 5%	1/6W		R 867	GRD161J-475	CARBON RESISTOR	4.7M 5%	1/6W	
R 761	GRD161J-103	CARBON RESISTOR	100K 5%	1/6W		R 868	GRD161J-475	CARBON RESISTOR	4.7M 5%	1/6W	
R 762	GRD161J-104	CARBON RESISTOR	27K 5%	1/6W		R 869	GRD161J-475	CARBON RESISTOR	4.7M 5%	1/6W	
R 763	GRD161J-273	CARBON RESISTOR	330 5%	1/6W		R 870	GRD161J-273	CARBON RESISTOR	27K 5%	1/6W	
R 764	GRD161J-273	CARBON RESISTOR	27K 5%	1/6W		R 871	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W	
R 765	GRD161J-331	CARBON RESISTOR	330 5%	1/6W		R 872	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W	
R 766	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 873	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W	
R 767	GRD161J-102	CARBON RESISTOR	1.0K 5%	1/6W		R 874	GRD161J-561	CARBON RESISTOR	560 5%	1/6W	
R 768	GRD161J-560	CARBON RESISTOR	56 5%	1/6W							
R 769	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W							
R 770	GRD161J-222	CARBON RESISTOR	2.2K 5%	1/6W							

BLOCK NO. 031000				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 875	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	U-UB,UP-US,U
R 876	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	U-UB,UP-US,U
R 877	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	U-UB,UP-US,U
R 878	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	U-UB,UP-US,U
R 879	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	U-UB,UP-US,U
R 880	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	U-UB,UP-US,U
R 881	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	U-UB,UP-US,U
R 882	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	U-UB,UP-US,U
RA700	QRB159J-224	NET RESISTOR	220K 5% 1/3W	U-UB,UP-US,U
RA701	QRB159J-224	R.NETWORK	220K 5% 1/4W	
S 406	QSQ1A11-V042	TACT SWITCH		
S 407	QSQ1A11-V042	TACT SWITCH		
S 408	QSQ1A11-V042	TACT SWITCH		
S 409	QSQ1A11-V042	TACT SWITCH		
S 414	QSQ1A11-V042	TACT SWITCH		
S 415	QSQ1A11-V042	TACT SWITCH		
S 416	QSQ1A11-V042	TACT SWITCH		
S 417	QSQ1A11-V042	TACT SWITCH		
S 418	QSQ1A11-V042	TACT SWITCH		
S 422	QSQ1A11-V042	TACT SWITCH		
S 423	QSQ1A11-V042	TACT SWITCH		
S 424	QSQ1A11-V042	TACT SWITCH		
S 425	QSQ1A11-V042	TACT SWITCH		
S 426	QSQ1A11-V042	TACT SWITCH		
S 700	QSQ1A11-V042	TACT SWITCH		
S 701	QSQ1A11-V042	TACT SWITCH		
S 702	QSQ1A11-V042	TACT SWITCH		
S 703	QSQ1A11-V042	TACT SWITCH		
S 704	QSQ1A11-V042	TACT SWITCH		
S 705	QSQ1A11-V042	TACT SWITCH		
S 706	QSQ1A11-V042	TACT SWITCH		
S 707	QSQ1A11-V042	TACT SWITCH		
S 708	QSQ1A11-V042	TACT SWITCH		
S 709	QSQ1A11-V042	TACT SWITCH		
S 714	QSQ1A11-V042	TACT SWITCH		
S 715	QSQ1A11-V042	TACT SWITCH		
SP701	VYH7053-001	IC HOLDER		
VR800	QVQ0045-B54	V RESISTOR	MIC VR	U-UB,UP-US,U
X 701	VCX2000-002	CRYSTAL		
X 702	M224.19	CEPA LOCK		
X 850	ECX000-400KS	RESONATOR		U-UB,UP-US,U

14.Packing



■ Packing Parts List (B/E/EN/G/VX Version)

BLOCK NO. M6MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	E309758-002	POLY BAG	FOR INSTRUCTION	1		
	P 2	FMPC9004-001	CARTON ASSY	FOR SET	1	B,E,EN,G	
		FMPC9004-002	CARTON ASSY	FOR SET	1	U,UP,UB,US,U	
	P 3	FMPH1013-001	CUSHION	FOR SET, UPPER	1		
	P 4	FMPH1014-001	CUSHION	FOR SET, BOTTOM	1		
	P 5	E309758-017	POLY BAG	FOR SET	1		
	P 6	-----	COMPUTER LABEL		1		
	P 8	QPGA010-01505	POLY BAG	FOR POWER CORD	1	B,UB	
	P 10	FMND3007-007	RATING LABEL		1	UT	
	P 11	E307733-166	CARTON ASSY	SPEAKER	1		
	P 12	E103116-001	CUSHION	SPEAKER TOP	1		
	P 13	E208754-001	CUSHION	SP BOTTOM FRONT	1		
	P 14	E208754-002	CUSHION	SP BOTTOM REAR	1		
	P 15	E309822-016	POLY BAG	SPEAKER	2		
	P 16	LE40198-007A	RATING LABEL	RIGHT SPEAKER	1		
	P 17	LE40198-008A	RATING LABEL	LEFT SPEAKER	1		
	P 18	-----	CARTON LABEL	SPEAKER	1		
	P 19	E409074-001	CARTON SHEET	SPEAKER	1		

■ Accessories Parts List (B/E/EN/G/VX Version)

BLOCK NO. M7MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	EQB4001-015	AM LOOP ANT		1		
	A 2	FMUN9003-671M	INSTRUCTIONS		1	B	
		FMUN9003-251M	INSTRUCTIONS		1	E	
		FMUN9003-261M	INSTRUCTIONS		1	E,EN,G	
		FMUN9003-271M	INSTRUCTIONS		1	EN	
	A 3	FMUN9002-181M	INSTRUCTIONS		1	U,UB,US,UT	
		FMUN9002-151M	INSTRUCTIONS		1	UP	
	A 5	EWP503-001	ANTENNA WIRE		1	B,E,EN,G	
		EWP201-011	ANTENNA WIRE		1	U,UB,UP,US,U	
	A 6	BT-54003-1	WARRANTY CARD		1	B	
		BT-20134	WARRANTY CARD		1	G	
		BT-56004-4	WARRANTY CARD		1	UP	
	A 7	BT-20066A	SERVICE NETWORK		1	B	
	A 8	E43486-340A	SAFETY SHEET		1	B	
		RM-SED40TEU	REMOCON		1	B,E,EN,G	
	A 9	RM-SED50TXU	REMOCON		1	U,UB,UP,US,U	
	A 10	R6PPTT-2STSM	BATTERY		1		
	A 11	ENZ2202-001	AC PLUG ADAPTER		1	US	
	A 12	VMZ0139-001	CONNECT PLUG		1	U,UT	
		LET0058-001A	INSTRUCTIONS(E)	SPEAKER	1		
	A 13	LET0057-001A	INSTRUCTIONS(U)	SPEAKER	1		
	A 14	E407448-001	SPEAKER CORD		2		
		-----	SPEAKER ASS'Y	LEFT	1		
	A 15	-----	SPEAKER ASS'Y	RIGHT	1		

MX-D501T

JVC

VICTOR COMPANY OF JAPAN LIMITED

AUDIO DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan

(No. 10049)

 Printed in Japan
-H0907-V-