

# JVC

## SERVICE MANUAL

### CD PORTABLE SYSTEM

## RC-NX1 C/J



COMPACT  
disc  
DIGITAL AUDIO

#### Area Suffix

C ..... Canada  
J ..... U.S.A

#### ■ Self-diagnosis function

This model has a convenient self-diagnosis function for CD section.

- This model is divided by two colors to the Gray (GR) and white (WT) types (In the parts list, both of the types are indicated by abbreviations (GR) and (WT)).

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## Safety Precautions

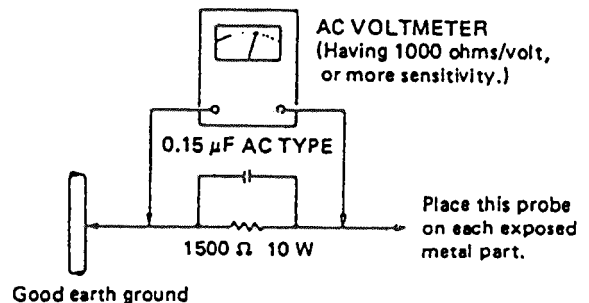
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original 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 shading (■) and (▲) 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, mpving 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 exposeed 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 must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).



	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p><b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



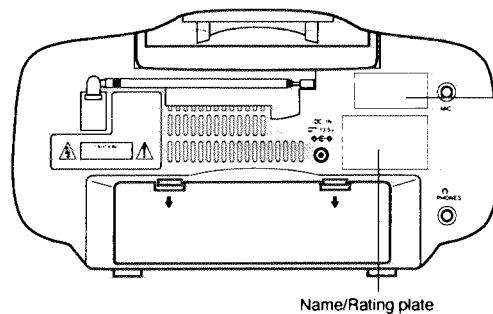
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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.

## J (USA) Only Important for Laser Products

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 bottom 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 vent emission of radiation when unloading cartridge and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
6. CAUTION: The laser is able to function, if safety switches are out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.




US JVC CORP. 41SLATER DRIVE ELMWOOD PARK, N.J. 07407  
 MANUFACTURED AT \*2  
 Product complies with DHHS Rules 21 CFR  
 Subchapter J in effect at date of manufacture.  
 MANUFACTURED  
 \*1

**Notes:**

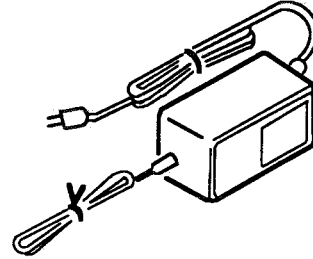
- \* 1 The date of manufacture.
- \* 2 The ID code of manufacturing plant.

■ Major safety control points for RC - NX1

■ Main safety control points

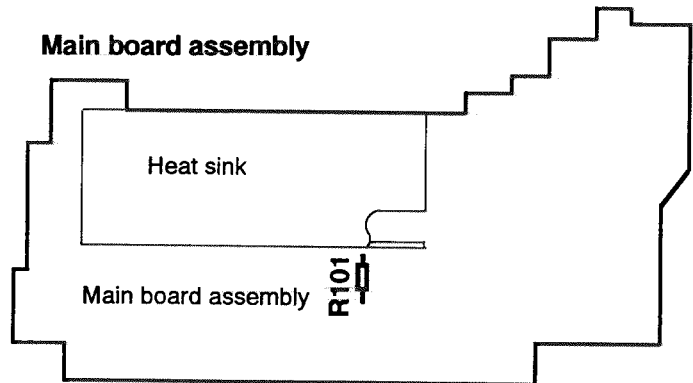
- ◆ Confirm that the model number of AC adapter is AA-R1206J.
- ◆ Confirm that the type approval mark is .
- ◆ Confirm that the AC adapter cord mark is STP-2
- ◆ Confirm that the AC plug mark is SD-608P

AC adapter

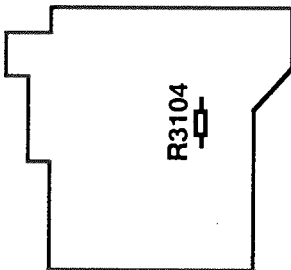


- ◆ The following parts are exothermic.  
Confirm that the non-combustible parts are free from lift-up or falling.
- The parts in    are out of the scope of safety control.
- IC602, R101, IC703, Q631, R3104, Q908, Q904, IC301, D901, R315, R201, Q906, R311, R912, heat sink.

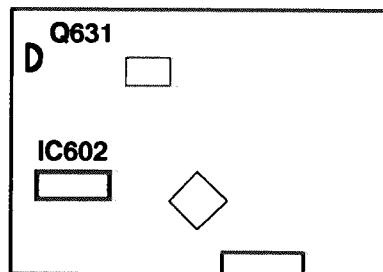
Main board assembly



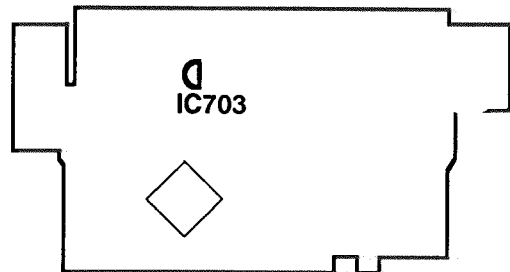
Preamplifier P. C. board assembly



CD P. C. board assembly



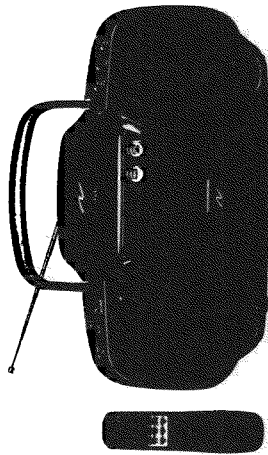
Microprocessor P. C. board assembly



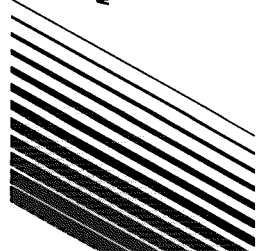


**CD PORTABLE SYSTEM**  
**SISTEMA PORTATIL CON TOCADISCOS COMPACTO**  
**CHAINE PORTABLE A CD**

**RC-NX1 C/J**



**COMPACT**  
**disc**  
**DIGITAL AUDIO**



**INSTRUCTIONS**

**INSTRUCCIONES**  
**MANUEL D'INSTRUCTIONS**

**For Customer Use:**  
 Enter below the Model No. and Serial No. which are located on the rear of the cabinet. Retain this information for future reference.

Model No. \_\_\_\_\_  
 Serial No. \_\_\_\_\_

**ENGLISH**

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit.



Le agradecemos la adquisición de este producto de JVC. Por favor lea detenidamente las instrucciones antes de comenzar la operación para obtener de esta unidad un rendimiento óptimo y una vida de servicio más larga.

**ESPAÑOL**

**FRANÇAIS**

Nous vous remercions d'avoir acheté cet appareil de JVC. Veuillez lire attentivement ce manuel d'instructions avant de commencer à faire fonctionner l'appareil de façon à être sûr d'obtenir les performances optimales et une durée de vie plus longue de cet appareil.

**Instructions**

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**WARNING:**  
 TO REDUCE THE RISK OF FIRE OR  
 ELECTRICAL SHOCK, DO NOT EXPOSE  
 THIS APPLIANCE TO RAIN OR  
 MOISTURE.

**CAUTION**  
 RISK OF ELECTRIC SHOCK  
 DO NOT REMOVE COVER (OR BACK)  
 NO USER SERVICEABLE PARTS INSIDE  
 REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

**INFORMATION (For U.S.A.)**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses frequency modulation which may cause radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is advised to take one or more of the following measures:

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**ADVERTENCIA:**  
 PARA REDUCIR EL RIESGO DE  
 INCENDIO O DE CHOQUES  
 ELECTRICOS, NO EXPONGA ESTE  
 APARATO A LA LLUVIA O A LA  
 HUMEDAD.

**CAUTION**  
 RISK OF ELECTRIC SHOCK  
 DO NOT REMOVE COVER (OR BACK)  
 NO USER SERVICEABLE PARTS INSIDE  
 REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

Reorient or relocate the receiving antenna.  
 - Increase the separation between the equipment and receiver.  
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.  
 - Consult the dealer or an experienced radio/TV technician for help.

**SOMMAIRE**

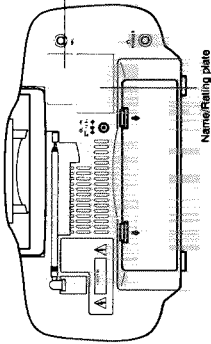
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**AVERTISSEMENT:**  
 POUR REDUIRE LES RISQUES  
 D'INCENDIE OU D'ELECTROCUTION,  
 NE PAS EXPOSER L'APPAREIL A LA  
 PLUIE NI A L'HUMIDITE.

**IMPORTANT FOR LASER PRODUCTS**  
(For U.S.A. only)

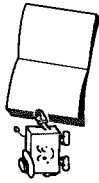
**PRECAUTIONS**

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. The CD player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD door 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.



**Notes:**  
 • 1 The date of manufacture  
 • 2 The ID code of manufacturing plant.

**IDENTIFICATION LABEL AND CERTIFICATION LABEL**



**SAFETY PRECAUTIONS**

**Prevention of Electric Shocks, Fire Hazards and Damage**

1. Always push the POWER button. It is set to STANDBY. A very small current will flow to save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
2. Do not handle the power cord with wet hands.
3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Consult your nearest dealer when damage, disconnection, or contact failure affects the cord.
5. Do not bend the cord severely, or pull or twist it.
6. Do not modify the power cord in any manner.
7. To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
8. Do not insert any metallic objects into the unit.
9. Unplug the power cord when there is a lightning storm.
10. If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
11. Do not block the unit's ventilation holes that allow heat to escape. Do not install the unit in a badly ventilated place.

**FEATURES**

- One-touch operation (COMPU PLAY) (only when AC power is used)
- 23-key remote control unit operates all CD, LaserDisc and tuner functions
- Repeat Play
- Skip/Search Play
- Random Play
- U-Turn auto-reverse (full-logic mechanism)
- Auto tape select mechanism
- Metal (type IV) and CrO<sub>2</sub> (type II) tape can be played back for superior tone quality.
- CrO<sub>2</sub> (type II) tape recording capability.
- 30-minute auto-reverse tuner with 30-station (15 FM, 15 AM) preset capability
- Seek/manual tuning
- Auto preset tuning
- Multi-Bass Horn circuit for low-frequency sound reproduction
- Sound mode control
- Timer/Check function
- Sleep timer can be set for up to 120 minutes
- Microphone mixing facility

**CARACTERISTICAS**

- Operación de un solo toque (COMPU PLAY) (para uso con CA exclusivamente)
- Unidad de control remoto con 23 teclas para operación de CD, platina de cassette y LaserDisc
- Repetición por saltos/búsqueda
- Reproducción aleatoria
- Mecanismo automático de inversión de transporte de cinta con lógica completa
- Para obtener una calidad de tono superior es posible utilizar cintas de metal (tipo IV) y de CrO<sub>2</sub> (tipo II)
- Grabación de voz para grabación de cintas de CrO<sub>2</sub> (tipo II)
- Sintonizador sintetizador digital de 2 bandas con capacidad para presintonización de 30 estaciones (15 de FM y 15 de AM)
- Sintonización búsqueda/manual
- Sintonización programada automática
- Circuito para bocina de graves múltiples para reproducción de sonidos de baja frecuencia
- Control de modo de sonido
- Función de temporizador/reloj
- Temporizador de sueño con temporizador con función de volumen presintonizado
- El temporizador despiertador puede ser programado hasta un máximo de 120 minutos
- Facilidad para mezcla de micrófonos

**POWER button**

When the power cord of the AC adapter is connected to a household AC outlet, the STANDBY indicator lights in red indicating that the power is supplied by batteries. When the POWER button is pressed, the red indicator turns green showing that the power is on (this green indicator lights whether the power is supplied through the AC adapter or by batteries).

**While this unit is plugged into a household AC outlet using the AC adapter, it consumes current even if its POWER button is set to STANDBY.**

**PRECAUCIONES DE SEGURIDAD**

**Prevención de choques eléctricos, peligro de incendio y daños**

1. Aunque el botón de alimentación POWER, siempre emite una pequeña corriente eléctrica por ahorrar energía y por seguridad cuando no utiliza esta unidad durante un largo periodo, desconecte el cordón eléctrico del tomacorriente de CA.
2. No manipule el cordón eléctrico con las manos mojadas.
3. Cuando lo desenchufe del tomacorriente de la pared, sujételo siempre por el enchufe, no por el cordón.
4. En caso de que el cordón sea afectado por daños, desconexión, o falso contacto, consulte a su agencia más cercana.
5. No doble en ángulo agudo el cordón, no jale del mismo ni lo vuelva.
6. No modifique el cordón eléctrico de ninguna manera.
7. Para evitar accidentes, no extraiga los tornillos para desarmar la unidad y no toque nada dentro de la misma.
8. No introduzca ningún objeto metálico dentro de la unidad.
9. Desenchufe el cordón eléctrico cuando haya posibilidad de caída de rayos.
10. Si se introduce agua dentro de la unidad, desenchufe el cordón eléctrico del tomacorriente y consulte a su agente.
11. No bloquee los orificios de ventilación de la unidad que permiten el escape de calor. No instale la unidad en un lugar mal ventilado.

**Botón POWER**

Cuando se conecta el cordón de alimentación del adaptador de CA a un tomacorriente de CA, se enciende en rojo la indicación de alimentación, indicando que la unidad está alimentada (esta indicación se enciende cuando la alimentación proviene desde el adaptador de CA o de las pilas). Cuando presiona el botón POWER, la indicación roja se vuelve verde indicando que la alimentación está conectada (esta indicación verde se enciende independientemente que la alimentación provenga del adaptador de CA o de las pilas).

**Mientras esta unidad está enchufada en un tomacorriente de CA por medio del adaptador de CA, consume corriente aunque el botón POWER esté colocado en STANDBY.**

**CONSIGNES DE SECURITE**

**Prévention contre l'électrocution, les incendies et les dommages**

1. Même quand la touche POWER est réglée sur STANDBY, il circule un très faible courant électrique. Pour économiser l'énergie et pour la sécurité, si l'appareil n'est pas utilisé pendant une longue période, débrancher le cordón d'alimentation de la prise secteur.
2. Ne pas saisir le cordón d'alimentation avec les mains humides.
3. En débranchant de la prise secteur, toujours tenir et tirer sur la fiche, pas sur le cordón.
4. Consulter le revendeur le plus proche si une partie du cordón est affectée par des dommages, si le cordón est déconnecté, ou un mauvais contact se produit avec le cordón sévèrement et ne pas le tirer ni le tordre.
5. Ne pas plier le cordón d'alimentation, ne pas modifier le cordón d'alimentation.
6. Ne pas modifier les trous de ventilation de l'appareil pour éviter les accidents, ne pas retirer les vis pour démonter l'appareil et ne rien toucher dans l'appareil.
7. Ne pas introduire d'objets métalliques dans l'appareil.
8. Débrancher le cordón secteur en cas de tonnerre.
9. Ne pas introduire d'eau pénétrée dans l'appareil, débrancher le cordón secteur de la prise et consulter un revendeur.
10. Si de l'eau pénètre dans l'appareil, débrancher le cordón secteur de la prise et débrancher l'appareil qui permettront à la chaleur de s'évacuer.
11. Ne pas installer l'appareil dans un endroit mal aéré.

**Touche d'alimentation (POWER)**

Lorsque le cordón d'alimentation de l'adaptateur CA est branché sur une prise de courant, l'indicateur d'alimentation est allumé en rouge indiquant le mode d'alimentation (STANDBY) (cet indicateur rouge s'allume pas après une longue période, il indique que la puissance est fournie par les piles). Quand on appuie sur la touche POWER, l'indicateur rouge passe au vert montrant que l'alimentation est disponible (cet indicateur vert s'allume que l'alimentation soit fournie par l'adaptateur secteur ou par les piles).

**Alors que cet appareil est branché sur une prise de courant en utilisant l'adaptateur secteur, il consomme de la puissance même si le bouton POWER est réglé sur STANDBY.**

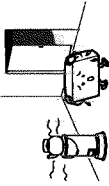
HANDLING PRECAUTIONS



Do not use this unit in direct sunlight or leave the unit in closed automobiles (or yachts, etc.) where it would be exposed to high temperatures above 40°C (104°F).

- Avoid installing in the following places**
  - Where it could be subject to vibrations.
  - Where it is excessively humid, such as in a bathroom.
  - Where it could be magnetized by a magnet or speaker.
- Pay attention to dust**
  - Do not wipe the CD door so that dust does not collect on the lens. Do not touch the lens.
- Condensation**
  - In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.
    - In a room where a heater has just been switched on.
    - In a place where there is smoke or high humidity.
    - When the unit is moved directly from a cold to a warm room.
  - In these cases, set the POWER button to ON and wait 1 or 2 hours before use.
- Volume setting**
  - CDs produce very little noise compared with analog sources. If the volume level is adjusted for these sources, the speakers may be damaged by the sudden increase of output level. Therefore, lower the volume during operation and adjust it as required before listening.
- Safety mechanism**
  - This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the CD door is open, the laser beam stops automatically.
- Do not place cassette tapes, etc. near the speakers**
  - Since there are magnets in the speakers, do not place tapes or magnetic cards on the speakers.
- Keep this unit away from your TV**
  - When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.
- Cleaning the cabinet**
  - If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as they can damage the cabinet finish.
- When listening with headphones**
  - Do not listen at high volumes as it could damage your hearing.
  - For safety, do not drive while listening to this unit.

PRECAUCIONES DE MANIPULACION



No utilice esta unidad bajo la luz directa del sol ni la deje en automóviles cerrados (o yates, etc.) donde podría quedar expuesta a temperaturas superiores a 40°C.

- Evite instalar la unidad en los siguientes lugares**
  - Donde pueda quedar sujeta a vibraciones.
  - Donde haya humedad excesiva tal como en un baño.
  - Donde pueda ser magnetizada por un imán o un altavoz.
- Preste atención al polvo**
  - No limpie la puerta de la unidad de CD para que el polvo no se acumule sobre la lente. No toque la lente.
- Condensación**
  - En los siguientes casos, condensación puede ocurrir en la unidad, lo cual puede impedir su correcto funcionamiento.
    - En una sala donde se haya encendido recientemente un calentador.
    - En un lugar donde haya humo o alta humedad.
    - Cuando mueva la unidad directamente de una sala fría a una sala tibia.
  - En estos casos coloque el botón POWER en ON y espere 1 o 2 horas antes de usar.
- Ajuste del volumen**
  - Los CD producen muy poco ruido en comparación con las fuentes analógicas. Si el nivel de volumen es ajustado para estas fuentes, los altavoces pueden ser dañados por el nivel de salida. Por lo tanto, baje el volumen antes de la operación y ajústelo como sea necesario durante la reproducción.
- Mecanismo de seguridad**
  - Esta unidad posee un mecanismo interconectado de seguridad que conecta y desconecta el rayo láser de tal manera que cuando se abre el portadisco de CD, el rayo láser es inmediatamente desactivado.
- No coloque cintas de cinta, etc. cerca de los altavoces**
  - Como hay imanes dentro de los altavoces, el colocar cintas o cintas magnéticas sobre los altavoces, puede borrar los datos grabados.
- Mantenga esta unidad lejos de su TV**
  - Cuando se utiliza esta unidad cerca de un TV, la imagen del TV puede ser distorsionada. Si ocurre esto, aleje la unidad de su TV. Si esto no corrige el problema, evite utilizar esta unidad cuando el TV está en uso.
- Limpieza del gabinete**
  - Si el gabinete se ensucia, límpielo con un paño suave y seco. Nunca utilice bencina, alcohol o solvente ya que pueden dañar la terminación de la superficie.
- Cuando escuche con audífonos**
  - No escuche con volumen alto ya que esto puede dañar sus oídos.
  - Por seguridad no conduzca mientras escucha esta unidad.

PRECAUTIONS DE MANIPULATION



Ne pas utiliser cet appareil en plein soleil ou laisser l'appareil dans une voiture fermée (ou un yacht, etc.) où il pourrait être exposé à des températures élevées au-dessus de 40°C.

- Eviter l'installation dans les endroits suivants**
  - Où il pourrait être sujet aux vibrations.
  - Dans des endroits trop humides, comme dans une salle de bains.
  - Où il pourrait être magnétisé par un aimant ou un haut-parleur.
- Faire attention à la poussière**
  - N'essayez pas de nettoyer la porte de la cassette CD pour que la poussière ne s'accumule pas sur la lentille. Ne pas toucher à la lentille.
- Condensation**
  - Dans les cas suivants, la condensation peut se produire dans l'appareil, dans ce cas l'appareil peut ne pas fonctionner correctement.
    - Dans une pièce où le chauffage vient juste d'être mis.
    - En un endroit sujet à la fumée ou à une forte humidité.
    - Quand l'appareil est déplacé directement d'une pièce froide vers une pièce chaude.
  - Dans ces cas, mettez la touche POWER sur ON et attendez 1 ou 2 heures avant utilisation.
- Règler le volume**
  - Les disques audio numériques produisent un souffle très faible comparé à des sources analogiques. Si le niveau de volume est réglé pour ces sources, les haut-parleurs peuvent être endommagés par le niveau de sortie. Par conséquent, baisser le volume avant le fonctionnement et le régler comme requis pendant la lecture.
- Dispositif de sécurité**
  - Cet appareil dispose d'un dispositif de verrouillage de sécurité qui établit ou coupe le rayon laser, pour que quand le volet CD est ouvert, le rayon laser s'arrête.
- Ne pas placer de cassettes, etc. près des haut-parleurs**
  - Comme il y a des aimants dans les haut-parleurs, ne pas placer de bande ou de cartes magnétiques sur eux car des informations enregistrées pourraient être effacées.
- Garder cet appareil éloigné de votre téléviseur**
  - Cet appareil est conçu près d'un téléviseur. Si vous utilisez cet appareil près d'un téléviseur, si ce n'est pas suffisamment éloigné, l'appareil peut être affecté.
- Nettoyage du coffret**
  - Si le coffret devient sale, l'essuyer avec un chiffon doux et sec. Ne jamais utiliser de benzine ou de diluant qui pourrait endommager le fini de la surface.
  - En toute sécurité, ne conduisez pas avec une ceinture de sécurité quand vous écoutez cet appareil.

POWER SUPPLY

A. Operation on household AC

(For CANADA)  
**CAUTION**  
 TO PREVENT ELECTRIC SHOCK, MATCH FULLY TO WIDE SLOT, FULLY INSERT.  
 (POUR CANADA)  
**ATTENTION**  
 POUR EVITER LES CHOCES ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.



Connect to an AC outlet.  
 Conecte a un tomacorriente en CA.  
 Branchez sur une prise secteur.

- The provided AC adapter's power cord for this unit has certain one-way direction connections to prevent electric shock. Refer to the illustration for correct connection.

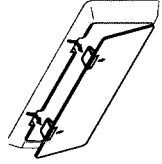
**Note:**  
 The provided AC adapter has a built-in transformer, which creates a magnetic field. When it is placed close to the unit, a hum may emanate from the adapter. If this happens, move the AC adapter as far from the unit as possible and use it.

- PRECAUTIONS:**
- ONLY USE WITH JVC AC ADAPTER PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. REMOVE BATTERIES WHEN USING THE AC ADAPTER.**
  - BE SURE TO UNPLUG THE POWER CORD FROM THE AC ADAPTER BEFORE PLUGGING THE UNIT IN. IT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.**

B. Batteries for memory back-up system

It is recommended that batteries are loaded to the unit before use. If the unit is not in use for an extended period of time, the AC power cord is disconnected.

- Loading batteries**  
 Load three "R6AA (15F)" size batteries (optional) into the battery compartment.

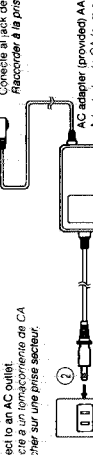


"R6AA (15F)" size batteries  
 Piles "R6AA (15F)"  
 Piles de taille "R6AA (15F)"

ALIMENTACION

A. Operación con CA en el hogar

(For CANADA)  
**CAUTION**  
 TO PREVENT ELECTRIC SHOCK, MATCH FULLY TO WIDE SLOT, FULLY INSERT.  
 (POUR CANADA)  
**ATTENTION**  
 POUR EVITER LES CHOCES ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.



Connect to the DC IN jack.  
 Conecte al jack de CC (DC IN).  
 Raccorder à la prise CC (DC IN).

- The cord of the AC adapter of the adapter sector provided for this unit may not be used for other than the intended use. Refer to the illustration for correct connection.

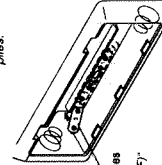
**Remarque:**  
 L'adaptateur secteur fourni a un transformateur incorporé, qui crée un champ magnétique. Quand il est placé près de l'appareil, un ronflement peut être émis. Si cela arrive, placer l'adaptateur secteur le plus loin possible de l'appareil et l'utiliser.

- PRECAUTIONS:**
- UTILISEZ SEULEMENT AVEC L'ADAPTEUR SECTEUR JVC FOURNI AVEC CET APPAREIL POUR EVITER UN MAUVAIS FONCTIONNEMENT OU DES DOMMAGES A L'APPAREIL. RETIRER LES PILES EN UTILISANT L'ADAPTEUR SECTEUR.**
  - BIEN DEBRANCHER LE CORDON D'ALIMENTATION DE L'ADAPTEUR SECTEUR DE LA PRISE DE COURANT QUAND VOUS SORTEZ OU SI L'APPAREIL N'EST PAS UTILISE PENDANT UNE LONGUE PERIODE.**

B. Piles para el sistema de apoyo de memoria

It is recommended to insert the piles para evitar que se borren la memoria de las estaciones presintonizadas de la memoria, etc. cuando hay un corta de energía o cuando se desconecta el cordón de CA.

- Mise en place des piles**  
 Mettre en place trois piles de taille "R6AA (15F)" (en option) dans le compartiment des piles.



"R6AA (15F)" size batteries  
 Piles "R6AA (15F)"  
 Piles de taille "R6AA (15F)"

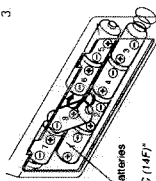
When removing the batteries, push from the bottom of the unit.

**Notes:**

- The three "R6/AA (15F)" size batteries supply power to the back-up system whenever the control failure, or the power cord of the AC adapter is disconnected. Battery power is not consumed when the power cord of the AC adapter is connected to the household AC outlet.
- When the memory backup function is activated, the time is not displayed to reduce the power consumption.
- When the "R14C (14F)" size batteries are connected to the AC adapter, the batteries are not replaced with new ones approximately every 6 months.
- Connect the power cord of the AC adapter when replacing batteries in order to backup the memory.

**C. Operation on batteries**

- Loading batteries**
1. Open the battery cover by pulling it toward you while pressing the sections marked by the arrows.
  2. Insert eight "R14C (14F)" size batteries as shown in the diagram.
  - Be careful to insert the batteries with the  $\oplus$  and  $\ominus$  terminals positioned correctly.
  3. Replace the cover.



**Checking batteries**

When the tape speed or output sound decreases, or CD play is intermittent, replace all batteries with fresh ones.

When making an important recording, use new batteries (preferably alkaline batteries with a longer service life) to avoid any possible failure.

- Continuous power usage by the unit causes the battery power to be consumed quicker than noncontinuous operation.
- Operation of the unit in a cold place causes the battery power to be consumed more quickly than in a warm place.

- CAUTIONS:**
- WHEN NOT USING THE UNIT FOR A LONG PERIOD OF TIME, REMOVE THE BATTERIES TO AVOID A MALFUNCTION OR DAMAGE TO THE UNIT.
  - WHEN THE JVC AC ADAPTER PROVIDED WITH THIS UNIT IS CONNECTED, THE POWER IS AUTOMATICALLY SWITCHED FROM THE BATTERIES TO THE HOUSEHOLD AC EVEN WHEN RECHARGING THE BATTERIES WHEN USING THE AC ADAPTER.

Para extraer las pilas presione desde el fondo de la unidad.

**Notes:**

- Las tres pilas tamaño "R6/AA (15F)" suministran alimentación para el sistema de respaldo de energía que opera cuando se pierde el control de CA, o cuando se desconecta el cordón de alimentación del adaptador de CA. Las pilas no se consumen cuando se desconecta el adaptador de CA del tomacorriente de CA.
- Cuando se activa la función de apoyo de memoria, la hora no es indicada para reducir el consumo de energía.
- Cuando se conectan las pilas tamaño "R14C (14F)" al adaptador de CA, no está conectado cuando no se han conectado las pilas tamaño "R14C (14F)", es necesario reemplazar las pilas por nuevas cada 6 meses aproximadamente.
- Conecte el cordón de alimentación del adaptador de CA para alimentar la memoria.

**C. Operación con pilas**

- Colocación de las pilas**
1. Abra la tapa del portapilas tirando del mismo hacia usted, al mismo tiempo que presiona las secciones marcadas por las flechas.
  2. Introduzca ocho pilas tamaño "R14C (14F)" como se muestra en el diagrama.
  - Tome precauciones para colocar las pilas con los polos  $\oplus$  y  $\ominus$  posicionados correctamente.
  3. Recloquee la tapa.

When batteries are used incorrectly, it may damage the tape or chemicals from the batteries in the tape.

**PLAS**

Quando se usan las pilas incorrectamente, ello puede resultar en daños de los productos químicos de las pilas o en la posible explosión. Las precauciones pueden evolucionar. Tenga las siguientes precauciones:

- Verifique que los polos  $\oplus$  y  $\ominus$  de las pilas estén correctamente posicionados como se muestra en el diagrama.
- Do not mix new and old batteries together, or mix different types of batteries.
- No intente recargar pilas que no son recargables.
- Evite que las pilas cuando no vaya a usar la unidad durante un largo periodo.
- Si los productos químicos provenientes de las pilas entran en contacto con su piel, lávelos inmediatamente con agua. Si se llegan productos químicos y caen sobre la unidad, límpiela completamente.

When batteries are used incorrectly, it may damage the tape or chemicals from the batteries in the tape.

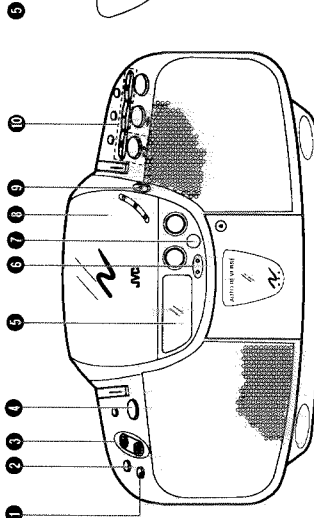
**PRECAUTIONS EN UTILISANT LES PILES**

Si des piles ne sont pas utilisées correctement, il peut en résulter une fuite de produits chimiques des piles ou elles peuvent même exploser. Les précautions peuvent évoluer. Les précautions à prendre sont les suivantes:

- Vérifier que les pôles positif (+) et négatif (-) des piles sont positionnés correctement et les mettre en place comme montré sur le schéma.
- Ne pas mélanger des piles neuves avec des piles utilisées, ni mélanger différents types de piles.
- Ne pas essayer de recharger des piles.
- Retirer les piles si l'appareil n'est pas à utiliser pendant une longue période.
- Si des produits chimiques des piles viennent en contact avec votre peau, la laver immédiatement avec de l'eau. Si des produits chimiques coulent sur l'appareil, nettoyer complètement l'appareil.

**NAMES OF PARTS AND THEIR FUNCTIONS**

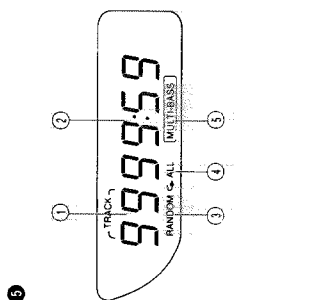
CD player/General section



- 1 MULTI-BASS HORN button
- 2 SOUND button
- 3 BASS buttons (+, -)
- 4 POWER button
- 5 Display window
- 6 Function/track number display
- 7 PLAY time display
- 8 RANDOM play indicator
- 9 Repeat play indicator (REPEAT)
- 10 MULTI-BASS indicator
- 11 POWER ON/STANDBY indicator
- 12 Remote sensor section
- 13 CD door
- 14 OPEN/REVERSE (A) button
- 15 CD operation buttons
- 16 BASS buttons (+, -)
- 17 BASS buttons (+, -)
- 18 Press to locate the beginning of a track and to start forward/reverse search operations.
- 19 Stop button (STOP)
- 20 Press to stop playing a CD.
- 21 CD play/pause button (PAUSE)
- 22 Press to play a CD or to stop temporarily.

**NOMS DES PIÈCES ET LEURS FONCTIONS**

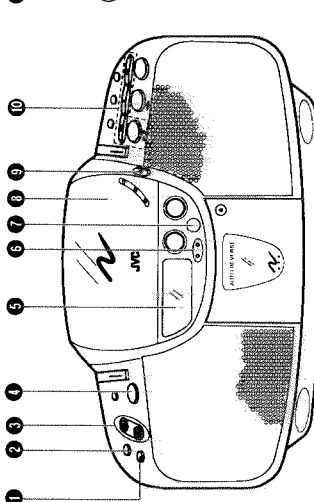
Section lecteur CD/général



- 1 Boîtier MULTI-BASS HORN
- 2 Touche de son (SOUND)
- 3 Touches de VOLUME (+, -)
- 4 Touche d'alimentation (POWER)
- 5 Fenêtre d'affichage
- 6 Affichage de la fonction/numéro de piste
- 7 Indicateur de lecture aléatoire (RANDOM)
- 8 Indicateur de lecture répétée (REPEAT)
- 9 Indicateur MULTI-BASS
- 10 Indicateur d'alimentation POWER (ON/STANDBY)
- 11 Section de détection de télécommande
- 12 CD door
- 13 Bouton OPEN/REVERSE (A)
- 14 Boutons de fonctionnement CD
- 15 Boutons de volume (+, -)
- 16 Boutons de recherche avant/arrière
- 17 Touche de recherche CD SEARCH (STOP)
- 18 Touche de lecture/pause CD (PAUSE)
- 19 Touche de lecture/pause CD (STOP)
- 20 Appuyer pour arrêter la lecture d'un CD.
- 21 Appuyer pour lire un disque CD ou pour arrêter momentanément.

**NOMBRES DE LAS PARTES Y SUS FUNCIONES**

Sección del reproductor de CD/general

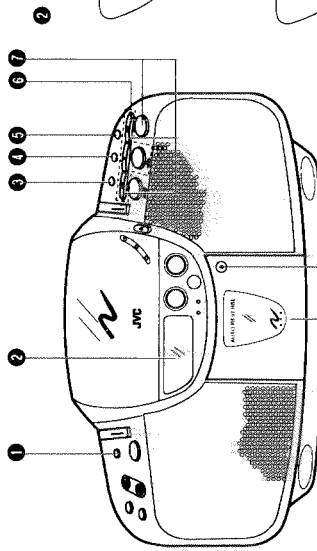


- 1 Botón MULTI-BASS HORN
- 2 Botón SOUND
- 3 Botones de volumen (VOLUME) (+, -)
- 4 Botón de alimentación (POWER)
- 5 Pantalla de visualización
- 6 Indicador de función/ número de pista
- 7 Indicador de reproducción aleatoria (RANDOM)
- 8 Indicador de reproducción repetida (REPEAT)
- 9 Indicador de reproducción de reproducción total (ALL)
- 10 Para el ajuste de reloj, vea la página 24.
- 11 Indicador POWER ON/STANDBY
- 12 Sección sensor remoto
- 13 Botones de funcionamiento de CD
- 14 Botones para operación de CD
- 15 Botones de búsqueda de CD (SEARCH)
- 16 Botones de búsqueda de CD (SEARCH)
- 17 Botones de búsqueda de CD (SEARCH)
- 18 Presione para ubicar el principio de una pista o para iniciar las operaciones de búsqueda hacia adelante/atrás.
- 19 Botón de parada (STOP)
- 20 Presione para detener la reproducción de un CD.
- 21 Presione para reproducir o pausar temporalmente la reproducción de un CD.



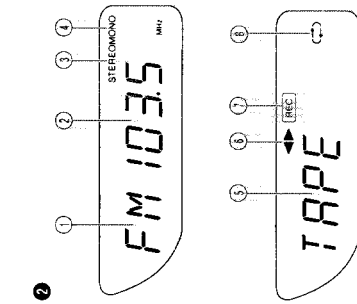
Tuner/Deck section

Sección del sintonizador/platina



- 1 PRESET TUNING/AUTO PRESET button
- 2 Display window
- 3 Band indicator
- 4 Radio frequency display
- 5 STEREO indicator
- 6 MONO indicator
- 7 Tape (TAPE) mode display
- 8 Tape recording indicator (REC) (▶▶)
- 9 Reverse mode indicator (◀▶)
- 10 ONE TOUCH REC button (◀▶)
- 11 MONO button
- 12 REVERSE MODE button (◀▶)
- 13 For single-side recording or playback
- 14 For recording or playback on both sides
- 15 Cassette operation buttons
- 16 REW : Press to stop the tape.
- 17 F : Press to rewind the tape.
- 18 FF : Press to fast forward the tape.
- 19 TAPE (▶▶) : Press to select the TAPE mode.
- 20 For reproduction continuous
- 21 For playback of the cassette
- 22 Preset for rebinding the tape
- 23 Preset for detuning the tape
- 24 Preset for fast forward the tape
- 25 Preset for reverse the tape
- 26 Preset for stop the tape
- 27 Preset for stop the tape
- 28 Preset for stop the tape
- 29 Preset for stop the tape
- 30 Preset for stop the tape
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- 97 Preset for stop the tape
- 98 Preset for stop the tape
- 99 Preset for stop the tape
- 100 Preset for stop the tape

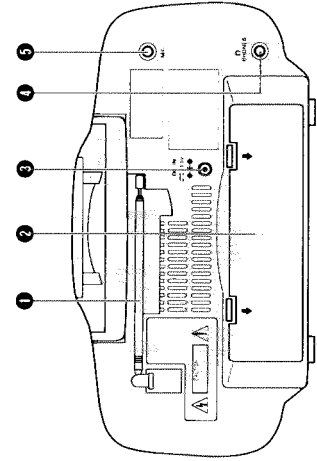
Section Synchroniser/Platine



- 1 Touche de synchronisation des pré-régulages (AUTO-PRESET)
- 2 Feuille d'affichage
- 3 Indicateur de gamme
- 4 Affichage de la fréquence radio
- 5 Indicateur stéréo (STEREO)
- 6 Indicateur mono (MONO)
- 7 Affichage du mode de bande (TAPE)
- 8 Indicateur de sens de défilement de la bande (▶▶)
- 9 Indicateur d'enregistrement (REC)
- 10 Touche ONE TOUCH REC
- 11 Touche de mode d'inversion (REVERSE MODE)
- 12 Pour l'enregistrement ou la lecture d'une seule face
- 13 Pour l'enregistrement ou la lecture des deux faces
- 14 Pour la lecture continue
- 15 Pour le fonctionnement cassette
- 16 Preset pour rebobiner la bande
- 17 Preset pour arrêter la bande
- 18 Preset pour faire défiler rapidement la bande
- 19 Preset pour sélectionner le mode TAPE
- 20 Preset pour lire la bande en sens avant. L'indicateur ▶ s'allume dans la fenêtre d'affichage.
- 21 Preset pour lire la bande en sens arrière. L'indicateur ◀ s'allume dans la fenêtre d'affichage.
- 22 Touche TUNER/FM/AM
- 23 Appuyer pour sélectionner le mode synchroniser.
- 24 Appuyer pour sélectionner la gamme.
- 25 Touche de synchronisation (▶▶)
- 26 Porte cassette
- 27 Section PUSH/EJECT (▶) du porte cassette

Rear panel

Panneau arrière



- 1 Telescopic antenna
- 2 Battery compartment cover
- 3 DC IN jack (13.5 V) (⚡)
- 4 Headphones jack (3.5 mm dia. stereo mini)
- 5 Connect the audiolines (impedance of 16 Ω to 1 kΩ) to this jack. Speaker sound is automatically switched ON when the headphones are connected.
- 6 MIC jack
- 1 Antenna telescopic
- 2 Couvercle du compartiment des piles
- 3 Prise d'entrée CC (DC IN) (13.5 V) (⚡)
- 4 Prise de casque d'écoute (3.5 mm de diamètre)
- 5 Branchez un casque (impédance de 16 Ω à 1 kΩ) à cette prise. Les haut-parleurs seront automatiquement coupés quand le casque est branché.
- 6 Prise de microphone (MIC)

REMOTE CONTROL UNIT

UNIDAD DE CONTROL REMOTO

- Preparation before use
- 1 Installing batteries in the remote control unit
- 2 Remove the battery cover from the back of the remote control unit.
- 3 Insert two "RG/AA (1.5F)" size batteries. Insert the batteries with the ⚡ and ⊕ terminals matching the indication inside the battery compartment.
- 4 Replace the cover.

- Preparativos antes usarla
- 1 Instalación de las pilas en la unidad de control remoto
- 2 Extraiga la tapa de las pilas de la parte trasera de la unidad de control remoto.
- 3 Inserte dos pilas de tamaño "RG/AA (1.5F)". Inserte las pilas con los terminales ⚡ y ⊕ de acuerdo a la indicación en el interior del compartimiento de las pilas.
- 4 Recoloque la tapa.

- Preparation before use
- 1 Installing batteries in the remote control unit
- 2 Remove the battery cover from the back of the remote control unit.
- 3 Insert two "RG/AA (1.5F)" size batteries. Insert the batteries with the ⚡ and ⊕ terminals matching the indication inside the battery compartment.
- 4 Replace the cover.

- Preparatifs avant utilisation
- 1 Mise en piles des piles dans le boîtier de télécommande
- 2 Retirez le couvercle des piles du dos du boîtier.
- 3 Introduire deux piles de taille "RG/AA (1.5F)". Introduire les piles en respectant les indications des bornes ⚡ et ⊕ dans le compartiment des piles.
- 4 Remettre en place le couvercle



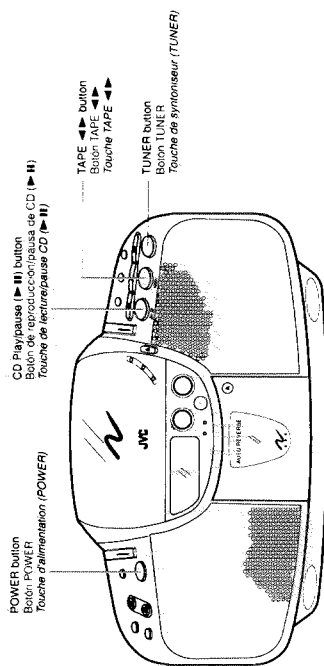
- 1 Insert the ⊕ ends first.
- 2 Push the ⊕ ends into the terminal ⊕.
- 3 Insert the ⊕ ends last.
- 4 Push the ⊕ ends into the terminal ⊕.

- 1 Insert the ⊕ ends first.
- 2 Push the ⊕ ends into the terminal ⊕.
- 3 Insert the ⊕ ends last.
- 4 Push the ⊕ ends into the terminal ⊕.

- 1 Battery replacement
- 2 When the remote control operation becomes unstable or the distance from which remote control is possible decreases, replace the batteries.

- 1 Remplacement des piles
- 2 Si le fonctionnement du contrôleur devient instable ou si la distance de fonctionnement devient plus courte, remplacer les piles.

**SWITCHING THE POWER ON/OFF** **CONEXION/DESCONEXION DE LA ALIMENTACION** **COMMUTATION MARCHÉ/ARRÊT DE L'ALIMENTATION**



**Commutation marche/arrêt de l'alimentation**

- Mise en marche.

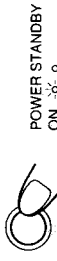
**Conexión/desconexión de la alimentación**

- Conexión

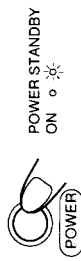
The green indicator lights.  
Se enciende la indicación verde.  
L'indicateur vert s'allume.

**Switching the power on/off**

- Switching on:



**Switching off:**



- Mise à l'arrêt:

The red indicator lights. (The indicator does not light when the power is supplied by batteries.)  
La indicación roja se enciende. (La indicación no se enciende cuando la alimentación proviene de las pilas.)  
L'indicateur rouge s'allume. (L'indicateur ne s'allume pas si l'alimentation est fournie par les piles.)

**COMPU PLAY (solo cuando se usa CA)**

Quando la alimentación está colocada en STANDBY, el presionar el botón mostrado abajo conecta la alimentación y selecciona la fuente de la potencia y selecciona la fuente.

**COMPU PLAY (seulement lorsque l'alimentation CA est utilisée)**

Même lorsque l'alimentation est réglée sur STANDBY, une pression sur la touche montrée ci-dessous met l'alimentation sur marche et sélectionne la source.

**COMPU PLAY (only when AC power is used)**

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

Function mode Modo de función Mode fonction	Operations Operaciones Opérations
CD	When the button is pressed with a CD loaded, CD playback begins. Cuando se presiona esta botón habiendo un CD colocado, comienza la reproducción del mismo. Lorsque cette touche est pressée avec un disque audio/cassette chargé, la lecture CD commence.
TAPE	When the button is pressed with a tape loaded, tape playback begins. Cuando se presiona esta botón habiendo una cassette cargada, la reproducción de la misma comienza. Lorsque cette touche est pressée avec une cassette chargée, la lecture de la cassette commence.
TUNER	When the button is pressed, the Tuner is engaged. Cuando se presiona este botón, se activa el sintonizador. Lorsque cette touche est pressée, le sintoniseur est engagé.

- Notes:**
- Para desconectar la alimentación asegúrese de presionar el botón POWER.
  - El botón COMPU PLAY del controlador remoto tiene la misma función que el de la unidad principal.

- Remarques:**
- Pour couper l'alimentation, s'assurer de bien appuyer sur la touche POWER.
  - La touche COMPU PLAY sur la télécommande a la même fonction que celle sur l'appareil principal.

- Notes:**
- When switching off the power, be sure to press the POWER button.
  - The COMPU PLAY button on the remote control has the same function as that on the main unit.

**Utilización del botier de telecommande**

- Puntar el botier de telecommande vers la sección de la unidad y utilizar dentro de una línea de 7 m de radio.
- La portada de la telecommande, deviene plus courte quand le botier est utilisé en formant un angle.
- Ne pas exposer la section du détecteur de télécommande à une lumière forte (soleil ou éclairage artificiel).
- S'assurer qu'il n'y a pas d'obstacles entre la section du détecteur de télécommande et la télécommande.

**Le fonctionnement suivant peut être effectué en utilisant le botier de télécommande.**

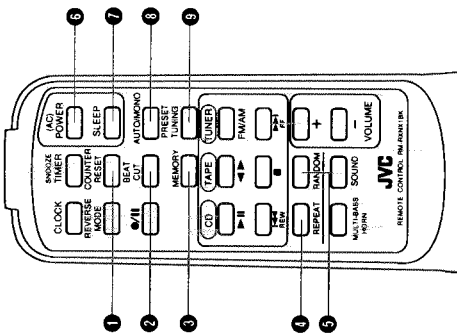
- Bien étudier les fonctions des touches de fonctionnement et les utiliser correctement.

**Utilización de la unidad de control remoto**

- Apuntar hacia el sensor remoto y haga funcionar dentro de un radio de 7 m. asegure cuando se lo apunta en ángulo.
- No exponga el sensor remoto a la luz directa del sol o a fuerte iluminación artificial.
- Asegúrese de que no hayan obstáculos entre el sensor remoto y el controlador remoto.

**Las siguientes operaciones deben ser ejecutadas utilizando la unidad de control remoto.**

- Compruebe detalladamente el funcionamiento de los botones de operación y opeleslos correctamente.



**Using the remote control unit**

- Point at the remote sensor and operate within about 7 m (approx. 23 ft).
- The remote control range is less when the unit is used at an angle.
- Do not expose the remote sensor to strong direct sunlight or artificial lighting.
- Make sure that there are no obstacles between the remote sensor and the unit.

**The following operations can be performed using the remote control unit.**

- Check the operation button functions carefully and operate them correctly.

**1 Touche de remise à zéro du compteur (COUNTER RESET)**

- Touche coupe-beattement (BEAT CUT)
- Touche de mémoire (MEMORY)
- Touche de lecture répétée (REPEAT)
- Touche de lecture aléatoire (RANDOM)
- Touche d'alimentation secteur (POWER (AC))
- Lorsque l'alimentation est fournie par les piles, cette touche (POWER (AC)) ne peut pas mettre en marche l'appareil principal. (Dans ce cas, mettez d'abord en marche la touche POWER de l'appareil principal.)
- Touche de minuterie de sommeil (SLEEP)
- Touche d'autosonnettement (AUTO TUNING)

En pressant pendant plus de 2 secondes, la sintonisation automatique des prééglages est activée.

- Les touches non mentionnées ici ont les mêmes fonctions que celles sur l'appareil principal.

**1 Botón COUNTER RESET**

- Botón de memoria (MEMORY)
- Botón de repetición de reproducción (REPEAT)
- Botón de reproducción aleatoria (RANDOM)
- Botón de reproducción de CA (POWER (AC))
- Si la alimentación es suministrada por pilas, el botón (POWER (AC)) no funciona como alimentación de la unidad principal. (En este caso, primero presione el botón POWER de la unidad principal.)
- Botón del temporizador de desconexión (SLEEP)
- Botón AUTOMONTO (AUTO TUNING)

Cuando se presiona durante más de 2 segundos, se activa la sintonización automática de los preajustes.

- Los botones que no son mencionados aquí, tienen las mismas funciones que los que están en la unidad principal.

**1 COUNTER RESET button**

- BEAT CUT button
- MEMORY button
- REPEAT button
- RANDOM button
- POWER (AC) button
- When the main unit power is supplied from batteries, this POWER (AC) button cannot turn on main unit power. (In this case, switch on the POWER button of the main unit first.)
- SLEEP button
- AUTOMONTO button

When pressed for more than 2 seconds, the auto preset tuning mode is activated.

- Buttons not mentioned here have the same functions as those on the main unit.

VOLUME, TONE AND OTHER CONTROLS

VOLUME, TONALITE ET AUTRES COMMANDES
Touche de volume (VOLUME)
Utiliser pour augmenter le volume.
Utiliser pour réduire le volume.

Botón VOLUME
Para aumentar el volumen.
Para reducir el volumen.
(Los límites de control van de VOL 0 a VOL 25.)

Botón MULTI-BASS HORN
ON: The MULTI-BASS indicator lights. Set to this position, to activate MULTI-BASS HORN sound.
OFF: The MULTI-BASS indicator goes out. Set to this position when MULTI-BASS HORN sound is not required.

Botón de modo de sonido
Esta unidad posee tres modos de sonido preprogramados (CLEAR, POP, LIVE). Estos modos pueden ser seleccionados para realizar el tipo de música que está siendo reproducida.

Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

Selección de modo de sonido
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Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

VOLUME, TONO Y OTROS CONTROLES

VOLUME, TONALITE ET AUTRES COMMANDES
Touche de volume (VOLUME)
Utiliser pour augmenter le volume.
Utiliser pour réduire le volume.

Botón VOLUME
Para aumentar el volumen.
Para reducir el volumen.
(Los límites de control van de VOL 0 a VOL 25.)

Botón MULTI-BASS HORN
ON: The MULTI-BASS indicator lights. Set to this position, to activate MULTI-BASS HORN sound.
OFF: The MULTI-BASS indicator goes out. Set to this position when MULTI-BASS HORN sound is not required.

Botón de modo de sonido
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Reglar sur cette position pour écouter de la musique classique.

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Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

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Reglar sur cette position pour écouter de la musique classique.

Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

VOLUME, TONALITE ET AUTRES COMMANDES

Touche de volume (VOLUME)
Utiliser pour augmenter le volume.
Utiliser pour réduire le volume.

Botón MULTI-BASS HORN
ON: L'indicateur MULTI-BASS s'allume. Régler sur cette position pour activer le son MULTI-BASS HORN.
OFF: L'indicateur MULTI-BASS s'éteint. Régler sur cette position quand le son MULTI-BASS HORN n'est pas nécessaire.

Botón de modo de sonido
Cet appareil a trois modes de son pré réglés (CLEAR, POP, LIVE). Ces modes peuvent être sélectionnés pour relayer le type de musique lue.

Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

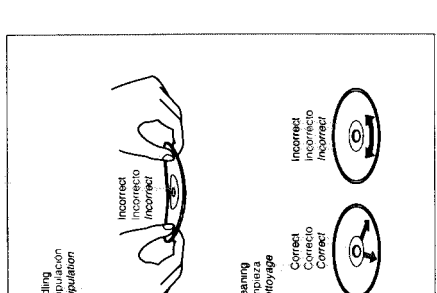
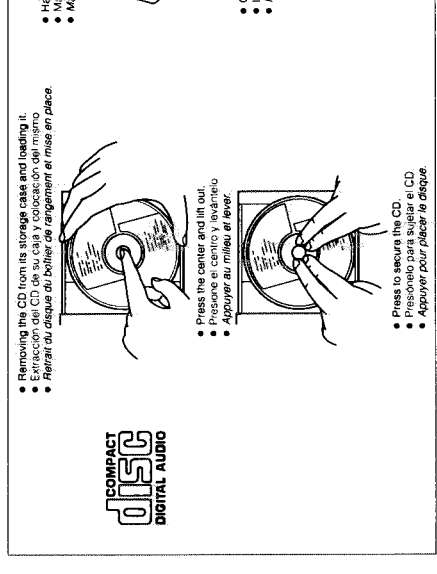
Selección de modo de sonido
Luz roja de efecto sonoro (características musicales clásicas).
Reglar sur cette position pour écouter de la musique classique.

Limpiieza de CD

- Before loading a CD, wipe off any dust, dirt and fingerprints with a soft cloth. CDs should be cleaned by wiping radially from the center to the edge.
Never use thinner, benzine, record cleaner or antistatic spray.

Nettoyage d'un disque

- Avant de charger un CD, limpez le polvo, la graisse, les empreintes digitales et les marques de doigts avec un chiffon doux. Le disque doit être nettoyé de l'intérieur vers l'extérieur.
Nunca utilice solvente, bencina, limpiador de discos o aerosol antiestático.

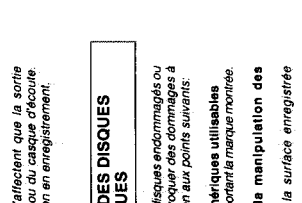
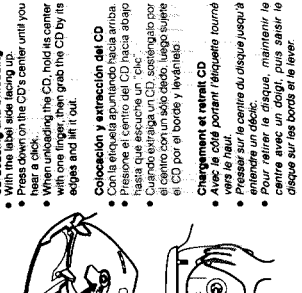
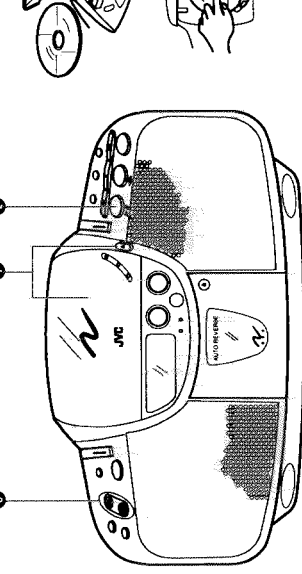


REPRODUCCION DE CD

Reproducción de todo un CD
The following example of playing an entire CD assumes a CD with 19 tracks and a total playing time of 61 minutes 3 seconds.

LECTURE DE DISQUES AUDIONUMERIQUES

Lecture d'un disque en entier
L'exemple suivant de lecture d'un disque en entier suppose un CD avec 19 pistes et un temps de lecture totale de 61 minutes et 3 secondes.



- Load a CD with the label side facing up and close the CD door.
Press the CD (▶) button to start play. (The power is switched ON when AC power is supplied.)
For further power is used, switch on the POWER button first, then perform operations.
Adjust.

- Chargez un disque avec la face portant l'étiquette vers le haut et fermer le volet CD.
Appuyez sur la touche CD (▶) pour commencer la lecture. (L'alimentation est mise en marche quand l'alimentation secteur est fournie.)
Pour continuer à utiliser le disque, appuyez sur la touche POWER, puis effectuez les opérations.
Régler.

HANDLING CDS

Use CDs with the mark shown.
Do not touch the reflective recorded surface.
Do not stick or write anything on the label side.
Do not bend CDs.
Storage
Avoiding a CD from the unit, be sure to put it back in its case.
Do not expose CDs to direct sunlight, high temperatures, from a heater, etc., high humidity, or dust.

MANIPULATION DES DISQUES AUDIONUMERIQUES

Comme les disques endommagés ou gonflés peuvent provoquer des dommages à l'appareil, faire attention aux points suivants:
Disques audio numériques utilisables
Utiliser des disques portant la marque montrée.
Remarques sur la manipulation des disques
Ne pas toucher la surface enregistrée réfléchissante.
Ne rien coller ni écrire sur la face portant l'étiquette.
Ne pas courber les disques.
Stockage
Après retrait d'un disque de l'appareil, s'assurer de bien le remettre dans son boîtier.
Ne pas exposer les disques en plein soleil, à de hautes températures provenant de un calorifère, etc., à une humidité, ou à un air très humides ou sales.

REPRODUCTION DE CD

Reproducción de todo un CD
The following example of playing an entire CD assumes a CD with 19 tracks and a total playing time of 61 minutes 3 seconds.

LECTURE DE DISQUES AUDIONUMERIQUES

Lecture d'un disque en entier
L'exemple suivant de lecture d'un disque en entier suppose un CD avec 19 pistes et un temps de lecture totale de 61 minutes et 3 secondes.

**• Indicators inside CD door**  
When the CD power is switched on, the indicators light and they blink in sequence during CD playback.

**Note:**  
When the CD door is closed after a CD is unloaded, the CD player lens moves up and down several times. This is not a malfunction.

**To stop play**

• **To stop in the middle of a CD**  
During play, press the **STOP** button to stop play.



**To stop a CD temporarily**

Press the **PAUSE** button to stop play temporarily and the playing time display blinks. When pressed again, play resumes from the point where it was paused.

**Notes:**  
• The following indication may appear when a CD is ejected, or when the CD is loaded upside down, or when the CD is stuck in a case, check the CD and insert again after cleaning the CD or turning it over.



• **Do not use the unit at excessively high or low temperatures.** The recommended temperature range is from 5°C (41°F) to 35°C (95°F).  
• If the play, unload the CD.  
• If tracking occurs during play, lower the volume.  
• Mis-tracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car traveling on a rough road).  
• Do not look directly at the CD player laser emitter (red light).

**Skip play**

• During play, it is possible to skip forward to the beginning of the next track or back to the beginning of the track being played or the previous track, when the beginning of the required track has been located, play starts automatically.

• **To listen to the next track...**  
Press the **SKIP** button once to skip to the beginning of the next track.

**To listen to the previous track...**

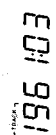
Press the **SKIP** button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

**• Indicadores dentro del portacasete**  
Cuando se conecta la alimentación, los indicadores se encienden y parpadean en secuencia durante la reproducción de CD.

**Note:**  
Cuando se cierra el portacasete de CD después de haber colocado un disco, la lente del reproductor de CD se mueve hacia arriba y hacia abajo varias veces. Esto no es una falla.

**Para detener la reproducción**

• **Para detener la reproducción de un CD en la mitad de la misma**  
Para detener la reproducción presione el botón **STOP**.



**• Prenda temporaria de la reproducción de CD**

Presione el botón **PAUSE** para detener temporalmente la reproducción. La indicación de tiempo de reproducción parpadeará. Para continuar la reproducción desde el punto donde se hizo la pausa, presione otra vez el botón mencionado.

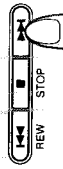
**Notes:**  
• Si alguna indicación puede aparecer cuando se carga un disco, revise el disco y asegurese de que se ha colocado arriba y abajo correctamente. En tal caso, inspeccione el CD y colóquelo otra vez después de limpiarlo o de girarlo.

• **No utilice la unidad en temperaturas excesivamente altas o bajas.** Los límites de temperatura recomendados son de 5°C a 35°C.  
• Después de la reproducción extraiga el CD.  
• Si ocurre un error de seguimiento durante la reproducción, baje el volumen.  
• Si produce un fuerte ruido de seguimiento en un lugar sujeto a vibraciones (es. en un automóvil viajando por una carretera irregular).  
• No mire directamente al emisor láser del reproductor de CD (luz roja).

**Reproducción con salto**

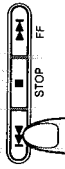
• Durante la reproducción es posible saltar hacia adelante hasta el principio de la próxima pista o hacia atrás hasta el principio de la pista que está siendo reproducida o de la pista anterior, cuando haya localizado el principio de la pista deseada, la reproducción se inicia automáticamente.

• **Para escuchar la próxima pista...**  
Presione una vez el botón **SKIP** para saltar al principio de la próxima pista.



**Para escuchar la pista anterior...**

Presione el botón **SKIP** para saltar al principio de la pista que está siendo reproducida. Presione dos veces rápidamente para saltar al principio de la pista anterior.



**Search play (to locate the required position on the CD)**

• The required position can be located using fast-forward or reverse search while playing a CD.



Keep pressing for fast-forward search. Mantenga presionado para la búsqueda progresiva rápida. Mantenga presionado para la búsqueda acelerada atrás.

• Hold down the button; search play starts slowly and then gradually increases in speed.  
• Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

**Repeat play (using the remote control unit)**

Press the REPEAT button before or during play. A single track or all the tracks can be repeated.

Whether a single track or all tracks are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single track (S) to all the tracks (A), to the clear mode, in this order.



**• Single track repeat (S)**

The track being played will play repeatedly.

**• All track repeat (A)**

All tracks of a CD will play repeatedly.

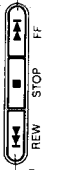
**Random play (using the remote control unit)**

Press the RANDOM button, and all tracks on a CD play once in random order.



**Reproducción con búsqueda (para localizar la posición deseada en el CD)**

• La posición deseada puede ser ubicada utilizando la búsqueda de avance rápido o inversa mientras reproduce un CD.



Keep pressing for fast-forward search. Mantenga presionado para la búsqueda progresiva rápida. Mantenga presionado para la búsqueda acelerada atrás.

• Mantenga presionado el botón; la búsqueda con reproducción se inicia lentamente y luego aumenta gradualmente la velocidad.  
• Como en el modo de búsqueda es posible escuchar el sonido a bajo volumen (aproximadamente a un cuarto del nivel normal), monitoree el sonido y suelte el botón cuando haya localizado la posición deseada.

**Repetición de reproducción (utilizando la unidad de control remoto)**

Presione el botón REPEAT antes o durante la reproducción. Es posible repetir un o todas las pistas.

Es posible especificar la reproducción de una sola o de todas las pistas. Cada vez que presiona el botón REPEAT el modo cambiará de la siguiente manera: una sola pista (S), a todas las pistas (A), al modo de borrado, en este orden.



**• Repetición de una sola pista (S)**

Repite la reproducción de la pista que se está escuchando.

**• Repetición de todas las pistas (A)**

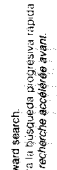
Repite la reproducción de todas las pistas de un CD.

**Reproducción aleatoria (utilizando la unidad de control remoto)**

Para reproducir una vez todas las pistas de un CD aleatoriamente, presione el botón RANDOM.

**Recherche en lecture (pour localiser la position voulue sur le disque)**

• La position voulue peut être localisée en utilisant la recherche accélérée avant ou arrière pendant la lecture.



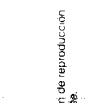
Keep pressing for fast-forward search. Mantenga presionado para la búsqueda progresiva rápida. Mantenga presionado para la búsqueda acelerada atrás.

• Maintenez pressée la touche; la lecture de recherche commence lentement et puis la vitesse augmente progressivement.  
• Comme un léger son (environ le quart du niveau de lecture) peut être audible dans le mode de recherche, relâchez la touche quand la position voulue est atteinte en contrôlant le son.

**Lecture répétée (en utilisant la télécommande)**

Appuyez sur la touche REPEAT avant ou pendant la lecture. Une seule piste ou toutes les pistes peuvent être répétées.

Une seule piste ou toutes les pistes à répéter peuvent être spécifiées. A chaque pression sur la touche REPEAT, le mode sera changé d'une seule piste (S), à toutes les pistes (A), à mode d'effacement, dans cet ordre.



**• Répétition d'une seule piste (S)**

La piste courante sera lue plusieurs fois.

**• Répétition de toutes les pistes (A)**

Toutes les pistes d'un disque seront lues plusieurs fois.

**Lecture aléatoire (en utilisant la télécommande)**

Appuyez sur la touche RANDOM et chaque piste sur un disque est lue une fois, dans un ordre aléatoire.

**MANIPULATION DES CASSETTES**

**Cassettes**  
1. Une bande qui a du feu peut être source de mauvais fonctionnement. Utilisez un carton ou un objet semblable pour la rendre comme indiqué.  
2. Pour éviter l'effacement accidentel d'un enregistrement, ôter les languettes avec un tournevis. Reboucher les orifices avec du ruban adhésif si vous devez effacer ou réenregistrer après que les languettes aient été cassées.  
3. Les cassettes C-120 ne sont pas recommandées car elles sont enclim à de mauvais fonctionnements.

**Mise en place d'une cassette PUSH EJECT sur le porte cassette pour ouvrir.**  
1. Appuyez sur la section PUSH EJECT del porte cassette pour ouvrir.  
2. Placez la cassette comme montré.  
3. Fermez le porte cassette en pressant légèrement. S'assurer d'obtenir le pression adéquat indiquant que le porte-cassette est fermé correctement.

**MANIPULACION DE CASSETTES DE CINTA**

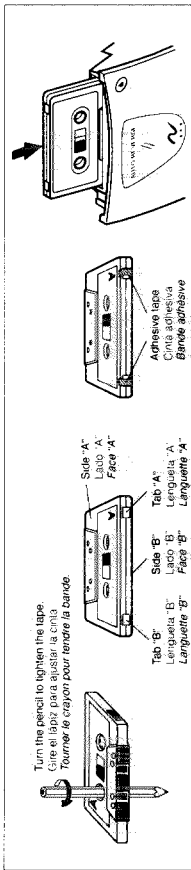
**Cassettes de cinta**  
1. La cinta floja puede causar problemas de funcionamiento. Utilice un tapón u otro objeto similar y ensénelo gentilmente la cinta tal como se muestra.  
2. Para evitar borradas grabaciones accidentalmente, extraiga las lengüetas con un destornillador. Para borrar la cinta después de haber extraído las lengüetas, selle las ranuras con cinta adhesiva.  
3. Se recomienda el uso de cassettes C-120 porque tienen tendencia a fallar.

**Colocación de cassettes**  
1. Presione la sección PUSH EJECT del portacassete para abrirlo.  
2. Extraiga el cassette como se muestra.  
3. Cierre el portacassete presionando suavemente. Cuando oiga un "click" ello indica que el portacassete está correctamente cerrado.

**HANDLING CASSETTE TAPES**

**Cassette tapes**  
1. Loose tape may cause trouble. Using a pencil or like object, gently lighten the tape as shown.  
2. To prevent recordings from being erased accidentally, remove the tabs with a screwdriver, etc. Reseal the slots with adhesive tape to erase and re-record after tabs have been removed.  
3. C-120 cassettes are not recommended because they are prone to malfunction.

**Cassette loading**  
1. Press the PUSH EJECT section on the cassette holder to open the holder.  
2. Load a cassette as shown.  
3. Close the cassette holder by pressing it gently. Listen for the click indicating that the holder is securely shut.



**Note:** If the power is switched off while tape is running, it may be impossible to remove the cassette. If this happens, switch the power on again before attempting to remove the cassette.

**Auto tape select mechanism**  
This unit has an Auto Tape Select mechanism which distinguishes between different types of tape using detection holes in the cassette. After the type of tape has been detected, bias and equalization suitable for the tape are set.

- Cassettes with detection holes:
  - CrO<sub>2</sub> tape (EQ: 70 µs)..... Type IV
  - CrO<sub>2</sub> tape (EQ: 70 µs)..... Type II
  - Normal tape (EQ: 120 µs)..... Type I
- Cassettes without detection holes:
  - CrO<sub>2</sub> tape (EQ: 70 µs)..... Type IV
  - CrO<sub>2</sub> tape (EQ: 70 µs)..... Type II
  - Normal tape (EQ: 120 µs)..... Type I

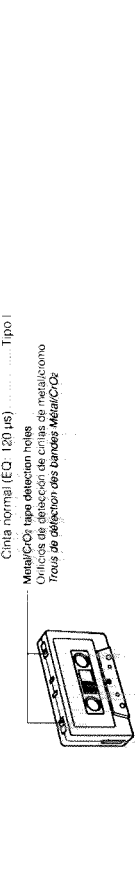
**Mecanismo de selección automática de cintas**  
Este aparato posee un mecanismo de selección automática de la cinta que distingue los diferentes tipos de cinta por medio de orificios de detección en el cassette. Después de haber detectado el tipo de cinta, la unidad establece la polarización y equalización adecuadas para la cinta.

- Cassettes with detection holes:
  - CrO<sub>2</sub> tape (EQ: 70 µs)..... Type IV
  - CrO<sub>2</sub> tape (EQ: 70 µs)..... Type II
  - Normal tape (EQ: 120 µs)..... Type I
- Cassettes without detection holes:
  - CrO<sub>2</sub> tape (EQ: 70 µs)..... Type IV
  - CrO<sub>2</sub> tape (EQ: 70 µs)..... Type II
  - Normal tape (EQ: 120 µs)..... Type I

**Remarque:** Si l'alimentation est coupée alors que la bande défile, il peut être impossible de retirer la cassette. Dans ce cas, reformer l'alimentation avant d'essayer de retirer la cassette.

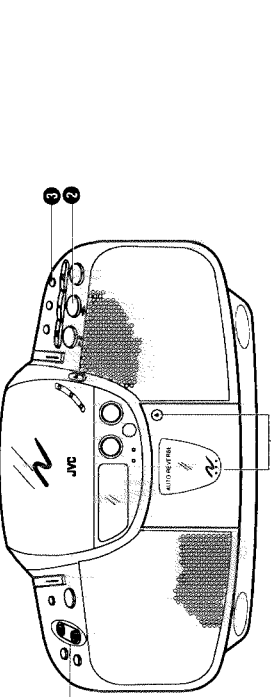
**Mécanisme de sélection automatique de bandes**  
Cet appareil comporte un mécanisme de sélection automatique de bande qui reconnaît divers types de bandes grâce aux trous de détection dans les cassettes. Une fois le type de bande détecté, la polarisation et l'égalisation sont réglées pour correspondre au mieux à la bande.

- Cassettes avec trous de détection:
  - Bande CrO<sub>2</sub> (EQ: 70 µs)..... Type IV
  - Bande CrO<sub>2</sub> (EQ: 70 µs)..... Type II
  - Bande normale (EQ: 120 µs)..... Type I
- Cassettes sans trous de détection:
  - Bande CrO<sub>2</sub> (EQ: 70 µs)..... Type IV
  - Bande CrO<sub>2</sub> (EQ: 70 µs)..... Type II
  - Bande normale (EQ: 120 µs)..... Type I



**CASSETTE PLAYBACK**

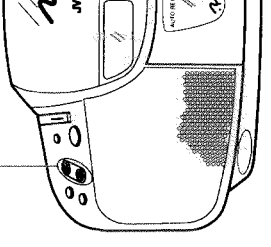
Operate in the order shown



1. Load a cassette tape with side A facing out.
  2. Press the TUNER button. The power is switched on and the TAPE mode is engaged to start tape playback.
  3. When battery power is used, switch on the POWER button first, then perform operations.
  4. Select the reverse mode (←→) (↔).
  5. Adjust.
1. Coloque un cassette de cinta con el lado A conectado para iniciar la reproducción. (Se conecta la alimentación y se activa el modo TAPE para iniciar la reproducción de la cinta).
  2. Cuando se utiliza la alimentación de la pila, primero conecte ON el botón POWER y efectúe las operaciones deseadas.
  3. Seleccione el modo de inversión (←→) (↔).
  4. Ajuste.

**RADIO RECEPTION**

Operate in the order shown



1. Press the TUNER button.
  2. The power is switched on and a band and radio frequency will be shown in the display window.
  3. When battery power is used, switch on the POWER button first, then perform operations.
  4. Select the band.
  5. Tune to the required station.
  6. Adjust.
1. Presione el botón TUNER.
  2. Se conecta la alimentación y aparece en el visor una banda y una frecuencia de radio.
  3. Cuando se utiliza la alimentación de la pila, primero conecte ON el botón POWER y efectúe las operaciones deseadas.
  4. Seleccione la banda.
  5. Sintonice la estación deseada.
  6. Ajuste.

• Después de colocar un cassette de cinta, simplemente presione el botón TAPE (▶) y la alimentación se pone en marcha y la cinta comienza a ser reproducida. (Para seleccionar el sentido de reproducción, presione el botón TAPE (▶) o (◀) o (▶) o (◀) de la dirección de la cinta.)

• La indicación en el visor cambia del modo de reproducción a la dirección de la cinta. Para reposicionar el controlador a "0000", presione el botón COUNTER RESET en la unidad de control remoto.

• La cinta está siendo reproducida en el modo de inversión colocado en el modo (↔) (reproducción de un solo lado) o en el modo (↔) (reproducción de ambos lados). Si se cambia la dirección de la reproducción, la reproducción de ambos lados. Cuando se activa el modo de inversión en el modo (↔) (reproducción de un solo lado), la cinta es reproducida continuamente en ambos lados hasta que usted pare la operación.

**Método para avanzar/rebobinar rápido la cinta**

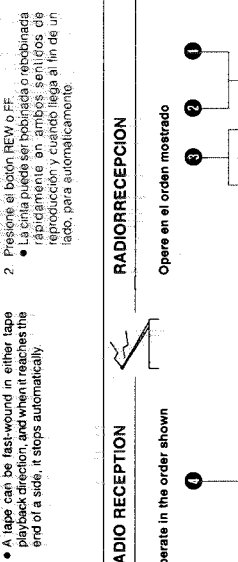
1. Presione el botón TAPE (▶) para activar el modo TAPE.
2. Presione el botón REW o FF. El cassette se moverá automáticamente en ambas direcciones de reproducción y cuando llega al fin de un lado, para automáticamente.

**Comment enrayer rapidement des bandes**

1. Appuyer sur la touche TAPE (▶) (pour passer en mode TAPE).
2. Appuyer sur la touche REW ou FF. Une bande peut être enroulée rapidement dans les deux sens de la reproduction jusqu'à atteindre la fin d'une face, elle s'arrête automatiquement.

**REPRODUCTION DE CASSETTES**

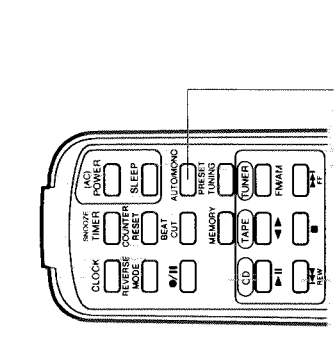
Operate in the order shown



1. Chargez une cassette avec la face A vers l'extérieur pour lancer la lecture. (L'alimentation est mise sur marche et le mode TAPE est engagé pour lancer la lecture de la bande).
  2. Lorsque l'alimentation sur piles est utilisée, mettez d'abord sur marche la touche POWER, puis effectuez les opérations.
  3. Sélectionner le mode d'inversion (←→) (↔).
  4. Régler.
1. Presione el botón TUNER.
  2. Se conecta la alimentación y aparece en el visor una banda y una frecuencia de radio.
  3. Cuando se utiliza la alimentación de la pila, primero conecte ON el botón POWER y efectúe las operaciones deseadas.
  4. Seleccione la banda.
  5. Sintonice la estación deseada.
  6. Ajuste.

**RADIORECEPCION**

Operate in the order shown



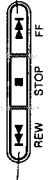
1. Press the TUNER button.
  2. The power is switched on and a band and radio frequency will be shown in the display window.
  3. When battery power is used, switch on the POWER button first, then perform operations.
  4. Select the band.
  5. Tune to the required station.
  6. Adjust.
1. Presione el botón TUNER.
  2. Se conecta la alimentación y aparece en el visor una banda y una frecuencia de radio.
  3. Cuando se utiliza la alimentación de la pila, primero conecte ON el botón POWER y efectúe las operaciones deseadas.
  4. Seleccione la banda.
  5. Sintonice la estación deseada.
  6. Ajuste.

**STEREO AUTO/MONO button (using the remote control unit)**

**Auto mode:**  
Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.  
**MONO:**  
Set to this position when FM stereo reception is not possible. The unit automatically enters Auto mode.

- **Seek tuning**  
Press the  $\blacktriangleleft$  or  $\blacktriangleright$  button for one second or more. The unit enters the seek tuning mode to tune in the nearest station automatically, so the broadcast can be heard.
- **Manual tuning**  
Each time the  $\blacktriangleleft$  or  $\blacktriangleright$  button is pressed, the unit steps through the current frequency band. Tuning is done in steps of 100 kHz for FM and 10 kHz for AM.

Press to move to lower frequencies  
Presione para disminuir la frecuencia  
Presser pour diminuer la fréquence



**Notes:**  
• When seek tuning to the required station is not possible because the broadcast signal is too weak, press the  $\blacktriangleleft$  or  $\blacktriangleright$  button momentarily to perform manual tuning.  
• When the power is set to STANDBY or another mode (TAPE or CD) is selected, the last tuned power is stored in memory. When the power is switched on again and the TUNER button is pressed, the same station will be tuned to.

**Botón STEREO AUTO/MONO (utilizando la unidad de control remoto)**

**Modo automático:**  
Colóquelo en esta posición cuando escucha o graba una radiodifusión estéreo de FM. El indicador STEREO se enciende cuando se recibe una radiodifusión estéreo de FM.  
**MONO:**  
Colóquelo en esta posición cuando la radiodifusión estéreo de FM no es posible. Si se sintoniza otra estación en el modo MONO, la unidad ingresará automáticamente en el modo automático.

- **Búsqueda de sintonía**  
Presione el botón  $\blacktriangleleft$  o  $\blacktriangleright$  durante un segundo o más. La unidad ingresa en el modo de búsqueda de sintonía, así como automáticamente la estación más próxima, escuchándose la radiodifusión.
- **Sintonización manual**  
Cada vez que presiona el botón  $\blacktriangleleft$  o  $\blacktriangleright$ , la unidad pasa a través de la banda de frecuencia actual. La sintonización se realiza en pasos de 100 kHz para FM y de 10 kHz para AM.

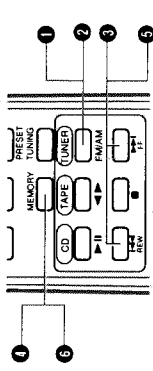
Press to move to higher frequency  
Presione para aumentar la frecuencia  
Presser pour augmenter la fréquence

**Remarques:**  
• Cuando la búsqueda de sintonía de la estación deseada no es posible debido a que la señal de radiodifusión es demasiado débil, presione el botón  $\blacktriangleleft$  o  $\blacktriangleright$  para efectuar la sintonización manual.  
• Cuando se coloca la alimentación en STANDBY o se selecciona otro modo (TAPE o CD), la última frecuencia sintonizada es almacenada en memoria. Cuando comienza la sintonización otra vez, y presiona el botón TUNER, la unidad sintoniza la misma estación.

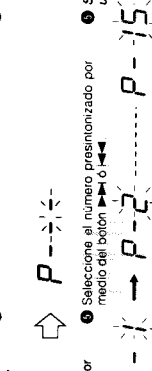
**Touche STEREO AUTO/MONO (en utilisant la télécommande)**

**Mode automatique:**  
Régliez sur cette position pour écouter ou enregistrer une émission FM stéréo. L'indicateur STEREO s'allume quand une émission FM stéréo est reçue.  
**MONO:**  
Régliez sur cette position si la réception FM stéréo contient du bruit.  
Si une autre station est sintonisée en mode MONO, l'appareil passe automatiquement en mode Auto.

- **Sintonisation par recherche**  
Appuyez sur la touche  $\blacktriangleleft$  ou  $\blacktriangleright$  pendant plus d'une seconde; l'appareil passe en mode de recherche pour se synchroniser automatiquement sur la station la plus proche, ainsi l'émission peut être entendue.
- **Sintonisation manuelle**  
À chaque pression sur la touche  $\blacktriangleleft$  ou  $\blacktriangleright$ , la fréquence change dans la gamme de fréquence courante. La sintonisation est par pas de 100 kHz en FM et 10 kHz en AM.



- 1 Presione el botón TUNER.
- 2 Seleccione la banda de FM por medio del botón TUNER.
- 3 Sintonice la estación deseada.
- 4 Seleccione el número predefinido por medio del botón  $\blacktriangleleft$  o  $\blacktriangleright$ .
- 5 Seleccione el número predefinido por medio del botón  $\blacktriangleleft$  o  $\blacktriangleright$ .



- 1 Press the TUNER button.
- 2 Select the FM band using the TUNER button.
- 3 Tune to the required station.
- 4 Press the MEMORY button.
- 5 Select the preset number using the  $\blacktriangleleft$  or  $\blacktriangleright$  button.
- 6 Repeat the above procedure for each of the other stations and the other band.

**Notes:**  
• The previous stored station is erased when a new station is stored, because the new station's frequency replaces the previous frequency.  
• When listening to AM broadcast, noise may be heard if the remote control unit is used.

**Préintonisation**

- Les stations doivent être préintégréées avant de procéder à cette opération.
- 1 Appuyez sur la touche TUNER.
- 2 Sélectionnez la gamme en utilisant la touche TUNER.
- 3 Appuyez sur la touche PRESET TUNING pour sélectionner la station préintégréée voulue.

**Utilisation des antennes**



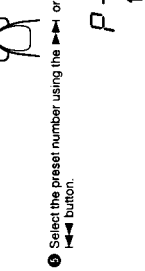
**Remarque:**  
L'antenne à noyau de ferrite incorporée peut capter des interférences provenant d'un téléviseur dans le voisinage et provoquer par conséquent une mauvaise réception des émissions AM.

**Préintonisation**

Esta función busca la banda actual, detectando frecuencias usadas para señales de memoria las primeras 15 frecuencias. Las frecuencias sintonizadas se almacenan en memoria automáticamente en orden de frecuencia creciente (15 estaciones en cada banda).

- **Préintonisation**  
Les stations doivent être préintégréées avant de procéder à cette opération.
- 1 Appuyez sur la touche TUNER.
- 2 Sélectionnez la gamme en utilisant la touche TUNER.
- 3 Appuyez sur la touche PRESET TUNING pour sélectionner la station préintégréée voulue.

**Utilisation des antennes**



**Remarque:**  
Le noyau de ferrite incorporé de l'antenne peut capter des interférences de la télévision dans le voisinage et perturber la réception de l'AM.

**Auto preset tuning**

This function scans the current band, detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically. The first 15 frequencies of broadcasting signals can be stored in memory automatically in the order of increasing frequency, (15 stations in each band).

**Presetting stations (using the remote control unit)**

15 stations in each band can be preset as follows:  
• Example: (Presetting an FM station broadcasting on 103.5 MHz to preset button "15")

**Préintonisation automatique**

Cette fonction balaye la gamme courante, détectant les fréquences utilisées par les signaux d'émission, et met automatiquement les 15 premières fréquences en mémoire.

- Appuyez sur la touche AUTO PRESET pendant plus de 2 secondes. Les fréquences sintonisées sont stockées automatiquement en mémoire (15 stations dans chaque gamme).

**Préréglage des stations (en utilisant la télécommande)**

15 stations dans chaque gamme peuvent être préintégrées comme suit:  
• Exemple: (Préréglage d'une station FM diffusant sur 103.5 MHz pour la touche de préintégré "15")

RECORDING

GRABACION

ENREGISTREMENT

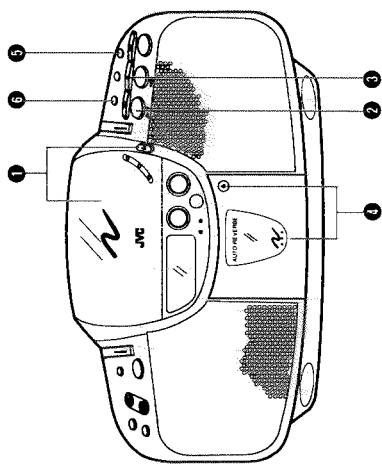
- During recording, the ALC (Automatic Level Control) circuit automatically optimizes the recording level, so manual recording level adjustment is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

**Note:**  
This unit has recording characteristics suitable for normal and CrO2 tapes. Normal and CrO2 tapes have different characteristics from metal tapes.

Synchronized recording with the CD player

- In this system, the CD player starts play when the cassette deck enters the recording mode.

Operate in the order shown



- 1 Load a CD and close the CD door.
- 2 Set to the CD mode.
- 3 Press the **■** button to set stop mode.
- 4 Load a cassette with side A facing out. (Wind past the tape leader before starting recording.)
- 5 Select the required reverse mode (↵ or ↶).
- 6 Press the ONE TOUCH REC button. (The recording indicator lights up.)
- 7 Recording starts in the forward direction and CD play starts automatically.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- When the CD player stops, the tape deck stops automatically.
- To stop recording in the middle, press the **■** button.

**Note:**  
• During CD synchro recording, the **▶▶** and **(←←)** buttons do not function.

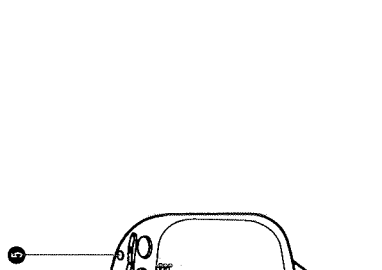
- Durante la grabación, el circuito ALC (control automático de nivel), optimiza automáticamente el nivel de grabación, haciendo innecesario el ajuste manual del nivel de grabación.
- Verifique que la lengüeta de seguridad del cassette no esté rota.

**Note:**  
Esta unidad posee características de grabación adecuadas para cintas normales y de CrO2. Las cintas normales y de CrO2 tienen características diferentes que las cintas de metal.

Grabación sincronizada con el reproductor de CD

- En este sistema, el reproductor de CD inicia la reproducción cuando la platina de cassette ingresa en el modo de grabación.

Operar en el orden mostrado



- 1 Coloque un CD y cierre el portadisco de CD.
- 2 Active el modo de CD.
- 3 Presione el botón **■** para activar el modo de parada.
- 4 Coloque un cassette con el lado A hacia afuera. (Pase el líder de cinta antes de iniciar la grabación.)
- 5 Seleccione el modo de inversión deseado (↵ o ↶).
- 6 Al presionar el botón ONE TOUCH REC, se inicia la grabación sincronizada. (Se enciende la luz indicadora de grabación.)
- 7 La grabación se inicia hacia adelante y se inicia automáticamente la reproducción del CD.
- En la cinta quedan automáticamente sin grabar secciones de 4 segundos aprox.
- Cuando el reproductor de CD para la platina de cinta para automáticamente.
- Para detener la grabación en mitad de la misma, presione el botón **■**.

**Note:**  
• Durante la grabación sincronizada desde CD, los botones **▶▶** y **(←←)** no funcionan.

**When non-recorded section between tunes is not required...**  
1 Press the **▶▶** button twice. The CD player enters the pause mode.  
2 Press the ONE TOUCH REC button to start recording.

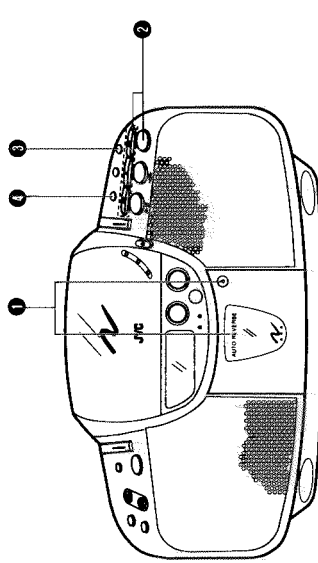
**Note:**  
• Depending on the CD used, non-recorded sections of different lengths may be left between tunes.

• **CD complete recording function (Synchro recording mode only)**  
If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:  
• When less than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the previous track.  
• When more than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current track.

How to rewind tapes

1. Press the TAPE (←▶) button (to set TAPE mode).
2. Press the REW button.

Recording from the radio Operate in the order shown



- 1 Load a cassette with side A facing out. (Wind past the tape leader before starting recording.)
- 2 Press the TUNER button.
- 3 Tune to the required station.
- 4 Press the ONE TOUCH REC button.
- 5 Recording will start.  
• The function switch is locked and its position cannot be changed.
- 6 To stop recording temporarily, press the **▶▶** button (recording indicator will blink). To resume recording, press the **▶▶** button again.

**Quando no desas una sección sin grabar entre músicas...**  
1 Presione dos veces el botón CD ▶▶. El reproductor de CD ingresa en el modo de pausa.  
2 Presione el botón ONE TOUCH REC para iniciar la grabación.

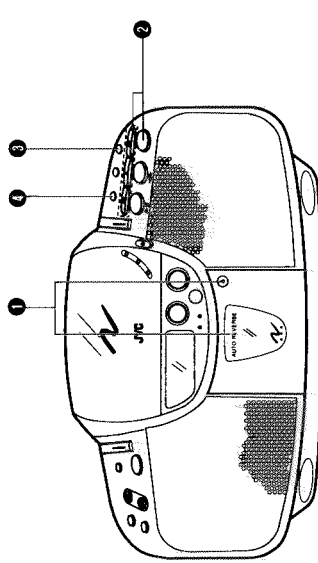
**Nota:**  
• Dependiendo del CD utilizado es posible dejar entre músicas secciones sin grabar de diferentes longitudes.

• **Función de grabación del CD completo (modo de grabación sincronizada únicamente)**  
Si la cinta es invertida mientras el CD está siendo reproducido, la grabación se efectuará en el lado opuesto de la cinta, de la siguiente manera:  
• Cuando se hayan grabado menos de 10 segundos de la última música en el lado frontal de la cinta, la grabación del otro lado iniciará desde el principio de la pista anterior.  
• Cuando se hayan grabado más de 10 segundos de la última pista en el lado frontal de la cinta, la grabación del otro lado se iniciará desde el principio de la pista actual.

Método para rebobinar la cinta

1. Presione el botón TAPE (←▶) para activar el modo TAPE.
2. Presione el botón REW.

Grabación desde la radio Opere en el orden mostrado



- 1 Coloque un cassette con el lado A apuntado hacia afuera. (Bobine hasta pasar el extremo no grabable de la cinta antes de iniciar la grabación.)
- 2 Presione el botón TUNER.
- 3 Sintonice la estación deseada.
- 4 Presione el botón ONE TOUCH REC.
- 5 Comenzará la grabación.  
• El conmutador de función está bloqueado y no se puede cambiar su posición.
- 6 Para detener la grabación temporalmente, presione el botón **▶▶** (la indicación de grabación). Para continuar la grabación, presione otra vez el botón **▶▶**.

**Quando una sección non enregistra entre les morceaux n'est pas nécessaire...**  
1 Appuyer deux fois sur la touche CD ▶▶. Le lecteur CD passe en mode de pause.  
2 Appuyer sur la touche ONE TOUCH REC pour lancer l'enregistrement.

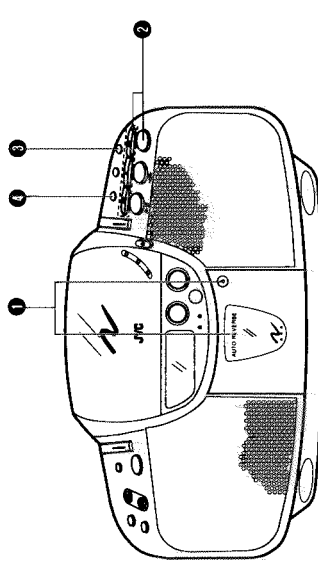
**Remarque:**  
• Enregistrer des sections non enregistrées de différentes longueurs peuvent être laissées entre les morceaux.

• **Fonction d'enregistrement CD complet (mode d'enregistrement synchronisé seulement)**  
Si la bande est inversée alors qu'un disque est lu, l'enregistrement sera fait sur la face inverse de la bande, de la façon suivante:  
• Lorsque moins de 10 secondes de la bande à être enregistrée, l'enregistrement sur l'autre face de la bande commencera à partir du début de la piste précédente.  
• Si plus de 10 secondes du dernier morceau ont été enregistrées, l'enregistrement sur l'autre face de la bande commencera à partir du début de la piste courante.

Rembobinage des bandes

1. Appuyer sur la touche TAPE (←▶) (pour passer en mode TAPE).
2. Appuyer sur la touche REW.

Enregistrement à partir de la radio Procéder dans l'ordre indiqué



- 1 Charger une cassette avec la face A vers l'extérieur. (Enrouler la bande guide avant de commencer l'enregistrement.)
- 2 Appuyer sur la touche TUNER.
- 3 Sélectionner la station voulue.
- 4 Appuyer sur la touche ONE TOUCH REC.
- 5 L'enregistrement commencera.  
• Le commutateur de fonction est verrouillé et sa position ne peut pas être changée.
- 6 Pour arrêter momentanément l'enregistrement, appuyer sur la touche **▶▶** (l'indicateur d'enregistrement clignotera). Pour reprendre l'enregistrement, appuyer à nouveau sur la touche **▶▶**.

**BEAT CUT button (using the remote control unit)**

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. In such case, set this button after setting the deck to the record mode so that the beats are eliminated. Normally set this button to "CUT-1".



CUT-1 → CUT-2 → CUT-3

**Botón BEAT CUT (utilizando la unidad de control remoto)**

Cuando graba una radiodifusión de AM, es posible que se escuchen compases inaudibles cuando escucha la radiodifusión. En tal caso, ajuste este botón después de activar el modo de grabación de la platina, para eliminar los compases. Normalmente, ajuste este botón en "CUT-1".

**Touche BEAT CUT (en utilisant la télécommande)**

En enregistrant une émission AM, des battements qui ne sont pas entendus lors de l'écoute de l'émission peuvent être produits. Dans un tel cas, régler cette touche après réglage de la platine en mode d'enregistrement pour que les battements soient éliminés. Normalement, régler cette touche sur "CUT-1".

**COUNTER RESET button (using the counter control unit)**

Before recording, press the TAPE (▶▶) button to engage the TAPE mode. Then press the ■STOP button to change the display to the Counter mode.



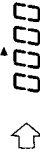
**Botón COUNTER RESET (utilizando la unidad de control remoto)**

1. Antes de grabar, presione el botón TAPE (▶▶) para activar el modo TAPE. Luego presione el botón ■STOP para cambiar la indicación a la del modo de contador.



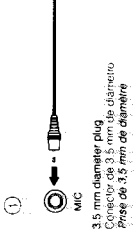
**Botón COUNTER RESET (utilizando la unidad de control remoto)**

1. Antes de grabar, presione el botón TAPE (▶▶) para activar el modo TAPE. Luego presione el botón ■STOP para cambiar la indicación a la del modo de contador.



**MICROPHONE MIXING**

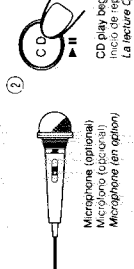
Microphone sound can be mixed with source sound.



• Example: Mixing sound from microphone and CD

**MEZCLADO DE MICROFONOS**

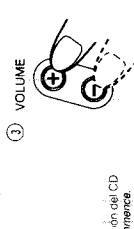
El sonido del micrófono puede ser mezclado con el sonido de la fuente



• Ejemplo: Mezclado del sonido del micrófono y del CD

**MELANGE DE MICROPHONE**

Le son du microphone peut être mixé avec le son de source.



• Exemple: Mixage de son d'un microphone et d'un CD

**Operate in the order shown**

1. Connect a microphone to the MIC jack. (If there is a switch on the microphone, switch it on.)
2. Press the source sound (CD/TAPE/TUNER) button to select the source sound.
3. Press the VOLUME button to adjust the mixed sound.

**To record the mixed sound**

1. To record this mixed sound onto a tape in the standby mode, press the ■II button to engage record mode following the above procedure, then press the ■II button.

**Notes:**

- Use the microphone as far away from the set as possible. When the microphone is too near the speakers, howling may occur.
- Disconnect the microphone from the MIC jack after use.

**Operate in the order shown**

1. Connect a microphone to the MIC jack. (If there is a switch on the microphone, switch it on.)
2. Press the source sound (CD/TAPE/TUNER) button to select the source sound.
3. Press the VOLUME button to adjust the mixed sound.

**To record the mixed sound**

1. To record this mixed sound onto a tape in the standby mode, press the ■II button to engage record mode following the above procedure, then press the ■II button.

**Notes:**

- Use the microphone as far away from the set as possible. When the microphone is too near the speakers, howling may occur.
- Disconnect the microphone from the MIC jack after use.

**Procéder dans l'ordre indiqué**

1. Branchez un microphone à la prise MIC. (S'il y a un commutateur sur le microphone, le régler sur marche.)
2. Sélectionnez le son de source (CD/TAPE/TUNER).
3. Réglez le son source sélectionné.

**Enregistrement du son mixé**

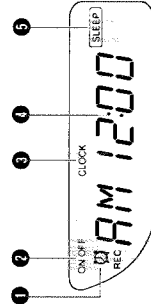
1. Pour enregistrer ce son mixé sur une bande dans la platine, appuyer sur la touche ■II pour passer en mode d'attente d'enregistrement en suivant la procédure ci-dessus, puis appuyer sur la touche ■II.

**Remarques:**

- Utilisez le microphone le plus loin possible de l'appareil. Si le microphone est trop près des haut-parleurs, il peut y avoir un sifflement.
- Débranchez le microphone de la prise MIC après usage.

**CLOCK ADJUSTMENT**

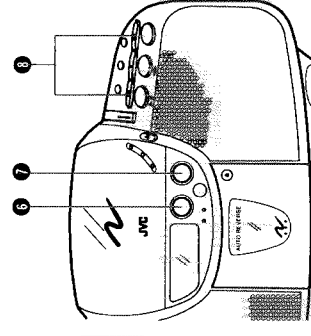
Names of parts in the clock/timer section, and their functions:



1. Timer mode indicator
2. Timer indicator (ON/OFF)
3. CLOCK indicator
4. Time display
5. SLEEP indicator
6. CLOCK button
7. TIMER/SNOOZE button
8. SLEEP button

**AJUSTE DEL RELOJ**

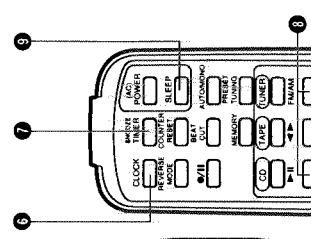
Nombre de las partes de la sección del reloj/ temporizador y sus funciones:



1. Indicador del modo de temporizador
2. Indicador de activación/desactivación (ON/OFF) del temporizador
3. Indicador CLOCK
4. Indicador de hora
5. Indicador SLEEP
6. Botón del reloj (CLOCK)
7. Botón TIMER/SNOOZE
8. Botón del temporizador de desconexión (SLEEP)

**REGLAGE DE L'HORLOGE**

Noms des pièces dans la section horloge/ minuterie, et leurs fonctions:



1. Indicateur de mode de minuterie
2. Indicateur de minuterie (marche/arrêt) (ON/OFF)
3. Indicateur d'horloge (CLOCK)
4. Affichage de l'heure
5. Indicateur de minute de sommeil (SLEEP)
6. Touche d'horloge (CLOCK)
7. Touche TIMER/SNOOZE
8. Touche de minuterie de sommeil (SLEEP)

**Eftacement**

Une bande enregistrée peut être effacée en enregistrant du nouveau matériel sur le précédent.

Pour effacer une bande sans faire de nouvel enregistrement...

1. Appuyez sur la touche TAPE (▶▶) pour passer en mode TAPE.
2. Appuyez sur la touche ■STOP.
3. Introduisez la cassette avec la face à effacer tournée vers le haut.
4. Appuyez deux fois sur la touche ■II.

Il peut être illégal d'enregistrer ou de reproduire des œuvres sous copyright sans le consentement du détenteur des droits d'auteur.

**Borrado**

La cinta grabada puede ser borrada grabando otro material sobre el material anterior.

Para borrar una cinta sin efectuar una nueva grabación...

1. Presione el botón TAPE (▶▶) para activar el modo TAPE.
2. Presione el botón ■STOP.
3. Introduzca una cassette con el lado a ser borrar en la parte superior.
4. Presione el botón ■II dos veces.

Puede ser ilegal el grabar o reproducir material con derechos de autor sin el consentimiento del dueño de los mismos.

**Erasing**

A recorded tape can be erased by recording new material over the previous material.

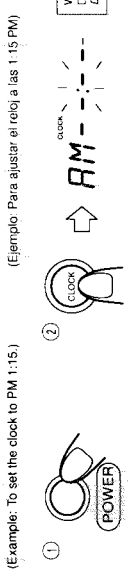
To erase a tape without making a new recording...

1. Press the TAPE (▶▶) button to set to the TAPE mode.
2. Press the ■STOP button.
3. Insert the cassette with the side to be erased facing out.
4. Press the ■II button twice.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.



**Setting the current time (when this unit is used for the first time)**  
(Example: To set the clock to PM 1:15)



1. Press the POWER button to ON.
2. Press the CLOCK button for 2 seconds or more; "----" will blink in the display.
3. Set to PM 1:15 by pressing the and buttons. (When the button is kept pressed, continuously.)
4. Press the CLOCK button, the time will light in the display.

• Each time the hour's digits change from 11 to 12, the display alternates between AM and PM. (12 midnight is indicated as "AM 12:00" and 12 noon is indicated as "PM 12:00".)

• To set to the nearest second... Press the CLOCK button when you hear the time signal from a TV or radio.

**Notes:**

- Before performing timer recording or playback, it is necessary to set the current time.
- When the power cord of the AC adapter is plugged in again after being disconnected or power is restored after a power failure, CLOCK will blink in the display. Set the current time again.
- To confirm the current time (when the power is ON). Press the CLOCK button. When the button is pressed again, the display shows the previously engaged mode.

**Ajuste de la hora actual (cuando se usa la unidad por primera vez)**  
(Ejemplo: Para ajustar el reloj a las 1:15 PM)



1. Coloque el botón POWER en ON.
2. Presione el botón CLOCK durante 2 segundos o más para que "----" parpadee en la indicación.
3. Coloque en 1:15 PM presionando los botones and . (Si se mantiene el botón pulsado, la indicación de minutos/hora cambia continuamente.)
4. Presione el botón CLOCK, la hora se iluminará en el visor.

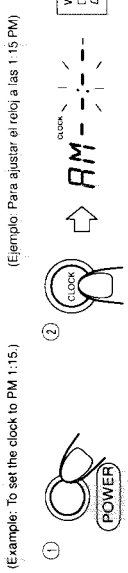
• Cada vez que los dígitos de la hora cambian de 11 a 12, la indicación cambia entre AM y PM. (las 12 de la noche es indicada como "AM 12:00" y las 12 del día es indicada como "PM 12:00".)

• Para ligar los segundos en forma más exacta. Presione el botón CLOCK al escuchar la señal horaria de la televisión o la radio.

**Remarques:**

- Antes de efectuar la grabación o reproducción por temporizador, es necesario ajustar la hora actual.
- Cuando se conecta otra vez el cordón de alimentación al adaptador después de haber estado desconectado o se restablece la energía eléctrica después de un corte de la misma, "CLOCK" parpadeará en la indicación. Ajuste la hora actual otra vez.
- Confirmación de la hora actual (cuando la alimentación está conectada ON). Presione el botón CLOCK. Al presionarlo otra vez la indicación mostrará el modo que estaba activado antes.

**Régla de l'heure actuelle (quand cet appareil est utilisé pour la première fois)**  
(Exemple: pour régler l'horloge à PM 1:15.)



1. Régler la touche POWER sur ON.
2. Appuyer sur la touche CLOCK pendant 2 secondes ou plus; "----" clignotera dans l'affichage.
3. Régler sur PM 1:15 en appuyant sur les touches and . (Quand la touche est maintenue enfoncée, l'indication des heures/minutes change continuellement.)
4. Appuyer sur la touche CLOCK; l'heure sera allumée dans l'affichage.

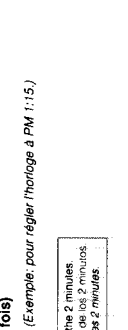
• Chaque fois que les chiffres des heures passent de 11 à 12, l'indication alterne entre AM et PM. (Minuit est indiquée sous la forme "AM 12:00" et midi sous la forme "PM 12:00".)

• Pour régler à la seconde près. Appuyer sur la touche CLOCK au moment d'un signal horaire de la télévision ou de la radio.

**Remarques:**

- Avant d'effectuer l'enregistrement ou la lecture par minuterie, il est nécessaire de régler l'heure actuelle.
- Lorsque le cordon d'alimentation de l'adaptateur secteur est branché à nouveau après avoir été débranché ou que l'énergie est remise après une panne de courant, "CLOCK" clignotera dans l'affichage. Régler à nouveau l'heure courante.
- Pour confirmer l'heure courante (quand l'alimentation est sur marche). Appuyer sur la touche CLOCK. Quand la touche est à nouveau pressée, l'affichage montre le mode engagé précédemment.

**Set the start time.**  
(Example: To set the timer to PM 12:15.)

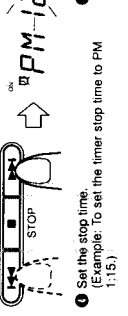


1. Ajuste el tiempo de inicio (Ejemplo: Para ajustar el temporizador a las 12:15 PM)
2. Press to set the start time. Presione para fijar la hora de desconexión del temporizador.
3. Press to set the timer. Presione para fijar la hora de mise en marche.
4. Ajuste la hora de parada. (Ejemplo: Para ajustar la hora de parada del temporizador a las PM 1:15.)

When the button is pressed to select the timer mode, the mode changes from TUNER (timer reception or a broadcast), to TUNER/REC (timer recording or a broadcast), to CD (timer play of a CD), to TAPE (timer playback of a tape), in this order.

Si presiona el botón para seleccionar el modo de temporizador, el modo cambia de TUNER (recepción por minutería o recepción de una radiodifusión por TUNER/REC (grabación de una radiodifusión por temporizador), a CD (reproducción de CD por minutería de una banda), en este orden.

**Adjust the timer.**  
(Example: To set the timer stop time to PM 1:15.)

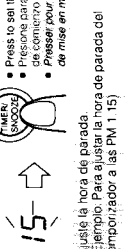


1. Ajuste la hora de parada. (Ejemplo: Para ajustar la hora de parada del temporizador a las PM 1:15.)
2. Press to set the timer stop time. Presione para fijar la hora de desconexión del temporizador.
3. Select the TIMER mode. El modo de temporizador seleccionado aparece en la indicación.
4. Press the button. When the button is pressed to select the timer mode, the mode changes from TUNER (timer reception or a broadcast), to TUNER/REC (timer recording of a broadcast), to CD (timer play of a CD), to TAPE (timer playback of a tape), in this order.

When the button is pressed to select the timer mode, the mode changes from TUNER (timer reception or a broadcast), to TUNER/REC (timer recording of a broadcast), to CD (timer play of a CD), to TAPE (timer playback of a tape), in this order.

Si presiona el botón para seleccionar el modo de temporizador, el modo cambia de TUNER (recepción por minutería o radiodifusión por TUNER/REC (grabación de una radiodifusión por temporizador), a CD (reproducción de CD por minutería de una banda), en este orden.

**Regler l'heure de mise en marche.**  
(Exemple: Pour régler la minuterie sur PM 12:15.)

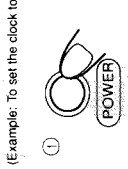


1. Régler l'heure de mise en marche. (Exemple: Pour régler la minuterie sur PM 12:15.)
2. Press to set the timer stop time. Presione para fijar la hora de desconexión del temporizador.
3. Appuyer pour régler l'heure de mise en marche.
4. Régler l'heure de mise à l'arrêt. (Exemple: Pour régler la minuterie sur PM 1:15.)

Quand la touche est pressée pour sélectionner le mode de minuterie, le mode change de TUNER (reception par minutería d'une émission), à TUNER/REC (enregistrement par minutería d'une émission), à CD (lecture par minutería d'une bande), dans cet ordre.

Quando la tecla es presionada para seleccionar el modo de minuterie, el modo cambia de TUNER (recepción por minutería de una emisión), a TUNER/REC (registro por minutería de una emisión), a CD (reproducción de CD por minutería de una banda), en este orden.

**Setting the timer.**  
(Example: To set the timer to PM 1:15.)



1. Ajuste el tiempo de inicio (Ejemplo: Para ajustar el temporizador a las 1:15 PM)
2. Press to set the timer stop time. Presione para fijar la hora de desconexión del temporizador.
3. Select the TIMER mode. El modo de temporizador seleccionado aparece en la indicación.
4. Press the button. When the button is pressed to select the timer mode, the mode changes from TUNER (timer reception or a broadcast), to TUNER/REC (timer recording of a broadcast), to CD (timer play of a CD), to TAPE (timer playback of a tape), in this order.

When the button is pressed to select the timer mode, the mode changes from TUNER (timer reception or a broadcast), to TUNER/REC (timer recording of a broadcast), to CD (timer play of a CD), to TAPE (timer playback of a tape), in this order.

Si presiona el botón para seleccionar el modo de temporizador, el modo cambia de TUNER (recepción por minutería o radiodifusión por TUNER/REC (grabación de una radiodifusión por temporizador), a CD (reproducción de CD por minutería de una banda), en este orden.

**Adjust the volume.**  
(Example: To set the volume to VOL 25.)

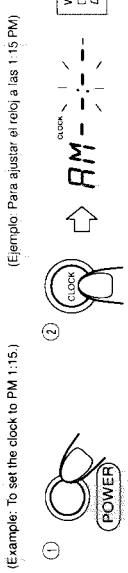


1. Ajuste el volumen. (Ejemplo: Para ajustar el nivel de volumen a VOL 25.)
2. Press to set the volume level. Presione para fijar el nivel de volumen.
3. Confirm the volume level. Confirme el nivel de volumen.
4. Press the button. When the button is pressed to select the volume level, the volume level is shown in the display.

When the button is pressed to select the volume level, the volume level is shown in the display.

Quando la tecla es presionada para seleccionar el nivel de volumen, el nivel de volumen aparece en la indicación.

**Regler l'heure de mise à l'arrêt.**  
(Exemple: Pour régler la minuterie sur PM 1:15.)



1. Régler l'heure de mise à l'arrêt. (Exemple: Pour régler la minuterie sur PM 1:15.)
2. Press to set the timer stop time. Presione para fijar la hora de desconexión del temporizador.
3. Appuyer pour régler l'heure de mise à l'arrêt.
4. Régler l'heure de mise en marche. (Exemple: Pour régler la minuterie sur PM 12:15.)

Quand la touche est pressée pour sélectionner le mode de minuterie, le mode change de TUNER (reception par minutería d'une émission), à TUNER/REC (enregistrement par minutería d'une émission), à CD (lecture par minutería d'une bande), dans cet ordre.

Quando la tecla es presionada para seleccionar el modo de minuterie, el modo cambia de TUNER (recepción por minutería de una emisión), a TUNER/REC (registro por minutería de una emisión), a CD (reproducción de CD por minutería de una banda), en este orden.

**OPERACIONES DEL TEMPORIZADOR**

**Setting the timer**

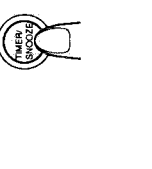
1. Set the timer to ON.
2. Press the STOP button.
3. Press the CLOCK button.
4. Press the STOP button.



**FUNCTIONNEMENT DE LA MINUTERIE**

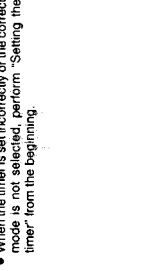
**Régla de la minuterie**

1. Appuyer sur la touche POWER sur marche.
2. Appuyer sur la touche TIMERS/NOOZE.
3. Appuyer sur la touche CLOCK.
4. Appuyer sur la touche STOP.



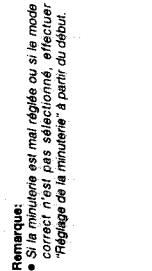
**Setting the volume**

1. Set the volume level.
2. Press the STOP button.
3. Press the VOL button.
4. Press the STOP button.



**Confirm the volume level**

1. Confirm the volume level.
2. Press the button.
3. Confirm the volume level.





MAINTENANCE

MANUTENIMIENTO

ENTRETIEN

**Cleaning is important!**

When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty...  
 ● The sound quality deteriorates.  
 ● The output sound level drops.  
 ● Previously recorded tape is not completely erased.  
 ● Recording is not performed satisfactorily.  
 Therefore, you should clean the heads, etc. after every 10 hours of use for optimal recording conditions.

**La limpieza es importante!**

Cuando la cinta está girando, el polvo y la suciedad se acumulan naturalmente en las cabezas, cabrestante y rodillo de presión. Cuando están muy sucios...  
 ● La calidad de sonido se deteriora.  
 ● El nivel de salida de sonido se reduce completamente.  
 ● La grabación no se realiza satisfactoriamente.  
 Por lo tanto, usted debe limpiar las cabezas, etc. después de cada 10 horas de uso para obtener condiciones de grabación óptimas.

**Le nettoyage est important!**

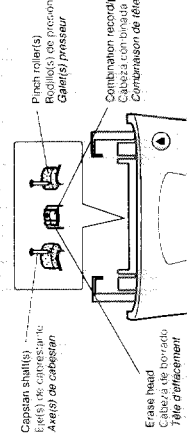
Cuando la cinta está girando, el polvo y la suciedad se acumulan naturalmente en las cabezas, cabrestante y el galete. Cuando los sonidos son demasiado sucios...  
 ● La calidad sonora se deteriora.  
 ● El nivel de salida de sonido se reduce completamente.  
 ● El registro no se realiza satisfactoriamente.  
 Por lo tanto, usted debe limpiar las cabezas, etc. después de cada 10 horas de uso para obtener condiciones de registro óptimas.

**Cleaning the heads, capstan and pinch roller**

Open the cassette holder.  
 Clean the heads, pinch roller and capstan.  
 For effective cleaning, use a cleaning kit available from an audio store.  
 After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.

**Limpeza de las cabezas, cabrestante y rodillo de presión**

Abra el portacassetes.  
 Limpie las cabezas, rodillo de presión y cabrestante.  
 Para una limpieza efectiva, utilice un conjunto de limpieza disponible en cualquier tienda de audio.  
 Después de la limpieza, asegúrese de que el líquido para la limpieza se haya secado completamente antes de colocar un cassette.



**Cautions:**

1. Magnets, and metallic objects away from the head.  
 If the head becomes magnetized, noise will increase and the sound will deteriorate. Demagnetize the head every 20-30 hours of use with a head eraser (available from an audio store). (When demagnetizing the head, the POWER button should be set to STANDBY.)  
 Do not use anything other than alcohol for cleaning. Use of acetone, benzene, etc. on the pinch roller.

**Precauciones:**

1. Manténgase alejado de las cabezas magnéticas, de los objetos metálicos y de la cabeza magnetizada. Si la cabeza se magnetiza, el ruido aumentará y el sonido se deteriorará. Demagnetice la cabeza cada 20-30 horas de uso con un desmagnetizador de cabezas (disponible en cualquier tienda de audio). (Cuando desmagnetice la cabeza, el botón POWER deberá estar colocado en STANDBY.)  
 No use nada más que alcohol para limpiar. El uso de acetone, benceno, etc. en el rodillo de presión de goma.

**Précautions:**

1. Gardez les aimants et objets métalliques éloignés de la tête. Si la tête devient magnétisée, du bruit augmentera et la tonalité se détériorera. Démagnétisez la tête toutes les 20 à 30 heures d'utilisation avec un effaceur de tête (en vente dans un magasin d'accessoires audio). (Lors de la démagnétisation de la tête, la touche POWER doit être réglée sur STANDBY.)  
 Ne pas utiliser autre chose que de l'alcool pour nettoyer. L'usage de l'acétone, du benzène, etc., sur le galete presseur de caoutchouc.

**Cleaning the lens**

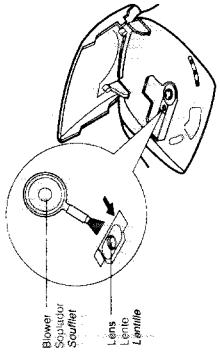
If the lens in the CD pickup is dirty, dropout could degrade sound.  
 Open the CD holder and clean the lens as shown.  
 ● Use a blower (available from a camera store) to blow dust off the lens.  
 ● If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.

**Limpeza de la lente**

Si la lente del lector de CD está sucia o manchada, etc., puede degradar el sonido.  
 Abra el compartimento del CD y limpie la lente como se muestra.  
 ● Utilice un sopador (disponible en una tienda de cámaras), para quitar el polvo de la lente o borrar huellas dactilares, etc. en la lente, limpie suavemente con un hisopo de algodón.

**Nettoyage de la lentille**

Si la lentille du capteur CD est sale, des pertes de niveau, etc., peuvent dégrader le son.  
 Ouvrir le porte-disque et nettoyer la lentille comme indiqué.  
 ● Utiliser un soufflet (en vente dans les magasins de photo) pour éliminer le poussière de la lentille.  
 ● Dans le cas d'empreintes digitales, etc., sur la lentille, essuyer doucement avec un coton-tige.



**Funcionamiento de la minuterie de somnolencia (en utilisant la télécommande)**

1. Utilizar, cuando desee dormir, una cinta, una emisora o un disco.  
 ● Reglar la fuente de sonido (para emisiones) o la cinta (para cassette).  
 ● Apoyar en la tecla SLEEP para reglar la duración de somnolencia.



- La minuterie de somnolencia comenzará el funcionamiento de la fuente de sonido después de la duración especificada.  
 ● Control de la duración de somnolencia: Cuando la tecla SLEEP es presionada, la duración de somnolencia restante es mostrada. Si ella es presionada de nuevo, una nueva duración de somnolencia puede ser reglada.  
 ● Para cancelar el funcionamiento de la minuterie de somnolencia, presione la tecla POWER para cancelar la alimentación o apoyarse en la tecla SLEEP hasta que el indicador de minutos de somnolencia desaparece.

**Operación del temporizador de desconexión (utilizando la unidad de control remoto)**

1. Utilizar cuando desee dormir, mientras escucha una cinta, radiodifusión o CD.  
 ● Ajuste la fuente deseada y sintonice (radiodifusión) o reproduzca (CD o cinta).  
 ● Presione el botón SLEEP para ajustar el tiempo que va a dormir.



- Los ajustes de tiempo para dormir pueden ser 30, 60, 90 o 120 minutos. Cambio instantáneo en el botón SLEEP. La fuente es indicada después de que hayan transcurrido 5 segundos.  
 ● Después de transcurrido el tiempo especificado se activa el temporizador de desconexión y la alimentación es desconectada.  
 ● Verificación del tiempo para dormir: Cuando presiona el botón SLEEP, aparece la indicación del tiempo restante. Si lo presiona otra vez, es posible establecer un nuevo periodo para dormir.  
 ● Cancelación del temporizador de desconexión: Presione el botón POWER para desconectar la alimentación o presione el botón SLEEP hasta que el indicador de tiempo para dormir desaparece.

**Sleep timer operations (using the remote control unit)**

1. Set to the required source and tune (broadcast) or play back (CD or tape).  
 ● Press the SLEEP button to set the sleep time.



- The sleep timer operation will start and the power will be switched off after the specified time.  
 ● Checking the sleep time: When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.  
 ● To cancel the sleep timer operation: Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

**B. Para dormir mientras escucha una cinta, radiodifusión, o CD y para efectuar la reproducción por minuterie el mañana siguiente**

1. Ajuste el temporizador (Reglárese a "Ajuste de somnolencia" en la página 25).
2. Ajuste la fuente deseada (radio/difusión, cinta o CD).
3. Presione el botón SLEEP para ajustar la hora de desconexión del temporizador.



- Para las operaciones del temporizador de desconexión y para reproducción por temporizador es posible seleccionar cualquier fuente de sonido.  
 ● Después de haber seleccionado la operación por temporizador de desconexión y recepción de radiodifusión para la reproducción por temporizador.  
 ● Reproducción de cinta para la operación del temporizador de desconexión y reproducción de CD para la reproducción por temporizador.

Sin embargo, cuando se selecciona la recepción de radiodifusión tanto para el temporizador de desconexión como para la reproducción por temporizador, la estación que usted escucha durante la noche será sintonizada a la mañana siguiente.

**B. To fall asleep while listening to a tape, broadcast or CD and to perform timer playback the following morning**

1. Set the timer. (Refer to "Setting the timer" on page 25.)
2. Set to the required source (broadcast, tape or CD).
3. Press the SLEEP button to set the sleep time.



- Any source can be selected for sleep timer operation and timer playback. For example, CD play for sleep timer operation and broadcast reception for timer playback.  
 ● After having selected the operation and CD play for timer playback.  
 ● However, when broadcast reception is selected for sleep timer operation and timer playback, the station that at night will be tuned to the following morning.

RC-NX1C/J CD PORTABLE SYSTEM

TROUBLESHOOTING



DETECCION DE PROBLEMAS

EN CAS DE PANNES

Lo que parece ser un problema no siempre es grave. Primero asegúrese.....

- Cuando ocurre una falla de funcionamiento, desconecte el cordón de CA del tomacorriente y extraiga todas las pilas. Luego reconecte las pilas después de transcurridos unos pocos minutos; reconecte el cordón de CA y conecte ON la alimentación.

- Power cannot be turned on.
• Is the power cord of the AC adapter unplugged?
• Are headphones connected?

- A certain portion of the CD does not play.
• Is the CD scratched?
• Playback sound is at a very low level.
• Is the head dirty?
• The EJECT button does not function.
• Have the safety tabs of the cassette been broken off?

- Reception is noisy.
• Try adjusting the antenna.
• Timer operation does not start.
• Is the current time set correctly?
• Is the timer mode indicator (T) displayed?

- Remote control is impossible.
• Are the batteries in the remote control exhausted?
• Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

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- Remote control is impossible.
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• Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

Note: Before making an important recording, be sure to check the recording first to check that the deck, etc. is working correctly.

Co qui semble être une panne n'est pas toujours sérieux. S'en assurer d'abord.....

- Quand un fonctionnement anormal se produit, débranchez le cordon d'alimentation secteur de la prise de courant et retirez toutes les piles. Puis remettre les piles au bout de quelques minutes; rebranchez le cordon d'alimentation secteur et mettez l'alimentation sur marche.

- L'alimentation ne peut pas être mise sur.
• Le cordon d'alimentation de l'adaptateur secteur est-il débranché?
• Les piles sont-elles correctement insérées?
• Un casque est-il branché?

- Le lecteur CD ne lit pas.
• Le disque est-il sale?
• Le disque est-il cassé?
• Le disque est-il rayé?
• Le son de lecture est à un niveau très bas.
• La tête est-elle sale?
• La touche EJECT ne fonctionne pas.
• Les languettes de sécurité de la cassette sont-elles brisées?

- La réception est bruyante.
• Essayez d'ajuster l'antenne.
• Le fonctionnement de la minuterie ne marche pas.
• L'heure actuelle est-elle réglée correctement?
• Le mode de minuterie (T) est-il affiché?

- Le télécommande est impossible.
• Les piles du télécommande sont-elles épuisées?
• La section du détecteur de télécommande est-elle exposée à une forte lumière (directement au soleil, etc.)?

- Le télécommande est impossible.
• Les piles du télécommande sont-elles épuisées?
• La section du détecteur de télécommande est-elle exposée à une forte lumière (directement au soleil, etc.)?

- Le télécommande est impossible.
• Les piles du télécommande sont-elles épuisées?
• La section du détecteur de télécommande est-elle exposée à une forte lumière (directement au soleil, etc.)?

Remarque: Avant de faire un enregistrement important, bien faire un enregistrement d'essai d'abord pour vérifier que la platine, etc., fonctionne correctement.

SPECIFICATIONS

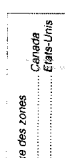
CARACTERISTICAS TECNICAS

CARACTERISTICAS TECNICAS

Table with 2 columns: English and Spanish. Rows include: CD player section, Signal detection, System, Frequency response, Signal-to-noise ratio, Wav & flutter, Radio section, Frequency range, Antennas.

Table with 2 columns: English and Spanish. Rows include: Tape deck section, Track system, Motor, Heads, Frequency response, Fast wind time, General, Speakers, Power output, Input terminals, Output terminal, Power requirements, Power consumption, Dimensions, Weight, Accessories provided, Design and specifications.

Table with 2 columns: English and Spanish. Rows include: Section platine à cassette, Système de piste, Moteur, Têtes, Réponse en fréquence, Caractéristiques de l'adaptateur secteur, Durée d'enroulement, Bobine de sortie, Bornes d'entrée, Borne de sortie, Alimentation, Consommation, Dimensions, Poids, Accessoires fournis, Présentation et caractéristiques modifiables sans préavis.



# 1 Location of main parts

## ◆ Internal view of the front cabinet

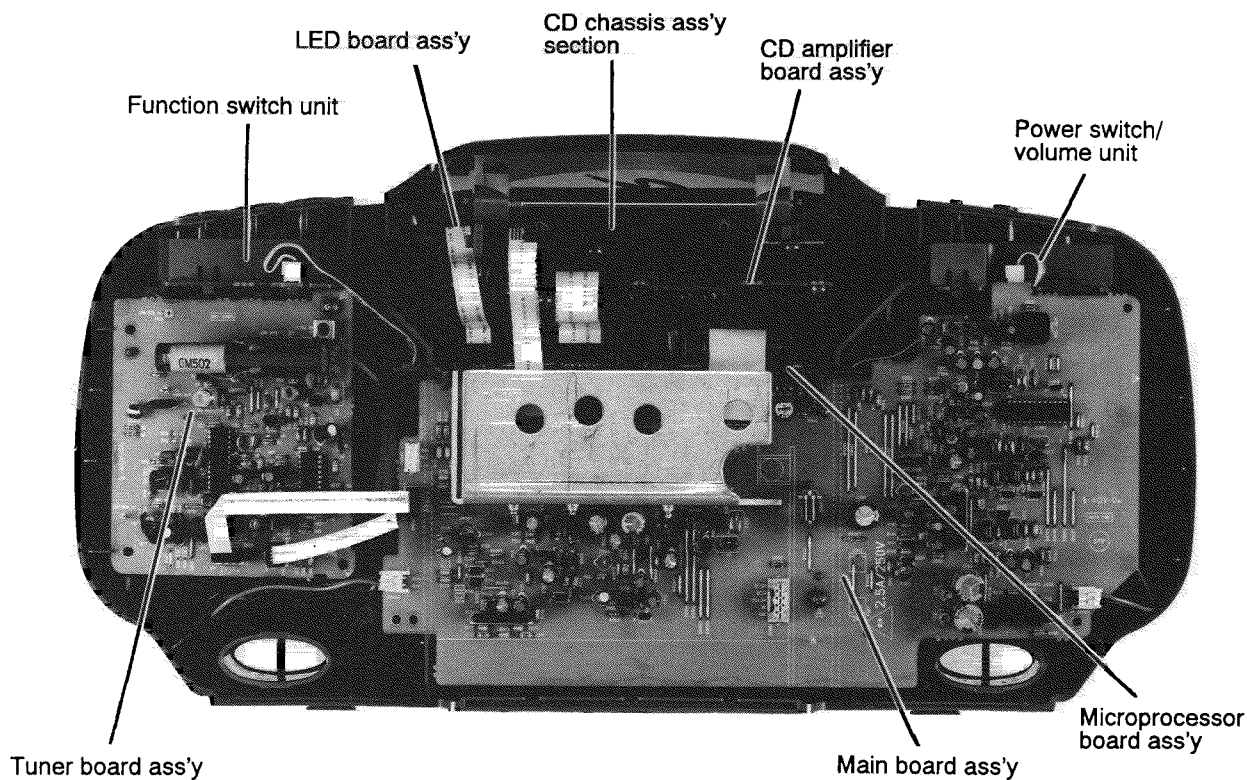


Fig. 1-1

## ◆ Internal view of the rear cabinet

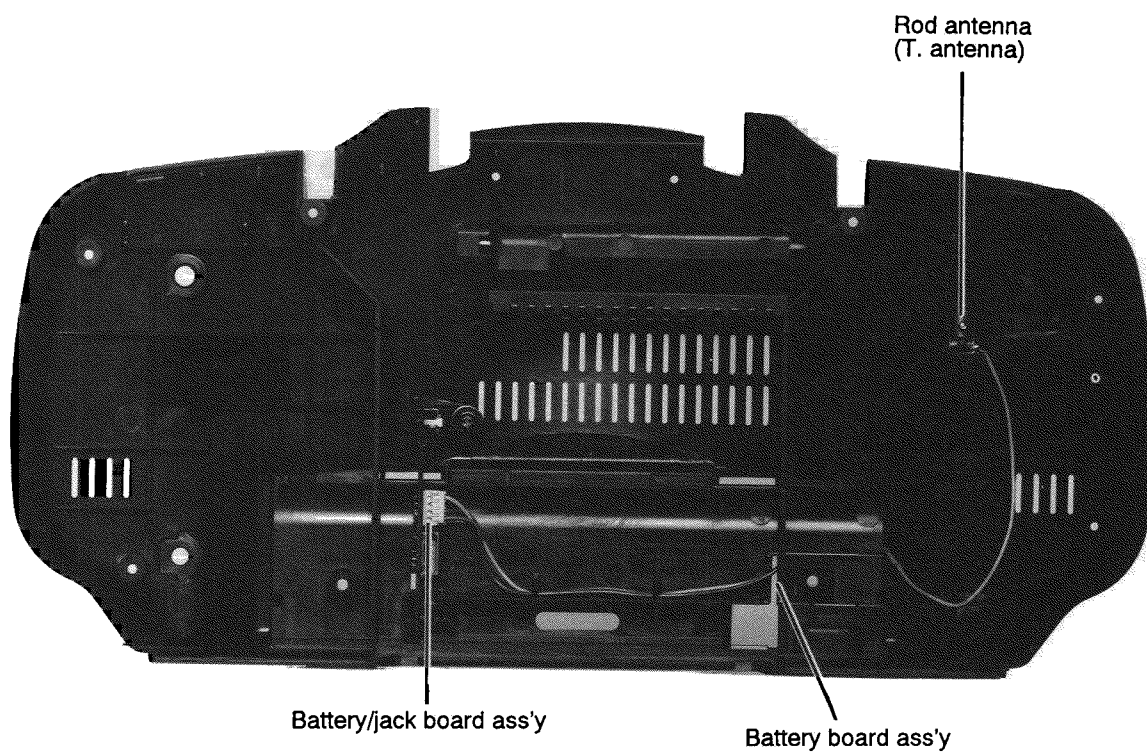


Fig. 1-2

◆ CD unit section

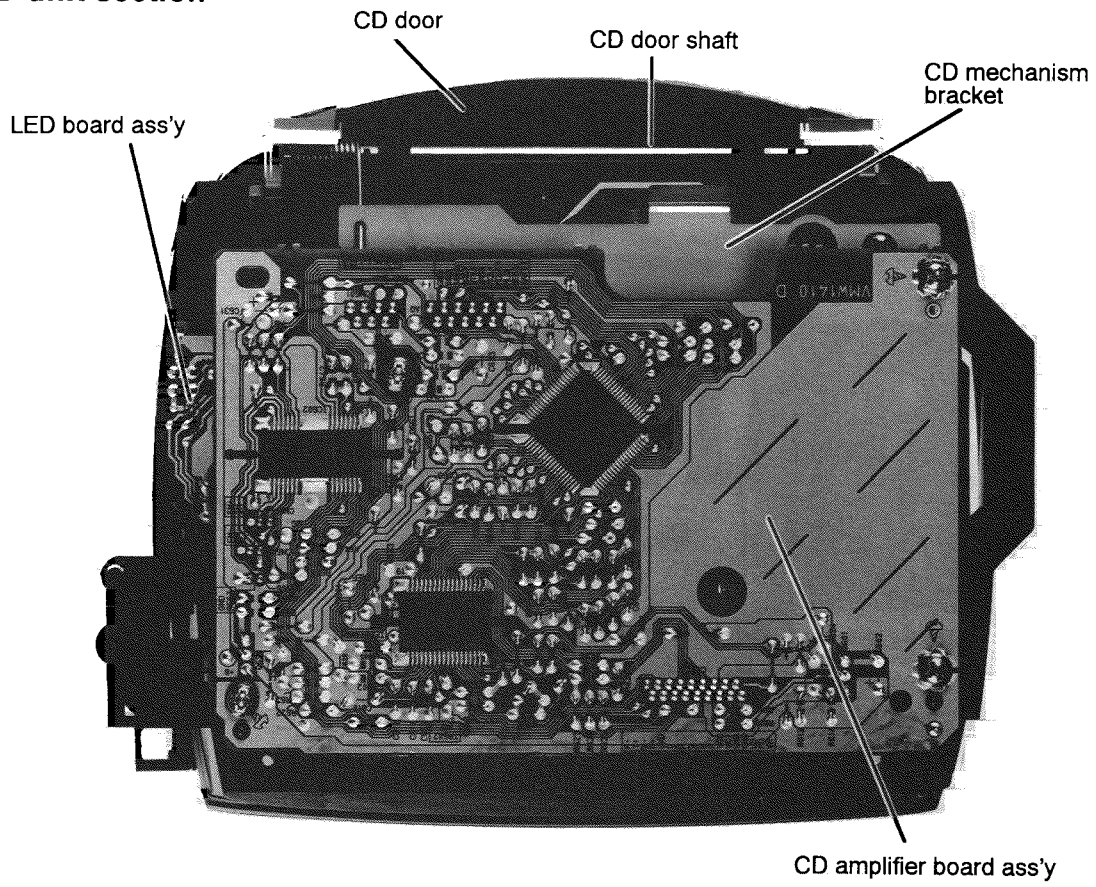


Fig. 1-3

◆ Cassette mechanism section

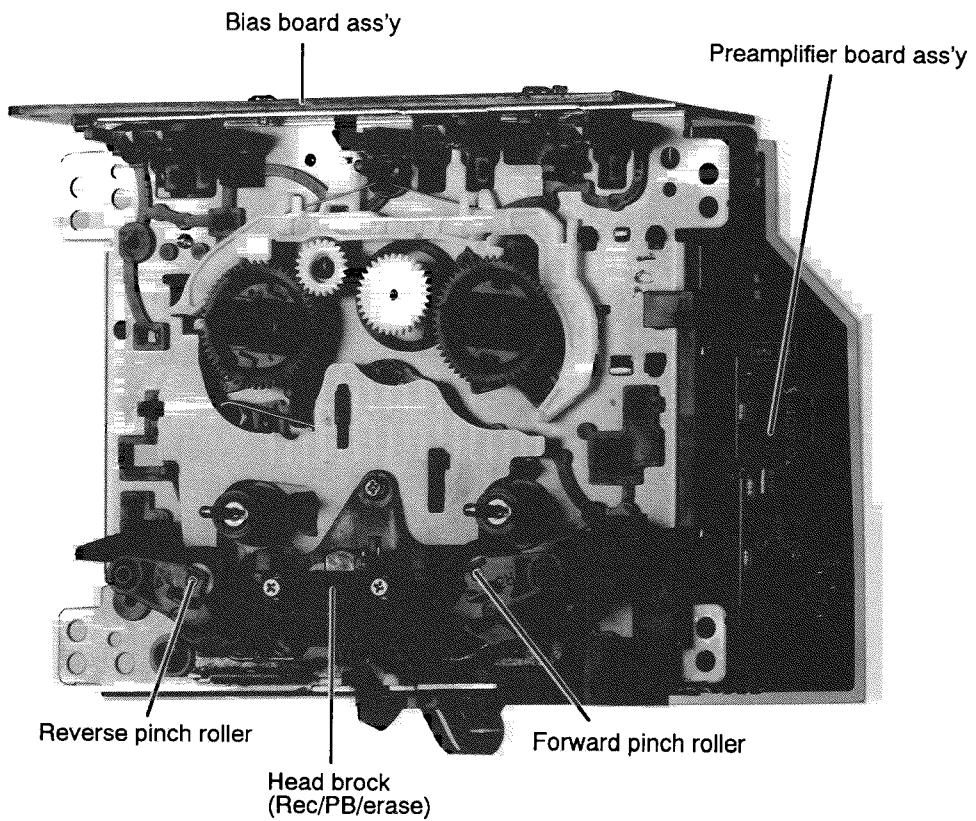


Fig. 1-4

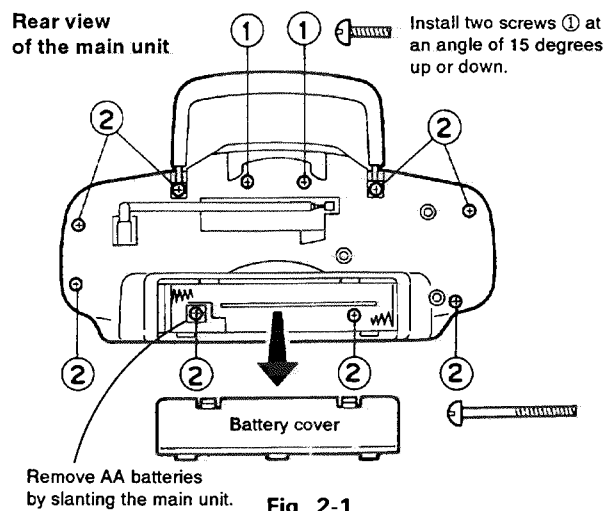
## 2 Removal of main parts

### ■ Cabinet

#### ◆ Remove the battery cover. (see Figure 2-1)

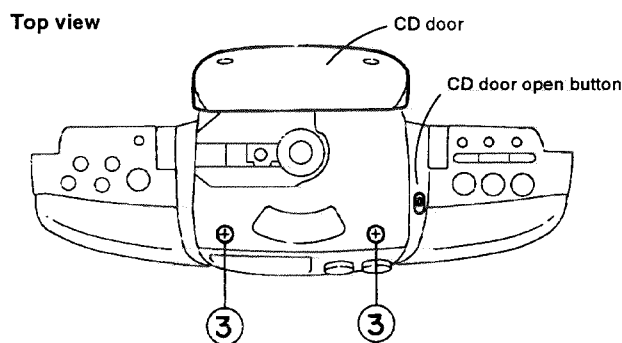
#### ◆ How to remove the rear cabinet (see Figure 2-1)

- 1) Remove the two screws ① fixing the CD section.
- 2) Remove the eight screws ② fixing the rear cabinet and handle.
- 3) Slightly open the rear cover, then remove the antenna wire from TP1 on the tuner PC board. (see Figure 2-3)
- ★ Caution: In order not to damage the tuner PC board, before removing the rear cabinet, open it slightly, then remove the antenna wire from TP1.
- 4) The handle can now be removed.



#### ◆ How to remove the CD unit (see Figures 2-1 to 2-3)

- 1) Remove the rear cabinet.
- 2) Open the CD door, then remove two the screws ③ before closing the door.
- 3) Disconnect the card wires from CN601 and CN602 on the CD amp PC board at the rear. Pull out the CD unit (as the door button sticks, push it in), then disconnect the card wire from CN705 on the microprocessor PC board.



#### ◆ How to remove the tuner PC board assembly

(see Figure 2-3)

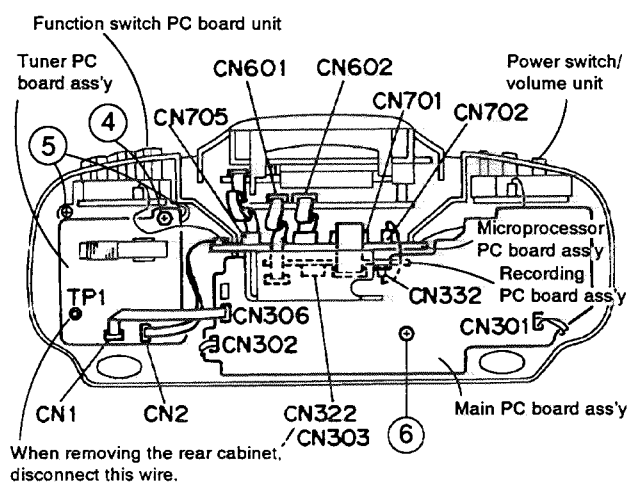
- 1) Remove the rear cabinet.
- 2) Loosen the screw ④ securing the tuner PC board, then remove the PC board assembly. Disconnect the wires connected to CN1 and CN2 if necessary.

#### ◆ How to remove the function switch PC board unit

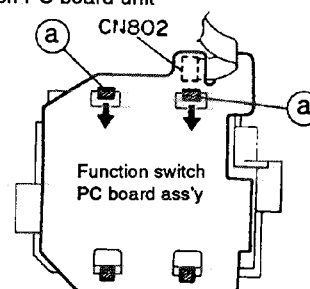
(see Figure 2-4)

- 1) Remove the tuner PC board assembly.
- 2) Remove the two screws ⑤ securing the function switch PC board holder.
- 3) Remove the function switch unit from the front cabinet, then disengage the two tabs @ on the PC board.
- 4) Disconnect the wire from CN802 if necessary.

#### Internal view of the front cabinet



#### Function switch PC board unit



◆ **How to remove the main PC board assembly**

(see Figure 2-3)

- 1) Remove the rear cabinet.
- 2) Disconnect the speaker wires from CN301 and CN302 on the main PC board assembly.
- 3) Disconnect the card wire from CN701 on the microprocessor PC board.
- 4) Disconnect the card wire to the tuner PC board from CN306.
- 5) Disconnect the card wire between the main PC board and CD PC board from CN601.
- 6) Remove the screw ⑥ securing the main PC board, then pull the main PC board assembly toward the bottom, and disconnect CN303 and CN322.

◆ **How to remove the power switch/volume unit**

(see Figures 2-6 and 2-7)

- 1) Remove the main PC board assembly.
- 2) Pull out the power switch/volume unit from the cabinet.
- 3) Disconnect the wire from CN801 if necessary.
- 4) Remove screw the ⑰ and disengage the two tabs ① securing the PC board.

◆ **How to remove the microprocessor PC board assembly** (see Figure 2-5)

- 1) Remove the CD unit and the main PC board assembly.
- 2) Disconnect the card wire (ribbon cable) from CN702 on the microprocessor PC board assembly, then pull the board toward the cassette mechanism.
- 3) The microprocessor PC board can now be removed.

◆ **How to remove the cassette mechanism assembly unit** (see Figure 2-6)

- 1) Remove the main PC board assembly.
- 2) Disconnect the card wire (ribbon cable) from CN702 on the microprocessor PC board.
- 3) Remove the four screws ⑦ securing the cassette mechanism.

◆ **How to remove the left speaker** (see Figure 2-6)

- 1) Remove the main PC board assembly.
- 2) Remove the four screws ⑨ securing the speaker.

◆ **How to remove the right speaker** (see Figure 2-6)

- 1) Remove the tuner PC board assembly.
- 2) Remove the four screws ⑩ securing the speaker.

Card wire (ribbon cable) connection diagram

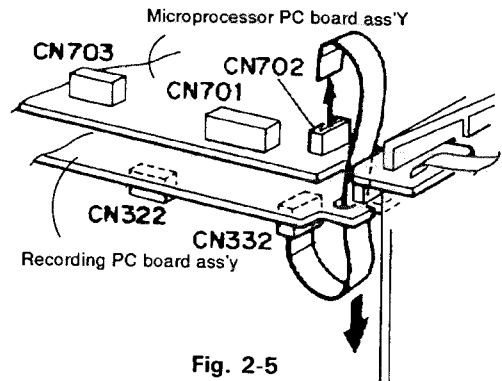


Fig. 2-5

Internal view of the front cabinet

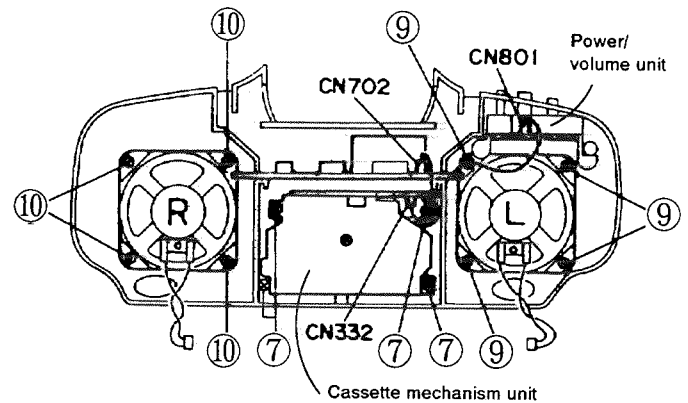


Fig. 2-6

Power switch/volume PC board ass'y

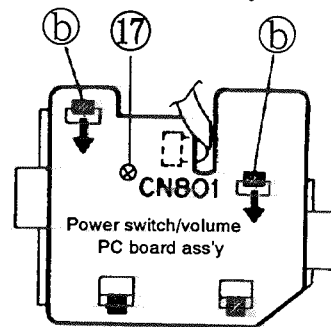


Fig. 2-7

Cassette mechanism unit

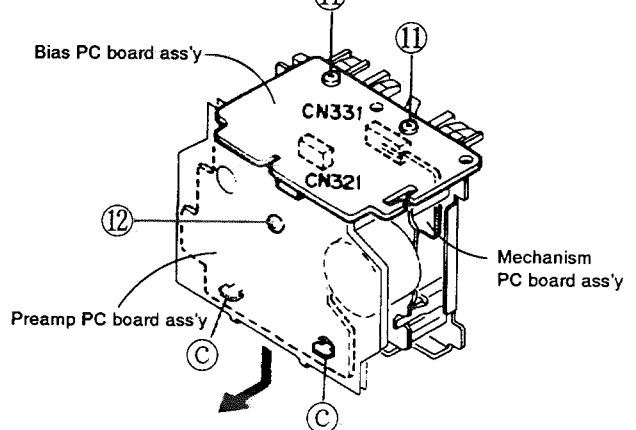


Fig. 2-8



### ◆ How to disassemble the cassette mechanism unit

(see Figure 2-8)

- 1) Remove the two screws ⑪ securing the bias PC board assembly from the top.
- 2) Lift the bias PC board assembly straight up, then disconnect the connectors CN321 to the playback PC board and CN331 to the mechanism PC board.
- 3) Remove the screw ⑫ securing the preamp PC board, then slide the board downward to disengage the tabs ㉞.

### ◆ How to disassemble the CD unit

(see Figures 2-9 to 2-13)

- 1) Open the CD door, then pull the door shaft toward the rear to disengage the door.
- 2) Remove the four screws ⑬ securing the CD amp PC board.
- 3) Lift the PC board and disconnect pickup connector CN603. Next, disconnect mechanism connectors-- CN604, CN605 and CN606. (When reconnecting them, match them with the connector colors printed on the PC board.)
- 4) Remove the two screws ⑭ securing the LED PC board.
- 5) Remove the three screws ⑮ securing the mechanism chassis.
- 6) Remove the CD mechanism assembly from the chassis. Remove the damper cushion by pushing it outward.

### ※ How to reassemble the CD door unit

#### ◆ CD door

- 1) Reattach the shaft and door spring to the CD door as shown in Fig. 2-9.
- 2) Reinstall the chassis. (see Figure 2-10)
- 3) Hook the door spring onto the mechanism chassis (metal)(as indicated by a dotted line in Figure 2-10).

Inside view of the CD door

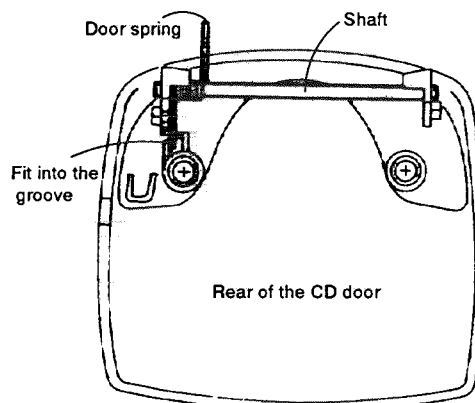


Fig. 2-9

CD unit (reinstallation of door)

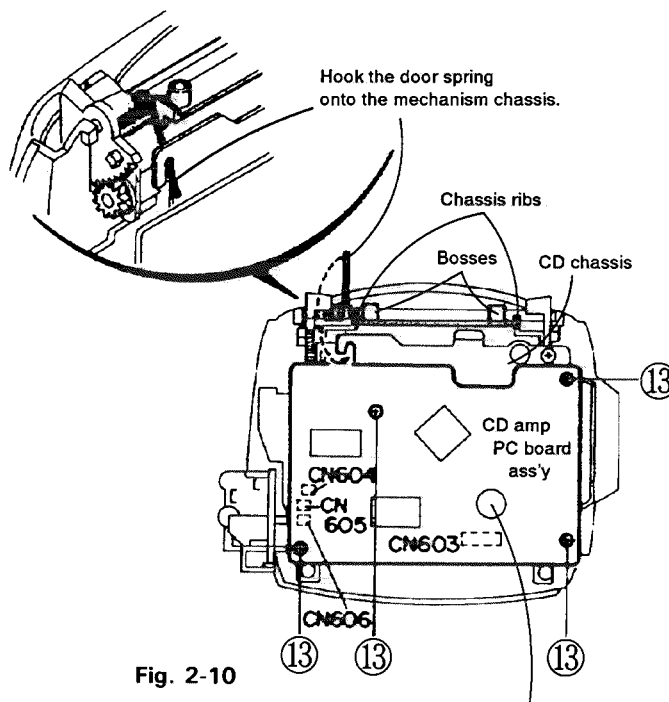


Fig. 2-10

Note : The shorting round land visible through the hole in the CD PC board assembly is used for protecting the pickup. When removing the pickup, short it with solder. After reinstallation is complete, desolder the short. Also desolder the short when the pickup has been replaced with a new pickup assembly.

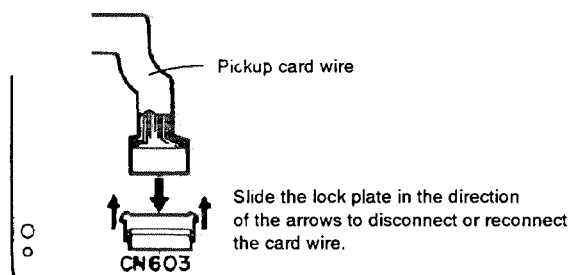


Fig. 2-11

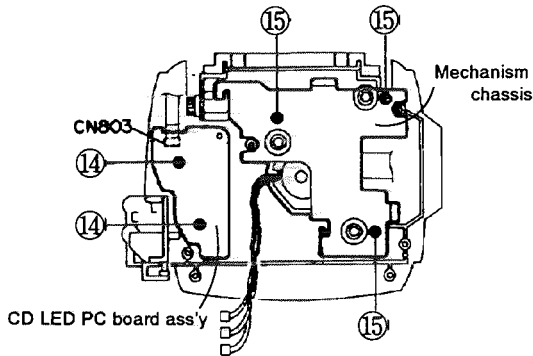


Fig. 2-12

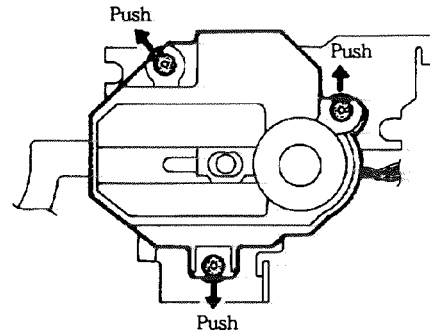


Fig. 2-13

◆ How to remove the cassette door

(see Figures 2-14 to 2-15)

- 1) Open the door, then disengage the door spring from the cassette door (the spring is longer on the door side).
- 2) Remove the door shaft from the front cabinet. At this time, be careful not to misplace the damper gear on the door.

※ How to reinstall the door spring

- 1) Reattach the door to the cabinet.
- 2) Open the door and fit the door spring to the shaft. Next, hook the spring over the door hook. Fit the spring into the slit on the bottom.

Removing the cassette door

(Remove in ascending order starting from ①.)

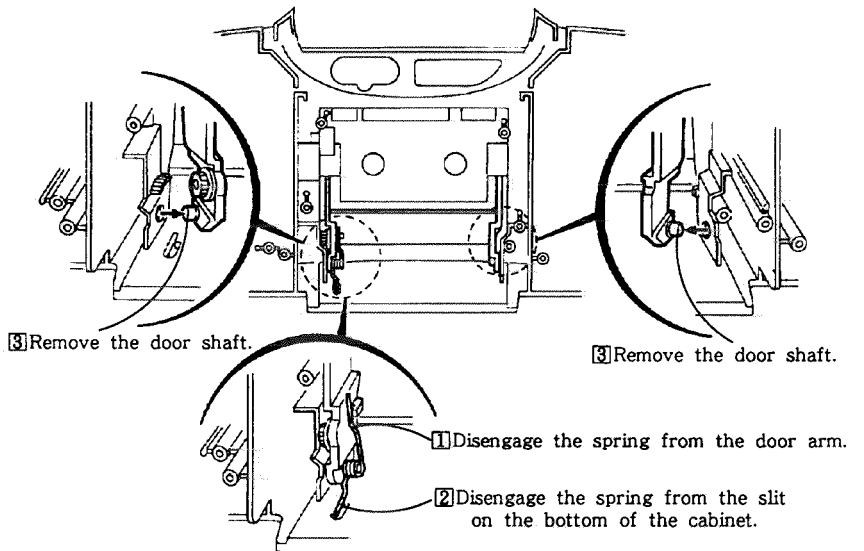


Fig. 2-14

◆ How to remove the battery PC board assembly (see Figure 2-15)

- 1) Remove the screw ⑯ securing the battery PC board assembly.
- 2) While disengaging the PC board stopper tab, pull out the PC board assembly.

Internal view of the rear cabinet

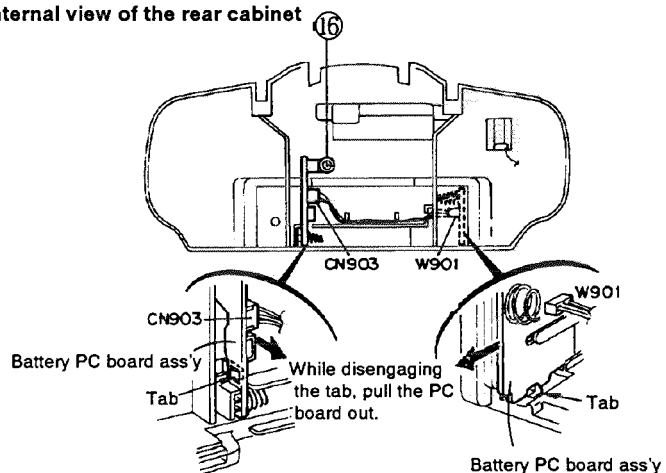


Fig. 2-15

## ■ How to disassemble the cassette mechanism

### ◆ Head mount assembly (See Figure 2-16)

1. Remove the three head mount assembly mounting screws ①.

2. Remove the head wire holder from the chassis.

★ After replacing the head mount, adjust the angle of the head.

- How to engage the gear section of the direction lever with the head mount gear during assembly is illustrated on the right.

### ◆ Pinch roller assembly (See Figure 2-17)

#### Right

1. After opening the pinch roller assembly retaining tab ④ outwards, pull out the pinch roller assembly.

- When assembling, the studs, located under the pinch roller, must be inserted between the direction lever and pinch roller spring.

#### Left

1. Perform the same procedure for the right as shown above.

### ◆ Capstan motor and flywheel assembly

(See Figures 2-18 to 2-20)

1. Remove the three FM bracket assembly mounting screws ②.
2. Open outwards and remove the two FM bracket retaining tabs ③.
3. The capstan belt, flywheel and other related parts can be removed with the FM bracket pulled up slightly. Since, at this time, the reel belt between the flywheel and main pulley will be hooked on the FM bracket, remove the belt using a tool which will not damage the belt. If the flywheel is hooked on the FM bracket, remove them together as they are.

Cassette mechanism top view

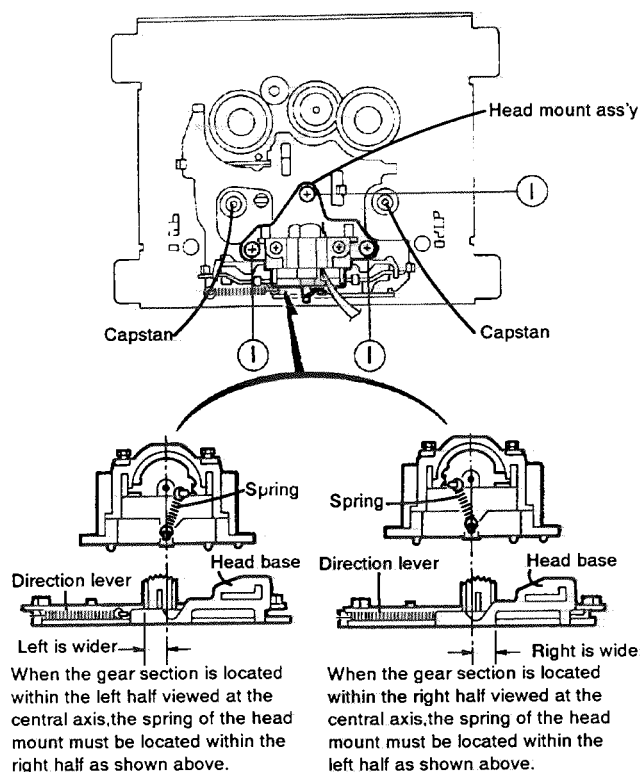


Fig. 2-16

Pinch roller section

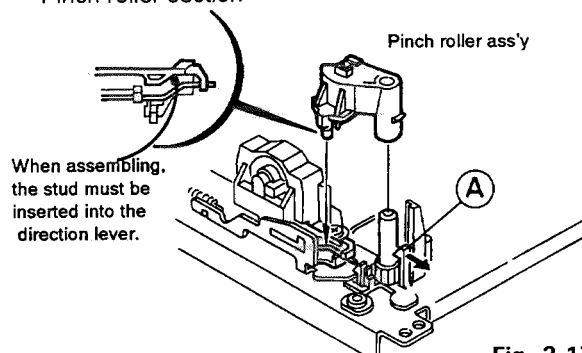


Fig. 2-17

Cassette mechanism top view

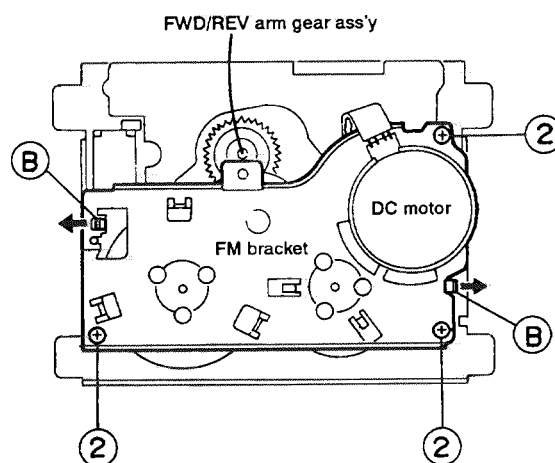


Fig. 2-18

1. Set the flywheel shaft into the thrust guide.
2. Hook the flywheel on the FM bracket with tabs ㉑ and ㉒.
3. After setting the notch ㉓ on the round of the flywheel through the corresponding tab on the FM bracket, turn the flywheel.

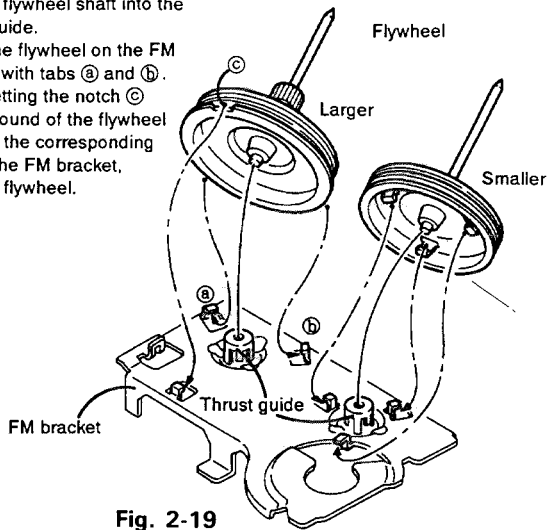


Fig. 2-19

● How to assemble

1. Attach the larger flywheel on the FM bracket as shown.
2. Thread the capstan belt.
3. Attach the smaller flywheel.
4. Thread the reel belt onto the mechanism assembly studs as shown. At this time, be careful that the belt is not twisted.
5. With the FM bracket turned upside down, insert the capstans into the capstan metals.
6. Take off the reel belt from the studs and thread it onto the flywheel. (Check that the belt is not twisted.)

◆ Mechanism PC board assembly (See Figure 2-21)

1. When the solenoid is not removed, separate the soldered parts of the PC board on the solenoid terminal.
2. Remove the PC board mounting screw ③.
3. Remove the four PC board assembly retaining tabs ㉑.
4. In this state, the PC board can be removed. The Hall IC, S6 relay and other related parts can be replaced. The leaf switch can be replaced without removing the PC board.

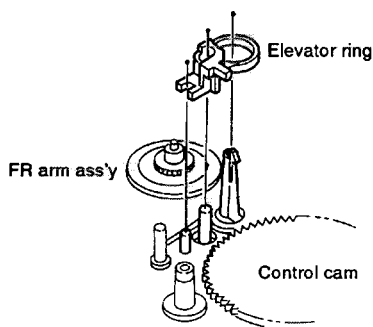
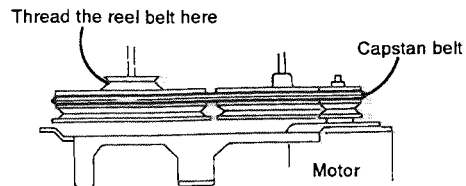
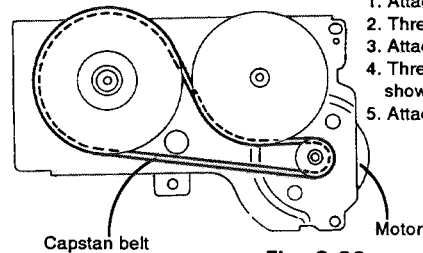


Fig. 2-23

Belt location



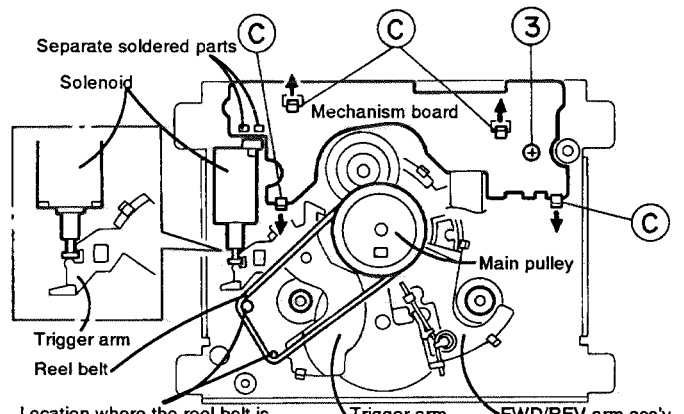
How to thread the belt



How to assemble the FM bracket

1. Attach the larger flywheel.
2. Thread the belt
3. Attach the smaller flywheel.
4. Thread the reel belt as shown below.
5. Attach to the mechanism ass'y.

Fig. 2-20

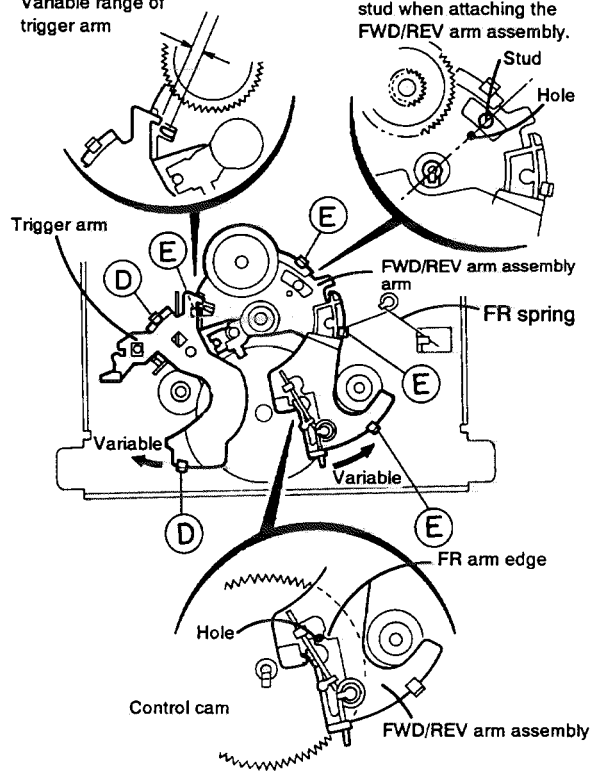


Location where the reel belt is hooked around the studs when attaching the FM bracket.

Fig. 2-21

Variable range of trigger arm

Positions of the hole and stud when attaching the FWD/REV arm assembly.



Positions of the cam hole and arm edge when attaching the FWD/REV arm assembly.

Fig. 2-22

◆ **Control cam** (Figures 2-22 to 2-27)

1. Remove the FM bracket and flywheel.
2. While removing the pawl, pull out the main pulley. Pull out the main pulley.
3. Remove the trigger arm.  
While opening the two tabs ㉔ under the trigger arm, pull out the trigger arm from the shaft.
4. Pull out the elevator ring.
5. Remove the FWD/REV arm assembly.
  - a. Remove the FWD/REV arm spring.
  - b. While opening the four FWD/REV arm retaining tabs ㉕ outwards, pull out the FWD/REV arm.
6. Pull out the control cam.  
While pulling the shaft stopper section of the control cam in the central direction, pull out the control cam.

● **How to assemble**

1. Move the FWD/REV arm in the direction of the arrow.
2. In step 1, pull the head base forward.
3. In step 2, after inserting the cam into the shaft, move the head base and FWD/REV arm slightly until the cam is fully inserted and it clicks to indicate it is locked.
4. Rotate the cam counterclockwise to check if the cam rotates smoothly and the spring clicks according to the forward/backward movement of the head base.
5. After checking the rotation of the cam, rotate the cam until the notch section comes to the right so that the FWD/REV arm assembly can be attached.
6. Attach the FWD/REV arm assembly while observing the positioning of the hole and stud, the cam hole and arm edge as shown in the Figure 2-22.  
After attachment, move the FWD/REV arm in the direction of the arrow to check if it moves back to the original position.
7. Attach the elevator ring.
8. Attach the trigger arm.  
After attachment, move the trigger arm in the direction of the arrow to check if it moves back to the original position.

When attaching the control cam

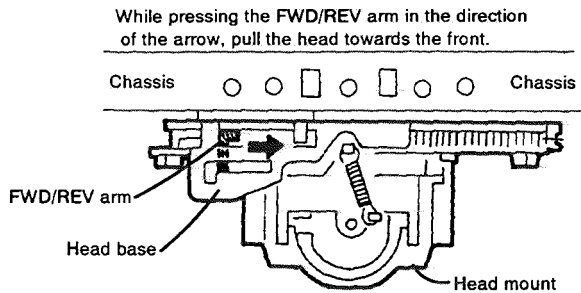


Fig. 2-24

After performing the procedure shown above, the studs under the control cam move as shown.

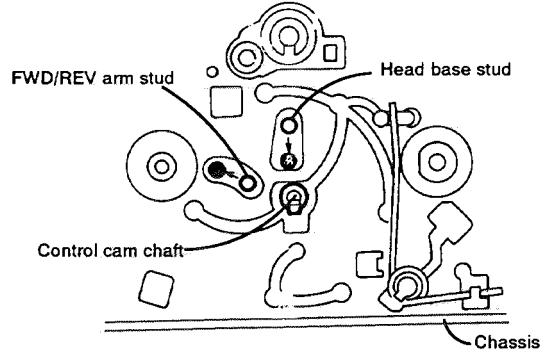
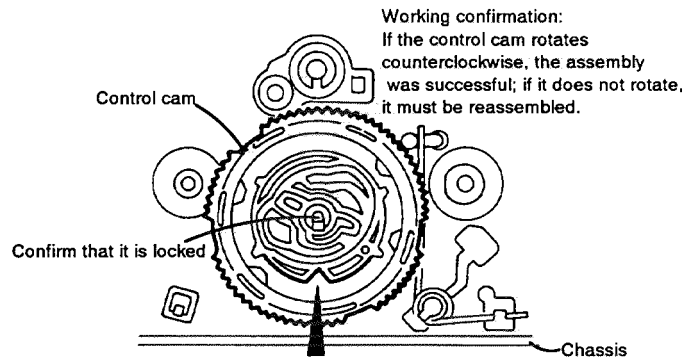
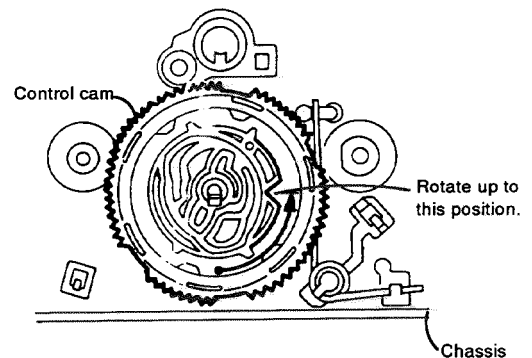


Fig. 2-25



Fit the control cam with its notch located as shown.  
(Engage with the gear of the control cam while moving the FWD/REV arm and head base slightly.)

Fig. 2-26



Attach the FWD/REV arm with the control cam rotated up to the position shown.

Fig. 2-27

## 3 Troubleshooting

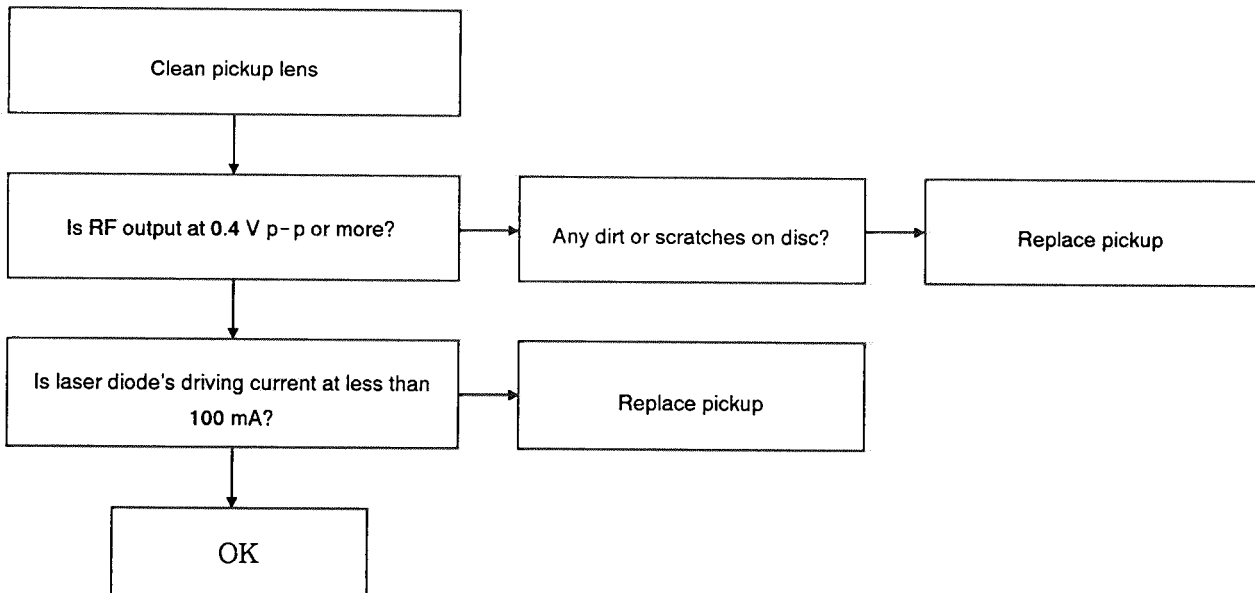
### ■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickup lens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between IC601 ⑦ and ⑩ (GND)) lowers.
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at 10 Ω .)

◆ Following the flow chart shown below, check the service life.



◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R614(10 Ω ), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R614 (V)/10 ( Ω )

When voltage level is at 1.0 V:

$$1.0 \text{ V}/10 \Omega = 0.1 \text{ A} = 100 \text{ mA}$$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

## ◆ HOW TO OPERATE THE CD SELF – DIAGNOSIS FUNCTION

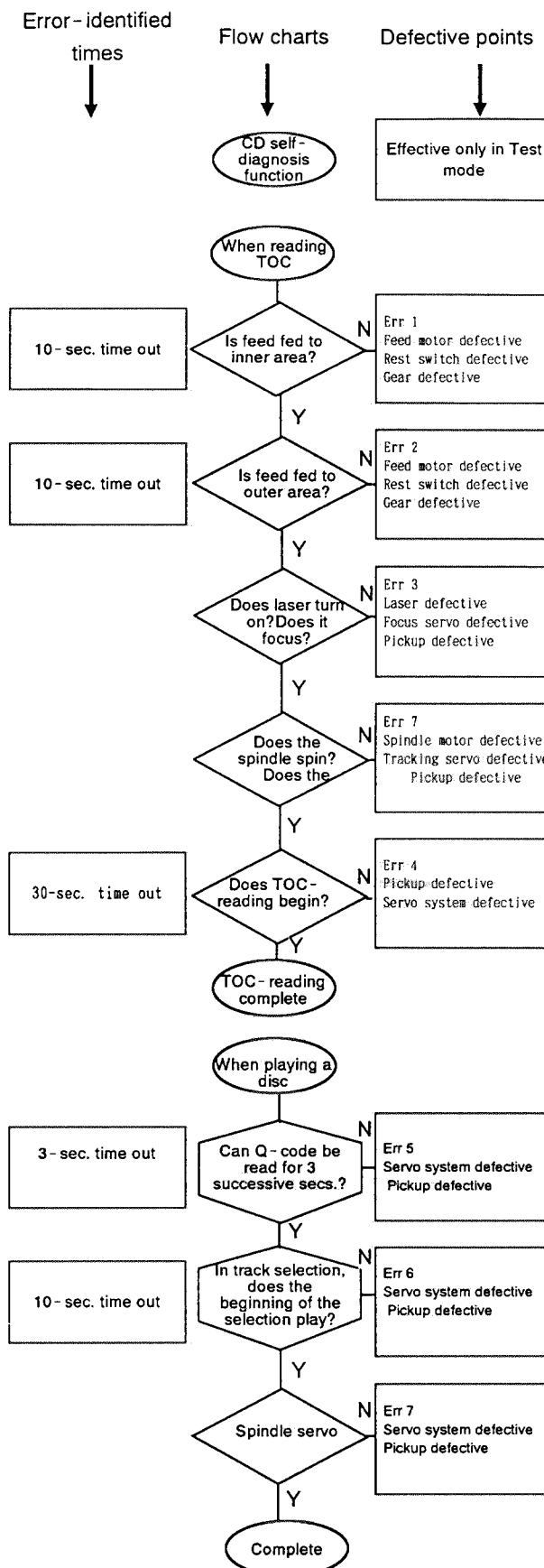
### ◆ The CD Self – diagnosis Function

If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

#### 1. Operation

- 1 Press the three **STOP**, **MULTI-BASS HORN** and **POWER** buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)
- 2 Play a CD. If the operation is defective in any way, an error code should appear on the LCD.
- 3 Identify the point of malfunction in accordance with the error code displayed.

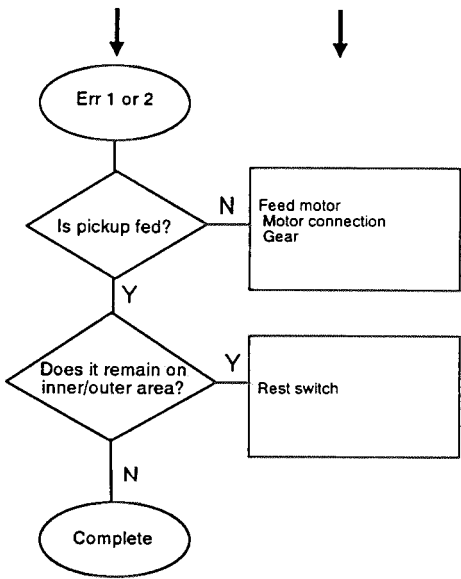
#### 2. Error codes & defective points



Error-identified times  
↓

Flow charts

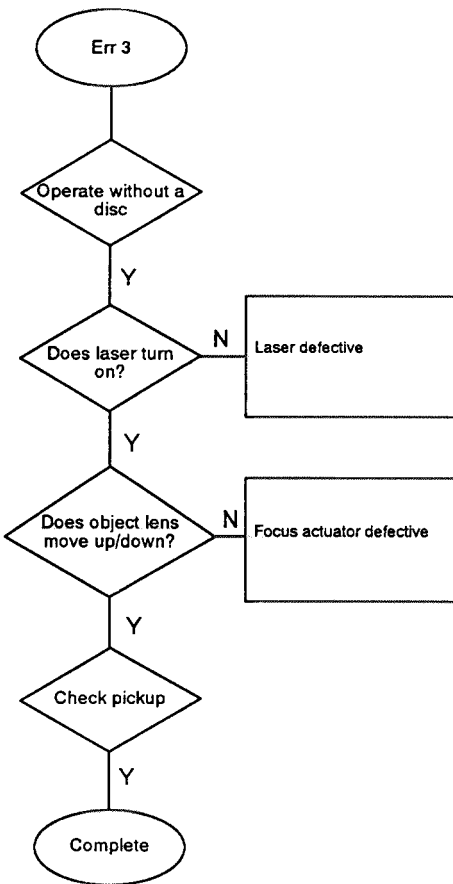
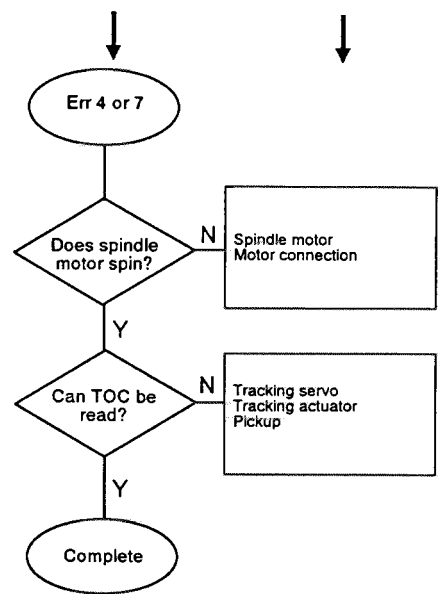
Defective points



Error-identified times  
↓

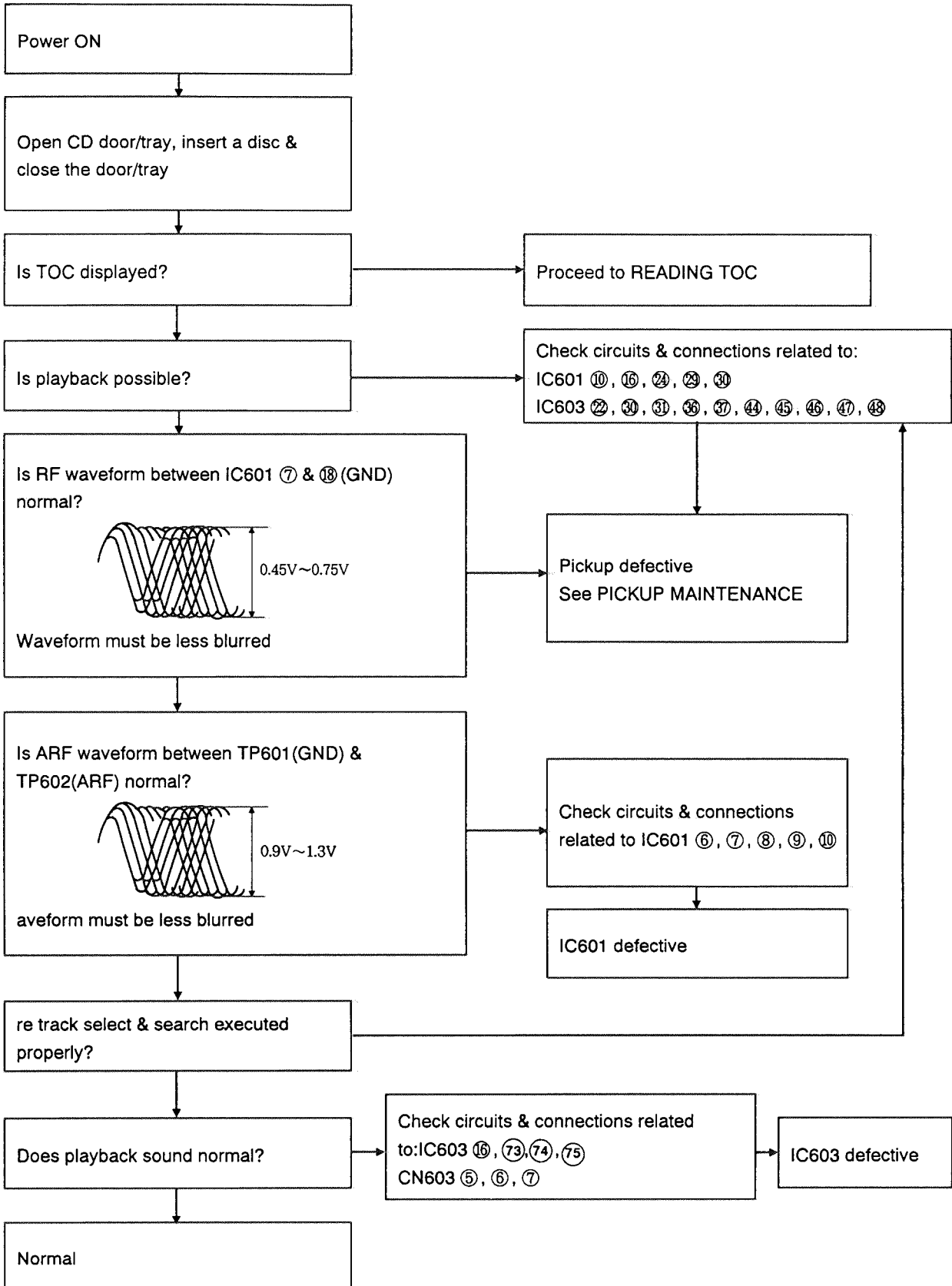
Flow charts

Defective points

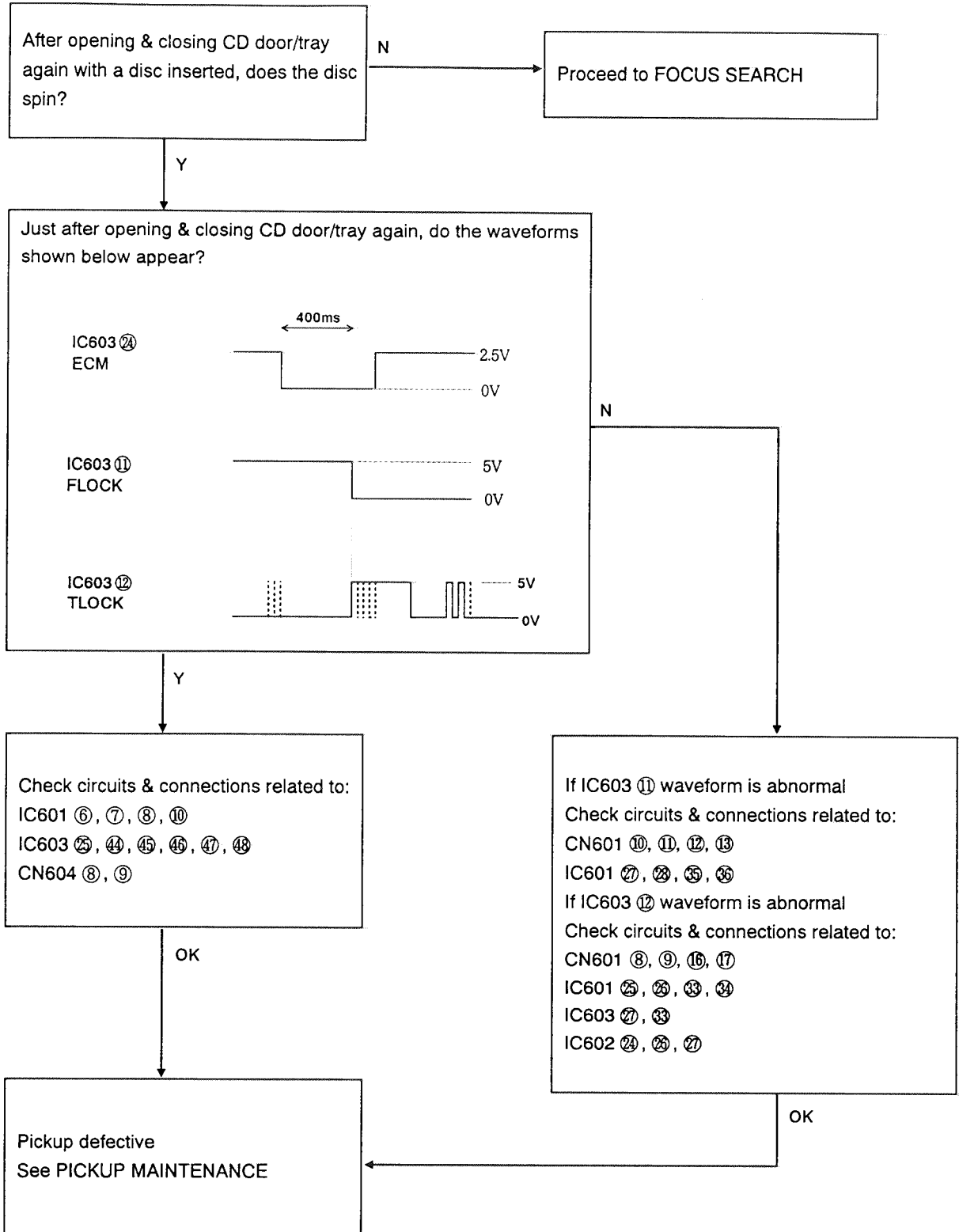




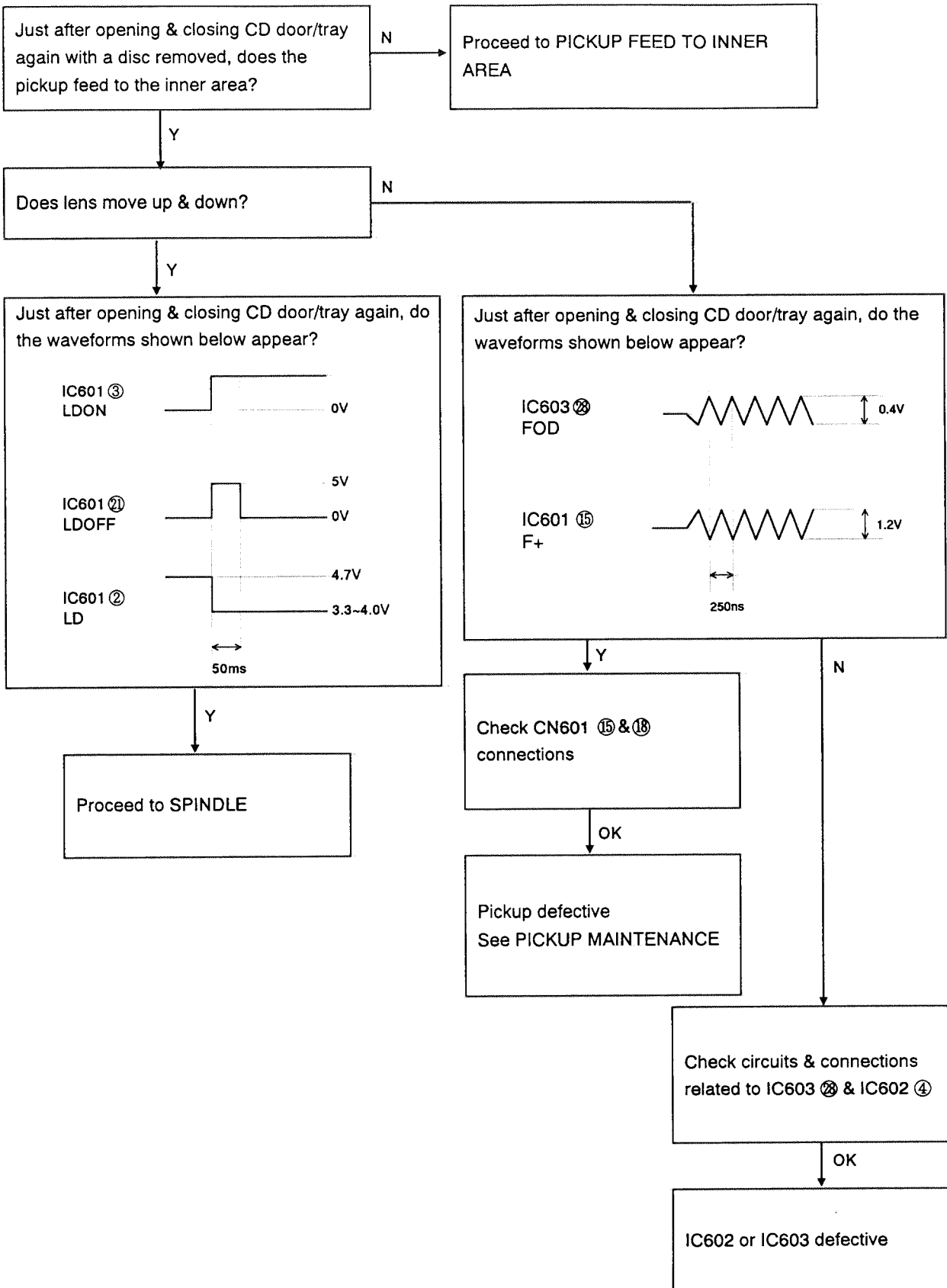
◆ General



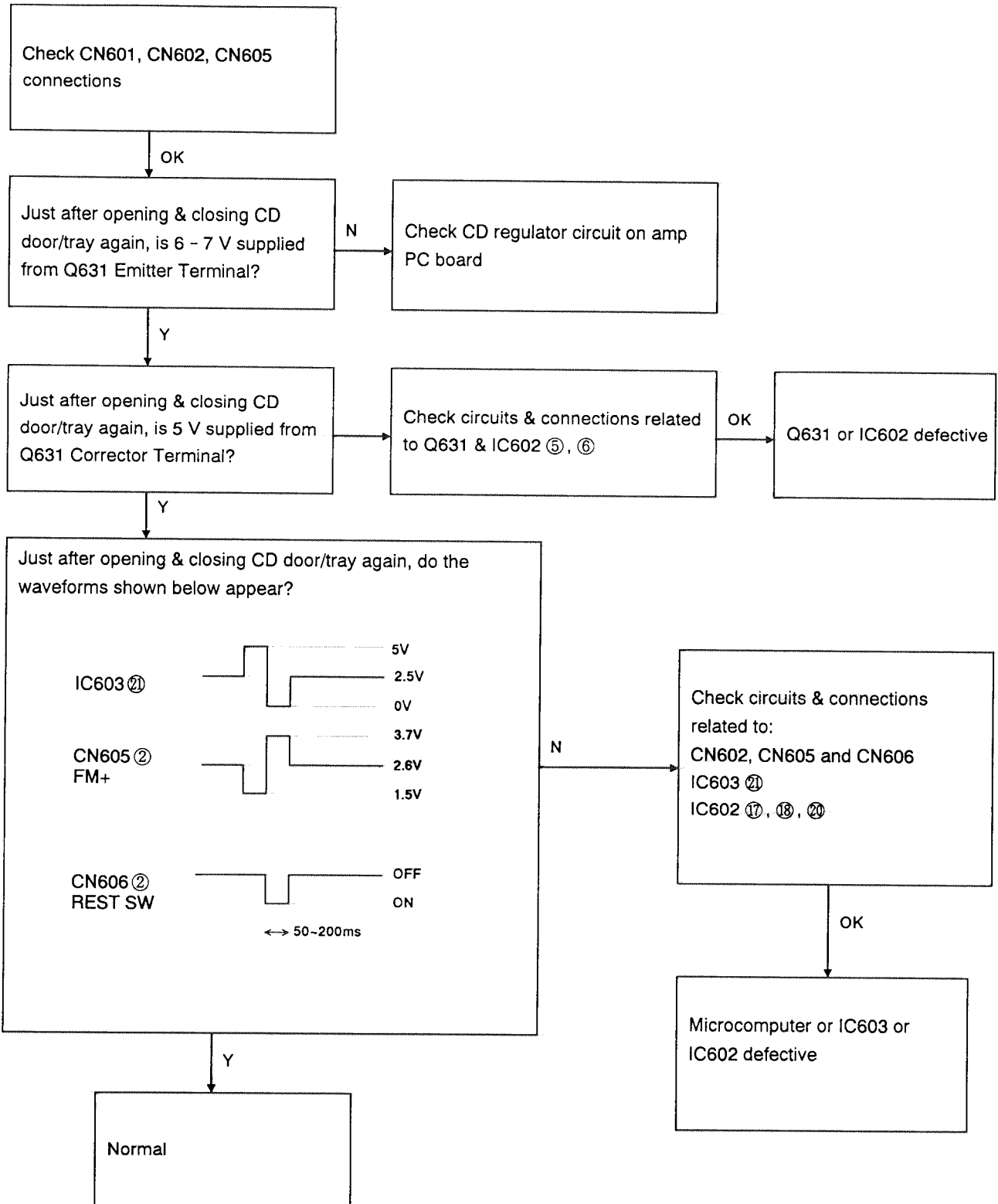
◆ Reading TOC



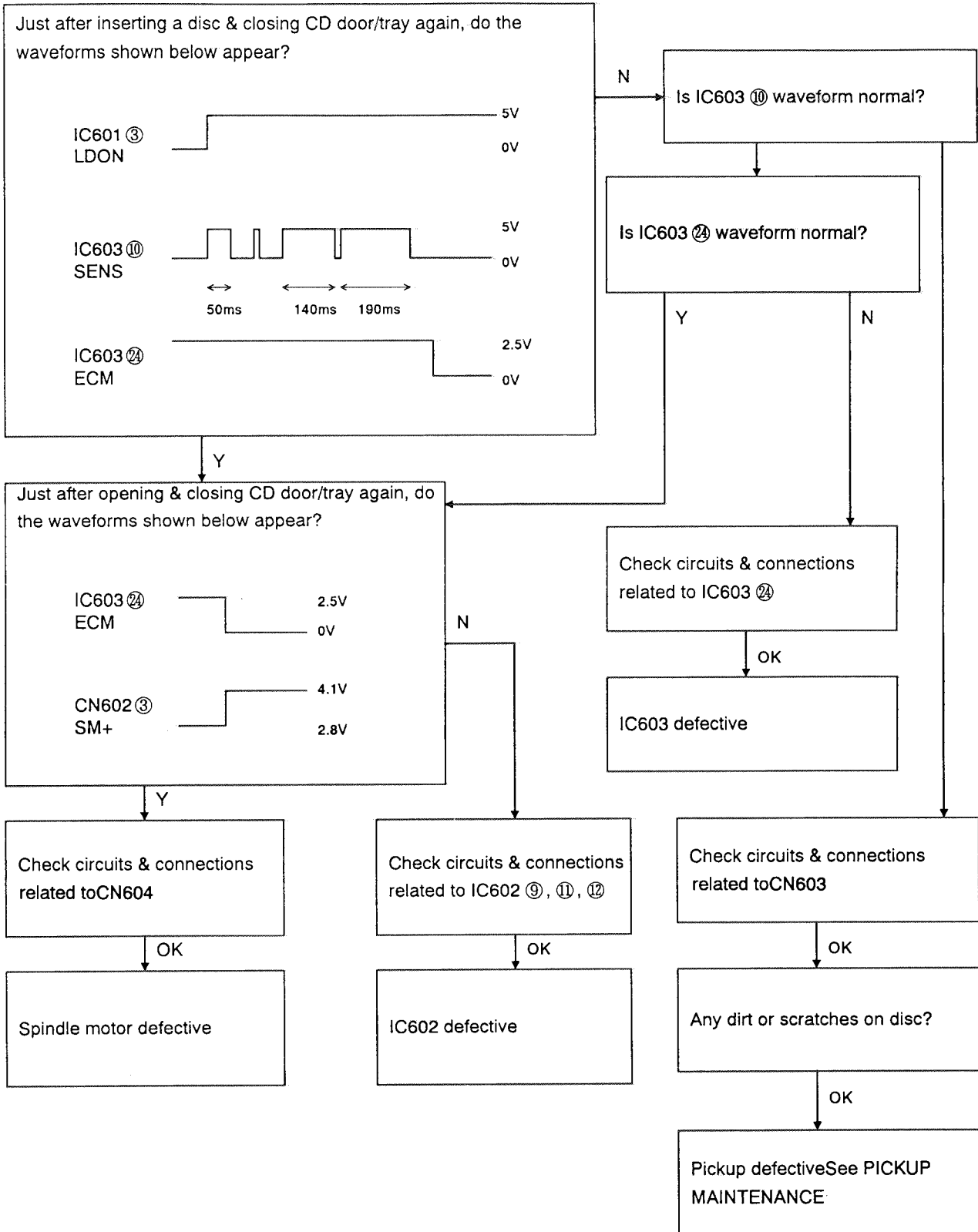
◆ Focus search



◆ Pickup feed to inner area



◆ Spindle



## 4 Main Adjustment

### ■ Measuring instructions required for adjustment

1. Low-frequency oscillator(oscillation frequency 50Hz~20kHz, 0dB output with 600 Ω impedance)
2. Attenuator(600 Ω impedance)
3. Electronic voltmeter
4. Distortion meter
5. Torque gauge(cassette for CTG-N,
6. Wow & flutter meter
7. Frequency counter meter
8. Oscilloscope
9. Ext. jig cord•••EXTRCNX1 – JIG

◇ Test tape

### ● Playback tape

VTT 712 (VT712) (tape speed ,wow flutter)

VTT 724 (VT724) (reference level)

VTT 739 (VT739) (playback frequency)

VTT 703 (VT703) (10kHz azimuth)

### ● Recording tape

AC 225(TS – 12) (normal tape)

AC 514(TS – 9) (chrome)

### ● Power supply voltage

Your local voltage

AC120V (60Hz)

### ■ Measuring instruments

### ● Radio section

◇ FM :400Hz, 22.5kHz deviation

◇ FM STEREO : 1kHz, 40kHz, deviation  
pilot signal 7.5kHz

◇ AM : 400Hz, 30%, modulation

◇ Reference output :

speaker output : 15mW(0.3V)/6 Ω

H.phone output : 0.15mW(0.07V)/32 Ω ,

◇ Standard position of function switch

Function switch : FM

Timer : OFF

Main volume : Reference output

Sound : Flat

### ● Amplifier section

◇ Reference output :

speaker output : 0dBs(0.755V)/6 Ω

H.phone output : – 10dBs(0.245V)/32 Ω

Reference input : – 20dBs / CN305

◇ Standard position of function switch

Function switch TAPE

Mode switch STEREO

### ● CD section

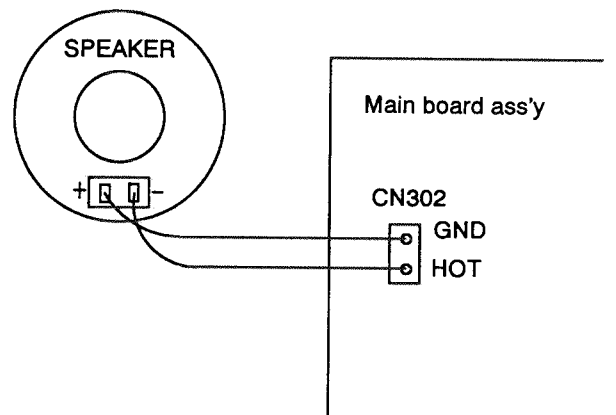
◇ Test disc (JVC CTS – 1000)

(CRG – 1242)

### ⚠ CAUTION

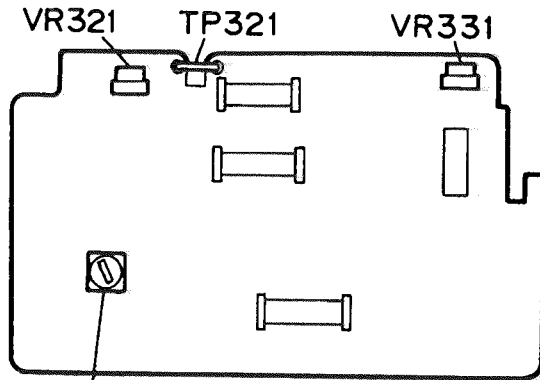
The electrical circuits of this system have been designed as shown in the diagram below to improve its sound quality.

The minus terminal of the speaker is not a gland.

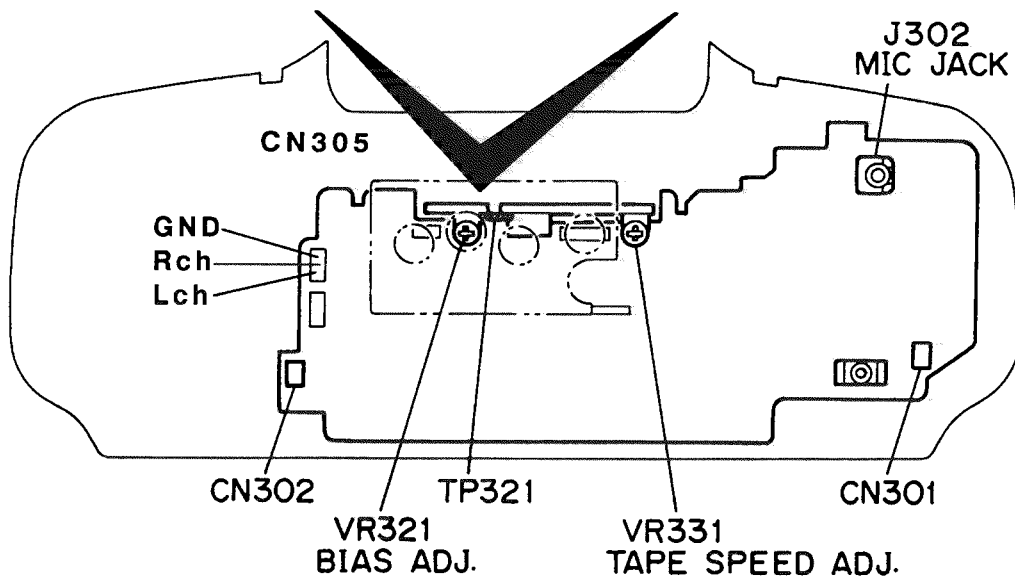


■ Adjusting point

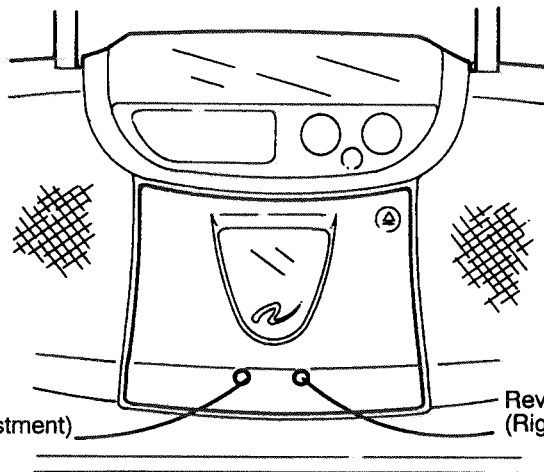
◆ Bias board



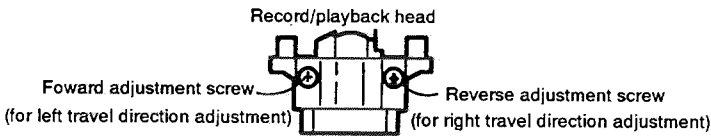
◆ Internal view of the front cabinet and adjusting point



◆ Head adjusting point of after assembly



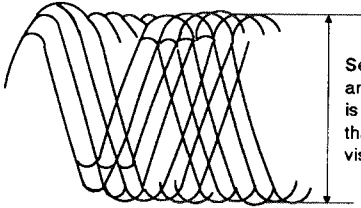
■ Amplifier adjustment

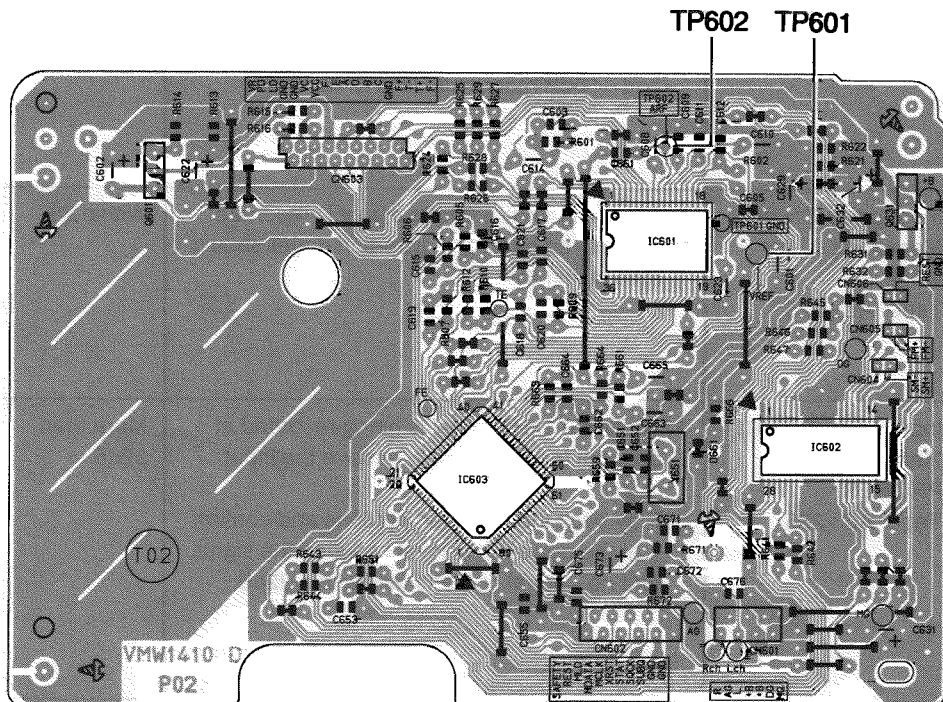
Items	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
1. Azimuth adjustment	Test tape: VT703 (10kHz) Measuring terminal: PHONES	<ol style="list-style-type: none"> <li>1. Connect the measuring instrument to the PHONES jack.</li> <li>2. Play back test tape VT703, then adjust the head azimuth screw for the maximum output level and minimum phase difference.</li> <li>3. Reverse the tape travel direction, then check to see if the output level is the same as in 2.</li> </ol>	Output level: Maximum Phase difference: Minimum (within 90)	
				
2. Tape speed adjustment and wow & flutter confirmation	Test tape: VT712 (3kHz) Measuring terminal: PHONES	<ol style="list-style-type: none"> <li>1. Connect the measuring instrument to the PHONES jack.</li> <li>2. Rewind test tape VT712, then play it back. Adjust VR701 until the frequency reads 3010 Hz.</li> <li>3. Confirm that the wow/flutter meter reads 0.25% (JIS WRMS) in 2.</li> </ol>	Tape speed: $3010 \pm 10\text{Hz}$  0.25% or less (JIS WRMS)	VR331
3. Playback output level confirmation	Test tape: VT724 (1kHz) Measuring terminal: PHONES	<ol style="list-style-type: none"> <li>1. Connect the measuring instrument to the PHONES jack.</li> <li>2. Play back test tape VT724(1kHz), then confirm that the output level falls within <math>-10\text{dB} \pm 3\text{dB}</math>.</li> </ol>	$-10\text{dB} \pm 3\text{dB}$	
4. Playback frequency characteristics confirmation	Test tape: VT739 (63/1k/10kHz) Measuring terminal: PHONES	<ol style="list-style-type: none"> <li>1. Connect the measuring instrument to the PHONES jack.</li> <li>2. Play back test tape VT739 (1kHz/10kHz), then confirm that the 10kHz playback level falls within <math>+4 \pm 4\text{dB}</math> with respect to the 1kHz output level.</li> </ol>	$+4 \pm 4\text{dB}$	
5. Auto tape select function confirmation		<ol style="list-style-type: none"> <li>1. Connect the measuring instrument to the PHONES jack.</li> <li>2. If a chrome tape detection hole is drilled in the VT739 cassette and the tape is played back, confirm that the 10kHz output level drops.</li> </ol>		
6. Bias frequency confirmation and adjustment	FM record mode Output point: TP321	<ol style="list-style-type: none"> <li>1. Set the unit to the FM recording mode.</li> <li>2. Connect the frequency counter to TP321, then confirm that its reading falls within <math>89\text{kHz} \pm 3\text{kHz}</math>. If it is outside this range, adjust the L3201 coil.</li> <li>3. Change the mode from FM to AM, then confirm that the frequency falls within the following ranges. (Preset 1): <math>86.2\text{kHz} \pm 3\text{kHz}</math> (Preset 2): <math>81.6\text{kHz} \pm 3\text{kHz}</math> The beat cut should be switched using a remote control unit.</li> </ol>	CUT1 $89 \pm 3\text{kHz}$ CUT2 $86.2 \pm 3\text{kHz}$ CUT3 $81.6 \pm 3\text{kHz}$	L3201



Items	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
7. Record/ playback frequency characteristics adjustment	Tape mode Input point: TP301 Measuring point: PHONES Tape: AC225	<ol style="list-style-type: none"> <li>1. Apply the input signal to TP301 on the unit.</li> <li>2. Connect the output to the PHONES jack.</li> <li>3. Load normal tape AC225, then set the unit to the record mode. Apply an input whose level is attenuated 20dB below the reference level, then switch the input between 1kHz and 10kHz several times.</li> <li>4. Adjust VR321 so that when the recorded portion is played back, the level deviation of the 10kHz signal with respect to 1kHz is <math>+4 \pm 1\text{dB}</math>.</li> </ol>	$+4 \pm 1\text{dB}$	VR321
8. Recording sensitivity confirmation	Input point: TP301 Measuring point: PHONES Tape: AC225	<ol style="list-style-type: none"> <li>1. Confirm that the level falls within the following ranges when the 1kHz - 20dB (attenuated by 20dB with respect to the reference level) signal with respect to the VT724 playback level is recorded and played back. Normal (AC225) tape: <math>+2 \pm 3\text{dB}</math> Chrome (AC514) tape: <math>-2 \pm 3\text{dB}</math></li> </ol>	Normal (1kHz/10kHz) : $+2 \pm 3\text{dB}$ , Chrome (1kHz/10kHz) - $2 \pm 3\text{dB}$	
9. ALC operation confirmation	Input point: TP301 Measuring point: PHONES Tape: AC225	<ol style="list-style-type: none"> <li>1. While the 1kHz signal is being recorded at an input level of - 20dB, change its input level from - 20dB to - 10dB.</li> <li>2. Play back the recorded portions and confirm that the deviation in level between the - 20dB and - 10dB recordings falls within 8dB.</li> </ol>	Within 8dB	
10. Record/ playback distortion factor confirmation	Input point: CN301 Measuring point: PHONES Tape: AC-225	<ol style="list-style-type: none"> <li>1. When the 1kHz - 20dBs signal is recorded and played back, the distortion meter should read within 6%.</li> </ol>	Within 6%	
11. Record/ playback S/N	Input point: CN301 Measuring point: PHONES Tape: AC-225	<ol style="list-style-type: none"> <li>1. While the 1kHz signal is being recorded at an input level of - 20dB, remove the input signal.</li> <li>2. Play back the recorded portions and confirm that the deviation in level between the signal and no-signal portions falls within 32dB.</li> </ol>	More than 32dB	

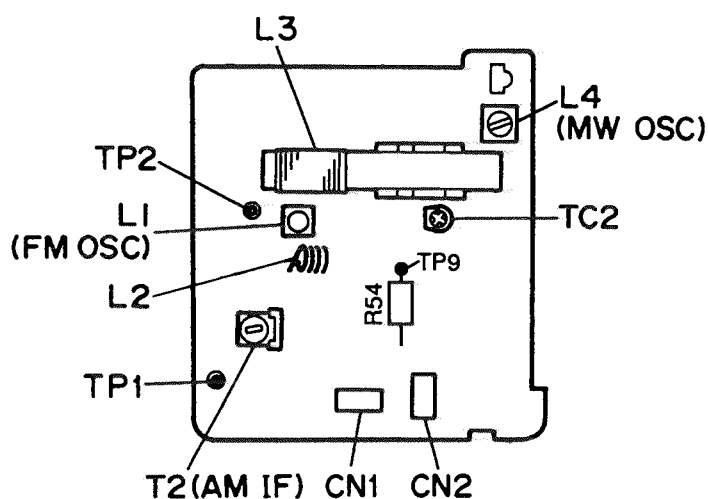
■ CD amplifier adjustment

Items	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
1. Jitter confirmation	Jitter meter: MJM-631 Oscilloscope Test points TP601: Ground side TP602: Hot side	Connect the jitter meter across TP601 and TP602, and confirm that the jitter meter reading is 27 nsec or less when "Track 1" on the test disc is played back.	27 nsec or less	
2. RF level (eye pattern) confirmation	Measuring instrument: Oscilloscope TP601: Ground side TP602: Hot side	Connect the oscilloscope across TP601 and TP602, and confirm that the peak-to-peak value of the oscilloscope waveform is within $1.1V \pm 0.2V$ .  Eye-pattern waveform    See that the peak-to-peak amplitude of this waveform is within the standard and that the waveform is clearly visible.	$1.1V \pm 0.2V$	
3. Outermost track area check	CTC-1000	Select track 28 on the test disc using direct access play. Confirm that the playback starts smoothly and is free of abnormalities such as sound skipping or jumping.		
4. Outer tracks to inner tracks movement check		Let the pickup skip from the outermost track of the disc to track 1, and confirm that it takes less than 10 seconds for the player to enter the play mode.	Within 10 seconds	



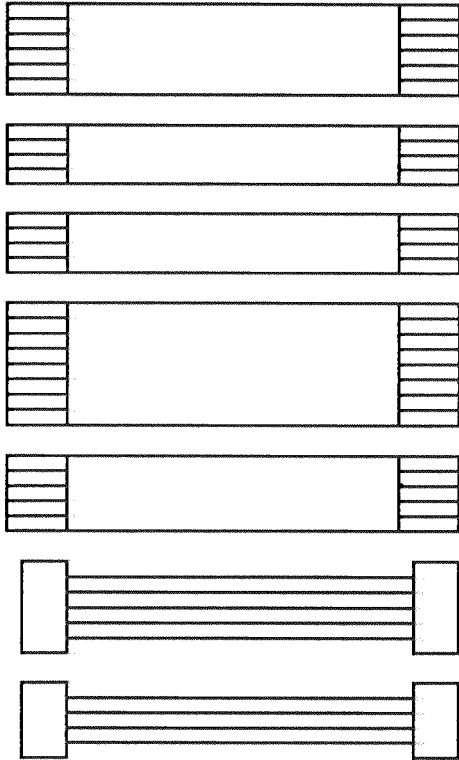
## ■ Tuner adjustment

Items	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
FM IF adjustment		No adjustment is required because a fixed IF is used.		
MPX adjustment		No adjustment is required because a ceramic oscillator is used.		
FM tracking adjustment		No adjustment is required because a fixed coil is used.		
AM tracking adjustment		<ol style="list-style-type: none"> <li>1. Confirm that 530kHz (preset 1) is receivable.</li> <li>2. Tune to 1710kHz (preset 2). If the voltage at TP9 exceeds 5.0V, adjust the L-4 coil so that the voltage is <math>5.0 \pm 0.1V</math>. (If the voltage is below 5.0V, no adjustment is required.)</li> <li>3. Tune to 600kHz (preset 3), then adjust L3 so that the output level is maximum.</li> <li>4. Tune to 1500kHz (preset 4), then adjust TC2 so that the output level is maximum.</li> <li>5. Repeat the adjustments described in 3 and 4 until the output is maximum.</li> </ol>	$5.0 \pm 0.1v$ (If below 5.0V, no adjustment is required.) Max. level Max. level Max. level	L4 L3 TC2 L3 TC2



## 5 Jig list

### ■ Extention cable parts number and using location



Extention cable kit number : EXTRCNX1 - JIG

CD amp. board (CN602) ⇔ Microprocessor board (CN703)  
11-pin card wire

CD amp. board (CN601) ⇔ Main board (CN307)  
7-pin card wire

CD LED board (CN803) ⇔ Microprocessor board (CN705)  
6-pin card wire

Microprocessor board (CN701) ⇔ Main board (CN304)  
15-pin card wire

Microprocessor board (CN702) ⇔ Bias board (CN332)  
9-pin card wire

Main board (CN303) ⇔ Bias board (CN322)  
10-pin card wire

Main board (CN901) ⇔ Power supply board (CN902)  
5-pin card wire

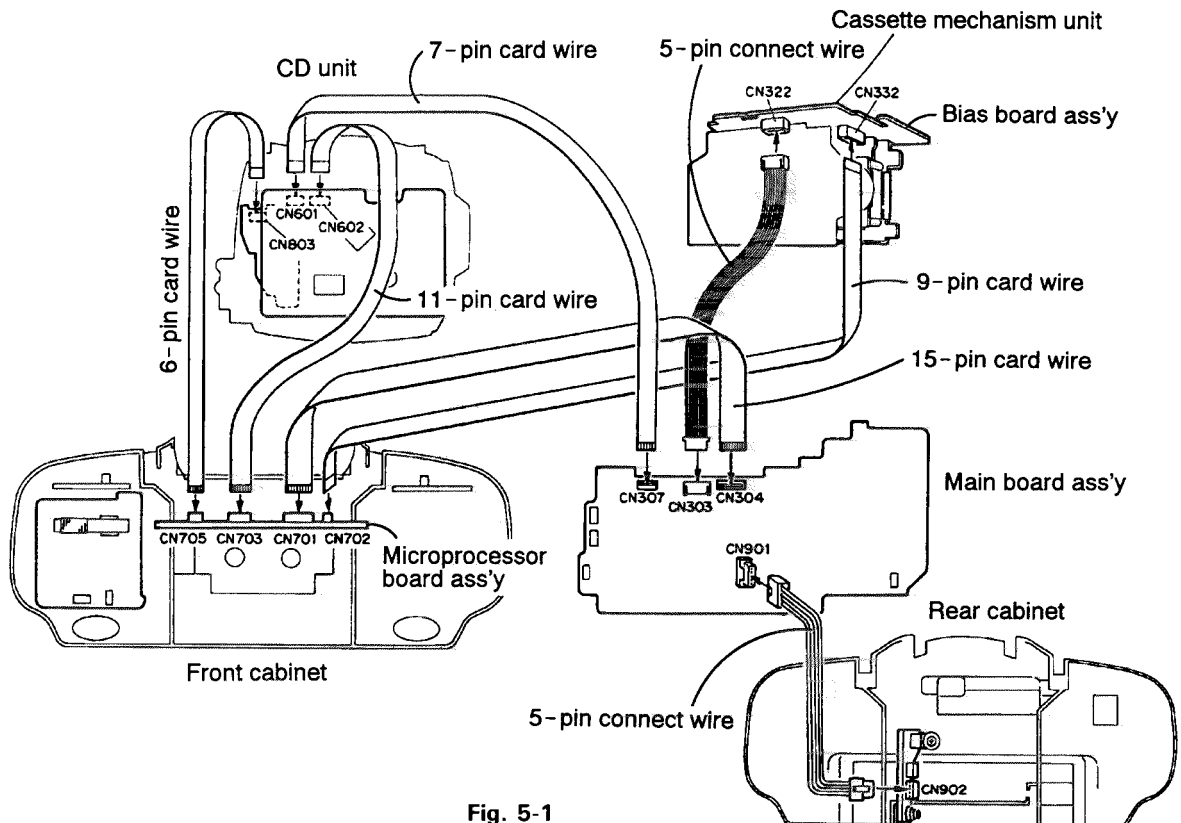


Fig. 5-1

# 6 Wiring connections

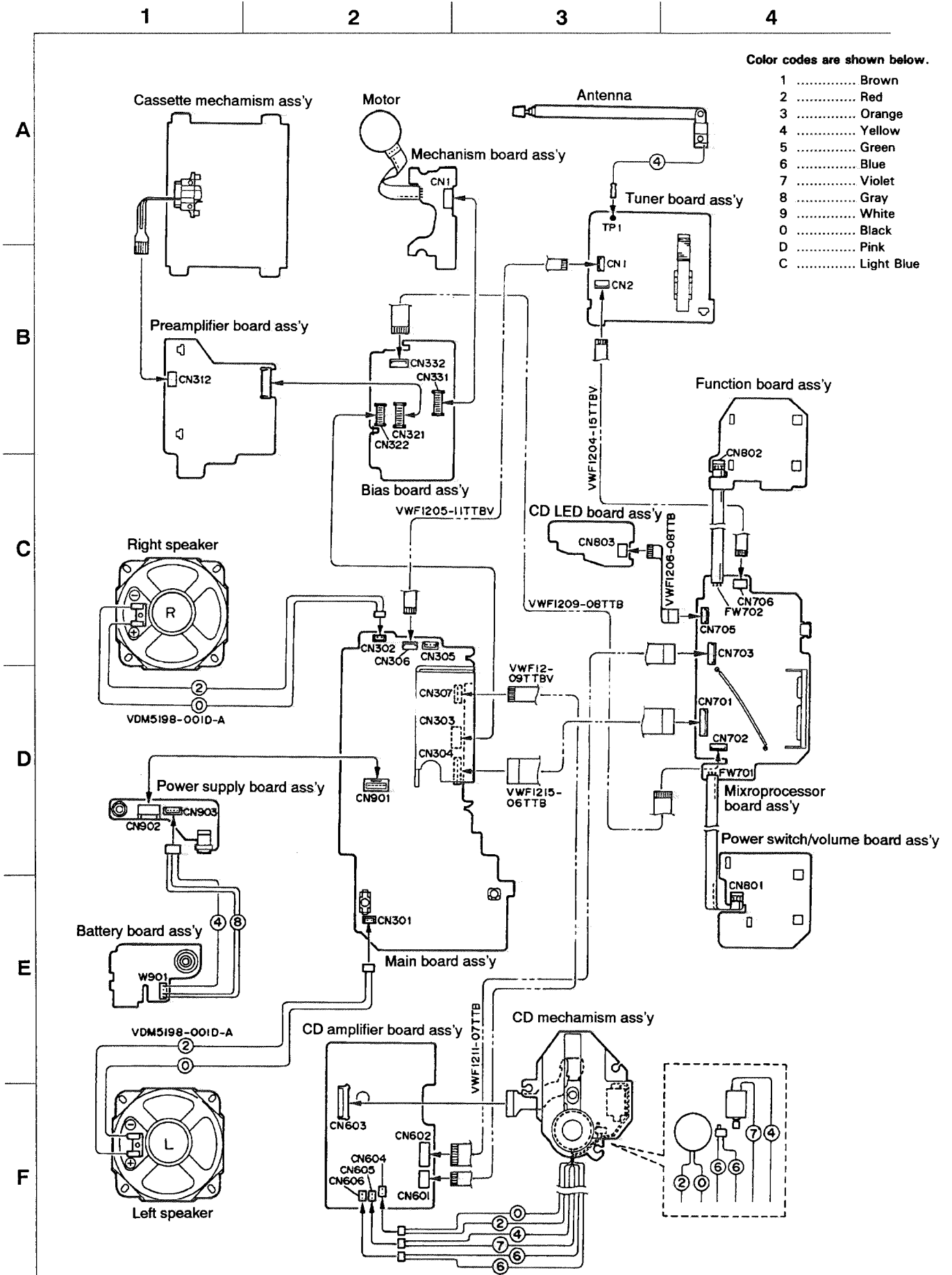
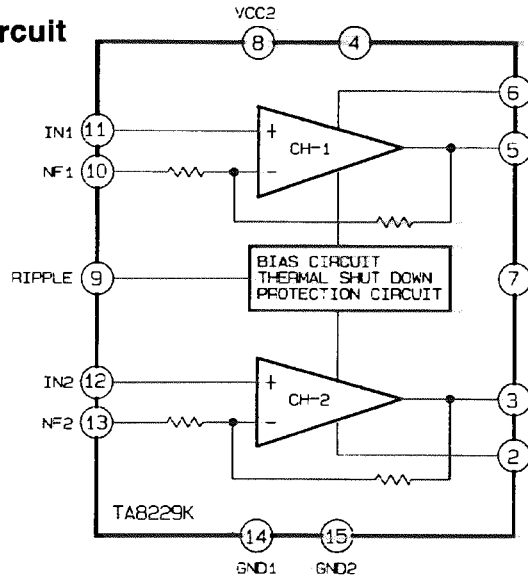
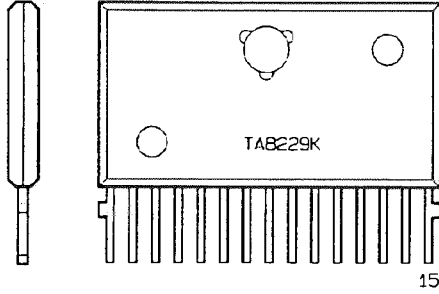


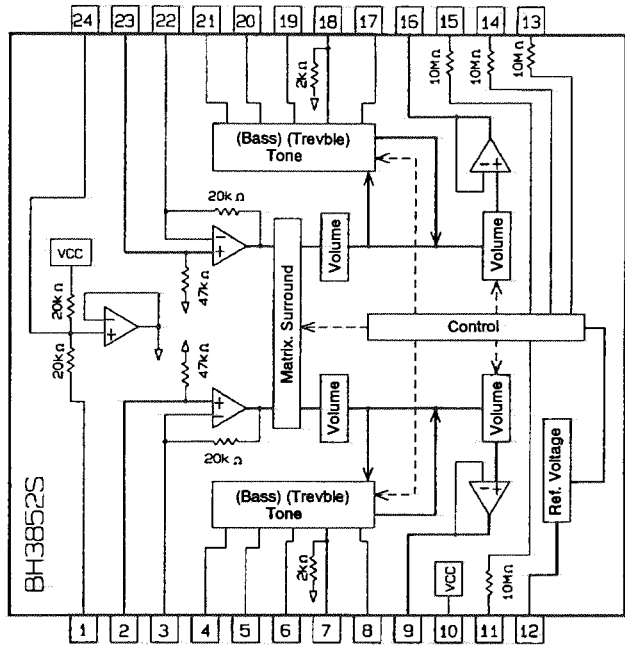
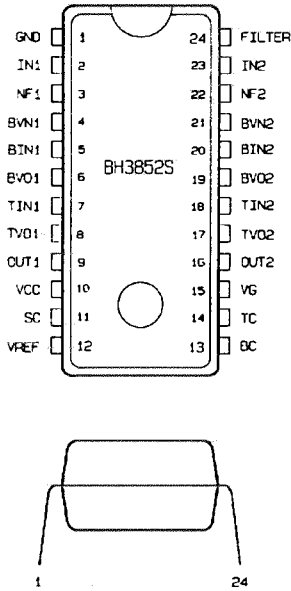
Fig. 6-1

## 7 Block diagram ■ Integrated circuit

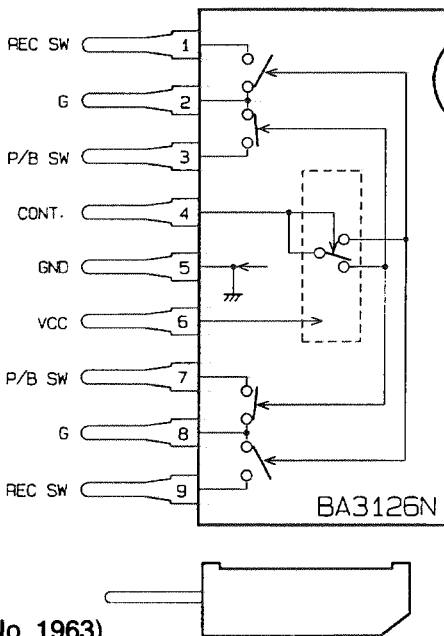
### ◆ IC301 (TA8229K) POWER AMP.



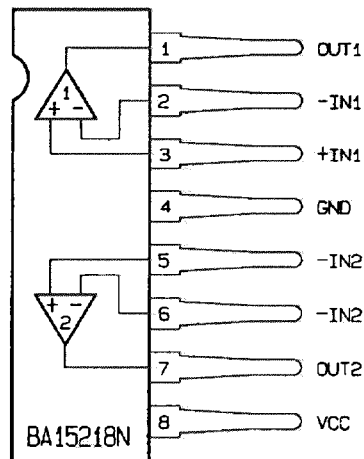
### ◆ IC302(BA3852S)VO/TONE CONT.



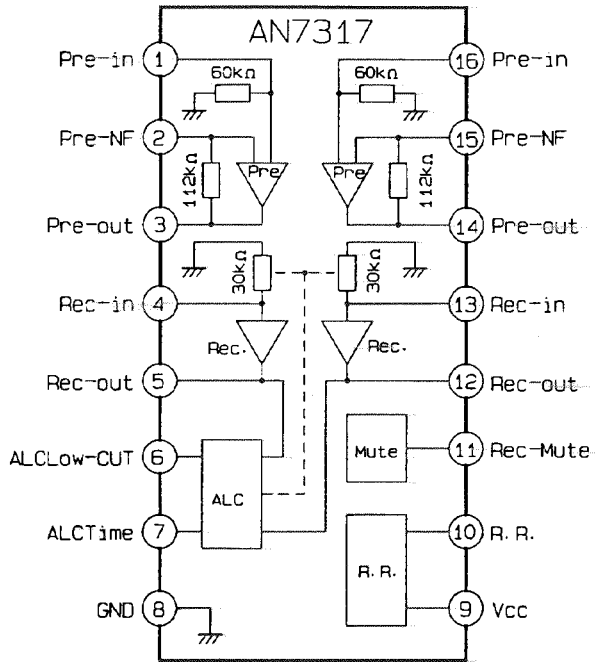
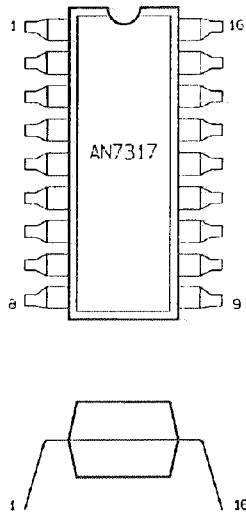
### ◆ IC311(BA3126N) R/P SWITCH



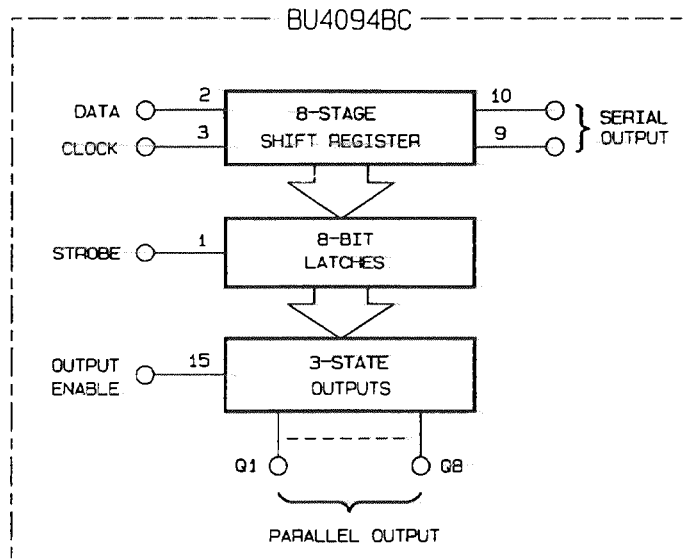
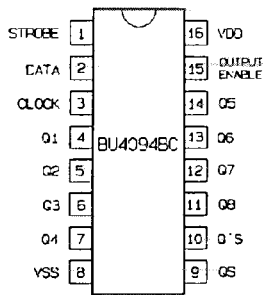
### ◆ IC304(BA15218N)SUPER BASS



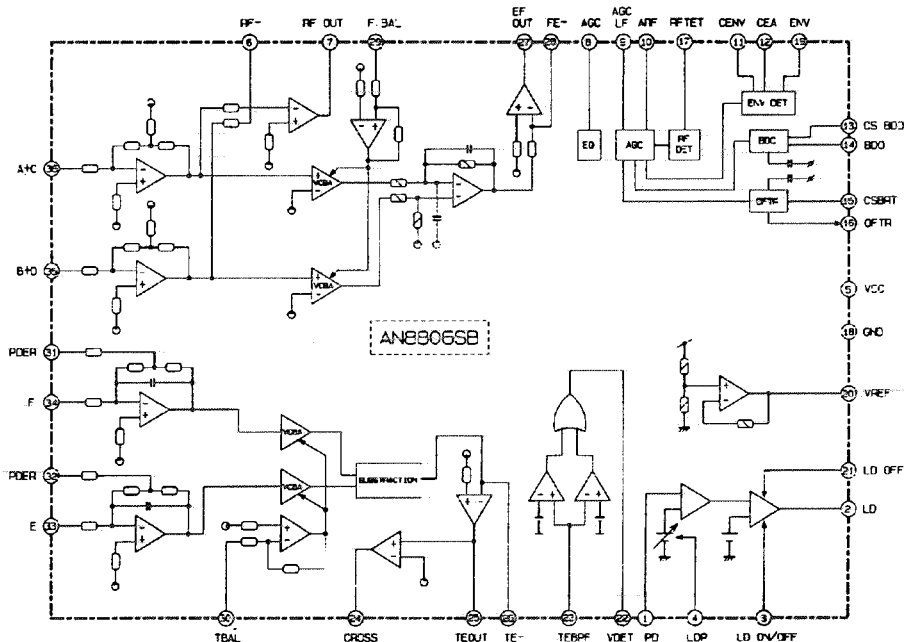
◆ IC312(AN7317)PB/REC AMP.



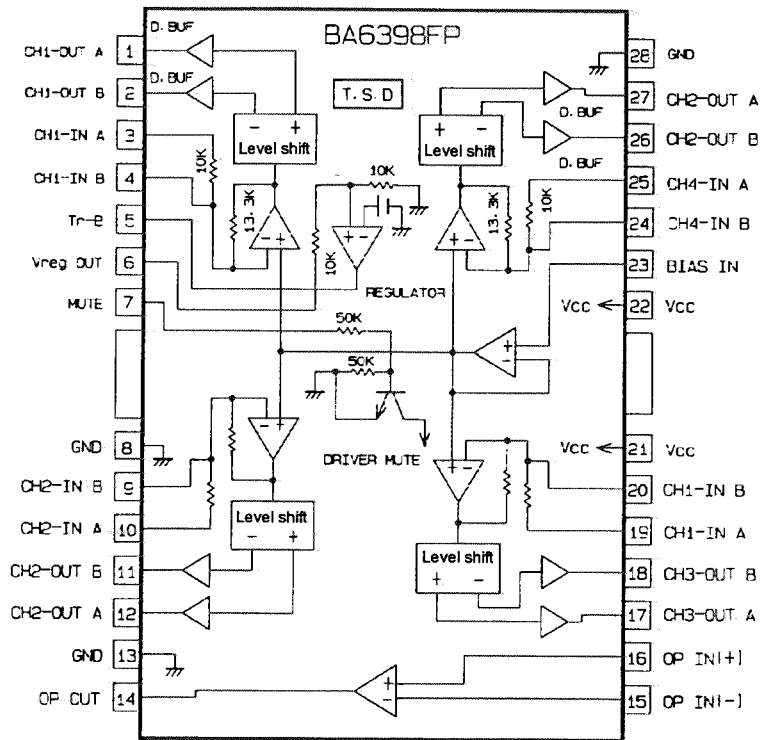
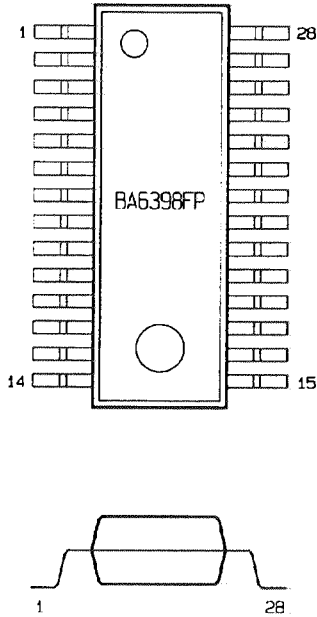
◆ IC331(BU4094BC)



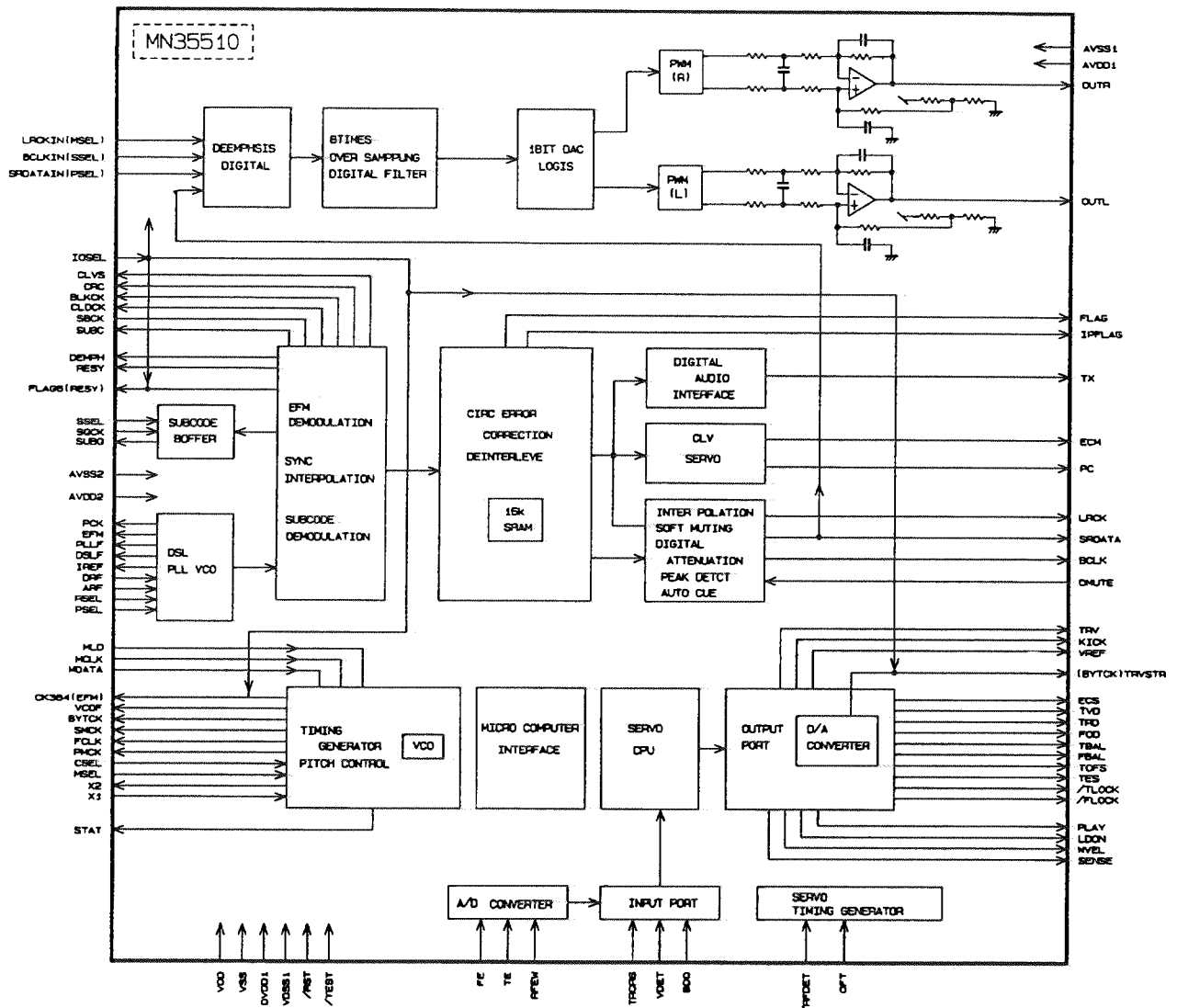
◆ IC601(AN8806SB) RF AMP.



◆ IC 602(BA6398FP)

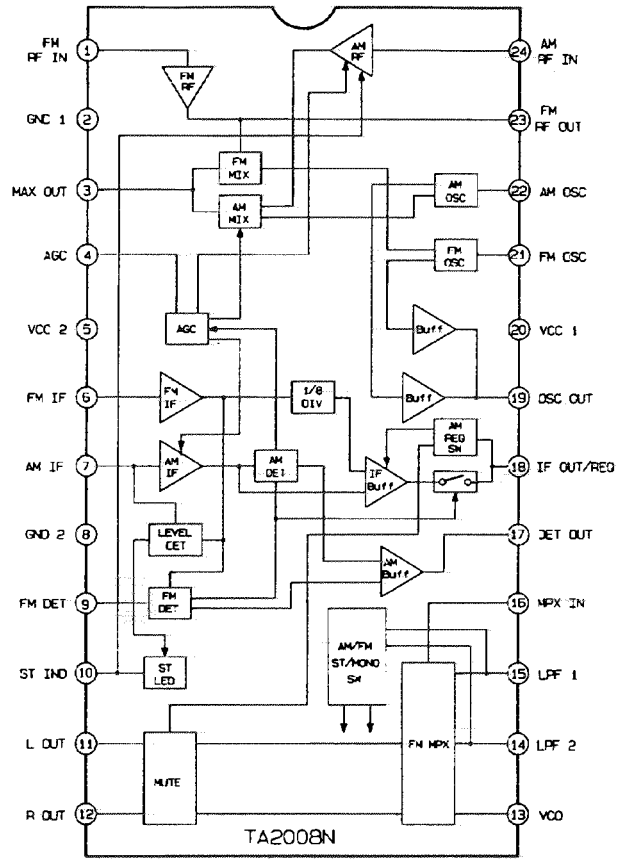
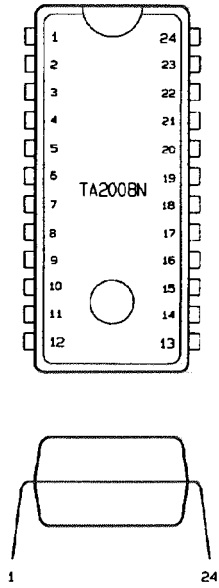


◆ IC603(MN35510) DIGITAL SERVO

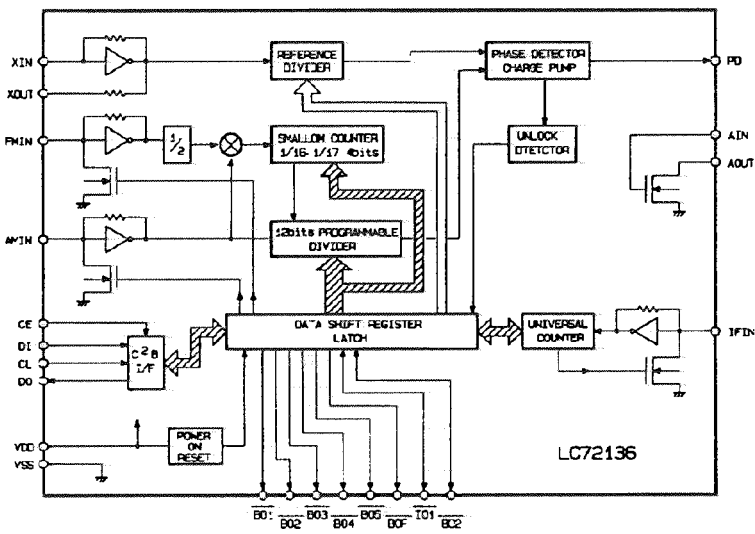
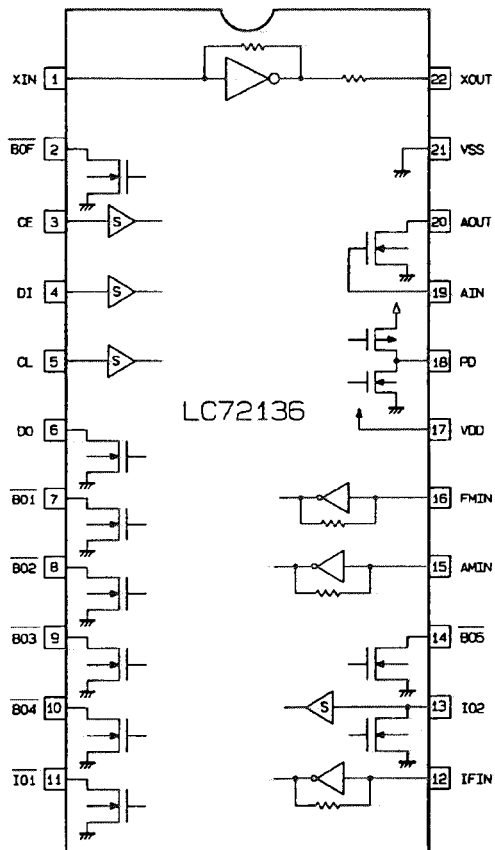




◆ IC 2(TA2008N)IF&MPX



◆ IC 3(LC72136) PLL

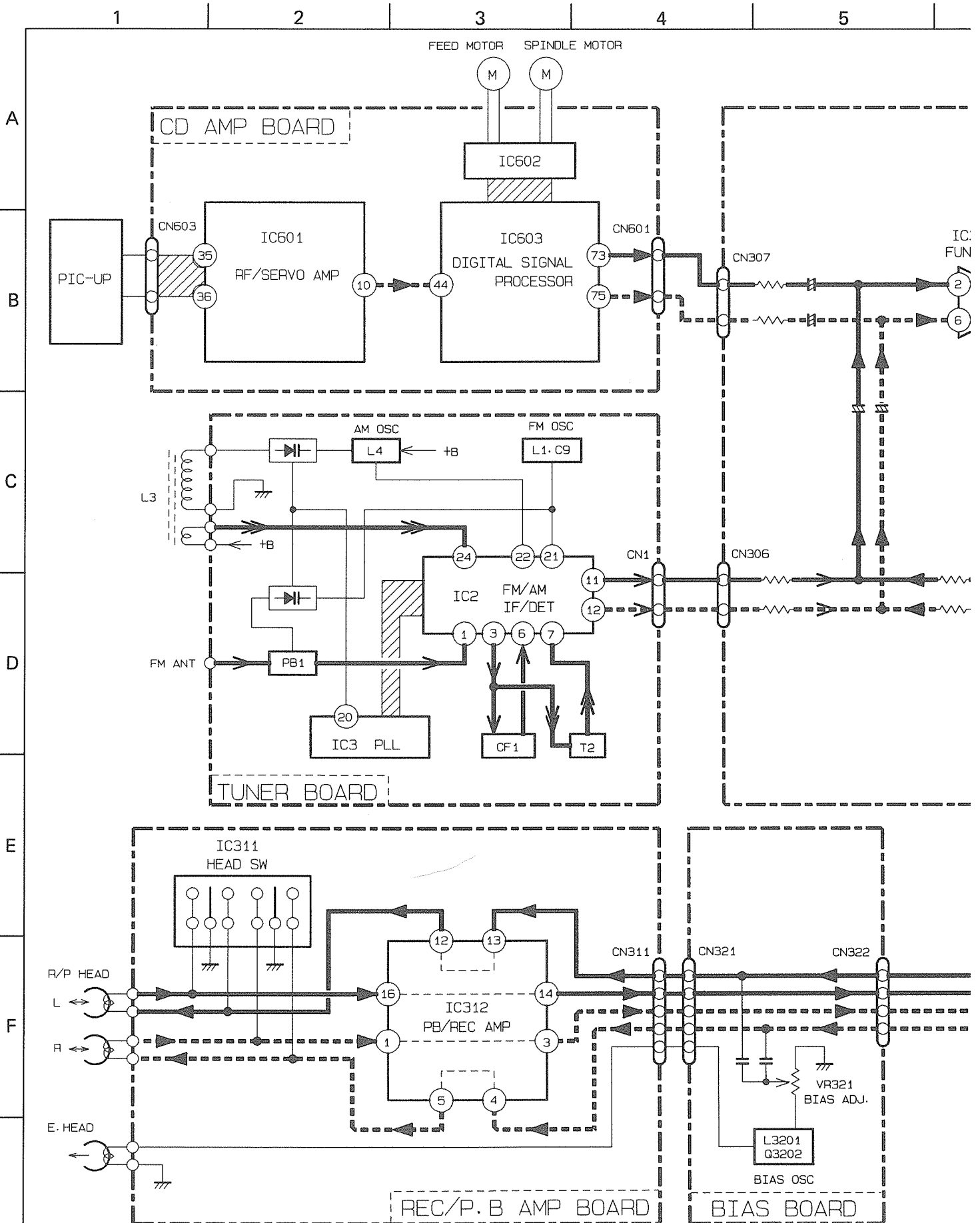


### ■ IC701 MN171603J8F Description of pin function

No.	Signal Name	I/O	Explanation for this signal	ACT	No.	Signal name	I/O	Explanation for this signal	ACT
1	HALL	I	TAPE COUNTER	-	44	/MPX	I	TUNER STEREO	L
2	PLAY	I	TAPE PLAY SW	L	45	CLOCK	I	CLOCK KEY	L
3	AVSS		ANALOG GND		46	WAKEUP	I	WAKEUP TIMER KEY	L
4	KEY1	I	KEY IN 1	-	47	AC/DC	I	AC/DC DETECT	-
5	KEY2	I	KEY IN 2	-	48	STTU	O	STROBE TUNER	L
6	TAPE	I	TAPE SW	-	49	+ BCTL	O	+ B CONTROL	L
7	REST	I	REST SW	L	50	LIVE	O	LIVE SURROUND	H
8	BATT	I	BATTERY VOLTAGE	-	51	F.TU	O	FUNCTION TUNER	H
9	SAFETY	I	SAFETY DETECT	-	52	F.CD	O	FUNCTION CD	H
10	CLOSE	I	DOOR CLOSE	L	53	POUT	O	POWER CONTROL	H
11	NC		NC		54	TRE	O	PWM TREBLE	-
12	AVDD		ANALOG VDD		55	BASS	O	PWM BASS	-
13	VLC1		LCD VOLTAGE		56	VOL	O	PWM VOL	-
14	VLC2		↓		57	CLD1	O	CD LED 1	H
15	VLC3		↓		58	CLD2	O	CD LED 2	H
16	COM3	O	LCD COMMON		59	CLD3	O	CD LED 3	H
17	COM2	O	↓		60	MLD	O	MICOM COMMAND LOAD	L
18	COM1	O	↓		61	MDATA	O	MICOM COMMAND DATA	-
19	COM0	O	↓		62	MCLK	O	MICOM COMMAND CLK	↕
20	SEG0	O	LCD SEGMENT		63	XRST	O	CD LSI RESET	-
21	SEG1	O			64	SMUTE	O	SYSTEM MUTE	L
22	SEG2	O			65	AHB	O	ACTIVE HYPER BASS	H
23	SEG3	O			66	BEAT	O	BEAT	-
24	SEG4	O			67	NC		NC	
25	SEG5	O			68	RST	I	RST	L
26	SEG6	O			69	X1		X1	
27	SEG7	O			70	X2		X2	
28	SEG8	O			71	VSS		VSS	
29	SEG9	O			72	OSC1		OSC1	
30	SEG10	O			73	OSC2		OSC2	
31	SEG11	O			74	VDD		VDD	
32	SEG12	O			75	STAT	I	STATUS	-
33	SEG13	O			76	SQCK	O	SUBQ CLOCK	↕
34	SEG14	O			77	SUBQ	I	SUBQ DATA	-
35	SEG15	O			78	BUQ	I	BUCK UP DETECT	H
36	SEG16	O			79	STTA	O	STROBE TAPE	L
37	SEG17	O			80	CK	O	SERIAL CLOCK	↕
38	SEG18	O			81	SI	I	SERIAL DATA IN	-
39	SEG19	O			82	SO	O	SERIAL DATA OUT	-
40	SEG20	O	↓		83	PIN	I	POWER KEY	L
41	SEG21	O	NC		84	REM	I	REMOCON IN	↕
42	SEG22	O	NC						
43	SEG23	O	NC						



■ Signal block diagram



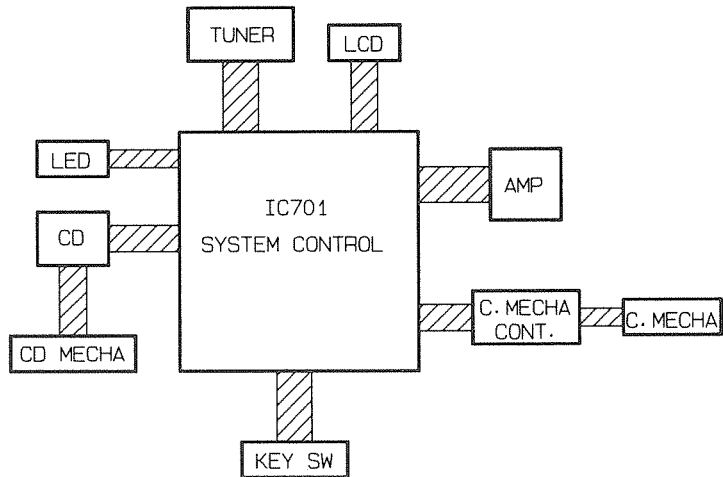
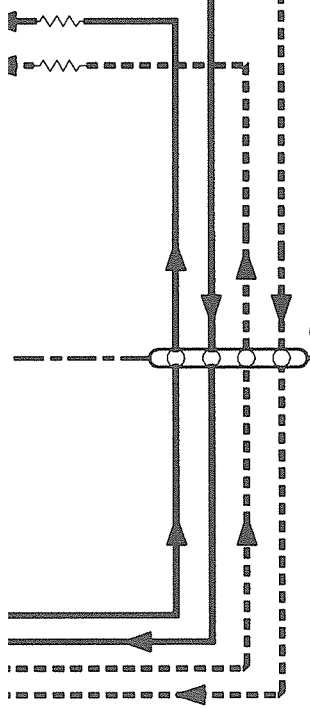
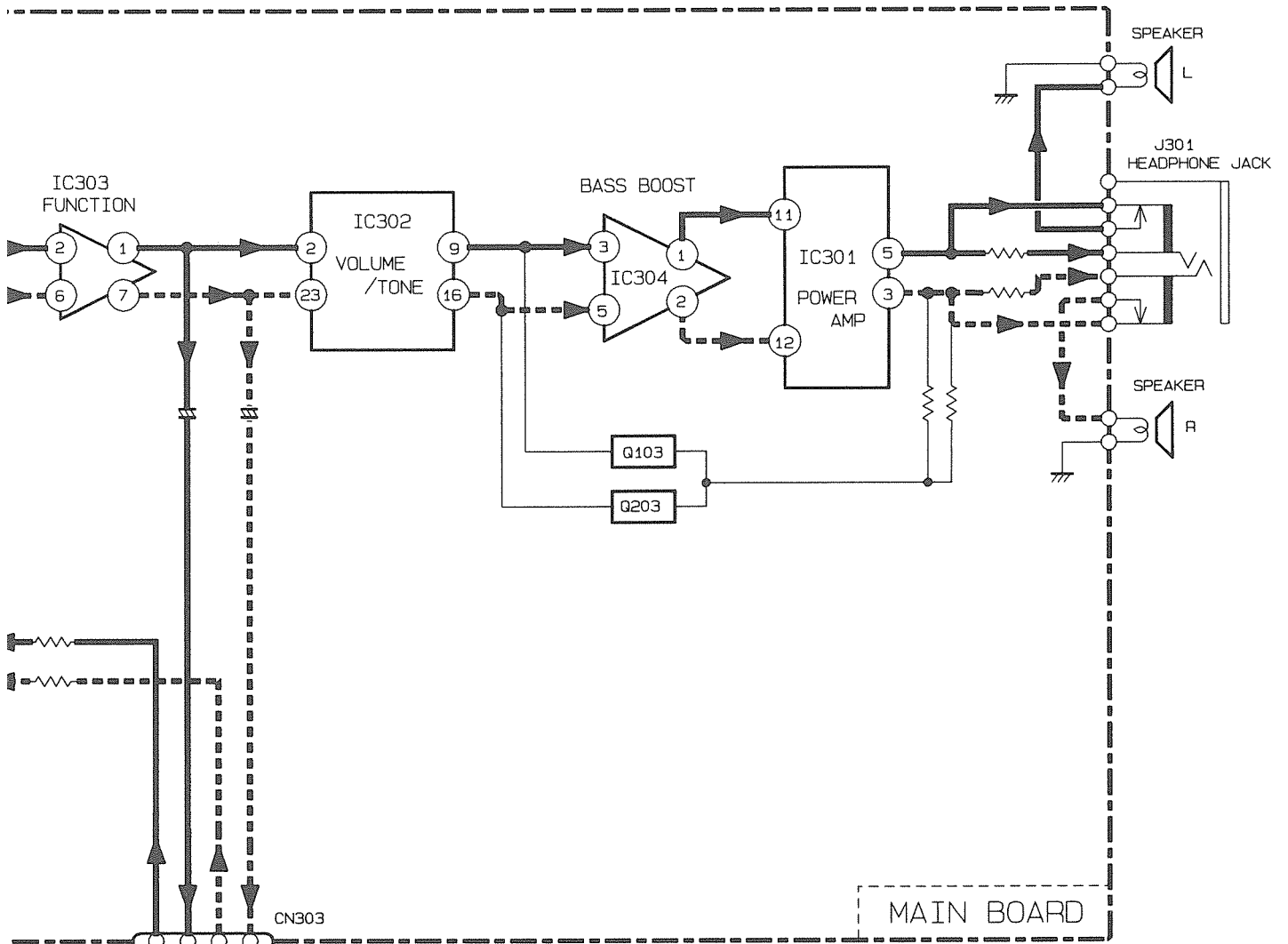
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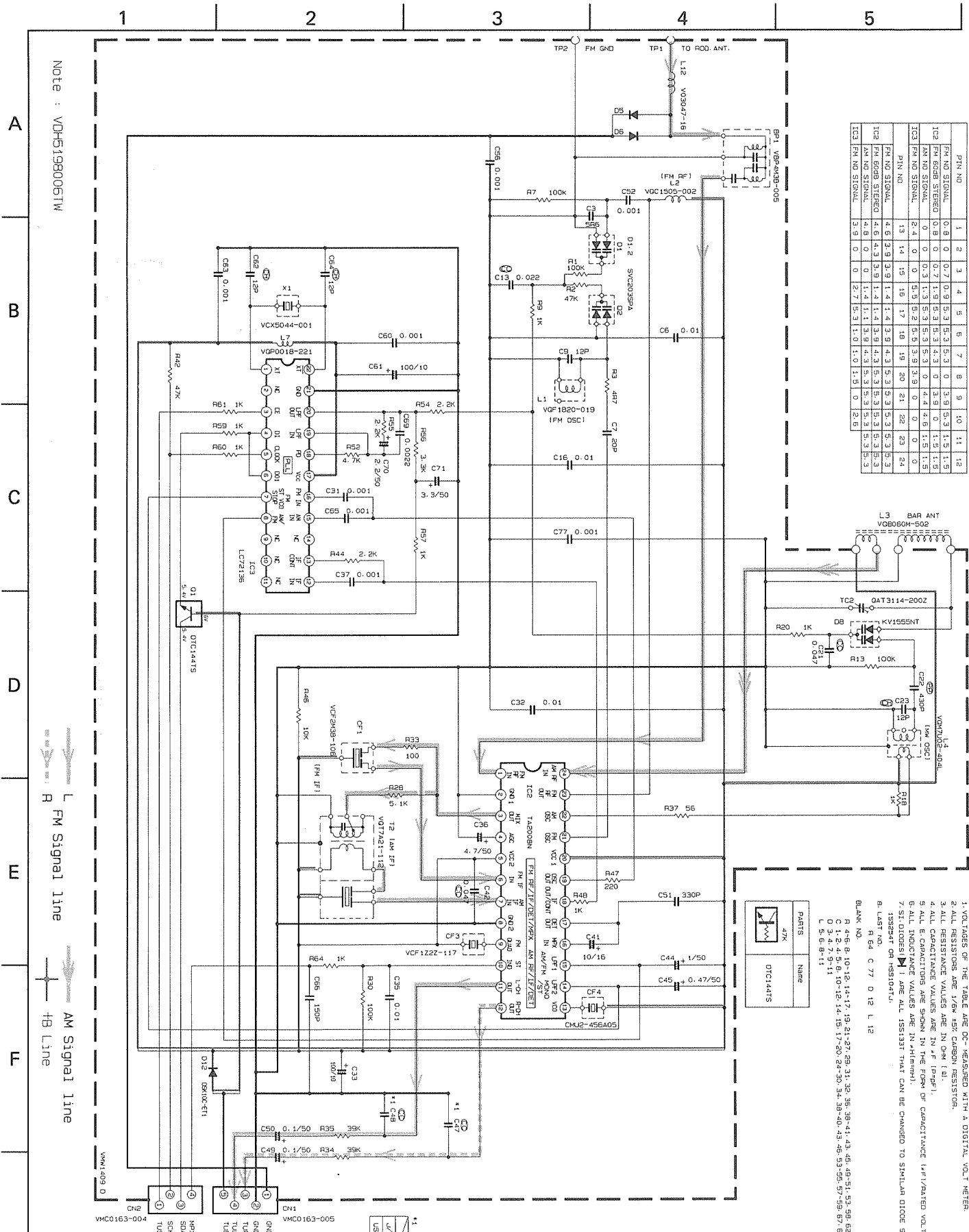
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**8 Standard circuit diagram ■ Tuner circuit**

Note : VH-51980061W



To A-3 on page 53 To F-1 on page 55

Fig. 8-1

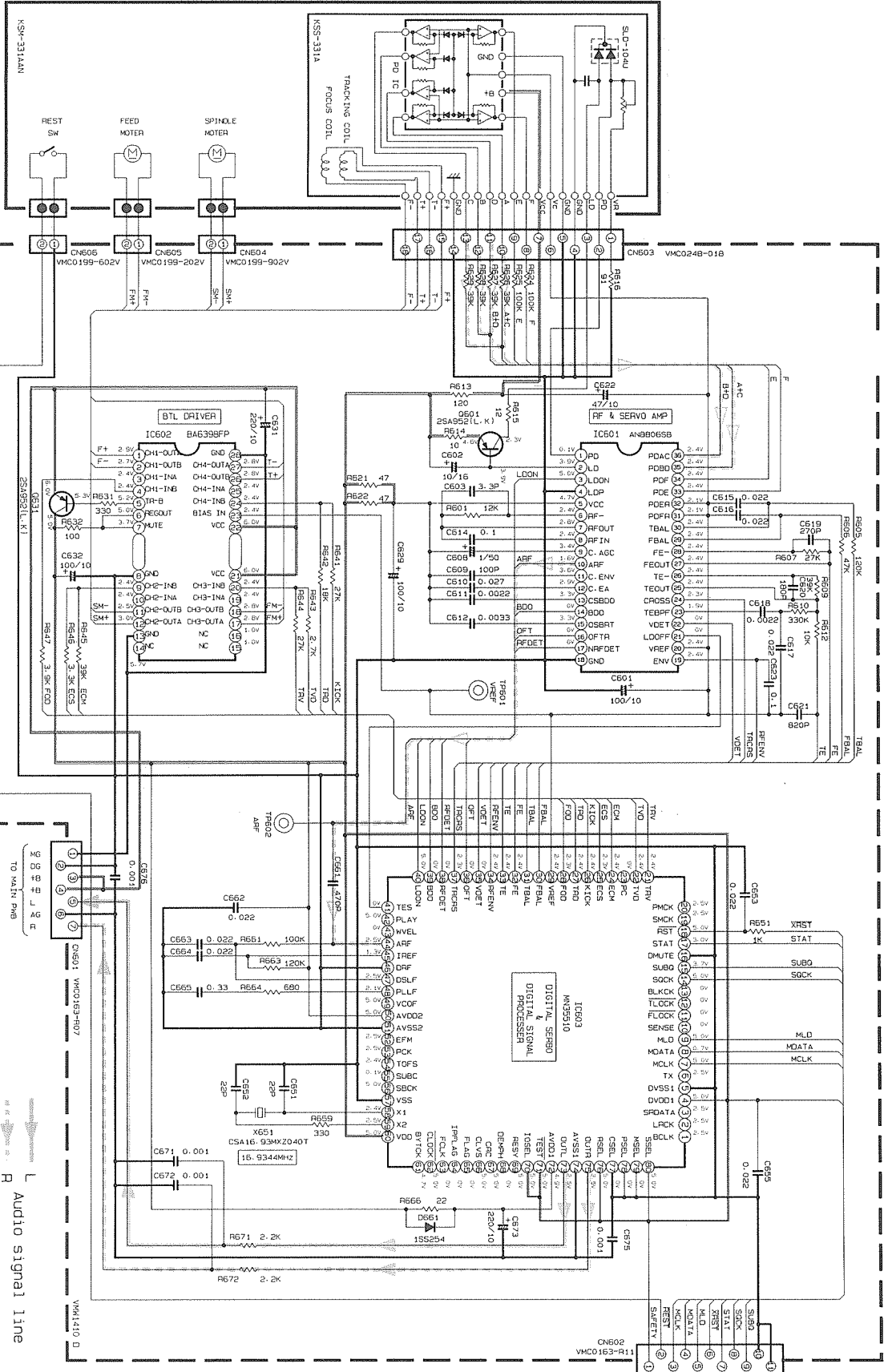
(No. 1963) 52

- NOTES
- 1. VOLTAGES OF THE TABLE ARE DC - MEASURED WITH A DIGITAL VOLTMETER.
  - 2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR.
  - 3. ALL CAPACITANCE VALUES ARE IN PPF.
  - 4. ALL CAPACITANCE VALUES ARE IN PPF.
  - 5. ALL CAPACITANCE VALUES ARE IN PPF.
  - 6. ALL INDUCTANCE VALUES ARE IN MH(MH).
  - 7. S.I. ORDER IS 10<sup>-9</sup> ARE ALL INDICATED THAT CAN BE CHANGED TO SIMILAR DIODES SUCH AS 1S5947 OR H5A1047.
  - 8. LAST NO. R 64 C 77 D 12 L 12
  - 9. R 45 R 10-12-14-17-19-21-27-29-31-32-35-38-41-43-48-49-51-53-59-62-63-65-67-70-72-73-74-75-76-77-79-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200

CD amplifier circuit

Note : VDH519B001CW NEW

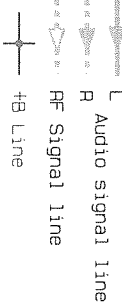
- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLTMETER
  2. VALUES OTHERWISE SPECIFIED. RESISTORS ARE 1/8W 5% CARBON RESISTOR.
  3. ALL CAPACITORS ARE CERAMIC CAPACITORS UNLESS OTHERWISE SPECIFIED.
  4. ALL CAPACITORS ARE CERAMIC CAPACITORS UNLESS OTHERWISE SPECIFIED.
  5. ALL CAPACITORS ARE CERAMIC CAPACITORS UNLESS OTHERWISE SPECIFIED.



PN NO	1	2	3	4	5	6	7	8	9	10	11	12
FROM ORIGINAL	0, 0, 0	1, 0, 7	0, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0	3, 9, 15, 3, 1, 5, 3, 1, 0



To B-1 on page 55

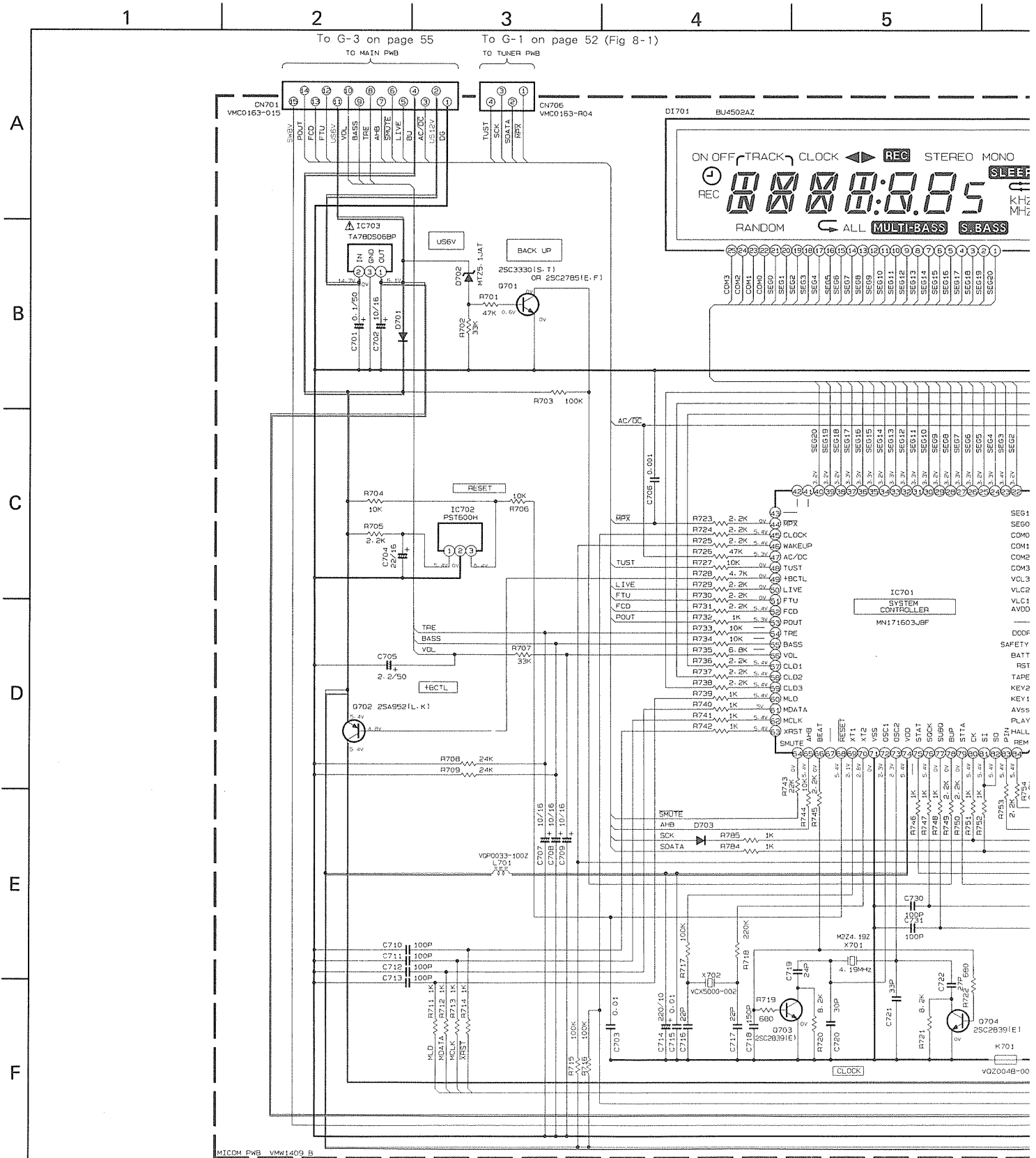


- NOTES
1. VOLTAGES OF THE TABLE ARE DC-MEASURED WITH A DIGITAL VOLTMETER.
  2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR.

Fig. 8-2

To F-8 on page 53

# System control circuit



**NOTES**

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION --- CD MODE - VOL 15: SOUND FLAT
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHMS (Ω).
- ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN pF (PF).
- ALL INDUCTANCE VALUES ARE IN mH (MH).
- ALL ELECTROLYTIC CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
- ALL DIODES ARE 1SS524T OR H5S104T.

Fig. 8-3



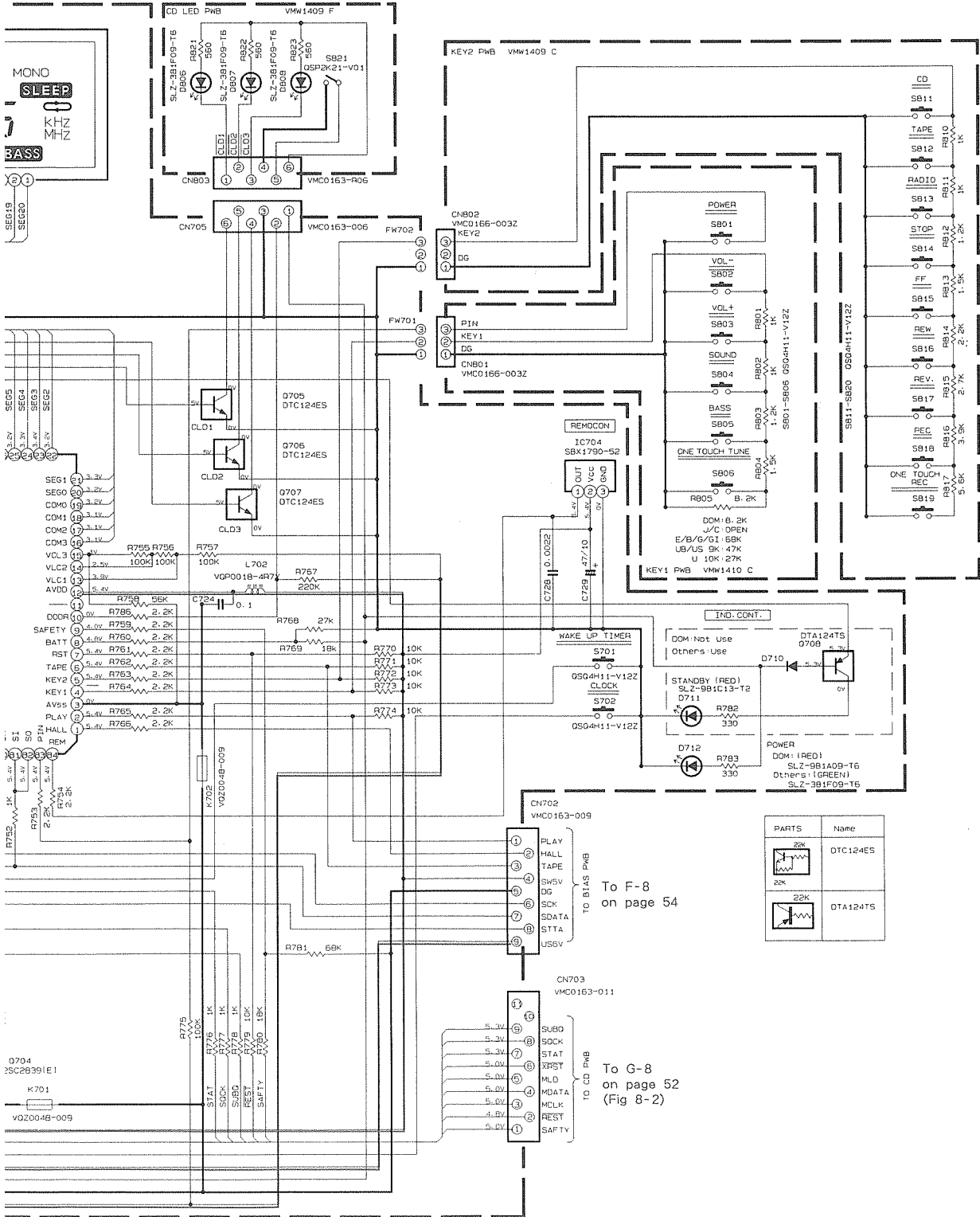
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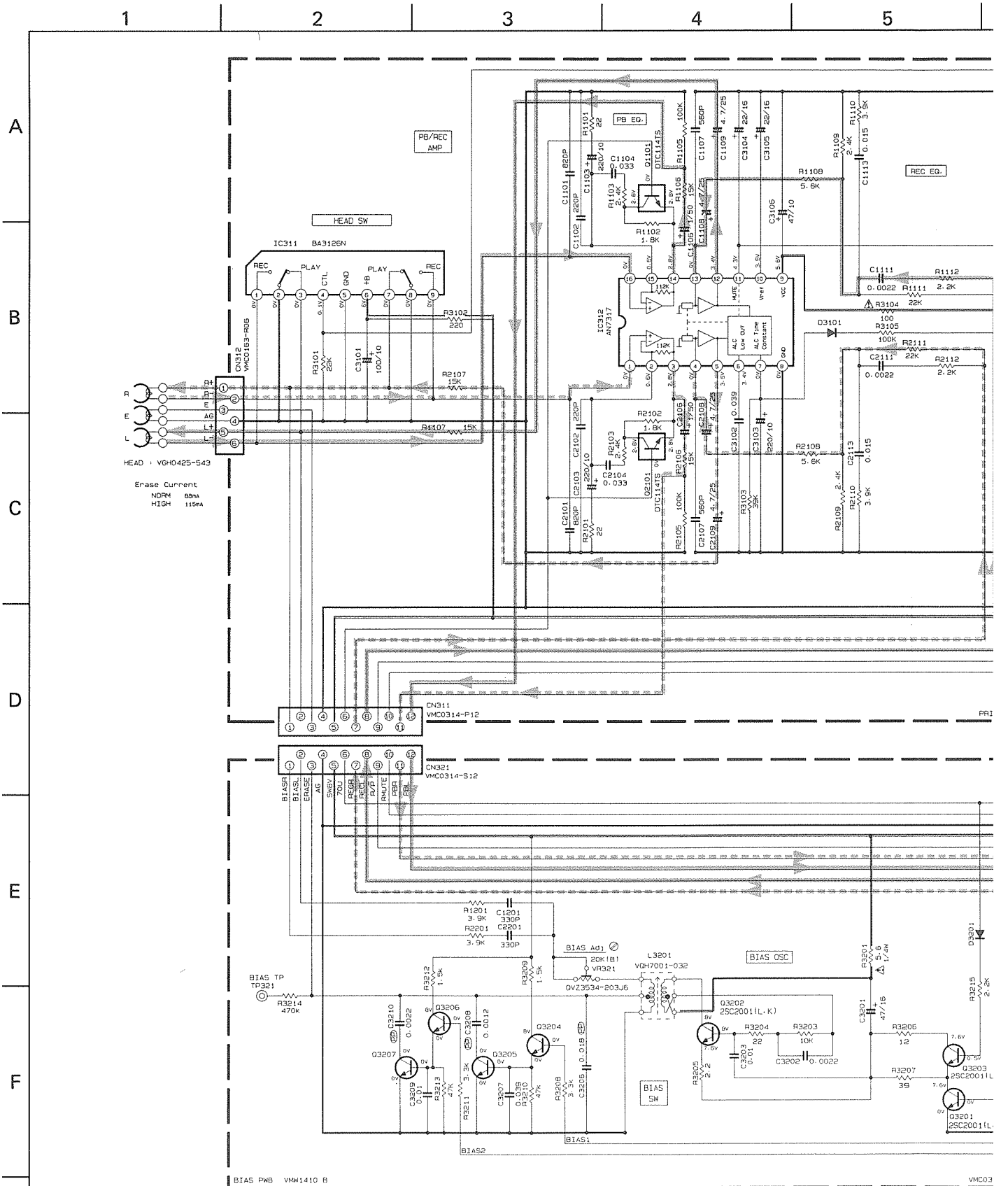
PARTS	Name
	DTC124ES
	DTA124TS

To F-8 on page 54

To G-8 on page 52 (Fig 8-2)

+B Line

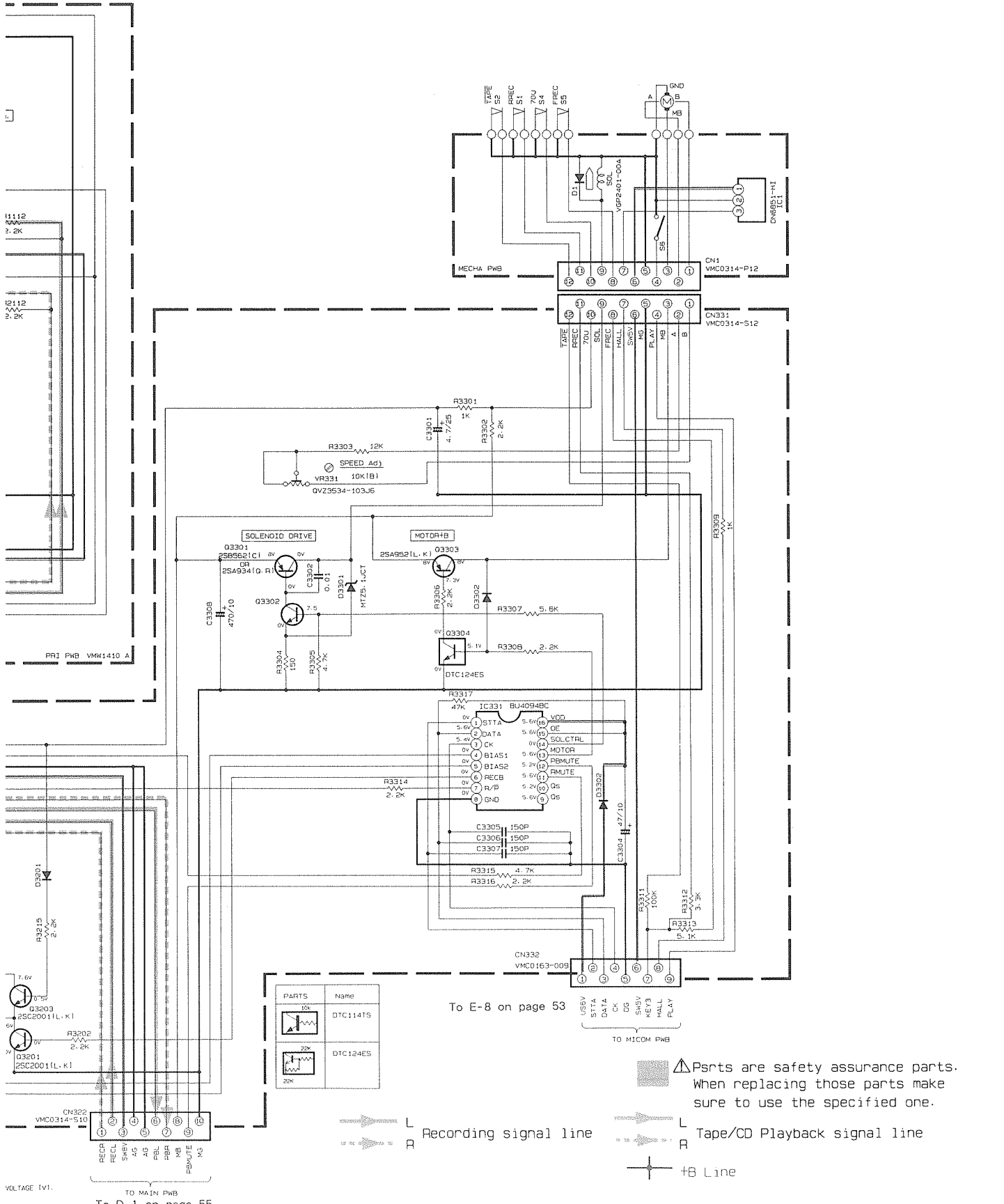
Head amplifier/bias circuit



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION : TAPE MODE MECHA PB

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W ±5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN nF(pF).  
ALL INDUCTANCE VALUES ARE IN mH(mH).  
ALL ELECTROLYTIC CAPACITORS ARE 35VDC IN THE FORM OF CAPACITANCE (μF) RATED VOLTAGE (V).  
ALL DIODES ARE 1SS254T OR H5C104T.  
ALL TRANSISTORS ARE 2SC2785(E-F) OR 2SC3330(S-T).  
POLYPROPYLENE CAPACITOR



To E-8 on page 53

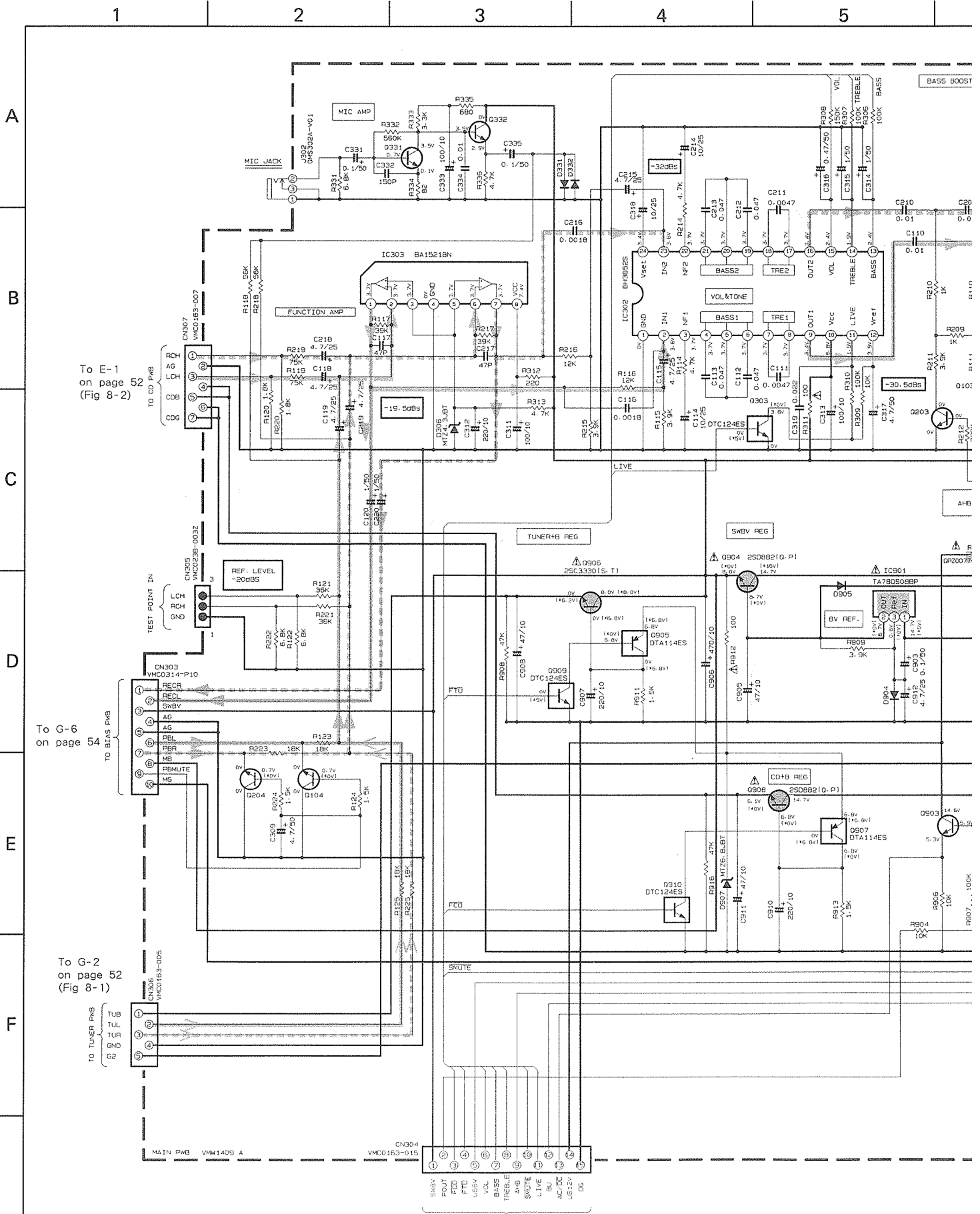
To D-1 on page 55

Fig. 8-4

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Recording signal line  
 Tape/CD Playback signal line  
 +B Line

# Power amplifier circuit



Note : VD45198001AV NEW

TO A-2 on page 53

Fig. 8-5

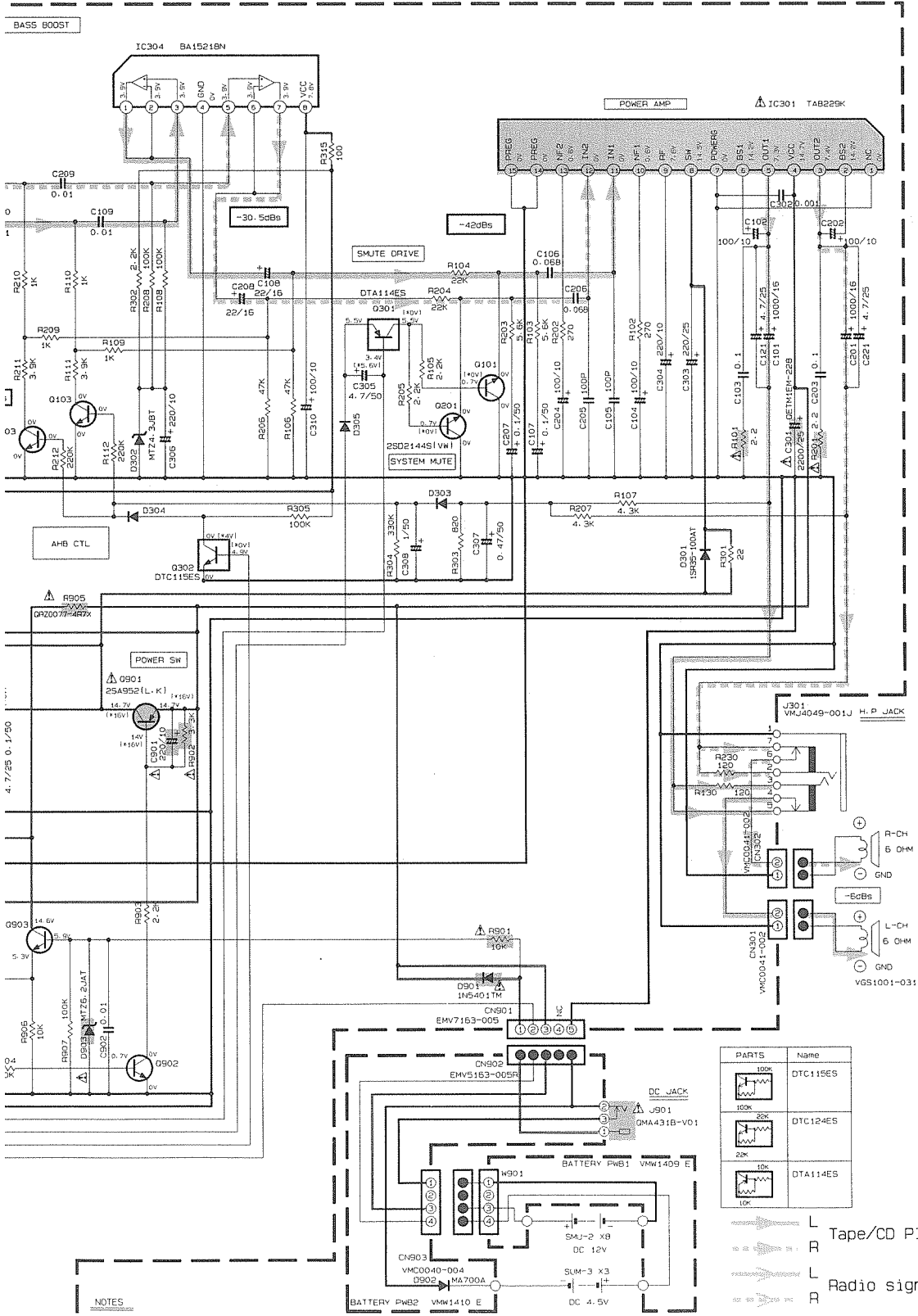
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PARTS	Name
	DTC115ES
	DTC124ES
	DTA114ES

- L Tape/CD Playback signal line
- R Radio signal line
- ⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.
- +B Line
- L Recording signal line

**NOTES**

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP MODE AT AC SUPPLY. ( ) IS INVERT MODE VOL + IS SOUND MODE +FLAT MB+ON
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/4W 5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MILFIA CAPACITOR. ALL CAPACITANCE VALUES ARE IN pF(pf). ALL INDUCTANCE VALUES ARE IN mH(mH). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V). ALL DIODES ARE 1SS24AT OR HSB104TU. ALL NPN TRANSISTORS ARE 2SC2785(E,F) OR 2SC3330(S, T).

9 Location of p. c. board and parts list ■ Main board

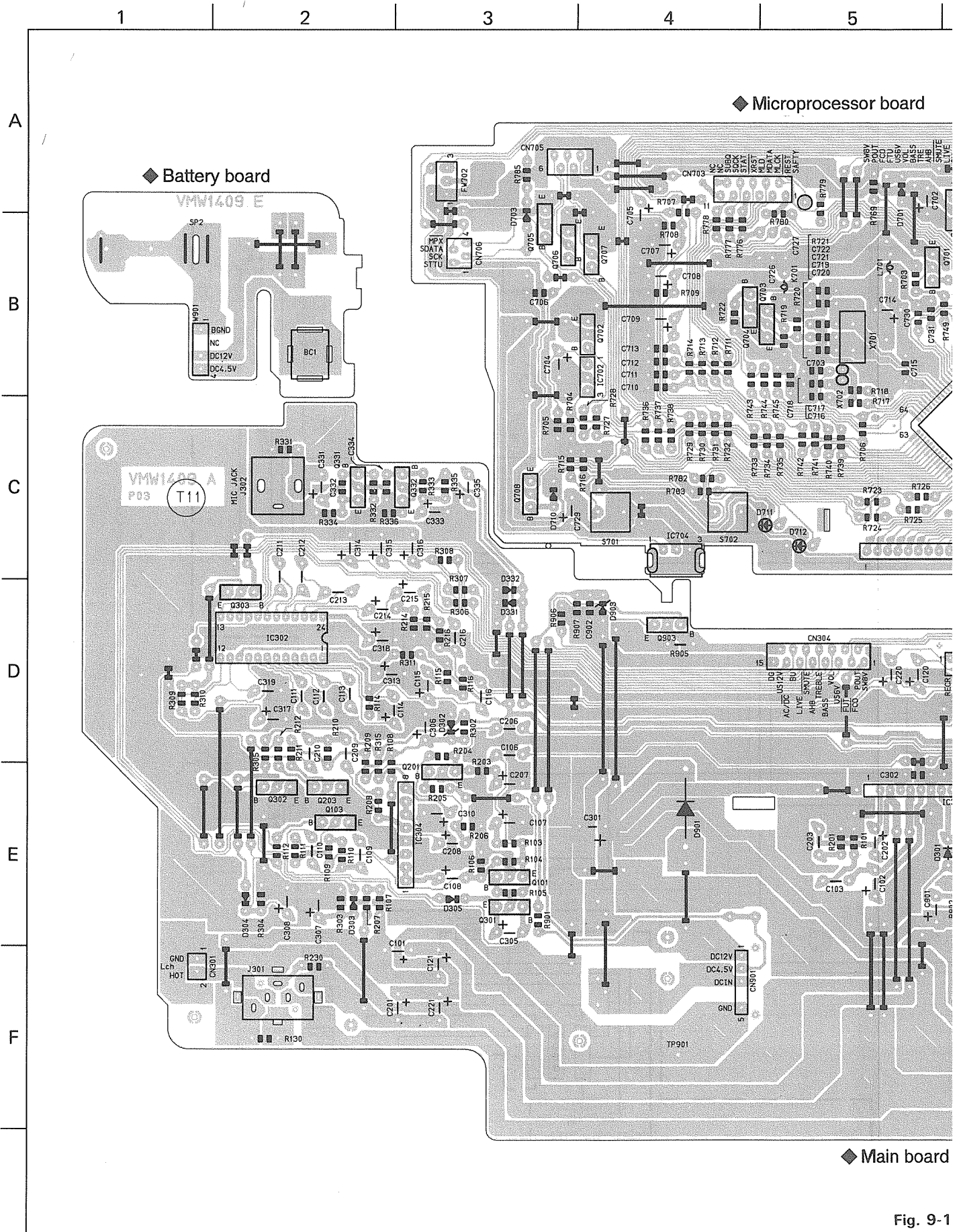
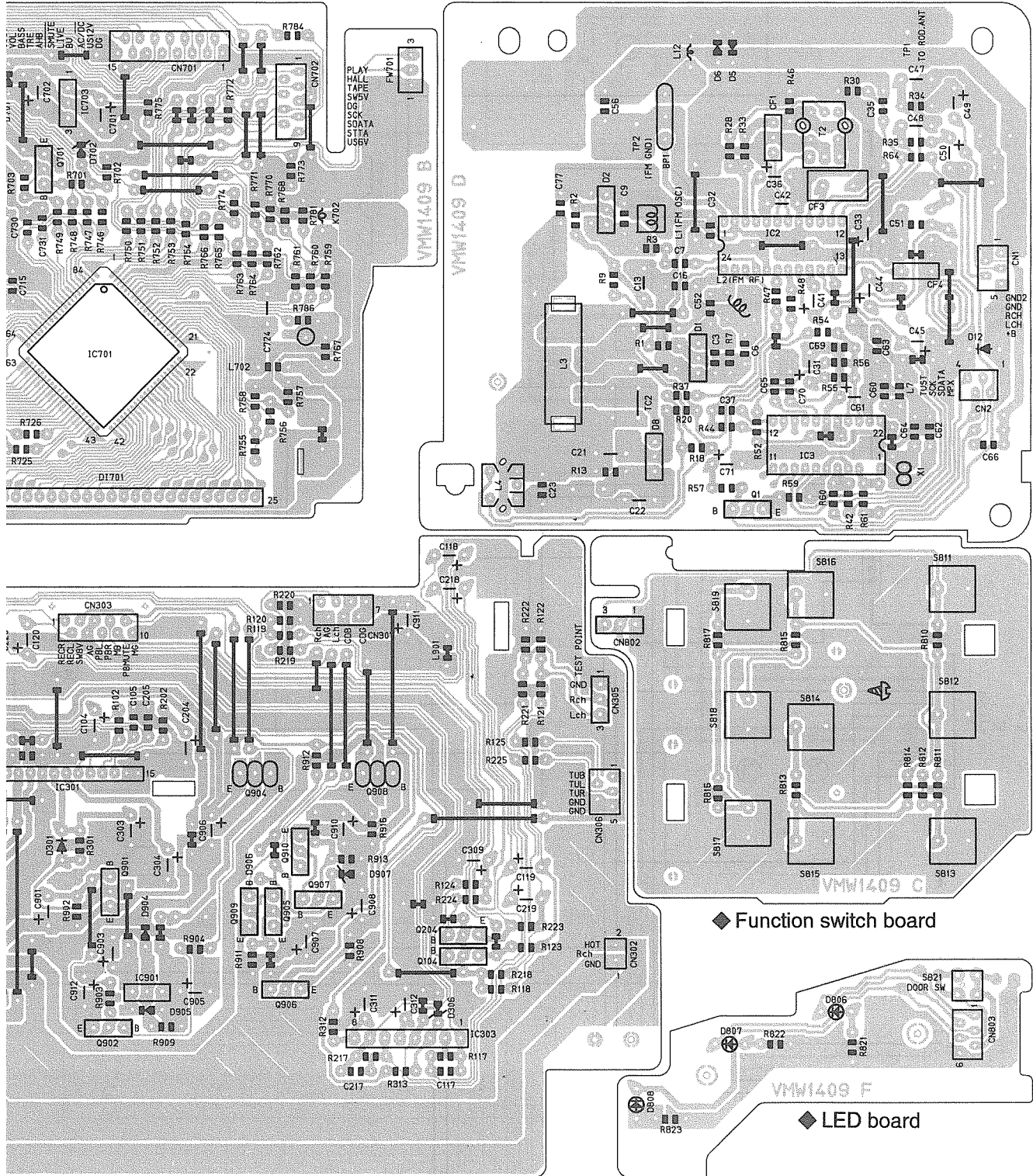


Fig. 9-1

ard



board

fig. 9-1





BLOCK NO. 01111111

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
BC 1	VH8062-001	BATTERY CONTACT		
BP	V8P4M3B-005	B.PASS FILTER	BPF	
C 3	Q65B1HK-58Y	C.CAPACITOR	5.6PF 10% 50V	
C 6	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C 7	QCS11HJ-200	C.CAPACITOR	20PF 5% 50V	
C 9	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
C 13	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
C 16	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C 21	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
C 22	QFG32A1-431Z	PP CAPACITOR	430PF 5% 100V	
C 23	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V	
C 31	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 32	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C 33	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 35	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C 36	QET41HM-475	E.CAPACITOR	=R19	
C 37	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 41	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
C 42	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
C 44	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 45	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C 47	QCC31EM-153ZV	C.CAPACITOR	.015MF 20% 25V	
C 48	QCC31EM-153ZV	C.CAPACITOR	.015MF 20% 25V	
C 49	QETC1HM-104Z	E.CAPACITOR	.10MF 20% 50V	
C 50	QETC1HM-104Z	E.CAPACITOR	.10MF 20% 50V	
C 51	QCCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
C 52	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 56	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 60	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 61	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 62	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V	
C 63	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 64	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V	
C 65	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 66	QCCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 69	QCCBB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
C 70	QETC1HM-225Z	E.CAPACITOR	2.2MF 20% 50V	
C 71	QETC1HM-335ZM	E.CAPACITOR	3.3MF 20% 50V	
C 77	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 101	QETB1CM-108N	E.CAPACITOR	1000MF 20% 16V	
C 102	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 103	QFN41HJ-104	M.CAPACITOR	.10MF 5% 50V	
C 104	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 105	QCCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
C 106	QFV71HJ-683ZM	FILM CAPACITOR	AZM ONLY	
C 107	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
C 108	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C 109	QFV41HJ-104ZM	FILM CAPACITOR	AZM ONLY	
C 110	QFV41HJ-104ZM	FILM CAPACITOR	AZM ONLY	
C 111	QFN41HJ-472	M.CAPACITOR	4700PF 5% 50V	
C 112	QFN41HJ-473	M.CAPACITOR	.047MF 5% 50V	
C 113	QFN41HJ-473	M.CAPACITOR	.047MF 5% 50V	
C 114	QEK41EM-106	E.CAPACITOR	10MF 20% 25V	
C 115	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 116	QFN41HJ-182	M.CAPACITOR	1800PF 5% 50V	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 117	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
C 118	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 119	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
C 120	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 121	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 121	QETB1CM-108N	E.CAPACITOR	1000MF 20% 16V	
C 202	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 203	QFN41HJ-104	M.CAPACITOR	.10MF 5% 50V	
C 204	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 205	QCCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
C 206	QFV71HJ-683ZM	FILM CAPACITOR	AZM ONLY	
C 207	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
C 208	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C 209	QFV41HJ-104ZM	FILM CAPACITOR	AZM ONLY	
C 210	QFV41HJ-104ZM	FILM CAPACITOR	AZM ONLY	
C 211	QFN41HJ-472	M.CAPACITOR	4700PF 5% 50V	
C 212	QFN41HJ-473	M.CAPACITOR	.047MF 5% 50V	
C 213	QFN41HJ-473	M.CAPACITOR	.047MF 5% 50V	
C 214	QEK41EM-106	E.CAPACITOR	10MF 20% 25V	
C 215	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 216	QFN41HJ-182	M.CAPACITOR	1800PF 5% 50V	
C 217	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
C 218	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 219	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
C 220	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 221	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
C 301	QETM1EM-228	E.CAPACITOR	2200MF 20% 25V	
C 302	QCCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 303	QET41EM-227	E.CAPACITOR	220MF 20% 25V	
C 304	QET41AM-227	E.CAPACITOR	220MF 20% 10V	
C 305	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	
C 306	QET41AM-227	E.CAPACITOR	220MF 20% 10V	
C 307	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C 308	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 309	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	
C 310	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 311	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 312	QET41AM-227	E.CAPACITOR	220MF 20% 10V	
C 313	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 314	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 315	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 316	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
C 317	QET41HM-475	E.CAPACITOR	4.7MF 20% 50V	
C 318	QET41EM-106	E.CAPACITOR	10MF 20% 25V	
C 319	QFN81HJ-223	M.CAPACITOR	.022MF 5% 50V	
C 331	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
C 332	QCCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 333	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 334	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C 335	QETC1HM-104Z	E.CAPACITOR	.10MF 20% 50V	
C 701	QETC1HM-104Z	E.CAPACITOR	.10MF 20% 50V	
C 702	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
C 703	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C 704	QCVB1CM-103Y	C.CAPACITOR	.010MF 30% 16V	
C 705	QETC1HM-225ZM	E.CAPACITOR	2.2MF 20% 50V	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D 5	1SS133	SI DIODE		
D 6	1SS133	SI DIODE		
D 8	KV1552NT	VARI CAP		
D 12	DSK10C-E	DIODE		
D 301	1SR35-100	SI DIODE		
D 302	MT74-3JB	ZENER DIODE		
D 303	1SS133	SI DIODE		
D 304	1SS133	SI DIODE		
D 305	1SS133	SI DIODE		
D 306	MT74-3JB	ZENER DIODE		
D 331	1SS133	SI DIODE		
D 332	1SS133	SI DIODE		
D 701	1SS133	SI DIODE		
D 702	MTZ5.1JAT-77	ZENER DIODE		
D 703	1SS133	SI DIODE		
D 710	1SS133	SI DIODE		
D 711	SLZ-981C13-T2	LED	STANDBY	
D 712	SLZ-381F09-T6	LED	POWER	
D 806	SLZ-381F09-T6	LED	LCD	
D 807	SLZ-381F09-T6	LED	LCD	
D 808	SLZ-381F09-T6	LED	LCD	
D 901	1N5401TM	SI DIODE		
D 902	RB721Q	DIODE		
D 903	MTZ6.2JAT-77	ZENER DIODE		
D 904	1SS133	SI DIODE		
D 905	1SS133	SI DIODE		
D 907	MTZ6.8JB	ZENER DIODE		
DI701	BU4502AZ	LCD	LCD DISPLAY	
IC 2	TA2008N	IC		
IC 3	LC72136	IC		
IC301	TAB229K	IC	POWER AMP	
IC302	BH3852S	IC	VOL&TONE	
IC303	BA15218N	IC	FUNCTION AMP	
IC304	BA15218N	IC	S.BASS	
IC701	MN171603JBF2	IC	MICOM	
IC702	PST600H-T	IC	RESET IC	
IC703	TA78DS06BP	IC	US6V	
IC704	S9X1790-52	REMOCON SENSOR		
IC901	TA78DS08BP	IC		
J 301	VMJ4049-001J	JACK	FOR IC304	
J 302	QMS302A-V01	JACK	MIC JACK	
J 901	QMA431B-V01	FILM CAPACITOR	DC JACK	
K 701	VQZ0048-009	INDUCTOR		
K 702	VQZ0048-009	INDUCTOR		
L 1	VQF1B20-019	OSC COIL	FM OSC	
L 2	VQC1505-002	RF COIL	FM RF	
L 3	VQB060M-502	BAR ANTENA	MW RF	
L 4	VQM7002-404	OSC COIL (MW)	MW OSC	
L 7	VQP0018-221	INDUCTOR		
L 12	VQ3047-16	INDUCTOR		
L 701	VQP0033-100Z	INDUCTOR		
L 702	VQP0018-4R7	INDUCTOR		
Q 1	DTC144TS	TRANSISTOR		
Q 101	2SD2144S(VW)	TRANSISTOR	S MUTE	
Q 103	2SC3330	TRANSISTOR		

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 706	QCBB1HK-102Y	C. CAPACITOR	100PF 10% 50V	
C 707	QET41CM-106	E. CAPACITOR	10MF 20% 16V	
C 708	QET41CM-106	E. CAPACITOR	10MF 20% 16V	
C 709	QEK41CM-106	E. CAPACITOR	10MF 20% 16V	
C 710	QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V	
C 711	QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V	
C 712	QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V	
C 713	QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V	
C 714	QEK61AM-227ZM	E. CAPACITOR	220MF 20% 10V	
C 715	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
C 716	QCS11HJ-220	C. CAPACITOR	22PF 5% 50V	
C 717	QCS11HJ-220	C. CAPACITOR	22PF 5% 50V	
C 718	QCBB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
C 719	QCS11HJ-240	C. CAPACITOR	24PF 5% 50V	
C 720	QCS11HJ-300	C. CAPACITOR	30PF 5% 50V	
C 721	QCS11HJ-330	C. CAPACITOR	33PF 5% 50V	
C 722	QCS31HJ-270Z	C. CAPACITOR	27PF 5% 50V	
C 724	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
C 729	QET41AM-476	E. CAPACITOR	47MF 20% 10V	
C 730	QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V	
C 731	QCBB1HK-101Y	C. CAPACITOR	100PF 10% 50V	
C 901	QET41AM-227	E. CAPACITOR	220MF 20% 10V	
C 902	QCVB1CN-103Y	E. CAPACITOR	.010MF 30% 16V	
C 903	QETC1HM-104Z	E. CAPACITOR	.10MF 20% 50V	
C 905	QET41AM-476	E. CAPACITOR	47MF 20% 10V	
C 906	QET41AM-477	E. CAPACITOR	470MF 20% 10V	
C 907	QET41AM-227	E. CAPACITOR	220MF 20% 10V	
C 908	QET41AM-476	E. CAPACITOR	47MF 20% 10V	
C 910	QET41AM-227	E. CAPACITOR	220MF 20% 10V	
C 911	QET41AM-476	E. CAPACITOR	47MF 20% 10V	
C 912	QET41EM-475	E. CAPACITOR	4.7MF 20% 25V	
CF 1	VCF2M3B-106	C. FILTER		
CF 3	VCF1Z2Z-117Z	C. FILTER		
CF 4	CMU2-456A05	CERA LOCK		
CN 1	VMC0163-005	CONNECTOR		
CN 2	VMC0163-004	CONNECTOR		
CN301	VMC0041-002	CONNECTOR	SPK OUT LCH	
CN302	VMC0041-002	CONNECTOR	SPK OUT RCH	
CN303	VMC0314-P10	CONNECTOR	MAIN/BIAS	
CN304	VMC0163-015	CONNECTOR	MAIN/MICOM	
CN305	TTL25V-003	CONNECTOR	TEST POINT	
CN306	VMC0163-005	CONNECTOR	MAIN/TUNER	
CN307	VMC0163-007	CONNECTOR	MAIN/CD	
CN701	VMC0163-015	CONNECTOR	MICOM/MAIN	
CN702	VMC0163-009	CONNECTOR	MICOM/BIAS	
CN703	VMC0163-011	CONNECTOR	MICOM/CD	
CN705	VMC0163-006	CONNECTOR	MICOM/CD LED	
CN706	VMC0163-R04	CONNECTOR	MICOM/TUNER	
CN802	EMV7122-103Z	SOCKET	KEY2/MICOM	
CN803	VMC0163-R06	CONNECTOR	CD LED/MICOM	
CN901	EMV7163-005	CONNECTOR	MAIN/BAT2	
CN902	EMV5163-005R	CONNECTOR	BAT2/MAIN	
CN903	VMC0040-004	CONNECTOR	BAT2/BAT1	
D 1	SVC203SPA-AB-AL	VARI CAP		
D 2	SVC203SPA-AB-AL	VARI CAP		

BLOCK NO. 01111111

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 101	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 102	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
R 103	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R 104	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 105	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 106	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 107	QRD161J-432	CARBON RESISTOR	4.3K 5% 1/6W	
R 108	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 109	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 110	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 111	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R 112	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 114	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 115	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R 116	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R 117	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 118	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R 119	QRD161J-753	CARBON RESISTOR	75K 5% 1/6W	
R 120	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 121	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
R 122	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 123	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R 124	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R 125	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R 130	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
R 201	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R 202	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
R 203	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R 204	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 205	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 206	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 207	QRD161J-432	CARBON RESISTOR	4.3K 5% 1/6W	
R 208	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 209	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 210	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 211	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R 212	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 214	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 215	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R 216	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R 217	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 218	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R 219	QRD161J-753	CARBON RESISTOR	75K 5% 1/6W	
R 220	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 221	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
R 222	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 223	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R 224	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R 225	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R 230	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
R 301	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
R 302	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 303	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
R 304	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
R 305	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	

BLOCK NO. 01111111

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q 104	2SC3330	TRANSISTOR	PB MUTE	
Q 201	2SD2144S(VW)	TRANSISTOR	S MUTE	
Q 203	2SC3330	TRANSISTOR		
Q 204	2SC3330	TRANSISTOR	PB MUTE	
Q 301	DTA114ES	TRANSISTOR		
Q 302	DTA115ES	TRANSISTOR		
Q 303	DTA124ES	TRANSISTOR		
Q 331	2SC3330	TRANSISTOR		
Q 332	2SC3330	TRANSISTOR		
Q 701	2SC3330	TRANSISTOR		
Q 702	2SA1175	TRANSISTOR		
Q 703	2SC2668(O)	TRANSISTOR		
Q 704	2SC2668(O)	TRANSISTOR		
Q 705	DTA124ES	TRANSISTOR		
Q 706	DTA124ES	TRANSISTOR		
Q 707	DTA124ES	TRANSISTOR		
Q 708	DTA124TSTP	TRANSISTOR TAPE		
Q 901	2SA952(L-K)	TRANSISTOR		
Q 902	2SC3330	TRANSISTOR		
Q 903	2SC3330	TRANSISTOR		
Q 904	2SD882(P-Q)	TRANSISTOR	SW8V REG	
Q 905	DTA114ES	TRANSISTOR		
Q 906	2SC3330	TRANSISTOR	TUB	
Q 907	DTA114ES	TRANSISTOR		
Q 908	2SD882(P-Q)	TRANSISTOR	CDB	
Q 909	DTA124ES	TRANSISTOR		
Q 910	DTA124ES	TRANSISTOR		
R 1	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 2	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 3	QRD161J-477	CARBON RESISTOR	4.7 5% 1/6W	
R 7	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 9	QRD161J-104	CARBON RESISTOR	1.0K 5% 1/6W	
R 13	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 18	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 20	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 28	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R 30	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 33	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 34	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 35	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 37	QRD161J-560	CARBON RESISTOR	56 5% 1/6W	
R 42	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 44	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 46	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 47	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
R 48	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 52	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 54	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 55	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 56	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 57	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 59	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 60	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 61	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 64	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 306	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 307	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 308	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R 309	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 310	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 311	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 312	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
R 313	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 315	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 331	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 332	QRD161J-564	CARBON RESISTOR	560K 5% 1/6W	
R 333	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 334	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
R 335	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R 336	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 701	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
R 702	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R 703	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 704	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 705	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 706	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 707	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R 708	QRD161J-243	CARBON RESISTOR	24K 5% 1/6W	
R 709	QRD161J-243	CARBON RESISTOR	24K 5% 1/6W	
R 711	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 712	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 713	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 714	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 715	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 716	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 717	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 718	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 719	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R 720	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R 721	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R 722	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R 723	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 724	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 725	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 726	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
R 727	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 728	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R 729	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 730	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 731	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 732	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 733	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 734	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 735	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R 736	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 737	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 738	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 739	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 740	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 741	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 742	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 743	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 744	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 745	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 746	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 747	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 748	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 749	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 750	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 751	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 752	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 753	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 754	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 755	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 756	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 757	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 758	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R 759	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 760	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 761	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 762	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 763	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 764	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 765	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 766	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 767	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R 768	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 769	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R 770	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 771	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 772	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 773	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 774	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 775	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 776	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 777	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 778	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 779	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 780	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R 781	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
R 782	QRD161J-331	CARBON RESISTOR	33K 5% 1/6W	
R 783	QRD161J-331	CARBON RESISTOR	33K 5% 1/6W	
R 784	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 785	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 786	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 810	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 811	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 812	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R 813	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R 814	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 815	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R 816	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R 817	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R 821	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
R 822	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	



REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 823	GRD161J-561	CARBON RESISTOR	560 5% 1/6W	
R 901	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 902	GRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 903	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 904	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 905	GRZ0077-4R7X	FUSE RESISTOR	4.7 1/0W	
R 906	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 907	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 908	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 909	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R 911	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R 912	GRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 913	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R 916	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
S 701	GSQ4H11-V12Z	TACT SWITCH	TIMER	
S 702	GSQ4H11-V12Z	TACT SWITCH	CLOCK	
S 811	GSQ4H11-V12Z	TACT SWITCH	CD	
S 812	GSQ4H11-V12Z	TACT SWITCH	TAPE	
S 813	GSQ4H11-V12Z	TACT SWITCH	RADIO	
S 814	GSQ4H11-V12Z	TACT SWITCH	STOP	
S 815	GSQ4H11-V12Z	TACT SWITCH	FF	
S 816	GSQ4H11-V12Z	TACT SWITCH	REW	
S 817	GSQ4H11-V12Z	TACT SWITCH	REV	
S 818	GSQ4H11-V12Z	TACT SWITCH	REC	
S 819	GSQ4H11-V12Z	TACT SWITCH	ONE TOUCH REC	
S 821	QSP2K21-V01	PUSH SWITCH	CD OPEN/CLOSE	
T 2	VQT7A21-112	IFT		
TC 2	QAT3114-200Z	T CAPACITOR	MW RF	
TP 1	VMZ0015-002	POST PIN	TO ROD ANT	
TP 2	VMZ0015-002	POST PIN	GND	
TP901	VMZ0015-002	POST PIN		
X 701	VCX5044-001	CRYSTAL		
X 701	M2Z4.19	CERA LOCK		
X 702	VCX5000-002	CRYSTAL		

A

B

C

D

E

F

A

B

C

D

E

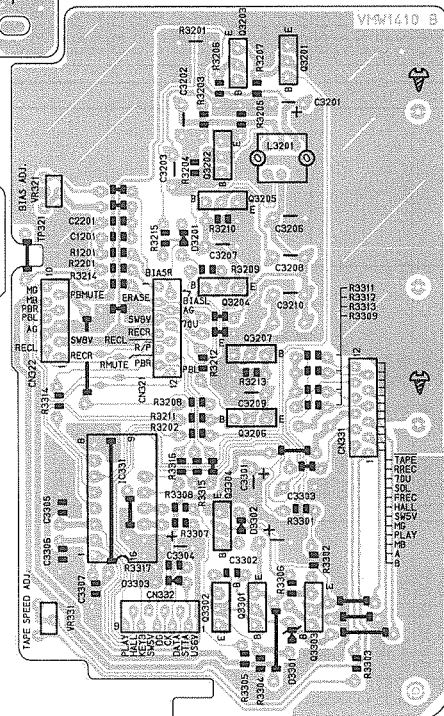
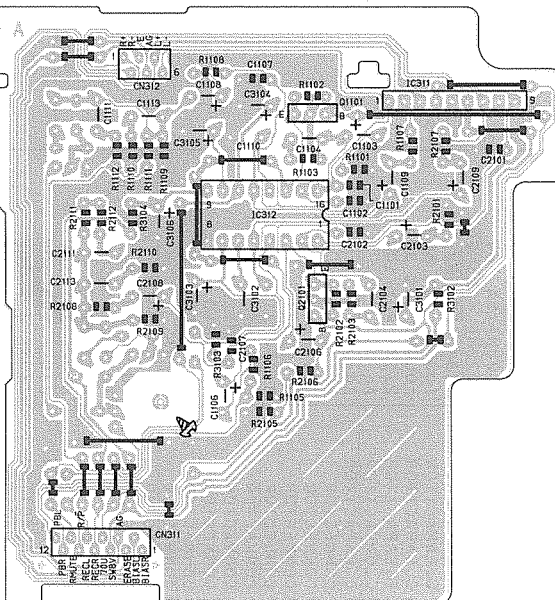
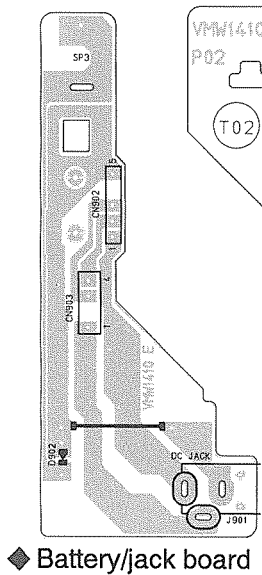
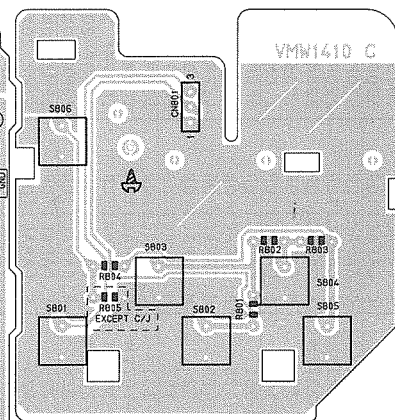
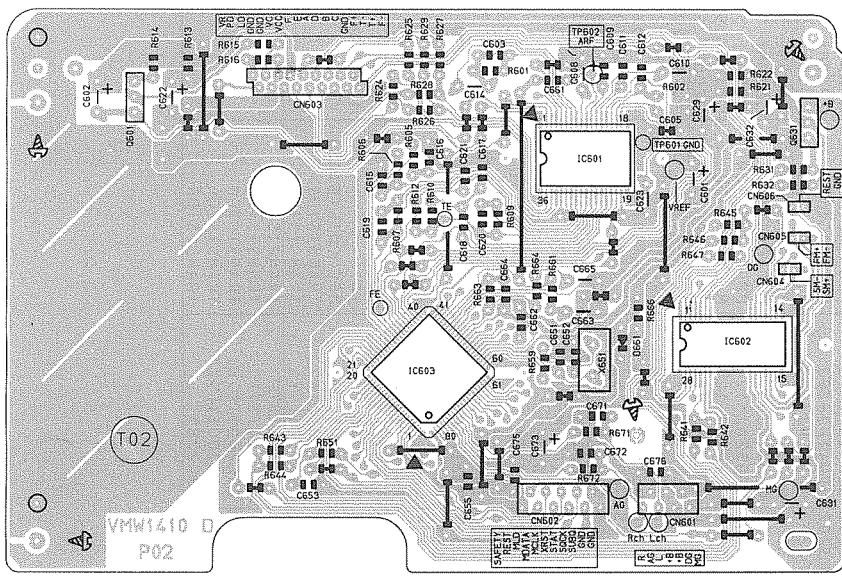
F

ard



◆ CD amplifier board

◆ Power switch/volume board



◆ Battery/jack board

◆ Preamplifier board

◆ Bias/mechanism control board (Recording board)

Fig. 9-2

● Sab board parts list

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 601	QEK61AM-107ZM	E. CAPACITOR	100MF 20% 10V	
C 602	QEK41CM-106	E. CAPACITOR	10MF 20% 16V	
C 603	QCSB1HK-3R3Y	C. CAPACITOR	3.3PF 10% 50V	
C 605	QCSB1HK-331Y	C. CAPACITOR	330PF 10% 50V	
C 608	QEK41HM-105	E. CAPACITOR	1.0MF 20% 50V	
C 609	QCSB1HK-101Y	C. CAPACITOR	100PF 10% 50V	
C 610	QFN41HJ-273	M. CAPA. I. M	.027MF 5% 50V	
C 611	QCXB1CM-222Y	C. CAPACITOR	2200PF 20% 16V	
C 612	QCUB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
C 614	QFN41HJ-104	M. CAPACITOR	.10MF 5% 50V	
C 615	QCFB1E7-223Y	C. CAPACITOR	.022MF +80:-20%	
C 616	QCFB1E7-223Y	C. CAPACITOR	.022MF +80:-20%	
C 617	QCFB1E7-223Y	C. CAPACITOR	.022MF +80:-20%	
C 618	QCXB1CM-222Y	C. CAPACITOR	2200PF 20% 16V	
C 619	QCSB1HK-271Y	C. CAPACITOR	270PF 10% 50V	
C 620	QCSB1HK-181Y	C. CAPACITOR	180PF 10% 50V	
C 621	QCSB1HK-821Y	C. CAPACITOR	820PF 10% 50V	
C 622	QEK41CM-476	E. CAPACITOR	47MF 20% 16V	
C 623	QFN41HJ-104	M. CAPACITOR	.10MF 5% 50V	
C 629	QEK61AM-107ZM	E. CAPACITOR	100MF 20% 10V	
C 631	QEK61AM-227ZM	E. CAPACITOR	220MF 20% 10V	
C 632	QEK61AM-107ZM	E. CAPACITOR	100MF 20% 10V	
C 651	QCS11HJ-220	C. CAPACITOR	22PF 5% 50V	
C 652	QCS11HJ-220	C. CAPACITOR	22PF 5% 50V	
C 653	QCFB1E7-223Y	C. CAPACITOR	.022MF +80:-20%	
C 655	QCFB1E7-223Y	C. CAPACITOR	.022MF +80:-20%	
C 661	QCSB1HK-471Y	C. CAPACITOR	470PF 10% 50V	
C 662	QCFB1E7-223Y	C. CAPACITOR	.022MF +80:-20%	
C 663	QFN81HJ-103	M. CAPACITOR	.022MF 5% 50V	
C 664	QCFB1E7-223Y	C. CAPACITOR	.022MF +80:-20%	
C 665	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V	
C 671	QCSB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C 672	QCSB1HK-102Y	C. CAPACITOR	1000PF 10% 50V	
C 673	QER51AM-227	E. CAPACITOR	220MF 20% 10V	
C 675	QCSB1HK-102Y	C. CAPACITOR	AG-DG	
C 676	QCXB1CM-332Y	C. CAPACITOR	AG-DG	
CN311	VMC0314-P12	CONNECTOR	PRI/BIAS	
CN312	VMC0163-R06	CONNECTOR	PRI/HEAD	
CN321	VMC0314-S12	CONNECTOR	BIAS/PRI	
CN322	VMC0314-S10	CONNECTOR	BIAS/MAIN	
CN331	VMC0314-S12	CONNECTOR	BIAS/MECHA	
CN332	VMC0163-009	CONNECTOR	BIAS/MICOM	
CN601	VMC0163-R07	CONNECTOR	TO AUDIO	
CN602	VMC0163-R11	CONNECTOR	TO MICON	
CN603	VMC0248-018	CONNECTOR	TO RF	
CN604	VMC0199-902V	CONNECTOR	TO SP MOTOR	
CN605	VMC0199-202V	CONNECTOR	TO FD MOTOR	
CN606	VMC0199-602V	CONNECTOR	TO REST SW	
CN801	EMV7122-105Z	SOCKET	KEY1/MICOM	
C1101	QCSB1HK-821Y	C. CAPACITOR	820PF 10% 50V	
C1102	QCSB1HK-221Y	C. CAPACITOR	220PF 10% 50V	
C1103	QEK61AM-227ZM	E. CAPACITOR	220MF 20% 10V	
C1104	QFN41HJ-333	M. CAPACITOR	.033MF 5% 50V	
C1106	QEK41HM-105	E. CAPACITOR	1.0MF 20% 50V	
C1107	QCSB1HK-561Y	C. CAPACITOR	560PF 10% 50V	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C1108	QEK41EM-475	E. CAPACITOR	4.7MF 20% 25V	
C1109	QEK41EM-475	E. CAPACITOR	4.7MF 20% 25V	
C1111	QFN41HJ-222	M. CAPACITOR	.015MF 5% 50V	
C1113	QFN41HJ-153	M. CAPACITOR	.015MF 5% 50V	
C1201	QCSB1HK-331Y	C. CAPACITOR	330PF 10% 50V	
C2101	QCSB1HK-821Y	C. CAPACITOR	820PF 10% 50V	
C2102	QCSB1HK-221Y	C. CAPACITOR	220PF 10% 50V	
C2103	QEK61AM-227ZM	E. CAPACITOR	220MF 20% 10V	
C2104	QFN41HJ-333	M. CAPACITOR	.033MF 5% 50V	
C2106	QEK41HM-105	E. CAPACITOR	1.0MF 20% 50V	
C2107	QCSB1HK-561Y	C. CAPACITOR	560PF 10% 50V	
C2108	QEK41EM-475	E. CAPACITOR	4.7MF 20% 25V	
C2109	QEK41EM-475	E. CAPACITOR	4.7MF 20% 25V	
C2111	QFN41HJ-222	M. CAPACITOR	2200PF 5% 50V	
C2113	QFN41HJ-153	M. CAPACITOR	.015MF 5% 50V	
C2201	QCSB1HK-331Y	C. CAPACITOR	330PF 10% 50V	
C3101	QEK61AM-107ZM	E. CAPACITOR	100MF 20% 10V	
C3102	QFN31HJ-393ZM	M. CAPACITOR	.039MF 5% 50V	
C3103	QEK61AM-227ZM	E. CAPACITOR	220MF 20% 10V	
C3104	QEK41CM-226	E. CAPACITOR	22MF 20% 16V	
C3105	QEK41CM-226	E. CAPACITOR	22MF 20% 16V	
C3106	QEK41AM-476	E. CAPACITOR	47MF 20% 10V	
C3201	QEK41CM-476	E. CAPACITOR	47MF 20% 16V	
C3202	QFN41HJ-222	M. CAPACITOR	2200PF 5% 50V	
C3203	QFN81HJ-103	M. CAPACITOR	.010MF 5% 50V	
C3206	QFG32AJ-183ZM	PP CAPACITOR	.018MF 5% 100V	
C3207	QFN31HJ-393ZM	M. CAPACITOR	.039MF 5% 50V	
C3208	QFG32AJ-122ZM	PP CAPACITOR	1200PF 5% 100V	
C3209	QFN81HJ-103	M. CAPACITOR	.010MF 5% 50V	
C3210	QFG32AJ-222ZM	PP CAPACITOR	2200PF 5% 100V	
C3301	QEK41EM-475	E. CAPACITOR	4.7MF 20% 25V	
C3302	QCVB1CM-103Y	C. CAPACITOR	.010MF 20% 16V	
C3304	QEK41AM-476	E. CAPACITOR	47MF 20% 10V	
C3305	QCSB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
C3306	QCSB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
C3307	QCSB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
C3308	QEK41AM-477	E. CAPACITOR	470MF 20% 10V	
D. 661	1SS133	SI DIODE		
D3201	1SS133	SI DIODE		
D3301	MTZ.1JC	ZENER DIODE		
D3303	1SS133	SI DIODE		
IC311	BA3126N	IC	HEAD SW	
IC312	AN7317	IC	PB&REC	
IC331	BU4094BC	IC		
IC601	AN8806SB	IC	RF AMP	
IC602	BA6897FP	IC	DRIVER	
IC603	MN35510	IC	1CHIP PROCESSOR	
L3201	VQH7001-032	OSC COIL(BIAS)		
Q. 601	2SA952(L,K)	TRANSISTOR		
Q. 631	2SA952(L,K)	TRANSISTOR		
Q1101	DTC114TSTP	TRANSISTOR		
Q2101	DTC114TSTP	TRANSISTOR		
Q3201	2SC2001(L,K)	TRANSISTOR		
Q3202	2SC2001(L,K)	TRANSISTOR		
Q3203	2SC2785	TRANSISTOR		



BLOCK NO. 02111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R1108	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R1109	QRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W	
R1110	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R1111	QRD161J-223	CARBON RESISTOR	2.2K 5% 1/6W	
R1112	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R1201	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R2101	QRD161J-220	CARBON RESISTOR	2.2K 5% 1/6W	
R2102	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R2103	QRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W	
R2105	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R2106	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2107	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2108	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R2109	QRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W	
R2110	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R2111	QRD161J-223	CARBON RESISTOR	2.2K 5% 1/6W	
R2112	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R2201	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R3102	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
R3103	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R3104	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3201	QRD14CJ-5R6SX	UNF.C.RESISTOR	5.6 5% 1/4W	
R3202	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R3203	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R3204	QRD161J-470	CARBON RESISTOR	4.7 5% 1/6W	
R3205	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R3206	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
R3207	QRD161J-390	CARBON RESISTOR	39 5% 1/6W	
R3208	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R3209	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R3210	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
R3211	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R3212	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R3213	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
R3214	QRD161J-474	CARBON RESISTOR	4.70K 5% 1/6W	
R3215	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R3301	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R3302	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R3303	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R3304	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R3305	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3306	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R3307	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R3308	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R3309	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R3311	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R3312	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R3313	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R3314	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R3315	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3316	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R3317	QRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W	
S 801	QSQA411-V12Z	TACT SWITCH	POWER	
S 802	QSQA411-V12Z	TACT SWITCH	VOL-	
S 803	QSQA411-V12Z	TACT SWITCH	VOL+	

BLOCK NO. 02111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q3204	2SC3330	TRANSISTOR		
Q3205	2SC3330	TRANSISTOR		
Q3206	2SC3330	TRANSISTOR		
Q3207	2SC3330	TRANSISTOR		
Q3301	2SB562(C)	TRANSISTOR	SOLENOID DRIVE	
Q3302	2SC3330	TRANSISTOR		
Q3303	2SA952(L,K)	TRANSISTOR	MOTER+B	
Q3304	DT124ES	TRANSISTOR		
R 601	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R 602	QRD161J-225	CARBON RESISTOR	2.2M 5% 1/6W	
R 605	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R 606	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 609	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 610	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W	
R 621	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 622	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 624	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 625	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 626	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 627	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 628	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 629	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 631	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 641	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 642	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R 643	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R 644	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 645	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
R 646	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 647	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 659	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R 666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
R 672	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R 801	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 802	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 803	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R 804	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R1101	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
R1102	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R1103	QRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W	
R1105	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R1106	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1107	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	



BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
S 804	QS04H11-V12Z	TACT SWITCH	SOUND	
S 805	QS04H11-V12Z	TACT SWITCH	BASS	
S 806	QS04H11-V12Z	TACT SWITCH	ONE TOUCH TUNE	
VR321	QVZ3534-203J6	SEMI V RESISTOR	BIAS ADJ	
VR331	QVZ3534-103J6	V RESISTOR	TAPE SPEED ADJ	
X 651	CSA16.93MXZ040T	CERA LOCK	16.9344MHZ	

■ Cassette mechanism board

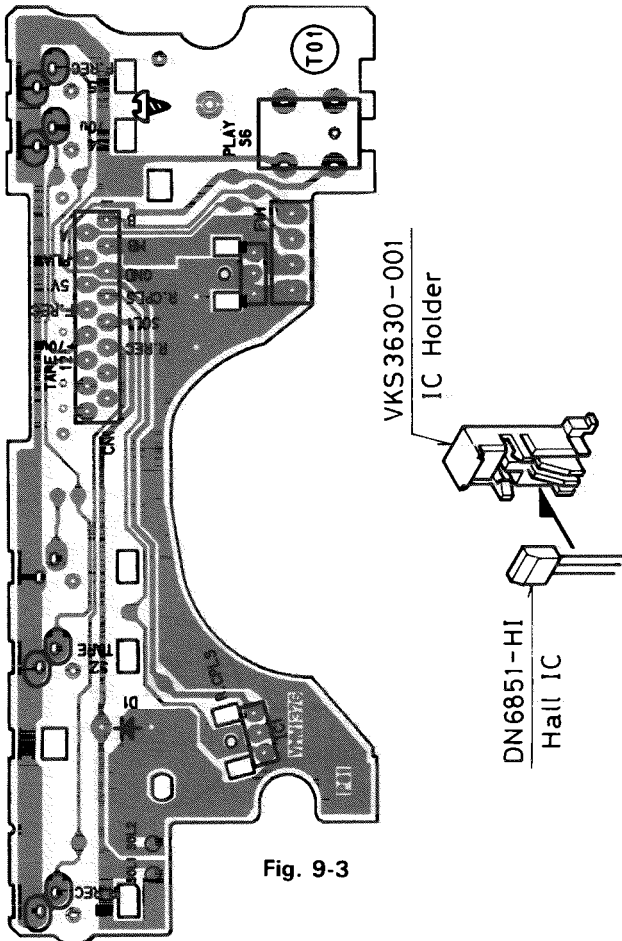


Fig. 9-3

● Cassette mechanism board parts list

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN 1	VMC0314-P12	CONNECTOR		
D 1	1SR139-400	SI DIODE		
FW 1	VMSC04-11A13K	TM FLAT WIRE		
IC H	VKS3630-001MM	IC HOLDER		
IC I	DN6851-HI	HALL IC		
S 1	MXS00220MVLO	CASSETTE SWITCH		
S 2	MXS00220MVLO	CASSETTE SWITCH		
S 4	MXS00220MVLO	CASSETTE SWITCH		
S 5	MXS00220MVLO	CASSETTE SWITCH		
S 6	QSEC001-E03	SWITCH		

# 10 Exploded view of mechanism assembly

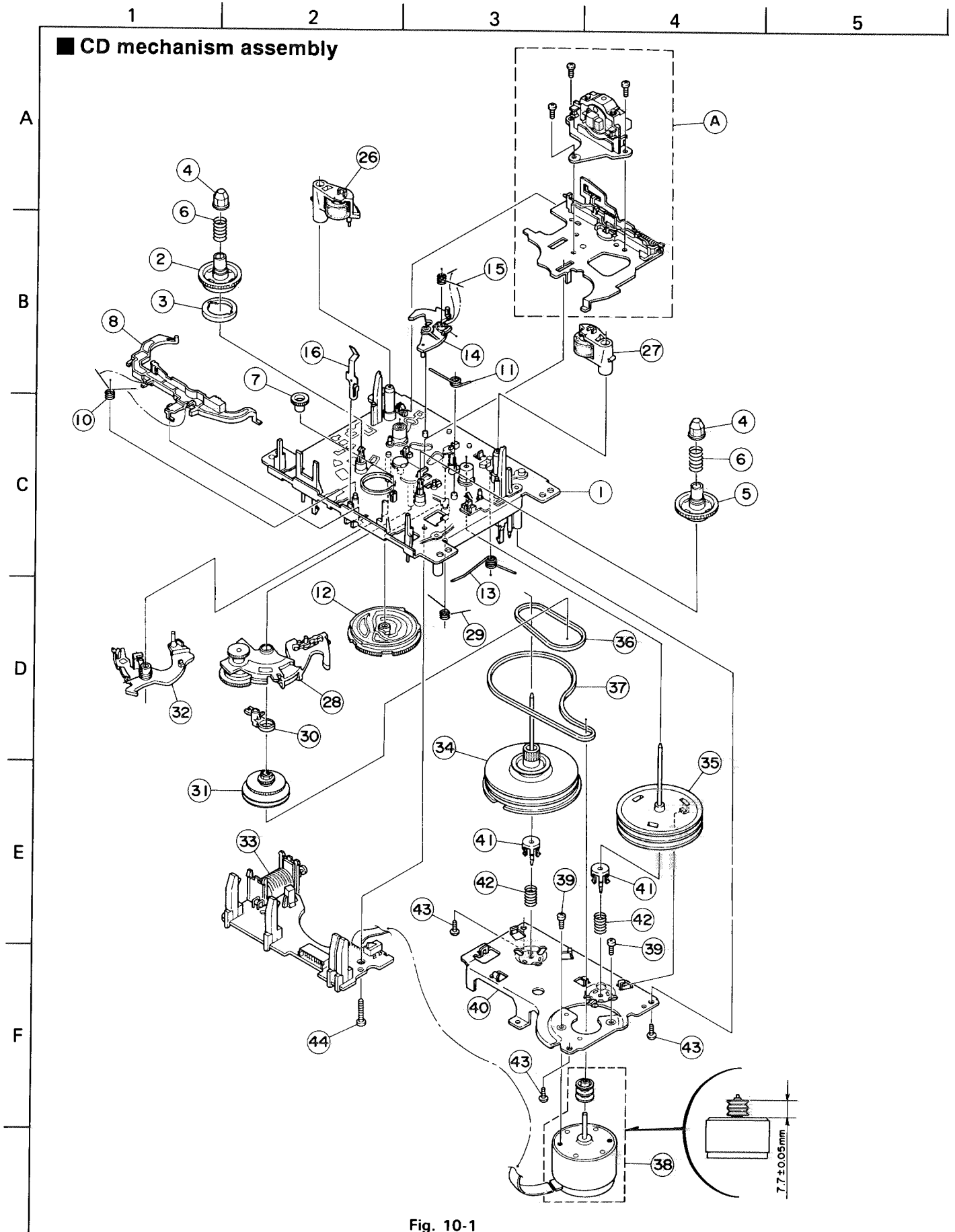


Fig. 10-1





■ CD mechanism assembly

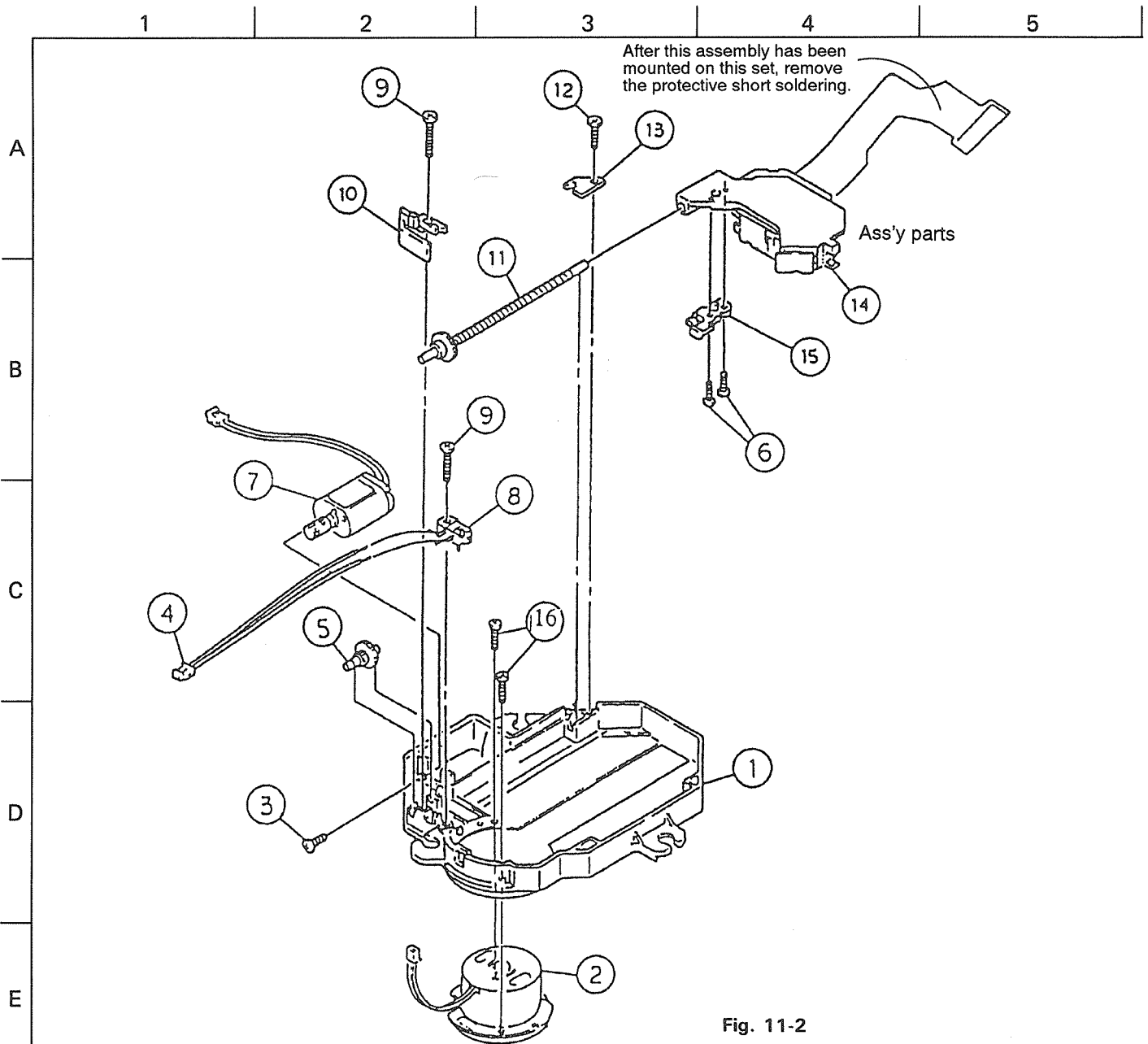


Fig. 11-2

● CD mechanism parts list

BLOCK NO. M3MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	2-625-415-05	CHASSIS		1		
	2	X-2625-485-1SA	MOTOR ASS'Y		1		
	3	3-732-988-01	SCREW		1		
	4	1-948-418-21	HARNESS		1		
	5	2-625-410-0)	GEAR(B)		1		
	6	7-627-852-17	SCREW	FOR RACK	2		
	7	X-2625-171-2	FEED MOTOR ASSY		1		
	8	1-570-771-11	SWITCH		1		
	9	2-625-623-11	SCREW	FOR SWITCH	2		
	10	2-625-412-02	S SCREW STOPPR		1		
	11	X-2625-483-1	SLIDE SCREW		1		
	12	2-625-623-01	SCREW	SLED SCREW	1		
	13	2-625-411-01	TRTAINER SHAFT		1		
	14	8-848-289-31SA	PICUP ASS'Y		1		
	15	2-625-414-02	RACK		1		
	16	7-627-852-18	SCREW	FOR MOTOR	2		

# 11 Exploded view of enclosure assembly

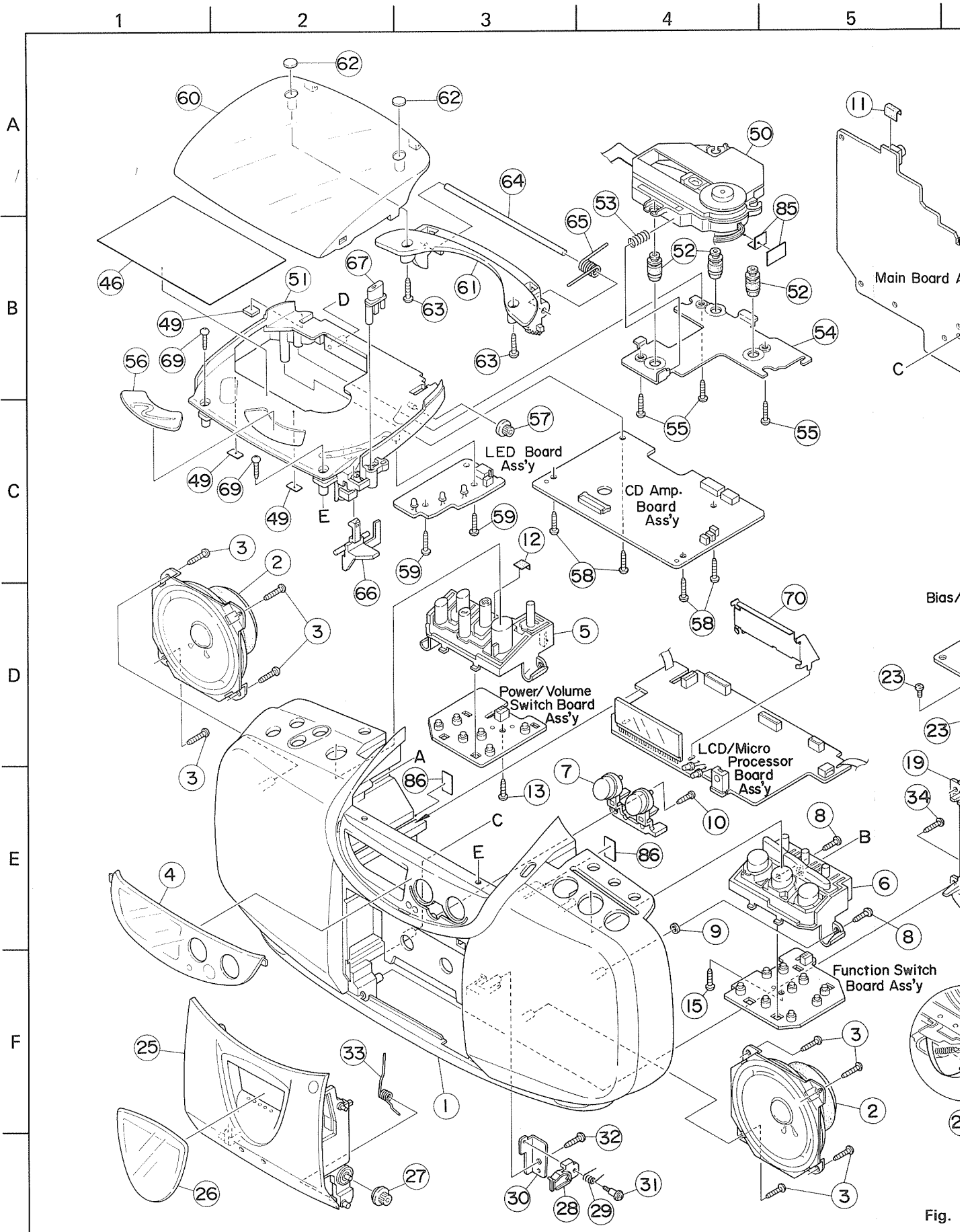


Fig.



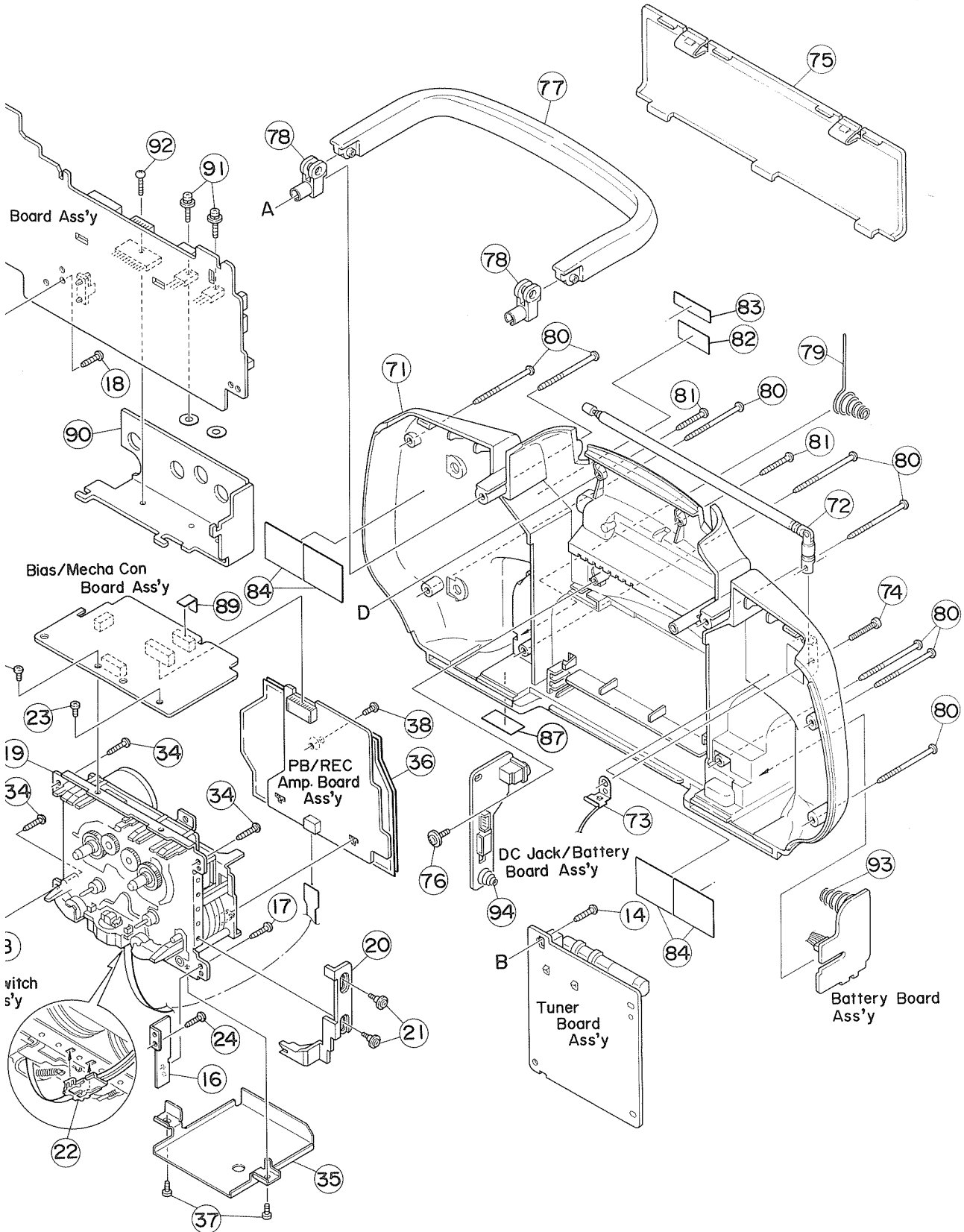
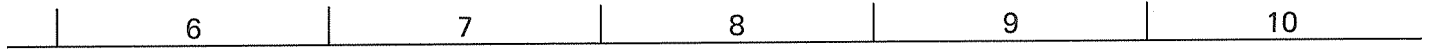


Fig. 11-1



## ● Enclosure parts list

BLOCK NO. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VJG1389-00CUL	F.CABINET ASS'Y		1		GR
		VJG1389-00DUL	F.CABINET ASS'Y		1		WT
	2	VGS1001-031	SPEAKER		2		
	3	SBSF3010Z	SCREW	FOR SPEAKER	8		
	4	VJK3677-002	LCD LENS		1		
	5	VXP3759-001	POWER BUTTON		1		GR
		VXP3759-011	POWER BUTTON		1		WT
	6	VXP3760-00C	FUNC.BTN. ASS'Y		1		GR
		VXP3760-00D	FUNC.BTN. ASS'Y		1		WT
	7	VXP5324-00C	TIMER BTN ASS'Y		1		GR
		VXP5324-00D	TIMER BTN ASS'Y		1		WT
	8	SSSF3010Z	SCREW	FUNC.BTN+FRONT	2		
	9	VYSS2R5-024	SPACER	FOR FRONT CABI	1		
	10	SBSF2608Z	SCREW	TIMER BTN+FRONT	1		
	11	VYSA1R4-056	SPACER	MAIN PWB	1		
	12	VYSA1R4-056	SPACER	FOR P.BUTTON	1		
	13	SSSF3010Z	SCREW	P.BUTTON+SW PWB	1		
	14	SBSF3010Z	SCREW	FOR TUNER PWB	1		
	15	SSSF3010Z	SCREW	FUNC.BTN+SW PWB	1		
	16	VYH8046-001	MECHA SUPPORT		1		
	17	SBST3006Z	SCREW	M.SUPPORT+MECHA	1		
	18	SBSF3010Z	SCREW	FOR MAIN PWB	1		
	19	-----	CASSETTE MECHA		1		
	20	VYH8041-001	EJECT SAFETY		1		
	21	VKZ4323-002	SCREW	FOR E.SAFETY	2		
	22	VKS3655-002	F.P.C. HOLDER		1		
	23	SDST2604Z	SCREW	MECHA PWB	2		
	24	SSSF3012Z	SCREW	FOR FRONT+MECHA	1		
	25	VJT2366-013	CASSETTE DOOR		1		WT
		VJT2366-003	CASSETTE DOOR		1		GR
	26	VJT4231-001	DOOR LENS		1		GR
		VJT4231-011	DOOR LENS		1		WT
	27	VYH5601-001	GEAR	USE GREES G332	1		
	28	VYH8027-001	LOCK CAM		1		
	29	VKW5229-001	SPRING	FOR LOCK CAM	1		
	30	VYH8042-001	CAM HOLDER		1		
	31	VKZ4341-001	SPECIAL SCREW	L.CAM+C.HOLDER	1		
	32	SBSF3010Z	SCREW	F.CABI+LOCK CAM	1		
	33	VKW5219-004	DOOR SPRING		1		
	34	SSSF3012Z	SCREW	FOR FRONT+MECH	3		
	35	VMA4668-001	SHIELD CASE	FOR C MECHA HEA	1		
	36	VMA3232-004	SHIELD	FOR REC AMP PWB	1		
	37	SDST2604Z	SCREW	FOR S.CASE	2		
	38	SBST3006Z	SCREW	FOR SHIELD&PRE	1		
	46	VND5093-002	CAUTION SHEET		1		
	49	VYSS1R5-079	SPACER		3		
	50	-----	CD MECHA		1		
	51	VJD1206-012UL	CD CASE		1		WT
		VJD1206-002UL	CD CASE		1		GR
	52	VYH8028-001	DAMPER	CD MECHA+CD CAS	3		
	53	VKW5220-001	CONICAL SPRING		1		
	54	VYH3913-002	CD HOLDER		1		
	55	SBSF3008Z	SCREW	CD CASE+CD HOLD	3		
	56	VJD5482-001	PLATE	FOR CD CASE	1		GR
		VJD5482-011	PLATE	FOR CD CASE	1		WT

BLOCK NO. M1MM [ ] [ ] [ ] [ ]

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
57	VYH8044-001	GEAR	CD CASE+CD DOOR	1		
58	SBSF3008Z	SCREW	CD CASE+CD PWB	4		
59	SBSF3008Z	SCREW	CD CASE+LED PWB	2		
60	VJT2367-012	CD DOOR		1		WT
	VJT2367-002	CD DOOR		1		GR
61	VJD3994-001	CD DOOR HOLDER		1		
62	VJD5458-002	PLATE		2		
63	SSST3006M	SCREW	CD DOOR+CD COVE	2		
64	VYH8029-002	SHAFT	CD DOOR	1		
65	VKW5221-001	CD DOOR SPRING		1		
66	VYH8030-001	LOCK LEVER		1		
67	VXP5326-011	CD EJECT BUTTON		1		WT
	VXP5326-001	CD EJECT BUTTON		1		GR
69	SSSF3010M	SCREW	CD CASE+FRONT	2		
70	VYH3914-001	LCD HOLDER		1		
71	VJG1392-002UL	REAR CABINET		1		GR
	VJG1392-012UL	REAR CABINET		1		WT
72	VJA3001-00A(C)	ROD ANT ASS'Y		1		
73	VYH8025-001	TERMINAL LUG		1		
74	SDSP3012N	SCREW	FOR ROD ANT	1		
75	VJC2557-001	BATTERY COVER		1		GR
	VJC2557-011	BATTERY COVER		1		WT
76	E65923-003	TAPPING SCREW	BATT.PWB	1		
77	VJH2017-001	HANDLE		1		GR
	VJH2017-011	HANDLE		1		WT
78	VYH8043-001	HANDLE SUPPORTE		2		
79	VYH8026-001	BATTERY SPRING		1		
80	SBSF3035Z	SCREW	FRONT+REAR	8		
81	SBSF3010Z	SCREW	CD CASE+REAR	2		
82	VYN5198-C006T	NAME PLATE		1		GR
	VYN5198-C106T	NAME PLATE		1		WT
83	VND5001-002	HHS LABEL		1		
84	VYSA1R6-071	SPACER	SOUND ADJUST	4		
85	VYSA1R4-056	SPACER		2		
86	VYSA1R4-056	SPACER		2		
87	VND5008-001	FCC LABEL(4)		1		
89	VYSA1R6-072	SPACER	FOR DROPPING TE	1		
90	VYH3915-001	HEAT SINK	IC301,Q904,Q908	1		
91	DPSP3010Z	SCREW	FOR Q908	2		
92	SBSF3010Z	SCREW	FOR IC301	1		
93	VYH8047-001	BATTERY SPRING	FOR C	1		
94	VYH7199-001	BATTERY SPRING	FOR AA	1		

# 12 Packing illustration and parts list

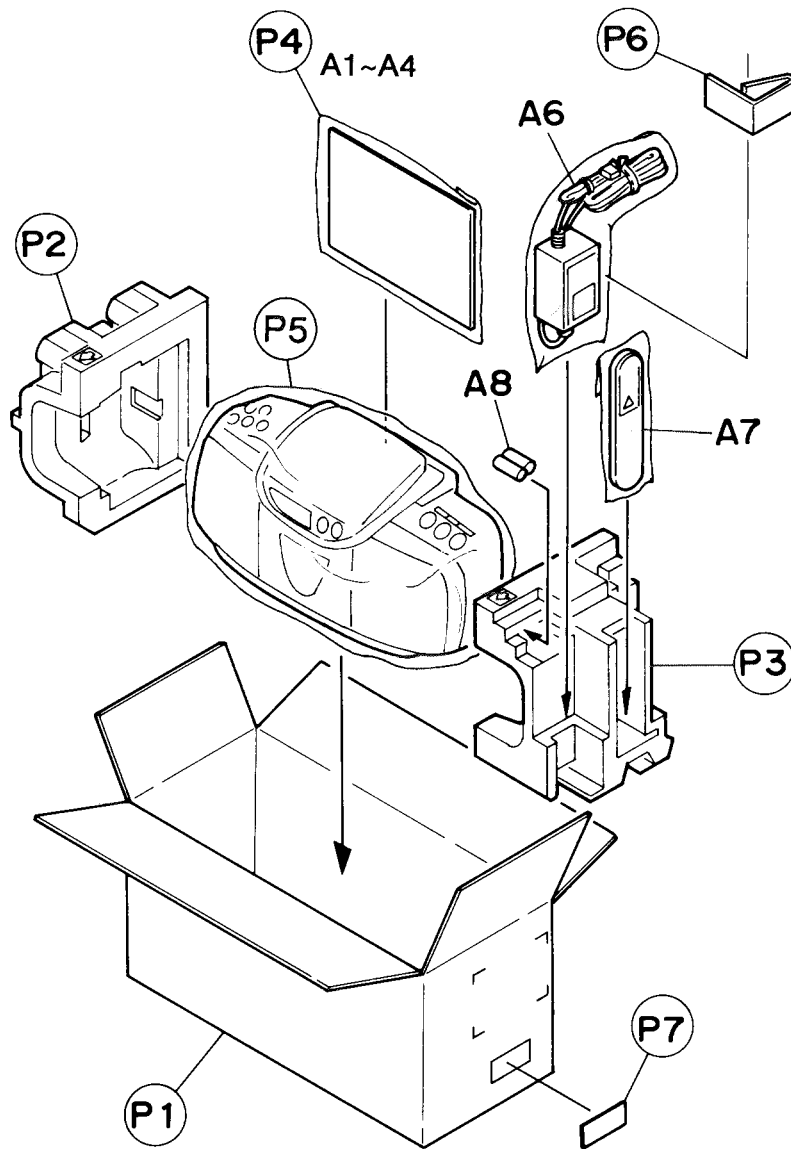


Fig. 12-1

## ● Packing parts list

BLOCK NO. M4MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	VPC5198-012	CARTON		1		WT
		VPC5198-002	CARTON		1		GR
P	2	VPH1685-001	CUSHION (L)		1		
P	3	VPH1685-002	CUSHION (R)		1		
P	4	VPE3005-007	POLY BAG	FOR INSTRUCTION	1		
P	5	VPE3026-003	POLY BAG	FOR SET	1		
P	6	VPK4323-001	SPACER	FOR AC ADAPTOR	1		
P	7	-----	CARTON LABEL	046838061424	1		GR
		-----	CARTON LABEL	046838061349	1		WT

● Accessories

BLOCK NO. M5MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN5198-611C	INSTRUCTIONS		1		
	A 2	BT-52002-1	WARRANTY CARD		1	C	
		BT-20047F	WARRANTY CARD		1	J	
	A 3	BT-20044G	SAFETY INST.		1		
	A 4	BT-20071B	SERVICE NETWORK		1	C	
		BT-20137	SERVICE NETWORK		1	J	
△	A 6	VGB0120-005	AC ADAPTOR	AA-R1206J	1		
	A 7	VGR0049-101	REMO-CON UNIT	RM-RXNX1BK	1		
	A 8	R6PPTT-2STSA	BATTERY		1		



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