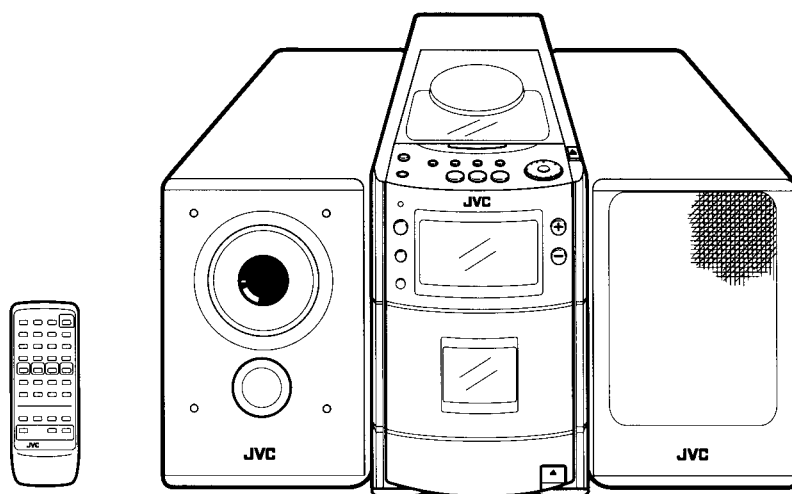


JVC

SERVICE MANUAL

MICRO COMPONENT SYSTEM

FS-T100 TN



COMPACT
disc
DIGITAL AUDIO

Area Suffix

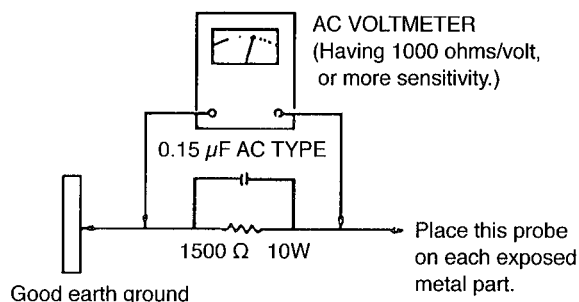
C..... Canada
J U.S.A.

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1. Safety Precautions

1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made.
Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer 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 by (△) on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA 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 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.).



CAUTION

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

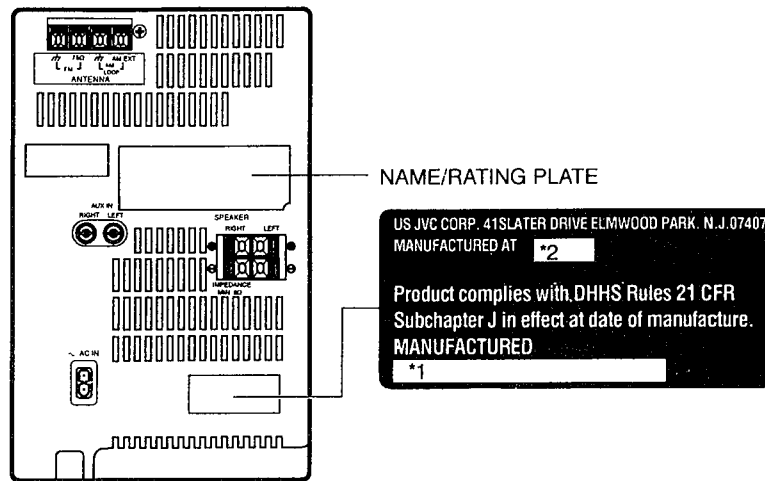
2. Safety Precaution about FS-T100BK

IMPORTANT FOR LASER PRODUCTS

(For U.S.A. only)

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

IDENTIFICATION LABEL AND CERTIFICATION LABEL

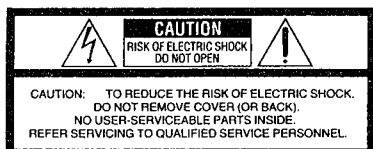


Notes:

*1 The date of manufacture.

*2 The code of manufacturing plate.

*3 Marking of country origin.



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

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 generates, uses, and can radiate 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

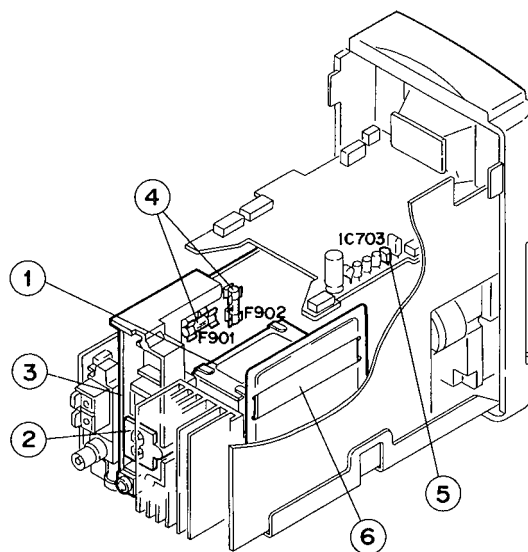
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment, into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

■ Important management points regarding safety (Item demanding special safety precautions)

1. Power transformer marking number "VTP66A2-12L" (UL Approved number).
The torque of the screw driver for the power transformer must be controlled.
2. Concerning the AC socket the next marking must be confirmed and to avoid prined circuit board pattern damage, the AC socket must not float from print circuit board. "Marking number HJC-027A".
3. Concerning the primary terminal and the adjacent secondary terminal on the prined circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.
4. Before installation confirm the fuse capacity indication, UL or CSA marks on the fuse cap, when installing, confirm if the fuse is held tightly with the fuse holder.

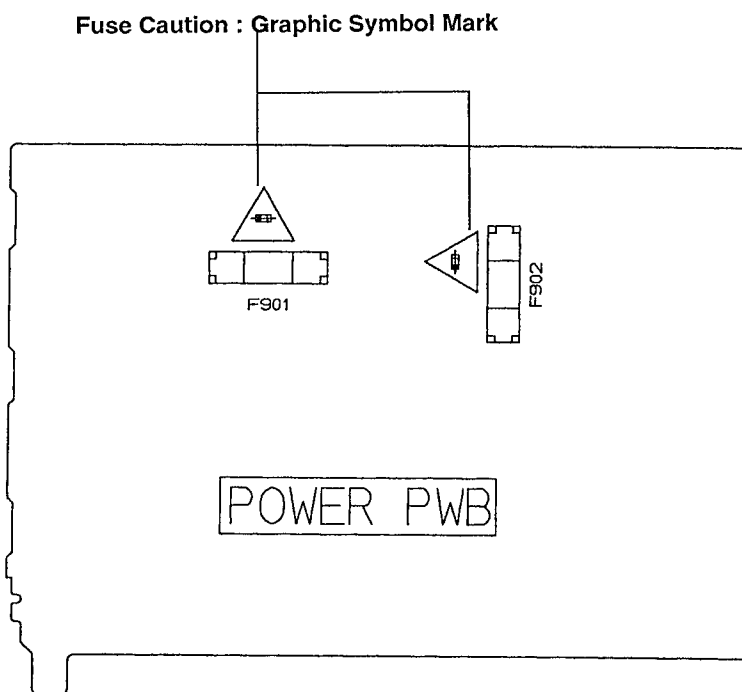
Ref. No.	Capacity and mark	Indication on printed circuit board
F901	800mA/250V	800mA/250V
F902	8A/125V	8A/125V

5. The parts on the pattern side of the printed circuit board must be fixed with spacers or bond.
6. Following parts are controlled as the heated parts, confirm that the flammable parts are lifted up, the parts in () must be controlled.
Radiation, Diode: D901, D902, D903, D904, D7011, IC; (IC301), Transistor: Q9001, Q9301, Q303, Q304, Q305.
Resistor: T9021, R310, R311, R9102.
7. Make sure the value of R901, R98 to be 3.3M (QRZ9037-335).
8. Concerning the fuse caution letters (Written in French of "C" version) or graphic indications must be confirmed.
9. The barrier must be attached on the shield of tighten with the power transformer.



■ IMPORTANT

:FuseReplacement Marking Check



FS-T100BK C/J

Full Fusereplacement Marking

Graphic symbol mark (This symbol means fast blow type fuse.) should be read as follows:



should be read as follows:

FUSE CAUTION

F901: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACEMENT ONLY WITH SAME TYPE 800 - mA, 250 - V FUSE.

F902: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 8 - A, 125 - V FUSE.

FS-T100BK C/J

Marquage Pour Le Remplacement Complet De Fusible

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



doit être interprété comme suit:

PRECAUTIONS SUR LES FUSIBLES

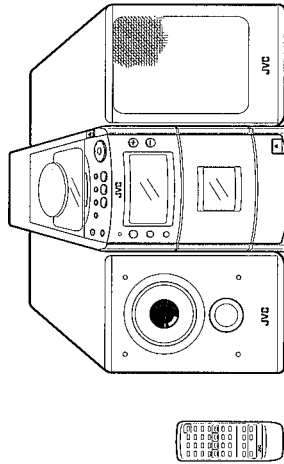
F901: POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEU7LEMENT PAR UN FUSIBLE DU MEME TYPE 800 - mA, 250 - V.

F902: POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE 8 - A, 125 - V.

JVC

ULTRA COMPACT COMPONENT SYSTEM
SISTEMA COMPONENTE ULTRACOMPACTO
CHAÎNE ULTRA COMPACTE

FS-T100 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 left side 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 ensure optimum performance and a longer service life from the unit.



ESPAÑOL

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 el máximo rendimiento y una vida de servicio más larga.

FRANÇAIS

Nous vous remercions d'avoir acheté cet appareil JVC. Veuillez lire consciencieusement le manuel d'instructions avant de commencer la manipulation de l'appareil afin d'obtenir les performances optimales et une durée de vie plus longue de cet appareil.

3. Instructions

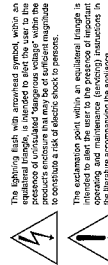
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WARNING:
TO REDUCE THE RISK OF FIRE OR
ELECTRIC SHOCK, DO NOT EXPOSE
THIS APPLIANCE TO RAIN OR
MOISTURE.



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



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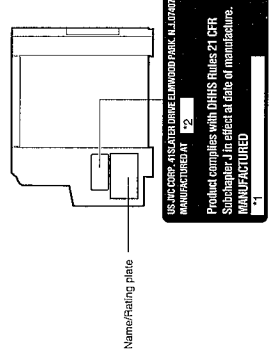
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AVERTISSEMENT:
POUR RÉDUIRE LES RISQUES
D'INCENDIE OU D'ÉLECTROCUTION,
NE PAS EXPOSER L'APPAREIL À LA
PLUIE NI À L'HUMIDITÉ.

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

- PRECAUTIONS**
1. CLASS 1 LASER PRODUCT
 2. DANGER: Invisible laser radiation when open. Do not look directly at the beam. Avoid direct exposure to beam.
 3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit. Leave all servicing to qualified service personnel.
 4. CAUTION: The CD player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD cover is closed. Do not touch the CD. It is dangerous to defeat the safety switches.
 5. CAUTION: Use of controls for adjustments and the specified herein may result in exposure to hazardous radiation.

IDENTIFICATION LABEL AND CERTIFICATION LABEL



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

CARACTERÍSTICAS	CARACTERISTIQUES
• CD-size micro component system consisting of 3 units • Active Hyper-Bass PRO circuit for low-frequency sound reproduction • One-touch operation (COMPU PLAY) • 35-Key remote control unit operates all CD, cassette and timer functions • Multi-track CD player • Programmed play of up to 20 tracks • Repeat Play • Random Play • U-Turn auto-reverse full-logic mechanism • Auto tape select mechanism • Hi-Fi type (IV) and CrO2 (type II) tape can be used • CrO2 (type II) tape recording capability • 2-band digital synthesizer tuner with 45 station (30 FM and 15 AM) preset capability • Seek/Manual tuning • Auto preset tuning • Timer/Clock function • Sleep timer can be set for up to 120 minutes	• Micro chaîne de la taille d'un disque composée de 3 appareils • Circuit hyper-grave actif PRO pour la reproduction de son basse fréquence • Fonctionnement une touche (COMPU PLAY) • Télécommande à 35 touches qui commande toutes les fonctions CD, platine à cassette et toutes les fonctions CD • Lecture CD à fonctions multiples • Lecture répétée • Lecture aléatoire • Dispositif entièrement logique d'inversion automatique U-Turn • Mécanisme de sélection automatique de bande • Des bandes de type IV ou CrO2 (type II) peuvent être lues pour une qualité supérieure du son • Possibilité d'enregistrement avec des bandes CrO2 (type II) • Synthesiseur à synthétiseur numérique 2 gammes avec possibilité de préréglage de 45 stations (30 FM et 15 AM) • Synchronisation automatique des préajustages • Synchronisation automatique des préajustages • Fonction minuterie/horloge • Marche/arrêt par minuterie avec fonction de préréglage de volume • La minuterie de sommeil peut être réglée pour jusqu'à 120 minutes

SAFETY PRECAUTIONS	PRECAUCIONES DE SEGURIDAD	CONSIGNES DE SECURITE
Prevention of Electric Shocks, Fire Hazards and Damage 1. Even when the POWER button 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.	Prevención de choques eléctricos, peligro de incendio y daños 1. Aunque el botón de alimentación POWER esté en posición de espera STANDBY, fluirá una pequeña corriente eléctrica. Para ahorrar energía y por seguridad cuando no utilice esta unidad durante un largo período, desconecte el cordón eléctrico del tomacorriente de CA. 2. No manipule el cordón eléctrico con las manos mojadas.	Prévention contre l'électrocution, les incendies et les dommages 1. Même lorsque la touche POWER est réglée sur STANDBY, une très faible courant électrique continuera à circuler. Pour économiser l'énergie et pour la sécurité, si l'appareil n'est pas utilisé pendant une longue période, débranchez le cordon d'alimentation de la prise secteur. 2. Ne pas saisir le cordon d'alimentation avec les mains humides.

3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Do not touch the power cord where it is disconnected, 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 anything inside 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 possibility of lightning.
10. If water gets inside the unit, unplug the power cord immediately 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.

POWER button
When the power cord is connected to a household AC outlet, the power indicator lights in red indicating the STANDBY mode. When the POWER button is pressed, the power indicator goes out and the display window lights.

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control and timer, or to back up the memory of the microprocessor, even when the POWER button is set to STANDBY.

Botón POWER
Cuando se conecta el cordón eléctrico al tomacorriente de CA, el indicador de alimentación se enciende en rojo indicando el modo STANDBY. Cuando se presiona el botón POWER, el indicador de alimentación se apaga y se enciende la ventanilla de indicación.

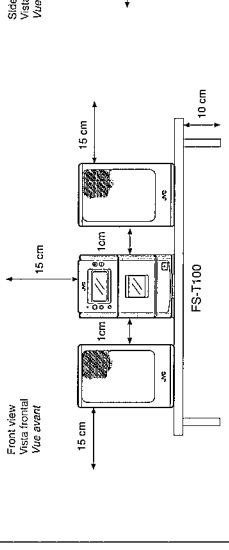
Esta unidad consume una pequeña corriente cuando se la conecta a un tomacorriente de CA, para hacer funcionar el controlador remoto y el temporizador, o para apoyo de la memoria del microprocesador, incluso cuando el controlador de botón POWER en STANDBY.

3. En desenchufando de la prise secteur, toujours tenir et tirer sur la fiche, pas sur le cordon.
4. Ne pas toucher le cordon où il est débranché, ou contact failure affecte le cordon.
5. Ne pas plier le cordon sévèrement et ne pas le tirer ni le tordre.
6. Ne pas modifier le cordon d'alimentation.
7. Pour éviter des accidents, ne pas retirer les vis pour démonter l'appareil et ne rien faire à l'intérieur de l'appareil.
8. Ne pas introduire d'objets métalliques dans l'appareil.
9. Débrancher le cordon secteur en cas d'orage.
10. Si de l'eau pénètre dans l'appareil, débrancher le cordon secteur de la prise et consulter votre revendeur.
11. Ne pas bloquer les orifices de ventilation de l'appareil qui permettent à la chaleur de s'évacuer.
- Ne pas installer l'appareil dans un endroit mal aéré.

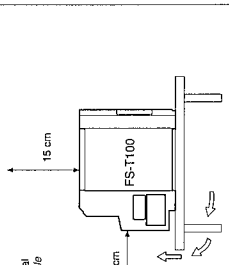
Touche d'alimentation (POWER)
Quand le cordon d'alimentation est branché sur une prise secteur, l'indicateur d'alimentation se allume en rouge indiquant le mode STANDBY. Quand la touche POWER est pressée, l'indicateur d'alimentation s'éteint et la fenêtre d'affichage s'allume.

Lorsque cet appareil est branché à une prise secteur, il consomme un léger courant pour commander la télécommande et la minuterie, ou pour maintenir la mémoire du microprocesseur, même quand la touche POWER est sur STANDBY.

Caution:
Proper Ventilation
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
1. Front: No obstructions and open spacing.
2. Sides/Top/Back: No obstructions should be placed in the areas shown by the dimensions below.
3. Bottom: Place on a level surface. Maintain an adequate air path for ventilation by placing on a table with a height of 10 cm or more.



Attention:
Aération correcte
Pour prévenir tout risque électrique ou d'incendie et éviter toute détérioration, placez l'appareil de la manière suivante:
1. Avant: Ne laissez rien devant l'appareil.
2. Côtés/Haut/Arrière: Ne laissez rien aux endroits indiqués dans les figures ci-dessous.
3. Dessous: Posez l'appareil sur une surface plane et horizontale. Veillez à ce que sa ventilation correcte puisse se faire en le plaçant sur une table d'au moins dix centimètres de hauteur.



HANDLING PRECAUTIONS



Do not use this unit in direct sunlight 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 or kitchen.
 - Where it could be magnetized by a magnet or speaker.
- Pay attention to dust**

Be sure to close the CD holder or CD tray so that dust does not collect on the lens.
- Condensation**

When moving the unit, condensation may occur in the mechanism 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 place to a warm one.

In these cases, set the POWER button to STANDBY 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 produce a high level of noise when the unit is turned on. Turn the volume lower before operation and adjust it as required during play.
- Safety mechanism**

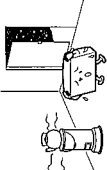
This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the CD holder or CD tray is open, the laser beam stops.
- Do not place cassette tapes, etc. near the speakers**

Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased.
- Keep this unit away from your TV**

Do not place this unit near your 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 these could damage the surface finish.
- When listening to music**
 - Do not listen at high volumes as this could damage your hearing.
 - For safety, do not drive while listening to this unit.

PRECAUTIONES DE MANIPULACION



No utilice esta unidad bajo la luz directa del sol donde podría quedar expuesta a temperaturas superiores a 40°C.

- Evite instalarla en los siguientes lugares**
 - Donde pueda ser sujeta a vibraciones.
 - Donde haya humedad excesiva, tal como en un baño o cocina.
 - Donde pueda ser magnetizada por un imán o altavoz.
- Preste atención al polvo**

Asegúrese de cerrar el portadisco o compartimento de CD para que el polvo no se deposite sobre la lente.
- Condensación**

Al mover la unidad, puede producirse condensación en el mecanismo de la unidad. La unidad no funcionará correctamente.

 - En una sala donde haya un calentador encendido.
 - En un lugar donde haya humo o gran humedad.
 - Cuando se traslada rápidamente la unidad de una sala fría a una templada.

En estos casos, coloque el botón POWER en STANDBY (conectado) y espere 1 o 2 horas antes de utilizarla.
- Ajuste del volumen**

Los productos de CD producen muy poco ruido comparados con las fuentes analógicas. Si el nivel de volumen está ajustado para estas fuentes, es posible que los altavoces sean dañados por el incremento brusco del nivel de salida. Por ello, reduzca el volumen antes de la operación y ajústelo como desee durante la reproducción.
- Mecanismo de seguridad**

Esta unidad posee un mecanismo de seguridad que intermite el rayo láser cuando se abre el portadisco o compartimento de CD, el rayo láser se apaga automáticamente.
- No coloque cassettes de cinta, etc., próximos a los altavoces**

Como hay imanes en los altavoces, no coloque cintas o tarjetas magnéticas cerca de los mismos, ya que los datos grabados pueden ser borrados.
- Mantenga esta unidad lejos de su TV**

Cuando se usa esta unidad próxima a un TV, la imagen de éste puede ser distorsionada. Si ello ocurre, mueva esta unidad lejos de la TV. Si esto no corrige el problema, evite usar esta unidad cuando la TV está encendida.
- Limpieza del gabinete**

Si el gabinete se ensucia límpielo con un paño suave y seco. Nunca utilice bencina o thinner para limpiar la superficie.
- No escuche con el volumen muy alto**

La exposición prolongada a altos volúmenes de sonido podría dañar sus oídos.

 - Por seguridad, no conduzca cuando esté escuchando esta unidad.
 - Por la seguridad, no pase conduciendo en el coche cuando esté escuchando el aparato.

PRECAUTIONS DE MANIPULATION



Ne pas utiliser cet appareil en plein soleil 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 les endroits trop humides, comme une salle de bain ou une cuisine.
 - Où il pourrait être magnétisé par un aimant ou un haut-parleur.
- Faire attention à la poussière**

Bien s'assurer de fermer le porte disque ou le tiroir CD pour que la poussière ne s'accumule pas sur la lentille.
- Condensation**

Quand on déplace l'appareil, 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.
 - Dans un endroit sujet à la fumée ou à l'humidité.
 - Quand l'appareil est déplacé d'une pièce froide vers une pièce chaude.

Dans ces cas, mettre la touche POWER sur STANDBY et attendre 1 ou 2 heures avant de l'utiliser.
- Régler le volume**

Un produit audiovisuel produit un souffle très faible comparé aux sources analogiques. Si le niveau de volume est réglé pour ces sources, les haut-parleurs peuvent être endommagés par une augmentation soudaine du niveau de sortie. Par conséquent, baisser le volume avant le fonctionnement et le régler comme requis pendant la lecture.
- Mécanisme de sécurité**

Cet appareil dispose d'un dispositif de verrouillage de sécurité qui éteint le coupe le rayon laser, de sorte que lorsque le porte disque ou le tiroir CD est ouvert, le rayon laser s'arrête automatiquement.
- 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 enregistrée ou de carte magnétique à proximité, un important matériel enregistré peut être effacé.
- Garder cet appareil éloigné de votre téléviseur**

Cet appareil est utilisé près d'un téléviseur. Si l'appareil est placé trop près du téléviseur, l'image du téléviseur peut être déformée. Si cela arrive, éloigner cet appareil du téléviseur. Si ce n'est pas suffisant, éviter d'utiliser cet appareil quand le téléviseur est en marche.
- Nettoyage du coffret**

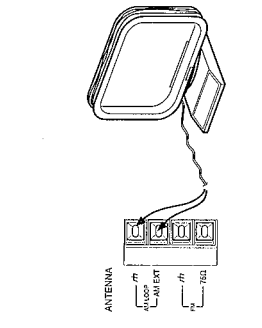
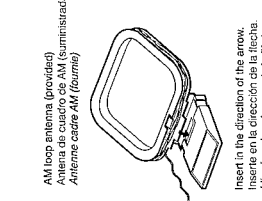
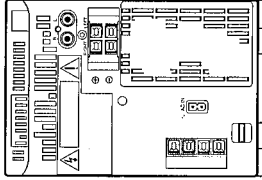
Si le coffret devient sale, l'essuyer avec un chiffon doux et sec. Ne pas utiliser de bencine ou de thinner pour nettoyer la surface.
- Ne pas écouter avec un casque d'écoute**

Une exposition prolongée à des volumes élevés de son peut nuire à l'audition.

 - Ne pas écouter à volume trop élevé car cela risque de provoquer des troubles de l'oreille.
 - Pour la sécurité, ne pas conduire en écoutant cet appareil.

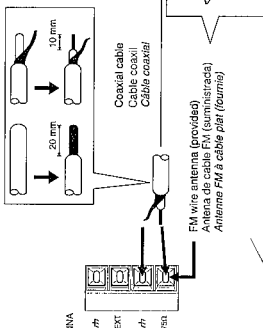
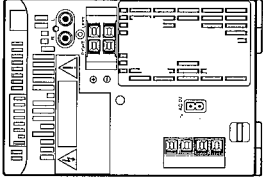
CONNECTIONS

- Do not switch the power on until all connections are completed.
- Antenna connection and adjustment
- AM loop antenna adjustment

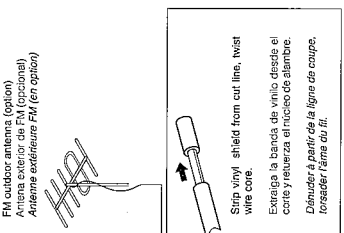


- Keep the loop antenna away from the unit and install it so that the best reception is obtained. (Do not leave the antenna wire in a bundle.)
- Conserve la antena de cuadro separada de la unidad e instálala de tal manera que se obtenga la mejor recepción. (No deje enrollado el cable de la antena.)
- Maintenir l'antenne éloignée de l'appareil et l'installer pour obtenir la meilleure réception. (Ne pas bobiner le fil d'antenne.)

- FM antenna connections and adjustments



- FM antenna connections and adjustments



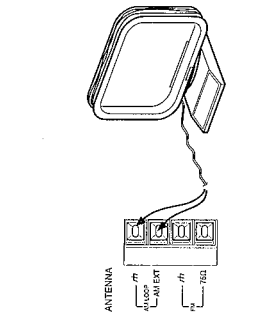
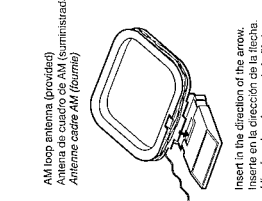
- Use an outdoor antenna when stable reception cannot be obtained with the provided antenna.
- Quando no sea posible obtener una recepción estable con la antena suministrada, utilice una antena exterior.
- Utiliser une antenne extérieure si une réception stable ne peut pas être obtenue avec l'antenne fournie.

- Notes:
- Do not place the loop antenna on a metal desk or in a TV or personal computer.
- When installing the antenna, avoid placing it near a power source, such as a power cord or a power outlet.
- La instalación de la antena externa requiere conocimientos; nosotros le recomendamos que consulte con su agente de audio.
- Coque the cable of the antenna lejos de los cordones de alimentación y de los altavoces ya que estos pueden generar interferencia.
- Cuando instale la antena de cuadro no la ponga en contacto con la parte trasera de la unidad.

- Remarques:
- Ne pas placer l'antenne cadre sur un bureau métallique ou près d'un téléviseur ou d'un ordinateur personnel.
- À l'installation de l'antenne extérieure, évitez de placer le câble de l'antenne près des cordons d'alimentation et des haut-parleurs car ceux-ci peuvent générer des parasites. Ne pas installer l'antenne cadre de manière à ce qu'elle touche l'arrière de l'appareil.

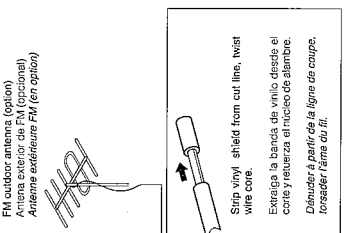
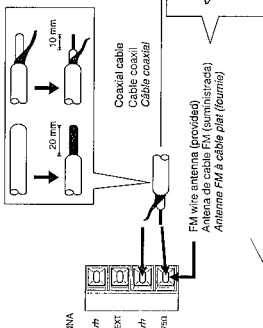
CONEXIONES

- No conecte la alimentación hasta haber completado todas las conexiones.
- Conexión y ajuste de la antena
- Ajuste de la antena de cuadro para AM



- Keep the loop antenna away from the unit and install it so that the best reception is obtained. (Do not leave the antenna wire in a bundle.)
- Conserve la antena de cuadro separada de la unidad e instálala de tal manera que se obtenga la mejor recepción. (No deje enrollado el cable de la antena.)
- Maintenir l'antenne éloignée de l'appareil et l'installer pour obtenir la meilleure réception. (Ne pas bobiner le fil d'antenne.)

- FM antenna connections and adjustments

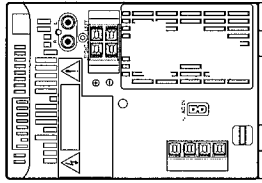


- FM antenna connections and adjustments

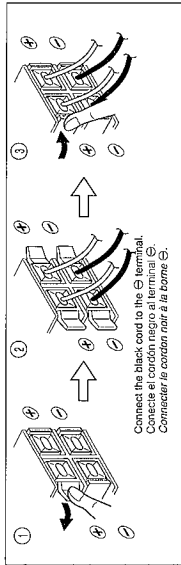
- Use an outdoor antenna when stable reception cannot be obtained with the provided antenna.
- Quando no sea posible obtener una recepción estable con la antena suministrada, utilice una antena exterior.
- Utiliser une antenne extérieure si une réception stable ne peut pas être obtenue avec l'antenne fournie.

- Remarques:
- Ne pas placer l'antenne cadre sur un bureau métallique ou près d'un téléviseur ou d'un ordinateur personnel.
- À l'installation de l'antenne extérieure, évitez de placer le câble de l'antenne près des cordons d'alimentation et des haut-parleurs car ceux-ci peuvent générer des parasites. Ne pas installer l'antenne cadre de manière à ce qu'elle touche l'arrière de l'appareil.

Speaker cord connection



Conexión de los cordones de los altavoces



Right speaker (rear side)
Altavoz derecho (lado posterior)
Haut-parleur de droite (côté arrière)

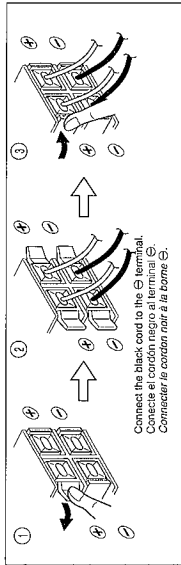
Left speaker (rear side)
Altavoz izquierdo (lado posterior)
Haut-parleur de gauche (côté arrière)

Speaker cord
Cable de altavoz
Cordon de haut-parleur

Black
Negro
Noir

Connect the black cord to the ⊕ terminal.
Conectar el cordón negro al ⊕ terminal.
Connecter le cordon noir à la borne ⊕.

Raccordement des câbles de haut-parleur



Right speaker (rear side)
Altavoz derecho (lado posterior)
Haut-parleur de droite (côté arrière)

Left speaker (rear side)
Altavoz izquierdo (lado posterior)
Haut-parleur de gauche (côté arrière)

Speaker cord
Cable de altavoz
Cordon de haut-parleur

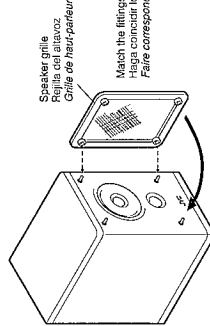
Black
Negro
Noir

Connect the black cord to the ⊕ terminal.
Conectar el cordón negro al ⊕ terminal.
Connecter le cordon noir à la borne ⊕.

- Connect the cord from the speaker on the left to the (LEFT) terminal and the cord from the speaker on the right to the (RIGHT) terminals.
- Conectar el cable del altavoz izquierdo a la terminal (LEFT) y el cable del altavoz de la derecha a las terminales (RIGHT).
- Connecter le cordon du haut-parleur de gauche sur les bornes (LEFT) et le cordon du haut-parleur de droite sur les bornes (RIGHT).

- The speaker grilles can be removed.
- When removing:
1. Push your fingers at the top and pull towards you.
2. Also pull the bottom towards you.

- Attaching the speaker grille



- The polarity of the two connected speakers will be the same if the black speaker cords are connected to the ⊕ terminals. If the speakers are connected with polarities reversed, stereo effect and tone will be degraded.
- The speakers should be placed magnetically shielded. When they are placed directly on or adjacent to a TV, the TV's picture could be distorted. Install the speakers more than 20 cm away from your TV.

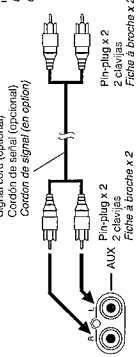
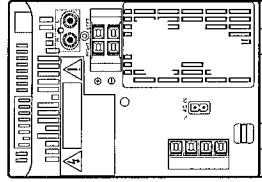
- La polaridad de los dos altavoces conectados es la misma si los cables negros son conectados a las terminales ⊕. Si se conectan los altavoces con las polaridades invertidas, se degradará el efecto estereoscópico y el tono.
- Los altavoces deben colocarse magnéticamente blindados. Cuando se los coloca directamente o adyacentes a un TV, la imagen de éste puede ser distorsionada. Instale los altavoces a más de 20 cm. de distancia de su TV.

- La polarité des deux haut-parleurs raccordés sera la même si les câbles de haut-parleur noir sont raccordés aux bornes ⊕. Si les haut-parleurs sont raccordés avec des polarités inversées, l'effet stéréo et la tonalité seront dégradés.
- Les haut-parleurs de cet appareil ne sont pas blindés magnétiquement. Quand ils sont placés directement sur ou à côté d'un téléviseur, l'image de ce dernier peut être distordue. Installez les haut-parleurs à plus de 20 cm du téléviseur.

- When connecting the speaker cord make sure that the wire core, not the insulating cover, is connected to the speaker terminal. Otherwise, sound cannot be heard.

Connection of external audio units

- Connection with a turntable (or MD player)



Conexión de unidades externas de audio

- Conexión con un localizador (o reproductor de MD)

Raccordement d'appareils audio externes

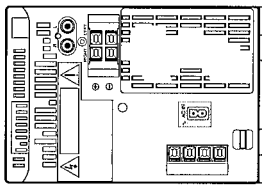
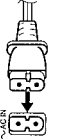
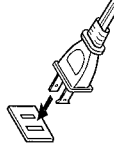
- Raccordement avec une platine tourne-disque (ou lecteur MD)

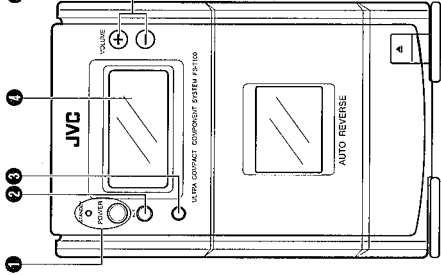
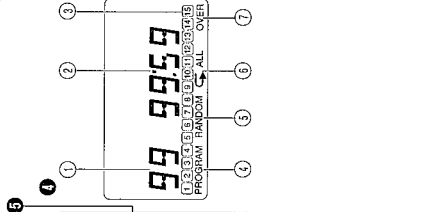
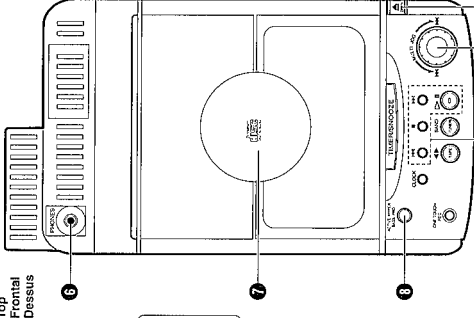
Turntable (with built-in equalizer) or MD player (optional)
Creador de discos (con ecualizador incorporado) o reproductor MD (opcional)
Platine tourne-disque (avec correcteur incorporé) ou lecteur MD (en option)

- Note:
Regarding the connection with external units and their operations, refer to the instructions provided with those units.

- Nota:
Relación a la conexión de unidades externas y sus operaciones, véase las instrucciones suministradas con esas unidades.

- Remarque:
À propos du raccordement avec des appareils externes et leur fonctionnement, se référer aux instructions fournies avec ces appareils.

POWER SUPPLY		ALIMENTACION		ALIMENTATION	
A. Connection of AC power cord • Connect the AC power cord after all other connections have been made.		A. Conexión del cordón de CA • Conecte el cordón de CA después de haber terminado todas las conexiones.		A. Raccordement du cordon d'alimentation CA • Branchez le cordon d'alimentation CA une fois que tous les autres raccordements ont été effectués.	
					
• The provided AC power cord for this unit has a certain one-way direction. Connections in the reverse direction may cause electric shock. Refer to the illustration for correct connection.		• El cordón de CA suministrado con esta unidad tiene una dirección única. Las conexiones en sentido contrario pueden causar choques eléctricos. Refiérase a la ilustración para su conexión correcta.		(For CANADA) CAUTION TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE BLADE OF PLUG TO WIDE SLOT. FULLY INSERT. (Pour CANADA) ATTENTION POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME COMPLETEMENT DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.	
CAUTIONS: 1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. 2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS TO BE USED FOR AN EXTENDED PERIOD OF TIME.		PRECAUCIONES: 1. PARA EVITAR FALLAS O DAÑOS EN LA UNIDAD, UTILICE EL CORDON DE ALIMENTACION DE JVC SUMINISTRADO CON ESTA UNIDAD. 2. ASEGURESE DE DESENCHUFAR EL CORDON DE ALIMENTACION DEL CORDON DE LA UNIDAD CUANDO NO VAYA A UTILIZAR LA UNIDAD POR UN LARGO PERIODO.		PRECAUTIONS: 1. UTILISER SEULEMENT AVEC LE CORDON D'ALIMENTATION JVC FOURNI AVEC CET APPAREIL POUR EVITER UN MALFONCTIONNEMENT OU UN DOMMAGE A L'APPAREIL. 2. BIEN DERANCHER LE CORDON D'ALIMENTATION DE LA PRISE DE COURANT QUAND VOUS SORTEZ OU QUAND VOUS N'UTILISEZ PAS L'APPAREIL PENDANT UNE LONGUE PERIODE.	
Note: • When there is a power failure or the AC power cord is disconnected, the timer/clock and memory CA will be reset to the default setting. When the power supply is restored, the clock will be restored.		Note: • Cuando hay un corte de energía eléctrica o el cordón de alimentación CA se desconecta, el reloj y la memoria CA se borran de la memoria. Después de que se restaure el suministro eléctrico, el reloj cuando se restaura el suministro eléctrico.		Remarque: • Si il y a une panne de courant ou si le cordon de l'alimentation CA est débranché, le réglage de la mémoire horloge est effacé de la mémoire. Refaire le réglage de l'horloge lorsque l'alimentation est revenue.	

NAMES OF PARTS AND THEIR FUNCTIONS		NOMBRES DE LAS PARTES Y SUS FUNCIONES		NOMS DES PIECES ET LEURS FONCTIONS	
CD player / General section Front panel / Avant		Reproductor de CD/sección general Panel frontal / Dessus		Section lecteur CD/générale	
					
1 POWER button and power-standby indicator 2 AUX button 3 Remote sensor section 4 Function/Track number display 5 Play time display 6 Music calendar display 7 Program mode indicator (PROGRAM) 8 Repeat play indicator (REPEAT) 9 VOLUME indicator - : Use to increase the volume. + : Use to decrease the volume. 10 Headphones jack (PHONES) (3.5 mm dia. stereo mini) Connect headphones (Impedance 16Ω to 1kΩ) to this jack. Speaker sound is automatically muted off when the headphones are connected. 11 CD holder 12 ACTIVE HYPER BASS PRO button CD search buttons (◀◀, ▶▶): Press to locate the beginning of a track and to start forward/reverse search operations. Stop button (■): Press to stop playing a CD. 13 CD play/pause button (▶ ◀): Press to play a CD or to stop temporarily. 14 MULTI JOG dial When the function is CD and the dial is turned, the beginning of a track can be selected. (Track selected by 2 clicks.) 15 CD holder OPEN (▲) button		1 Botón POWER e indicador de alimentación 2 Botón AUX 3 Vericable de indicación 4 Indicación de función/número de pista 5 Indicación de tiempo de reproducción 6 Indicación de calendario musical (PROGRAM) 7 Indicación de modo de programación (PROGRAM) 8 Indicador de reproducción REPETIDA (REPEAT) 9 Indicador VOLUME - : Sirve para aumentar el volumen. + : Sirve para reducir el volumen. 10 Conexión de auriculares (PHONES) (mini jack estéreo de 3.5 mm de diámetro). Conecte los auriculares (impedancia de 16Ω a 1kΩ) a este jack. El sonido de los altavoces se desconecta automáticamente cuando se conectan los auriculares. 11 Portadisco de CD 12 Botón ACTIVE HYPER BASS PRO 13 Botones de búsqueda de CD Botones (◀◀ ▶▶) de búsqueda de CD Botones (▶ ◀) de reproducción de CD Presione para ubicar el principio de una pista e iniciar las operaciones de búsqueda hacia adelante/hacia atrás. Botón de parada (■): Presione para parar la reproducción de CD. Botón (▶ ◀) de reproducción de CD/pausa Presione para reproducir un CD o para parar temporalmente. 14 Disco MULTI JOG Cuando la función está en CD, gire el disco para iniciar la búsqueda del principio de una pista. (1 pista es seleccionada con 2 clics.) 15 Botón (▲) de apertura (OPEN) del portadisco de CD		1 Touche STANDBY 2 Touche AUX 3 Section capteur de télécommande 4 Vericable de indication 5 Affichage de la fonction/número de piste 6 Affichage de la durée de lecture 7 Affichage du calendrier musical 8 Indicateur de mode programmé (PROGRAM) 9 Indicateur de lecture répétée (REPEAT) 10 Indicateur de volume (VOLUME) - : Utiliser pour augmenter le volume. + : Utiliser pour réduire le volume. 11 Prise de casque d'écoute (PHONES) (mini stéréo de 3.5 mm de diamètre) Raccorder un casque d'écoute (impédance de 16Ω à 1kΩ) à cette prise. Le son des haut-parleurs est automatiquement coupé lorsque le casque est branché. 12 Porte CD 13 Touche ACTIVE HYPER BASS PRO 14 Touches de recherche CD (◀◀ ▶▶): Appuyer pour localiser le début d'une piste et pour lancer les opérations de recherche avant/arrière. 15 Touche d'arrêt (■): Appuyer pour arrêter la lecture d'un CD. 16 Touche lecture CD/pause (▶ ◀): Appuyer pour lire un disque et pour arrêter momentanément la lecture. 17 Disque MULTI JOG Lorsque la fonction est sur CD, et que la molette est tournée, le début d'une piste peut être recherché. (1 piste est sélectionnée par 2 clics.) 18 Touche d'ouverture du porte disque (▲)(OPEN)	

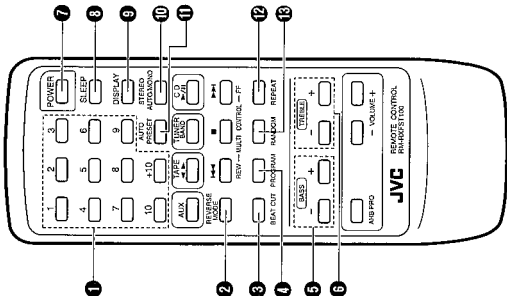
SWITCHING THE POWER ON/OFF CONEXION/DESCONEXION DE LA ALIMENTACION COMMUTATION MARCHE/ARRET DE L'ALIMENTATION

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

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

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

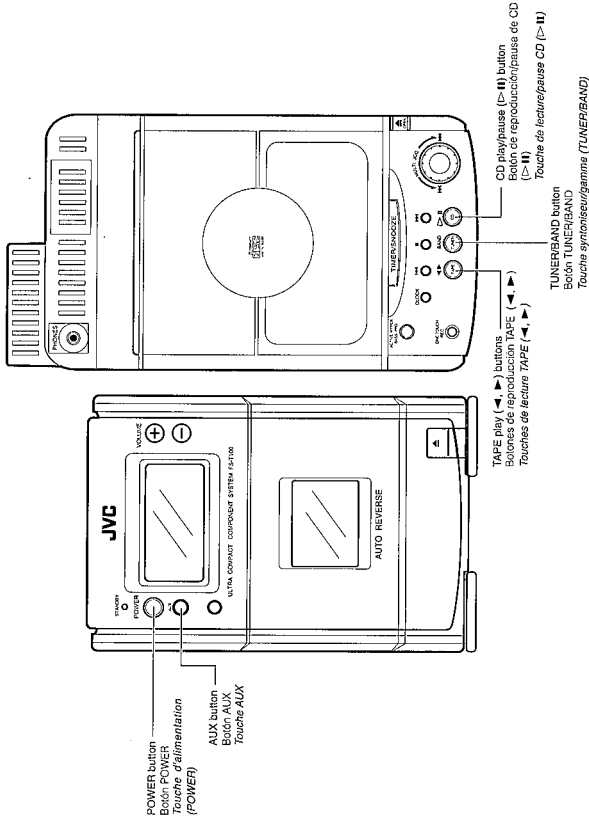
• Compruebe detalladamente el funcionamiento de los botones de operación y opérelas correctamente.



- 1 Track number buttons (No. 1 to No. 10, +10)
Press station buttons (No. 1 to No. 10, +10)
⇐ : For single-side recording or playback
⇒ : For recording or playback on both sides
- 2 BEAT CUT button
- 3 PROGRAM button
- 4 BASS buttons (+, -)
(Control range from -6 to 6.)
- 5 TREBLE buttons (+, -)
(Control range from -6 to 6.)
- 6 SLEEP button
- 7 DISPLAY button
Use to display the current time.
- 8 STEREO AUTOMONO button
- 9 REPEAT button
- 10 RANDOM button
- Buttons not mentioned here have the same functions as those on the main unit.

- 1 Botones (No. 1 a No. 10, +10) de número de pista
Presione los botones de radioemisor (No. 1 a No. 10, +10)
⇐ : Para grabación del solo lado o reproducción, reproducción en ambos lados.
- 2 Botón BEAT CUT
- 3 Botón PROGRAM
- 4 Botones BASS (+, -)
(Límites de control de -6 a 6.)
- 5 Botones TREBLE (+, -)
(Límites de control de -6 a 6.)
- 6 Botón SLEEP
- 7 Botón DISPLAY
Emplee para llamar la indicación de la hora.
- 8 Botón STEREO AUTOMONO
- 9 Botón REPEAT
- 10 Botón RANDOM
- Los botones que no están aquí mencionados tienen las mismas funciones que los de la unidad principal.

- 1 Touches de numéro de piste (No. 1 à No. 10, +10)
Appuyez sur les touches de station (No. 1 à No. 10, +10)
⇐ : Pour l'enregistrement ou la lecture d'une face
- 2 Touche coupe-battement (BEAT CUT)
- 3 Touche de programme (PROGRAM)
- 4 Touches des graves (BASS) (+, -)
(Limites de contrôle de -6 à 6.)
- 5 Touches des aigus (TREBLE) (+, -)
(Limites de contrôle de -6 à 6.)
- 6 Touche POWER.
- 7 Touche d'affichage (DISPLAY)
Utiliser pour afficher l'heure courante.
- 8 Touche STEREO AUTOMONO
- 9 Touche PRÉSET
- 10 Touche de répétition (REPEAT)
- 11 Touche pour lecture aléatoire (RANDOM)
- Les touches non mentionnées ici ont les mêmes fonctions que celles sur l'appareil principal.



- Switching the power on/off
• Switching on:
The STANDBY indicator goes out.
El indicador STANDBY se apaga.
L'indicateur STANDBY s'éteint.
- Switching off:
The STANDBY indicator lights.
El indicador STANDBY se enciende.
L'indicateur STANDBY s'allume.

- Conexión/desconexión de la alimentación
• Conexión:
The indicator in the display window goes out.
El indicador en la vitrina de indicación se enciende.
La fenêtre d'affichage s'allume.
- Desconexión:
The indicator in the display window goes out and only the clock is indicated.
El indicador en la vitrina de indicación y solo permanece la indicación del reloj.
L'indicateur STANDBY s'allume.

- Commutation marche/arrêt de l'alimentation
• Mise en marche:
The indicator in the display window goes out.
El indicateur en la vitrine d'indication s'allume.
La fenêtre d'affichage s'allume.
- Mise à l'arrêt:
The indicator in the display window goes out and only the clock is indicated.
El indicateur en la vitrine d'indication y solo permanece la indicación del reloj.
L'indicateur STANDBY s'allume.

MANIPULATION DES DISQUES
AUDIONUMERIQUES

Comme la saleté, des disques endommagés ou gondolés peuvent provoquer des dommages à l'appareil, faire attention aux points suivants:

1. Disques audionumériques utilisables
Utiliser des disques portant la marque marquée.
2. Remarques sur la manipulation des disques
• Ne pas toucher la surface enregistrée.
• Ne pas écrire sur la face portant l'étiquette.
• Ne pas chiffrer les disques.
3. Stockage
• Après retrait d'un disque de l'appareil, s'assurer de bien le remettre dans son emballage.
• Ne pas exposer les disques en plein soleil.
• Ne pas utiliser l'appareil de chauffage, dans les endroits très humides ou sales.
4. Nettoyage d'un disque
• Avant de charger un disque, essuyer la surface avec un chiffon doux. Le disque doit être nettoyé de l'intérieur vers l'extérieur.
- Ne jamais utiliser de diluant, de benzine, du nettoyant pour les disques analogiques ou un jet pulvérisé antistatique.

MANIPULACION DE CD

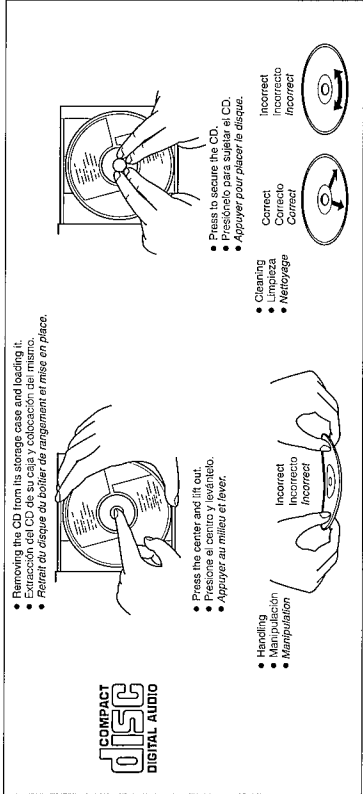
Como los CD sucios, dañados o alabeados pueden dañar la unidad, tome precauciones en relación a lo siguiente:

1. CD utilizables
Use CDs con la marca indicada.
2. Notas sobre manipulación de CD
• No toque la superficie grabada del disco.
• No escriba ni escriba nada sobre el lado de la etiqueta.
• No dobles los CDs.
3. Almacenamiento
• Después de extraer un CD de la unidad, asegúrese de colocarlo otra vez en su caja.
• No exponga los CDs a la luz directa del sol, altas temperaturas provenientes de un calentador, etc., alta humedad, o polvo.
4. Limpieza de CD
• Antes de colocar un CD, limpie el polvo, suciedad o huellas digitales con un paño suave. Los CDs deben ser limpiados radialmente desde el centro hacia el borde.
- Nunca utilice solvente, bencina, limpiador de discos o aerosol antistático.

HANDLING CDS

Since dirty, damaged and warped CDs may damage the unit, take care regarding the following:

1. Usable CDs
Use CDs with the mark shown.
2. Notes on handling CDs
• Do not touch the reflective recorded surface.
• Do not stick or write anything on the label side of the disc.
• Do not bend CDs.
3. Storage
• After removing 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.
4. Cleaning CDs
• Before loading a CD, wipe off any dust, dirt or 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.



Operation of a single touch (COMPU PLAY)

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
	When this button is pressed with a CD loaded, CD playback begins. Cuando se presiona este botón con un disco cargado, comienza la reproducción del mismo. Lorsque cette touche est pressée avec un disque chargé, la lecture du disque CD commence.
	When this button is pressed with a tape loaded, tape playback begins. Cuando se presiona este botón habiendo una cinta colocada, comienza la reproducción de la misma. Lorsque cette touche est pressée avec une cassette chargée, la lecture de la cassette commence.
	When this 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.
	A sound source connected to the AUX terminal can be engaged. Es posible activar una fuente de sonido que está conectada al terminal AUX. Une source de son raccordée à la borne AUX peut être engagée.

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

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

Notas:
• Para desconectar la alimentación asegúrese de presionar el botón POWER.
• La función COMPU PLAY del controlador remoto tiene la misma función que el de la unidad principal.

VOLUME, TONE AND OTHER CONTROLS

VOLUME buttons
• Use to increase the volume.
• Use to decrease the volume.
(Control range from VOLUME 0 to VOLUME 50.)

VOLUME
+ -
↑ ↓
VOLUME 0

BASS/TREBLE buttons (using the remote control unit)
• Bass or treble level, press the corresponding button. The level setting ranges from -6 to 6.

BASS + TREBLE
- +
↑ ↓
BASS 0 TREBLE 0

ACTIVE HYPER-BASS PRO button
ON: The BASS indicator lights up. Set to this position to activate ACTIVE HYPER-BASS PRO sound.
OFF: The BASS indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

Botón de hiper graves activos profesionales (ACTIVE HYPER-BASS PRO)
ON: Se enciende el indicador BASS. Colóquelo en esta posición para activar el sonido hiper grave activo profesional.
OFF: Se apaga el indicador BASS. Colóquelo en esta posición cuando no desee activar el sonido de hiper grave activo profesional.

Botón de hiper graves activos profesionales (ACTIVE HYPER-BASS PRO)
ON: L'indicateur BASS s'allume. Réglez sur cette position pour activer le son hyper grave actif pro.
OFF: L'indicateur BASS s'éteint. Réglez sur cette position lorsque le son hyper grave actif pro n'est pas nécessaire.

VOLUME, TONALITE ET AUTRES COMMANDES

Touche de volume (VOLUME)
+ : Utiliser pour augmenter le volume.
- : Utiliser pour réduire le volume.
(Gamme de commande de VOLUME 0 à VOLUME 50.)

VOLUME
+ -
↑ ↓
VOLUME 0

Touche BASS/TREBLE (en utilisant la télécommande)
• Régler le niveau des graves ou des aigus, appuyer sur la touche correspondante. Le réglage de niveau s'étend de -6 à 6.

BASS + TREBLE
- +
↑ ↓
BASS 0 TREBLE 0

ACTIVE HYPER-BASS PRO button
ON: The BASS indicator lights up. Set to this position to activate ACTIVE HYPER-BASS PRO sound.
OFF: The BASS indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

Botón de hiper graves activos profesionales (ACTIVE HYPER-BASS PRO)
ON: Se enciende el indicador BASS. Colóquelo en esta posición para activar el sonido hiper grave activo profesional.
OFF: Se apaga el indicador BASS. Colóquelo en esta posición cuando no desee activar el sonido de hiper grave activo profesional.

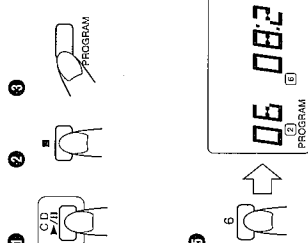
- To designate track number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 20th track, press the +10 button once, then press track number button 10.)

Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- To skip to another track during play When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated track.

Programmed play (using the remote control unit)

- Up to 20 tracks can be programmed to be played in any required order. The total playing time of programmed tracks is displayed (up to 99 minutes, 59 seconds). Example: When programming the 2nd track to be played first and the 8th track next, then the 12th track, etc.)



- 1 Press the CD button to set to the CD mode.
- 2 Press the PROGRAM button to set to the programming mode.
- 3 Press the track number button to designate the required track number.
- 4 Press the track number button to designate the remaining tracks by pressing the track number buttons.
- 5 Press the PROGRAM button when programming is completed. Programmed play starts.

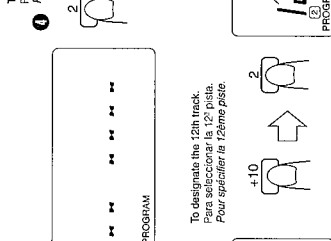
- Para designar el número de pista 11 o superior, presione el botón +10 el número necesario de veces, y luego un botón de número de pista. (Ejemplo: Para designar la pista 20, presione el botón +10 una vez, y luego presione el botón 10 de número de pista.)

Cada vez que presione este botón, el número se incrementa en 10. Primero presione este botón para ingresar las decenas, luego presione el botón de número de pista para ingresar las unidades.

- Para saltar a otra pista durante la reproducción Cuando presiona el número de pista deseada, la indicación muestra el número de la pista y se inicia la reproducción desde el principio de la pista designada.

Reproducción programada (utilizando la unidad de control remoto)

- Es posible programar un máximo de 20 pistas para reproducción en el orden deseado. La unidad indicará el tiempo total de reproducción de las pistas programadas (máximo de 99 minutos, 59 segundos). Ejemplo: Cuando se programa la 2ª pista para que sea reproducida primero, la 8ª para ser reproducida a continuación y luego la pista 12ª, etc.)



- 1 Para activar el modo CD, presione el botón CD.
- 2 Presione el botón PROGRAM para activar el modo de programación.
- 3 Presione el botón PROGRAM para seleccionar el número deseado de pista.
- 4 Presione el botón PROGRAM para seleccionar el número deseado de pista.
- 5 Presione el botón PROGRAM para seleccionar el número deseado de pista.
- 6 Cuando termine la programación presione el botón PROGRAM. Se inicia la reproducción programada.

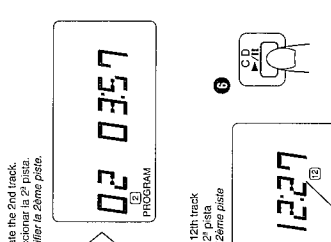
- Pour désigner les numéros supérieurs à 10, appuyer sur la touche +10 le nombre de fois nécessaire pour les dizaines puis sur une touche de numéro de piste. (Exemple: Pour désigner le morceau 20, appuyer une fois sur la touche +10 puis appuyer une fois sur la touche 10 de numéro de piste.)

A chaque pression sur cette touche, le numéro augmente de 10. Presser d'abord cette touche pour le chiffre des dizaines puis presser la touche de numéro de piste pour le chiffre des unités.

- Pour passer à une autre piste pendant la lecture Quand la touche de numéro de piste voulue est pressée, l'affichage indique le numéro de piste spécifiée et la lecture commence à partir du morceau spécifié.

Lecture programmée (en utilisant la télécommande)

- Jusqu'à 20 pistes peuvent être programmées pour être lues dans n'importe quel ordre. La durée de lecture totale des pistes programmées est affichée (jusqu'à 99 minutes, 59 secondes). Exemple: Quand la 2ème piste doit être lue en premier, la 8ème en second puis la 12ème, etc.)



- 1 Appuyer sur la touche CD pour passer au mode CD.
- 2 Appuyer sur la touche PROGRAM pour passer en mode de programmation.
- 3 Appuyer sur la touche PROGRAM pour désigner le numéro de piste voulu.
- 4 Appuyer sur la touche PROGRAM pour désigner le numéro de piste voulu.
- 5 Appuyer sur la touche PROGRAM pour désigner le numéro de piste voulu.
- 6 Quand la programmation est terminée, la lecture programmée commence.

- To confirm the details of a program... Press the PROGRAM button. The program up the program will be displayed in programmed order.

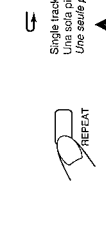


- To clear the programmed tracks... Press the PROGRAM button twice. During programmed play, press the button twice. When this button is pressed, programmed tracks are cleared automatically.

- Notes: • If the total playing time of the programmed tracks exceeds 99 minutes 59 seconds, the total playing time indication will go out. • Programmed tracks are cleared automatically when a disc is loaded. • If the total playing time of all the programmed tracks will not be displayed. • When a disc with 16 or more tracks is loaded, the "OVER" indicator will appear.

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 (≡) to all the tracks (≡ ALL) to the random mode, in this order.



- Single track repeat (≡) The current or specified track will be played repeatedly. • Repetition of one CD repeat (≡ ALL) All tracks of the programmed tracks of a CD will be played repeatedly.

Random play (using the remote control unit)

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



- Para confirmar los detalles de un programa... Presione el botón PROGRAM. Los detalles del programa serán indicados en el orden programado.



- Para borrar las pistas programadas... Presione el botón PROGRAM dos veces. Durante la reproducción programada presione este botón dos veces. Cuando se abre el compartimiento del CD, las pistas programadas se borran automáticamente.

- Notes: • Si el tiempo total de reproducción de las pistas programadas excede los 99 minutos y 59 segundos, se apagará la indicación de tiempo total de reproducción. • Cuando se carga un disco nuevo, las pistas programadas se borran automáticamente. • Si el tiempo total de reproducción de las pistas programadas no se muestra. • Cuando un disco con 16 pistas o más aparecerá la indicación "OVER".

Repetición de reproducción (utilizando la unidad de control remoto)

Presione el botón REPEAT antes o durante la reproducción. Es posible repetir una sola 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 al modo de repetición de una pista (≡), a todas las pistas (≡ ALL), a modo de borrado, en este orden.



- Repetición de una sola pista (≡) La pista actual o la especificada será reproducida repetidamente. • Repetición de todas las pistas de un CD (≡ ALL) Todas las pistas o las programadas de un CD serán reproducidas repetidamente.

Reproducción aleatoria (utilizando la unidad de control remoto)

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

- Pour vérifier les détails d'un programme... Appuyez sur la touche PROGRAM. Les pistes que composent le programme seront affichées dans l'ordre programmé.



- Pour annuler les pistes programmées... Appuyez sur la touche PROGRAM deux fois. Pendant la lecture programmée, appuyez deux fois sur cette touche. Quand le porte disque est ouvert, les morceaux programmés sont automatiquement annulés.

- Remarques: • Si la durée de lecture totale des pistes programmées dépasse 99 minutes 59 secondes, l'indication de durée de lecture totale s'éteint. • Lorsque vous chargez un nouveau disque, les pistes programmées sont automatiquement annulées. • Si le temps total de reproduction des pistes programmées n'est pas affiché. • Lorsqu'un disque avec 16 pistes ou plus est chargé, l'indicateur "OVER" apparaîtra.

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 (≡) à toutes les pistes (≡ ALL), à mode d'effacement, dans cet ordre.

- Répétition d'une seule piste (≡) La piste courante ou spécifiée sera lue plusieurs fois. • Répétition de toutes les pistes (≡ ALL) Toutes les pistes ou les pistes programmées sur un disque seront lues plusieurs fois.

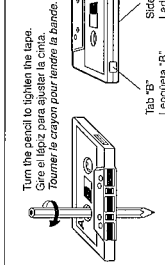
Lecture aléatoire (en utilisant la télécommande)

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

HANDLING CASSETTE TAPES

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

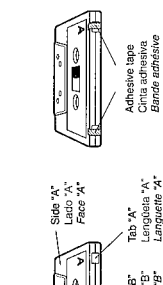
- Cassette loading**
1. Press the eject (▲) button to open the cassette holder.
 2. Load a cassette as shown.
 3. Close the cassette holder by pressing it gently. Listen for the click indicating that the holder is securely shut.



MANIPULATION DE CASSETTES DE CINTA

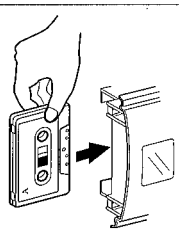
- Cassettes de cinta**
1. La cinta ligja puede causar problemas. Con un lápiz u otro objeto, aligere la cinta tal como se muestra.
 2. Para evitar borrar grabaciones accidentalmente, extraiga las lengüetas con un destornillador, etc. Para borrar la cinta después de haber extraído las lengüetas, selle las ranuras con cinta adhesiva.
 3. Las cintas C-120 no son recomendadas porque tienen tendencia a fallar.

- Colocación de cassettes**
1. Presione el botón eyección (▲) para abrir el portacassette.
 2. Extraiga el cassette como se muestra.
 3. Cierre el portacassette presionándolo suavemente. Cuando oiga un "click" ello indica que el portacassette está correctamente cerrado.



MANIPULATION DES CASSETTES

- Cassettes**
1. Une bande qui a du jeu peut être source de mauvais fonctionnement. Utiliser un crayon ou un objet semblable pour la retendre.
 2. Pour éviter l'effacement accidentel d'un enregistrement, ôter les languettes avec un tournevis. Reboucher les orifices avec du ruban adhésif si vous désirez effacer ou réenregistrer après que les languettes aient été cassées.
 3. Les cassettes C-120 ne sont pas recommandées car elles sont enclins à de mauvais fonctionnements.
- Mise en place d'une cassette**
1. Appuyez sur la touche éjection (▲) pour ouvrir le porte-cassette.
 2. Mettre en place une cassette comme montré.
 3. Fermer le porte-cassette en le pressant légèrement. S'assurer d'entendre le son du clic indiquant que le porte-cassette est fermé correctement.



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.

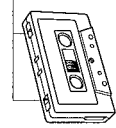
Auto tape select mechanism
This unit has an Auto Tape Select mechanism which distinguishes between different types of tape using detection holes in the cassette. After the type of tape has been detected, bias and equalization suitable for the tape are set.

- Cassettes with detection holes:**
- CrO₂ (chrome) tape (EQ: 70 µs) Type IV
 - CrO₂ (chrome) tape (EQ: 70 µs) Type I
 - Normal tape (EQ: 120 µs) Type I

Note:
If the power is disconnected during the transport of the tape, it may be impossible to remove the cassette. If this happens, connect the power again before attempting to remove the cassette.

Mechanism of automatic selection of the tape
This unit has an automatic selection 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:**
- CrO₂ (chrome) tape (EQ: 70 µs) Type IV
 - CrO₂ (chrome) tape (EQ: 70 µs) Type I
 - Normal tape (EQ: 120 µs) Type I



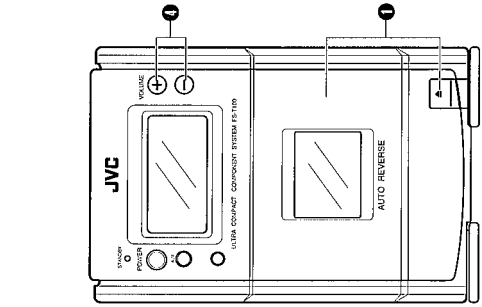
Remarque:
Si l'alimentation est coupée alors que la bande est en transport, il peut être impossible de retirer la cassette. Dans ce cas, relier l'alimentation avant d'essayer de retirer la cassette.

Mécanisme de sélection automatique de bande
Cet appareil possède un mécanisme de sélection automatique de bande qui reconnaît différents 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:**
- Cassettes avec trous de détection: CrO₂ (chrome) (EQ: 70 µs) Type IV
 - Cassettes sans trous de détection: CrO₂ (chrome) (EQ: 70 µs) Type I
 - Bande normale (EQ: 120 µs) Type I

CASSETTE PLAYBACK

Operate in the order shown

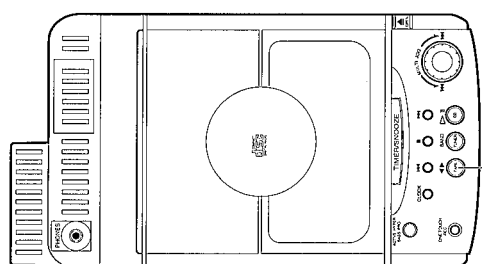


Opere en el orden mostrado

REPRODUCCION DE CASSETTES

LECTURE DE CASSETTE

Procéder dans l'ordre indiqué



- 1 Load a cassette tape.
- 2 Press to start playback. (The power is on and the TAPE mode is engaged.)
- 3 Select the reverse mode (◀ ▶ / ▶ ▶).
- 4 Adjust.

- After loading a cassette tape, simply press the TAPE button (▶ ▶) to start playback.
- Press the TAPE button (▶ ▶) to select the playback direction. (To select the reverse direction, press the TAPE button.)

- When the tape plays back with the reverse mode set to ▶ ▶ (single side play) or ▶ ▶ (both side play) mode, the tape stops automatically at the end of the tape after playing one or both sides. When the tape is in ▶ ▶ (continuous play) mode, the tape continuously plays one side after the other until you stop operation.

- 1 Coloque un cassette de cinta.
- 2 Presione para iniciar la reproducción. (Se enciende la alimentación y se activa el modo TAPE.)
- 3 Seleccione el modo de inversión (◀ ▶ / ▶ ▶).
- 4 Ajuste.

- Después de colocar un cassette de cinta, simplemente presione el botón TAPE (▶ ▶) para iniciar la reproducción.
- Presione el botón TAPE (▶ ▶) para seleccionar la dirección de reproducción. (Para seleccionar el sentido de reproducción, presione el botón TAPE.)

- 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), la cinta se detiene automáticamente al fin de la cinta o al fin de cada lado. Cuando se activa el modo de inversión en el modo ▶ ▶ (reproducción continuada), la cinta es reproducida continuamente de ambos lados hasta que usted pare la operación.

- 1 Charger une cassette.
- 2 Appuyez sur la touche ▶ ▶ pour lancer la lecture de la bande.
- 3 Sélectionner le mode d'inversion (◀ ▶ / ▶ ▶).
- 4 Régler.

- Après chargement d'une cassette, appuyez simplement sur la touche TAPE (▶ ▶) pour commencer la lecture. (Pour sélectionner le sens de lecture, appuyez sur la touche TAPE.)
- Le changement de sens de défilement peut être vérifié avec l'indicateur (◀ ▶ ou ▶ ▶) de sens de défilement de la bande.

- Quand la bande est lue avec le mode d'inversion réglé sur ▶ ▶ (lecture d'une seule face) ou ▶ ▶ (lecture des deux faces), la bande s'arrête automatiquement à la fin après avoir lu une face ou les deux. Lorsque le mode d'inversion est réglé sur le mode ▶ ▶ (lecture continue), la bande sera lue en continu une face après l'autre jusqu'à ce que vous arrêtez l'opération.

How to fast-wind tapes

1. Press the TAPE (▶ ▶) button (to set TAPE mode).
2. Press the ▶ or ▶ ▶ button.
- A tape can be fast-wound in either tape playback direction, and when it reaches the end of a side, it stops automatically.

Método para avanzar/rebobinar rápido la cinta

1. Presione el botón TAPE (▶ ▶) para activar el modo TAPE.
2. Presione el botón ▶ o ▶ ▶.
- La cinta puede ser bobinada rápidamente en ambos sentidos de reproducción y cuando llega al fin de un lado, para automáticamente.

Comment enrouler rapidement des bandes

1. Appuyer sur la touche TAPE (▶ ▶) pour passer en mode TAPE.
2. Appuyer sur la touche ▶ ou ▶ ▶.
- Une bande peut être enroulée rapidement dans un sens ou l'autre, et quand elle atteint la fin d'une face, elle s'arrête automatiquement.

• All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, store the stations again.

Preset tuning

• The stations must be preset before this operation can be performed.

Using the main unit

- 1 Press the TUNER/BAND button.
- 2 Select the band using the TUNER/BAND button.
- 3 Press the required preset station button (No. 1 - No. 10 and +10).

Using the remote control unit

- 1 Press the TUNER/BAND button.
- 2 Select the band using the TUNER/BAND button.
- 3 Press the required preset station button (No. 1 - No. 10 and +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas (see page 6)

FM: Connect the provided FM wire antenna.
AM: Adjust the position of AM loop antenna.

RECORDING



- 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 C and CR tapes. Normal C and CR tapes have different characteristics from metal tapes.

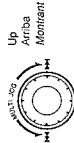
• Todas las estaciones presintonizadas se borran cuando se desconecta el cordón de alimentación u ocurre un corte de energía por más de 24 horas. En tales casos, almacene las estaciones otra vez.

Presintonización

• Las estaciones deben ser presintonizadas antes de que se pueda ejecutar esta operación.

Utilizando la unidad principal

- 1 Presione el botón TUNER/BAND.
- 2 Seleccione la banda utilizando el botón TUNER/BAND.
- 3 Presione la estación presintonizada deseada, gire el dial MULTI JOG.



Utilizando la unidad de control remoto

- 1 Presione el botón TUNER/BAND.
- 2 Seleccione la banda utilizando el botón TUNER/BAND.
- 3 Presione los botones (No. 1 - No. 10 y +10) de la estación presintonizada deseada.
- En el visor aparecen el número de estación presintonizada y la frecuencia correspondiente al botón presionado.

Utilización de antenas (ver página 6)

FM: Conecte la palapa de antena FM cable.
AM: Ajuste la posición de la antena de cuadro de AM.

GRABACION

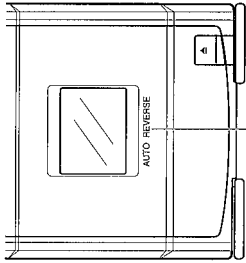
- Durante la grabación, el circuito ALC (control automático de nivel) optimiza automáticamente el nivel de grabación, haciendo innecesario el ajuste manual del nivel de grabación.
- Verifique que la lengüeta de seguridad del cassette de cinta no esté rota.

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

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 cassette with side A facing out. (Wind recording) and close the CD holder.
- 2 Set to the CD mode.
- 3 Press the CD button to set stop mode.
- 4 Select the required reverse mode (↔ or ↔↔).
- When programmed play is required, program the required tracks using the remote control. (See page 19).
- Select tracks with a total playing time which is less than 4 seconds.
- 5 Press the ONE TOUCH REC button; synchronized recording will start. (The recording indicator lights up.)

- Recording starts in the forward direction and CD play starts automatically.

- After the CD player has played the entire CD or programmed tracks, the deck stops automatically.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- To stop recording in the middle, press the button. The cassette deck also stops after 4 seconds.

Note:
During CD synchro recording, the SEARCH (↔↔, ↔↔) buttons and MULTI JOG dial do not function.

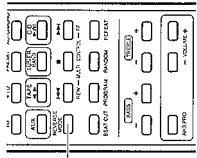
When non-recorded section between tunes is not required ...
1 Press the ↔↔ button twice.
2 Press the ONE TOUCH REC button to start recording.

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

Grabación sincronizada con el reproductor de CD

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

Opere en el orden mostrado



- 1 Coloque un cassette con el lado A apuntando hacia afuera. (Bobine hasta el extremo no grabable de la cinta antes de iniciar la grabación.) Cierre el portacinta.
- 2 Active el modo de CD.
- 3 Presione el botón ■ para activar el modo de parada.
- 4 Seleccione el modo de inversión deseado (↔↔ o ↔↔↔).
- Cuando desea la reproducción programada, programe las pistas deseadas usando el controlador remoto. (Ver página 19).
- Seleccione las pistas con un tiempo total de reproducción que no exceda la longitud de la cinta.
- 5 Presione el botón ONE TOUCH REC, se inicia la grabación sincronizada. (Se enciende la luz indicadora de grabación.)

- La grabación se inicia hacia adelante y se inicia automáticamente la reproducción del CD.

- Después de que el reproductor de CD termina de reproducir todo el CD o las pistas programadas, la platina se detiene automáticamente.
- En la cinta quedan automáticamente sin grabar secciones de 4 segundos aprox.
- Para parar la grabación en la mitad, presione el botón (■). La platina de cassette también para después de transcurridos 4 segundos.

Note:
• Durante la grabación sincronizada de CD, los botones ↔↔, SEARCH (↔↔, ↔↔) y disco MULTI JOG no funcionan.

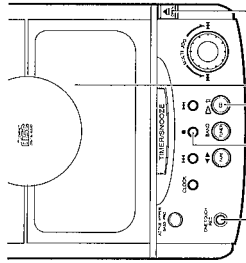
Cuando no es necesario dejar espacios sin grabar entre músicas...
1 Presione dos veces el botón ↔↔.
2 Presione el botón ONE TOUCH REC para iniciar la grabación. Presione el botón ONE TOUCH REC.

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

Enregistrement synchronisé avec le lecteur CD

- Dans ce système, le lecteur CD commence la lecture quand la platine à cassette passe en mode d'enregistrement.

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.) Cacher le CD et fermer le porte CD. (L'alimentation est mise en marche.)
- 2 Régler en mode CD.
- 3 Appuyer sur la touche ■ pour passer en mode d'arrêt.
- 4 Sélectionner le mode d'inversion requis (↔↔ ou ↔↔↔).

- Lorsque la lecture programmée est requise, programmer les pistes requises à l'aide du contrôleur à distance. (Voir page 19).
- Sélectionner les pistes avec une durée de lecture totale qui n'exécède pas la longueur de la bande.
- 5 Appuyer sur la touche ONE TOUCH REC; l'enregistrement synchronisé commencera. (L'indicateur d'enregistrement s'allume.)

- L'enregistrement commence dans le sens avant et la lecture CD commence automatiquement.

- Après la lecture du disque ou des pistes programmées, la platine s'arrête automatiquement.
- Des sections non enregistrées d'environ 4 secondes restent automatiquement laissées entre les morceaux.
- Pour arrêter l'enregistrement au milieu, appuyer sur la touche d'arrêt/annulation (■). La platine à cassette s'arrête également au bout de 4 secondes.

Remarque:
• Pendant l'enregistrement synchro CD, les touches ↔↔, SEARCH (↔↔, ↔↔) et le cadran MULTI JOG ne fonctionnent pas.

Quand des sections non enregistrées entre les morceaux ne sont pas nécessaires ...
1 Appuyer deux fois sur la touche ↔↔.
2 Appuyer sur la touche ONE TOUCH REC pour lancer l'enregistrement.

Remarque:
• En fonction du disque utilisé, des sections non enregistrées de différentes longueurs peuvent être laissées entre les morceaux.

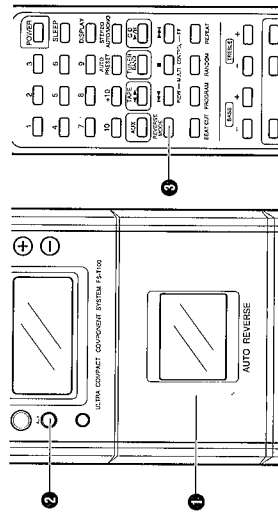
- **CD complete recording function (Synchro recording mode only)**
In the tape is reversed while a CD is being recorded. The recording is done on the reverse side of the tape.

- When less than 12 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 previous track.
- When more than 12 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.

- **To record one track**
1. Reproduce the tape. Then pressing the ONE TOUCH REC button, the recording mode will start. When the beginning of the track and enter the one track recording mode. After the recording is finished, the CD player and cassette deck both stop.

Recording from the radio or an external source connected to the AUX terminals

Operate in the order shown



- 1 Load a cassette with side A facing out. (Wind past the tape leader before starting recording.)
- 2 Select the source to be recorded. TUNER: Tune to the required station. AUX: Press the AUX button.
- 3 Select the required reverse mode (← or →).
- 4 Press the ONE TOUCH REC button.

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 cases, 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 → CUT-4

Botón BEAT CUT (utilizando la unidad de control remoto)

Cuando graba una radiodifusión de AM, es posible que se produzcan ruidos que no se escuchan al escuchar la radiodifusión. En tales casos, ajuste este botón después de activar el modo de grabación de la cinta, para eliminar los ruidos. Normalmente, ajuste este botón en "CUT-1".

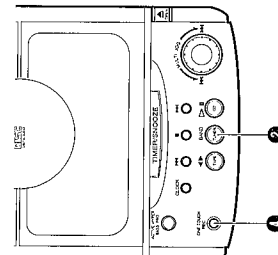
- **Función de grabación del CD completo (modo de grabación sincronizada exclusivamente)**
Si la cinta es invertida mientras el CD está siendo reproducido, la grabación se realizará en el lado opuesto de la cinta, de la banda de la grabación.

- Cuando se hayan grabado menos de 12 segundos de la última música en el lado frontal de la cinta, la grabación del otro lado se iniciará desde el principio de la pista anterior.
- Cuando se hayan grabado más de 12 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.

- **Grabación de una sola pista**
Reproduzca la pista a ser grabada. Luego presione el botón ONE TOUCH REC. Ubique el principio de la pista. Coloque el modo de grabación de una sola pista. Después de terminar la grabación, el reproductor de CD y la plina de cassette paran.

Grabación desde la radio o desde una fuente externa conectada a los terminales AUX

Opere en el orden mostrado



- 1 Coloque una cassette con el lado A apuntado hacia afuera. (Bobine hasta pasar extremo no grabable de la cinta antes de iniciar la grabación.)
- 2 Seleccione la fuente a ser grabada. TUNER: Sintonice la estación deseada. AUX: Presione el botón AUX.
- 3 Seleccione el modo de inversión deseado (← o →).
- 4 Presione el botón ONE TOUCH REC.

- **Función 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 inversée de la bande, de la façon suivante:

- Si moins de 12 secondes du dernier morceau enregistré ont été enregistrés, l'enregistrement début de la piste précédente.
- Si plus de 12 secondes du dernier morceau enregistré, l'enregistrement sur l'autre face de la bande commencera à partir du début de la piste courante.

- **Pour enregistrer une piste**
Lire la piste à enregistrer. Puis une pression sur le bouton ONE TOUCH REC. Localiser le début de la piste et faire passer le mode d'enregistrement d'une seule piste. Une fois l'enregistrement terminé, le lecteur CD et la plaine à cassette s'arrêtent tous les deux.

Enregistrement à partir de la radio ou d'une source externe branchée aux bornes AUX

Procéder dans l'ordre indiqué



- 1 Chargez une cassette avec la face A vers l'extérieur. (Enrouler la bande guide avant de commencer l'enregistrement.)
- 2 Sélectionnez la source à enregistrer. TUNER: Sintoniser la station voulue. AUX: Appuyez sur la touche AUX.
- 3 Sélectionnez le mode d'inversion requis (← ou →).
- 4 Pressez la touche ONE TOUCH REC.

Touche BEAT CUT (en utilisant la télécommande)

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

Erasing

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

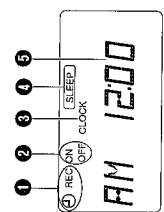
To erase a tape without making a new recording...

1. Press the TAPE (←▶) button to set to the TAPE mode.
2. Press the ONE TOUCH REC button.

It should be noted that it may be unlawful to copy or reproduce recorded tapes, records, or discs without the written consent of the copyright owner. In any case, the user agrees to indemnify and hold harmless the manufacturer, distributor, and retailer, and any other person, from and against all claims, damages, and expenses, including reasonable attorneys' fees, which may be asserted against or incurred by the manufacturer, distributor, or retailer, in connection with the use of the product in any way not intended by the manufacturer.

CLOCK ADJUSTMENT

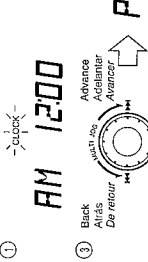
Names of parts in the clock/timer section, and their functions:



- 1 Indicator of the clock mode (ON/OFF)
- 2 Indicator of the clock mode (ON/OFF)
- 3 Indicator of the clock mode (ON/OFF)
- 4 Indicator of the clock mode (ON/OFF)
- 5 Indicator of the clock mode (ON/OFF)
- 6 Indicator of the clock mode (ON/OFF)
- 7 Indicator of the clock mode (ON/OFF)
- 8 Indicator of the clock mode (ON/OFF)

Setting the current time (when this unit is used for the first time)

(Example: To set the clock to PM 1:15.)



One hour is advanced/moved back every 2 clicks. L'horloge avance/recule d'une heure à chaque paire de clics.

- 1 Connect the AC power cord; "CLOCK" will blink in the display.
- 2 Press the CLOCK button for 2 seconds or more.
- 3 Set to PM 1:15 using the MULTI JOG Dial and CLOCK button.

Effacement

Une bande enregistrée peut être effacée en enregistrant du nouveau matériel sur la bande précédente.

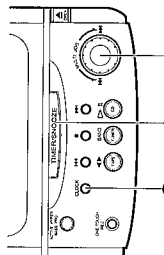
Pour effacer une bande sans faire de nouvel enregistrement...

1. Appuyez sur la touche TAPE (←▶) pour passer en mode TAPE.
2. Appuyez sur la touche REC.
3. Introduisez la cassette avec la face à effacer tournée vers l'extérieur.
4. Appuyez deux fois sur la touche ONE TOUCH REC.

Il peut être illégal d'enregistrer ou de copier des enregistrements sans le consentement du détenteur des droits d'auteur.

REGLAGE DE L'HORLOGE

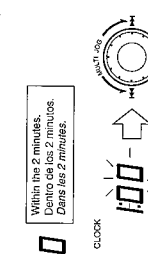
Noms des pièces dans la section horloge/minuterie, et leurs fonctions:



- 1 Indicateur de mode de minuterie (ON/OFF)
- 2 Indicateur de mode de minuterie (ON/OFF)
- 3 Indicateur de mode de minuterie (ON/OFF)
- 4 Indicateur de mode de minuterie (ON/OFF)
- 5 Indicateur de mode de minuterie (ON/OFF)
- 6 Indicateur de mode de minuterie (ON/OFF)
- 7 Indicateur de mode de minuterie (ON/OFF)
- 8 Indicateur de mode de minuterie (ON/OFF)

Réglage de l'heure courante (Lorsque l'appareil est utilisé pour la première fois)

(Exemple: Pour régler l'horloge sur PM 1:15.)



Une minute est avancée/reculée back every 2 clics. L'horloge avance/recule d'une minute à chaque paire de clics.

- 1 Raccordez le cordon d'alimentation secteur; "CLOCK" clignotera dans l'affichage.
- 2 Appuyez sur la touche CLOCK pendant 2 secondes ou plus.
- 3 Réglez sur PM 1:15 en utilisant la molette MULTI JOG et la touche CLOCK.

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

● **Regler l'heure de fin.**
(Exemple: Pour régler l'heure de fin de la minuterie sur PM 1:15.)

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

● **Regler l'heure de fin.**
(Exemple: Pour régler l'heure de fin de la minuterie sur PM 1:15.)

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

● **Regler l'heure de fin.**
(Exemple: Pour régler l'heure de fin de la minuterie sur PM 1:15.)

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

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(Exemple: Pour régler l'heure de fin de la minuterie sur PM 1:15.)

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

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

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

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

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(Exemple: Pour régler l'heure de fin de la minuterie sur PM 1:15.)

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

● **Regler l'heure de fin.**
(Exemple: Pour régler l'heure de fin de la minuterie sur PM 1:15.)

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

● **Regler l'heure de fin.**
(Exemple: Pour régler l'heure de fin de la minuterie sur PM 1:15.)

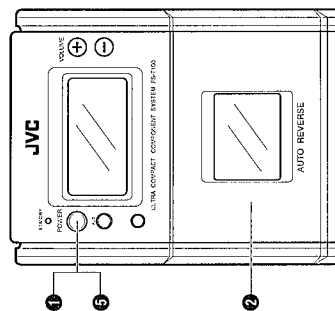
● **Set the stop time.**
(Example: To set the timer stop timer to PM 1:15.)

● **Regler l'heure de fin.**
(Exemple: Pour régler l'heure de fin de la minuterie sur PM 1:15.)

Timer recording of broadcast

- The current time must be set before the timer can be used.
- After setting the safety tabs of the cassette have not been broken off.

Operations



- Set the POWER button to ON.
- Load a cassette.

- Insert the cassette with the side to be recorded facing out.
- Select the required reverse mode, (← or →) and press the timer button.
- Set the timer. (Refer to "Setting the timer" on page 29).
- Set the timer about a minute before the broadcast to be recorded is scheduled to start.
- Tune to the station to be recorded. (Refer to page 29).
- Set the POWER button to STANDBY.

- Timer recording will start at timer start time and the power will be switched off at timer stop time. (The timer mode is then released.)

- To cancel timer operation Press the TIMERSNOOZE button for more than 2 seconds so that the timer mode indicator (C) goes out.

If you do this, timer recording will not start at the timer start time.

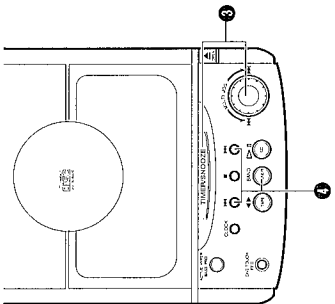
Notes:

- Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer start and stop times, check that the timer is tuned to the required frequency.
- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

Grabación por temporizador de una radiodifusión

- Antes de utilizar el temporizador es necesario ajustar la hora actual.
- Después de ajustar las langüetas de seguridad del cassette no están rotas.

Operaciones



- Coloque el botón POWER en ON.
- Coloque un cassette.

- Introduzca la cassette con la cara a ser grabada apuntando hacia afuera.
- Seleccione el modo de inversión deseado.
- Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 29).
- Ajuste el temporizador a un minuto aproximadamente antes del comienzo programado de la radiodifusión a ser grabada.
- Sintonice la estación a ser grabada.
- Coloque el botón POWER en STANDBY.

- La grabación por temporizador se iniciará en la hora de activación del temporizador y la unidad desconecta la alimentación a la hora de parada del temporizador. (Luego se desactiva el modo de temporizador.)

- Cancelación de la operación por temporizador Presione el botón TIMERSNOOZE durante más de 2 segundos para borrar el indicador de modo de temporizador (C).

Si usted hace esto, la grabación por temporizador no comenzará a la hora de activación del temporizador.

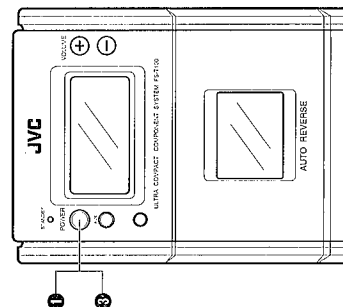
Notes:

- Una vez ajustado el temporizador, la hora de activación y desactivación, etc., son registradas en memoria. Cuando se desea efectuar una grabación o reproducción por temporizador a horas diferentes, es necesario ajustar otra vez el temporizador.
- Después de ajustar la hora de activación y desactivación, etc., del temporizador, si se desconecta el cable de alimentación o si hay un corte de energía, los ajustes del temporizador se borran de la memoria. Si ocurre esto, ajuste la hora actual y ajuste el temporizador otra vez.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations



- Set the POWER button to ON.
- Set the timer. (Refer to "Setting the timer" on page 29).

- Coloque el botón POWER en ON.
- Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 29).

Source sound Fuente de sonido	Timer mode Modo de temporización	Operations Operaciones
CD play Reproducción de CD	CD	Load a disc. Carga un disco.
Tape playback Reproducción de una cinta	TAPE	Load a cassette tape. Carga una cinta de cassette.
Broadcast Radiodifusión	TUNER	Tune to the required station. Sintonice la estación deseada.

- Set the POWER button to STANDBY.

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. (The timer mode is then released.)

- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

To cancel timer operation

- Press the TIMERSNOOZE button for more than 2 seconds so that the timer mode indicator (C) goes out.

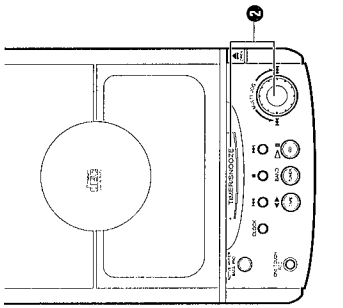
Notes:

- When the volume setting is set to "VOLUME" (volume level is not specified), the timer playback is set to the level used before setting the time.
- To stop during timer playback, press the POWER button to switch the unit off.

Reproducción por temporizador

- La reproducción por temporizador de cintas, radiodifusiones, y CD es posible.

Operaciones



- Coloque el botón POWER en ON.
- Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 29).

- Régler la touche POWER sur marche.
- Régler la minuterie. (Se référer à "Réglage de la minuterie" à la page 29).

Source sound Fuente de sonido	Timer mode Modo de temporización	Operations Operaciones
CD play Reproducción de CD	CD	Load a disc. Carga un disco.
Tape playback Reproducción de una cinta	TAPE	Load a cassette tape. Carga una cinta de cassette.
Broadcast Radiodifusión	TUNER	Tune to the required station. Sintonice la estación deseada.

- Set the POWER button to STANDBY.

- La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconecta a la hora de parada del temporizador. (Luego se desactiva el modo de temporizador.)

- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

To cancel timer operation

- Press the TIMERSNOOZE button for more than 2 seconds so that the timer mode indicator (C) goes out.

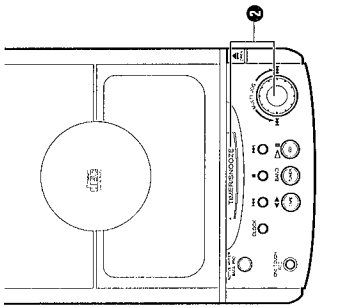
Notes:

- When the volume setting is set to "VOLUME" (volume level is not specified), the timer playback is set to the level used before setting the time.
- To stop during timer playback, press the POWER button to switch the unit off.

Lecture par minuterie

- La lecture par minuterie de bandes, émissions et de CD est possible.

Fonctionnement



- Coloque el botón POWER en ON.
- Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 29).

- Régler la touche POWER sur marche.
- Régler la minuterie. (Se référer à "Réglage de la minuterie" à la page 29).

Source sound Fuente de sonido	Timer mode Modo de temporización	Operations Operaciones
CD play Reproducción de CD	CD	Load a disc. Carga un disco.
Tape playback Reproducción de una cinta	TAPE	Load a cassette tape. Carga una cinta de cassette.
Broadcast Radiodifusión	TUNER	Tune to the required station. Sintonice la estación deseada.

- Set the POWER button to STANDBY.

- La lecture par minuterie commencera à l'heure de mise en marche de la minuterie et l'alimentation sera coupée à l'heure de mise en arrêt de la minuterie.

- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

To cancel timer operation

- Press the TIMERSNOOZE button for more than 2 seconds so that the timer mode indicator (C) goes out.

Notes:

- When the volume setting is set to "VOLUME" (volume level is not specified), the timer playback is set to the level used before setting the time.
- To stop during timer playback, press the POWER button to switch the unit off.

MAINTENANCE

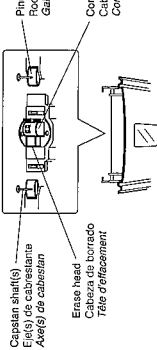
MANTENIMIENTO

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 quality deteriorates. Therefore, you should clean the heads, etc. after every 10 hours of use for optimal recording conditions.

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.



• For obtaining 5 minutes supplementary of sleep...

When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty, the quality deteriorates. Therefore, you should clean the heads, etc. after every 10 hours of use for optimal recording conditions.

Functionnement de la minuterie de sommeil (en utilisant la télécommande)

A. L'utiliser quand vous voulez vous endormir tout en écoutant une bande, une émission ou un disque

- 1. Régler la source voulue et synchroniser (pour une émission ou une cassette).
- 2. Appuyer sur la touche SLEEP pour régler la durée de sommeil.



• Les réglages de durée de sommeil de 30, 60, 90 ou 120 minutes peuvent être réglés. Quand vous relâchez la touche SLEEP, la source est affichée pendant 5 secondes.

• La minuterie de sommeil commencera et l'alimentation sera coupée après la durée spécifiée.

• Contrôle de la durée de sommeil. Quand la durée SLEEP est pressée, la durée de sommeil est réinitialisée. Si elle est pressée à nouveau, une nouvelle durée de sommeil peut être réglée.

• Pour annuler le fonctionnement de la minuterie de sommeil. Appuyer sur la touche POWER pour couper l'alimentation ou appuyer sur la touche SLEEP jusqu'à ce que l'indicateur de minuterie de sommeil disparaisse.

B. Pour vous endormir en écoutant une bande, une émission ou un CD et pour effectuer la lecture par minuterie le lendemain matin

- 1. Régler la minuterie. (Se référer à "Réglage de la minuterie" à la page 23.)
- 2. Régler sur la source voulue (émission, bande ou CD).
- 3. Appuyer sur la touche SLEEP pour régler la durée de sommeil.

Toutefois, quand la réception d'émission est sélectionnée pour la nuit, la minuterie de sommeil ne fonctionnera pas. Vérifiez que vous entendez la nuit sera synchronisée le matin suivant.

• Para dormir 5 minutos más...

Cuando se activa la reproducción por SNOOZE, se desconecta la alimentación y la reproducción por temporizador se reinicia 5 minutos después (función de siesta).

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

A. Utilícelo cuando desee dormir mientras escucha una cinta, radiodifusión o CD.

- 1. Ajuste la fuente deseada y sintonice (radiodifusión) o reproduzca (CD o cinta).
- 2. 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. Cuando usted suelta 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 la duración SLEEP es presionada, la indicación del tiempo restante. Si la presiona una vez, es posible establecer un nuevo período 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 desaparezca.

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

- 1. Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 23.)
- 2. Ajuste la fuente deseada (radiodifusión, cinta o CD).
- 3. Presione el botón SLEEP para ajustar la hora de desconexión del temporizador.

Source mode display (Releasing the sleep mode) Visualización del modo de fuente (Cancelación del modo de desconexión)

• To get an extra 5 minutes of sleep...

When playback starts, press the TIMER/SNOOZE button. After 5 minutes, the timer playback restarts after 5 minutes (snooze function).

Sleep timer operations (using the remote control unit)

A. Use this when you want to fall asleep while listening to a tape, broadcast or CD.

- 1. Set to the required source and tune (broadcast or tape).
- 2. Press the SLEEP button to set the sleep time.



• Sleep time settings of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 5 sec.

• 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. 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 23.)
- 2. Set to the required source (broadcast, tape or CD).
- 3. Press the SLEEP button to set the sleep time.

Source mode display (Releasing the sleep mode) Visualización del modo de fuente (Cancelación del modo de desconexión)

• 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.

However, when broadcast reception is selected for both sleep timer operation and timer playback, the station you heard at night will be tuned to the following morning.

Le nettoyage est important!

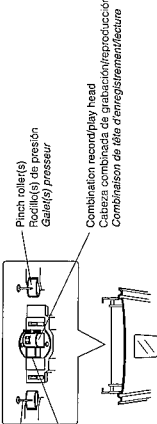
Quand la bande défile, de la poudre magnétique et de la poussière s'accumulent naturellement sur les têtes, le cabestan et le galet presseur. Quand ils sont trop sales...

- la qualité sonore se détériore.
- le niveau du son de sortie baisse.
- pas complètement effacé.
- l'enregistrement n'est pas satisfaisant.

C'est pourquoi, il est nécessaire de nettoyer les têtes, etc. toutes les 10 heures d'usage pour des conditions d'enregistrement optimales.

Nettoyage des têtes, du cabestan et du galet presseur

Ouvrir le porte cassette.
Nettoyer les têtes, le galet presseur et le cabestan.
Pour un nettoyage efficace, utiliser un kit de nettoyage en vente dans les magasins d'accessoires audio.
Après nettoyage, s'assurer que le fluide de nettoyage a complètement séché avant de charger une cassette.



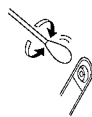
Précautions:

- 1. Garder les aimants et objets métalliques éloignés de la tête. Si la tête devient magnétisée, du bruit augmentera et la tonalité se détériorera. Démagnétiser la tête toutes les 20 à 30 heures d'utilisation avec un effaceur de tête (en vente dans les magasins d'accessoires audio).
- 2. Ne pas utiliser autre chose que de l'alcool pour le nettoyage. Les diluants ou la benzine endommageraient le galet presseur de caoutchouc.

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.

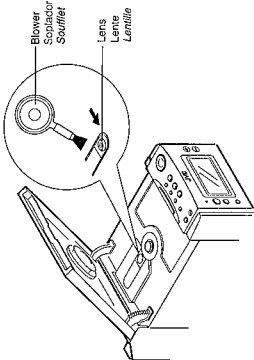
- Utiliser un soufflet (en vente dans les magasins d'accessoires audio) pour éliminer la poussière de la lentille.
- Dans le cas d'empreintes digitales, etc., sur la lentille, essuyer doucement avec un Cotton-lige.



Limpeza de la lente

Si la lente del lector de CD está sucia o manchada, etc., puede degradar el sonido. Abrir el compartimiento del CD y limpiar la lente como se muestra.

- Utilice un sopador (disponible en una tienda de artículos para el hogar) para quitar la lente.
- Si hay huellas digitales, etc., en la lente, límpielo suavemente con un soplo de algodón.



4. Location of Main Parts

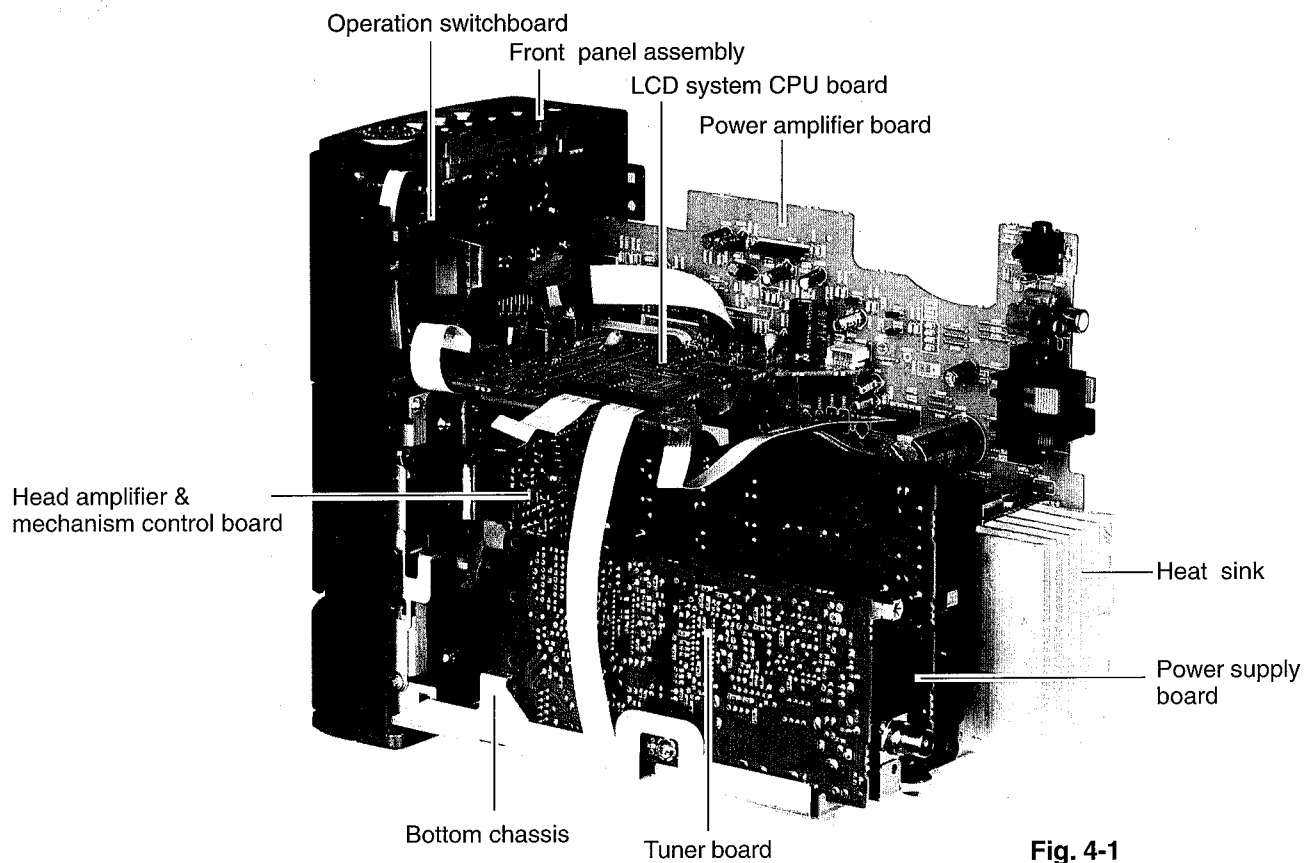


Fig. 4-1

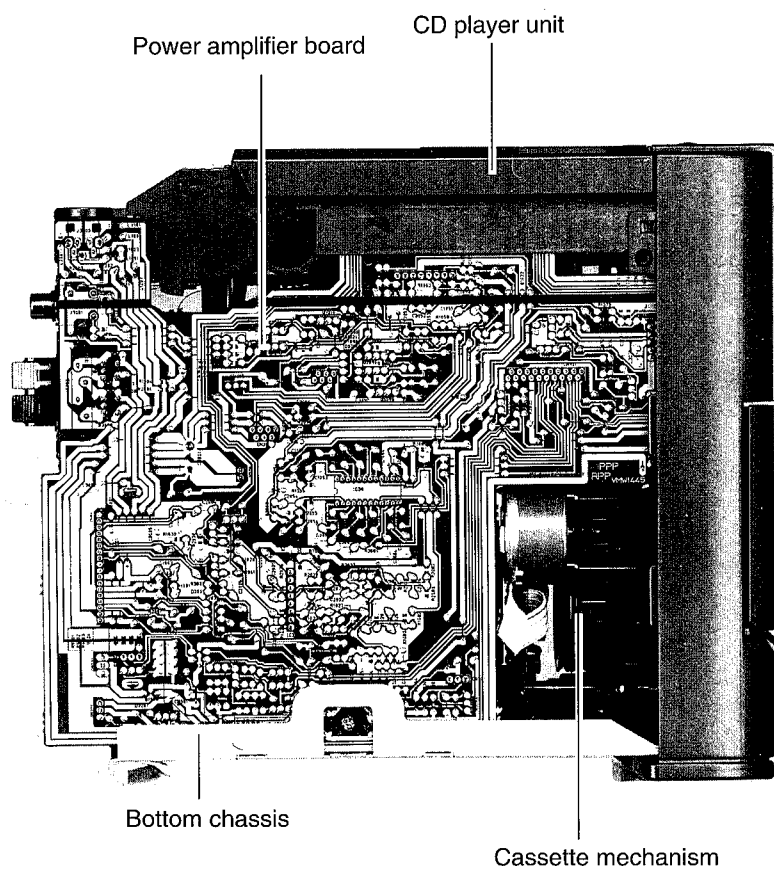


Fig. 4-2

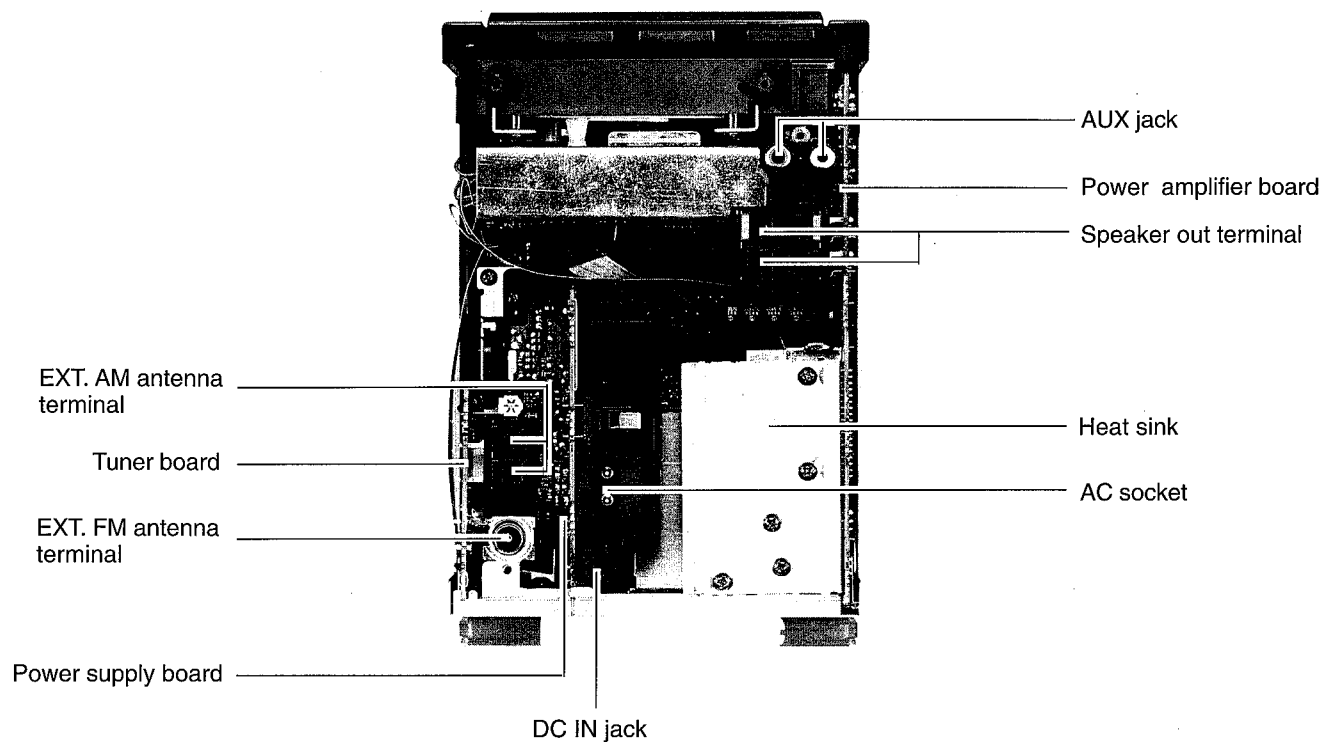


Fig. 4-3

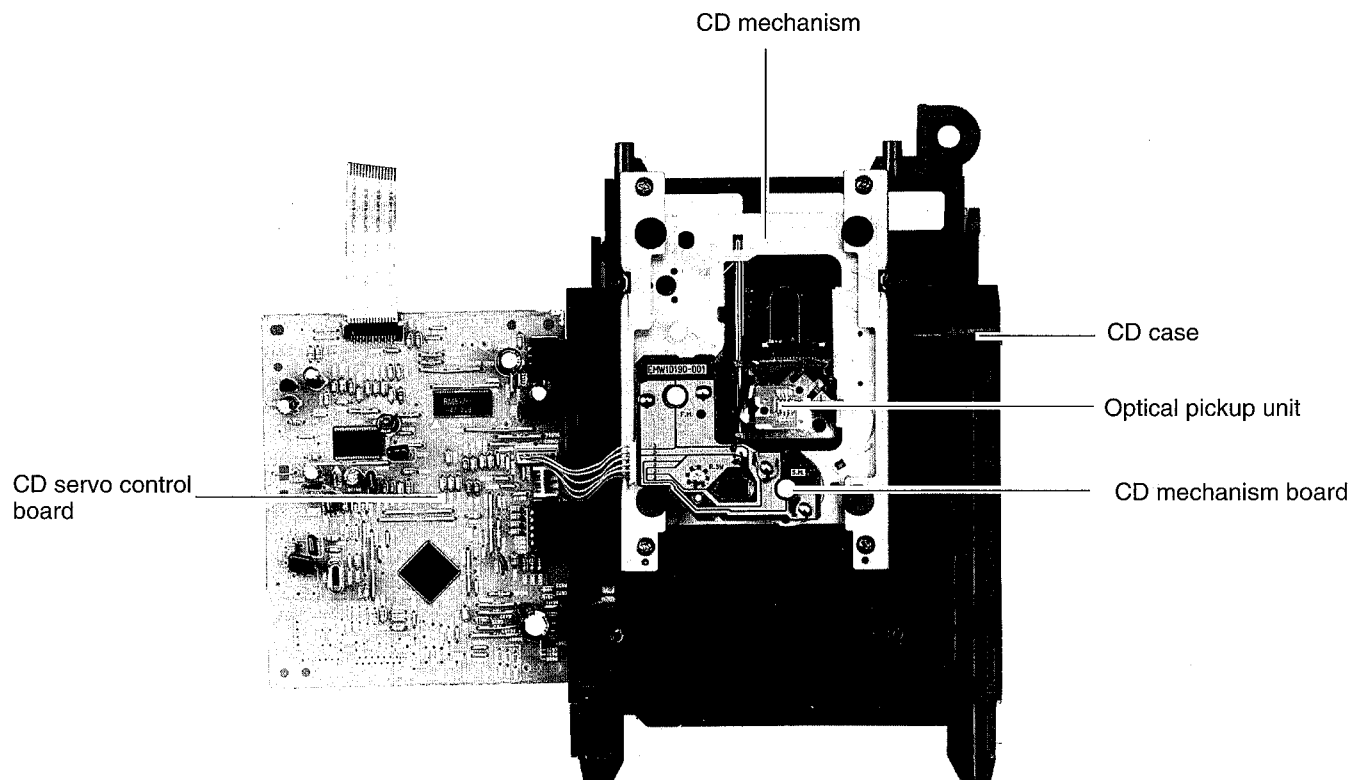


Fig. 4-4

5. Removal of Main Parts

■ Removing the rear panel

(See Figs. 5- 1 and 5- 2)

1. From behind the body, remove the seven screws ① retaining the rear panel (See Fig. 5- 1).
2. After turning the body upside down, remove the two screws ② retaining the rear panel (See Fig. 5- 2).
3. Take out the rear panel from behind the body.

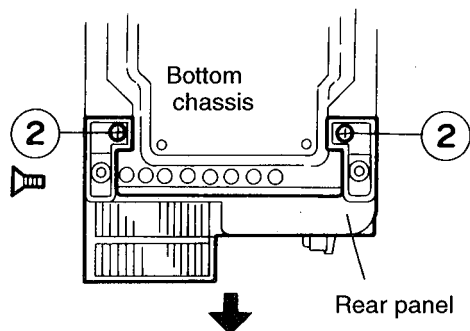


Fig. 5-2

■ Removing the side panels (L and R)

(See Figs. 5- 3 ~ 5- 6)

1. After turning the body upside down, remove the two screws ③ retaining the front cabinet assembly (See Fig. 5- 3).
2. After turning the body back to its initial position, open the CD door while pressing the upper [OPEN/CLOSE] button (See Fig. 5- 4).
3. While moving the side panel (L) in the arrow direction, remove the panel from the left side of the body (See Fig. 5- 5).
4. While moving the side panel (R) in the arrow direction, remove this panel from the right side of the body (See Fig. 5- 6).

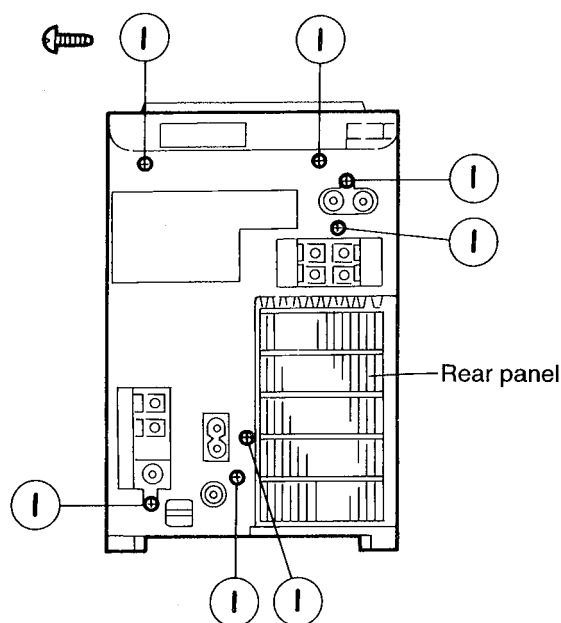


Fig. 5-1

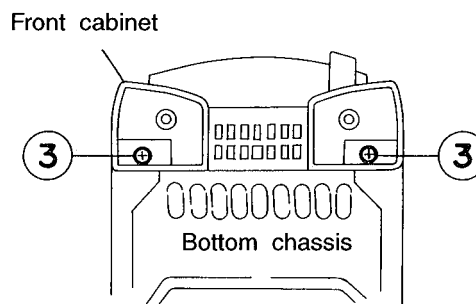


Fig. 5-3

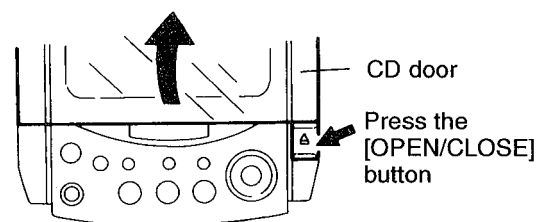


Fig. 5-4

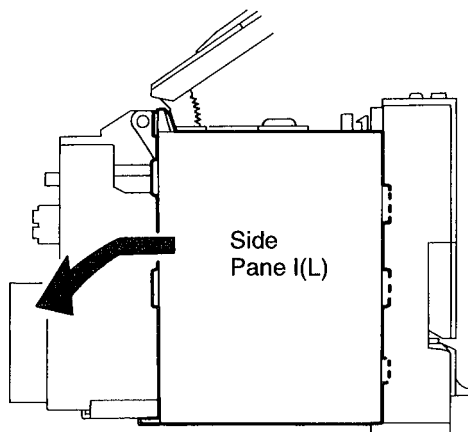


Fig. 5-5

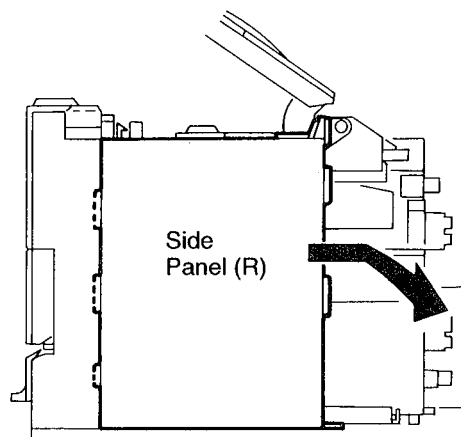


Fig. 5-6

■ Removing the CD player unit

(See Figs. 5-7 and 5- 8)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. From the connector CN603 on the CD servo control P. C. board, disconnect the card wire outgoing from the connector CN304 on the power amplifier P. C. board (See Fig. 5- 7).
4. Disengage the left and right engagements (a) and (b) fixing the CD player unit by using a minus screw driver, etc. (See Figs. 5-7 and 5- 8).

■ Removing the power amplifier P. C. board and heat sink (See Figs. 5- 9 and 5- 10)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the five screws (4) and (5) retaining the heat sink (See Fig. 5- 9).
5. From the connector CN303 on the power amplifier P. C. board, disconnect the card wire outgoing from the connector CN34 on the head amplifier & mechanism control P. C. board (See Fig. 5- 9).
6. From the connector CN901 on the power supply board, disconnect the connector wire outgoing from the connector W306 on the power amplifier P. C. board (See Fig. 5- 9).
7. Remove the one screw (6) retaining the power amplifier P. C. board (See Fig. 5- 10).
8. Remove the power amplifier P. C. board from the two connectors CN711 and CN712 on the LCD system CPU P. C. board (See Fig. 5- 9).
9. After removing the power amplifier P. C. board from the key way (c) on the bottom chassis, take this P. C. board out while raising it in the arrow direction (See Fig. 5- 10).

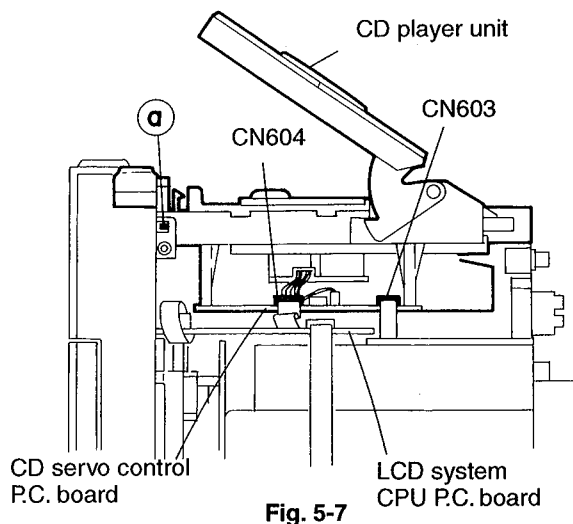


Fig. 5-7

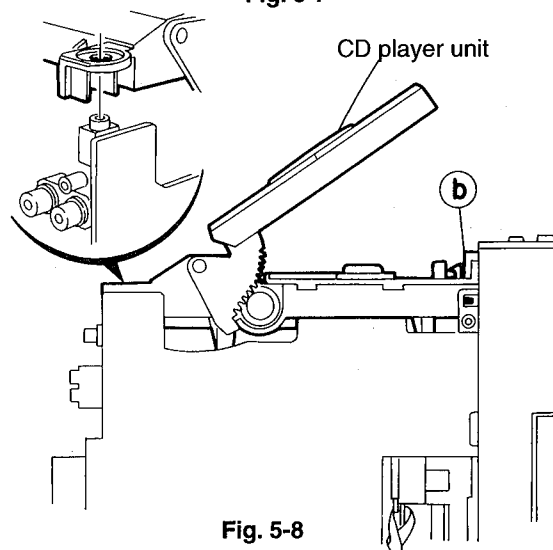


Fig. 5-8

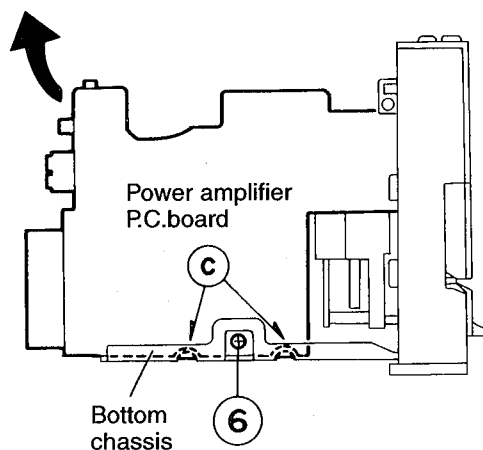


Fig. 5-10

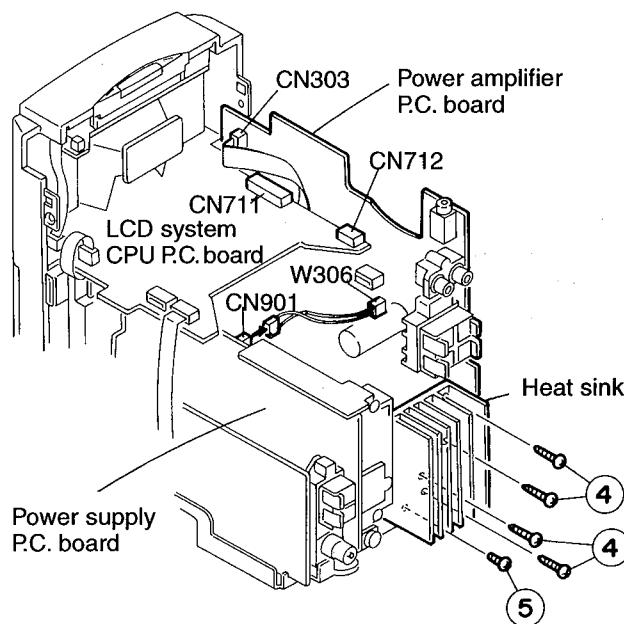


Fig. 5-9

■ Removing the tuner P. C. board

(See Fig. 5- 11)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. From the right side of the body, remove the one screw ⑦ retaining the tuner P. C. board.
5. From the connector CN1 on the tuner P. C. board, disconnect the card wire outgoing from the connector CN701 on the LCD system CPU P. C. board.

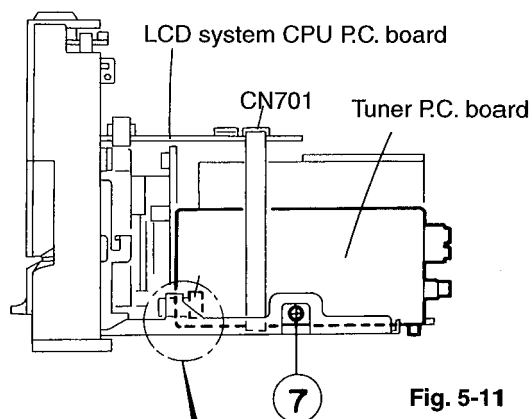


Fig. 5-11

■ Removing the front panel assembly

(See Fig. 5-12)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier P. C. board and head sink.
5. From the bottom of the body, disengage the engagement ④ fixing the front panel assembly in Fig. 5- 12 while pressing it with a minus screw driver, etc .

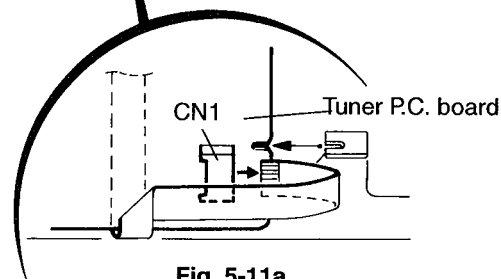


Fig. 5-11a

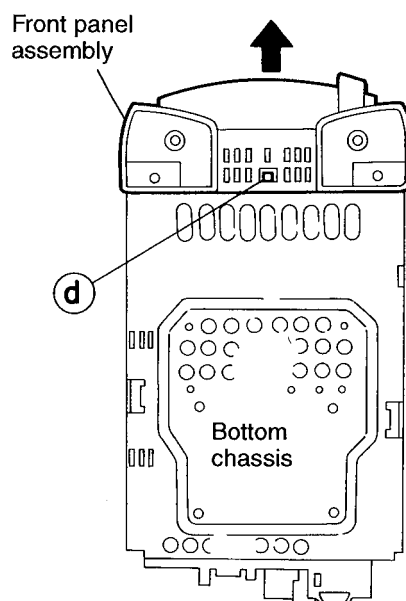


Fig. 5-12

■ Removing the power transformer and power supply P. C. board

(See Fig. 5- 13)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier P. C. board and heat sink.
5. Remove the tuner P. C. board.
6. Remove the four screws ⑧ retaining the power transformer and power supply P. C. board and the one screw ⑨ retaining the Jack holder.

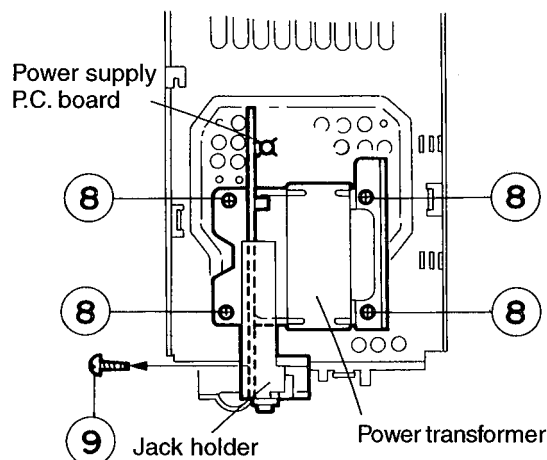


Fig. 5-13

■ Removing the cassette mechanism unit

(See Fig. 5-14)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the power amplifier P.C. board.
5. Remove the front panel assembly.
6. From inside the front panel assembly, remove the four screws (9) and (10) retaining the cassette mechanism unit.
7. From the connector CN33 on the head amplifier & mechanism control P.C. board, disconnect the card wire outgoing from the connector CN731 on the LCD system CPU P.C. board.

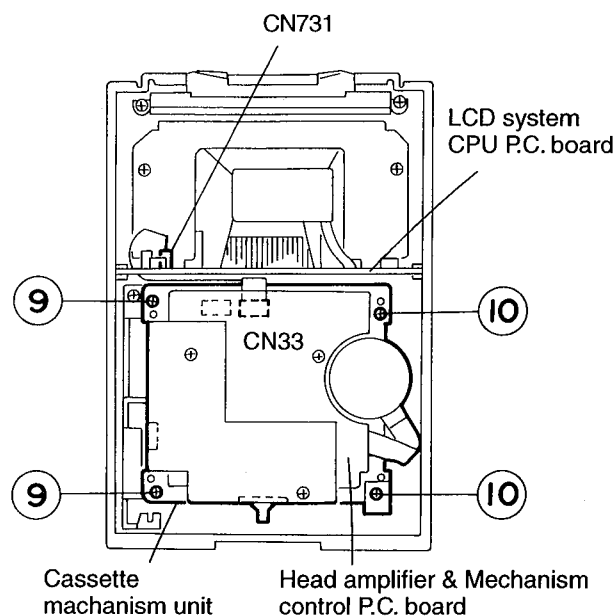


Fig. 5-14

■ Removing the function switch P.C. board and LCD system CPU P.C. board

(See Figs.5-15 and 5-16)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the front panel assembly.
5. Remove the cassette mechanism unit.
6. From inside the front panel assembly remove the two screws (11) retaining the operation switch P.C. board.
7. From the connector CN782 on the LCD system CPU P.C. board, disconnect the connector wire outgoing from the connector CN802 on the operation switch P.C. board.
8. While sliding the two engagements (e) fixing the LCD system CPU P.C. board, pull out this P.C. board.
9. After disconnect the connector CN801 on the function switch P.C. board from the connector CN781 on the LCD system CPU P.C. board, remove the respective P.C. boards while pulling them upward.

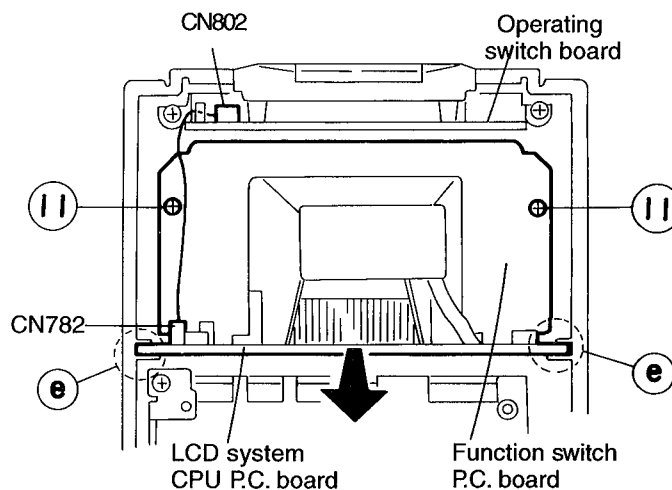


Fig. 5-15

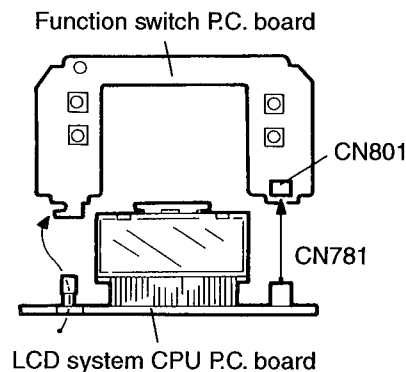


Fig. 5-16

■ Removing the operating switch P. C. board

(See Figs. 5- 17 and 5- 18)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. Remove the front panel assembly.
5. Remove the cassette mechanism unit.
6. Remove the front panel assembly.
7. Remove the LCD system CPU P. C. board.
8. Remove the two screws (12) retaining the operating switch P. C. board.
9. Remove the [MULTI-JOG] button.
10. Remove the [VOLUME] and [POWER/AUX] buttons.
11. Take out the standby LED lens.
12. After removing the four pawls (f) fixing the operating switch P. C. board, remove the switch while pulling it in the arrow direction.
13. Remove the two screws (13) retaining the operating switch P. C. board.
14. Remove the six pawls (g) fixing the operating switch P. C. board.

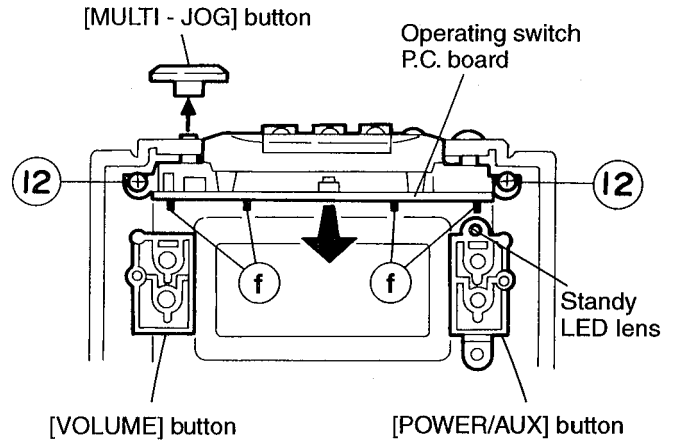


Fig. 5-17

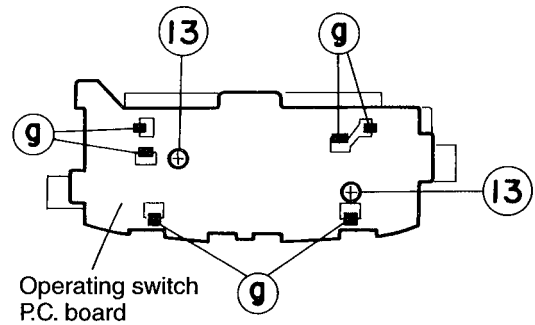


Fig. 5-18

<< Cassette Mechanism Section >>

■ Removing the Playback/Recording & Eraser Head

1. While shifting the trigger arms seen on the right side of the head mount in the arrow direction, turn the flywheel R in counterclockwise direction until the head mount has gone out with a click (See Fig. 5- 19).
2. When the flywheel R is rotated in counterclockwise direction, the playback/Recording & eraser head will be turned in counterclockwise direction from the position in Fig. 5-20 to that in Fig. 5-21 .
3. At this position, disconnect the flexible P.C. board (outgoing from the playback/Recording & eraser head) from the connector CN31 on the head amplifier & mechanism control P.C. board.
4. After dismantling the FPC holder, remove the flexible P.C. board.
5. Remove the flexible P.C. board from the chassis base.
6. Remove the spring (a) from behind the playback/Recording & eraser head.
7. Loosen the reversing azimuth screw retaining the playback/Recording & eraser head.
8. Take out the playback/Recording & eraser head from the front of the head mount.
9. The Playback/Recording & eraser head should also be removed similarly according to Steps 1 ~ 8 above.

■ Reassembling the Playback/Recording & Eraser Head

1. Reassemble the playback head from the front of the head mount to the position as shown in Fig. 5- 21.
2. Fix the reversing azimuth screw.
3. Set the spring (a) from behind the playback/Recording & eraser head.
4. Attach the flexible P.C. board to the chassis base, and fix it with the FPC holder as shown in Fig. 5- 21.
5. The Playback/Recording & eraser head should also be reassembled similarly according to Steps 1 ~ 4 above.

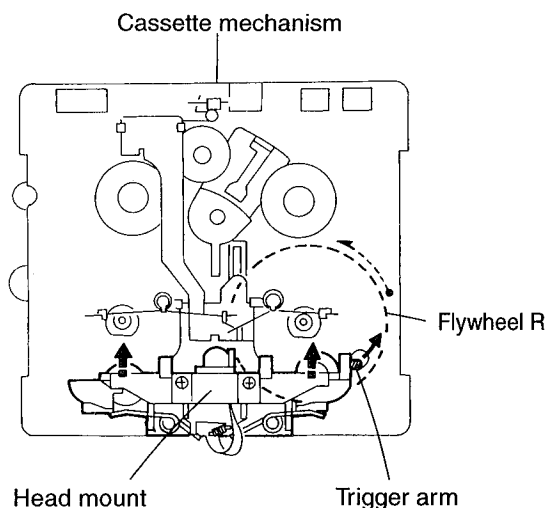


Fig. 5-19

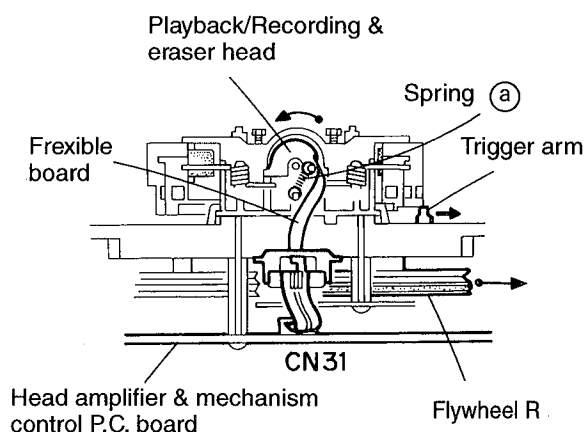


Fig. 5-20

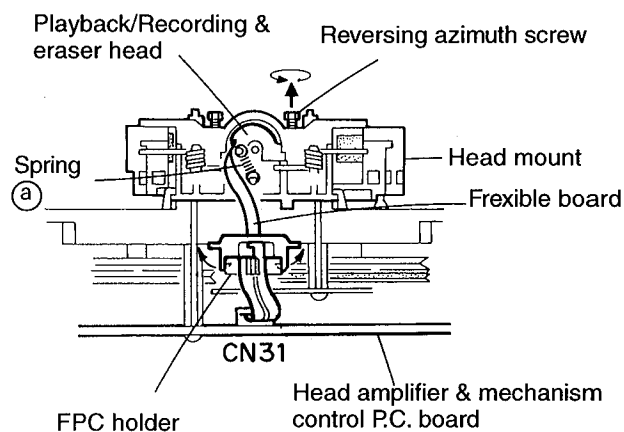


Fig. 5-21

■ Removing the Head Amplifier & Mechanism Control P.C. Board

(See Fig. 5- 22)

1. Remove the cassette mechanism assembly.
2. After turning over the cassette mechanism assembly, remove the three screws ① retaining the head amplifier & mechanism control P.C. board.
3. Disconnect the connector CN32 on the P.C. board including the connector CN1 on the reel pulse P.C. board.
4. When necessary, remove the 4 pin parallel wire soldered to the main motor.

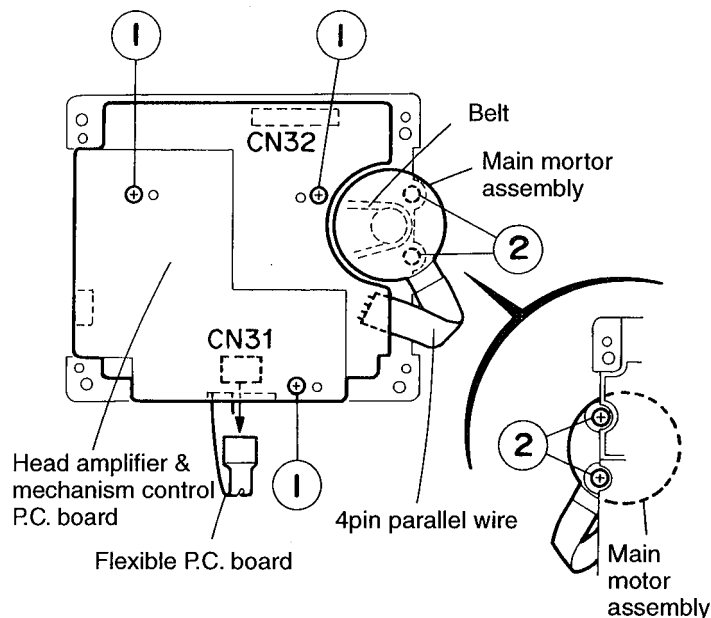


Fig. 5-22

■ Removing the Main Motor Assembly

1. Remove the two screws ② retaining the main motor assembly (See Fig. 5- 22, 22a).
2. While raising the main motor, remove the capstan belt from the motor pulley (See Fig. 5- 22a).

Caution 1: Be sure to handle the capstan belt so carefully that this belt will not be stained by grease and other foreign matter. Moreover, this belt should be hanged while referring to the capstan belt hanging method in Fig. 5- 23, 24.

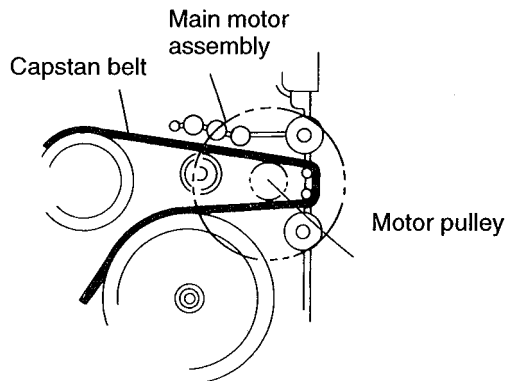


Fig. 5-22a

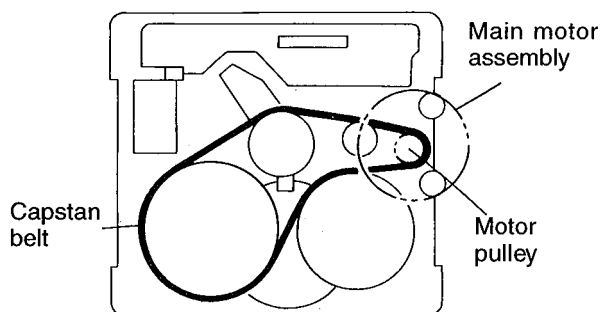


Fig. 5-23

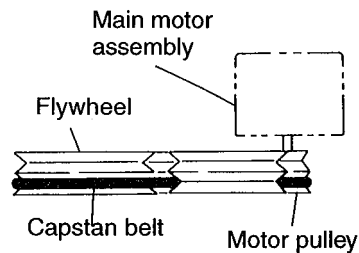


Fig. 5-24

■ Removing the Flywheel

(See Figs. 5- 25 and 5- 26)

1. Remove the head amplifier & mechanism control P.C. board.
2. Remove the main motor assembly.
3. After turning over the cassette mechanism, remove the slit washers (b) and (c) fixing the capstan shafts R and L, and pull out the flywheels R and L respectively from behind the cassette mechanism.

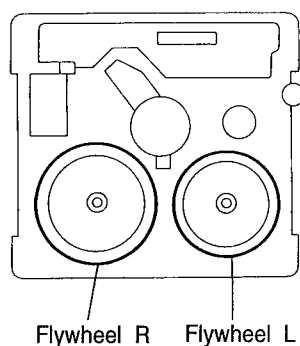


Fig. 5-26

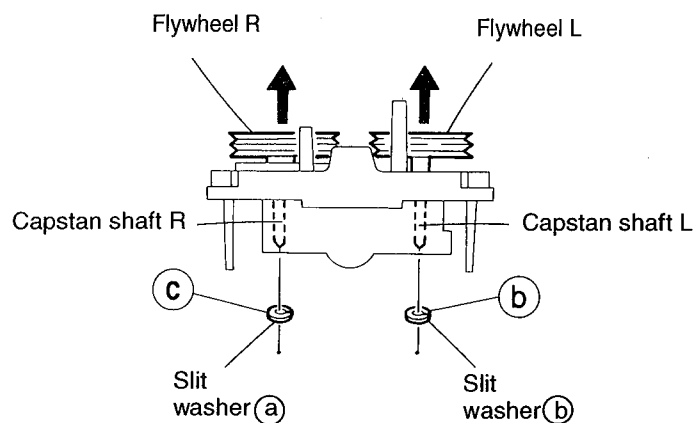


Fig. 5-25

■ Removing the Reel Pulse P.C. Board and Solenoid

(See Fig. 5- 27)

1. Remove the five pawls (d), (e), (f) and (g), (h) retaining the reel pulse P.C. board.
2. From the surface of the reel pulse P.C. board parts, remove the two pawls (i) and (j) retaining the solenoid.

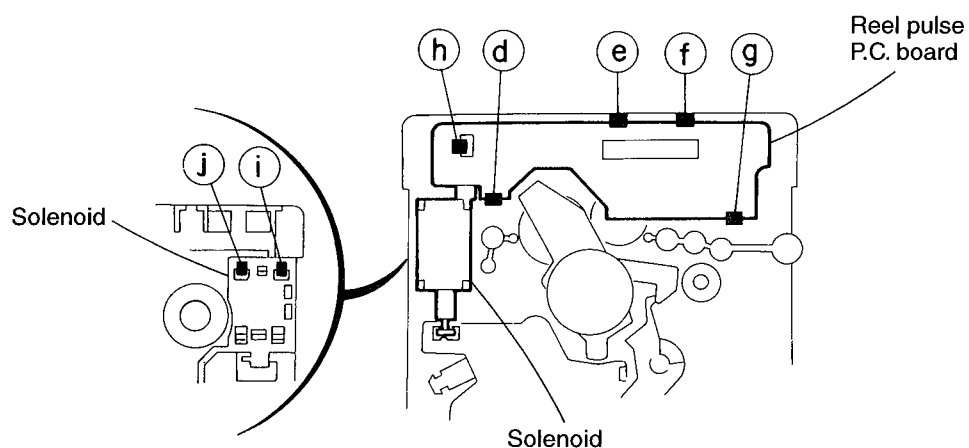


Fig. 5-27

<<CD Player Unit Section>>

■ Removing the CD mechanism and CD servo control P.C. board

(See Figs. 5- 28 and 5- 29)

1. Remove the rear panel.
2. Remove the left and right side panels.
3. Remove the CD player unit.
4. After turning back the CD player unit, remove the four screws ① retaining the CD servo control P.C. board and shield.
5. From the connector CN601 on the CD servo control P.C. board, disconnect the card wire outgoing from the CD mechanism.
6. From the connector P011 on the CD mechanism P.C. board, disconnect the connector wire outgoing from the connector CN602 on the CD servo control P.C. board.
7. Remove the four screws ② retaining the CD mechanism.
8. While sliding the CD mechanism in the arrow direction, take turn table out so carefully that it does not come into contact with the chassis.

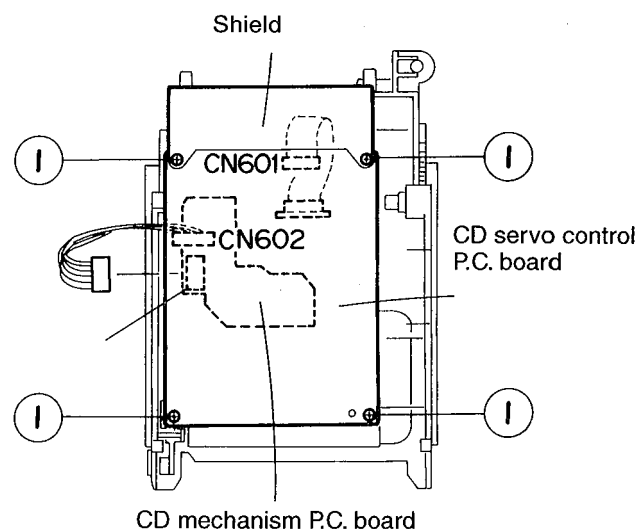


Fig. 5-28

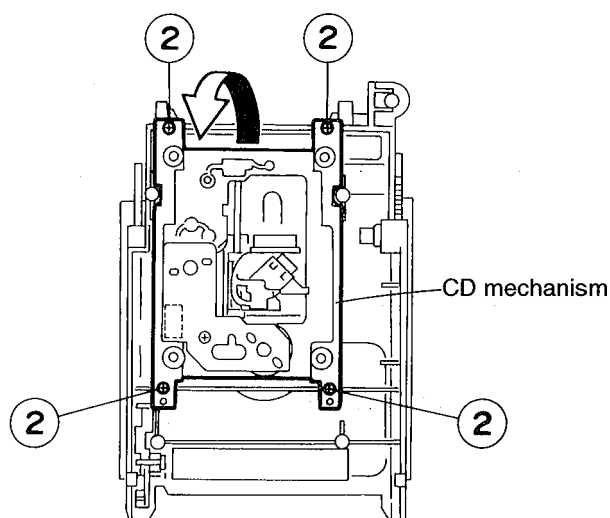


Fig. 5-29

6. Main Adjustment

■ Measurement Instruments Required for Adjustment

1. Low frequency oscillator
This oscillator should have a capacity to output 0dBs to 600 Ω at an oscillation frequency of 50Hz-20kHz.
2. Attenuator impedance: 600 Ω
3. Electronic voltmeter
4. Distortion meter
5. Frequency counter
6. Wow & flutter meter
7. Test tape
VTT712: Tape speed and running unevenness (3kHz)
VTT724: Reference level (1kHz)
TMT7036: Head angle (10kHz), playback frequency characteristics (1 kHz) and dubbing frequency characteristics (63, 1 and 10kHz)
Because of frequency- mixed tape with 63, 1, 10 and 14kHz (250nWb/m - 24dB), use this tape together with a filter.
8. Blank tape
TVPE I : AC-225
TYPE II: AC-514
9. Torque gauge: For play and back tension
FWD (TW2111A), REV (TW2121A) and
FF/REW (TW2231A)

■ Measurement Conditions

Power supply voltage AC230V (50Hz)
Reference output Speaker: 0.775V/3 Ω
Headphone: 0.245V/32 Ω
Reference frequency and input level .. 1kHz, AUX: - 8dBs
Input for confirming recording and playback
characteristics AUX: - 28dBs
Measurement output terminal Speaker J3002
※ Load resistance 3 Ω

● Radio Input signal

AM frequency 400Hz
AM modulation factor 30%
FM frequency 400Hz
FM frequency deviation 22.5kHz

● Tuner section

Voltage applied to tuner +B: DC5.7V
VT: DC 12V
Reference measurement output .. 26.1 mV (0.28V)/3 Ω
Input positions AM: Standard loop antenna
FM: TP1 (hot) and TP2 (GND)

● Standard measurement positions of volume

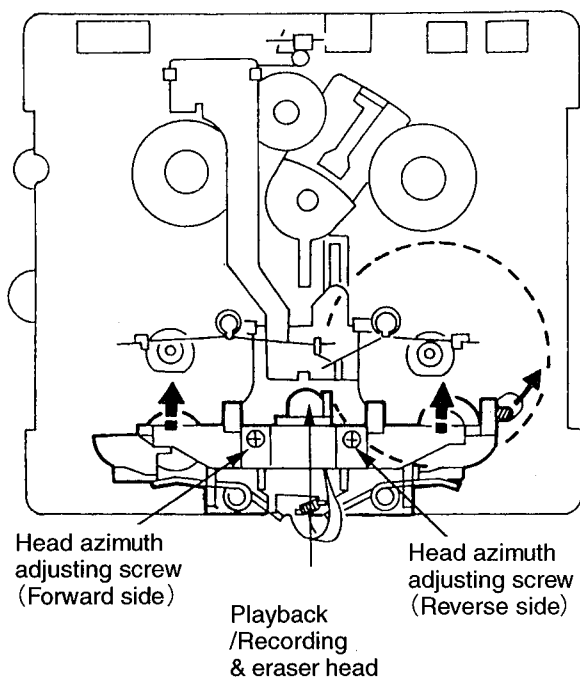
Bass Off
Active hyper bass pro Off
Up and down adjustment of volume VOL. 23

Precautions for Measurement

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

<<Arrangement of Adjusting Positions>>

● Cassette mechanism section



● Cassette mechanism section (Back side)

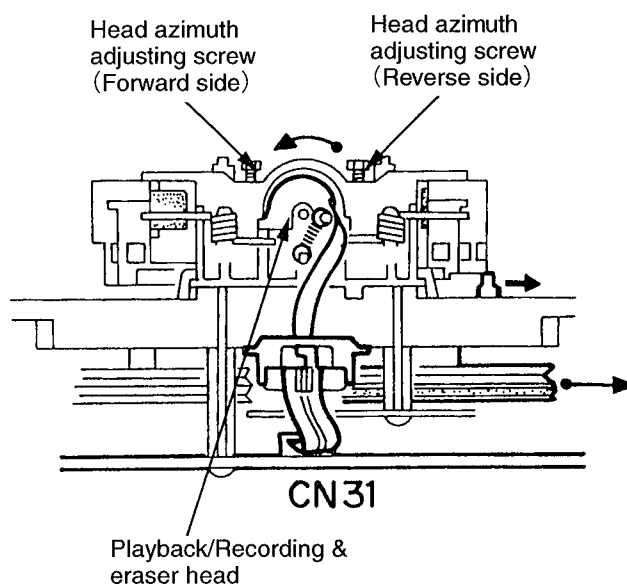


Fig. 6-1

● Front panel assembly Section

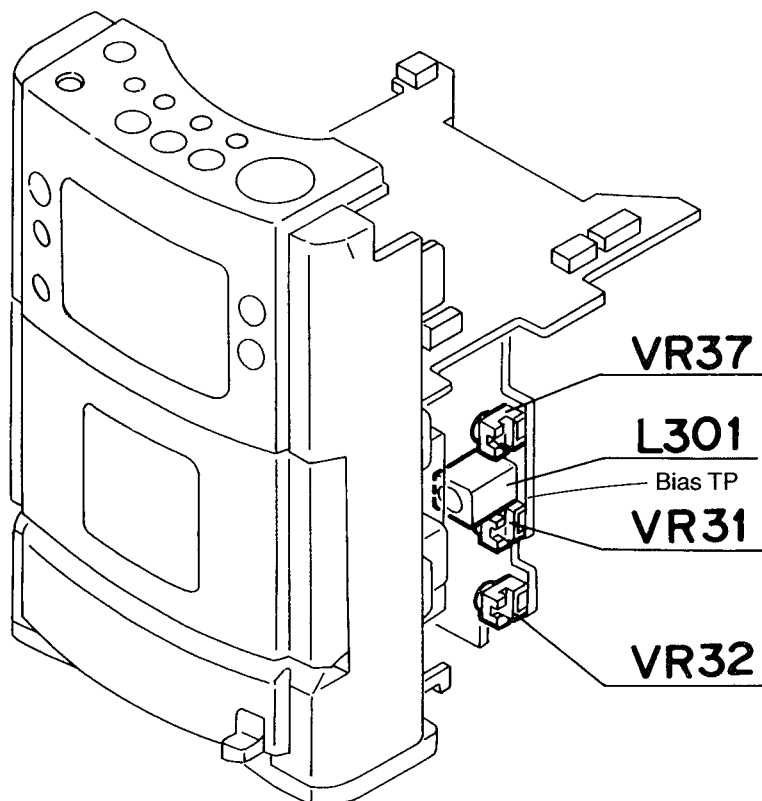


Fig. 6-2

■ Tape Recorder Section

Item	Measurement conditions	Measurement method	Standard value	Adjusting positions
Confirmation of head angle	Test tape : TMT7036 (10 kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) : Headphone terminal	① Play back the test tape TMT7036 (10 kHz) ② With the recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum. After adjustment, lock the head azimuth at least by half a turn. ③ In either case, this adjustment should be performed in both the forward and reverse directions with the head azimuth screw.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Confirmation of head speed	Test tape : VTT712 (3 kHz) or TMT7036 (3 kHz) Measurement output terminal : Headphone terminal	Adjust VR37 so that the frequency counter reading becomes 3,010 Hz $\pm$ 15 Hz when playing back the test tape VTT712 (3 kHz) with playback and recording mechanism after ending forward winding of the tape.	Tape speed of deck : 3,010 Hz $\pm$ 15 Hz	VR37

■ Reference Values for Confirmation Items

Item	Measurement conditions	Measurement method	Standard value	Adjusting positions
Difference between the forward and reverse speed	Test tape : TMT7036 (10 kHz) Measurement output terminal : Speaker terminal Speaker R (Load resistance: 3 Ω) measurement output terminal : Headphone terminal	When the test tape VTT712 (3 kHz) has been played back with the recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanism should be 6.0 Hz or less.	6.0 Hz or less	Head azimuth screw (See Fig. 6-1)
Wow & flutter	Test tape : TMT7036 (10 kHz) Measurement output terminal : Headphone terminal	When the test tape VTT712 (3 kHz) has been played back with the recording and playback mechanism at the beginning of forward winding, the frequency counter reading of wow & flutter should be 0.25% or less (WRMS).	0.25% or less (WRMS)	

■ Electrical Performance

Item	Measurement conditions	Measurement method	Standard value	Adjusting positions
Adjustment of recording bias current (Reference value)	- Mode: Forward or reverse mode - Recording mode - Test tape : AC-514 to TYPE II and AC-225 to TYPE I - Measurement output terminal : Both recording and headphone terminals	- With the recording and playback mechanism, load the test tapes (AC-514 to TYPE II and AC-225 to TYPE I), and set the mechanism to the recording and pausing conditions in advance. - After connecting 100 Ω in series to the recorder head, measure the bias current with a valve voltmeter at both of the terminals. - After resetting the [PAUSE] mode, start recording. At this time, adjust VR31 for Lch and VR32 for Rch so that the recording bias current values become 4.0 μA (TYPE I) and 4.20 μA (TYPE II).	AC-225 : 4.20 μ A AC-514 : 4.0 μ A	Lch : VR31 Rch : VR32
Adjustment of recording and playback frequency characteristics	Reference frequency : 1 kHz and 10 kHz (REF.: -20 dB) Test tape : Type II : AC-514 Measurement input terminal : OSC IN	- With the recording and playback mechanism, load the test tape (AC-514 to TYPE II), and set the mechanism to the recording and pausing conditions in advance. - While repetitively inputting the reference frequency signal of 1 kHz and 10 kHz from OSC IN, record and play back the tape. - While recording and playing back the test tape in TYPE II, adjust VR31 for Lch and VR32 for Rch so that the output deviation between 1 kHz and 10 kHz becomes -1 dB $\pm$ 2 dB.	Output deviation between 1 kHz and 10 kHz : -1 dB $\pm$ 2 dB	Lch : VR31 Rch : VR32

■ Reference Values for Electrical Function Confirmation Items

Item	Measurement conditions	Measurement method	Standard value	Adjusting positions
Recording bias frequency	Forward or reverser - Test tape : TYPE II (AC-514) - Measurement terminal: BIAS TP on P.C. board	- While changing over to and from BIAS 1 and 2, confirm that the frequency is changed. - With the recording and playback mechanism, load the test tape (AC-514b to TYPE II), and set the mechanism to the recording and pausing conditions in advance. - Confirm that the BIAS TP frequency on the P.C. board is 100 kHz $\pm$ 6 kHz.	100 kHz $\pm$ 6 kHz	
Eraser current (Reference value)	Forward or reverse - Recording mode - Test tape : AC-514 to TYPE II and AC-225 to TYPE I - Measurement terminal: Both of the eraser head terminals	- With the recording and playback mechanism, load the test tape (AC-514 to TYPE II and AC-225 to TYPE I), and set the mechanism to the recording and pausing conditions in advance. - After setting to the recording conditions, connect 1W in series to the eraser head on the recording and playback mechanism side, and measure the eraser current from both of the eraser terminals.	TYPE II : 120 mA TYPE I : 75 mA	

7. Out Line of Main IC

■ IC701: μ PD78064GF-091 (System CPU)

Pin No.	Symbol	BUP	I/O	Function
1	SDATA	H	I/O	Serial data (TUNER PLL/TAPE IC)
2	SCK	H	O	Serial clock (TUNER PLL/TAPE IC)
3	QRIN		I	CD Q code data
4	-	-	-	(Not used)
5	SQCK	L	O	CD Q code data synchronizing clock
6	IC		-	Connected to Vss
7	X2		-	Main system clock: 4.19 MHz
8	X1		I	Main system clock 4.19 MHz
9	Vdd		-	Power supply
10	XT1		I	Sub system clock: 32.788 kHz
11	XT2		-	Sub system clock: 32.788 kHz
12	RESET		I	Reset
13	REM		I	Remote control
14	RDSCK		-	Not used
15	JOG1		I	JOG encoder 1
16	BEAT2	L	O	Main clock selection 2
17	BEAT1	L	O	Main clock selection 1
18	+BCTL	H	O	Switched 5V control ("H" = off at 5V)
19	$\overline{\text{XRST}}$	H	O	CD LSI reset
20	MCLK	L	O	CD LSI command clock
21	MDATA	L	O	CD LSI command data
22	MLD	L	O	CD LSI command load
23	PBMUTE	L	O	Tape playback muting (Mute = "L")
24	STTA	L	O	Tape IC strobe
25	REEL		I	Tape end detection
26	$\overline{\text{FAUX}}$	L	O	Function AUX (AUX = "L")
27	AVss		-	AD converter GND
28	CDSAFETY		I	CD abnormal voltage detection
29	DOOR/RST		I	[REST/CLOSE] switch
30	SAFETY1		I	Abnormal voltage detection 1
31	SAFETY0		I	Abnormal voltage detection 2
32	KEY1		I	Body key input 1
33	KEY0		I	Body key input 0 (including version selection)
34	TAPE0		I	TAPE SWITCH 0
35	TAPE1		I	TAPE SWITCH 1
36	AVdd		-	AD converter power supply with a same potential as that of Vdd
37	AVref		-	AD converter reference voltage: off at [SLOW] mode
38	BUP	H	I	Backup power supply decision ("H" = Backup)

Pin No.	Symbol	BUP	I/O	Function
39	FTU	H	O	Function tuner (Tuner = "H")
40	Vss		-	GND
41	$\overline{\text{MPX}}$		I	FM stereo detection ("L" = Stereo)
42	PERIOD	L	O	Tuner PLL strobe
43	JOG2		I	JOG encoder 2
44	BASS	H	O	Bass control (PWM)
45	TRE	H	O	TRE control (PWM)
46	VOL	H	O	VOL. control (PWM)
47	$\overline{\text{AHB}}$	H	O	Active hyper bass ON/OFF (ON = "L", OFF = "H")
48	$\overline{\text{SMUTE}}$	H	O	System muting (Muting = "L")
49	P. OUT	L	O	Power ON/OFF (Power ON = "H")
50	F. CD	H	O	Function CD (CD = "H")
51	COM0	L	O	LCD common 0
52	COM1	L	O	LCD common 1
53	COM2	L	O	LCD common 2
54	COM3	L	O	LCD common 3
55	BIAS	L	-	LCD bias voltage
56	VLC0		-	LCD bias voltage bias>VLC0>VLC1>VLC2
57	VLC1		-	LCD bias voltage
58	VLC2		-	LCD bias voltage
59	Vss		-	GND
60	S0	L	O	LCD segment 0
61	S1	L	O	LCD segment 1
62	S2	L	O	LCD segment 2
63	S3	L	O	LCD segment 3
64	S4	L	O	LCD segment 4
65	S5	L	O	LCD segment 5
66	S6	L	O	LCD segment 6
67	S7	L	O	LCD segment 7
68	S8	L	O	LCD segment 8
69	S9	L	O	LCD segment 9
70	S10	L	O	LCD segment 10
71	S11	L	O	LCD segment 11
72	S12	L	O	LCD segment 12
73	S13	L	O	LCD segment 13
74	S14	L	O	LCD segment 14
75	S15	L	O	LCD segment 15
76	S16	L	O	LCD segment 16

Pin No.	Symbol	BUP	I/O	Function
77	S17	L	O	LCD segment 17
78	S18	L	O	LCD segment 18
79	S19	L	O	LCD segment 19
80	S20	L	O	LCD segment 20
81	S21	L	O	LCD segment 21
82	S22	L	O	LCD segment 22
83	S23	L	O	LCD segment 23
84	S24	L	O	LCD segment 24
85	S25	L	O	LCD segment 25
86	S26	L	O	LCD segment 26
87	S27	L	O	LCD segment 27
88	S28	L	O	LCD segment 28

Pin No.	Symbol	BUP	I/O	Function
89	S29	L	O	LCD segment 29
90	S30	L	O	LCD segment 30
91	S31	L	O	LCD segment 31
92	S32	L	O	LCD segment 32
94	S33	L	O	LCD segment 33
94	S34	L	O	LCD segment 34
95	S35	L	O	LCD segment 35
97	S36	L	O	LCD segment 36
98	S37	L	O	LCD segment 37
98	S38	L	O	LCD segment 38
99	S39	L	O	LCD segment 39
100	STAT	L	I	LCD LSI status

■ IC38: BH3852S (Electrical Volume)

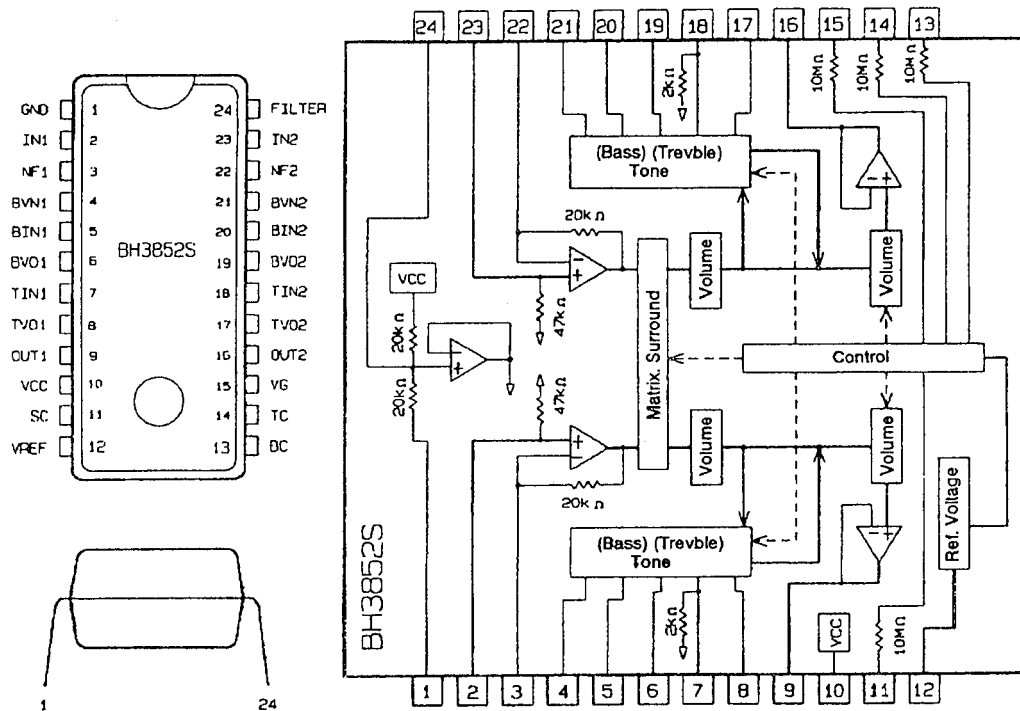


Fig. 7-1

8. Wiring Connection

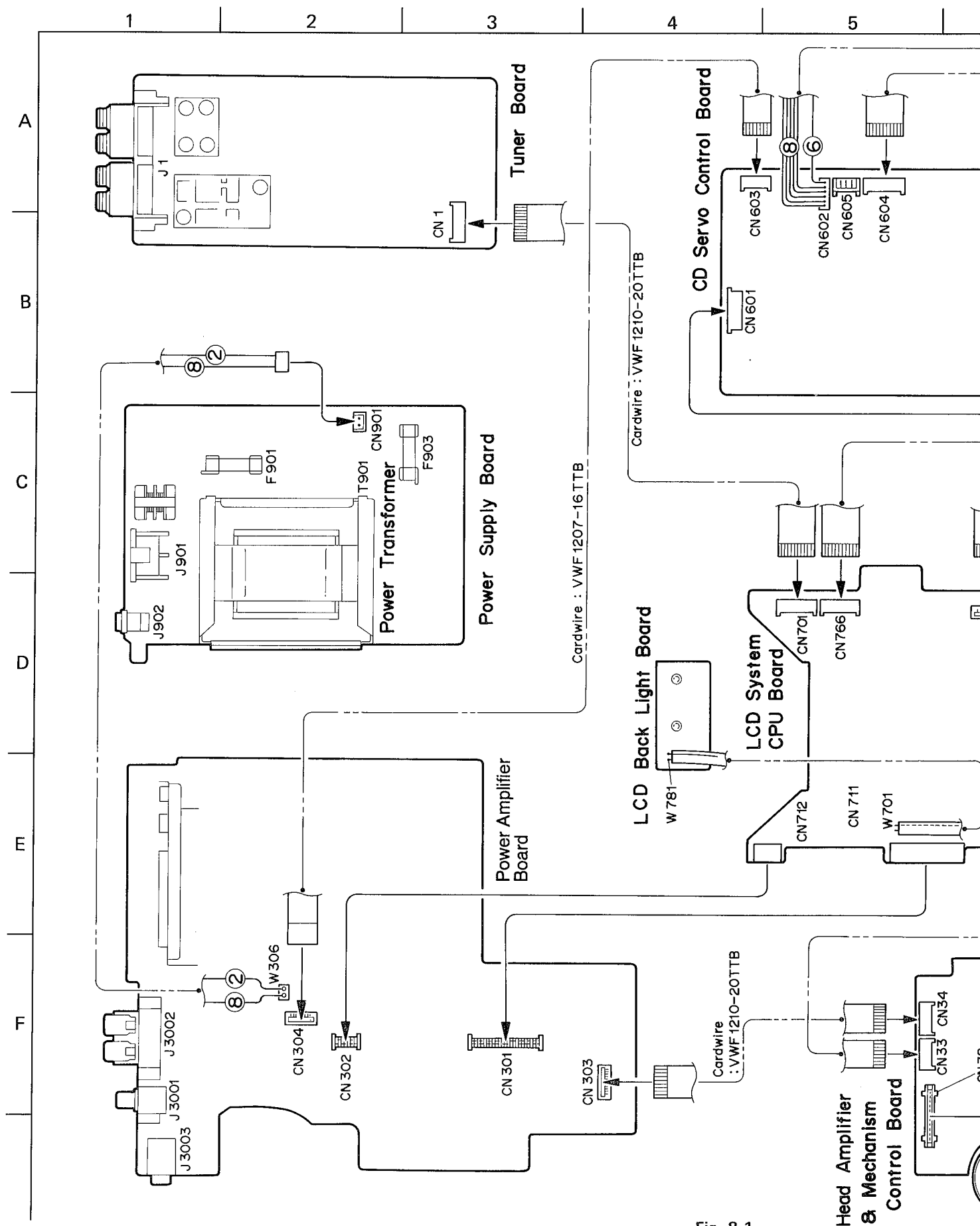
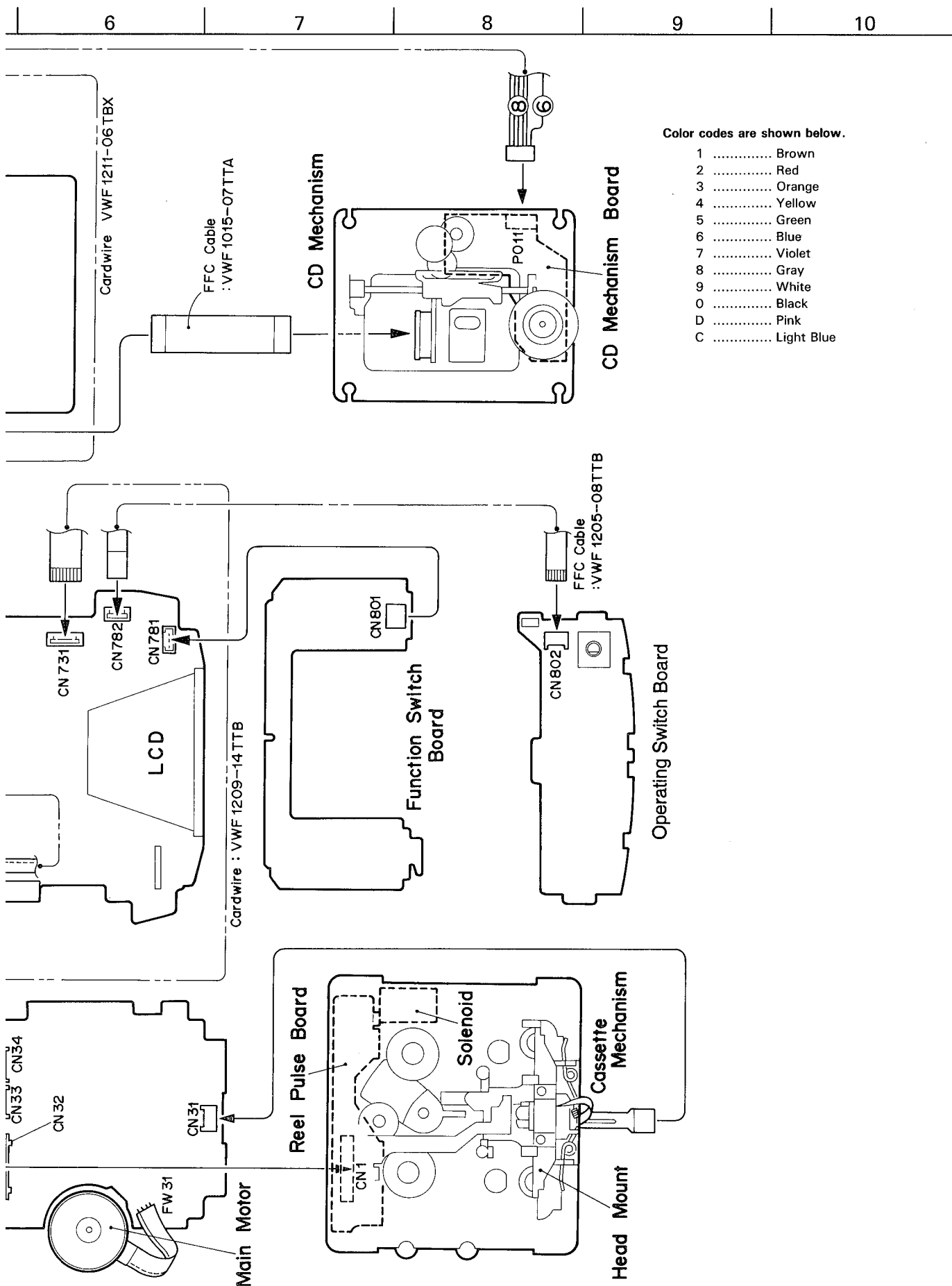
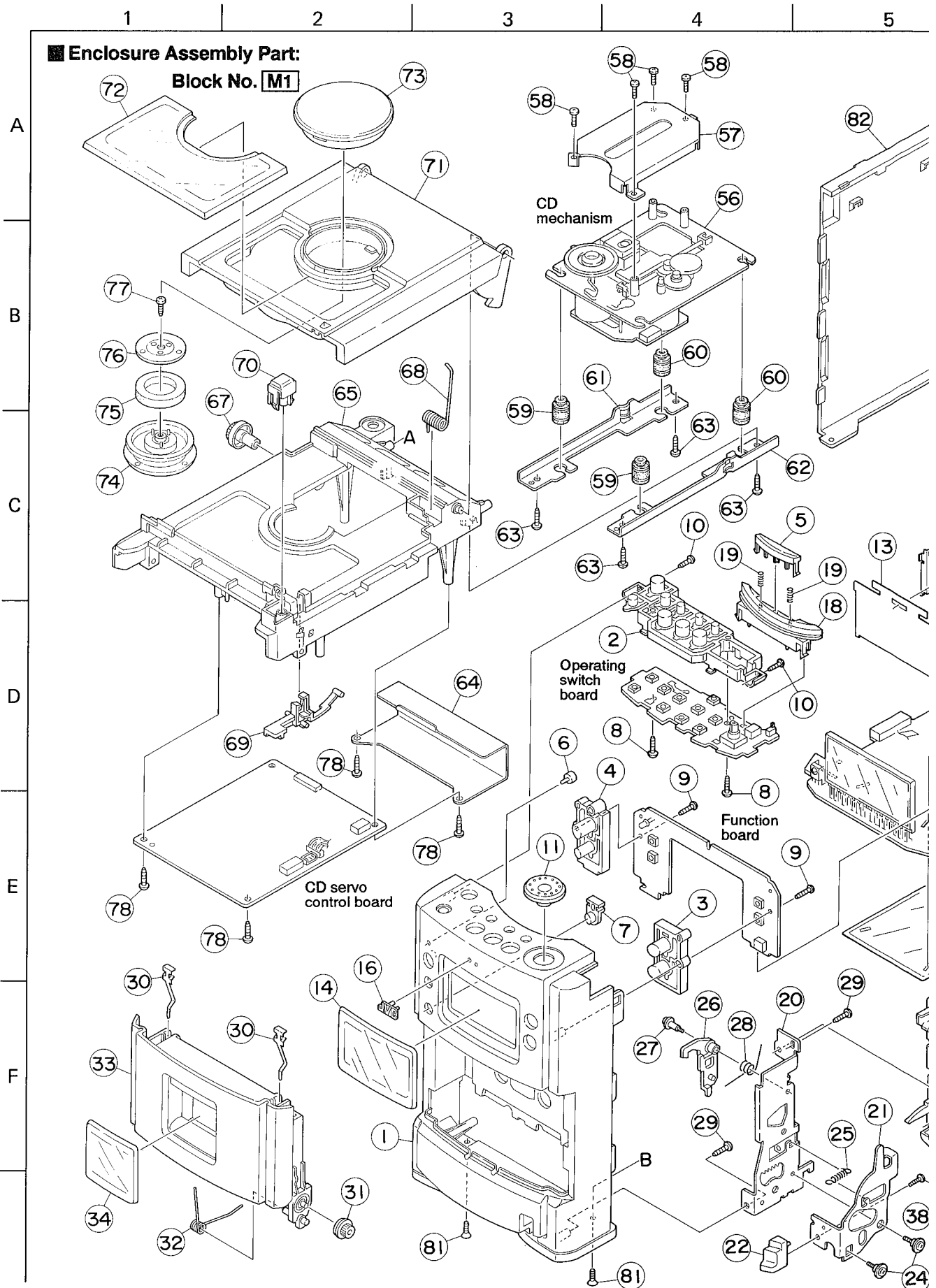


Fig. 8-1



9. Analytic Drawing and Parts List



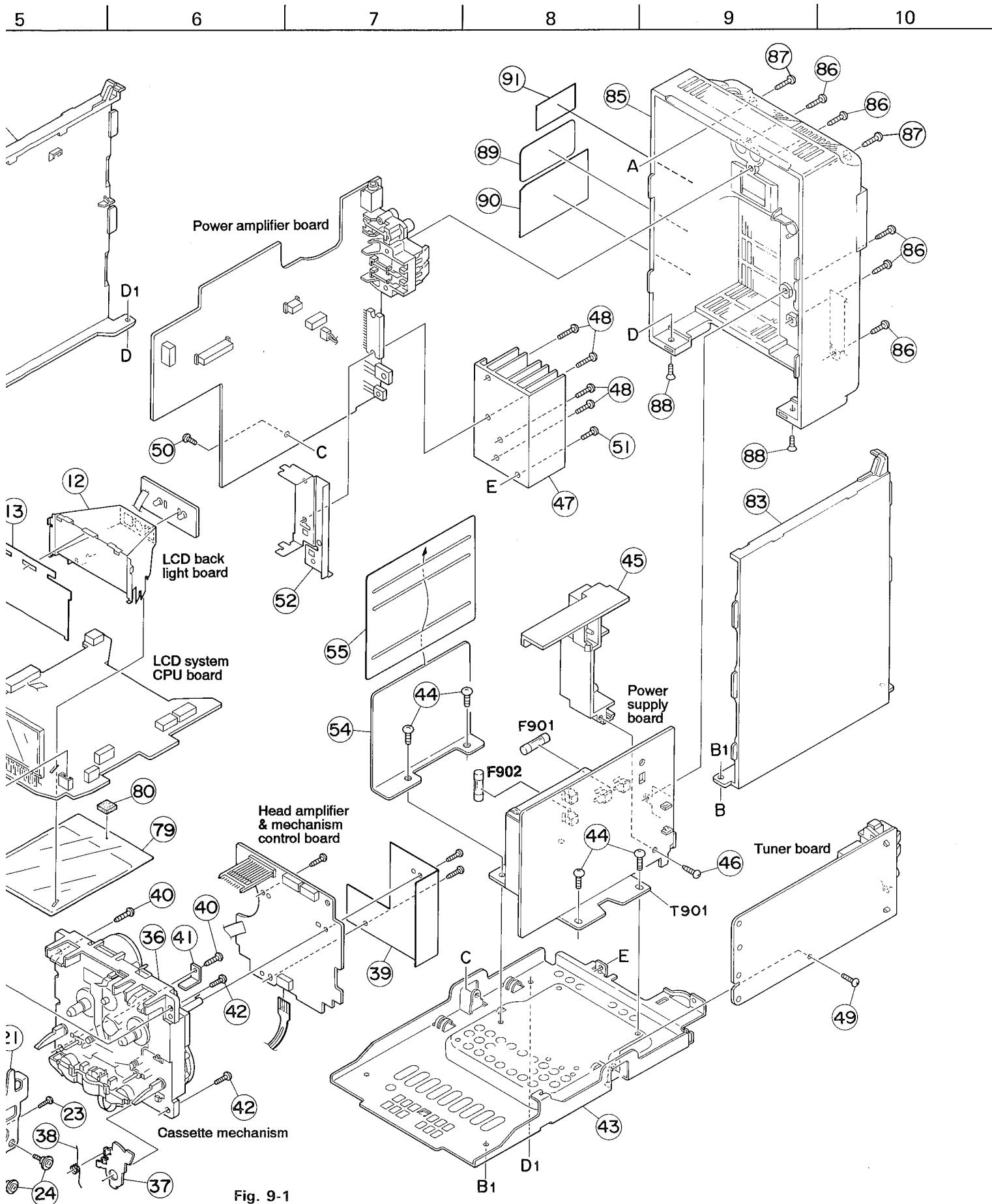


Fig. 9-1

● Enclosure Assembly Parts List

BLOCK NO. M1MM

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VJG1473-002UL	FRONT PANEL		1		
2	VXP3867-001	PUSH BUTTON(A)		1		
3	VXP5352-001	PUSH BUTTON(B)		1		
4	VXP5353-001	PUSH BUTTON(C)		1		
5	VXP5358-001	SNOOZE BUTTON		1		
6	VJK4493-001SC	LENS(STANDBY)		1		
7	VJK4504-001	REMOCON LENS		1		
8	SBSF2608Z	SCREW	FOR F.P+PWB	2		
9	SBSF3008Z	SCREW	FOR F.P+PWB	2		
10	SBSF2608Z	SCREW	FOR F.P+BUTTON	2		
11	VXL4453-001	MULTI JOG DIAL		1		
12	VYH3982-001	LAMP CASE		1		
13	VYTT704-001	LCD FILTER	FOR LCD	1		
14	VJT4241-001	LCD LENS		1		
16	E406971-221	JVC MARK		1		
18	VYH8160-001	BUTTON COVER		1		
19	VKW5306-001	COMP.SPRING		2		
20	VYH3983-001	DOOR HOLDER		1		
21	VYH8149-001	EJECT LEVER		1		
22	VXQ4125-001	EJECT KNOB		1		
23	SBSF2608Z	SCREW	FOR E.LVR+E.KNO	1		
24	VKZ4323-002	SCREW	D.HOLDER+E.LEVE	2		
25	VKW3002-274	TENSION SPRING	FOR E.LEVER	1		
26	VYH7347-001	EJECT ARM		1		
27	VKZ4341-001	SPECIAL SCREW	FOR EJECT ARM	1		
28	VKW4938-001	TORTION SPRING	FOR EJECT ARM	1		
29	SBSF3008Z	SCREW	F.P+D.HOLDER	2		
30	VKY4180-001	CASSETTE SPRING		2		
31	VYH5601-001	GEAR		1		
32	VKW5295-001	DOOR SPRING		1		
33	VJT2384-001	CASSETTE DOOR		1		
34	VJT4242-001	DOOR LENS		1		
36	-----	CASSETTE MECHA	SLC	1		
37	VKL7850-202	EJECT SAFTY(R)		1		
38	VKW5258-002	TORSION SPRING		1		
39	VMA4723-001	SHIELD		1		
40	SBSF3010Z	SCREW	F.PANEL+MECHA	2		
41	VYH8183-001	BRACKET	FOR CASSETTE DO	1		
42	SBST3008Z	SCREW	DOOR HOL+MECHA	2		
43	VYH1263-001	BOTTOM CHASSIS		1		
44	SBST4006Z	SCREW	CHASSIS+TRANS	4		
45	VYH3984-001	JACK HOLDER		1		
46	SBSF3010Z	SCREW	PWB+JACK HOL	1		
47	VYH8153-001	RADIATION		1		
48	SBST3012Z	SCREW	RADI+IC	4		
49	SBST3006Z	SCREW	RADI+CHASSIS	1		
50	SBST3006Z	SCREW	MAIN PWB+CHASSI	1		
51	SBST3006Z	SCREW	TUNER PWB+CHASS	1		
52	VYH3987-001SC	IC HOLDER		1		
54	VMA3239-001	SHIELD		1		
55	VMA4720-001	BARRIER		1		
56	-----	CD MECHA, ASSY		1		
57	VJD5410-005	PICK COVER		1		
58	SDSF2006M	SCREW	CD MECHA+P.COVE	4		
59	E75609-001	INSULATOR		2		

BLOCK NO. M1MM [11]

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	60	E75609-002	INSULATOR		2		
	61	VYH8089-001SC	CD MECHA HOLDER		1		
	62	VYH8089-002SC	CD MECHA HOLDER		1		
	63	SBSF3010Z	SCREW	CD CASE+M.HOLDE	4		
	64	VMA4692-002SC	SHIELD	FOR CD MECHA WI	1		
	65	VJD1216-002UL	CD CASE		1		
	67	VYH4769-002	GEAR		1		
	68	VKW5276-001	CD DOOR SPRING		1		
	69	VYH8152-001	LOCK LEVER		1		
	70	VXP5354-001	CD EJECT KNOB		1		
	71	VJT2385-001	CD DOOR		1		
	72	VJT3392-001	CD LENS		1		
	73	VJT4245-001	CD ORNAMENT		1		
	74	VYH3726-002SS	CLAMPER		1		
	75	VYH7313-003	MAGNET		1		
	76	VYH7677-201	YOKE		1		
	77	SDSF2606Z	SCREW	FOR CLAMPER	1		
	78	SBSF3010Z	SCREW	CD PWB+CD CASE	4		
	79	VMA4721-002	SHIELD		1		
	80	PU59915-105	SPACER	FOR SHIELD	1		
	81	SSST3008Z	SCREW	CHASSIS+F.PANEL	2		
	82	VJD2488-002UL	SIDE PANEL(L)		1		
	83	VJD2489-002UL	SIDE PANEL(R)		1		
	85	VJG1477-012UL	REAR PANEL		1		
	86	SBSF3010Z	SCREW	JACK+R.P	5		
	87	SBSF3010Z	SCREW	R.P+CD CASE	2		
	88	SSST3008Z	SCREW	FOR R.P+CHASSIS	2		
	89	VND5001-011	HHS LABEL		1		
	90	VYN9316-C006T	NAME PLATE		1		
	91	VND5008-001	FCC LABEL(4)		1		
	92	VND4003-020	FUSE LABEL		1		
△	F 901	QMF51N2-R80J1	FUSE		1		
△	F 902	QMF0007-8R0J1	FUSE		1		
△	T 901	VTP66A2-12L	POWER TRANS		1		

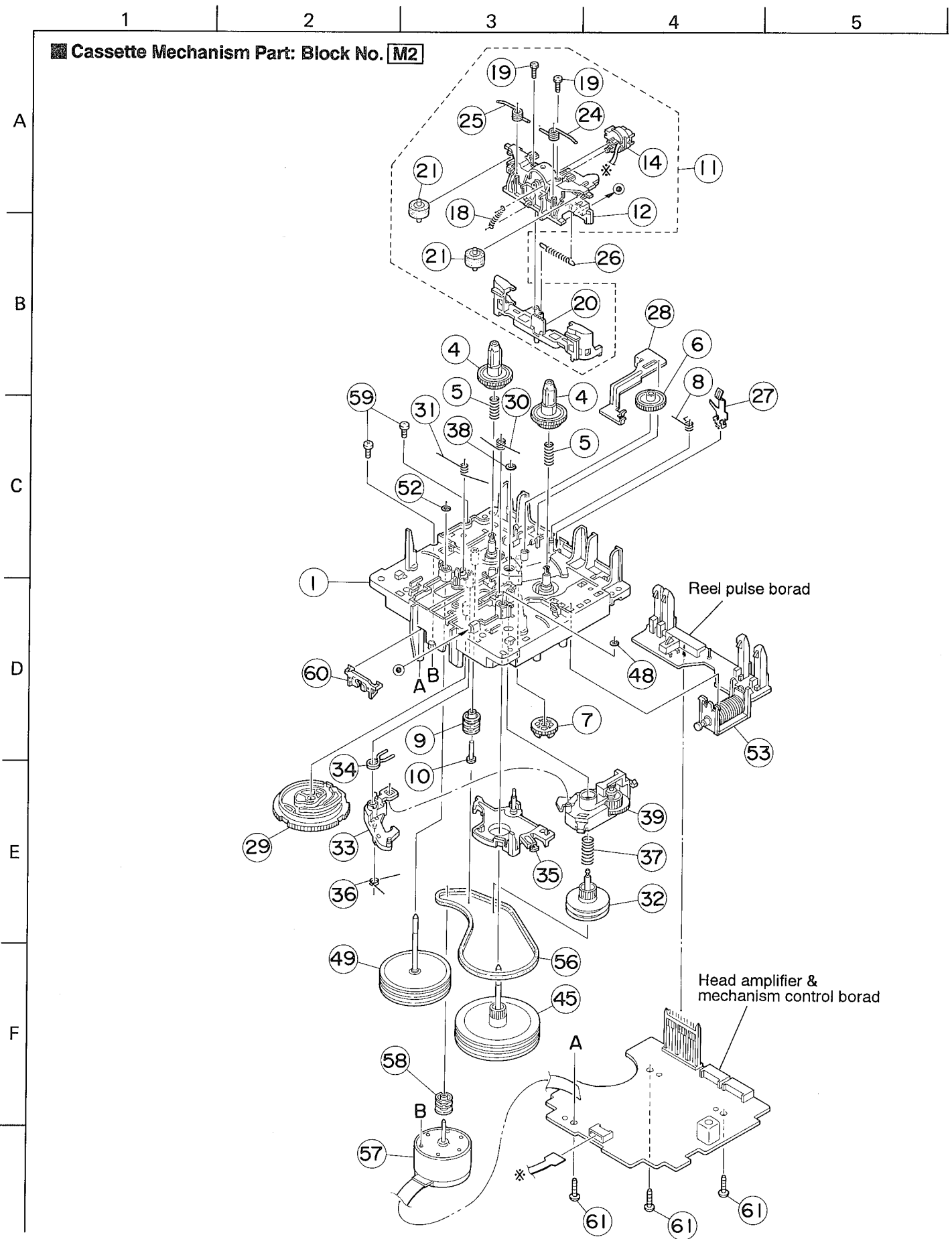
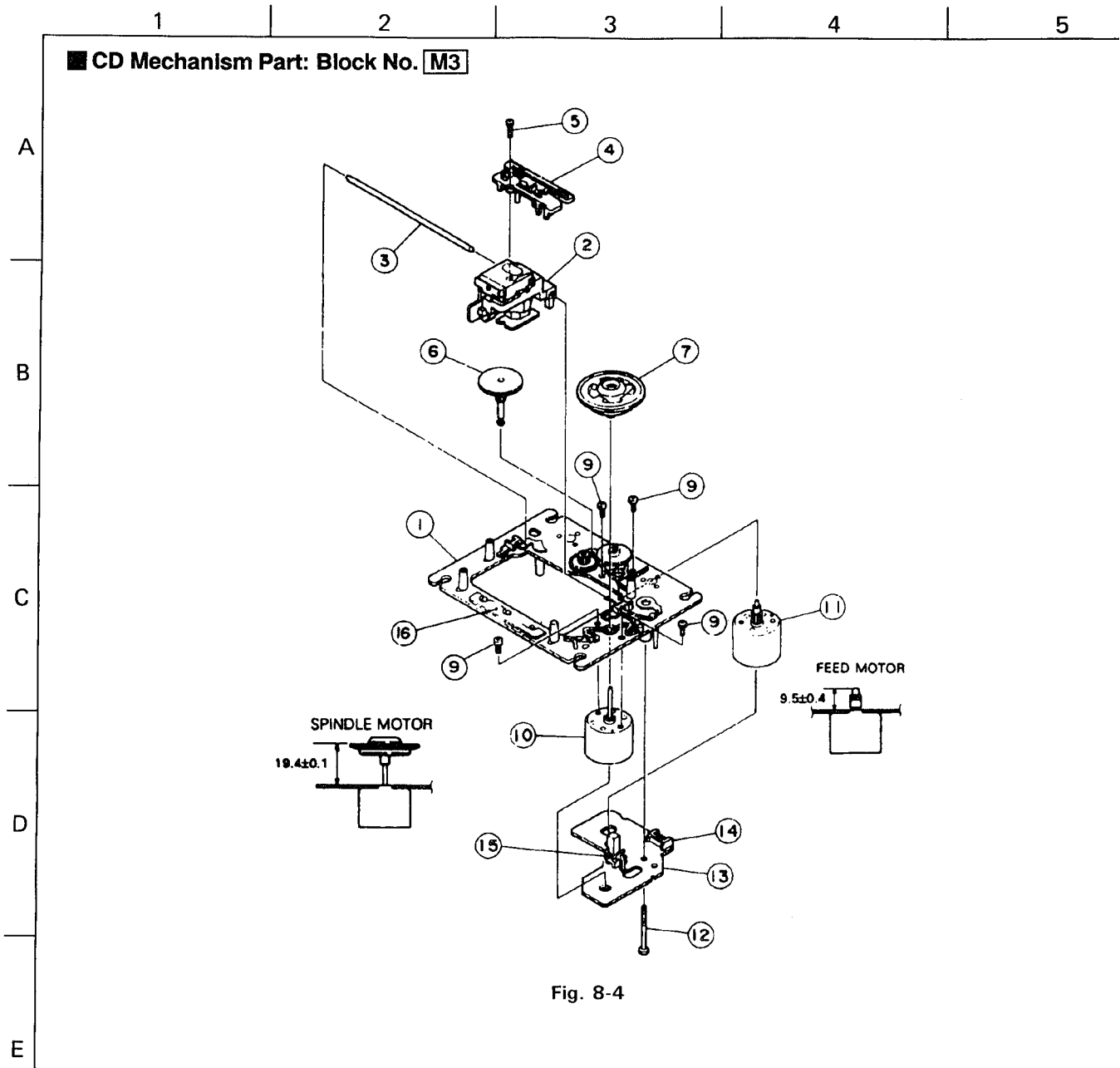


Fig. 9-2

Cassette Mechanism Parts List

BLOCK NO. M2MM 1 1

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VKS1165-00C	CHASSIS B. ASSY		1		
	4	VKS2274-002	REEL GEAR		2		
	5	VKW5286-002	B.T. SPRING		2		
	6	VKS5559-001	PLAY IDLE GEAR		1		
	7	VKS5560-001	FR IDLE GEAR		1		
	8	VKW5296-001	EARTH SPRING		1		
	9	VKR4749-002	IDLE PULLEY		1		
	10	VKH5786-002	SHAFT		1		
	11	VKS2275-00C	HEAD MOUNT ASSY		1		
	12	VKS1167-001	HEAD MOUNT BASE		1		
	14	VGH0425-544	HEAD HOLDER ASY	VKS2275-00B	1		
	18	VKW5302-001	HEAD SPRING		1		
	19	VKZ4730-001	SPECIAL SCREW		2		
	20	VKS2277-005	DIRECTION LEVER		1		
	21	VKP4233-00A	PINCH ROL. ASSY		2		
	24	VKW5299-001	PIN.ROL.SP.(R)		1		
	25	VKW5300-001	PIN.ROL.SP.(L)		1		
	26	VKW5285-001	RETURN SPRING		1		
	27	VKY3149-001	CASSETTE SP.		1		
	28	VKM3906-002	PLAY SW.LEVER		1		
	29	VKS1166-001	CONTROL CAM		1		
	30	VKW5279-001	HEAD BASE SP(R)		1		
	31	VKW5280-001	HEAD BASE SP(L)		1		
	32	VKR3199-001	MAIN PULLEY		1		
	33	VKS3785-001MM	FR ARM		1		
	34	VKW5284-002	SWING SPRING		1		
	35	VKS2278-001	TRIGGER ARM		1		
	36	VKW5301-001	FR SPRING		1		
	37	VKW5266-001	ELEVATOR SPRING		1		
	38	WDL214025	WASHER		1		
	39	VKS3786-00D	CLUTCH ASSY		1		
	45	VKF3205-00B	F.WHEEL ASSY(R)		1		
	48	WDL183525-6	SLIT WASHER		1		
	49	VKF3207-00B	F.WHEEL ASSY(L)		1		
	52	WDL173525-2	SLIT WASHER		1		
	53	VGP2401-00A	DC SOLENOID		1		
	56	VKB3000-178	CAPSTAN BELT		1		
	57	MSI-5U2LWA	D.C.MOTOR ASS'Y		1		
	58	VKR4761-001	MOTOR PULLEY		1		
	59	SPSP2604Z	SCREW		2		
	60	VKS5577-001	TAPE HOLDER		1		
	61	SBSF2608Z	TAPPING SCREW		3		



CD Mechanism Parts List

BLOCK NO. M4MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	BASE ASS'Y		1		
	2	OPTIMA-6S	PIC-UP		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GIAR		1		
	7	E75807-301	CD T.TABLE ASSY		1		
	9	SDSP2003N	SCREW	FOR MOTOR	4		
	10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
	11	E406784-001SA	DC MOTOR ASS'Y	FEED MOTOR	1		
	12	E75832-001	S.SCREW	M.REAF SWITCH	1		
	13	EMW10190-001	BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASSY		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

10. Block Diagram

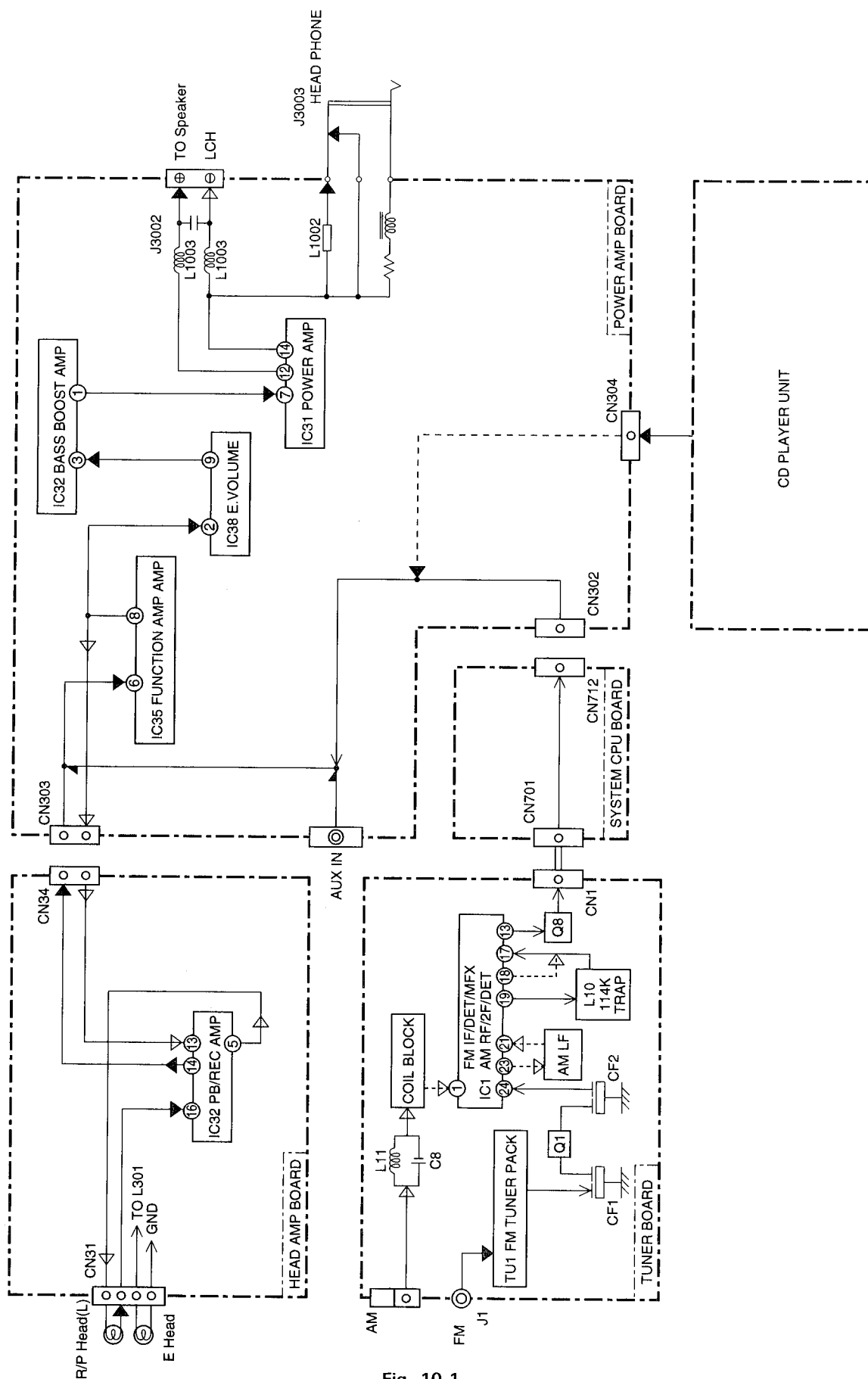
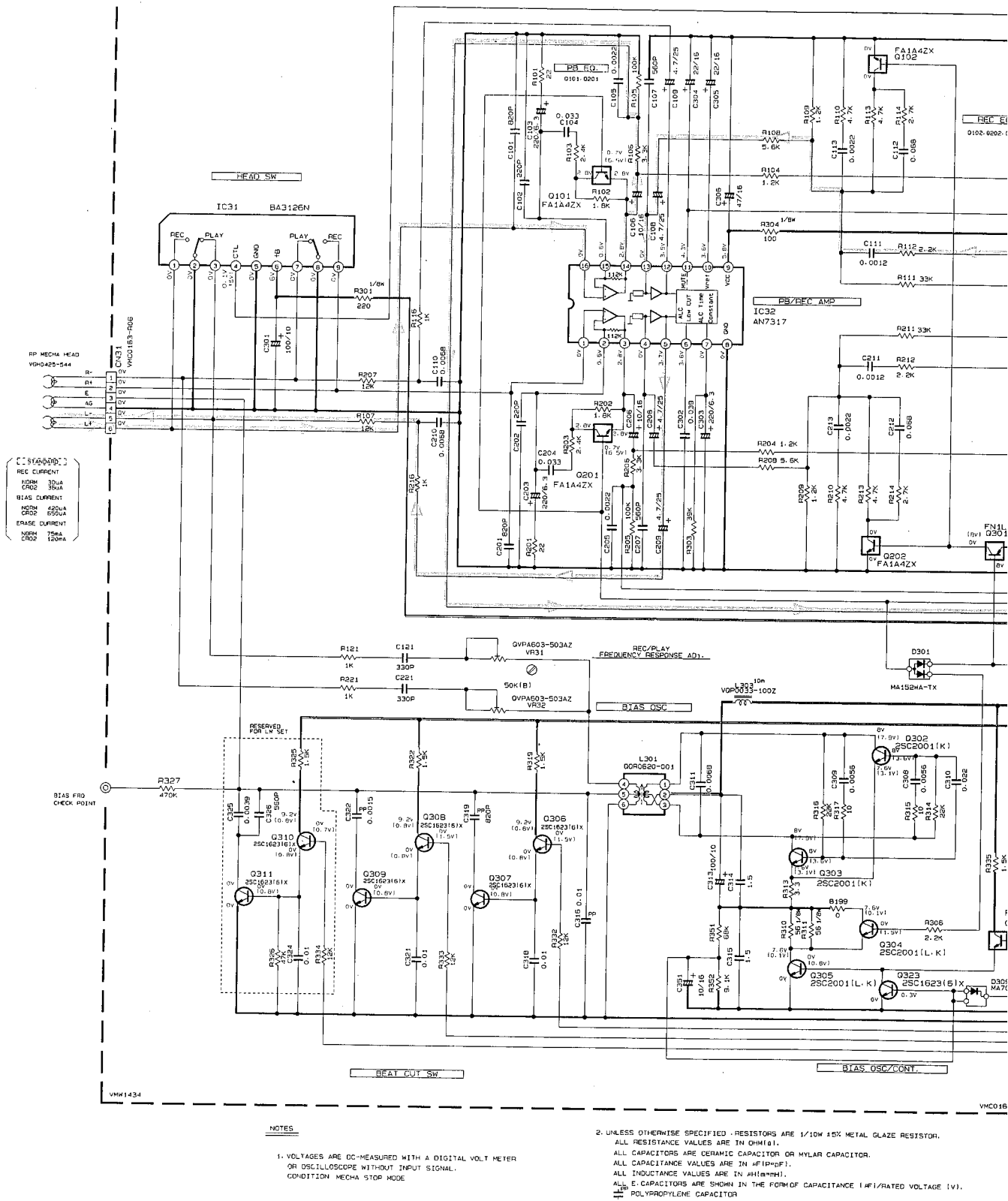


Fig. 10-1

11. Standard Schematic Diagrams

■ **Head Amplifier & Mechanism Control Circuit: Drawing No. VDH1032-001PV**

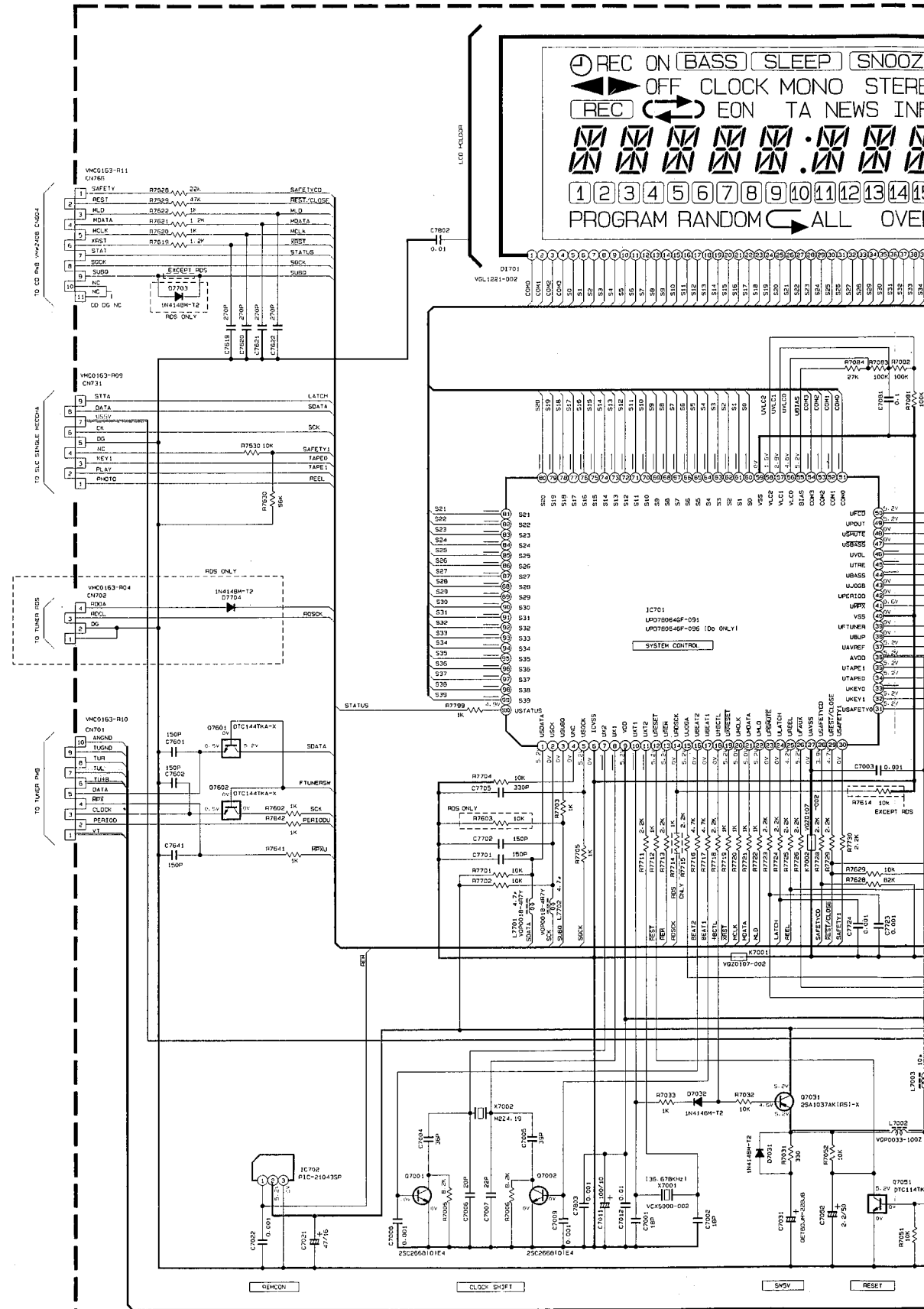


Note : VDH1032001PV (s/G)

Fig. 11-1

■ LCD & System CPU Circuit: Drawing No. VDH9316-001SV

A
B
C
D
E
F



Note : VDH9316001SV(s/G)



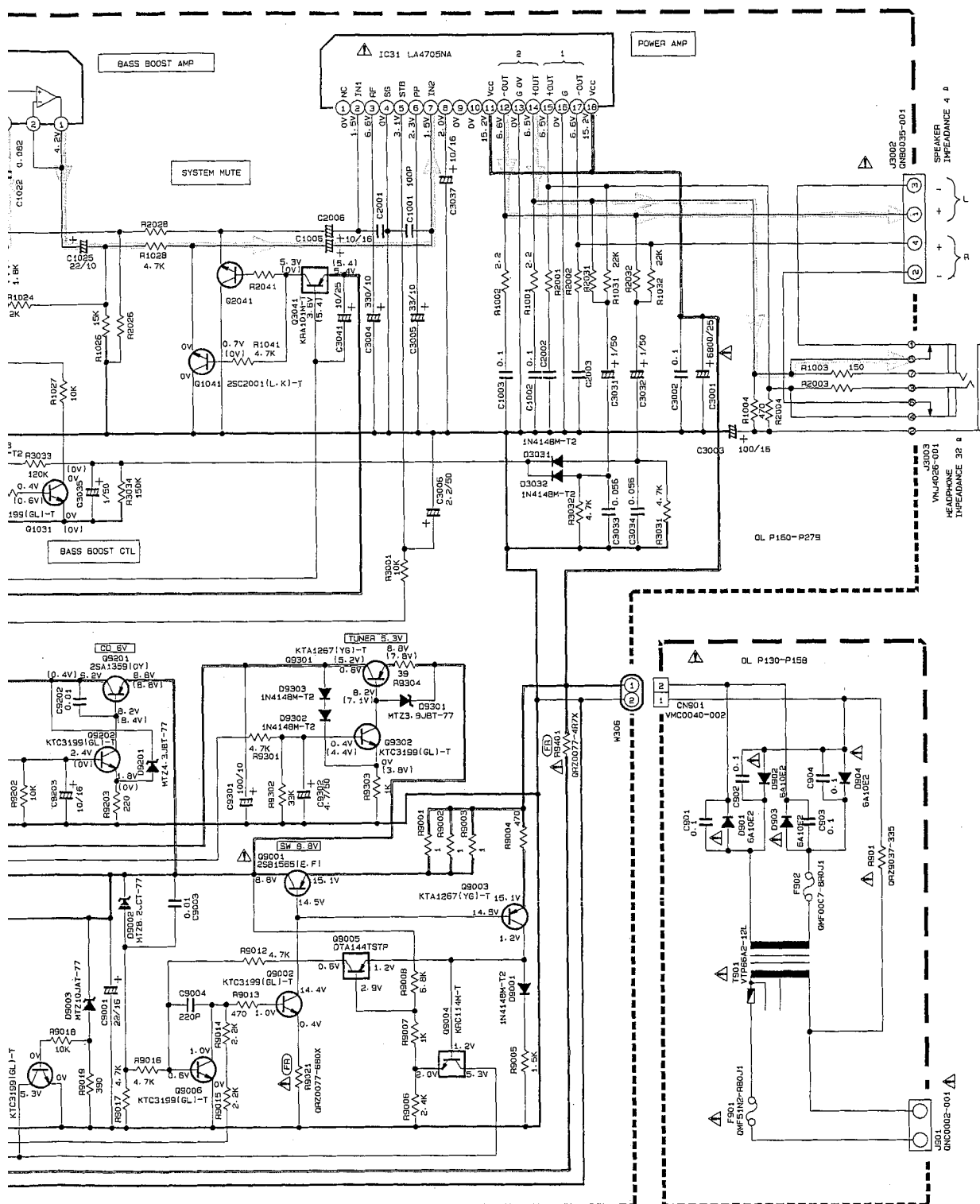
Fig. 11-2

FM Radio signal

 +B Line

A
—
B
—
C
—
D
—
E
—
F





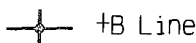
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONJUNCTION --- CD STOP MODE
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
2. UNLESS OTHERWISE SPECIFIED - RESISTORS ARE 1/6W $\pm 5\%$ CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μ F(μ F).
ALL INDUCTANCE VALUES ARE IN μ H(μ H).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μ F)/RATED VOLTAGE (V).

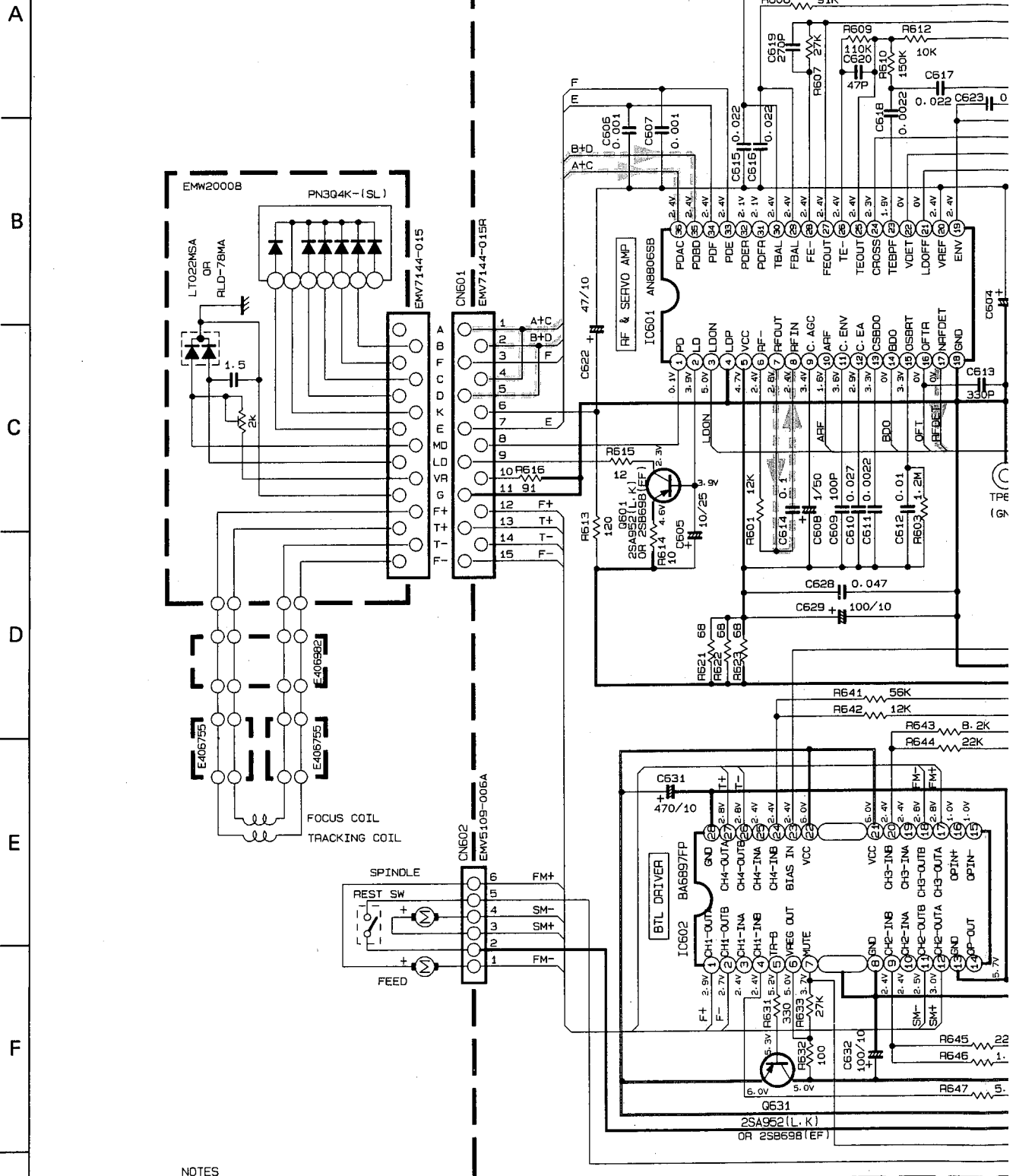
025-14-520
CN301

→ Tape P.B/Main signal
→ REC/Main signal
→ AUX IN Signal

CD Analogue signal
FM Radio signal
AM Radio signal



CD Servo Control Circuit: Drawing No. VDH1010-001CW

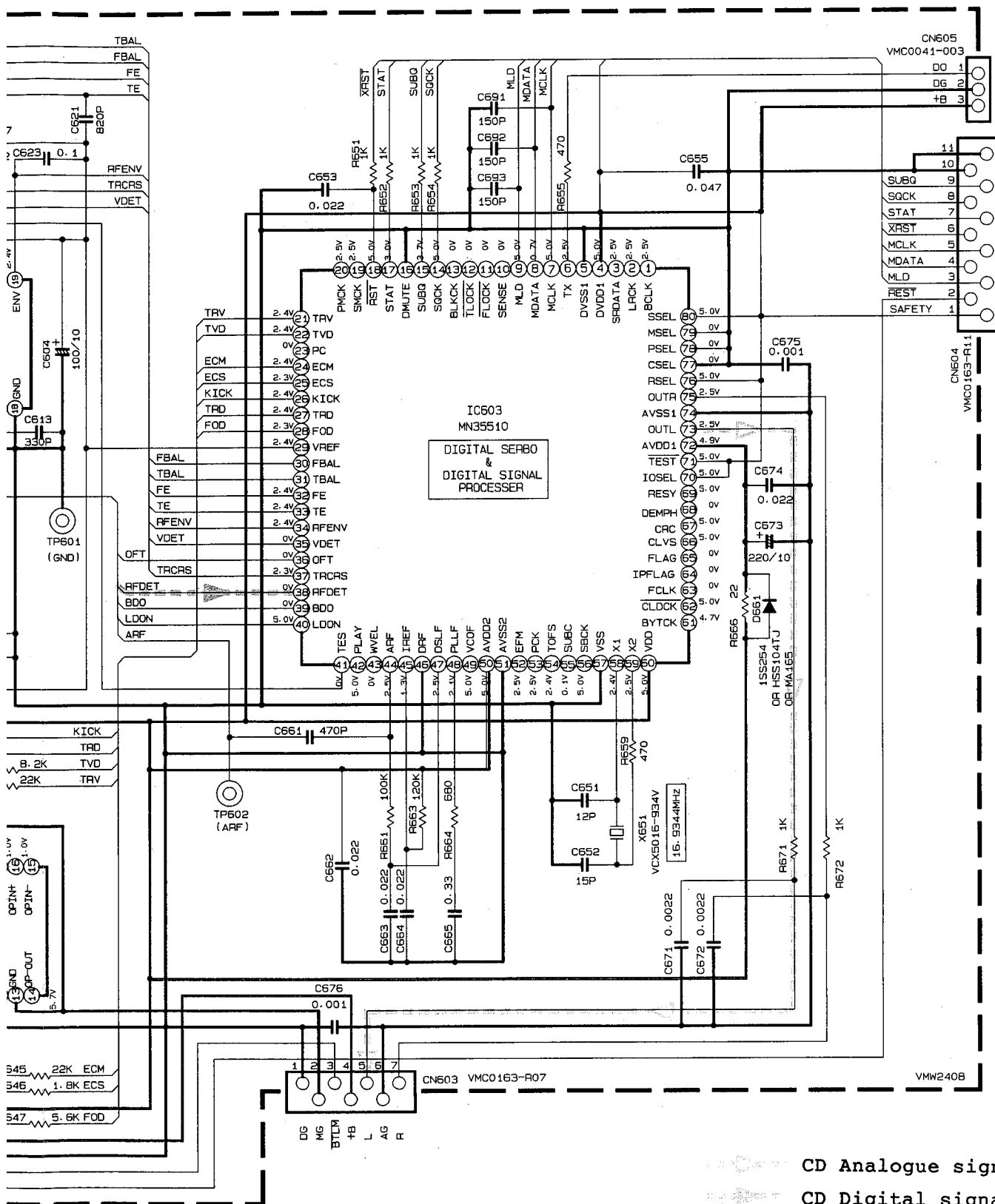


NOTES

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

Fig. 11-4

5 6 7 8 9 10

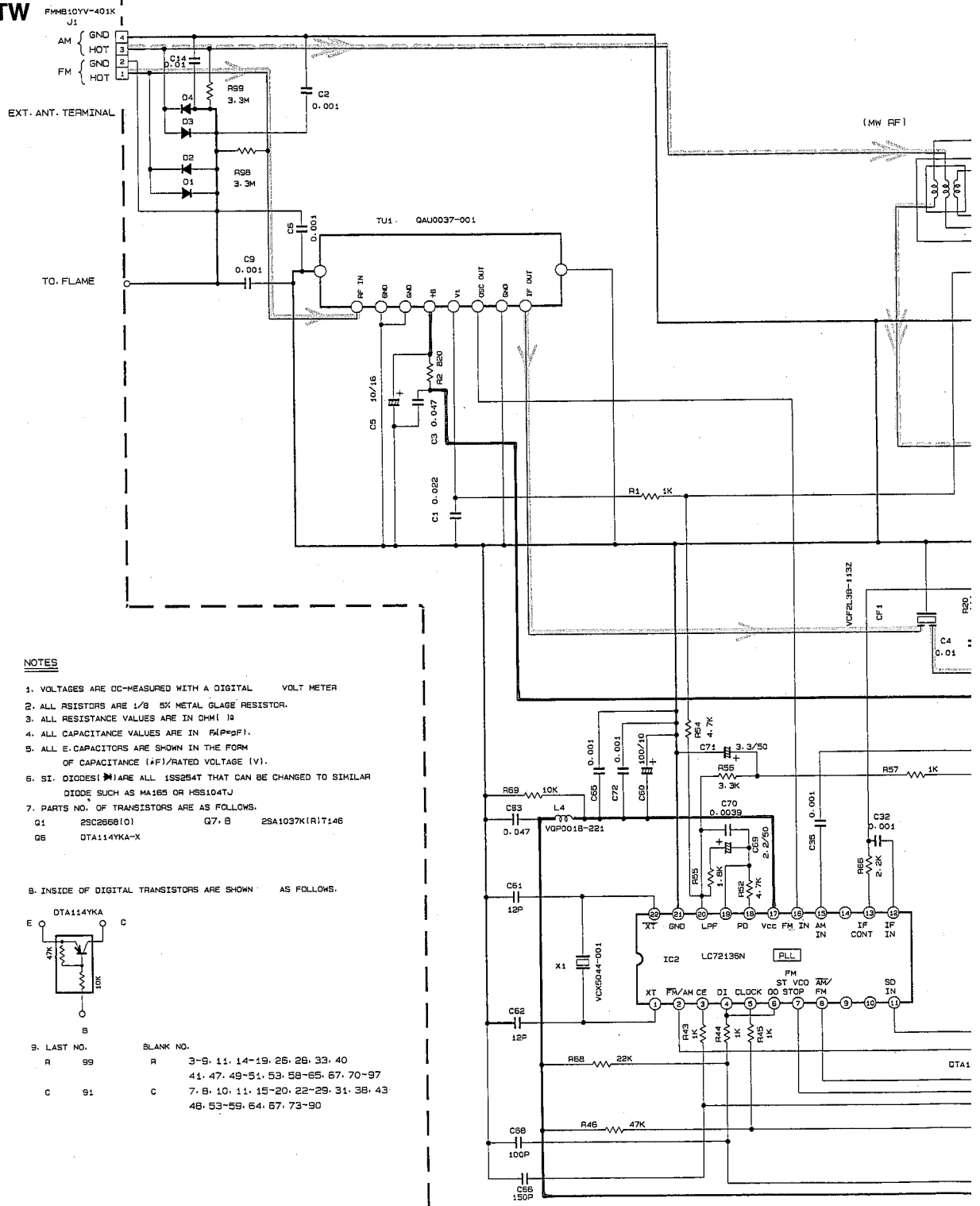


CD Analogue signal

CD Digital signal

+B Line

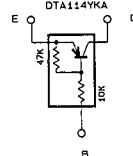
Tuner Circuit:
Drawing No.
VDH1038-301TW



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RESISTORS ARE 1/8 5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHMS (Ω)
4. ALL CAPACITANCE VALUES ARE IN PICO (P).
5. ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (PF)/RATED VOLTAGE (V).
6. SI. DIODES (D1-D4) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104TJ
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
 Q1 2SC2656(D) Q7,8 2SA1037K(R)T146
 Q5 DTA114YKA-X

8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



9. LAST NO.	BLANK NO.
R 99	R 3-6, 11, 14-19, 26, 28, 33, 40
	41, 47, 49-51, 53, 58-65, 67, 70-97
C 91	C 7, 8, 10, 11, 15-20, 22-29, 31, 38, 43
	48, 53-59, 64, 67, 73-90

CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
IC2	FM NO SIGNAL	2.4	0	0	1.1	5.0	1.1	3.7	3.7	0	0	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7		

Tp No.
 PIN NAME
 FM 87.5M
 AM 520KH

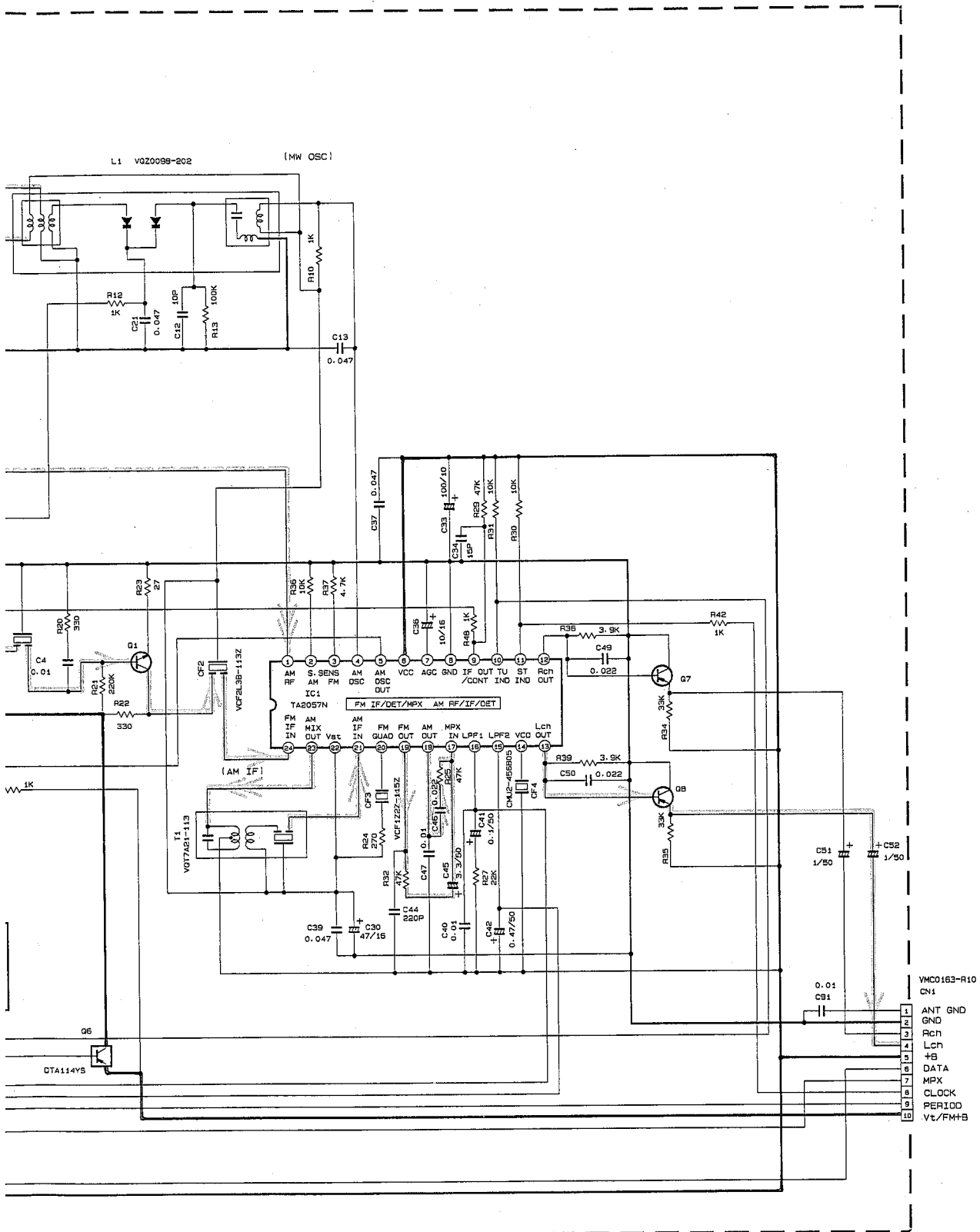
6

7

8

9

10



Tr No.	Q1	Q5	Q7	Q8
PIN NAME	1	2	3	4
FM 87.5MHz	0	7	8	9
AM 520KHz	0	7	8	9

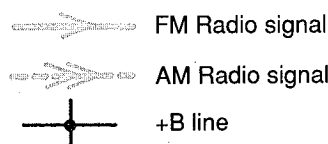


Fig. 11-5

5 6 7 8 9 10

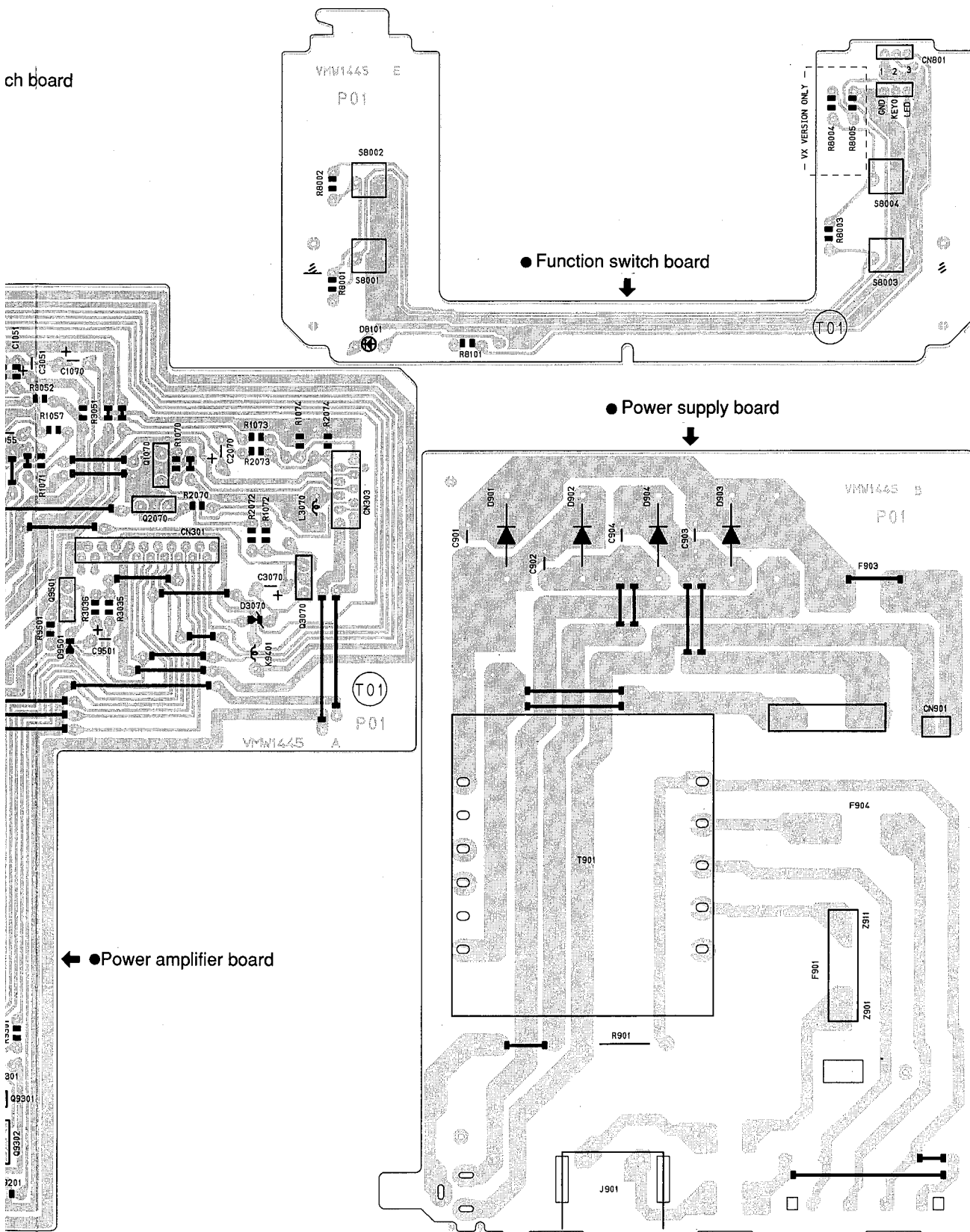


Fig. 12-1

■ LCD & System CPU Board: Block No. 02

● LCD back light board

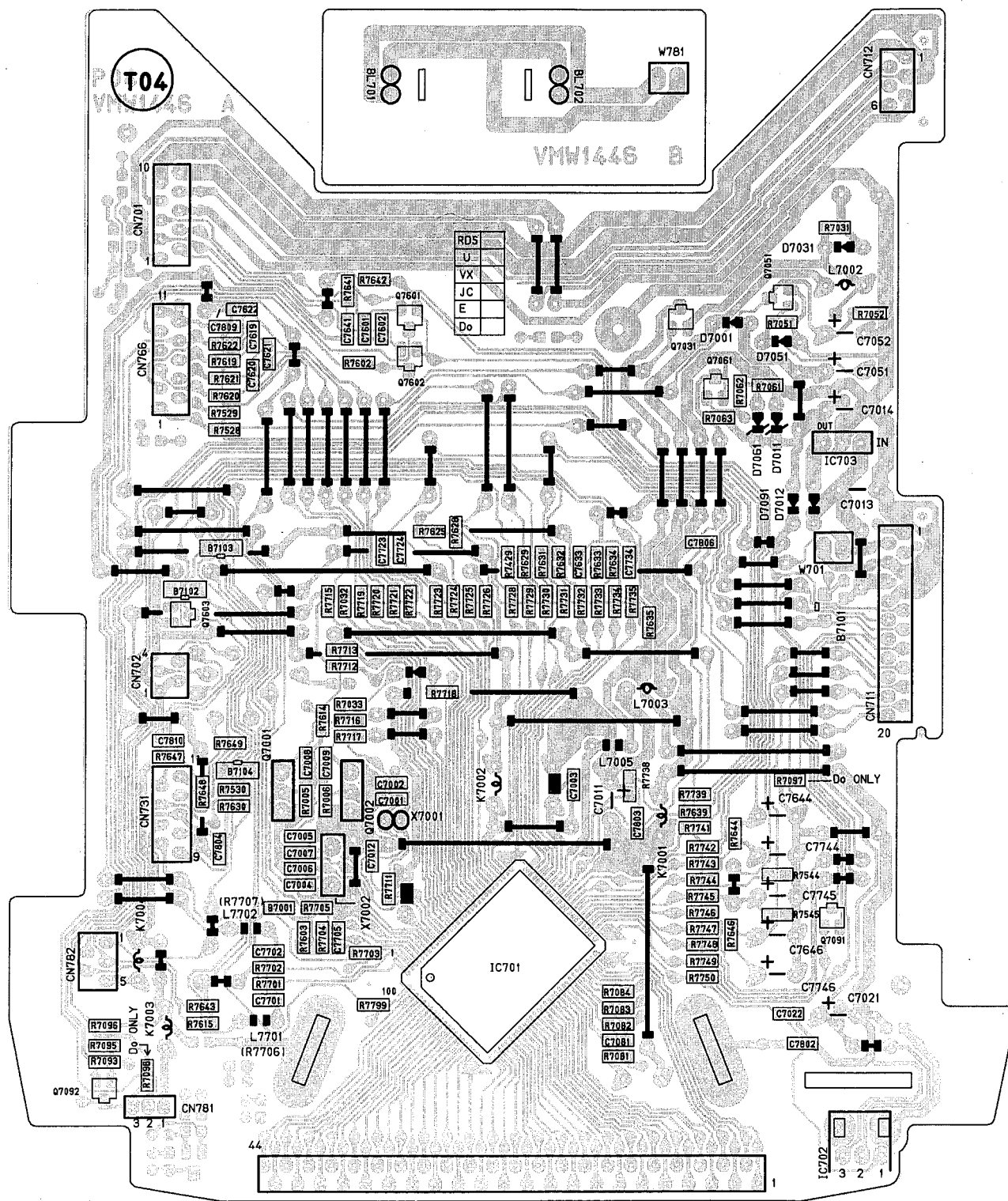


Fig. 12-2

6

7

8

9

10

■ CD Servo Control Board: Block No. **03**

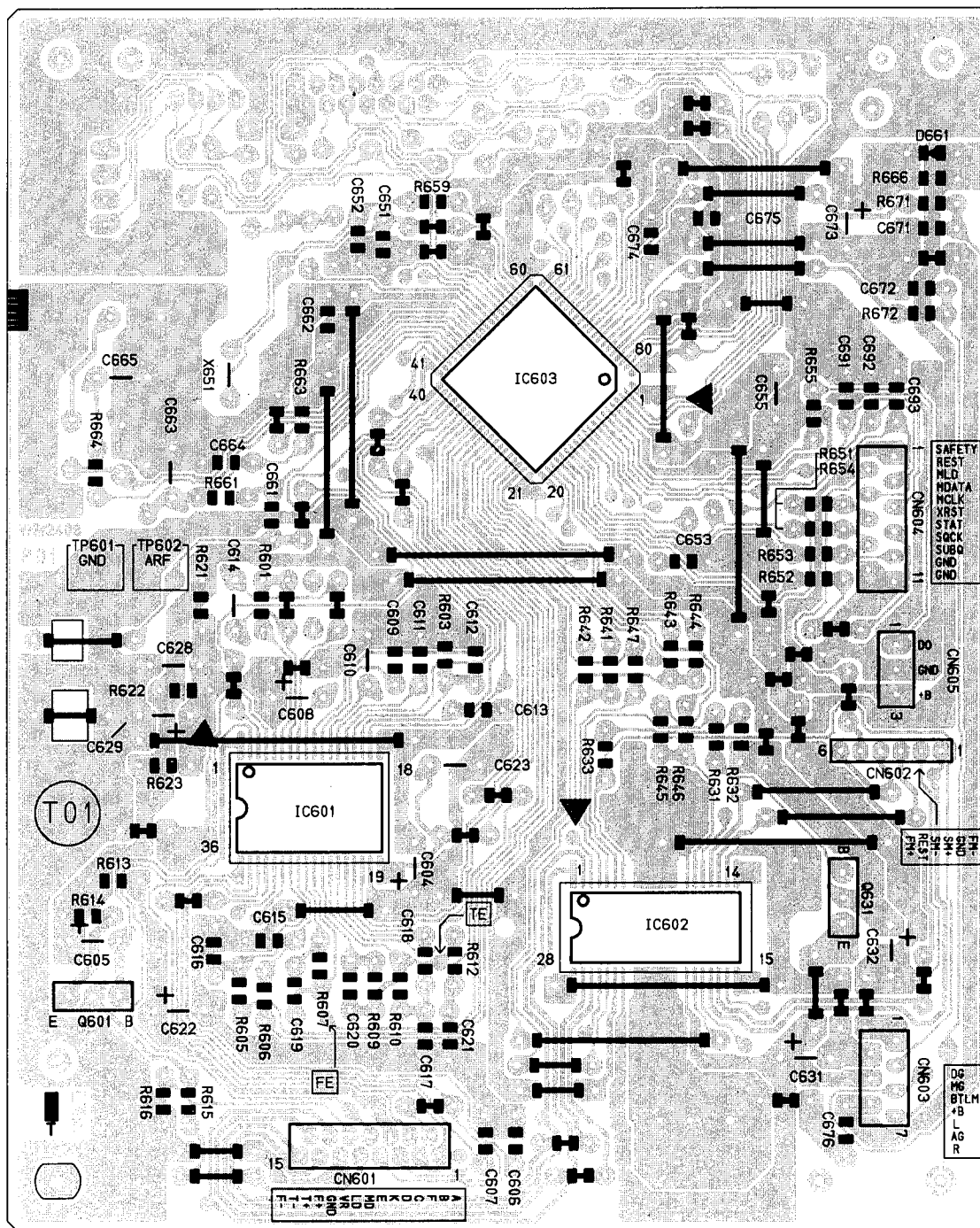


Fig. 12-3

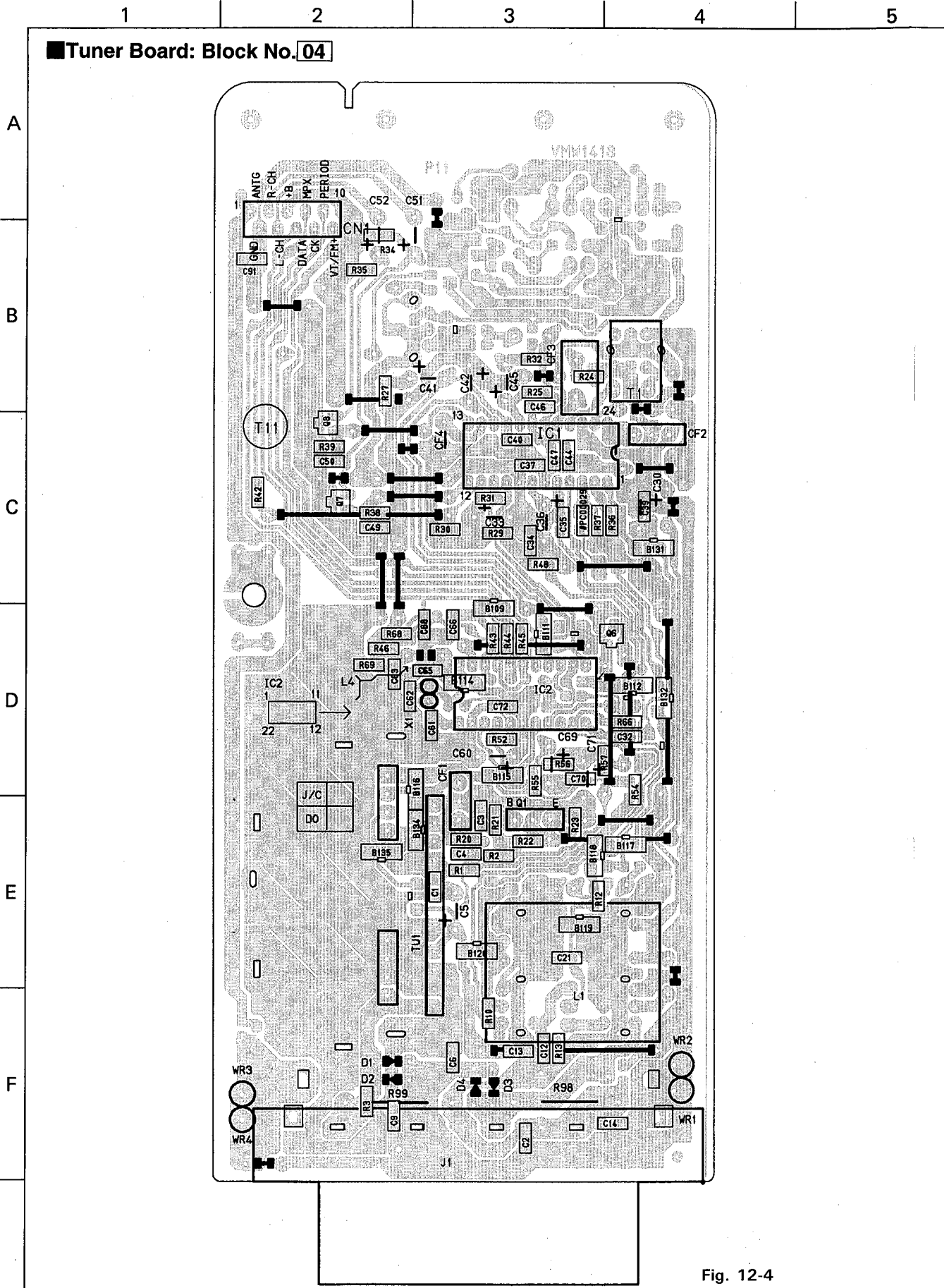


Fig. 12-4

《Cassette Mechanism》

■ Reel Pulse Board: Block No. 05

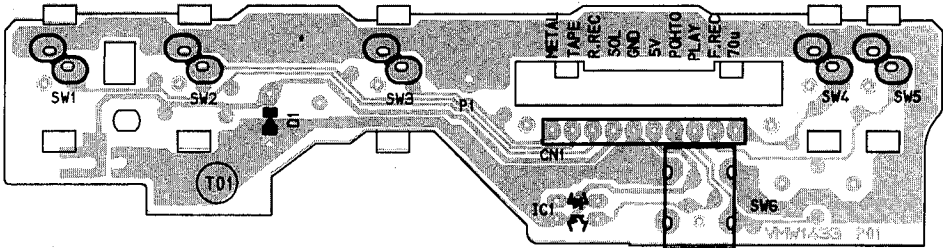
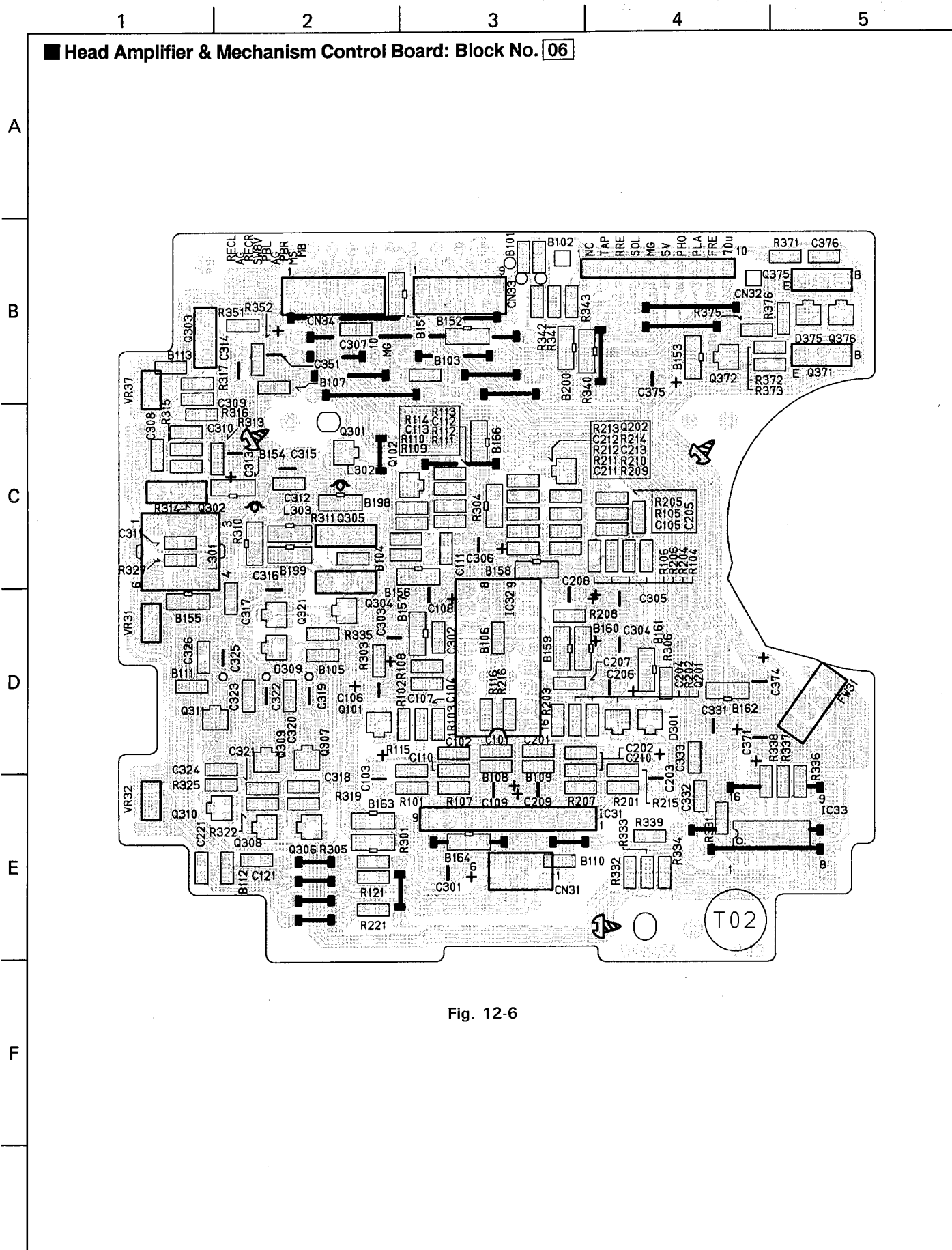


Fig. 12-5



13. Electrical Parts List

Main Board

BLOCK NO. 01111111					BLOCK NO. 01111111				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
BL701	QLL0019-001	P.LAMP			C3021	QET41CM-476	E CAPACITOR	47MF 20% 16V	
BL702	QLL0019-001	P.LAMP			C3022	QET41CM-476	E CAPACITOR	47MF 20% 10V	
C 901	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V		C3031	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C 902	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V		C3032	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C 903	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V		C3033	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
C 904	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V		C3034	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
CN301	VMC0314-S20	CONNECTOR			C3035	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
CN302	VMC0314-S06	CONNECTOR			C3036	QET41CM-106	E CAPACITOR	10MF 20% 16V	
CN303	VMC0163-010	CONNECTOR			C3037	QET41CM-106	E CAPACITOR	10MF 20% 16V	
CN304	VMC0163-007	CONNECTOR			C3041	QET41EM-106	E CAPACITOR	10MF 20% 25V	
CN801	VMC0289-S03K	CONNECTOR			C3051	QET41CM-476	E CAPACITOR	47MF 20% 16V	
CN802	VMC0163-R05	CONNECTOR			C3052	QET41CM-476	E CAPACITOR	47MF 20% 16V	
CN901	VMC0040-002	CONNECTOR			C3070	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
C1001	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V		C3081	QET41CM-227	E CAPACITOR	220MF 20% 16V	
C1002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V		C3083	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
C1003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V		C3084	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
C1006	QTE1C03-106Z	E.CAPACITOR	.082MF 5% 50V		C3085	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
C1021	QFN41HJ-823	M.CAPACITOR	.082MF 5% 50V		C3086	QET41EM-106	E CAPACITOR	10MF 20% 25V	
C1022	QFN41HJ-823	M.CAPACITOR	.082MF 5% 50V		C3087	QETC1HM-2247M	E CAPACITOR	.22MF 20% 50V	
C1025	QTE1A03-226Z	E CAPACITOR			C3091	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
C1026	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V		C7810	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C1051	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V		C8011	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C1053	QTE1C03-106Z	E.CAPACITOR			C8012	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C1054	QFN81HJ-392	M.CAPACITOR	3900PF 5% 50V		C9001	QET41CM-226	E CAPACITOR	22MF 20% 16V	
C1055	QET41EM-475	E CAPACITOR	4.7MF 20% 25V		C9003	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C1056	QTE1C03-106Z	E.CAPACITOR			C9004	QCB81HK-221Y	C.CAPACITOR	220PF 10% 50V	
C1070	QET41EM-475	E CAPACITOR	4.7MF 20% 25V		C9201	QET41CM-476	E CAPACITOR	47MF 20% 16V	
C1082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		C9202	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C1083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		C9203	QET41CM-106	E CAPACITOR	10MF 20% 16V	
C1084	QFN41HJ-472	M.CAPACITOR	4700PF 5% 50V		C9301	QET41AM-107	E CAPACITOR	100NF 20% 10V	
C2001	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V		C9302	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C2002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V		C9501	QET41AM-477	E CAPACITOR	470MF 20% 10V	
C2003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V		A D 901	6A10E2	SI DIODE		
C2006	QTE1C03-106Z	E.CAPACITOR			A D 902	6A10E2	SI DIODE		
C2021	QFN41HJ-823	M.CAPACITOR	.082MF 5% 50V		A D 903	6A10E2	SI DIODE		
C2022	QFN41HJ-823	M.CAPACITOR	.082MF 5% 50V		A D 904	6A10E2	SI DIODE		
C2025	QTE1A03-226Z	E CAPACITOR			D3021	MT24-3JB	ZENER DIODE		
C2026	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V		D3031	1N4148M-T2	SI DIODE		
C2051	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V		D3032	1N4148M-T2	SI DIODE		
C2053	QTE1C03-106Z	E.CAPACITOR			D3033	1N4148M-T2	SI DIODE		
C2054	QFN81HJ-392	M.CAPACITOR	3900PF 5% 50V		D3034	1N4148M-T2	SI DIODE		
C2055	QET41EM-475	E CAPACITOR	4.7MF 20% 25V		D3070	MT26-8JB	ZENER DIODE		
C2056	QTE1C03-106Z	E.CAPACITOR			D3090	MT26-8JB	ZENER DIODE		
C2070	QET41EM-475	E CAPACITOR	4.7MF 20% 25V		D8101	L-34ID-T12	LED	STANDBY LED RED	
C2082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		D9001	1N4148M-T2	SI DIODE		
C2083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		D9002	MT28-2JC	ZENER DIODE		
C2084	QFN41HJ-472	M.CAPACITOR	4700PF 5% 50V		D9003	MT10JAT-77	ZENER DIODE		
C3001	VCE101E-68B	E CAPACITOR			D9201	MT24-3JB	ZENER DIODE		
C3002	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V		D9301	MT23-9JB	ZENER DIODE		
C3003	QET41CM-107	E CAPACITOR	100NF 20% 16V		D9302	1N4148M-T2	SI DIODE		
C3004	QETC1AM-337ZN	E CAPACITOR	330NF 20% 10V		D9303	1N4148M-T2	SI DIODE		
C3005	QETC1AM-336ZN	E CAPACITOR	33MF 20% 10V		D9501	1N4148M-T2	SI DIODE		
C3006	QETC1HM-225ZM	E CAPACITOR	2.2MF 20% 50V		A IC 31	LA4705NA	IC		
C3010	QETC1HM-684ZN	E.CAPACITOR	.68MF 20% 50V		IC 32	BA15218N	IC		
C3011	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V		IC 35	BA15218N	IC		

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
IC	38	BH3852S	IC		
J	901	QNC0002-001	AC SOCKET		
J	5801	QSW0547-001	ROTARY ENCODER		
J	3001	QNW0090-001	PIN JACK	KUNMING HSP-242	
J	3002	QNB0035-001	SPK TERMINAL	KUNMING HSP-324V	
J	3003	VMJ4026-001	HEADPHONE JACK		
K	9401	VQZ0107-002	INDUCTOR		
L	3070	VQZ0048-007	INDUCTOR		
Q	1010	2S02144S(VW)	TRANSISTOR		
Q	1031	KTC3199(GL)-T	TRANSISTOR		
Q	1041	2SC2001(L,K)	TRANSISTOR		
Q	1070	KTC3199(GL)-T	TRANSISTOR		
Q	1090	KTC3199(GL)-T	TRANSISTOR		
Q	2010	2SD2144S(VW)	TRANSISTOR		
Q	2031	KTC3199(GL)-T	TRANSISTOR		
Q	2041	2SC2001(L,K)	TRANSISTOR		
Q	2070	KTC3199(GL)-T	TRANSISTOR		
Q	2090	KTC3199(GL)-T	TRANSISTOR		
Q	3010	KTC3199(GL)-T	TRANSISTOR		
Q	3041	KRA101M-T	TRANSISTOR		
Q	3070	KRA101M-T	TRANSISTOR		
Q	3090	KRA101M-T	TRANSISTOR		
Q	7603	2SC2412K1	TRANSISTOR		
Q	9001	2SB156S(E,F)	TRANSISTOR		
Q	9002	KTC3199(GL)-T	TRANSISTOR		
Q	9003	KTA1267(YG)-T	TRANSISTOR		
Q	9004	KRC114M-T	TRANSISTOR		
Q	9005	DTA144TSTP	TRANSISTOR		
Q	9006	KTC3199(GL)-T	TRANSISTOR		
Q	9007	KTC3199(GL)-T	TRANSISTOR		
Q	9201	2SA1359(OY)	TRANSISTOR		
Q	9202	KTC3199(GL)-T	TRANSISTOR		
Q	9301	KTA1267(YG)-T	TRANSISTOR		
Q	9302	KTC3199(GL)-T	TRANSISTOR		
Q	9501	2SC2001(L,K)	TRANSISTOR		
R	901	QR29037-335	COMP RESISTOR	3.3M 1/0W	
R	1001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	1002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	1003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R	1004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R	1011	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R	1012	QRD161J-623	CARBON RESISTOR	62K 5% 1/6W	
R	1013	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	1014	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R	1015	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	1022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R	1023	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R	1024	QRD161J-202	CARBON RESISTOR	20K 5% 1/6W	
R	1026	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	1027	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	1028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	1029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	1031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	1032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	1033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	1041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	1051	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R	1052	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	1054	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	1055	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R	1056	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	1057	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R	1070	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R	1071	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	1072	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R	1073	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	1074	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R	1082	QRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
R	1083	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R	1090	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	1091	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	1092	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	2001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	2002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R	2003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R	2004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R	2011	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R	2012	QRD161J-623	CARBON RESISTOR	62K 5% 1/6W	
R	2013	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	2014	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R	2015	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	2022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R	2023	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R	2024	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R	2026	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	2027	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	2028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	2029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	2031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	2032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	2033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	2041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	2051	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R	2052	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	2054	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R	2055	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R	2056	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	2057	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R	2070	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
R	2071	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R	2072	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R	2073	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	2074	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R	2082	QRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
R	2083	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R	2090	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	2091	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R	2092	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R	3001	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R	3010	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R9301	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R9302	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
R9303	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R9304	QRD161J-390	CARBON RESISTOR	39 5% 1/6W	
R9401	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/6W	
R9501	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
S8001	QSQ4H11-V12Z	TACT SW	POWER	
S8002	QSQ4H11-V12Z	TACT SW	AUX	
S8003	QSQ4H11-V12Z	TACT SW	VOLUME+	
S8004	QSQ4H11-V12Z	TACT SW	VOLUME-	
S8011	QSQ4H11-V12Z	TACT SW	TUNER	
S8012	QSQ4H11-V12Z	TACT SW	UP	
S8013	QSQ4H11-V12Z	TACT SW	STOP	
S8014	QSQ4H11-V12Z	TACT SW	TAPE	
S8015	QSQ4H11-V12Z	TACT SW	CD	
S8016	QSQ4H11-V12Z	TACT SW	DOWN	
S8017	QSQ4H11-V12Z	TACT SW	CLOCK	
S8018	QSQ4H11-V12Z	TACT SW	REC	
S8019	QSQ4H11-V12Z	TACT SW	SBASS	
S8020	QSQ4H11-V12Z	TACT SW	SMOOSSE	
S8061	QSP2K31-V01	PUSH SWITCH	CD DOOR	
Z 901	EMG7331-003Z	FUSE CLIP		
Z 902	EMG7331-003Z	FUSE CLIP		
Z 911	EMG7331-003Z	FUSE CLIP		
Z 912	EMG7331-003Z	FUSE CLIP		

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R3021	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3022	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R3031	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3032	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3033	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R3034	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R3035	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R3036	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W	
R3051	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3052	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R3053	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R3081	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3082	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R3083	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R3084	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R3090	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R7647	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7648	NRSA02J-394NY	MG RESISTOR	390K 5% 1/10W	
R7649	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R8001	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8002	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8003	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R8004	QRD161J-123	CARBON RESISTOR	VERSION	
R8005	QRD161J-823	CARBON RESISTOR	VERSION	
R8011	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8012	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R8013	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
R8014	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R8015	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R8016	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R8017	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R8018	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R8019	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R8101	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
R9001	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R9002	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R9003	QRD161J-1R0	CARBON RESISTOR	1.0 5% 1/6W	
R9004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R9005	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R9006	QRD161J-242	CARBON RESISTOR	2.4K 5% 1/6W	
R9007	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R9008	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
R9012	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R9013	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R9014	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R9015	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R9016	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R9017	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R9018	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9019	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
R9021	QRZ0077-680	F.RESISTOR	68 1/6W	
R9102	QRZ0077-5R6X	F.RESISTOR	5.6 1/6W	
R9201	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9202	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R9203	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	

LCD & System CPU Board

BLOCK NO. 02					BLOCK NO. 02				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN701	VMC0163-R10	CONNECTOR	TO TUNER PWB		D7051	IN4148M-T2	SI DIODE	RESET	
CN711	VMC0314-P20	CONNECTOR	TO AMP PWB CONT		D7061	MT75.1JC	ZENER DIODE	BUCKUP CONT.	
CN712	VMC0314-P06	CONNECTOR	TO AMP PWB SIG.		D7091	IN4148M-T2	SI DIODE	US5V	
CN731	VMC0163-009	CONNECTOR	TO MECHA PWB		IC701	UPD78064GF-106	IC	SYSTEM MICON	
CN766	VMC0163-R11	CONNECTOR	TO CD PWB		IC702	PIC-21043SP	REMOKON SENSOR		
CN781	VMC0289-P03	CONNECTOR	TO FRONT SW PWB		IC703	KIA78S06P-T	IC	US6V REG	
CN782	VMC0163-005	CONNECTOR	TO TOP SW PWB		K7001	VQZ0107-002	INDUCTOR	ICVSS	
C7001	NCS21HJ-180AY	C CAPACITOR	CLOCK		K7002	VQZ0107-002	INDUCTOR	AVSS	
C7002	NCS21HJ-180AY	C CAPACITOR	CLOCK		K7003	VQZ0107-002	INDUCTOR		
C7003	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		K7004	VQZ0107-002	INDUCTOR		
C7004	NCS21HJ-360AY	C CAPACITOR	MAIN CLOCK SHIF		L7002	VQZ0033-100Z	INDUCTOR	US5V	
C7005	NCS21HJ-390AY	C CAPACITOR	MAIN CLOCK SHIF		L7003	VQZ0033-100Z	INDUCTOR	AVDD	
C7006	NCS21HJ-200AY	C CAPACITOR	MAIN CLOCK		L7005	VQZ0018-4R7	INDUCTOR	AVREF	
C7007	NCS21HJ-220AY	C CAPACITOR	MAIN CLOCK		L7701	VQZ0018-4R7	INDUCTOR		
C7008	NCS21HK-102AY	C CAPACITOR	1000PF 10% 50V		L7702	VQZ0018-4R7	INDUCTOR		
C7009	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		Q7001	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
C7011	QER41AM-107	E CAPACITOR	100MF 20% 10V		Q7002	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
C7012	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		Q7031	2SA1037AKCRS)-X	CHIP TRANSISTOR	SW5V	
C7013	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V		Q7051	DT114TKT146	TRANSISTOR	RESET SW	
C7014	QER41CM-106	E CAPACITOR	10MF 20% 16V		Q7061	2SC2412KK1	TRANSISTOR	BUCKUP CONT	
C7021	QER41CM-176M	E CAPACITOR	47MF 20% 16V		Q7091	2SC2412KK1	TRANSISTOR	POUT DRIVER	
C7022	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		Q7092	2SA1037AKCRS)-X	CHIP TRANSISTOR	STANDBY LED CON	
C7031	QETBQJM-228N	E CAPACITOR	BACKUP CAPACITO		Q7601	DT144TKA-X	TRANSISTOR		
C7051	QER61HM-684ZM	E CAPACITOR	.68MF 20% 50V		Q7602	DT144TKA-X	TRANSISTOR		
C7052	QER41HM-225	E CAPACITOR	2.2MF 20% 50V		R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
C7081	NCB21HK-104	C CAPACITOR	AM LCD NOISE		R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
C7601	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7031	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
C7602	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C7619	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V		R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C7620	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V		R7051	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C7621	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V		R7052	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C7622	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V		R7061	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
C7633	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7062	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
C7641	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7063	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
C7644	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V		R7081	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
C7646	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V		R7082	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
C7701	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7083	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
C7702	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V		R7084	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
C7705	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V		R7093	NRSA02J-153NY	MG RESISTOR	STANDBY LED CON	
C7723	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7095	NRSA02J-333NY	MG RESISTOR	STANDBY LED CON	
C7724	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7096	NRSA02J-102NY	MG RESISTOR	STANDBY LED CON	
C7734	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7429	NRSA02J-913NY	RESISTOR	91K 5% 1/10W	
C7744	QER41HM-225	E CAPACITOR	2.2MF 20% 50V		R7528	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
C7745	QER61HM-335ZM	E CAPACITOR	3.3MF 20% 50V		R7529	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
C7746	QER41HM-225	E CAPACITOR	2.2MF 20% 50V		R7530	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
C7802	NCB21HK-103AY	C CAPACITOR	MICOM NOISE		R7544	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
C7803	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7545	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
C7804	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		R7602	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
C7809	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		R7614	NRSA02J-103NY	MG RESISTOR	EXCEPT RDS	
D1701	VGL1221-002	LCD	44PIN		R7615	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
D7001	IN4148M-T2	SI DIODE	US5V		R7619	NRSA02J-123NY	MG RESISTOR	1.2K 5% 1/10W	
D7011	MT78.2JB	ZENER DIODE	SHORT HOGO		R7620	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
D7012	IN4148M-T2	SI DIODE	SHORT HOGO		R7621	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
D7031	IN4148M-T2	SI DIODE	BUCKUP		R7622	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
D7032	IN4148M-T2	SI DIODE	CLOCK		R7625	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	

[illegible]

REF.	PARTS NO.	PART'S NAME	REMARKS	SUFFIX
R7628	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R7629	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7630	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
R7631	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7632	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7633	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7634	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7635	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7639	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7641	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7642	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7643	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7644	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R7646	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R7701	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7702	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7704	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7705	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7711	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7712	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7713	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7717	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7720	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7723	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7724	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7725	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7728	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7729	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7730	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7734	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7735	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7738	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7739	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7741	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7742	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7743	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7744	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
R7745	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7746	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7747	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7748	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R7749	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R7750	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7759	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	

BLOCK NO. 03						BLOCK NO. 03					
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 604	QEK51AM-107	E CAPACITOR	100MF 20% 10V			R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W		
C 605	QET41EM-106	E CAPACITOR	10MF 20% 25V			R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W		
C 606	QCB81HK-102Y	C CAPACITOR	1000PF 10% 50V			R 609	QRD161J-114	CARBON RESISTOR	110K 5% 1/6W		
C 607	QCB81HK-102Y	C CAPACITOR	1000PF 10% 50V			R 610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W		
C 608	QET41HM-105	E CAPACITOR	1.0MF 20% 50V			R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
C 609	QCB81HK-101Y	C CAPACITOR	100PF 10% 50V			R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W		
C 610	QFLC1HJ-273ZM	M CAPACITOR	.027MF 5% 50V			R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W		
C 611	QCB81CM-222Y	C CAPACITOR	2200PF 20% 16V			R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W		
C 612	QCB81CM-103Y	C CAPACITOR	.010MF 20% 16V			R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W		
C 613	QCB81HK-331Y	C CAPACITOR	330PF 10% 50V			R 621	QRD161J-330	CARBON RESISTOR	33 5% 1/6W		
C 614	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V			R 622	QRD161J-330	CARBON RESISTOR	33 5% 1/6W		
C 615	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%			R 623	QRD161J-330	CARBON RESISTOR	33 5% 1/6W		
C 616	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%			R 631	QRD161J-331	CARBON RESISTOR	330 5% 1/6W		
C 617	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%			R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
C 618	QCB81CM-222Y	C CAPACITOR	2200PF 20% 16V			R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W		
C 619	QCB81HK-271Y	C CAPACITOR	270PF 10% 50V			R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W		
C 620	QCS11HJ-470	C CAPACITOR	47PF 5% 50V			R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
C 621	QCB81HK-821Y	C CAPACITOR	820PF 10% 50V			R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W		
C 622	QET41AM-476	E CAPACITOR	47MF 20% 10V			R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
C 623	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V			R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
C 628	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V			R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W		
C 629	QET41AM-107	E CAPACITOR	100MF 20% 10V			R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
C 631	QET41AM-477	E CAPACITOR	470MF 20% 10V			R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
C 632	QEK51AM-107	E CAPACITOR	100MF 20% 10V			R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
C 631	QCS11HJ-120	C CAPACITOR	12PF 5% 50V			R 653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
C 632	QCS11HJ-150	C CAPACITOR	15PF 5% 50V			R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
C 633	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%			R 655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W		
C 635	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V			R 659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W		
C 661	QCB81HK-471Y	C CAPACITOR	470PF 10% 50V			R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
C 662	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%			R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		
C 663	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V			R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W		
C 664	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%			R 666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W		
C 665	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V			R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
C 671	QCB81CM-152Y	C CAPACITOR	1500PF 20% 16V			R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
C 672	QCB81CM-152Y	C CAPACITOR	1500PF 20% 16V			X 651	VCX5016-934V	CRYSTAL	16.9344MHZ		
C 673	QTE1C05-227	E CAPACITOR	.022MF +80:-20%								
C 674	QCB81EZ-223	C CAPACITOR	AG-DG								
C 675	QCB81HK-102Y	C CAPACITOR	AG-DG								
C 676	QCB81HK-102Y	C CAPACITOR	DENGEN NOISE								
C 691	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE								
C 693	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE								
CN601	QGF1008F1-15	15PIN CONNECTOR	TO RF								
CN603	VNC0163-R07	CONNECTOR	TO AUDIO								
CN604	VNC0163-R11	CONNECTOR	TO MICRON								
CN605	VNC0041-003	CONNECTOR	TO DIGITAL OUT								
D 661	1SS133	SI DIODE	RF AMP								
IC601	AN8806SB	IC	DRIVER								
IC602	BA6897FP	IC	1CHIP PROCESSOR								
IC603	MN35510	IC									
Q 601	2SA952(L-K)	TRANSISTOR									
Q 631	2SA952(L-K)	CARBON RESISTOR	12K 5% 1/6W								
R 601	QRD161J-123	CARBON RESISTOR	1.2M 5% 1/6W								
R 603	QRD161J-125	CARBON RESISTOR	130K 5% 1/6W								
R 605	QRD167J-134	CARBON RESISTOR	1.0K 5% 1/6W								

Tuner Board

BLOCK NO. 04					BLOCK NO. 06						
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V			C 93	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 2	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			C 94	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V			CF 1	VC2M3B-104	CERAMIC FILTER	FM IF	
	C 4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			CF 2	VC2S3B-102	C FILTER	FM IF	
	C 5	QEK41CM-106	E.CAPACITOR	10MF 20% 16V			CF 3	VC1Z27-115Z	CERAMIC FILTER		
	C 6	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			CF 4	CMU2-456B05	CERA LOCK		
	C 7	NCB21HJ-102AY	C CAPACITOR	1000PF 5% 50V			CN 1	VMO0163-R10	CONNECTOR		
	C 8	NCB21HJ-150AY	C.CAPACITOR	15PF 5% 50V			D 1	1SS133	SI DIODE		
	C 9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			D 2	1SS133	SI DIODE		
	C 11	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			D 3	1SS133	SI DIODE		
	C 12	NC121CH-150AY	C CAPACITOR	15PF +50%-10% 1			D 4	1SS133	SI DIODE		
	C 13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V			IC 1	TA2057N	IC		
	C 14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			IC 2	LC72136N	IC		
	C 15	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			J 1	EMB41YV-302K	ANT TERMINAL	AM/FM ANT	
	C 16	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			L 1	VQZ0098-102	COIL BLOCK	MW/LW RF/OSC	
	C 18	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			L 4	VQZ0018-221	INDUCTOR	114KHZ TRAP	
	C 19	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V			L 10	VQZ0069-002	TRAP COIL		
	C 21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V			L 11	VQPO018-2R7	INDUCTOR		
	C 30	QEK41CM-476	E.CAPACITOR	47MF 20% 16V			Q 1	2SC2668(O)	TRANSISTOR		
	C 31	NCB21HJ-390AY	C CAPACITOR	39PF 5% 50V			Q 2	DTA114YKA-X	TRANSISTOR		
	C 32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			Q 3	KTC3199(GL)-T	TRANSISTOR		
	C 33	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V			Q 4	KTC3199(GL)-T	TRANSISTOR		
	C 34	NCB21HJ-150AY	C.CAPACITOR	15PF 5% 50V			Q 6	DTA114YKA-X	TRANSISTOR		
	C 35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			Q 7	2SA1037K(R)	TRANSISTOR		
	C 36	QEK41CM-106	E.CAPACITOR	10MF 20% 16V			Q 8	2SA1037K(R)	TRANSISTOR		
	C 37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V			R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	C 39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V			R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
	C 40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			R 3	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W	
	C 41	QEK41HM-104	E.CAPACITOR	.010MF 20% 50V			R 10	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	C 42	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V			R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	C 43	QEK61HM-335Z	E.CAPACITOR	3.3MF 20% 50V			R 13	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	C 44	NCB21HJ-221AY	C CAPACITOR	220PF 5% 50V			R 15	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	C 45	QEK41CM-106	E.CAPACITOR	10MF 20% 16V			R 16	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	C 46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V			R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	C 47	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	C 49	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V			R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	C 50	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V			R 23	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	C 51	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V			R 24	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	C 52	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V			R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	C 53	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V			R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	C 55	NCB21HJ-120AY	C CAPACITOR	12PF 5% 50V			R 27	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	C 60	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V			R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	C 61	NCB21HJ-120AY	C CAPACITOR	12PF 5% 50V			R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	C 62	NCB21HJ-120AY	C CAPACITOR	12PF 5% 50V			R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	C 63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V			R 34	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	C 65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	C 66	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V			R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	C 67	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V			R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	C 68	NCB21HJ-101AY	C CAPACITOR	100PF 5% 50V			R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	C 69	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V			R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	C 70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V			R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	C 71	QEK61HM-335Z	E.CAPACITOR	3.3MF 20% 50V			R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	C 72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V			R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	C 91	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	C 92	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V			R 46	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	

Reel Pulse Board

BLOCK NO. 04

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 48	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 54	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 55	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 56	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 60	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 61	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 65	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 68	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 74	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 75	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
T 1	VQT7A21-113	IFT		
TU 1	QAU0034-001	FRONT END	FM TU	
X 1	VCK5044-001	CRYSTAL		

BLOCK NO. 05

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN 1	EMV7159-010	TOP PLUG ASSY		
D 1	1SR139-100	SI DIODE		
IC 1	SG-105F3-BB-C	PHOTO SENSOR		
P 1	VMZ0015-002	POST PIN		
SW 1	MXS00220MVLO	CASSETTE SWITCH	R.REC	
SW 2	MXS00220MVLO	CASSETTE SWITCH	TAPE	
SW 4	MXS00220MVLO	CASSETTE SWITCH	70U	
SW 5	MXS00220MVLO	CASSETTE SWITCH	F.REC	
SW 6	QSEC001-E03	SWITCH		

Head Amplifier & Mechanism Control Board

BLOCK NO. 06

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 101	NCS21HJ-821AY	C CAPACITOR	820PF 5% 50V	
C 102	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C 103	QEK40JH-227	C CAPACITOR	220PF 20% 6.3V	
C 104	NCS21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 105	NCS21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 106	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C 107	NCS21HJ-561AY	C CAPACITOR	560PF 5% 50V	
C 108	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 109	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 110	NCS21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C 111	NCS21HK-122AY	C CAPACITOR	1200PF 10% 50V	
C 112	NCS21EK-683AY	C CAPACITOR	.068MF 10% 25V	
C 113	NCS21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 121	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
C 201	NCS21HJ-821AY	C CAPACITOR	820PF 5% 50V	
C 202	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C 203	QEK40JH-227	E CAPACITOR	220MF 20% 6.3V	
C 204	NCS21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 205	NCS21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 206	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C 207	NCS21HJ-561AY	C CAPACITOR	560PF 5% 50V	
C 208	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 209	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 210	NCS21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C 211	NCS21HK-122AY	C CAPACITOR	1200PF 10% 50V	
C 212	NCS21EK-683AY	C CAPACITOR	.068MF 10% 25V	
C 213	NCS21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 221	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
C 301	QEK41AM-107ZN	E CAPACITOR	100MF 20% 10V	
C 302	NCS21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 303	QEK40JH-227	E CAPACITOR	220MF 20% 6.3V	
C 304	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
C 305	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
C 306	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
C 307	NCS21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 308	NCS21HK-562AY	C CAPACITOR	5600PF 10% 50V	
C 309	NCS21HK-562AY	C CAPACITOR	5600PF 10% 50V	
C 310	NCS21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 311	NCS21HK-682AY	C CAPACITOR	6800PF 10% 50V	
C 313	QEK41AM-107ZN	E CAPACITOR	100MF 20% 10V	
C 314	QC20203-155	ML.C CAPACITOR	1.5MF	
C 315	QC20203-155	ML.C CAPACITOR	1.5MF	
C 316	QFG32AJ-103ZN	PP CAPACITOR	.010MF 5% 100V	
C 318	NCS21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 319	QFG32AJ-821ZN	TF CAPACITOR	820PF 5% 100V	
C 321	NCS21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 322	QFG32AJ-152ZN	PP CAPACITOR	1500PF 5% 100V	
C 331	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
C 351	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C 371	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 374	QEK41AM-107ZN	E CAPACITOR	MOTOR +B	
C 375	QEK41AM-107ZN	E CAPACITOR	100MF 20% 10V	
C 376	NCS21HK-103AY	C CAPACITOR	.010MF 10% 50V	
CN 31	VMC0163-R06	CONNECTOR	PRI/HEAD	
CN 32	QGB2011M1-10	PWB CONECTOR	PRI/MECHA	

BLOCK NO. 06

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN 33	VMC0163-R09	CONNECTOR	PRI/MICON	
CN 34	VMC0163-R10	CONNECTOR	PRI/AMP	
D 301	MA152WA-TX	DIODE	SHORT TEST TALS	
D 309	MA704A	S.K.DIODE		
D 375	MA3051(M)	ZENER DIODE		
IC 31	BA3126N	IC	HEAD SW	
IC 32	AN7317	IC	PB&REC	
IC 33	BU4094BCF-X	IC		
L 301	QGR0620-001	OSC COIL(BIAS)		
L 303	VQP0033-100Z	INDUCTOR		
Q 101	FA1A4ZX	TRANSISTOR		
Q 102	FA1A4ZX	TRANSISTOR	REC EQ CONT.	
Q 201	FA1A4ZX	TRANSISTOR		
Q 202	FA1A4ZX	TRANSISTOR	REC EQ CONT.	
Q 301	FN1L4M	TRANSISTOR	REC EQ CONT.	
Q 302	2SC2001(L,K)	TRANSISTOR		
Q 303	2SC2001(L,K)	TRANSISTOR		
Q 304	2SC2001(L,K)	TRANSISTOR		
Q 305	2SC2001(L,K)	TRANSISTOR		
Q 306	2SC1623(6)	TRANSISTOR		
Q 307	2SC1623(6)	TRANSISTOR		
Q 308	2SC1623(6)	TRANSISTOR		
Q 309	2SC1623(6)	TRANSISTOR		
Q 321	FA1L4M	TRANSISTOR		
Q 323	2SC1623(6)	TRANSISTOR		
Q 371	2SA952(L,K)	TRANSISTOR	SHORT TEST TALS	
Q 372	FA1F4MX	C.D TRANSISTOR	MOTER+B	
Q 375	2SB562(C)	TRANSISTOR	SOLENOID DRIVE	
Q 376	2SC1623(6)	TRANSISTOR		
R 101	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
R 102	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 103	NRSA02J-242NYM	MG RESISTOR	2.4K 5% 1/10W	
R 104	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 105	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 106	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 107	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 108	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 109	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 110	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 111	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 112	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 113	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 114	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R 116	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 121	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 201	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
R 202	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 203	NRSA02J-242NYM	MG RESISTOR	2.4K 5% 1/10W	
R 204	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 205	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 206	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 207	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 208	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R 209	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R 210	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	

BLOCK NO. 00000000

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 211	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 212	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 213	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 214	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R 216	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 221	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 301	NRS181J-221NY	MG RESISTOR	220 5% 1/8W	
R 303	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R 304	NRS181J-101NY	MG RESISTOR	100 5% 1/8W	
R 305	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 306	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 310	NRS181J-560NY	MG RESISTOR	56 5% 1/8W	
R 311	NRS181J-560NY	MG RESISTOR	56 5% 1/8W	
R 313	NRSA02J-3R3NYM	MG RESISTOR	3.3 5% 1/10W	
R 314	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 315	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R 316	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 317	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R 319	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 322	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 327	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R 332	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 333	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 335	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 336	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 337	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 338	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 339	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 340	NRS181J-391NY	MG RESISTOR	390 5% 1/8W	
R 341	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 342	NRSA02J-203NY	MG RESISTOR	20K 5% 1/10W	
R 343	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R 351	NRSA02J-683NY	MG RESISTOR	SHORT TEST TAIS	
R 352	NRSA02J-912NY	MG RESISTOR	SHORT TEST TAIS	
R 371	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 372	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 375	NRSA02J-151NY	MG RESISTOR	150 5% 1/10W	
R 376	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
VR 31	QVPA603-503AZ	SEMI-V.RESISTOR	BIAS ADJ	
VR 32	QVPA603-503AZ	SEMI-V.RESISTOR	BIAS ADJ	
VR 37	QVPA603-103M	SEMI-V.RESISTOR	TAPE SPEED ADJ	

14. Packing

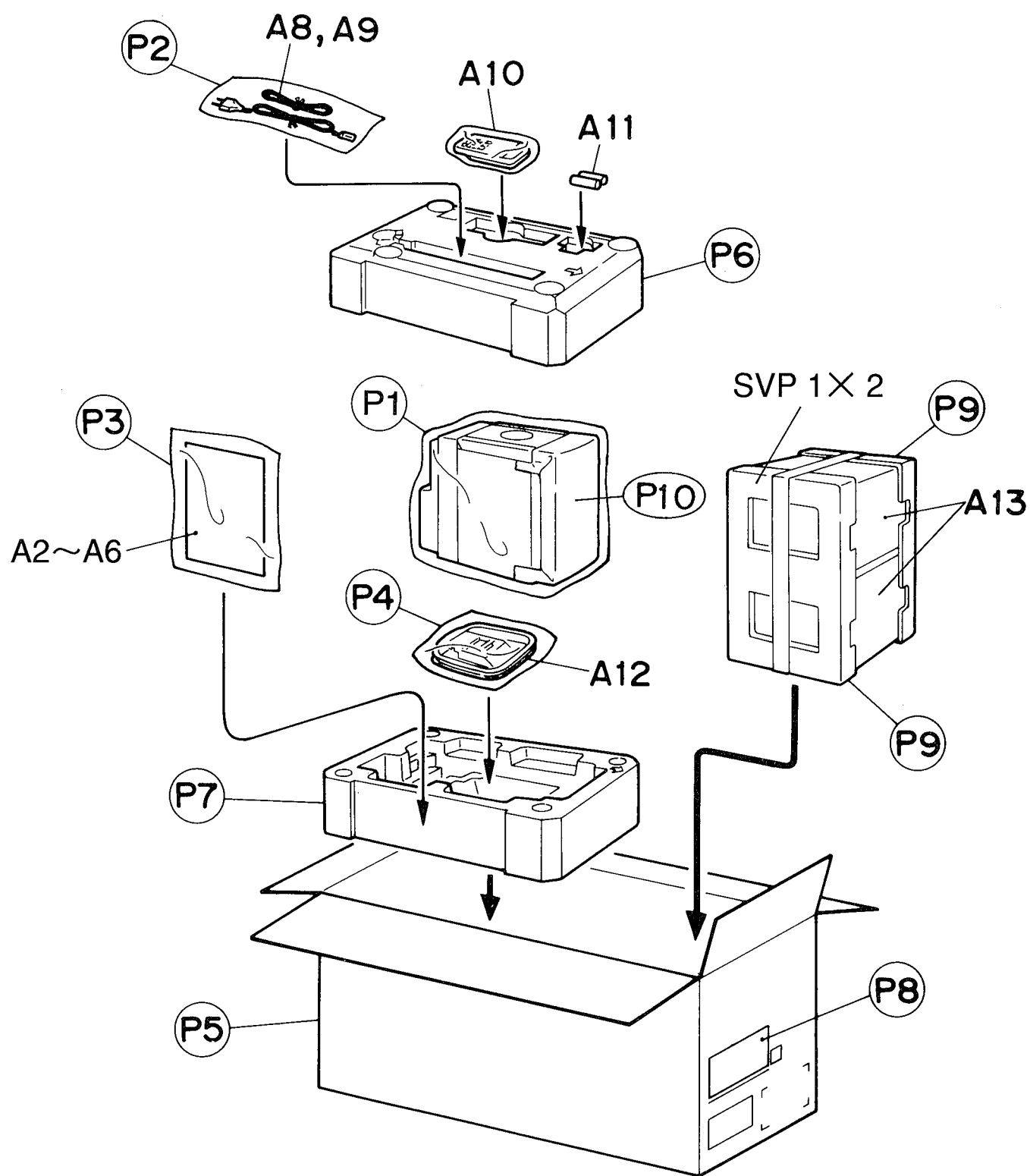


Fig. 14-1

■ Packing Parts List

BLOCK NO. M4MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPE3026-006	POLY BAG	FOR SET	1		
	P 2	QPGA012-02505	POLY BAG	FOR POWER CORD	1		
	P 3	VPE3026-004	POLY BAG	INSTRUCTIONS	1		
	P 4	VPE3005-042	POLY BAG	FOR AM ANT	1		
	P 5	VPC9316-C002	CARTON		1		
	P 6	VPH1709-001	CUSHION(UPPER)		1		
	P 7	VPH1709-002	CUSHION(BOTTOM)		1		
	P 8	-----	CARTON LABEL		1		
	P 9	VGSP024-004	SIDE CUSHION	SPEAKER	2		
	P 10	VPK3001-012	SHEET		1		

■ Accessories

BLOCK NO. M5MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 2	VNN9316-611C	INSTRUCTIONS		1		
	A 3	BT-20047F	WARRANTY CARD		1		
	A 4	BT-20137	SERVICE NETWORK		1		
	A 5	BT-20044G	SAFETY INST.		1		
	A 8	QMP1F00-183	POWER CORD		1		
	A 9	EW201-011	B. IN ANT	FM ANT	1		
	A 10	VGR0063-101	REMOCON UNIT		1		
	A 11	R6SPTT/2STA	BATTERY	FOR REMOCON	1		
	A 12	EQB4001-015	AM LOOP ANT	AM ANT	1		
	A 13	UXT100K-SPBOX	SPEAKER BOX		2		
	SVP 1	VGSP024-002	SPEAKER NET		2		



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