

JVC

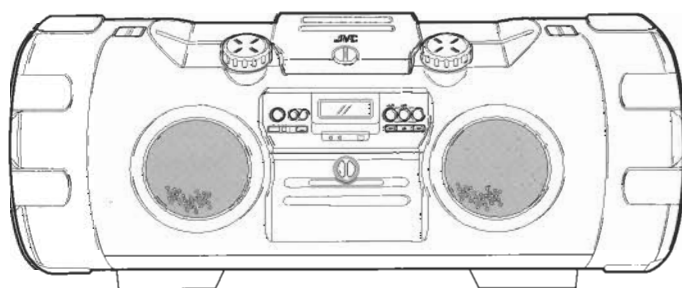
SERVICE MANUAL

POWERD WOOFER CD SYSTEM

RV-B90GY/RV-B90AG

CD Pick up
OPT-150
Lsi
MN35510
CD mechanism
EXL-M6
Cassette mechanism
SLC-S1

Area Suffix	
J the U.S.A
C Canada
B the U.K
E Continental Europe
EN North Europe
EE Eastan Europe
A Austraria
U Universal
UT Taiwan
UP Korea
US Sigapore
UX Sauzi arabia



COMPACT
disc
DIGITAL AUDIO

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Safety Precautions

1. This design of 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. Services 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 manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products 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 on the schematics and by (Δ) 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 parts 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 re-assembling.
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.

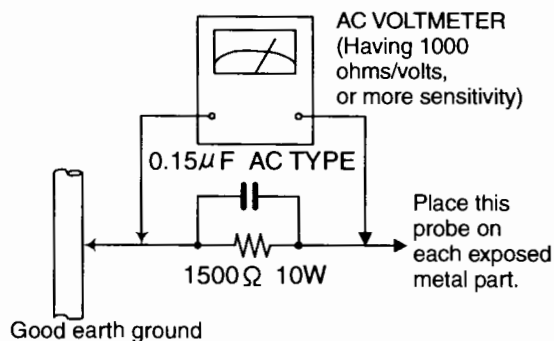
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA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

- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ 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. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).




Warning

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


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

Safety Precautions (U.K only)

1. This design of 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.
2. Any unauthorised design alterations or additions will void the manufacturer's guarantee ; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
3. Essential safety critical components are identified by () on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and 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 re-assembling.

Warning

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

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

Important for Laser Products

1. CLASS 1 LASER PRODUCT

2. DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

3. CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4. CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5. CAUTION : If safety switches malfunction, the laser is able to function.

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

⚠ CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alltiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

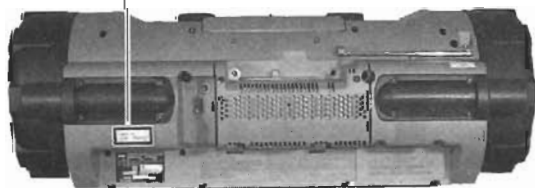
ADVARSEL : Usynlig laserstråling ved åbning, når sikkerhedsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

(Except for the U.S.A. and Canada and UP)

**CLASS 1
LASER PRODUCT**

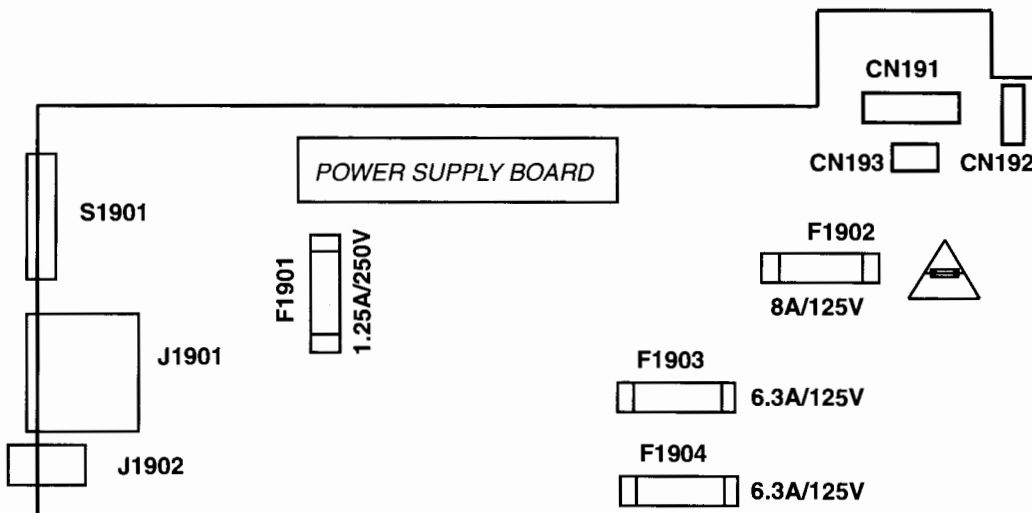


<p>DANGER : Invisible laser radiation when open and interlock or disabled. AVOID DIRECT EXPOSURE TO BEAM (c)</p>	<p>VARO: Avattaessa ja suojalukitus ohitettaessa olet alltiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (d)</p>
<p>VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (e)</p>	<p>ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)</p>


(sticking on the inside)




■ Importance Administering point on the Safety



Note : It's means "J" for U.S.A. market model and "C" for canada market model.

RV-B90C/J ONLY
Full Fuse Replacement Marking
Graphic symbol mark (This symbol means fast blow type fuse.)

should be read as follows ;
FUSE CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ;
<p>F1901 : 1.25-A, 250-V F1902 : 8- A, 125-V F1903 : 6.3-A, 125-V F1904 : 6.3-A, 125-V</p>

RV-B90C/J SEULEMENT
Marquage Pour Le Remplacement Complet De Fusible
Le symbole graphique (Ce symbole signifie fusible de type à fusion rapide.)

doit être interprété comme suit ;
PRECAUTIONS SUR LES FUSIBLES
POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;
<p>F1901 : 1.25-A, 250-V F1902 : 8- A, 125-V F1903 : 6.3-A, 125-V F1904 : 6.3-A, 125-V</p>

Instruction

FRANÇAIS

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

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 un rendimiento óptimo y una vida de servicio más larga.

ENGLISH

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



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

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

ADVERTENCIA:
PARA REDUCIR EL RIESGO DE INCENDIO O DE CHOQUES ELECTRICOS, NO EXPOGA ESTE APAREJO A LA LLUVIA O A LA HUMEDAD.

CAUTION:
The lightning bolt with a slash symbol within an equilateral triangle is used to indicate the presence of unshielded 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 used to indicate a specific hazard. For more details on safety, opening, and maintenance (servicing) instructions in the literature accompanying the appliance.

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



INSTRUCTIONS

INSTRUCCIONES
MANUEL D'INSTRUCTIONS

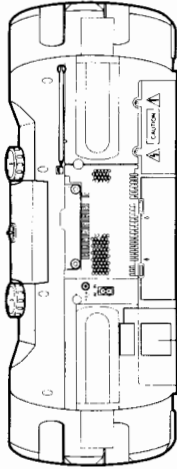
For Customer Use:
Enter below the Model No. and Serial No. of the equipment in the back of the cabinet. Retain this information for future reference.
Model No. _____
Serial No. _____

VNNS219-612N
(U) 2

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

- PRECAUTIONS**
- CLASS I LASER PRODUCT
 - DANGER:** Invisible laser radiation when open enclosure is removed. Avoid direct exposure to beam.
 - CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit, leave all servicing to qualified service personnel.
 - CAUTION:** The CD player uses invisible laser radiation. Do not look directly into the lens which prevents the emission of radiation when the CD door is open. It is dangerous to defeat the safety switches.
 - CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

IDENTIFICATION LABEL AND CERTIFICATION LABEL

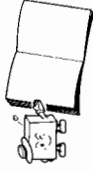


NAMERATING PLATE



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

SAFETY PRECAUTIONS



Prevention of Electric Shocks, Fire Hazards and Damage

- 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 wall outlet.
- Do not handle the power cord with wet hands.
- When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
- Consult your nearest dealer when damage, disconnection, or contact failure affects the cord.
- Do not bend the cord severely, or pull or twist it.
- Do not modify the power cord in any manner.
- To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
- Do not insert any metallic objects into the possibility of lightning.
- Unplug the power cord when there is a possibility of lightning.
- If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
- Do not block the unit's ventilation holes that allow heat to escape.
- Do not install the unit in a badly ventilated place.

PRECAUCIONES DE SEGURIDAD

Prevenición de choques eléctricos, peligro

- Aunque el botón de alimentación POWER esté colocado en espera, espera, fluye una pequeña corriente eléctrica. Para ahorrar energía y por seguridad cuando no utiliza esta unidad durante un largo periodo, desconecte el cordón eléctrico del tomacorriente de la pared.
- No manipule el cordón eléctrico con las manos mojadas.
- Cuando lo desenchufe del tomacorriente de la pared, sujételo siempre por el enchufe, nunca por el cordón.
- En caso de que el cordón sea alejado por accidente, no lo manipule con las manos mojadas.
- No toque en ningún momento el cordón, no lo aleje del mismo ni lo revierta.
- No modifique el cordón eléctrico de ninguna manera.
- Para evitar accidentes, no extraiga los tornillos de la unidad y no toque nada dentro de ella.
- No inserte ningún objeto metálico dentro de los alambres del altavoz de graves, etc.
- Desenchufe el cordón eléctrico cuando haya posibilidad de caída de rayos.
- Si se introduce agua dentro de la unidad, desenchufe el cordón eléctrico del tomacorriente y consulte a su dealer.
- No bloquee los orificios de ventilación de la unidad que permiten el escape de calor.
- No instale la unidad en un lugar mal ventilado.

CONSIGNES DE SECURITE

Prevention contre l'électrocution, les incendies et les dommages

- Même si le bouton POWER est réglé en attente, il circule un très faible courant. 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.
- Né pas saisir le cordon d'alimentation avec les mains mouillées.
- En débranchant de la prise secteur, toujours tenir et tirer sur la fiche, pas sur le cordon.
- Consulter le revendeur le plus proche si une panne, un empu ou un mauvais contact se produit avec le cordon.
- Né pas manipuler le cordon avec les mains mouillées.
- Né pas modifier le cordon d'alimentation.
- Pour éviter des accidents, né pas retirer les vis pour démonter l'appareil et né rien toucher dans l'appareil.
- Né pas introduire d'objets métalliques dans les orifices de woofer de l'appareil.
- Ne pas insérer d'objets métalliques dans le boîtier de l'appareil.
- Ne pas débrancher le cordon secteur en cas deorage.
- Si de l'eau pénètre dans l'appareil, débranchez le cordon secteur de la prise et consultez un revendeur.
- Né pas boucher les trous de ventilation de l'appareil qui permettent à la chaleur de mal s'échapper.
- Né pas installer l'appareil dans un endroit mal aéré.

FEATURES

- Active Clear Sound (ACS) circuit for enhanced sound reproduction
- Super woofer volume control
- Sound mode control
- One-touch operation (COMPULPLAY)
- 35 key remote control unit operates all CD, cassette deck and tuner functions
- Skip Play/Search Play/Repeat Play/Random Play
- Pre-programmed play of up to 20 tracks
- Full logic cassette mechanism
- Auto reverse
- Auto tape select mechanism
- Menu (type IV) and C/Oz (type II) tape can be played back for superior tone quality
- 2-Bit (type II) tape recording capability
- 2-Bit (type II) tape recording capability 45-station (30 FM and 15 AM) preset capability
- Seek/manual tuning
- Auto preset tuning
- Timer/on/off with preset volume function
- Sleep timer can be set for up to 120 minutes
- Shut-off timer
- Locking mechanism for CD and cassette door
- DC IN 12V jack for car battery

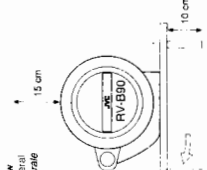
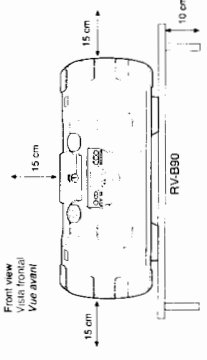
CARACTERISTICAS

- Circuit ACS (son clair, actif) pour une reproduction sonore renforcée
- Contrôle du volume du super woofer graves
- Commande de mode de son
- Fonctionnement une touche (COMPULPLAY)
- Télécommande à 35 touches qui commande toutes les fonctions CD, platine à cassette et synthésiseur
- Saut/retour à l'écoute/répétition/lecture aléatoire
- Lecture programmée jusqu'à 20 pistes
- Mécanisme de cassette entièrement logique
- Inversion automatique
- Sélection automatique de bande
- Des bandes métal (type IV) ou C/Oz (type II) peuvent être lus pour une qualité supérieure
- Possibilité d'enregistrement de bande C/Oz (type II)
- Synthésiseur à synthétiseur numérique 2 gammes (30 FM et 15 AM)
- Synchronisation par recherche manuelle
- Stationnement automatique des préajustes
- Fonction maintien/horloge
- Marche/arrêt par minuterie avec fonction de préajuste de volume
- La minuterie de sommeil peut être réglée pour jusqu'à 120 minutes
- Programmation du volume préajusté
- Équipement pour le verrouillage pour le volet transport
- Prise d'entrée CC 12 V pour batterie automobile
- Jack DC IN 12V pour la batterie de l'automobile

CAUTION: Ventilation

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

- Front: No obstructions and open spacing.
- Side/top/back: Should be placed in the areas shown by the dimensions below.
- 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.



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

Quando 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 en attente.

Precaución: Ventilación correcta

Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla las siguientes requisitos:

1. Frente: Sin obstrucciones, espacio abierto.
2. Lados/Parte superior/Parte posterior: No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
3. Parte inferior: Situe el equipo sobre una superficie horizontal. Velice a de que sa ventilación correcta pueda se laire en le plácatn sur une table d'au moins dix centimètres de hauteur.

Attention: Bien dégager de tout objet. Ne laissez rien aux endroits indiqués dans les zones ci-dessus. 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.

Caution: Ventilation

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

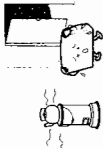
1. Front: No obstructions and open spacing.
2. Sides/top/back: Should be placed in the areas shown by the dimensions below.
3. Bottom: Place on a level surface. Maintain an adequate air path for ventilation by placing on a table with a height of 10 cm or more.

HANDLING PRECAUTIONS



Do not use this unit in direct sunlight where it would be exposed to high temperatures above 40°C (104°F).

- When abnormal operation occurs, unplug the AC power cord from the AC outlet and remove all the batteries. Then reconnect the batteries after a few minutes, and reconnect the AC power cord and switch the power ON.



No toque esta unidad bajo la luz directa del sol donde podría quedar expuesta a temperaturas superiores a 40°C (104°F).

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

1. Evite instalar en los siguientes lugares

- En un lugar donde pueda ser sujeta a vibraciones.
 - En un cuarto de baño.
 - Donde haya humedad excesiva, tal como en un cuarto de baño.
 - Donde pueda ser magnetizada por un imán o altavoz.
2. Preste atención al polvo
- Evite que el polvo se acumule sobre la lente que el CD para que el CD gire libremente.
3. Condensación
- En los siguientes casos, puede producirse condensación dentro de la unidad y en consecuencia 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.
 - Cuando se traslada rápidamente la unidad de una sala húmeda a una seca (por ejemplo, en una sala de duchas).

4. Ajuste del volumen

Los productos de CD producen muy poco ruido, comparados con las fuentes analógicas. Si ajusta el nivel de volumen a un nivel bajo, puede ser posible que no pueda escuchar los detalles que se escuchan a un nivel más alto. Por ello, reduzca el volumen antes de la operación y ajústelo como desee durante la reproducción.

5. Mecanismo de seguridad

Esta unidad posee un mecanismo intercedido de seguridad que comienza a funcionar cuando se abre el portacasette de CD al rayo láser es inmediatamente desconectado.

6. No coloque casasettes de cinta, etc., próximos a los altavoces

Como ya sabemos en los altavoces, no coloque cintas o tarjetas magnéticas sobre los altavoces, ya que los datos grabados pueden ser borrados.

7. Mantenga esta unidad lejos de su TV

Cuando se usa esta unidad próxima a un TV, la imagen de este puede ser distorsionada. Si ello ocurre mueva esta unidad lejos del TV. Si esto no corrige el problema, mueva esta unidad cuando el TV está encendido.

8. Limpieza del gabinete

Si el gabinete se ensucia límpielo con un paño suave y seco. Nunca utilice bencina o solventes, ya que estos pueden dañar la terminación de la superficie.

PRECAUTIONS DE MANIPULACION



No utilice esta unidad bajo la luz directa del sol donde podría quedar expuesta a temperaturas superiores a 40°C (104°F).

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

1. Evite l'installation dans les endroits suivants

- En un lugar où elle pourrait être soumise à des vibrations.
 - Dans des endroits trop humides, comme une salle de bains.
 - Où pourrait être magnétisée par un aimant ou un haut-parleur.
2. Faire attention à la poussière
- Évitez que la poussière ne s'accumule sur la lentille. Ne pas toucher à la lentille.
3. Condensation
- Dans les cas suivants, la condensation peut se produire dans l'appareil, dans ce cas l'appareil ne fonctionnera pas correctement.
 - Dans une pièce où le chauffage vient juste d'être mis en marche.
 - Dans un endroit sujet à la fumée ou à l'humidité.
 - Quand l'appareil est déplacé rapidement d'une pièce froide à une pièce chaude.
- Dans ces cas, mettez la touche POWER en attente et attendez 1 ou 2 heures avant de l'utiliser.

4. Réglage du volume

Un disque audio numérique produit un souffle très faible comparé à des sources analogiques. Si vous ajustez le niveau de volume à un niveau bas, il est possible que vous ne puissiez pas entendre les détails que vous entendez à un niveau plus élevé. Par conséquent, baissez le volume avant la reproduction et ajustez-le comme vous le souhaitez pendant la reproduction.

5. Dispositif de sécurité

Cet appareil dispose d'un dispositif de verrouillage de sécurité qui établit ou coupe le rayon laser, pour que quand le volet CD est ouvert, le rayon laser s'arrête automatiquement.

6. 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 enregistreuse ou de carte magnétique à proximité, un important matériel enregistreur peut être effacé.

7. Garder cet appareil éloigné de votre téléviseur

Quand cet appareil est utilisé près d'un téléviseur, l'image peut être déformée. Si cela arrive, éloignez cet appareil du téléviseur. Si ce n'est pas suffisant, évitez d'utiliser cet appareil quand le téléviseur est en marche.

8. Nettoyage du coffret

Si le coffret devient sale, l'essuyer avec un chiffon doux et sec. Ne pas utiliser de solvants, car ils pourraient abîmer le fini de la surface.

PRECAUTIONS DE MANIPULACION

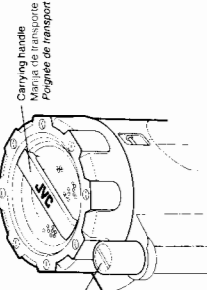
9. Cuando escuche con auriculares
- No escuche con el volumen muy alto porque podrían dañarse sus oídos.
 - Por seguridad, no conduzca mientras escucha esta unidad.

10. Preste atención a lo siguiente
- No coloque la unidad en un lugar donde haya mucha humedad.
 - No la golpee.
 - Para seguridad, retire la antena de tal manera que no se enganche o rompa durante el transporte.

Manija de transporte

Esta unidad está equipada con una manija de transporte en cada extremo.

- Asegúrese de sujetar ambas manijas cuando transporte la unidad.
- Si el extremo superior de la manija de transporte es demasiado largo, puede doblarse y dañar la unidad.
- No levante la unidad por los ductos del altavoz de grave ni inserte ningún objeto metálico dentro de los mismos.



9. Lors de l'écoute avec un casque d'écoute
- Ne pas écouter à volume trop élevé car cela risque de provoquer des troubles de l'oreille.
 - Pour des raisons de sécurité, ne pas conduire en écoutant cet appareil.
10. Faire attention aux choses suivantes
- Ne pas placer l'appareil dans un endroit humide.
 - Ne pas faire subir des chocs à l'appareil.
 - Pour des raisons de sécurité lors du transport, retirer l'antenne pour qu'elle ne soit pas recourbée ou cassée.

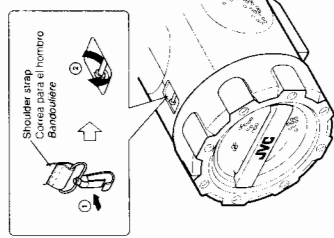
Pignée de transport

Cet appareil dispose d'une poignée de transport à chaque extrémité.

- Lorsque vous transportez l'appareil, assurez-vous de saisir les deux poignées.
- Si vous portez l'appareil seulement par une poignée, à cause de la longueur de l'appareil (69 cm), l'autre extrémité peut cogner le sol et être par conséquent endommagée.
- Ne pas lever l'appareil par les orifices de woofer, et ne pas insérer d'objets métalliques dans ces orifices.

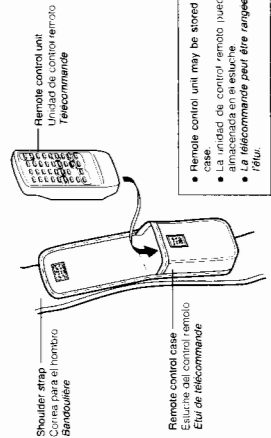
SHOULDER STRAP ATTACHMENT/ DETACHMENT

- ATTACHMENT: As shown in the illustration below, press in the metal fitting at 1, and hook over 2.
- DETACHMENT: Press in the metal fitting at 1, and unhook.



COLOCACION/EXTRACCION DE LA CORREA PARA EL HOMBRO

- COLOCACION: Presione el accesorio de metal en 1, y enganche en 2, como se muestra en la ilustración de abajo.
- EXTRACCION: Presione el accesorio de metal en 1, y desenganche.



- Remoive control unit may be stored in the case.
- Remoive control unit may be stored in the case.
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- Remoive control unit may be stored in the case.

Battery replacement

When the batteries are nearly exhausted, the following symptoms may appear. In this case, replace the batteries with the fresh ones. (Do not use fresh ones and old ones together.)

For the main unit

Misreading occurs during CD playback or sound reproduction. The display shows "DC OFF" when these symptoms occur. "DC OFF" appears in the display window and the power is turned off after 1 minute.

For the memory back-up

When the AC power cord is unplugged, the stored memory (timer/clock setting/preset setting) is lost. It is recommended that the AC power cord be used when recording important material or listening to a CD.

For better battery usage

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

For power supply

The use of household AC is recommended. When continuous operation of the unit is required over a longer period of time.

CAUTIONS:

- WHEN NOT USING THE UNIT FOR A LONG TIME (MORE THAN TWO WEEKS) OR WHEN ALWAYS USING HOUSEHOLD AC, ALWAYS UNPLUG THE POWER CORD TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT.
- WHEN THE JVC POWER CORD PROVIDED WITH THIS UNIT IS CONNECTED, THE POWER IS AUTOMATICALLY SWITCHED FROM THE BATTERIES TO THE HOUSEHOLD AC. ALWAYS UNPLUG THE BATTERIES BEFORE THEY ARE LOADED. HOWEVER, REMOVE THE BATTERIES WHEN USING THE POWER CORD.

CAUTIONS WHEN USING BATTERIES

When batteries are used incorrectly, it may result in the leakage of chemicals from the batteries or they may explode. The following care should be taken:

- Check that the positive (+) and negative (-) terminals of the batteries are positioned correctly and load them as together, or mix different types of batteries.
- Do not try to recharge non-rechargeable batteries.
- Remove the batteries when the unit is to be used for an extended period of time.
- If chemicals from the batteries come in contact with your skin, wash them off immediately with water. If chemicals leak onto the unit, clean the unit completely.

Reemplazo de las pilas

Cuando las pilas están casi agotadas, aparecerán los siguientes síntomas. En este caso, reemplácelas con pilas nuevas. (No use pilas nuevas y viejas conjuntamente.)

Para la unidad principal

Misreading occurs during CD playback or sound reproduction. The display shows "DC OFF" when these symptoms occur. "DC OFF" appears in the display window and the power is turned off after 1 minute.

Para apoyo de memoria

When the AC power cord is unplugged, the stored memory (timer/clock setting/preset setting) is lost. It is recommended that the AC power cord be used when recording important material or listening to a CD.

Para una mejor utilización de las pilas

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

Para el suministro de energía

The use of household AC is recommended. When continuous operation of the unit is required over a longer period of time.

PRECAUTIONS:

- SI NO VA A UTILIZAR LA UNIDAD DURANTE LARGO TIEMPO (MÁS DE DOS SEMANAS) O CUANDO SIEMPRE UTILIZA CORRIENTE DE LA RED, SIEMPRE DESCONECTE EL CABLE DE LA UNIDAD PARA EVITAR FALLAS DE FUNCIONAMIENTO O DAÑOS A LA UNIDAD.
- CUANDO SE CONECTA EL CORDÓN DE ALIMENTACIÓN DE JVC DE ESTA UNIDAD, LA ALIMENTACIÓN CONMUTA AUTOMÁTICAMENTE DE LAS PILAS A LA CORRIENTE DE LA RED. SIEMPRE DESCONECTE LAS PILAS ANTES DE COLOCARLAS. SIN EMBARGO, RECOMENDAMOS QUE EXTRAIGA LAS PILAS CUANDO UTILIZA EL CORDÓN DE ALIMENTACIÓN.

PRECAUCIONES PARA EL USO DE LAS PILAS

Si las pilas son incorrectamente usadas, ello puede resultar en fugas de productos químicos de las mismas o pueden explotar. Es necesario tomar las siguientes precauciones:

- Verifique que los terminales (+) y negativos (-) de las pilas estén correctamente colocados de acuerdo al diagrama.
- No mezcle pilas nuevas y viejas ni pilas diferentes tipos de pilas.
- No intente recargar las pilas que no sean recargables.
- Extraiga las pilas cuando no vaya a utilizar la unidad durante un largo periodo.

Si los productos químicos provenientes de las pilas entran en contacto con su piel, límpiellos inmediatamente con agua. Si los productos químicos caen sobre esta unidad, límpiellos completamente.

Remplacement des piles

Lorsque les piles sont pratiquement usées, les symptômes suivants peuvent apparaître. Dans ce cas, remplacez les piles par des piles neuves. (Ne pas utiliser ensemble des piles neuves et des piles usagées.)

Remplacement

Misreading occurs during CD playback or sound reproduction. The display shows "DC OFF" when these symptoms occur. "DC OFF" appears in the display window and the power is turned off after 1 minute.

Pour le soutien mémoire

When the AC power cord is unplugged, the stored memory (timer/clock setting/preset setting) is lost. It is recommended that the AC power cord be used when recording important material or listening to a CD.

Pour une meilleure utilisation des piles

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

Pour l'alimentation

The use of household AC is recommended. When continuous operation of the unit is required over a longer period of time.

PRECAUTIONS:

- SI L'APPAREIL N'EST PAS UTILISÉ PENDANT UNE LONGUE PÉRIODE (PLUS DE DEUX SEMAINES) OU QU'ON UTILISE TOUJOURS LE COURANT DE LA RÉSEAU, DÉCONNECTEZ TOUJOURS LE CÂBLE DE L'UNITE POUR ÉVITER UN MAUVAIS FONCTIONNEMENT OU DES DOMMAGES À L'APPAREIL.
- LORSQUE LE CORDON D'ALIMENTATION JVC FOURNI AVEC CET APPAREIL EST BRANCHÉ, L'ALIMENTATION COMMUTE AUTOMATIQUÉMENT DES PILLES AUX PILES SUR LE SECTEUR DE LA MÊME PAYS. RECOMMANDONS QUE VOUS EXTRAIEZ LES PILES EN CONSÉQUENT, RETIENIR LES PILES EN UTILISANT LE CORDON D'ALIMENTATION.

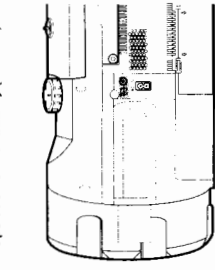
PRECAUTIONS EN UTILISANT DES PILLES

Si les piles ne sont pas utilisées correctement, il peut y avoir une fuite de produits chimiques des piles ou elles peuvent exploser. Les précautions suivantes doivent être prises:

- Vérifier que les bornes positive (+) et négative (-) des piles sont positionnées correctement et les introduire comme montré sur le schéma.
- Ne pas mélanger ensemble des piles neuves et des piles usées. Ni mélanger différents types de piles.
- Ne pas essayer de recharger des piles non rechargeables.
- Retirer les piles lorsque l'appareil n'est pas utilisé pendant une longue période.

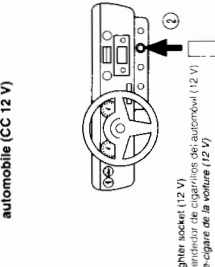
Si des produits chimiques des piles viennent en contact avec votre peau, les laver immédiatement avec de l'eau. Si des produits chimiques coulent dans l'appareil, nettoyer complètement l'appareil.

D. Operation on car battery (DC 12 V)



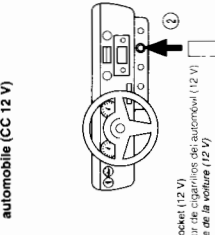
First connect the car adapter to the DC IN 12 V jack, not the cigarette lighter socket. The cigarette lighter socket may be used as a power source for the unit, but it is not recommended because the fuse to blow out. In addition, be careful not to make a short-circuit between the plugs.

D. Funcionamiento con batería de automóvil (12 V de CC)



Primero conecte el adaptador a los DC IN 12V no al enchufe del encendedor de cigarrillos, porque si pone en cortocircuito una clavija del automóvil, puede quemarse un fusible. Además, tenga cuidado de no producir un cortocircuito entre las clavijas.

D. Fonctionnement sur une batterie automobile (CC 12 V)



First connect the car adapter to the DC IN 12 V jack, not the cigarette lighter socket. The cigarette lighter socket may be used as a power source for the unit, but it is not recommended because the fuse to blow out. In addition, be careful not to make a short-circuit between the plugs.

CAUTIONS WHEN USING THIS UNIT IN A CAR

- When using a car battery, be sure to use the specified car adapter (JVC model CA-R120) to prevent mishaps or damage resulting from different polarity design.
- For safety, stop the car before performing operations. Disconnect the car adapter from the car before performing operations. Otherwise the car battery will be exhausted.
- During transport, stabilize the unit in a box, etc.
- This unit is not waterproof or dustproof. To prevent malfunctions, do not leave the unit in an automobile for a long time.
- Unplug the power cord from the AC IN jack when using the unit with a car adapter.

PRECAUCIONES PARA USAR ESTA UNIDAD EN UN AUTOMÓVIL

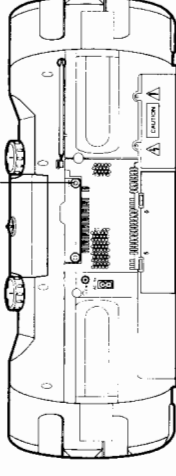
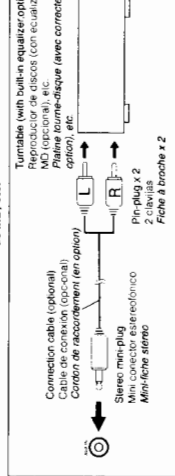
- Cuando utilice una batería de automóvil, emplee el adaptador especificado (JVC modelo CA-R120) para evitar fallas o daños por diferentes tipos de polaridad.
- Por seguridad, pare el automóvil antes de efectuar estas operaciones. Desconecte el adaptador del automóvil cuando empiece a transportar el aparato. De lo contrario se agotará la batería del mismo.
- Durante el transporte, estabilice la unidad en una caja, etc.
- Esta unidad no es impermeable ni a prueba de polvo. Para evitar malfuncionamiento, no deje la unidad en un automóvil por largo tiempo.
- Desenchufe el cable de alimentación del jack AC IN cuando emplee la unidad con un adaptador para automóvil.

PRÉCAUTIONS POUR UTILISER CET APPAREIL DANS UNE VOITURE

- En utilisant une batterie automobile, bien utiliser l'adaptateur automobile spécifié (modèle JVC CA-R120) pour éviter tout problème ou endommagement résultant d'une polarité différente.
- Pour des raisons de sécurité, arrêter la voiture avant d'effectuer des opérations. Débranchez l'adaptateur automobile quand vous commencez à transporter l'appareil.
- Bien faire tourner le moteur quand vous utilisez l'adaptateur automobile, sinon la batterie de la voiture sera déchargée.
- Pendant le transport, stabiliser l'appareil dans une boîte, etc.
- Cet appareil n'est pas imperméable ni protégé contre la poussière. Pour éviter des mauvais fonctionnements, ne pas laisser l'appareil dans une voiture pendant de longues périodes.
- Débrancher le cordon d'alimentation de la prise AC IN en utilisant l'appareil avec un adaptateur automobile.

CONNECTIONS

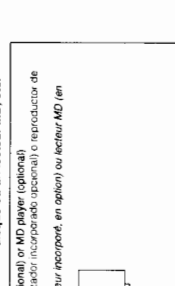
- Do not switch the power on until all connections are completed.
- Connection of external audio units
- Connection with a turntable or MD player, etc.



- Note:**
- Do not install the unit near a TV, otherwise the color of the image on the screen will change. If this occurs, move the TV away from the unit, then turn off the TV and turn it on again after 15 to 30 minutes. The TV's automatic degaussing circuit will correct the picture.

RACCORDEMENTS

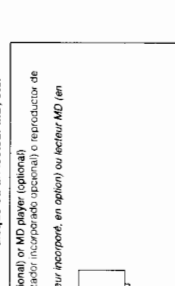
- No connecte la alimentación hasta haber completado todas las conexiones.
- Raccordecment d'appareils audio externes
- Raccordecment avec une platine tourne-disque ou un lecteur MD, etc.



- Remarque:**
- Ne pas installer l'appareil près d'un téléviseur, sinon la couleur de l'image TV changera. Si cela se produit, déplacez le téléviseur de l'appareil, puis coupez le téléviseur et le remettez en marche au bout de 15 à 30 minutes. Le circuit de dégaussification automatique du téléviseur corrigera l'image.

CONEXIONES

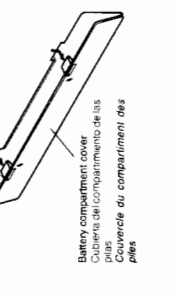
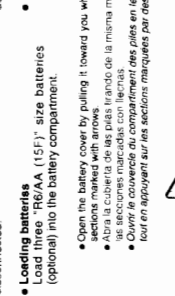
- No conecte la alimentación hasta haber completado todas las conexiones.
- Conexión de unidades externas de audio
- Conexión con un giradisco o reproductor de MD, etc.



- Note:**
- Do not install the unit near a TV, otherwise the color of the image on the screen will change. If this occurs, move the TV away from the unit, then turn off the TV and turn it on again after 15 to 30 minutes. The TV's automatic degaussing circuit will correct the picture.

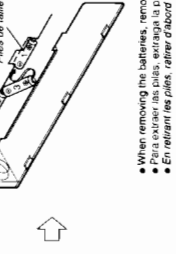
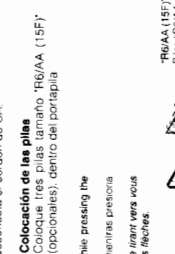
CONEXIONES

- It is recommended that batteries are loaded to the present station memory and timer, etc. from the battery compartment.
- Failure, or when the AC power cord is disconnected
- Loading batteries
- Load three "RB/AA (15F)" size batteries (optional) into the battery compartment.
- Open the battery cover by pulling it toward you while pressing the sections marked with arrows.
- Abra la cubierta de las pilas tirando de la misma mientras presiona las secciones marcadas con flechas.
- Coloque tres pilas tamaño "RB/AA (15F)" en el compartimiento de las pilas en el soporte para las secciones marcadas por una flecha.



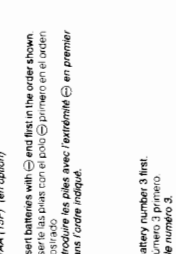
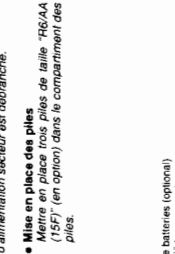
- Notes:**
- The three "RB/AA (15F)" size batteries supply the power to the memory back-up system which prevents the contents of memory being lost when the power cord is disconnected. Battery power is consumed when the power cord is connected to the household AC outlet.
 - When the memory backup function is activated, the time is not displayed to reduce the power consumption. The display will be restored when the power cord is disconnected or the "R20D (13F)" size batteries are not loaded.
 - The batteries should be replaced with new ones approximately every 12 months. (Connect the power cord when replacing batteries in order to backup the memory.)

- Se recomienda instalar las pilas para evitar que se pierda la memoria de estaciones programadas, temporizadores, etc. cuando haya un corte de energía o cuando se desconecta el cordón de CA.
- Colocación de las pilas
- Coloque tres pilas tamaño "RB/AA (15F)" (opcionales), dentro del compartimiento de las pilas.
- Abra la cubierta de las pilas tirando de la misma mientras presiona las secciones marcadas con flechas.
- Coloque tres pilas tamaño "RB/AA (15F)" en el soporte para las secciones marcadas por una flecha.



- Notas:**
- Las tres pilas tamaño "RB/AA (15F)" suministran alimentación para el sistema de apoyo de memoria que evita que se pierda el contenido de la memoria en caso de un corte de alimentación.
 - El consumo de energía se produce cuando el cordón de alimentación de CA se conecta al tomacorriente de CA.
 - Cuando se activa la función de apoyo de memoria, la hora no es indicada para reducir el consumo de energía.
 - El tiempo de la pantalla se restaura cuando no se han colocado las pilas tamaño "R20D (13F)", es necesario reemplazar las pilas por nuevas cada 12 meses aproximadamente.
 - (Al reemplazar las pilas, conecte el cordón de alimentación de adaptador de CA para aumentar la memoria.)

- It is recommended to remove the memory for saving the placement of the memory stations, program settings, etc. when the power cord is disconnected.
- Mise en place des piles
- Mettez en place trois piles de taille "RB/AA (15F)" (en option) dans le compartiment des piles.



- Remarques:**
- Les trois piles tamaño "RB/AA (15F)" fournissent l'alimentation au système de soutien mémoire qui évite de perdre le contenu de la mémoire quand il y a une panne de courant, ou si le cordon d'alimentation de CA est débranché.
 - L'énergie des piles n'est consommée que quand le cordon d'alimentation de l'adaptateur secteur est branché sur une prise secteur active, l'heure n'est pas affichée pour réduire la consommation d'énergie.
 - Le temps de l'écran se restaure quand le cordon d'alimentation de l'adaptateur secteur n'est pas branché sur une prise secteur.
 - Remplacez les piles par de nouvelles piles toutes les 12 mois.
 - (Brancher le cordon d'alimentation de l'adaptateur secteur lors du changement des piles pour le soutien de la mémoire.)

POWER SUPPLY

- Operation on house hold AC
- Connect the AC power cord after all other connections have been made.



ALIMENTACION

- Operación con tomacorriente de CA
- Conecte el cordón de CA después de haber terminado todas las conexiones.



ALIMENTATION

- Fonctionnement sur le secteur
- Brancher le cordon d'alimentation CA une fois effectués les autres raccordements ont été effectués.



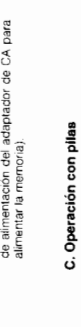
ALIMENTATION

- Operation on batteries
- Loading batteries
- Open the battery cover by pulling it toward you while pressing the sections marked by arrows.
- Insert the "R20D (13F)" size batteries as shown in the diagram.
- Be careful to insert the batteries with the (+) and (-) terminals positioned correctly.
- Replace the cover.



OPERACION CON PILAS

- Colocación de las pilas
- Abra la tapa del compartimento de las pilas tirandola hacia usted mientras presiona las secciones marcadas con flechas.
- Introduzca 10 pilas "R20D (13F)" como se muestra en el diagrama.
- Tomar precauciones para insertar las pilas con los terminales (+) y (-) correctamente posicionados.
- Coloque la tapa.



OPERATION ON BATTERIES

- Mise en place des piles
- Ouvrir le compartiment des piles en tirant le couvercle vers vous tout en appuyant sur les endroits marqués de fleches.
- Introduire 10 piles de taille "R20D (13F)" comme se montre sur le diagramme.
- Faire attention de positionner les piles avec les bornes (+) et (-) correctement.
- Remettre en place le couvercle.



OPERACION CON PILAS

- Colocación de las pilas
- Abra la tapa del compartimento de las pilas tirandola hacia usted mientras presiona las secciones marcadas con flechas.
- Introduzca 10 pilas "R20D (13F)" como se muestra en el diagrama.
- Tomar precauciones para insertar las pilas con los terminales (+) y (-) correctamente posicionados.
- Coloque la tapa.



OPERACION CON PILAS

- Colocación de las pilas
- Abra la tapa del compartimento de las pilas tirandola hacia usted mientras presiona las secciones marcadas con flechas.
- Introduzca 10 pilas "R20D (13F)" como se muestra en el diagrama.
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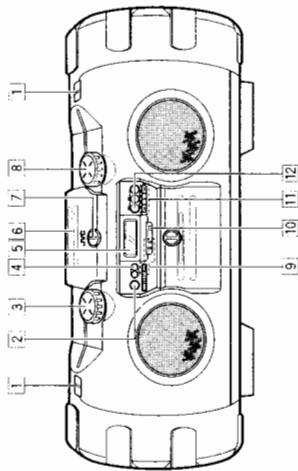
OPERACION CON PILAS

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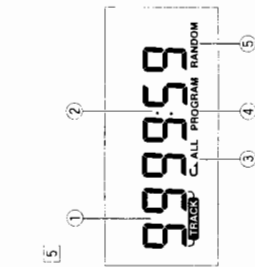


NAMES OF PARTS AND THEIR FUNCTIONS **NOMBRES DE LAS PARTES Y SUS FUNCIONES** **NOMS DES PIECES ET LEURS FONCTIONS**

CD player/General section **Sección del reproductor de CD/Generalidades** **Section lecteur CD/générale**

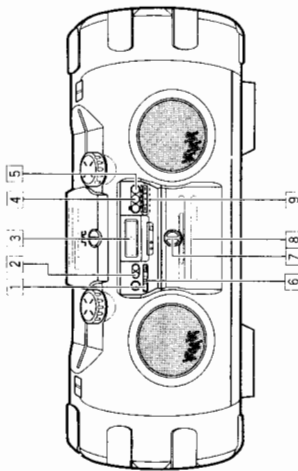


- 1 Shoulder strap hook
- 2 POWER button
- 3 SUPER WOOFER VOLUME control knob
- 4 SOUND button
- 5 Display window
 - 1) Function/Track number display
 - 2) Power indicator (C, ALL)
 - 3) Rewind indicator (C, ALL)
 - 4) Program mode indicator (PROGRAM)
 - 5) Random play indicator (RANDOM)
 - 6) See page 31 for clock adjustment display
 - 7) LOCK/RELEASE knob
 - 8) LOCK/RELEASE button
 - 9) VOLUME control knob
- 10) REMOTE SENSOR section
- 11) MULTI CONTROL button and ACS indicators
 - ▶▶▶▶▶ Press to locate the beginning of a track during skip play.
 - ▶▶▶▶▶ Press to fast-forward/rewind during search play.
 - Press to stop.
 - ▶▶▶▶▶ Press to cancel program play.
 - ▶▶▶▶▶ Press to select the CD mode.
 - ▶▶▶▶▶ Press to play/pause.
 - ▶▶▶▶▶ Press to turn the power on.
- 12) CD ▶▶▶▶▶ MULTI CONTROL button
 - ▶▶▶▶▶ Press to select the CD mode.
 - ▶▶▶▶▶ Press to play/pause.
 - ▶▶▶▶▶ Press to turn the power on.

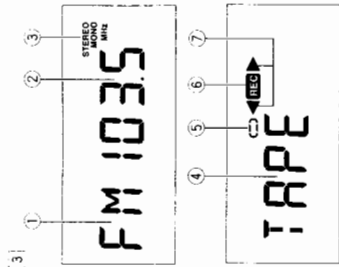


- 1 Crochet pour la bandoulière
- 2 Touche d'alimentation (POWER)
- 3 Bouton de commande SUPER WOOFER VOLUME
- 4 Touche de son (SOUND)
- 5 Fenêtre d'affichage
 - 1) Indication de fonction/numéro de piste
 - 2) Indication de l'heure de reproduction
 - 3) Indicateur de lecture rapide (C, ALL)
 - 4) Indicateur de lecture aléatoire (PROGRAM)
 - 5) Indicateur de lecture aléatoire (RANDOM)
 - 6) Voir page 31 pour l'affichage du réglage de l'heure.
 - 7) Volet CD
 - 8) Bouton LOCK/RELEASE
 - 9) Bouton de commande VOLUME
 - 10) Section REMOTE SENSOR
 - 11) Les signaux de télécommande sont reçus ici.
- 12) Touches MULTI CONTROL
 - ▶▶▶▶▶ Lorsque le mode est réglé sur CD)
 - ▶▶▶▶▶ Appuyez pour sélectionner le début d'une piste pendant le saut de lecture.
 - ▶▶▶▶▶ Appuyez pour l'avance rapide/le rebobinage pendant la recherche.
 - Appuyez pour arrêter la lecture.
 - ▶▶▶▶▶ Appuyez pour annuler la lecture programmée.

Tuner/Deck section



- 1 PRESET TUNING/BEAT CUT button
- 2 AUX button
- 3 Display window
 - 1) Band display
 - 2) Radio frequency display
 - 3) Stereo display during FM broadcast (STEREO MONO)
 - 4) Tape display
 - 5) Reverse mode indicator (C, C)
 - 6) Recording indicator (REC)
 - 7) Tape direction indicators (▶▶▶▶▶)
 - 8) TAPE button
- 4 Press to select the tape mode.
- 5 Press to turn the power on.
- 6 TUNER BAND/FM mode button
- 7 Press to select the tuner mode.
- 8 Press to turn the power on.
- 9 ONE TOUCH REC button
- 10 LOCK: To open the cassette holder.
- 11 Cassette holder
- 12 MULTI CONTROL button
 - ▶▶▶▶▶ (When the mode is set to TAPE)
 - ▶▶▶▶▶ Press to rewind the tape.
 - ▶▶▶▶▶ Press to stop the tape.
 - ▶▶▶▶▶ Press to fast forward the tape.
 - ▶▶▶▶▶ Press to set to TUNER)
 - ▶▶▶▶▶ Auto Tuning/Manual Tuning

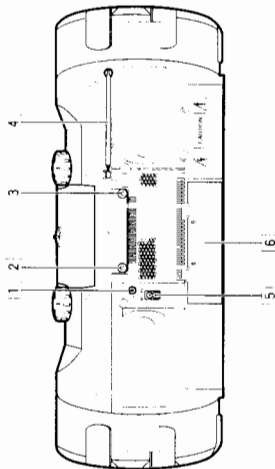


- 1 Touche PRESET TUNING/BEAT CUT
- 2 Touche AUX
- 3 Fenêtre d'affichage
 - 1) Affichage de la bande
 - 2) Affichage de la fréquence radio
 - 3) Indicateur de stéréo pendant une émission FM (STEREO MONO)
 - 4) Affichage de la bande
 - 5) Indicateur de mode d'inversion (C, C)
 - 6) Indicateur d'enregistrement (REC)
 - 7) Indicateurs de sens de déroulement de la cassette
 - 8) Touche TAPE
- 4 Appuyez pour sélectionner le mode cassette.
- 5 Appuyez pour sélectionner le sens de déroulement de la bande.
- 6 Appuyez pour mettre l'alimentation en marche.
- 7 Touche de mode TUNER BAND/FM
- 8 Appuyez pour sélectionner le mode synchro.
- 9 Appuyez pour sélectionner la gamme.
- 10 Appuyez pour mettre l'alimentation en marche.
- 11 Appuyez pour sélectionner le mode marche.
- 12 Appuyez sur ONE TOUCH REC
- 13 Bouton LOCK/RELEASE
- 14 LOCK: Pour bloquer le porte cassette.
- 15 RELEASE: Pour ouvrir le porte cassette.
- 16 Porte cassette
- 17 Touche MULTI CONTROL
 - ▶▶▶▶▶ Lorsque le mode est réglé sur TAPE)
 - ▶▶▶▶▶ Appuyez pour rebobiner la bande.
 - ▶▶▶▶▶ Appuyez pour arrêter la lecture.
 - ▶▶▶▶▶ Appuyez pour l'avance rapide de la bande.
 - ▶▶▶▶▶ Lorsque le mode est réglé sur TUNER)
 - ▶▶▶▶▶ Synchronisation automatique/synchronisation manuelle.

Sección sintonizador/platine

Section sintoniseur/platine

Rear panel



- 1) DC IN 12V jack (⊕/⊖)
- 2) Headphone jack (PHONES) (3.5 mm dia stereo mini)
- 3) AUX IN (AUX input) jack
- 4) Telescopie antenna
- 5) AC IN (AC input) jack
- 6) Battery compartment cover

- 1) Jack DC IN 12 V (⊕/⊖)
- 2) Jack de auriculares (PHONES) (mini estéreo de 3,5 mm de diám.)
- 3) Conexión de auriculares (impedancia de 16 Ω)
- 4) Conexión de antena telescópica
- 5) Conexión de CA (AC IN)
- 6) Cubierta del compart. de pilas

- 1) Prise d'entrée CC 12 V (DC IN) (⊕/⊖)
- 2) Prise de casque d'écoute (PHONES) (mini stéréo de 3,5 mm de diamètre)
- 3) Prise de casque d'écoute (impedance de 16 Ω)
- 4) Prise de casque d'écoute (impedance de 16 Ω)
- 5) Prise de casque d'écoute (impedance de 16 Ω)
- 6) Prise de casque d'écoute (impedance de 16 Ω)

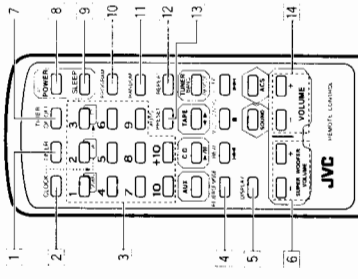
Panel trasero

Panneau arrière

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

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

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



- 1. TIMER button
- 2. Press to change the mode to TIMER.
- 3. CLOCK button
- 4. Press to adjust the clock.
- 5. Number buttons (1-10, +10)
- 6. (When the mode is set to CD)
- 7. Press to play specific tracks or to program tracks.
- 8. (When the mode is set to TUNER)
- 9. Press to select preset stations.
- 10. Buttons 1-3 are also used for clock adjustment and timer operation (see page 31).
- 11. REVERSE MODE button
- 12. DISPLAY button
- 13. SUPER WOOFER VOLUME buttons (+/-)
- 14. TUNER ON/OFF button
- 15. Press to cancel or reset the TIMER.
- 16. POWER (AC) button
- 17. When the main unit power is supplied from batteries, pressing this button will not turn the main unit on. Press this button only when the POWER button on the main unit.
- 18. SLEEP button
- 19. Press to select the program play mode
- 20. RANDOM button
- 21. REPEAT button
- 22. BROWSE button
- 23. VOLUME buttons (+/-)

Utilización de la unidad de control remoto

- Apuntar hacia el sensor remoto y hacerla funcional dentro de un radio de 7 m, aproximadamente.
- El radio de acción del controlador remoto es menor cuando se lo apunta en ángulo.
- No exponga el sensor remoto a la luz directa del sol o a la luz artificial.
- Asegúrese de que no haya obstáculos entre el sensor remoto y la unidad de control remoto.
- Si la recepción de radio tiene ruido, aleje el control remoto de la unidad principal.

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

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

Utilisation du boîtier de télécommande

- Pointer le boîtier de télécommande vers la section de détection et l'utiliser dans une limite de 7 m environ.
- La portée de la télécommande devient plus courte quand le boîtier est utilisé en formant un angle.
- Ne pas exposer la section du détecteur de la télécommande à la lumière forte (soleil ou éclairage artificiel).
- S'assurer qu'il n'y a pas d'obstacles entre la section du détecteur de télécommande et la télécommande.
- Si la réception radio est bruyée, éloigner la télécommande de l'appareil principal.

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

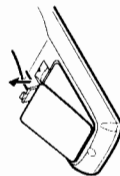
- Bien étudier les fonctions des touches de fonctionnement et les utiliser correctement.

REMOTE CONTROL UNIT

Preparation before use

- **Installation de las pilas en la unidad de control remoto**
- 1. Remove the battery cover from the back of the remote control unit.
- 2. Insert two regular (1.5F) size batteries.
- 3. Make sure the (+) and (-) terminals match the indication inside the battery compartment.
- 4. Replace the cover.

Batteries are not provided with this unit.

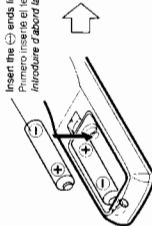


Battery replacement

When the remote control operation becomes unstable or the distance from which remote control is possible decreases, replace the batteries.

Reemplazo de las pilas

Cuando el funcionamiento del controlador remoto se vuelve inestable o la distancia dentro de la cual actúa se reduce, reemplace las pilas.



No se han suministrado pilas con esta unidad.

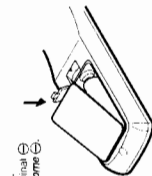
Les piles ne sont pas fournies avec cet appareil.

UNIDAD DE CONTROL REMOTO

BOITIER DE TELECOMMANDE

Preparatifs avant utilisation

- **Mise en place des piles dans le boîtier de télécommande**
- 1. Retirer le couvercle des piles du dos du boîtier.
- 2. Introduire deux piles de taille 1.5F.
- 3. Vérifier que les (+) et (-) indicateurs des bornes (+) et (-) dans le compartiment des piles.
- 4. Remettre en place le couvercle.



Remplacement des piles

Si le fonctionnement de la télécommande devient instable ou si la distance de fonctionnement devient plus courte, remplacer les piles.

1. Touche de minuterie (TIMER)

- 2. Appuyer pour passer en mode de minuterie.
- 3. Touche d'horloge (CLOCK)
- 4. Appuyer pour régler l'horloge.
- 5. Touches numériques (1 à 10, +10)
- 6. (Lorsque le mode est réglé sur CD)
- 7. Appuyer pour sélectionner des pistes spécifiques ou programmer des pistes.
- 8. (Lorsque le mode est réglé sur TUNER)
- 9. Appuyer pour sélectionner des stations préétablies.
- 10. Les touches 1 à 3 sont également utilisées pour le réglage de l'horloge et les opérations de minuterie (voir page 31).
- 11. Touche de mode d'inversion (REVERSE MODE)
- 12. Touche d'affichage (DISPLAY)
- 13. Touches SUPER WOOFER VOLUME (+/-)
- 14. Touche TIMER ON/OFF
- 15. Appuyer pour annuler ou remettre à zéro la minuterie.
- 16. Touche d'alimentation secteur (POWER (AC))
- 17. Lorsque l'alimentation de l'appareil principal est fournie par les piles, une pression sur cette touche ne mettra pas l'alimentation de l'appareil principal en marche. (Dans ce cas, appuyer sur la touche POWER de l'appareil principal.)
- 18. Touche de sommeil (SLEEP)
- 19. Touche PROGRAM
- 20. Appuyer pour sélectionner le mode de lecture programmée.
- 21. Touche RANDOM
- 22. Touche REPEAT
- 23. Touches VOLUME (+/-)

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

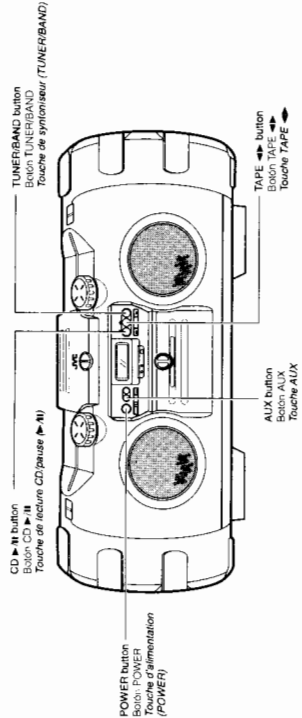
● Los botones que no están aquí mencionados poseen las mismas funciones que los de la unidad principal.

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

SWITCHING THE POWER ON/OFF

CONEXION/DESCONEXION DE LA ALIMENTACION

COMMUTATION MARCHÉ/ARRÊT DE L'ALIMENTATION



Conexión/desconexión de la alimentación

- Conexión:
 - The display window lights (only when AC power is used). Se enciende la ventanilla de indicación sólo cuando se emplea alimentación de CA. La fenêtre d'affichage s'allume (uniquement quand l'alimentation secteur est utilisée).
- Desconexión:
 - The display window light goes off and only the clock time is displayed. Se apaga la ventanilla de indicación y sólo queda indicada la hora del reloj. La fenêtre d'affichage s'éteint et uniquement l'heure de l'horloge est affichée.

Commutation marche/arrêt de l'alimentation

- Mise en marche:
 - The display window lights (only when AC power is used). Se enciende la ventanilla de indicación sólo cuando se emplea alimentación de CA. La fenêtre d'affichage s'allume (uniquement quand l'alimentation secteur est utilisée).
- Mise à l'arrêt:
 - The display window light goes off and only the clock time is displayed. Se apaga la ventanilla de indicación y sólo queda indicada la hora del reloj. La fenêtre d'affichage s'éteint et uniquement l'heure de l'horloge est affichée.

Operación de un solo toque (COMPUPLAY) (solo cuando se usa alimentación de CA)

Cuando la alimentación está colocada en espera, el presionar el botón mostrado abajo conecta la alimentación y selecciona la fuente.

Fonctionnement une touche (COMPUPLAY) (uniquement lorsque l'alimentation secteur est utilisée)

Même lorsque l'alimentation est réglée en attente, le presser sur la touche montrée ci-dessous met l'alimentation sur marche et sélectionne la source.

Switching the power on/off

- Switching on:
 - The display window lights (only when AC power is used). Se enciende la ventanilla de indicación sólo cuando se emplea alimentación de CA. La fenêtre d'affichage s'allume (uniquement quand l'alimentation secteur est utilisée).
- Switching off:
 - The display window light goes off and only the clock time is displayed. Se apaga la ventanilla de indicación y sólo queda indicada la hora del reloj. La fenêtre d'affichage s'éteint et uniquement l'heure de l'horloge est affichée.

Switching the power on/off

- Switching on:
 - The display window lights (only when AC power is used). Se enciende la ventanilla de indicación sólo cuando se emplea alimentación de CA. La fenêtre d'affichage s'allume (uniquement quand l'alimentation secteur est utilisée).
- Switching off:
 - The display window light goes off and only the clock time is displayed. Se apaga la ventanilla de indicación y sólo queda indicada la hora del reloj. La fenêtre d'affichage s'éteint et uniquement l'heure de l'horloge est affichée.

Operación de un solo toque (COMPUPLAY) (solo cuando se usa alimentación de CA)

Cuando la alimentación está colocada en espera, el presionar el botón mostrado abajo conecta la alimentación y selecciona la fuente.

Fonctionnement une touche (COMPUPLAY) (uniquement lorsque l'alimentation secteur est utilisée)

Même lorsque l'alimentation est réglée en attente, le presser sur la touche montrée ci-dessous met l'alimentation sur marche et sélectionne la source.

Function mode Modo de función Mode fonction	Operations Operaciones Opérations
CD	When this button is pressed with CD loaded, CD playback begins. Cuando se presiona este botón habiendo una cinta colocada, comienza la reproducción de la cinta. Lorsque cette touche est pressée avec un disque audiovisuel chargé, la lecture CD commence.
TAPE	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 cinta. Lorsque cette touche est pressée avec une cassette chargée, la lecture de la cassette commence.
TUNER	When this button is pressed, the tuner is engaged. Cuando se presiona este botón, el sintonizador se engage. Lorsque cette touche est pressée, le sintoniseur est engagé.
AUX	A sound source connected to the AUX IN terminal can be engaged. Es posible activar una fuente de sonido que está conectada al terminal AUX IN. Une source de son rattachée à la borne AUX IN peut être engagée.

Notes:

- COMPUPLAY doesn't function when the unit is used with batteries or a car adapter. Press the POWER button to turn on. To avoid battery exhaustion, the display window doesn't light either when the power is switched ON.
- When switching off the power, be sure to press the POWER button.
- The COMPUPLAY function on the remote control has the same function as that on the main unit.

Notas:

- COMPUPLAY no funciona cuando la unidad es usada con pilas o el adaptador de automóvil. Presione el botón POWER para conectar la alimentación. Para evitar que la batería se agote, la ventanilla de indicación no se enciende aunque la alimentación esté conectada ON.
- Para desconectar la alimentación asegúrese de presionar el botón POWER.
- El función COMPUPLAY del controlador principal tiene la misma función que el de la unidad principal.

Remarques:

- COMPUPLAY ne fonctionne pas quand l'unité est utilisée avec des piles ou un adaptateur automobile. Appuyer sur la touche POWER pour mettre en marche. Pour éviter le vidage des piles, la fenêtre d'affichage ne s'allume pas même quand l'alimentation est allumée.
- Pour couper l'alimentation, s'assurer de bien appuyer sur la touche POWER.
- La fonction COMPUPLAY de l'appareil principal a la même fonction que celle sur l'appareil principal.

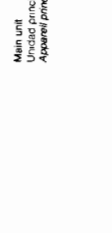
VOLUME, SOUND MODE AND OTHER CONTROLS

VOLUMEN, MODO DE SONIDO Y OTROS CONTROLES

VOLUME, MODE DE SON ET AUTRES COMMANDES

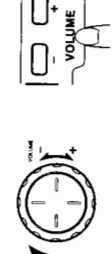
VOLUME control

- + : Use to increase the volume. (Control range is VOL 1 to VOL 50.)
- : Use to decrease the volume. (Control range is VOL 1 to VOL 50.)
- The volume level is displayed in the display window for 2 seconds.



Botón VOLUME

- + : Uselo para aumentar el volumen. (Los límites de control van de VOL.1 a VOL.50.)
- : Uselo para reducir el volumen. (Los límites de control van de VOL.1 a VOL.50.)
- El nivel de volumen es indicado en la ventanilla de indicación durante 2 segundos.



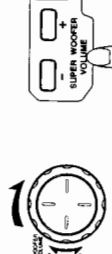
SUPER WOOFER VOLUME control

- + : Use to emphasize the bass sound. (Control range from BASS 1 to BASS 6.)
- : Use to tone down the bass sound. (Control range from BASS 1 to BASS 6.)
- The level of volume is indicated in the display window for 2 seconds.



Control SUPER WOOFER VOLUME

- + : Empleo para enfatizar el sonido grave. (Los límites de control son de BASS 1 a BASS 6.)
- : Empleo para reducir el sonido grave. (Los límites de control son de BASS 1 a BASS 6.)
- El nivel del volumen es indicado en la ventanilla de indicación durante 2 segundos.



Note:

Because it is rotary, the VOLUME control knob does not have a volume stopper. Check the volume level in the display window when adjusting.

Note:

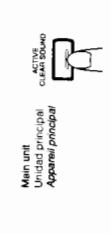
Como la perilla de control VOLUME y la de control SUPER WOOFER VOLUME son giratorias, no hay tope de volumen. Compruebe el nivel de volumen en la ventanilla de indicación durante el ajuste.

ACTIVE CLEAR SOUND* button

Use the ACTIVE CLEAR SOUND (ACS) button to resume the reproduction of sound. Press the ACTIVE CLEAR SOUND button to turn it ON/OFF.

Active Clear Sound (ACS)

The Active Sound (ACS) circuit emphasizes high-frequency sound without losing the signal-to-noise ratio, while adjusting the balance between the high and low-frequency sound and the low-frequency heavy bass sound.

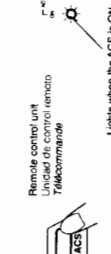


Botón ACTIVE CLEAR SOUND*

Emplee el botón ACTIVE CLEAR SOUND (ACS) para reanudar la reproducción de sonido. Presione el botón ACTIVE CLEAR SOUND para conectar/desconectar ON/OFF.

Active Clear Sound (ACS)

El circuito Active Clear Sound (ACS) enfatiza el sonido de alta frecuencia sin reducir la relación señal - ruido, al mismo tiempo que ajusta la salida de acuerdo al nivel de la señal de los sonidos graves en un balance mejorado entre los sonidos graves de baja frecuencia y los sonidos graves de baja frecuencia.



Blinks when the ACS is ON.

Se enciende cuando ACS está en funcionamiento.

Blinks depending on the volume level.

Destella dependiendo del nivel de volumen. (Clases en función del nivel de volumen.)

Comando SUPER WOOFER VOLUME

- + : Utilisar para relover le son grave. (Gama de comando de BASS 1 à BASS 6.)
- : Utilisar para réduire le son grave. (Gama de commande de BASS 1 à BASS 6.)
- Le niveau du volume est affiché dans la fenêtre d'affichage pendant 2 secondes.

Remarque:

Comme les boutons de commande VOL.UME et SUPER WOOFER VOLUME sont rotatifs, il n'y a pas de butée de volume. Vérifier le niveau de volume dans la fenêtre d'affichage en ajustant.

Touche ACTIVE CLEAR SOUND*

Utiliser la touche ACTIVE CLEAR SOUND (ACS) pour relancer la reproduction sonore. Appuyer sur la touche ACTIVE CLEAR SOUND pour la mettre en marche/arrêt.

*** ACS (Son clair actif)**

Le circuit ACS (Son clair actif) met en valeur le son haute fréquence sans faire chuter le rapport signal sur bruit, tout en ajustant sa sortie en fonction du niveau du signal d'entrée. Ce qui donne un meilleur équilibre entre la son haute fréquence et le son grave lourd basse fréquence.

Blinks depending on the volume level.

Destella dependiendo del nivel de volumen. (Clases en función del nivel de volumen.)

HANDLING CDS	MANIPULACION DE CD	MANIPULATION DES DISQUES AUDIOMÉTRIQUES
<p>Since dirty, damaged and warped CDs may damage the unit, take care regarding the following:</p> <p>Use CDs with the mark shown</p> <p>Notes on handling CDs</p> <ul style="list-style-type: none"> Do not touch the reflective, recorded side Do not stick or write anything on the label side Do not bend CDs <p>Storage</p> <ul style="list-style-type: none"> After removing a CD from the unit, be sure to store it in the CD jewel case or in a CD sleeve. Use CD sleeves with tamper-evident seals. Do not store CDs in direct sunlight, high temperatures from a heater, etc., high humidity, or dust. <p>Cleaning CDs</p> <ul style="list-style-type: none"> Before loading a CD, wipe off any dust, fingerprints, or other marks with a soft cloth. The cloth should be cleaned by wiping radially from the center to the edge. <p>Never use thinner, benzene, record cleaner or antistatic spray.</p>	<p>Como los CD sucios, dañados o abastados pueden dañar la unidad, tome precauciones en relación a lo siguiente:</p> <p>Utilice CD con la marca indicada.</p> <p>Notas sobre manipulación de CD</p> <ul style="list-style-type: none"> No toque la superficie grabada, reflejante o no grabada de los discos. No pegue nada sobre el lado de la etiqueta. No doble los CD. <p>Almacenamiento</p> <ul style="list-style-type: none"> Después de extraer un CD de la unidad asegúrese de colocarlo otra vez en su caja protectora (CD jewel case) o en una funda para CD. Use fundas para CD con sellos de seguridad. No guarde los CD en lugares con luz solar directa, altas temperaturas, cerca de un calentador, etc., alta humedad o polvo. <p>Limpieza de CD</p> <ul style="list-style-type: none"> Antes de colocar un CD, limpie el polvo, sudor o huellas digitales con un paño suave. Los CD deben ser limpiados cuidadosamente desde el centro hacia el borde. <p>Nunca utilice solvente, bencina, limpiador de discos o aerosol antistático.</p>	<p>Comme la saleté, des disques endommagés ou gondolés peuvent provoquer des dommages à l'appareil, faire attention aux points suivants:</p> <p>Utiliser des disques portant la marque montrée</p> <p>Remarques sur la manipulation des disques</p> <ul style="list-style-type: none"> Né pas toucher la surface enregistrée ou non enregistrée des disques. Né pas coller ni écrire sur la face portant l'étiquette. <p>Stockage</p> <ul style="list-style-type: none"> Après avoir retiré d'un disque de l'appareil, s'assurer de bien le remettre dans son boîtier. Né pas exposer les disques en plein soleil, à de hautes températures comme près d'un appareil de chauffage, dans les endroits très humides ou sales. <p>Nettoyage d'un disque</p> <ul style="list-style-type: none"> Avant de charger un disque, essuyer la poussière, la saleté ou les empreintes digitales à la surface du disque avec un chiffon doux. Le disque doit être nettoyé de l'intérieur vers l'extérieur. <p>Né jamais utiliser de diluant, de benzène, du nettoyant pour les disques, antistatiques ou un jet pulvérisé antistatique.</p>
<p>COMPACT disc DIGITAL AUDIO</p> <p>Removing the CD from its storage case and loading it.</p> <p>Extraction des CD de sa boîte y colocación del mismo.</p> <p>Retirar el disco del boîtier de rangement et mise en place.</p> <p>Press the center and lift out.</p> <p>Presione el centro y levántelo.</p> <p>Appuyer au milieu et lever.</p>	<p>Press the center of the CD.</p> <p>Presione el centro del CD.</p> <p>Appuyer pour placer le disque.</p>	<p>Incorrect handling</p> <p>Incorrect manipulation</p> <p>Correct handling</p> <p>Correct manipulation</p>
<p>Note: CDs should like a heart, flower, etc. (especially, heart-shaped CDs) be used with this type of CD is loaded, it will cause a trouble</p>	<p>Note: Les CD sous forme de cœur, de fleur, etc. (CD en forme de cœur, de fleur, etc.) ne doivent pas être utilisés avec ce type de CD. Si (coloca estos tipos de CD, se producirá un fallo</p>	<p>Remarque: Des CD en forme de cœur, de fleur, etc. (CD en forme de cœur, de fleur, etc.) ne doivent pas être utilisés avec ce type de CD. Si ce type de CD est chargé, il causera un problème de fonctionnement.</p>

Touche de mode de son
Les modes de son peuvent être sélectionnés pour relever le type de musique lu.

Botón de modo de sonido
Los modos de sonido pueden ser seleccionados para realizar el tipo de música que está siendo reproducida.

Sound mode button
Sound modes can be selected to enhance the type of music being played.

Appuyer sur la touche SOUND pour sélectionner le mode de son.

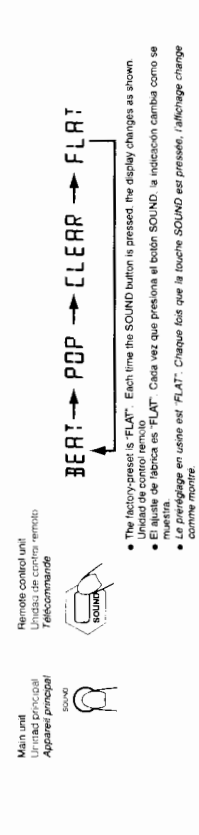
Chaque fois que la touche SOUND est pressée, le mode de son change comme suit:

Presione el botón SOUND para seleccionar el modo de sonido.

Cada vez que presiona el botón SOUND, el modo de sonido cambia de la forma siguiente:

Press the SOUND button to select the sound mode.

Each time the SOUND button is pressed the sound mode changes as follows.



Sélection du mode de son
Régler sur cette position pour de la musique avec un rythme important, telle la musique rock ou le jazz.

Selección del modo de sonido
Colóquelo en esta posición para música con ritmo pesado tal como rock o música de pop.

Sound mode selection
Set to this position for music with a heavy beat, such as rock or disco music.

Régler sur cette position pour de la musique vocale.

Régler sur cette position pour de la musique classique.

Colóquelo en esta posición para música suave, incluyendo música popular y vocal.

Colóquelo en esta posición para música con sonido vudú y ciao con alicia transparentes.

Set to this position for light music including popular and vocal music.

Set to this position for crisp and clear sounding music with transparent highs.

Remarque: Les modes sélectionnés n'affectent que le sortie de son des haut-parleurs ou du casque d'écoute. Ils n'affectent pas le son enregistrement.

Note: Los modos seleccionados solo afectan la salida de sonido proveniente de los altavoces o auriculares, pero no afectan el sonido cuando se graba.

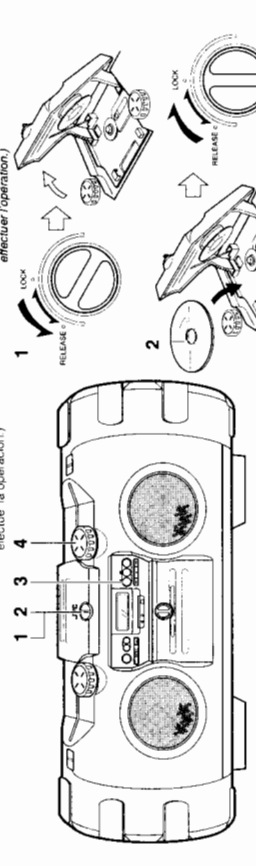
Note: The selected modes only affect the sound output from the speakers or headphones. They do not affect the sound when recording.

LECTURE DE DISQUES AUDIO NUMÉRIQUES

Playing an entire CD
The following example of playing an entire CD is given for reference only. The recommended listening time of 48 minutes 57 seconds.

Operate in the order shown

- When AC power is used (When battery power is used, switch to the POWER button first, then perform operation.)



- 1 Set to RELEASE to open the CD door.
- 2 Load a CD with the label side facing up and close the CD door. Press the CD door down and set to LOCK. Listening for the click that indicates the CD door is securely closed.
- 3 Press to start play.
- 4 Adjust the volume.

Track number
Elapsed playback time
Numero de pista
Tempo de reproducción transcurrido
Dores de lecture écoulée

0:0000

124857

- 8-cm (3") CDs can be used in this unit without an adaptor.
- For stop in the middle of a CD
During play, press the STOP button to stop play.
- For stop temporarily
Press the CD button temporarily and the playing time display blinks. When pressed again, play resumes from the point where it was paused.
- Note:
The following indication may appear when a CD is dirty or scratched, or when the CD is loaded upside down. In such a case, check the CD and insert again after cleaning the CD or turning it over.

Les disques audio numériques de 8 cm peuvent être utilisés dans cet appareil sans utiliser d'adaptateur.

Pour arrêter momentanément un disque
Appuyez sur la touche CD temporairement. La durée de lecture s'arrête momentanément. Lorsque vous appuyez à nouveau sur la touche CD, la lecture reprend à partir du point où elle avait été interrompue.

Remarque:
Lorsqu'un affichage de la durée de lecture apparaît, cela signifie que le CD est sale ou rayé, ou qu'il est inséré à l'envers. Vérifiez le CD et réinsérez-le dans l'appareil.

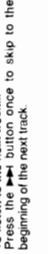


Do not use the unit at excessively high or low temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).

- After playback, unload CDs and close the CD door.
- If mistracking occurs during play, lower the volume.
- Before transporting the unit, take the discs out of the disc tray if possible. If you cannot take the discs out, make sure that the CD is in the CD holder, as this may cause damage to the unit.
- Do not apply shock to the unit or use the unit in an unstable position, otherwise mistracking may occur.

Skip play

During play, it is possible to skip forward to the beginning of the next track. Press the next track button (▶) to skip to the beginning of the next track.



To listen to the next track...
Press the next track button (▶) to skip to the beginning of the next track.

To listen to the previous track...
Press the previous track button (◀) to skip to the beginning of the previous track.



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

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

Keep pressing for fast-reverse search.
Mantenga presionado para la búsqueda inversa rápida.
Maintenez pressée pour la recherche accélérée arrière.

Direct access play (using the remote control unit)

Pressing any of the track number buttons will start play from the beginning of the designated track. (This function cannot be used during programmed play.)

Do not use the unit in a location with high or low temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).

- After playback, unload CDs and close the CD door.
- If mistracking occurs during play, lower the volume.
- Before transporting the unit, take the discs out of the disc tray if possible. If you cannot take the discs out, make sure that the CD is in the CD holder, as this may cause damage to the unit.
- Do not apply shock to the unit or use the unit in an unstable position, otherwise mistracking may occur.

Reproducción con salto

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

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



Para escuchar la pista anterior...
Presione una vez el botón ◀ al principio de la pista que está siendo reproducida. Presione dos veces rápidamente para saltar al principio de la pista anterior.



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

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

Keep pressing for fast-forward search.
Mantenga presionado para la búsqueda progresiva rápida.
Maintenez pressée pour la recherche accélérée avant.

Reproducción por acceso directo (utilizando la unidad de control remoto)

Si presiona cualquiera de los botones de número de pista la reproducción se iniciará desde el principio de la pista escogida. (Esta función no puede ser usada durante la reproducción programada.)

Do not use the unit at excessively high or low temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).

- After playback, unload CDs and close the CD door.
- If mistracking occurs during play, lower the volume.
- Before transporting the unit, take the discs out of the disc tray if possible. If you cannot take the discs out, make sure that the CD is in the CD holder, as this may cause damage to the unit.
- Do not apply shock to the unit or use the unit in an unstable position, otherwise mistracking may occur.

Saut de lecture

Pendant la lecture, il est possible de sauter au début de la piste suivante ou revenir au début de la piste en cours de lecture ou de la piste précédente; quand le début de la piste requise a été localisé, la lecture commence automatiquement.

Pour écouter la piste suivante...
Appuyez une fois sur la touche ▶ pour passer au début de la piste suivante.



Pour écouter la piste précédente...
Appuyez une fois sur la touche ◀ au début de la piste que vous écoutez. Appuyez deux fois rapidement pour passer au début de la piste précédente.



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

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

Keep pressing for fast-forward search.
Mantenga presionado para la búsqueda progresiva rápida.
Maintenez pressée pour la recherche accélérée avant.

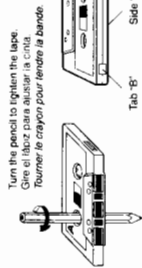
Lecture à accès direct (en utilisant la télécommande)

Une pression sur l'une des touches de numéro de piste fera démarrer la lecture à partir du début de la piste spécifiée. (Cette fonction ne peut pas être utilisée pendant la lecture programmée.)

HANDLING CASSETTE TAPES

- Cassette tapes**
1. Loose tape may cause trouble. Using a pencil or like object, gently lighten the tape as shown.
 2. To prevent recordings from being erased accidentally, remove the tab(s) with a sharp object. Do not use adhesive tape to repair the tabs have been removed.
 3. C-120 cassettes are not recommended because they are prone to malfunction.

- Cassette loading**
1. Set the LOCK/RELEASE knob to RELEASE to open the cassette holder.
 2. Insert a cassette tape as shown.
 3. Close the cassette tape holder, and set the LOCK/RELEASE knob to LOCK, listening for the click that indicates the cassette holder is securely closed.



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 mechanism selects 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.

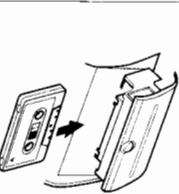
- Cassettes with detection holes:
 - Metal (EQ: 70 µs) Type II
 - CrO₂ (chrome) tape (EQ: 70 µs) Type I
 - Normal tape (EQ: 120 µs) Type I



MANIPULACION DE CASSETTES DE CINTA

- Cassettes de cinta**
1. La cinta floja puede causar problemas al funcionar. Utilice un lápiz u otro objeto similar y enséblese suavemente la cinta tal como se muestra.
 2. Para evitar borrar grabaciones accidentalmente, extraiga las lengüetas con un objeto afilado. No use cinta adhesiva para reparar las lengüetas que se han retirado.
 3. No se recomienda el uso de cassettes C-120 porque tienen tendencia a fallar.

- Colocación de cassettes**
1. Ajuste la perilla LOCK/RELEASE en RELEASE para abrir la portacassete.
 2. Inserte una cinta cassete como se muestra.
 3. Cierre la portacassete y coloque la perilla LOCK/RELEASE en LOCK hasta que escuche un "click" que indica que el portacassete está correctamente cerrado.



Note:
Si se desconecta la alimentación durante el transporte de cinta, puede que sea imposible extraer el cassette. Si ello ocurre, conecte la alimentación otra vez antes de intentar extraer el cassette.

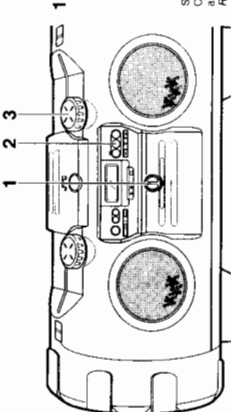
Mecanismo de selección automática de bande
Esta unidad posee un mecanismo de selección automática de la cinta que distingue los diferentes tipos de bandas grabadas en los orificios de la cinta por medio de orificios de detección en la cassete. Después de haber detectado el tipo de cinta, la unidad establece la polarización y ecualización adecuadas para la cinta.

- Cassettes with holes of detection:
 - Metal (EQ: 70 µs) Type II
 - CrO₂ (chrome) (EQ: 70 µs) Type I
 - Normal (EQ: 120 µs) Type I

CASSETTE PLAYBACK

Operate in the order shown

- When AC power is used (Si la pila está agotada, conecte primero el botón de alimentación y luego efectúe la operación).



1. Load a cassette tape with side A facing out.
2. Press to start playback. (The power is switched on and the TAPE mode is engaged to start tape playback.)
3. Adjust the volume.

• After loading a cassette tape, simply press the TAPE button to start playback. (To select the playback direction, press the TAPE button. The change in direction can be checked in the tape direction indicator (◀ or ▶).)

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

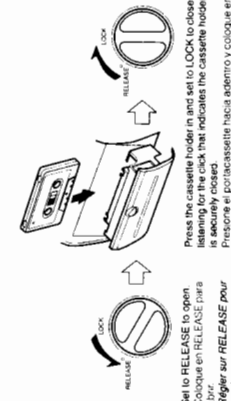
Note:
• Do not turn the LOCK/RELEASE knob until the tape mechanism has stopped moving. When no tape is loaded in the deck, its playback direction can not be switched over.

- How to fast-wind tapes**
1. Press the TAPE button (to set to TAPE mode).
 2. Press the REW (REW) or FF (FF) button.

REPRODUCCION DE CASSETTES

Opere en el orden mostrado

- Cuando emplea alimentación de CA (Si la pila está agotada, conecte primero el botón de alimentación y luego efectúe la operación).



1. Coloque un cassette con la cara A apuntando hacia afuera.
2. Presione para iniciar la reproducción. (Se conecta la alimentación y se activa el modo TAPE para iniciar la reproducción de la cinta).
3. Ajuste el volumen.

• Después de colocar un cassette de cinta simplemente presione el botón TAPE. Se conecta la alimentación y la cinta comienza a ser reproducida. (Para seleccionar el sentido de reproducción, presione el botón TAPE. El cambio de dirección puede ser chequeado en el indicador de dirección de la cinta (◀ o ▶) de la cinta).

• La cinta está siendo reproducida en el modo de inversión (colocado en el modo de reproducción de un solo lado) o en el modo de reproducción de ambos lados) la cinta se detiene automáticamente al fin de la cinta de cada lado. Cuando se reproduce en modo de inversión en el modo de reproducción continuada, la cinta es reproducida continuamente de ambos lados hasta que usted pare la operación.

Note:
• No gire la perilla LOCK/RELEASE hasta que el mecanismo de la cinta haya dejado de moverse.

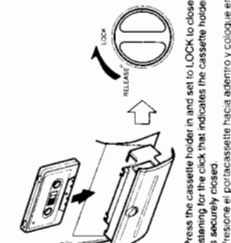
• Cuando no hay cinta colocada en la pila, la dirección de reproducción no puede ser invertida.

- Método para bobinado rápido de cintas**
1. Presione el botón TAPE para activar el modo TAPE.
 2. Presione el botón REW (REW) o FF (FF).

LECTURE DE CASSETTE

Procéder dans l'ordre indiqué

- Lorsque l'alimentation secteur est utilisée (Si l'énergie des piles est utilisée, connecter d'abord la touche d'alimentation, puis effectuer l'opération.)



1. Charger une cassette avec la face A à l'avant.
2. Appuyer pour lancer la lecture. (L'alimentation est mise sur marche et le mode TAPE est engagé pour lancer la lecture de la bande.)
3. Régler le volume.

• Après chargement d'une cassette, appuyer simplement sur la touche TAPE. L'alimentation est mise sur marche et la bande commence la lecture. (Pour sélectionner le sens de lecture, appuyer sur la touche TAPE. Le changement de sens de défilement peut être vérifié avec l'indicateur (◀ ou ▶) de la direction de la bande.)

• Lorsque la cassette est en lecture, 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 fois de plus, à moins jusqu'à ce que vous arrêtez l'opération.

Remarques:
• Ne pas tourner le bouton LOCK/RELEASE tant que le mouvement du mécanisme de la bande n'est pas arrêté.

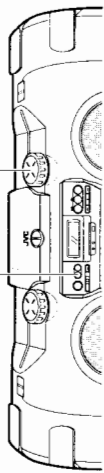
• Lorsque aucune bande n'est chargée dans la cassette, son sens de lecture ne peut pas être communiqué.

- Comment faire défiler rapidement des bandes**
1. Appuyer sur la touche TAPE pour passer en mode TAPE.
 2. Appuyer sur la touche REW (REW) ou FF (FF).

USING WITH ANOTHER AUDIO UNIT
EMPLEO DE OTRA UNIDAD DE AUDIO
UTILISATION AVEC UN AUTRE APPAREIL AUDIO

Operate in the order shown

- When AC power is used, when battery power is used, switch on the power button first, then perform operation.



- Connect the audio unit, turnable MP player, etc. to the AUX IN jack (see page 7). Power is switched on and the AUX mode is engaged.
- Start playback on the connected audio unit. (For more details, refer to the instruction manual of the connected audio unit.)
- Adjust the volume. (The volume level is displayed in the display window.)

Operate in the order shown

- Quando s'empieva alimentazione de CA, (Si s'empieva alimentazione de batería), se debe activar el botón de alimentación y luego efectuar la operación.

PROCÉDER DANS L'ORDRE INDICÉ

- Lorsque l'alimentation secteur est utilisée, (Si l'alimentation de la batterie est utilisée), allumer d'abord la touche d'alimentation, puis effectuer l'opération.

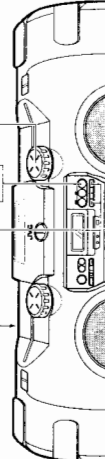
1

- Raccorder l'appareil audio, platine tourne-disque, lecteur MD, etc. à la prise AUX IN (voir page 7). Appuyer sur le bouton d'alimentation et le mode AUX est engagé.
- Commencer la lecture sur l'appareil audio raccorder. (Pour plus de détails, se référer au manuel d'instructions de l'appareil audio raccorder.)
- Ajuster le volume. (Le niveau de l'affichage de la fenêtre d'affichage.)

RADIO RECEPTION

Operate in the order shown

- When AC power is used, when battery power is used, switch on the power button first, then perform operation.



- Press the TUNER BAND button.
- Select the band by pressing the TUNER BAND button.
- Pressing this button switches between FM auto, FM mono and AM.
- Seek tuning (auto tuning) and manual details are available (see page 20 for details).
- Adjust the volume.

RADIORECEPCION

Operate in the order indicated

- Quando s'empieva alimentazione de CA, (Si s'empieva alimentación de batería), se debe activar el botón de alimentación y luego efectuar la operación.



- Presionar el botón TUNER BAND.
- Seleccionar la banda presionando el botón TUNER BAND.
- Presionar este botón conmuta entre FM auto, FM mono y AM.
- La búsqueda por recepción automática y manual están disponibles (ver página 27).
- Ajuste el volumen.

To listen to an FM stereo broadcast

- FM auto: Set to this position by pressing the TUNER BAND button when listening to or recording an FM broadcast. If an FM stereo broadcast is received, the "STEREO" indicator is lit in the display window, and the FM broadcast can be heard in stereo.
- FM mono: Set to this position by pressing the TUNER BAND button if FM stereo reception is noisy. The "MONO" indicator is lit and the sound becomes monaural, but the reception will be improved. When another station is tuned in in this mode, the "MONO" indicator goes off and the unit returns to the FM auto automatically.

Note: FM broadcasts are monaural.

Pour écouter une émission stéréo FM

- FM auto: Régler sur cette position en appuyant sur la touche TUNER BAND pour écouter ou enregistrer un programme de FM. Si une émission stéréo FM est reçue, l'indicateur "STEREO" s'allume dans la fenêtre d'affichage, et l'émission FM peut être entendue en stéréo.
- FM mono: Régler sur cette position en appuyant sur la touche TUNER BAND si la réception stéréo FM est bruyante. L'indicateur "MONO" est allumé et le son devient monophonique, mais la réception sera améliorée. Si une autre émission est synchronisée dans ce mode, l'indicateur "MONO" s'éteint et l'appareil revient automatiquement en mode FM auto.

Remarque: Les émissions AM sont monophoniques.

Búsqueda de sintonía (sintonización automática)

Presione el botón **↔** o **▶▶** durante un segundo para la sintonización automática. La sintonización es automática en la estación, pero también se escuchará la radio de difusión.

Sintonización manual

Cada vez que se presiona el botón **↔** o **▶▶**, la unidad pasa a través de la banda de frecuencia actual. La sintonización es efectuada en pasos de 100 kHz para FM, de 10 kHz para AM.



Notas:

- Quando la búsqueda de sintonía de la estación deseada no es posible debido a la falta de señales de radiofrecuencia, se muestra un mensaje de error en la pantalla de la unidad.
- En el modo de sintonización manual, presione el botón **↔** o **▶▶** para seleccionar la frecuencia de sintonización deseada.
- La sintonización manual se almacena en memoria. Cuando conecta la alimentación en otra vez y presiona el botón TUNER BAND, la unidad sintoniza la misma estación.

Sintonización programada automática

Esta función busca la banda actual de detección de frecuencias usadas para señales de radiofrecuencia y almacena las primeras 30 frecuencias automáticamente en memoria.

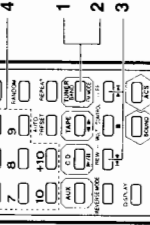
- Presione el botón **PRESET TUNING** durante más de 2 segundos.
- Presione el botón **AUTO PRESET**.

Las frecuencias de las estaciones que están almacenadas en memoria se reproducen automáticamente en FM band and 15 stations in AM band.

Selección de las radiodifusoras deseadas (utilizando la unidad de control remoto)

Es posible programar 30 estaciones en la banda de FM y 15 estaciones en la banda de AM de la siguiente forma:

- Ejemplo: (Presintonización de la radiodifusión de una estación de FM en 103.5 MHz en el canal 15 de programación)



- Presione el botón TUNER BAND/FM MODE.
- Presione la banda de FM utilizando el botón TUNER BAND/FM MODE.
- Sintonice la estación deseada.
- Presione el botón "10" de programación y luego el "15" durante más de 2 segundos. (Cuando el "15" parpadea en la indicación de estación programada, esta ha sido registrada.)

Sintonización por búsqueda (sintonización automática)

Apoyar sur la touche **↔** ou **▶▶** pendant plus d'une seconde, l'appareil passe en mode de recherche pour se synchroniser automatiquement sur la station la plus proche, ainsi l'émission peut être entendue.

Sintonisation manuelle

A chaque pression sur la touche **↔** ou **▶▶**, la fréquence change dans la gamme de fréquence courante. La sintonisation est par pas de 100 kHz en FM et 10 kHz en AM.

Remarques:

- Lorsque la synchronisation par recherche de la station voulue n'est pas possible parce que le signal de diffusion est trop faible, appuyer momentanément sur la touche **↔** ou **▶▶** pour effectuer la sintonisation manuelle.
- Lorsque l'alimentation est réglée sur en attente, ou si un autre mode (TAPE ou CD) est sélectionné, appuyer sur la touche de sintonisation est mémorisée. Quand l'alimentation est remise sur marche et que la touche TUNER BAND est pressée, la même station sera synchronisée.

Synchronisation automatique des préférences

Cette fonction balaye la gamme courante, détectant les fréquences utilisées par les signaux d'émission, et les mémorise automatiquement dans la mémoire AM.

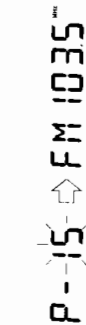
- Appuyer sur la touche **PRESET TUNING** pendant plus de 2 secondes.
- Appuyer sur la touche **AUTO PRESET**.

Les fréquences de stations émetteurs des signaux sont mises en mémoire automatiquement dans l'ordre des fréquences ascendantes. (30 stations dans la gamme FM et 15 stations dans la gamme AM.)

Préréglage des stations désirées (en utilisant la télécommande)

30 stations dans la gamme FM et 15 stations dans la gamme AM peuvent être préprogrammées de la manière suivante:

- Exemple: (Pour préprogrammer une émission d'une station FM sur 103.5 MHz sur la touche de préprogrammage "15")



- Appuyer sur la touche TUNER BAND/FM MODE.
- Sélectionner la gamme FM avec la touche TUNER BAND/FM MODE.
- Synchroniser la station désirée.
- Presser la touche de préprogrammage "10", puis "15" pendant plus de 2 secondes. (Quand "15" clignote dans l'affichage de la station préprogrammée, la station a été préprogrammée.)

RECORDING

GRABACION

ENREGISTREMENT



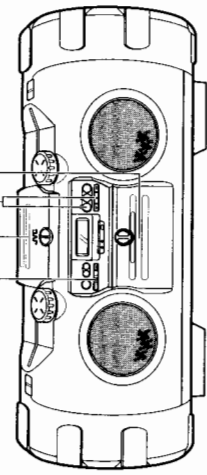
- During recording, the ALC (Automatic Level Control) circuit automatically optimizes the recording level, so manual recording level adjuster manual (level) of the cassette tape is not broken off.

Note:
This unit has recording characteristics suitable for normal and C60 tapes. Normal and C60 tapes have different characteristics from metal tapes.

Synchronized recording with the CD player

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

Operate in the order shown



- 1 Load a CD and close the CD door.
- 2 Press the CD ► button to engage the CD player, then press the STOP button to enter recording mode.
- 3 Load a cassette with side A facing out (Wind past the tape leader before starting recording).
- 4 Select the required reverse mode (← or →) when programmed play is required, program the required tracks using the remote control. (See page 21.)
- 5 Press the ONE TOUCH REC button; recording starts in the forward direction and CD play starts automatically.

- The forward direction indicator (►) blinks and the REC indicator lights up in the display window.
- Non-recorded sections of approx. 4 seconds are automatically left blank.
- When the CD player stops, the tape deck stops automatically.
- To stop recording in the middle, press the STOP button. The cassette deck also stops after 4 seconds.

- Repita el procedimiento anterior para cada una de las otras estaciones, utilizando un botón de presintonización diferente para cada estación.
- Repita el procedimiento anterior para la otra banda.
- Cambie de estaciones presintonizadas. Ejecute el paso 4, dos o tres veces después de sintonizar la estación deseada.

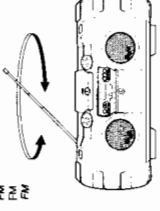
Notes:
• La estación previamente almacenada se borra cuando se almacena otra estación, ya sea de energía eléctrica, etc., coloque las pilas y reemplaza la frecuencia anterior en memoria.
• Cuando escuche una radiodifusión de AM es posible que se escuche ruidos si se utiliza la unidad de control remoto.

Para evitar que las estaciones presintonizadas se borren debido a un corte de energía eléctrica, etc., coloque las pilas de reserva de memoria en la unidad (ver página 8).

Presintonización de radiodifusoras (Recepción de radiodifusoras presintonizadas)

- Las estaciones deben ser presintonizadas antes de que se pueda ejecutar esta operación.
- (Empleando la unidad principal)
 - 1 Presione el botón TUNER BAND.
 - 2 Seleccione la banda empleando el botón TUNER BAND.
 - 3 Cada vez que presiona el botón PRESET TUNING, queda seleccionada la próxima estación presintonizada.
- (Utilizando la unidad de control remoto)
 - 1 Presione el botón TUNER BAND/FM MODE.
 - 2 Seleccione la banda utilizando el botón TUNER BAND/FM MODE.
 - 3 Presione los botones (No. 1 - No. 10 y +10) de la estación presintonizada deseada.
- En caso de que se presione el botón de presintonización y la frecuencia correspondiente al botón presionado.

Utilización de antenas



- FM:** Ajuste la longitud de la antena telescópica en el ángulo y la orientación hasta que logre la recepción óptima.
- AM:** Instale la unidad donde la recepción sea adecuada (cerca de una ventana, etc.) o cambie la orientación de la unidad.

Note:
El núcleo incorporado de la antena de ferrita puede captar interferencias provenientes de los alrededores y disturbando la recepción de AM.

- Repeat the previous procedure for each of the other stations, using a different preset button each time.
- Repeat the previous procedure for the other band.
- To change preset stations. Perform step 4 after tuning to the required station.

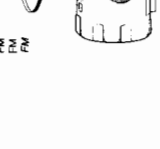
Notes:
• The previously stored station is erased when a new station is stored because the new station's frequency replaces the previous station's.
• When listening to an AM broadcast, noise may be heard if the remote control unit is used.

To prevent the preset stations from being erased because of a power failure, etc., install memory back-up batteries in the unit (see page 8).

Preset station tuning (Receiving the preset stations)

- 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 Each time the PRESET TUNING button is pressed, the next preset station is selected.
- (Using the remote control unit)
 - 1 Press the TUNER BAND/FM MODE button.
 - 2 Select the band using the TUNER BAND/FM MODE button.
 - 3 Press the required preset station buttons (No. 1 - No. 10 and +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas



- FM:** Adjust the telescopic antenna's length, angle and direction until optimum reception is received.
- AM:** Install the unit where suitable reception is possible (beside a window, etc.) or change the direction of the unit.

Note:
The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM reception.

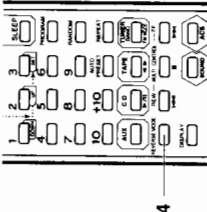
- En enregistrément, le circuit ALC (commande de niveau automatique) optimise automatiquement le niveau d'enregistrément, ainsi l'ajustement du niveau d'enregistrément (niveau manuel) de la cassette n'est pas nécessaire, la cassette n'est pas brisée.

Remarque:
Cet appareil a des caractéristiques d'enregistrément adaptées pour les bandes normales et de C60. Les cassettes normales et C60 ont des caractéristiques différentes des bandes métal.

Enregistrement synchronisé avec le lecteur CD

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

Procéder dans l'ordre indiqué

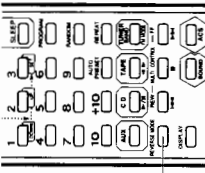


- 1 Chargez un CD et fermez le volet CD.
- 2 Appuyez sur la touche CD ► pour activer le mode CD, puis appuyez sur la touche STOP pour passer en mode d'enr.
- 3 Chargez une cassette avec la face A tournée vers l'extérieur (le leader doit être lancé avant l'enregistrément).
- 4 Sélectionnez le mode d'inversion requis (← ou →).
- 5 Lorsque la lecture programmée est requise, programmez les pistes requises en utilisant la télécommande. (Voir page 21.)

- Sélectionnez les pistes avec une durée de lecture totale qui n'excède pas la longueur de la bande (se référer aux remarques accompagnant la cassette).
- Appuyez sur la touche ONE TOUCH REC; la cassette commence à enregistrer.
- L'enregistrement commence dans la sens avant et la lecture CD commence automatiquement.
- L'indicateur de sens avant (►) clignote et l'indicateur REC s'allume dans la fenêtre d'affichage.

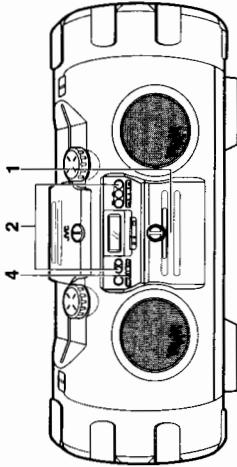
Enregistrement à partir de la radio ou d'une source externe branchée aux bornes AUX IN

Procéder dans l'ordre indiqué



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

Operar en el orden mostrado



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

Operate in the order shown

Remarque:

- Pendant l'enregistrement synchro CD, les touches CD > R et < L (←, →) ne fonctionnent pas.
- Si un enregistrement est terminé dans le sens inverse, le lecteur CD se mettra automatiquement enregistrement sans changer de sons (→/←) jusqu'à la fin de la bande.
- Si la lecture continue (C) est sélectionnée, un enregistrement dans le sens inverse (←) s'arrête automatiquement à la fin de la bande. L'indicateur (C) apparaît dans la fenêtre d'affichage pendant l'enregistrement.

Note:

- Durante la grabación sincronizada de CD los botones CD > R y < L (←, →) no funcionan.
- Si se termina una grabación hacia atrás (←), es posible continuar grabando sin cambiar el modo de grabación. Si se termina hacia adelante (→) la misma llega a su fin.
- Si selecciona la reproducción continuada (C), la grabación hacia atrás (←) para automáticamente al final de la cinta. El indicador C aparece en la indicación durante la grabación.

Note:

- During CD synchro recording, the CD > R and < L (←, →) buttons do not function.
- If a recording is completed in the reverse direction (←), it is possible to continue recording by using the tape direction to record (→) until the tape is used up.
- If continuous play (C) is selected, a recording in the reverse direction (←) automatically stops at the end of the tape. The C indicator appears in the display window during recording.

- **Fonction d'enregistrement CD complet (mode d'enregistrement synchro CD seulement)**
Si la bande est inversée alors qu'un disque est lu, l'enregistrement sera fait sur la face opposée de la bande. L'indicateur (C) apparaît dans la fenêtre d'affichage pendant l'enregistrement.
- **Si un mode de 10 secondes de dernier morceau sur la face avant de la bande a été enregistré, l'enregistrement sur l'autre face de la bande commencera à partir du début de la piste précédente.**
- Si plus de 10 secondes du dernier morceau sur la face avant de la bande a été enregistré, l'enregistrement sur l'autre face de la bande commencera à partir du début de la piste courante.

- **Fonction de grabación del CD completo (modo de grabación sincronizada exclusiva)**
Siendo reproducido, la grabación se ejecutará en el lado opuesto de la cinta, de la siguiente manera:
• Cuando se hayan grabado menos de 10 segundos de la última música en el lado frontal de la cinta, la grabación del otro lado se iniciará desde el principio de la pista anterior.
- Cuando se hayan grabado más de 10 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 actual.

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

Avant enregistrement

Lorsque le sens de défilement de la bande est réglé sur < (sens inverse) après qu'une cassette est introduite...

- 1 Appuyer deux fois sur la touche TAPE < pour changer le sens de défilement de la bande (forward direction).
- 2 Sélectionner la source à enregistrer. Press the TUNER BAND/RFM MODE button.
- 3 Sélectionner la station désirée. Press the AUX FM MODE button.
- 4 Presser le bouton ONE TOUCH REC.

Antes de la grabación

Cuando se ajusta el sentido de la cinta en < (hacia atrás), después que se coloca una cinta de cassette...

- 1 Presione dos veces el botón TAPE < para cambiar el sentido de la cinta a < hacia atrás.
- 2 Presione el botón BAND/RFM MODE.
- 3 Cambie el modo a CD presionando el botón > R de CD.

Before recording

When the tape direction is set to < (reverse direction) after a cassette tape is inserted...

- 1 Press the TAPE < button twice to change the tape direction to < (forward direction).
- 2 Press the BAND/RFM MODE button.
- 3 Change the mode to CD by pressing the CD > R button.

Quand une section non enregistrée entre les morceaux n'est pas nécessaire...

- 1 Appuyer deux fois sur la touche CD > R. Le lecteur CD passa en mode de pause.
- 2 Appuyer sur la touche ONE TOUCH REC pour lancer l'enregistrement.

Cuando no desea una sección sin grabar entre músicas...

- 1 Presione dos veces el botón CD > R. El reproductor de CD ingresará en el modo de pausa.
- 2 Presione el botón ONE TOUCH REC para iniciar la grabación.

When non-recorded section between tunes is not required...

- 1 Press the CD > R button twice. The CD player will enter the pause mode.
- 2 Press the ONE TOUCH REC button to start recording.

Remarque:

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

Note:

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

Pour enregistrer une piste...

Line la piste à enregistrer. Puis une pression sur la touche ONE TOUCH REC réalise le début de l'enregistrement. Lorsque l'enregistrement est terminé, le lecteur CD et la platine à cassette s'arrête tous les deux.

Grabación de una pista...

Coloque el modo a grabación. Luego, al presionar el botón ONE TOUCH REC se inicia la grabación de la pista y activa el modo de grabación de una pista. Después que termina la grabación, el reproductor de CD y la platina de cassette paran.

To record only on side B or in the middle of a track...

Set the reverse mode to < with the remote control unit.

Pour enregistrer uniquement sur la face B ou au milieu d'une bande...

- 1 Presione el botón TAPE < para activar el modo TAPE.
- 2 Ajuste el modo de inversión en < con el control remoto.
- 3 Presione el botón ONE TOUCH REC en la platina de grabación.

Para grabar sólo el lado B o en la mitad de una cinta...

- 1 Coloque el cassette con el lado correcto apuntando hacia afuera.
- 2 Ajuste el modo de inversión en < con el control remoto.
- 3 Presione el botón ONE TOUCH REC en la platina de grabación.

How to rewind a tape

- 1 Press the TAPE < button (to set TAPE mode).
- 2 Press the STOP button.
- 3 Press the REW button.

Méthode pour rebobiner une cassette

- 1 Presione el botón TAPE < (para activar el modo TAPE).
- 2 Presione el botón STOP.
- 3 Presione el botón REW.

Method for rewinding a tape

- 1 Press the TAPE < button (to set TAPE mode).
- 2 Press the STOP button.
- 3 Press the REW button.

1 Charger une cassette avec la face A vers l'extérieur.

- S'assurer que le sens de défilement de la bande est réglé sur > (sens avant).
- Sélectionner la source à enregistrer. Press the TUNER BAND/RFM MODE button.

1 Coloque un cassette con el lado A hacia afuera.

- Asegurarse de colocar el sentido de la cinta en > (hacia adelante).
- Seleccionar la fuente a ser grabada. Press the TUNER BAND/RFM MODE button.

1 Load a cassette with side A facing out.

- Make sure the tape direction is set to > (forward direction).
- Select the source to be recorded. Press the TUNER BAND/RFM MODE button.

2 Appuyer sur la touche ONE TOUCH REC.

- L'enregistrement commence à partir du début de la face A.

3 Sélectionner le mode d'inversion voulu.

- Appuyer sur la touche ONE TOUCH REC.

3 Select the desired reverse mode.

- Press the ONE TOUCH REC button.

3 Sélectionner le mode d'inversion voulu.

- Appuyer sur la touche ONE TOUCH REC.

3 Select the desired reverse mode.

- Press the ONE TOUCH REC button.

3 Select the desired reverse mode.

- Press the ONE TOUCH REC button.

Touch BEAT CUT

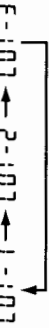
En enregistrant une émission AM, des battements qui ne sont pas entendus lors de la coupe de fréquence peuvent être produits. Dans un tel cas, régler cette touche après réglage de la platine en mode d'enregistrement pour que les battements soient éliminés. Normalement, régler cette touche sur "CUT-1".

Botón BEAT CUT

Cuando graba una radiodifusión de AM, es posible que se escuchan compases inusuales durante la sintonización. En tal caso, ajustar este botón después de activar el modo de grabación de la platina, para eliminar los compases. Normalmente, ajustarse este botón en "CUT-1".

BEAT CUT button

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".



Effacement

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

Borrado

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

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

1. Press the TAPE < button to set the TAPE mode.
2. Insert the cassette to be erased facing out.
3. Press the ONE TOUCH REC button.

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

1. Appuyer sur la touche TAPE < pour régler sur le mode TAPE.
2. Insérer la cassette avec la face à effacer tournée vers l'extérieur.
3. Appuyer sur la touche ONE TOUCH REC.

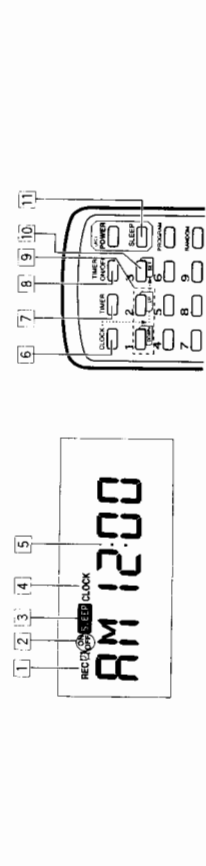
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Puede ser ilegal el grabar o reproducir obras de autores o artistas con copyright sin el consentimiento del dueño de los mismos.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, CDs, etc. without the consent of the owner or copyright holder. This applies to any literary, dramatic, musical, or artistic work embodied therein.

CLOCK ADJUSTMENT (USING THE REMOTE CONTROL UNIT)
REGLAJE DE L'HORLOGE (EN UTILISANT LA TELECOMMANDE)

Names of parts in the clock/timer section, and their functions:
Noms des pièces dans la section horloge/minuterie, et leurs fonctions:



1. Timer mode indicator
2. Indicator (ON/OFF)
3. SLEEP indicator
4. CLOCK indicator
5. Time display
6. Botton CLOCK
7. Botton TIMER
8. Botton ON/OFF
9. Botton DOWN/UP
10. Botton SET
11. SLEEP button

Setting the current time (when this unit is used for the first time)
Réglage de l'heure actuelle (quand cet appareil est utilisé pour la première fois)
(Example: To set the clock to PM 1:15)
(Ejemplo: Para ajustar el reloj a las 1:15 PM)



1. Set the POWER button to ON.
2. Press the CLOCK button. "AM 12:00" will blink in the display.
3. Set to PM 1:15 by pressing the DOWN/UP buttons. (If the button is kept pressed, the minute/ hour indication on the display will flash.)
4. Press the SET button; the time will light in the display.

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

- Press the SET button when you hear the time signal from a TV or radio.
- To confirm the time while listening to a CD or radio broadcast: Press the DISPLAY button briefly on the remote control unit. Press it again to return to the previous display.

Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- If the timer function is not activated, and batteries are exhausted in again after being disconnected, or power is restored after a power failure, "CLOCK" will blink in the display. Set the current time again.

Remarques:

- Avant d'effectuer l'enregistrement ou la lecture par minuterie, il est nécessaire de régler l'heure actuelle.
- Si les piles de soutien mémoire sont épuisées ou non installées, et que le courant ne s'alimente plus après une panne de courant, "CLOCK" clignotera dans l'affichage. Réglez de nouveau l'heure courante.

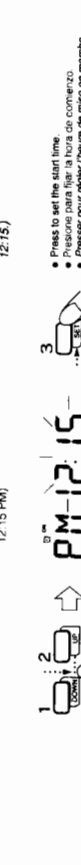
TIMER OPERATIONS (USING THE REMOTE CONTROL UNIT)
OPERACIONES POR TEMPORIZADOR (UTILIZANDO LA UNIDAD DE CONTROL REMOTO)

Setting the timer
• The current time must be set before the timer can be used.

1. Set the POWER button to ON.
2. Press the TIMER button.



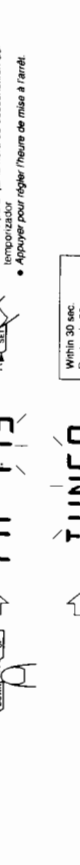
3. Set the start time. (Example: To set the timer to PM 12:15)



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



5. Press to set the timer off time. (Example: Press to set the timer off time to 1:15)



6. Press to set the timer on time. (Example: Press to set the timer on time to 1:15)



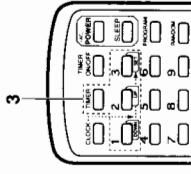
7. Press to set the timer on time. (Example: Press to set the timer on time to 1:15)



Enregistrement par minuterie d'une émission

- L'heure courante doit d'abord être réglée pour pouvoir utiliser la minuterie.
- S'assurer que les languettes de protection contre effacement de la cassette ne sont pas brisées.

Fonctionnement



- 1 Régler la touche POWER sur marche
- 2 Charger une cassette.
 - Introduire la cassette avec la face A vers l'avant.
 - Sélectionner le mode d'inversion requis (← ou →).
- 3 Régler la minuterie. (Se référer à "Réglage de la minuterie" à la page 25.)
 - Régler le sens de défilement de la bande sur ▶ (avant) en appuyant sur la touche TAPE ←▶.
 - Régler la minuterie en appuyant sur la touche de l'heure de l'émission à enregistrer avant l'heure de l'émission à enregistrer.
 - Synchroniser la station à enregistrer. (Se référer à la page 25.)
- 4 Régler la touche POWER en attente.
- 5 Confirmer que l'indicateur de mode de minuterie REC [] est affiché dans la fenêtre d'affichage.

- L'enregistrement par minuterie commencera à l'heure de l'émission à enregistrer et l'alimentation sera coupée à l'heure d'arrêt de la minuterie. (Le mode de minuterie est alors relâché.)
- Pour répéter l'enregistrement par minuterie tous les jours, appuyer sur le bouton TIMER ON/OFF pour afficher l'indicateur de mode de minuterie (REC []) dans la fenêtre d'affichage.
- Pour annuler le fonctionnement de la minuterie, appuyer sur la touche TIMER pour que l'indicateur de mode de minuterie (REC []) s'éteigne. Si vous faites ainsi, l'enregistrement par minuterie ne commencera pas à l'heure de mise en marche de la minuterie.

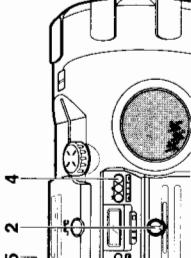
Remarques:

- Une fois la minuterie réglée, les heures de mise en marche et à l'arrêt, etc., sont mises en mémoire. Quand l'enregistrement ou la lecture par minuterie est requis à des heures différentes, la minuterie doit être réglée à nouveau.
- Après avoir réglé les heures de mise en marche et à l'arrêt, appuyer sur la touche TIMER pour que la synchronisation soit effectuée sur la fréquence voulue.
- Si les piles de soutien mémoire sont épuisées ou non installées, et que le cordon d'alimentation est débranché, ou s'il y a une panne de courant, les réglages de la minuterie seront perdus. Réglez la minuterie. Si cela arrive, régler de nouveau l'heure courante et refaire le réglage de la minuterie.

Grabación por temporizador de una radiodifusión

- Antes de utilizar el temporizador es necesario ajustar la hora actual.
- Asegúrese de que las lengüetas de seguridad de la cassette no estén rotas.

Opciones



- 1 Cliquez le bouton POWER en ON.
- 2 Coloque la cassette avec la cara A vers l'avant.
 - Sélectionnez le mode de inversion deseado (← ou →).
- 3 Ajuste el sentido de la cinta en ▶ (hacia adelante) presionando el botón TAPE ←▶.
- 4 Ajuste el temporizador. (Referirse a "Ajuste del temporizador" en la página 32.)
 - Regule el tiempo de grabación en minutos aproximadamente antes del comienzo programado de la radiodifusión a ser grabada.
 - Sintonice la estación a ser grabada. (Referirse a la página 25.)
- 5 Coloque el botón POWER en espera.
- 6 Confirme que el indicador de modo de temporizador (REC []) esté indicado en la ventanilla de indicación.

- 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.)
- Para repetir la grabación por temporizador, presione el botón TIMER ON/OFF para leer la indicación del modo de temporizador (REC []) en la indicación.
- Cancelación de la operación por temporizador. Presione el botón TIMER para apagar el indicador (REC []) de modo de temporizador. Si usted hace esto, la grabación por temporizador no se iniciará a la hora de activación del temporizador.

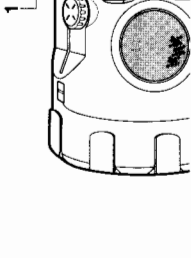
Notas:

- Una vez ajustado el temporizador, la hora de activación y desactivación etc. son registradas en memoria. Cuando se desea ejecutar 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, presione el botón TIMER para que la sincronización en la frecuencia deseada.
- Si las pilas de apoyo de memoria están agotadas o no están colocadas y si el cable de alimentación está desconectado o hay un corte de energía eléctrica, los ajustes del temporizador en memoria se borrarán. Si esto sucede, ajuste la hora actual y ajuste el temporizador otra vez.

Timer recording of broadcast

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

Operations

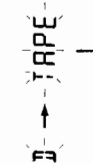


- 1 Set the POWER button to ON.
- 2 Load a cassette.
 - Load the cassette with the side to be recorded facing out.
 - Select the required reverse mode (← or →).
- 3 Set the tape direction to ▶ (forward) by pressing the TAPE ←▶ button.
- 4 Set the timer. (Refer to "Setting the timer" on page 32.)
 - Set 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 25.)
- 5 Set the POWER button to standby.
- 6 Confirm that the timer mode indicator (REC []) is displayed in the display window.

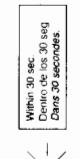
- Timer recording will start at timer start time and the power will be switched off at timer stop time. (The timer mode is then released.)
- To repeat timer recording every day, press the TIMER ON/OFF button to display the timer mode indicator (REC []) in the display window.
- To cancel timer operation. 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, you must adjust the timer start time. After setting the timer start and stop times, check that the timer is tuned to the required frequency.
- If memory back-up batteries are exhausted or not installed, and the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, you must adjust the current time and perform the timer setting again.

Sélectionner le mode TIMER

- Le mode de minuterie sélectionné est montré dans l'affichage.



Quand la touche UP est pressée pour sélectionner le mode de minuterie, l'indicateur de minuterie (reception par minuterie d'une émission), à TUNER (reproduction par minuterie d'une émission) à CD (lecture par minuterie d'un CD), à TAPE (lecture par minuterie d'une bande), dans cet ordre.



Régler le volume

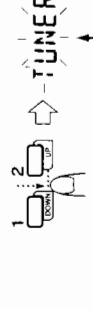


This shows when volume level 1 is selected. Esto aparece cuando se selecciona el nivel de volumen 1. C'est montré quand le niveau de volume 1 est sélectionné.

- The unit enters the previously engaged mode when timer setting has been completed. (The [] indicator lights.)
- La unidad ingresa en el modo previamente activado cuando el ajuste del temporizador quedó completado. (Se enciende el indicador [].)
- L'appareil passe dans le mode engagé précédemment et le réglage de la minuterie est terminé. (L'indicateur [] s'allume.)

Select the TIMER mode

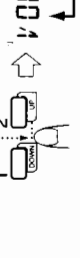
- The selected timer mode is shown in the display.



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



Set the volume



This shows when volume level 1 is selected. Esto aparece cuando se selecciona el nivel de volumen 1. C'est montré quand le niveau de volume 1 est sélectionné.

- The unit enters the previously engaged mode when timer setting has been completed. (The [] indicator lights.)
- La unidad ingresa en el modo previamente activado cuando el ajuste del temporizador quedó completado. (Se enciende el indicador [].)
- L'appareil passe dans le mode engagé précédemment et le réglage de la minuterie est terminé. (L'indicateur [] s'allume.)

Quando il réglage de volume est réglé sur "VOL 1", l'unité ingresse en mode de lecture par minuterie et le volume utilisé avant de régler la minuterie.

- Quand le réglage de volume est réglé sur "VOL 1", l'unité ingresse en mode de lecture par minuterie et le volume utilisé avant de régler la minuterie.
- Pour vérifier le réglage de la minuterie, appuyer sur la touche TAPE. Chaque fois que la touche SET est pressée, le mode de minuterie peut être confirmé.
- Quand le mode engagé précédemment est affiché, le réglage de l'heure est terminé.

Remarque:

- Si l'heure est mal réglée ou si le mode correct n'est pas sélectionné, effectuer "Réglage de la minuterie" à partir du début.

Si se ajusta el volumen en "VOL 1", no se suspende el volumen de la reproducción por temporizador y permanece al nivel utilizado antes de ajustar el temporizador.

- Si se ajusta el volumen en "VOL 1", no se suspende el volumen de la reproducción por temporizador y permanece al nivel utilizado antes de ajustar el temporizador.
- Comprobación del ajuste del temporizador. 1. Presione el botón SET después de presionar el botón TIMER. Cada vez que se presiona la tecla SET, se puede confirmar el modo de minuterie.
- Cuando se activa el modo anterior, el ajuste del temporizador queda completado.

Nota:

- Cuando se ajusta el temporizador incorrectamente o no se selecciona el modo correcto, efectúe el "Ajuste del temporizador" desde el principio.

When the volume setting is set to "VOL 1", the volume level is not suspended, the timer playback volume is at the level used before setting the timer.

- When the volume setting is set to "VOL 1", the volume level is not suspended, the timer playback volume is at the level used before setting the timer.
- To confirm the timer setting. 1. Press the SET button after pressing the TIMER button. Each time the SET button is pressed, the timer setting can be confirmed.
- When the previously engaged mode is displayed, timer setting has been completed.

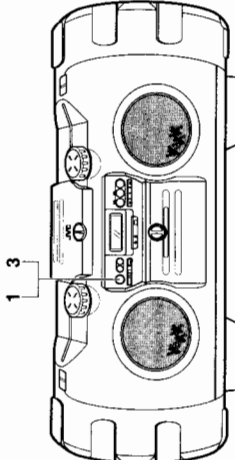
Note:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.

Timer playback

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

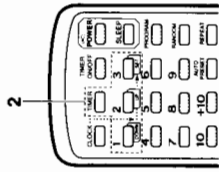
Operations



Lecture par minuterie

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

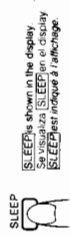
Fonctionnement



Sleep timer operations (using the remote control unit)

- 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 play back (CD 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.

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

- Utilice 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 se indicará después de 5 segundos.

Fonctionnement 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 sintoniser (pour des émissions) ou lire (CD ou cassette).
- 2 Appuyer sur la touche SLEEP pour régler la durée de sommeil.



- Des réglages de durée de sommeil de 30, 60, 90 ou 120 minutes sont possibles. Quand vous relâchez la touche SLEEP, la source est affichée 5 à plus tard.

1 Set the POWER button to ON.

- 2 Set the timer. (Refer to "Setting the timer" on page 32.)

Source sound Son de source	Timer mode Mode de temporizador Mots de minuterie	Operations Opérations
CD play Reproduction de CD	CD CD	Lead a disc. Coloque un disque. Changez un disque.
Tape playback Lecture de bande	TAPE Tape Tape	Load a cassette tape Coloque une cassette. Changez une cassette.
Broadcast Émission	TUNER Tuner TUNER	Tune to the required station. Sintonise la station. Synchronise sur la station voulue.

3 Set the POWER button to standby.

- La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconectará a la hora de finalización. Se desconectará a la hora de la unidad permanecerá en el mismo modo de temporización aun después de desconectar la alimentación. La misma función de temporización se repetirá a la misma hora el día siguiente.
- El indicador de volumen parpadeará cuando se activa el temporizador.
- Cuando se conecta la alimentación es posible hacer que el sonido aumente gradualmente desde el volumen 0 (cero) al volumen actual.

To cancel timer operation

- Press the TIMER ON/OFF button so that the timer mode indicator (T) goes out.

Notes:

- When the volume setting is set to "VOL." (volume level is not set), the timer playback (volume is at the level used before setting the timer. (In this case, the fade-in mode does not function).
- To stop during timer playback, press the POWER button to switch the unit off.

1 Régler la touche POWER sur marche.

- 2 Régler la minuterie. (Se référer à "Régler la minuterie" à la page 32.)

Source sound Son de source	Timer mode Mode de temporizador Mots de minuterie	Operations Opérations
CD play Reproduction de CD	CD CD	Lead a disc. Coloque un disque. Changez un disque.
Tape playback Lecture de bande	TAPE Tape Tape	Load a cassette tape Coloque une cassette. Changez une cassette.
Broadcast Émission	TUNER Tuner TUNER	Tune to the required station. Sintonise la station. Synchronise sur la station voulue.

3 Coloque el botón POWER en espera.

- 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 à l'arrêt de la minuterie.
- L'appareil reste dans le même mode de fonctionnement même après la coupure de l'alimentation. La même fonction de minuterie sera répétée à la même heure le jour suivant.
- Quand le mode de minuterie est activé, l'indicateur T clignote.
- Quand l'alimentation est sur marche, il est possible de faire le son d'un niveau de volume 0 (zéro) au volume réglé.

Pour annuler le fonctionnement de la minuterie

- Appuyez sur la touche TIMER ON/OFF pour que l'indicateur de mode de minuterie (T) s'éteigne.

Remarques:

- Quand le réglage de volume est réglé sur "VOL." (le niveau de volume n'est pas spécifié), le volume de la lecture par minuterie est au niveau utilisé avant de régler la minuterie. (Dans ce cas, le mode d'augmentation en volume ne fonctionne pas.)
- Pour arrêter pendant la lecture par minuterie, appuyez sur la touche POWER pour couper l'alimentation de l'appareil.

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

- Utilice 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 se indicará después de 5 segundos.

1 Set the POWER button to ON.

- 2 Set the timer. (Refer to "Setting the timer" on page 32.)

Source sound Son de source	Timer mode Mode de temporizador Mots de minuterie	Operations Opérations
CD play Reproduction de CD	CD CD	Lead a disc. Coloque un disque. Changez un disque.
Tape playback Lecture de bande	TAPE Tape Tape	Load a cassette tape Coloque une cassette. Changez une cassette.
Broadcast Émission	TUNER Tuner TUNER	Tune to the required station. Sintonise la station. Synchronise sur la station voulue.

3 Coloque el botón POWER en espera.

- La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconectará a la hora de finalización. Se desconectará a la hora de la unidad permanecerá en el mismo modo de temporización aun después de desconectar la alimentación. La misma función de temporización se repetirá a la misma hora el día siguiente.
- El indicador de volumen parpadeará cuando se activa el temporizador.
- Cuando se conecta la alimentación es posible hacer que el sonido aumente gradualmente desde el volumen 0 (cero) al volumen actual.

To cancel timer operation

- Press the TIMER ON/OFF button so that the timer mode indicator (T) goes out.

Notes:

- When the volume setting is set to "VOL." (volume level is not set), the timer playback (volume is at the level used before setting the timer. (In this case, the fade-in mode does not function).
- To stop during timer playback, press the POWER button to switch the unit off.

Fonctionnement 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 sintoniser (pour des émissions) ou lire (CD ou cassette).
- 2 Appuyer sur la touche SLEEP pour régler la durée de sommeil.



- Des réglages de durée de sommeil de 30, 60, 90 ou 120 minutes sont possibles. Quand vous relâchez la touche SLEEP, la source est affichée 5 à plus tard.

1 Set the POWER button to ON.

- 2 Set the timer. (Refer to "Setting the timer" on page 32.)

Source sound Son de source	Timer mode Mode de temporizador Mots de minuterie	Operations Opérations
CD play Reproduction de CD	CD CD	Lead a disc. Coloque un disque. Changez un disque.
Tape playback Lecture de bande	TAPE Tape Tape	Load a cassette tape Coloque une cassette. Changez une cassette.
Broadcast Émission	TUNER Tuner TUNER	Tune to the required station. Sintonise la station. Synchronise sur la station voulue.

3 Coloque el botón POWER en espera.

- La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconectará a la hora de finalización. Se desconectará a la hora de la unidad permanecerá en el mismo modo de temporización aun después de desconectar la alimentación. La misma función de temporización se repetirá a la misma hora el día siguiente.
- El indicador de volumen parpadeará cuando se activa el temporizador.
- Cuando se conecta la alimentación es posible hacer que el sonido aumente gradualmente desde el volumen 0 (cero) al volumen actual.

To cancel timer operation

- Press the TIMER ON/OFF button so that the timer mode indicator (T) goes out.

Notes:

- When the volume setting is set to "VOL." (volume level is not set), the timer playback (volume is at the level used before setting the timer. (In this case, the fade-in mode does not function).
- To stop during timer playback, press the POWER button to switch the unit off.

MAINTENANCE

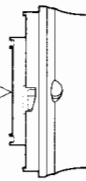


Cleaning is important!

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

Cleaning the heads, capstan and pinch roller
Open the cassette holder, capstan 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.

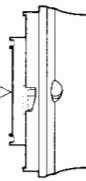
Capstan shaft(s)
Eje(s) de cabezante
Axe(s) de cabestan



Erase head
Cabeza de borrado
Tête d'effacement

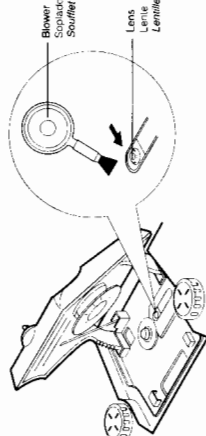
Record/play head
Cabeza de grabación/reproducción
Tête d'enregistrement/lecture

Pinch roller(s)
Rodillo(s) de goma
Gaucho(s) presseur



- Cautions:**
1. Keep magnets and metallic objects away from the head.
If the head becomes magnetized, noise will increase and the sound will deteriorate. Demagnetize the head every 20-30 hours of use with a demagnetizer.
When demagnetizing the head, the POWER button should be set to standby.
 2. Do not use anything other than alcohol for cleaning.
Thinner and benzine will damage the rubber pinch roller.

- Cleaning the lens**
If the lens in the CD pickup is dirty, dropout, etc., could degrade sound.
Open the CD holder and clean the lens as shown.
- Use a blower (available from a camera store) to blow dirt on the lens.
 - If the lens is dirty, clean it with alcohol. Gently wipe clean with a cotton swab.



ENTRETIEN

Le nettoyage est important!

Quando la cinta está girando el polvo magnético y el polvo se acumulan naturalmente en las cabezas, cabrestante y rodillo de goma. Cuando el ruido de fondo se eleva demasiado...

- La calidad del sonido se deteriora.
- El nivel de salida de sonido se reduce completamente.
- Las cintas grabadas no se borran satisfactoriamente.
- Por lo tanto, usted debe limpiar las cabezas, el cabezante y el rodillo de goma después de cada 10 horas de uso para obtener condiciones de grabación óptimas.

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

Erase head
Cabeza de borrado
Tête d'effacement

Record/play head
Cabeza de grabación/reproducción
Tête d'enregistrement/lecture

Pinch roller(s)
Rodillo(s) de goma
Gaucho(s) presseur



Precautions:

1. Mantenga los imanes y los objetos metálicos alejados de la tête.
Si la tête se magnetiza, el ruido aumentará y el sonido se deteriorará. Demagnetice la tête cada 20-30 horas de uso con un desmagnetizador de cabezas (disponible en cualquier tienda de audio).
Cuando desmagnetice la cabeza, el botón POWER debe estar en posición de espera.
2. Para limpiar no utilice ningún otro producto que no sea alcohol.
El diluyente y la bencina dañarán el rodillo de presión de goma.

Limpeza de la lente
Si la lente del lector de CD está sucia o manchada, etc., puede degradar el sonido. Abra el compartimento del CD y limpie la lente como se muestra.

- Utilice un sopador (disponible en una tienda de cámaras), para soplar el polvo de la lente.
- Si la lente está sucia, límpiela con alcohol. Limpie suavemente con un hisopo de algodón.



TROUBLESHOOTING



What appears to be trouble is not always serious. First make sure....

- Power cannot be turned on.
Is the power cord unplugged?
Is the power cord plugged in correctly?
- No sound from the speakers.
Are headphones plugged in?
Is the volume knob turned up?
- Clock time is blinking in the display.
• Was there a power failure?
• Was the power cord unplugged while the memory back-up batteries were not installed?

CD Player Section
• The CD player does not play.
Is the CD upside down?
Is the CD dirty?
Is there condensation on the lens? (See "Cleaning the lens" on page 37.)

• A certain portion of the CD does not play
Is the CD scratched?
Is the CD warped?
Is there condensation on the lens?
When the operation stops,
Switch to power standby and then ON again.

Cassette Deck Section
• Playback sound is at a very low level.
Is the volume knob turned up?
• The ONE TOUCH REC button does not function.
Have the safety tabs of the cassette been broken off?

Timer Section
• Reception is noisy.
Try adjusting the antenna.
Is there a TV set or computer device near the unit?

Timer Section
• Timer operation does not start.
Is the timer mode indicator (T) displayed?
Is the timer mode indicator (T) displayed?

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

Notes:
Many operations of this unit are performed by the control of a microprocessor. If none of the above remedies solve the problem, please remove all the batteries and plug it back in. Reset the correct values for the clock and timer.
• Before making an important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

DETECCION DE PROBLEMAS

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

- No es posible conectar la alimentación.
¿Esta el cordón de alimentación desenchufado?
¿Está el cordón de alimentación conectado correctamente?
- No sale sonido de los altavoces.
¿Hay auriculares conectados?
¿El volumen está ajustado?
- La hora del reloj parpadea en la indicación.
• ¿Hubo un corte eléctrico?
• ¿Estaba el cable de alimentación desenchufado y las pilas de apoyo de memoria no estaban colocadas?

(Sección del reproductor de CD)
• El reproductor de CD no funciona.
¿Está el CD invertido?
¿Está el CD sucio?
¿Hay condensación en la lente? (Ver "Limpieza de la lente" en la página 37.)

• Una cierta porción de un CD no es reproducida.
¿Está el CD rayado?
¿Hay condensación en la lente?
• Cuando la operación para.
• Conque la alimentación en espera y en ON otra vez.

(Sección la pletina de cassette)
• El nivel de reproducción tiene un nivel muy bajo.
¿Está la cabeza sucia?
• No funciona el botón ONE TOUCH REC.
¿Se han extrado las lengüetas de seguridad de la cassette?

(Sección del temporizador)
• La recepción es ruidosa.
• Intente ajustar la antena.
• ¿Hay un TV o computador cerca de la unidad?

(Sección de temporizador)
• La operación por temporizador no se activa.
¿Está el indicador (T) de modo de temporizador indicado?
¿Está el indicador (T) de modo de temporizador indicado?

(Controlador remoto)
• El controlador remoto no funciona.
¿Están las pilas del controlador remoto exhaustas?
¿Está la sección sensor remoto expuesta a una luz brillante (luz solar directa, etc.)?

Nota:
Muchas de las operaciones de esta unidad son controladas por un microprocesador. Si ninguno de los remedios arriba mencionados resuelve el problema, quite todas las pilas del controlador remoto y vuelva a conectarlas. Restablezca los valores correctos para el reloj y el temporizador.
• Antes de hacer un grabación importante, haga una prueba para verificar que la pletina, etc. esté funcionando correctamente.

EN CAS DE PANNES

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

- L'alimentation ne peut pas être fournie.
• Le cordon d'alimentation est-il débranché?
• Pas de son des haut-parleurs.
• Un cassetage est-il branché.
• Le volume est-il réglé?
- L'horloge clignote dans l'affichage.
• Y'a-t-il une panne de courant?
• Le cordon d'alimentation a-t-il été débranché alors que les piles de soutien mémoire n'étaient pas installées?

(Section lecteur CD)
• Le lecteur CD ne lit pas.
• Le disque est-il inversé?
• Le disque est-il sale?
• Y'a-t-il de la condensation sur la lentille? (Voir "Nettoyage de la lentille" à la page 37.)

• Une certaine portion du disque n'est pas reproduite.
• Le disque est-il rayé?
• Le disque est-il sale?
• Y'a-t-il de la condensation sur la lentille?
• Quand l'opération s'arrête.
• Couper l'alimentation en attente puis la remettre en marche.

(Section pletina a cassette)
• Le son de lecture est à un niveau très bas.
• La tête est-elle sale?
• La touche ONE TOUCH REC ne fonctionne pas.
• Les languettes de sécurité de la cassette sont-elles brisées?

(Section synchroniseur)
• La réception contient du bruit.
• Essayer d'ajuster l'antenne.
• Y'a-t-il un téléviseur ou un appareil informatique près de l'appareil?

(Section minuterie)
• Les fonctionnements de la minuterie ne marchent pas.
• L'heure actuelle est-elle réglée correctement?
• Le mode de minuterie (T) est-il affiché?

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

Remarque:
• Lorsque les remèdes ci-dessus n'ont pas suffi.
De nombreuses opérations de cet appareil sont effectuées par la commande d'un microprocesseur. Si aucune des touches ne fonctionne, débranchez le cordon d'alimentation et relier tous les piles, attendre un moment, réglez de nouveau les valeurs pour le rétroéclairage et le cadran.
• Avant de faire un enregistrement important, bien faire un enregistrement d'essai d'abord pour vérifier que la pletine, etc., fonctionne correctement.



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RV-B90

POWERED WOOFER CD SYSTEM
CD CON ALTA VOZ DE GRAVES Y AMPLIFICADOR INCORPORADO
CHAÎNE CD A WOOFER AMPLIFIÉ



VICTOR COMPANY OF JAPAN, LIMITED

CARACTERISTIQUES TECHNIQUES

ESPECIFICACIONES

SPECIFICATIONS

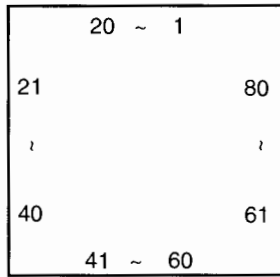
CD player section	Section del reproductor de CD	Section lecteur CD
Type : Compact disc player	Tipo : Reproductor de discos compactos	Type : Lecteur de disque compact
Signal selection : Non-contact optical pickup	Sistema de detección de señal : Capteur óptico sin contacto	Détection de signal : Prélevement optique sans contact
Number of channels : 2 channels	Número de canales : 2 canales	Nombre de canaux : 2 canaux
Frequency response : 20 Hz - 20,000 Hz	Respuesta de frecuencia : 20 Hz - 20,000 Hz	Fréquence : 20 Hz à 20,000 Hz
Signal-to-noise ratio : 90 dB	Relación señal-ruido : 90 dB	Rapport signal/bruit : 90 dB
Wow & flutter : Less than measurable limit	Fluctuación y tremulación : Menor que el límite medible	Plépage et scintillement : Inférieur à la limite mesurable
Radio section : FM 87.5-108 MHz : Telescopic antenna for FM	Límites de frecuencia : FM 87.5-108 MHz : Antena telescópica para FM	Section radio : Gamme de fréquences : Antenne télescopique pour FM
Antennas : Ferrite core antenna for AM	Antenas : Antena de núcleo de ferrita para AM	Antennes : Antennes à noyau de ferrite pour AM
Track system : 4-track 2-channel stereo	Sistema de pistas : 4 pistas 2 canales estéreo	Section platine à cassettes : Système de piste : Moteur CC à régulateur électronique pour le cassetan
Motor : Electronic governor/DC motor for capstan : Non-complimentary feedback 2 gap recording/playback	Motor : Motor de CC controlado electrónicamente : Motor de CC para cinta cabezante : Mecánica dura para grabación y reproducción, ranuras para borrado (Cabeza combinada)	Moteur : Moteur CC à régulateur électronique pour le cassetan : Mécanisme pour l'enregistrement/reproduction à 2 entrees pour le cassetan (Combinaison de têtes)
Heads : Ferrite head for erasure : Combination head	Cabezales : Cabezales de aieación magnética dura para grabación y reproducción, ranuras para borrado (Cabeza combinada)	Têtes : Cassetan pour l'enregistrement/reproduction à 2 entrees pour le cassetan (Combinaison de têtes)
Frequency response : 20 Hz - 20,000 Hz	Respuesta de frecuencia : 20 Hz - 20,000 Hz	Réponse en fréquence : 20 Hz à 20,000 Hz (avec bande C/O)
Wow & flutter : 0.15% (WRMS) : Approx. 150 sec (C-60 cassette)	Fluctuación y tremulación : 0.15% (WRMS) : 150 seg. aprox. (cassette C-60)	Plépage et scintillement : 0.15% (WRMS) : Environ 150 secondes (cassette C-60)
General Speakers (Impedance) : Full range, 8 cm (3.15") x 2 (4) Ω : Super woofer, 16 cm (6.516") x 2 (4) Ω	Características generales : Altavoces (Impedancia) : Límites totales: 8 cm x 2 (4) Ω : Super altavoz de graves: 16 cm x 2 (4) Ω : 6 watts por canal, min. RMS, a 4 Ω : 150 Hz con no más de 10% de distorsión armónica total (para J.S.A.) : 20 W (10 W x 10 W) a 4 Ω (para Canadá) : 4 Ω	Général : Haut-parleurs (Impédance) : Puissance de sortie : Auxiliaires : AUX IN (300 mV/47 kΩ) : PHONES (niveau de sortie automatique) : Impédance caractéristique : 16 Ω x 1 k Ω
Power output : 8 watts per channel, min. RMS, 150 Hz with no more than 10% total harmonic distortion (for U.S.A.) : 10 W (10 W) at 4 Ω (for Canada)	Salida de potencia : 6 watts por canal, min. RMS, a 4 Ω : 150 Hz con no más de 10% de distorsión armónica total (para J.S.A.) : 20 W (10 W x 10 W) a 4 Ω (para Canadá) : 4 Ω	Puissance de sortie : 6 watts par canal, min. RMS, sous 4 Ω de 150 Hz à 15% de distorsion harmonique totale (pour les Etats-Unis) : 20 W (10 W x 10 W) sous 4 Ω (Max.) (pour le Canada) : 4 Ω
Input terminals : PHONES (Output level 0.5V) : DC 150 V/500 Hz : 20 W (10 W) x 10 W (13F) : 10 Ω (23.4 lbs) (with batteries x 10)	Terminales de entrada : PHONES (nivel de salida 0.5V) : CC 150 V (500 Hz) : 20 W (10 W x 10 W) (13F) : 10 Ω (23.4 lbs) (with batteries)	Bornes d'entrée : PHONES (niveau de sortie automatique) : Impédance caractéristique : 16 Ω x 1 k Ω
Power requirements : DC 150 V/500 Hz : 20 W (10 W) x 10 W (13F) : 10 Ω (23.4 lbs) (with batteries x 10)	Requisitos de alimentación : 100 V CA, 60 Hz : Pico de 150 CC (130V) (13F) x 10 : Ex. CC 12V (batería del automóvil vía adaptador de potencia para autonomía CA-R120)	Alimentation : CA 120 V, 60 Hz : Pico de 150 V (pico 130V) x 10 : CC externe 12 V (batterie automobile via adaptateur automobile CA-R120 en option)
Power consumption : 1.4 W (with POWER SW ON standby) : 250 W (9 x 566 Ω) : 27.3 W (8 x 2716 Ω x 11.11167) including knobs : 0.5 kg (21 lbs) (without batteries)	Consumo de energía : 43 W (con POWER SW en espera) : ONK (con POWER SW en espera) : 690 (AV 239 (A1) x 236 (F)) incluyendo las perillas : 27.3 W (8 x 2716 Ω x 11.11167) (con perillas)	Consommation : 43 W (avec l'intermuteur POWER sur ON) : 250 W (avec l'intermuteur POWER sur ON) : 27.3 W (avec les boutons mm Compensant les boutons 9.5 kg (sans piles))
Dimensions : 273 mm (10.75") x 111 mm (4.37") x 111 mm (4.37")	Dimensiones : 690 (AV 239 (A1) x 236 (F))	Dimensions : 690 (L) x 239 (H) x 236 (P)
Weight : 0.5 kg (21 lbs) (without batteries)	Peso : 0.5 kg (con perillas)	Poids : 9.5 kg (sans piles)
Accessories provided : AC power cord x 1 : Remote control unit (RM-RC100) x 1 : Shoulder strap x 1	Suministrados : Unidad de control remoto (RM-RC100) x 1 : Correa para el hombro x 1	Accessoires fournis : Boîtier de télécommande (RM-RC100) x 1 : Bandoulière x 1
Design and specifications are subject to change without notice.	Diseño y especificaciones sujetos a cambio sin aviso.	Présentation et caractéristiques modifiables sans préavis.

EN SP, FR

Discription of Major ICs

■ MN171603J8Z(IC901) : System controller

1. Layout

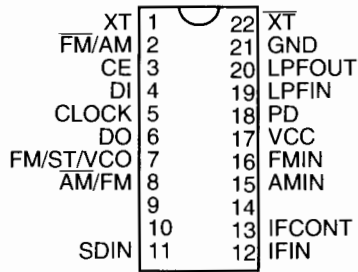


2.Terminal Function

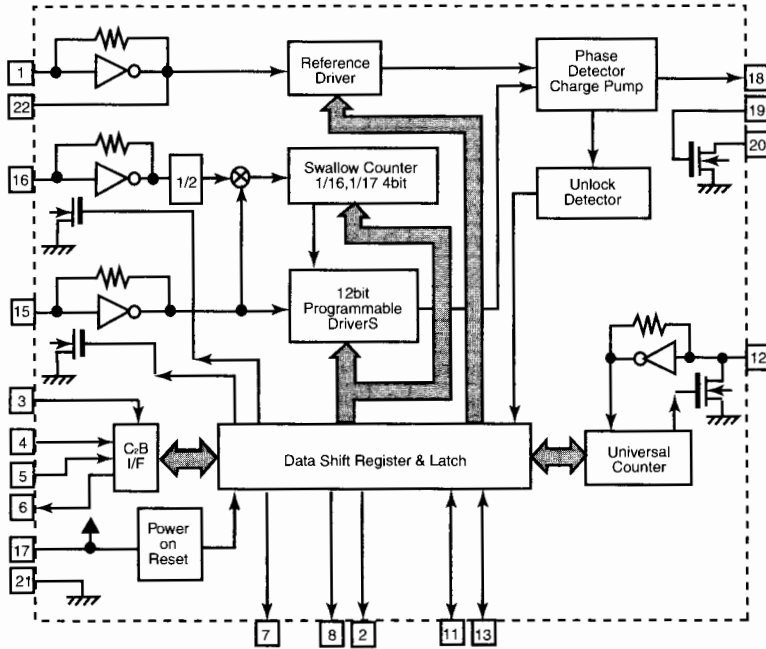
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	VOL1	I	Volume encoder input	43	/TADOOR	I	Version detect
2	VOL2	I	Volume encoder input	44	STTA	O	Output for TAPE control(Strobe signal output)
3	AVSS	-	Connected to GND	45	/WVDL1	O	Super woofer volume output
4	SAFETY1	I	AD0(REG SAFETY)input	46	/WVDL2	O	Super woofer volume output
5	SAFETY2	I	AD1 input	47	/WVDL3	O	Super woofer volume output
6	RESET/DOOR	I	AD2 input	48	SCT	O	
7	KEY	I	AD3(Key) input	49	NC	-	Not use
8	VERSION	I	AD4(VERSION) input	50	POUT	O	System power supply control output
9	KEY1	I	AD5(TAPEO) input	51	/BCTL	O	Analog power supply control output
10	BATT	I	AD6(BATT) input	52	PBMUTE	O	Output for TAPE control(play mute)
11	CDREGSAFE	I	AD7(TEMP SAFETY) input	53	/SMUTE	O	System mute output
12	AVdd	-	A/D convertor reference voltage input	54	/FAUX	O	AUX function control
13	VLCD1	-	LCD power supply input	55	FTU	O	Tuner function control
14	VLCD2	-	LCD power supply input	56	FCO	O	CD function control
15	VLCD3	-	LCD power supply input	57	VOL	O	PWM(main volume) output
16	CDM3	O	LCD common output	58	BASS	O	PWM(BASS) output
17	CDM2	O	LCD common output	59	TRE	O	PWM(TREBLE) output
18	CDM1	O	LCD common output	60	PLAY	I	Input for TAPE control(PLAY detect)
19	CDM0	O	LCD common output	61	AC/DC	I	Input for System power supply detect
20	SEG0	O	LCD segment 0 output	62	BUPI	I	Input for Backup detect
21	SEG1	O	LCD segment 1 output	63	STAT	I	Input for CD control(status)]
22	SEG2	O	LCD segment 2 output	64	XRST	O	Output for CD control(CD-LSi reset)
23	SEG3	O	LCD segment 3 output	65	MLD	O	Output for CD control(Micon data road)
24	SEG4	O	LCD segment 4 output	66	MCLK	O	Output for CD control(Micon clock)
25	SEG5	O	LCD segment 5 output	67	MDATA	O	Output for CD control(Micon data)
26	SEG6	O	LCD segment 6 output	68	/RESET	I	System reset input/output
27	SEG7	O	LCD segment 7 output	69	X1	-	X'tal Oscillator for timer/sub system clock
28	SEG8	O	LCD segment 8 output	70	X0	-	X'tal Oscillator for timer/sub system clock
29	SEG9	O	LCD segment 9 output	71	Vss	-	Connected to GND
30	SEG10	O	LCD segment 10 output	72	OSC2	-	X'tal/Ceramic Oscillator for system clock
31	SEG11	O	LCD segment 11 output	73	OSC1	-	X'tal/Ceramic Oscillator for system clock
32	SEG12	O	LCD segment 12 output	74	Vdd	-	+Power supply
33	SEG13	O	LCD segment 13 output	75	BEAT	O	Output for beat cut control
34	SEG14	O	LCD segment 14 output	76	SOCK	I	Output for CD control(Clock for sub-Q)
35	SEG15	O	LCD segment 15 output	77	SUBQ	I	Input for CD control(Data for sub-Q)
36	SEG16	O	LCD segment 16 output	78	PERIOD	O	Output for Tuner control(Strobe signal)
37	SEG17	O	LCD segment 17 output	79	/HPX	I	Input for Tuner control(Stereo signal)
38	SEG18	O	LCD segment 18 output	80	SCK	O	Serial clock(sift back)input/output
39	SEG19	O	LCD segment 19 output	81	SI	I	Serial data(sift back B)input
40	WVOL1	I	Super woofer volume encoder input	82	SO	O	Serial data(sift back B)output
41	WVOL2	I	Super woofer volume encoder input	83	/REM	I	Remortcontrol signal input/output
42	REEL	I	Input for TAPE control (TAAPE end detect)	84	/PIN	I	Power key input/output

■ LC72136N(IC2):PLL Frequency sinesizer LS1

1. Layout



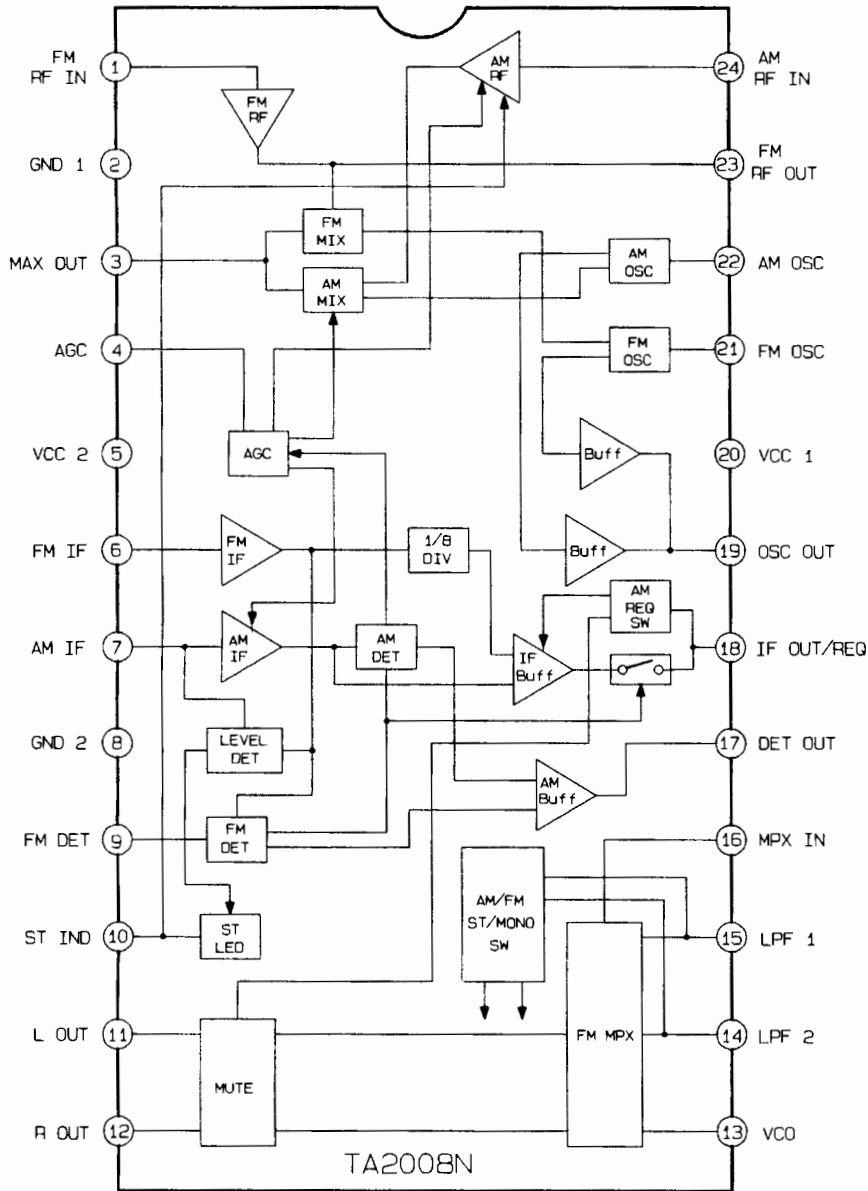
2. Block



3. Function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75KHz)	12	IFIN	I	IF counter signal input
2	FM/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the sirisl data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suply(VDD=4.5~5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	AM/FM	O	Not use	19	LPFIN	I	Input for active lowpassfilter of PLL
9		-	Not use	20	LPFOUT	O	Output for active lowpassfilter of PLL
10		-	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	XT	I	X'tal oscillator(75KHz)

■ TA2008AN IC2:FM RF/IF/DET/MPX AM RF /IF/

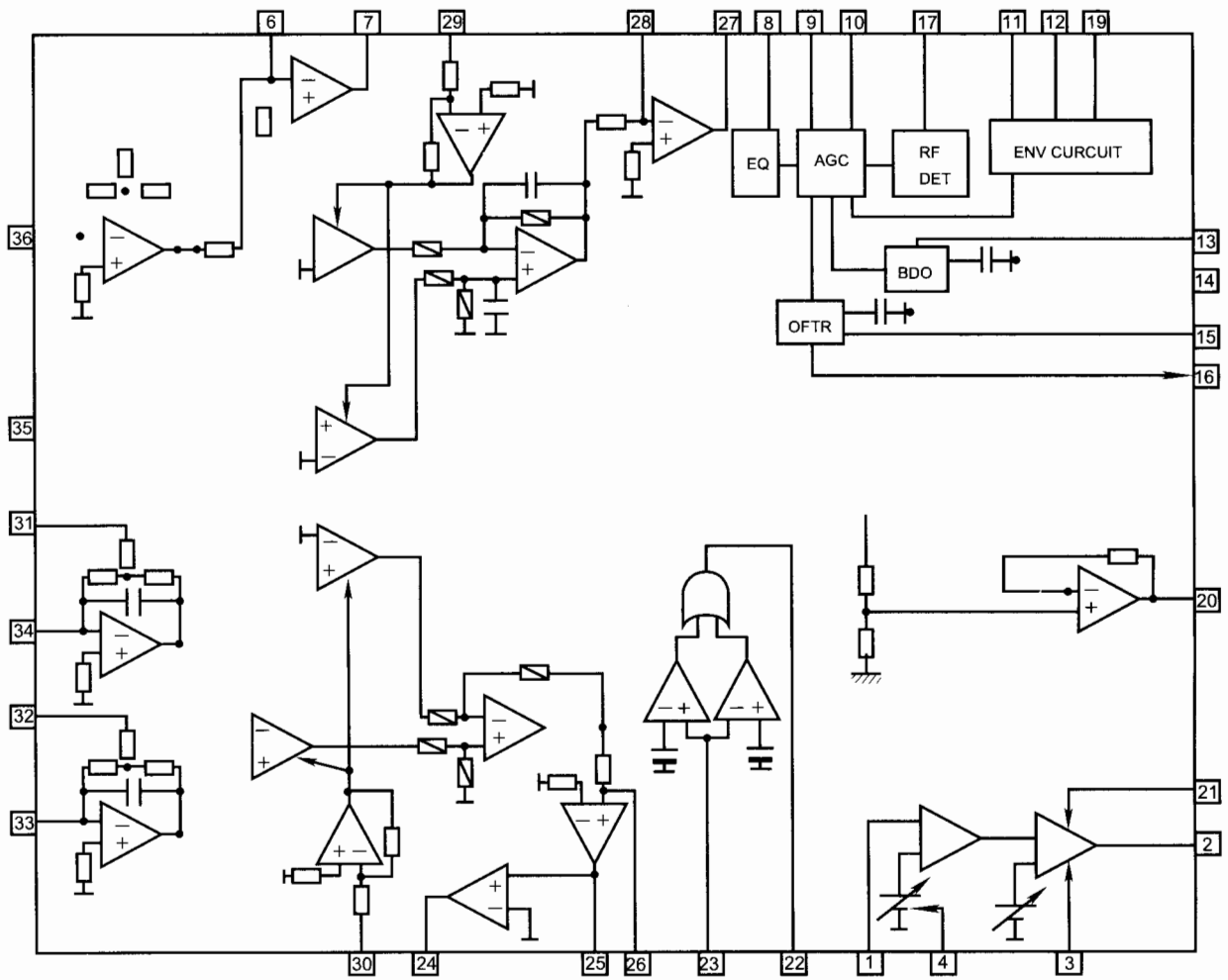


■ AN8806SB(IC601):RF & Servo amp

1.Terminal Layout

PD	1	36	PDAC
LD	2	35	PDBD
LDON	3	34	PDF
LDP	4	33	PDE
VCC	5	32	PDER
RF-	6	31	PDFR
RF OUT	7	30	TBAL
RF IN	8	29	FBAL
C.AGC	9	28	EF-
ARF	10	27	EF OUT
C.ENV	11	26	TE-
C.EA	12	25	TE OUT
CS BDO	13	24	CROSS
BDO	14	23	TE BPF
CS BRT	15	22	VDET
OFTR	16	21	LD OFF
/NRFDET	17	20	VREF
GND	18	19	ENV

2.Block

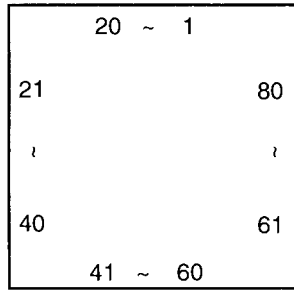


3. Functions

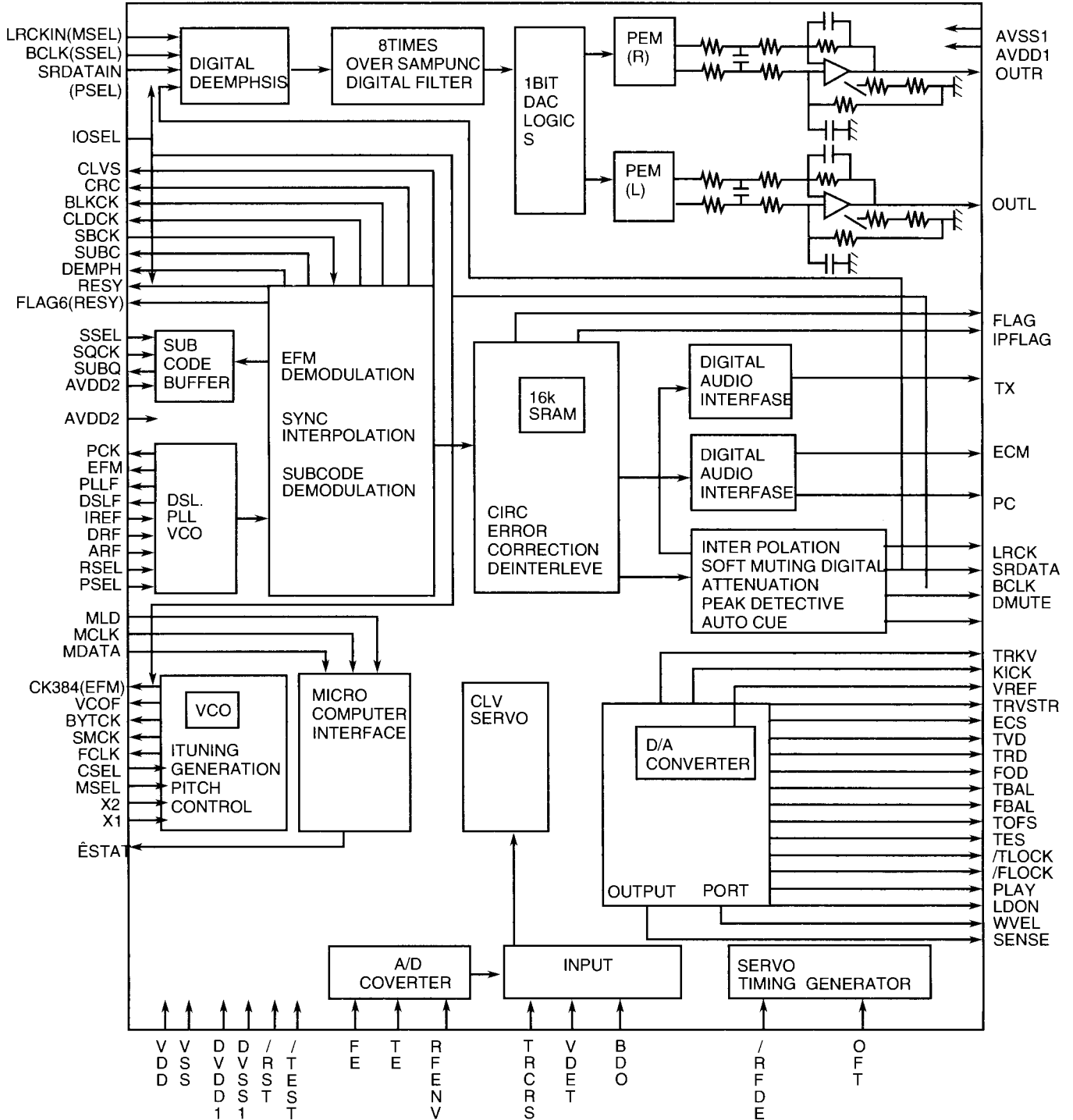
Pin No.	Symbol	I/O	Functions and operations
1	PD	I	APC amp input terminal
2	LD	O	APC amp output terminal
3	LD ON	I	APC ON/OFF control terminal
4	LDP	--	Connect to ground
5	VCC	--	Power supply
6	RF-	I	Inverse input pin for RF amp
7	RF OUT	O	RFamp output
8	RF IN	I	RF input
9	C.AGC	I/O	Connecting pin of AGC loop filter
10	ARF	O	RF output
11	C.ENV	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
12	C.EA	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
13	CS BDO	I/O	A capacitor is connected to detect the lower envelope of RF signal
14	BDO	O	BDO output pin
15	CS BRT	I/O	A capacitor is connected to detect the lower envelope of RF signal
16	OFTR	O	Of-track status signal output
17	/NRFDET	O	RF detection signal output
18	GND	--	Ground
19	ENV	O	Envelope output
20	VREF	O	Reference voltage output
21	LD OFF	--	Connect to ground
22	VDET	O	Vibration detection signal output
23	TE BPF	I	Input pin of tracking error through BPF
24	CROSS	O	Tracking error cross output
25	TE OUT	O	Tracking error signal output
26	TE-	I	Inverse input pin for tracking error amp
27	FE OUT	O	Output pin of focus error
28	FE-	I	Inverse input pin for focus error amp
29	FBAL	I	Focus balance control
30	TBAL	I	Tracking balance control
31	PDFR	I/O	F I-V amp gain control
32	PDER	I/O	E I-V amp gain control
33	PDF	I	I-V amp input
34	PDE	I	I-V amp input
35	PD BD	I	I-V amp input
36	PD AC	I	I-V amp input

■ MN35510(IC603):DIGITAL SERVO&DIGITAL SIGNAL PROCESSER

1. Terminal Layout



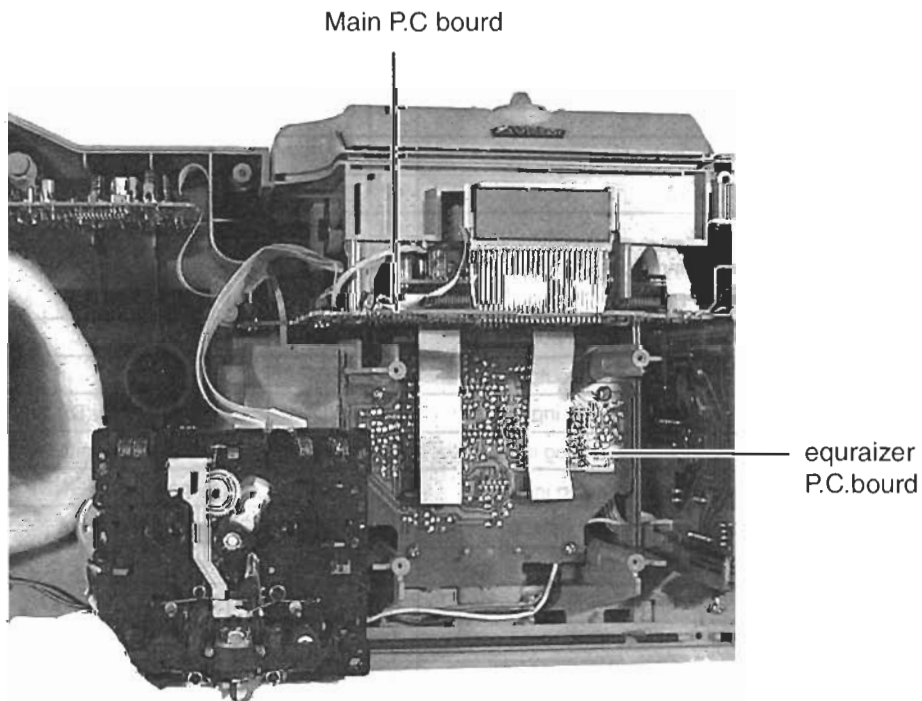
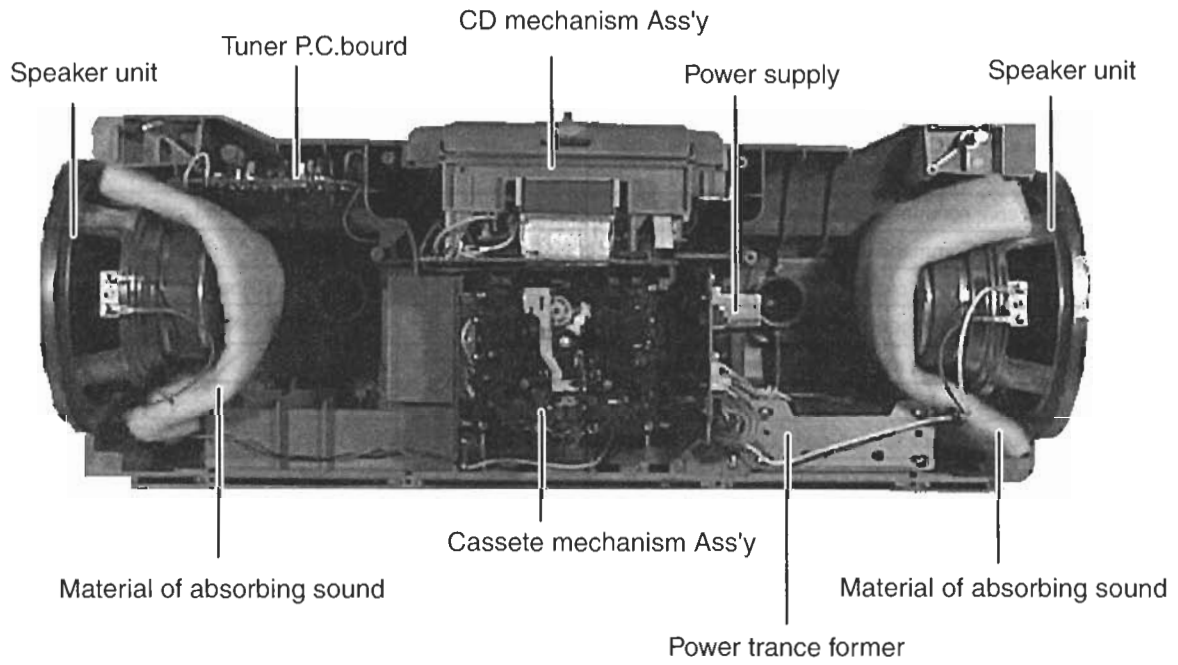
2. Block Diagram

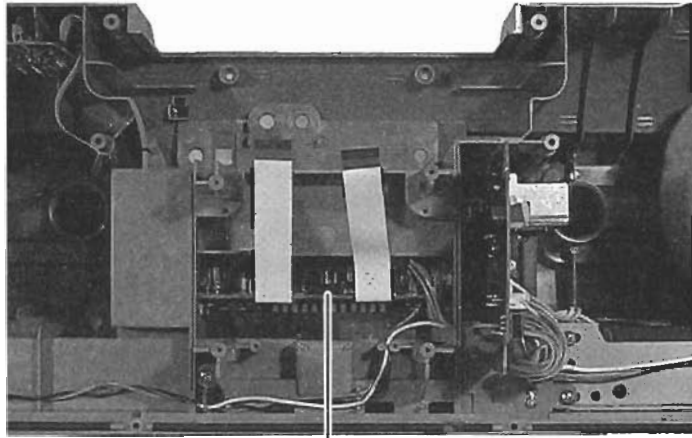


3. Description

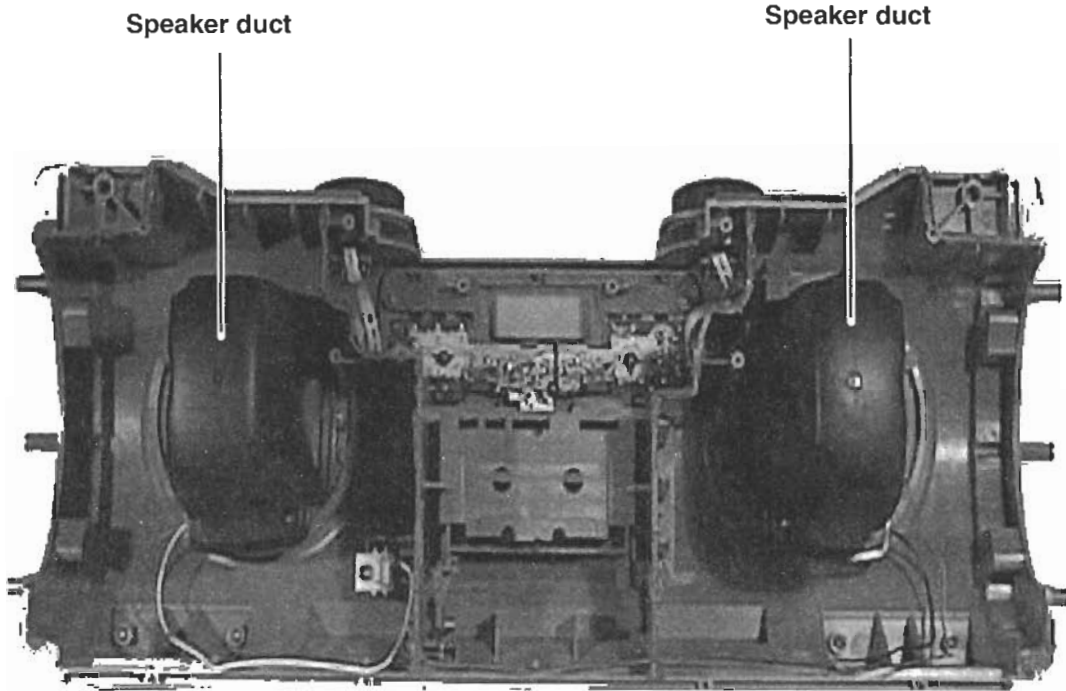
Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output(H:shunt)
2	LRCK	O	Not used	42	PLAY	-	Not used
3	SRDATA	O	Not used	43	WVEL	-	Not used
4	DVDD1	-	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	-	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	μ com command clock signal input (Data is latched at signal's rising point)	47	DSLFL	I/O	Loop filter pin for DSL
8	MDATA	I	μ com command data input	48	PLLFL	I/O	Loop filter pin for PLL
9	MLD	I	μ com command load signal input	49	VCOF	-	Not used
10	SENSE	O	Sence signal output	50	AVDD2	-	Power supply(Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	-	Connected to GND(Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	-	Not used
13	BLKCK	O	sub-code block clock signal output	53	PCK	-	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	-	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	-	Not used
16	DMUTE	-	Connected to GND	56	SBCK	-	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	-	Connected to GND(for X'tal cscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	X1	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	-	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	-	Not used	60	VDD	-	Power supply(for X'tal cscillationcircuit)
21	TRV	O	Traverse enforced output	61	BYTCK	-	Not used
22	TVD	O	Traverse drive output	62	CLDCK	-	Not used
23	PC	-	Not used	63	FLAG	-	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	-	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	-	Not used
26	KICK	O	Kick pulse output	66	CLVS	-	Not used
27	TRD	O	Tracking drive output	67	CRC	-	Not used
28	FOD	O	Focus drive output	68	DEMPH	-	Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	-	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	-	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	-	pull up
32	FE	I	Focus error signal input(Analog input)	72	AVDD1	-	Power supply(Digital)
33	TE	I	Tracking error signal input(Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input(Analog input)	74	AVSS1	-	Connected to GND
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input(H:off track)	76	RSEL	-	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	-	Connected to GND
38	RFDET	I	RF detect signal input(L:detect)	78	PSEL	-	Connected to GND
39	BDO	I	BDO input pin(L:detect)	79	MSEL	-	Connected to GND
40	LDON	O	Laser ON signal output(H:on)	80	SSEL	-	Pull up

Main parts Layout





Power amp P.C.Board



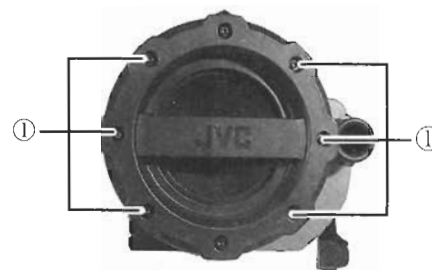
Speaker duct

Speaker duct

Main Parts removal

■ Side panel (both side) removal (Refer to photograph 3-1)

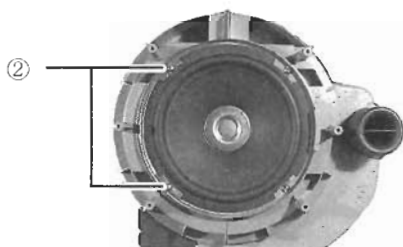
1. Remove the 6 screws ① holding the side panel.



photograph 3-1

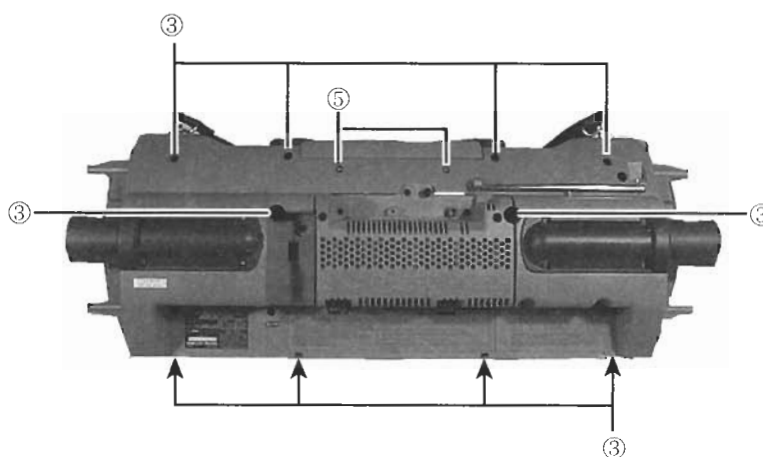
■ Front panel removal (Refer to photograph 3-1)

1. Remove the side panel of both side.
2. Remove the 2 screws ② holding the Woofer speaker of both side. (Refer to photograph 3-2)
3. Remove the 10 screws ③ holding the rear side panel. (up side 4 screws, center 2 screws, down side 4 screws) (Refer to photograph 3-3)



Front side ←

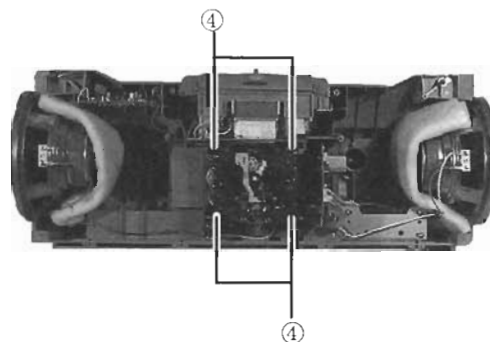
photograph 3-2



photograph 3-3

■ Cassette mechanism removal (Refer to photograph 3-4)

1. Remove the side panel of both side.
2. Remove the front panel.
3. Remove the 4 screws ④ of rear side holding the cassette mechanism ass'y. (Refer to photograph 3-4)
4. Disconnect the flat wire from the display and control P.C. Boards.
5. Remove the cassette mechanism ass'y.



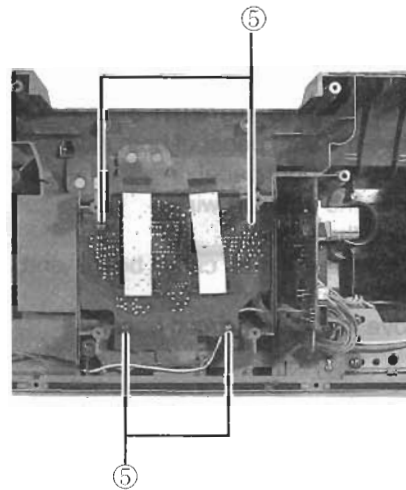
photograph 3-4

■ CD mechanism ass'y removal (Refer to photograph 3-3,3-4)

1. Remove the side panel of both side.
2. Remove the front panel.
3. Remove the cassette mechanism ass'y.
4. Remove the 2 screws ⑤ of rear side holding the CD mechanism ass'y. (Refer to photograph 3-3)
5. Disconnect the CN403, CN407 and CN408.
6. Remove the cassette mechanism ass'y.

■ **Equalizer amp P.C.B removal**
(Refer to photograph 3-5)

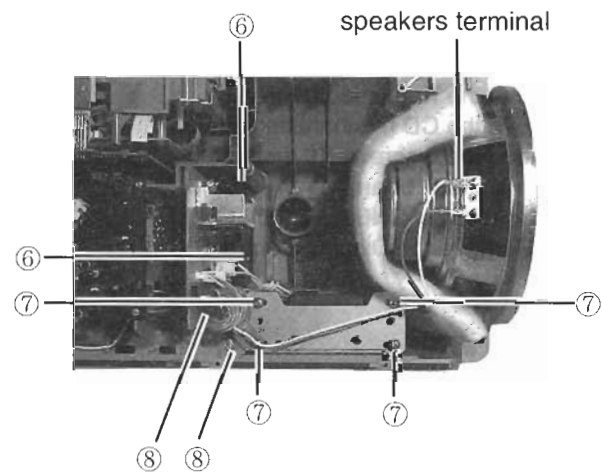
1. Remove the side panel of both side.
2. Remove the front panel.
3. Remove the cassette mechanism assy.
4. Remove the CN407 and CN408 from the CD mechanism assy
5. Remove the 4 screws ⑤ holding the equraizer amp P.C.B.(Refer to photograph 3-5)
6. Draws out the equalizer amp P.C.B.



photograph 3-5

■ **Power suply P.C.B removal**
(Refer to photograph 3-6)

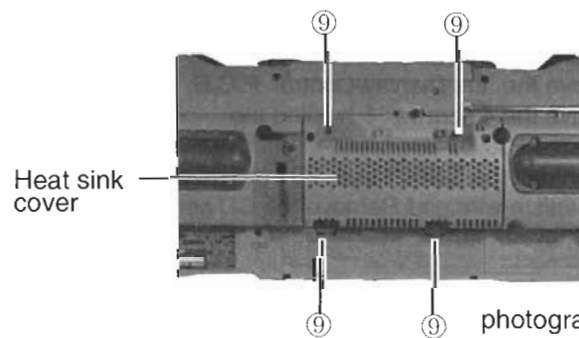
1. Remove the side panel of both side.
2. Remove the front panel.
3. Remove the cassette mechanism ass'y.
4. Remove the CN191,CN193 and CN194, CN195 from the power suply P.C.B.
5. Remove the 2 screws ⑥ holding the AC plug indetsoket.



photograph 3-6

■ **Power transformer removal**
(Refer to photograph 3-6)

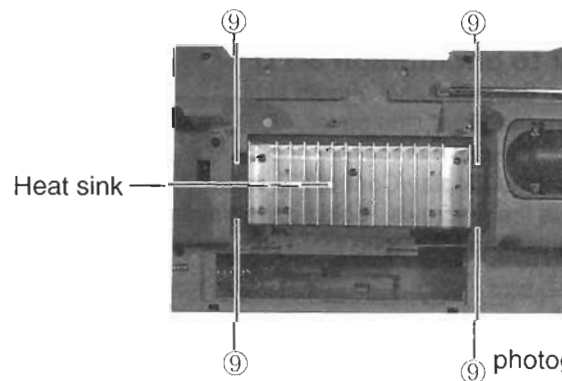
1. Remove the side panel of both side.
2. Remove the front panel.
3. Remove the CN194 and CN195 from the power suply P.C.B.
4. Remove the speakers terminal from the speaker.
5. Remove the 2 screws ⑦ holding the transformer bracket.



photograph 3-7-a

■ **Power amp P.C.B removal**
(Refer to photograph 3-6,3-7-a/-b)

1. Remove the side panel of both side.
2. Remove the front panel.
3. Remove the cassette mechanism assy.
4. Remove the equraizer amp P.C.B.
5. Remove the power suply P.C.B.
(Remove the speakers terminal both side.)
6. Remove the power transformer .
7. Remove the 2 screws ⑧ holding the holder, and remove it.
8. Remove 4 screws ⑨ holding the heat sink cover.
9. Remove the 4 screws ⑨ holding the heat sink from the rear side.
10. Remove the power amp P.C.B with the heat sink.

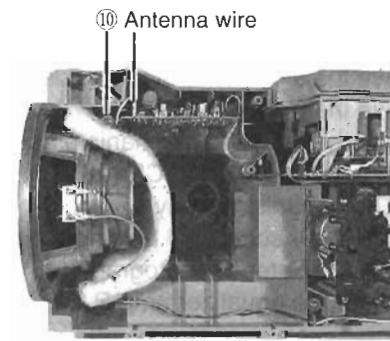


photograph 3-7-b

■ **Tuner P.C.B removal**

(Refer to photograph 3-8)

1. Remove the side panel of both side.
2. Remove the front panel.
3. Remove the antenna wire.
4. Remove the screw ⑩.
5. Draws out the Tuner circuit board ,and disconnect the CN1.
6. Remove the Tuner circuit board.

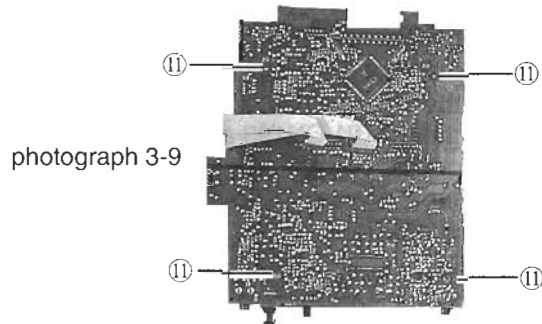


photograph 3-8

■ **Display/Control P.C.B removal**

(Refer to photograph 3-8)

1. Remove the side panel of both side.
2. Remove the Front side panel.
3. Remove the CD mechanism assembly.
4. Remove the 4 screws ⑪ holding the Display/Control circuit board.
5. Disconnect the CN603,CN604,CN605,CN751, and Remove the Display/Control P.C.B.



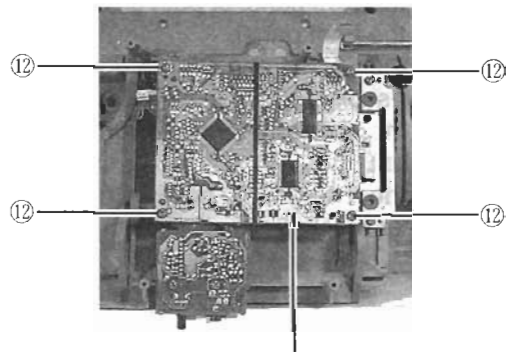
photograph 3-9

Display/Control P.C.B

■ **CD Servo P.C.B removal**

(Refer to photograph 3-10)

1. Remove the side panel of both side.
2. Remove the Front side panel.
3. Remove the CD mechanism assembly.
4. Remove the the Display/Control P.C.B.
5. Remove the 4 screws ⑫ holding the CD servo P.C.B.
6. Disconnect the CN601 and P01 of Traverse mechanism wire,and Remove the CD servo P.C.B.



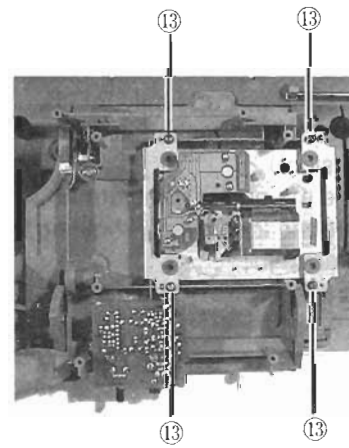
photograph 3-10

CD Servo P.C.B

■ **CD Traverse mechanism removal**

(Refer to photograph 3-11)

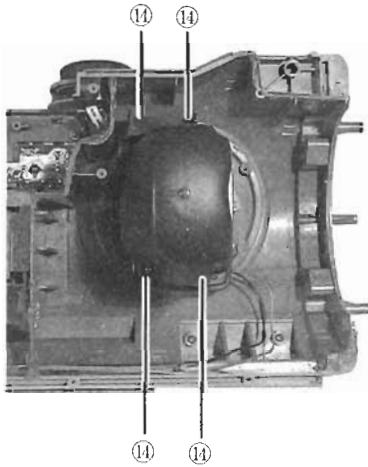
1. Remove the side panel of both side.
2. Remove the Front side panel.
3. Remove the CD mechanism assembly.
4. Remove the Display/Control/CD servo P.C.B.
5. Remove the 4 screws holding the traverse mechanism,and Remove it.



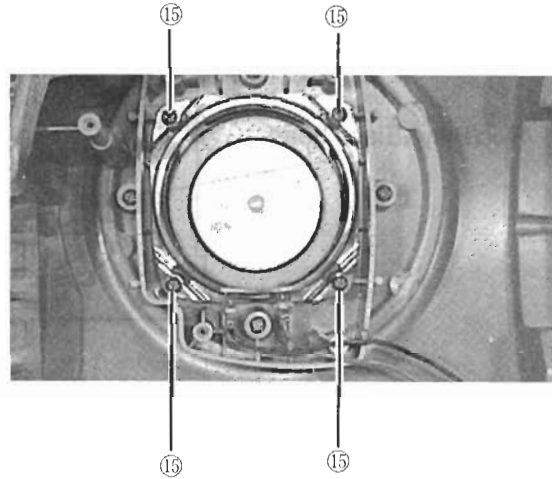
photograph 3-11

Front Speaker removal
(Refer to photograph 3-12,13)

1. Remove the side panel of both side.
2. Remove the front side panel.
3. Remove the 4 screws ⑭ holding the Speakers cover.
4. Remove the 4 screws ⑮ holding the Front speaker.
5. Disconnect the Fasten from speakers terminal, and Remove the Front speaker.



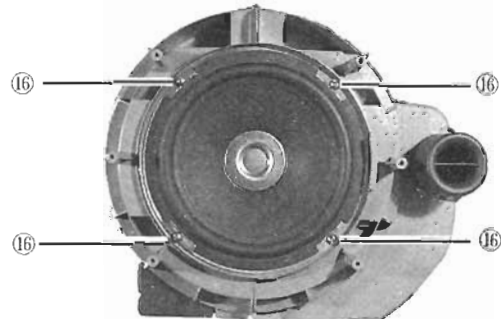
photograph 3-12



photograph 3-13

Sub woofer removal
(Refer to photograph 3-14)

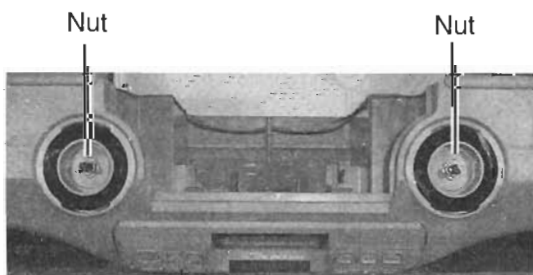
1. Remove the side panel of both side.
2. Remove the 4 screws ⑯ holding the side speaker.
3. Disconnect the Fasten from the speakers terminal, and Remove the Sub woofer speaker.



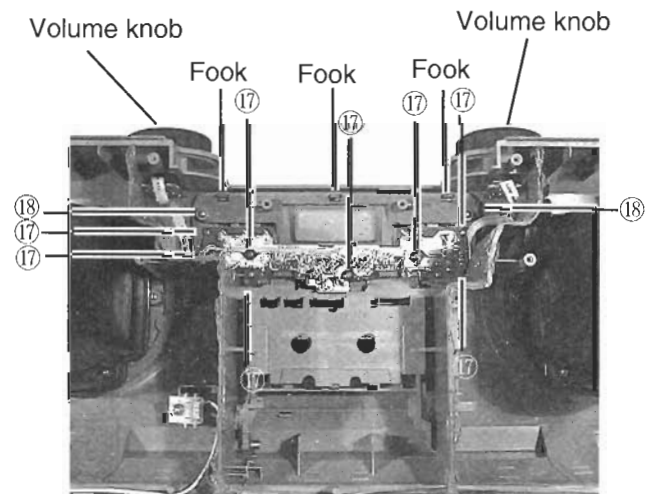
photograph 3-14

Key panel ass'y removal
(Refer to photograph 3-15,16)

1. Remove the side panel of both side.
2. Pull out the Volume knob, and Remove the Nut.
3. Remove the 8 screws ⑰ holding the Key P.C.board, and Remove the 2 screws ⑱ holding the Key panel.
4. Remove the 5 Fook holding the key panel (2 Fook is down side of P.C.board), and Remove the Key panel ass'y.

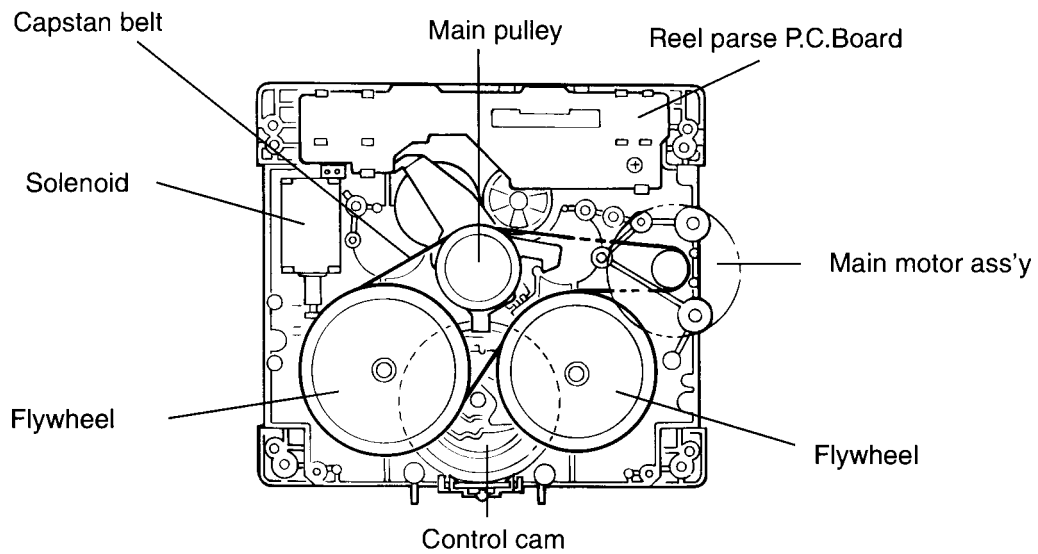
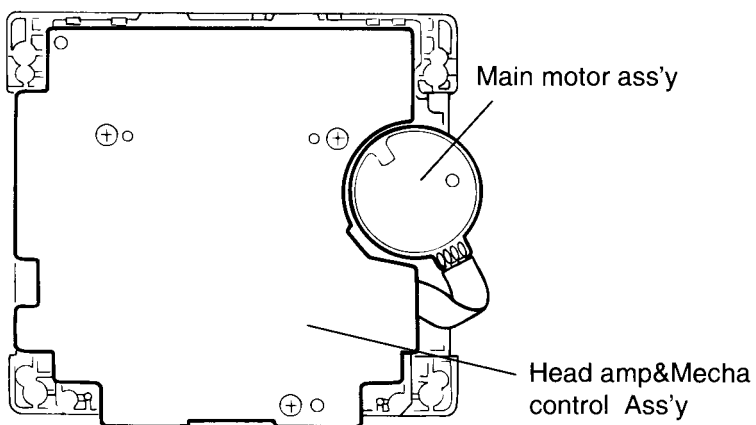
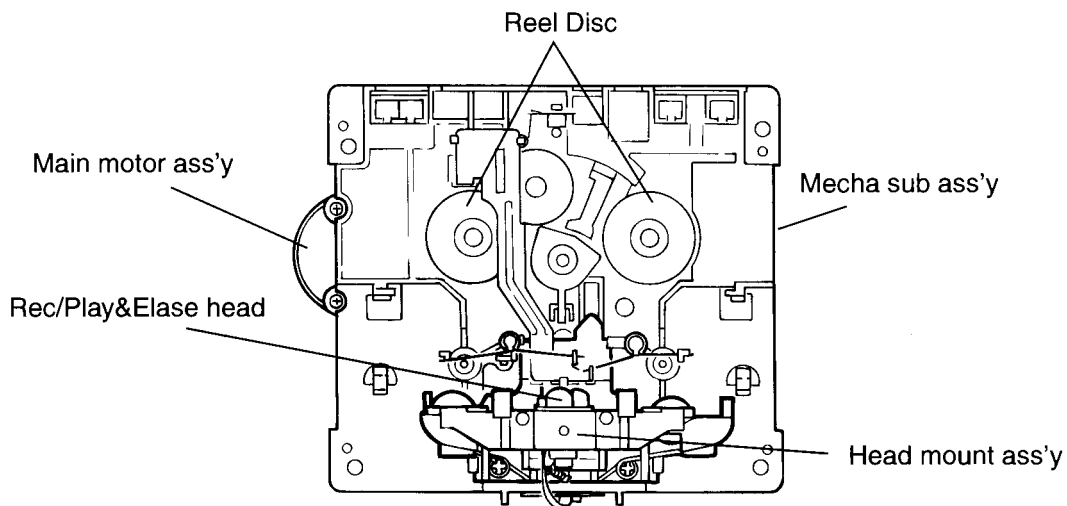


Key panel photograph 3-15



photograph 3-16

[Cassette mechanism of parts]



Headamp & Control P.C.Boards Removal (See Fig.4)

- 1.Remove the cassette mechanism Ass'y.
- 2.After turning over the cassette mechanism assembly, remove the 3 screws (A) retaining the head amp. & mechanism control P.C.Board.
- 3.Disconnect the CN32 on the P.C. Board and the connector CN1 on the reel P.C.Board. and Remove the Head amp & Control P.C.Boards.
- 4.When necessary remove the 4 pin parallel wire soldered to the main motor.

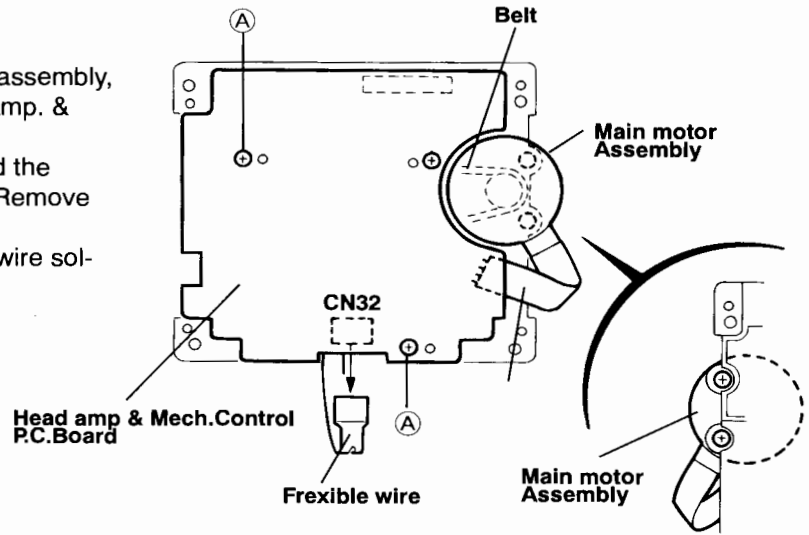


Fig.4

Main motor Removal (See Fig.4.Fig.5Fig6.Fig.7)

- 1.Remove the 2 screws (B) retaining the main motor assembly.(See Fig.4.Fig.5)
- 2.While raising the main motor,remove the main motor belt from the motor pulley.(See Fig.5)

Caution: Be sure to handle the capstan belt so carefully that that this belt will not be stained by grease and other foreign matter.Moreover, these belts should be hanged while referring to the capstan belt hanging method in Fig.6.Fig.7.

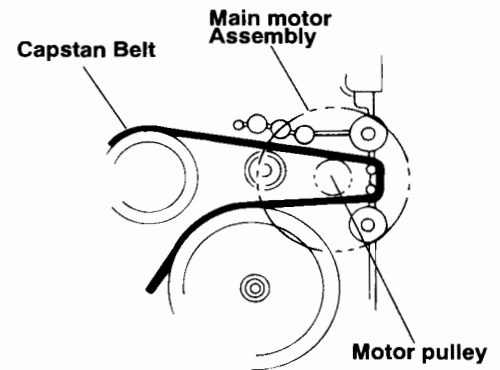


Fig.5

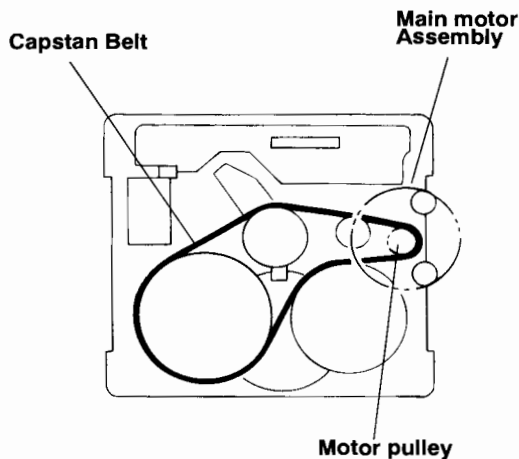


Fig.6

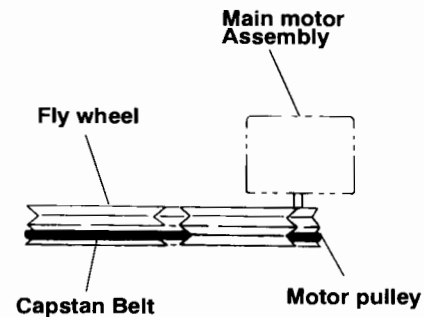


Fig.7

■ Flywheel Removal

(See Fig.8)

- 1.Remove the the head amp. & mechanism control P.C.Board.
- 2.Remove the capstan motor Assembly.
- 3.After turning over the cassette mechanism,remove the slit washers (a) and (b) fixing the capstan shafts R and L,and pull out the flywheels R and L repectively from behind the cassette mechanism.

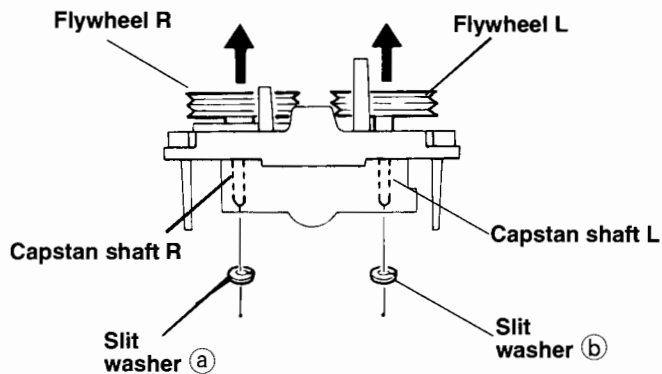


Fig.8

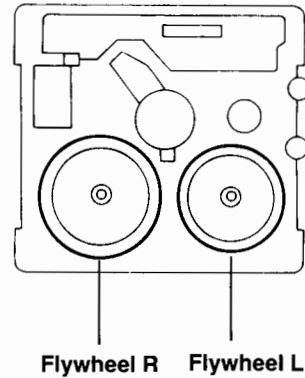


Fig.9

■ Reel Pulse and Solenoid P.C.Board Removal

(See Fig.10)

- 1.Remove the 5 Pawls (c ,d ,e ,f and g) ewtaining the reel pulse P.C.board.
- 2.From the surface of the reel pulse P.C. board parts, remove the 2 pawls (h) and (i) retaining the solenoid.

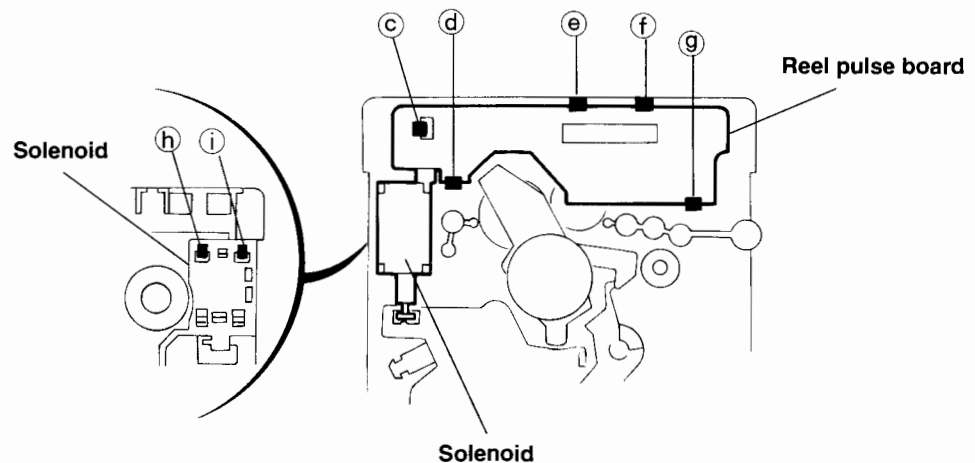


Fig.10

■ Playback, Recording and Eraser Heads Removal (See Fig.11)

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.11)
2. When the flywheel R is rotated in counterclockwise direction from the position in Fig.12 to that in Fig.13.
3. At this position, disconnect the flexible P.C. board (outgoing from the playback head) from the connector CN 301 on the head amp. & 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 ① from behind the playback head.
7. Loosen the reversing azimuth screw retaining the playback head.
8. Take out the playback head from the front of the head mount.
9. The recording and eraser heads should also be removed similarly according to Steps 1~8.

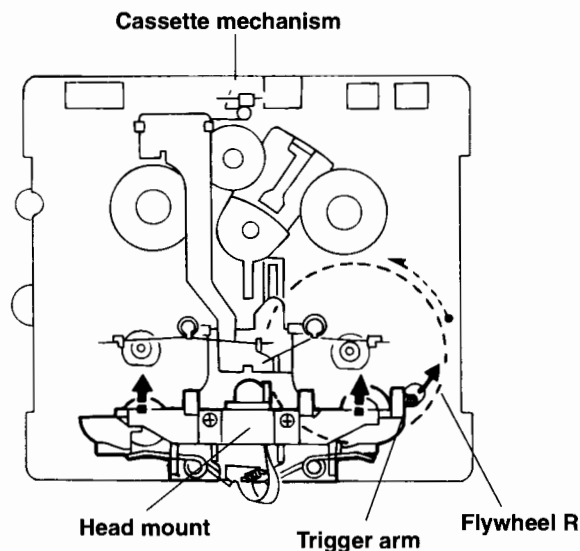


Fig.11

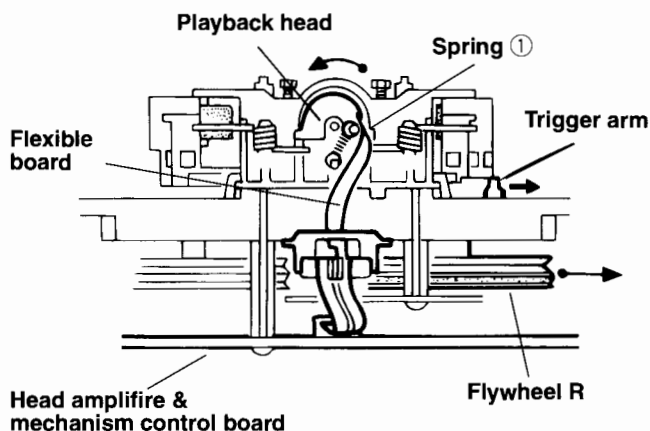


Fig.12

■ Reassembling the Playback,Recording and Eraser Heads(See Fig.13,Fig14)

- 1.Reassemble the eadmount
 - 1)To become direction of the left side, Direction lever of the head mount assembly is maintained by the hand.
 - 2)Reassemble the playback head,from the front of the head mount to the position as shown Fig.13, Fig14,and Fig.15.(J', K',L' and M',N' are set to the hole of K and L and ditches of J,M and N and thru sting out the head mount assembly is built in.
- 2.Fix the reversing szimuth screw.
- 3.Set the spring from behind the playback head.
- 4.Attach the flexible P.C. board to the chassis base, and fix it with the FPC holder as shown in Fig.15.
- 5.The recording and eraser heads should also be reassembled similarly according to Steps1~ 4 above.

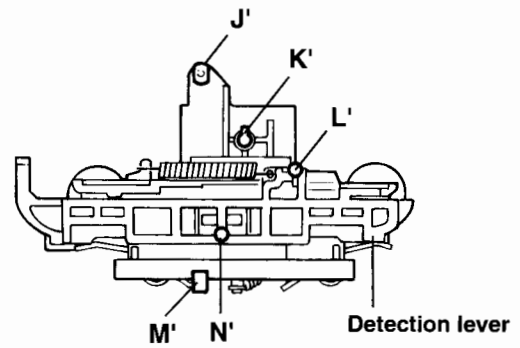


Fig.13 Head mount Assembly

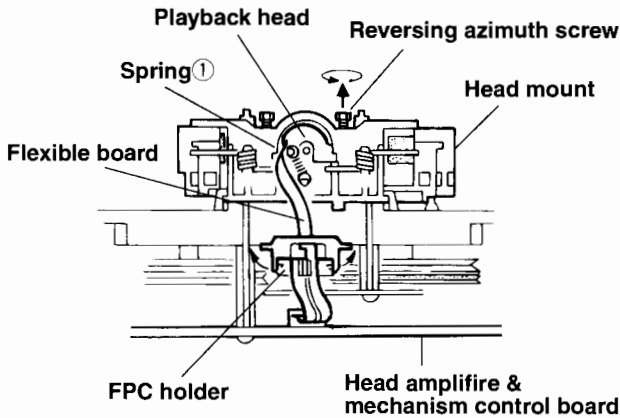


Fig.15

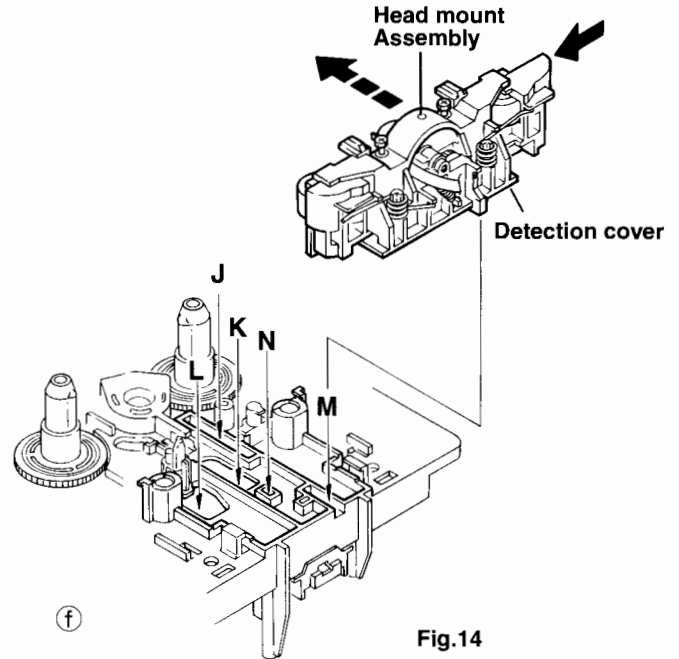


Fig.14

■ Reassembling the Control Cam (See Fig.16,Fig17,Fig.18)

The head assembly is adjusted in the direction of the left side (direction of the forward), and It inserts according to the part of hole "O" of the control cam and "O' " of the mechanism sab assembly.

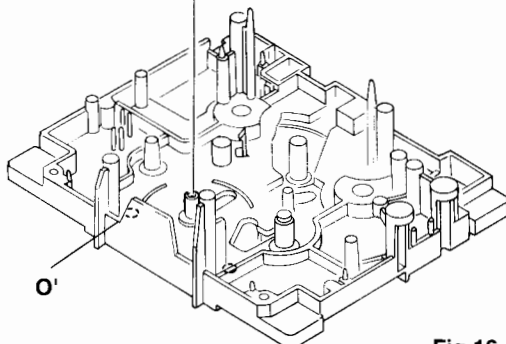
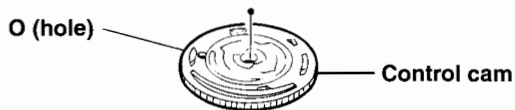


Fig.16

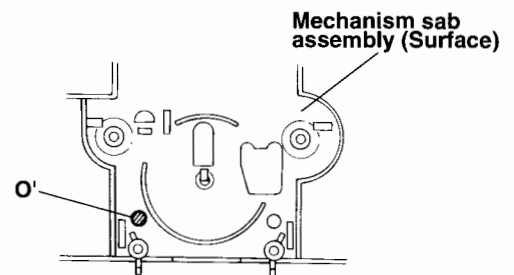


Fig.17

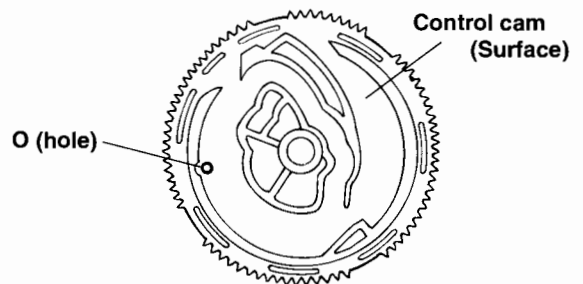


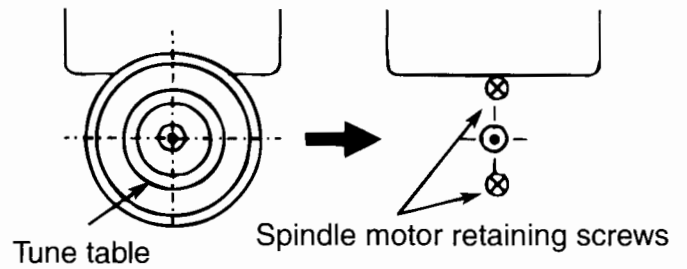
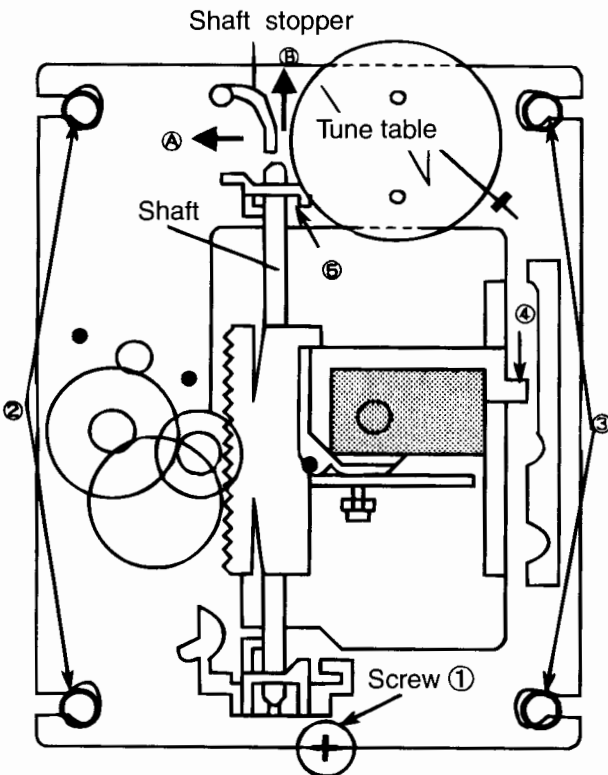
Fig.18

7. Removing the Laser Pickup

- 1) Remove the metal cover, tray assembly and the clamp.
- 2) Remove the screw ① from the Mecha Base assembly.
- 3) Remove the Mecha Base assembly from the rubber cushion ② ③ .
- 4) Move the Shaft stopper from the rest position to the left side .
- 5) Remove the Pickup Shaft from the Mecha Base assembly.(Slide the Pickup shaft to the up side-)
- 6) Remove the CD Pick Unit with the shaft.

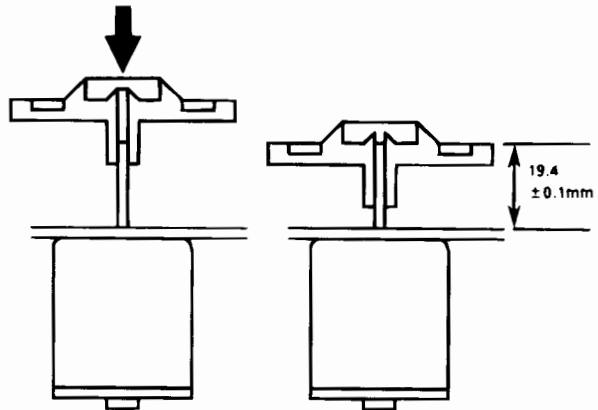
8. Installing the Laser Pickup

- 1) Connect the Flat wire with the connectors of APC (Automatic Power Control) P.C.Board.
- 2) While installing the ④ in the CD Support, set the shaft on the base hook ⑤ .
- 3) Install the Mecha Base assembly to the rubber cushion ② ③ .

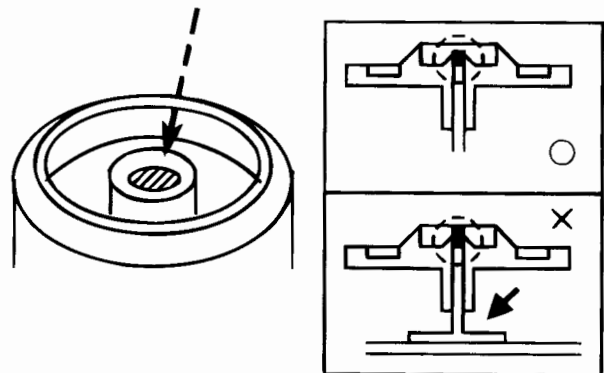


10. Installing the spindle motor

- 1) Tighten the 2 screws to the same torque.
- 2) Fasten the Spindle and the Feed Motor P.C. Board with the screw and solder.
- 3) Install the turntable. When installing, press straight down at the center of the turntable until the distance from the surface of the mechanism base to the top of the turntable is exactly $19.4 \pm 0.1\text{mm}$.



- 4) After insertion is complete, bond the motor shaft and turntable together (at the section marked by an arrow in the figure on the left below).



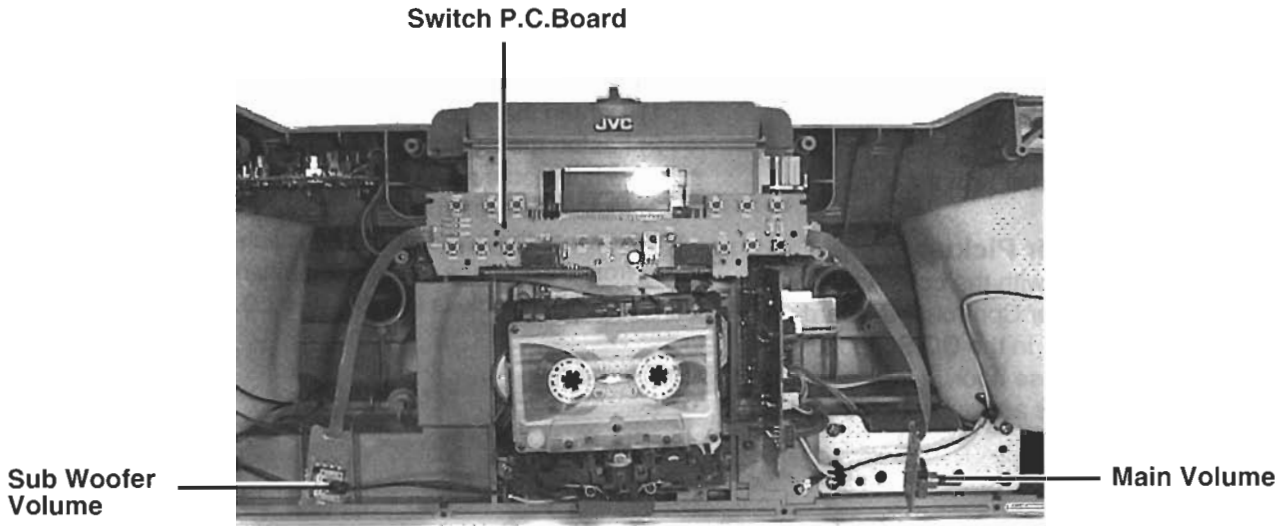
9. Removing the spindle motor

- 1) Remove the Mechanism assembly.
- 2) Remove the turntable, and remove the two screws retaining the spindle motor.
- 3) Remove the screw retaining the spindle and the Feed Motor P.C. Board and unsolder it.

- 5) Use 'LOCTITE' #460 bonding agent, and apply as little as possible. Take care not to allow any excess bonding agent to get onto the turntable. Be extremely careful not to allow bonding agent to adhere to the motor bearings (the section marked by an allow in the figure on the right).

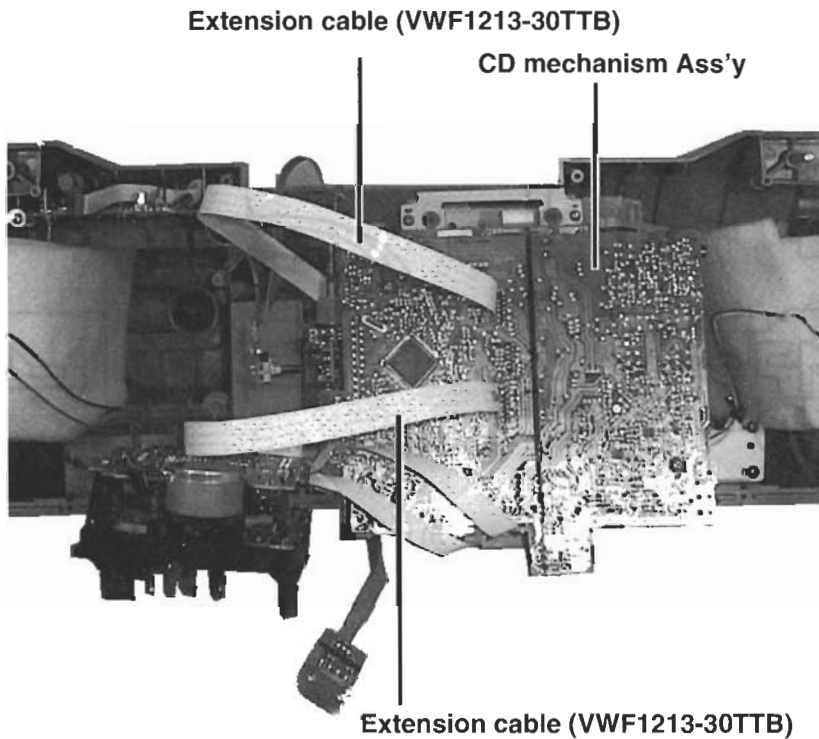
Connection of Adjustment

■ Connection of Cassette Deck and Circuit Board Check



The switch P.C.Board and Two Volumes removed from a front panel, and It's installs in a main P.C.Board.

■ Connection of CD Mechanism ass'y Check



■ **Tape Recorder Section**

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

■ **Reference Values for Confirmation items**

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Wow & flutter		When the test tape VTT712(3kHz) has been played back with the playback mechanism or recording and playback mechanism at the begining of forward winding the frequency counter reading of wow & flutter should be 0.25% or less(WRMS).	0.25% or less (WRMS)	Both the playback and recording & playback mechanism

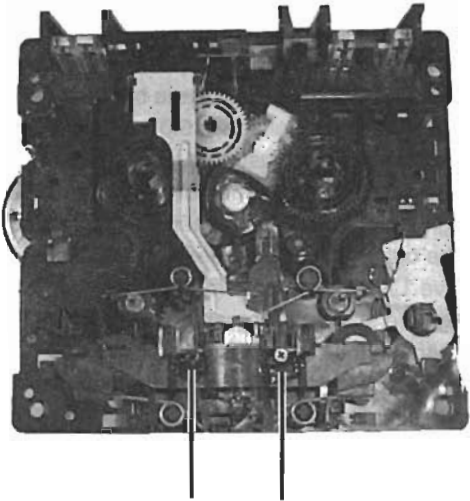
■ Electrical Performance

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Adjustment of recording bias current (Reference value)	*Mode : Forward or reverse mode *Recording mode *Test tape :AC-514 and AC-225 Measurement output terminal :Both recording and headphone terminals	1.With the recording and playback mechanism, load the test tapes(AC-514 to TYP II and AC-225 to TYP I),and set the mechanism to the recording and pausing conditions in advance. 2.After connecting 100Ω in series to the recorder head,measure the bias current with a valve voltmeter at both of the terminals. 3.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 4.0μA (TYP I) and 4.20μA(TYP II).	AC-225 :4.20μA AC-514 :4.0μA	LcH :VR31 RcH :VR32
Adjustment of recording and playback frequency characteristics	Reference frequency :1kHz and 10kHz (REF:-20dB) Test tape :TYP II AC-514 Measurement input terminal :OSC IN	1.With the recording and playback mechanism,load the test tape(AC-514 to TYP II),and set the mechanism to the recording and pausing condition in advance. 2.While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and playback the test tape. 3.While recording and playing back the test tape in TYP II ,adjust VR31 for LcH and VR32 for RcH so that the output deviation between 1kHz and 10kHz becomes -1dB±2dB.	Output deviation between 1kHz and 10kHz : -1dB±2dB	LcH :VR31 RcH :VR32

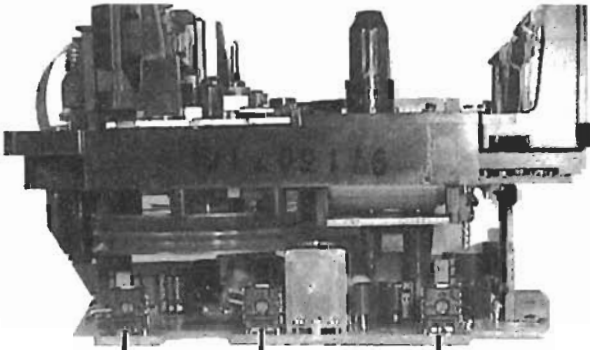
■ Reference Values for Electrical Function Confirmation Items

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Recording bias frequency	*Recording and playback side forward or reverse *Test tape :TYP II AC-514 *Measurement terminal BIAS TP on P.C.board	1.While changing over to and from BIAS 1 and 2, confirm that the frequency is changed. 2.With the recording and playback mechanism. load the test tape (AC-514 to TYP II),and set the mechanism to the recording and pausing conditions in advance. 3.Confirm that the BIAS TP frequency on the P.C.board is 100kHz±6kHz.	100kHz ±6kHz	
Eraser current (Reference value)	*Recording and playback side forward or reverse *Recording mode *Test tape :AC-514 and AC-225 Measurement terminal Both of the eraser head	1.With the recording and playback mechanism, load the test tapes(AC-514 to TYP II and AC-225 to TYP I),and set the machanism to the recording and pausing condition in advance. 2.After setting to the recording conditions,connect 1MΩ in series to the eraser head on the recording and playback mechanism side,and measure the eraser current from both of the eraser terminal.	TYP II :120mA TYP I :75mA	

Adjustment point



Azimuth Adjust screws



VR32

VR31

VR37

Adjustment of Tape speed

■ Electrical Characteristics of Tuner

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Adjustment of AM RF tracking	<ul style="list-style-type: none"> • Band selection to : AM • Input position: Standard loop antenna 	<ol style="list-style-type: none"> 1.Receive 522kHz(preset memory P1)from SSG through the standerd loop antenna. 2.Receive 1.629kHz(preset memory P2)from SSG througth the standerd loop antena.Adjust L4 so that the output at this time becomes maximum output 3.In case the voltage at the test point TP9 exceeds 5.0V,adjust L4 so that the voltage become 5.0V ±0.1V. In case the voltage is 5.0V or less,be sure not to perform any adjustment. 4.Receive 603kHz(preset memory P3)from SSG through the standard loop, antena. Adjust L3 so that the output at this time become maximumum. 5.Receive 1,404kHz (preset memory P4)from SSG through the standerd loop antena. Adjust TC2 so that output at this becomes maximum. 6.Repeat Steps ④ and ⑤ so that the output becomes maximum. 	Maximum output	 L4 L3 TC2

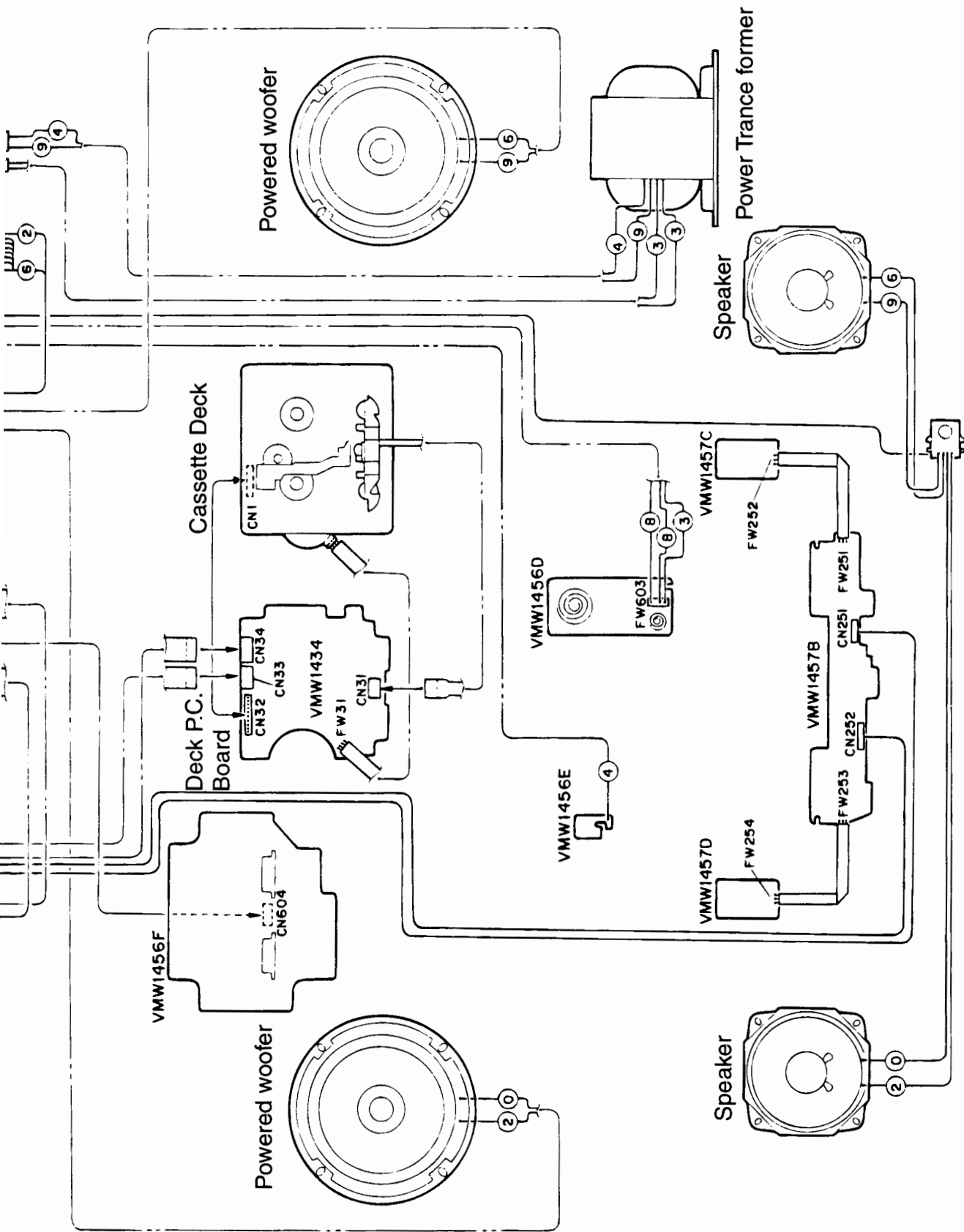
Frequency Range

Frequency Range	Frequency	Area	Frequency Range	Frequency	Area
MW/AM	522 ~ 1629 kHz	B/E/EN/EE	FM	65 ~ 74 MHz	EE
MW/AM	530 ~ 1710 kHz	J/C	LW	144 ~ 288 MHz	B/E/EN
MW/AM	531 ~ 1602 kHz	A/U/UT/UP/US/UB/UX	SW	2.3 ~ 21.85 MHz	A/U/UT/UP/US/UB/UX
FM	87.5 ~ 108 MHz	B/E/EN	SW	5.75~17.95 MHz	A/U/UT/UP/US/UB/UX

The Marks for Designated Areas

- | | | | |
|----------------------------|----------------------|-------------------------|--------------------|
| J the U.S.A | A Australia | C Canada | B the U.K |
| E Continental Europe | EN Scandinavia | EE Eastern Europe | U Universal |
| UT Taiwan | UP Korea | US Singapore | UB Hong Kong |
| UX Saudi Arabia | | | |

Please receive and check the broadcasting station near each frequency when there is no SSG.



E

F

G

H

I

Standard Schematic Diagrams

Front /Control Section

△ ACV

MARK	R9903	C9035	R9911	C9031	10 9-101	(E 3)	(D 8)	(K 9)	(H 8)
RV-B90	2 2	1 50	2 2	10 011					
REV.010	0000	0000	0000	0000					9712/24 613491 7 HANNA

6

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3

2

1

MARK

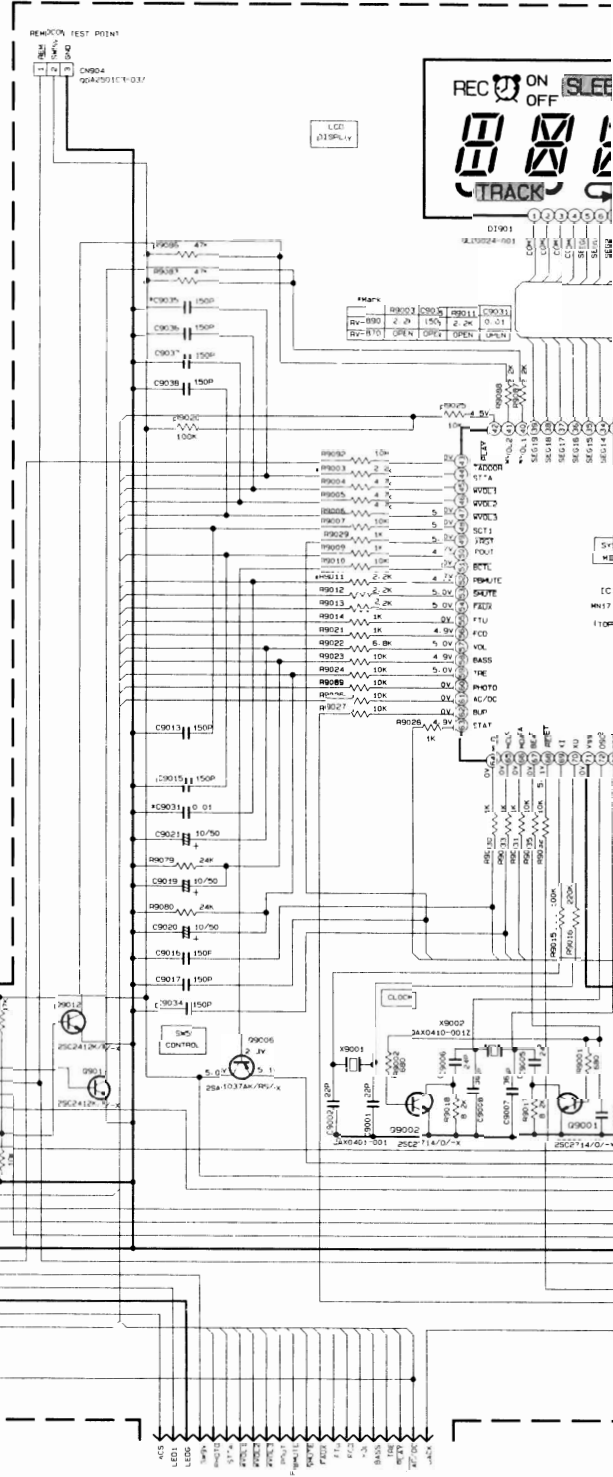
VERSION	R2501	Q2502	Q2501
J	OPEN	OPEN	OPEN
OTHERS	○	○	○

MARK

VERSION	NAME1	NAME2
10-UT/AR/US/AB/AX	NC	NC
	USEV	RE/DC

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR MULTIMETER WITHOUT (NOT) SIGNAL CONDITION OF STOP AT SUPPLY.
 - VOLTS TO SOUND BEAT WITHOUT TAP.
 - ALL RESISTORS SPECIFIED RESISTORS ARE 1%W ±5% CARBON RESISTOR
 - ALL RESISTOR VALUES ARE IN OHM(Ω)
 - ALL CAPACITORS ARE CERAMIC (CAPAC) OR MYLAR CAPACITOR
 - ALL CAPACITANCE VALUES ARE IN PICOPI (P)
 - ALL IMPORTANCE VALUES ARE IN OHM(Ω)
 - ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE / V-RATED VOLTAGE (V)
 - ALL VALUES ARE 1SS204-T2

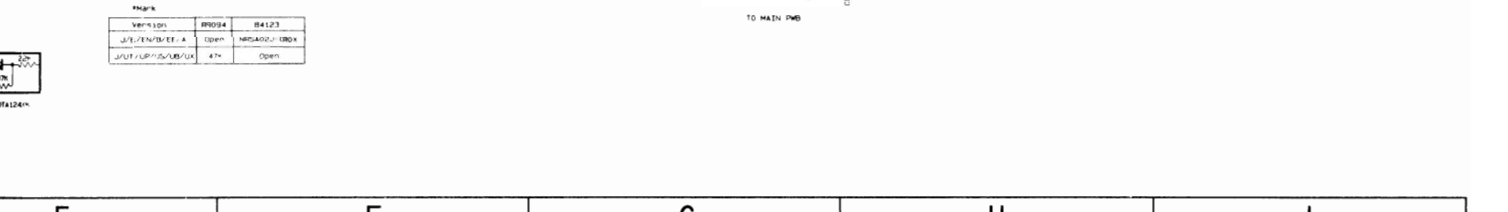
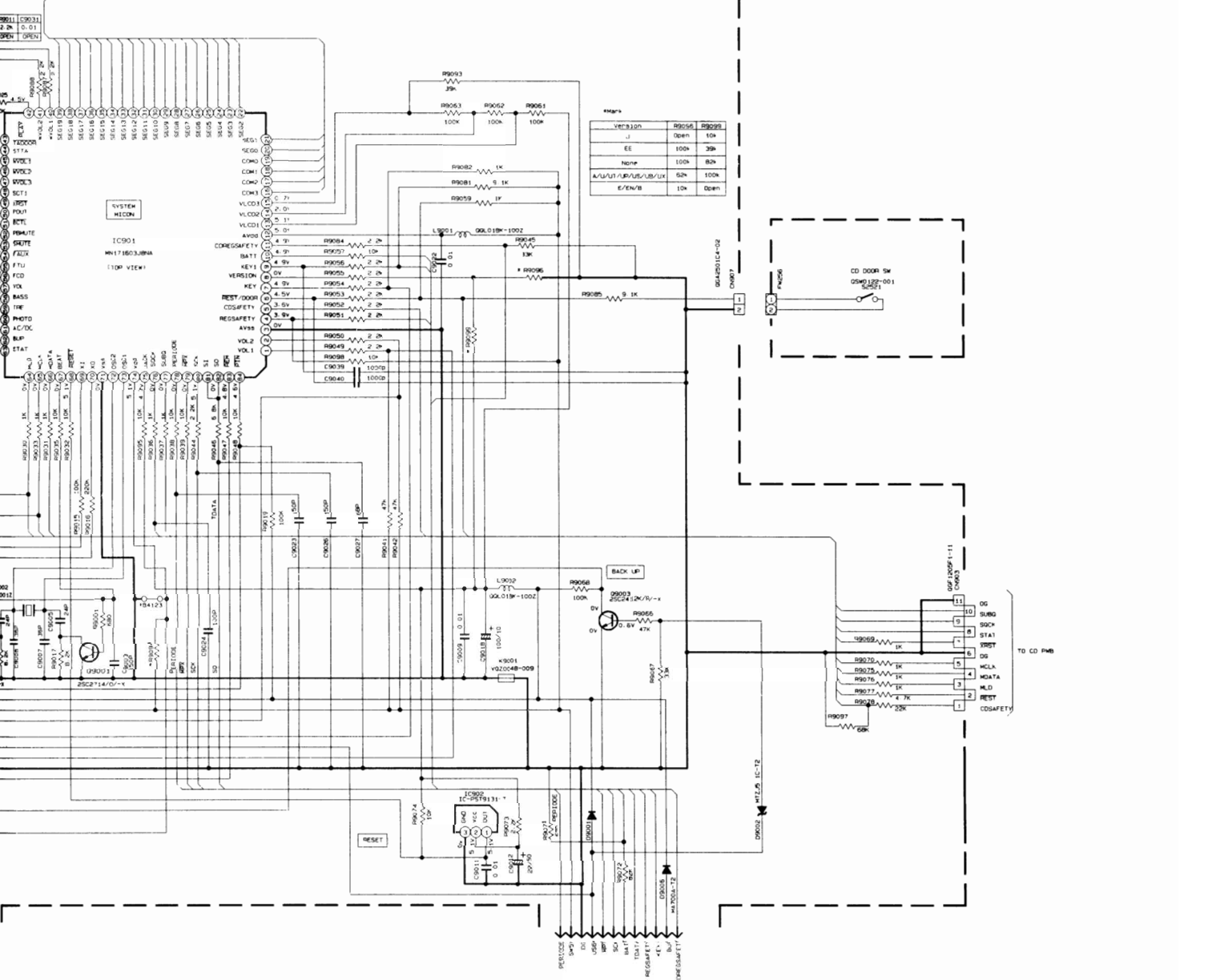
A B C D E



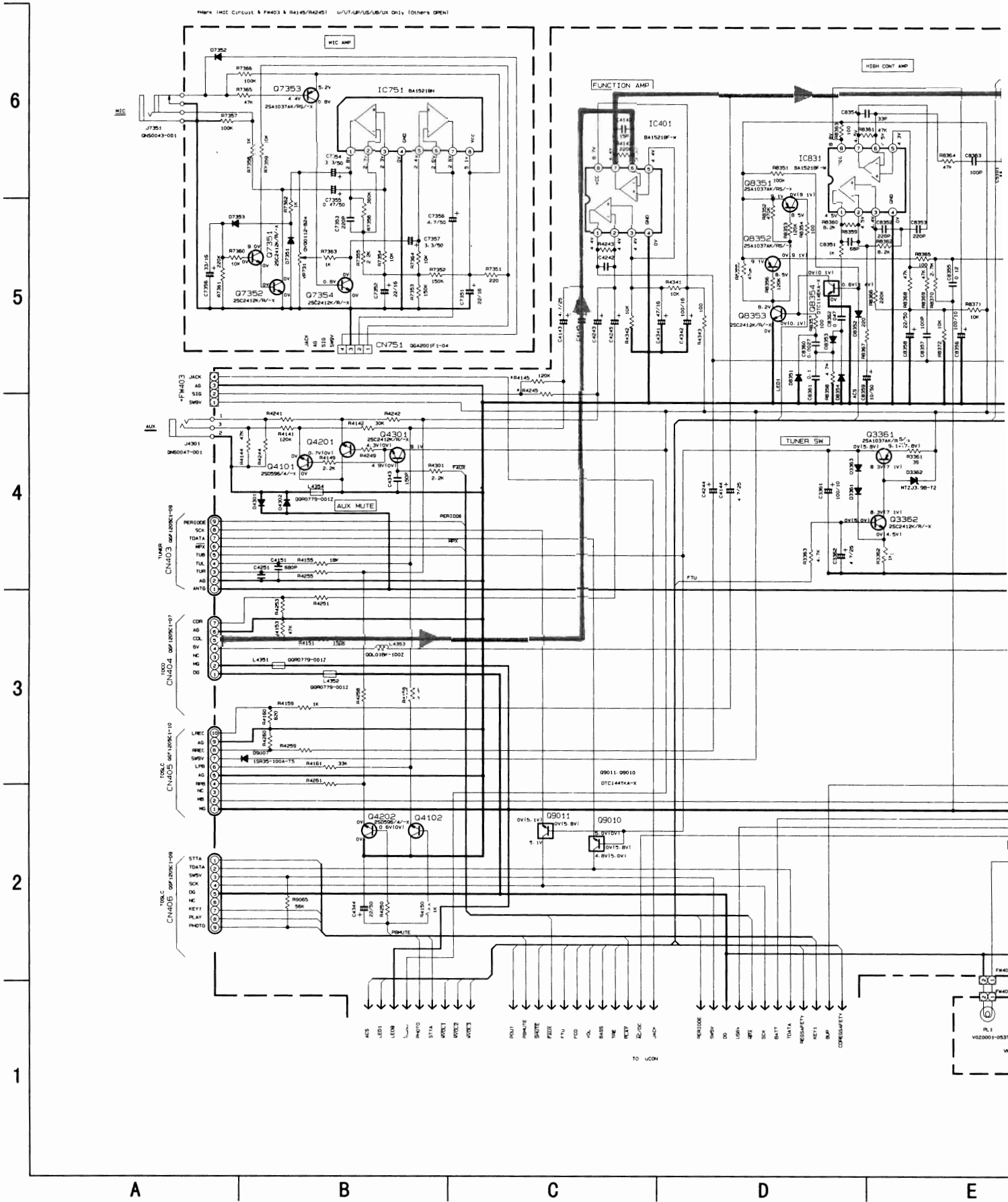
RV-B90GY
RV-B90AG



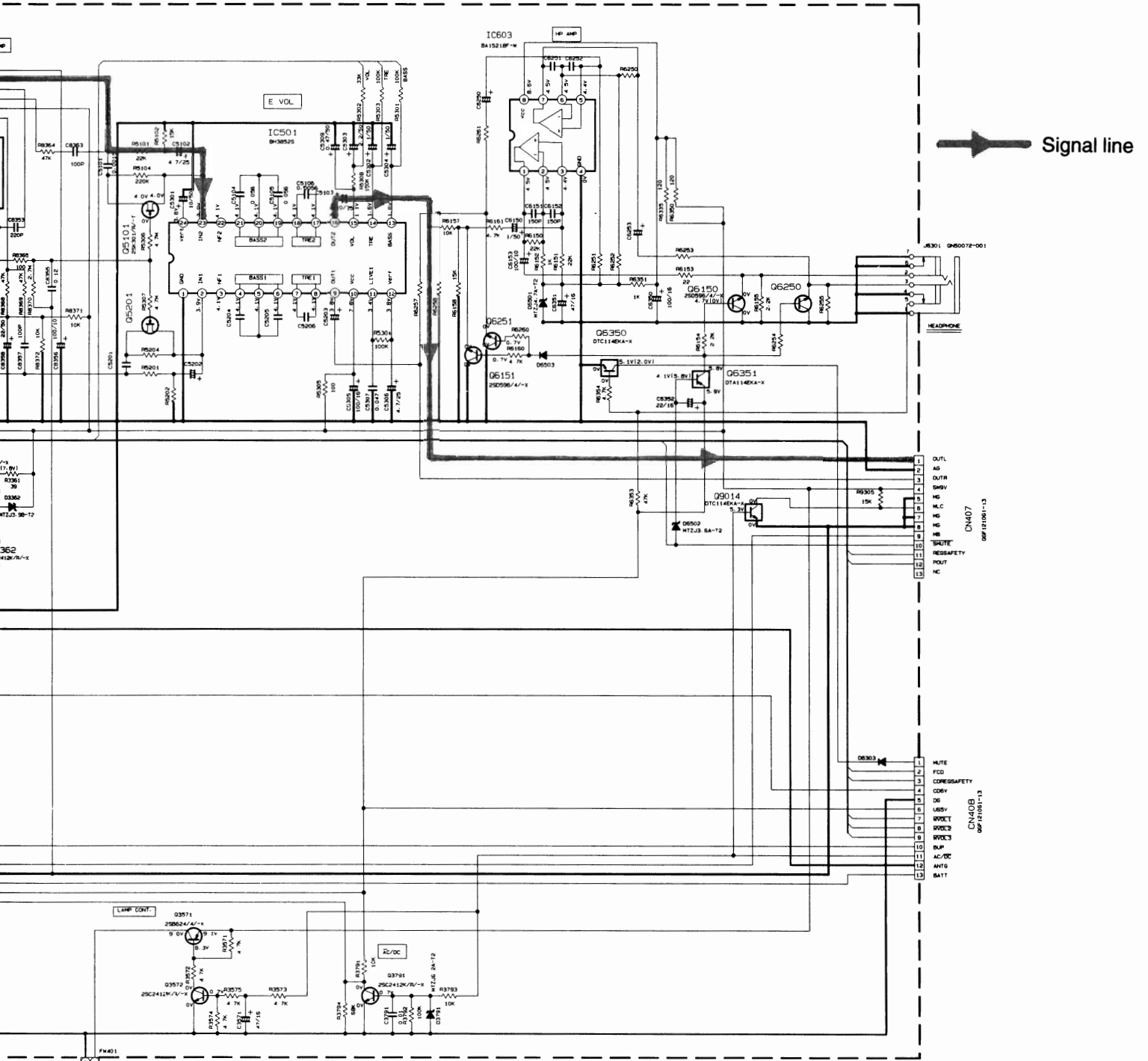
- 01901
- 020024-001
- COM3
- COM2
- COM1
- SEG18
- SEG19
- SEG16
- SEG17
- SEG14
- SEG15
- SEG12
- SEG13
- SEG10
- SEG11
- SEG9
- SEG8
- SEG7
- SEG6
- SEG5
- SEG4
- SEG3
- SEG2
- SEG1



Amp. Section



A B C D E



➔ Signal line

362
4126/R/-X

J8301 DMS0072-001
HEADPHONE

OUTL
AS
OUTR
SWV
MS
MLC
MS
MS
MS
MS
MUTE
REISSAFETY
PUSH
NC

0N407
00P121051-13

0N408
00P121051-13

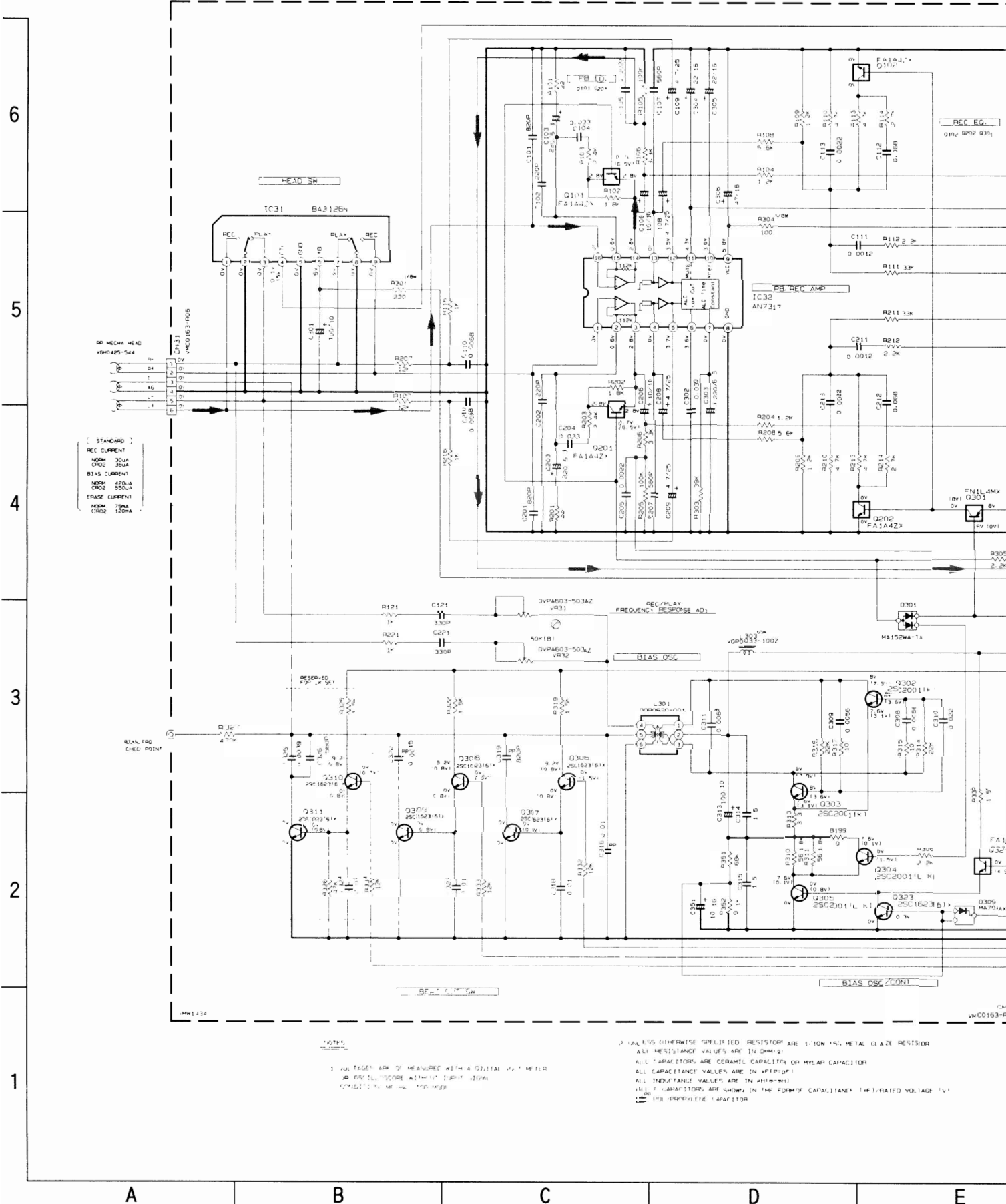
0N409
00P121051-13

- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE VOL191
 2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W 5% CARBON RESISTOR.
- ALL RESISTANCE VALUES ARE IN OHMS (Ω)
 - ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR
 - ALL CAPACITANCE VALUES ARE IN nF (10⁻⁹F)
 - ALL INDUCTANCE VALUES ARE IN μH (10⁻⁶H)
 - ALL E-CODES ARE SHOWN IN THE FORM OF CAPACITANCE (C)/RATED VOLTAGE (V)
 - ALL DIODES ARE 1SS294-TP
 - ALL NON TRANSISTORS ARE 2SC2785/PE-1
- ⊘ UNFLAMMABLE CARBON RESISTOR
 - ⊘ NON-POLARISE ELECTROLYTIC CAPACITOR
 - ⊘ POLYPROPYLENE CAPACITOR
 - ⊘ FUSIBLE RESISTOR

PARTS NAME	DTC114EX	DTA144TK
CONSTRUCTION		

E F G H I

Cassette Deck Section

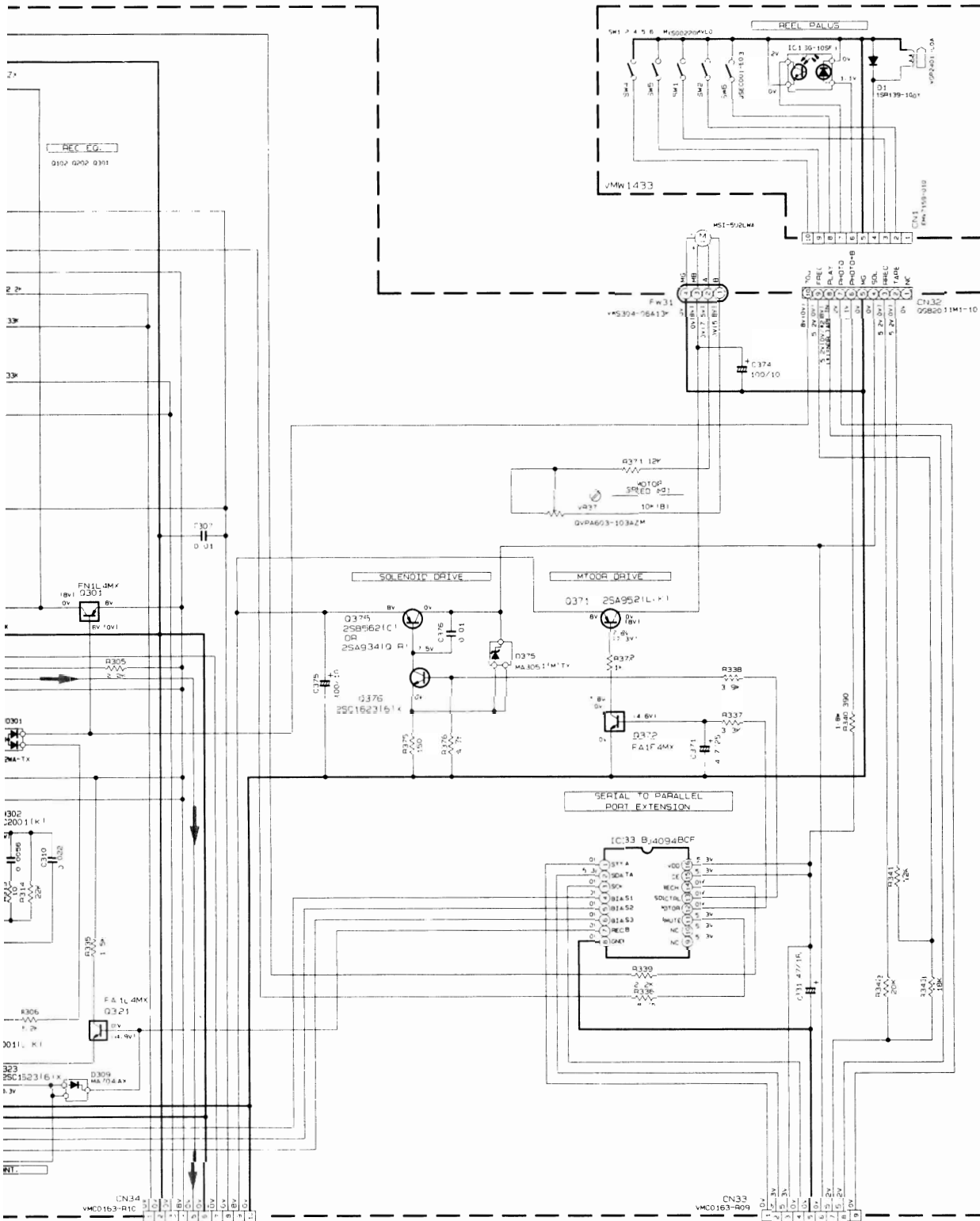


[STANDARD]
 REC CURRENT
 NORM 300A
 CROD 300A
 BIAS CURRENT
 NORM 4200A
 CROD 5500A
 ERASE CURRENT
 NORM 700A
 CROD 1200A

NOTES

1. ALL VOLTAGE AND CURRENT MEASUREMENTS SHOULD BE MADE WITH A DIGITAL MULTIMETER OR EQUIVALENT.
2. ALL RESISTANCE VALUES ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
3. ALL CAPACITANCE VALUES ARE IN PICOFARADS UNLESS OTHERWISE SPECIFIED.
4. ALL INDUCTANCE VALUES ARE IN MILLIHENRYS UNLESS OTHERWISE SPECIFIED.
5. ALL CAPACITORS ARE CERAMIC CAPACITORS OR MYLAR CAPACITORS UNLESS OTHERWISE SPECIFIED.
6. ALL RESISTORS ARE METAL GLAZE RESISTORS UNLESS OTHERWISE SPECIFIED.

RV-B90GY RV-B90AG



RESISTOR
D. VOL. PAGE 1v1

PART	NAME	REF. NO.
	FA142V	01C1 0201 0102 0202
	FN1 4Mx	0301
	FA11 4Mx	0371
	FA11 4Mx	0371

E F G H I

Power Amp. Section

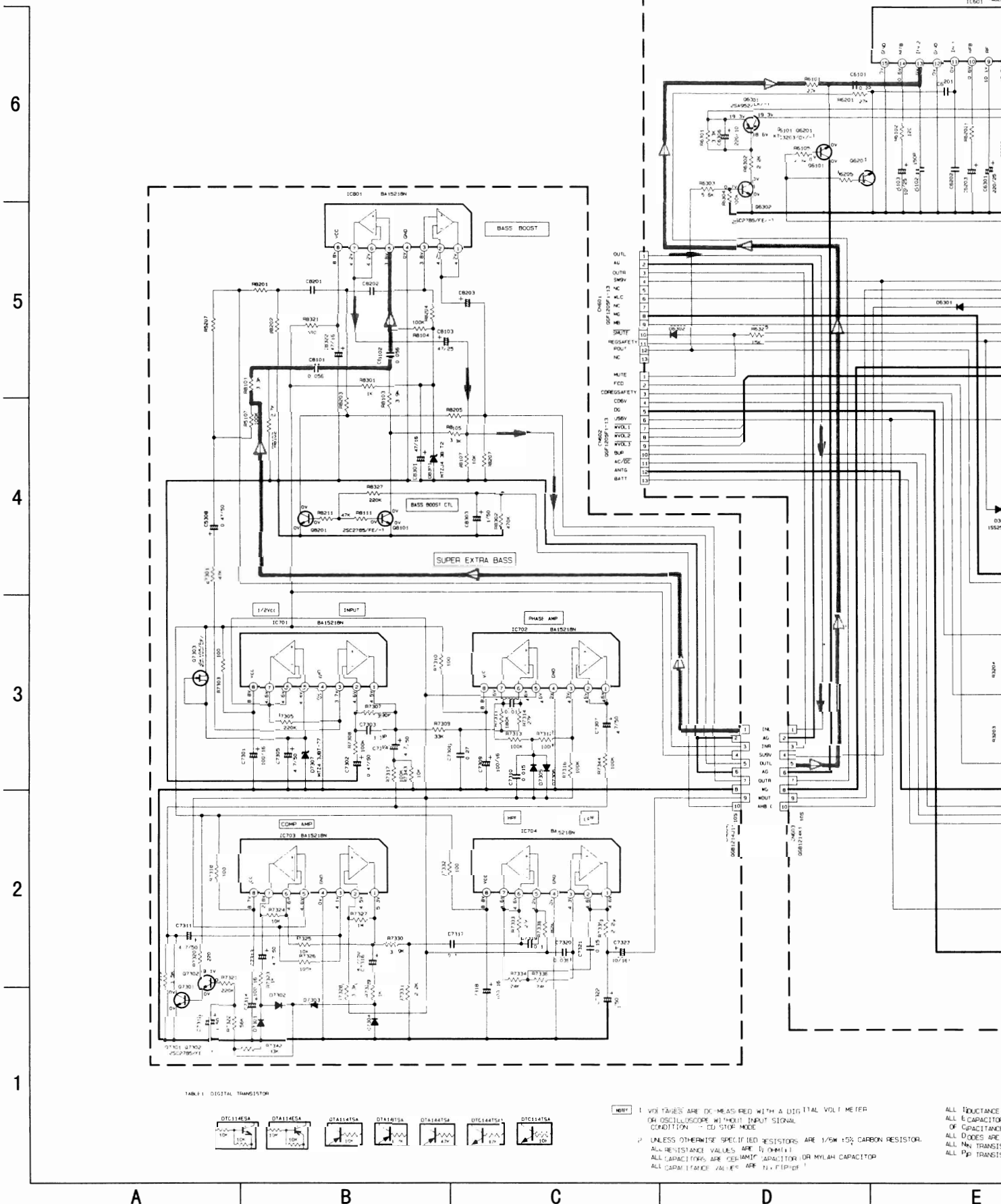


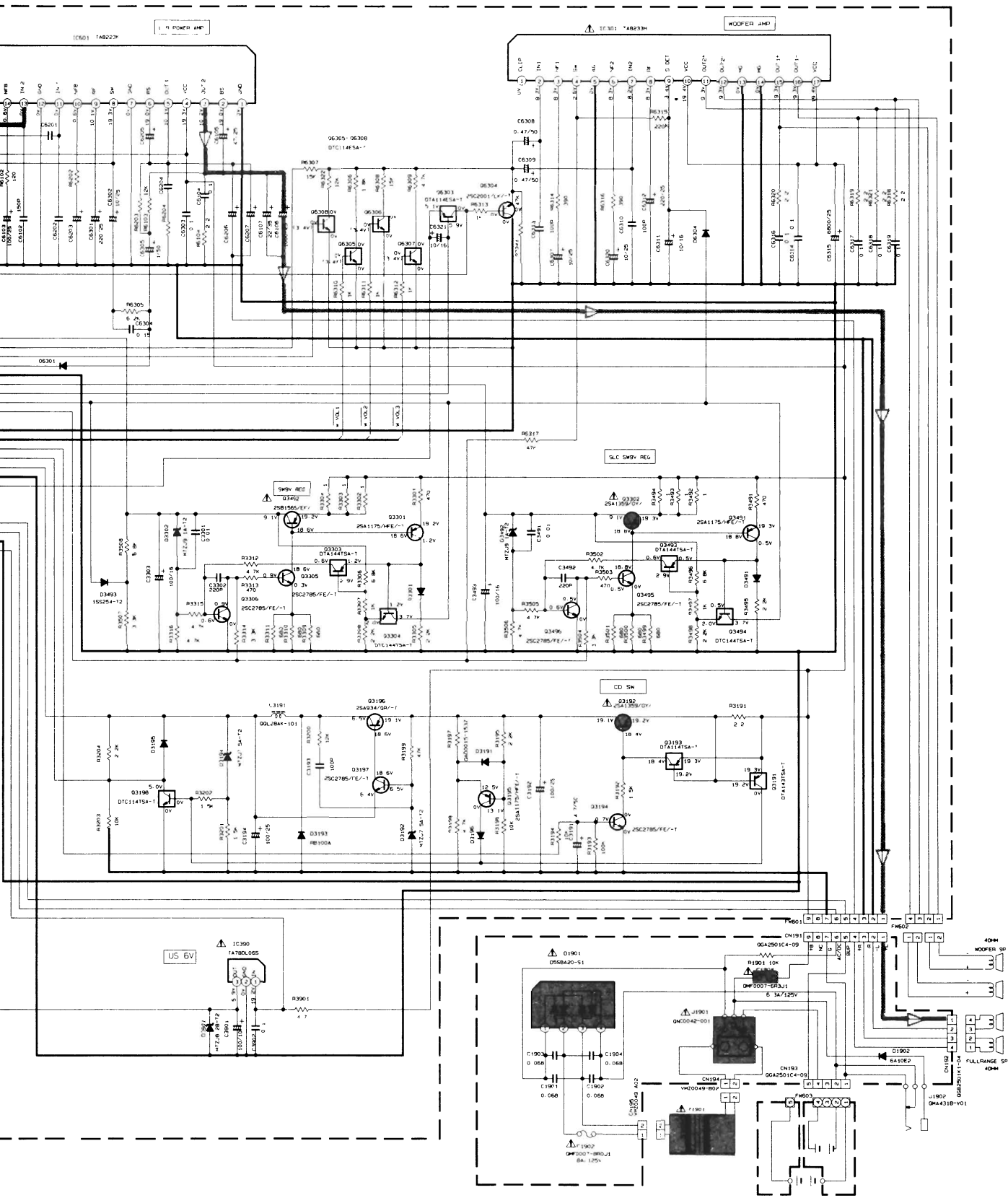
TABLE 1 DIGITAL TRANSMISTOR

DTC114E5A	DTC114E5A	DTC114T5A	DTC114T5A	DTC114T5A	DTC114T5A	DTC114T5A
-----------	-----------	-----------	-----------	-----------	-----------	-----------

NOTE:

- 1. VOLTAGES ARE DC MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITH INPUT SIGNAL CONDITION TO STOP MODE.
- 2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W 5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHMS.
- ALL CAPACITORS ARE POLYMER CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN PICOPIE.

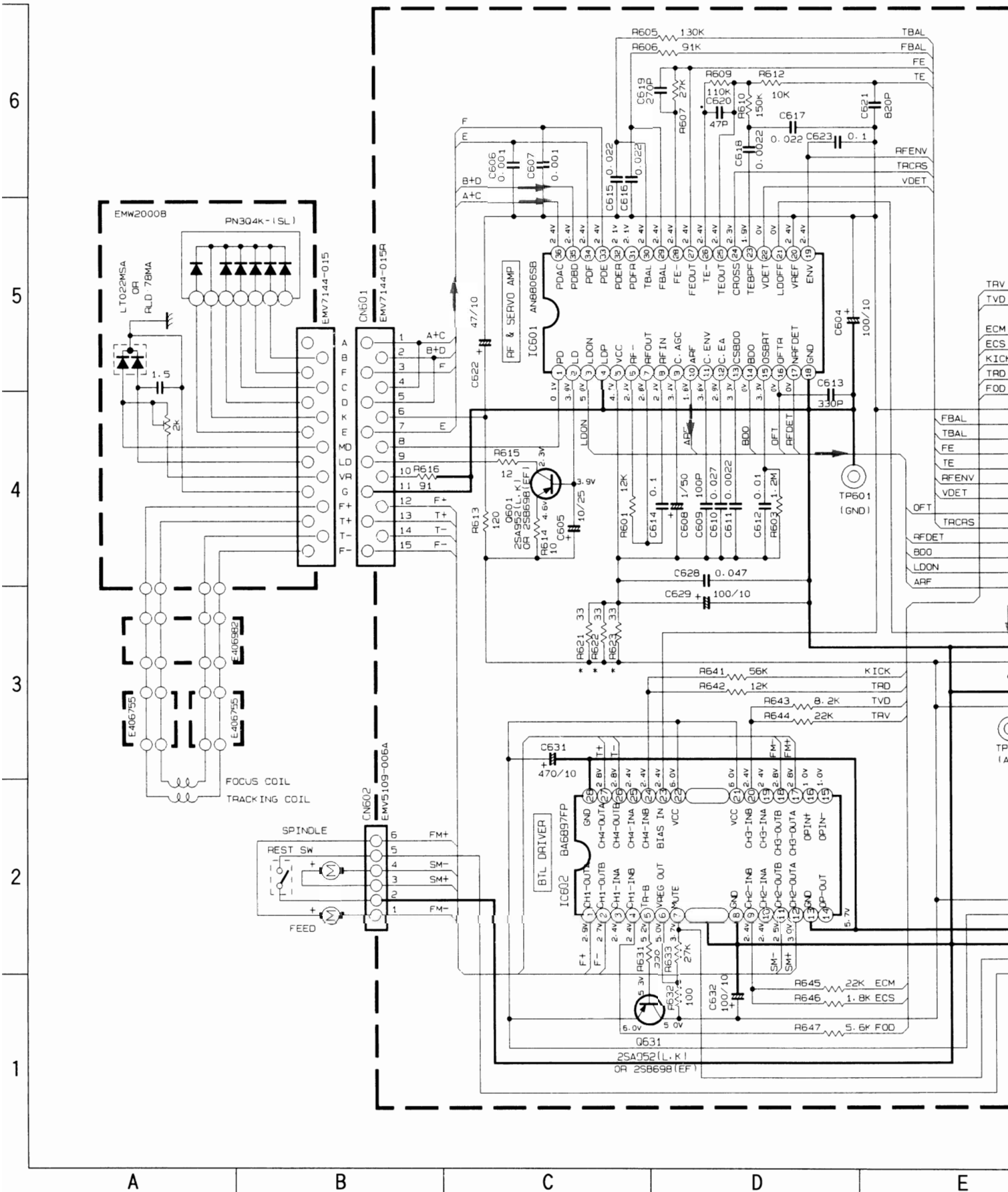
ALL INDUCTANCE VALUES ARE IN MILLIHENRY.
 ALL CAPACITANCE VALUES ARE IN MICROFARAD.
 ALL DIODES ARE 1N4148.
 ALL NPN TRANSISTORS ARE 2N3904.
 ALL PNP TRANSISTORS ARE 2N3906.

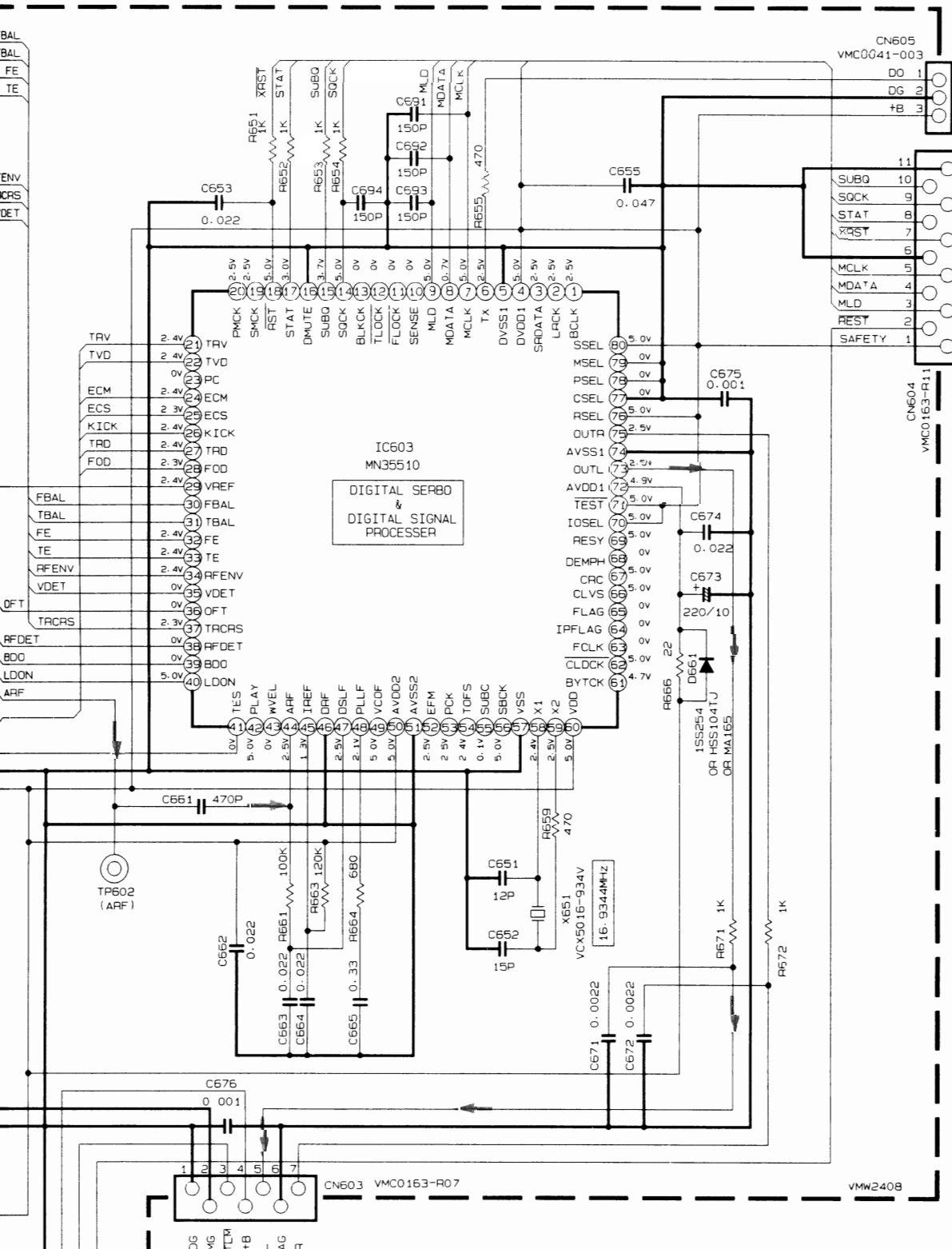


ALL INDUCTANCE VALUES ARE IN μ H (MILLI)
 ALL CAPACITORS ARE SHOWN IN THE FORM
 OF CAPACITANCE (F) (THATED VOL. 120V 1V)
 ALL DIODES ARE 1SS254 (OR M5510A) OR MA16S-1
 ALL NPN TRANSISTORS ARE 2SC2785/FE/-1
 ALL PNP TRANSISTORS ARE 2SA1175/HFE/-1

E F G H I

CD Section





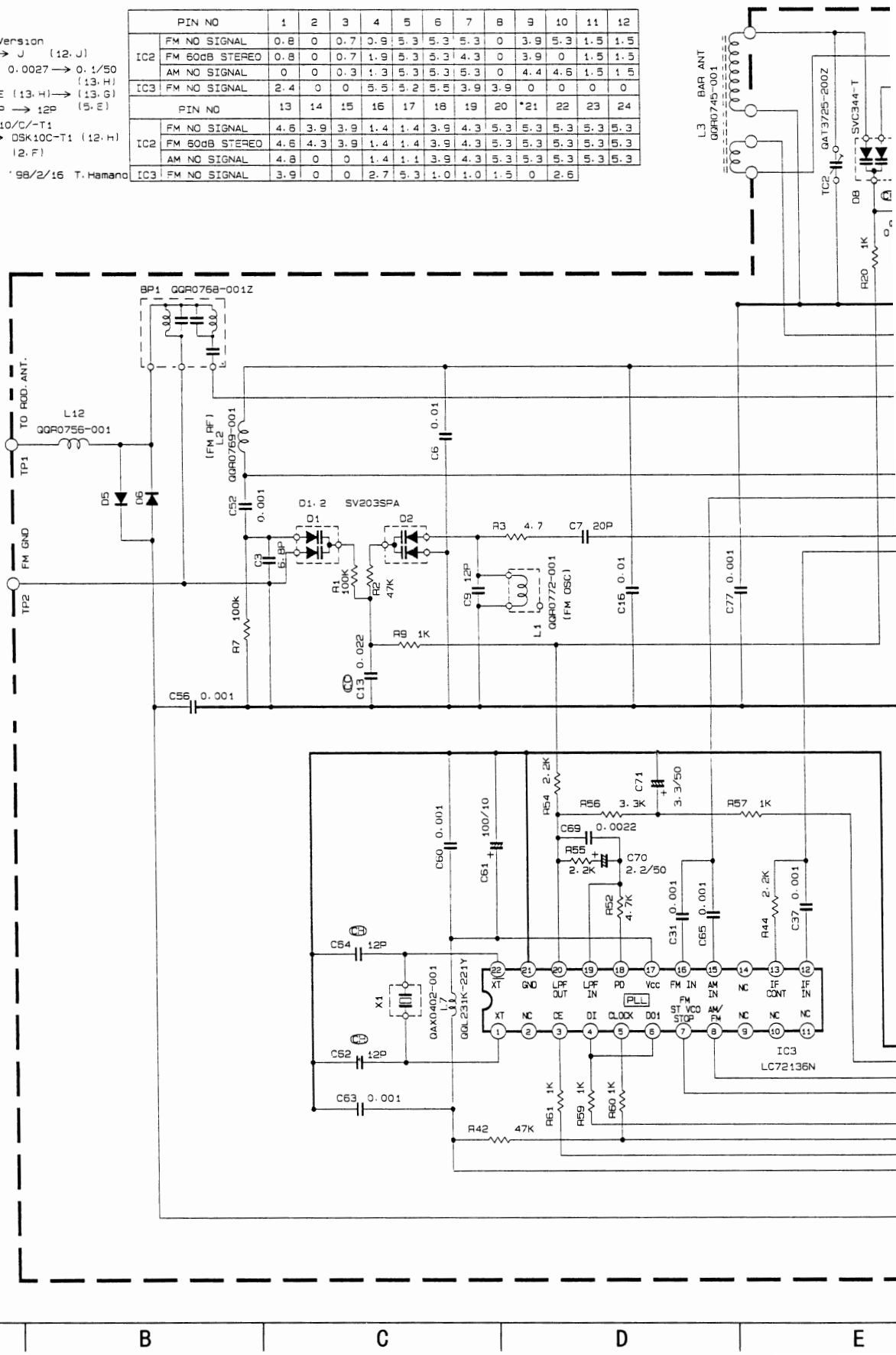
NOTES

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 (nF)/RATED VOLTAGE (V).

Tuner Section (J/C)

▲ Change Version
 J/C → J (12·J)
 C49/C50 0.0027 → 0.1/50
 (13·H)
 C49 MOVE (13·H) → (13·G)
 C9 2.2P → 12P (5·E)
 D12 DSK10/C/-T1
 → DSK10C-T1 (12·H)
 DEL R99 (2·F)
 G(350B) '98/2/16 T.Hamano

PIN NO		1	2	3	4	5	6	7	8	9	10	11	12	
IC2	FM NO SIGNAL	0.8	0	0.7	0.9	5.3	5.3	5.3	0	3.9	5.3	1.5	1.5	
	FM 60dB STEREO	0.8	0	0.7	1.9	5.3	5.3	4.3	0	3.9	0	1.5	1.5	
	AM NO SIGNAL	0	0	0.3	1.3	5.3	5.3	5.3	0	4.4	4.6	1.5	1.5	
IC3	FM NO SIGNAL	2.4	0	0	5.5	5.2	5.5	3.9	3.9	0	0	0	0	
	PIN NO		13	14	15	16	17	18	19	20	*21	22	23	24
	FM NO SIGNAL	4.6	3.9	3.9	1.4	1.4	3.9	4.3	5.3	5.3	5.3	5.3	5.3	
IC2	FM NO SIGNAL	4.6	3.9	3.9	1.4	1.4	3.9	4.3	5.3	5.3	5.3	5.3	5.3	
	FM 60dB STEREO	4.6	4.3	3.9	1.4	1.4	3.9	4.3	5.3	5.3	5.3	5.3	5.3	
	AM NO SIGNAL	4.8	0	0	1.4	1.1	3.9	4.3	5.3	5.3	5.3	5.3	5.3	
IC3	FM NO SIGNAL	3.9	0	0	2.7	5.3	1.0	1.0	1.5	0	2.6			



6

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3

2

1

A

B

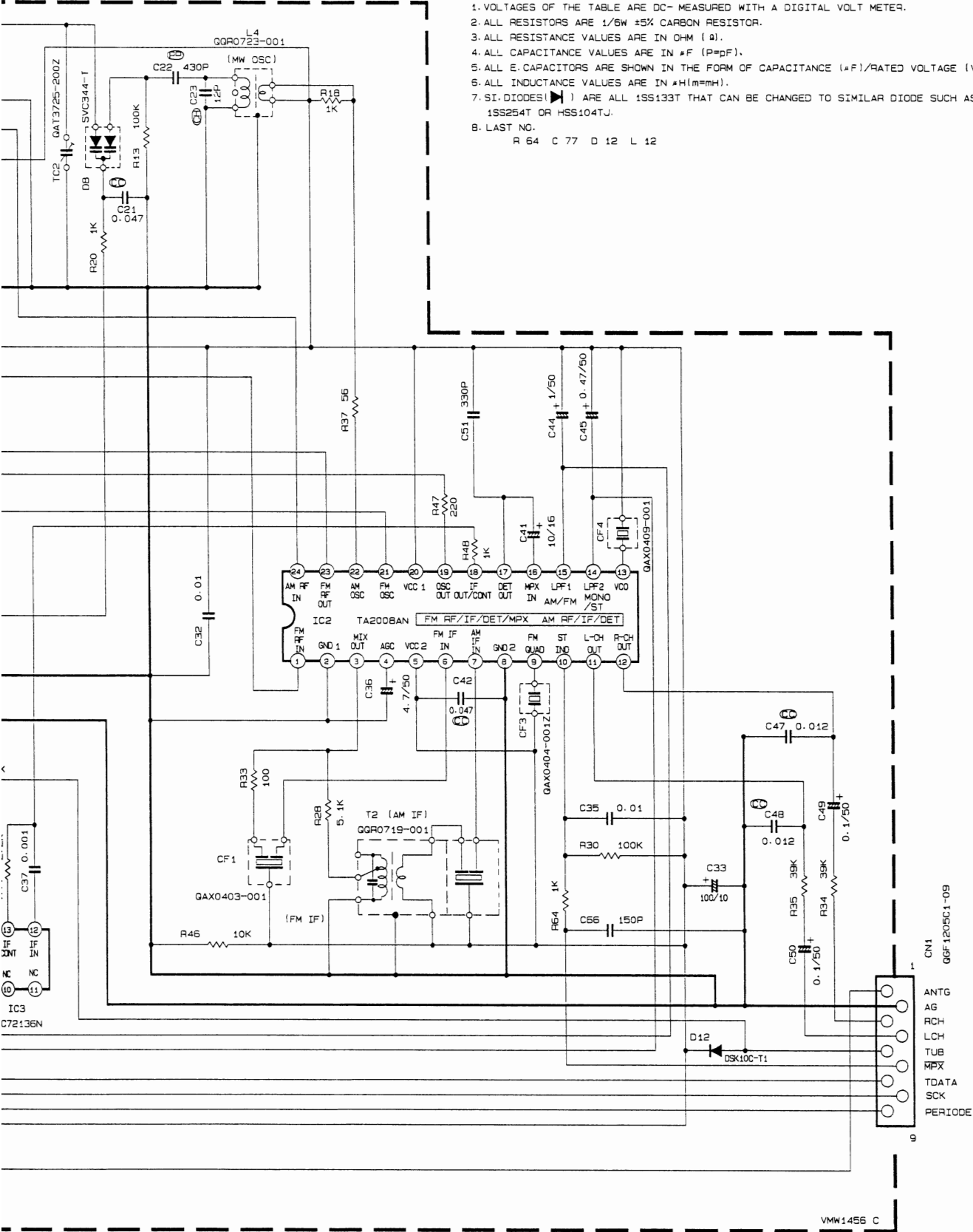
C

D

E

NOTES

1. VOLTAGES OF THE TABLE ARE DC- MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM (Ω).
4. ALL CAPACITANCE VALUES ARE IN *F (P=pF).
5. ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (*F)/RATED VOLTAGE (V).
6. ALL INDUCTANCE VALUES ARE IN *H(m=mH).
7. SI. DIODES (▶) ARE ALL 1SS133T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254T OR HSS104TJ.
8. LAST NO.
R 64 C 77 D 12 L 12

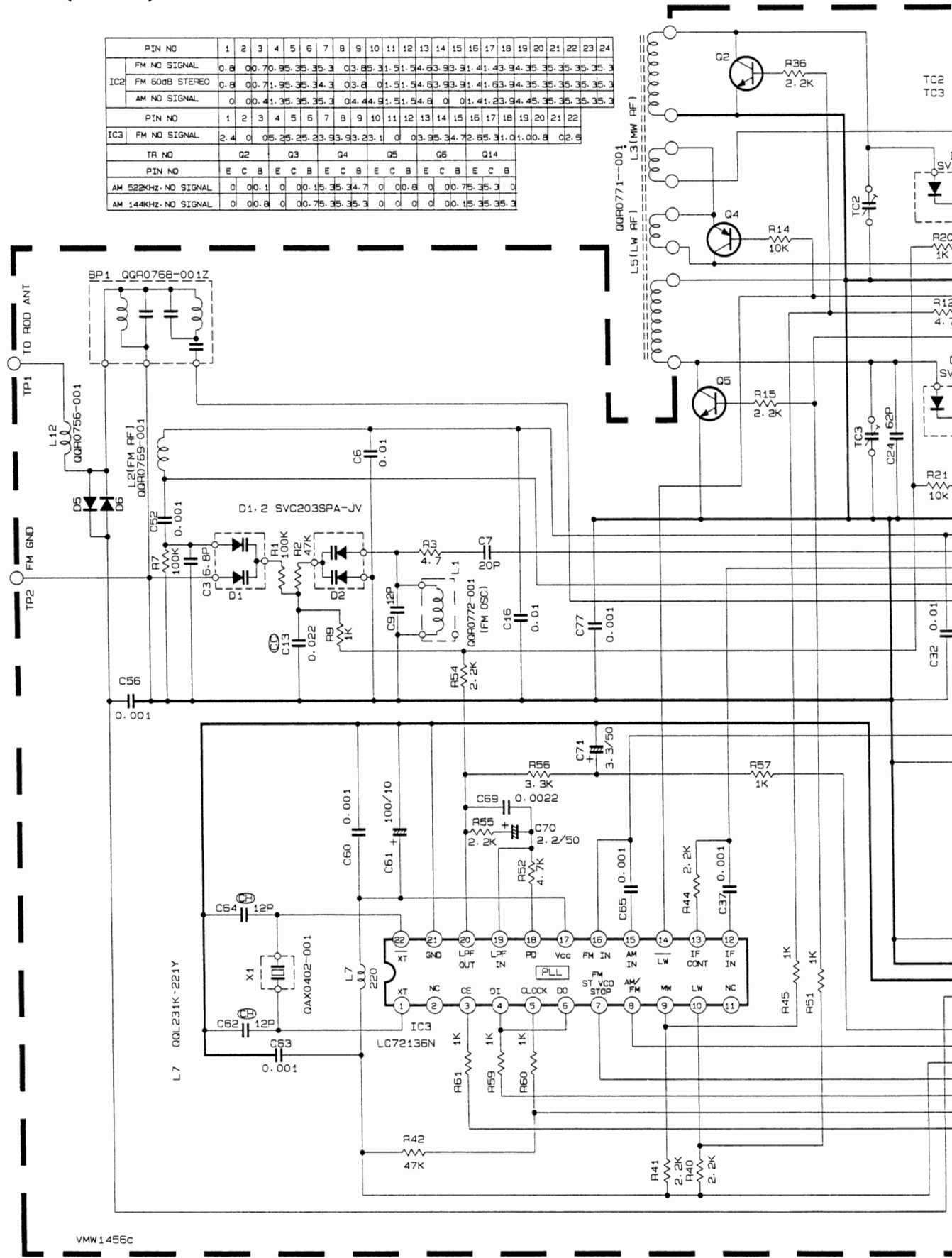


VMW1456 C

■ Tuner Section (E/EN/B)

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
IC2 FM NO SIGNAL	0	8	00	70	95	35	35	3	03	85	31	51	54	63	93	91	41	43	94	35	35	35	35	3
IC2 FM 60dB STEREO	0	8	00	71	95	35	34	3	03	8	01	51	54	63	93	91	41	43	94	35	35	35	35	3
IC2 AM NO SIGNAL	0	00	41	35	35	35	3	04	44	81	51	54	8	0	01	41	23	94	45	35	35	35	35	3
PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
IC3 FM NO SIGNAL	2	4	0	05	25	25	23	53	93	23	1	0	03	95	34	72	85	31	01	00	8	02	5	
TR NO	Q2	Q3	Q4	Q5	Q6	Q14																		
PIN NO	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B						
AM 522kHz. NO SIGNAL	0	00	1	0	00	15	35	34	7	0	00	8	0	00	75	35	3	0						
AM 144kHz. NO SIGNAL	0	00	8	0	00	75	35	35	3	0	0	0	0	0	00	15	35	35	3					

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VMW1456c

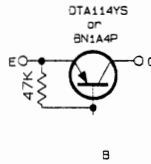
A B C D E

RV-B90GY
RV-B90AG

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHMS (Ω).
4. ALL CAPACITANCE VALUES ARE IN PICO (pF).
5. ALL E. CAPS ARE SHOWN IN THE FORM OF CAPACITANCE (nF)/RATED VOLTAGE (V).
6. ALL INDUCTANCE VALUES ARE IN MILLI (mH).
7. S1. DIODES (▶) ARE ALL 1N4148S THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254T OR HSS104TJ.
8. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q2-3: 5: 6 2SC1923(1)E2
Q4 2SA1175(HFE1)
Q14 DTA114YS or BN1A4P

9. INSIDE OF DIGITAL TRANSISTOR IS SHOWN AS FOLLOWS.



10. LAST COMPONENT NO.

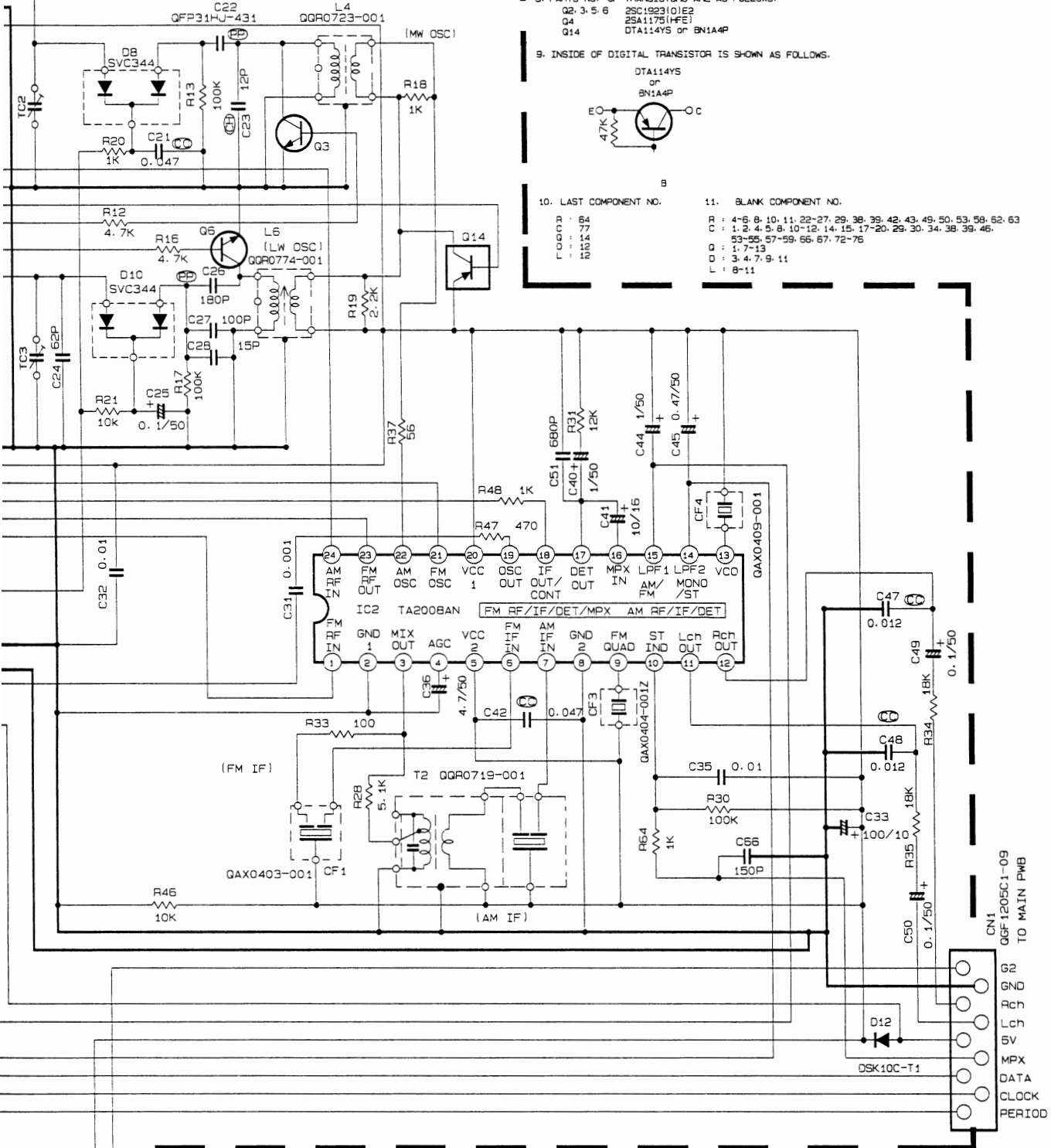
L : 64
R : 77
C : 12
D : 13

11. BLANK COMPONENT NO.

R : 4-6, 8, 10, 11, 22-27, 29, 38, 39, 42, 43, 49, 50, 53, 58, 62, 63
C : 1, 2, 4, 5, 8, 10-12, 14, 15, 17-20, 29, 30, 34, 38, 39, 46,
53-55, 57-59, 66, 67, 72-76
D : 1, 7-13
L : 3, 4, 7, 9, 11
L : 8-11

TC2 QAT3722-200
TC3 QAT3725-300Z

Q2-6: 14
MW/LW SW



E

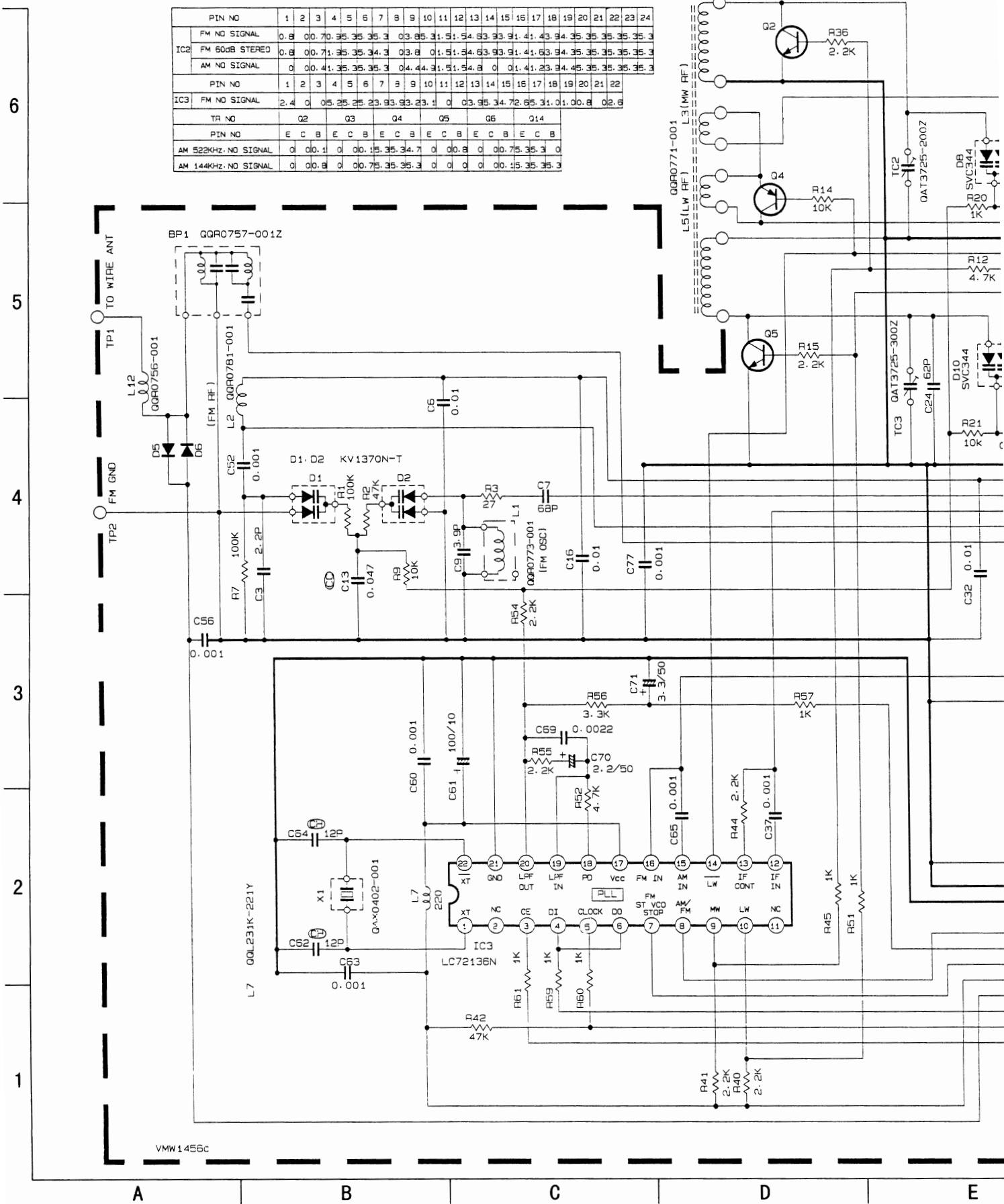
F

G

H

I

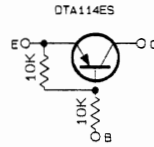
Tuner Section (EE)



VMW1456c

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPACITANCE VALUES ARE IN pF(picoF).
5. ALL E. CAPS ARE SHOWN IN THE FORM OF CAPACITANCE (pF)/RATED VOLTAGE (V).
6. ALL INDUCTANCE VALUES ARE IN μ H(milliH)
7. S1. DIODES(▶) ARE ALL M16ES THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254T OR HS104TJ.
8. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q2, 3, 5 2SC2839(E)
Q4 2SA933S(RS)
Q14 DTA114ES
Q6 2SC2668(I)
9. INSIDE OF DIGITAL TRANSISTOR IS SHOWN AS FOLLOWS.

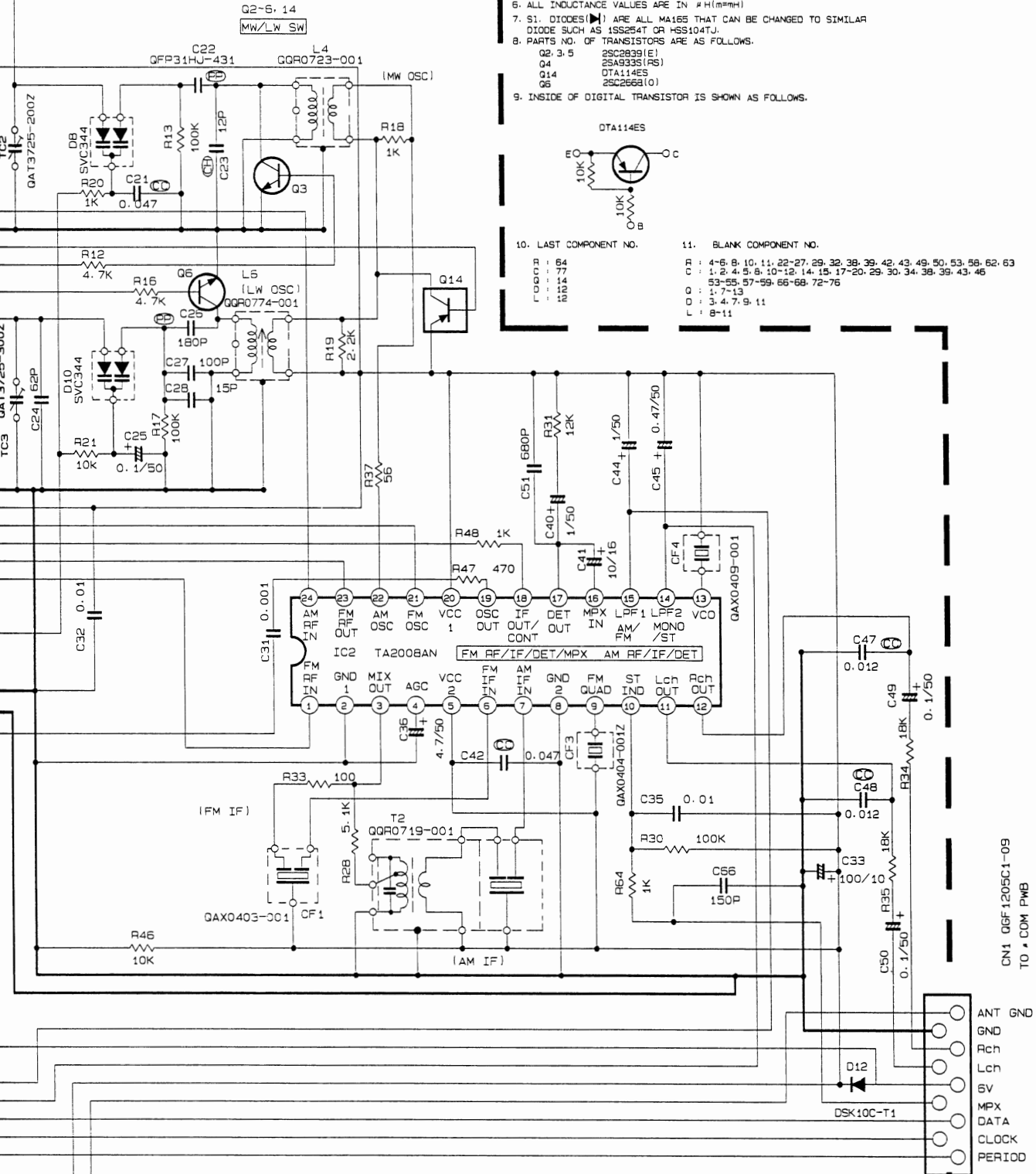


10. LAST COMPONENT NO.

- Q2000B : 64
- Q2000C : 77
- Q2000D : 14
- Q2000E : 18
- Q2000F : 18

11. BLANK COMPONENT NO.

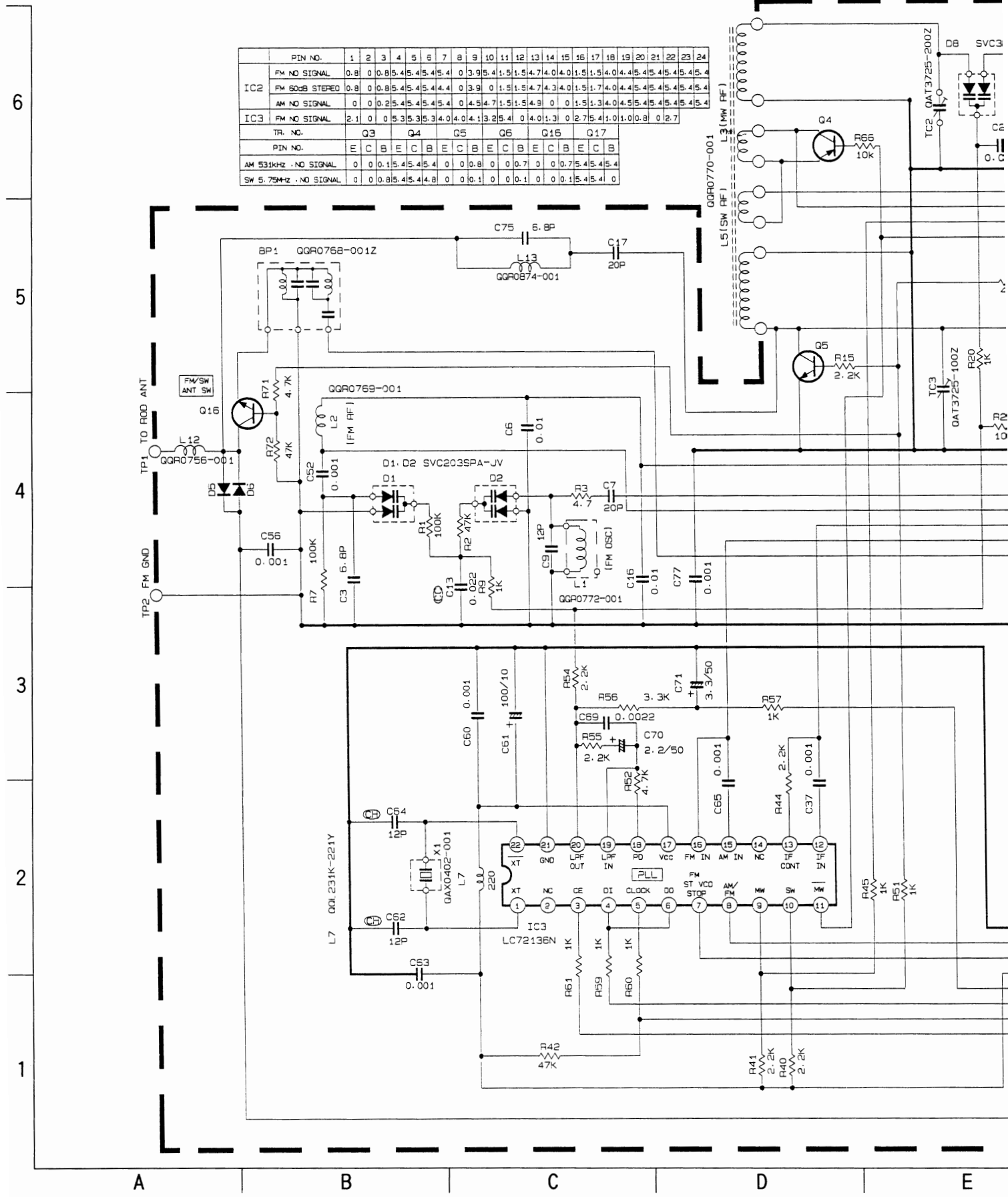
- Q2 : 4-6, 8, 10, 11, 22-27, 29, 32, 38, 39, 42, 43, 49, 50, 53, 58, 62, 63
- Q3 : 1, 2, 4, 5, 6, 10-12, 14, 15, 17-20, 29, 30, 34, 38, 39, 43, 46
- Q4 : 53-55, 57-59, 66-68, 72-76
- Q5 : 1, 7-13
- Q6 : 3, 4, 7, 9, 11
- Q7 : 8-11



Q1 06F1205C1-09
TO COM PWB

E F G H I

■ Tuner Section (A/U/UT/UP/US/UB/UX)



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
IC2 FM NO SIGNAL	0.8	0	0.8	5.4	5.4	5.4	5.4	0	3.9	5.4	1.5	1.5	4.7	4.0	4.0	1.5	1.5	4.0	4.4	5.4	5.4	5.4	5.4	5.4
IC2 FM 60dB STEPEO	0.8	0	0.8	5.4	5.4	5.4	5.4	0	3.9	0	1.5	1.5	4.7	4.0	4.0	1.5	1.7	4.0	4.4	5.4	5.4	5.4	5.4	5.4
IC2 AM NO SIGNAL	0	0	0.2	5.4	5.4	5.4	5.4	0	4.5	4.7	1.5	1.5	4.9	0	0	1.5	1.3	4.0	4.5	5.4	5.4	5.4	5.4	5.4
IC3 FM NO SIGNAL	2.1	0	0	5.3	5.3	5.3	4.0	4.0	4.0	1.3	2.5	4.0	4.0	1.3	0	2.7	5.4	1.0	1.0	0.8	0	0	2.7	4.0
TR. NO.	Q3	Q4	Q4	Q5	Q6	Q6	Q16	Q17																
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B						
IC3 AM 531KHZ . NO SIGNAL	0	0	0.1	5.4	5.4	5.4	0	0	0.8	0	0	0.7	0	0	0.7	5.4	5.4	5.4						
IC3 SW 5.75MHZ . NO SIGNAL	0	0	0.8	5.4	5.4	4.8	0	0	0.1	0	0	0.1	0	0	0	1.5	4.5	4.0						

RV-B90GY
RV-B90AG

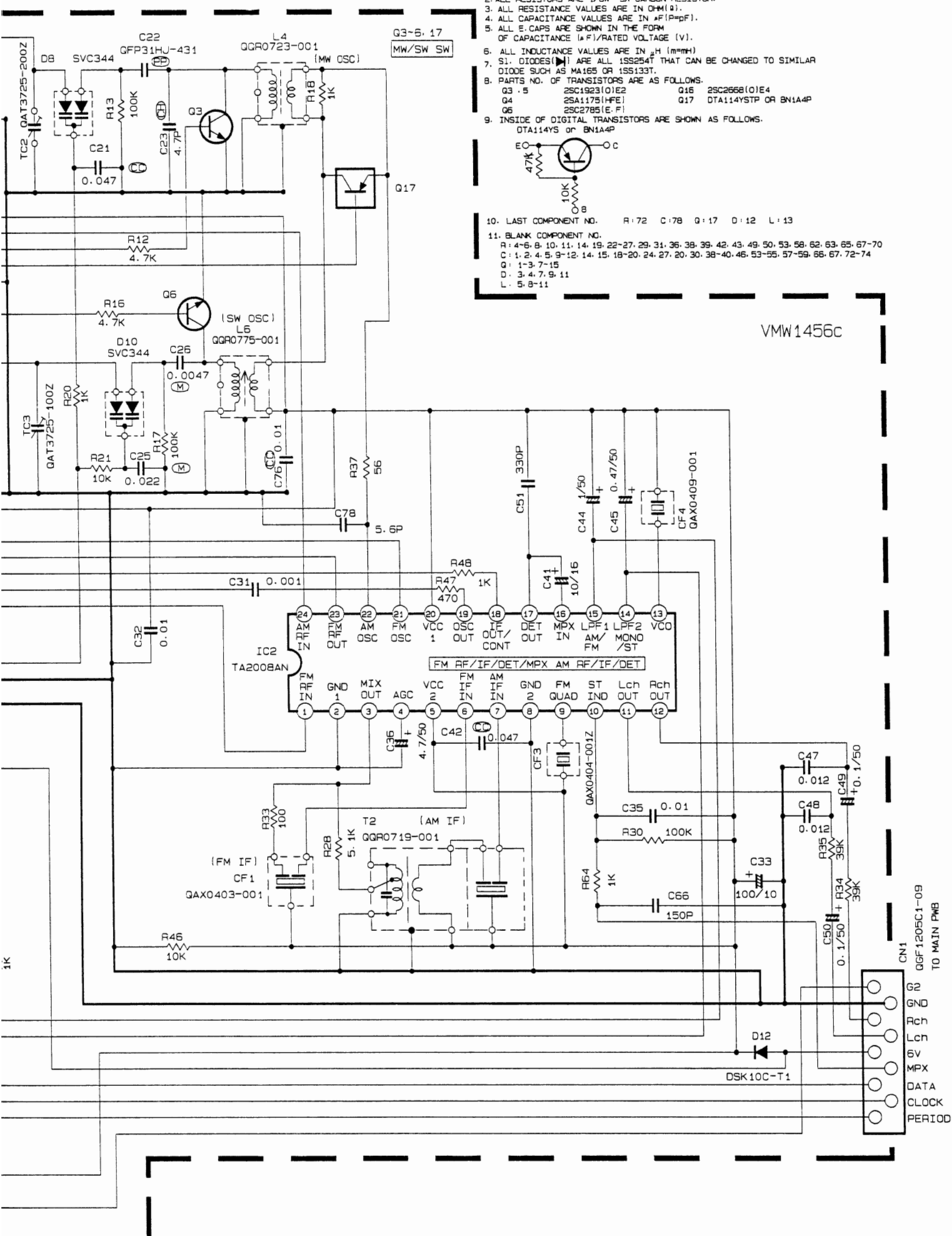
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. ALL RESISTORS ARE 1/8W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPACITANCE VALUES ARE IN nF(pF).
5. ALL CAPS ARE SHOWN IN THE FORM OF CAPACITANCE (A F)/RATED VOLTAGE (V).
6. ALL INDUCTANCE VALUES ARE IN μH (mH)
7. S1. DIODES (D1) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR 1SS133T.
8. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS:

Q3 .5	2SC1923(O1E2)	Q16	2SC2668(O1E4)
Q4	2SA1175(HFE1)	Q17	DTA114YSTP OR 8N1A4P
Q6	2SC2785(E,F1)		
9. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS:

DTA114YS	OR	8N1A4P
----------	----	--------
10. LAST COMPONENT NO. R:172 C:78 Q:17 D:12 L:13
11. BLANK COMPONENT NO.

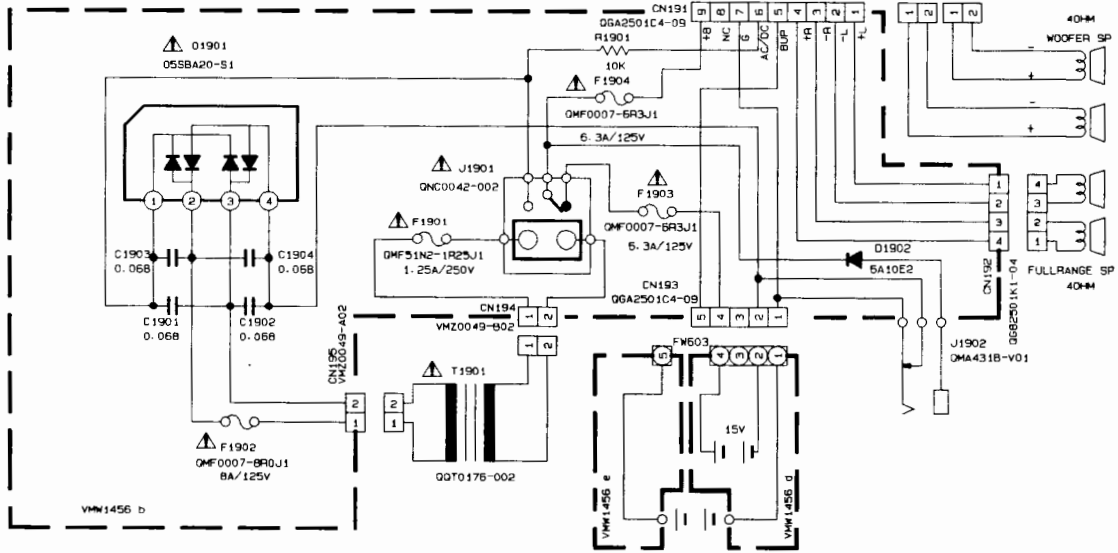
R	1-4-5-8-10-11-14-19-22-27-29-31-36-39-39-42-43-49-50-53-58-62-63-65-67-70
C	1-2-4-5-9-12-14-15-18-20-24-27-20-30-38-40-46-53-55-57-59-66-67-72-74
Q	1-3-7-15
D	3-4-7-9-11
L	5-8-11



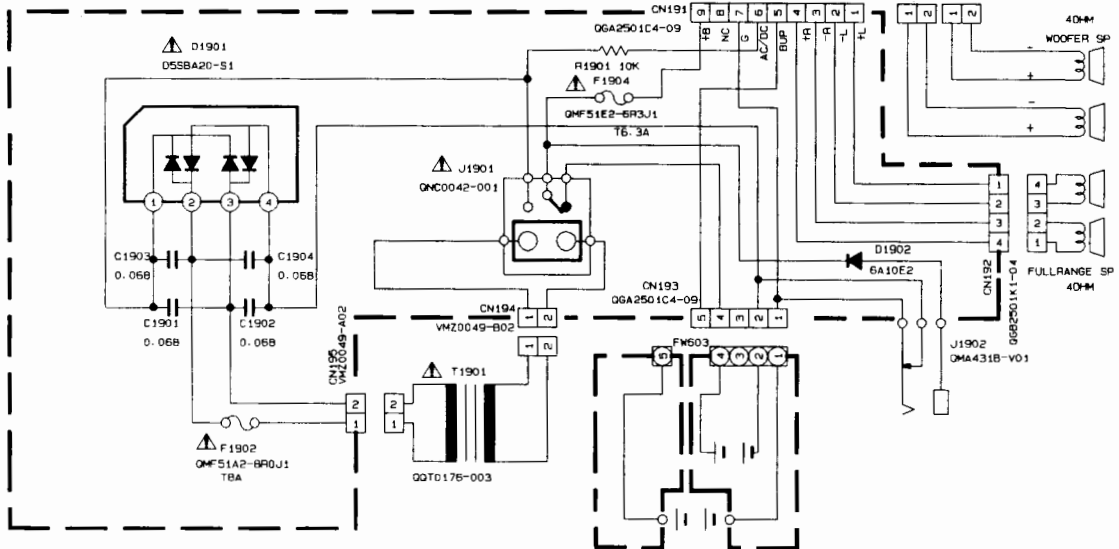
VMW1456C

■ Power supply Section

J/C Version



E/EN/B/EE Version



A

B

C

D

E

6

5

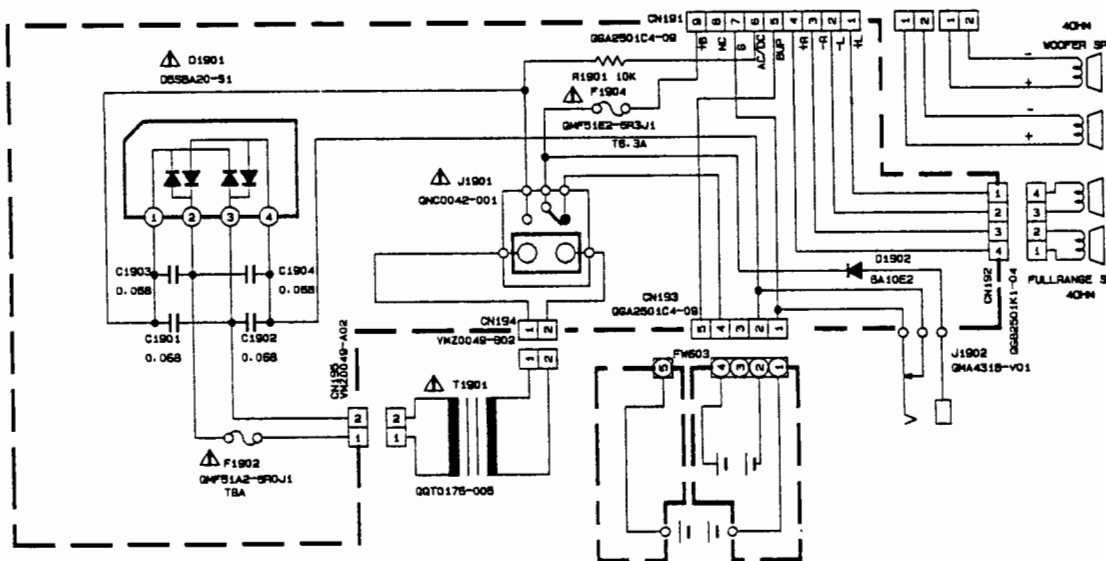
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3

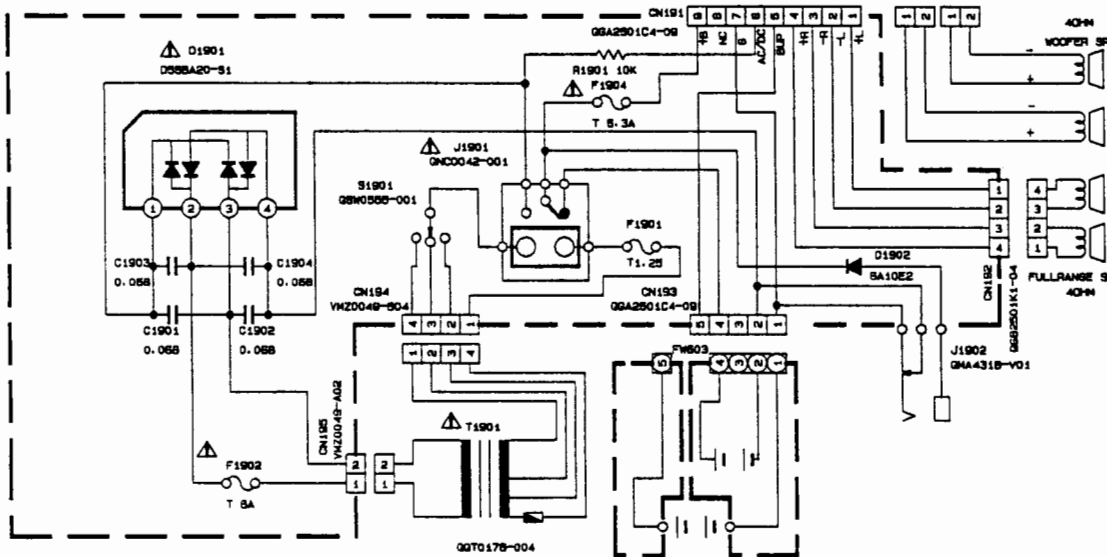
2

1

A Version



U/UT/UP/US//UB/UX Version



F

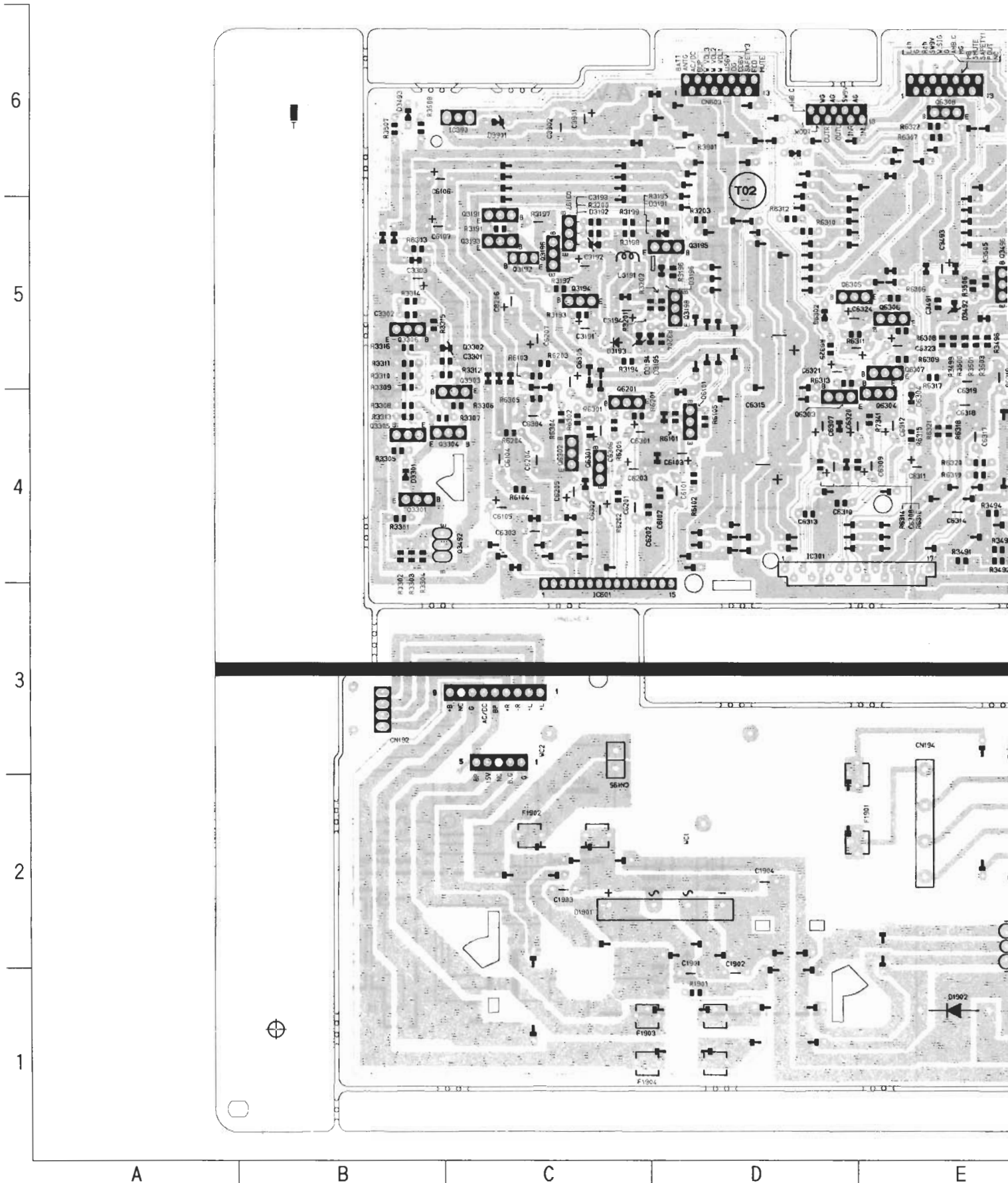
G

H

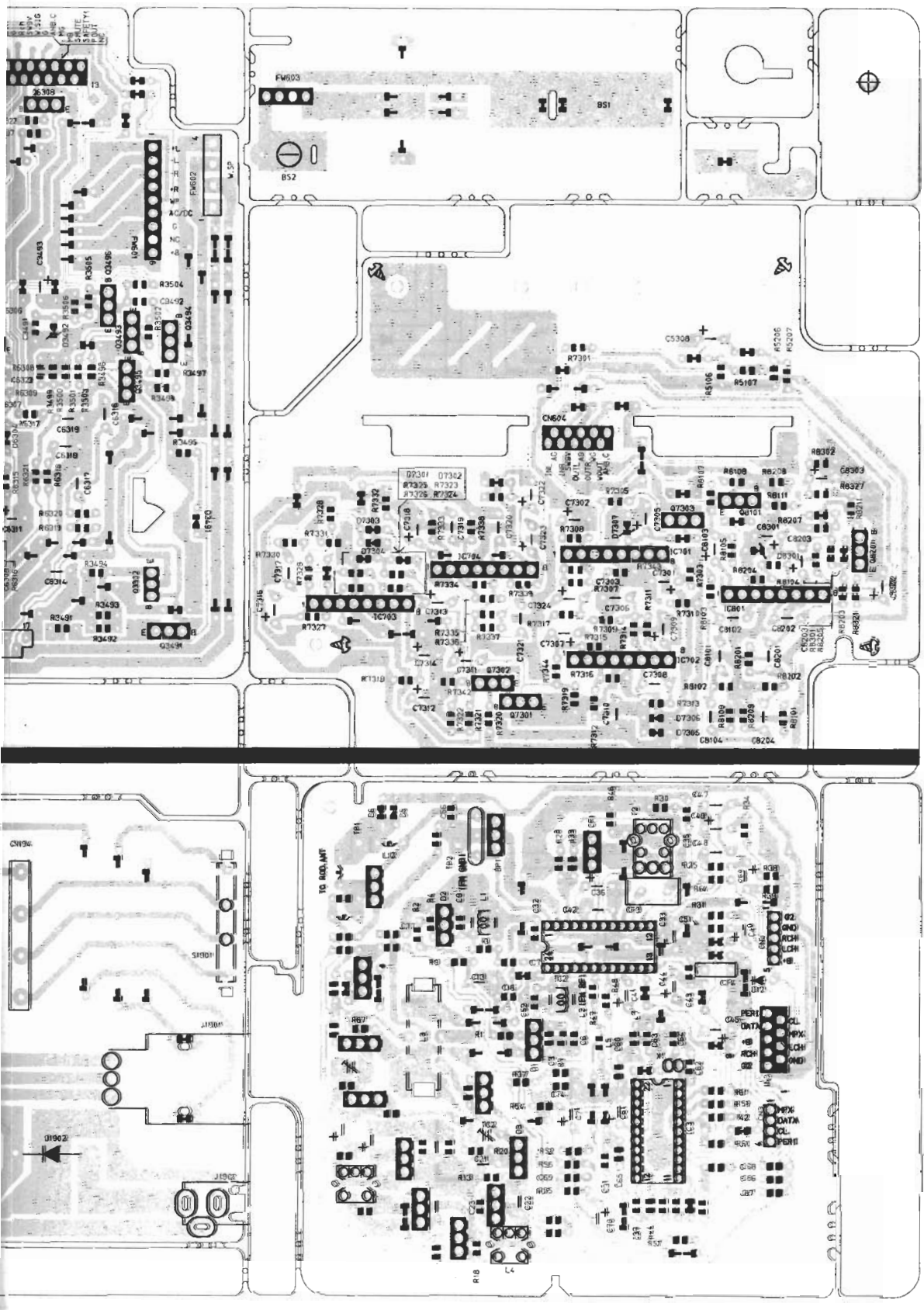
I

J

■ Power Supply and Power Amp. P. C. Board

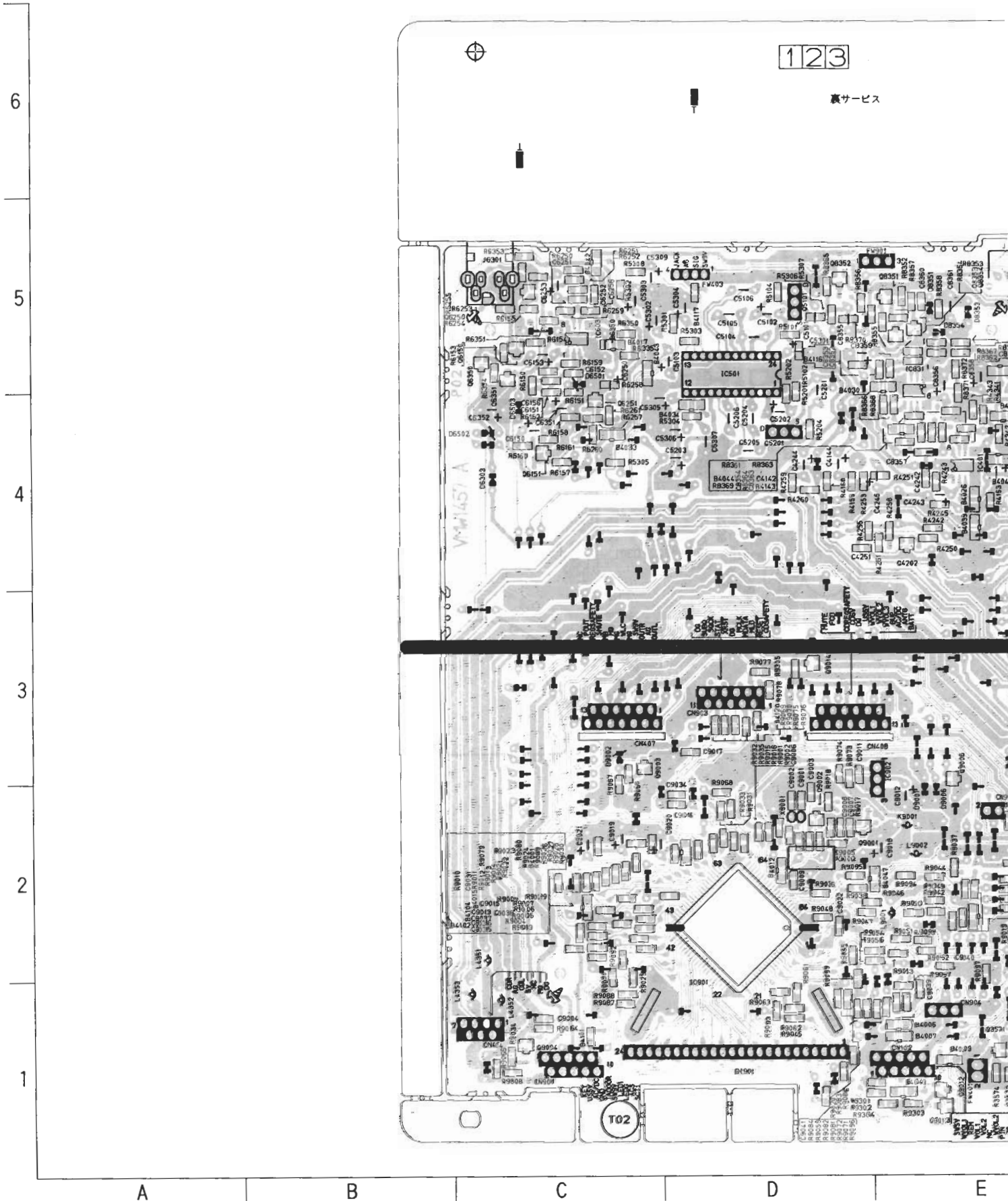


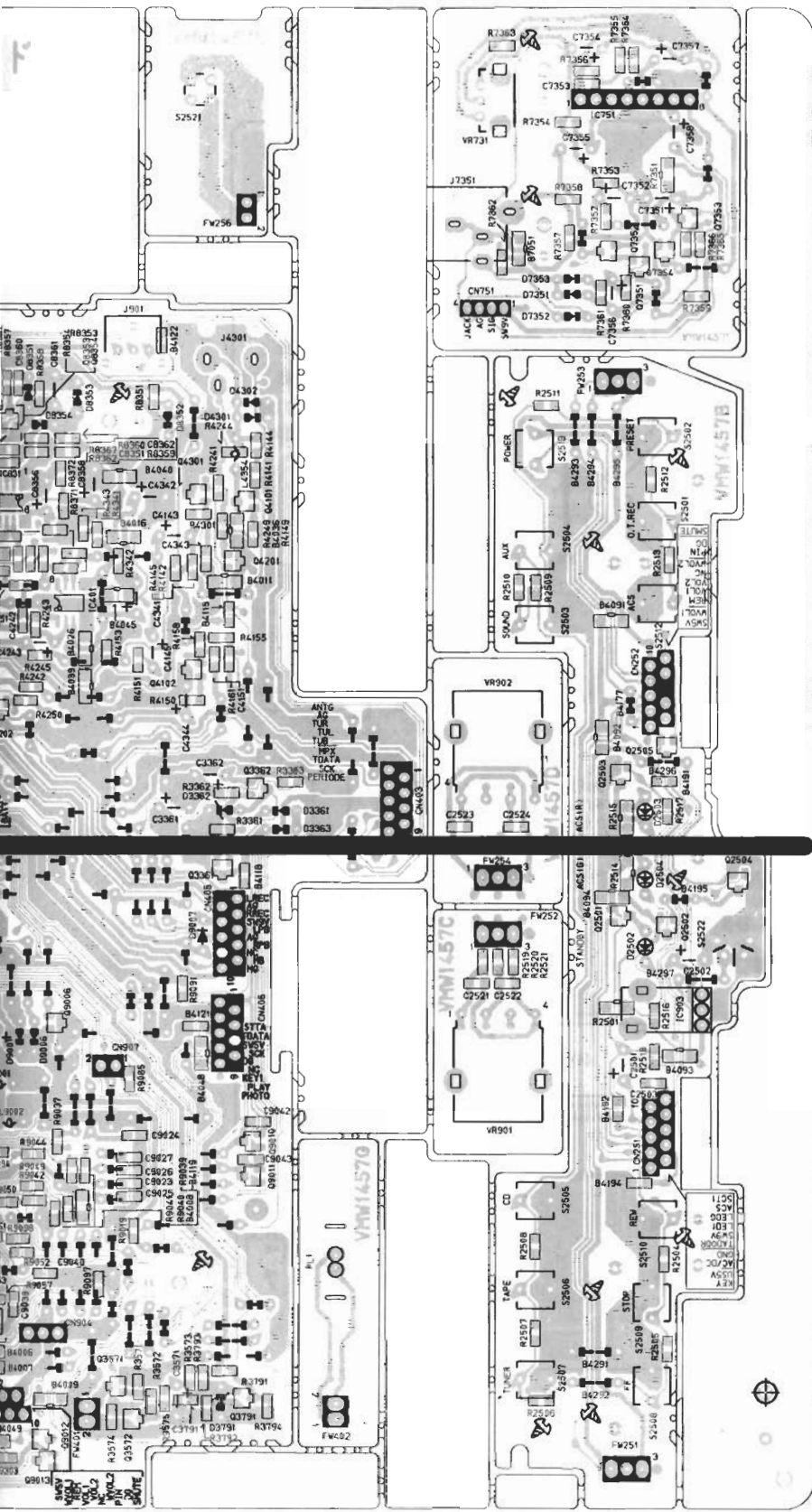
RV-B90GY
RV-B90AG



E F G H I

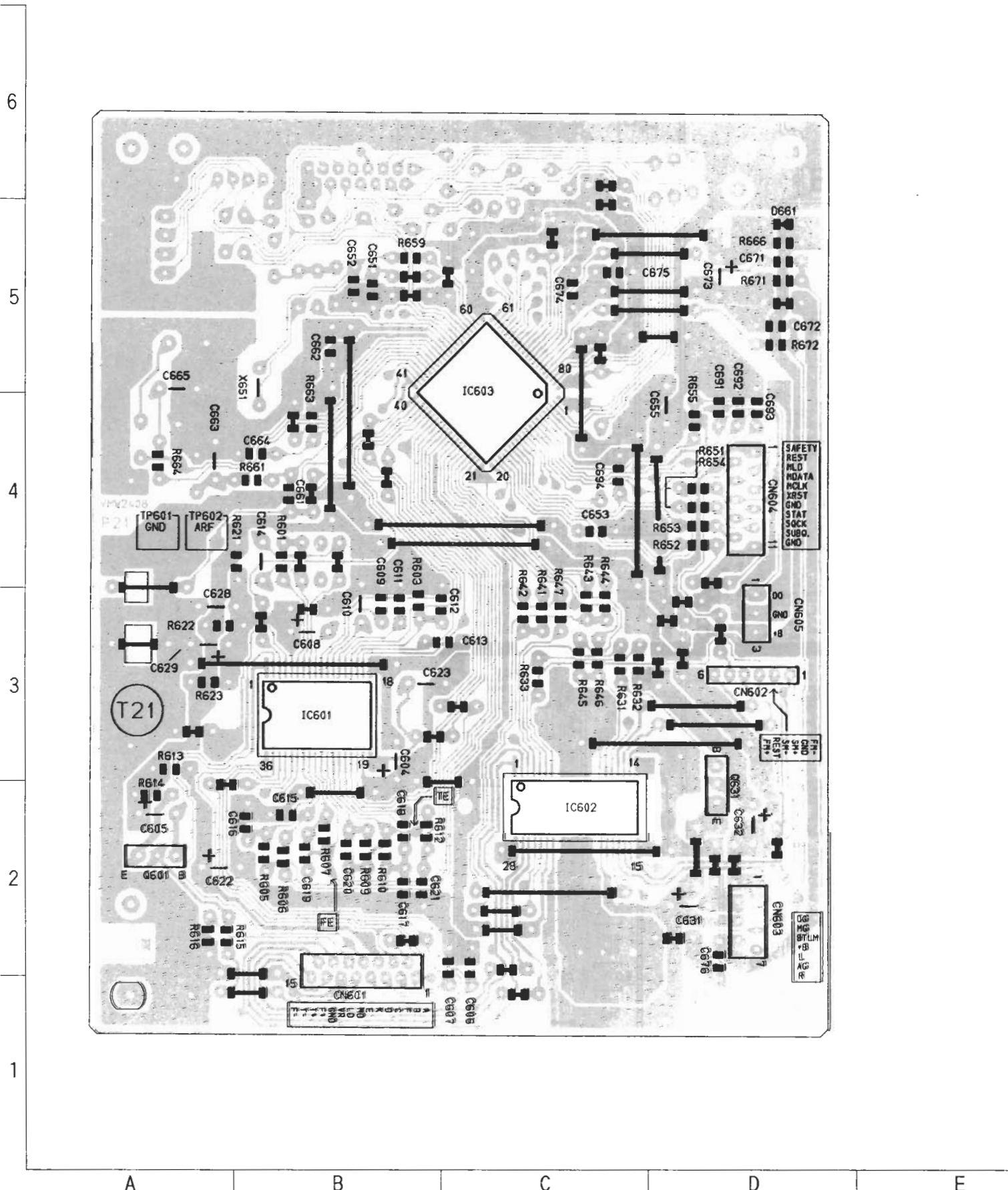
■ Main/Front P. C. Board



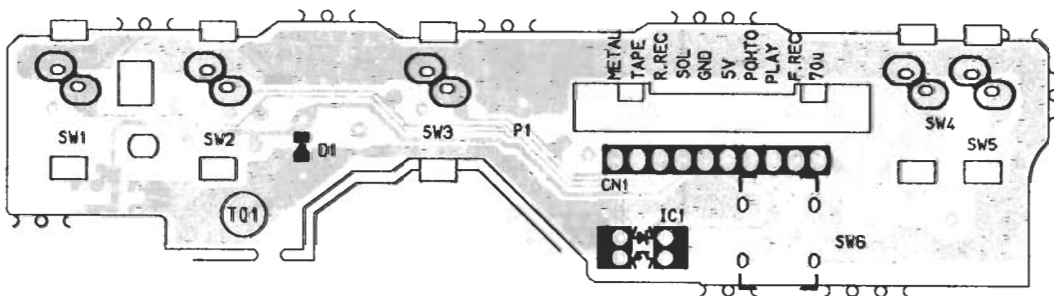
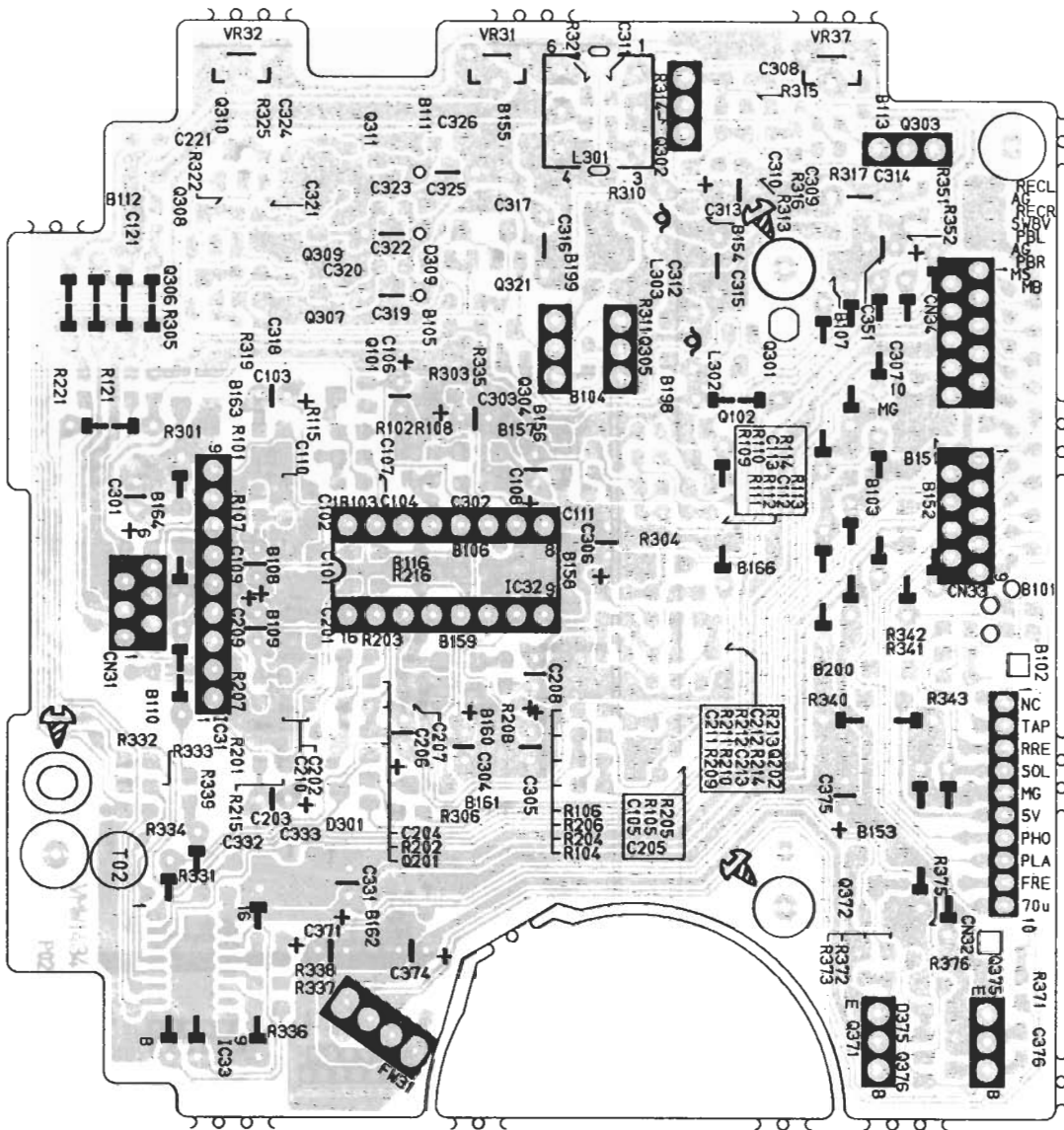


E F G H I

■ CD P. C. Board



■ Cassette Deck P. C. Board



PARTS LIST

[RV-B90GY/RV-B90AG]

* All printed circuit boards and its assemblies are not available as service parts.

RV-B90GY	RV-B90AG
<p>The Marks for Designated Areas</p> <p>J---the U.S.A</p> <p>C---Canada</p> <p>B---the U.K.</p> <p>E---Continental Europe</p> <p>EN---Northern Europe</p> <p>EE---Eastern Europe</p> <p>A--- Australia</p> <p>U--- Universal</p> <p>UT---Taiwan</p> <p>UP---Korea</p> <p>US---Singapore</p> <p>UX--- Sauzi Arabia</p> <p>UB--- Hong Kong</p>	<p>The Marks for Designated Areas</p> <p>J---the U.S.A</p> <p>B--- the U.K.</p> <p>E---Continental Europe</p> <p>EN---Northern Europe</p> <p>EE--- Eastern Europe</p>

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CD Changer Mechanism Ass'y and Parts List	3-9
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Accessories List	3-23
Packing Materials and Parts List	3-24

BLOCK NO. M1MM1111

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VJG1500-02AUL	FRONT CABINET		1		
		VJG1500-02AUL	FRONT CABINET		1	J	AG
		VJG1500-00AUL	FRONT CABINET		1		
		VJG1500-02AUL	FRONT CABI SA		1	E	AG
	2	QAS0006-001	SPEAKER	L/R	2		
	3	SBSF3010Z	SCREW	FOR SC SPK.	8		
	4	VYH2280-002	CAP (L)	PP(SC SPK)	1		
	5	VYH2281-002	CAP (R)		1		
	6	VKZ4389-009	SOUND ABSOBER		2		
	7	VKZ4805-001UL	SOUND ABSOBER		2		
	8	VYSH102-097	SPACER		2		
	9	SBSF3010Z	SCREW		8		
	11	VJD2495-002	FRONT COVER	MIPS	1		
		VJD2495-022	FRONT COVER	MIPS	1	E	AG
		VJD2495-023	FRONT COVER	MIPS	1	J	AG
		VJD2495-003	FRONT COVER(A)	MIPS	1	J,C	GY
	12	SBSF2608Z	T.SCREW		10		
	13	VJK4520-001	LCD LENS		1		
	15	VYSH102-098	SPACER		2		
	16	VXP3890-001	POWER BUTTON(A)		1		
		VXP3890-021	POWER BUTTON		1	E	AG
		VXP3890-021	POWER BUTTON		1	J	AG
	17	VXP3891-001	FUNCTION BUTTON		1		
		VXP3891-021	FUNCTION BUTTON		1	E	AG
		VXP3891-021	FUNCTION BUTTON		1	J	AG
	18	VXL4455-001	VOL.KNOB		2		
	19	VYTS539-002	VOL.SHEET		2		
	20	VJF3007-001	FOOT		1		
	21	VJF3007-002	FOOT		1		
	22	VYSA1R6-079	SPACER		2		
	23	SBSF3010Z	SCREW		6		
	24	VJK4516-002	L.E.D.LENS		1		
		VJK4516-001	LENS		1	J,C	
	25	VJD5512-001	L.E.D.LENS		1		
		VJD5512-002	L.E.D.LENS		1	J,C	
	28	GBSF3010Z	TAP SCREW		1		
	30	PQ45130-7	JVC MARK		1		
	31	VJT2389-001	CASSETTE HOLDER	MIPS	1		
		VJT2389-021	CASSETTE HOLDER	MIPS	1	E	AG
		VJT2389-021	CASSETTE HOLDER	MIPS	1	J	AG
	32	VJT2390-001	DOOR COVER	MIPS	1		
		VJT2390-021	CASSETTE DOOR	MIPS	1	E	AG
		VJT2390-021	CASSETTE DOOR	MIPS	1	J	AG
	33	VJT4246-021	CASSETTE LENS		1	E	AG
		VJT4246-001	DOOR LENS		1		
		VJT4246-021	CASSETTE LENS		1	J	AG
	34	VKY4180-001	CASSETTE SPRING		2		
	35	VYHS601-001	GEAR		1		
	36	VXL4458-021	EJECT KNOB		1	E	AG
		VXL4458-001	EJECT KNOB		1		
		VXL4458-021	EJECT KNOB		1	J	AG
	37	VYH8174-001	CAM(A)		1		
	39	VKY4736-001	PLATE SPRING(A)		1		
	40	VKY4737-002	PLATE SPRING(B)		1		
	41	SBSF2008Z	SCREW		1		

BLOCK NO. M1MM1111

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	43	VKW5309-001	DOOR SPRING	SUS	1		
	44	SLC-S1YPM	SLC MECHA ASS'Y		1		
	45	VKL7850-002	EJECT SAFTY(R)		1		
	46	VKW5258-002	TORSION SPRING		1		
	47	SBSF3014Z	SCREW		4		
	48	VMA4728-002	HEAD SHIELD		1		
	50		CD MECHA		1		
	51	VJD5410-204	PICK-UP COVER		1		
	52	SDSF2006M	SCREW		4		
	53	FMYH4003-003	INSULATOR		2		
	54	FMYH4003-004	INSULATOR		2		
	55	VYH7815-001	CD MECHA HOLDER		2		
	56	SBSF3010Z	SCREW		4		
	57	E65923-003	TAPPING SCREW		1		
	58	VJD1225-001UL	CD CASE		1		
		VJD1225-001UL	CD CASE		1	E	AG
		VJD1225-001UL	CD CASE		1	J	AG
	60	SBSF3010Z	SCREW		4		
	61	SBSF3010Z	SCREW		4		
	62	VYH4769-002	GEAR		1		
	65	VJT1060-003	CD DOOR		1		
		VJT1060-023	CD DOOR		1	E	AG
		VJT1060-023	CD DOOR		1	J	AG
	66	VYH3644-001	CLAMPER	FOR OPTIMA-6	1		
	67	VYH7313-003	MAGNET		1		
	68	VYH7314-001	YOKE		1		
	69	VYH7315-005	PAD		1		
	70	VXL4458-001	EJECT KNOB		1		
		VXL4458-021	EJECT KNOB		1	E	AG
		VXL4458-021	EJECT KNOB		1	J	AG
	71	VYH8197-001	CAM(B)		1		
	72	SBSF2008Z	SCREW		1		
	73	VKY4736-001	PLATE SPRING(A)		1		
	74	VKY4737-002	PLATE SPRING(B)		1		
	75	VYH8178-001	SLIDER(B)		1		
	76	VKW5334-001	SWITCH SPRING		1		
	77	VYH8204-001	SWITCH LEVER		1		
	78	VYH8205-001	LOCK		1		
	79	SDSF2606M	SCREW		1		
	80	VYH8176-002	COVER		1		
	81	VKW5352-001	TENSION SPRING		1		
	82	VKW5335-002	CD DOOR SPRING		1		
	83	VKZ4794-002	SPECIAL SCREW		3		
	84	VMH3021-001	HEAT SINK		1		
	85	VYH3892-005	HEAT SINK		1		
	86	VMH4055-002	HEAT SINK		1		
	87	SBSF3010Z	SCREW		1		
	88	SBSF3010Z	SCREW		2		
	89	SBSF3010Z	SCREW		4		
	90	SBST3008Z	TH TAP SCREW		4		
	91	VYH8188-002	BRACKET		2		
	92	SBSF3010Z	SCREW		4		
	93	VYK3011-001	LCD HOLDER		1		
	94	VYH8193-002	SHEET		1		

BLOCK NO. M1MM1111

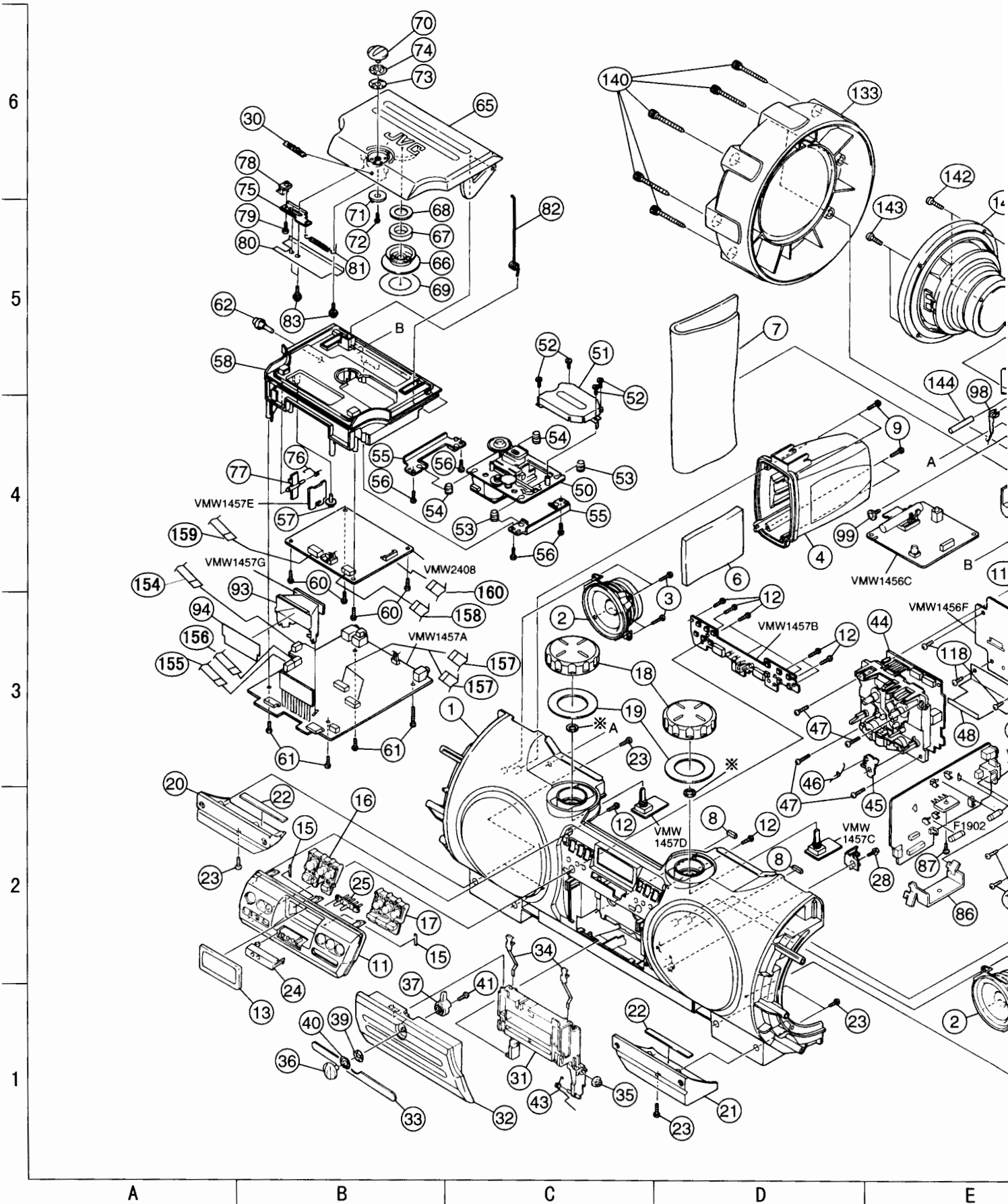
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
96	VJG1502-005	REAR CABINET	MIPS	1	U,US,UT	
	VJG1502-003UL	REAR CABINET	MIPS	1		
	VJG1502-023UL	REAR CABINET	MIPS	1	E	AG
	VJG1502-023UL	REAR CABINET	MIPS	1	J	AG
	VJG1502-009	REAR CABINET	MIPS	1	UP	
	VJG1502-005	REAR CABINET	MIPS	1	UB,UX	
97	FMJA3001-00A(D)	ROD ANT ASS'Y		1		
98	VYH5012-005SS	TERMINAL LUG	SPTT TO.4	1		
99	E65923-003	TAPPING SCREW		1		
100	SDSP3012N	SCREW	FOR ROD ANT	1		
102	SBSF4012Z	SCREW		4		
103	VYSH101-028	SPACER		1		
104	VKZ4001-016	WIRE HOLDER		1		
105	VYH8179-002	JACK HOLDER		1		
110	SBSF3010Z	SCREW	FOR JACK HOLDER	2		
	SBSF3010Z	SCREW	FOR JACK HOLDE	3	U,US,UT	
	SBSF3010Z	SCREW	FOR JACK HOLDE	3	UB,UX,UP	
111	VJD2503-001	DUCT		1		
112	VKZ4796-001	SOUND ABSORBER		2		
113	VJD2503-002	DUCT		1		
114	SBSF3010Z	SCREW		8		
115	VJD5510-001	DUCT CAP		2		
116	VJD1230-002UL	GRILLE		1		
	VJD1230-022UL	REAR GRILLE		1	E	AG
	VJD1230-022UL	REAR GRILLE		1	J	AG
117	SBSF3010Z	SCREW		4		
118	SBSF3010Z	SCREW		4		
121	VJE3036-001	BATTERY LID		1		
	VJE3036-021	BATTERY LID		1	J	AG
	VJE3036-021	BATTERY LID		1	E	AG
122	SBSF3010Z	SCREW		2		
123	VYH8199-001	COVER		1		
	VYH8199-021	CAP COVER		1	E	AG
	VYH8199-021	CAP COVER		1	J	AG
124	VYTH542-001	SHEET(COVER)		1		
125	VYSH101-029	SPACER		1		
127	SBSF3010Z	SCREW		1		
128	VKZ4001-111	WIRE HOLDER		1		
129	SBSF3010Z	SCREW		1		
130	VJC2603-001	BATTERY COVER		1		
	VJC2603-021	BATTERY COVER		1	E	AG
	VJC2603-021	BATTERY COVER		1	J	AG
131	VYH5657-001	BATTERY SPRING		1		
132	E65923-003	TAPPING SCREW		1		
133	VJD1233-00CUL	SIDE PROTECT.AS		2		
140	VKZ4795-001	SPECIAL SCREW		12		
141	QAS0007-001	SPEAKER		2		
142	SBSF4012Z	SCREW		4		
143	SBSF4012Z	SCREW		4		
144	VKH3012-073	SHAFT(E)		2		
145	SBSF3035Z	SCREW	FRONT+REAR	10		
146	SBSF3010Z	SCREW		2		
147	VYN5219-D005T	NAME PLATE		1	E,EN,B	GY
	VYN5219-006T	NAME PLATE		1	J,C	GY

BLOCK NO. M1MM

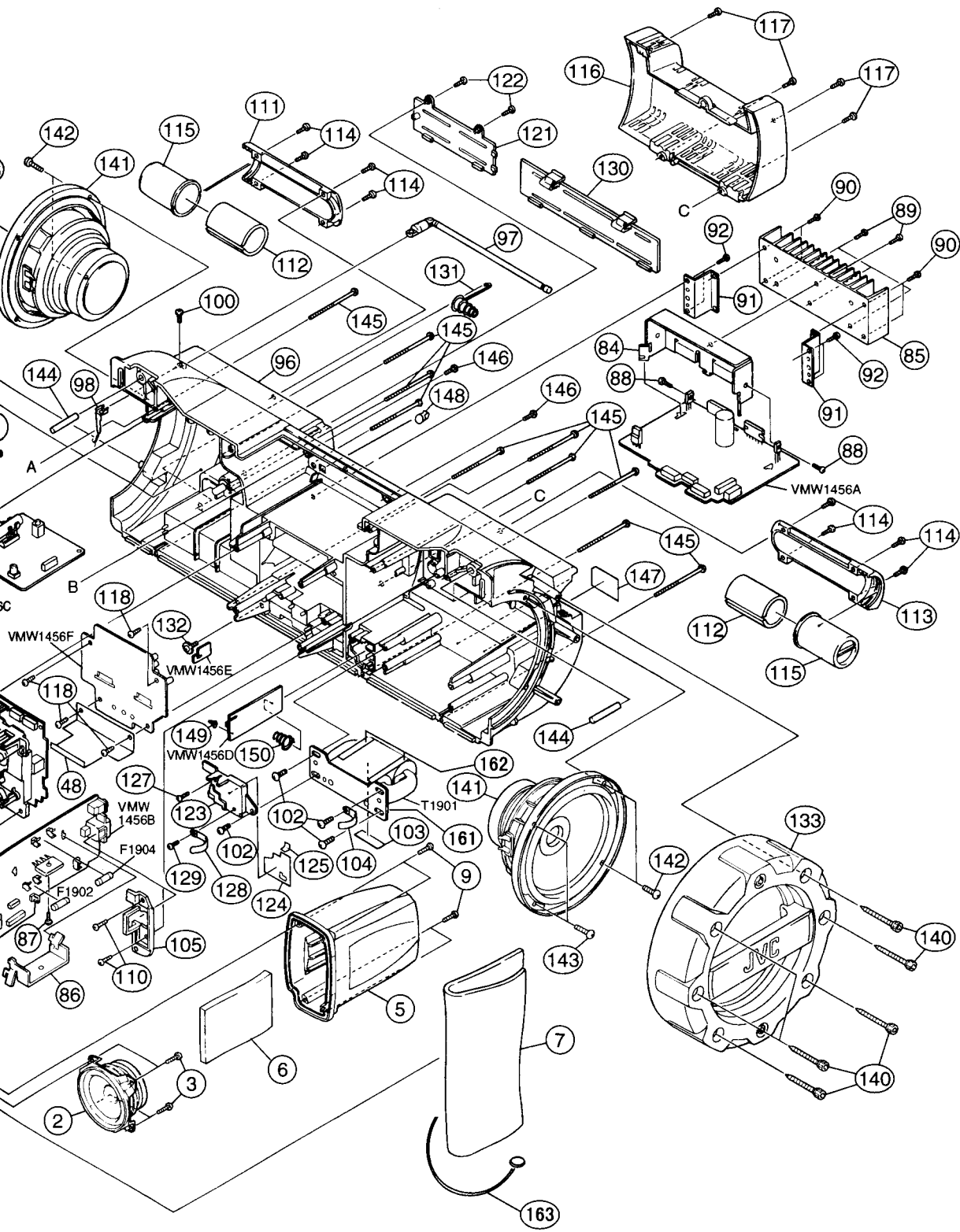
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	VYN5219-D014T	NAME PLATE		1	US	
	VYN5219-D003T	NAME PLATE		1	A	
	VYN5219-D107T	NAME PLATE		1	UX	
	VYN5219-D205T	NAME PLATE		1	E,EN,B	AG
	VYN5219-206T	NAME PLATE		1	J	AG
	VYN5219-D212T	NAME PLATE		1	EE	AG
	VYN5219-D022T	NAME PLATE		1	UP	
	VYN5219-D010T	NAME PLATE		1	UT	
	VYN5219-D007T	NAME PLATE		1	U,UB	
	VYN5219-D012T	NAME PLATE		1	EE	GY
148	VXL4442-001	VOLUME KNOB		1	U,UX,UB	
149	SBSF3010Z	SCREW		2	U,UX,UB	
150	VYH5483-001	LEAF SPRING		1		
151	VYH7199-001	LEAF SPRING		1		
154	QUQ412-0912CJ	FLAT WIRE		1		
155	QUQ412-0916CJ	FLAT WIRE		1		
156	QUQ412-1018CJ	FLAT WIRE		1		
157	QUQ412-1310CJ	FLAT WIRE		1		
158	QUQ412-0706CJ	FLAT WIRE		1		
159	QUQ412-1112CJ	FLAT WIRE		1		
160	QUQ110-1507AJ	FLAT WIRE		1		
161	VYK3023-001	SHIELD PLATE		1	J,C	
162	VYSA1R6-079	SPACER		2	J,C	
163	QZW0009-001	WIRE CLAMP		1	J,C	
F1902	QMFZ031-8R0-J1	FUSE	2ND	1		
F1904	QMF51U1-8R0-J1	FUSE	2ND	1	J	
F1904	QMF51A2-6R3-S	FUSE	DC	1		
F1904	QMF0007-6R3J1	FUSE	DC	1		
T1901	QQT0176-004	POWER TRANS		1	J	
T1901	QQT0176-004	POWER TRANS		1	U,UB,UX	
T1901	QQT0176-004	POWER TRANS		1	US,UT	
T1901	QQT0176-002	POWER TRANSF.		1	J	
T1901	QQT0176-005	POWER TRANS		1	A	
T1901	QQT0176-003	POWER TRANSF.		1	E,EN,B	
T1901	QQT0176-003	POWER TRANSF.		1	EE,UP	

General Exploded View and Parts List

Block No. M1MM



M1MM



E F G H I

■ Cassette Mechanism Parts

Block No. M2MM

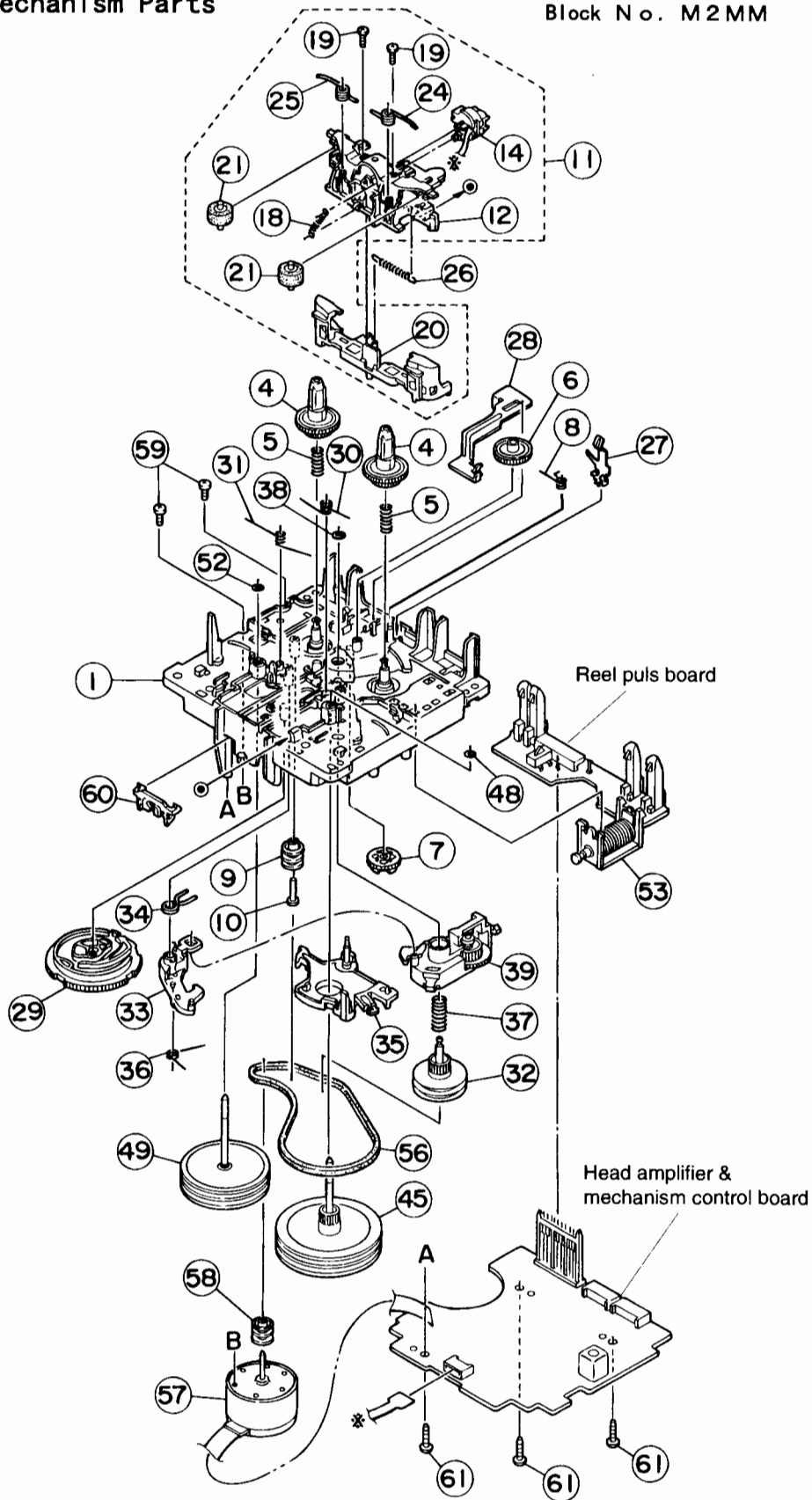


Fig. 39

■ Cassette Mechanism Board

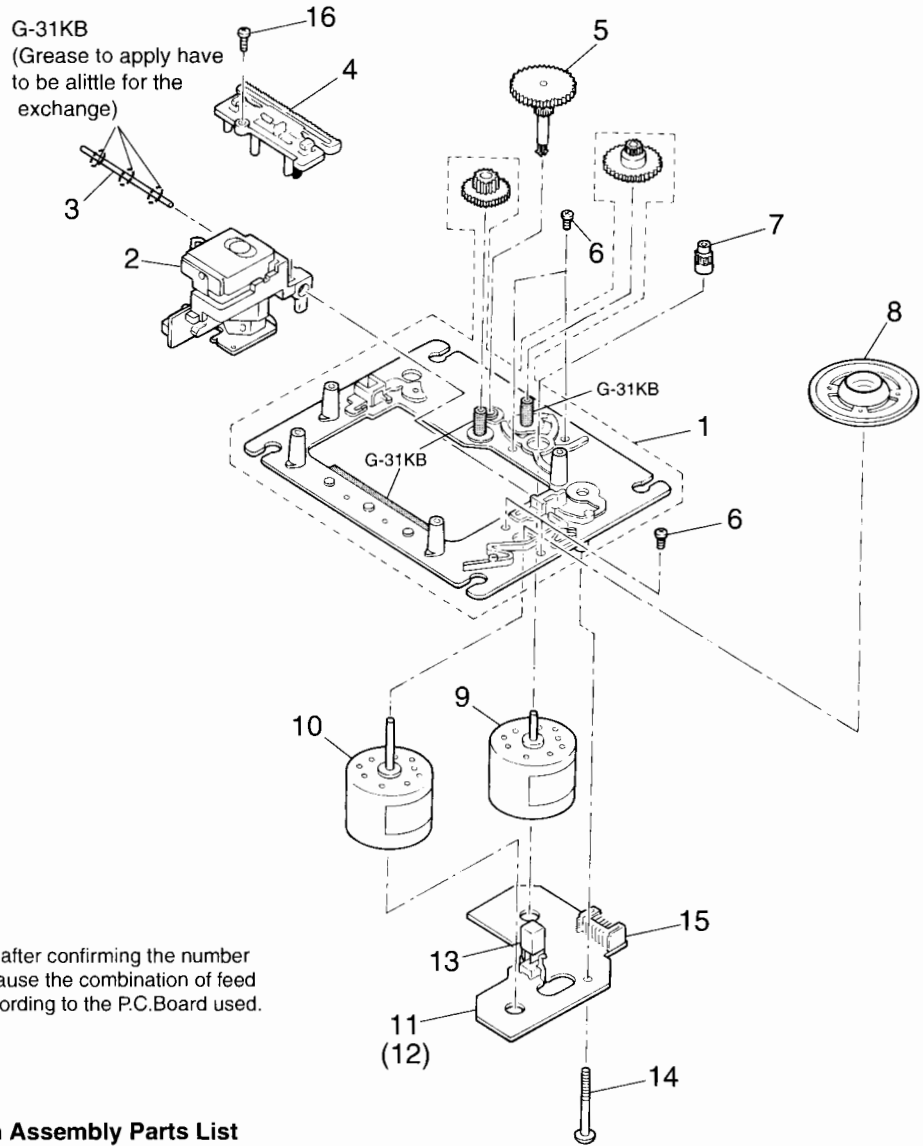
BLOCK NO. M2MM

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VKS1165-00E	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	VKS5597-00AKP	BLIND ASS'Y		1		
8	VKW5296-001	EARTH SPRING		1		
9	VKR4749-002	IDLER PULLEY		1		
10	VKH5786-002	SHAFT		1		
11	VKS2275-00C	HEAD MOUNT ASSY		1		
12	VKS1167-001KP	HEAD MOUNT BASE		1		
14	VGH0425-544	R/P&E HEAD		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	VKS1166-003KP	CONTROL CAM		1		
30	VKW5279-001	HEAD BASE SP(R)		1		
31	VKW5280-001	HEAD BASE SP(L)		1		
32	VKS5603-00C	MAIN PULLEY ASY		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	VKS3786-00EKP	CLUTCH ASSY		1		
45	VKF3205-00B	F.WHEEL ASSY(R)		1		
48	WDL183425	SLIT WASHER		1		
49	VKF3207-00B	F.WHEEL ASSY(L)		1		
52	WDL173525-6	SLIT WASHER		1		
53	VKZ3174-00AKP	DC SOLENOID		1		
56	VKB3000-181	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 Ass'y and Parts List

■ Grease Point

Block No. M 3 M M



NOTE
Please order motor after confirming the number of the P.C.Board because the combination of feed motor is different according to the P.C.Board used.

■ CD Mechanism Assembly Parts List

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	1	EPB-002PK	MECHA. BASE ASSY	1		
	2	OPT1MA-150S	OPTICAL PICK UP	1		
	3	E407782-001	CD SHAFT	1		
	4	E307746-001	CD RACK	1		
	5	EPB-003A	MECHA GEAR	1		
	6	SDSP2003N	SCREW	4		
	7	E406750-001	PINION GEAR	1		
	8	EPB309173A	TURN TABLE	1		
	9	E406784-001	FEED MOTOR	1	Use the No.11 P.C.Board	
		MDN-4RA3ETA-1	FEED MOTOR	1	Use the No.12 P.C.Board	
	10	E406783-001	SPINDLE MOTOR	1		
	11	EMW10190-001 (S)	P. C. BOARD	1		
	12	EMW10190-221 (S)	P. C. BOARD	1		
	13	ESB1100-005	LEAF SWITCH	1		
	14	E75832-001	SCREW	1		
	15	EMV5109-006B	CONN. TERMINAL	1		
	16	SDSF2006Z	SCREW	1		

A

B

C

D

E

Electrical Parts List

■ Main P. C. B.

BLOCK NO. 01111111				BLOCK NO. 01111111							
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN251	0GB1216K1-10S	CONNECTOR				C5304	0ER41HM-105	E-CAPACITOR	1.0MF 20% 50V	
	CN252	0GB1216K1-10S	CONNECTOR				C5305	0EK61CM-107	E-CAPACITOR	100MF 20% 16V	
	CN403	0GF1205C1-09	CONNECTOR				C5306	0EK41EM-475	E-CAPACITOR	4.7MF 20% 25V	
	CN404	0GF1205C1-07	CONNECTOR				C5307	0FLC1HJ-673ZM	M-CAPACITOR	0.47MF 5% 50V	
	CN405	VMC0163-010	CONNECTOR				C5309	0EK41HM-674	E-CAPACITOR	4.7MF 20% 50V	
	CN406	0GF1205C1-09	CONNECTOR				C6352	0EK41CM-226Z	E-CAPACITOR	22MF 20% 16V	UT,UB,UX
	CN407	0GF120G1-13	CONNECTOR				C7351	0ETC1CM-226Z	E-CAPACITOR	22MF 20% 16V	U,UP,US
	CN408	0GF120G1-13	CONNECTOR				C7351	0ETC1CM-226Z	E-CAPACITOR	22MF 20% 16V	U,UP,UX
	CN751	0GA2001F1-04	4P PLUG ASSY		UT,UB,UX		C7352	0ETC1CM-226Z	E-CAPACITOR	22MF 20% 16V	U,UP,US
	CN752	0GA2001F1-04	4P PLUG ASSY		U,UP,US		C7352	0ETC1CM-226Z	E-CAPACITOR	22MF 20% 16V	U,UP,UX
	CN901	0GB1216J1-10S	CONNECTOR				C7353	NCS21HJ-221AY	C-CAPACITOR	220PF 5% 50V	
	CN902	0GB1216J1-10S	CONNECTOR				C7353	NCS21HJ-221AY	C-CAPACITOR	220PF 5% 50V	
	CN903	VMC0163-R11	CONNECTOR				C7354	0ETC1HM-335Z	E-CAPACITOR	3.3MF 20% 50V	UT,UB,UX
	CN904	0GA2501C3-03Z	CONNECTOR				C7354	0ETC1HM-335Z	E-CAPACITOR	3.3MF 20% 50V	U,UP,US
	CN907	0GA2501C4-02	CONNECTOR				C7355	0ETC1HM-474Z	E-CAPACITOR	4.7MF 20% 50V	UT,UB,UX
	C2501	0ER41HM-105	E-CAPACITOR	1.0MF 20% 50V			C7355	0ETC1HM-474Z	E-CAPACITOR	4.7MF 20% 50V	U,UP,US
	C2502	0ER41CM-476M	E-CAPACITOR	47MF 20% 16V			C7356	0ETC1CM-336ZN	E-CAPACITOR	33MF 20% 16V	UT,UB,UX
	C2503	NCB21HK-333AY	C-CAPACITOR	001KARA NO HENK			C7356	0ETC1CM-336ZN	E-CAPACITOR	33MF 20% 16V	U,UP,US
	C2521	NCB21HK-103AY	C-CAPACITOR	-010MF 10% 50V			C7357	0ETC1HM-335Z	E-CAPACITOR	3.3MF 20% 50V	UT,UB,UX
	C2522	NCB21HK-103AY	C-CAPACITOR	-010MF 10% 50V			C7357	0ETC1HM-335Z	E-CAPACITOR	3.3MF 20% 50V	U,UP,US
	C2523	NCB21HK-103AY	C-CAPACITOR	-010MF 10% 50V			C7358	0ETC1HM-475Z	E-CAPACITOR	4.7MF 20% 50V	UT,UB,UX
	C2524	NCB21HK-103AY	C-CAPACITOR	-010MF 10% 50V			C7358	0ETC1HM-475Z	E-CAPACITOR	4.7MF 20% 50V	U,UP,US
	C3361	0EK61AM-107ZM	E-CAPACITOR	100MF 20% 10V			C8351	NCS21HJ-680AY	C-CAPA. C.M	68PF 5% 50V	
	C3362	0EK41EM-475	E-CAPACITOR	4.7MF 20% 25V			C8352	NCS21HJ-221AY	C-CAPACITOR	220PF 5% 50V	
	C3371	0EK41CM-476	E-CAPACITOR	4.7MF 20% 16V			C8353	NCS21HJ-221AY	C-CAPACITOR	220PF 5% 50V	
	C4142	NCB21HK-103AY	C-CAPACITOR	-010MF 10% 50V			C8354	NCS21HJ-330AY	C-CAPACITOR	33PF 5% 50V	
	C4143	NCB21HJ-150AY	C-CAPA. C.M	15PF 5% 50V			C8355	0FV71HJ-124ZM	TF-CAPACITOR	12MF 5% 50V	
	C4144	0EK41EM-475	E-CAPACITOR	4.7MF 20% 25V			C8356	0EK61AM-107ZM	E-CAPACITOR	100PF 5% 10V	
	C4145	0TE1V06-106Z	E-CAPACITOR	4.7MF 20% 25V			C8357	NCS21HJ-101AY	C-CAPACITOR	100PF 5% 50V	
	C4151	NCB21HJ-681AY	C-CAPACITOR	680PF 5% 50V			C8358	0EK51HM-226	E-CAPACITOR	22MF 20% 50V	
	C4242	NCB21HJ-150AY	C-CAPA. C.M	15PF 5% 50V			C8359	0EK51HM-106	E-CAPACITOR	10MF 20% 50V	
	C4243	0EK41EM-475	E-CAPACITOR	4.7MF 20% 25V			C8360	NCB21HK-272AY	C-CAPACITOR	2700PF 10% 50V	
	C4244	0EK41EM-475	E-CAPACITOR	4.7MF 20% 25V			C8361	0FV41HJ-104ZM	TF-CAPACITOR	10MF 5% 50V	
	C4245	0TE1V06-106Z	E-CAPACITOR	4.7MF 20% 25V			C8362	NCB21HK-673AY	C-CAPACITOR	0.47MF 10% 50V	
	C4251	NCB21HJ-681AY	C-CAPACITOR	680PF 5% 50V			C8363	NCS21HJ-101AY	C-CAPACITOR	100PF 5% 50V	
	C4341	0EK41CM-476	E-CAPACITOR	47MF 20% 16V			C9001	NCS21HJ-220AY	C-CAPACITOR	SUB CLOCK	
	C4342	0EK61CM-107	E-CAPACITOR	100MF 20% 16V			C9002	NCS21HJ-220AY	C-CAPACITOR	SUB CLOCK	
	C4343	NCB21HJ-151AY	C-CAPACITOR	150PF 5% 50V			C9003	NCS21HJ-151AY	C-CAPACITOR	BEAT	
	C4344	0EK51HM-226	E-CAPACITOR	22MF 20% 50V			C9005	NCS21HJ-240	C-CAPACITOR	MAIN CLOCK	
	C5101	0FLM1HJ-152Z	M-CAPACITOR	1500PF 5% 50V			C9006	NCS21HJ-240	C-CAPACITOR	MAIN CLOCK	
	C5102	0ER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V			C9007	NCS21HJ-220AY	C-CAPACITOR	MAIN CLOCK	
	C5103	0EK51EM-106	E-CAPACITOR	10MF 20% 25V			C9008	NCS21HJ-360AY	C-CAPACITOR	MAIN CLOCK	
	C5104	0FLM1HJ-563Z	M-CAPACITOR	0.56MF 5% 50V			C9009	NCB21HK-103AY	C-CAPACITOR	VDD	
	C5105	0FLM1HJ-563Z	M-CAPACITOR	0.56MF 5% 50V			C9011	NCB21HK-103AY	C-CAPACITOR	RESET	
	C5106	0FLM1HJ-563Z	M-CAPACITOR	5600PF 5% 50V			C9012	0FR61HM-226Z	E-CAPACITOR	22MF 20% 50V	
	C5201	0FLM1HJ-152Z	M-CAPACITOR	1500PF 5% 50V			C9013	NCS21HJ-151AY	C-CAPACITOR	150PF 5% 50V	
	C5202	0ER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V			C9015	NCS21HJ-151AY	C-CAPACITOR	150PF 5% 50V	
	C5203	0EK51EM-106	E-CAPACITOR	10MF 20% 25V			C9016	NCS21HJ-151AY	C-CAPACITOR	150PF 5% 50V	
	C5204	0FLM1HJ-563Z	M-CAPACITOR	0.56MF 5% 50V			C9017	NCS21HJ-151AY	C-CAPACITOR	150PF 5% 50V	
	C5205	0FLM1HJ-563Z	M-CAPACITOR	5600PF 5% 50V			C9018	0ER41AM-107	E-CAPACITOR	100MF 20% 10V	
	C5206	0FLM1HJ-563Z	M-CAPACITOR	5600PF 5% 50V			C9019	0ER51HM-106	E-CAPACITOR	BASS	
	C5301	0EK51HM-106	E-CAPACITOR	10MF 20% 50V			C9020	0ER51HM-106	E-CAPACITOR	TRE	
	C5302	0ER41HM-105	E-CAPACITOR	1.0MF 20% 50V			C9021	0ER51HM-106	E-CAPACITOR	10MF 20% 50V	
	C5303	0ER41HM-105	E-CAPACITOR	1.0MF 20% 50V			C9022	NCB21HK-103AY	C-CAPACITOR	AVREF	
	C5303	0ER41HM-225	E-CAPACITOR	2.2MF 20% 50V			C9023	NCS21HJ-151AY	C-CAPACITOR	150PF 5% 50V	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
A L4353	VQ00033-100Z	INDUCTOR		
L4354	VQ00048-009	INDUCTOR		
L9001	VQ00033-100Z	INDUCTOR		
L9002	VQ00033-100Z	INDUCTOR		
PL 1	QLL0043-001	LAMP		
Q2501	DTA124XKA-X	C.D. TRANSISTOR	J,C-EXCEPT	
Q2502	25C2412KK1	TRANSISTOR		
Q2503	25C2412KK1	TRANSISTOR		
Q2504	DT1144TKA-X	TRANSISTOR		
Q2505	DTA143TKA-X	TRANSISTOR		
A Q3361	2SA1037AKT146	CHIP TR.-C.M	TUNER SW	
Q3362	25C2412KK1	TRANSISTOR		
Q3571	25B82474/-X	TRANSISTOR		
Q3572	25C2412KK1	TRANSISTOR		
Q3791	25C2412KK1	TRANSISTOR		
Q4101	25D59674/-X	TRANSISTOR		
Q4102	25D59674/-X	TRANSISTOR		
Q4201	25D59674/-X	TRANSISTOR		
Q4202	25D59674/-X	TRANSISTOR		
Q4301	25C2412KK1	TRANSISTOR		
Q5101	2SK3017R/-T	JUNCTION FET		
Q5201	2SK3017R/-T	JUNCTION FET		
Q6150	25D59674/-X	TRANSISTOR		
Q6151	25D59674/-X	TRANSISTOR		
Q6250	25D59674/-X	TRANSISTOR		
Q6251	25D59674/-X	TRANSISTOR		
Q6350	DT1144EKA-X	TRANSISTOR		
Q6351	DTA1144EKA-X	TRANSISTOR		
Q7351	25C2412KK1	TRANSISTOR		
Q7351	25C2412KK1	TRANSISTOR		UT,UB,UX U,UP,US
Q7352	25C2412KK1	TRANSISTOR		UT,UB,UX U,UP,US
Q7352	25C2412KK1	TRANSISTOR		UT,UB,UX U,UP,US
Q7353	2SA1037AKT146	TRANSISTOR		UT,UB,UX U,UP,US
Q7353	2SA1037AKT146	TRANSISTOR		UT,UB,UX U,UP,US
Q7354	DT1144EKA-X	DIGI. TRANSISTOR		UT,UB,UX U,UP,US
Q7354	DT1144EKA-X	DIGI. TRANSISTOR		UT,UB,UX U,UP,US
Q8351	2SA1037AKT146	CHIP TR.-C.M		
Q8352	2SA1037AKT146	CHIP TR.-C.M		
Q8353	25C2412KK1	TRANSISTOR		
Q8354	DT1144EKA-X	TRANSISTOR		
Q9001	25C271470/-X	TRANSISTOR	MAIN CLOCK	
Q9002	25C271470/-X	TRANSISTOR	MAIN CLOCK	
Q9003	25C2412KK1	TRANSISTOR		
Q9006	2SA1037AKT146	CHIP TRANSISTOR		
Q9010	DT1144TKA-X	TRANSISTOR		
Q9011	DT1144TKA-X	TRANSISTOR		
Q9012	25C2412KK1	TRANSISTOR	001KARA NO HENK	
Q9013	25C2412KK1	TRANSISTOR	001KARA NO HENK	
Q9014	DT1144EKA-X	TRANSISTOR		
R2501	NRS181J-271NY	MG. RESISTOR	J,C-EXCEPT	
R2504	NRS02J-101NY	MG RESISTOR	100 5% 1/10W	
R2505	NRS02J-101NY	MG RESISTOR	100 5% 1/10W	
R2506	NRS02J-121NY	MG RESISTOR	120 5% 1/10W	
R2507	NRS02J-151NY	MG RESISTOR	150 5% 1/10W	
R2508	NRS02J-221NY	MG RESISTOR	220 5% 1/10W	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C9024	NC521HJ-101AY	C. CAPACITOR	100PF 5% 50V	
C9026	NC521HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C9027	NC521HJ-680AY	C. CAPA. C.M	68PF 5% 50V	
C9031	NC821HK-103AY	C. CAPACITOR	-010MF 10% 50V	
C9034	NC521HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C9035	NC521HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C9036	NC521HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C9037	NC521HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C9038	NC521HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C9039	NC521HJ-102AY	C. CAPA. C.M	1000PF 5% 50V	
C9040	NC521HJ-102AY	C. CAPA. C.M	001KARA NO HENK	
D1901	QLD0024-001	LCD		
D2502	SLR-342VR-T15	LED	J,C-EXCEPT	
D2503	SLR-342VR-T15	LED	ACS ON/OFF(R)	
D2504	SLR-342MG-T15	LED	ACS IND (GR)	
D3361	1SS133	SI. DIODE		
D3362	MTZ3.9JB	Z. DIODE I/M		
D3363	1SS133	SI. DIODE		
D3791	U76-2B5A	Z. DIODE IDM		
D4301	1SS133	SI. DIODE		
D4302	1SS133	SI. DIODE		
D6501	MTZJ4.7A-T2	Z. DIODE		
D6502	MTZJ3.6A-T2	ZENER DIODE		
D6503	1SS133	SI. DIODE		
D7351	1SS133	SI. DIODE		UT,UB,UX U,UP,US
D7351	1SS133	SI. DIODE		UT,UB,UX U,UP,US
D7352	1SS133	SI. DIODE		UT,UB,UX U,UP,US
D7352	1SS133	SI. DIODE		UT,UB,UX U,UP,US
D7353	1SS133	SI. DIODE		UT,UB,UX U,UP,US
D7353	1SS133	SI. DIODE		UT,UB,UX U,UP,US
D8351	1SS133	SI. DIODE		
D8352	1SS133	SI. DIODE		
D8353	1SS133	SI. DIODE		
D8354	1SS133	SI. DIODE		
D9001	1SS133	SI. DIODE		
D9002	MTZ5.1JC	ZENER DIODE		
D9006	MA700A-T2	S.-B. DIODE		
D9007	1SR35-100	SI. DIODE	001KARA NO HENK FOR MICON	
IC001	VYH7237-002	IC HOLDER	ADDER	
IC401	BA15218F	IC C.M	VOL&TONE	
IC501	BH3852S	IC		
IC603	BA15218F	IC C.M		
IC751	BA15218N	IC		UT,UB,UX U,UP,US
IC751	BA15218N	IC		UT,UB,UX U,UP,US
IC831	BA15218F	IC C.M		
IC901	MM171603NA1	IC	SYSTEM MICON	
IC902	IC-PS19131-T	IC	RESET IC	
IC903	GP1U281X	IR DETECT UNIT		
J4301	GMS3120-020	JACK	AUX	
J6301	GNS0072-001	HEADPHONE JACK		
J7351	VMJ4040-001	JACK		UT,UB,UX U,UP,US
J7351	VMJ4040-001	JACK		UT,UB,UX U,UP,US
K9001	VQZ0048-009	INDUCTOR		
L4351	VQZ0048-009	INDUCTOR		
L4352	VQZ0048-009	INDUCTOR		

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R4260	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
R4261	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R4301	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R4341	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R4342	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R4343	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R5101	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R5102	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5104	NRSA02J-224NY	RES. C.M	220K 5% 1/10W	
R5201	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R5202	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5204	NRSA02J-224NY	RES. C.M	220K 5% 1/10W	
R5301	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R5302	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R5303	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R5304	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R5305	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R5306	NRSA02J-475NY	MG RESISTOR	4.7M 5% 1/10W	
R5307	NRSA02J-475NY	MG RESISTOR	4.7M 5% 1/10W	
R5308	NRSA02J-154NY	RES. C.M	150K 5% 1/10W	
R6150	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R6151	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R6152	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6153	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
R6154	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6155	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6157	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6158	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R6160	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R6161	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R6250	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R6251	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R6252	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6253	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
R6254	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6255	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6257	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6258	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R6260	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R6261	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R6335	NRSA02J-121NY	MG RESISTOR	120 5% 1/10W	
R6350	NRSA02J-121NY	MG RESISTOR	120 5% 1/10W	
R6351	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6353	NRSA02J-473NY	MG RESISTOR	4.7K 5% 1/10W	
R6354	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7351	NRS181J-221NY	MG RESISTOR	220 5% 1/8W	UT,UB,UX
R7351	NRS181J-221NY	MG RESISTOR	220 5% 1/8W	U,UP,US
R7352	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	UT,UB,UX
R7352	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	U,UP,US
R7353	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	UT,UB,UX
R7353	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	U,UP,US
R7354	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	UT,UB,UX
R7354	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	U,UP,US
R7355	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	UT,UB,UX
R7355	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	U,UP,US

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R2509	147A02J-271X	MG RESISTOR	270 5% 1/10W	
R2510	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
R2511	NRSA02J-561NY	MG RESISTOR	560 5% 1/10W	
R2512	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R2513	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R2514	NRS181J-391NY	MG RESISTOR	390 5% 1/8W	
R2515	NRS181J-471NY	MG RESISTOR	470 5% 1/8W	
R2516	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R2517	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R2518	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R2519	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R2520	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R2521	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R3361	NRSA02J-390NY	MG RESISTOR	39 5% 1/10W	
R3362	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R3363	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3571	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3572	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3573	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3574	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3575	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3791	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R3792	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R3793	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R3794	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R4141	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R4142	NRSA02J-303NY	RES. C.M	30K 5% 1/10W	
R4143	NRSA02J-224NY	RES. C.M	220K 5% 1/10W	
R4144	NRSA02J-473NY	MG RESISTOR	4.7K 5% 1/10W	
R4144	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	UT
R4144	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	U,UP,US
R4145	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	UB,UX
R4149	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R4150	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R4151	NRSA02J-154NY	RES. C.M	150K 5% 1/10W	
R4153	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R4155	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R4158	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R4159	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R4160	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
R4161	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R4241	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R4242	NRSA02J-303NY	RES. C.M	30K 5% 1/10W	
R4243	NRSA02J-224NY	RES. C.M	220K 5% 1/10W	
R4244	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	UT
R4244	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	U,UP,US
R4244	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	UB,UX
R4245	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R4249	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R4250	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R4251	NRSA02J-154NY	RES. C.M	150K 5% 1/10W	
R4253	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R4255	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R4258	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R4259	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R9013	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9014	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9015	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R9016	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R9017	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R9018	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R9019	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R9020	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R9021	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9022	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R9023	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9024	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9025	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9026	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9027	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9028	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9029	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9030	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9031	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9035	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9036	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9037	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9038	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9039	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9041	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R9042	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R9044	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9045	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R9046	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R9047	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9048	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9049	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9050	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9051	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9052	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9053	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9054	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9055	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9056	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9057	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9059	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9061	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R9062	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R9063	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R9065	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
R9066	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R9067	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R9068	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R9069	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9070	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9071	NRSA02J-243NY	MG RESISTOR	24K 5% 1/10W	
R9072	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R9073	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R7356	NRSA02J-564NY	MG RESISTOR	560K 5% 1/10W	UT,UB,UX
R7356	NRSA02J-564NY	MG RESISTOR	560K 5% 1/10W	U,UP,US
R7357	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	UT,UB,UX
R7357	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	U,UP,US
R7358	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	UT,UB,UX
R7358	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	U,UP,US
R7359	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	UT,UB,UX
R7359	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	U,UP,US
R7360	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	UT,UB,UX
R7360	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	U,UP,US
R7361	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	UT,UB,UX
R7361	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	U,UP,US
R7362	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	UT,UB,UX
R7362	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	U,UP,US
R7363	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	UT,UB,UX
R7363	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	U,UP,US
R7364	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	UT,UB,UX
R7364	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	U,UP,US
R7365	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	UT,UB,UX
R7365	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	U,UP,US
R7366	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	UT,UB,UX
R7366	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	U,UP,US
R8351	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R8352	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R8353	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R8354	NRSA02J-101NY	MG RESISTOR	100K 5% 1/10W	
R8355	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R8356	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R8357	NRSA02J-101NY	MG RESISTOR	100K 5% 1/10W	
R8358	NRSA02J-475NY	MG RESISTOR	4.7M 5% 1/10W	
R8359	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R8360	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R8361	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R8362	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R8363	NRSA02J-101NY	MG RESISTOR	100K 5% 1/10W	
R8364	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R8365	NRSA02J-101NY	MG RESISTOR	100K 5% 1/10W	
R8366	NRSA02J-224NY	RES - C-M	220K 5% 1/10W	
R8367	NRSA02J-221NY	MG RESISTOR	220K 5% 1/10W	
R8368	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R8369	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R8370	NRSA02J-275X	MG RESISTOR	2.7M 5% 1/10W	
R8371	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R8372	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9001	NRSA02J-681NY	MG RESISTOR	680K 5% 1/10W	
R9002	NRSA02J-681NY	MG RESISTOR	680K 5% 1/10W	
R9004	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9005	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R9006	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R9007	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9009	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9010	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9011	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9012	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	

BLOCK NO. 01

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
VR731	QVA46B-V03M	V RESISTOR		U,UP,US
VR901	GSM0626-001	R ENCODER		
VR902	GSM0626-001	R ENCODER		
X9001	VCK5000-002	CRYSTAL	SUB CLOCK	
X9002	QAX0410-001Z	CERA LOCK	MAIN CLOCK	

BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R9074	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9075	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9076	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9077	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R9078	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R9079	NRSA02J-243NY	MG RESISTOR	24K 5% 1/10W	
R9080	NRSA02J-243NY	MG RESISTOR	24K 5% 1/10W	
R9081	NRSA02J-912NY	MG RESISTOR	9.1K 5% 1/10W	
R9082	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9083	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R9084	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9085	NRSA02J-912NY	MG RESISTOR	9.1K 5% 1/10W	
R9086	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R9087	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9088	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R9089	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R9092	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9093	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	U,UP,US
R9094	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	UT,UB,UX
R9094	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R9096	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9096	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	E,EN,B
R9096	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	U,A,UP
R9096	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	US,UT,UB
R9096	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	UX
R9096	NRSA02J-104NY	MG RESISTOR	10K 5% 1/10W	EE
R9096	NRSA02J-104NY	MG RESISTOR	10K 5% 1/10W	EE
R9096	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	E
R9097	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R9098	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R9099	NRSA02J-103NY	MG RESISTOR	39K 5% 1/10W	J,C
R9099	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	US,UT,UB
R9099	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	UX
R9099	NRSA02J-104NY	MG RESISTOR	39K 5% 1/10W	U,A,UP
R9099	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	EE
R9099	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	EE
R9301	NRSA02J-473NY	MG RESISTOR	001KARA NO HENK	
R9302	NRSA02J-473NY	MG RESISTOR	001KARA NO HENK	
R9303	NRSA02J-103NY	MG RESISTOR	001KARA NO HENK	
R9304	NRSA02J-103NY	MG RESISTOR	001KARA NO HENK	
R9305	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
S2501	QSG04H11-V12Z	TACT SWITCH		
S2502	QSG04H11-V12Z	TACT SWITCH		
S2503	QSG04H11-V12Z	TACT SWITCH		
S2504	QSG04H11-V12Z	TACT SWITCH		
S2505	QSG04H11-V12Z	TACT SWITCH		
S2506	QSG04H11-V12Z	TACT SWITCH		
S2507	QSG04H11-V12Z	TACT SWITCH		
S2508	QSG04H11-V12Z	TACT SWITCH		
S2509	QSG04H11-V12Z	TACT SWITCH		
S2510	QSG04H11-V12Z	TACT SWITCH		
S2512	QSG04H11-V12Z	TACT SWITCH		
S2513	QSG04H11-V12Z	TACT SWITCH		
S2521	GSM0122-001	PUSH SWITCH		
VR731	QVA46B-V03M	V RESISTOR		UT,UB,UX

■ Tuner/Power P. C. B.

BLOCK NO. 02

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	1	VBP4M3B-007Z	P FILTER	BPF	EE
C	1	VBP4M3B-007Z	P FILTER	BPF	EE
C	1	VBP4M3B-007Z	P FILTER	BPF	E
C	3	QCSB1HK-6R8Y	CER-CAPACITOR-S	6.8PF 10% 50V	B
C	3	QCSB1HK-6R8Y	CER-CAPACITOR-S	6.8PF 10% 50V	B
C	3	QCSB1HK-2R2Y	CER-CAPACITOR-S	2.2PF 10% 50V	EE
C	3	QCSB1HK-2R2Y	CER-CAPACITOR-S	2.2PF 10% 50V	EE
C	6	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	B
C	7	QCSB1HJ-200Y	C CAPACITOR	20PF 5% 50V	B
C	7	QCSB1HJ-200Y	C CAPACITOR	20PF 5% 50V	EE
C	7	QCSB1HJ-680Y	C CAPACITOR	68PF 5% 50V	EE
C	7	QCSB1HJ-680Y	C CAPACITOR	68PF 5% 50V	EE
C	9	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	E
C	9	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	EE
C	9	QCSB1HJ-3R9Y	C CAPACITOR	3.9PF 10% 50V	EE
C	9	QCSB1HJ-3R9Y	C CAPACITOR	3.9PF 10% 50V	EE
C	13	QCC11EM-223V	C CAPACITOR	.022MF 20% 25V	E
C	13	QCC11EM-223V	C CAPACITOR	.022MF 20% 25V	EE
C	13	QCC11EM-223V	C CAPACITOR	.022MF 20% 25V	EE
C	13	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	EE
C	13	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	EE
C	16	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	A
C	17	QCSB1HJ-200Y	CER-CAPACITOR-S	SW	UT,UB,UX
C	17	QCSB1HJ-200Y	CER-CAPACITOR-S	SW	U,UP,US
C	21	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	UX
C	22	QFP41HJ-431	PP-CAPACITOR	4.30PF 5% 50V	U,UP,UB
C	23	QCT30CH-120Y	C CAPACITOR	12PF 5% 50V	A,UP
C	23	QCT30CH-4R7Y	C CAPACITOR	4.7PF 5% 50V	E,EN,B
C	23	QCT30CH-4R7Y	C CAPACITOR	4.7PF 5% 50V	E,EN,B
C	23	QCT30CH-4R7Y	C CAPACITOR	4.7PF 5% 50V	EE
C	23	QCT30CH-4R7Y	C CAPACITOR	4.7PF 5% 50V	A
C	24	QCSB1HJ-620Y	CER-CAPACITOR-S	62PF 5% 50V	UT
C	24	QCSB1HJ-620Y	CER-CAPACITOR-S	62PF 5% 50V	A,US,UP
C	25	QCT1HM-104Z	E-CAPACITOR	.10MF 20% 50V	EE
C	25	QCT1HM-104Z	AL E-CAPACITOR	.10MF 20% 50V	A
C	25	QFLG1HJ-223ZM	M CAPACITOR	.10MF 20% 50V	U,UB,UX
C	25	QFLM1HJ-223Y	M CAPACITOR	.10MF 20% 50V	UT
C	25	QFLM1HJ-223Y	M CAPACITOR	.10MF 20% 50V	A,US,UP
C	26	QFP31HJ-181ZM	PP-CAPACITOR	180PF 5% 50V	EE
C	26	QFLM1HJ-472Z	MYLAR CAPACITOR	4700PF 5% 50V	A
C	26	QFLM1HJ-472Z	MYLAR CAPACITOR	4700PF 5% 50V	U,UP,UT
C	26	QFLM1HJ-472Z	MYLAR CAPACITOR	4700PF 5% 50V	U,UB,UX
C	27	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	E,EN,B
C	27	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	E,EN,B
C	28	QCS11HJ-150	CER-CAPACITOR-S	15PF 5% 50V	E,EN,B
C	31	QCVB1CN-102	C CAPACITOR	1000PF 10% 50V	EE
C	32	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	EE
C	32	QET41AM-107	E CAPACITOR	100MF 20% 10V	E,EN,B
C	35	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	E,EN,B
C	36	QET41HM-475	E CAPACITOR	=R19	EE
C	37	QCVB1HK-102	E CAPACITOR	1000PF 10% 50V	EE,UP
C	40	QET41HM-105	E CAPACITOR	UB,UX EXCEPT	U,US
C	41	QET41CM-106	E CAPACITOR	10MF 20% 16V	UT,UB,UX

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	42	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	E,EN,B
C	42	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	UT
C	42	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	UX,UP,US
C	42	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	U,A,UB
C	42	QCC11EM-473V	C CAPACITOR	.047MF 20% 25V	EE
C	44	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	EE
C	45	QET41HM-474	E CAPACITOR	.47MF 20% 50V	EE
C	47	QCC11EM-123V	C CAPACITOR	.012MF 20% 25V	EE
C	48	QCC11EM-123V	C CAPACITOR	.012MF 20% 25V	EE
C	49	QET1HM-104Z	E CAPACITOR	.10MF 20% 50V	B
C	50	QET1HM-104Z	E CAPACITOR	.10MF 20% 50V	EE
C	51	QCVB1HK-681Y	C CAPACITOR	680PF 10% 50V	E,EN,B
C	51	QCVB1HK-681Y	C CAPACITOR	680PF 10% 50V	C
C	51	QCVB1HK-331Y	CER-CAPACITOR-S	330PF 10% 50V	UB,UX
C	51	QCVB1HK-331Y	CER-CAPACITOR-S	330PF 10% 50V	UP,US,UT
C	51	QCVB1HK-331Y	CER-CAPACITOR-S	330PF 10% 50V	U,J,A
C	51	QCVB1HK-331Y	C CAPACITOR	330PF 10% 50V	EE
C	51	QCVB1HK-681Y	C CAPACITOR	680PF 10% 50V	EE
C	52	QCVB1HK-102	C CAPACITOR	1000PF 10% 50V	EE
C	56	QCVB1HK-102	C CAPACITOR	1000PF 10% 50V	EE
C	56	QCVB1HK-102	C CAPACITOR	1000PF 10% 50V	EE
C	61	QET41AM-107	E CAPACITOR	100MF 20% 10V	EE
C	62	QCT30CH-120Y	C CAPACITOR	12PF 5% 50V	EE
C	63	QCVB1HK-102	C CAPACITOR	1000PF 10% 50V	EE
C	64	QCT30CH-120Y	C CAPACITOR	12PF 5% 50V	EE
C	65	QCVB1HK-102	C CAPACITOR	1000PF 10% 50V	EE
C	66	QCVB1HK-151Y	C CAPACITOR	150PF 10% 50V	EE
C	69	QET1HM-222Y	C CAPACITOR	2200PF 20% 16V	EE
C	70	QET1HM-222Y	E CAPACITOR	2.2MF 20% 50V	EE
C	71	QET1HM-335Z	E CAPACITOR	3.3MF 20% 50V	EE
C	75	QCVB1HK-6R8Y	CER-CAPACITOR-S	SW	A
C	75	QCVB1HK-6R8Y	CER-CAPACITOR-S	SW	UT,UB,UX
C	75	QCVB1HK-6R8Y	C CAPACITOR	SW	U,UP,US
C	76	QCC11EM-103V	C CAPACITOR	.010MF 20% 25V	A
C	76	QCC11EM-103V	C CAPACITOR	.010MF 20% 25V	UT,UB,UX
C	76	QCC11EM-103V	C CAPACITOR	.010MF 20% 25V	U,UP,US
C	77	QCC11EM-103V	C CAPACITOR	.010MF 20% 25V	EE
C	77	QCC11EM-103V	C CAPACITOR	1000PF 10% 50V	A
C	78	QCVB1HK-5R6Y	CER-CAPACITOR-S	5.6PF 10% 50V	UT,UB,UX
C	78	QCVB1HK-5R6Y	CER-CAPACITOR-S	5.6PF 10% 50V	U,UP,US
C	78	QCVB1HK-5R6Y	CER-CAPACITOR-S	5.6PF 10% 50V	EE
CF	1	QAX0403-001	C FILTER		
CF	3	VC11722-117Z	C FILTER		
CF	4	QAX0409-001	CERA LOCK		
CN	1	QGF1205C1-09	CONNECTOR	TO MAIN	
CN191		QGA2501C4-09	CONNECTOR		
CN192		VMC0229-P04	CONNECTOR		
CN193		QGA2501C4-05	CONNECTOR		
CN194		QGA7901C1-02	CONNECTOR		
CN194		QGA7901C1-04	CONNECTOR		
CN194		QGA7901C1-04	CONNECTOR		
CN194		QGA7901C1-02	CONNECTOR		
CN195		QGA3901C1-02	CONNECTOR		
CN602		VMC0163-R13	CONNECTOR		
CN603		QGB1214K1-10S	CONNECTOR		
CN604		QGB1214J1-10S	CONNECTOR		
C1901		QFLC1HJ-683ZM	M CAPACITOR	.068MF 5% 50V	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C6319	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C6320	QET41EM-106	E CAPACITOR	10MF 20% 25V	
C6321	QET41CM-106	E CAPACITOR	10MF 20% 16V	
C6350	QEK61CM-107	E CAPACITOR	100MF 20% 16V	
C6351	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
C7301	QET41CM-107	E CAPACITOR	100MF 20% 16V	
C7302	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
C7303	QCSB1HK-3R3Y	C. CAPACITOR	3.3PF 10% 50V	
C7305	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C7306	QFVF1HJ-274Z	TF CAPACITOR	.27MF 5% 50V	
C7307	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C7308	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
C7309	QET41CM-107	E CAPACITOR	100MF 20% 16V	
C7310	QFLC1HJ-153ZM	M CAPACITOR	.015MF 5% 50V	
C7311	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C7312	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C7313	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C7314	QET41CM-107	E CAPACITOR	100MF 20% 16V	
C7316	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C7317	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C7318	QET41CM-107	E CAPACITOR	100MF 20% 16V	
C7319	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C7320	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
C7321	QFVF1HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
C7322	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
C7323	QET41CM-106	E CAPACITOR	10MF 20% 16V	
C7324	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C8101	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V	
C8102	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V	
C8103	QET41EM-476	E CAPACITOR	47MF 20% 25V	
C8201	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V	
C8202	QFLM1HJ-563Z	M CAPACITOR	.056MF 5% 50V	
C8203	QET41EM-476	E CAPACITOR	47MF 20% 25V	
C8301	QET41CM-476	E CAPACITOR	47MF 20% 16V	
C8303	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C8322	QET41CM-476	E CAPACITOR	47MF 20% 16V	
D 1	SVC203SPA-JV-T	VARI-CAPA DIODE		B
D 1	SVC203SPA-JV-T	VARI-CAPA DIODE		EE
D 1	KV1370N-T	VARI CAP		EE
D 1	KV1370N-T	VARI-CAP DIODE		EE
D 2	KV1370N-T	VARI-CAP DIODE		EE
D 2	KV1370N-T	VARI CAP		EE
D 2	SVC203SPA-JV-T	VARI-CAPA DIODE		EE
D 2	SVC203SPA-JV-T	VARI-CAPA DIODE		B
D 5	1SS133	SI DIODE		
D 6	1SS133	SI DIODE		
D 8	SVC344-AA	VARI CAP		EE
D 10	TVC344-T	VARI CAP		E,EN,B
D 10	TVC344-T			
D 12	DSK10C-E	DIODE		
D 1901	D5S8A20-4101	SI DIODE		
D1902	6A10E2	SI DIODE		
D3191	1SS133	SI DIODE		
D3192	MTZ7.5JA	7-DIODE 1.M		
D3193	RB100A	DIODE		

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C1902	QFLC1HJ-683ZM	M CAPACITOR	.068MF 5% 50V	
C1903	QFLC1HJ-683ZM	M CAPACITOR	.068MF 5% 50V	
C1904	QFLC1HJ-683ZM	M CAPACITOR	.068MF 5% 50V	
C3192	QET41EM-107	E CAPACITOR	100MF 20% 25V	
C3193	QCB81HK-101Y	C. CAPACITOR	100PF 10% 50V	
C3301	QET41EM-107	E CAPACITOR	100MF 20% 25V	
C3301	QCVB1CM-103Y	C CAPACITOR	.010MF 30% 16V	
C3302	QCB81HK-221Y	C. CAPACITOR	220PF 10% 50V	
C3303	QET41CM-107	E CAPACITOR	100MF 20% 16V	
C3391	QCVB1CM-103Y	C CAPACITOR	.010MF 30% 16V	
C3492	QCB81HK-221Y	C. CAPACITOR	220PF 10% 50V	
C3493	QET41CM-107	E CAPACITOR	100MF 20% 16V	
C3901	QET41AN-107	E CAPACITOR	100MF 20% 10V	
C3902	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V	
C5308	QER61HM-474Z	E CAPACITOR	.47MF 20% 50V	
C6101	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
C6102	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
C6103	QET41EM-107	E CAPACITOR	100MF 20% 25V	
C6104	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C6105	QET41EM-476	E CAPACITOR	47MF 20% 25V	
C6106	QET41EM-108	E CAPACITOR	1000MF 20% 25V	
C6107	QET1V06-226Z	E CAPACITOR	1.0MF 20% 50V	
C6150	QER41HM-105	E CAPACITOR	150PF 5% 50V	
C6151	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
C6152	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
C6153	QER41HM-107	E CAPACITOR	100MF 20% 10V	
C6201	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
C6202	QCB81HK-151Y	C. CAPACITOR	150PF 10% 50V	
C6203	QET41EM-107	E CAPACITOR	100MF 20% 25V	
C6204	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C6205	QET41EM-476	E CAPACITOR	47MF 20% 25V	
C6206	QET41EM-108	E CAPACITOR	1000MF 20% 25V	
C6207	QET1V06-226Z	E CAPACITOR	1.0MF 20% 50V	
C6250	QER41HM-105	E CAPACITOR	150PF 5% 50V	
C6251	NCS21HJ-151AY	C. CAPACITOR	150PF 5% 50V	
C6252	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
C6253	QER41HM-107	E CAPACITOR	100MF 20% 10V	
C6301	QET41EM-227	E CAPACITOR	220MF 20% 25V	
C6302	QET41EM-106	E CAPACITOR	10MF 20% 25V	
C6303	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C6304	QFVF1HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
C6305	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C6306	QET41AN-227	E CAPACITOR	220MF 20% 10V	
C6307	QET41EM-106	E CAPACITOR	10MF 20% 25V	
C6308	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
C6309	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
C6310	QCB81HK-101Y	C. CAPACITOR	100PF 10% 50V	
C6311	QET41CM-106	E CAPACITOR	10MF 20% 16V	
C6312	QET41EM-227	E CAPACITOR	220MF 20% 25V	
C6313	QCB81HK-101Y	C. CAPACITOR	100PF 10% 50V	
C6314	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C6315	QETM1EM-688	E CAPACITOR	6800MF 20% 25V	
C6316	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C6317	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C6318	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	

BLOCK NO. 021111

BLOCK NO. 021111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D3194	MT77-5JA	Z-DIODE I-M		
	D3195	1SS133	SI DIODE		
	D3196	1SS133	SI DIODE		
	D3301	1SS133	SI DIODE		
	D3302	MT79-1JA	ZENER DIODE		
	D3491	1SS133	SI DIODE		
	D3492	MT79-1JA	ZENER DIODE		
	D3493	1SS133	SI DIODE		
	D3901	MT78-2JB	DIODE		
	D6301	1SS133	SI DIODE		
	D6302	1SS133	SI DIODE		
	D6303	1SS133	SI DIODE		
	D6304	1SS133	SI DIODE		
	D7301	1SS133	SI DIODE		
	D7302	1SS133	SI DIODE		
	D7303	1SS133	SI DIODE		
	D7304	1SS133	SI DIODE		
	D7305	1SS133	SI DIODE		
	D7306	1SS133	SI DIODE		
	D7307	MT74-3JB	ZENER DIODE		
	D8301	MT74-3JB	ZENER DIODE		
	F1901	OMF51E2-1R25	FUSE		U,UB,UX
	F1901	OMF51E2-1R25	FUSE		UP,US,UT
	F1901	OMF51A2-1R25-J1	FUSE		J,C
	F1903	OMF007-6R3J1	FUSE, BATT		J,C
	IC 2	TA2008AN	IC		
	IC 3	LC72136N	IC		
	IC301	TA8233H	IC		
	IC390	TA78DL06S	IC		
	IC601	TA8223K	IC	<111>	
	IC701	BA15218N	IC		
	IC702	BA15218N	IC		
	IC703	BA15218N	IC		
	IC704	BA15218N	IC		
	IC801	BA15218N	IC		
	J1901	QNC0043-001	AC SOCKET		J,C
	J1901	QNC0042-001	AC SOCKET		
	J1902	QMA431B-V01	FILM CAPACITOR		
	L 1	Q0R0773-001	OSC COIL	FM OSC	EE
	L 1	Q0R0773-001	OSC COIL	FM OSC	EE
	L 1	VGF1820-019	OSC COIL	FM OSC	B
	L 1	VGF1820-019	OSC COIL	FM OSC	
	L 2	Q0R0781-001	RF COIL	FM RF	EE
	L 2	VQC1505-002T	RF COIL	FM RF	B
	L 2	VQC1505-002T	RF COIL	FM RF	
	L 2	Q0R0781-001	RF COIL	FM RF	EE
	L 3	VQB008A-502	BAR ANTENA	MW RF	U,A,UB
	L 3	VQB008B-503	BAR ANTENA	MW RF	
	L 3	VQB060M-502	BAR ANTENA	MW RF	J,C
	L 3	VQB008A-502	BAR ANTENA	MW RF	UP,US,UT
	L 3	VQB008A-502	BAR ANTENA	MW RF	UX
	L 4	Q0R0723-001	OSC COIL(MW)	MW OSC	
	L 6	VGL7U02-502	OSC COIL(LW)	LW OSC	EE
	L 6	VGL7U02-502	OSC COIL(LW)	LW OSC	E,EN,B
	L 6	VGS7U01-308	OSC COIL(LW)	LW OSC	A

BLOCK NO. 021111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	L 6	VGS7U01-308	OSC COIL(LW)	LW OSC	UP,US,UT
	L 6	VGS7U01-308	OSC COIL(LW)	LW OSC	U,UB,UX
	L 7	VGP0018-221	INDUCTOR		
	L 12	V03047-16	INDUCTOR		
	L 13	V03047-6L	COIL	SW	A
	L 13	V03047-6L	COIL	SW	U,UB,UX
	L 13	V03047-6L	COIL	SW	UP,US,UT
	L3191	Q0L28AK-101	CHOKE COIL		
	Q 2	2SC2668(O)	TR TAPE	LW	E,EN,B
	Q 2	2SC2668(O)	TR TAPE	LW	EE
	Q 3	2SC2668(O)	TR TAPE	J,C EXCEPT	
	Q 4	2SA1175	TRANSISTOR		EN
	Q 4	2SA1175	TRANSISTOR		E,EN,B
	Q 5	2SC2668(O)	TRANSISTOR		EE
	Q 5	2SC2668(O)	TRANSISTOR		E,EN,B
	Q 6	2SC2668(O)	TR TAPE		UP,US,UT
	Q 6	2SC2668(O)	TR TAPE		E,EN,B
	Q 6	2SC2668(O)	TR TAPE		U,A,EE
	Q 14	DTA114YS	TRANSISTOR		EE
	Q 14	DTA114YS	TRANSISTOR		E,EN,B
	Q 16	2SC2668(O)-T	TRANSISTOR	FM/ SW	UP,US,UT
	Q 16	2SC2668(O)-T	TRANSISTOR	FM/ SW	A
	Q 16	2SC2668(O)-T	TRANSISTOR	FM/ SW	U,UB,UX
	Q 17	DTA114YS	D. TRANSISTOR		UT
	Q 17	DTA114YS	D. TRANSISTOR		UX,UP,US
	Q 17	DTA114YS	D. TRANSISTOR		U,A,UB
	Q3191	DTA141TSA-T	D. TRANSISTOR		
	Q3192	2SA1359/OY/	TRANSISTOR		
	Q3193	DTA114TS	D. TRANSISTOR		
	Q3194	2SC2785	TRANSISTOR		
	Q3195	2SA1175	TRANSISTOR		
	Q3196	2SA934(O,R)	TRANSISTOR		
	Q3197	2SC2785	TRANSISTOR		
	Q3198	DTA141TSA-T	D. TRANSISTOR		
	Q3301	2SA1175	TRANSISTOR		
	Q3302	2SA1359/OY/	T-R		
	Q3303	DTA141TSA-T	D. TRANSISTOR		
	Q3304	DTA141TSA-T	D. TRANSISTOR		
	Q3305	2SC2785	TRANSISTOR		
	Q3306	2SC2785	TRANSISTOR		
	Q3491	2SA1175	TRANSISTOR		
	Q3492	2SB1565(E,F)	TRANSISTOR		
	Q3493	DTA141TSA-T	D. TRANSISTOR		
	Q3494	DTA141TSA-T	D. TRANSISTOR		
	Q3495	2SC2785	TRANSISTOR		
	Q3496	2SC2785	TRANSISTOR		
	Q6101	2SC2001(L,K)	TRANSISTOR		
	Q6201	2SC2001(L,K)	TRANSISTOR		
	Q6301	2SA952(L,K)	TRANSISTOR		
	Q6302	2SC2785	TRANSISTOR		
	Q6303	DTA114ES	D. TRANSISTOR	MUTE DRIV	
	Q6304	2SC2001(L,K)	TRANSISTOR		
	Q6305	DTA114ESA-T	D. TRANSISTOR		
	Q6306	DTA114ESA-T	D. TRANSISTOR		
	Q6307	DTA114ESA-T	D. TRANSISTOR		

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 42	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R 42	QCC11EM-473V	C RESISTOR	.047MF 20% 25V	
R 44	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R 45	QRD161J-102	C RESISTOR	J-C EXCEPT	
R 46	QRD161J-103	C RESISTOR	10K 5% 1/4W	J-C
R 47	QRD161J-221	C RESISTOR	220 5% 1/4W	
R 47	QRD161J-471	C RESISTOR	470 5% 1/4W	
R 48	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 51	QRD161J-102	C RESISTOR	J-C EXCEPT	
R 51	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R 54	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R 55	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R 56	QRD167J-332	C RESISTOR	3.3K 5% 1/4W	
R 57	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 59	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 60	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 61	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 64	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 66	QRD161J-103	C RESISTOR	10K 5% 1/4W	UT
R 66	QRD161J-103	C RESISTOR	10K 5% 1/4W	U,UB,UX
R 71	QRD161J-472	C RESISTOR	SW	UX,UP,US
R 71	QRD161J-472	C RESISTOR	SW	UT
R 72	QRD161J-473	C RESISTOR	SW	U,A,UB
R 72	QRD161J-473	C RESISTOR	SW	U,A,UB
R 73	QWY124-5.0Y	C RESISTOR	AC/DC	UT
R1901	QRD161J-103	C RESISTOR	2.2 5% 1/4W	A
R3192	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R3193	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R3194	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R3195	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R3196	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R3197	ERT-027HL153T	THEMISTOR		
R3198	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R3199	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R3200	QRD161J-123	C RESISTOR	12K 5% 1/4W	
R3201	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R3202	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R3203	QRD161J-222	C RESISTOR	10K 5% 1/4W	
R3204	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R3301	QRD161J-471	C RESISTOR	470 5% 1/4W	
R3302	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
R3303	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
R3304	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
R3305	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R3306	QRD167J-682	C RESISTOR	6.8K 5% 1/4W	
R3307	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R3308	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R3309	QRD161J-681	C RESISTOR	680 5% 1/4W	
R3310	QRD161J-681	C RESISTOR	680 5% 1/4W	
R3311	QRD161J-681	C RESISTOR	680 5% 1/4W	
R3312	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q6308	DTC114ESA-T	D TRANSISTOR		
Q7301	25C2785	TRANSISTOR		
Q7302	25C2785	TRANSISTOR		
Q7303	25K105/EEF/-T	FET		
Q8101	25C2785	TRANSISTOR		
Q8201	25C2785	TRANSISTOR		
R 1	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R 2	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R 3	QRD161J-270	C RESISTOR	27 5% 1/4W	EE
R 3	QRD161J-270	C RESISTOR	27 5% 1/4W	EE
R 3	QRD167J-4R7	C RESISTOR	4.7 5% 1/4W	
R 7	QRD167J-4R7	C RESISTOR	4.7 5% 1/4W	B
R 7	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R 9	QRD161J-103	C RESISTOR	10K 5% 1/4W	EE
R 9	QRD161J-103	C RESISTOR	10K 5% 1/4W	B
R 9	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 9	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	B
R 12	QRD161J-472	C RESISTOR	J-C EXCEPT	
R 13	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R 14	QRD161J-103	C RESISTOR	10K 5% 1/4W	EE
R 14	QRD161J-103	C RESISTOR	10K 5% 1/4W	E,EN,B
R 15	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	EE
R 16	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	E,EN,B
R 16	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	E,EN,B
R 17	QRD161J-104	C RESISTOR	100K 5% 1/4W	EE
R 18	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	E,EN,B
R 19	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	EE
R 20	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	E,EN,B
R 21	QRD161J-103	C RESISTOR	10K 5% 1/4W	EE
R 21	QRD161J-103	C RESISTOR	10K 5% 1/4W	E,EN,B
R 23	QWY124-5.0Y	C RESISTOR	5.1K 5% 1/4W	E,EN,B
R 28	QRD161J-512	C RESISTOR	100K 5% 1/4W	
R 30	QRD161J-104	C RESISTOR	12K 5% 1/4W	E,EN,B
R 31	QRD161J-123	C RESISTOR	12K 5% 1/4W	EE
R 33	QRD161J-101	C RESISTOR	100 5% 1/4W	
R 34	QRD161J-393	C RESISTOR	39K 5% 1/4W	U,J,A,C
R 34	QRD161J-183	C RESISTOR	1.8K 5% 1/4W	E
R 34	QRD161J-183	C RESISTOR	18K 5% 1/4W	EN,B,EE
R 34	QRD161J-393	C RESISTOR	39K 5% 1/4W	US,UT
R 35	QRD161J-393	C RESISTOR	39K 5% 1/4W	UB,UX,UP
R 35	QRD161J-183	C RESISTOR	18K 5% 1/4W	EE
R 35	QRD161J-183	C RESISTOR	18K 5% 1/4W	E,EN,B
R 35	QRD161J-393	C RESISTOR	39K 5% 1/4W	US,UT
R 35	QRD161J-393	C RESISTOR	39K 5% 1/4W	UB,UX,UP
R 35	QRD161J-393	C RESISTOR	39K 5% 1/4W	U,J,A,C
R 36	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	EE
R 36	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	E,EN,B
R 40	QRD161J-560	C RESISTOR	56 5% 1/4W	
R 47	QRD161J-222	C RESISTOR	J-C EXCEPT	
R 41	QRD161J-222	C RESISTOR		

BLOCK NO. 02

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R6320	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
R6321	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
R6322	QRD161J-123	C RESISTOR	12K 5% 1/4W	
R6325	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R7301	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R7303	QRD161J-101	C RESISTOR	100 5% 1/4W	
R7305	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R7307	QRD161J-394	C RESISTOR	390K 5% 1/4W	
R7308	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R7309	QRD161J-333	C RESISTOR	33K 5% 1/4W	
R7310	QRD161J-101	C RESISTOR	100 5% 1/4W	
R7311	QRD161J-184	C RESISTOR	180K 5% 1/4W	
R7312	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R7313	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R7314	QRD161J-273	C RESISTOR	27K 5% 1/4W	
R7316	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R7317	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R7318	QRD161J-101	C RESISTOR	100 5% 1/4W	
R7319	QRD161J-202	C RESISTOR	2.0K 5% 1/4W	
R7320	QRD161J-221	C RESISTOR	220 5% 1/4W	
R7321	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R7322	QRD161J-563	C RESISTOR	56K 5% 1/4W	
R7323	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R7324	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R7325	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R7326	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R7327	QRD161J-352	C RESISTOR	1.0M 5% 1/4W	
R7328	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R7329	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R7330	QRD161J-392	C RESISTOR	3.9K 5% 1/4W	
R7331	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R7332	QRD161J-101	C RESISTOR	100 5% 1/4W	
R7333	QRD161J-273	C RESISTOR	27K 5% 1/4W	
R7334	QRD161J-243	C RESISTOR	24K 5% 1/4W	
R7336	QRD161J-243	C RESISTOR	24K 5% 1/4W	
R7338	QRD161J-823	C RESISTOR	82K 5% 1/4W	
R7339	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R7341	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R7342	QRD161J-333	C RESISTOR	33K 5% 1/4W	
R7343	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R7344	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R8101	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R8102	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R8103	QRD161J-392	C RESISTOR	3.9K 5% 1/4W	
R8104	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R8105	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R8111	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R8201	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R8202	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R8203	QRD161J-392	C RESISTOR	3.9K 5% 1/4W	
R8204	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R8205	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R8207	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R8211	QRD161J-473	C RESISTOR	47K 5% 1/4W	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R3313	QRD161J-471	C RESISTOR	470 5% 1/4W	
R3314	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R3315	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R3316	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R3491	QRD161J-471	C RESISTOR	470 5% 1/4W	
R3492	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
R3493	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
R3494	QRD161J-1R0	C RESISTOR	1.0 5% 1/4W	
R3495	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R3496	QRD161J-682	C RESISTOR	6.8K 5% 1/4W	
R3497	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R3498	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R3499	QRD161J-681	C RESISTOR	680 5% 1/4W	
R3500	QRD161J-681	C RESISTOR	680 5% 1/4W	
R3501	QRD161J-681	C RESISTOR	680 5% 1/4W	
R3502	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R3503	QRD161J-471	C RESISTOR	470 5% 1/4W	
R3504	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R3505	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R3506	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R3507	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R3508	QRD161J-682	C RESISTOR	6.8K 5% 1/4W	
R3901	GRZ0077-4R7X	F RES 1/M	4.7 1/0W	
R3901	GRE141J-5R6	F RES 1/M	4.7 1/0W	J+C
R5107	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R5207	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R6101	QRD161J-273	C RESISTOR	27K 5% 1/4W	
R6102	QRD161J-121	C RESISTOR	120 5% 1/4W	
R6103	QRD161J-123	C RESISTOR	12K 5% 1/4W	
R6104	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
R6105	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R6201	QRD161J-273	C RESISTOR	27K 5% 1/4W	
R6202	QRD161J-121	C RESISTOR	120 5% 1/4W	
R6203	QRD161J-123	C RESISTOR	12K 5% 1/4W	
R6204	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
R6205	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R6301	QRD161J-332	C RESISTOR	3.3K 5% 1/4W	
R6302	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R6303	QRD161J-562	C RESISTOR	5.6K 5% 1/4W	
R6304	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R6305	QRD161J-622	C RESISTOR	6.2K 5% 1/4W	
R6306	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
R6307	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R6308	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R6309	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R6310	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R6311	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R6312	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R6313	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R6314	QRD161J-391	C RESISTOR	390 5% 1/4W	
R6315	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R6316	QRD161J-391	C RESISTOR	390 5% 1/4W	
R6317	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R6318	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	
R6319	QRD161J-2R2	C RESISTOR	2.2 5% 1/4W	

CD P. C. B.

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 604	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
C 605	QET41EM-106	E CAPACITOR	10MF 20% 25V	
C 606	QCG81HK-102	C CAPACITOR	1000PF 10% 50V	
C 607	QCG81HK-102	C CAPACITOR	1000PF 10% 50V	
C 608	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C 609	QGBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
C 610	QFCL1HJ-273ZM	M CAPACITOR	-0.27MF 5% 50V	
C 611	QX8B1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C 612	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C 613	QGBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
C 614	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C 615	QCFB1HZ-223	C CAP I M	.022MF +80:-20% 50V	
C 616	QCFB1HZ-223	C CAP I M	.022MF +80:-20% 50V	
C 617	QCFB1HZ-223	C-CAP I M	.022MF +80:-20% 50V	
C 618	QX8B1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C 619	QGBB1HK-271Y	C CAPACITOR	270PF 10% 50V	
C 620	QGS11HJ-470	C CAPACITOR	47PF 5% 50V	
C 621	QGBB1HK-821Y	C CAPACITOR	820PF 10% 50V	
C 622	QET41AM-476	E CAPACITOR	47MF 20% 10V	
C 623	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C 628	QGC11EM-473V	C CAPACITOR	-.047MF 20% 25V	
C 629	QET41AM-107	E CAPACITOR	100MF 20% 10V	
C 631	QET41AM-477	E CAPACITOR	470MF 20% 10V	
C 632	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
C 651	QGS11HJ-120	C CAPACITOR	12PF 5% 50V	
C 652	QGS11HJ-150	C CAPACITOR	15PF 5% 50V	
C 653	QCFB1HZ-223	C CAP I M	.022MF +80:-20% 50V	
C 655	QGC11EM-473V	C CAPACITOR	.047MF 20% 25V	
C 661	QGBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
C 662	QCFB1HZ-223	C CAP I M	.022MF +80:-20% 50V	
C 663	QFCL1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
C 664	QCFB1HZ-223	C CAP I M	.022MF +80:-20% 50V	
C 665	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C 671	QX8B1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C 672	QX8B1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C 673	QET41AM-227	E CAPACITOR	220MF 20% 10V	
C 674	QCFB1HZ-223	C CAP I M	.022MF +80:-20% 50V	
C 675	QGBB1HK-102	C CAPACITOR	AG-DG	
C 676	QGBB1HK-102	C CAPACITOR	AG-DG	
C 691	QGBB1HK-151Y	C CAPACITOR	DENGEN NOISE	
C 692	QGBB1HK-151Y	C CAPACITOR	DENGEN NOISE	
C 693	QGBB1HK-151Y	C CAPACITOR	DENGEN NOISE	
C 694	QGBB1HK-151Y	C CAPACITOR	DENGEN NOISE	
C 698	QGBB1HK-102	C CAPACITOR	1000PF 10% 50V	
CN601	QGF1008F1-15	21-41 CONNECTOR	TO RF	
CN602	QJK004-060601	SIN CL C-B WIRE	TO MOTOR	
CN603	QGF1205F1-07	CONNECTOR	TO AUDIO	
CN604	VMC0163-R11	CONNECTOR	TO MICRON	
CN605	VMC0041-003	CONNECTOR	TO DIGITAL OUT	
D 661	1SS133	SI DIODE		
IC601	AN8806SB	IC	RF AMP DRIVER	
IC602	BA8897FP-W	IC	1CHIP PROCESSOR	
IC603	MN35510	IC		
Q 601	2SA952(L,K)	TRANSISTOR		
Q 631	2SA952(L,K)	TRANSISTOR		

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R8301	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R8302	QRD161J-474	C RESISTOR	470K 5% 1/4W	
R8321	QRD161J-101	C RESISTOR	100 5% 1/4W	
R8327	QRD161J-224	C RESISTOR	220K 5% 1/4W	
S1901	QSW0555-001	VOLTAGE_SELECTOR		U,UP,US
S1901	QSW0555-001	VOLTAGE_SELECTOR		UT,UB,UX
T 2	VQF7A21-112	IFT		
TC 2	QAT3722-2002M	T CAPACITOR	MW RF	
TC 3	QAT3722-100M	T CAPACITOR	LW RF	UT,UB,UX
TC 3	QAT3722-100M	T CAPACITOR	LW RF	U,UP,US
TC 3	QAT3722-3003M	T CAPACITOR	LW RF	EE
TC 3	QAT3722-3003M	T CAPACITOR	LW RF	E,EN,B
TP 1	VMZ0015-002	POST PIN	TO ROD ANT	
TP 2	VMZ0015-002	POST PIN	GND	
WC 1	VMZ0015-005	POST PIN		
X 1	QAX0402-001	CRYSTAL		
Z1901	EMG7331-003Z	FUSE CLIP I.M	FOR F1901	U,UP,US
Z1901	EMG7331-003Z	FUSE CLIP I.M	FOR F1901	UT,UB,UX
Z1901	EMG7331-003Z	FUSE CLIP I.M	FOR F1901	J,C
Z1901	EMG7331-003Z	FUSE CLIP I.M	FOR F1901	J,C
Z1901	EMG7331-003Z	FUSE CLIP I.M	FOR F1901	U,UP,US
Z1901	EMG7331-003Z	FUSE CLIP I.M	FOR F1901	UT,UB,UX
Z1901	EMG7331-003Z	FUSE CLIP I.M	FOR F1901	J,C
Z1902	EMG7331-003Z	FUSE CLIP I.M	FOR F1902	
Z1933	EMG7331-003Z	FUSE CLIP I.M	FOR F1903	J,C
Z1944	EMG7331-003Z	FUSE CLIP I.M	FOR F1904	

Switch P. C. B.

BLOCK NO. 04

REF	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN 1	EMV7159-010	10P PLUG ASSY		
D 1	1SR139-100	SI DIODE		
IC 1	SG-105F3-BB/C	PHOTO SENSER		
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	OSW0507-001	SWITCH		

BLOCK NO. 03

REF	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 601	ORD161J-123	C RESISTOR	12K 5% 1/4W	
R 603	ORD161J-125	C.RES. I.M	1.2M 5% 1/4W	
R 605	ORD167J-134	C.RES. I.M	130K 5% 1/4W	
R 606	ORD161J-913	C.RES. I.M	91K 5% 1/4W	
R 607	ORD161J-273	C RESISTOR	27K 5% 1/4W	
R 609	ORD161J-114	C.RES. I.M	110K 5% 1/4W	
R 610	ORD161J-154	C RESISTOR	150K 5% 1/4W	
R 612	ORD161J-103	C RESISTOR	10K 5% 1/4W	
R 613	ORD167J-121	C RESISTOR	120 5% 1/4W	
R 614	ORD161J-100	C RESISTOR	10 5% 1/4W	
R 615	ORD161J-120	C RESISTOR	12 5% 1/4W	
R 616	ORD161J-910Y	C RESISTOR	91 5% 1/4W	
R 621	ORD161J-330	C RESISTOR	33 5% 1/4W	
R 622	ORD161J-330	C RESISTOR	33 5% 1/4W	
R 623	ORD161J-330	C RESISTOR	33 5% 1/4W	
R 631	ORD161J-331	C RESISTOR	330 5% 1/4W	
R 632	ORD161J-101	C RESISTOR	100 5% 1/4W	
R 633	ORD161J-273	C RESISTOR	27K 5% 1/4W	
R 641	ORD161J-563	C RESISTOR	56K 5% 1/4W	
R 642	ORD161J-123	C RESISTOR	12K 5% 1/4W	
R 643	ORD161J-822	C RESISTOR	8.2K 5% 1/4W	
R 644	ORD161J-223	C RESISTOR	22K 5% 1/4W	
R 645	ORD161J-223	C RESISTOR	22K 5% 1/4W	
R 646	ORD161J-182	C RESISTOR	1.8K 5% 1/4W	
R 647	ORD167J-562	C RESISTOR	5.6K 5% 1/4W	
R 651	ORD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 652	ORD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 653	ORD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 654	ORD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 655	ORD161J-471	C RESISTOR	470 5% 1/4W	
R 659	ORD161J-471	C RESISTOR	470 5% 1/4W	
R 661	ORD161J-104	C RESISTOR	100K 5% 1/4W	
R 662	ORD161J-155	C RESISTOR	1.5M 5% 1/4W	
R 663	ORD161J-124	C RESISTOR	120K 5% 1/4W	
R 664	ORD161J-471	C RESISTOR	470 5% 1/4W	
R 666	ORD161J-220	C RESISTOR	22 5% 1/4W	
R 671	ORD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 672	ORD161J-102	C RESISTOR	1.0K 5% 1/4W	
X 651	VCX5016-934V	CRYSTAL	16.9344MHZ	

Head Amp.

BLOCK NO. 05111111

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	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
C 104	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 105	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 106	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C 107	NCS21HJ-561AY	C.CAPA. C.M	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	NCB21HK-682AY	C.CAPA. C.M	6800PF 10% 50V	
C 111	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
C 112	NCB21EK-683AY	C CAPACITOR	.068MF 10% 25V	
C 113	NCB21HK-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	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
C 204	NCB21HK-333AY	C CAPACITOR	.033MF 10% 50V	
C 205	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 206	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C 207	NCS21HJ-561AY	C.CAPA. C.M	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	NCB21HK-682AY	C.CAPA. C.M	6800PF 10% 50V	
C 211	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
C 212	NCB21EK-683AY	C CAPACITOR	.068MF 10% 25V	
C 213	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 301	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
C 302	NCB21HK-393AY	C CAPACITOR	100MF 20% 10V	
C 303	QEK40JM-227	E CAPACITOR	.039MF 10% 50V	
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	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 308	NCB21HK-562AY	C CAPACITOR	5600PF 10% 50V	
C 309	NCB21HK-562AY	C CAPACITOR	5600PF 10% 50V	
C 310	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C 311	NCB21HK-682AY	C.CAPA. C.M	6800PF 10% 50V	
C 313	QEK41EM-475	E CAPACITOR	100MF 20% 10V	
C 314	QEK41EM-155	ML C CAP I/M	1.5MF	
C 315	QEK41EM-155	ML C CAP I/M	1.5MF	
C 316	QEK41EM-103ZN	PP CAPACITOR	.010MF 5% 100V	
C 318	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 319	QEK41EM-475	TF CAPACITOR	820PF 5% 100V	
C 321	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 322	QEK41EM-152ZN	M CAPACITOR	1500PF 5% 100V	
C 331	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
C 331	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C 371	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
C 374	QEK41EM-107ZN	E CAPACITOR	MOTOR +B	
C 375	QEK41EM-107ZN	E CAPACITOR	100MF 20% 10V	
C 376	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
CN 31	VMC0163-R06	CONNECTOR	PRI/HEAD	
CN 32	QGB2011M1-10	PWB CONECTOR	PRI/MECHA	

BLOCK NO. 05111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN 33	QGF1205FF1-09	CONNECTOR	PRI/MICON	
CN 34	VMC0163-R10	CONNECTOR	PRI/AMP	
D 301	MA152WA-TX	DIODE		
D 309	MA704A	S.K.DIODE		
D 375	MA3051/M-X	ZENER DIODE		
FW 31	VWSC04-06A13K	EF FLAT	HEAD SW	
IC 31	BA3126N	IC	PB&REC	
IC 32	AN7317	IC		
IC 33	BU4094BCF-X	OSC COIL (BIAS)		
L 301	QGR0620-001	INDUCTOR		
L 303	VBP0033-100Z	INDUCTOR		
Q 101	DTC114TKT146	TRANSISTOR	REC EQ CONT.	
Q 102	DTC114TKT146	TRANSISTOR		
Q 201	DTC114TKT146	TRANSISTOR	REC EQ CONT.	
Q 202	DTC114TKT146	TRANSISTOR		
Q 301	D1A14EKA-X	TRANSISTOR	REC EQ CONT.	
Q 302	25C2001(L,K)	TR I/M		
Q 303	25C2001(L,K)	TR I/M		
Q 303	25C2001(L,K)	TRANSISTOR		
Q 304	25C2001(L,K)	TRANSISTOR		
Q 305	25C2001(L,K)	TRANSISTOR		
Q 306	25C1623(6)	TRANSISTOR		
Q 307	25C1623(6)	TRANSISTOR		
Q 308	25C1623(6)	TRANSISTOR		
Q 309	25C1623(6)	TRANSISTOR		
Q 321	D1C144EKA-X	TRANSISTOR		
Q 323	25C1623(6)	TRANSISTOR		
Q 371	25A952(L,K)	TRANSISTOR	MOTER+B	
Q 372	DTC124EK	TRANSISTOR		
Q 375	25B562(C)	TRANSISTOR	SOLENOID DRIVE	
Q 376	25C1623(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-242	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	RES. C.M	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	RES. C.M	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	RES. C.M	4.7K 5% 1/10W	
R 114	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R 116	NRSA02J-102NY	RES. C.M	1.0K 5% 1/10W	
R 121	NRSA02J-102NY	RES. C.M	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-242	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	RES. C.M	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	

BLOCK NO. 0511111111

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 210	NRSA02J-472NY	RES. C.M	4.7K 5% 1/10W	
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	RES. C.M	4.7K 5% 1/10W	
R 214	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R 216	NRSA02J-102NY	RES. C.M	1.0K 5% 1/10W	
R 221	NRSA02J-102NY	RES. C.M	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	RES. C.M	3.3 5% 1/10W	
R 314	NRSA02J-223NY	RES. C.M	22K 5% 1/10W	
R 315	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R 316	NRSA02J-223NY	RES. C.M	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	NRSAC2J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 327	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R 332	NRSA02J-123NY	RES. C.M	12K 5% 1/10W	
R 333	NRSA02J-123NY	RES. C.M	12K 5% 1/10W	
R 335	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R 336	NRSA02J-472NY	RES. C.M	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	RES. C.M	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	68K 5% 1/10W	
R 352	NRSA02J-912NY	RES. C.M	9.1K 5% 1/10W	
R 371	NRSA02J-123NY	RES. C.M	12K 5% 1/10W	
R 372	NRSA02J-102NY	RES. C.M	1.0K 5% 1/10W	
R 375	NRSA02J-151NY	MG RESISTOR	150 5% 1/10W	
R 376	NRSA02J-472NY	RES. C.M	4.7K 5% 1/10W	
VR 31	QVPA603-503A	SEMI V RESISTOR	BIAS ADJ	
VR 32	QVPA603-503A	SEMI V RESISTOR	BIAS ADJ	
VR 37	QVPA603-103M	SEMI V RESISTOR	TAPE SPEED ADJ	

JVC

SERVICE MANUAL

POWERD WOOFER CD SYSTEM

RV-B90LTD

Supplement

GY	GREY
AG	ARMY GREEN
LTD	SKELETON

Area Suffix	
J	the U.S.A
B	the U.K.
E	Continental Europe
EN	North Europe
EE	Eastan Europe
A	Austraria
U	Universal
UT	Taiwan
UP	Korea
US	Singapore
UX	Sauzi arabia

The RV-B90LTD is a skeleton version of the RV-B90GY/RV-B90AG. In order to clarify the differing points, a list of common parts with the GY/AG/LTD has been compiled.

Since this is not provided in the RV-B90GY/RV-B90AG parts list (Issue No.20672), please use this parts list for the GY/AG as well. Use the RV-B90GY/RV-B90AG parts list (Issue No.20672) for items not contained in the attached parts list.

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Packing	7
Accessories Parts List	8

■ Enclosure Assembly Parts List

BLOCK NO.

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VJG1500-01AUL	FRONT CABINET		1		LT
	VJG1500-00AUL	FRONT CABINET		1		GY
	VJG1500-02AUL	FRONT CABINET		1		AG
2	QAS0006-001	SPEAKER	L/R	2		AG
	QAS0006-001	SPEAKER	L/R	2		GY
	QAS0006-002	SPEAKER	L/R	2		LT
3	SBSF3010Z	SCREW	FOR SPEAKER	8		
4	VYH2280-002	CAP (L)		1		
5	VYH2281-002	CAP (R)		1		
6	VKZ4389-009	SOUND ABSORBER		2		
7	VKZ4805-001UL	SOUND ABSORBER		2		
8	VYSH102-097	SPACER		2		
9	SBSF3010Z	SCREW		8		
11	VJD2495-022	FRONT COVER		1	B,E,EE,EN	AG
	VJD2495-012	FRONT COVER		1	EE,EN,U	LT
	VJD2495-012	FRONT COVER		1	A,B,E	LT
	VJD2495-012	FRONT COVER		1	UP,US,UX	LT
	VJD2495-013	FRONT COVER		1	J	LT
	VJD2495-003	FRONT COVER		1	J	GY
	VJD2495-002	FRONT COVER		1	E,EE,EN	GY
	VJD2495-002	FRONT COVER		1	A,B,U,UP	GY
	VJD2495-002	FRONT COVER		1	US,UT,UX	GY
	VJD2495-023	FRONT COVER		1	J	AG
12	SBSF2608Z	T.SCREW		10		
13	VJK4520-001	LCD LENS		1		GY
	VJK4520-001	LCD LENS		1		AG
	VJK4520-011	LCD LENS		1		LT
15	VYSH102-098	SPACER		2		
16	VXP3890-021	POWER BUTTON		1		AG
	VXP3890-001	POWER BUTTON		1		GY
	VXP3890-011	POWER BUTTON		1		LT
17	VXP3891-001	FUNCTION BUTTON		1		GY
	VXP3891-011	FUNCTION BUTTON		1		LT
	VXP3891-021	FUNCTION BUTTON		1		AG
18	VXL4455-001	VOLUME KNOB		2		AG
	VXL4455-001	VOLUME KNOB		2		GY
	VXL4455-011	VOLUME KNOB		2		LT
19	VYTS539-002	VOLUME SHEET		2		
20	VJF3007-001	FOOT		1		AG
	VJF3007-001	FOOT		1		GY
	VJF3007-011	FOOT		1		LT
21	VJF3007-012	FOOT		1		LT
	VJF3007-002	FOOT		1		AG
	VJF3007-002	FOOT		1		GY
22	VYSA1R6-079	SPACER		2		
23	SBSF3010Z	SCREW		6		
24	VJK4516-002	LED LENS		1	US,UT,UX	
	VJK4516-002	LED LENS		1	EN,U,UP	
	VJK4516-001	LED LENS		1	J	
	VJK4516-002	LED LENS		1	A,B,E,EE	
25	VJD5512-001	LED LENS		1	US,UT,UX	
	VJD5512-002	LED LENS		1	J	
	VJD5512-001	LED LENS		1	A,B,E,EE	
	VJD5512-001	LED LENS		1	EN,U,UP	
28	GBSF3010Z	TAP SCREW		1		

BLOCK NO. M1MM

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
30	PQ45130-7	JVC MARK		1		
31	VJT2389-001	CASSETTE HOLDER		1		GY
	VJT2389-021	CASSETTE HOLDER		1		AG
	VJT2389-002	CASSETTE HOLDER		1		LT
32	VJT2390-021	DOOR COVER		1		AG
	VJT2390-001	DOOR COVER		1		GY
	VJT2390-011	DOOR COVER		1		LT
33	VJT4246-021	DOOR LENS		1		AG
	VJT4246-001	DOOR LENS		1		GY
	VJT4246-011	DOOR LENS		1		LT
34	VKY4180-001	CASSETTE SPRING		2		
35	VYH5601-001	GEAR		1		
36	VXL4458-021	EJECT KNOB		1		AG
	VXL4458-001	EJECT KNOB		1		GY
	VXL4458-011	EJECT KNOB		1		LT
37	VYH8174-001	CAM(A)		1		
39	VKY4736-001	PLATE SPRING(A)		1		
40	VKY4737-002	PLATE SPRING(B)		1		
41	SBSF2008Z	SCREW		1		
43	VKW5309-001	DOOR SPRING		1		
44	-----	SLC MECHA ASS'Y		1		
45	VKL7850-002	EJECT SAFTY(R)		1		
46	VKW5258-002	TORSION SPRING		1		
47	SBSF3014Z	SCREW		4		
48	VMA4728-002	HEAD SHIELD		1		
50	-----	CD MECHA		1		
51	VJDS410-204	PICK-UP COVER		1		
52	SDSF2006M	SCREW		4		
53	FMYH4003-003	INSULATOR		2		
54	FMYH4003-004	INSULATOR		2		
55	VYH7815-001	CD MECHA HOLDER		2		
56	SBSF3010Z	SCREW		4		
57	E65923-003	TAPPING SCREW		1		
58	VJD1225-021UL	CD CASE		1		AG
	VJD1225-001UL	CD CASE		1		GY
	VJD1225-011UL	CD CASE		1		LT
60	SBSF3010Z	SCREW		4		
61	SBSF3010Z	SCREW		4		
62	VYH4769-002	GEAR		1		
65	VJT1060-023	CD DOOR		1		AG
	VJT1060-003	CD DOOR		1		GY
	VJT1060-013	CD DOOR		1		LT
66	VYH3644-001	CLAMPER	FOR OPTIMA-6	1		
67	VYH7313-003	MAGNET		1		
68	VYH7314-001	YOKE		1		
69	VYH7315-005	PAD		1		
70	VXL4458-021	EJECT KNOB		1		AG
	VXL4458-001	EJECT KNOB		1		GY
	VXL4458-011	EJECT KNOB		1		LT
71	VYH8197-001	CAM(B)		1		
72	SBSF2008Z	SCREW		1		
73	VKY4736-001	PLATE SPRING(A)		1		
74	VKY4737-002	PLATE SPRING(B)		1		
75	VYH8178-001	SLIDER(B)		1		

BLOCK NO. M1MM1111

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	76	VKW5334-001	SWITCH SPRING		1		
	77	VYH8204-001	SWITCH LEVER		1		
	78	VYH8205-001	LOCK		1		
	79	SDSF2606M	SCREW		1		
	80	VYH8176-002	COVER		1		
	81	VKW5352-001	TENSION SPRING		1		
	82	VKW5335-002	CD DOOR SPRING		1		
	83	VKZ4794-002	SPECIAL SCREW		3		
	84	VMH3021-001	HEAT SINK		1		
	85	VYH3892-005	HEAT SINK		1		
	86	VMH4055-002	HEAT SINK		1		
	87	SBSF3010Z	SCREW		1		
	88	SBSF3010Z	SCREW		2		
	89	SBSF3010Z	SCREW		4		
	90	SBST3008Z	TH TAP SCREW		4		
	91	VYH8188-002	BRACKET		2		
	92	SBSF3010Z	SCREW		4		
	93	VYK3011-001	LCD HOLDER		1		
	94	VYH8193-002	SHEET		1		
	96	VJG1502-023UL	REAR CABINET		1	B,E,EE	AG
		VJG1502-023UL	REAR CABINET		1	EN,J	AG
		VJG1502-019	REAR CABINET		1	UP	LT
		VJG1502-015	REAR CABINET		1	U,US,UX	LT
		VJG1502-005	REAR CABINET		1	U,US,UT,UX	GY
		VJG1502-009	REAR CABINET		1	UP	GY
		VJG1502-013UL	REAR CABINET		1	EE,EN,J	LT
		VJG1502-013UL	REAR CABINET		1	A,B,E	LT
		VJG1502-003UL	REAR CABINET		1	A,B,E	GY
		VJG1502-003UL	REAR CABINET		1	EE,EN,J	GY
	97	FMJA3001-00A(D)	ROD ANT ASS'Y		1		
	98	VYH5012-005SS	TERMINAL LUG		1		
	99	E65923-003	TAPPING SCREW		1		
	100	SDSP3012N	SCREW	FOR ROD ANT	1		
	102	SBSF4012Z	SCREW		4		
	103	VYSH101-028	SPACER		1		
	104	VKZ4001-016	WIRE HOLDER		1		
	105	VYH8179-002	JACK HOLDER		1		
	110	SBSF3010Z	SCREW	FOR JACK HOLDER	2		
		SBSF3010Z	SCREW	FOR JACK HOLDE	3	U,US,UT	
		SBSF3010Z	SCREW	FOR JACK HOLDE	3	UB,UX,UP	
	111	VJD2503-001	DUCT		1		AG
		VJD2503-001	DUCT		1		GY
		VJD2503-011	DUCT		1		LT
	112	VKZ4796-001	SOUND ABSORBER		2		
	113	VJD2503-002	DUCT		1		AG
		VJD2503-002	DUCT		1		GY
		VJD2503-012	DUCT		1		LT
	114	SBSF3010Z	SCREW		8		
	115	VJD5510-001	DUCT CAP		2		AG
		VJD5510-001	DUCT CAP		2		GY
		VJD5510-011	DUCT CAP		2		LT
	116	VJD1230-022UL	REAR GRILLE		1		AG
		VJD1230-002UL	REAR GRILLE		1		GY
		VJD1230-012UL	REAR GRILLE		1		LT

BLOCK NO. M1111111

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
117	SBSF3010Z	SCREW		4		
118	SBSF3010Z	SCREW		4		
121	VJE3036-001	BATTERY LID		1		GY
	VJE3036-021	BATTERY LID		1		AG
	VJE3036-011	BATTERY LID		1		LT
122	SBSF3010Z	SCREW		2		
123	VYH8199-021	COVER		1		AG
	VYH8199-001	COVER		1		GY
	VYH8199-001	COVER		1		LT
124	VYTH542-001	SHEET(COVER)		1		
125	VYSH101-029	SPACER		1		
127	SBSF3010Z	SCREW		1		
128	VKZ4001-111	WIRE HOLDER		1		
129	SBSF3010Z	SCREW		1		
130	VJC2603-021	BATTERY COVER		1		AG
	VJC2603-001	BATTERY COVER		1		GY
	VJC2603-011	BATTERY COVER		1		LT
131	VYH5657-001	BATTERY SPRING		1		
132	E65923-003	TAPPING SCREW		1		
133	VJD1233-00CUL	SIDE PROTECT.AS		2		AG
	VJD1233-00CUL	SIDE PROTECT.AS		2		GY
	VJD1233-01CUL	SIDE PROTECT.AS		2		LT
140	VKZ4795-001	SPECIAL SCREW		12		
141	QAS0007-001	SPEAKER		2		
142	SBSF4012Z	SCREW		4		
143	SBSF4012Z	SCREW		4		
144	VKH3012-073	SHAFT(E)		2		
145	SBSF3035Z	SCREW	FRONT+REAR	10		
146	SBSF3010Z	SCREW		2		
147	VYN5219-D205T	NAME PLATE		1	B,E,EN	AG
	VYN5219-D212T	NAME PLATE		1	EE	AG
	VYN5219-D010T	NAME PLATE		1	UT	GY
	VYN5219-D107T	NAME PLATE		1	UX	GY
	VYN5219-D103T	NAME PLATE		1	A	LT
	VYN5219-D007T	NAME PLATE		1	U	GY
	VYN5219-D022T	NAME PLATE		1	UP	GY
	VYN5219-D014T	NAME PLATE		1	US	GY
	VYN5219-D003T	NAME PLATE		1	A	GY
	VYN5219-D005T	NAME PLATE		1	B,E,EN	GY
	VYN5219-D012T	NAME PLATE		1	EE	GY
	VYN5219-D114T	NAME PLATE		1	US	LT
	VYN5219-D607T	NAME PLATE		1	UX	LT
	VYN5219-D106T	NAME PLATE		1	J	LT
	VYN5219-D507T	NAME PLATE		1	U	LT
	VYN5219-122T	NAME PLATE		1	UP	LT
	VYN5219-D105T	NAME PLATE		1	B,E,EN	LT
	VYN5219-D112T	NAME PLATE		1	EE	LT
	VYN5219-D206T	NAME PLATE		1	J	AG
147	VYN5219-D006T	NAME PLATE		1	J	GY
148	VXL4442-001	VOLUME KNOB		1	U,UX,UB	
149	SBSF3010Z	SCREW		2	U,UX,UB	
150	VYH5483-001	LEAF SPRING		1		
151	VYH7199-001	LEAF SPRING		1		
154	QUQ412-0912CJ	FLAT WIRE		1		

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
155	QUQ412-0916CJ	FLAT WIRE		1		
156	QUQ412-1018CJ	FLAT WIRE		1		
157	QUQ412-1310CJ	FLAT WIRE		1		
158	QUQ412-0706CJ	FLAT WIRE		1		
159	QUQ412-1112CJ	FLAT WIRE		1		
160	QUQ110-1507AJ	FLAT WIRE		1		
161	VYK3023-001	SHIELD PLATE		1	J	
162	VYSA1R6-079	SPACER		2	J	
163	QZW0009-001	WIRE CLAMP		1	J	
F1902	QMF51A2-8R0J1	FUSE	2ND	1		
	QMF0007-8R0J1	FUSE	2ND	1	J	
F1904	QMF51A2-6R3-S	FUSE	DC	1		
	QMF51U1-6R3-J1	FUSE	DC	1	J	
T1901	QQT0176-004	POWER TRANS		1	U,UB,UX	
	QQT0176-004	POWER TRANS		1	US,UT	
	QQT0176-002	POWER TRANS		1	J	
	QQT0176-005	POWER TRANS		1	A	
	QQT0176-003	POWER TRANS		1	E,EN,B	
	QQT0176-003	POWER TRANS		1	EE,UP	

■ Packing Parts List

BLOCK NO. M4MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P 1	VPC5219-D014	PACKING CASE		1	J	LT
	VPC5219-D013	PACKING CASE		1	UP,US,UX	LT
	VPC5219-D013	PACKING CASE		1	EE,EN,U	LT
	VPC5219-D013	PACKING CASE		1	B,A,E	LT
	VPC5219-D004	PACKING CASE		1	J	GY
	VPC5219-D003	PACKING CASE		1	EN,U,UP	GY
	VPC5219-D003	PACKING CASE		1	US,UT,UX	GY
	VPC5219-D024	PACKING CASE		1	J	AG
	VPC5219-D003	PACKING CASE		1	A,B,E,EE	GY
	VPC5219-D023	PACKING CASE		1	B,E,EE,EN	AG
P 2	VPH1721-003	CUSHION UPPER L		1		
P 3	VPH1721-004	CUSHION UPPER R		1		
P 4	VPH1721-001	CUSHION BOTTOM L		1		
P 5	VPH1721-002	CUSHION BOTTOM R		1		
P 6	QPF16016015	POLY SHEET		1		
P 7	QPA02503505P	POLY BAG	FOR INST.	1		
P 8	QPA01202505	POLY BAG	FOR POWER CORD	1	A,J,U	
	QPA01202505	POLY BAG	FOR POWER CORD	1	UP,US,UT,UX	
	QPGA015-03503	POLY BAG	FOR POWER CORD	1	B	
	QPA01202505	POLY BAG	FOR POWER CORD	1	E,EE,EN	

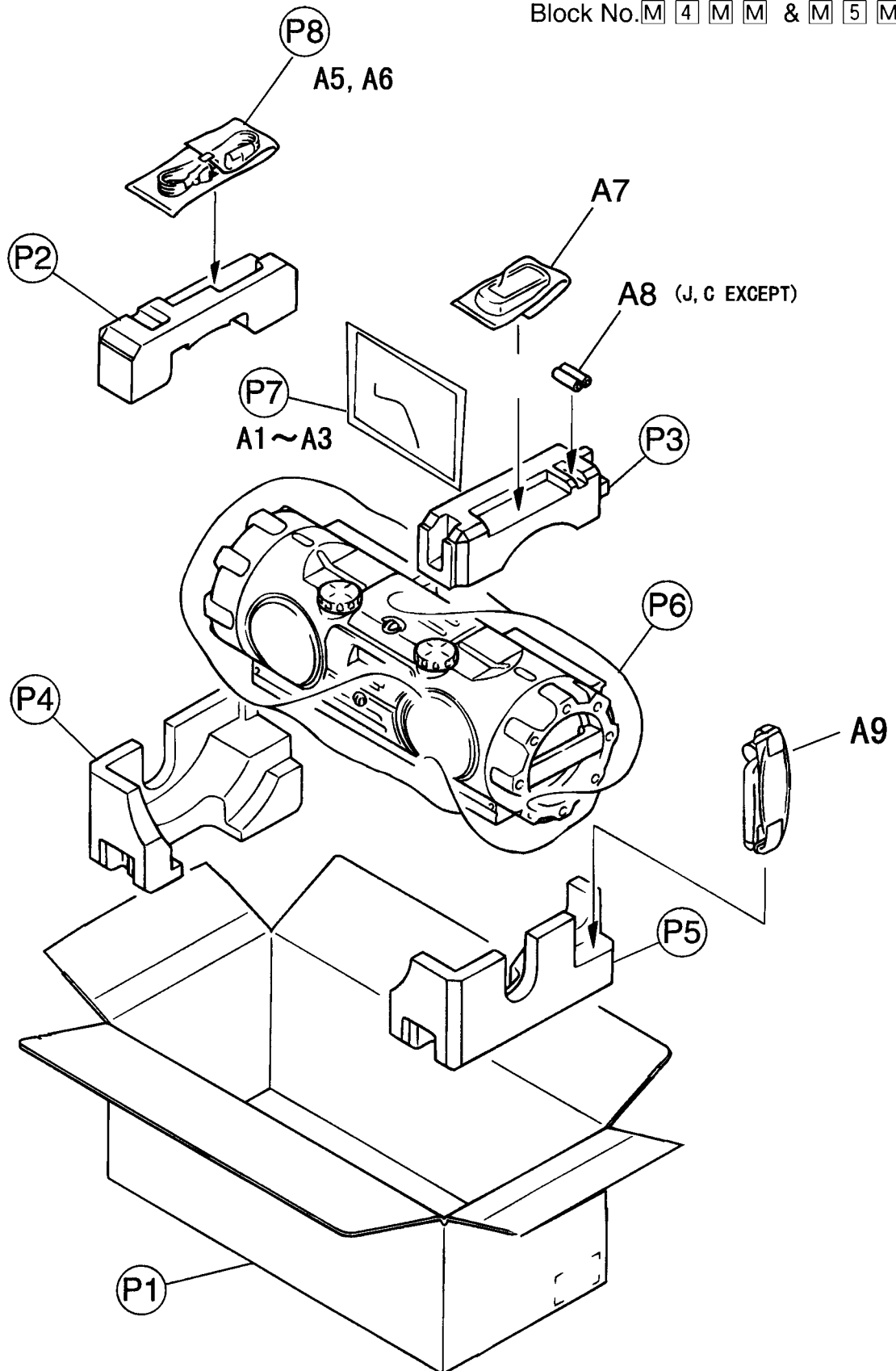
Packing Materials and Parts Numbers

Block No.

M	4	M	M
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M	5	M	M
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Accessories Parts List

BLOCK NO. M5MM | | | |

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	E43486-340B	SAFETY SHEET		1	B	
		BT-20044G	SAFETY INST		1	J,C	
		VNN5219-921N	INSTRUCTIONS		1	EE	
		VNN5219-111N	INSTRUCTIONS		1	U,A,UB	
		VNN5219-111N	INSTRUCTIONS		1	US,UT	
		VNN5219-151N	INSTRUCTIONS		1	UP	
		VNN5219-611D	INSTRUCTIONS		1	J,C	
		VNN5219-141N	INSTRUCTIONS		1	UX	
		VNN5219-261N	INSTRUCTIONS		1	E	
		VNN5219-251N	INSTRUCTIONS		1	E	
		VNN5219-271N	INSTRUCTIONS		1	EN	
		VNN5219-671N	INSTRUCTIONS		1	B	
	A 2	BT-54008-1	WARRANTY CARD		1	E,EN,B	
		BT-52001-4	WARRANTY CARD		1	J,C	
		BT-51009-3	WARRANTY CARD		1	J,C	
		BT-54008-1	WARRANTY CARD		1	EE	
		BT-56004-5	WARRANTY CARD		1	UP	
		BT-56001-1	WARRANTY CARD		1	A	
	A 3	BT-20137	SERVICE NETWORK		1	J,C	
		BT-20071B	SERVICE NETWORK		1	J,C	
		BT-56002-1	SERVICE NETWORK		1	A	
	A 5	QMP39F0-183	POWER CORD		1	E,U,EN	
		VMP0121-001	POWER CORD		1	UP	
		QMP25D0-183	POWER CORD		1	A	
		QMP39F0-183	POWER CORD		1	EE,US	
		QMP5520-183BS	POWER CORD		1	B,UB	
		QMP7350-150	POWER CORD		1	UT,UX	
		QMP1F00-183	POWER CORD		1	J,C	
	A 6	ENZ2202-001	SIEMENS PLUG		1	U,US	
		ENZ2203-001	SIEMENS PLUG		1	UT,UX	
	A 7	QAL0066-011	W.LESS REMOCON		1	US,UT,UX	LT
		QAL0066-006	W.LESS REMOCON		1	J	LT
		QAL0066-011	W.LESS REMOCON		1	EN,U,UP	LT
		QAL0066-008	W.LESS REMOCON		1	B,E,EE,EN	AG
		QAL0066-007	W.LESS REMOCON		1	J	AG
		QAL0066-003	W.LESS REMOCON		1	A,B,E,EE	GY
		QAL0066-003	W.LESS REMOCON		1	EN,U,UP	GY
		QAL0066-003	W.LESS REMOCON		1	US,UT,UX	GY
		QAL0066-011	W.LESS REMOCON		1	A,B,E,EE	LT
		QAL0066-002	W.LESS REMOCON		1	J	GY
	A 8	R6SPTT/2STS	BATTERY		1	UP,US,UT,UX	
		R6SPTT/2STS	BATTERY		1	EE,EN,U	
		R6SPTT/2STS	BATTERY		1	A,B,E	
	A 9	VJH3076-002	SHOULDER BELT		1		AG
		VJH3076-002	SHOULDER BELT		1		GY
		VJH3076-012	SHOULDER BELT		1		LT

JVC

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