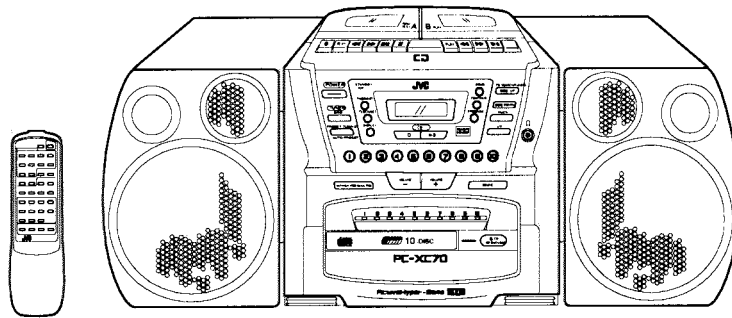


JVC

SERVICE MANUAL

PORTABLE CD CHANGER SYSTEM

PC-XC70BK C/J



COMPACT
disc
DIGITAL AUDIO

Area Suffix

C Canada
J U.S.A

■ Self-diagnosis function

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

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■ Safety Precautions

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

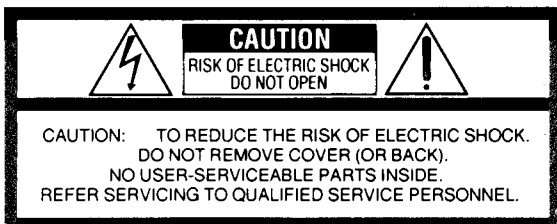
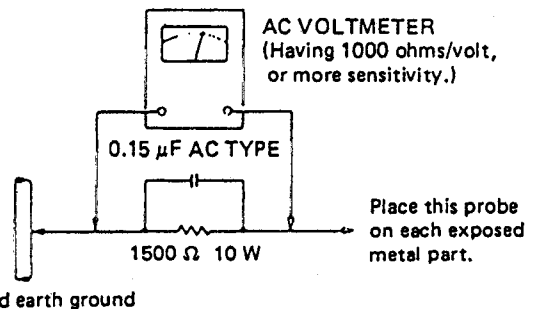
5. Leakage current check (Electrical shock hazard testing)

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

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

• Alternate check method

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



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



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

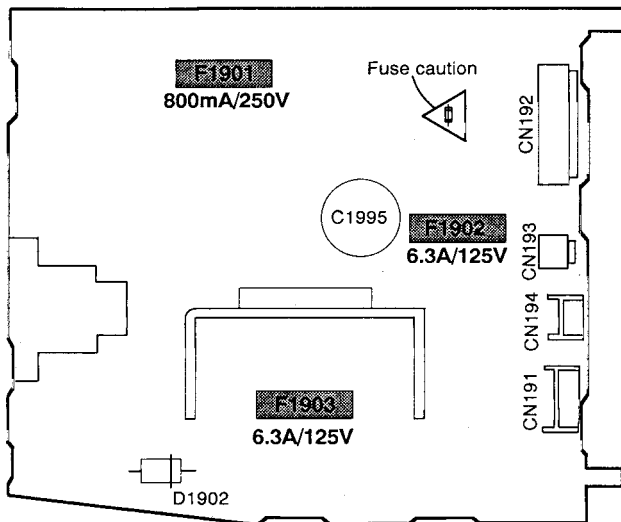
⚠ CAUTION

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.

**J (USA) Only
Important for Laser Products**

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

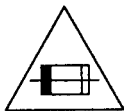
POWER SUPPLY BOARD



PC – XC70 C/J ONLY

Explanation of graphic symbole mark

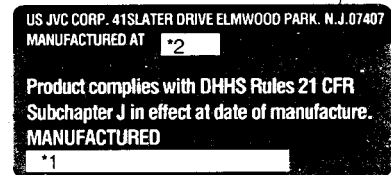
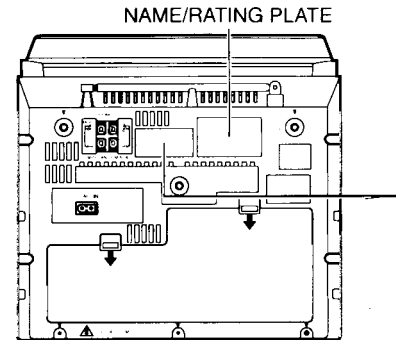
Graphic symbol mark
(This symbol means fast blow type fuse.)



should be read as follows:
FUSE CAUTION

**FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE OF FUSE;
F1901 : 800mA/250V, F1902 : 6.3A/125V, F1903 : 6.3A/125V**

IDENTIFICATION LABEL AND CERTIFICATION LABEL



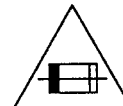
Notes:

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

PC – XC70 C/J SEULEMENT

Explication du symbole graphique

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



doit être interété comme suit:

PRECAUTIONS SUR LES FUSIBLES

POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLASER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ; F1901: 800mA/250V, F1902 : 6.3A/125V, F1903 : 6.3A/125V

■ Important control point concerning safety

1. Check the power transformer marking, and check that the power transformer is securely installed.

UL approval number: 71H400HDLP

Parts number: 71H400HDLP

2. Check the power cord marking, and check that the power cord is not externally damaged.

| | | |
|--|-----------|-----------|
| | J VERSION | C VERSION |
|--|-----------|-----------|

| | | |
|------------|---------|---------|
| Cord mark: | SPT – 2 | SPT – 2 |
|------------|---------|---------|

| | | |
|------------------|-----------------|-----------------|
| Attachment plug: | KP-10W or SU-1P | KP-10W or SU-1P |
|------------------|-----------------|-----------------|

| | | |
|---------------|-----------------|-----------------|
| Connect plug: | KS-15W or SU-6P | KS-15W or SU-6P |
|---------------|-----------------|-----------------|

3. Check the AC socket marking, and check that the AC socket is tightly fixed in the P.C.board when installed.
HSC1566

4. Check that there is sufficient space for the primary and adjacent secondary terminal parts on the P.C.board (There should be no protrusions of solder or terminal wires.)

5. Check the rated fuse display, and check that the fuse is secure in the fuse holder. F1901: 800mA/250V

F1902: 6.3A/125V

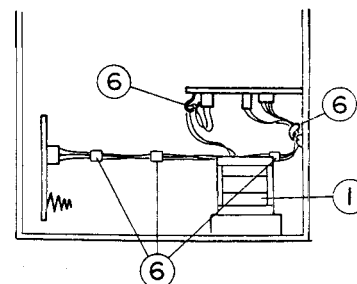
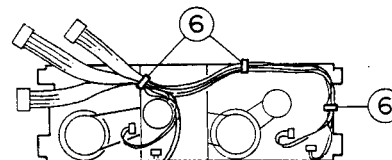
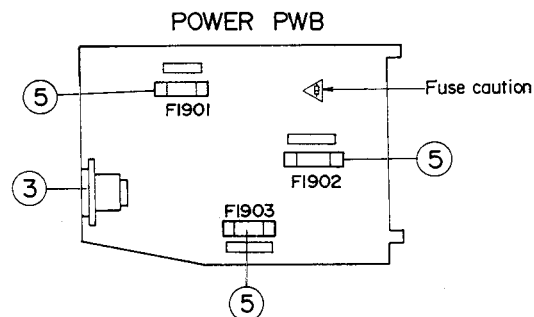
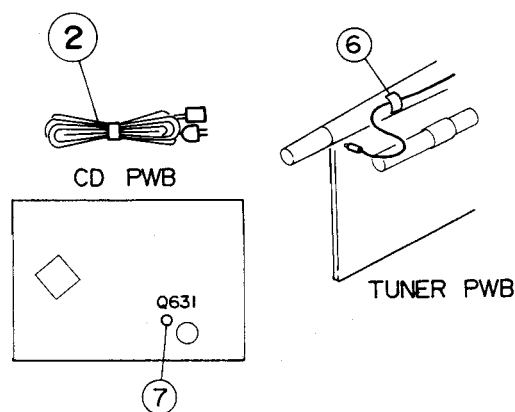
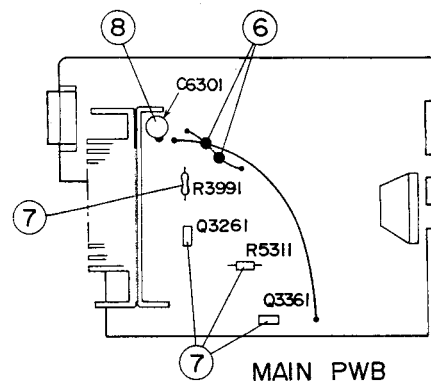
F1903: 6.3A/125V

6. Check that the wires are neatly arranged so that they do not interfere with sections involving power, moving parts, heat generation, or those with sharp-edged parts.

7. The following parts are important for safety in such operations as those involved with heat generation. Use the specified parts and check original shape. Heat generating parts should be suspended above the P.C.board not fallen down. Parts marked with are safety control parts.

HEAT SINK, IC601, Q3191, R7341, Q3261, Q603, IC602, Q3361, R5311, R3891.

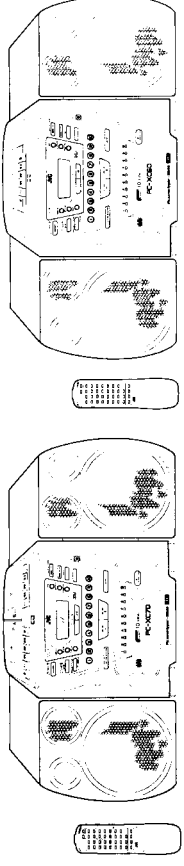
8. Confirm the following parts specified in the UL and CSA.: C361 (vending type)





JVC

CD PORTABLE COMPONENT SYSTEM SISTEMA PORTATIL DE COMPONENTES DE CD CHAÎNE PORTABLE A LECTEUR CD **PC-XC70/XC60 C/J**



PC-XC70

PC-XC60

INSTRUCTIONS

INSTRUCCIONES
MANUEL D'INSTRUCTIONS

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

Model No. _____
Serial No. _____

ENGLISH

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



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

CAUTION
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). REFER SERVICE TO QUALIFIED SERVICE PERSONNEL.

INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, which means that some radio interference may be caused under certain conditions. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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.

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

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

The exclamation mark within an equilateral triangle is a warning that the presence of certain operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

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.

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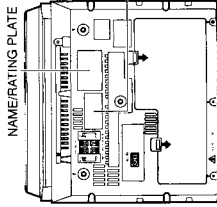
AVERTISSEMENT:
POUR REDUIRE LES RISQUES D'INCENDIE OU D'ÉLECTROCUTION, NE PAS EXPOSER L'APPAREIL À LA PLUIE NI À L'HUMIDITÉ.

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

PRECAUTIONS

1. CLASS I LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit, leave all covers closed.
4. CAUTION: The CD player has a visible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder or CD tray is open. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls for adjustments and the operation of procedures other than those specified herein may result in exposure to hazardous radiation.

IDENTIFICATION LABEL AND CERTIFICATION LABEL



- Notes:**
- 1 The ID code of manufacturer.
 - 2 The ID code of manufacturing plant.

Prevention of Electric Shocks, Fire Hazards and Damage

1. Even when the POWER button is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the back of the speaker.
2. Do not use the power cord with wet hands.
3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Consult your nearest dealer when damage, disconnection, or contact failure affects the cord.
5. Do not bend the cord severely, or pull or twist it.
6. Do not modify the power cord in any manner.
7. To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
8. Do not insert any metallic objects into the unit.
9. Unplug the power cord when there is a possibility of lightning.
10. If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
11. Do not block the unit's ventilation holes that allow heat to escape.
12. Do not install the unit in a badly ventilated place.
13. Since this unit uses a motor-driven CD holder, CD tray makes as that your hand or other object does not obstruct holder or tray movement.
14. Since the speaker sections of this unit are detachable, be sure that each speaker is firmly connected to the main unit when carrying the unit and avoid dropping or striking it, and other forms of impact.

SAFETY PRECAUTIONS



PRECAUCIONES DE SEGURIDAD

- Prevención de choques eléctricos, peligro de incendio y daños.**
1. Incluso cuando el botón de alimentación POWER está encendido en espera STANDBY, 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 CA.
 2. No manipule el cordón eléctrico con las manos mojadas.
 3. Cuando lo desenchufe del tomacorriente de pared, sujételo siempre por el enchufe, no por el cordón.
 4. En caso de que el cordón sea afectado por daños, desconexión, o falso contacto, consulte a su agente más cercano.
 5. No bloquee en ángulo agudo el cordón, no lo doble del mismo ni lo retuerza.
 6. No modifique el cordón eléctrico de ninguna manera.
 7. Para evitar accidentes, no extraiga los tornillos para desarmar la unidad y no toque nada dentro de la misma.
 8. No inserte ningún objeto metálico dentro de la unidad.
 9. Desenchufe el cordón eléctrico cuando haya posibilidad de caída de rayos.
 10. Si se introduce agua dentro de la unidad, desenchufe el cordón eléctrico del tomacorriente y consulte a su agente.
 11. No bloquee los orificios de ventilación de la unidad que permiten el escape de calor.
 12. No instale la unidad en un lugar mal ventilado.
 13. Como esta unidad utiliza un portadisco o CD tray, asegure que su mano u otro objeto no obstruya el movimiento del mismo.
 14. Como los altavoces de esta unidad pueden ser extraídos, asegúrese de que cada altavoz esté firmemente conectado a la unidad principal y evite dejarlos caer, golpearlos o cualquier otra forma de impacto, cuando los transporta.

CONSIGNES DE SECURITE

- Prévention contre l'électrocution, les incendies et les dommages.**
1. Même lorsque le bouton POWER est réglé sur STANDBY, il circule une faible courant. Pour économiser l'énergie et pour la sécurité, si l'appareil n'est pas utilisé pendant une longue période, débrancher le cordon d'alimentation de la prise secteur.
 2. Ne pas saisir le cordon d'alimentation avec les mains humides.
 3. En débranchant de la prise secteur, toujours tenir et tirer sur la fiche, pas sur le cordon.
 4. En cas de dommage au cordon, débrancher le cordon, ne pas toucher le cordon produit avec le cordon.
 5. Ne pas plier le cordon sévèrement et ne pas le tirer ni le tordre.
 6. Ne pas modifier le cordon d'alimentation.
 7. Pour éviter des accidents, ne pas retirer les vis pour démonter l'appareil, et ne rien toucher dans l'appareil.
 8. Ne pas introduire d'objets métalliques dans l'appareil.
 9. Débrancher le cordon secteur en cas dorage.
 10. Si l'eau pénètre dans l'appareil, débrancher le cordon secteur de la prise et consulter un réparateur.
 11. Ne pas boucher les trous de ventilation de l'appareil qui permettent à la chaleur de s'évacuer.
 12. Ne pas installer l'appareil dans un endroit mal aéré.
 13. Comme cet appareil utilise un porte disque ou un tray, CD, commandez motrice, bien assurer que votre main ou autre chose ne gêne pas le mouvement du disque.
 14. Comme les parties haut-parleur de cet appareil sont détachables, bien s'assurer que chaque haut-parleur est bien fixé à l'appareil principal lors du transport. Éviter de laisser tomber l'appareil, de le cogner, et de lui infliger toute forme de choc.

CARACTERISTICAS

Demo mode button (only when AC power is used)
When the AC power cord is plugged into an AC outlet, the unit enters the demo mode automatically. When you press the DEMO button while the unit's power is switched off, it also enters the demo mode. Indicators on the display window change in succession and the 10-CD changer starts to play the 10 demo tracks. Press the DEMO button and the unit's power will be switched off.

- The demo mode is automatically cancelled after being engaged for 12 hours consecutively.

Botón del modo de demostración (sólo cuando se usa alimentación CA)
Cuando se conecta el cordón de CA en el tomacorriente de CA, la unidad activa automáticamente el modo de demostración. Cuando usted presiona el botón DEMO, mientras la alimentación de la unidad está desconectada, la misma indica el modo de demostración. Las indicaciones en el visor de indicación cambian en sucesión y el reproductor de discos comienza a reproducir los 10 discos de demostración. Presione el botón DEMO y se desconectará la alimentación de la unidad.

- El modo de demostración queda automáticamente desactivado después de estar activado durante 12 horas consecutivas.

Touche de mode de démonstration (uniquement quand l'alimentation CA est utilisée)
Quand le cordon d'alimentation CA est branché à une prise secteur, l'appareil passe automatiquement en mode de démonstration. Quand vous appuyez sur le bouton DEMO, lorsque l'alimentation de l'appareil est coupée, il passe également en mode de démonstration. Des indicateurs dans le fenêtre d'affichage changent les uns après les autres et les indicateurs de changer 10 CD s'allument. Pour annuler ce mode, appuyer sur la touche DEMO et l'alimentation de l'appareil sera coupée.

- Le mode de démonstration est annulé automatiquement après avoir été engagé pendant 12 heures consécutives.

- Multi-function 10-CD changer
- Active Hyper-Bass PRO circuit for low-frequency sound reproduction
- Sound mode operation (COMPU PLAY) (only when AC power is used)
- Single Disc Select (SDDS) function
- Single Disc Select/Skip Play/Search Play/Continuous Play/Repeat Play/Random Play
- Programmed play of up to 20 tracks
- Double-cassette mechanism (Deck A for recording and playback, Deck B for playback) (PC-XC70 only)
- Single cassette mechanism (PC-XC60 only)
- 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability
- Seek/manual tuning
- Auto Repeat function

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

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

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

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

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

Lorsque cet appareil est branché à une prise secteur, il consomme une petite quantité de courant pour faire fonctionner le contrôleur à distance et la mémoire du microprocesseur, même quand la touche POWER est sur STANDBY.

HANDLING PRECAUTIONS



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

PRECAUCIONES DE MANIPULACION



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

PRECAUTIONS DE MANIPULATION



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

11. Faire attention aux choses suivantes

- Ne pas placer l'appareil sur un plan incliné.
- Ne pas faire subir des chocs à l'appareil.
- Pour fermer le tiroir CD, appuyer sur la touche OPEN/CLOSE (A) du tiroir CD. (Ne pas le fermer à la main).
- Lorsque le tiroir est fermé, sortir les câbles du changeur CD si possible.

11. Preste atención a lo siguiente

- No coloque la unidad sobre un plano inclinado.
- No permita que la unidad reciba choques.
- Para cerrar el portacasete de CD presione el botón OPEN/CLOSE (A) del mismo. (No cierre con la mano).
- Cuando el cajón esté cerrado, saque los cables del cambiador de CD si es posible.

11. Pay attention to the following

- Do not place the unit on an incline.
- Do not apply shock to the unit.
- Press the CD tray (A) OPEN/CLOSE button to close the CD tray. (Do not close it by hand).
- It is recommended to remove CDs from the CD changer when you transport the unit.

FIXATION/RETRAIT DES HAUT-PARLEURS

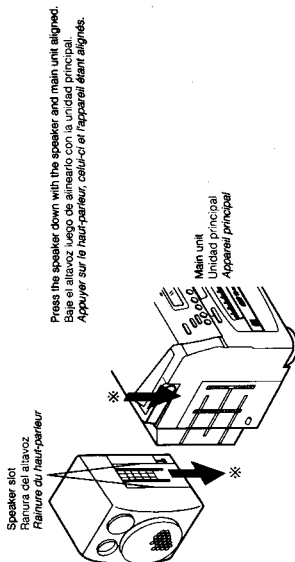
Utilisation des haut-parleurs fixés à l'appareil
Aligner le dessous du haut-parleur contre le haut de l'appareil principal et appuyer sur le haut-parleur pour le fixer.

FIJACION/RETIRO DE LOS ALTAVOCES

Cuando utiliza los altavoces colocados en la unidad principal
Alinee la parte inferior del altavoz con la parte superior de la unidad principal y presione el altavoz hacia abajo para colocarlo.

ATTACHING/DETACHING THE SPEAKERS

When using the speakers attached to the main unit
Align the bottom of the speaker against the top of the main unit and press down on the speaker to attach it.

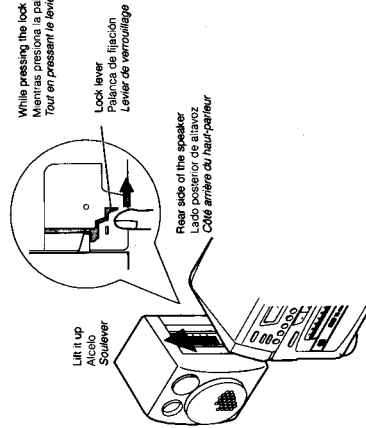


Press the speaker down with the speaker and main unit aligned.
Baje el altavoz luego de alinearlo con la unidad principal.
Appuyez sur le haut-parleur, celui-ci et l'appareil étant alignés.

Utilisation des haut-parleurs détachés de l'appareil principal
Tournez le levier de verrouillage en bas à l'arrière du haut-parleur dans le sens de la flèche, soulevez le haut-parleur pour le détacher de l'appareil principal.

Cuando utiliza los altavoces separados de la unidad principal
Mientras presiona la palanca de bloqueo a l'arrière de la parte superior del altavoz en la dirección de la flecha, levante el altavoz para separarlo de la unidad principal.

When using the speakers detached from the main unit
While pressing the lock lever at the rear bottom of speaker in the direction of the arrow, lift the speaker up to detach from the main unit.



While pressing the lock lever.
Mientras presiona la palanca de fijación...
Tour en pressant le levier de verrouillage...

• Cuando un funcionamiento anormal se produce.
• Desenchufar el cordón de alimentación sector de la prise de courant et retirer toutes les piles. Puis remettre les piles au bout de quelques heures de l'alimentation secteur et mettre l'alimentation sur marche.

1. Evitar l'installation dans les endroits suivants
• Où il pourrait être sujet aux vibrations.
• Dans des endroits trop humides, comme une salle de bains.
• Où il pourrait être magnétisé par un aimant ou un haut-parleur.

2. Faire attention à la poussière
Bien s'assurer de fermer le porte disque ou le tiroir CD pour que la poussière ne s'accumule pas sur la lentille.
3. Dans les cas suivants, la condensation peut se produire dans l'appareil, dans ce cas l'appareil peut ne pas fonctionner correctement.
• Dans une pièce où le chauffage vient juste d'être mis.
• Dans un endroit sujet à la fumée ou à l'humidité.

4. Réglage du volume
Un disque audio numérique produit un souffle très faible comparé à des sources analogiques. Si le niveau de volume est réglé pour ces sources, les haut-parleurs peuvent être endommagés par une augmentation soudaine du niveau de sortie. Par conséquent, baisser le volume avant le fonctionnement et le régler comme requis après le démarrage.

5. Ne pas placer de cassette, etc. près des haut-parleurs
Comme il y a des aimants dans les haut-parleurs, ne pas placer de bande enregistrée ou de carte magnétique à proximité, un important matériel enregistré peut être effacé.

6. Garder cet appareil éloigné de votre téléviseur
Si cet appareil est utilisé près d'un téléviseur, il peut interférer avec le fonctionnement de celui-ci. Si cela se produit, éloigner cet appareil du téléviseur. Si ce n'est pas suffisant, éviter d'utiliser cet appareil quand le téléviseur est en marche.

7. Nettoyage du coffret
Si le coffret devient sale, l'essuyer avec un chiffon doux et sec. Ne pas utiliser de benzine ou de diluant qui pourrait abîmer la fin de la surface.
8. Ne pas écouter à volume trop élevé car cela risque de provoquer des troubles de l'ouïe.
• Pour des raisons de sécurité, ne pas conduire en écoutant cet appareil.

9. Poignée de transport
Ne pas relever ou abaisser la poignée de transport avec l'antenne télescopique sortie, pour éviter d'endommager l'antenne. Placer la poignée de transport pour qu'elle ne gêne pas le fonctionnement.
10. Lorsque cet appareil est porté, couper l'alimentation dans la mesure du possible. Sinon, une mauvaise manipulation peut se produire dans l'appareil.

• Cuando ocurre una falla de funcionamiento.
• Desenchufar 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 a la alimentación.

1. Evite instalarla en los siguientes lugares
• Donde pueda ser sujeta a vibraciones.
• Donde haya humedad excesiva, tal como en un cuarto de baño.
• Donde pueda ser magnetizada por un imán o un altavoz.

2. Preste atención al polvo
Asegúrese de cerrar el portacasete o comparamiento de CD para que el polvo no se deposite sobre la lente.
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 de gas.
• En un lugar donde haya humo o gran cantidad de vapor de agua.
• Cuando se la usara rápidamente la unidad de una sala fría a una templada.

En estos casos, coloque el botón POWER en ON (conectado) y espere 1 o 2 horas antes de utilizarla.
4. Ajuste del volumen
Los productos de CD producen muy poco ruido comparados con las fuentes analógicas. Si ajusta el nivel de volumen para estas fuentes, es posible que los altavoces se dañen por un aumento brusco del nivel de salida. Por ello, reduzca el volumen antes de la operación y ajustelo como desee durante la reproducción.

5. No coloque cassettes de cinta, etc., cerca de los altavoces
Como hay imanes en los altavoces, no coloque cintas o tarjetas magnéticas sobre los mismos, ya que los datos grabados pueden ser borrados.
6. Mantenga esta unidad lejos de su TV
Como esta unidad tiene un imán, puede ser afectada por la imagen de esta. Puede ser distorsionada. Si ello ocurre, mueva esta unidad lejos de la TV. Si esto no corrige el problema, evite usar esta unidad cuando el TV está encendido.

7. 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.
8. Cuando escucha con audífonos
• No use audífonos a un volumen tan alto que esto pueda dañar sus oídos.
• Por seguridad no conduzca mientras escucha esta unidad.

9. Manija para transporte
No levante ni baje la manija para transporte con la antena telescópica extendida para evitar daños de la misma. Coloque la manija para transporte de tal manera que no interfiera con la operación.
10. Cuando se transporta esta unidad, desconecte el suministro de energía si es posible, de lo contrario pueden ocurrir fallos.

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

1. Avoid installing in the following places
• Where it could be subject to vibrations.
• Where it is excessively humid, such as in a bathroom.
• Where it could be magnetized by a magnet or speaker.

2. Pay attention to dust
Be sure to close the CD holder or CD tray so that dust does not collect on the lens.
3. Condensation
In the following cases, condensation may occur in the unit in which case the unit may not operate correctly.
• In a room where a heater has just been switched on.
• In a place where there is smoke or high humidity.

• When the unit is moved directly from a cold to a warm room.
• In these cases, set the POWER button to ON and wait 1 or 2 hours before use.
4. Volume setting
CD products produce very little noise compared with analog sources. If the volume level is adjusted for these sources, the speakers may be damaged by the sudden increase of output level. Therefore, lower the volume before operation and adjust it as required during play.

5. Do not place cassette tapes, etc. near the speakers
Since there are magnets in the speakers, do not place tapes or magnetic cards on them. If this happens, the data recorded on them may be erased.
6. Keep this unit away from your TV
When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.

7. Cleaning the cabinet
If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface finish.
8. When listening with headphones
• Do not listen at high volumes as it could damage your hearing.
• For safety, do not drive while listening to this unit.

9. Carrying handle
Do not raise or lower the carrying handle with the telescopic antenna extended, to avoid damaging the antenna. Place the carrying handle so that it does not interfere with operation.
10. It is recommended to switch the power off (STANDBY) when you transport the unit.
Otherwise a malfunction may occur in the unit.

Note:
Since the speakers sound differently according to where they are placed, carefully place them for optimal effect within the length of the provided speaker cords. It is recommended that the left and right speakers be placed symmetrically in relation to the main unit.

Note:
Como los altavoces suenan diferente de acuerdo a donde sean colocados, ubíquelos con precaución para obtener un efecto óptimo dentro de la longitud de los cordones para altavoz suministrados. Se recomienda colocar los altavoces izquierdo y derecho simétricamente en relación a la unidad principal.

Remarque:
Comme les haut-parleurs sonnent différemment en fonction de l'endroit où ils sont placés, bien les placer pour obtenir l'effet optimal dans la limite de la longueur des cordons des haut-parleurs. Il est recommandé de placer les haut-parleurs gauche et droit symétriquement par rapport à l'appareil principal.

CONNECTIONS

Do not switch the power on until all connections are completed.

- When connecting the speaker cords, connect the one marked with a line to the speaker.
- Cuando conecte los cordones de los altavoces, conecte primero el cordón marcado con una línea al terminal.
- Lors du raccordement des cordons de haut-parleur, assurez-vous d'abord le fil marqué d'une ligne à la borne.

CONEXIONES

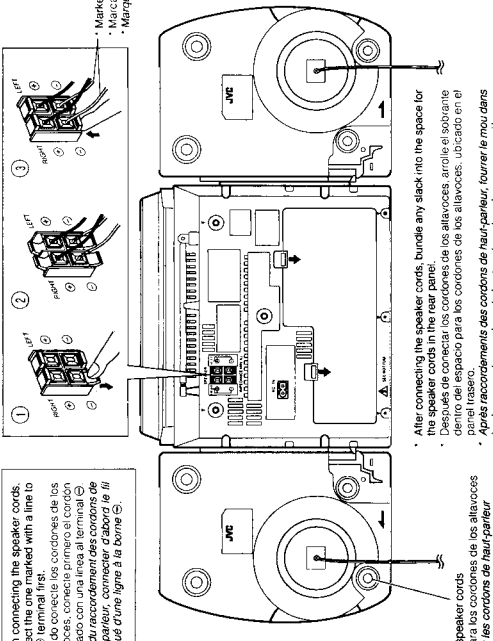
No conecte la alimentación hasta haber completado todas las conexiones.

- Como los altavoces suenan diferente de acuerdo a donde sean colocados, ubíquelos con precaución para obtener un efecto óptimo dentro de la longitud de los cordones para altavoz suministrados. Se recomienda colocar los altavoces izquierdo y derecho simétricamente en relación a la unidad principal.

RACCORDEMENTS

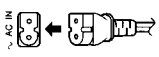
Ne pas mettre l'appareil sous tension tant que tous les raccordements ne sont pas terminés.

- Comme les haut-parleurs sonnent différemment en fonction de l'endroit où ils sont placés, bien les placer pour obtenir l'effet optimal dans la limite de la longueur des cordons des haut-parleurs. Il est recommandé de placer les haut-parleurs gauche et droit symétriquement par rapport à l'appareil principal.



POWER SUPPLY

A. Operation on household AC
Connect the AC power cord after all other connections have been made.



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

ALIMENTACION

A. Operación con CA en el hogar
Conecte el cordón de CA después de haber terminado todas las conexiones.

(For CANADA) CAUTION
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

El cordón de CA suministrado con esta unidad lleva ciertas conexiones en un solo sentido para prevenir electrocuciones eléctricas. Se refiere a la ilustración para su conexión correcta.

ALIMENTATION

A. Fonctionnement sur secteur
Brancher le cordon d'alimentation CA une fois effectués.

(Pour CANADA) ATTENTION
POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

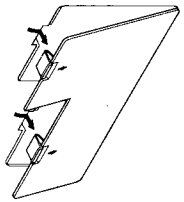
Le cordon d'alimentation secteur fourni avec cet appareil ne peut être branché que dans un seul sens afin d'éviter tout risque de choc électrique. Se référer à l'illustration pour le raccorder correctement.

CAUTIONS:

- ONLY USE WITH JVC POWER CORD. DO NOT USE WITH OTHER MAKE. MAKE SURE THE POWER CORD IS PLUGGED INTO THE MAIN POWER SOCKET.
- BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

B. Batteries for memory back-up system

It is recommended that batteries be loaded to prevent the preset station memory and timer, etc. from being erased when there is a power failure, or when the AC power cord is disconnected.



- Load three "R6/AA (15F)" size batteries (optional), into the battery compartment.

Notes:
The three "R6/AA (15F)" size batteries supply the power to the memory back-up system which prevents the contents of memory being lost when there is a power failure, or the AC power cord is disconnected. Battery power is not consumed when the AC 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 "R20/D (13F)" size batteries are not loaded, the batteries should be replaced with new ones approximately every three months. (Connect the AC power cord when replacing batteries in order to backup the memory. However, be sure to switch the power of main unit OFF.)

C. Operation on batteries

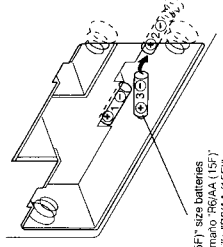
- Open the battery cover by pulling it toward the arrows.
- Be careful to insert the batteries with the ⊕ and ⊖ terminals positioned correctly.
- Replace the cover.

PRECAUCIONES:

- PARA EVITAR FALLAS O DAÑOS EN LA UNIDAD, UTILICE EL CORDON DE ALIMENTACION ORIGINAL O UN CORDON DE ALIMENTACION DE OTRA MARCA CON ESTA UNIDAD. PARA UTILIZAR EL CORDON DE ALIMENTACION EXTRAIGA LAS PILAS.
- ASEGURESE DE DESENCHUFAR EL CORDON DE ALIMENTACION DEL TOMACORRIENTES CUANDO SALGA O CUANDO NO VAYA A UTILIZAR LA UNIDAD POR UN LARGO PERIODO.

B. Pilas para el sistema de apoyo de memoria

Se recomienda instalar las pilas para evitar que se borre la memoria de estaciones presintonizadas, el temporizador, etc. cuando hay un corte de energía o cuando se desconecta el cordón de CA.



- Load three "R6/AA (15F)" size batteries (optional), into the battery compartment.

Notes:
Las tres pilas tamaño "R6/AA (15F)" suministran energía al sistema de apoyo de memoria que evita que los contenidos de la memoria se pierdan cuando hay un corte de energía, o cuando se desconecta el cordón de CA. Si se conecta el cordón de alimentación a un tomacorrientes CA, la unidad no consume la energía de las pilas. (Si se activa la función de apoyo de memoria, la unidad no indica la hora para reducir el consumo de energía.)
Si el tamaño de las pilas "R20/D (13F)" no están colocadas, las pilas deben ser reemplazadas por nuevas cada tres meses aproximadamente. (Conecte el cordón de CA para reemplazar las pilas, y apoyar la memoria. Al mismo tiempo asegúrese de desconectar OFF la alimentación de la unidad principal.)

C. Operación con pilas

- Abra la tapa del compartimento de las pilas jalándola hacia usted mientras presiona las secciones marcadas con las flechas.
- Tomar precauciones para insertar las pilas con los terminales ⊕ y ⊖ correctamente.
- Coloque la tapa.

PRECAUTIONS:

- UTILISEZ SEULEMENT AVEC LE CORDON D'ALIMENTATION JVC FOURNI AVEC CET APPAREIL. NE PAS UTILISER UN AUTRE CORDON D'ALIMENTATION. POUR UTILISER LE CORDON D'ALIMENTATION EXTRAÏRE LES PILES EN UTILISANT LE CORDON D'ALIMENTATION.
- BIEN DEBRANCHER LE CORDON D'ALIMENTATION DE LA PRISE DE COURANT QUAND VOUS SORTEZ OU QUAND VOUS N'UTILISER PAS L'APPAREIL PENDANT UNE LONGUE PERIODE.

B. Piles pour le système de soutien mémoire

Il est recommandé de mettre en place des piles pour éviter l'effacement de la mémoire des stations présélectionnées et de la minuterie, etc. quand il y a une panne de courant, ou quand le cordon d'alimentation secteur est débranché.

- Mise en place des piles: Mettez trois piles "R6/AA (15F)" (en option) dans le compartiment des piles.

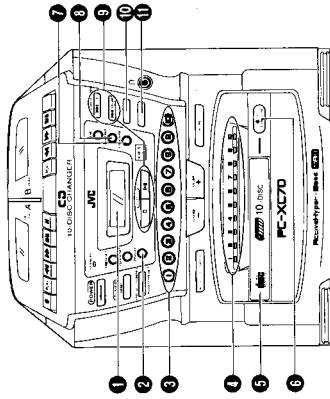
Remarques:
Les trois piles de taille "R6/AA (15F)" alimentent le système de soutien mémoire qui évite la perte du contenu de la mémoire quand il y a une panne de courant ou quand le cordon d'alimentation est débranché de la prise de courant. L'énergie des piles n'est pas consommée quand le cordon d'alimentation est branché sur le secteur. (Quand la fonction de soutien mémoire est activée, l'heure n'est pas affichée pour réduire la consommation d'énergie.)
Si le format des piles "R20/D (13F)" ne sont pas installés, les piles doivent être remplacées par des neuves environ tous les trois mois. (Brancher le cordon d'alimentation CA lors du changement des piles pour maintenir la mémoire. Toutefois, s'assurer de couper l'alimentation de l'appareil principal.)

C. Fonctionnement sur piles

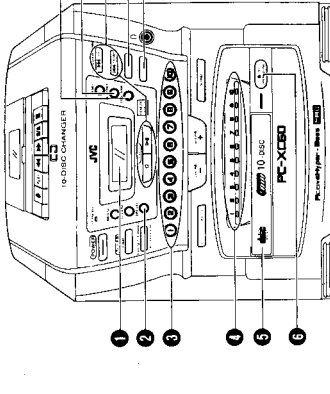
- Ouvrir le compartiment des piles en tirant le couvercle vers vous tout en appuyant sur les sections marquées de flèches.
- Prendre des précautions pour insérer les piles avec les bornes ⊕ et ⊖ positionnées correctement.
- Remettre en place le couvercle.

NAMES OF PARTS AND THEIR FUNCTIONS

CD changer section



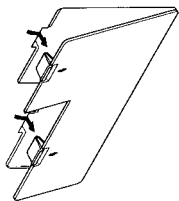
Sección del cambiador de CD



Section changeur CD

NOMBRES DE LAS PARTES Y SUS FUNCIONES

NOMS DES PIÈCES ET LEURS FONCTIONS



R20D (1.3F) size batteries
Pilas de tamaño R20D (1.3F)
Piles de taille "R20D (1.3F)"

Reemplazo de las pilas

Cuando se enciende la indicación de las pilas () durante el funcionamiento con pilas, las mismas están casi agotadas y deben ser reemplazadas. (Cuando la indicación de las pilas permanece encendida durante un minuto aprox., la alimentación de la unidad se desconecta automáticamente.)
Cuando utilice las pilas, y para evitar cualquier falta posible en la grabación o en la reproducción, se recomienda utilizar pilas alcalinas con una vida de servicio más larga.

Para una mejor utilización de las pilas
• Si el aparato se utiliza continuamente, las pilas se agotan más rápido que si se utiliza de vez en cuando.
• Si se utiliza en un lugar frío, las pilas se consumirán más rápidamente que si se utiliza en un lugar cálido.
• Para el suministro de energía se recomienda utilizar CA del hogar, cuando desee operar la unidad continuamente durante un largo periodo.

Para una mejor utilización de las pilas
• Si el aparato se utiliza en continuo sin parar, las pilas se agotan más rápidamente que si el aparato se utiliza en intermitente de tiempos en tiempos.
• Si el aparato se utiliza en un ambiente frío, las pilas se agotan más rápidamente que si el aparato se utiliza en un ambiente cálido.
• Para la alimentación, utilice el sector CA que el aparato requiere cuando el aparato está en funcionamiento durante un largo periodo.

Battery replacement
When the battery indicator lights during operation, the batteries are nearly exhausted and should be replaced. (When the battery indicator stays lit for approx. one minute, the unit is switched off.)
When operating with batteries, to avoid any possible failure in recording or playback, the use of alkaline batteries with a longer service life is recommended.

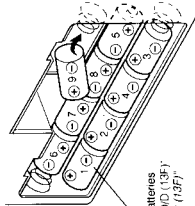
For better battery usage
Continuous operation of the unit causes the battery power to be consumed quicker than non-continuous operation.
If the unit is used in a cold place, the batteries will be consumed more quickly than in a warm place.
• For power supply, the use of household AC is recommended, when 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, REMOVE THE BATTERIES TO AVOID A MALFUNCTION OR DAMAGE TO THE UNIT.
- WHEN THE JVC POWER CORD PROVIDED WITH THIS UNIT IS CONNECTED, THE POWER IS SUPPLIED FROM THE HOUSEHOLD AC. EVEN WHEN THE BATTERIES ARE LOADED, HOWEVER, REMOVE THE BATTERIES WHEN USING THE POWER CORD.

CAUTIONS WHEN USING BATTERIES

When the battery indicator lights, 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 shown in the diagram.
• Do not mix new and old batteries together, or mix different types of batteries.
• Do not attempt to recharge non-rechargeable batteries.
• Remove the batteries when the unit is not 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.



Remplacement des piles

Quand l'indicateur de pile () s'allume en fonctionnement sur piles, les piles sont pratiquement usées et doivent être remplacées. (Si l'indicateur de pile reste allumé pendant environ une minute, l'alimentation de l'appareil est coupée.)
En fonctionnement sur piles, pour éviter toute panne possible, en enregistrant ou en lecture, l'utilisation de piles alcalines avec une durée de service plus longue est recommandée.

• Pour une meilleure utilisation des piles
• Si l'appareil est utilisé en continu sans arrêt, les piles s'usent plus rapidement que si l'appareil est utilisé en intermittente de temps en temps.
• Si l'appareil est utilisé dans un endroit froid, les piles s'usent plus rapidement que si l'appareil est utilisé dans un endroit chaud.
• Pour l'alimentation, utilisez du secteur CA que l'appareil est nécessaire pendant une longue durée.

PRECAUTIONS:

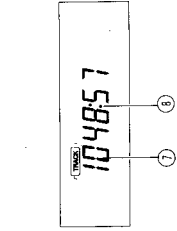
- SI L'APPAREIL N'EST PAS UTILISÉ PENDANT UNE LONGUE PÉRIODE (PLUS DE DEUX SEMAINES) OU SI L'EST TOUJOURS UTILISÉ SUR LE SECTEUR, RETIREZ LES PILES IMMÉDIATEMENT, OU DES DOMMAGES À L'APPAREIL.
- LORSQUE LE CORDON D'ALIMENTATION JVC FOURNI AVEC CET APPAREIL EST BRANCHE, L'ALIMENTATION EST AUTOMATIQUÉMENT COMMUTÉE DES PILES SUR LE SECTEUR CA. MÊME QUAND LES PILES SONT EN PLACE, PAR CONSÉQUENT, RETIREZ LES PILES EN UTILISANT LE CORDON D'ALIMENTATION.

PRECAUTIONS EN UTILISANT DES PILES

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 correctement montées sur les bornes.
• 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 enlever immédiatement avec de l'eau. Si les produits chimiques sont sur la peau ou l'appareil, nettoyer complètement l'appareil.

PRECAUTIONS 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:
• Verificar que los terminales (+) y (-) de las pilas estén correctamente colocados de acuerdo al diagrama.
• No mezcle pilas nuevas y viejas, ni mezcle 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, límpielos inmediatamente con agua. Si los productos químicos caen sobre esta unidad, límpiela completamente.



visor de indicación

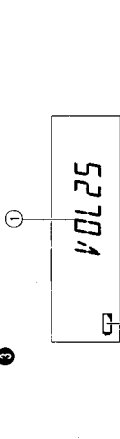
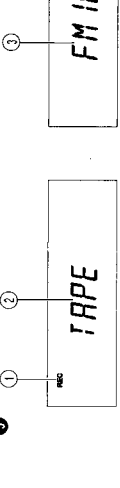
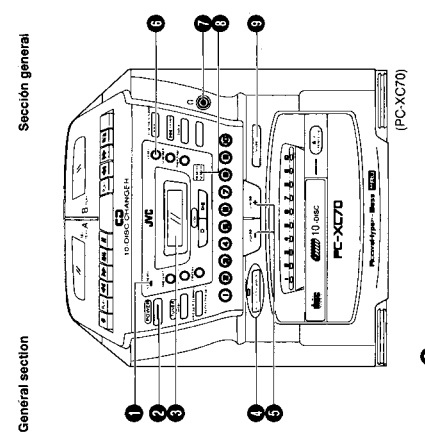
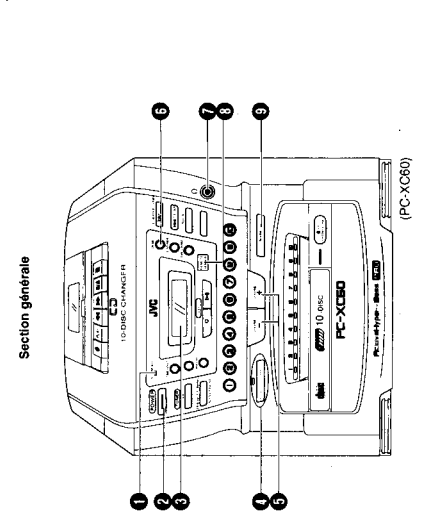
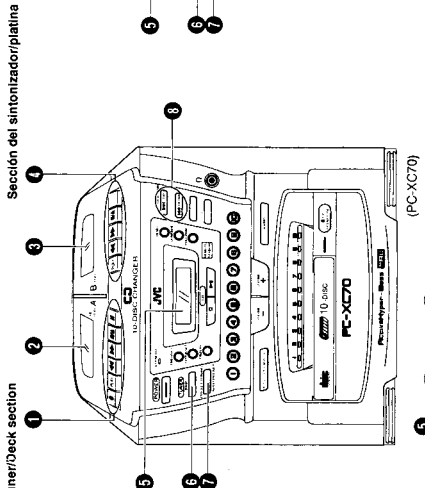
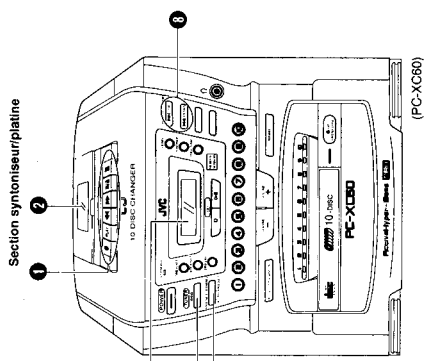
- (El visor de indicación se ilumina por detrás cuando se conecta alimentación de CA.)
- 1 Indicación de número de disco (PROGRAM)
 - 2 Indicación de modo de programa (PROGRAM)
 - 3 Indicador de reproducción continuada (CONTINUE)
 - 4 Indicador de todos los discos (ALL DISC)
 - 5 Indicador de reproducción aleatoria (RANDOM)
 - 6 Indicador de repetición de reproducción total (ALL)
 - 7 Indicación de función/número de disco/número de pista
 - 8 Indicación del número de pista/tempo
 - 9 Botón DISPLAY
 - 10 Botones de control de CD (CD CONTROL) (DISC 1-DISC 10)
 - 11 Indicadores del cambiador de 10 CD
 - 12 Botón de programa (PROGRAM)
 - 13 Botón de lectura/parada (OPEN/CLOSE)
 - 14 Botón de lectura/parada (OPEN/CLOSE)
 - 15 Botón de reproducción continuada (CONTINUE)
 - 16 Botón de reproducción (PLAY)
 - 17 Botón de parada/borrado
 - 18 Presiónelo para detener la reproducción de un CD o para cancelar la reproducción programada.
 - 19 Botones () de búsqueda (SEARCH) del CD.
 - 20 Presiónelos para ubicar el principio de una pista o para iniciar las operaciones de reproducción de una adelantadas.
 - 21 Botón TRACK
 - 22 Botón +10

Display window

- (Backlit when AC power is supplied.)
- 1 Disc number display
 - 2 Program mode indicator (PROGRAM)
 - 3 ALL DISC indicator
 - 4 RANDOM play indicator
 - 5 Repeat play indicator (ALL)
 - 6 Function/Disc number/Track number display
 - 7 TRACK number/Playback time display
 - 8 DISPLAY button
 - 9 CD CONTROL buttons (DISC 1-DISC 10)
 - 10-CD changer indicators
 - 11 CD tray
 - 12 CD tray (A) OPEN/CLOSE button
 - 13 CONTINUE button
 - 14 PLAY button
 - 15 PROGRAM button
 - 16 OPEN/CLOSE button
 - 17 STOP button
 - 18 Press to play a CD or to stop temporarily. Stop/clear button ()
 - 19 Press to stop playing a CD or cancel programmed play.
 - 20 CD SEARCH buttons ()
 - 21 Press to locate the beginning of a track and to start forward/reverse search operations.
 - 22 TRACK button
 - 23 +10 button

Fenêtre d'affichage

- (Retro-éclairée quand l'alimentation CA est fournie.)
- 1 Affichage de numéro de disque (PROGRAM)
 - 2 Affichage de mode programmé (PROGRAM)
 - 3 Indicateur de lecture CONTINUE
 - 4 Indicateur tous les disques (ALL DISC)
 - 5 Indicateur de lecture aléatoire (RANDOM)
 - 6 Indicateur de lecture répétée (ALL)
 - 7 Affichage de fonction/número de disque/número de piste
 - 8 Affichage de número de piste/durée de lecture (DISPLAY)
 - 9 Touches de commande CD (CD CONTROL) (DISC 1-DISC 10)
 - 10 Indicateurs changeur 10 CD
 - 11 Touche d'ouverture/fermeture (OPEN/CLOSE) (A) du tiroir CD
 - 12 Touche de programme (PROGRAM)
 - 13 Touche de lecture/arrêt (OPEN/CLOSE)
 - 14 Touche de lecture/arrêt (OPEN/CLOSE)
 - 15 Touche de lecture/pause (= II)
 - 16 Touche de lecture/pause (= II)
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 - 19 Touche de lecture/pause (= II)
 - 20 Touche de lecture/pause (= II)
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 - 95 Touche de lecture/pause (= II)
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 - 97 Touche de lecture/pause (= II)
 - 98 Touche de lecture/pause (= II)
 - 99 Touche de lecture/pause (= II)
 - 100 Touche de lecture/pause (= II)



1 Boutons de fonctionnement cassette
 ○ REC: Appuyer sur cette touche avec la touche **▶** PLAY pour lancer l'enregistrement.
 ▶ **▶** PLAY: Appuyer pour lire la bande.
 ◀ **◀** REW: Appuyer pour rembobiner rapidement la bande.
 ▶ **▶** FF: Appuyer pour faire défiler rapidement la bande en avant.
 ■ **▲** STOP/EJECT: Appuyer sur cette touche quand la bande est arrêtée pour ouvrir le porte cassette.
 ■ **■** PAUSE: Appuyer pour arrêter momentanément la bande, relâcher le mode de pause.
2 Porte cassette (Platine A)
 Porte cassette
3 (PC-XC80 uniquement)
 Porte cassette (Platine B)
4 (PC-XC80 exclusivement)
 Boutons de fonctionnement cassette
 ▶ **▶** PLAY: Appuyer pour lire la bande.
 ◀ **◀** REW: Appuyer pour rembobiner rapidement la bande.
 ▶ **▶** FF: Appuyer pour faire défiler rapidement la bande en avant.
 ■ **▲** STOP/EJECT: Appuyer sur cette touche quand la bande est arrêtée pour ouvrir le porte cassette.
5 Fenêtre d'affichage pour enregistrement (REC)
 ① Affichage de la bande (TAPE)
 ② Indicateur de gamme
 ③ Affichage de la fréquence radio
 ④ Indicateur stéréo (STEREO)
 ⑤ Indicateur mono (MONO)

1 Botones de operación del cassette
 ○ REC: Presione este botón conjuntamente con el botón **▶** PLAY para iniciar la grabación.
 ▶ **▶** PLAY: Presione para reproducir la cinta.
 ◀ **◀** REW: Presione para rebobinar rápidamente la cinta.
 ▶ **▶** FF: Presione para adelantar rápidamente la cinta.
 ■ **▲** STOP/EJECT: Presione para detener la cinta cuando la cinta está detenida abriendo el portacassetes.
 ■ **■** PAUSE: Presione para detener la cinta temporalmente.
2 Portacassetes (Platina A)
 Portacassetes (Platina B)
3 (PC-XC80 exclusivamente)
 Portacassetes (Platina B)
4 (PC-XC80 exclusivamente)
 Botones para operación del cassette
 ▶ **▶** PLAY: Presione para reproducir la cinta.
 ◀ **◀** REW: Presione para rebobinar rápidamente la cinta.
 ▶ **▶** FF: Presione para adelantar rápidamente la cinta.
 ■ **▲** STOP/EJECT: Presione para detener la cinta cuando la cinta está detenida abriendo el portacassetes.
5 Ventanilla de indicación
 ① Indicador de grabación (REC)
 ② Indicador del modo de cinta (TAPE)
 ③ Indicador de banda
 ④ Indicador de frecuencia de radio
 ⑤ Indicador estereofónico (STEREO)
 ⑥ Indicador monofónico (MONO)

1 Cassette operation buttons
 Press this button with the **▶** PLAY button to start recording.
 ▶ **▶** PLAY: Press to play the tape.
 ◀ **◀** REW: Press to rewind the tape rapidly.
 ▶ **▶** FF: Press to wind the tape forward rapidly.
 ■ **▲** STOP/EJECT: Press to stop the tape. Pressing this button when the cassette has stopped opens the cassette holder.
 ■ **■** PAUSE: Press to stop the tape temporarily. Press again to release the pause mode.
2 Cassette holder (Deck A)
 Cassette holder (Deck B)
3 Cassette holder (Deck B)
4 (PC-XC70 only)
 Cassette holder (Deck B)
5 (PC-XC70 only)
 Cassette operation buttons
 ▶ **▶** PLAY: Press to play the tape.
 ◀ **◀** REW: Press to rewind the tape rapidly.
 ▶ **▶** FF: Press to wind the tape forward rapidly.
 ■ **▲** STOP/EJECT: Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.
6 Display window
 ① Recording indicator (REC)
 ② Tape (TAPE) mode display
 ③ Band indicator
 ④ Radio frequency display
 ⑤ STEREO indicator
 ⑥ MONO indicator

1 Indicateur d'attente d'alimentation (STANDBY)
2 Touche d'alimentation (POWER)
3 Touche d'affichage
 ① Indicateur de niveau VOLUME
 ② Indicateurs de mode de démonstration
 ③ Indicateur des piles (☐)
 • Voir page 33 pour le réglage de l'horloge.
4 Touche hyper grave actif pro (ACTIVE HYPER-BASS PRO) et indicateur
5 Touches de VOLUME (+, -)
6 Touche DEMO
 • Prise de casque d'écoute (☐) (mini stéréo de 3,5 mm de diamètre)
 • Connectez les écouteurs (impédance de 16 Ω à 1 kΩ) à cette prise. Les haut-parleurs seront automatiquement coupés quand le casque est branché.
7 Section de détection de télécommande (REMOTE SENSOR)
8 Touche de son (SOUND)

1 Indicador de espera (STANDBY) de alimentación
2 Botón de alimentación (POWER)
3 Botón de indicación
 ① Indicador de nivel VOLUME
 ② Indicaciones del modo de demostración
 ③ Indicador de pilas (☐)
 • Para el ajuste del reloj, vea la página 33.
4 Botón e indicador de hiper grave activo profesional (ACTIVE HYPER-BASS PRO)
5 Botones de volumen (VOLUME) (+, -)
6 Botón DEMO
 • Toma de audífonos (☐) (mini estereo de 3,5 mm de diámetro)
 • Conecte los audífonos (impedancia de 16 Ω a 1 kΩ) a este jack. El sonido de los altavoces se apaga automáticamente cuando se conectan los audífonos.
7 Sección de sensor remoto (REMOTE SENSOR)
8 Botón SOUND

1 Power STANDBY indicator
2 POWER button
3 Display window
 ① VOLUME indicator
 ② Sound mode indicators
 ③ Battery indicator (☐)
 • See page 33 for the clock adjustment.
4 ACTIVE HYPER-BASS PRO button and indicator
5 VOLUME buttons (+, -)
6 DEMO button
7 Headphones jack (☐) (3.5 mm dia. stereo)
 • Connect headphones (impedance 16 Ω to 1 kΩ) to this jack. Speaker sound is automatically switched off when the headphones are connected.
8 REMOTE SENSOR section
9 SOUND button

1 Indicateur de sintonisation/réglage
 ① Affichage de la bande (TAPE)
 ② Indicateur de gamme
 ③ Affichage de la fréquence radio
 ④ Indicateur stéréo (STEREO)
 ⑤ Indicateur mono (MONO)

1 Botones de operación del cassette
 ○ REC: Presione este botón conjuntamente con el botón **▶** PLAY para iniciar la grabación.
 ▶ **▶** PLAY: Presione para reproducir la cinta.
 ◀ **◀** REW: Presione para rebobinar rápidamente la cinta.
 ▶ **▶** FF: Presione para adelantar rápidamente la cinta.
 ■ **▲** STOP/EJECT: Presione para detener la cinta cuando la cinta está detenida abriendo el portacassetes.
 ■ **■** PAUSE: Presione para detener la cinta temporalmente.
2 Portacassetes (Platina A)
 Portacassetes (Platina B)
3 (PC-XC80 exclusivamente)
 Portacassetes (Platina B)
4 (PC-XC80 exclusivamente)
 Botones para operación del cassette
 ▶ **▶** PLAY: Presione para reproducir la cinta.
 ◀ **◀** REW: Presione para rebobinar rápidamente la cinta.
 ▶ **▶** FF: Presione para adelantar rápidamente la cinta.
 ■ **▲** STOP/EJECT: Presione para detener la cinta cuando la cinta está detenida abriendo el portacassetes.
5 Ventanilla de indicación
 ① Indicador de grabación (REC)
 ② Indicador del modo de cinta (TAPE)
 ③ Indicador de banda
 ④ Indicador de frecuencia de radio
 ⑤ Indicador estereofónico (STEREO)
 ⑥ Indicador monofónico (MONO)

Utilisation du boîtier de télécommande

- Pointer le boîtier de télécommande vers la section REMOTE SENSOR 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 télécommande REMOTE SENSOR à une lumière directe de soleil ou à une lumière artificielle. S'assurer qu'il n'y a pas d'obstacles entre la section du détecteur de télécommande et la télécommande.

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

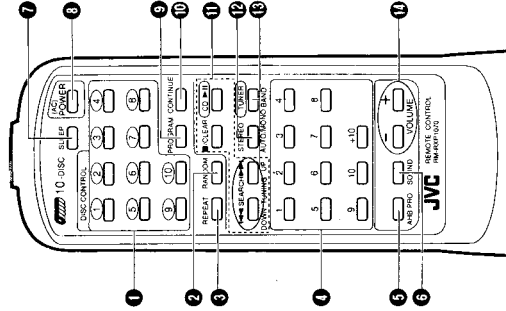
- Bien étudier les fonctions des touches de fonctionnement et les utiliser correctement.

Utilización de la unidad de control remoto

- Apuntar hacia el sensor REMOTE SENSOR y haga la función dentro de un radio de 7 m. aprox.
- El radio de acción del controlador remoto es menor cuando se lo apunta en ángulo.
- No exponga el REMOTE SENSOR a la luz directa del sol o a fuerte iluminación artificial. Asegúrese de que no haya obstáculos entre el REMOTE SENSOR y el controlador remoto.

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

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



Using the remote control unit

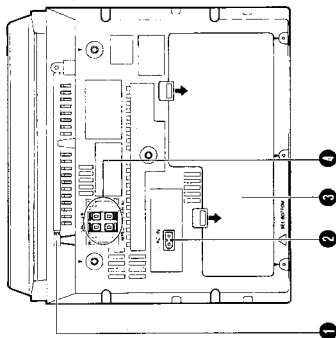
- Point at the REMOTE SENSOR section and operate within about 7 m (approx. 23 ft).
- The remote control range is less when the unit is used at an angle.
- Do not expose the REMOTE SENSOR section to strong direct sunlight or artificial lighting.
- Make sure that there are no obstacles between the REMOTE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

- 6. **Touche de sintoniseur/gamme (TUNER/BAND)**
Appuyer pour sélectionner le mode sintoniseur.
- 7. **Appuyer pour sélectionner la gamme.**
- 8. **Appuyer pour sélectionner la bande.**
- 9. **Appuyer pour sélectionner le mode de sintonisation/présélection automatique (PRESET TUNING/AUTO TUNING/AUTO PRESET).**
- 10. **Appuyer pour sélectionner le mode de sintonisation (UP/DOWN).**

Panneau arrière



- 1. Antenne télescopique
- 2. Jack AC IN (entrée de CA)
- 3. Couverture du compartiment de piles
- 4. Bornes de haut-parleur (SPEAKER)
- 5. Connecter les terminaux des haut-parleurs fournis à ces bornes.

- 6. **Botón sintonizador/banda (TUNER/BAND)**
Presione para seleccionar el modo de sintonizador.
- 7. **Botón de presentación/présélection automática (PRESET TUNING/AUTO PRESET)**
- 8. **Botones arriba/abajo de sintonización (UP/DOWN)**

Panel trasero

- 1. Telescopic antenna
- 2. AC IN (AC input) jack
- 3. Battery compartment cover
- 4. SPEAKER terminals
- 5. Connect the provided speakers to these terminals.

- 6. **TUNER/BAND button**
Press to select tuner mode.
- 7. **PRESET TUNING/AUTO PRESET button**
- 8. **Tuning buttons (UP/DOWN)**

BOTIER DE TELECOMMANDE

Préparatifs avant utilisation

- Mise en place des piles dans le boîtier de télécommande
 1. Retirer la couverture des piles du dos du boîtier.
 2. Insérer deux piles de taille "R6(AA (1.5V))".
 3. Remettre en place la couverture.

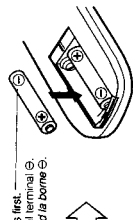


- Remplacement des piles
Si le fonctionnement de la télécommande devient instable ou si la distance de fonctionnement devient plus courte, remplacer les piles.

UNIDAD DE CONTROL REMOTO

Preparativos antes usarla

- Instalación de las pilas en la unidad de control remoto
 1. Extraiga la tapa de las pilas de la parte trasera de la unidad de control remoto.
 2. Inserte dos pilas de tamaño "R6(AA (1.5V))".
 3. Coloque la tapa.



- Reemplazo de las pilas
Cuando el funcionamiento del controlador remoto se vuelve inestable o la distancia de funcionamiento se reduce, reemplace las pilas.

REMOTE CONTROL UNIT

Preparation before use

- Installing batteries in the remote control unit
 1. Remove the battery cover from the back of the remote control unit.
 2. Insert two "R6(AA (1.5V))" size batteries.
 3. Replace the cover.



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

- 1. Touches de commande CD (CD CONTROL) (DISC + DISC 10)
- 2. Touche de lecture aléatoire (RANDOM)
- 3. Touche de lecture répétée (REPEAT)
- 4. Touches de numéro de piste (No. 1 à No. 10, +10)
- 5. Touches des stations préétablies (No. 1 à No. 10, +10)
- 6. Touche hyper grave actif pro (ACTIVE HYPER-BASS PRO)
- 7. Touche de son (SOUND)
- 8. Touche d'alimentation secteur (POWER (AC))
- 9. Lorsque l'alimentation est fournie par les piles, cette touche POWER (AC) ne peut pas mettre en marche l'appareil principal. (Dans ce cas, mettez d'abord en marche la touche POWER de l'appareil principal.)
- 10. Touche de programme (PROGRAM)
- 11. Touche de lecture CONTINUE

- 1. Botones de control de CD (CD CONTROL) (DISC + DISC 10)
- 2. Botón de reproducción aleatoria (RANDOM) (REPEAT)
- 3. Botón de reproducción de reproducción (REPEAT)
- 4. Botones (No. 1 a No. 10, +10) de número de pista
- 5. Botones (No. 1 a No. 10, +10) de estación preestablecida
- 6. Botón de hiper grave activo profesional (ACTIVE HYPER-BASS PRO)
- 7. Botón SOUND
- 8. Botón de temporizador de desconexión (SLEEP)
- 9. Botón de alimentación de CA (POWER (AC)) proviene de pilas, el botón POWER (AC) no funciona como alimentación de la unidad principal. (En este caso, primero presione el botón POWER de la unidad principal.)
- 10. Botón programa (PROGRAM)
- 11. Botón de reproducción continuada (CONTINUE)

- 1. CD CONTROL buttons (DISC + DISC 10)
- 2. RANDOM play button
- 3. REPEAT play button
- 4. Track number buttons (No. 1 to No. 10, +10)
- 5. Preset station buttons (No. 1 to No. 10, +10)
- 6. SOUND button
- 7. SLEEP button
- 8. POWER (AC) button
- 9. When the main unit power is supplied from batteries, this POWER (AC) button cannot turn on main unit power. (In this case, switch on the POWER button of the main unit.)
- 10. PROGRAM button
- 11. CONTINUE play button

COMPU PLAY (solo cuando se usa CA)
 Cuando la alimentación está colocada en STANDBY, al presionar el botón modificado abajo conecta la alimentación y selecciona la fuente.

COMPU PLAY (only when AC power is used)
 Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

COMPU PLAY (seulement lorsqu'on utilise l'alimentation CA est utilisée)
 Même lorsque l'alimentation est réglée sur STANDBY, une pression sur la touche modifiée ci-dessous met l'alimentation sur marche et sélectionne la source.

| Function mode / Mode fonction | Operations / Opérations |
|-------------------------------|--|
| CD | When this button is pressed with a CD loaded, CD playback begins. When this button is pressed with a tape loaded, tape playback begins. Cuando se presiona este botón habiendo un CD colocado, comienza la reproducción de la misma. Lorsque cette touche est pressée avec un disque audio numérique 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 misma. 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, se activa el sintonizador. Lorsque cette touche est pressée, le sintoniseur est engagé. |

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

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

Notas:
 • Cuando aparece el indicador (C) del temporizador, la alimentación de esta unidad no se conecta aun cuando se presione el botón PLAY de la pilaña.

Remarques:
 Lorsque l'affichage de minuterie (C) est montré, l'alimentation de cet appareil n'est pas mise, même si la touche PLAY de la pile est pressée.

VOLUME, TONALITE ET AUTRES COMMANDES

Botones de volumen (VOLUME)
 + : Usado para aumentar el volumen.
 - : Usado para reducir el volumen.
 (Los límites de control van de VOL 0 a VOL 25).

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

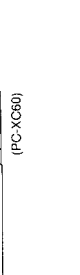
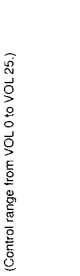
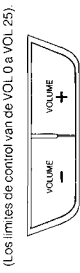
ACTIVE HYPER-BASS PRO button ON
 The ACTIVE HYPER-BASS PRO indicator lights up. Set to this position to activate ACTIVE HYPER-BASS PRO sound.
OFF: The ACTIVE HYPER-BASS PRO indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

VOLUMEN, TONO Y OTROS CONTROLES

Botones VOLUME
 + : Usado para aumentar el volumen.
 - : Usado para reducir el volumen.
 (Los límites de control van de VOL 0 a VOL 25).

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

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



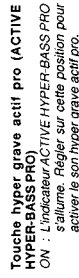
SWITCHING THE POWER ON/OFF

POWER button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

POWER button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

POWER button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

POWER button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).



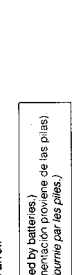
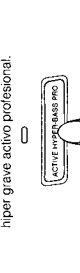
CONEXION/DESCONEXION DE LA ALIMENTACION

PLAY button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

PLAY button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

PLAY button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

PLAY button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).



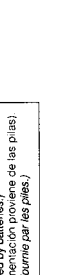
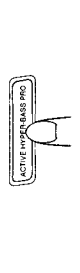
COMMUTATION MARCHÉ/ARRÊT DE L'ALIMENTATION

PLAY button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

PLAY button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

PLAY button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).

PLAY button
 Press to play a CD or to stop temporarily. Reproduce/STOP buttons. STEREO AUTO/MONO button. Press to select the band. Tuning buttons (UP/DOWN). VOLUME buttons (+, -).



MANIPULATION DES DISQUES AUDIONUMÉRIQUES

MANIPULACION DE CD

HANDLING CDS

Comme les saletés, des disques endommagés ou gonflés peuvent provoquer des dommages à l'appareil, faire attention aux points suivants:

- Disques audionumériques utilisables**
Utiliser des disques portant la marque montrée.
 - Remarques sur la manipulation des disques**
 - Ne pas toucher la surface enregistrée et réfléchissante.
 - Ne rien coller ni écrire sur la face portant l'étiquette.
 - Ne pas exposer les disques en plein soleil, à l'humidité, à la chaleur ou aux frottements d'un appareil de chauffage, dans les endroits très humides ou sales.
 - Stockage**
 - Après retrait d'un disque de l'appareil, s'assurer de bien le remettre dans son boîtier.
 - Ne pas exposer les disques en plein soleil, à l'humidité, à la chaleur ou aux frottements d'un appareil de chauffage, dans les endroits très humides ou sales.
 - Nettoyage d'un disque**
 - Avant de charger un disque, essayer 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.
- No jamais utiliser de diluant, de benzine, ou un jet pulvérisé antistatique, du nettoyage pour les disques analogiques ou un jet pulvérisé antistatique.

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

- CD utilizables**
Utilice CD con la marca indicada.
 - Notas sobre manipulación de CD**
 - No toque la superficie grabada ni la parte que refleja la luz.
 - No pegue ni escriba nada sobre el lado de la etiqueta.
 - No doble los CD.
 - Almacenamiento**
 - Después de extraer un CD de la unidad, asegúrese de colocarlo otra vez en su caja.
 - No exponga los CD a la luz directa del sol, a altas temperaturas, a la humedad, o a la calefacción, etc., alta humedad, o polvo.
 - Limpieza de CD**
 - Antes de colocar un CD, limpie el polvo, suciedad o huellas digitales con un paño suave. Los CD deben ser limpiados radialmente desde el centro hacia el borde.
- Nunca utilice solvente, bencina, limpiador de discos o aerosol antistático.

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

- Usable CDs**
Use CDs with the mark shown.
 - Notes on handling CDs**
 - Do not touch the reflective recorded surface.
 - Do not stick or write anything on the label side.
 - Do not bend CDs.
 - Storage**
 - After removing a CD from the unit, be sure to put it back in its case.
 - Do not expose CDs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.
 - Cleaning CDs**
 - Before loading a CD, wipe off any dust, dirt or fingerprints with a soft cloth. CDs should be cleaned by wiping radially from the center to the edge.
- Never use thinner, benzine, limpiador or antistatic spray.

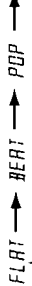
Touche de mode de son
Les modes de son peuvent être sélectionnés pour relever le type de musique lu.

- 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:



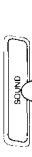
Botón de modo de sonido
Los modos de sonido pueden ser seleccionados para realizar el tipo de música que está siendo reproducida.

- Presione el botón **SOUND** para seleccionar el modo de sonido.
- Cada vez que presiona el botón **SOUND**, el modo de sonido cambia de la siguiente manera:



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

- Press the **SOUND** button to select the sound mode.
- Each time the **SOUND** button is pressed the sound mode changes as follows:



Selección del modo de sonido (FLAT) (Sin efectos de sonido (características plates)):
Réglér sur cette position en écoutant de la musique classique.

BEAT:
Réglér sur cette position pour de la musique avec un rythme important, telle la musique rock ou disco.

POP:
Réglér sur cette position pour de la musique légère comprenant la musique populaire et vocale.

CLEAR:
Réglér sur cette position pour de la musique somment clair et net avec des aigus marqués.

LIVE:
Réglér sur cette position pour le son de la musique de jazz en vivo.

Selección del modo de sonido (FLAT) (Sin efectos de sonido (característica plana)):
Colóquelo en esta posición cuando escucha música clásica.

BEAT:
Colóquelo en esta posición para música con ritmo pesado tal como rock o música de música pop.

POP:
Colóquelo en esta posición para música leve incluyendo música popular y vocal.

CLEAR:
Colóquelo en esta posición para música con sonido contrastado y nitido, con aitos transparentes.

LIVE:
Colóquelo en esta posición para sonido de música de jazz en vivo.

Sound mode selection (FLAT characteristics):
Set to this position when listening to classical music.

BEAT:
Set to this position for music with a heavy beat, such as rock or disco music.

POP:
Set to this position for light music, including pop and vocal music.

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

LIVE:
Set to this position for the sound of live jazz music.

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

Touche de mode de démonstration
Lorsqu'il est utilisé, l'alimentation CA est branchée à une prise secteur. L'appareil passe automatiquement en mode de démonstration. Quand vous appuyez sur la touche DEMO alors que l'alimentation de l'appareil est coupée, il passe également en mode de démonstration. Des indicateurs dans la fenêtre d'affichage changent les uns après les autres et les indicateurs de changer 10 CD digitalement. Le mode DEMO et l'alimentation de l'appareil sera coupée.

• Le mode de démonstration est annulé automatiquement après avoir été engagé pendant 12 heures consécutives.

Botón de modo de demostración (solo cuando se usa alimentación CA)
Cuando se utiliza la alimentación CA, en el momento en que se enchufa el cable de alimentación al enchufe de CA, la unidad activa automáticamente el modo de demostración. Cuando usted presiona el botón DEMO, mientras la alimentación de la unidad está desconectada, la misma activa el modo de demostración. Las indicaciones en el visor de indicación cambian en sucesión y las indicaciones del cambiador de 10 CD parpadearán. Para cancelar este modo presione el botón DEMO y se desconectará la alimentación de l'appareil.

• El modo de demostración queda automáticamente desactivado después de estar activado durante 12 horas consecutivas.

Demo mode button (only when AC power is used)
When the AC power cord is plugged into an AC outlet, the unit enters the demo mode. When you press the DEMO button while the unit's power is switched off, it also enters the demo mode. Indicators on the display window change in succession and the 10-CD changer indicators blink. To cancel this mode, press the DEMO button and the unit's power will be switched off.

• The demo mode is automatically cancelled after being engaged for 12 hours consecutively.

Touche DISPLAY
En utilisant le mode disques, l'affichage montre la suite quand les disques ne tournent pas avec cette touche pressée.

Botón DISPLAY
Cuando se usa el modo CD, la indicación muestra lo siguiente cuando los CD no giran y este botón está presionado.

DISPLAY button
When using the CD mode, the display shows the following when CDs are not rotated with this button pressed:

Total number of tracks / Número total de pistas: 10
 Total playback time / Durée totale de lecture: 48:57
 Track number / Número de pistas: 07
 Track number / Número de pistas: 01

• L'affichage montre la suite quand les disques sont lus avec cette touche pressée.

• Displays elapsed playback time of each tune being played back. Se visualiza el tiempo transcurrido de reproducción de cada melodía. Afijado de la durée de lecture écoulée de chaque morceau lu.

Removing the CD from its storage case and loading it.
 Extracción del CD de su caja y colocación del mismo.
 Retrait du disque du boîtier de rangement et mise en place.

Press the center and lift out.
 Presione el centro y levante el disco.
 Appuyer au milieu et lever.

Handling / Manipulation / Nettoyage
 Correct / Correcto / Correct
 Incorrect / Incorrecto / Incorrect

PLAYING CDS

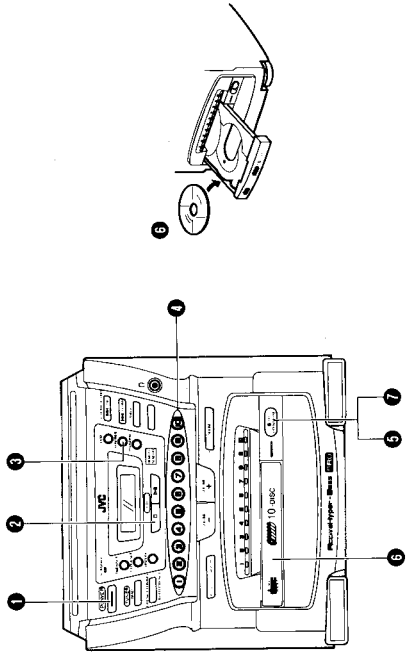
REPRODUCCION DE CD

LECTURE DE DISQUES AUDIONUMERIQUES

Loading CDS

Colocación de CD

Mise en place des disques



- 1 Set the POWER button to ON.
- 2 Press the \square button to set to the CD mode.
- 3 Set the continuous play mode to off.
- 4 Press the required CD CONTROL button (No. 1 to No. 10).
- 5 Press the CD tray (A) OPEN/CLOSE button.
- 6 Press the CD tray (A) OPEN/CLOSE button to open the CD tray and unload the CD.
- 7 Press the CD tray (A) OPEN/CLOSE button to close the CD tray.

- Repeat the procedure 4 through 7.

Notes:

- Be sure to load CDs one at a time and place each CD correctly on the CD tray to prevent a malfunction. Never load multiple CDs on the CD tray at one time.
- 8 cm (3-3/16") CDs can not be used in this unit.

Unloading CDS

- 1 Press the required CD CONTROL button of the CD to be unloaded.
- 2 Press the CD tray (A) OPEN/CLOSE button to open the CD tray and unload the CD.
- 3 Repeat procedure 1 and 2 to unload the other CDs.

When the operation stops.

- Switch the power OFF (STANDBY) and ON again.

- 1 Coloque el botón POWER en ON.
- 2 Presione el botón \square para activar el modo CD.
- 3 Desactive el modo de reproducción continua.
- 4 Presione el botón CD CONTROL correspondiente (No. 1 a No. 10).
- 5 Presione el botón OPEN/CLOSE (A) del portadisco de CD.
- 6 Coloque un CD con el lado de la etiqueta apuntando hacia arriba.
- 7 Presione el botón OPEN/CLOSE (A) del portadisco de CD para cerrarlo.

- Repita el procedimiento de 4 a 7.

Notes:

- Cuando coloque los CD, asegúrese de colocarlos uno por uno correctamente en el portadisco para evitar fallos de funcionamiento. Nunca coloque varios CD en el portadisco de una sola vez.
- Los CD de 8 cm no pueden producir fallos de funcionamiento.

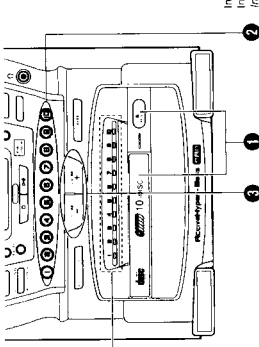
Extracción de CD

- 1 Presione el botón CD CONTROL correspondiente al CD a ser extraído.
- 2 Presione el botón OPEN/CLOSE (A) del portadisco de CD para abrir el portadisco y extraer el CD.
- 3 Repita el procedimiento 1 y 2 para extraer otros CD.

Cuando la operación para desconectar el funcionamiento (espera) y conecta ON otra vez.

(Example: When playing back a CD loaded in the Disc 1 position)

Operate in the order shown



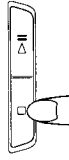
The disc number indicator corresponding to the CD being played back blinks. La indicación de número de disco correspondiente al CD que está siendo reproducido parpadeará. L'indicateur de numéro de disque correspondant au disque en lecture clignotera.

- 1 Load the required CD into the CD changer. (See page 19).
- 2 Press the required CD CONTROL button (DISC 1) to start playback.
- 3 Adjust.

Note: When the POWER button is set to STANDBY, or another mode (TAPE or TUNER) is selected, the last CD played is stored in memory. The same CD will be played when the power is switched on again and the \triangleright II button is pressed.

- When a CD CONTROL button is pressed with a CD loaded in the Disc 1 position, the disc number corresponding to the "no DISC" is displayed and the disc number display and 10-CD changer indicator go out.

To stop in the middle of a CD
During play, press the stop/advance (-) button to stop play.



To stop a CD temporarily

Press the \triangleright II button to stop play temporarily. The indicators corresponding to the CD being played back blink, and the play resumes when the button is pressed again.

Notes:

- The following indication may appear when a CD is dirty or scratched, or when the CD is loaded upside down.
- Répéter la procédure 1 et 2 pour relancer les autres disques.

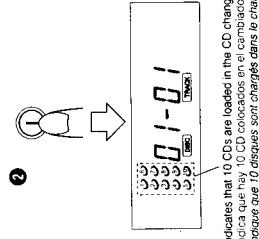


Do not use the unit at excessively high or low temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).

- Caution (alimentation (STANDBY) puis la remettre.
- Il instacking occurs during play, lower the reproduction, base el volumen.

(Ejemplo: Cuando reproduce un CD colocado en la posición disco 1)

Opere en el orden mostrado



Indicates that 10 CDs are loaded in the CD changer. Indica que hay 10 CD colocados en el cambiador de CD. Indique que 10 disques sont chargés dans le changeur CD.

- 1 Charger le disque voulu dans le changeur de CD. (Voir page 19).
- 2 Appuyer sur la touche CD CONTROL correspondante (DISC 1) pour lancer la lecture.
- 3 Régler.

Remarque: Lorsque la touche POWER est réglée sur STANDBY, ou qu'un autre mode (TAPE ou TUNER) est sélectionné, le dernier disque lu est mis en mémoire. Le même disque sera lu quand l'alimentation est remise et que la touche \triangleright II est pressée.

- Si une touche CD CONTROL est pressée sans disque chargé dans la position de disque correspondant au No. de la touche, no DISC est affiché et l'indicateur de changeur 10 CD disparaissent.

Pour arrêter au milieu d'un disque
Pendant la lecture, appuyer sur la touche d'arrêt/avance (-) pour arrêter la lecture.



The total number of tracks. El número total de pistas. Le nombre total de pistes.

Pour arrêter momentanément un disque
Appuyer sur la touche \triangleright II pour arrêter momentanément la lecture. Les indicateurs correspondant au disque en cours de lecture clignotent. Une nouvelle pression fait reprendre la lecture au point où elle avait été arrêtée.

Remarques:

- L'indication suivante peut apparaître quand un disque est sale ou rayé, ou si le disque est monté sans disque dessus. En ce cas, appuyer sur la touche d'arrêt et mettre en place à nouveau et nettoyer ou changer le disque.

Ne pas utiliser l'appareil à des températures trop hautes ou trop basses. La température recommandée est comprise entre 5°C et 35°C.

- Si une perte d'alimentation se produit en cours de lecture, baisser le volume.

- Misrouting may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

Skip play

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

To listen to the next track...

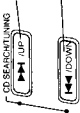
Press the **▶▶** button once to skip to the beginning of the next track.

To listen to the previous track...

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

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

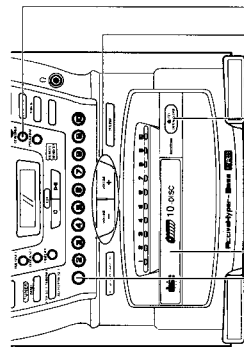
- The required position can be located using fast-forward or reverse search while playing a CD.



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

Continuous play

How to play all tracks
Operate in the order shown



- 1 Load the required CDs in the CD changer. (See page 19.)
 - 2 Press the **INC.** CD CONTROL button to start play.
 - 3 Press the **CONTINUE** button to set to continuous play mode.
 - 4 Adjust.
- CD play starts from Disc 1 and continues to the last track of the last CD in the CD changer.

- Los errores de seguimiento pueden ocurrir si la unidad recibe un choque fuerte o si se usa en un lugar sujeto a vibración (ej.: un automóvil en marcha en una carretera irregular).

Reproducción con salto

- Durante la reproducción es posible saltar hacia adelante hasta el principio de la 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...

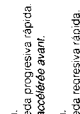
Presione una vez el botón **▶▶** para saltar al principio de la próxima pista.

Para escuchar la pista anterior...

Presione el botón **◀◀** para saltar 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)

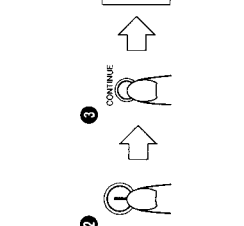
- La posición deseada puede ser ubicada utilizando la búsqueda de avance rápido o inversa mientras reproduce un CD.



- Mantenga presionado el botón de búsqueda de reproducción en rápida velocidad, y el juego aumenta gradualmente la velocidad.
- Como en el modo de búsqueda es posible escuchar el sonido a bajo volumen (aproximadamente a un cuarto del nivel normal), monitoree el sonido y suelte el botón cuando haya localizado la posición deseada.

Reproducción continuada

Reproducción de todas las pistas
Operar en el orden mostrado



- 1 Coloque los CD deseados en el cambiador de CD. (Ver página 19.)
 - 2 Presione el botón **CD CONTROL** No. 1 para iniciar la reproducción.
 - 3 Presione el botón **CONTINUE** para activar el modo de reproducción continua.
 - 4 Ajuste.
- La reproducción de CD comienza por el disco 1 y continúa hasta la última pista del último CD colocado en el cambiador.

- When 10 CDs are loaded in the CD changer, continuous play can be started by pressing any CD CONTROL button (DISC 1 to DISC 10). Continuous play ends with the last track of the CD loaded in the CD changer.

DISC Selection

- Press the CD CONTROL button (DISC 1 to DISC 10) corresponding to the No. of the required CD.

Example: To designate Disc 2



The tracks on the designated CD are played in sequence.

- Note: "PROGRAM" is shown in the display and the direct select operation is performed, the CD cannot be played.

TRACK button

- Direct Track Selection
Press the CD CONTROL button (DISC 1 to DISC 10) after pressing the TRACK button.

Example: To designate the 5th track of Disc 2

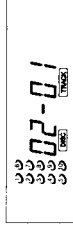


- Si se colocan 10 CD en el cambiador de CD, la reproducción continua puede ser iniciada presionando cualquier botón CD CONTROL (DISC 1 a DISC 10). La reproducción continua termina cuando el cambiador de CD reproduce la última pista del último CD colocado.

Botón DISC CONTROL

- Selección directa de disco
Presione el botón (DISC 1 a DISC 10) de CD CONTROL correspondiente al No. del CD deseado.

Ejemplo: Para designar el disco 2



La unidad reproduce en secuencia las pistas del CD designado.

- Nota: Cuando aparece "PROGRAM" en la indicación y se ejecuta la operación de selección directa, el CD no es reproducido.

Botón TRACK

- Selección directa de pista
Presione el botón CD CONTROL (DISC 1 a DISC 10) después de presionar el botón TRACK.

Ejemplo: Para seleccionar la 5ª pista del disco 2



- Si 10 discos son cargados en el cambiador de CD, la lectura continua puede ser iniciada apoyando cualquier botón de selección de disco (DISC 1 a DISC 10). La lectura continua se termina con la última pista del último disco cargado en el cambiador de CD.

Touche DISC CONTROL

- Sélection directe de disque
Appuyez sur la touche CD CONTROL (DISC 1 à DISC 10) correspondant au No. du disque voulu.

Exemple: Pour désigner le disque 2

Les pistes sur le disque désigné sont lues en séquence.

- Remarque: Quand "PROGRAM" est montré dans l'affichage pendant la sélection directe de disque, le disque ne peut pas être lu.

Touche TRACK

- Sélection directe de piste
Appuyez sur la touche CD CONTROL (DISC 1 à DISC 10) après une pression sur la touche TRACK.

Exemple: Pour désigner la 5ème piste du disque 2



- Une perte d'alignement peut se produire si l'appareil a reçu un choc violent ou s'il est utilisé dans un endroit soumis aux vibrations. (Par exemple, dans une voiture roulant sur une chaussée en mauvais état.)

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 localisée, 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 sur la touche **◀◀** pour passer au début de la piste qui est lue. Appuyez deux fois rapidement pour passer au début de la piste précédente.

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

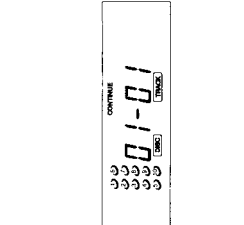
- La position voulue peut être localisée en utilisant la recherche accélérée avant ou arrière pendant la lecture.



- Maintenez pressée la touche; la lecture de la reproduction se fait à une vitesse qui augmente progressivement, et puis la vitesse augmente brusquement.
- Comme un léger son (environ le quart du niveau de lecture) peut être audible dans le mode de recherche, relâchez la touche quand la position voulue est atteinte en contrôlant le son.

Lecture continue

Lecture de toutes les pistes
Procéder dans l'ordre indiqué



- 1 Chargez les disques requis dans le changeur de CD. (Voir page 19.)
 - 2 Appuyez sur la touche **CD CONTROL** No. 1 pour lancer la lecture.
 - 3 Appuyez sur la touche **CONTINUE** pour passer en mode de lecture continue.
 - 4 Ajustez.
- La lecture de CD commence à partir du disque 1 et continue jusqu'à la dernière piste du dernier disque dans le changeur de CD.

- Si se colocan 10 CD en el cambiador de CD, la reproducción continua puede ser iniciada presionando cualquier botón CD CONTROL (DISC 1 a DISC 10). La lectura continua se termina cuando el cambiador de CD reproduce la última pista del último CD colocado.

Touche DISC CONTROL

- Sélection directe de disque
Appuyez sur la touche CD CONTROL (DISC 1 à DISC 10) correspondant au No. du disque voulu.

Exemple: Pour désigner le disque 2

Les pistes sur le disque désigné sont lues en séquence.

- Remarque: Quand "PROGRAM" est montré dans l'affichage pendant la sélection directe de disque, le disque ne peut pas être lu.

Touche TRACK

- Sélection directe de piste
Appuyez sur la touche CD CONTROL (DISC 1 à DISC 10) après une pression sur la touche TRACK.

Exemple: Pour désigner la 5ème piste du disque 2



- Si se colocan 10 CD en el cambiador de CD, la reproducción continua puede ser iniciada presionando cualquier botón CD CONTROL (DISC 1 a DISC 10). La reproducción continua termina cuando el cambiador de CD reproduce la última pista del último CD colocado.

Botón DISC CONTROL

- Selección directa de disco
Presione el botón (DISC 1 a DISC 10) de CD CONTROL correspondiente al No. del CD deseado.

Ejemplo: Para designar el disco 2

La unidad reproduce en secuencia las pistas del CD designado.

- Nota: Cuando aparece "PROGRAM" en la indicación y se ejecuta la operación de selección directa, el CD no es reproducido.

Botón TRACK

- Selección directa de pista
Presione el botón CD CONTROL (DISC 1 a DISC 10) después de presionar el botón TRACK.

Ejemplo: Para seleccionar la 5ª pista del disco 2



- When 10 CDs are loaded in the CD changer, continuous play can be started by pressing any CD CONTROL button (DISC 1 to DISC 10). Continuous play ends with the last track of the CD loaded in the CD changer.

DISC Selection

- Press the CD CONTROL button (DISC 1 to DISC 10) corresponding to the No. of the required CD.

Example: To designate Disc 2



The tracks on the designated CD are played in sequence.

- Note: "PROGRAM" is shown in the display and the direct select operation is performed, the CD cannot be played.

TRACK button

- Direct Track Selection
Press the CD CONTROL button (DISC 1 to DISC 10) after pressing the TRACK button.

Example: To designate the 5th track of Disc 2



- Une perte d'alignement peut se produire si l'appareil a reçu un choc violent ou s'il est utilisé dans un endroit soumis aux vibrations. (Par exemple, dans une voiture roulant sur une chaussée en mauvais état.)

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 localisée, 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 sur la touche **◀◀** pour passer au début de la piste qui est lue. Appuyez deux fois rapidement pour passer au début de la piste précédente.

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

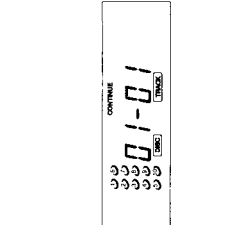
- La position voulue peut être localisée en utilisant la recherche accélérée avant ou arrière pendant la lecture.



- Maintenez pressée la touche; la lecture de la reproduction se fait à une vitesse qui augmente progressivement, et puis la vitesse augmente brusquement.
- Comme un léger son (environ le quart du niveau de lecture) peut être audible dans le mode de recherche, relâchez la touche quand la position voulue est atteinte en contrôlant le son.

Lecture continue

Lecture de toutes les pistes
Procéder dans l'ordre indiqué



- 1 Chargez les disques requis dans le changeur de CD. (Voir page 19.)
 - 2 Appuyez sur la touche **CD CONTROL** No. 1 pour lancer la lecture.
 - 3 Appuyez sur la touche **CONTINUE** pour passer en mode de lecture continue.
 - 4 Ajustez.
- La lecture de CD commence à partir du disque 1 et continue jusqu'à la dernière piste du dernier disque dans le changeur de CD.

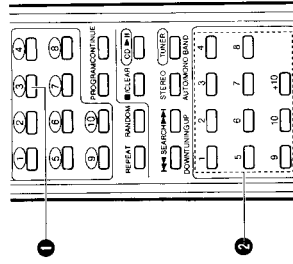
Direct access play (using the remote control unit)

Example 1: To designate Disc 1



- 1 Designate the required CD using CD CONTROL button (DISC 1 to DISC 10).
- 2 CD play starts.

Example 2: To designate the 3rd track of Disc 3



- 1 Designate the required CD using the CD CONTROL button (DISC 1 to DISC 10).
- 2 The track number is displayed and the required track number is selected using the track button.

- 3 CD play starts.
- 4 To designate track numbers 1 to 10, press the track number button corresponding to the track number.
- 5 To designate track number 11 or higher, press the +10 button (TRACK) and the required track number button.
- 6 Example: To designate the 20th track, press the +10 button once, then press track number button 10.

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

Repeat play (Using the remote control unit)

Press the REPEAT button before or during play. It is possible to repeat all tracks on all CDs in the CD changer.

Each time the REPEAT button is pressed, the mode will change in the order from a single track (⇐), to all tracks (⇐ ALL), to clear mode.



Single track
Una sola pista
Une seule piste

⇐ ALL
All tracks
Todas las pistas
Toutes les pistes

⇐
Repeat playback
Se repite
S'épète.
Repeat playback released.
Desactivación de la repetición de reproducción.
La lecture répétée est relâchée.

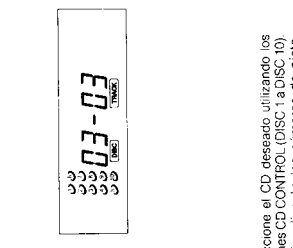
Reproduction por acceso directo (utilizando la unidad de control remoto)

Example 1: Para seleccionar el disco 1



- 1 Seleccione el CD deseado utilizando el botón CD CONTROL (DISC 1 a DISC 10).
- 2 Se inicia la reproducción de CD.

Example 2: Para seleccionar la 3ª pista del disco 3



- 1 Seleccione el CD deseado utilizando los botones CD CONTROL (DISC 1 a DISC 10).
- 2 Sa visualización los números de pista, seleccione el número de pista deseada utilizando el botón de pista.
- 3 Se inicia la reproducción del CD.

- 4 Para designar las pistas del número 1 al 10, presione el botón de número de pista correspondiente a la misma.
- 5 Para designar el número de pista 11 o superior, presione el botón +10 y el número de pista deseado.
- 6 Ejemplo: Para designar la pista 20, presione el botón +10 una vez, y luego presione el botón 10 de número de pista.

- +10 button: Cada vez que presiona este botón el número se incrementa en 10. Primero presione este botón para ingresar los decenas, luego presione el botón de número de pista para ingresar las unidades.

Repetición de reproducción (utilizando la unidad de control remoto)

Presione el botón REPEAT antes o durante la reproducción. Es posible efectuar la repetición de reproducción de una sola pista, todas las pistas de un CD o todas las pistas de todos los CDs en el cambiador.

Cada vez que presione el botón REPEAT el modo será cambiado en el siguiente orden: de una sola pista (⇐) a todas las pistas (⇐ ALL), al modo de borrado.

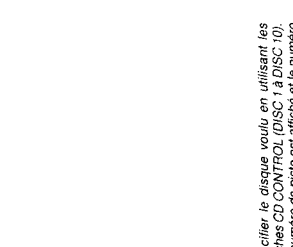
Lecture à accès direct (en utilisant la télécommande)

Exemple 1: Pour spécifier le disque 1



- 1 Spécifier le disque voulu en utilisant la touche CD CONTROL (DISC 1 à DISC 10).
- 2 La lecture CD commence.

Exemple 2: Pour spécifier la 3ème piste du disque 3



- 1 Spécifier le disque voulu en utilisant les touches CD CONTROL (DISC 1 à DISC 10).
- 2 Le numéro de piste est affiché et le numéro de piste voulu est sélectionné en utilisant la touche de piste.
- 3 La lecture CD commence.

- 4 Pour désigner les numéros de pistes 1 à 10, appuyer sur la touche de numéro de piste correspondant au même.
- 5 Pour désigner le numéro de piste 11 ou supérieur, appuyer sur la touche +10 le nombre de fois nécessaire pour les dizaines puis sur une touche de numéro de piste. (Exemple: Pour désigner le morceau 20, appuyer une fois sur la touche +10 puis appuyer sur la touche de numéro de piste 10.)

- +10 button: A chaque pression sur cette touche, le numéro augmente de 10. Presser d'abord cette touche pour entrer les dizaines, puis la touche de numéro de piste pour entrer les chiffres des unités.

Lecture répétée (En utilisant la télécommande)

Appuyez sur la touche REPEAT avant ou pendant la lecture. Une seule piste, toutes les pistes sur un disque, ou toutes les pistes sur tous les disques dans le changeur CD peuvent être répétées.

A chaque pression sur la touche REPEAT, le mode sera changé d'une seule piste (⇐) à toutes les pistes (⇐ ALL) à mode d'effacement, dans cet ordre.

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

• Repetición de todas las pistas de todos los CD (ALL DISC, CONTINUE, ⇐ ALL) Cuando se presiona el botón CONTINUE estando el modo "⇐ ALL", la lectura CD comienza a partir de la pista corriente o especificada, y luego de todas las pistas de todos los CD son reproducidas repetidamente.

• Repetición de todas las pistas de todos los CD (ALL DISC, CONTINUE, ⇐ ALL) Si la touche CONTINUE est pressée dans le mode "⇐ ALL", la lecture CD commence à partir de la piste courante ou spécifiée, puis toutes les pistes de tous les disques seront lues plusieurs fois.

Reproducción aleatoria (Utilizando la unidad de control remoto)

Presione el botón RANDOM antes o durante la reproducción. Es posible efectuar la reproducción aleatoria de uno o de todos los CDs.

- Un disco aleatorio (RANDOM) Presione el botón RANDOM para reproducir aleatoriamente las pistas del CD colocado o de uno especificado, excepto cuando el modo de reproducción continua está activado.

• Todos los discos aleatoriamente (ALL DISC, CONTINUE, RANDOM) En el modo de reproducción continua para seleccionar aleatoriamente y reproducir las pistas de todos los CD en el cambiador.

Nota: • Que cierta pista sea reproducida varias veces durante la reproducción aleatoria no es una falla.

- Lecture aléatoire sur un disque (RANDOM) Appuyez sur la touche RANDOM pour lire de façon aléatoire des pistes sur le disque courant ou spécifié, sauf en mode continu.
- Lecture aléatoire sur tous les disques (ALL DISC, CONTINUE, RANDOM) Appuyez sur la touche RANDOM en mode de lecture continue pour sélectionner et lire de façon aléatoire des pistes à partir de tous les disques dans le changeur CD.

Remarque: • Ce n'est pas un mauvais fonctionnement si une certaine piste est lue plusieurs fois pendant la lecture aléatoire.

Lecture aléatoire (En utilisant la télécommande)

Appuyez sur la touche RANDOM avant ou pendant la lecture. Il est possible d'effectuer la lecture aléatoire à partir d'un disque ou de tous les disques.

• Lecture aléatoire sur un disque (RANDOM) Appuyez sur la touche RANDOM pour lire de façon aléatoire des pistes sur le disque courant ou spécifié, sauf en mode continu.

• Lecture aléatoire sur tous les disques (ALL DISC, CONTINUE, RANDOM) Appuyez sur la touche RANDOM en mode de lecture continue pour sélectionner et lire de façon aléatoire des pistes à partir de tous les disques dans le changeur CD.

Remarque: • Ce n'est pas un mauvais fonctionnement si une certaine piste est lue plusieurs fois pendant la lecture aléatoire.

- Single track repeat (⇐) The current or specified track will be played repeatedly.
- All tracks of one CD repeat (⇐ ALL) All tracks on the current or specified CD will be played repeatedly.

• All tracks of all CDs repeat (ALL DISC, CONTINUE, ⇐ ALL) When the CONTINUE button is pressed in the "⇐ ALL" mode, CD playback starts from the current or specified track, then all tracks on all CDs will be played repeatedly.

• Repetición de una sola pista (⇐) La pista actual o la especificada será reproducida repetidamente.

Random play (Utilizing the remote control unit)

Press the RANDOM button before or during play. It is possible to perform random play from one or all CDs.

- One disc random (RANDOM) Press the RANDOM button to randomly play tracks on the current or specified CD, except in continuous mode.
- All disc random (ALL DISC, CONTINUE, RANDOM) Press the RANDOM button in continuous play mode to randomly select and play tracks from all of the CDs in the CD changer.

Notes: • It is not a malfunction that a certain track be played back several times during random play.

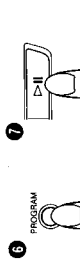
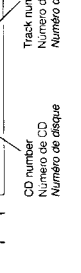
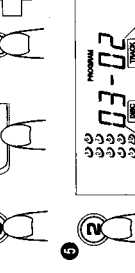
- Que cierta pista sea reproducida varias veces durante la reproducción aleatoria no es una falla.

Reproducción programada

Es posible programar un máximo de 20 pistas para reproducirlas en cualquier orden deseado de un CD o de todos los CD en el cambiador.

Exemplo: (CD conteniendo más de 12 pistas)

Exemplo 1: Programación de pistas del disco 3 (pistas 2, 5, y 12).



CD number
Número de CD
Numero de disque

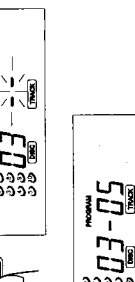
Track number
Número de pista
Numero de piste

Lecture programmée

Jusqu'à 20 pistes peuvent être programmées pour être lues dans l'ordre voulu à partir d'un disque ou de tous les disques dans le changeur CD.

Exemple: (Disque contenant plus de 12 pistes)

Exemple 1: Pour programmer des pistes du disque 3 (pistes 2, 5, et 12).



CD number
Número de CD
Numero de disque

Track number
Número de pista
Numero de piste

- 1 Press the No. 3 CD CONTROL button.
- 2 Press the \square button.
- 3 Press the PROGRAM button to set to the programming mode.
- 4 Press the TRACK button.
- 5 Press to designate the required track number (No. 1 to No. 10, and +10).
- 6 Repeat steps 4 and 5 to designate the other tracks.
- 7 Press the PROGRAM button to confirm program details.
- 8 Repeat from step 2 to readjust the program.
- 9 Repeat from step 5 to add to the program.
- 10 Press the \triangleright button when programming is completed. Programmed play starts.

When using the remote control unit

- After pressing the PROGRAM button by following the procedure above, you can program tracks by using the CD CONTROL and track number buttons.

- 1 Presione el botón CD CONTROL No. 3.
- 2 Presione el botón \square .
- 3 Para activar el modo de programación, presione el botón PROGRAM.
- 4 Presione el botón TRACK.
- 5 Presione el botón TRACK para seleccionar el número de pista deseado (No. 1 a No. 10, y +10).
- 6 Repita los pasos 4 y 5 para seleccionar otras pistas.
- 7 Presione el botón PROGRAM para confirmar los detalles del programa.
- 8 Repita desde el paso 2 para reajustar el programa.
- 9 Repita desde el paso 5 para agregar al programa.
- 10 Cuando termine la programación, presione el botón \triangleright . Se iniciará la reproducción programada.

Utilizando la unidad de control remoto

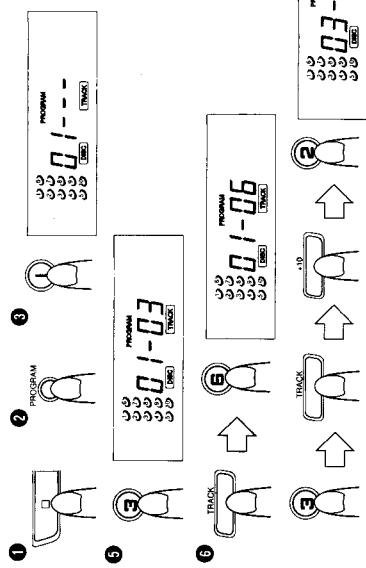
- Después de presionar el botón PROGRAM por medio del procedimiento de arriba, usted también puede programar las pistas de CD CONTROL y los de número de pista.

- 1 Appuyer sur la touche CD CONTROL No. 3.
- 2 Appuyer sur la touche \square .
- 3 Appuyer sur la touche PROGRAM pour passer en mode de programmation.
- 4 Appuyer sur la touche TRACK.
- 5 Appuyer sur la touche TRACK pour désigner le numéro de piste désiré (No. 1 à No. 10, et +10).
- 6 Répéter les étapes 4 et 5 pour désigner d'autres pistes.
- 7 Appuyer sur la touche PROGRAM pour vérifier les détails du programme.
- 8 Répéter à partir de l'étape 2 pour modifier le programme.
- 9 Répéter à partir de l'étape 5 pour ajouter des éléments au programme.
- 10 Appuyer sur la touche \triangleright quand la programmation est terminée. La lecture programmée commence.

En utilisant la télécommande

- Après une pression sur la touche PROGRAM en suivant la procédure ci-dessus, vous pouvez régler la lecture programmée en utilisant les touches CD CONTROL et de numéro de piste.

- Example 2: Programming tracks from 2 or more CDs in the order of disc 1 (track 3), disc 1 (track 6), and disc 3 (track 12).



- 1 Press the \square button.
- 2 Press the PROGRAM button to set to the programming mode.
- 3 Press the TRACK button to select the CD CONTROL buttons (No. 1 to No. 10).
- 4 Press the TRACK button.
- 5 Press to designate the required track number (No. 1 to No. 10, and +10).
- 6 Repeat steps 4 and 5 to designate the other tracks.
- 7 Press the PROGRAM button to confirm program details.
- 8 Repeat from step 2 to readjust the program.
- 9 Repeat from step 5 to add to the program.
- 10 Press the \triangleright button when programming is completed. Programmed play starts.

- 1 Presione el botón \square .
- 2 Para activar el modo de programación, presione el botón PROGRAM.
- 3 Presione el botón TRACK para seleccionar el botón CD CONTROL (No. 1 a No. 10).
- 4 Presione el botón TRACK.
- 5 Presione para seleccionar el número de pista deseado (No. 1 a No. 10, y +10).
- 6 Repita los pasos 4 y 5 para seleccionar otras pistas.
- 7 Presione el botón PROGRAM para confirmar los detalles del programa.
- 8 Repita desde el paso 2 para reajustar el programa.
- 9 Repita desde el paso 5 para agregar al programa.
- 10 Cuando termine la programación, presione el botón \triangleright . Se iniciará la reproducción programada.

- 1 Appuyer sur la touche \square .
- 2 Appuyer sur la touche PROGRAM pour passer en mode de programmation.
- 3 Presionner le disque voulu en utilisant les touches CD CONTROL (No. 1 à No. 10).
- 4 Appuyer pour désigner le numéro de piste requis (No. 1 à No. 10, et +10).
- 5 Répéter les étapes 4 et 5 pour désigner d'autres pistes.
- 6 Appuyer sur la touche PROGRAM pour vérifier les détails du programme.
- 7 Répéter à partir de l'étape 2 pour modifier le programme.
- 8 Répéter à partir de l'étape 5 pour ajouter des éléments au programme.
- 9 Appuyer sur la touche \triangleright quand la programmation est terminée. La lecture programmée commence.

To confirm the details of a program...
Press the PROGRAM button in stop mode: the tracks making up the program will be displayed in programmed order.

To clear the programmed tracks...
Press the TRACK button in stop mode: the programmed tracks will be cleared. When the CD tray is opened, programmed tracks, are cleared automatically.

Para confirmar los detalles de un programa...
Presione el botón PROGRAM en el modo de parada: las pistas que componen el programa aparecerán indicadas en el orden programado.

Para borrar las pistas programadas...
Presione el botón TRACK en el modo de parada: las pistas programadas serán borradas automáticamente.

Pour vérifier les détails d'un programme...
Appuyer sur la touche PROGRAM en mode d'arrêt: les pistes composant le programme seront affichés dans l'ordre programmé.

Pour annuler les pistes programmées...
Appuyer sur la touche TRACK en mode d'arrêt: les pistes composant le programme seront effacées automatiquement.

HANDLING CASSETTE TAPES

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

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

MANIPULACION DE CASSETTES DE CINTA

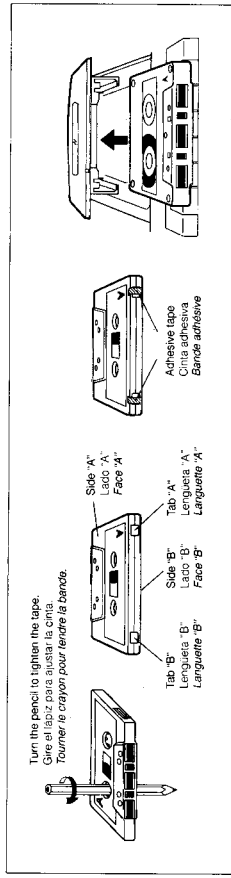
- Cassettes de cinta**
1. La cinta toda puede causar problemas. Utilice un lápiz o un objeto similar y tense suavemente el cinta como se muestra.
 2. Para evitar borrados accidentales, retire las lengüetas con un destornillador, etc. Para borrar la cinta después de haber extraído las lengüetas, selle las ranuras con cinta adhesiva.
 3. No se recomienda el uso de cassettes C-120 porque tienen tendencia a fallar.

- Colocación de cassettes**
1. Presione el botón STOP/EJECT para abrir el portacassete.
 2. Extraiga el cassette como se muestra.
 3. Cierre el portacassete presionándolo suavemente. Cuando oiga un "click" ello indica que el portacassete está correctamente cerrado.

MANIPULATION DES CASSETTES

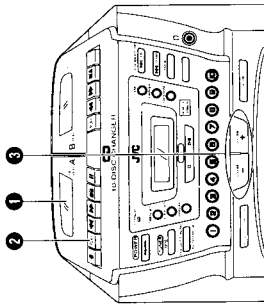
- Cassettes**
1. Une bande qui a du jeu peut être source de mauvais fonctionnements. Utiliser un crayon ou un objet semblable pour la retendre.
 2. Pour éviter l'effacement accidentel d'un enregistrement, ôter les languettes avec un tournevis. Reboucher les orifices avec du ruban adhésif si vous désirez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

- Mise en place d'une cassette**
1. Appuyer sur la touche STOP/EJECT pour ouvrir le porte-cassette.
 2. Mettre en place une cassette comme montré.
 3. Fermer le porte-cassette en le pressant légèrement. S'assurer d'obtenir le son du clic indiquant que le porte-cassette est fermé correctement.



CASSETTE PLAYBACK

Operate in the order shown



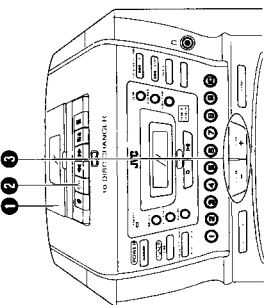
- 1 Load a cassette tape with side A facing up.
- 2 Press the **▶** button on Deck A. (The power is switched on and the TAPE mode is engaged to start tape playback.)
- 3 When battery power is used, switch on the **POWER** button first, then perform operations.
- 4 Adjust.

Notes:

- When the power is turned off while the tape is still running, cassette operation buttons which are depressed do not return to their original positions.
- Press the **▶** **STOP/EJECT** button to stop the tape running before turning off the power.
- Avoid operating the **FF** or **REW** button on the deck during playback of the other deck. (PC-XC70 only)

REPRODUCCION DE CASSETTES

Operate in the order shown



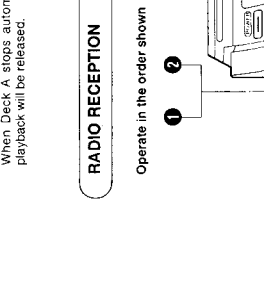
- 1 Coloque un cassette con la cara A apuntando hacia arriba.
- 2 Presione el botón **▶** para iniciar la reproducción. (Se conecta la alimentación y se activa el modo TAPE para iniciar la reproducción de la cinta).
- 3 Cuando se utiliza la alimentación de la pila, primero conecte **ON** el botón **POWER** y efectúe las operaciones después.
- 4 Ajuste.

Notes:

- Si se desconecta la alimentación mientras la cinta está girando, los botones de operación del cassette presionados no vuelven a su posición original.
- Presione el botón **▶** **STOP/EJECT** para detener la cinta antes de desconectar la alimentación.
- Evite operar el botón **FF** o **REW** de una platina mientras la otra está reproduciendo. (PC-XC70 exclusivamente)

LECTURE DE CASSETTE

Procéder dans l'ordre indiqué



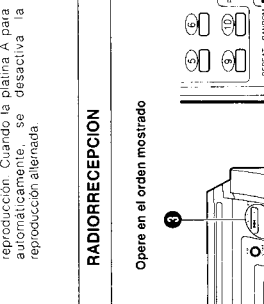
- 1 Charger une cassette avec la face A en haut.
- 2 Appuyer pour lancer la lecture. (L'alimentation est mise sur marche et le mode TAPE est engagé pour lancer la lecture de la bande.)
- 3 Lorsque l'alimentation sur piles est utilisée, mettre d'abord sur marche la touche **POWER**, puis effectuer les opérations.
- 4 Régler.

Remarques:

- Si l'alimentation est coupée alors que la bande de cassette qui se tourne fonctionne, les boutons qui sont actionnés ne retourneront pas à leur position d'origine.
- Appuyer sur la touche **▶** **STOP/EJECT** pour arrêter le défilement de la bande avant de couper l'alimentation.
- Éviter d'utiliser la touche **FF** ou **REW** sur la platine pendant la lecture sur l'autre. (PC-XC70 uniquement)

REPRODUCTION DE CASSETTES

Operate in the order shown



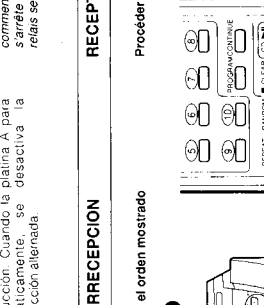
- 1 Press the **TUNER/BAND** button.
- 2 This is switched toward a band and radio frequency will be shown in the display.
- 3 When battery power is used, switch on the **POWER** button first, then perform operations.
- 4 Select the band.
- 5 Tune to the required station.
- 6 Adjust.

Botón STEREO AUTO/MONO

- Se conecta la alimentación y aparecen el visor una banda y una frecuencia de radio.
- Cuando se utiliza la alimentación de la pila, primero conecte **ON** el botón **POWER**, y efectúe las operaciones después.
- Seleccione la banda.
- Sintonice la estación deseada.
- Ajuste.

LECTURE AVEC RELAIS

Procéder dans l'ordre indiqué



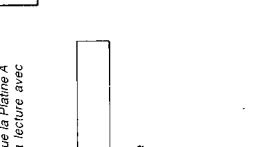
- 1 Mettre la touche **POWER** sur ON.
- 2 Charger une cassette.
- 3 Colocque une autre cassette.
- 4 Appuyer sur la touche **▶** **PLAY** sur la platine B.
- 5 Appuyer sur la touche **||** **PAUSE**.
- 6 Appuyer sur la touche **▶** **PLAY** sur la platine A.

REPRODUCTION POR RELEVO

- 1 Coloque el botón **POWER** en ON.
- 2 Coloque una cassette.
- 3 Coloque otra cassette.
- 4 Presione el botón **▶** **PLAY** en la platina B.
- 5 Presione el botón **||** **PAUSE**.
- 6 Presione el botón **▶** **PLAY** en la platina A.

REPRODUCTION POR RELEVO

Operate in the order shown



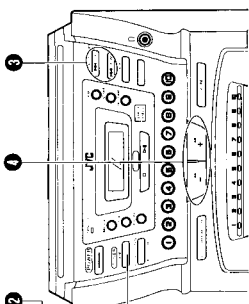
- 1 Coloque el botón **POWER** en ON.
- 2 Coloque una cassette.
- 3 Coloque otra cassette.
- 4 Presione el botón **▶** **PLAY** en la platina B.
- 5 Presione el botón **||** **PAUSE**.
- 6 Presione el botón **▶** **PLAY** en la platina A.

REPRODUCTION POR RELEVO

- 1 Coloque el botón **POWER** en ON.
- 2 Coloque una cassette.
- 3 Coloque otra cassette.
- 4 Presione el botón **▶** **PLAY** en la platina B.
- 5 Presione el botón **||** **PAUSE**.
- 6 Presione el botón **▶** **PLAY** en la platina A.

RADIO RECEPTION

Operate in the order shown

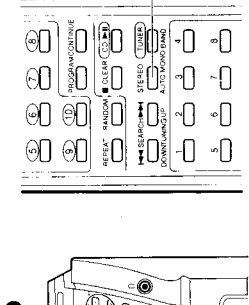


Botón STEREO AUTO/MONO

- Se conecta la alimentación y aparecen el visor una banda y una frecuencia de radio.
- Cuando se utiliza la alimentación de la pila, primero conecte **ON** el botón **POWER**, y efectúe las operaciones después.
- Seleccione la banda.
- Sintonice la estación deseada.
- Ajuste.

RADIORECEPCION

Operate in the order shown

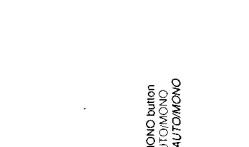


Botón STEREO AUTO/MONO

- Se conecta la alimentación y aparecen el visor una banda y una frecuencia de radio.
- Cuando se utiliza la alimentación de la pila, primero conecte **ON** el botón **POWER**, y efectúe las operaciones después.
- Seleccione la banda.
- Sintonice la estación deseada.
- Ajuste.

RECEPTION RADIO

Operate in the order shown

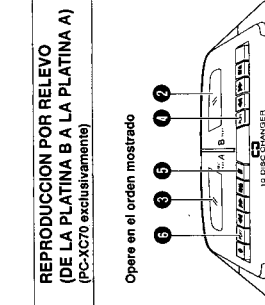


Botón STEREO AUTO/MONO

- Se conecta la alimentación y aparecen el visor una banda y una frecuencia de radio.
- Cuando se utiliza la alimentación de la pila, primero conecte **ON** el botón **POWER**, y efectúe las operaciones después.
- Seleccione la banda.
- Sintonice la estación deseada.
- Ajuste.

REPRODUCTION POR RELEVO

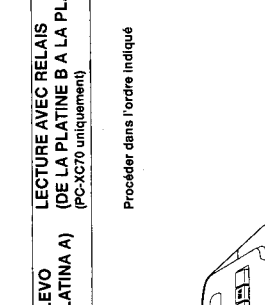
Operate in the order shown



- 1 Set the **POWER** button to ON.
- 2 Load a cassette.
- 3 Load another cassette.
- 4 Press the **▶** **PLAY** button on Deck B.
- 5 Press the **||** **PAUSE** button.
- 6 Press the **▶** **PLAY** button on Deck A.

REPRODUCTION POR RELEVO

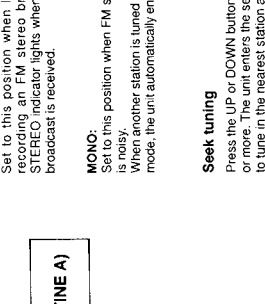
Operate in the order shown



- 1 Coloque el botón **POWER** en ON.
- 2 Coloque una cassette.
- 3 Coloque otra cassette.
- 4 Presione el botón **▶** **PLAY** en la platina B.
- 5 Presione el botón **||** **PAUSE**.
- 6 Presione el botón **▶** **PLAY** en la platina A.

LECTURE AVEC RELAIS

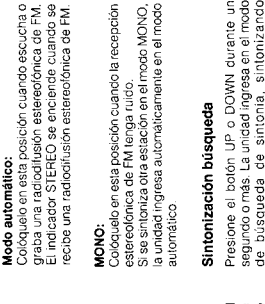
Procéder dans l'ordre indiqué



- 1 Mettre la touche **POWER** sur ON.
- 2 Charger une cassette.
- 3 Colocque une autre cassette.
- 4 Appuyer sur la touche **▶** **PLAY** sur la platine B.
- 5 Appuyer sur la touche **||** **PAUSE**.
- 6 Appuyer sur la touche **▶** **PLAY** sur la platine A.

REPRODUCTION POR RELEVO

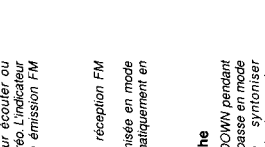
Operate in the order shown



- 1 Coloque el botón **POWER** en ON.
- 2 Coloque una cassette.
- 3 Coloque otra cassette.
- 4 Presione el botón **▶** **PLAY** en la platina B.
- 5 Presione el botón **||** **PAUSE**.
- 6 Presione el botón **▶** **PLAY** en la platina A.

REPRODUCTION POR RELEVO

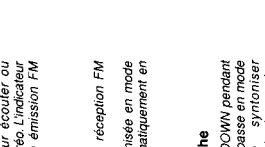
Operate in the order shown



- 1 Coloque el botón **POWER** en ON.
- 2 Coloque una cassette.
- 3 Coloque otra cassette.
- 4 Presione el botón **▶** **PLAY** en la platina B.
- 5 Presione el botón **||** **PAUSE**.
- 6 Presione el botón **▶** **PLAY** en la platina A.

LECTURE AVEC RELAIS

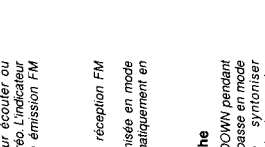
Procéder dans l'ordre indiqué



- 1 Mettre la touche **POWER** sur ON.
- 2 Charger une cassette.
- 3 Colocque une autre cassette.
- 4 Appuyer sur la touche **▶** **PLAY** sur la platine B.
- 5 Appuyer sur la touche **||** **PAUSE**.
- 6 Appuyer sur la touche **▶** **PLAY** sur la platine A.

REPRODUCTION POR RELEVO

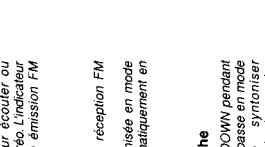
Operate in the order shown



- 1 Coloque el botón **POWER** en ON.
- 2 Coloque una cassette.
- 3 Coloque otra cassette.
- 4 Presione el botón **▶** **PLAY** en la platina B.
- 5 Presione el botón **||** **PAUSE**.
- 6 Presione el botón **▶** **PLAY** en la platina A.

REPRODUCTION POR RELEVO

Operate in the order shown



- 1 Coloque el botón **POWER** en ON.
- 2 Coloque una cassette.
- 3 Coloque otra cassette.
- 4 Presione el botón **▶** **PLAY** en la platina B.
- 5 Presione el botón **||** **PAUSE**.
- 6 Presione el botón **▶** **PLAY** en la platina A.

Notes:

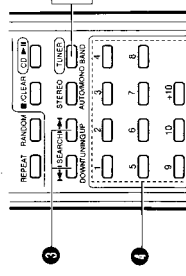
- When seek tuning to the required station is not possible because the broadcast signal is weak, the remote control signal should be momentarily to perform manual tuning.
- When the mode is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again, and the TUNER/BAND button is pressed, the same station will be tuned to.

Auto preset tuning

This function scans the current band, detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically. AUTO-PRESET will scan the maximum of 2 seconds. The frequencies of stations broadcasting signals can be stored in memory automatically in the order of increasing frequency. (15 stations in each band.)

Presetting stations (using the remote control unit)

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



- 1 Press the TUNER/BAND button.
 - 2 Select the FM band using the TUNER/BAND button.
 - 3 Turn on the required station.
 - 4 Press preset button "10", then "5", for more than 2 sec. (When "15" blinks in the preset station display, the station has been stored.)
- Repeat the above procedure for each of the other stations, using a different preset button each time.
 - Repeat the above procedure for the other band.

To change preset stations

- 1 Perform step 1 above after tuning to the required station.
- Notes:**
- The previous stored station is erased when a new station is stored, because the new station's frequency replaces the previous frequency in memory.
 - When listening to an AM broadcast, noise may be heard if the remote control unit is used.

Notes:

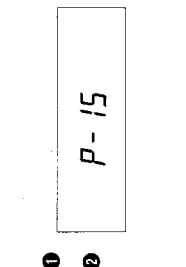
- Cuando la búsqueda de sintonía de la estación deseada no es posible porque la señal es débil, se debe utilizar el control remoto momentáneamente para efectuar la sintonización manual.
- Cuando se coloca la alimentación en STANDBY, u otro modo (TAPE o CD), la última frecuencia sintonizada queda almacenada en memoria. Cuando correcta la alimentación otra vez y presiona el botón TUNER/BAND, la unidad sintoniza la misma estación.

Sintonización programada automática

Esta función busca la banda actual, detectando frecuencias usadas para señales de radiodifusión y almacena automáticamente en memoria las primeras 15 frecuencias automáticamente. AUTO-PRESET escaneará un máximo de 2 segundos. Las frecuencias de las emisoras emitiendo señales de radiodifusión pueden ser almacenadas en memoria automáticamente en orden de frecuencia creciente (15 estaciones en cada banda).

Presetting stations (utilizando la unidad de control remoto)

15 estaciones en cada banda pueden ser preajustadas de la siguiente forma:
 • Ejemplo: (Presintonización de la radiodifusión de una estación de FM en 103.5 MHz en el botón "15" de presintonización)



- 1 Presione el botón TUNER/BAND.
 - 2 Seleccione la banda de FM utilizando el botón TUNER/BAND.
 - 3 Encienda la estación deseada.
 - 4 Presione el botón "10" de presintonización y luego el "5" durante más de 2 segundos. (Cuando el "15" parpadea en la indicación de estación presintonizada, ésta ha sido registrada.)
- Repita el procedimiento de arriba para cada una de las otras estaciones, utilizando un botón de presintonización diferente para cada estación.
 - Repita el procedimiento de arriba para la otra banda.

Cambio de estaciones presintonizadas

- 1 Efectúe el paso 1 de arriba después de sintonizar la estación deseada.
- Notes:**
- Cuando se almacena una nueva estación, se borra la estación almacenada anteriormente porque la frecuencia de la nueva estación reemplaza la frecuencia de la anterior en memoria.
 - Cuando escuche una radiodifusión de AM, es posible que escuche interferencia si utiliza el mando a distancia.

Remarques:

- Lorsque la sintonisation par recherche de la station voulue n'est pas possible à cause d'un signal de faible émission, il faut presser la touche de commande à distance momentanément pour effectuer la sintonisation manuelle.
- Quand l'alimentation est réglée sur STANDBY ou un autre mode (TAPE ou CD) est sélectionné, la dernière fréquence sintonisée est mémorisée. Quand l'alimentation est de nouveau tournée et que la touche TUNER/BAND est pressée, la même station sera entretenue.

Syntionisation automatique des préajustages

Cette fonction balais la gamme courante, détectant les fréquences utilisées par les signaux émis, et mémorise automatiquement les 15 premières fréquences en mémoire. AUTO-PRESET effectuera un maximum de 2 secondes. Les fréquences des stations diffusant des signaux peuvent être préajustées automatiquement dans l'ordre des fréquences croissantes. (15 stations dans chaque gamme.)

Préajustage des stations (en utilisant la télécommande)

15 stations dans chaque gamme peuvent être préajustées comme suit:
 • Exemple: (Pour préajuster une émission d'une station FM sur 103.5 MHz sur la touche de préajustage "15")



- 1 Appuyez sur la touche TUNER/BAND.
 - 2 Sélectionnez la gamme FM avec la touche TUNER/BAND.
 - 3 Allumez la station voulue.
 - 4 Pressez la touche de préajustage "10", puis "5" pendant plus de 2 secondes. (Quand "15" clignote dans l'affichage de station préajustée, la station a été préajustée.)
- Répétez la procédure ci-dessus pour chacune des autres stations, en utilisant une touche de préajustage différente à chaque fois.
 - Répétez la procédure ci-dessus pour l'autre gamme.

Pour changer les stations préajustées

- 1 Effectuez l'étape 1 ci-dessus après avoir sintonisé la station voulue.
- Remarques:**
- La station mise en mémoire précédemment est effacée quand une nouvelle station est introduite, car la fréquence de la nouvelle station remplace la fréquence précédente en mémoire.
 - En écoutant une émission AM, des parasites peuvent être entendus si la télécommande est utilisée.

Preset tuning

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

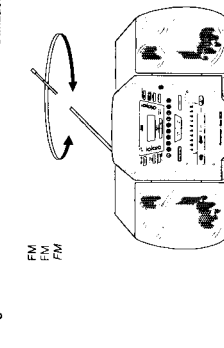
(Using the main unit)

- 1 Press the TUNER/BAND button.
- 2 Select the band using the TUNER/BAND button.
- 3 Press the PRESET TUNING button to select the required preset station.

(Using the remote control unit)

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

Using the antennas



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

Note:
 El núcleo de ferrita de la antena de ferrita puede captar interferencia de receptores de televisión en la vecindad y disturbar la recepción de AM.

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

Presintonización

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

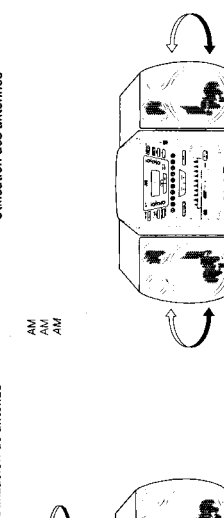
(Utilizando la unidad principal)

- 1 Presione el botón TUNER/BAND.
- 2 Seleccione la banda utilizando el botón TUNER/BAND.
- 3 Presione el botón PRESET TUNING para seleccionar la estación presintonizada deseada.

(Utilizando la unidad de control remoto)

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

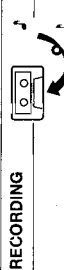
Utilización de antenas



Note:
 El núcleo de ferrita de la antena de ferrita puede captar interferencia de receptores de televisión en la vecindad y disturbar la recepción de AM.

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

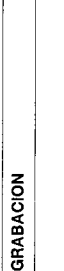
RECORDING



- During recording, the ALC (Automatic Level Control) circuit automatically optimizes the recording level, so manual recording level adjustment is unnecessary.
- Check that the safety tab on the cassette tape and cassette deck are properly inserted.
- When making an important recording, use household AC as much as possible for power supply.

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

GRABACION



- Durante la grabación, el circuito ALC (control automático de nivel), optimiza automáticamente el nivel de grabación, haciendo innecesario el ajuste manual del nivel de grabación.
- Verifique que la lengüeta de seguridad del cassette de cinta no está rota.
- Cuando efectúe una grabación importante, utilice tanto como sea posible la CA del hogar para alimentación.

Nota:
 Esta unidad tiene características de grabación/reproducción adecuadas para cintas normales. Las cintas normales tienen diferentes características que las cintas de CrO₂ y de metal.

ENREGISTREMENT



- En enregistrement, le circuit ALC (commande de niveau automatique) optimise automatiquement le niveau d'enregistrement, rendant inutile l'ajustement manuel du niveau d'enregistrement.
- Vérifier que la languette de sécurité de la cassette n'est pas brisée.
- Pour faire un enregistrement important, utiliser le secteur CA dans la mesure du possible pour l'alimentation.

Remarque:
 Cet appareil a des caractéristiques d'enregistrement/lecture adaptées pour les bandes normales. Les bandes normales ont des caractéristiques différentes des bandes CrO₂ et métal.

Grabación sincronizada con el reproductor de CD

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

Enregistrement synchronisé avec le lecteur CD

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

Quando des secciones non enregistrées entre les morceaux, ne sont pas nécessaires...
 Faire ce qui suit après avoir fini l'opération précédente (1 à 5):
 1. Appuyer deux fois sur la touche II de la lecture CD. Le lecteur CD passe en mode de pause.
 2. Appuyer sur les touches REC et PLAY. Le lecteur CD commence alors simultanément la lecture.

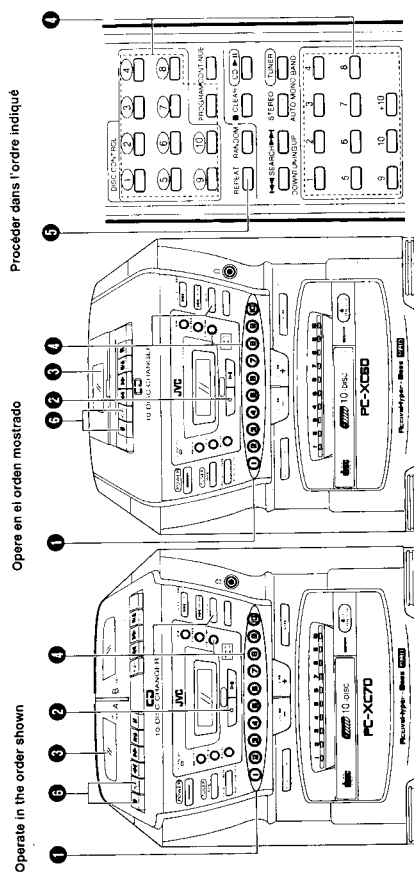
Remarques:
 • En fonction du disque utilisé, des sections non enregistrées de différentes longueurs peuvent être laissées entre les morceaux.
 • Si l'enregistrement synchro CD est effectué en utilisant plus de deux disques, il y aura un petit espace vierge alors que les disques changent.

Quando no es necesario dejar espacios entre los segmentos...
 Hacer lo siguiente después de terminar la operación anterior (1 a 5):
 1. Presione dos veces el botón II del reproductor de CD. El reproductor ingresa en el modo de pausa.
 2. Presione los botones REC y PLAY. Ahora el reproductor de CD inicia la reproducción simultáneamente.

Notes:
 • Dependiendo del CD utilizado es posible dejar entre músicas secciones sin grabar de diferentes longitudes.
 • Cuando se efectúa la grabación sincronizada de CD utilizando más de dos discos, quedará un pequeño espacio sin grabar mientras los CD cambian.

When non-recorded section between segments...
 Perform the following after finishing the previous operation (1 to 5):
 1. Press the II button of the CD player twice. The CD player enters the pause mode.
 2. Press the REC and PLAY buttons. Now, the CD player starts play simultaneously.

Notes:
 • Depending on the CD used, non-recorded sections of different lengths may be left between tunes.
 • When CD synchro recording is performed using more than two CDs, there will be a little blank space while the CDs change.



Opere en el orden mostrado (PC-XC70)

Opere en el orden mostrado (PC-XC60)

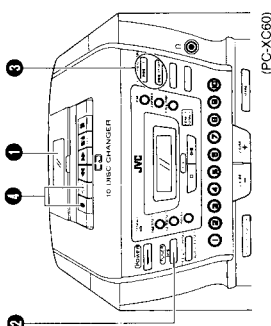
1. Press the CD CONTROL button corresponding to the CD to be recorded.
2. Press the II button to set to the stop mode.
3. Load a cassette with side A facing up. (Wind past the tape leader before starting recording.)
4. When programmed play is required, program the required tracks. (See page 24).
 • Select tracks with a total playing time which does not exceed the tape length. (Refer to page 24).
5. When recording a CD in repeat play mode, set as required.
6. Press the REC button and the PLAY button; synchronized recording will start. (The recording indicator lights up.)
 • Non-recorded sections of approx. 4 seconds are automatically left between tunes.
 • When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the STOP/EJECT button to stop the tape.
 • Before CD synchro recording of CD continuous play, press the CONTINUE button. (See page 21).

Notes:
 • During CD synchro recording, the II and III buttons do not function.
 • During CD synchro recording, do not perform operations on Deck B, because II the tape in Deck B is played back, that sound would be recorded. (PC-XC70 only)

1. Appuyer sur la touche CD CONTROL correspondant au disque à enregistrer.
2. Appuyer sur la touche II pour passer en mode d'arrêt.
3. Charger une cassette avec sa face A tournée vers le haut. (Passer le leader de la bande avant de commencer l'enregistrement.)
4. Lorsque la lecture programmée est requise, programmer les pistes requises. (Voir page 24).
 • Sélectionner les pistes avec une durée de lecture totale qui n'exécède pas la longueur de la bande (se référer aux remarques accompagnant la cassette).
 • Choisir des pistes dont la somme des durées de lecture ne dépasse pas la longueur de la bande.
5. Régler comme requis pour enregistrer un disque audionumérique en mode de lecture répétée. Appuyer sur la touche REC et sur la touche PLAY. L'enregistrement synchronisé commencera. (L'indicateur d'enregistrement s'allume.)
 • Des sections non enregistrées d'environ 4 secondes seront automatiquement laissées entre les morceaux.
 • Si la bande arrive à la fin en premier, le lecteur CD s'arrête automatiquement; si le lecteur CD s'arrête le premier, la bande continue à défiler. Dans ce cas, appuyer sur la touche STOP/EJECT pour arrêter la bande.
 • Avant l'enregistrement synchro CD de lecture continue, appuyer sur la touche CONTINUE. (Voir page 21).

Remarques:
 • Pendant l'enregistrement synchro CD, les touches II et III ne fonctionnent pas.
 • Pendant l'enregistrement synchro CD, ne pas effectuer d'opérations sur la platine B, car si la bande dans la platine B est lue, ce son pourra être enregistré. (PC-XC70 uniquement)

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



1. Charger une cassette.
2. Appuyer sur la touche TUNER/BAND.
3. Synchroniser la station désirée.
4. Appuyer sur la touche REC avec la touche PLAY.

• Pour arrêter momentanément l'enregistrement, appuyer sur la touche II PAUSE. Pour reprendre l'enregistrement, appuyer à nouveau sur la touche II PAUSE.

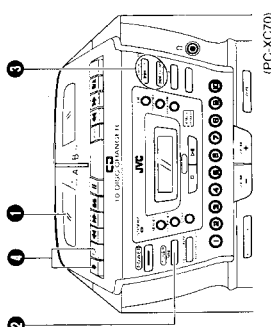
• Pendant l'enregistrement, ne pas effectuer d'opérations sur la Platine B, car si la bande dans la Platine B est lue, ce son pourra également être enregistré. (PC-XC70 uniquement)

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

Pour effacer une bande sans faire de nouvel enregistrement...
 Appuyer sur la touche II PAUSE. Appuyer sur la touche II PAUSE et appuyer sur les touches REC et PLAY ensemble après une pression sur la touche STOP/EJECT.

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

Grabación desde la radio
 Opere en el orden mostrado



1. Coloque un cassette.
2. Presione el botón TUNER/BAND.
3. Sintonice la estación deseada.
4. Presione el botón REC conjuntamente con el botón PLAY.

• Para parar la grabación temporalmente, presione el botón II PAUSE. Para continuar la grabación, presione otra vez el botón II PAUSE.

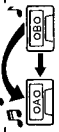
• Durante la grabación no realice las operaciones en la platina B ya que si la cinta en la misma está siendo reproducida, el sonido también será grabado. (PC-XC70 exclusivamente)

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

Para borrar la cinta sin efectuar una nueva grabación...
 Presione el botón II PAUSE de la platina para activar el modo PAUSE. Presione conjuntamente las botones REC y PLAY. Después de presionar el botón STOP/EJECT.

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TAPE DUBBING
(SYNCHRO START DUBBING)
(PC-XC70 only)



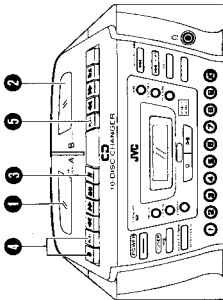
Normal-speed dubbing from Deck B to Deck A can be performed.

Operate in the order shown

COPIA DE CINTA
(COPIA CON INICIO SINCRONIZADO)
(PC-XC70 exclusivamente)

Es posible copiar de la platina B a la platina A a velocidad normal.

Operar en el orden mostrado



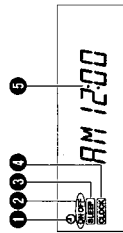
- 1 Load a cassette for recording. (Refer to the note on page 30)
- 2 Load a recorded cassette.
- 3 Press the **II** PAUSE button to get to the TAPE mode. (The button should not be locked)
- 4 Press the **II** PAUSE button.
- 5 Press the **○** REC and **▶** PLAY buttons together. (Record-pause mode)
- 6 Press the **▶** PLAY button. (Synchronized dubbing will start.)

Note:

- With Deck A in the record-pause mode, the **II** PAUSE button is released when Deck B enters the stop mode.

CLOCK ADJUSTMENT

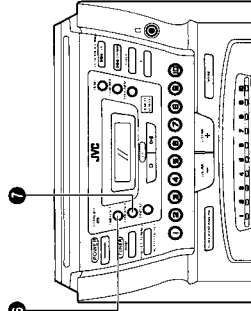
Names of parts in the clock/timer section, and their functions:



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

AJUSTE DEL RELOJ

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



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

COPIE DE BANDE
(COPIE A DEMARRAGE SYNCHRO)
(PC-XC70 uniquement)

La copie à vitesse normale de la Platine B sur la Platine A peut être effectuée.

Procéder dans l'ordre indiqué



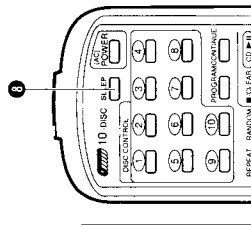
- 1 Charger une cassette pour l'enregistrement. (Se référer à la remarque de la page 30.)
- 2 Charger une cassette enregistrée.
- 3 Appuyer sur le bouton **▶** PLAY pour passer en mode TAPE. (Le bouton ne doit pas être verrouillé.)
- 4 Appuyer sur la touche **II** PAUSE.
- 5 Appuyer en même temps sur les touches **○** REC et **▶** PLAY. (Mode de pause d'enregistrement.)
- 6 Appuyer sur la touche **▶** PLAY. (La copie synchronisée commencera.)

Remarque:

- Avec la Platine A en mode de pause d'enregistrement, la touche **II** PAUSE est relâchée quand la Platine B entre en mode arrêt.

REGLAGE DE L'HORLOGE

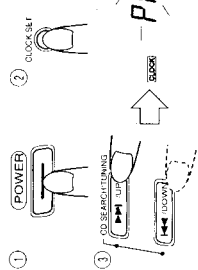
Noms des pièces dans la section horloge/minuterie, et leurs fonctions:



- 1 Indicateur de mode de minuterie
- 2 Indicateur de minuterie (marche/arrêt ON/OFF) du minuterie
- 3 Indicateur d'horloge (CLOCK)
- 4 Affichage de l'heure
- 5 Touche TIMER/SET
- 6 Touche CLOCK/SET
- 7 Bouton de minuterie de sommeil (SLEEP)

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

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



- 1 Set the POWER button to ON.
- 2 Press the CLOCK/SET button for 2 seconds. (The time will blink in the display.)
- 3 Set the PM 1:15 by pressing the search buttons. (When the button is kept pressed, the minute/hour indication changes continuously.)
- 4 Press the CLOCK/SET button; the time will light in the display.

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

- Press the CLOCK/SET button when you hear the time signal from a TV or radio.

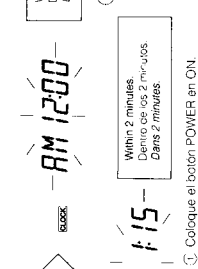
- To confirm the current time (when the power is ON), CLOCK/SET button. When the button is pressed again, the display shows the previously engaged mode.

Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- When the power cord is plugged in after being disconnected or power is restored after a power failure, "CLOCK" will blink in the display. Set the current time again.

Ajuste de l'heure actuelle (quand se usa l'appareil pour primera vez)

(Ejemplo: Para ajustar el reloj a las 1:15 PM.)



- 1 Coloque el botón POWER en ON.
- 2 Presione el botón CLOCK/SET durante 2 seg. o más. (AM 12:00 parpadeará en el visor.)
- 3 Ajuste a las 1:15 PM presionando los botones de búsqueda. (Si mantiene el botón presionado, la indicación de los minutos/hora cambia continuamente.)
- 4 Presione el botón CLOCK/SET; la hora se iluminará en el visor.

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

- Para fijar los segundos en forma exacta, presione el botón CLOCK/SET al presionalo la señal horaria de la televisión o la radio.

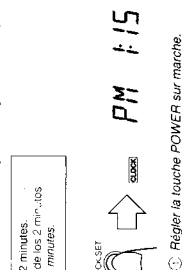
- La confirmación de la hora actual (cuando la alimentación está conectada) presione el botón CLOCK/SET. Al presionalo otra vez, la indicación muestra el modo que estaba activado antes.

Notes:

- Antes de efectuar la grabación o reproducción por temporizador, es necesario ajustar la hora actual.
- Cuando se reconecta el cable de alimentación después de haberlo desconectado o cuando vuelve la energía después de un corte de la misma, "CLOCK" parpadeará en el visor. Ajuste otra vez la hora actual.

Régla de l'heure actuelle (quand cet appareil est utilisée pour la première fois)

(Ejemplo: Pour régler l'horloge à PM 1:15.)



- 1 Régler la touche POWER sur marche.
- 2 Appuyer sur la touche CLOCK/SET pendant 2 secondes ou plus. "AM 12:00" clignotera dans l'affichage.
- 3 Régler à 1:15 en pressant les touches de recherche. (Si la touche est maintenue pressée, l'indication des minutes/heures évolue en continu.)
- 4 Appuyer sur la touche CLOCK/SET; l'heure sera allumée dans l'affichage.

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

- Pour régler à la seconde près, appuyer sur la touche CLOCK/SET au moment d'un signal horaire de la télévision ou de la radio.

- Pour confirmer l'heure courante (quand l'alimentation est reconnectée) appuyer sur la touche CLOCK/SET. Quand la touche est à nouveau pressée, l'affichage montre le mode engagé précédemment.

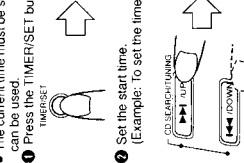
Remarques:

- Avant d'effectuer l'enregistrement ou la lecture par minuterie, il est nécessaire de régler l'heure actuelle.
- Lorsque le cordon d'alimentation est rebranché après avoir été débranché, ou si l'énergie revient après une panne, "CLOCK" clignotera dans l'affichage. Régler à nouveau l'heure courante.

TIMER OPERATIONS

Setting the timer

(Example: To set the timer to PM 12:15.)

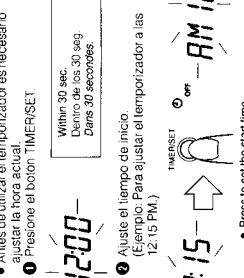


- 1 Press the TIMER/SET button.
- 2 Adjust the time of start. (Example: To set the timer to PM 12:15.)
- 3 Press the timer ON/OFF button.

OPERACIONES POR TEMPORIZADOR

Ajuste del temporizador

(Ejemplo: Para ajustar el temporizador a las 12:15 PM.)

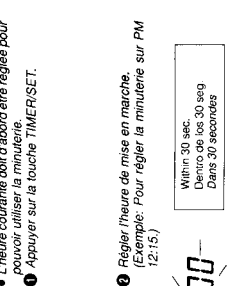


- 1 Presione el botón TIMER/SET.
- 2 Ajuste el tiempo de inicio. (Ejemplo: Para ajustar el temporizador a las 12:15 PM.)
- 3 Presione el botón de encendido/apagado del temporizador.

FUNCTIONNEMENT DE LA MINUTERIE

Régla de la minuterie

(Ejemplo: Pour régler la minuterie sur PM 12:15.)



- 1 Appuyer sur la touche TIMER/SET.
- 2 Régler l'heure de mise en marche. (Ejemplo: Pour régler la minuterie sur PM 12:15.)
- 3 Régler l'heure de mise à l'arrêt.

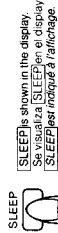
- Timer playback will start at the timer start time and the power will be switched off at the stop time (timer or CD).
- The power will not be switched off at the stop time when the tape ends. The timer will switch off when the tape ends. The timer setting remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.
- **To cancel timer operation**
Press the TIMER/SET button so that the timer mode indicator (T) goes out.

Notes:

- When the volume setting is set to "VOL." (volume level is not specified), the timer playback volume is set to the level used before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.
- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

Sleep timer operations (using the remote control unit)

- **A. Use this when you want to fall asleep while listening to a tape, broadcast or CD.**
- ① Set to the required source and tune (broadcast or 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.
- Los ajustes de la hora del despertador son: 30, 60, 90 o 120 minutos. Cuando usted suelta el botón SLEEP, la fuente es indicada después de transcurridos 5 segundos.
- Don't régler de durée de sommeil de 30, 60, 90 ou 120 minutes peuvent être réglés. Quand vous relâchez la touche SLEEP, la source est affichée pendant 5 secondes.

- Después de transcurrido el tiempo especificado se activa el temporizador de desconexión y la alimentación es desconectada (modos de sintonizador y CD). La alimentación no se desconecta después de la hora especificada durante la operación de la cinta, pero se desconectará cuando la cinta termine.

- **Checking the sleep time**
When the SLEEP button is pressed, the power will be switched off after the specified time (Timer & CD modes). The power will not switch off after the specified time during tape operation but will switch off when the tape ends.
- **To cancel the sleep timer operation**
Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

- La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconecta a la hora de desconexión del temporizador (sintonizador y CD).
- Después de transcurrido el tiempo especificado no será desconectada a la hora especificada durante la operación de la cinta pero se desconectará al fin de la cinta. El ajuste del temporizador permanece igual en el mismo modo de temporizador aun después de desconectar la alimentación y la misma función de temporización se repetirá a la misma hora el día siguiente.

- **Cancelación de la operación por temporizador**
Presione el botón POWER para apagar el indicador (T) de modo de temporizador.

Notes:

- Cuando se ajusta el volumen en "VOL." (el nivel de volumen no está especificado), el volumen de reproducción por temporizador permanece en el nivel usado antes del ajuste del temporizador.
- Para parar durante la reproducción por temporizador, presione el botón POWER para apagar el indicador (T) de modo de temporizador.
- Cuando se intermite la alimentación es posible hacer que el sonido aumente gradualmente desde el volumen 0 (cero) al volumen actual.

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

- **A. Utilice este modo cuando desee dormirse escuchando una cinta, radiodifusión o CD.**
- ① Coloque en la fuente o música (radiodifusión) deseada, o en reproducción (CD o cinta).
- ② Presione el botón SLEEP para ajustar la hora de desconexión.



- Después de transcurrido el tiempo especificado se activa el temporizador de desconexión y la alimentación es desconectada (modos de sintonizador y CD). La alimentación no se desconecta después de la hora especificada durante la operación de la cinta, pero se desconectará cuando la cinta termine.

- **Control de la duración de la operación**
Cuando la fuente SLEEP está presionada, la duración de la operación se indica en el display. Si la presión de la fuente es indicada después de transcurridos 5 segundos, la fuente es indicada después de transcurridos 5 segundos.

- **Verificación del tiempo para dormir**
Cuando presiona el botón SLEEP, aparece la indicación del tiempo restante. Si la presión de la fuente es establecida, un nuevo periodo para dormir.
- **Cancelación del temporizador de desconexión**
Presione el botón POWER para desconectar la alimentación o presione el botón SLEEP hasta que el indicador de tiempo para dormir desaparezca.

- **B. Para dormir mientras escucha una radiodifusión o un CD y efectuar la reproducción por temporizador la mañana siguiente**
- ① Ajuste el temporizador. (Referencia a "Ajuste del temporizador" en la página 34).
- ② Ajuste la fuente deseada (radiodifusión o CD).

| | |
|---------------------|----------------|
| When falling asleep | When waking up |
| Broadcast | Broadcast |
| CD play | CD play |

- During tape playback, the power is switched off when the tape ends, so only "When falling asleep" or "When waking up" operation is possible.
- ③ Press the SLEEP button to set the sleep time.

MAINTENANCE



- **Cleaning the important!**
When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch rollers. When they become too dirty...
 - The output sound level drops.
 - Sound quality deteriorates.
 - 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, 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.

- **B. Para dormir mientras escucha una radiodifusión o un CD y efectuar la reproducción por temporizador la mañana siguiente**
- ① Ajuste el temporizador. (Referencia a "Ajuste del temporizador" en la página 34).
- ② Ajuste la fuente deseada (radiodifusión o CD).

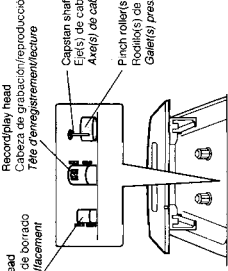
| | |
|----------------------|--------------------|
| Cuando vaya a dormir | Cuando despierta |
| Radiodifusión | Radiodifusión |
| Reproducción de CD | Reproducción de CD |

- Al reproducir una cinta, la alimentación se desconecta cuando la cinta termina, por eso la operación es posible solo "Cuando vaya a dormir" o "Cuando despierta".
- ③ Presione el botón SLEEP para ajustar la hora de desconexión del temporizador.

MANTENIMIENTO

- **La limpieza es importante!**
Cuando la cinta está girando, el polvo magnético y el polvo se acumulan naturalmente en las cabezas, cabrestante y rodillo de presión. Cuando están muy sucios...
 - El nivel de salida de sonido se reduce.
 - Las cintas grabadas no se borran completamente.
 - La grabación se realiza satisfactoriamente.
 - Por lo tanto, usad este limpiador de cabezas, etc. después de cada 10 horas de uso para obtener condiciones de grabación óptimas.

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



- **Precautions:**
 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 head eraser (available from an audio store). (When demagnetizing the head, the POWER button should be set to STANDBY.)
 2. Para limpieza no utilice ningún otro producto que no sea alcohol. El alcohol y la benzina dañarán el rodillo de presión de goma.

- **B. Pour vous endormir en écoutant une émission ou un CD et pour effectuer la lecture par minuterie le lendemain matin**
- ① Régler la minuterie. (Se référer à "Réglage de la minuterie" sur la page 34).
- ② Régler sur la source voulue (émission ou CD).

| | |
|-----------------|-------------------|
| Pour s'endormir | Pour se réveiller |
| Radio | Radio |
| Lecture CD | Lecture CD |

- Pendant la lecture de bande, l'alimentation est coupée quand la bande arrive à la fin, ainsi que pour la lecture par minuterie. Pour s'endormir ou pour se réveiller est possible.
- ③ Appuyer sur la touche SLEEP pour régler la durée de sommeil.

ENTRETIEN

- **Le nettoyage est important!**
Quand la bande défile, de la poudre magnétique et de la poussière s'accumulent naturellement sur les têtes, le cabestan et le galet presseur. Quand ils sont trop sales...
 - le niveau du son de sortie baisse.
 - la bande enregistrée précédemment n'est pas complètement effacée.
 - l'enregistrement se fait satisfactoriement.
 - C'est pourquoi il est nécessaire de nettoyer les têtes, etc. toutes les 10 heures d'usage pour des conditions d'enregistrement optimales.

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

- **Précautions:**
 1. Garder des aimants et objets métalliques éloignés de la tête. Si la tête devient magnétisée, du bruit augmentera et la tonalité se détériorera. Démagnétiser la tête toutes les 20 à 30 heures d'utilisation avec un effaceur de tête (en vente dans un magasin d'accessoires audio). (Lors de la démagnétisation de la tête, la touche POWER doit être réglée sur STANDBY.)
 2. Ne pas utiliser autre chose que de l'alcool pour le nettoyage. Les alcools ou la benzine endommageront le galet presseur de caoutchouc.

1 Location of Main Parts

■ Front cabinet inside

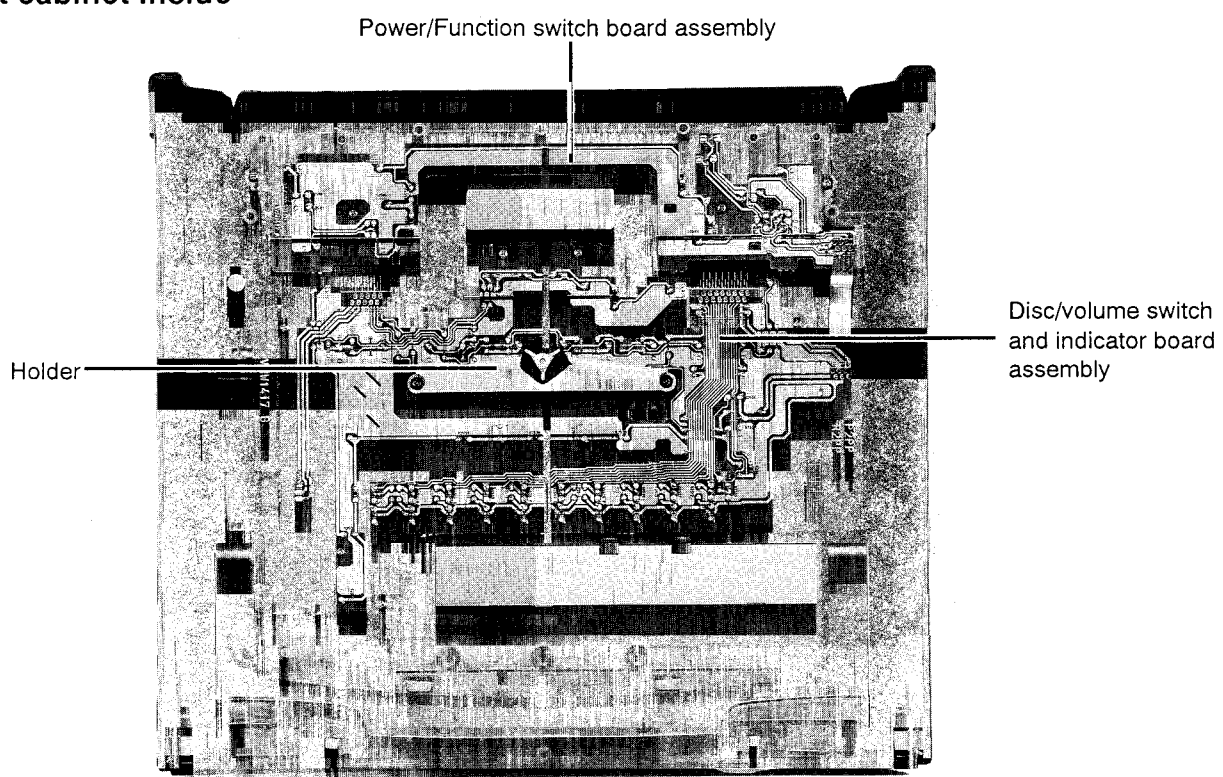
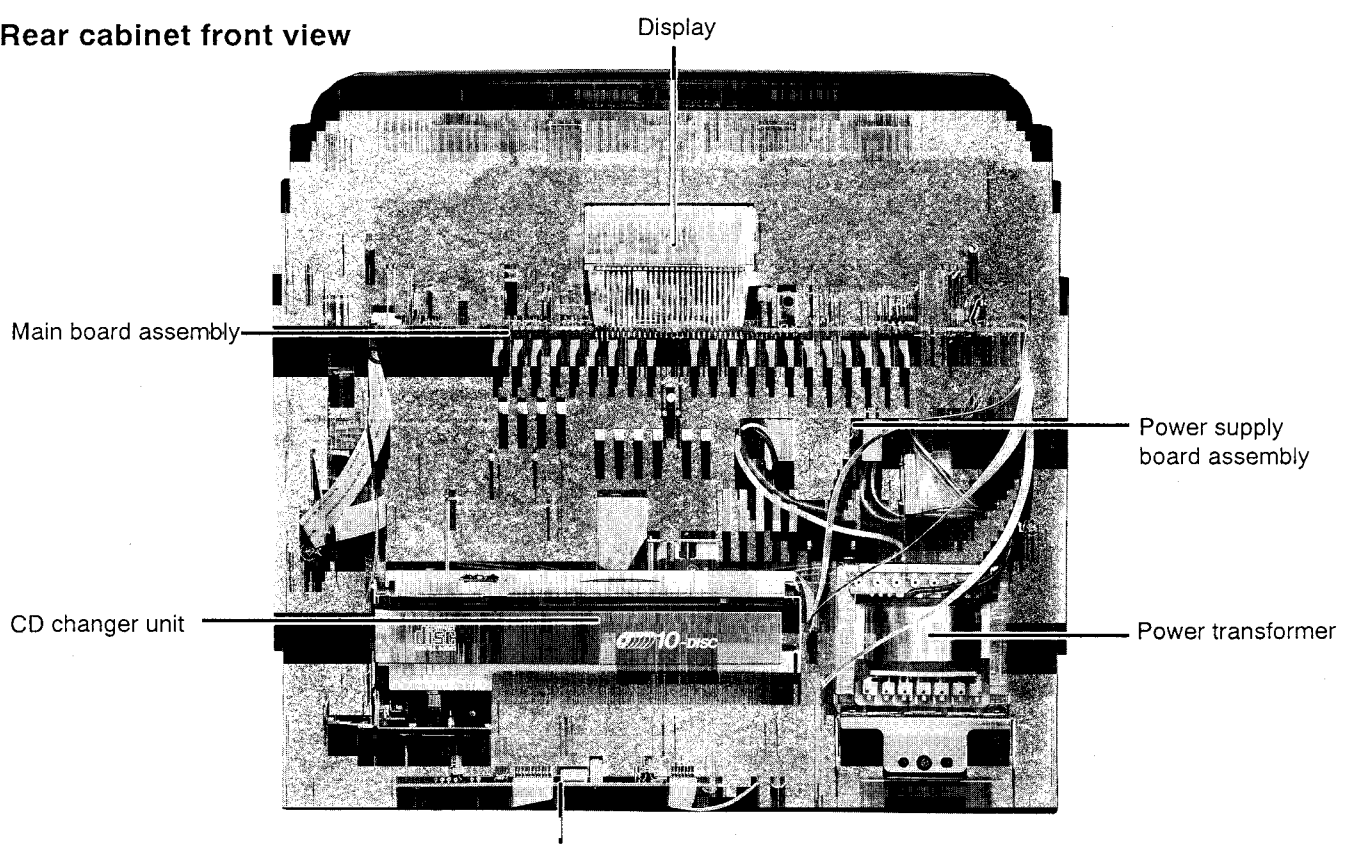


Fig. 1 - 1

Rear cabinet front view



CD amp. board assembly Fig. 1 - 2

■ CD unit (Top side)

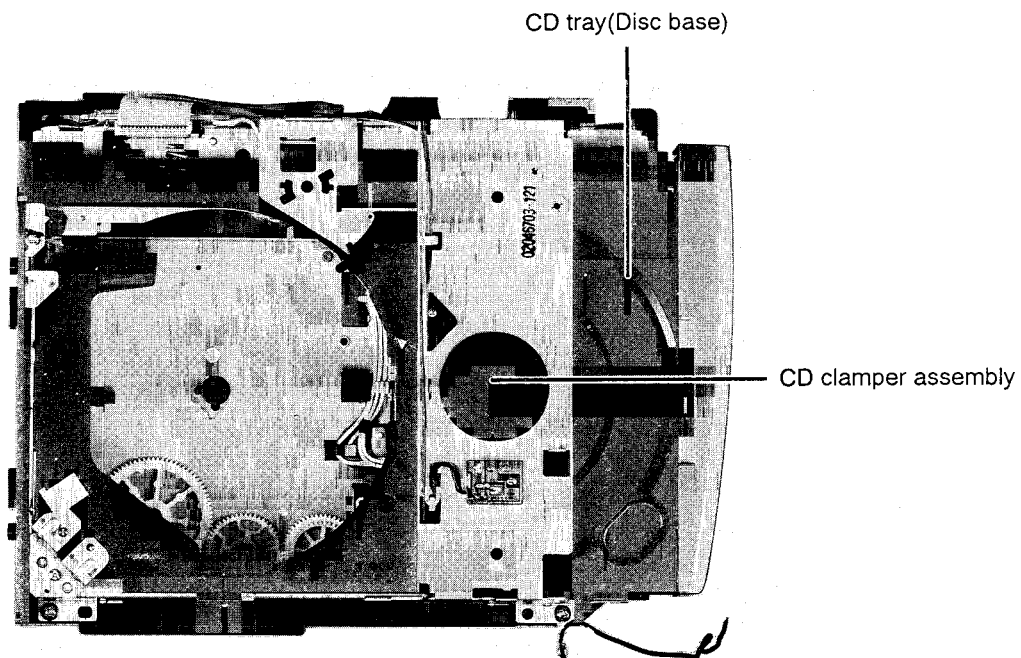


Fig. 1 - 3

■ CD unit (Bottom side)

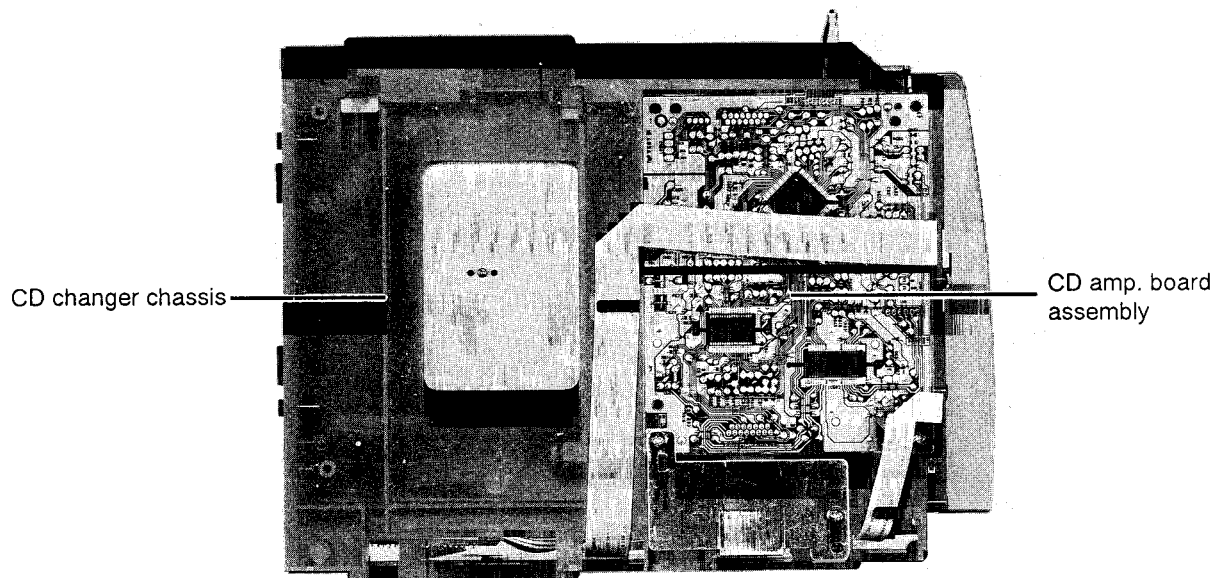


Fig. 1 - 4

■ Top cabinet (Top side)

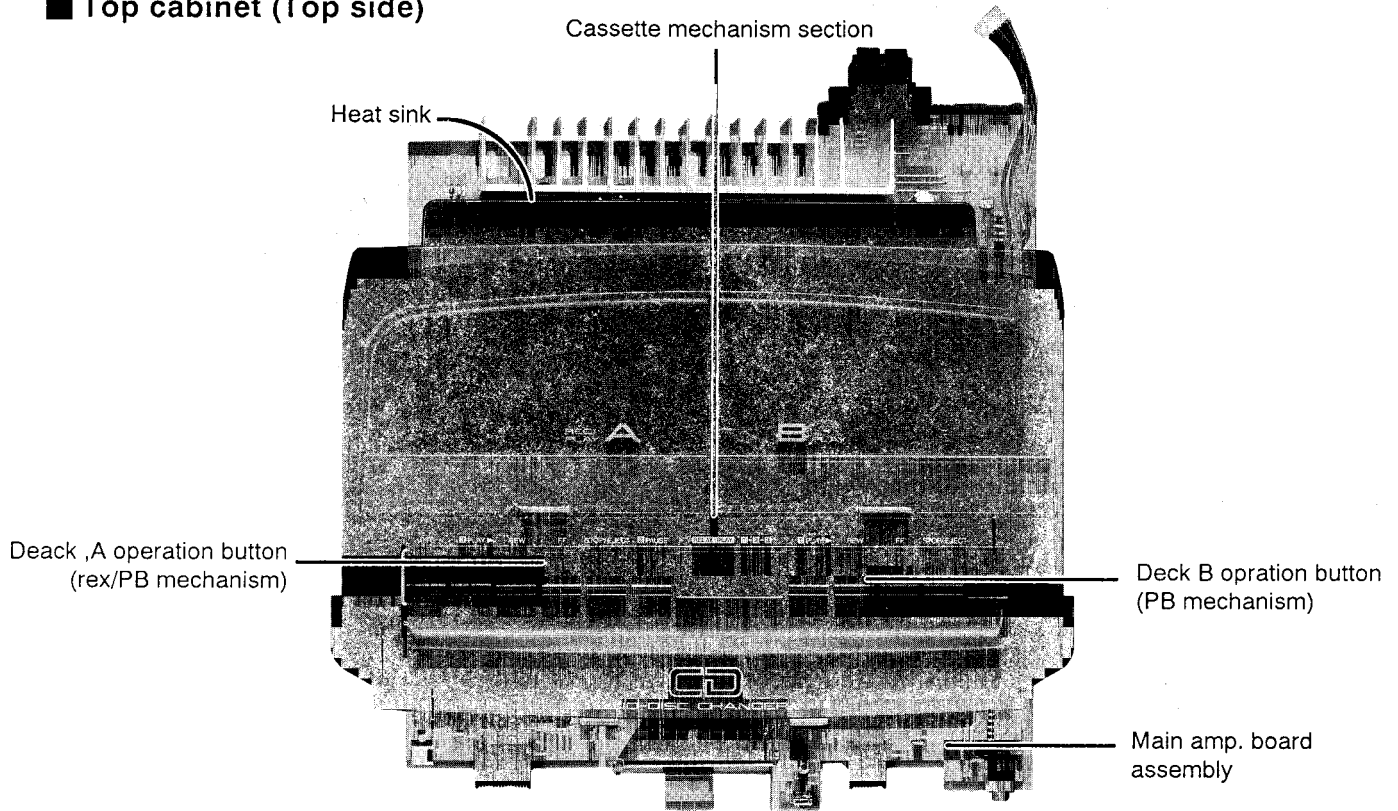


Fig. 1 - 5

■ Top cabinet unit (Bottom side)

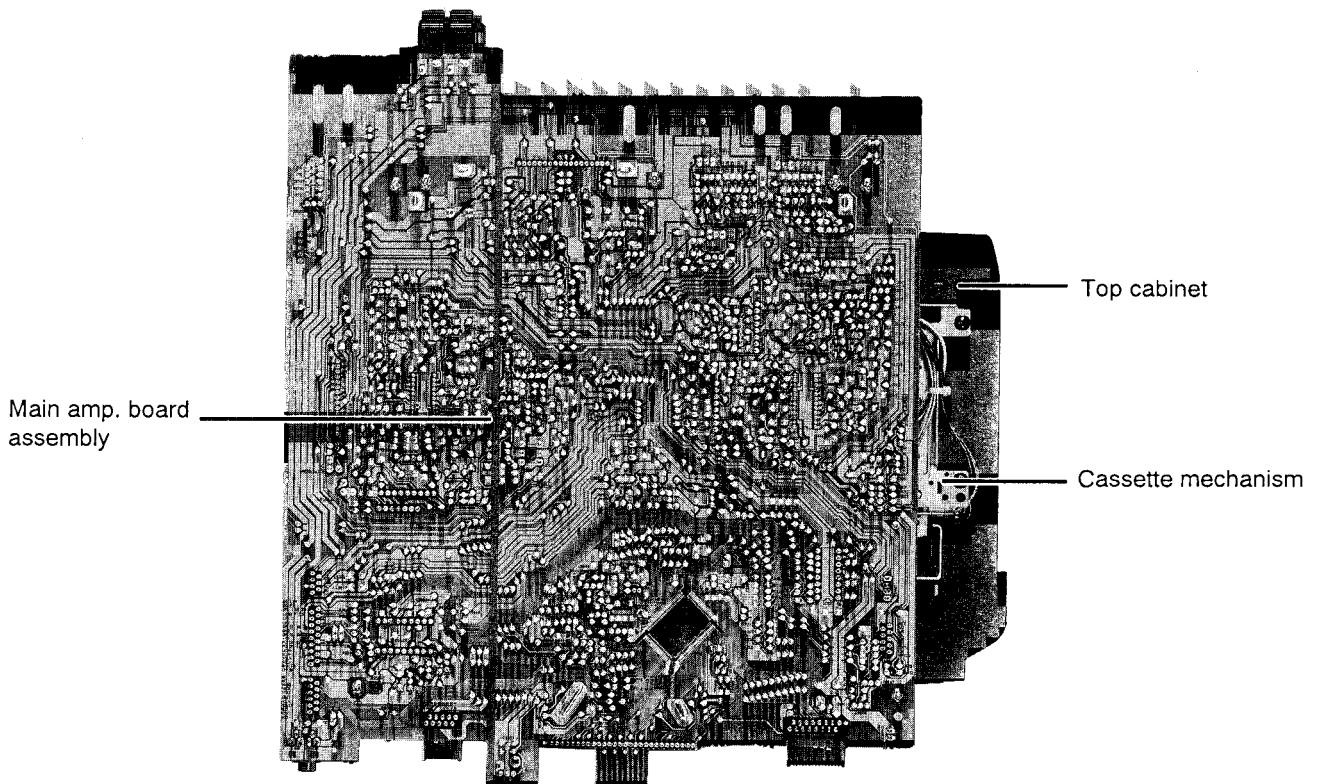


Fig. 1 - 6

■ Top cabinet (Bottom side)

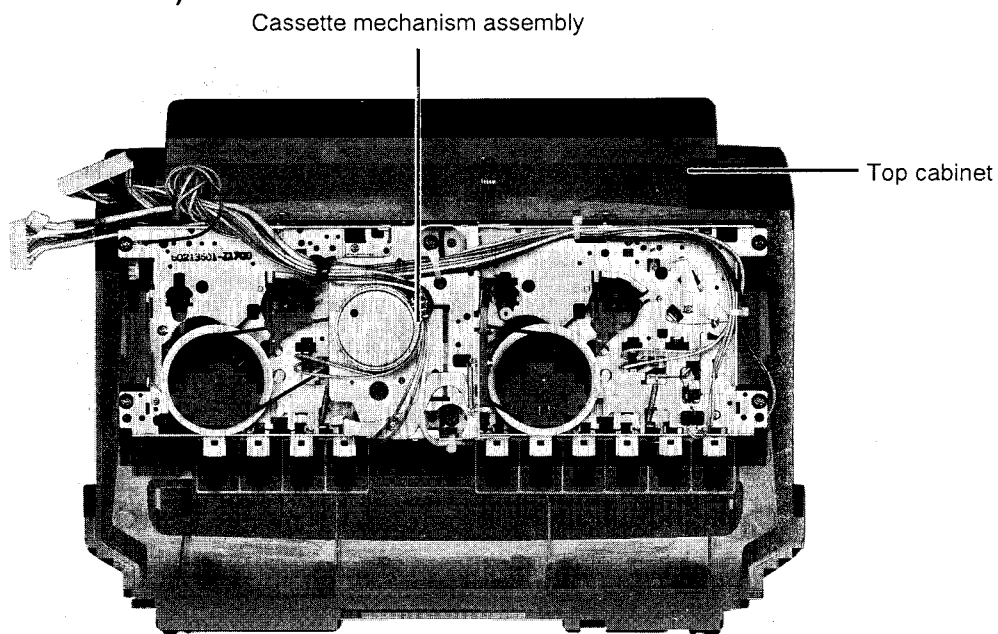


Fig. 1 - 7

■ Main board (Top side)

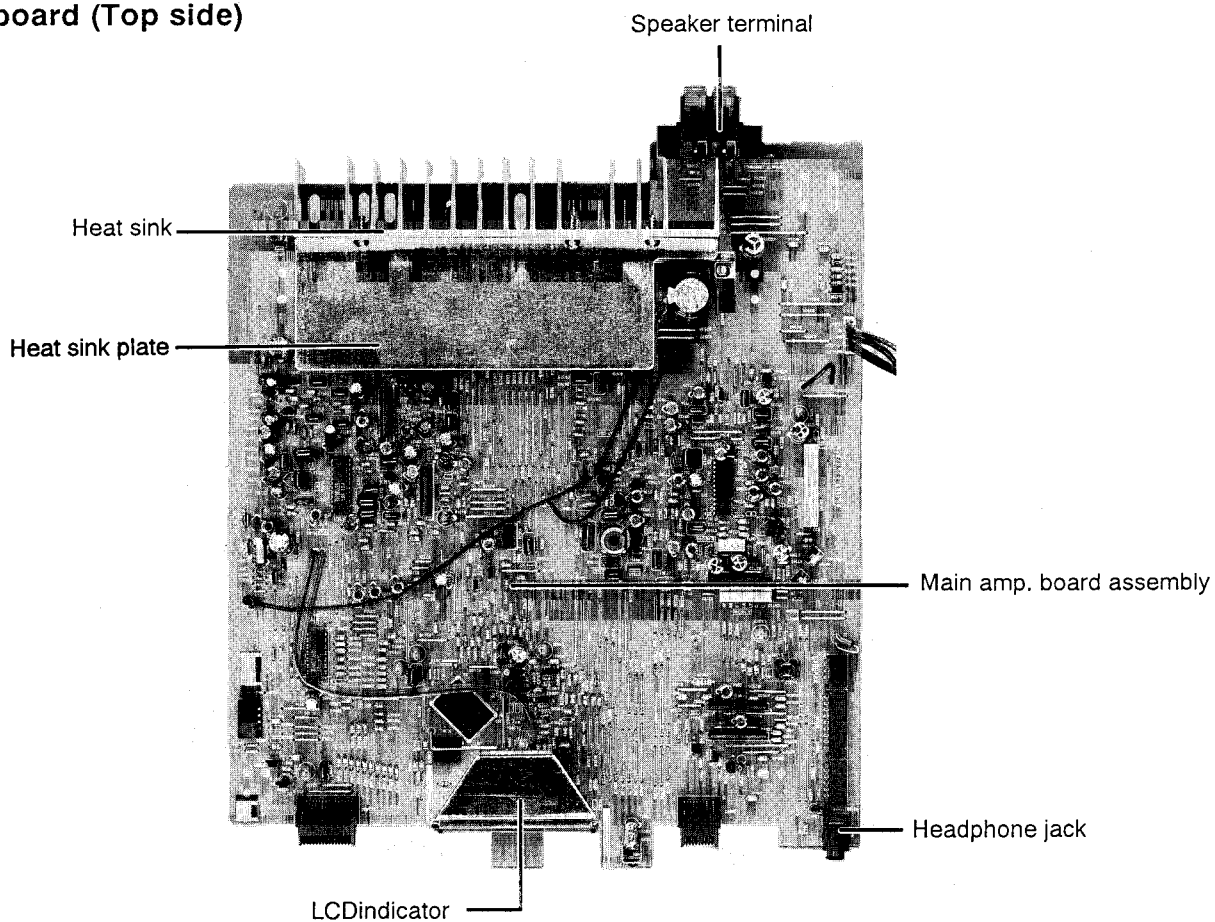
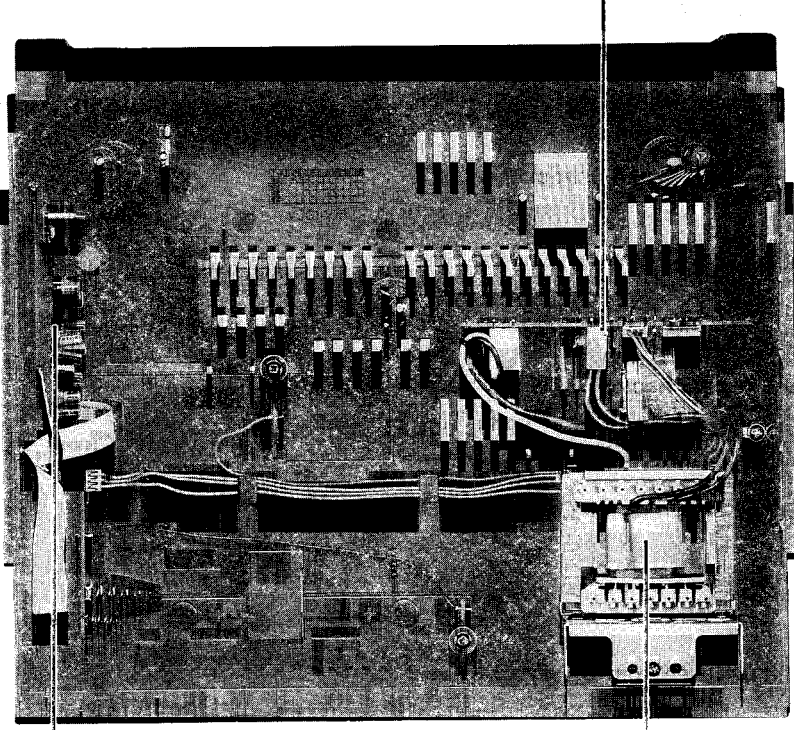


Fig. 1 - 8

■ Rear cabinet inside view

Power supply board assembly



Tuner board assembly

Power trans former

Fig. 1 - 9

2 Removal of Main Parts

■ Enclosure section

◆ Front cabinet (Fig.2-1~Fig. 2-2)

1. Remove the six screws ① retaining the front cabinet from the rear and bottom. (Use a screwdriver with a shank length of 22 cm or more.)
2. Remove the two screws ② retaining the front cabinet from both sides.
3. The front cabinet can be removed if pulled towards the front.

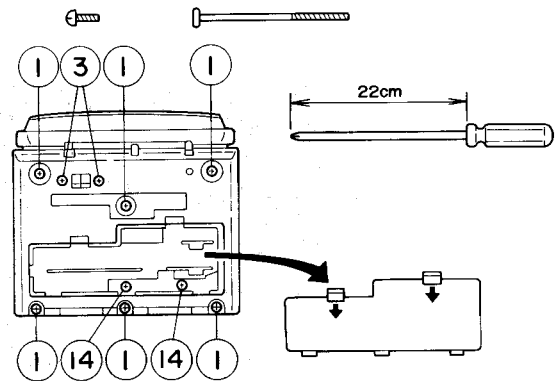


Fig. 2-1

◆ CD player unit (Fig. 2-3)

1. Disconnect the three flat wires connected to the CD player from main PC board connectors CN401, CN905, and CN904.
 2. Disconnect the changer earth connector CN403 on the main board.
 3. Remove the two screws ④ retaining the CD changer unit from battery house.
 4. The CD player unit can be removed from the rear cabinet if pulled towards the front.
- (※ At this time, you can replace the fuse mounted on the power PC board in the back right corner of the rear cabinet.)

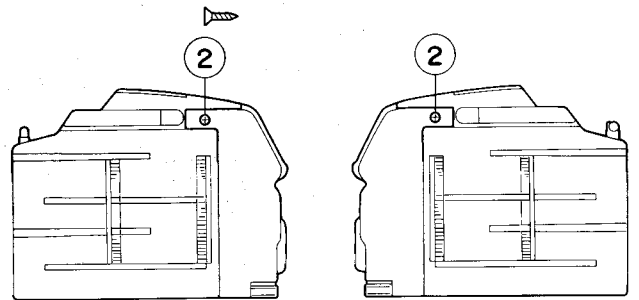


Fig. 2-2

◆ Cassette mechanism and main amplifier board assembly unit (Fig. 2-1, Fig. 2-3)

1. Remove the two screws ③ securing the speaker terminal from the rear of the rear cabinet. (See Fig. 2-1.)
2. From the front, disconnect the flat wire to the tuner PC board from main PC board connector CN903.
3. Pull out the cassette mechanism and main PC board ass'y from the rear cabinet, then disconnect the wire connector (FW601) on the main PC board from power PC board ass'y connector CN191 located in the back right corner of the rear cabinet.

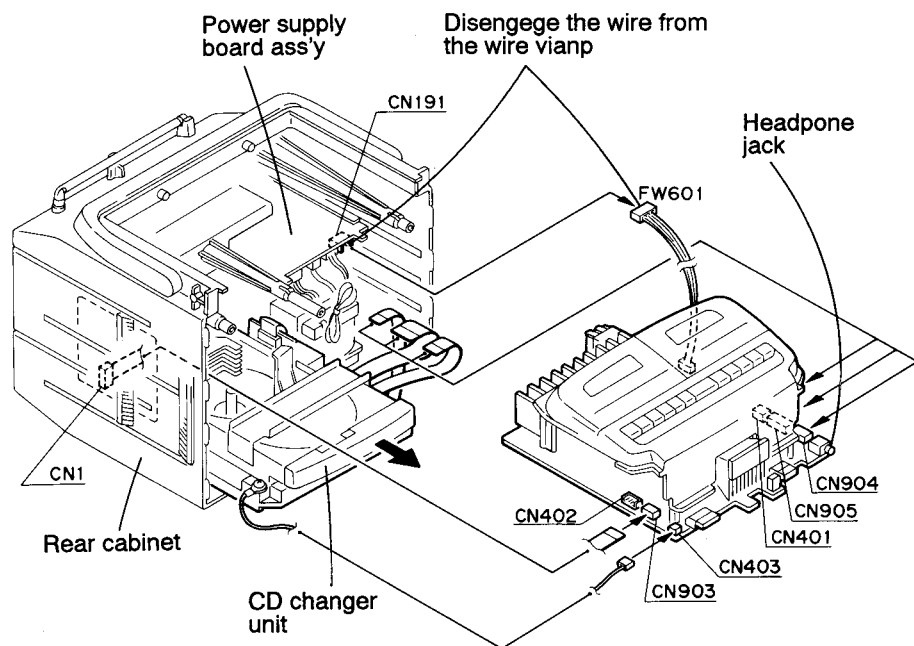


Fig. 2-3

◆ Power transformer and power supply board assembly (Fig. 2-4)

1. Install the AC jack of the power PC board assembly onto the rear cabinet, then remove the two screws ④.
2. Disengage the tab on the battery PC board, then remove the PC board together with the power PC board. If necessary, disconnect the connector to the power transformer and battery wire (CN192, CN193 and CN194).
3. Disengage the power transformer wire and battery wire holder.
4. Remove the three screw ⑤ retaining the power transformer assembly.

◆ Tuner board ass'y (Fig. 2-4)

1. Disconnect the antenna wire from TP1 on the tuner PC board.
2. Remove the two screws ⑦ retaining the PC board holder.
3. Pull out the PC board assembly from the rear cabinet.

◆ Internal parts of the front cabinet (Fig. 2-5)

1. Remove the front cabinet.
2. Remove the four screws ⑧ retaining the power/Function switch board.
3. Disengage the two pawls ⑨ retaining the power/Function switch board.
4. Remove the three screws ⑩ retaining the PC board holder.
5. Remove the five screws ⑪ retaining the changer switch PC board.
6. Remove the two pawls ⑫ retaining the changer switch PC board.

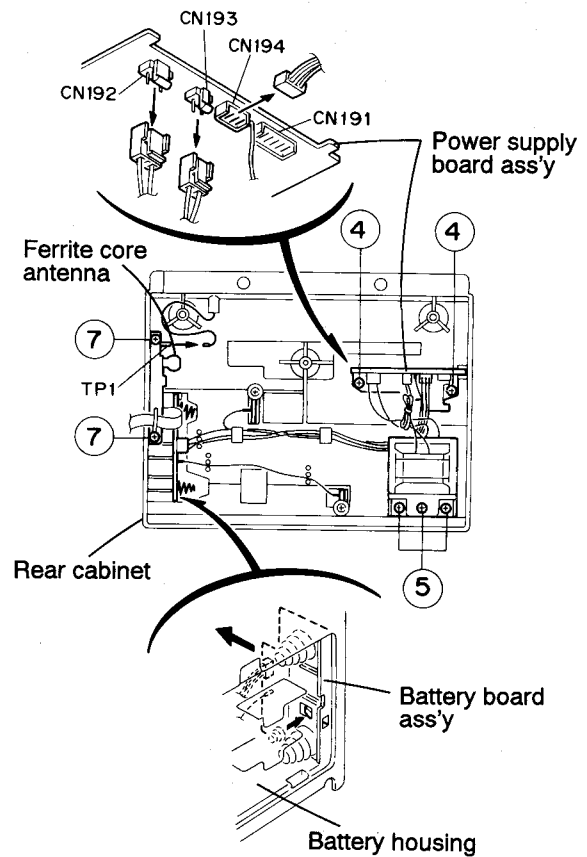


Fig. 2-4

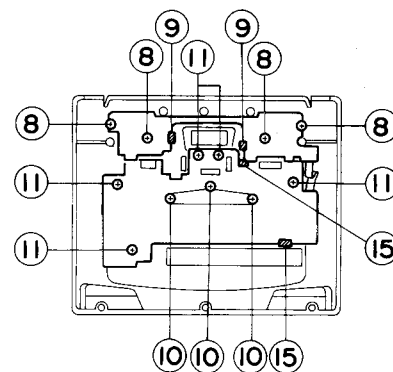


Fig. 2-5

◆ Main board ass'y and cassette mechanism ass'y

(Fig. 2-6~Fig. 2-7)

1. Remove the front cabinet.
2. Remove the cassette mechanism assembly and main board assembly unit from the rear cabinet.
3. Turn the unit upside down so that the top cabinet faces down.
4. Remove the four screws ⑫ retaining the main board ass'y.
5. Slightly lift the main PC board, then disconnect the parallel wires coming from the switch PC board assembly from CN701 on the main PC board assembly.
6. Turn the main PC board assembly upside down (the parts side will face up). Disconnect the wire holder PP on the PC board, then disconnect the A mechanism head wire CN702 (7 pins), the B mechanism head wire CN701 (3 pins), and the mechanism drive connector CN703 (15 pins).
7. Remove the six screws ⑬ retaining the mechanism.
8. Open the cassette door, then remove the cassette mechanism unit from the top cabinet.

◆ Removing the cassette door (Fig. 2-8)

- a. Remove the cassette mechanism ass'y, push the cassette door left arm inward, disengage the door shaft and remove it from the top cabinet. Make sure to hold the edge while performing this step or the door spring may fly out, possibly causing injury.
- b. When reattaching, start with the door spring side, then push the opposite side in.
- c. Fit the door spring into the slit.

(※ Although cassette door removal is possible with the mechanism assembly mounted, removing the mechanism assembly beforehand will make it easier and ensure correctness.)

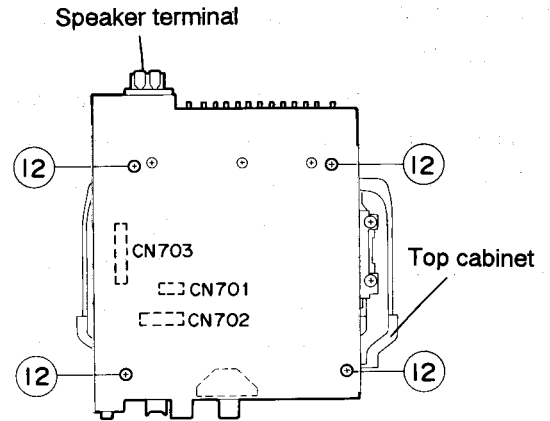


Fig. 2-6

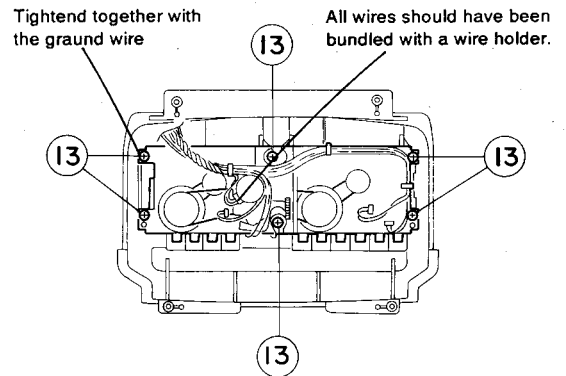


Fig. 2-7

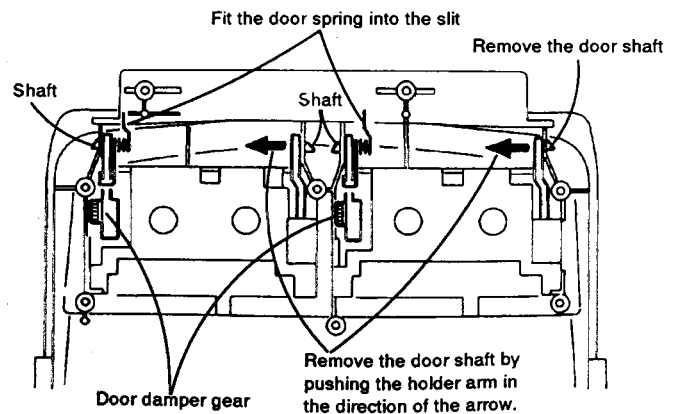


Fig. 2-8

■ CD changer section

◆ Removing the CD Mechanism Holder

1. Remove the four screws ① retaining the CD mechanism holder.
2. After turning over the changer unit, remove the two screws ② retaining the shield plate and one screw ③ retaining the CD amp.
3. Remove the shield plate of the pickup unit, and raise the CD amp. P.C. board assembly. Next, disconnect the two wires connecting the P.C. board and CD mechanism, as well as the pickup card wire (CN601) and motor wire (CN602).

◆ Clamper Unit

1. Remove the two screws ④ retaining the clamper unit from both sides of the mechanism.
2. After opening the bottom side of the clamper bracket a little toward outside, remove the bracket.
3. Remove the sensor P.C. board as necessary from the clamper bracket (For this purpose, remove the one screw retaining the P.C. board).

◆ CD Tray (Disc Base)

* Under the conditions wherein the laser pickup has been raised, lower the pickup while turning the gear G4 (L) of the CD mechanism unit fully in clockwise direction. Then, it will become ready to pull out the tray.

1. After pulling out the CD tray by about 50 mm, remove the one screw ⑤ retaining the stopper bracket provided on the right side of the tray.
2. Pull out the tray fully to the movable position, and turn over the changer unit.

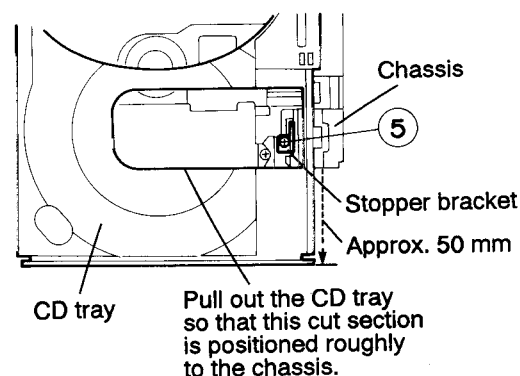


Fig. 2-12

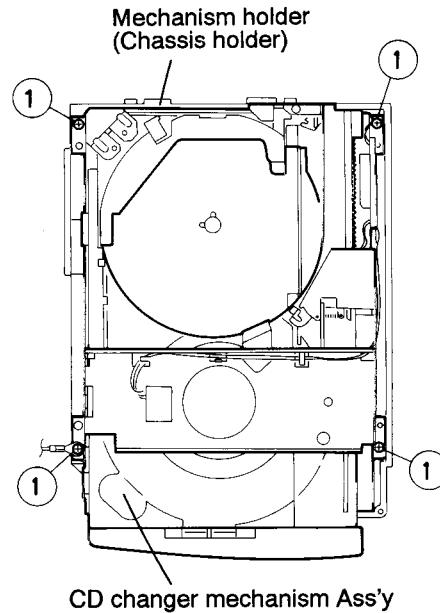


Fig. 2-9

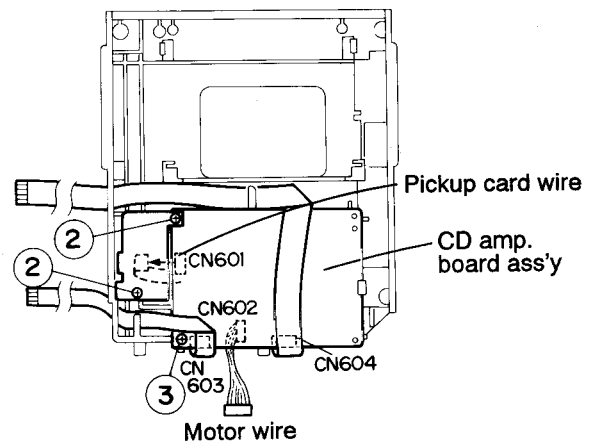


Fig. 2-10

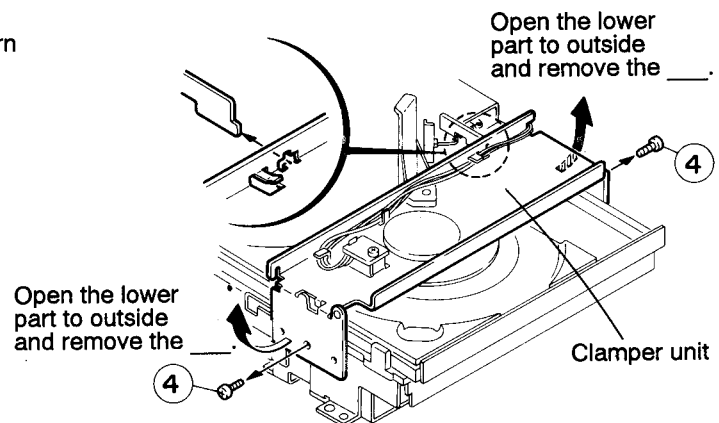


Fig. 2-11

3. Remove the pawl of the cover plate from the tray stopper. Then, the cover plate A can be moved closer to the cover plate B by means of spring action.
4. Set the changer unit to its normal position (by turning the unit to its initial position).
5. After fully pulling out the tray, remove the tip section on the right side of the tray (Disc base) from the stopper.

- a: Pull out the tray while twisting it upward so as to make it possible to pull out the tray (Disc base) from above the slide switch (blue) lever. Then the chassis stopper section will be removed together with the tray at the same time.
- b: Thus, the tray will be removed at the same time (The loading plate will be set free under this condition). For assembly, insert the tray while pulling up the tip on the right side of the tray so as to cross over the chassis stopper section. Then, it will be made possible to smoothly insert the slide switch section.

◆ **Cover Plate Ass'y**

1. Remove the one screw ⑥ retaining the cover plate Ass'y.
2. While sliding the cover plate toward the right side, remove the cover plate ass'y while raising the right side of the cover plate (screw setting position).

◆ **CD Mechanism Unit**

1. From the right side of the changer chassis, remove the two screws ⑦ retaining the CD mechanism unit.
2. While pressing the two stopper sections (a) of the CD mechanism holder toward inside, remove the stopper.

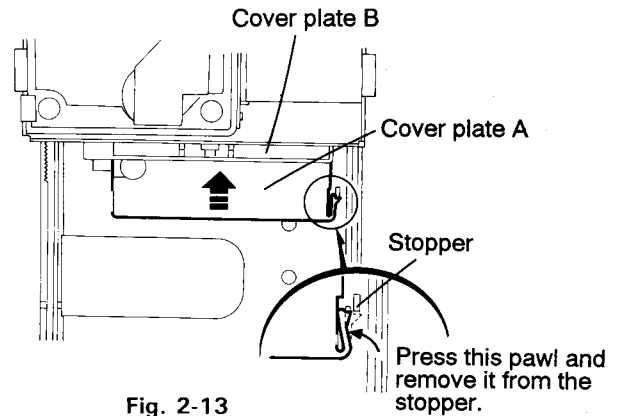


Fig. 2-13

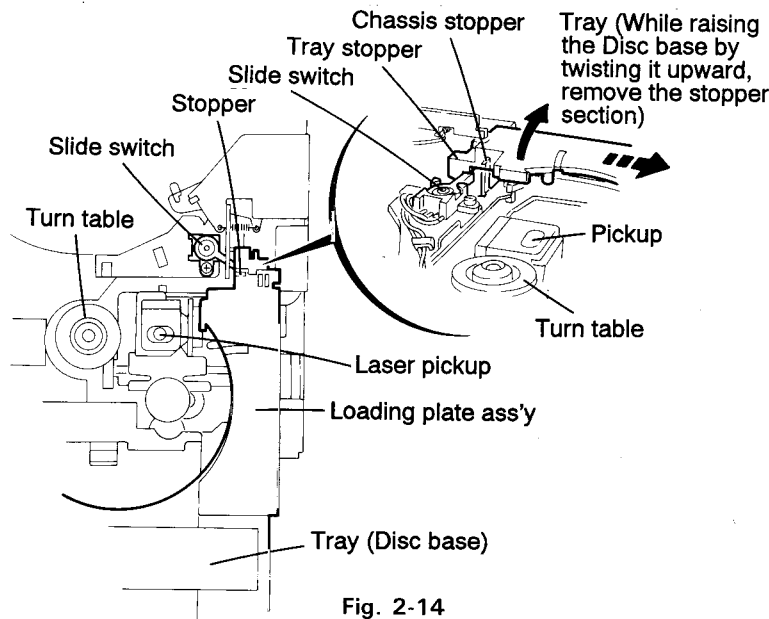


Fig. 2-14

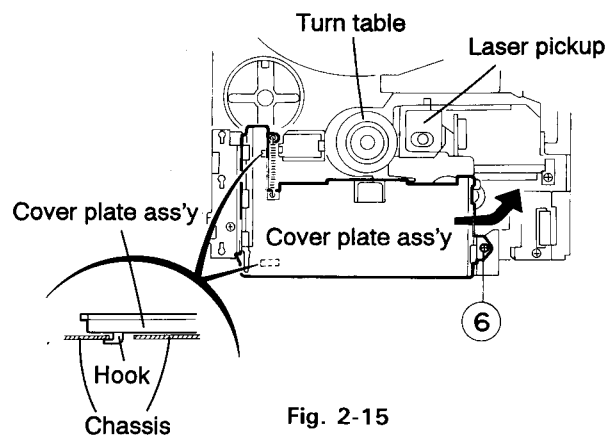


Fig. 2-15

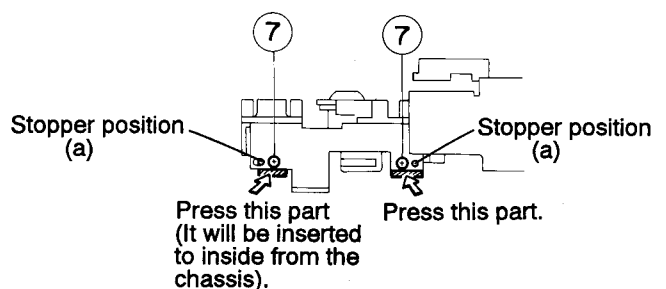


Fig. 2-16

3. In case the CD mechanism unit cannot be removed smoothly, turn the gear G4 (L) in the counterclock - wise direction. Then, the CD mechanism unit will be removed smoothly.

< **Assembly** >

1. Insert the CD mechanism holder boss on the left side of the CD mechanism unit into the groove of the gear G4 (L).
2. Set the stopper on the right side of the CD mechanism holder onto the chassis and fix the chassis with the related screws.

< **Pickup Ass'y** >

1. Remove the two right and left screws ⑧ retaining the pickup shaft stopper.
2. After moving the pickup to outside while turning the gear, pull out the shaft and remove the pickup while turning the pickup at the corner in clockwise direction.

◆ **Gear Chassis Unit**

1. From the upper front surface, remove the one screw ⑨ retaining the chassis unit.
2. From the left side surface, remove the two screws ⑩ retaining the chassis unit.
3. For protecting the switch, remove the one screw ⑪ retaining the switch P.C. board from the back side.
4. From the upper surface, remove the two screws ⑫ retaining the right side of the gear chassis.

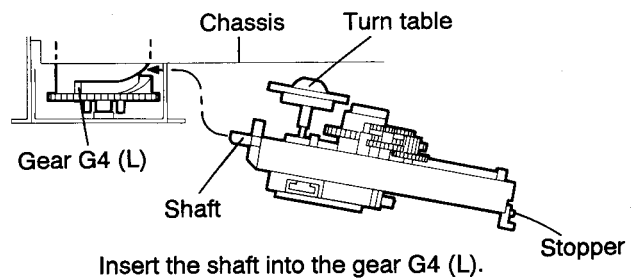
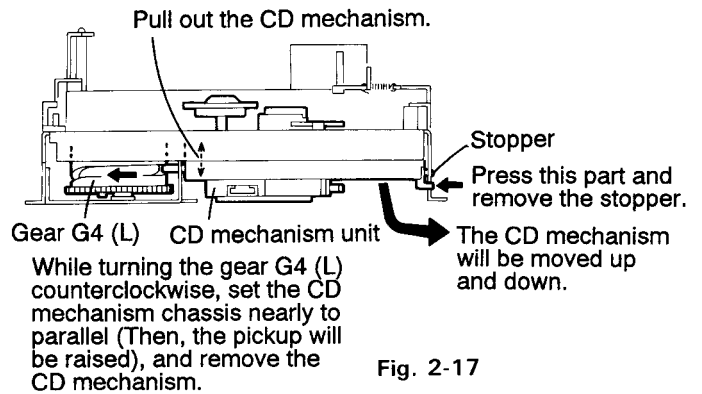


Fig. 2-18

While turning the pickup clockwise by making use of the corner, remove the pickup.

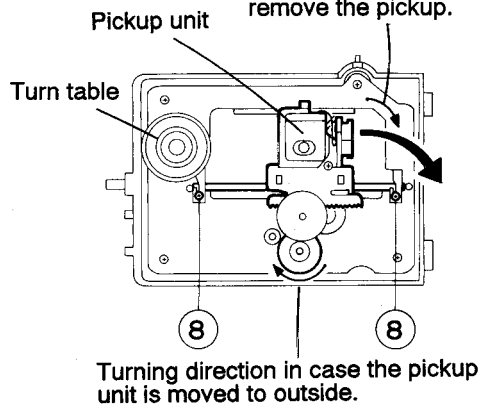


Fig. 2-19

This washer should be inserted between the chassis bracket and gear shaft.

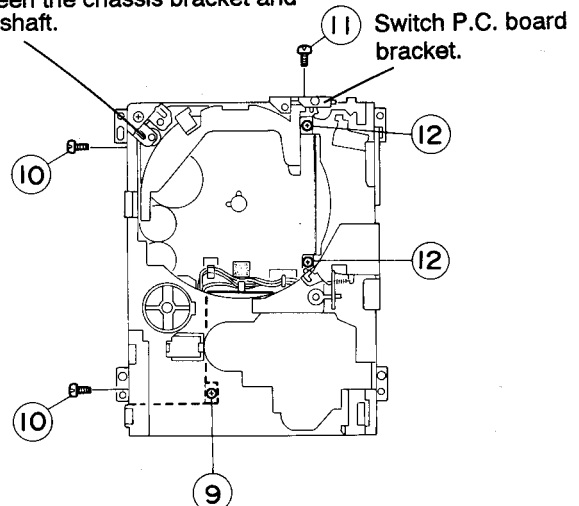


Fig. 2-20

■ **Cassette mechanism section**

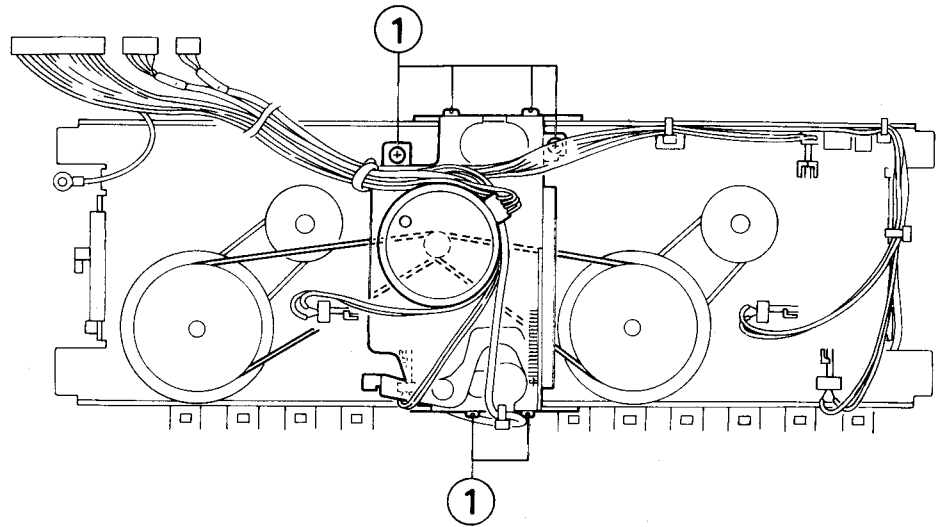


Fig. 2-21

■ **Capstan motor (Fig. 2-21, Fig. 2-22)**

1. Remove the Front panel assembly.(Refer to the article“Front panel assembly”appearing on a previous page)
2. Remove the Cassette mechanism assembly.(Refer to the article“Cassette mechanism assembly” appearing on a previous page)
3. Remove the Main board(Refer to the article “Main board” appearing on a previous page.)
4. Remove the Cassette mechanism. (Refer to the article“ Cassette mechanism”appearing on a previous page.)
5. Remove six screws ① retaining the motor bracket from the back of the cassette mechanism.
6. Take out the main belt from the flywheel assembly of mechanism A and B.
7. Remove six screws ② retaining the Capstan motor from the back of the cassette mechanism.

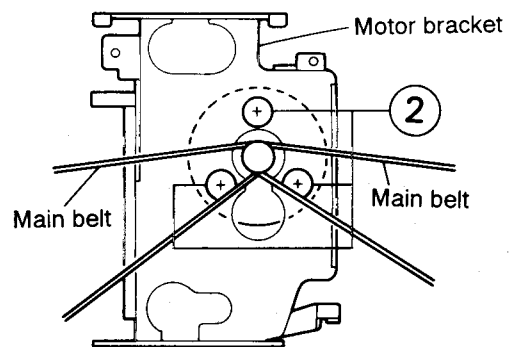


Fig. 2-22

■ **Eject slide lever (Fig. 2-23)**

1. Place the cassette mechanism back side frontward and disengage the stopper arm ⑥ of the Eject slide lever by pressing it inwards through the opening of the chassis with a small screwdriver as shown in Fig. 2-23.
2. Disengage the Eject slide lever in the direction of arrow ③.

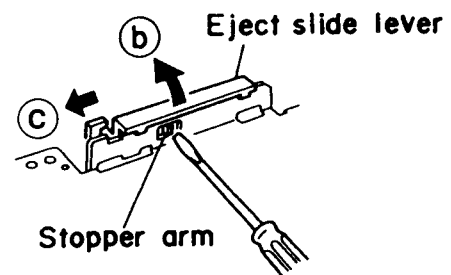


Fig. 2-23

■ **Leaf switch (Fig. 2-24)**

Press the leaf switch in the direction of the arrow ④ and then remove it in the direction of the arrow ⑤ referring to Fig. 2-24.

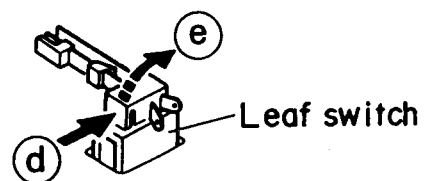


Fig. 2-24

■ Pinch roller assembly (Fig. 2-25)

1. Pull out the stopper protruding from the base assembly in the direction of the arrow ① to remove it from the pinch roller assembly.
2. Then, pull out the pinch roller assembly in the direction of the arrow ②.

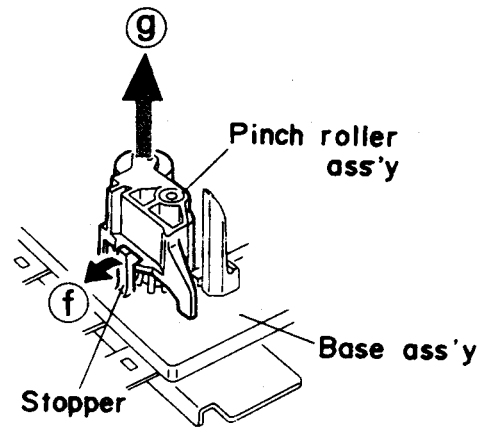


Fig. 2-25

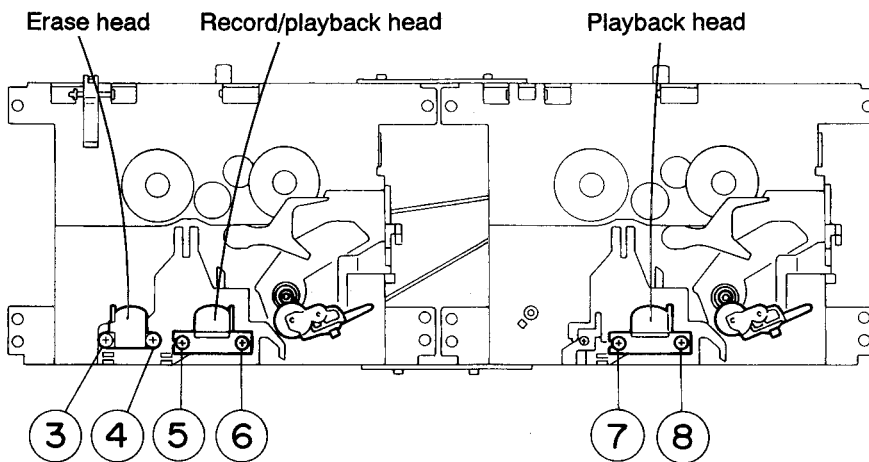


Fig. 2-26

■ Record/Playback head & Erase head

(Fig. 2-26, Fig. 2-27)

1. Remove two screws ⑤ and ⑥ retaining the Record/Playback head of mechanism A.
2. Remove two screws ⑦ and ⑧ retaining the Playback head of mechanism B.
3. Remove two screws ③ and ④ retaining the erase head.

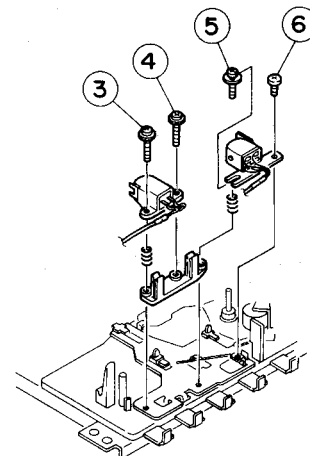


Fig. 2-27

■ Flywheel assembly (Fig. 2-28)

1. E. washer retaining the flywheel assembly in the direction of arrow ①.
2. Pull the flywheel assembly out of the back side of the cassette mechanism in the direction of the arrow ②.

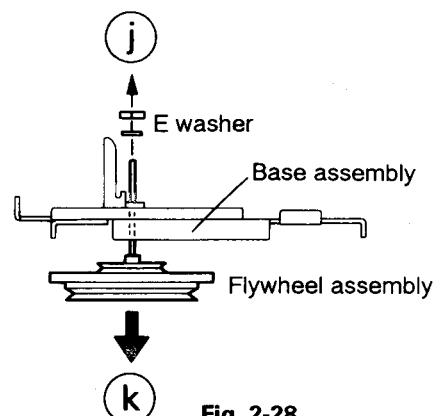


Fig. 2-28

3 Main Adjustment

■ Test Instruments required for adjustment

1. Low frequency oscillator
(oscillation frequency: 50Hz to 20kHz)
(Output : 0 dBs with 60 Ω terminator)
2. Attenuator(Impedance : 600 Ω)
3. Test Tapes
VTT712 (VT712) For tape speed,wow and flutter measurement
VTT724 (VT724) For play back output level
VTT739 (VT739)For playback frequency response check
VTT703 (VT703)For head azimuth measurement
4. Electronic voltmeter, Distortion meter
5. Resistor...600 Ω for attenuator matching
6. Torque gauge..... Cassette type for CTG – N mechanism adjustment
7. Wow and Flutter meter , Frequency counter
8. Blank tape..... Normal:UR,Chrome: AC225

■ Measuring conditions (Amplifier section)

- Supply voltage AC120 V (60 Hz)
Reference output : Speaker 0 dBs (0.775V) / 3 Ω
(Volume Level: 19)
: Headphone · - 10 dBs (0.245V)/ 32 Ω

● Standard position of functionswitches

- Function switch TAPE
Mode switch STEREO

● Standard position of volume control

- Sound Flat position
AHB PRO.....OFF
Main volume adjust 0 dBs Speaker out(Vol.19)
Headphone out (Vol. 20)
Beat cut switchCut1
Standard test frequency.....1 kHz

; unless otherwise specified.

- Reference input level..... TP(CN402): - 20dBs
Input for REC/PB, Check &measuring CN301
: -20 dBs

● Test remarks

1. Negative side of the input and output on the testing set, that ought to be separately to each other, and then bear in mind there connection the testing set with 2 channeles Electronic voltmeter, the negative side never connect commonly.
2. Replaced output load with a dummy and that lead wire to be used as big as possible.
3. Attach top cover when measuring and connect filter shown below Fig. 1 to V. meter.

■ Measuring condition (Radio section)

- Refer to rating sourceTuner+B : DC 5.7V
Reference output Speaker : 20mW(0.245 V) / 3 Ω
Headphone : 0.11 mW (0.06 V)/32 Ω
AM frequency 400Hz modulation 30%
FM frequency 400Hz modulation
frequency deviation 22.5kHz

● Standard position of switches and controllers

- Function..... RADIO
Mode STEREO

● Careful points for adjustment

1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input side in series.
- 2.Set output level of the IF sweeper as minimum as adjustable.
3. RF Alignment order
Procedure of the steps of tracking should be kept.

◎ Test point : CN402 (Top view)

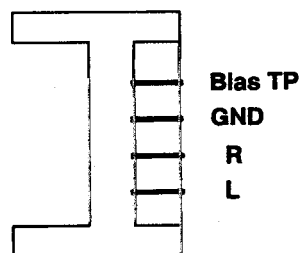


Fig. 3 - 1

■ Arrangement of adjustment position

■ Cassette mechanism

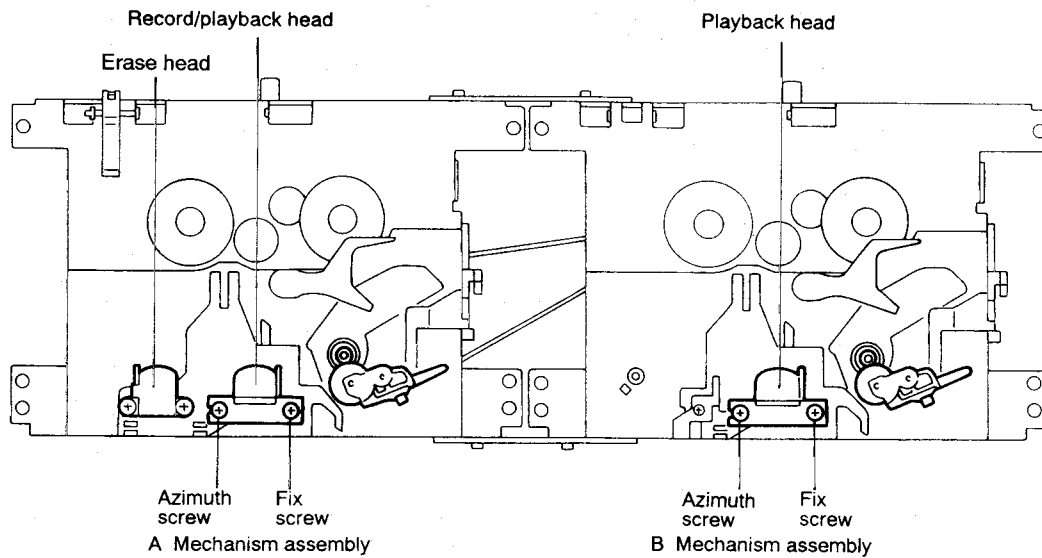


Fig. 3-2

■ Tuner board

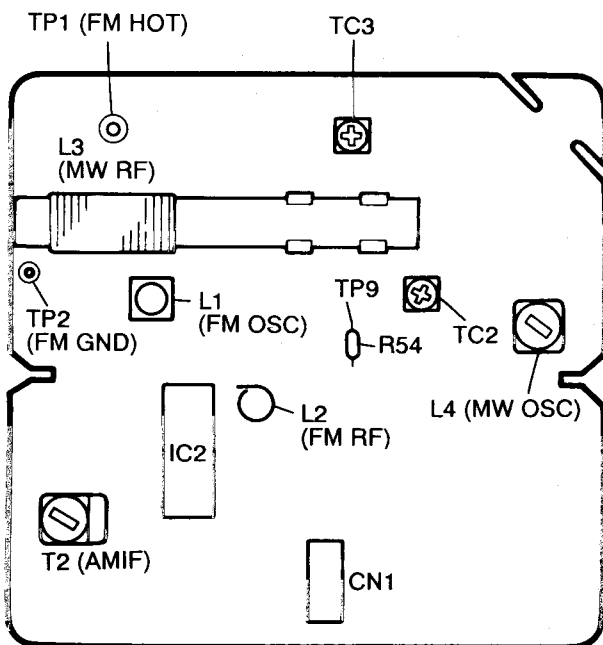


Fig. 3-3

■ Main board

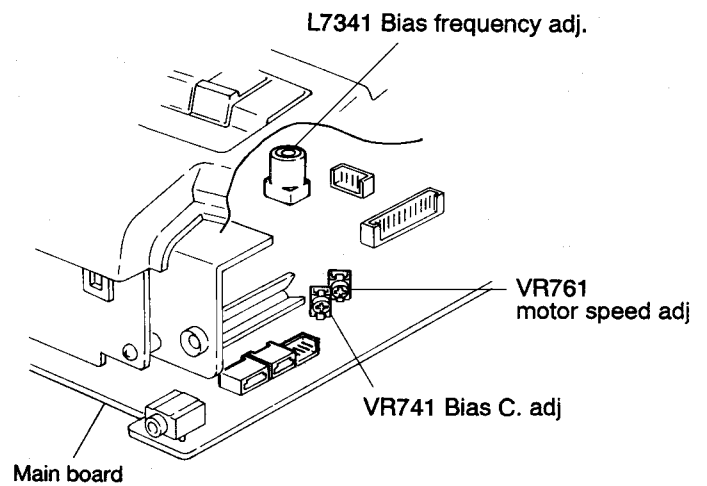


Fig. 3-4

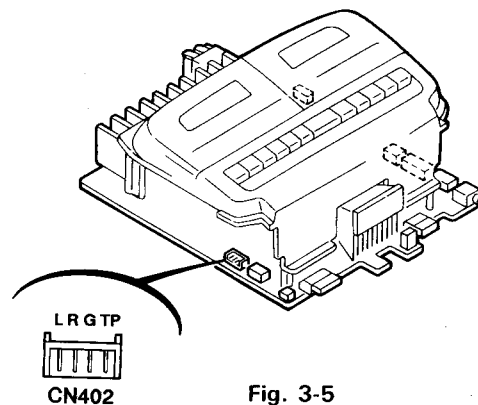


Fig. 3-5

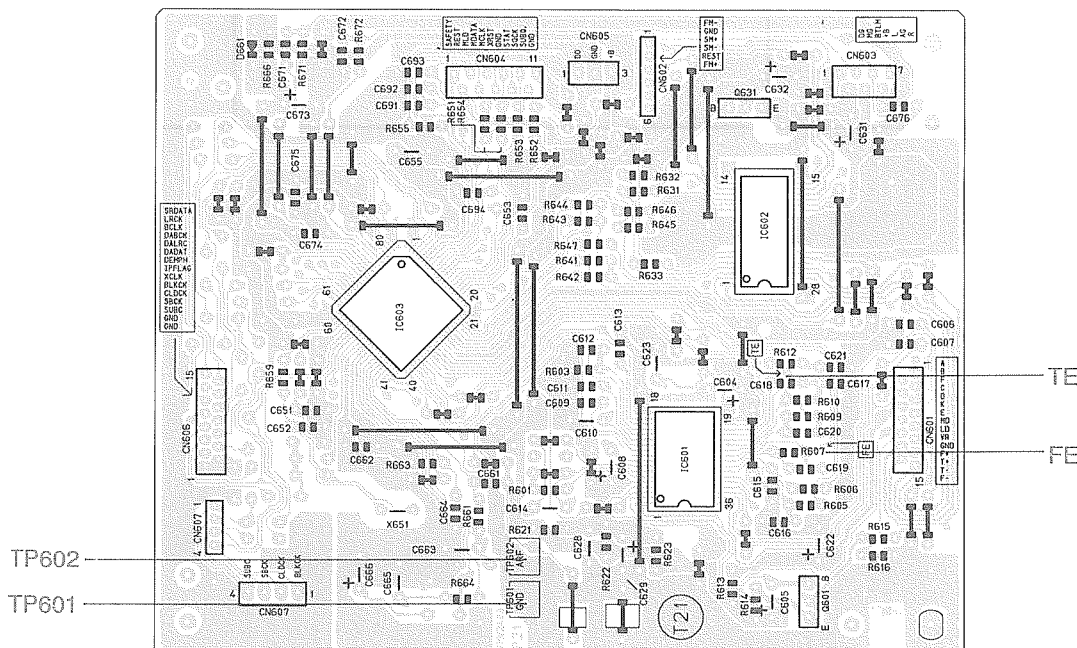
■ Cassette and amplifier section

| Item | Condtions | Adjustment & Confrimation Methods | Stand. values | Adjust |
|---|--|--|---|------------------------------|
| Head azimuth adjustmentf (A, B mechanism) | <ul style="list-style-type: none"> • Test tape : VTT703(10KHZ) • Output terminal for measurement : Headphone • Input terminal for measurement : CN301 | <p>* Adjust the head azimuth screw only when the head is replaced.</p> <ol style="list-style-type: none"> ① Playback test tape VTT703 (10kHz). ② Adjust the head azmiuth so that the phase difference is minimum (Within 2dB of the peak level of play output.) After adjustment apply the screw locking adhesive to the head azimuth screw more than a half around the screw head. | Within 2dB of the peak level Minimum phase difference | Head azimuth adjusting screw |
| Tape speed adjustment and wow & Flutter checking (A, B mechanism) | <ul style="list-style-type: none"> • Tast tape : VTT712 (3kHz) • Output terminal for measurement : Headphone | <ol style="list-style-type: none"> ① When playing test tape VTT712 (3kHz). ② Adjust VR761 so that the frequency counter reading is 2990Hz~3010Hz. ③ Wow & Flutter should be less than 0.4% (JIS UNWTD). | <ul style="list-style-type: none"> • Tapre speed : 2990Hz~3010Hz Wow & Flutter : Less than 0.4% (JIS UNWTD) | VR761 |
| Play back output level checking (A, B mechanism) | <ul style="list-style-type: none"> • Tast tape : VTT724 (1IHZ) • Output terminal for measurement : Headphone | <ol style="list-style-type: none"> ① When Playback the test tape VTT724 (1kHz), the output level at headphone is $-24\text{dB} \pm 3\text{dB}$ ② Deviation L and R : less than 3dB. | $-24\text{dB} \pm 3\text{dB}$ | |
| Playback frequency response checking (A, B mechanism) | <ul style="list-style-type: none"> • Tast tape : VTT739 • Output terminal for measurement : Headphone | When playback the test tape VTT739, response should be $-5\text{dB} \pm 4\text{dB}$ at 63Hz and 1kHz, $+5\text{dB} \pm 4\text{dB}$ at 10kHz and 1kHz with respect to 1kHz. | 63Hz and 1kHz : $-5\text{dB} \pm 4\text{dB}$ 10kHz and 1kHz : $+5\text{dB} \pm 4\text{dB}$ | |
| Adjusting the bias oscillation frequency | <p>Test tape: AC - 513</p> <p>Measured output pin: Oscillation coll secondary side (erase)</p> | <ol style="list-style-type: none"> ① Connect a frequency counter (with a 1M Ω resistor inserted in series)to the L7341 secondary side erase pin. ② Load the test tape (AC - 513)in the deck and set to Record - Pause mode. ③ Adjust the L7341 so that the frequency counter level reads $101.1\text{kHz} \pm 1\text{Hz}$ in Record mode. | $101.1\text{kHz} \pm 1\text{kHz}$ | L7341 |
| Record/playback frequency response adjustment (A mechanism) | <ul style="list-style-type: none"> • Reference frequency : 1kHz, 10kHz (Ref. - 20dB) • Test tape: AC224 • Output terminal for measurement : CN301 | <ol style="list-style-type: none"> ① Record and playback the 1kHz reference frequency and 10kHz signal and check at treminal CN301. ② Adjust the VRA41 so that record and playback frequency response with 1kHz and 10kHz at CN301 is $\pm 0\text{dB} \pm 1\text{dB}$. ③ Comfirm that the frequency counter reading is $101.0\text{kHz} \pm 0.15\text{kHz}$. If the reading is out of this range, adjust L7341. | $+5\text{dB} \pm 1\text{dB}$ $101.1\text{kHz} \pm 0.15\text{kHz}$ | VR741 L7341 |
| Record/playback sensitivity check | <ul style="list-style-type: none"> • Test tape: VTT724, AC224 | While recording/playing back sn input signal of the reference leve (REC level), confirm that difference between the REC/PB level of the input signal and PB level of the VTT724 test tape is within $0 \pm 3\text{dB}$. | $0 \pm 3\text{dB}$ | |

■ Tuner section

| Item | Conditions | Adjustment & Confirmation Methods | Stand. values | Adjust |
|------------------------|---|--|---|---|
| FM, AM IF adjustment | | ☆ Since a solid IF is being used, no adjustment is required. | | |
| MPX adjustment | | ☆ Since a ceramic resonator is being used, no adjustment is required. | | |
| FM tracking adjustment | | ☆ Since a fixed coil is being used, no adjustment is required. | | |
| AM tracking adjustment | <ul style="list-style-type: none"> • Band : AM • Signal input Standard loop antenna • Test point : TP1(Positive) : TP2(Negative) : TP9 • Signal output : CN1 | <ol style="list-style-type: none"> ① Confirm so that the CN1 output is maximum when 530kHz(preset 1) is received from AM signal generator. ② Incase voltage at TP9 is more than 5.0V. adjust L4 to obtain $5.0 \pm 0.1V$ at TP9. ③ Adjust L3 so that the CN1 output is maximum when 600kHz(preset 3) is received from the AM signal generator. ④ Adjust TC2 so that the CN1 output is maximum when 1500kHz(preset 4) is received from the AM signal generator. ⑤ Repeat the item ④, ⑤, adjust for no further improvement. | Output level : Maximum $5.0 \pm 0.1V$ at TP9. Output level : Maximum Output level : Maximum | L4 L3 TC2 L3 , TC2 |

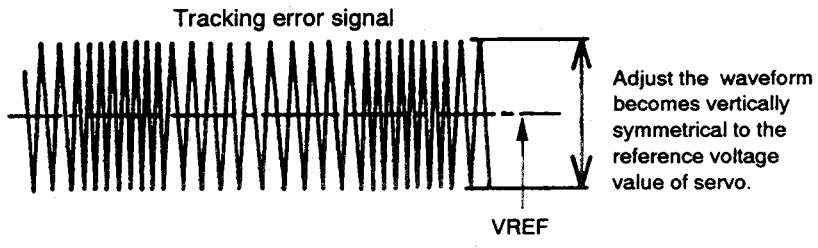
● Adjusting position of CD amplifier board



■ CD section

| Items | Conditions | Adjustment and Confirmation | Standard Value | Adjusting |
|---|--|--|--|-----------|
| 1. Checking jitter | Measurement equipment: Oscilloscope (jitter meter) Test points: TP601: ground side TP602: hot side | Connect the jitter meter between the TP601 and TP602, and check that the jitter meter reads 26 nsec. or less when playing back the test disc "Track 1". | 26 nsec. or less | |
| 2. Checking the RF level (eye pattern) | Measurement equipment: Oscilloscope TP601: ground side TP602: hot side | Connect the oscilloscope between the TP1 and TP2, and check that the peak-to-peak value of the oscilloscope waveform reads within $1.1 \text{ V} \pm 0.2 \text{ V}$ when playing back the test disc "Track 1". Eye pattern waveform | $1.1 \text{ V} \pm 0.2 \text{ V}$ Check that the maximum level of this waveform is within the standard values and that the waveform is clearly visible. | |
| 3. Checking the outermost area | CTC-1000 | Select "Track 28" on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error. | | |
| 4. Checking the pickup movement from the outer area to the inner area | | Allow the pickup to skip over from the disc's outermost area to "Track 1" and check that it takes within 10 seconds for the player to enter Play mode. | Within 10 seconds | |

| Item | Conditions | Adjustment & Confirmation Methods | Stand. values | Adjust |
|----------------------------|--|---|---|--------|
| Tracking offset adjustment | <p>Test disc :CTS1000 Oscilloscope</p> <p>Note 1 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo.</p> <p>Note 2 The oscilloscope input should be DC - coupled.</p> <p>Note 3 VREF: Ground level on the oscilloscope.</p> | <p>① Connect TP503 (TE) and TP501 (VREF) respectively to the hot and ground sides of the oscilloscope.</p> <p>② Replay the test disc CTS1000.</p> <p>③ When TP504 and TP501 have been connected (Shorted) during replay, a tracking error signal will be emitted for about 3 sec. (Since the tracking error signal will be emitted at all times when the model with a test mode function is shifted to TEST mode, the adjustment can be performed more easily).</p> <p>④ Since the waveform of tracking error signal displayed by the oscilloscope goes up and down when VR501 has been adjusted, adjust VR501 so that the center of the waveform amplitude becomes a reference voltage value of servo(VREF).</p> <p>⑤ Repeat the steps ② - ④ until the center of the waveform amplitude of tracking error signal becomes the reference voltage value of servo (This step is not necessary in the case of the model with test mode function).</p> | Adjust the center of waveform amplitude to the reference voltage value of servo (VREF). | VR501 |



4 Wiring Connections

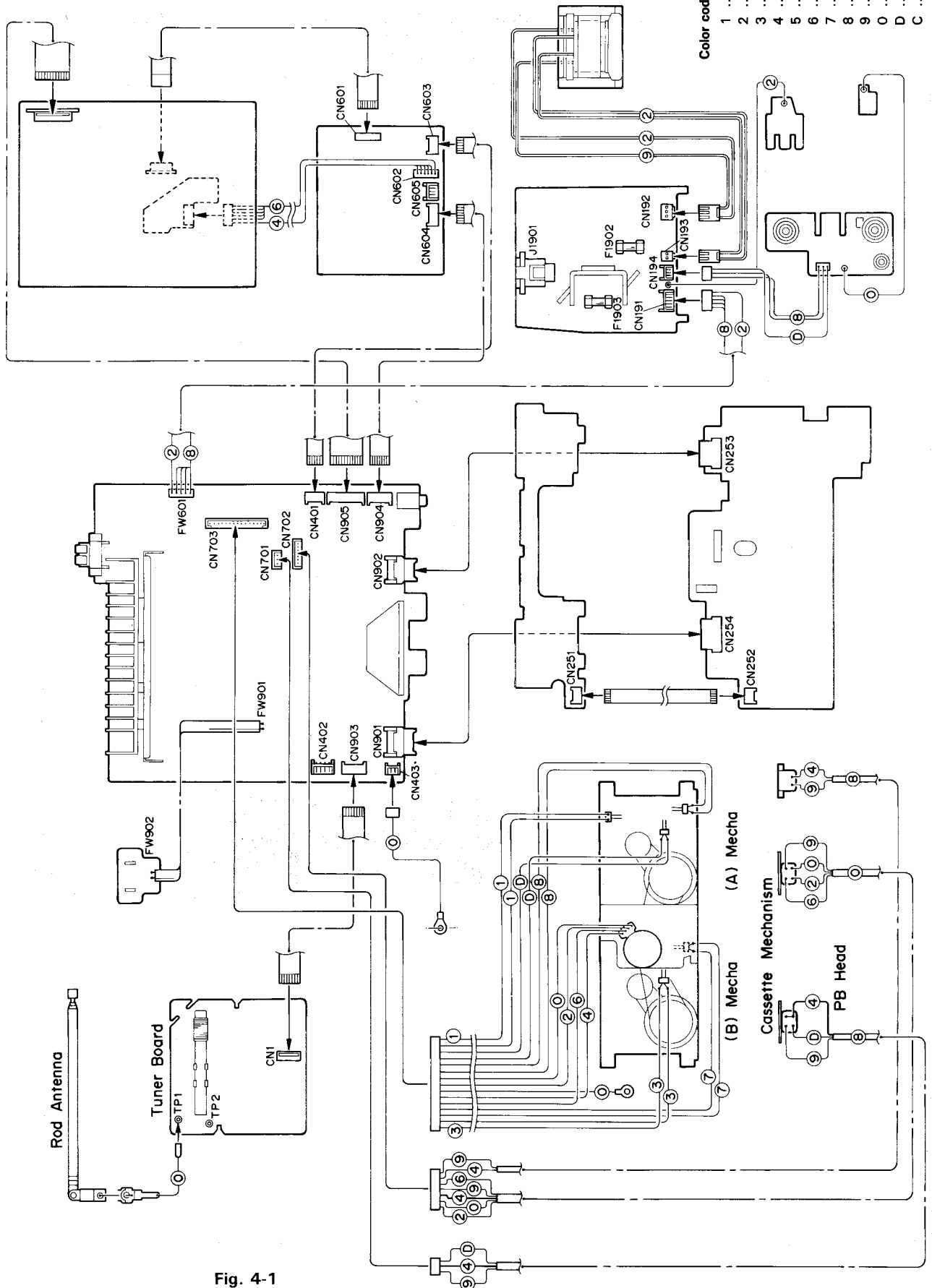


Fig. 4-1

5 Troubleshooting

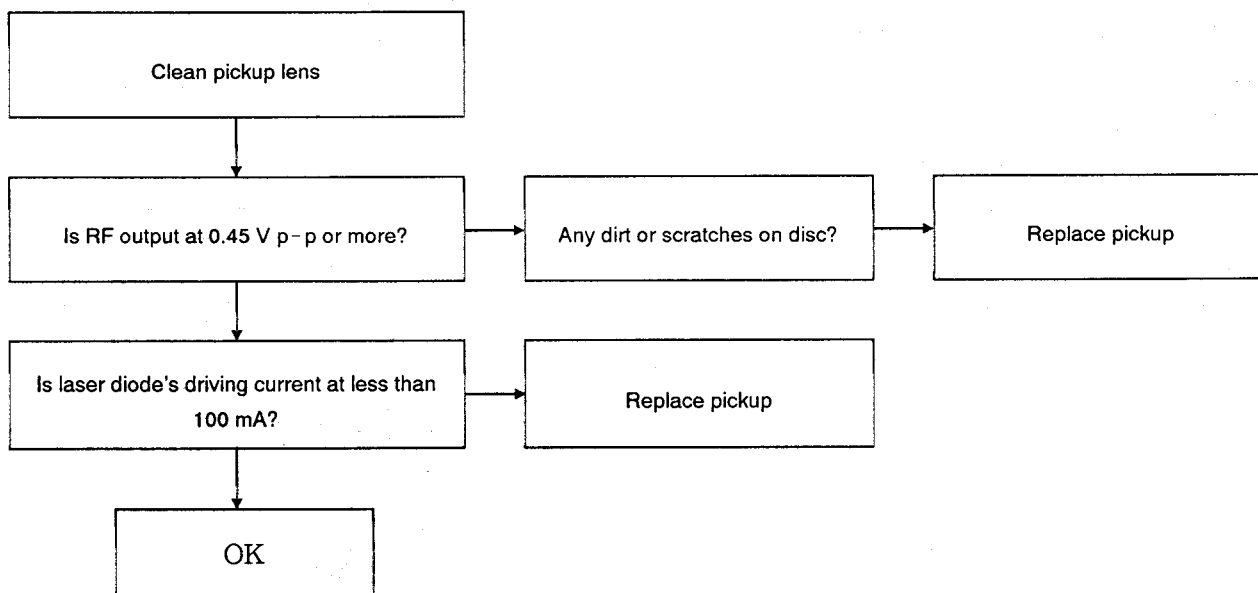
■ Pickup maintenance

(1) Checking the service life of laser diode

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

- 1) The RF output (between IC601 ⑦ and ⑱ (GND)) lowers.
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at 10 Ω .)

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



◆ How to measure laser diode's driving current

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

Laser diode's driving current (A)

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

When voltage level is at 1.0 V.

1.0 V/10 Ω = 0.1 A = 100 mA

Note:

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

◆ HOW TO OPERATE THE CD SELF - DIAGNOSIS FUNCTION

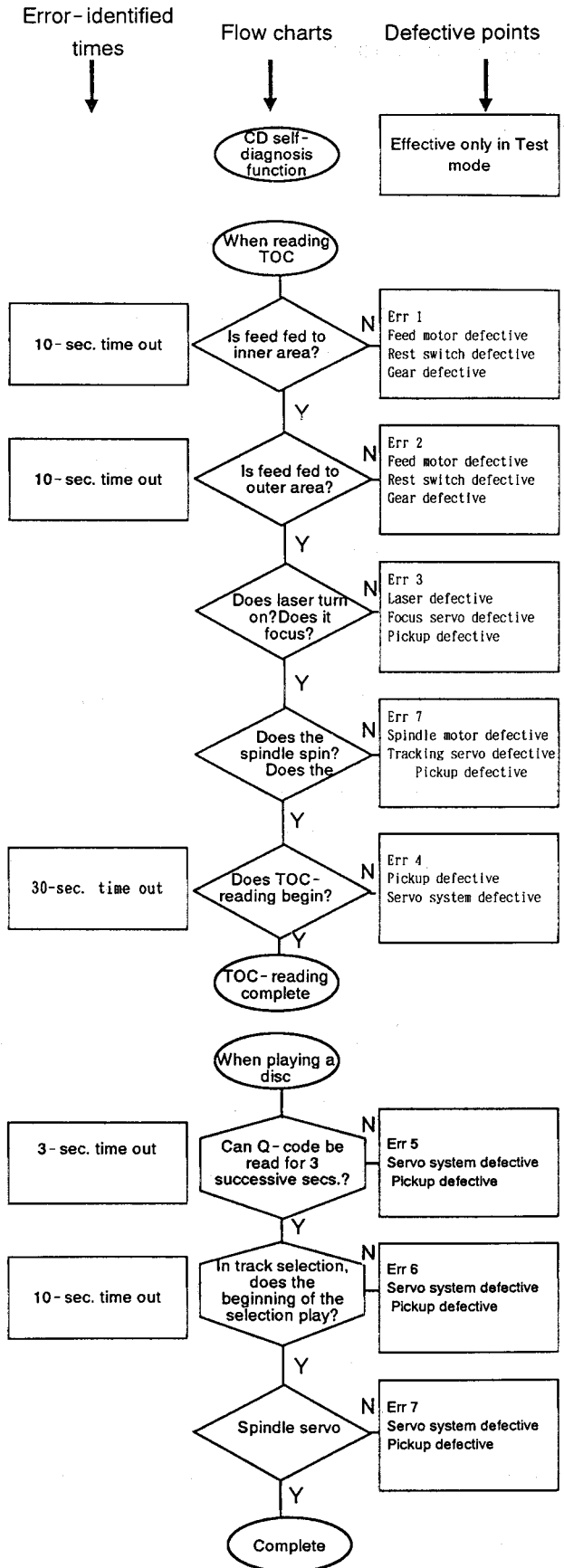
◆ The CD Self-diagnosis Function

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

1. Operation

- 1 Press the three **◀**, **+10** and **POWER** buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)
- 2 Play a CD. If the operation is defective in any way, an error code should appear on the LCD.
- 3 Identify the point of malfunction in accordance with the error code displayed.

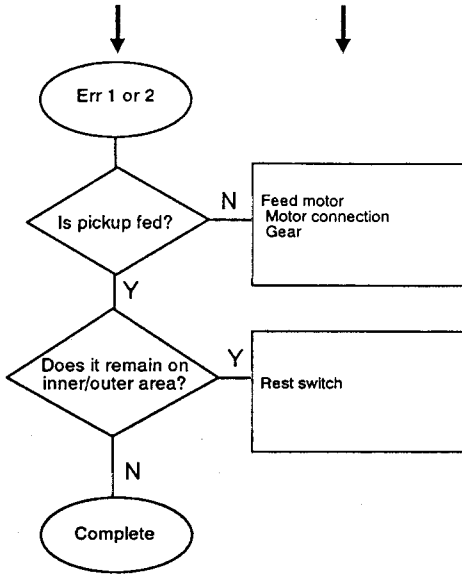
2. Error codes & defective points



Error-identified times

Flow charts

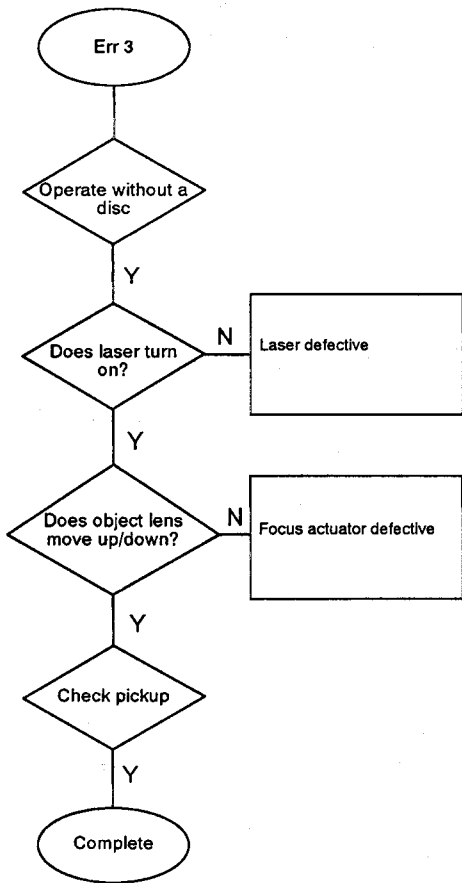
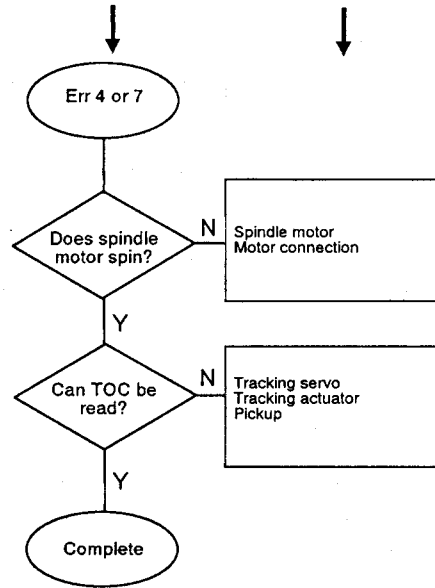
Defective points



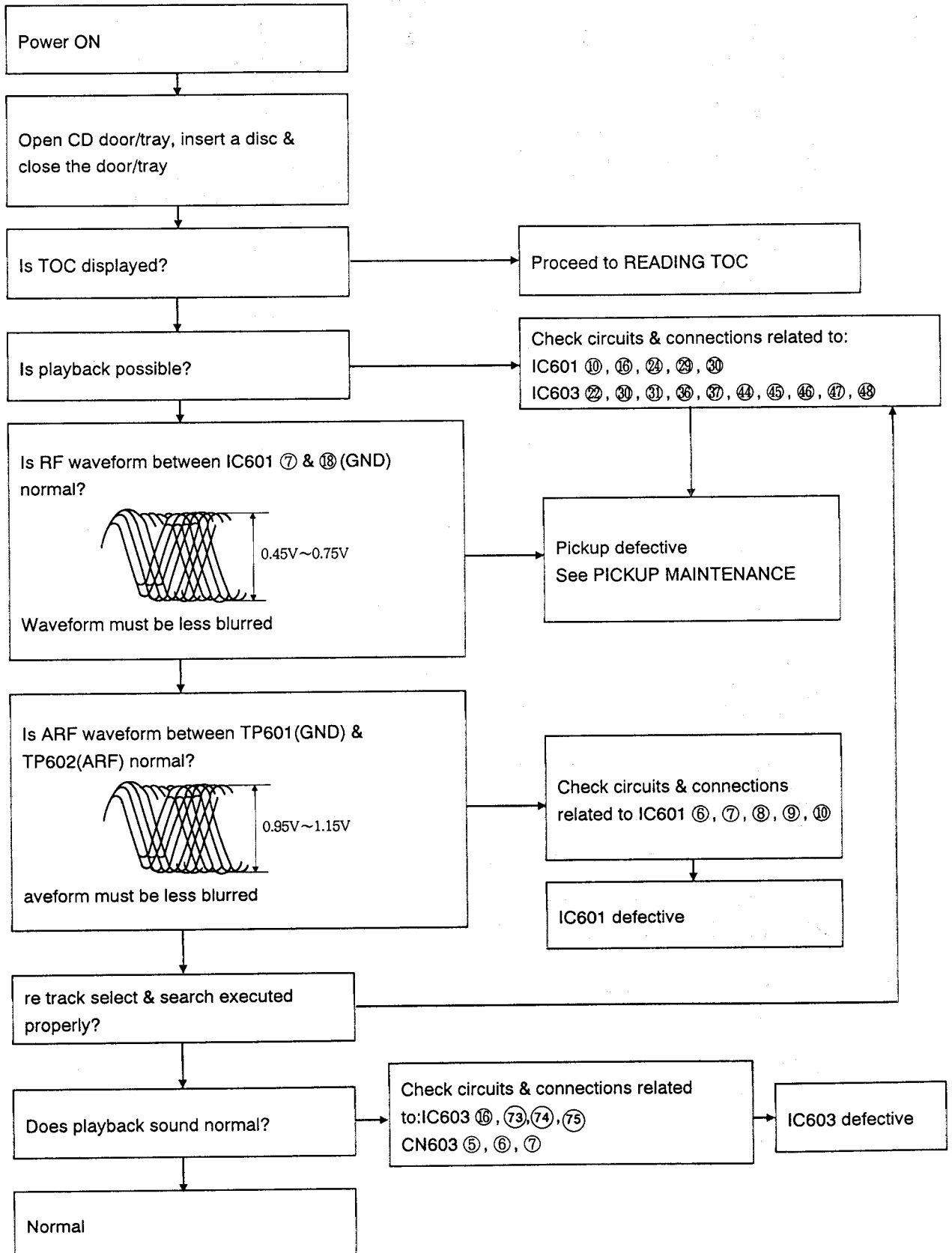
Error-identified times

Flow charts

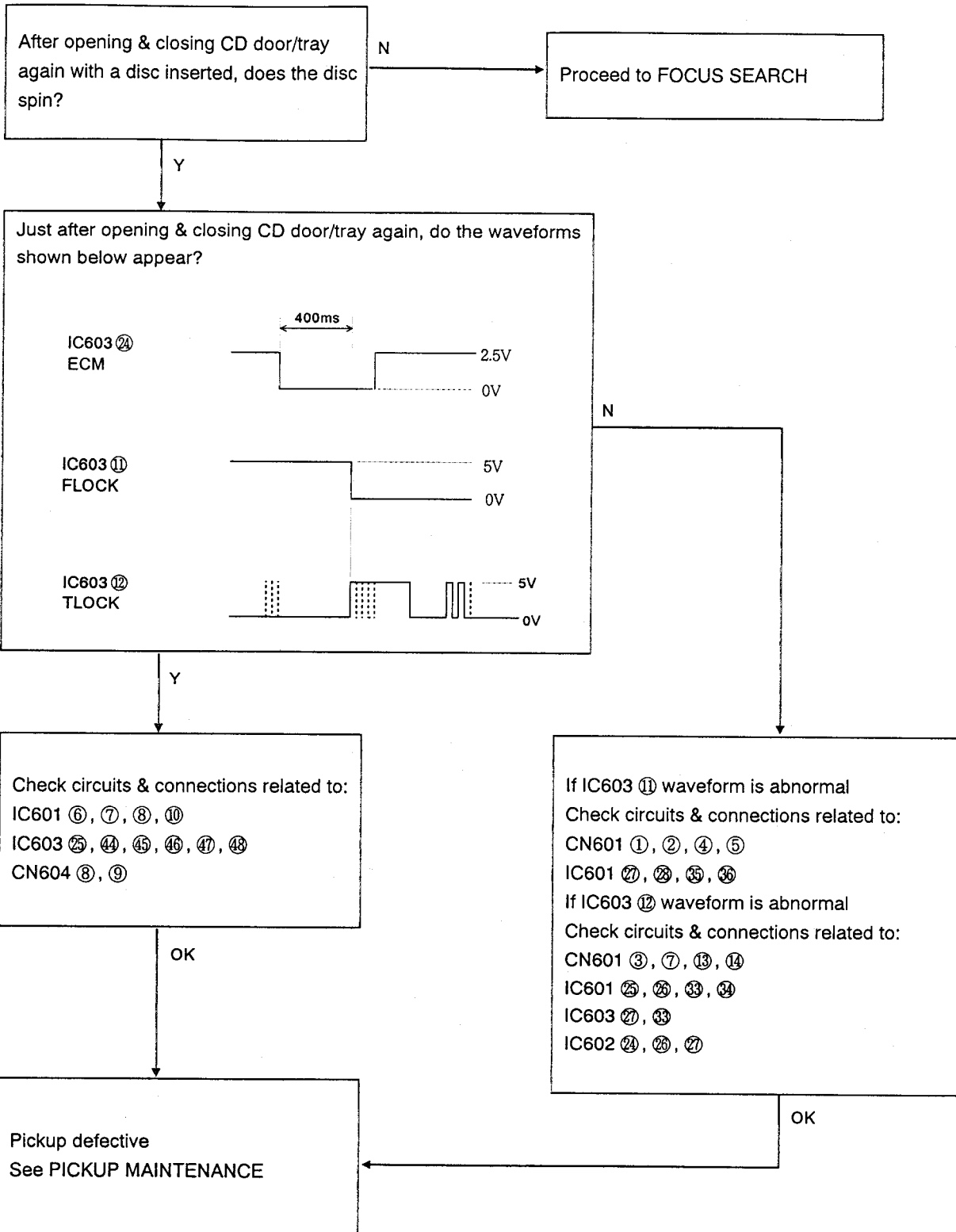
Defective points



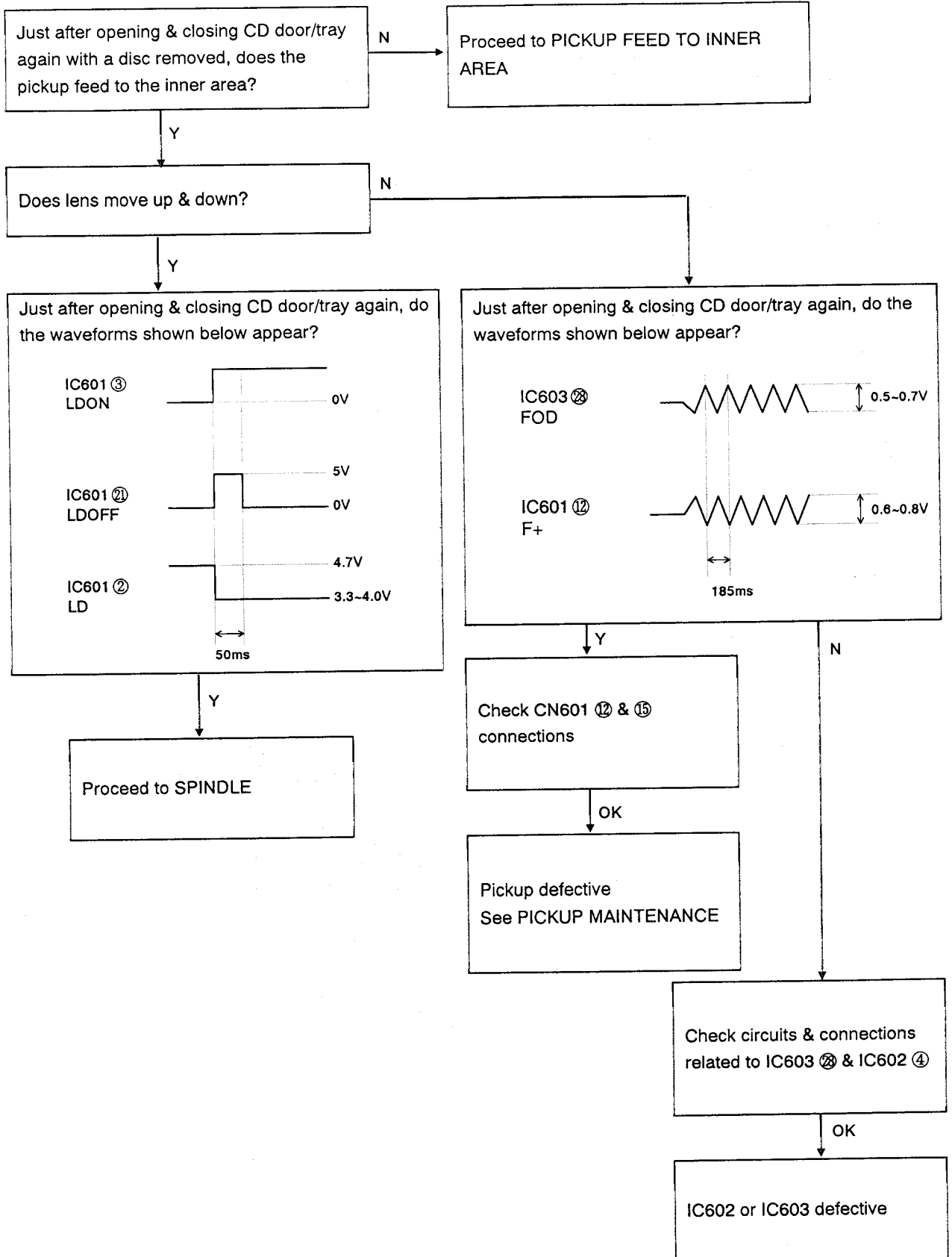
◆ General



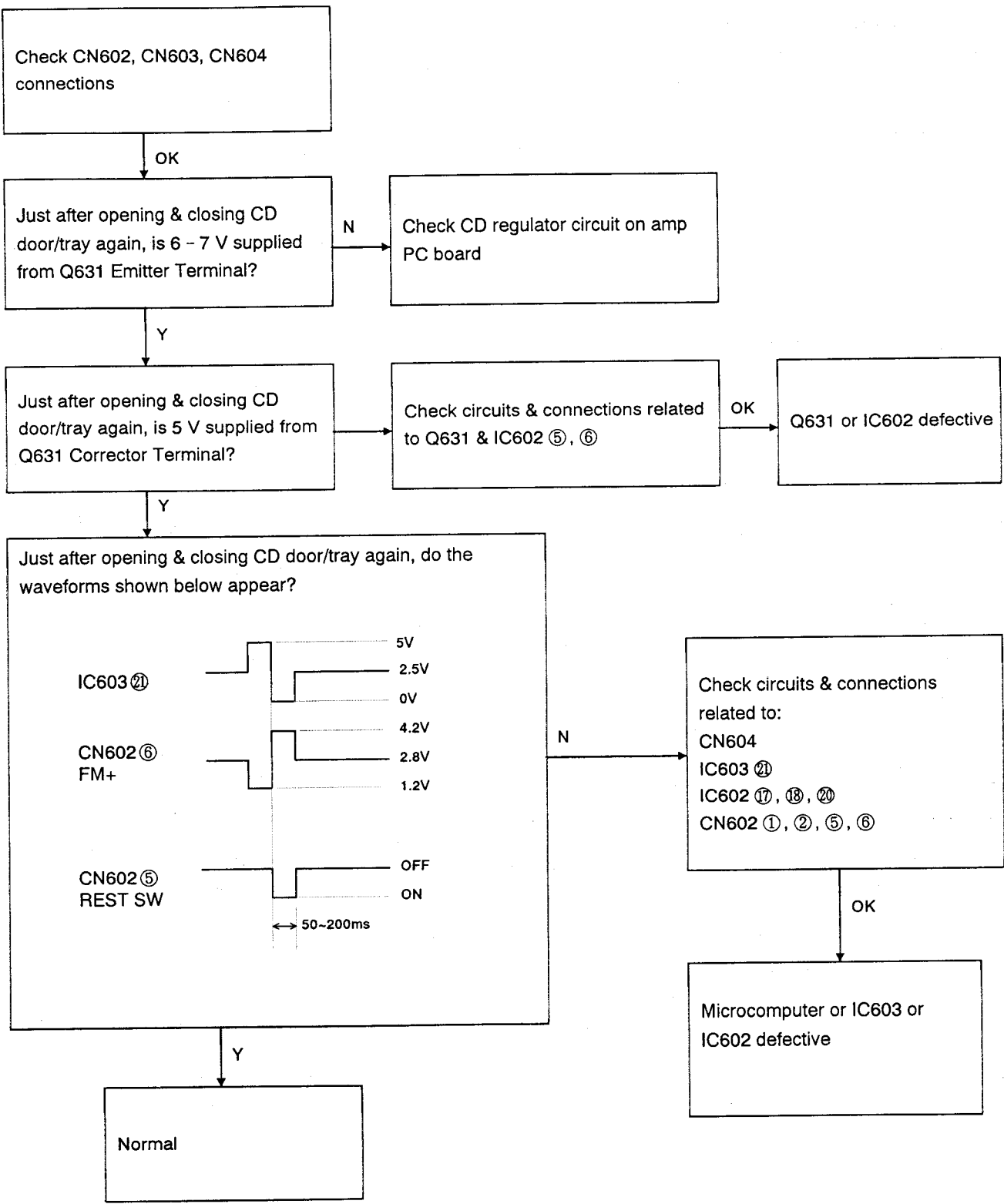
◆ Reading TOC



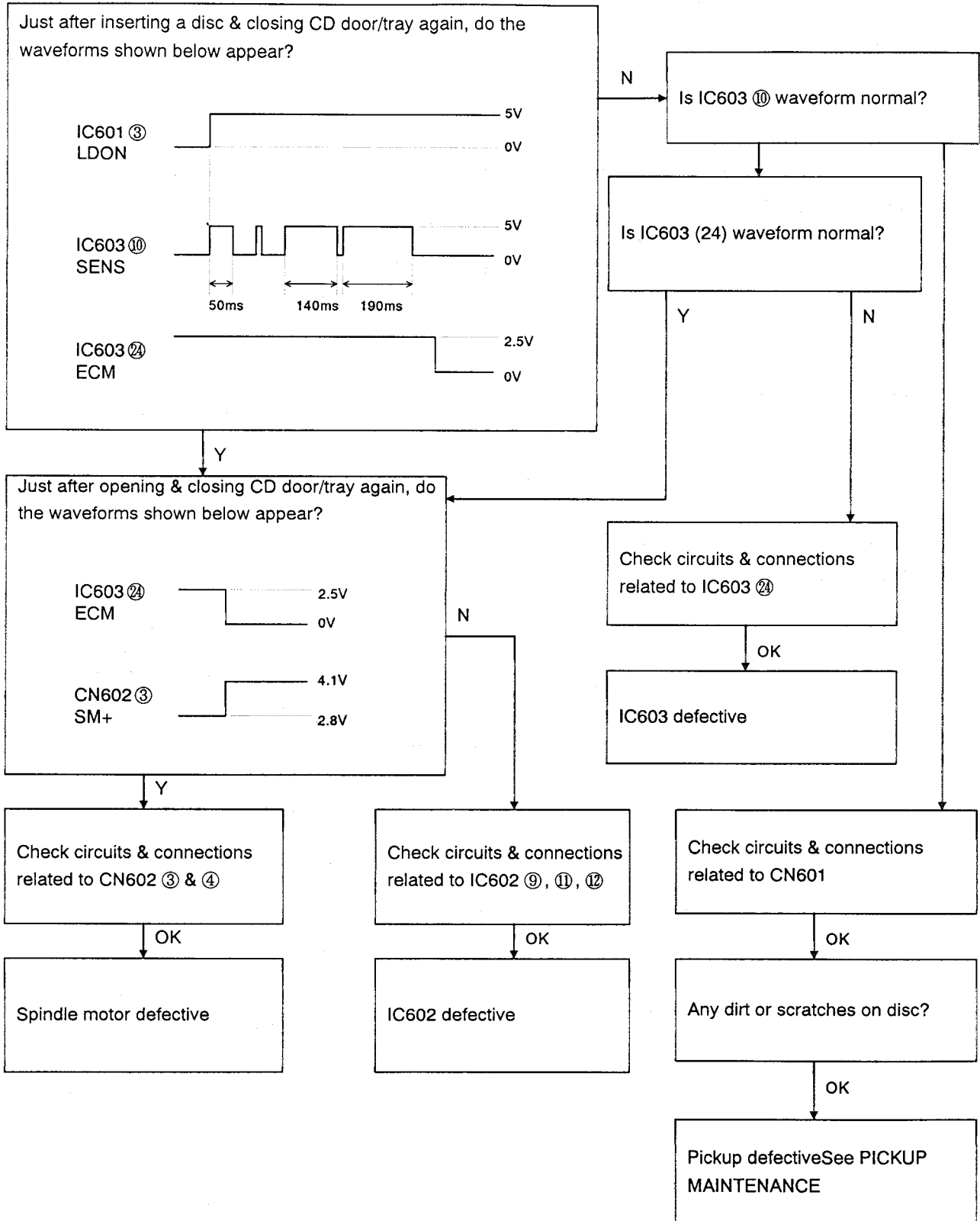
◆ Focus search



◆ Pickup feed to inner area



◆ Spindle



■ Description of Error Display/Indication

In addition to the normal functions, the service test modes have been incorporated in this model for confirmation and adjustment as described below:

1. Setting of the Service Test Mode

◆ Setting Method

After the power supply has been turned on, it is possible to set this model to the service test mode from the normal function conditions:

When the three **POWER**, **■/CLEAR** and **+10** buttons on the remote controller are pressed at the same time, this model will be set to the test mode. When this model has been set to the test mode, all of the LCDs will be turned on.

◆ Release of setting

When this model has been set to the test mode, press the three **POWER**, **■/CLEAR** and **+10** buttons at the same time, set this model to the backup mode or reset this model. Then, the test mode will be released.

2. Self-Diagnosis Function of CD Servo

When any error has occurred, either of the following error codes will be displayed depending on the contents of the error:

- 1) Err 1: Failure to turn on the reset switch (Internal peripheral feeding time-out)
- 2) Err 2: Failure to turn off the reset switch (Outer peripheral feeding time-out)
- 3) Err 3: Focusing failure
- 4) Err 4: TOC reading failure
- 5) Err 5: Failure to read the Q code continuously for 3 seconds
- 6) Err 6: Failure to locate the beginning of music when selecting a music

3. CD Running Mode

When the tower supply has been turned on, press the three **POWER**, **■/CLEAR** and **+10** buttons at the same time. Then, this model will be set to the CD running mode.

[Play the innermost and outermost peripherals of the respective CDs, and repeat this step for all of the ten discs].

Play TRACK 1 of DISC 1 for 30 sec. → Play the outermost peripheral for 30 sec. → OPEN → Stop for 3 sec. → CLOSE →
 Play TRACK 1 of DISC 2 for 30 sec. → Play the outermost peripheral for 30 sec. → OPEN → Stop for 3 sec. → CLOSE → ↓

↓
 Play TRACK 1 of DISC 10 for 30 sec. → Play the outermost peripheral for 30 sec. → OPEN → Stop for 3 sec. → CLOSE →
 Play TRACK 1 of DISC 1 for 30 sec. → Play the outermost peripheral for 30 sec. → OPEN → Stop for 3 sec. → CLOSE →

Then, repeat the above steps up to DISC10.

When the [UP] or [DOWN] button has been pressed, the process from playing TRACK 1 of DISC through to [CLOSE] of DISC 10 will be counted and displayed as one time. The process halfway the step is disregarded and displayed accordingly. The counted data will be displayed regardless of whether this model is in action or in shutdown.

[Counting example]: 000055...

This indicates that the above process has been repeated fifty-five times. The counted data will be stored as far as this model has been set to the service test mode. When this model has been restarted, however, this counting operation will be started newly after resetting. This model will be reset when the test mode has been turned off.

The counting operation will be stopped immediately when any error has occurred.

4. When the self-diagnosis function of the CD changer is in trouble, the following items will be displayed (under the service test mode):

1. In case the function is not restored even after executing the retry action, then the motor will immediately be stopped and the solenoid be turned off.
2. Prior to restarting after occurrence of any error, initialize the self-diagnosis function (this model).

LED display

1. The error disc No. will be displayed to indicate in which disc the error has occurred.
2. In case the disc case is being transferred, to which disc (a target disc) the disc case is being transferred will be indicated.

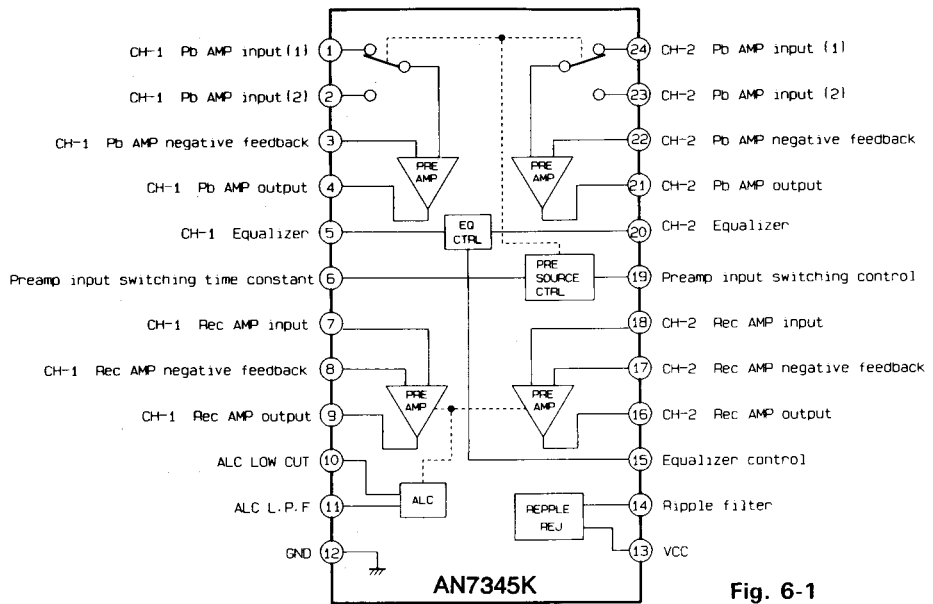
LCD display

- OPEn : The [OPEN] switch is not turned on.
- CLOSE : The [CLOSE] switch is not turned off. In this case, the [CLOSE] switch would have been turned off by other than the [OPEN] action.
- UP : The [UP] switch is not turned on.
- dOWn : The [DOWN] switch is not turned on.
- SOL : The [UP/DOWN] switch has been turned off when turning on the [SOLENOID] switch.
- OP -- CL: Sequence error of loading plate photo sensor. OPEN → LOAD (CLOSE)
- CL -- UL: LOAD (CLOSE) → UNLOAD
- UL -- CL: UNLOAD → LOAD
- UnLOAD : A disc is judged to have been left in the PU during unloading by means of 8 cm PS.
- dCL : The [DISVC CASE] limit switch is not turned on.
- dCL -- F : The [DISC CASE] limit switch is not turned off.
- CASE : Counting error of [DISC CASE] photo sensor

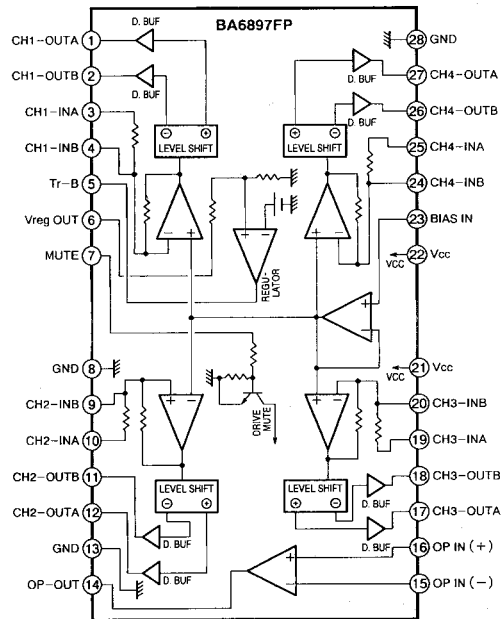
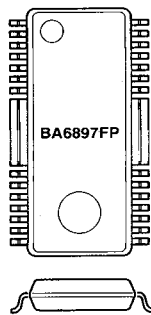
6 Block Diagram

Integrated circuit

◆ IC701 (AN7345K) PB/REC EQ. AMP.



◆ IC602 (BA6897FP) BTL DRIVE



◆ IC501 (BH3852S) VOLUME/TONE

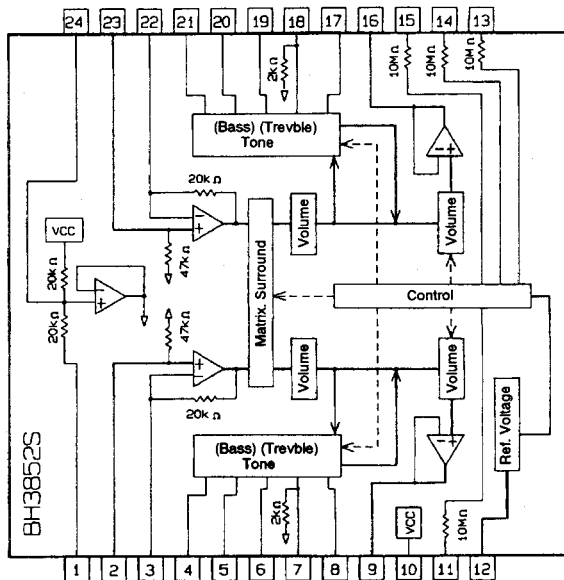
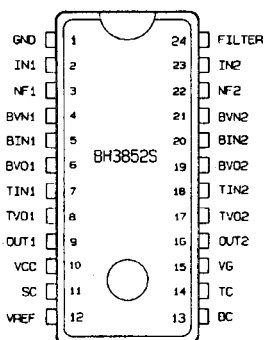


Fig. 6-3

◆ IC702 (BA3126N) R/P SWITCH

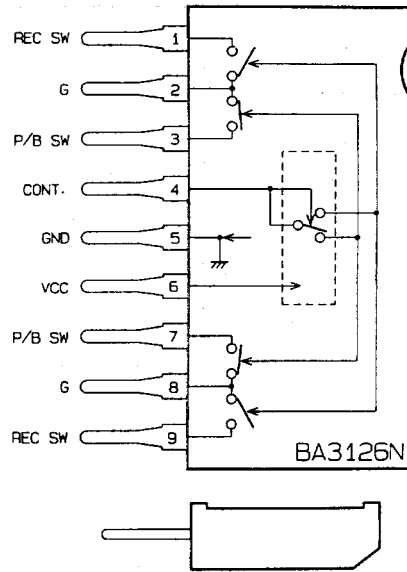


Fig. 6-4

◆ IC902 (BU4094BC) PORT EXPANDER

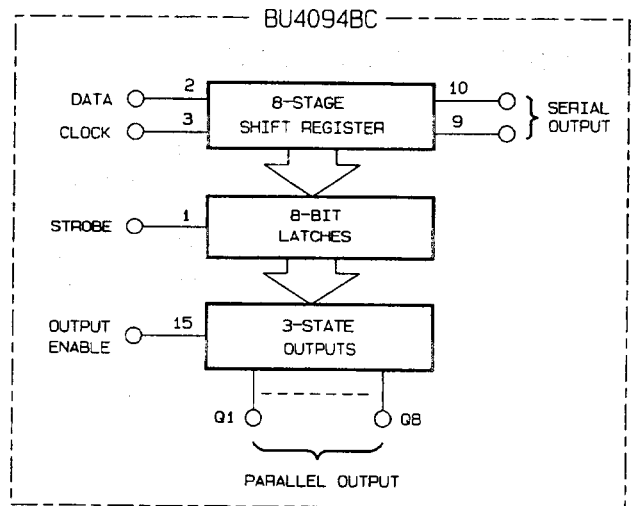
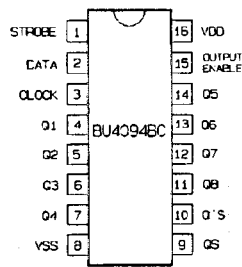


Fig. 6-5

◆ IC601 (AN8806SB) RF AMP.

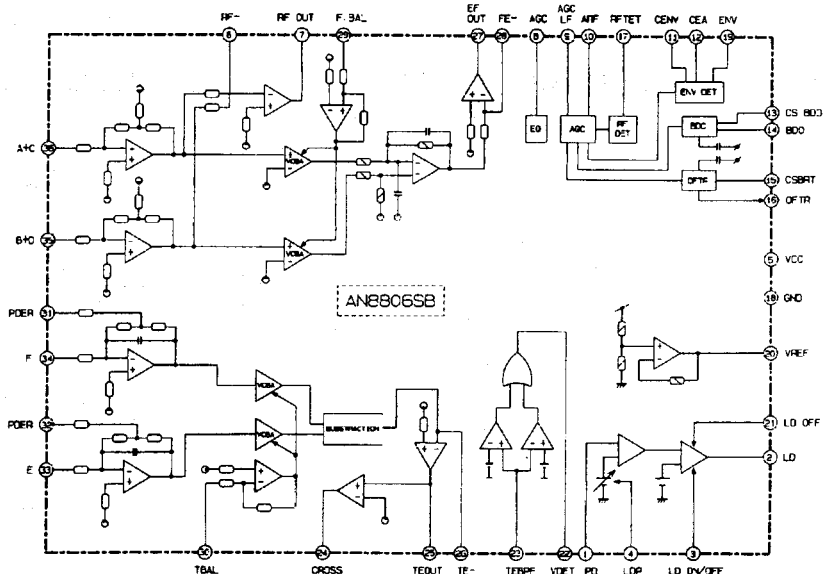


Fig. 6-6

◆ IC603 (MN35510)
DIGITAL SERVO

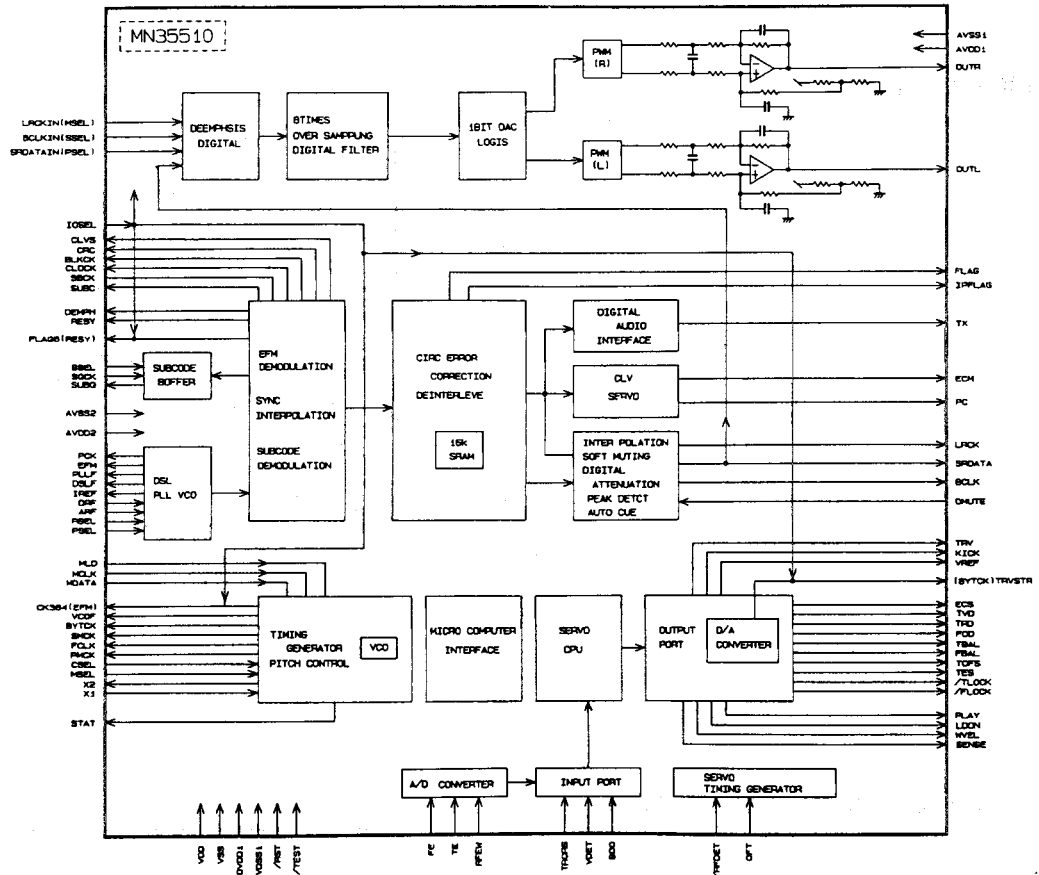


Fig. 6-7

◆ IC801 (NJM4580L) BB AMP.

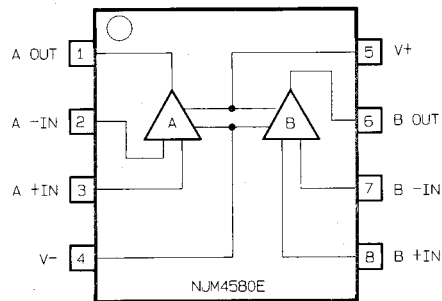


Fig. 6-8

◆ IC2 (TA2008N)

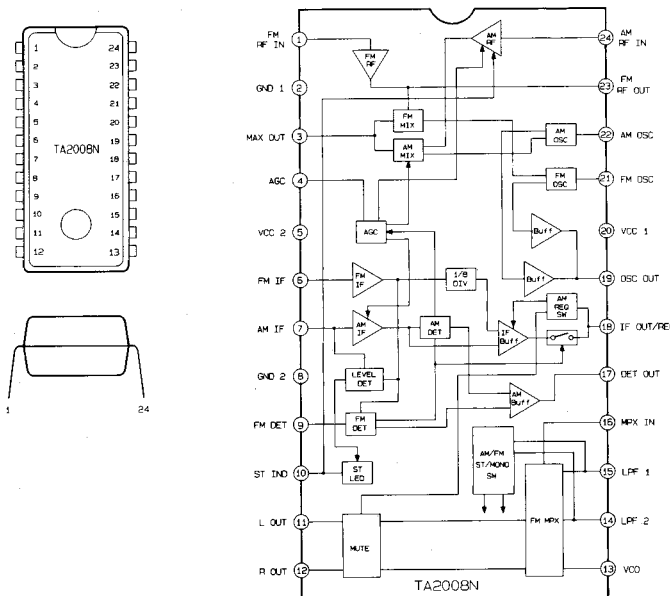


Fig. 6-9

◆ IC3 (LC72136)

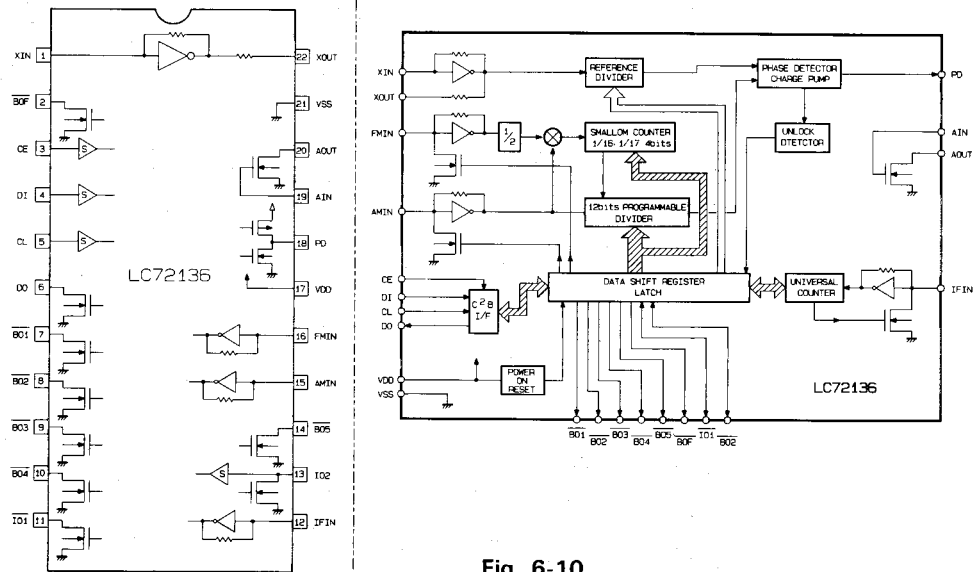


Fig. 6-10

◆ IC601 (LA4705NA) POWER AMP.

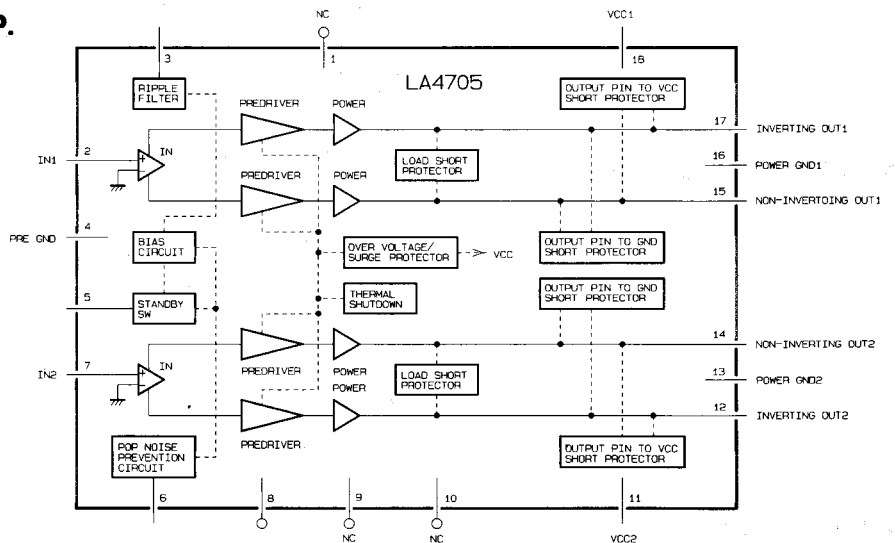


Fig. 6-11

◆ IC951/952 (TA8409S)

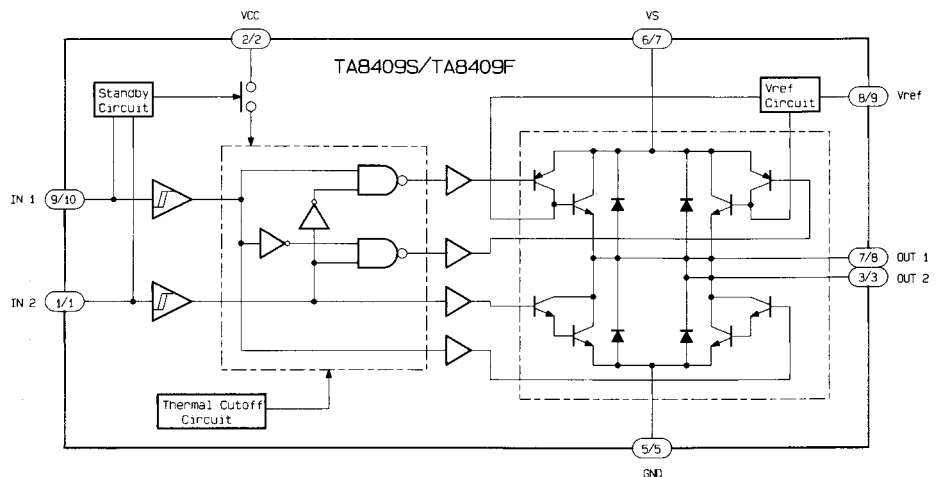


Fig. 6-12

IC901 UPD78064GF system microprocessor

| No. | NAME | I/O | NAME | I/O | Function |
|-----|----------|-----|----------|-----|---|
| 51 | COM 0 | 0 | COM 0 | 0 | LCD remote controller 0 |
| 52 | COM 1 | 0 | COM 1 | 0 | LCD remote controller 1 |
| 53 | COM 2 | 0 | COM 2 | 0 | LCD remote controller 2 |
| 54 | COM 3 | 0 | COM 3 | 0 | LCD remote controller 3 |
| 55 | BIAS | - | BIAS | - | LCD bias voltage |
| 56 | VLC 0 | - | VLC 0 | - | LCD bias voltage BIAS > VLC 0 > VLC 1 > VLC 2 |
| 57 | VLC 1 | - | VLC 1 | - | LCD bias voltage |
| 58 | VLC 2 | - | VLC 2 | - | LCD bias voltage |
| 59 | Vss | - | Vss | - | GND |
| 60 | S 0 | 0 | S 0 | 0 | LCD segment 0 |
| 61 | S 1 | 0 | S 1 | 0 | LCD segment 1 |
| 62 | S 2 | 0 | S 2 | 0 | LCD segment 2 |
| 63 | S 3 | 0 | S 3 | 0 | LCD segment 3 |
| 64 | S 4 | 0 | S 4 | 0 | LCD segment 4 |
| 65 | S 5 | 0 | S 5 | 0 | LCD segment 5 |
| 66 | S 6 | 0 | S 6 | 0 | LCD segment 6 |
| 67 | S 7 | 0 | S 7 | 0 | LCD segment 7 |
| 68 | S 8 | 0 | S 8 | 0 | LCD segment 8 |
| 69 | S 9 | 0 | S 9 | 0 | LCD segment 9 |
| 70 | S 10 | 0 | S 10 | 0 | LCD segment 10 |
| 71 | S 11 | 0 | S 11 | 0 | LCD segment 11 |
| 72 | S 12 | 0 | S 12 | 0 | LCD segment 12 |
| 73 | S 13 | 0 | S 13 | 0 | LCD segment 13 |
| 74 | S 14 | 0 | S 14 | 0 | LCD segment 14 |
| 75 | S 15 | 0 | S 15 | 0 | LCD segment 15 |
| 76 | S 16 | 0 | S 16 | 0 | LCD segment 16 |
| 77 | S 17 | 0 | S 17 | 0 | LCD segment 17 |
| 78 | S 18 | 0 | S 18 | 0 | LCD segment 18 |
| 79 | S 19 | 0 | S 19 | 0 | LCD segment 19 |
| 80 | S 20 | 0 | S 20 | 0 | LCD segment 20 |
| 81 | S 21 | 0 | S 21 | 0 | LCD segment 21 |
| 82 | S 22 | 0 | S 22 | 0 | LCD segment 22 |
| 83 | NC | 0 | NC | 0 | NC |
| 84 | STAT | 0 | STAT | 0 | |
| 85 | XRESET | 0 | XRESET | 0 | |
| 86 | MCLK | 0 | MCLK | 0 | |
| 87 | MDATA | 0 | MDATA | 0 | |
| 88 | MLD | 0 | MLD | 0 | |
| 89 | SCD | 1 | SCD | 1 | Detection of CD abnormal voltage |
| 90 | LMF | 0 | LMF | 0 | 1 } FORWARD 0 } REVERSE |
| 91 | LMR | 0 | LMR | 0 | |
| 92 | UDM UP | 0 | UDM UP | 0 | PU UNIT 1 } UP 0 } DW CASE 1 } DW 0 } UP |
| 93 | UDM DOWN | 0 | UDM DOWN | 0 | 0 } 1 } DW CASE 1 } DW 0 } UP |
| 94 | LMV | 0 | LMV | 0 | Loading motor speed |
| 95 | SOL | 0 | SOL | 0 | Solenoid ON/OFF (H=ON) |
| 96 | PIN | 1 | PIN | 1 | [POWER] key |
| 97 | R. BIAS | 0 | R. BIAS | 0 | REC bias ON/OFF |
| 98 | AC/DC | 1 | AC/DC | 1 | Decision of AC/DC power supply |
| 99 | SAFETY 2 | 1 | SAFETY 2 | 1 | Abnormal voltage detection |
| 100 | LATCH | 0 | LATCH | 0 | Expander latch |

| No. | NAME | I/O | NAME | I/O | Function |
|-----|----------|-----|--|-----|----------|
| 1 | SDATA | I/O | Serial data (TUNER PLL/EXPANDER) | | |
| 2 | SCK | 0 | Serial lock (TUNER PLL/EXPANDER) | | |
| 3 | SUBQ | 1 | CD Q Code data | | |
| 4 | - | 0 | Not usable | | |
| 5 | SOCK | 0 | Synchronizing clock of CD Q code data | | |
| 6 | IC | - | Connect it to Vss. | | |
| 7 | X 2 | - | Main system clock, 4.19MHz | | |
| 8 | X 1 | 1 | Same as above. | | |
| 9 | Vdd | - | Power supply | | |
| 10 | XT 1 | 1 | Subsystem clock, 32.768kHz | | |
| 11 | XT 2 | - | Same as above. | | |
| 12 | RESET | 1 | Reset | | |
| 13 | DC PS | 1 | Disc case P. sensor | | |
| 14 | LP PS | 1 | Loading plate P. sensor | | |
| 15 | 8cm PS | 1 | 8cm P. sensor | | |
| 16 | REM | 1 | Remote controller | | |
| 17 | BEAT | 0 | Main clock selector | | |
| 18 | BJP | 1 | Decision of backup power supply (H=Backup) | | |
| 19 | -BCTL | 0 | Switched 5V control (H=5V breaking) | | |
| 20 | REC SW | 1 | [REC] switch | | |
| 21 | F. CD | 0 | Function CD ON/OFF | | |
| 22 | POUT | 0 | Power ON/OFF | | |
| 23 | SMUTE | 0 | System muting | | |
| 24 | VOL | 0 | Volume control (PWM) | | |
| 25 | BASS | 0 | Bass control (PWM) | | |
| 26 | TRE | 0 | Treble control (PWM) | | |
| 27 | AVss | - | AD converter GND | | |
| 28 | KEY 0 | 1 | Body key input 0 (including version selection) | | |
| 29 | KEY 1 | 1 | Body key input 1 (including version selection) | | |
| 30 | KEY 2 | 1 | Body key input 2 (including version selection) | | |
| 31 | REST | 1 | CD rest/changer disc case limit switch | | |
| 32 | LOAD | 1 | OPEN/CLOSE/UNLOAD limit switch | | |
| 33 | UP/DOWN | 1 | Drive unit UP/DOWN/CHECK (CHECK) switch | | |
| 34 | TAPE | 1 | A PLAY/B PLAY switch | | |
| 35 | SAFETY 1 | 1 | Abnormal voltage detection | | |
| 36 | AVdd | - | Same potential of AD converter power supply and Vdd | | |
| 37 | AVref | - | Reference voltage of AD converter. It is broken under [SLOW] mode. | | |
| 38 | MPX | 1 | FM stereo detection (L=Stereo) | | |
| 39 | PERIOD | 0 | TUNER PLL strobe signal | | |
| 40 | Vss | - | GND | | |
| 41 | LED 1 | 0 | Disc LED 1 (H=ON) | | |
| 42 | LED 2 | 0 | Disc LED 2 (H=ON) | | |
| 43 | LED 3 | 0 | Disc LED 3 (H=ON) | | |
| 44 | LED 4 | 0 | Disc LED 4 (H=ON) | | |
| 45 | LED 5 | 0 | Disc LED 5 (H=ON) | | |
| 46 | LED 6 | 0 | Disc LED 6 (H=ON) | | |
| 47 | LED 7 | 0 | Disc LED 7 (H=ON) | | |
| 48 | LED 8 | 0 | Disc LED 8 (H=ON) | | |
| 49 | LED 9 | 0 | Disc LED 9 (H=ON) | | |
| 50 | LED 10 | 0 | Disc LED 10 (H=ON) | | |

■ CD player diagram

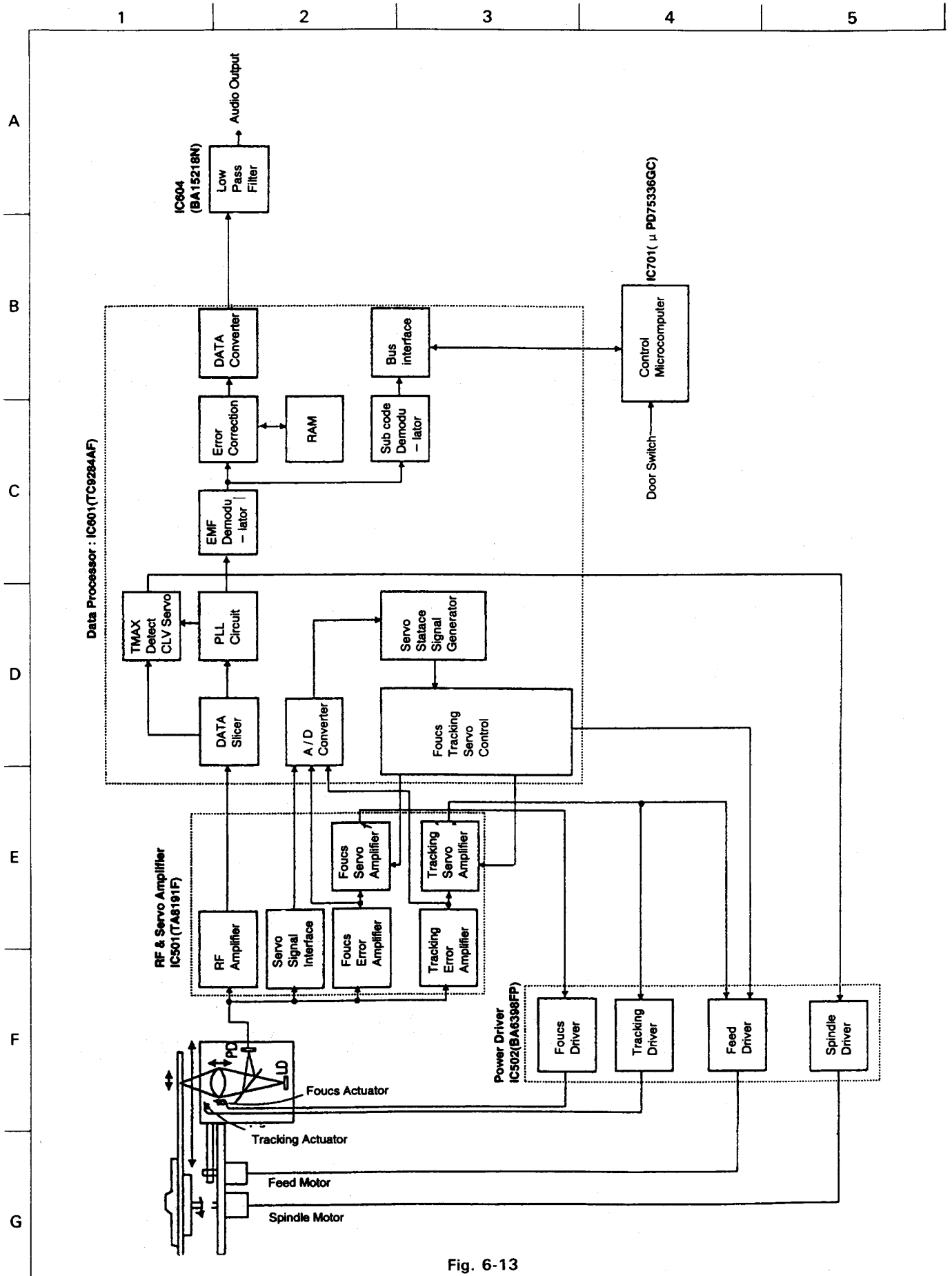


Fig. 6-13

■ Signal circuit diagram

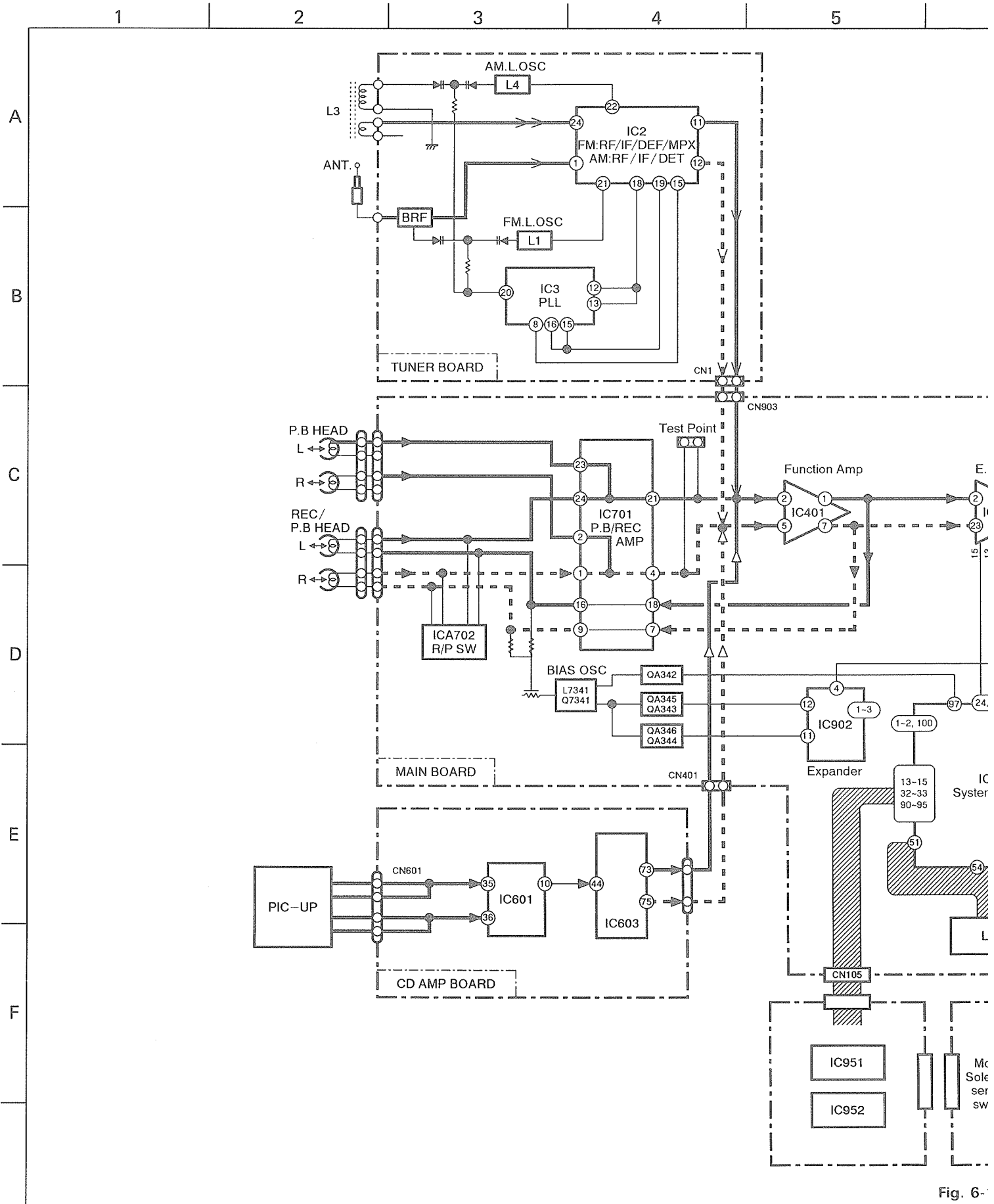


Fig. 6-

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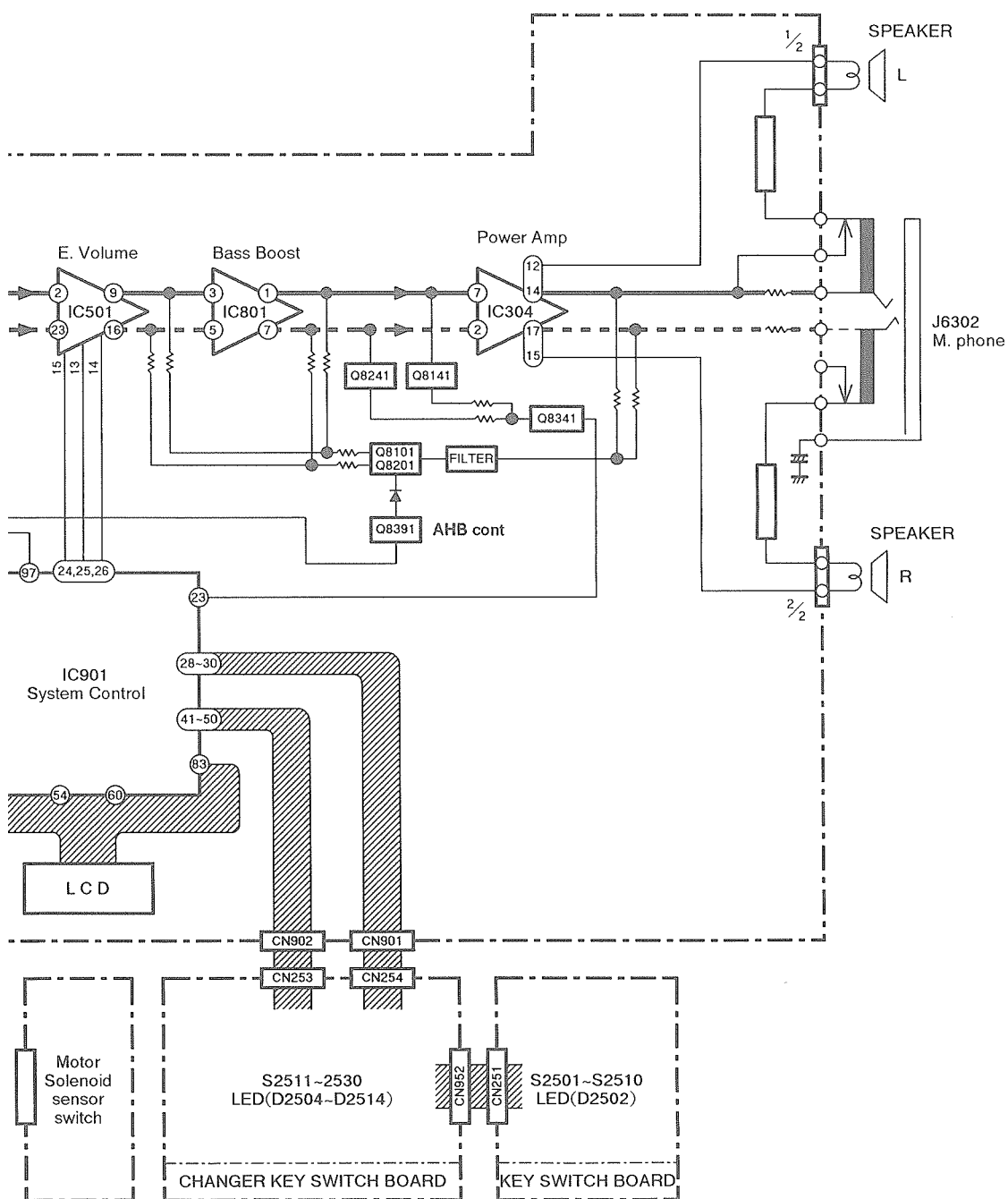


Fig. 6-14

■ PC - XC70 system diagram

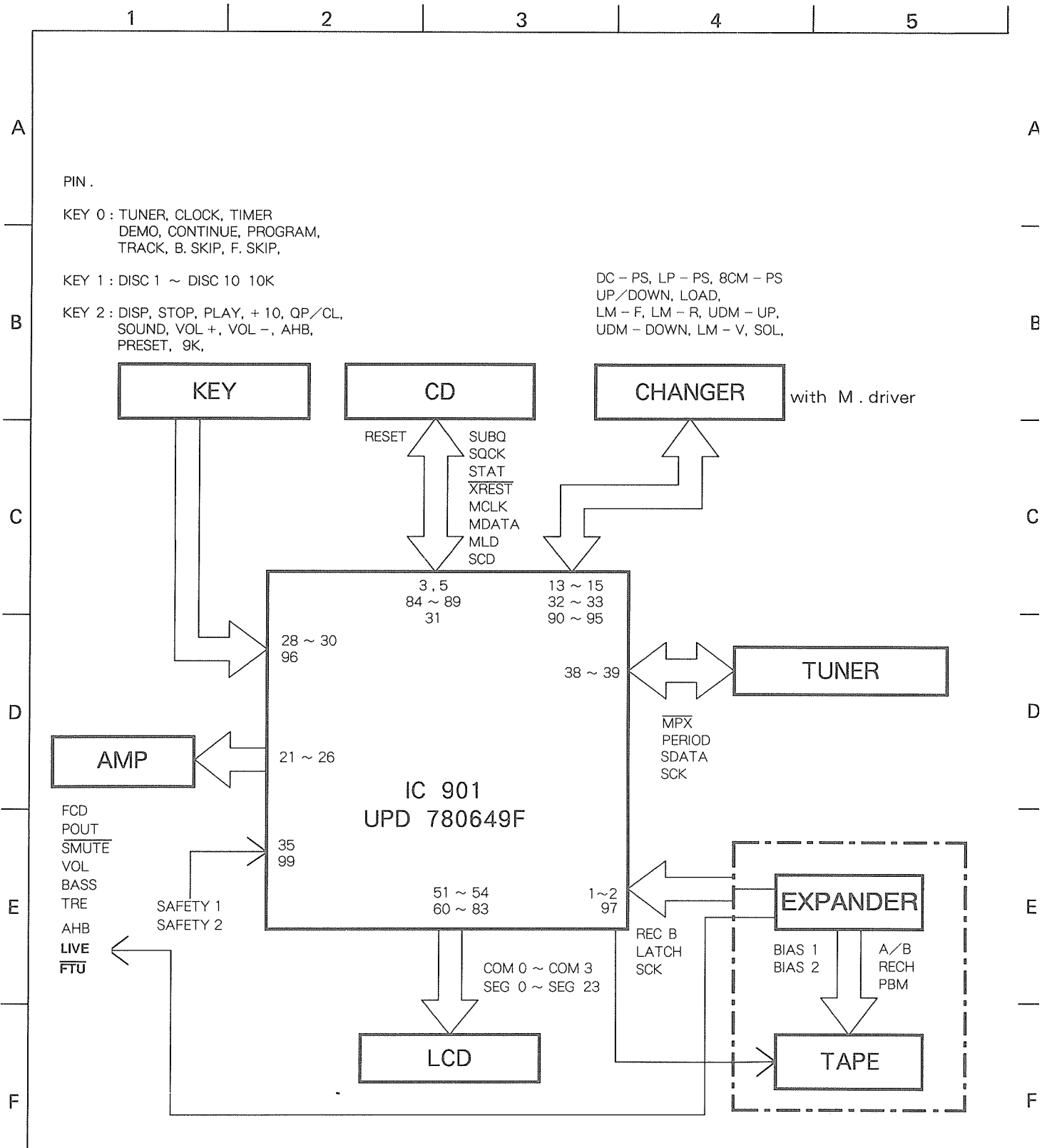


Fig. 6-15

7 Standard Circuit Diagram ■ Changer driver circuit

Note : VDH7073006MW

A
B
C
D
E
F

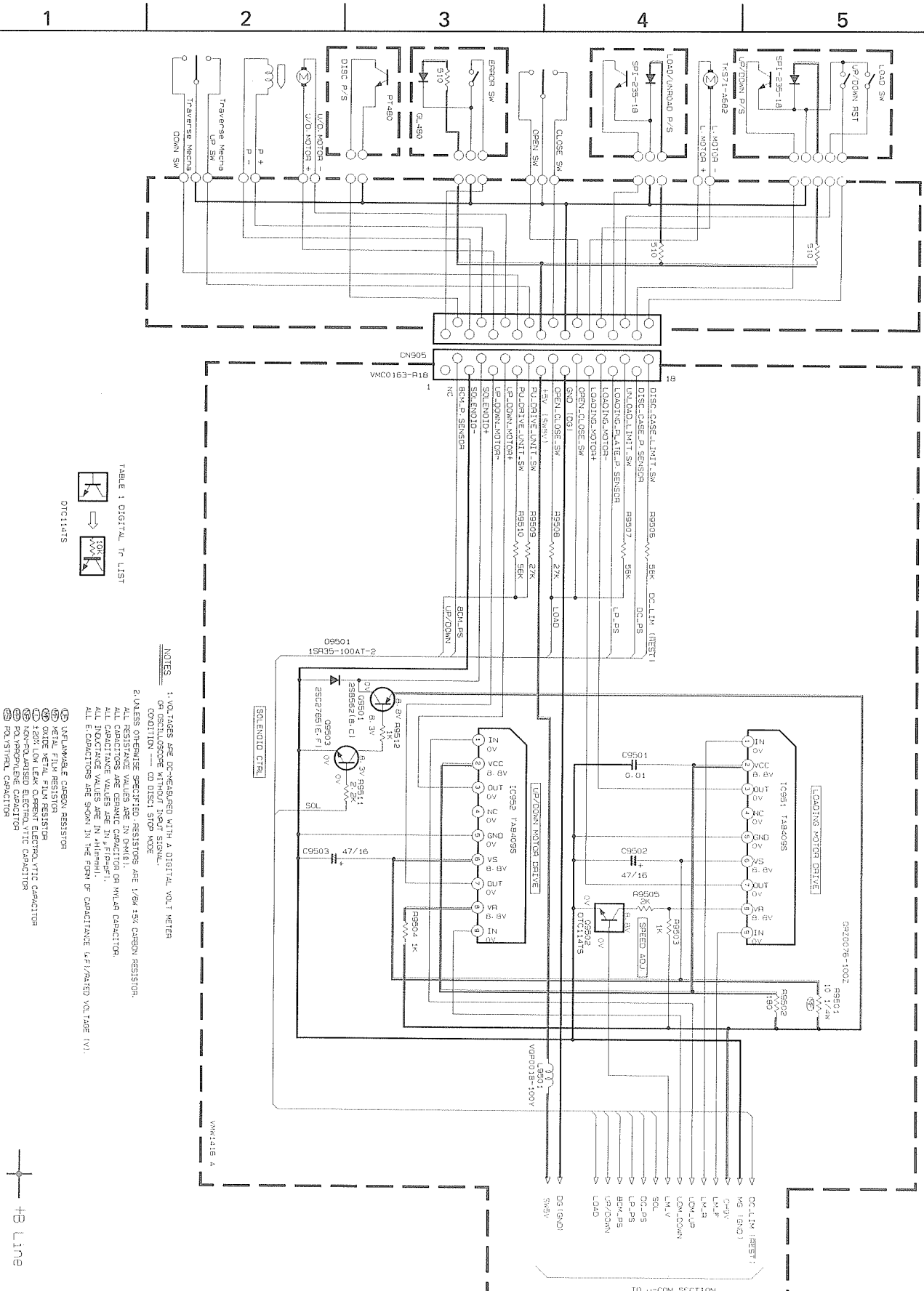


TABLE 1: DIGITAL TP LIST

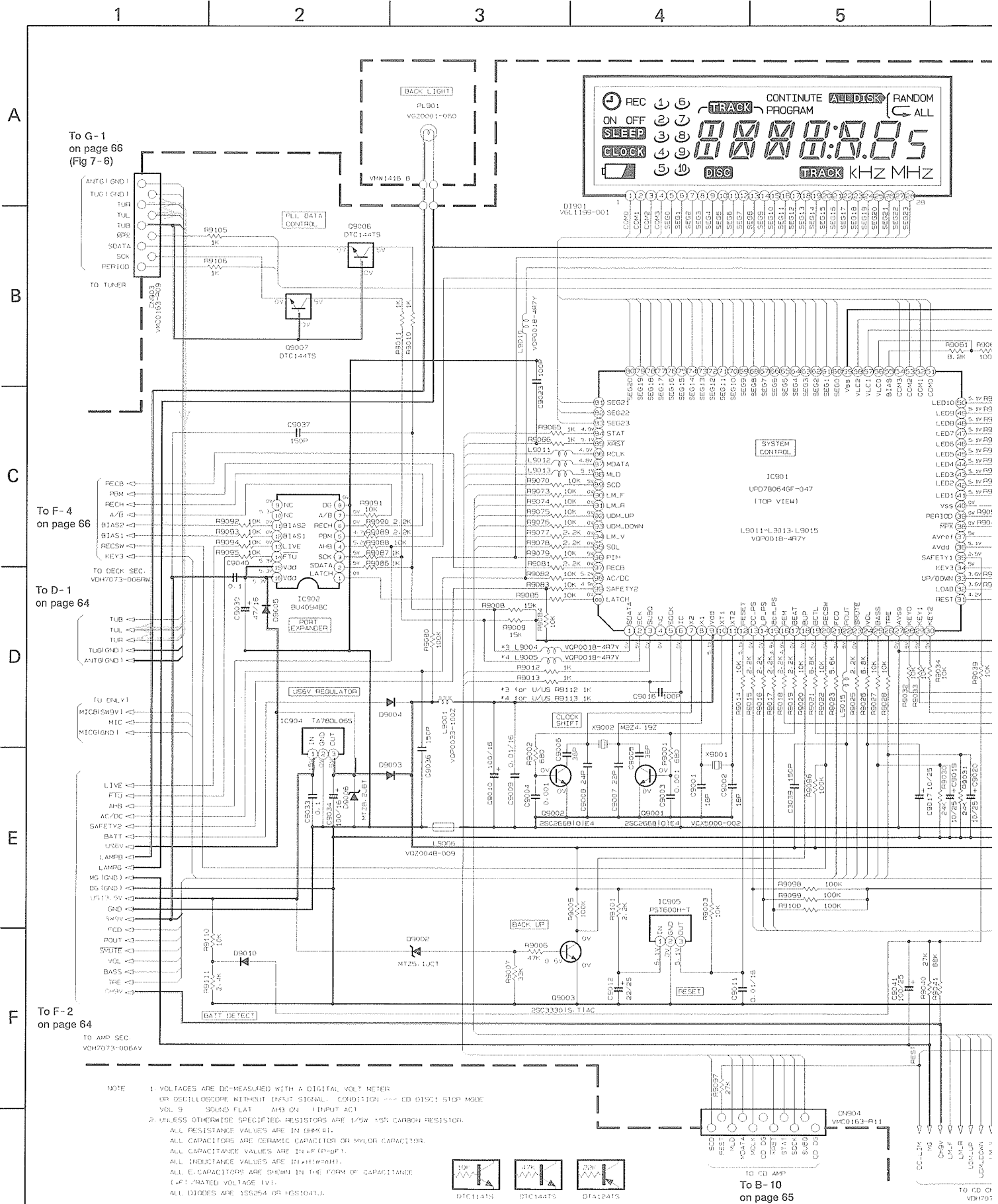
| | |
|--|----------|
| | DTC11415 |
| | DTC11415 |
| | DTC11415 |

- NOTES:
- 1: VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- ON DIRECT STOP MODE.
 - 2: UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W ±5% CARBON RESISTOR. ALL CAPACITORS ARE IN OHMS UNLESS OTHERWISE SPECIFIED. ALL CAPACITANCE VALUES ARE IN MICROFARAD UNLESS OTHERWISE SPECIFIED. ALL INDUCTANCE VALUES ARE IN MILLIHENRY. ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF/VALED) VOLTAGE (V).
- ① UNLEAKAGE CARBON RESISTOR
 - ② METAL FILM RESISTOR
 - ③ OXIDE METAL FILM RESISTOR
 - ④ POLYESTER ELECTROLYTIC CAPACITOR
 - ⑤ NON-POLARIZED ELECTROLYTIC CAPACITOR
 - ⑥ POLYPROPYLENE CAPACITOR
 - ⑦ POLYESTER CAPACITOR

Fig. 7-1

To G-6 on page 63

Indicator/system microprocessor circuit



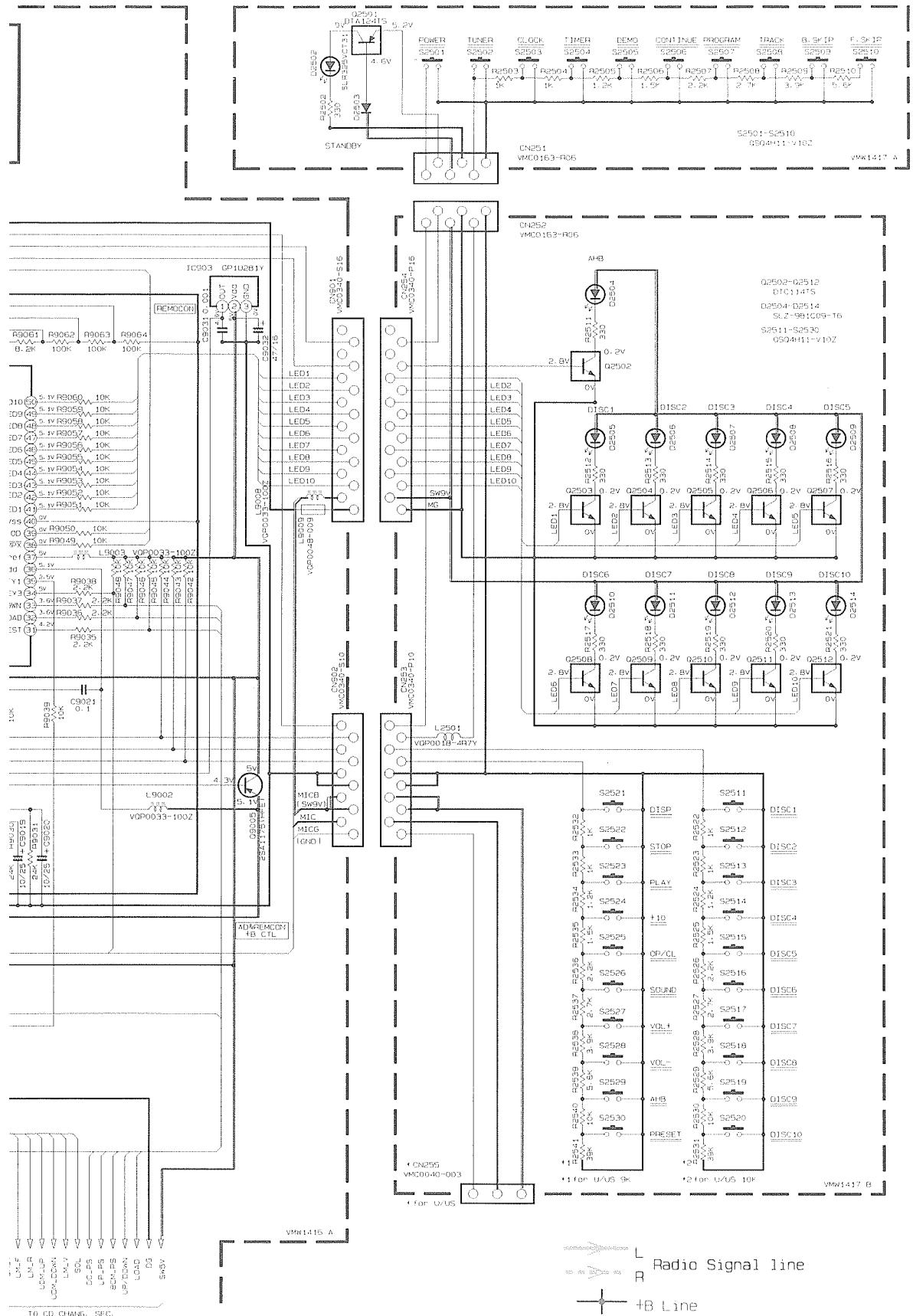
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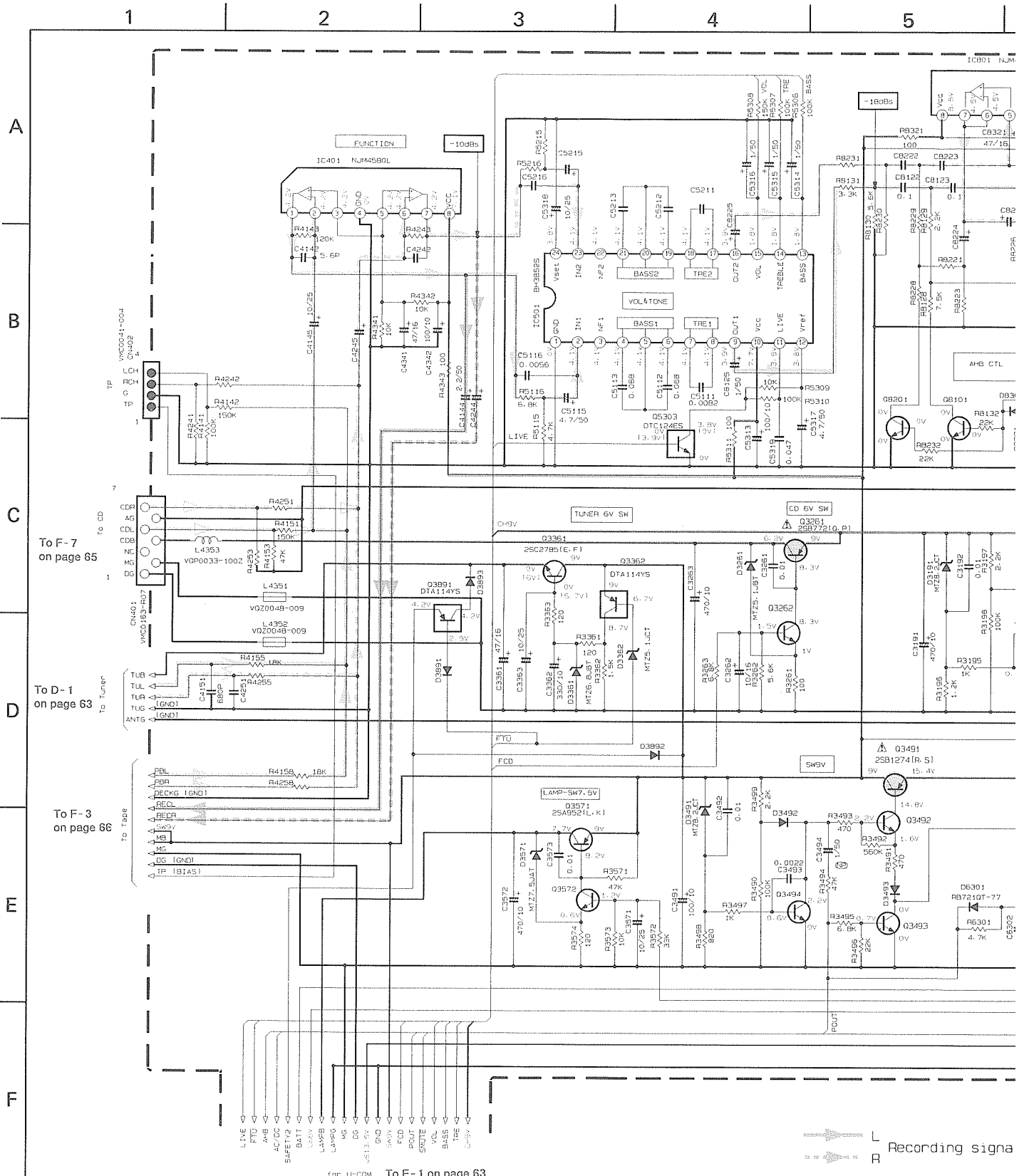
10



To G-4
on page 62

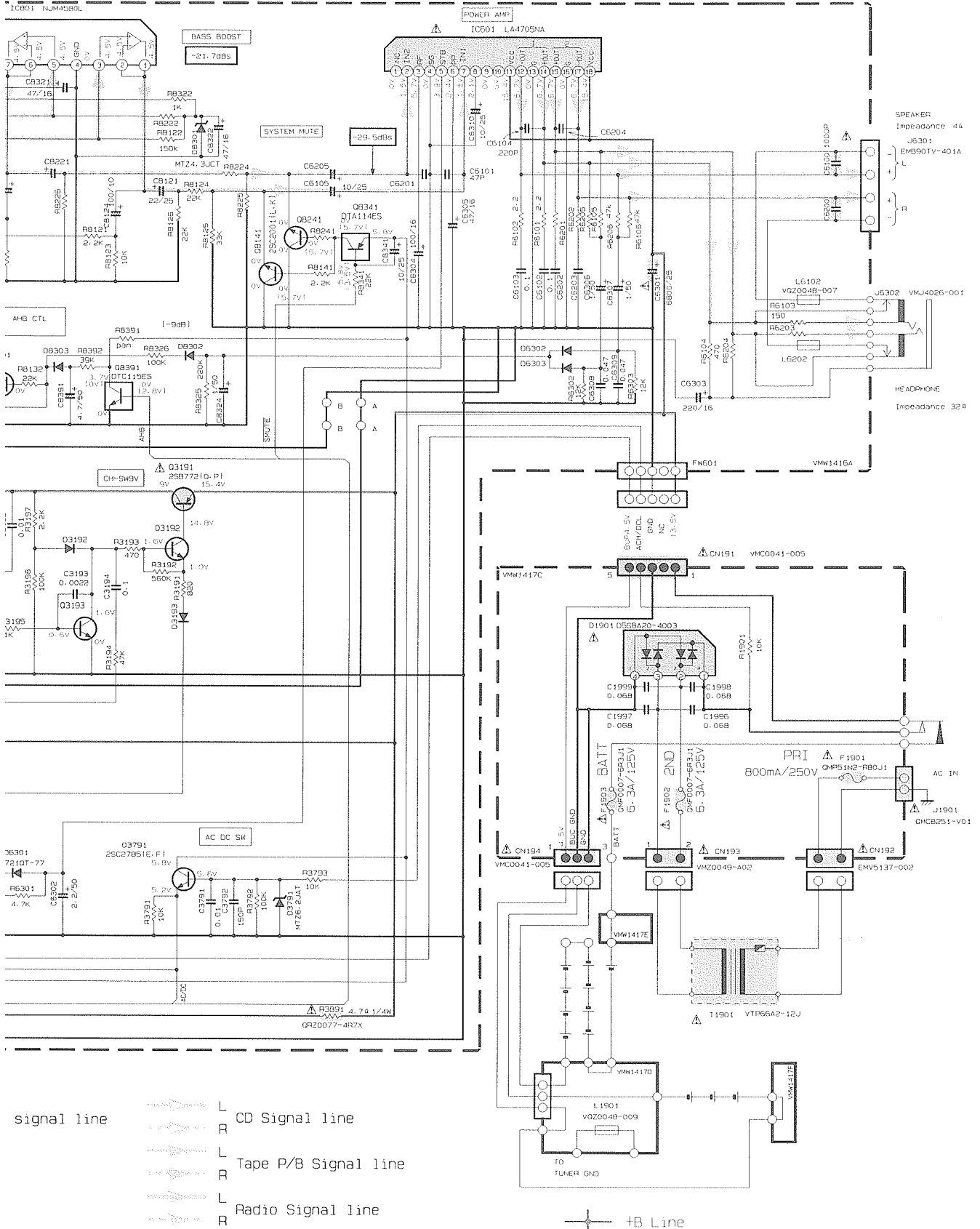
Fig. 7-2

Power amplifier circuit



- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION --- CD PLAY MODE AC CONDITION (ON 1)
 - UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/4W 5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHMS. ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN μF (pF).
 - ALL INDUCTANCE VALUES ARE IN mH (mH).
 - ALL IC CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF/RATED VOLTAGE V).
 - ALL DIODES ARE 1S9547 OR 1S9544.
 - ALL TRANSISTORS ARE 2SC2785(E-F) OR 2SC3330(1S-1)

Fig. 7-3



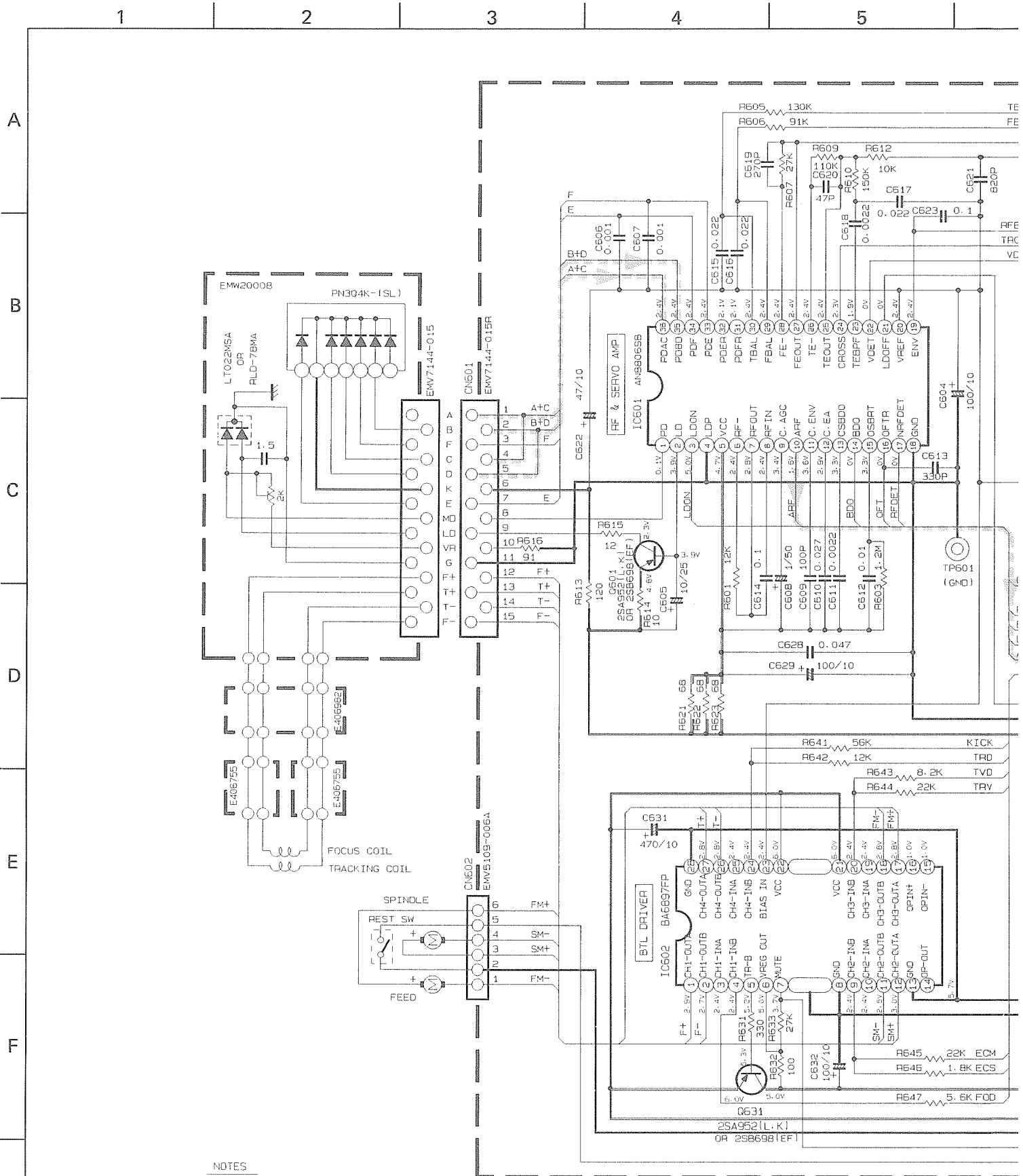
signal line

- L CD Signal line
- R CD Signal line
- L Tape P/B Signal line
- R Tape P/B Signal line
- L Radio Signal line
- R Radio Signal line

+B Line

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

CD amplifier circuit



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(S). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN pF(pF). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

Note
VDH103100CW
(MATSITA-IC)

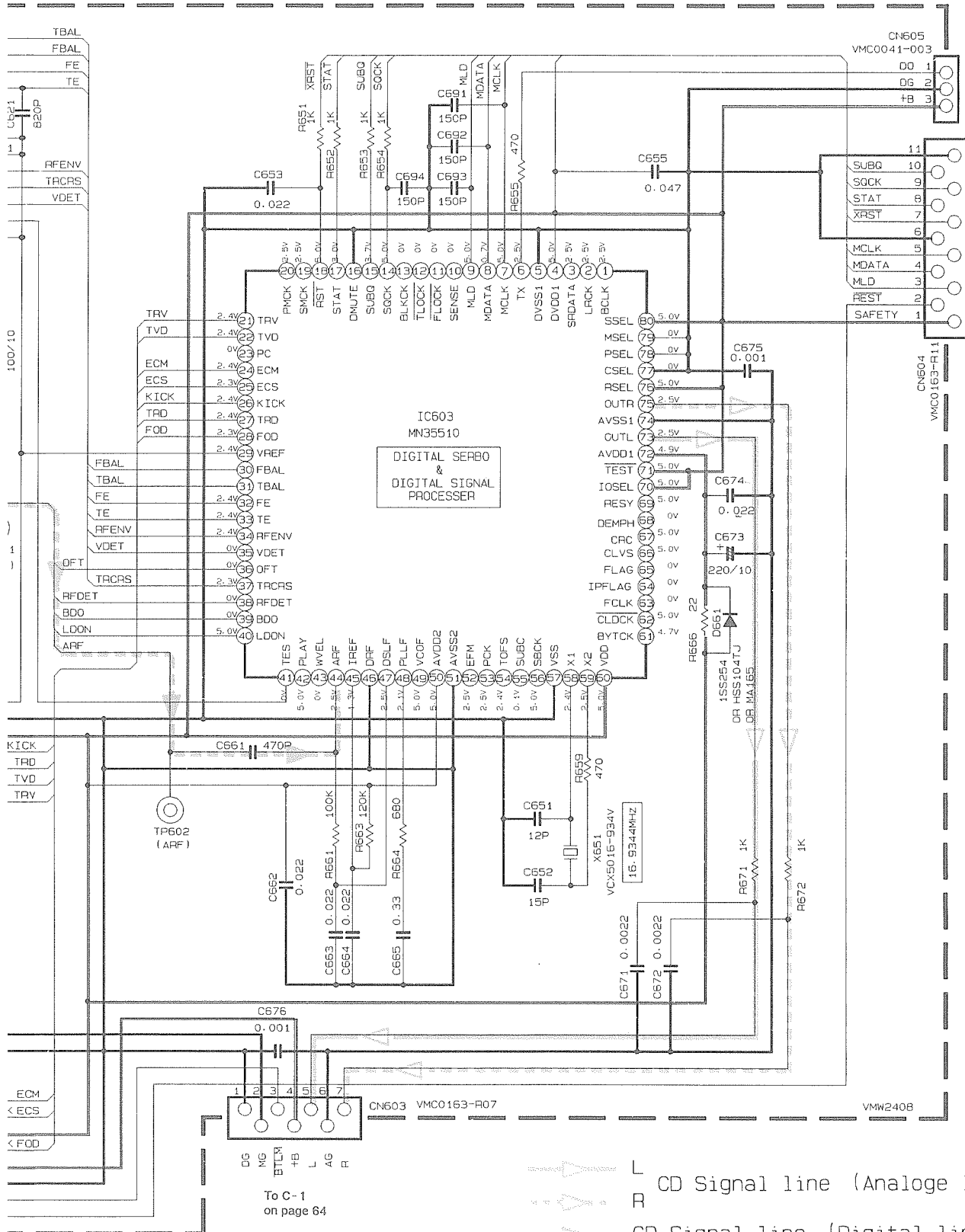
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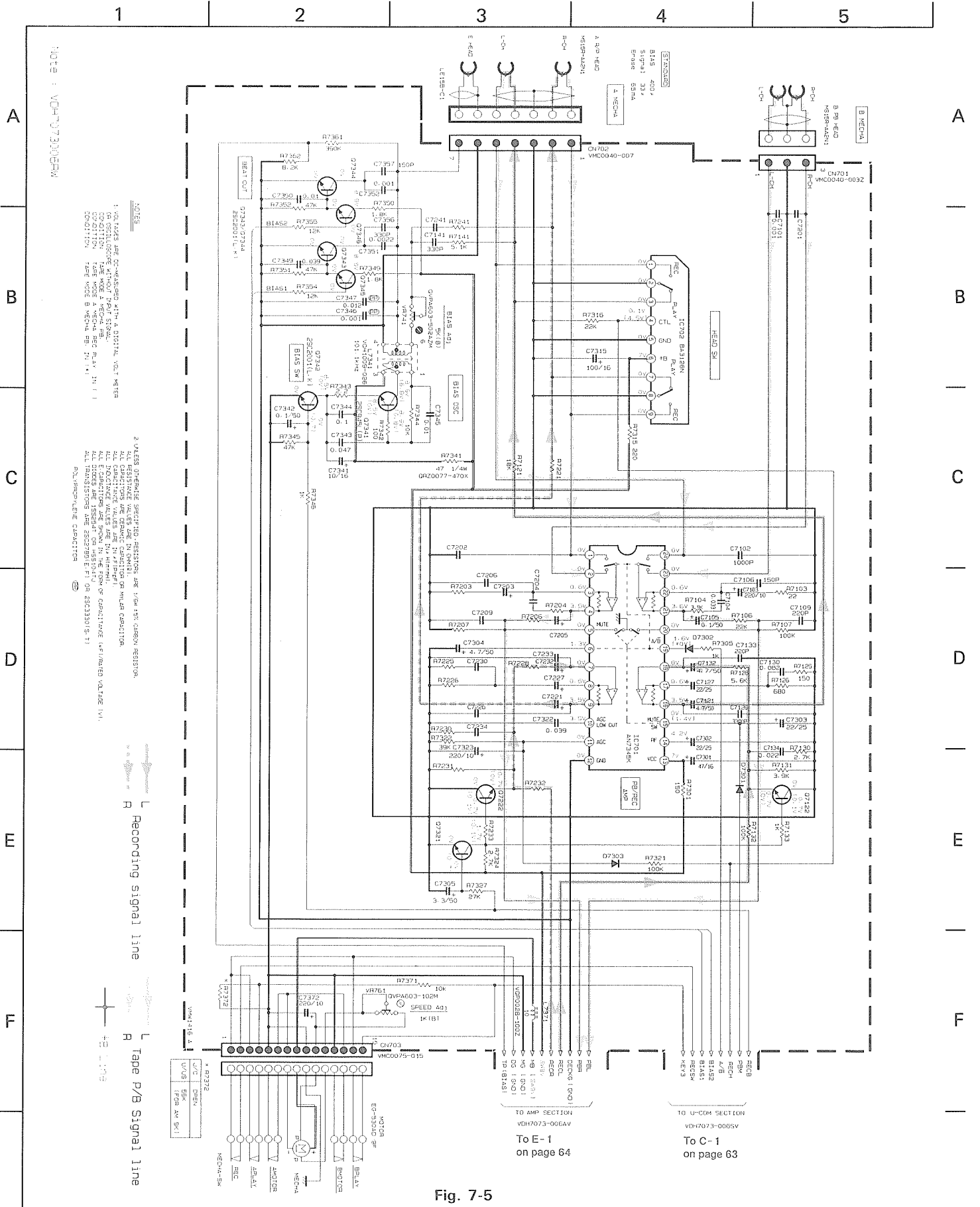


To G-5 on page 63

To C-1 on page 64

- L CD Signal line (Analog line)
- R CD Signal line (Digital line)
- +B Line

Cassette amplifier circuit



NOTE: VDH7073006RM

NOTE

1. VOLTAGES ARE CO-MEASURED WITH A DIGITAL VOLTMETER ON OCCASIONS THROUGH TYPICAL SIGNAL CONDITION. TAPE MODE A-MECHA REC PLAY IN I I CONDITION. TAPE MODE B-MECHA RB, IN I I

2. VALUES OF RESISTOR SPECIFIED, RESISTORS ARE 1% ± 5% TOLERANCE. ALL RESISTANCE VALUES ARE IN OHMS UNLESS OTHERWISE SPECIFIED. ALL CAPACITANCE VALUES ARE IN MICRO CAPACITORS. ALL CAPACITANCE VALUES ARE IN PICOGRAMS UNLESS OTHERWISE SPECIFIED. ALL VALUES ARE RESISTOR OR CAPACITANCE UNLESS OTHERWISE SPECIFIED. ALL TRANSISTORS ARE 2N3906E (F) OR 2N3906B (7) PNP SILICON BIPOLAR TRANSISTORS.

Recording signal line

Tape P/B Signal line

Fig. 7-5

Tuner circuit

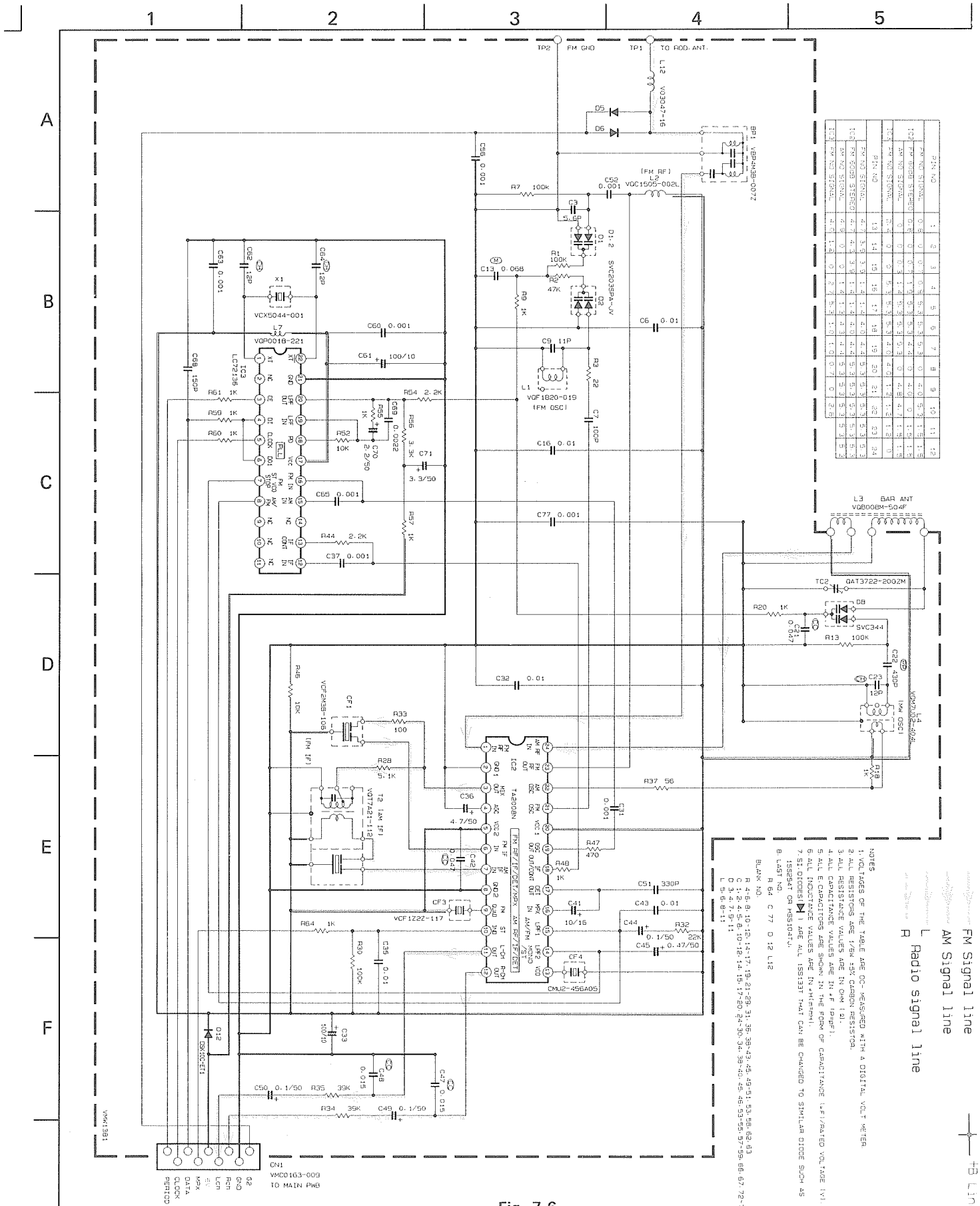


Fig. 7-6

To B-1 on page 63

8 Location of P. C. Board Parts and Parts List

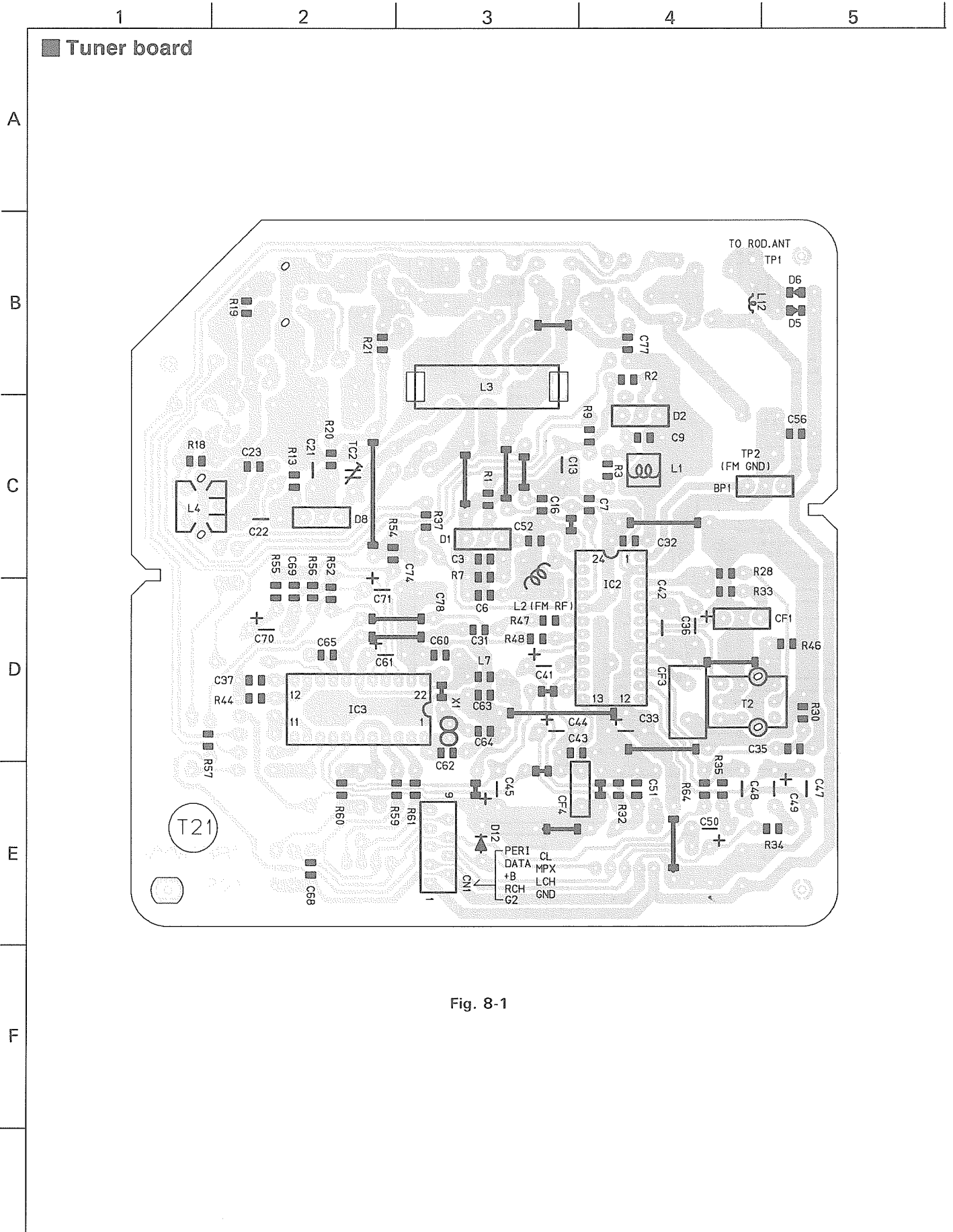
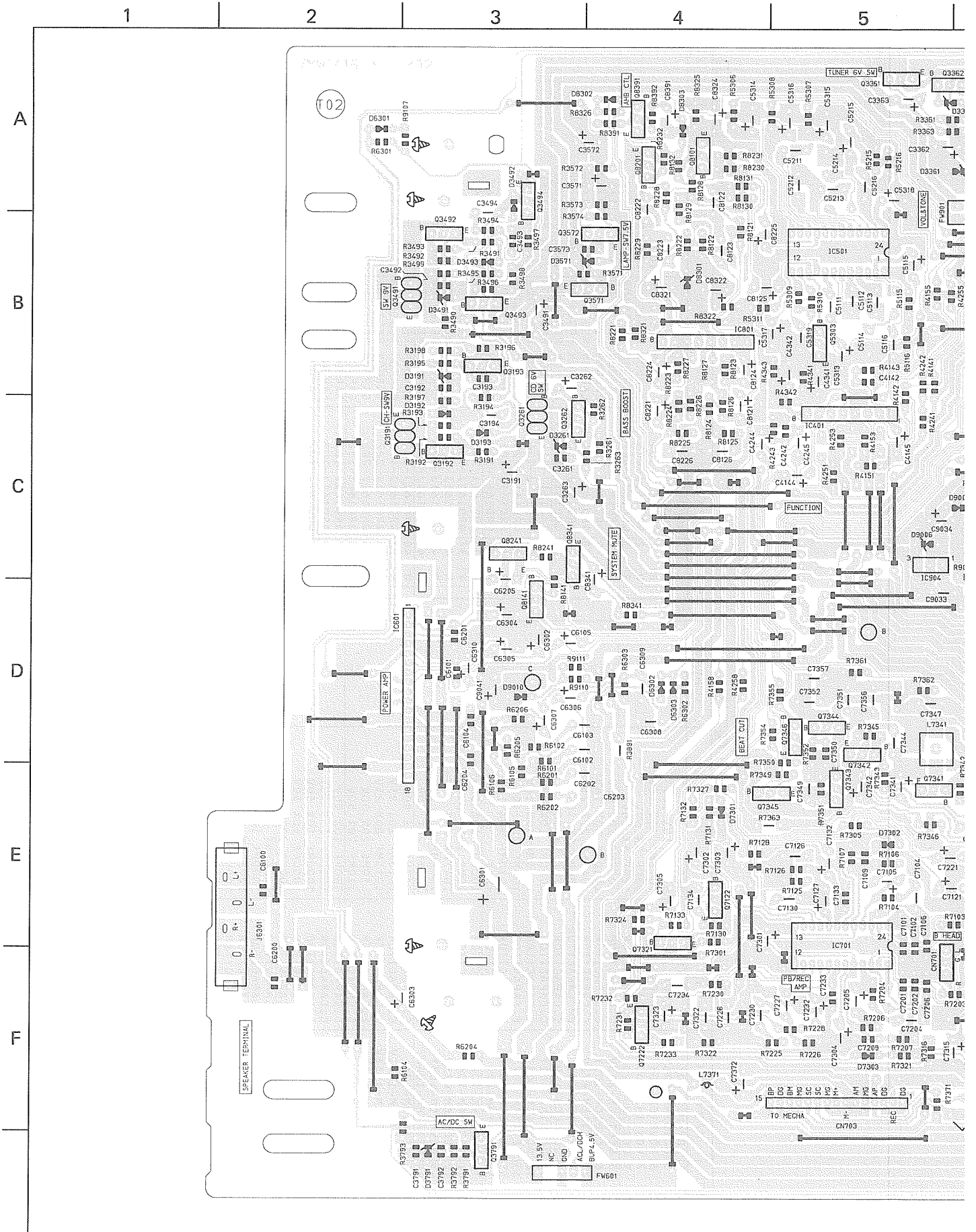


Fig. 8-1

Tuner board parts list

| BLOCK NO. 02 | | BLOCK NO. 02 | | |
|--------------|-----------------|-----------------|------------------|--------|
| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
| BP 1 | VBP4M3B-007Z | P FILTER | BPF | |
| C 3 | QC8B1HK-5R6Y | C.CAPACITOR | 5.6PF 10% 50V | |
| C 6 | QCVB1CN-103Y | C.CAPACITOR | .010MF 30% 16V | |
| C 7 | QCS11HJ-200 | C.CAPACITOR | 20PF 5% 50V | |
| C 9 | QCS11HJ-120 | C.CAPACITOR | 12PF 5% 50V | |
| C 13 | QCC11EM-223V | C.CAPACITOR | .022MF 20% 25V | |
| C 16 | QCVB1CN-103Y | C.CAPACITOR | .010MF 30% 16V | |
| C 21 | QCC11EM-473V | C.CAPACITOR | .047MF 20% 25V | |
| C 22 | QFP41HJ-431 | PP.CAPACITOR | 430PF 5% 50V | |
| C 23 | QCT30CH-120Y | C.CAPACITOR | 12PF 5% 50V | |
| C 31 | QCB1HK-102Y | C.CAPACITOR | 1000PF 10% 50V | |
| C 32 | QCVB1CN-103Y | C.CAPACITOR | .010MF 30% 16V | |
| C 33 | QET41AM-107 | E.CAPACITOR | 100MF 20% 10V | |
| C 35 | QCVB1CN-103Y | C.CAPACITOR | .010MF 30% 16V | |
| C 36 | QET41HM-475 | E.CAPACITOR | =R19 | |
| C 37 | QCB1HK-102Y | C.CAPACITOR | 1000PF 10% 50V | |
| C 41 | QET41CM-106 | E.CAPACITOR | 10MF 20% 16V | |
| C 42 | QCC11EM-473V | C.CAPACITOR | .047MF 20% 25V | |
| C 43 | QCVB1CN-103Y | C.CAPACITOR | .010MF 30% 16V | |
| C 44 | QET41HM-104N | E.CAPACITOR | .10MF 20% 50V | |
| C 45 | QET41HM-474 | E.CAPACITOR | .47MF 20% 50V | |
| C 47 | QCC31EM-153ZV | C.CAPACITOR | .015MF 20% 25V | |
| C 48 | QCC31EM-153ZV | C.CAPACITOR | .015MF 20% 25V | |
| C 49 | QET41HM-104N | E.CAPACITOR | .10MF 20% 50V | |
| C 50 | QET41HM-104N | E.CAPACITOR | .10MF 20% 50V | |
| C 51 | QCB1HK-331Y | C.CAPACITOR | 330PF 10% 50V | |
| C 52 | QCB1HK-102Y | C.CAPACITOR | 1000PF 10% 50V | |
| C 56 | QCB1HK-102Y | C.CAPACITOR | 1000PF 10% 50V | |
| C 60 | QCB1HK-102Y | C.CAPACITOR | 1000PF 10% 50V | |
| C 61 | QET41AM-107 | E.CAPACITOR | 100MF 20% 10V | |
| C 62 | QCT30CH-120Y | C.CAPACITOR | 12PF 5% 50V | |
| C 63 | QCB1HK-102Y | C.CAPACITOR | 1000PF 10% 50V | |
| C 64 | QCT30CH-120Y | C.CAPACITOR | 12PF 5% 50V | |
| C 65 | QCB1HK-102Y | C.CAPACITOR | 1000PF 10% 50V | |
| C 68 | QCB1HK-151Y | C.CAPACITOR | 150PF 10% 50V | |
| C 69 | QCB1CM-222Y | C.CAPACITOR | 2200PF 20% 16V | |
| C 70 | QETC1HM-225ZN | E.CAPACITOR | 2.2MF 20% 50V | |
| C 71 | QETC1HM-335Z | E.CAPACITOR | 3.3MF 20% 50V | |
| C 77 | QCB1HK-102Y | C.CAPACITOR | 1000PF 10% 50V | |
| CF 1 | VCF2M3B-106 | C FILTER | | |
| CF 3 | VCF1Z2Z-117Z | C FILTER | | |
| CF 4 | CMU2-456A05 | CERA LOCK | | |
| CN 1 | VMC0163-009 | CONNECTOR | TO MAIN | |
| D 1 | SVC203SPA-AB-AL | VARI CAP | | |
| D 2 | SVC203SPA-AB-AL | VARI CAP | | |
| D 5 | 1SS133 | SI DIODE | | |
| D 6 | 1SS133 | SI DIODE | | |
| D 8 | SVC344-AA | VARI CAP | | |
| D 12 | DSK10C-E | DIODE | | |
| IC 2 | TA2008N | IC | | |
| IC 3 | LC72136 | IC | | |
| L 1 | VQF1B20-019 | OSC COIL | FM OSC | |
| L 2 | VQC1505-002T | RF COIL | FM RF | |
| L 3 | VQB008M-504 | BAR ANTENA | MW RF | |
| L 4 | VQM7U02-404 | OSC COIL(MW) | MW OSC | |
| A REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
| L 7 | VQP0018-221 | INDUCTOR | | |
| L 12 | VQ3047-16 | RF COIL | | |
| R 1 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R 2 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R 3 | QRD161J-473 | CARBON RESISTOR | 4.7 5% 1/6W | |
| R 7 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R 9 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 13 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R 18 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 20 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 28 | QRD161J-512 | CARBON RESISTOR | 5.1K 5% 1/6W | |
| R 30 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R 32 | QRD161J-223 | CARBON RESISTOR | =B121 | |
| R 33 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R 34 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| R 35 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| R 37 | QRD161J-560 | CARBON RESISTOR | 56 5% 1/6W | |
| R 44 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R 46 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 47 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| R 48 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 52 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R 54 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R 55 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R 56 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| R 57 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 59 | QRD161J-102 | CARBON RESISTOR | =B113 | |
| R 60 | QRD161J-102 | CARBON RESISTOR | =B114 | |
| R 61 | QRD161J-102 | CARBON RESISTOR | =B108 | |
| R 64 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| T 2 | VQT7A21-112 | IFT | | |
| TC 2 | QAT3722-200ZM | T.CAPACITOR | MW RF TO ROD ANT | |
| TP 1 | VMZ0015-002 | POST PIN | GND | |
| TP 2 | VMZ0015-002 | POST PIN | | |
| X 1 | VCA5044-001 | CRYSTAL | | |

Main board



● Main board parts list

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|----------------|----------------|--------|
| C5318 | QET41EM-106 | E. CAPACITOR | 10MF 20% 25V | |
| C5319 | QFLC1HJ-473ZM | M. CAPACITOR | 0.47MF 5% 50V | |
| C6100 | QCB1HK-102Y | C. CAPACITOR | 1000PF 10% 50V | |
| C6101 | QCS11HJ-470 | C. CAPACITOR | 47PF 5% 50V | |
| C6102 | QFLC1HJ-104ZM | M. CAPACITOR | 1.0MF 5% 50V | |
| C6103 | QFLC1HJ-104ZM | M. CAPACITOR | 1.0MF 5% 50V | |
| C6104 | QCB1HK-221Y | C. CAPACITOR | 220PF 10% 50V | |
| C6105 | QTE1C03-106Z | E. CAPACITOR | 1000PF 10% 50V | |
| C6200 | QCB1HK-102Y | C. CAPACITOR | 47PF 5% 50V | |
| C6201 | QCS11HJ-470 | C. CAPACITOR | 1.0MF 5% 50V | |
| C6202 | QFLC1HJ-104ZM | M. CAPACITOR | 1.0MF 5% 50V | |
| C6203 | QFLC1HJ-104ZM | M. CAPACITOR | 1.0MF 5% 50V | |
| C6204 | QCB1HK-221Y | C. CAPACITOR | 220PF 10% 50V | |
| C6205 | QTE1C03-106Z | E. CAPACITOR | 1000PF 10% 50V | |
| C6301 | QET1EM-688 | E. CAPACITOR | 6800MF 20% 25V | |
| C6302 | QETC1HM-225ZM | E. CAPACITOR | 2.2MF 20% 50V | |
| C6303 | QET41CM-227 | E. CAPACITOR | 220MF 20% 16V | |
| C6304 | QET41CM-107 | E. CAPACITOR | 100MF 20% 16V | |
| C6305 | QET41CM-476 | E. CAPACITOR | 47MF 20% 16V | |
| C6306 | QET41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C6307 | QET41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C6308 | QFV81HJ-473 | FILM CAPACITOR | 0.47MF 5% 50V | |
| C6309 | QFV81HJ-473 | FILM CAPACITOR | 0.47MF 5% 50V | |
| C6310 | QET41EM-106 | E. CAPACITOR | 10MF 20% 25V | |
| C7101 | QCB1HK-102Y | C. CAPACITOR | 1000PF 10% 50V | |
| C7102 | QCB1HK-102Y | C. CAPACITOR | 1000PF 10% 50V | |
| C7103 | QET41AM-227 | E. CAPACITOR | 220MF 20% 10V | |
| C7104 | QFLC1HJ-333ZM | M. CAPACITOR | 0.33MF 5% 50V | |
| C7105 | QETC1HM-104ZN | E. CAPACITOR | 1.0MF 20% 50V | |
| C7106 | QCB1HK-151Y | C. CAPACITOR | 150PF 10% 50V | |
| C7109 | QCB1HK-221Y | C. CAPACITOR | 220PF 10% 50V | |
| C7121 | QET41HM-475 | E. CAPACITOR | 4.7MF 20% 50V | |
| C7126 | QCY41HK-332 | C. CAPACITOR | 3300PF 10% 50V | |
| C7127 | QETC1EM-226ZN | E. CAPACITOR | 22MF 20% 25V | |
| C7130 | QFLC1HJ-823ZM | M. CAPACITOR | 0.82MF 5% 50V | |
| C7132 | QET41HM-475 | E. CAPACITOR | 4.7MF 20% 50V | |
| C7133 | QCB1HK-221Y | C. CAPACITOR | 220PF 10% 50V | |
| C7134 | QFLC1HJ-223ZM | M. CAPACITOR | 0.22MF 5% 50V | |
| C7141 | QCS11HJ-331 | C. CAPACITOR | 330PF 5% 50V | |
| C7201 | QCB1HK-102Y | C. CAPACITOR | 1000PF 10% 50V | |
| C7202 | QCB1HK-102Y | C. CAPACITOR | 1000PF 10% 50V | |
| C7203 | QET41AM-227 | E. CAPACITOR | 220MF 20% 10V | |
| C7204 | QFLC1HJ-333ZM | M. CAPACITOR | 0.33MF 5% 50V | |
| C7205 | QETC1HM-104ZN | E. CAPACITOR | 1.0MF 20% 50V | |
| C7206 | QCB1HK-151Y | C. CAPACITOR | 150PF 10% 50V | |
| C7209 | QCB1HK-221Y | C. CAPACITOR | 220PF 10% 50V | |
| C7221 | QET41HM-475 | E. CAPACITOR | 4.7MF 20% 50V | |
| C7226 | QCY41HK-332 | C. CAPACITOR | 3300PF 10% 50V | |
| C7227 | QETC1EM-226ZN | E. CAPACITOR | 22MF 20% 25V | |
| C7230 | QFLC1HJ-823ZM | M. CAPACITOR | 0.82MF 5% 50V | |
| C7232 | QET41HM-475 | E. CAPACITOR | 4.7MF 20% 50V | |
| C7233 | QCB1HK-221Y | C. CAPACITOR | 220PF 10% 50V | |
| C7234 | QFLC1HJ-223ZM | M. CAPACITOR | 0.22MF 5% 50V | |
| C7241 | QCS11HJ-331 | C. CAPACITOR | 330PF 5% 50V | |
| C7301 | QET41CM-476 | E. CAPACITOR | 47MF 20% 16V | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|------------------|----------------|--------|
| CN401 | VMC0163-007 | CONNECTOR | MAIN-CD(CAMP) | |
| CN402 | VMC0041-004 | CONNECTOR | TP | |
| CN403 | VMC0041-002 | CONNECTOR | CHANGER MG | |
| CN701 | VMC0040-003 | CONNECTOR | TO P HEAD | |
| CN702 | VMC0040-007 | CONNECTOR | TO R/P HEAD | |
| CN703 | VMC0075-015W | CONNECTOR | TO MECHA SW | |
| CN901 | VMC0340-S16 | CONNECTOR | SW-MAIN | |
| CN902 | VMC0340-S10 | CONNECTOR | SW-MAIN | |
| CN903 | VMC0163-R09 | CONNECTOR | MAIN-TUNER | |
| CN904 | VMC0163-R11 | CONNECTOR | MAIN-CD(CTL) | |
| CN905 | VMC0163-R18 | CONNECTOR | MAIN-CHANG | |
| C3191 | QET41AM-477 | E. CAPACITOR | 470MF 20% 10V | |
| C3192 | QCVB1CM-103Y | C. CAPACITOR | 0.10MF 20% 16V | |
| C3193 | QCVB1CM-222Y | C. CAPACITOR | 2200PF 20% 16V | |
| C3194 | QCC11EM-104V | C. CAPACITOR | 1.0MF 20% 25V | |
| C3261 | QCVB1CM-103Y | C. CAPACITOR | 0.10MF 20% 16V | |
| C3262 | QET41EM-106 | E. CAPACITOR | 10MF 20% 25V | |
| C3263 | QET41AM-477 | E. CAPACITOR | 470MF 20% 10V | |
| C3361 | QET41CM-476 | E. CAPACITOR | 47MF 20% 16V | |
| C3362 | QETC1AM-337ZN | E. CAPACITOR | 330MF 20% 10V | |
| C3363 | QET41EM-106 | E. CAPACITOR | 10MF 20% 25V | |
| C3491 | QET41AM-107 | E. CAPACITOR | 100MF 20% 10V | |
| C3492 | QCVB1CM-103Y | C. CAPACITOR | 0.10MF 20% 16V | |
| C3493 | QCVB1CM-222Y | C. CAPACITOR | 2200PF 20% 16V | |
| C3494 | QENG1HM-105Z | NP. E. CAPACITOR | 1.0MF 20% 50V | |
| C3571 | QET41EM-106 | E. CAPACITOR | 10MF 20% 25V | |
| C3572 | QET41AM-477 | E. CAPACITOR | 470MF 20% 10V | |
| C3573 | QCVB1CM-103Y | C. CAPACITOR | 0.10MF 20% 16V | |
| C3791 | QCVB1CM-103Y | C. CAPACITOR | 0.10MF 20% 16V | |
| C3792 | QCB1HK-151Y | C. CAPACITOR | 150PF 10% 50V | |
| C4142 | QCSB1HK-5R6Y | E. CAPACITOR | 5.6PF 10% 50V | |
| C4144 | QETC1HM-225ZN | E. CAPACITOR | 2.2MF 20% 50V | |
| C4145 | QTE1C03-106Z | E. CAPACITOR | 1000PF 10% 50V | |
| C4151 | QCB1HK-681Y | C. CAPACITOR | 680PF 10% 50V | |
| C4242 | QCSB1HK-5R6Y | C. CAPACITOR | 5.6PF 10% 50V | |
| C4244 | QETC1HM-225ZN | E. CAPACITOR | 2.2MF 20% 50V | |
| C4245 | QTE1C03-106Z | E. CAPACITOR | 1000PF 10% 50V | |
| C4251 | QCB1HK-681Y | C. CAPACITOR | 680PF 10% 50V | |
| C4341 | QET41CM-476 | E. CAPACITOR | 47MF 20% 16V | |
| C4342 | QET41AM-107 | E. CAPACITOR | 100MF 20% 10V | |
| C5111 | QFLC1HJ-472ZM | M. CAPACITOR | 4700PF 5% 50V | |
| C5112 | QFLC1HJ-683ZM | M. CAPACITOR | 0.68MF 5% 50V | |
| C5113 | QFLC1HJ-683ZM | M. CAPACITOR | 0.68MF 5% 50V | |
| C5115 | QET41HM-475 | E. CAPACITOR | 4.7MF 20% 50V | |
| C5116 | QFLC1HJ-332ZM | M. CAPACITOR | 3300PF 5% 50V | |
| C5211 | QFLC1HJ-472ZM | M. CAPACITOR | 4700PF 5% 50V | |
| C5212 | QFLC1HJ-683ZM | M. CAPACITOR | 0.68MF 5% 50V | |
| C5213 | QFLC1HJ-683ZM | M. CAPACITOR | 0.68MF 5% 50V | |
| C5215 | QET41HM-475 | E. CAPACITOR | 4.7MF 20% 50V | |
| C5216 | QFLC1HJ-332ZM | M. CAPACITOR | 3300PF 5% 50V | |
| C5313 | QET41AM-107 | E. CAPACITOR | 100MF 20% 10V | |
| C5314 | QET41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C5315 | QET41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C5316 | QET41HM-105 | E. CAPACITOR | 1.0MF 20% 50V | |
| C5317 | QET41HM-475 | E. CAPACITOR | 4.7MF 20% 50V | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|----------------|----------------|----------------|--------|
| C9023 | QCBB1HK-101Y | C-CAPACITOR | | |
| C9030 | QET41CM-476 | E-CAPACITOR | XRST | |
| C9031 | QCBB1HK-102Y | C-CAPACITOR | PORT EXP | |
| C9032 | QET41CM-476 | E-CAPACITOR | REM | |
| C9033 | QFLC1HJ-1047M | M-CAPACITOR | 47MF 20% 16V | |
| C9034 | QET41EM-106 | E-CAPACITOR | US6VREG | |
| C9036 | QCBB1HK-151Y | C-CAPACITOR | 10MF 20% 25V | |
| C9037 | QCBB1HK-151Y | C-CAPACITOR | 150PF 10% 50V | |
| C9039 | QCBB1HK-151Y | C-CAPACITOR | 150PF 10% 50V | |
| C9040 | QFV41HJ-1047M | FILM CAPACITOR | 150PF 10% 50V | |
| C9501 | QCVB1CM-103Y | C-CAPACITOR | .10MF 5% 50V | |
| C9502 | QET41CM-476 | E-CAPACITOR | DRIVER | |
| C9503 | QET41CM-476 | E-CAPACITOR | 47MF 20% 16V | |
| D1901 | VGL1199-001 | LCD | 47MF 20% 16V | |
| D3191 | MTZ8-2JC | ZENER DIODE | | |
| D3192 | 1SS133 | SI DIODE | | |
| D3193 | 1SS133 | SI DIODE | | |
| D3261 | MTZ5-1JB | ZENER DIODE | | |
| D3361 | MTZ6-8JB | ZENER DIODE | | |
| D3362 | MTZ5-1JC | ZENER DIODE | | |
| D3491 | MTZ8-2JC | ZENER DIODE | | |
| D3492 | 1SS133 | SI DIODE | | |
| D3493 | 1SS133 | SI DIODE | | |
| D3571 | MTZ7-5JA | Z-DIODE | | |
| D3791 | MTZ6-2JAT-77 | Z-DIODE | | |
| D3891 | 1SS133 | SI DIODE | | |
| D3892 | 1SS133 | SI DIODE | | |
| D3893 | 1SS133 | SI DIODE | | |
| D6301 | RB721Q | DIODE | | |
| D6302 | 1SS133 | SI DIODE | | |
| D6303 | 1SS133 | SI DIODE | | |
| D7301 | 1SS133 | SI DIODE | | |
| D7302 | 1SS133 | SI DIODE | | |
| D7303 | 1SS133 | SI DIODE | | |
| D8301 | MTZ4-3JC | Z-DIODE | | |
| D8302 | 1SS133 | SI DIODE | | |
| D8303 | 1SS133 | SI DIODE | | |
| D9002 | MTZ5-1JC | ZENER DIODE | BACK UP | |
| D9003 | 1SS133 | SI DIODE | USSV | |
| D9004 | 1SS133 | SI DIODE | BATT | |
| D9005 | 1SS133 | SI DIODE | PORT EXP | |
| D9006 | MTZ8-2JB | ZENER DIODE | US6VREG | |
| D9501 | 1SR35-100 | SI DIODE | SOL DRIVE | |
| IC401 | NJM4580L | IC | ADDER | |
| IC501 | BH3852S | IC | VOL&TONE | |
| IC601 | LA4705NA | IC | BTL AMP | |
| IC701 | AM7345K | IC | PB/REC AMP | |
| IC702 | BA3126N | IC | HEAD SW | |
| IC801 | NJM4580L | IC | BB AMP | |
| IC901 | UPD78064GF-047 | IC | SYSTEM MICON | |
| IC902 | BU4094BC | IC | PORT EXP. | |
| IC903 | GP1U281Y | IC | REMOCON SENSOR | |
| IC904 | TA78DL06S | IC | US6VREG. | |
| IC905 | PST600H-T | IC | RESET | |
| IC951 | TAB409S | IC | LOAD M. DRIVE | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|----------------|----------------|--------|
| C7302 | QETC1EM-226ZN | E-CAPACITOR | 22MF 20% 25V | |
| C7303 | QETC1EM-226ZN | E-CAPACITOR | 22MF 20% 25V | |
| C7304 | QET41HM-475 | E-CAPACITOR | 4.7MF 20% 50V | |
| C7305 | QETC1HM-355ZN | E-CAPACITOR | 3.5MF 20% 50V | |
| C7315 | QET41CM-107 | E-CAPACITOR | 100MF 20% 16V | |
| C7322 | QFLC1HJ-393ZM | M-CAPACITOR | .039MF 5% 50V | |
| C7323 | QET41AM-227 | E-CAPACITOR | 220MF 20% 10V | |
| C7341 | QET41CM-106 | E-CAPACITOR | 10MF 20% 16V | |
| C7342 | QETC1HM-104ZN | E-CAPACITOR | .10MF 20% 50V | |
| C7343 | QFLC1HJ-473ZM | M-CAPACITOR | .047MF 5% 50V | |
| C7344 | QFLC1HJ-104ZM | M-CAPACITOR | .10MF 5% 50V | |
| C7345 | QFLC1HJ-103ZM | M-CAPACITOR | .010MF 5% 50V | |
| C7346 | QFP31HJ-102ZM | PP-CAPACITOR | 1000PF 5% 50V | |
| C7347 | QFP32AJ-123ZM | PP-CAPACITOR | .012MF 5% 100V | |
| C7349 | QCC31EM-393ZV | C-CAPACITOR | .039MF 20% 25V | |
| C7350 | QCVB1CM-103Y | C-CAPACITOR | .010MF 20% 16V | |
| C7351 | QFN41HJ-222 | M-CAPACITOR | BIAS1 | |
| C7352 | QFN41HJ-102 | M-CAPACITOR | BIAS2 | |
| C7356 | QCS11HJ-351 | C-CAPACITOR | BIAS1 | |
| C7357 | QCS11HJ-151 | C-CAPACITOR | BIAS2 | |
| C7372 | QET41AM-227 | E-CAPACITOR | 220MF 20% 10V | |
| C8121 | QETC1EM-226ZM | E-CAPACITOR | 22MF 20% 25V | |
| C8122 | QFV41HJ-104ZM | FILM CAPACITOR | .10MF 5% 50V | |
| C8123 | QFV41HJ-104ZM | FILM CAPACITOR | .10MF 5% 50V | |
| C8124 | QET41AM-107 | E-CAPACITOR | 100MF 20% 10V | |
| C8125 | QET41HM-105 | E-CAPACITOR | 1.0MF 20% 50V | |
| C8126 | QFLC1HJ-393ZM | M-CAPACITOR | .039MF 5% 50V | |
| C8221 | QETC1EM-226ZM | E-CAPACITOR | 22MF 20% 25V | |
| C8222 | QFV41HJ-104ZM | FILM CAPACITOR | .10MF 5% 50V | |
| C8223 | QFV41HJ-104ZM | FILM CAPACITOR | .10MF 5% 50V | |
| C8224 | QET41AM-107 | E-CAPACITOR | 100MF 20% 10V | |
| C8225 | QET41HM-105 | E-CAPACITOR | 1.0MF 20% 50V | |
| C8226 | QFLC1HJ-393ZM | M-CAPACITOR | .039MF 5% 50V | |
| C8321 | QET41CM-476 | E-CAPACITOR | 47MF 20% 16V | |
| C8322 | QET41CM-476 | E-CAPACITOR | 47MF 20% 16V | |
| C8324 | QET41HM-105 | E-CAPACITOR | 1.0MF 20% 50V | |
| C8341 | QET41EM-106 | E-CAPACITOR | 10MF 20% 25V | |
| C8391 | QCS11HJ-180 | C-CAPACITOR | 4.7MF 20% 50V | |
| C9001 | QCS11HJ-180 | C-CAPACITOR | SUB CLOCK | |
| C9002 | QCS11HJ-180 | C-CAPACITOR | SUB CLOCK | |
| C9003 | QCBB1HK-102Y | C-CAPACITOR | BEAT | |
| C9004 | QCBB1HK-102Y | C-CAPACITOR | BEAT | |
| C9005 | QCS11HJ-360 | C-CAPACITOR | MAIN CLOCK | |
| C9006 | QCS11HJ-360 | C-CAPACITOR | MAIN CLOCK | |
| C9007 | QCS11HJ-220 | C-CAPACITOR | MAIN CLOCK | |
| C9008 | QCS11HJ-240 | C-CAPACITOR | MAIN CLOCK | |
| C9009 | QCVB1CM-103Y | C-CAPACITOR | VDD | |
| C9010 | QET41CM-107 | E-CAPACITOR | VDD | |
| C9011 | QCVB1CM-103Y | C-CAPACITOR | RESET | |
| C9012 | QETC1EM-226ZM | E-CAPACITOR | 22MF 20% 25V | |
| C9016 | QCBB1HK-101Y | C-CAPACITOR | SGCK | |
| C9017 | QET41EM-106 | E-CAPACITOR | VOL | |
| C9019 | QET41EM-106 | E-CAPACITOR | BASS | |
| C9020 | QET41EM-106 | E-CAPACITOR | TRE | |
| C9021 | QFLC1HJ-104ZM | M-CAPACITOR | AVDD | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---------|--------------|-----------------|--------------|--------|
| A 08391 | DT115ES | TRANSISTOR | | |
| 09001 | 2SC2668(O) | TRANSISTOR | MAIN CLOCK | |
| 09002 | 2SC2668(O) | TRANSISTOR | MAIN CLOCK | |
| 09003 | 2SC3330 | TRANSISTOR | BACK UP | |
| 09005 | 2SA1175 | TRANSISTOR | +BCTL | |
| 09006 | DT1447S | TRANSISTOR | TU CTL | |
| 09007 | DT1447S | TRANSISTOR | TU CTL | |
| 09501 | 2SB562(B,C) | TRANSISTOR | SOL DRIVE | |
| 09502 | DT1141STP | TRANSISTOR | UDM VOL CTL | |
| 09503 | 2SC2785 | TRANSISTOR | | |
| R3191 | QRD161J-821 | CARBON RESISTOR | 820 5% 1/6W | |
| R3192 | QRD161J-564 | CARBON RESISTOR | 560K 5% 1/6W | |
| R3193 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| R3194 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R3195 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R3196 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| R3197 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R3198 | QRD161J-104 | CARBON RESISTOR | | |
| R3261 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R3262 | QRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| R3263 | QRD167J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| R3361 | QRD161J-121 | CARBON RESISTOR | 120 5% 1/6W | |
| R3362 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| R3363 | QRD161J-121 | CARBON RESISTOR | 120 5% 1/6W | |
| R3490 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R3491 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| R3492 | QRD161J-564 | CARBON RESISTOR | 560K 5% 1/6W | |
| R3493 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| R3494 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R3495 | QRD167J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| R3496 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R3497 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R3498 | QRD161J-821 | CARBON RESISTOR | 820 5% 1/6W | |
| R3499 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R3571 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R3572 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| R3573 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R3574 | QRD161J-121 | CARBON RESISTOR | 120 5% 1/6W | |
| R3791 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R3792 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R3793 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R3891 | QRZ0077-4R7X | FUSE RESISTOR | 4.7 1/0W | |
| R4141 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R4142 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| R4143 | QRD161J-124 | CARBON RESISTOR | 120K 5% 1/6W | |
| R4151 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| R4153 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R4155 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |
| R4158 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |
| R4241 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R4242 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| R4243 | QRD161J-124 | CARBON RESISTOR | 120K 5% 1/6W | |
| R4251 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| R4253 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R4255 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---------|--------------|----------------|--------------|--------|
| A IC952 | TA8409S | IC | | |
| J6301 | EMB901V-401A | SPK TERMINAL | U/D M. DRIVE | |
| L4351 | VMJ4026-001 | HEADPHONE JACK | | |
| L4352 | VQZ0048-009 | INDUCTOR | | |
| L4353 | VQZ0048-009 | INDUCTOR | | |
| L6102 | VQZ0048-007 | INDUCTOR | | |
| L6202 | VQZ0048-007 | INDUCTOR | | |
| L7341 | VQH1009-026 | OSC COIL | | |
| L7371 | VQP0033-100Z | INDUCTOR | | |
| L9001 | VGP0033-100Z | INDUCTOR | VDD | |
| L9002 | VQP0033-100Z | INDUCTOR | AVDD | |
| L9003 | VQP0033-100Z | INDUCTOR | AVREF | |
| L9004 | VGP0018-4R7 | INDUCTOR | SDATA | |
| L9005 | VQP0018-4R7 | INDUCTOR | SKK | |
| L9006 | VQZ0048-009 | INDUCTOR | VSS | |
| L9008 | VGP0033-100Z | INDUCTOR | | |
| L9009 | VQZ0048-009 | INDUCTOR | | |
| L9010 | VQP0018-4R7 | INDUCTOR | | |
| L9011 | VQP0018-4R7 | INDUCTOR | | |
| L9012 | VGP0018-4R7 | INDUCTOR | | |
| L9013 | VQP0018-4R7 | INDUCTOR | | |
| L9015 | VQP0018-4R7 | INDUCTOR | POUT | |
| L9501 | VGP0018-100 | INDUCTOR | CH-SW5V | |
| PL901 | VGZ0001-060 | LAMP | | |
| Q3191 | 2SB72(Q,P) | TRANSISTOR | | |
| Q3192 | 2SC2785 | TRANSISTOR | | |
| Q3193 | 2SC2785 | TRANSISTOR | | |
| Q3261 | 2SB72(Q,P) | TRANSISTOR | | |
| Q3262 | 2SC2785 | TRANSISTOR | | |
| Q3361 | 2SC2785 | TRANSISTOR | TUNER SW | |
| Q3362 | DTA114YS | TRANSISTOR | | |
| Q3491 | 2SB1274(R,S) | TRANSISTOR | | |
| Q3492 | 2SC2785 | TRANSISTOR | | |
| Q3493 | 2SC2785 | TRANSISTOR | | |
| Q3494 | 2SC2785 | TRANSISTOR | | |
| Q3571 | 2SA952(L,K) | TRANSISTOR | | |
| Q3572 | 2SC2785 | TRANSISTOR | | |
| Q3791 | 2SC2785 | TRANSISTOR | | |
| Q3891 | DTA114YS | TRANSISTOR | | |
| Q5303 | DT124ES | TRANSISTOR | | |
| Q7122 | 2SC2785 | TRANSISTOR | REC MUTE | |
| Q7222 | 2SC2785 | TRANSISTOR | REC MUTE | |
| Q7321 | 2SC2785 | TRANSISTOR | R MUTE DRIVE | |
| Q7341 | 2SC945L(P,Q) | TRANSISTOR | | |
| Q7342 | 2SC2001(L,K) | TRANSISTOR | | |
| Q7343 | 2SC2001(L,K) | TRANSISTOR | | |
| Q7344 | 2SC2001(L,K) | TRANSISTOR | | |
| Q7345 | 2SC2785 | TRANSISTOR | | |
| Q7346 | 2SC2785 | TRANSISTOR | | |
| Q8101 | 2SC2785 | TRANSISTOR | | |
| Q8141 | 2SC2001(L,K) | TRANSISTOR | | |
| Q8201 | 2SC2785 | TRANSISTOR | | |
| Q8241 | 2SC2001(L,K) | TRANSISTOR | | |
| Q8341 | DTA114ES | TRANSISTOR | MUTE DRIV | |

BLOCK NO. 01111111

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|-------------|-----------------|--------------|--------|
| R7301 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| R7305 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R7315 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| R7316 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R7321 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R7322 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| R7324 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| R7327 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| R7341 | QRD0077-470 | F RESISTOR | 47 1/0W | |
| R7342 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R7343 | QRD161J-3R9 | CARBON RESISTOR | 3.9 5% 1/6W | |
| R7344 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| R7345 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R7346 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R7349 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| R7350 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| R7351 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R7352 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R7354 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| R7355 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| R7361 | QRD161J-394 | CARBON RESISTOR | 390K 5% 1/6W | |
| R7362 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| R7371 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R8121 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R8122 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| R8123 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R8124 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R8125 | QRD161J-333 | CARBON RESISTOR | 33K 5% 1/6W | |
| R8126 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R8129 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R8130 | QRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| R8131 | QRD167J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| R8132 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R8141 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R8221 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R8222 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| R8223 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R8224 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R8226 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R8228 | QRD161J-622 | CARBON RESISTOR | 6.2K 5% 1/6W | |
| R8229 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R8230 | QRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| R8231 | QRD167J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| R8232 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R8241 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R8321 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R8322 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R8325 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R8326 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R8341 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R8391 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| R8392 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| R9001 | QRD161J-681 | CARBON RESISTOR | MAIN-CLOCK | |

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|-------------|-----------------|--------------|--------|
| R4258 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |
| R4341 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R4342 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R4343 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R5115 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R5116 | QRD167J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| R5215 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R5216 | QRD167J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| R5306 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R5307 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R5308 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| R5309 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R5310 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R5311 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R6101 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| R6102 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| R6103 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| R6104 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| R6105 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R6106 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R6201 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| R6202 | QRD161J-2R2 | CARBON RESISTOR | 2.2 5% 1/6W | |
| R6203 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| R6204 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| R6205 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R6206 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R6301 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R6302 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| R6303 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| R7103 | QRD161J-220 | CARBON RESISTOR | 22 5% 1/6W | |
| R7104 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| R7106 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R7107 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R7121 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |
| R7125 | QRD161J-560 | CARBON RESISTOR | 56 5% 1/6W | |
| R7126 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |
| R7128 | QRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| R7130 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| R7131 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| R7132 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R7133 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R7141 | QRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| R7203 | QRD161J-220 | CARBON RESISTOR | 22 5% 1/6W | |
| R7204 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| R7206 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R7207 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R7221 | QRD161J-183 | CARBON RESISTOR | 18K 5% 1/6W | |
| R7225 | QRD161J-560 | CARBON RESISTOR | 56 5% 1/6W | |
| R7226 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |
| R7228 | QRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| R7230 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| R7231 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| R7232 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R7233 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R7241 | QRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |

BLOCK NO. 01111111

| A REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|--------|----------------|-----------------|-----------------|--------|
| R9060 | GRD161J-103 | CARBON RESISTOR | LED10 | |
| R9061 | GRD161J-822 | CARBON RESISTOR | LCD BIAS | |
| R9062 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R9063 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R9064 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R9065 | GRD161J-102 | CARBON RESISTOR | STAT | |
| R9066 | GRD161J-102 | CARBON RESISTOR | XRST | |
| R9070 | GRD161J-103 | CARBON RESISTOR | SCD | |
| R9073 | GRD161J-103 | CARBON RESISTOR | LM F | |
| R9074 | GRD161J-103 | CARBON RESISTOR | LM R | |
| R9075 | GRD161J-103 | CARBON RESISTOR | UDM UP | |
| R9076 | GRD161J-103 | CARBON RESISTOR | UDM DOWN | |
| R9077 | GRD161J-222 | CARBON RESISTOR | UDM V | |
| R9078 | GRD161J-222 | CARBON RESISTOR | SOL | |
| R9079 | GRD161J-103 | CARBON RESISTOR | PIN | |
| R9080 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R9081 | GRD161J-222 | CARBON RESISTOR | RECB | |
| R9082 | GRD161J-103 | CARBON RESISTOR | AC/DC | |
| R9083 | GRD161J-103 | CARBON RESISTOR | SAFETY2 | |
| R9084 | GRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R9085 | GRD161J-103 | CARBON RESISTOR | LATCH | |
| R9086 | GRD161J-102 | CARBON RESISTOR | SDATA | |
| R9087 | GRD161J-102 | CARBON RESISTOR | SCK | |
| R9088 | GRD161J-103 | CARBON RESISTOR | AHB | |
| R9089 | GRD161J-222 | CARBON RESISTOR | PBM | |
| R9090 | GRD161J-222 | CARBON RESISTOR | RECH | |
| R9091 | GRD161J-103 | CARBON RESISTOR | A/B | |
| R9092 | GRD161J-103 | CARBON RESISTOR | BIAS2 | |
| R9093 | GRD161J-103 | CARBON RESISTOR | BIAS1 | |
| R9094 | GRD161J-103 | CARBON RESISTOR | LIVE | |
| R9095 | GRD161J-103 | CARBON RESISTOR | FTU | |
| R9096 | GRD161J-104 | CARBON RESISTOR | RECSM PUP | |
| R9097 | GRD161J-273 | CARBON RESISTOR | CD REST | |
| R9098 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R9099 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R9100 | GRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R9101 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R9105 | GRD161J-102 | CARBON RESISTOR | MPX | |
| R9106 | GRD161J-102 | CARBON RESISTOR | PERIOD | |
| R9501 | GR20076-100X | FUSI RESISTOR | DRIVER | |
| R9502 | GRD161J-181 | CARBON RESISTOR | 180 5% 1/6W | |
| R9503 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R9504 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R9505 | GRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| R9506 | GRD161J-563 | CARBON RESISTOR | DC LIM | |
| R9507 | GRD161J-563 | CARBON RESISTOR | UL LIM | |
| R9508 | GRD161J-273 | CARBON RESISTOR | CLOSE | |
| R9509 | GRD161J-273 | CARBON RESISTOR | UP | |
| R9510 | GRD161J-563 | CARBON RESISTOR | DOWN | |
| R9511 | GRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R9512 | GRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| VR741 | QVPA603-203M | SEMI.V.RESISTOR | BIAS ADJ | |
| VR761 | QVPA603-102AZA | SEMI.V.RESISTOR | SPEED ADJ(X106) | |
| X9001 | VCX5000-002 | CRYSTAL | SUB CLOCK | |
| X9002 | M2Z4-19 | CERA LOCK | MAIN CLOCK | |

BLOCK NO. 01111111

| A REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|--------|-------------|-----------------|-------------|--------|
| R9002 | GRD161J-681 | CARBON RESISTOR | MAIN-CLOCK | |
| R9003 | GRD161J-103 | CARBON RESISTOR | RESET | |
| R9005 | GRD161J-104 | CARBON RESISTOR | BACK UP | |
| R9006 | GRD161J-673 | CARBON RESISTOR | 47K 5% 1/6W | |
| R9007 | GRD161J-353 | CARBON RESISTOR | 33K 5% 1/6W | |
| R9008 | GRD161J-153 | CARBON RESISTOR | SDATA | |
| R9009 | GRD161J-153 | CARBON RESISTOR | SCK | |
| R9010 | GRD161J-102 | CARBON RESISTOR | SDATA | |
| R9011 | GRD161J-102 | CARBON RESISTOR | SCK | |
| R9012 | GRD161J-102 | CARBON RESISTOR | SUBQ | |
| R9013 | GRD161J-102 | CARBON RESISTOR | SOCK | |
| R9014 | GRD161J-103 | CARBON RESISTOR | RESET | |
| R9015 | GRD161J-222 | CARBON RESISTOR | DC PS | |
| R9016 | GRD161J-222 | CARBON RESISTOR | LP PS | |
| R9017 | GRD161J-222 | CARBON RESISTOR | 8CM PS | |
| R9018 | GRD161J-222 | CARBON RESISTOR | REM | |
| R9019 | GRD161J-222 | CARBON RESISTOR | BEAT | |
| R9020 | GRD161J-103 | CARBON RESISTOR | BACK UP | |
| R9021 | GRD161J-682 | CARBON RESISTOR | 8CTL | |
| R9022 | GRD161J-103 | CARBON RESISTOR | RECSM | |
| R9023 | GRD161J-562 | CARBON RESISTOR | FCD | |
| R9025 | GRD161J-222 | CARBON RESISTOR | SMUTE | |
| R9026 | GRD161J-682 | CARBON RESISTOR | VOLUM | |
| R9027 | GRD161J-103 | CARBON RESISTOR | BASS | |
| R9028 | GRD161J-103 | CARBON RESISTOR | TRE | |
| R9030 | GRD161J-243 | CARBON RESISTOR | BASS | |
| R9031 | GRD161J-243 | CARBON RESISTOR | TRE | |
| R9032 | GRD161J-103 | CARBON RESISTOR | KEY0 | |
| R9033 | GRD161J-103 | CARBON RESISTOR | KEY1 | |
| R9034 | GRD161J-103 | CARBON RESISTOR | KEY2 | |
| R9035 | GRD161J-222 | CARBON RESISTOR | REST | |
| R9036 | GRD161J-222 | CARBON RESISTOR | LOAD | |
| R9037 | GRD161J-222 | CARBON RESISTOR | DOWN | |
| R9038 | GRD161J-222 | CARBON RESISTOR | KEY3 | |
| R9039 | GRD161J-103 | CARBON RESISTOR | SAFETY1 | |
| R9040 | GRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| R9041 | GRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| R9042 | GRD161J-103 | CARBON RESISTOR | PULL UP | |
| R9043 | GRD161J-103 | CARBON RESISTOR | PULL UP | |
| R9044 | GRD161J-103 | CARBON RESISTOR | PULL UP | |
| R9045 | GRD161J-103 | CARBON RESISTOR | PULL UP | |
| R9046 | GRD161J-103 | CARBON RESISTOR | PULL UP | |
| R9047 | GRD161J-103 | CARBON RESISTOR | PULL UP | |
| R9048 | GRD161J-103 | CARBON RESISTOR | PULL UP | |
| R9049 | GRD161J-103 | CARBON RESISTOR | MPX | |
| R9050 | GRD161J-103 | CARBON RESISTOR | PERIOD | |
| R9051 | GRD161J-103 | CARBON RESISTOR | LED1 | |
| R9052 | GRD161J-103 | CARBON RESISTOR | LED2 | |
| R9053 | GRD161J-103 | CARBON RESISTOR | LED3 | |
| R9054 | GRD161J-103 | CARBON RESISTOR | LED4 | |
| R9055 | GRD161J-103 | CARBON RESISTOR | LED5 | |
| R9056 | GRD161J-103 | CARBON RESISTOR | LED6 | |
| R9057 | GRD161J-103 | CARBON RESISTOR | LED7 | |
| R9058 | GRD161J-103 | CARBON RESISTOR | LED8 | |
| R9059 | GRD161J-103 | CARBON RESISTOR | LED9 | |

■ Power supply/key switch board

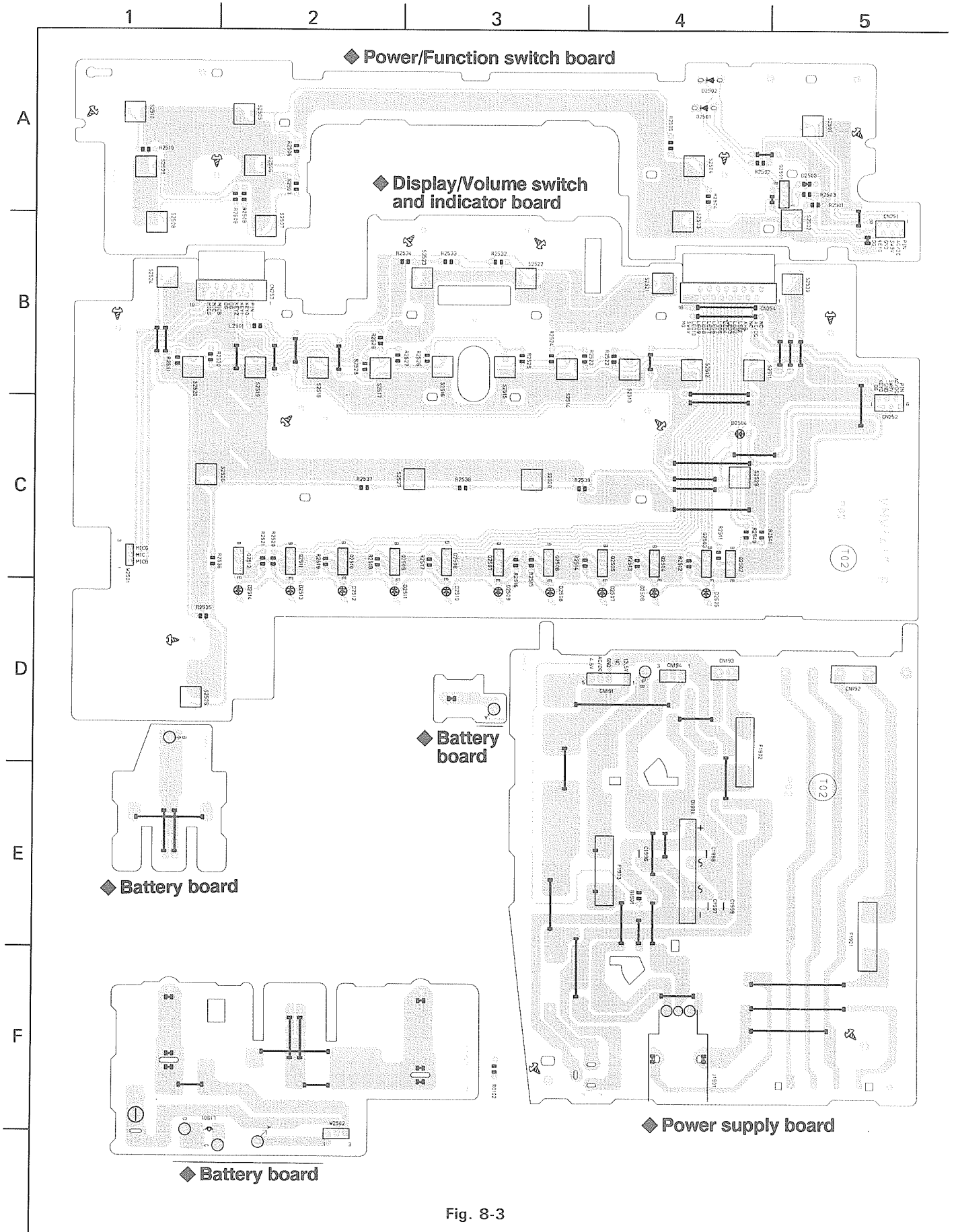


Fig. 8-3

● Power supply/key switch board parts list

| BLOCK NO. 03 | | | | BLOCK NO. 03 | | | | | |
|--------------|---------------|-----------------|----------------|--------------|--------|-------------|-----------------|--------------|--------|
| A REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX | A REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
| CN191 | VMC0041-005 | CONNECTOR | | | R2515 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| CN192 | EMV5137-002 | CONNECTOR | | | R2516 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| CN193 | VMZ0049-A02 | CONNECTOR | | | R2517 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| CN194 | VMC0041-003 | CONNECTOR | | | R2518 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| CN251 | VMC0163-R06 | CONNECTOR | KEYA-KEYB | | R2519 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| CN252 | VMC0163-R06 | CONNECTOR | KEYA-KEYB | | R2520 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| CN253 | VMC0340-P10 | CONNECTOR | SW-MAIN | | R2521 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | |
| CN254 | VMC0340-P16 | CONNECTOR | SW-MAIN | | R2522 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| C1995 | GETM1EM-358 | E CAPACITOR | 3300MF 20% 25V | | R2523 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| C1996 | GFV71HJ-683ZM | FILM CAPACITOR | .068MF 5% 50V | | R2524 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| C1997 | GFV71HJ-683ZM | FILM CAPACITOR | .068MF 5% 50V | | R2525 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| C1998 | GFV71HJ-683ZM | FILM CAPACITOR | .068MF 5% 50V | | R2526 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| C1999 | GFV71HJ-683ZM | FILM CAPACITOR | .068MF 5% 50V | | R2527 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| D1901 | D5SBA20-4003 | SI DIODE | | | R2528 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| D2502 | SLR-325VCT31 | LED | STAND-BY LED | | R2529 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| D2503 | 1SS133 | SI DIODE | FOR STAND-BY | | R2530 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| D2504 | SLZ-981C09-T6 | LED | AHB | | R2532 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| D2505 | SLZ-981C09-T6 | LED | DISC1 | | R2533 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| D2506 | SLZ-981C09-T6 | LED | DISC2 | | R2534 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| D2507 | SLZ-981C09-T6 | LED | DISC3 | | R2535 | QRD161J-152 | CARBON RESISTOR | 1.5K 5% 1/6W | |
| D2508 | SLZ-981C09-T6 | LED | DISC4 | | R2536 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| D2509 | SLZ-981C09-T6 | LED | DISC5 | | R2537 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| D2510 | SLZ-981C09-T6 | LED | DISC6 | | R2538 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| D2511 | SLZ-981C09-T6 | LED | DISC7 | | R2539 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| D2512 | SLZ-981C09-T6 | LED | DISC8 | | R2540 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| D2513 | SLZ-981C09-T6 | LED | DISC9 | | R2501 | Q84H11-V10Z | TACT SWITCH | POWER | |
| D2514 | SLZ-981C09-T6 | LED | DISC10 | | R2502 | Q84H11-V10Z | TACT SWITCH | TUNER | |
| J1901 | QMCB251-V01 | AC SOCKET | | | R2503 | Q84H11-V10Z | TACT SWITCH | CLOCK | |
| L2501 | VQP0018-4R7 | INDUCTOR | | | R2504 | Q84H11-V10Z | TACT SWITCH | TIMER | |
| Q2502 | DTA124-TS1P | TRANSISTOR TAPE | STAND-BY LED | | R2505 | Q84H11-V10Z | TACT SWITCH | DEMO | |
| Q2503 | DTC114-TS1P | TRANSISTOR | AHB | | R2506 | Q84H11-V10Z | TACT SWITCH | CONTINUE | |
| Q2504 | DTC114-TS1P | TRANSISTOR | D1LED | | R2507 | Q84H11-V10Z | TACT SWITCH | PROGRAM | |
| Q2505 | DTC114-TS1P | TRANSISTOR | D2LED | | R2508 | Q84H11-V10Z | TACT SWITCH | TRACK | |
| Q2506 | DTC114-TS1P | TRANSISTOR | D3LED | | R2509 | Q84H11-V10Z | TACT SWITCH | B-SKIP | |
| Q2507 | DTC114-TS1P | TRANSISTOR | D4LED | | R2510 | Q84H11-V10Z | TACT SWITCH | F-SKIP | |
| Q2508 | DTC114-TS1P | TRANSISTOR | D5LED | | R2511 | Q84H11-V10Z | TACT SWITCH | DISC1 | |
| Q2509 | DTC114-TS1P | TRANSISTOR | D6LED | | R2512 | Q84H11-V10Z | TACT SWITCH | DISC2 | |
| Q2510 | DTC114-TS1P | TRANSISTOR | D7LED | | R2513 | Q84H11-V10Z | TACT SWITCH | DISC3 | |
| Q2511 | DTC114-TS1P | TRANSISTOR | D8LED | | R2514 | Q84H11-V10Z | TACT SWITCH | DISC4 | |
| Q2512 | DTC114-TS1P | TRANSISTOR | D9LED | | R2515 | Q84H11-V10Z | TACT SWITCH | DISC5 | |
| R1901 | QRD161J-103 | CARBON RESISTOR | D10LED | | R2516 | Q84H11-V10Z | TACT SWITCH | DISC6 | |
| R2502 | QRD161J-331 | CARBON RESISTOR | AC/DC | | R2517 | Q84H11-V10Z | TACT SWITCH | DISC7 | |
| R2503 | QRD161J-102 | CARBON RESISTOR | STAND-BY | | R2518 | Q84H11-V10Z | TACT SWITCH | DISC8 | |
| R2504 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | | R2519 | Q84H11-V10Z | TACT SWITCH | DISC9 | |
| R2505 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | | R2520 | Q84H11-V10Z | TACT SWITCH | DISC10 | |
| R2506 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | | R2521 | Q84H11-V10Z | TACT SWITCH | DISP | |
| R2507 | QRD161J-222 | CARBON RESISTOR | 1.5K 5% 1/6W | | R2522 | Q84H11-V10Z | TACT SWITCH | STOP | |
| R2508 | QRD161J-272 | CARBON RESISTOR | 1.5K 5% 1/6W | | R2523 | Q84H11-V10Z | TACT SWITCH | PLAY | |
| R2509 | QRD161J-392 | CARBON RESISTOR | 2.2K 5% 1/6W | | R2524 | Q84H11-V10Z | TACT SWITCH | +10 | |
| R2510 | QRD161J-562 | CARBON RESISTOR | 2.7K 5% 1/6W | | R2525 | Q84H11-V10Z | TACT SWITCH | OP/CL | |
| R2511 | QRD161J-562 | CARBON RESISTOR | 3.9K 5% 1/6W | | R2526 | Q84H11-V10Z | TACT SWITCH | SOUND | |
| R2512 | QRD161J-331 | CARBON RESISTOR | 5.6K 5% 1/6W | | R2527 | Q84H11-V10Z | TACT SWITCH | VOL+ | |
| R2513 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | | R2528 | Q84H11-V10Z | TACT SWITCH | VOL- | |
| R2514 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | | R2529 | Q84H11-V10Z | TACT SWITCH | AHB | |
| R2515 | QRD161J-331 | CARBON RESISTOR | 330 5% 1/6W | | R2530 | Q84H11-V10Z | TACT SWITCH | PRESET | |

■ CD amplifier board

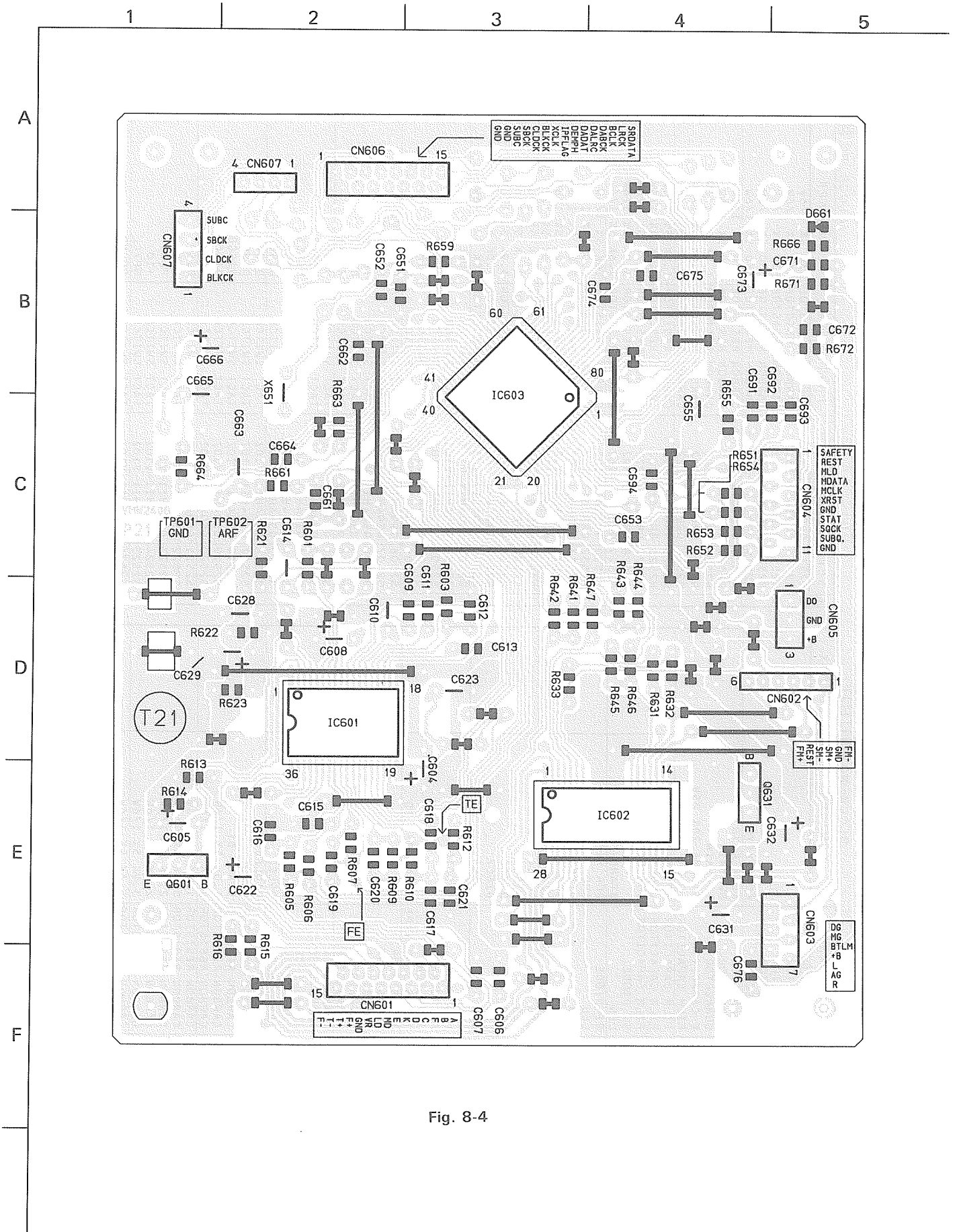


Fig. 8-4

| A | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|-------|---------------|-----------------|-----------------|--------|
| | C 604 | QEK51AM-107 | E CAPACITOR | 100MF 20% 10V | |
| | C 605 | QET41EM-106 | E CAPACITOR | 10MF 20% 25V | |
| | C 606 | QCB1HK-102Y | C CAPACITOR | 1000PF 10% 50V | |
| | C 607 | QCB1HK-102Y | C CAPACITOR | 1000PF 10% 50V | |
| | C 608 | QET41HM-105 | E CAPACITOR | 1.0MF 20% 50V | |
| | C 609 | QCB1HK-101Y | C CAPACITOR | 100PF 10% 50V | |
| | C 610 | QFLC1HJ-273ZM | M CAPACITOR | .022MF 5% 50V | |
| | C 611 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C 612 | QCXB1CM-103Y | C CAPACITOR | .010MF 20% 16V | |
| | C 613 | QCB1HK-331Y | C CAPACITOR | 330PF 10% 50V | |
| | C 614 | QFLC1HJ-104ZM | M CAPACITOR | .10MF 5% 50V | |
| | C 615 | QCHB1E2-223 | C CAPACITOR | .022MF +80:-20% | |
| | C 616 | QCHB1E2-223 | C CAPACITOR | .022MF +80:-20% | |
| | C 617 | QCHB1E2-223 | C CAPACITOR | .022MF +80:-20% | |
| | C 618 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C 619 | QCB1HK-271Y | C CAPACITOR | 270PF 10% 50V | |
| | C 620 | QCS11HJ-470 | C CAPACITOR | 47PF 5% 50V | |
| | C 621 | QCB1HK-821Y | C CAPACITOR | 820PF 10% 50V | |
| | C 622 | QET41AM-476 | E CAPACITOR | 47MF 20% 10V | |
| | C 623 | QFLC1HJ-104ZM | M CAPACITOR | .10MF 5% 50V | |
| | C 628 | QCC11EM-473V | C CAPA. I.M | .047MF 20% 25V | |
| | C 629 | QET41AM-107 | E CAPACITOR | 100MF 20% 10V | |
| | C 631 | QET41AM-477 | E CAPACITOR | 470MF 20% 10V | |
| | C 632 | QEK51AM-107 | E CAPACITOR | 100MF 20% 10V | |
| | C 651 | QCS11HJ-120 | C CAPACITOR | 12PF 5% 50V | |
| | C 652 | QCS11HJ-150 | C CAPACITOR | 15PF 5% 50V | |
| | C 653 | QCHB1E2-223 | C CAPACITOR | .022MF +80:-20% | |
| | C 655 | QCC11EM-473V | C CAPACITOR | .047MF 20% 25V | |
| | C 661 | QCB1HK-471Y | C CAPACITOR | 470PF 10% 50V | |
| | C 662 | QCHB1E2-223 | C CAPACITOR | .022MF +80:-20% | |
| | C 663 | QFLC1HJ-223ZM | M CAPACITOR | .022MF 5% 50V | |
| | C 664 | QCHB1E2-223 | C CAPACITOR | .022MF +80:-20% | |
| | C 665 | QFV71HJ-334ZM | FILM CAPACITOR | .33MF 5% 50V | |
| | C 671 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C 672 | QCXB1CM-222Y | C CAPACITOR | 2200PF 20% 16V | |
| | C 673 | QET41AM-227 | E CAPACITOR | 220MF 20% 10V | |
| | C 674 | QCHB1E2-223 | C CAPACITOR | .022MF +80:-20% | |
| | C 675 | QCB1HK-102Y | C CAPACITOR | AG-DG | |
| | C 676 | QCB1HK-102Y | C CAPACITOR | AG-DG | |
| | C 691 | QCB1HK-151Y | C CAPACITOR | DENGEN NOISE | |
| | C 692 | QCB1HK-151Y | C CAPACITOR | DENGEN NOISE | |
| | C 693 | QCB1HK-151Y | C CAPACITOR | DENGEN NOISE | |
| | CN601 | EMV7144-015R | 15PIN CONNECTOR | TO RF | |
| | CN602 | EMV5109-006A | 6P PLUG ASSY | TO MOTOR | |
| | CN603 | VMC0163-R07 | 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 | |
| | IC602 | BA6897FP | IC | DRIVER | |
| | IC603 | MN55510 | IC | 1CHIP PROCESSER | |
| | Q 601 | 2SA952(L,K) | TRANSISTOR | | |
| | Q 631 | 2SA952(L,K) | TRANSISTOR | | |
| | R 601 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| | R 603 | QRD161J-125 | CARBON RESISTOR | 1.2M 5% 1/6W | |

| A | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|-------|--------------|-----------------|--------------|--------|
| | R 605 | QRD167J-134 | CARBON RESISTOR | 130K 5% 1/6W | |
| | R 606 | QRD161J-913 | CARBON RESISTOR | 91K 5% 1/6W | |
| | R 607 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| | R 609 | QRD161J-114 | CARBON RESISTOR | 110K 5% 1/6W | |
| | R 610 | QRD161J-154 | CARBON RESISTOR | 150K 5% 1/6W | |
| | R 612 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R 613 | QRD161J-121 | CARBON RESISTOR | 120 5% 1/6W | |
| | R 614 | QRD161J-100 | CARBON RESISTOR | 10 5% 1/6W | |
| | R 615 | QRD161J-120 | CARBON RESISTOR | 12 5% 1/6W | |
| | R 616 | QRD161J-910Y | CARBON RESISTOR | 91.5% 1/6W | |
| | R 621 | QRD161J-680 | CARBON RESISTOR | 68 5% 1/6W | |
| | R 622 | QRD161J-680 | CARBON RESISTOR | 68 5% 1/6W | |
| | R 623 | QRD161J-680 | CARBON RESISTOR | 68 5% 1/6W | |
| | R 631 | QRD161J-351 | CARBON RESISTOR | 350 5% 1/6W | |
| | R 632 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| | R 633 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| | R 641 | QRD161J-563 | CARBON RESISTOR | 56K 5% 1/6W | |
| | R 642 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| | R 643 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| | R 644 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R 645 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R 646 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| | R 647 | QRD167J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| | R 651 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R 652 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R 653 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R 654 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R 655 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | R 659 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | R 661 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| | R 663 | QRD161J-124 | CARBON RESISTOR | 120K 5% 1/6W | |
| | R 664 | QRD161J-681 | CARBON RESISTOR | 680 5% 1/6W | |
| | R 666 | QRD161J-220 | CARBON RESISTOR | 22 5% 1/6W | |
| | R 671 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R 672 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | X 651 | VCX5016-934V | CRYSTAL | 16.9344MHZ | |

9 Exploded View of Enclosure Assembly ■ Speaker section

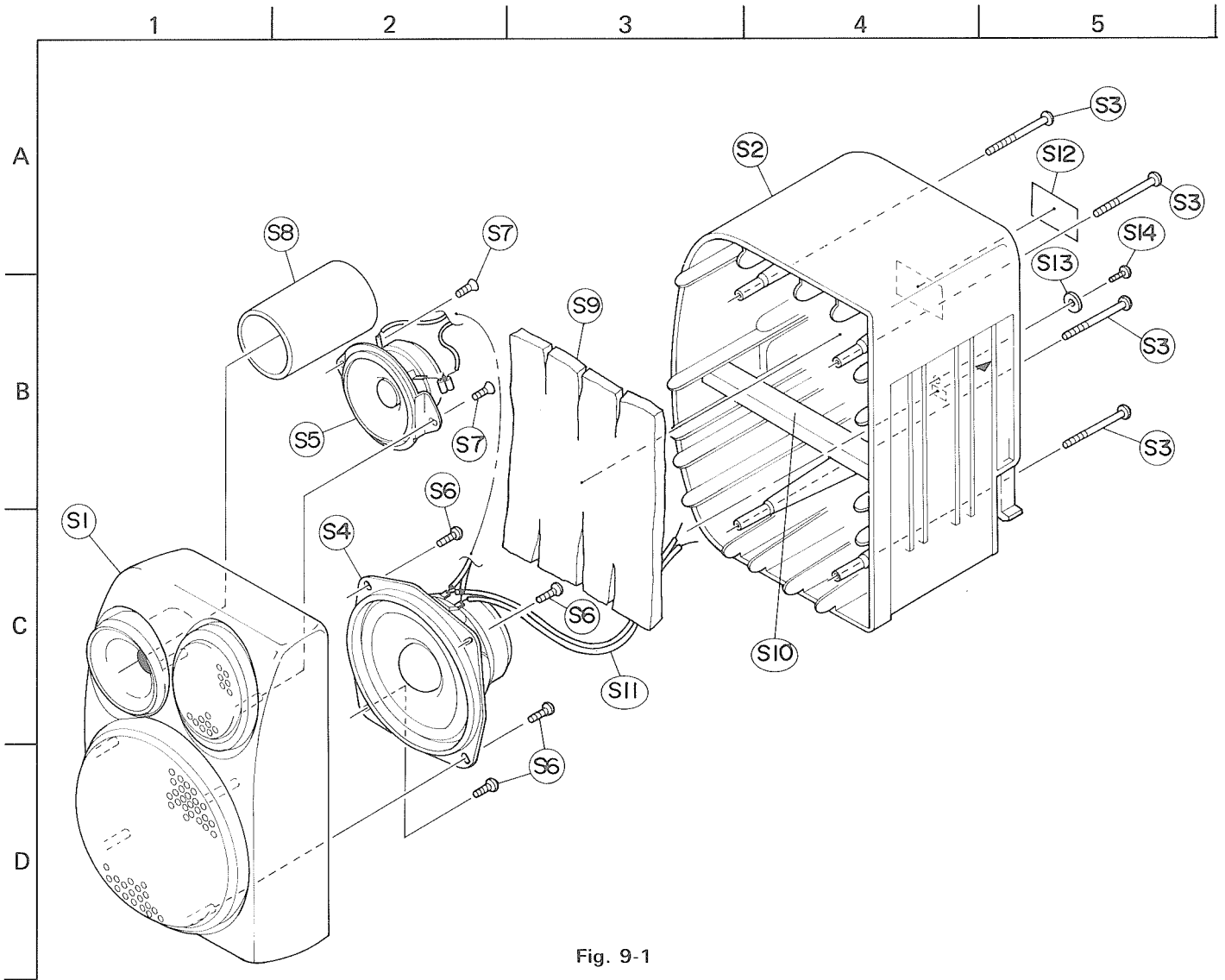


Fig. 9-1

● Speaker section parts list

BLOCK NO. M4MM

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|---------------|-----------------|----------------|-----|--------|-----|
| S | 1 | VJC2569-00A | F.PANEL ASSY(L) | | 1 | | |
| | | VJC2570-00A | F.PANEL ASSY(R) | | 1 | | |
| S | 2 | VJG1289-002 | SP R.CABINET(L) | | 1 | | |
| | | VJG1290-003 | SP.R.CABINET(R) | | 1 | | |
| S | 3 | SBSF3035Z | SCREW | F.PANEL+R.CAB | 4 | | |
| S | 4 | VGS1201-012 | SPEAKER | WOOFER | 1 | | |
| S | 5 | VGS0501-007 | SPEAKER | TWEETER | 1 | | |
| S | 6 | GBSF3010Z | TAPPING SCREW | FOR WOOFER SP | 4 | | |
| S | 7 | SSSF3010Z | SCREW | FOR TWEETER SP | 2 | | |
| S | 8 | VKZ4778-001 | DUCT | | 1 | | |
| S | 9 | VKZ4742-001 | SOUND ABSORBER | | 1 | | |
| S | 10 | VYH7914-001 | STAY | | 1 | | |
| S | 11 | VMP0040-002T | SPK CORD | FOR SPEAKER | 1 | | |
| S | 12 | VYN7073-M001B | NAME PLATE | | 1 | | |
| S | 13 | VYSS2R7-006 | SPACER | RIGHT SIDE | 1 | | |
| S | 14 | GBSF3008M | SCREW | RIGHT SIDE | 1 | | |

■ Enclosure assembly section

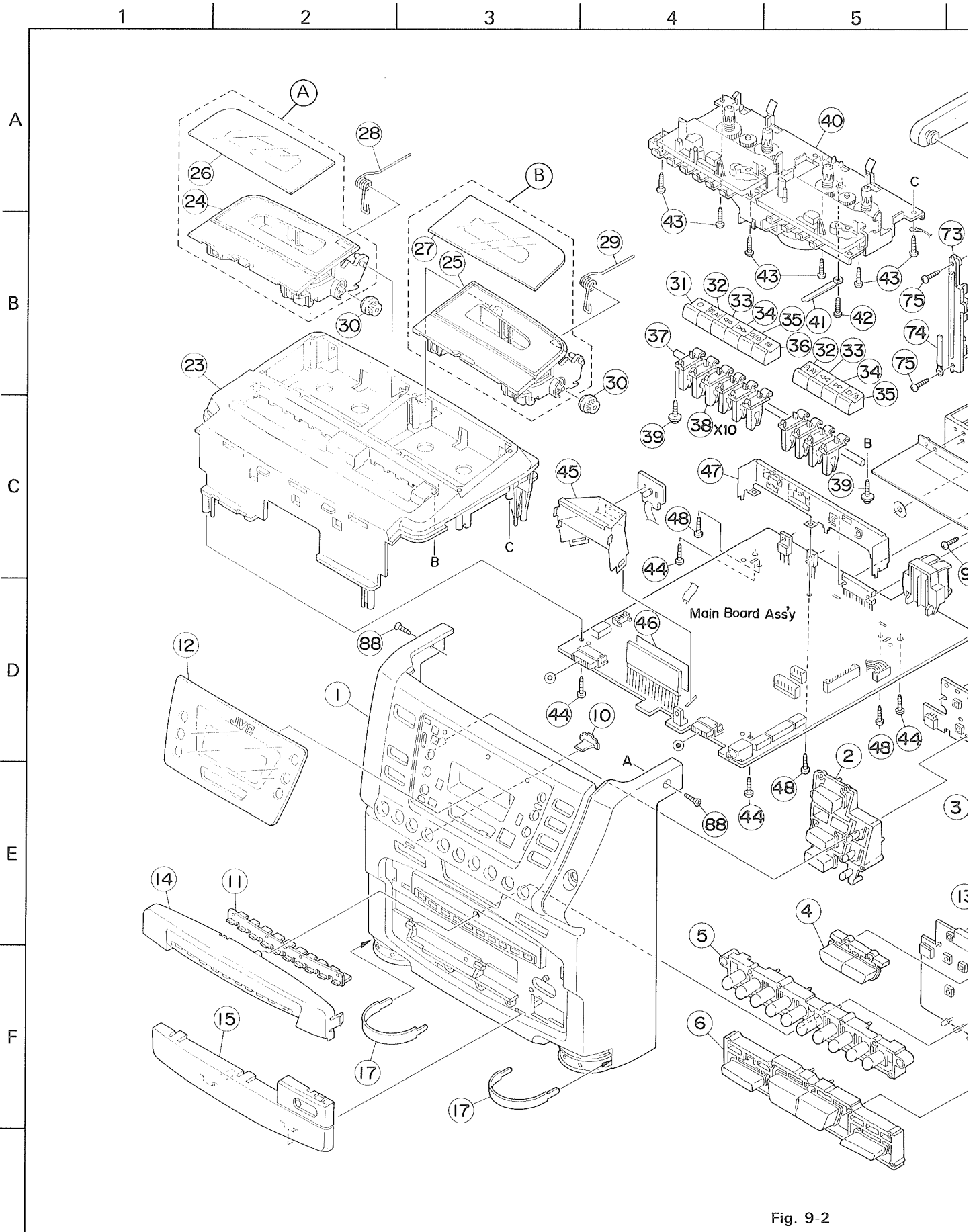
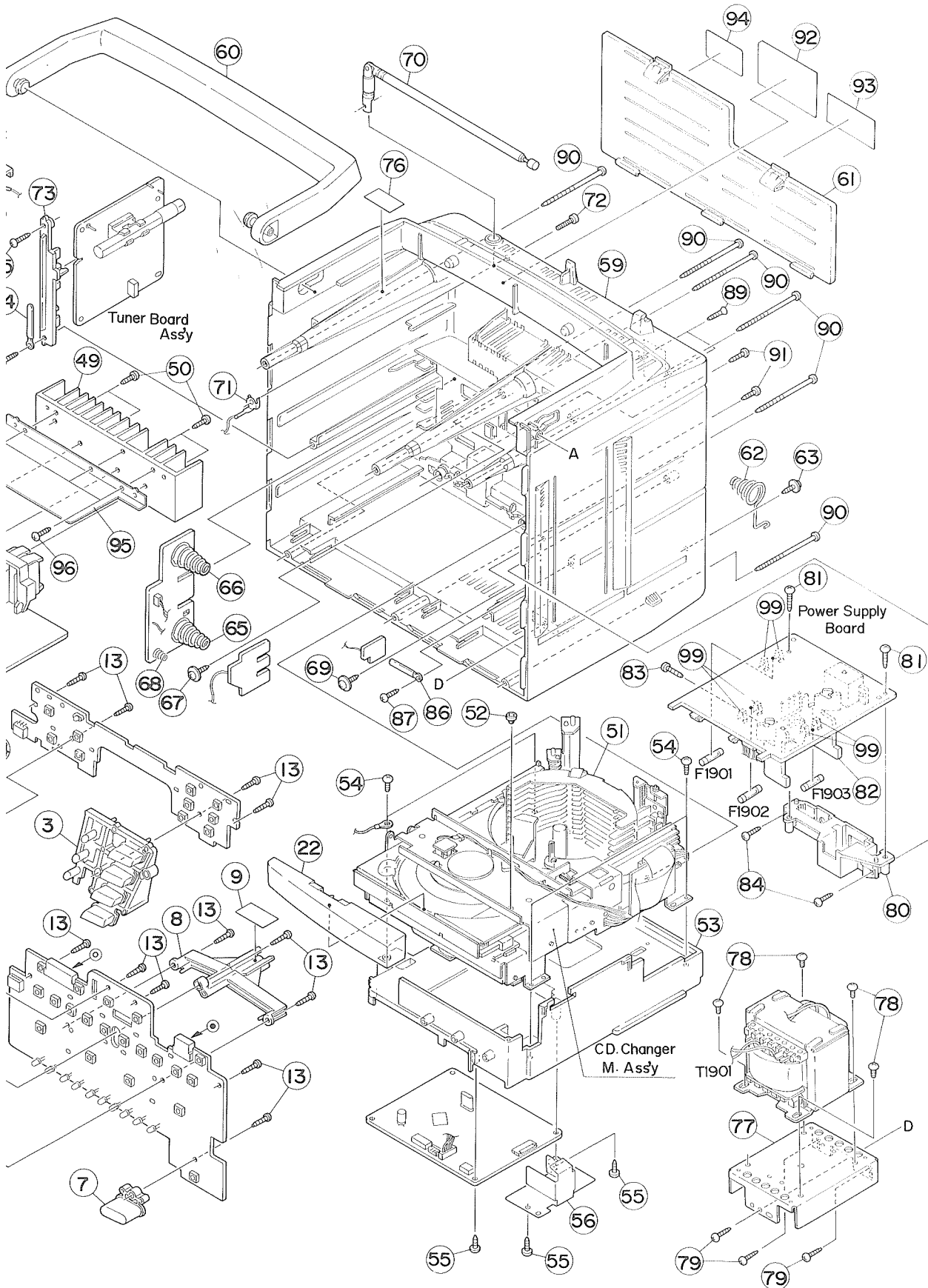
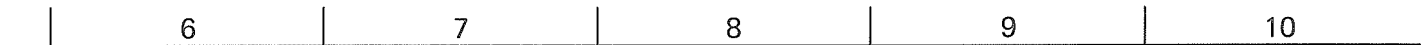


Fig. 9-2



● Enclosure assembly section parts list

BLOCK NO. M3MM

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|---------------|-----------------|-----------------|-----|--------|-----|
| | A | ZCPRXC70K-CBA | C.DOOR ASS'Y(A) | NO.24,26 | 1 | | |
| | B | ZCPRXC70K-CBB | C.DOOR ASS'Y(B) | NO.25,27 | 1 | | |
| | 1 | VJG1406-001UL | FRONT CABINET | | 1 | | |
| | 2 | VXP3790-001 | PUSH BUTTON(A) | POWER | 1 | | |
| | 3 | VXP3791-001 | PUSH BUTTON(B) | BAND SEARCH | 1 | | |
| | 4 | VXP5331-001 | PUSH BUTTON(C) | | 1 | | |
| | 5 | VXP3792-001 | PUSH BUTTON(D) | | 1 | | |
| | 6 | VXP3793-001 | PUSH BUTTON(E) | VOLUME/AHB | 1 | | |
| | 7 | VXP5332-001 | EJECT BUTTON | | 1 | | |
| | 8 | VYH3928-001 | FRONT HOLDER | | 1 | | |
| | 9 | VYSA1R4-076 | SPACER | | 1 | | |
| | 10 | VJK4481-001 | AHB LENS | | 1 | | |
| | 11 | VJK3690-001 | INDICATER LENS | | 1 | | |
| | 12 | VJD3996-001 | LCD LENS | | 1 | | |
| | 13 | SBSF2610Z | SCREW | F.CAB+SW PWB | 12 | | |
| | 14 | VJD3997-001 | FRONT COVER(A) | | 1 | | |
| | 15 | VJD3998-001 | FRONT COVER(B) | | 1 | | |
| | 16 | SBSF2610Z | SCREW | | 1 | | |
| | 17 | VJD5483-002 | FOOT PLATE | | 2 | | |
| | 22 | VJE3002-001 | TRAY FITTING | | 1 | | |
| | 23 | VJG1409-001UL | TOP COVER | | 1 | | |
| | 24 | VJT2370-001 | CASSETTE DOOR L | | 1 | | |
| | 25 | VJT2370-002 | CASSETTE DOOR R | | 1 | | |
| | 26 | VJT4232-001 | DOOR LENS L | | 1 | | |
| | 27 | VJT4233-001 | DOOR LENS R | | 1 | | |
| | 28 | VKW5218-001 | DOOR SPRING | | 1 | | |
| | 29 | VKW5230-001 | DOOR SPRING (R) | | 1 | | |
| | 30 | VYH7366-001MM | GEAR | | 2 | | |
| | 31 | VXP2116-001 | MECHA BUTTON | REC | 1 | | |
| | 32 | VXP2116-002 | MECHA BUTTON | PLAY | 2 | | |
| | 33 | VXP2116-003 | MECHA BUTTON | REW | 2 | | |
| | 34 | VXP2116-004 | MECHA BUTTON | FF | 2 | | |
| | 35 | VXP2116-005 | MECHA BUTTON | STOP/EJECT | 2 | | |
| | 36 | VXP2116-006 | MECHA BUTTON | PAUSE | 1 | | |
| | 37 | VYH7877-001 | SHAFT | | 1 | | |
| | 38 | VYH7883-002 | BUTTON LEVER | | 10 | | |
| | 39 | E65923-001 | TAPPING SCREW | | 2 | | |
| | 40 | ----- | CASSETTE MECHA | VDL7073-001M | 1 | | |
| | 41 | VKZ4001-111 | WIRE HOLDER | TO CASS MECHA | 1 | | |
| | 42 | SBST3006Z | SCREW | FOR WIRE HOLDER | 1 | | |
| | 43 | SBSF3010Z | SCREW | TOP+MECHA | 6 | | |
| | 44 | SBSF3010Z | SCREW | TOP+ MAIN PWB | 4 | | |
| | 45 | VYH3926-001 | LCD HOLDER | | 1 | | |
| | 46 | VYH8059-001 | SHEET | | 1 | | |
| | 47 | VYH3921-001 | IC HOLDER | | 1 | | |
| | 48 | SBST3006Z | SCREW | IC HOLDER+PWB | 3 | | |
| | 49 | VYH3892-004 | HEAT SINK(AMP) | | 1 | | |
| | 50 | SBST3012Z | SCREW | HEAT SINK+IC HO | 4 | | |
| | 51 | ----- | CHANGER MECHA | | 1 | | |
| | 52 | VKS5503-001 | GUIDE PIN | CHANGER MECHA | 1 | | |
| | 53 | VYH1259-001 | CHG MECHA STAND | | 1 | | |
| | 54 | SBSF3010Z | SCREW | CHG MECHA+STAND | 4 | | |
| | 55 | SBSF3010Z | SCREW | CD AMP PWB+STAN | 3 | | |
| | 56 | VMA4699-001 | SHIELD | CD AMP PWB | 1 | | |
| | 59 | VJG1403-001UL | REAR CABINET | | 1 | | |

BLOCK NO. M3MM

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|-------|-----------------|-----------------|-----------------|-----|--------|-----|
| 60 | VJH2016-002 | HANDLE | | 1 | | |
| 61 | VJC2566-001 | BATTERY COVER | | 1 | | |
| 62 | VYH5657-008 | BATTERY SPRING | | 1 | | |
| 63 | E65923-004 | TAPPING SCREW | FOR BATT SPRING | 1 | | |
| 65 | VYH5483-001 | BATTERY SPRING | ON BAT.PWB1 R20 | 1 | | |
| 66 | VYH5483-004 | BATTERY SPRING | | 1 | | |
| 67 | E65923-001 | TAPPING SCREW | FOR BAT.PWB2 R2 | 1 | | |
| 68 | VYH7199-001 | BATTERY SPRING | ON BAT.PWB1 ,R6 | 1 | | |
| 69 | E65923-001 | TAPPING SCREW | FOR BAT.PWB3,R6 | 1 | | |
| 70 | FMJA3001-00A(D) | ROD ANT ASS'Y | | 1 | | |
| 71 | VYH5012-005SS | TERMINAL LUG | FOR ROD ANTENNA | 1 | | |
| 72 | SDSP3016N | SCREW | FOR ROD ANTENNA | 1 | | |
| 73 | VYH8050-001 | TUNER HOLDER | PS COMMON X106 | 1 | | |
| 74 | VKZ4001-111 | WIRE HOLDER | FOR TUNER WIRE | 1 | | |
| 75 | SBSF3014Z | SCREW | FOR TUNER HOL | 2 | | |
| 76 | VYSA1R4-056 | SPACER | FOR ANT WIRE | 1 | | |
| 77 | VYH8063-001 | TRANS BKT. | | 1 | | |
| 78 | SBST4006Z | SCREW | TRANS+TR.BKT | 4 | | |
| 79 | SBSF3010Z | SCREW | TR.BKT SA+R.CAB | 3 | | |
| 80 | VYH3922-001 | AC JACK HOLDER | | 1 | | |
| 81 | SBSF3010Z | SCREW | AC JACK HOL+PWB | 2 | | |
| 82 | VYH8054-001 | HEAT SINK(PRI) | | 1 | | |
| 83 | SBSF3010Z | SCREW | IC + HEAT SINK | 1 | | |
| 84 | SBSF3010Z | SCREW | AC JAC HOL+R.CA | 2 | | |
| 86 | VKZ4001-111 | WIRE HOLDER | FOR BATTERY WIR | 1 | | |
| 87 | SBSF3010Z | SCREW | FOR WIRE HOLDER | 1 | | |
| 88 | SSSF3010M | SCREW | FR+REAR --SIDE | 2 | | |
| 89 | SBSF3010Z | SCREW | SP JACK --REAR | 2 | | |
| 90 | SBSF3050Z | SCREW | FR;REAR --REAR | 6 | | |
| 91 | SBSF3010Z | SCREW | C.M.STAND-RAER | 2 | | |
| 92 | VYN7073-M006T | NAME PLATE | | 1 | | |
| 93 | VND5001-002 | HHS LABEL | | 1 | | |
| 94 | VND5008-001 | FCC LABEL(4) | | 1 | | |
| 95 | VYH8111-001 | HEAT SINK PLATE | | 1 | | |
| 96 | SBSF3010Z | SCREW | | 3 | | |
| 99 | EMG7331-003Z | FUSE CLIP | FOR FUSE | 6 | | |
| F1901 | QMF51N2-R80J1 | FUSE | PRI | 1 | | |
| F1902 | QMF0007-6R3J1 | FUSE | 2ND | 1 | | |
| F1903 | QMF0007-6R3J1 | FUSE | BATT | 1 | | |
| T1901 | VTP66A2-12J | POWER TRANS | | 1 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

10 Exploded View of Mechanism Assembly

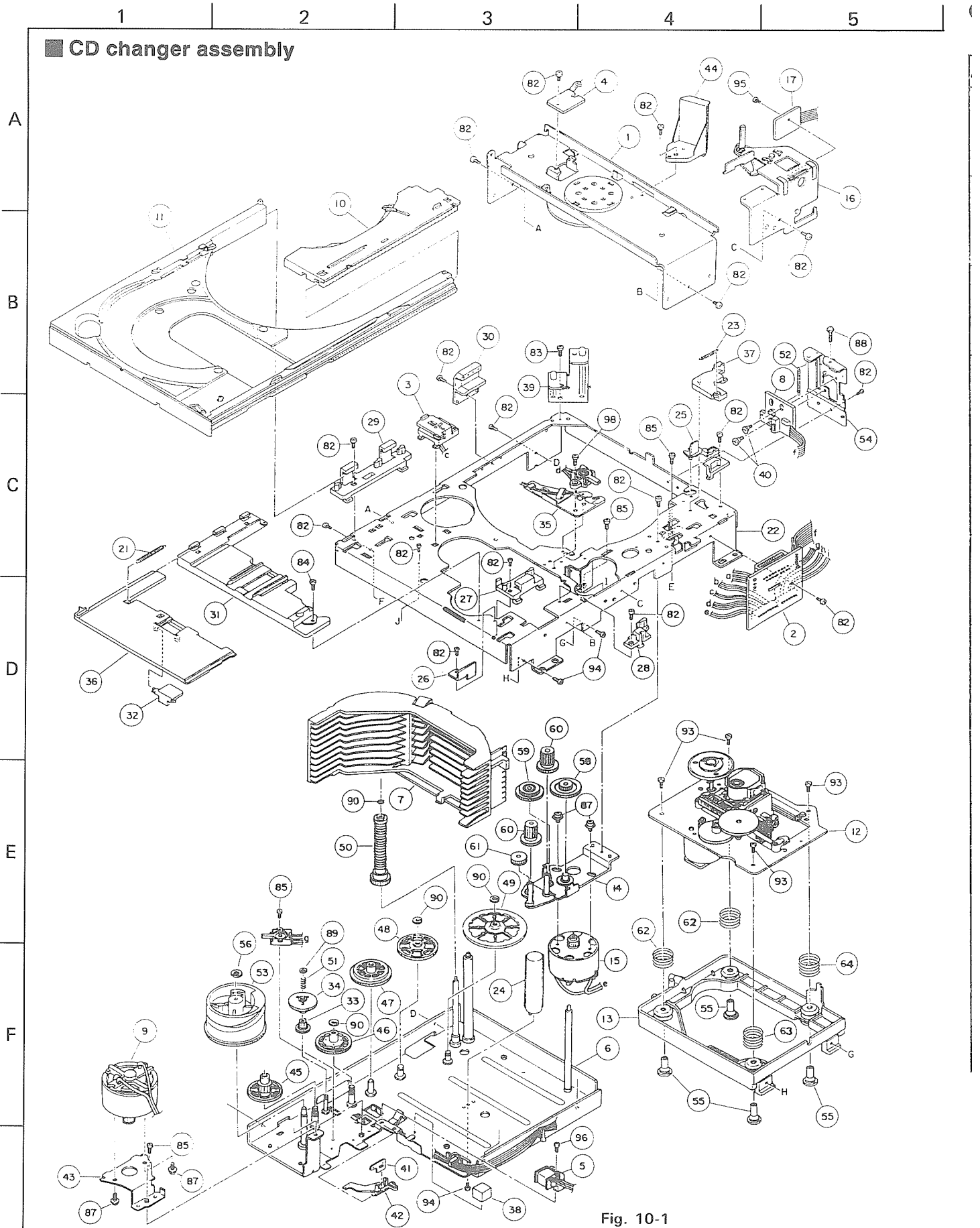


Fig. 10-1

● CD changer assembly parts list

BLOCK NO. M2MM

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|-------------|-----------------|-----------------|-----|--------|-----|
| | 1 | 300701318ZT | CLUMPER BKT ASS | | 1 | | |
| | 2 | ----- | CON.PCB ASS'Y | | 1 | | |
| | 3 | ----- | D.S.PCB ASS'Y(A | | 1 | | |
| | 4 | ----- | D.S.PCB ASS'Y(B | | 1 | | |
| | 5 | 300702317ZT | COIL ASS'Y | | 1 | | |
| | 6 | 300702512ZT | GEAR CHAS.ASS'Y | | 1 | | |
| | 7 | 300702320ZT | DISC CASE ASS'Y | | 1 | | |
| | 8 | ----- | E.S PCB ASS'Y | | 1 | | |
| | 9 | 300702302T | E MOTOR ASS'Y | | 1 | | |
| | 10 | 300706316ZT | L.PLATE ASS'Y | | 1 | | |
| | 11 | 300706317ZT | DISC BASE ASS'Y | | 1 | | |
| | 12 | ----- | TRA.MECHA ASS'Y | | 1 | | |
| | 13 | ----- | T.T.BASE H.ASY. | | 1 | | |
| | 14 | 300711501T | L GEAR BKT.ASY. | | 1 | | |
| | 15 | 300711301T | L MOTOR ASS'Y | | 1 | | |
| | 16 | 300711306ZT | GUIDE PLATE ASY | | 1 | | |
| | 17 | ----- | L SEN.PCB ASY | | 1 | | |
| | 21 | 30070187T | C.PLATE SPRING | COVER PLATE SPR | 1 | | |
| | 22 | 30070185T | CHASSIS | | 1 | | |
| | 23 | 30070144T | L.LEVER SPRING | LOCK LEVER SPR | 1 | | |
| | 24 | 30070179T | DISC STOPPER D | | 1 | | |
| | 25 | 30070186T | GUIDE R4 | | 1 | | |
| | 26 | 30070149T | DISC BASE BKT | | 1 | | |
| | 27 | 30070150T | GUIDE R1(S) | | 1 | | |
| | 28 | 30070151T | GUIDE R2(S) | | 1 | | |
| | 29 | 30070153T | GUIDE L1(S) | | 1 | | |
| | 30 | 30070106T | GUIDE L2(S) | | 1 | | |
| | 31 | 30070155T | COVER PLATE B | | 1 | | |
| | 32 | 30070156T | DISC STOPPER(S) | | 1 | | |
| | 33 | 300702111T | E GEAR G2(P)A | FLOATING | 1 | | |
| | 34 | 30070256T | E GEAR G2(S)B | FLOATING | 1 | | |
| | 35 | 30070184T | SW BASE | | 1 | | |
| | 36 | 30070162T | COVER PLATE A | | 1 | | |
| | 37 | 30070163T | LOCK LEVER | | 1 | | |
| | 38 | 300702116T | CUSHION | | 1 | | |
| | 39 | 30070298T | WORM GEAR BKT | | 1 | | |
| | 40 | 19001204T | COLLAR SCREW | | 2 | | |
| | 41 | 30070296T | E CONTROL PLATE | RF CLUTCH | 1 | | |
| | 42 | 30070292T | E CONTROL LEVER | | 1 | | |
| | 43 | 300702100T | E MOTOR BRACKET | | 1 | | |
| | 44 | 30070175T | GUIDE STOPPER | | 1 | | |
| | 45 | 30070277T | E GEAR G3 | | 1 | | |
| | 46 | 300702122T | E GEAR G5 | | 1 | | |
| | 47 | 30070279T | E GEAR G6 | | 1 | | |
| | 48 | 300702113T | E GEAR G7 | | 1 | | |
| | 49 | 30070293T | E GEAR G8 | | 1 | | |
| | 50 | 300702112T | E GEAR G9 | | 1 | | |
| | 51 | 30070232T | E G.G2 SPRING | E GEAR G2 | 1 | | |
| | 52 | 300702119T | E S.SPRING | E SENSOR | 1 | | |
| | 53 | 300702118T | E GEAR G4 | | 1 | | |
| | 54 | 30070297T | E SENSOR BKT. | | 1 | | |
| | 55 | 30070713T | F.RUBBER HOLDER | | 4 | | |
| | 56 | 9W0250130T | POLY WASHER | | 1 | | |
| | 58 | 30071125T | L GEAR B | | 1 | | |

BLOCK NO. M2MM

| REF. | PARTS NO. | PARTS. NAME | REMARKS | QTY | SUFFIX | CLR |
|------|------------|---------------|-------------|-----|--------|-----|
| 59 | 30071126T | L GEAR C | | 1 | | |
| 60 | 30071105T | L GEAR D | | 2 | | |
| 61 | 30071106T | L GEAR E | | 1 | | |
| 62 | 30070766T | F.SPRING | FLOATING | 2 | | |
| 63 | 30070767T | F.SPRING | FLOATING | 1 | | |
| 64 | 30070768T | F.SPRING | FLOATING | 1 | | |
| 82 | 9P0420041T | SCREW(M2 X 4) | M2X5 | 17 | | |
| 83 | 9B1320041T | SCREW | M2X4 | 1 | | |
| 84 | 9P0420061T | SCREW | M2X6 | 1 | | |
| 85 | 9C2020301T | SPECIAL SCREW | M2X4 | 4 | | |
| 87 | 9P3026221T | CUP SCREW | M2.6X4 | 4 | | |
| 88 | 9P1720102T | SCREW | M2 X 10 | 1 | | |
| 89 | 9W0250080T | WASHER | 2.6X4.5X0.5 | 1 | | |
| 90 | 9W0250110T | WASHER | M2X4 | 3 | | |
| 93 | 9B1220041T | SCREW | 3X6X0.5 | 4 | | |
| 94 | 9P0720061T | P.TAP.SCREW | 2.6X6X0.5 | 3 | | |
| 95 | 9C0320353T | SCREW | 1.85X5X0.5 | 1 | | |
| 96 | 9P0420101T | SCREW | M2X2.5 | 1 | | |
| 98 | 9P0426051T | SCREW | M2X6 | 1 | | |

2 3007 01 306T CONNECTOR PCB ASS'Y

● Connector board ass'y parts list

BLOCK NO. M2MM

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|------|-------------|-----------------|---------------|-----|--------|-----|
| 1 | 30070119T | CONNECTOR BOARD | | 1 | | |
| 2 | 68190503T | CARBON RESISTOR | | 2 | | |
| 3 | VMC0163-R18 | CONN. TERMINAL | | 1 | | |
| 4 | 30071016T | WIRE ASSY(10P) | | 1 | | |
| 5 | 30071015T | WIRE ASSY(7P) | | 1 | | |
| 6 | 64020801T | SLIDE SWITCH | SSCF21015A | 2 | | |
| 7 | 300701309T | DISC SENSOR | BOARD A ASS'Y | 1 | | |
| 8 | 300701302T | DISC SENSOR | BOARD B ASS'Y | 1 | | |

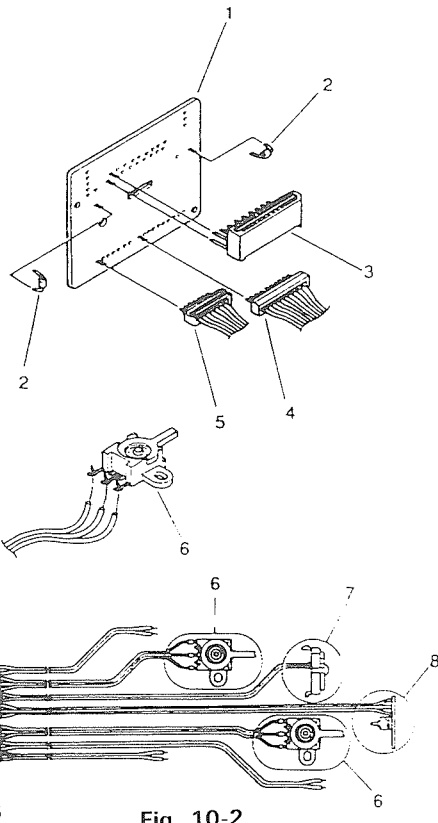


Fig. 10-2

3 3007 01 309T DISC SENSOR PCB A ASS'Y

● Disc sensor board A ass'y parts list

BLOCK NO. M2MM

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|------|-----------|----------------|----------------|-----|--------|-----|
| 1 | 30070124T | PRINTED BOARD | D.SENSOR PCB A | 1 | | |
| 2 | 30070127T | PH.TORANSISTOR | | 1 | | |
| 3 | 30070122T | SENSOR BRACKET | | 1 | | |

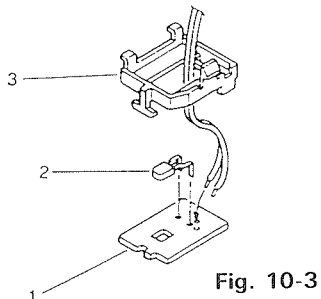


Fig. 10-3

4 3007 01 302T DISC SENSOR PCB B ASS'Y

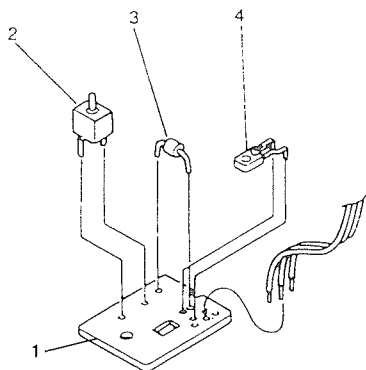


Fig. 10-4

● Disk sensor board B ass'y parts list

| | | BLOCK NO. <u>M2PM</u> <u>111</u> | | | | | |
|--------|-----------|----------------------------------|-----------------|-----|--------|-----|--|
| Δ REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR | |
| 1 | 30070125T | PRINTED BOARD | D. SENSOR PCB B | 1 | | | |
| 2 | 64020412T | LEAF SWITCH | SPPW81 | 1 | | | |
| 3 | 68190503T | CARBON RESISTOR | | 1 | | | |
| 4 | 30070128T | PHOTO DIODE | | 1 | | | |

8 3007 02 319T E SENSOR PCB ASS'Y

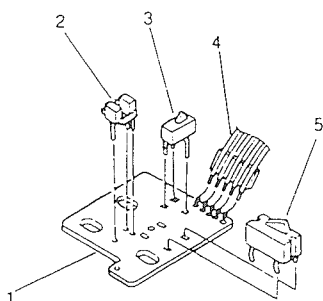


Fig. 10-5

● E sensor board ass'y parts list

| | | BLOCK NO. <u>M2PM</u> <u>111</u> | | | | | |
|--------|------------|----------------------------------|----------------|-----|--------|-----|--|
| Δ REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR | |
| 1 | 300702104T | PRINTED BOARD | E SENSOR PCB W | 1 | | | |
| 2 | 68190801T | PH. INTERAPTOR | SP1-235-18 | 1 | | | |
| 3 | 64010402T | PUSH SWITCH | MPU10160 | 1 | | | |
| 4 | 300710139T | WIRE ASS'Y | | 1 | | | |
| 5 | 64010401T | PUSH SWITCH | MPU10101 | 1 | | | |

17 3007 11 304T L SENSOR PCB ASS'Y

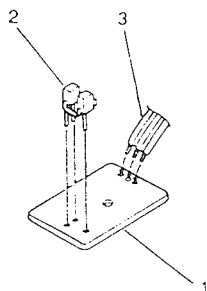


Fig. 10-6

● L sensor board ass'y parts list

| | | BLOCK NO. <u>M8PM</u> <u>111</u> | | | | | |
|--------|-----------|----------------------------------|----------------|-----|--------|-----|--|
| Δ REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR | |
| 1 | 30071116T | PRINTED BOARD | L SENSOR BOARD | 1 | | | |
| 2 | 68190801T | PH. INTERAPTOR | SPI-235-18 | 1 | | | |
| 3 | 30071018T | FLAT WIRE | | 1 | | | |

13 3007 07 317T T.T BASE HOLDER ASS'Y

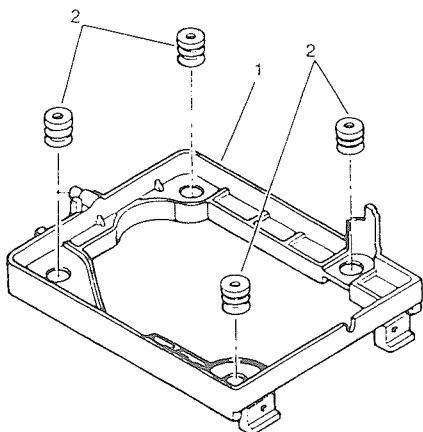


Fig. 10-7

● T. T. base holder parts list

| | | BLOCK NO. <u>M2PM</u> <u>111</u> | | | | | |
|--------|-----------|----------------------------------|---------|-----|--------|-----|--|
| Δ REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR | |
| 1 | 30070761T | BASE HOLDER | | 1 | | | |
| 2 | 30070741T | RUBBER BUSHING | | 4 | | | |

■ Cassette mechanism section

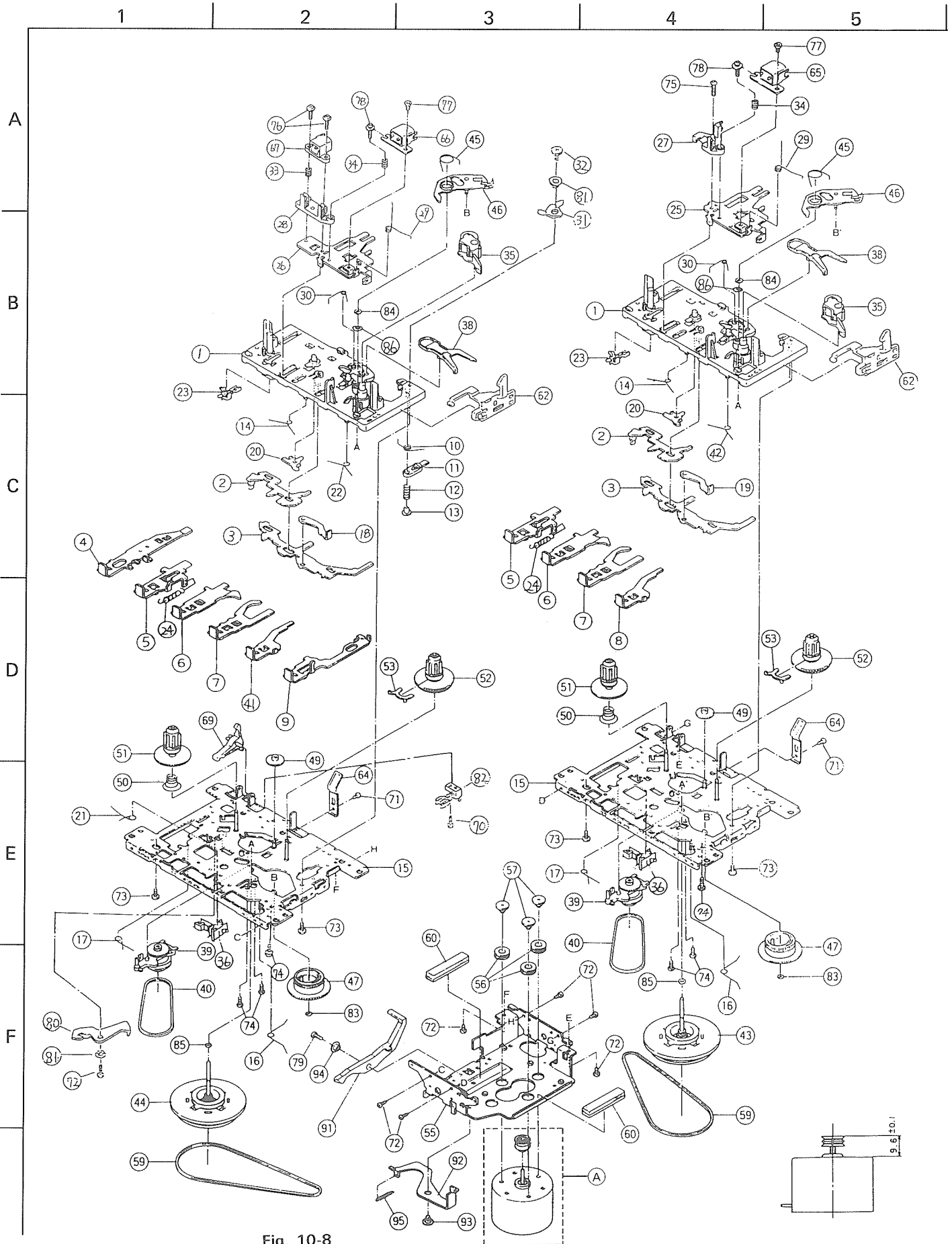


Fig. 10-8

● Cassete mechanism assembly parts list

BLOCK NO. M1MM111

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|------|-------------|-----------------|------------------|-----|--------|-----|
| A | 1921123187T | MOTOR ASS'Y | NO.58,68 | 1 | | |
| 1 | 192114316T | BASE ASS'Y | | 2 | | |
| 2 | 19211409T | SWITCH ACTUATOR | | 2 | | |
| 3 | 19211438T | PUSH B.ACTUATOR | | 2 | | |
| 4 | 19211422T | BUTTON LEVER | REC BUTTON | 1 | | |
| 5 | 19211484T | BUTTON LEVER | PLAY BUTTON | 2 | | |
| 6 | 19211424T | BUTTON LEVER | REW BUTTON | 2 | | |
| 7 | 19211425T | BUTTON LEVER | FF BUTTON | 2 | | |
| 8 | 19211426T | BUTTON LEVER | STOP BUTTON | 1 | | |
| 9 | 19211461T | BUTTON LEVER | PAUSE BUTTON | 1 | | |
| 10 | 19211413T | P CONT. SPRING | | 1 | | |
| 11 | 19211455T | PAUSE LEVER (E) | | 1 | | |
| 12 | 19211412T | SPRING | PAUSE LEVER | 1 | | |
| 13 | 19211411T | PAUSE STOPPER | | 1 | | |
| 14 | 19211414T | TORSION SPRING | BUTTON LEVER | 2 | | |
| 15 | 192101501ZT | CHASSIS ASS'Y | | 2 | | |
| 16 | 19211416T | TORSION SPRING | E.ACTUATER | 2 | | |
| 17 | 19211417T | TORSION SPRING | P.S.LEVER | 2 | | |
| 18 | 19211464T | E KICK LEVER | | 1 | | |
| 19 | 182101159T | E.KICK LEVER | | 1 | | |
| 20 | 19211420T | STOPPER | | 2 | | |
| 21 | 19211421T | TORSION SPRING | REC BUTTON | 1 | | |
| 22 | 19211415T | TORSION SPRING | BUTTON LEVER(C) | 1 | | |
| 23 | MSW-1541T | LEAF SWITCH | MSW-1541T | 2 | | |
| 24 | 18210150T | PLAY BUTTON LEV | | 2 | | |
| 25 | 19210311T | HEAD PANEL | | 1 | | |
| 26 | 19210314T | HEAD PANEL | | 1 | | |
| 27 | 19210304AT | HEAD BASE | | 1 | | |
| 28 | 19210306T | HEAD BASE | | 1 | | |
| 29 | 19210309T | PANEL P SPRING | | 2 | | |
| 30 | 19211418AT | SPRING | M CONTROL | 2 | | |
| 31 | 19211434T | P.ROLLER ARM | | 1 | | |
| 32 | 99992041T | SPECIAL SCREW | M 2 X 3 | 1 | | |
| 33 | 18210308T | SPRING | | 1 | | |
| 34 | 18210307T | AZIMUTH SPRING | | 2 | | |
| 35 | 192104309T | P.ROLL. ARM ASY | | 2 | | |
| 36 | 640101161T | LEAF SWITCH | MSW-17820MVDO | 2 | | |
| 38 | 19212604TT | SENSING LEVER | | 2 | | |
| 39 | 192107308T | RF CLUTCH ASS'Y | | 2 | | |
| 40 | 18210711T | RF.BELT | | 2 | | |
| 41 | 19211466T | BUTTON LEVER | | 1 | | |
| 42 | 19211433T | TORSION SPRING | | 1 | | |
| 43 | 192109304ZT | FLYWHEEL ASS'Y | PB MECHA.(B) | 1 | | |
| 44 | 192109303ZT | FLYWHEEL ASS'Y | REC/PB MECHA.(A) | 1 | | |
| 45 | 19212605T | TORSION SPRING | GEAR PLATE | 2 | | |
| 46 | 192126502ZT | GEAR PLATE ASSY | | 2 | | |
| 47 | 19212602T | CAM GEAR | | 2 | | |
| 49 | 18211070T | F.FORWARD GEAR | | 2 | | |
| 50 | 18211099T | BACK T.SPRING | | 2 | | |
| 51 | 192105304T | S. REEL ASS'Y | SUPPLY | 2 | | |
| 52 | 192105303T | T. REEL ASS'Y | TAKE-UP | 2 | | |
| 53 | 19210506T | SENSOR | | 2 | | |
| 55 | 19211211T | MOTOR BRACKET | | 1 | | |
| 56 | 18211266T | MOTOR RUBBER | | 3 | | |

BLOCK NO. M1MM 11

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|------|-------------|-----------------|---------------|-----|--------|-----|
| 57 | 18511418T | COLLAR SCREW | | 3 | | |
| 58 | ----- | MOTOR PULLEY | | 1 | | |
| 59 | 19210923T | MAIN BELT | | 2 | | |
| 60 | 19211212T | MAT | | 2 | | |
| 62 | 19211301T | EJ. SLIDE LEVER | EJECT | 2 | | |
| 64 | 18291001T | PACK SPRING | | 2 | | |
| 65 | MS15R-AA2N1 | R/P HEAD | | 1 | | |
| 66 | MS15R-AA2N1 | R/P HEAD | | 1 | | |
| 67 | 62021419T | E.HEAD | | 1 | | |
| 68 | ----- | MOTOR | EG530YD-9BH | 1 | | |
| 69 | 18211069T | REC.SAF.LEVER | | 1 | | |
| 70 | 91810000T | SCREW | M2 X 5 | 1 | | |
| 71 | 91790000T | TAPPING SCREW | M2 X 3 | 2 | | |
| 72 | 91800000T | SCREW | M2 X 4 | 7 | | |
| 73 | 96790000T | TAPPING SCREW | M2 X 5 | 4 | | |
| 74 | 99991809T | SPECIAL SCREW | M2 X 4.5 | 6 | | |
| 75 | 90040000T | SCREW(M2 X 6) | M2 X 6 | 1 | | |
| 76 | 92230000T | SCREW | | 2 | | |
| 77 | 91150000T | SCREW(M2 X 3) | M2 X 3 | 2 | | |
| 78 | 99220000T | SCREW(M2 X 7) | M2 X 7 | 2 | | |
| 79 | 9P0420061T | SCREW | M2 X 6 | 1 | | |
| 80 | 19210201T | REC ARM | | 1 | | |
| 81 | 19211437T | P ARM COLLAR | | 2 | | |
| 82 | 64010138T | LEAF SWITCH | MSW-1275 | 1 | | |
| 83 | 94220000T | POLY WASHER | 1.2X3.8X0.3 | 2 | | |
| 84 | 99990313T | POLY WASHER | 1.45X3.8X0.5 | 2 | | |
| 85 | 97860000T | POLY WASHER | 2 X 3.5 X 0.3 | 2 | | |
| 86 | 99990003T | POLY WASHER | 2.1X4X 0.13 | 2 | | |
| 91 | 19211209T | P.KICK LEVER(B) | | 1 | | |
| 92 | 18211268T | P.KICK LEVER | | 1 | | |
| 93 | 18211223T | COLLAR SCREW | | 1 | | |
| 94 | 18211265T | COLLAR (B) | | 1 | | |
| 95 | 18211225T | SPRING | | 1 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

■ CD mechanism section

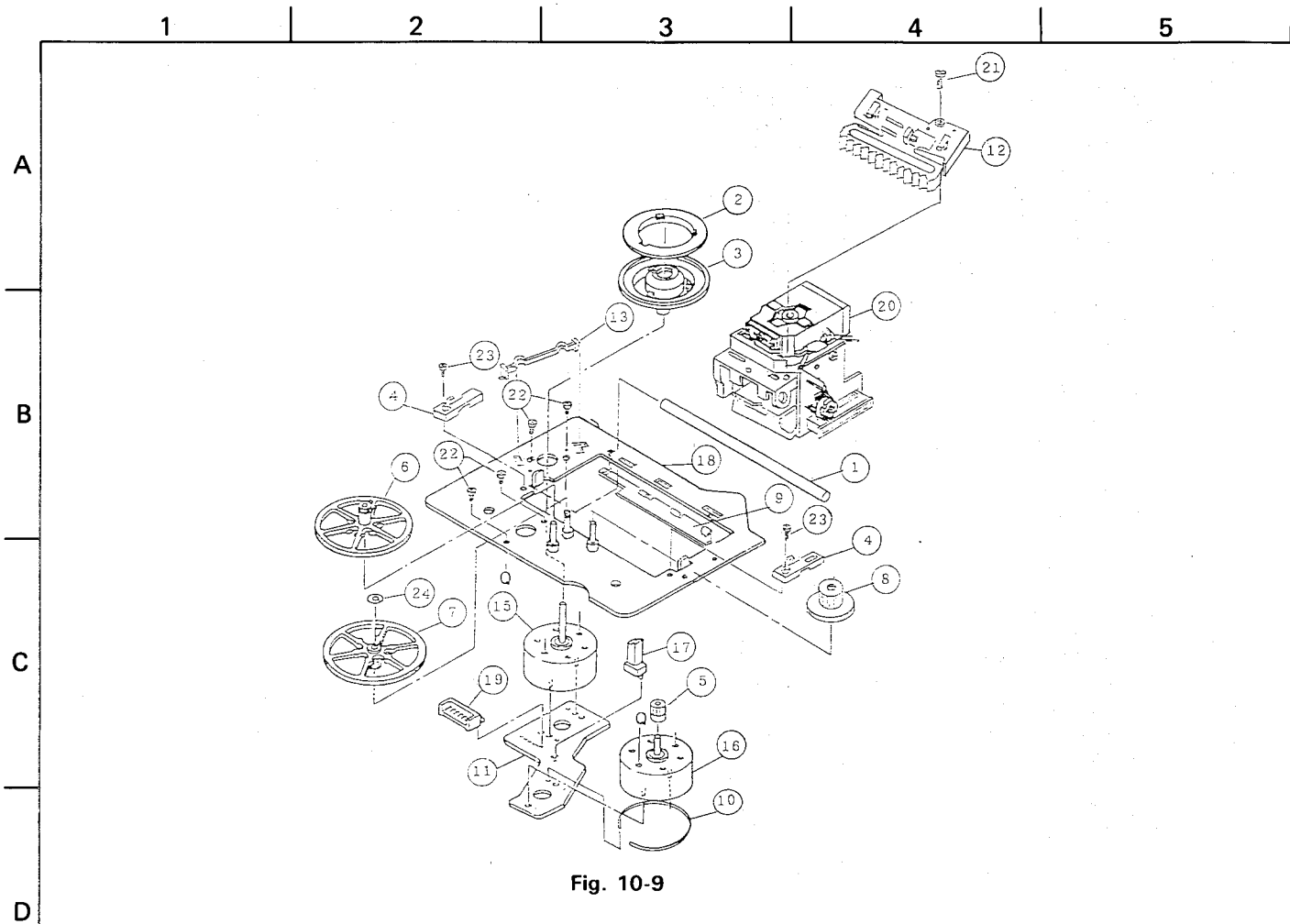


Fig. 10-9

● CD mechanism parts list

BLOCK NO. M7MM

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|-------------|----------------|---------|-----|--------|-----|
| | 1 | 30020712T | PU.SHAFT | | 1 | | |
| | 2 | 30050713T | T.T.PLATE | | 1 | | |
| | 3 | 30070760T | TURN TABLE | | 1 | | |
| | 4 | 300707502T | T.T.BASE ASS'Y | | 1 | | |
| | 5 | 30070726T | CD GEAR A | | 1 | | |
| | 6 | 30070727T | CD GEAR B | | 1 | | |
| | 7 | 30070728T | CD GEAR C | | 1 | | |
| | 8 | 30070729T | CD GEAR D | | 1 | | |
| | 9 | 30070730T | PU SUPPORT | | 1 | | |
| | 10 | 30070739T | TENSION ARM | | 1 | | |
| | 11 | 30070746T | EARTH SPRING | | 1 | | |
| | 12 | 30070764T | SHAFT HOLDER | | 2 | | |
| | 13 | 30070751T | PRINTED PCB | | 1 | | |
| | 14 | 60020902T | SPINDLE MOTOR | | 1 | | |
| | 15 | 60020903T | GEAR MOTOR | | 1 | | |
| | 16 | 640101195T | LEAF SWITCH | | 1 | | |
| | 17 | 68020264T | CONNECTOR | | 1 | | |
| | 18 | 9B1220061T | SCREW | | 1 | | |
| | 19 | 9C0120253T | SCREW | | 4 | | |
| | 20 | 9P0420061T | TAPPING SCREW | | 2 | | |
| | 21 | 9W0640070T | WASHER | | 1 | | |
| | 22 | E307746-001 | CD RACK | | 1 | | |
| | 23 | OPT1MA-6S | PICK-UP UNIT | | 1 | | |

11 Illustration of Packing and Parts List

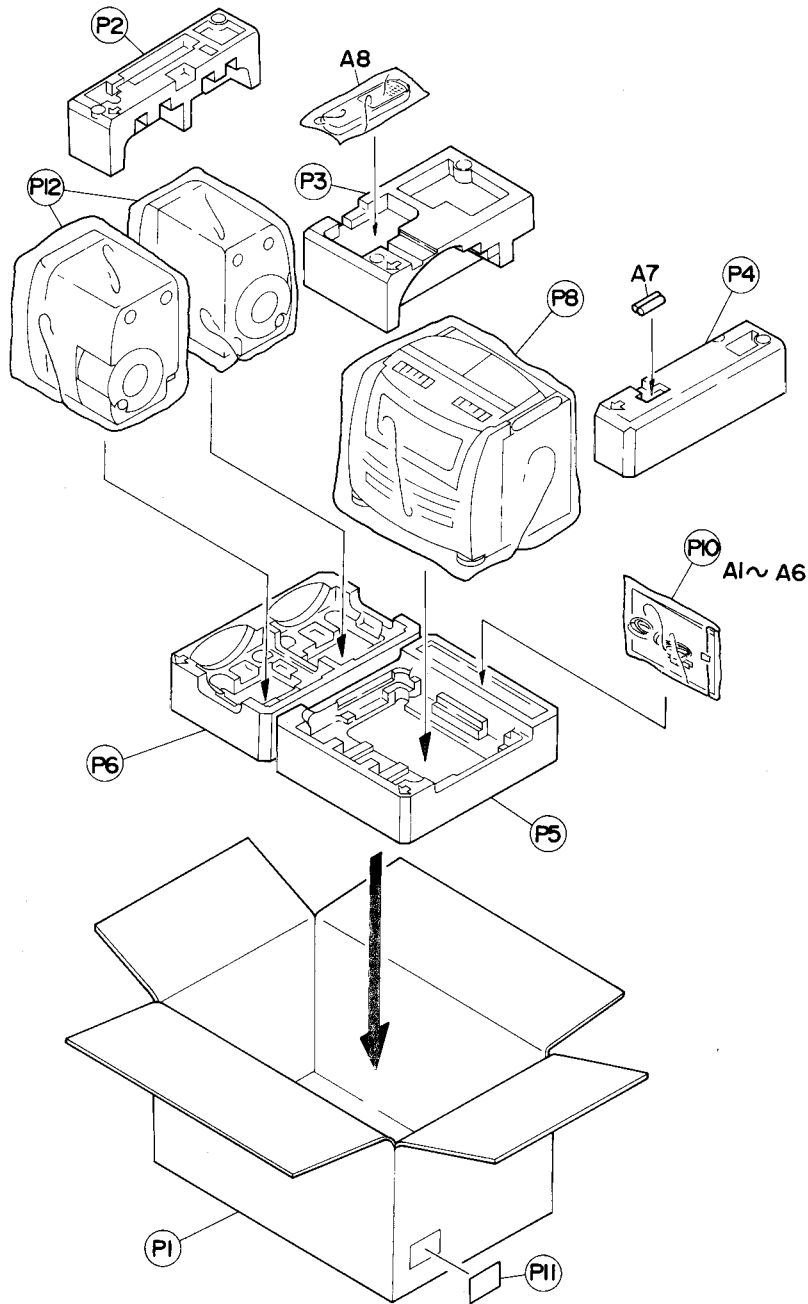


Fig. 11-1

● Packing parts list

BLOCK NO. M5MM

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|--------------|-----------------|-----------------|-----|--------|-----|
| P | 1 | VPC7073-M001 | CARTON | | 1 | | |
| P | 2 | VPH1688-001 | CUSHION(U.L) | | 1 | | |
| P | 3 | VPH1688-002 | CUSHION(U.C) | | 1 | | |
| P | 4 | VPH1688-003 | CUSHION(U.R) | | 1 | | |
| P | 5 | VPH1688-004 | CUSHION(BOTTOM) | | 1 | | |
| P | 6 | VPH1692-001 | CUSHION(SP.BOT) | FOR SPEAKER BOT | 1 | | |
| P | 8 | VPE3026-005 | POLY BAG | FOR RECEIVER | 1 | | |
| P | 10 | VPE3005-007 | POLY BAG | INSTRUCTIONS | 1 | | |
| P | 11 | ----- | CARTON LABEL | 046838061325 | 1 | | |
| P | 12 | VPE3026-002 | POLY BAG | FOR SP ASS'Y | 2 | | |

● Accessores parts list

BLOCK NO. M6MM | | | |

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|---|------|--------------|-----------------|------------|-----|--------|-----|
| △ | A 1 | VNN7073-611M | INSTRUCTIONS | | 1 | | |
| △ | A 2 | BT-20044G | SAFETY INST. | | 1 | | |
| | A 3 | BT-20047F | WARRANTY CARD | | 1 | J | |
| | | BT-52002-1 | WARRANTY CARD | | 1 | C | |
| | A 4 | BT-20137 | SVC CENTER LIST | | 1 | J | |
| | | BT-20071B | SVC CENTER LIST | | 1 | C | |
| △ | A 6 | QMP1F00-183 | POWER CORD | SPT-2 | 1 | | |
| | A 7 | R6SPTT-2STSA | BATTERY | | 1 | | |
| | A 8 | VGR0051-001 | REMO-CON UNIT | RM-RXP1070 | 1 | | |



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