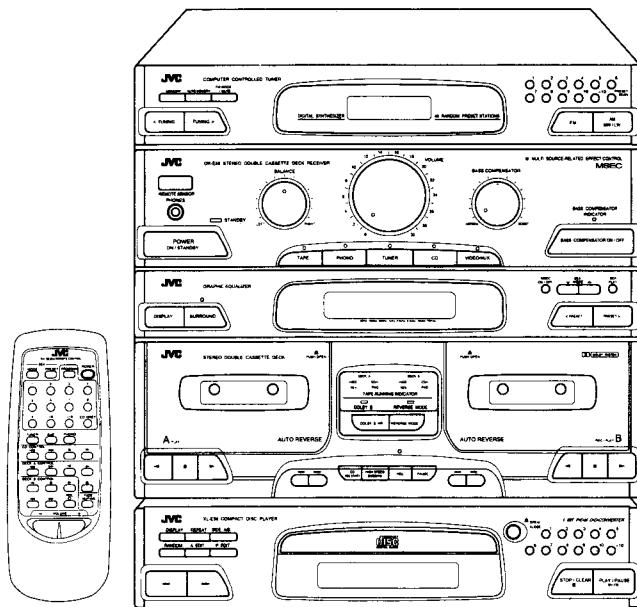


JVC

SERVICE MANUAL

DR-E58BK
DR-E59TN



COMPACT
disc
DIGITAL AUDIO

* DR-E58BK and DR-E59TN are nearly equal units ,except for their outlook color .

Contents

Safety Precautions	1-2	Adjustment Procedures(Deck)	1-48
Instruction Book	1-3	Alignment Procedures(Tuner)	1-51
Description of ICs	1-34	Block Diagrams	1-52
Internal Connection for the FL Display Tube ...	1-44	Schematic Diagrams	Insetio n
Disassembly Procedures	1-46	Printed Circuit Boards	Insetio n
		Parts List	Separate-volume Insetio n

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
Do not use a line isolation transformer during this check.

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

- Alternate check method

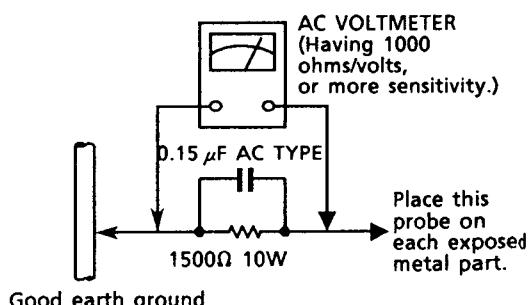
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a $1,500\Omega$ 10 W resistor paralleled by a $0.15 \mu F$ AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor.

Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



Warning

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

Note:

- Pre-recorded tapes, records or discs should not be re-recorded without the consent of the owners of the copyright of the sound recording and of any copyright musical or literary work embodied in that recording as this constitutes an infringement of copyright.

CONTENTS

Important	2
Connection diagram	3
Antennas	5
How to install batteries	8
Operation with the remote control unit	10
Description and functions	12
Operations	16
How to use S.E.A. GRAPHIC	
EQUALIZER CONTROL	16
Listening to broadcasts	17
About discs	20
Listening to discs	21
Listening to tapes, recording, dubbing	23
Recording	24
Dubbing	25
To perform edit recording from CD	27
Maintenance	30
Before calling for service	31
Specifications	32

Nota:

- La grabación o reproducción de material amparado por los derechos de autor, sin el consentimiento de éste, puede ser pena da por la ley.

INDICE

Importante	2
Diagrama de conexiones	3
Antenas	5
Cómo instalar las pilas	8
Utilización del mando a distancia	10
Descripciones y funciones	12
Operaciones	16
Cómo se utiliza el CONTROL DEL ECUALIZADOR GRAFICO S.E.A.	16
Escuchar emisiones de radio	17
Información acerca de los compact discs	20
Para escuchar discos	21
Audición de cintas, grabación, copia	23
Grabación	24
Copia	25
Para realizar la grabación compaginada del CD	27
Mantenimiento	30
Antes de llamar al servicio técnico	31
Especificaciones	32

Opmerking:

- Ongeauthoriseerde opname of weergave kan inbreuk doen op auteursrechten.

INHOUDSOPGAVE

Belangrijk	2
Aansluitingsdiagram	3
Antennes	5
Inleggen van de batterijen	8
Bediening met de afstandsbedienings-eenheid	10
Beschrijving en functies	12
Bediening	16
Gebruik van de S.E.A. GRAFISCHE EQUALIZER	16
Luisteren naar radio-uitzendingen	17
Over CD's	20
Luisteren naar CD's	21
Luisteren naar cassettes, opnemen, kopieren	23
Opnemen	24
Kopieren	25
Gemonteerde opname van een CD	27
Onderhoud	30
Probleemoplossing	31
Technische gegevens	32

IMPORTANT**1. Installation**

- Select a place which is level, dry and neither too hot nor too cold (between 5°C (41°F) and 35°C (95°F)).
- Leave sufficient distance between it and your TV.
- Do not use it in a place subject to vibrations.

2. Power cord

- Do not handle the power cord with wet hands!
- When unplugging from the wall outlet, always pull the plug, not the power cord.

3. Malfunctions, etc.

- There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object.

4. Handling of cassette tapes

- Loose tape may become tangled in the tape transport mechanism. Remove slack by winding the tape with a pencil.
- The use of C-120 or thinner tape is not recommended.
- Do not store cassettes near a TV, on the speakers, near a heater, or where it is dusty or humid.
- To prevent the erasure of recordings, break off the tabs. To record using a cassette whose protective tabs have been removed, block the holes using adhesive tape.

IMPORTANTE**1. Instalación**

- Elija un lugar nivelado, seco y no demasiado caluroso ni frío (entre 5°C y 35°C).
- Deje suficiente distancia entre el sistema y el televisor.
- No lo utilice en un lugar sometido a vibraciones.

2. Cable de alimentación

- No toque el cable con las manos húmedas.
- Al desenchufarlo del tomacorriente, tire siempre de la clavija y nunca del cable mismo.

3. Desperfectos, etc.

- En el interior de la unidad no hay piezas reparables por el usuario. En caso de desperfectos, desenchufe el sistema y consulte con su concesionario.
- No inserte ningún objeto metálico en la unidad.

4. Tratamiento de las cintas de cassette

- Una cinta floja puede enredarse en el mecanismo de transporte. Elimine la flojedad enrollando la cinta con un lápiz.
- No se recomienda el uso de cintas C-120 o más finas.
- No almacene los cassettes donde haya un campo magnético (cerca de un televisor o altavoces, etc.), o en un lugar sometido a altas temperaturas (cerca de un calefactor), humedad o donde haya polvo.
- Para evitar borrados accidentales, rompa las lengüetas protectoras. Para grabar con un cassette cuyas lengüetas hayan sido extraídas, cubra los orificios con cinta adhesiva.

BELANGRIJK**1. Installatie**

- Plaats het toestel in een effen, droge en een niet te hete of te koude (tussen 5°C en 35°C) plaats.
- Houd voldoende afstand tussen dit toestel en het televisietoestel.
- Stel het toestel niet bloot aan trillingen.

2. Netsnoer

- Hanteert het netsnoer niet met natte handen.
- Trek aan de stekker, niet aan het snoer, om de stekker uit het stopcontact te halen.

3. Defekten, enz.

- Binnenin het toestel bevinden zich geen door de gebruiker te repareren onderdelen. Trek de stekker uit het stopcontact en raadpleeg een dealer, indien zich problemen voordoen.
- Steek geen metalen voorwerpen in het toestel.

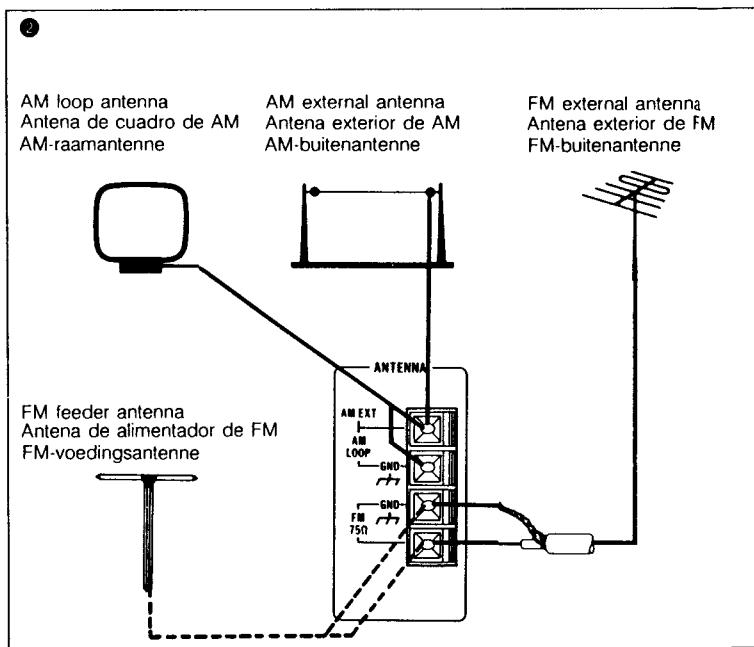
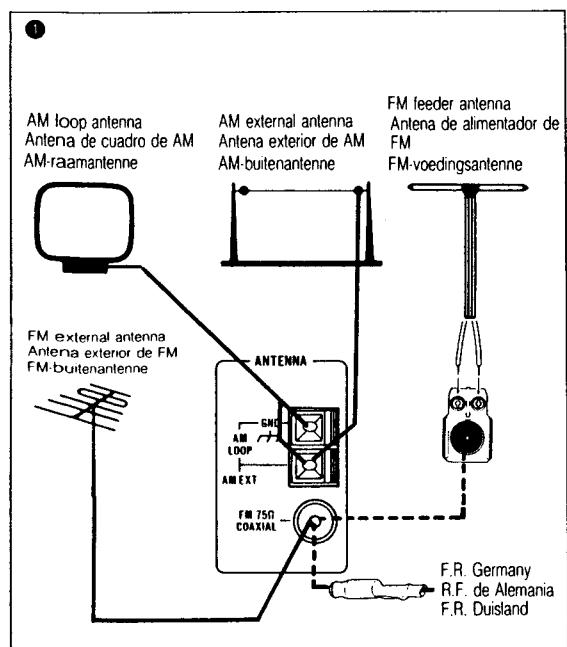
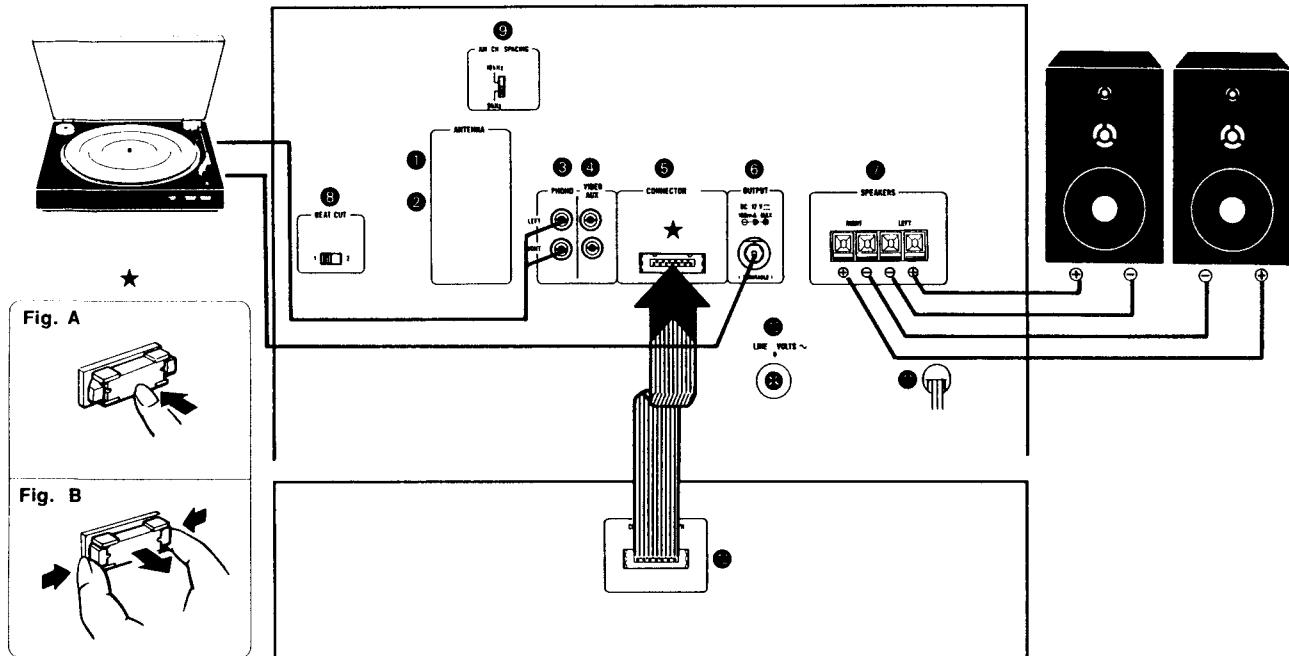
4. Hanteren van cassettes

- Losse tape kan in het transportmechanisme verward raken. Wind eventuele lussen op m.b.v. van een potlood.
- Het gebruik van C-120 tapes is niet aanbevelenswaardig.
- Voorkom dat de cassettes in de buurt van een magnetisch veld (zoals bij een televisietoestel of luidsprekers), in de buurt van een verwarmingstoestel, of in een vochtig of stoffige plek worden geplaatst.
- Verwijder de nokken om abusiefelijk uitroepen van opnames te voorkomen. Bedek de uitsparingen met plakband, vanneer opname gewenst is op een tape, waarvan de wispreventienokken zijn uitgebroken.

CONNECTION DIAGRAM

DIAGRAMA DE CONEXIONES

AANSLUITINGS- DIAGRAM



- ① External ANTENNA terminals
(for U.K., Continental Europe)
- ② External ANTENNA terminals
(for Australia, other area)
- ③ PHONO terminals
- ④ VIDEO/AUX terminals
- ⑤ CONNECTOR
Connect the system connector cord coming out from the CONNECTOR of the CD player.
- ⑥ DC OUTPUT terminal
Connect the proper turntable as indicated at each terminal.
- ⑦ SPEAKERS terminals
- ⑧ BEAT CUT knob
Normally set to "1"
(See Fig. 10, page 7.)
- ⑨ AM channel spacing knob* (See *1, page 15.)
- ⑩ Voltage selector*
When this equipment is used in an area where the supply voltage is different from the preset voltage, reset the voltage selector to the correct position.
* Not provided for the U.K., Australia and Continental Europe.
- ⑪ Power cord
- ⑫ CONNECTOR
Connect to the CONNECTOR on the receiver.
★ To connect system connector cord, refer to Fig. A, and to disconnect it, refer to Fig. B.

Notes:

1. Connect the speaker cords correctly; L to L and R to R.
2. Do not connect power cord before all the connections are completed.
3. Connect plugs or wires firmly. Poor contact may result in hum.
4. Use speakers with the correct impedance. The correct impedance is indicated on the rear panel.
5. When connecting or disconnecting the system connector cord, be sure to disconnect the power cord.

- ① Terminales de antena externa (ANTENNA)
(para Reino Unido, Europa Continental)
- ② Terminales de antena externa (ANTENNA)
(para Australia, otros países)
- ③ Terminales fonográficos (PHONO)
- ④ Terminales VIDEO/AUX
- ⑤ Conector (CONNECTOR)
Conecte el cordón conector del sistema que sale de CONNECTOR del reproductor de CD.
- ⑥ Terminal DC OUTPUT
Conecte el reproductor apropiado como se indica en cada terminal.
- ⑦ Terminales de altavoces (SPEAKERS)
- ⑧ Botón de corte de batidos
Normalmente, déjelo en "1".
(Consulte la Fig. 10 de la página 7.)
- ⑨ Perilla de espaciamiento de canales/AM*
(Consulte *1 de la página 15)
- ⑩ Selector de voltaje*
Cuando use este equipo en un área donde el suministro de voltaje es distinto del voltaje preajustado, vuelva a ajustar el selector de voltaje en la posición correcta.
- No se provee en los equipos para Reino Unido, Australia y Europa Continental.
- ⑪ Cordón de alimentación
- ⑫ Conector (CONNECTOR)
Conecte al CONNECTOR del receptor.
★ Consulte la Fig. A para conectar el cordón conector del sistema, y la Fig. B, para desconectarlo.

Notas:

1. Conecte los cordones de los altavoces correctamente; L a L (izquierdo a izquierdo) y R a R (derecho a derecho).
2. No conecte el cordón de alimentación antes de completar todas las conexiones.
3. Conecte las clavijas y cables firmemente. Un contacto deficiente puede provocar zumbidos.
4. Emplee altavoces con la impedancia correcta, la impedancia correcta está indicada en el panel trasero.
5. Cuando conecte o desconecte el cordón conector del sistema, esté seguro de desconectar el cordón de alimentación.

- ① Buitenantenne-aansluitingen (ANTENNA)
(voor Engeland, Europese vasteland)
- ② Buitenantenne-aansluitingen (ANTENNA)
(voor Australië, andere landen)
- ③ Daaatafelaansluitingen (PHONO)
- ④ VIDEO/AUX aansluitingen
- ⑤ Aansluiting (CONNECTOR)
Verbind het systeembedieningssnoer van de CONNECTOR aansluiting van de CD-speler met deze aansluiting.
- ⑥ DC OUTPUT-aansluit
Gelijkstroomuitgangen (DC OUTPUT)
Sluit op elk van de aansluitingen de bijbehorende geluidsbron aan, zoals aangegeven.
- ⑦ Luidsprekeraansluitingen (SPEAKERS)
- ⑧ BEAT CUT-schakelaar
Zet deze schakelaar gewoonlijk op "1"
(Zie Afb. 10, op blz. 7)
- ⑨ AM-kanaalafstandschaakelaar*
(Zie *1, op blz. 15.)
- ⑩ Spanningskeuzeschakelaar*
Zet de spanningskeuzeschakelaar in de juiste stand, wanneer deze apparatuur gebruikt wordt in een gebied, waar de voedingsspanning verschilt van de voorafgestelde spanning.
- * Toestellen voor Engeland, Australië en het Europese vasteland zijn niet met deze voorziening uitgerust.
- ⑪ Netsnoer
- ⑫ Aansluiting (CONNECTOR)
Verbind met de CONNECTOR aansluiting van de receiver.
- ★ Zie Afb. A voor het aansluiten van het systeembedieningssnoer, en zie Afb. B voor net ontkoppelen.

Opmerkingen:

1. Zorg ervoor, dat de luidsprekersnoeren juist worden aangesloten; L op L en R op R.
2. Steek de stekker van het netsnoer pas in het stopkontakt nadat alle overige aansluitingen zijn gemaakt.
3. Sluit de snoeren en stekkers stevig aan. Slecht kontakt kan in brom resulteren.
4. Gebruik luidsprekers met de juiste impedantie. De juiste impedantie is aangegeven op het achterpaneel.
5. Schakel de spanning uit alvorens het systeembedieningssnoer aan te sluiten of los te koppelen.

ANTENNAS

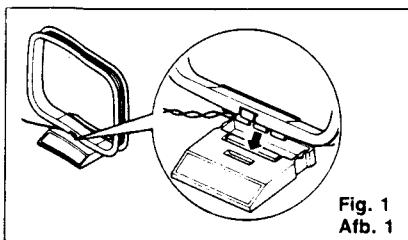


Fig. 1
Afb. 1

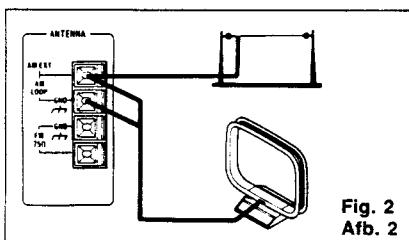


Fig. 2
Afb. 2

ANTENNAS

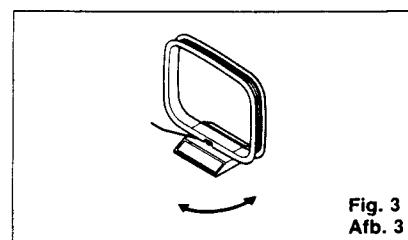


Fig. 3
Afb. 3

AM Antenna

How to fix the loop antenna (Fig. 1)

- Install the antenna by inserting it in the direction of the arrow. (see Fig. 6)
- Place at a distance from the power-source cord, signal cord and metal fixtures on the main body, in a spot where reception is good.

AM (MW/LW) loop antenna (Fig.2)

This antenna is for the reception of local AM broadcast.

AM (MW/LW) external antenna (Fig. 2)

If AM reception is unsatisfactory, connect an external AM antenna (single-wire antenna) to the AM antenna terminal.

Noise and interference (Fig. 3)

Change the direction of the loop antenna or reinstall it in a better position when reception is noisy.

Notes:

- If the provided loop antenna is not connected, it will be impossible to receive AM broadcasts.
- When installing an external AM antenna, leave the AM loop antenna connected.

FM Antenna

How to set the FM antennas

Antenna terminals differ according to the markets.

After checking up your set, select the connection method out of (A), (B) or (C).

Antena de AM

Cómo fijar la antena circular (Fig. 1)

- Para conectar la antena, inserte la parte de la flecha. (consulta la Fig. 6)
- Aléjela del cable de alimentación, los cables de señal, y los elementos metálicos del cuerpo principal, y colóquela en un lugar en la que la recepción sea buena.

Antena circular de AM (MW/LW) (Fig. 2)

Esta antena se utiliza para recibir emisiones locales en AM.

Antena externa de AM (MW/LW) (Fig. 2)

Si la recepción de AM no es satisfactoria, conecte una antena externa de AM (antena de un solo cable) al terminal de antena AM.

Ruido e interferencia (Fig. 3)

Cambie la dirección de la antena circular o vuelva a instalarla en una posición distinta cuando exista ruido en la recepción.

Notas:

- Si la antena circular suministrada no está conectada, será imposible recibir emisiones en AM.
- Cuando instale una antena externa de AM, deje conectada la antena circular de AM.

Antenas de FM

Cómo conectar las antenas de FM

Los terminales para las antenas difieren de acuerdo con los mercados.

Después de verificar su equipo, seleccione el método de conexión entre (A), (B) y (C).

AM antenne

Hoe de raamantenne opstellen (Afb. 1)

- Schuif in de richting van de pijl om te monteren. (zie Afb. 6)
- Plaats de antenne niet te dichtbij het netsnoer, het signaalsnoer en de metalen onderdelen van het apparaat, op een plek waar de ontvangst goed is.

AM (MG/LG) raamantenne (Afb. 2)

Deze antenne is bestemd voor de ontvangst van lokale AM uitzendingen.

AM (MG/LG) externe antenne (Afb. 2)

Als de AM ontvangst te zwak is, kunt u best een externe AM antenne (enkele-draadantenne) aansluiten op de AM antennepool.

Ruis en storingen (Afb. 3)

Zet de raamantenne in een andere richting of op een betere plaats bij gestoorde ontvangst.

Opmerkingen:

- Als de bijgeleverde raamantenne niet goed is aangesloten, kunt u onmogelijk AM uitzendingen ontvangen.
- Bij het installeren van een externe AM antenne moet u de AM raamantenne ook aangesloten laten.

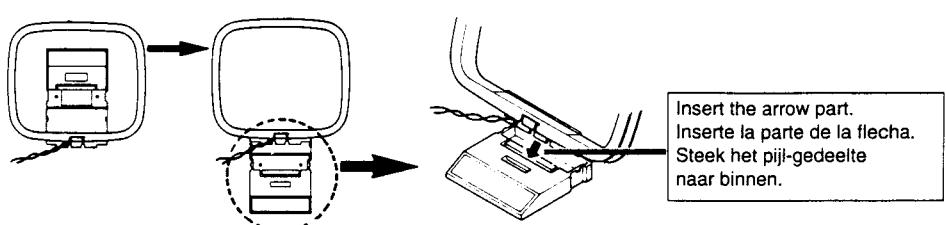
FM-antennes

Aansluiten van de FM-antennes

De uitvoering van de antenneaansluitingen verschilt afhankelijk van de plaats van bestemming.

Kies de juiste aansluitmethode uit (A), (B) en (C).

How to set up the loop antenna.
Cómo se instala la antena de cuadro.
Installeren van de raamantenne.



Insert the arrow part.
Inserte la parte de la flecha.
Steek het pijl-gedeelte naar binnen.

Fig. 6
Afb. 6

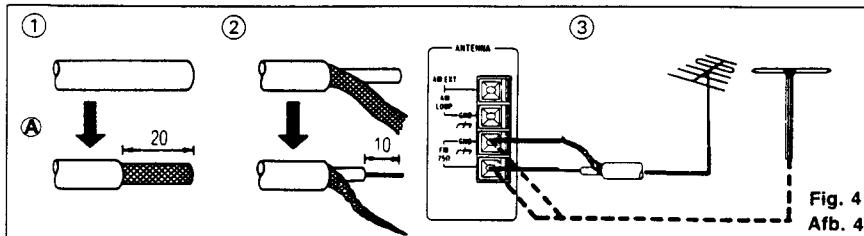


Fig. 4
Afb. 4

A Fig. 4
How to connect the coaxial

- ① Strip off the sheath to expose the braid about 20 mm (13/16").
- ② Open the braid to expose the conductor about 10 mm (7/16").
- ③ Plug the conductor into the FM ANTENNA terminal.
- Taper off the braid and plug it into the GND terminal.

FM feeder antennas

Plug into the FM antenna terminal.

B Fig. 5

- The FM wire antenna provided can be connected to a 75-ohm coaxial jack as a temporary measure.
- 75-ohm antenna with coaxial type connector (DIN 45 332) should be connected to the 75-ohm terminal.

A Fig. 4
Cómo conectar el cable coaxial.

- ① Corte el recubrimiento de plástico del cable para dejar al descubierto la trenza unos 20 mm.
- ② Abra la trenza para dejar al descubierto el conductor unos 10 mm.
- ③ Conecte el conductor al terminal FM ANTENNA (Antena de FM).
- Estreche la trenza y conectela al terminal GND (Tierra).

Antenas de alimentación de FM

Conectar al terminal de antena de FM.

B Fig. 5

- La antena de cable de FM suministrada puede conectarse en un jack coaxial de 75 ohmios como medida transitoria.
- La antena de 75 ohmios con conector tipo coaxial (DIN 45 332) debe conectarse al terminal de 75 ohmios.

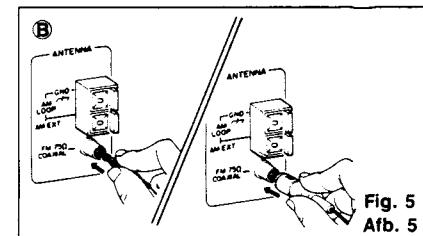


Fig. 5
Afb. 5

A Afb. 4
Hoe de coaxiale kabel aan te sluiten

- ① Strip de bekleding af, zodat de draadvlecht over een lengte van ongeveer 20 mm zichtbaar wordt.
- ② Open de draadvlecht, zodat de geleiderdraad over een lengte van ongeveer 10 mm zichtbaar wordt.
- ③ Bevestig de draad aan de FM ANTENNA aansluitklem.

FM voedingsantennes

Sluit aan op de FM ANTENNA-klem.

B Afb. 5

- De meegeleverde FM-draadantenne kan tijdelijk aangesloten worden op de 75 Ohm koaxiaalaansluiting.
- Een 75 Ohm antenne met koaxiaal-type aansluiting (DIN 45 332) dient te worden aangesloten op de 75 Ohm klem.

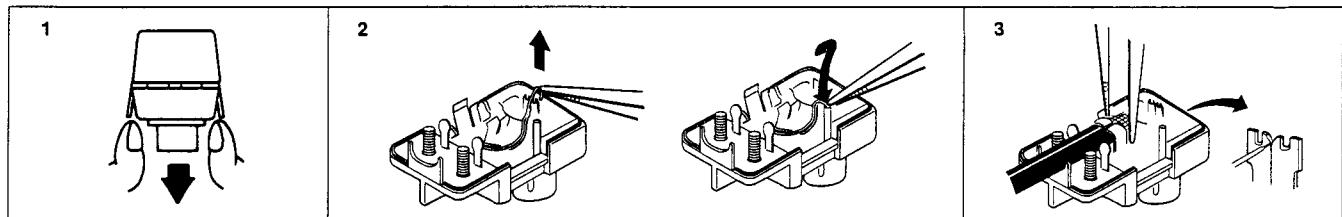


Fig. 7
Afb. 7

C Fig. 7, Fig. 8
• How to connect the FM connector

In case of a 75-ohm antenna (Fig. 7)

1. Open the claws at both sides and remove the cover.
2. Remove the cord from the metallic section, and attach it to the resin column (core).
3. Fix the coaxial cable and its core.
4. Put on the cover.

If the antenna provided is used: (Fig. 8)

It is not necessary to remove the cover. If the wire inside is cut, antenna provided can not be used.

Notes:

- Choose antennas to meet the reception conditions.
- Orient and fix antennas where audio reception is the clearest.

C Fig. 7, Fig. 8
• Cómo conectar el conector FM
En el caso de una antena de 75 ohmios. (Fig. 7)

1. Abra los ganchos que se encuentran a ambos lados y retire la cubierta.
2. Remueva el cable de la sección metálica, y empámelo en la columna de resina (núcleo).
3. Coloque el cable coaxial y enrolle el núcleo del mismo según se muestra en la fig.
4. Coloque la tapa.

Si se utiliza la antena provista: (Fig. 8)

No es necesario retirar la cubierta. Si el conductor interior se encuentra cortado, la antena provista no puede ser utilizada.

Notas:

- Seleccione antenas que satisfagan las condiciones de recepción.
- Oriente y fije las antenas en la posición en la que la señal de audio se reciba con mayor claridad.

C Afb. 7, Afb. 8
• Aansluiten van de FM-verbinding
Bij een 75 Ohm antenne (Afb. 7)

1. Open de klemmen aan beide zijden en verwijder het deksel.
2. Verwijder het snoer van het metalen gedeelte en bevestig het aan de harsklem (klem).
3. Bevestig de koaxiale kabel en daal de draadkern zoals aangegeven in Afb.
4. Breng het deksel aan.

Als u de bijgeleverde antenne gebruikt: (Afb. 8)

Het dekseltje hoeft niet te worden vervangen. Als de draad binnenin doorgeknapt is, kan de antenne niet meer gebruikt worden.

Opmerkingen:

- Kies antennes die aan de ontvangststandigheden voldoen.
- Installeer de antennes zo dat de ontvangst optimaal is.

How to connect cords (Fig. 9)

- 1 Open antenna terminal levers.
- 2 Plug cords into the terminals.
- 3 Close the levers.

BEAT CUT knob (Fig. 10)

When recording an AM (MW/LW) broadcast, beats may occur.

Set the BEAT CUT knob located on the rear panel to "1" or "2" so beats will be eliminated.

Cómo conectar los cables (Fig. 9)

- 1 Abra las palancas de los terminales de antena.
- 2 Conecte los cables a los terminales.
- 3 Cierre las palancas.

Botón BEAT CUT (Eliminación de Ruido) (Fig. 10)

Cuando grabe una emisión en AM (MW/LW) es posible que se produzca ruido.

Gire el botón BEAT CUT situado en el panel posterior a la posición "1" o "2" para eliminar el ruido.

Hoe de snoeren aansluiten (Afb.9)

- 1 Zet de antenneklemhefbomen open.
- 2 Steek de snoeren in de klemmen.
- 3 Sluit de hefbomen.

BEAT CUT-knop (Afb. 10)

Bij het opnemen van AM (MW/LW) uitzendingen kunnen interferenties optreden.

Zet de BEAT CUT-knop op het achterpaneel op "1" of "2" om de interferentie te elimineren.

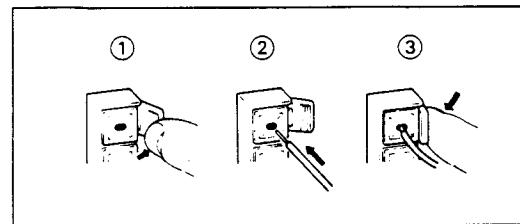


Fig. 9
Afb. 9

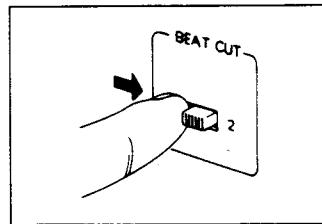


Fig. 10
Afb. 10

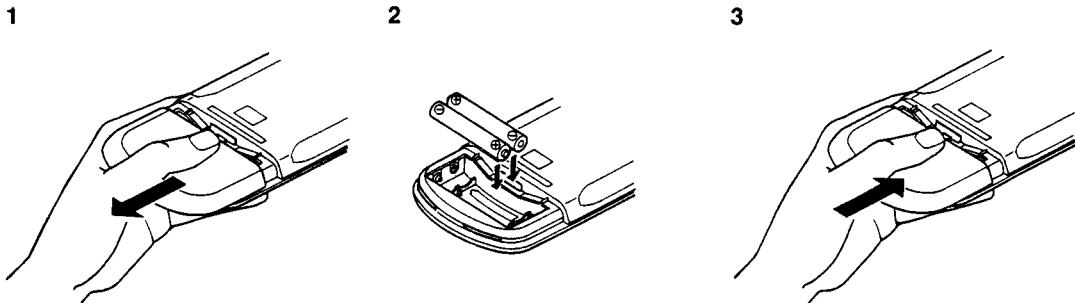


Fig. 11
Afb. 11

• **How to install batteries (Fig. 11)**

1. Remove the cover on the rear of the remote control unit.
2. Install the two provided batteries (AAA, UM-4, R03: 1.5 V) with their polarities properly placed as shown in the figure.
3. Re-install the cover.

• **How to use the batteries**

Improper use of the batteries can cause leakage or damage. So, take the following precautions:

1. Install batteries with their polarities properly placed.
2. Do not mix new and used batteries.
3. Use the same brand and type of batteries because otherwise the voltages may differ slightly.
4. If the remote control unit will not be used for a long time, remove the batteries.

Also, follow the instructions on the batteries.

• **Inleggen van de batterijen (Afb. 11)**

1. Verwijder het deksel aan de achterkant van de afstandsbediening.
2. Leg de twee meegeleverde batterijen (AAA, UM-4, R03: 1.5 V) in met de polariteiten in de juiste richting zoals in de afbeelding te zien is.
3. Breng het deksel weer aan.

• **Gebruik van de batterijen**

Onjuist gebruik van de batterijen kan deze doen lekken of beschadigen. Neem dus de volgende voorzorgsmaatregelen.

1. Leg de batterijen in met de polariteiten juist.
2. Meng geen nieuwe en oude batterijen.
3. Maak gebruik van hetzelfde merk en type batterijen anders kunnen de voltages enigszins verschillen.
4. Verwijder de batterijen indien de afstandsbediening voor langere tijd niet gebruikt gaat worden.

Volg tevens de aanwijzingen aangaande de batterijen.

• **Cómo instalar las pilas (Fig.11)**

1. Retire la tapa ubicada en la parte posterior de la unidad.
2. Instale las dos pilas suministradas (AAA, UM-4, R03: 1.5V) con sus polaridades correctamente posicionadas como se muestra en la figura.
3. Vuelva a instalar la tapa.

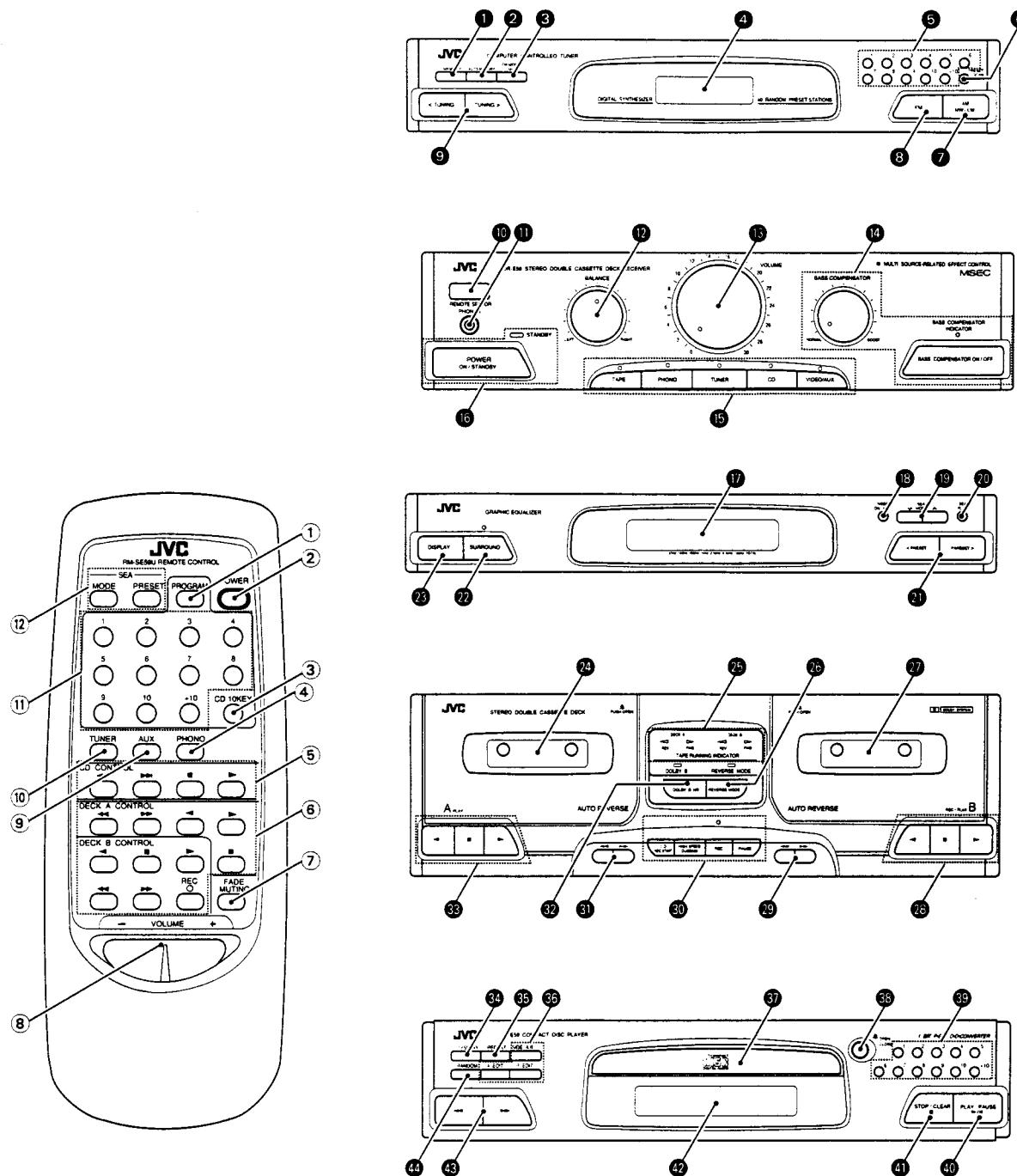
• **Cómo utilizar las pilas**

El uso incorrecto de las pilas puede originar pérdidas o daños. Por consiguiente, tenga en cuenta las siguientes precauciones:

1. Instale las pilas con sus polaridades correctamente posicionadas.
2. No mezcle pilas nuevas y usadas.
3. Utilice pilas del mismo tipo y marca, pues de lo contrario las tensiones pueden diferir ligeramente.
4. Si no emplea la unidad de mando a distancia durante mucho tiempo, retire las pilas.

Además, siga las instrucciones impresas en las pilas.

www.manualscenter.com



www.manualscenter.com

OPERATION WITH THE REMOTE CONTROL UNIT

- Check to be sure that this equipment is provided with remote control unit.

How to use the remote control unit

- To use the remote, point it at the REMOTE SENSOR section on the main unit.
- The remote works up to about 7 m apart.
(When the distance from which the remote control unit functions begins to decrease, replace both batteries.)

How to Use the Numeric Keys

To enter, 1 to 10:

Simply press the appropriate numeric keys.

To enter 11 or higher numbers:

Use the "+10" key.

Examples:

- 15: Press "+10", then press "5".
- 20: Press "+10", then press "10".
- 25: Press "+10" twice, then press "5".
- 40: Press "+10" three times, then press "10".

For TUNER

1. Press TUNER button ⑩.
 2. press the numeric keys.
- If you have preset a station, you can tune it in instantly by pressing the preset channel number. (Presets are performed on the main unit. See page 18.)

For CD

1. Press CD 10 KEY button ③.
 2. Press the numeric keys.
- You can access randomly to your favorites on a CD or use to program CD. Also used to vary the length of tape during edit recording.

Instructions for Use

- ① PROGRAM**: Use this button for programming the CD.

② POWER

- Turn ON the power to the main unit or let it stand by.

③ CD 10 KEY

④ PHONO

Press to listen to a record.

⑤ CD CONTROL

- ▶ : Starts playing a disc.
- ◀ : Stops playing a disc.
- ◀◀ : Scans a disc backward.
- ▶▶ : Scans a disc forward.

⑥ DECK CONTROL

- ▶ : Plays the front side of a tape.
- ◀ : Plays the reverse side of a tape.
- : Stop tape.
- ◀◀ : Fast-winds a tape to the left.
- ▶▶ : Fast-winds a tape to the right.

- REC** []: To start tape recording, press the ▶ or ▲ button while holding down this button.

⑦ FADE MUTING

- Press to lower the volume automatically.

⑧ VOLUME

- [+]: Press to increase the sound volume.
- [-]: Press to reduce the sound volume.

UTILIZACION DEL MANDO A DISTANCIA

- Asegurarse de que este equipo esté provisto de una unidad de control remoto.

Modo de empleo del mando a distancia

- Para usar el mando a distancia, diríjalo hacia el SENSOR DE CONTROL REMOTO de la unidad principal.
- El mando a distancia tiene un radio de acción de unos 7 metros.
(Cambio las pilas cuando comience a disminuir la distancia de funcionamiento de la unidad de control remoto.)

Cómo se utilizan las teclas numéricas

Para introducir un valor comprendido entre 1 y 10:
Pulse simplemente las teclas numéricas oportunas.
Para introducir un valor de 11 o superior:

Utilice el botón +10.

Ejemplos:

- 15: Pulse "+10" y, después "5".
- 20: Pulse "+10" y, después "10".
- 25: Pulse "+10" dos veces y, después "5".
- 40: Pulse "+10" tres veces y, después "10".

Para el TUNER

1. Pulse la tecla TUNER ⑩.
 2. Oprima las teclas numéricas.
- Si tiene preseleccionada una emisora, puede sintonizarla inmediatamente presionando el número del canal preseleccionado. (Las preselecciones se realizan en la unidad principal. Consulte la página 18.)

Para el CD

1. Pulse la tecla CD 10 KEY ③.
 2. Oprima las teclas numéricas.
- Ud. puede lograr acceso a sus melodías favoritas de un CD al azar, o utilizarlas para programar el CD. También se utilizan para modificar la longitud de la cinta durante la grabación compaginada.

Instrucciones de uso

- ① PROGRAM**: Utilice este botón para programar el CD.

② ENCENDIDO

- Encienda la unidad principal o déjela en posición STANDBY (Espera).

③ CD 10 KEY (Teclas numéricas del CD)

- ④ PHONO (Tocadiscos)**
Pulse para escuchar un disco.

⑤ CD CONTROL (Controles de CD)

- ▶ : Inicia la reproducción de un disco.
- : Detiene la reproducción de un disco.
- ◀◀ : Explora un disco hacia atrás.
- ▶▶ : Explora un disco hacia adelante.

⑥ CONTROL DE PLATINA

- ▶ : Reproduce la cara frontal de la cinta.
- ◀ : Reproduce la cara inversa de la cinta.
- : Parada de cinta.
- ◀◀ : Avanza rápidamente una cinta.
- ▶▶ : Rebobina rápidamente una cinta.

- REC** []: Para iniciar la grabación de cinta, pulse el botón ▶ o ▲ mientras mantiene pulsado este botón.

⑦ REDUCCION GRADUAL DE VOLUMEN

- Oprima este botón para reducir el volumen por pasos.

⑧ VOLUMEN

- [+]: Pulse esta tecla para elevar el volumen.
- [-]: Pulse esta tecla para reducir el volumen.

BEDIENING MET DE AFSTANDSBEDIENINGSELEMENTEN

- Kontroleer of de afstandsbediening bij dit toestel is geleverd.

Gebruik van de cifertoetsen

Om 1 tot 10 in te voeren:

Druk gewoon op de juiste cifertoetsen.

Om 11 of hogere nummers in te voeren:

Gebruik de "+10" toets.

Voorbeeliden:

15: Druk op "+10" en dan op "5"

20: Druk op "+10" en dan op "10"

25: Druk tweemaal op "+10" en dan op "5"

40: Druk driemaal op "+10" en dan op "10"

Voor de TUNER

1. Druk op TUNER-toets ⑩.

2. Druk op de cifertoetsen.

- Als u een zender hebt voorgekozen, kunt u er onmiddellijk op afgstemmen door het voorkeuzezendernummer in te drukken. (Voorinstellingen gebeuren op het apparaat zelf. Zie pag. 18.)

Voor de CD-speler

1. CD 10 KEY toets ③.

2. Druk op de cifertoetsen.

- U kunt uw favoriete fragmenten van een CD met deze toetsen kiezen of bepaalde fragmenten van een CD programmeren. Gebruik deze toetsen tevens voor het instellen van de cassette-speeltijd voor het gemonterd opnemen.

Gebruiksinstuksies

- ① PROGRAM**: Gebruik deze toets voor het programmeren van een CD.

② POWER (aan/uit)

- Zet het apparaat op ON (aan) of laat het in standby (uit) staan.

③ CD 10 KEY

④ PHONO

Druk op deze toets om een plaat te beluisteren.

⑤ CD CONTROL (CD-bedieningselementen)

- ▶ : Om een CD te beginnen afspelen.
- : Om het afspelen van een CD te beëindigen.
- ◀◀ : Om een CD achteruit af te tasten.
- ▶▶ : Om een CD vooruit af te tasten.

⑥ BEDIENINGSELEMENTEN

- ▶ : Om de voorkant van de cassette af te spelen.
- ◀ : Om de achterkant van de cassette af te spelen.

- : Om de cassette te laten stoppen.

- ◀◀ : Om een cassette op te spoelen.

- ▶▶ : Om een cassette terug te spoelen.

- REC** []: Om op de cassette te beginnen te opnemen, drukt u de ▶ of de ▲ in terwijl u deze toets ingedrukt houdt.

⑦ FADE MUTING (stil-volume-afstelling)

- Deze toets indrukken om het volume instappen te verminderen.

⑧ VOLUME

- [+]: Druk hierop om het klankvolume te vergroten.

- [-]: Druk hierop om het klankvolume te verlagen.

9 AUX

Press to listen to the sound from the source plugged into the VIDEO/AUX jack.

10 TUNER

- Press to tune into broadcast. To recall preset channels, press numeric keys also.

11 Numeric keys (1—10, +10)

12 SEA

SEA MODE: The SEA mode changes as follows.

POPS → JAZZ → ROCK → MOVIE → CLASSIC → FLAT → back to the beginning

SEA PRESET: The SEA pattern changes as follows.

1 → 2 → 3 → 4 → 5 → 6 → 7
→ 8 → 9 → 10 → back to the beginning

9 AUX

Pulse para escuchar el sonido de la fuente enchufada en el conector VIDEO/AUX.

10 TUNER

- Oprima para sintonizar una radiodifusión. Oprima también las teclas numéricas para ilamar los canales preajustados.

11 Teclas numéricas (1—10, +10)

12 SEA

Modo SEA (SEA MODE):

Cambia el modo SEA como sigue.

Música pop (POPS) → jazz (JAZZ) → música rock (ROCK) → película (MOVIE) → música clásica (CLASSIC) → piano (FLAT)
→ Vuelta al principio

SEA preestablecido (SEA PRESET):

El patrón SEA cambia como sigue:

1 → 2 → 3 → 4 → 5 → 6 → 7
→ 8 → 9 → 10 → Vuelta al principio

9 AUX

Druk op deze toets om naar de klank van de op de VIDEO/AUX-ingang aangesloten bron te luisteren.

10 TUNER

- Drukken om op een zender af te stemmen. Gebruik de cijfertoetsen tevens voor het oproepen van voorkeuzezenders.

11 Cijfertoetsen (1—10, +10)

12 SEA

SEA MODE: De SEA stand verandert als volgt.

POPS → JAZZ → ROCK → MOVIE → CLASSIC → FLAT → Terug naar het begin

SEA PRESET: Het SEA patroon verandert als volgt.

1 → 2 → 3 → 4 → 5 → 6 → 7
→ 8 → 9 → 10 → Terug naar het begin

DESCRIPTION AND FUNCTIONS

TUNER section (see page 17.)

- ① MEMORY
- ② AUTO MEMORY
- ③ FM MODE/MUTE
See "FM MODE/MUTE," page 18.
- ④ Tuner display window
This window shows information about the tuner. The following items are displayed:
 - FM/AM band (FM/AM)
 - Receive frequency
 - Broadcast received (TUNED)
 - Stereo broadcast received (STEREO)
 - FM mode changeover (AUTO)
- ⑤ Numeric keys on Tuner (Preset stations)
See "How to use the numeric keys," page 10.
- ⑥ PRESET SCAN
- ⑦ AM (MW/LW)
- ⑧ FM
- ⑨ TUNING (< , >)
Use to tune in an FM or AM broadcast.
> : Use to increment the tuned-in frequency.
< : Use to decrement the tuned-in frequency.

AMPLIFIER section

- ⑩ REMOTE SENSOR
This sensor detects the signals transmitted from the remote control unit.
- ⑪ PHONES jack
Plug headphones into this jack.
Note:
• Plugging in headphones switches off the sound from the speakers.
- ⑫ BALANCE
Balances the sound volumes of the left and right speakers. Normally, leave this knob at the center (click) position.
- ⑬ VOLUME
Use to adjust the volume of the speakers or headphones.
Note:
• Set the volume so as not to disturb your neighbors, especially late at night.
- ⑭ BASS COMPENSATOR
• Compensates for the bass level.
The BASS COMPENSATOR ON/OFF button is used to enable or disable the BASS COMPENSATOR function. When this function turns on, the BASS COMPENSATOR indicator lights. The amount by which the low-frequency sound is compensated can be adjusted with the BASS COMPENSATOR (NORMAL/BOOST) control.
- ⑮ Source selector
TAPE, PHONO, TUNER, CD, and VIDEO/AUX
Used to select the desired source.
Notes:
• Instead of operating the source selector buttons, pressing PLAY (< , >) buttons of CD or TAPE, or PRESET buttons of TUNER (FM/AM) will start each playing.
• Switching of the source selector automatically stops the source (CD, TAPE) played just before.

DESCRIPCION Y FUNCIONES

SINTONIZADOR (Ver página 17.)

- ① MEMORY (Memoria)
- ② AUTO MEMORY (Memoria automática)
- ③ SILENCIADOR EN FM (FM MODE/MUTE)
Véase "Modo silenciador en FM," página 18.
- ④ Ventana de visualización del sintonizador
Esta ventana muestra información relativa al sintonizador. Se visualizan los elementos siguientes:
 - Banda de FM/AM (FM/AM)
 - Frecuencia de recepción
 - Emisora recibida (TUNED)
 - Emisora en estéreo recibida (STEREO)
 - Cambio al modo de FM (AUTO)
- ⑤ Teclas numéricas del sintonizador (Estaciones presintonizadas)
Ver "Cómo se utilizan las teclas numéricas," página 10.
- ⑥ PRESET SCAN (Búsqueda preestablecida)
- ⑦ AM (MW/LW)
- ⑧ FM
- ⑨ TUNING (< , >)
Utilice este mando para sintonizar una emisión en FM o en AM.
> : Utilice este mando para aumentar la frecuencia sintonizada.
< : Utilice este mando para reducir la frecuencia sintonizada.

AMPLIFICADOR

- ⑩ REMOTE SENSOR (Sensor del mando a distancia)
Este sensor detecta las señales transmitidas por el mando a distancia.
- ⑪ Conector PHONES (Auriculares)
Conecte la clavija de los auriculares a este conector.
Nota:
• Al conectar los auriculares, cesa el sonido de los altavoces.
- ⑫ BALANCE
Equilibra el volumen de sonido de los altavoces izquierdo y derecho. Lo normal es batir este mando en la posición central.
- ⑬ VOLUME (Volumen)
Permite ajustar el volumen de los altavoces o auriculares.
Nota:
• Ajuste el volumen de forma tal que no moleste a sus vecinos, especialmente de noche.
- ⑭ Compensador de tonos graves (BASS COMPENSATOR)
• Compensa el nivel de los tonos graves.
El botón de activación/desactivación del compensador de tonos graves (BASS COMPENSATOR ON/OFF) se utiliza para capacitar o descapacitar la función de dicho compensador de tonos graves. Cuando esta función esté activada, el indicador del compensador de tonos graves (BASS COMPENSATOR) estará encendido. La cantidad en la que está compensado el sonido de baja frecuencia puede ajustarse con el control de compensador de tonos graves (normal/realizado) (BASS COMPENSATOR (NORMAL/BOOST)).
- ⑮ Source selector (Selectores de fuente)
TAPE (Cinta), PHONO (Tocadiscos), TUNER (Sintonizador), CD (Compact Disc) y VIDEO/AUX.
Utilizado para seleccionar la fuente deseada.
Notas:
• Si el lugar de operar los botones source selector, se oprimen los botones PLAY (< , >) del CD o TAPE, o los botones PRESET del TUNER (FM/AM) comenzará la operación de cada equipo.
• La conmutación del source selector detiene automáticamente la fuente (CD, TAPE) que estaba en operación en el momento inmediato.

BESCHRIJVING EN FUNCTIES

TUNERGEDEELTE (Zie pag. 17.)

- ① MEMORY (geheugen)
- ② AUTO MEMORY (automatisch geheugen)
- ③ FM MODE/MUTE
Zie "FM STAND/DEMPSING" bladzijde 18.
- ④ Tuner display
Deze display geeft informatie over de tuner aan. De volgende gegevens worden getoond.
 - FM/AM band (FM/AM)
 - Ontvangsfrequentie
 - Ontvangen uitzending (TUNED)
 - Stereo-uitzending ontvangen (STEREO)
 - FM stand veranderen (AUTO)
- ⑤ Cijfertoetsen van de tuner (voorkeuzezetters)
Zie "Gebruik van de cijfertoetsen" op pag. 10.
- ⑥ PRESET SCAN (voorkeuze - aftasting)
- ⑦ AM (MG/LG)
- ⑧ FM
- ⑨ TUNING (< , >)
Gebruik deze toets om op een FM-of AM-zender af te stemmen.
> : Gebruik deze toets om de afstemfrequentie te verhogen.
< : Gebruik deze toets om de afstemfrequentie te verlagen.

VERSTERKERGEDEELTE

- ⑩ REMOTE SENSOR (afstandsbedienings-sensor)
Deze sensor detecteert signalen die door de afstandsbediening worden doorgestuurd.
- ⑪ PHONES jack (koptelefoonansluiting)
Gebruik deze ingang voor uw koptelefoon.
Opmerking:
• Als u uw koptelefoon aansluit, wordt de luidsprekerdank uitgeschakeld.
- ⑫ BALANCE (balans)
Regelt de volumebalans tussen de linker en de rechter luidsprekers. Normaal zet u deze schakelaar in de middenstand (klik).
- ⑬ VOLUME
Gebruik deze regelaar voor het instellen van het volume van de luidsprekers of de koptelefoon.
Opmerking:
• Stel deze regelaar vooral's avonds niet te hoog in en houd rekening met de buren.
- ⑭ BASS COMPENSATOR
• Kompenseert het lage toon niveau.
Met de BASS COMPENSATOR ON/OFF toets schakelt u de BASS COMPENSATOR functie in en uit. Als deze functie is ingeschakeld, brandt de BASS COMPENSATOR indicator. U kan de mate waarin het lage frequentiegeluid wordt gekompenseerd bijregelen met de BASS COMPENSATOR (NORMAL/BOOST) regelaar.
- ⑮ Source selector (Bronkeuzetoetsen)
TAPE, PHONO, TUNER, CD en VIDEO/AUX
Wordt gebruikt om de gewenste bron te kiezen.
Opmerkingen:
• U kunt de weergave i.p.v. met de source selector toetsen tevens starten met de PLAY (< , >) toetsen van de CD of TAPE, of PRESET toetsen van de TUNER (FM/AM).
• Weergave van de ingestelde bron (CD, TAPE) wordt gestopt door met de source selector toets een andere bron in te schakelen.

⑯ POWER (ON/STANDBY) switch and STANDBY indicator

The POWER (ON/STANDBY) switch is used to turn the power on or set the system to standby. When the system is on standby, the STANDBY indicator lights. In this case, little power is consumed (10 watts). The power is used to retain data in memory. To turn the power off completely, disconnect the power cord from the wall outlet.

S.E.A. GRAPHIC EQUALIZER CONTROL

(See page 16.)

⑰ GRAPHIC EQUALIZER display window

Displays information about the graphic equalizer. The following items are displayed:

- Spectrum Analyzed Indicator
- Effect level indicator

SEA stands for Sound Effect Amplifier.

- Selected SEA mode and selected pattern

- MSEC function on/off

⑱ MSEC ON/OFF

Turns the MSEC function on and off.

⑲ SEA MODE V, ^

Changes the SEA mode. There are the following SEA modes.
POPS, JAZZ, ROCK, MOVIE, CLASSIC, FLAT

⑳ SEA FLAT

Changes the SEA mode to FLAT. The SEA (Sound Effect Amplifier) effect is eliminated.

㉑ PRESET <, >

Changes the pattern. There are patterns 1 to 10.

㉒ SURROUND

Adds the surround effect to the sound. It is turned on and off when the SURROUND button is pressed. When SURROUND is on, the indicator above the SURROUND button lights.

㉓ DISPLAY

Changes the information shown on the GRAPHIC EQUALIZER display window.

CASSETTE DECK section

(See page 23.)

㉔ Cassette holder (Deck A)

㉕ TAPE RUNNING INDICATORS

Show the status of tape running.

㉖ REVERSE MODE button and REVERSE MODE indicator

The REVERSE MODE button turns the auto-reverse function on and off. When the auto-reverse function is on, the REVERSE MODE indicator lights.

㉗ Cassette holder (Deck B)

㉘ DECK B playback and playback/stop functions

- (►) : Plays the front side of a tape.
- (◀) : Plays the reverse side of a tape.
- (■) : Stop tape.

㉙ DECK B fast forward and rewind functions

- (◀◀) : Fast-winds a tape to the left.
- (▶▶) : Fast-winds a tape to the right.

⑯ Interruptor de encendido (POWER (ON/STANDBY)) e indicador de situación de espera (STANDBY)

El interruptor de encendido (POWER (ON/STANDBY)) se utiliza para encender el sistema o situarlo en estado de espera. Cuando el sistema se encuentre en estado de espera, el indicador de estado de espera (STANDBY) estará iluminado. En esta situación se consume poca energía (10 vatios). Dicho consumo se utiliza para retener los datos en la memoria. Para apagar completamente la unidad, desconecte el cable de alimentación de la toma de la red.

S.E.A. GRAPHIC EQUALIZER CONTROL

(Ver página 16.)

⑰ Ventana de visualización de ecualizador gráfico (GRAPHIC EQUALIZER)

Visualiza información relativa al ecualizador gráfico. Se visualizan los elementos siguientes:

- Indicador de espectro analizado
- Indicador del nivel de efecto

SEA significa Amplificador del Efecto de Sonido.

- Modo SEA seleccionado y patrón seleccionado
- Activación/desactivación de función MSEC

⑯ Activación/desactivación del control de efecto de fuente múltiple (MSEC ON/OFF)

Activa y desactiva la función de control de efecto de fuente múltiple (MSEC).

⑰ Modo del SEA (SEA MODE) V, ^

Cambia el modo SEA. Se dispone de los siguientes modos SEA.

Música pop (POPS), jazz (JAZZ), música rock (ROCK), película (MOVIE), música clásica (CLASSIC), piano (FLAT)

⑰ Modo SEA piano (SEA FLAT)

Cambia el modo SEA a piano (FLAT). Se elimina el efecto SEA (Amplificador del Efecto de Sonido).

⑰ Patrón preestablecido (PRESET) <, >

Cambia el patrón. Se dispone de patrones 1 a 10.

⑰ Sonido ambiental (SURROUND)

Añade el efecto de sonido ambiental al sonido base. Se activa y desactiva cuando se pulsa el botón de sonido ambiental (SURROUND). Cuando dicha función esté activada, el indicador situado encima del botón de sonido ambiental (SURROUND) aparecerá iluminado.

㉗ Visualización (DISPLAY)

Cambia la información mostrada en la ventana de visualización del ecualizador gráfico (GRAPHIC EQUALIZER).

DOBLE PLATINA DE CASSETTE

(Ver página 23.)

㉔ Portacassette (Platina A)

㉕ TAPE RUNNING INDICATORS
(Indicadores de posición de la cinta)

Muestran la posición en que se encuentra la cinta.

㉖ Botón de modo inverso (REVERSE MODE), e indicador de modo inverso (REVERSE MODE)

El botón del modo inverso (REVERSE MODE) activa y desactiva la función de inversión automática. Cuando dicha función está activada, se enciende el indicador de modo inverso (REVERSE MODE).

㉗ Portacassette (Platina B)

㉘ Funciones de reproducción y reproducción/parada de la platina B (DECK B)

- (►) : Reproduce la cara frontal de la cinta.
- (◀) : Reproduce la cara inversa de la cinta.
- (■) : Parada de cinta.

㉙ Funciones de avance y rebobinado rápidos de la platina B (DECK B)

- (◀◀) : Avanza rápidamente una cinta.
- (▶▶) : Rebobina rápidamente una cinta.

⑯ POWER (ON/STANDBY) schakelaar en STANDBY indikator

De POWER (ON/STANDBY) schakelaar wordt gebruikt om de spanning in te schakelen of om het systeem in standby te zetten. Als het systeem standby is, brandt de STANDBY indikator. Er wordt dan slechts een weinig stroom verbruikt (10 watt) om gegevens in het geheugen te bewaren. Om de spanning volledig uit te schakelen, trekt u het netsnoer uit het stopcontact.

S.E.A. GRAPHIC EQUALIZER CONTROL

(Zie pag. 16.)

⑰ GRAPHIC EQUALIZER display

Geef informatie aan over de grafische equaliser. De volgende gegevens worden getoond.

- Spectrum Analyzed Indikator
- Effektivneuve indikator

SEA betekent Sound Effect Amplifier.

- Gekozen SEA stand en gekozen patroon
- MSEC functie aan/uit

⑱ MSEC ON/OFF

Schakelt de MSEC functie in en uit

⑲ SEA MODE V, ^

Verandert de SEA stand. De volgende SEA standen zijn beschikbaar.

POPS, JAZZ, ROCK, MOVIE, CLASSIC, FLAT

⑳ SEA FLAT

Verandert de SEA stand in FLAT. Het SEA (Sound Effect Amplifier) effect wordt uitgeschakeld.

㉑ PRESET <, >

Verandert het patroon. Er zijn 10 patronen (1 tot 10).

㉒ SURROUND

Voegt een surroundeffekt aan de klank. Wordt in- en uitgeschakeld als u op de SURROUND toets drukt. Als SURROUND aan is, brandt de indikator boven de SURROUND toets.

㉓ DISPLAY

Verandert de informatie die op de GRAPHIC EQUALIZER display wordt getoond.

CASSETTE DECK

(Zie pag. 23.)

㉔ Cassettehouder (Deck A)

㉕ TAPE RUNNING INDICATORS
(bandloopindicators)

Geven de bandlooprichting aan.

㉖ REVERSE MODE toets REVERSE MODE indikator

De REVERSE MODE toets schakelt de automatische omkeerfunktion aan en uit. Als de automatische omkeerfunktion is ingeschakeld, brandt de REVERSE MODE indikator.

㉗ Cassettehouder (Deck B)

㉘ DECK B weergave en weergave/stop functies

- (►) : Om de voorwand van de cassette af te spelen.

- (◀) : Om de achterwand van de cassette af te spelen.

- (■) : Om de cassette te laten stoppen.

㉙ DECK B opspoel- en terugspoelfuncties

- (◀◀) : Om een cassette op te spoelen.

- (▶▶) : Om een cassette terug te spoelen.

⑩ DECK B record function

CD REC START: Starts CD recording.
When this button is pressed, CD play starts and DECK B recording starts.

HIGH-SPEED DUBBING: See "DUBBING", page 25.

REC: Recording or mute recording. To record, hold down the REC button and press the (►) or (◀) button. To mute recording, press the REC button while recording is stopped temporarily or while recording.

PAUSE: Stops playback or recording temporarily.

⑪ DECK A fast forward and rewind functions

(◀◀) : Fast-winds a tape to the left.
(▶▶) : Fast-winds a tape to the right.

⑫ DOLBY B NR and DOLBY B Indicator

Turns the DOLBY B noise reduction function on and off. When it is on, the DOLBY B indicator lights.

⑬ DECK A playback and playback/stop functions

(►) : Plays the front side of a tape.
(◀) : Plays the reverse side of a tape.
(■) : Stop tape.

CD PLAYER section (See page 21.)

⑭ DISPLAY

Switches the time indicator.

⑮ REPEAT

Repeats play

⑯ A.EDIT, P.EDIT, SIDE A/B

Use this button for edit recording.

⑰ Disc platter

Mounts disc.

⑲ OPEN/CLOSE (▲)

Withdraws or retracts the disc platter.

⑳ Numeric keys on CD player

See "How to use the numeric keys" page 13.

㉑ PLAY/PAUSE (► / II)

Press this button to start playing a disc when it is stopped or paused, or to pause playing in progress.

㉒ STOP/CLEAR (■)

Press to halt playing. Pressing of this button during the halt cancels the memory contents.

㉓ Display for CD player

Shows the operation status of CD player.

㉔ Función de grabación en la platina B

(DECK B)

Comienzo de grabación de CD (CD REC START): Comienza la grabación de CD. Cuando se pulsa este botón, se inicia la reproducción de CD y comienza la grabación en la platina B.

Copia a alta velocidad (HIGH-SPEED DUBBING): Véase "Proceso de copia", página 25.

Grabación (REC):

Grabación o grabación enmudecida. Para grabar, mantenga pulsado el botón de grabación (REC), pulse el botón (►) o (◀). Para enmudecer la grabación, pulse el botón de grabación (REC) mientras se la grabación está temporalmente interrumpida, o durante dicha grabación.

Botón de pausa (PAUSE): Interrumpe temporalmente la reproducción o grabación.

㉕ Funciones de vance y rebobinado rápidos de la platina A (DECK A)

(◀◀) : Avanza rápidamente una cinta.

(▶▶) : Rebobina rápidamente una cinta.

㉖ Reducción de ruido Dolby B (DOLBY B NR) e indicador de Dolby B (DOLBY B)

Activa o desactiva la función de reducción de ruido Dolby B (DOLBY B). Cuando está activada, el indicador de reducción de sonido Dolby B (DOLBY B) aparecerá iluminado.

㉗ Funciones de reproducción y reproducción/pausa de la platina A (DECK A)

(►) : Reproduce la cara frontal de la cinta.

(◀) : Reproduce la cara inversa de la cinta.

(■) : Parada de cinta

CD PLAYER section (Ver página 21.)

㉘ DISPLAY

Commuta el indicador de tiempo.

㉙ REPEAT

Repite la reproducción.

㉚ A. EDIT, P. EDIT, SIDE A/B

Utilice este botón para realizar una grabación compaginada.

㉛ Plato giradiscos

Se utiliza para colocar el disco.

㉜ OPEN/CLOSE (▲)

Desplaza el plato giradiscos hacia afuera o hacia adentro.

㉝ Teclas numéricas en el reproductor de CD

Ver "Cómo se utilizan las teclas numéricas" en página 13.

㉞ PLAY/PAUSE (► / II)

(Reproducción/Pausa)

Pulse esta tecla para iniciar la reproducción de un disco cuando está interrumpida o se ha efectuado una pausa, o para realizar una pausa en la reproducción en curso.

㉟ STOP/CLEAR (■)

Oprima para detener la reproducción. Si se oprime este botón durante la detención, se borra el contenido de la memoria.

㉟ Visualización para el reproductor de CD

Muestra el estado de la operación del reproductor de CD.

(TRACK) : Tune number

(TRACK) : Número de la melodía

(TRACK) : Fragmentnummer

STEP : Order of programmed tunes

STEP : Orden de las melodías programadas

STEP : Volgorde van geprogrammeerde fragmenten

Program chart : Indicates the number of the disc.

The number of the tune programmed lights up. (indicates up to 16 tunes.)

Program chart : Indica el número del disco.

El número de la melodía programada se ilumina. (indica hasta un máximo de 16 melodías).

Muziekkalender : Toont het CD-fragmentnummer.

Het nummer van het geprogrammeerde fragment licht op (maximaal 16 fragmenten).

Time display

Visualización del tiempo

Tijddisplay

㉛ DECK B opnamefunktie

CD REC START: Begint opname van een CD. Als u op deze toets drukt, begint weergave van de CD en DECK B begint op te nemen.

HIGH-SPEED DUBBING: Zie "KOPIEREN", bladzijde 25.

REC: Opname en opnamedemping. Om op te nemen, druk op de REC toets en druk op de (►) of de (◀) toets. Om een stilte op te nemen, druk op de REC toets terwijl de opname voorlopig is gestopt of tijdens de opname.

PAUSE: Stopt de weergave of opname voorlopig.

㉜ DECK A opspoel- en terugspoelfunkties

(◀◀) : Om een cassette op te spoelen.
(▶▶) : Om een cassette terug te spoelen.

㉝ DOLBY B NR en DOLBY B Indikator

Schakelt de DOLBY B ruisonderdrukkingsfunctie aan en uit. Als het ingeschakeld is, brandt de DOLBY B indikator.

㉞ DECK A weergave en weergave/stop functies

(►) : Om de voorkant van de cassette af te spelen.

(◀) : Om de achterkant van de cassette af te spelen.

(■) : Om de cassette te laten stoppen.

CD PLAYER section (Zie pag. 21.)

㉘ DISPLAY

Voor het tonen van de diverse tijdaanduidingen.

㉙ REPEAT

Voor het herhaal van opname.

㉚ A. EDIT, P. EDIT, SIDE A/B

Gebruik deze toets voor het gemonteerd openen.

㉛ CD-lade

Hier wordt de CD geplaatst.

㉜ OPEN/CLOSE (▲)

Voor het openen of sluiten van de CD-lade.

㉝ Cijferstoetsen van de CD-speler

Zie "Gebruik van de cijferstoetsen" bladzijde 13.

㉞ PLAY/PAUSE (► / II)

(afspelen/pauze)

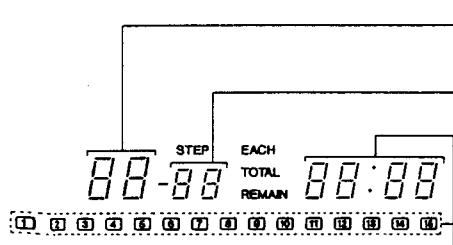
Druk op deze toets om een CD te beginnen af te spelen uit stop-of pauzestand of om het af-te-spelen voorlopig te onderbreken.

㉟ STOP/CLEAR (■)

Voor het stoppen van de weergave. Door tijdens de stopfunktie op deze toets te drukken, wordt alle inhoud in voakeuze / memory, geanuleerd.

㉟ Display voor de CD-speler

Toont de bedieningsfuncties van de CD-speler.



Program chart : Indicates the number of the disc.

The number of the tune programmed lights up. (indicates up to 16 tunes.)

Program chart : Indica el número del disco.

El número de la melodía programada se ilumina. (indica hasta un máximo de 16 melodías).

Muziekkalender : Toont het CD-fragmentnummer.

Het nummer van het geprogrammeerde fragment licht op (maximaal 16 fragmenten).

Time display

Visualización del tiempo

Tijddisplay

Press the DISPLAY to change the indicator as follows:
EACH: Shows the passage time for each tune.
EACH REMAIN: Shows the remaining time for each tune.
TOTAL: Shows the total passage time from first tune.
TOTAL REMAIN: Shows the total remaining time.

Note:

- **Switching the source to TUNER displays "CD OFF."**

④ SEARCH (◀◀, ▶▶)

(◀◀) : Locates the beginning of the song being played or the previous tune. Also use it for fastrewinding.
(▶▶) : Locates the beginning of the next tune. Also use it for fast-forwarding.

⑤ RANDOM

Plays CD randomly.

Oprima DISPLAY para cambiar el indicador según se indica a continuación:

EACH: Muestra el tiempo transcurrido de cada melodía.

EACH REMAIN: Muestra el tiempo restante de cada melodía.

TOTAL: Muestra el tiempo total transcurrido desde la primera melodía.

TOTAL REMAIN: Muestra el tiempo total restante.

Nota:

- Si se conmuta la fuente de TUNER se visualiza "CD OFF".

⑥ SEARCH (◀◀, ▶▶)

(◀◀) : Localiza el comienzo de la melodía que se está reproduciendo o el de la melodía anterior. Se utiliza también para retroceder rápidamente.

(▶▶) : Localiza el comienzo de la melodía siguiente. Se utiliza también para avanzar rápidamente.

⑦ RANDOM

Reproduce el CD al azar.

Door op de DISPLAY toets te drukken, verandert de aanduiding als volgt:

EACH: Toont de weergavetijd voor ieder fragment.

EACH REMAIN: Toont de resterende weergavetijd voor ieder fragment.

TOTAL: Toont de totale weergavetijd vanaf het eerste fragment.

TOTAL REMAIN: Toont de totale resterende weergavetijd.

Opmerking:

- "CD OFF" wordt getoond indien de ingangsbron van TUNER wordt geschakeld.

⑧ SEARCH (◀◀, ▶▶)

(◀◀) : Voor het instellen van het begin van het spelende fragment of een voorgaand fragment.

(▶▶) : Voor het instellen van het begin van een volgend fragment.

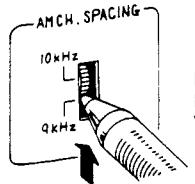
⑨ RANDOM

Voor het inschakelen van willekeurige weergave.

***1 Channel spacing**

Area	Band	FM	AM (MW)	AM (LW)
Europe, U.K.	50 kHz	9 kHz	1 kHz	
Australia	50 kHz	9 kHz	—	
Other area	50 kHz	9 kHz or 10 kHz	—	

An AM channel spacing switch is provided on the rear panel for selecting 9 kHz or 10 kHz steps according to your area (not provided on tuners for Canada, U.K., Australia and Continental Europe).



Example
Exempel
Voorbeeld

Fig. 12
Afb. 12

To change the AM channel spacing:
First, turn the power on, then disconnect the power cord. Wait for a few seconds and switch over the AM channel spacing switch as shown in Fig. 12, using the tip of a ball-point pen.

***2 Turn the DOLBY B NR-button ON to record with a Dolby system on or to play back a tape recorded on a Dolby system.**

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

***1 Espaciado entre canales**

Gebiet	Band	FM	AM (MW)	AM (LW)
Europa, Großbritannien	50 kHz	9 kHz	1 kHz	
Australien	50 kHz	9 kHz	—	
Sonstige Gebiete	50 kHz	9 kHz oder 10 kHz	—	

En el panel posterior se encuentra un conmutador de espaciado entre canales de AM que permite seleccionar incrementos de 9 o 10 kHz dependiendo de su área (no se incluye en los sintonizadores vendidos en el Canadá, Reino Unido, Australia Europa Continental.)

Para modificar el espaciado entre canales de AM:

En primer lugar, y desconecte el cable de alimentación. Espere unos segundos y ajuste el conmutador de espaciado entre canales de AM de la manera mostrada en la Fig. 12, utilizando para ello la punta de un bolígrafo.

***2 Pulse el botón DOLBY B NR en posición ON para grabar con un sistema Dolby o para reproducir una cinta grabada en un sistema Dolby.**

* Reducción de ruido Dolby fabricado bajo licencia de Dolby Laboratories Licensing Corporation.

"DOLBY" y el símbolo de la D doble son marcas de Dolby Laboratories Licensing Corporation.

***1 Kanaalscheiding**

Zone	Band	FM	AM (MG)	AM (LG)
Europa, G.B.	50 kHz	9 kHz	1 kHz	
Australië	50 kHz	9 kHz	—	
Andere zones	50 kHz	9 kHz of 10 kHz	—	

Een AM kanaalscheidingsschakelaar is voorzien op het achterpaneel voor keuze tussen trappen van 9 kHz of 10 kHz, naargelang de zone waarin u zich bevindt (niet voorzien op tuner voor Canada, G.B., Australië en het Europese vasteland).

Om de AM kanaalscheiding te wijzigen:

Zet het toestel eerst aan, en trek dan het netsnoer uit. Wacht enkele seconden en schakel dan de AM kanaalscheidingsschakelaar over zoals aangegeerd op Afb. 12, met de punt van een kogelpen.

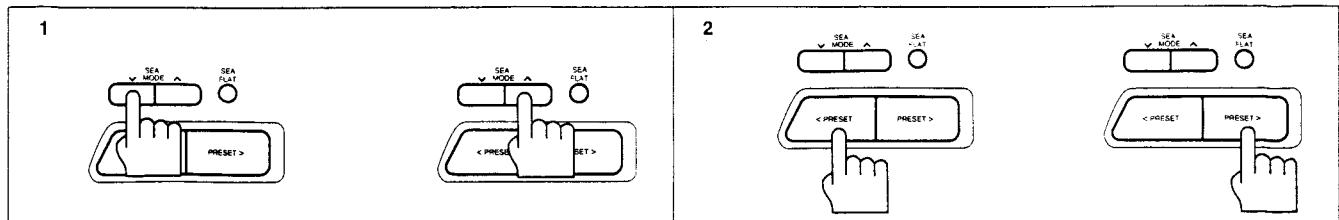
***2 Zet de DOLBY B NR- toets op ON om op te nemen met een Dolby-systeem ingeschakeld of om een op een Dolby-system opgenomen cassette weer te geven.**

* Dolby ruisonderdrukking geproduceerd onder licentie van: Dolby Laboratories Licensing Corporation.

"DOLBY" en het dubbel D symbol zijn handelsmerken van: Dolby Laboratories Licensing Corporation

OPERATIONS

How to use S.E.A. GRAPHIC EQUALIZER CONTROL



Using the SEA

The SEA (Sound Effect Amplifier) divides the audio frequency band into seven bands and boosts or cuts each band. There are 51 band boost/cut control patterns stored in memory. The control patterns are roughly classified into six SEA modes: POPS, JAZZ, ROCK, MOVIE, CLASSIC, and FLAT. There are 10 control patterns for each of the SEA modes other than FLAT. The features of the SEA modes are as follows:

POPS	Good for vocal music.
JAZZ	Gives a feeling of live atmosphere.
ROCK	Boosted low and high frequencies.
MOVIE	Adds breadth to the sound so you feel like you're in a movie theater.
CLASSIC	Set for wide and dynamic sound stereo systems.
FLAT	Makes all frequency bands flat, without boosting or cutting them. Used to suppress the SEA effect.

1. Select the SEA mode.
Use SEA MODE.
Each press of the SEA MODE button changes the mode displayed in the following order.

POPS ↔ JAZZ ↔ ROCK
↓ ↑
FLAT ↔ CLASSIC ↔ MOVIE

2. Select a SEA pattern.
Use PRESET < , >.
Each time it is pressed, the pattern changes as follows:

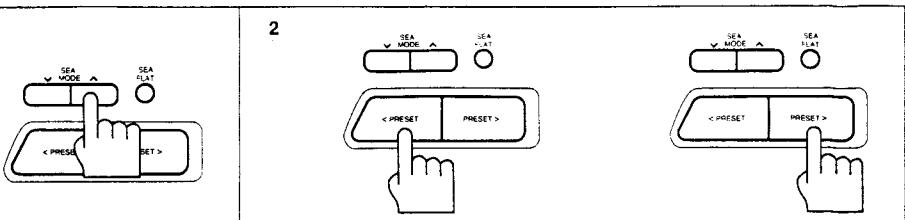
1 ↔ 2 ↔ 3 ↔ 4 ↔ 5
↓ ↑
10 ↔ 9 ↔ 8 ↔ 7 ↔ 6

Multi-Source-Related Effect Control

The Multi-Source-Related Effect Control automatically recalls the SEA pattern for each source. When MSEC is turned on by pressing the MSEC ON/OFF button, the remote controller automatically controls as follows. The SEA patterns are stored in memory for each source when you turn the power off or change the source. The SEA pattern kept in memory is recalled automatically when you select a source. So you do not need to set the SEA pattern again each time you change the source, thus eliminating complicated operations.

OPERACIONES

Cómo se utiliza el CONTROL DEL ECUALIZADOR GRAFICO S.E.A.



Utilización del SEA

El SEA (Amplificador del Efecto de Sonido) divide la banda de frecuencia audio en siete bandas, y realiza o corta cada una de ellas. Hay 51 patrones de control de realce/corte de banda almacenados en la memoria. Los patrones de control están clasificadas grosso modo en seis modos SEA: Música pop (POPS), jazz (JAZZ), música rock (ROCK), película (MOVIE), música clásica (CLASSIC), plano (FLAT). Existen 10 patrones de control para cada uno de los modos SEA, excepto el modo plano (FLAT). Las prestaciones de los modos SEA son las siguientes:

Pop (POPS)	Adecuado para la música vocal.
Jazz (JAZZ)	Genera una sensación ambiental de actuación en vivo.
Rock (ROCK)	Realiza las frecuencias bajas y altas.
Película (MOVIE)	Añade cuerpo al sonido, de forma que Vd se sienta como en una sala de cine.
Clásica (CLASSIC)	A utilizar para sistemas de sonido estéreo amplio y dinámico.
Plano (FLAT)	Hace planas todas las bandas de frecuencia, sin realzarlas o cortarlas. Utilizado para suprimir el efecto SEA.

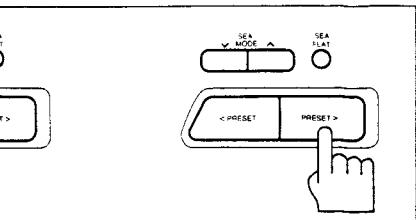
1. Seleccione el modo SEA.
Utilice el control del modo SEA (SEA MODE).
Cada pulsación del botón de modo SEA (SEA MODE) cambia el modo visualizado según el orden siguiente.
Música pop ↔ jazz ↔ música rock (POPS) (JAZZ) (ROCK)
↓ ↑
película ↔ música clásica ↔ plano (FLAT) (CLASSIC) (MOVIE)
2. Seleccione un patrón SEA.
Utilice el botón de patrón preestablecido (PRESET) < , >.
Cada vez que se pulse, el patrón cambiará como sigue:
1 ↔ 2 ↔ 3 ↔ 4 ↔ 5
↓ ↑
10 ↔ 9 ↔ 8 ↔ 7 ↔ 6

Control del efecto relacionado con fuente múltiple

El control de efecto relacionado con fuente múltiple (MSEC) ilumina el patrón SEA para cada fuente. Cuando se active dicho efecto (MSEC) pulsando el botón de activación/desactivación del control de efecto de fuente múltiple (MSEC ON/OFF), el controlador remoto operará automáticamente como sigue. Los patrones SEA se almacenarán en memoria para cada fuente cuando se apague la unidad o se cambie la fuente de sonido. El patrón SEA mantenido en memoria se recuperará automáticamente cuando se selecciona una fuente. Por lo tanto, Vd no necesitará establecer otra vez el patrón SEA cada vez que cambie la fuente de sonido, eliminando así operaciones complicadas.

BEDIENING

Gebruik van de S.E.A. GRAFFISCHE EQUALISER



Gebruik van SEA

De SEA (Sound Effect Amplifier) verdeelt de audiofrequentieband in zeven banden en versterkt of verwakt elke band. Er zijn 51 bandversterking/verzwakking regelpatronen vastgelegd in het geheugen. De regelpatronen worden onder één van de zes SEA standen gerangschikt: POPS, JAZZ, ROCK, MOVIE, CLASSIC en FLAT. Er zijn 10 regelpatronen voor elke SEA stand, uitgezonderd voor FLAT. Dit zijn de kenmerken van de SEA standen:

POPS	Geschikt voor vokale muziek.
JAZZ	Creërt een live gevoel.
ROCK	Versterkt de hoge en lage frequenties.
MOVIE	Geeft je de indruk dat je in een bioscoop zit.
CLASSIC	Voor een stereosysteem met een brede en dynamische klank.
FLAT	Vervlakt alle frequentiebanden zonder ze te versterken of te verzwakken. Wordt gebruikt om het SEA effect te onderdrukken.

1. Kies de SEA stand.
Gebruik SEA MODE.
Bij elke druk op de SEA MODE toets verandert de aangegeven stand als volgt.

POPS ↔ JAZZ ↔ ROCK
↓ ↑
FLAT ↔ CLASSIC ↔ MOVIE

2. Kies een SEA patroon.
Gebruik PRESET < , >.
Bij elke druk verandert het patroon als volgt.
1 ↔ 2 ↔ 3 ↔ 4 ↔ 5
↓ ↑
10 ↔ 9 ↔ 8 ↔ 7 ↔ 6

Multi-Source-Related Effect Control

Multi-Source-Related Effect Control roept automatisch het SEA patroon voor elke bron weer op. Als MSEC is ingeschakeld door op de MSEC ON/OFF toets te drukken, regelt de afstandsbediening automatisch als volgt.

De SEA patronen worden voor elke bron in het geheugen bewaard wanneer u de spanning uitschakelt of de bron verandert. Het SEA patroon dat in het geheugen is bewaard wordt automatisch opgeroepen als u een bron kiest. U hoeft het SEA patroon dus niet telkens opnieuw in te stellen wanneer u de bron verandert; ingewikkelde bewerkingen zijn dus overbodig.

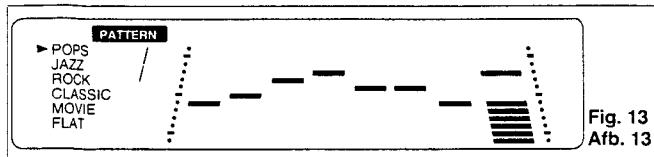


Fig. 13
Afb. 13

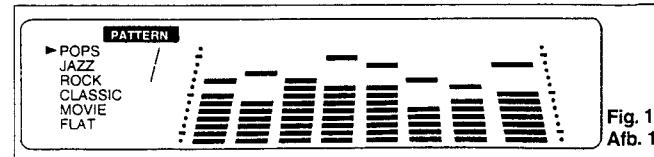


Fig. 14
Afb. 14

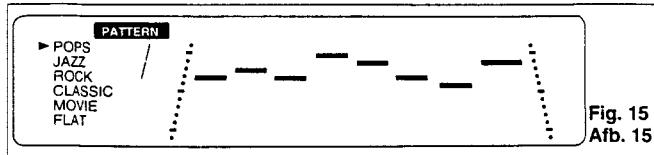


Fig. 15
Afb. 15

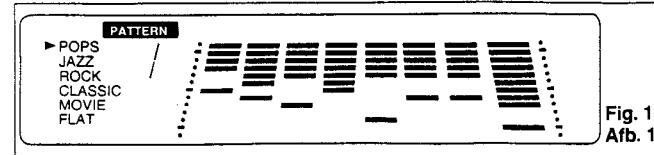


Fig. 16
Afb. 16

Display change

You can change between the SPI (Spectrum Analyzed Indicator) and SEA Level Indicator. When you select SPI, you can select one of three methods:

To change the display, press the DISPLAY button.

Each time you press the DISPLAY button, the SEA Level Indicator changes as follows:

SEA Level Indicator (Fig. 13)

↓
PEAK HOLD (Fig. 14)

↓
PEAK LINE (Fig. 15)

↓
SHOWER (Fig. 16)

↓
(back to the beginning)

Cambio de visualización

Vd podrá cambiar entre el SPI (Indicador de Espectro Analizado) y el indicador del nivel SEA. Cuando seleccione el SPI, podrá seleccionar uno de tres métodos:

Para cambiar la visualización, pulse el botón de visualización (DISPLAY), el indicador de nivel SEA cambiará como sigue:

Indicador de nivel SEA (Fig. 13)

↓
Retención de máximo (PEAK HOLD) (Fig. 14)

↓
Línea máxima (PEAK LINE) (Fig. 15)

↓
Ducha (SHOWER) (Fig. 16)

↓
(vuelta al principio)

Verandering van display

U kan schakelen tussen de SPI (Spectrum Analyzed Indikator) en de SEA Level Indikator.

Als u SPI kiest, kan u één van deze drie methoden kiezen:

Om de display te veranderen, druk op de DISPLAY toets.

Bij iedere druk op de DISPLAY toets verandert de SEA Level Indikator als volgt:

SEA Level Indikator (Afb. 13)

↓
PEAK HOLD (Afb. 14)

↓
PEAK LINE (Afb. 15)

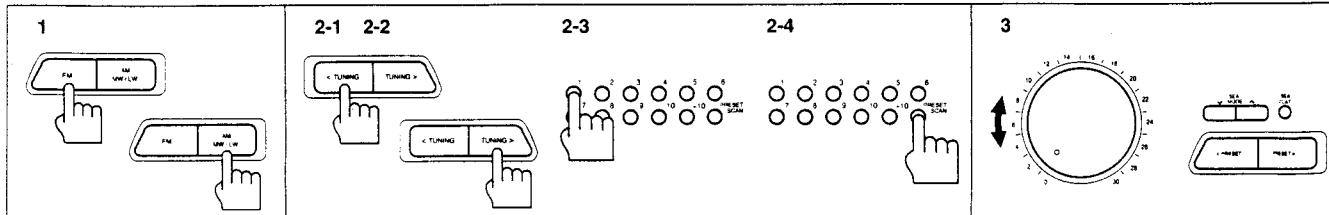
↓
SHOWER (Afb. 16)

↓
(terug naar het begin)

LISTENING TO BROADCASTS

ESCUCHAR EMISIONES DE RADIO

LUISTEREN NAAR RADIO-UITZENDINGEN



1. Press the FM or AM button.

2. Tune in a station.

The TUNED indicator will light when your receiver has located broadcast correctly. The STEREO indicator lights to indicate the reception of stereo sound while tuning in an FM broadcast.

2-1. Manual tuning

Hold the TUNING (< or >) button pressed to sample frequencies continuously, or press once to seek frequencies in predetermined steps. (See *1, page 15.)

2-2. Auto-tuning

Press the TUNING (< or >) button for longer than 1 second and release, and the receiver will start scanning and halt on reception of a broadcast.

2-3. Preset tuning

Press the preset stations buttons to tune in preset stations. The frequency/channel indicator will revert to the frequency display after displaying a preset channel number for about 2 seconds.

2-4. Preset Scan Tuning

The PRESET SCAN button samples preset stations each for 4 seconds.

When the desired station is located, press the PRESET SCAN button again while the channel number is flashing.

3. Adjust the sound volume and tone to your taste.

1. Pulse la tecla FM o AM.

2. Sintonice una emisora.

El indicador TUNED (Sintonizado) se iluminará cuando su receptor haya sintonizado correctamente una emisora. El indicador STEREO se ilumina para indicar que se recibe sonido en estéreo al sintonizar una emisora de FM.

2-1. Sintonización manual

Mantenga pulsada la tecla TUNING (< o >) para obtener muestras de frecuencias de forma continua, o bien, púlsela una vez para buscar frecuencias en incrementos definidos previamente. (Ver *1, página 15.)

2-2. Sintonización automática

Pulse la tecla TUNING (< o >) durante más de un segundo y suéltela; el receptor comenzará a explorar la banda y se detendrá al recibir una emisión.

2-3. Sintonización preestablecida

Pulse las teclas de emisiones preestablecidas. El indicador de frecuencia/canal mostrará la frecuencia tras presentar durante aproximadamente dos segundos un número del canal preestablecido.

2-4. Búsqueda preestablecida

La tecla PRESET SCAN muestra las emisoras preestablecidas durante cuatro segundos cada una.

Una vez localizada la emisora deseada, pulse de nuevo la tecla PRESET SCAN mientras el número de canal está parpadeando.

3. Ajuste el volumen de sonido y el tono al nivel deseado.

1. Druk op de FM-of AM-toets.

2. Stem af op een zender.

De TUNED-indicator gaat aan zodra uw tuner/versterker juist is afgestemd. De STEREO-indicator gaat aan om de ontvangst van stereo geluid aan te geven tijdens het afstemmen op een FM-zender.

2-1. Manueel afstemmen

Houd de TUNING (< of >)-toets ingedrukt om frekentie continu af te tasten of druk éénmaal op de toets om frekentie te zoeken in voorafgestelde stappen. (Zie *1, pag. 15.)

2-2. Automatisch afstemmen

Druk de TUNING (< of >)-toets langer dan één seconde en laat ze dan los, waarna de tuner/versterker de band begint af te tasten en blijft stilstaan bij ontvangst van een zender.

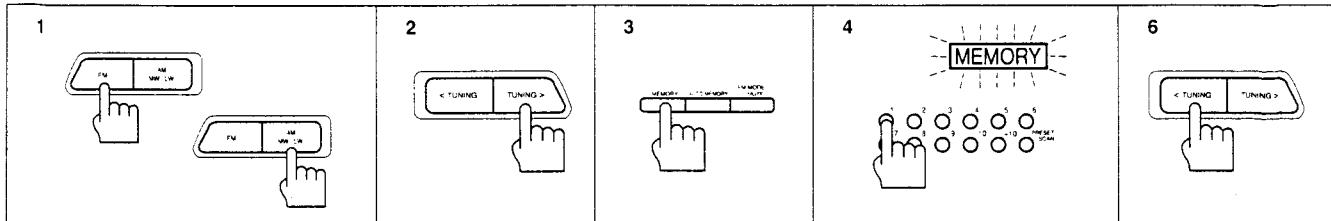
2-3. Afstemmen op voorkeuzezenders

Druk op de voorkeuzezenders-toetsen om af te stemmen op voorafgestelde zenders. De frekentie/kanaal-indicator geeft de frekentie aan nadat gedurende ongeveer 2 seconden het kanaalnummer van de voorkeuzezender op de display is verschoven.

2-4. Voorkeuzezenders kort aftenen

Als u op de PRESET SCAN-toets drukt, worden alle voorkeuzezenders gedurende vier seconden weergegeven. Als de gewenste zender gevonden is, drukt u opnieuw op de PRESET SCAN-toets terwijl het kanaalnummer knippert.

3. Stel volume en toonaard in volgens uw smaak.



FM MODE/MUTE

- Normally, press the FM MODE/MUTE button to light AUTO indicator. When a FM stereo broadcast is tuned, STEREO indicator lights and stereo mode is selected automatically.
- If attenuated or distorted signal is received and a lot of noise is generated, press the FM MODE/MUTE button again to select monaural mode. Then, AUTO indicator goes off and clear sound with reduced noise will be heard at the cost of STEREO mode.

Note:

- When listening to FM stereo broadcast, make sure AUTO indicator is on. If not, STEREO mode is canceled.

To preset stations

- Press the FM or AM button.
 - Tune in a station with the TUNING (< or >) button.
 - Press the MEMORY button making sure the MEMORY indicator lights.
 - While the MEMORY indicator is on (for about 5 seconds), press the preset stations button in which you want the station programmed.
 - Repeat Step 1 — 4 above.
- You can program a total of up to 40 FM and AM stations.

Note:

- You cannot program stations while the MEMORY indicator is off. When the MEMORY indicator is off, press the MEMORY button again.

Auto memory programming

- Select the lowest frequency of FM or AM available, or any frequency lower than the frequency you want programmed in memory.

SILENCIADOR DE FM

- Pulse la tecla FM MODE/MUTE y se encenderá el indicador AUTO. Cuando sintonice una emisora de FM, se encenderá el indicador STEREO y se seleccionará automáticamente el modo estéreo.
- Si se recibe una señal atenuada o distorsionada y se genera mucho ruido de fondo, pulse de nuevo FM MODE/MUTE para pasar al modo monoaural. El indicador AUTO se apagará y obtendrá un sonido claro y sin apenas ruido de fondo. Este sonido no será estéreo.

Nota:

- Cuando escuche una emisora de FM, asegúrese de que el indicador AUTO está encendido. En caso contrario, no recibirá estéreo.

Para preselecciónar emisoras

- Pulse la tecla FM o AM.
 - Sintonice una emisora mediante la tecla TUNING (< o >).
 - Pulse la tecla MEMORY asegurándose de que el indicador de memoria se ilumina.
 - Mientras el indicador MEMORY permanece encendido (durante 5 segundos aproximadamente), pulse la tecla de preselección de emisoras en la que quiere que la emisora quede programada.
 - Repita los pasos 1 — 4.
- Puede programar hasta un total de 40 emisoras de FM y AM.

Nota:

- No se pueden programar emisoras mientras el indicador MEMORY está apagado. Cuando esto ocurra, pulse de nuevo la tecla MEMORY.

Programación de la memoria automática

- Seleccione la menor frecuencia de FM o AM disponible, o cualquier frecuencia inferior a la que usted deseé programar.

FM MODE/MUTE (stil-afstemming op FM-band)

- Druk in normale omstandigheden op de FM MODE/MUTE-toets, zodat de AUTO-indicator aangaat. Als u op een FM stereo-uitzending hebt afgestemd, gaat de STEREO-indicator aan en wordt de uitzending automatisch in stereo weergegeven.
- Als een gedempt of gestoord signaal wordt ontvangen met veel ruis, druk dan opnieuw op de FM MODE/MUTE-toets om de monostand te selekteren. Dan gaat de AUTO-indicator uit en u hoort een zuiver geluid met minder ruis, maar niet langer in stereo.

Opmerking:

- Let er bij het luisteren naar een FM stereo-uitzending steeds op dat de AUTO-indicator wel degelijk aan is. Zonet krijgt u geen STEREO-weergave.

Zender voorkiezen

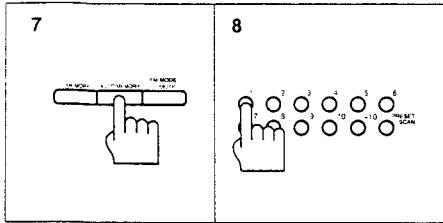
- Druk op de FM-of AM-toets.
- Stem af op een zender met de TUNNING (< of >)-toets.
- Druk op de MEMORY-toets (geheugen) en let er op dat de MEMORY-indicator wel degelijk aangaat.
- Terwijl de MEMORY-indicator aan is (gedurende ongeveer 5 seconden), drukt u de voorkeuzezender-toets in waarop u de zender wilt programmeren.
- Herhaal stappen 1 — 4 hierboven.
U kunt in totaal 40 FM-en AM-zenders programmeren.

Opmerking:

- U kunt geen zenders programmeren als de MEMORY-indicator uit is. Als de MEMORY-indicator uit is, drukt u opnieuw op de MEMORY-toets.

Automatische geheugenprogrammering

- Kies de laagste beschikbare FM-of AM-frequentie of elke frequentie onder degene die u wilt programmeren.



7. Press the AUTO MEMORY button.
 - A channel number will flash for about 5 seconds.
8. While the channel number is flashing, press a desired preset stations button.
 - The selected station is automatically programmed in the preset stations button just pressed.
 - To bypass a station, press the AUTO MEMORY button again while the channel number is flashing and that station will be skipped from being programmed.
 - The search ends when auto memory programming is complete.

Notes:

- If a new station is programmed in a preset stations button in which another has already been programmed, it will override the existing station preset.
- Station presets could be cancelled if the power plug is disconnected from the outlet or power is interrupted. In this case, preset the stations again.
- When you want to stop auto memory, press TUNING (< or >) button.

7. Pulse la tecla AUTO MEMORY.
 - Un numero de canal parpadeará durante unos 5 segundos.
8. Mientras el número de canal está parpadeando, pulse la tecla de preselección de emisoras deseada.
 - La emisora seleccionada se programa automáticamente programada en la tecla de preselección de emisoras pulsada.
 - Para ignorar una emisora, pulse de nuevo la tecla AUTO MEMORY mientras el número de canal está parpadeando y esa emisora no se programará.
 - La búsqueda finaliza cuando el programa de memoria automática está completo.

Notas:

- Si se programa una nueva emisora en una tecla de preselección de emisoras en la que ya había otra programada, se anulará la emisora prefijada existente.
- La preselección de emisoras puede cancelarse si se desconecta el aparato o se produce un corte de corriente. En ese caso, preseleccione las emisoras de nuevo.
- Oprima el botón TUNING (< o >) cuando desee detener la memoria automática.

7. Druk op de AUTO MEMORY-toets.
 - Een kanaalnummer knippert gedurende ongeveer 5 seconden.
8. Terwijl het kanaalnummer knippert drukt u op de gewenste voorkeuzezender-toets.
 - De gekozen zender wordt automatisch geprogrammeerd op de voorkeuzezender-toets die u net hebt ingedrukt.
 - Om een zender over te springen drukt u opnieuw op de AUTO MEMORY-toets terwijl het kanaalnummer knippert en deze zender wordt overgeslagen bij de programmering.
 - Het aftasten stopt wanneer de automatische geheugenprogrammering voltooid is.

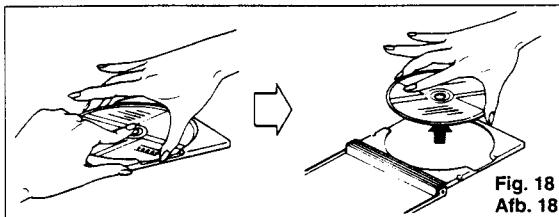
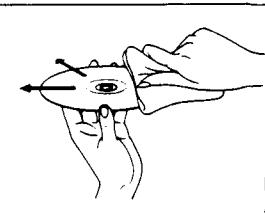
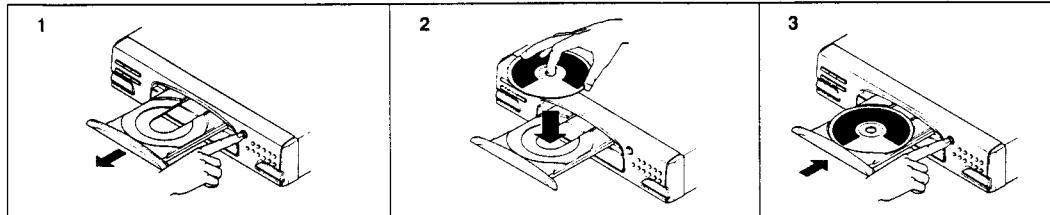
Opmerkingen:

- Als een nieuwe zender geprogrammeerd wordt op een voorkeuzezender-toets waarop al een zender is geprogrammeerd, dan wordt de bestaande zender door de nieuwe vervangen.
- Voorkeuzezender-instellingen kunnen worden gewist als de stekker uit het stopcontact wordt getrokken of een stroomonderbreking plaatsvindt. In dat geval moet u de zender opnieuw instellen.
- Druk de TUNING (< of >) toets in, wanneer u het automatische geheugen stop wilt zetten.

ABOUT DISCS

INFORMACION ACERCA DE
LOS COMPACT DISCS

OVER CD'S

Fig. 17
Afb. 17Fig. 18
Afb. 18Fig. 19
Afb. 19

Your CD player can play only those discs that bear the logo shown in Fig. 17.

To demount discs (Fig. 18)

- Lift off the disc while holding down in the center of the case.

To clean discs (Fig. 19)

- Remove fingerprints or dust from the surfaces of discs by wiping off lightly with a soft, dry cloth from center to outside.
- Never wipe discs in the circumferential direction.
- Never use record cleaners, record sprays, or solvents, such as thinner and benzine, to clean discs.

To mount discs

- Press the OPEN/CLOSE (▲) button.
- Mount a disc at the center of the disc platter, label side face-up.
- Press the OPEN/CLOSE (▲) button to retract the disc platter.

Note:

- When the playback is ended, press the OPEN/CLOSE (▲) button to demount the disc.

To handle discs

- Never leave scratches on the surfaces of discs. Failure to read signals, or noise, might result.
- Never stain the recorded sides (mirror surfaces) of discs or affix paper, adhesive tapes, or similar material to the label sides.
- Do not allow discs to be warped. Otherwise, malfunctions could result.

To store discs

- Store discs in dedicated cases to defend against scratches, damage, deformation, etc.; never place discs in places that are exposed to direct sunlight, dusty, near heaters, or in automobiles.

Su reproductor únicamente puede reproducir los discos que incluyen el logotipo mostrado en la Fig. 17.

Para extraer un disco del estuche (Fig. 18)

- Extraiga el disco mientras sujetla la parte central del estuche.

Para limpiar un disco (Fig. 19)

- Limpie las huellas dactilares y el polvo de la superficie del disco con un paño suave y seco, frotándolo desde el centro al exterior.
- Nunca limpie los discos en sentido circular.
- Nunca utilice productos de limpieza para discos, aerosoles para discos ni disolventes (diluyente o bencina) para limpiar los discos.

Para insertar los discos en el reproductor

- Pulse la tecla OPEN/CLOSE (▲).
- Inserte un disco en el centro del portadiscos, con la etiqueta hacia arriba.
- Pulse la tecla OPEN/CLOSE (▲) para introducir el portadiscos en el reproductor.

Nota:

- Cuando la reproducción finalice, pulse la tecla OPEN/CLOSE (▲) para extraer el disco.

Manipulación de los discos

- No raye las superficies del disco. El reproductor no podrá leer las señales o emitirá ruidos.
- No manche las caras grabadas (superficies reflectantes) de los discos, ni pegue papel, cinta adhesiva o materiales similares en la cara en que figura la etiqueta.
- Evite que se doblen los discos. De lo contrario, podría dañarse el sistema de reproducción.

Almacenamiento de los discos

- Guarde los discos en sus estuches para protegerlos de arañazos, daños, deformación, etc.; nunca los coloque en lugares en que puedan quedar expuestos a la luz directa del sol o al polvo, ni cerca de radiadores o en el interior de automóviles.

Uw CD-speler kan enkel de CD's afspeLEN die het in Afb. 17 afgebeelde logo dragen.

CD's uithalen (Afb. 18)

- Haal de CD uit het doosje door de centrale verhoging naar beneden te drukken terwijl u de CD optilt.

CD's schoonmaken (Afb. 19)

- Verwijder vingerafdrukken of stof van het oppervlak van de CD's door het lichtjes schoon te vegen van het midden naar buiten toe met een zachte, droge doek.
- Veeg de CD's nooit schoon door in de richting van de groeven te wrijven.
- Gebruik nooit platenreinigers, platenreinigingssprays of oplosmiddelen zoals verdunner of benzine om CD's te reinigen.

CD's inzetten

- Druk op de OPEN/CLOSE (▲)-toets.
- Zet een CD in precies centraal op de lader, met het label naar boven.
- Druk op de OPEN/CLOSE (▲)-toets om de lader weer in te voeren.

Opmerking:

- Als de CD volledig is afgespeeld, drukt u opnieuw op de OPEN/CLOSE (▲)-toets om de CD er uit te halen.

CD's behandelen

- Maak nooit krassen op het oppervlak van de CD's. Dit kan immers leesfouten of ruis tot gevolg hebben.
- Maak nooit vlekken aan de opnamezijde (spiegelloppervlak) van CD's en kleef ook nooit papier, kleefband of gelijkwaardig materiaal aan de labelzijde.
- Zorg ervoor dat de CD's niet kromtrekken, want dit kan een slechte werking tot gevolg hebben.

CD's bewaren

- Bewaar de CD's in de voorziene doosjes om ze te beschermen tegen krassen, schade, vervorming, enz; bewaar CD's nooit op plaatsen die zijn blootgesteld aan direct zonlicht, in een stoffige omgeving, in de buurt van verwarmingselementen of in auto's.

Notes:

- Sound volume control
Discs contain much less noise than analog records and tapes. If the sound volume is adjusted to a quiet portion of a song, an unexpected sound could be generated, causing damage to the speakers. To prevent this risk, remember to minimize the sound volume before starting to play a disc.
- Dew condensation
It sometimes happens in a cold season that dew is condensed inside the system immediately after the room heater is turned on, disabling normal system performance. In this case, demount the disc and leave it to stand at room temperature for hours. If the system failures still persists, call your dealer.

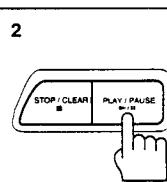
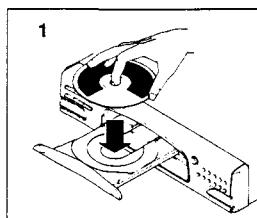
Notas:

- Control del volumen de sonido
Los discos compactos contienen mucho menos ruido que los discos y las cintas analógicos. Si se ajusta el volumen de sonido en un pasaje silencioso de una canción, podrá generarse posteriormente un sonido inesperadamente alto que puede causar daños a los altavoces.
Para evitar este riesgo, recuerde reducir el volumen de sonido antes de reproducir un disco.
- Condensación
A veces, en invierno, se produce condensación en el interior del sistema inmediatamente después de encender la calefacción de la habitación en que está instalado, impidiendo el funcionamiento normal del sistema. Si esto ocurre, extraiga el disco y déjelo a temperatura ambiente durante algunas horas. Si el problema persiste, póngase en contacto con su distribuidor.

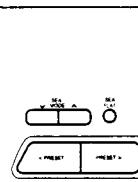
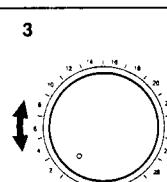
Opmerkingen:

- Klankvolumeregeling
CD's bevatten veel minder ruis dan analoge platen en cassettes. Als het klankvolume wordt ingesteld tijdens een stille passage in de muziek, kan een onverwachte lude klink optreden die schade aanricht aan de luidsprekers.
Om dit risico te voorkomen mag u niet vergeten het volume laag in te stellen voor u een CD begint af te spelen.
- Condensatie
In het koude seizoen kan soms condensatievorming in het apparaat optreden onmiddellijk nadat de verwarming wordt ingeschakeld, waardoor het apparaat niet meer normaal kan werken. In dat geval moet u de CD er uithalen en enkele uren op kamertemperatuur laten staan.
Als het apparaat daarna nog niet goed werkt, kunt u best uw dealer raadplegen.

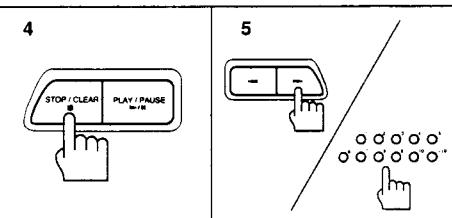
LISTENING TO DISCS



PARA ESCUCHAR DISCOS



LUISTEREN NAAR CD'S



1. Load a disc.
2. Press the PLAY/PAUSE (▶ / ■) button.
 - The source selector is automatically switched to CD.
 - Plays CD from the first tune.
 - If a track is selected using the numeric keys on the CD player, it is played without the PLAY/PAUSE (▶ / ■) button being pressed.
3. Adjust the volume and tone.
4. To halt playing, press the STOP/CLEAR (■) button.

To Locate the Beginning of the Tune.

5. Use the numeric keys on the CD player, or the (◀◀) or (▶▶) button to specify track numbers.
 - ▶▶ : Locates the beginning of the next tune.
 - ◀◀ : Locates the beginning of the tune being played or the preceding tune.
 - Pressing once of these buttons forwards or backwards the selection by one. Keeping these buttons pressed performs fast-forward or fast-rewind.
 - Display shows the selected tune number.

1. Coloque un disco.
2. Oprima el botón PLAY/PAUSE (▶ / ■).
 • El selector de fuente cambia automáticamente a CD.
 • Reproduce el CD a partir de la primera melodía.
 • Si se selecciona una pista utilizando las teclas numéricas en el reproductor de CD, la misma se reproducirá sin tener que pulsar el botón PLAY/PAUSE (▶ / ■).
3. Ajuste el volumen y el tono.
4. Para interrumpir la reproducción, oprima el botón STOP/CLEAR (■).

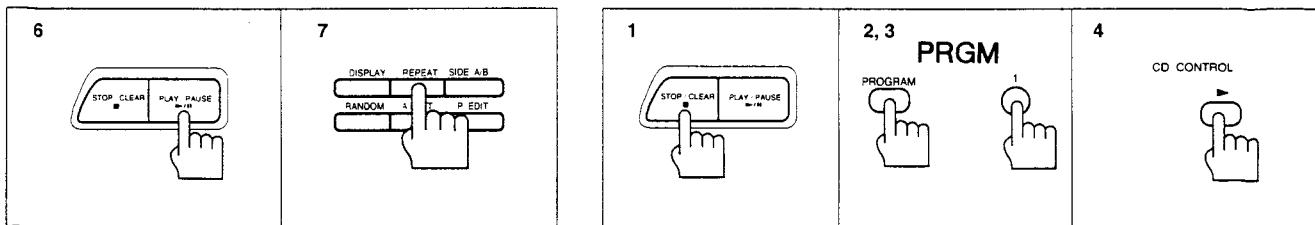
Para Localizar el Comienzo de la Melodía.

5. Utilice las teclas numéricas en el reproductor de CD, o el botón (◀◀) o (▶▶) para especificar los números de pista.
 ▶▶ : Localiza el comienzo de la melodía siguiente.
 ▶▶ : Localiza el comienzo de la melodía que se está reproduciendo o de la melodía anterior.
 • Si estos botones se mantienen oprimidos durante la reproducción se efectúa un avance o un retroceso rápido.
 • En la visualización se muestra el número de la melodía seleccionada.

1. Plaats een CD.
2. Druk op de PLAY/PAUSE (▶ / ■) toets.
 • De bron keuzetoets wordt automatisch op CD ingesteld.
 • CD-weergave start vanaf het eerste fragment.
 • Als u een fragment kiest aan de hand van de cijferstoeten van de CD-speler, wordt dit weergegeven zonder dat u de PLAY/PAUSE (▶ / ■)-toets hoeft in te drukken.
3. Stel het volume en de toon in.
4. Druk op STOP/CLEAR (■) toets om de weergave te stoppen.

Het begin van een fragment opzoeken.

5. Geef het fragmentnummer aan met de cijferstoeten van de CD-speler of met de (◀◀) of de (▶▶) toets.
 ▶▶ : Voor het instellen van het begin van het volgende fragment.
 ▶▶ : Voor het instellen van het begin van het spelende fragment of een voorgaand fragment.
 • De fragmenten worden in voorwaarde of terugwaarde richting versneld weergegeven indien u deze toetsen ingedrukt houdt.
 • Op het display wordt het ingestelde fragmentnummer getoond.



To Stop Playing Temporarily.

- Press the PLAY/PAUSE (▶ / II) button during playing to stop playing temporarily, and press it again to resume playing.
- The display shows II or ▶.

To Repeat Play

- Press the REPEAT button to repeat play.
- Pressing of this button changes the indicator as follows:
REPEAT → REPEAT 1 → (indicator off)
REPEAT: Repeats all the tunes of the disc or programmed play.
REPEAT 1: Repeats one selection.

To Program Play

- Press the STOP/CLEAR (■) button.
- Press the CD 10 KEY and PROGRAM buttons of the remote control unit.
- Select tunes in your desired order with numeric keys (1 — 10, +10) of the remote control unit.
- You can program 32 selections maximum.
- The display shows the tune number and the order of the playing, and the total playing time.
- Playing time exceeding 99 minutes and 59 seconds will display - - : - - .
- Press the □ button of CD CONTROL section of the remote control unit.
- The PLAY/PAUSE (▶ / II) button of CD player can also start playing.
- To cancel the program, press the PROGRAM button again.

To Change Program

- Clear the program by pressing the PROGRAM button of the remote control unit. Carry out programming from the beginning. (To change during play, stop the play first.)

To Add Program

- Add tune number with the numeric key of the remote control unit. (Selected tune is added to the last of program.)

To Check the Order of Selections

- Stop the play to press the SEARCH (◀◀, ▶▶) button.

To Perform Random Play

- Press the RANDOM button.

Para Detener Momentáneamente la Reproducción

- Oprima el botón PLAY/PAUSE (▶ / II) durante la reproducción para detener momentáneamente la reproducción, y oprímalo nuevamente para reanudar la reproducción.
- En la visualización se muestra II o ▶.

Para Repetir la Reproducción

- Oprima el botón REPEAT para repetir la reproducción.
- Si se oprime este botón el indicador cambia según se indica a continuación:
REPEAT → REPEAT 1 → (indicador desactivado).

REPEAT: Repite todas las melodías del disco o de la reproducción programada.

REPEAT 1: Repite una selección.

Para programar la Reproducción

- Oprima el botón STOP/CLEAR (■).
- Oprima los botones CD 10 KEY y PROGRAM de la unidad de control remoto.
- Seleccione las melodías en el orden que desea, con las teclas numéricas (1 — 10, +10) de la unidad de control remoto.
- Ud. puede programar hasta un máximo de 32 selecciones.
- En la visualización se muestra el número de la melodía, el orden de reproducción, y el tiempo total de reproducción.
- El tiempo de reproducción que excede de 99 minutos y 59 segundos se visualiza según se indica a continuación - - : - - .
- Oprima el botón □ de la sección CD CONTROL de la unidad de control remoto.
- El botón PLAY/PAUSE (▶ / II) del reproduktor de CD también puede hacer que comience la reproducción.
- Para cancelar el programa, oprima nuevamente el botón PROGRAM.

Para Cambiar el Programa

- Borre el programa oprimiendo el botón PROGRAM del mando a distancia. Realice la programación desde el comienzo. (Para cambiar durante la reproducción, detenga primero la reproducción).

Para Adicionar Programa

- Adicione el número de melodía con la tecla numérica de la unidad de control remoto. (La melodía seleccionada se adiciona al final del programa).

Para Verificar el Orden de las Selecciones

- Detenga la reproducción para oprimir el botón SEARCH (◀◀, ▶▶).

Para Realizar Reproducción al Azar

- Oprima el botón RANDOM.

Tijdelijk onderbreken van de weergave.

- Druk tijdens weergave op de PLAY/PAUSE (▶ / II) toets om te pauzeren. Nogmaals drukken om de weergave voort te zetten.
- Het display toont II of ▶.

Herhaalde weergave

- Druk op de REPEAT toets om de weergave te herhalen.
- Door op deze toets te drukken, verandert de functie als volgt:
REPEAT → REPEAT 1 → (uitgeschakeld)

REPEAT: Alle fragmenten van de CD of geprogrammeerde fragmenten worden herhaald.

REPEAT 1: Slechts het spelende fragment wordt herhaald.

Geprogrammeerde weergave:

- Druk op de STOP/CLEAR (■) toets.
- Druk op de CD 10 KEY en PROGRAM toetsen van de afstandsbediening.
- Stel met de cijfertoetsen (1 — 10, +10) van de afstandsbediening de gewenste fragmenten in de gewenste volgorde in.
- U kunt maximaal 32 fragmenten programmeren.
- Op het display wordt het fragmentnummer, de geprogrammeerde volgorde en de totale weergavetijd getoond.
- Indien de weergavetijd 99 minuten en 59 seconden overschrijdt, wordt - - : - - op het display getoond.
- Druk op de □ toets van het CD CONTROL gedeelte van de afstandsbediening.

• U kunt de weergave tevens starten met de PLAY/PAUSE (▶ / II) toets van de CD-speler.

• Druk nogmaals op de PROGRAM toets om de geprogrammeerde weergave te annuleren.

Veranderen van het programma

- Druk op de PROGRAM toets van de afstandsbediening om het programma te annuleren. Programmeer vervolgens de nieuwe fragmenten. (Indien u tijdens weergave het programma wenst te veranderen, dient u de weergave eerst te stoppen.)

Toevoegen van fragmenten

- Voeg een fragmentnummer toe door op de overeenkomstige cijfertoets (en) van de afstandsbediening te drukken. (Dit fragment wordt aan het eind van het programma toegevoegd.)

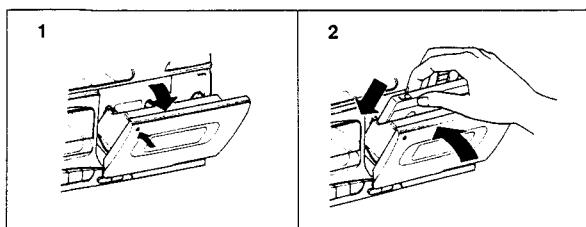
Kontroleren van het programma

- Stop de weergave en druk op de SEARCH (◀◀, ▶▶) toets.

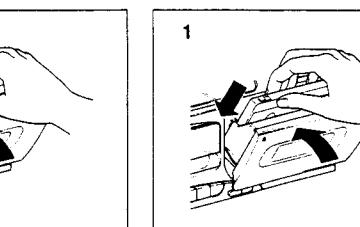
Willekeurige weergave

- Druk op de RANDOM toets.

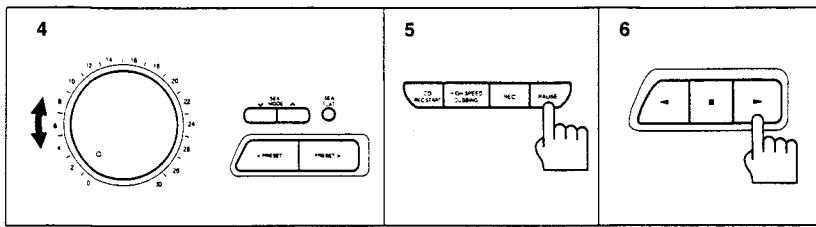
**LISTENING TO TAPES,
RECORDING, DUBBING**



**AUDICION DE CINTAS,
GRABACION, COPIA**



**LUISTEREN NAAR CASSETTES,
OPNEMEN, KOPIËREN**



- Recording can be made only with deck B, but playing is available with both decks A and B.

To load tapes

- Press the PUSH OPEN (▲) to open the cassette holder.
- Load a tape and close the cassette holder. Set with the tape facing downward.
- Press PUSH OPEN (▲) to remove the cassette. The cassette holder will open.

LISTENING TO TAPES

- Load a tape.
- When listening to a tape that has been recorded on a Dolby system, set the DOLBY B NR button ON, making sure its indicator lights. (See "2 page 15.)
- Press the (►) or (◀) button.
 - The source will be switched to TAPE automatically.
- Adjust the sound volume and tone to your taste.

To pause (Deck B only)

- Press the PAUSE button.
 - To resume the play, press either the (►) or (◀) button.

To stop

- Press the (■) button.

Auto reverse feature

Press the REVERSE MODE button to turn its indicator on or off.

On: The tape deck repeatedly plays both sides of a tape.

Off: The tape deck plays one side of a tape, and stops.

- Each time you press the button, the indicator toggles between on and off states.

Continuous playing

- Your receiver is equipped with the continuous playing mode.

- Load a tape to deck A and deck B.
- Press the (◀) or (►) button.

The cassettes in decks A and B are played alternately and repeatedly. When playback of the cassette in decks A ends, the cassette in deck B is played automatically.

If REVERSE MODE is turned on, both sides of the cassettes in decks A and B are played. If REVERSE MODE is turned off, only one side for each deck is played. When the playing of one side for one deck ends, the cassette in the other deck is played. The cassette in the deck that has stopped is rewound.

- Press the (■) button to stop.

- Unicamente puede grabar cintas en la platina B, pero puede reproducirlas tanto en la A como en la B.

Para insertar una cinta

- Pulse la tecla PUSH OPEN (▲) para abrir el portacassette.
- Introduzca una cinta y cierre el portacassette, con la cinta hacia abajo.
- Pulse el botón de apertura PUSH OPEN (▲) para retirar el cassette. El portacassettes se abrirá.

AUDICION DE CINTAS

- Introduzca una cinta.
- Cuando escuche una cinta grabada en un sistema Dolby, ajuste la tecla DOLBY B NR a la posición ON, asegurándose de que se ilumina el indicador correspondiente. (Ver "2, página 15.)
- Pulse la tecla (►) o (◀).
 - La fuente cambiará automáticamente a TAPE (Cinta).
- Ajuste el volumen de sonido y el tono al nivel deseado.

Para realizar una pausa (Platina B únicamente)

- Pulse la tecla PAUSE.
 - Para reanudar la reproducción, pulse la tecla (►) o (◀).

Para interrumpir la reproducción

- Pulse la tecla (■).

Dispositivo autorreversible

Pulse la tecla REVERSE MODE para situar el indicador en posición "on" u "off".

On: La platina reproduce ambas caras de la cinta.

Off: La platina reproduce una cara de la cinta y se detiene.

- Cada vez que pulse esta tecla, el indicador cambiará de "on" a "off" o viceversa.

Reproducción continua

- Su receptor cuenta con el modo de reproducción continua.

- Coloque una cinta tanto en el magnetófono A como en el magnetófono B.
- Oprima el botón (◀) o (►).

Los cassettes en las platinas A y B se reproducen repetidamente y de forma alternada. Cuando termine la reproducción del cassette en la platina A, la unidad reproducirá el cassette en la platina B automáticamente.

Si se activa el modo inverso (REVERSE MODE), se reproducirán ambas caras en las platinas A y B.

Si se desactiva el modo inverso (REVERSE MODE), solamente se reproducirá una cara por platina. Cuando la reproducción finalice en una platina, el cassette insertado en la otra platina será reproducido. El cassette en la platina que haya parado será rebobinado.

- Oprima el botón (■) para detener.

- U kunt enkel opnemen met deck B, maar afspelen is mogelijk met dec A en B.

Cassettes inzetten

- Druk op PUSH OPEN (▲) om de cassettehouder te openen.
- Zet een cassette in en sluit de cassettehouder. Zet de cassette in met de open kant naar beneden.
- Druk op PUSH OPEN (▲) om de cassette te verwijderen. De cassettehouder gaat open.

CASSETTES BELUISTEREN

- Zet een cassette in.
- Zet bij het beluisteren van een cassette die in Dolby werd opgenomen de DOLBY B NR-toets op ON en let er daarbij op dat de indicator aangaat. (Zie "2, pag. 15.)
- Druk op de (►) of (◀)-toets.
 - De bron gaat automatisch over op TAPE.
- Stel volume en toon in volgens uw voorkeur.
- Druk op de PAUSE-toets.
 - Om het afspelen te hervatten drukt u op de (►) of de (◀)-toets.

Cassettes stopzetten

- Druk op de (■)-toets.

Automatische bandomkeer

Druk op de REVERSE MODE-toets (omkeertoets) om de bijhorende indicator aan of uit te schakelen.

Aan: Het cassettedeck speelt beide kanten van een cassette continu na elkaar af.

Uit: Het cassettedeck speelt één kant van een cassette en stopt op het einde van de band.

- Tekens als u de toets indrukt, gaat de indicator over van aan naar uit en omgekeerd.

Kontinue weergave

- Uw ontvanger is uitgerust met een functie voor kontinue weergave.

- Plaats een cassette in deck A en deck B.
- Druk de (◀) of (►)-toets in.

De cassettes in deck A en B worden om de beurt en herhaaldelijk weergegeven. Zodra de weergave van de cassette in deck A eindigt, wordt de cassette in deck B automatisch weergegeven.

Als REVERSE MODE is ingeschakeld, worden beide kanten van de cassettes in deck A en B weergegeven. Als REVERSE MODE is uitgeschakeld, wordt slechts één kant per deck weergegeven. Wanneer de weergave van één kant op een deck wordt beëindigd, wordt de cassette in het andere deck weergegeven. De cassette in het deck dat is gestopt wordt teruggespoeld.

- Druk de (■) toets in om de weergave te stoppen.

Notes:

- When loading the tape to both deck A and B, the deck automatically plays in continuous playing mode.
- Before turning the power OFF, be sure to release the cassette deck's playback or recording mode.

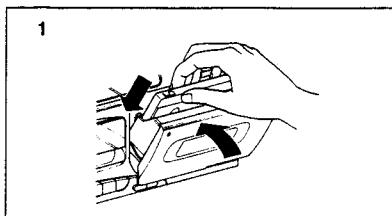
Notas:

- Cuando coloque las cintas tanto en el magnetófono A como en el B, el magnetófono reproduce automáticamente en el modo de reproducción continua.
- Antes de apagar el aparato, asegúrese de desconectar el modo de reproducción o grabación.

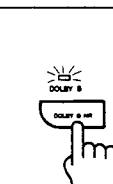
Opmerkingen:

- Wanneer u een cassette plaatst in zowel deck A als deck B dan wordt automatisch de continue weergavefunctie ingeschakeld.
- Voor u het apparaat op OFF zet, moet u de weergave- of opnamestand uitschakelen.

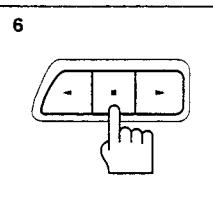
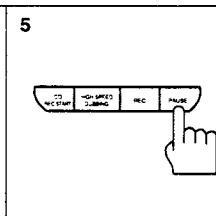
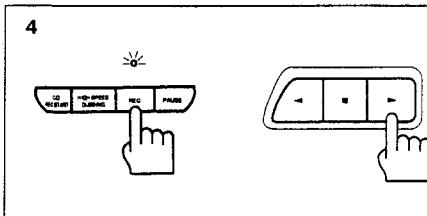
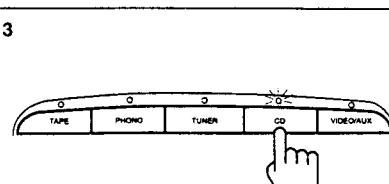
RECORDING (Deck B only)



GRABACION (Platina B únicamente)



OPNEMEN (Enkel Deck B)



- The built-in auto level control circuit in the receiver saves you the trouble of adjusting the recording level.
 - The following control buttons do not affect recording. VOLUME, BALANCE, SURROUND, BASS COMPENSATOR
 - You can add the SEA effect to the tape. If you do not want to add the SEA effect, select the SEA FLAT mode.
- Load a tape on deck B.
 - To record the tape with a Dolby system on, set the DOLBY B NR button ON, making sure its indicator lights. (See *2, page 15.)
 - Play back the source to record. (PHONO, TUNER, CD, VIDEO/AUX)
 - Press the REVERSE MODE button to turn its indicator on or off.
- On: Recording of both sides of cassette
Off: One-sided recording.
- Press the (►) or (◀) button while holding down the REC button, or press the REC button and the PAUSE at the same time to set the deck in REC PAUSE mode, and press the (►) or (◀) button to start recording.

To pause recording

- Press the PAUSE button.
 - To resume recording, press the (►) or (◀) button.

To stop recording

- Press the (■) button.

- El circuito de sintonización del nivel de grabación incorporado al receptor le evita tener que ajustar el nivel de grabación.
 - Los botones de control siguientes no afectan a la grabación. Volumen (VOLUME), balance (BALANCE), sonido ambiental (SURROUND), compensador de tonos graves (BASS COMPENSATOR)
 - Vd podrá añadir el efecto SEA a la cinta. Si no desea añadir el efecto SEA, seleccione el modo SEA de sonido plano (SEA FLAT).
- Introduzca una cinta en la Platina B.
 - Para grabar la cinta en el sistema Dolby, ajuste la tecla DOLBY B NR a la posición ON, asegúndose de que se enciende el indicador correspondiente. (Ver 2, página 15.)
 - Ponga en marcha la fuente desde la que desea realizar la grabación (PHONO, TUNER, CD, VIDEO/AUX).
 - Pulse la tecla REVERSE MODE para situar el indicador en posición on u off.
- On: Activado: Grabación en ambas caras del cassette
Off: Grabación en una sola cara.
- Pulse la tecla (►) o (◀) mientras mantiene pulsada la tecla REC, o bien pulse las teclas REC y PAUSE a la vez para poner la Platina en modo de REC PAUSE, y pulse (►) o (◀) para comenzar la grabación.

Para realizar una pausa en la grabación

- Pulse la tecla PAUSE.
 - Para reanudar la grabación pulse (►) o (◀).

Para interrumpir la grabación

- Pulse la tecla (■).

- De ingebouwde automatische opnameniveau-regeling in de tuner/versterker bespaart u de moeite van het instellen van het opnameniveau.
- De volgende bedieningstoetsen hebben geen invloed op de opname. VOLUME, BALANCE, SURROUND, BASS COMPENSATOR
- U kan het SEA effect aan de band toevoegen. Als u het SEA effect niet wenst toe te voegen, kies de SEA FLAT stand.

- Zet een cassette in deck B.
- Om een cassette op te nemen in Dolby, moet u de DOLBY B NR-toets op ON zetten en er daarbij op letten dat de indicator aangaat. (Zie *2, pag. 15.)

- Begin de op te nemen bron af te spelen (PHONO, TUNER, CD, VIDEO/AUX)
 - Druk op de REVERSE MODE-toets om de bijhorende indicator aan of uit te zetten.

Aan: Opname van beide kanten van de cassette
Uit: Opnemen aan één kant.

- Druk op de (►) of (◀)-toets terwijl u de REC toets ingedrukt houdt, of druk tegelijk op de REC-toets en de PAUSE-toets om het deck in de REC PAUSE-stand te zetten en druk dan op de (►) of (◀)-toets om de opname te starten.

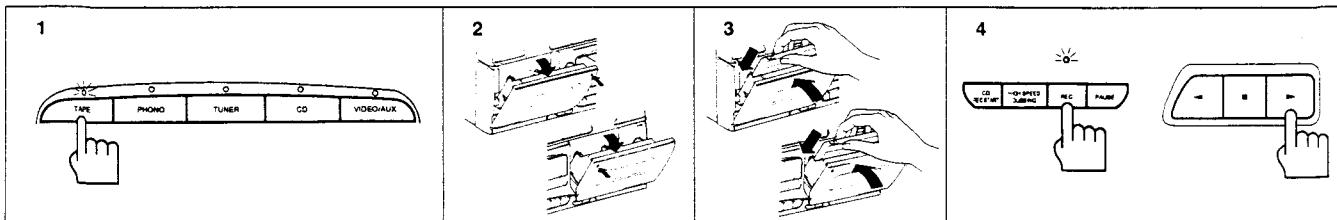
Opname pauze

- Druk op de PAUSE-toets.
 - Om de opname te hervatten drukt u op de (►) of (◀)-toets.

Opname stopzetten

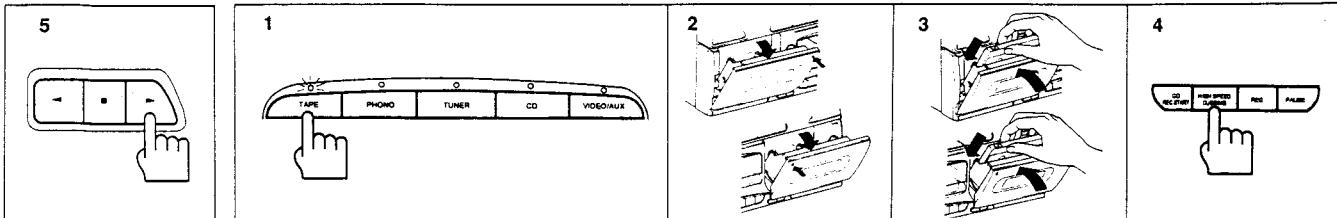
- Druk op de (■)-toets.

DUBBING (from deck A to deck B)



COPIA (desde la platina A a la platina B)

KOPIEREN (van deck A naar deck B)



Normal dubbing

1. Press the "TAPE" source selector button.
2. Press PUSH OPEN (▲) on decks A and B to open their cassette holders.
3. Load a play tape in deck A and a recording tape in deck B.
4. Set deck B in record mode. (Press the (◀, ▶) button while holding down the REC button.)
5. Set deck A in play mode. (Press the (◀, ▶) button.)

High-speed dubbing

1. Press the "TAPE" source selector button.
2. Press PUSH OPEN (▲) on decks A and B to open their cassette holders.
3. Load a play tape in deck A and a recording tape in deck B.
4. Press the HIGH SPEED DUBBING button.

To stop dubbing

Normal dubbing: Press the (■) buttons on decks A and B.

High-speed dubbing: Press the (■) button on deck B.

Notes:

- Before dubbing is made, check the running direction of deck B by the TAPE RUNNING INDICATOR. To change (◀) to (▶), while holding down (■) button, press (▶) button.
- With the Dolby system on, tapes are recorded in the same Dolby mode as the prerecorded tape had been recorded, regardless of whether the DOLBY B NR button is ON or OFF. (The DOLBY B NR indicator is off while dubbing is in progress.)
- In high-speed dubbing, tape recording is independent of the source selector position, as well as the sound volume and tone settings, so you can listen to a source other than TAPE while dubbing. (If a source selector button other than TAPE is pressed during normal-speed dubbing, that source will be recorded.)
- SEA recording is not possible during normal or high speed dubbing.
- Use the same type of tape for dubbing as the original tape type.

Copia a velocidad normal

1. Pulse el botón selector de fuente de "cinta" ("TAPE").
2. Pulse PUSH OPEN (▲) en ambas platinas para abrir sus portacassettes.
3. Inserte una cinta ya grabada en la platina A y otra en blanco en la B.
4. Ponga la platina B en posición de grabación. (Pulse la tecla (◀, ▶) mientras mantiene apretada la tecla REC).
5. Ponga la platina A en posición de reproducción. (Pulse la tecla (◀, ▶)).

Copia a alta velocidad

1. Pulse el botón selector de fuente de "cinta" ("TAPE").
2. Pulse PUSH OPEN (▲) en ambas platinas para abrir sus portacassettes.
3. Inserte una cinta ya grabada en la platina A y otra en blanco en la B.
4. Pulse la tecla HIGH SPEED DUBBING.

Para interrumpir la copia

Copia a velocidad normal: Pulse las teclas (■) en ambas platinas.

Copia a alta velocidad: Pulse la tecla (■) en la platina B.

Notas:

- Antes de realizar el copiado verifique, mediante el TAPE RUNNING INDICATOR, el sentido de circulación en el magnetófono B. Para cambiar de (◀) a (▶), oprima el botón (▶) mientras mantiene el botón (■) oprimido.
- Con el sistema Dolby activado, las cintas se graban en el mismo modo Dolby que la cinta original, independientemente de que la tecla DOLBY B NR esté en la posición ON u OFF. (El indicador DOLBY B NR permanece apagado mientras se realiza la copia).
- En copia a alta velocidad, la grabación de la cinta se lleva a cabo con independencia de la posición del selector de fuente y de los ajustes de volumen de sonido y tono, por lo que puede escuchar otra fuente que no sea TAPE (cinta) mientras se realiza la copia. (Si se pulsa una tecla de fuente que no sea TAPE durante la copia a velocidad normal, se grabará dicha fuente).
- No es posible realizar una grabación S.E.A. durante la copia a velocidad normal o a alta velocidad.
- Para grabar utilice una cinta del mismo tipo que la cinta original.

Kopiëren met normale snelheid

1. Druk op de "TAPE" bronkeuzetoets.
2. Druk op PUSH OPEN (▲) bij decks A en B om beide cassettehouders te openen.
3. Zet een vooropgenomen cassette in deck A en een lege cassette in deck B.
4. Zet deck B in de opnamestand. (Druk op de (◀, ▶)-toets en houd tegelijk de REC-toets ingedrukt).
5. Zet deck A in de weergavestand. (Druk op de (◀, ▶)-toets).

Kopiëren met hoge snelheid

1. Druk op de "TAPE" bronkeuzetoets.
2. Druk op PUSH OPEN (▲) bij decks A en B om beide cassettehouders te openen.
3. Zet een vooropgenomen cassette in deck A en een lege cassette in deck B.
4. Druk op de HIGH SPEED DUBBING toets (kopiëren met hoge snelheid).

Om het kopiëren te beëindigen

Kopiëren met normale snelheid: Druk op de (■)-toetsen van decks A en B.

Kopiëren met hoge snelheid: Druk op de (■)-toets van deck B.

Opmerkingen:

- Kontroleer alvorens met kopiëren te beginnen de bandlooprichting van deck B met behulp van de TAPE RUNNING INDICATOR. Druk de (◀) toets in en houd tegelijkertijd de (▶) toets ingedrukt om de bandlooprichting van (■) naar (▶) te wijzigen.
- Met het Dolby-systeem aan worden cassettes in dezelfde Dolby-stand opgenomen als die waarin de vooropgenomen cassette werd opgenomen, ongeacht of de DOLBY B NR-toets op ON of OFF staat. (De DOLBY B NR-indicator is uit terwijl er gekopieerd wordt).
- Bij kopiëren met hoge snelheid staat het opnemen van de cassette los van de bronkeuze, klankvolume-en tooninstelling, zodat u naar een andere bron dan de cassettespeler kunt luisteren tijdens het kopiëren. (Als een andere bronkeuzetoets dan TAPE wordt ingedrukt tijdens kopiëren met normale snelheid, wordt die bron opgenomen).
- S.E.A.-opname is niet mogelijk bij kopiëren met normale of hoge snelheid.
- Gebruik voor het kopiëren van een cassette altijd hetzelfde type als het origineel.

Notes for dubbing:

- As the tape length for recording may not be enough due to differences in tapes speed between deck A and deck B and variations in tape length etc., use a tape with enough length for recording.
- Certain televisions may be affected by this unit during high-speed dubbing. If this happens, turn the power of the TV off or move this unit away from the TV.

When recording a tune (TAPE) while monitoring it, use normal dubbing. When listening to a source other than the tape being recorded, high-speed dubbing is convenient.

Notas para realizar copias:

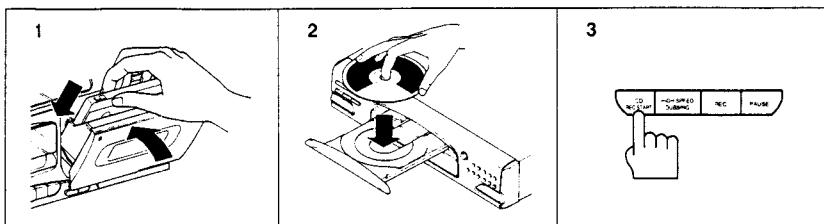
- Como la duración de la cinta en blanco puede no ser suficiente, debido a diferencias de velocidad entre la platina A y la B, variaciones de longitud de la cinta, etc., use una cinta en blanco con la suficiente duración.
- Algunos aparatos de televisión pueden resultar afectados por esta unidad durante la copia a alta velocidad. Si esto ocurriera, apague el televisor o aleje de él el equipo.

Si quiere escuchar la melodía que está grabando, use la copia a velocidad normal. Si prefiere escuchar otra fuente distinta de la cinta que está grabando, use la copia a alta velocidad.

Opmerkingen voor kopiëren:

- Gebruik steeds een cassette met voldoende opnameduur, want anders loopt u gevraagd een stukje opname te missen wegens verschilende bandsnelheden tussen deck A en deck B, schommelingen in bandlengte, enz.
- Sommige TV-toestellen kunnen beïnvloed worden door dit apparaat bij kopiëren met hoge snelheid. Als dit gebeurt, moet u de TV uitzetten of het apparaat verder verwijderen van de TV.

Als u een nummer opneemt (TAPE) en het tegelijk beluistert, moet u kopiëren met normale snelheid. Als u een andere bron dan het deck waarop u opneemt beluistert, kunt u het best kopiëren met hoge snelheid.

**CD direct recording (deck B only)**

- You can easily record a disc onto a tape synchronized with it.

 - Load a tape in deck B.
 - To record on both sides of the tape, press the REVERSE MODE button to turn its indicator on.
 - Mount a disc on the CD player.
 - Press the CD REC START button.

Note:

- The source is automatically fixed at CD during direct recording. To switch to another source, press the STOP (■) button on deck B or the CD player.
- Do not operate deck A during recording. If you operate deck A during recording, dubbing from deck A to deck B starts.

Mute recording function (deck B only)

- To create a 4-second mute interval during recording.

 - To create a mute interval during recording, touch the REC button.
 - About 4-second mute interval is automatically created and sets in mute recording mode.
 - To resume recording, press the (►) or (◀) button.

Note:

- When you want to create a mute interval of over 4-second, hold down the REC button desired time. Releasing this button sets in REC PAUSE mode.

Grabación directa de Compact Discs (Platina B únicamente)

- Ud. puede grabar fácilmente un disco en una cinta sincronizada con el mismo.

 - Inserte una cinta en la platina B.
 - Para grabar en ambas caras de la cinta, pulse la tecla REVERSE MODE hasta situar el indicador en posición ON.
 - Cargue un disco en el reproductor de CD.
 - Pulse la tecla CD REC START.

Notas:

- Automáticamente se fija la fuente en CD durante la grabación directa. Para cambiar a cualquier otra fuente, pulse la tecla STOP (■) en la platina B o en el reproductor de CD.
- No opere la platina A durante la grabación. Si opera la platina A durante la grabación, se iniciará la copia de la platina A en la platina B.

Función de silenciamiento de la grabación (magnetófono B solamente)

- Para crear un intervalo sin grabar de 4 segundos durante la grabación.

 - Para crear un intervalo sin grabar durante la grabación, toque el botón REC.
 - En forma automática se crea un intervalo sin grabar de 4 segundos, aproximadamente, y se ajusta en el modo de silenciamiento de la grabación.
 - Para reanudar la grabación, oprima el botón (►) o (◀).

Nota:

- Cuando se desea crear un intervalo sin grabar de más de 4 segundos, mantenga el botón REC oprimido durante el tiempo deseado. Cuando se libera este botón se ajusta en el modo REC PAUSE.

Directe CD-opname (enkel deck B)

- U kunt dan gemakkelijk een volledig gesynchroniseerde opname maken van een CD op een cassetteband.

 - Zet een cassette in deck B.
 - Om op beide kanten van de cassette op te nemen drukt u op de REVERSE MODE-toets, waardoor de bijhorende indicator aangaat.
 - Zet een CD in de CD-speler.
 - Druk op de CD REC START-toets.

Opmerkingen:

- De bron wordt automatisch op CD vastgezet tijdens directe opname. Om naar een andere bron over te schakelen drukt u op de STOP (■)-toets van deck B of op die van de CD-speler.
- Bedien deck A niet tijdens een opname. Als u deck A toch bedient tijdens een opname, begint het kopiëren van deck A naar deck B.

Opnamedempingsfunktion (Alleen deck B)

- Het tijdens opname inlassen van een opname-pauze van 4 sekonden.

 - Raak de REC toets aan om tijdens opname een opname-pauze in te lassen.
 - Hierdoor wordt de Opnamedempingsfunktion (MUTE) functie ingeschakeld en wordt er automatisch een opname-pauze van 4 sekonden ingelast.
 - Druk de (►) of (◀) toets in om het opnemen te hervatten

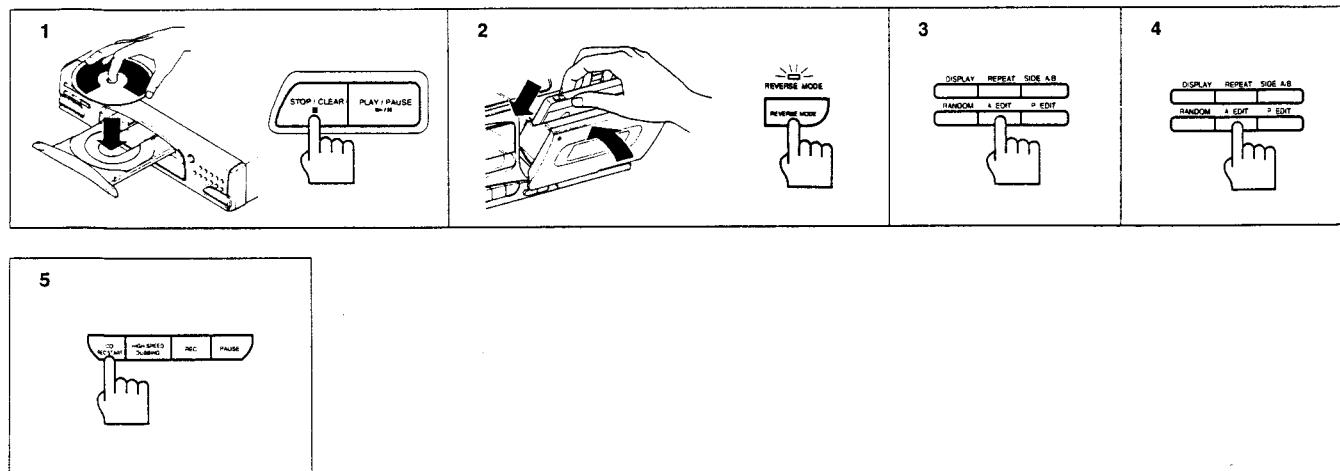
Opmerking:

- Houd de REC toets gedurende de gewenste tijd ingedrukt, wanneer u een opnamepauze van langer dan 4 sekonden wilt inlassen. Loslaten van deze toets stelt de REC PAUSE functie in werking.

**TO PERFORM EDIT RECORDING
FROM CD**

**PARA REALIZAR LA GRABACION
COMPAGINADA DEL CD**

**GEMONTEERDE OPNAME VAN
EEN CD**



The unit provides you with two edit recording systems: "Auto Edit Recording" automatically divides the source of CD to side A and B of a tape conforming to tape length for recording. "Program Edit Recording" allows you to program your favorite selections and orders for recording.

Auto Edit Recording

1. Load a disc and press the STOP/CLEAR (■) button.
2. Load a cassette in deck B with side A toward you.
 - Press the REVERSE MODE button to turn on the indicator.
3. Press the A.EDIT to turn on the indicator AUTO.
4. Press the A.EDIT button again to match the indicator with the length of the tape loaded.
 - Each time this button is pressed, the indicator changes as follows: C-46 → C-54 → C-60 → C-74 → C-90 → (return to C-46) (Select the tape length while the indicator is flickering.)
 - To match the indicator with the set tape length, operation with numeric keys on CD player is also available. (Operate while the indicator is flickering.)
 - Press SIDE A/B button to select tunes to be recorded on side A and B of the tape automatically. Display shows the numbers of tunes to be recorded on side A.
 - Press SIDE A/B button to display B so that the tunes to be recorded on side B are shown.
5. Press the CD REC START button of the cassette deck.

Note:

Do not operate deck A during recording.

If you operate deck A during recording, dubbing from deck A to deck B starts.

La unidad le brinda dos sistemas de grabación compaginada: La "Grabación Compaginada Automática" divide en forma automática la fuente del CD en los lados A y B de una cinta de acuerdo con la longitud de la cinta para grabación. La "Grabación Compaginada Programada" le permite programar sus selecciones y órdenes favoritos para grabación.

Grabación Compaginada Automática

1. Coloque un disco y oprima el botón STOP/CLEAR (■).
2. Cargue un cassette en la platina B con la cara A orientada hacia Vd.
 - Oprima el botón REVERSE MODE para activar el indicador.
3. Oprima el botón A. EDIT para activar el indicador AUTO.
4. Oprima el botón A. EDIT para hacer que el indicador coincida con la longitud de la cinta que se ha colocado.
 - Cada vez que se oprime este botón, el indicador cambia según se indica a continuación: C-46 → C-54 → C-60 → C-74 → C-90 → (vuelve a C-46) (Seleccione la longitud de la cinta mientras el indicador está parpadeando).
 - Para hacer que el indicador coincida con la longitud de cinta ajustada, también se encuentra disponible la operación con teclas numéricas en el reproductor de CD. (Operar mientras el indicador está parpadeando).
 - Oprima el botón SIDE A/B para seleccionar las melodías que se grabarán, automáticamente, en el lado A y en el lado B de la cinta.
 - Oprima el botón SIDE A/B para visualizar B en forma tal que se muestren las melodías que se grabarán en el lado B.
5. Oprima el botón CD REC START del magnetófono.

Nota:

No opere la platina A durante la grabación. Si opera la platina A durante la grabación, se iniciará la copia de la platina A en la platina B.

Met dit toestel kunt u op twee manieren gemonteerd opnemen: "Automatisch" of "Geprogrammeerd". Met de automatische montage-opnamefunctie worden voor kant A en B fragmenten ingesteld zodat deze binnen een bepaalde cassettespeelduur passen en niet haiverwege worden afgebroken. Met de geprogrammeerde montage-opnamefunctie kunt u bepaalde fragmenten programmeren en vervolgens opnemen.

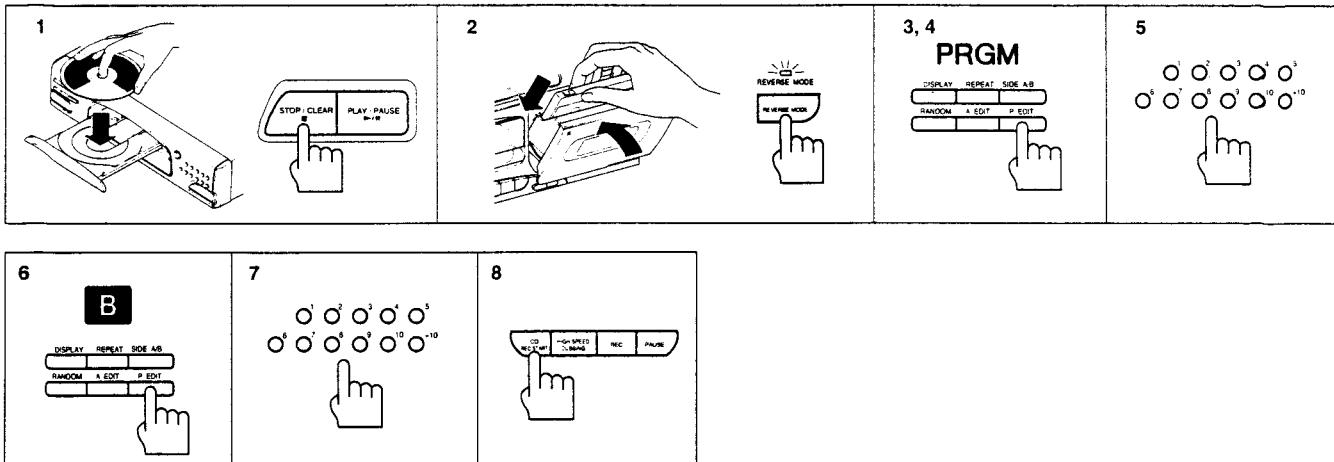
Automatische montage-opnamefunctie

1. Plaats een CD en druk op de STOP/CLEAR (■) toets.
2. Leg een cassette in deck B met kant A naar u gericht.
 - Druk op de REVERSE MODE toets zodat de indikator oplicht.
3. Druk op de A. EDIT toets zodat de AUTO indikator oplicht.
4. Druk op de A. EDIT toets zodat de aanduiding van de speeltijd van de te gebruiken cassette oplicht.
 - Door iedere druk op deze toets wordt als volgt een andere speeltijd ingesteld: C-46 → C-54 → C-60 → C-74 → C-90 → (en vervolgens weer C-46). Stel de speeltijd in terwijl de indikator knippert.
 - Het is tevens mogelijk om de speeltijd met de cijferstoetsen van de afstandsbediening. (Stel in terwijl de indikator knippert.)
 - Druk op de SIDE A/B toets om op te nemen fragment voor cassettekant A en B automatisch in te stellen.
 - Druk op de SIDE A/B toets om de op te nemen fragmentnummer voor kant B te tonen.
5. Druk op de CD REC START toets van het cassettedeck.

Opmerking:

Bedien deck A niet tijdens een opname.

Als u deck A toch bedient tijdens een opname, begint het kopiëren van deck A naar deck B.



Program Edit Recording

- Load a disc and press the STOP/CLEAR (■) button.
- Load a cassette in deck B with side A toward you.
 - Press the REVERSE MODE button to turn on the indicator.
- Press the P.EDIT to turn on the indicator PRGM.
- Press the P.EDIT button again to match the indicator with the length of the tape loaded.
 - Each time this button is pressed, the indicator changes as follows: C-46 → C-54 → C-60 → C-74 → C-90 → (return to C-46) (Select the tape length while the indicator is flickering.)
 - To match the indicator with the set tape length, operation with numeric keys on CD player is also available. (Operate while the indicator is flickering.)
 - With the tape length specified, displays shows allowable total recording time on one side.
- Select desired order of tunes by using the numeric keys on CD player.
 - Each time a tune is selected, recording time remained decreases.
 - If your programming exceeds the recording time remained, the exceeding time flickers.
- After completion the programming of side A, press SIDE A/B button of CD player to turn on the indicator B.
- Designate desired order of tunes to be recorded using the numeric keys on CD player. Do the same operations as done in side A.
- Press the CD REC START button of cassette deck.

Notes:

- To record on one side only, turn off the REVERSE MODE indicator.
- Up to 32 tunes, 16 for each side, can be selected.
- To correct program selections, press the STOP/CLEAR (■) button to cancel the program and press the EDITING button to program again.
- To operate the numeric keys on CD player, refer to page 10.
- Do not operate deck A during recording. If you operate deck A during recording, dubbing from deck A to deck B starts.

Grabación Compaginada Programada

- Coloque un disco y oprima el botón STOP/CLEAR (■).
- Cargue un cassette en la platina B con la cara A orientada hacia Vd.
 - Oprima el botón REVERSE MODE para activar el indicador.
- Oprima el botón P. EDIT para activar el indicador PRGM.
- Oprima el botón P. EDIT para hacer que el indicador coincida con la longitud de la cinta que se colocado.
 - Cada vez que se oprime este botón, el indicador cambia según se indica a continuación: C-46 → C-54 → C-60 → C-74 → C-90 → (vuelve a C-46) (Seleccione la longitud de la cinta mientras el indicador está parpadeando).
 - Para hacer que el indicador coincida con la longitud de cinta ajustada, también se encuentra disponible la operación con teclas numéricas en el reproductor de CD. (Operé mientras el indicador está parpadeando).
 - Con la longitud de cinta especificada, en la visualización se muestra el tiempo de grabación total disponible de un lado.
- Seleccione el orden deseado de las melodías haciendo uso de las teclas numéricas en el reproductor de CD.
 - Cada vez que se selecciona una melodía, el tiempo restante de grabación disminuye.
 - Si su programación excede el tiempo restante de grabación, el exceso de tiempo parpadea.
- Después de completar la grabación del lado A, oprima el botón SIDE A/B del reproductor de CD para activar el indicador B.
- Determine el orden deseado de las melodías que se van a grabar haciendo uso de las teclas numéricas en el reproductor de CD. Efectúe las mismas operaciones que para el lado A.
- Oprima el botón CD REC START del magnetófono.

Notas:

- Para grabar de un lado solamente, desactive el indicador REVERSE MODE.
- Es posible seleccionar hasta un máximo de 32 melodías, 16 de cada lado.
- Para corregir las selecciones del programa, oprima el botón STOP/CLEAR (■) para cancelar el programa y oprima el botón EDITING para programar nuevamente.
- Para operar las teclas numéricas en el reproductor de CD, consulte la página 10.
- No opere la platina A durante la grabación. Si opera la platina A durante la grabación, se iniciará la copia de la platina A en la platina B.

Geprogrammeerde montage-opnamefunctie

- Plaats een CD en druk op de STOP/CLEAR (■) toets.
- Leg een cassette in deck B met kant A naar u gericht.
 - Druk op de REVERSE MODE toets zodat de indicator oplicht.
- Druk op de P. EDIT toets zodat de PRGM indicator oplicht.
- Druk op de P. EDIT toets zodat de aanduiding van de speeltijd van de te gebruiken cassette oplicht.
 - Door iedere druk op deze toets wordt als volgt een andere speeltijd ingesteld: C-46 → C-54 → C-60 → C-74 → C-90 → (en vervolgens weer C-46). Stel de speeltijd in terwijl de indicatorknippert.
 - Het is tevens mogelijk om de speeltijd met de cijfertoetsen van de afstandsbediening in te stellen. (Stel in terwijl de indicatorknippert.)
 - De display toont totale opnametijd voor een kant indien de speelduur van de cassette is ingesteld.
- Programeer de fragmenten in de gewenste volgorde met de cijfertoetsen van de afstandsbediening.
 - De opnametijd vermindert nadat een fragment is geprogrammeerd.
 - De tijdaanduiding knippert indien de tijd van de geprogrammeerde fragmenten de beschikbare opnametijd overschrijdt.
- Druk op de SIDE A/B toets van de CD-speler nadat u de fragmenten voor kant A heeft geprogrammeerd. De indicatorkant B licht nu op.
- Programmeer de fragmenten voor kant B in de gewenste volgorde met de cijfertoetsen van de afstandsbediening. Volg de procedure voor het programeeren van kant A.
- Druk op de CD REC START toets van het cassettedeck.

Opmerkingen:

- Zorg dat de REVERSE MODE indicator is uitgezet indien u slechts op één kant wenst op te nemen.
- U kunt maximaal 16 fragmenten voor een kant programmeren, dus 32 fragmenten in totaal.
- Druk indien u het programma wilt te veranderen op de STOP/CLEAR (■) toets om het programma te annuleren en druk vervolgens op de EDITING toets om opnieuw te programmeren.
- Zie pag. 10 voor gebruik van de cijfertoetsen van de afstandsbediening.
- Bedien deck A niet tijdens een opname. Als u deck A toch bedient tijdens een opname, begint het kopiëren van deck A naar deck B.

When CD REC START is used for edit recording,

- The CD REC START button starts edit recording automatically in the following manners:

Example:

Side A, 1, 9, 5, ...; side B, 10, 2, 4, ...

Cuando se utiliza CD REC START para una grabación compaginada,

- La tecla CD REC START empieza a grabar con edición de la siguiente manera:

Ejemplo:

Cara A, 1, 9, 5, ...; cara B, 10, 2, 4, ...

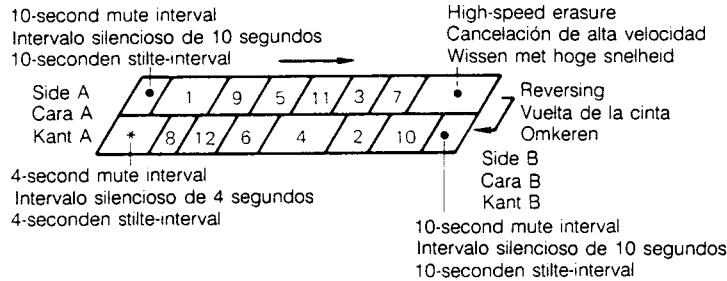
Wanneer de CD REC START opnamefunctie gebruikt wordt voor het maken van geluidsmontages,

- De CD REC START-toets begint automatisch met montage-opname op de volgende manieren:

Voorbeeld:

Kant A, 1, 9, 5, ...; kant B, 10, 2, 4, ...

Recording of edited songs
Grabación de las canciones editadas
Opnemen van gemonteerde nummers



- After programming sides A and B, press the CD REC START button to start edit recording automatically.
- Even when the end of the tape is not reached, the tape is fast-forwarded to the beginning of side B and a 10-second mute interval is created to prevent the beginning of the next song from being cut out.
- When the programmed recording sequence is complete, the tape stops after a 4-second interval.

- Después de programar las caras A y B, pulse la tecla CD REC START para iniciar la grabación automáticamente.
- Incluso cuando no se ha alcanzado el final de la cinta, ésta avanza rápidamente hasta el comienzo de la cara B y se crea un intervalo silencioso de 10 segundos para evitar que el comienzo de la siguiente canción quede cortado.
- Cuando la secuencia de grabación programada termina, la cinta se detiene tras un intervalo silencioso de 4 segundos.

- Druk na het programmeren van kanten A en B op de CD REC START-toets om automatisch de montage-opname te starten.
- Zeelfs als het einde van de band niet bereikt is, wordt de band opgespoeld tot het begin van kant B en een 10-seonden stilte-interval wordt gecreëerd om te voorkomen dat het begin van het volgende nummer wegvalt.
- Als de geprogrammeerde opname voltooid is, stopt de band na een 4-seonden stilte-interval.

www.manualscenter.com

ERASING

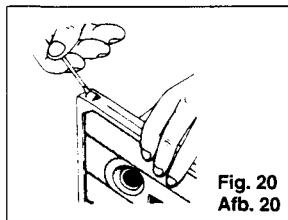
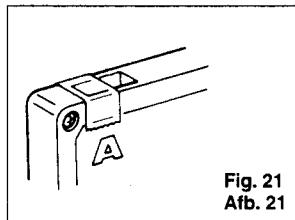
- Load the tape you want to erase to deck B.
- While holding down the REC button, press the PAUSE button to enter the REC PAUSE mode.
- Press the "TAPE" source selector button.
- Press (►) or (◀) button of deck B.
- Recording on a cassette automatically erases the previous sound.

BORRADO

- Coloque la cinta que desea borrar en el magnetófono B.
- Oprima el botón, mientras mantiene el botón REC oprimido, con el objeto de pasar al modo REC PAUSE.
- Pulse el botón selector de fuente de "cinta" ("TAPE").
- Oprima ya sea el botón (►) o (◀) del magnetófono B.
 - Al grabar en una cinta, automáticamente se borra la grabación anterior.

WISSEN

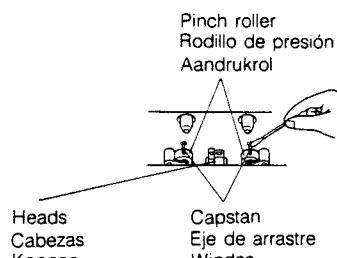
- Plaats de tape die u wenst te wissen in deck B.
- Houd de REC toets ingedrukt en druk tegelijkertijd de toets in om de REC PAUSE functie in te schakelen.
- Druk op de "TAPE" bronkeuzetoets.
- Druk de (►) of (◀) toets van deck B in.
 - Bij opnemen op een cassette wordt automatisch de vorige opname gewist.

Fig. 20
Afb. 20Fig. 21
Afb. 21**Note:**

- Cassette tapes have safety lugs. Valuable recordings can be protected from accidental erasure by cutting the lugs. To protect side A from erasure, for example, cut the lug on the left when viewed from side A; to protect side B from erasure, cut the lug on the left when viewed from side B (Fig. 20).
- To record on tapes with their lugs having been cut, cover the voids with an adhesive tape or the like and you can record on them over again (Fig. 21).

Nota:

- Las cintas de cassette disponen de pestanas de seguridad. Las grabaciones valiosas pueden protegerse contra un borrado accidental cortando estas pestanas. Para proteger la cara A contra un borrado accidental, corte la pestana de la izquierda según mira a la cara A de la cinta; para proteger la cara B, corte la pestana de la izquierda según mira a la cara B de la cinta. (Fig. 20).
- Para grabar en cintas a las que se han cortado las pestanas, cubra los huecos con cinta adhesiva. (Fig. 21).

Fig. 22
Afb. 22**Opmerking:**

- Cassettes hebben veiligheidslipjes. Kostbare opnamen kunt u beschermen tegen ongewenst wissen door deze lipjes af te breken. Om bijvoorbeeld kant A tegen wissen te beschermen, breekt u het lipje aan de linkerkant af (met kant A naar boven); om kant B te beveiligen, breekt u het lipje aan de linkerkant af (met kant B naar boven) (Afb. 20).
- Om op te nemen op cassettes waarvan de lipjes verwijderd zijn, moet u de ontstane openingen afdekken met kleefband of gelijkwaardig materiaal om opnieuw te kunnen opnemen (Afb. 21).

MAINTENANCE

Head cleaning (Fig. 22)

Head cleaning is required to assure optimum performance. The heads which come into contact with the tape attract minute particles of dust and become dirty.

If the heads are dirty

- Sound quality becomes poor.
- The sound level drops.
- Recording becomes impossible.
- Sound is interrupted.
- Previous recordings are not erased.

Because of this, keep the heads clean.

Wipe the heads with a cleaning stick or cloth moistened with alcohol (not too much).

Notes:

- Do not bring any iron object, magnet screw-driver, etc. close to the heads.
- Do not use force so the right head positions are kept.
- Make sure to turn the power off when cleaning.

Cleaning the pinch roller and capstan

Wipe the pinch roller and capstan referring to "Head cleaning".

Demagnetizing

If the heads become magnetized, noise will occur and high frequency response will deteriorate. In this case, set the POWER button to OFF and demagnetize the heads with a head demagnetizer. For more details, refer to the instruction book of the demagnetizer.

Cassette types

The following types of cassette can be used with this unit.

Cassette that can be played:

- NORMAL (TYPE I)
- CHROME (TYPE II)
- METAL (TYPE IV)

Cassette that can be recorded:

- NORMAL (TYPE I)
- CHROME (TYPE II)

MANTENIMIENTO

Limpieza de las cabezas (Fig. 22)

La limpieza periódica de las cabezas asegura un rendimiento óptimo. Las cabezas tienden a ensuciararse por acumulación de partículas diminutas de polvo, lo cual da lugar a

- Calidad sonora deficiente.
- Disminución del nivel sonoro.
- Imposibilidad de grabación.
- Interrupción del sonido.
- Imposibilidad de borrado de grabaciones previas.

Por todo lo anterior, sírvase mantener limpias las cabezas.

Limpie las cabezas con un hisopo o paño húmedo en alcohol (no demasiado).

Notas:

- No acerque ningún objeto de hierro, desarmador magnético, etc. a las cabezas.
- No fuerce al limpiar porque puede alterar las posiciones de las cabezas.
- Asegúrese de realizar la limpieza con el aparato apagado.

Limpieza del rodillo de presión y eje de arrastre

Limpie estas dos piezas de igual modo que las cabezas.

Desmagnetización

Si las cabezas se magnetizan, se producirá ruido y se deteriorará la respuesta de alta frecuencia. En este caso, apague el aparato y realice la desmagnetización con un desmagnetizador de cabezas. Para más detalles, refiérase al manual de instrucciones del desmagnetizador.

ONDERHOUD

Reiniging van de koppen (Afb. 22)

Reiniging van de koppen is een vereiste om van goede prestaties verzekerd te zijn. De koppen, die met de tape in aanraking komen, trekken minuscule deeltjes stof aan en worden vuil.

Wanneer de koppen vuil zijn

- De geluidskwaliteit verslechtert.
- Het geluidsniveau verminderd.
- Het maken van goede opnamen is niet mogelijk.
- Het geluid klinkt haperig.
- Oude opnamen worden niet uitgeurst.

Houd de koppen schoon om bovenstaand verschijnsel te voorkomen.

Reinig de koppen met een wattenstaafje of zachte doek, bevochtigd met (niet te veel) alkohol.

Opmerkingen:

- Houd geen metalen voorwerpen, zoals een magnetische schroevendraaier, enz., in de buurt van de koppen.
- Oefen geen druk op de koppen uit, zodat ze niet beschadigd worden.
- Schakel de netspanning uit alvorens tot reiniging over te gaan.

Reiniging van de aandrukrol en de winds

Zie "Reiniging van de koppen" voor reiniging van de winds en de aandrukrol.

Damagnetisatie

Wanneer de koppen magnetisch zijn, treedt er ruis op en verslechteren de karakteristieken van de hoogfrequenties. Zet de netschakelaar (POWER) op OFF en demagnetiseer de koppen m.b.v. een koppendemagnetiseur, wanneer deze situatie zich voordoet. Zie de gebruiksaanwijzing van de koppende-magnetiseur voor details.

Types van cassette

De volgende types van cassette kunnen met dit toestel worden gebruikt.

Cassette die u kan weergeven:

- NORMAL (TYPE I)
- CHROME (TYPE II)
- METAL (TYPE IV)

Cassette die u kan opnemen:

- NORMAL (TYPE I)
- CHROME (TYPE II)

BEFORE CALLING FOR SERVICE ANTES DE LLAMAR AL SERVICIO TECNICO PROBLEEMOPLOSSING

Here are some helpful tips to save your valuable time for calling for service.

Symptom	Probable cause	Action
No sound is delivered	The cabling may be incorrect.	Please see Connection diagram, Page 3.
Cannot record	The protective tab of tape may be broken.	Cover the void with an adhesive tape or the like.
Noisy broadcast reception	The antenna may not be connected properly.	Set up the antenna in correct position.
	The loop antenna may be too close to the set.	Change the location and direction of the loop antenna.
	The antenna may be left slack on the ground or elsewhere.	Use the antenna stretched tight for best reception.
Intermittent disc sound reproduction	The disc may be scratched or smeared.	Clean or replace the disc.
Inoperable remote	There may be an obstacle between the remote control unit and the REMOTE SENSOR SECTION on the main unit.	Remove the obstacle.
Disk tray won't come out	The system connector may be out of position.	Plug the system connector into firm position.
	The POWER switch may be STANDBY.	Turn the POWER switch ON.
Cannot play a disc	The disc may be reversed.	Mount the disc on the disk tray, labeled side up.
Disabled operations	External noise, such as that caused by lightning, could cause the microcomputer to malfunction.	Unplug the power cord, then plug it again.

A continuación le indicamos algunas sugerencias que pueden ayudarle y que quizás le eviten tener que llamar al servicio técnico.

Síntoma	Causa probable	Modo de actuar
No se recibe ningún sonido	Las conexiones pueden ser incorrectas.	Consulte el diagrama de conexiones, página 3.
No se puede grabar	Es posible que la lengüeta protectora de la cinta se encuentre rota.	Cubra el hueco con cinta adhesiva.
Recepción ruidosa de emisiones de radio	La antena puede estar conectada de forma incorrecta.	Coloque la antena en la posición correcta.
	La antena circular puede estar demasiado cerca del equipo.	Cambie la localización y la dirección de la antena circular.
	La antena puede estar floja.	Use la antena extendida y correctamente apretada para una mejor recepción.
Sonido intermitente al reproducir un Compact Disc	El disco puede estar rayado o sucio.	Limpie el disco o reemplácelo.
No funciona el mando a distancia	Puede haber algún obstáculo entre el mando a distancia y el sensor de control remoto de la unidad principal.	Quite el obstáculo.
No puede extraerse la bandeja portadiscos	Es posible que el conector del sistema no se encuentre en posición.	Enchufe el conector del sistema en una posición firme.
	El interruptor de alimentación puede estar en posición STAND BY.	Ponga el interruptor de alimentación en la posición ON.
No se puede reproducir un Compact disc	El disco puede estar al revés.	Coloque el disco en la bandeja, con la etiqueta hacia arriba.
Operaciones desactivadas	Perturbaciones eléctricas, como las debidas a rayos, por ejemplo, pueden producir fallos en el microordenador.	Desenchufe el cable de alimentación y vuelva a enchufarlo de nuevo.

Hier volgen enkele nuttige tips om u kostbare herstellingstijden te besparen.

Symptoom	Waarschijnlijke oorzaak	Aktie
Geen klankweergave	De kabels zijn misschien verkeerd ingestoken.	Zie aansluitingsschema, pag. 3.
Opnemen lukt niet	Het wispreventielipje van de cassette is verwijderd.	Bedeck de opening met kleefband of gelijkwaardig materiaal.
Ruis op de uitzendingsontvangst	Is de antenne goed aangesloten?	Zet de antenne in de juiste stand.
	De raamantenne staat misschien te dicht bij het apparaat.	Verander platsensing en richting van de raamantenne.
	De antenne hangt misschien los op de grond of op ander materiaal.	Gebruik de antenne met goed opgespannen draad voor een optimale ontvangst.
Klankweergave van CD haperd	Zitten er krassen of vegen op het CD-oppervlak?	Maak de CD schoon of vervang hem.
De afstandsbediening werkt niet	Wellicht bevindt er zich een hinderend voorwerp tussen de afstandsbediening en de REMOTE SENSOR op het apparaat.	Verwijder dat voorwerp.
De CD-lader komt niet naar buiten	Het systeembedieningssnoer is niet goed aangesloten. Misschien staat de POWER-schakelaar op STANDBY (uit).	Steek het systeembedieningssnoer stevig in de aansluiting. Zet de POWER-schakelaar op ON (aan).
Een CD kan niet worden weergegeven	Misschien is de CD omgekeerd ingelegd.	Leg de CD op de lader met het label naar boven.
De bedieningstoetsen werken niet	Extern lawaai, zoals dat veroorzaakt door de bliksem, kan slechte werking van de microcomputer veroorzaken.	Trek de stekker uit het stopcontact en steek hem dan weer in.

SPECIFICATIONS

AMPLIFIER SECTION
 Output power: (IEC 268-3/DIN): 40 watts per channel min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.9% total harmonic distortion.
 MUSIC DIN : 70 W + 70 W
 Input sensitivity/impedance PHONO : 3 mV/50 k ohms VIDEO/AUX : 300 mV/50 k ohms
 S.E.A. graphic equalizer Pre-programmed : 51 (5 modes x 10 patterns, FLAT mode)
 SEA Settings :
FM TUNER SECTION
 Tuning range : 87.5 MHz — 108.0 MHz
 Usable sensitivity : 0.95 µV/75 ohms (IHF)
 26 dB Quieting sensitivity : 1.5 µV/75 ohms (DIN)
 Signal to noise ratio : Mono 80 dB (IHF A-net)
 Stereo 73 dB (IHF A-net)
 Mono 72 dB (DIN)
 Stereo 64 dB (DIN)

AM TUNER SECTION MW
 Tuning range Channel space 9 kHz : 522 kHz — 1629 kHz (for UK, Australia, Continental Europe)
 531 kHz — 1602 kHz (for other area)
 Channel space 10 kHz : 530 kHz — 1600 kHz (for other area)
 Sensitivity : 300 µV/m
LW (UK and Continental Europe only)
 Tuning range : 144 kHz — 353 kHz
 144 kHz — 290 kHz (for Italy only)
 Sensitivity : 600 µV/m

CASSETTE SECTION
 Head Deck A : Metaperm (play)
 Deck B : Metaperm (play/rec)
 Ferrite (erase)
 Frequency response : Normal tape
 30 Hz — 15 kHz (-20 dB rec/play)
 Chrome tape 30 Hz — 16 kHz (-20 dB rec/play)
 Metal tape 30 Hz — 17 kHz (-20 dB play only)
 Wow and flutter : 0.08% (WRMS), 0.2% (DIN)
 Signal to noise ratio : 57 dB (chrome tape)
GENERAL
 Dimensions (W x H x D) : 360 x 311 x 306.5 mm
 Weight : 8.0 kg (17.7 lbs)

ESPECIFICACIONES

SECCION DEL AMPLIFICADOR
 Potencia de salida (IEC 268-3/DIN): 40 vatios efficaces minimos por canal, en 8 ohmios a 1 kHz con no mas de 0.9% de distorsion armónica total.
 MUSIC DIN : 70 W + 70 W
 Sensibilidad e impedancia de entrada: PHONO : 3 mV/50 k-ohmios VIDEO/AUX : 300 mV/50 k-ohmios
 Equalizador grafico SEA Ajustes SEA preprogramados : 51 (5 modos x 10 patrones, modo plano (FLAT))
SECCION DEL SINTONIZADOR DE FM
 Margen de sintonia : 87.5 MHz — 108.0 MHz
 Sensibilidad util. : 0.95 µV/75 ohmios (IHF)
 Umbral de silenciamiento de 26 dB : 1.5 µV/75 ohmios (DIN)
 Relación señal-ruido : Mono 80 dB (IHF red-A)
 Estereo 73 dB (IHF red-A)
 Mono 72 dB (DIN)
 Stereo 64 dB (DIN)
SECCION DEL SINTONIZADOR DE AM MW
 Margen de sintonia Espacio entre canales 9 kHz : 522 kHz — 1629 kHz (Para el Reino Unido, Australia y Europa continental)
 531 kHz — 1602 kHz (Para otros países)
 Espacio entre canales 10 kHz : 530 kHz — 1600 kHz (Para otros países)
 Sensibilidad : 300 µV/m
LW (solamente R.U. y Europa Continental)
 Margen de sintonia : 144 kHz — 353 kHz
 144 kHz — 290 kHz (para Italia solamente)
 Sensibilidad : 600 µV/m
SECCION DE LOS MAGNETOFONOS
 Cabeza Magnétophone A : Metaperm (reproducción)
 Magnétophone B : Metaperm (reproducción/grabación)
 Respuesta de frecuencia : Cinta normal:
 30 Hz — 15 kHz (-20 dB grabación/reproducción)
 Cinta cromo:
 30 Hz — 16 kHz (-20 dB grabación/reproducción)
 30Hz — 17 kHz (solamente reproducción de -20 dB)
 Fluctuación y tremoedación : 0.08% (eficacia ponderada), 0.2% (DIN)
 Relación señal-ruido : 57 dB (cinta cromo)
GENERALIDADES
 Dimensiones (An x Al x Pr) : 360 x 311 x 306.5 mm
 Peso : 8.0 kg

TECHNISCHE GEGEVENEN

VERSTERKER GEDEELTE
 Uitgangsvermogen (IEC 268-3/DIN): 40 Watt per kanaal, min. RMS, beide kanalen gevoed bij 8 Ohm bij 1 kHz met niet meer dan 0.9% totale harmonische vervorming.
 MUZIEK DIN : 70 W + 70 W
 Ingangsgevoeligheid/impedantie: PHONO : 3 mV/50 k Ohm VIDEO/AUX : 300 mV/50 k Ohm
 S.E.A. Grafische equalizer Ajustes SEA : 51 (5 modos x 10 patrones, modo plano (FLAT))
FMTUNER GEDEELTE
 Afstembereik : 87.5 MHz — 108.0 MHz
 Bruikbare : 0.95 µV/75 Ohm (IHF)
 Gevoeligheid : 1.5 µV/75 ohmios (DIN)
 26 dB onderdruk : 1.5 µV/75 Ohm (DIN)
 Kingsgevoeligheid : Mono 80 dB (IHF A-net)
 Signaal-tot-ruis verhouding : Stereo 73 dB (IHF A-net)
 Mono 72 dB (DIN)
 Stereo 64 dB (DIN)
AM TUNER GEDEELTE MG
 Afstembereik : 522 kHz — 1629 kHz (voor Australië en Europa inklusief Groot-Brittannië)
 Kanaalsafstand 9 kHz : 531 kHz — 1602 kHz (voor overige landen)
 530 kHz — 1600 kHz (voor overige landen)
 Gevoeligheid : 300 µV/m
LG (alleen Engeland en Europese vasteland)
 Afstembereik : 144 kHz — 353 kHz
 144 kHz — 290 kHz (alleen in Italië)
 Gevoeligheid : 600 µV/m
CASSETTEDECK GEDEELTE
 Koppen Deck A : Metaperm (weergave)
 Deck B : Metaperm (weergave/ opname)
 Ferriet (ws):
 Normale tape:
 30 Hz — 15 kHz (-20 dB opname/weergave)
 Chrometape:
 30 Hz — 16 kHz (-20 dB opname/weergave)
 Metaaltape:
 30Hz — 17 kHz (-20dB alleen weergave)
 Wow & flutter : 0.08 % (WRMS), 0.2% (DIN)
 Signaal-tot-ruis verhouding : 57 dB (chromo)
ALGEMEEN
 Afmetingen (B x H x D) : 360 x 311 x 306.5 mm
 Gewicht : 8.0 kg

CD PLAYER SECTION

System : Compact disc digital audio
 Signal detection : Non-contact optical system pick-up
 Number of channels : 2 channels
 Signal to noise ratio : 100 dB
 Wow and flutter : Less than measurable limit
 Number of program steps : 32 steps
GENERAL
 Dimensions (W x H x D) : 360 x 79 x 281.5 mm (14-3/16" x 3-1/8" x 11-1/8")
 Weight : 2.5 kg (5.6 lbs)
 Design and specifications subject to change without notice.

SECCION DEL REPRODUCTOR DE COMPACT DISCS

Sistema : Audio digital "compact disc"
 Sistema de detección de señal : Captor de sistema óptico sin contacto
 Número de canales : 2 canales
 Relación señal-ruido : 100 dB
 Fluctuación y trémolo : Inferiores al límite mensurable
 Número de pasos de programación : 32 pasos
GENERALIDADES
 Dimensiones (An x Al x Pr) : 360 x 79 x 281.5 mm
 Peso : 2.5 kg
 El diseño y las especificaciones están sujetos a cambio sin aviso.

COMPACT DISCSPLEIER-GEDEELTE

Weergavesteem : Audiодигитале compact disc
 Signaal-aanleessysteem : Kontaktloze optische leeskop
 Aantal kanalen : 2, stereo
 Signaal-verhouwing : 100 dB
 Sneldheidsfrequenties : Beneden meetlimiet
 Aantal programmastappen : 32 stappen
ALGEMEEN
 Afmetingen (B x H x D) : 360 x 79 x 281.5 mm
 Gewicht : 2.5 kg
 Veranderingen in technische gegevenen en ontwerp onder voorbehoud.

POWER SPECIFICATIONS

Area	Line Voltage & Frequency	Power Consumption
UK	AC 240 V ~, 50 Hz	270 watts
Australia		
Continental Europe	AC 230 V ~, 50 Hz	130 watts
Other areas	AC 110 / 127 / 220 / 240 V ~ selectable, 50/60 Hz	273 watts
Taiwan	AC 110 / 127 / 220 / 240 V ~ selectable, 50/60 Hz	

ESPECIFICACIONES DE ALIMENTACION

Países	Voltaje y frecuencia	Consumo
Reino Unido	CA 240 V ~, 50 Hz	270 vatios
Australia		
Europa Continental	CA 230 V ~, 50 Hz	130 vatios
Otras países	CA 110 / 127 / 220 / 240 V ~ seleccionable, 50/60 Hz	273 vatios
Taiwan	CA 110 / 127 / 220 / 240 V ~ seleccionable, 50/60 Hz	

SPANNINGSVEREISTEN

Gebieden	Netspanning en frequentie	Stroomverbruik
Engeland	Net 240 V ~, 50 Hz	270 Watt
Australië		
Europese vasteland	Net 230 V ~, 50 Hz	130 Watt
Andere gebieden	Net 110 / 127 / 220 / 240 V ~ instelbaar, 50/60 Hz	273 Watt
Taiwan	Net 110 / 127 / 220 / 240 V ~ instelbaar, 50/60 Hz	

www.manualscenter.com

Description of Major ICs

■LC6514B-4245(IC401) : Tuner Controller

1. Terminal Layout (Top View)

KEY IN 2	1	42	KEY IN 1
KEY IN 3	2	41	KEY IN 0
INT	3	40	VDD
A BUS IN	4	39	HOLD
NC	5	38	Vp
DI	6	37	MUTE
CK	7	36	D8
DO	8	35	D7
CE	9	34	D6
A BUS OUT	10	33	D5
TUNED	11	32	D4
STEREO	12	31	D3
NC	13	30	D2
NC	14	29	D1
S1	15	28	D0
S2	16	27	S8
S3	17	26	S7
S4	18	25	S6
RES	19	24	S5
TEST	20	23	OSC2
Vss	21	22	OSC1

2. Key Matrix

	KEYIN 0 (pin 41)	KEYIN 1 (pin 42)	KEYIN 2 (pin 1)	KEYIN 3 (pin2)
D0 (pin28)	—	MEMORY	AUTO MEMORY	—
D1 (pin29)	FM	AM	—	FM MODE
D2 (pin30)	UP	DOWN	—	—
D3 (pin31)	1	2	3	4
D4 (pin32)	5	6	7	8
D5 (pin33)	9	10	+ 10	PRESET SCAN
D7 (pin35)	BAND 1	—	10K/9K	LW
D8 (pin36)	LW1/LW2	POWER SW	—	—

3. Terminal connection

Pin No.	Symbol	I/O	Function and Operation	Pin No.	Symbol	I/O	Function and Operation
1	KEY IN 2	I	Key matrix input	22	OSC1	I	Oscillator input
2	KEY IN 3	I	Key matrix input	23	OSC2	O	Oscillator output
3	INT	I	Pull up (+ 5V)	24	S5	O	FL segment output
4	A BUS IN	I	Compu-link signal input	25	S6	O	FL segment output
5	NC	—	Non connection	26	S7	O	FL segment output
6	DI	I	Data input (from IC102 ; LC7218)	27	S8	O	FL segment output
7	CK	O	System clock output (to IC102 ; LC7218)	28	D0	O	FL grid output (Key matrix output)
8	DO	O	Data output (to IC102 ; LC7218)	29	D1	O	FL grid output (Key matrix output)
9	CE	O	Chip enable	30	D2	O	FL grid output (Key matrix output)
10	A BUS OUT	O	Compu-link signal output	31	D3	O	FL grid output (Key matrix output)
11	TUNED	I	“TUNED” signal input	32	D4	O	FL grid output (Key matrix output)
12	STEREO	I	“STEREO” signal input	33	D5	O	FL grid output (Key matrix output)
13	NC	—	Non connection	34	D6	O	FL grid output (Key matrix output) : not use
14	NC	—	Non connection	35	D7	O	FL grid output (Key matrix output)
15	S1	O	FL segment output	36	D8	O	FL grid output (Key matrix output)
16	S2	O	FL segment output	37	MUTE	O	Tuner mute signal
17	S3	O	FL segment output	38	Vp	--	FL display power supply
18	S4	O	FL segment output	39	HOLD	I	Input signal for back up
19	RES	I	Reset signal input	40	VDD	—	Power supply (+ 5V)
20	TEST	I	Pull down	41	KEY IN 0	I	Key matrix input
21	Vss	--	Ground	42	KEY IN 1	I	Key matrix input

■ HD614081SC93 (IC500): System Control & FL Driver

1. Terminal Layout (Top View)

D INH	1	REC MUTE	64
NC	2	NC	63
REC IND	3	B FWD IND	62
NR IND	4	B REV IND	61
A REV IND	5	A FWD IND	60
B CAP MOTOR	6	REV MODE	59
B CAP SPEED	7	BIAS	58
B PLUNGER 1	8	NR REC	57
B PLUNGER 2	9	H.S.DUB	56
A CAP MOTOR	10	DCS IN	55
A CAP SPEED	11	DCS OUT	54
A PLUNGER 1	12	GND	53
A PLUNGER 2	13	OSC 1	52
A PLAY SW	14	OSC 2	51
A FF/REV SW	15	TEST	50
B PLAY SW	16	RESET	49
B FF/REV SW	17	KEY IN 3	48
A PULSE IN	18	KEY IN 2	47
B PULSE IN	19	KEY IN T	46
NC	20	KEY IN 0	45
NC	21	NC	44
NC	22	NC	43
NC	23	NC	42
B REV REC	24	NC	41
B FWD REC	25	KEY OUT 3	40
B PACK SW	26	KEY OUT 2	39
A PACK SW	27	KEY OUT 1	38
P/B MUTE	28	KEY OUT 0	37
A PLAY H	29	NC	36
NC	30	NC	35
NC	31	NC	34
+ 5V	32	NC	33

2. Key Matrix

	KI0	KI1	KI2	KI3
KO0	A ◀	A ◀	A ▶	A ▶
KO1	B ◀	B ◀	B ▶	B ▶
KO2	A █	B █	B ○	B █
KO3	A ▶ B	NR	REV MODE	CD D.REC

3. Terminal Description

Pin NO.	Symbol	I/O	Description	Pin NO.	Symbol	I/O	Description
1	P.CON	O	Power control signal	33	NC	--	Non connection
2	NC	-	Non connection	34	NC	--	Non connection
3	REC IND	O	REC indicator control	35	NC	--	Non connection
4	NR IND	O	NR indicator control	36	NC	--	Non connection
5	A REV IND	O	A REV indicator control	37	KEY OUT 0	O	Key matrix output
6	B CAP MOTOR	O	B capstan motor drive signal output	38	KEY OUT 1	O	Key matrix output
7	B CAP SPEED	O	B capstan motor speed control signal	39	KEY OUT 2	O	Key matrix output
8	B PLUNGER 1	O	B plunger 1 drive signal	40	KEY OUT 3	O	Key matrix output
9	B PLUNGER 2	O	B plunger 2 drive signal	41	NC	--	Non connection
10	A CAP MOTOR	O	A capstan motor drive signal output	42	NC	--	Non connection
11	A CAP SPEED	O	A capstan motor speed control signal	43	NC	--	Non connection
12	A PLUNGER 1	O	A plunger 1 drive signal	44	NC	--	Non connection
13	A PLUNGER 2	O	A plunger 2 drive signal	45	KEY IN 0	I	Key matrix input
14	A PLAY SW	I	A PLAY signal input Active : low	46	KEY IN 1	I	Key matrix input
15	A FF/REV SW	I	A FF/REV signal input Active : low	47	KEY IN 2	I	Key matrix input
16	B PLAY SW	I	B PLAY signal input Active : low	48	KEY IN 3	I	Key matrix input
17	B FF/REV SW	I	B FF/REV signal input Active : low	49	RESET	I	Reset signal
18	A PULSE IN	I	A deck reel pulse signal input	50	TEST	-	Connected to + 5V
19	B PULSE IN	I	B deck reel pulse signal input	51	OSC 2	I	Oscillator input
20	NC	-	Non connection	52	OSC 1	O	Oscillator output
21	NC	-	Non connection	53	GND	-	Ground
22	NC	-	Non connection	54	DCS OUT	O	Compu-link signal output
23	NC	-	Non connection	55	DCS IN	I	Compu-link signal input
24	B REV REC	I	B REV REC ENABLE signal ABLE : low	56	H.S.DUB	O	High speed dubbing control . Active : low
25	B FWD REC	I	B FWD REC ENABLE signal ABLE : low	57	NR.REC	O	Noise reduction recording control
26	B PACK SW	I	B detection signal of a tape present (Present : low)	58	BIAS	O	Bias oscillator control
27	A PACK SW	I	A detection signal of a tape present (Present : low)	59	REV MODE	O	Reverse mode indicator Active : high
28	P/B MUTE	O	Playback mute signal output Active : high	60	A FWD IND	O	A FWD indicator control Active : high
29	A PLAY H	O	A/B changeover signal B PLAY : low	61	B REV IND	O	B REV indicator control Active : high
30	NC	-	Non connection	62	B FWD IND	O	B FWD indicator control Active : high
31	NC	--	Non connection	63	NC	-	Non connection
32	VCC	--	Power supply(+ 5V)	64	REC MUTE	O	REC MUTE signal Active : high

■ LC7218 (IC102) : PLL Synthesizer

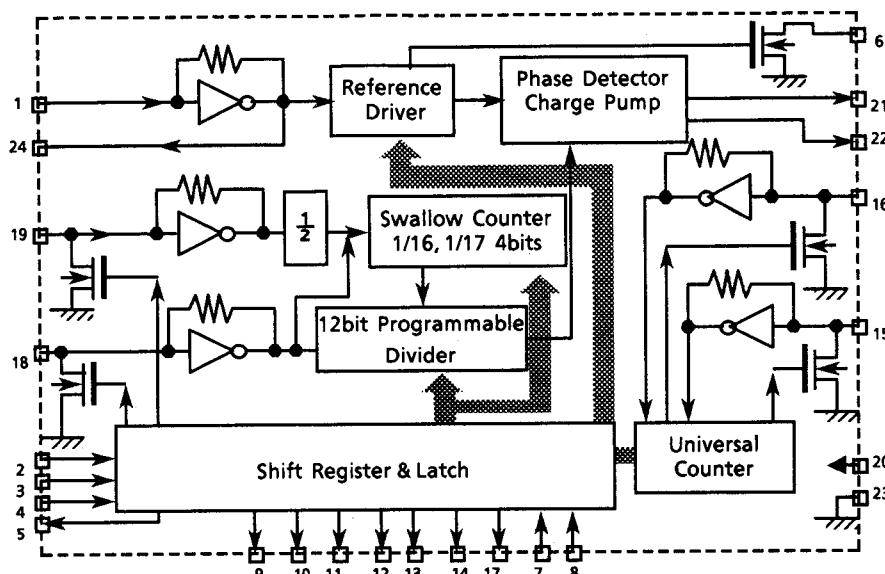
1. The main function descriptions

- (1) It makes the local oscillation frequency by the control data from IC401.
- (2) Decode the control signal and transmit the signal for receiving conditions.
- (3) For the best tuning, count the internal-frequency and transmit the data to IC401.

2. Terminal Layout (Top View)

X IN	1	X OUT	24
CE	2	VSS	23
DI	3	PD2	22
CK	4	PD1	21
DO	5	VDD	20
SYC	6	FM OSC IN	19
TUNED	7	AM OSC IN	18
STOP IN	8	IF Req	17
POWER	9	FM IF	16
QSC	10	AM IF	15
MONO	11	LW	14
FM	12	MW	13

3. Block Diagram



4. Pin Functions

Pin No.	Symbol	I/O	Functions and Operations
1 24	X IN X OUT	I/O	Crystal oscillator (7.2MHz).
2	CE	I	Fix the chip enable to "H" when inputting (DI) and outputting (DO) the serial data.
3	DI	I	Receive the control data from the controller (IC401).
4	CK	I	This clock is used to synchronize data when transmitting the data of DI and DO.
5	DO	O	Transmit the data from LC7218 to the controller which is synchronized with CK.
6	SYC	-	Not use
7	TUNED	I	Receive the tuned signal from IC104 (LA1266A).
8	STOP IN	I	Connected to ground
9	POWER	O	Not use
10	QSC	O	Not use
11	MONO	O	FM MONO : H FM STEREO : L
12	FM	O	Active Low
13	MW	O	Active Low
14	LW	O	Active Low
15	AM IF	I	Universal counter input for AM-IF from IC104 (LA1266A).
16	FM IF	I	Universal counter input for FM-IF from IC104(LA1266A).
17	IF Req	O	Output the "IF-signal request" to IC104 when the pin-7 (tuned in) go to "H".
18	AM OSC IN	I	Input the local oscillator signal of AM.
19	FM OSC IN	I	Input the local oscillator signal of FM.
20	VDD	-	Power supply (+)
21	PD1	O	PLL charge pump output : When the local oscillator signal frequency is higher than the reference frequency high level signals will output. When it is lower than the reference frequency, low level signals will output. When it is same as reference frequency signals, it will be floating.
22	PD2	O	Not used.
23	VSS	-	Power supply (Ground)

■ LA1266A (IC104) : FM AM IF AMP & detector

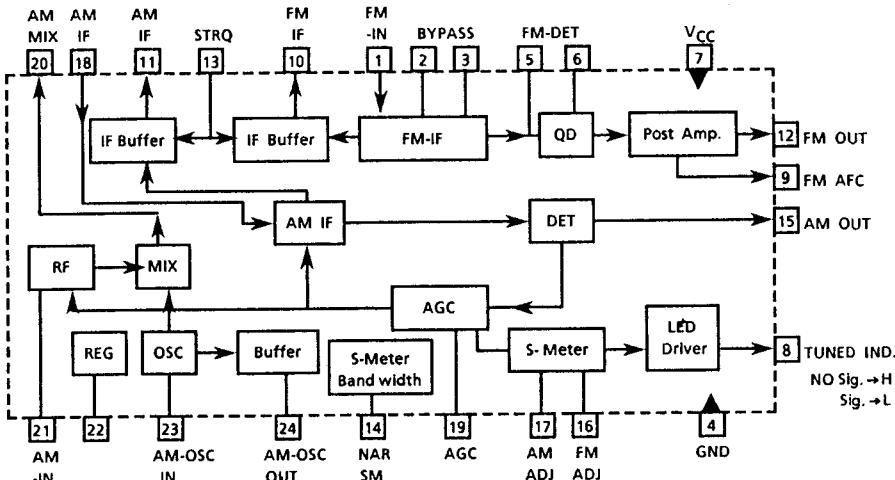
1. The main function descriptions

- (1) Amplify and detect of FM IF frequencies.
- (2) It has local oscillator and mixer for AM, and amplify the AM-IF signal.

2. Terminal Layout (Top View)

FMIF	1	24	AM-OSC OUT
BYPASS	2	23	AM-OSC
BYPASS	3	22	V.REF
GND	4	21	AM-IN
FM DET	5	20	AM MIX
FM DET	6	19	AM AGC
V _{cc}	7	18	AM IF
SIG	8	17	AM ADJ.
FM AFC	9	16	FM ADJ
FM IF	10	15	AM OUT
AM IF	11	14	NAR SM
FM OUT	12	13	STRQ

3. Block Diagram



4. Pin Functions

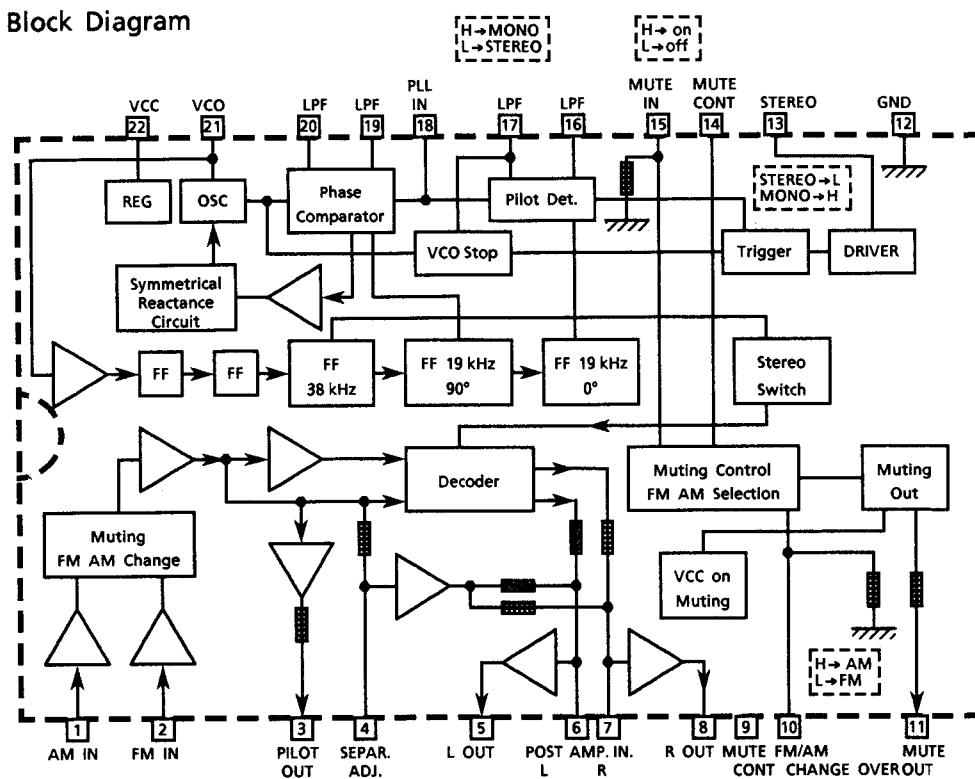
Pin No.	Symbol	I/O	Functions and Operations
1	FM IF	I	Input terminal for FM signal.
2,3	BYPASS	--	Bypass of FM IF Amp.
4	GND	--	Device ground terminal.
5,6	FM DET	--	FM detect transformer.
7	V _{cc}	--	Power supply terminal.
8	Tuned	O	Whe the set is tuning ,this terminal become "L".
9	FM AFC	O	Output terminal of voltage for FM - AFC.
10	FM IF	O	When the signal of IF REQ of IC102(LC7218) applied to pin17, the signal of FM IF does output.
11	AM IF	O	When the signal of IF REQ of IC102(LC7218) applied to pin17, the signal of AM IF does output.
12	FM OUT	O	FM detection output.
13	STRQ	I	The IF-signals come out from pin10 (FM-IF) or pin11 (AM-IF) while this terminal going to "High".
14	NAR SM	--	Control the Band-width of signal meter.
15	AM OUT	O	AM detection output.
16	FM ADJ	--	FM stop level (or mute level) adjustment.
17	AM ADJ	--	AM stop level (or mute level) adjustment.
18	AM-IF	I	AM IF Signal input:
19	AM-AGC	I	AGC voltage Input terminal for AM.
20	AM-MIX	O	Output terminal for AM mixer.
21	AM-IN	I	Input terminal for AM RF Signal.
22	V.REF	--	Band-width control of FM signal meter.
23	AM-OSC	--	AM Local oscillation circuit.
24	AM-OSC OUT	O	AM Local Oscillation Signal output.

■ LA3401 (IC105) : FM MPX Demodulator

1. Terminal Layout (Top View)

AM IN	1	V _{CC}	22
FM IN	2	VCO	21
PILOT OUT	3	LPF	20
SEPA. ADJ.	4	LPF	19
L OUT	5	PILOT IN	18
L	6	LPF	17
R	7	LPF	16
R OUT	8	MUTE IN	15
MUTE CONT	9	MUTE CONT	14
FM/AM	10	STEREO	13
MUTE OUT	11	GND	12

2. Block Diagram



3. Pin Functions

Pin No.	Symbol	I/O	Functions and Operations
1	AM IN	I	Input terminal for AM detection signal.
2	FM IN	I	Input terminal for FM detection signal.
3	PILOT OUT	O	Output of MPX pilot signal (Connect to Pin18).
4	SEPA. ADJ.	--	Separation adjustment.
5	L. OUT	O	Left channel signal output.
6	L	I	Input of the Left Post AMP.
7	R	I	Input of the Right Post AMP.
8	R OUT	O	Right channel signal output
9	MUTE CONT	--	The mute time is controlled by the connected capacitor when turning the power switch on.
10	FM/AM	I	Change over the FM / AM input. "H" : AM, "L" : FM
11	MUTE OUT	--	Not used
12	GND	--	Ground terminal.
13	STEREO	O	Stereo indicator output. Stereo : "L", Mono : "H"
14	MUTE CONT	--	The mute time is controlled by the connected capacitor when changing over the FM / AM .
15	MUTE IN	I	Mute signal input. "H" : Mute on, "L" : Mute off.
16	LPF	--	Low pass filter of pilot detector.
17	LPF	--	While this terminal goes to "H", the VCO stop.
18	PILOT IN	I	PLL input.
19	LPF	--	Low-pass filter of PLL.
20	LPF	--	Low-pass filter of PLL.
21	VCO	I	Voltage controlled oscillator terminal.
22	V _{cc}	--	Power supply.

■ MN171202JHD (IC501) : Display Controller

1. Terminal Layout (Top View)

VDD	1	64	OSC1
S1	2	63	OSC2
S2	3	62	VSS
S3	4	61	X2
S4	5	60	X1
S5	6	59	K13
S6	7	58	K12
S7	8	57	K11
S8	9	56	K10
S9	10	55	ACO
S10	11	54	NC
S11	12	53	S.B.IND
S12	13	52	TAPE IND
S13	14	51	D.RST
S23	15	50	S.MUTE
SURR IND	16	49	P.CONT
S25	17	48	DCS OUT
VPP	18	47	DCS IN
VOL UP	19	46	INH
VOL DOWN	20	45	RM.IN
1G	21	44	NC
2G	22	43	RST
3G	23	42	SPI SCK
4G	24	41	SPI CS
5G	25	40	SP DI
6G/KO0	26	39	STAN.IND
7G/KO1	27	38	SDA
8G/KO2	28	37	S.STB
9G/KO3	29	36	SCK
10G/KO4	30	35	M.STB
PHONO IND	31	34	CD IND
AUX IND	32	33	TU.IND

2. Key Matrix

	KI0	KI1	KI2	KI3
KO0	MSEC	FLAT	-	DISPLAY
KO1	PATTERN ►	PATTERN ◀	POWER	SURROUND
KO2	MODE ▲	MODE ▼	AUX	SUPER BASS
KO3	TAPE ◀	TUNER ►	CD	PHONO

3. Terminal Description

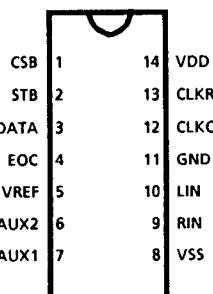
Pin NO.	Symbol	I/O	Description	Pin NO.	Symbol	I/O	Description
1	VDD	--	Power supply (+ 5V)	33	TU.IND	O	TUNER indicator control.
2	S1	O	FL segment control output.	34	CD IND	O	CD indicator control.
3	S2	O	FL segment control output.	35	M.STB	O	Strob signal for analog switch.(IC602)
4	S3	O	FL segment control output.	36	SCK	O	Clock signal for analog switch.(IC602)
5	S4	O	FL segment control output.	37	S.STB	O	Strob signal for analog switch. (IC581)
6	S5	O	FL segment control output.	38	SDA	O	Data signal for analog switch.(IC581)
7	S6	O	FL segment control output.	39	STAN.IND	O	STAND BY indicator control.
8	S7	O	FL segment control output.	40	SP DI	O	Data signal for IC406.
9	S8	O	FL segment control output.	41	SPI CS	O	Chip select for IC406.
10	S9	O	FL segment control output.	42	SPI SCK	O	Clock signal for IC406.
11	S10	O	FL segment control output.	43	RST	I	Reset signal input.
12	S11	O	FL segment control output.	44	NC	--	Non connection.
13	S12	O	FL segment control output.	45	RM.IN	I	Remote control signal input.
14	S13	O	FL segment control output.	46	INH	I	Inhibit signal input.
15	S14	O	FL segment control output.	47	DCS IN	I	Compu-link signal input.
16	SURR IND	O	SURROUND indicator control.	48	DCS OUT	O	Compu-link signal output.
17	S25	O	FL segment control output.	49	P.CONT	O	Power control signal.
18	VPP	--	Power supply (- 28.8V)	50	S.MUTE	O	Mute signal output.
19	VOL UP	O	Volume up control.	51	D.RST	O	Reset signal for deck.
20	VOL DOWN	O	Volume down control.	52	TAPE IND	O	TAPE indicator control.
21	1G	O	FL glid control output.	53	S.B.IND	O	SUPER BASS indicator control.
22	2G	O	FL glid control output.	54	NC	--	Non connection.
23	3G	O	FL glid control output.	55	ACO	O	Power on signal.
24	4G	O	FL glid control output.	56	KIN0	I	Key matrix input signal.
25	5G	O	FL glid control output.	57	KIN1	I	Key matrix input signal.
26	6G/KO0	O	FL glid control output / Key matrix output	58	KIN2	I	Key matrix input signal.
27	7G/KO1	O	FL glid control output / Key matrix output	59	KIN3	I	Key matrix input signal.
28	8G/KO2	O	FL glid control output / Key matrix output	60	X1	I	Connect to ceramic resonator.
29	9G/KO3	O	FL glid control output / Key matrix output	61	X2	--	Non connection.
30	10G/KO4	O	FL glid control output / Key matrix output	62	VSS	--	Ground
31	PHONO IND	O	PHONO indicator control.	63	OSC2	O	Connect to ceramic resonator.
32	AUX IND	O	AUX indicator control.	64	OSC1	I	Connect to ceramic resonator.

■ XR1097ECP (IC406) : 7-Channel Graphic Equalizer Filter With A/D Converter

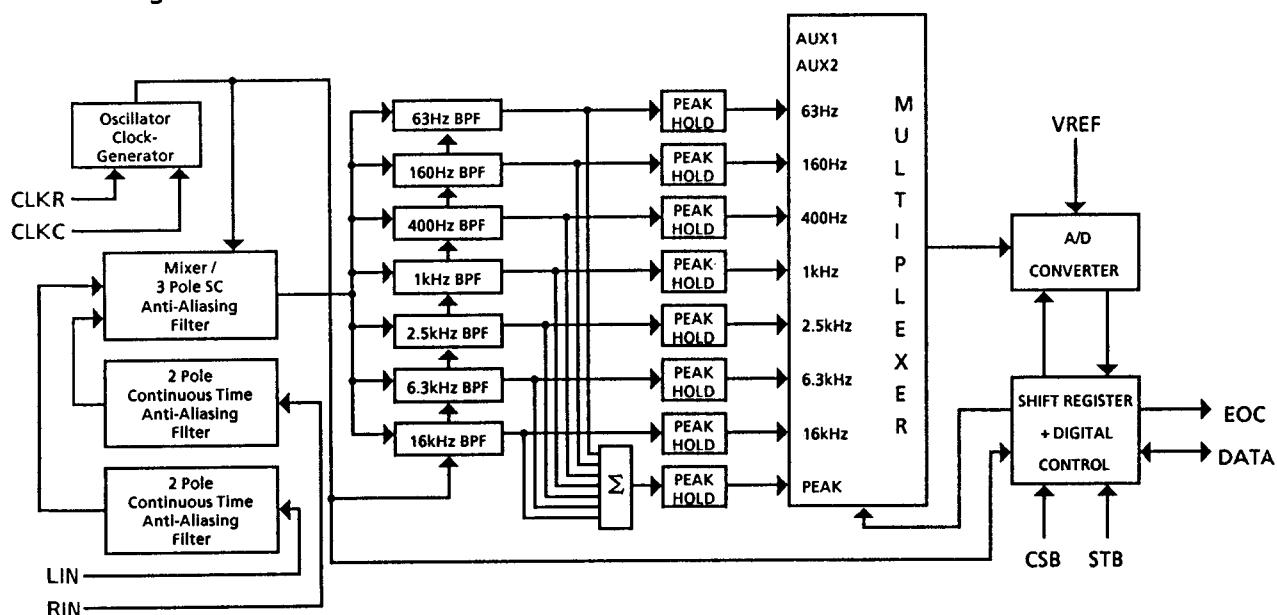
1. The main function descriptions

- (1) Internal R/C Oscillator
- (2) Provides seven filters in one 14-pin package
- (3) Dual inputs for summing Left and Right Channels
- (4) Provides 30dB of Gain
- (5) Two auxiliary inputs
- (6) Microprocessor Bus interface
- (7) On Chip A/D Converter

2. Terminal Layout (Top View)



3. Block Diagram



4. Pin Functions

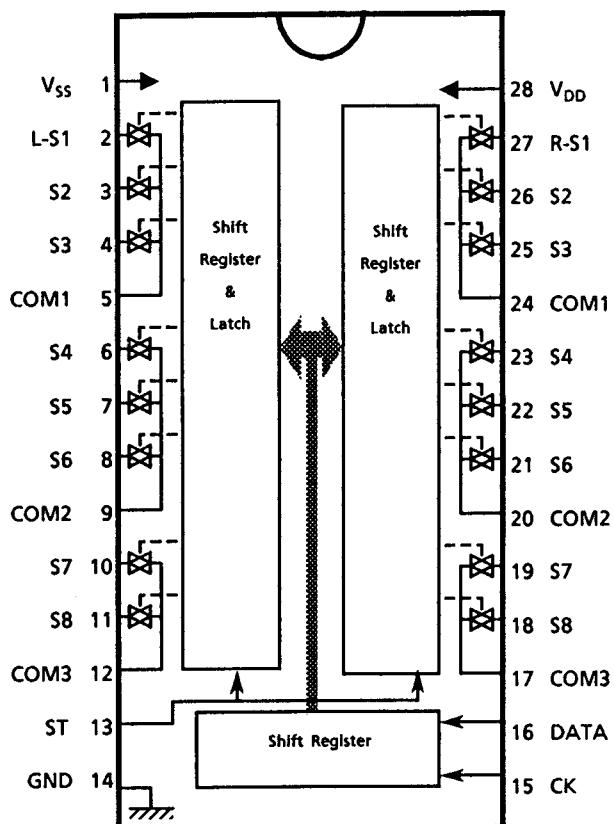
Pin No.	Symbol	I/O	Functions and Operations
1	CSB	I	Chip select pin
2	STB	I	Clock pin to shift in/out data through the serial port.
3	DATA	I	Serial port for digital signals to and from microprocessor.
4	EOC	O	End of conversion pin.
5	VREF	I	A/D Converter reference voltage input.
6	AUX2	I	Auxiliary input 2.
7	AUX1	I	Auxiliary input 1.
8	VSS	-	Negative supply voltage. (- 5.7V)
9	RIN	I	Right channel input.
10	LIN	I	Left channel input.
11	GND	--	Ground
12	CLKC	I	Clock capacitor from this pin to GND.
13	CLKR	I	Clock resistor from this pin to CLKC.
14	VDD	-	Positive supply voltage. (+ 5.6V)

■TC9163N (IC581,602) : Analog Switch

1. Functions

These analog switches are controlled by 14 bit serial date from computer for selecting the source.

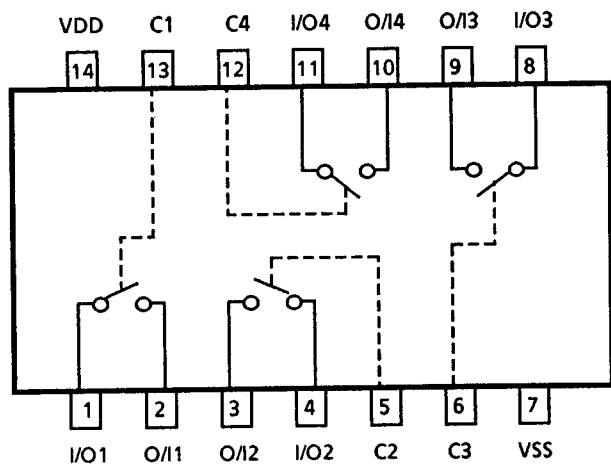
2. Terminal Layout & Block diagram



3. First 10bits are used to source select. Last 4 bits are chip select. The switches (S1~S8) are connected to common terminals (COM1~COM3) according to the DATA from computer.

	Switch Select bit								CH1 (L-S1~S8)(R-S1~S8)		Chip Select bit			
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14
TC9163N	The switch is ON when the data is "1".								1	0	0	0		

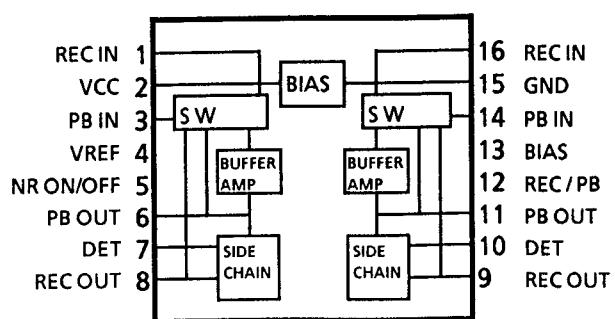
■ BU4066 (IC201) :Quad Analog Switch



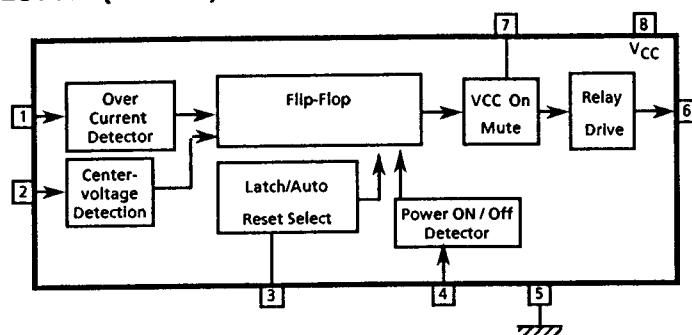
C	SW
H	ON
L	OFF

www.manualscenter.com

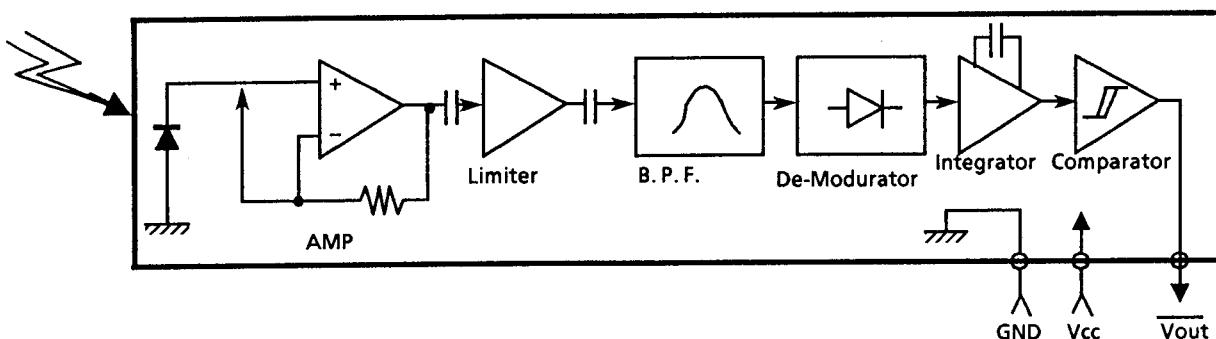
■ HA12136A (IC381) :Noise Reduction Amplifier



■ μ PC1237HA (IC002) : Protector

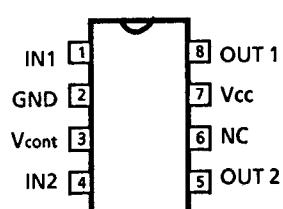


■ SPS-420-1 (IC502) : Receiver for Remote Controller



■ LB1639-CV (IC503) : Motor Driver

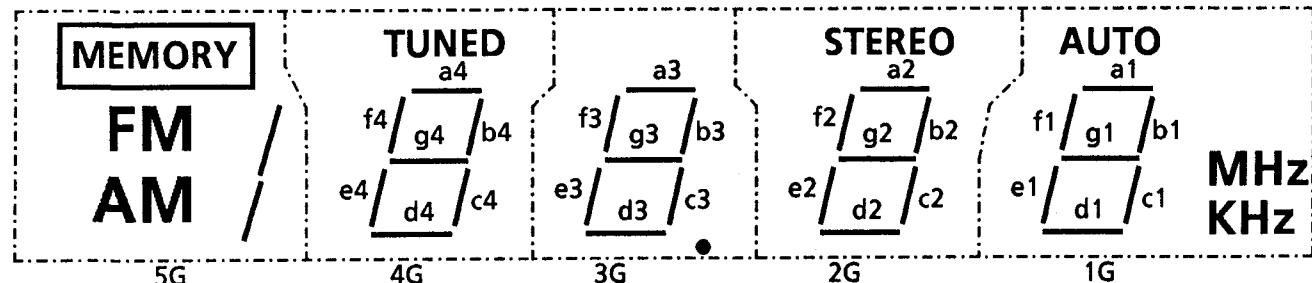
www.manualscenter.com



IN 1	IN 2	OUT 1	OUT 2	MOTOR
H	L	H	L	CLOCKWISE
L	H	L	H	COUNTER-CLOCKWISE
H	H	OFF	OFF	WAITING
L	L	OFF	OFF	WAITING

Internal Connections of the FL Display Tube

■ ELU0001 - 118 : FL401



Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Connection	F	F	NP	NC	5G	S4	5G	S3	4G	S2	S1	3G	S5	NC	2G	NC	S6	1G	S7	1G	S8	NP	F	F

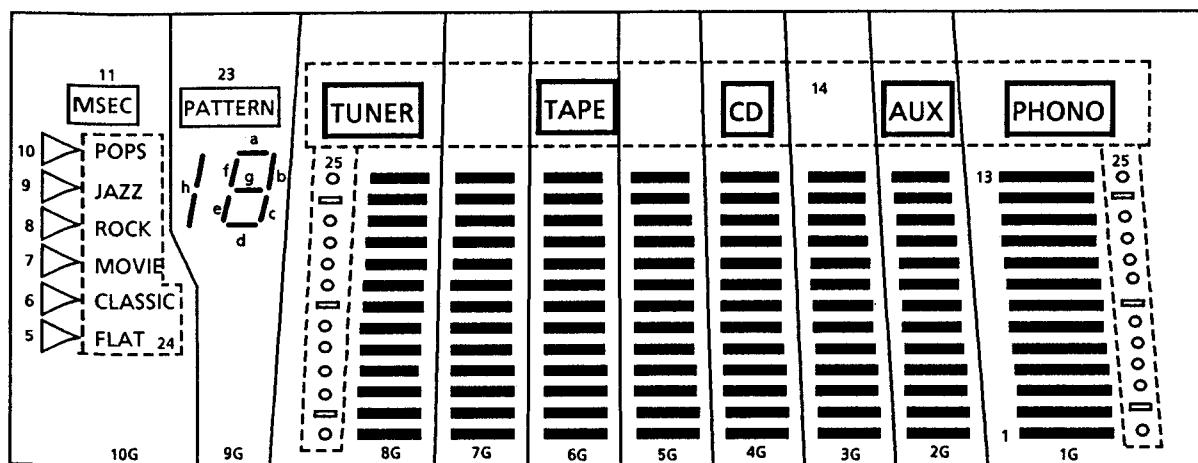
Note F : Filament, G : Grid, a~h : Element, NP : No Pin, NC : None Connection

Anode Connection Table

	S1	S2	S3	S4	S5	S6	S7	S8
5G	—	—	—	MEMORY	—	FM	AM	/
4G	TUNED	a4	b4	c4	d4	e4	f4	g4
3G	●	a3	b3	c3	d3	e3	f3	g3
2G	STEREO	a2	b2	c2	d2	e2	f2	g2
1G	AUTO	—	MHz	kHz	g1	f1,c1	b1,e1	a1,d1

www.manualscenter.com

■ ELU0001 - 146 : FL402



Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Connection	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	NP	P23	P22	P21	P20	P19	P18

26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
P17	P16	P15	NP	P24	P25	NP	NP	NP	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F2	F2		

F : Filament G : Grid P : Anode NP : No Pin

Anode Connection Table

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G														
1	1	1	1	1	1	1	1	1	1	—														
2	2	2	2	2	2	2	2	2	2	—														
3	3	3	3	3	3	3	3	3	3	—														
4	4	4	4	4	4	4	4	4	4	—														
5	5	5	5	5	5	5	5	5	5	5	—												5	
6	6	6	6	6	6	6	6	6	6	6	—												6	
7	7	7	7	7	7	7	7	7	7	7	—												7	
8	8	8	8	8	8	8	8	8	8	8	—												8	
9	9	9	9	9	9	9	9	9	9	9	—												9	
10	10	10	10	10	10	10	10	10	10	10	—												10	
11	11	11	11	11	11	11	11	11	11	11	—												MSEC	
12	12	12	12	12	12	12	12	12	12	12	—													
13	13	13	13	13	13	13	13	13	13	13	—													
14	PHONO	AUX	—	CD	—	TAPE	—	TUNER	—	—														
15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	h	—	—	—	—	—	—	
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	e	—	—	—	—	—	—	
17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	d	—	—	—	—	—	—	
18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	c	—	—	—	—	—	—	
19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	g	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	f	—	—	—	—	—	—	
21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	a	—	—	—	—	—	—	
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	b	—	—	—	—	—	—	
23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	PATTERN	—	—	—	—	—	—	
24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	
25	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25	—	—	—	—	—	—	—	

Disassembly Procedures

1. Removing the metal Cover

- (1) Remove the 2 screws fastening both sides of the metal cover and the 4 screws fastening the rear side.

(2) Remove the metal cover.

2. Removing the Front Panel assembly

- (1) Remove the metal cover.
- (2) Remove the 3 screws (◎(black color) fastening the bottom of the Front Panel.
- (3) Remove the connectors(P201,P202,J021,J041) and the flatwires.(J101,J261,J251,J901,JB301 J105,J015) * J105 is only Universal type.
- (4) Cut the Tie Bands (◎, (H), (I)).
- (5) Remove the 2 screws (◎) fastening each side of the Front Panel .
- (6) Remove the Front Panel assembly.

3. Removing the MainP.C. Board

(ENJ-070-1)

- (1) Remove 8 screws (◎, (F)) for Universal type and the 7 screws (◎, (E)) for others. Remove the connectors (P201,P202,J021,J041) and flat wires (J101,J261,J251,J901,JB301,J105). * J105 is only Universal type.
- (2) Remove the 5 screws((A) , (B)).
- (3) Remove the Main P.C.Board.

4. Removing the Cassette Mechanism assembly

- (1) Remove the Front Panel assembly.
- (2) Remove the connectors of the 11 pins for A cassette and the 12 pins for B cassette .
- (3) Remove the 8 screws(blue colored ones) (I).
- (4) Open the Cassette Door and take the Cassette Mechanism assemblies out.

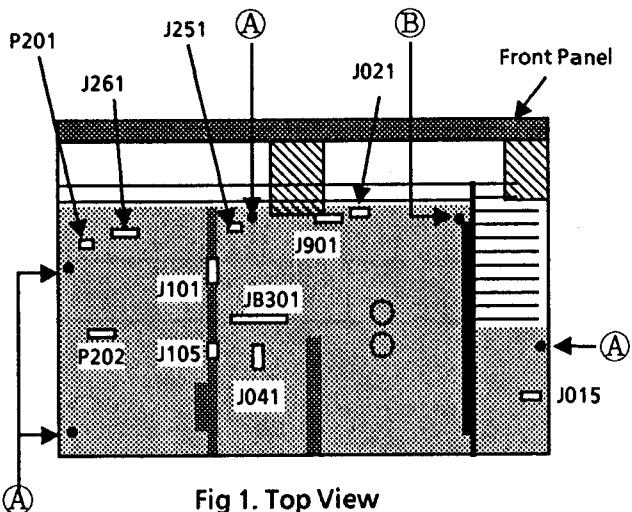


Fig 1. Top View

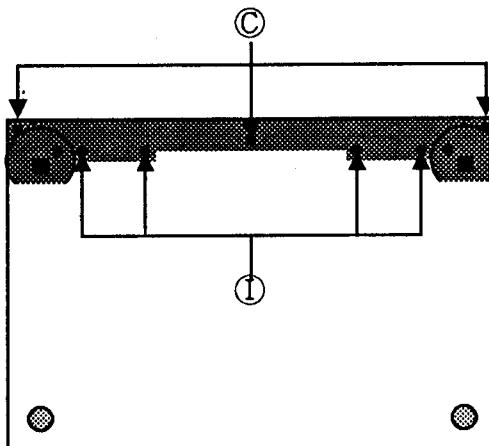


Fig 2. Bottom View

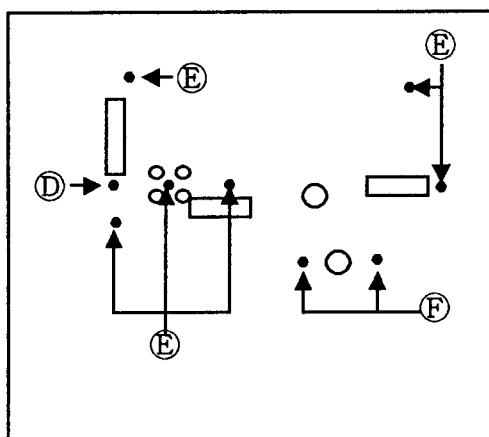


Fig 3. Rear View

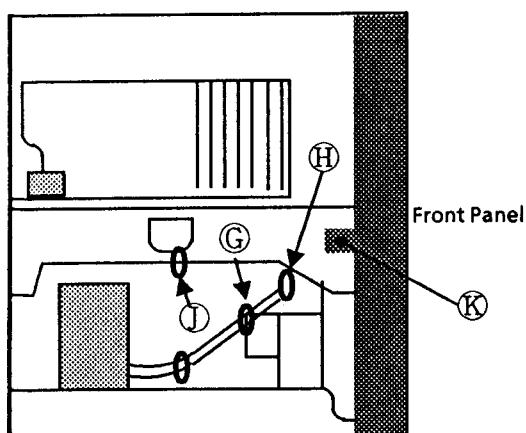
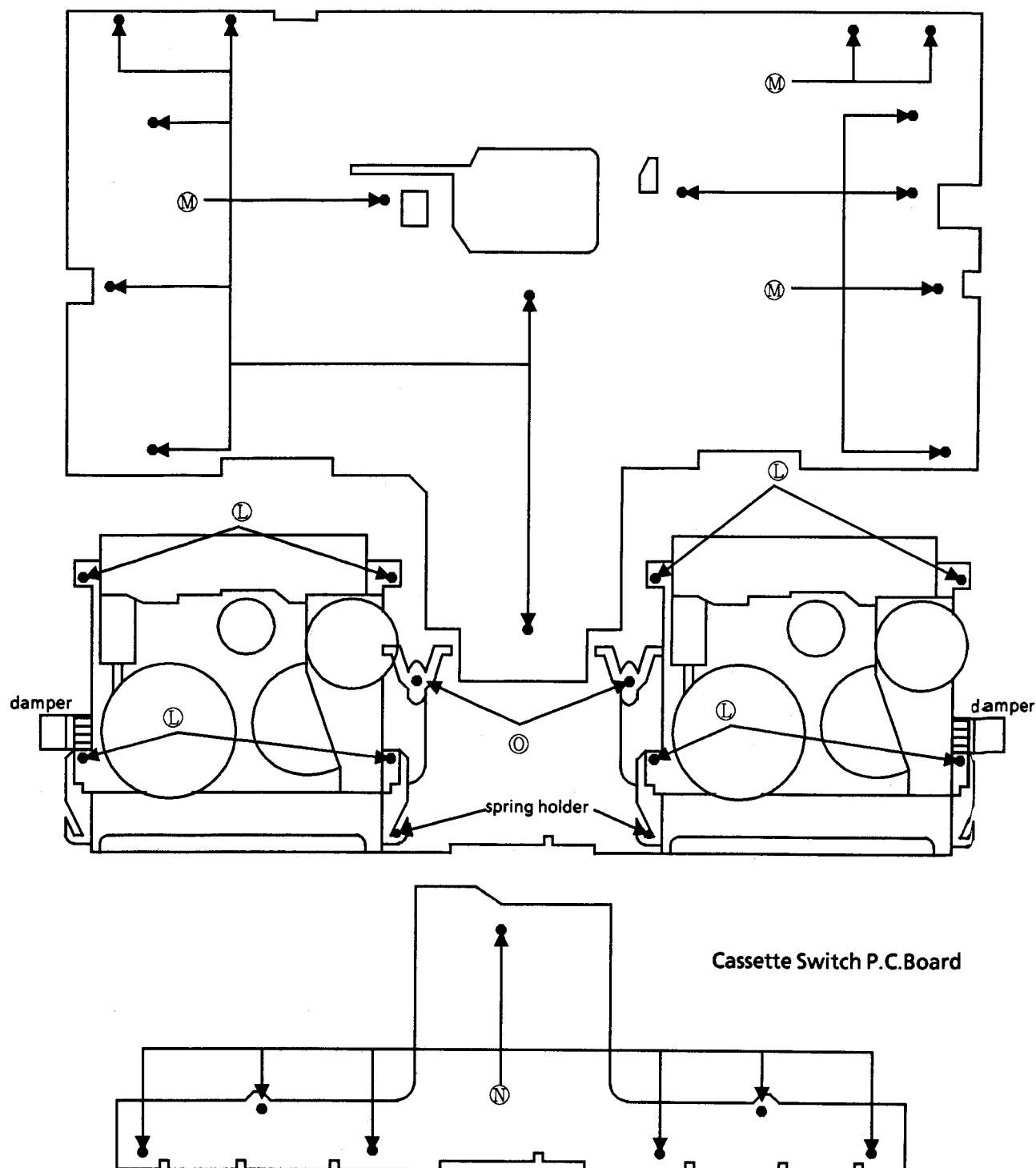


Fig 4. side View

5. Removing the Front P.C. Board

- (1) Remove the BALANCE knob and BASS knob.
- (2) Remove the Front Panel assembly.
- (3) Remove the cassette mechanism assemblies.
- (4) Remove the 4 screws ① fastening the Cassette Doors' holder brackets.
- (5) Take out the springs from the spring holders.
- (6) Take out the brackets from the cassette holder.
- (7) Remove the dampers.
- (8) Remove the 15 screws ② and the 7 screws ③.
- (9) Remove the 2 screws ④.
- (10) Remove the connectors J451,452 on the Volume P.C. Board.
- (11) Remove the P.C. Boards.



Adjustment Procedures (Cassette Deck)

1. Measuring instruments

Audio frequency signal generator (0dBs output at the 600 ohm output terminal from 50Hz to 20KHz)

Electronic voltmeter

Frequency counter

Wow & Flutter meter

Distortion Meter with band pass filter

Attenuator (600 ohm impedance)

A resistor with 600Ω

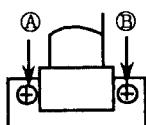
$0\text{dBs} = 0.775\text{V}$

Standard Tape

Tape No.	Frequency	Level (Wow & Flutter)	Purpose
VTT-703L	10kHz	- 10dBs	Head azimuth , Frequency Response
VTT-712	3000Hz	0dBs 0.025%WRMS	Tape Speed , Wow & Flutter
VTT-724	1kHz	- 4dBs	Standard Level
TMT-6447	-	-	Blank Skip
TMT-6247 , TMT-6237	-	-	Music Scan
TMT-7046	-	-	Recording standard Normal : UR
AC-513	-	-	Recording standard CrO ₂ : SA
TW-2111, TW-2121	-	-	Forward/reverse play torque measuring
TW-2231	-	-	Feed forward/rewind torque measuring
C-120 Tape	-	-	Confirming the tape running

2. Adjustment and repairing the mechanism

Item	Adjustment method	Standard value	Remarks
Head azimuth	<p>Deck A</p> <ol style="list-style-type: none"> Connect an electronic voltmeter to the TP001 (figure 3) to playback VTT-703L. Adjust screw Ⓐ so that the indication of the voltmeter becomes maximum when PLAY (▶) is pressed. Adjust screw Ⓑ so that the indication of the voltmeter becomes maximum when PLAY (◀) is pressed. <p>Deck B</p> <ol style="list-style-type: none"> Adjust screw Ⓒ so that the indication of the voltmeter becomes maximum when PLAY (▶) is pressed. Adjust screw Ⓓ so that the indication of the voltmeter becomes maximum when PLAY (◀) is pressed. After making the adjustment, apply screw lock to prevent screws Ⓒ, Ⓑ, Ⓓ and Ⓕ coming loose. 	Maximum	<p>1. Refer to figure 1.</p> <p>2. When the specified characteristic cannot be obtained because of head wear, excessive magnetization, etc., replace the head assembly and adjust the head azimuth. Also, perform the electric adjustment.</p> <p>3. When there is the difference of more than 3 ~ 4 dB between left and right output levels, replace the head assembly to avoid complaints.</p>
Playback torque	1. Measure the torque in the playback mode by the torqu meter.	26 ~ 62 g-cm	When the standard torque cannot be obtained, replace the FR arm assembly or motor.
Fast forward torque	1. Measure the torque in the fast forward mode by the torqu meter.	80 ~ 200 g-cm	When the standard torque cannot be obtained, replace the FR arm assembly or motor.
Rewind torque	1. Measure the torque in the rewind mode by the torqu meter.	80 ~ 200 g-cm	When the standard torque cannot be obtained, replace the FR arm assembly or motor.
Wow & flutter	<ol style="list-style-type: none"> Connect the wow & flutter meter to the TP001 (figure 3) and play back VTT-712. Its reading should be within 0.2% (WTD). 	—	As a complaint may occur if the wow & flutter fluctuates by 0.1% even though it is allowed in the standard, repairing is required.



Deck A

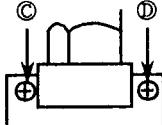


Figure 1

Deck B

3. Electrical Adjustments (Make the following adjustments after adjusting the head azimuth.)

In principle, the adjustments should be made in the following sequence.

Set the NR switch to OFF and the BEAT CUT switch to "1".

Adjustments marked with an asterisk (*) should always be made after the head is replaced

0dBs = 0.775V

	Item	Adjustment Method	Adjustment Location	Standard Value	Remarks
1	Tape Speed	1. Connect a frequency counter to the TP001 (figure 3) and play back VTT-712. 2. Normal speed Adjustment 1) Mechanism B Play back deck B to adjust the semi-fixed resistor VR265. 2) Mechanism A Play back deck A to adjust the semi-fixed resistor VR255. 3. High-speed adjustment 1) Mechanism B Play back deck B and adjust the semi-fixed resistor VR266. 1) Mechanism A Play back deck A and adjust the semi-fixed resistor VR256.	VR265 VR255 VR266 VR256	3,000 Hz ± 10Hz 3,000Hz ± 10Hz 6,000 Hz ± 20Hz 6,000Hz ± 20Hz	1) Adjust the normal speed first, and perform the high speed adjustment. 2) For high speed control deck A and deck B, make a close circuit between the test point TP003 , W065 and W066 (deck A), W066 and W131 (deck B). (while deck B is in PLAY mode , make the above close circuit) but while making a short circuit don't press any function on the deck.
* 2	Standard level (Playback Level)	1. Connect an electronic voltmeter to the TP001 (figure 3). Play back VTT-724 (1 kHz : -4dBs) to adjust the semi-fixed resistors.	Deck A L: VR221 R: VR222 Deck B L: VR223 R: VR224	- 5.5dBs (411mV) ± 1dB	1) The playback level varies when the head is replaced so should be adjusted. Use an electronic voltmeter with an impedance of 100 kΩ or more.
* 3	Playback Frequency Response	1. Connect an electronic voltmeter to the TP001 (figure 3). 2. Play VTT-703L(10kHz : -10dBs) and adjust semi-fixed resistors to obtain the standard values.	Deck A L: VR203 R: VR204 Deck B L: VR205 R: VR206	- 11.5dBs (206mV) ± 3dB	—
* 4	Recording Bias Frequency	1. Connect a frequency counter to the TP002 (figure 3), and perform a recording to adjust bias frequency .	L335	104 kHz ± 6 kHz	Set the BEAT CUT SWITCH to "1"
* 5	Record / Play Frequency Response (Bias current)	1. Supply 1kHz and 12.5kHz with 30mV signals to VIDEO/AUX terminals respectively. to record them. 2. Connect an electronic voltmeter to the TP001 (figure 3) to confirm the values. 3. If the values are not satisfied , adjust the semi-fixed resistors and record the signal again to confirm the values.	L: VR335 R: VR336	0 ± 3 dB for 12.5 kHz with 1 kHz as the standard.	Refer to figure 2 below. 1) The recording and playback frequencies of a cassette deck are adjusted by adjusting the bias. 2) Perform the adjustment with normal tape and confirm that the values are within the range for metal tape.

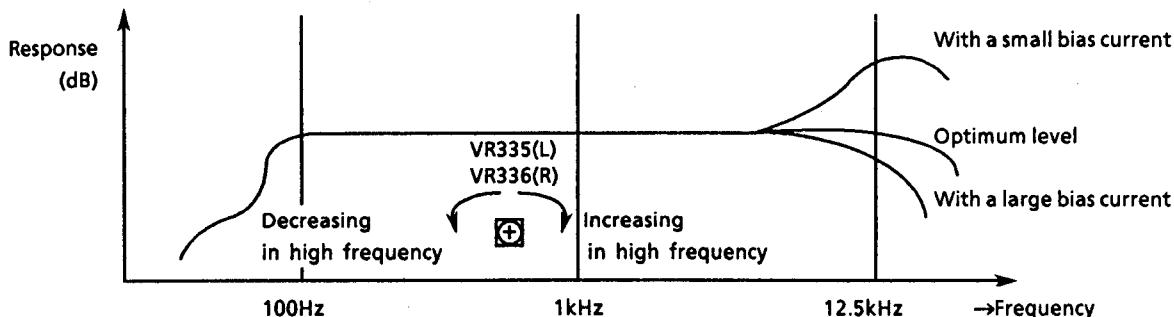


Figure 2

Item	Adjustment Method	Adjustment Location	Standard Value	Remarks
* 6 Record / Playback Sensitivity	1. Input a 1 kHz (-8.2dBs: 300mV) signal to VIDEO / AUX terminals and record it on the left and right channels. 2. Connect an electronic voltmeter to the TP001 (figure 3) to confirm the values. 3. If the values are not satisfied, adjust the semi-fixed resistors and record the signal again to confirm the values.	L : VR367 R : VR368	-5.5dBs (411mV)	Adjust with normal tape and make sure that the left/right level difference is 1.0dB or less
7 Erase ratio check	1. Record a music source using the Metal tape. 2. Rewind and erase the recorded section. 3. Confirm nothing can be heard.	-	-	-
8 Auto-stop check	1. Make sure to operate AUTO STOP at the end of tape running and not to operate on the way of the playing.	-	-	-
9 Music Scan	1. Make sure not to work the music scanning operation at the start of tape wind. 2. Make sure to work the music scanning operation at the end of tape wind.	-	-	-

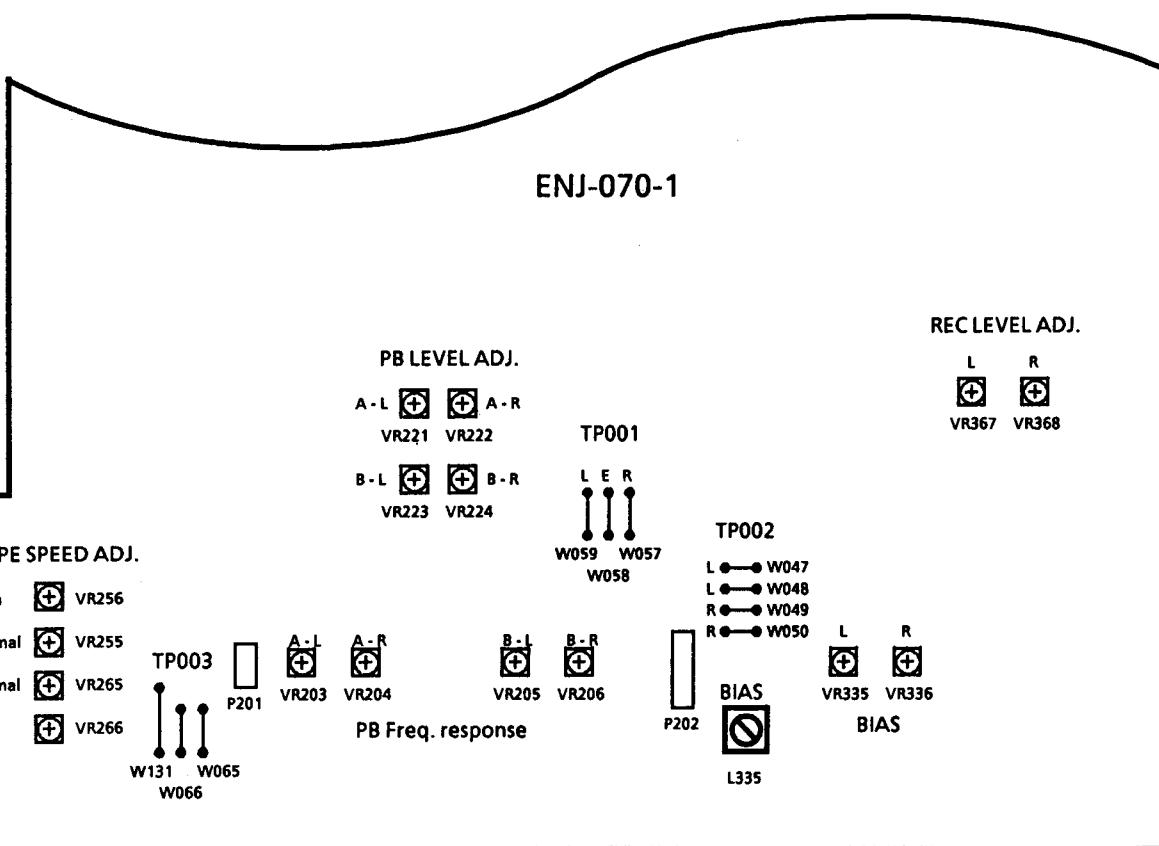


Figure 3

Adjustment Procedures ■ Tuner section

Tuning range

Area	Range		
	LW (kHz)	MW (kHz)	FM (MHz)
Continental Europe, the U.K	144~353	522~1629	87.5~108
Australia	—	522~1629	87.5~108
Universal type(AM Channel space 9kHz)	—	531~1602	87.5~108
Universal type(AM Channel space 10kHz)	—	530~1600	87.5~108

(1) Tuning voltage

Confirm the voltages in the table below at TP101. If the voltages are not satisfied, replace T102 for AM or FE101 for FM.

FM Tuning voltage (Unit : V)

Area	Frequency			
	64.0MHz	74.0MHz	87.5MHz	108MHz
the U.K., Continental Europe, Australia, Universal	—	—	1.6 ± 1.0 (V)	8.0 ± 2.0 (V)

AM Tuning voltage (Unit : V)

Area	Frequency (MW)							Frequency (LW)		
	522KHz	530KHz	531KHz	1600KHz	1602KHz	1629KHz	1710KHz	144kHz	290kHz	353kHz
the U.K., Continental Europe	0.9 ± 0.2	—	—	—	—	7.5 ± 0.8	—	0.8 ± 0.4	—	7.7 ± 0.6
Australia	0.9 ± 0.2	—	—	—	—	7.5 ± 0.8	—	—	—	—
Universal (Chanel space9kHz)	—	—	1.0 ± 0.2	—	7.2 ± 0.7	—	—	—	—	—
Universal (Chanel space10kHz)	—	0.9 ± 0.2	—	7.2 ± 0.7	—	—	—	—	—	—

(2) FM center meter

Receive a broadcast by using the function of 'AUTO STOP'.

Adjust T105 (detector coil) so that the voltage at TP102 becomes $0 \pm 1.5\text{mV}$.

(T106 is used to minimize the distortion of output on the production line.)

(3) MW Tracking

Adjust T101 (antenna coil) to obtain the best receiving sensitivity on 600kHz or 603kHz.

Adjust TC105 (antenna trimmer) to obtain the best receiving sensitivity on 1400kHz or 1404kHz.

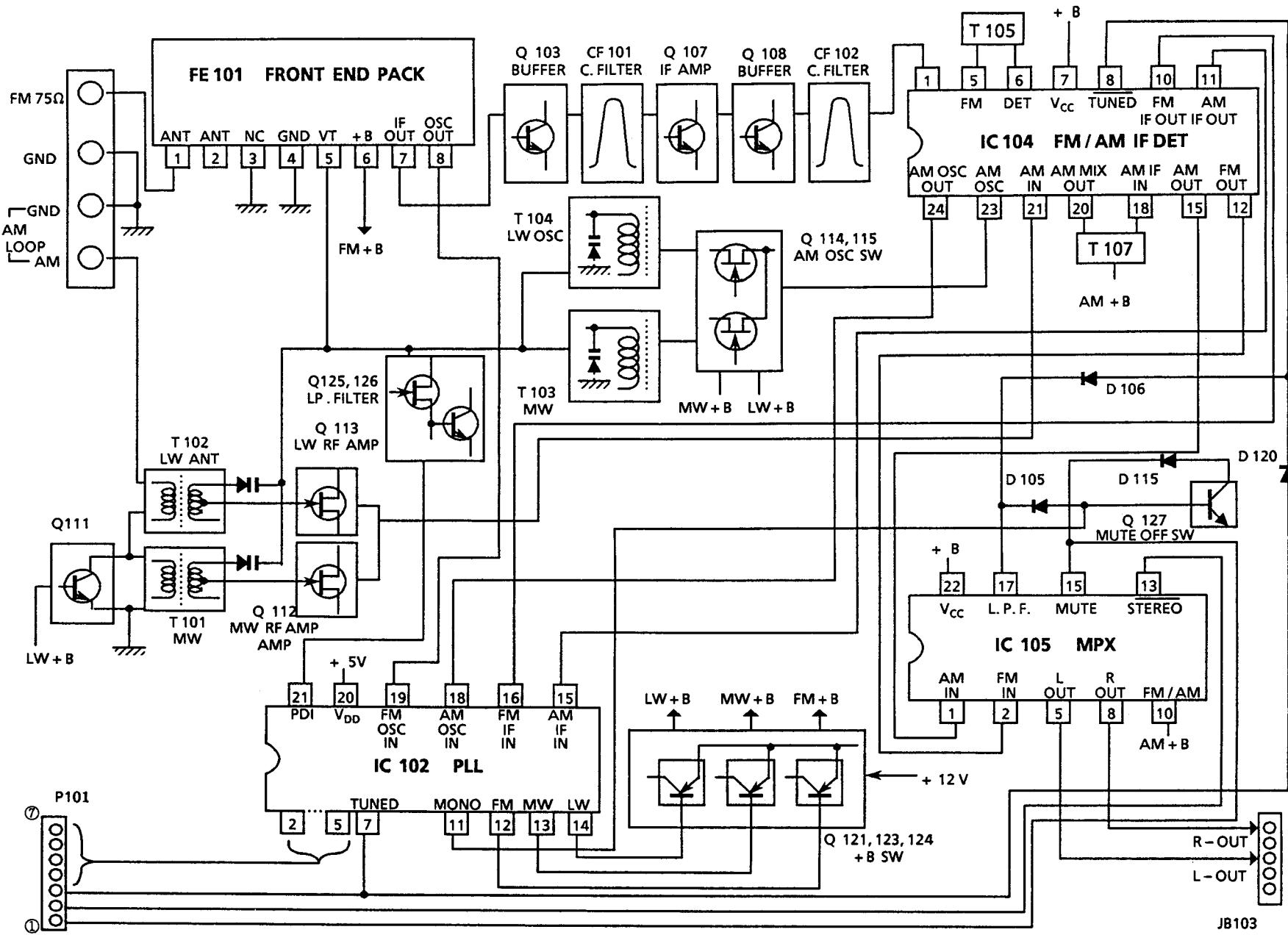
(4) LW Tracking

Adjust T102 (antenna coil) to obtain the best receiving sensitivity on 164kHz.

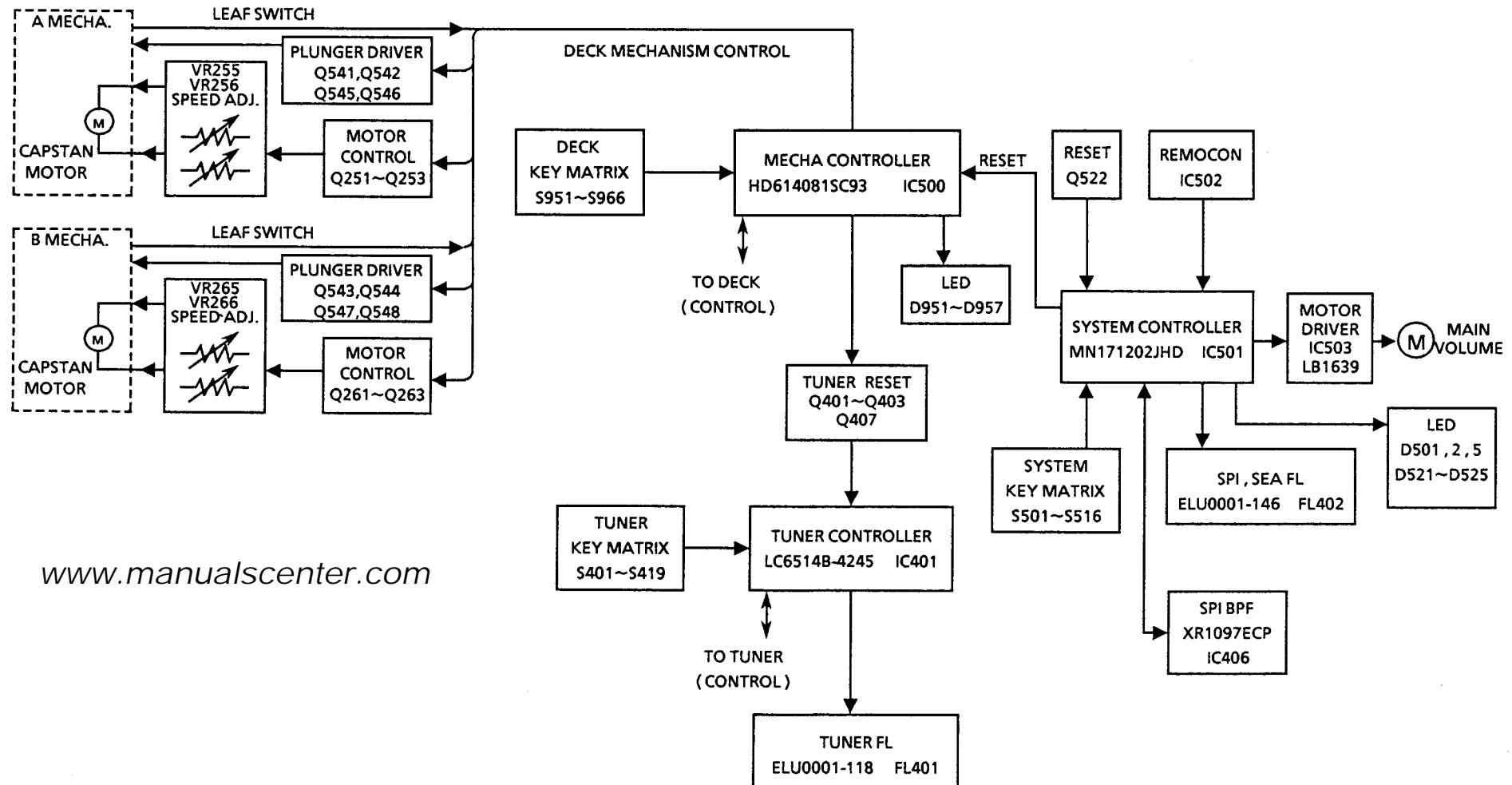
Adjust TC106 (antenna trimmer) to obtain the best receiving sensitivity on 353kHz.

Block Diagram

■ Tuner Section



■ System control & Display Section

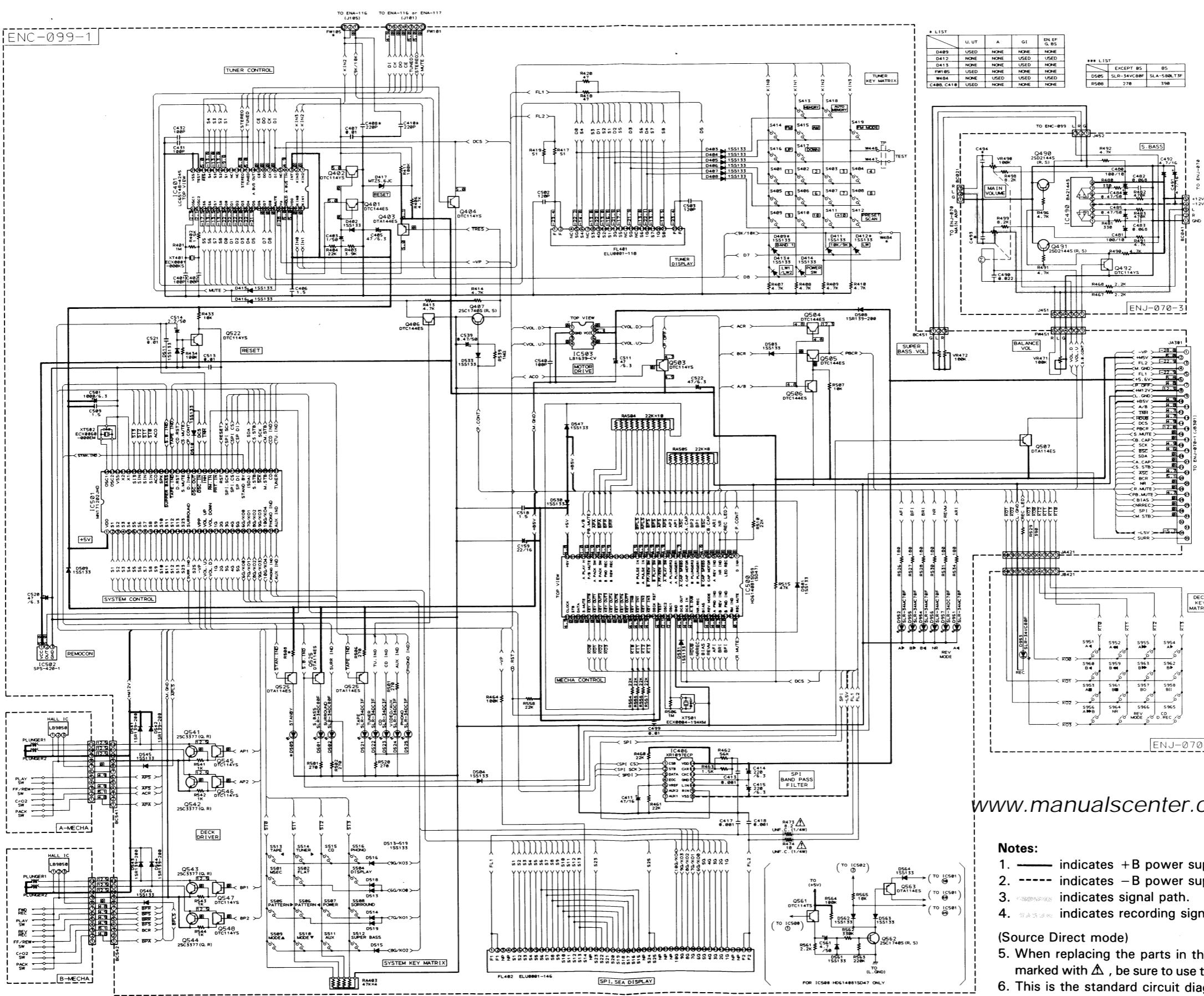


Schematic Diagrams

■ Display & Control Section

DR-E58BK
DR-E59TN

DR-E58BK
DR-E59TN



www.manualscenter.com

Notes:

1. —— indicates +B power supply
 2. ----- indicates -B power supply.
 3. ~~虚线~~ indicates signal path.
 4. ~~虚线~~ indicates recording signal path.

(Source Direct mode)

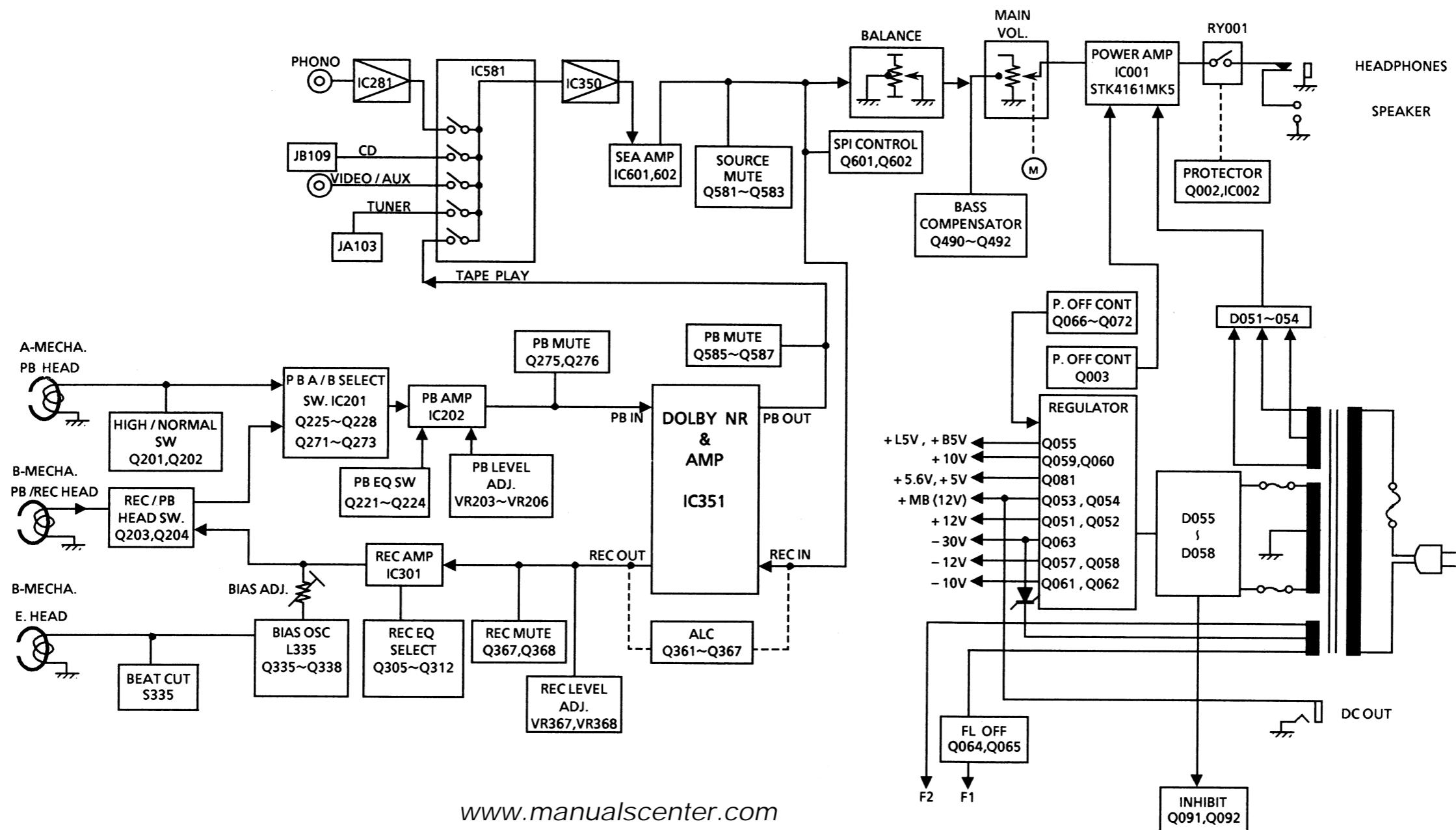
5. When replacing the parts in the darkened area (■■■■) and those marked with Δ , be sure to use the designated parts to ensure safety.

6. This is the model to be built.

6. This is the standard circuit diagram.
The design and contents are subject

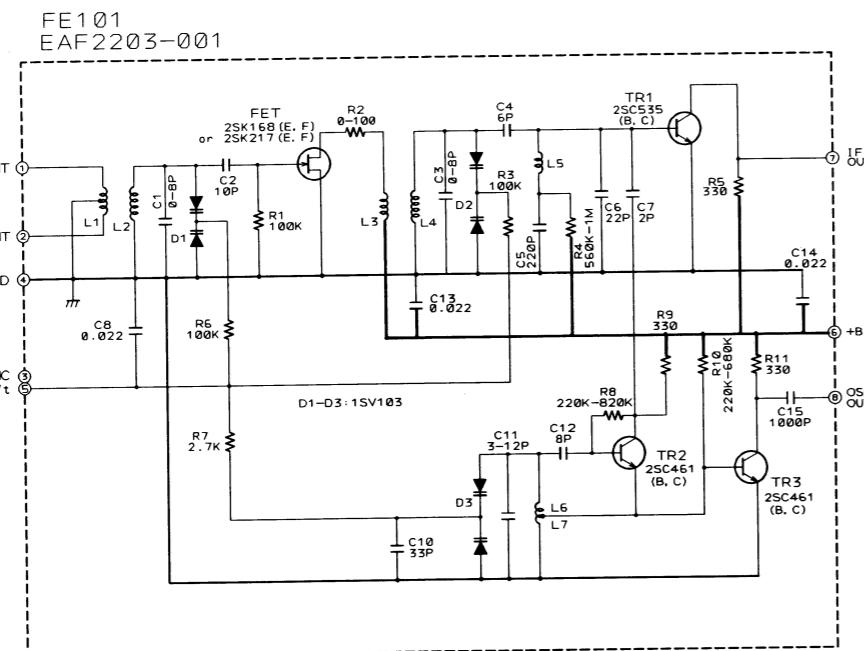
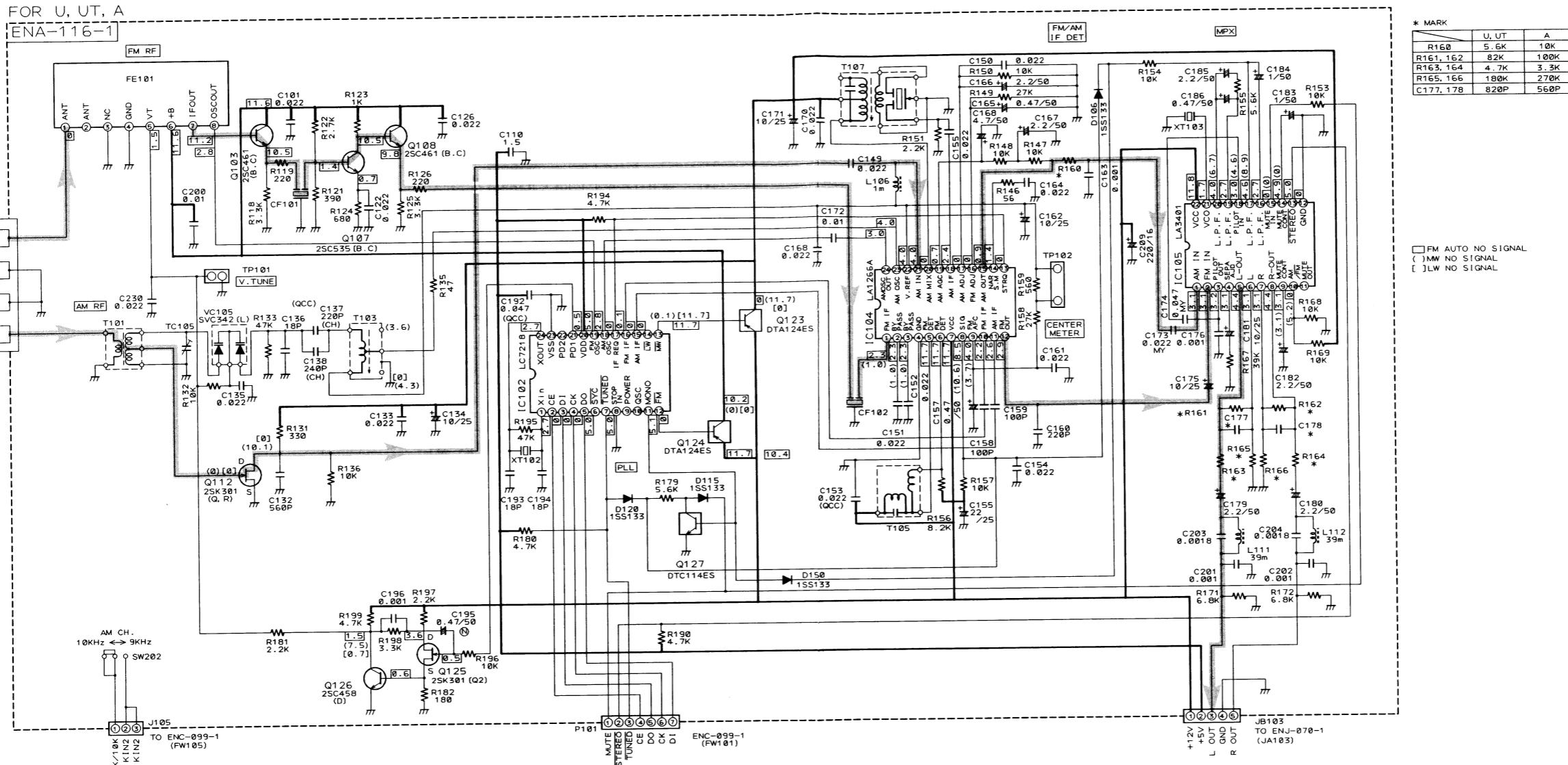
The design and contents are subject to change without notice.

■ Power Supply & Audio Section



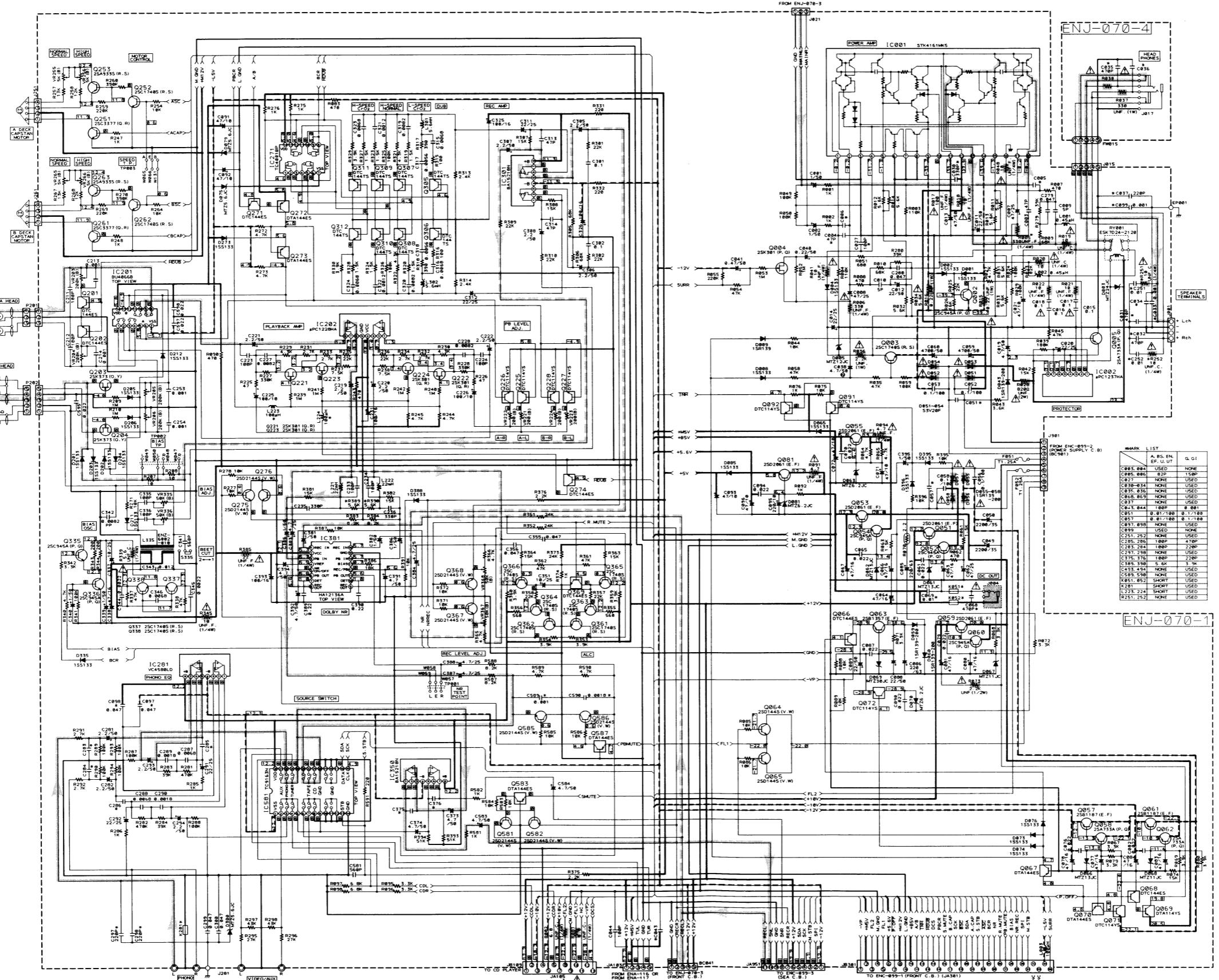
www.manualscenter.com

■ Preset SEA Module & AC Power Supply Section



www.manualscenter.com

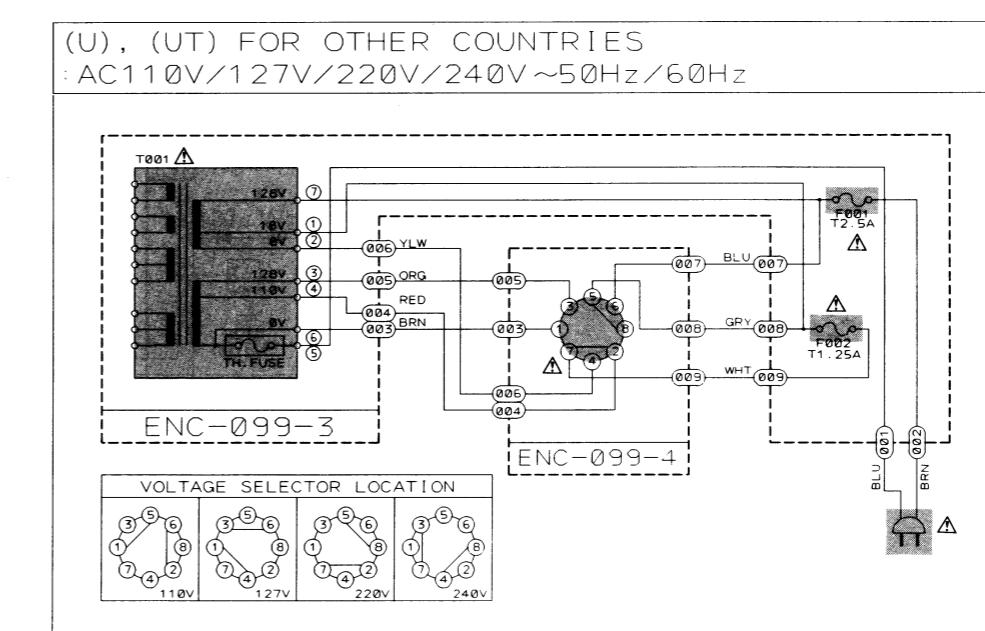
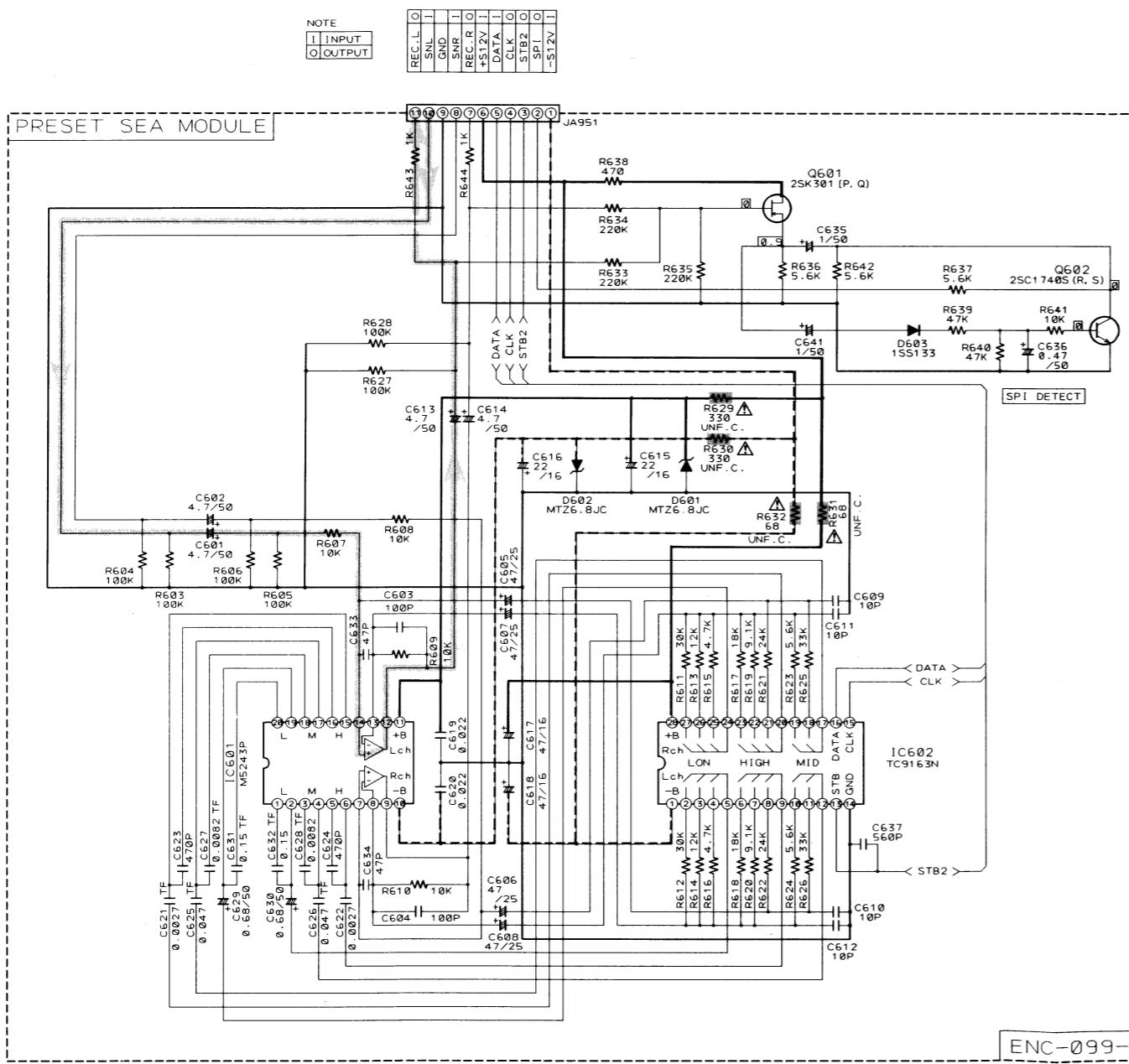
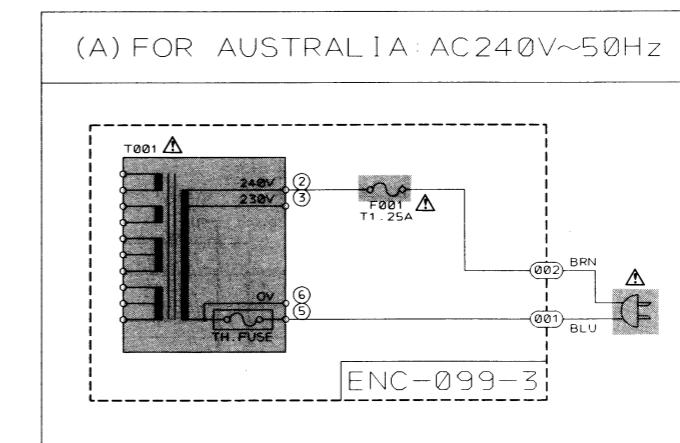
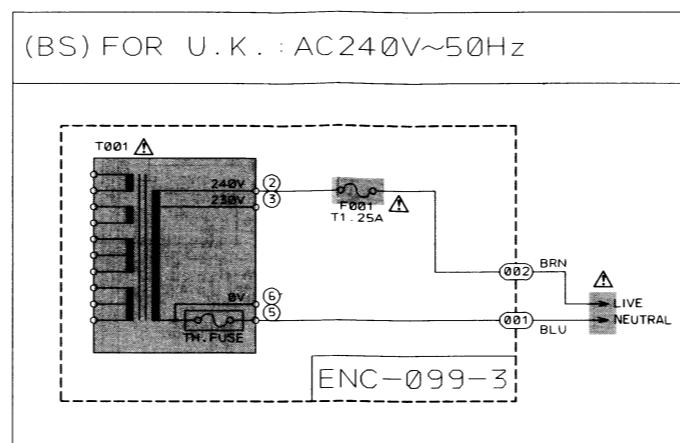
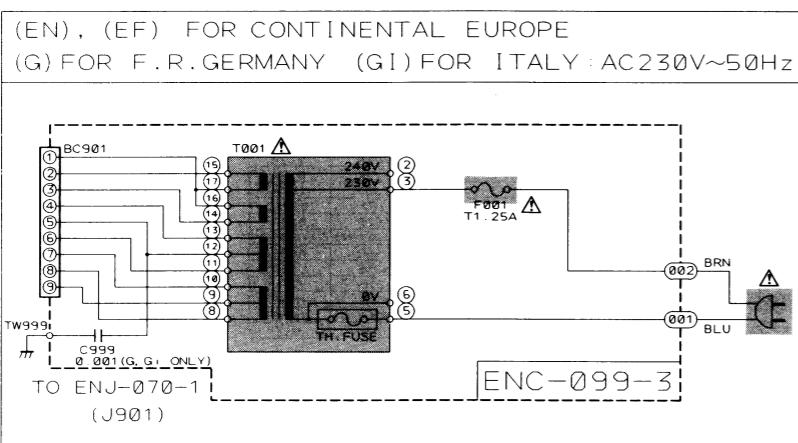
■ Cassette Control & Amplifier Section



DR-E58BK
DR-E59TN

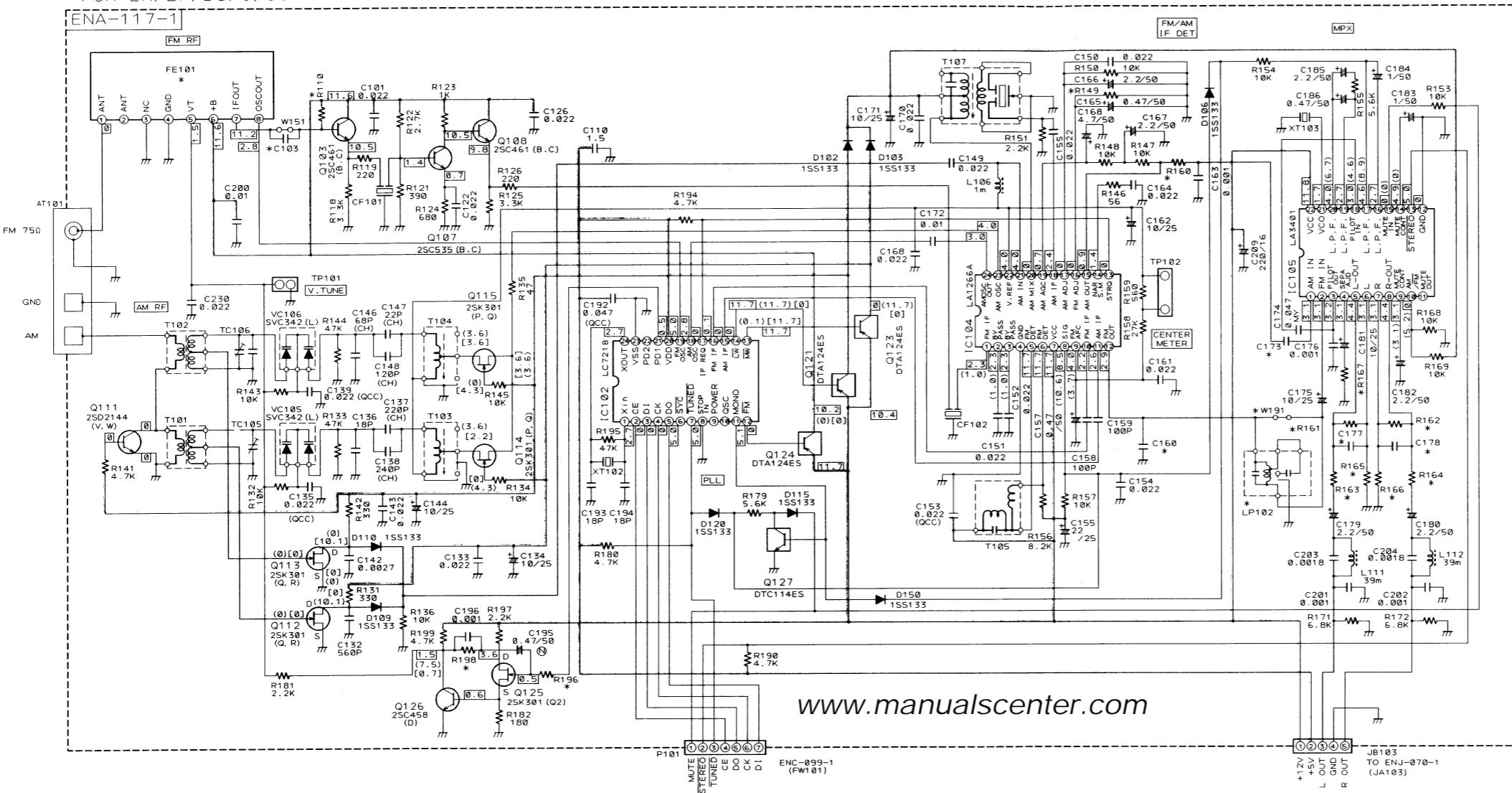
DR-E58BK
DR-E59TN

■ Tuner Section



■ Tuner Section

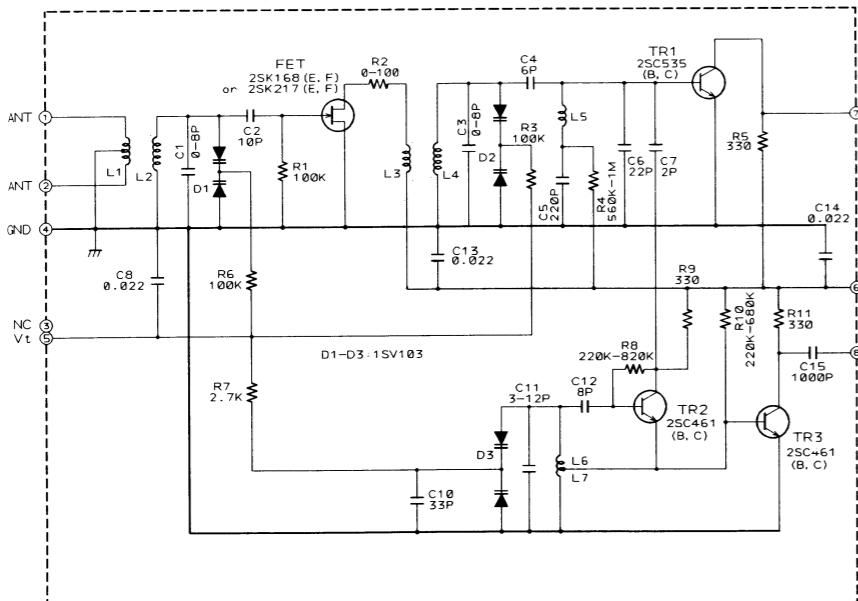
FOR EN, EF, BS, G, GI



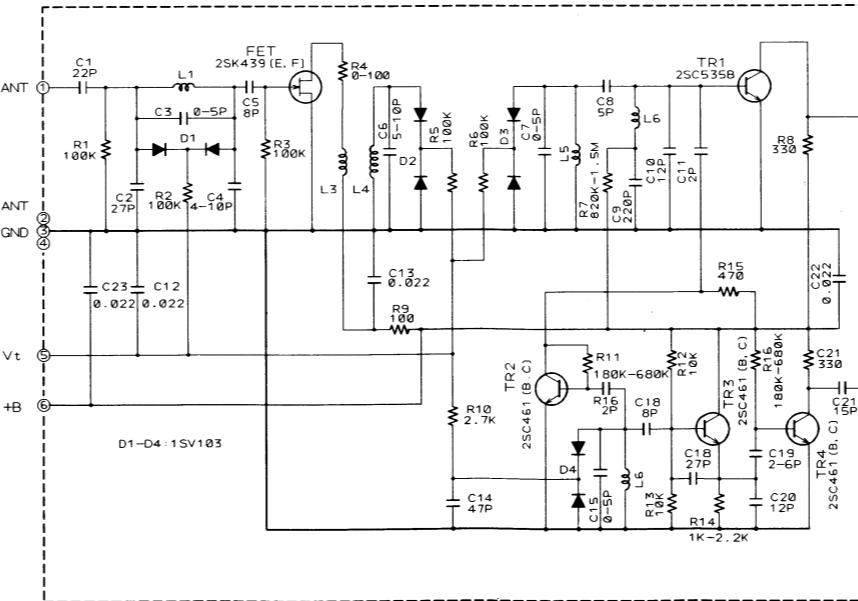
* MARK		EN, EF	G, GI	BS
R160		10K	10K	1K
R161, 162		100K	100K	68K
R163, 164		3..9K	3..9K	3..9K
R165, 166		270K	270K	270K
R167		4.7K	4.7K	4.7K
R196		2..2K	2..2K	2..2K
R198		8..2K	8..2K	8..2K
C160		100P	220P	100P
C173		0..022	0..022	0..022
C177, 178		560P	560P	820P
FE101		EEAF2203-001	EEAF2203-003	EEAF2203-001
LP102		NONE	USED	NONE
W191		USED	NONE	USED
R149		27K	27K	27K
R110		NONE	NONE	NONE
C103		NONE	NONE	NONE
W151		USE	USE	USE

FM AUTO NO SIGNAL
 MW NO SIGNAL
 LW NO SIGNAL

FE101
EAF2203-001 (FOR EN, EF, BS)

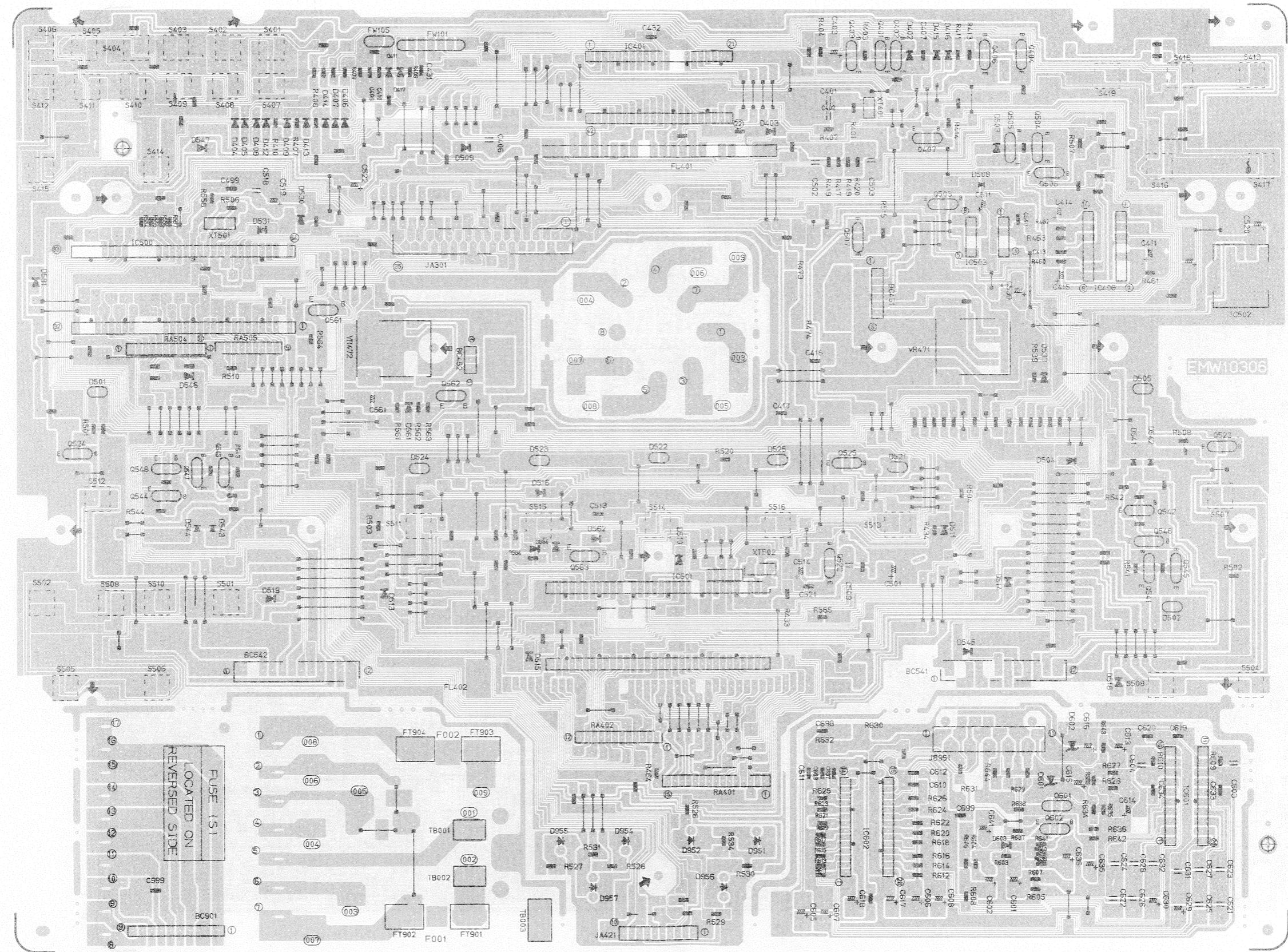


FE101
EAF2203-003 (FOR G, G)



Printed Circuit Boards

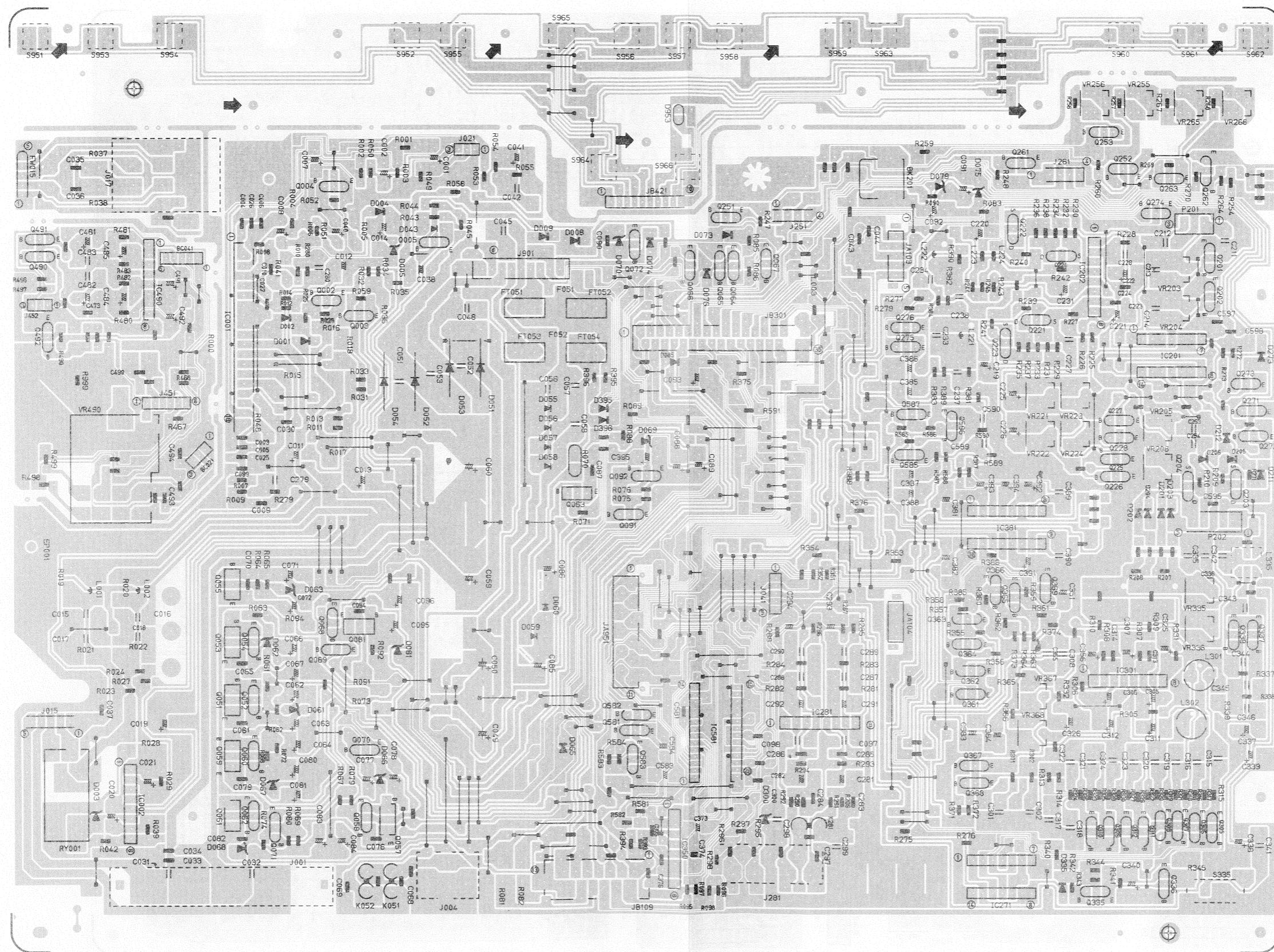
■ Display & Control P.C. Board (ENC-099)

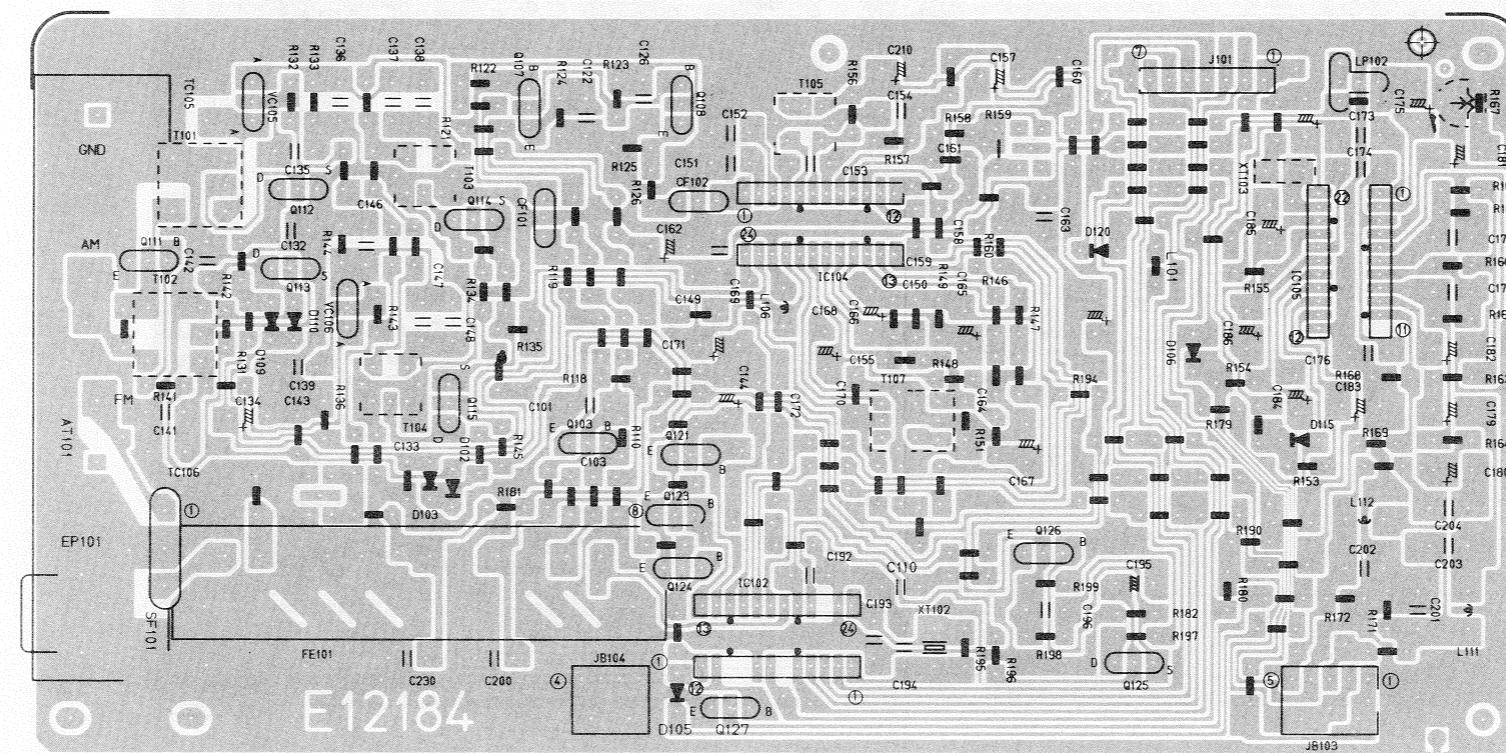


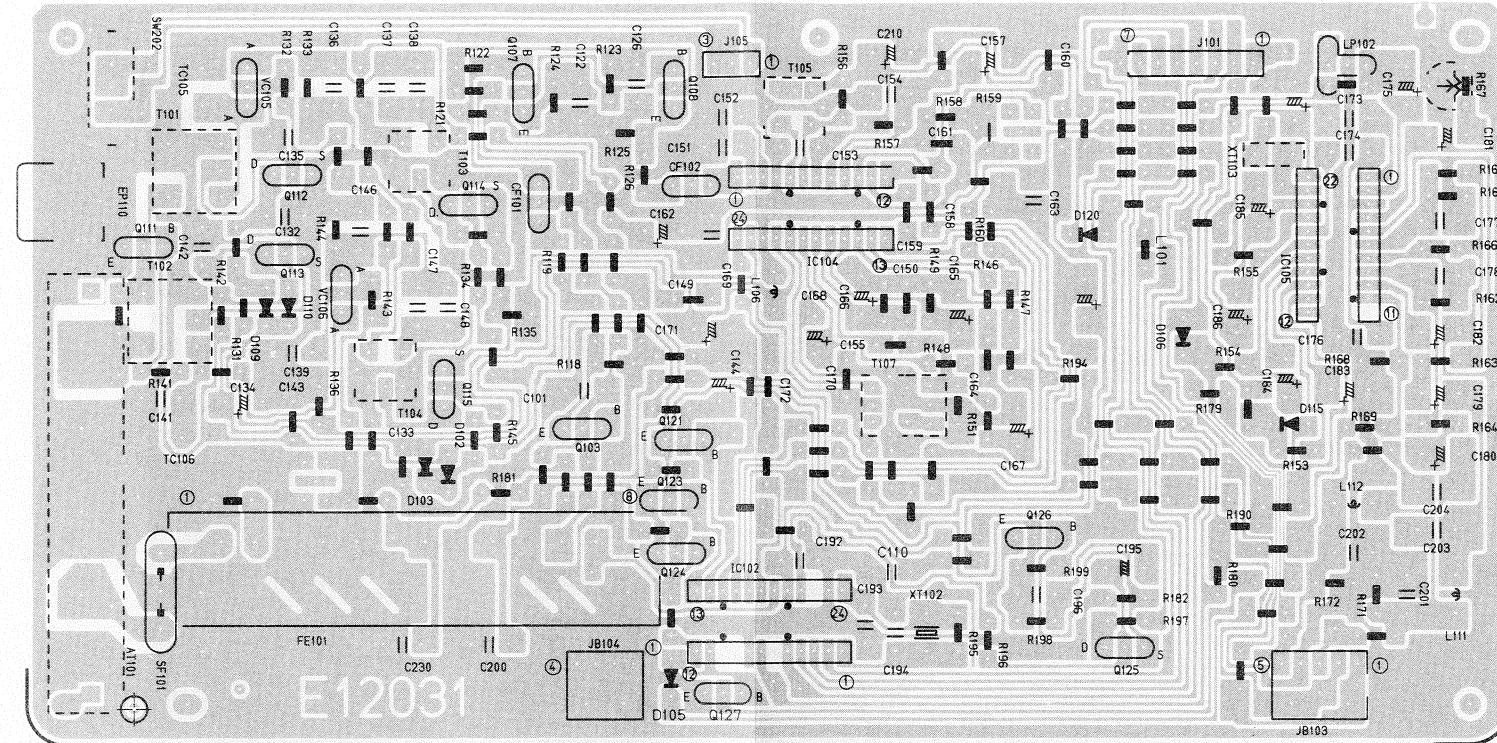
DR-E58BK
DR-E59TN

DR-E58BK
DR-E59TN

■ Cassette Control & Amplifier P.C. Board (ENJ-070)







PARTS LIST

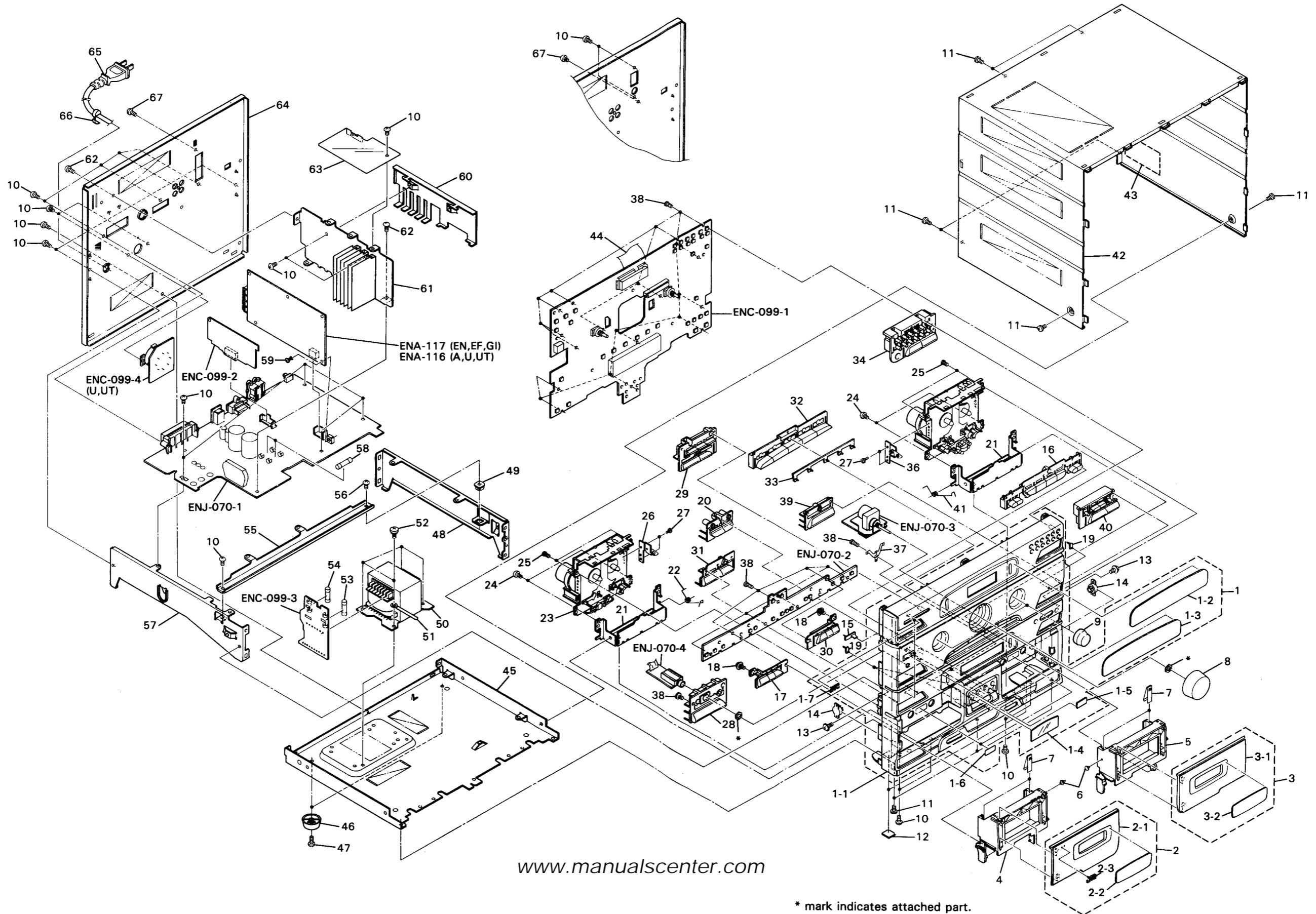
www.manualscenter.com

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

Contents

General Exploded View and Parts List	3 - 3
Cassette Mechanism Ass'y and Parts List	3 - 8
■ A Mechanism	3 - 8
■ B Mechanism	3 - 11
Printed Circuit Board Ass'y and Parts List	3 - 14
■ ENJ-070 <input type="checkbox"/> Cassette Control & Amplifier PC Board Ass'y	3 - 14
■ ENC-099 <input type="checkbox"/> Display & Control PC Board Ass'y	3 - 19
■ ENA-116 <input type="checkbox"/> Tuner PC Board Ass'y	3 - 22
■ ENA-117 <input type="checkbox"/> Tuner PC Board Ass'y	3 - 24
Accessories List	3 - 26
Packing Materials and Part Numbers	3 - 27

General Exploded View and Parts List



www.manualscenter.com

* mark indicates attached part.

■ Parts List

△	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-DRE59TNE (S)	FRONT PANEL ASSY	1		
	1-1	E102654-003SS	FRONT PANEL	1		
	1-2	E308304-001SS	WINDOW SCREEN	1		
	1-3	E308304-002SS	WINDOW SCREEN	1		
	1-4	E308306-001SS	WINDOW SCREEN	1		
	1-5	E407335-001SS	REMOTE PLATE	1		
	1-6	E69777-003	REFLECTION PLATE	2		
	1-7	E406971-221	JVC MARK	3		
	2	E207741-001SA	CASSETTE LID ASSY	1	(A)	
	2-1	E207741-001SS	CASSETTE LID	1	(A)	
	2-2	E308308-001SS	WINDOW SCREEN	1	(A)	
	2-3	E406971-221	JVC MARK	1	(A)	
	3	E207743-001SA	CASSETTE LID ASSY	1	(B)	
	3-1	E207743-001SS	CASSETTE LID	1	(B)	
	3-2	E308308-001SS	WINDOW SCREEN	1	(B)	
	4	E207713-002SS	CASSETTE HOLDER	1	(A)	
	5	E207715-002SS	CASSETTE HOLDER	1	(B)	
	6	E75600-001	SHAFT	2		
	7	E406713-001	CASSETTE SPRING	4		
	8	E308096-007	KNOB	1		
	9	E308138-003	KNOB	2		
	10	SBSG3008N	SCREW	18		A
		SBSG3008N	SCREW	1		EF
		SBSG3008N	SCREW	2		EN
		SBSG3008N	SCREW	2		
	11	SBSG3008N	SCREW	2		GI
		SBSG3008N	SCREW	3		U
		SBSG3008N	SCREW	3		UT
	12	SDSG3008M	SCREW	9		
	12	E75896-001	SPACER	2	FRONT FOOT	
	13	GBSG3008Z	SCREW	2		
	14	E304434-002	DAMPER ASSY	2		
	15	E406938-331	INDICATOR	1		
	16	E207711-001SS	PUSH BUTTON	1	REC	
	17	E308296-003SS	PUSH BUTTON	1	(A)	
	18	GBSF2608Z	SCREW	2		
	19	E406673-001	INDICATOR	3		
	20	E308302-001SS	PUSH BUTTON	1	DOLBY	
	21	E307328-002SS	HOLDER BRACKET	2		
	22	E406661-001SS	HOLDER SPRING	1	(A)	
	23	-----	A MECHANISM ASSY	1	SEE PAGE 3-8	
	24	SBST3006C	SCREW	4		
	25	SDSF2608C	SCREW	4		
	26	E406935-002	LOCK CAM	1	LEFT (A)	
	27	SPST2004Z	SCREW	4		
	28	E308291-001SS	PUSH BUTTON	1	POWER	
	29	E207707-001SS	PUSH BUTTON	1	TUNING	
	30	E308298-003SS	PUSH BUTTON	1	(B)	
	31	E308288-001SS	PUSH BUTTON	1	SEA	
	32	E207709-001SS	PUSH BUTTON	1	SOURCE	

△	Item	Part Number	Part Name	Q'ty	Description	Areas
	33	E308310-001	INDICATOR	1		
	34	E207703-001SS	PUSH BUTTON	1		A
		E207703-003SS	PUSH BUTTON	1		EF
		E207703-003SS	PUSH BUTTON	1		EN
		E207703-003SS	PUSH BUTTON	1		GI
		E207703-001SS	PUSH BUTTON	1		U
		E207703-001SS	PUSH BUTTON	1		UT
	35	-----	B MECHANISM ASSY	1	SEE PAGE 3-11	
	36	E406936-002	LOCK CAM	1	RIGHT (B)	
	37	E305914-001	LEAF SPRING	2		
	38	SDSF2608Z	SCREW	25		
	39	E308294-003SS	PUSH BUTTON	1	S.BASS	
	40	E207705-001SS	PUSH BUTTON	1	(B)	
	41	E406662-001SS	HOLDER SPRING	1		
	42	E207033-006SS	METAL COVER	1		
	43	E308522-020	RATING LABEL	1		UT
	44	EWR635K-25TTJ2	FLAT WIRE	1		
	45	E12213-002SS	CHASSIS BASE	1		
	46	E47227-012	FOOT	2	REAR	
	47	SBSG3010Z	SCREW	2	FOR FOOT	
	48	E306660-002SS	SIDE BRACKET	1	RIGHT	
	49	E306764-001	FASTENER	1		
	50	ETP1050-31EAJ	POWER TRANSFORMER	1		A
		ETP1050-31EAJ	POWER TRANSFORMER	1		EF
		ETP1050-31EAJ	POWER TRANSFORMER	1		EN
		ETP1050-31EAJ	POWER TRANSFORMER	1		GI
		ETP1050-31FAJ	POWER TRANSFORMER	1		U
		ETP1050-31FAJ	POWER TRANSFORMER	1		UT
	51	E72018-001	WIRE CLAMP	1		
	52	E65389-004	SPECIAL SCREW	4		
	53	QMF51E2-1R25J1	FUSE	1	F001 (T1.25A/250V)	A
		QMF51E2-1R25J1	FUSE	1	F001 (T1.25A/250V)	EF
		QMF51E2-1R25J1	FUSE	1	F001 (T1.25A/250V)	EN
		QMF51E2-1R25J1	FUSE	1	F001 (T1.25A/250V)	GI
		QMF51E2-2R5J1	FUSE	1	F001 (T1.25A/250V)	U
	54	QMF51E2-2R5J1	FUSE	1	F001 (T2.5A/250V)	UT
		QMF51E2-1R25J1	FUSE	1	F002 (T1.25A/250V)	U
		QMF51E2-1R25J1	FUSE	1	F002 (T1.25A/250V)	UT
	55	E306281-001SS	BRACKET	1		
	56	SBSG3010CC	SCREW	1		
	57	E306659-001SS	SIDE BRACKET	1	LEFT	
	58	QMF51E2-1R25J1	FUSE	2	F051,F052 (T1.25A/250V)	A
		QMF51E2-1R25J1	FUSE	2	F051,F052 (T1.25A/250V)	EF
		QMF51E2-1R25J1	FUSE	2	F051,F052 (T1.25A/250V)	EN
		QMF51E2-1R25J1	FUSE	2	F051,F052 (T1.25A/250V)	GI
		QMF51E2-1R25J1	FUSE	2	F051,F052 (T1.25A/250V)	U
		QMF51E2-1R25J1	FUSE	2	F051,F052 (T1.25A/250V)	UT
	59	E48729-008	PLASTIC RIVET	1		
	60	E306705-002SS	LEAF SPRING	1		
	61	E306770-004SS	HEAT SINK	1		
	62	SBSG3012M	SCREW	2		

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	63	E75940-331SS	COVER	1		
	64	E102394-050SS	REAR PANEL	1		A
		E102394-051SS	REAR PANEL	1		EF
		E102394-051SS	REAR PANEL	1		EN
		E102394-051SS	REAR PANEL	1		GI
		E102394-049SS	REAR PANEL	1		U
⚠	65	E102394-049SS	REAR PANEL	1		UT
⚠		QMP25F0-244	POWER CORD	1		A
⚠		QMP3900-200	POWER CORD	1		EF
⚠		QMP3900-200	POWER CORD	1		EN
⚠		QMP3900-200	POWER CORD	1		GI
⚠		QMP7520-200	POWER CORD	1		U
⚠		QMP7520-200	POWER CORD	1		UT
⚠	66	QHS3876-162	CORD STOPPER	1		A
⚠		QHS3876-162	CORD STOPPER	1		EF
⚠		QHS3876-162	CORD STOPPER	1		EN
⚠		QHS3876-162	CORD STOPPER	1		GI
⚠		QHS3876-162	CORD STOPPER	1		U
⚠		QHS3876-162	CORD STOPPER	1		UT
	67	SBST3006N	SCREW	1		
	68	E36997-242	PROTECT SHEET	1		
-		E61029-005	NUMBER LABEL	1		
-		QZL1031-101	LABEL	1		EF
-		E70027-001	LABEL	1		EN

⚠ SAFETY PARTS

The Marks for Designated Areas

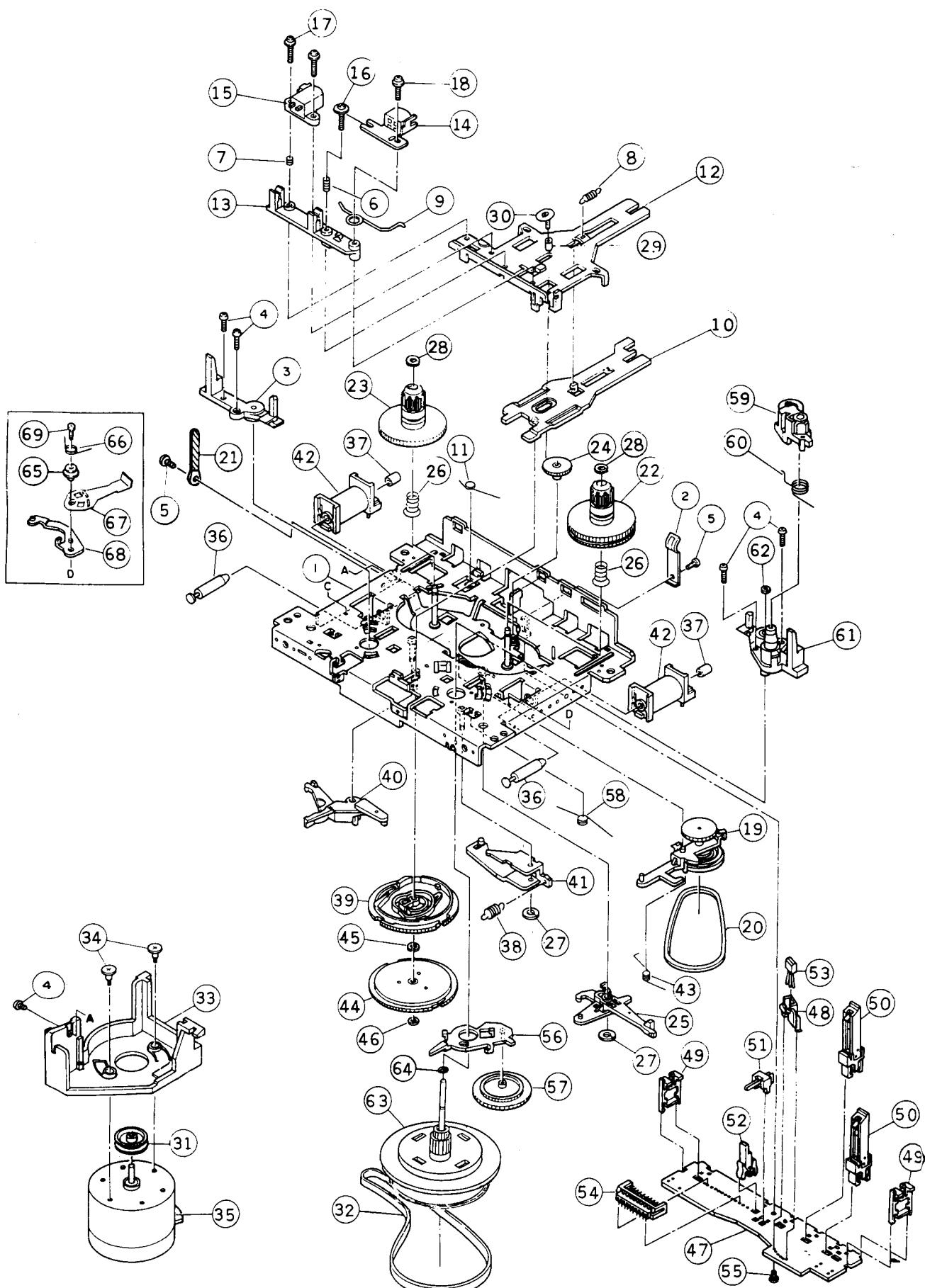
A	Australia	EN	Scandinavia	EF	Continental Europe
GI	Italy	UT	Taiwan	U	Universal Type

No mark indicates all areas.

www.manualscenter.com

Cassette Mechanism Ass'y and Parts List

■ A Mechanism



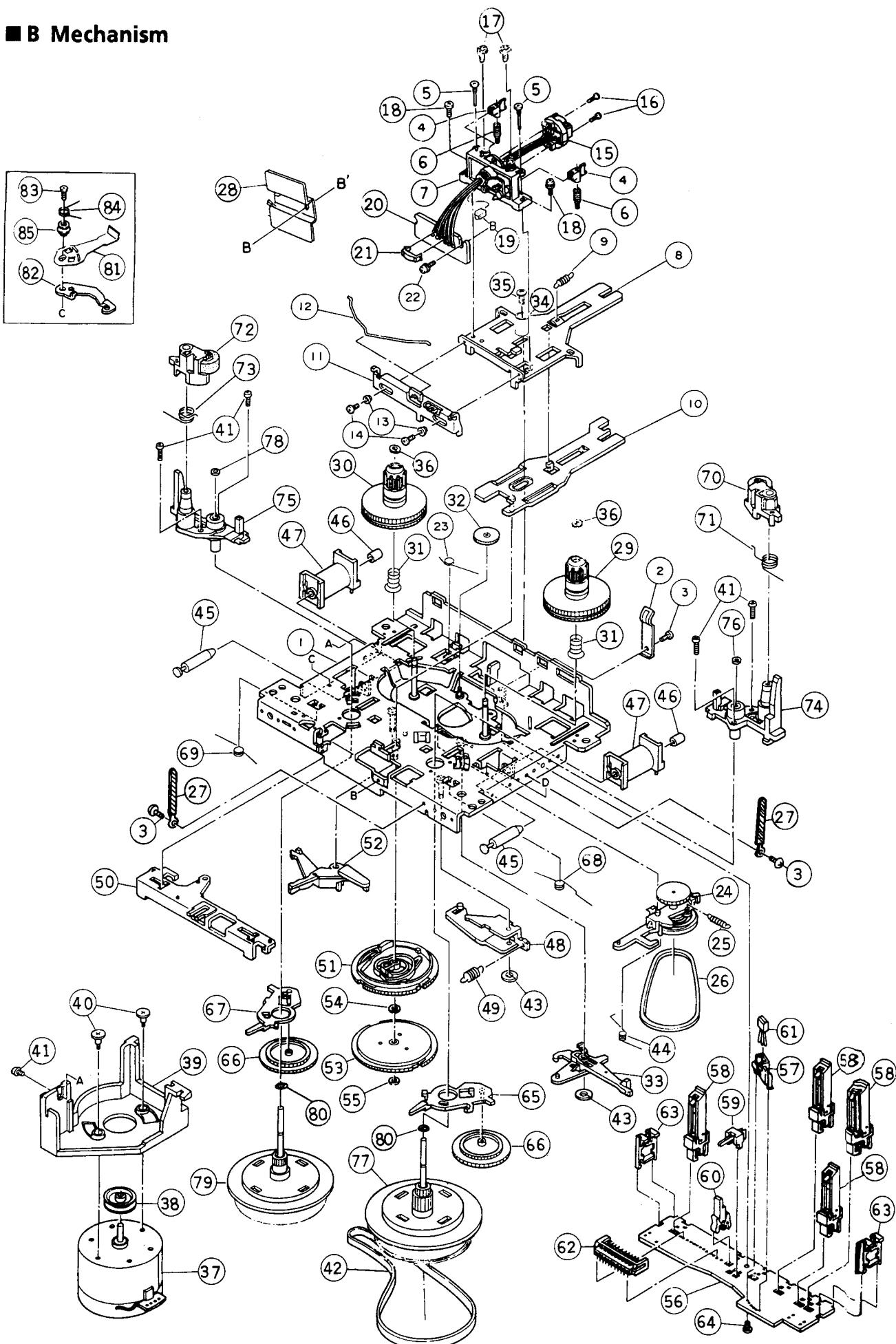
■ Parts List (A Mechanism)

Item	Part Number	Part Name	Q'ty	Description	Areas
1	188801501T	CHASSIS BASE	1		
2	18800102T	PACK SPRING	1		
3	18880106T	TAPE GUIDE	1		
4	SPST2005Z	SCREW	5		
5	SPST2004Z	SCREW	2		
6	18210307T	AZIMUTH SPRING	1		
7	18210308T	EH.SPRING	1		
8	18800204T	RC. SPRING	1		
9	18800406T	PINCH ROLLER SPRING	1		
10	188802501T	HEAD PANEL	1		
11	18880204T	HEAD FRONT SPRING	1		
12	18880209T	HEAD PANEL (A)	1		
13	18880211T	HEAD BASE	1		
14	62020188T	RECORD & PLAYBACK HEAD	1		
15	62011303T	DAMY HEAD	1		
16	9F0820591T	AZIMUTH SCREW	1		
17	9P1720111T	SCREW	2		
18	9P1720591T	SCREW	1		
19	188807307T	RF. CLUTCH	1		
20	18880707T	RF BELT	1		
21	11140302T	WIRE CLAMP	1		
22	188805301T	TAKE-UP REEL ASSY (F)	1		
23	188805307T	TAKE-UP REEL ASSY (R)	1		
24	18880508T	FF. GEAR	1		
25	18880509T	RF. TRIGGER ARM	1		
26	18880515T	B.T. SPRING (R)	2		
27	9W0640040T	HL. WASHER CUT	2		
28	9W0640030T	HL. WASHER CUT	2		
29	18880216T	PANEL COLLAR	1		
30	9C2520503T	SCREW	1		
31	18881210T	MOTOR PULLEY	1		
32	18880925T	M. BELT	1		
33	18881202T	MOTOR BRACKET	1		
34	19211202T	MOTOR COLLAR SCREW	2		
35	MMI-6H2LWK	DC MOTOR	1		
36	18802105T	PLUNGER	2		
37	18802106T	PLUNGER HOLDER	2		
38	18802111T	P.K. LEVER SPRING	1		
39	18882102T	M. GEAR	1		
40	18882103T	M. TRIGGER ARM	1		
41	18882104T	P. KICK LEVER	1		
42	18882108T	SOLENOID	2		
43	18882109T	TRIGGER ARM SPRING	1		
44	18882110T	RF. CAM GEAR	1		
45	REE2000	E.RING	1		
46	9W0650040T	HL. WASHER CUT	1		
47	18885306T	P. BASE	1		
48	18885303T	IC PROTECTOR	1		
49	18885304T	P. BASE STAND	2		
50	640101193T	LEAF SWITCH	2		
51	640101194T	LEAF SWITCH	1		
52	640101195T	LEAF SWITCH	1		
53	68040604T	HALL IC	1		
54	68150205T	CONNECTOR	1		
55	SPST2004Z	SCREW	1		

Item	Part Number	Part Name	Q'ty	Description	Areas
56	188805501T	T. GEAR ARM (F) ASSY	1		
57	18880507T	T. GEAR	1		
58	18880516T	T.G.ARMS (F) SPRING	1		
59	188804301T	PINCH ROLLER ARM (F) ASSY	1		
60	18800403T	P. ARM (F) SPRING	1		
61	188809301T	FL. METAL (F) ASSY	1		
62	9W0650050T	HL. WASHER CUT	1		
63	188809311T	FLYWHEEL ASSY	1		
64	9W0520030T	HL. WASHER	1		
65	18801305T	E. STOPPER COLLAR	1		
66	18801320T	SPRING	1		
67	18881309T	EJECT STOPPER	1		
68	18881302T	EJECT STOPPER	1		
69	99991404T	SCREW	1		

www.manualscenter.com

■ B Mechanism



■ Parts List (B Mechanism)

Item	Part Number	Part Name	Q'ty	Description	Areas
1	188801501T	CHASSIS BASE	1		
2	18800102T	PACK SPRING	1		
3	SPST2004Z	SCREW	3		
4	18650250AT	TAPE GUIDE	2		
5	18650252T	SCREW	2		
6	18650254T	GUIDE SPRING	2		
7	188002307T	HEAD BASE ASSY	1		
8	18880202T	HEAD PANEL (A)	1		
9	18800204T	RC SPRING	1		
10	188802501T	HEAD PANEL (B) ASSY	1		
11	18800206T	CHP LEVER	1		
12	18800405T	PINCH ROLLER SPRING	1		
13	18650228T	CHP LEVER COLLAR	2		
14	9C0117301T	SCREW	2		
15	62020606T	HEAD	1		
16	9F1316482T	SCREW	2		
17	9P1520063T	SCREW	2		
18	9P0220051T	SCREW	2		
19	18650961T	SPACER	1		
20	18650234T	RELAY BOARD	1		
21	18650249T	WIRE CLAMP	1		
22	9P1220051T	SCREW	1		
23	18880204T	HEAD PANEL SPRING	1		
24	188807307T	RF. CLUTCH ASSY	1		
25	18880709T	RF. PULLER ARM SPRING	1		
26	18880707T	RF BELT	1		
27	11140302T	CORD CLAMP	2		
28	18880212T	SHIELD PLATE	1		
29	188805301T	T. REEL ASSY (F)	1		
30	188805302T	T. REEL ASSY (R)	1		
31	18880515T	B.T. SPRING	2		
32	18880508T	FF. GEAR	1		
33	18880509T	RF. TRIGGER ARM	1		
34	18880216T	PANEL COLLAR	1		
35	9C2520503T	SCREW	1		
36	9W0640030T	HL. WASHER CUT	2		
37	MMI-6H2LWK	DC MOTOR	1		
38	18881210T	MOTOR PULLEY (U)	1		
39	18881202T	MOTOR BRACKET	1		
40	19211202T	SCREW	2		
41	SPST2005Z	SCREW	5		
42	18880925T	M. BELT	1		
43	9W0640040T	HL. WASHER CUT	2		
44	18882109T	TRIGGER ARM SPRING	1		
45	18802105T	PLUNGER	2		
46	18802106T	PLUNGER HOLDER	2		
47	18882108T	SOLENOID	2		
48	18882104T	P. KICK LEVER	1		
49	18802111T	P.K. LEVER SPRING	1		
50	18882101T	CH. SLIDE LEVER	1		
51	18882102T	M. GEAR	1		
52	18882103T	M. TIRGGER ARM	1		
53	18882110T	RF. CAM GEAR	1		
54	REE2000	E.RING	1		
55	9W0650040T	HL. WASHER CUT	1		

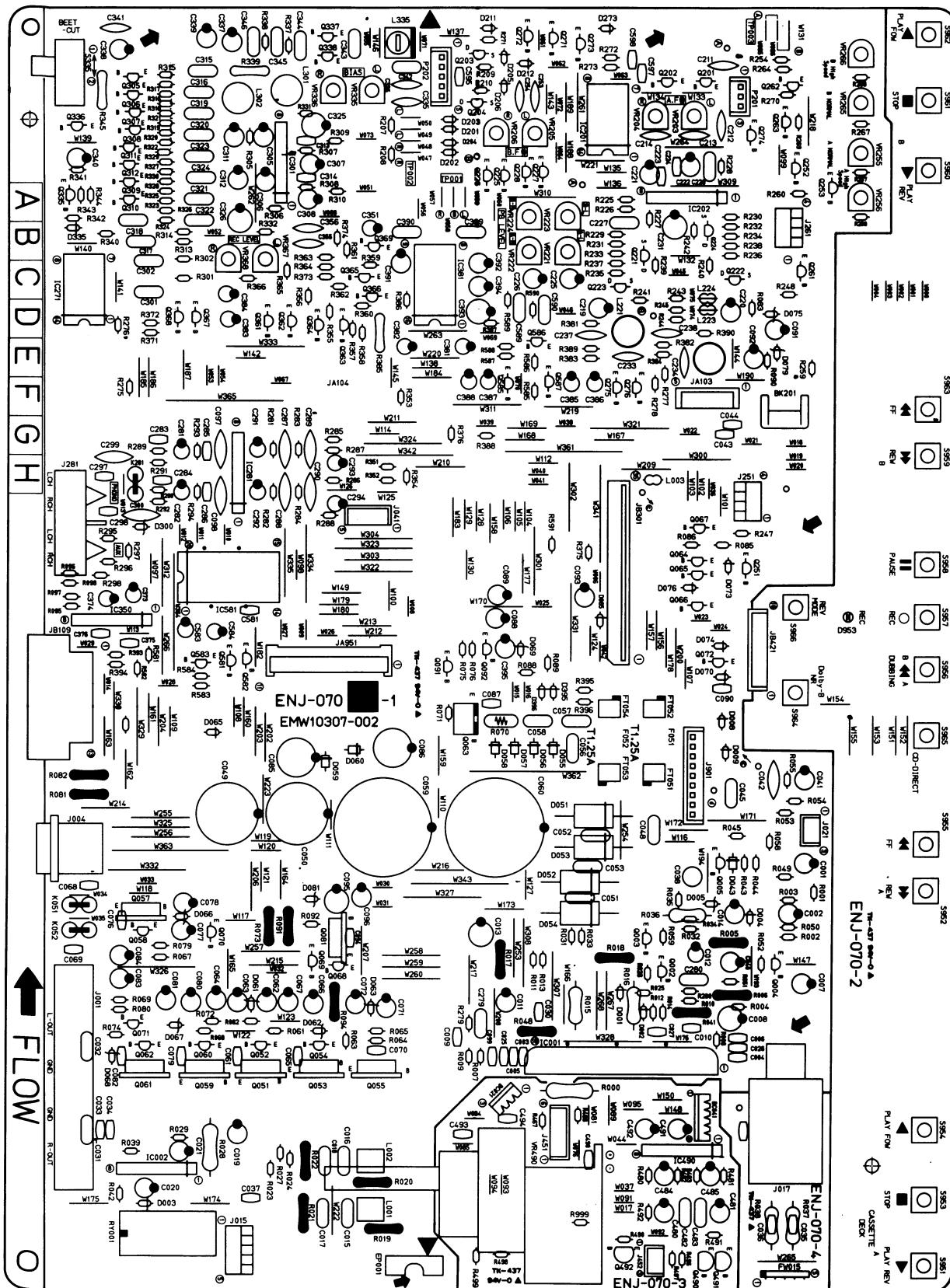
Item	Part Number	Part Name	Q'ty	Description	Areas
56	18885306T	P. BASE	1		
57	18885303T	IC PROTECTOR	1		
58	640101193T	LEAF SWITCH	4		
59	640101194T	LEAF SWITCH	1		
60	640101195T	LEAF SWITCH	1		
61	68040604T	HALL IC	1		
62	68150206T	CONNECTOR	1		
63	18885304T	P. BASE STAND	2		
64	SPST2004Z	SCREW	1		
65	188805501T	T. GEAR ARM (F) ASSY	1		
66	18880507T	T. GEAR	2		
67	188805502T	T. GEAR ARM (R) ASSY	1		
68	18880513T	T.G. ARM (F) SPRING	1		
69	18880514T	T.G. ARM (R) SPRING	1		
70	188804301T	PINCH ROLLER ARM (F) ASSY	1		
71	18800403T	P. ARM (F) SPRING	1		
72	188804302T	PINCH ROLLER ARM (R) ASSY	1		
73	18800404T	P. ARM (R) SPRING	1		
74	188809301T	FL METAL (F) ASSY	1		
75	188809302T	FL METAL (R) ASSY	1		
76	9W0650050T	HL. WASHER CUT	1		
77	188809311T	FLYWHEEL (F) ASSY	1		
78	9W0650080T	HL. WASHER CUT	1		
79	188809312T	FLYWHEEL (R) ASSY	1		
80	9W0520030T	HL. WASHER	2		
81	18881309T	EJECT STOPPER	1		
82	18881303T	EJECT STOPPER B (R)	1		
83	99991404T	SCREW	1		
84	18801321T	E. STOPPER SPRING (R)	1		
85	18801305T	E. STOPPER COLLAR	1		

www.manualscenter.com

Printed Circuit Board Ass'y and Parts List

■ ENJ-070 □ Cassette Control & Amplifier PC Board Ass'y

Note : ENJ-070 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENJ-070 [A]	Taiwan, Universal Type
ENJ-070 [B]	Scandinavia, Australia Continental Europe
ENJ-070 [C]	Italy

TRANSISTORS

△ ITEM	PART NUMBER	DESCRIPTION	AREA
Q002	2SC945AC(P,Q)	SILICON	NEC
Q003	2SC1740S(R,S)	SILICON	ROHM
Q004	2SK301(P,Q)	F.E.T	MATSUSHITA
Q005	2SA733A(P,Q)	SILICON	NEC
Q051	2SD2061(E,F)	SILICON	ROHM
Q052	2SC945AC(P,Q)	SILICON	NEC
Q053	2SD2061(E,F)	SILICON	ROHM
Q054	2SC945AC(P,Q)	SILICON	NEC
Q055	2SD2061(E,F)	SILICON	ROHM
Q057	2SB1187(E,F)	SILICON	ROHM
Q058	2SA733A(P,Q)	SILICON	NEC
Q059	2SD2061(E,F)	SILICON	ROHM
Q060	2SC945AC(P,Q)	SILICON	NEC
Q061	2SB1187(E,F)	SILICON	ROHM
Q062	2SA733A(P,Q)	SILICON	NEC
Q063	2SB1357(E,F)	SILICON	ROHM
Q064	2SD2144S(VW)	SILICON	ROHM
Q065	2SD2144S(VW)	SILICON	ROHM
Q066	DTC144ES	SILICON	ROHM
Q067	DTC144ES	SILICON	ROHM
Q068	DTC144ES	SILICON	ROHM
Q069	DTA114YS	SILICON	ROHM
Q070	DTA144ES	SILICON	ROHM
Q071	DTC114YS	SILICON	ROHM
Q072	DTC114YS	SILICON	ROHM
Q081	2SD2061(E,F)	SILICON	ROHM
Q091	DTC114YS	SILICON	ROHM
Q092	DTC114YS	SILICON	ROHM
Q201	DTC144ES	SILICON	ROHM
Q202	DTC144ES	SILICON	ROHM
Q203	2SK373(O,Y)	F.E.T	TOSHIBA
Q204	2SK373(O,Y)	F.E.T	TOSHIBA
Q221	2SK301(Q,R)	F.E.T	MATSUSHITA
Q222	2SK301(Q,R)	F.E.T	MATSUSHITA
Q223	2SK301(Q,R)	F.E.T	MATSUSHITA
Q224	2SK301(Q,R)	F.E.T	MATSUSHITA
Q225	DTC114YS	SILICON	ROHM
Q226	DTC114YS	SILICON	ROHM
Q227	DTC114YS	SILICON	ROHM
Q228	DTC114YS	SILICON	ROHM
Q251	2SC3377(Q,R)	SILICON	ROHM
Q252	2SC1740S(R,S)	SILICON	ROHM
Q253	2SA933S(R,S)	SILICON	ROHM
Q261	2SC3377(Q,R)	SILICON	ROHM
Q262	2SC1740S(R,S)	SILICON	ROHM
Q263	2SA933S(R,S)	SILICON	ROHM
Q271	DTC144ES	SILICON	ROHM
Q272	DTA144ES	SILICON	ROHM
Q273	DTA144ES	SILICON	ROHM
Q274	DTC144ES	SILICON	ROHM
Q275	2SD2144S(VW)	SILICON	ROHM
Q276	2SD2144S(VW)	SILICON	ROHM
Q305	DTC144TS	SILICON	ROHM
Q306	DTC144TS	SILICON	ROHM
Q307	DTC144TS	SILICON	ROHM
Q308	DTC144TS	SILICON	ROHM
Q309	DTC144TS	SILICON	ROHM
Q310	DTC144TS	SILICON	ROHM
Q311	DTC144TS	SILICON	ROHM
Q312	DTC144TS	SILICON	ROHM
Q335	2SC945AC(P,Q)	SILICON	NEC
Q336	2SC945AC(P,Q)	SILICON	NEC
Q337	2SC1740S(R,S)	SILICON	ROHM
Q338	2SC1740S(R,S)	SILICON	ROHM
Q361	2SC1740S(R,S)	SILICON	ROHM
Q362	2SC1740S(R,S)	SILICON	ROHM
Q363	2SC1740S(R,S)	SILICON	ROHM
Q364	2SC1740S(R,S)	SILICON	ROHM
Q365	2SC1740S(R,S)	SILICON	ROHM
Q366	2SC1740S(R,S)	SILICON	ROHM
Q367	2SD2144S(VW)	SILICON	ROHM
Q368	2SD2144S(VW)	SILICON	ROHM
Q369	DTC144ES	SILICON	ROHM
Q490	2SD2144S(VW)	SILICON	ROHM
Q491	2SD2144S(VW)	SILICON	ROHM
Q492	DTC114YS	SILICON	ROHM
Q581	2SD2144S(VW)	SILICON	ROHM
Q582	2SD2144S(VW)	SILICON	ROHM
Q583	DTA144ES	SILICON	ROHM
Q585	2SD2144S(VW)	SILICON	ROHM
Q586	2SD2144S(VW)	SILICON	ROHM
Q587	DTA144ES	SILICON	ROHM

△ : SAFETY: PARTS

I. C. S.

△ ITEM	PART NUMBER	DESCRIPTION		AREA
IC001	STK4161MK5	I.C.	SANYO	
IC002	UPC1237HA	I.C.	NEC	
IC201	BU4066B	I.C.	ROHM	
IC202	UPC1228HA	I.C.	NEC	
IC271	TC4001BP	I.C.	TOSHIBA	
IC281	VC4580LD	I.C.	DAINICHI	
IC301	BA15218N	I.C.	ROHM	
IC350	BA15218N	I.C.	ROHM	
IC381	HA12136A	I.C.	HITACHI	
IC490	BA15218N	I.C.	ROHM	
IC581	TC9163N	I.C.	TOSHIBA	

△ : SAFETY: PARTS

DIODES

△ ITEM	PART NUMBER	DESCRIPTION		AREA
D001	1SS133	SILICON	ROHM	
D002	1SS133	SILICON	ROHM	
D003	MT224JC	ZENER	ROHM	
D004	1SS133	SILICON	ROHM	
D005	MT212JC	ZENER	ROHM	
D008	1SS133	SILICON	ROHM	
D009	1SR139-200	SILICON	ROHM	
D043	1SR139-200	SILICON	ROHM	
D051	S3V20F	SILICON	SINDENGEN	
D052	S3V20F	SILICON	SINDENGEN	
D053	S3V20F	SILICON	SINDENGEN	
D054	S3V20F	SILICON	SINDENGEN	
D055	1SR139-200	SILICON	ROHM	
D056	1SR139-200	SILICON	ROHM	
D057	1SR139-200	SILICON	ROHM	
D058	1SR139-200	SILICON	ROHM	
D059	1SR139-200	SILICON	ROHM	
D060	1SR139-200	SILICON	ROHM	
D061	MT213JC	ZENER	ROHM	
D062	MT213JC	ZENER	ROHM	
D063	MT26.2JC	ZENER	ROHM	
D065	1SS133	SILICON	ROHM	
D066	MT213JC	ZENER	ROHM	
D067	MT211JC	ZENER	ROHM	
D068	MT211JC	ZENER	ROHM	
D069	MTZ30JC	ZENER	ROHM	
D070	MTZ6.2JC	ZENER	ROHM	
D073	1SS133	SILICON	ROHM	
D074	1SS133	SILICON	ROHM	
D075	MTZ5.6JC	ZENER	ROHM	
D076	1SS133	SILICON	ROHM	
D079	MTZ5.6JC	ZENER	ROHM	
D081	MTZ6.2JC	ZENER	ROHM	
D085	1SS133	SILICON	ROHM	
D201	1SS133	SILICON	ROHM	
D202	1SS133	SILICON	ROHM	
D203	1SS133	SILICON	ROHM	
D204	1SS133	SILICON	ROHM	
D205	1SS133	SILICON	ROHM	
D206	1SS133	SILICON	ROHM	
D211	1SS133	SILICON	ROHM	
D212	1SS133	SILICON	ROHM	
D273	1SS133	SILICON	ROHM	
D300	MTZ5.6JC	ZENER	ROHM	
D335	1SS133	SILICON	ROHM	
D388	1SS133	SILICON	ROHM	
D395	1SS133	SILICON	ROHM	
D396	1SS133	SILICON	ROHM	
D953	SLR-34VC3F	L.E.D.	ROHM	

△ : SAFETY: PARTS

CAPACITORS

△ ITEM	PART NUMBER	DESCRIPTION		AREA
C001	EEZ5009-106	10MF	ELECTRO	
C002	EEZ5009-106	10MF	ELECTRO	
C003	QCSB1HJ-470	47PF	50V CERAMIC	A
C004	QCSB1HJ-470	47PF	50V CERAMIC	B
C005	QCSB1HJ-470	47PF	50V CERAMIC	A
C006	QCSB1HJ-470	47PF	50V CERAMIC	B
C007	QCSB1HJ-470	47PF	50V CERAMIC	C
C008	QCSB1HJ-470	47PF	50V CERAMIC	A
C009	QCSB1HJ-470	47PF	50V CERAMIC	B
C005	QCSB1HJ-151	150PF	50V CERAMIC	C
C006	QCSB1HJ-151	150PF	50V CERAMIC	B
C007	QCSB1HJ-151	150PF	50V CERAMIC	C
C008	QCSB1HJ-151	150PF	50V CERAMIC	B
C009	QCSB1HJ-151	150PF	50V CERAMIC	C
C001	EET2501-476B	4.7MF	ELECTRO	
C002	EET2501-476B	4.7MF	ELECTRO	
C003	EET2501-476B	4.7MF	ELECTRO	
C004	EET2501-476B	4.7MF	ELECTRO	
C005	EET2501-476B	4.7MF	ELECTRO	
C006	EET2501-476B	4.7MF	ELECTRO	
C007	EET2501-476B	4.7MF	ELECTRO	
C008	EET2501-476B	4.7MF	ELECTRO	
C009	EET2501-476B	4.7MF	ELECTRO	

△ : SAFETY: PARTS

C A P A C I T O R S

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
C010	QCS81HK-4R7	4.7PF	50V	CERAMIC		
C011	QETB1HM-226	22MF	50V	ELECTRO		
C012	QETB1HM-226	22MF	50V	ELECTRO		
C013	QETB1HM-476	47MF	50V	ELECTRO		
C014	QETB1EM-226	22MF	25V	ELECTRO		
C015	QFLB1HJ-104	0.1MF	50V	MYLAR		
C016	QFLB1HJ-104	0.1MF	50V	MYLAR		
C017	QFLB1HJ-104	0.1MF	50V	MYLAR		
C018	QFLB1HJ-104	0.1MF	50V	MYLAR		
C019	QETB1HM-475	4.7MF	50V	ELECTRO		
C020	QETB1EM-226	22MF	25V	ELECTRO		
C021	QETB1AM-476	47MF	10V	ELECTRO		
C027	QCB81HK-101	100PF	50V	CERAMIC	C	
C030	QCB81HK-331	330PF	50V	CERAMIC	C	
C031	QFLB1HJ-182	1800PF	50V	MYLAR	C	
C032	QFLB1HJ-182	1800PF	50V	MYLAR	C	
C033	QCB81HK-102	1000PF	50V	CERAMIC	C	
C034	QCB81HK-102	1000PF	50V	CERAMIC	C	
C035	QCB81HK-471	470PF	50V	CERAMIC	C	
C036	QCB81HK-471	470PF	50V	CERAMIC	C	
C037	QCB81HK-221	220PF	50V	CERAMIC	C	
C038	QEN51HM-475	4.7MF	50V	NON POLE		
C040	QEKE51HM-224G	0.22MF	50V	ELECTRO		
C041	QETB1HM-474	0.47MF	50V	ELECTRO		
C042	QCF21HP-102	1000PF	50V	CERAMIC		
C043	QCB81HK-101	100PF	50V	CERAMIC	A	
C043	QCB81HK-101	100PF	50V	CERAMIC	B	
C043	QCB81HK-102	1000PF	50V	CERAMIC	C	
C044	QCB81HK-101	100PF	50V	CERAMIC	A	
C044	QCB81HK-102	1000PF	50V	CERAMIC	B	
C049	QETB1VM-228N	2200MF	35V	ELECTRO		
C050	QETB1VM-228N	2200MF	35V	ELECTRO		
C051	QFLB2AJ-103	0.01MF	100V	MYLAR	A	
C051	QFLB2AJ-103	0.01MF	100V	MYLAR	B	
C051	QFV82AJ-104	0.1MF	100V	T.FILM	C	
C052	QFV82AJ-104	0.1MF	100V	T.FILM		
C053	QFV82AJ-104	0.1MF	100V	T.FILM		
C056	QFV82AJ-104	0.1MF	100V	T.FILM		
C057	QFLB2AJ-103	0.01MF	100V	MYLAR	A	
C057	QFLB2AJ-103	0.01MF	100V	MYLAR	B	
C057	QFV82AJ-104	0.1MF	100V	T.FILM	C	
C058	QFV82AJ-104	0.1MF	100V	T.FILM		
C059	QEZO061-478	4700MF	50V	ELECTRO		
C060	QEZO061-478	4700MF	50V	ELECTRO		
C061	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C062	QETB1EM-476	47MF	25V	ELECTRO		
C063	QETB1CM-476	47MF	16V	ELECTRO		
C064	QETB1CM-476	47MF	16V	ELECTRO		
C065	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C066	QETB1CM-476	47MF	16V	ELECTRO		
C067	QETB1CM-476	47MF	16V	ELECTRO		
C068	QCB81HK-471	470PF	50V	CERAMIC	C	
C069	QCVB1CM-103	0.01MF	16V	CERAMIC	C	
C070	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C071	QETB1AM-476	47MF	10V	ELECTRO		
C072	QETB1AM-476	47MF	10V	ELECTRO		
C076	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C077	QETB1CM-476	47MF	16V	ELECTRO		
C078	QETB1CM-476	47MF	16V	ELECTRO		
C079	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C080	QETB1CM-476	47MF	16V	ELECTRO		
C081	QETB1CM-476	47MF	16V	ELECTRO		
C082	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C083	QETB1CM-476	47MF	16V	ELECTRO		
C084	QETB1CM-476	47MF	16V	ELECTRO		
C085	QETB1HM-227	220MF	63V	ELECTRO		
C086	QETB1JM-227	220MF	63V	ELECTRO		
C087	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C088	QETB1HM-226	22MF	50V	ELECTRO		
C089	QETB1HM-226	22MF	50V	ELECTRO		
C090	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C091	QETB1AM-476	47MF	10V	ELECTRO		
C092	QETB1AM-476	47MF	10V	ELECTRO		
C093	QETB1AM-476	47MF	10V	ELECTRO		
C094	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C095	QETB1AM-227	220MF	10V	ELECTRO		
C096	QETB1AM-476	47MF	10V	ELECTRO		
C097	QCF21HP-473	0.047MF	50V	CERAMIC	C	
C098	QCF21HP-473	0.047MF	50V	CERAMIC	C	
C099	QCB81HK-102	1000PF	50V	CERAMIC	A	
C211	QCS21HJ-181	180PF	50V	CERAMIC	B	
C212	QCS21HJ-181	180PF	50V	CERAMIC		
C213	QCY21HK-102	1000PF	50V	CERAMIC		
C214	QCY21HK-102	1000PF	50V	CERAMIC		
C219	QETB1HM-225	2.2MF	50V	ELECTRO		
C220	QETB1HM-225	2.2MF	50V	ELECTRO		
C221	QETB1HM-225	2.2MF	50V	ELECTRO		
C222	QETB1HM-225	2.2MF	50V	ELECTRO		
C223	QCB81HK-101	100PF	50V	CERAMIC		
C224	QCB81HK-101	100PF	50V	CERAMIC		
C225	QETB1AM-107	100MF	10V	ELECTRO		
C226	QETB1AM-107	100MF	10V	ELECTRO		
C227	QFLB1HJ-822	8200PF	50V	MYLAR		

Δ : SAFETY: PARTS

C A P A C I T O R S

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
C228	QFLB1HJ-822	8200PF	50V	MYLAR		
C231	QETB1CM-107	100MF	16V	ELECTRO		
C233	QCS21HJ-101	100PF	50V	CERAMIC		
C234	QCS21HJ-101	100PF	50V	CERAMIC		
C237	QCS21HJ-471	470PF	50V	CERAMIC		
C238	QCS21HJ-471	470PF	50V	CERAMIC		
C253	QCY21HK-102	1000PF	50V	CERAMIC		
C254	QCY21HK-102	1000PF	50V	CERAMIC		
C279	QFN81HJ-473	0.047MF	50V	MYLAR		
C280	QFN81HJ-473	0.047MF	50V	MYLAR		
C281	QETB1HM-225	2.2MF	50V	ELECTRO		
C282	QETB1HM-225	2.2MF	50V	ELECTRO		
C283	QCB81HK-101	100PF	50V	CERAMIC	A	
C283	QCB81HK-101	100PF	50V	CERAMIC	B	
C283	QCB81HK-221	220PF	50V	CERAMIC	C	
C284	QCB81HK-101	100PF	50V	CERAMIC	A	
C284	QCB81HK-101	100PF	50V	CERAMIC	B	
C284	QCB81HK-221	220PF	50V	CERAMIC	C	
C286	QCB81HK-101	100PF	50V	CERAMIC	A	
C286	QCB81HK-101	100PF	50V	CERAMIC	B	
C286	QCB81HK-471	470PF	50V	CERAMIC	C	
C287	QCY21HK-682	6800PF	50V	CERAMIC		
C288	QCY21HK-682	6800PF	50V	CERAMIC		
C289	QCY21HK-182	1800PF	50V	CERAMIC		
C290	QCY21HK-182	1800PF	50V	CERAMIC		
C291	QETB1EM-226	22MF	25V	ELECTRO		
C292	QETB1EM-226	22MF	25V	ELECTRO		
C293	QETB1HM-225	2.2MF	50V	ELECTRO		
C294	QETB1HM-225	2.2MF	50V	ELECTRO		
C297	QCB81HK-221	220PF	50V	CERAMIC	C	
C298	QCB81HK-221	220PF	50V	CERAMIC	C	
C299	QCF21HP-473	0.047MF	50V	CERAMIC		
C300	QCF21HP-473	0.047MF	50V	CERAMIC		
C301	QFLB1HJ-104	0.1MF	50V	MYLAR		
C302	QFLB1HJ-104	0.1MF	50V	MYLAR		
C305	QETB1HM-225	2.2MF	50V	ELECTRO		
C306	QETB1HM-225	2.2MF	50V	ELECTRO		
C307	QETB1HM-225	2.2MF	50V	ELECTRO		
C308	QETB1HM-225	2.2MF	50V	ELECTRO		
C311	QETB1EM-226	22MF	25V	ELECTRO		
C312	QETB1EM-226	22MF	25V	ELECTRO		
C313	QCSB1HJ-470	47PF	50V	CERAMIC		
C314	QCSB1HJ-470	47PF	50V	CERAMIC		
C315	QFLB1HJ-682	6800PF	50V	MYLAR		
C316	QFLB1HJ-682	6800PF	50V	MYLAR		
C317	QFLB1HJ-562	5600PF	50V	MYLAR		
C318	QFLB1HJ-562	5600PF	50V	MYLAR		
C319	QFLB1HJ-822	8200PF	50V	MYLAR		
C320	QFLB1HJ-822	8200PF	50V	MYLAR		
C321	QFLB1HJ-122	1200PF	50V	MYLAR		
C322	QFLB1HJ-122	1200PF	50V	MYLAR		
C323	QFLB1HJ-682	6800PF	50V	MYLAR		
C324	QFLB1HJ-682	6800PF	50V	MYLAR		
C325	QETB1CM-107	100MF	16V	ELECTRO		
C326	QETB1CM-107	100MF	16V	ELECTRO		
C335	QCS21HJ-101	100PF	50V	CERAMIC		
C336	QCS21HJ-101	100PF	50V	CERAMIC		
C337	QETB1EM-106	10MF	25V	ELECTRO		
C338	QETB1CM-476	47MF	16V	ELECTRO		
C339	QETB1HM-105	1MF	50V	ELECTRO		
C340	QETB1HM-105	1MF	50V	ELECTRO		
C341	QCS21HJ-561	560PF	50V	CERAMIC		
C342	QFP81HJ-822	8200PF	50V	POLY		
C343	QFLB1HJ-123	0.012MF	50V	MYLAR		
C344	QFLB1HJ-222	2200PF	50V	MYLAR		
C345	QFLB1HJ-222	2200PF	50V	MYLAR		
C346	QFLB1HJ-682	6800PF	50V	MYLAR		
C351	QETB1HM-106	10MF	50V	ELECTRO		
C355	QCF21HP-473	0.047MF	50V	CERAMIC		
C356	QCF21HP-473	0.047MF	50V	CERAMIC		
C373	QETB1HM-475	4.7MF	50V	ELECTRO		
C374	QETB1HM-475	4.7MF	50V	ELECTRO		
C375	QCB81HK-101	100PF	50V	CERAMIC	A	
C375	QCB81HK-101	100PF	50V	CERAMIC	B	
C375	QCB81HK-221	220PF	50V	CERAMIC	C	
C376	QCB81HK-101	100PF	50V	CERAMIC	A	
C376	QCB81HK-101	100PF	50V	CERAMIC	B	
C376	QCB81HK-221	220PF	50V	CERAMIC	C	
C381	QEKS1HM-105G	1MF	50V	ELECTRO		
C382	QEKS1HM-105G	1MF	50V	ELECTRO		
C383	QEKS1EM-475G	4.7MF	25V	ELECTRO		
C384	QEKS1EM-475G	4.7MF	25V	ELECTRO		</td

C A P A C I T O R S

ITEM	PART NUMBER	DESCRIPTION			AREA
C395	QEK51HM-105G	1MF	50V	ELECTRO	
C480	QETB1AM-107	100MF	10V	ELECTRO	
C481	QETB1AM-107	100MF	10V	ELECTRO	
C482	QFN81HJ-683	0.068MF	50V	MYLAR	
C483	QFN81HJ-683	0.068MF	50V	MYLAR	
C484	QETB1HM-474	0.47MF	50V	ELECTRO	
C485	QETB1HM-474	0.47MF	50V	ELECTRO	
C490	QCHB1EZ-223	0.022MF	25V	CERAMIC	
C491	QETB1CM-476	4.7MF	16V	ELECTRO	
C492	QETB1CM-476	4.7MF	16V	ELECTRO	
C493	QCSB1HJ-470	4.7PF	50V	CERAMIC	C
C494	QCSB1HJ-470	4.7PF	50V	CERAMIC	C
C581	QCBB1HK-561	560PF	50V	CERAMIC	
C583	QEK51HM-475	4.7MF	50V	ELECTRO	
C584	QEK51HM-475	4.7MF	50V	ELECTRO	
C589	QFLB1HJ-182	1800PF	50V	MYLAR	C
C590	QFLB1HJ-182	1800PF	50V	MYLAR	C
C595	QCHB1EZ-223	0.022MF	25V	CERAMIC	
C597	QCHB1EZ-223	0.022MF	25V	CERAMIC	
C598	QCHB1EZ-223	0.022MF	25V	CERAMIC	

△ : SAFETY: PARTS

R E S I S T O R S

ITEM	PART NUMBER	DESCRIPTION			AREA
R080	QRD167J-392	3.9K	1/6W	CARBON	
▲ R081	QRD14CJ-8R2S	8.2	1/4W	UNF.CARBON	
▲ R082	QRD14CJ-8R2S	8.2	1/4W	UNF.CARBON	
R083	QRD167J-471	470	1/6W	CARBON	
R085	QRD167J-103	10K	1/6W	CARBON	
R086	QRD167J-103	10K	1/6W	CARBON	
R088	QRD167J-103	10K	1/6W	CARBON	
R089	QRD167J-103	10K	1/6W	CARBON	
R090	QRD167J-471	470	1/6W	CARBON	
▲ R091	QRZ0077-4R7	4.7	1/4W	FUSIBLE	
▲ R092	QRD167J-102	1K	1/6W	CARBON	
▲ R094	QRZ0077-4R7	4.7	1/4W	FUSIBLE	
R095	QRD167J-332	3.3K	1/6W	CARBON	
R096	QRD167J-332	3.3K	1/6W	CARBON	
R097	QRD167J-682	6.8K	1/6W	CARBON	
R098	QRD167J-682	6.8K	1/6W	CARBON	
R207	QRD167J-100	10	1/6W	CARBON	
R208	QRD167J-100	10	1/6W	CARBON	
R209	QRD167J-105	1M	1/6W	CARBON	
R210	QRD167J-105	1M	1/6W	CARBON	
R225	QRD167J-470	47	1/6W	CARBON	
R226	QRD167J-470	47	1/6W	CARBON	
R227	QRD167J-334	330K	1/6W	CARBON	
R228	QRD167J-334	330K	1/6W	CARBON	
R229	QRD167J-432	4.3K	1/6W	CARBON	
R230	QRD167J-432	4.3K	1/6W	CARBON	
R231	QRD167J-272	2.7K	1/6W	CARBON	
R232	QRD167J-272	2.7K	1/6W	CARBON	
R233	QRD167J-272	2.7K	1/6W	CARBON	
R234	QRD167J-272	2.7K	1/6W	CARBON	
R235	QRD167J-223	22K	1/6W	CARBON	
R236	QRD167J-223	22K	1/6W	CARBON	
R237	QRD167J-752	7.5K	1/6W	CARBON	
R238	QRD167J-752	7.5K	1/6W	CARBON	
R239	QRD167J-105	1M	1/6W	CARBON	
R240	QRD167J-105	1M	1/6W	CARBON	
R241	QRD167J-105	1M	1/6W	CARBON	
R242	QRD167J-105	1M	1/6W	CARBON	
R243	QRD167J-471	470	1/6W	CARBON	
R244	QRD167J-472	4.7K	1/6W	CARBON	
R245	QRD167J-472	4.7K	1/6W	CARBON	
R247	QRD167J-102	1K	1/6W	CARBON	
R248	QRD167J-102	1K	1/6W	CARBON	
R254	QRD167J-103	10K	1/6W	CARBON	
R257	QRD167J-133	13K	1/6W	CARBON	
R258	QRD167J-123	12K	1/6W	CARBON	
R259	QRD167J-224	220K	1/6W	CARBON	
R260	QRD167J-394	390K	1/6W	CARBON	
R264	QRD167J-103	10K	1/6W	CARBON	
R267	QRD167J-133	13K	1/6W	CARBON	
R268	QRD167J-123	12K	1/6W	CARBON	
R269	QRD167J-224	220K	1/6W	CARBON	
R270	QRD167J-394	390K	1/6W	CARBON	
R271	QRD167J-103	10K	1/6W	CARBON	
R272	QRD167J-472	4.7K	1/6W	CARBON	
R273	QRD167J-472	4.7K	1/6W	CARBON	
R275	QRD167J-102	1K	1/6W	CARBON	
R276	QRD167J-102	1K	1/6W	CARBON	
R277	QRD167J-103	10K	1/6W	CARBON	
R278	QRD167J-103	10K	1/6W	CARBON	
R279	QRD167J-393	39K	1/6W	CARBON	
R280	QRD167J-393	39K	1/6W	CARBON	
R281	QRD167J-474	470K	1/6W	CARBON	
R282	QRD167J-474	470K	1/6W	CARBON	
R283	QRD167J-393	39K	1/6W	CARBON	
R284	QRD167J-393	39K	1/6W	CARBON	
R285	QRD167J-102	1K	1/6W	CARBON	
R286	QRD167J-102	1K	1/6W	CARBON	
R287	QRD167J-104	100K	1/6W	CARBON	
R288	QRD167J-104	100K	1/6W	CARBON	
R289	QRD167J-104	100K	1/6W	CARBON	
R290	QRD167J-104	100K	1/6W	CARBON	
R291	QRD167J-272	2.7K	1/6W	CARBON	
R292	QRD167J-272	2.7K	1/6W	CARBON	
R293	QRD167J-104	100K	1/6W	CARBON	
R294	QRD167J-104	100K	1/6W	CARBON	
R295	QRD167J-273	27K	1/6W	CARBON	
R296	QRD167J-273	27K	1/6W	CARBON	
R297	QRD167J-433	43K	1/6W	CARBON	
R298	QRD167J-433	43K	1/6W	CARBON	
R301	QRD167J-223	22K	1/6W	CARBON	
R302	QRD167J-223	22K	1/6W	CARBON	
R305	QRD167J-683	68K	1/6W	CARBON	
R306	QRD167J-683	68K	1/6W	CARBON	
R307	QRD167J-153	15K	1/6W	CARBON	
R308	QRD167J-153	15K	1/6W	CARBON	
R309	QRD167J-223	22K	1/6W	CARBON	
R310	QRD167J-223	22K	1/6W	CARBON	
R313	QRD167J-242	2.4K	1/6W	CARBON	
R314	QRD167J-242	2.4K	1/6W	CARBON	
R315	QRD167J-101	100	1/6W	CARBON	
R316	QRD167J-101	100	1/6W	CARBON	
R317	QRD167J-391	390	1/6W	CARBON	
R318	QRD167J-391	390	1/6W	CARBON	
R319	QRD167J-152	1.5K	1/6W	CARBON	

△ : SAFETY: PARTS

RESISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
R320	QRD167J-152	1.5K	1/6W CARBON	
R321	QRD167J-432	4.3K	1/6W CARBON	
R322	QRD167J-432	4.3K	1/6W CARBON	
R323	QRD167J-152	1.5K	1/6W CARBON	
R324	QRD167J-152	1.5K	1/6W CARBON	
R325	QRD167J-104	100K	1/6W CARBON	
R326	QRD167J-104	100K	1/6W CARBON	
R327	QRD167J-152	1.5K	1/6W CARBON	
R328	QRD167J-152	1.5K	1/6W CARBON	
R329	QRD167J-392	3.9K	1/6W CARBON	
R330	QRD167J-392	3.9K	1/6W CARBON	
R331	QRD161J-221	220	1/6W CARBON	
R332	QRD161J-221	220	1/6W CARBON	
R337	QRD167J-473	47K	1/6W CARBON	
R338	QRD167J-473	47K	1/6W CARBON	
△	R339 QRD14CJ-5R6S	5.6	1/4W UNF. CARBON	
R340	QRD167J-472	4.7K	1/6W CARBON	
R341	QRD167J-104	100K	1/6W CARBON	
R342	QRD167J-332	3.3K	1/6W CARBON	
R343	QRD167J-201	200	1/6W CARBON	
△	R344 QRD167J-201	200	1/6W CARBON	
R345	QRZ0077-100	10	1/4W FUSIBLE	
R351	QRD167J-203	20K	1/6W CARBON	
R352	QRD167J-203	20K	1/6W CARBON	
R353	QRD167J-392	3.9K	1/6W CARBON	
R354	QRD167J-392	3.9K	1/6W CARBON	
R355	QRD167J-561	560	1/6W CARBON	
R356	QRD167J-561	560	1/6W CARBON	
R357	QRD167J-223	22K	1/6W CARBON	
R358	QRD167J-223	22K	1/6W CARBON	
R359	QRD167J-392	3.9K	1/6W CARBON	
R360	QRD167J-392	3.9K	1/6W CARBON	
R361	QRD167J-473	47K	1/6W CARBON	
R362	QRD167J-473	47K	1/6W CARBON	
R363	QRD167J-153	15K	1/6W CARBON	
R364	QRD167J-153	15K	1/6W CARBON	
R365	QRD167J-472	4.7K	1/6W CARBON	
R366	QRD167J-472	4.7K	1/6W CARBON	
R371	QRD167J-103	10K	1/6W CARBON	
R372	QRD167J-103	10K	1/6W CARBON	
R373	QRD167J-243	24K	1/6W CARBON	
R374	QRD167J-102	1K	1/6W CARBON	
R375	QRD167J-222	2.2K	1/6W CARBON	
R376	QRD167J-222	2.2K	1/6W CARBON	
△	R381 QRD167J-153	15K	1/6W CARBON	
R382	QRD167J-153	15K	1/6W CARBON	
R383	QRD167J-822	8.2K	1/6W CARBON	
R384	QRD167J-822	8.2K	1/6W CARBON	
△	R385 QRZ0077-220	22	1/4W FUSIBLE	
R386	QRD167J-183	18K	1/6W CARBON	
R387	QRD167J-103	10K	1/6W CARBON	
R388	QRD167J-562	5.6K	1/6W CARBON	A
R389	QRD167J-562	5.6K	1/6W CARBON	B
R389	QRD167J-392	3.9K	1/6W CARBON	C
R390	QRD167J-562	5.6K	1/6W CARBON	A
R390	QRD167J-562	5.6K	1/6W CARBON	B
R390	QRD167J-392	3.9K	1/6W CARBON	C
R391	QRD167J-103	10K	1/6W CARBON	
R393	QRD167J-513	51K	1/6W CARBON	
R394	QRD167J-513	51K	1/6W CARBON	
R395	QRD167J-103	10K	1/6W CARBON	
R396	QRD167J-103	10K	1/6W CARBON	
R467	QRD167J-222	2.2K	1/6W CARBON	
R468	QRD167J-222	2.2K	1/6W CARBON	
R480	QRD167J-331	330	1/6W CARBON	
R481	QRD167J-331	330	1/6W CARBON	
R482	QRD167J-474	470K	1/6W CARBON	
R483	QRD167J-474	470K	1/6W CARBON	
R490	QRD167J-472	4.7K	1/6W CARBON	
R491	QRD167J-472	4.7K	1/6W CARBON	
R492	QRD167J-472	4.7K	1/6W CARBON	
R496	QRD167J-472	4.7K	1/6W CARBON	
R497	QRD167J-472	4.7K	1/6W CARBON	
R498	QRD167J-822	8.2K	1/6W CARBON	
R499	QRD167J-822	8.2K	1/6W CARBON	
R581	QRD167J-102	1K	1/6W CARBON	
R582	QRD167J-102	1K	1/6W CARBON	
R583	QRD167J-103	10K	1/6W CARBON	
R584	QRD167J-103	10K	1/6W CARBON	
R585	QRD167J-103	10K	1/6W CARBON	
R586	QRD167J-103	10K	1/6W CARBON	
R587	QRD167J-822	8.2K	1/6W CARBON	
R588	QRD167J-822	8.2K	1/6W CARBON	
R589	QRD167J-472	4.7K	1/6W CARBON	
R590	QRD167J-472	4.7K	1/6W CARBON	
R591	QRD161J-221	220	1/6W CARBON	
R999	QRD167J-103	10K	1/6W CARBON	
VR203	QVPA601-204A	200K	VARIABLE	
VR204	QVPA601-204A	200K	VARIABLE	
VR205	QVPA601-204A	200K	VARIABLE	
VR206	QVPA601-204A	200K	VARIABLE	
VR221	QVPA601-201A	200	VARIABLE	
VR222	QVPA601-201A	200	VARIABLE	
VR223	QVPA601-201A	200	VARIABLE	
VR224	QVPA601-201A	200	VARIABLE	

△ : SAFETY PARTS

RESISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	VR255	QVPA601-502A	5K VARIABLE	
	VR256	QVPA601-502A	5K VARIABLE	
	VR265	QVPA601-502A	5K VARIABLE	
	VR266	QVPA601-502A	5K VARIABLE	
	VR335	QVPA601-503A	50K VARIABLE	
	VR336	QVPA601-503A	50K VARIABLE	
	VR367	QVPA601-503A	50K VARIABLE	
	VR368	QVPA601-503A	50K VARIABLE	
	VR490	QVDB918-E15H	100K VARIABLE	

△ : SAFETY PARTS

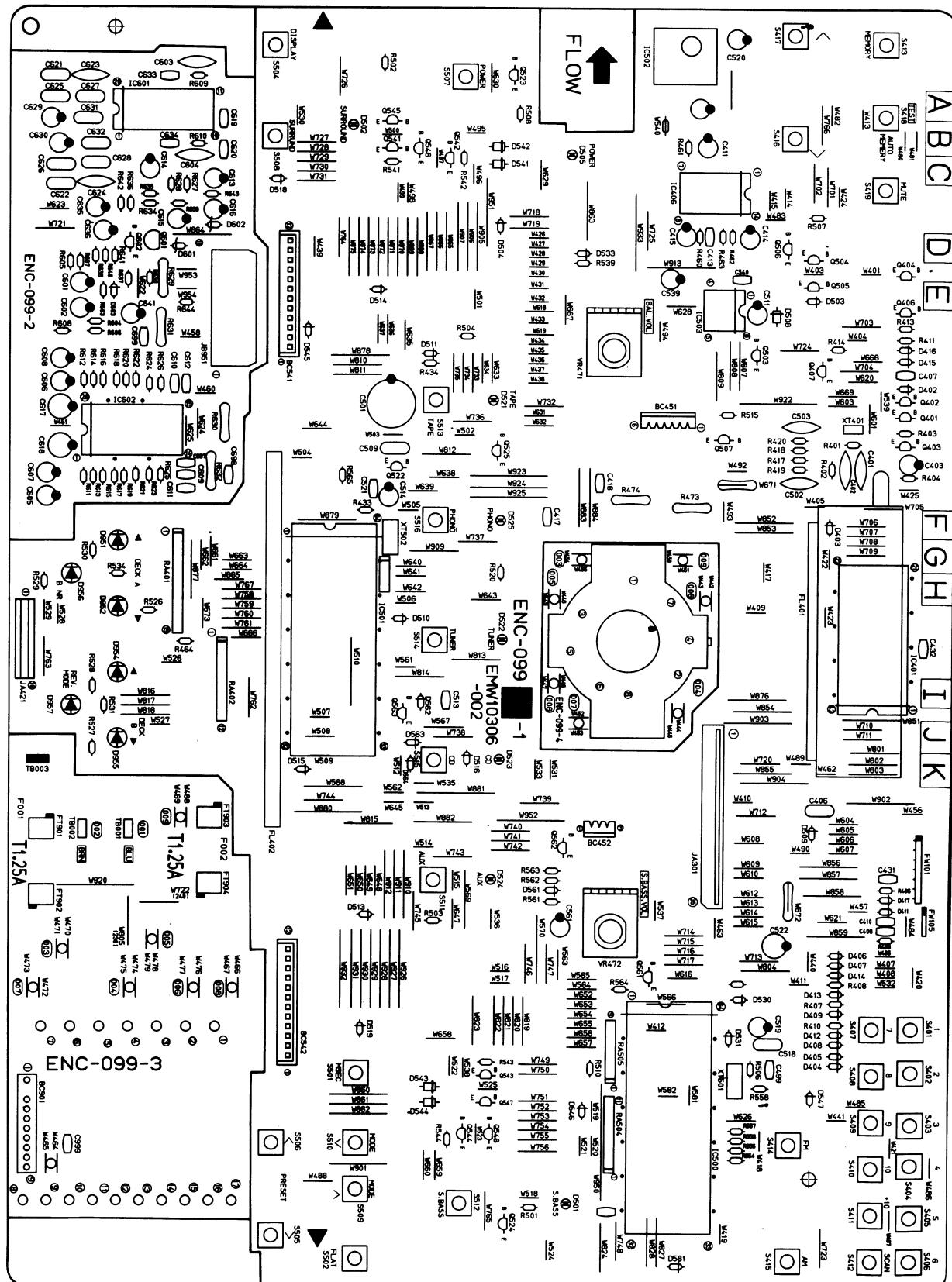
OTHERS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
△	J001	EMB90YV-401A	SPEAKER TERMINAL	
	J004	QMA1221-009	DC JACK	
	J015	EMV7122-005	CONNECTOR(5PIN)	
	J017	QMS6312-024	HEADPHONE JACK	
	J021	EMV5109-003A	PLUG ASSY(3PIN)	
	J041	EMV5109-005A	PLUG ASSY	
	J251	EMV7122-004	CONNECTOR(4PIN)	
	J261	EMV7122-004	CONNECTOR(4PIN)	
	J281	EMN007V-414AJ2	4P PIN JACK	
	J451	EMV5109-006A	PLUG ASSY(6PIN)	
	J452	EMV5109-003A	PLUG ASSY(3PIN)	
	J901	EMV5133-009K	PLUG ASSY(9PIN)	
	K051	ENZ8101-011	FERRITE BEADS	C
	K052	ENZ8101-011	FERRITE BEADS	C
	K281	ENZ8101-011	FERRITE BEADS	C
	L001	EQL0001-R45	INDUCTOR	
	L002	EQL0001-R45	INDUCTOR	
	L003	EQL4007-101	INDUCTOR	
	L221	EQL2106-223	INDUCTOR	
	L222	EQL2106-223	INDUCTOR	
	L223	EQL4007-101	INDUCTOR	
	L224	EQL4007-101	INDUCTOR	
	L301	EQL2126-562	INDUCTOR	
	L302	EQL2126-562	INDUCTOR	
	L335	ENZ6002-010	OSCILLATOR COIL	
	P201	EMV5133-003K	PLUG ASSY(3PIN)	
	P202	EMV5133-005K	PLUG ASSY(5PIN)	
	S335	QSS7A12-E01	SLIDE SWITCH(BEATCUT)	
	S951	ESP0001-023M	TACT SWITCH (A◀)	
	S952	ESP0001-023M	TACT SWITCH (A◀)	
	S953	ESP0001-023M	TACT SWITCH(A■)	
	S954	ESP0001-023M	TACT SWITCH(A▶)	
	S955	ESP0001-023M	TACT SWITCH(A▶)	
	S956	ESP0001-023M	TACT SWITCH(A▶)	
	S957	ESP0001-023M	TACT SWITCH(B○)	
	S958	ESP0001-023M	TACT SWITCH(B■)	
	S959	ESP0001-023M	TACT SWITCH(B◀)	
	S960	ESP0001-023M	TACT SWITCH(B◀)	
	S961	ESP0001-023M	TACT SWITCH(B■)	
	S962	ESP0001-023M	TACT SWITCH(B▶)	
	S963	ESP0001-023M	TACT SWITCH(B▶)	
	S964	ESP0001-023M	TACT SWITCH(NR)	
	S965	ESP0001-023M	TACT SWITCH(CCD.REC)	
	S966	ESP0001-023M	TACT SWITCH(REV MODE)	
	BC021	EWS293-0112	SOCKET WIRE(3PIN)	
	BC041	EWS295-0720	SOCKET WIRE(5PIN)	
	BK201	E406519-001	P.W. BOARD BRACKET	
	EP001	E70859-001	EARTH PLATE	
	FS391	E3400-431	FELT SPACER	
	FT051	VM20087-001	FUSE CLIP	
	FT052	VM20087-001	FUSE CLIP	
	FT053	VM20087-001	FUSE CLIP	
	FT054	VM20087-001	FUSE CLIP	
	FW015	EWR358-25LST	FLAT WIRE(5PIN)	
	JA103	EMV5125-005	PLUG ASSY(5PIN)	
	JA951	EMV5140-011	PLUG ASSY(11PIN)	
	JB109	EMV7127-013	CONNECTOR(13PIN)	
	JB301	EMV7123-035	CONNECTOR(35PIN)	
	JB421	EMV7124-010	CONNECTOR(10PIN)	
	RY001	ESKD7D24-2120	RELAY	

△ : SAFETY PARTS

■ENC-099 □ Display & Control PC Board Ass'y

Note : ENC-099 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENC-099 [A]	Taiwan, Universal Type
ENC-099 [B]	Australia
ENC-099 [D]	Scandinavia Continental Europe
ENC-099 [F]	Italy

DIODES

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	D519	ISS133	SILICON ROHM	
	D521	SLR-34DC3F	L.E.D. ROHM	
	D522	SLR-34DC3F	L.E.D. ROHM	
	D523	SLR-34DC3F	L.E.D. ROHM	
	D524	SLR-34DC3F	L.E.D. ROHM	
	D525	SLR-34DC3F	L.E.D. ROHM	
	D530	ISS133	SILICON ROHM	
	D531	ISS133	SILICON ROHM	
	D533	ISS133	SILICON ROHM	
	D541	1SR139-200	SILICON ROHM	
	D542	1SR139-200	SILICON ROHM	
	D543	1SR139-200	SILICON ROHM	
	D544	1SR139-200	SILICON ROHM	
	D545	ISS133	SILICON ROHM	
	D546	ISS133	SILICON ROHM	
	D547	ISS133	SILICON ROHM	
	D581	ISS133	SILICON ROHM	
	D601	MT26.8JC	ZENER ROHM	
	D602	MT26.8JC	ZENER ROHM	
	D603	ISS133	SILICON ROHM	
	D951	SLR-34MC50F124	L.E.D. ROHM	
	D952	SLR-34MC50F124	L.E.D. ROHM	
	D954	SLR-34MC50F124	L.E.D. ROHM	
	D955	SLR-34MC50F124	L.E.D. ROHM	
	D956	SLR-34MC50F124	L.E.D. ROHM	
	D957	SLR-34DC50F124	L.E.D. ROHM	

△ : SAFETY PARTS

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	C401	QCS21HJ-101	100PF 50V CERAMIC	
	C402	QCS21HJ-101	100PF 50V CERAMIC	
	C403	QEKS1HM-105G	1MF 50V ELECTRO	
	C406	QCZ0202-155	1.5MF 25V CERAMIC	
	C407	QCVB1CM-103	0.01MF 16V CERAMIC	
	C408	QCBB1HK-221	220PF 50V CERAMIC	
	C410	QCBB1HK-221	220PF 50V CERAMIC	A
	C411	QER51CM-476	47MF 16V ELECTRO	
	C413	QGBG1HK-102	1000PF 50V CERAMIC	
	C414	QEKS1AM-227	220MF 10V ELECTRO	
	C415	QEKS1AM-227	220MF 10V ELECTRO	
	C417	QCGB1HK-102	1000PF 50V CERAMIC	
	C418	QCGB1HK-102	1000PF 50V CERAMIC	
	C419	QETB1HM-226	22MF 50V ELECTRO	
	C431	QCBB1HK-101	100PF 50V CERAMIC	
	C432	QCBB1HK-101	100PF 50V CERAMIC	
	C499	QCVB1CM-103	0.01MF 16V CERAMIC	
	C501	QETBOJM-108	1000MF 6.3V ELECTRO	
	C502	QCS21HJ-121	120PF 50V CERAMIC	
	C503	QCS21HJ-121	120PF 50V CERAMIC	
	C509	QCZ0202-155	1.5MF 25V CERAMIC	
	C511	QEKS0JM-476	47MF 6.3V ELECTRO	
	C513	QCVB1CM-103	0.01MF 16V CERAMIC	
	C514	QETB1HM-225	2.2MF 50V ELECTRO	
	C518	QCZ0202-155	1.5MF 25V CERAMIC	
	C519	QEKS1CM-226	22MF 16V ELECTRO	
	C520	QEKS0JM-476	47MF 6.3V ELECTRO	
	C521	QCVB1CM-103	0.01MF 16V CERAMIC	
	C522	QEKS0JM-476	47MF 6.3V ELECTRO	
	C539	QEKS1HM-474G	0.47MF 50V ELECTRO	
	C540	QCBB1HK-101	100PF 50V CERAMIC	
	C601	QETB1HM-475	4.7MF 50V ELECTRO	
	C602	QETB1HM-475	4.7MF 50V ELECTRO	
	C603	QCS21HJ-101	100PF 50V CERAMIC	
	C604	QCS21HJ-101	100PF 50V CERAMIC	
	C605	QETB1EM-476	4.7MF 25V ELECTRO	
	C606	QETB1EM-476	4.7MF 25V ELECTRO	
	C607	QETB1EM-476	4.7MF 25V ELECTRO	
	C608	QETB1EM-476	4.7MF 25V ELECTRO	
	C609	QCSB1HJ-100	10PF 50V CERAMIC	
	C610	QCSB1HJ-100	10PF 50V CERAMIC	
	C611	QCSB1HJ-100	10PF 50V CERAMIC	
	C612	QCSB1HJ-100	10PF 50V CERAMIC	
	C613	QETB1HM-475	4.7MF 50V ELECTRO	
	C614	QETB1HM-475	4.7MF 50V ELECTRO	
	C615	QETB1EM-226	22MF 25V ELECTRO	
	C616	QETB1EM-226	22MF 25V ELECTRO	
	C617	QETB1HM-476	4.7MF 16V ELECTRO	
	C618	QETB1CM-476	4.7MF 16V ELECTRO	
	C619	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C620	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C621	QFLB1HJ-272	2700PF 50V MYLAR	
	C622	QFLB1HJ-272	2700PF 50V MYLAR	
	C623	QCS21HJ-471	470PF 50V CERAMIC	
	C624	QCS21HJ-471	470PF 50V CERAMIC	
	C625	QFV81HJ-473	0.047MF 50V T.FILM	
	C626	QFV81HJ-473	0.047MF 50V T.FILM	
	C627	QFLB1HJ-822	8200PF 50V MYLAR	
	C628	QFLB1HJ-822	8200PF 50V MYLAR	
	C629	QER51HM-684	0.68MF 50V ELECTRO	
	C630	QER51HM-684	0.68MF 50V ELECTRO	

△ : SAFETY PARTS

TRANSISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q401	DTC144ES	SILICON ROHM	
	Q402	DTC114YS	SILICON ROHM	
	Q403	DTA144ES	SILICON ROHM	
	Q404	DTC114YS	SILICON ROHM	
	Q406	DTC144ES	SILICON ROHM	
	Q407	2SC1740S(R,S)	SILICON ROHM	
	Q503	DTC114YS	SILICON ROHM	
	Q504	DTC144ES	SILICON ROHM	
	Q505	DTC144ES	SILICON ROHM	
	Q506	DTC144ES	SILICON ROHM	
	Q507	DTA114ES	SILICON ROHM	
	Q522	DTC114YS	SILICON ROHM	
	Q523	DTA114ES	SILICON ROHM	
	Q524	DTA114ES	SILICON ROHM	
	Q525	DTA114ES	SILICON ROHM	
	Q541	2SC3377(Q,R)	SILICON ROHM	
	Q542	2SC3377(Q,R)	SILICON ROHM	
	Q543	2SC3377(Q,R)	SILICON ROHM	
	Q544	2SC3377(Q,R)	SILICON ROHM	
	Q545	DTC114YS	SILICON ROHM	
	Q546	DTC114YS	SILICON ROHM	
	Q547	DTC114YS	SILICON ROHM	
	Q548	DTC114YS	SILICON ROHM	
	Q601	2SK301(P,Q)	F.E.T. MATSUSHITA	
	Q602	2SC1740S(R,S)	SILICON ROHM	

△ : SAFETY PARTS

I. C. S.

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC401	LC6514B-4245	I.C. SANYO	
	IC406	XR1097CP	I.C. EXAR JAPAN	
	IC500	HD614081SD59	I.C.	
	IC501	MN171202JHD	I.C. MATSUSHITA	
	IC502	SPS-420-1	I.C. SANYO	
	IC503	LB1639-CV	I.C. SANYO	
	IC601	M5243P12	I.C. MITSUBISHI	
	IC602	TC9163N	I.C. TOSHIBA	

△ : SAFETY PARTS

DIODES

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	D402	ISS133	SILICON ROHM	
	D403	ISS133	SILICON ROHM	
	D404	ISS133	SILICON ROHM	
	D405	ISS133	SILICON ROHM	
	D406	ISS133	SILICON ROHM	
	D407	ISS133	SILICON ROHM	
	D408	ISS133	SILICON ROHM	
	D409	ISS133	SILICON ROHM	A
	D411	ISS133	SILICON ROHM	
	D412	ISS133	SILICON ROHM	D
	D413	ISS133	SILICON ROHM	F
	D414	ISS133	SILICON ROHM	
	D415	ISS133	SILICON ROHM	
	D416	ISS133	SILICON ROHM	
	D417	MTZ5.6JC	ZENER ROHM	
	D501	SLR-34DC3F	L.E.D. ROHM	
	D502	SLR-34DC3F	L.E.D. ROHM	
	D503	ISS133	SILICON ROHM	
	D504	ISS133	SILICON ROHM	
	D505	SLR-34VC3F	L.E.D. ROHM	
	D508	1SR139-200	SILICON ROHM	
	D509	ISS133	SILICON ROHM	
	D510	ISS133	SILICON ROHM	
	D511	ISS133	SILICON ROHM	
	D513	ISS133	SILICON ROHM	
	D514	ISS133	SILICON ROHM	
	D515	ISS133	SILICON ROHM	
	D516	ISS133	SILICON ROHM	
	D518	ISS133	SILICON ROHM	

△ : SAFETY PARTS

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
C631	QFV81HJ-154	0.15MF	50V T.FILM	
C632	QFV81HJ-154	0.15MF	50V T.FILM	
C633	QCSB1HJ-470	47PF	50V CERAMIC	
C634	QCSB1HJ-470	47PF	50V CERAMIC	
C635	QETB1HM-105	1MF	50V ELECTRO	
C636	QETB1HM-474	0.47MF	50V ELECTRO	
C637	QCBB1HK-561	560PF	50V CERAMIC	
C641	QETB1HM-105	1MF	50V ELECTRO	
C698	QCGB1HK-102	1000PF	50V CERAMIC	
C699	QCGB1HK-102	1000PF	50V CERAMIC	

△ : SAFETY PARTS

RESISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
R631	QRZ0077-680	68	1/4W FUSIBLE	
R632	QRZ0077-680	68	1/4W FUSIBLE	
R633	QRD167J-224	220K	1/6W CARBON	
R634	QRD167J-224	220K	1/6W CARBON	
R635	QRD167J-224	220K	1/6W CARBON	
R636	QRD167J-562	5.6K	1/6W CARBON	
R637	QRD167J-562	5.6K	1/6W CARBON	
R638	QRD167J-471	470	1/6W CARBON	
R639	QRD167J-473	47K	1/6W CARBON	
R640	QRD167J-473	47K	1/6W CARBON	
R641	QRD167J-103	10K	1/6W CARBON	
R642	QRD167J-562	5.6K	1/6W CARBON	
R643	QRD167J-102	1K	1/6W CARBON	
R644	QRD167J-102	1K	1/6W CARBON	
RA403	QR049J-473	47K	1/10W R.NETWORK	
RA504	QRB109J-223	22K	1/10W R.NETWORK	
RA505	QRB089J-223	22K	1/10W R.NETWORK	
VR471	QVJA84W-E15C	100K	VARIABLE	
VR472	QVJB84A-E15C	100K	VARIABLE	

RESISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
R401	QRD167J-105	1M	1/6W CARBON	
R402	QRD167J-152	1.5K	1/6W CARBON	
R403	QRD167J-392	3.9K	1/6W CARBON	
R404	QRD167J-223	22K	1/6W CARBON	
R406	QRD167J-472	4.7K	1/6W CARBON	
R407	QRD167J-472	4.7K	1/6W CARBON	
R408	QRD167J-472	4.7K	1/6W CARBON	
R409	QRD167J-472	4.7K	1/6W CARBON	
R410	QRD167J-472	4.7K	1/6W CARBON	
R411	QRD167J-104	100K	1/6W CARBON	
R413	QRD167J-472	4.7K	1/6W CARBON	
R414	QRD167J-472	4.7K	1/6W CARBON	
R417	QRD167J-510	51	1/6W CARBON	
R418	QRD167J-470	47	1/6W CARBON	
R419	QRD167J-510	51	1/6W CARBON	
R420	QRD167J-470	47	1/6W CARBON	
R423	QRD167J-103	10K	1/6W CARBON	
R434	QRD167J-104	100K	1/6W CARBON	
R460	QRD167J-223	22K	1/6W CARBON	
R461	QRD167J-223	22K	1/6W CARBON	
R462	QRD167J-563	56K	1/6W CARBON	
R463	QRD167J-152	1.5K	1/6W CARBON	
R464	QRD167J-104	100K	1/6W CARBON	
R473	QRD14CJ-8R2S	8.2	1/4W UNF.CARBON	
R474	QRD14CJ-100S	10	1/4W UNF.CARBON	
R501	QRD167J-271	270	1/6W CARBON	
R502	QRD167J-271	270	1/6W CARBON	
R503	QRD167J-271	270	1/6W CARBON	
R504	QRD167J-271	270	1/6W CARBON	
R506	QRD167J-105	1M	1/6W CARBON	
R507	QRD167J-103	10K	1/6W CARBON	
R508	QRD167J-271	270	1/6W CARBON	
R510	QRD167J-223	22K	1/6W CARBON	
R515	QRD167J-473	47K	1/6W CARBON	
R520	QRD167J-271	270	1/6W CARBON	
R526	QRD167J-181	180	1/6W CARBON	
R527	QRD167J-181	180	1/6W CARBON	
R528	QRD167J-181	180	1/6W CARBON	
R529	QRD167J-391	390	1/6W CARBON	
R530	QRD167J-181	180	1/6W CARBON	
R531	QRD167J-181	180	1/6W CARBON	
R534	QRD167J-181	180	1/6W CARBON	
R539	QRD167J-105	1M	1/6W CARBON	
R541	QRD167J-102	1K	1/6W CARBON	
R542	QRD167J-102	1K	1/6W CARBON	
R543	QRD167J-102	1K	1/6W CARBON	
R544	QRD167J-102	1K	1/6W CARBON	
R554	QRD167J-223	22K	1/6W CARBON	
R555	QRD167J-223	22K	1/6W CARBON	
R556	QRD167J-223	22K	1/6W CARBON	
R557	QRD167J-223	22K	1/6W CARBON	
R558	QRD167J-223	22K	1/6W CARBON	
R603	QRD167J-104	100K	1/6W CARBON	
R604	QRD167J-104	100K	1/6W CARBON	
R605	QRD167J-104	100K	1/6W CARBON	
R606	QRD167J-104	100K	1/6W CARBON	
R607	QRD167J-103	10K	1/6W CARBON	
R608	QRD167J-103	10K	1/6W CARBON	
R609	QRD167J-103	10K	1/6W CARBON	
R610	QRD167J-103	10K	1/6W CARBON	
R611	QRD167J-303	30K	1/6W CARBON	
R612	QRD167J-303	30K	1/6W CARBON	
R613	QRD167J-123	12K	1/6W CARBON	
R614	QRD167J-123	12K	1/6W CARBON	
R615	QRD167J-472	4.7K	1/6W CARBON	
R616	QRD167J-472	4.7K	1/6W CARBON	
R617	QRD167J-183	18K	1/6W CARBON	
R618	QRD167J-183	18K	1/6W CARBON	
R619	QRD167J-912	9.1K	1/6W CARBON	
R620	QRD167J-912	9.1K	1/6W CARBON	
R621	QRD167J-243	24K	1/6W CARBON	
R622	QRD167J-243	24K	1/6W CARBON	
R623	QRD167J-562	5.6K	1/6W CARBON	
R624	QRD167J-562	5.6K	1/6W CARBON	
R625	QRD167J-333	33K	1/6W CARBON	
R626	QRD167J-333	33K	1/6W CARBON	
R627	QRD167J-104	100K	1/6W CARBON	
R628	QRD167J-104	100K	1/6W CARBON	
R629	QRZ0077-331	330	1/4W FUSIBLE	
R630	QRZ0077-331	330	1/4W FUSIBLE	

△ : SAFETY PARTS

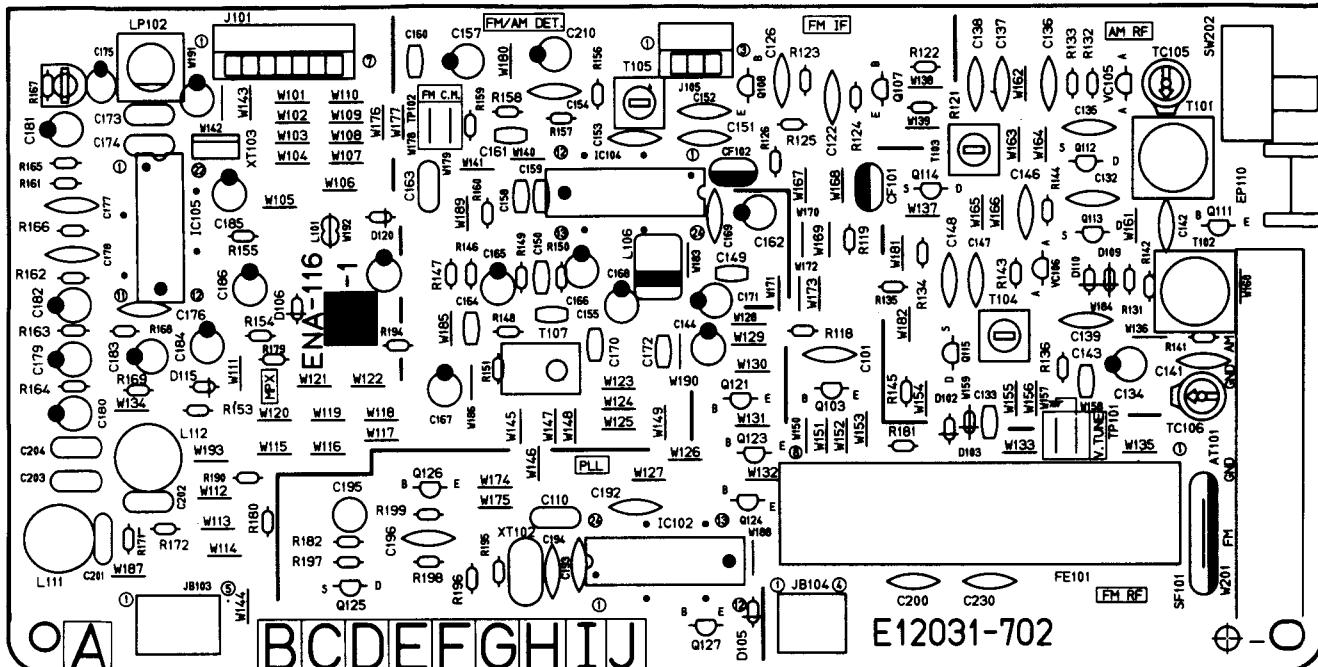
OTHERS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
		E3400-431	FELT SPACER	
		E406779-001	SPACER	A
		E67132-T2R5	FUSE LABEL	A
S401		ESP0001-023M	TACT SWITCH(1)	
S402		ESP0001-023M	TACT SWITCH(2)	
S403		ESP0001-023M	TACT SWITCH(3)	
S404		ESP0001-023M	TACT SWITCH(4)	
S405		ESP0001-023M	TACT SWITCH(5)	
S406		ESP0001-023M	TACT SWITCH(6)	
S407		ESP0001-023M	TACT SWITCH(7)	
S408		ESP0001-023M	TACT SWITCH(8)	
S409		ESP0001-023M	TACT SWITCH(9)	
S410		ESP0001-023M	TACT SWITCH(10)	
S411		ESP0001-023M	TACT SWITCH(+10)	
S412		ESP0001-023M	TACT SWITCH(PRESET SCAN)	
S413		ESP0001-023M	TACT SWITCH(MEMORY)	
S414		ESP0001-023M	TACT SWITCH(FM)	
S415		ESP0001-023M	TACT SWITCH(AM)	
S416		ESP0001-023M	TACT SWITCH(UP)	
S417		ESP0001-023M	TACT SWITCH(DOWN)	
S418		ESP0001-023M	TACT SWITCH(AUTO MEMORY)	
S419		ESP0001-023M	TACT SWITCH(FM MODE)	
S501		ESP0001-023M	TACT SWITCH(MSEC)	
S502		ESP0001-023M	TACT SWITCH(FLAT)	
S504		ESP0001-023M	TACT SWITCH(DISPLAY)	
S505		ESP0001-023M	TACT SWITCH(PATTERN ▶)	
S506		ESP0001-023M	TACT SWITCH(PATTERN ◀)	
S507		ESP0001-023M	TACT SWITCH(POWER)	
S508		ESP0001-023M	TACT SWITCH(SURROUND)	
S509		ESP0001-023M	TACT SWITCH(MODE ▲)	
S510		ESP0001-023M	TACT SWITCH(MODE ▼)	
S511		ESP0001-023M	TACT SWITCH(AUX)	
S512		ESP0001-023M	TACT SWITCH(SUPERBASS)	
S513		ESP0001-023M	TACT SWITCH(TAPE ◀)	
S514		ESP0001-023M	TACT SWITCH(TUNER ▶)	
S515		ESP0001-023M	TACT SWITCH(CD)	
S516		ESP0001-023M	TACT SWITCH(PHONO)	
BC451		EWS296-0912	SOCKET WIRE(3PIN)	
BC452		EWS293-0112	SOCKET WIRE	
BC541		EWS20B-006	SOCKET WIRE(12PIN)	
BC542		EWS20B-007	SOCKET WIRE(12PIN)	
BC901		EWS249-009	SOCKET WIRE	
BK401		E75817-221SS	FL HOLDER	
BK402		E306951-221SS	FL DISPLAY HOLDER	
FL401		ELU0001-118	FL TUBE	
FL402		ELU0001-146	FL TUBE	
FS401		E3400-449	FELT SPACER	
FS402		E3400-449	FELT SPACER	
FT901		VMZ0087-001	FUSE CLIP	
FT902		VMZ0087-001	FUSE CLIP	
FT903		VMZ0087-001	FUSE CLIP	A
FT904		VMZ0087-001	FUSE CLIP	A
FW101		EWR37B-25LST	FLAT WIRE(7PIN)	
FW105		EWR33B-30LST	FLAT WIRE(3PIN)	
J4301		EMV7123-035	CONNECTOR(3PIN)	
J421		EMV5123-A074	PLUG ASSY(10PIN)	
JB951		EMV7140-L11R	CONNECTOR(11PIN)	
RS001		QSR0085-018	VOLTAGE SELECTOR	A
TB001		E65508-002	TAB	
TB002		E65508-002	TAB	
TB003		EMZ4001-001	TAB	
XT401		ECX0001-000KS	RESONATOR	
XT501		ECX0004-194KM	RESONATOR	
XT502		ECX0060-000EM	RESONATOR	

△ : SAFETY PARTS

■ ENA-116 □ Tuner PC Board Ass'y (Australia, Taiwan, Universal Type)

Note : ENA-116 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENA-116 [G]	Taiwan, Universal Type
ENA-116 [H]	Australia

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	C101	QCF21HP-223	0.022MF 50V CERAMIC	
	C110	QCZ0202-155	1.5MF 25V CERAMIC	
	C122	QCF21HP-223	0.022MF 50V CERAMIC	
	C126	QCF21HP-223	0.022MF 50V CERAMIC	
	C132	QCS21HJ-561	560PF 50V CERAMIC	
	C133	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C134	QETB1EM-106	10MF 25V ELECTRO	
	C135	QCC21EM-223	0.022MF 25V CERAMIC	
	C136	QCT26CH-180	18PF 50V CERAMIC	
	C137	QCT26CH-221	220PF 50V CERAMIC	
	C138	QCT26CH-241	240PF 50V CERAMIC	
	C149	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C150	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C151	QCF21HP-223	0.022MF 50V CERAMIC	
	C152	QCF21HP-223	0.022MF 50V CERAMIC	
	C153	QCC21EM-223	0.022MF 25V CERAMIC	
	C154	QCF21HP-223	0.022MF 50V CERAMIC	
	C155	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C157	QETB1HM-474	0.47MF 50V ELECTRO	
	C158	QCB81HK-101	100PF 50V CERAMIC	
	C159	QCB81HK-101	100PF 50V CERAMIC	
	C160	QCB81HK-221	220PF 50V CERAMIC	
	C161	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C162	QETB1EM-106	10MF 25V ELECTRO	
	C163	QCY21HK-102	1000PF 50V CERAMIC	
	C164	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C165	QETB1HM-474	0.47MF 50V ELECTRO	
	C166	QETB1HM-225	2.2MF 50V ELECTRO	
	C167	QETB1HM-225	2.2MF 50V ELECTRO	
	C168	QETB1HM-475	4.7MF 50V ELECTRO	
	C169	QCF21HP-223	0.022MF 50V CERAMIC	
	C170	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C171	QETB1EM-106	10MF 25V ELECTRO	
	C172	QCVB1CM-103	0.01MF 16V CERAMIC	
	C173	QFLB1HJ-393	0.039MF 50V MYLAR	G
	C173	QFLB1HJ-223	0.022MF 50V MYLAR	H
	C174	QFLB1HJ-473	0.047MF 50V MYLAR	
	C175	QETB1EM-106	10MF 25V ELECTRO	
	C176	QETB1HM-102	1000PF 50V CERAMIC	
	C177	QCS21HJ-821	820PF 50V CERAMIC	
	C177	QCS21HJ-561	560PF 50V CERAMIC	
	C178	QCS21HJ-821	820PF 50V CERAMIC	
	C178	QCS21HJ-561	560PF 50V CERAMIC	
	C179	QETB1HM-225	2.2MF 50V ELECTRO	
	C180	QETB1HM-225	2.2MF 50V ELECTRO	
	C181	QETB1EM-106	10MF 25V ELECTRO	
	C182	QETB1HM-225	2.2MF 50V ELECTRO	
	C183	QETB1HM-105	1MF 50V ELECTRO	
	C184	QETB1HM-105	1MF 50V ELECTRO	
	C185	QETB1HM-225	2.2MF 50V ELECTRO	

△ : SAFETY PARTS

I. C. S.

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC102	LC7218	I.C. SANYO	
	IC104	LA1266A	I.C. SANYO	
	IC105	LA3401	I.C. SANYO	

△ : SAFETY PARTS

DIODES

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	D105	ISS133	SILICON ROHM	
	D106	ISS133	SILICON ROHM	
	D115	ISS133	SILICON ROHM	
	D120	ISS133	SILICON ROHM	
	VC105	SVC342(L)	VARICAP SANYO	

△ : SAFETY PARTS

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION			AREA
	C186	QETB1HM-474	0.47MF	50V	ELECTRO	
	C192	QCC21EM-473	0.047MF	25V	CERAMIC	
	C193	QCS21HJ-180	18PF	50V	CERAMIC	
	C194	QCS21HJ-180	18PF	50V	CERAMIC	
	C195	QEN51HM-474	0.47MF	50V	NON POLE	
	C196	QCY21HK-102	1000PF	50V	CERAMIC	
	C200	QCF21HP-103	0.01MF	50V	CERAMIC	
	C201	QCY21HK-332	3300PF	50V	CERAMIC	
	C202	QCY21HK-332	3300PF	50V	CERAMIC	
	C203	QCY21HK-182	1800PF	50V	CERAMIC	
	C204	QCY21HK-182	1800PF	50V	CERAMIC	
	C209	QETB1CM-227	220MF	16V	ELECTRO	
	C210	QETB1CM-227	220MF	16V	ELECTRO	
	C230	QCF21HP-103	0.01MF	50V	CERAMIC	

△ : SAFETY PARTS

OTHERS

△	ITEM	PART NUMBER	DESCRIPTION			AREA
	J101	VMC0107-007	CONNECT TERMINAL(7PIN)			
	J105	VMC0107-003	CONNECT TERMINAL			G
	L101	EQL4007-1ROT	INDUCTOR			
	L106	EQL3001-102K	INDUCTOR			
	L111	EQL2103-393	INDUCTOR			
	L112	EQL2103-393	INDUCTOR			
	T101	EQR1111-014	AM RF COIL			
	T103	EQR1207-015	MW OSC COIL			
	T105	EQT2140-017	I.F. TRANSFORMER			
	T107	ECB1560-010	CERAMIC FILTER			
	AT101	EMB90YY-401K	ANTENNA TERMINAL			
	CF101	ECB2123-006R	CERAMIC FILTER			
	CF102	ECB2123-006R	CERAMIC FILTER			
	EP110	E70225-001	EARTH PLATE			
	FE101	EAF2203-001	FRONT END			
	JB103	EMV7125-005R	CONNECTOR(5PIN)			
	SW202	QSS7A12-E01	SLIDE SWITCH			
	TC105	EN21003-006	TRIMMER			
	XT102	ECX0007-200KC	RESONATOR			
	XT103	ECX0000-456KR	RESONATOR			

△ : SAFETY PARTS

RESISTORS

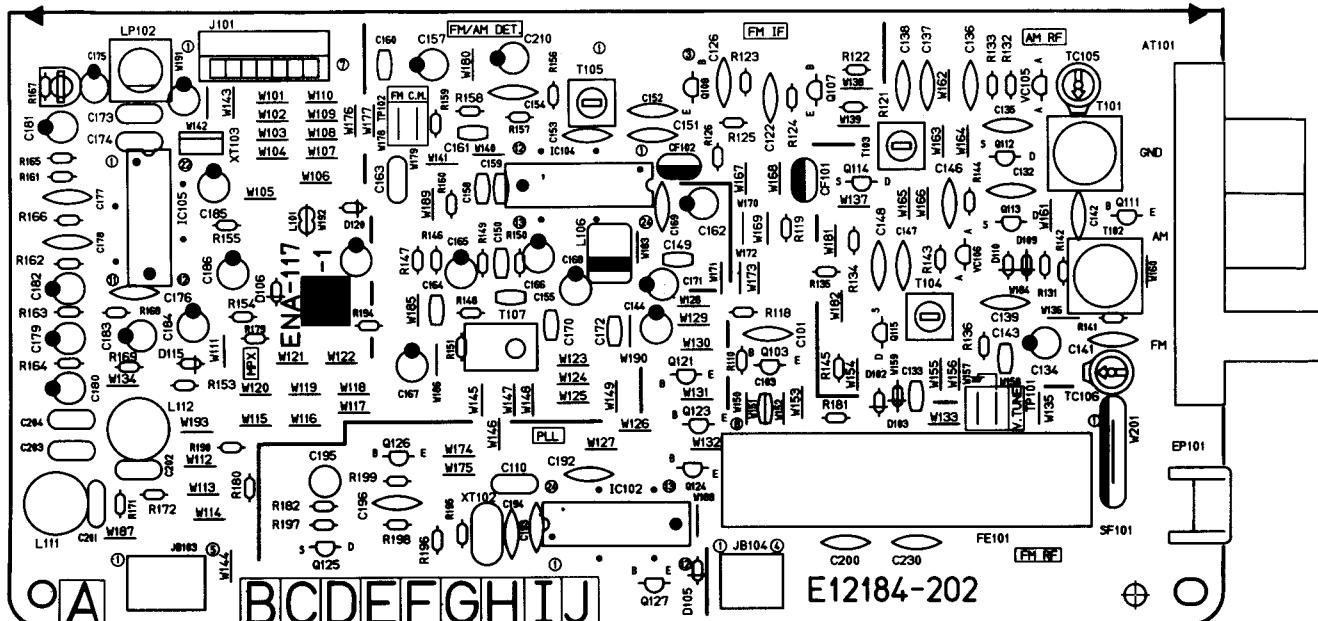
△	ITEM	PART NUMBER	DESCRIPTION			AREA
	R118	QRD167J-332	3.3K	1/6W	CARBON	
	R119	QRD161J-221	220	1/6W	CARBON	
	R121	QRD167J-391	390	1/6W	CARBON	
	R122	QRD167J-272	2.7K	1/6W	CARBON	
	R123	QRD167J-102	1K	1/6W	CARBON	
	R124	QRD167J-681	680	1/6W	CARBON	
	R125	QRD167J-332	3.3K	1/6W	CARBON	
	R126	QRD161J-221	220	1/6W	CARBON	
	R131	QRD167J-331	330	1/6W	CARBON	
	R132	QRD167J-103	10K	1/6W	CARBON	
	R133	QRD167J-473	47K	1/6W	CARBON	
	R135	QRD167J-470	47	1/6W	CARBON	
	R136	QRD167J-103	10K	1/6W	CARBON	
	R146	QRD167J-560	56	1/6W	CARBON	
	R147	QRD167J-103	10K	1/6W	CARBON	
	R148	QRD167J-103	10K	1/6W	CARBON	
	R149	QRD167J-223	22K	1/6W	CARBON	
	R150	QRD167J-103	10K	1/6W	CARBON	
	R151	QRD167J-222	2.2K	1/6W	CARBON	
	R153	QRD167J-103	10K	1/6W	CARBON	
	R154	QRD167J-103	10K	1/6W	CARBON	
	R155	QRD167J-562	5.6K	1/6W	CARBON	
	R156	QRD167J-682	6.8K	1/6W	CARBON	
	R157	QRD167J-103	10K	1/6W	CARBON	
	R158	QRD167J-273	27K	1/6W	CARBON	
	R159	QRD167J-561	560	1/6W	CARBON	
	R160	QRD167J-562	5.6K	1/6W	CARBON	G
	R160	QRD167J-103	10K	1/6W	CARBON	H
	R161	QRD167J-823	82K	1/6W	CARBON	G
	R161	QRD167J-104	100K	1/6W	CARBON	H
	R162	QRD167J-823	82K	1/6W	CARBON	G
	R162	QRD167J-104	100K	1/6W	CARBON	H
	R163	QRD167J-472	4.7K	1/6W	CARBON	G
	R163	QRD167J-392	3.9K	1/6W	CARBON	H
	R164	QRD167J-472	4.7K	1/6W	CARBON	G
	R164	QRD167J-392	3.9K	1/6W	CARBON	H
	R165	QRD167J-184	180K	1/6W	CARBON	G
	R165	QRD167J-274	270K	1/6W	CARBON	H
	R166	QRD167J-184	180K	1/6W	CARBON	G
	R166	QRD167J-274	270K	1/6W	CARBON	H
	R167	QRD167J-393	39K	1/6W	CARBON	
	R168	QRD167J-103	10K	1/6W	CARBON	
	R169	QRD167J-103	10K	1/6W	CARBON	
	R171	QRD167J-682	6.8K	1/6W	CARBON	
	R172	QRD167J-682	6.8K	1/6W	CARBON	
	R179	QRD167J-562	5.6K	1/6W	CARBON	
	R180	QRD167J-472	4.7K	1/6W	CARBON	
	R181	QRD167J-222	2.2K	1/6W	CARBON	
	R182	QRD167J-181	180	1/6W	CARBON	
	R190	QRD167J-472	4.7K	1/6W	CARBON	
	R194	QRD167J-472	4.7K	1/6W	CARBON	
	R195	QRD167J-473	47K	1/6W	CARBON	
	R196	QRD167J-103	10K	1/6W	CARBON	
	R197	QRD167J-222	2.2K	1/6W	CARBON	
	R198	QRD167J-332	3.3K	1/6W	CARBON	
	R199	QRD167J-472	4.7K	1/6W	CARBON	

△ : SAFETY PARTS

www.manualscenter.com

■ ENA-117 □ Tuner PC Board Ass'y (Scandinavia, Continental Europe, Italy)

Note : ENA-117 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENA-117 E	Scandinavia Continental Europe
ENA-117 G	Italy

TRANSISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q103	2SC461(B,C)	SILICON HITACHI	
	Q107	2SC535(B,C)	SILICON HITACHI	
	Q108	2SC461(B,C)	SILICON HITACHI	
	Q111	2SD2144S(VW)	SILICON ROHM	
	Q112	2SK301(Q,R)	F.E.T MATSUSHITA	
	Q113	2SK301(Q,R)	F.E.T MATSUSHITA	
	Q114	2SK301(Q,R)	F.E.T MATSUSHITA	
	Q115	2SK301(Q,R)	F.E.T MATSUSHITA	
	Q121	DTA124ES	SILICON	
	Q123	DTA124ES	SILICON	
	Q124	DTA124ES	SILICON	
	Q125	2SK301(Q2)	F.E.T MATSUSHITA	
	Q126	2SC458(D)	SILICON HITACHI	
	Q127	DTC144ES	SILICON ROHM	

△ : SAFETY PARTS

I. C. S.

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC102	LC7218	I.C. SANYO	
	IC104	LA1266A	I.C. SANYO	
	IC105	LA3401	I.C. SANYO	

△ : SAFETY PARTS

DIODES

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	D102	1SS133	SILICON ROHM	
	D103	1SS133	SILICON ROHM	
	D105	1SS133	SILICON ROHM	
	D106	1SS133	SILICON ROHM	
	D109	1SS133	SILICON ROHM	
	D110	1SS133	SILICON ROHM	
	D115	1SS133	SILICON ROHM	
	D120	1SS133	SILICON ROHM	
	VC105	SVC342(L)	VARICAP SANYO	
	VC106	SVC342(L)	VARICAP SANYO	

△ : SAFETY PARTS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	C101	QCF21HP-223	0.022MF 50V CERAMIC	
	C110	QCZ0202-155	1.5MF 25V CERAMIC	
	C122	QCF21HP-223	0.022MF 50V CERAMIC	
	C126	QCF21HP-223	0.022MF 50V CERAMIC	
	C132	QCS21HJ-561	560PF 50V CERAMIC	
	C133	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C134	QETB1EM-106	10MF 25V ELECTRO	
	C135	QCC21EM-223	0.022MF 25V CERAMIC	
	C136	QCT26CH-180	18PF 50V CERAMIC	
	C137	QCT26CH-221	220PF 50V CERAMIC	
	C138	QCT26CH-241	240PF 50V CERAMIC	
	C139	QCC21EM-223	0.022MF 25V CERAMIC	
	C141	QSC21HJ-270	27PF 50V CERAMIC	
	C142	QCY21HK-272	2700PF 50V CERAMIC	
	C143	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C144	QETB1EM-106	10MF 25V ELECTRO	
	C146	QCT26CH-680	68PF 50V CERAMIC	
	C147	QCT26CH-220	22PF 50V CERAMIC	
	C148	QCT26CH-121	120PF 50V CERAMIC	
	C149	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C150	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C151	QCF21HP-223	0.022MF 50V CERAMIC	
	C152	QCF21HP-223	0.022MF 50V CERAMIC	
	C153	QCC21EM-223	0.022MF 25V CERAMIC	
	C154	QCF21HP-223	0.022MF 50V CERAMIC	
	C155	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C157	QETB1HM-474	0.47MF 50V ELECTRO	
	C158	QCBB1HK-101	100PF 50V CERAMIC	
	C159	QCBB1HK-101	100PF 50V CERAMIC	
	C160	QCBB1HK-221	220PF 50V CERAMIC	
	C161	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C162	QETB1EM-106	10MF 25V ELECTRO	
	C163	QCY21HK-102	1000PF 50V CERAMIC	
	C164	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C165	QETB1HM-474	0.47MF 50V ELECTRO	
	C166	QETB1HM-225	2.2MF 50V ELECTRO	
	C167	QETB1HM-225	2.2MF 50V ELECTRO	
	C168	QETB1HM-475	4.7MF 50V ELECTRO	
	C169	QCF21HP-223	0.022MF 50V CERAMIC	
	C170	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C171	QETB1EM-106	10MF 25V ELECTRO	
	C172	QCVB1CM-103	0.01MF 16V CERAMIC	
	C173	QFLB1HJ-223	0.022MF 50V MYLAR	
	C174	QFLB1HJ-473	0.047MF 50V MYLAR	
	C175	QETB1EM-106	10MF 25V ELECTRO	
	C176	QCY21HK-102	1000PF 50V CERAMIC	
	C177	QCS21HJ-561	560PF 50V CERAMIC	
	C178	QCS21HJ-561	560PF 50V CERAMIC	
	C179	QETB1HM-225	2.2MF 50V ELECTRO	
	C180	QETB1HM-225	2.2MF 50V ELECTRO	
	C181	QETB1HM-106	10MF 25V ELECTRO	
	C182	QETB1HM-225	2.2MF 50V ELECTRO	
	C183	QETB1HM-105	1MF 50V ELECTRO	
	C184	QETB1HM-105	1MF 50V ELECTRO	
	C185	QETB1HM-225	2.2MF 50V ELECTRO	

△ : SAFETY PARTS

C A P A C I T O R S

△ ITEM	PART NUMBER	D E S C R I P T I O N				AREA
C186	QETB1HM-474	0.47MF	50V	ELECTRO		
C192	QCC21EM-473	0.047MF	25V	CERAMIC		
C193	QCS21HJ-180	18PF	50V	CERAMIC		
C194	QCS21HJ-180	18PF	50V	CERAMIC		
C195	QEN51HM-474	0.47MF	50V	NON POLE		
C196	QCY21HK-102	1000PF	50V	CERAMIC		
C200	QCF21HP-103	0.01MF	50V	CERAMIC		
C201	QCY21HK-102	1000PF	50V	CERAMIC		
C202	QCY21HK-102	1000PF	50V	CERAMIC		
C203	QCY21HK-182	1800PF	50V	CERAMIC		
C204	QCY21HK-182	1800PF	50V	CERAMIC		
C209	QETB1CM-227	220MF	16V	ELECTRO		
C210	QETB1CM-227	220MF	16V	ELECTRO		
C230	QCF21HP-103	0.01MF	50V	CERAMIC		

△ : SAFETY PARTS

R E S I S T O R S

△ ITEM	PART NUMBER	D E S C R I P T I O N				AREA
R118	QRD167J-332	3.3K	1/6W	CARBON		
R119	QRD161J-221	220	1/6W	CARBON		
R121	QRD167J-391	390	1/6W	CARBON		
R122	QRD167J-272	2.7K	1/6W	CARBON		
R123	QRD167J-102	1K	1/6W	CARBON		
R124	QRD167J-681	680	1/6W	CARBON		
R125	QRD167J-332	3.3K	1/6W	CARBON		
R126	QRD161J-221	220	1/6W	CARBON		
R131	QRD167J-331	330	1/6W	CARBON		
R132	QRD167J-103	10K	1/6W	CARBON		
R133	QRD167J-473	47K	1/6W	CARBON		
R134	QRD167J-103	10K	1/6W	CARBON		
R135	QRD167J-470	47	1/6W	CARBON		
R136	QRD167J-103	10K	1/6W	CARBON		
R141	QRD167J-472	4.7K	1/6W	CARBON		
R142	QRD167J-331	330	1/6W	CARBON		
R143	QRD167J-103	10K	1/6W	CARBON		
R144	QRD167J-473	47K	1/6W	CARBON		
R145	QRD167J-103	10K	1/6W	CARBON		
R146	QRD167J-560	56	1/6W	CARBON		
R147	QRD167J-103	10K	1/6W	CARBON		
R148	QRD167J-103	10K	1/6W	CARBON		
R149	QRD167J-273	27K	1/6W	CARBON		
R150	QRD167J-103	10K	1/6W	CARBON		
R151	QRD167J-222	2.2K	1/6W	CARBON		
R153	QRD167J-103	10K	1/6W	CARBON		
R154	QRD167J-103	10K	1/6W	CARBON		
R155	QRD167J-562	5.6K	1/6W	CARBON		
R156	QRD167J-682	6.8K	1/6W	CARBON		
R157	QRD167J-103	10K	1/6W	CARBON		
R158	QRD167J-273	27K	1/6W	CARBON		
R159	QRD167J-561	560	1/6W	CARBON		
R160	QRD167J-103	10K	1/6W	CARBON		
R161	QRD167J-104	100K	1/6W	CARBON		
R162	QRD167J-104	100K	1/6W	CARBON		
R163	QRD167J-392	3.9K	1/6W	CARBON		
R164	QRD167J-392	3.9K	1/6W	CARBON		
R165	QRD167J-274	270K	1/6W	CARBON		
R166	QRD167J-274	270K	1/6W	CARBON		
R167	QRD167J-473	47K	1/6W	CARBON		
R168	QRD167J-103	10K	1/6W	CARBON		
R169	QRD167J-103	10K	1/6W	CARBON		
R171	QRD167J-682	6.8K	1/6W	CARBON		
R172	QRD167J-682	6.8K	1/6W	CARBON		
R179	QRD167J-562	5.6K	1/6W	CARBON		
R180	QRD167J-472	4.7K	1/6W	CARBON		
R181	QRD167J-222	2.2K	1/6W	CARBON		
R182	QRD167J-181	180	1/6W	CARBON		
R190	QRD167J-472	4.7K	1/6W	CARBON		
R194	QRD167J-472	4.7K	1/6W	CARBON		
R195	QRD167J-473	47K	1/6W	CARBON		
R196	QRD167J-222	2.2K	1/6W	CARBON		
R197	QRD167J-222	2.2K	1/6W	CARBON		
R198	QRD167J-822	8.2K	1/6W	CARBON		
R199	QRD167J-472	4.7K	1/6W	CARBON		

△ : SAFETY PARTS

O T H E R S

△ ITEM	PART NUMBER	D E S C R I P T I O N				AREA
J101	E12184-202	CONNECT TERMINAL(7PIN)				
L101	VMC0107-007	INDUCTOR				
L106	EQL4007-1R0T	INDUCTOR				
L111	EQL3001-102K	INDUCTOR				
L112	EQL2103-393	INDUCTOR				
T101	EQR1111-014	AM RF COIL				
T102	EQR1111-005	AM RF COIL				
T103	EQR1207-015	MW OSC COIL				
T104	EQR1307-009	LW OSC COIL				
T105	EQT2140-017	I.F. TRANSFORMER				
T107	EBC81560-010	CERAMIC FILTER				
AT101	EMB41YY-301K	ANTENNA TERMINAL				
CF101	ECB2118-007R	CERAMIC FILTER				
CF102	ECB2118-007R	CERAMIC FILTER				
EP101	E70225-001	EARTH PLATE				
FE101	EAF2203-001	FRONT END				E
FE101	EAF2203-003	FRONT END				G
JB103	EMV7125-005R	CONNECTOR(5PIN)				
LP102	EQF0102-001	LOW PASS FILTER				
TC105	ENZ1003-006	TRIMMER				
TC106	ENZ1003-006	TRIMMER				
XT102	ECX0007-200KC	RESONATOR				
XT103	ECX0000-456KR	RESONATOR				

△ : SAFETY PARTS

Accessories List

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1941B E30580-1942B E30580-1942B E30580-1943B E30580-1944B	INSTRUCTION BOOK INSTRUCTION BOOK INSTRUCTION BOOK INSTRUCTION BOOK INSTRUCTION BOOK	1 1 1 1 1		A EF GI EN U
	E30580-1944B BT-20122 BT-20122-1 EWP502-005K EWP502-005K	INSTRUCTION BOOK WARRANTY CARD STICKER BILT-IN ANTENNA BILT-IN ANTENNA	1 1 1 1 1		UT A A A EF
	EWP502-005K EWP502-005K EWP502-005K EWP502-005K EMZ2001-014	BILT-IN ANTENNA BILT-IN ANTENNA BILT-IN ANTENNA BILT-IN ANTENNA AC ADAPTOR	1 1 1 1 1		EN GI U UT EF
	EMZ2001-014 EMZ2001-014 E35497-019 E35497-019 E306858-002	AC ADAPTOR AC ADAPTOR CAUTION SHEET CAUTION SHEET CAUTION SHEET	1 1 1 1 1	220V 220V	EN GI U UT UT
⚠	E04056 E04056 EQB4001-015 RM-SE59U UM-4NJ-2PSA	SIEMENS PLUG SIEMENS PLUG LOOP ANTENNA WIRE-LESS REMOTE CONTROL BATTERY	1 1 1 1 1		U UT
	E300196-033B	ENVELOPE	1		

⚠ SAFETY PARTS

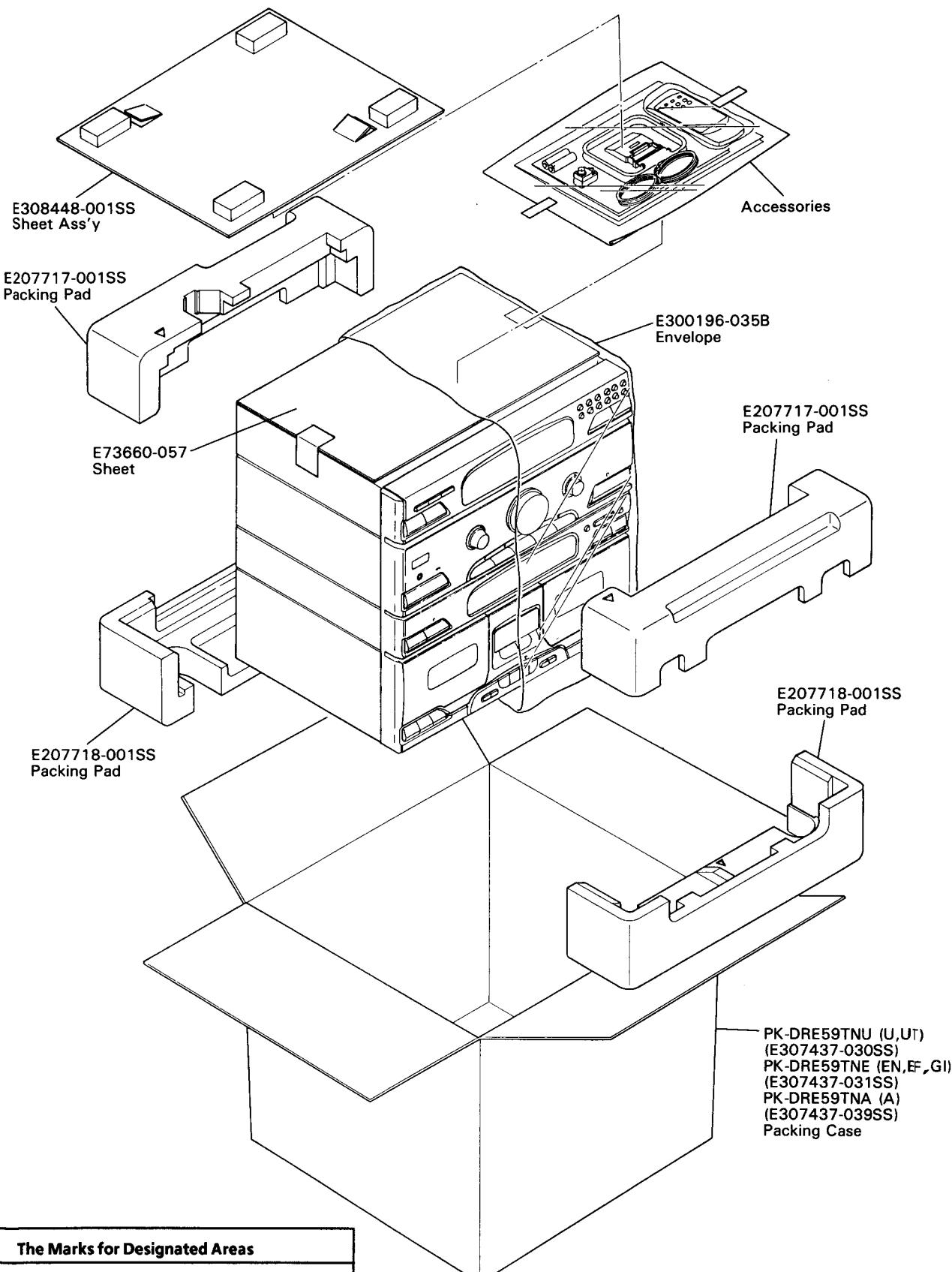
The Marks for Designated Areas

A Australia	EN Scandinavia	EF Continental Europe
GI Italy	UT Taiwan	U Universal Type

No marks indicates all areas.

www.manualscenter.com

Packing Materials and Part Numbers



The Marks for Designated Areas

A.....Australia	EN.....Scandinavia
EF.....Continental Europe	
GI.....Italy	UT.....Taiwan
U.....Universal Type	No mark indicates all areas.

www.manualscenter.com

PARTS LIST

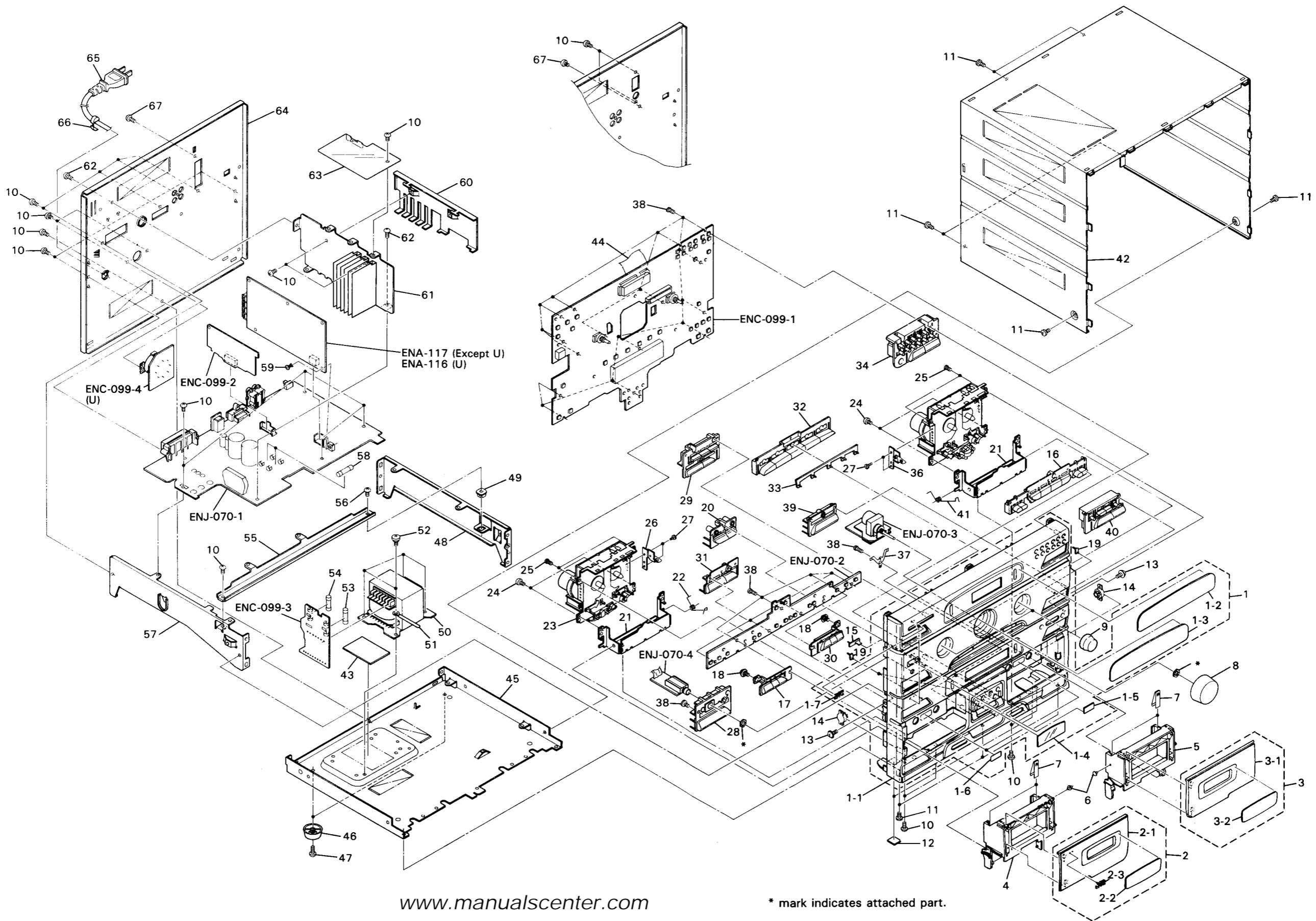
www.manualscenter.com

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

Contents

General Exploded View and Parts List	2-3
Cassette Mechanism Ass'y and Parts List	2-8
■ A Mechanism	2-8
■ B Mechanism	2-11
Printed Circuit Board Ass'y and Parts List	2-14
■ ENJ-070 <input type="checkbox"/> Cassette Control & Amplifier PC Board Ass'y	2-14
■ ENC-099 <input type="checkbox"/> Display & Control PC Board Ass'y	2-19
■ ENA-116 <input type="checkbox"/> Tuner PC Board Ass'y	2-22
■ ENA-117 <input type="checkbox"/> Tuner PC Board Ass'y	2-24
Accessories List	2-26
Packing Materials and Part Numbers	2-27

General Exploded View and Parts List



■ Parts List

Item	Part Number	Part Name	Q'ty	Description	Areas
1	EFP-DRE58BKE (S)	FRONT PANEL ASSY	1		
1-1	E102654-004SS	FRONT PANEL	1		
1-2	E308304-001SS	WINDOW SCREEN	1		
1-3	E308304-002SS	WINDOW SCREEN	1		
1-4	E308306-001SS	WINDOW SCREEN	1		
1-5	E407335-001SS	REMOTE PLATE	1		
1-6	E69777-003	REFLECTION PLATE	2		
1-7	E406971-221	JVC MARK	3		
2	E207741-002SA	CASSETTE LID ASSY	1	(A)	
2-1	E207741-002SS	CASSETTE LID	1	(A)	
2-2	E308308-001SS	WINDOW SCREEN	1	(A)	
2-3	E406971-221	JVC MARK	1	(A)	
3	E207743-002SA	CASSETTE LID ASSY	1	(B)	
3-1	E207743-002SS	CASSETTE LID	1	(B)	
3-2	E308308-001SS	WINDOW SCREEN	1	(B)	
4	E207713-004SS	CASSETTE HOLDER	1	(A)	
5	E207715-004SS	CASSETTE HOLDER	1	(B)	
6	E75600-001	SHAFT	2		
7	E406713-001	CASSETTE SPRING	4		
8	E308096-008	KNOB	1		
9	E308138-004	KNOB	2		
10	SBSG3008N	SCREW	18		BS
	SBSG3008N	SCREW	2		EF
	SBSG3008N	SCREW	2		EN
	SBSG3008N	SCREW	2		
11	SBSG3008N	SCREW	2		G
12	SBSG3008N	SCREW	3		U
11	SDSG3008M	SCREW	9		
12	E75896-001	SPACER	2	FRONT FOOT	
13	GBSG3008Z	SCREW	2		
14	E304434-002	DAMPER ASSY	2		
15	E406938-331	INDICATOR	1		
16	E207711-002SS	PUSH BUTTON	1	REC	
17	E308296-004SS	PUSH BUTTON	1	(A)	
18	GBSF2608Z	SCREW	2		
19	E406673-001	INDICATOR	3		
20	E308302-002SS	PUSH BUTTON	1	DOLBY	
21	E307328-002SS	HOLDER BRACKET	2		
22	E406661-001SS	HOLDER SPRING	1	(A)	
23	-----	A MECHANISM ASSY	1	SEE PAGE 2-8	
24	SBST3006C	SCREW	4		
25	SDSF2608C	SCREW	4		
26	E406935-002	LOCK CAM	1	LEFT (A)	
27	SPST2004Z	SCREW	4		
28	E308291-002SS	PUSH BUTTON	1	POWER	
29	E207707-002SS	PUSH BUTTON	1	TUNING	
30	E308298-004SS	PUSH BUTTON	1	(B)	
31	E308288-002SS	PUSH BUTTON	1	SEA	
32	E207709-002SS	PUSH BUTTON	1	SOURCE	
33	E308310-001	INDICATOR	1		
34	E207703-004SS	PUSH BUTTON	1		BS
	E207703-004SS	PUSH BUTTON	1		EF
	E207703-004SS	PUSH BUTTON	1		EN
	E207703-004SS	PUSH BUTTON	1		G
	E207703-002SS	PUSH BUTTON	1		U

Item	Part Number	Part Name	Q'ty	Description	Areas
35	-----	B MECHANISM ASSY	1	SEE PAGE 2-11	
36	E406936-002	LOCK CAM	1	RIGHT (B)	
37	E305914-001	LEAF SPRING	2		
38	SDSF2608Z	SCREW	25		
39	E308294-004SS	PUSH BUTTON	1	S.BASS	
40	E207705-002SS	PUSH BUTTON	1		
41	E406662-001SS	HOLDER SPRING	1	(B)	
42	E207033-006SS	METAL COVER	1		G
43	EXO048075R20S	SPACER	1		
44	EWR635K-25TTJ2	FLAT WIRE	1		
45	E12213-002SS	CHASSIS BASE	1		
46	E47227-012	FOOT	2	REAR	
47	SBSG3010Z	SCREW	2	FOR FOOT	
48	E306660-002SS	SIDE BRACKET	1	RIGHT	
49	E306764-001	FASTENER	1		
50	ETP1050-31EAJS	POWER TRANSFORMER	1		BS
	ETP1050-31EAJ	POWER TRANSFORMER	1		EF
	ETP1050-31EAJ	POWER TRANSFORMER	1		EN
	ETP1050-31EAJ	POWER TRANSFORMER	1		G
	ETP1050-31FAJ	POWER TRANSFORMER	1		U
51	E72018-001	WIRE CLAMPER	1		
52	E65389-004	SPECIAL SCREW	4		
53	QMF51E2-1R2J1BS	FUSE	1	F001 (T1.2A/250V)	BS
	QMF51E2-1R25J1	FUSE	1	F001 (T1.25A/250V)	EF
	QMF51E2-1R25J1	FUSE	1	F001 (T1.25A/250V)	EN
54	QMF51E2-1R25J1	FUSE	1	F001 (T1.25A/250V)	G
55	QMF51E2-2R5J1	FUSE	1	F001 (T2.5A/250V)	U
56	QMF51E2-1R25J1	FUSE	1	F002	U
57	E306659-001SS	SIDE BRACKET	1	LEFT	
58	QMF51E2-1R2J1BS	FUSE	2	F051, F052 (T1.2A/250V)	BS
	QMF51E2-1R25J1	FUSE	2	F051, F052 (T1.25A/250V)	EF
	QMF51E2-1R25J1	FUSE	2	F051, F052 (T1.25A/250V)	EN
	QMF51E2-1R25J1	FUSE	2	F051, F052 (T1.25A/250V)	G
59	QMF51E2-1R25J1	FUSE	2	F051, F052 (T1.25A/250V)	U
60	E48729-008	PLASTIC RIVET	1		
61	E306705-002SS	LEAF SPRING	1		
62	E306770-004SS	HEAT SINK	1		
63	E306780-001SS	SCREW	2		
64	E306781-001SS	SCREW	2		
65	E75940-331SS	COVER	1		
66	E102394-053SS	REAR PANEL	1		BS
	E102394-052SS	REAR PANEL	1		EF
	E102394-052SS	REAR PANEL	1		EN
	E102394-052SS	REAR PANEL	1		G
67	E102394-054SS	REAR PANEL	1		U
68	QMP5530-0085BS	POWER CORD	1		BS
69	QMP3900-200	POWER CORD	1		EF
70	QMP3900-200	POWER CORD	1		EN
71	QMP3900-200	POWER CORD	1		G
72	QMP7520-200	POWER CORD	1		U
73	QHS3876-162BS	CORD STOPPER	1		BS
74	QHS3876-162	CORD STOPPER	1		EF
75	QHS3876-162	CORD STOPPER	1		EN
76	QHS3876-162	CORD STOPPER	1		G
77	QHS3876-162	CORD STOPPER	1		U

△	Item	Part Number	Part Name	Q'ty	Description	Areas
	67	SBST3006N	SCREW	1		
	68	E36997-242	PROTECT SHEET	1		
-	E61029-005		NUMBER LABEL	1		
-	QZL1031-101		LABEL	1		EF
-	E70027-001		LABEL	1		EN

△ SAFETY PARTS

The Marks for Designated Areas

EN Scandinavia
BS the U.K.EF Continental Europe
U Universal Type

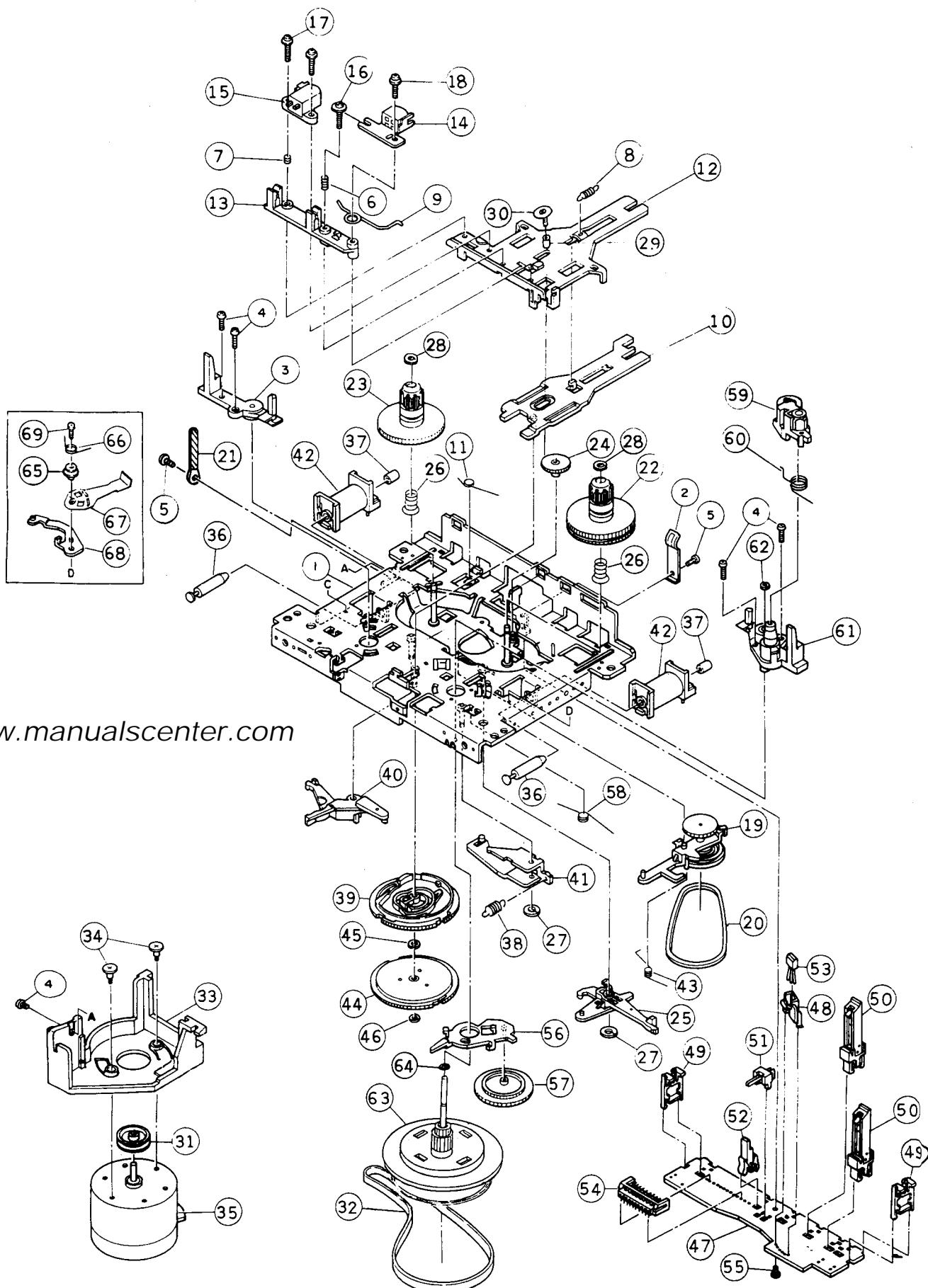
G Germany

No mark indicates all areas.

www.manualscenter.com

Cassette Mechanism Ass'y and Parts List

■ A Mechanism



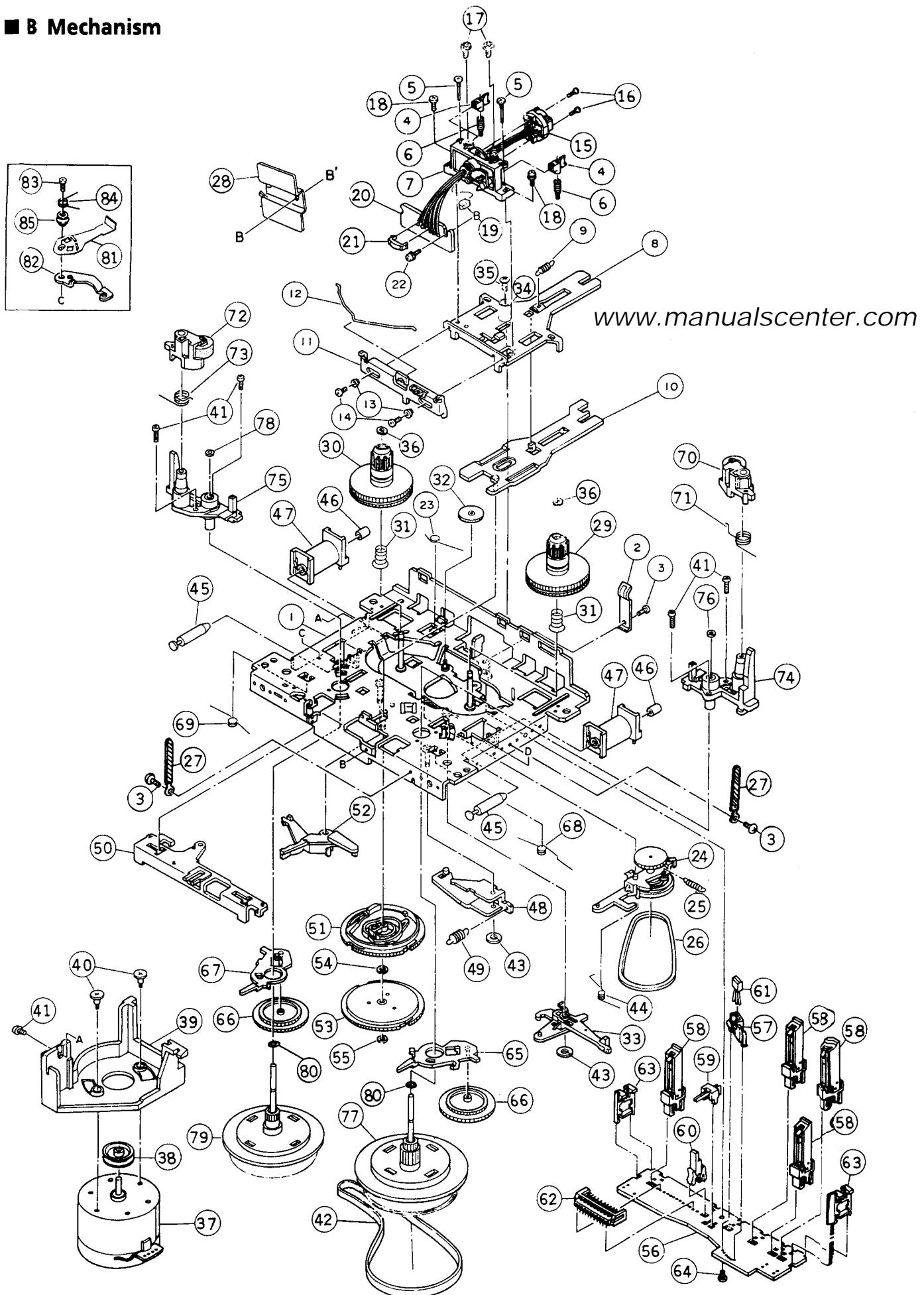
■ Parts List (A Mechanism)

Item	Part Number	Part Name	Q'ty	Description	Areas
1	188801501T	CHASSIS BASE	1		
2	18800102T	PACK SPRING	1		
3	18880106T	TAPE GUIDE	1		
4	SPST2005Z	SCREW	5		
5	SPST2004Z	SCREW	2		
6	18210307T	AZIMUTH SPRING	1		
7	18210308T	EH.SPRING	1		
8	18800204T	RC. SPRING	1		
9	18800406T	PINCH ROLLER SPRING	1		
10	188802501T	HEAD PANEL	1		
11	18880204T	HEAD FRONT SPRING	1		
12	18880209T	HEAD PANEL (A)	1		
13	18880211T	HEAD BASE	1		
14	62020188T	RECORD & PLAYBACK HEAD	1		
15	62011303T	DAMY HEAD	1		
16	9F0820591T	AZIMUTH SCREW	1		
17	9P1720111T	SCREW	2		
18	9P1720591T	SCREW	1		
19	188807307T	RF. CLUTCH	1		
20	18880707T	RF BELT	1		
21	11140302T	WIRE CLAMP	1		
22	188805301T	TAKE-UP REEL ASSY (F)	1		
23	188805307T	TAKE-UP REEL ASSY (R)	1		
24	18880508T	FF. GEAR	1		
25	18880509T	RF. TRIGGER ARM	1		
26	18880515T	B.T. SPRING (R)	2		
27	9W0640040T	HL. WASHER CUT	2		
28	9W0640030T	HL. WASHER CUT	2		
29	18880216T	PANEL COLLAR	1		
30	9C2520503T	SCREW	1		
31	18881210T	MOTOR PULLEY	1		
32	18880925T	M. BELT	1		
33	18881202T	MOTOR BRACKET	1		
34	19211202T	MOTOR COLLAR SCREW	2		
35	MMI-6H2LWK	DC MOTOR	1		
36	18802105T	PLUNGER	2		
37	18802106T	PLUNGER HOLDER	2		
38	18802111T	P.K. LEVER SPRING	1		
39	18882102T	M. GEAR	1		
40	18882103T	M. TRIGGER ARM	1		
41	18882104T	P. KICK LEVER	1		
42	18882108T	SOLENOID	2		
43	18882109T	TRIGGER ARM SPRING	1		
44	18882110T	RF. CAM GEAR	1		
45	REE2000	E.RING	1		
46	9W0650040T	HL. WASHER CUT	1		
47	18885306T	P. BASE	1		
48	18885303T	IC PROTECTOR	1		
49	18885304T	P. BASE STAND	2		
50	640101193T	LEAF SWITCH	2		
51	640101194T	LEAF SWITCH	1		
52	640101195T	LEAF SWITCH	1		
53	68040604T	HALL IC	1		
54	68150205T	CONNECTOR	1		
55	SPST2004Z	SCREW	1		

Item	Part Number	Part Name	Q'ty	Description	Areas
56	188805501T	T. GEAR ARM (F) ASSY	1		
57	18880507T	T. GEAR	1		
58	18880516T	T.G.ARMS (F) SPRING	1		
59	188804301T	PINCH ROLLER ARM (F) ASSY	1		
60	18800403T	P. ARM (F) SPRING	1		
61	188809301T	FL. METAL (F) ASSY	1		
62	9W0650050T	HL. WASHER CUT	1		
63	188809311T	FLYWHEEL ASSY	1		
64	9W0520030T	HL. WASHER	1		
65	18801305T	E. STOPPER COLLAR	1		
66	18801320T	SPRING	1		
67	18881309T	EJECT STOPPER	1		
68	18881302T	EJECT STOPPER	1		
69	99991404T	SCREW	1		

www.manualscenter.com

■ B Mechanism



■ Parts List (B Mechanism)

Item	Part Number	Part Name	Q'ty	Description	Areas
1	188801501T	CHASSIS BASE	1		
2	18800102T	PACK SPRING	1		
3	SPST2004Z	SCREW	3		
4	18650250AT	TAPE GUIDE	2		
5	18650252T	SCREW	2		
6	18650254T	GUIDE SPRING	2		
7	188002307T	HEAD BASE ASSY	1		
8	18880202T	HEAD PANEL (A)	1		
9	18800204T	RC SPRING	1		
10	188802501T	HEAD PANEL (B) ASSY	1		
11	18800206T	CHP LEVER	1		
12	18800405T	PINCH ROLLER SPRING	1		
13	18650228T	CHP LEVER COLLAR	2		
14	9C0117301T	SCREW	2		
15	62020606T	HEAD	1		
16	9F1316482T	SCREW	2		
17	9P1520063T	SCREW	2		
18	9P0220051T	SCREW	2		
19	18650961T	SPACER	1		
20	18650234T	RELAY BOARD	1		
21	18650249T	WIRE CLAMP	1		
22	9P1220051T	SCREW	1		
23	18880204T	HEAD PANEL SPRING	1		
24	188807307T	RF. CLUTCH ASSY	1		
25	18880709T	RF. PULLER ARM SPRING	1		
26	18880707T	RF BELT	1		
27	11140302T	CORD CLAMP	2		
28	18880212T	SHIELD PLATE	1		
29	188805301T	T. REEL ASSY (F)	1		
30	188805302T	T. REEL ASSY (R)	1		
31	18880515T	B.T. SPRING	2		
32	18880508T	FF. GEAR	1		
33	18880509T	RF. TRIGGER ARM	1		
34	18880216T	PANEL COLLAR	1		
35	9C2520503T	SCREW	1		
36	9W0640030T	HL. WASHER CUT	2		
37	MMI-6H2LWK	DC MOTOR	1		
38	18881210T	MOTOR PULLEY (U)	1		
39	18881202T	MOTOR BRACKET	1		
40	19211202T	SCREW	2		
41	SPST2005Z	SCREW	5		
42	18880925T	M. BELT	1		
43	9W0640040T	HL. WASHER CUT	2		
44	18882109T	TRIGGER ARM SPRING	1		
45	18802105T	PLUNGER	2		
46	18802106T	PLUNGER HOLDER	2		
47	18882108T	SOLENOID	2		
48	18882104T	P. KICK LEVER	1		
49	18802111T	P.K. LEVER SPRING	1		
50	18882101T	CH. SLIDE LEVER	1		
51	18882102T	M. GEAR	1		
52	18882103T	M. TIRGGER ARM	1		
53	18882110T	RF. CAM GEAR	1		
54	REE2000	E.RING	1		
55	9W0650040T	HL. WASHER CUT	1		

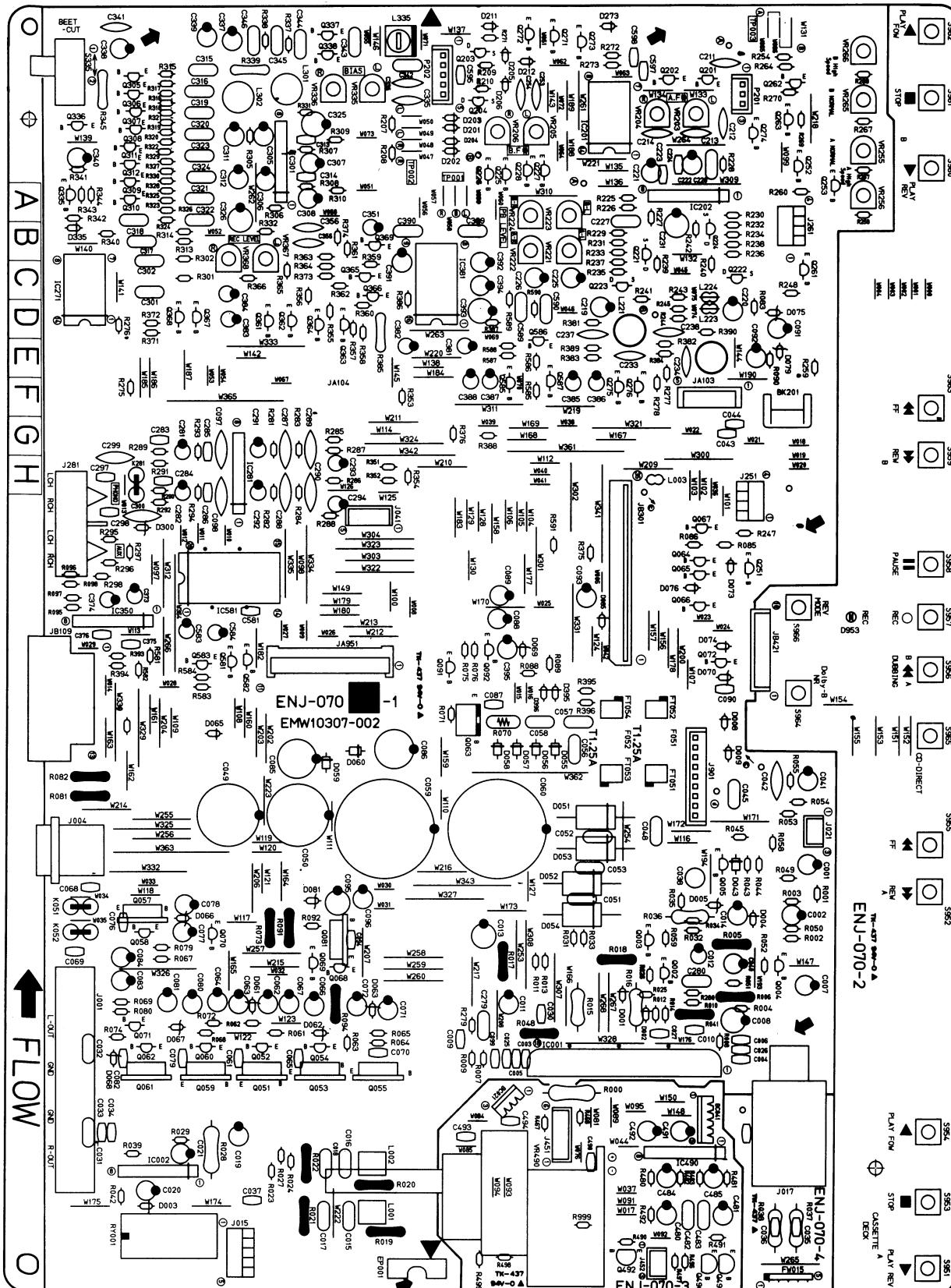
Item	Part Number	Part Name	Q'ty	Description	Areas
56	18885306T	P. BASE	1		
57	18885303T	IC PROTECTOR	1		
58	640101193T	LEAF SWITCH	4		
59	640101194T	LEAF SWITCH	1		
60	640101195T	LEAF SWITCH	1		
61	68040604T	HALL IC	1		
62	68150206T	CONNECTOR	1		
63	18885304T	P. BASE STAND	2		
64	SPST2004Z	SCREW	1		
65	188805501T	T. GEAR ARM (F) ASSY	1		
66	18880507T	T. GEAR	2		
67	188805502T	T. GEAR ARM (R) ASSY	1		
68	18880513T	T.G. ARM (F) SPRING	1		
69	18880514T	T.G. ARM (R) SPRING	1		
70	188804301T	PINCH ROLLER ARM (F) ASSY	1		
71	18800403T	P. ARM (F) SPRING	1		
72	188804302T	PINCH ROLLER ARM (R) ASSY	1		
73	18800404T	P. ARM (R) SPRING	1		
74	188809301T	FL METAL (F) ASSY	1		
75	188809302T	FL METAL (R) ASSY	1		
76	9W0650050T	HL. WASHER CUT	1		
77	188809311T	FLYWHEEL (F) ASSY	1		
78	9W0650080T	HL. WASHER CUT	1		
79	188809312T	FLYWHEEL (R) ASSY	1		
80	9W0520030T	HL. WASHER	2		
81	18881309T	EJECT STOPPER	1		
82	18881303T	EJECT STOPPER B (R)	1		
83	99991404T	SCREW	1		
84	18801321T	E. STOPPER SPRING (R)	1		
85	18801305T	E. STOPPER COLLAR	1		

www.manualscenter.com

Printed Circuit Board Ass'y and Parts List

■ ENJ-070 □ Cassette Control & Amplifier PC Board Ass'y

Note : ENJ-070 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENJ-070 A	Universal Type
ENJ-070 B	Scandinavia Continental Europe
ENJ-070 C	Germany

TRANSISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q002	2SC945A(P,Q)	SILICON	NEC
	Q003	2SC1740S(R,S)	SILICON	ROHM
	Q004	2SK301(P,Q)	F.E.T	MATSUSHITA
	Q005	2SA733A(P,Q)	SILICON	NEC
	Q051	2SD2061(E,F)	SILICON	ROHM
	Q052	2SC945A(P,Q)	SILICON	NEC
	Q053	2SD2061(E,F)	SILICON	ROHM
	Q054	2SC945A(P,Q)	SILICON	NEC
	Q055	2SD2061(E,F)	SILICON	ROHM
	Q057	2SB1187(E,F)	SILICON	ROHM
	Q058	2SA733A(P,Q)	SILICON	NEC
	Q059	2SD2061(E,F)	SILICON	ROHM
	Q060	2SC945A(P,Q)	SILICON	NEC
	Q061	2SB1187(E,F)	SILICON	ROHM
	Q062	2SA733A(P,Q)	SILICON	NEC
	Q063	2SB1357(E,F)	SILICON	ROHM
	Q064	2SD2144S(VW)	SILICON	ROHM
	Q065	2SD2144S(VW)	SILICON	ROHM
	Q066	DTC144ES	SILICON	ROHM
	Q067	DTA144ES	SILICON	ROHM
	Q068	DTC144ES	SILICON	ROHM
	Q069	DTA114YS	SILICON	ROHM
	Q070	DTA144ES	SILICON	ROHM
	Q071	DTC114YS	SILICON	ROHM
	Q072	DTC114YS	SILICON	ROHM
	Q081	2SD2061(E,F)	SILICON	ROHM
	Q091	DTC114YS	SILICON	ROHM
	Q092	DTC114YS	SILICON	ROHM
	Q201	DTC144ES	SILICON	ROHM
	Q202	DTC144ES	SILICON	ROHM
	Q203	2SK373(O,Y)	F.E.T	TOSHIBA
	Q204	2SK373(O,Y)	F.E.T	TOSHIBA
	Q221	2SK301(Q,R)	F.E.T	MATSUSHITA
	Q222	2SK301(Q,R)	F.E.T	MATSUSHITA
	Q223	2SK301(Q,R)	F.E.T	MATSUSHITA
	Q224	2SK301(Q,R)	F.E.T	MATSUSHITA
	Q225	DTC114YS	SILICON	ROHM
	Q226	DTC114YS	SILICON	ROHM
	Q227	DTC114YS	SILICON	ROHM
	Q228	DTC114YS	SILICON	ROHM
	Q251	2SC3377(Q,R)	SILICON	ROHM
	Q252	2SC1740S(R,S)	SILICON	ROHM
	Q253	2SA933S(R-S)	SILICON	ROHM
	Q261	2SC3377(Q,R)	SILICON	ROHM
	Q262	2SC1740S(R,S)	SILICON	ROHM
	Q263	2SA933S(R-S)	SILICON	ROHM
	Q271	DTC144ES	SILICON	ROHM
	Q272	DTC144ES	SILICON	ROHM
	Q273	DTA144ES	SILICON	ROHM
	Q274	DTC144ES	SILICON	ROHM
	Q275	2SD2144S(VW)	SILICON	ROHM
	Q276	2SD2144S(VW)	SILICON	ROHM
	Q305	DTC144TS	SILICON	ROHM
	Q306	DTC144TS	SILICON	ROHM
	Q307	DTC144TS	SILICON	ROHM
	Q308	DTC144TS	SILICON	ROHM
	Q309	DTC144TS	SILICON	ROHM
	Q310	DTC144TS	SILICON	ROHM
	Q311	DTC144TS	SILICON	ROHM
	Q312	DTC144TS	SILICON	ROHM
	Q335	2SC945A(P,Q)	SILICON	NEC
	Q336	2SC945A(P,Q)	SILICON	NEC
	Q337	2SC1740S(R,S)	SILICON	ROHM
	Q338	2SC1740S(R,S)	SILICON	ROHM
	Q361	2SC1740S(R,S)	SILICON	ROHM
	Q362	2SC1740S(R,S)	SILICON	ROHM
	Q363	2SC1740S(R,S)	SILICON	ROHM
	Q364	2SC1740S(R,S)	SILICON	ROHM
	Q365	2SC1740S(R,S)	SILICON	ROHM
	Q366	2SC1740S(R,S)	SILICON	ROHM
	Q367	2SD2144S(VW)	SILICON	ROHM
	Q368	2SD2144S(VW)	SILICON	ROHM
	Q369	DTC144ES	SILICON	ROHM
	Q490	2SD2144S(VW)	SILICON	ROHM
	Q491	2SD2144S(VW)	SILICON	ROHM
	Q492	DTC114YS	SILICON	ROHM
	Q581	2SD2144S(VW)	SILICON	ROHM
	Q582	2SD2144S(VW)	SILICON	ROHM
	Q583	DTA144ES	SILICON	ROHM
	Q585	2SD2144S(VW)	SILICON	ROHM
	Q586	2SD2144S(VW)	SILICON	ROHM
	Q587	DTA144ES	SILICON	ROHM

△ : SAFETY PARTS

I. C. S.

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC001	STK4161MK5	I.C.	SANYO
	IC002	UPC1237HA	I.C.	NEC
	IC201	BU4066B	I.C.	ROHM
	IC202	UPC1228HA	I.C.	NEC
	IC271	TC4001BP	I.C.	TOSHIBA
	IC281	VC4580LD	I.C.	DAINICHI
	IC301	BA15218N	I.C.	ROHM
	IC350	BA15218N	I.C.	ROHM
	IC381	HA12136A	I.C.	HITACHI
	IC490	BA15218N	I.C.	ROHM
	IC581	TC9163N	I.C.	TOSHIBA

△ : SAFETY PARTS

DIODES

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	D001	ISS133	SILICON	ROHM
	D002	ISS133	SILICON	ROHM
	D003	MT224JC	ZENER	ROHM
	D004	ISS133	SILICON	ROHM
	D005	MT212JC	ZENER	ROHM
	D008	ISS133	SILICON	ROHM
	D009	1SR139-200	SILICON	ROHM
	D043	1SR139-200	SILICON	ROHM
	D051	S3V20F	SILICON	SINDENGEN
	D052	S3V20F	SILICON	SINDENGEN
	D053	S3V20F	SILICON	SINDENGEN
	D054	S3V20F	SILICON	SINDENGEN
	D055	1SR139-200	SILICON	ROHM
	D056	1SR139-200	SILICON	ROHM
	D057	1SR139-200	SILICON	ROHM
	D058	1SR139-200	SILICON	ROHM
	D059	1SR139-200	SILICON	ROHM
	D060	1SR139-200	SILICON	ROHM
	D061	MT213JC	ZENER	ROHM
	D062	MT213JC	ZENER	ROHM
	D063	MTZ6.2JC	ZENER	ROHM
	D065	ISS133	SILICON	ROHM
	D066	MT213JC	ZENER	ROHM
	D067	MT211JC	ZENER	ROHM
	D068	MT211JC	ZENER	ROHM
	D069	MTZ30JC	ZENER	ROHM
	D070	MTZ6.2JC	ZENER	ROHM
	D073	ISS133	SILICON	ROHM
	D074	ISS133	SILICON	ROHM
	D075	MTZ5.6JC	ZENER	ROHM
	D076	ISS133	SILICON	ROHM
	D079	MTZ5.6JC	ZENER	ROHM
	D081	MTZ6.2JC	ZENER	ROHM
	D085	ISS133	SILICON	ROHM
	D201	ISS133	SILICON	ROHM
	D202	ISS133	SILICON	ROHM
	D203	ISS133	SILICON	ROHM
	D204	ISS133	SILICON	ROHM
	D205	ISS133	SILICON	ROHM
	D206	ISS133	SILICON	ROHM
	D211	ISS133	SILICON	ROHM
	D212	ISS133	SILICON	ROHM
	D273	ISS133	SILICON	ROHM
	D300	MTZ5.6JC	ZENER	ROHM
	D335	ISS133	SILICON	ROHM
	D388	ISS133	SILICON	ROHM
	D395	ISS133	SILICON	ROHM
	D396	ISS133	SILICON	ROHM
	D953	SLR-34VC3F	L.E.D.	ROHM

△ : SAFETY PARTS

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	C001	EEZ5009-106	10MF	ELECTRO
	C002	EEZ5009-106	10MF	ELECTRO
	C003	QCSB1HJ-470	47PF	50V CERAMIC
	C003	QCSB1HJ-470	47PF	50V CERAMIC
	C004	QCSB1HJ-470	47PF	50V CERAMIC
	C005	QCBB1HK-B20	82PF	50V CERAMIC
	C005	QCBB1HK-B20	82PF	50V CERAMIC
	C006	QCBB1HK-B20	82PF	50V CERAMIC
	C006	QCBB1HK-B20	82PF	50V CERAMIC
	C006	QCBB1HK-151	150PF	50V CERAMIC
	C007	EET2501-476E	47MF	ELECTRO
	C007	EET2501-476E	47MF	ELECTRO
	C009	QCSB1HK-4R7	4.7PF	50V CERAMIC

△ : SAFETY PARTS

C A P A C I T O R S

ITEM	PART NUMBER	DESCRIPTION	AREA
C010	QCSB1HK-4R7	4.7PF 50V CERAMIC	
C011	QETB1HM-226	22MF 50V ELECTRO	
C012	QETB1HM-226	22MF 50V ELECTRO	
C013	QETB1HM-476	47MF 50V ELECTRO	
C014	QETB1EM-226	22MF 25V ELECTRO	
C015	QFLB1HJ-104	0.1MF 50V MYLAR	
C016	QFLB1HJ-104	0.1MF 50V MYLAR	
C017	QFLB1HJ-104	0.1MF 50V MYLAR	
C018	QFLB1HJ-104	0.1MF 50V MYLAR	
C019	QETB1HM-475	4.7MF 50V ELECTRO	
C020	QETB1EM-226	22MF 25V ELECTRO	
C021	QETB1AM-476	47MF 10V ELECTRO	
C027	QCBB1HK-101	100PF 50V CERAMIC	C
C030	QCBB1HK-331	330PF 50V CERAMIC	C
C031	QFLB1HJ-182	1800PF 50V MYLAR	C
C032	QFLB1HJ-182	1800PF 50V MYLAR	C
C033	QCGB1HK-102	1000PF 50V CERAMIC	C
C034	QCGB1HK-102	1000PF 50V CERAMIC	C
C035	QCBB1HK-471	470PF 50V CERAMIC	C
C036	QCBB1HK-471	470PF 50V CERAMIC	C
C037	QCBB1HK-221	220PF 50V CERAMIC	C
C038	QENS1HM-475	4.7MF 50V NON POLE	
C040	QEKS1HM-224G	0.22MF 50V ELECTRO	
C041	QETB1HM-474	0.47MF 50V ELECTRO	
C042	QCF21HP-102	1000PF 50V CERAMIC	
C043	QCBB1HK-101	100PF 50V CERAMIC	A
C043	QCBB1HK-101	100PF 50V CERAMIC	B
C043	QCGB1HK-102	1000PF 50V CERAMIC	C
C044	QCBB1HK-101	100PF 50V CERAMIC	A
C044	QCGB1HK-102	1000PF 50V CERAMIC	B
C049	QETB1VM-228N	2200MF 35V ELECTRO	
C050	QETB1VM-228N	2200MF 35V ELECTRO	
C051	QFLB2AJ-103	0.01MF 100V MYLAR	A
C051	QFLB2AJ-103	0.01MF 100V MYLAR	B
C051	QFV82AJ-104	0.1MF 100V T.FILM	C
C052	QFV82AJ-104	0.1MF 100V T.FILM	
C053	QFV82AJ-104	0.1MF 100V T.FILM	
C056	QFV82AJ-104	0.1MF 100V T.FILM	
C057	QFLB2AJ-103	0.01MF 100V MYLAR	A
C057	QFLB2AJ-103	0.01MF 100V MYLAR	B
C057	QFV82AJ-104	0.1MF 100V T.FILM	C
C058	QFV82AJ-104	0.1MF 100V T.FILM	
C059	QEZO061-478	4700MF 50V ELECTRO	
C060	QEZO061-478	4700MF 50V ELECTRO	
C061	QCHB1EZ-223	0.022MF 25V CERAMIC	
C062	QETB1EM-476	47MF 25V ELECTRO	
C063	QETB1CM-476	47MF 16V ELECTRO	
C064	QETB1CM-476	47MF 16V ELECTRO	
C065	QCHB1EZ-223	0.022MF 25V CERAMIC	
C066	QETB1CM-476	47MF 16V ELECTRO	
C067	QETB1CM-476	47MF 16V ELECTRO	
C068	QCBB1HK-471	470PF 50V CERAMIC	C
C069	QCVB1CM-103	0.01MF 16V CERAMIC	C
C070	QCHB1EZ-223	0.022MF 25V CERAMIC	
C071	QETB1AM-476	47MF 10V ELECTRO	
C072	QETB1AM-476	47MF 10V ELECTRO	
C076	QCHB1EZ-223	0.022MF 25V CERAMIC	
C077	QETB1CM-476	47MF 16V ELECTRO	
C078	QETB1CM-476	47MF 16V ELECTRO	
C079	QCHB1EZ-223	0.022MF 25V CERAMIC	
C080	QETB1CM-476	47MF 16V ELECTRO	
C081	QETB1CM-476	47MF 16V ELECTRO	
C082	QCHB1EZ-223	0.022MF 25V CERAMIC	
C083	QETB1CM-476	47MF 16V ELECTRO	
C084	QETB1CM-476	47MF 16V ELECTRO	
C085	QETB1JM-227	220MF 63V ELECTRO	
C086	QETB1JM-227	220MF 63V ELECTRO	
C087	QCHB1EZ-223	0.022MF 25V CERAMIC	
C088	QETB1HM-226	22MF 50V ELECTRO	
C089	QETB1HM-226	22MF 50V ELECTRO	
C090	QCHB1EZ-223	0.022MF 25V CERAMIC	
C091	QETB1AM-476	47MF 10V ELECTRO	
C092	QETB1AM-476	47MF 10V ELECTRO	
C093	QETB1AM-476	47MF 10V ELECTRO	
C094	QCHB1EZ-223	0.022MF 25V CERAMIC	
C095	QETB1AM-227	220MF 10V ELECTRO	
C096	QETB1AM-476	47MF 10V ELECTRO	
C097	QCF21HP-473	0.047MF 50V CERAMIC	C
C098	QCF21HP-473	0.047MF 50V CERAMIC	C
C099	QCGB1HK-102	1000PF 50V CERAMIC	A
C099	QCGB1HK-102	1000PF 50V CERAMIC	B
C211	QCS21HJ-181	180PF 50V CERAMIC	
C212	QCS21HJ-181	180PF 50V CERAMIC	
C213	QCY21HK-102	1000PF 50V CERAMIC	
C214	QCY21HK-102	1000PF 50V CERAMIC	
C219	QETB1HM-225	2.2MF 50V ELECTRO	
C220	QETB1HM-225	2.2MF 50V ELECTRO	
C221	QETB1HM-225	2.2MF 50V ELECTRO	
C222	QETB1HM-225	2.2MF 50V ELECTRO	
C223	QCBB1HK-101	100PF 50V CERAMIC	
C224	QCBB1HK-101	100PF 50V CERAMIC	
C225	QETB1AM-107	100MF 10V ELECTRO	
C226	QETB1AM-107	100MF 10V ELECTRO	
C227	QFLB1HJ-822	8200PF 50V MYLAR	

▲ : SAFETY PARTS

C A P A C I T O R S

ITEM	PART NUMBER	DESCRIPTION	AREA
C228	QFLB1HJ-822	8200PF 50V MYLAR	
C231	QETB1CM-107	100MF 16V ELECTRO	
C233	QCS21HJ-101	100PF 50V CERAMIC	
C234	QCS21HJ-101	100PF 50V CERAMIC	
C237	QCS21HJ-471	470PF 50V CERAMIC	
C238	QCS21HJ-471	470PF 50V CERAMIC	
C253	QCY21HK-102	1000PF 50V CERAMIC	
C254	QCY21HK-102	1000PF 50V CERAMIC	
C279	QFN81HJ-473	0.047MF 50V MYLAR	
C280	QFN81HJ-473	0.047MF 50V MYLAR	
C281	QETB1HM-225	2.2MF 50V ELECTRO	
C282	QETB1HM-225	2.2MF 50V ELECTRO	
C283	QCBB1HK-101	100PF 50V CERAMIC	A
C283	QCBB1HK-101	100PF 50V CERAMIC	B
C283	QCBB1HK-221	220PF 50V CERAMIC	C
C284	QCBB1HK-101	100PF 50V CERAMIC	A
C284	QCBB1HK-101	100PF 50V CERAMIC	B
C284	QCBB1HK-221	220PF 50V CERAMIC	C
C285	QCBB1HK-101	100PF 50V CERAMIC	A
C285	QCBB1HK-471	470PF 50V CERAMIC	B
C286	QCBB1HK-101	100PF 50V CERAMIC	A
C286	QCBB1HK-101	100PF 50V CERAMIC	B
C286	QCBB1HK-471	470PF 50V CERAMIC	C
C287	QCY21HK-682	6800PF 50V CERAMIC	
C288	QCY21HK-682	6800PF 50V CERAMIC	
C289	QCY21HK-182	1800PF 50V CERAMIC	
C290	QCY21HK-182	1800PF 50V CERAMIC	
C291	QETB1EM-226	22MF 25V ELECTRO	
C292	QETB1EM-226	22MF 25V ELECTRO	
C293	QETB1HM-225	2.2MF 50V ELECTRO	
C294	QETB1HM-225	2.2MF 50V ELECTRO	
C297	QCBB1HK-221	220PF 50V CERAMIC	C
C298	QCBB1HK-221	220PF 50V CERAMIC	C
C299	QCF21HP-473	0.047MF 50V CERAMIC	C
C300	QCF21HP-473	0.047MF 50V CERAMIC	C
C301	QFLB1HJ-104	0.1MF 50V MYLAR	
C302	QFLB1HJ-104	0.1MF 50V MYLAR	
C305	QETB1HM-225	2.2MF 50V ELECTRO	
C306	QETB1HM-225	2.2MF 50V ELECTRO	
C307	QETB1HM-225	2.2MF 50V ELECTRO	
C308	QETB1HM-225	2.2MF 50V ELECTRO	
C311	QETB1EM-226	22MF 25V ELECTRO	
C312	QETB1EM-226	22MF 25V ELECTRO	
C313	QCSB1HJ-470	47PF 50V CERAMIC	
C314	QCSB1HJ-470	47PF 50V CERAMIC	
C315	QFLB1HJ-682	6800PF 50V MYLAR	
C316	QFLB1HJ-682	6800PF 50V MYLAR	
C317	QFLB1HJ-562	5600PF 50V MYLAR	
C318	QFLB1HJ-562	5600PF 50V MYLAR	
C319	QFLB1HJ-822	8200PF 50V MYLAR	
C320	QFLB1HJ-822	8200PF 50V MYLAR	
C321	QFLB1HJ-122	1200PF 50V MYLAR	
C322	QFLB1HJ-122	1200PF 50V MYLAR	
C323	QFLB1HJ-682	6800PF 50V MYLAR	
C324	QFLB1HJ-682	6800PF 50V MYLAR	
C325	QETB1CM-107	100MF 16V ELECTRO	
C326	QETB1CM-107	100MF 16V ELECTRO	
C335	QCS21HJ-101	100PF 50V CERAMIC	
C336	QCS21HJ-101	100PF 50V CERAMIC	
C337	QETB1EM-106	10MF 25V ELECTRO	
C338	QETB1CM-476	4.7MF 16V ELECTRO	
C339	QETB1HM-105	1MF 50V ELECTRO	
C340	QETB1HM-105	1MF 50V ELECTRO	
C341	QCS21HJ-561	560PF 50V CERAMIC	
C342	QFP81HJ-822	8200PF 50V POLY	
C343	QFLB1HJ-123	0.012MF 50V MYLAR	
C344	QFLB1HJ-222	2200PF 50V MYLAR	
C345	QFLB1HJ-222	2200PF 50V MYLAR	
C346	QFLB1HJ-682	6800PF 50V MYLAR	
C351	QETB1HM-106	10MF 50V ELECTRO	
C355	QCF21HP-473	0.047MF 50V CERAMIC	
C356	QCF21HP-473	0.047MF 50V CERAMIC	
C373	QETB1HM-475	4.7MF 50V ELECTRO	
C374	QETB1HM-475	4.7MF 50V ELECTRO	
C375	QCBB1HK-101	100PF 50V CERAMIC	A
C375	QCBB1HK-101	100PF 50V CERAMIC	B
C375	QCBB1HK-221	220PF 50V CERAMIC	C
C376	QCBB1HK-101	100PF 50V CERAMIC	A
C376	QCBB1HK-221	220PF 50V CERAMIC	C
C381	QEKS1HM-105G	1MF 50V ELECTRO	
C382	QEKS1HM-105G	1MF 50V ELECTRO	
C383	QEKS1EM-475G	4.7MF 25V ELECTRO	
C384	QEKS1EM-475G	4.7MF 25V ELECTRO	
C385	QEKS1HM-105G	1MF 50V ELECTRO	
C386	QEKS1HM-105G	1MF 50V ELECTRO	
C387	QEKS1EM-475G	4.7MF 25V ELECTRO	
C388	QEKS1EM-475G	4.7MF 25V ELECTRO	
C389	QFV81HJ-224	0.22MF 50V T.FILM	
C390	QFV81HJ-224	0.22MF 50V T.FILM	
C391	QETB1HM-475	4.7MF 50V ELECTRO	
C392	QETB1HM-475	4.7MF 50V ELECTRO	
C393	QETB1CM-107	100MF 16V ELECTRO	
C394	QETB1HM-475	4.7MF 50V ELECTRO	

▲ : SAFETY PARTS

CAPACITORS

ITEM	PART NUMBER	DESCRIPTION			AREA
C395	QEKS1HM-105G	1MF	50V	ELECTRO	
C480	QETB1AM-107	100MF	10V	ELECTRO	
C481	QETB1AM-107	100MF	10V	ELECTRO	
C482	QFN81HJ-683	0.068MF	50V	MYLAR	
C483	QFN81HJ-683	0.068MF	50V	MYLAR	
C484	QETB1HM-474	0.47MF	50V	ELECTRO	
C485	QETB1HM-474	0.47MF	50V	ELECTRO	
C490	QCHB1EZ-223	0.022MF	25V	CERAMIC	
C491	QETB1CM-476	4.7MF	16V	ELECTRO	
C492	QETB1CM-476	4.7MF	16V	ELECTRO	
C493	QCSB1HJ-470	47PF	50V	CERAMIC	C
C494	QCSB1HJ-470	47PF	50V	CERAMIC	C
C581	QCBB1HK-561	560PF	50V	CERAMIC	
C583	QEKS1HM-475	4.7MF	50V	ELECTRO	
C584	QEKS1HM-475	4.7MF	50V	ELECTRO	
C589	QFLB1HJ-182	1800PF	50V	MYLAR	C
C590	QFLB1HJ-182	1800PF	50V	MYLAR	C
C595	QCHB1EZ-223	0.022MF	25V	CERAMIC	
C597	QCHB1EZ-223	0.022MF	25V	CERAMIC	
C598	QCHB1EZ-223	0.022MF	25V	CERAMIC	

▲ : SAFETY PARTS

RESISTORS

ITEM	PART NUMBER	DESCRIPTION			AREA
R080	QRD167J-392	3.9K	1/6W	CARBON	
R081	QRD14CJ-8R2S	8.2	1/4W	UNF.CARBON	
R082	QRD14CJ-8R2S	8.2	1/4W	UNF.CARBON	
R083	QRD167J-471	470	1/6W	CARBON	
R085	QRD167J-103	10K	1/6W	CARBON	
R086	QRD167J-103	10K	1/6W	CARBON	
R088	QRD167J-103	10K	1/6W	CARBON	
R089	QRD167J-103	10K	1/6W	CARBON	
R090	QRD167J-471	470	1/6W	CARBON	
R091	QRZ0077-4R7	4.7	1/4W	FUSIBLE	
R092	QRD167J-102	1K	1/6W	CARBON	
R094	QRZ0077-4R7	4.7	1/4W	FUSIBLE	
R095	QRD167J-332	3.3K	1/6W	CARBON	
R096	QRD167J-332	3.3K	1/6W	CARBON	
R097	QRD167J-682	6.8K	1/6W	CARBON	
R098	QRD167J-682	6.8K	1/6W	CARBON	
R207	QRD167J-100	10	1/6W	CARBON	
R208	QRD167J-100	10	1/6W	CARBON	
R209	QRD167J-105	1M	1/6W	CARBON	
R210	QRD167J-105	1M	1/6W	CARBON	
R225	QRD167J-470	47	1/6W	CARBON	
R226	QRD167J-470	47	1/6W	CARBON	
R227	QRD167J-334	330K	1/6W	CARBON	
R228	QRD167J-334	330K	1/6W	CARBON	
R229	QRD167J-432	4.3K	1/6W	CARBON	
R230	QRD167J-432	4.3K	1/6W	CARBON	
R231	QRD167J-272	2.7K	1/6W	CARBON	
R232	QRD167J-272	2.7K	1/6W	CARBON	
R233	QRD167J-272	2.7K	1/6W	CARBON	
R234	QRD167J-272	2.7K	1/6W	CARBON	
R235	QRD167J-223	22K	1/6W	CARBON	
R236	QRD167J-223	22K	1/6W	CARBON	
R237	QRD167J-752	7.5K	1/6W	CARBON	
R238	QRD167J-752	7.5K	1/6W	CARBON	
R239	QRD167J-105	1M	1/6W	CARBON	
R240	QRD167J-105	1M	1/6W	CARBON	
R241	QRD167J-105	1M	1/6W	CARBON	
R242	QRD167J-105	1M	1/6W	CARBON	
R243	QRD167J-471	470	1/6W	CARBON	
R244	QRD167J-472	4.7K	1/6W	CARBON	
R245	QRD167J-472	4.7K	1/6W	CARBON	
R247	QRD167J-102	1K	1/6W	CARBON	
R248	QRD167J-102	1K	1/6W	CARBON	
R254	QRD167J-103	10K	1/6W	CARBON	
R257	QRD167J-133	13K	1/6W	CARBON	
R258	QRD167J-123	12K	1/6W	CARBON	
R259	QRD167J-224	220K	1/6W	CARBON	
R260	QRD167J-394	390K	1/6W	CARBON	
R264	QRD167J-103	10K	1/6W	CARBON	
R267	QRD167J-133	13K	1/6W	CARBON	
R268	QRD167J-123	12K	1/6W	CARBON	
R269	QRD167J-224	220K	1/6W	CARBON	
R270	QRD167J-394	390K	1/6W	CARBON	
R271	QRD167J-103	10K	1/6W	CARBON	
R272	QRD167J-472	4.7K	1/6W	CARBON	
R273	QRD167J-472	4.7K	1/6W	CARBON	
R275	QRD167J-102	1K	1/6W	CARBON	
R276	QRD167J-102	1K	1/6W	CARBON	
R277	QRD167J-103	10K	1/6W	CARBON	
R278	QRD167J-103	10K	1/6W	CARBON	
R279	QRD167J-393	39K	1/6W	CARBON	
R280	QRD167J-393	39K	1/6W	CARBON	
R281	QRD167J-474	470K	1/6W	CARBON	
R282	QRD167J-474	470K	1/6W	CARBON	
R283	QRD167J-393	39K	1/6W	CARBON	
R284	QRD167J-393	39K	1/6W	CARBON	
R285	QRD167J-102	1K	1/6W	CARBON	
R286	QRD167J-102	1K	1/6W	CARBON	
R287	QRD167J-104	100K	1/6W	CARBON	
R288	QRD167J-104	100K	1/6W	CARBON	
R289	QRD167J-104	100K	1/6W	CARBON	
R290	QRD167J-104	100K	1/6W	CARBON	
R291	QRD167J-272	2.7K	1/6W	CARBON	
R292	QRD167J-272	2.7K	1/6W	CARBON	
R293	QRD167J-104	100K	1/6W	CARBON	
R294	QRD167J-104	100K	1/6W	CARBON	
R295	QRD167J-273	27K	1/6W	CARBON	
R296	QRD167J-273	27K	1/6W	CARBON	
R297	QRD167J-433	43K	1/6W	CARBON	
R298	QRD167J-433	43K	1/6W	CARBON	
R301	QRD167J-223	22K	1/6W	CARBON	
R302	QRD167J-223	22K	1/6W	CARBON	
R305	QRD167J-683	68K	1/6W	CARBON	
R306	QRD167J-683	68K	1/6W	CARBON	
R307	QRD167J-153	15K	1/6W	CARBON	
R308	QRD167J-153	15K	1/6W	CARBON	
R309	QRD167J-223	22K	1/6W	CARBON	
R310	QRD167J-223	22K	1/6W	CARBON	
R313	QRD167J-242	2.4K	1/6W	CARBON	
R314	QRD167J-242	2.4K	1/6W	CARBON	
R315	QRD167J-101	100	1/6W	CARBON	
R316	QRD167J-101	100	1/6W	CARBON	
R317	QRD167J-391	390	1/6W	CARBON	
R318	QRD167J-391	390	1/6W	CARBON	
R319	QRD167J-152	1.5K	1/6W	CARBON	

▲ : SAFETY PARTS

▲ : SAFETY PARTS

RESISTORS

RESISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	R320	QRD167J-152	1.5K 1/6W CARBON	
	R321	QRD167J-432	4.3K 1/6W CARBON	
	R322	QRD167J-432	4.3K 1/6W CARBON	
	R323	QRD167J-152	1.5K 1/6W CARBON	
	R324	QRD167J-152	1.5K 1/6W CARBON	
	R325	QRD167J-104	100K 1/6W CARBON	
	R326	QRD167J-104	100K 1/6W CARBON	
	R327	QRD167J-152	1.5K 1/6W CARBON	
	R328	QRD167J-152	1.5K 1/6W CARBON	
	R329	QRD167J-392	3.9K 1/6W CARBON	
	R330	QRD167J-392	3.9K 1/6W CARBON	
	R331	QRD161J-221	220 1/6W CARBON	
	R332	QRD161J-221	220 1/6W CARBON	
	R337	QRD167J-473	47K 1/6W CARBON	
	R338	QRD167J-473	47K 1/6W CARBON	
△	R339	QRD14CJ-5R6S	5.6 1/4W UNF.CARBON	
	R340	QRD167J-472	4.7K 1/6W CARBON	
	R341	QRD167J-104	100K 1/6W CARBON	
	R342	QRD167J-332	3.3K 1/6W CARBON	
	R343	QRD167J-201	200 1/6W CARBON	
△	R344	QRD167J-201	200 1/6W CARBON	
△	R345	QRD20077-100	10 1/4W FUSIBLE	
	R351	QRD167J-203	20K 1/6W CARBON	
	R352	QRD167J-203	20K 1/6W CARBON	
	R353	QRD167J-392	3.9K 1/6W CARBON	
	R354	QRD167J-392	3.9K 1/6W CARBON	
	R355	QRD167J-561	560 1/6W CARBON	
	R356	QRD167J-561	560 1/6W CARBON	
	R357	QRD167J-223	22K 1/6W CARBON	
	R358	QRD167J-223	22K 1/6W CARBON	
	R359	QRD167J-392	3.9K 1/6W CARBON	
	R360	QRD167J-392	3.9K 1/6W CARBON	
	R361	QRD167J-473	47K 1/6W CARBON	
	R362	QRD167J-473	47K 1/6W CARBON	
	R363	QRD167J-153	15K 1/6W CARBON	
	R364	QRD167J-153	15K 1/6W CARBON	
	R365	QRD167J-472	4.7K 1/6W CARBON	
	R366	QRD167J-472	4.7K 1/6W CARBON	
	R371	QRD167J-103	10K 1/6W CARBON	
	R372	QRD167J-103	10K 1/6W CARBON	
	R373	QRD167J-243	24K 1/6W CARBON	
	R374	QRD167J-102	1K 1/6W CARBON	
	R375	QRD167J-222	2.2K 1/6W CARBON	
	R376	QRD167J-222	2.2K 1/6W CARBON	
	R381	QRD167J-153	15K 1/6W CARBON	
	R382	QRD167J-153	15K 1/6W CARBON	
	R383	QRD167J-822	8.2K 1/6W CARBON	
△	R384	QRD167J-822	8.2K 1/6W CARBON	
△	R385	QRD20077-220	22 1/4W FUSIBLE	
	R386	QRD167J-183	18K 1/6W CARBON	
	R387	QRD167J-103	10K 1/6W CARBON	
	R389	QRD167J-562	5.6K 1/6W CARBON	A
	R389	QRD167J-562	5.6K 1/6W CARBON	B
	R389	QRD167J-392	3.9K 1/6W CARBON	C
	R390	QRD167J-562	5.6K 1/6W CARBON	A
	R390	QRD167J-562	5.6K 1/6W CARBON	B
	R390	QRD167J-392	3.9K 1/6W CARBON	C
	R391	QRD167J-103	10K 1/6W CARBON	
	R393	QRD167J-513	51K 1/6W CARBON	
	R394	QRD167J-513	51K 1/6W CARBON	
	R395	QRD167J-103	10K 1/6W CARBON	
	R396	QRD167J-103	10K 1/6W CARBON	
	R467	QRD167J-222	2.2K 1/6W CARBON	
	R468	QRD167J-222	2.2K 1/6W CARBON	
	R480	QRD167J-331	330 1/6W CARBON	
	R481	QRD167J-331	330 1/6W CARBON	
	R482	QRD167J-474	470K 1/6W CARBON	
	R483	QRD167J-474	470K 1/6W CARBON	
	R490	QRD167J-472	4.7K 1/6W CARBON	
	R491	QRD167J-472	4.7K 1/6W CARBON	
	R492	QRD167J-472	4.7K 1/6W CARBON	
	R496	QRD167J-472	4.7K 1/6W CARBON	
	R497	QRD167J-472	4.7K 1/6W CARBON	
	R498	QRD167J-822	8.2K 1/6W CARBON	
	R499	QRD167J-822	8.2K 1/6W CARBON	
	R581	QRD167J-102	1K 1/6W CARBON	
	R582	QRD167J-102	1K 1/6W CARBON	
	R583	QRD167J-103	10K 1/6W CARBON	
	R584	QRD167J-103	10K 1/6W CARBON	
	R585	QRD167J-103	10K 1/6W CARBON	
	R586	QRD167J-103	10K 1/6W CARBON	
	R587	QRD167J-822	8.2K 1/6W CARBON	
	R588	QRD167J-822	8.2K 1/6W CARBON	
	R589	QRD167J-472	4.7K 1/6W CARBON	
	R590	QRD167J-472	4.7K 1/6W CARBON	
	R591	QRD161J-221	220 1/6W CARBON	
	R999	QRD167J-103	10K 1/6W CARBON	
	VR203	QVPA601-204A	200K VARIABLE	
	VR204	QVPA601-204A	200K VARIABLE	
	VR205	QVPA601-204A	200K VARIABLE	
	VR206	QVPA601-204A	200K VARIABLE	
	VR221	QVPA601-201A	200 VARIABLE	
	VR222	QVPA601-201A	200 VARIABLE	
	VR223	QVPA601-201A	200 VARIABLE	
	VR224	QVPA601-201A	200 VARIABLE	

△ : SAFETY PARTS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	VR255	QVPA601-502A	5K VARIABLE	
	VR256	QVPA601-502A	5K VARIABLE	
	VR265	QVPA601-502A	5K VARIABLE	
	VR266	QVPA601-502A	5K VARIABLE	
	VR335	QVPA601-503A	50K VARIABLE	
	VR336	QVPA601-503A	50K VARIABLE	
	VR367	QVPA601-503A	50K VARIABLE	
	VR368	QVPA601-503A	50K VARIABLE	
	VR490	QVDB918-E15H	100K VARIABLE	

△ : SAFETY PARTS

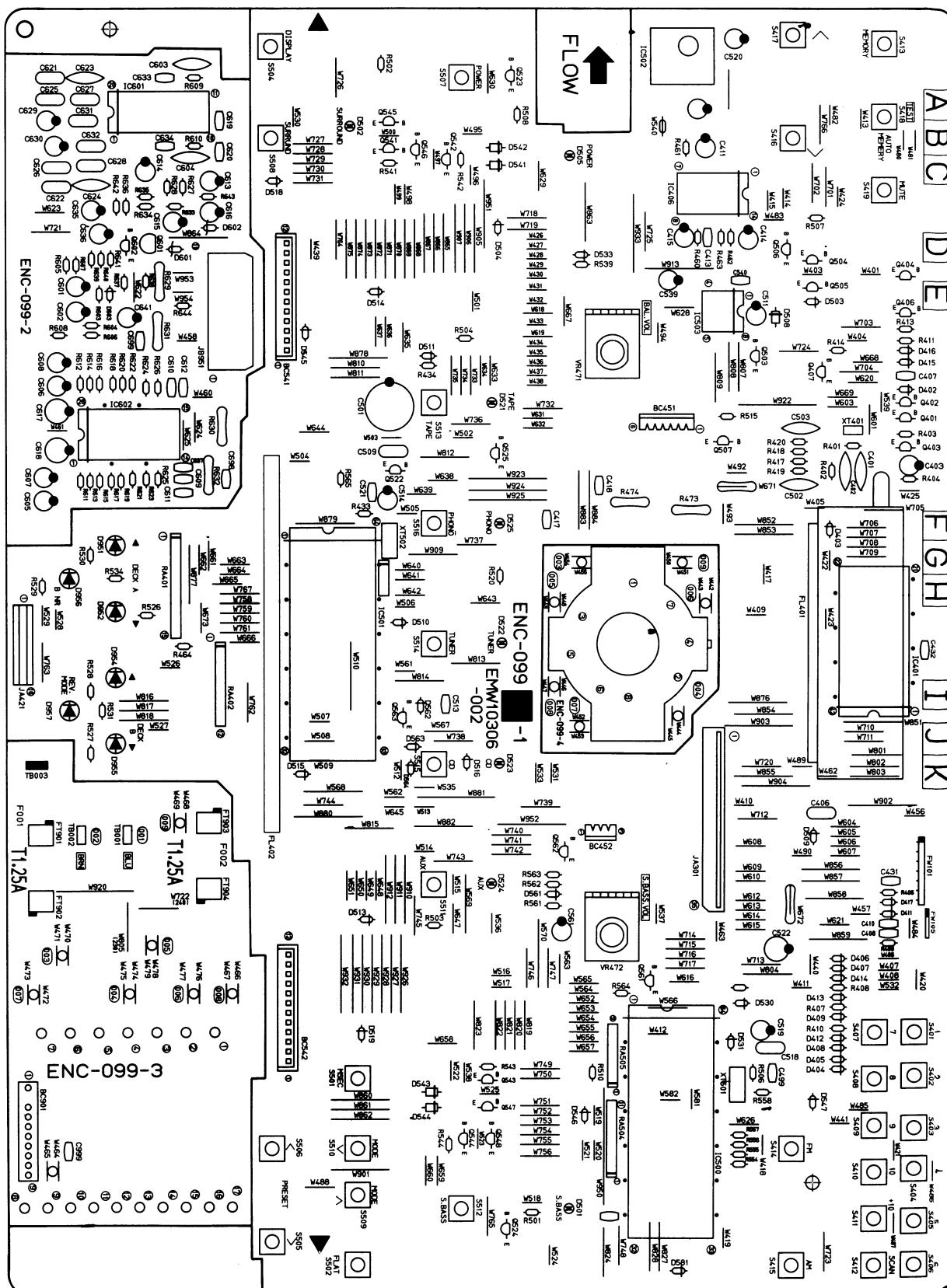
OTHERS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	J001	EMB90YY-401A	SPEAKER TERMINAL	
△	J004	QMA1221-009	DC JACK	
	J015	EMV7122-005	CONNECTOR(5PIN)	
	J017	QMS6312-024	HEADPHONE JACK	
	J021	EMV5109-003A	PLUG ASSY(3PIN)	
	J041	EMV5109-005A	PLUG ASSY	
	J251	EMV7122-004	CONNECTOR(4PIN)	
	J261	EMV7122-004	CONNECTOR(4PIN)	
	J281	EMV00TV-414AJ2	4P PIN JACK	
	J451	EMV5109-006A	PLUG ASSY(6PIN)	
	J452	EMV5109-003A	PLUG ASSY(3PIN)	
	J901	EMV5133-009K	PLUG ASSY(9PIN)	
	K051	ENZ8101-011	FERRITE BEADS	C
	K052	ENZ8101-011	FERRITE BEADS	C
	K281	ENZ8101-011	FERRITE BEADS	C
	L001	EQL0001-R45	INDUCTOR	
	L002	EQL0001-R45	INDUCTOR	
	L003	EQL4007-101	INDUCTOR	
	L221	EQL2106-223	INDUCTOR	
	L222	EQL2106-223	INDUCTOR	
	L223	EQL4007-101	INDUCTOR	
	L224	EQL4007-101	INDUCTOR	
	L301	EQL2126-562	INDUCTOR	
	L302	EQL2126-562	INDUCTOR	
	L335	ENZ6002-010	OSCILLATOR COIL	
	P201	EMV5133-003K	PLUG ASSY(3PIN)	
	P202	EMV5133-005K	PLUG ASSY(5PIN)	
	S335	QSS7A12-E01	SLIDE SWITCH(BEATCUT)	
	S951	ESP0001-023M	TACT SWITCH(A◀)	
	S952	ESP0001-023M	TACT SWITCH(A◀)	
	S953	ESP0001-023M	TACT SWITCH(A■)	
	S954	ESP0001-023M	TACT SWITCH(A▶)	
	S955	ESP0001-023M	TACT SWITCH(A▶)	
	S956	ESP0001-023M	TACT SWITCH(A▶B)	
	S957	ESP0001-023M	TACT SWITCH(B○)	
	S958	ESP0001-023M	TACT SWITCH(B■)	
	S959	ESP0001-023M	TACT SWITCH(B◀)	
	S960	ESP0001-023M	TACT SWITCH(B◀)	
	S961	ESP0001-023M	TACT SWITCH(B▶)	
	S962	ESP0001-023M	TACT SWITCH(B▶)	
	S963	ESP0001-023M	TACT SWITCH(B▶)	
	S964	ESP0001-023M	TACT SWITCH(NR)	
	S965	ESP0001-023M	TACT SWITCH(CDD.REC)	
	S966	ESP0001-023M	TACT SWITCH(REV.MODE)	
	BC021	EWS293-0112	SOCKET WIRE(3PIN)	
	BC041	EWS295-0720	SOCKET WIRE(5PIN)	
	BK201	E406519-001	P.W.BOARD BRACKET	
	EP001	E70859-001	EARTH PLATE	
	FS391	E3400-431	FELT SPACER	
	FT051	VMZ0087-001	FUSE CLIP	
	FT052	VMZ0087-001	FUSE CLIP	
	FT053	VMZ0087-001	FUSE CLIP	
	FT054	VMZ0087-001	FUSE CLIP	
	FW015	EWR35B-25LST	FLAT WIRE(5PIN)	
	JA103	EMV5125-005	PLUG ASSY(5PIN)	
	JA951	EMV5140-011	PLUG ASSY(11PIN)	
	JB109	ENV7127-013	CONNECTOR(13PIN)	
	JB301	EMV7123-035	CONNECTOR(35PIN)	
	JB421	EMV7124-010	CONNECTOR(10PIN)	
	RY001	ESK7D24-2120	RELAY	

△ : SAFETY PARTS

■ ENC-099 □ Display & Control PC Board Ass'y

Note: ENC-099 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENC-099 [A]	Universal Type
ENC-099 [C] BS	the U.K.
ENC-099 [D]	Scandinavia Continental Europe
ENC-099 [E]	Germany

TRANSISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
Q401	DTC144ES	SILICON	ROHM	
Q402	DTC114YS	SILICON	ROHM	
Q403	DTC144ES	SILICON	ROHM	
Q404	DTC114YS	SILICON	ROHM	
Q406	DTC144ES	SILICON	ROHM	
Q407	2SC1740S(R,S)	SILICON	ROHM	
Q503	DTC114YS	SILICON	ROHM	
Q504	DTC144ES	SILICON	ROHM	
Q505	DTC144ES	SILICON	ROHM	
Q506	DTC144ES	SILICON	ROHM	
Q507	DTA114ES	SILICON	ROHM	
Q522	DTC114YS	SILICON	ROHM	
Q523	DTA114ES	SILICON	ROHM	
Q524	DTA114ES	SILICON	ROHM	
Q525	DTA114ES	SILICON	ROHM	
Q541	2SC3377(Q,R)	SILICON	ROHM	
Q542	2SC3377(Q,R)	SILICON	ROHM	
Q543	2SC3377(Q,R)	SILICON	ROHM	
Q544	2SC3377(Q,R)	SILICON	ROHM	
Q545	DTC114YS	SILICON	ROHM	
Q546	DTC114YS	SILICON	ROHM	
Q547	DTC114YS	SILICON	ROHM	
Q548	DTC114YS	SILICON	ROHM	
Q601	2SK301(P,Q)	F.E.T	MATSUSHITA	
Q602	2SC1740S(R,S)	SILICON	ROHM	

△ : SAFETY PARTS

I. C. S.

△	ITEM	PART NUMBER	DESCRIPTION	AREA
IC401	LC6514B-4245	I.C.	SANYO	
IC406	XR1097CP	I.C.	EXAR JAPAN	
IC500	HD614081SD59	I.C.		
IC501	MN171202JHD	I.C.	MATSUSHITA	
IC502	SPS-420-1	I.C.	SANYO	
IC503	LB1639-CV	I.C.	SANYO	
IC601	M5243P12	I.C.	MITSUBISHI	
IC602	TC9163N	I.C.	TOSHIBA	

△ : SAFETY PARTS

DIODES

△	ITEM	PART NUMBER	DESCRIPTION	AREA
D402	ISS133	SILICON	ROHM	
D403	ISS133	SILICON	ROHM	
D404	ISS133	SILICON	ROHM	
D405	ISS133	SILICON	ROHM	
D406	ISS133	SILICON	ROHM	
D407	ISS133	SILICON	ROHM	
D408	ISS133	SILICON	ROHM	
D409	ISS133	SILICON	ROHM	A
D411	ISS133	SILICON	ROHM	
D412	ISS133	SILICON	ROHM	CBS
D412	ISS133	SILICON	ROHM	D
D414	ISS133	SILICON	ROHM	E
D415	ISS133	SILICON	ROHM	
D416	ISS133	SILICON	ROHM	
D417	MTZ5.6JC	ZENER	ROHM	
D501	SLR-34DC3F	L.E.D.	ROHM	
D502	SLR-34DC3F	L.E.D.	ROHM	
D503	ISS133	SILICON	ROHM	
D504	ISS133	SILICON	ROHM	
D505	SLR-34VC3F	L.E.D.	ROHM	A
D505	SLA-580LT3F	L.E.D.	ROHM	CBS
D505	SLR-34VC3F	L.E.D.	ROHM	D
D505	SLR-34VC3F	L.E.D.	ROHM	E
D508	1SR139-200	SILICON	ROHM	
D509	ISS133	SILICON	ROHM	
D510	ISS133	SILICON	ROHM	
D511	ISS133	SILICON	ROHM	
D513	ISS133	SILICON	ROHM	
D514	ISS133	SILICON	ROHM	

△ : SAFETY PARTS

DIODES

△	ITEM	PART NUMBER	DESCRIPTION	AREA
D515	ISS133	SILICON	ROHM	
D516	ISS133	SILICON	ROHM	
D518	ISS133	SILICON	ROHM	
D519	ISS133	SILICON	ROHM	
D521	SLR-34DC3F	L.E.D.	ROHM	
D522	SLR-34DC3F	L.E.D.	ROHM	
D523	SLR-34DC3F	L.E.D.	ROHM	
D524	SLR-34DC3F	L.E.D.	ROHM	
D525	SLR-34DC3F	L.E.D.	ROHM	
D530	ISS133	SILICON	ROHM	
D531	ISS133	SILICON	ROHM	
D533	ISS133	SILICON	ROHM	
D541	1SR139-200	SILICON	ROHM	
D542	1SR139-200	SILICON	ROHM	
D543	1SR139-200	SILICON	ROHM	
D544	1SR139-200	SILICON	ROHM	
D545	ISS133	SILICON	ROHM	
D546	ISS133	SILICON	ROHM	
D547	ISS133	SILICON	ROHM	
D581	ISS133	SILICON	ROHM	
D601	MTZ6.8JC	ZENER	ROHM	
D602	MTZ6.8JC	ZENER	ROHM	
D603	ISS133	SILICON	ROHM	
D951	SLR-34MC50F124	L.E.D.	ROHM	
D952	SLR-34MC50F124	L.E.D.	ROHM	
D954	SLR-34MC50F124	L.E.D.	ROHM	
D955	SLR-34MC50F124	L.E.D.	ROHM	
D956	SLR-34MC50F124	L.E.D.	ROHM	
D957	SLR-34DC50F124	L.E.D.	ROHM	

△ : SAFETY PARTS

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
C401	QCS21HJ-101	100PF	50V CERAMIC	
C402	QCS21HJ-101	100PF	50V CERAMIC	
C403	QEK51HM-105G	1MF	50V ELECTRO	
C406	QCZ0202-155	1.5MF	25V CERAMIC	
C407	QCVB1CM-103	0.01MF	16V CERAMIC	
C408	QCBB1HK-221	220PF	50V CERAMIC	
C410	QCBB1HK-221	220PF	50V CERAMIC	A
C411	QER51CM-476	47MF	16V ELECTRO	
C413	QCBG1HK-102	1000PF	50V CERAMIC	
C414	QEKS1AM-227	220MF	10V ELECTRO	
C415	QEKS1AM-227	220MF	10V ELECTRO	
C417	QCBG1HK-102	1000PF	50V CERAMIC	
C418	QCBG1HK-102	1000PF	50V CERAMIC	
C419	QETB1HM-226	22MF	50V ELECTRO	
C431	QCBB1HK-101	100PF	50V CERAMIC	
C432	QCBB1HK-101	100PF	50V CERAMIC	
C499	QCVB1CM-103	0.01MF	16V CERAMIC	
C501	QETB0JM-108	1000MF	6.3V ELECTRO	
C502	QCS21HJ-121	120PF	50V CERAMIC	
C503	QCS21HJ-121	120PF	50V CERAMIC	
C509	QCZ0202-155	1.5MF	25V CERAMIC	
C511	QEKS0JM-476	47MF	6.3V ELECTRO	
C513	QCVB1CM-103	0.01MF	16V CERAMIC	
C514	QETB1HM-225	2.2MF	50V ELECTRO	
C518	QCZ0202-155	1.5MF	25V CERAMIC	
C519	QEKS1CM-226	22MF	16V ELECTRO	
C520	QEKS0JM-476	47MF	6.3V ELECTRO	
C521	QCVB1CM-103	0.01MF	16V CERAMIC	
C522	QEKS0JM-476	47MF	6.3V ELECTRO	
C539	QEKS1HM-474G	0.47MF	50V ELECTRO	
C540	QCBB1HK-101	100PF	50V CERAMIC	
C601	QETB1HM-475	4.7MF	50V ELECTRO	
C602	QETB1HM-475	4.7MF	50V ELECTRO	
C603	QCS21HJ-101	100PF	50V CERAMIC	
C604	QCS21HJ-101	100PF	50V CERAMIC	
C605	QETB1EM-476	47MF	25V ELECTRO	
C606	QETB1EM-476	47MF	25V ELECTRO	
C607	QETB1EM-476	47MF	25V ELECTRO	
C608	QETB1EM-476	47MF	25V ELECTRO	
C609	QCSB1HJ-100	10PF	50V CERAMIC	
C610	QCSB1HJ-100	10PF	50V CERAMIC	
C611	QCSB1HJ-100	10PF	50V CERAMIC	
C612	QCSB1HJ-100	10PF	50V CERAMIC	
C613	QETB1HM-475	4.7MF	50V ELECTRO	
C614	QETB1HM-475	4.7MF	50V ELECTRO	
C615	QETB1EM-226	22MF	25V ELECTRO	
C616	QETB1EM-226	22MF	25V ELECTRO	
C617	QETB1CM-476	47MF	16V ELECTRO	
C618	QETB1CM-476	47MF	16V ELECTRO	
C619	QCHB1EZ-223	0.022MF	25V CERAMIC	
C620	QCHB1EZ-223	0.022MF	25V CERAMIC	
C621	QFLB1HJ-272	2700PF	50V MYLAR	
C622	QFLB1HJ-272	2700PF	50V MYLAR	
C623	QCS21HJ-471	470PF	50V CERAMIC	
C624	QCS21HJ-471	470PF	50V CERAMIC	
C625	QFV81HJ-473	0.047MF	50V T.FILM	
C626	QFV81HJ-473	0.047MF	50V T.FILM	
C627	QFLB1HJ-822	8200PF	50V MYLAR	
C628	QFLB1HJ-822	8200PF	50V MYLAR	
C629	QER51HM-684	0.68MF	50V ELECTRO	
C630	QER51HM-684	0.68MF	50V ELECTRO	

△ : SAFETY PARTS

CAPACITORS

ITEM	PART NUMBER	DESCRIPTION	AREA
C631	QFV81HJ-154	0.15MF 50V T.FILM	
C632	QFV81HJ-154	0.15MF 50V T.FILM	
C633	QCSB1HJ-470	47PF 50V CERAMIC	
C634	QCSB1HJ-470	47PF 50V CERAMIC	
C635	GETB1HM-105	1MF 50V ELECTRO	
C636	GETB1HM-474	0.47MF 50V ELECTRO	
C637	QCBB1HK-561	560PF 50V CERAMIC	
C641	GETB1HM-105	1MF 50V ELECTRO	
C698	QCGB1HK-102	1000PF 50V CERAMIC	
C699	QCGB1HK-102	1000PF 50V CERAMIC	

▲ : SAFETY PARTS

RESISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
R628	QRD167J-104	100K 1/6W CARBON	
R629	QRZ0077-331	330 1/4W FUSIBLE	
R630	QRZ0077-331	330 1/4W FUSIBLE	
R631	QRZ0077-680	68 1/4W FUSIBLE	
R632	QRZ0077-680	68 1/4W FUSIBLE	
R633	QRD167J-224	220K 1/6W CARBON	
R634	QRD167J-224	220K 1/6W CARBON	
R635	QRD167J-224	220K 1/6W CARBON	
R636	QRD167J-562	5.6K 1/6W CARBON	
R637	QRD167J-562	5.6K 1/6W CARBON	
R638	QRD167J-471	470 1/6W CARBON	
R639	QRD167J-473	47K 1/6W CARBON	
R640	QRD167J-473	47K 1/6W CARBON	
R641	QRD167J-103	10K 1/6W CARBON	
R642	QRD167J-562	5.6K 1/6W CARBON	
R643	QRD167J-102	1K 1/6W CARBON	
R644	QRD167J-102	1K 1/6W CARBON	
RA403	QRB049J-473	47K 1/10W R.NETWORK	
RA504	QRB109J-223	22K 1/10W R.NETWORK	
RA505	QRB089J-223	22K 1/10W R.NETWORK	
VR471	QVJA84W-E15C	100K VARIABLE	
VR472	QVJB84A-E15C	100K VARIABLE	

▲ : SAFETY PARTS

RESISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
R401	QRD167J-105	1M 1/6W CARBON	
R402	QRD167J-152	1.5K 1/6W CARBON	
R403	QRD167J-392	3.9K 1/6W CARBON	
R404	QRD167J-223	22K 1/6W CARBON	
R406	QRD167J-472	4.7K 1/6W CARBON	
R407	QRD167J-472	4.7K 1/6W CARBON	
R408	QRD167J-472	4.7K 1/6W CARBON	
R409	QRD167J-472	4.7K 1/6W CARBON	
R410	QRD167J-472	4.7K 1/6W CARBON	
R411	QRD167J-104	100K 1/6W CARBON	
R413	QRD167J-472	4.7K 1/6W CARBON	
R414	QRD167J-472	4.7K 1/6W CARBON	
R417	QRD167J-510	51 1/6W CARBON	
R418	QRD167J-470	47 1/6W CARBON	
R419	QRD167J-510	51 1/6W CARBON	
R420	QRD167J-470	47 1/6W CARBON	
R433	QRD167J-103	10K 1/6W CARBON	
R434	QRD167J-104	100K 1/6W CARBON	
R460	QRD167J-223	22K 1/6W CARBON	
R461	QRD167J-223	22K 1/6W CARBON	
R462	QRD167J-563	56K 1/6W CARBON	
R463	QRD167J-152	1.5K 1/6W CARBON	
R464	QRD167J-104	100K 1/6W CARBON	
R473	QRD14CJ-8R2S	8.2 1/4W UNF.CARBON	
R474	QRD14CJ-100S	10 1/4W UNF.CARBON	
R501	QRD167J-271	270 1/6W CARBON	
R502	QRD167J-271	270 1/6W CARBON	
R503	QRD167J-271	270 1/6W CARBON	
R504	QRD167J-271	270 1/6W CARBON	
R506	QRD167J-105	1M 1/6W CARBON	
R507	QRD167J-103	10K 1/6W CARBON	
R508	QRD167J-271	270 1/6W CARBON	A
R508	QRD167J-391	390 1/6W CARBON	CBS
R508	QRD167J-271	270 1/6W CARBON	D
R508	QRD167J-271	270 1/6W CARBON	E
R510	QRD167J-223	22K 1/6W CARBON	
R515	QRD167J-473	47K 1/6W CARBON	
R520	QRD167J-271	270 1/6W CARBON	
R526	QRD167J-181	180 1/6W CARBON	
R527	QRD167J-181	180 1/6W CARBON	
R528	QRD167J-181	180 1/6W CARBON	
R529	QRD167J-391	390 1/6W CARBON	
R530	QRD167J-181	180 1/6W CARBON	
R531	QRD167J-181	180 1/6W CARBON	
R534	QRD167J-181	180 1/6W CARBON	
R539	QRD167J-105	1M 1/6W CARBON	
R541	QRD167J-102	1K 1/6W CARBON	
R542	QRD167J-102	1K 1/6W CARBON	
R543	QRD167J-102	1K 1/6W CARBON	
R544	QRD167J-102	1K 1/6W CARBON	
R554	QRD167J-223	22K 1/6W CARBON	
R555	QRD167J-223	22K 1/6W CARBON	
R556	QRD167J-223	22K 1/6W CARBON	
R557	QRD167J-223	22K 1/6W CARBON	
R558	QRD167J-223	22K 1/6W CARBON	
R603	QRD167J-104	100K 1/6W CARBON	
R604	QRD167J-104	100K 1/6W CARBON	
R605	QRD167J-104	100K 1/6W CARBON	
R606	QRD167J-104	100K 1/6W CARBON	
R607	QRD167J-103	10K 1/6W CARBON	
R608	QRD167J-103	10K 1/6W CARBON	
R609	QRD167J-103	10K 1/6W CARBON	
R610	QRD167J-103	10K 1/6W CARBON	
R611	QRD167J-303	30K 1/6W CARBON	
R612	QRD167J-303	30K 1/6W CARBON	
R613	QRD167J-123	12K 1/6W CARBON	
R614	QRD167J-123	12K 1/6W CARBON	
R615	QRD167J-472	4.7K 1/6W CARBON	
R616	QRD167J-472	4.7K 1/6W CARBON	
R617	QRD167J-183	18K 1/6W CARBON	
R618	QRD167J-183	18K 1/6W CARBON	
R619	QRD167J-912	9.1K 1/6W CARBON	
R620	QRD167J-912	9.1K 1/6W CARBON	
R621	QRD167J-243	24K 1/6W CARBON	
R622	QRD167J-243	24K 1/6W CARBON	
R623	QRD167J-562	5.6K 1/6W CARBON	
R624	QRD167J-562	5.6K 1/6W CARBON	
R625	QRD167J-333	33K 1/6W CARBON	
R626	QRD167J-333	33K 1/6W CARBON	
R627	QRD167J-104	100K 1/6W CARBON	

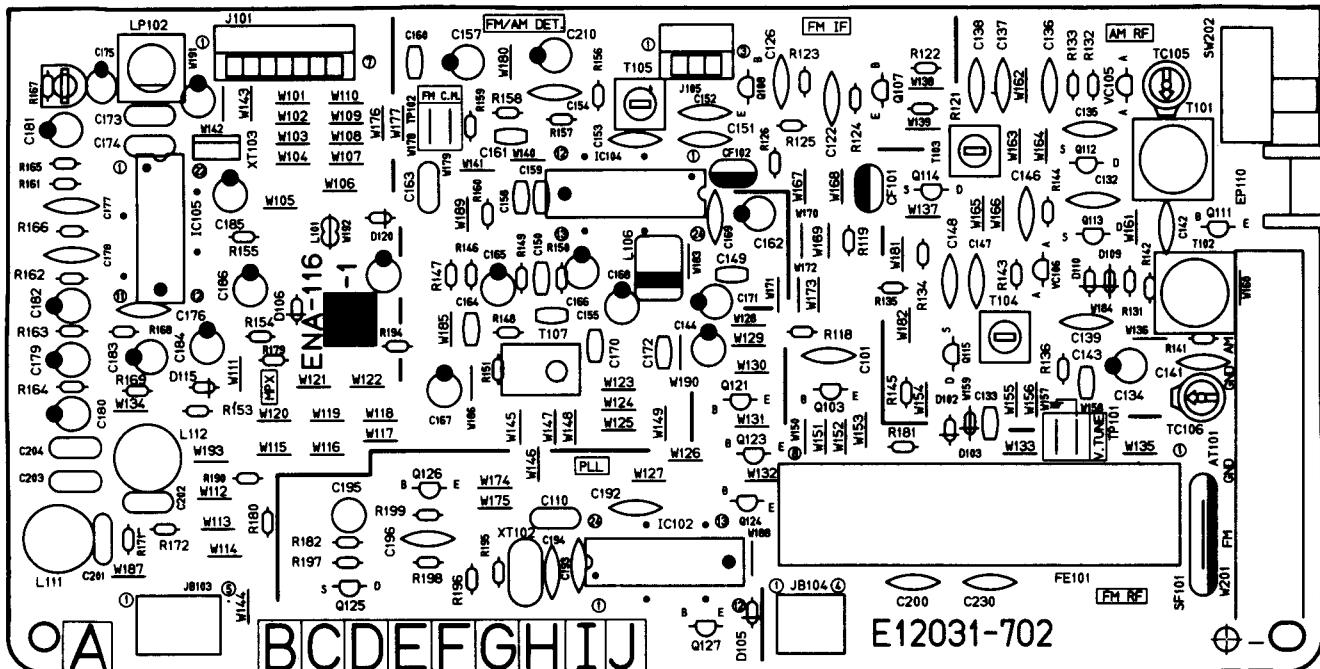
▲ : SAFETY PARTS

ITEM	PART NUMBER	DESCRIPTION	AREA
	E3400-431	FELT SPACER	
	E406779-001	SPACER	A
S401	E67132-T2R5	FUSE LABEL	A
S402	ESP0001-023M	TACT SWITCH(1)	
S403	ESP0001-023M	TACT SWITCH(2)	
S404	ESP0001-023M	TACT SWITCH(3)	
S405	ESP0001-023M	TACT SWITCH(4)	
S406	ESP0001-023M	TACT SWITCH(5)	
S407	ESP0001-023M	TACT SWITCH(6)	
S408	ESP0001-023M	TACT SWITCH(7)	
S409	ESP0001-023M	TACT SWITCH(8)	
S410	ESP0001-023M	TACT SWITCH(9)	
S411	ESP0001-023M	TACT SWITCH(10)	
S412	ESP0001-023M	TACT SWITCH(PRESETSCAN)	
S413	ESP0001-023M	TACT SWITCH(MEMORY)	
S414	ESP0001-023M	TACT SWITCH(FM)	
S415	ESP0001-023M	TACT SWITCH(AM)	
S416	ESP0001-023M	TACT SWITCH(UP)	
S417	ESP0001-023M	TACT SWITCH(DOWN)	
S418	ESP0001-023M	TACT SWITCH(AUTO MEMORY)	
S419	ESP0001-023M	TACT SWITCH(FM MODE)	
S501	ESP0001-023M	TACT SWITCH(MSEC)	
S502	ESP0001-023M	TACT SWITCH(FLAT)	
S504	ESP0001-023M	TACT SWITCH(DISPLAY)	
S505	ESP0001-023M	TACT SWITCH(PATTERN ▶)	
S506	ESP0001-023M	TACT SWITCH(PATTERN ▷)	
S507	ESP0001-023M	TACT SWITCH(POWER)	
S508	ESP0001-023M	TACT SWITCH(SURROUND)	
S509	ESP0001-023M	TACT SWITCH(MODE ▲)	
S510	ESP0001-023M	TACT SWITCH(MODE ▼)	
S511	ESP0001-023M	TACT SWITCH(AUX)	
S512	ESP0001-023M	TACT SWITCH(SUPERBASS)	
S513	ESP0001-023M	TACT SWITCH(TAPE ▲)	
S514	ESP0001-023M	TACT SWITCH(TUNER ▷)	
S515	ESP0001-023M	TACT SWITCH(CD)	
S516	ESP0001-023M	TACT SWITCH(PHONO)	
BC451	EWS296-0912	SOCKET WIRE(3PIN)	
BC452	EWS293-0112	SOCKET WIRE	
BC541	EWS208-006	SOCKET WIRE(12PIN)	
BC542	EWS208-007	SOCKET WIRE(22PIN)	
BC901	EWS249-009	SOCKET WIRE	
BK401	E75817-221SS	FL HOLDER	
BK402	E306951-221SS	FL DISPLAY HOLDER	
FL401	ELU0001-118	FL TUBE	
FL402	ELU0001-146	FL TUBE	
FS401	E3400-449	FELT SPACER	
FS402	E3400-449	FELT SPACER	
FT901	VM20087-001	FUSE CLIP	
FT902	VM20087-001	FUSE CLIP	
FT903	VM20087-001	FUSE CLIP	A
FT904	VM20087-001	FUSE CLIP	A
FW101	EWR378-25LST	FLAT WIRE(7PIN)	
FW105	EWR338-30LST	FLAT WIRE(3PIN)	A
JA301	EMV7123-035	CONNECTOR(3PIN)	
JA421	ENV5123-A074	PLUG ASSY(10PIN)	
JB951	EMV7140-L11R	CONNECTOR(11PIN)	
RS001	QSR0085-018	VOLTAGE SELECTOR	
TB001	E65508-002	TAB	
TB002	E65508-002	TAB	
TB003	EMZ4001-001	TAB	
X401	ECX0001-000KS	RESONATOR	
XT501	ECX0004-194KM	RESONATOR	
XT502	ECX0060-000EM	RESONATOR	

▲ : SAFETY PARTS

■ENA-116 [G] Tuner PC Board Ass'y (Only for Universal Type)

Note : ENA-116 □ varies according to the areas employed. See note (1) when placing an order.



TRANSISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q103	2SC461(B,C)	SILICON HITACHI	
	Q107	2SC535(B,C)	SILICON HITACHI	
	Q108	2SC461(B,C)	SILICON HITACHI	
	Q112	2SK301(Q,R)	F.E.T MATSUSHITA	
	Q123	DTA124ES	SILICON	
	Q124	DTA124ES	SILICON	
	Q125	2SK301(Q2)	F.E.T MATSUSHITA	
	Q126	2SC458(D)	SILICON HITACHI	
	Q127	DTC144ES	SILICON ROHM	

△ : SAFETY PARTS

I. C. S.

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC102	LC7218	I.C. SANYO	
	IC104	LA1266A	I.C. SANYO	
	IC105	LA3401	I.C. SANYO	

△ : SAFETY PARTS

DIODES

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	D105	ISS133	SILICON ROHM	
	D106	ISS133	SILICON ROHM	
	D115	ISS133	SILICON ROHM	
	D120	ISS133	SILICON ROHM	
	VC105	SVC342(L)	VARICAP SANYO	

△ : SAFETY PARTS

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	C101	QCF21HP-223	0.022MF 50V CERAMIC	
	C110	QCZ0202-155	1.5MF 25V CERAMIC	
	C122	QCF21HP-223	0.022MF 50V CERAMIC	
	C126	QCF21HP-223	0.022MF 50V CERAMIC	
	C132	QCS21HJ-561	560PF 50V CERAMIC	
	C133	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C134	QETB1EM-106	10MF 25V ELECTRO	
	C135	QCC21EM-223	0.022MF 25V CERAMIC	
	C136	QCT26CH-180	18PF 50V CERAMIC	
	C137	QCT26CH-221	220PF 50V CERAMIC	

△ : SAFETY PARTS

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	C138	QCT26CH-241	240PF 50V CERAMIC	
	C149	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C150	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C151	QCF21HP-223	0.022MF 50V CERAMIC	
	C152	QCF21HP-223	0.022MF 50V CERAMIC	
	C153	QCC21EM-223	0.022MF 25V CERAMIC	
	C154	QCF21HP-223	0.022MF 50V CERAMIC	
	C155	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C157	QETB1HM-474	0.47MF 50V ELECTRO	
	C158	QCBB1HK-101	100PF 50V CERAMIC	
	C159	QCBB1HK-101	100PF 50V CERAMIC	
	C160	QCBB1HK-221	220PF 50V CERAMIC	
	C161	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C162	QETB1EM-106	10MF 25V ELECTRO	
	C163	QCY21HK-102	1000PF 50V CERAMIC	
	C164	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C165	QETB1HM-474	0.47MF 50V ELECTRO	
	C166	QETB1HM-225	2.2MF 50V ELECTRO	
	C167	QETB1HM-225	2.2MF 50V ELECTRO	
	C168	QETB1HM-475	4.7MF 50V ELECTRO	
	C169	QCF21HP-223	0.022MF 50V CERAMIC	
	C170	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C171	QETB1EM-106	10MF 25V ELECTRO	
	C172	QCVB1CM-103	0.01MF 16V CERAMIC	
	C173	QFLB1HJ-393	0.039MF 50V NYLAR	
	C174	QFLB1HJ-473	0.047MF 50V NYLAR	
	C175	QETB1EM-106	10MF 25V ELECTRO	
	C176	QCY21HK-102	1000PF 50V CERAMIC	
	C177	QCS21HJ-821	820PF 50V CERAMIC	
	C178	QCS21HJ-821	820PF 50V CERAMIC	
	C179	QETB1HM-225	2.2MF 50V ELECTRO	
	C180	QETB1HM-225	2.2MF 50V ELECTRO	
	C181	QETB1EM-106	10MF 25V ELECTRO	
	C182	QETB1HM-225	2.2MF 50V ELECTRO	
	C183	QETB1HM-105	1MF 50V ELECTRO	
	C184	QETB1HM-105	1MF 50V ELECTRO	
	C185	QETB1HM-225	2.2MF 50V ELECTRO	
	C186	QETB1HM-474	0.47MF 50V ELECTRO	
	C192	QCC21EM-473	0.047MF 25V CERAMIC	
	C193	QCS21HJ-180	18PF 50V CERAMIC	
	C194	QCS21HJ-180	18PF 50V CERAMIC	
	C195	QEN51HM-474	0.47MF 50V NON POLE	
	C196	QCY21HK-102	1000PF 50V CERAMIC	
	C200	QCF21HP-103	0.01MF 50V CERAMIC	
	C201	QCY21HK-332	3300PF 50V CERAMIC	
	C202	QCY21HK-332	3300PF 50V CERAMIC	
	C203	QCY21HK-182	1800PF 50V CERAMIC	
	C204	QCY21HK-182	1800PF 50V CERAMIC	
	C209	QETB1CM-227	220MF 16V ELECTRO	
	C210	QETB1CM-227	220MF 16V ELECTRO	
	C230	QCF21HP-103	0.01MF 50V CERAMIC	

△ : SAFETY PARTS

RESISTORS

△ ITEM	PART NUMBER	DESCRIPTION			AREA
R118	QRD167J-332	3.3K	1/6W	CARBON	
R119	QRD161J-221	220	1/6W	CARBON	
R121	QRD167J-391	390	1/6W	CARBON	
R122	QRD167J-272	2.7K	1/6W	CARBON	
R123	QRD167J-102	1K	1/6W	CARBON	
R124	QRD167J-681	680	1/6W	CARBON	
R125	QRD167J-332	3.3K	1/6W	CARBON	
R126	QRD161J-221	220	1/6W	CARBON	
R131	QRD167J-331	330	1/6W	CARBON	
R132	QRD167J-103	10K	1/6W	CARBON	
R133	QRD167J-473	47K	1/6W	CARBON	
R135	QRD167J-470	47	1/6W	CARBON	
R136	QRD167J-103	10K	1/6W	CARBON	
R146	QRD167J-560	56	1/6W	CARBON	
R147	QRD167J-103	10K	1/6W	CARBON	
R148	QRD167J-103	10K	1/6W	CARBON	
R149	QRD167J-223	22K	1/6W	CARBON	
R150	QRD167J-103	10K	1/6W	CARBON	
R151	QRD167J-222	2.2K	1/6W	CARBON	
R153	QRD167J-103	10K	1/6W	CARBON	
R154	QRD167J-103	10K	1/6W	CARBON	
R155	QRD167J-562	5.6K	1/6W	CARBON	
R156	QRD167J-682	6.8K	1/6W	CARBON	
R157	QRD167J-103	10K	1/6W	CARBON	
R158	QRD167J-273	27K	1/6W	CARBON	
R159	QRD167J-561	560	1/6W	CARBON	
R160	QRD167J-562	5.6K	1/6W	CARBON	
R161	QRD167J-823	82K	1/6W	CARBON	
R162	QRD167J-823	82K	1/6W	CARBON	
R163	QRD167J-472	4.7K	1/6W	CARBON	
R164	QRD167J-472	4.7K	1/6W	CARBON	
R165	QRD167J-184	180K	1/6W	CARBON	
R166	QRD167J-184	180K	1/6W	CARBON	
R167	QRD167J-393	39K	1/6W	CARBON	
R168	QRD167J-103	10K	1/6W	CARBON	
R169	QRD167J-103	10K	1/6W	CARBON	
R171	QRD167J-682	6.8K	1/6W	CARBON	
R172	QRD167J-682	6.8K	1/6W	CARBON	
R179	QRD167J-562	5.6K	1/6W	CARBON	
R180	QRD167J-472	4.7K	1/6W	CARBON	
R181	QRD167J-222	2.2K	1/6W	CARBON	
R182	QRD167J-181	180	1/6W	CARBON	
R190	QRD167J-472	4.7K	1/6W	CARBON	
R194	QRD167J-472	4.7K	1/6W	CARBON	
R195	QRD167J-473	4.7K	1/6W	CARBON	
R196	QRD167J-103	10K	1/6W	CARBON	
R197	QRD167J-222	2.2K	1/6W	CARBON	
R198	QRD167J-332	3.3K	1/6W	CARBON	
R199	QRD167J-472	4.7K	1/6W	CARBON	

△ : SAFETY PARTS

OTHERS

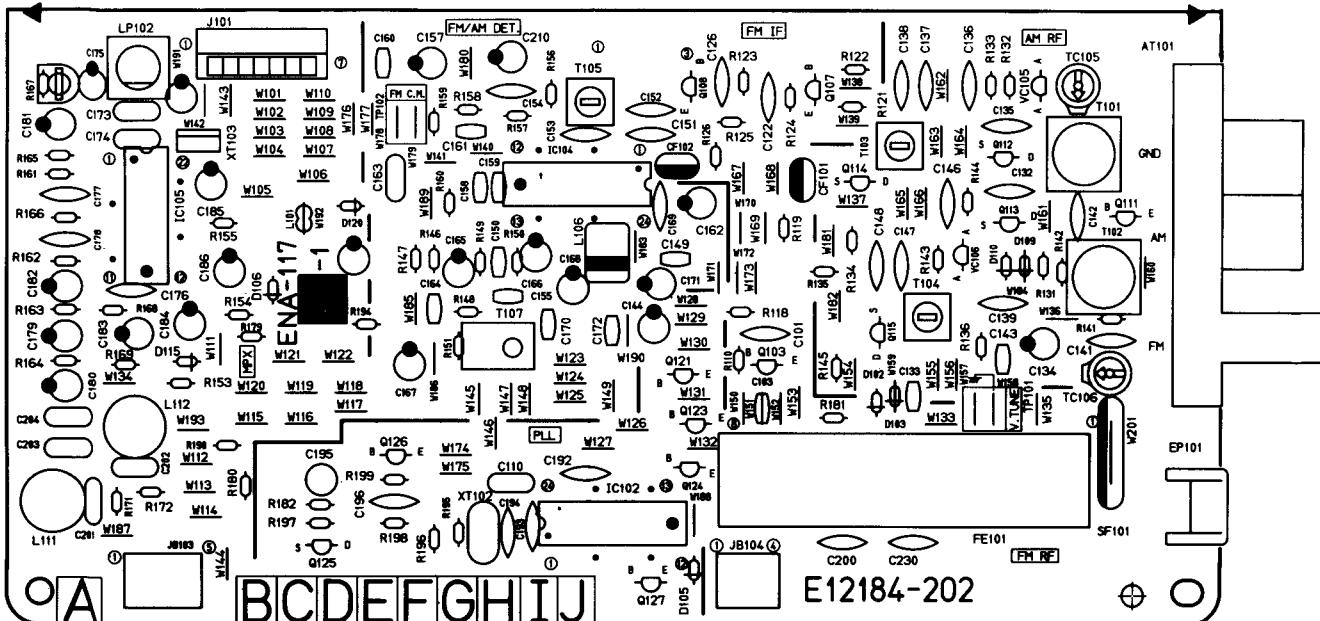
△ ITEM	PART NUMBER	DESCRIPTION			AREA
J101	VMC0107-007	CONNECT TERMINAL(7PIN)			
J105	VMC0107-003	CONNECT TERMINAL			
L101	EQL4007-1ROT	INDUCTOR			
L106	EQL3001-102K	INDUCTOR			
L111	EQL2103-393	INDUCTOR			
L112	EQL2103-393	INDUCTOR			
T101	EQR1111-014	AM RF COIL			
T103	EQR1207-015	MW OSC COIL			
T105	EQT2140-017	I.F. TRANSFORMER			
T107	ECB1560-010	CERAMIC FILTER			
AT101	EMB90YV-401K	ANTENNA TERMINAL			
CF101	ECB2123-006R	CERAMIC FILTER			
CF102	ECB2123-006R	CERAMIC FILTER			
EP110	E70225-001	EARTH PLATE			
FE101	EAF2203-001	FRONT END			
JB103	EMV7125-005R	CONNECTOR(5PIN)			
SW202	QSS7A12-E01	SLIDE SWITCH			
TC105	ENZ1003-006	TRIMMER			
XT102	ECX0007-200KC	RESONATOR			
XT103	ECX0000-456KR	RESONATOR			

△ : SAFETY PARTS

www.manualscenter.com

■ ENA-117 □ Tuner PC Board Ass'y (Except for Universal Type)

Note : ENA-117 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENA-117 [E]	Scandinavia Continental Europe
ENA-117 [F]	the U.K.
ENA-117 [G]	Germany

DIODES

A	ITEM	PART NUMBER	DESCRIPTION	AREA
	D102	1SS133	SILICON	ROHM
	D103	1SS133	SILICON	ROHM
	D105	1SS133	SILICON	ROHM
	D106	1SS133	SILICON	ROHM
	D109	1SS133	SILICON	ROHM
	D110	1SS133	SILICON	ROHM
	D115	1SS133	SILICON	ROHM
	D120	1SS133	SILICON	ROHM
	VC105	SVC342(L)	VARICAP	SANYO
	VC106	SVC342(H)	VARICAP	SANYO

SAFETY PARTS

TRANSISTORS

A	I T E M	P A R T N U M B E R	D E S C R I P T I O N	A R E A
	Q103	2SC461(B,C)	SILICON	HITACHI
	Q107	2SC535(B,C)	SILICON	HITACHI
	Q108	2SC461(B,C)	SILICON	HITACHI
	Q111	ZSD2144S(VW)	SILICON	ROHM
	Q112	2SK301(Q,R)	F.E.T	MATSUSHITA
	Q113	2SK301(Q,R)	F.E.T	MATSUSHITA
	Q114	2SK301(Q,R)	F.E.T	MATSUSHITA
	Q115	2SK301(Q,R)	F.E.T	MATSUSHITA
	Q121	DTA124ES	SILICON	
	Q123	DTA124ES	SILICON	
	Q124	DTA124ES	SILICON	
	Q125	2SK301(Q2)	F.E.T	MATSUSHITA
	Q126	2SC458(D)	SILICON	HITACHI
	Q127	DTC144ES	SILICON	ROHM

⚠ : SAFETY PARTS

I. C. S.

ITEM	PART NUMBER	DESCRIPTION	AREA
IC102	LC7218	I.C.	SANYO
IC104	LA1266A	I.C.	SANYO
IC105	LA3401	I.C.	SANYO

A : SAFETY PARTS

www.manualscenter.com

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
C101	QCF21HP-223	0.022MF	50V	CERAMIC		
C110	QCZ0202-155	1.5MF	25V	CERAMIC		
C122	QCF21HP-223	0.022MF	50V	CERAMIC		
C126	QCF21HP-223	0.022MF	50V	CERAMIC		
C132	QCS21HJ-561	560PF	50V	CERAMIC		
C133	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C134	QETB1EM-106	10MF	25V	ELECTRO		
C135	QCC21EM-223	0.022MF	25V	CERAMIC		
C136	QCT26CH-180	18PF	50V	CERAMIC		
C137	QCT26CH-221	220PF	50V	CERAMIC		
C138	QCT26CH-241	240PF	50V	CERAMIC		
C139	QCC21EM-223	0.022MF	25V	CERAMIC		
C141	QCS21HJ-270	27PF	50V	CERAMIC		
C142	QCY21HK-272	2700PF	50V	CERAMIC		
C143	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C144	QETB1EM-106	10MF	25V	ELECTRO		
C146	QCT26CH-680	68PF	50V	CERAMIC		
C147	QCT26CH-220	22PF	50V	CERAMIC		
C148	QCT26CH-121	120PF	50V	CERAMIC		
C149	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C150	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C151	QCF21HP-223	0.022MF	50V	CERAMIC		
C152	QCF21HP-223	0.022MF	50V	CERAMIC		
C153	QCC21EM-223	0.022MF	25V	CERAMIC		
C154	QCF21HP-223	0.022MF	50V	CERAMIC		
C155	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C157	QETB1HM-474	0.47MF	50V	ELECTRO		
C158	QCBB1HK-101	100PF	50V	CERAMIC		
C159	QCBB1HK-101	100PF	50V	CERAMIC		
C160	QCBB1HK-221	220PF	50V	CERAMIC		
C161	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C162	QETB1EM-106	10MF	25V	ELECTRO		
C163	QCY21HK-102	1000PF	50V	CERAMIC		
C164	QCHB1EZ-223	0.022MF	25V	CERAMIC		
C165	QETB1HM-474	0.47MF	50V	ELECTRO		

▲ : SAFETY PARTS

CAPACITORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
C166	QETB1HM-225	2.2MF	50V ELECTRO	
C167	QETB1HM-225	2.2MF	50V ELECTRO	
C168	QETB1HM-475	4.7MF	50V ELECTRO	
C169	QCF21HP-223	0.022MF	50V CERAMIC	
C170	QCHB1EZ-223	0.022MF	25V CERAMIC	
C171	QETB1EM-106	10MF	25V ELECTRO	
C172	QCVB1CM-103	0.01MF	16V CERAMIC	
C173	QFLB1HJ-223	0.022MF	50V MYLAR	
C174	QFLB1HJ-473	0.047MF	50V MYLAR	
C175	QETB1EM-106	10MF	25V ELECTRO	
C176	QCY21HK-102	1000PF	50V CERAMIC	
C177	QCS21HJ-561	560PF	50V CERAMIC	E
C177	QCS21HJ-821	820PF	50V CERAMIC	F
C177	QCS21HJ-561	560PF	50V CERAMIC	G
C178	QCS21HJ-561	560PF	50V CERAMIC	E
C178	QCS21HJ-821	820PF	50V CERAMIC	F
C178	QCS21HJ-561	560PF	50V CERAMIC	G
C179	QETB1HM-225	2.2MF	50V ELECTRO	
C180	QETB1HM-225	2.2MF	50V ELECTRO	
C181	QETB1EM-106	10MF	25V ELECTRO	
C182	QETB1HM-225	2.2MF	50V ELECTRO	
C183	QETB1HM-105	1MF	50V ELECTRO	
C184	QETB1HM-105	1MF	50V ELECTRO	
C185	QETB1HM-225	2.2MF	50V ELECTRO	
C186	QETB1HM-474	0.47MF	50V ELECTRO	
C192	QCC21EM-473	0.047MF	25V CERAMIC	
C193	QCS21HJ-180	18PF	50V CERAMIC	
C194	QCS21HJ-180	18PF	50V CERAMIC	
C195	QEN51HM-474	0.47MF	50V NON POLE	
C196	QCY21HK-102	1000PF	50V CERAMIC	
C200	QCF21HP-103	0.01MF	50V CERAMIC	
C201	QCY21HK-102	1000PF	50V CERAMIC	E
C201	QCY21HK-332	3300PF	50V CERAMIC	G
C202	QCY21HK-102	1000PF	50V CERAMIC	E
C202	QCY21HK-332	3300PF	50V CERAMIC	F
C202	QCY21HK-102	1000PF	50V CERAMIC	G
C203	QCY21HK-182	1800PF	50V CERAMIC	
C204	QCY21HK-182	1800PF	50V CERAMIC	
C209	QETB1CM-227	220MF	16V ELECTRO	
C210	QETB1CM-227	220MF	16V ELECTRO	
C230	QCF21HP-103	0.01MF	50V CERAMIC	

△ : SAFETY PARTS

RESISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
R167	QRD167J-473	47K	1/6W CARBON	
R168	QRD167J-103	10K	1/6W CARBON	
R169	QRD167J-103	10K	1/6W CARBON	
R171	QRD167J-682	6.8K	1/6W CARBON	
R172	QRD167J-682	6.8K	1/6W CARBON	
R179	QRD167J-562	5.6K	1/6W CARBON	
R180	QRD167J-472	4.7K	1/6W CARBON	
R181	QRD167J-222	2.2K	1/6W CARBON	
R182	QRD167J-181	180	1/6W CARBON	
R190	QRD167J-472	4.7K	1/6W CARBON	
R194	QRD167J-472	4.7K	1/6W CARBON	
R195	QRD167J-473	4.7K	1/6W CARBON	
R196	QRD167J-222	2.2K	1/6W CARBON	
R197	QRD167J-222	2.2K	1/6W CARBON	
R198	QRD167J-822	8.2K	1/6W CARBON	
R199	QRD167J-472	4.7K	1/6W CARBON	

△ : SAFETY PARTS

OTHERS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
J101	VMC0107-007	CONNECT TERMINAL(7PIN)		
L101	EQL4007-1ROT	INDUCTOR		
L106	EQL3001-102K	INDUCTOR		
L111	EQL2103-393	INDUCTOR		
L112	EQL2103-393	INDUCTOR		
T101	EQR1111-014	AM RF COIL		
T102	EQR1111-005	AM RF COIL		
T103	EQR1207-015	MW OSC COIL		
T104	EQR1307-009	LW OSC COIL		
T105	EQT2140-017	I.F. TRANSFORMER		
T107	ECB1560-010	CERAMIC FILTER		
AT101	EMB41YV-301K	ANTENNA TERMINAL		
CF101	ECB2118-007R	CERAMIC FILTER		
CF102	ECB2118-007R	CERAMIC FILTER		
EP101	E70225-001	EARTH PLATE		
FE101	EAF2203-001	FRONT END	E	
FE101	EAF2203-001	FRONT END	F	
FE101	EAF2203-003	FRONT END	G	
JB103	EMV7125-005R	CONNECTOR(5PIN)		
LP102	EQF0102-001	LOW PASS FILTER		
TC105	ENZ1003-006	TRIMMER		
TC106	ENZ1003-006	TRIMMER		
XT102	ECX0007-200KC	RESONATOR		
XT103	ECX0000-456KR	RESONATOR		

△ : SAFETY PARTS

RESISTORS

△	ITEM	PART NUMBER	DESCRIPTION	AREA
R118	QRD167J-332	3.3K	1/6W CARBON	
R119	QRD161J-221	220	1/6W CARBON	
R121	QRD167J-391	390	1/6W CARBON	
R122	QRD167J-272	2.7K	1/6W CARBON	
R123	QRD167J-102	1K	1/6W CARBON	
R124	QRD167J-681	680	1/6W CARBON	
R125	QRD167J-332	3.3K	1/6W CARBON	
R126	QRD161J-221	220	1/6W CARBON	
R131	QRD167J-331	330	1/6W CARBON	
R132	QRD167J-103	10K	1/6W CARBON	
R133	QRD167J-473	47K	1/6W CARBON	
R134	QRD167J-103	10K	1/6W CARBON	
R135	QRD167J-470	47	1/6W CARBON	
R136	QRD167J-103	10K	1/6W CARBON	
R141	QRD167J-472	4.7K	1/6W CARBON	
R142	QRD167J-331	330	1/6W CARBON	
R143	QRD167J-103	10K	1/6W CARBON	
R144	QRD167J-473	47K	1/6W CARBON	
R145	QRD167J-103	10K	1/6W CARBON	
R146	QRD167J-560	56	1/6W CARBON	
R147	QRD167J-103	10K	1/6W CARBON	
R148	QRD167J-103	10K	1/6W CARBON	
R149	QRD167J-273	27K	1/6W CARBON	
R150	QRD167J-103	10K	1/6W CARBON	
R151	QRD167J-222	2.2K	1/6W CARBON	
R153	QRD167J-103	10K	1/6W CARBON	
R154	QRD167J-103	10K	1/6W CARBON	
R155	QRD167J-562	5.6K	1/6W CARBON	
R156	QRD167J-682	6.8K	1/6W CARBON	
R157	QRD167J-103	10K	1/6W CARBON	
R158	QRD167J-273	27K	1/6W CARBON	
R159	QRD167J-561	560	1/6W CARBON	
R160	QRD167J-103	10K	1/6W CARBON	E
R160	QRD167J-102	1K	1/6W CARBON	F
R160	QRD167J-103	10K	1/6W CARBON	G
R161	QRD167J-104	100K	1/6W CARBON	E
R161	QRD167J-683	68K	1/6W CARBON	G
R161	QRD167J-104	100K	1/6W CARBON	G
R162	QRD167J-683	68K	1/6W CARBON	F
R162	QRD167J-104	100K	1/6W CARBON	G
R163	QRD167J-392	3.9K	1/6W CARBON	
R164	QRD167J-392	3.9K	1/6W CARBON	
R165	QRD167J-274	270K	1/6W CARBON	
R166	QRD167J-274	270K	1/6W CARBON	

△ : SAFETY PARTS

www.manualscenter.com

Accessories List

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1941BBS	INSTRUCTION BOOK	1		BS
	E30580-1942B	INSTRUCTION BOOK	1		EF
	E30580-1943B	INSTRUCTION BOOK	1		EN
	E30580-1942B	INSTRUCTION BOOK	1		G
	E30580-1944B	INSTRUCTION BOOK	1		U
	BT-20134	WARRANTY CARD	1		G
	BT20060	WARRANTY CARD	1		BS
	BT-20066A	WARRANTY CARD	1		BS
	QZL1008-001	FTZ INFORMATION SHEET	1		G
	EWP502-005K	BILT-IN ANTENNA	1		BS
	EWP502-005K	BILT-IN ANTENNA	1		EF
	E67007-001	ANTENNA WIRE	1		EN
	EWP502-005K	BILT-IN ANTENNA	1		G
	EMZ2001-014	AC ADAPTOR	1		U
⚠	EMZ2001-014	AC ADAPTOR	1		BS
	E35497-019	CAUTION SHEET	1		EF
	E04056	SIEMENS PLUG	1		EN
	E43486-340A	SAFETY SHEET	1		U
	EQB4001-015	LOOP ANTENNA	1		U
	RM-SE59U	WIRE-LESS REMOTE CONTROL	1		BS
	UM-4NJ-2PSA	BATTERY	1		U
	E300196-033B	ENVELOPE	1		Universal Type

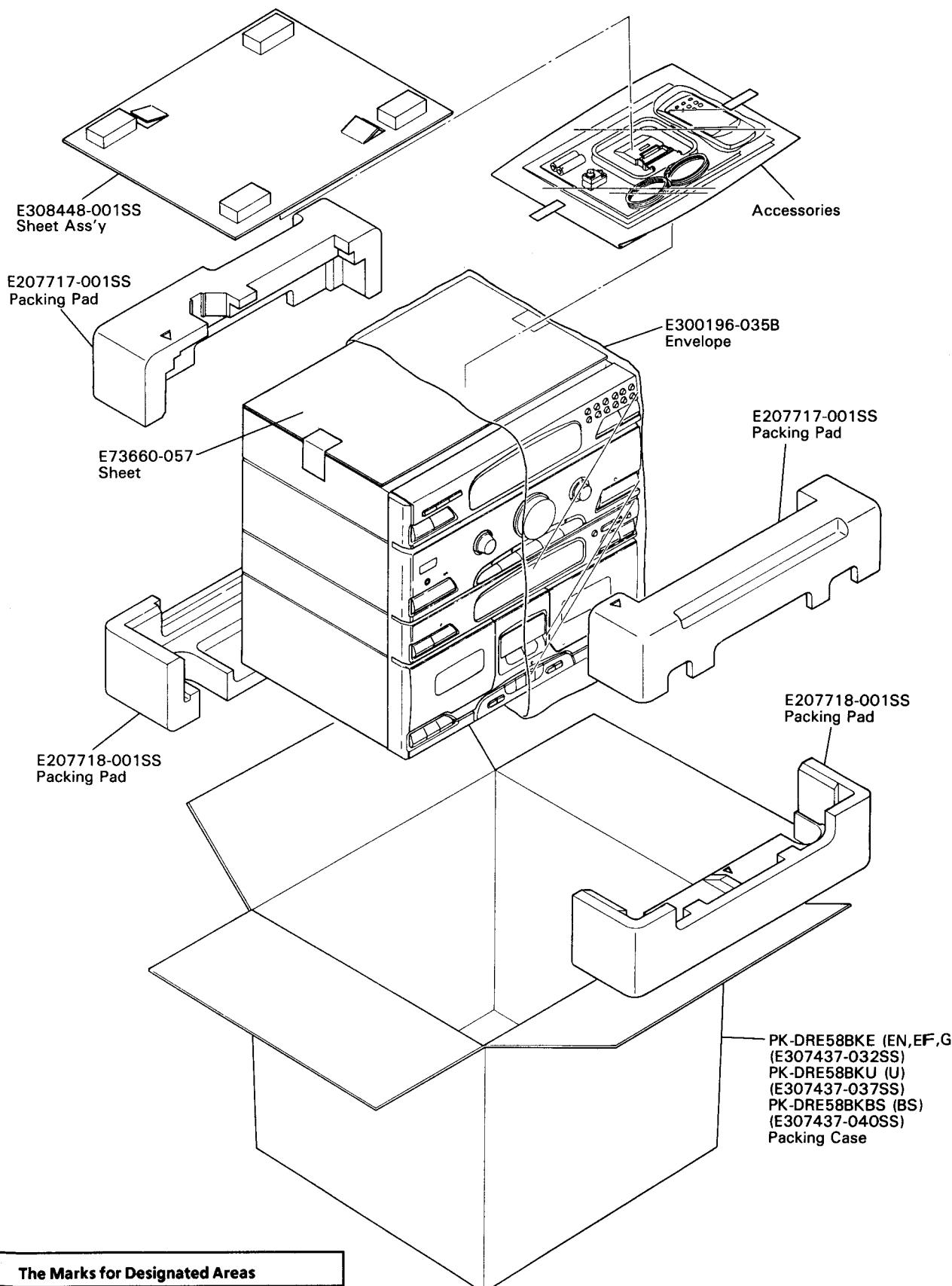
The Marks for Designated Areas

EN Scandinavia EF Continental Europe
 BS the U.K. U Universal Type

G Germany
No mark indicates all areas.

www.manualscenter.com

Packing Materials and Part Numbers



The Marks for Designated Areas

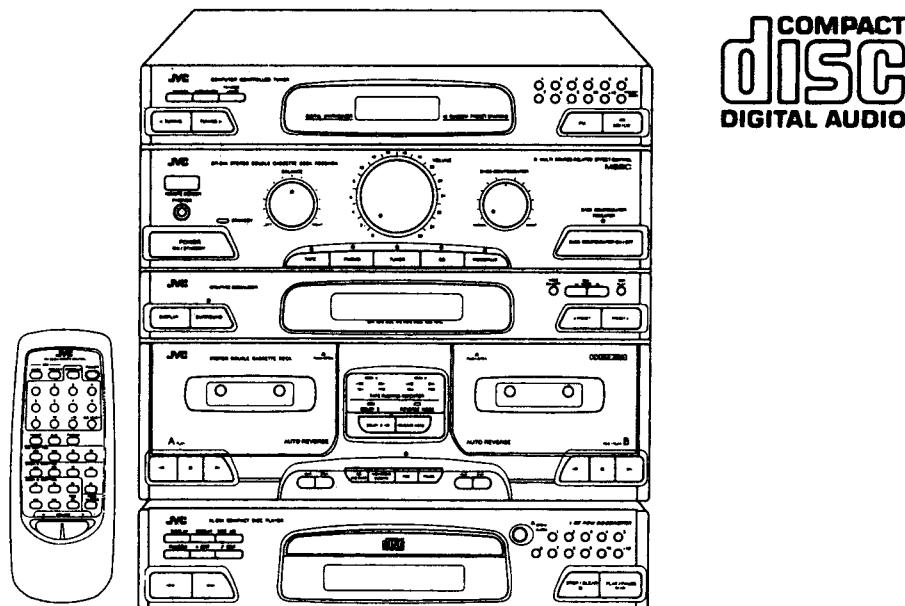
EN.....Scandinavia	EF.....Continental Europe
BS.....the U.K.	G.....Germany
U.....Universal Type	No mark indicates all areas.

www.manualscenter.com

JVC

SERVICE MANUAL

DR-E58BK
DR-E59TN
(SUPPLEMENT)



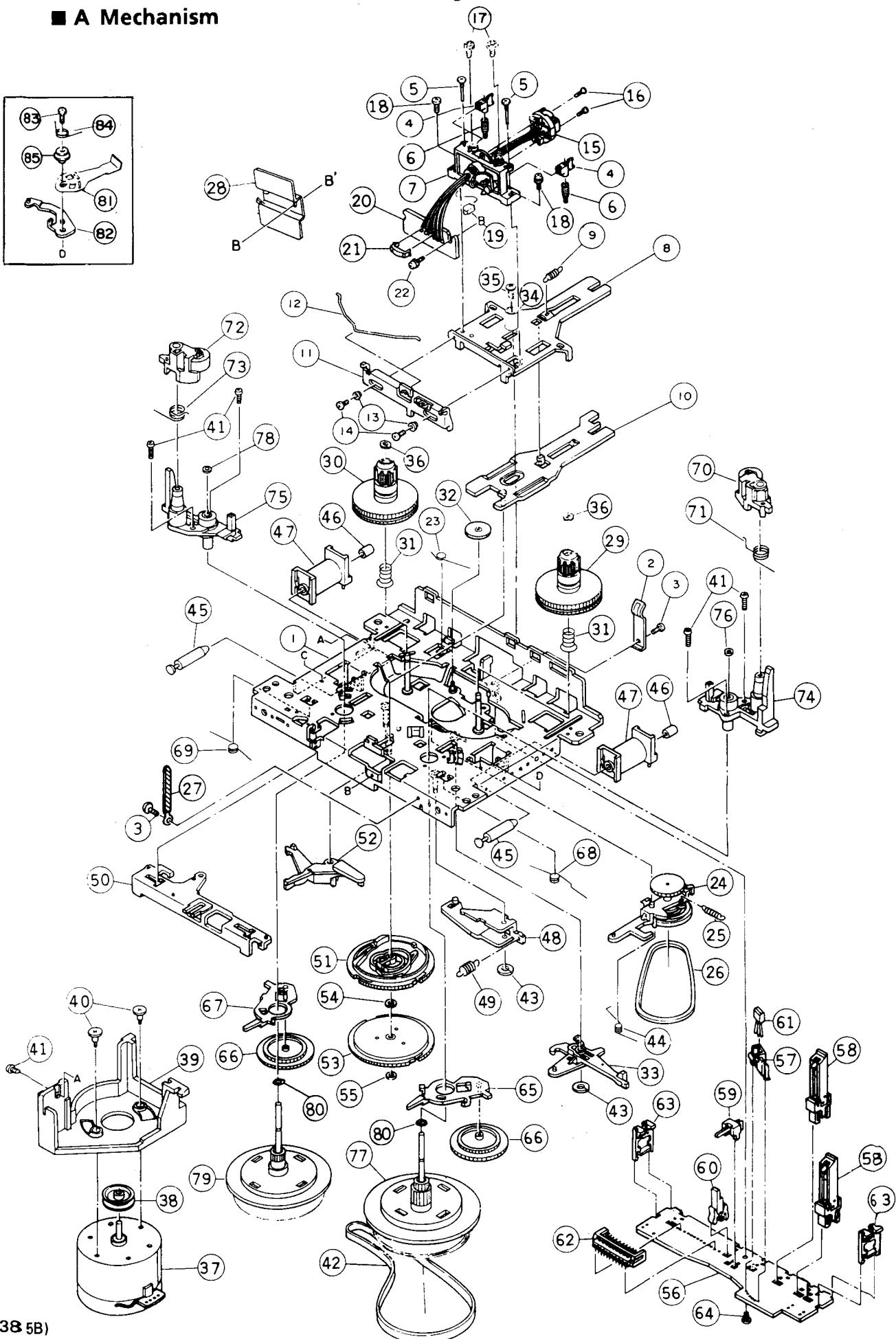
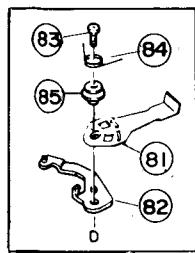
COMPACT
disc
DIGITAL AUDIO

www.manualscenter.com

The list (Page 2-9,2-10,3-9,3-10) and the diagram (Page 2-8,3-8) for the cassette A mecha on the Service Manual (No.20385) which already issued were incorrect.
Please replace this newly revised supplement with the previous one.

Cassette Mechanism Ass'y and Parts List

■ A Mechanism



■ Parts List (A Mechanism)

Item	Part Number	Part Name	Q'ty	Description	Area
1	188801501T	CHASSIS BASE	1		
2	18800102T	PACK SPRING	1		
3	SPST2004Z	SCREW	2		
4	18650250AT	TAPE GUIDE	2		
5	18650252T	SCREW	2		
6	18650254T	GUIDE SPRING	2		
7	188802307T	HEAD BASE ASSY	1		
8	18880202T	HEAD PANEL (A)	1		
9	18800204T	RC SPRING	1		
10	188802501T	HEAD PANEL (B) ASSY	1		
11	18800206T	CHP LEVER	1		
12	18800405T	PINCH ROLLER SPRING	1		
13	18650228T	CHP LEVER COLLAR	2		
14	9C0117301T	SCREW	2		
15	62020722T	HEAD	1		
16	9F1316482T	SCREW	2		
17	9P1520063T	SCREW	2		
18	9P0220051T	SCREW	2		
19	18650961T	SPACER	1		
20	18650234T	RELAY BOARD	1		
21	18650249T	WIRE CLAMP	1		
22	9P1220051T	SCREW	1		
23	18880204T	HEAD PANEL SPRING	1		
24	188807307T	RF. CLUTCH ASSY	1		
25	18880709T	RF. PULLER ARM SPRING	1		
26	18880707T	RF BELT	1		
27	11140302T	CORD CLAMP	1		
28	18880212T	SHIELD PLATE	1		
29	188805301T	T. REEL ASSY (F)	1		
30	188805302T	T. REEL ASSY (R)	1		
31	18880515T	B. T. SPRING	2		
32	18880508T	FF. GEAR	1		
33	18880509T	RF. TRIGGER ARM	1		
34	18880216T	PANEL COLLAR	1		
35	9C2520503T	SCREW	1		
36	9W0640030T	HL. WASHER CUT	2		
37	MMI-6H2LWK	DC MOTOR	1		
38	18881210T	MOTOR PULLEY (U)	1		
39	18881202T	MOTOR BRACKET	1		
40	19211202T	SCREW	2		
41	SPST2005Z	SCREW	5		
42	18880925T	M. BELT	1		
43	9W0640040T	HL. WASHER CUT	2		
44	18882109T	TRIGGER ARM SPRING	1		
45	18802105T	PLUNGER	2		
46	18802106T	PLUNGER HOLDER	2		
47	18882108T	SOLENOID	2		
48	18882104T	P. KICK LEVER	1		
49	18802111T	P. K. LEVER SPRING	1		
50	18882101T	CH. SLIDE LEVER	1		
51	18882102T	M. GEAR	1		
52	18882103T	M. TRIGGER ARM	1		
53	18882110T	RF. CAM GEAR	1		
54	REE2000X	E. RING	1		
55	9W0650040T	HL. WASHER CUT	1		

Item	Part Number	Part Name	Q'ty	Description	Area
56	18885306T	P. BASE	1		
57	18885303T	IC PROTECTOR	1		
58	640101193T	LEAF SWITCH	2		
59	640101194T	LEAF SWITCH	1		
60	640101195T	LEAF SWITCH	1		
61	68040604T	HALL IC	1		
62	68150206T	CONNECTOR	1		
63	18885304T	P. BASE STAND	2		
64	SPST2004Z	SCREW	1		
65	188805501T	T. GEAR ARM (F) ASSY	1		
66	18880507T	T. GEAR	2		
67	188805502T	T. GEAR ARM (R) ASSY	1		
68	18880513T	T. G. ARM (F) SPRING	1		
69	18880514T	T. G. ARM (R) SPRING	1		
70	188804301T	PINCH ROLLER ARM (F) ASSY	1		
71	18800403T	P. ARM (F) SPRING	1		
72	188804302T	PINCH ROLLER ARM (R) ASSY	1		
73	18800404T	P. ARM (R) SPRING	1		
74	188809301T	FL METAL (F) ASSY	1		
75	188809302T	FL METAL (R) ASSY	1		
76	9W0650050T	HL. WASHER CUT	1		
77	188809311T	FLYWHEEL (F) ASSY	1		
78	9W0650080T	HL. WASHER CUT	1		
79	188809312T	FLYWHEEL (R) ASSY	1		
80	9W0520030T	HL. WASHER	2		
81	18881309T	EJECT STOPPER	1		
82	18881302T	EJECT STOPPER	1		
83	99991404T	SCREW	1		
84	18801320T	SPRING	1		
85	18801305T	E. STOPPER COLLAR	1		

www.manualscenter.com



VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION, 1664, SHIMOTSURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN