

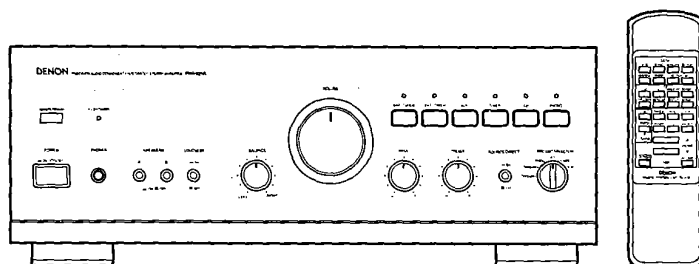
DENON

Hi-Fi Integrated Stereo Amplifier

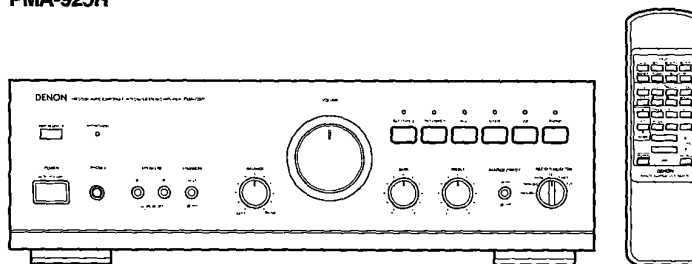
SERVICE MANUAL

MODEL PMA-925R/725R

INTEGRATED STEREO AMPLIFIER



PMA-925R



PMA-725R

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NIPPON COLUMBIA CO., LTD.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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

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

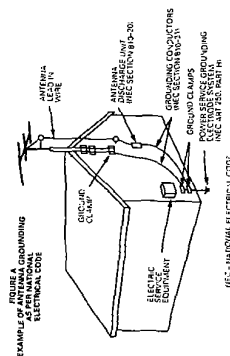
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

● FOR U.S.A. MODEL ONLY

SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Read Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Water and Moisture - The appliance should not be used near water, for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. Cords and Stands - The appliance should be used only with a cord or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, or uneven surfaces may cause the appliance and cart combination to overturn.
7. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.
12. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them; paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
14. Power Lines - An outdoor antenna should be located away from power lines.
15. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 250 of the National Electrical Code (ANSI/NFPA 70) provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
17. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
18. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
19. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
20. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.



● FOR U.S.A. & CANADA MODEL ONLY

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

● POUR LE MODELE CANADIEN UNIQUEMENT

ATTENTION

POUR PREVENIR LES CHOCES ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, RECEPTACLE OU AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

- **DECLARATION OF CONFORMITY**
We declare under our sole responsibility that the product *premiere Amplifier PMA-925R/725R* is in conformity with the following standards:
EN55013, EN55020, EN60555-2 and EN60555-3
- **ÜBEREINSTIMMUNGSKLÄRUNG**
Wir erklären unter unserer Verantwortung, daß das Produkt *Verstärker PMA-925R/725R* auf das sich diese Erklärung bezieht, den folgenden Standards entspricht:
EN55013, EN55020, EN60555-2 und EN60555-3
- **DECLARATION DE CONFORMITE**
Nous déclarons sur notre seule responsabilité que l'appareil *Amplificateur PMA-925R/725R* auquel se réfère cette déclaration est conforme aux standards suivants:
EN55013, EN55020, EN60555-2 et EN60555-3
- **DICHIAZIONE DI CONFORMITA**
Dichiaro sotto la mia esclusiva responsabilità che il prodotto *amplificatore di potenza PMA-925R/725R*, al quale questa dichiarazione si riferisce, è conforme alle seguenti norme:
EN55013, EN55020, EN60555-2 e EN60555-3
- **DECLARACIÓN DE CONFORMIDAD**
Declaro bajo nuestra única responsabilidad que el producto *predeciente, el Amplificador PMA-925R/725R*, al que esta declaración hace referencia, es conforme con las siguientes estándares:
EN55013, EN55020, EN60555-2 y EN60555-3
- **ENVORMIGHEIDSVERKLARING**
Wij verklaren uitsluitend op onze verantwoordelijkheid dat het product *waaronder deze verklaring betrekking heeft*, de overeenstemmer PMA-925R/725R, in overeenstemming is met de volgende normen:
EN55013, EN55020, EN60555-2 en EN60555-3
- **ÖVERENSÄMMELSESVÄRKLING**
Härmed intygar jag på eget ansvar att produkten, (förflöskare) *slutligen PMA-925R/725R*, vilken detta intyg hänvisar till uppfyller följande standarder:
EN55013, EN55020, EN60555-2 och EN60555-3
- **DECLARAÇÃO DE CONFORMIDADE**
Declaramos sob nossa exclusão responsabilidade que o produto *pre Amplificador Potência PMA-925R/725R* ao qual esta declaração corresponde, está em conformidade com as seguintes normas:
EN55013, EN55020, EN60555-2 e EN60555-3.

NOTE ON USE/HINWEISE ZUM GEBRAUCH/OBSERVATIONS RELATIVES A L'UTILISATION
NOTE SULL'USO/NOTAS SOBRE EL USO/ALVORENS TE GEBRUIKEN/OBSERVERA
OBSERVAÇÕES QUANTO AO USO

	• Avoid high temperatures Vermeden Sie hohe Temperaturen • Beachten Sie, daß eine ausreichende Lüftung vorhanden ist, wenn das Gerät auf ein Regal gestellt wird. • Ever the temperature Tenet sempre a temperatura de cada aparelho • Evitate di esporre l'unità a temperature alte • Assicurarsi che ci sia un'adeguata dispersione d'aria quando si installa l'unità in un ripostiglio. • Evite alta temperatura • Zorg voor een doorgang, bijvoorbeeld: noan laat de unit op een plank hangen. • Maak hoge temperatuur niet aan, als de unit op een plank hangt. • Evite temperaturas altas • Conecte o sistema sempre de estar quando o equipamento for instalado num parafuso.		• Keep the set free from moisture, water, and dust. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Evitare l'umidità e la polvere • Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere • Laag geen vocht/gras, water of stof in het apparaat binnengaan • Niet met apparatuur in vocht, vetten en dam • Mantenha o aparelho livre de qualquer umidade, água ou poeira.
	• Unplug the power cord when not using the set for long periods of time • Wenn das Gerät eine längere Zeit nicht verwendet werden soll, ziehen Sie das Netzstecksel vom Netzstecker. • Dabancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Disinnestare il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione. • Desconectar el cordón de energía cuando no utilice el equipo por mucho tiempo. • Neem altijd het netstekker uit het stopcontact als u de apparatuur niet gaat gebruiken een lange periode niet wordt gebruikt. • Koppla ur nätkabeln om apparaten inte kommer att användas i lång tid. • Desligga alltid strömkabeln när apparatens användning inte ska pågå under en lång period.		• Do not let insecticides, benzene, and thinner touch the set. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • Assicurarsi che l'unità non venga in contatto con insetticidi, benzina o diluente. • No permita o contacto de insecticidas, gasolina y diluyentes con el equipo. • Laat geen insectenverdelgende middelen, benzine of verdunningsmiddel met het apparaat in contact komen. • Se til at let insektmidler på spraybukt, benzin eller fortynningsmiddel i kontakt med apparatet. • Não permita que inseticidas, benzina e dissolvente entrem em contacto com o aparelho.
	• Never disassemble or modify the set in any way. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern. • Ne jamais démonter ou modifier l'appareil. • Non smontare mai, né modificare l'unità in nessun modo. • Nunca desarmar o modificar el equipo de ninguna manera. • Niet afbreken of wijzigen de eenheid. • Niet afbreken of aanpassen de eenheid. • Nunca desmonte ou modifique o aparelho de qualquer forma.		• Do not obstruct the ventilation holes, which must be kept clear at all times. • Die Belüftungslöcher dürfen nicht verblockt werden • Ne pas obstruer les trous de ventilation. • Do not obstruct the fan ventilation. • Do obstruere los orificios de ventilación. • De ventilatieopeningen mogen niet worden geblokkeerd. • Tapp inte till vent-öppningarna. • Não obstrua os orifícios de ventilação.

NOTA:

1. Mantenga siempre activado el interruptor de alimentación (POWER) en la unidad principal.
2. Encienda y apague el equipo desde la unidad de control remoto.
3. Cuando la unidad vaya a estar fuera de uso por un periodo prolongado de tiempo, desconecte el cable de alimentación.

PRECAUCION:

Cuando solo el indicador LED de silenciamiento/modo de espera (MUTE/STANDBY) este iluminado, la unidad de control remoto no puede controlar la unidad de control remoto. Conecte la alimentación desde la unidad de control remoto.

OPMERKING:

1. De gijg de motor dat de automatischealar (POWER) van het hoofd toestel in de afstandsbediening is uit.
2. Schakel de stroom in uit m.v. b.v. de afstandsbediening.
3. Trek het netstekker uit wanneer u denkt het toestel gedurende een lange periode niet te gebruiken.

WAARSCHUWING:

Indien enkel de demping-/IMUTE/STANDBY LED brandt, betekent dit dat de spanning met de afstandsbediening is uitgeschakeld. Schakel de spanning in met de afstandsbediening.

OBSERVEZA:

1. Lk allit strombryaren (POWER) pa huvudenheten vara pslagen.
2. Skall tillfrin strmmen ut m.v. b.v. fr frkntrollern.
3. Koppl loss nttstckeln om apparaten inte skall anvndas under lng tid.

WARNING:

Om endast MUTE/STANDBY-lampen lyser betyder det att strmmen har stngts av via frkntrollern. Strmmen mste ds sls p via frkntrollern igen.

NOTA:

1. Mantenga o interruptor de Corrente (POWER) na unidade principal sempre ligada.
2. Ligue e desligue a corrente a partir da unidade de controle remoto.
3. Desconecte o fio de forca quando nteriar nio utilizar a unidade por longo tempo.

CAUTELA:

Se apenas se iluminar o LED de surdina/espera (MUTE/STANDBY), isto significa que a forca se desligou a partir do controle remoto. Ligue a forca a partir do controle remoto.

註:

1. 主機上的 POWER (電源) 緊須一直保持接通。
2. 由遙控器操縱電源之開閉。
3. 本機打算長時間不用時應將電源接線拔下。

注意:

若只有 MUTE/STANDBY LED 指示燈亮，就表示電源已由遙控器關閉，應從遙控器開啟電源。

PRECAUCIONES PARA LA INSTALACION

Deje por lo menos 10 cm. de espacio entre esta unidad y cualquier otro componente situado sobre ella.

VOORZORGMAATREGELEN

Bij plaatsing dient u een ruimte van minstens 10 cm open te laten tussen de toestel en een ander apparaat geplaatst componenten.

FÖRSIKTIGHETSÅTGÄRDER VID INSTALLATIONEN

Se till att det finns minst 10 cm mellanrum mellan apparaten och en ev. annan apparat som sälls ovanpå.

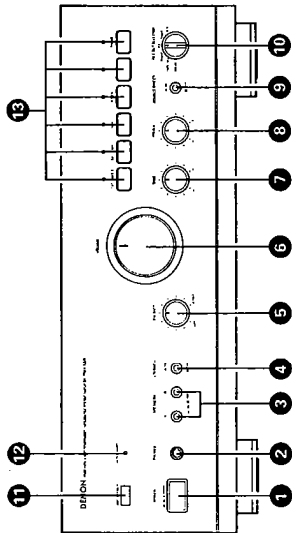
CUIDADOS NA INSTALAO

Deixe um espao de pelo menos 10 cm entre esta unidade e qualquer outro componente colocado acima.

安裝注意

本機須與其它音響設備相隔至少 10 厘米。

FRONT PANEL
FRONTPLATTE
Panneau AVANT
Pannello ANTERIORE
正面



REAR PANEL
RUCKWAND
Panneau ARRIERE
Pannello POSTERIORE
背面

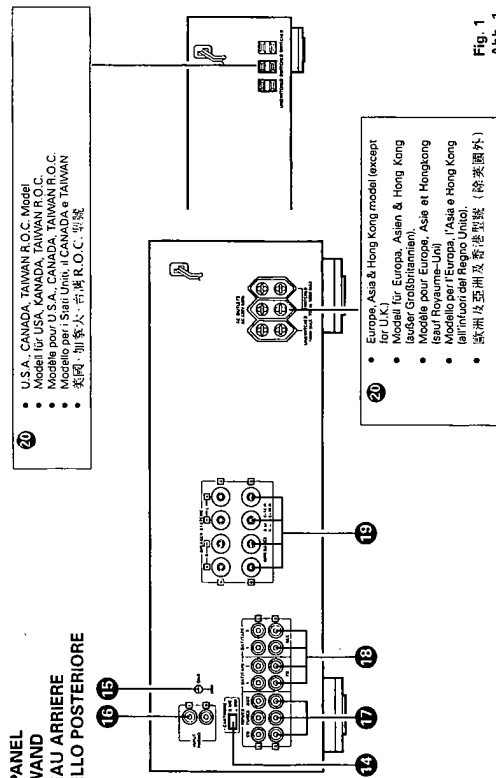


Fig. 1
Abb. 1
圖 1

① CARTRIDGE	② GND	③ PHONO	④ CD, TUNER, AUX	⑤ DAT/TAPE-1, DAT/TAPE-2, TAPE PB	⑥ SPEAKERS
Cartridge Reference Switch	GND	Phono Input Terminals	New Terminals ICD, TUNER, AUX	Playback and Recording Terminals Recording Terminals	Speaker Terminals
Tonearm Reference Switch	GND	Excitation/Reference Phono	Excitation/Reference ICD, TUNER, AUX	Tonearm/Reference AUX	Left/Right Terminals
Selecteur de carte	GND	Phono d'excitation Phono	Bornes d'excitation ICD, TUNER, AUX	Bornes de lecture et d'enregistrement AUX	Bornes de haut- parleurs
Interruttore d' inserzione cartuccia	GND	Terminali di eccitazione Phono	Terminali di eccitazione ICD, TUNER, AUX	Terminali di riproduzione AUX	Terminali degli altoparlanti
喇叭(傳聲器)	地線	唱機輸入端子 (唱機)	輸入端子 (CD, 調諧器, 輔助)	播放/錄音端子 (錄音帶)	揚聲器端子

CONNECTIONS
ANSCHLÜSSE
CONNEXIONS
CONNESSIONI
連接方法

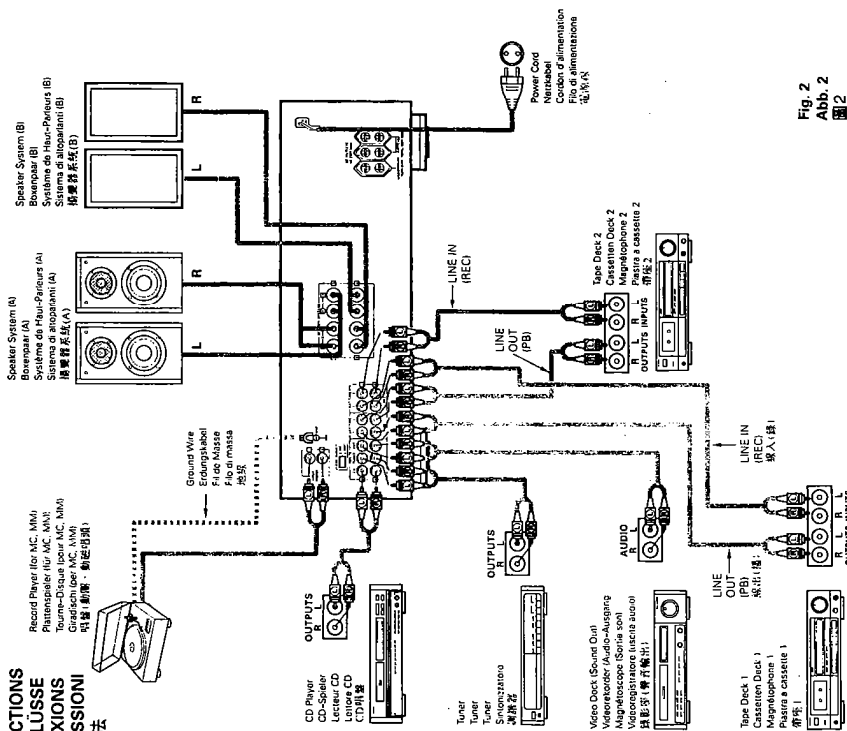


Fig. 2
Abb. 2
圖 2

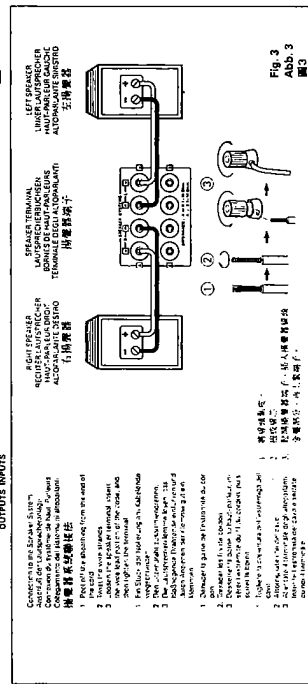


Fig. 3
Abb. 3
圖 3

DESIGNATIONS AND FUNCTIONS OF PANEL CONTROLS

- 1 **POWER (Power Switch)**
When the power switch is turned ON ($\blacktriangle$), the MUTE/STANDBY LED $\odot$ lights.
It takes a few seconds after the power is turned on for the unit to warm up. This is due to the built-in muting circuit that eliminates noise during the on/off operation.
- 2 **PHONES (Headphone Jack)**
This jack is used to plug in the headphones.
- 3 **SPEAKERS (Speaker Selection Switch)**
The PMA-925R/725R can be connected to two speaker systems: speaker system A and speaker system B.
When A is pressed, the speaker system connected to speaker output terminals A operates.
When B is pressed, the speaker system connected to speaker output terminals B operates.
When A and B are pressed on together, both speaker systems operate simultaneously. When the A and B switches are both off (in the out position), there is no output from the speaker terminals. This setting is used to listen to playback through the headphones.
- 4 **LOUDNESS (Loudness Switch)**
When the volume is low, it is difficult for the human ear to clearly distinguish notes in the low and high frequency ranges. The loudness switch allows a simple "one-touch" correction of this difficulty. Press the loudness switch ON ($\blacktriangle$) when listening to music at a low volume. The low notes and high notes will be corrected to produce a natural sound.
- 5 **BALANCE (Balance Control)**
This knob is used to adjust the balance between the left and right channels. When it is set to the center position, the amplitude of the amplifier is equal on both sides. If there is a difference in the left and right channel output voltages for a cartridge, move the knob to the left and the right to adjust it. If the volume on the left side is too low, turn the knob to the left ($\curvearrowright$). This will achieve an even balance on the left and right sides.
- 6 **VOLUME (Volume Control)**
This knob controls the overall volume level.
Turn the knob to the right ($\curvearrowright$) to raise the volume and to the left ($\curvearrowleft$) to lower it.
- 7 **BASS (Bass Control)**
This knob is used to control the bass quality of the sound.
When the knob is set at the center position, the frequency characteristics are flattened in the range below 1000 Hz. The bass is emphasized as the knob is moved off center to the right ($\curvearrowright$), and reduced as it is moved to the left ($\curvearrowleft$).
When volume control 6 is set to the right of the center position, the effect of the other controls is reduced.
- 8 **TREBLE (Treble Control)**
This knob is used to control the treble quality of the sound.
When the knob is set at the center position, the frequency characteristics are flattened in the range above 1000 Hz. The treble is emphasized as the knob is moved off center to the right ($\curvearrowright$), and reduced as it is moved to the left ($\curvearrowleft$).
When volume control 6 is set to the right of the center position, the effect of the other controls is reduced.

- 9 **SOURCE DIRECT (Source Direct Switch)**
The controls (BALANCE, LOUDNESS, and TONE) can be used when this switch is in the OFF ($\blacksquare$) position.
When set to the ON ($\blacktriangle$) position, the above controls are bypassed and the signals are input directly to the volume control circuit, providing high quality sound.
- 10 **REC OUT SELECTOR (Rec Out Select Switch)**
Use this switch to select the recording component:
• PHONO: Used to recording from this turntable.
• CD: Used to recording from the CD player.
• TUNER: Used to recording from the tuner.
• AUX: Used to recording component that connected to the AUX terminal.
• DAT/TAPE-1 $\blacktriangleright$ 2: Used to recording from the tape deck connected to the DAT/TAPE-1 jacks.
• DAT/TAPE-2 $\blacktriangleright$ 1: Used to recording from the tape deck connected to the DAT/TAPE-2 jacks.
- 11 **REMOTE SENSOR (Remote Control Sensor)**
This sensor receives the infra-red light transmitted from the wireless remote control unit.
For remote control, point the wireless remote control unit towards the sensor.
- 12 **MUTE/STANDBY LED**
This LED flashes while the muting circuit is activated when the power is turned on and when muting is turned on from the remote control unit, and remains lit (without flashing) while the power is on.
- 13 **INPUT SELECTOR (Input Select Switch)**
Use these to select the program source.
When the button for the desired program source is selected, its LED lights. One program source only can be selected at a time, as follows:
• PHONO: Used to select the output from a turntable that is connected to the PHONO terminal.
Use the PHONO switch $\odot$ (Rear Panel Side) to switch the sensitivity to correspond to the cartridge type being used.
• CD: Used to listen a compact disc player or other component that is connected to the CD terminal.
• TUNER: Used to play a component such as an FM/AM tuner or a TV tuner that is connected to the TUNER terminal.
• AUX: Used to play a component such as a Hi-Fi video player, TV tuner, 8-track, tape player or tape deck that is connected to the AUX terminal.
• DAT/TAPE-1: Use this Position when using the tape deck, etc., connected to the DAT/TAPE-1 jacks.
• DAT/TAPE-2: Use this Position when using the tape deck, etc., connected to the DAT/TAPE-2 jacks.

14 **PHONO (Cartridge Selection Switch) Rear Panel Side**

This switch is set according to the type of player cartridge to be used.

- MC ($\blacksquare$): Used when an MC (moving-coil) cartridge with an output of less than 0.5 mV is used.
- MM ($\blacktriangle$): Used when an MM (moving-magnet) cartridge with an output of 2 mV or more is used.

20 **AC OUTLETS: Rear Panel Side**

- For U.S.A., Canada, and Taiwan R.O.C. models:
AC outlets are used for connecting amplifier component units, such as tuner, turntable, tape deck, etc.
• SWITCHED Total capacity: 120 W:
These outlets are turned ON/OFF when main power switch and POWER button on the Remote Control Unit is turned on/off.
• UNSWITCHED (Capacity: 240 W)
This outlet is always ON whether power switch is on or OFF.
• For Europe (except the U.K.), Asia and Hong Kong models:
AC outlets are used for connecting amplifier component units, such as tuner, turntable, tape deck, etc.
• SWITCHED Total capacity: 100 W:
These outlets are turned ON/OFF when main power switch and POWER button on the Remote Control Unit is turned on/off.
• UNSWITCHED (Capacity: 100 W)
This outlet is always ON whether power switch is on or OFF.

OPERATION

1. CHECKING CONNECTIONS

- Make sure that all the connections are proper by referring to the back panel. (Fig. 2, 3)
- Check the polarity (positive and negative) of connections, and the directivity of stereo separation (right cord to right channel terminal, and left cord to left channel terminal).
- Check the directivity of pin cord connection.

2. SETTING OF EACH KNOB

- Turn the volume control knob counterclockwise, to "0".
 - Set the rotary knob to "flat".
 - Set SOURCE DIRECT and LOUDNESS to "OFF ($\blacksquare$)".
- After checking the above items, turn on the power, the amplifier is set in the ready mode in a few seconds.

PLAYING A RECORD

1. Set the INPUT SELECTOR switch to "PHONO".
2. Operate the turntable and play the record.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

PLAYBACK OF CD PLAYER

1. Set the INPUT SELECTOR switch to "CD".
2. Operate the CD player.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

RECEPTION OF RADIO PROGRAMS

1. Set the INPUT SELECTOR switch to "TUNER".
2. Operate the tuner to receive a radio program.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

CONNECTIONS OF AUDIO EQUIPMENT TO AUX TERMINALS

1. Set the INPUT SELECTOR switch to "AUX" Position.
2. Operate the Audio equipment Systems.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

PLAYBACK WITH TAPE DECK

1. Set the INPUT SELECTOR switch to "DAT/TAPE-1" or "DAT/TAPE-2".
2. Operate the Tape Deck.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

RECORDING WITH TAPE DECK

1. Set the REC OUT SELECTOR to the program source you wish to record.
2. Start the playback of the program source.
3. Start recording with the component connected to "DAT/TAPE-1" or "DAT/TAPE-2".

- In the PMA-925R/725R, the REC OUT signal and the speaker headphoned signal are output via separate circuits so that knobs and switches related to the tone and volume have no effect whatsoever on the sound that is recorded. Also, since the recording function is selected by the REC OUT SELECTOR, the free program source can be played through the speakers (or headphones) even during recording.

MONITORING THE RECORDING

- A recording in progress can be monitored if a tape deck with three individual heads for recording and playback is used. A tape deck in which a common head is used for both recording and playback cannot be used to monitor recording. When using the REC OUT selector using DAT/TAPE-1, selecting DAT/TAPE-1 with the INPUT SELECTOR will engage the RECORDING MONITOR and permit a check of the recording condition.

CAUTION

Protective Circuit

This set is equipped with a high speed protective circuit. This circuit protects the internal circuitry from damage due to large currents flowing when the speaker jacks are not completely connected or when an output is generated by a short circuit. This protective circuit's operation cuts off the output to the speaker's. In such a case, be sure to turn the power to the set off and check the connections to the speakers. Then turn the power on again. After muting for several seconds, the set will operate normally.

NOTE

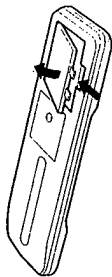
- This amplifier has a full memory back-up system. When the power is turned on, INPUT SELECTOR $\odot$ are set to the last mode set before the power was turned off.

REMOTE CONTROL OPERATION

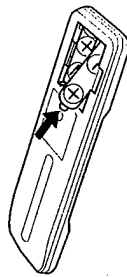
The accessory Remote Control Unit is used to control the amplifier from a convenient distance.

(1) Inserting the Dry Cell Batteries

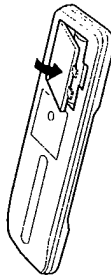
1. Remove the battery cover on the Remote Control Unit.



2. Insert two dry cell batteries as shown in the diagram on the battery supply unit.

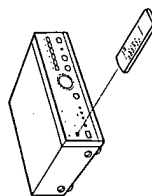


3. Replace the battery cover.



(2) Directions for use

- Operate the Remote Control Unit while pointing it towards the Remote Control Sensor on the Amplifier as shown in the diagram on the left.
- The Remote Control Unit can be used at distances up to about 8 meters in a straight line from the amplifier. This distance will decrease if there are obstructions blocking the infra-red light transmission or if the Remote Control Unit is not directed straight at the amplifier.



Note on operation

- Do not press the operating buttons on the Amplifier and the Remote Control Unit at the same time. This will cause misoperation.
- Operation of the Remote Control Unit will become less effective or erratic if the infrared Remote Control Sensor on the Amplifier is exposed to strong light or if there are obstructions between the Remote Control Unit and the sensor.
- In case you operate a VCR, TV or other components by remote control, do not operate buttons on two different remote control units at the same time. This will cause misoperation.

Besides being able to operate the PMA-925R/725R amplifier with this Remote Control Unit, you can also operate a DENON cassette deck and CD player from this handy full-system Remote Control Unit.

Remote control section

Full-system Remote Control Unit

The full-system Remote Control Unit operates all major functions of the Amplifier, such as function switching, volume control. But that's not all! The same control pad can also control the major functions of a DENON CD player and cassette deck when combined with the PMA-925R/725R to create a remarkably ergonomic and versatile DENON system with all the quality sound reproduction that the devoted audiophile expects.

Remote Control Unit RC-176 supplied with the PMA-925R/725R

1 POWER button

This button can be used to turn on and off the power of the amplifier. However, the power for the amplifier turned on and off if it is in the power standby mode and the power cord is plugged in.

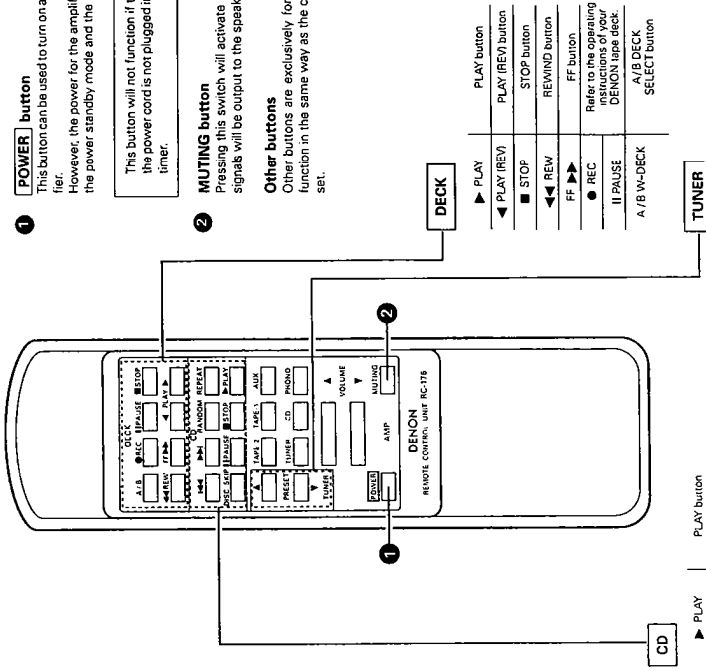
This button will not function if there is a power failure, if the power cord is not plugged in, or when using an audio tuner.

2 MUTING button

Pressing this switch will activate the muting condition and no signals will be output to the speakers.

Other buttons

Other buttons are exclusively for the PMA-925R/725R, and function in the same way as the corresponding buttons on the set.



PRESET buttons

Press the button to move up or down among the preset station numbers.

PLAY button	PLAY button
STOP button	STOP button
Reverse Track Search button	Reverse Track Search button
Forward Track Search button	Forward Track Search button
RANDOM button	RANDOM button
REPEAT button	REPEAT button
DISC SKIP button	DISC SKIP button
II PAUSE button	II PAUSE button

The RC-176 Remote Control Unit can control CD players and cassette decks manufactured by DENON.

- Note that operation may not be possible for some models.
- Buttons are conveniently separated into groups, each group controlling one specific component. The groups are AMP, FUNCTION, CD, DECK and TUNER etc.

For details on operating other components, refer to the operating instructions for the CD player and/or cassette deck.

CAUTION:

- If the power is turned off with the Remote Control Unit, the set is switched to the power stand-by state. If you are absent for a long period of time, unplug the power cord.
- Only the MUTE/STANDBY LED lights when in the power stand-by mode.
- You may experience erratic operation of the Remote Control Unit if it is operated in fluorescent light and direct sunlight, in particular if this light strikes the Remote Control Sensor on the Amplifier. However, this is not a malfunction, and if this should happen, simply protect the sensor against such light.

Technical Data (Typical value)	Technische Daten (Typische waarden)	Caractéristiques techniques (valeur caractéristique)	PMA-925R/725R
• POWER AMPLIFIER SECTION Rated Output Power: 80W (80V/80V) (100V/100V) 20 Hz to 20 kHz, THD 0.02% to 0.05% 80V/80V, THD 0.7% 100V/100V, THD 0.7% • Continuous 80W/80V per channel into 8 Ohms load, 20 Hz to 20 kHz, with no more than 0.02% to 0.05% total harmonic distortion. Total Harmonic Distortion: 1-3 dB at rated output, 8 Ohms • PRE AMPLIFIER SECTION Rated Output: (Recut terminal) Input Sensitivity: 100 mV (1 kHz) PHONO: CD, TUNER, AUX TAPE-1, TAPE-2 RIAA Deviation: PHONO 0.3 dB Maximum Input: 100 mV (1 kHz) • OVERALL CHARACTERISTICS SN Ratio (JHF A Network): (Input terminals short-circuited) SOURCE-DIRECT ON Tone Control Adjustable Bass Treble Loudness • OTHERS Power Supply AC Outlets Switched x 2: Unswitched x 1: Power Consumption Dimensions (W) x (H) x (D)	• LEISTUNGSSTÄRKE VERSTÄRKER Nenn-Ausgangsleistung: 80W (80V/80V) (100V/100V) 20 Hz bis 20 kHz, THD 0.02% bis 0.05% 80V/80V, THD 0.7% 100V/100V, THD 0.7% • Fortwährend 80W/80V pro Kanal in 8 Ohm von 20 Hz bis 20 kHz, mit Gesamtharmonik distortion nicht mehr als 0.02% bis 0.05% Gesamt-Harmonik distortion: 1-3 dB bei Nennausgang, 8 Ohm • VORVERSTÄRKER Nenn-Ausgangsleistung: (Ausnahme-Ausgangsbuchse) Input-Sensitivität: 100 mV (1 kHz) PHONO: CD, TUNER, AUX TAPE-1, TAPE-2 Abweichung von der RIAA-Norm: PHONO 0.3 dB Maximaler Eingang: 100 mV (1 kHz) • GESAMTCHARAKTERISTIKEN Signal/Rauschverhältnis (JHF-A-Weiche): (Eingangsanschlüsse kurzgeschlossen) SOURCE-DIRECT ON Klangregelschalter: TIEFEN (BASS) HOHEN (TREBLE) Geräuschunterdrückung: Loudness • SONSTIGES Netzspannung und -frequenz Wechselstrom-Ausgänge Geschaltet x 2: Ungeschaltet x 1: Leistungsaufnahme Abmessungen (B) x (H) x (T)	• PARTIE AMPLIFICATEUR Puissance nominale: 80W (80V/80V) (100V/100V) 20 Hz à 20 kHz, THD 0.02% à 0.05% 80V/80V, THD 0.7% 100V/100V, THD 0.7% • Puissance en continu par canal de 80W/80V 20 Hz à 20 kHz avec une distorsion harmonique totale de 0.02% à 0.05% au moins. Distorsion harmonique totale: 1-3 dB à la sortie nominale, 8 Ohms • PRE-AMPLI Puissance nominale: (Borne de sortie d'enregistrement) Sensibilité d'entrée: 100 mV (1 kHz) PHONO: CD, TUNER, AUX TAPE-1, TAPE-2 Variation RIAA: PHONO 0.3 dB Entrée max.: 100 mV (1 kHz) • CARACTÉRISTIQUES GÉNÉRALES Rapport signal/bruit (réseau JHF A): (bornes d'entrée court-circuitées) SOURCE DIRECT: ON Gamme de réglage de tonalité: GRAVES AIGUES Compensation physiologique: • AUTRES Alimentation Piles secteur (AC) Commutées x 2: Non commutées x 1: Consommation Dimensions (L) x (H) x (D)	80W + 80W/80V + 66W 100W + 100V/100V + 100W 80W/80V 0.007% 150 mV MM 2.5 mV/47 kΩ/40mm MC 200 μV/100 Ω/40mm 150 mV/47 kΩ/40mm 20 Hz - 20 kHz PHONO MM 150 mV/1 kHz MC 120 mV/1 kHz PHONO: MM: 95 dB MC: 70 dB MC: 70 dB input at 0.5 mV input CD, TUNER, AUX TAPE-1, TAPE-2: 101 dB 100 Hz ± 8 dB 1 kHz ± 8 dB 10 kHz ± 8 dB 10 Hz - 20 kHz AC 220/100V/50 Hz For Europe, Asia and Hong Kong models AC 200/60 Hz For U.S.A., Canada and Taiwan R.O.C. models 100W (Total For Europe (except the U.K.), Asia and Hong Kong models) 100W (Total For U.S.A., Canada, and Taiwan R.O.C. models) 100W (For Europe (except the U.K.), Asia and Hong Kong models) 100W (For U.S.A., Canada, and Taiwan R.O.C. models) 230W/100V/50 Hz 42X3.6A (U.S.A. and Canada models) 42X3.6A (U.S.A. and Canada models) 17-3322 x 6-338 x 13-587 4340W x 142H x 346D (mm) PMA-925R 17-3322 x 6-338 x 13-587 11 kg (24 lbs 4oz) / 9.6 kg (21 lbs 3oz) 55W x 184H x 180D (mm) 11.16kg x 7.16kg x 45.6kg (including batteries)

Note: *1 For Europe, Asia and Hong Kong *2 For U.S.A., Canada, and Taiwan R.O.C.

Specifications and contents are subject to change without notice for purposes of improvement.
 Les spécifications et le contenu sont susceptibles de changer sans préavis.
 Specifications of contents are subject to change without notice for purposes of improvement.

ESPAÑOL

Por favor verifique asegurándose de que los siguientes artículos son empacados en la caja pero separados de la unidad principal.

(1) Manual de instrucciones 1
 (2) Unidad de control remoto (RC-178) 1
 (3) Pilas R6P (AA) 2

NEDERLANDS

Kontroleer of de volgende accessoires bij het hoofdtoestel in de doos zijn verpakt:

(1) Gebruiksaanwijzing 1
 (2) Afstandsbediening (RC-178) 1
 (3) Batterijen R6P (AA) 2

SVENSKA

Kontrollera att följande, förutom huvudapparaten, finns med i kartongen.

(1) Bruksanvisning 1
 (2) Fjärrkontroll (RC-178) 1
 (3) Batterier R6P (AA) 2

PORTUGUÊS

Certifique-se de que as seguintes peças estão incluídas na embalagem fora da unidade principal:

(1) Instruções de operação 1
 (2) Unidade de controle remoto (RC-178) 1
 (3) Baterias R6P (AA) 2

中文

下列物品請主顧一起包裝於紙箱內，請查對：

(1) 使用說明書 1
 (2) 遙控器 (RC-178) 1
 (3) 電池 R6P (AA) 2

ENGLISH

Please check to make sure the following items are included with the main unit in the carton:

(1) Operating Instructions 1
 (2) Remote Control Unit (RC-178) 1
 (3) Batteries R6P (AA) 2

DEUTSCH

Bitte überprüfen Sie, ob die folgenden Teile vollständig in der Verpackung enthalten sind:

(1) Bedienungsanleitung 1
 (2) Fernbedienung (RC-178) 1
 (3) Batterien vom Typ R6P (AA) 2

FRANÇAIS

Veuillez contrôler que les articles suivants sont bien joints à l'appareil principal dans le carton:

(1) Mode d'emploi 1
 (2) Unité de télécommande (RC-178) 1
 (3) Piles R6P (AA) 2

ITALIANO

Controllare che le parti seguenti si trovino imballate con l'apparecchio nella scatola di spedizione.

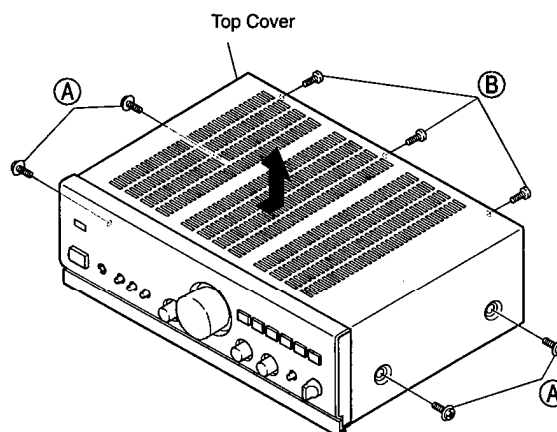
(1) Libretto delle istruzioni 1
 (2) Telecomando (RC-178) 1
 (3) Batterie R6P (AA) 2

MEMO

REMOVAL OF EACH SECTION

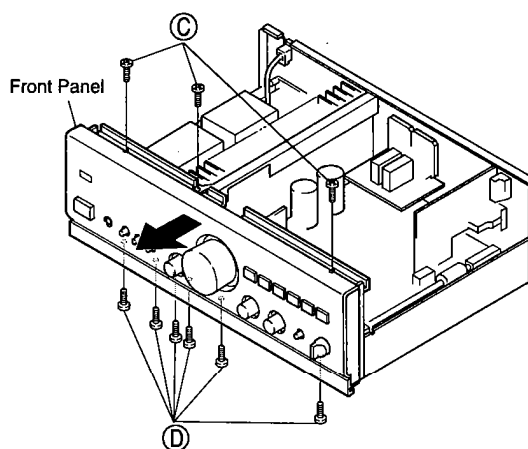
● Top Cover

- 1) Remove 4 screws (A) and 3 screws (B).
- 2) Pull up Top Cover in arrow direction.



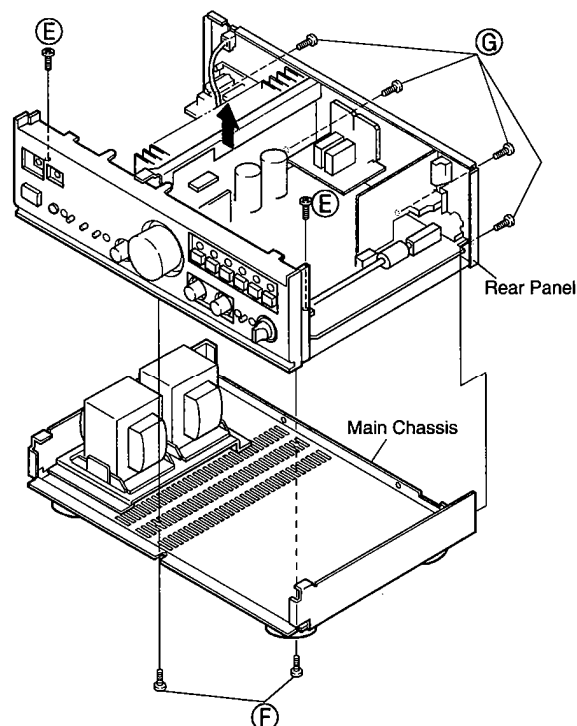
● Front Panel

- 1) Remove 3 screws (C).
- 2) Remove 6 screws (D).
- 3) Detach Front Panel in arrow direction.



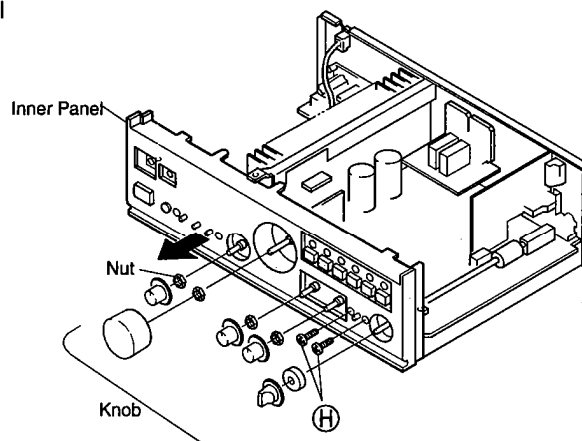
● Main Chassis

- 1) Remove 2 screws (E).
- 2) Remove 2 screws (F) securing Power Radiator with Main Chassis.
- 3) Remove 4 screws (G) securing Rear Panel with Main Chassis.



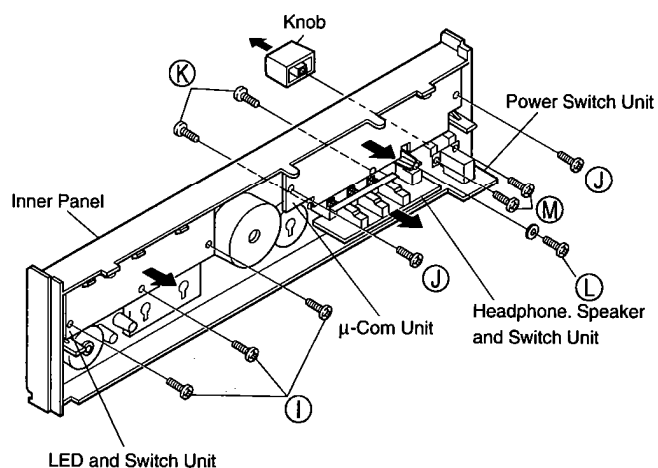
● Inner Panel

- 1) Remove 5 Knobs and 4 nuts.
- 2) Remove 2 screws (H) and detach Inner Panel in arrow direction.



● Each Unit of Inner Panel

- 1) Remove 3 screws (I), and detach LED and Switch Unit.
- 2) Remove 2 screws (J), and detach μ -Com Unit.
- 3) Remove 2 screws (K) securing Headphone, SP Switch Unit with Inner Panel.
- 4) Remove 1 screw (L) and 1 washer, and detach Headphone, SP. switch Unit.
- 5) Remove 2 screws (M) and a Knob, then detach Power Switch Unit.



FUNCTION OF NEW CIRCUIT

1. CHARACTERISTIC OF THIS CIRCUIT

The junction temperature of power amplifier output transistor always varies by an ambient temperature and music signal. Occurrence of junction temperature varying causes in change of bias current, unstable function, thus pure music signal playback is unable to do.

To maintain fixed bias current and to make pure music signal playback possible is the purpose of this circuit. This circuit holds stable bias current condition within a few seconds after turning on the power.

2. BLOCK DIAGRAM OF BIAS CONTROL CIRCUIT FUNCTION

As explained in Fig. 1, detects a voltage across the emitter resistors (RE) of TR1, TR2. Converts the detected voltage and comparing with the reference voltage to make the bias current value in stable state. Actually, these functions are performed by 1 chip IC.

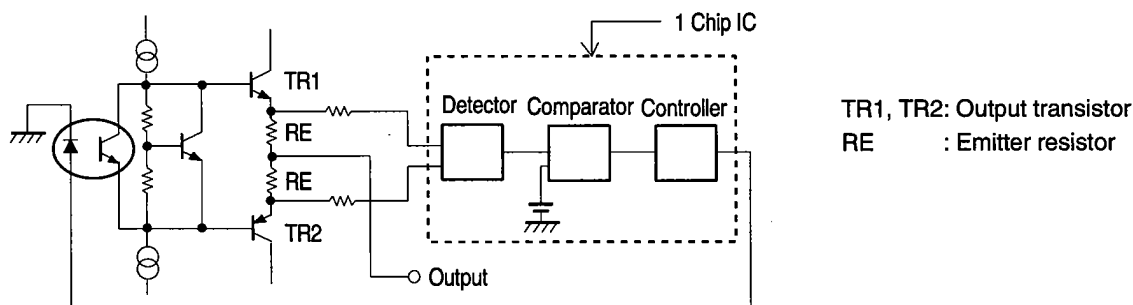


Fig. 1

3. POWER SUPPLY FOR ACTUATING CONTROL CIRCUIT

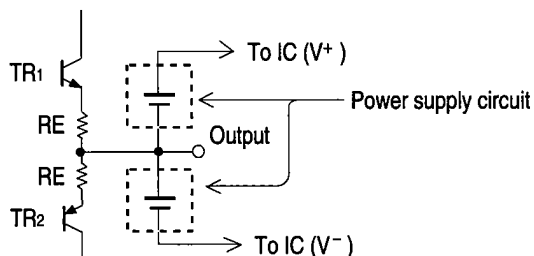


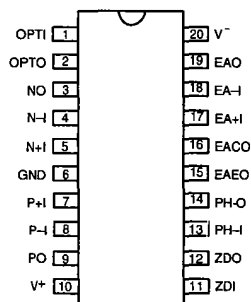
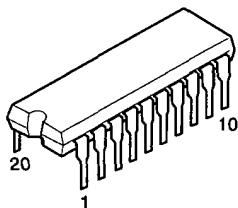
Fig. 2

The circuit (IC) controlling bias current actuates by floating.

Accordingly, the power supply is also needed to be floated.

In this circuit, as indicated in Fig. 2, output is common to provide +, - power system and supplies to IC.

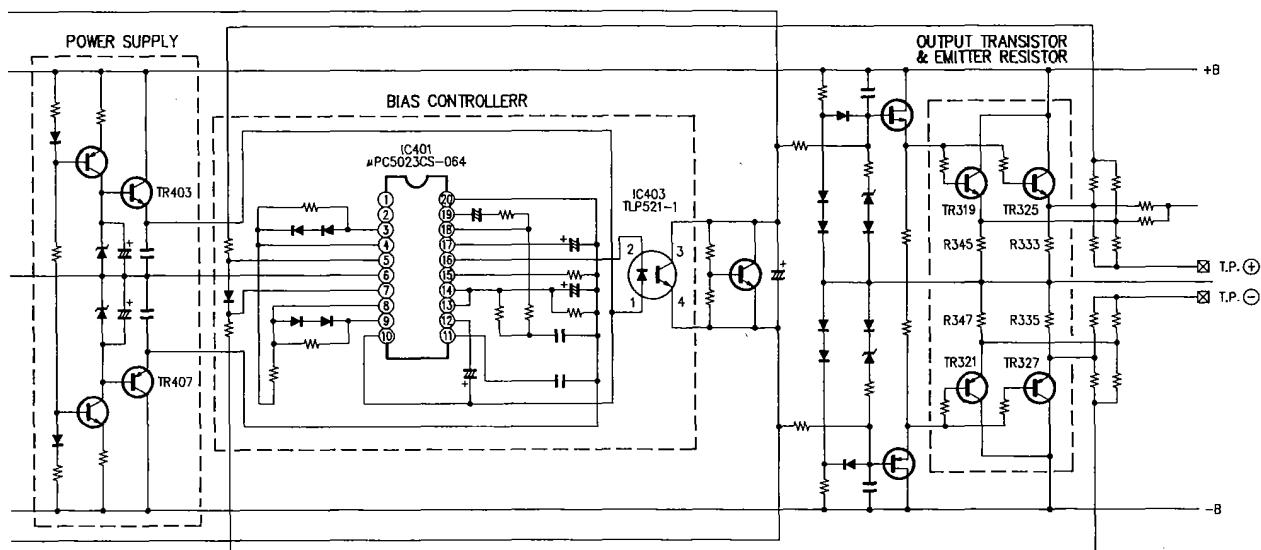
4. IC DESCRIPTION (μ PC5023CS-064)



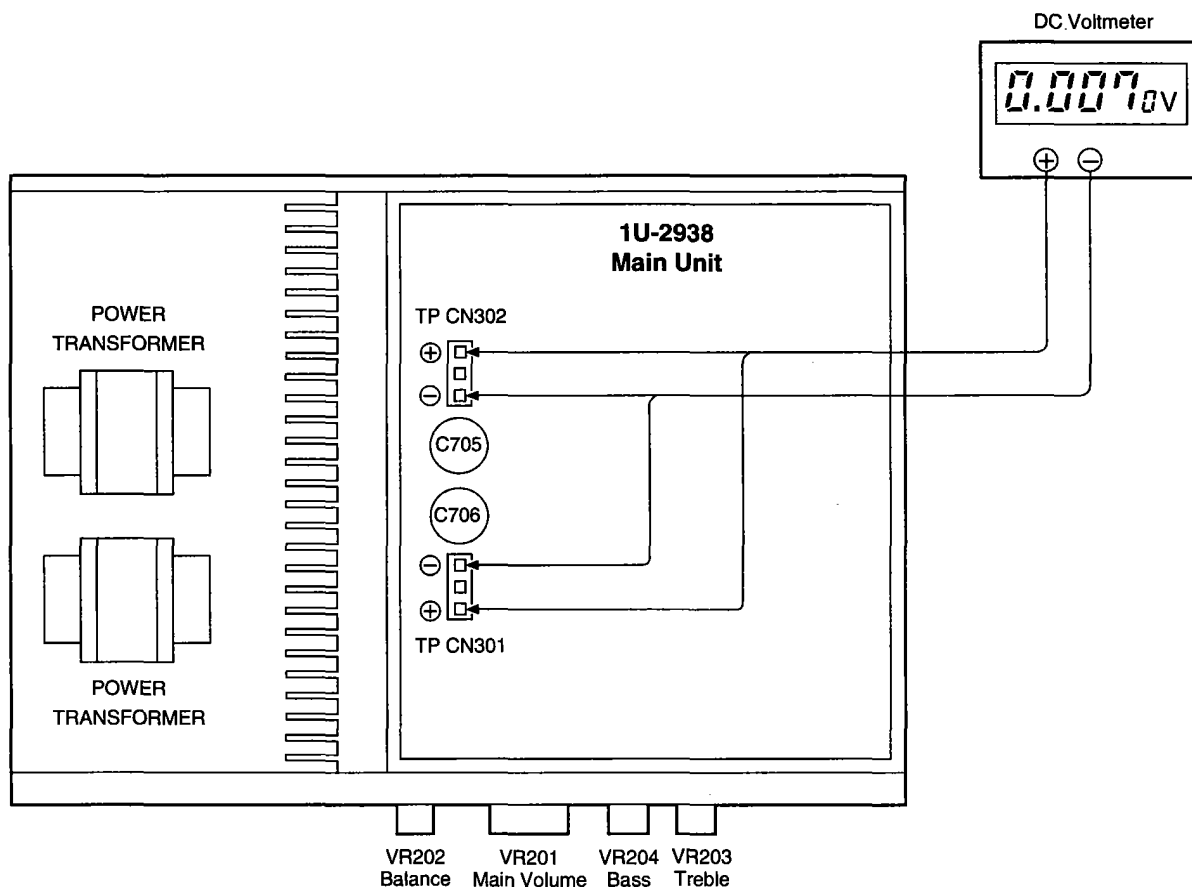
Pin. No.	Name	Contents
1	OPTI	NCP
2	OPTO	
3	NO	Comparator output
4	N-I	Comparator input (-)
5	N+I	Comparator input (+)
6	GND	Floating common
7	P+I	Comparator input (+)
8	P-I	Comparator input (-)
9	PO	Comparator output
10	V+	+ Power supply

Pin. No.	Name	Contents
11	ZDI	Control signal stabilizer input
12	ZDO	Control signal stabilizer output
13	PH-I	Peak hold input
14	PHO	Peak hold output
15	EAEQ	Controller gain setting
16	EACO	Control signal output
17	EA+I	Reference voltage
18	EA-I	Comparator gain setting
19	EAO	Comparator output
20	V-	- Power supply

5. CIRCUIT IN THE CONCRETE



METHOD OF ADJUSTMENTS



IDLING CURRENT

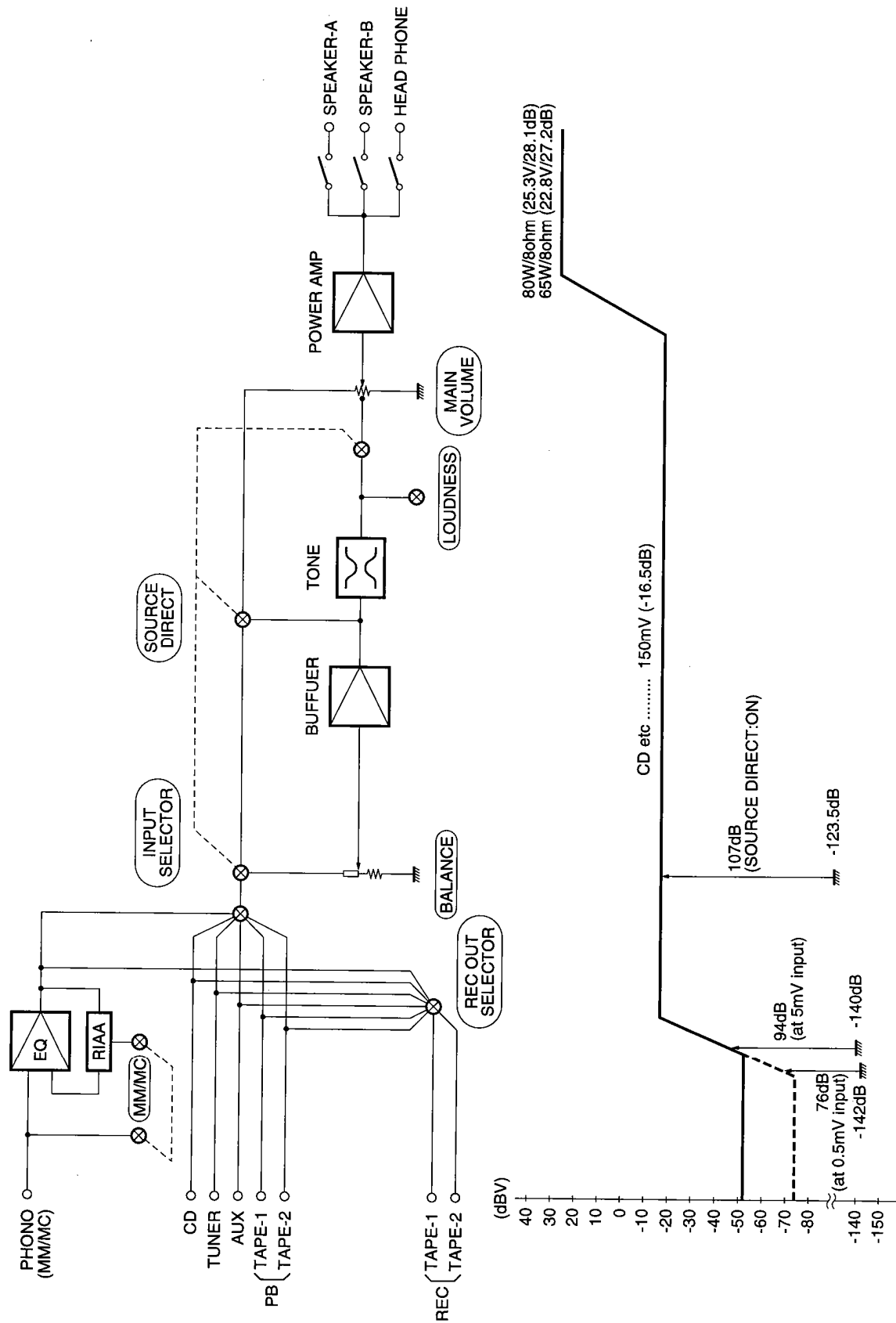
● Setup

1. Lay the unit at an ordinary position away from a direct current from a cooler or fan. Do the adjustment at a temperature between 15°C (59°F) and 30°C (86°F).
2. Set controls as follows.
 POWER SWITCH → OFF (■)
 VOLUME CONTROL → fully counterclockwise. (↺) min. (Main Volume VR201)
 (VR202, 203 and 204 are center position.)
 SPEAKER Terminals → open: do not connect the speakers, dummy load etc.

● Confirm

1. Remove Top cover. And then connect DC Voltmeter to Test points of Main Unit.
2. Connect Power cord to AC Outlet, and turn POWER Switch "on" (■).
3. 10 seconds after check to see DC Voltmeter reading is $7 \pm 2\text{mV}$.
4. 2 minutes after re-check DC Voltmeter for $7 \pm 2\text{mV}$ reading.

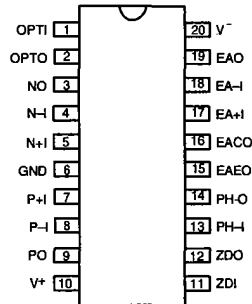
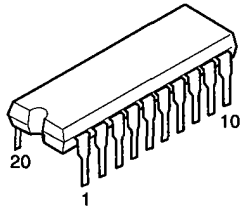
BLOCK AND LEVEL DIAGRAM



SEMICONDUCTORS

● IC's

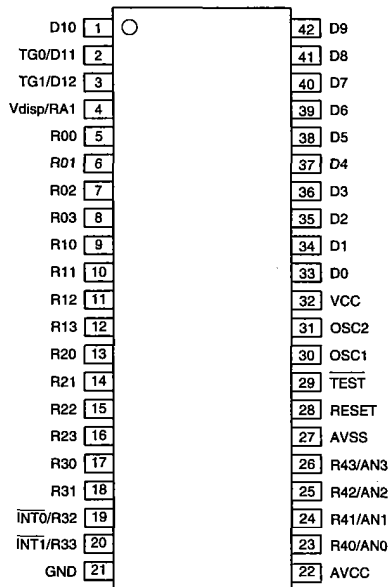
μPC5023CS-064 (IC401,402)



Pin. No.	Name	Contents
1	OPTI	NCP
2	OPTO	
3	NO	Comparator output
4	N-I	Comparator input (-)
5	N+I	Comparator input (+)
6	GND	Floating common
7	P+I	Comparator input (+)
8	P-I	Comparator input (-)
9	PO	Comparator output
10	V+	+ Power supply

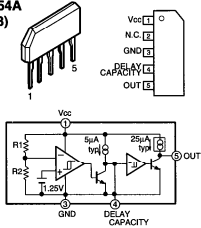
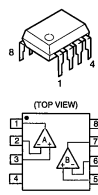
Pin. No.	Name	Contents
11	ZDI	Control signal stabiliser input
12	ZDO	Control signal stabiliser output
13	PH-I	Peak hold input
14	PHO	Peak hold output
15	EAEO	Controller gain setting
16	EACO	Control signal output
17	EA+I	Reference voltage
18	EA-I	Comparator gain setting
19	EAO	Comparator output
20	V-	- Power supply

HD404304A13P (IC801)

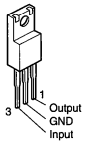
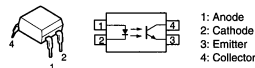
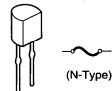
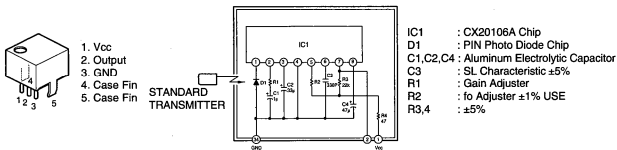


HD404304A13P Terminal Function

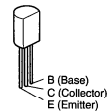
Pin No.	Name	I/O	Contents	Active
1	D10	O	MUTE/STANDBY LED Indication	H
2	TG0/D11	O	NOP	
3	TG1/D12	O	Power Control (REMOTE Power-ON/OFF)	L
4	Vdisp/RA1	I	NOP	
5	R00	O	NOP	
6	R01	O	Muting Control (Power ON-OFF, Function Shifting, MUTING)	L
7	R02	O	SP-A Control	H
8	R03	O	SP-B Control	H
9	R10	O	Key scan strobe	H
10	R11	O		H
11	R12	O		H
12	R13	O	NOP	
13	R20	I	Key scan receive	
14	R21	I		
15	R22	I		
16	R23	I		
17	R30	O	Volume Control "UP" → "H"	H
18	R31	O	Volume Control "DOWN" → "H"	H
19	INT0/R32	I	Power Breakdown detect input	
20	INT1/R33	I	Remote control signal decoding input	
21	GND		GND	
22	AVcc		Avcc (Vcc)	
23	R40/AN0		NOP	
24	R41/AN1	I	NOP	
25	R42/AN2	I	NOP	
26	R43/AN3	I	Discrimination port by user's genre	
27	AVss		AVss (GND)	
28	RESET		M51954A; External	
29	TEST		Vcc	
30	OSC1		Celler Fill Oscillator 4MHz; External	
31	OSC2		Celler Fill Oscillator 4MHz; External	
32	Vcc		Vcc	
33	D0	O	NOP	
34	D1	O	NOP	
35	D2	O	TAPE-2 Control	H
36	D3	O	TAPE-1 Control	H
37	D4	O	NOP	
38	D5	O	AUX Control	H
39	D6	O	TUNER Control	H
40	D7	O	NOP	
41	D8	O	CD Control	H
42	D9	O	PHONO Control	H

**M51954A
(IC803)****BA4558 (IC201, 901)
NJM2068DDC (IC202)**

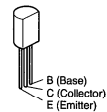
1. A OUTPUT
2. A-INPUT
3. A+INPUT
4. V-
5. B+INPUT
6. B-INPUT
7. B OUTPUT
8. V+

NJM7806FA(S) (IC702)**TLP521-1(BL)
INFRARED LED + PHOTO TRANSISTOR
(IC403, 404)****LB1639 (IC802)****● IC PROTECTOR
ICP-15 (IC701)****SBX1610-52 (Remote Control Receiver) (IC105)****● TRANSISTORS**

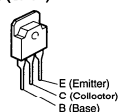
2SA970 (BL), (BL/GR)
2SA988 (E/F)
2SC1841 (E/F)
2SC1815 (BL)
2SC2240 (BL/GR)



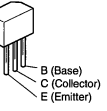
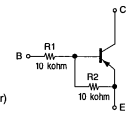
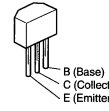
2SA1145 (O)/(Y)
2SC2705 (O)/(Y)



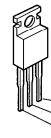
2SA1491 (O/P/Y)/(Z) PMA-925R
2SC3855 (O/P/Y)/(Z) PMA-925R
2SB1560 (O/P/Y) PMA-725R
2SD2390 (O/P/Y) PMA-725R



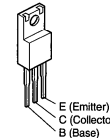
2SA1038S (S/E)
2SA933S (S)
2SC2389S (S/E)
2SC1740S (S)

**DTA114ES**

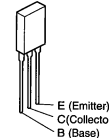
2SJ78
2SK215



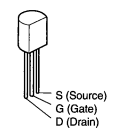
2SD2395 (E/F)
2SB1566 (E/F)



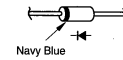
2SB1328 (P)



2SK369 (BL)/(GR)-C

**● DIODES (including LED)**

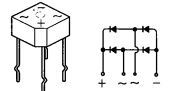
1SS252



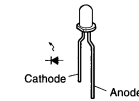
MTZJ 3.9A
MTZJ 7.5A
MTZJ 18A



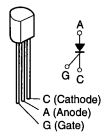
S4VB20F (D702) PMA-725R
4D4B42 (D702) PMA-925R



SLR56-VR (Red)
SLR56-DU (Orange)



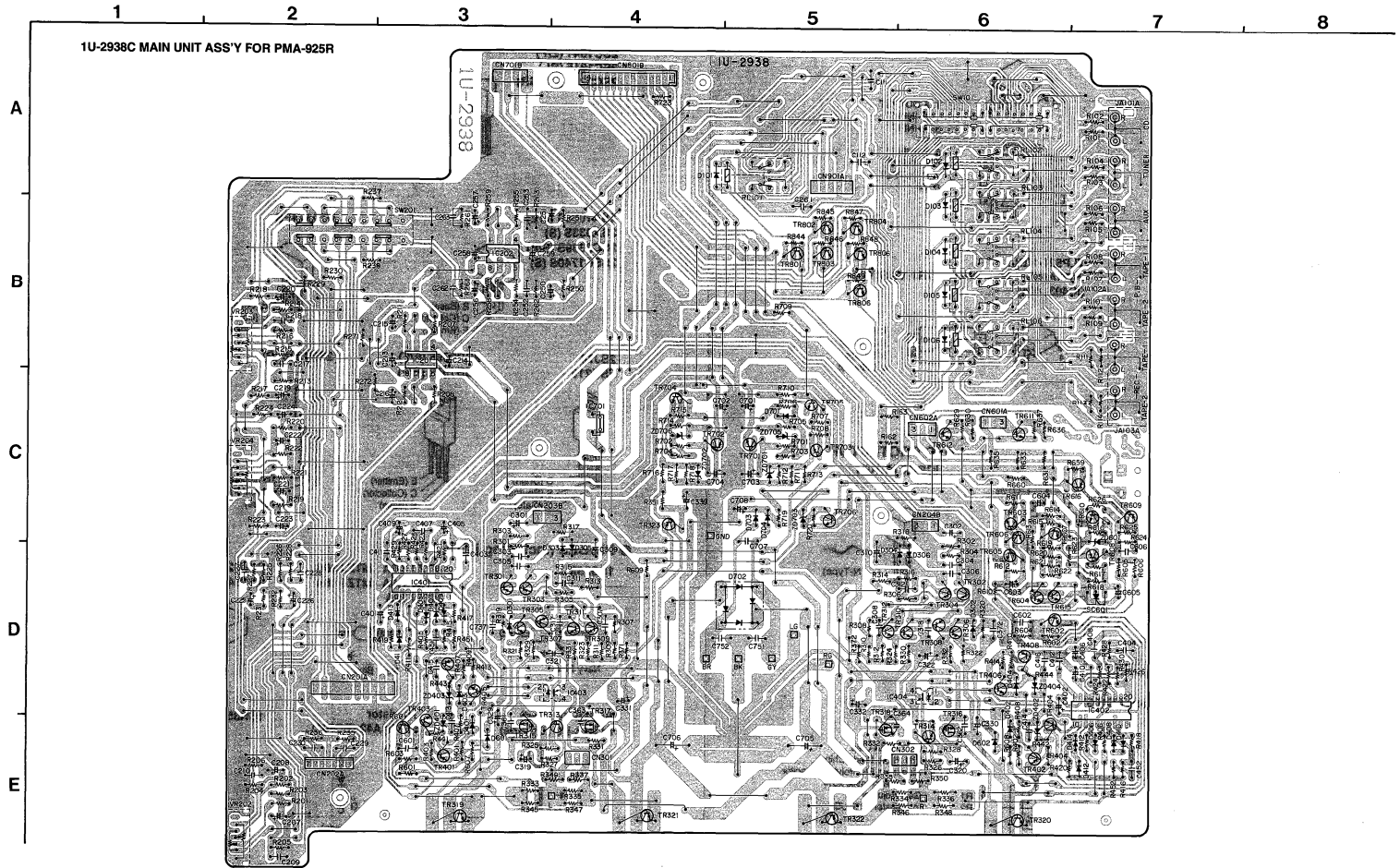
Thyristor
SF0R1A42 (SC601)



1SR35-200A

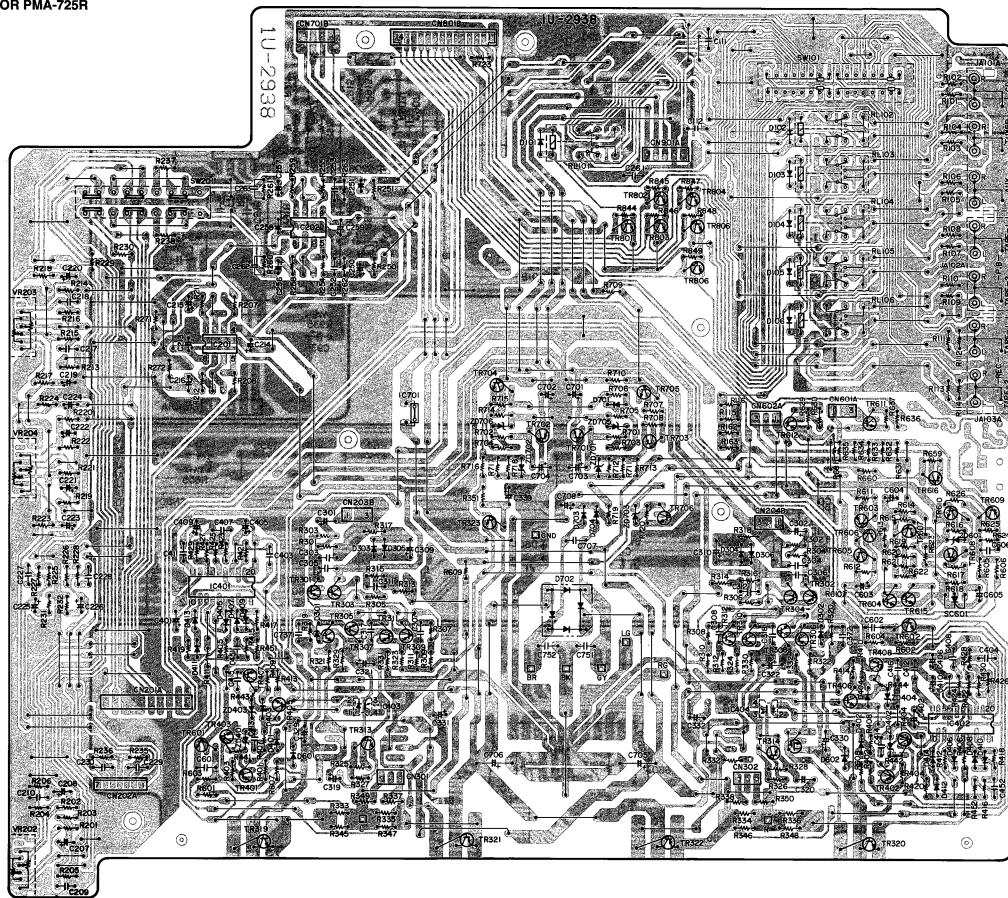


PRINTED WIRING BOARD (Pattern Side)



1 2 3 4 5 6 7 8

1U-2938 MAIN UNIT ASS'Y FOR PMA-725R
1U-2938A EUROPE Model
1U-2938B U.K. Model



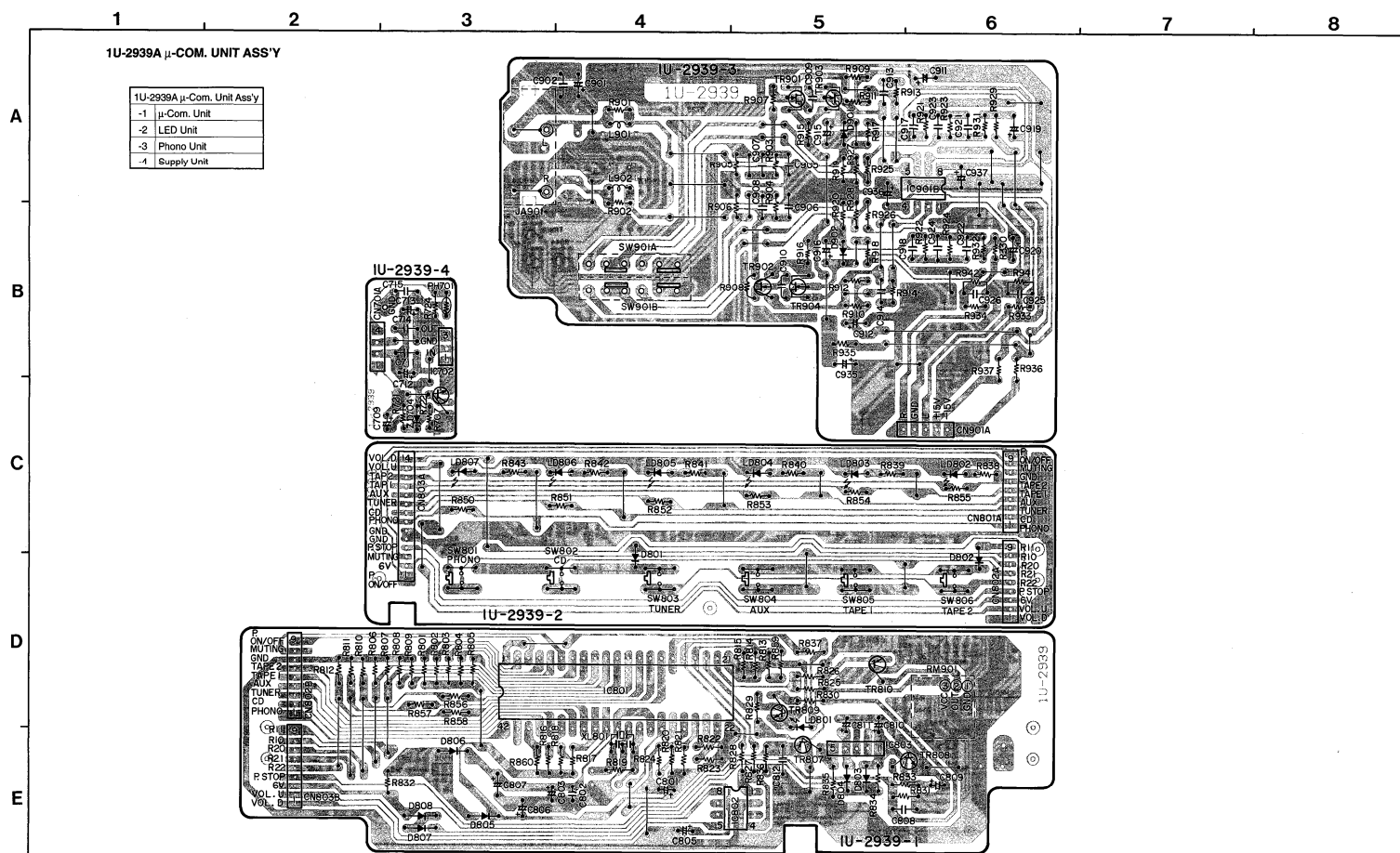
A

B

C

D

E



NOTE FOR PARTS LIST

- Part indicated with the mark "●" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
 - When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.
 - Ordering part without stating its part number can not be supplied.
 - Part indicated with the mark "●" is not illustrated in the exploded view.
 - Not including Carbon Film $\pm 5\%$, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- WARNING:**
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Resistors

Ex:	RN	14K	2E	182	G	FR
	Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon			2B : 1/8W	F : $\pm 1\%$		P : Pulse-resistant type
RE : Compositel			2C : 1/4W	G : $\pm 2\%$		RL : Low noise type
RG : Metal oxide film			2H : 1/2W	J : $\pm 5\%$		NB : Non-burning type
RH : Wirewound			3A : 1W	K : $\pm 10\%$		PN : Fuse-resistor
RN : Metal film			3D : 2W	M : $\pm 20\%$		F : Lead wire forming
RM : Metal mixture			3F : 3W			
			3H : 5W			

- Resistance
- Ex: $\frac{1}{1} \frac{8}{2} \Rightarrow 1800 \text{ ohm} = 1.8 \text{ kohm}$
Indicates number of zeros after effective number.
2-digit effective number.
- Units: ohm
- Ex: $\frac{1}{1} \frac{R}{2} \Rightarrow 1.2 \text{ ohm}$
1-digit effective number.
2-digit effective number, decimal point indicated by R.
- Units: ohm

Capacitors

Ex:	CE	04W	1H	2R2	M	BP
	Type	Shape	Dielectric and per- formance	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic	0J : 6.3V	F : ±1%	NS : High stability type			
CA : Aluminum solid electrolytic	1A : 10V	G : ±5%	BP : Non-polar type			
CS : Tantalum electrolytic	1C : 16V	J : ±5%	HR : Ripple-resistant type			
CO : Film	1E : 25V	K : ±10%	OL : For charge and discharge			
CK : Ceramic	1V : 35V	M : ±20%	HF : For ensuring high frequency			
CC : Ceramic	1H : 50V	Z : ±80%	U : UL part			
CP : Oil	3A : 100V	30% : 30%	C : CSA type			
CM : Mica	3B : 125V	P : ±100%	W : UL-CSA type			
CF : Metallized	2C : 160V	40% : 40%	F : Lead wire forming			
CH : Metallized	2D : 200V	C : ±0.25pF				
	2E : 250V	D : ±0.5pF				
	2H : 500V	Others : Others				
	2J : 630V					

- Capacity (electrolyte only)
- Ex: $\frac{2}{2} \frac{2}{2} \Rightarrow 2200\mu\text{F}$
Indicates number of zeros after effective number.
2-digit effective number.
- Units: μF
- Ex: $\frac{2}{2} \frac{R}{2} \Rightarrow 2.2\mu\text{F}$
1-digit effective number.
2-digit effective number, decimal point indicated by R.
- Units: μF
- Capacity (except electrolyte)
- Ex: $\frac{2}{2} \frac{2}{2} \Rightarrow 2200\text{pF} = 0.0022\mu\text{F}$
(More than 2) — indicates number of zeros after effective number.
2-digit effective number.
- Units: pF
- Ex: $\frac{2}{2} \frac{2}{1} \Rightarrow 220\text{pF}$
(0 or 1) — indicates number of zeros after effective number.
2-digit effective number.
- Units: pF
- When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y
1U-2938C MAIN UNIT ASS'Y (PMA-925R)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				RESISTORS GROUP			
IC201	263 0322 004	IC BA4558	Linear ope. amp	 D702	276 0424 005	Diode 4D4B42(LC1)	Bridge
IC202	263 0609 002	IC NJM2068DDC		D703,704	276 0553 905	Diode 1SR35-200A	
IC401,402	263 0930 001	IC $\mu\text{PC5023CS-064}$	Bias IC	ZD401-404	276 0643 954	Zener diode MTZJ3.9A	3.9 V
IC403,404	262 0874 009	IC TLP521-1(BL)		ZD601	276 0644 911	Zener diode MTZJ7.5A	7.5 V
IC701	268 0073 905	IC ICP-N15	IC protector	ZD701,702	276 0645 978	Zener diode MTZJ36A	36 V
TR301-304	271 0094 919	Transistor 2SA970(BL)		ZD703	276 0644 911	Zener diode MTZJ7.5A	7.5 V
TR305,306	271 0131 924	Transistor 2SA988(E/F)		ZD705,706	276 0645 907	Zener diode MTZJ18A	18 V
TR307-312	273 0235 923	Transistor 2SC1841(E/F)		SC601	279 0016 904	Thyristor SF0R1A42	
TR313,314	273 0303 910	Transistor 2SC1740S(S)		RESISTORS GROUP			
TR315,316	275 0069 001	Transistor 2SK215	N type FET	VR202	211 0798 103	Variable resistor 100kohm	Balance
TR317,318	275 0068 002	Transistor 2SK278	P type FET	VR203	211 0834 012	Variable resistor 10kohm	Treble
TR323	271 0131 924	Transistor 2SA988(E/F)		VR204	211 0834 009	Variable resistor 30kohm	Bass
TR401,402	271 0280 901	Transistor 2SA1038S(S/E)		 R118	244 0157 003	Metal oxide 2.2kohm 5W	RS14B3F222J(NBS)(S)
TR403,404	273 0281 906	Transistor 2SC2705(O)(V)		 R182	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222J(NBS)(S)
TR405,406	273 0432 904	Transistor 2SC2389S(S/E)		 R309-312	241 2380 963	Carbon film 2.2kohm 1/4W	RD14B2E222J(NBS)
TR407,408	271 0168 900	Transistor 2SA1145(O)(V)		 R317,318	241 2377 963	Carbon film 120kohm 1/4W	RD14B2E121J(NBS)
TR601,602	273 0235 923	Transistor 2SC1841(E/F)		 R319-322	241 2377 976	Carbon film 130kohm 1/4W	RD14B2E131J(NBS)
TR603-605	273 0303 910	Transistor 2SC1740S(S)		 R323,324	241 2315 967	Fusible resistor 68ohm 1/4W	RD14B2E680GF(S)
TR606	271 0192 905	Transistor 2SA933S(S)		 R325,326	241 2380 950	Carbon film 2kohm 1/4W	RD14B2E202J(NBS)
TR607	273 0235 923	Transistor 2SC1841(E/F)		 R327,328	241 2379 929	Carbon film 560ohm 1/4W	RD14B2E561J(NBS)
TR608	271 0094 935	Transistor 2SA970(BL/GR)		 R331,332	241 2378 920	Carbon film 220ohm 1/4W	RD14B2E221J(NBS)
TR609	272 0107 906	Transistor 2SB1328(P)		 R333-336	244 2043 882	Metal oxide 0.22ohm 1W	RS14B3AP22J(NBS)(S)
TR610-612	273 0235 923	Transistor 2SC1841(E/F)		 R345-348	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3AP22J(NBS)(S)
TR615	273 0303 910	Transistor 2SC1740S(S)		 R351	241 2378 887	Carbon film 1kohm 1/4W	RD14B2E102J(NBS)
TR616	272 0107 906	Transistor 2SB1328(P)		 R401,402	241 2379 916	Carbon film 510ohm 1/4W	RD14B2E511J(NBS)
TR701	274 0168 006	Transistor 2SD2396(E/F)		 R403,404	241 2378 946	Carbon film 270ohm 1/4W	RD14B2E271J(NBS)
TR702	272 0129 007	Transistor 2SB1566(E/F)		 R408,410	241 2379 916	Carbon film 510ohm 1/4W	RD14B2E511J(NBS)
TR703	271 0280 901	Transistor 2SA1038S(S/E)		 R413,414	241 2378 946	Carbon film 270ohm 1/4W	RD14B2E271J(NBS)
TR704,705	273 0432 904	Transistor 2SC2389S(S/E)		 R441-444	241 2378 967	Carbon film 1kohm 1/4W	RD14B2E102J(NBS)
TR706	273 0303 910	Transistor 2SC1740S(S)		 R601-604	241 2380 950	Carbon film 2kohm 1/4W	RD14B2E202J(NBS)
TR801-806	273 0235 923	Transistor 2SC1841(E/F)		 R631	244 2049 018	Metal oxide 3kohm 5W	RS14B3H302J(NBS)(S)
D101-106	276 0616 907	Diode 1SS252		 R633	244 2049 018	Metal oxide 3kohm 5W	RS14B3H302J(NBS)(S)
D301-306	276 0616 907	Diode 1SS252		 R635	244 2049 018	Metal oxide 3kohm 5W	RS14B3H302J(NBS)(S)
D351,352	276 0616 907	Diode 1SS252		 R711,712	244 2043 908	Metal oxide 680ohm 1W	RS14B3A681J(NBS)(S)
D401-414	276 0616 907	Diode 1SS252		 R713	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7J(NBS)
D601,602	276 0616 907	Diode 1SS252		 R716	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7J(NBS)
D701	276 0553 905	Diode 1SR35-200A		 R717,718	244 2043 908	Metal oxide 680ohm 1W	RS14B3A681J(NBS)(S)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP							
C111,112	253 4444 907	Ceramic cap. 220pF/50V	CC45SL1H221J	C701,702	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C207,208	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M	C703,704	254 4261 921	Electrolytic 100μF/50V	CE04W1H101M
C209,210	253 4537 982	Ceramic cap. 56pF/50V	CC45SL1H560J	C705,706	254 6206 007	Electrolytic 12000μF/63V	CE68W1J123MC(DL)
C213,214	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M	C707	256 1042 903	Metalized 0.1μF/250V	CF93A2E104K
C215,216	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M	C708	254 4263 916	Electrolytic 0.22μF/100V	CE04W2AR22M
C217,218	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)				
C219,220	254 4260 919	Electrolytic 0.22μF/50V	CE04W1HR22M				
C221,222	254 4260 906	Electrolytic 0.1μF/50V	CE04W1H0R1M				
C223,224	254 4260 935	Electrolytic 0.47μF/50V	CE04W1HR47M				
C225,226	254 4260 922	Electrolytic 0.33μF/50V	CE04W1HR33M				
C227,228	256 1034 953	Metalized 0.068μF/50V	CF93A1H683J				
C229,230	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)				
C250,251	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M				
C252,253	255 4237 929	Film cap. 56pF/100V	CQ93P2A560J(NH)				
C256,257	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M				
C258,259	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M				
C261	253 1181 917	Ceramic cap. 0.022μF/50V	CK45F1H223Z				
C262,263	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)				
C301,302	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M				
C303,304	255 4235 918	Film cap. 100pF/100V	CQ93P2A101J(NH)				
C305,306	255 6177 980	Film cap. 220pF/50V	CQ09S1H221J(STM)				
C307,308	255 1264 908	Film cap. 1000pF/50V	CQ93M1H102J(B)				
C309,310	254 4252 082	Electrolytic 2200μF/10V	CE04W1A222M				
C311,312	255 4237 929	Film cap. 56pF/100V	CQ93P2A560J(NH)				
C317,318	253 4470 900	Ceramic cap. 10pF/500V	CC45SL2H100D				
C319-322	254 4261 921	Electrolytic 100μF/50V	CE04W1H101M				
C329-332	254 4262 904	Electrolytic 4.7μF/63V	CE04W1J4R7M				
C339	254 4262 755	Electrolytic 100μF/63V	CE04W1J101MC				
C361,362	253 4490 906	Ceramic cap. 68pF/500V	CC45SL2H680J				
C363,364	253 4470 900	Ceramic cap. 10pF/500V	CC45SL2H100D				
C371,372	255 6178 947	Film cap. 680pF/50V	CQ09S1H681J(STM)				
C401,402	254 4261 918	Electrolytic 47μF/50V	CE04W1H470M				
C403,404	254 3056 959	Electrolytic 10μF/50V	CE04D1H100MBP (Bipole)				
C405,406	254 4260 993	Electrolytic 22μF/50V	CE04W1H220M				
C407,408	255 1264 908	Film cap. 1000pF/50V	CQ93M1H102J(B)				
C409,410	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M				
C411,412	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)				
C413-416	256 1034 979	Metalized 0.1μF/50V	CF93A1H104J				
C451,452	253 1179 987	Ceramic cap. 470pF/50V	CK45B1H471K				
C601,602	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)				
C603	254 4250 945	Electrolytic 330μF/6.3V	CE04W0J331M				
C604	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M				
C605	254 4252 901	Electrolytic 22μF/10V	CE04W1A220M				
C606	255 1265 978	Film cap. 0.022μF/50V	CQ93M1H223J(B)				

1U-2939A μ -COM UNIT ASS'Y (PMA-925R)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				OTHERS PARTS GROUP			
IC105	499 0150 008	IC SBX1610-52	Remote sensor	C809	254 4196 973	Electrolytic 4.7 μ F/50V	CE04W1H4R7M(SRA)
IC702	263 0793 002	IC NJM7806FA(S)	Regulator +6 V	C810	254 4196 944	Electrolytic 1 μ F/50V	CE04W1H010M(SRA)
IC801	262 1579 303	IC HD404304A13P	μ -com	C811	254 4196 928	Electrolytic 0.33 μ F/50V	CE04W1HR33M(SRA)
IC802	263 0476 002	IC LB1639	Motor driver	C812	256 1034 982	Metallized 0.12 μ F/50V	CF93A1H124J
IC803	263 0535 008	IC M51954AL	Reset IC	C901	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M
IC901	263 0322 004	IC BA4558		C902	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z
TR707	274 0168 006	Transistor 2SD2395(E/F)		C905,906	253 1179 929	Ceramic cap. 150pF/50V	CK45B1H151K
TR807	271 0192 905	Transistor 2SA933S(S)		C907,908	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K
TR808,809	273 0303 910	Transistor 2SC1740S(S)		C909,910	253 1179 903	Ceramic cap. 100pF/50V	CK45B1H101K
TR810	269 0046 906	Transistor DTA114ES	Built in resistor	C911,912	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M
TR901~904	275 0038 045	Transistor 2SK369(BL)/(GR)-C	N type FET Δ VGS	C913,914	255 1251 937	Film cap. 3300pF/50V	CQ92M1H332J(MRZ)
D801~805	276 0616 907	Diode 1SS252		C915,916	254 4252 930	Electrolytic 100 μ F/10V	CE04W1A101M
D806	276 0553 905	Diode 1SR35-200A		C917,918	256 1034 953	Metallized 0.068 μ F/50V	CF93A1H683J
D807,808	276 0616 907	Diode 1SS252		C919,920	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M
D901,902	276 0616 907	Diode 1SS252		C921,922	255 4223 959	Film cap. 0.018 μ F/50V	CQ92M1H183J(MRZ)
ZD704	276 0644 995	Zener diode MTZJ16A	16 V	C923,924	255 1264 911	Film cap. 1200pF/50V	CQ93M1H122J(B)
LD801	393 9559 904	LED SLR-56DUTB7	Orange	C925,926	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K
LD802~807	393 9515 906	LED SLR-56VR70	Red	C935	254 4252 930	Electrolytic 100 μ F/10V	CE04W1A101M
PH701	279 0034 041	Posistor PTH9M04BD222TS2F333		C936,937	254 4256 936	Electrolytic 47 μ F/25V	CE04W1E470M
RESISTORS GROUP				Q'ty			
Δ R832	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS	(1)			
Δ R836,937	241 2377 905	Carbon film 68ohm 1/4W	RD14B2E680JNBS	L901,902	235 9003 002	Inductor (150 μ H)	FTZ choke coil 2
				XL801	399 9018 003	Resonator	CST4.00 MGW 1
				SW801~806	212 4789 001	Tact switch	6
				SW901	212 1099 008	1P push switch	MM/MC 1
					204 8413 000	2P pin jack(C-GND)	PHONO 1
					415 0309 013	P.V.C.tube L=10	for PH701 2
CAPACITORS GROUP							
C709	254 4263 916	Electrolytic 0.22 μ F/100V	CE04W2AR22M				
C711	253 1181 904	Ceramic cap. 0.01 μ F/50V	CK45F1H103Z				
C712,713	254 4260 980	Electrolytic 10 μ F/50V	CE04W1H100M				
C714,715	253 1181 904	Ceramic cap. 0.01 μ F/50V	CK45F1H103Z				
C801	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)				
C802	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z				
C803	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)				
C805	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)				
C806	254 6190 906	Electrolytic 330 μ F/6.3V	CE04W0J331M(SRA)				
C807	259 0007 003	Back up cap. 8200 μ F/5.5V	SB CAP=822=				
C808	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z				

1U-2938 MAIN UNIT ASS'Y (PMA-725R)

1U-2938A : Europe model

1U-2938B : U.K. model

1U-2940C VOLUME UNIT ASS'Y (PMA-925R)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				SEMICONDUCTORS GROUP			
TR617,618	273 0235 923	Transistor 2SC1841(E/F)		IC201	263 0322 004	IC BA4558	Linear ope. amp
D001	276 0616 907	Diode 1SS252		IC202	263 0609 002	IC NJM2068DDC	
D441~444	276 0616 907	Diode 1SS252		IC401,402	263 0930 001	IC μ PC5023CS-064	Bias IC
D610~612	276 0616 907	Diode 1SS252		IC403,404	262 0874 009	IC TLP521-1(BL)	
RESISTORS GROUP(Not included carbon film $\pm 5\%$, 1/4W)				IC701	268 0073 905	IC ICP-N15	IC protector
VR201	211 0869 003	Variable resistor 30kohm	Main volume	TR301~304	271 0094 919	Transistor 2SA970(BL)	
Δ R341,342	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3AP22JNBS(S)	TR305,306	271 0131 924	Transistor 2SA988(E/F)	
Δ R501,502	244 2043 937	Metal oxide 10ohm 1W	RS14B3A100JNBS(S)	TR307~312	273 0235 923	Transistor 2SC1841(E/F)	
Δ R505~508	244 2050 933	Metal oxide 180ohm 1W	RS14B3A181JNBS(S)	TR313,314	273 0303 910	Transistor 2SC1740S(S)	
Δ R652	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB	TR323	271 0131 924	Transistor 2SA988(E/F)	
Δ R653	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNB(S)	TR401,402	271 0280 901	Transistor 2SA1038S(S/E)	
Δ R654	244 2069 005	Metal oxide 2.4kohm 5W	RS14B3H242JNB(S)	TR403,404	273 0281 906	Transistor 2SC2705(O)/(Y)	
Δ R655	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNB(S)	TR405,406	273 0432 904	Transistor 2SC2389S(S/E)	
Δ R656	244 2069 005	Metal oxide 2.4kohm 5W	RS14B3H242JNB(S)	TR407,408	271 0168 900	Transistor 2SA1145(O)/(Y)	
Δ R660	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB	TR601,602	273 0235 923	Transistor 2SC1841(E/F)	
CAPACITORS GROUP				TR603~605	273 0303 910	Transistor 2SC1740S(S)	
Δ C002	253 8003 713	Ceramic cap. 4700pF/400V AC	CK45E2GAC472MC	TR606	271 0192 905	Transistor 2SA933S(S)	
C203,204	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M	TR607	273 0235 923	Transistor 2SC1841(E/F)	
C205	255 1265 936	Film cap. 0.01 μ F/50V	CQ93M1H103J(B)	TR608	271 0094 935	Transistor 2SA970(BL/GR)	
C501,502	256 1034 979	Metalized 0.1 μ F/50V	CF93A1H104J	TR609	272 0107 906	Transistor 2SB1328(P)	
OTHERS PARTS GROUP				TR610	273 0235 923	Transistor 2SC1841(E/F)	
	—	(P.W.board)	Q'ty	TR611	273 0235 923	Transistor 2SC1841(E/F)	
L301,302	235 0104 007	Inductor(1mH)	(1)	R612	273 0235 923	Transistor 2SC1841(E/F)	Europe model only
	202 0022 008	Fuse holder	2	TR615	273 0303 910	Transistor 2SC1740S(S)	
Δ F001	206 1015 032	Fuse(2.5A)	for F001,002 4	TR616	272 0107 906	Transistor 2SB1328(P)	
Δ F002	206 1015 029	Fuse(1A T)	1	TR701	274 0168 006	Transistor 2SD2395(E/F)	
	513 0654 017	Fuse label (T. 25A)	for F001 1	TR702	272 0129 007	Transistor 2SB1566(E/F)	
Δ	415 0299 000	Capacitor cover	for C002 1	TR703	271 0280 901	Transistor 2SA1038S(S/E)	
Δ RL001	214 0142 004	Relay(TV-5)	1	TR704,705	273 0432 904	Transistor 2SC2389S(S/E)	
RL601,602	214 0129 001	Relay(DH2TU)	for SP-A,B 2	TR706	273 0303 910	Transistor 2SC1740S(S)	
RL603	214 0178 007	Relay(MR62-12USRY)	for Headphone 1	TR801~806	273 0235 923	Transistor 2SC1841(E/F)	
SW501	212 1162 003	3P push switch	for Speaker ON-OFF 1	D101~106	276 0616 907	Diode 1SS252	
	205 0484 001	8P speaker terminal	for Speaker 1	D301~306	276 0616 907	Diode 1SS252	
	204 8503 004	:Head phone jack	JA501 1	D351,352	276 0616 907	Diode 1SS252	
Δ	203 3950 002	3P AC outlet	AOL-1 1	D401~414	276 0616 907	Diode 1SS252	
Δ	205 0692 000	2P wrapping terminal	1	D601,602	276 0616 907	Diode 1SS252	
				D701	276 0553 905	Diode 1SR35-200A	

Ref. No.	Part No.	Part Name	Remarks
△D702	276 0338 007	Diode S4VB20F	Bridge
D703,704	276 0553 905	Diode 1SR35-200A	
ZD401~404	276 0643 954	Zener diode MTZJ3.9A	3.9 V
ZD601	276 0644 911	Zener diode MTZJ7.5A	7.5 V
ZD701,702	276 0645 978	Zener diode MTZJ36A	36 V
ZD703	276 0644 911	Zener diode MTZJ7.5A	7.5 V
ZD705,706	276 0645 907	Zener diode MTZJ18A	18 V
SC601	279 0016 904	Thyristor SF0R1A42	

RESISTORS GROUP

VR202	211 0798 103	Variable resistor 100kohm	Balance
VR203	211 0834 012	Variable resistor 10kohm	Treble
VR204	211 0834 009	Variable resistor 30kohm	Bass
△R115,116	244 2051 974	Metal oxide 1kohm 1W	RS14B3A102JNBS(S)
△R162,163	244 2051 974	Metal oxide 1kohm 1W	RS14B3A102JNBS(S)
△R309~312	241 2380 963	Carbon film 2.2kohm 1/4W	RD14B2E222JNBS
△R317,318	241 2377 963	Carbon film 120ohm 1/4W	RD14B2E121JNBS
△R319~322	241 2377 976	Carbon film 130ohm 1/4W	RD14B2E131JNBS
△R323,324	241 2315 967	Fusible resistor 68ohm 1/4W	RD14B2E680GFRS
△R325,326	241 2380 950	Carbon film 2kohm 1/4W	RD14B2E202JNBS
△R327,328	241 2379 929	Carbon film 560ohm 1/4W	RD14B2E561JNBS
△R333~336	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3A222JNBS(S)
△R345~348	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3A222JNBS(S)
△R351	241 2379 987	Carbon film 1kohm 1/4W	RD14B2E102JNBS
△R401,402	241 2379 916	Carbon film 510ohm 1/4W	RD14B2E511JNBS
△R403,404	241 2378 946	Carbon film 270ohm 1/4W	RD14B2E271JNBS
△R409,410	241 2379 916	Carbon film 510ohm 1/4W	RD14B2E511JNBS
△R413,414	241 2378 946	Carbon film 270ohm 1/4W	RD14B2E271JNBS
△R441~444	241 2379 987	Carbon film 1kohm 1/4W	RD14B2E102JNBS
△R601~604	241 2380 950	Carbon film 2kohm 1/4W	RD14B2E202JNBS
△R631~633	244 2051 990	Metal oxide 4.7kohm 1W	RS14B3A472JNBS(S)
△R634,635	244 2052 957	Metal oxide 5.6kohm 1W	RS14B3A562JNBS(S)
△R681	244 2052 957	Metal oxide 5.6kohm 1W	RS14B3A562JNBS(S)
△R711,712	244 2043 908	Metal oxide 680ohm 1W	RS14B3A681JNBS(S)
△R713	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS
△R716	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS
△R717,718	244 2043 908	Metal oxide 680ohm 1W	RS14B3A681JNBS(S)

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
C111,112	253 4444 907	Ceramic cap. 220pF/50V	CC45SL1H221J
C207,208	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M
C209,210	253 4537 982	Ceramic cap. 56pF/50V	CC45SL1H560J
C213,214	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C215,216	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
C217,218	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)
C219,220	254 4260 919	Electrolytic 0.22μF/50V	CE04W1HR22M
C221,222	254 4260 906	Electrolytic 0.1μF/50V	CE04W1H0R1M
C223,224	254 4260 935	Electrolytic 0.47μF/50V	CE04W1HR47M
C225,226	254 4260 922	Electrolytic 0.33μF/50V	CE04W1HR33M
C227,228	256 1034 953	Metalized 0.068μF/50V	CF93A1H683J
C229,230	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)
C250,251	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
C252,253	255 4237 929	Film cap. 56pF/100V	CQ93P2A560J(NH)
C256,257	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
C258,259	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C261	253 1181 917	Ceramic cap. 0.022μF/50V	CK45F1H223Z
C262,263	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)
C301,302	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
C303,304	255 4235 918	Film cap. 100pF/100V	CQ93P2A101J(NH)
C305,306	255 6177 980	Film cap. 220pF/50V	CQ09S1H221J(STM)
C307,308	255 1264 908	Film cap. 1000pF/50V	CQ93M1H102J(B)
C309,310	254 4252 082	Electrolytic 2200μF/10V	CE04W1A222M
C311,312	255 4237 929	Film cap. 56pF/100V	CQ93P2A560J(NH)
C317,318	253 4470 900	Ceramic cap. 10pF/500V	CC45SL2H100D
C319~322	254 4261 921	Electrolytic 100μF/50V	CE04W1H101M
C329~332	254 4262 904	Electrolytic 4.7μF/63V	CE04W1J4R7M
C339	254 4262 755	Electrolytic 100μF/63V	CE04W1J101MC
C371,372	255 6178 947	Film cap. 680pF/50V	CQ09S1H681J(STM)
C401,402	254 4261 918	Electrolytic 47μF/50V	CE04W1H470M
C403,404	254 3056 959	Electrolytic 10μF/50V	CE04D1H100MBP (Bipole)
C405,406	254 4260 993	Electrolytic 22μF/50V	CE04W1H220M
C407,408	255 1264 908	Film cap. 1000pF/50V	CQ93M1H102J(B)
C409,410	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C411,412	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)
C413~416	256 1034 979	Metalized 0.1μF/50V	CF93A1H104J
C451,452	253 1179 987	Ceramic cap. 470pF/50V	CK45B1H471K
C601,602	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)
C603	254 4250 945	Electrolytic 330μF/6.3V	CE04W0J331M
C604	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M
C605	254 4252 901	Electrolytic 22μF/10V	CE04W1A220M
C606	255 1265 978	Film cap. 0.022μF/50V	CQ93M1H223J(B)
C701,702	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C703,704	254 4261 921	Electrolytic 100μF/50V	CE04W1H101M

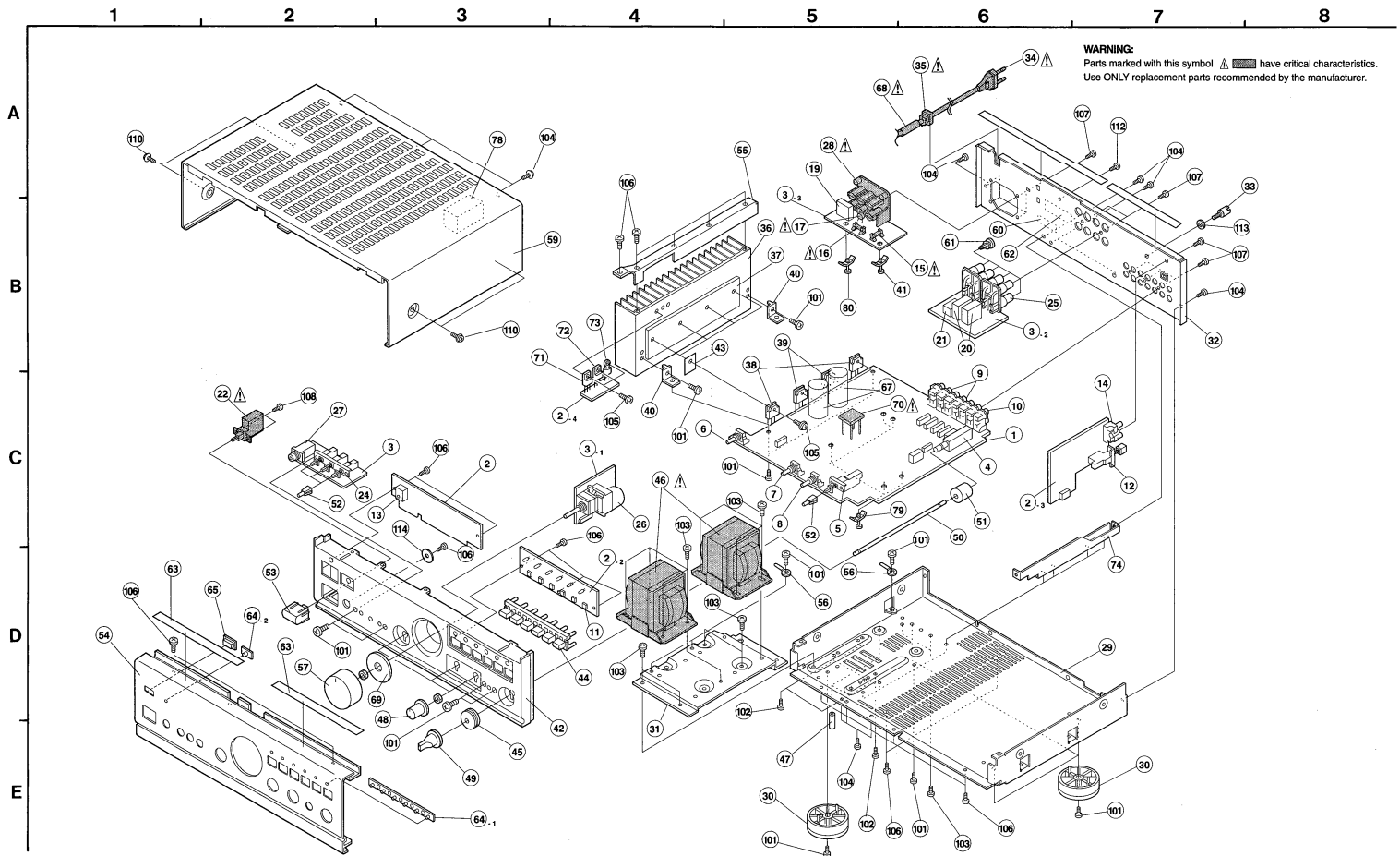
1U-2939A μ -COM UNIT ASS'Y (PMA-725R)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
C705,706	254 8205 008	Electrolytic 10000 μ F/51V	CE68W==103MC(DL)	
C707	256 1042 903	Metalized 0.1 μ F/250V	CF83A2E104K	
C708	254 4263 916	Electrolytic 0.22 μ F/100V	CE04W2AR22M	
OTHERS PARTS GROUP				
SW101	212 0336 005	Rotary switch	Rec out sel.	1
SW202	212 1161 004	1P push switch	Source direct	1
RL101-106	214 0178 007	Relay(MR62-12USRY)		6
204 8256 008	4P pin jack(S-GND)		for TAPE	2
204 8278 009	6P pin jack(S-GND)		for INPUTS	1
SEMICONDUCTORS GROUP				
IC105	499 0150 008	IC SBX1610-52	Remote sensor	
IC702	263 0793 002	IC NJM7906FA(S)	Regulator +6V	
IC801	262 1579 303	IC HD404304A13P	μ -com	
IC802	263 0476 002	IC LB1639	Motor driver	
IC803	263 0535 008	IC M51954AL	Reset IC	
IC801	263 0322 004	IC BA4558		
TR707	274 0168 006	Transistor 2SD2395(E/F)		
TR807	271 0192 905	Transistor 2SA933S(S)		
TR808,809	273 0303 910	Transistor 2SC1740S(S)		
TR810	269 0046 906	Transistor DTA114ES	Built in resistor	
TR901-904	275 0038 045	Transistor 29K369(BLJ)GR-C	N type FET +VGS	
D801-805	276 0616 907	Diode 1SS252		
D806	276 0553 905	Diode 1SR35-200A		
D807,808	276 0616 907	Diode 1SS252		
D901,902	276 0616 907	Diode 1SS252		
ZD704	276 0644 995	Zener diode MTZJ16A	16 V	
LD801	393 9559 904	LED SLR-56DUTB7	Orange	
LD802-807	393 9515 906	LED SLR-56VR70	Red	
PH701	279 0034 041	Poisistor PTH9M04BD222TS2F333		
RESISTORS GROUP				
Δ R832	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS	
Δ R836,837	241 2377 905	Carbon film 68ohm 1/4W	RD14B2E68JNBS	
CAPACITORS GROUP				
C709	254 4263 916	Electrolytic 0.22 μ F/100V	CE04W2AR22M	
C711	253 1181 904	Ceramic cap. 0.01 μ F/50V	CK45F1H103Z	
C712,713	254 4260 980	Electrolytic 10 μ F/50V	CE04W1H100M	
C714,715	253 1181 904	Ceramic cap. 0.01 μ F/50V	CK45F1H103Z	
C801	254 4213 937	Electrolytic 100 μ F/6.3V	CE04WUJ101M(SRA)	
C802	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z	
C803	254 4213 937	Electrolytic 100 μ F/6.3V	CE04WUJ101M(SRA)	
C805	254 4213 937	Electrolytic 100 μ F/6.3V	CE04WUJ101M(SRA)	
C806	254 6190 906	Electrolytic 330 μ F/6.3V	CE04WUJ331M(SRA)	
C807	259 0007 003	Back up cap. 8200 μ F/5.5V	SB CAP==822=	
C808	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z	

1U-2940 VOLUME UNIT ASS'Y
1U-2940A : Europe model
1U-2940B : U.K. model

Ref. No.	Part No.	Part Name	Remarks	Q'ty
C809	254 4196 973	Electrolytic 4.7 μ F/50V	CE04W1H4R7M(SRA)	
C810	254 4196 944	Electrolytic 1 μ F/50V	CE04W1H010M(SRA)	
C811	254 4196 928	Electrolytic 0.33 μ F/50V	CE04W1HR33M(SRA)	
C812	256 1034 982	Metalized 0.12 μ F/50V	CF93A1H124J	
C901	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M	
C902	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H203Z	
C905,906	253 1179 929	Ceramic cap. 150pF/50V	CK45B1H151K	
C907,908	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K	
C909,910	253 1179 903	Ceramic cap. 100pF/50V	CK45B1H101K	
C911,912	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M	
C913,914	255 1251 937	Film cap. 3300pF/50V	C092M1H332J(MRZ)	
C915,916	254 4252 930	Electrolytic 100 μ F/10V	CE04W1A101M	
C917,918	256 1034 953	Metalized 0.068 μ F/50V	CF93A1H683J	
C919,920	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M	
C921,922	255 4223 959	Film cap. 0.018 μ F/50V	C093M1H183J(MRZ)	
C923,924	255 1264 911	Film cap. 1200pF/50V	C093M1H122J(B)	
C925,926	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K	
C935	254 4252 930	Electrolytic 100 μ F/10V	CE04W1A101M	
C936,937	254 4256 936	Electrolytic 47 μ F/25V	CE04W1E470M	
OTHERS PARTS GROUP				
L901,902	235 9003 002	Inductor (150 μ H)	FTZ choke coil	2
XL801	399 9018 003	Resonator	CST4.00 MGW	1
SW801-806	212 4788 001	Tact switch		6
SW901	212 1099 008	1P push switch	MM/MC	1
204 8413 000	2P pin jack(C-GND)		PHONO	1
415 0309 013	P.V.C.tube L=10		for PH701	2
SEMICONDUCTORS GROUP				
TR617,618	273 0235 923	Transistor 2SC1841(E/F)		
D001	276 0616 907	Diode 1SS252	Europe model only	
D441-444	276 0616 907	Diode 1SS252		
D610-612	276 0616 907	Diode 1SS252		
RESISTORS GROUP(Not included carbon film $\pm$5%,1/4W)				
VR201	211 0869 003	Variable resistor 30kohm	Main volume	
Δ R341,342	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3AR22JNBS(S)	
Δ R501,502	244 2043 937	Metal oxide 10ohm 1W	RS14B3A100JNBS(S)	
Δ R505-508	244 2050 933	Metal oxide 180ohm 1W	RS14B3A181JNBS(S)	
Δ R652	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB	
Δ R653	244 2043 940	Metal oxide 2.2kohm 1W	RS14B3A222JNBS(S)	
Δ R654	244 2052 915	Metal oxide 1.8kohm 1W	RS14B3A182JNBS(S)	
Δ R655	244 2043 940	Metal oxide 2.2kohm 1W	RS14B3A222JNBS(S)	
Δ R656	244 2052 915	Metal oxide 1.8kohm 1W	RS14B3A182JNBS(S)	
Δ R660	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB	
CAPACITORS GROUP				
Δ C002	253 8003 713	Ceramic cap. 4700pF/400V AC	CK45E2GAC472MC	
C203,204	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M	
C205	255 1265 936	Film cap. 0.01 μ F/50V	C093M1H103J(B)	
C501,502	256 1034 979	Metalized 0.1 μ F/50V	CF93A1H104J	
OTHERS PARTS GROUP				
L301,302	235 0104 007	Inductor(1mH)		2
202 0022 008	Fuse holder		Europe model	4
202 0022 008	Fuse holder		U.K. model	2
Δ F001	206 1015 061	Fuse(2A)		1
Δ F002	206 1015 029	Fuse(1A T)	Europe model only	1
Δ	415 0359 000	Capacitor cover	for C002	1
Δ RL001	214 0142 004	Relay(TV-S)	Europe model only	1
RL601,602	214 0129 001	Relay(DH7U)	for SP-A,B	2
RL603	214 0178 007	Relay(MR62-12USRY)	for Headphone	1
SW501	212 1162 003	3P push switch	for Speaker ON-OFF	1
205 0484 001	8P speaker terminal		for Speaker	1
204 8503 004	Head phone jack		JA501	1
Δ	203 3850 002	3P AC outlet	ACL-1	1
Δ	206 0692 000	2P wrapping terminal	Europe model only	1

EXPLODED VIEW OF CHASSIS AND CABINET : PMA-925R



PARTS LIST OF EXPLODED VIEW PMA-925R

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-2938 C	Main unit Assy		1s	47	462 0094 007	Screw tube		2
2	1U-2939 A	M-com unit Assy		1s	48	112 0646 000	*Knob(S)	Black model	3
2-1	—	M-com unit		(1)	48	112 0646 013	*Knob(S)	Gold model	3
2-2	—	LED unit		(1)	49	112 0641 102	*Fuji knob	Black model	1
2-3	—	Phono unit		(1)	49	112 0641 115	*Fuji knob	Gold model	1
2-4	—	Supply unit		(1)	50	112 0784 001	Volume knob joint		1
3	1U-2940 C	Volume unit Assy		1s	51	112 0785 000	Volume knob joint (B)		1
3-1	—	Volume unit		(1)	52	113 1745 107	*Push button(Round)	Black model	4
3-2	—	Speaker unit		(1)	52	113 1745 110	*Push button(Round)	Gold model	4
3-3	—	AC outlet unit		(1)	53	113 1738 101	*Power button	Black model	1
3-4	—	Speaker sel. unit		(1)	53	113 1738 114	*Power button	Gold model	1
4	212 0336 005	Rotary switch	SW101 Rec out sel.	1	54	144 2509 207	Front panel	Black model	1
5	212 1161 004	1P push switch	SW202 S.Direct	1	54	144 2509 210	Front panel	Gold model	1
6	211 0796 103	Variable resistor 100kohm	VR202 Balance	1	55	412 4136 005	Radiator bracket		1
7	211 0834 009	Variable resistor 30kohm	VR204 Bass	1	56	445 0348 003	Cord holder L=76		3
8	211 0834 012	Variable resistor 10kohm	VR203 Treble	1	57	112 0789 006	Volume knob Assy	Black model	1
9	204 8236 026	4P pin jack(S-GND)	for TAPE	2	57	112 0789 019	Volume knob Assy	Gold model	1
10	204 8278 009	6P pin jack(S-GND)	for INPUTS	1	58	445 8004 007	Wire clamp		18
11	212 4789 001	Tact switch	SW801-806	6	59	102 0521 128	Top cover	Black model	1
12	212 1099 008	1P push switch	SW901 MMMC	1	59	102 0521 131	Top cover	Gold model	1
13	499 0150 008	Remote sensor SBX1610-52	IC105	1	60	513 2444 005	Label (China)	Put on rear panel	1
14	204 8413 000	2P pin jack(C-GND)	for PHONO	1	61	477 0096 007	Push rivet		8
15	206 1015 032	Fuse (2.5A)	F001	1	62	513 2433 003	Serial No. sheet		1
16	206 1015 029	Fuse (1A T)	F002	1	63	122 0219 007	Sheet	F/Panel/R/Panel	4
17	415 0239 000	Capacitor cover	for C002	1	64	143 0945 006	*Lens		1
18	—	—	—	—	64-1	—	*Lens		(1)
19	214 0142 004	Relay(TV-S)	RL001	1	64-2	—	*Lens		(1)
20	214 0129 001	Relay(DH2TU)	RL601,602	2	65	143 9181 007	*Remoon window		1
21	214 0178 007	Relay(MR62-12USRY)	RL101-106,603	7	66	254 4252 082	Electrolytic cap. 2200µF/10V	C309,310	2
22	212 1030 009	Power switch(TV-S)	SW001	1	67	254 6206 007	Electrolytic cap. 12000µF/63V	C705,706	2
23	—	—	—	—	68	415 0365 017	P.V.C. tube	for AC cord	3
24	212 1162 003	3P push switch	SW501 Speaker	1	69	412 4135 006	Volume plate	Black model	1
25	205 0494 001	8P speaker terminal	ON-OFF	1	70	412 4135 019	Volume plate	Gold model	1
26	211 0899 003	Variable resistor 30kohm	VR201 Main volume	1	71	272 0129 007	Transistor 2SB1566(E/F)	D-702 Bridge	1
27	204 8503 004	Head phone jack	JA501	1	72	263 0793 002	IC NJM7806FA(S)	TR022	1
28	203 3550 002	3P AC outlet	AOL-1	1	73	279 0034 041	PTH94M04B0222T32P333	IC702 Regulator +6V	1
29	411 1267 712	Main chassis		1	74	412 4156 001	Trans frame	PH701	1
30	104 0282 007	*Foot Assy		4	75	—	—		1
31	441 1786 016	Trans bracket		1	76	—	—		2
32	105 1203 004	Rear panel		1	77	146 1651 000	Side spacer		1
33	205 0071 016	Terminal Assy		1	78	461 0940 006	Rubber form		5
34	206 2063 009	AC cord with plug		1	79	449 0138 025	Card spacer (L=31)		1
35	445 0056 008	Cord bush		1	80	449 0138 012	Card spacer (L=25)		1
36	417 0503 132	Power radiator		1	81	—	—		1
37	417 0507 015	*CU plate		1					
38	273 0389 002	Transistor 2SC3855(OP/Y)/Z	TR319,320	2					
39	271 0240 006	Transistor 2SA1491(OP/Y)/Z	TR321,322	2					
40	412 4000 005	*P.W.B. bracket (A)		2					
41	449 0138 009	Card spacer (L=12)		1					
42	146 1637 008	Inner panel	Black model	1					
43	146 1637 011	Inner panel	Gold model	1					
44	113 1739 003	*Function button	Black model	1					
45	113 1739 016	*Function button	Gold model	1					
46	233 6207 009	Power transformer		2					

PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
SCREWS & WASHERS					151	GEN 3580	Envelope Sub. Assy		1s
101	473 7002 018	Screw 3x8	CBTS(S)-Z	17	151-1	505 8006 019	Envelope		(1)
102	473 7004 016	Screw 4x6	CBTS(S)-Z	8	151-2	511 2899 007	Operating instructions		(1)
103	473 7004 029	Screw 4x10	CBTS(S)-Z	14	151-3	399 0277 004	Remote control unit	RC-176	(1)
104	473 7015 018	Screw 3x8	CBTS(S)-B	11	151-4	—	Batteries	R6P/AA/SUM-3	(2)
105	473 8007 009	Cup screw 3x12		7	151-5	515 0671 326	DENON service network		(1)
106	473 7508 017	Screw 3x10	CBTS(P)-B	18	152	505 8092 010	Laminate envelope		1
107	477 0064 107	Fixing screw 3x10		10	153	503 1222 001	Cushion		2
108	473 7508 004	Screw 3x6	CBTS(P)-B	2	154	502 0892 002	Support pad		2
109	473 7500 044	Screw 3x8	CBTS(P)-B	2	155	502 1227 006	Sub cushion		1
110	477 0263 005	3P swelling screw	Black model	4	156	501 1927 009	Carton case		1
110	477 0263 018	3P swelling screw	Gold model	4	157	513 2446 002	China label(E)		1
111	—	—		1	158	513 2447 002	China label(F)		1
112	473 7002 034	Screw 3x6	CBTS(S)-B	1	159	513 9111 001	Color label (Gold)	Gold model only	2
113	477 0018 001	Washer	P-87	1					
114	475 1175 002	Washer		1					
115	—	—		1					

NOTE FOR PARTS LIST

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● When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.

● Ordering part without stating its part number can not be supplied.

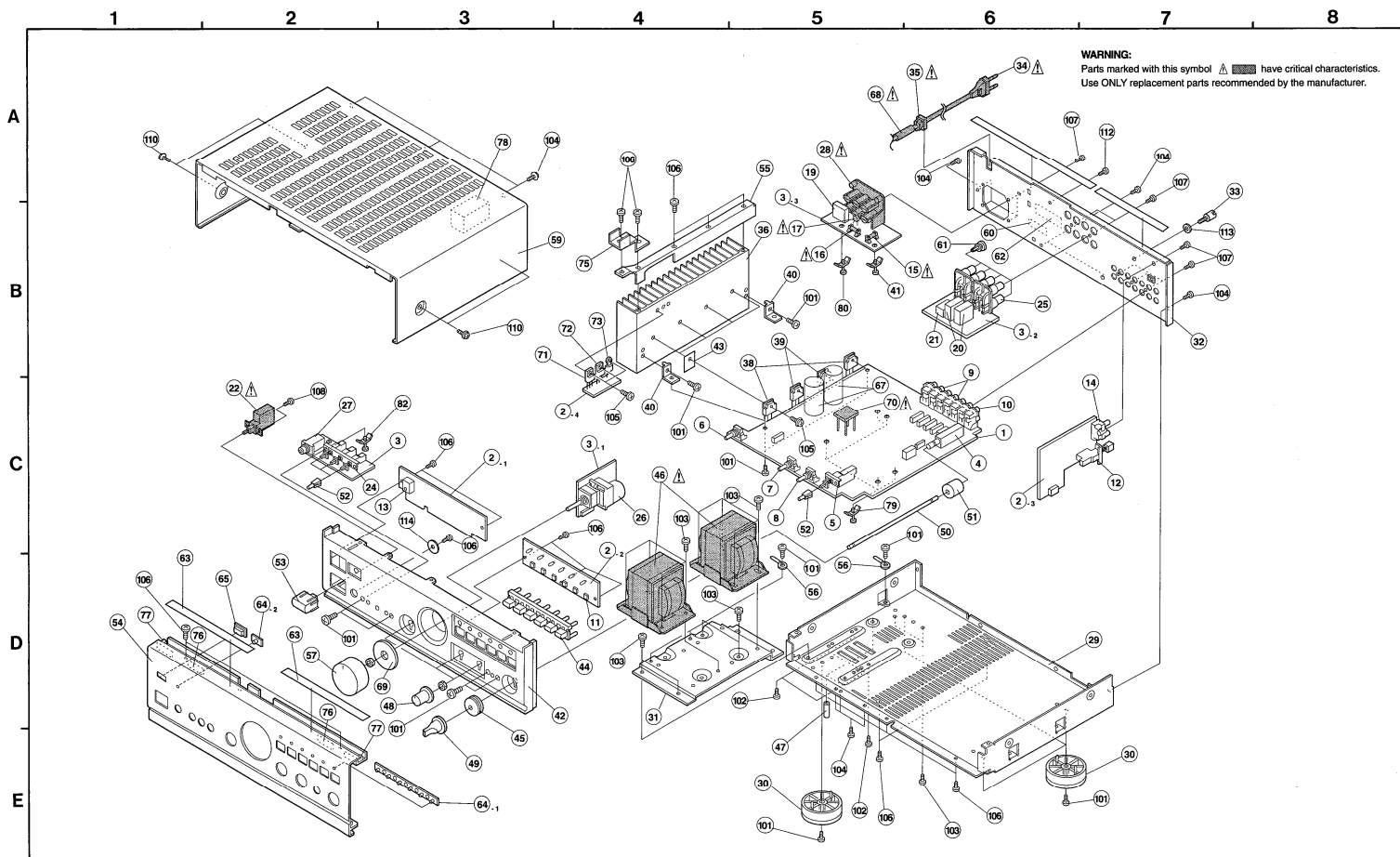
● Part indicated with the mark "★" is not illustrated in the exploded view.

WARNING:

Parts marked with this symbol ⚠ have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

EXPLODED VIEW OF CHASSIS AND CABINET : PMA-725R



PARTS LIST OF EXPLODED VIEW PMA-725R

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-2938 A	Main unit Ass'y	Europe model	1s	40	412 4000 005	*P.W.B bracket (A)		2
1	1U-2938 B	Main unit Ass'y	U.K. model	1s	41	—	—		—
2	1U-2939 A	M-com unit Ass'y		1s	42	146 1632 003	Inner panel	Black model	1
2-1	—	M-com unit		(1)	42	146 1632 016	Inner panel	Gold model	1
2-2	—	LED unit		(1)	43	—	Mica sheet		4
2-3	—	Phono unit		(1)	44	113 1739 003	*Function button	Black model	1
2-4	—	Supply unit		(1)	44	113 1739 016	*Function button	Gold model	1
3	1U-2940 A	Volume unit Ass'y	Europe model	1s	45	124 0032 057	Felt sheet		1
3-1	1U-2940 B	Volume unit Ass'y	U.K. model	1s	46	233 6203 003	Power transformer		2
3-2	—	Volume unit		(1)	47	462 0094 007	Screw tube		2
3-3	—	Speaker unit		(1)	48	112 0646 000	*Knob(S)	Black model	3
3-4	—	AC outlet unit	Europe model only	(1)	48	112 0646 013	*Knob(S)	Gold model	3
3-5	—	Speaker sel. unit		(1)	49	112 0641 102	*Fuji knob	Black model	1
3-6	—	Power switch unit	U.K. model only	(1)	49	112 0641 115	*Fuji knob	Gold model	1
4	212 0336 005	Rotary switch	U.K. model only	(1)	50	112 0784 001	Volume knob joint		1
5	212 1161 004	1P push switch	SW101 Rec.out sel.	1	51	112 0785 000	Volume knob joint (B)		1
6	211 0798 103	Variable resistor 100kohm	SW202 S.Direct	1	52	113 1745 107	*Push button(Round)	Black model	4
7	211 0834 009	Variable resistor 30kohm	VR204 Bass	1	52	113 1745 110	*Push button(Round)	Gold model	4
8	211 0834 012	Variable resistor 10kohm	VR203 Treble	1	53	113 1736 101	*Power button	Black model	1
9	204 6256 008	4P pin jack(S-GND)	for TAPE	2	53	113 1736 114	*Power button	Gold model	1
10	204 8278 009	6P pin jack(S-GND)	for INPUTS	1	54	144 2507 306	Front panel	Black model	1
11	212 4789 001	Tact switch	SW801 -806	6	54	144 2507 319	Front panel	Gold model	1
12	212 1098 008	1P push switch	SW901 MMMC	1	55	412 4128 000	Radiator bracket		1
13	490 0153 008	Remote sensor SBX1610-52	IC105	1	56	445 0048 003	Cord holder L-76		3
14	204 8413 000	2P pin jack(C-GND)	for PHONO	1	57	112 0744 009	Volume knob Ass'y	Black model	1
15	206 1015 061	Fuser (2A)	F001	1	57	112 0744 012	Volume knob Ass'y	Gold model	1
16	206 1015 029	Fuser (1A)	F002	1	58	445 8004 007	Wire clamp		18
17	415 0289 000	Capacitor cover	Europe model only	1	59	102 0543 119	*Top cover	Black model	1
18	—	—	for C002	1	59	102 0543 122	*Top cover	Gold model	1
19	214 0142 004	Relay(TV-5)	RL001	1	60	513 2443 005	Label (China)	Puton rear panel	1
20	214 0129 001	Relay(DH42TU)	RL601,602	2	61	477 0086 007	Push rivet		8
21	214 0178 007	Relay(MR62-12USRY)	RL101-106,603	7	62	513 2433 003	Serial No. sheet		1
22	212 1030 009	Pokre switch(TV-5)	SW001	1	63	122 0219 007	Sheet	F/Panel,R/Panel	4
23	—	—	Europe model only	1	64	143 0945 006	*Lens		1
24	212 1162 003	3P push switch	SW501 Speaker ON-OFF	1	64-1	—	*Lens	(1)	1
25	205 0484 001	6P speaker terminal for speaker	JAS01	1	64-2	—	*Lens	(1)	1
26	211 0869 003	Variable resistor 30kohm	VR201 Main volume	1	65	143 9181 007	*Remocon window		1
27	204 8503 004	Head phone jack	JAS01	1	66	254 4252 082	Electrolytic cap. 2200uF/10V	C309,310	2
28	203 3952 002	6P AC outlet	AOL 1	1	67	254 6205 008	Electrolytic cap. 10000uF/51V	C705,706	2
29	411 1267 712	*Main chassis	Europe model only	1	68	415 0306 017	P.V.C. tube	for AC cord	1
30	104 0282 007	*Foot Ass'y		4	69	412 4135 006	Volume plate	Black model	1
31	441 1786 003	Trans bracket		1	69	412 4135 019	Volume plate	Gold model	1
32	105 1198 009	Rear panel	Europe model	1	70	276 0336 007	Diode 54VB30F	D702 Bridge	1
33	105 1198 012	Rear panel	U.K. model	1	71	272 0129 007	Transistor 2SB1566 (E/F)	TR702	1
34	205 0071 016	Terminal Ass'y		1	72	263 0793 002	IC NJM7806FA (S)	IC702 Regulator+6V	1
35	206 2063 009	AC cord with plug	Europe model	1	73	279 0034 041	PTH9M04BD222T32F333	PH701	1
36	206 2131 006	AC cord with plug	U.K. model	1	74	—	—		1
37	445 0056 008	Cord bush		1	75	412 4159 008	*Support bracket		1
38	417 0503 129	Power radiator		1	76	461 0942 004	Spacer (T=1)		2
39	274 0173 004	Transistor 2SD2390(O/PY)	TR319,320	2	77	146 1648 000	Side spacer		2
40	272 0173 002	Transistor 2SB1550(O/PY)	TR321,322	2	78	461 0941 005	Rubber form		1
					79	449 0136 012	*Card spacer (L=25)		5
					80	449 0136 012	*Card spacer (L=25)		1
					81	449 0136 012	*Card spacer (L=25)		1
					82	449 0136 025	*Card spacer (L=31)		1
					83	513 2001 008	Insulate mark sheet	U.K. model only	1
					84	202 0015 101	Fuse holder	U.K. model only	1

PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
85	415 0785 006	Insulating plate	U.K. model only	1	151-1	GEN 3580	Envelope Sub. Ass'y		1s
86	513 1390 008	Fuse label	U.K. model only	1	151-2	505 8006 019	Envelope		(1)
87	203 0150 003	Wire connector	U.K. model only	2	151-3	511 2899 007	Operating instructions		(1)
88	415 0360 052	P.V.C. Tubing (19)	U.K. model only	1	151-4	399 0277 004	Remote control unit	RC-176	(1)
SCREWS & WASHERS					151-5	—	Batteries	R6P/AA/SUM-3	(2)
101	473 7002 018	Screw 3x8	CBTS(S)-Z	15	151-6	515 0671 326	DENON service network		(1)
102	473 7004 016	Screw 4x6	CBTS(S)-Z	8	152	505 8036 010	Laminate envelope		1
103	473 7004 029	Screw 4x10	CBTS(S)-Z	14	153	503 1218 002	Cushion		2
104	473 7015 018	Screw 3x8	CBTS(S)-B	10	154	502 0893 001	L supporter		1
105	473 8007 009	Cup screw 3x12	CBTS(S)-B	7	155	502 0894 000	*Pad (T=10)		1
106	473 7508 017	Screw 3x10	CBTS(P)-B	18	156	501 1922 004	Carton case		1
107	477 0054 107	Fixing screw 3x10	Europe model	10	157	513 2446 003	China label(E)		1
107	477 0054 107	Fixing screw 3x10	U.K. model	6	158	513 2447 002	China label(F)		1
108	473 7508 004	Screw 3x6	CBTS(P)-B	2	159	513 9111 001	Color label (Gold)	Gold model only	2
109	—	—	—	—	160	504 0176 009	AC protect sheet	U.K. model only	1
110	477 0263 005	3P swelling screw	Black model	4	161	503 1228 008	Support pad	U.K. model only	1
110	477 0263 018	3P swelling screw	Gold model	4					
111	—	—	—	—					
112	473 7002 034	Screw 3x6	CBTS(S)-B	1					
113	477 0018 001	Washer	P-67	1					
114	475 1175 002	*Washer	—	1					
115	471 3304 031	Screw 3x8	CBTS U.K. model only	1					
116	475 6008 008	Nut M3	U.K. model only	1					

NOTE FOR PARTS LIST

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● Ordering part without stating its part number can not be supplied.

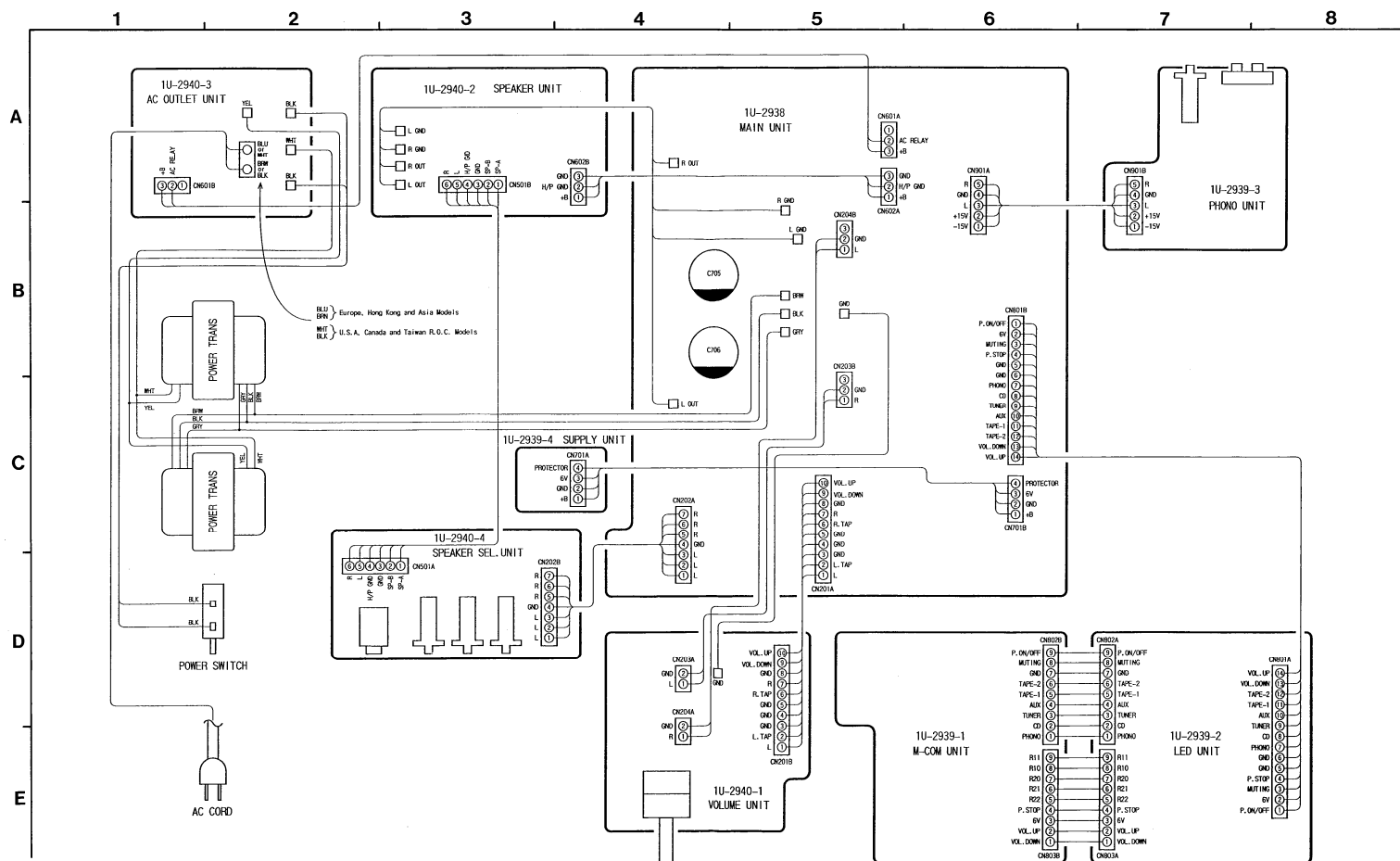
● Part indicated with the mark "*" is not illustrated in the exploded view.

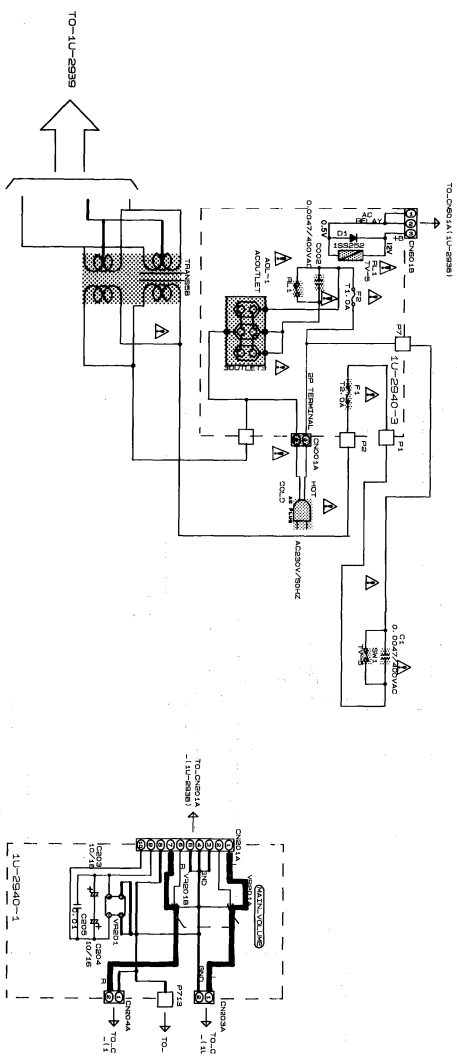
WARNING:

Parts marked with this symbol  have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

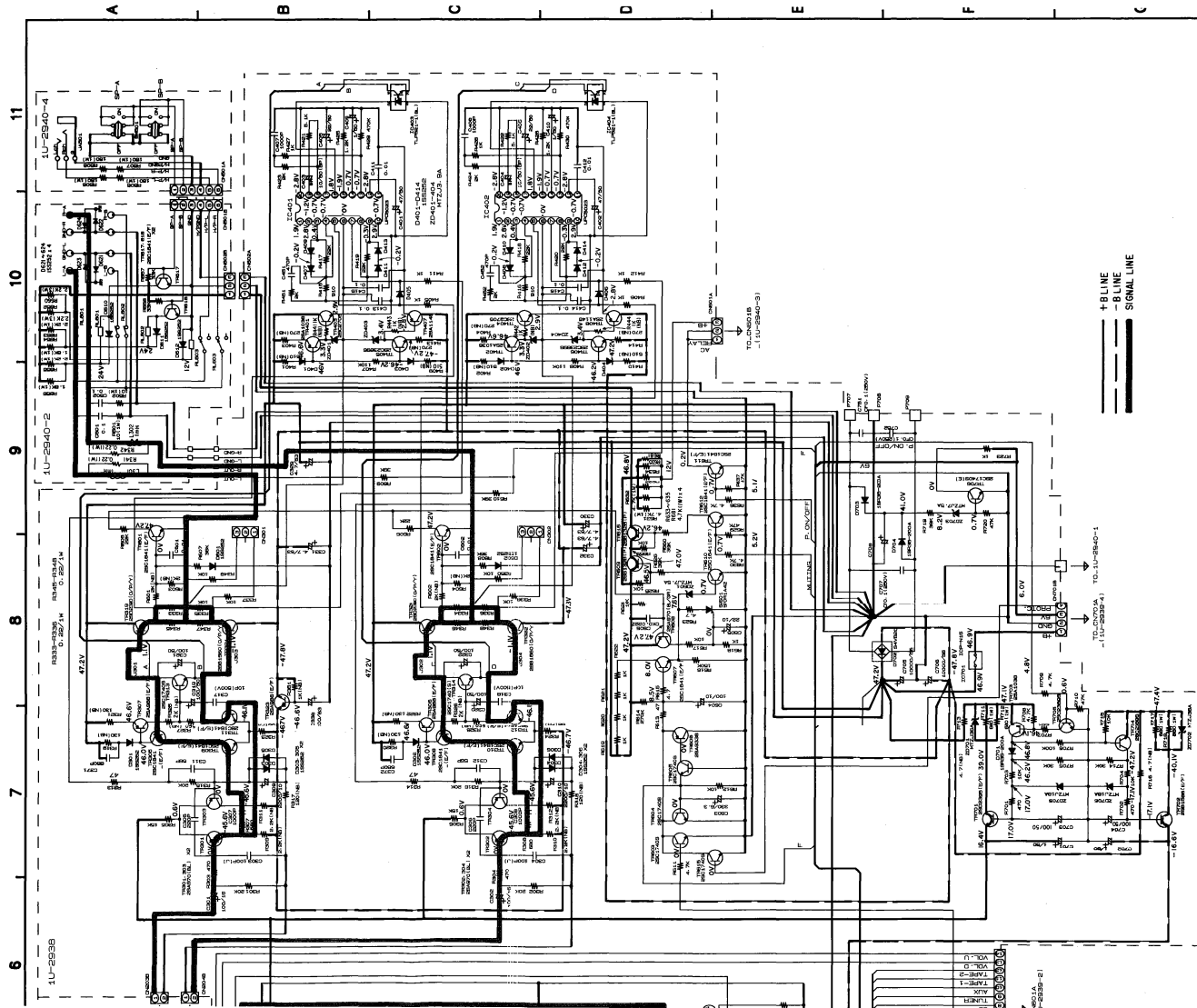
WIRING DIAGRAM





NOTES
ALL RESISTANCE VALUES IN OHM, K=1,000 OHM, M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD, P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.





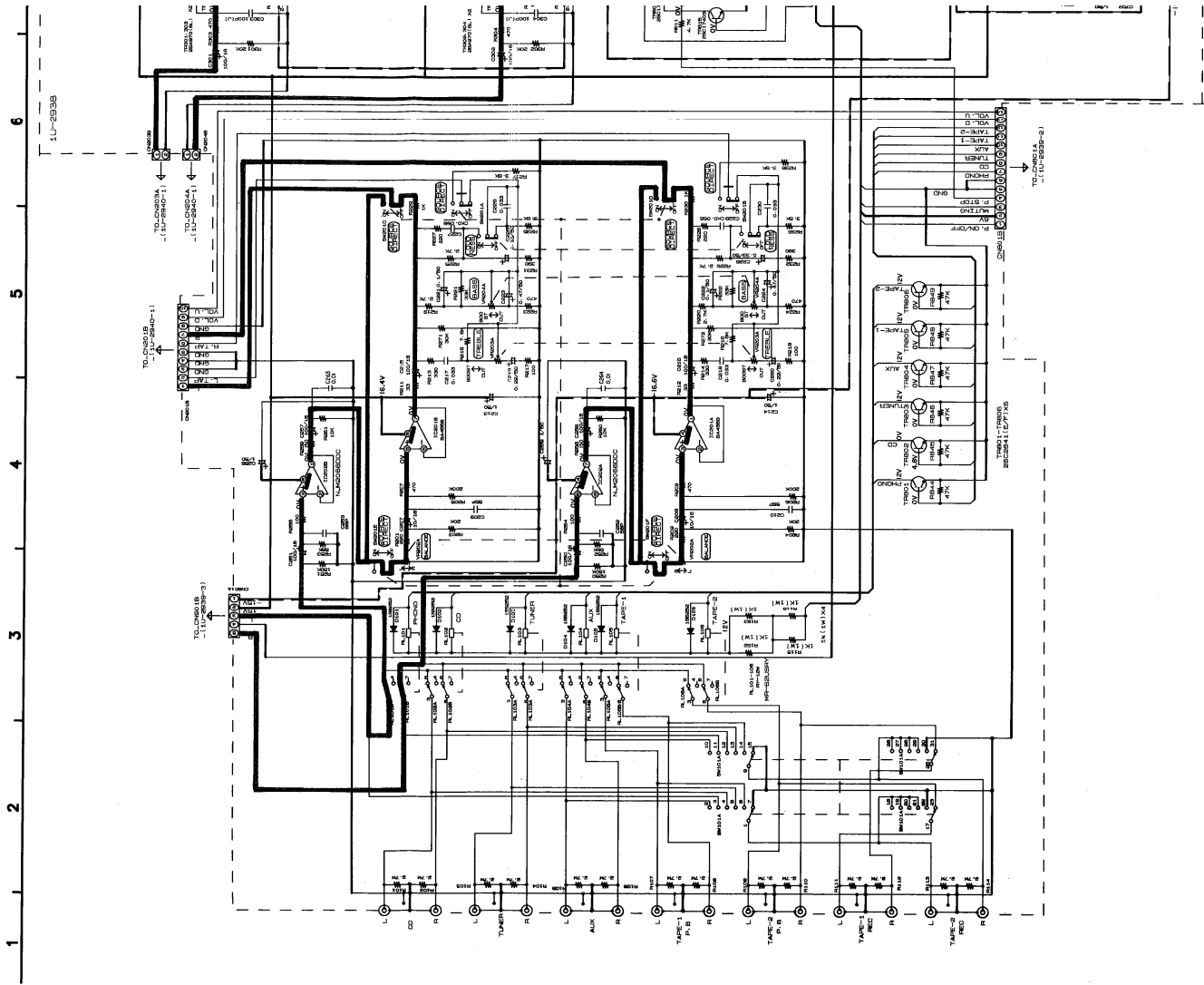
WARNING: Use ONLY replacement parts recommended by the manufacturer.

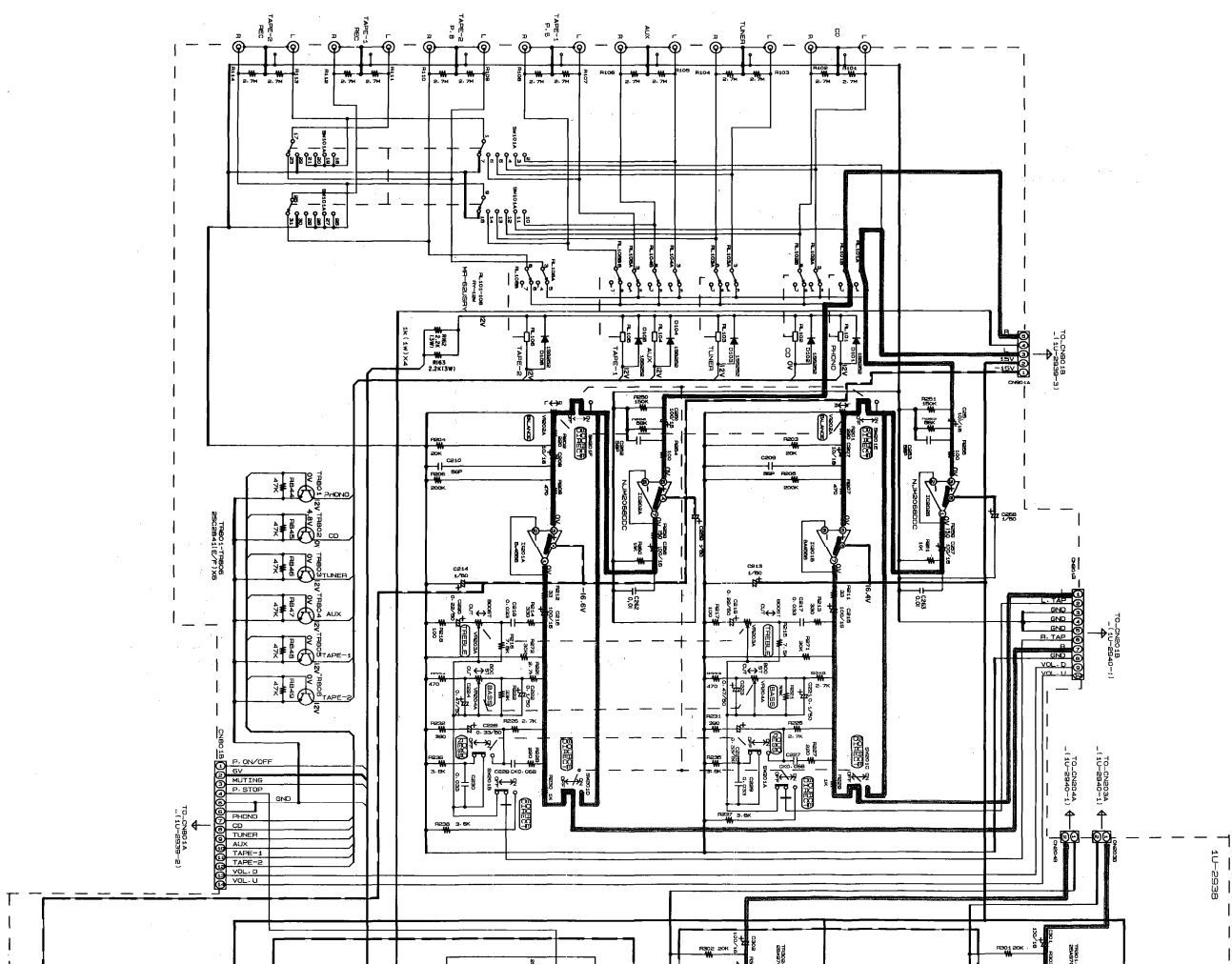
CAUTION: Do not touch the unit to the customer. Make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current check or (2) a line to chassis resistance check is not performed, the unit could be damaged. If the power cord is more than 240 volts, the unit is defective.

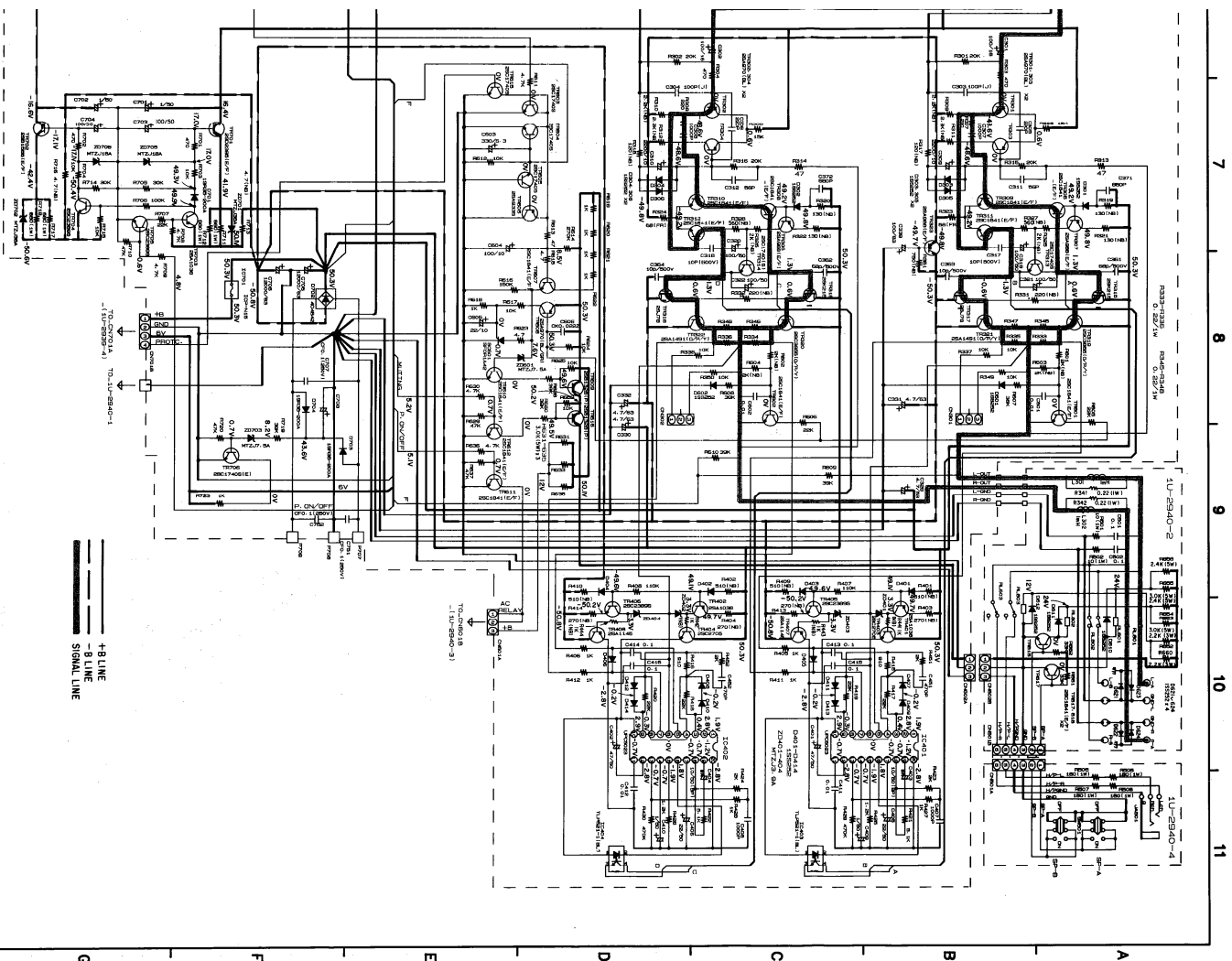
WARNING: DO NOT return the unit to the customer until the problem is located and corrected.

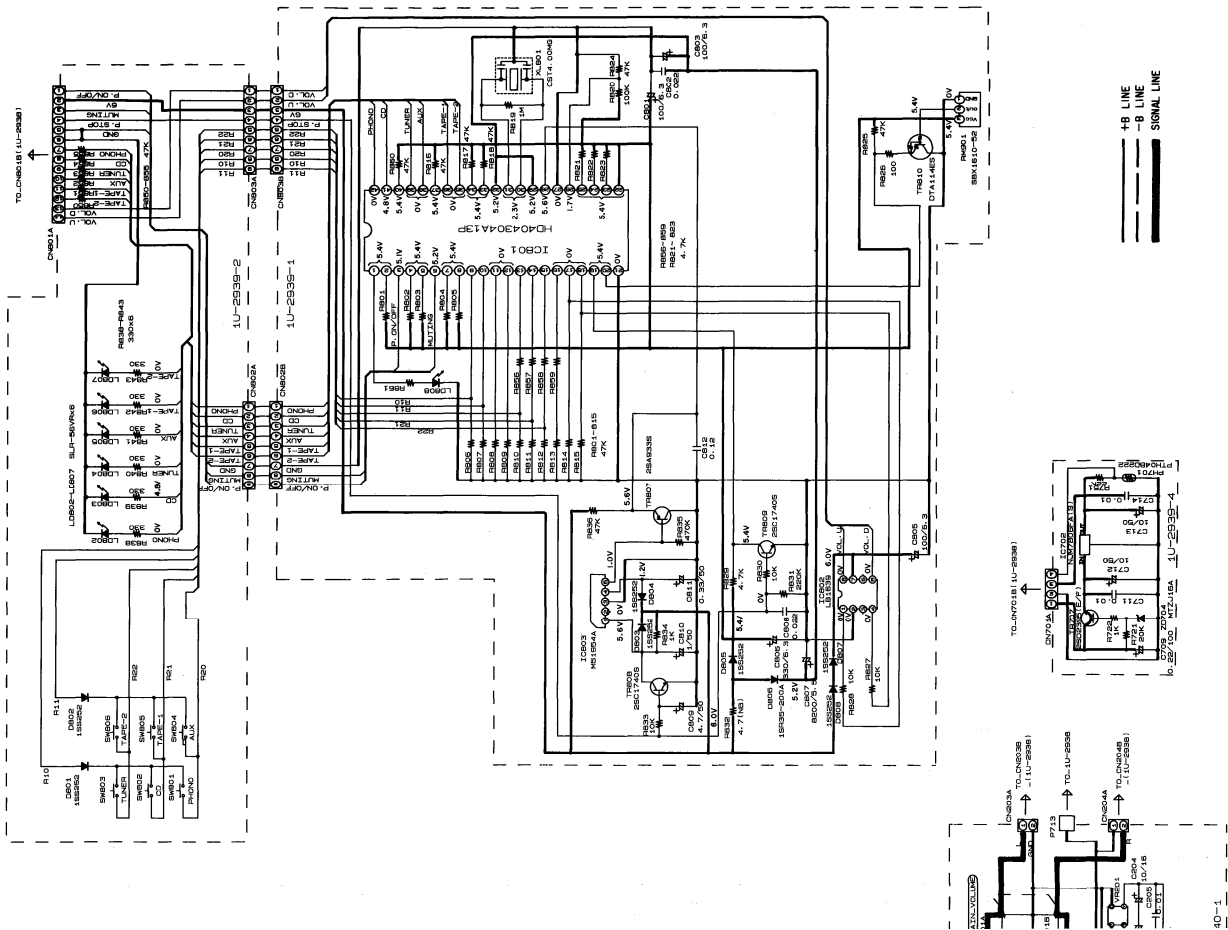
NOTES: ALL RESISTANCE VALUES IN OHMS, K=1,000 OHMS, M=1,000,000 OHMS. EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT. CAPACITANCE VALUES IN MICROFARADS. P=MICRO MICROFARAD. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

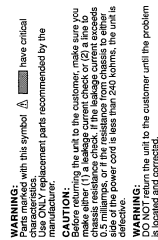
SCHEMATIC DIAGRAM (3/4) : PMA-725R











NOTES
ALL RESISTANCE VALUES IN OHM. $k=1,000$ OHM.
 $M=1,000,000$ OHM
ALL CAPACITANCE VALUES N MICRO FARAD.
P-MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT
NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE
WITHOUT PRIOR NOTICE.