

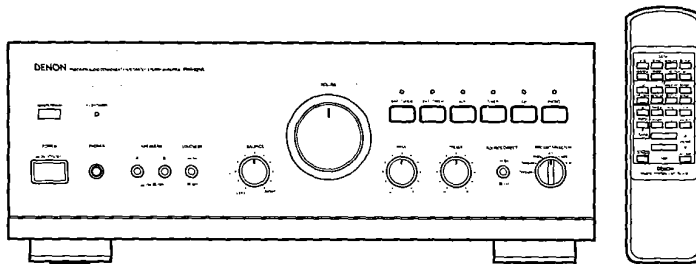
# DENON

Hi-Fi Integrated Stereo Amplifier

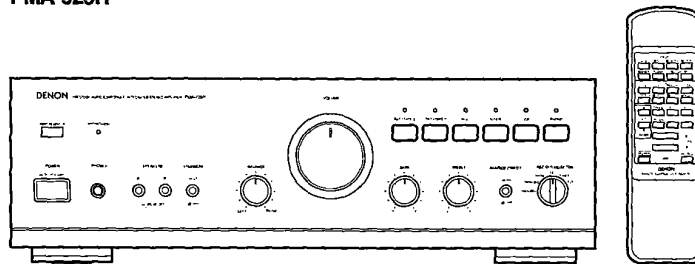
## SERVICE MANUAL

# MODEL PMA-925R/725R

### INTEGRATED STEREO AMPLIFIER



PMA-925R



PMA-725R

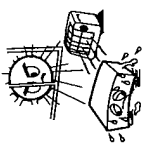
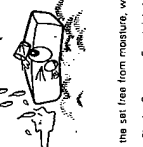

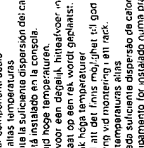
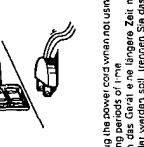
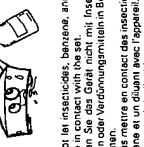
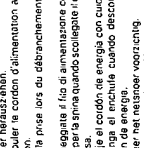
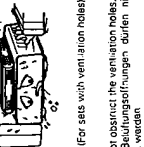
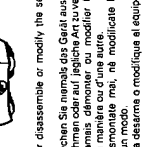
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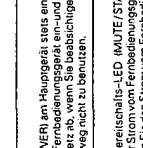
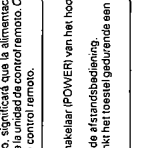
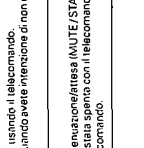
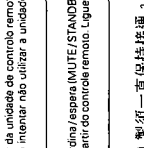
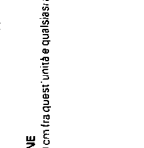
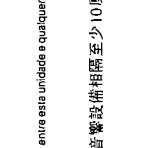
## NIPPON COLUMBIA CO., LTD.



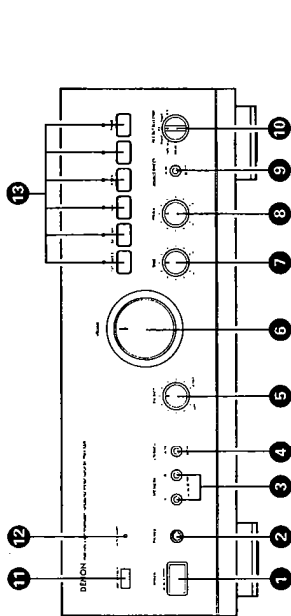
NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA OBSERVAÇÕES QUANTO AO USO

 <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>Mantenha sempre activado el interruptor de alimentación (POWER) en la unidad principal.</li> <li>Encienda y apague el equipo desde la unidad de control remoto.</li> <li>Cuando la unidad vaya a estar fuera de uso por un período prolongado de tiempo, desconecte el cable de alimentación.</li> </ul> <p><b>PRECAUCION:</b></p> <p>Cuando sólo el indicador LED de silenciamiento/modo de espera (MUTE/STANDBY) esté encendido, significa que la alimentación a la unidad de control remoto.</p> <p><b>OPMERKING:</b></p> <ul style="list-style-type: none"> <li>Zorg er altijd voor dat de stroomschakelaar (POWER) van het hoofdelekt in de juiste positie staat.</li> <li>Schakel de stroom uit van een r.m.b. v. de afstandsbediening.</li> <li>Trek het netsteekert uit wanneer u denkt het toestel gedurende een lange periode niet te gebruiken.</li> </ul> <p><b>WAARSCHUWING:</b></p> <p>Indien enkel de demping-(MUTE)/STANDBY LED brandt, betekent dit dat de spanning met de afstandsbediening is uitgeschakeld. Schakel de spanning in met de afstandsbediening.</p> <p><b>OBSERVERA:</b></p> <ul style="list-style-type: none"> <li>Låt alltid strömbrytaren (POWER) på huvudelekten vara påslagen.</li> <li>Slå till/från strömmen med hjälp av fjärrkontrollen.</li> <li>Koppla loss nätkabeln om apparaten inte skall användas under lång tid.</li> </ul> <p><b>WARNING:</b></p> <p>When the MUTE/STANDBY lamp is lit, it means that the power is turned off from the remote control unit. Turn the power on from the remote control unit.</p> <p><b>CAUTION:</b></p> <p>When only the MUTE/STANDBY LED is lit, this means that the power is turned off from the remote control unit. Turn the power on from the remote control unit.</p> <p><b>HINWEIS:</b></p> <ul style="list-style-type: none"> <li>Lassen Sie den Netzschalter (POWER) am Hauptgerät stets eingeschaltet.</li> <li>Schalten Sie den Strom mit dem Fernbedienungsgesetz ein- und aus.</li> <li>Trennen Sie das Netzkabel vom Netz ab, wenn Sie beabsichtigen, das Gerät über einen längeren Zeitraum hinweg nicht zu benutzen.</li> </ul> <p><b>VORSICHT:</b></p> <p>Wenn nur das Stumm-/Bereitschafts-LED (MUTE/STANDBY) leuchtet, so bedeutet dies, daß der Strom vom Fernbedienungsgesetz aus abgeschaltet worden ist. Schalten Sie den Strom vom Fernbedienungsgesetz ein.</p> <p><b>REMARQUE:</b></p> <ul style="list-style-type: none"> <li>S'assurer que le commutateur d'alimentation (POWER) sur l'unité principale soit toujours dans la position active.</li> <li>Accendez et éteignez le courant en utilisant l'électrocommande.</li> <li>Débranchez le cordon d'alimentation lorsque l'appareil ne sera pas utilisé pendant une longue période.</li> </ul> <p><b>ATTENTION:</b></p> <p>Quando il unico LED di silenziamento (MUTE/STANDBY) è illuminato, ciò significa che l'alimentazione è stata spenta con il telecomando. Attivare l'appareil con il telecomando.</p> <p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>Mantenha sempre o interruptor de Corrente (POWER) na unidade principal sempre ligado.</li> <li>Ligue e desligue a corrente a partir da unidade de controlo remoto.</li> <li>Desconecte o fio de força quando intenciar não utilizar a unidade por longo tempo.</li> </ul> <p><b>CAUTELA:</b></p> <p>Se apenas se iluminar o LED de surdina/espera (MUTE/STANDBY), isto significa que a força se desligou a partir do controlo remoto. Ligue a força a partir do controlo remoto.</p> <p><b>註:</b></p> <ul style="list-style-type: none"> <li>主機上的POWER (電源) 顯示燈一直保持亮燈。</li> <li>由遙控器將電源之開和關。</li> <li>本機打算長時間不用時應將電源接線拔下。</li> </ul> <p><b>注意:</b></p> <p>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。</p>	 <ul style="list-style-type: none"> <li>Keep the set free from moisture, water, and dust.</li> <li>Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.</li> <li>Proteger l'appareil contre l'humidité, l'eau et la poussière.</li> <li>Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere.</li> <li>Mantenga el equipo libre de humedad, agua y polvo.</li> <li>Laat geen vocht, water of stof in het apparaat vallen.</li> <li>Uzart, into apparātin, lai fukt, vātnin, och dūmni.</li> <li>Mantenha o aparelho livre de qualquer umidade, água ou pó.</li> </ul> <ul style="list-style-type: none"> <li>Do not let liquids, beverages, and thinner come in contact with the set.</li> <li>Beim Gebrauch des Geräts nicht mit Flüssigkeiten, Getränken oder Verdünnungsmitteln in Berührung bringen.</li> <li>Ne pas mettre en contact des boissons, des boissons chaudes et diluants avec l'appareil.</li> <li>Assicuratevi che l'unità non venga in contatto con bevande, bevande calde e diluanti.</li> <li>Ne permitia el contacto de las bebidas, calientes y diluyentes con el equipo.</li> <li>Laat geen vloeistoffen, dranken, warme dranken of verdunningsmiddelen met het apparaat in contact komen.</li> <li>Se til alt intet innskikket med språk, brensel og thinner kommer i kontakt med apparatet.</li> <li>Não permita que líquidos, bebidas e diluantes venha em contato com o aparelho.</li> </ul>	 <ul style="list-style-type: none"> <li>Never disassemble or modify the set in any way.</li> <li>Verboten de montage van het apparaat te wijzigingen aan te brengen.</li> <li>Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.</li> <li>Non smontare mai, né modificare l'unità in nessun modo.</li> <li>Nunca desarme o modifique el equipo de ninguna manera.</li> <li>Verboten de montage van het apparaat te wijzigingen aan te brengen.</li> <li>Ta nie sjar apparaten och försk utbygge om denna desmonte o modifique o aparelho de alguma forma.</li> </ul>
 <ul style="list-style-type: none"> <li>Avoid high temperature.</li> <li>Arroj far sufficient heat dissipation when installed on a rack.</li> <li>Vermeiden Sie hohe Temperaturen.</li> <li>Evitare alte temperature.</li> <li>Evite altas temperaturas.</li> <li>Maintain the unit in a well-ventilated area.</li> <li>Behoud de apparatuur in een goed geventileerde ruimte.</li> <li>Maintain the unit in a well-ventilated area.</li> <li>Uzart, into apparātin, lai fukt, vātnin, och dūmni.</li> <li>Mantenha o aparelho em uma área bem ventilada.</li> </ul> <ul style="list-style-type: none"> <li>Unplug the power cord when not using the set for long periods of time.</li> <li>De apparatuur niet gebruiken als u het apparaat niet gaat gebruiken. Zet de stekker uit het netstekker.</li> <li>Débrancher le cordon d'alimentation lorsque l'appareil est sans usage pendant de longues périodes.</li> <li>Disinnestare il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo.</li> <li>Desconecte el cable de energía cuando no utilice el equipo por mucho tiempo.</li> <li>Naam altijd het netsteekert uit het stopcontact wanneer u het apparaat niet gaat gebruiken.</li> <li>Kopla ur nātkabeln om apparātin inte būnmet ar anwānds, l'ing tid.</li> <li>Desconecte o fio de força quando o aparelho não for usado por um longo período.</li> </ul>	 <ul style="list-style-type: none"> <li>Do not use the power cord for anything other than the power cord.</li> <li>Gebruik het netstekker niet voor iets anders dan het netstekker.</li> <li>N'utilisez pas le cordon d'alimentation avec précaution.</li> <li>Tenir le prise lors du débranchement du cordon.</li> <li>Maneggiare il filo di alimentazione con cura.</li> <li>Agire par e arma quando scollegare il cavo dalla presa.</li> <li>Maneggiar el cordón de abastecimiento del cordón de energía.</li> <li>Hanteer het netsteekert voorzichtig.</li> <li>Handle the power cord carefully.</li> <li>Hold the plug when unplugging the cord.</li> <li>Genien Sie vorsichtig mit dem Netzkabel um.</li> <li>Halten Sie das Kabellum Stecker, wenn Sie den Stecker herausziehen.</li> <li>Mislar nātkabeln ar bīr.</li> <li>Maintene o cabo de alimentação com cuidado.</li> <li>Manuseie com cuidado o fio condutor de energia.</li> <li>Seguire a tornada al desconectar el cable.</li> </ul>	 <ul style="list-style-type: none"> <li>Never disassemble or modify the set in any way.</li> <li>Verboten de montage van het apparaat te wijzigingen aan te brengen.</li> <li>Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.</li> <li>Non smontare mai, né modificare l'unità in nessun modo.</li> <li>Nunca desarme o modifique el equipo de ninguna manera.</li> <li>Verboten de montage van het apparaat te wijzigingen aan te brengen.</li> <li>Ta nie sjar apparaten och försk utbygge om denna desmonte o modifique o aparelho de alguma forma.</li> </ul>
 <p><b>PRECAUCIONES PARA LA INSTALACION</b></p> <p>Deje por lo menos 10 cm. de espacio entre esta unidad y cualquier otro componente situado sobre ella.</p> <p><b>VOORZORGSMAATREGELEN</b></p> <p>Bij plaatsing dient u een ruimte van minstens 10 cm open te laten tussen de toestel en een ander elc. apparaat.</p> <p><b>FORSIKTIGHETSÅTGÆRDER VID INSTALLATIONEN</b></p> <p>Se till att det finns minst 10 cm mellanrum mellan apparaten och en annan apparat som ställs ovanpå.</p> <p><b>CUIDADOS NA INSTALACION</b></p> <p>Deixe um espaço de pelo menos 10 cm entre esta unidade e qualquer outro componente colocado acima.</p> <p><b>注意:</b></p> <p>本機須與其上方擺置的其它音響設備相隔至少10厘米。</p>	 <p><b>PRECAUTIONS FOR INSTALLATION</b></p> <p>Leave at least 10cm of space between this unit and any other component placed above.</p> <p><b>SICHERHEITSMASSNAHMEN BEIM EINBAU</b></p> <p>Lassen einen Mindestabstand von 10 cm zwischen diesem Gerät und der anderen Komponente, die daraufgestellt wird.</p> <p><b>PRECAUTIONS D'INSTALLATION</b></p> <p>Prevoir un espace d'au moins 10cm entre l'unité et tout autre appareil se trouvant au-dessus.</p> <p><b>PRECAUTIONS PER L'INSTALLAZIONE</b></p> <p>Lasciare uno spazio libero di almeno 10 cm fra quest'unità e qualsiasi altro componente che è collocato sopra la stessa.</p>	 <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>Use the power cord only for the power cord.</li> <li>Gebruik het netstekker niet voor iets anders dan het netstekker.</li> <li>N'utilisez pas le cordon d'alimentation avec précaution.</li> <li>Tenir le prise lors du débranchement du cordon.</li> <li>Maneggiare il filo di alimentazione con cura.</li> <li>Agire par e arma quando scollegare il cavo dalla presa.</li> <li>Maneggiar el cordón de abastecimiento del cordón de energía.</li> <li>Hanteer het netsteekert voorzichtig.</li> <li>Handle the power cord carefully.</li> <li>Hold the plug when unplugging the cord.</li> <li>Genien Sie vorsichtig mit dem Netzkabel um.</li> <li>Halten Sie das Kabellum Stecker, wenn Sie den Stecker herausziehen.</li> <li>Mislar nātkabeln ar bīr.</li> <li>Maintene o cabo de alimentação com cuidado.</li> <li>Manuseie com cuidado o fio condutor de energia.</li> <li>Seguire a tornada al desconectar el cable.</li> </ul>

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

 <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>Use the power switch on this main unit, turned on.</li> <li>Turn the power on and off from the remote control unit.</li> <li>Unplug the power cord when you do not plan to use the unit for a long period of time.</li> </ul> <p><b>CAUTION:</b></p> <p>If only the MUTE/STANDBY LED is lit, this means that the power is turned off from the remote control unit. Turn the power on from the remote control unit.</p> <p><b>HINWEIS:</b></p> <ul style="list-style-type: none"> <li>Lassen Sie den Netzschalter (POWER) am Hauptgerät stets eingeschaltet.</li> <li>Schalten Sie den Strom mit dem Fernbedienungsgesetz ein- und aus.</li> <li>Trennen Sie das Netzkabel vom Netz ab, wenn Sie beabsichtigen, das Gerät über einen längeren Zeitraum hinweg nicht zu benutzen.</li> </ul> <p><b>VORSICHT:</b></p> <p>Wenn nur das Stumm-/Bereitschafts-LED (MUTE/STANDBY) leuchtet, so bedeutet dies, daß der Strom vom Fernbedienungsgesetz aus abgeschaltet worden ist. Schalten Sie den Strom vom Fernbedienungsgesetz ein.</p> <p><b>REMARQUE:</b></p> <ul style="list-style-type: none"> <li>S'assurer que le commutateur d'alimentation (POWER) sur l'unité principale soit toujours dans la position active.</li> <li>Accendez et éteignez le courant en utilisant l'électrocommande.</li> <li>Débranchez le cordon d'alimentation lorsque l'appareil ne sera pas utilisé pendant une longue période.</li> </ul> <p><b>ATTENTION:</b></p> <p>Quando il unico LED di silenziamento (MUTE/STANDBY) è illuminato, ciò significa che l'alimentazione è stata spenta con il telecomando. Attivare l'appareil con il telecomando.</p> <p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>Mantenha sempre o interruptor de Corrente (POWER) na unidade principal sempre ligado.</li> <li>Ligue e desligue a corrente a partir da unidade de controlo remoto.</li> <li>Desconecte o fio de força quando intenciar não utilizar a unidade por longo tempo.</li> </ul> <p><b>CAUTELA:</b></p> <p>Se apenas se iluminar o LED de surdina/espera (MUTE/STANDBY), isto significa que a força se desligou a partir do controlo remoto. Ligue a força a partir do controlo remoto.</p> <p><b>註:</b></p> <ul style="list-style-type: none"> <li>主機上的POWER (電源) 顯示燈一直保持亮燈。</li> <li>由遙控器將電源之開和關。</li> <li>本機打算長時間不用時應將電源接線拔下。</li> </ul> <p><b>注意:</b></p> <p>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。</p>	 <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>Mantenha sempre activado el interruptor de alimentación (POWER) en la unidad principal.</li> <li>Encienda y apague el equipo desde la unidad de control remoto.</li> <li>Cuando la unidad vaya a estar fuera de uso por un período prolongado de tiempo, desconecte el cable de alimentación.</li> </ul> <p><b>PRECAUCION:</b></p> <p>Cuando sólo el indicador LED de silenciamiento/modo de espera (MUTE/STANDBY) esté encendido, significa que la alimentación a la unidad de control remoto.</p> <p><b>OPMERKING:</b></p> <ul style="list-style-type: none"> <li>Zorg er altijd voor dat de stroomschakelaar (POWER) van het hoofdelekt in de juiste positie staat.</li> <li>Schakel de stroom uit van een r.m.b. v. de afstandsbediening.</li> <li>Trek het netsteekert uit wanneer u denkt het toestel gedurende een lange periode niet te gebruiken.</li> </ul> <p><b>WAARSCHUWING:</b></p> <p>Indien enkel de demping-(MUTE)/STANDBY LED brandt, betekent dit dat de spanning met de afstandsbediening is uitgeschakeld. Schakel de spanning in met de afstandsbediening.</p> <p><b>OBSERVERA:</b></p> <ul style="list-style-type: none"> <li>Låt alltid strömbrytaren (POWER) på huvudelekten vara påslagen.</li> <li>Slå till/från strömmen med hjälp av fjärrkontrollen.</li> <li>Koppla loss nätkabeln om apparaten inte skall användas under lång tid.</li> </ul> <p><b>WARNING:</b></p> <p>When the MUTE/STANDBY lamp is lit, it means that the power is turned off from the remote control unit. Turn the power on from the remote control unit.</p> <p><b>CAUTION:</b></p> <p>When only the MUTE/STANDBY LED is lit, this means that the power is turned off from the remote control unit. Turn the power on from the remote control unit.</p> <p><b>HINWEIS:</b></p> <ul style="list-style-type: none"> <li>Lassen Sie den Netzschalter (POWER) am Hauptgerät stets eingeschaltet.</li> <li>Schalten Sie den Strom mit dem Fernbedienungsgesetz ein- und aus.</li> <li>Trennen Sie das Netzkabel vom Netz ab, wenn Sie beabsichtigen, das Gerät über einen längeren Zeitraum hinweg nicht zu benutzen.</li> </ul> <p><b>VORSICHT:</b></p> <p>Wenn nur das Stumm-/Bereitschafts-LED (MUTE/STANDBY) leuchtet, so bedeutet dies, daß der Strom vom Fernbedienungsgesetz aus abgeschaltet worden ist. Schalten Sie den Strom vom Fernbedienungsgesetz ein.</p> <p><b>REMARQUE:</b></p> <ul style="list-style-type: none"> <li>S'assurer que le commutateur d'alimentation (POWER) sur l'unité principale soit toujours dans la position active.</li> <li>Accendez et éteignez le courant en utilisant l'électrocommande.</li> <li>Débranchez le cordon d'alimentation lorsque l'appareil ne sera pas utilisé pendant une longue période.</li> </ul> <p><b>ATTENTION:</b></p> <p>Quando il unico LED di silenziamento (MUTE/STANDBY) è illuminato, ciò significa che l'alimentazione è stata spenta con il telecomando. Attivare l'appareil con il telecomando.</p> <p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>Mantenha sempre o interruptor de Corrente (POWER) na unidade principal sempre ligado.</li> <li>Ligue e desligue a corrente a partir da unidade de controlo remoto.</li> <li>Desconecte o fio de força quando intenciar não utilizar a unidade por longo tempo.</li> </ul> <p><b>CAUTELA:</b></p> <p>Se apenas se iluminar o LED de surdina/espera (MUTE/STANDBY), isto significa que a força se desligou a partir do controlo remoto. Ligue a força a partir do controlo remoto.</p> <p><b>註:</b></p> <ul style="list-style-type: none"> <li>主機上的POWER (電源) 顯示燈一直保持亮燈。</li> <li>由遙控器將電源之開和關。</li> <li>本機打算長時間不用時應將電源接線拔下。</li> </ul> <p><b>注意:</b></p> <p>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。</p>
 <p><b>PRECAUTIONS FOR INSTALLATION</b></p> <p>Leave at least 10cm of space between this unit and any other component placed above.</p> <p><b>SICHERHEITSMASSNAHMEN BEIM EINBAU</b></p> <p>Lassen einen Mindestabstand von 10 cm zwischen diesem Gerät und der anderen Komponente, die daraufgestellt wird.</p> <p><b>PRECAUTIONS D'INSTALLATION</b></p> <p>Prevoir un espace d'au moins 10cm entre l'unité et tout autre appareil se trouvant au-dessus.</p> <p><b>PRECAUTIONS PER L'INSTALLAZIONE</b></p> <p>Lasciare uno spazio libero di almeno 10 cm fra quest'unità e qualsiasi altro componente che è collocato sopra la stessa.</p>	 <p><b>PRECAUCIONES PARA LA INSTALACION</b></p> <p>Deje por lo menos 10 cm. de espacio entre esta unidad y cualquier otro componente situado sobre ella.</p> <p><b>VOORZORGSMAATREGELEN</b></p> <p>Bij plaatsing dient u een ruimte van minstens 10 cm open te laten tussen de toestel en een ander elc. apparaat.</p> <p><b>FORSIKTIGHETSÅTGÆRDER VID INSTALLATIONEN</b></p> <p>Se till att det finns minst 10 cm mellanrum mellan apparaten och en annan apparat som ställs ovanpå.</p> <p><b>CUIDADOS NA INSTALACION</b></p> <p>Deixe um espaço de pelo menos 10 cm entre esta unidade e qualquer outro componente colocado acima.</p> <p><b>注意:</b></p> <p>本機須與其上方擺置的其它音響設備相隔至少10厘米。</p>
 <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>Use the power switch on this main unit, turned on.</li> <li>Turn the power on and off from the remote control unit.</li> <li>Unplug the power cord when you do not plan to use the unit for a long period of time.</li> </ul> <p><b>CAUTION:</b></p> <p>If only the MUTE/STANDBY LED is lit, this means that the power is turned off from the remote control unit. Turn the power on from the remote control unit.</p> <p><b>HINWEIS:</b></p> <ul style="list-style-type: none"> <li>Lassen Sie den Netzschalter (POWER) am Hauptgerät stets eingeschaltet.</li> <li>Schalten Sie den Strom mit dem Fernbedienungsgesetz ein- und aus.</li> <li>Trennen Sie das Netzkabel vom Netz ab, wenn Sie beabsichtigen, das Gerät über einen längeren Zeitraum hinweg nicht zu benutzen.</li> </ul> <p><b>VORSICHT:</b></p> <p>Wenn nur das Stumm-/Bereitschafts-LED (MUTE/STANDBY) leuchtet, so bedeutet dies, daß der Strom vom Fernbedienungsgesetz aus abgeschaltet worden ist. Schalten Sie den Strom vom Fernbedienungsgesetz ein.</p> <p><b>REMARQUE:</b></p> <ul style="list-style-type: none"> <li>S'assurer que le commutateur d'alimentation (POWER) sur l'unité principale soit toujours dans la position active.</li> <li>Accendez et éteignez le courant en utilisant l'électrocommande.</li> <li>Débranchez le cordon d'alimentation lorsque l'appareil ne sera pas utilisé pendant une longue période.</li> </ul> <p><b>ATTENTION:</b></p> <p>Quando il unico LED di silenziamento (MUTE/STANDBY) è illuminato, ciò significa che l'alimentazione è stata spenta con il telecomando. Attivare l'appareil con il telecomando.</p> <p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>Mantenha sempre o interruptor de Corrente (POWER) na unidade principal sempre ligado.</li> <li>Ligue e desligue a corrente a partir da unidade de controlo remoto.</li> <li>Desconecte o fio de força quando intenciar não utilizar a unidade por longo tempo.</li> </ul> <p><b>CAUTELA:</b></p> <p>Se apenas se iluminar o LED de surdina/espera (MUTE/STANDBY), isto significa que a força se desligou a partir do controlo remoto. Ligue a força a partir do controlo remoto.</p> <p><b>註:</b></p> <ul style="list-style-type: none"> <li>主機上的POWER (電源) 顯示燈一直保持亮燈。</li> <li>由遙控器將電源之開和關。</li> <li>本機打算長時間不用時應將電源接線拔下。</li> </ul> <p><b>注意:</b></p> <p>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。</p>	 <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>Use the power switch on this main unit, turned on.</li> <li>Turn the power on and off from the remote control unit.</li> <li>Unplug the power cord when you do not plan to use the unit for a long period of time.</li> </ul> <p><b>CAUTION:</b></p> <p>If only the MUTE/STANDBY LED is lit, this means that the power is turned off from the remote control unit. Turn the power on from the remote control unit.</p> <p><b>HINWEIS:</b></p> <ul style="list-style-type: none"> <li>Lassen Sie den Netzschalter (POWER) am Hauptgerät stets eingeschaltet.</li> <li>Schalten Sie den Strom mit dem Fernbedienungsgesetz ein- und aus.</li> <li>Trennen Sie das Netzkabel vom Netz ab, wenn Sie beabsichtigen, das Gerät über einen längeren Zeitraum hinweg nicht zu benutzen.</li> </ul> <p><b>VORSICHT:</b></p> <p>Wenn nur das Stumm-/Bereitschafts-LED (MUTE/STANDBY) leuchtet, so bedeutet dies, daß der Strom vom Fernbedienungsgesetz aus abgeschaltet worden ist. Schalten Sie den Strom vom Fernbedienungsgesetz ein.</p> <p><b>REMARQUE:</b></p> <ul style="list-style-type: none"> <li>S'assurer que le commutateur d'alimentation (POWER) sur l'unité principale soit toujours dans la position active.</li> <li>Accendez et éteignez le courant en utilisant l'électrocommande.</li> <li>Débranchez le cordon d'alimentation lorsque l'appareil ne sera pas utilisé pendant une longue période.</li> </ul> <p><b>ATTENTION:</b></p> <p>Quando il unico LED di silenziamento (MUTE/STANDBY) è illuminato, ciò significa che l'alimentazione è stata spenta con il telecomando. Attivare l'appareil con il telecomando.</p> <p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>Mantenha sempre o interruptor de Corrente (POWER) na unidade principal sempre ligado.</li> <li>Ligue e desligue a corrente a partir da unidade de controlo remoto.</li> <li>Desconecte o fio de força quando intenciar não utilizar a unidade por longo tempo.</li> </ul> <p><b>CAUTELA:</b></p> <p>Se apenas se iluminar o LED de surdina/espera (MUTE/STANDBY), isto significa que a força se desligou a partir do controlo remoto. Ligue a força a partir do controlo remoto.</p> <p><b>註:</b></p> <ul style="list-style-type: none"> <li>主機上的POWER (電源) 顯示燈一直保持亮燈。</li> <li>由遙控器將電源之開和關。</li> <li>本機打算長時間不用時應將電源接線拔下。</li> </ul> <p><b>注意:</b></p> <p>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。</p>

**FRONT PANEL  
FRONTPLATTE  
Panneau AVANT  
Pannello ANTERIORE**  
正面



**REAR PANEL  
RUCKWAND  
Panneau ARRIERE  
Pannello POSTERIORE**  
背面

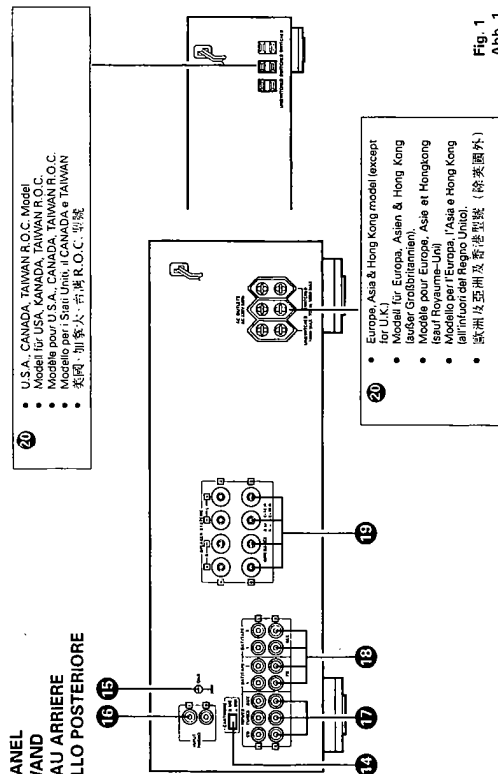


Fig. 1  
Abb. 1  
圖 1

**CONNECTIONS  
ANSCHLUSSE  
CONNEXIONS  
CONNESSIONI**  
連接方法

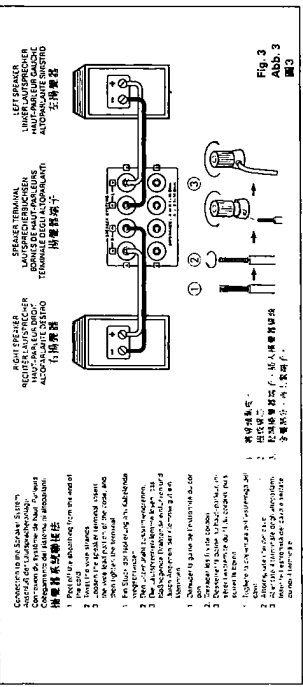
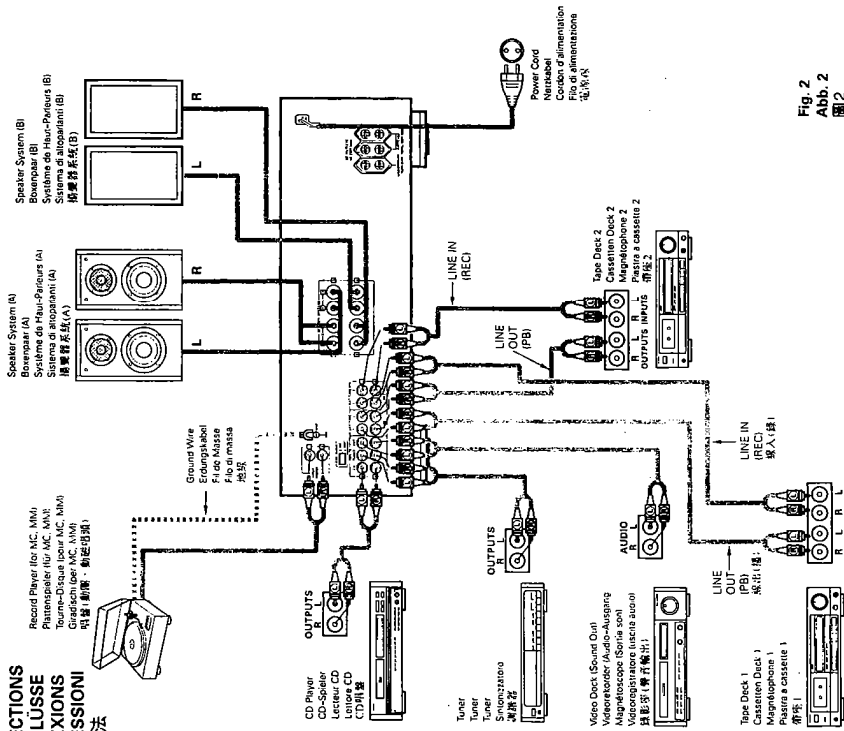



Fig. 2  
Abb. 2  
圖 2

Fig. 3  
Abb. 3  
圖 3

① CARTRIDGE	② GND	③ PHONO	④ CD, TUNER, AUX	⑤ SPEAKERS
Cartridge Reference Switch	GND	Phono Input Terminals (Phono)	CD, TUNER, AUX Pack Terminals	Speaker Terminals
Tonearm Reference Switch	GND	Cartridge/Reference Phono	Recording Terminals	Left/Right Terminals
Selecteur de tonneau	GND	Bornes d'entrée Phono	Terminali di registrazione CD, TUNER, AUX	Bornes de haut- parleurs
Interruttore a clic	GND	Terminali di ingresso Phono	Terminali di riproduzione CD, TUNER, AUX	Terminali degli altoparlanti
喇叭(傳聲器)	地線	唱機輸入端子 (唱機)	輸入端子 (CD, TUNER, 輔助)	揚聲器端子

**DESIGNATIONS AND FUNCTIONS OF PANEL CONTROLS**

**1 POWER (Power Switch)**

When the power switch is turned ON (  ), the MUTE/STANDBY LED lights. When the power switch is turned ON, power is supplied to the unit. 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 rest 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 (  ) 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 right side is too low, turn the knob to the right (  ). If the volume on the left side is too low, turn the knob to the left (  ). 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 (  ) to raise the volume and to the left (  ) 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 (  ), and reduced as it is moved to the left (  ). 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 (  ), and reduced as it is moved to the left (  ). When volume control **6** is set to the right of the center position, the effect of the other controls is reduced.

**14 SOURCE DIRECT (Source Direct Switch)**

The controls (BALANCE, LOUDNESS, and TONE) can be used when this switch is in the OFF (  ) position. When set to the ON (  ) position, the above controls are bypassed and the signals are input directly to the volume control circuit, providing high quality sound.

**15 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 on the tape deck.
- DAT/TAPE-1  2: Used to recording from the tape deck connected to the DAT/TAPE-1 jacks.
- DAT/TAPE-2  1: Used to recording from the tape deck connected to the DAT/TAPE-2 jacks.

**16 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.

**17 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.

**18 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 **6** (Rear Panel Selector) 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.

**19**

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

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

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

**20**


**AC OUTLETS: Rear Panel Side**

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 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: 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**

**PREPARATION**

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 (  )".

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 (headphone) 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 recording and playback cannot be used to monitor recording. When recording and playback 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 etc. 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**

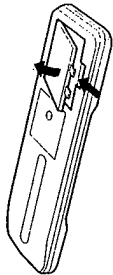
- This amplifier has a full memory back-up system. When the power is turned on, INPUT SELECTOR **6** are set to the last mode set before the power was turned off.

**REMOTE CONTROL OPERATION**

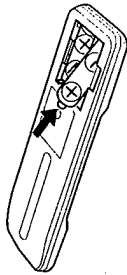
The accessory Remote Control Unit is used to control the amplifier from a convenient distance.

**(1) Inserting the Dry Cell Batteries**

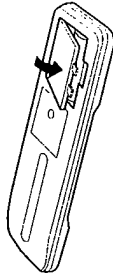
1. Remove the battery cover on the Remote Control Unit.



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

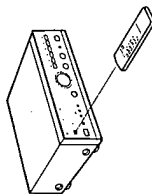


3. Replace the battery cover.



**(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**

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 tuner 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.

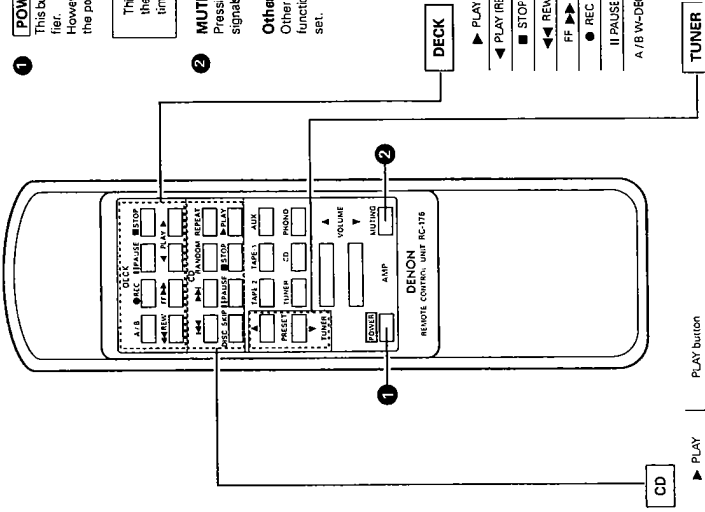
This button will not function if there is a power failure, if the power cord is not plugged in, or when using an audio timer.

**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.



▶ PLAY button	▶ PLAY button
■ STOP button	▶ PLAY (REV) button
◀ I-◀ button	■ STOP button
▶▶▶▶▶ button	◀◀◀◀◀ button
RANDOM button	◀◀◀◀◀ button
REPEAT button	▶▶▶▶▶ button
DISC SKIP button	▶▶▶▶▶ button
II PAUSE button	▶▶▶▶▶ button

**PRESET buttons**

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

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
<p><b>POWER AMPLIFIER SECTION</b></p> <p>Rated Output Power: 80W (80 Ohm Load) 20 Hz to 20 kHz, THD 0.02%/0.05% 60W (60 Ohm Load) 20 Hz to 20 kHz, THD 0.02%/0.05%</p> <p>*Continuous 80W/65W per channel into 8 Ohms load, 20 Hz to 20 kHz, no more than 0.02%/0.05% total harmonic distortion.</p> <p>Total Harmonic Distortion: 1-3 dB at rated output. 8 d(Bm)</p> <p><b>PRE AMPLIFIER SECTION</b> (Recall Terminal) Input Impedance: 100k Ohm PHONO: CD, TUNER, AUX, TAPE-1, TAPE-2</p> <p>RIAA Deviation: PHONO 0.3 dB Maximum Input: 100 mV</p> <p><b>OVERALL CHARACTERISTICS</b> SN Ratio (1 kHz A Weight): Input terminals short-circuited SOURCE-DIRECT ON</p> <p>Tone Control Adjustable: BASS TREBLE Loudness</p> <p><b>OTHERS</b> Power Supply</p> <p>AC Outlets: Switched x 2</p> <p>Unswitched x 1:</p> <p>Power Consumption Dimensions (W) x (H) x (D)</p>	<p><b>LEISTUNGSSTÄRKE VERSTÄRKER</b></p> <p>Nenn-Ausgangsleistung: 80 W (80 Ohm Last) 20 Hz bis 20 kHz, THD 0.02%/0.05% 60 W (60 Ohm Last) 20 Hz bis 20 kHz, THD 0.02%/0.05%</p> <p>*Fortwährende 80W/65W pro Kanal in 8 Ohm von 20 Hz bis 20 kHz, nicht mehr als 0.02%/0.05% Gesamtharmonikverfälschung.</p> <p>Gesamtharmonikverfälschung: 1-3 dB bei Nennausgang, 8 d(Bm)</p> <p><b>VORVERSTÄRKER</b> Nenn-Ausgangsleistung: (Auhörterminal) Eingangsimpedanz: 100 k Ohm PHONO: CD, TUNER, AUX, TAPE-1, TAPE-2</p> <p>Abweichung von der RIAA-Norm: PHONO 0,3 dB Maximaler Eingang: 100 mV</p> <p><b>GESAMTCHARAKTERISTIKEN</b> Signal/Rauschverhältnis (1 kHz A-Weicht): Eingangsanschlüsse kurzgeschlossen SOURCE-DIRECT ON</p> <p>Klingregulierung: TIEFEN (BASS) HOHEN (TREBLE) Lautstärke</p> <p><b>SONSTIGES</b> Netzspannung unter-Frequenz</p> <p>Wählrelais-Ausgänge Geschaltet x 2</p> <p>Ungeschaltet x 1:</p> <p>Leistungsaufnahme Abmessungen (B) x (H) x (T)</p>	<p><b>Partie Amplificateur</b></p> <p>Puissance nominale: 80 W (80 Ohms) 20 Hz à 20 kHz, THD 0.02%/0.05% 60 W (60 Ohms) 20 Hz à 20 kHz, THD 0.02%/0.05%</p> <p>*Puissance en continu par canal de 80 W/65 W sur une charge de 8 Ohms, de 20 Hz à 20 kHz sans une distorsion harmonique totale de 0.02%/0.05% au moins.</p> <p>Distorsion harmonique totale: 1-3 dB à la sortie nominale, 8 d(Bm)</p> <p><b>PRE-AMPLI</b> Puissance nominale: (Borne de sortie d'écoute) Impédance d'entrée: 100 k Ohms PHONO: CD, TUNER, AUX, TAPE-1, TAPE-2</p> <p>Variation RIAA: PHONO 0,3 dB Entrée max.: 100 mV</p> <p><b>CARACTÉRISTIQUES GÉNÉRALES</b> Rapport signal/bruit (réseau 1 kHz A): (bornes d'entrée court-circuitées) SOURCE DIRECT ON</p> <p>Commande de réglage de tonalité: GRAVES AIGÜES Compensation physiologique</p> <p><b>AUTRES</b> Alimentation</p> <p>Prises secteur (AC) Commandées x 2:</p> <p>Non commandées x 1:</p> <p>Consommation Dimensions (B) x (H) x (D)</p> <p>Poids <b>UNITÉ DE TELECOMMANDE</b> (RC-176) Système de télécommande: Système de télécommande infrarouge Alimentation: 3V CC, deux piles sèches de format R6P ("AA") Dimensions extérieures: Poids:</p>	<p>80W + 80W/65W + 66W 130W + 130W/100W + 100W 80W/65W</p> <p>0.007%</p> <p>150 mV</p> <p>MM 2.5 mV/47 kΩ/30mm MC 200 μV/100 Ω/30mm 150 mV/47 kΩ/30mm</p> <p>20 Hz - 20 kHz PHONO MM 180 mV/1 kHz MC 12mV/1 kHz</p> <p>PHONO: MM: 50 dB MC: 70 dB Input at 0.5 mV input</p> <p>CD, TUNER, AUX TAPE-1, TAPE-2: 107 dB</p> <p>100 Hz: ±6 dB 10 Hz: ±7 dB 10 kHz: ±6 dB</p> <p>AC 230V/650 Hz For Europe, Asia and Hong Kong models AC 200V/60 Hz For U.S.A., Canada and Taiwan R.O.C. models</p> <p>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)</p> <p>230W/100W (IEC) 4.2X3.6 (U.S.A. and Canada models) 4.2X3.6 (U.S.A., Canada, and Taiwan R.O.C. models) 17-3322: 46-536 x 13-567 434/091 x 142/111 x 346/100mm PMA-725R 17-3322: 45-1932 x 13-567 11 kg (24 lbs 4oz) / 9.6 kg (21 lbs 3oz)</p> <p>55W x 194H x 181Dmm 11.19kg / 24.76lb x 16.94" x 16.94" x 7.13" (including batteries)</p>

Note: \*1 For Europe, Asia and Hong Kong    Hinweis: \*1 Für Europa, Asien und Hong Kong  
 \*2 For U.S.A., Canada, and Taiwan R.O.C.    Hinweis: \*2 Für U.S.A., Kanada, und Taiwan R.O.C.

Specifications and contents are subject to change without notice for purposes of improvement.  
 Spezifikationen und Inhalte sind ohne Vorwarnung veränderbar.

**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-176) ..... 1  
 (3) Pilas R6P (AA) ..... 2

**NEDERLANDS**

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

(1) Gebruiksaanwijzing ..... 1  
 (2) Afstandsbediening (RC-176) ..... 1  
 (3) Batterijen R6P (AA) ..... 2

**SVENSKA**

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

(1) Bruksanvisning ..... 1  
 (2) Fjärrkontroll (RC-176) ..... 1  
 (3) Batterier R6P (AA) ..... 2

**PORTUGUÊS**

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

(1) Instruções de operação ..... 1  
 (2) Unidade de controle remoto (RC-176) ..... 1  
 (3) Baterias R6P (AA) ..... 2

**中文**

下列物品應與主機一起包裝於紙箱內，請查對：

(1) 使用說明書 ..... 1  
 (2) 遙控器 (RC-176) ..... 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-176) ..... 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-176) ..... 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-176) ..... 1  
 (3) Piles R6P (AA) ..... 2

**ITALIANO**

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

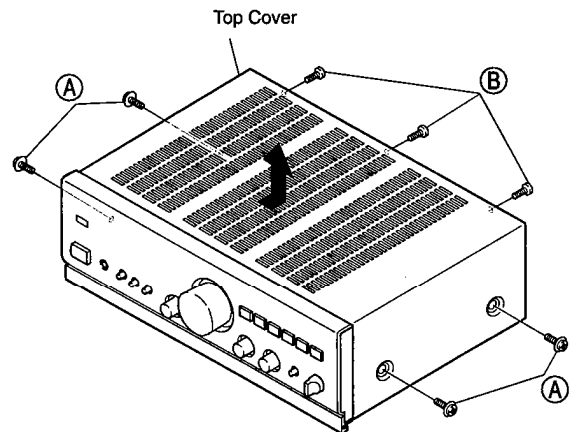
(1) Libretto delle istruzioni ..... 1  
 (2) Telecomando (RC-176) ..... 1  
 (3) Batterie R6P (AA) ..... 2

**MEMO:**

## REMOVAL OF EACH SECTION

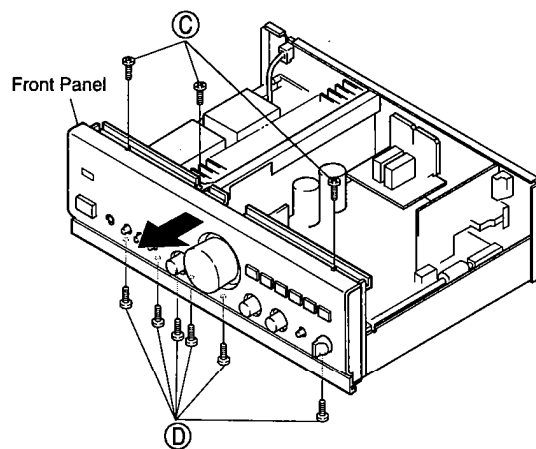
### ● Top Cover

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



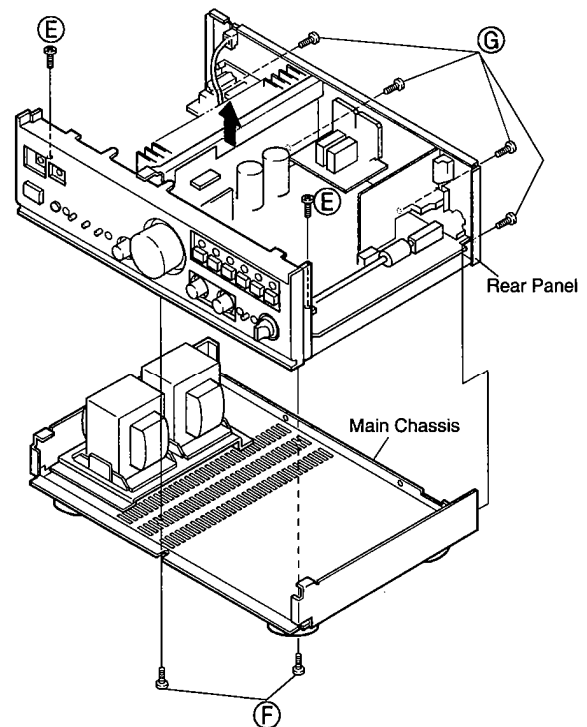
### ● Front Panel

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



### ● Main Chassis

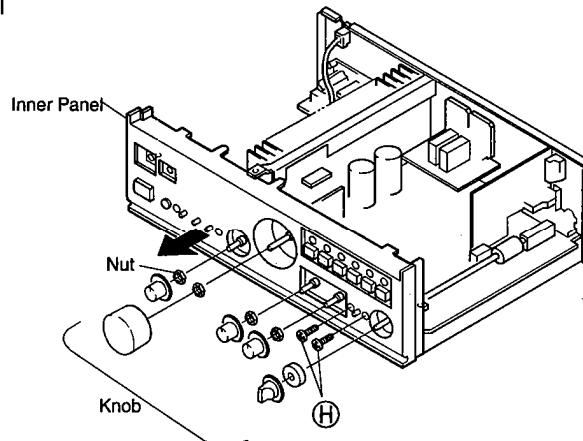
- 1) Remove 2 screws (E).
- 2) Remove 2 screws (F) securing Power Radiator with Main Chassis.
- 3) Remove 4 screws (G) securing Rear Panel with Main Chassis.





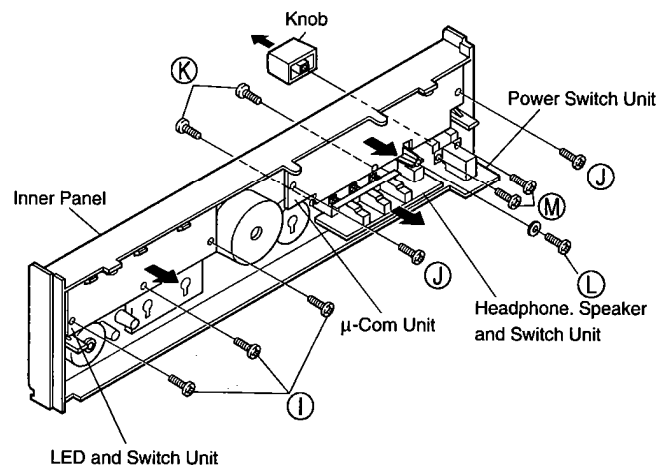
## ● Inner Panel

- 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  $\mu$ -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.

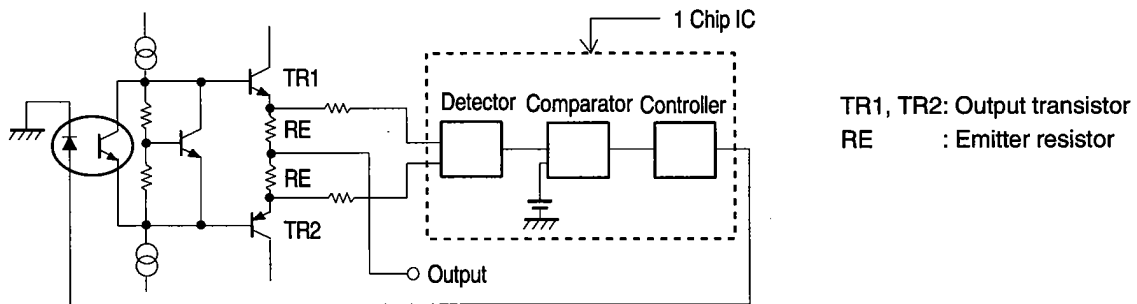


Fig. 1

### 3. POWER SUPPLY FOR ACTUATING CONTROL CIRCUIT

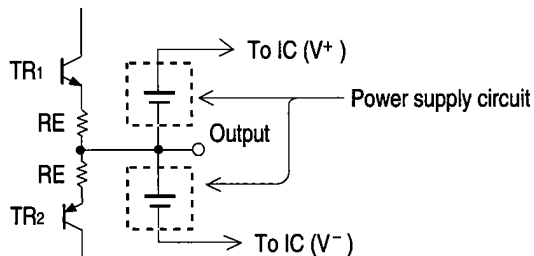


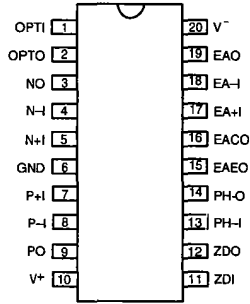
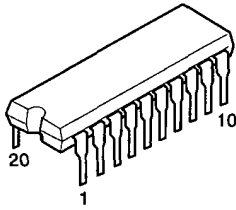
Fig. 2

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.

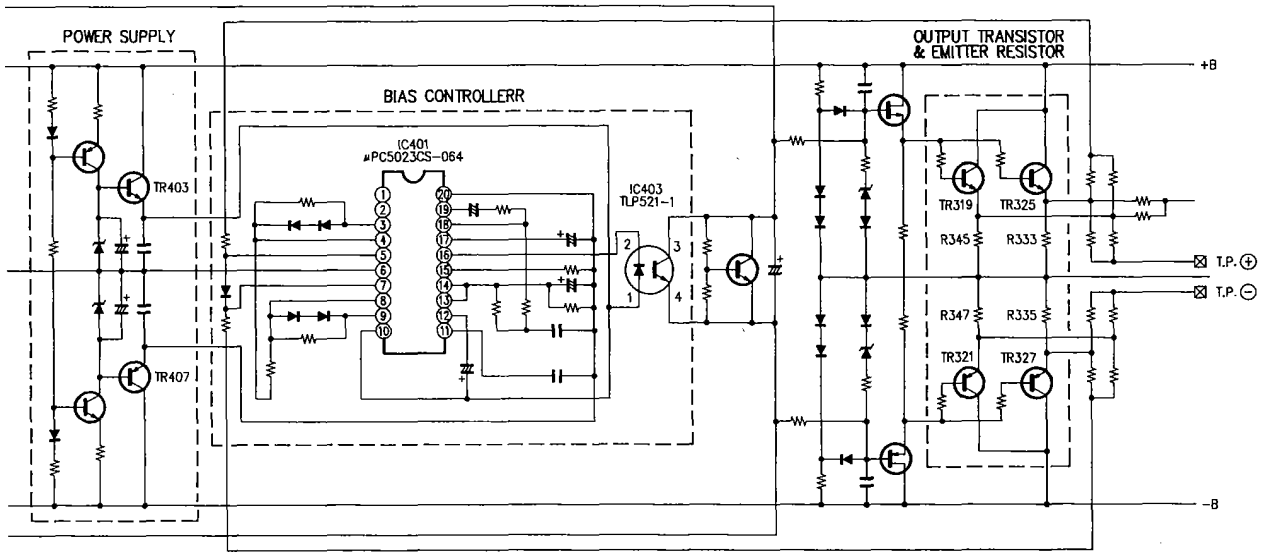
### 4. IC DESCRIPTION (μPC5023CS-064)



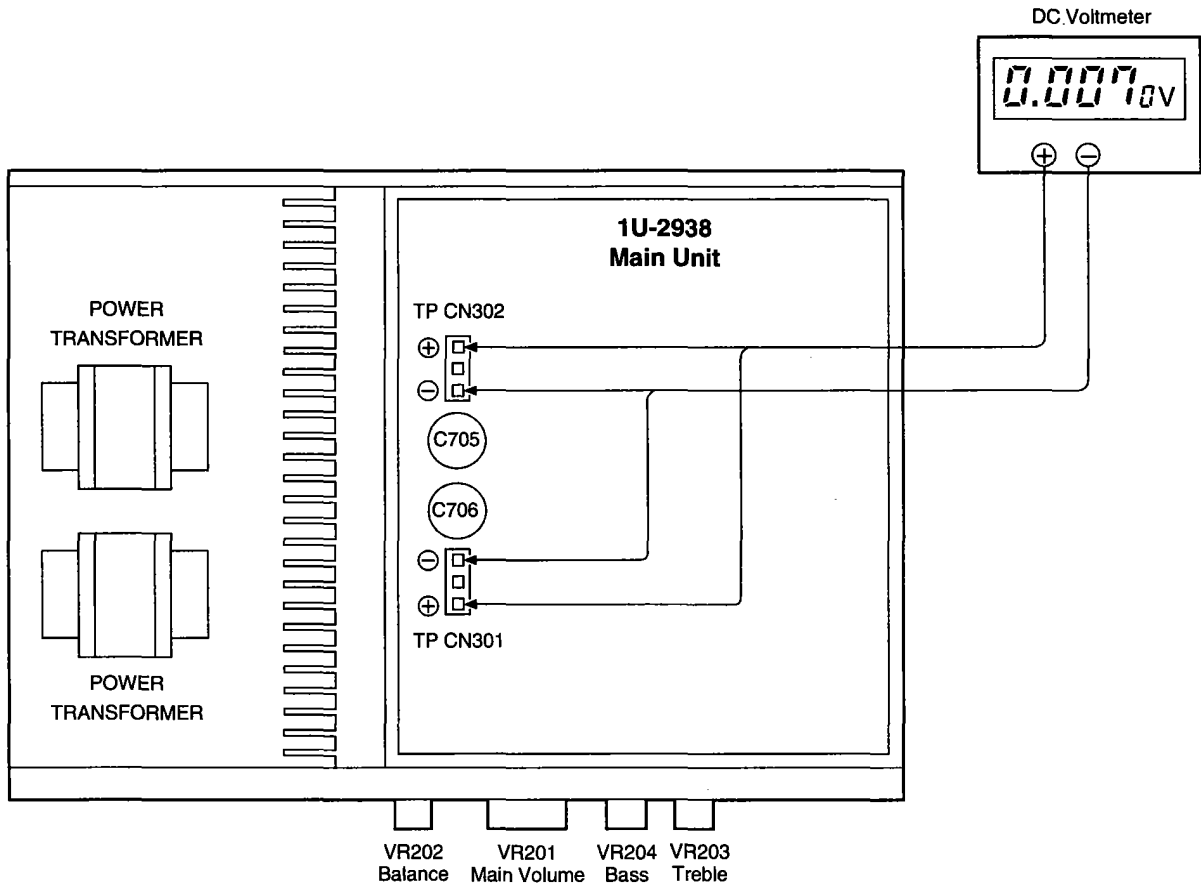
Pin. No.	Name	Contents
1	OPTI	NCP
2	OPTO	
3	NO	Comparator output
4	N-I	Comparator input (-)
5	N+I	Comparator input (+)
6	GND	Floating common
7	P+I	Comparator input (+)
8	P-I	Comparator input (-)
9	PO	Comparator output
10	V+	+ Power supply

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	EAEI	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

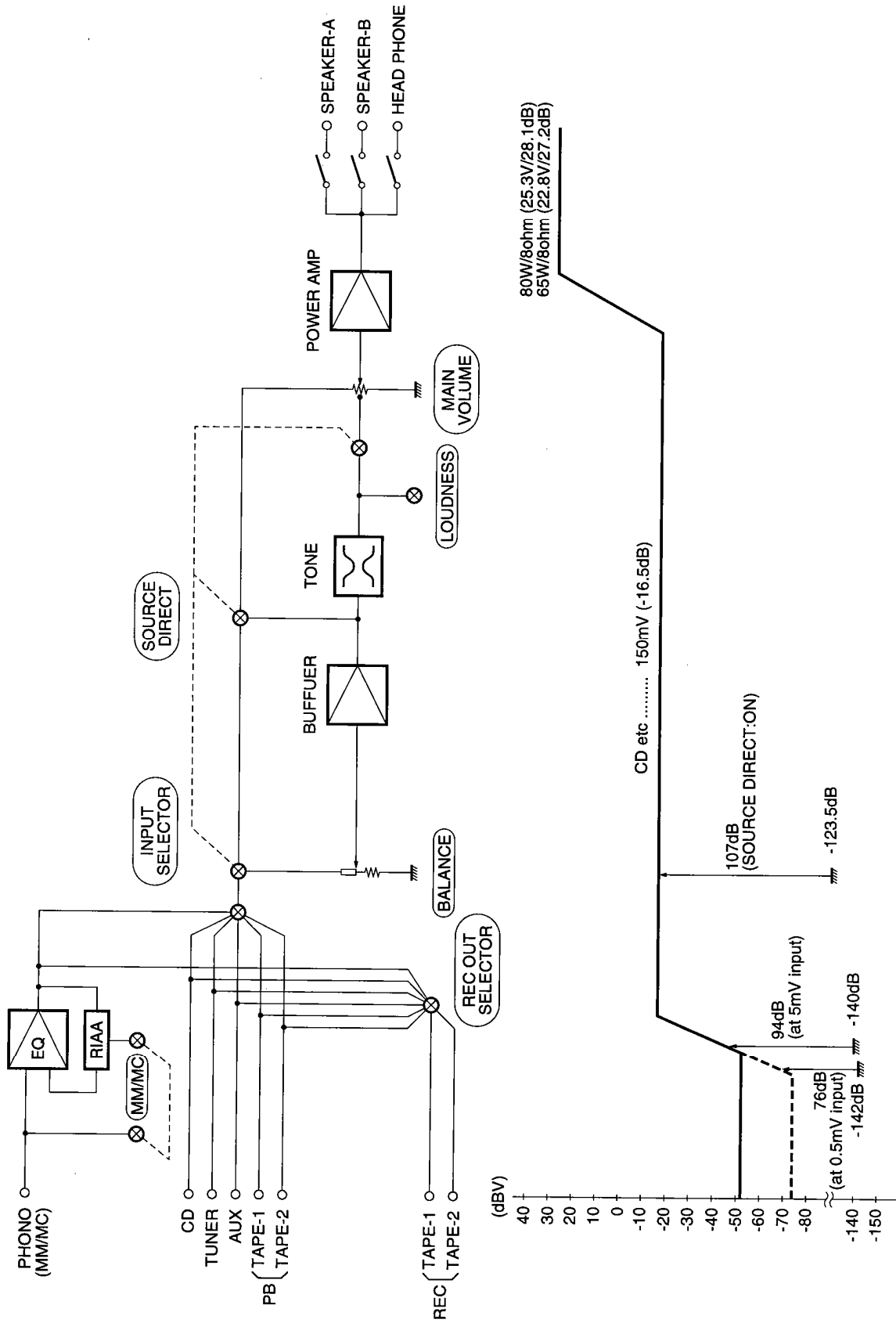
#### ● Setup

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.

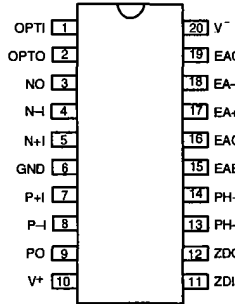
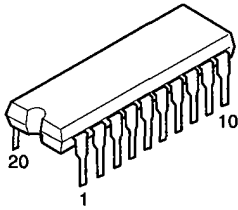
# BLOCK AND LEVEL DIAGRAM



# SEMICONDUCTORS

## ● IC's

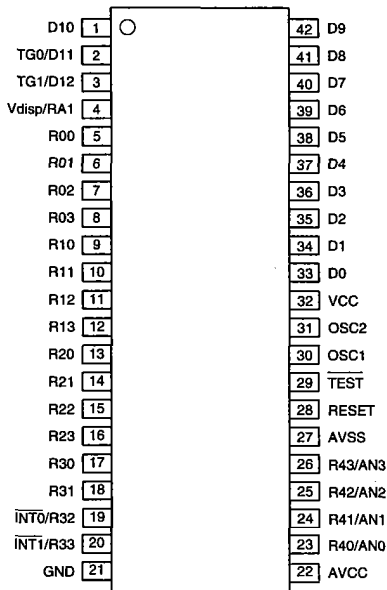
### μPC5023CS-064 (IC401,402)



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

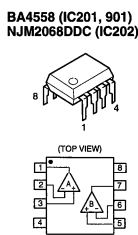
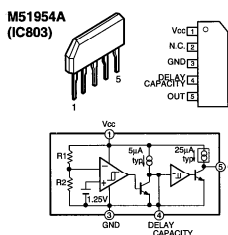
Pin. No.	Name	Contents
11	ZDI	Control signal stabiliser input
12	ZDO	Control signal stabiliser output
13	PH-I	Peak hold input
14	PHO	Peak hold output
15	EAE0	Controller gain setting
16	EACO	Control signal output
17	EA+I	Reference voltage
18	EA-I	Comparator gain setting
19	EAO	Comparator output
20	V-	- Power supply

### HD404304A13P (IC801)

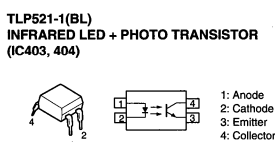
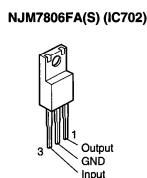


### HD404304A13P Terminal Function

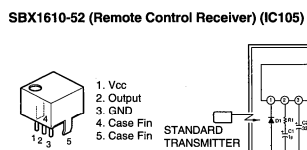
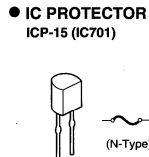
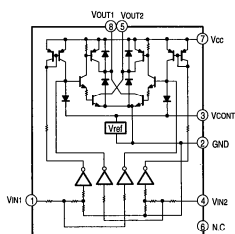
Pin No.	Name	I/O	Contents	Active
1	D10	O	MUTE/STANDBY LED Indication	H
2	TG0/D11	O	NOP	
3	TG1/D12	O	Power Control (REMOTE Power-ON/OFF)	L
4	Vdisp/RA1	I	NOP	
5	R00	O	NOP	
6	R01	O	Muting Control (Power ON-OFF, Function Shifting, MUTING)	L
7	R02	O	SP-A Control	H
8	R03	O	SP-B Control	H
9	R10	O		H
10	R11	O	Key scan strobe	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	Mutually reset;
36	D3	O	TAPE-1 Control	
37	D4	O	NOP	
38	D5	O	AUX Control	
39	D6	O	TUNER Control	
40	D7	O	NOP	
41	D8	O	CD Control	
42	D9	O	PHONO Control	H



1. A OUTPUT
2. A-INP/UT
3. A+INP/UT
4. V-
5. B-INP/UT
6. B-INP/UT
7. B OUTPUT
8. V+



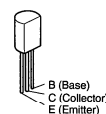
- 1: Anode
- 2: Cathode
- 3: Emitter
- 4: Collector



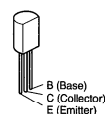
- IC1 : CX20106A Chip
- D1 : PIN Photo Diode Chip
- C1,C2,C4 : Aluminum Electrolytic Capacitor
- C3 : SL Characteristic ±5%
- R1 : Gain Adjuster
- R2 : to Adjuster ±1% USE
- R3,4 : ±5%

● TRANSISTORS

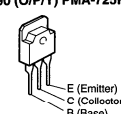
- 2SA970 (BL, (BL/GR)
- 2SA988 (E/F)
- 2SC1841 (E/F)
- 2SC1815 (BL)
- 2SC2240 (BL/GR)



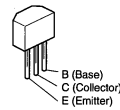
- 2SA1145 (O/Y)
- 2SC2705 (O/Y)



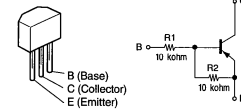
- 2SA1491 (O/P/Y)/(Z) PMA-925R
- 2SC3855 (O/P/Y)/(Z) PMA-925R
- 2SB1560 (O/P/Y) PMA-725R
- 2SD2390 (O/P/Y) PMA-725R



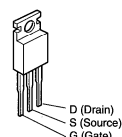
- 2SA1038S (S/E)
- 2SA933S (S)
- 2SC2389S (S/E)
- 2SC1740S (S)



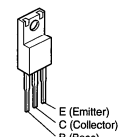
**DTA114ES**



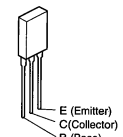
- 2SJ78
- 2SK215



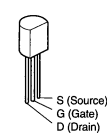
- 2SD2395 (E/F)
- 2SB1566 (E/F)



- 2SB1328 (P)

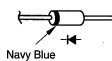


- 2SK369 (BL)/(GR)-C



● DIODES (including LED)

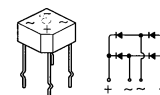
- 1SS252



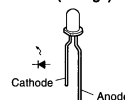
- MTZJ 3.9A
- MTZJ 7.5A
- MTZJ 36A
- MTZJ 16A
- MTZJ 18A



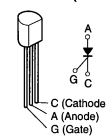
- S4VB20F (D702) PMA-725R
- 4D4B42 (D702) PMA-925R



- 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-2938C MAIN UNIT ASS'Y FOR PMA-925R

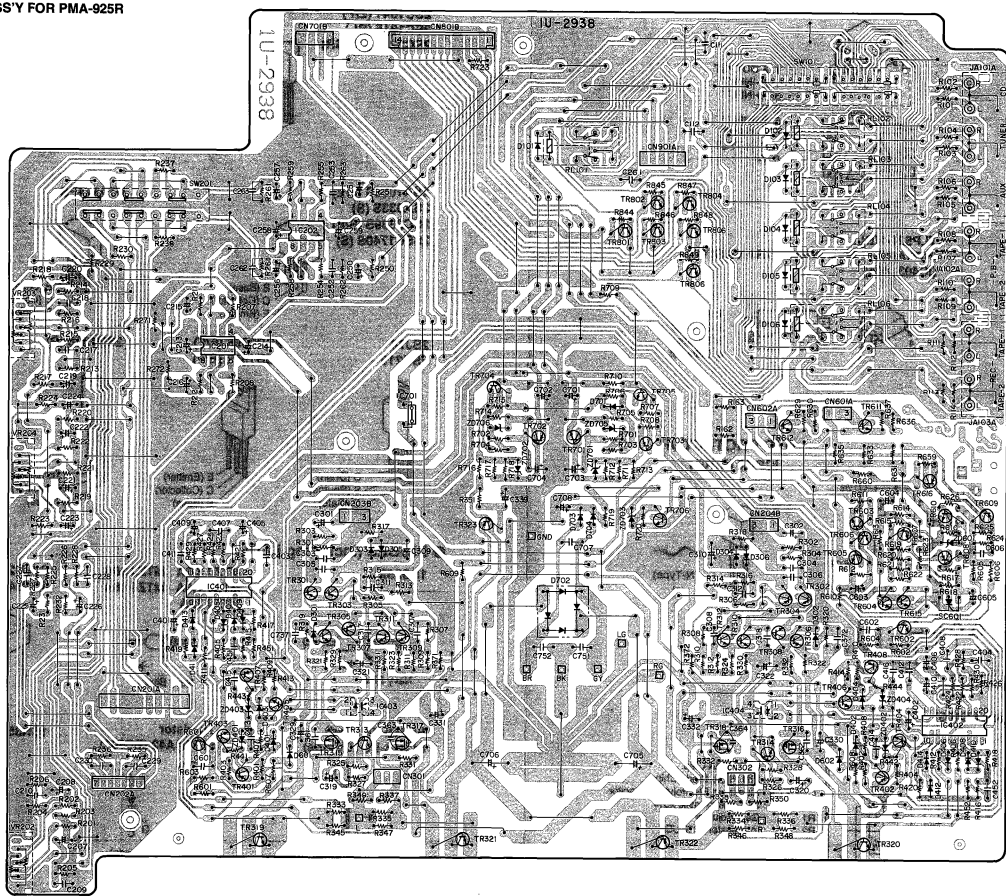
A

B

C

D

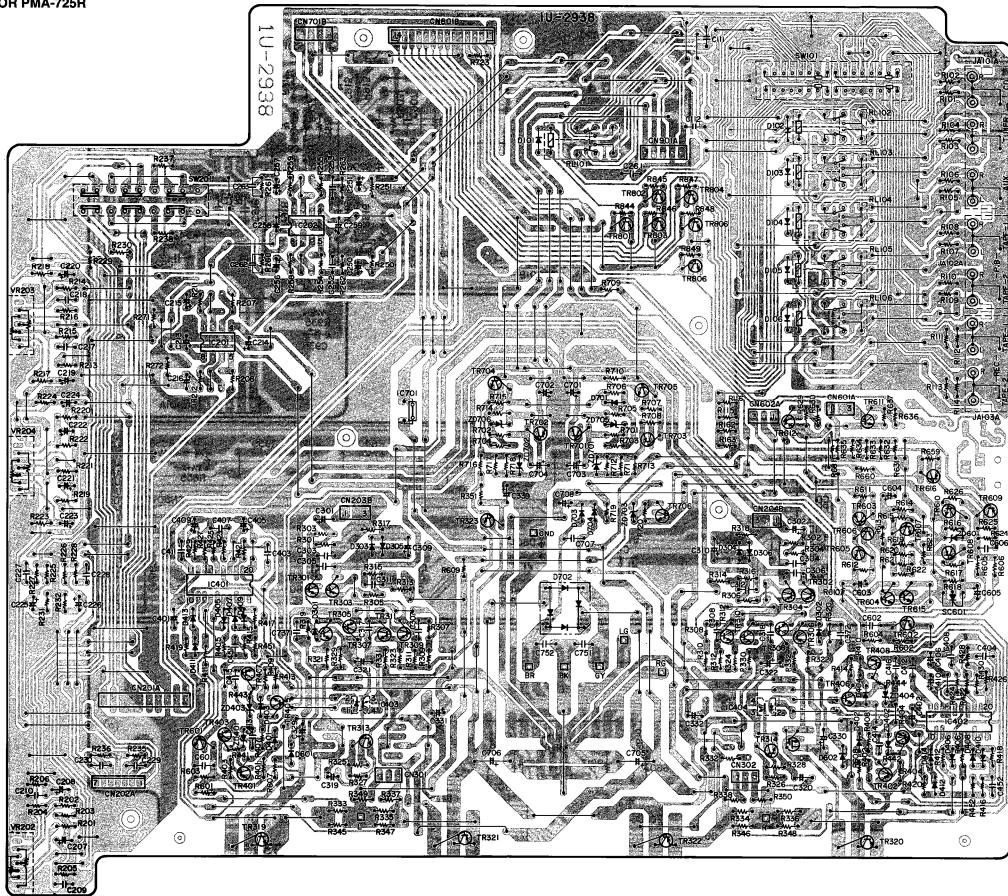
E





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

1 2 3 4 5 6 7 8

1U-2939A μ-COM. UNIT ASS'Y

1U-2939A μ-Com. Unit Ass'y
-1 μ-Com. Unit
-2 LED Unit
-3 Phono Unit
-4 Supply Unit

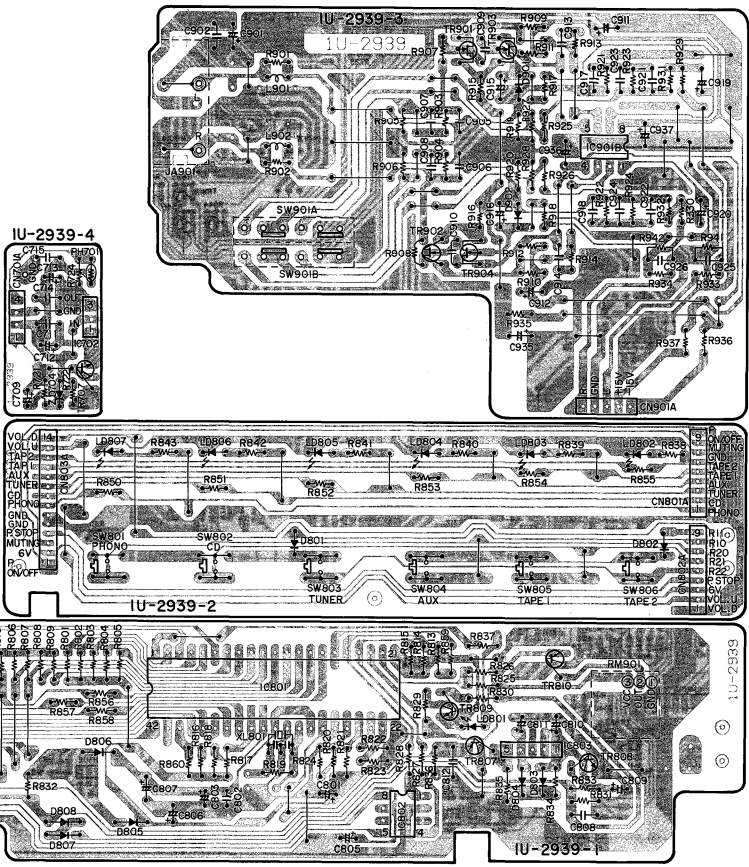
A

B

C

D

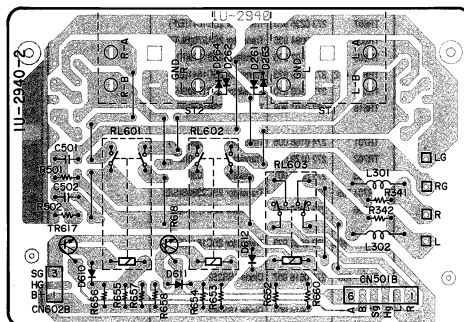
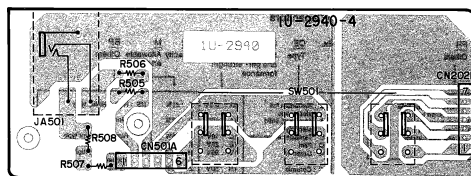
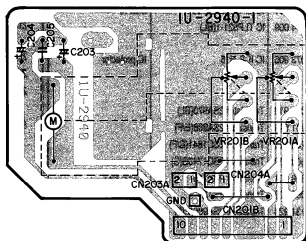
E



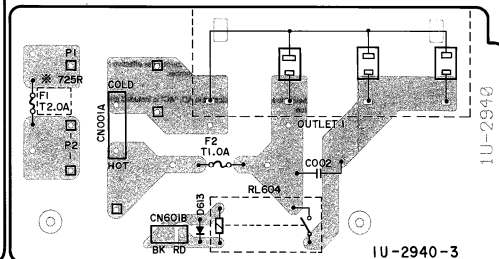
1 2 3 4 5 6 7 8

1U-2940 VOLUME UNIT ASS'Y  
 1U-2940A : PMA-725R EUROPE Model  
 1U-2940B : PMA-725R U.K. Model  
 1U-2940C : PMA-925R

1U-2940 Volume Unit Assy	
-1	Volume Unit
-2	Speaker Unit
-3	AC Outlet Unit
-4	Speaker Sel. Unit




\* PMA-925R : FI T2.5A



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" (1) 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 ±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**

RN	14K	2E	182	G	FR
Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon	SB : 1/8W	F : ±1%	P : Pulse-resistant type		
RE : Composites	SC : 1/4W	G : ±2%	RL : Low noise type		
RF : Metal oxide film	SD : 1/2W	J : ±5%	NR : Non-burning type		
RW : Winding	SA : 1W	K : ±10%	FR : Film-resistor		
RN : Metal film	SD : 2W	M : ±20%	F : Lead wire forming		
RS : Metal mixture	SP : 3W				
	SH : 5W				

- Resistance**
- 1 8 2 ⇒ 1800 ohm = 1.8 kohm  
Indicates number of zeros after effective number.  
2-digit effective number.
- Units: ohm
- 1 R 2 ⇒ 1.2 ohm  
1-digit effective number.  
2-digit effective number, decimal point indicated by R.
- Units: ohm

**Capacitors**

CE	04W	1H	2R2	M	BP
Type	Shape	Dielectric and performance	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic	0J : 6.3V	F : ±1%	NS : High stability type		
CA : Aluminum oxide electrolytic	1A : 10V	G : ±2%	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		
	1V : 35V	M : ±20%	HF : For assuring high frequency		
CC : Ceramic	1H : 50V	Z : ±80%	U : UL part		
CP : Oil	2A : 100V	30% : ±30%	C : CSA part		
CM : Mica	2B : 125V	P : ±100%	W : UL-CSA type		
CF : Metallized	2C : 150V	±0%	UL-CSA type		
CH : Metallized	2D : 200V	C : ±0.25pF	F : Lead wire forming		
	2E : 250V	D : ±0.5pF			
	2H : 500V	±0%			
	2J : 500V	±0%			

- Capacity (electrolyte only)**
- 2 2 2 ⇒ 2200µF  
Indicates number of zeros after effective number.  
2-digit effective number.
- Units: µF
- 2 R 2 ⇒ 2.2µF  
1-digit effective number.  
2-digit effective number, decimal point indicated by R.
- Units: µF
- Capacity (except electrolyte)**
- 2 2 2 ⇒ 2200pF = 0.0022µF  
(More than 2) - Indicates number of zeros after effective number.  
2-digit effective number.
- Units: pF
- 2 2 1 ⇒ 220pF  
(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
<b>SEMICONDUCTORS GROUP</b>				<b>RESISTORS GROUP</b>			
IC201	263 0322 004	IC BA4558	Linear op. amp	VR202	211 0798 103	Variable resistor 100kohm	Balance
IC202	263 0609 002	IC NJM2068DDC		VR203	211 0834 012	Variable resistor 10kohm	Treble
IC401,402	263 0930 001	IC µPC5023CS-064	Bias IC	VR204	211 0834 009	Variable resistor 30kohm	Bass
IC403,404	262 0874 009	IC TLP521-1(BL)		R118	244 0157 003	Metal oxide 2.2kohm 5W	RS1483F222J(NB)(S)
IC701	268 0073 905	IC ICP-N15	IC protector	R182	244 0157 003	Metal oxide 2.2kohm 3W	RS1483F222J(NB)(S)
TR301~304	271 0094 919	Transistor 2SA970(BL)		R309~312	241 2380 963	Carbon film 2.2kohm 1/4W	RD1482E222J(NB)(S)
TR305,306	271 0131 924	Transistor 2SA988(E/F)		R317,318	241 2377 963	Carbon film 120ohm 1/4W	RD1482E121J(NB)(S)
TR307~312	273 0235 923	Transistor 2SC1841(E/F)		R319~322	241 2377 976	Carbon film 130ohm 1/4W	RD1482E131J(NB)(S)
TR313,314	273 0303 910	Transistor 2SC1841(E/F)		R323,324	241 2315 967	Fusible resistor 68ohm 1/4W	RD1482E680F(NB)(S)
TR315,316	275 0069 001	Transistor 2SK215	N type FET	R325,326	241 2380 950	Carbon film 2kohm 1/4W	RD1482E202J(NB)(S)
TR317,318	275 0068 002	Transistor 2SK215	P type FET	R327,328	241 2379 929	Carbon film 560ohm 1/4W	RD1482E561J(NB)(S)
TR323	271 0131 924	Transistor 2SA988(E/F)		R331,332	241 2378 920	Carbon film 220ohm 1/4W	RD1482E221J(NB)(S)
TR401,402	271 0280 901	Transistor 2SA1038S(S/E)		R333~336	244 2043 882	Metal oxide 0.22ohm 1W	RS1483AR22J(NB)(S)
TR403,404	273 0281 906	Transistor 2SC2705(O)(V)		R345~348	244 2043 982	Metal oxide 0.22ohm 1W	RS1483AR22J(NB)(S)
TR405,406	273 0432 904	Transistor 2SC2389S(S/E)		R351	241 2378 887	Carbon film 1kohm 1/4W	RD1482E102J(NB)(S)
TR407,408	271 0168 900	Transistor 2SA1145(O)(V)		R401,402	241 2379 916	Carbon film 810ohm 1/4W	RD1482E511J(NB)(S)
TR601,602	273 0235 923	Transistor 2SC1841(E/F)		R403,404	241 2378 946	Carbon film 270ohm 1/4W	RD1482E271J(NB)(S)
TR603~605	273 0303 910	Transistor 2SC1740S(S)		R408,410	241 2379 916	Carbon film 510ohm 1/4W	RD1482E511J(NB)(S)
TR606	271 0192 905	Transistor 2SA933S(S)		R413,414	241 2378 946	Carbon film 270ohm 1/4W	RD1482E271J(NB)(S)
TR607	273 0235 923	Transistor 2SC1841(E/F)		R441~444	241 2378 967	Carbon film 1kohm 1/4W	RD1482E102J(NB)(S)
TR608	271 0194 935	Transistor 2SA970(BL)(GR)		R601~604	241 2380 950	Carbon film 2kohm 1/4W	RD1482E202J(NB)(S)
TR609	272 0107 906	Transistor 2SB1328(P)		R631	244 2069 018	Metal oxide 3kohm 5W	RS1483R30J(NB)(S)
TR610~612	273 0235 923	Transistor 2SC1841(E/F)		R633	244 2069 018	Metal oxide 3kohm 5W	RS1483R30J(NB)(S)
TR615	273 0303 910	Transistor 2SC1740S(S)		R635	244 2069 018	Metal oxide 3kohm 5W	RS1483R30J(NB)(S)
TR616	272 0107 906	Transistor 2SB1328(P)		R711,712	244 2043 908	Metal oxide 680ohm 1W	RS1482A681J(NB)(S)
TR701	274 0168 006	Transistor 2SD2395(E/F)		R713	241 2387 940	Carbon film 4.7ohm 1/4W	RD1482E4R7J(NB)(S)
TR702	272 0129 007	Transistor 2SB1566(E/F)		R716	241 2387 940	Carbon film 4.7ohm 1/4W	RD1482E4R7J(NB)(S)
TR703	271 0280 901	Transistor 2SA1038S(S/E)		R717,718	244 2043 908	Metal oxide 680ohm 1W	RS1483A681J(NB)(S)
TR704,705	273 0432 904	Transistor 2SC2389S(S/E)					
TR706	273 0303 910	Transistor 2SC1740S(S)					
TR801~806	273 0235 923	Transistor 2SC1841(E/F)					
D101~106	276 0616 907	Diode 1SS252					
D301~306	276 0616 907	Diode 1SS252					
D351,352	276 0616 907	Diode 1SS252					
D401~414	276 0616 907	Diode 1SS252					
D601,602	276 0616 907	Diode 1SS252					
D701	276 0553 905	Diode 1SR35-200A					

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	
<b>CAPACITORS GROUP</b>								
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)	<b>OTHERS PARTS GROUP</b>				
C219,220	254 4260 919	Electrolytic 0.22μF/50V	CE04W1HR22M		—	(P.W.board)		Q'ty
C221,222	254 4260 906	Electrolytic 0.1μF/50V	CE04W1H0R1M					(1)
C223,224	254 4260 935	Electrolytic 0.47μF/50V	CE04W1HR47M	SW101	212 0336 005	Rotary switch	Rec out sel.	1
C225,226	254 4260 922	Electrolytic 0.33μF/50V	CE04W1HR33M	SW202	212 1161 004	1P push switch	Surce direct	1
C227,228	256 1034 953	Metalized 0.068μF/50V	CF93A1H683J	RL101-106	214 0178 007	Relay(MR62-12USRY)		6
C229,230	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)		204 8266 008	4P pin jack(S-GND)	for TAPE	2
C250,251	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M		204 8278 009	6P pin jack(S-GND)	for INPUTS	1
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
<b>SEMICONDUCTORS GROUP</b>							
IC105	499 0150 008	IC SBX1610-52	Remote sensor	C809	254 4196 973	Electrolytic 4.7μF/50V	CE04W1H4R7M(SRA)
IC702	263 0793 002	IC NJM7806FA(S)	Regulator +6 V	C810	254 4196 944	Electrolytic 1μF/50V	CE04W1H010M(SRA)
IC801	262 1579 303	IC HD404304A13P	μ-com	C811	254 4196 928	Electrolytic 0.33μF/50V	CE04W1HR33M(SRA)
IC802	263 0476 002	IC LB1639	Motor driver	C812	256 1034 982	Metallized 0.12μF/50V	CF93A1H124J
IC803	263 0535 008	IC M51954AL	Reset IC	C901	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
IC901	263 0322 004	IC BA4558		C902	253 1181 917	Ceramic cap. 0.022μF/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 1μF/50V	CE04W1H010M
TR901-904	275 0038 045	Transistor 2SK369(BL)(GR)-C	N type FET ΔVGS	C913,914	255 1251 937	Film cap. 3300pF/50V	CQ92M1H332J(MRZ)
D801-805	276 0616 907	Diode 1SS252		C915,916	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M
D806	276 0553 905	Diode 1SR35-200A		C917,918	256 1034 953	Metallized 0.068μF/50V	CF93A1H683J
D807,808	276 0616 907	Diode 1SS252		C919,920	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
D901,902	276 0616 907	Diode 1SS252		C921,922	255 4223 959	Film cap. 0.018μF/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 100μF/10V	CE04W1A101M
PH701	279 0034 041	Posistor PTH9M04BD222TS2F333		C936,937	254 4256 936	Electrolytic 47μF/25V	CE04W1E470M
<b>RESISTORS GROUP</b>				<b>OTHERS PARTS GROUP</b>			
△R832	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS		—	(P.W.board)	(1)
△R836,937	241 2377 905	Carbon film 68ohm 1/4W	RD14B2E68QJNBS	L901,902	235 9003 002	Inductor (150μH)	FTZ choke coil 2
<b>CAPACITORS GROUP</b>				XL801	399 9018 003	Resonator	CST4.00 MGW 1
C709	254 4263 916	Electrolytic 0.22μF/100V	CE04W2AR22M	SW801-806	212 4789 001	Tact switch	6
C711	253 1181 904	Ceramic cap. 0.01μF/50V	CK45F1H103Z	SW901	212 1099 008	1P push swtch	MM/MC 1
C712,713	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M		204 8413 000	2P pin jack(C-GND)	PHONO 1
C714,715	253 1181 904	Ceramic cap. 0.01μF/50V	CK45F1H103Z		415 0309 013	P.V.C.tube L=10	for PH701 2
C801	254 4213 937	Electrolytic 100μF/6.3V	CE04W0J101M(SRA)				
C802	253 1181 917	Ceramic cap. 0.022μF/50V	CK45F1H223Z				
C803	254 4213 937	Electrolytic 100μF/6.3V	CE04W0J101M(SRA)				
C805	254 4213 937	Electrolytic 100μF/6.3V	CE04W0J101M(SRA)				
C806	254 6190 906	Electrolytic 330μF/6.3V	CE04W0J331M(SRA)				
C807	259 0007 003	Back up cap. 8200μF/5.5V	SB CAP=822=				
C808	253 1181 917	Ceramic cap. 0.022μF/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
<b>SEMICONDUCTORS GROUP</b>				<b>SEMICONDUCTORS GROUP</b>			
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 $\mu$ PC5023CS-064	Bias IC
D610-612	276 0616 907	Diode 1SS252		IC403,404	262 0874 009	IC TLP521-1(BL)	
<b>RESISTORS GROUP(Not included carbon film <math>\pm</math>5%, 1/4W)</b>				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)	
$\Delta$ R341,342	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3A22JNBS(S)	TR305,306	271 0131 924	Transistor 2SA988(E/F)	
$\Delta$ R501,502	244 2043 937	Metal oxide 10ohm 1W	RS14B3A100JNBS(S)	TR307-312	273 0235 923	Transistor 2SC1841(E/F)	
$\Delta$ R505-508	244 2050 933	Metal oxide 180ohm 1W	RS14B3A181JNBS(S)	TR313,314	273 0303 910	Transistor 2SC1740S(S)	
$\Delta$ R652	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB	TR323	271 0131 924	Transistor 2SA988(E/F)	
$\Delta$ R653	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNB(S)	TR401,402	271 0280 901	Transistor 2SA1038S(S/E)	
$\Delta$ R654	244 2069 005	Metal oxide 2.4kohm 5W	RS14B3H242JNB(S)	TR403,404	273 0281 906	Transistor 2SC2705(O)/(Y)	
$\Delta$ R655	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNB(S)	TR405,406	273 0432 904	Transistor 2SC2389S(S/E)	
$\Delta$ R656	244 2069 005	Metal oxide 2.4kohm 5W	RS14B3H242JNB(S)	TR407,408	271 0168 900	Transistor 2SA1145(O)/(Y)	
$\Delta$ R660	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB	TR601,602	273 0235 923	Transistor 2SC1841(E/F)	
<b>CAPACITORS GROUP</b>				TR603-605	273 0303 910	Transistor 2SC1740S(S)	
$\Delta$ C002	253 8003 713	Ceramic cap. 4700pF/400V AC	CK45E2GAC472MC	TR606	271 0192 905	Transistor 2SA933S(S)	
C203,204	254 4254 909	Electrolytic 10 $\mu$ F/16V	CE04W1C100M	TR607	273 0235 923	Transistor 2SC1841(E/F)	
C205	255 1265 936	Film cap. 0.01 $\mu$ F/50V	CQ93M1H103J(B)	TR608	271 0094 935	Transistor 2SA970(BL/GR)	
C501,502	256 1034 979	Metalized 0.1 $\mu$ F/50V	CF93A1H104J	TR609	272 0107 906	Transistor 2SB1328(P)	
<b>OTHERS PARTS GROUP</b>				TR610	273 0235 923	Transistor 2SC1841(E/F)	
	—	(P.W.board)		TR611	273 0235 923	Transistor 2SC1841(E/F)	Europe model only
L301,302	235 0104 007	Inductor(1mH)		R612	273 0235 923	Transistor 2SC1841(E/F)	
	202 0022 008	Fuse holder	for F001,002	TR615	273 0303 910	Transistor 2SC1740S(S)	
$\Delta$ F001	206 1015 032	Fuse(2.5A)		TR616	272 0107 906	Transistor 2SB1328(P)	
$\Delta$ F002	206 1015 029	Fuse(1A T)		TR701	274 0168 006	Transistor 2SD2395(E/F)	
	513 0654 017	Fuse label (T. 25A)	for F001	TR702	272 0129 007	Transistor 2SB1566(E/F)	
$\Delta$	415 0299 000	Capacitor cover	for C002	TR703	271 0280 901	Transistor 2SA1038S(S/E)	
$\Delta$ RL001	214 0142 004	Relay(TV-5)		TR704,705	273 0432 904	Transistor 2SC2389S(S/E)	
RL601,602	214 0129 001	Relay(DH2TU)	for SP-A,B	TR706	273 0303 910	Transistor 2SC1740S(S)	
RL603	214 0178 007	Relay(MR62-12USRY)	for Headphone	TR801-806	273 0235 923	Transistor 2SC1841(E/F)	
SW501	212 1162 003	3P push switch	for Speaker	D101-106	276 0616 907	Diode 1SS252	
	205 0484 001	8P speaker terminal	ON-OFF	D301-306	276 0616 907	Diode 1SS252	
	204 8503 004	Head phone jack	for Speaker	D351,352	276 0616 907	Diode 1SS252	
$\Delta$	203 3950 002	3P AC outlet	JA501	D401-414	276 0616 907	Diode 1SS252	
$\Delta$	205 0692 000	2P wrapping terminal	AOL-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 S4VR20F	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	RS14B3AR22JNBS(S)
△R345-348	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3AR22JNBS(S)
△R351	241 2379 967	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 967	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)
△R661	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
<b>CAPACITORS GROUP</b>			
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



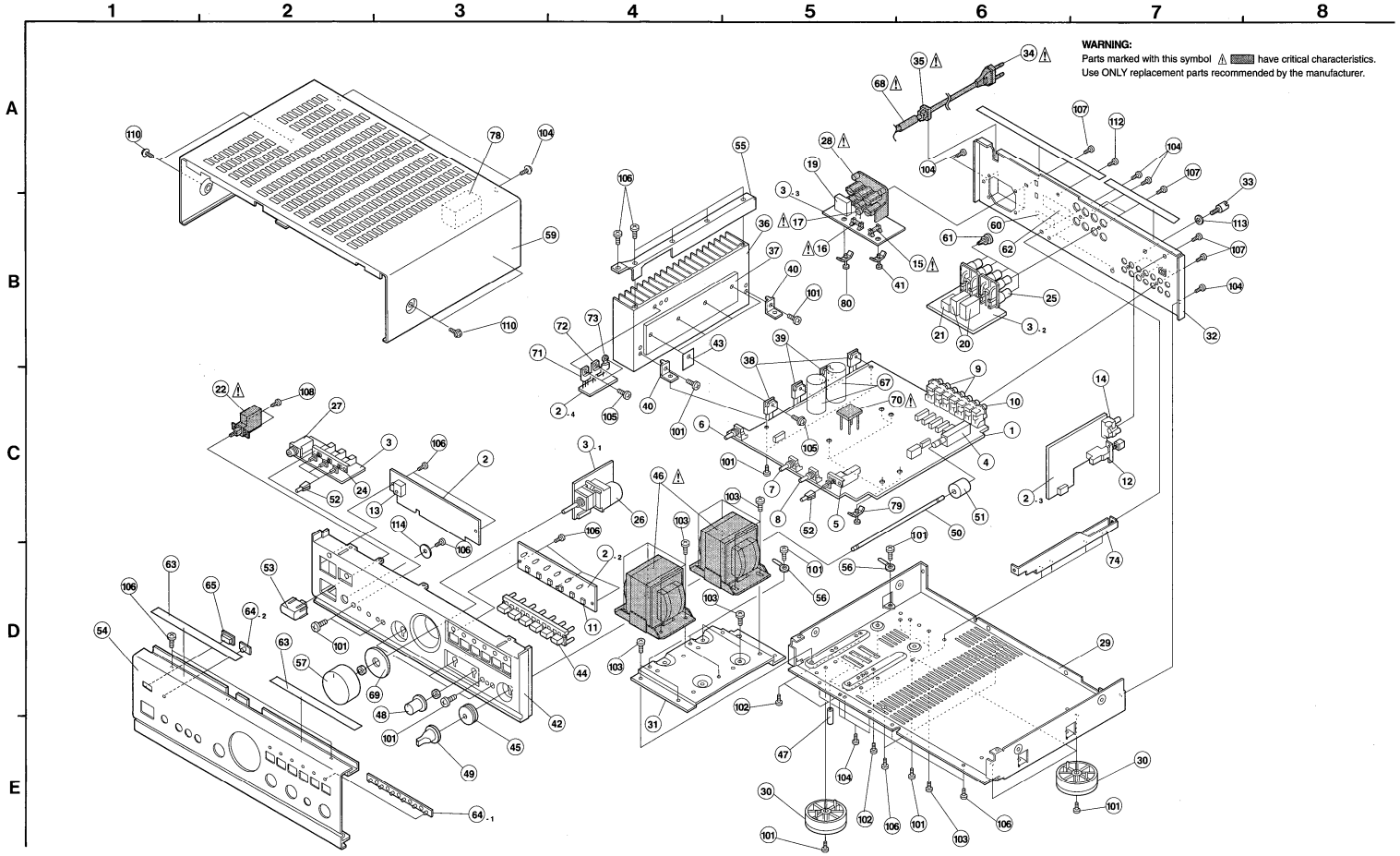
1U-2939A  $\mu$ -COM UNIT ASS'Y (PMA-725R)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
C705,706	254 8205 008	Electrolytic 10000 $\mu$ F/51V	CE68W==103MC(DL)	
C707	256 1042 903	Metalized 0.1 $\mu$ F/250V	CF93A2E104K	
C708	254 4263 916	Electrolytic 0.22 $\mu$ F/100V	CE04W2AR22M	
<b>OTHERS PARTS GROUP</b>				
		(P.W.board)		(1)
SW101	212 0338 005	Rotary switch	Rec out sel.	1
SW202	212 1161 004	1P push switch	Surce 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
<b>SEMICONDUCTORS GROUP</b>				
IC105	499 0150 008	IC SBX1610-52	Remote sensor	
IC702	263 0793 002	IC NJM7906FA(S)	Regulator +6V	
IC801	262 1579 303	IC HD404304A13P	$\mu$ -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 2SD2385(EF)		
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 2SC369(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 MTZ16A	16 V	
LD801	393 9559 904	LED SLR-56DUTB7	Orange	
LD802-807	393 9515 906	LED SLR-56VR70	Red	
PH701	279 0034 041	Posistor PTH9M04BD222TSF333		
<b>RESISTORS GROUP</b>				
R832	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNGS	
R836,837	241 2377 905	Carbon film 68ohm 1/4W	RD14B2E68JUNBS	
<b>CAPACITORS GROUP</b>				
C709	254 4263 916	Electrolytic 0.22 $\mu$ F/100V	CE04W2AR22M	
C711	253 1181 904	Ceramic cap. 0.01 $\mu$ F/50V	CK45F1H103Z	
C712,713	254 4260 980	Electrolytic 10 $\mu$ F/50V	CE04W1H100M	
C714,715	253 1181 904	Ceramic cap. 0.01 $\mu$ F/50V	CK45F1H103Z	
C801	254 4213 937	Electrolytic 100 $\mu$ F/6.3V	CE04WUJ010M(SRA)	
C802	253 1181 917	Ceramic cap. 0.022 $\mu$ F/50V	CK45F1H223Z	
C803	254 4213 937	Electrolytic 100 $\mu$ F/6.3V	CE04WUJ010M(SRA)	
C805	254 4213 937	Electrolytic 100 $\mu$ F/6.3V	CE04WUJ010M(SRA)	
C806	254 6190 906	Electrolytic 330 $\mu$ F/6.3V	CE04WUJ331M(SRA)	
C807	259 0007 003	Back up cap. 8200 $\mu$ F/5.5V	SB CAP==822=	
C808	253 1181 917	Ceramic cap. 0.022 $\mu$ 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 $\mu$ F/50V	CE04W1H4R7M(SRA)	
C810	254 4196 944	Electrolytic 1 $\mu$ F/50V	CE04W1H010M(SRA)	
C811	254 4196 928	Electrolytic 0.33 $\mu$ F/50V	CE04W1HR33M(SRA)	
C812	256 1034 982	Metalized 0.12 $\mu$ F/50V	CF93A1H124J	
C901	254 4260 948	Electrolytic 1 $\mu$ F/50V	CE04W1H010M	
C902	259 1181 917	Ceramic cap. 0.022 $\mu$ F/60V	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 $\mu$ F/50V	CE04W1H010M	
C913,914	255 1251 937	Film cap. 3300pF/50V	C092M1H3332J(MRZ)	
C915,916	254 4252 930	Electrolytic 100 $\mu$ F/10V	CE04W1A101M	
C917,918	256 1034 953	Metalized 0.068 $\mu$ F/50V	CF93A1H683J	
C919,920	254 4254 909	Electrolytic 10 $\mu$ F/16V	CE04W1C100M	
C921,922	255 4223 959	Film cap. 0.018 $\mu$ F/50V	C093M1H183J(MRZ)	
C923,924	255 1264 911	Film cap. 1200pF/50V	C093M1H1222J(B)	
C925,926	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K	
C935	254 4252 930	Electrolytic 100 $\mu$ F/10V	CE04W1A101M	
C936,937	254 4256 936	Electrolytic 47 $\mu$ F/25V	CE04W1E470M	
<b>OTHERS PARTS GROUP</b>				
		(P.W.board)		(1)
L901,902	235 9003 002	Inductor (150 $\mu$ 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	MWMC	1
	204 8413 000	2P pin jack(C-GND)	PHONO	1
	415 0309 013	P.V.C.tube L=10	for PH701	2
<b>SEMICONDUCTORS GROUP</b>				
TR617,618	273 0235 923	Transistor 2SC1841(EF)		
D001	276 0616 907	Diode 1SS252	Europe model only	
D441-444	276 0616 907	Diode 1SS252		
D610-612	276 0616 907	Diode 1SS252		
<b>RESISTORS GROUP(Not included carbon film <math>\pm</math>5%,1/4W)</b>				
VR201	211 0869 003	Variable resistor 30kohm	Main volume	
R341,342	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3AR22JNBS(S)	
R501,502	244 2043 937	Metal oxide 10ohm 1W	RS14B3A10JNBS(S)	
R505-508	244 2050 933	Metal oxide 180ohm 1W	RS14B3A181JNBS(S)	
R652	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB	
R653	244 2043 940	Metal oxide 2.2kohm 1W	RS14B3A222JNBS(S)	
R654	244 2052 915	Metal oxide 1.8kohm 1W	RS14B3A182JNBS(S)	
R655	244 2043 940	Metal oxide 2.2kohm 1W	RS14B3A222JNBS(S)	
R656	244 2052 915	Metal oxide 1.8kohm 1W	RS14B3A182JNBS(S)	
R660	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB	
<b>CAPACITORS GROUP</b>				
C002	253 8003 713	Ceramic cap. 4700pF/400V AC	CK45E23AC472MC	
C203,204	254 4254 909	Electrolytic 10 $\mu$ F/16V	CE04W1C100M	
C205	255 1265 936	Film cap. 0.01 $\mu$ F/50V	C093M1H103J(B)	
C501,502	256 1034 979	Metalized 0.1 $\mu$ F/50V	CF93A1H104J	
<b>OTHERS PARTS GROUP</b>				
		(P.W.board)		(1)
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
R001	206 1015 061	Fuse(2A)		1
R002	206 1015 029	Fuse(1A T)	Europe model only	1
	415 0269 000	Capacitor cover	for C002	1
RL001	214 0142 004	Relay(TV-5)	Europe model only	1
RL601,602	214 0129 001	Relay(DH2TJ)	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
	203 3850 002	3P AC outlet	ACL-1	1
	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	482 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 0346 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 005	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)		1
14	204 8413 000	2P pin jack(C-GND)	for PHONO	1	61	477 0096 007	Push rivet		8
15	206 1016 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 0290 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(DH2LU)	RL601,602	2	65	143 9181 007	::Remocon window		1
21	214 0178 007	Relay(MR62-12USRY)	RL101-106,603	7	66	254 4252 082	Electrolytic cap. 2200µF10V	C309,310	2
22	212 1030 008	Power switch(TV-S)	SW001	1	67	254 6206 007	Electrolytic cap. 12000µF63V	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	6P speaker terminal	ON-OFF	1	70	412 4135 019	Volume plate	Gold model	1
26	211 0869 003	Variable resistor 30kohm	VR201 Main volume	1	71	272 0129 007	Diode 404942	D-702 Bridge	1
27	204 8503 004	Head phone jack	JAS01	1	72	263 0793 002	Transistor 2SB1566(E/F)	TR702	1
28	203 3650 002	3P AC outlet	ACL-1	1	73	279 0034 041	IC NUM7806FA(S)	IC702 Regulator +6V	1
29	411 1267 712	Main chassis		1	74	412 4156 001	PTH9M04BD222TS2F333	PH701	1
30	104 0282 007	*Foot Assy		4	75	—	Trans frame		1
31	441 1786 016	Trans bracket		1	76	—	—		—
32	105 1203 004	Rear panel		1	77	146 1651 000	Side spacer		2
33	205 0071 016	Terminal Assy		1	78	461 0940 006	Rubber form		1
34	206 2063 003	AC cord with plug		1	79	449 0138 025	Card spacer (L=31)		5
35	445 0056 008	Card bush		1	80	449 0138 012	Card spacer (L=25)		1
36	417 0503 132	Power radiator		1	81	—	—		—
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	*F.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 000	Power transformer		2	—	—	—		—

**PACKING & ACCESSORIES**

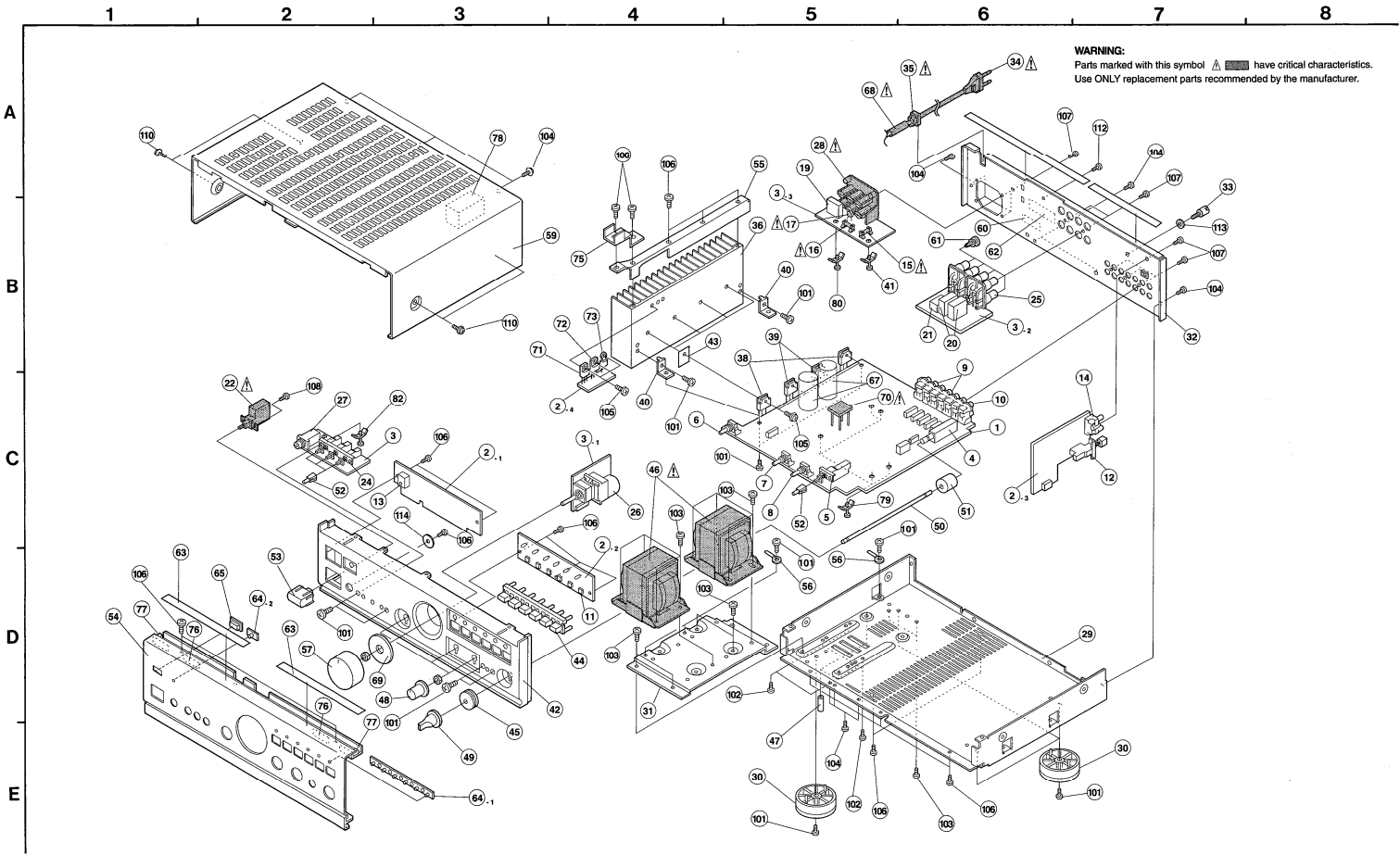
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
<b>SCREWS &amp; WASHERS</b>					151-1	GEN 380	Envelope Sub. Assy		1s
101	473 7002 018	Screw 3x8	CBTS(S)-Z	17	151-1	505 8006 019	Envelope		(1)
102	473 7004 016	Screw 4x6	CBTS(S)-Z	8	151-2	511 2899 007	Operating instructions		(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 6092 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 0293 005	3P swelling screw	Black model	4	156	501 1927 009	Carton case		1
111	477 0293 018	3P swelling screw	Gold model	4	157	513 2446 003	China label(E)		1
112	473 7002 034	Screw 3x6	CBTS(S)-B	1	158	513 2447 002	China label(F)		1
113	477 0018 001	Washer	P-87	1	159	513 9111 001	Color label (Gold)	Gold model only	2
114	475 1175 002	Washer		1	—	—	—		—
115	—	—	—	1	—	—	—		—

**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.

**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 Assy	Europe model	1s	40	412 4000 005	:P.W.B bracket (A)		2
1	1U-2938 B	Main unit Assy	U.K. model	1s	41	—	—		—
2	1U-2939 A	M-com unit Assy		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 Assy	Europe model	1s	45	124 0002 057	Felt sheet		1
3-1	1U-2940 B	Volume unit Assy	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		(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	VR202 Balance	1	52	113 1745 110	:Push button(Round)	Gold model	4
8	211 0834 012	Variable resistor 10kohm	VR203 Bass	1	53	113 1738 101	:Power button	Black model	1
9	204 8296 008	4P pin jack(S-GND)	VR203 Treble	1	53	113 1738 114	:Power button	Gold model	1
10	204 8278 009	8P pin jack(S-GND)	for TAPE	2	54	144 2507 306	Front panel	Black model	1
11	212 4789 001	Tact switch	for INPUTS	1	54	144 2507 319	Front panel	Gold model	1
12	212 1099 008	1P push switch	SW801 -806	6	55	412 4128 000	Radiator bracket		1
13	489 0152 008	Remote sensor SBX1610-52	SW901 MMMC	1	56	445 0048 003	Cord holder L-76		1
14	204 8413 000	2P pin jack(C-GND)	IC105	1	57	112 0744 009	Volume knob Assy	Black model	1
15	206 1015 061	Fuser (2A)	for PHONO	1	57	112 0744 012	Volume knob Assy	Gold model	1
16	206 1015 029	Fuser (1A T)	F001	1	58	445 8004 007	Wire clamp		18
17	415 0289 000	Capacitor cover	F002	1	59	102 0543 119	:Top cover	Black model	1
18	—	—	Europe model only	1	59	102 0543 122	:Top cover	Gold model	1
19	214 0142 004	Relay(TV-5)	for C002	1	60	513 2443 005	Label (China)	Puton rear panel	1
20	214 0129 001	Relay(DH2TLU)		1	61	477 0086 007	Push rivet		8
21	214 0178 007	Relay(MF62-12USRY)		1	62	513 2433 003	Serial No. sheet		1
22	212 1030 009	Power switch(TV-5)	RL001	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	8P push switch	RL101-106,803	2	64-2	—	:Lens		(1)
25	205 0484 001	8P speaker terminal for speaker	SW001	1	65	143 9181 007	:Remocoon window		1
26	211 0863 003	Variable resistor 30kohm		1	66	254 4252 082	Electrolytic cap. 2200uF/10V	C308,310	2
27	204 8503 004	Head phone jack	ON-OFF	1	67	254 6205 008	Electrolytic cap. 10000uF/51V	C705,708	2
28	203 3959 002	8P AC outlet	VR201 Main volume	1	68	415 0295 017	P.V.C. Tube	for G-lead	1
29	411 1267 712	Main chassis	JAS01	1	69	412 4135 006	Volume plate	Black model	1
30	104 0282 007	:Foot Assy	AQL 1	1	70	276 0336 007	Diode 54VB20F	D702 Bridge	1
31	441 1786 003	Trans bracket	Europe model only	1	71	272 0129 007	Transistor 2SB1566 (E/F)	TR702	1
32	105 1198 009	Rear panel		1	72	263 0793 002	IC NJM7806FA (S)	IC702 Regulator+6V	1
33	105 1198 012	Rear panel	U.K. model	1	73	279 0034 041	PTH9M04BD222T32F333	PH701	1
34	205 0071 016	Terminal Assy		1	74	—	—		1
35	206 2063 009	AC cord with plug		1	75	412 4159 008	:Support bracket		1
36	206 2131 006	AC cord with plug	Europe model	1	76	461 0942 004	Spacer (T=1)		2
37	445 0056 008	Card bush	U.K. model	1	77	146 1648 000	Side spacer		2
38	274 0173 004	Transistor 2SD2380(O/PY)		1	78	461 0941 005	:Rubber form		1
39	272 0137 002	Transistor 2SB1560(O/PY)		1	79	449 0198 012	:Card spacer (L=25)		5
					80	449 0138 012	:Card spacer (L=25)		1
					81	449 0138 012	:Card spacer (L=25)		1
					82	449 0138 025	:Card spacer (L=31)		1
					83	513 2001 008	Insulate mark sheet		1
					84	202 0015 101	Fuse holder	U.K. model only	1

**PACKING & ACCESSORIES**

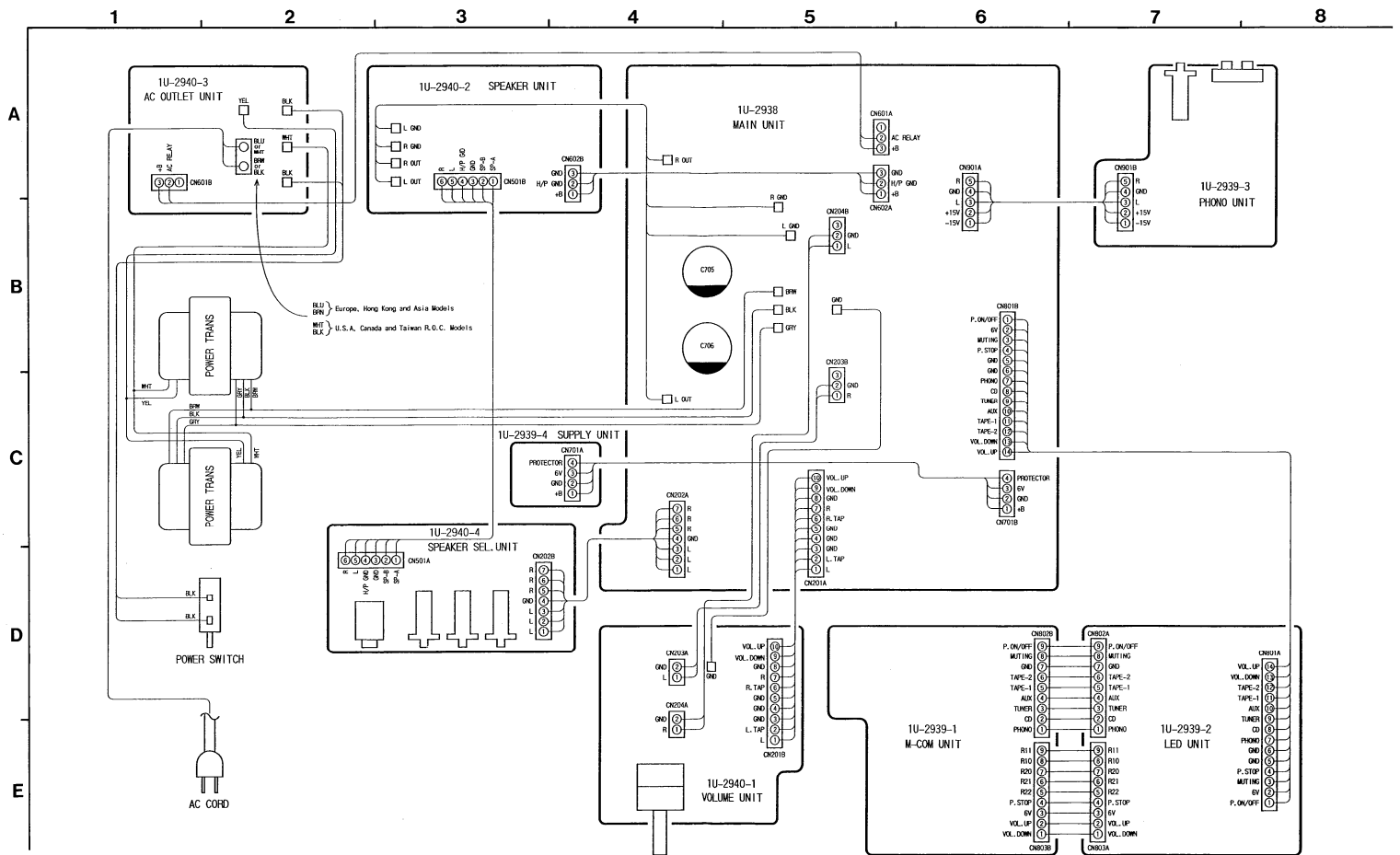
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
85	415 0785 006	Insulating plate	U.K. model only	1	151-1	GEN 3580	Envelope Sub. Assy		1s
86	513 1390 008	Fuse label	U.K. model only	1	151-2	505 8006 019	Envelope		(1)
87	203 0192 003	Wire connector	U.K. model only	2	151-3	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)
<b>SCREWS &amp; WASHERS</b>							Batteries	R6P/AA/SUM-3	(2)
101	473 7002 018	Screw 3x8	CBTS(S)-Z	15	151-5	515 0671 326	DENON service network		(1)
102	473 7004 016	Screw 4x6	CBTS(S)-Z	8	152	505 8036 010	Laminated envelope		1
103	473 7004 029	Screw 4x10	CBTS(S)-Z	14	153	503 2198 002	Cushion		2
104	473 7015 018	Screw 3x8	CBTS(S)-B	10	154	502 0993 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 1822 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-87	1					
114	475 1175 002	:Washer		1					
115	471 3304 031	Screw 3x8	CB8 U.K. model only	1					
116	475 6006 008	Nut M3	U.K. model only	1					

**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.

**WARNING:**  
Parts marked with this symbol  have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

WIRING DIAGRAM



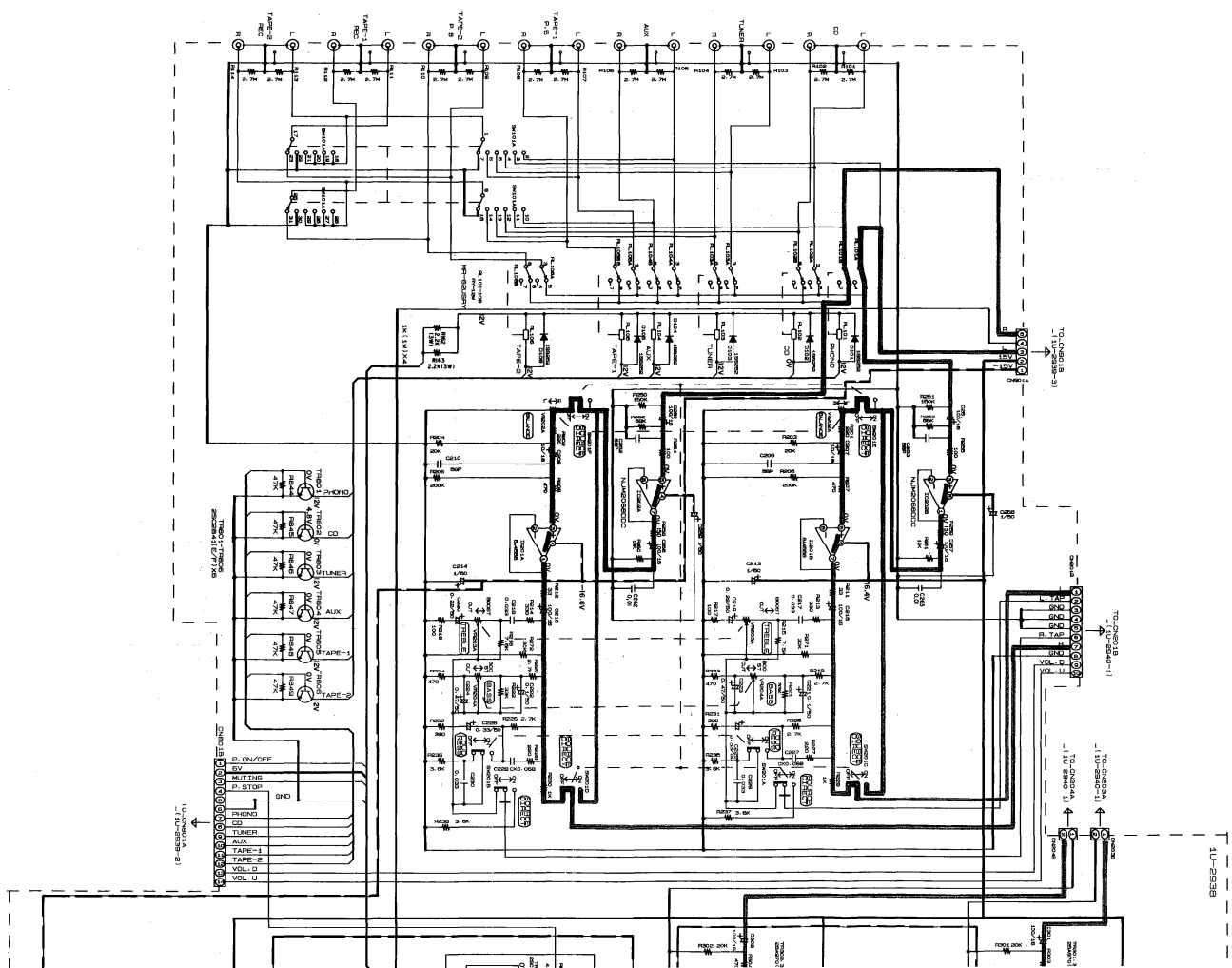


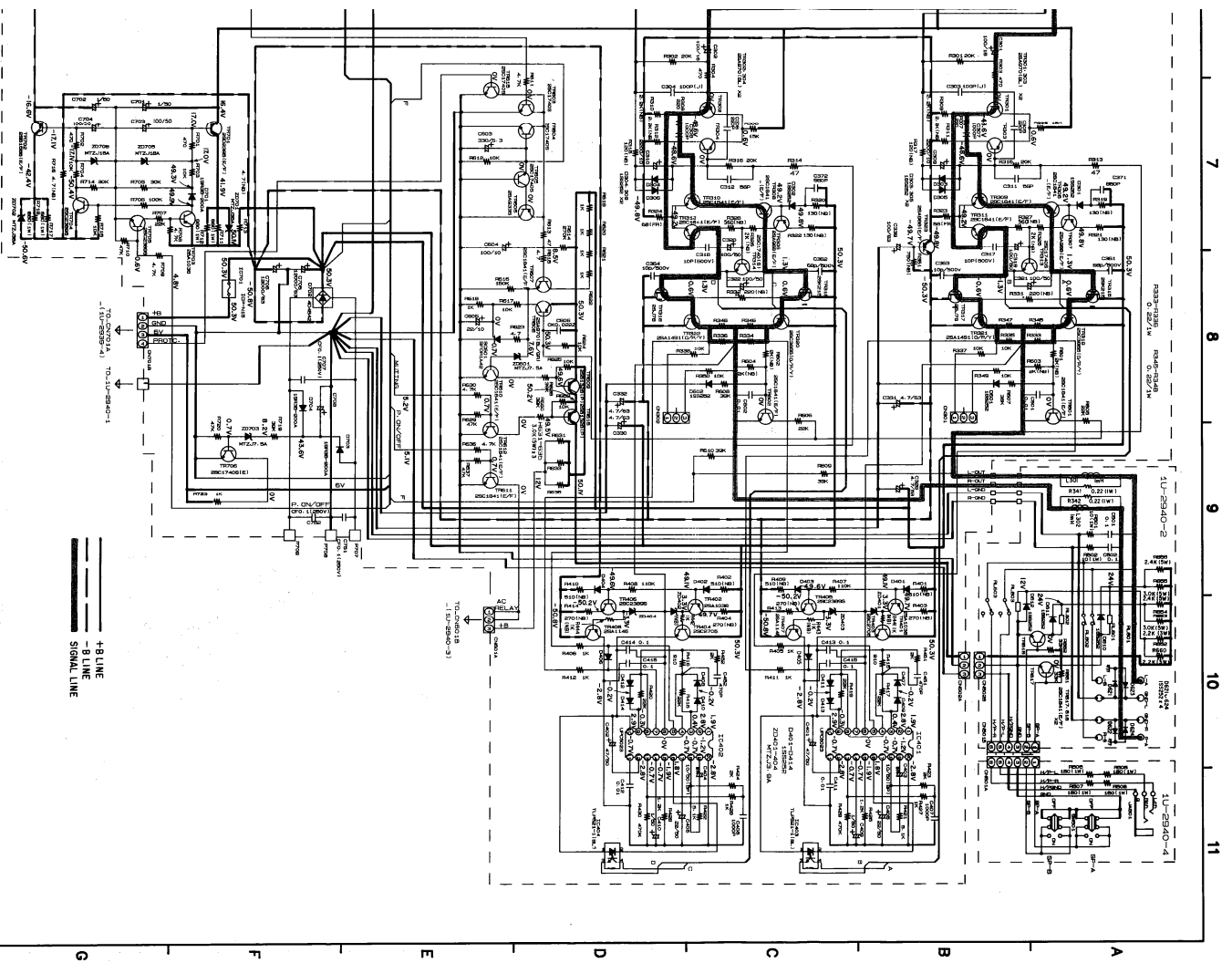










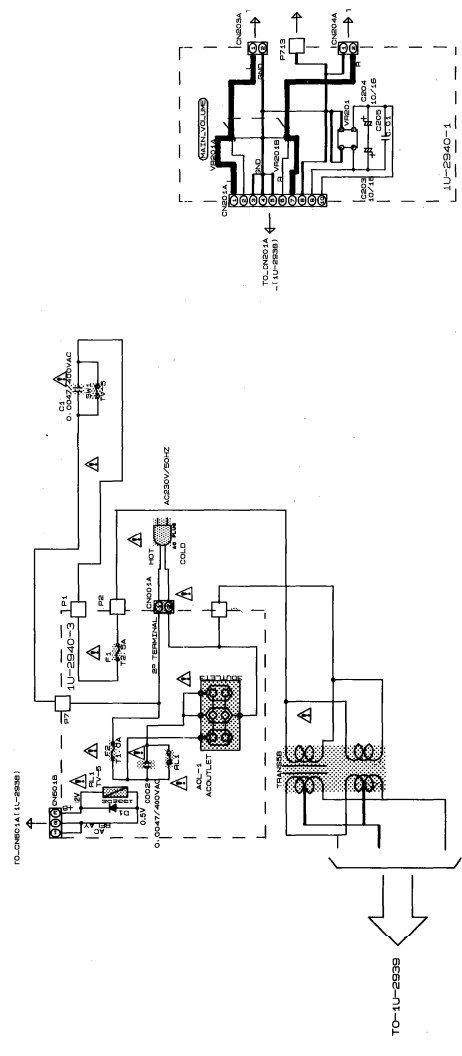
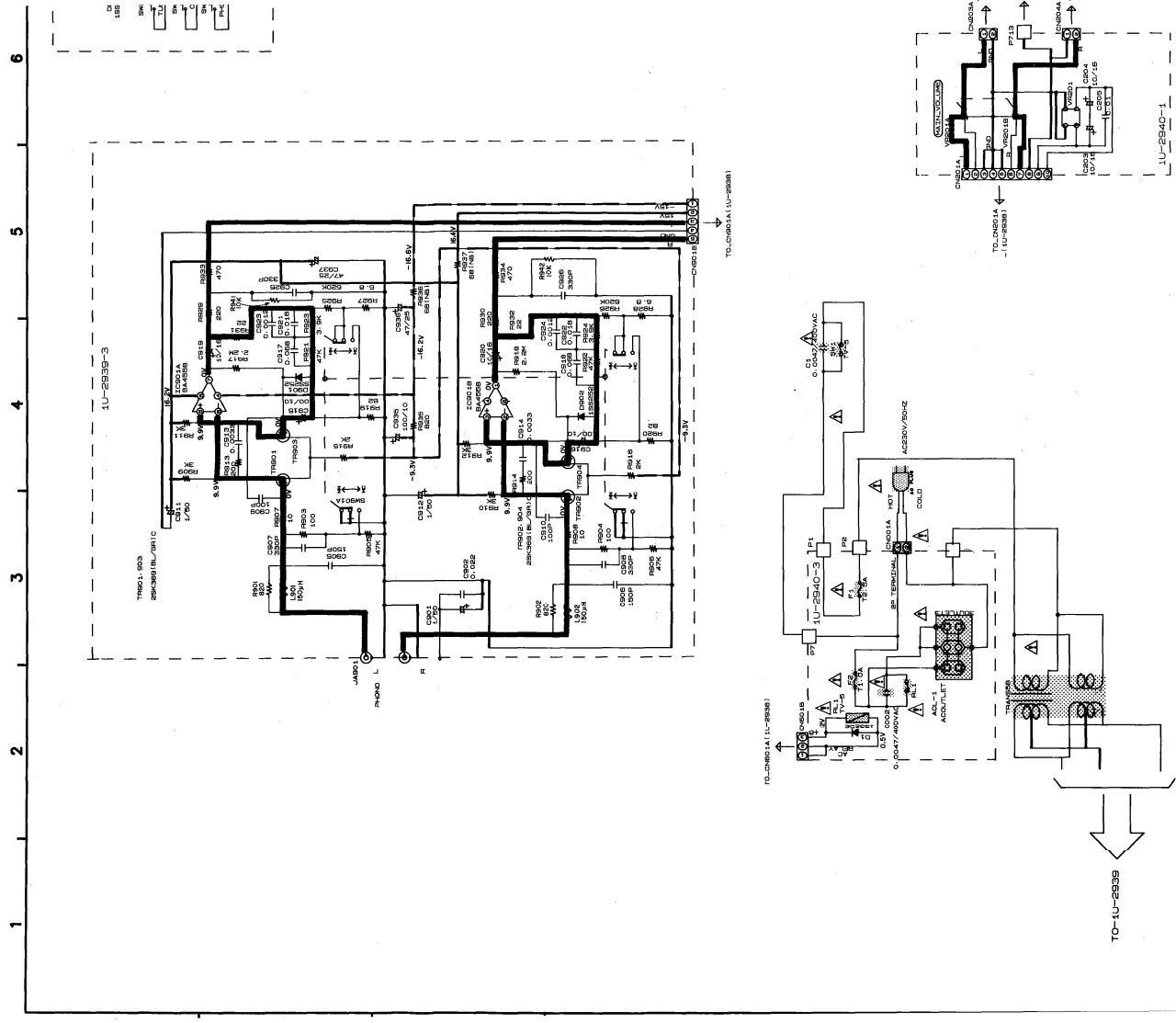


**NOTES**  
 ALL RESISTANCE VALUES IN OHM, K=1,000 OHM, M=1,000,000 OHM  
 ALL CAPACITANCE VALUES IN MICRO FARAD. P=ALUMINOUM POLYMER  
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT  
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR  
 NOTICE

**WARNING:**  
 Parts marked with this symbol  have critical characteristics. Do not replace parts recommended by the manufacturer. Before returning the unit to the customer, make sure you make either (1) a complete check of the unit or (2) a test to determine the cause of the power cord is less than 240 volts, the unit is defective.  
**WARNING:** Turn the unit to the customer until the problem is located and corrected.



**SCHEMATIC DIAGRAM (2/4) : PMA-925R**



**WARNING:**  
Parts marked with this symbol  $\Delta$  have critical tolerances. Use ONLY replacement parts recommended by the manufacturer.  
**CAUTION:**  
Before returning the unit to the customer, make sure you have checked the chassis resistance. If the leakage current exceeds 0.5 millamps, or if the resistance from chassis to other parts is less than 100,000 ohms, 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.  
ALL CAPACITANCE VALUES IN MICRO FARAD.  
P=PICTOGRAPH PARAD.  
RESISTANCE VALUES ARE MEASURED AT NO SIGNAL INPUT CONDITION.  
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.