



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for DENON PMA-510AE. You'll find the answers to all your questions on the DENON PMA-510AE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual DENON PMA-510AE**  
**User guide DENON PMA-510AE**  
**Operating instructions DENON PMA-510AE**  
**Instructions for use DENON PMA-510AE**  
**Instruction manual DENON PMA-510AE**

## DENON

INTEGRATED AMPLIFIER

### PMA-510AE

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Owner's Manual

Bedienungsanleitung

Manuel de l'Utilisateur

Manuale delle istruzioni

Manual del usuario

Gebruiksaanwijzing

Bruksanvisning



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**Manual abstract:**

*REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. ·DECLARATION DE CONFORMITE Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3.*

*D'après les dispositions de la Directive 2006/95/EC et 2004/108/EC. Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose. Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein. PRECAUTION: ·DICHIARAZIONE DI CONFORMITÀ Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3. @ @ QUESTO*

**PRODOTTO E' CONFORME AL D.M.**

*28/08/95 N. @ @ @ @ @ La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente. PRECAUCIÓN: ·EENVORMIGHEIDSVERKLARING Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen: EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. Volgens de bepalingen van de Richtlijnen 2006/95/EC en 2004/108/EC. Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.*

*El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso. WAARSCHUWING: ·ÖVERENSSTÄMMELSESINTYG Härmad intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder: EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3. Enligt stadgarna i direktiv 2006/95/EC och 2004/108/EC. DENON EUROPE Division of D&M Germany GmbH An der Landwehr 19, Nettetal, D-41334 Germany Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken. De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.*

*FÖRSIKTIHETSMÅTT: Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet. Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren. I SVENSKA NEDERLANDS ESPAÑOL ITALIANO FRANCAIS DEUTSCH ENGLISH n NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA ANGÅENDE ANVÄNDNINGEN CAUTION: . . . . . The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. No naked flame sources, such as lighted candles, should be placed on the unit. Observe and follow local regulations regarding battery disposal. Do not expose the unit to dripping or splashing fluids. Do not place objects filled with liquids, such as vases, on the unit. . . . . Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. Vermeiden Sie hohe Temperaturen.*

*Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. Evitate di esporre l'unità a temperature elevate. Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. Undvik höga temperaturer.*

*Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. . . . . Do not let foreign objects into the unit. Keep the unit free from moisture, water, and dust. ·Lassen Sie keine fremden Gegenstände in das Gerät kommen. Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub · Ne pas laisser des objets étrangers dans l'appareil.*

*fern. · Non inserite corpi estranei all'interno dell'unità. Protéger l'appareil contre l'humidité, l'eau et la poussière. · No deje objetos extraños dentro del equipo. Tenete l'unità lontana dall'umidità, dall'acqua e dalla · Laat geen vreemde voorwerpen in dit apparaat vallen. polvere. · Se till att främmande föremål inte tränger in i apparaten. Mantenga el equipo libre de humedad, agua y polvo. Laat geen vochtigheid, water of stof in het apparaat binnendringen. Utsätt inte apparaten för fukt, vatten och damm. · Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. · Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. · Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen.*

*· Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. · Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden. · La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc.*



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· *Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil. · Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. · L'appareil ne doit pas être exposé à l'eau ou à l'humidité. · Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. ACHTUNG: ATTENTION: · Unplug the power cord when not using the unit for long periods of time. · Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. · Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. · Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. · Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. · Neem altijd het netsnoer uit het stopcontact wanneer het apparaat gedurende een lange periode niet wordt gebruikt. · Koppla loss nätkabeln om apparaten inte kommer att användas i lång tid. · Do not let insecticides, benzene, and thinner come in contact with the unit. @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ · No debe colocarse sobre el aparato ninguna fuente inflamable sin protección, como velas encendidas. · A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. · No exponer el aparato al goteo o salpicaduras cuando se utilice. · No colocar sobre el aparato objetos llenos de líquido, como jarros. ATTENZIONE: PRECAUCIÓN: · Handle the power cord carefully. Hold the plug when unplugging the cord. · Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. · Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. · Maneggiare il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. · Maneje el cordón de energía con cuidado; es, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles. Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE. NOTA RELATIVA AL RICICLAGGIO: I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili.*

· *Smaltire i materiali conformemente alle normative locali sul riciclaggio. Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore. Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici. Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie. ACERCA DEL RECICLAJE: Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad. Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales. Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos. Este producto junto con los accesorios empaquetados es el prod..... Red · When the power is off..... Off · q w e r tPower cord y SIGNAL GND (ground) terminal Connect the ground wire from your turntable here. wPower switch QLOUDNESS switch When listening with the volume turned low, set this to "hON" to amplify the bass and treble sound that is hard to hear when the volume is low and achieve a more natural sound. qInput terminals (INPUTS) Connect your source equipment here. (hON/STANDBY jOFF ) When set to "hON/STANDBY", the power turns on, and when set to "jOFF", the power turns off. wRecording input/output terminals (RECORDER-1 and RECORDER-2) Connect your recording equipment here. (SPEAKER SYSTEMS) Connect your speakers here. Use this as the power outlet for other audio devices. Check equipment power requirement ratings before use (see the ratings as marked on the rear panel). If in doubt consult with your dealer or DENON distributor. eHeadphones jack (PHONES) rBASS control knob tTREBLE control knob yBALANCE control knob uVOLUME control knob iINPUT SELECTOR knob Use this to select the source that you wish to listen to. Q2SPEAKERS A/B switches · When A (or B) is set to "hON", sound is produced from the speakers connected to the A (or B) speaker output terminals. · When both A and B are set to "hON", sound is produced from the speakers connected to both the A and B speaker output terminals. · When both A and B are set to "jOFF", no sound is produced from the speakers. Use this when listening over headphones. eSpeaker system terminals NOTE This terminal is not a safety ground. rAC OUTLET oInput indicator The selected input is shown with an orange indicator. Q3Remote control sensor ENGLISH Remote Control Unit Amplifier operating buttons POWER button This operates the main unit's power. Input source selector buttons These switch the input source. MUTING button Press this to mute the sound. The power indicator on the main unit blinks red. Press again to produce sound.*

· @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ · Press this button to select the BROWSE display mode. @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ · The speakers may be damaged if the volume is set too high when playing SA sources. For instructions on setting the player, refer to the operating instructions included with the player. Connections Operation NOTE · Do not plug in the power cord until all connections have been completed. · When making connections, also refer to the operating instructions of the other components. · Be sure to connect the left and right channels properly (left with left, right with right). · Do not bundle power cords together with connection cables. Doing so can result in humming or noise. · Do not turn up the volume when no turntable is connected to the PHONO input terminals. Doing so will cause humming or noise. Troubleshooting Connecting the Speakers Connecting the Speaker Cables n Speaker impedance Use speakers with impedances within the ranges shown below according to their usage conditions.



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Speakers used A or B A and B Impedance 4 ~ 16 /ohms 8 ~ 16 /ohms Carefully check the left (L) and right (R) channels and + (red) and (black) polarities on the speakers being connected to the PMA-510AE, and be sure to interconnect the channels and polarities correctly. Specifications Preparations Cables Used for Connections Select the cables according to the equipment being connected. 1 2 3 4 Peel off about 10 mm of sheathing from Audio cables Analog connections (stereo) (White) (Red) L R L R the tip of the speaker cable, then either twist the core wire tightly or terminate it. the speaker terminal counterclockwise to loosen it.

the hilt into the speaker terminal. Protection circuit The protection circuit will be activated in the following cases: · When the speaker cable's core wires are touching the rear panel or screws or when the speaker cable's + and - sides are touching · When the surrounding temperature is extremely high · When the internal temperature rises due to extended use with a high output If this happens, unplug the power cord, then check the connections of the speaker cables and input cables. If the set's temperature is extremely high, wait for it to cool off and improve surrounding ventilation. After doing this, plug the power cord back in. If the protection circuit is activated though there are no problems in ventilation around the set or in connections, the set could be damaged.

Turn off the power, then contact a DENON servicing and inquiry outlet. Turn Insert the speaker cable's core wire to Stereo pin-plug cable Speaker connections Turn the speaker terminal clockwise to tighten it. Speaker cables NOTE · Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other (v "Protection circuit"). · Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock. ENGLISH Speaker Connections Speakers A Speakers B Connecting Players · Only Turntables fitted with a MM (Moving Magnet) cartridge can be used with this unit. @@@@ @@@@ · Set both the SPEAKER A/B switches to "hON". Speaker (L) wq wq LOW HIGH L R DVD player L R L R Speaker (R) wq wq LOW HIGH ENGLISH Connecting

Recorders CD recorder / Tape deck 1 CD recorder / Tape deck 2 Connecting the Power Cord Wait until all connections have been completed before connecting the power cord. Getting Started Power cord L R L R L R L R To household power outlet (AC 230 V, 50 Hz) Connections Operation L R L R L R L R Connecting to the AC OUTLET SWITCHED (Total capacity: 100 W (0.

43 A): The power supply to the outlet turns ON and OFF with the main unit's POWER switch. Make sure the total power consumption of the connected devices does not exceed 100 W (0.43 A). Troubleshooting NOTE · Only use the AC OUTLET for audio equipment. Never use it for hair driers, TVs or other electrical appliances. · Insert the plugs securely. Incomplete connections will result in the generation of noise. Specifications ENGLISH Getting Started Connections Operation Troubleshooting Specifications Operation Symbols used to indicate buttons in this manual Button located on both the main unit and the remote control unit Button only on the main unit Button only on the remote control unit BUTTON <BUTTON> [BUTTON] Preparations Prior to Playing Starting Recording <LOUDNESS> <SOURCE DIRECT> VOLUME <SPEAKERS> 1 2 3 4 5 1 2 3 4 Set the volume to the minimum by using VOLUME. Set Set "OFF". <SOURCE DIRECT> and <LOUDNESS> to 1 2 3 1 Turn recorded.

PHONO <INPUT SELECTOR> to select the source to be [Selectable source] CD TUNER LINE center position. <BASS>, <TREBLE> and <BALANCE> to the Set the recorder to the record mode. Start playing the source to be recorded. Press <SPEAKERS> A or B depending on the terminals to which speakers are connected. Turn on the power by pressing POWER.

The power indicator blinks red for several seconds, then lights green. POWER <BASS> <BALANCE> INPUT SELECTOR <TREBLE> POWER Copying Recorders Turn Starting Playback Use 1" (or "RECORDER-2"). [Selectable source] RECORDER-2 RECORDER-1 <INPUT SELECTOR> and select "RECORDER-1" played. INPUT SELECTOR to select the source to be The input indicator for the selected source lights. [Selectable source] INPUT SELECTOR RECORDER-2 RECORDER-1 PHONO LINE Play the selected source.

Adjust the volume by using VOLUME. @@@@ @@@@ Are the connections correct? 2. Is the set being operated as described in the owner's manual? 3. Are the other components operating properly? @@@@ Should the problem persist, there may be a malfunction. In this case, disconnect the power immediately and contact your store of purchase. Symptom When the power is turned on, the power indicator does not light and no sound is produced. The power indicator flashes, and no sound is produced. Cause Countermeasure · The power cord's plug is not · Make sure the unit is correctly fully plugged in. plugged in and switched on at the mains socket. Page 7 Symptom Cause For stereo sound, · The connections of the speakers the positions of or input cables are inverted.

the instruments are inverted left/ right. Humming sound is · The player's ground wire is not heard in the music connected. when playing · The cables are not fully records. connected to the PHONO terminals. · Influence from a TV or VCR near the player. Howling is · The player and speakers are too produced along close together. with the music if · The vibrations from the speakers the volume is too are being transmitted to the high when playing player through the floor. records. When playing a · The needle pressure is not record, the sound proper. is distorted.

· There is dirt on the tip of the needle. · The cartridge is defective. Countermeasure · Check the connections to be sure that left is connected to left, right to right. Page 6, 7 Connections Operation · Connect securely. · Connect securely.

6 6 Troubleshooting The power indicator lights but no sound is produced. · A short circuit has occurred, either due to contact between the speaker cable cores, or because a core has come loose from a terminal and is contacting the rear panel of the PMA510AE. · The device's internal temperature has increased because sufficient space has not been assured around the device. · The speaker cables are not fully connected. · The device you want to listen to has not been selected.



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· The volume control is set to minimum. · The input cable is not fully connected. · The speaker selector button is set to "OFF". · Unplug the power cord, then after twisting the core wires together tightly again, or effecting termination treatments etc, please reconnect once again. · Turn off the power and ensure sufficient space around the device. And turn on the power again after the body temperature has fallen sufficiently. · Connect securely. · Insure the correct input selected. · Set to an appropriate level. · Connect securely.

is 5, 6 · Try changing the positions in which the devices are installed. · Install the player and speakers as far from each other as possible. · Use cushions, etc., to absorb the speakers' vibrations. Specifications 1, 5 · Adjust to a proper needle pressure. · Check the tip of the needle. · Replace the cartridge. 5, 6 8 3, 4, 8 6, 7 3 Sound is only produced from the left or right speaker (s). · Ensure the SPEAKER A or B buttons are set to "ON" as appropriate. · The speaker cables are not fully · Connect securely.

connected. · The input cable is not fully · Connect securely. connected. · The left/right balance is off. · Adjust to a proper balance using the balance control knob.

5, 6 6, 7 3, 8 ENGLISH Getting Started Connections Operation Troubleshooting Specifications Specifications n Power amplifier section Rated Output Power: Dynamic power: High frequency distortion: Output terminals: 2-channel driving (CD SP OUT) 45 W + 45 W (8 /ohms, 20 Hz ~ 20 kHz, T.H.D. 0.07 %) 70 W + 70 W (4 /ohms, DIN, 1 kHz, T.

H.D. 0.7 %) 0.02 % (Rated output: 3 dB), 8 /ohms, 1 kHz Speaker A or B: 4 ~ 16 /ohms A + B: 8 ~ 16 /ohms Suited for headphones/stereo headphones 150 mV PHONO (MM): 2.5 mV/47 k/kohms CD, TUNER, LINE, RECORDER-1, RECORDER-2: 100 mV/47 k/kohms (SOURCE DIRECT OFF) 100 mV/16 k/kohms (SOURCE DIRECT ON) PHONO (MM): 20 Hz ~ 20 kHz ±0.5 dB PHONO (MM): 84 dB (With input terminals short-circuited, 5 mV input signal) CD, TUNER, LINE, RECORDER-1, RECORDER-2: 105 dB (input terminals short-circuited) BASS: 100 Hz ±8 dB TREBLE: 10 kHz ±8 dB 100 Hz: +6 dB, 10 kHz: +6 dB AC 230 V, 50 Hz 185 W 434 (W) x 121 (H) x 307 (D) mm 6.5 kg R03/AAA Type (two batteries) 49 (W) x 220 (H) x 21 (D) mm 120 g (including batteries) Index A Adjust the tone...

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.8 Adjust the volume .....

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8 B BALANCE .....

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..3 BASS ...

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.3 Batteries .....

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.....2 Bi-wiring Connection .....

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6 n Pre amplifier section Equalizer amplifier output: (REC OUT terminals) Input Sensitivity/Input Impedance: C Cables Used for Connections .....

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.....5 Connecting Players .....

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.....6 Connecting Recorders ..

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.....7 Connecting the Speakers .....

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.....5 Copying Recorders..

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.....8 RIAA Deviation: n Overall performance SN Ratio (A network): I INPUT SELECTOR .....

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.....8 Tone control (bass): LOUDNESS: L LOUDNESS.....

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.....3 n General Power supply: Power consumption: Maximum external dimensions: Weight: P Power cord .....

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.....7 Protection circuit .....

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.5 n Remote control unit (RC-1131) Batteries: Maximum external dimensions: Weight: S SOURCE DIRECT....

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.....3 Speaker cables ...

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.5 SPEAKERS A/B .....

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.....3 Stereo pin-plug cable .....

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.....5 z: For purposes of improvement, specifications and design are subject to change without notice.

T TREBLE .....

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3 V VOLUME .....

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