



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA DBR15/DBR12/DBR10. You'll find the answers to all your questions on the YAMAHA DBR15/DBR12/DBR10 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA DBR15/DBR12/DBR10 User guide YAMAHA DBR15/DBR12/DBR10 Operating instructions YAMAHA DBR15/DBR12/DBR10 Instructions for use YAMAHA DBR15/DBR12/DBR10 Instruction manual YAMAHA DBR15/DBR12/DBR10



ZJ41540 EN

Features

- Wide range***
Our smallest, most powerful subwoofer using a three-phase FIR filter drive, we've set record levels with high efficiency and a smooth frequency response that transcends the physical limitations of any subwoofer design. These are non-linear and CDMA made to work as a subwoofer, and a DBR10 is made to use as a floor monitor.
- DISCONTINUE (Dynamic) DISCONTINUE**
DISCONTINUE is a feature of the DBR15/DBR12/DBR10. It allows you to turn off the subwoofer when the speaker is not in use, saving power and reducing heat.
- Simple setup features**
The DBR15 has a unique sliding functionality, enabling you to select either a direct subwoofer (DBR15) or a subwoofer connected to a subwoofer (DBR12/DBR10).
- Wide input/output connections**
The DBR15/DBR12/DBR10 has a wide range of input/output connections, including RCA, XLR, and a subwoofer input for an amplifier, and RCA, XLR, and a subwoofer input for a subwoofer.
- Lightweight, high power**
A heavy-duty power supply and amplifier have been combined into a single unit, so we've achieved a lightweight, high-power design.
- Advanced protection functionality**
The DBR15/DBR12/DBR10 has a wide range of protection features, including a protection circuit to prevent overheating and a protection circuit to prevent over-current.

Included Accessories

- Remote control (DBR15)
- Subwoofer cable (DBR15)
- Specifications (English only). Includes specifications, block diagram, and dimensions.
- Owner's manual (this volume)

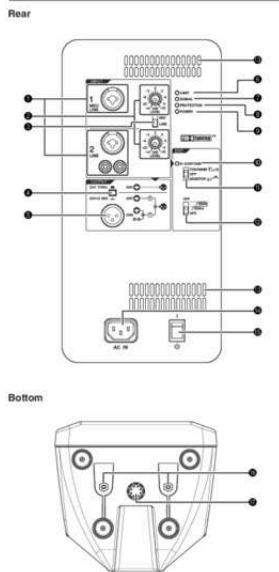
POWERED SPEAKER SYSTEM DBR SERIES

DBR15 DBR12 DBR10

Owner's Manual

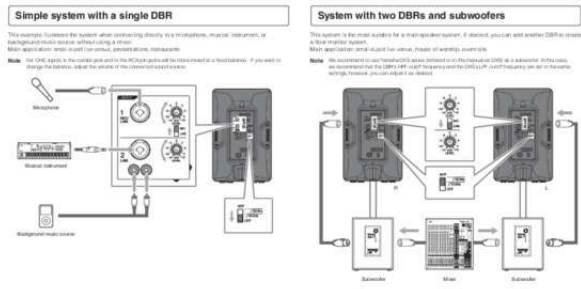
- Please read the PRECAUTIONS on the reverse side of this manual before use.
- This manual does not contain instructions for the DBR15. For more information, see the DBR15 user manual.
- The illustrations in this manual are for illustrative purposes only and do not represent actual appearance of the product.
- Necessary items and procedures are listed in this manual and the illustrations or diagrams throughout of this manual.

Controls and Connectors

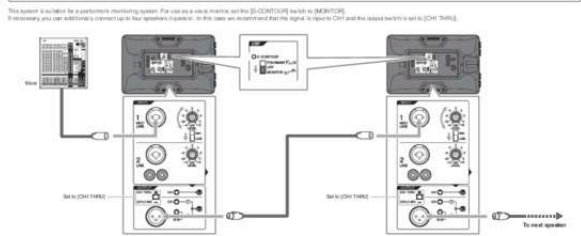


- Input Jacks (L/R) and CD/CD**
These are standard stereo jacks that support both L/R and mono signals. They can be used to connect a CD player, CD player, or CD player.
- Subwoofer Input**
This is a standard stereo input for a subwoofer. It can be used to connect a subwoofer to the speaker system.
- Subwoofer Output**
This is a standard stereo output for a subwoofer. It can be used to connect a subwoofer to the speaker system.
- Power Switch**
This is a standard power switch that can be used to turn the speaker system on or off.
- Volume Knob**
This is a standard volume knob that can be used to adjust the volume of the speaker system.
- DISCONTINUE Switch**
This is a standard switch that can be used to turn the DISCONTINUE feature on or off.
- Protection Circuit**
This is a standard protection circuit that can be used to protect the speaker system from overheating and over-current.
- Lightweight, High Power**
This is a standard feature that allows the speaker system to deliver high power in a lightweight design.
- Advanced Protection Functionality**
This is a standard feature that allows the speaker system to provide advanced protection against overheating and over-current.

Setup Examples



Floor monitor system



Troubleshooting

Symptom	Possible causes	Possible solutions
Power doesn't turn on	The power cord is not connected properly. The protection system has been activated, shutting down the power supply.	Connect the power cord in the way to fit the 3-prong in place. Turn off the power, wait and the speaker power down, and then turn on again.
No sound	The volume is not adjusted properly. The protection circuit has been activated, shutting the speaker.	Check the volume of the way to adjust it to the proper level. Wait and the speaker power down, if it won't work automatically, check the power, and then turn on again.
Sound is interrupted suddenly	A malfunction is detected inside the speaker. Sound is interrupted by the subwoofer.	Turn the speaker away from the area where the microphone pickup stands. Check the volume of input device and raise the microphone gain slowly to the sound source. Turn the DISCONTINUE switch on (DISCONTINUE) when it comes out of the speaker.
Sound becomes distorted	The speaker is overloaded. The speaker is over-current.	Lower the volume of input device and raise the microphone gain slowly to the sound source. Turn the DISCONTINUE switch on (DISCONTINUE) when it comes out of the speaker.
No sound from one of the speakers and/or subwoofers	The speaker is overloaded. The speaker is over-current.	Lower the volume of input device and raise the microphone gain slowly to the sound source. Turn the DISCONTINUE switch on (DISCONTINUE) when it comes out of the speaker.
Sound is distorted	The speaker is overloaded. The speaker is over-current.	Lower the volume of input device and raise the microphone gain slowly to the sound source. Turn the DISCONTINUE switch on (DISCONTINUE) when it comes out of the speaker.
No sound from one of the speakers and/or subwoofers	The speaker is overloaded. The speaker is over-current.	Lower the volume of input device and raise the microphone gain slowly to the sound source. Turn the DISCONTINUE switch on (DISCONTINUE) when it comes out of the speaker.



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Manual abstract:

• Light weight, high power A newly developed power supply and amplifier has enabled compact size and light weight, as well as powerful output. • Advanced protection functionality DSP-controlled advanced protection functionality promotes optimum reliability even in challenging environments. Microphone Setup Examples Simple system with a single DBR This example illustrates the system when connecting directly to a microphone, musical instrument, or background music source without using a mixer. Main application: small-sized live venue, presentations, restaurants Note For CH2, inputs to the combo jack and to the RCA pin jacks will be mono mixed at a fixed balance. If you want to change the balance, adjust the volume of the connected sound source. POWERED SPEAKER SYSTEM DBR series System with two DBRs and subwoofers This system is the most suitable for a main speaker system. If desired, you can add another DBR to create a floor monitor system. Main application: small-sized live venue, house of worship, event site Note We recommend to use Yamaha DXS series (referred to in this manual as DXS) as a subwoofer. In this case, we recommend that the DBR's HPF cutoff frequency and the DXS's LPF cutoff frequency are set to the same settings; however, you can adjust it as desired. Owner's Manual In order to take full advantage of the DBR series' (referred to in this manual as DBR) superior functionality and enjoy years of trouble-free use, please read this manual before you begin using the product. After you have read the manual, keep it in a safe place for reference when needed. • Please read the PRECAUTIONS on the reverse side of this manual before use. • This manual uses example illustrations taken from the DBR12 if not otherwise specified. • The illustrations as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your device. • The company names and product names used in this manual are the trademarks or registered trademarks of their respective companies.

Included Accessories • AC power cord • Technical Specifications (English only): includes specifications, block diagram, and dimensions. • Owner's manual (this leaflet) Musical instrument R L Controls and Connectors Rear 1 Input jacks (CH1 and CH2) These are balanced combo jacks that support both XLR and phone plugs (both CH1 and CH2), and RCA pin plugs (CH2 only). For the combo jacks, connect a mixer, microphone, or digital musical instrument such as a keyboard. For RCA-pin jacks, connect a device such as an MP3 player or a CD player. For devices with high level signals such as a mixer, connect to CH2, or connect to CH1 then set the [MIC/LINE] switch (3) to [LINE].

Background music source C XLR Phone RCA-pin Subwoofer Mixer Subwoofer 6 1 2 3 7 8 9 2 [LEVEL] knobs Adjust the level of each input jack (1). 3 [MIC/LINE] switch 0 A 4 5 Set this switch to [MIC] or [LINE] for the CH1 jack, depending on the level of the input signal. For low level signals (such as microphones), set the switch to [MIC]. For high-level signals (such as mixer), set the switch to [LINE]. 4 Output switch Selects the output signal sent to the output jack (5). [CH1 THRU]: Delivers the direct output signal of CH1 only. Signal from CH2 will not be output. [CH1+2 MIX]: Outputs the mixed signals of CH1 and CH2. 5 Output jack This is a balanced XLR jack. This can be used to connect another DBR speaker.

Outputs the signal selected by 4 output switch. 6 [LIMIT] indicator Indicates (lit in red) that the limiter is on when the output voltage of the amplifier has exceeded the maximum level, or when excessive integral power consumption is detected. If this indicator stays lit, lower the input level. Note Integral power consumption refers to the sum of power provided to the speaker driver per unit time. Floor monitor system This system is suitable for a performer's monitoring system. For use as a vocal monitor, set the [D-CONTOUR] switch to [MONITOR]. If necessary, you can additionally connect up to four speakers in parallel. In this case we recommend that the signal is input to CH1 and the output switch is set to [CH1 THRU]. Mixer 7 [SIGNAL] indicator Indicates (lit in green) when an audio signal exceeding the threshold has been detected. 8 [PROTECTION] indicator B C D E Bottom Indicates (lit in red) when the protection circuit is active.

The protection circuit will be activated and the speaker outputs will be muted in the situations listed below. • If amplifier overheating is detected • If overcurrent is detected • When turning the power on; the protection circuit will be activated for a few seconds to prevent noise. The indicator turns off when the power supply has started normally. If the protection circuit has engaged, waiting until the amplifier cools down or powering off and on again will return to normal operation. If the unit does not return to normal operation, please contact your Yamaha dealer.

9 [POWER] indicator Indicates (lit in green) when the [/] (power) (E) switch is turned on. 0 [D-CONTOUR] indicator Indicates (lit in yellow) when the [D-CONTOUR] switch (A) is set to [FOH/MAIN] or [MONITOR]. A [D-CONTOUR] switch Selects one of the D-CONTOUR (Dynamic CONTOUR) presets. [FOH/MAIN]: Boosts the high and low frequency components so that the frequency response is suitable for a main speaker. [MONITOR]: Reduces the low frequency range, which could otherwise tend to be boomy if the speaker is set directly on the floor.

This enables you to hear mid and high frequency ranges clearly when using as a floor monitor. [OFF]: Turns off D-CONTOUR. This is a generic frequency response setting. B [HPF] switch Selects the cutoff frequency of the high pass filter. If you set this switch to [120Hz] or [100Hz], the low frequency components below each threshold will be cut. If you use the unit alone, set this switch to [OFF]. If you plan to use the unit along with a subwoofer, we recommend that you set this switch to [120Hz] or [100Hz]. C Vent The unit contains a cooling fan. Since the air for cooling is taken in and expelled here, be careful not to block this vent. D [AC IN] socket Connect the supplied power cord here.

First connect the power cord to the unit, then plug it into an appropriate AC power outlet. CAUTION Turn off the power before you connect or disconnect the power cord. Set to [CH1 THRU] Set to [CH1 THRU] To next speaker Troubleshooting Symptom Power does not turn on. Power suddenly went off. No Sound. Sound is interrupted suddenly. Sound howls (feedback). Each speaker sound differs (if multiple speakers are used). Sound is distorted. The [LIMIT] indicator is off.

Possible causes The power cord is not connected properly. The protection system has been activated, shutting down the power supply. The cable is not connected properly. The protection circuit has been activated, muting the output. A microphone is directed toward the speaker.

Sound is amplified too much.



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Settings for each speaker differ. Input volume is excessive. Possible solution Connect the power cord all the way in so that it is firmly in place. Turn off the power, wait until the amplifier cools down, and then turn on again.

Connect the cable all the way in so that it is firmly in place. Wait until the amplifier cools down. If the unit won't automatically reset itself, turn off the power, and then on again. Aim the speaker away from the area where the microphone picks up sound. Lower the volume of input device and locate the microphone more closely to the sound source. Set the [HPF] switch and [D-CONTOUR] switch of each speaker to the same positions. When the [MIC/LINE] switch is set to [MIC], and even if you lower the volume fully the sound is still distorted, set the switch to the [LINE] position. If the sound is still distorted even if the switch has been set to [LINE], lower the volume of the connected input devices. Turn the [LEVEL] knob to lower the output level to a point so that the [LIMIT] indicator lights only occasionally. Set the [MIC/LINE] switch to the [MIC] position.

Lower the input level or the output level until the [LIMIT] indicator lights occasionally. E [/ F G] (power) switch Turns power to the unit on [] or off []. First, turn on the power of the connected sound source (external device), then the unit. When turning off the power, reverse the order by turning off the power of the unit first and then the connected sound source (external device). CAUTION Even when the switch is in the off position, a small amount of electricity is still flowing to the unit. If it will not be used for an extended period of time, therefore, be sure to unplug the power cord from the wall AC outlet. Note • Rapidly turning the unit on and off in succession can cause it to malfunction. After turning the unit off, wait for about 5 seconds before turning it on again. • If you are using multiple units, turn on the power to each unit one by one. If you turn on the power to multiple units simultaneously, a temporary drop in the power voltage may occur, possibly resulting in abnormal operation of the units.

F Screw holes (M8) Use these M8 size screw holes for installing separately sold brackets or commercially available eye bolts. G Pole socket This socket adapts to commercially available speaker stands and speaker poles of 35 mm diameter. The [LIMIT] indicator is on. The microphone volume is too low. Low and high frequency are unbalanced.

Output volume is excessive. The [MIC/LINE] switch is set to [LINE]. The output limiter is active. If any specific problem should persist, however, please contact your Yamaha dealer. Installation Examples CAUTION • Before doing any installation or construction work, consult with your Yamaha dealer. • For optimum safety, the installation should be checked thoroughly at regular intervals. Some fittings may deteriorate over extended periods of time due to wear and/or corrosion. • When choosing the installation location, suspension wire and mounting hardware, make sure all are strong enough to support the weight of the speaker. • Make sure to take measures to prevent the speaker from falling down in the event of a installation failure. • When installing the safety wire to the wall, install it higher than the wire's attachment point on the speaker, with as little slack as possible. If the wire is too long, and the speaker happens to fall, the wire may snap as a result of too much strain. PRECAUTIONS Securing the screws and eye bolts PLEASE READ CAREFULLY BEFORE PROCEEDING WARNING Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following: Power supply/power cord • Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it. • Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.

• Use only the supplied power cord/plug. @@@@Do not open • This device contains no user-serviceable parts. @@If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified • Insert the screw or eye bolt through the washer to attach them. Please keep this manual in a safe place for future reference. Apply thread-locking fluid to the eye bolt Yamaha cannot be held responsible for damage or injury caused by insufficient strength of the support structure or improper installation. Installation using separately sold Yamaha speaker brackets Attach the bracket to two screw holes at the bottom of the unit using commercially available screws (M8 x 16 mm) or eye bolts (M8 x 15 mm). @@@@The maximum downward tilt angle is shown in the following chart. @@@@Doing so may result in malfunction. • Before moving the device, remove all connected cables.

@@@@@@@@@@@–Avoid locations that are exposed to constant vibration.

–Use the required tools to install the device. –Inspect the device periodically. @@@@Then have the device inspected by qualified Yamaha service personnel. • Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors. •

Do not use the device for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss.

If you experience any hearing loss or ringing in the ears, consult a physician. • Do not operate the device if the sound is distorting. Prolonged use in this condition could cause overheating and result in fire. • Do not pull the cables connected to the microphones, etc. Yamaha cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed.

(PA-3) IMPORTANT NOTICE FOR THE UNITED KINGDOM Connecting the Plug and Cord WARNING: THIS APPARATUS MUST BE EARTHED IMPORTANT. The wires in this mains lead are coloured in accordance with the following code: GREEN-AND-YELLOW : EARTH BLUE : NEUTRAL BROWN : LIVE As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or colored GREEN or GREEN-and-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. (3 wires) □□Using the BCS251 ceiling bracket 235 923 Max.



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45° (Pullback point for DBR15 and DBR12 only) Incorrect: Do not suspend the eye bolts as shown in the illustrations below. CAUTION Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following: Power supply/power cord • When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it. • Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.

Location • Do not place the device in an unstable position where it might accidentally fall over. • Do not block the vents. This device has ventilation holes at the rear to prevent the internal temperature from becoming too high. In particular, do not place the device on its side or upside down. Inadequate ventilation can result in overheating, possibly causing damage to the device(s), or even fire. • When installing the device: – Do not cover it with any cloth. – Do not install it on a carpet or rug. – Do not use the device in a confined, poorly-ventilated location. Inadequate ventilation can result in overheating, possibly causing damage to the device(s), or even fire. Make sure that there is adequate space around the device: at least 30cm above, 30cm at the sides and 30cm behind.

• Do not use the speaker's handles for suspended installation. Doing so can result in damage or injury. • Do not hold the bottom of the device when transporting or moving it. In doing so, you may pinch your hands under the device, and result in injury. • Do not press the rear panel of the device against the wall.

Doing so may cause the plug to come in contact with the wall and detach from the power cord, resulting in short circuiting, malfunction, or even fire.

□□ Using the BBS251 baton bracket Baton diameter f 34 - f 51 235 923 Only one suspension point More than 45° from a right angle More than 45° More than 45° Max. 45° Note In order to prevent the unit from falling down, attach the safety wire as shown in the illustration. To avoid the possibility of malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below. Handling and maintenance • Do not expose the device to excessive dust or vibration, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day), in order to prevent the possibility of panel disfiguration, unstable operation, or damage to the internal components.

• Do not place vinyl, plastic or rubber objects on the device, since this might discolor the panel. • When cleaning the device, use a dry and soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical impregnated wiping cloths. • Condensation can occur in the device due to rapid, drastic changes in ambient temperature—when the device is moved from one location to another, or air conditioning is turned on or off, for example. Using the device while condensation is present can cause damage. If there is reason to believe that condensation might have occurred, leave the device for several hours without turning on the power until the condensation has completely dried out. • When turning on the AC power in your audio system, always turn on the device LAST, to avoid speaker damage. When turning the power off, the device should be turned off FIRST for the same reason. • Interference From Cell Phones Using a cell phone near the speaker system can induce noise. If this occurs, move the cell phone further away from the speaker system.

• Air blowing out of the bass reflex ports is normal, and often occurs when the speaker is handling program material with heavy bass content. • Always turn the power off when the device is not in use. Connectors • XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), and pin 3: cold (-). NOTICE For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below. NORTH

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Room 37, bld. 7, Kievskaya street, Moscow, 121059, Russia Tel: 495 626 5005 Y amaha Music Europe GmbH Siemensstraße 22-34, 25462 Rellingen, Germany Tel: +49-4101-3030 VIETNAM EUROPE THE UNITED KINGDOM/IRELAND OTHER ASIAN COUNTRIES Information for Users on Collection and Disposal of Old Equipment This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC. By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items. [For business users in the European Union] If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information. [Information on Disposal in other Countries outside the European Union] This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

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O.Box 17328, Jebel Ali - Dubai, U.A.E Tel: +971-4-881-5868 AUSTRIA/BULGARIA COUNTRIES AND TRUST TERRITORIES IN PACIFIC OCEAN f35 mm Bottom x 1 Bottom x 2, Rear x 1 (Fit for M8 x 15 mm) BBS251, BCS251, BWS251-300, BWS251-400 INPUT1: Combo x1, INPUT2: Combo x 1 + RCA-pin x 2 XLR3-32 x 1 (CH1 Paralell Through or CH1+CH2 Mix) INPUT1: LINE: +10 dBu, MIC: -22 dBu, INPUT2: +10 dBu INPUT1: LINE: +24 dBu, MIC: -8 dBu, INPUT2: +24 dBu CZECH REPUBLIC/HUNGARY/ ROMANIA/SLOV AKIA/SLOVENIA POLAND/LITHUANIA/LATVIA/ESTONIA Y amaha Music Europe GmbH Branch Poland Office ul. Wrotkowa 14 02-553 Warsaw, Poland Tel: 022-500-2925 Y amaha Music Europe GmbH Branch Austria (Central Eastern Europe Office) Schleiergasse 20, A-1100 Wien, Austria Tel: 01-60203900 CYPRUS OTHER COUNTRIES PA36 HEAD OFFICE Yamaha Corporation, Audio Products Sales and Marketing Division Nakazawa-cho 10-1, Naka-ku, Hamamatsu, Japan 430-8650 0 dBu is referenced to 0.775 Vrm Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer. Yamaha Pro Audio global web site <http://www.yamahaproaudio.com/>

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