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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA MG06X/MG06. You'll find the answers to all your questions on the YAMAHA MG06X/MG06 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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YAMAHA MIXING CONSOLE MG06X MG06 Owner's Manual

Welcome
Thank you for purchasing the Yamaha MG06X/MG06 Mixing Console. Please read this manual thoroughly to get the most out of the product and ensure long-term trouble-free use. After reading the manual, keep it readily available for future reference.
*For the remainder of this manual, the word "owner" is used instead of "Mixing Console."
**In this manual, all panel instructions show the MG06X panel.

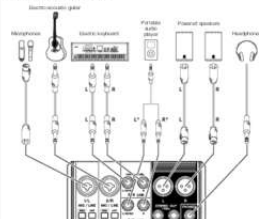
- #### Main Features
- 6-channel mixer features microphone inputs and instrument/line inputs for input jacks.
 - Yamaha's premium head amp "D-PRE" for providing high quality sound.
 - PAD switch to support a wide variety of inputs to the channels 15, and 20.
 - MG06X features high-quality DSP effects (Reverb, Presence) optimum processing for instruments or vocals.

- #### Included Accessories
- AC power cord
 - Technical Specifications, includes block diagram, dimensions, general specifications, and individual characteristics.
 - Owner's Manual (this booklet).

QuickStart Guide

STEP 1 Connecting speakers, microphones, and instruments, etc.

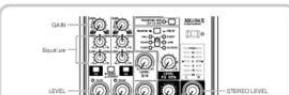
Connection Example



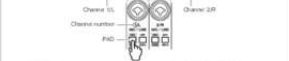
1 Stereo input jacks require connector plugs to fit into jacks.

STEP 2 Getting Sound to the Speakers

- 1 Make sure that all switches including the (ON) switch are not pressed (OFF).
 - 2 Connect the supplied AC power adaptor.
First connect the adaptor to the DC IN (DC) jack at the back panel of the unit (E), and then to the outlet (E).
 - 3 Turn the (GAIN), (LEVEL) knobs (left), and (STEREO LEVEL) knob (right) fully to the left (minimum). Set the equalizer knobs (green) to the center ("0").
- Refer to the illustration at the top of the next column, before step 4.



- 4 If you connect a device with high output level, such as a CD player or an electric keyboard to the channels 15, and 20, turn on (ON) the (PAD) switch of the corresponding channel.
*Channel 15: Pad switch to left (sound is input).



- NOTE: If you are using standard microphones, turn on (ON) the (PHONO) switch.
- 5 Turn on the power to connect devices in the following order:
• (Microphones), • (Instruments), • (Audio devices) (ON) (switch on unit) • (L) (speakers) (ON) (switch on unit).

- 6 Set the (STEREO LEVEL) knob to the "0" position.

- 7 For channels to which a microphone is connected, set the (GAIN) knob to roughly the 12 o'clock position.

- 8 While playing your instrument or speaking into the microphones, turn the (LEVEL) knob to adjust the volume of the corresponding channel.

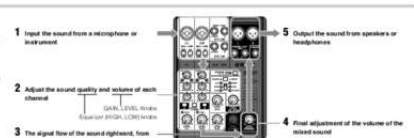
- 9 If necessary, adjust the volume of the speaker or power amp.
If you hear the sound and the volume seems appropriate, setup is complete. If not, proceed to step 10 below.

- 10 If the sound is not heard, or if you want to adjust the volume, follow the instruction in the boxed section below.
If you still do not hear the sound after doing the following steps, please refer to the checked-in "Troubleshooting" section at the back of this booklet.

- 1 Turn the (GAIN) knob to the right so that the corresponding (PEAK) LED flashes briefly.
NOTE: The (PEAK) LED flashes right after the (GAIN) knob has been turned to the right. After the volume of the sound source is constant, only the (PEAK) LED will flash when the volume is increased.
 - 2 If the (PAD) switch is turned on (ON), set the (LEVEL) knob to "0" (minimum), and then turn off (OFF) the switch.
 - 3 Slowly turn the (LEVEL) knob to the right until the desired volume is reached.
 - 4 To decrease the volume:
1 Set the (LEVEL) knob to "0" (minimum), then turn on (ON) the (PAD) switch.
 - 2 Slowly turn the (LEVEL) knob to the right until the desired volume is reached.
- 3 This volume does not decrease after the above steps.
- 4 Lower the volume of the instrument or audio device.

Mixer Basics Where Your Sound Goes

The signal is processed (equalized) and the sound flow from summing (mixing) sound which was input to the channels is output from both the speakers or headphones. Let's find out where input sound goes once it's into the mixer.

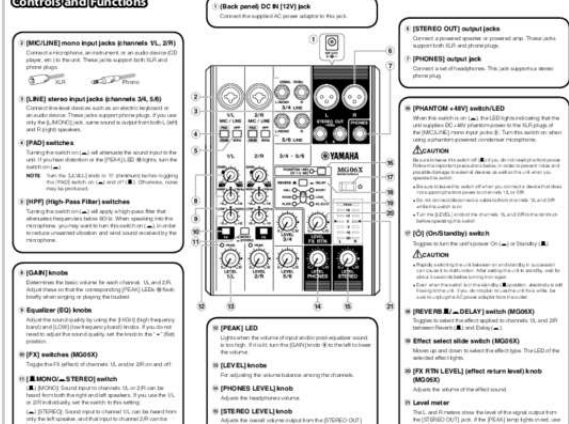


- 1 Input the sound from a microphone or instrument.
- 2 Adjust the sound quality and volume of each channel.
GAIN, LEVEL, knobs
Equalizer (EQ), COM, knobs
- 3 The signal flow of the sound is split, from the channels to the final output.
- 4 Final adjustment of the volume of the mixed sound.
- 5 Output the sound from speakers or headphones.

Applying Effects (MG06X)

- NOTE: Effects require additional volume. Effects and Delay processors that are in the same stage as our famous DSP effect processor series. These effects let you simulate the ambience of different performance environments, such as concert halls and small clubs, and add warm, natural ambience to your vocals or instrument performance.
- 1 Use the (REVERB), (DELAY), switch to select Reverb (RE) or Delay (DE).
- | TYPE | Description |
|---------|--|
| REVERB | Reverb simulating a large space, such as a concert hall. |
| ROOM | Reverb simulating the ambience of a small space (room). |
| PLATE | Reverb simulating a more open, grandiose, or more "hall-like" sound. |
| DELAY | Clear echo with a "musical" sound. |
| LONG | Long, resonant echo with a controlled decay. |
| REARCHO | Echo suitable for vocals. |
- 2 Move the effect select slide switch up and down to select the effect type. The LED of the selected effect type.
 - 3 Turn on (ON) the (FX) switch of the channel (15 or 20) to which you want to apply the effect.
 - 4 Turn the (FX RTN LEVEL) knob to adjust the effect amount.

Controls and Functions



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Manual abstract:

Let's find out where input sound goes once it's inside the mixer. 1 Input the sound from a microphone or instrument 5 Output the sound from speakers or headphones Owner's Manual Welcome Thank you for purchasing the Yamaha MG06X/MG06 Mixing Console. Please read this manual thoroughly to get the most out of the product and ensure long-term, trouble-free use. After reading this manual, keep it readily available for future reference. * For the remainder of this manual, the word "mixer" is used instead of "Mixing Console." ** In this manual, all panel illustrations show the MG06X panel. LEVEL STEREO LEVEL 2 Adjust the sound quality and volume of each channel GAIN, LEVEL Knobs Equalizer (HIGH, LOW) knobs 4 If you connect a device with high output level, such as a CD player or an electric keyboard to the channels 1/L and 2/R, turn on (O) the [PAD] switch of the corresponding channel*. * Channel: Location or path where sound is input. 3 The signal flow of the sound rightward, from the channels to the final output. 4 Final adjustment of the volume of the mixed sound Main Features Channel 1/L Channel number PAD Channel 2/R • 6-channel mixer features microphone inputs and stereo/mono line inputs for input jacks.

• Yamaha's premium head amp "D-PRE" for providing high quality sound. • PAD switch to support a wide variety of inputs to the channels 1/L and 2/R. • (MG06X) Yamaha's high-quality SPX effects (6 types), providing optimum processing for instruments or vocals. Applying Effects (MG06X) The MG06X features built-in effects (Reverb and Delay) processors that are in the same league as our famed SPX effect processor series. Those effects let you simulate the acoustics of different performance environments, such as concert halls and small clubs, and add warm, natural ambience to your vocals or instrument performance.

2 3 4 Move the effect select slide switch up and down to select the effect type. The LED of the selected effect lights. Turn on (O) the [FX] switch of the channel (1/L or 2/R) to which you want to apply the effect. Turn the [FX RTN LEVEL] knob to adjust the effect amount. • AC power adaptor • Technical Specifications: Includes block diagram, dimensions, general specifications, and input/output characteristics.

@ @ Reverb simulating the acoustics of a small space (room). Reverb simulating a metal-plate, producing a more hard-edged sound. Short echo with a "doubled" sound. Long, resonant echo with an extended decay. @ @ @ @ @ These jacks support both XLR and phone plugs. 8 L R L R While playing your instrument or speaking into the microphone, turn the [LEVEL] knob to adjust the volume of the corresponding channel. Connect a microphone, an instrument, or an audio device (CD player, etc.) to the unit. These jacks support both XLR and phone plugs. 7 [PHONES] output jack Connect a set of headphones.

This jack supports a stereo phone plug. XLR Phone 3 [LINE] stereo input jacks (channels 3/4, 5/6) L R L* R* L R Connect line-level devices such as an electric keyboard or an audio device. These jacks support phone plugs. If you use only the [L/MONO] jack, same sound is output from both L (left) and R (right) speakers. 2 3 4 5 ^ & 8 9) ! * (A ^ [PHANTOM +48V] switch/LED When this switch is on (O), the LED lights indicating that the unit supplies

DC+48V phantom power to the XLR plugs of the [MIC/LINE] mono input jacks 2. Turn this switch on when using a phantom-powered condenser microphone. 9 If necessary, adjust the volume of the speaker or power amp. If you hear the sound and the volume seems appropriate, setup is complete. If not, please go to step 10 below. NOTICE To avoid any loud noise from the speaker, first turn off the power of the speaker (speaker amp), then the unit itself, and finally the connected sound source such as an instrument.

4 [PAD] switches Turning the switch on (O) will attenuate the sound input to the unit. If you hear distortion or the [PEAK] LED @ lights, turn the switch on (O). NOTE Turn the [LEVEL] knob to "0" (minimum) before toggling the [PAD] switch on (O) and off (N). Otherwise, noise may be produced. CAUTION Be sure to leave this switch off (N) if you do not need phantom power.

Follow the important precautions below, in order to prevent noise and possible damage to external devices as well as the unit when you operate this switch. • Be sure to leave this switch off when you connect a device that does not support phantom power to channels 1/L or 2/R. • Do not connect/disconnect a cable to/from channels 1/L and 2/R while this switch is on. • Turn the [LEVEL] knob of the channels 1/L and 2/R to the minimum before operating this switch. 10 If the sound is not heard, or if you want to adjust the volume, follow the instructions in the boxed section below.

If you still do not hear the sound after doing the following steps, please refer to the checklist in the "Troubleshooting" section at the back of this booklet. 5 [HPF] (High-Pass Filter) switches Turning the switch on (O) will apply a high-pass filter that attenuates frequencies below 80Hz. When speaking into the microphone, you may want to turn this switch on (O), in order to reduce unwanted vibration and wind sound received by the microphone. & [] (On/Standby) switch CAUTION * Stereo mini plugs require conversion plugs to phone plugs. STEP 2 Getting Sound to the Speakers 1 Make sure that all switches including the [] switch are not pressed (N). 2 Connect the supplied AC power adaptor. First connect the adaptor to the DC IN [12V] jack at the back panel of the unit (1), and then to the outlet (2). Power adaptor < There is no sound, or you need to increase the volume 1 Turn the [GAIN] knob to the right so that the corresponding [PEAK] LED flashes briefly. NOTE If the [PEAK] LED does not light even if the [GAIN] knob has been turned fully to the right, raise the volume of the sound source (instrument, etc.).

Toggles to turn the unit's power On (O) or Standby (N). 8 [GAIN] knobs PAD Determines the basic volume for each channel, 1/L and 2/R. Adjust these so that the corresponding [PEAK] LEDs @ flash briefly when singing or playing the loudest. • Rapidly switching the unit between on and standby in succession can cause it to malfunction. After setting the unit to standby, wait for about 5 seconds before turning it on again. • Even when the switch is in the standby (N) position, electricity is still flowing to the unit. If you do not plan to use the unit for a while, be sure to unplug the AC power adaptor from the outlet. If no sound is heard or the volume does not increase after step 1: 2 3 2 To electrical outlet If the [PAD] switch is turned on (O), set the [LEVEL] knob to "0" (minimum), and then turn off (N) the switch. Slowly turn the [LEVEL] knob to the right until the desired volume is reached. 9 Equalizer (EQ) knobs GAIN Adjust the sound quality by using the [HIGH] (high frequency band) and [LOW] (low frequency band) knobs.



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If you do not need to adjust the sound quality, set the knob to the "6" (flat) position. @ # @ [PEAK] LED \$ % B * [REVERBN /O DELAY] switch (MG06X) Toggles to select the effect applied to channels 1/L and 2/R between Reverb (N) and Delay (O). 1 3 Turn the [GAIN], [LEVEL] knobs (white), and [STEREO LEVEL] knob (red) fully to the left (minimum). Set the equalizer knobs (green) to the center "6" position. Refer to the illustration (at the top of the next column, before step 4).

< To decrease the volume: 1 Set the [LEVEL] knob to "0" (minimum), then turn on (O) the [PAD] switch. 2 Slowly turn the [LEVEL] knob to the right until the desired volume is reached. If the volume does not decrease after the above steps:) [FX] switches (MG06X) PEAK Toggle the FX (effect) of channels 1/L and/or 2/R on and off. Lights when the volume of input and/or post-equalizer sound is too high. If it is lit, turn the [GAIN] knob 8 to the left to lower the volume.

(Effect select slide switch (MG06X) Moves up and down to select the effect type. The LED of the selected effect lights. # [LEVEL] knobs For adjusting the volume balance among the channels. ! [N MONO/O STEREO] switch LEVEL (N) [MONO]: Sound input to channels 1/L or 2/R can be heard from both the right and left speakers. If you use the 1/L or 2/R individually, set the switch to this setting. (O) [STEREO]: Sound input to channel 1/L can be heard from only the left speaker, and that input to channel 2/R can be heard from only the right speaker. A [FX RTN LEVEL] (effect return level) knob (MG06X) Adjusts the volume of the effect sound. \$ [PHONES LEVEL] knob Adjusts the headphones volume. ä B Level meter The L and R meters show the level of the signal output from the [STEREO OUT] jack. If the [PEAK] lamp lights in red, use the [LEVEL] knob to lower the volume.

% [STEREO LEVEL] knob Adjusts the overall volume output from the [STEREO OUT] output jacks. 3 Lower the volume of the instrument or audio device. Troubleshooting Power does not come on. Did □□ you properly plug the power adaptor into an appropriate AC outlet? Did □□ you firmly and securely connect the power plug? General Specifications 0 dBu = 0.775 Vrms Output impedance of signal generator (Rs) = 150 Ω All level knobs are nominal if not specified. Frequency Response Total Harmonic Distortion (THD+N) Hum&Noise *1 (20 Hz to 20 kHz) Crosstalk (1 kHz) *2 Input Channels Output Channels Bus PAD HPF Mono Input Channel Function EQ HIGH EQ LOW PEAK LED Level Meter Internal Digital Effect (MG06X) Phantom Power Voltage Power Supply Adaptor Power Consumption Dimensions (W×H×D) Net Weight Optional Accessory Operating Temperature Post STEREO LEVEL Knob SPX Algorithm Input to STEREO OUT Input to STEREO OUT Equivalent Input Noise Residual Output Noise +0.5 dB/-0.5 dB (20 Hz to 20 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min 0.01 % @ +8 dBu (20 Hz to 20 kHz), GAIN knob: Min 0.003 % @ +18 dBu (1 kHz), GAIN knob: Min -128 dBu (Mono Input Channel, Rs: 150Ω, GAIN knob: Max) -102 dBu (STEREO OUT, STEREO LEVEL knob: Min) -88 dB 6 channels: Mono (MIC/LINE): 2, Stereo (LINE): 2 STEREO OUT: 2, PHONES: 1 STEREO: 1 26 dB 80 Hz, 12 dB/oct Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving LED turns on when post EQ signal reaches 3 dB below clipping (+11 dBu) 2 x 7-segment LED meter [PEAK (+11), +6, +3, 0, -3, -10, -20 dB] 6 programs +48 V PA-130 (DC12 V/1.

0 A, Cable length = 1.8 m), 120 V, 60 Hz, or MU18 (DC12 V/1.5 A, Cable length = 1.5 m), 100 V-240 V, 50 Hz/60 Hz, or an equivalent recommended by Yamaha 12 W 149 mm×62 mm×202 mm (5.9"x 2.4"x 7.9") MG06: 0.9 kg (2.0 lbs), MG06X: 0.9 kg (2.

0 lbs) Mic Stand Adaptor: BMS-10A 0 to +40°C PRECAUTIONS PLEASE READ CAREFULLY BEFORE PROCEEDING Please keep this manual in a safe place for future reference. 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: FCC INFORMATION (U.S.A.) 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT! This product, w in damage to the instrument or overheating. • If you intend to use the device in an area other than in the one you purchased, the included power adaptor may not be compatible. Please check with your Yamaha dealer. @@@@Doing so may result in malfunction.

• Before moving the device, remove all connected cables. @@@@Are □□ the [PEAK] LEDs lit? @@Are □□ the "PEAK" (red) lamps of the level meter lit? @@Are □□ the [PAD] switches turned off (N)? Turn the switches on (O). @@Is □□ the volume from the connected device too loud? @@*2 Crosstalk is measured with 1 kHz band pass filter. @@@@The sound becomes clearer. @@@@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 speakers or headphones 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. Yamaha cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed. Always turn the power off when the device is not in use.

Even when the [](Standby/On) switch is in standby status, electricity is still flowing to the instrument at the minimum level. When you are not using the instrument for a long time, make sure you unplug the power cord from the wall AC outlet. European Models Inrush Current based on EN 55103-1:2009 1 A (on initial switch-on) 1 A (after a supply interruption of 5s) Conforms to Environments: E1, E2, E3 and E4 (PA-en_1) Water warning • Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the device, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified Yamaha service personnel.

• Never insert or remove an electric plug with wet hands. No effect is applied. (MG06X) Did □□ you turn on (O) the [FX] switches? Are □□ the [LEVEL] knobs of all relevant channels raised enough? Did □□ you set the [FX RTN LEVEL] knob to an appropriate level? MIC/LINE 1/L, 2/R* STEREO OUT L, R* Balanced TRS phone plug Ring For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below. PHONES — Sleeve Tip TS phone plug LINE 3/4, 5/6 Tip: Signal Sleeve: Ground Unbalanced Sleeve * These jacks also accept connection to TS phone plugs.



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If you use TS phone plugs, the connection will be unbalanced.

Tip Fire warning • Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire. If you notice any abnormality Mounting to a Microphone Stand Caution • If the stand should fall over, the mixer may be damaged. Attach the connection cables carefully so that the cables will not catch on the equipment and cause it to fall. For example: arrange the cables so that they run parallel with the microphone pole down to the base of the stand. NOTICE To avoid the possibility of malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below. • When one of the following problems occur, immediately turn the power off and disconnect the electric plug from the outlet. Then have the device inspected by Yamaha service personnel. - The power cord or plug becomes frayed or damaged. - It emits unusual smells or smoke.

- Some object has been dropped into the instrument. - There is a sudden loss of sound during use of the device. • If this device or the AC power adaptor should be dropped or damaged, immediately turn the power off, disconnect the electric plug from the outlet, and have the device inspected by qualified Yamaha service personnel. □ Handling and Maintenance □ Do not use the device in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the device, TV, or radio may generate noise. 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 chemically 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. To avoid generating unwanted noise, make sure there is adequate distance between the AC power adaptor and the device. Avoid setting all equalizer and level knobs to their maximum. Depending on the condition of the connected devices, doing so may cause feedback and may damage the speakers.

When turning on the AC power in your audio system, always turn on the power amplifier LAST, to avoid speaker damage. When turning the power off, the power amplifier should be turned off FIRST for the same reason. Always turn the power off when the device is not in use. Notice • When using the mixer on a microphone stand, be sure to set the stand on a level and stable surface. Do not set up the stand in locations subject to vibrations or wind.

• Leave ample free space around the stand. 1 Turn the mixer upside-down, and hold the microphone-stand adaptor (BMS-10A; sold separately) against the bottom of the mixer so that the screw holes are aligned (1). Screw the adaptor firmly into place with the two screws (2). 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. @@@@ You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft. Connecting the Plug and Cord IMPORTANT.

The wires in this mains lead are coloured in accordance with the following code: 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 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. Making sure that neither core is connected to the earth terminal of the three pin plug. (2 wires) Model No. Serial No. (bottom_en_01) Yamaha Pro Audio global web site <http://www.yamahaproaudio.com/> For more information, refer to the BMS-10A

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