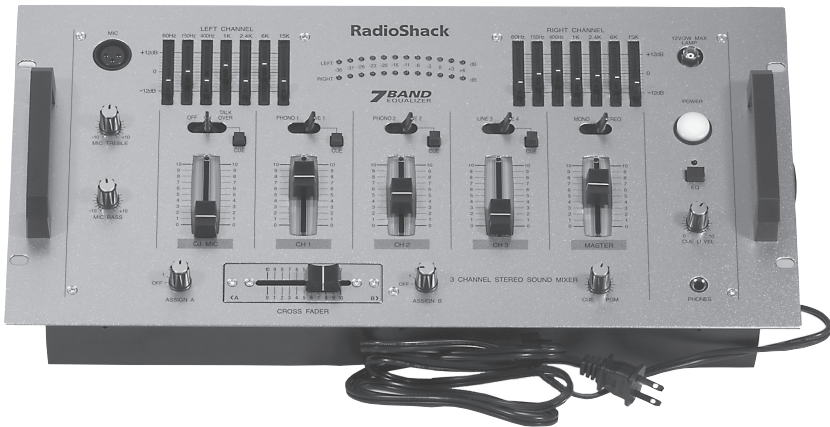# RadioShack®

32-2057

3-Channel Stereo Sound Mixer

Thank you for purchasing your 3-Channel Stereo Sound Mixer from RadioShack. Your mixer is perfect for mixing sound from multiple audio sources, such as microphones, tuners, CD players, or turntables. You can adjust each audio source's sound level for the best mix to play through your sound system, or for recording. This mixer is ruggedly constructed for home or professional use.

what's included

stereo mixer   **user guide**   **quick start guide**

Please read this user's guide before installing, setting up and using your new product

www.radioshack.com

contents

The Basics

IMPORTANT SAFETY INSTRUCTIONS

Read Instructions — All safety and operating instructions should be read before the appliance is operated.

Retain Instructions — The safety and operating instructions should be retained for future reference.

Heed Warnings — Follow all warnings on the appliance and in the operating instructions.

Cleaning — Unplug this appliance from the wall outlet before cleaning. Use only a damp cloth for cleaning. Do not use liquid or aerosol cleaners.

Water and Moisture — Do not use this appliance near water (for example, near a bathtub, washbowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool).

Mounting Accessories — Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the appliance. Follow the manufacturer's instructions for mounting, and use a recommended mounting accessory.

Ventilation — Slots and openings in the cabinet provide ventilation, ensure reliable operation, and protect from overheating. Do not block or cover these openings, and do not place the appliance on a bed, sofa, rug, or other similar surface. Do not place the appliance in a built-in installation such as a bookcase or rack unless it provides proper ventilation as specified by the manufacturer.

Heat — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

Power Sources — Operate this appliance only with the power source indicated. If you are not sure of your home's power type, consult your appliance dealer or power company.

Polarized Power Cord Plug — This appliance is equipped with a polarized power cord plug (a plug having one blade wider than the other). This plug will fit in the power outlet only one way. This is a safety feature. If you cannot insert the plug fully into the outlet,

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The Basics

try reversing the plug. If the plug still doesn't fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Power-Cord Protection — Route power-supply cords so they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

Cleaning — The appliance should be cleaned only as recommended by the manufacturer. Wipe it with a cloth slightly dampened with water. Avoid getting water inside the appliance.

Power Lines — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Nonuse Periods — The power cord of the appliance should be unplugged from the outlet when the appliance is to be left unused for a long period of time.

Overloading — Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.

Objects and Liquids — Never push objects of any kind into this appliance through openings, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.

Carts and Stands — If the appliance is used with a cart or stand, the cart/stand type should be recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces cause the appliance and cart combination to overturn.

Mounting — The appliance should be mounted only as recommended by the manufacturer.

Damage Requiring Service — Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:

* When the power-supply cord or plug is damaged.

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* If liquid has been spilled or objects have fallen into the appliance.

* If the appliance has been exposed to rain or water.

* If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.

* If the appliance has been dropped or damaged in any way.

* When the appliance exhibits a distinct change in performance.

Servicing — Do not attempt to service this appliance yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement Parts — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check — Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

Lightning — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power line surges.

Attachments — do not use attachments not recommended by the product manufacturer as they may cause hazards.

Wall or Ceiling Mounting — The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

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setting up your mixer

A sudden high output from the mixer could damage your hearing or damage the audio devices connected to your mixer. Before connecting to AC power, turn off your mixer and all audio devices connected to your mixer.

connecting outputs

OUTPUT REC L/R — use an audio patch cord (not supplied) to connect your tape deck's line input jacks to your mixer (match left to left, right to right). You can then record the mixer's output.
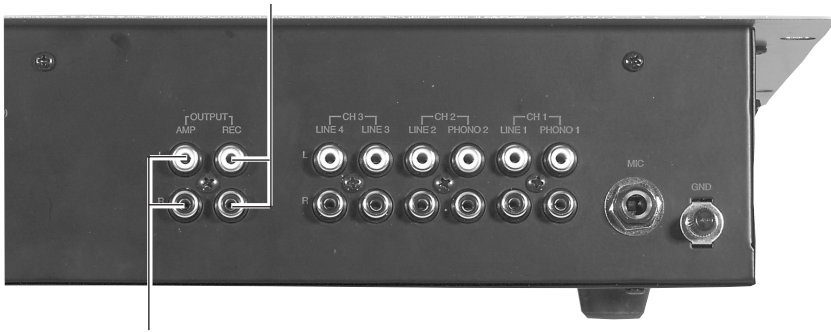

OUTPUT AMP L/R — use an audio patch cord (not supplied) to connect your receiver or amplifier to your mixer (match left to left, right to right). The sound is output to your stereo sound system.

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connecting inputs

MIC — connect a microphone with a $\frac{1}{4}$-inch plug here (not supplied).

PHONO 1/2 — connect up to two low-level audio sources (turntable) to your mixer. If you connect a magnetic-cartridge turntable, connect its ground wire (usually black or green) to **GND**.

GND
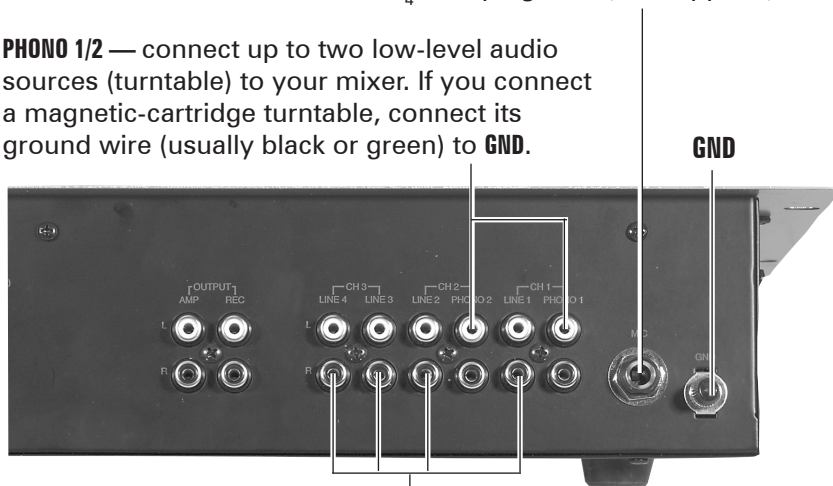
LINE 1, 2, 3, 4 — connect line level inputs from up to four audio sources to your mixer. Do not connect audio sources with line-level outputs to the **PHONO 1** or **PHONO 2** input jacks.
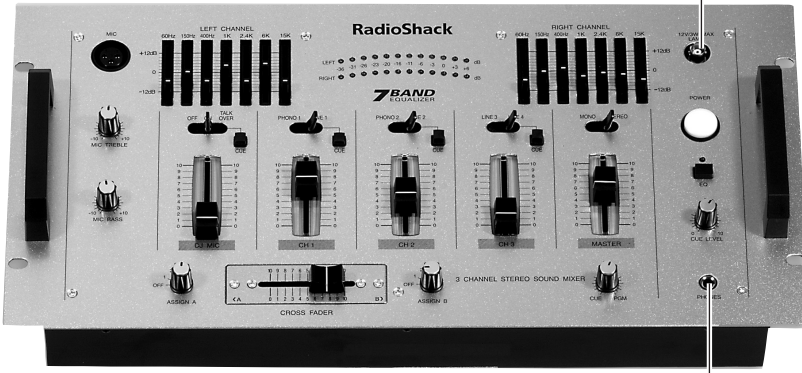
connecting power

Connect the mixer's power cord to a standard AC outlet.

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connecting a lamp and headphones

12V/3W MAX LAMP — connect a 12V DC/3W BNC lamp (not supplied) to light up the mixer's controls.

PHONES — connect a pair of stereo headphones (not supplied) with a $\frac{1}{4}$-inch (6.35 mm) plug. You can then listen and locate a section of music to mix.

listening safely

Do not listen at extremely high volume levels. Extended, high-volume listening can lead to permanent hearing loss.

To protect your hearing when using headphones, always follow these guidelines to set the listening volume:

- Set **CUE LEVEL** (headphones volume) to minimum before putting on your headphones.

- After you put on the headphones, adjust **CUE LEVEL** to a comfortable listening level. Do not increase the **CUE LEVEL** setting. Over time, your ears adapt to the volume level.
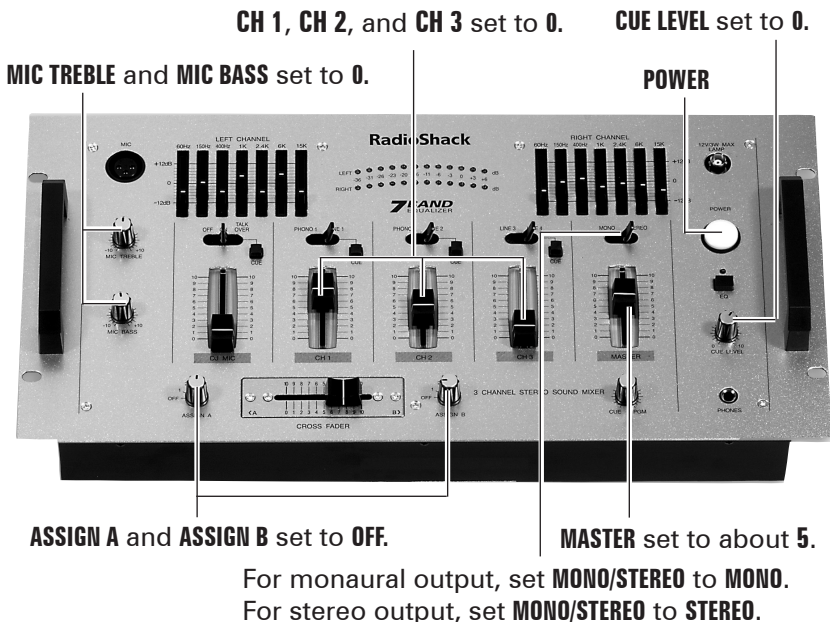
The Basics

using your mixer

1. Set your output source's volume to minimum and turn it on.

2. Press **POWER** to turn on the mixer.

3. Turn on the audio input sources you want to mix.

4. Preset the input signal levels and mix your audio input sources. Refer to the next two sections for details.

5. When you are finished, turn off all connected audio sources (amplifiers, tape decks, and so on), and press **POWER** to turn off the mixer.

presetting input signal levels

To avoid overdriving a channel or prematurely mixing an audio input source, adjust your mixer to these settings:

CH 1, **CH 2**, and **CH 3** set to **0.**   **CUE LEVEL** set to **0.**

MIC TREBLE and **MIC BASS** set to **0.**   **POWER**

ASSIGN A and **ASSIGN B** set to **OFF.**   **MASTER** set to about **5.**

For monaural output, set **MONO/STEREO** to **MONO.**
For stereo output, set **MONO/STEREO** to **STEREO.**

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presetting audio input sources

Before mixing your audio sources (devices connected to **LINE 1, PHONO 1, PHONO 2, LINE 2, LINE 3, LINE 4**), you must set their input signal level to each channel input (**CH1, CH2, CH3**). You do not have to mix every connected input source.

1. To preset the PHONO 1 input source, set **PHONO 1/LINE 1** to **PHONO 1**.

2. Play the selected input source.

3. Adjust the volume on your headphones or receiver to a comfortable listening level.

4. Slowly adjust **CH1** until you get a reading of up to **0** on the mixer's LED meters.

5. Stop playback of the selected input source.

6. Repeat steps 2-5 to preset **LINE 1** to **CH 1**, **PHONO 2** and **LINE 2** to **CH 2**, and **LINE 3** and **LINE 4** to **CH 3**.

The mixer's LED meters show total stereo output level. For best results, input signal levels should be set so the meters read **0db** or less.
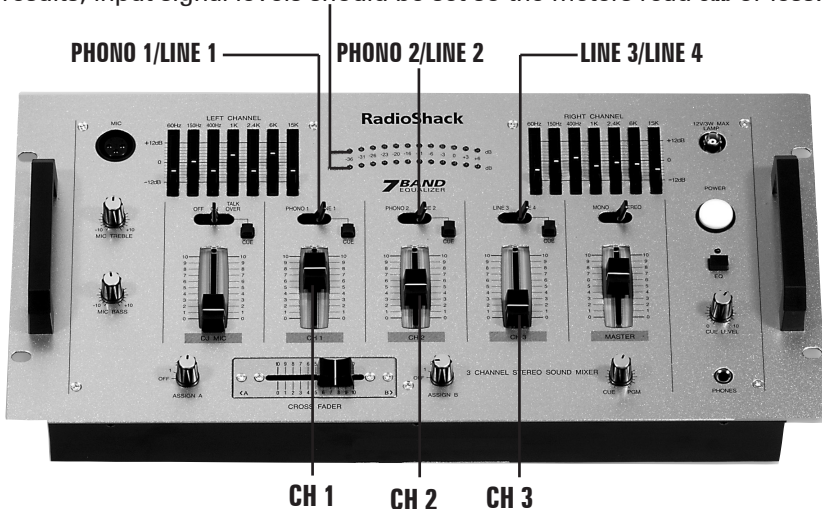
The Basics

Notes:

- Write down the **CH** setting for each audio source. Then, when you want to mix that source, you can adjust its volume to that setting.

- If it was necessary to set **CH 1** to maximum to get a reading of **0** or less on the LED meter, slide **CH 1** down to about **8** and adjust **MASTER** upward until you get a reading of **0** on both LED meters.

presetting the microphone

1. Turn on your microphone.

2. Set **OFF/ON/TALKOVER** to **ON**.

3. While talking, adjust **DJ MIC** until you get a signal reading of up to **0** on both LED meters.

4. Set **OFF/ON/TALKOVER** to **OFF**.

MIC — connect a microphone with an XLR plug here

OFF/ON/TALKOVER
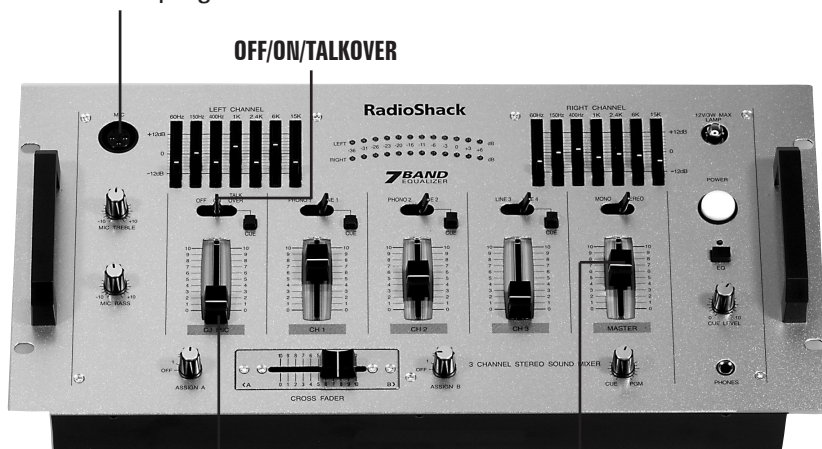
DJ MIC — adjusts volume of the microphone connected to the **MIC** jack.

MASTER —adjusts overall volume of sources connected to **DJ MIC**, **CH1**, **CH2**, and **CH3**.

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sound check

1. Select an input source to play.

2. Adjust its volume (**CH** control) to its preset signal level (see "presetting input signal levels" on Page 9). The mixer's LED meters should read **0dB** or less.

3. Adjust your receiver/amplifier's volume to an appropriate level for the location or event where the mixer will be used.

4. Adjust the **LEFT CHANNEL** and **RIGHT CHANNEL** frequency controls to your preference (see "using the seven band equalizer" on page 15). If this causes the LED meters to exceed **0dB**, adjust **MASTER** downward until their readings return to **0dB**. Adjust your output device's volume accordingly.

mixing your inputs

You can select any two of your connected audio sources and mix them so one or both play through your sound system. Mixing consists of three parts: playing an input source, monitoring a second input source, and switching to a second input source.

playing an input source

1. Set **ASSIGN A** to the desired audio source (**1**, **2**, **3**, correspond to **CH 1**, **CH 2**, **CH 3**).

2. Slide **CROSS FADER** all the way to **A**.

PHONO 1/LINE 1 ——— PHONO 2/LINE 2 ——— LINE 3/LINE 4

CROSS FADER   CUE   CUE LEVEL
ASSIGN A and ASSIGN B   CUE/PGM
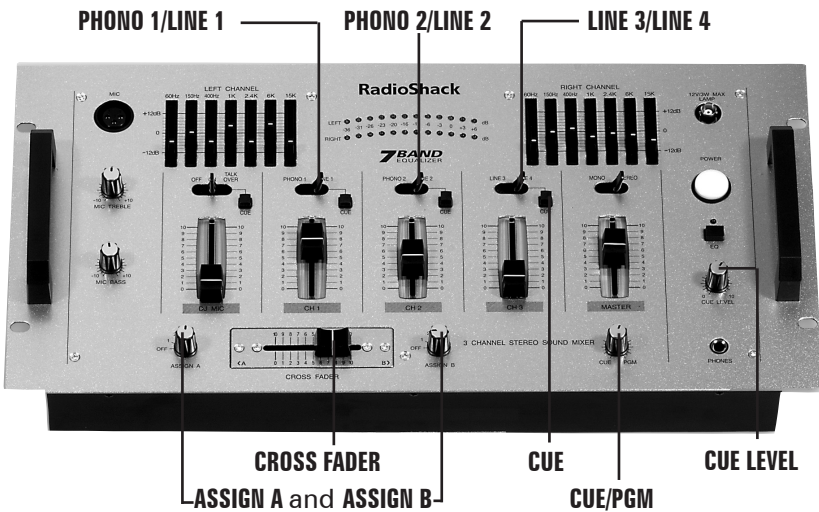
3. Set **PHONO 1/LINE 1**, **PHONO 2/LINE 2**, or **LINE 3/LINE 4** to the preset input source you are going to play first.

4. Adjust the input source's volume to it's preset signal level (see "presetting input signal levels" on Page 9).

5. Play the source.

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monitoring a second input source

Monitoring a second input source requires listening to an input source, finding the desired audio section you want to mix, and adjusting it's sound level to match the volume of the first input source (the one designated **ASSIGN A**).

1. Connect and put on headphones. You can listen to one source through the headphones while the other source plays over the sound system.

2. Set **ASSIGN B** to the second input source (**1, 2, 3,** correspond to **CH 1, CH 2, CH 3**).

3. Press **CUE** (next to the second input source's **CH** control).

4. Set **PHONO 1/LINE 1, PHONO 2/LINE 2,** or **LINE 3/LINE 4** to the second input source.

5. Play the second input source.

6. Adjust the second input source's volume (**CH**) to it's preset signal level. If using headphones, adjust **CUE LEVEL** (headphones volume) to a comfortable listening level.

7. When you reach the desired section of music to mix, stop or pause play.

switching to a second input source

1. Play the second input source.

2. When you are ready to hear it play on your sound system, slide **CROSS FADER** from **A** to **B**.

3. Slide **CROSS FADER** to the left to fade in **ASSIGN A** (source one) and fade out **ASSIGN B** (source two). Slide **CROSS FADER** to the right to fade in **ASSIGN B** and fade out **ASSIGN A**. Slide **CROSS FADER** to the center to equally mix the two.

• Do not slide **CROSS FADER** to the center when monitoring a channel while another is playing. Instead, slide **CROSS FADER** to the channel you are *not* monitoring. For example, to monitor channel 1 (**ASSIGN A**) while channel 2 (**ASSIGN B**) is playing, slide **CROSS FADER** to **B**.

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using a microphone

Your mixer has a set of tone controls for the microphone so you can tailor its high and low frequency sounds.

1. For regular sound, leave **MIC TREBLE** and **MIC BASS** set to **0**.

2. Rotate **MIC TREBLE** toward **+10** to increase, or toward **–10** to decrease high frequency sounds.

3. Rotate **MIC BASS** toward **+10** to increase, or toward **–10** to decrease low frequency sounds.

MIC TREBLE
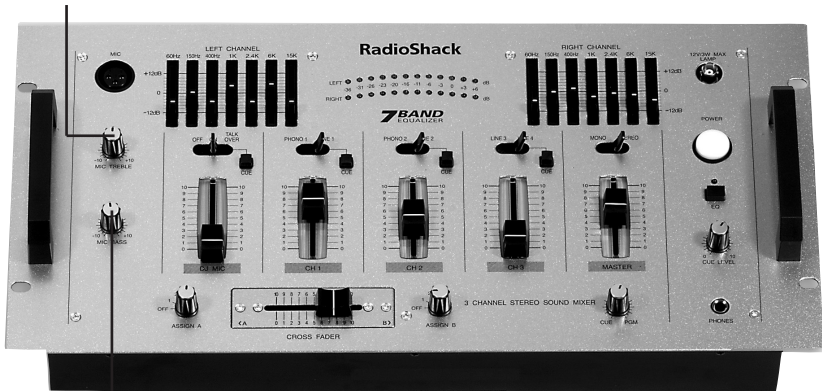
MIC BASS

using talkover

When you are not using your microphone, set **OFF/ON/TALKOVER** to **OFF**. The microphone's input is turned off and all other audio input sources are unaffected.

1. To use your microphone, set **OFF/ON/TALKOVER** to **ON**. The microphone sound is mixed equally with the other audio input sources.

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2. Set **OFF/ON/TALKOVER** to **TALKOVER** so that the microphone's sound is louder than the other audio input sources. This is useful for paging.

using the seven band equalizer

The seven band equalizer controls, **LEFT CHANNEL** and **RIGHT CHANNEL,** further tailor the frequency for **CH 1** (**PHONO1, LINE 1**), **CH 2** (**PHONO2, LINE 2**), and **CH 3** (**LINE 3, LINE 4**) to match your acoustic surroundings or to suit your personal preference.
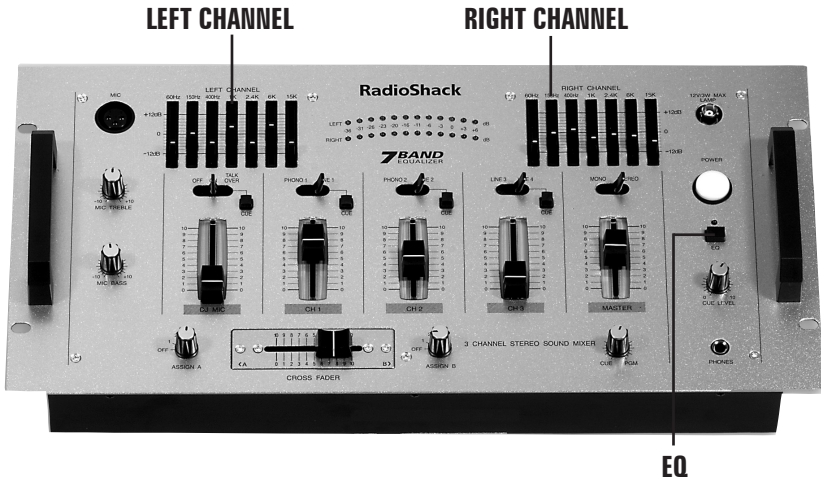
1. To activate the equalizer, press **EQ**. The EQ LED lights.

2. Slide the **LEFT CHANNEL** and **RIGHT CHANNEL** controls for a selected frequency to **+12dB** to boost, or toward **–12dB** to cut the frequency's sound.

To provide smooth frequency control, the equalizer's controls must overlap slightly. Thus, the **1K** control has a slight effect on the range of frequencies covered by the **400Hz** and **2.4K** controls.

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frequently asked questions

Q - I set up my mixer according to the instructions. Why isn't it working?

A - Make sure you are connected to a "live" AC outlet.
   - Verify that all sources are securely connected.
   - Check the fuse and replace it if needed.

Q - Why is there no signal from my input source?

A - Make sure **OFF/ON/TALKOVER** is not set to **TALKOVER**.
   - Make sure the input source is turned on.
   - Check the mixer and source control settings.
   - Check connections between the mixer and input source.

Q - Why do I hear a humming noise from the **PHONO** source?

A - Make sure the PHONO 1 or PHONO 2 source's ground wire is connected to the mixer's **GND** terminal.

Q - Why do I hear a humming noise from another input source?

A - Make sure there are no low-level inputs connected to the mixer's **LINE** input jacks.

Q - Why am I getting microphone feedback (squealing)?

A - Move the microphone further away from the output speakers or use a directional microphone.

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Beyond the Basics

care

Keep the mixer dry; if it gets wet, wipe it dry immediately. Use and store the mixer only in room temperature environments. Handle the mixer carefully; do not drop it. Keep the mixer away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

service and repair

If your mixer is not performing as it should, take it to your local RadioShack store for assistance. To locate your nearest RadioShack, use the store locator feature on RadioShack's website (www.radioshack.com), or call 1-800-The Shack (843-7422) and follow the menu options. Modifying or tampering with the mixer's internal components can cause a malfunction and might invalidate its warranty.

replacing the fuse

The mixer uses a fuse for protection against surges and short circuits. If the mixer suddenly turns off and will not turn on, check the fuse. If necessary, replace it with a 0.5-amp, 250-volt, fast-acting, $1^1/_4$ x $^1/_4$ inch fuse (not supplied).

1. Disconnect power from the mixer.

2. Use a Philips screwdriver to remove the fuse compartment cap.

3. Remove the old fuse and insert a new one. Make sure you replace the fuse only with another fuse of the same type and rating.

4. Replace the fuse compartment cap.

5. Reconnect the mixer to power.

specifications

Input Sensitivity/Impedance:

DJ MIC (XLR jack)...........................1.5 mV, 600 ohms, Balanced/Unbalanced

MIC 2 (PHONE jack)........................1.5 mV, 600 ohms, Balanced/Unbalanced

PHONO 1, PHONO 2... 3 mV/50 kOhms

LINE 1, LINE 2, LINE 3, LINE 4... 150 mV/10 kOhms

Output Level:

Main Out .... 2V/10 kOhms

Record... 150 mV/10 kOhms

Frequency Response...20–20K Hz ±3dB

S/N Ratio (for 1 kHz):

MIC...60dB

PHONO.. 70dB

LINE..80dB

Distortion:

MIC..0.20%

PHONO.. 0.07%

LINE... 0.05%

Tone Control (MIC):

TREBLE .... ±10dB

BASS... ±10dB

Equalizer Control:

Control Frequencies .... 60, 150, 400, 1k, 2.4k, 6k, and 15k Hz

Boost/Cut Range.. ±12dB from center

Talkover Attenuation .... –16dB

Power Source ....AC 120V, 60Hz, 20Watt

Dimensions...19 x 38/1 x $9^7/_{16}$ Inches
(482 x 79 x 240 mm WHD)

Weight.. 9.92 lbs (4.5 kgs)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

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accessories

Depending on how you plan to use your mixer, some or all of the following items may be purchased separately:

audio patch cord

microphone with an XLR plug

microphone with $\frac{1}{4}$-inch plug

stereo headphones

12V lamp bulb

limited one-year warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. For complete warranty details and exclusions, check with your local RadioShack store.

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