

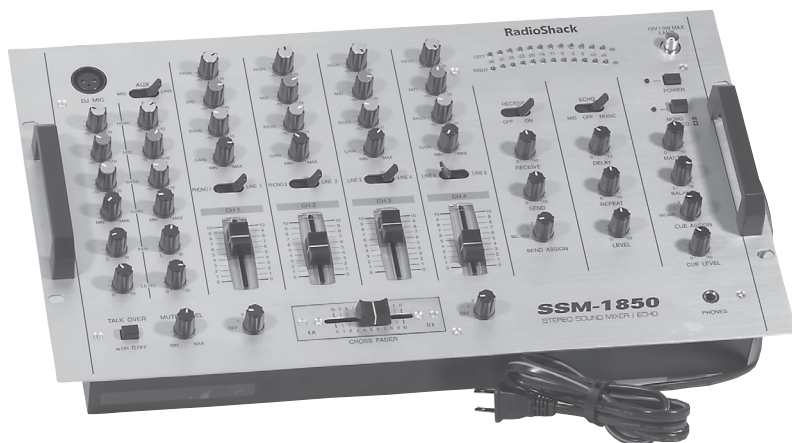
RadioShack®



32-2058

4-Channel Audio Mixer with 3 Band EQ Controls & Echo

Your RadioShack 4-Channel Audio Mixer with 3 Band EQ Controls & Echo is perfect for mixing sound from multiple playback sources such as a microphone, tuner, CD player, turntable, or the audio output from a VCR. It is ruggedly constructed for home or professional use. Its volume controls let you adjust sound for playing through your speaker system or for recording.



Thank you for purchasing your 4-Channel Audio Mixer from RadioShack.

what's included

mixer

user's guide





quick start guide

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

www.radioshack.com

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	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN		WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.			
	The lightning symbol is intended to alert you to the presence of uninsulated dangerous voltage within this product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.		
	The exclamation symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.		

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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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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:

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

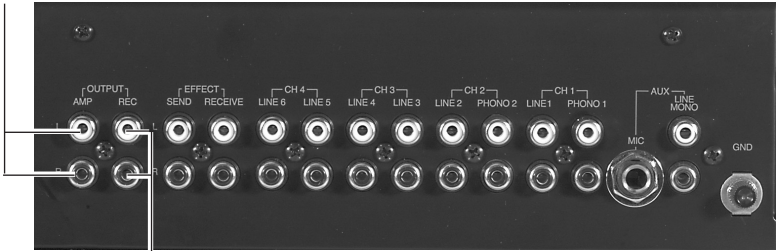
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connections

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 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.



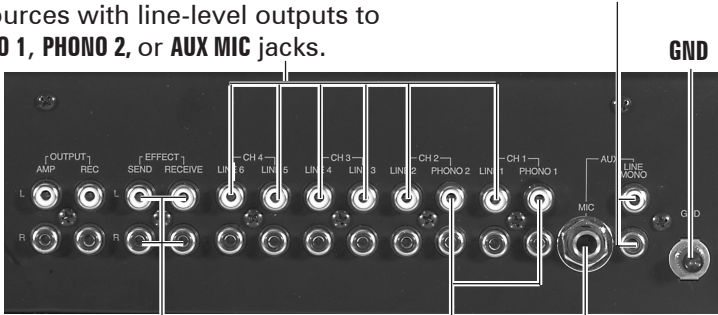
OUTPUT AMP L/R — use an audio patch cord (not supplied) to connect your receiver or amplifier to your mixer (match left to left, right to right). The sound is output to your stereo sound system.

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connecting inputs

LINE 1, 2, 3, 4, 5, 6 — connect up to six audio sources to your mixer. Do not connect audio sources with line-level outputs to the **PHONO 1**, **PHONO 2**, or **AUX MIC** jacks.

AUX LINE MONO — connect a mono input source here.



EFFECT SEND/RECEIVE — connect a sound effect device to **EFFECT SEND** (output) and **EFFECT RECEIVE** (input).

AUX MIC — connect a microphone with a $\frac{1}{4}$ -inch plug here.

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

connecting power

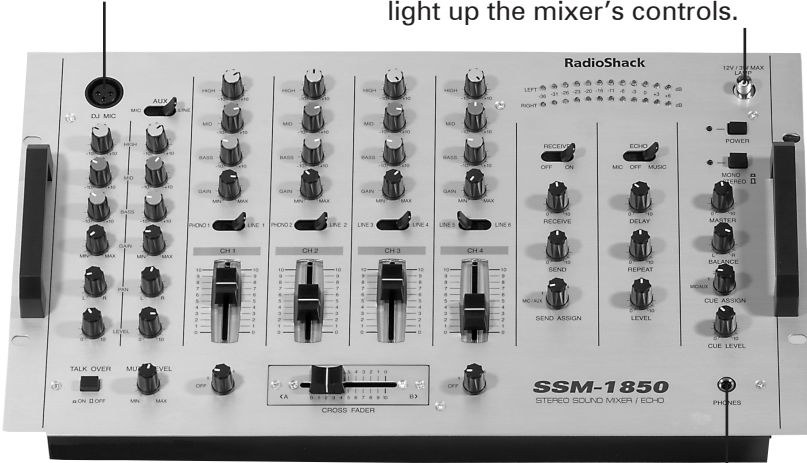
Connect the mixer's power cord to a standard AC outlet.

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connecting a lamp, headphones and mic

DJ MIC — connect a microphone with an XLR plug here.

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 1/4-inch 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.

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using your mixer

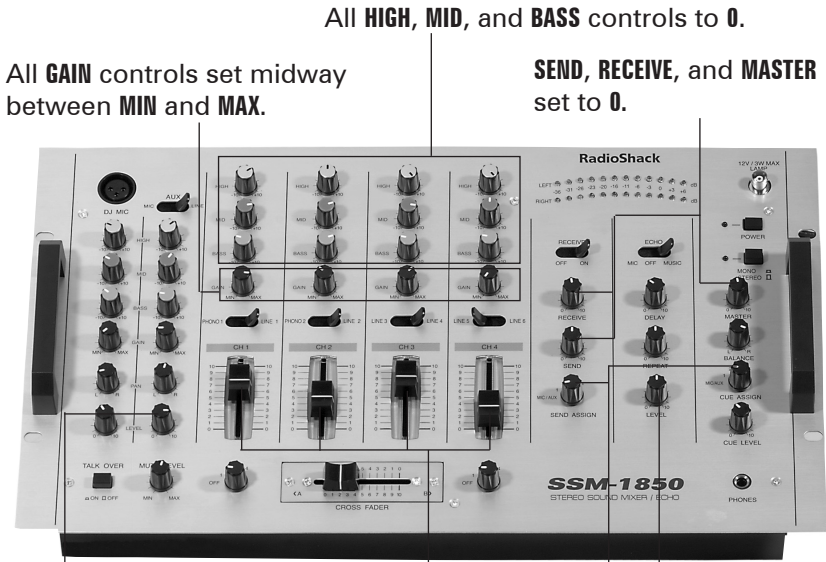
1. Set your output device's volume to minimum and turn it on.
2. Press **POWER** to turn on the mixer.
3. Turn on the audio input sources you want to mix.
4. Preset the input signal levels (see "presetting input signal levels").
5. Mix the audio input sources (see "mixing the inputs" on Page 13).
6. When you are finished, turn off all connected audio devices (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:

1. Rotate **MASTER** clockwise about halfway.
2. Press **MONO/STEREO** in for monaural output. Press again for stereo output.
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.

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All **HIGH**, **MID**, and **BASS** controls to **0**.

All **GAIN** controls set midway between **MIN** and **MAX**.

SEND, **RECEIVE**, and **MASTER** set to **0**.

DJ MIC LEVEL and **AUX LEVEL** to **0**.

CUE LEVEL to **0**.

CH1, **CH2**, **CH3**, and **CH4** to **0**.

SEND ASSIGN and **CUE ASSIGN** to **OFF**.

presetting audio inputs

Before mixing your audio sources (devices connected to **LINE 1**, **PHONO 1**, **PHONO 2**, **LINE 2**, **LINE 3**, **LINE 4**, **LINE 5**, **LINE 6**), you must set their input signal level to each channel input (**CH1**, **CH2**, **CH3**, etc.). You do not have to mix every connected input source.

1. Set the channel selector to the desired input source.
2. Play the selected input source.
3. Adjust **HIGH**, **MID**, and **BASS** as desired. See "using the special controls" on Page 18. If you are using an external equalizer, leave the controls set to **0** and adjust the tone on the external equalizer.
4. Adjust the volume on your headphones (**CUE LEVEL**) or receiver to a comfortable listening level.

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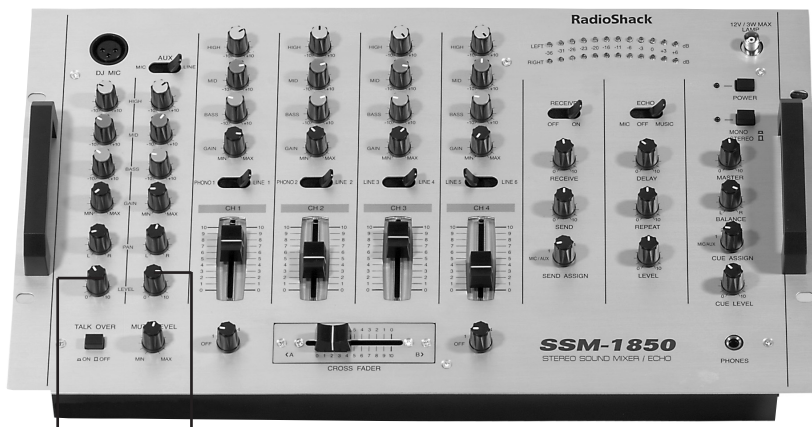
5. Slowly slide up the channel volume control (**CH**) until you get a reading of up to **0 dB** on both LED meters.
6. Stop playback of the selected input source.
7. Repeat steps 1-7 for each audio input you plan to mix.

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 dB** or less on the LED meter, slide **CH 1** down to about **8** and adjust **MASTER** upward until you get a reading of **0 dB** on both LED meters. If that does not work, set **GAIN** midway and rotate **MASTER** clockwise until you get a reading of **0 dB** on the LED meters.

presetting microphone(s)

1. If your microphone has an **ON/OFF** control, turn it **ON**. Otherwise, set **DJ MIC LEVEL** or **AUX LEVEL** to **0**.



DJ MIC LEVEL **AUX LEVEL**

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2. While talking, adjust **DJ MIC LEVEL** or **AUX LEVEL** until you get a reading of less than **0 dB** on both LED meters. See “using an XLR microphone” on Page 16.

Notes:

- Write down the **DJ MIC LEVEL** or **AUX LEVEL** setting. Then, when you want to mix with the microphone, you can adjust it to this setting.
- If it was necessary to set **DJ MIC LEVEL** or **AUX LEVEL** to **10** in order to get a reading less than **0 dB** on the LED meter, adjust either one to **8** and adjust **DJ MIC GAIN** to get a reading less than **0 dB** on the LED meters. See “gain” on Page 18.
- If the above suggestion does not work, set **DJ MIC GAIN** or **AUX GAIN** to about **5** and rotate **MASTER** clockwise until you get a reading less than **0 dB**. Remember that adjusting **MASTER** affects the level of the previously set input sources. You must readjust those sources accordingly.

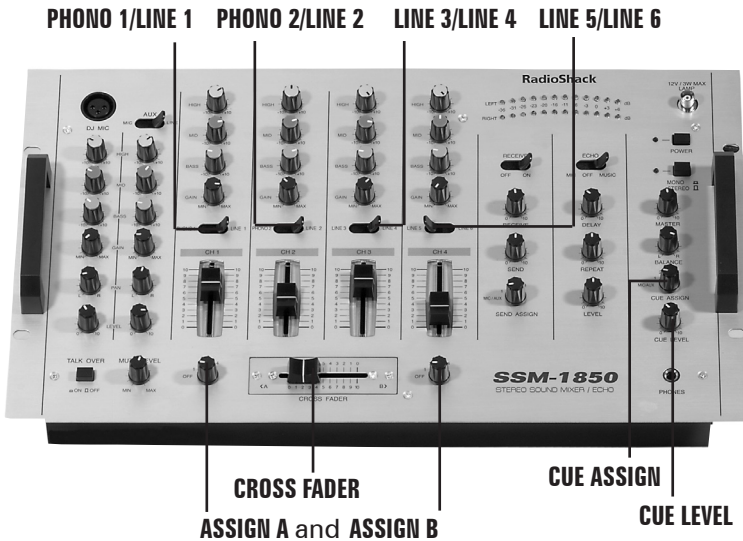
Beyond the Basics

mixing 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, 4** correspond to **CH 1, CH 2, CH 3, CH 4**).



2. Slide **CROSS FADER** all the way to **A**.
3. Select the mixer's input -- **CH 1, CH 2, CH 3, or CH 4**.
4. Set **PHONO 1/LINE 1, PHONO 2/LINE 2, LINE 3/LINE 4, or LINE 5/LINE 6** to the preset input source you are going to play first.
5. Adjust the input source's volume to its preset signal level (see "presetting input signal levels" on Page 10).
6. Play the source.

Beyond the Basics

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 its 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, 4** correspond to **CH 1, CH 2, CH 3, CH 4**).
3. Set **CUE ASSIGN** to the audio input source (**1, 2, 3, 4**).
4. Set **PHONO 1/LINE 1, PHONO 2/LINE 2, LINE 3/LINE 4, or LINE 5/LINE 6** to the second input source.
5. Play the second input source.
6. Adjust the second input source's volume (**CH**) to its preset signal level. If using headphones, adjust **CUE LEVEL** (headphones volume) to a comfortable listening level.
7. Stop or pause play when you reach the section of music to mix.

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**.

Beyond the Basics

using a microphone

using an XLR microphone

To mix the XLR microphone with other audio input sources, adjust **DJ MIC LEVEL** to increase or decrease microphone volume. Set **DJ MIC LEVEL** to **0** when you are not using the DJ microphone.

using the AUX microphone

To mix the AUX microphone with other audio input sources, set **AUX MIC/LINE** to **MIC**. Adjust **AUX LEVEL** to increase or decrease microphone volume. When you are not using the AUX microphone, set **AUX MIC/LINE** to **LINE**. When set to **LINE**, you can mix the output from the device connected to the **AUX LINE MONO** jack.

using talkover

Press **TALK OVER** to reduce audio input sound so that the microphone output is heard over the music. Rotate **MUTE LEVEL** to adjust the background music volume while using talkover.

Press **TALK OVER** again to turn it off. All audio inputs, including the microphones, play at the same output level.

PAN

To play either microphone or the **AUX LINE** output on the left or right channel, adjust the **DJ** or **AUX PAN** control. Turn it to **L** to play through the left channel, to **R** to play through the right channel, or to any other position between **L** and **R** to balance sound through both channels.

using the special controls

tone

Your mixer has a set of tone controls for each microphone and channels 1–4. You can tailor the high, middle, and low frequency sounds for each.

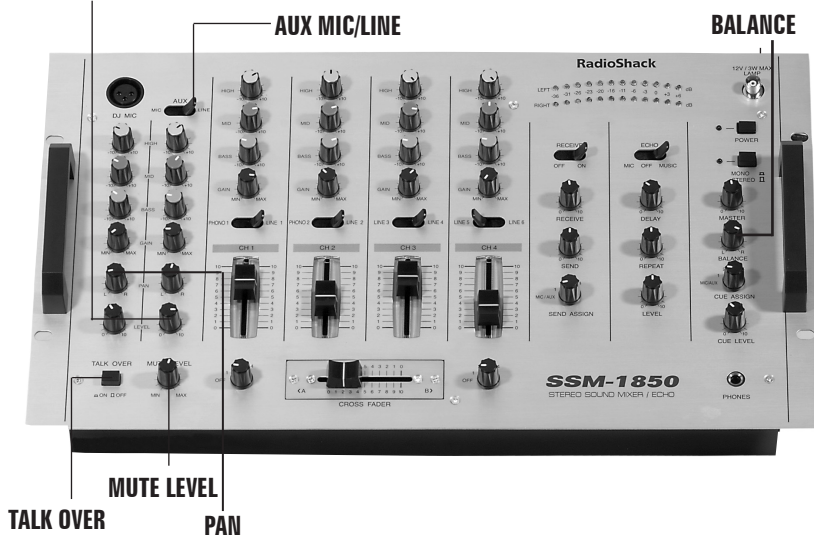
For normal sound, leave **BASS**, **MID**, and **HIGH** set to **0**.

Rotate **HIGH**, **MID**, or **BASS** toward **+10** to increase, or toward **-10** to decrease the high, middle, and low frequency sounds.

gain

Since the input level of each source is different, you can use **GAIN** to fine tune each input's volume. Rotate the desired **GAIN** control toward **MAX** to increase the volume and toward **MIN** to reduce it.

DJ MIC LEVEL AUX LEVEL



We recommend adjusting **GAIN** before presetting the inputs since some sound imbalance could occur.

Beyond the Basics

setting the sound balance

BALANCE lets you adjust the sound balance between the left and right speakers. If your speakers are properly positioned and your listening area is centered between the speakers, the center setting of the control is usually the best.

If the sound seems to be louder from one speaker, adjust **BALANCE** until the output sounds equally from both speakers.

Beyond the Basics

using echo

The mixer plays echo effects, and lets you adjust echo delay, number of echo repeats, and the echo's volume. The echo is applied to the sound before all the inputs are mixed.

1. Set **ECHO** to **MIC** to apply the echo effect to the microphones and **AUX LINE** input.
2. Set **ECHO** to **MUSIC** to apply the echo effect to the channel outputs.
3. Set **ECHO** to **OFF** to turn off the echo effect.

adjusting echo delay, repeat, and volume

ECHO DELAY lets you adjust the time interval between echoes. Set **ECHO DELAY** to **0** for minimum delay, and to **10** for maximum time delay.

ECHO REPEAT lets you control the length of time a tone is repeated (reverberation). Set **ECHO REPEAT** to **10** for the longest time repeat and to **0** for the shortest.

ECHO LEVEL lets you adjust the echo output level. Rotate **ECHO LEVEL** toward **10** to increase the echo level, and toward **0** to decrease it.

playing the signal from the sound effect device

To play signals from the device connected to the **EFFECT** jacks, set **RECEIVE** to **ON**. Rotate **RECEIVE** to adjust the volume of the device connected to the **EFFECT** jacks without changing the sound effect device's volume. Rotate **RECEIVE** toward **10** to raise the volume and toward **0** to decrease it.

When you are not using the connected inputs, set **RECEIVE** to **OFF**.

Beyond the Basics

playing input signals through the sound effect device

You can play inputs selected by the channel selectors (**DJ MIC** or **AUX**) through other sound effect devices connected to the mixer, and control playback through the mixer. To play selected inputs through the sound effect device, set **SEND ASSIGN** to the selected input.

SEND lets you adjust the volume of the selected sound effect device without changing the device's volume. Rotate **SEND** toward **10** to raise the volume and toward **0** to decrease it.

frequently asked questions

Q - I set up my mixer using the instructions. Why doesn't it work?

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 **TALK OVER** is turned **OFF**.
- 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.

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.

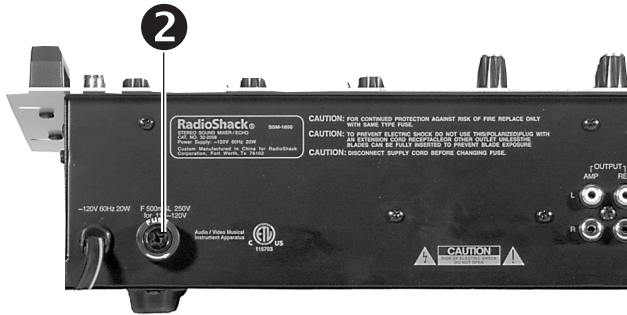
service and repair

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, $1\frac{1}{4} \times \frac{1}{4}$ 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)	1.5mV, 600 ohms, balanced/unbalanced
AUX MIC (Phone jack)	1.5mV, 600 ohms, unbalanced
Phono	3mV/50 kOhms
Line	150 mV/27 kOhms

Output Level

Main Out	2V/10 kOhms
Record	150 mV/10 kOhms
Send	150 mV/10 kOhms
Frequency Response	20~20k Hz +3 dB

S/N Ratio

Mic	55 dB
Phono	65 dB
Line	75 dB

Distortion

Mic	0.20%
Phono	0.08%
Line	0.08%

Tone Control, DJ MIC, AUX, CH 1, CH 2, CH 3, CH 4

HIGH Boost/Cut Range	±10dB at Center
MID Boost/Cut Range	±10dB at Center
BASS Boost/Cut Range	±10dB at Center
ECHO Delay Time	50~120ms
TALK OVER Attenuation	-8 to -38 dB
Power Source	AC 120V, 60Hz, 20-Watt
Power Fuse	0.5A/250 V
Dimensions (HWD)	4 ⁷ / ₁₆ x 19 x 11 inches (113 x 482 x 280 mm)
Weight	11.35 lbs 182 oz. (5.15 kg)

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

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 (DJ mic)

microphone with 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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04/04

Printed in China
32-2058
07A04



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