

# Owner's Manual **Audio System Series 500**

## **QUICK START**

## **INSTRUCTIONS**

NOTE: Read pages 2 to 20 before doing anything!

Wenger's goal is to provide a package of sophisticated, powerful audio components configured with <u>SIMPLICITY</u> in mind. The individual components are pre-wired at the factory wherever possible. All initial component settings are adjusted for you. <u>Do not change any settings</u> until you've had a chance to use the system. Unless these settings have been altered, you should be up and running in a few simple steps.

These Quick Start instructions will guide you through your audio system's setup procedures. To familiarize yourself with your audio system, we suggest that you go through each of the following steps in order. If you have any questions along the way, please feel free to contact Wenger Customer Service at 1-800-887-7145.

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#### SAFETY

Warning!

Do not use in wet or rainy conditions. Never connect the main power cord to a power source in wet conditions. Do not alter the power cord or connect the power cord to an ungrounded power source. Failure to observe this warning can result in electrical shock or death!

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## IMPORTANT USER INFORMATION

#### **GENERAL**

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In no event will Wenger Corporation be liable for technical or editorial omissions made herein, nor for direct, indirect, special, incidental, or consequential damages resulting from the use or defect of this manual.

The information in this document is not intended to cover all possible conditions and situations that might occur. The end user must exercise caution and common sense when assembling or installing Wenger Corporation products. If any questions or problems arise, call Wenger Corporation at 800-733-0393.

#### **MANUFACTURER**

The Series 500 Audio System is manufactured by:
Wenger Corporation
555 Park Drive
Owatonna, MN 55060
1-507-455-4100 • 1-800-733-0393
www.wengercorp.com

#### **INSTALLATION**

- The Wenger Series 500 Audio System use must comply with local regulations and codes.
- All personnel (including all temporary workers) using the Wenger Series 500 Audio System must read and understand this entire manual.

#### **INTENDED USE**

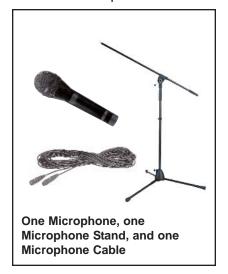
The Wenger Series 500 Audio System is intended for indoor use and outdoor use with fair weather condition changes with some limitations. The Series 500 Audio System is not intended to be used in wet or inclement weather conditions.

- Never exposure the Audio System components to wet or wet outdoor weather conditions.
- The system is **not intended to be permanently installed** in outdoor environments.
- Exposure to wet conditions causes internal moisture that damages the loudspeaker cone, corrodes electrical contacts, and presents an electrical shock hazard.
- Microphones are not intended to be used in wet conditions and must be protected from any precipitation.
- Never expose the mixer to wet conditions or any precipitation.

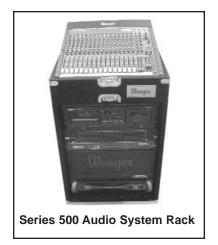
## QUICK START — BEFORE STARTING

Before starting, make sure that you have the following components (shown in photographs below and at the right.

- 1. Series 500 Audio System Rack
- 2. Two Speakers
- 3. Two Speaker Cables
- 4. Two Speaker Stands
- 5 One Microphone
- 6. One Microphone Cable
- 7. One Microphone Stand









These components are part of your basic Series 500 Audio System. The setup and operation is described in this manual and in the manufacturer's manuals that you received.

If you ordered additional components not shown above, please refer to their manufacturer's manuals for setup and operation.

A common use for your audio system is amplifying live music or speech using microphones. To get started:

1. Connect speaker cables to your speakers.

Insert the plug at either end of the cable into the speaker socket and rotate it clockwise to lock. Choose any speaker connector the cord will fit. Cable plugs must be rotated to make electrical contact.

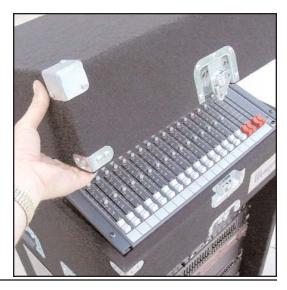


2. Remove the rear cover from the equipment rack and connect the other ends of the speaker cables to the amplifier outputs.

The amplifier is the bottom component in the rack. For now, don't worry about which amplifier output goes to which speaker. These cables won't fit anywhere else so if they are both plugged in and rotated to lock in place, you've successfully made this connection.



3. Remove the top cover from the audio rack.



4. Plug in the power cord found when you removed the rear cover.

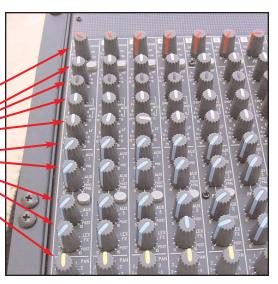
This cord connects to the power distribution unit, which in turn, powers all the other components in the rack.



5. Adjust all control knobs, buttons and faders for **CHANNEL 1** to the settings shown.

Knob Position:

11:00 12:00 7:00 12:00









 Using the microphone cable provided, connect a microphone to the mixer on CHANNEL 1



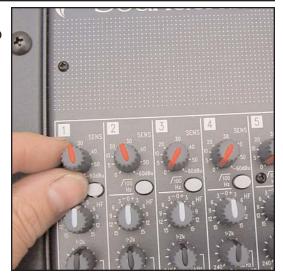


7. Remove the rack's front cover. Turn on the main power switch in the far upper-right corner of the rack.

This will provide power to all system components. All individual components should be powered up as indicated by their front-mounted indicator lights.



8. Speak or play music into the microphone and adjust the Channel 1 **GAIN** control knob so that it lights most of the green indicators on the right hand side of the mixer.



It's OK if louder inputs drive the indicators into the yellow section. However, the GAIN should NOT be set so high as to illuminate the red indicators.



Adjust the volume of this microphone using the Channel 1 Fader at the bottom LH corner of the board.

This will affect the volume of only this microphone.



10. Additional channels can be set up in the same way.

Note: When setting the gain control (step 8), only the SOLO push button for the channel being set should be depressed to send its signal to the meters. All other SOLO push buttons should be UP.



11. Once all input channels have been set up, adjust the overall volume of the mix using the faders at the lower right hand corner of the board.

These faders will adjust the volume of all inputs together.



12. When the volume is adjusted at the proper level for your venue, the MIX faders should be approximately two-thirds of the way up. If the volume at this setting is too high or low, adjust the amplifier gain knobs (located at the bottom right-hand corner of the rack) to achieve the desired overall volume with the MIX faders in that position.

Turning the GAIN control knobs clockwise will increase the volume. Turning counterclockwise will decrease the volume. (Both GAIN control knobs should be set the same.) This step will minimize the amount of noise heard through the speakers during



quiet music passages, between speeches or anytime inputs are low.

Congratulations! Your system should be ready to amplify your next program.

<u>If your audio system does NOT amplify as expected</u>, any of a number of cable connections or settings may have been inadvertently changed. Detailed instructions for proper connections and optimum settings can be found in this manual. Please refer to the table of contents on the cover page for guidance.

Even if your system is playing, there are likely some adjustments in you may want to make. Detailed instructions for further fine-tuning the system can be found on pages 22 to 32 in this manual and in the manufacturer's operation manuals contained in the binder. Please refer to the table of contents on the cover page for more information.

## QUICK START — CD PLAYBACK

**Note:** The following Quick Start instructions apply if you have a *Wenger Model 502*Audio System containing a CD/cassette player/recorder.

1. Adjust the control knob and push buttons for the **2TK LEVEL** to the settings shown.

Leave all other controls adjusted as they were when you set up your amplification system using the Microphone Amplification Quick Start procedure. You may adjust the microphone channel faders all the way down to turn off the microphones if desired.

 Press the OPEN/CLOSE push button and insert a pre-recorded CD into the CD-RW/Cassette Player/Recorder. Press the OPEN/CLOSE push button again to close the CD drawer.





3. Press the **PLAY** push button.

The CD player should now be playing through the speakers. You should also notice movement of the meters on the CD-RW/Cassette Player/Recorder display.



## QUICK START — CD PLAYBACK

4. Depress the **2TK MONITOR** push button so a signal is sent to the meters.

Only the **2TK MONITOR** push button should be depressed to send a signal to the meters. All other **SOLO** push buttons should be UP.



 Adjust the 2TK LEVEL control knob so that the input signal lights most of the green indicators on the right hand side of the mixer.



It's OK if louder inputs drive the indicators into the yellow section. However, the GAIN should NOT be set so high as to illuminate the red indicators. (This setting can vary from one CD to another CD.)



## QUICK START — CD PLAYBACK

Adjust the playback volume using the 2TK
 LEVEL Control Knob together with the main
 mix faders located on the lower-right corner
 of the mixer.



The **2TK LEVEL** Control Knob will change the volume of the CD playback, only. The main mix faders will affect the volume of the CD playback and any other input to the board. (...like the microphones set up earlier.)

Do not turn the **2TK LEVEL** Control Knob above the setting established in step 5.



<u>If your audio system does NOT play as expected</u>, any of a number of cable connections or settings may have been inadvertently changed. Detailed instructions for proper connections and optimum settings can be found in this manual. Please refer to the table of contents on the cover page for guidance.

Even if your system is playing, there are likely some adjustments in you may want to make. Detailed instructions for further fine-tuning the system can be found on pages 22 to 32 in this manual and in the manufacturer's operator's manuals contained in the binder. Please refer to the table of contents on the cover page for more information.

## QUICK START — CASSETTE PLAYBACK

Cassette playback is controlled by the **RET 1** control knob.

Cassette player controls are on the left side of the player.



- 1. Set the Red RET 1 control knob and push buttons to the positions shown.
- Press the EJECT push button on the cassette player, insert a pre-recorded cassette, close the door and press PLAY.
- 3. Adjust the volume with the Red RET 1 control knob and the Main L MIX R Faders.

The Red RET 1 Control Knob will change the volume of the cassette playback only. The Main Mix Faders will affect the volume of the cassette playback <u>and</u> any other input to the board. (...such as the microphones set up earlier.)



## QUICK START — CD RECORDING

Now that you have successfully set up microphones for amplification and are able to playback pre-recorded materials, the next step is to record your program.

Because your audio system was shipped from the factory ready for CD recording, we recommend that you start by experimenting with recording on CD's. As you become more familiar with your system, you can make the wiring changes outlined later in this section and record on cassette tapes.

 Press the OPEN/CLOSE push button on the CD player/recorder and insert a blank, recordable CD. Press the OPEN/CLOSE push button again to close the CD drawer.



After a few seconds the CD player/recorder's display will read:

0 Tr 0:00



 Press the RECORD button on the CD recorder. After a few seconds, the first available track will be queued and ready for recording.

If the CD was blank, the display will read:

1 Tr 0:00

If the CD was not blank, the first number will be that of the next available track.



## QUICK START — CD RECORDING

3. With the program source playing (this could be from the cassette player, instrument pickups and/or the microphone inputs), adjust the **INPUT** level to the CD recorder.

Adjust the input level knob while watching the level indicators on the CD recorder display. They should pulse across the display screen to the right as far as possible without illuminating the red **OVER** indicator.

If the program source is through the mixer, moving the Mix Faders will increase or decrease the signal level.

4. Press PLAY to begin recording.

Record your program.





## QUICK START — CD RECORDING

5. Press **STOP** when recording is complete.
The CD Recorder will write to the CD for a few seconds and then display the number of the last track recorded and its total length.
Recording is now complete.

This recording can now be played on this CD recorder/player. Without further processing, your recording may not yet be ready to be played on other CD players. To use this disk in other CD Players, the CD must be finalized.

To finalize the CD, press the **FINALIZE** push button and then press the **MULTI-DIAL** push button. The display will count down for the time remaining for finalization.



<u>If your audio system does NOT play as expected</u>, any of a number of cable connections or settings may have been inadvertently changed. Detailed instructions for proper connections and optimum settings can be found in this manual. Please refer to the table of contents on the cover page for guidance.

Even if your system is playing, there are likely some adjustments in you may want to make. Detailed instructions for further fine-tuning the system can be found on pages 22 to 32 in this manual and in the manufacturer's operator's manuals contained in the binder. Please refer to the table of contents on the cover page for more information.

## RECORDING TIPS FOR A CASSETTE VS A CD

The Wenger Model 502 Audio System has recording capabilities for both cassettes and CD's. If configured as recommended in this manual, the system will play both CD's and cassettes. However, changing between recording on CD and cassette tape media requires altering the system's wiring.

#### **CD-RW RECORDING**

	Function		
Device	Playback	Record	
CD/RW	17	5	
Cassette	73		

As supplied from Wenger, this system is ready for CD-RW recording (and playback.) In this configuration, the Cassette deck is playback, only.

#### CASSETTE RECORDING

	Function		
Device	Playback	Record	
CD/RW	17		
Cassette	17	13	

This system can be easily rewired for cassette recording. In this configuration, system is ready for both Cassette recording (and playback). The CD-RW drive is playback, only.

## CHANGING THE RECORDING DEVICE

To change from CD recording to cassette recording (and back again), simply change the Line Input cable connections at the Input of the CD-RW/Cassette recorder. (The Line Input cable runs from the mixer MONO SUM connection to the CD-RW/Cassette recorder.



If you want to record on a CD, connect the input cable to **LINE INPUTS 1**. (As supplied from Wenger)

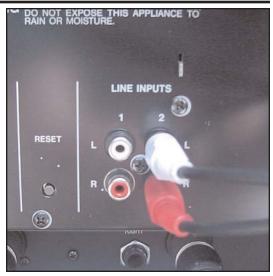


If you want to record on a Cassette, connect the input cable to LINE INPUTS 2.



## **QUICK START — CASSETTE RECORDING**

 To set up the system for cassette recording, connect the input cable running from the REC OUT of the mixer to LINE INPUTS 2 of the CD-RW/Cassette recorder.



2. Press the **EJECT** push push button on the cassette player/recorder and insert a blank cassette. Push the door closed.



3. Press **RECORD**.

You should see the red REC symbol and PAUSE symbol illuminated in the upper left hand corner of the display.



## QUICK START — CASSETTE RECORDING

4. With the program source playing (this could be from the CD player, instrument pickups and/or the microphone inputs), adjust the **INPUT** level control to the CD recorder.

Adjust the input level knob while watching the level indicators at the top of the cassette recorder display. They should pulse across the display screen to the right as far as possible without illuminating the red **OVER** indicator.



5. Press **PLAY** to begin recording.

The tape counter should begin to count up indicating that the tape is recording.

- 6. Press **STOP** when recording is complete.
- 7. Rewind back to the beginning of the tape and play it back using the cassette playback instructions above.

<u>If your audio system does NOT play as expected</u>, any of a number of cable connections or settings may have been inadvertently changed. Detailed instructions for proper connections and optimum settings can be found in this manual. Please refer to the table of contents on the cover page for guidance.

Even if your system is playing, there are likely some adjustments in you may want to make. Detailed instructions for further fine-tuning the system can be found on pages 22 to 32 in this manual and in the manufacturer's operator's manuals contained in the binder. Please refer to the table of contents on the cover page for more information.



## IMPORTANT USER INFORMATION

#### **INTENDED USE**

The Audio System Series 500 is intended for indoor use or outdoor use with fair weather conditions.

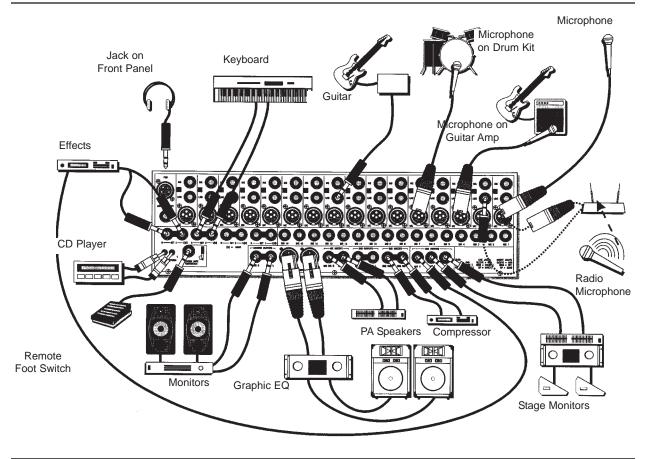
- Never exposure the Audio System components to wet or wet outdoor weather conditions.
- The system is not intended to be permanently installed in outdoor environments.
- Exposure to wet conditions causes internal moisture that damages the loudspeaker cone, corrodes electrical contacts, and presents an electrical shock hazard.
- Microphones are not intended to be used in wet conditions and must be protected from any precipitation.
- Never expose the mixer to wet conditions or any precipitation.

#### **OPERATION INFORMATION**

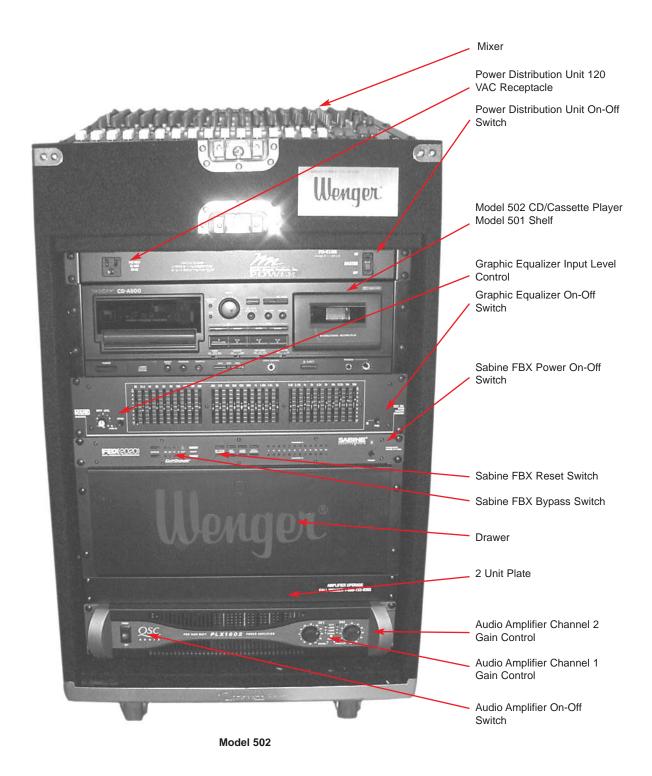
The following pages contain detail information regarding the set up, operation, replacement parts, and warranty.

If you have questions or problems, contact Wenger Corporation Customer Service by telephone, email, or by writing to the address on the cover page.

## **CONNECTION DIAGRAM**

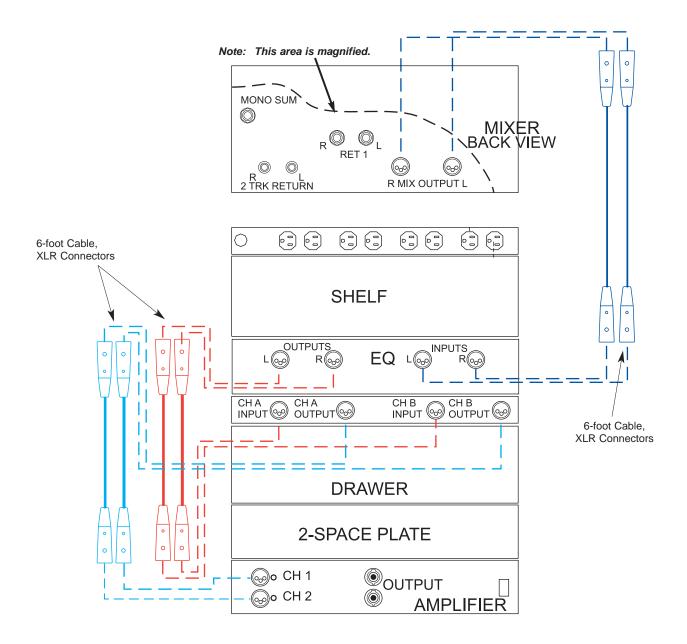


## **AUDIO SYSTEM FRONT PANEL**



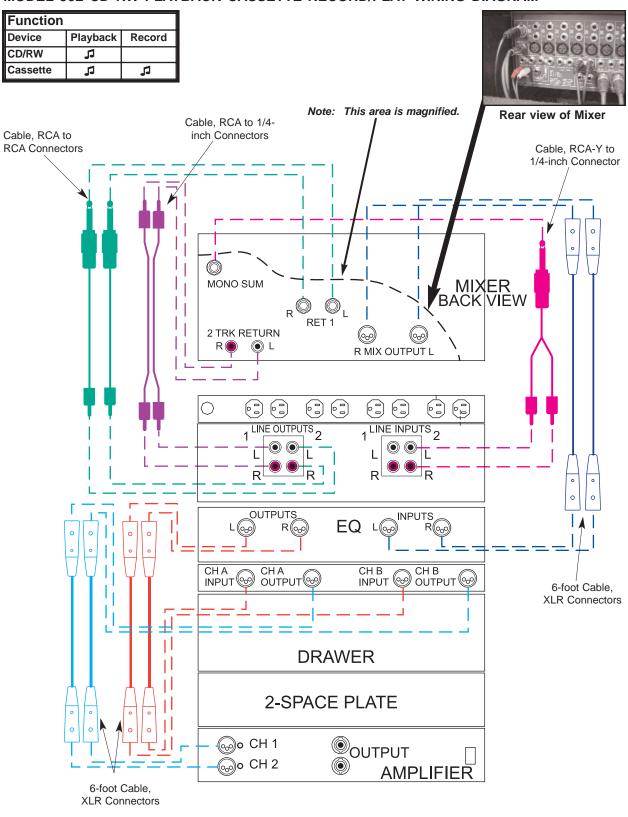
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#### **MODEL 501 WIRING DIAGRAM**



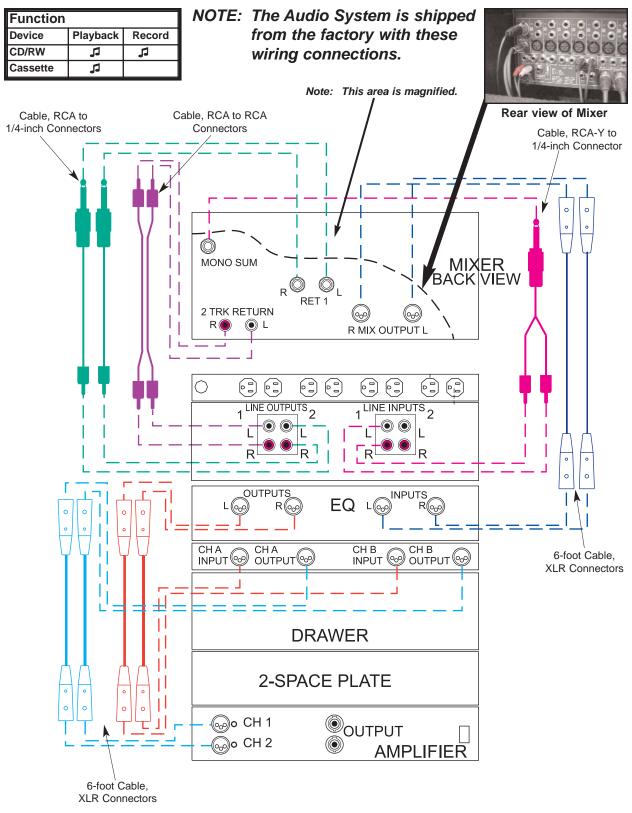
## WIRING DIAGRAM CONTINUED

#### MODEL 502 CD-RW PLAYBACK-CASSETTE RECORD/PLAY WIRING DIAGRAM



## WIRING DIAGRAM CONTINUED

## MODEL 502 CD-RW RECORD/PLAYBACK - CASSETTE PLAYBACK WIRING DIAGRAM



## **SYSTEM SETTINGS**

#### **BEFORE OPERATING**

Refer to the Audio System Mixer Users Guide for additional information regarding set up and component connections.

- 1. Make sure the Audio System Power Distribution Unit **on-off** Switch is in the **off** Position.
- 2. Connect a power cord from the Power Distribution Unit to a grounded, 120 VAC power source. All components are powered by this component.
- 3. Connect the Amplifier **CHANNEL 1 OUTPUT** connector to a Loudspeaker **INPUT** connector and the Amplifier **CHANNEL 2 OUTPUT** connector to the other Loudspeaker **INPUT** connector with the 50-foot speaker cables.
- 4. Make sure that the Mixer, Graphic Equalizer, Feedback Exterminator, Amplifier, and other component power switches are **OFF** and the Mixer and Amplifier level controls are set to the lowest levels. Refer to the Audio System Owner's Manual for additional information.
- 5. Connect the power cords from the Mixer, Graphic Equalizer, Feedback Exterminator, and Amplifier to the Power Distribution Unit.
- 6. Place the speakers and microphones where they will be used during the performance. Avoid placing microphones directly in front of speakers.

#### MIXER TO GRAPHIC EQUALIZER CONNECTIONS

Make sure that the Power Distribution Unit **ON-OFF** switch and the Graphic Equalizer **ON-OFF** switch is **OFF** before connecting any cables. Refer to the wiring diagram on page 4.

- Using a six-foot XLR Cable, connect the Mixer MIX R Connector to Graphic Equalizer INPUT R
  Connector.
- Using a six-foot XLR Cable, connect the Mixer MIX L Connector to Graphic Equalizer INPUT L Connector.

#### GRAPHIC EQUALIZER TO FEEDBACK EXTERMINATOR CONNECTIONS

Make sure that the Power Distribution Unit **ON-OFF** switch and the Feedback Exterminator **ON-OFF** switch is **OFF** before connecting any cables. Refer to the wiring diagram on page 24.

- 1. Using a six-foot XLR Cable, connect the Graphic Equalizer **OUTPUT R** Connector to the Feedback Exterminator **CHANNEL A INPUT** Connector.
- 2. Using a six-foot XLR Cable, connect the Graphic Equalizer **OUTPUT L** Connector to the Feedback Exterminator **CHANNEL B INPUT** Connector.

#### FEEDBACK EXTERMINATOR TO AMPLIFIER CONNECTIONS

Make sure that the Power Distribution Unit **ON-OFF** switch and the Amplifier **ON-OFF** switch is **OFF** before connecting any cables. Refer to the wiring diagram on page 24.

- Using a six-foot XLR Cable, connect the Feedback Exterminator CHANNEL A OUTPUT Connector to Amplifier CH 1 Connector.
- 2. Using a six-foot XLR Cable, connect the Feedback Exterminator **CHANNEL B OUTPUT** Connector to Amplifier **CH 2** Connector.

#### CD-RW PLAYBACK AND CASSETTE RECORD/PLAYBACK CONNECTIONS

Note: LINE OUTPUTS 1 connect to the CD-RW Recorder.

**LINE OUTPUTS 2** connect to the Cassette Deck and the CD-RW Recorder. If both are playing, the Cassette Deck has priority and the CD-RW Recorder is not heard.

Note: LINE INPUTS 1 connect to the CD-RW Recorder.

LINE INPUTS 2 connect to the Cassette Deck

## SYSTEM SETTINGS CONTINUED

#### CD-RW PLAYBACK AND CASSETTE RECORD/PLAY CONNECTIONS CONTINUED

Make sure that the Power Distribution Unit **ON-OFF** switch is off before connecting any cables. Refer to the wiring diagram on page 25.

- 1. Using a RCA/Phono Internal Patch Cable, connect the CD-RW RCA Connector LINEOUT 2 R and LINEOUT 2 L to the Mixer RCA Connector RET 1 R and RET 1 L.
- 2. Using a RCA/Phono to 1/4-inch Mono-Y Internal Patch Cable, connect the Mixer 1/4-inch Connector MONO SUM to Cassette RCA Connector LINE INPUTS 2 R and LINE INPUTS 2 L.
- 3. Using a RCA/Phono Internal Patch Cable, connect the Cassette RCA Connector LINEOUT 1 R and LINEOUT 1 L to Mixer RCA Connector 2 TRACK RET R and 2 TRACK RET L.
- 4. Connect the Power Cord from the CD-RW Recorder/Cassette Deck to an unused receptacle on the Power Distribution Unit.

#### CD-RW RECORD/PLAYBACK AND CASSETTE PLAYBACK CONNECTIONS

Note: LINE OUTPUTS 1 connect to the CD-RW Recorder.

**LINE OUTPUTS 2** connect to the Cassette Deck and the CD-RW Recorder. If both are playing, the Cassette Deck has priority and the CD-RW Recorder is not heard.

Note: LINE INPUTS 1 connect to the CD-RW Recorder.

LINE INPUTS 2 connect to the Cassette Deck

Make sure that the Power Distribution Unit **ON-OFF** switch is off before connecting any cables. Refer to the wiring diagram on page 26.

- 1. Using a RCA/Phono Internal Patch Cable, connect the CD-RW RCA Connector LINEOUT 1 R and LINEOUT 1 L to the Mixer RCA Connector 2 TRACK RET R and 2 TRACK RET L.
- 2. Using a RCA/Phono to 1/4-inch Mono-Y Internal Patch Cable, connect the Mixer 1/4-inch Connector MONO SUM to Cassette RCA Connector LINE INPUTS 1 R and LINE INPUTS 1 L.
- 3. Using a RCA/Phono Internal Patch Cable, connect the Cassette RCA Connector LINEOUT 2 R and LINEOUT 2 L to Mixer RCA Connector RET 1 R and RET 1 L.
- 4. Connect the Power Cord from the CD-RW Recorder/Cassette Deck to an unused receptacle on the Power Distribution Unit.

#### **CHANGE RECORD FUNCTION**

To change from CD-RW recording to Cassette recording (or back again), reverse the cables on the back of the CD-RW/Cassette recorder as follows.

 Swap the cables in LINEOUT 1 R and LINEOUT 1 L and LINEOUT 2 R and LINEOUT 2 L (the cables in LINEOUT 1 R and LINEOUT 1 L are now in LINEOUT 2 R and LINEOUT 2 L). Likewise, the cables in LINEOUT 2 R and LINEOUT 2 L are now in LINEOUT 1 R and LINEOUT 1 L.

#### **INITIAL SETTINGS**

- 1. Make sure that the Mixer, Graphic Equalizer, Feedback Exterminator, Amplifier, and CD-RW/Cassette power switches are in the **OFF** position.
- 2. Set the Amplifier CHANNEL 1 and CHANNEL 2 GAIN controls to 25 percent.
- 3. Set the Mixer as follows.
  - a. Turn the **SENS** at each channel (red knob) fully counterclockwise.
  - b. Move the Faders to 0.
  - c. Set the **MASTER VOLUME** (yellow sliders) to 0.
  - d. Press the PFL push button in the master section.

**Note:** Make sure that the **SOLO** push button (above each Fader slide switch) is in the up position.

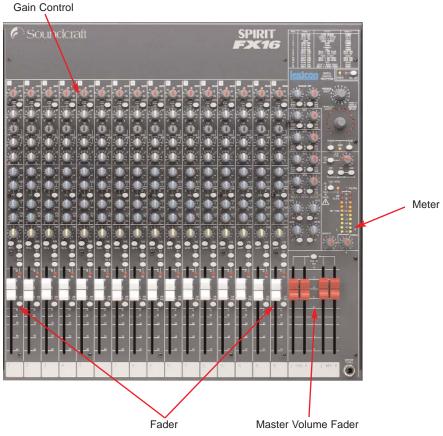
4. Set the Graphic Equalizer **INPUT LEVEL** to the center detent (0 dB) and all sliders to the center detent (0 dB) and the **BYPASS** push button in the up position (EQ Active).

## SYSTEM SETTINGS CONTINUED

5. Set the Feedback Exterminator **ACTIVE/BYPASS** switches to the up position (places both Feedback Exterminator channels into the **BYPASS** mode).

## POWER UP THE AUDIO SYSTEM

- Place the Power Distribution Unit power switch into the ON position.
- Make sure that the program sources (microphone, CD-RW/Cassette player, musical instruments) are present at the appropriate input channels.
- Power up the Mixer, audio sources, and musical instruments.
   Refer to the component manufacturer's User Guides for additional operating information.
- 4. For Model 502, press the CD-RW
  Recorder/Cassette Deck
  POWER push button.
- 5. Apply a signal to the system at performance levels.
- 6. Turn on power to the QSC Amplifier. The yellow **CHANNEL 1 SIGNAL** and **CHANNEL 2 SIGNAL** LEDs will illuminate if channel input signals are detected.
- 7. Turn on the Graphic Equalizer.
- 8. Press the Feedback Exterminator **POWER** push button. The **POWER** LED will illuminate. The red **BYPASS** LED for both channels will illuminate.
- 8. On the Mixer first channel with an input:
  - a. Press the **SOLO** push button.
  - b. Turn the **SENS CONTROL** (red knob) clockwise until the Meter display is in the amber section with occasional peaks to the first red LED.
  - c. Release the **SOLO** push button (place into the upper position).
  - d. Repeat steps 8a, 8b, and 8c on any other input channels.
  - e. Adjust the Master Volume Fader (MIX R and MIX L) two-thirds of the way up to 15.
  - f. If feedback is detected, reduce the Amplifier gain.
- 9. On the Amplifier:
  - Adjust the Amplifier CHANNEL 1 and CHANNEL 2 GAIN controls until the desired loudspeaker volume is achieved.
  - b. Make sure that the **CHANNEL 1** and **CHANNEL 2 CLIP** LEDs are not illuminated. Occasional flashes are normal for very loud operation. However, if a **CHANNEL 1 CLIP** or **CHANNEL 2 CLIP** LED stays illuminated, reduce the **CHANNEL 1 GAIN** or **CHANNEL 2 GAIN** level.
  - c. Once the Amplifier Gain is set, adjust the system volume with the Master Faders.



## SYSTEM SETTINGS CONTINUED

- 10. Make sure that the program sources (microphone, CD-RW/Cassette player, musical instruments) are present at the appropriate input channels.
- 11. Adjust the Graphic Equalizer sliders to achieve the desire sound quality.
- 12. Press the Graphic Equalizer **BYPASS** switch in and out and adjust **INPUT LEVEL** so that the output level is equal when the **BYPASS** switch is pressed in and out.
- 13. Adjust the Feedback Exterminator as follows. (An active microphone must be in the system.)
  - a. Press and hold the Feedback Exterminator **RESET** push button on one channel until the rows of LED's for that channel flash seven times (resetting all filters). The **CLIP** LED will flash. Release the **RESET** push button. Repeat this procedure for the other channel.
  - b. Press the **BYPASS** push button on one channel of the Feedback Exterminator (placing it into the ACTIVE mode). The **BYPASS** LED will turn off.
  - c. Slowly increase the Mixer **MASTER VOLUME** slider **only** for the channel being set until feedback occurs. You will hear the Feedback Exterminator eliminate the feedback. The first LED will blink indicating that this filter has been set.
  - d. Continue to <u>very slowly</u> increase the **MASTER VOLUME** until all filters are set in the same way. The **CLIP** LED will automatically stop flashing. The filter LED's will scroll back and forth indicating that this procedure has been successfully performed.
  - e. Decrease the **MASTER VOLUME** so that the system is not on the verge of another feedback frequency.
  - f. Press the LOCK FIXED push button for this channel to save these settings.
  - g. To set the other channel of the Feedback Exterminator, press the **BYPASS** push button (placing it into the ACTIVE mode). The **BYPASS** LED will turn off.
  - h. Repeat steps 13b to 13f to complete the Feedback Exterminator setup.

## **TROUBLESHOOTING**

Refer to each manufacturer's owner manual in the binder for detailed troubleshooting information.

- 1. Verify all cables are firmly connected.
- 2. Verify power is supplied to all components. Are there visible lights on each component?
- 3. Verify channels on the power amplifier are turned up. They should be set about three-quarters of the way up (turned clockwise).
- 4. Verify mixer settings are set so that volume sources are loud enough to hear an audible signal.

## MANUFACTURER'S OWNER MANUALS

The following manufacturer's owner manuals are contained in this binder.

- Spirit FX16 Users Guide
- Community XLT Series Quick Start Up
- Middle Atlantic Products, Inc. Rackmount Power Strip
- QSC Audio PLX™ Series Amplifier Users Manual
- Sabine FBX® 2020 Dual Feedback Exterminator Operating Guide
- Rane SEQ 30L Stereo Graphic Equalizer Operators Manual

## REPLACEMENT PART LIST

Model 501	el 501 Qty Model 502		Qty	
Rack-mounted Components:		Rack-mounted Components:		
Rack-mountable Case	1	Rack-mountable Case	1	
Caster, Swivel	2	Caster, Swivel	2	
Caster, Swivel, lockable	2	Caster, Swivel, lockable	2	
Mixer, 16 channel	1	Mixer, 16 channel	1	
Power Distribution Unit	1	Power Distribution Unit	1	
Shelf, rackmountable, 5-1/4"	1	CD Player/Cassette Player Recorder	1	
Graphic Equalizer	1	Graphic Equalizer	1	
Feedback Extermination Unit	1	Feedback Extermination Unit	1	
Drawer, rackmountable, 7"	1	Drawer, rackmountable, 7-inches	1	
Power Amplifier	1	Power Amplifier	1	
Speaker/Microphone Stand Storage Bag	1	Speaker/Microphone Stand Storage Bag	1	
Blank Panel, 1-3/4"	1	Blank Panel, 1-3/4-inch	1	
Blank Panel, 3-1/2"	1	Blank Panel, 3-1/2-inch	1	
Cable, internal patch, 1 ft, XLR Connectors	2	Cable, internal patch, 1/4" to RCA Connectors	2	
Cable, internal patch, 3 ft, XLR Connectors	4	Cable, internal patch, RCA to RCA Connectors	1	
Rackscrew, washer, 3/4"	40	Cable, internal patch, 1/4" Y-Mono to RCA	1	
		Cable, internal patch, XLR Connectors, 1-foot	2	
		Cable, internal patch, XLR Connectors, 3-feet	4	
		Rackscrew, washer, ¾-inch	40	
Speaker Kit (2):		Speaker Kit (2):		
Loudspeaker, LF 1 x 15", 3-way	ker, LF 1 x 15", 3-way 1 Loudspeaker, LF 1 x 15", 3-way		1	
Cable, 50 ft, Neutrik Speakon Connectors	1 Cable, 50 ft, Neutrik Speakon Connectors		1	
Loudspeaker dust cover	1	Loudspeaker dust cover	1	
Speaker Stand		Speaker Stand:		
Adjustable tripod speaker stand	2	Adjustable tripod speaker stand	2	
Microphone Set:		Microphone Set:		
Microphone, dynamic	1	Microphone, dynamic	1	
Tripod microphone stand with boom	1	Tripod microphone stand with boom	1	
Cable, 16 ft, XLR connectors	1	Cable, 16 ft, XLR connectors	1	

## **WARRANTY**

Wenger Corporation will act as a contact and provide support for the Audio System. Call Wenger Corporation Customer Service with any questions or problems at 1-800-887-7145. While Wenger Corporation will coordinate customer service with each component manufacturer, the manufacturer of each Audio System component is responsible for that component warranty. The front pocket of the Owner's Binder, located in the Audio System Drawer, contains several manufacturer's warranty cards. It is important that these warranty cards are filled out with serial numbers and registered with each manufacturer within 30 days after receipt of the system. The warranty for each component is as follows:

Component	<u>Warranty</u>	<b>Extended Warranty</b>
Community Speakers	5 Years	NA
Soundcraft/Spirit Mixing Console	1 Year	NA
QSC Amplifier	1 Year	3 Years
Rane Equalizer	2 Year	3 Years
Sabine Feedback Extermination Unit	1 Year	NA
Tascam CD/Cassette Player	1 Year	NA