Thank you for purchasing a Wenger Audio System FBX Upgrade Kit. This document serves as a quick start guide. The instructions and illustrations in this document apply to the Audio System Series 300 and Series 400. Please refer to each manufacturer’s owner’s manual for additional information. Please contact Wenger Corporation Customer Service with any questions at 1-800-887-7145.

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Questions? Call: USA: (800) 733-0393 • International (call collect): (507) 455-4100 • www.wengercorp.com
WARRANTY

Wenger Corporation will act as a contact and provide support for the Audio System FBX Upgrade Kit. Call Wenger Corporation Customer Service with any questions or problems at 1-800-887-7145. While Wenger Corporation will coordinate customer service with the component manufacturer, the manufacturer of the Audio System FBX Upgrade Kit component is responsible for that component warranty. There is a manufacturer’s warranty card accompanying this manual. It is important to fill out this warranty card and register it with the manufacturer within 30 days after receipt of the system.

The warranty for each component is as follows:

<table>
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<tr>
<th>Component</th>
<th>Warranty</th>
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<tr>
<td>Sabine FBX2020Plus Feedback Exterminator</td>
<td>1 Year</td>
</tr>
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INSTALLATION

AUDIO SYSTEM SERIES 300 AND 400 CONNECTION DIAGRAM

- Disconnect the Amplifier from the Graphic Equalizer and connect it to the Feedback Exterminator.
- Insert the Sabine FBX2020 Feedback Exterminator into this Rack after removing the 1-space Plate.
INSTALLATION CONTINUED

BEFORE STARTING INSTALLATION
1. Insert this manual and the manufacturer’s Owner’s Manual (included in the shipping carton) into the Audio System Binder that came with the Audio System.
2. Please read and understand this entire document.
3. Refer to the illustrations on the following pages. If you need additional information about your Audio System FBX Upgrade Kit, write, telephone or email Wenger Corporation.
4. Refer to the Manufacturer’s documentation for addition operation information.
5. Fill out the Sabine Feedback Exterminator warranty card with the serial number and mail to the Manufacturer. The warranty card must be registered with the manufacturer within 30 days of receipt of the Audio Series FBX Upgrade Kit.
6. Before starting the installation, disconnect power from the Audio System Power Distribution Unit (remove the power cord from the 120VAC power source).

INSTALL THE FEEDBACK EXTERMINATOR
Refer to the Connection Diagram on page 2 showing the finished position of the Feedback Exterminator and how it is connects to the Audio System.
1. Remove the Screws that attach the 1-Unit Plate to the Audio System Rack. Set aside the 1-space Plate and the Screws.
2. Insert the Feedback Exterminator into the Rack in place of the 1-space Plate (just below the Graphic Equalizer).
3. Attach the Feedback Exterminator to the Rack with four Screws (10-32x3/4") contained in the hardware bag.

CONNECT THE FEEDBACK EXTERMINATOR TO THE AUDIO SYSTEM
1. Remove the pair of Internal Cables connecting the Graphic Equalizer CHANNEL 1 OUTPUT and CHANNEL 2 OUTPUT to the Amplifier CHANNEL 1 INPUT and CHANNEL 2 INPUT connectors from the Graphic Equalizer.
2. Insert the cables from the Amplifier CHANNEL 1 INPUT and CHANNEL 2 INPUT to the Feedback Exterminator CHANNEL A OUTPUT and CHANNEL B OUTPUT connectors.
3. Using a pair of Internal Cables, connect the Graphic Equalizer CHANNEL 1 OUTPUT and CHANNEL 2 OUTPUT connectors to the Feedback Exterminator CHANNEL A INPUT and CHANNEL B INPUT connectors.
4. Connect the Power Cord from the Feedback Exterminator to an unused receptacle on the Power Distribution Unit.
OPERATION

BEFORE OPERATING
Refer to the Audio System Owner’s Manual and 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.
4. Make sure that the Amplifier, the Graphic Equalizer, and the Feedback Exterminator are connected as outlined on page 3, Connect the Feedback Exterminator to the Audio System, steps 1 to 4.
5. Make sure that the Mixer, Graphic Equalizer, and Amplifier power switches are OFF and the level controls are set to the lowest levels. Refer to the Audio System Owner’s Manual for additional information.
6. Place the speakers and microphones where they will be used during the performance. Avoid placing microphones directly in front of speakers.

INITIAL FEEDBACK EXTERMINATOR SETTINGS
1. Make sure that both ACTIVE/BYPASS switches are in the up position (places both Feedback Exterminator channels into the BYPASS mode).
2. Place the POWER push button into the OFF position (the upward position).

POWER UP THE AUDIO SYSTEM
1. Power up the system as follows.
   a. Turn the Power Distribution Unit power switch ON.
   b. Power up the mixer, graphic equalizer, audio sources, and musical instruments. Refer to the Audio System Owner’s Manual and other component manufacturer’s User Guides for operating information.
   c. Press the Feedback Exterminator POWER push button. The POWER LED will illuminate. The red BYPASS LED for both channels will illuminate.
   c. Power up the Amplifier.

FEEDBACK EXTERMINATOR SET UP
1. Make sure that all system microphones are ON. Adjust all Audio System components for proper performance balance while maintaining lower, pre-feedback master volumes.
2. Set the Audio System's master volume to the minimum position.
3. Press and hold the Feedback Exterminator RESET push button on one channel until the rows of...
OPERATION CONTINUED

FEEDBACK EXTERMINATOR SET UP CONTINUED

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.
4. Press the BYPASS push button on one channel of the Feedback Exterminator (placing it into the
ACTIVE mode). The BYPASS LED will turn off.
5. Slowly increase the Audio System's master volume 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.
6. Continue to very slowly increase the master volume until 10 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.
7. Decrease the master volume so that the system is not on the verge of another feedback frequency.
8. Press the LOCK FIXED push button for this channel to save these settings.
9. 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.
10. Repeat steps 5 to 8 to complete the Feedback Exterminator setup. The Audio System should now
be capable of operating at increased volumes without feedback.

TROUBLESHOOTING

Refer to the 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 MANUAL

The following manufacturer’s owner manual is contained in this binder.
• Sabine FBX®2020Plus Dual Feedback Exterminator Operating Guide

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Audio System Series 400 Stage Monitor Option</th>
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<tr>
<td>Sabine FBX®2020Plus Feedback Exterminator</td>
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<td>Internal Cables, XLR connectors</td>
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<tr>
<td>Screw, 10-32x3/4“</td>
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