



MODEL 112

4-CHANNEL INSTRUMENT AMPLIFIER

User Guide

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User Guide

Introduction

Box Contents

Model 112

Power Cable

Quickstart Guide

Safety & Warranty Manual

Support

For the latest information about this product (system requirements, compatibility information, etc.) and product registration, visit moogmusic.com.

For additional product support, visit moogmusic.com/support.

Setup

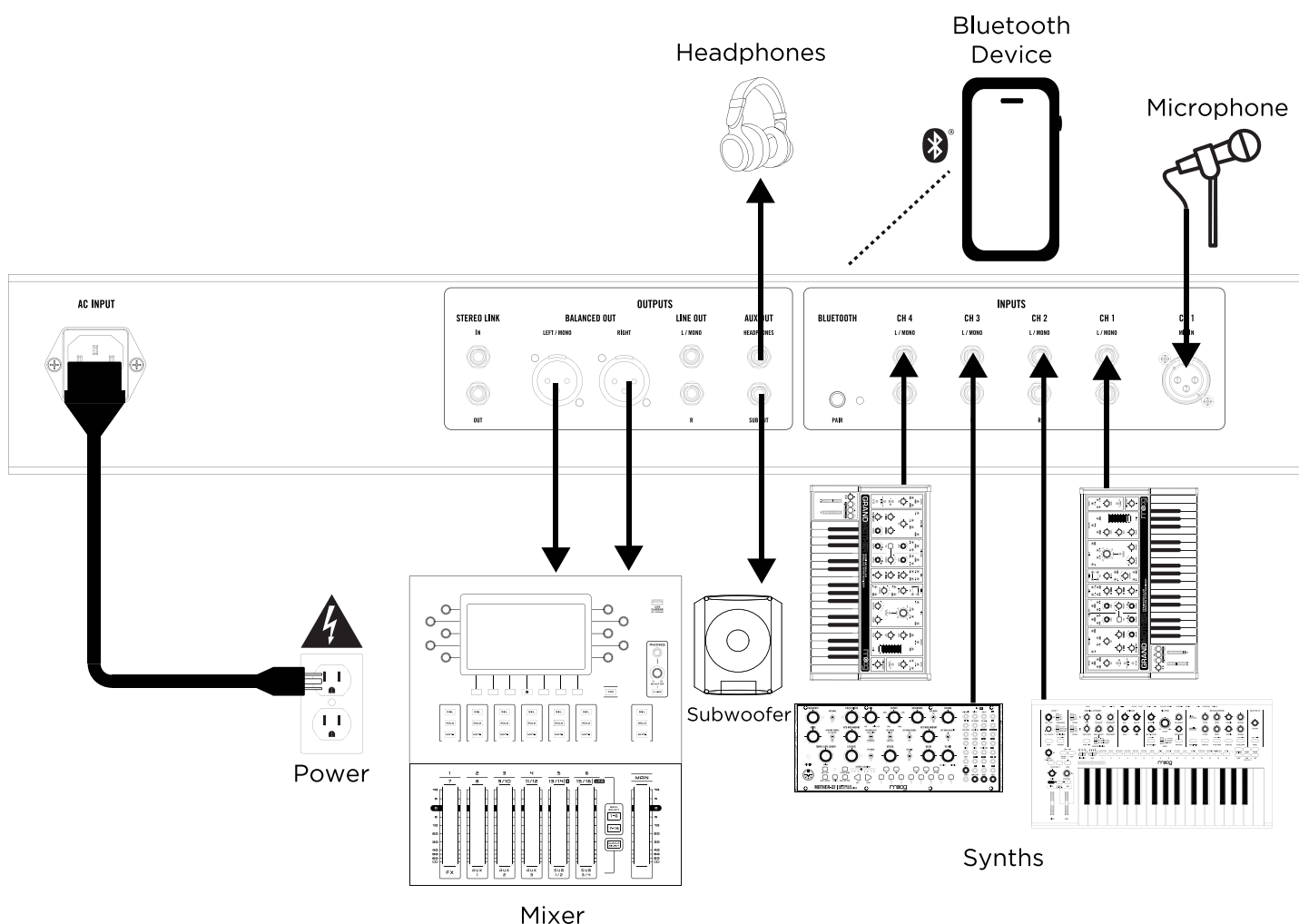
Getting Started

1. Plug the included IEC power cable into the power input on the rear of your Moog Model 112 and the other end into an AC outlet.
2. Turn the **Equalizer knobs** to the 12 o'clock position to start.
3. With the **Volume controls** turned all the way down, power on Model 112 via the front **Power switch**.
4. Connect the line output of a synth or mixing console to Model 112's CH 1 - CH 4 inputs or connect a non-phantom powered microphone to the CH 1 Mic In on the rear panel.

Note: The channel inputs are designed for line-level instruments, such as a keyboard. If you are using an instrument that is not line-level, the signal level will be low. Connect the instrument through a suitable preamplifier, active DI box, or other device to provide proper impedance matching and signal level.

5. Then, slowly turn up the front panel Mixer CH 1 - CH 4 knobs and the Output Volume knob to your desired level.

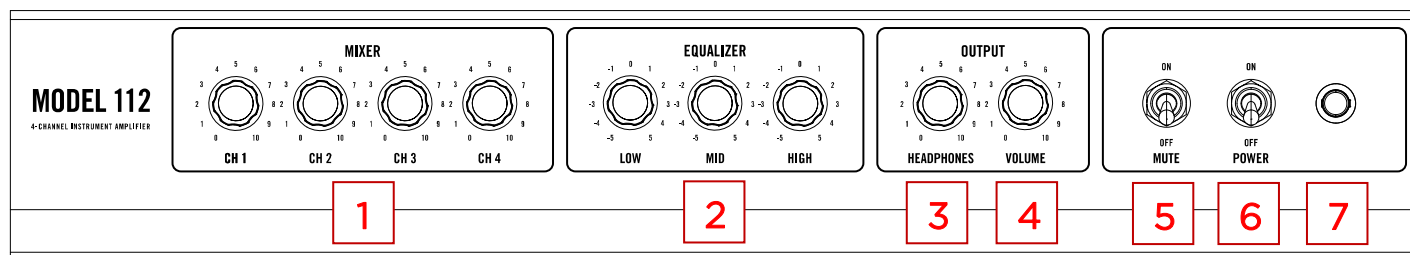
See the diagram below for more setup ideas.



Features

Click on a numbered control below to jump to that section.

Front Panel



1. Mixer Channels

Adjust these knobs to control the input gain for each channel.

2. Equalizer

Adjust the Low, Mid, and High knobs to control the low-end, mid-range, and high-end frequency for the speaker output.

Note: The EQ knobs will not affect audio sent to the Balanced Out, Line Out, Stereo Link, or Aux Out.

3. Headphones

Adjust this knob to control the signal sent to the Headphones output. When headphones are connected, the speaker will be muted for quiet practice mode.

4. Volume

Adjust this knob to control the Bluetooth and speaker output volume. This knob does not affect the signal sent to the Balanced Out, Line Out, Stereo Link, or Aux Out.

5. Mute

Flip this toggle switch to mute the speakers.

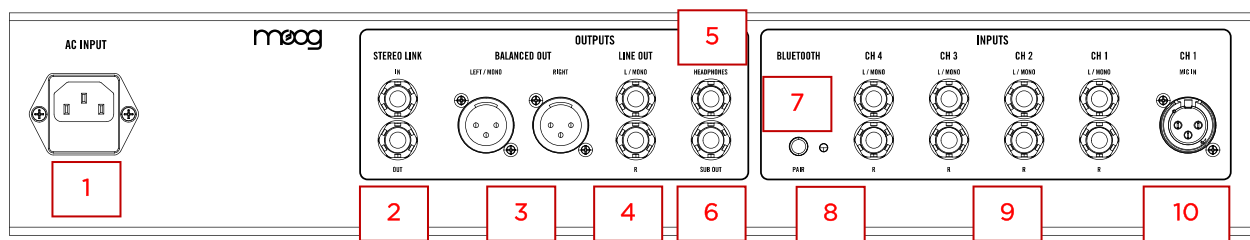
6. Power Switch

Flip this toggle switch to power the amplifier on/off.

7. Power LED

This LED will illuminate red when the speaker is powered on and will light up amber when powered on and the **Mute** switch is activated.

Rear Panel



1. Power Input

Connect the included IEC power cable here.

2. Stereo Link

Use these Stereo Link connectors to link two Model 112s together for a stereo amp rig.

3. XLR Balanced Out

Connect this balanced XLR output to another speaker or mixer. This output bypasses the internal EQ and the main **Volume** knob.

4. Line Out (1/4" / 6.35 mm)

Connect this output to another speaker or mixer. This output bypasses the internal EQ and the main **Volume** knob.

5. Headphone Out (1/4" / 6.35 mm)

Connect your headphones (not included) here.

6. Sub Out (1/4" / 6.35 mm)

Connect this mono-summed line output to a subwoofer.

7. Bluetooth® Pair Button

Press and release to pair Model 112 to your Bluetooth® device (smartphone, tablet, etc.). See the section [Pairing to a Bluetooth® Device](#) for more details.

8. Bluetooth® LED

This LED will be lit solid when paired with a Bluetooth® device.

9. CH 1 - CH 4 Inputs (1/4" / 6.35 mm)

Connect the line output of a synth or mixing console to these inputs.

10. CH 1 Mic In (XLR)

Connect a non-phantom powered microphone to this input.

Operation

Pairing to a Bluetooth® Device

1. Press and release the **Pair** button. Model 112 will enter pairing mode and the **Pair** LED will flash.
2. Select “MODEL 112” from your Bluetooth device’s setup screen.
3. When paired successfully, the **Pair** LED will be lit solid.

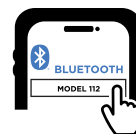
Make sure your device volume is turned up, and then turn up the **Volume** knob until you hear the signal.

To unpair, press and hold the **Pair** button for 3 seconds.

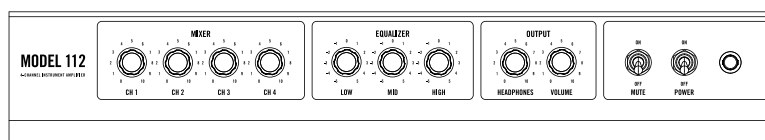
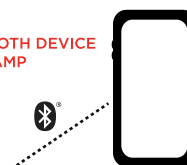
To unpair a device and remove it from memory, press and hold the **Pair** button for 10 seconds.



PRESS AND RELEASE



PAIR BLUETOOTH DEVICE
TO AMP



EQ Tips

The onboard 3 band EQ gives you a quick and easy way to adjust the overall tone of the speaker to better match room acoustics, cabinet placement, or to further shape your sound. This classic Baxandall type shelving EQ adds transparency and musicality.

Getting Started:

1. Dial in the desired tone on your instrument first.
2. Set the speaker's EQ knobs to 12 o'clock.
3. Adjust the speaker's Low, Mid, and High EQs in small moves.
4. Stop adjusting the EQ when the sound feels natural.

See the tips below to adjust the EQ controls based on different situations.

Low EQ (boosts or cuts frequencies below 100 Hz)

- If low notes blur together, are muddy, or the stage is boomy, slightly reduce the Low EQ knob.
- If the tone feels too thin, increase the Low EQ knob to add weight and tightness.
- If using modern metal amp tones, slightly reduce the Low EQ knob.
- If using vintage/clean amp tones, slightly increase the Low EQ for fuller bass.

Mid EQ (boosts or cuts frequencies centered around 800 Hz)

- If the sound is getting lost in the band mix, increase the Mid EQ knob to give it more presence.
- If you are playing in a small room or your sound preset is too "boxy", reduce the Mid EQ knob.

High EQ (boosts or cuts frequencies below and above 10 kHz)

- To calm harsh digital fizz, reduce the High EQ knob.
- If the tone feels dull on a stage with heavy curtains or outdoors, increase the High EQ knob. High frequencies will get absorbed by soft surfaces and open air.
- If using vintage sound presets, increase the High EQ for an airy shimmer.

Appendix

Technical Specifications

Mic Inputs (CH1)	
Connector	XLR
Maximum Input Level	+18 dBu
Frequency Response	20 Hz – 20 kHz (+/- 3 dB)
Input Impedance	600 Ω

Line Inputs (CH1-4)	
Connectors	2 x 1/4" TRS (left mono)
Maximum Input Level	+18 dBu
Frequency Response	20 Hz – 20 kHz (+/- 3 dB)
Input Impedance	22 K Ω

Main Outputs	
Connectors	2 x XLR + 2 x 1/4" TRS
Output Level	+4 dBu nominal (0.5% THD)
Input Impedance	100 Ω (unbalanced)

General	
Power Output	880 W Peak (400W LF + 40W HF bi-amplified)
Speakers	LF Driver: 12.0"; HF Drivers: 1.0" compression driver
Coverage	100 x 100 (Horizontal x Vertical)
Frequency Response	49 Hz – 20 kHz (-3 dB) 40 Hz – 23 kHz (-10 dB)
Power	100-120 VAC / 60 Hz 220-240 VAC / 50 Hz
Enclosure	Tolex-wrapped wood with protective metal corners
Wireless Technology	Bluetooth® 6.0 Classic Audio
Wireless Range	Bluetooth® Range: Up to 30.5 m / 100 ft. Transmitter Frequency Range: 2402 MHz – 2480 MHz Transmitter Power: 10 dBm
Dimensions (Height x Width x Depth)	19.68" x 11.5" x 21.06" 500 x 292 x 535 mm
Weight	47.84 lbs. 21.7 kg

Specifications are subject to change without notice.

Bluetooth and wireless reception and range are affected by walls, obstructions, and movement. For optimal performance, place the product in the center of the room so it is unobstructed by walls, furniture, etc. Battery life may vary based on temperature, age, and volume usage of product.

Trademarks & Licenses

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