

TROUBLESHOOTING SPEAKER CONNECTIONS TO THE JUKE AMPLIFIER

Start by following the full details for connecting the speaker wiring to the Juke at <https://jukeaudio.com/installing/> -- If you run into any issues with audio output, please go into the Juke Audio administrator settings, navigate to the system diagnostics page, and hit "Run Zone Tests". The Juke will then scan its speaker connections and tell you if there are any errors it is detecting in the speaker wire connections. **Note:** It will show a warning if speakers are not connected to a zone.

If the Juke shows no warnings:

- Confirm the Juke Audio amplifier is turned on and the zones are turned on for the input / source you are actively playing from. A zone will show as light blue in the Juke Audio interface to signify it is turned "on" for that audio source.
- Check to make sure there are not any in-wall volume controls from an older system that might be turned down.

If there shows no connection detected:

- Confirm that you have connected the speaker wires in the correct order of (+ - + -) for each zone. If a single 4-conductor wire was run for each speaker pair, this typically means the order should be connected in red, black, white, green. If a 2-conductor wire was run from each speaker individually then the connection will be red, black, red, black.
- If you have tried that sequence suggested above and it still shows no connection detected, then try inverting the wiring combinations and testing after each permutation.

If it shows shorted connection:

- If the speaker wires are shorted, it is often at the green connectors, occurring if the bare wires are too long and touching each other (it only takes a single strand). Alternatively, it can be somewhere in the wall wiring between the Juke and the speakers, which can take a little longer to track down. In either scenario, you'll need to separate the wires so they are not touching.

If it shows short to ground:

- Positive or negative are touching a piece of metal that they shouldn't be, either the metal enclosure or at the speaker



SKY SPEAKER

Quick Install Speaker System Instruction Booklet

INTRODUCTION

Congratulations on the purchase of your Juke Audio Sky Speakers. These speakers were manufactured with high quality components and engineered to accurately reproduce sound tracks from both music and video sources, including today's demanding digital signals. Mounted flush to a wall or ceiling, architectural speakers are ideal for many applications where traditional speakers would be impractical or impossible. They are especially well suited for distributing audio throughout an entire home/building with excellent sound quality and aesthetic appeal. When properly installed, this product will provide you with years of entertainment pleasure.

To obtain the full potential of your new speakers, please read all instructions before starting the installation.

PARTS LIST

Each Juke Audio Sky Speaker package includes the following items:

- (2) Juke Audio Sky Speakers with grilles
- (1) Hole cutout and paint mask template
- (1) Quick Install L-shaped Installation and removal tool

SPEAKER LOCATION GUIDE

To achieve the best performance from your Juke Audio Speakers, it is important to carefully select the location for installation.

IN CEILING INSTALLATIONS

Typically, the speakers should be placed about 1/3rd of the distance from the corner of the room to the center of the ceiling. If possible, avoid locating the speakers less than two feet away from the corners of the room.

WALL INSTALLATIONS

As a general rule, the speakers should be mounted close to, or slightly above the listener's ear level, when seated. The speakers should be approximately the same distance apart as the distance to the listening area. If possible, avoid locating the speakers less than two feet away from the corners of the room.

SPEAKER INSTALLATION

CAUTION: BE CERTAIN THERE ARE NO ELECTRICAL WIRES, WATER PIPES, HEATING DUCTS OR ANY OTHER OBSTRUCTIONS IN THE PLANNED AREA OF INSTALLATION BEFORE YOU START DRILLING OR CUTTING INTO THE CEILING. IF THERE IS AN ELECTRICAL OUTLET NEARBY, TURN OFF THE CIRCUIT BREAKER TO AVOID POSSIBLE INJURY.

These ceiling speaker are designed to be mounted between the studs. Use a stud finder to locate the positions of joints and rafters. Make sure you have a 2" clearance from the outside of the cutout hole from joists and rafters.

Drill a 1/4" pilot hole in the center of the area you plan to mount the speaker. Cut or bend a piece of wire (a coat hanger works well) to a 90 degree angle. Insert the wire into the pilot hole and fish around to make sure that no pipes, studs or other objects will interfere with the installation. If you must choose another location the pilot hole can be easily patched.

Once you have a suitable location, use masking tape to temporarily place the supplied cutout template on the ceiling. The cutout size is 9 3/4" diameter, centered over the pilot hole. Draw a circle around the inside edge of the template. Use a drywall saw or keyhole saw to remove the material inside the circle inscribed by the template. Confirm that the speaker easily fits in the hole,without any gaps.

SPEAKER HOOKUP

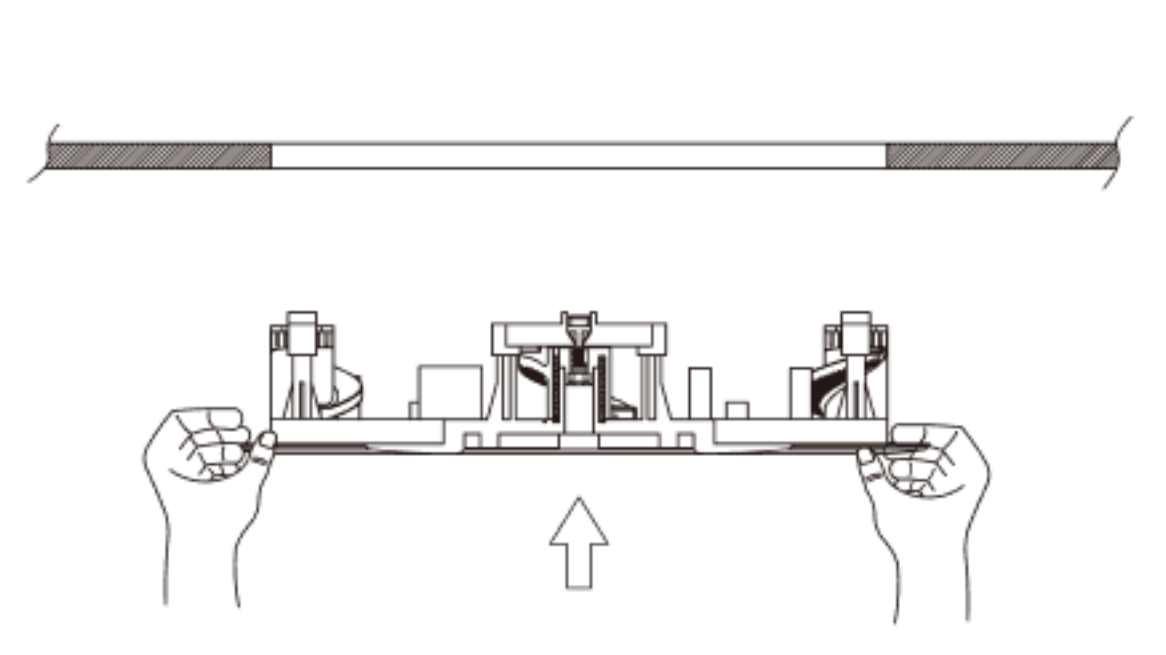
The speaker terminals will accommodate any speaker wire up to 12-gauge. Select an appropriate wire gauge from the following chart.

18ga:	up to 25"
16ga:	up to 40"
14ga:	up to 75"
12ga:	up to 125"

Split the two conductors of the speaker wire apart about 3 inches so that they form a "Y". Using wire strippers, remove about 1/2-inch of the insulation from each wire. When connecting a speaker it is very important to retain the correct polarity (improper polarity will cause reduced bass performance and unnatural imaging effects). To do this, be sure the wire attached to the positive terminal on the speaker (marked [+] or colored red) connects to the positive terminals on the amplifier. Similarly, the negative terminal (marked [-] or colored black) must be connected to the negative terminal on the amplifier.

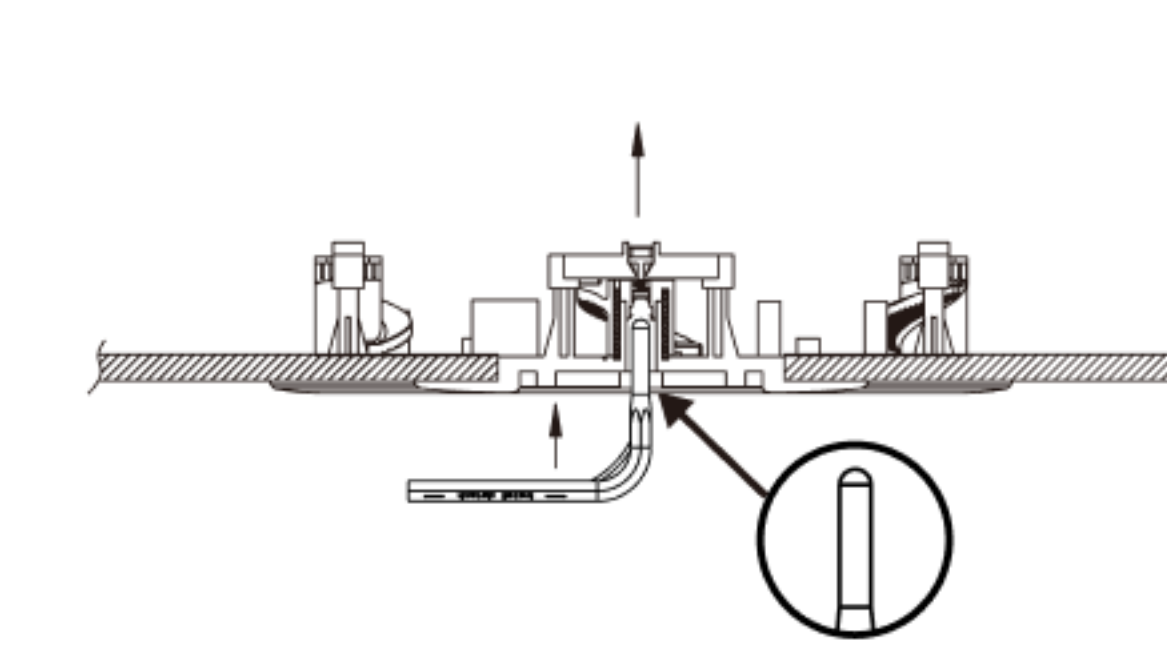
Note: The Juke amplifier follows the connection pattern per zone of + - + -.

INSTALLATION



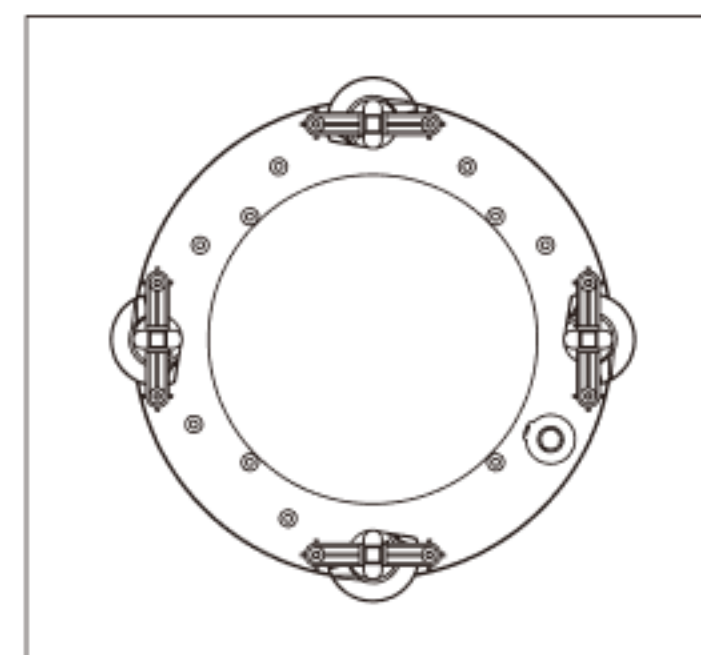
Place the speaker inside the cutout hole

①



Use the "Install" end of the L-shaped tool to press in the four QuickInstall holes.

②

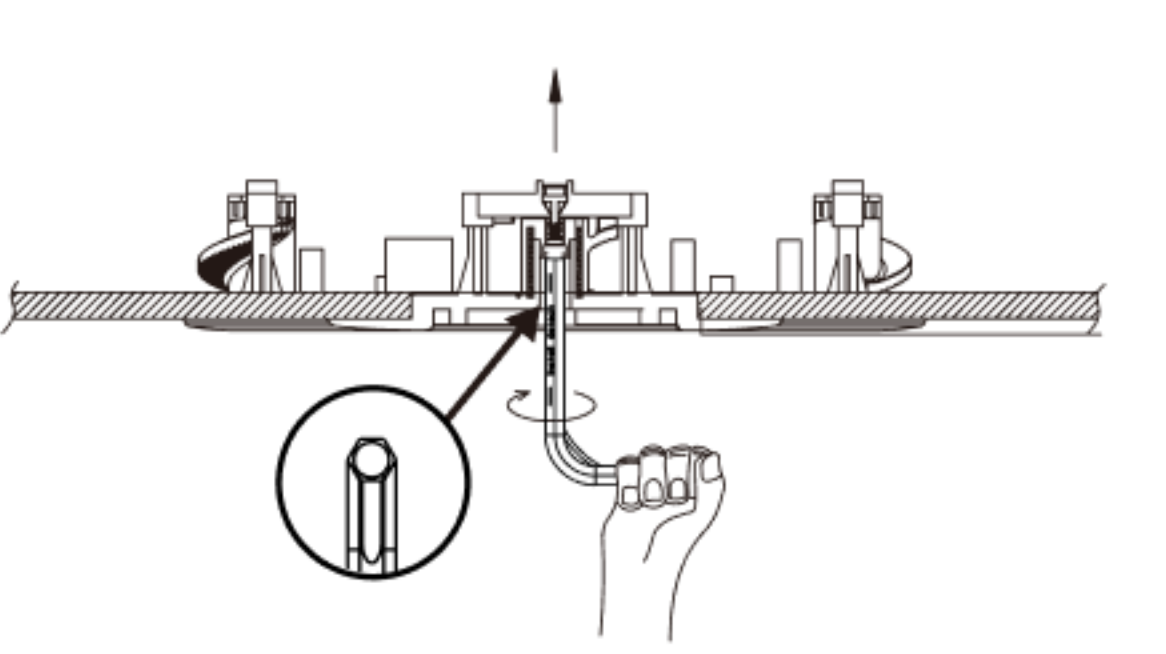


This will lock the speaker in place.

③

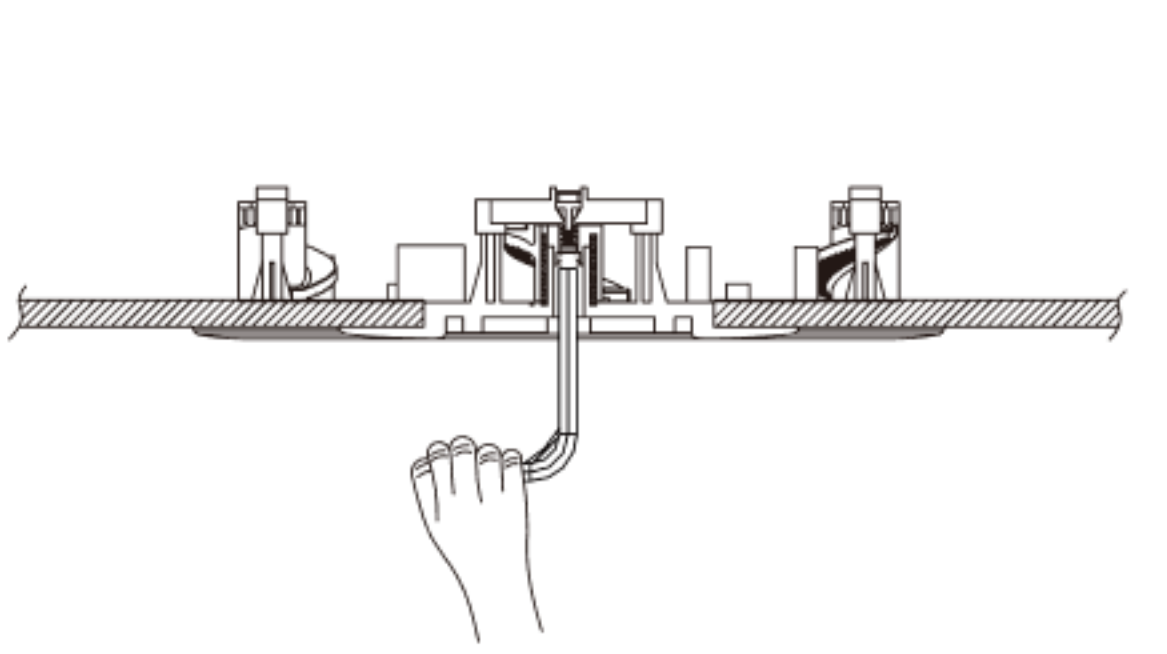
Your Juke Audio speakers should arrive ready for installation with the QuickInstall mechanism in the "install" position. After connecting the speaker wire to your speaker, place the speaker inside the cutout hole. While holding the speaker in place, use the "Install" end of the L-shaped tool to press in the four QuickInstall holes. This will lock the speaker in place. To un-install the speakers, use the "Detach" end of the L-shaped tool. Insert the "Detach" end of the tool into each QuickInstall hole and turn the tool ½ turn counter clockwise. This will remove the speaker from the wall/ceiling and have the speaker ready to install again.

UN-INSTALL



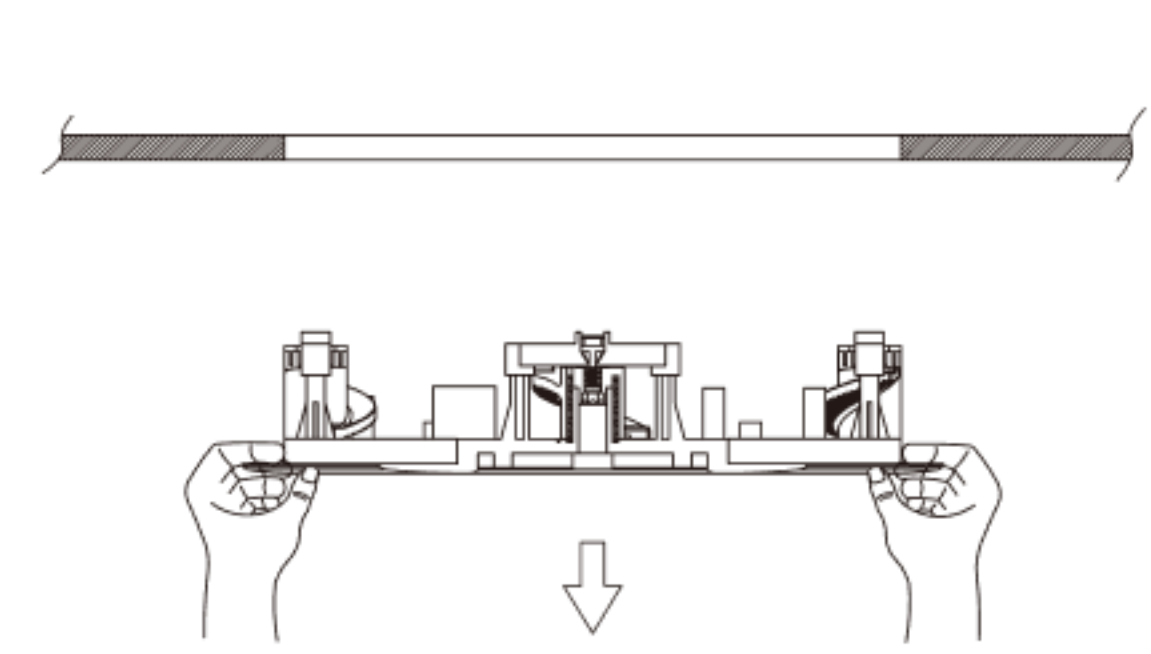
Use the "Detach" end of the L-shaped tool.

①



Insert the "Detach" end of the tool into each QuickInstall hole and turn the tool ½ turn counter clockwise.

②



This will remove the speaker from the wall/ceiling

③