



LFR180 v4 Omnidirectional

# IMPORTANT SAFETY INSTRUCTIONS

## CAUTION

1. *Read these instructions.*
2. *Keep these instructions.*
3. *Heed all warnings.*
4. *Follow all instructions.*
5. *Do not use this apparatus near water.*
6. *Clean only with dry cloth.*
7. *Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.*
8. *Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.*
9. *Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.*
10. *Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.*
11. *Only use attachments/accessories specified by the manufacturer.*
- 12.



*Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.*

13. *Unplug this apparatus during lightning storms or when unused for long periods of time.*
14. *Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.*
15. *Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.*
16. *To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.*
17. *The mains plug of the power supply cord shall remain readily operable.*
18. *Do not expose batteries to excessive heat such as sunshine, fire or the like.*



*The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.*



*The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.*

**WARNING :** *To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.*

## SAFETY PROCEDURES

- *Ensure that you connect your DSP only to the type of power supply indicated on the rear panel, and ensure that the power cord cannot be walked on or otherwise damaged.*
- *To prevent electric shock, match wide blade of plug to wide slot, fully insert.*
- *Ensure that objects or liquids are not allowed to penetrate the enclosure.*

*For any additional information or service, contact:*

**AXIOM, 2885 HWY 60  
DWIGHT ON CANADA  
P01 1H0**

**Phone: 1-866-244-8796**



Every member of our Axiom team is pleased that you have decided to purchase one of our products. We have all worked hard to bring the highest level of satisfaction to your audio experience.

Axiom is deeply committed to ongoing audio research. It began in the early 1980s when I was involved with the world-class psycho-acoustical research that was being conducted at the National Research Council in Ottawa, Canada. Since that time we have built one of the finest acoustical laboratories in the world at our facility in Dwight, Canada where we continue this research allowing Axiom to provide the world's most realistic-sounding loudspeakers.

At Axiom our goal is to provide you with a truly exciting and emotional experience every time you listen to your audio system. We want you to feel part of our Axiom family and as such we stand at the ready to deliver personal, expert advice on any of your audio needs.

Sincerely,

Ian Colquhoun  
President and Founder  
Axiom Audio

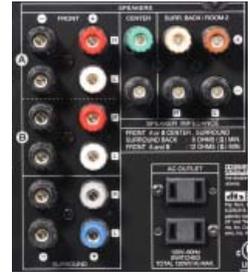
## Placement

The location of your new Axiom LFR180 speaker will significantly affect the sound quality you experience in your particular room so take care to position it correctly. Since the LFR180 is an omnidirectional speaker with active drivers located in both the front and rear of the cabinet you will want to keep some space all around your LFR180; our FMS-LFR180 stand is perfect for this. If you are around 6" (150mm) from the wall this would be considered the neutral position. If you need to place it closer to or further from the wall than this your DSP box does have a switch on the rear panel labeled "Boundary Compensation". Around 4" (100mm) from the wall would be "Near 1" and 2" (50mm) or closer would be "Near 2". If you are more than 8" (200mm) from the wall "Far 1" should be used and more than 12" (300mm) would be "Far 2". The "Boundary Compensation" switch can also be used to adjust for highly reflective or highly damped rooms. A highly reflective room may be more suited to the switch being in one of the "Near" positions and a highly damped room one of the "Far" positions. Ultimately it is best to try various positions in your room and go with what you feel delivers the best performance. The LFR180s have the unique ability of removing the "sweet-spot"; a large 3-D soundstage can be enjoyed from many seating positions.

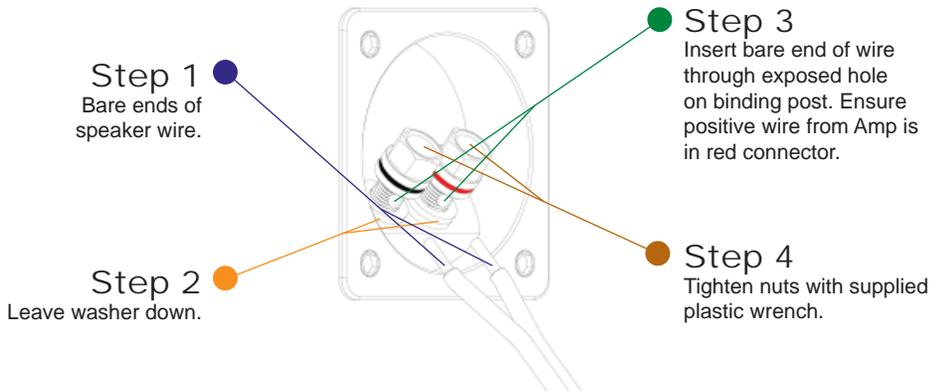
## Hookup

Turn your speakers around and look at the back panel. You'll see two sets of gold-plated 5-way binding posts, to which you are going to connect the speaker cables from your amplifier. Each gold binding post is color coded - RED is POSITIVE, BLACK is NEGATIVE. You will also see a positive (+) sign engraved in the plastic beneath the RED binding post, and a negative (-) sign beneath the BLACK post. It is important that the negative wires from your amplifier go to the negative inputs on your speaker and the positive wires from your amplifier go to the positive inputs on your speaker. The single set of binding posts are for the speakers in the rear of the LFR180. These should be connected to your amplifier on the same channel as OUT REAR on your DSP. The dual bi-amp/bi-wire set of binding posts are for the speakers in the front of the LFR180. These should be connected to your amplifier on the same channel as OUT FRONT on your DSP. The top set is always the high frequency and the lower set the low frequency. These two sets of binding posts are connected with bridging bars which are required if you are only using one amp and one speaker cable. To utilize the bi-amp or bi-wire feature be sure to remove these bridging bars.

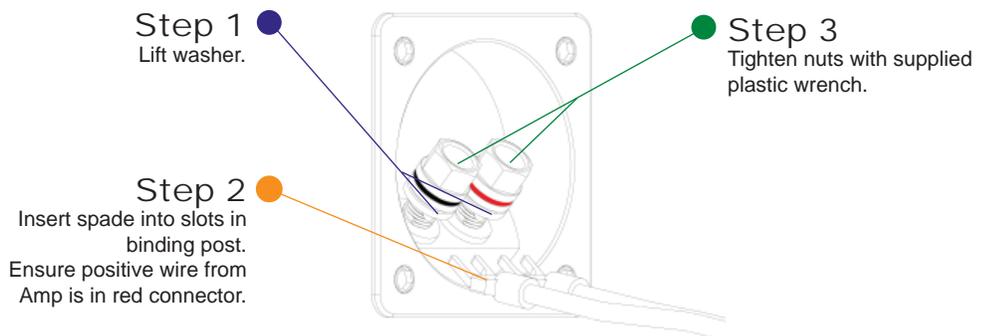
Front Left Speaker: White  
Subwoofer: Purple  
(line-level RCA output only)  
Front Right: Red  
Center: Green  
Left Surround (side): Blue  
Right Surround (side): Gray  
Left Back Surround: Brown  
Right Back Surround: Tan



### Bare Wire



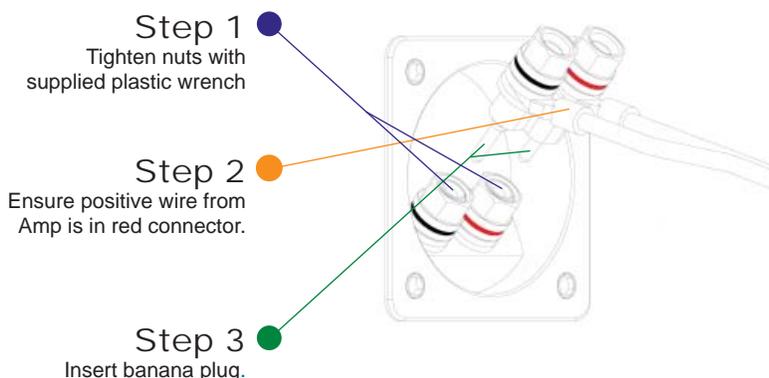
### Spade Lug (1/4-inch spade)



## Leveling

To level your speaker simply rotate the outside of each foot until they reach the desired height.

### Banana Plug (3/4-inch spacing)



For detailed instructions on dual binding post inputs please visit [www.axiomaudio.com/dual-input-connections](http://www.axiomaudio.com/dual-input-connections)



## Connecting the DSP

### Step 1 (Check your Voltage)

Look at the rear panel of your DSP. You will notice a voltage rating beside the power switch. Be sure this rating corresponds to the voltage supplied in your country. If there is a difference please do not proceed any further and contact AXIOM for assistance. Failure to use the proper power supply will result in immediate and permanent damage.

### Step 2 (DSP Inputs)

If you have a DSP-5 or DSP-6 you will see two possible input connections from your receiver or pre-amp; binding posts and an RCA connector. If your receiver has pre-amp outputs use this to connect the center channel to the DSP using an RCA cable. If your receiver does not have pre-amp outputs you can use a speaker wire to connect the speaker output of your receiver's center channel to the binding posts on the DSP.

If you have a DSP-4 or DSP-7 you will see two possible input connections from your receiver or pre-amp; Balanced XLR and RCA connectors. Whichever type of connector you use from your pre-amp output to your DSP-4 or DSP-7 you should also use going from your DSP-4 or DSP-7 to your amplifier.

### Step 3 (DSP Outputs)

If you have a DSP-5 use RCA cables to connect each output (Center Front and Center Rear) to the inputs of a 2-channel amplifier.

If you have a DSP-6 you should now follow the instructions for Wiring Your Speakers.

If you have a DSP-7 use either RCA or XLR cables to connect each output (Center Front and Center Rear) to the inputs of a 2-channel amplifier.

If you have a DSP-4 use either RCA or XLR cables to connect each output (Right Front, Right Rear, Left Front, Left Rear, Center Front, Center Rear) to the inputs of a 6-channel amplifier.

### Step 4 (Power Cord)

Connect the power cord to your DSP and plug it into your power supply. Turn on the main power switch on the rear panel. The front switch will now be active for turning your DSP on and off. The light on the front will glow blue to indicate your DSP is now ready for use.



AXIOM AUDIO HEAD OFFICE: 2885 HIGHWAY 60  
DWIGHT, ON CANADA  
PoA 1H0

TOLL FREE (NORTH AMERICA): 1-888-352-9466  
WORLDWIDE: 1-705-635-2222  
EMAIL: [INFO@AXIOMAUDIO.COM](mailto:INFO@AXIOMAUDIO.COM)

[www.axiomaudio.com](http://www.axiomaudio.com)