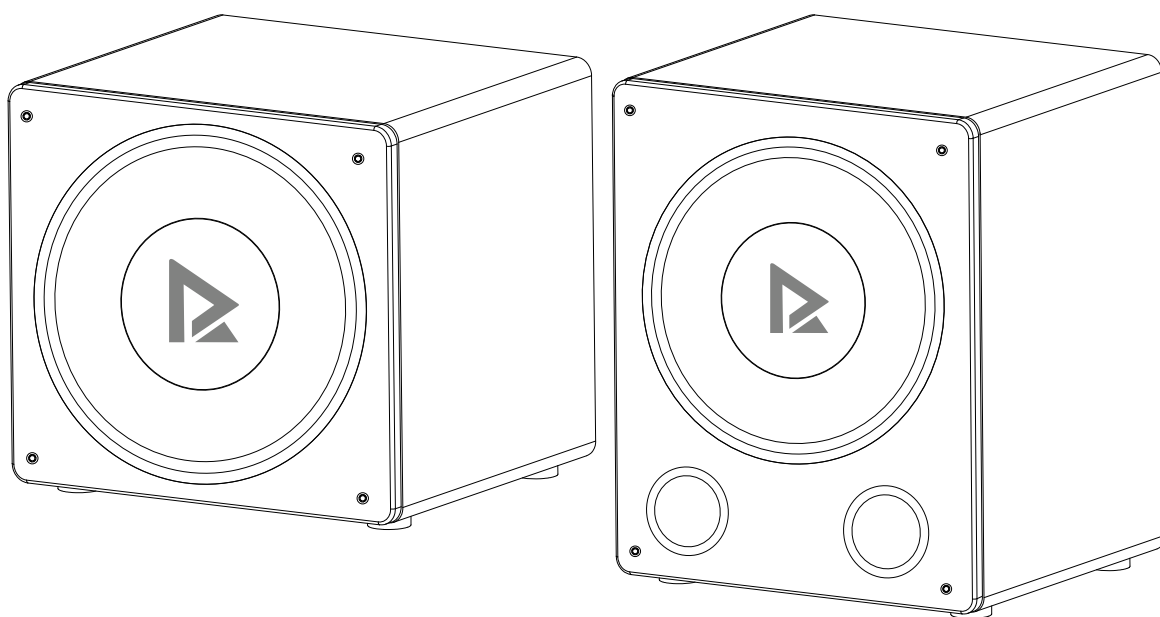


RADIN[®]AUDIO

DHX/SX

Subwoofer Series



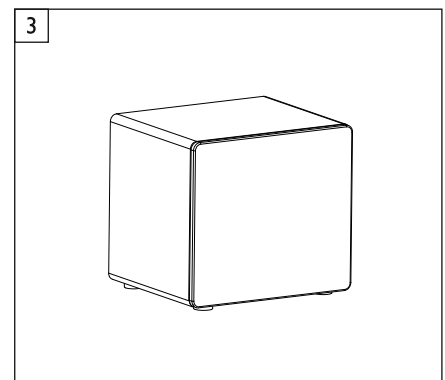
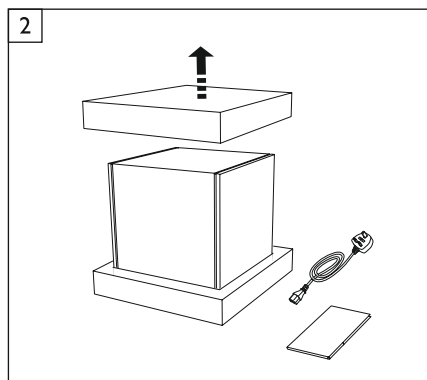
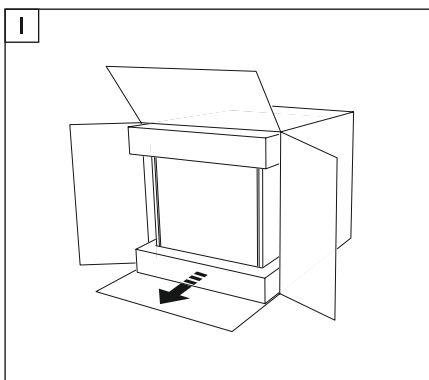
OWNER'S MANUAL



Important Safety Instructions

- Follow this manual carefully for best results
 - Read warranty card
 - Clean with a dry lint free cloth
 - Do not use spirit based cleaners
 - Avoid damp
 - Avoid temperature extremes
 - Avoid direct sunlight
 - SAFETY NOTICE! trailing cables are dangerous, secure all cables
1. **Retain Instructions** - The Safety and Operating Instructions should be retained for future reference.
 2. **Heed Warnings** - All warnings on the appliance and in the Operating Instructions should be adhered to.
 3. **Follow Instructions** - All Operating and Use Instructions should be followed. Only use attachments/accessories specified by the manufacturer.
 4. **Important** - Do not defeat the safety purpose of the polarized or grounding type plug. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Refer all servicing to a qualified service personnel. Servicing is required for any damaged parts such as power-supply cord or plug.
 5. **Water and Moisture** - The appliance should not be used in or near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like. The appliance shall not be exposed to dripping or splashing. Care should be taken so that objects containing liquids are not placed upon or spilled into the enclosure through openings and that no objects filled with liquids, such as a vase, shall be placed on the appliance.
 6. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, or similar surface that may block any ventilation openings.
 7. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
 8. **Power Sources** - The appliance should be connected to a power supply only of the type described in the Operating Instructions or as marked on the appliance and it shall remain readily operable. Mains plug is used as the disconnect device. To be completely disconnected from the power input, the mains plug of the appliance must be disconnected from the mains completely.
 9. **Power-cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the appliance. The main plug should not be obstructed OR should be easily accessed during intended use.
 10. **Attachments and Accessories** - Use only attachments/accessories specified by the manufacturer.
 11. **Handling** - The appliance should be transported with the cart, stand, tripod, bracket, or table specified by manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/appliance combination to avoid injury from tip-over.
 12. **Non-use Periods** - Unplug this appliance during lightning storms or when unused for long periods of time.
 13. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - a) The power supply cord or the plug has been damaged; or
 - b) Objects have fallen or liquid has been spilled into the appliance; or
 - c) The appliance has been exposed to rain; or
 - d) The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - e) The appliance has been dropped or the enclosure damaged.
 14. **Servicing** - The user shall not attempt to service the appliance beyond that described in the Operating Instructions. All other servicing should be referred to qualified service personnel.

Unpacking

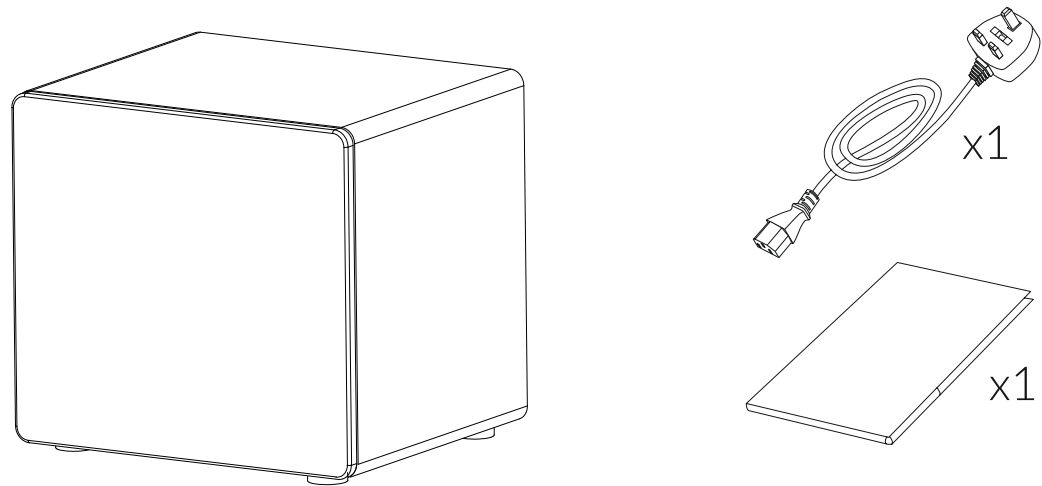


Congratulations On Choosing RADIN Audio

The Radin Active subwoofers will complement existing stereo or home theatre systems, improving low frequency performance for an immersive experience. The Radin Subwoofers are compatible with a variety of small to large sized, sealed or vented main speakers.

Your subwoofer is powered by an efficient class-D amplifier capable of delivering maximum output with low distortion for sustained periods of listening enjoyment. The amplifier module incorporates a switch mode power supply (SMPS) for efficient operation with less heat generation and consistent performance regardless of mains voltage variations.

Inside the box





CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



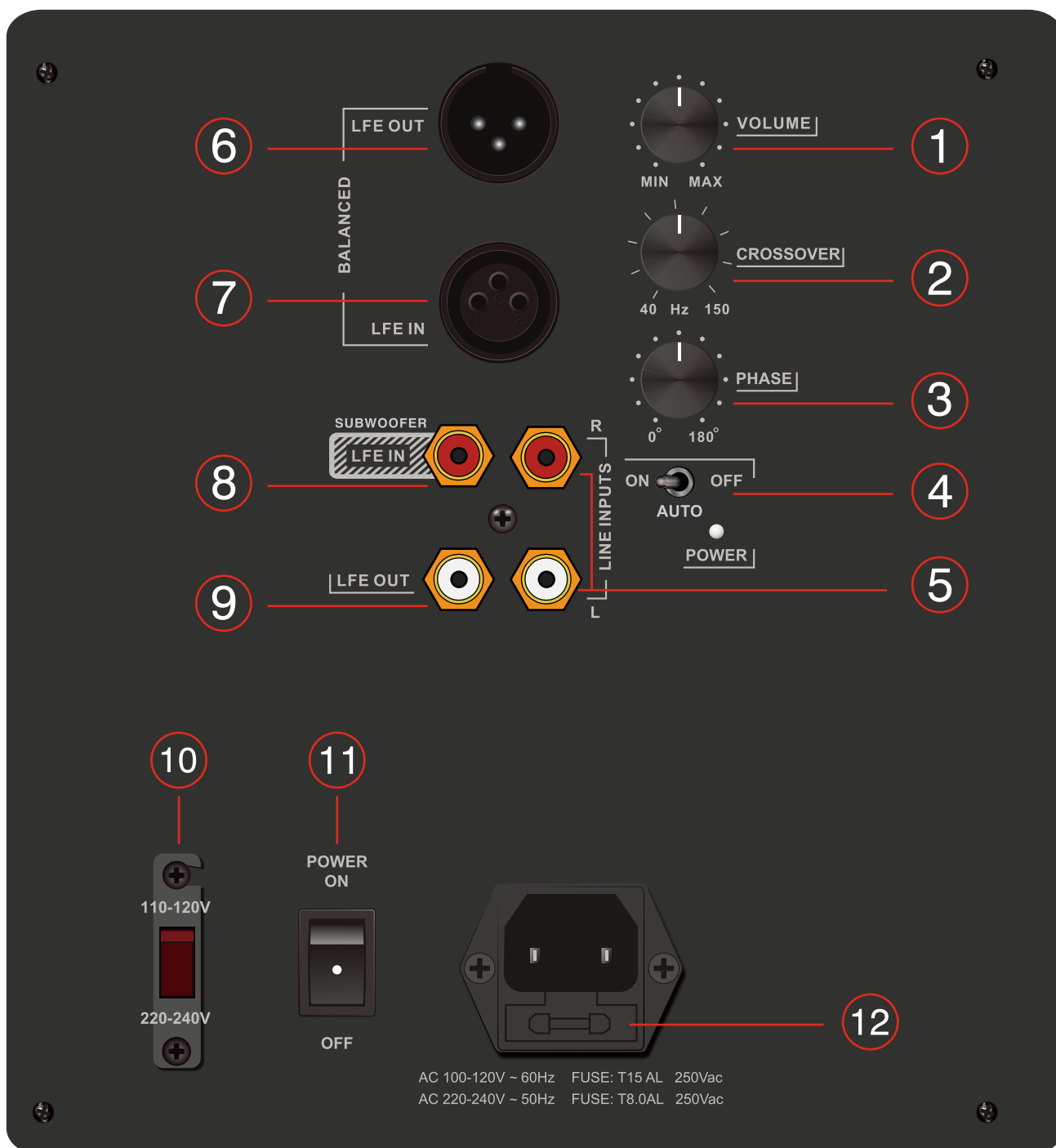
ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION:
DISCONNECT POWER CORD BEFORE CHANGING FUSE.
REPLACE WITH SAME TYPE OF FUSE.

“WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.”



Controls and sockets



- 1. Volume:** Adjusts the subwoofer's output level.
- 2. Crossover:** Adjusts the frequency at which higher frequencies are filtered from the subwoofer.
- 3. Phase:** Adjusts the phase of the subwoofer to between 0° (normal) and 180° (inverted).
- 4. Signal:** The switch set to Auto, the amplifier automatically turns on when a signal is detected.
- 5. Line Inputs:** Stereo line input
- 6. LFE Out XLR:** Used to connect or "daisy chain" to another subwoofer.
- 7. LFE In XLR:** Used to connect balanced low-level signals to subwoofer from the output of processors, AV receiver.
- 8. LFE In RCA:** The LFE input is used to connect to most receivers or processors output.
- 9. LFE Out RCA:** This RCA terminal is for another subwoofer.
- 10. Voltage Selector:** AC Voltage Selector is set to either 110V or 220V to match the power voltage in your area.
- 11. Power:** Power on and off switch.
- 12. Fuse:** This is the power fuse access. Fused mains (AC) input socket that accepts detachable power cord.

Connection - AV Receiver, Stereo

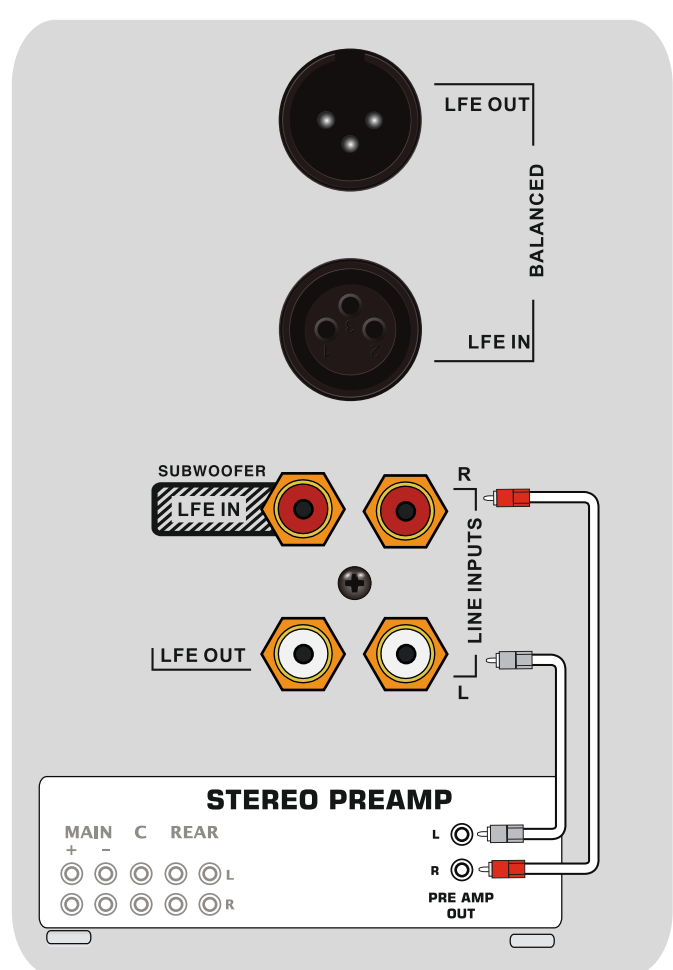
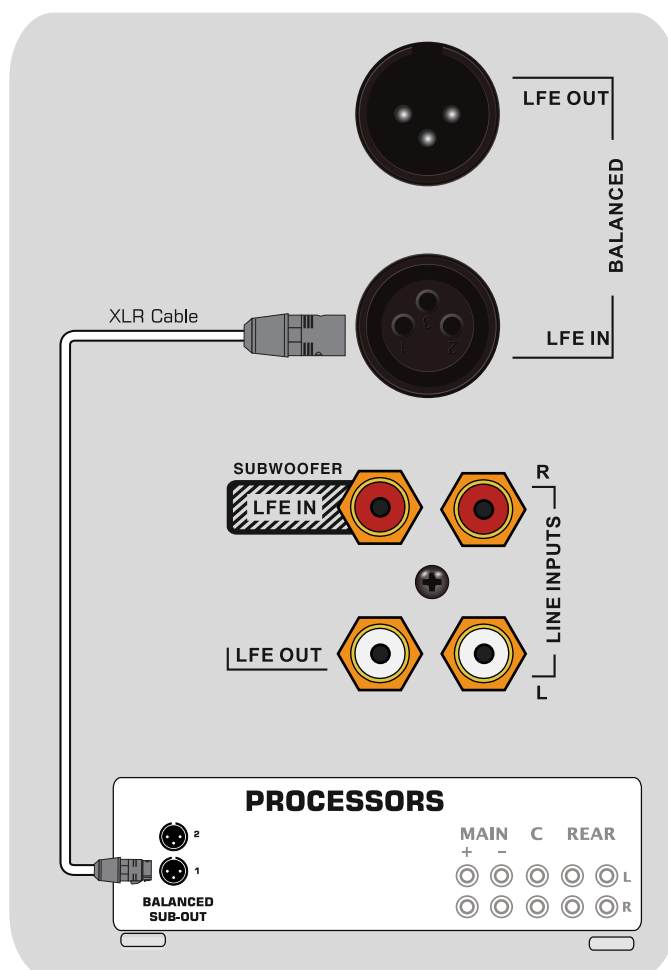
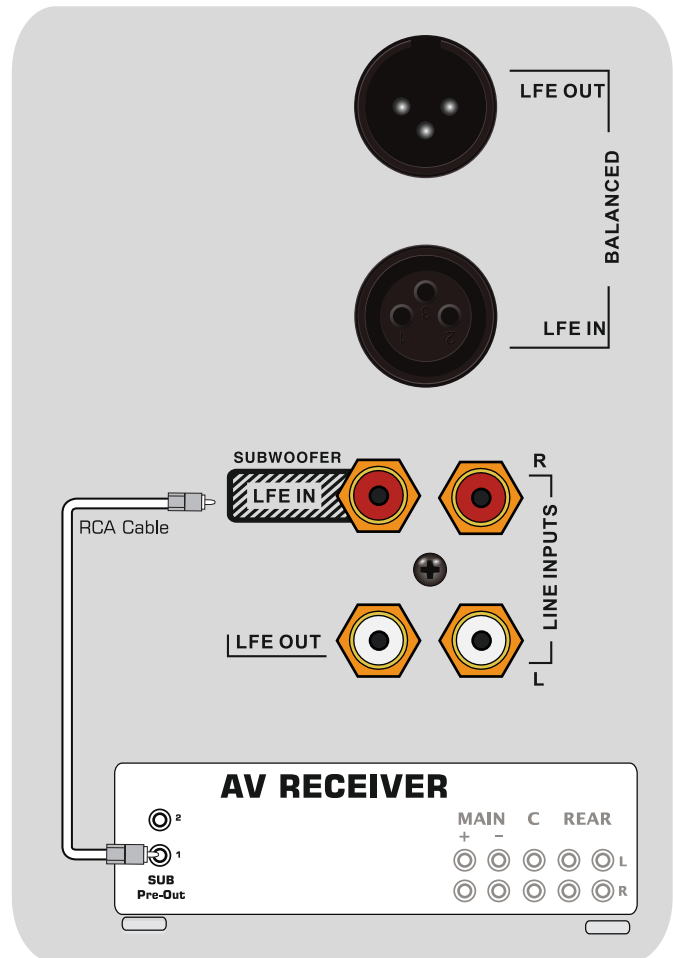
Connection and Initial Setup

- Ensure the main power switch is off and connect the mains power cord.
- Set volume on your subwoofer to the 50% position.
- Set Phase to 0°.
- Set subwoofer low pass to 200Hz (bypass) setting. The AV receiver will manage the crossover/low pass frequency.
- Connect the subwoofer pre-out (SUB OUT) on your receiver/processor to the LFE input on your subwoofer. For Wireless Connection or multiple subwoofers see "Alternative Connection Methods"
- Switch on mains power switch.
- At this time you may wish to perform the AV receiver's automatic calibration procedure. After the automatic procedure is complete you may wish to adjust your subwoofer output level to taste. Alternatively refer to the manual setup procedure below.

Manual Receiver Setup:

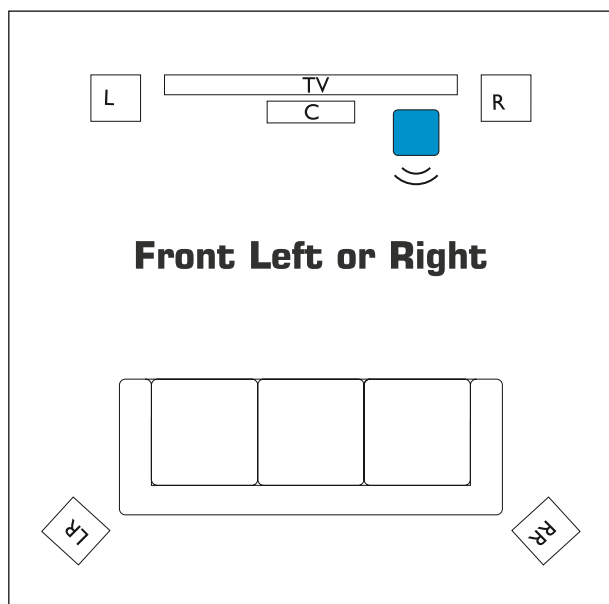
Ensure subwoofer is set to ON or YES in your receiver setup. Refer to your receiver/processor manual for more information.

Use the default subwoofer channel level setting on your receiver.

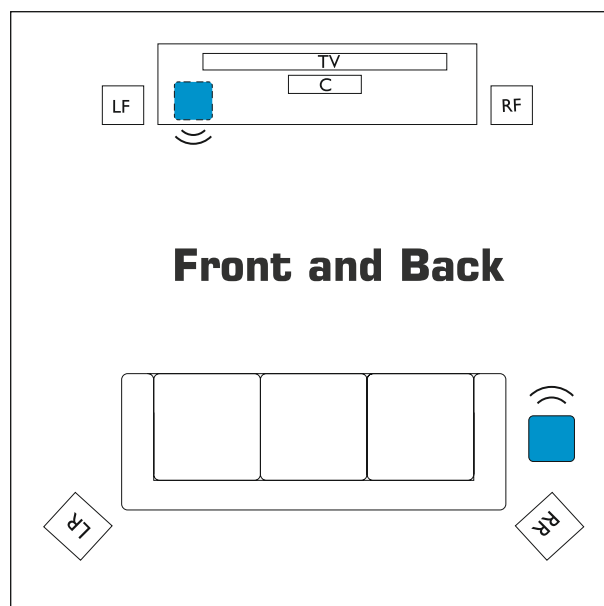
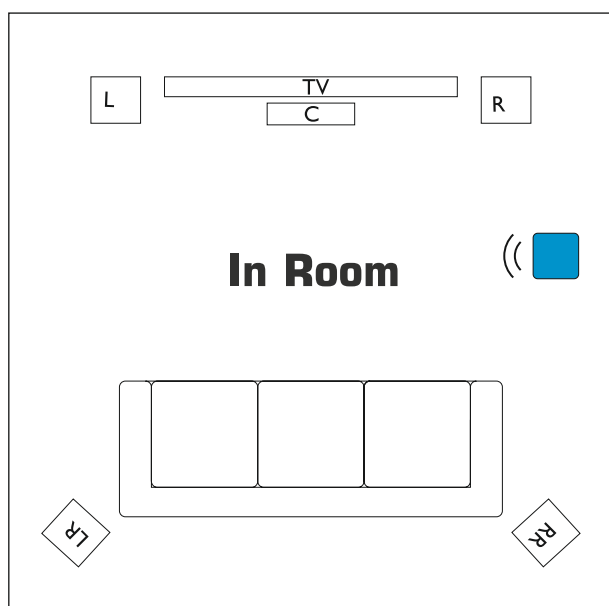
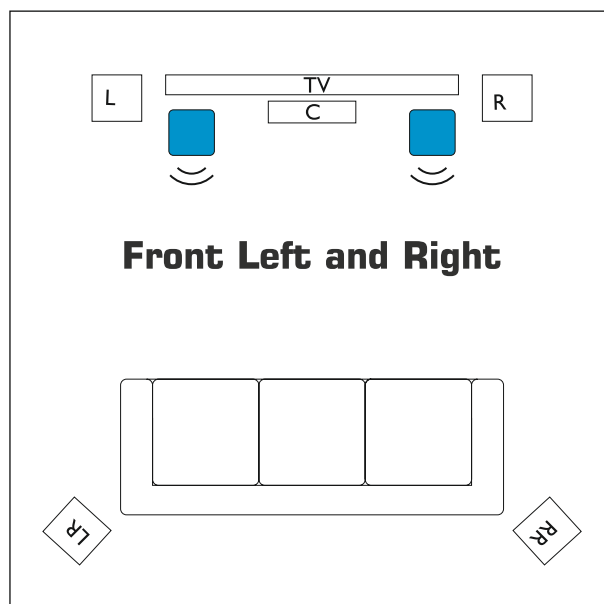


Subwoofer Placement

One Subwoofer



Two Subwoofers



Tip

To get the most from your subwoofer we recommend experimenting with the following positioning technique:

Place your subwoofer in your central listening position, you may need to purchase a long subwoofer input cable. Disconnect all speakers other than the subwoofer. Play some music or a movie with heavy bass content. Move around your room, listening at floor level. Note any changes in the tonal quality of the bass. Mark out one or more potential locations that offer a smooth, extended sound or a sound quality you enjoy. Relocate your subwoofer to this location, reconnect speakers, and listen again from your central listening position. Permanently locate your subwoofer to this new location if you notice an improvement in the sound quality.

The most 'obvious' position for your subwoofer is not always the best.

The bass produced by a subwoofer is omni-directional and very hard for your ears to localise. Therefore a subwoofer can be placed virtually anywhere in your listening room and provide the impression that the bass is radiating from your main speakers. The quality of bass however is affected by the position of your subwoofer due to complex acoustic interactions with your listening room. Depth, punch, and integration with your main speakers are all affected by the position of your subwoofer. Experimentation is always recommended to achieve the most satisfying results.

Subwoofer Specifications

PORTED ACTIVE SUBWOOFERS

Model	DHX-10	DHX-12	DHX-16
Design	Down Ported Cabinet	Front Ported Cabinet	Front Ported Cabinet
Drive units	10in.Glass Fiber	12in.Glass Fiber	16in.Glass Fiber
Frequency Response	26Hz -500Hz (±3dB)	19Hz -500Hz (±3dB)	18Hz -500Hz (±3dB)
Phase Switch	Yes, 0 or 180 degrees	Yes, 0 or 180 degrees	Yes, 0 or 180 degrees
Amplifier Type	High-Efficiency Class-D	High-Efficiency Class-D	High-Efficiency Class-D
Amplifier Power	600W RMS, 1000W Peak	600W RMS, 1200W Peak	1000W RMS, 2000W Peak
Variable Low Pass Filter	40Hz - 150Hz, LFE	40Hz - 150Hz, LFE	40Hz - 150Hz, LFE
Input	LFE RCA, LFE XLR Low Level stereo RCA	LFE RCA, LFE XLR Low Level stereo RCA	LFE RCA, LFE XLR Low Level stereo RCA
Power requirements	100-240V ~ 50/60 Hz	100-240V ~ 50/60 Hz	100-240V ~ 50/60 Hz
Signal Turn On	Selectable always on/Auto	Selectable always on/Auto	Selectable always on/Auto
Dimension (H x W x D) with Grille and Feet	14.5 x 14.5 x 15.5 in.	19 x 16 x 16 in.	22.5 x 21.5 x 21.5 in.
Weight	21.5 kg	26.5 kg	55.5 kg
Cabinet Construction	Braced 18mm thick MDF with 36mm front baffle		50 mm front baffle
Grille	Cloth covered attached Grilles		

SEALED ACTIVE SUBWOOFERS

Model	SX-10	SX-12	SX-16
Design	Sealed Cabinet	Sealed Cabinet	Sealed Cabinet
Drive units	10in.Glass Fiber	12in.Glass Fiber	16in.Glass Fiber
Frequency Response	26Hz -500Hz (±3dB)	20Hz -500Hz (±3dB)	20Hz -500Hz (±3dB)
Phase Switch	Yes, 0 or 180 degrees	Yes, 0 or 180 degrees	Yes, 0 or 180 degrees
Amplifier Type	High-Efficiency Class-D	High-Efficiency Class-D	High-Efficiency Class-D
Amplifier Power	600W RMS, 1000W Peak	600W RMS, 1200W Peak	1000W RMS, 2000W Peak
Variable Low Pass Filter	40Hz - 150Hz, LFE	40Hz - 150Hz, LFE	40Hz - 150Hz, LFE
Input	LFE RCA, LFE XLR Low Level stereo RCA	LFE RCA, LFE XLR Low Level stereo RCA	LFE RCA, LFE XLR Low Level stereo RCA
Power requirements	100-240V ~ 50/60 Hz	100-240V ~ 50/60 Hz	100-240V ~ 50/60 Hz
Signal Turn On	Selectable always on/Auto	Selectable always on/Auto	Selectable always on/Auto
Dimension (H x W x D) with Grille and Feet	14.5 x 14.5 x 15.5 in.	15.5 x 15.5 x 15.5 in.	19.5 x 18.5 x 19.5 in.
Weight	21.5 kg	26.5 kg	49.5 kg
Cabinet Construction	Braced 18mm thick MDF with 36mm front baffle		50 mm front baffle
Grille	Cloth covered attached Grilles		



RADIN[®] AUDIO

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In the interest of product improvement, Radin Audio reserves the right to alter these specifications without notice.