

Radius **380**

Radius **390**

owners manual

Introduction

Thank you for your purchase of the Radius 380 or 390 subwoofer, which has been designed and constructed using quality systems and materials to provide years of enjoyment, reliability and pride of ownership.

Music is and should be a natural enhancement of life. It stimulates the imagination, changes your mood, helps you relax, and provides endless hours of entertainment. At Monitor Audio we pride ourselves in attempting to make the listening experience as close as possible to the original 'music' production.

Please read through this manual to familiarise yourself with any safety advice and how to set up your subwoofer to achieve the very best listening experience.

Please retain this manual for future reference.

Unpacking



Care must be taken at all times when handling the subwoofer due to the weight and the construction of the product. We recommend a two-person lift wherever appropriate.

The mains power cord(s) and 12 volt trigger lead are contained separately in the packaging and should be removed prior to unpacking the product.

To remove the subwoofer from its carton place some protective material on the floor and having removed any loose items (mains lead(s) and 12 volt trigger lead) from the top of the packaging, carefully invert the carton. Also see the icons printed on the carton. Gradually pull the carton upwards to expose the subwoofer, which will be presented with its base uppermost. Remove fixing tape from bag and expose the base/cabinet.

Positioning/Initial Set Up



Leave the subwoofer unplugged from the mains until the installation procedure is completed.

The subwoofer should now be sited in the most suitable position, preferably not directly in the corner of a room as this may cause excessive bass boom. Once a desirable position is achieved it is important to check if the cables are long enough to reach comfortably without being under tension. The optimal control settings will depend entirely on your system configuration, room environment and personal tastes. However, for initial trials set the controls as follows:

Volume Control	Should be set to approximately 10 o'clock.
Frequency Control	Should be set to the approximate frequency depending on main speakers when using the L & R Line Level Inputs.
Bass Control	Should be set to Movies when connecting to an AV receiver or Music when connecting to a stereo amplifier.
Phase Control	Should be set to zero degrees.
Mode Switch	Should be set to 'on'.
12v Trigger (optional) Input	Do not connect at this stage. Connections from the amplifier can be made at this stage before the power is connected to the subwoofer. Refer to items 1 and 2 on page 3.



Never connect or disconnect the RCA input/ output leads with the subwoofer switched on.

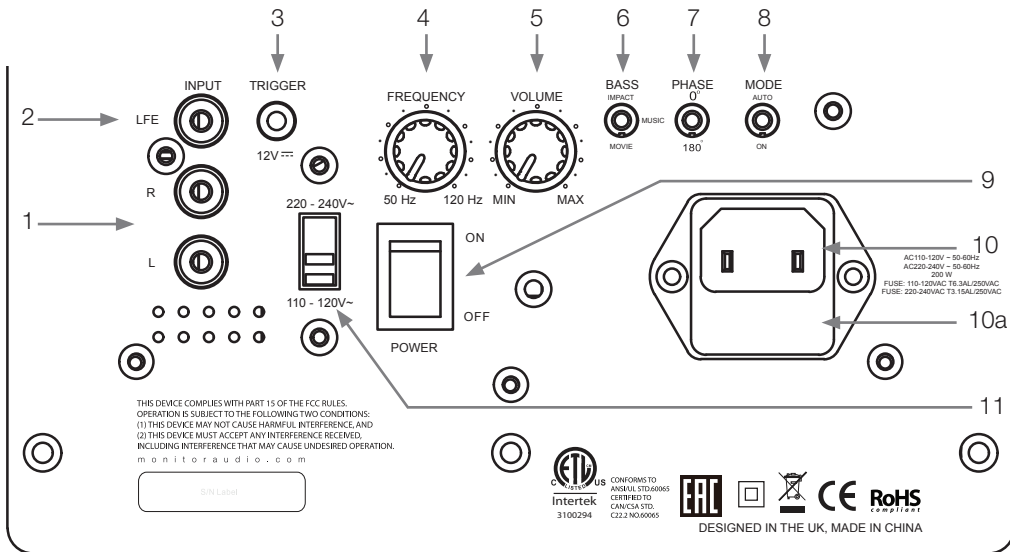
Set Up

Once the input cables are connected and the controls are set in accordance with the initial set-up procedure above, the subwoofer can be connected to the mains power supply and switched on at the mains power switch.

Do not play any music or movies at this stage as the auto set up of the AV amp (if using one) will need to be run. If your amp has an auto set up procedure, run this now. If you do not have an auto set up or are using a stereo amp connected to the left and right inputs, set the crossover in accordance with your main speakers. If using the Radius Series speakers this should be around 80Hz, but experimentation is advisable.

When the auto set up is complete, check that the subwoofer settings on the AV amp are correct. The crossover frequency should be roughly 80Hz and the level should be no more/ less than +/- 3dB. If not we would suggest adjusting accordingly.

Now play a variety of music/ film excerpts that you are familiar with and adjust the level of the subwoofer to a point where it integrates with the rest of the system and to where you are happy. The volume of the amp can then be adjusted to an average listening level once you are sure everything is working correctly to double check your sub woofer level settings.



1. RCA Stereo Inputs (Left & Right)

This is the method of signal input when using a stereo amplifier system, connection can be provided by a pair of high-quality signal cables from the pre-out section of an amplifier. The crossover frequency will need to be set if using this method of connection. If using the Radius Series speakers set the crossover dial to approximately 80Hz. This may vary depending on room and tastes. **Note:-** cable lengths should not exceed 10 metres to avoid interference from other electrical appliances.

2. LFE Input (RCA Type)

This input is to be used when connecting the subwoofer to an AV amplifier/ receiver. When using the LFE input, the crossover frequency dial is not used. This is due to the crossover function being controlled by the AV amplifier/ processor to which it is connected.

3. 12 Volt Trigger Input ~ Centre Pin = +12Vdc

For external power control from AV amplifier/ receiver to the Radius. Monitor Audio recommend using this function and a lead is supplied. A 12 volt signal is supplied by the AV amp/receiver and tells the Radius to turn on from standby mode. This allows a more accurately controlled auto on/off function, and is far more energy efficient. When using the 12v trigger, the Mode Switch (8) can be in any position, for it to function correctly.

4. Crossover Frequency Control

The crossover frequency control only operates when using the RCA stereo input (1) and is used to set the upper frequency limit (low pass) of the subwoofer. The crossover control should be set in accordance with the size or bass output of the main/satellite speakers. When using the Radius Series speakers, set this to around 80Hz. Experimentation is advisable.

5. Volume Control

This control allows the level or volume to be adjusted in order to achieve a balanced overall sound. To use this facility you will need to play a selection of familiar music or film excerpts. Start with the volume at minimum and increase the level control until a balanced sound is established. If using an AV processor or AV receiver amplifier, the system can be adjusted by the test tone function within the set-up features. (Refer to the set up section in the AV processor or AV receiver amplifier user guide.) When the subwoofer is correctly set-up, you should not be able to identify its location easily in the room.

6. Bass Switch

This switch tailors the bass response of the subwoofer to your tastes. There are three settings: Music, Movies and Impact. Movie mode provides a relatively flat response down to 35Hz. Music mode is -2dB down on Movie mode but goes lower, all the way down to 30Hz. Impact mode is +3dB up on Movie mode and comfortably goes down to 40Hz.

7. Phase Control Switch

The Phase Control is used to synchronise any delay between the subwoofer and main/satellite speakers. When the subwoofer is in phase with the main/satellite speakers the sound should be full bodied. Sit in a normal listening position whilst adjusting the phase switch. Help from another person may be required. When set correctly the location of the subwoofer should be almost undetectable. Experimentation is advised in order to achieve optimum results. However it should be noted that in most cases the phase control switch should be set to 0 degrees, especially when using a digital AV processor or AV receiver amplifier.

8. Power Mode Switch with On-Auto Facility

With the switch in the 'On' position, the subwoofer is permanently switched on under all conditions. In the 'Auto' position the subwoofer will automatically switch on when an input signal is received. It will remain on for a period of 15 minutes without receiving a signal before switching into standby mode until a signal is received once more.

Additional Notes on the Auto On Function

When using the auto on feature, the subwoofer will "lock" onto the input it was activated by. In most cases, when using either stereo or LFE input connection this will not matter. However, if using both stereo and LFE connections, you will not be able to toggle between inputs until the subwoofer has gone into standby mode. This can be done manually by turning it off and on again, or by letting it time out (15 minutes) before changing the inputs over.

9. Mains Power Switch

The Mains Power Switch should be switched to the 'Off' position when the subwoofer is unused for extended periods. The switch must be in the 'On' position for the subwoofer to function.

WARNING: Due to the mains switch being located on the rear panel, the apparatus must be located in the open area with no obstructions to access the mains switch.

10. IEC Mains Power Connector/ Fuse Location

The subwoofer is supplied with a two-pin mains input socket for connection to the mains supply. Use ONLY the appropriate IEC mains lead provided with the product. Also fitted is an external mains fuse. If this fuse blows during operation a spare fuse is provided within the fuse holder for replacement. If you wish to change the fuse, you can do this by removing the IEC mains lead and carefully levering out the original fuse from its holder below the IEC mains input socket (10a). If the fuse blows again it is advisable to seek help from an authorised service agent. DO NOT attempt to re-fit a further fuse as this could result in serious damage to the amplifier unit.

11. Mains Voltage Selector

This is factory set to your country's mains voltage specification. Do not attempt to adjust this as this may lead to permanent damage to the product and even the risk of fire. There is a clear plastic cover over the selector to prevent accidental adjustment.

The LED on the top of the cabinet indicates whether the unit is in standby mode or operational. It will be illuminated red when in standby, and green when operational.

Specification

	Radius 380	Radius 390
System Format	Active sub-woofer system – Auxiliary (ABR) loading. 18mm MDF cabinet (CARB2 approved)	
Low Frequency Limit	30Hz (-6dB)	
Upper Frequency Limit	Variable 40 – 120 Hz @ 24dB/Octave	
Amplifier Power Output	140 Watts @ 1% THD+N	200 Watts @ 1% THD+N
Amplifier Classification	Class D amplifier with Switch mode power supply (SMPSU)	
Bass EQ Switch	Music/ Movie/ Impact	
Phase Control	0 & 180 degrees	
Auto Sensing	Line Level >3.5mV	
Input Level Requirements	Standby after approximately 15 minutes if no signal sensed	
Driver Compliment	1 x 8" (200mm) C-CAM® long throw driver. 1 x 8" (200mm) Auxiliary bass radiator	1 x 10" (250mm) C-CAM® long throw driver. 1 x 10" (250mm) Auxiliary bass radiator
Input Impedance	> 20K Ohms	
Mains Input Voltage	AC 110 - 120 V ~ 50/60Hz AC 220 - 240 V ~ 50/60Hz (Factory Region Preset)	
Dimensions (H x W x D) (Including amp & feet)	308 x 290 x 305mm 12 ¹ / ₈ x 11 ⁷ / ₁₆ x 12 Inch	348 x 330 x 345mm 13 ¹¹ / ₁₆ x 13 x 12 ⁹ / ₁₆ Inch
Connections	Stereo RCA in, LFE in, 12v Trigger in (3.5mm mono mini-jack)	
12v Trigger Input	5 - 12v via 3.5mm mono mini-jack socket	
Power Consumption	Standby: < 0.5W (ErP approved) Typical Idle: < 10W Max Rated: 200W	
Weight (unpacked)	10.16Kg (22lb 6oz)	13.76Kg (30lb 4oz)

Trouble Shooting

Should you experience any technical, or set-up problems with your subwoofer please check the Trouble Shooting guide below:

My subwoofer will not turn on/ no power.

- Is the LED illuminated on the top of the unit? If not, check your mains lead is properly connected both at the subwoofer and at the mains outlet. Also check the fuse of the amplifier and mains plug (where fitted).
- Is the LED red? If so, you have power going to the unit. It could be that there is no signal, or the 12v trigger is connected and the source not turned on (see below).
- Have you got the 12v trigger connected? If so, the subwoofer will not power up until the source is turned on.
- Is the unit receiving a signal (12v trigger not being used)? Is the Power Mode Switch in Auto or On position, and signal source turned on? Try adjusting the volume level of the source.

If it still does not turn on/ power up, please contact your local dealer/ distributor or Monitor Audio immediately.

No sound from subwoofer.

- Is the LED on the top red or green? If it is red, then the unit hasn't actually turned on. See above suggestions. If it is green, then your unit is powered up and turned on. Check further suggestions below.
- Are the signal leads connected correctly? Check these. If possible, check by replacing with a second, working set.
- Is the volume level just very low? Try turning the volume on the source up a bit more.
- Have you tried switching input's? If changing from LFE to Stereo (or vice versa), you need to power down the sub woofer first. It will stay "locked" onto the input that activates it.

If it still does not output a signal, please contact your local dealer/ distributor or Monitor Audio immediately.

Owner Information

Product Details

Model

Product Serial No

Date of Purchase

Dealer Details

Dealer Name

Address

Town, Post code, Country

e-mail address

Monitor Audio reserves the right to alter specifications without notice.

Both the craftsmanship and the performance of this product is guaranteed against manufacturing defects for a period of **five** years for speakers from the date of purchase (see conditions in the Important Safety Instructions booklet), provided that the product was supplied by an authorised Monitor Audio retailer under the consumer sale agreement.

To help us find your warranty details within our customer database, should the need arise, please take a few minutes to register your product(s) online at: monitoraudio.com.



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in the United Kingdom**

Made in China

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