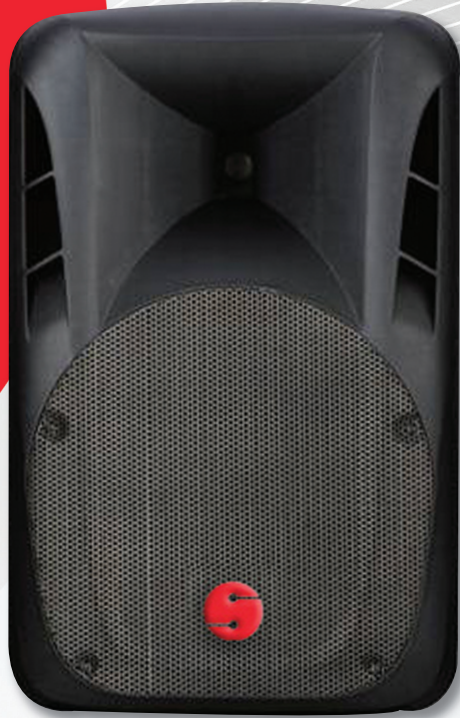




964 North Circular Road, Staples Corner, London, NW2 7JR.

www.studiospares.com

USER MANUAL



FORTISSIMO **MKII**

Loudspeaker
Range

IMPORTANT SAFETY SYMBOLS



This symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions, which may be sufficient to constitute the risk of electric shock or death.



This symbol is used in the service documentation to indicate a specific component that can be replaced only by the component specified in the service documentation for safety reasons.



Protective grounding terminal



Alternating current/voltage



Hazardous live terminal

ON: Denotes the apparatus is turned on

OFF: Denotes the apparatus is turned off.

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the operator.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

1. IMPORTANT SAFETY INSTRUCTIONS

- **Read, keep and follow all these instructions.**
- **Heed all warning.**
- **Water & Moisture:** The apparatus should be protected from moisture and should not be used near water, for example: swimming pools, rain etc.
- **Heat:** The apparatus should be located away from heat sources such as radiators, portable heaters etc

1. Introduction

Thank you for purchasing Studiospares Fortissimo MKII series of professional loudspeakers. These can be used with a 15" subwoofer to extend the LF response. These speakers consist of a high quality bass driver and HF compression driver to deliver a clear /delicate /wide dynamic tone. The high strength polypropylene enclosure helps avoid standing waves and makes the sound more precise. The handles are positioned for convenient transportation.

2. Precautions

To avoid any incidents and (or) damages to either the user or device please follow the safety precautions, which are included but not limited to the following:

- To prevent damage during transportation, use original packaging provided by supplier. After transportation inspect device to ensure that it has sustained no damage.
- These devices can produce SPL (Sound Pressure Levels) that can surpass 90dB, which is capable of causing permanent hearing damage. When operating the device, make sure it is set to an appropriate volume level.
- Please consult a professional technician if you are wanting to mount the speaker with the Wall Bracket.
- Only use the speaker bracket or other matched brackets made by Studiospares to support the speakers.
- Make sure to place the bracket on a flat, anti-skid surface.
- The bracket's foot must be opened as wide as possible to ensure its stability.
- Make sure it is locked in place using the fixed bolt.
- Make sure to avoid acoustic feedback as this can cause hearing damage and also damage the device.
- Do not unplug the audio signal cable when the amplifier is still on.

3. Features

- Constant directivity horn, even audio in the coverage.
- Lightweight Polypropylene injection enclosure providing a more powerful sound.
- Built-in LC crossover, HF protection circuit with low noise.
- Multi-angle to suit for stage monitoring
- Three handles for convenient transportation
- 5x M10 suspension points to ensure safety and reliability; quick set up. Also mountable onto speaker stands

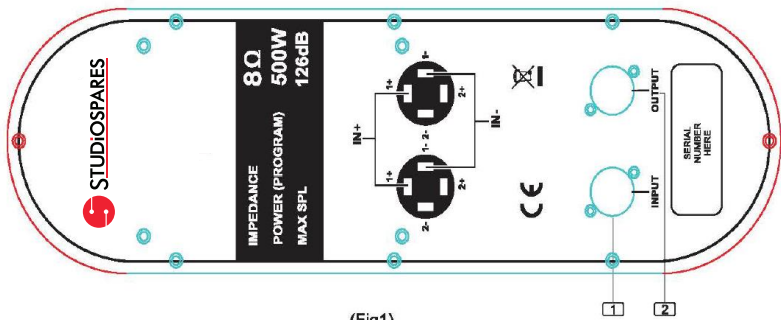
4. Safety Instructions

Read this before operating the device.

1. Before connecting the A. C. power cord make sure the Voltage Selector is set for your local A.C. supply voltage.
 - For supplies between 220 and 240V ensure it is set to 230V.
 - For supplies between 110 and 120V ensure it is set to 115V.
2. Only use the A. C. power cord/mains lead supplied with this product. Replace if it becomes damaged in anyway.
3. Never operate without, or remove the safety ground (earth) from the A. C. Power cord/mains lead.
4. Do not attempt to remove any screws or panels. There are no user serviceable parts inside.
5. Do not operate the unit next to heat sources such as radiators.
6. The unit should not be operated or stored near rain or moisture.
7. Write the serial number in the box provided in the Warranty section for future reference.
8. If the unit gets damaged, has been dropped or appears to have developed a fault refer to the Service Information section for details.

WARNING: THIS APPARATUS MUST BE EARTHED (GROUNDED)

Panel operation

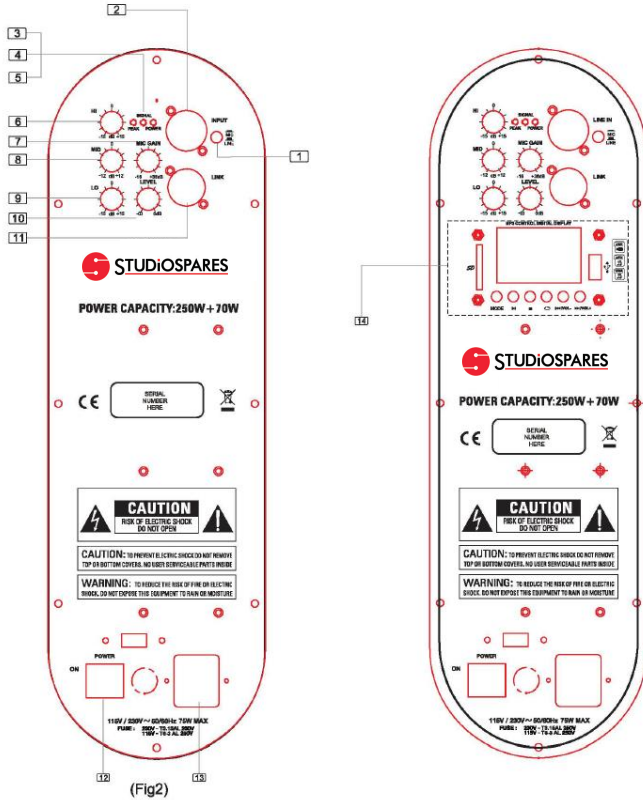


(Fig1)

Passive Panel (Fig1)

1. Speaker socket -connect to power amplifier.
2. Speaker socket -can be used to link addition speakers.

Active Panel (Fig2)



1. Line/Mic switch: - Press this switch for a mic level input and release for a line level input.
2. Audio Input: - Combination XLR and JACK socket suitable for microphones and line level equipment.
3. Clip LED (PEAK):- When the signal level is close to peak, this LED lights up. Please reduce the signal level to avoid distortion.
4. Signal LED: When receiving an audio signal, this LED lights up.
5. Power LED: When the unit is receiving power, this LED lights up.
6. HF knob: - It boosts or attenuates HF more than 10KHz by 15dB.
7. Microphone/Line Gain Control.

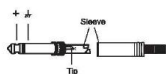
8. MF knob: - It boosts or attenuates MF more than 2.5KHz by 12dB.
9. LF knob: - It boosts or attenuates 15d B of LF below 100Hz.
10. Volume knob (LEVEL)
11. Line out connector (LINK): - Balanced XLR output to link with another active speaker cabinet or other equipment.
12. Power Switch
13. AC power socket/fuse holder (FUSE).
14. Mp3/WMA file player for models 10A/12A/15A only.

The following formats can be used:

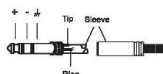
- Bluetooth, SD card and USB Flash Drive
- For the SD card or USB input, connect either and use the MODE button to select the input source.
- For Bluetooth use the MODE button to select input source. When pairing a Bluetooth device the speaker will be identified with a headphone symbol and the default name is 'Bluetooth'.
- The 5 buttons below the screen: - Play/Forward/Back/Replay/Modes.
- To adjust the volume of the player press and hold either of the 2 buttons to the right. A volume bar will appear on the screen and the volume will change using either button.

Wiring

• For 1/4" phone jack



1/4" TS connector
Unbal input/output



1/4" TRS connector
bal input/output

• For XLR



XLR (male)
Pin 2=+, Pin 3=-, Pin 1=ground



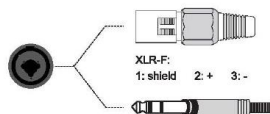
XLR (female)
Pin 2=+, Pin 3=-, Pin 1=ground

• For speaker connector



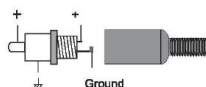
Speaker connection

• combo



combo-XLR connector

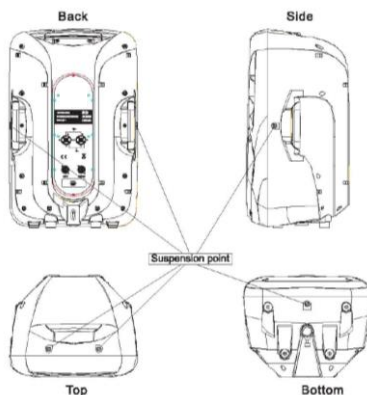
• For RCA



5. Installation

The Fortissimo MKII Series of loudspeakers can be suspended or mounted on a 35mm speaker stand, or be used as stage monitor.

1) Suspension:

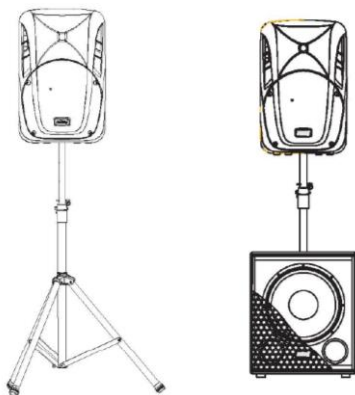


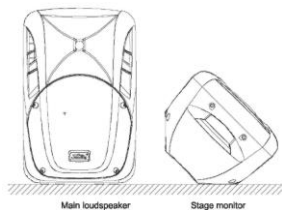
The Fortissimo MKII Loudspeakers have 5x M10 suspension points:

- Top = 2
- Bottom = 1
- Side = 2
- M10X20 ring bolt can be used for suspension.

2) Mounted on a speaker stand.

- Open the stand feet and insert the safety pin.





6. Optional parts

Optional parts are available. Please contact our sales team or check our website:
www.studiospares.com.



Height: 800~1340mm
 Load capacity: 50kg
 Material: iron



M10 ring bolt

7. Specification (Passive)

Model	10P	12P
Type	10" 2 way passive full range speaker cabinet.	12" 2 way passive full range speaker cabinet.
Frequency Response	60Hz – 20KHz	50Hz – 20KHz
Sensitivity	94dB	96dB
Impedance	8Ω	8Ω
Rated Power	200W (RMS), 800W (Peak)	250W (RMS), 1000W (Peak)
Crossover Frequency	2.5KHz	2.0KHz
LF Unit	12" MFLF /65mm voice coil/200W	12" MFLF /65mm voice coil/200W
HF Unit	34mm compression driver/1 inch throat/30W	34mm compression driver/1 inch throat/30W
Coverage	90°x60°	90°x60°
Max SPL	123dB	126dB
Input Connection	2xM10	5x M10
Dimension	335x545x319 (mm)	390x630x360 (mm)
Weight	13 kg	

Model	15p
Type	15" 2 way passive full range speaker cabinet
Frequency Response	45Hz--20KHz
Sensitivity	97dB
Impedance	8Ω
Rated Power	300W (RMS), 1200W (Peak)
Crossover Frequency	2.0kHz
LF Unit	15R MFLF /65mm voice coil/300W
HF Unit	34mm compression driver/1 inch throat/30W
Coverage	90°x60°
Max SPL	128dB
Input Connection	Jack/Speakon
Dimension (W x H x D)	450 x 710 x 370 (mm)
Weight	20.4 kg

7a. Specification (Active)

Model	10a	12a
Type	10" 2 way active full range speaker cabinet.	12" two way active full range speaker cabinet
Frequency Response	60Hz – 20KHz	50Hz-20KHz
Input Sensitivity	Line = 0dB/Mic = -40dB	Line = 0dB/Mic = -40dB
Max SPL	121dB	124dB
Rated Power	200W (LF) + 50W (HF)	250W (LF)+ 70W (HF)
LF Unit	10" Driver /50mm Voice Coil/150W/8Ω	12" Driver/50mm Voice Coil/200W/8Ω
HF Unit	34mm Compression Driver/1 Inch Throat/30W/8Ω	34mm Compression Driver/1 Inch Throat/30W/8Ω
Crossover Frequency	2.5KHz	2.5KHz
Coverage	90°x60°	90°x60°
Input Connection	Jack/XLR/SD/USB	Jack/XLR/SD/USB
Input Voltage	230V/115V (Switchable)	230V/115V (Switchable)
Suspension	5 x M10	5 x M10
Dimensions	335x545x319 (mm)	390x630x360 (mm)
Weight	14kg	17kg

Model	15a
Type	15" 2 way active full range speaker cabinet.
Frequency Response	45Hz – 20KHz
Input Sensitivity	Line = 0dB/Mic = -40dB
Max SPL	125dB
Rated Power	250W (LF) + 70W (HF)
LF Unit	15" Driver /50mm Voice Coil/200W/8Ω
HF Unit	34mm Compression Driver/1 Inch Throat/30W/8Ω
Crossover Frequency	2.0KHz
Coverage	90°x60°

Input Connection	Jack/XLR/SD/USB
Input Voltage	230V/115V (Switchable)
Suspension	5 x M10
Dimensions	450x710x370 (mm)
Weight	20.2kg

8. Service Information

- If you have a problem with your Studiospares product or think it has developed a fault you should first carefully check the Trouble Shooting section in this guide. If this does not solve the problem or if the product is physically damaged, contact your nearest branch for service details.
- Should it be advised that you return the product to your nearest Studiospares Service Centre you must first contact them. You will be asked for the product type and serial number. You will then be given a returns Authorisation (RA) number.
- Place the unit in its original packaging to protect it from damage in transit. Studiospares cannot be held responsible for damage resulting from the equipment being packed incorrectly.
- Label the equipment clearly with your name and address and include a clear description of the fault. The more information you provide for the service engineer can minimise the repair cost when out of warranty.

Please write your serial number here for future reference:

9. Troubleshooting

Problem	Reason
Power LED does not light up.	Check if power the power cable is connect correctly. Check if the power switch is set to ON? Check if the amp fuse is broken?
No Audio Output	Check if the system is connected correctly? Check that the power switch is turned on? Check if there is a signal input.
Distortion	The signal level may be too high? Check if PEAK LED lights are lit?
Insufficient SPL	Volume Level/Gain might be set too low. Check that the speaker is receiving a high enough audio signal.

10. Unpacking

Remove your Studiospares product from its packaging and check you have the following:

- Speaker cabinet
- Power cord (*Not supplied with passive models*)
- User guide