



# fact signature

user guide

Model

No.

Hand built by

Date



**fact**<sup>®</sup>

**/fakt/**

*A thing known to be true with  
complete certainty.*

# THE SPEAKERS THAT MAKE MUSIC



# CONGRATULATIONS

You have joined the elite. You're a PMC user.

Our loudspeakers can be found in all the world's best listening environments, from audiophile living rooms to internationally renowned recording, mastering, broadcast and post-production studios. Our Emmy-award-winning systems are used to create everything from smash Hollywood soundtracks to hit albums by artists including Coldplay, Kraftwerk, Elton John and Adele, as well as audiophile jazz and classical recordings on Deutsche Grammophon, Decca, Philips and Harmonia Mundi.

Whether you listen to our speakers in world-class studios in LA, London, Berlin or Tokyo, or in your favourite listening room at home, you will hear the music exactly as the artist intended it.



PMC's Emmy® award  
©ATAS/NATAS

Register your

**fact**signature

loudspeakers online

[www.pmc-speakers.com](http://www.pmc-speakers.com)



# USER GUIDE

## Contents

- 7 General usage guidelines
- 8 Our meticulous attention to detail
- 9 Unpacking
- 10 Spike Installation guide
- 11 Connections
- 12 Connecting to an amplifier **fact.8**
- 13 Connecting to an amplifier **fact.12**
- 14 Running in
- 15 Positioning
- 17 Stereo set-up
- 18 Surround sound specific set up
- 19 Ideal 5.1 surround sound set up
- 20 Ideal 7.1 surround sound set up
- 21 Fine tuning for perfect sound
- 25 Service
- 26 Specifications
- 27 Warranty on-line
- 28 Warranty certificate - Part 1 - Your copy
- 29 Warranty certificate - Part 2 - Our copy
- 30 Your comments – Help us improve
- 31 Inspection certificate

# GENERAL USAGE GUIDELINES

- 1 Read these instructions and keep them in a safe place for future reference.
- 2 Heed all electrical safety warnings, including any on the loudspeakers themselves.
- 3 Do not use the loudspeakers near water.
- 4 We have provided a high quality Microfiber cloth for cleaning. This is ideal as the cabinet should only be cleaned with a dry, lint-free, cloth. Do not use solvents, abrasives, waxes or liquids as they may be detrimental to the finish.
- 5 Floor spikes are sharp and should be treated with great care during installation and use.
- 6 Do not install near any heat sources such as radiators, ovens or other equipment that produce excessive heat.
- 7 Unplug this product from both source and power during electrical storms or when unused for extended periods of time.
- 8 Packing material can pose danger to the young and vulnerable. Ensure these items are kept or disposed of safely.
- 9 High volume audio signals, however short their duration, have the potential to cause hearing damage. Use care when setting the system volume level to ensure playback sound pressure levels remain within safe comfortable limits.
- 10 Do not attempt to service the equipment. There are no user serviceable parts inside. Please refer all servicing to PMC authorised personnel.
- 11 Servicing is required when the apparatus is damaged, exposed to moisture, or exhibits a distinct or sudden change of operation or audio performance.
- 12 PMC has made efforts to provide accurate installation information and good quality fixings. The Professional Monitor Company Limited (PMC) will not be held responsible or liable for injuries or property damage - direct, indirect or consequential - arising out of use or inability to use this product safely and properly.
- 13 **fact** loudspeakers contain powerful magnets and may have a detrimental effect if left in close proximity to magnetically sensitive items, e.g.: CRT televisions or monitors and media such as floppy discs, audio and videotapes.

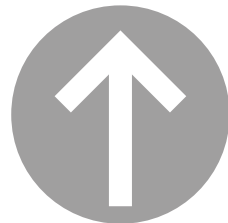
# OUR METICULOUS CARE & ATTENTION

All PMC loudspeakers are hand-built in the U.K. using individual components that are matched to our reference model; this includes the structural integrity of every cabinet and the testing and recording of each component. This guarantees it will be within our strict tolerances and ensures your purchase sounds identical to the original design. Each completed loudspeaker then undergoes a set of objective and subjective measurements - frequency response sweeps ensure that the design meets our exacting performance criteria, and then listening tests are conducted against the reference model using a wide variety of material, from a benchmark BBC speech test to classical music, pop and rock.





# UNPACKING



Please retain your packaging for future use as all PMC cartons are durable, reusable and can be employed to safely transport your loudspeakers should they be relocated or returned for servicing.

Much of the packing is constructed from recyclable materials, so if you are to dispose of it please do so in an environmentally friendly manner.



Packing materials can pose danger to animals, the young and vulnerable. Ensure these items are kept or disposed of safely.



# SPIKE INSTALLATION GUIDE

Spikes are used to enhance performance and allow the loudspeaker to be levelled perfectly. **fact** spikes are reversible, with spike or ball tips for use on either carpeted or more sensitive hard flooring.

Note: If you require additional protection when using the ball ended tips on hard flooring then use the handy protection caps included.

- 1 Carefully invert the loudspeaker so that its base is uppermost. Take care not to damage the top of the loudspeaker when it is upside-down, the use of a soft cloth or square of carpet is suggested.
- 2 Thread each spike with one of the supplied knurled collars/nuts.
- 3 Select the type of tip you wish to use. Generally spikes are used for carpeted floors and ball ends for hard floors.
- 4 The spikes can then be inserted into the threaded hole.

Caution: Spikes are sharp and should be treated with great care and may damage hard flooring if in direct contact.



- 5 Re-invert the loudspeaker.
- 6 Once in position, level the loudspeaker by adjusting each spike in turn using the spirit level on the top of the cabinet to confirm. While this might seem a time-consuming exercise, it is important both in terms of system performance and the stability of the loudspeaker.
- 7 The final step is to tighten each knurled collar/nut; this will ensure that the spike and loudspeaker are as rigid as possible.



# CONNECTIONS

## Caution

To avoid potential damage, please ensure that your power amplifier(s) or receiver is turned off before connecting or disconnecting your loudspeakers.

## Cable & connectors

When selecting cables for use with your **fact** loudspeakers, ensure that their construction is of a high enough standard to withstand the rigors of everyday use and that they are suitably terminated. While bare wire can be accommodated by the **fact Ag** binding posts, we recommend the use of either spade lugs or 4mm 'banana' plugs in order to maintain an electrical connection of the highest integrity and avoid the possibility of short circuits. Please consult your dealer for more information regarding cable lengths and termination options.

## Polarity + & -

It is of vital importance to observe the polarity markings and maintain positive-to-positive and negative-to-negative connections from amplifier or receiver to the loudspeaker. The **fact Ag** terminals are colour-coded to aid in their identification, positive terminals are red, negative terminals are black.

# Plugging them in

# CONNECTING TO AN AMPLIFIER

## Standard / Single wiring connection

This is the most common using a single cable with two conductors. Connect using any of the two pairs of RED+/BLACK- terminals. Ensuring the **fact Ag** silver linking bars are secure and the binding posts are finger tight.

## Advanced connection / Bi-wiring & Bi-amping

**fact** models with four binding posts can be bi-wired or bi-amped.

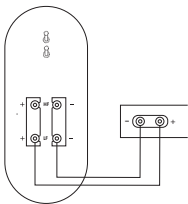
By loosening all four rear binding posts, the silver bridging plates can be removed thus enabling separate signals to be fed to the low (Woofer) and high frequency (Tweeter) drivers. Ensure the binding posts are re-tightened after the bridging bars are removed. Both bi-wiring and bi-amping require the use of two lengths of cable per speaker. Bi-amping requires two separate amplifiers; one for each driver. Please consult your dealer regarding the benefits and the correct procedure.

## Terminal identification

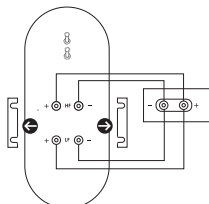
Top pair of terminals - HF / High Frequency / Tweeter

Bottom pair of terminals – LF / Bass Frequency / Woofer

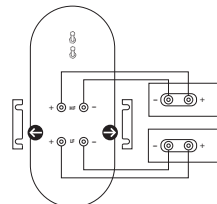
## Back panel diagrams



Standard/single wiring



Bi-wiring



Bi-amp wiring

# CONNECTING TO AN AMPLIFIER

## Standard / Single wiring connection

Connect using any of the three pairs of RED+/BLACK- terminals. Ensure the linking bars are secure and the binding posts are finger tight.

## Advanced connection

The **fact.12** can also be bi-wired, bi-amped, tri-wired or tri-amplified. By loosening all six rear binding posts, the linking bars can be removed so separate signals can be fed to the LF (Woofer), MF (50mm Dome) and HF (Tweeter) drivers. Ensure the binding posts are re-tightened after the linking bars are removed.

Both bi-wiring and bi-amping use two lengths of cable per speaker, tri-wiring and tri-amping use three lengths per speaker. Bi-amping also uses two separate amplifiers; tri-amping uses three, one for each driver.

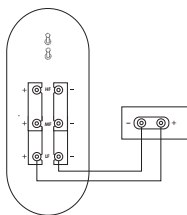
## Terminal identification

Top pair of terminals - HF / High Frequency / Tweeter

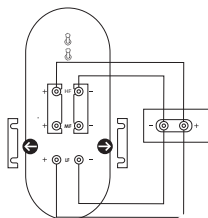
Middle pair of terminals - MF / Mid Frequency / 50mm Dome

Bottom pair of terminals - LF / Bass Frequency / Woofer

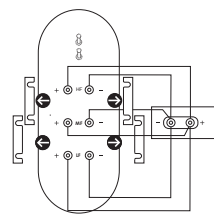
## Back panel diagrams



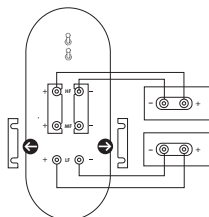
Standard/single wiring



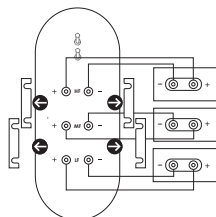
Bi-wiring



Tri-wiring



Bi-amp wiring



Tri-amp wiring

## RUNNING IN

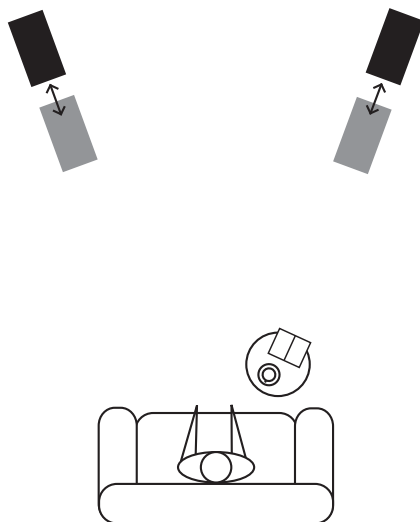


**50**  
HOURS

All loudspeakers attain their optimum performance after a short 'running in' period.

As the soft material surrounding the dome or woofer cone is flexed, it eventually reaches optimum compliance, allowing the drive unit to move more freely. This translates to greater accuracy and speed of attack in the bass region, and a truer, more vivid audio picture in the mid and high frequencies.

# POSITIONING



With their unique **ATL™** Advanced Transmission Line design, wide dispersion, ultra low distortion and smooth bass roll-off, PMC loudspeakers are more forgiving of difficult room conditions and placement constraints than conventional designs - you will be able to achieve a superb sound throughout the room with little effort. We do encourage you to spend some time experimenting in your own room in order to achieve the very best results. Remembering that small changes in location can often influence system performance.

Room shape, size, construction and interior decoration vary immensely and therefore influence sound in different ways. The following guidelines are suggestions for the starting point to locate your new speakers. Fine-tuning of their positioning can start from here.

## POSITIONING (CONT.)

- Place the speaker so the front face is slightly forward of any large object that protrudes into the room - this could be a fireplace, bookcase or television for example.

**TIP** – See stereo set up diagram

- Ensure that stereo pairs of loudspeakers are equidistant from the listening position.
- It is best to position the front left/right pair (and centre channel loudspeaker if you have a surround system) at the same height, usually at ear-level when seated at the listening position.

**TIP** – If any of the speakers are mounted above or below ear level, then angle the speaker towards the listening position.

- The distance between your left/right speakers and the listening position should ideally create an equilateral triangle. As a general rule, the width of the audio picture will be narrow if the speakers are too close together. If they are too far apart the picture will be wide but there will be less central definition.

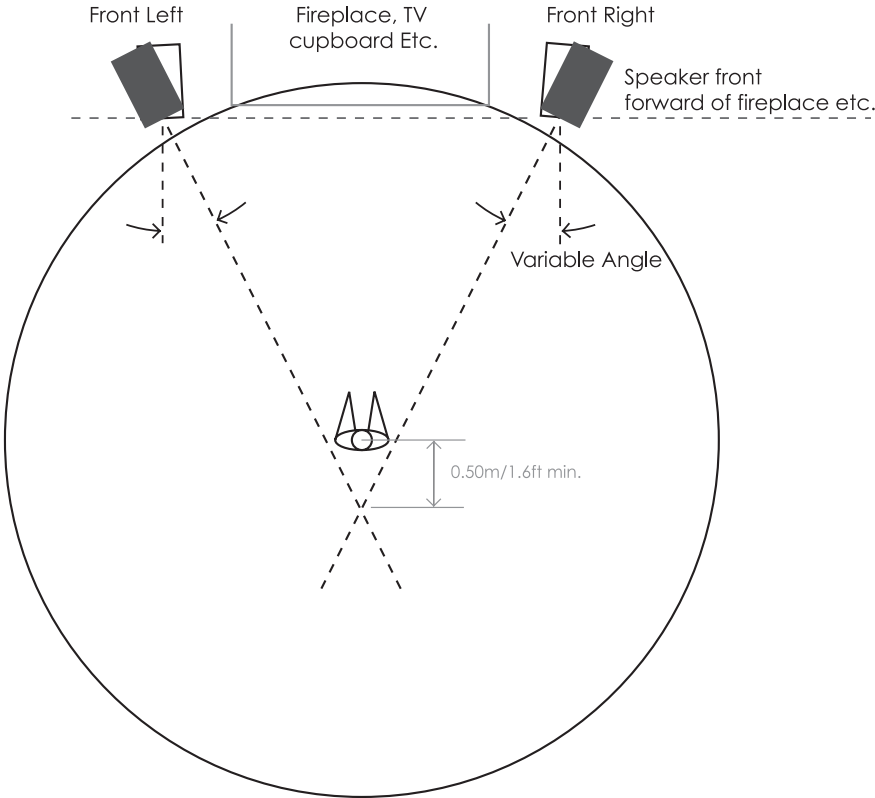
**TIP** – Use a well recorded vocal track to judge the ideal spot.

- To further enhance the audio picture or soundstage the speakers can be angled/toed-in'. Start with the speakers angled so they will cross approximately 50cm (2ft) behind the listening position. (See stereo set-up diagram) Varying this angle will also subtly affect the vividness of the audio picture, so again experiment.

**TIP** - A simple well recorded band with vivid vocals will help to achieve the best position



# STEREO SET UP



# SURROUND SOUND SPECIFIC SET UP

## 5.1 Systems

The **fact** range has been designed for perfect multi channel music or movie playback and the following diagrams display the ideal layout for the speakers.

**TIP** – No doubt the constraints of room size and shape will vary the distances from the listener to the speakers. Therefore use of the time alignment function of your surround processor will be important.

**TIP** – The guidance given in the 'Stereo set up and 'Fine tuning for perfect bass' also apply to the set up of a surround system.

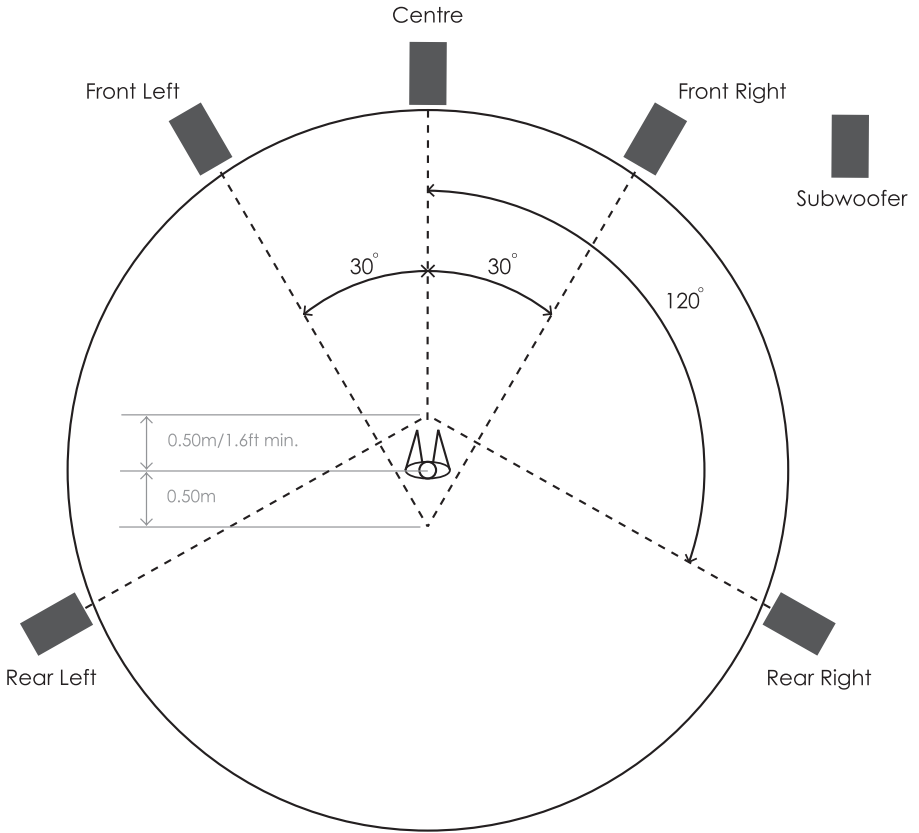
## NB

### 7.1 Systems

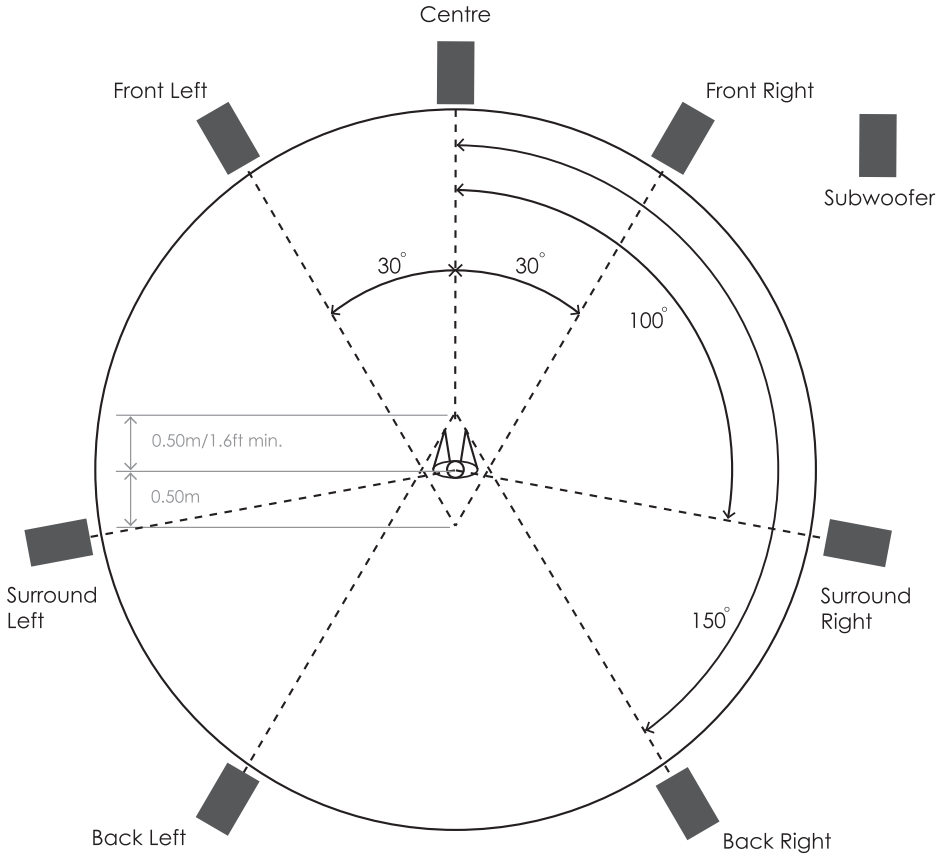
In a system capable of full 7.1 Dolby® Digital Surround EX™, DTS® ES™, Blu-ray™ or HD DVD™ playback there will be two sets of surround speakers. The first pair should be positioned at 100° and the second set at 150°. (The centre is considered 0° while directly to the rear of the room is 180°). See Ideal 7.1 surround set up diagram.

Dolby® Digital Surround EX™ is a registered trademark of Dolby® Laboratories  
DTS® ES™ are registered trademark of DTS®, Inc  
Blu-ray™ is a trademark of the Blu-ray™ Disc Association  
HD DVD™ is a trademark of the DVD Format/Logo Licensing Corporation (DVD FLLC)

# IDEAL 5.1 SURROUND SET UP



# IDEAL 7.1 SURROUND SOUND SET UP



# FINE TUNING FOR PERFECT SOUND

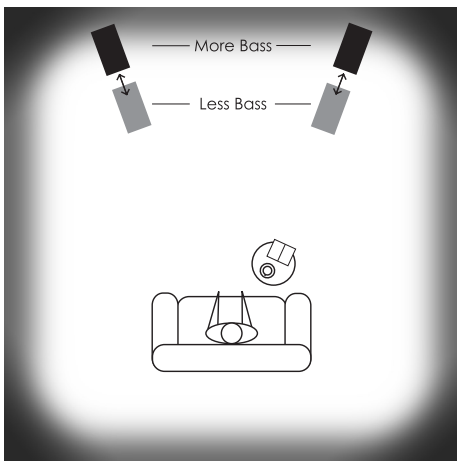
**TIP** – Ensure both HF & LF adjustment switches are in the zero position on the rear panel of both loudspeakers (See **fact** back panel diag.)

**TIP** – If your amplifier has tone controls set them in the flat/zero position, or if your amplifier features a defeat/direct button use this function. This will ensure there is no addition or reduction in bass or treble before the loudspeaker which would make the fine tuning process confusing.

## How your room can effect bass

Solid boundaries (i.e. walls, ceilings and floors) reflect sound and help to contain it within a room. They make a speaker sound louder the closer they are to them, especially in the low frequency (bass) region.

This diagram shows the areas, that if a speaker is positioned, will either increase or decrease bass - The darker the shading the more bass will be heard. Placing the speakers in the corners will generate the most bass, and in the centre of the room, the least bass.



# FINE TUNING FOR PERFECT SOUND

## Take control

With **fact** the problems of combining the various sound signatures of electronics, cables and above all room acoustics are now resolved. Our design team have engineered an elegant and effective solution to this previous insurmountable issue.

Set within the solid, brushed anodised rear panel are audiophile grade switching that allow the tailoring of the loudspeaker's bass and high frequency response.

This fine-tuning will ensure the perfect sound balancing any room and with any source combination.

The diagram illustrates the rear panel of the fact:8 speaker, which is a dark, brushed metal oval. At the top, the 'fact' logo is visible. Below it are two control knobs: 'HF' (High Frequency) and 'LF' (Low Frequency). The 'LF' control is marked with '0', '-1', and '-2'. Below the knobs are three circular indicators and the 'PMC' logo. At the bottom, there are two sets of speaker terminals labeled 'HF' and 'LF'. The panel also features a CE mark, a crossed-out trash can icon, and the 'ATL' logo with 'Technology made in the UK'. The serial number 'fact:8 No 000000' is printed at the bottom.

**HF - High Frequency**

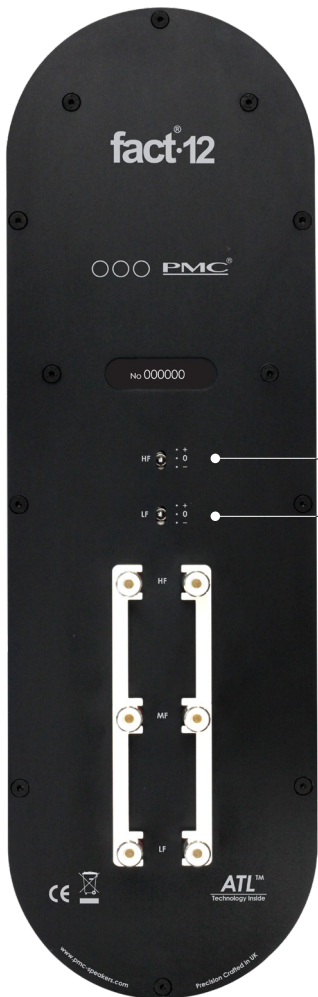
- + More treble
- 0 Flat, No adjustment
- Less treble

**LF - Low Frequency**

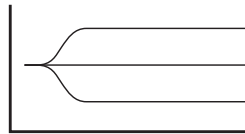
- 0 Flat, No adjustment
- 1 Less bass
- 2 Further reduced bass

**Warning:** Always mute your amplifier whilst adjusting the HF & LF controls

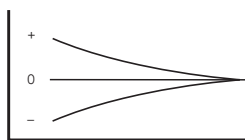
# FINE TUNING FOR PERFECT SOUND



Always mute your amplifier whilst adjusting the HF & LF controls



HF - High Frequency



LF - Low Frequency

# FINE TUNING FOR PERFECT SOUND

- 1 Position your speakers so the bass is as clear and defined as possible using various styles of well recorded music - remembering that more bass isn't necessarily better.
- 2 You now have the option to fine tune the bass response using the LF (Low Frequency response) switch. If you require a reduction then use one of the negative positions. N.B. The **fact.12** features a unique bass lift (LF+) option. If you require a subtle increase in bass to provide a deeper, richer sound move it to the + position.
- 3 Again, repeat the process by checking how the bass sounds using various styles of music and adjust accordingly.

## **Treble / HF (High Frequency adjustment)**

The HF adjustment switching on the **fact** models will compensate for the following:

### **In the + position**

This will subtly increase the HF/High frequency output to compensate for softer sounding source equipment or dull absorbent rooms i.e. rooms with an abundance of soft furnishings, carpets etc

### **In the – position**

This will subtly decrease the HF/High frequency output to compensate for bright sounding source equipment or lively highly reflective rooms i.e. minimally furnished rooms with hard flooring and very little soft absorbent materials.

Good quality speech or a well recorded vocal should sound defined and completely natural and free from sibilance when the HF switch is in the correct position.

**TIP** – You will often find good quality speech on an FM broadcast by a national broadcaster.



# SERVICE

We are confident your **fact** loudspeakers will afford many years of trouble-free listening of the highest order. But in the unlikely event that one or more requires repair, our unique manufacturing procedure, wherein the precise value of each component together with the response of the system as a whole is recorded, will ensure that any replaced parts will exactly match the performance of those originally included within each individual loudspeaker.

For any issues that might arise or for advice and service requirements, the primary point of contact should be your knowledgeable and authorised PMC dealer/distributor.

If you do not have a local representative please see [www.pmc-speakers.com](http://www.pmc-speakers.com) and click on 'Where to buy'.

Alternatively you can view our FAQ's (Frequently Asked Questions) and servicing section on our website. (Click on the contacts section and select FAQ).



Important Note: Please do not return any products to PMC directly without first contacting our service department.

# SPECIFICATIONS

## fact·8<sup>®</sup> signature

<b>Freq response</b>	28Hz – 30kHz
<b>Sensitivity</b>	89dB 1w 1m
<b>Effective ATL™ length</b>	3m (9.8ft)
<b>Impedance</b>	8 Ohm
<b>Drive units</b>	<b>LF</b> 2 x PMC <b>fact</b> 140mm/ 5.5" precision drivers <b>HF</b> 1 x PMC <b>fact</b> 19mm high res SONOMEX™ Soft dome, Ferrofluid cooled with 34mm surround
<b>Crossover freq</b>	1.7kHz
<b>Input connectors</b>	2 pairs 4mm sockets PMC <b>Ag</b> terminals (Bi-amp or Bi-wire)
<b>Dimensions</b>	<b>H</b> 1030mm (+ 25mm spikes) x <b>W</b> 155mm (+80mm ingot feet) x <b>D</b> 380mm (+ 23mm <b>Ag</b> terminal)
<b>Weight</b>	20kg            44lbs

## fact·12<sup>®</sup> signature

<b>Freq response</b>	26Hz – 30kHz
<b>Sensitivity</b>	84dB 1w 1m
<b>Effective ATL™ length</b>	3.3m (11ft)
<b>Impedance</b>	8 Ohm
<b>Drive units</b>	<b>LF</b> 2 x PMC <b>fact</b> 140mm/ 5.5" precision drivers <b>MF</b> 1 x PMC <b>fact</b> 50mm/ 2" Soft dome ferro-fluid cooled mid-range with machined aluminium dispersion plate <b>HF</b> 1 x PMC <b>fact</b> 19mm high res SONOMEX™ Soft dome, Ferrofluid cooled with 34mm surround
<b>Crossover freq</b>	400Hz & 4kHz
<b>Input connectors</b>	3 pairs 4mm sockets PMC <b>Ag</b> terminals (Bi-amp/ wire or tri-amp/ wire)
<b>Dimensions</b>	<b>H</b> 1100mm (+ 25mm spikes) x <b>W</b> 168mm (+100mm ingot feet) x <b>D</b> 420mm (+ 23mm <b>Ag</b> terminal)
<b>Weight</b>	26kg            57lbs

# WARRANTY ONLINE

Simply activate your 20 year  
warranty online



**GO TO [WWW.PMC-SPEAKERS.COM](http://WWW.PMC-SPEAKERS.COM) AND CLICK ON SUPPORT, REGISTER PRODUCT**

**If you do not have access to the internet fill in the  
warranty form found on pages 29 & 30 and post it to us**

# WARRANTY CERTIFICATE - PART 1

**Please complete and retain this page for your own records**

Product

Serial Nos

Date of purchase

Dealers name

Dealers address

Town

County

Postcode

Dealers Telephone No

**Servicing and warranty issues – Please read the following carefully.**

**Non UK clients**

Contact your local dealer/distributor for the details of warranty repairs - see [www.pmc-speakers.com](http://www.pmc-speakers.com) and click on distribution for their details.

**UK clients**

In the unlikely event of a fault occurring with your PMC product firstly contact your dealer where the product was purchased.

Do not return a product to PMC without firstly contacting our technical dept. If the product must be returned for service you will be issued with a Returns Authorisation number.

If a product is returned to PMC and subsequently is found to have no fault or a non-warranty fault it will be subject to a minimum of £50.00 plus the carriage for its return.

Proof of purchase is required for any claim covered by this warranty.

This product is warranted for a period of 5 years from the date of purchase or upon receipt of 'our copy' overleaf or on-line registration within ten days of purchase or receipt.

The warranty covers defects due to faulty materials or workmanship but does not cover defects arising from accidental damage, misuse or wear and tear. The warranty is void if any attempt has been made by persons not authorised by PMC to dismantle, repair or modify any part of the product.

Products must be returned using original packing material. This warranty does not cover damage in transit.

Note that the cost of the carriage to PMC is not covered by the warranty.

Returned products that are defective that are covered by warranty will be repaired or replaced at the discretion of PMC.

Allow minimum of 14 working days for return of warranty repairs.

This warranty does not effect your consumer rights under statutory law. This warranty certificate is only valid in the United Kingdom.

PMC Holme Court, Biggleswade SG18 9ST United Kingdom T: +44 (0)1767 686300

# WARRANTY CERTIFICATE - PART 2

**OUR  
COPY**

**Please complete and return this section - or simply complete the on-line registration at [www.pmc-speakers.com](http://www.pmc-speakers.com) and click on support, register product.**

Help us improve  
our products  
see over



# YOUR COMMENTS - HELP US IMPROVE

We value all our client's comments. Please take a moment to help us improve:

If there is one thing we should change, what would it be?

Please tell us how your new PMC's perform. Your comments may appear on the customer quotes section for this product on our site. N.B. Don't worry the comments will be anonymous; your personal details will not appear.

What magazines do you read?

HiFi	Pro	Lifes style	Online
<input type="checkbox"/> HiFi Choice	<input type="checkbox"/> Future Music	<input type="checkbox"/> T3	<input type="checkbox"/> mixonline.com
<input type="checkbox"/> What HiFi	<input type="checkbox"/> Sound on Sound	<input type="checkbox"/> Stuff	<input type="checkbox"/> gearslutz.com
<input type="checkbox"/> Stereophile	<input type="checkbox"/> Audio Media	<input type="checkbox"/> GQ	<input type="checkbox"/> avreview.co.uk
<input type="checkbox"/> HiFi World	<input type="checkbox"/> Pro Sound News	<input type="checkbox"/> EVO	<input type="checkbox"/> techradar.com
<input type="checkbox"/> HiFi Critic	<input type="checkbox"/> Resolution	<input type="checkbox"/> FHM	<input type="checkbox"/> HiFi WigWam.com
<input type="checkbox"/> HiFi News	<input type="checkbox"/> Audiofanzine	<input type="checkbox"/> Shortlist	<input type="checkbox"/> What HiFi.com
<input type="checkbox"/> HiFi+	<input type="checkbox"/> IBE	<input type="checkbox"/> Maxim	<input type="checkbox"/> the-ear.net
<input type="checkbox"/> Gramophone	<input type="checkbox"/> Tape Op	<input type="checkbox"/> Esquire	<input type="text" value="Other"/>
<input type="text" value="Other"/>	<input type="text" value="Other"/>	<input type="text" value="Other"/>	

We hope you enjoy your latest purchase as much as we enjoyed designing and building them - Thank you.

# INSPECTION CERTIFICATE

Every component that appears in a PMC product is measured, tested, matched and recorded by hand. This analysis also applies to the final product we build to ensure you receive an identical replica of the reference model.

Crossover matching

Enclosure finish

Assembly & Wiring

Driver Installation

Enclosure seal

Level - Frequency

Impedance - frequency

Pair matching

Listening test 1

Listening test 2

Final inspection

Accessory pack

User Guide

All the above has been carefully checked by the builder of your **fact** series loudspeakers







- This product complies with international directives, including RoHS (the Restriction of Hazardous Substances in electrical and electronic equipment) and WEEE (the disposal of Waste Electrical and Electronic Equipment).

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This document should not be construed as a commitment on the part of The Professional Monitor Company Limited (PMC). The information it contains is subject to change without notice. PMC assumes no responsibility for errors that may appear within this document. Information subject to change.

CE Conformity PMC passive loudspeakers conform to CE Directive LVD 73/23/EEC and EMC 89/336/EEC.

WEEE European directive - PMC Limited is a member of a National Compliance scheme and have gained the associated certification of compliance and the following registration number from the Environment Agency WEEE/ GJ0101WU

WEEE EU Directive

This symbol on the product or in/on its packaging indicates that this product must not be disposed of with other household waste. It is the responsibility of the owner to dispose of waste equipment via a designated collection point for the recycling of waste electrical and electronic equipment. The recycling of your waste equipment is an attempt to conserve natural resources and ensures that it is recycled in a manner that protects human health and the environment. For more information about where you dispose of your waste equipment for recycling, please contact your local waste/recycling authority or the dealer from whom you purchased the product.





# fact signature

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