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fat lady

user manual





Dear customer,

Thank you for choosing Morel's fat lady loudspeaker!

The fat lady represents a journey of discovery for Morel lasting more than 3 year's. The goal was the development of a true high-end loudspeaker to fit into a contemporary modern home environment without any compromise on sonic performance.

Winner of the, 2009 CES Design and Engineering innovation award the fat lady really is a technical tour de force incorporating many innovative design solutions.

The cabinet borrows technology from Formula One racing cars fashioned from Carbon Fibre composite. The curved form with no straight lines resembles a musical instrument and unlike conventional speaker systems has no internal damping at all. The cabinet is empty as Morel deliberately designed it to vibrate with the drive units and use this energy as part of the reproduced sound.

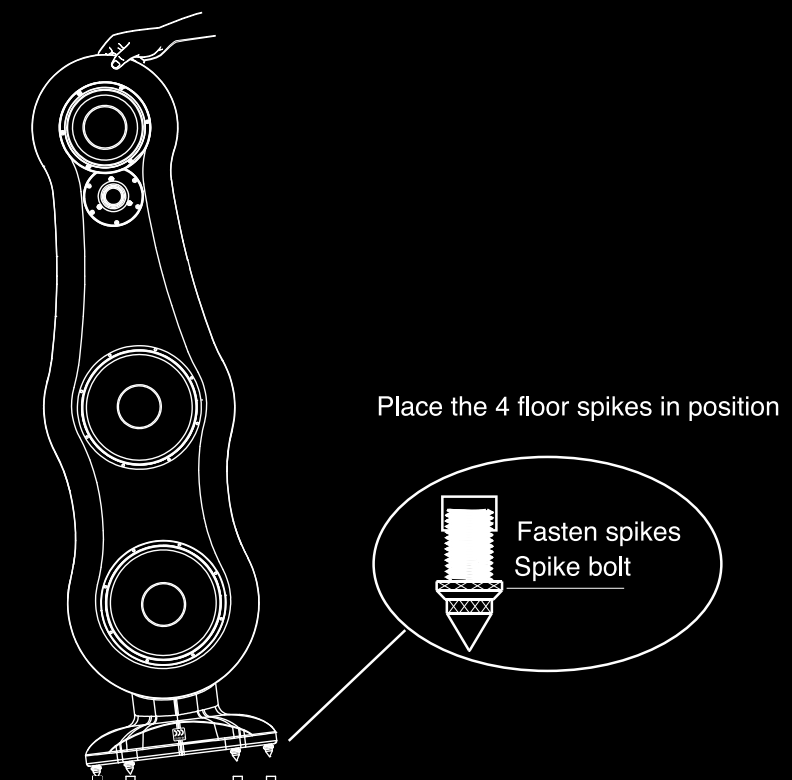
The finest drive units hand made in the Morel factory have been specially developed for the fat lady along with meticulous attention to detail for the crossover network and all other components.

The true test of a loudspeaker is to listen to it. Owning the fat lady promises to be an exciting experience. As they say: "It's not over till the fat lady sings."

We highly recommend you read carefully the information in this manual as it will help you obtain the best possible performance from your speakers. If you have any questions, please contact your Morel dealer, or Morel Support at www.morelhifi.com.

We welcome you to the Morel family and the rich listening experience.

Spikes Assembly



Place the magnetic spike protectors as shown when locating the fat lady on a wooden floor

Ancillary equipment

The fat lady speaker deserves electronic equipment and interconnecting cables and wires of the highest quality. Please choose them with care. We can only provide guidance as for what would be favorable but can not recommend specific items. Please contact your dealer for further assistance in this mater.

Connecting the fat lady to your equipment

- 1. It is essential when connecting the fat lady to the amplifier to have the correct phase. The positive marked in red should be connected to the positive (+) on the amplifier and negative marked in black should be connected to negative (-) on the amplifier.
- 2. The fat lady will accept a banana plug or a spade connector.
- 3. The connection terminals have blanking pins to comply with European and other countries safety regulations.If you wish to use a banana plug the blanking pins can be removed at your own risk.

Break in period

As in any high-end speaker system, the fat lady must be used for a short period of time before it reaches peak performance. We recommend a 72-hour break-in period. Please keep this in mind when you initially set up the speakers.

Room effect

The natural way of furnishing a room will mostly provide a comfortable acoustic environment; therefore, there is little need to make any adjustments to accommodate the fat lady. However, under certain circumstances, the dimensions, construction materials, and to some degree furnishings can significantly affect the sound quality. If you experience a very bright and lean sound or very thick heavy boomy sound please consult your Morel dealer for guidance.

Positioning the fat lady in the room

Morel strongly recommends that the fat lady is set up by your local dealer. However, if you have decided to set up the fat lady by your-self we recommend you partner with someone to help with adjustments and the listening. Please be advised positioning the fat lady is time consuming but also a lot of fun.

Set up guidelines

1. Create a triangle where the distance between the speakers is 2/3 of the distance from the listener with the speakers facing straight forward.

2. Setting the bass: Choose some music that has a double bass or a bass line that you can follow. Listen to the speakers and listen if one of these sounds appears: Either the bass will sound bloated and fat or the speaker will sounds lean lacking in bass.

- If the bass sounds bloated then the speaker needs to be moved forward (we recommend 5cm at a time),until the bass plays a natural tune.
- If the sound is lean then the speakers need to be moved backwards towards the wall (we recommend 5cm at a time).

Once the optimum position for bass reproduction has been found tape a line across the room to mark the front line of the speakers.

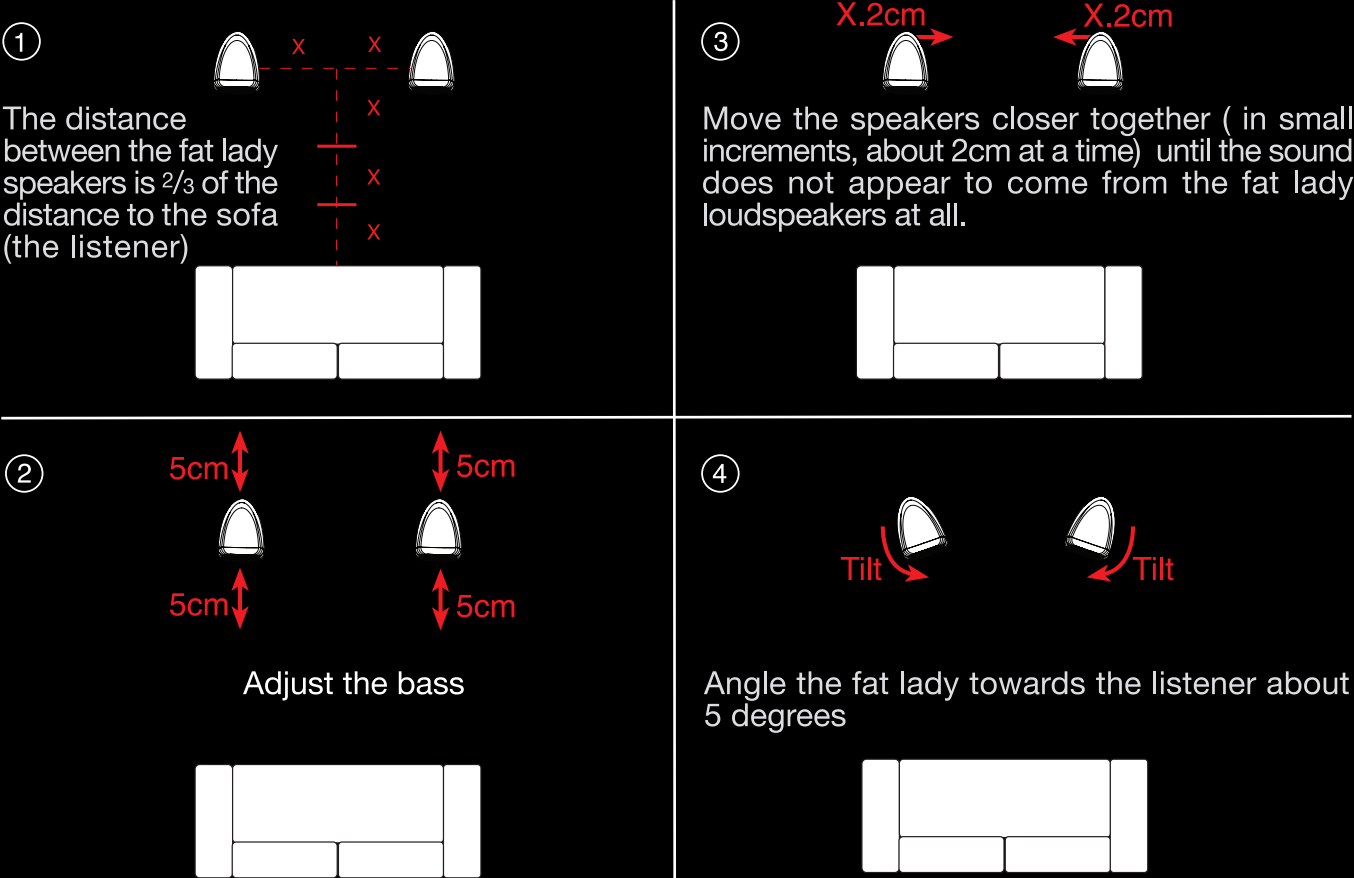
3. Setting the sound stage: To set the sound stage we need to change the music to something that has a lot of instruments in it. If the speakers have been moved either forward or backwards to find the correct bass they now should be repositioned on the line you made (with the tape) so that the distance between the speakers is 2/3 of the distance from the listener.

Listen to the music and in small increments (about 2cm at a time) move the speakers closer together until a point is reached where the sound does not appear to come from the fat lady loudspeakers at all.

- Please note if the distance of the speakers becomes half of the distance to you, the listener, then the speakers have been moved too close together.

4. Toe in & leveling: Angle the fat lady speaker towards the listener about 5 degrees. Level the speaker making sure that it is standing vertical and isn't rocking on the spikes. For optimum sound quality, make sure the fat lady is not leaning forwards or backwards nor tilting to the sides.

Recommended speaker placement & positioning



Specifications

Type	3-way 4 drive units system
Construction	Composite of carbon fibre and fibre glass resin enclosure
Acoustical Loading	Ported (Bass reflex)
Drive Units	Woofers: 2 x 9" (222 mm) Carbon fiber - Rohacell sandwich cone type with integrated one piece dome, Hybrid™ double magnet motor, 3" (75 mm) EVC (External Voice Coil) long-throw Hexatech™ aluminum voice coil technology. Midrange: 6" (152 mm) Carbon fibre - Rohacell sandwich cone type with integrated one-piece dome, double Neodymium magnet motor, Supreme™ underhung 3" (75mm) EVC™ (External Voice Coil) Hexatech™ aluminum voice coil with linear impedance copper sleeve technology. Tweeter: Supreme™ tweeter technology, 1.1" (28mm) Acuflex™ hand coated soft dome, pancake Neodymium magnet motor, underhung Hexatech™ aluminum voice coil.
Frequency Response	20-22,000 Hz (60-18,000 Hz ±1.5 dB)
Crossover	200Hz/ 2.2KHz
Nominal Impedance	4 ohm
Nominal Power Handling	300 W
Peak Power Handling	1000 W
Sensitivity 2.83V / 1M	88 dB
Dimension (WxHxD)	34 x 127 x 44 cm / 13 3/8" x 50" x 17 3/8"
Finishes	High gloss carbon fibre composite
Net Weight	44 kg. / 97 lbs.