

## Contents of the package:

Please remove all the contents from the packing tube, and find the following items:

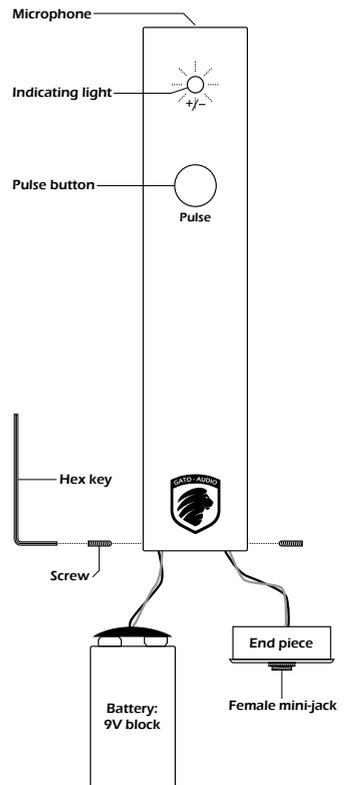
- One Phase-it®
- One 9V battery
- One small hex key
- One test cable
- This manual, which you should be reading at this very moment 😊

## Step by step preparing for use:

1. Unscrew the two hex screws at the bottom of the Phase-it®, (one at each side).
2. Remove the bottom end piece and the battery adapter, be careful not to snap or stretch the connection wires.
3. Connect and push the 9V battery up into the tube. Be careful to manage the wires so this can be done without struggle.
4. Push up the end piece and fasten with the two screws. Only tighten so the top of the screw is level with the outside periphery of the tube.
5. Finally insert the mini jack connector of the test cable into the female connector in the bottom of the Phase-it®. Phase-it® is now ready for use.

## Replacement of the battery:

The Phase-it® is designed to power off automatically when not in use, therefore it only consumes very little power from the battery. But if the battery needs changing, please follow the same method as when installing the battery. Please remember not to push the new battery hard into the tube. If brute force is needed to finalize the assembly, take out the battery and rearrange the wires before a second attempt.



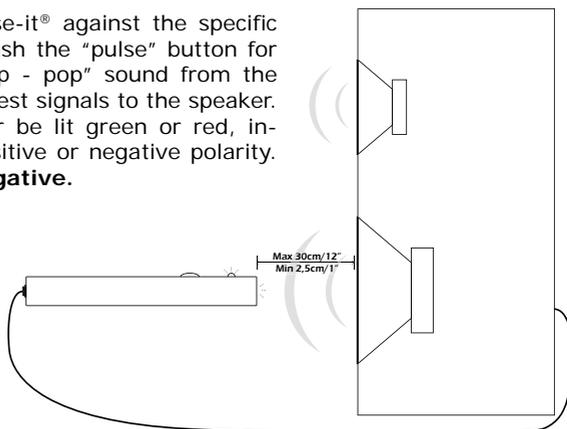
## How to use:

The Phase-it® is intended as a tool for finding the polarity of a connected driver or individual speaker unit in a speaker system. It is especially well suited for easy and fast troubleshooting for speaker developers, manufactures and DIY enthusiasts.

Connect the test cable to the speaker terminals, please make sure that the red clip is connected to the positive terminal and the black clip is connected to the negative terminal of the speaker. Otherwise the measured data will not be valid!

Then point the top end of the Phase-it® against the specific driver you would like to test and push the "pulse" button for a few seconds. You will hear a "pop - pop" sound from the speaker, as the Phase-it® sends out test signals to the speaker. The LED of the Phase-it® will either be lit green or red, indicating whether the driver is in positive or negative polarity. **Green for positive and red for negative.**

**Please note:** Keep a minimum distance of 2,5cm/1" and maximum distance of 30cm/12" from microphone to driver cone. Depending on speaker efficiency, increased distance will increase the inaccuracy of the measurement.



## All the boring stuff

### Important:

Disconnect the speaker from any other equipment when using the Phase-it®!

### Maintenance:

The Phase-it® is a delicate piece of electronics that should be kept away from water and other liquids. If cleaning is needed, use only a dry and soft cloth to wipe away dust and dirt.

### Warning:

Never disassemble the electronics or put anything other than the specified 9V block battery into the tube of the Phase-it®.

The Phase-it® is not a toy! It contains small parts and the battery contains chemicals. Keep away from children!

### Warranty:

Gato Audio offers a limited warranty of two years on the Phase-it®. If you should be so unfortunate to encounter problems with it, please do not hesitate to contact your dealer or us directly.