

# Groove PM20

## Owner's Manual





## Important Safety Information

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled, objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.



The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.

**WARNING:** To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

**WARNING:** Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

**WARNING:** No naked flame sources – such as candles – should be placed on the product.

	<b>WARNING</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
<b>WARNING:</b> Do Not Open! Risk of Electrical Shock. Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel.		

**WARNING:** This product is intended to be operated ONLY from the AC Voltages listed on the back panel or included power supply of the product. Operation from voltages other than those indicated may cause irreversible damage to the product and void the product's warranty. The use of AC Plug Adapters is cautioned because it can allow the product to be plugged into voltages in which the product was not designed to operate. If the product is equipped with a detachable power cord, use only the type provided with your product or by your local distributor and/or retailer. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer.

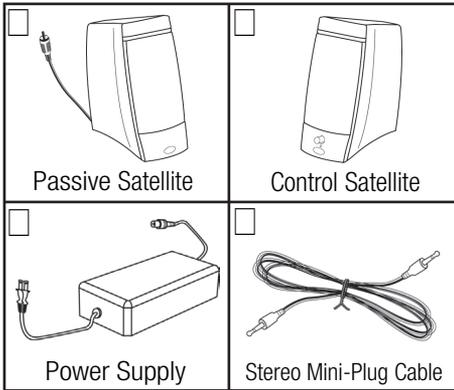
**CAUTION:** Place the equipment near a main power supply outlet and make sure that you can easily access the power breaker switch.

## Thank You

Congratulations on your purchase of the Klipsch Groove PM20 music system. The Groove PM20 is designed to allow you to share the contents of your digital music with the world around you. The Groove PM20 is a stereo sound system incorporating two long-throw 2.5" (6.4cm) woofers in a ported enclosure. This system provides the accuracy, detail and output that will bring your music to life as only Klipsch can.

## Unpack the Box

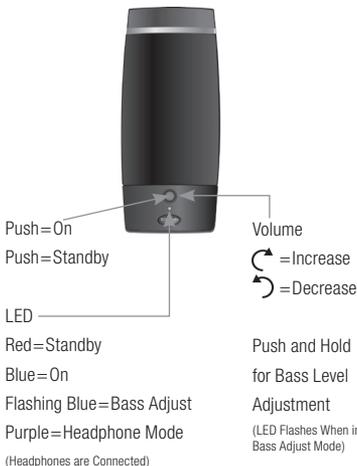
Unpack the entire contents of the shipping box and make sure you have the following items.



## Speaker Placement

1. The two speakers should be positioned on each side of your computer monitor, with the control satellite on the right. (The control speaker has the volume knob on the front.)
2. Avoid running speaker or power cables across an area of foot traffic.

## Active Speaker Controls



## Speaker Connection Diagram

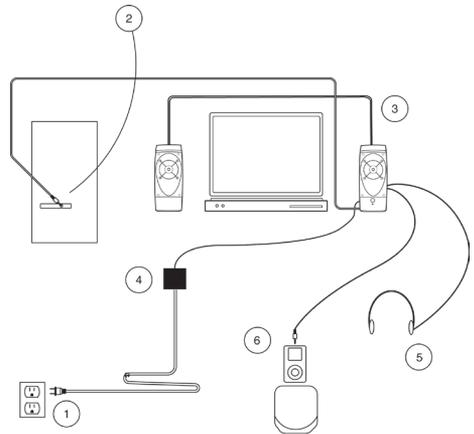
1. Do not plug in AC power until system setup is complete.
2. Connect mini plug cable from the control speaker to the primary audio source (computer, iPod®, etc.).
3. Connect RCA speaker cable from passive (left) to the control (active) speaker.

*Note: The active speaker plays the right channel, and the passive speaker plays the left channel.*

4. Connect DC power supply cable to the DC IN of the control speaker.
5. Plug headphone mini stereo plug into headphone jack, if desired.

*Note: The speakers will not play while headphones are connected.*

6. Plug stereo mini plug into Aux jack. Plug stereo mini plug into MP3 player (for example).



## System Volume and Bass Level Controls

The knob located on the front of the right satellite can be used to adjust the system's volume as well as the bass level of the PM20 system. When the system is "On" and the LED indicator is blue, the knob can be used to adjust the volume of the PM20 system. To adjust the bass level, press and hold the knob for three (3) seconds. The LED indicator will flash blue. While the indicator is flashing blue, the knob can be used to adjust the level of the bass relative to the treble.

## Software and Hardware Gain Controls

Software Volume Control in Microsoft Windows

1. Click the Start button on your taskbar
2. Choose Accessories
3. Windows 95: Choose Multimedia  
Windows 98/2000: Choose Entertainment  
Windows XP: Choose Entertainment
4. Click on the Volume Control
5. Adjust the Wave Volume Elevator Button to 70%

## Volume Control Programs

Some soundcard and/or PC manufacturers may have software that must be adjusted separately from the Windows volume control. Consult applicable manual for specific hardware documentation.

## Control Features

Headphones: The 1/8" stereo headphone output jack, located on the rear of the master speaker, turns off the two speakers. The main volume control will adjust the headphone output.

*Note: The PM20 LED indicator will light up purple when the headphone jack is in use.*

Aux: The Auxiliary input jack is used with portable audio players. This signal will be mixed with the main source. To obtain the proper balance with the main signal, the levels in the computer software and in the portable player may need to be adjusted. An example would be listening to an MP3 player while surfing the net and hearing associated sounds from various websites. The mixed sound may not be desirable, and you will ultimately determine how you use this feature.

*Note: During playback of MP3 files, overall sound quality may be perceptibly degraded compared to other audio sources such as CD. This is caused by the encoding method and quality of the MP3 file. Higher bit rates will yield a better listening experience.*

## LED Indicator Color Guide

The LED indicator located on the front of the PM20 is used to indicate the following states of the system.

### Solid Red

The system is in "Standby" mode. Pushing the knob will turn the system "On".

### Solid Blue

The system is "On". Pushing the knob will put the system in "Standby" mode. When the LED is solid blue the knob will adjust the systems volume. Pushing and holding the knob for three (3) seconds in this mode will put the system in bass level adjust mode and cause the LED to flash blue.

### Flashing Blue

The system is in bass level adjust mode. The knob will adjust the level of bass relative to the treble. When the knob has not been adjusted in five (5) seconds, the LED will stop flashing and the knob will return to its default state as a system volume knob.

### Solid Purple

The system is in headphone mode. Sound will only come from the headphones connected to the headphone output on the rear of the right satellite.

## Specifications

Speaker Impedance:	6 ohms nominal
Master Speaker Features:	Main volume level control LED indicator (power and mode) Aux player line input with soundcard mixing function Headphone jack Direct path interface Passive speaker output RCA jack
Enclosure and Drivers:	Ported enclosure with 2.5" long-throw full-range driver
Amplifier:	High-efficiency Class D power section and audio quality transformer designed for uncompressed full power sound

## Troubleshooting

If no sound, ensure that:

- Power, input, speaker cables and connectors are securely attached.
- Software is properly installed and functioning.
- Computer sound (control panel) volume is turned up and not muted.
- Rotate volume knob clockwise, LED should be blue.

If one or more speakers have little or no sound, ensure that:

- All cables are connected properly.
- Connectors are fully "seated" in soundcard and speakers.
- Volume level controls are properly adjusted.
- Computer software audio settings are adjusted for proper use.
- Computer system's sound (control panel) volume is turned up.

If the speakers exhibit distortion or buzzing:

- Turn up computer's overall volume (via control panel) and reduce speaker volume.
- Turn down bass volume, as program signal may be too strong.
- Plug the power cord into a surge protector.

If there is noise or hissing and the volume is low even with main volume turned up:

- Turn up computer's sound volume (via control panel).
- Turn down main volume on control pod to compensate.
- Ensure that software/hardware is properly installed and operating.

If there is computer monitor interference:

- Increase the distance between the speakers and the computer monitor.

For more detailed information and FAQs, please visit [www.klipsch.com](http://www.klipsch.com).

### DC Power Adapter

The PM20 is designed to be used only with the supplied DC power adapter.

## Warranty – U.S. and Canada

The Warranty below is valid only for sales to consumers in the United States or Canada. KLIPSCH, L.L.C. ("KLIPSCH") warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below) for a period of one (1) year from the date of purchase. During the Warranty period, KLIPSCH will repair or replace (at KLIPSCH's option) this product or any defective parts.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the Warranty period, must be presented or included to obtain Warranty service. This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a KLIPSCH authorized dealer. You may call 1-800-KLIPSCH to confirm that you have an unaltered serial number and/or you purchased from a KLIPSCH authorized dealer.

This Warranty is only valid for the original purchaser and will automatically terminate prior to expiration if this product is sold or otherwise transferred to another party.

This Warranty does not cover cosmetic damage or damage due to misuse, abuse, negligence, acts of God, accident, commercial use or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than KLIPSCH or a KLIPSCH dealer which is authorized to do KLIPSCH warranty work. Any unauthorized repairs will void this Warranty. This Warranty does not cover product sold AS IS or WITH ALL FAULTS.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. KLIPSCH SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the above exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

## Warranty Outside the United States and Canada

The Warranty on this product if it is sold to a consumer outside of the United States or Canada shall comply with applicable law. To obtain any applicable warranty service, please contact the dealer from which you purchased this product, or the distributor that supplied this product.

## FCC Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and radiates radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

In accordance with FCC requirements, changes or modifications not expressly approved by Klipsch could void the user's authority to operate this product.

This device generates and uses radio frequency (RF) energy, and if not installed and used properly, this equipment may cause interference to radio and television reception.

If this equipment does cause interference to radio or television reception (which you can determine by unplugging the unit), try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna (that is, the antenna for the radio or television that is "receiving" the interference).
- Move the unit away from the equipment that is receiving interference.
- Plug the unit into a different wall outlet so that the unit and the equipment receiving interference are on different branch circuits.

If these measures do not eliminate the interference, please consult your dealer or an experienced radio/television technician for additional suggestions.

## FCC and Canada EMC Statements

Approved under the verification provision of FCC Part 15 as a Class B Digital Device.

Also, the Federal Communications Commission has prepared a helpful booklet, "How To Identify and Resolve Radio TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Please specify stock number 004-000-00345-4 when ordering copies.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.





# Power

# Detail

# Emotion

For over 60 years, we've made speakers for people who are as passionate about great sound as we are. That's why every Klipsch speaker is horn-loaded to create a remarkably accurate listening experience for your music and movies. From our smallest satellites to our acclaimed professional theater installations, our speakers deliver sound that's so lifelike, you have to feel it to believe it.

THE ULTIMATE SOUND EXPERIENCE™