



# PA920PS PowerPro Portable PA Owner's Manual







# PowerPro™ 920PS Owner's Manual

Thank you for purchasing this PowerPro PA, the most versatile and appropriate portable PA for use in school, business, houses of worship and government facilities.

We encourage you to visit our website to register your PA for its warranty coverage at [califone.com/registration](http://califone.com/registration), and while there please signup to receive our enewsletter, and learn more about the complete line of Califone audio visual products including: Portable and installed wireless PA systems, multi-media players & recorders, headphones and headsets, computer peripheral equipment, visual presentation products and language learning materials.

## Unpacking

Check carefully for damage which may have taken place during transit. Report any damage claim directly to the freight carrier immediately. Save product(s) and packaging for inspection by the carrier's claim agent. Notify your dealer of the pending claim.

## Warranty Registration

Please register for your 6-year limited warranty online at [www.califone.com/registration](http://www.califone.com/registration) to activate.

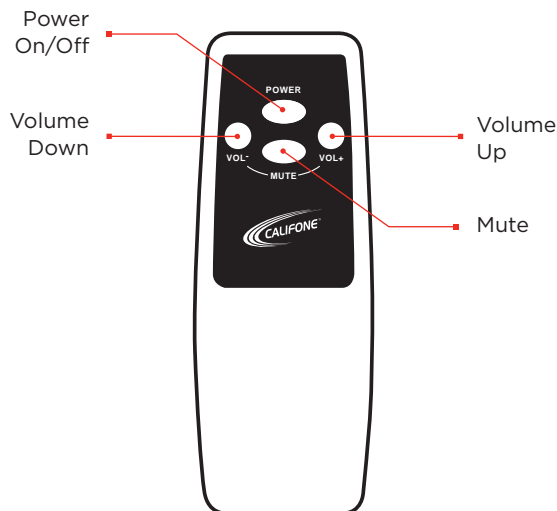
## Service Repairs

Should your unit require repair contact the dealer or Califone Service Department at: (800) 722-0500 to obtain a Return Authorization (RA) number. After receiving the RA from Califone then ship the unit to Califone prepaid, writing the RA visibly on the outside of the box.

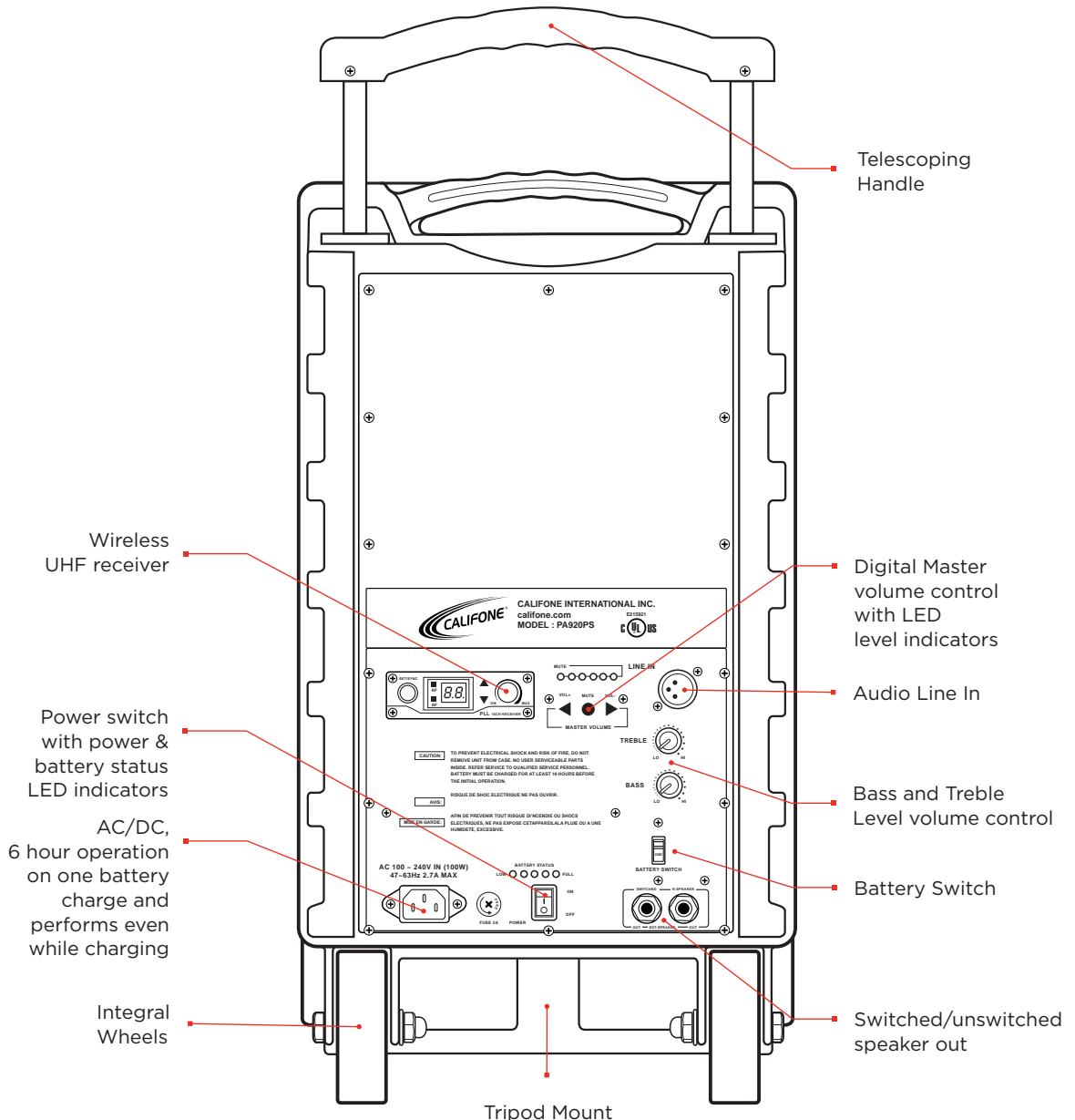
## Contents

- a) PowerPro PA920PS
- b) Power Cord
- c) Operation Manual
- d) Master Volume Remote Control

## Remote Control



## PowerPro™ PA920PS Features



Califone® wireless PA systems deliver professional quality sound in a variety of presentation settings. Since they're simple to set up and operate, you won't need an audio expert. Whether it's a large meeting of parents, an all-school spirit rally or a guest lecturer transmitting wireless audio from a laptop, you'll have clear audio so everyone can listen and participate!

# Operation

## Battery

Charge the battery for at least 10 hours before the first use of the PA920, or the PA920PS. Simply plug the power cord into an AC outlet and set the battery switch to the ON position. The charging indicator will flash until fully charged, then it will stay green. The unit can be used while it is plugged in for charging.



**BATTERY SWITCH**

There are LED indicators above the main power switch to show AC Power and Battery Status. When the unit is turned on, the one on the left will light “red” when the battery has a low charge. the ones on the right will glow “green” to show partial charge, full charge or if operating on A/C power.

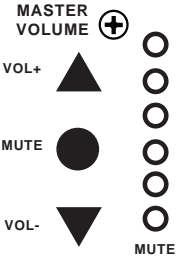
**BATTERY STATUS**

LOW  FULL

It is recommended that the battery be recharged after several hours of usage, rather than stored with a low battery. This will prolong battery life. Storing more than 30 days without recharging will deteriorate the battery.

## Digital Master Volume Control

When the main power switch is turned on, the Digital Master Volume Control is at the lowest level to prevent accidental damage to the amplifier or internal speakers. The volume can be controlled in two ways; using the “Up” “Down” buttons on the mixer panel or using the infrared Master Volume remote control. The Master volume control has 5 green LED indicators to show the Master volume level and a one red LED for speaker mute. When Mute is turned ON the red LED will lit and the green LEDs will turn off. While on Mute, all sound will cut off to the PA920PS speaker and connected speaker. The Master volume remote control must be used in front of the speaker as the sensor is behind the speaker grille.

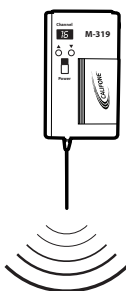


## Recommended Set-up Procedure

Ideally the master volume should be at maximum volume before the wireless receiver volume is adjusted to the desired loudness. Since there are always at least two (2) volume controls to contend with, it is suggested that prior to turning the power on for the receiver, its volume control be set at “10 o'clock”.



### M319 Wireless Transmitter



### PA920

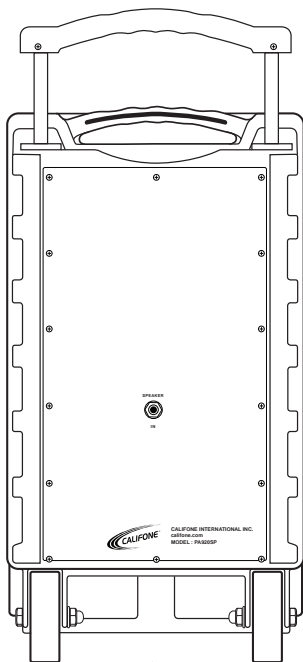
PowerPro™

- 2 - 16 Channel Receivers
- 1 - Transmitter
- Bluetooth Media Input
- 2 - XLR & 1/4" Mic Jacks
- CD Player
- USB Media Player

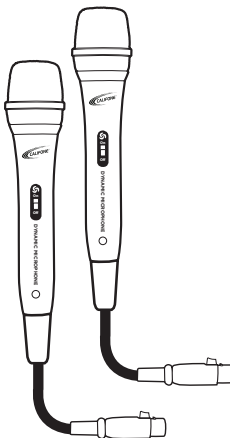


Connect to  
Bluetooth enabled  
smartphone  
& media players

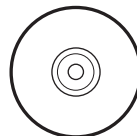
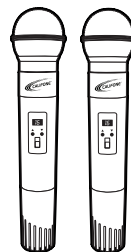
Non-powered  
Companion Speaker



### PADM515/510 Dynamic Microphones



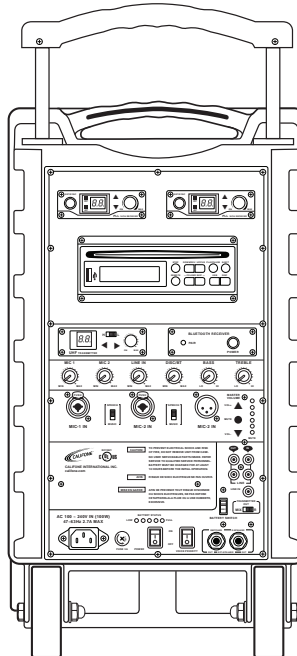
### Q319 Wireless Mics



CD  
Player

### USB

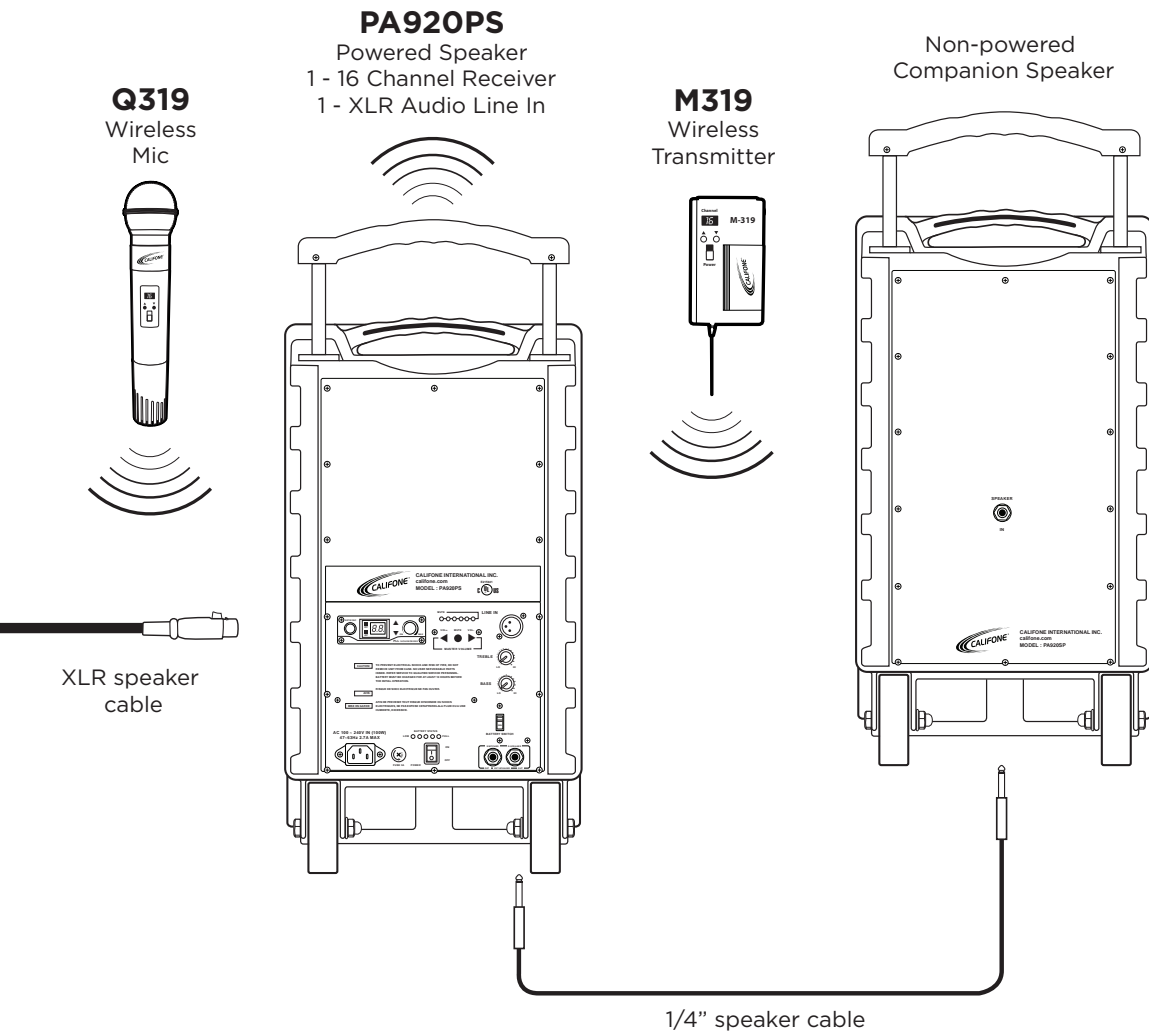
Media Player



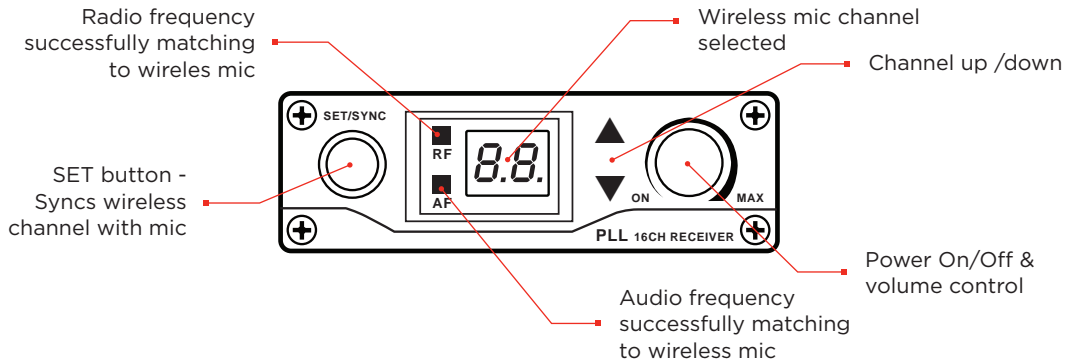
1/4" speaker cable

# PowerPro™ Product Family Operation Diagram

The PowerPro™ Series is compatible with other wireless Califone presentation systems providing great flexibility to adjust to any demand. The PA920 connects wirelessly in stereo to the PA920PS or via cable, both systems work with wireless microphones M319 and Q319. The Non-Powered Speaker can be connected to either unit via cable.



# Wireless Operation



## Wireless UHF Receiver

Selecting a Wireless Channel

- Turn the receiver power ON
- Hold down the Set button until the display starts flashing
- Use the UP and Down buttons to select the desired channel
- Depress the Set button to save it.

There are two (2) LEDs on the receiver; RF reception (green) and AF Audio reception (blue). There are also LEDs on the front of the speaker above the grille making it easy to see if the receiver is working properly. A red LED indicates RF (radio frequency) from the transmitter/mic while an amber LED indicates audio. The green LED shows power status for the PA system.

## Feedback

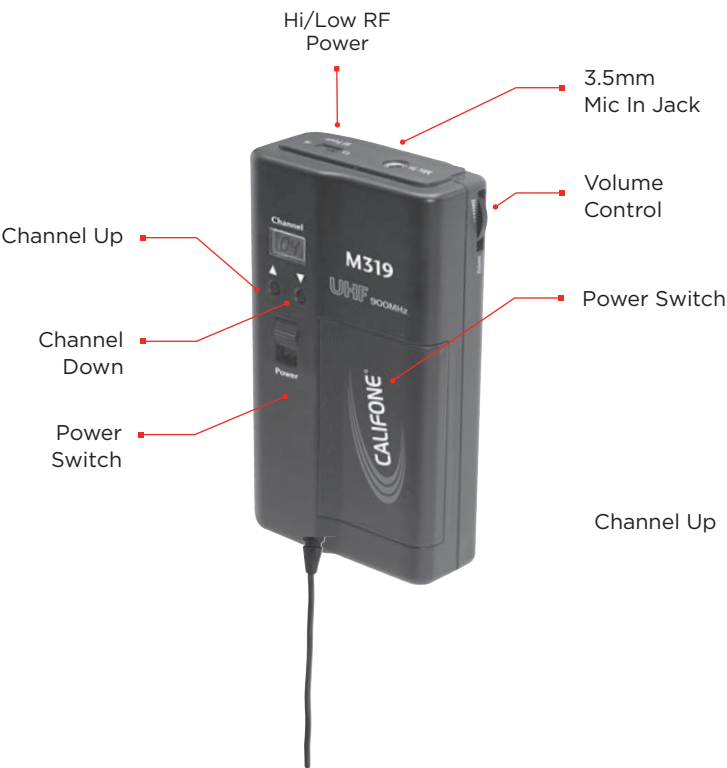
Feedback is a shrill screeching sound produced by the speaker system when a microphone is being used too close to the front of the speaker. The microphone picks up the sound of the speaker system and it becomes reamplified. It is a self-sustaining loop which can damage the system if allowed to continue, not to mention the annoyance caused to persons nearby. Always stand 4 to 6 feet from the speaker to minimize the opportunity for feedback from the speaker system.



# 900 MHz Microphone & Beltpack Transmitter

The M319 and Q319 are designed to work with the PA920 series PAs.

## M319 Wireless Belt Pack Transmitter



## Q319 Wireless Microphone



### The M319 is used with these 2 microphones



# Powered Companion Speaker PA919PS

The PA920PS works with the M319 and Q319 microphones. The Powered Companion PA has the same amplifier, power supply and speaker compliment as the full featured PA920. It does not have the mixer panel because it can be controlled by the PowerPro PA920.

With the integral 16-channel selectable wireless UHF receiver, it can function as a stand alone PA speaker when using a Q319 Handheld microphone or the M319 Beltpack transmitter with a LM319, or HBM319 microphone. Although there are 5 LEDs on the front of the PA920PS only 3 lights function on this unit because there is only one receiver. The red LED indicates RF, the amber LED is for audio, and the green LED indicates power On.

## Full Wireless Operation

Any audio from the PA920 can be transmitted to the PA920PS without wiring. There is no limit on the number of PA920PS speakers that can be used with the PA920 within a range of 300 feet.

## Audio Line Buss

When linking one PA920PS to the PowerPro PA920 via Line In, a XLR cable is connected to Audio Line Out XLR connector on the PA920. The other end is connected to Line In XLR on the Powered Companion Speaker. The Master Volume Control on the Audio Line panel of the master will adjust the PowerPro PA920 as well as all the Powered or Passive Companion Speakers, however the loudness needs to be adjusted via the Master Volume Control on the PA920PS as well.

## Tone Controls

The separate base and treble controls provide a wide range of adjustment for increasing or decreasing either the bass or treble from “flat” frequency response. The center or “12 o’clock” position is flat.

## Speaker out

Two 1/4” phone jacks for Switched and unswitched speaker output signals to connect to external speakers. Switched output disengages main speaker, unswitched output divides output between main speaker and passive speaker

# PA920PS Specifications

## Speaker System

**Speaker:** Bass reflex design tuned to 50 Hz

**Woofers:** 10" Dia., 2" Dia. voice coil, 40 oz magnet, moisture resistant cone, 120 Watt capacity.

**Horn Tweeter:** 4.25" square Compression horn driver, 12 oz magnet, 1" Dia. voice coil, 30 Watts RMS, 8 ohm.

**Amplifier:** 90 Watts RMS

**Sound Pressure Level:** 94 dB, 1 Watt@ 1 Meter

### Wireless Receiver:

One 16-channel UHF wireless 904-925 MHz, internal antenna, on/off power and volume control, Audio and Radio Frequency receiving LED, 300' reception range from main unit.

**Receiver Sensitivity:** -95 dBm

### Audio Line In

One Line level XLR jack provided for attaching PA920 speaker via cable.

## Mixer Panel

**Audio Controls:** Separate Treble and Bass controls

Digital Master Volume Control with LED indicators

### Mute button

Wireless Master volume adjustment

**Speaker Out:** Switched 1/4" jack disengages main speaker, unswitched

1/4" jack divides power between main speaker and passive companion speakers

## Power Sources

**Power Supply:** 320W single output switching power supply with cooling fan

**AC Input:** Voltage range 85-264VAC

**DC Output:** 36V/8.8 A

**Batteries:** Two 12 volt (sealed and maintenance-free) lead acid batteries included

**Charging Time:** Full charge in 8-10 hours

**Operating Time:** 6 hours max power output (normal music on full charge)

Battery ON/FF switch

Led indicators for AC and Battery status

**Dimensions:** 22"H x 14"W x 14"D

**Weight:** Actual 47 lbs, shipping 52 lbs.

**Compliance:** FCC, CE, C-UL



## CAUTION

### RISK OF ELECTRIC SHOCK - DO NOT OPEN



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED PERSONNEL.**



The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.



This product is not designed to function normally in strong electromagnetic fields. Consequently, the audio quality may degrade while the product is exposed to strong electromagnetic fields. Normal audio quality operation will be recovered when the strong electromagnetic field is no longer present.

### WARNING:

TO REDUCE THE RISK OF  
FIRE OR ELECTRIC SHOCK, SO  
NOT EXPOSE THIS APPLIANCE  
TO RAIN OR MOISTURE.



Ce produit n'est pas conçu pour un fonctionnement dans de forts champs électromagnétiques. Par conséquent, la qualité sonore peut diminuer si ce produit est exposé à un fort champ électromagnétique. La qualité sonore redeviendra normale après affaiblissement du champ électromagnétique.

## IMPORTANT SAFETY INSTRUCTIONS

Attention: all safety and operating instructions should be read before operating appliance. All operating and use instructions should be followed when operating the appliance. Heed and adhere to all warnings on the appliance and in the operating instructions. Retain all safety and operating instructions for future reference.

Water & moisture - do not use the appliance near water; ie. Bathtub, washbowl, kitchen sink, laundry tub, wet basement or swimming pool.

Ventilation - do not situate the appliance so that its location or position interferes with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug or similar surface that may block the ventilation openings. The appliance should not be placed in a built-in installation, such as a bookcase or cabinet, that may impede the flow of air through the ventilation openings.

Heat - situate the appliance away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.

Power sources - connect the appliance only to a power supply type described in the operating instructions or marked on the appliance.

Grounding or polarization - precautions should be taken so that the grounding or polarization means of the appliance are not defeated.

Power cord protection - power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

Cleaning - the appliance should be cleaned only as recommended by the manufacturer.

Non use periods - unplug the appliance power cord from the outlet when left unused for a long period of time.

Object & liquid entry - care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Damage requiring service - the appliance should be serviced by qualified service personnel when: (a) the power supply cord or the plug has been damaged (b) objects have fallen or liquid has been spilled into the appliance (c) the appliance has been exposed to rain (d) the appliance does not appear to be operating normally or exhibits a marked change in performance (e) the appliance has been dropped or the enclosure damaged.

Servicing - the user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing refer to a qualified service personnel.



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