

PowerPro™



Portable Public Address Systems Owner's Manual

PA919 Public Address Speaker
PA919PS Powered Companion PA
PA916-SP Passive Companion Speaker



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Power Pro™ Owner's Manual

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

We encourage you to visit our website to register your PA for its warranty coverage at califone.com, and while there please sign up 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 warranty online at www.califone.com 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 number. After receiving the RA, ship the unit to Califone prepaid. Collect shipments will be refused.

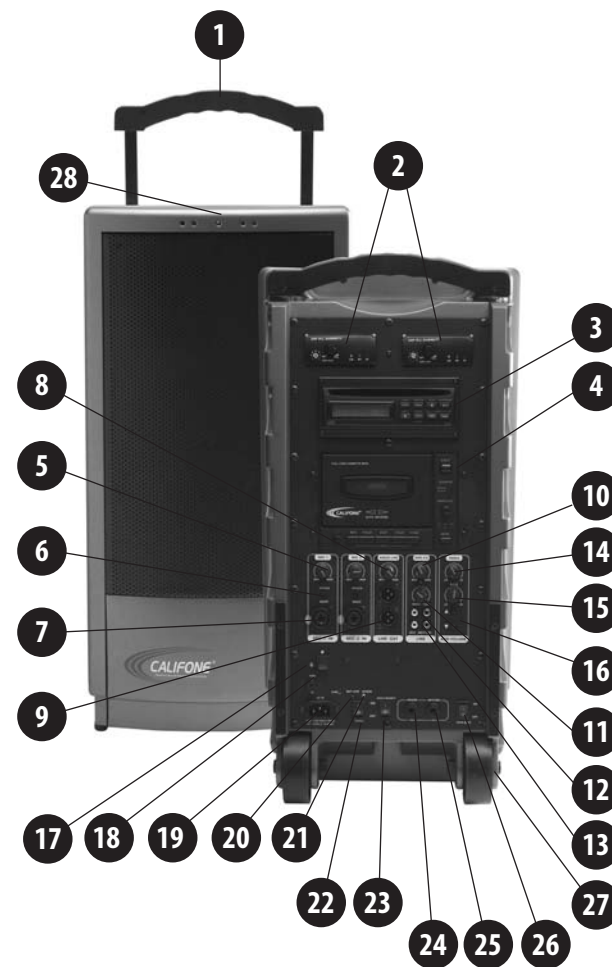
Contents

- a) PowerPro Public Address System
- b) Power Cord
- c) Operation Manual
- d) RC-300 Remote Control With 2 AAA Alkaline Batteries

Also included may be one or more of the following optional items:

- Q319 Handheld 16-Channel Wireless UHF Microphone (battery included)
- M319 Beltpack Transmitter (battery included)
- LM-316 Lapel Microphone for the M319
- CM-316 Flexible Collar Microphone for the M319
- HBM-316 Headband Microphone for the M319
- NM-316 Neck Microphone for the M319
- OE-316 Over Ear Microphone for the M319

Power Pro SPECIFICATIONS



- | | |
|----|---|
| 1 | Telescoping Handle |
| 2 | Two 16-channel UHF wireless mic receivers |
| 3 | Compact Disc Player |
| 4 | Variable Speed Cassette Recorder/Player |
| 5 | Microphone Volume (2) |
| 6 | Speech/Music Switch (2) |
| 7 | XLR & 1/4" Microphone Inputs(2) |
| 8 | Audio Line Out Volume |
| 9 | Audio Line Out XLR (2) |
| 10 | CD-Tape On/Off & Volume |
| 11 | Line-In Volume Control |
| 12 | Line-In RCA Jacks |
| 13 | Line-Out RCA Jacks |
| 14 | Treble Control |
| 15 | Bass Control |
| 16 | Digital Master Volume |
| 17 | 16-channel UHF Transmitter |
| 18 | 5 Amp Fuse |
| 19 | A/C Power Socket |
| 20 | Battery Low/Charge Indicators |
| 21 | Green Power On Indicator |
| 22 | Power On/Off Switch |
| 23 | Voice Priority (Ducking) Switch |
| 24 | 1/4" Phone Jack Speaker Out |
| 25 | 1/4" Phone Jack Speaker Out Switched |
| 26 | Speaker Mute Switch |
| 27 | Beefy 3.5" Integral Wheels |
| 28 | LED Lights for Power, RF, Audio |

Operation

Battery

Charge the battery for at least 10 hours before using the PA919 or PA919PS. Simply plug the power cord into an AC outlet and charging begins automatically. 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.

There are two indicators above the main power switch. When the unit is turned on, the one on the left will light "red" when the battery has a low charge. The one on the right will light "green" if the battery is fully charged or if operating on A/C power.

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. Battery life naturally deteriorates over the lifespan of the battery. Usage time will also begin to diminish depending on the conditions.

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 RC-300 infrared remote control. The remote sensor must be used in front of the speaker as the sensor is behind the speaker grille.

Recommended Set-up Procedure

It is suggested that prior to turning the main power on, the UHF receiver volume controls be set at "10 o'clock". Also set the microphone volume controls at "10 o'clock". Turn on the main power switch and use either a wireless microphone or cabled microphone to adjust the master volume.

Tape & CD

The main power switch does not control the CD and tape recorder. A separate power switch is combined with the Tape/CD volume control to limit battery drain when the Tape or CD are not being used. To operate the tape and CD players, first turn on the main power switch then rotate the Tape/CD volume knob clockwise to power them, and increase the volume to the appropriate level. The red power LED will light below the knobs.

Wireless Receivers

There are two (2) independent combination XLR/1/4" jacks for using microphones with cables. Each jack has a volume control which effects the loudness of both wired and wireless microphones. Also each has a "Voice/Music" switch. On "music" program the sound is full fidelity, while on "voice" the sound is tailored to give maximum projection while limiting battery drain.

Operation continued

Line In

Insert both RCA plugs into the RCA jacks when using a stereo input. The left and right channels are combined so no program material is lost. If the source is monaural, either RCA jack can be used. The Line In volume control is used to increase or decrease the level of the input signal.

Line Out

The two RCA jacks are used to connect to the input of another piece of equipment such as a tape recorder, mixer or another amplified speaker. The outputs are monaural and volume level will depend on the volume of the source. For example, the tape or CD player level is controlled by the tape/CD volume control. The line outputs are independent of the Master Volume Control. The XLR line output level is affected by both the line output volume knob and master volume control.

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 Mute Switch

Engaging this switch will cut off the sound of all speakers, internal and external, except as explained in the section under "PA919PS operation".

Voice Priority

This feature is used for voice override of the music program when using any wired or wireless microphone. The "ducking" circuit attenuates the music when a person speaks into the microphone. After a 3 second delay in the speech, the music returns to the previous level.

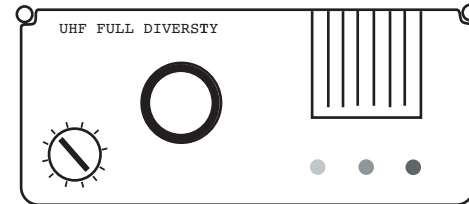
Wireless Operation

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.

Wireless UHF Receivers

Wireless receiver "A" is preset at the factory for channel 4 and receiver "B" is set on channel 6. There are three (3) LEDs on the receiver; power (green), RF reception (red) and Audio reception (amber).

There are also LEDs on the front of the speaker above the grille making it easy to see if the microphone and receiver are working properly. A red LED indicates RF (radio frequency) from the microphone, while an amber LED indicates audio.



Wireless Transmitter

The PowerPro PA919 incorporates a 16 channel UHF transmitter with its own power switch for wireless transmission to the Powered Companion Speakers PA919PS. The transmitter is preset at the factory to channel 13. It is recommended that the user not randomly change this setting. If using the transmitter function change wireless receiver "A" from channel 1 to any other channel except channel 13 to prevent the transmitter from blocking the receiver.

Microphone Lockout

Two wireless microphones can be used at the same time, but separate channels (frequencies) must be used. For instance, if using receiver "A" on channel 4, two microphone belt-pack transmitters cannot be used at the same time. The first transmitter turned on will dominate and lock out the other. The second microphone should be used with receiver "B" on a different frequency which will allow two persons to talk at the same time.

Turn the transmitter power switch to OFF when not being used to minimize battery drain.

Microphones & Belt-Pack Transmitter

Q319 Wireless Microphone



16-Channel UHF Transmitter Selector Buttons

M319 Wireless Belt Pack Transmitter

16-Channel UHF Transmitter Selector Buttons



Power On Switch

Volume Control

Battery Compartment

The M319 is used with these 5 microphones



OE-316 Over Ear Mic



NM-316 Neck Mic



LM-316 Lapel Mic



CM-316 Collar Mic



HBM-316 Headset Mic

Cassette Recorder/Player

Note: Remove the protective pad from behind the cassette door before inserting a cassette tape.

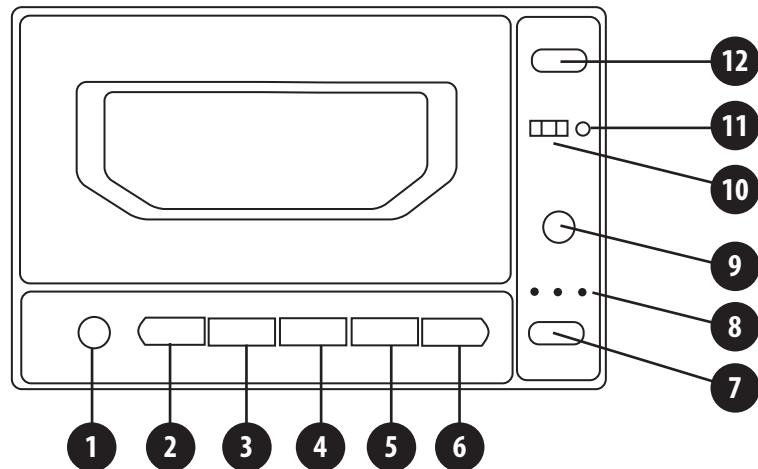
- 1 **RECORD** Press this key together with either F.PLAY or R.PLAY to Record.
- 2 **REWIND** Press this key to rewind the tape.
- 3 **REVERSE PLAY** Press this key to Play the tape backwards.
- 4 **STOP** Press this key to stop the tape.
- 5 **FORWARD PLAY** Press this key to play the tape forward.
- 6 **FAST FORWARD** Press this key for Fast Forward.
- 7 **MODE** Press this key to select one of the following 3 modes.

- 1) The tape will play to the end in either direction and stop automatically.
- 2) The tape will play to the end in the forward mode, then reverse and play to the end of the other side of the tape in Record or Play
- 3) This mode provides continuous play operation in the Play function.

- 8 **MODE LED INDICATORS**
- 9 **SPEED ADJUSTMENT**
- 10 **COUNTER**
- 11 **COUNTER RESET BUTTON**
- 12 **EJECT**

Normal speed; center position. Turn clockwise to increase the speed in 3% increments up to 15%. Turn counter clockwise to reduce the speed in 3% increments down to 15%.

The counter is a 3-digit LCD display. Reset to "000" by pushing the button. This button opens the cassette door.



Automatic Cassette Program Search System

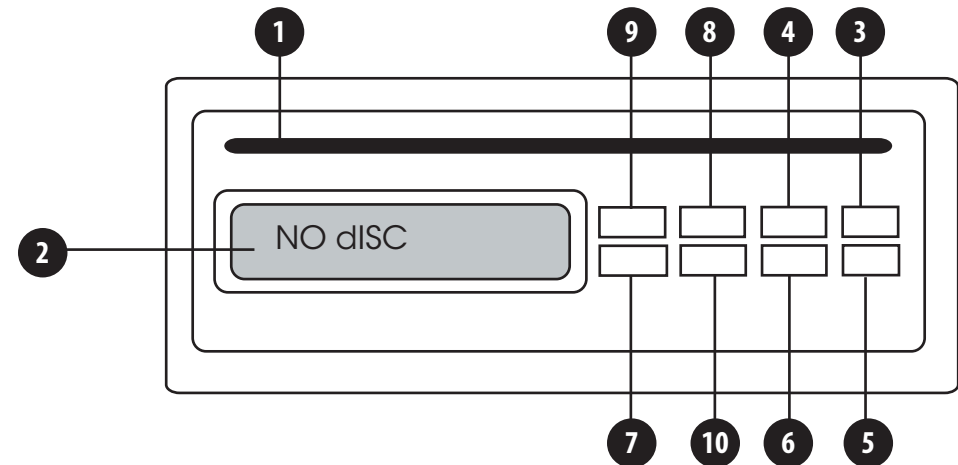
The APSS (Automatic Program Search System) allows the user to skip the program being played and move the tape in the Forward or in the Reverse direction to the next program or to the previous program. It operates on the principal that there is a short period of silence between programs.

When the Tape Deck is in the Play mode and the "FF" is momentarily pressed and released within 0.5 sec, the tape advances rapidly until the next program ahead is reached. At this point, the tape stops momentarily and playback of the next program starts.

When the Tape Deck is in the Play mode and the "FR" is momentarily pressed and released within 0.5 sec, the tape rewinds rapidly until the beginning of the previous program is reached. At this point the tape stops momentarily and playback of the previous program starts.

CD Player

- 1 **CD SLOT** After the power is turned on the LCD display will read "NO disc" Gently push the CD into the slot and the CD will be recognized and begin playing track #1.
- 2 **LCD DISPLAY**
- 3 **PAUSE/PLAY** When "Play" is pressed, the first track will begin to Play. When Play is pressed again, the mode goes to Pause. When pressed a third time the mode returns to Play.



- 4 **STOP** When STOP is pressed from Play or Pause the program is advanced to the end of the last track on the CD.
- 5 **SKIP FORWARD** When FWD is pressed from the Stop mode, the program will advance to the first track. When pressed from Play or Pause mode, the program will advance one track. Continuing to press FWD will advance one track each time.

CD PLAYER Continued

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|----|---------------------|---|
| 6 | SKIP/REVERSE | When REV is pressed from the Stop mode, the program will go back one track and begin playing the last track on the CD. When pressed from Play or Pause mode, the program will go back to the beginning of the track which was already playing. Continuing to press REV will step back one track at a time. |
| 7 | REPEAT/ENTER | Pressing Repeat once will continuously replay the selected track. Pressing it twice will replay all tracks continuously. Pressing Repeat a third time will clear the settings. |
| 8 | SHUFFLE | Pressing Shuffle from Stop, Play or Pause will result in random selection of tracks and begin playing continuously. Pressing Shuffle again will clear the program. |
| 9 | PROGRAM | In Stop mode, press Program and observe "P 1:" on the LCD. Press FWD and see "1:01", press FWD again and see "1 :02". Press enter and "2" will appear in the upper right of the LCD. Press FWD three more times and see "1:05". Press Enter and see "5" added to the LCD. Press play and the second track will play, then advance to track 5. After playing all the selected tracks the program advances to the end of the CD. Pressing Play will repeat the program. To clear the program in the Stop mode, just press Program. Individual selections can be cleared while they are playing by pressing Program. This will not affect other selected tracks. |
| 10 | EJECT | Pressing Eject from any mode will advance the program to the last track on the CD and eject the CD. "NO DISC" will appear on the LCD. |

NOTE: The CD player is capable of playing CD, CD-R and CD-RW discs, however due to the condition of the disc or the original it was copied from some discs may not play.

Powered Companion Speaker PA919PS

The Powered Companion PA has the same amplifier, power supply and speaker compliment as the full featured PowerPro PA919. It does not have the mixer panel because it can be controlled by the PowerPro PA919.

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 NM-316, OE-316, LM-316, CM-316 or HBM-316 microphone. Although there are 5 LEDs on the front of the PA919PS 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

As the transmitter on the PA919 is preset on channel 13, the receiver of the PA919PS is also set on 13. Any audio from the PA919 can be transmitted to the PA919PS without wiring. There is no limit on the number of PA919PS speakers that can be used with the PA919 within a range of 150 feet.

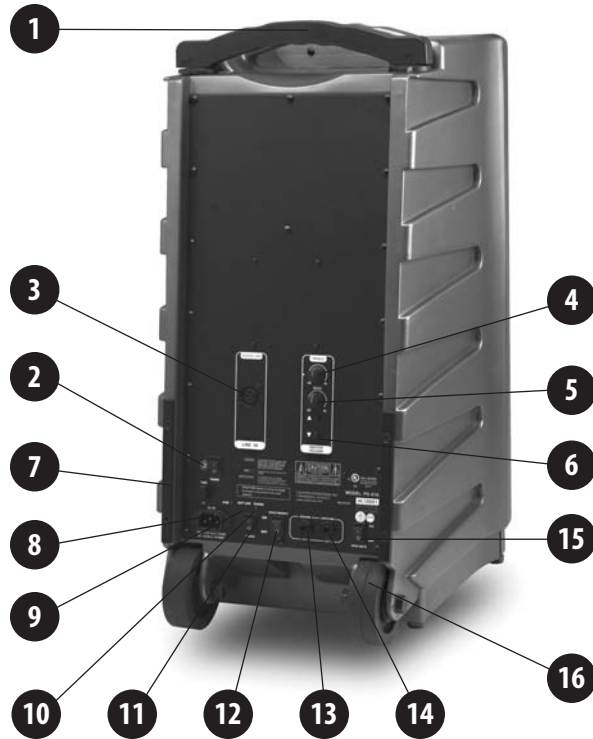
Audio Line Buss

When linking one or two PA919PS speakers to the PowerPro PA919 via audio line, the PSC-50 XLR cable is connected to Audio Line Out XLR connector on the PA919. 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 PA919 as well as all the Powered or Passive Companion Speakers, however the loudness needs to be adjusted via the Master Volume Control on the PA919PS as well.

Note: The mute switch on the PA919 will silence all speakers connected to it by cable. However in the full wireless mode using the transmitter of the PowerPro the mute will have no effect.

Power Pro PA919PS



- 1 Telescoping Handle
- 2 16-channel UHF wireless mic receivers
- 3 Audio Line Out XLR
- 4 Treble Control
- 5 Bass Control
- 6 Digital Master Volume
- 7 Dual Steel Skid Guards
- 8 A/C Power Socket
- 9 Battery Low/Charge Indicators
- 10 Green Power On Indicator
- 11 Power On/Off Switch
- 12 Voice Priority (Ducking) Switch
- 13 1/4" Phone Jack Speaker Out
- 14 1/4" Phone Jack Speaker Out Switched
- 15 Speaker Mute Switch
- 16 Integral Wheels

Passive Speaker System PA916-SP Operation

The PA916-SP is connected to one of two outputs from the PowerPro PA919 or Powered Companion Speaker via SP-50 Cable with 1/4" phone plugs.

Connecting to the "Speaker Out" jack will divide the power between the PowerPro PA919 or PA919PS and PA916-SP. Connecting to the "Switched Out" will disconnect the internal speakers of the PA919 and deliver all of the power to the PA916-SP.

NOTE: There are five (5) LEDs on the front of the speaker, however they are disabled on the PA916-SP.

Power Pro PA916-SP



- 1 Telescoping Handle
- 2 1/4" Phone Jack Speaker In
- 3 Integral Wheels

Specifications

Acoustic Speaker Compliment

Woofers	10" Diameter, 40 Oz. Magnet, 2" Dia. Voice Coil, 6 Ohm
Tweeter	Compression Horn Driver, 12 Oz. Magnet, 1" Voice Coil, 8 Ohm
Frequency Response	45Hz to 18KHz
Amplifier	90 Watts RMS @ 5% THD (AC)
Sound Pressure Level	94 dB, 1 Watt @ 1 Meter
Power Sources	100-240 volt AC switchmode power supply and 12 volt 7 AH maintenance-free lead acid batteries (2)

Wireless System

Receiver: Two 16-channel selectable UHF diversity wireless receivers 902 – 928 MHz.
Antennas are hidden internally.

Microphone Transmitters

Handheld wireless microphone or belt-pack transmitters optional. Belt-pack transmitter used with choice of hands-free headset, collar or lapel microphones shown on page 6.

CD Player

Built-in anti-shock mechanism. Fully programmable. Shuffle feature. Plays CD, CD-R/RW.

Tape Cassette

Full logic player and recorder. Automatic program search feature. 4-digit LCD tape counter. Variable speed. Auto reverse.

Transmitter to Powered Companion Speaker

16-Channel selectable UHF transmitter for wireless transmission from PA919 to an unlimited number of Califone UHF speakers within its 150 ft. range.

Audio Line

Line level XLR jacks (2) providing for attaching PA916-SP speakers via cable. Features volume control for remote speaker(s).


Mixer Panel

Mixer panel accepts two wired microphones via high quality combination connectors for both XLR and 1/4" phone plugs. Voice music switch adds emphasis in the voice range for longer range projection. Line-In via dual RCA jacks with volume control. Line-Out via dual RCA jacks. Separate Bass and Treble tone controls. Voice priority switch activates "ducking circuit" which overrides music programs when microphone is used. Speaker mute switch mutes the main speaker plus all other speakers connected. Speaker out. Both switched and unswitched 1/4" phone jacks for connecting speakers.

Dimensions	26 H x 12" W x 10" D
Ship Weight	64 lbs.

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