MAGNASONIC

USB Charging Alarm Clock Radio
with Dual Alarm and Battery Backup

EAAC470 / EAAC470W

Thank you for your purchase of this Magnasonic product. Please read this
user manual carefully before using product to ensure proper use.
Keep this manual in a safe place for future reference.

magnasonic.com/support

MAGNASONIC

STOP NEED HELP?

DO NOT RETURN THIS PRODUCT TO THE STORE

Please contact a Magnasonic customer support representative first regarding any additional information on product features, specifications or assistance with setup.

Please contact us via one of the methods below:

Support:
www.magnasonic.com/support

Online live web chat:
www.magnasonic.com

For more product information visit **www.magnasonic.com**

WARNINGS

WARNING
To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.

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 TO QUALIFIED USER PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral traingle, 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 electric shock to persons.

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 appliance.

WARNING
TO PREVENT ELECTRIC SHOCK; DO NOT USE THIS PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURES. TO PREVENT FIRE OR SHOCK HAZARD; DO NOT INSTALL THIS PRODUCT IN A CONFINED SPACE SUCH AS A BOOK CASE OR SIMILAR UNIT.

CAUTION: RETAIN THIS MANUAL FOR FUTURE REFERENCE

1. Read these instructions.
2. Keep these instructions.
3. Read all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. WARNING: Please refer to the information on exterior bottom enclosure for electrical and safety information before installing or operating the apparatus.
7. Clean only with a dry cloth.
8. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
10. 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 wide 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.
11. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
12. Only use attachments/accessories specified by the manufacturer.
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 power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Apparatus shall not be exposed to dripping or splashing, and that not objects filled with liquids, such as vases, shall be placed on the apparatus.
16. The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
17. The MAINS plug is used as the disconnect device, which shall remain readily operable.
18. The MAINS plug of apparatus should not be obstructed and should be easily accessed during intended use.
19. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
20. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
21. There should be a minimum distance of 5 cm around the apparatus for sufficient ventilation.
22. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.
23. No naked flame sources such as lighted candles should be placed on the apparatus.
24. Please use the apparatus in moderate climates.

25. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

26. Unwind and straighten the power cord before use.

27. **Damage Requiring Service**

     Unplug the power cord and refer servicing to qualified service professional under the following conditions:

     A.   If liquid has been spilled on or into the product.
     B.   If the product has been exposed to rain, water, or other liquids.
     C.   If the product does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
     D.   If the product has been dropped or damaged in any way.
     E.   When the product exhibits a distinct change in performance. This may indicate a need for service.

28. **Servicing**

     Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to a qualified service professional.

29. **Replacement Parts**

     When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer, or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

30. **Safety Check**

     Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

FCC statement on regulation

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)   This device may not cause harmful interference.
(2)   This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT SAFETY INFORMATION

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

This class[B] digital apparatus complies with Canadian ICES-003.

This marking indicates that this product should not be disposed with other household wastes throughout North America. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

⚠ WARNING
DO NOT INGEST BATTERY, CHEMICAL BURN HAZARD

This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention. Attention should be drawn to the environmental aspects of battery disposal.
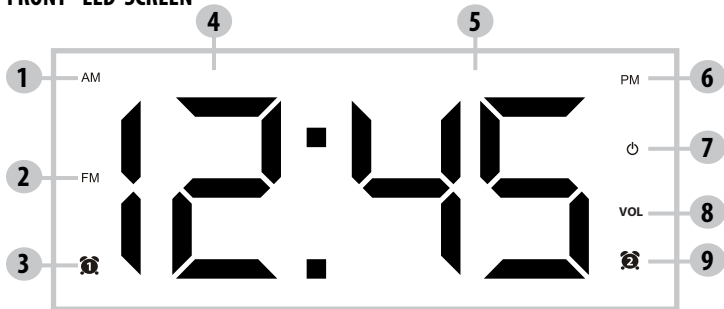
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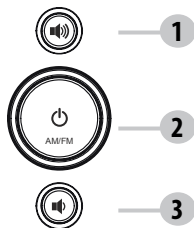
PRODUCT INFORMATION

FRONT - LED SCREEN

1	LED dot appears, indicating AM Band is selected
2	LED dot appears, indicating FM Band is selected
3	Alarm 1 - LED dot appears, when Alarm 1 is set
4	Displays the hour
5	Displays the minutes
6	LED dot appears, indicating time is set to PM
7	LED dot appears, to indicate LED Time Display is set to OFF
8	Volume Setting
9	Alarm 2 - LED dot appears, when Alarm 2 is set

FRONT BUTTONS

1	Increases Volume
2	Turns Power ON/OFF /AM/FM Band Selector
3	Decreases Volume

REAR PANEL
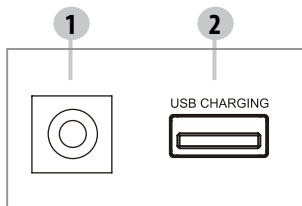
1	Power Input
2	Charges USB devices

USB CHARGING

TOP BUTTONS
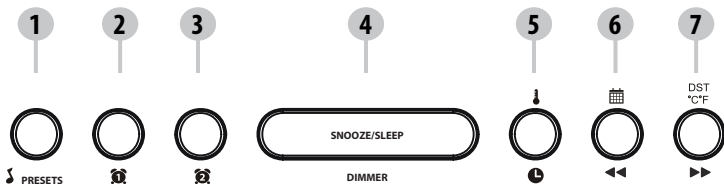
1	**Set Radio Presets**
2	**Set ALARM 1**
3	**Set ALARM 2**
4	**SNOOZE / SLEEP / LED BRIGHTNESS / TIME ZONE**
5	**Set TIME / Y-M-D / 24h-12h Clock ; View Temperature**
6	**View D-M-Y / Tune-Scan Radio (BACK)**
7	**Set DST / Tune-Scan Radio (FORWARD) / Select °C OR °F**

BOTTOM
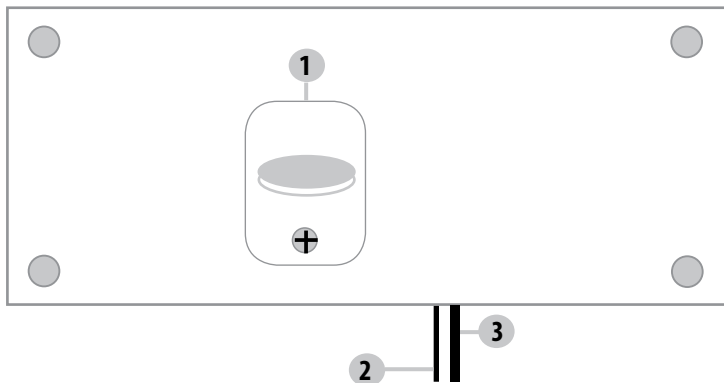
1	Battery compartment for 1 x 3V, CR2032 Flat Lithium battery
2	FM Antenna
3	Indoor Temperature Sensor

CONNECTING POWER

The USB Charging Alarm Clock Radio is equipped with an "AUTO TIME SET" feature. When power is connected, the clock display will flash '2' which is TIME ZONE 2 (Eastern time) and the default TIME ZONE setting. The correct time will be displayed, unless you are in another time zone.

To select TIME ZONE 2 (Eastern time) as your default time zone:

• Press ● ONCE to confirm your selection.

To change your time zone upon setup:

• Press ◀◀ / ▶▶ until your own time zone appears on the display; press ● ONCE to confirm your selection.

To change your time zone after setup:

• Press and hold the **SNOOZE/SLEEP/DIMMER** button until numbers flash.
• Press ◀◀ / ▶▶ until your own time zone appears on the display; press ● ONCE to confirm your selection.

There are 8 programmed times zones:

Zone 0 - Newfoundland time	Zone 3 - Central time	Zone 6 - Alaska time
Zone 1 - Atlantic time	Zone 4 - Mountain time	Zone 7 - Hawaiian time
Zone 2 - Eastern time (default)	Zone 5 - Pacific time	

BATTERY BACKUP

This alarm clock is equipped with a battery backup feature. This feature will restore your alarm clock settings in the event of a power outage. The 3V, CR2032 Flat Lithium battery is pre-installed at the factory, however, should you need to replace the battery, please read the following instructions.

INSTALLING THE BATTERY

1. Using a small Phillips Head screwdriver, remove the screw from the battery panel on the bottom of the unit.
2. Remove the battery compartment panel.
3. Remove/properly dispose of depleted battery and replace with new, 3V, CR2032 Flat Lithium battery.
4. Close the battery compartment and put screw into place to secure battery panel.

- **Batteries must be installed by an adult.**
- **Use only the recommended size and type of battery specified.**
- **Please be sure to follow the correct polarity when installing the battery in the battery compartment. A reversed battery may cause damage to the alarm clock.**
- **When not using the unit for a prolonged period of time, please remove the batteries to avoid possible damage caused by leaking batteries.**

ATTENTION

- When replacing the battery, do not disconnect AC plug from AC outlet. Current time and alarm will be initialized.
- Do not plug or unplug the power cable if you have wet hands.
- If you are not planning to use the unit for an extended period of time, disconnect the power cable from the wall outlet.
- **Do not pull on the cord!** You may damage the power cord and may cause an electric shock when disconnecting the power cord from the wall outlet. Pull firmly at the base of the plug.

DAYLIGHT SAVING TIME (DST) / SUMMER TIME

Daylight Saving Time/Summer Time is automatically preset.

- Daylight saving time begins at: 2:00 AM on the second Sunday of March.
- Standard time begins at: 2:00 AM on the first Sunday of November.

Cancelling / reactivating Automatic DST/Summer Time

1. To CANCEL DST/Summer Time, press and hold the ▶▶ **DST/°C °F** button for 3 seconds while the radio is OFF.
2. 'OFF' will appear in the display to show that the Automatic DST/Summer Time adjustment is cancelled. The display will return to the clock.

3. To REACTIVATE DST/Summer Time, press and hold the ▶▶ **DST/°C °F** button for 3 seconds while the radio is OFF.
4. **'ON'** will appear in the display to show that the Automatic DST/Summer Time adjustment is reactivated. The display will return to the clock.

- The timing of Automatic DST/Summer Time employed by the unit (see above) is subjected to variations by region and the law in each country/region. In such a case, cancel the Automatic DST/Summer Time adjustment.
- If you live in a country/region that has not introduced Daylight Saving Time/ Summer Time, you must cancel Automatic DST/Summer Time adjustment before using the unit.

SETTING THE DATE & TIME
To change the Date/Time, press and hold the ● button. The settings below will appear in the following order:

Year > Month > Day > 12/24 H > Hour > Min

1. Press the ◀◀ button to DECREASE numbers or to toggle through settings.
2. Press the ▶▶ button to INCREASE numbers or to toggle through the different settings.
3. To confirm your selection, press the ● button once again.

- LED dot appears to the right of PM indicating time is set to PM; no dot for AM.
- **Pressing the ◀◀ or the ▶▶ buttons once,** decreases/increases <u>one number at a time.</u>
- **Pressing and holding the ◀◀ or the ▶▶ buttons** <u>quickly decreases/increases the numbers.</u>

SETTING ALARM 1 & ALARM 2

To set ALARM 1, press and hold the 🔔 button and alarm time will flash. The settings below will appear in the following order:

AL 1 Hour > AL 1 Min > AL 1 Alarm Modes > AL 1 Wake Options > AL 1 Radio Volume

1. Press the ◀◀ / ▶▶ buttons to decrease/increase the HOUR; press the 🔔 button to confirm HOUR. The MINUTES will begin to flash.
2. Press the ◀◀ / ▶▶ buttons to decrease/increase the MINUTES; press the 🔔 button to confirm MINUTES. ALARM MODES will flash.

ALARM MODES allows you to set more than one alarm in a week i.e. ALARM 1 set to wake you Monday-Friday and ALARM 2 set to wake you on weekends. The ALARM MODE settings are as follows:

1-5 : Monday to Friday	**3: Wednesday**
1-7 : Whole week	**4: Thursday**
6-7 : Saturday & Sunday	**5: Friday**
1 : Monday	**6: Saturday**
2 : Tuesday	**7: Sunday**

3. Press the ◀◀ / ▶▶ buttons to toggle between the ALARM MODE settings then press the 🔔 button to confirm your selection. The WAKE OPTIONS will begin to flash.
4. Press the ◀◀ / ▶▶ buttons to toggle between the WAKE OPTIONS AM, FM or BELL; press the 🔔 button to confirm your selection. If AM or FM is selected the Radio Volume selection will begin to flash.
5. Press the ◀◀ / ▶▶ buttons to decrease/increase the Radio Volume; press the 🔔 button to confirm your selection, and complete the alarm set up.
6. Alarm will be armed once alarm setup is completed.

SETTING ALARM 2
To set ALARM 2, press and hold the 🕿 button and alarm time will flash. The settings below will appear in the following order:

AL 2 Hour > AL 2 Min > AL 2 Alarm Modes > AL 2 Wake Options > AL 2 Radio Volume

1. Press the ◀◀ / ▶▶ buttons to decrease/increase the HOUR; press the 🕿 button to confirm HOUR. The MINUTES will begin to flash.
2. Press the ◀◀ / ▶▶ buttons to decrease/increase the MINUTES; press the 🕿 button to confirm MINUTES. ALARM MODES will flash.

ALARM MODES allows you to set more than one alarm in a week i.e. ALARM 1 set to wake you Monday-Friday and ALARM 2 set to wake you on weekends. The ALARM MODE settings are as follows:

1-5 : Monday to Friday	**3: Wednesday**
1-7 : Whole week	**4: Thursday**
6-7 : Saturday & Sunday	**5: Friday**
1 : Monday	**6: Saturday**
2 : Tuesday	**7: Sunday**

3. Press the ◀◀ / ▶▶ buttons to toggle between the ALARM MODE settings then press the 🕿 button to confirm your selection. The WAKE OPTIONS will begin to flash.
4. Press the ◀◀ / ▶▶ buttons to toggle between the WAKE OPTIONS AM, FM or BELL; press the 🕿 button to confirm your selection. If AM or FM is selected the Radio Volume selection will begin to flash.
5. Press the ◀◀ / ▶▶ buttons to decrease/increase the Radio Volume; press the 🕿 button to confirm your selection, and complete the alarm set up.
6. Alarm will be armed once alarm setup is completed.

To **deactivate** ALARM 1 and/or ALARM 2, tap the 🕿 button and/or the 🕿 button until the LED is no longer visible on the front LED panel.

ALARM DURATION
The BUZZER alarm or RADIO alarm will sound for 30 minutes if no key is pressed, then it will stop automatically and resume to the same alarm time on next scheduled day. To stop ALARM 1 and/or ALARM 2 when sounding, press the ⏻ button on the front of the unit.

SNOOZE FUNCTION
When alarm is sounding, press the **SNOOZE/SLEEP** button to stop alarm for 9 minutes. Alarm will resume after 9 minutes.
- Pressing the ⏻ button on the front of the unit will CANCEL the Snooze function
- Snooze function will also stop automatically after 30 minutes.

SLEEP TIMER
The sleep timer allows you to listen to music for a preset amount of time ranging from 90 minutes to 15 minutes. It is commonly used by people who prefer to fall asleep to music.
1. Press the ⏻ button to turn the radio 'ON'.
2. Press the **SNOOZE/SLEEP** button to toggle through the preset times;
   90min > 60min > 30min > 15min > OFF
3. To cancel the SLEEP timer, press the **SNOOZE/SLEEP** button until you see OFF in the display or press the ⏻ button to turn off the radio.

ADJUSTING LED BRIGHTNESS

You can adjust the brightness of the LED display making it brighter, dimmer or even turning it OFF when the radio is OFF. There are four dimming options available: HIGH/MEDIUM/LOW/OFF (Standby). Press the **DIMMER** button to toggle between the four brightness settings.

LISTENING TO THE RADIO

1. Press the ⏻ button on the front panel to turn the radio 'ON'.
2. Press and hold the ⏻ **AM / FM** button to toggle between AM and FM radio bands.
3. Press the ◀◀ /▶▶ buttons once, to move back/move forward one station at a time.
4. Press and hold the ◀◀ /▶▶ buttons for one second to scan back/forward through the stations; the unit will automatically scan to the next broadcasting station.
5. Press the ⏻ button on the front panel to turn the radio 'OFF'.

Please ensure that the FM antenna is completely unrolled and extended for best FM reception. The AM band uses an internal directional aerial. For best reception, please rotate the radio.

TO SET / RECALL THE RADIO PRESETS

1. Press the ⏻ button on the front panel to turn the radio 'ON'.
2. Press and hold the ⏻ **AM / FM** button to toggle between AM and FM radio bands.
3. Use the ◀◀ /▶▶ buttons to select the desired radio station.
4. Press and hold the ♪ **PRESETS** button; 'P02' will blink in the display.
5. Use the ◀◀ /▶▶ buttons to toggle to the desired preset 'P01-P10' number.
6. Press the ♪ **PRESETS** button again to set the preset.
7. Repeat steps 2 through 4 to set more presets.
8. To select a preset station, press the ♪ **PRESETS** button until desired preset station appears on the LED panel.

The unit supports up to 10 AM & 10 FM preset stations.

USB CHARGING FUNCTION

This alarm clock is equipped with a convenient USB charging port on the back panel that allows you to recharge many brands of smartphones, tablets and portable music players. To charge your device, connect the USB charging cable that is connected to your handheld device to the USB charging port on the back panel of this alarm clock.

> **Charging time will vary depending on the charging current that your device requires.**
> **Therefore, some devices will take longer to charge than others.**

Please consult the Troubleshooting chart below before communicating with Magnasonic Customer Support.

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
GENERAL		
Power does not come on	AC cord not plugged in	Insert plug firmly into AC outlet
RADIO		
No Sound	Power is not on	Press the ⏻ button
	VOLUME control at minimum position	Turn the VOLUME control up
Noise or sound distorted on AM or FM	AM-interference from traffic	Tune the radio for better AM reception
	FM-antenna wire not extended	Extend antenna wire
SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
CLOCK		
Incorrect Time	Clock not set	Set the clock
	Battery is inserted incorrectly, or depleted	Check/replace the battery
Alarm does not turn on	Alarm is not set to turn on	Activate ALARM 1 ❶ or ALARM 2 ❷
	Clock is not set	Set the clock
	Alarm time is not set	Set alarm time for ALARM 1 or ALARM 2
No display	Dimmer is set to Standby Mode	Press Dimmer button

CARE AND MAINTENANCE

1. Disconnect the unit from any power sources before cleaning.
2. Keep the unit away from magnetic objects, water or heat sources.
3. Clean only with a dry cloth.

Time Display Size	1.2"
Display Type	LED
Automatic Time Set	Yes
Battery Back-up for Time	Yes
PLL Digital Radio Tuner	Yes
Radio Station Pre-sets	Yes 10 AM / 10 FM
Dual Alarm	Yes
Calendar Display	Yes
Indoor Temperature Reading	Yes
Adjustable Brightness	Off, Low, Medium, High
Sleep Timer	Yes
Battery Required	Lithium, Included (3V CR2032)
USB Charging	Yes, 1000mA
Speaker Size	1.5" 0.5W, 8 Ohms
Volume Indicator LED	Yes
Power Input	100-240V 50-60 Hz
Frequency Range (AM)	520-1710 kHz
Frequency Range (FM)	87.5-107.9 MHz
Screen Size	4.0"
Alarm Options	Gradual Radio / BELL

MAGNASONIC WARRANTY

Thank you for choosing Magnasonic. We guarantee your investment in our products is a solid one! Extensive thought, research, planning and design goes into every product we make. High quality components combined with precision manufacturing allows us to maintain the highest possible production standards. All items are guaranteed against defects in materials and craftsmanship.

Magnasonic products come with a complete one-year parts and labour warranty. This warranty is non-transferable and proof of purchase is required when seeking warranty assistance. Magnasonic has outstanding quality control, if something should go wrong with any of our products, we will repair it free of charge! If the product cannot be repaired, we will replace the product. If the product has been discontinued, we will replace the product with either the newest version of said product or current equivalent. Replacement parts furnished in connection with this warranty shall be warranted to a period equal to the unexpired portion of the original product warranty.

This warranty shall not apply to:

A. Any defects caused or repairs required as a result of abusive operation, negligence, accident, improper installation or inappropriate use as outlined in the owner's manual.
B. Any Magnasonic product tampered with, modified, adjusted or repaired by any party other than Magnasonic.
C. Any cosmetic damage to the surface or exterior that has been defaced or caused by normal wear and tear.
D. Any damage caused by external or environmental conditions, including but not limited to transmission line/power line voltage or liquid spillage.
E. Any product received without appropriate model, serial number and CSA /cUL /cULus /cETL /cETLus markings.
F. Any products used for rental or commercial purposes.
G. Any installation, setup and/or programming charges.

If in any situation your purchase displays a manufacturer's defect during the warranty period and does not function correctly, Magnasonic will repair your product and cover all parts, labour, and return costs upon delivery of the Magnasonic product together with proof of purchase. Products returned to Magnasonic for warranty service must be shipped prepaid (paid by the customer). Products must be shipped in the original shipping container or its equivalent; in any case the risk of loss or damage in transit is to be borne by you.

We believe in music's power to bring people together. We pledge to work with you in resolving any issue that occurs with your product. If you are in need of assistance do not hesitate to contact us via our Contact Us page on www.magnasonic.com/support.