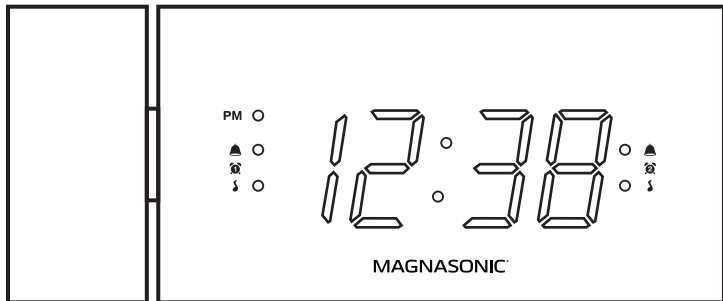


MAGNASONIC

Alarm Clock Radio
with USB Charging and Time Projection

CR20

User Manual v1.1



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

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MAGNASONIC

Since 1954, Magnasonic has been a leader in developing innovative and unique products. We are dedicated to empowering people using six key fundamentals: superior quality, performance, simplicity, style, value and a fanatical obsession with outstanding customer service. At Magnasonic, our mission is a simple one – create people-driven products that make life's daily adventures easier and more fun. We believe everyday experiences should be extraordinary.

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 a 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 wide blade or the third prong are 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 the 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 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. Clean the screen only with a dry cloth. Do not clean the inside of this product.
16. Check that the power voltage stated on the rating label corresponds to your local electricity supply.
17. Do not immerse this product, the power cord or any accessories in water or any other liquid.
18. Unwind and straighten the power cord before use.
19. Damage Requiring Service: Unplug the power cord and refer servicing to qualified service professional under the following conditions:
 - If liquid has been spilled on or into the product.
 - If the product has been exposed to rain, water, or other liquids.
 - 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.
 - If the product has been dropped or damaged in any way.
20. When the product exhibits a distinct change in performance. This may indicate a need for service.

21. 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.
22. 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.
23. 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.
24. Caution marking is located at the back of apparatus.
25. The marking information is located on the bottom of apparatus.

WARNING INFORMATION

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 - 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 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 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: 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.

CAUTION

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

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 spaced such as a book case or similar unit.

1. No naked flame sources, such as lighted candles, should be placed on the apparatus.
2. Do not place the product in closed bookcases or racks without proper ventilation.
3. The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
4. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
5. It shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
6. Do not connect FM antenna to outside antenna.

7. The unit should not be exposed to direct sunlight, very high or low temperature, moisture, vibrations or placed in dusty environment.
8. Do not use abrasive, benzene, thinner or other solvents to clean the surface of the unit. To clean, wipe it with mild non-abrasive detergent solution and clean soft cloth.
9. Never attempt to insert wires, pins or other such objects into the vents or opening of the unit.
10. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
11. Attention should be drawn to the environmental aspects of battery disposal.
12. Minimum distances 5 cm around the apparatus for sufficient ventilation.
13. The use of apparatus in moderate climates.



Do not dispose this product into usual household garbage at the end of its life cycle; hand it over to a collection center for recycling the electrical and electronic appliances. By recycling, some of the materials can be reused. You are making an important contribution to protect our environment. Please inquire your community administration for the authorized disposal center.

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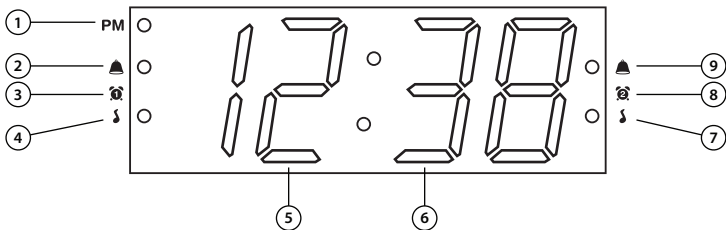
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WHAT'S INCLUDED

- Clock Radio
- Power Adapter
- User Manual
- Flat Lithium Battery (installed)

PRODUCT INFORMATION

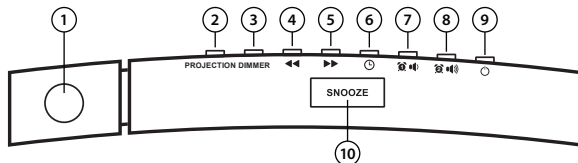
LED DISPLAY



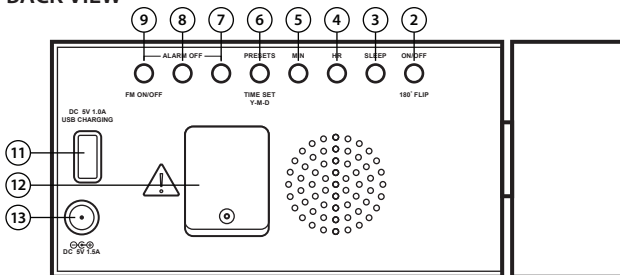
- | | |
|-----------------------------|-----------------------------|
| 1. PM Indicator | 6. Minute |
| 2. Alarm 1 Buzzer Indicator | 7. Alarm 2 Music Indicator |
| 3. Alarm 1 Indicator | 8. Alarm 2 Indicator |
| 4. Alarm 1 Music Indicator | 9. Alarm 2 Buzzer Indicator |
| 5. Hour | |

BUTTONS AND FUNCTIONS

TOP VIEW



BACK VIEW

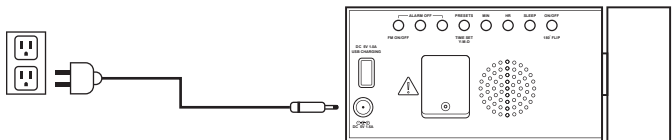


1. Projection Lens
2. Projection Control
Tap → ON/OFF
Hold → Flip 180°
3. Tap → Dimmer Button (HI, LO1, LO2, LO3, OFF)
Hold → Sleep (90, 60, 30, 15 min)
4. Back Arrow Button/Hour Adjustment
5. Forward Arrow Button/Minute Adjustment
6. Tap → Year/Month/Day Display
Hold → Time Set Button
Radio On – Tap → Preset Cycle
Radio On – Hold → Set Preset
7. Tap → Alarm 1 Display – On/Off
Hold → Set Alarm 1
Radio On – Volume Up
Alarm Off
8. Tap → Alarm 2 Display – On/Off
Hold → Set Alarm 2
Radio On – Volume Down
Alarm Off
9. FM Radio On/Off
Alarm Off
10. Snooze (9 min)
11. USB Charging Port
12. Backup Battery
13. DC Power Input

QUICK START GUIDE

CONNECTING POWER

Connect the power adapter to the DC input on the back of the clock. Then connect the adapter plug to a standard AC wall outlet.



SETTING THE DATE/TIME

1. Press and hold the button to enter time set mode.
2. Use the button to adjust the Month and use the button to adjust the Day. Press the button to proceed to the Year.
3. Use the and buttons to change the Year. Press the button to proceed to the Time Format.
4. Use the and buttons to change between 12hr and 24hr formats. Press the button to proceed to the Time.
5. Use the button to adjust the Hour and use the button to adjust the Minute. Press the button to finish setting the time.

Note: When setting the Hour you can select AM or PM by cycling through all 24 hours. An LED dot will appear next to PM on the LED display indicating time is set to PM. If setting to AM, ensure there is no dot next to PM.

DIMMER FUNCTION

Press the DIMMER button to cycle through the LED display brightness options of HI, LO1, LO2, LO3 (lowest), and OFF.

Note: Selecting OFF will turn the display off completely. Pressing a button will bring the display back temporarily.

SETTING AN ALARM

1. To set Alarm 1, press and hold the  button and alarm time will flash.
2. Use the  button to adjust the Hour and use the  button to adjust the Minute. Press the  button to proceed to setting the Alarm Type.
3. Use the  and  buttons to change between Bell Alarm and Radio Alarm. The radio station for the alarm will be the last selected station on the radio. Press the  button to proceed.
4. If Radio Alarm was selected, the next step will be selecting the volume of the alarm. Use the  and  buttons to pick between the minimum 5 and maximum 15. Press the  button to proceed to setting the Alarm Mode.
5. Alarm Mode allows you to customize the days of week that the alarm sounds. Use the  and  buttons to pick the desired mode. Press the  button to complete setting Alarm:
 - 1 - 7: Whole Week
 - 1 - 5: Monday to Friday
 - 6 - 7: Saturday & Sunday

The Bell or Music LED alarm indicator will light up once the setting process is complete.

6. When the alarm is sounding, press any of the **ALARM OFF** buttons to silence the alarm.
***Note:** If the Alarm is not silenced it will sound for 30 minutes and turn off automatically.*
7. To enable or disable the alarm press the  button. The Bell or Music LED alarm indicator will disappear if alarm is disabled.

SNOOZE FUNCTION

Note: The Snooze button is a touch sensitive button. To ensure proper operation, press directly on the button.

When the alarm is sounding, press  to silence the alarm for 9 minutes. After 9 minutes the alarm will resume. The snooze function can be used seven times after which the alarm is cancelled.

Press any of the **ALARM OFF** buttons to cancel the Snooze function and turn off the alarm.

RADIO FUNCTION

1. Press the  / **FM ON/OFF** button to turn the radio on or off.
2. Press the  and  buttons to move forward/backward one station at a time.
3. Press and hold the  and  buttons to scan forward/backward to the next broadcasting station.

Note: Please ensure the FM antenna is completely unrolled and extended for best FM reception.

4. Use the  and  buttons to adjust the music volume.

RADIO PRESET FUNCTION

SETTING A RADIO PRESET

1. Press the  / **FM ON/OFF** button to turn the radio on.
2. Press the **◀** and **▶** buttons to select your desired radio station.
3. Press and hold the **PRESETS** button to begin the radio preset setting process.
4. Use the **◀** and **▶** buttons to select your desired preset number.
There are a total of 10 preset slots.
5. Press the **PRESETS** button to set the selected preset number to the current radio station.

***Note:** The preset number will flash twice to confirm the preset was set successfully.*

SELECTING A RADIO PRESET

Press the **PRESETS** button to cycle through the 10 presets until the desired preset is displayed

SLEEP FUNCTION

The Sleep timer allows you to listen to music for a preset amount of time. It is commonly used to fall asleep to music.

1. Press the  / **FM ON/OFF** button to turn the radio on. Press and hold the **SLEEP** button for 2 seconds to enter Sleep Timer setting mode.
2. Press the **SLEEP** button to select the desired time from the available preset times of 90, 60, 30, and 15 minutes.

***Note:** You can also select OFF to cancel a Sleep Timer.*

3. Press and hold the **SLEEP** button to check the time remaining on the Sleep Timer.

USB CHARGING FUNCTION

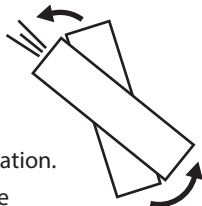
Connect your electronic device to the USB port on the back of the clock to charge it. The USB port cannot be used for music playback.

Note: *Charging time will vary depending on the charging current that your device requires. Therefore, some devices will take longer to charge than others. For best charging results, your device's screen should be turned off.*

PROJECTION FUNCTION

Important: *The projected image works best in a dark environment and at a range of 3 to 6 ft.*

1. Press the **PROJECTION** button to turn the projection On or Off.
2. Adjust the angle of the projection unit forward or backward until the projection is in the desired location.
3. Press and hold the **PROJECTION** button to flip the projected time 180°.



BATTERY BACKUP

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

ATTENTION - REPLACING THE BATTERY

- 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 clock radio.
- When not using the unit for a prolonged period of time, please remove the battery to avoid possible damage caused by leaking.
- 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.

DISABLING BATTERY BACKUP

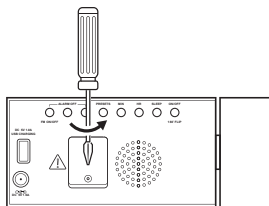
If the alarm clock is unplugged when an alarm is enabled, the battery backup feature will ensure the alarm sounds. To disable the alarm without connecting to power, remove the battery from the back of the unit.

REPLACING THE BATTERY

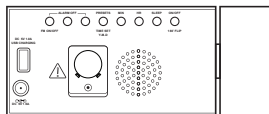
If your clock does not save settings after a power outage the backup battery may need to be replaced. Remove power by unplugging the clock and follow the below steps to replace the 3V, CR2032 Flat Lithium battery.

1. Loosen the screw using a small Phillips Head screwdriver. Note: The screw is designed to be held by the battery panel and cannot be fully removed from the panel.

Note: The screw is designed to be held by the battery panel and cannot be fully removed from the panel.



2. Remove the battery compartment panel.

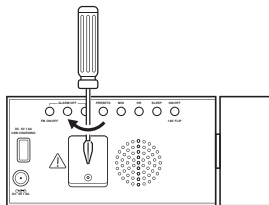


3. Remove and recycle the depleted battery. Replace with a new 3V, CR2032 Flat Lithium battery.



4. Close the battery compartment and tighten the screw to secure the battery panel.

Note: The Date, Time, and Alarm settings will need to be set again once connected to power.



TROUBLESHOOTING

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

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
GENERAL		
No Display	Power Cord not plugged in to wall outlet or to clock	Ensure power cord is firmly connected
	Screen brightness is set to OFF	Tap DIMMER button to change LED brightness
	Screen brightness is set to LOW	Low brightness is best for darker environments. Tap DIMMER button to change LED brightness
RADIO		
No Sound	Radio is not on	Press the FM ON/OFF button
	Volume is at minimum setting	Press the VOLUME UP button
Noise or sound distorted on FM	FM antenna is not fully extended	Unroll and extend the antenna
CLOCK		
Incorrect time	Clock not set to correct time	Ensure clock is set to correct time
	Battery is inserted incorrectly, or depleted	Check/replace the battery and ensure time is set to correct time
Alarm does not turn on	Alarm is not set to turn on	Set Alarm 1 or Alarm 2 to Music or Bell to enable
	Clock is set to incorrect time/date	Set the time to correct time/date
	Alarm time is not set	Set alarm time for Alarm 1 or Alarm 2

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.

SPECIFICATIONS

Display Size	1.2" LED
Adjustable Brightness	HI, LO1, LO2, LO3, OFF
Volume Indicator LED	Yes
Automatic Time Set	No
Daylight Savings	No
Time Zones	No
Number of Alarms	2 (week, weekday, weekend)
Time Restore/ Sure Alarm	1 x 3V, CR2032 Flat Lithium Battery
Alarm Type	Radio, Buzzer
PLL Digital Radio Tuner	FM
Frequency Range	87.5 – 108 MHz,
Radio Station Pre-Sets	10 pre-sets
USB Charging	Yes, 1 port 5V 1.0A (5W)
Calendar Display	Yes
Sleep Timer	Yes – up to 90 mins
Snooze Function	Yes – 9 mins
Speaker Size	1.6 inches
Projection	180° Tilt, Flip
Power Adapter Input	AC 100-240V, 50/60Hz
Power	DC 5V 1.5A
Dimensions	3.2 x 7.4 x 1.0 inches (HxWxD)
Unit Weight	0.9 lbs
Unit Color	Black

IC AND FCC STATEMENTT

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, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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

Déclaration de la FCC sur la réglementation

Cet appareil est conforme a la partie 15 des regles FCC. Le fonctionnement est autorise sous reserce des deux conditions suivantes:

1. Cet appareil ne doit pas provoquer d'interference nuisible, et
2. Cet appareil doit accepter toute interference recue, y compris les interferences pouvant provoquer un mauvais fonctionnement.

Cet appareil numérique de classe [B] est conforme à la norme ICES-003 canadienne.

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. Proof of purchase from an authorized Magnasonic dealer 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 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 everyday experiences should be extraordinary. 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 visit our support page at:
www.magnasonic.com/support/

MAGNASONIC

Thank you for your purchase of your Magnasonic product.
We hope you enjoy your experience.

Help others make the right choice, leave a product review
and share your experience.

Questions? Give us a chance to help, we're just a click away.



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Don't forget to register your product with us!

Receive faster, easier warranty assistance | Receive product safety or recall alerts

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