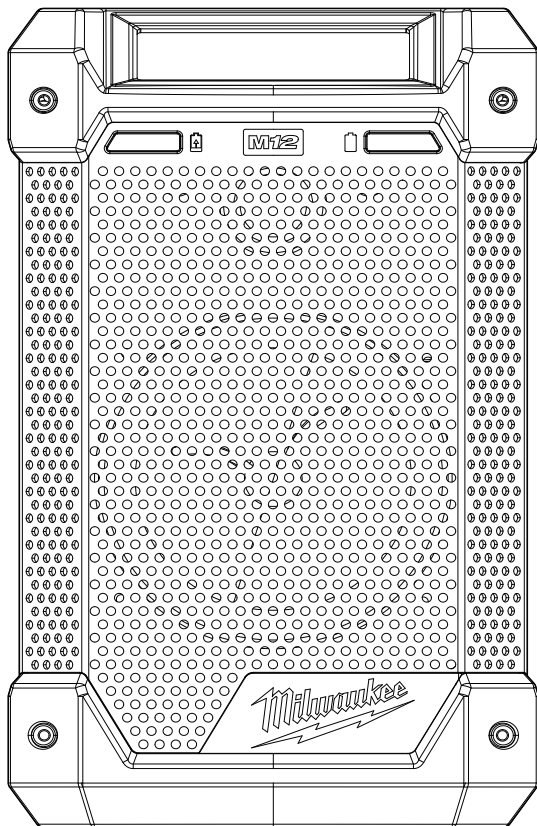




OPERATOR'S MANUAL



Cat. No.
M12 RCDAB+

M12™ RADIO + CHARGER with DAB+



WARNING



To reduce the risk of injury, user must read and understand operator's manual.

IMPORTANT SAFETY INSTRUCTIONS

RADIO SAFETY

⚠WARNING

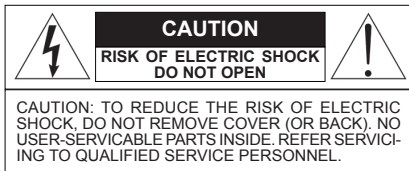
- 1) **SAVE THESE INSTRUCTIONS** - THIS OPERATOR'S MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS FOR **MILWAUKEE®** LI-ION M12™ RADIO + CHARGER WITH DAB+.
- 2) **BEFORE USING, READ THIS OPERATOR'S MANUAL, YOUR BATTERY PACK OPERATOR'S MANUAL, AND ALL LABELS ON THE BATTERY PACK AND RADIO + CHARGER.**
- 3) Read these instructions.
- 4) Keep these instructions.
- 5) Heed all warnings.
- 6) Follow all instructions.
- 7) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- 8) Children should be supervised to ensure that they do not play with the appliance.
- 9) Do not use this apparatus near water.
- 10) Clean only with dry cloth.
- 11) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 12) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 13) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 14) Only use attachments/accessories specified by the manufacturer.
- 15) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 16) 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.
- 17) **⚠WARNING** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place open flames or candles near or on the radio.
- 18) Only plug power supply into readily accessible outlet to allow the appliance to be unplugged quickly.
- 19) Only operate this apparatus in a well-ventilated area.
- 20) A separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.
- 21) Use battery operated Radio + Charger only with specifically designated battery packs. Use of any other batteries may create a risk of fire.

- 22) When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause sparks, burns, or a fire.
- 23) Do not use any adaptor plugs.
- 24) Never disassemble the radio or try to do any rewiring on the radio's electrical system.
- 25) Do not expose this apparatus to dripping and splashing water, or place objects filled with liquids on this unit.
- 26) Maintain labels and nameplates. These carry important information. If unreadable or missing, contact a **MILWAUKEE®** service facility for a replacement.
- 27) The adaptor supplied with this Radio + Charger is designed to be powered by a standard 230-240V socket outlet. The radio can also be powered using a **MILWAUKEE®** M12™ Li-Ion battery pack. The Radio + Charger must be plugged into an appropriate outlet. Do not attempt to use with any other voltage or power supply.

CHARGER SAFETY

- 28) **CAUTION - TO REDUCE THE RISK OF INJURY, CHARGE MILWAUKEE® LI-ION PACKS ONLY IN THEIR MILWAUKEE® LI-ION CHARGER.** Other types of chargers may cause personal injury or damage. Battery pack and charger are not compatible with VT™-technology or NiCd systems. Do not wire a battery pack to a power supply plug or car cigarette lighter. Battery packs will be permanently disabled or damaged.
- 29) **AVOID DANGEROUS ENVIRONMENTS.** Do not charge battery pack in rain, snow, damp or wet locations. Do not use battery pack or charger in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials) because sparks may be generated when inserting or removing battery pack, possibly causing fire.
- 30) **CHARGE IN A WELL VENTILATED AREA.** Do not block charger vents. Keep them clear to allow proper ventilation. Do not allow smoking or open flames near a charging battery pack. Vented gases may explode.
- 31) **DO NOT SHORT CIRCUIT.** A short circuited battery pack may cause fire, personal injury, and product damage. A battery pack will short circuit if a metal object makes a connection between the positive and negative contacts on the battery pack. Do not place a battery pack near anything that may cause a short circuit, such as coins, keys or nails in your pocket.
- 32) **DO NOT ALLOW FLUIDS TO FLOW INTO BATTERY PACK.** Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or products containing bleach, etc., can cause a short circuit.
- 33) **USE ONLY RECOMMENDED ATTACHMENTS.** Use of an attachment not recommended or sold by the battery charger or battery pack manufacturer may result in a risk of fire, electric shock or personal injury.
- 34) **UNPLUG CHARGER** when not in use. Remove battery packs from unplugged chargers.

- 35) TO REDUCE THE RISK OF ELECTRIC SHOCK,** always unplug charger before cleaning or maintenance. Use a residual current device (RCD) to reduce shock hazards.
- 36) STORE YOUR BATTERY PACK AND CHARGER** in a cool, dry place. Do not store battery pack where temperatures may exceed 50°C (120°F) such as in direct sunlight, a vehicle or metal building during the summer.



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.

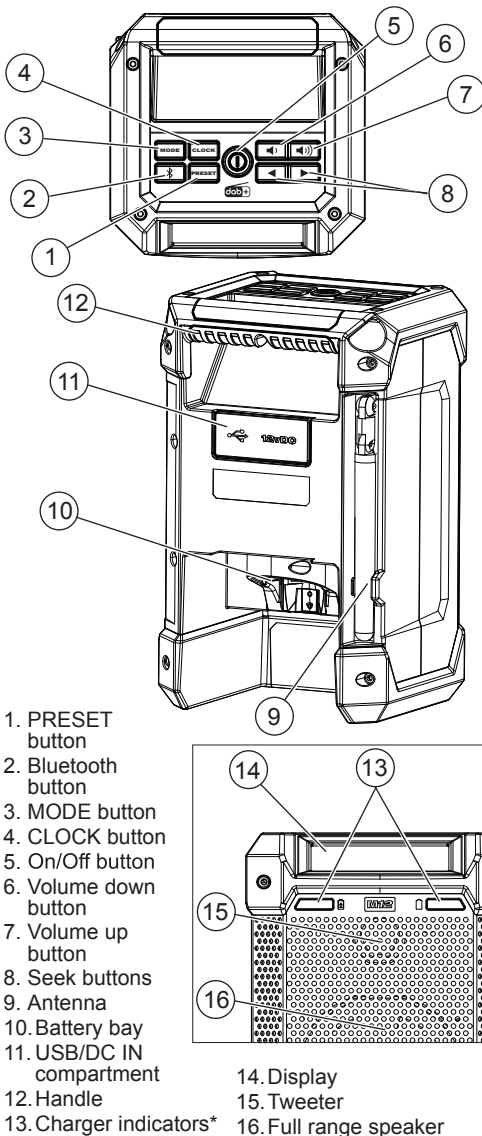
SYMBOLGY

	Volts
	Direct Current
	Alternating Current
	Amps
	Hertz
	Double Insulated. Tool does not require grounding.
	Caution - note important operating instructions.
	CAUTION Risk of electric shock.
	Please read the instructions carefully before starting the machine.
	Class III protection
	Do not dispose in household rubbish
	Regulatory Compliance Mark (RCM). This product meets applicable regulatory requirements.

SPECIFICATIONS

Adaptor	YLS0335A-T140230
Input AC Volts.....	100-240V
Input AC Amps.....	1A
Cat. No.	M12 RCDAB+
Input DC Volts.....	14V DC
Input DC Amps.....	3 A
Output DC Volts.....	12V DC
Output DC Amps.....	1.0 A
USB Output Volts.....	5V DC
USB Output Amps.....	2.1A max
Battery Type.....	M12™
Recommended Operating Temperature *	
Battery and Charger.....	5°C to 40°C (40°F to 104°F)
Battery and Tool.....	-10°C to 40°C (14°F to 104°F)

FUNCTIONAL DESCRIPTION



* Charger Indicators

When a battery pack is inserted into the charger, the LEDs will indicate the following:

- Continuous red: Charging
- Continuous green light: Charging is complete
- Flashing red: Battery is too hot/cold
- Flashing green: Charging will begin when battery reaches correct charging temperature
- Flashing red/green: Damaged or faulty battery pack

RADIO ASSEMBLY

⚠WARNING Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with your charger and battery.

Power

The **MILWAUKEE® M12™** Radio + Charger with DAB+ can be powered by **MILWAUKEE® M12™** Li-Ion battery packs or the supplied 14V adaptor. When connected to the supplied adaptor plugged into a 230-240V socket outlet, the battery bay can charge **MILWAUKEE® M12™** Li-Ion battery packs (see Charger Operation).

Inserting/Removing Battery Pack

1. To **insert** the battery pack, slide it into the battery bay.
2. To **remove** the battery pack, pull the battery pack out of the bay.

Low Battery Indicator

When the radio is powered by a battery pack and its charge falls below 10%, the low battery indicator  is displayed.

Battery Pack Protection

To protect the life of the battery pack, the radio will shut off when the battery's charge becomes too low. If this happens, plug Radio + Charger into the supplied adaptor and connect to a 230-240V socket outlet and charge the battery pack according to Charger Operation.

USB Power Outlet

This outlet can be used to charge a cell phone, power an MP3 player or any other device that uses less than 2.1A of DC electrical current.

NOTE: Any device that uses more than 2.1A of DC electrical current will trip a self-resetting overload and disable the output.

RADIO OPERATION

⚠WARNING Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this radio. Others may be hazardous. To reduce the risk of fire or electric shock, do not expose this radio to rain or moisture.

① Turning On/Off and Controlling Volume

Connect the Radio + Charger to the supplied adaptor and connect to a 230-240V socket outlet or install a battery pack.

Press and hold the On/Off button ① until the radio turns ON or OFF. LCD illuminates, and begins in same mode as when device was powered off. To display the time, press the CLOCK button. Volume is restored to the last setting.

NOTE: When the Radio + Charger is running on battery power, the display will dim after 5 minutes to reduce power use.

Use the Volume up and down buttons to increase or decrease the volume.

Getting Started

When Radio + Charger is first powered up, it will enter DAB+ mode and automatically scan for stations. It will then set the time and start playing the first station it finds.

If there is no signal available, the Time setting function can be accessed in the clock menu after pressing the CLOCK button.

Setting the Clock

1. Press and hold the CLOCK button until CLOCK SYNCHRO appears.
2. Use the ◀ and ▶ buttons to choose ENABLE or DISABLE.
3. Press the CLOCK button to confirm selection.
4. When choosing ENABLE (to automatically synchronise clock through digital radio):
 - a. Press the CLOCK button so that hour begins to flash.
 - b. Press the CLOCK button a second time so that the minutes begin to flash.
 - c. Press the CLOCK button a third time which will automatically set the clock to current local time.
5. When choosing DISABLE (to manually adjust the clock):
 - a. Press the CLOCK button so that hour begins to flash and use the ◀ and ▶ buttons to change the hour.
 - b. Press the CLOCK button so that the minutes begin to flash and use the ◀ and ▶ buttons to change the minutes.
 - c. Press the CLOCK button again to save the time.

EQ Adjustment

Press and hold the MODE button to enter tuning mode. Use the ◀ and ▶ buttons or ◀| and |▶ buttons to adjust Treble, and then Bass.

Selecting Band

Push the MODE button to select DAB+, FM or AM.

Tuning and Seeking

Press the ◀ and ▶ buttons to move up and down the band. Press, hold, and release the ◀ and ▶ buttons to SEEK through the band. When a station is found, the SEEK will stop.

Digital Radio (DAB+)

To choose a station, use the ◀ and ▶ buttons to choose station. To remove invalid stations, indicated in the stations list with a "?" in front of the station name:

1. Press and hold the MENU button.
2. Use the ◀ and ▶ buttons until PRUNE appears on the display.
3. Use the ◀ and ▶ buttons to choose YES.

PRESET Stations

To **set** the PRESET stations:

1. Tune to desired station.
2. Press and hold the PRESET button until AUTO-SCAN appears.
3. Use the ◀ and ▶ buttons to select STORE TO PRESET and press PRESET to select this option. Use the ◀ and ▶ buttons to select the PRESET location.
4. Press the PRESET button to save the location. To **tune** to a PRESET station: Press and release the PRESET button to step through the PRESET stations.

✱ Using Bluetooth

To enter the Bluetooth mode, press the ✱ button.

Using the Stereo AUX Jack

1. Plug the auxiliary device into the Stereo AUX jack.
2. Use the MODE button to select AUX.
3. Start the auxiliary device.

Pairing

- If no Bluetooth device is connected, Bluetooth pairing will begin automatically and the ✱ icon will flash on the display.
- The radio will continue to search for a signal for 3 minutes.
- While the ✱ is flashing, select "M12 Radio + Charger" on the Bluetooth capable device.
- Once the device has successfully paired with the radio, the ✱ will be shown on the radio's display.

Connecting

To enter the Bluetooth mode, press the ✱ button. When the radio locates a paired Bluetooth device, the ✱ will stop flashing. If connection is lost between the radio and the Bluetooth device, the radio will try to reconnect automatically for up to 3 minutes.

Controlling

When streaming music through to the radio via a Bluetooth device, use the ►|| button to play or pause the track currently playing. Use the ◀ and ▶ to move through the tracks.

CHARGER OPERATION

⚠WARNING Charge only **MILWAUKEE® M12™** Lithium-Ion battery packs in the **MILWAUKEE® Li-Ion Battery Charger**. Other types of batteries may cause personal injury and damage. Battery pack and charger are not compatible with V™-technology or NiCd systems.

When to Charge **MILWAUKEE®** Li-Ion Battery Packs

Remove the battery pack from the tool for charging when convenient for you and your job. **MILWAUKEE®** batteries do not develop a "memory" when charged after only a partial discharge. It is not necessary to run down the battery pack before placing it on the charger.

- Use the screen battery indicator to determine when to charge your **MILWAUKEE®** Li-Ion battery pack.
- You can "Top-Off" your battery pack's charge before starting a big job or long day of use.

How to Charge the Battery Pack

Plug the Radio + Charger into the supplied adaptor and connect to a 230-240V socket outlet. The battery packs will not charge if the Radio + Charger is not connected to 230-240V via the supplied adaptor. Place the battery pack into the bay by sliding the pack into the bay. The red light will turn on, either flashing (pack is too hot or cold) or continuous (pack is charging).

- A fully discharged battery pack with an internal temperature in the normal range will charge in about 30 to 185 minutes, depending on the battery pack.
- Heavily cycled batteries may take longer to charge completely.
- After charging is complete, the continuous green light will turn on.
- The charger will keep the battery pack fully charged if it is left on the charger.

- If the light indicator flashes red and green, check that the battery pack is fully seated into the bay. Remove the pack and reinsert. If the problem persists, contact a **MILWAUKEE®** service facility.
- If the light indicator does not come on, check that the battery pack is fully seated into the bay, and that the Radio + Charger is correctly connected to the supplied adaptor. Remove the pack and reinsert. If the light indicator still does not come on, contact a **MILWAUKEE®** service facility.

Charging a Hot or Cold Battery Pack

The Red Flashing Indicator light on the Radio + Charger indicates that the battery pack temperature is outside the charging range. Once the battery pack is within the acceptable range, normal charging will take place and the red light will be continuous. Hot or cold batteries may take longer to charge.

Li-Ion Charging Status

Battery Pack Temperature	Red Charger Indicator Light	Charging Status
Too Hot	Fast Flashing	Not charging
Normal Range	Continuous	Normal charging
Too Cold	Fast Flashing	Not charging

MAINTENANCE

⚠WARNING To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance. Never disassemble the tool, battery pack or charger. Contact a **MILWAUKEE®** service facility for ALL repairs.

Maintenance and Storage

Store your charger in a cool, dry place. As a general practice, it is best to unplug battery chargers and remove battery packs when not in use. No battery pack damage will occur, however, if the charger and battery pack are left plugged in.

Changing Back-up Batteries

⚠WARNING Batteries may leak chemicals or may explode if used incorrectly. The following care should be taken to prevent such an incident:

- Make sure the positive (+) and negative (-) battery terminals are positioned correctly.
 - Do not mix new and old batteries together, or mix different types of batteries.
 - Do not try to recharge non-rechargeable batteries.
- If chemicals from the batteries come in contact with your skin, wash them off immediately with water. If chemicals leak onto the radio, clean the radio completely.

⚠WARNING Choking hazard. Keep batteries away from children.

To hold station presets and clock time when the battery pack is removed and the radio is unplugged, (2) AAA batteries are required.

1. Remove battery pack and unplug radio.
2. Remove the screw and battery cover located near the battery bay.
3. Insert two (2) AAA batteries according to matching positive (+) and negative (-) marks.
4. Replace the battery cover and screw.
5. Always dispose of used batteries properly.

⚠WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or products containing bleach, etc., can cause a short circuit.

Cleaning

Clean out dust and debris from charger vents and electrical contacts by blowing with compressed air. Use only mild soap and a damp cloth to clean the battery pack and charger, keeping away from all electrical contacts. Certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around battery packs, charger, or tools.

Repairs

For repairs, return the tool, battery pack and charger to the nearest service centre.

ADDITIONAL BATTERY SAFETY RULES

⚠WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.

⚠WARNING Do not charge non-rechargeable batteries.

- 1) Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- 2) Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- 3) A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

WARRANTY - AUSTRALIA and NEW ZEALAND

Please refer to Australian and New Zealand warranty supplied with tool. This warranty applies only to product sold by authorised dealers in Australia and New Zealand.

SERVICE - AUSTRALIA and NEW ZEALAND

MILWAUKEE® prides itself in producing a premium quality product that is Nothing But Heavy Duty™. Your satisfaction with our products is very important to us! If you encounter any problems with the operation of this tool, please contact your authorised **MILWAUKEE®** dealer.

For a list of **MILWAUKEE®** dealers, guarantee or service agents please contact **MILWAUKEE®** Customer Service or visit our website.

(Australia Toll Free Telephone Number 1300 645 928)

(New Zealand Toll Free Telephone Number 0800 645 928)

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