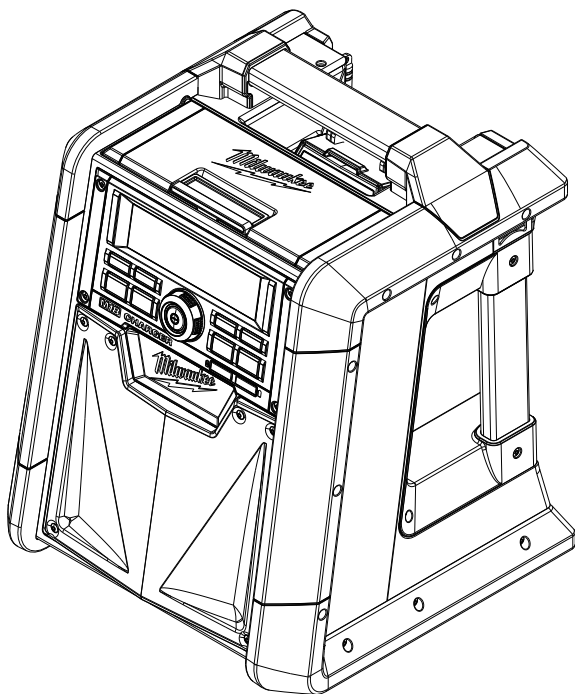




OPERATOR'S MANUAL



Cat. No.
2792-20

M18™ RADIO + CHARGER



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

IMPORTANT SAFETY INSTRUCTIONS

RADIO SAFETY

⚠WARNING

- 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 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) **⚠WARNING** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 16) Only plug power supply into readily accessible outlet to allow the appliance to be unplugged quickly.
- 17) Only operate this apparatus in a well-ventilated area.
- 18) A battery operated radio with integral batteries or 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.
- 19) Use battery operated radio only with specifically designated battery packs. Use of any other batteries may create a risk of fire.
- 20) 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.
- 21) Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.

- 22) Do not use any adaptor plugs.
- 23) When operating a radio outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.
- 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, 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 free replacement.
- 27) This radio + charger is designed to be powered by a standard 120 volt AC line or AC generator. The radio can also be powered using a MILWAUKEE M18™ Li-Ion battery pack. Radio + charger must be plugged into an appropriate receptacle. Do not attempt to use with any other voltage or power supply.

CHARGER SAFETY

- 28) **SAVE THESE INSTRUCTIONS** - THIS OPERATOR'S MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS FOR MILWAUKEE LI-ION M18™ RADIO + CHARGER.
- 29) **BEFORE USING, READ THIS OPERATOR'S MANUAL, YOUR BATTERY PACK OPERATOR'S MANUAL, AND ALL LABELS ON THE BATTERY PACK AND RADIO + CHARGER.**
- 30) **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 V™-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.
- 31) **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.
- 32) **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.
- 33) **MAINTAIN CHARGER CORD.** When unplugging charger, pull plug rather than cord to reduce the risk of damage to the electrical plug and cord. Never carry charger by its cord. Keep cord from heat, oil and sharp edges. Make sure cord will not be stepped on, tripped over or subjected to damage or stress. Do not use charger with damaged cord or plug. Have a damaged charger replaced immediately.
- 34) **DO NOT SHORT CIRCUIT.** 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. Do not allow fluids to flow into battery pack. Corrosive or conductive fluids, such as seawater, certain industrial chemi-

icals, and bleach or bleach containing products, etc., can cause a short circuit. A short circuited battery pack may cause fire, personal injury, and product damage.

- 35) **DO NOT USE AN EXTENSION CORD UNLESS IT IS ABSOLUTELY NECESSARY.** Using the wrong, damaged or improperly wired extension cord could result in the risk of fire and electrical shock. If an extension cord must be used, plug the charger into a properly wired 16 gauge or larger extension cord with pins that are the same number, size and shape as the pins on the charger. Make sure that the extension cord is in good electrical condition.
- 36) **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.
- 37) **UNPLUG CHARGER** when not in use. Remove battery packs from unplugged chargers.
- 38) **TO REDUCE THE RISK OF ELECTRIC SHOCK,** always unplug charger before cleaning or maintenance. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.
- 39) **STORE YOUR BATTERY PACK AND CHARGER** in a cool, dry place. Do not store battery pack where temperatures may exceed 120°F (50°C) such as in direct sunlight, a vehicle or metal building during the summer.

Federal Communications Commission

FC **WARNING** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

SPECIFICATIONS

Cat. No.	2792-20
Input Volts.....	120 AC
Input Amps.....	2.1 AC
Output Volts.....	18 DC
Output Amps.....	3.5 DC
Battery Type.....	M18™
Charger Type.....	M18™
Operating Temperature	
Battery and Charger ..	32°F to 150°F (0°C to 65°C)
Battery and Tool.....	0°F to 167°F (-18°C to 75°C)

EXTENSION CORDS

Double insulated tools can use either a two or three wire extension cord. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. Refer to the table shown to determine the required minimum wire size.

The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. When using more than one extension cord to make up the total length, be sure each cord contains at least the minimum wire size required. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum wire size.

Guidelines for Using Extension Cords











- If you are using an extension cord outdoors, be sure it is marked with the suffix "W-A" ("W" in Canada) to indicate that it is acceptable for outdoor use.
- Be sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.
- Protect your extension cords from sharp objects, excessive heat and damp or wet areas.
- Unplug all cords during lightning storms or when unused for long periods of time.

Recommended Minimum Wire Gauge For Extension Cords*

Nameplate Amps	Extension Cord Length				
	25'	50'	75'	100'	150'
0 - 2.0	18	18	18	18	16
2.1 - 3.4	18	18	18	16	14
3.5 - 5.0	18	18	16	14	12
5.1 - 7.0	18	16	14	12	12
7.1 - 12.0	16	14	12	10	--
12.1 - 16.0	14	12	10	--	--
16.1 - 20.0	12	10	--	--	--

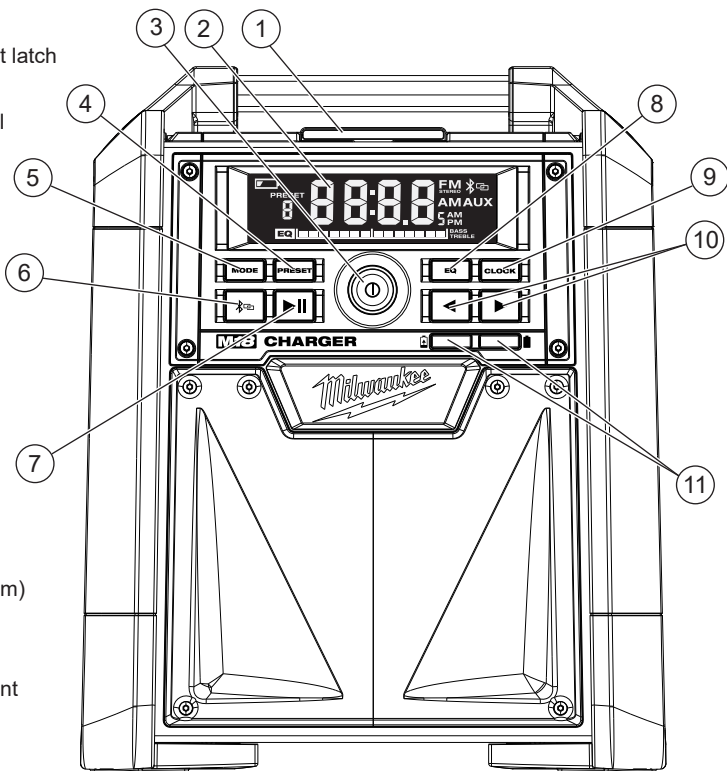
* Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

SYMBOLGY

	Volts
	Direct Current
	Alternating Current
	Amps
	Hertz
	Double Insulated
	Presence of Important Operating Instructions
	CAUTION Risk of Electric Shock
	Federal Communications Commission
	UL Listing for Canada and U.S.





FUNCTIONAL DESCRIPTION

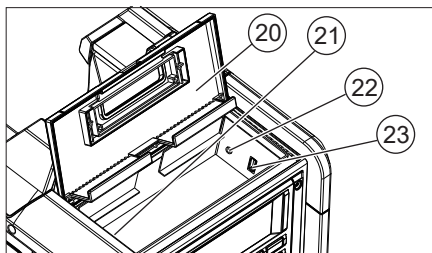
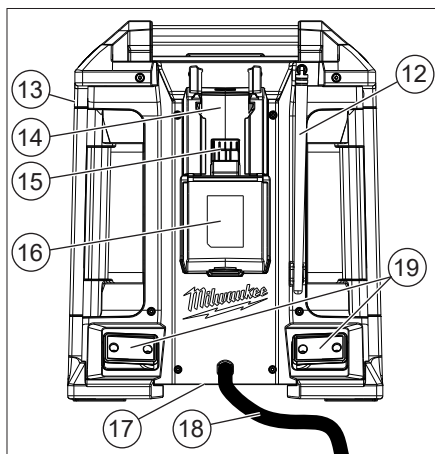
1. Auxiliary compartment latch
2. Display
3. On/Off/Volume control
4. PRESET button
5. MODE button
6. Bluetooth button
7. Play/Pause button
8. EQ button
9. CLOCK button
10. Seek/adjust buttons
11. Charger indicators*
12. Antenna
13. Bottle opener
14. Battery bay
15. Charging contacts
16. Battery bay cover
17. Nameplate (on bottom)
18. Cord
19. Cord wrap
20. Auxiliary compartment
21. Backup-battery compartment (not shown)
22. Stereo AUX jack
23. USB power outlet



* 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
Charging will begin when battery reaches correct charging temperature
-  Flashing red/green: Damaged or faulty battery pack



GROUNDING

Double Insulated Radios: Radios with Two Prong Plugs

Radios marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association and the National Electrical Code. Double Insulated radios may be used in either of the 120 volt outlets shown in Figures A and B.

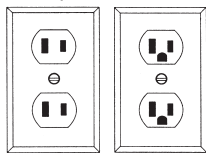


Fig. A Fig. B

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 M18™ Radio + Charger can be powered by MILWAUKEE M18™ Li-Ion battery packs or a standard wall outlet. When plugged into a wall outlet, the battery bay will charge MILWAUKEE M18™ Li-Ion battery packs (see Charger Operation).

Inserting/Removing Battery Pack

1. Open the battery bay cover.
2. To **insert** the battery pack, slide it into the battery bay.
3. To **remove** the battery pack, pull the battery pack off of the bay.
4. Always close the battery bay cover when the bay is not in use.

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 a 120V outlet and charge the battery pack according to Charger Operation.

Installing an Auxiliary Device

Open the auxiliary compartment to connect an MP3 player, CD player, or other audio device using the stereo auxiliary jack. Small devices can be stored in the compartment during use.

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 2.1 A of DC electrical current will trip a self-resetting overload and disable the output.

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.

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.
3. Insert two (2) AAA batteries according to matching positive (+) and negative (-) marks.
4. Replace the battery cover and screw.

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

Plug the cord into an appropriate AC outlet or install a battery pack.

Press the On/Off/Volume control button ① to turn the radio on and off. The radio station (frequency) is displayed. 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.

Rotate the On/Off/Volume control button ① to increase or decrease the volume.

Setting the Clock

1. Press and hold the CLOCK button until the hour begins to flash.
2. Use the ◀ and ▶ buttons to change the hour.
3. Press the CLOCK button again. The minutes will begin to flash. Use the ◀ and ▶ buttons to change the minutes.
4. Press the CLOCK button again to save.

EQ Adjustment

To manually adjust the Bass/Treble sound, press the EQ button. Set the bass sound by rotating the On/Off/Volume control button ①. Press the EQ button again to set the treble sound by rotating the On/Off/Volume control button ①.

Selecting Band

Push the MODE button to select Bluetooth, FM, AM, or AUX.

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.

PRESET Stations

To **set** the PRESET stations:

1. Tune to desired station.
2. Press and hold the PRESET button until the PRESET indicator on the display begins to flash.
3. Use the ◀ and ▶ buttons to select the PRESET location for the station. Five locations (1-5) are available.
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 the Stereo AUX Jack

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



✳ Using Bluetooth

To enter the Bluetooth mode, press the  button, or press the MODE button to cycle through to Bluetooth.




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.
- To manually pair a device, press and hold bluetooth button until the  begins to flash.
- While the  is flashing, select "Milwaukee" on the Bluetooth capable device.
- Enter PIN "0000".
- 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, or press the MODE button to cycle through to Bluetooth. When the radio locates a paired Bluetooth device, the  will be shown on the radio's display. 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 start and pause the music. Use the  and  to move through the tracks.

CHARGER OPERATION

⚠WARNING Charge only MILWAUKEE M18™ 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 Fuel Gauge 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.
 - The only time it is necessary to charge the MILWAUKEE Li-Ion battery pack is when the battery pack has reached the end of its charge. To signal the end of charge, power to the tool will drop quickly, allowing you just enough power to finish making a cut, drilling a hole, or driving a fastener. Charge the battery pack as needed.

How to Charge the Battery Pack

Plug the Radio + Charger into a 120V outlet. The battery packs will not charge if the Radio + Charger is not plugged in. Place the battery pack onto the bay by sliding the pack on from the top of the bay. The red light will turn on, either flashing (pack is too hot or cold) or continuous (pack is charging).

- A fully discharged pack with an internal temperature between 32°F and 104°F will charge in 30 to 185 minutes, depending on the battery pack.
- Heavily cycled batteries may take longer to charge completely.
- The Fuel Gauge lights on the battery pack are displayed as the pack is being charged, indicating how fully charged the pack is.
- After charging is complete, the continuous green light will turn on and the fuel gauge will turn off.
- 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. 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 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.

⚠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.