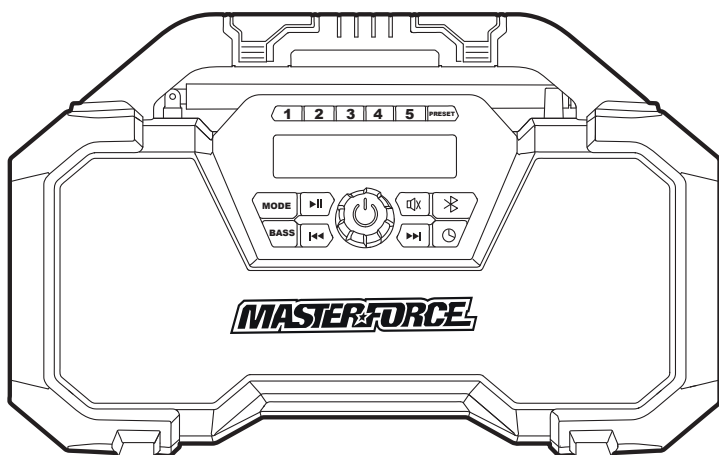


MASTERFORCE®

20V RADIO



241-0346

OPERATOR'S MANUAL

⚠ CAUTION: To Reduce the Risk of Injury, User Must Read and Understand Operator's Manual. Save These Instructions For Future Reference.










For questions / comments, technical assistance or repair parts –
Please Call Toll Free: 1-866-917-4374. (M-F 8:30am-5:00pm Est.)

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SAFETY SYMBOLS


Some of these following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.

Symbol	Designation / Explanation
V	Volts
A	Amps
Hz	Hertz
W	Watts
lbs	Pounds
~ or a.c.	Alternating current
≡ or d.c.	Direct current
	Double insulation
IP64	Ingress protection grade
 A	USB-A charging port
 C	Type-C charging port
	The output plug is with positive center pole and negative outer pole.
	Bluetooth®
	Only for indoor use
	Caution / Warning / Danger
	To reduce the risk of injury, user must read instruction manual.
	This symbol designates that this tool is listed by the Intertek Testing Services, to United States and Canadian Standards.


⚠ WARNING: To ensure safety and reliability, all repairs should be performed by a qualified service technician.


SAFETY INSTRUCTIONS


The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and the explanations with them, deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

 **WARNING:** Be sure to read and understand all safety instructions in this manual, including all safety alert symbols such as “DANGER,” “WARNING,” and “CAUTION” before using this tool. Failure to following all instructions listed below may result in electric shock, fire, and/or serious personal injury.

SYMBOL MEANING

 **SAFETY ALERT SYMBOL:** Indicates DANGER, WARNING, or CAUTION. May be used in conjunction with other symbols or pictographs.

 **DANGER:** Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

 **WARNING:** Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

 **CAUTION:** Indicates a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury.

NOTICE: (Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SAVE THESE INSTRUCTIONS!


IC WARNINGS

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1) L'appareil ne doit pas produire de brouillage; 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

SAFETY INSTRUCTIONS

GENERAL PRODUCT SAFETY WARNINGS

 **WARNING:** Read all safety warnings, instructions, illustrations and specifications provided with this apparatus. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.


SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

1. This apparatus is not suitable for use in locations where children are likely to be present.
 2. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not use this apparatus near water. Dry location use only.
 3. Only operate this apparatus in a well-ventilated area.
 4. Clean only with dry cloth.
 5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
 6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 7. Only use attachments/accessories specified by the manufacturer.
 8. Detach the battery pack from the apparatus during lightning storms or when unused for long periods of time.
 9. 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.
- Service or maintenance performed by unqualified personnel could result in a risk of injury.
10. A battery operated apparatus 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.
 11. Never disassemble the apparatus or try to do any rewiring on the apparatus's electrical system.
 12. Maintain the apparatus. Check for misalignment, breakage of parts and any other condition that may affect the apparatus operation. If damaged, have the apparatus repaired before use. Use the apparatus in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the apparatus for operations different from those intended could result in a hazardous situation.
 13. Keep the apparatus away from other metal objects, such as paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the terminals together may cause burns or a fire.
 14. Do not use the apparatus if it has been dropped or received a sharp blow. A damaged apparatus will increase the risk of fire.
 15. Use only with the MASTERFORCE® 20V battery packs. Use of any other battery packs may create a risk of injury and fire.

SAFETY INSTRUCTIONS

Battery pack	Charger
252-8029 (1.5Ah)	
252-8031 (2.0Ah)	
252-8030 (2.5Ah)	
252-8003 (2.5Ah)	252-8025
252-8034 (4.0Ah)	252-8037
252-8013 (4.0Ah)	252-8026
252-8035 (5.0Ah)	252-8043
252-8005 (5.0Ah)	
252-8007 (7.5Ah)	

16. For best results, your battery and tool should be stored, charged and used in a location where the temperature is more than 5°C (41°F) but less than 40°C (104°F). Do not store outside or in vehicles.

 DANGER: People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

17. Save these instructions. Refer to them frequently and use them to instruct others who may use this product. If you loan someone this product, loan them these instructions also.

FCC CAUTION

The manufacturer is not responsible for radio interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment. 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.

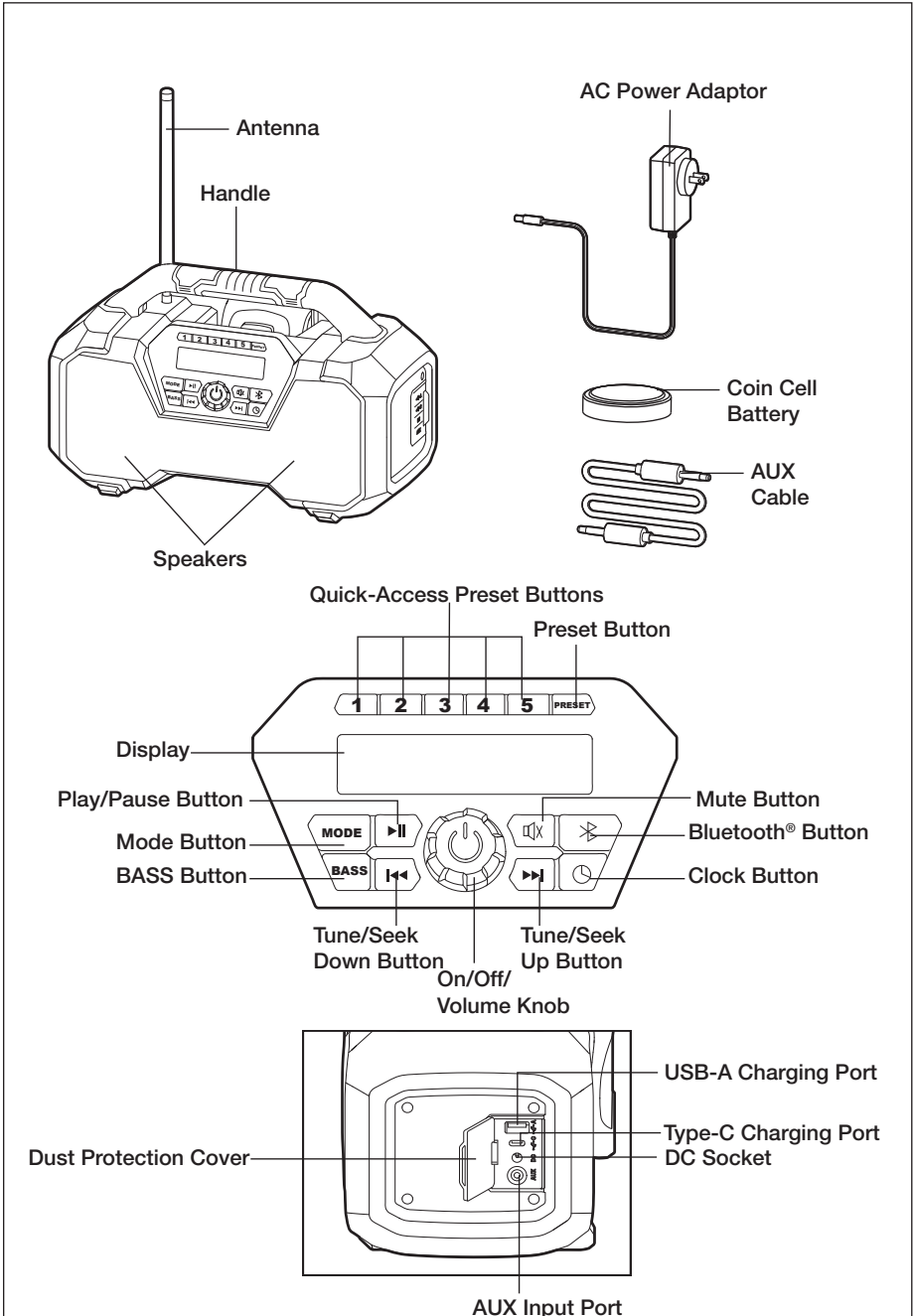
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate 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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

OVERVIEW



SPECIFICATIONS

Rated AC Input for Power Adaptor	100-240V~ 50-60Hz, 0.7A
Rated Output for Power Adaptor	18V d.c., 1.2A
Rated DC Input	20V d.c.
Speaker Power	10W x 2
USB-A Charging Port	5 V d.c., Max. 1 A
Type-C Charging Port	5 V d.c., Max. 2.1 A
AUX Cable Plug	3.5 mm
Bluetooth® Range	Up to 100 ft. (30 m)
AM Range	530 – 1710 KHz
FM Range	87.5 – 108 MHz
Ingress Protection Grade	IP64*
Net Weight (without battery)	4 lbs. 10 oz. (2.1 Kg)

NOTE: Type-C is the same as USB-C, just with different description.

ASSEMBLY

⚠ WARNING: If any part is broken or missing, **DO NOT** attach the battery pack or operate the device until the broken or missing part is replaced. Failure to do so could result in possible serious injury.

⚠ WARNING: Do not attempt to modify this device or create accessories not recommended for use with this device. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury.

UNPACKING

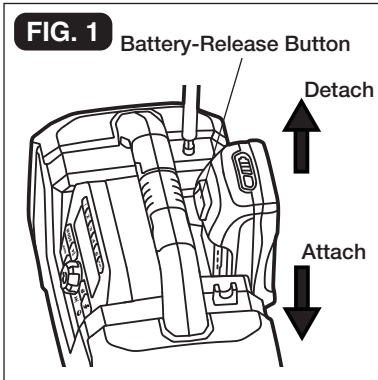
1. Carefully remove the device and any accessories from the carton. Make sure that all items listed in the packing list are included.
2. Inspect the device carefully to make sure that no breakage or damage occurred during shipping.
3. Do not discard the packing material until you have carefully inspected and satisfactorily operated the device.

CONTENTS

- Radio
- AC power adaptor
- AUX cable
- Coin cell battery

OPERATION

ATTACHING BATTERY PACK (FIG. 1)



CAUTION: Always switch off the unit before removing the battery pack. Align the raised rib on the battery pack with the grooves in the unit, and then slide the battery pack onto the unit.

NOTICE: When placing the battery pack onto the unit, be sure that the raised rib on the battery pack aligns with the groove inside the unit and that the latches snap into place properly. Improper attachment of the battery pack can cause damage to internal components.

DETACHING BATTERY PACK (FIG. 1)

Depress the battery-release button to release the battery pack. Pull the battery pack out and remove it from the unit.

INSTALLING COIN CELL BATTERY (FIG. 2)

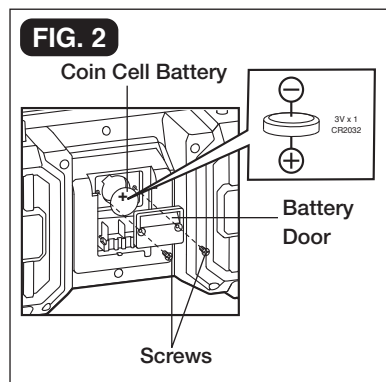
WARNING: Danger of explosion if battery is incorrectly replaced. When replacing battery, replace it with the same or equivalent type CR2032. Observe correct polarity (+ and -) when replacing

batteries. Do not store or carry batteries in such a way that metal objects can contact exposed battery terminals.

Your unit is equipped with memory function in order to store the time and your preset radio stations. When the unit is in the OFF position, this memory function is powered by one coin cell battery that is included with the unit.

1. Loosen the two screws on the battery door counterclockwise with a Philips screwdriver (not included) to remove the screws and the battery door.
2. Install the coin cell battery observing the correct polarity.
3. Replace the battery door, insert the screws and tighten it clockwise.

DANGER: Do not ingest battery. Chemical burn hazard. This product contains a coin cell battery. If the coin 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 you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.



OPERATION

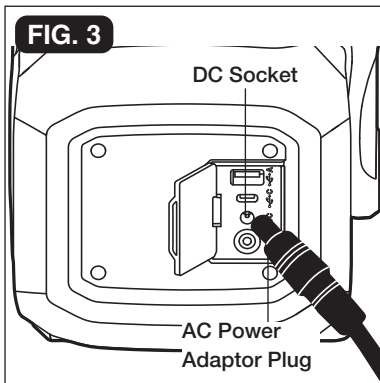
USING INCLUDED AC POWER ADAPTOR (FIG. 3)

Open the dust protection cover on the right side of the radio, insert the AC power adaptor plug into the DC socket.

Plug the adaptor into a standard power outlet. Whenever the adaptor is used, the battery pack is automatically disconnected. The AC power adaptor should be disconnected from the power outlet when not in use.

NOTE: The battery pack cannot be charged by using the power adaptor. The battery pack can only be charged using chargers specified earlier in this manual.

After using AC power adaptor, replace the dust protection cover to protect the DC socket against dust, dirt, or moisture.



POSITIONABLE FLEXIBLE ANTENNA

To decrease interference or static noise, rotate the antenna or move the unit to a higher elevation. The antenna folds down and out of the way when not in use.


INTENDED USE

This unit is intended:


- for reception and playback of AM and FM radio stations,
- for auxiliary (AUX) audio playback from other audio devices such as cell phones, MP3 players, CD players etc.,
- for audio playback via Bluetooth® from compatible devices such as cell phones,
- for charging portable devices via USB-A or Type-C charging ports when the unit is connected to included AC power adaptor or installed battery pack.

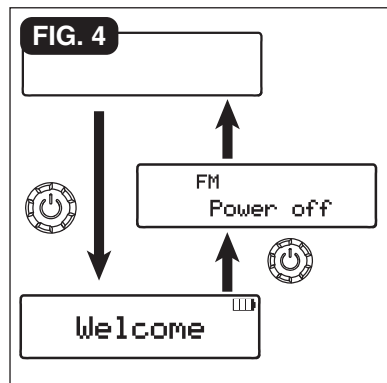
ON / OFF SWITCH (FIG. 4)

Switching on:

Briefly press the On/Off/Volume knob  and the unit switches on. The display will show "Welcome" and after 1 second will shift to operation mode.


Switching off:

Press the On/Off/ Volume knob  and hold for 2 seconds. The display will show "Power off" and the unit will turn off within a second.




OPERATION

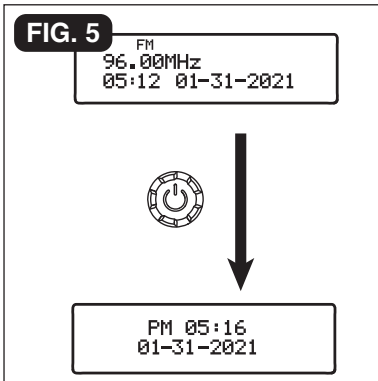
STANDBY MODE (FIG. 5)

When the unit is switched on, briefly press the On/Off/Volume knob , the unit switches to standby mode.


When the unit is in standby mode, all audio output will stop. Only the display will continue showing the time and date, but the display brightness will dim after 30 seconds.

Briefly press the On/Off/Volume knob  to return to full operating mode.


NOTICE: When in standby mode, the unit will turn off automatically after 1 hour of inactivity. When the unit is in standby mode, the USB charging ports can still be used to charge portable devices.




SETTING THE TIME

In any operating mode, press the CLOCK button  for 2 seconds to set the time. The numbers blink in this order: hour>minute>month>date>year.



Press the  or  button or rotate the On/Off/Volume knob  to change each value.

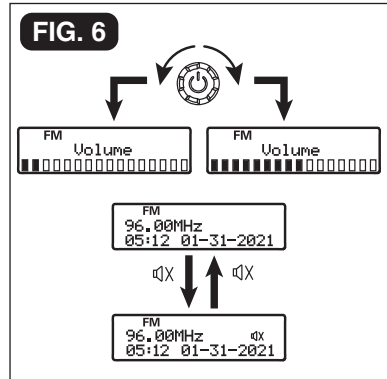
Press the  button to switch to the next setting.

To save the time settings press the  button again. If you don't press it again and don't press any other button for 10 seconds, the procedure is interrupted and the changes you have made are discarded.

SETTING THE VOLUME (FIG. 6)

To increase the volume, rotate the On/Off/Volume knob clockwise. To decrease it, turn the knob counterclockwise.

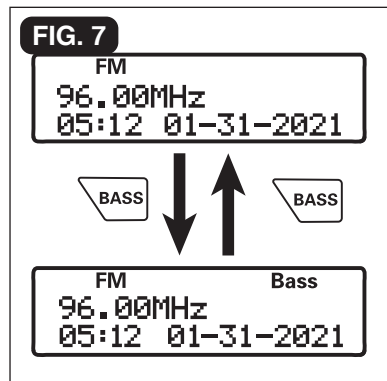
Briefly press the  button to mute the sound. Briefly press  the button again or rotate the On/Off/Volume knob to unmute the sound.



BASS BOOST (FIG. 7)

The low frequency (bass) boost can be turned on or off:

Briefly press the BASS button. When the bass boost function is on, the Bass symbol lights up.



OPERATION

SELECTING THE OPERATING MODE (FIG. 8)

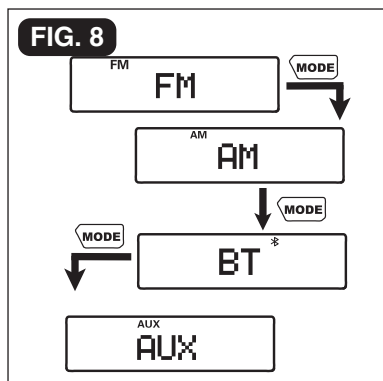
To select the operating mode, briefly press the MODE button several times until the desired mode is displayed.

The following operating modes are available:

- FM Radio reception
- AM Radio reception
- Playback of audio content via Bluetooth®
- Playback of audio content via AUX cable

The modes switch in the following order
FM → AM → BT → AUX .

The active operating mode is shown by a corresponding symbol on the top of the display (FM, AM, etc.)



BLUETOOTH® OPERATING MODE (FIG. 9)

Activate the Bluetooth® operating mode with the MODE button or press the Bluetooth® button . Activate the Bluetooth® function on the device to be connected (smartphone or similar) and select "MASTERFORCE RADIO" as the target of the Bluetooth® connection.

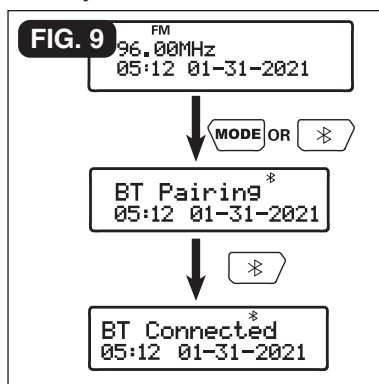
For this purpose, follow the instructions in the operating manual of the paired device (smartphone or similar).

Press the or button to change to previous or next song.

Press the button to pause or play.

NOTE: To disconnect (forget) the Bluetooth® device after successful pairing, press the button and hold for 2 seconds. The paired device will get disconnected.

When in Bluetooth® operating mode, the unit will turn off automatically after 1 hour of inactivity.



AUX OPERATING MODE (FIG. 10)

Select the AUX operating mode using the MODE button.

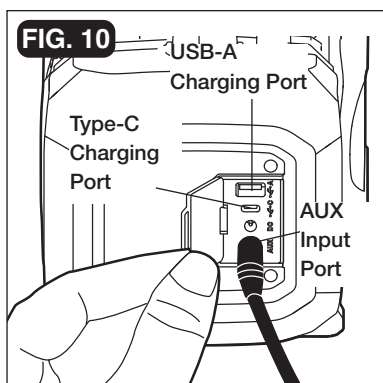
Open the dust protection cover and connect an external audio source (MP3 player or similar) to the AUX input port of the unit using the included AUX cable. Switch on the external audio source and start the playback.

Set the volume with the regulator for the connected audio device or the volume knob of the unit.

NOTE:

- Batteries of the connected devices cannot be charged via the AUX input port.
- When the unit is switched off, the connected devices are not switched off.
- After using the AUX input port, replace the dust protection cover to protect the port against dust, dirt, or moisture.

OPERATION



CHARGING EXTERNAL DEVICES VIA THE USB-A AND TYPE-C PORTS (FIG. 10)

When a battery pack is installed or the unit is connected to the AC power adaptor and the unit is turned on, the USB-A and Type-C charging ports will supply power for low power devices such as cell phones, MP3 players, etc. Immediately disconnect the devices after charging. Replace the dust protection cover to protect the ports from dust, dirt, and moisture.

NOTE: The USB-A and Type-C charging ports cannot be used for audio playback. Audio playback is only possible via Bluetooth® or AUX connection.

TUNING AM AND FM

The ◀◀ or ▶▶ buttons and the MODE button are used to tune to the desired radio frequency. The selected frequency is shown on the display.

Press the MODE button until AM or FM is highlighted.


Manual tuning: Briefly press the ◀◀ or ▶▶ button to set the desired frequency. Each press will increase or decrease the frequen-

cy by 0.1MHz for FM, 10kHz for AM. The frequency is shown on the display.

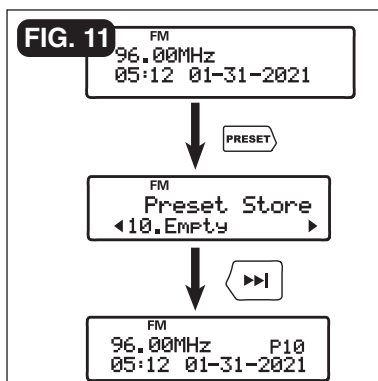
Scan tuning: Press the ◀◀ or ▶▶ button and hold for 2 seconds, the tuner frequency will increase to seek the first radio station with strong signal and stop at that station. The frequency is shown on the display. The right arrow button ▶▶ may be pressed for 2 seconds again to continue seeking a radio station at higher frequencies. The left arrow button ◀◀ may be pressed to seek radio stations at lower frequencies.

PROGRAMMING AM/FM STATIONS IN PRESET STORE


To program radio stations in preset store (FIG. 11)

- Tune to the desired radio station and press the **PRESET** button for 2 seconds to enter “Preset Store”
- Press the ◀◀ or ▶▶ button or rotate the knob  to select the programmed location, e.g., “10”
- Press the ▶▶ button to save it, “P10” is shown on the display.

NOTE: You can store up to 10 radio stations. If you select a programmed location that is already programmed, the station will be replaced by the station you are tuned to.



To recall the stored stations

- Press the **PRESET** button to enter “Preset Recall”
- Press the **◀◀** or **▶▶** button or rotate the knob  to find the desired programmed radio station, e.g., “P10”
- Press the **▶||** button to confirm. “P10” station will be played.

To store and recall stations in quick-access presets (FIG. 12).

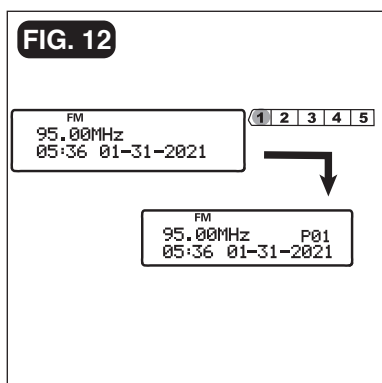
Additionally, the unit features five quick-access preset buttons (1 – 5) that allow user to quickly store and recall 5 stations in FM and 5 in AM wavebands.

NOTE: The memory presets P01, P02, P03, P04, and P05 are the same whether they were programmed using preset store or quick-access preset buttons.

To store the current radio station, press and hold the desired quick-access preset button (1-5) until the preset number is shown on the display. The station is then stored under the selected quick-access preset button.

Repeat this procedure for the remaining quick-access presets. Stations stored in the preset memory can be overwritten by following the procedures described above.

To recall stations from the preset memories, briefly press the desired quick-access preset button while the unit is in radio mode. The preset number and station frequency will appear on the display.




SYSTEM MENU SETTING

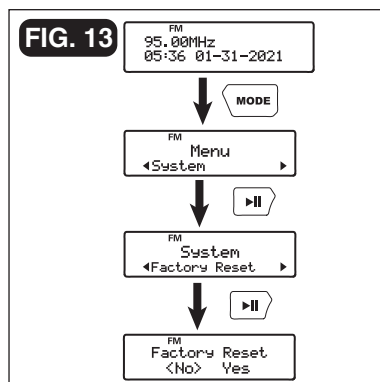
In any operating mode, press the **MODE** button and hold down for 2 seconds to enter System Menu. While in System Menu you can reset the unit to factory settings (Factory Reset). Or look up firmware version (SW Version).

Briefly press the **MODE** button to exit System Menu and return to the last active operating mode.

FACTORY RESET (FIG. 13)

If your radio fails to operate or some information on the display is missing or incomplete, carry out the following procedure:

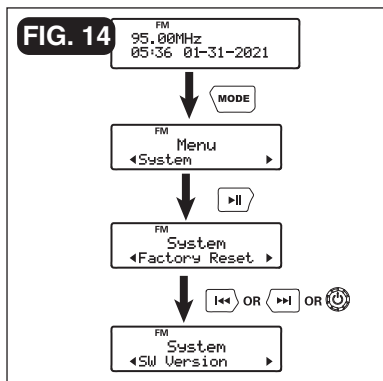
- Press and hold the **MODE** button down for 2 seconds to enter System Menu. “System” will appear on the display.
- Press the **▶||** button to see “Factory Reset” on the display.
- Press the **▶||** button to see “No” and “Yes” on the display.
- Press the **◀◀** or **▶▶** button or rotate knob  until the display shows bracket around <Yes>, then press the **▶||** button to confirm the setting. After selecting Factory Reset/Yes, your radio will reset and switch off automatically.



SW VERSION (FIG. 14)

The software display cannot be altered and is just for your reference.

- Press and hold the MODE button down for 2 seconds to enter System Menu. “System” will appear on the display.
- Press the ►|| button to see “Factory Reset” on the display.
- Press the ◀◀ or ▶▶ button or rotate knob to find “SW Version” on the display, then press the ►|| button. The software version will show on the display.



MAINTENANCE

⚠ WARNING: To avoid serious personal injury, always remove the battery pack from the radio when cleaning or performing any maintenance. Contact a qualified service technician for all repairs.

⚠ WARNING: When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage. For more information, call the toll-free helpline, at 1-866-917-4374.

⚠ WARNING: Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease, etc.

⚠ WARNING: Using compressed air may be the most effective cleaning method. Always wear safety goggles when cleaning tools with compressed air.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The unit does not work.	The battery pack charge is depleted.	Charge the battery pack.
The unit cannot properly pair with a Bluetooth® device.	Out of Bluetooth® pairing range.	Move your Bluetooth® device closer to the unit.
	Wrong steps performed during pairing process.	Refer to “BLUETOOTH® OPERATING MODE” chapter and properly pair the Bluetooth® device to the unit.
The unit lost clock memory and preset stations after the battery pack is removed.	The coin cell battery is depleted.	Replace the cell battery.



CORDLESS JOBSITE RADIO WARRANTY

90-DAY MONEY BACK GUARANTEE:

This MASTERFORCE® brand power tool carries our 90-DAY Money Back Guarantee. If you are not completely satisfied with your MASTERFORCE® brand power tool for any reason within ninety (90) days from the date of purchase, return the tool with your original receipt to any MENARDS® retail store, and we will provide you a refund – no questions asked.

3-YEAR LIMITED WARRANTY:

This MASTERFORCE® brand power tool carries our famous No Hassle 3-Year Limited Warranty to the original purchaser. If, during normal use, this MASTERFORCE® power tool breaks or fails due to a defect in material or workmanship within three (3) years from the date of original purchase, simply bring this tool with the original sales receipt back to your nearest MENARDS® retail store. At its discretion, MASTERFORCE® agrees to have the tool or any defective part(s) repaired or replaced with the same or similar MASTERFORCE® product or part free of charge, within the stated warranty period, when returned by the original purchaser with original sales receipt. Notwithstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but not limited to blades, brushes, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.

For questions / comments, technical assistance or repair parts – Please Call Toll Free at: 1-866-917-4374. (M-F 8:30am-5:00pm EST.)

**SAVE YOUR RECEIPTS
THIS WARRANTY IS VOID WITHOUT THEM**

MASTERFORCE[®]

MENARDS[®]