

M90

SERVICE MANUAL

MODEL

Mini M90

BLUETOOTH

MINI STEREO RADIO





SPECIAL THANKS TO:

Melvin Davis Sr and David Rivera of the Boombox Museum

Tim Schafer

Daniel Malakai Cabrera



PACKAGE CONTENTS:

- (1) MINI M90 Stereo Radio
- (1) Mini Cassette with Cassette Case
- (1) USB-C Cable

- (1) Service Manual
- (4) XL Tuner Knobs
- (1) Wired Remote

Left and Right Speakers: 3-inch speakers with 15 Watts per speaker (30W Total).

Radio Band: Indicates that the current radio station is being received in stereo. The Blue LED indicates that an FM Radiostation is playing.

Radio Tuning Knob: Adjust the Radio Frequency with this Tuning Knob.

Bass Control: Adjust the level of Bass with this Control Dial. Add the XL Tuner Knobs for better grip.

Treble Control: Adjust the level of Treble with this Control Dial. Add the XL Tuner Knobs for better grip.

Balance Control: Adjust the level of the sound coming from each speaker. Add the XL Tuner Knobs for better grip.

Volume Control: Adjust the overall volume coming from the M90. Note: in Bluetooth mode you can also adjust the volume with your connected device's volume controls.

Cassette Door: Holds the Mini Cassette.

Cassette Eject Button: Opens the Cassette Door to get to the Mini Cassette.

Microphone: Built in Microphone to talk into during Phone Calls. Note: requires a mobile phone device be connected to the M90 via Bluetooth.

Power Button: Turn the M90 MINI Stereo on and off.

Mode Button: Press this button to change between each input mode (Bluetooth, Radio, AUX/Line In).

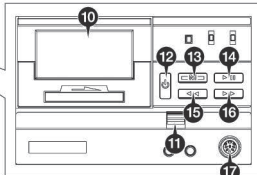
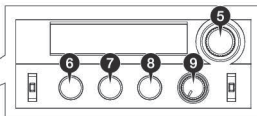
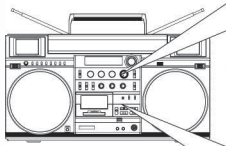
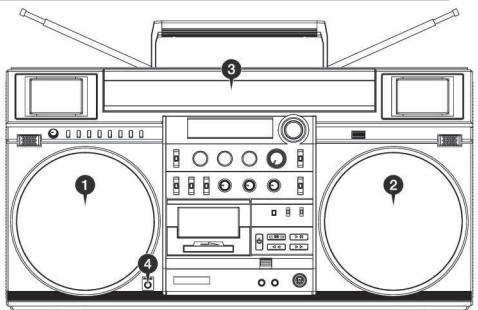
Play/Pause Button: Press to toggle between playing and pausing the audio.

Note: this does not play/pause Radio mode

Review Button: When in Bluetooth or Media input mode, use this button to go back to the start of the current song or to the previous audio track if you are already at the start.

Cue Button: Go forward to the next audio track.

Remote Input Jack: Mini Remote Plugs into this input jack,



PARTS LIST:

- | | |
|----------------------|---------------------------|
| 1. Left Speaker | 10. Cassette Door |
| 2. Right Speaker | 11. Cassette Eject Button |
| 3. Radio Band | 12. Power Button |
| 4. Microphone | 13. Mode Button |
| 5. Radio Tuning Knob | 14. Play/Pause Button |
| 6. Bass Control | 15. Review Button |
| 7. Treble Control | 16. Cue Button |
| 8. Balance Control | 17. Remote Input Jack |
| 9. Volume Control | |

Telescopic Antennas: Extendable Antenna that helps with Radio Signal.

Handle: Handle to carry the M90 Mini.

AUX Input Jack: use a 3.5mm AUX cable to connect AUX input device such as a MP3 player.

LED Indicator: In Bluetooth mode, this indicator blinks Blue when the M90 is available for pairing with a local device, solid blue when successfully paired. (Also when SD card reader, USB A, or 3.5mm are activated)

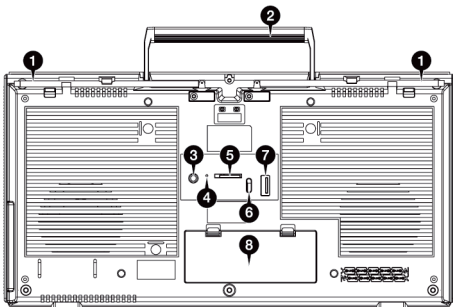
The LED will be Red when the battery is charging, green when fully charged.

Micro SD Card Reader: Insert Micro SD Cards in this slot to play audio tracks on the card.

USB-C Port: Charging port for the M90 Mini.

USB-A Port: Use this multi-function port to play audio tracks from USB Flash drives, and to charge USB compatible devices.

Storage Compartment: Store your accessories in this compartment.



PARTS LIST:

1. Telescopic Antennas
2. Handle
3. AUX Input Jack
4. LED Indicator
5. Micro SD Card Reader
6. USB-C Input Port
7. USB-A Input/Output Port
8. Cable Compartment

Remote Cable: Plug in the Mini Remote into the Remote with this cable.

Power Button: Turns the M90 Mini on and off.

Mode Button: Switch between different modes (Bluetooth, Radio, AUX Line In).

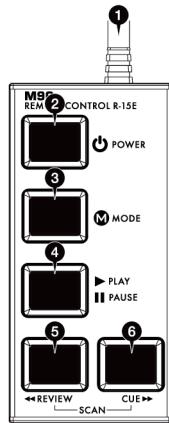
Play/Pause Button: Plays and Pauses the music.

Review Button: Go back to the start of the song or to the previous song if you are already at the start.

Cue Button: Go forward to the next song.

PARTS LIST:

1. Remote Cable
2. Power Button
3. Mode Button
4. Play/Pause Button
5. Review Button
6. Cue Button



OPERATING TIPS:

TO CHARGE THE M90 MINI, PLUG THE INCLUDED USB C CABLE INTO A POWER OUTLET.

- Use a USB outlet to charge.
- While charging, the LED light will light up Red to inform you that it is still charging. It will turn Green when fully charged.

TURN ON THE DEVICE AND IT WILL AUTOMATICALLY GO INTO BLUETOOTH PAIR MODE.

- Hold power button 2-3 seconds to turn on/off MINI M90.
- Make sure your device has Bluetooth on, and pair it with "Min_M90".

HIT THE MODE BUTTON TO CYCLE THROUGH MODES:

- Bluetooth mode will play music (or calls) from your Bluetooth device.
- Radio Mode will play the radio, use the Radio Tuning Knob to change channels.
- AUX Line In Mode will play music through the AUX Input Jack.

WHILE IN BLUETOOTH MODE, YOU CAN RECEIVE PHONE CALLS GO THROUGH THE M90 MINI.

- The Play/Pause Button on the M90 Mini will answer and end calls.

TROUBLE SHOOTING:

MY M90 MINI IS NOT PAIRING TO MY PHONE!

Make sure that your device's Bluetooth mode is set to on to pair your M90 Mini.

MY M90 MINI IS PLAYING OTHER MUSIC NOT THE MUSIC OFF MY PHONE!

Make sure you are on the correct mode (Bluetooth). Also, check to make sure you do not have an SD card or USB media device plugged in. The M90 will automatically play from a media device if one is plugged in.

THE BLUETOOTH AUDIO QUALITY SOUNDS DIFFERENT WITH DIFFERENT APPS.

Different apps have different sound qualities (for example, Spotify will sound different than YouTube).

THE BASS, TREBLE, AND BALANCE KNOBS ARE HARD TO GRAB.

Attach the XL Tuner Grips for easier use.

I CAN'T SWITCH BETWEEN MY MICRO SD CARD AND FLASHDRIVE WHEN THEY ARE BOTH PLUGGED IN.

Only the first media device that is plugged in will play. For example, if there is a Micro SD card when the Flash Drive is inserted, it will only play the Micro SD card in the Media mode.

WILL I DRAIN THE BATTERY IF I LEAVE MY M90 MINI ON STANDBY?

M90 Mini will shut off after 10 minutes if left on standby.

WHEN I HIT THE REVIEW BUTTON TWICE ON THE MINI REMOTE, IT DOES NOT GO TO THE PREVIOUS SONG.

You must hit the review button, wait a second, and then hit it again to go to the previous song.

TECHNICAL SPECS

Support Bluetooth Protocol	AVCTP1.0+AVRCP1.0+GAVDP+1.2+AVDTP.2 +AVDTP+1.0+A2DP+1.2+Hands-Free+Profile+1.5 +headset+Profile+V1.1
Test Range	-40°C+80°C
Wireless Transmission Range	50M
Transmission Power	CLASS2+MAX+4dB
Sensitivity	-80dB@0.1%+DER
Frequency Range	2.4G-2.48GHz
Audio Signal to Noise Ratio	≥75db
Speaker Output Power	30W
Degree of Distortion	≤1%
USB Output	5V/2.1A
Battery Capacity	20000mAh
Type-C Input	5V/2A; PD 18W(max.), 9V/2A

CAUTION:

CHOKING HAZARD on small parts (XL Tuner Knobs, Mini Cassette, Mini Cassette Case, etc.). Not suitable for children under 3 years old.

Opening and tampering with the RepliTronics M90 Mini can result in damage to your product, void of warranty, and could cause injuries.

To clean: wipe gently with a soft dry cloth. Never submerge your RepliTronics unit in water. Only charge with power adapters that meet the device's requirements.

Store in a cool, dry place when not in use.

WARRANTY:

All RepliTronics products come with a 100-day limited warranty and have been tested thoroughly to make sure they are the highest level of dependability and compatibility. In case of a defect, New Wave Toys warrants to the original consumer purchaser that this product will be free from defects in material and workmanship for a period of 100 days from the date of your original purchase.

If a warranty defect occurs, New Wave Toys, at their discretion, will repair or replace the product purchased at no charge or refund the original purchase price. If a replacement is necessary and your product is no longer available, a comparable product may be substituted at the sole discretion of New Wave Toys.

This warranty does not cover normal wear and tear, accidental damage or misuse, modifications, or any other cause not related to either materials or workmanship.



RoHS



CUSTOMER SERVICE INFORMATION:

For service on any defective product under the 100-day warranty policy, please contact Customer Service. New Wave Toys reserves the right to require the return of the defective product and proof of purchase.

Email: customersupport@newwavetoys.com

Website: www.newwavetoys.com

Facebook: www.Facebook.com/NewWaveToys

FCC Statement

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.

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Radiation Exposure Statement

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

ISED statement

English:

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.

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes : (1) Cet appareil ne doit pas provoquer d'interférences. (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

The device has been evaluated to meet general RF exposure requirement. This equipment should be installed and operated with minimum distance 0mm between the radiator & your body. L'appareil a été évalué pour répondre aux exigences générales d'exposition aux RF. Cet équipement doit être installé et utilisé avec une distance minimale de 0 mm entre le radiateur et votre corps.