powerbASS:::
X T R E M E

MC-110

Marine Grade Digital Media Center
with LCD Display

Application Guide

Please read through this manual to familiarize yourself with your new speakers. Should your
PowerBass Xtreme Marine Media Center ever require service, you will need to have the original dated receipt.

Thank you and Congratulations

Congratulations on your purchase of PowerBass Xtreme Marine Media Center. You now own a product of uncompromising design and engineering from a factory that truly believes in the relentless pursuit of perfection. Incorporating the highest quality parts and state-of-the-art materials.
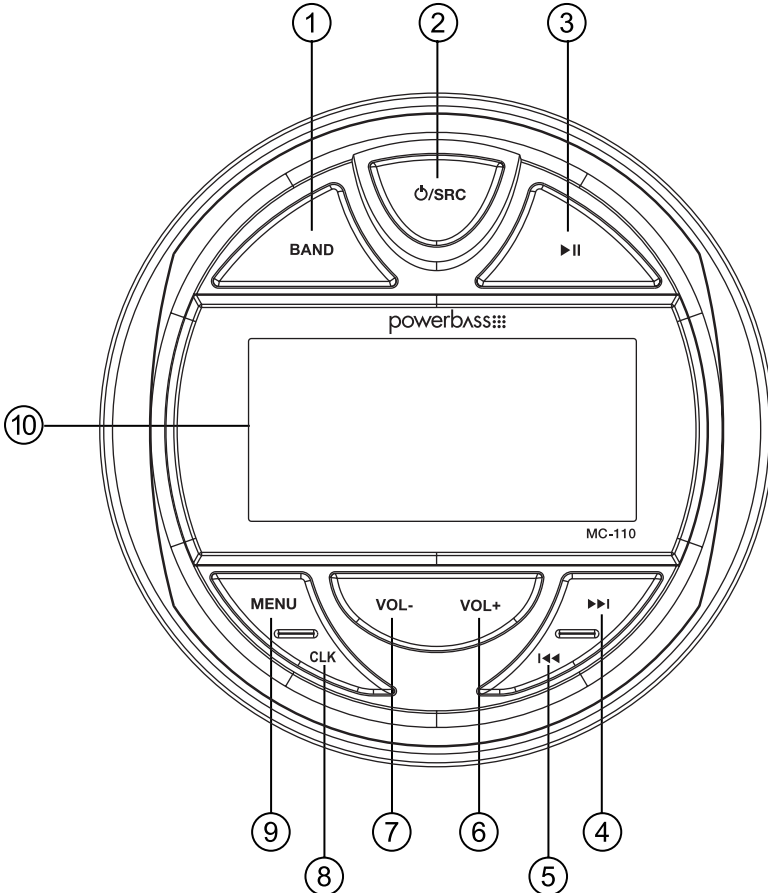

At PowerBass USA, Inc. we are confident you will have many years of outstanding enjoyment from this great investment. For maximum performance we recommend that you have your new PowerBass Xtreme product installed by an Authorized PowerBass Xtreme Dealer.

To learn more about PowerBass, please visit us on the World Wide Web at
http://www.powerbassusa.com

Δ Warning Δ

Continuous exposure to sound pressure levels in excess of 100 dB can cause permanent hearing loss. PowerBass Speakers are capable of producing sound pressure levels well over 170 dB. Please observe all local sound ordinances while listening to your PowerBass system. PowerBass USA, Inc. accepts no liability for hearing loss, bodily injury, or property damage due to the result of use or misuse of this product.

KEY FUNCTION

1. **BAND AM/FM/Weather Button**
2. **POWER / SOURCE Button**
3. **PLAY/PAUSE Button**
4. **SEEK / TRACK UP Button**
5. **SEEK / TRACK DOWN Button**
6. **VOLUME+ Button**
7. **VOLUME- Button**
8. **CLOCK Button**
9. **MENU Button**
10. **LCD Display**

BASIC OPERATION

TURN ON/OFF THE UNIT
Press ⏻**/SRC** button to turn on the unit. When the unit is on, press and hold it for 2 seconds to turn off the unit.

SOUND AND SETTING ADJUSTMENT
Shortly press **MENU** button to enter the audio menu as below:
BASS -> TRE -> BAL -> FAD -> EQ (CLASS/ROCK/POP/OFF) -> LOUD (ON/OFF) -> AEQ(ON/OFF) -> RESET

After the AEQ is set to ON, Press **MENU** button again, you can boost or cut below frequency:
31Hz / 62Hz / 125Hz / 250Hz / 500Hz / 1KHz / 2KHz / 4KHz / 8KHz / 16KHz

Hold the **MENU** button to enter the system menu as below:
SWVOL(20) -> LPF(80) -> AMP(ON/OFF) -> BEEP(ON/OFF) -> P_VOL(19) -> CLOCK(12/24) ->
CT(INDEP/SYNC) -> AREA(USA/EUR) -> DX/LOC -> STEREO/MONO

In each item press **VOL+/-** button to set them.
AMP on/off:
AMP off: Muting the speakers output.
AMP on: Speakers have sound output.

NOTE: every cycle from AMP off to on, the volume value will return to 19.

CLOCK (24/12)
Setting the time to 24 hour or 12 hour format.

P-VOL (Preset VOL)
Setting the power on volume. If the volume on shutdown is lower than the P-VOL value, the volume will be maintained at shutdown volume. If the volume on shutdown is greater than the P-VOL value, the volume will be restored to the P-VOL value.

CT (Clock Time)
CT INDEP: The clock works independently.
CT SYNC: The clock will be synchronized to the received RDS station's time.

NOTE: When the time is set manually. The CT will go back to INDEP mode automatically. *AREA (USA/EUR)*: Choose America or Europe region frequency.

BASIC OPERATION (cont.)

INFORMATION PRIORITY OR CLOCK PRIORITY
Shortly press **CLK** button to change the clock priority or information priority.

CLOCK SETTING
Press and hold **CLK** button for 2 seconds. The "**HH**" will flash. Press **VOL+/-** button to change the hour. After that press **MENU/CLK** button the "**MM**" will flash. Press **VOL+/-** button to change the minute. Then press **MENU/CLK** button to confirm.

NOTE: When the time is set, the **CT** item will go back to **INDEP** mode automatically.

RESET THE UNIT
In Standby status (B+ on, ACC on, power off.) press and hold ▶▶I button for 5 seconds to reset the unit to factory settings. (Note: After reset all memory will be lost.)

RADIO OPERATION

Receive a Radio Station
Press ⏻/**SRC** button to select radio source. Then press **BAND** button to select desired band. Shortly press I◀◀ , ▶▶I button to receive the desired radio station.

Press and hold **VOL+/-** button for manual tuning by frequency.

Auto Store
Press and hold **BAND** button for 2 seconds to auto store stations to band 1~3.

Manually Store Station & Recall Preset Station
Receive a desired station. Press and hold the ▶II button. It shows "**SAVE P1**". Press **VOL+/-** button to select **P1~P6** then press **MENU** button to save.

Listening The Presets Station
Shortly press the I◀◀ , ▶▶I button to select presets and listening

BASIC OPERATION (cont.)

USB OPERATION
When a USB drive is inserted into the MC-110, the unit will play the MP3/WMA file automatically. If a USB drive is already inserted in the MC-110 Keep pressing ⏻/SRC button shortly until the USB mode display appears.

Select File
Press I◄◄ , ►►I button to skip to next/previous file. Hold I◄◄ , ►►I button to fast forward or fast reverse.

Play/Pause
Press ►II button to play or pause the song.

Search Song Operation
Press and hold **BAND** button for 2 seconds to show **NUM ******, Press **VOL+/-** to enter numbers then press **MENU** button to play.

Repeat/Random Operation
Press and hold ►II button for 2 seconds to select below item:
RPT ALL -> RDM ON -> RPT ONE -> RPT FOLD

IPHONE Playing
Connect an IPHONE to the USB port of the MC-110 via a USB cable. The operation is same as the USB operation.

AUX IN Operation
Connect the source to the **AUX IN** connector behind the unit. Then press ⏻/SRC button to switch to **AUX IN** source.

BLUETOOTH OPERATION

Pairing
On mobile phone, select the Bluetooth item search for the Bluetooth device. *"MC-110"* it should appear in the list, select *"MC-110"* and then input password "0000" if it needs a password. When successfully paired, the BT icon will be displayed on LCD.
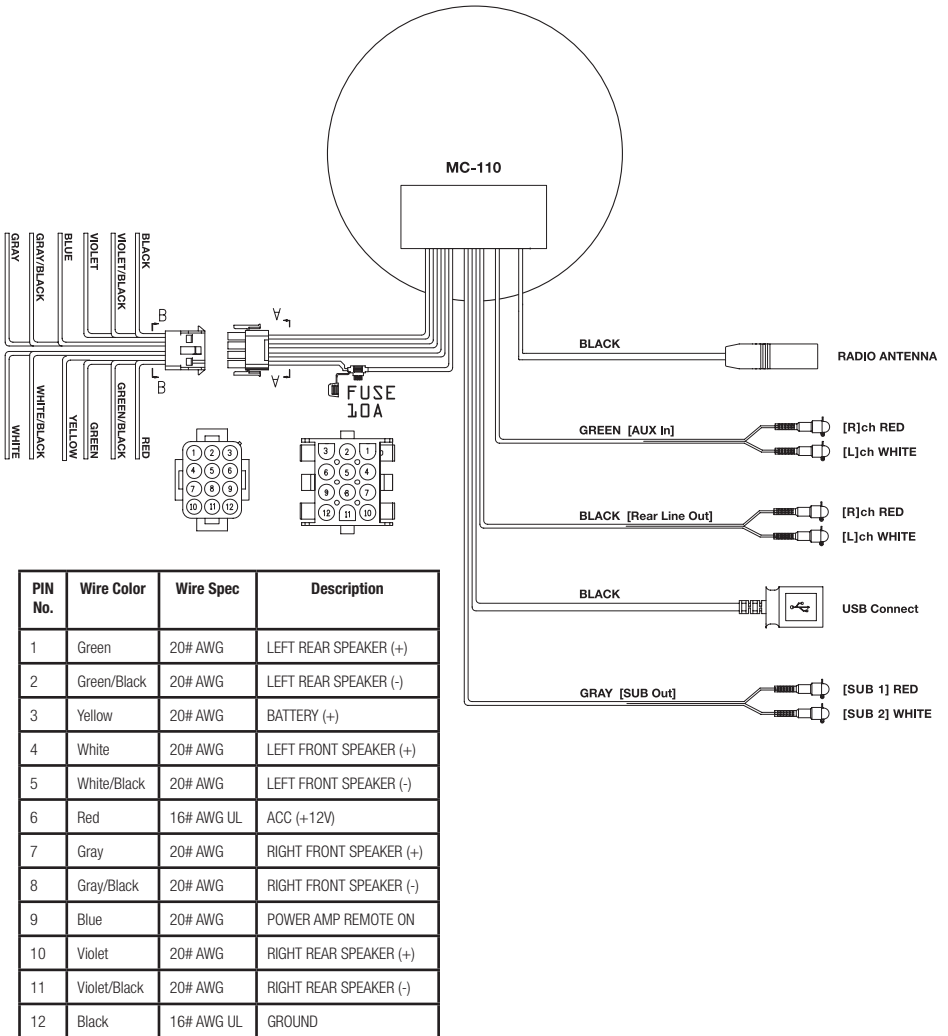
Bluetooth Audio
Press ⏻/SRC button to switch to *BT MUSIC* mode. Press ►II button to play or pause the song. Press I◄◄ , ►►I button to select next/previous song.

Disconnect the Bluetooth
When the mobile phone is paired with the MC-110. In *BT MUSIC* mode, press and hold the ►II button for 2 seconds to disconnect/re-connect the Bluetooth.
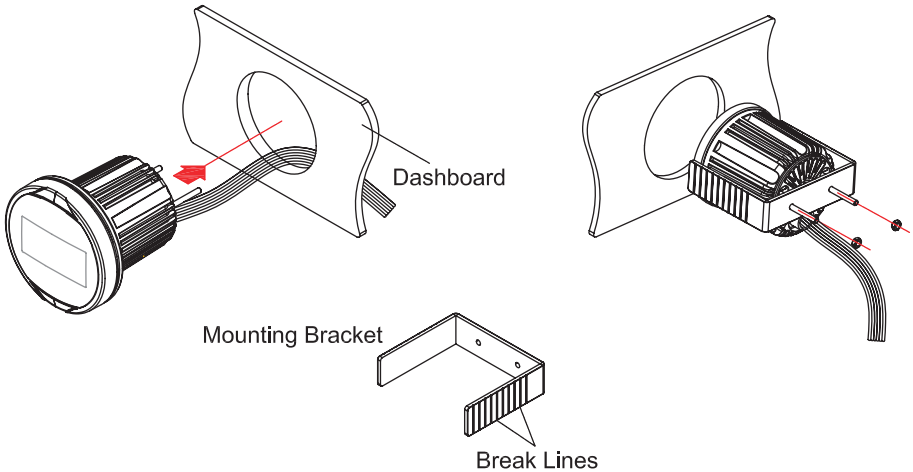
INSTALLATION

MC-110

BLACK — RADIO ANTENNA

GREEN [AUX In] — [R]ch RED / [L]ch WHITE

BLACK [Rear Line Out] — [R]ch RED / [L]ch WHITE

BLACK — USB Connect

GRAY [SUB Out] — [SUB 1] RED / [SUB 2] WHITE

FUSE 10A

PIN No.	Wire Color	Wire Spec	Description
1	Green	20# AWG	LEFT REAR SPEAKER (+)
2	Green/Black	20# AWG	LEFT REAR SPEAKER (-)
3	Yellow	20# AWG	BATTERY (+)
4	White	20# AWG	LEFT FRONT SPEAKER (+)
5	White/Black	20# AWG	LEFT FRONT SPEAKER (-)
6	Red	16# AWG UL	ACC (+12V)
7	Gray	20# AWG	RIGHT FRONT SPEAKER (+)
8	Gray/Black	20# AWG	RIGHT FRONT SPEAKER (-)
9	Blue	20# AWG	POWER AMP REMOTE ON
10	Violet	20# AWG	RIGHT REAR SPEAKER (+)
11	Violet/Black	20# AWG	RIGHT REAR SPEAKER (-)
12	Black	16# AWG UL	GROUND

1. The MC-110 can only be connected to a 12V DC cathode grounding electrical system.
2. Do not connect the terminals of the battery until the MC-110 installation is complete.
3. Please make sure to connect the yellow wire directly to the positive terminal at the battery(+).
4. When changing the fuse, please make sure to disconnect the battery terminals.

MOUNTING

Once a suitable location has been determined, Cut out the mounting hole and secure the MC-100 using the supplied metal mounting bracket. If the bracket needs to be shortened, remove the appropriate number of breakaway segments using a pair of pliers.

Dashboard

Mounting Bracket

Break Lines

1. This player should be installed by professional technician.

2. Please read the instruction and operation of equipment carefully before installing.

3. Make sure to connect other wires before power connection.

4. To avoid short circuit. Please make sure all the exposed wire are insulating.

5. Please fix all the wires after installation.

6. Please make connection to the player accordingly to this instruction manual. Wrong connection may cause damage.

7. This player only fit for 12V DC device and please make sure your car belongs to this kind of cathode grounding electrical system.

8. Please connect the wires rightly. Wrong connection will cause malfunction or damage the electrical system.

SPECIFICATIONS

Power Supply Requirements:
DC 12 Volts, Negative Ground

Chassis Dimensions:
115 (W) x 115 (D) x 75 (H)

Tone Controls
Bass (at 100 Hz): ±10 dB
Treble (at 10 kHz): ±10 dB

Output Power:
4 x 20 watts RMS
4 x 40 watts MAX

Current Drain:
10 Ampere (max.)

RADIO FM
Frequency Coverage: 87.5 to 107.9 MHz
IF: 10.7 MHz
Sensitivity: 4μV (S/N=30dB)
Stereo Separation: >25dB

RADIO AM
Frequency Coverage: 530 to 1710 kHz
IF: 450 KHz
Sensitivity: 36dBuV (S/N=20dB)

TROUBLESHOOTING

Before going through the checklist, check wiring connection. If any of the problems persist after checklist has been made, consult your nearest service dealer.

Symptom	Cause	Solution
No power	The car ignition switch is not on.	If the power supply is connected to the car accessory circuits, but the engine is not moving, switch the ignition key to "ACC".
	The fuse blown.	Replace the fuse.
No sound	Volume is in minimum	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connection.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise.	Press the reset button.
The radio does not work. The radio station automatic selection does not work	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.

POWERBASS ELECTRONICS
LIMITED WARRANTY POLICY

PowerBass USA, Inc. offers limited warranty on PowerBass products under normal use on the following terms:

PowerBass Xtreme Electronics are to be free of defects in material and workmanship for a period of one (1) year.

This warranty applies only to PowerBass products sold to consumers by Authorized PowerBass Dealers in the United States of America. Products purchased by consumers from a PowerBass dealer in another country are covered only by that country's Distributor and not by PowerBass USA.

This warranty covers only the original purchaser of PowerBass product. In order to receive service, the purchaser must provide PowerBass with the receipt stating the consumer name, dealer, product and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at PowerBass's discretion and will not be liable for incidental or consequential damages. PowerBass will not warranty this product under the following situations:

- **Amplifiers received with apparent rust or corrosion**
- **Any evidence of liquid damage or exposure to excessive heat**
- **Attempted repairs or alterations of any nature**
- **Product that has not been installed according to this owners manual**

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for PowerBass any other liability in connection with the sale of this product.

Please call (909) 923-3868 for PowerBass Customer Service. You must obtain an RA# (Return Authorization Number) to return any product to PowerBass. The RA number must be prominently marked on the outside of the shipping carton or the delivery will be refused. Please pack your return carefully; we are not responsible for items damaged in shipping. Return the defective product along with a copy of the original dated retail sales receipt, plus $12.00 for handling and diagnostic evaluation to:

PowerBass USA, Inc.,
Attn: Returns (RA#_____)
2133 S. Green Privado, Ontario, CA 91761

Residents of HI, AK and US territories will be charged for return shipping. All inquires regarding service and warranty should be sent to the above address.

Removed or altered serial numbers will void this warranty

PowerBass Xtreme (PBX) – A division of PowerBass USA, Inc.
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