# powerbass⦂⦂⦂ ®
## X T R E M E



**MC-150**

**Marine Grade Digital Media Center**
**with TFT 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.*

# powerbass XTREME

## 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 OPERATIONS
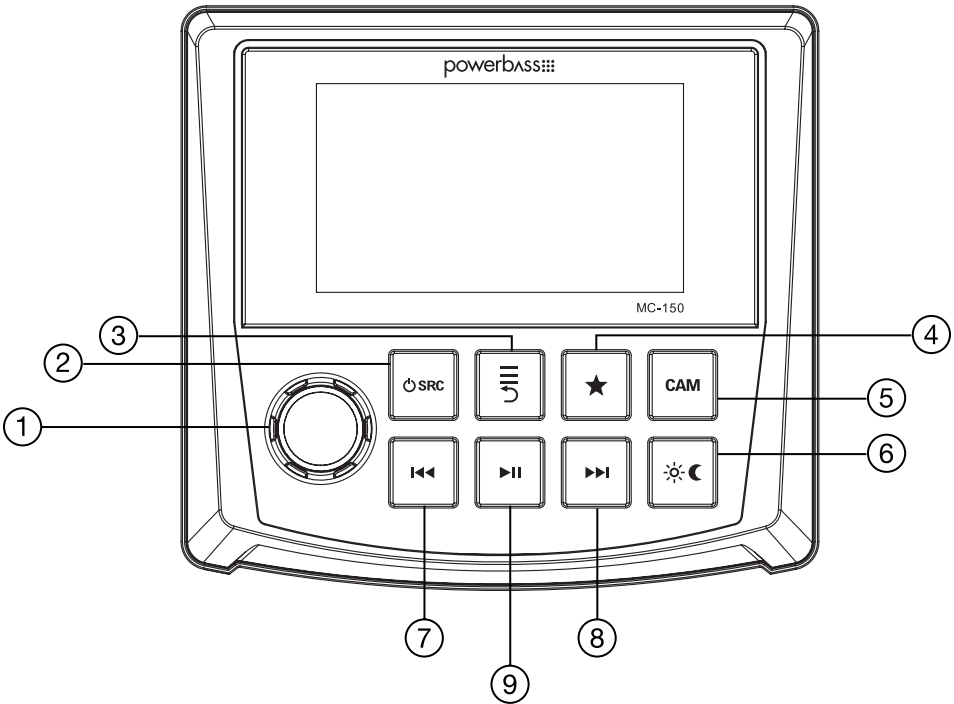


1. **ROTARY / VOLUME**
2. **POWER / SOURCE**
3. **MENU / RETURN**
4. **PRESETS**
5. **CAMERA**
6. **DAY/NIGHT**
7. **SEEK DOWN / TRACK PREVIOUS**
8. **SEEK UP / TRACK NEXT**
9. **PLAY / PAUSE**

# KEY OPERATIONS

| BUTTON KEY | ACTION | RADIO | USB | AUX | BLUETOOTH |
|---|---|---|---|---|---|
| (1)<br>Knob<br>[ROTARY] | ROTATE | Volume +/-<br>Zone1, Z2 & SUB | Volume +/-<br>Zone1, Z2 & SUB | Volume +/-<br>Zone1, Z2 & SUB | Volume +/-<br>Zone1, Z2 & SUB |
| (1)<br>Knob<br>[PUSH] | Short Press | Zone 2 VOL<br>->Sub VOL | Zone 2 VOL<br>->Sub VOL | Zone 2 VOL<br>->Sub VOL | Zone 2 VOL<br>->Sub VOL |
| | Long Press | In FM: RDS menu<br>In AM/WB: n/a | AF / TA<br>PTY SEL | – | – |
| (2)<br>⏻SRC<br>Power/Source | Short Press | Change Source | Change Source | Change Source | Change Source |
| | Long Press | Power Off | Power Off | Power Off | Power Off |
| (3)<br>Menu/Return | Short Press | Settings Menu<br>/ Back | Settings Menu<br>/ Back | Settings Menu<br>/ Back | Settings Menu<br>/ Back |
| | Long Press | Exit Menu | Exit Menu | Exit Menu | Exit Menu |
| (4)<br>★<br>Presets | Short Press | Preset<br>(Rotate KNOB to select) | USB Settings | – | – |
| | Long Press | Manual<br>save station | – | – | Disconnect Bluetooth<br>/ Reconnect Bluetooth |
| (5)<br>CAM<br>Camera | Short Press | Camera Source | Camera Source | Camera Source | Camera Source |
| | Long Press | – | – | – | – |
| (6)<br>☀☾<br>Day/Night | Short Press | Night/Day | Night/Day | Night/Day | Night/Day |
| | Long Press | Dimmer (H/L) | Dimmer (H/L) | Dimmer (H/L) | Dimmer (H/L) |
| (7)<br>◄◄<br>Track Previous<br>/ Seek Down | Short Press | Seek Down | Previous File | – | Previous File |
| | Long Press | Manual Tune Backward | Fast Reverse | – | – |
| (8)<br>►►►<br>Track Next<br>/ Seek Up | Short Press | Seek Up | Next File | – | Next File |
| | Long Press | Manual Tune Forward | Fast Forward | – | – |
| (9)<br>►II<br>Play/Pause | Short Press | Mute ON/OFF | Play/Pause | Mute ON/OFF | Play/Pause |
| | Long Press | Auto Store | – | – | – |

# GENERAL OPERATION INSTRUCTIONS

**POWER ON/OFF THE UNIT**

Press the ⏻**SRC** /SRC button to power on the unit. When the unit is on. Press and hold it for 2 seconds to power off the unit.

**PLAY PAUSE / MUTE ON/OFF**

When in the Radio, Weather or Aux modes. Press the ▶II button to mute the output. Press it again to unmute the output.

When in the Bluetooth or USB modes. Press the ▶II button to pause the current song. Press it again to resume playback.

**SETTINGS MENU**

Press the ☰ button to open the settings menu. Rotate the VOL knob to select and then push the knob to enter into the desired setting below:

ZONE1->ZONE2->SUBWOOFER->BEEP->CLOCK SETTINGS->LANGUAGE->AREA->LOCAL->STEREO/MONO->DIMMER->BRIGHTNESS->CONTRAST->HUE-> RESET->VERSION

When inside the selected menu, rotate the VOL+/- knob to review options and push the knob to select the desired change.

NOTE: In the menu, press ☰ return to previous menu, hold ☰ button to exit menu.

**ZONE1/ZONE2 BASS/TREBLE/BALANCE/PRESET EQ SETTINGS**

Select the ZONE1 / ZONE2 sub-menu, rotate the VOL knob to select BASS / TREBLE/BALANCE/Preset EQ and press the knob to select the desired setting. Rotate the VOL knob to selected options or change their value then push the knob to select the setting you have chosen. To exit the menu rotate the VOL knob and select EXIT.

**ZONE1/ZONE2/SUB VOLUME OPERATION**

1) Rotate the VOL knob to adjust zone1, zone2 & subwoofer volume up/down together as a master volume adjustment.
2) Press the VOL knob once this will show ZONE2 VOL, then rotate the VOL knob to adjust ZONE2 volume independently. When this is set ZONE 2 will not exceed the level selected when using the master volume control.
3) Press the VOL knob twice this will show SUB VOL, then rotate the VOL knob to adjust the subwoofer volume independently. When this is set the subwoofer will not exceed the level selected when using the master volume control.

# GENERAL SETTINGS (cont.)

**DAY/NIGHT MODE AND DIMMER OPERATION**
Shortly press the ☼☾ button to change between DAY/NIGHT mode.
Press and hold the ☼☾ button to change dimmer High/Low mode.
Also you can set the Dimmer setting High/Low in the main menu.

**SWITCH TO CAMERA INPUT SOURCE**
There are 3 ways to switch to the CAMERA source below:

1) Press the SRC button and rotate the VOL knob to select CAMERA source mode push knob to confirm. Note when activated in this method the sound output will be muted.

2) The Camera trigger wire when connected to 12V power will switch into the CAMERA source mode. Note when activated in this method the previous sound output will not be muted and will play as normal.

3) Press the CAM button to switch CAMERA source mode. Press it again back to return to the previous source mode. Note when activated in this method the previous sound output will not be muted and will play as normal.

**MASTER RESET FUNCTION**
In the settings menu, select RESET to restore ALL SETTINGS to the factory settings.

**RADIO OPERATION**
Press the SRC button then rotate the VOL knob to select FM/AM source and push to confirm. Shortly press ◄◄ , ►►I button to search for the desired radio station. Press and hold I◄◄ , ►►I button for manual tuning to the desired frequency.

**AUTO STORE STATIONS:**
Press the ►II button for 2 seconds to auto store stations to the presets.

**MANUALLY STORE STATIONS:**
Select a desired station. Press the ★ button to open the presets menu, rotate the VOL knob to select a preset number, then press and hold the  button to save to this frequency as a preset.

**RECALL PRESET STATIONS:**
Press the ★ button to open the presets menu, then rotate the VOL knob to select the desired preset, then press the VOL knob to select it.

# GENERAL SETTINGS (cont.)

**RDS OPERATION**
Press and hold the VOL knob to show the RDS menu. Rotate the VOL knob to select and push the knob to confirm the setting.

**ALTERNATIVE FREQUENCY MODE**
During operation in the USA, The AF function is disabled this setting can only be used when operating the device in EUROPE.

When in the Radio mode, press and hold the VOL knob to access the submenu. Scroll using the VOL knob to the the AF setting and push to select on or off.

**AF ON:** The symbol "AF" appears on the radio display and the program name is displayed when receiving a RDS station. The "AF" symbol will start blinking if the broadcasting signal begins to get weaker. AF mode will start to search for the stronger station frequency which and will automatically switch to the strongest station option. If the tuner cannot find a stronger station in the AF list, It will activate the PI SEEK mode to search for the station with the same PI.

**AF OFF:** The AF mode is set to off and will not function.

**TRAFFIC ANNOUNCEMENT (TA)**
**TA ON:** When receiving a TA station notification, the radio will switch temporarily to radio mode to listen to the TA station regardless of the current operation mode. If the volume level has been set lower than the preselected TA volume it will be momentarily raised to the TA volume automatically.
**TA OFF:** Turn off the TA function.

**PTY OPERATION**
Rotate the **VOL** knob to select the PTY category desired.
Push the **VOL** knob to make your selection.
Press **VOL** knob again to go back to search.

**WB (WEATHER BAND) OPERATION**
Press the **SRC** button then rotate the VOL knob to select the WB source, and push to confirm.

**STATION SELECT:**
Press the ★ button to open the presets, rotate the VOL knob to select the desired preset, then press the VOL knob to select. Press the ◄◄ , ►►  button to select the next/previous stations.

# USB OPERATION

When an USB drive is inserted to the MC-150, playback of the MP3/WMA file will begin automatically.
If an USB drive was previously inserted in the MC-150. Press the SRC button then rotate the VOL knob to select
USB source mode and press to confirm.

### SELECT FILE & FAST FORWARD/FAST REVERSE
Press the I◀◀ , ▶▶I button to skip to next/previous file. Hold the I◀◀ , ▶▶I button to fast forward or fast reverse.

### PLAY/PAUSE
Press the ▶II button to pause or to resume playing the file.

### REPEAT/RANDOM/FILE LIST FUNCTION:
In the USB mode, press the ★ button to open the menu options:

### REPEAT ON / REPEAT ALL / RANDOM ON / FILE LIST
Rotate the VOL knob to select the function and press to confirm.

# AUX OPERATION

Connect the device to the AUX IN Connector. Press the SRC button and then rotate the VOL knob to select the AUX
source mode and push to confirm. Controls will be made from the AUX device when in this mode.

# BLUETOOTH  OPERATION

### PAIRING
On mobile phone or Bluetooth device, Look for the Bluetooth device. "MC-150" to appear in the list, select "MC-150" and then input the password "0000" If prompted to enter a password. When pairing is successful, the BT
icon will be shown on the MC-150 display screen.

### BLUETOOTH AUDIO
Press the SRC button to switch to the BT source. Playback will begin immediately.
Press the ▶II button to pause/play the song.
Press the I◀◀ , ▶▶I button to select next/previous songs.

### DISCONNECT / RE-CONNECT TO BLUETOOTH
When paired with the MC-150 and you want to disconnect the Bluetooth connection. Select the BT source mode,
press and hold the ★ button for 2 seconds this will disconnect or will allow for re-connection of the Bluetooth
signal.

NOTE: For more operation information please use the Key functions table listed above.
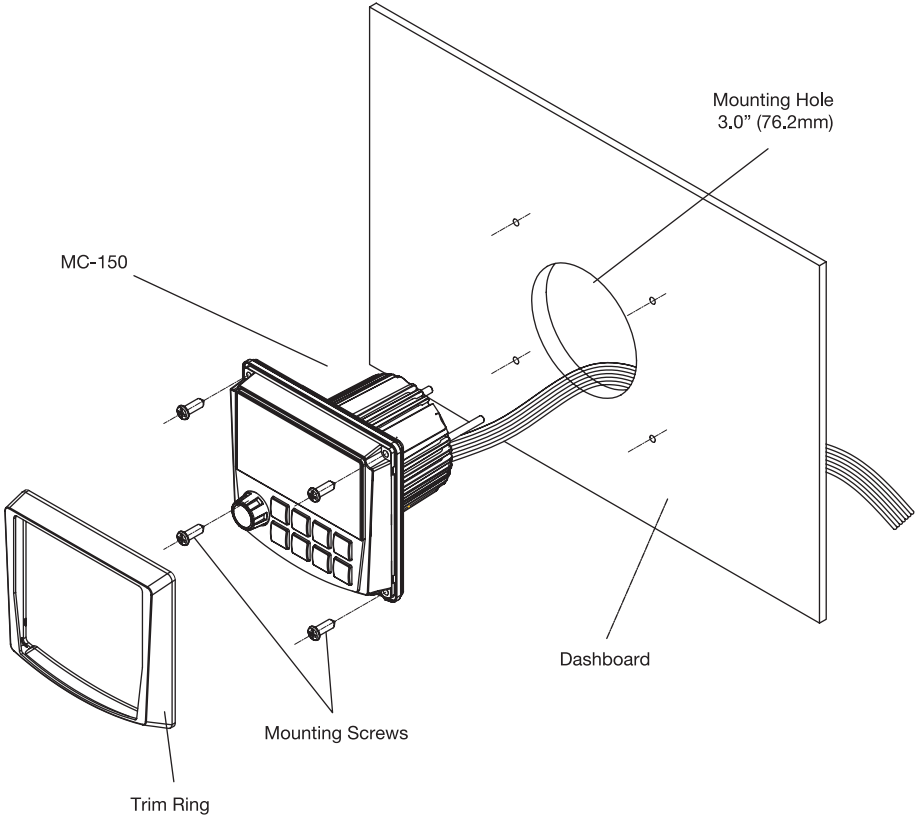
# INSTALLATION

**NOTES:** Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit, fire and/or possible injury.
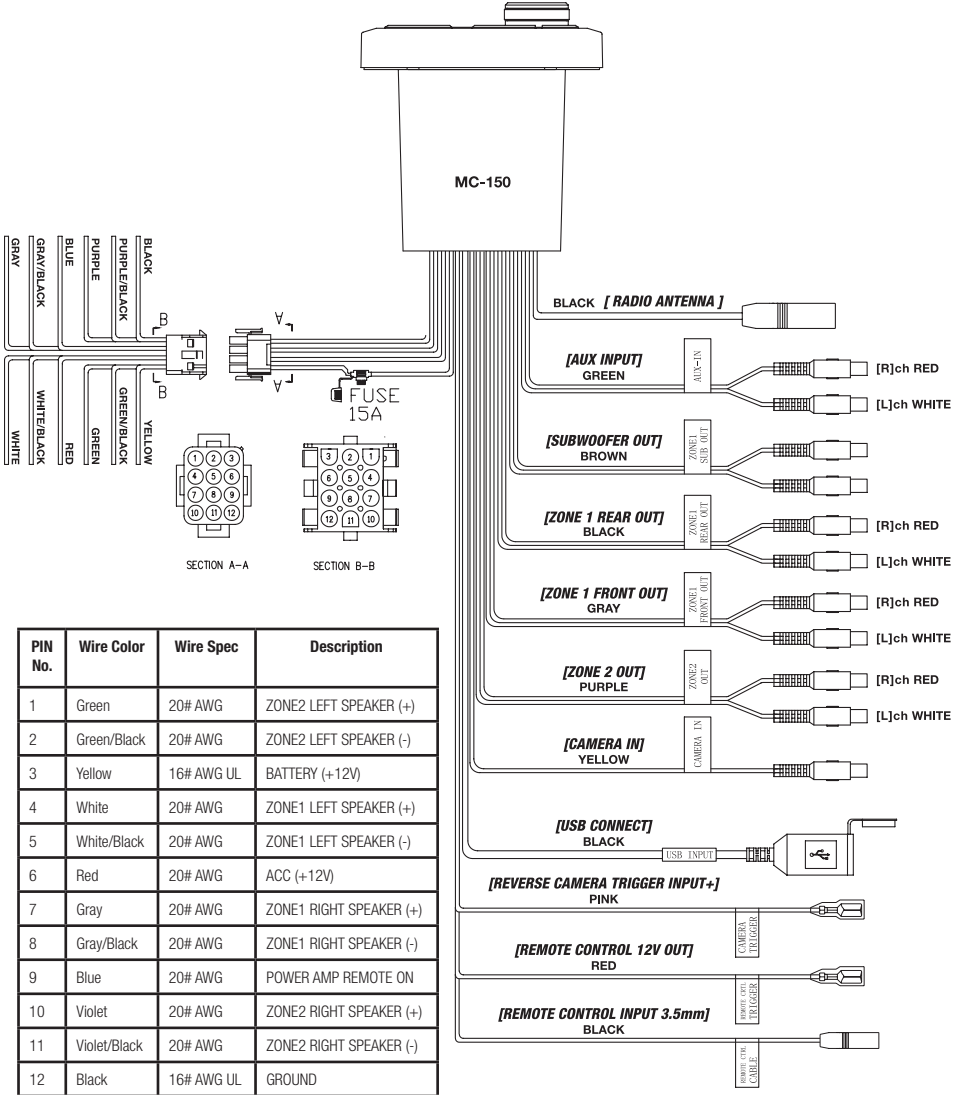
Before beginning any installation, follow these simple rules:

1. Be sure to carefully read and understand the instructions before attempting to install the unit.

2. For safety, disconnect the negative lead from the battery prior to beginning the installation.

3. For easier assembly, we suggest you run all wires prior to mounting your unit in place.

4. Route all of the RCA cables close together and away from any high current wires.

5. Use high quality connectors for a reliable installation and to minimize signal or power loss.

6. Think before you drill! Be careful not to cut or drill into gas tanks, fuel lines, brake or hydraulic lines, vacuum lines or electrical wiring when working on any vehicle.

7. Never run wires underneath the vehicle. Running the wires inside the vehicle provides the best protection.

8. Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through metal, especially the firewall.

9. ALWAYS protect the battery and electrical system from damage with proper fusing. Install the appropriate fuse holder.

10. When grounding to the chassis of the vehicle, scrape all paint from the metal to ensure a good, clean ground connection. Grounding connections should be as short as possible and always be connected to metal that is welded to the main body or chassis of the vehicle. Seatbelt bolts should never be used for connecting to ground.

# MOUNTING

Mounting Hole
3.0" (76.2mm)

MC-150

Dashboard

Mounting Screws

Trim Ring

11

# INSTALLATION

MC-150

GRAY
GRAY/BLACK
BLUE
PURPLE
PURPLE/BLACK
BLACK

WHITE/BLACK
WHITE
RED
GREEN
GREEN/BLACK
YELLOW

B
A
A
B

FUSE
15A

SECTION A-A

```
1  2  3
4  5  6
7  8  9
10 11 12
```

SECTION B-B

```
3  2  1
6  5  4
9  8  7
12 11 10
```

BLACK [ RADIO ANTENNA ]

[AUX INPUT]
GREEN
AUX-IN
[R]ch RED
[L]ch WHITE

[SUBWOOFER OUT]
BROWN
ZONE1 SUB-OUT

[ZONE 1 REAR OUT]
BLACK
ZONE1 REAR OUT
[R]ch RED
[L]ch WHITE

[ZONE 1 FRONT OUT]
GRAY
ZONE1 FRONT OUT
[R]ch RED
[L]ch WHITE

[ZONE 2 OUT]
PURPLE
ZONE2 OUT
[R]ch RED
[L]ch WHITE

[CAMERA IN]
YELLOW
CAMERA IN

[USB CONNECT]
BLACK
USB INPUT

[REVERSE CAMERA TRIGGER INPUT+]
PINK
CAMERA TRIGGER

[REMOTE CONTROL 12V OUT]
RED
REMOTE CTL TRIGGER

[REMOTE CONTROL INPUT 3.5mm]
BLACK
REMOTE CTL CABLE

| PIN No. | Wire Color | Wire Spec | Description |
|---|---|---|---|
| 1 | Green | 20# AWG | ZONE2 LEFT SPEAKER (+) |
| 2 | Green/Black | 20# AWG | ZONE2 LEFT SPEAKER (-) |
| 3 | Yellow | 16# AWG UL | BATTERY (+12V) |
| 4 | White | 20# AWG | ZONE1 LEFT SPEAKER (+) |
| 5 | White/Black | 20# AWG | ZONE1 LEFT SPEAKER (-) |
| 6 | Red | 20# AWG | ACC (+12V) |
| 7 | Gray | 20# AWG | ZONE1 RIGHT SPEAKER (+) |
| 8 | Gray/Black | 20# AWG | ZONE1 RIGHT SPEAKER (-) |
| 9 | Blue | 20# AWG | POWER AMP REMOTE ON |
| 10 | Violet | 20# AWG | ZONE2 RIGHT SPEAKER (+) |
| 11 | Violet/Black | 20# AWG | ZONE2 RIGHT SPEAKER (-) |
| 12 | Black | 16# AWG UL | GROUND |

# SPECIFICATIONS

**Power Supply Requirements:** DC 12 Volts, Negative Ground DC 10.5-17.9 Volts, Negative Ground

**Chassis Dimensions:** 76mm(dia) x 105(D)  /  3.0" x 4.13"

**Front Panel Dimensions:** 115.2mm(W) x 105.6 (H) 20.8mm(D)  4.5" x 4.15" x 0.82"

**Mounting Depth (including harness brace):** 105mm / 4.13"

**Maximum Output Power:** 4 x 40 W @ 2 Ohms

**Fuse Rating:** 15A

**Pre-output Voltage/Load:** 2.5Vrms/10k ohm load

**Subwoofer Preamp out:** 1 Pair RCA OUT

**ZONE 2 Preout:** 1 Pair RCA OUT

**Frequency Response:** 20Hz-20KHz

**TFT display:** 3 inch 960x240 pixel

**RADIO FM**
**Frequency Range (EUROPE AREA):**  87.5-108 MHz (Step 50 KHz)
**Frequency Range (USA AREA):**  87.5-107.9 MHz (Step 200 KHz)
**Preset memory stations:**  18

**RADIO AM/WB**
**Frequency Range (EUROPE AREA):**  522-1620 KHz (Step 9 KHz)
**Frequency Range (USA AREA):**  530-1710 KHz (Step 10 KHz)
**Preset memory stations:**  12

**WB RADIO**
**Frequency Range:**  162.400-162.550 MHz (Step 25 KHz)
**Preset memory stations:**  7

**USB INTERFACE**
**USB Compatibility:**  USB 2.0
**Support format:**  MP3/WMA
**USB Charging :**  2A
**iPhone Control :**  Direct USB (Only supports lightning interface devices)

**BLUETOOTH**
**Music Streaming:**  A2DP
**Bluetooth VERSION:**  5.0

# 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 ignition switch is not on. | 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. |
| Bluetooth audio is cutting in and out | Device is out of Bluetooth range. | Ensure the music device is located near the MC150 to prevent interruptions to audio playback. |
| USB device is not recognized | The USB device is damaged. | Disconnect USB device and reconnect. If the device is still not recognized, try replacing with a different USB device |
|  | Connectors are loose | Check connections |
| No sound heard with the display "No File" shown | No MP3/WMA files are stored on the USB device | Files must be stored properly on the USB device. |
| 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.

<u>**Removed or altered serial numbers will void this warranty**</u>

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