

Bluetooth

MB450PA USER'S MANUAL

BLUETOOTH° | MP3-COMPATIBLE USB/MP3/WMA/PA DIGITAL MEDIA AM/FM RECEIVER







MP3/WMA

Overview of the Components



- Ů (power) / SRC (source) button
- VOL (volume) knob, SEL(select/menu) button
- BAND / AS(automatic store station, automatic music search) button ▶II (pause/play), Preset station 1 button
- 5. INT (intro), Button for preset station 2
- 6. RPT (repeat), Button for preset station 3
- 7. RDM (random), Button for preset station 4
- 8. -10(previous 10 tracks), previous folder, Button for preset station 5 9. +10(next 10 tracks), next folder, Button for preset station 6
- 10. DISP (time display), MUTE button
- 11. ◄◄ (tune/seek down, previous track, fast reverse) button
- ►► (tune/ seek up, next track, fast forward) button
- 13. LCD Display
- 14. USB Port
- 15. AUX IN (auxiliary input) jack
- 16. Reset button

General Operation

Turn Unit on/off, Change the Source

• Press the ⊕ /SRC button to turn on the unit. Press and hold the ⊕ /SRC button to turn off the unit.

• Press the ⊕ /SRC button to select the different modes: Radio, USB(with USB device inserted), AUX IN-F(Front 3.5mm AUX input) , AUX IN-R(Rear RCA AUX input) and BT(Bluetooth) modes.

Play MP3/WMA music inside a USB stick. Insert the USB stick with MP3/WMA musics into the USB port, it will play automatically.

Note: the USB port also supports charging mobile phone, the maximum charging ability is 5V 1A. $\label{eq:charge_eq}$

Press and hold the ▶ or ◄ button to fast forward or reverse a track.

Press again to stop the introduction scan, and play the current tracks

Track/Folder Navigation - Press the -10/+10 buttons to jump 10 tracks backward or forward. It only works when there are more than 10 tracks inside the USB stick.

- Press and hold the -10/+10 button to select the previous or the next folder.

Press the INT button to play the first 10 seconds of all track

Playing all tracks in random
Press RDM once, play all tracks randomly.
Press RDM once again, exit from random playback.

(If there are folders on the storage medium.)

Press the ►II button to interrupt the playback of a music (pause function). Press this button again to continue the playback.

Repeating the track
Press the RPT button to toggle between RPT ALL (Play all track), RPT FLR
(Continuously repeat all tracks in current folder) and RPT ONE
(Continuously repeat current track).

Select the track or file for playback in MP3 format
a) Press and hold the BAND/AS button to enter track search mode.
First "TRK0000" will appear on the display.
b) Rotate the volume knob and select the "first number". Then press the
button to move the "first number" to the left and enter the next number.

87.5 MHz - 107.9 MHz

530 KHz - 1710 KHz

200 KHz

10 KHz

MP3/WMA

20 Hz - 20KHz

Pack PAK104

Available from MITO

Corporation (888) 433-6486

2.0

5V/1A

60dB

c) When the desired track number appears, confirm your selection by

In the USB mode, briefly press the \implies I or I \blacktriangleleft button to play the the next or

Adjust the volume (VOL) Rotate the VOL knob to increase or decrease the volume level.

USB Operation

previous track Fast Forward/Reverse

Introduction Scan

Select Next Track or Previous Track

Installation

Installation Procedures

First complete the electrical connections and then check for correctness

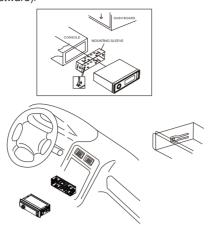
Installation Opening

This unit can be installed in any dashboard Having an opening as shown below



Insert mounting collar into the dashboard and bend the mounting tabs out with a screwdriver.

Make sure that lock lever is flush with the mounting collar(not projecting outward).



General Operation

Adjust Menu Options (SEL)

• In any mode, press SEL button to enter into setting menu.

Press the ▶ or I◄ button together with SEL button to select setting items, rotate VOL knob to change values.

- BASS: -7, -6, ~, 1, 0, +1, ~, +6, +7
 TREBLE: -7, -6, ~, 1, 0, +1, ~, +6, +7
 BALANCE: L7, L6, ~, L1, L=R, R1, ~, R6, R7
 FADER: R7, R6, ~, R1, F=R, F1, ~, F6, F7
 EQ(Equalizer) Setting: OFF, CLASS, ROCK, POP, FLAT
 Loudness: LOUD ON/OFF
 DX/LOCAL: Enables or disables the local broadcast mode (LOCAL).
 Stereo/Mono: Switches between MONO and STEREO reception mode for radio frequencies.
 BEEPON/OFF:Enables or disables the "BEEP" signal to confirm use.
 CLOCK Settings: Ratate the VOL knob clockwise to adjust the minutes.
 Rotate the VOL knob counterclockwise to adjust hours

Display System informationPress and hold the **DISP** button to switch the display information, system time and playing source.

Mute On/Off

In power on mode, briefly press the MUTE button to toggle mute on or off.

Insert a USB stick with MP3/WMA musics into the USB port, it will start playback The USB port also support USB charging, the charging ability is 5V 1A

Front 3.5mm AUX Input Jack

Push the **RESET** button with a thin object with a pointed end to reset the unit. This function may be used when the LCD does not display normally or sound is distorted, or when an of controls are disabled

PAK104 PA Microphone Operation

This unit supports the (optional) PAK104 microphone. To operate the PA micropress the PTT thumb button on mic to activate and release to deactivate. PA will override all other source selections of the radio

PA Volume is adjustable on mic with the slide control. PA volume is independent of radio volume setting

Auxiliary Operation

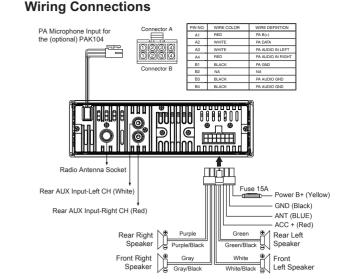
It supports auxiliary input through 3.5mm AUX IN jack in the front or RCA socket in the rear, connect other music player such as MP3 player,CD player etc. with MB450PA through an audio cable

Press the SRC button on the front panel to select "AUX IN-F" audio-in socket on the front panel.

Press the SRC button on the front panel to select "AUX IN-R".

AUX IN-R is for audio content with a audio auxiliary input RCA connector.

Do not use the front AUX IN jack and the audio auxiliary input RCA connector at the same time, otherwise, it may not work properly.



Connect all wiring harness and slide the head unit into the mounting



Installation

collar until it clicks into place.

- +12V DC Negative Ground.
- Only support speakers of 4 ohms or above.

Radio Operation

Change Bands

In radio mode, shortly press the BAND/AS button to switch between the FM1(F1), FM2(F2), FM3(F3) and AM1(A1), AM2(A2) bands.

To Store / Recall Preset Stations The radio can be stored 6 preset stations for each band (FM1, FM2, FM3, AM1 and AM2) for atotal of 30 preset stations.

- To memorize a station: Press and hold the desired preset buttons (1-6) to save a radio station. - To recall a preset station:

Briefly press the respective station button (1-6) to recall the corresponding

preset station.

Manual Tuning

In the radio mode:

Press and hold the ▶ or ◄ button to enter the manual tuning mode.

In manual tuning mode, briefly press the ▶ or ◄ button to search the next or previous frequency step by step. Seek Tuning
In radio mode, press the ➤➤ or ◄◄ button, the automatic search will start, it will search upward or downward for the strong signal radio station within the band. The auto searching will stop once a found.

Automatic Store Preset station (AMS)
Press and hold the BAND/AS button to store 18 FM stations and 12 AM stations automatically.

Bluetooth Operation

Pair and Connect Pair the mobile phone with the device before using it.

- 1. In any mode, prior to pairing and connecting, the BT symbol flashes that stands for no Bluetooth device connected. To begin pairing, enable BT mode on your mobile phone.

 2. When the phone finds the car audio system, the "MB450PA" name will be
- displayed
- 3. Choose the "MB450PA" from the device list to pair and connect with the car audio system. Upon confirming, the BT logo will stop flashing.

 4. When pairing is complete, the mobile phone audio will automatically transfer to the car audio system whenever a call is made or received, or when the mobile phone plays music.

Audio Streaming (A2DP)
The unit supports A2DP (advanced audio distribution profile) wireless streaming audio from your Bluetooth mobile device directly to your head unit. You can also control your music from the front panel of the head unit using AVRCP (audio video remote control profile).

- After pairing, connecting and enabling streaming audio from a compatible mobile device, Press the **SRC** button to enter BT mode and the "BT AUDIO" will be shown
- 2. Press the ▶ or ◄ button to play the next or previous on the mobile
 - 3. Press the ▶II button to pause or resume music playback

Specifications

pressing **SEL** button.

General

Maximum power output: Speaker impedance Unit Dimensions(WxHxD):

Weight: Fuse:

DC 12V Power supply Requirement: 50W X 4CH 4 - 8 Ohm 7.0 X 2.0 X 4.25 inches 1.32 Lb (0.6 kg)

RADIO

AM Frequency Range:

Frequency Range:

Channel step:

Channel step: USB

Usable Audio Formats: **USB** Version: USB Charging: Frequency Response:

вт

S/N Ratio:

BT Profile supports: A2DP & AVRCP Range of frequency: 2.4GHz **PA Microphone** Optional Microphone

Troubleshooting

If you suspect something is wrong, immediately switch power off. Do not use the unit in abnormal condition, for example without sound, or with smoke or foul smell, can cause fire or electric shock. Immediately stop using it and call the store where you purchased it. Never try to repair the unit by yourself because it is dangerous to do

General

1) Car's engine switch is not on. Turn you car's key to ACC or ON.

2) Cable is not correctly connected. Check the connection.

3) Fuse is burnt. Replace fuse.

4) Volume is in mute or minimum. Check volume or mute on/off, adjust volume to a desired level.

5) Sound skips. The installation angle is more than 30°. Adjust the installation angle less than 30°.

6) The operation keys do not work.

The built-in micro- computer is not operating properly due to noise. Press the RESET button to reset the unit.

1) Much noise in broadcasts. Station or signal is too weak. Select other stations of stronger

signal level. 2) The antenna cable is not connected.

Insert the antenna cable firmly into the antenna socket of this car 3) Preset station is reset.

Battery cable is not correctly connected. Connect the battery cable to the terminal that is always live USB

USB is connecting but no sound

a) USB connection is not good. Take it out and insert again. b) USB is damaged or no music file inside Change to another USB, or record music inside it.

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