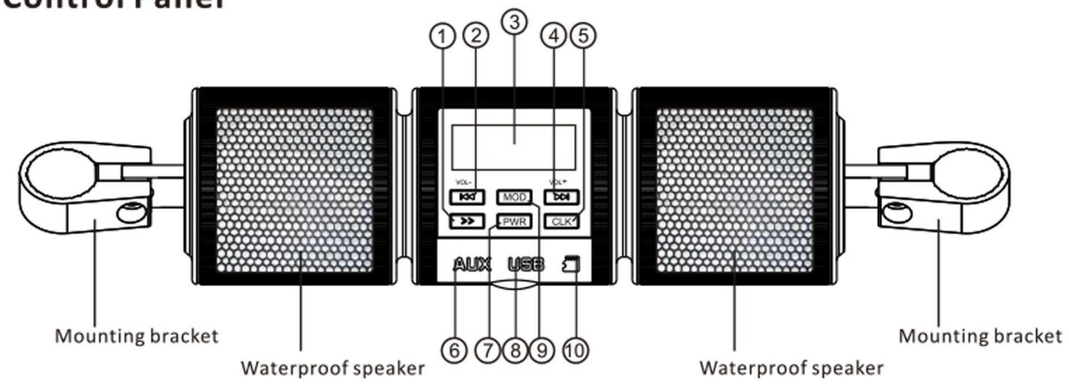
Motorcycle Music Player
User's Manual

Thanks for choosing our product.
This player adopts the latest Bluetooth motorcycle audio system developed by our company, latest Bluetooth V2.1 + EDR technology, built-in digital integrated power amplifier and Hi-Fi 5W full frequency unit. The player has superior appearance, supports USB and TF card, and supports MP3/WMA format. To improve the audio effect, the state-of-art audio processing chip is integrated to provide smooth audio playing.
To achieve the optimal performance of the player, please read this manual carefully and install the player properly. Please keep this manual for future reference.

I. Control Panel



1. AMS/SEL button
2. Prev./VOL- button
3. Display
4. Next/VOL+ button
5. Clock setup button
6. AUX-IN
7. Power switch/Mute button
8. USB interface
9. Mode switch button
10. TF slot

II. Basic Operations

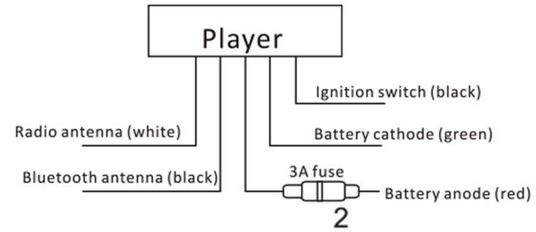
1. AMS/SEL button
1) In radio state, press and hold this button to scan and save radio channels automatically.
2) When channels are scanned and saved automatically, press this button to select the saved channels.
2. Prev./VOL- button
1) In radio state, press this button to select previous radio channel, press and hold it to turn down the volume.
2) In MP3 state, press this button to select previous track, press and hold it to turn down the volume.
3) When it is connected to the cell phone via Bluetooth, press this button to select the previous track on the cell phone, press and hold it to turn down the volume.

3. Display
Display the radio frequency and current playing info.
4. Next/VOL+ button
1) In radio state, press this button to select next radio channel, press and hold it to turn up the volume.
2) In MP3 state, press this button to select next track, press and hold it to turn up the volume.
3) When it is connected to the cell phone via Bluetooth, press this button to select the next track on the cell phone, press and hold it to turn up the volume.
5. Clock setup button
In power on state, press the CLK button to show the clock, which exits in eight seconds automatically; press and hold CLK for two seconds to show “00:” digits (24-hour) and use the Prev./Next button to adjust the hour; press CLK again to switch to minute digits and use the volume buttons to adjust the minute; finally, press and hold the CLK button to confirm the time, and press it again to exit.
6. AUX-IN
Used to input external audio signal
7. Power switch/Mute button
When the power is connected, press this button to turn on the player, press and hold it to turn off the player.
In power on state, press this button to turn off the sound, and press it again to resume the sound.
(Note: In radio state, press this button to pause, and press it again to resume normal playing.)
8. USB interface
Insert a USB flash drive and play the MP3, WMA and WAV music automatically.
9. Mode switch button
In power on state, press the MOD button to switch among radio, USB, SD, AUX and BT mode.
Note: If SD card or USB flash drive isn't inserted, the player will skip the unavailable mode automatically.
10. TF slot

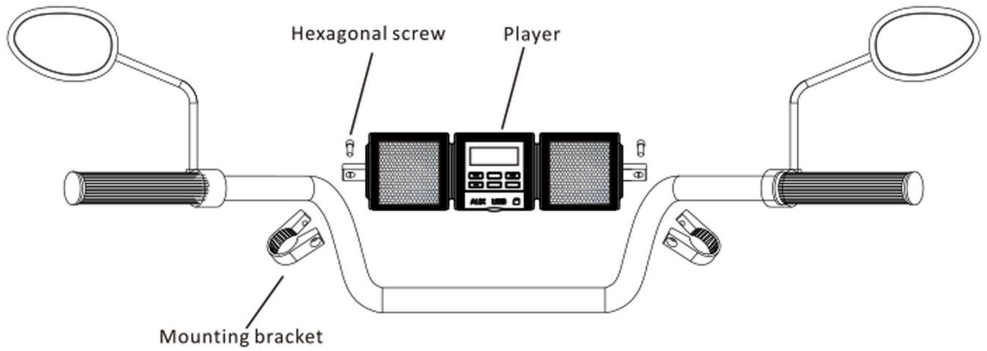
III. Bluetooth Operation

Bluetooth pairing:
1) Turn Bluetooth on the player and the cell phone; scan the player on the cell phone, connect via Bluetooth when MT487 shows on the cell phone.
2) When the player isn't connected via Bluetooth, the BT symbol on the player flashes; when the player is connected via Bluetooth, the BT symbol on the player doesn't flash.
3) When the cell phone has scanned the player and the music player on the cell phone is turned on, it plays via Bluetooth automatically.
4) The default pairing password is 0000. When paired, the player beeps once, and you can start the music player to play via Bluetooth.
5) When exits the Bluetooth, the player beeps twice.

IV. Wiring Diagram



V. Installation Diagram



Please abide by the following guide to use the player properly and avoid accidents:
Tools: Hex wrench and cable tie
1) Before installing, read and understand all steps. Park the motorcycle on hard and flat ground, and shut down the ignition device. Wait for it cooling down.
2) Cover the oil tank and the front fender board with the servicing cover and soft clean blanket.
3) Confirm the position of the mounting fixture, and ensure sufficient space for the audio device.
Remove the hex screws of the two mounting brackets with a hex wrench, break apart the mounting brackets, put on the handlebars as shown in the figure, and fix with hex screws.
4) Sit on the motorcycle, and adjust the audio device to desired position.
Note: The speakers have directions, and should face to the head of the rider to achieve optimal effect.
5) Turn the handlebars left and right to the limit, and ensure that there is sufficient space between the audio device and the oil tank, and between the instrument panel and other accessories.
6) Adjust the audio device to keep sufficient space from the fixture as required.
7) Tightening the screws of the mounting brackets.
8) Arrange the wires of the audio device to the neck along the handlebars; fix the wires with provided cable tie.
9) Remove the seat and/or side covers (depending on model) and remove the battery.
10)The green is the grounding wire, which should be connected to the negative terminal of the battery. The red is the power wire, which should be connected to the positive terminal of the battery.The black is Ignition switch.
11) Fix the battery terminals and install the battery.
12) Arrange the power wires under the oil tank along the handlebars. Fix the wires with cable tie and keep away from torsion points, extreme temperature and moving parts.
13) Please refer to the Wiring Diagram and connect the wires properly.
14) Bind the remaining wires with the cable tie, and keep away from torsion points, extreme temperature and moving parts. Fix the Bluetooth antenna on selected position with the cable tie.
15) The audio device is installed properly.

VI. Technical Parameters

FM
Frequency range: 87.5~108MHz
Intermediate frequency: 10.7MHz
Harmonic distortion (at 1 KHz): ≤ 5%
Frequency response: 100Hz~10KHz±6d
Power amplifier
SNR: 40dB
Noise sensitivity: ≤ 37dB
Player
SNR: 40dB
Channel isolation (at 1 KHz): 23dB
Output: Speaker output
Speaker impedance: 4~8Ω
Maximum active output power: 3W×2
Maximum output power: 5W×2
Power supply: DC12V

VII. Troubleshooting

Troubles	Reasons	Solutions
Fail to start the machine	fuse burnout of power supply	replace the fuse of the same specifications to the machine
Functional failure	improper operations on processor due to other factors	Restart the machine after shut it down for 1 minute
Bad effects of receiving stations	1.Radio antenna not reaching out 2.Imperfect earth of antenna	Recheck the connecting conditions of antenna and earth wire
Fail to read SD Card or U disk	1.Inserted backward or damaged 2.USB extended wire damaged when not reading U disk 3.Deceitful U disk or SD card used	1.Insert correctly, replace SD card or U disk 2.replace USB extended wire 3.replace with authentic U disk or SD card

We are sorry that
Amendment to the user manual and product appearance design might be undertaken without prior notification due to the continuous improvement of products, and illustration in the manual might be different from the actual objects due to limited printing conditions.
Any amendment to the product without our company's consent might cause negative effects to users.

FCC Caution.

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.

Any Changes or modifications 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.

*RF warning for Portable device:

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