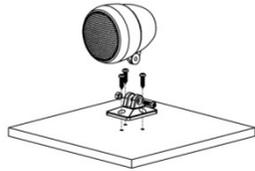


8. Speaker Installation



Handlebar Installation:

1. Select mounting clamp **F** from the package.
2. Peel one side of twin adhesive stickers **G** and adhere it to the surface of the speaker mount and then peel off the other side of the stickers.
3. Place the speaker in the correct position so the screw hole of the speaker is in line with the mounting hole of the clamp and secure the installation with a screw **L** (4x15 mm) and nut **P**.
4. Clamp the speaker mount around the handlebar.
5. For one-inch handlebar, fold the C-ring gasket **K** (see parts list) around the handlebar; for 7/8 inch handlebar, place an additional C-ring gasket **J** inside C-ring **K** to achieve a tight mounting.
6. Slide the C-ring into the speaker mount. This will absorb shockwaves from the motorcycle.
7. Tighten the clamp around the handlebar with a screw **M** (4x25 mm), nut **P** and a nylon spacer **R** in between. The nylon spacer **R** is designed to absorb vibration and shockwaves. It reduces the chance of the clamp breaking.
8. Adjust the projecting angle of the speaker and tighten any loose screws.



Standard Flat Surface:

1. Mount plastic bracket **E** on the chosen flat surface with the screws **Q** (4x12 mm) provided in the package.
2. Hold the speaker in position and secure the mount with a screw **L** (4x15 mm) and nut **P**.
3. Adjust the projecting angle of the speaker and tighten any loose screws.

Figure 4. Overall demonstration of loudspeaker assembly process.

Mirror Side Installation:

1. Select mounting bracket **H** and **I** from the package and disassemble the side mirror.
2. Select the appropriate mounting style of the bracket. To position the speakers at a higher level see diagram A; to position the speakers at a lower level see diagram B.
3. Hold the speaker in position and secure the mounting to the holder with a screw **L** (4x15 mm) and nut **P**.
4. Screw the holder to the stainless steel bracket with a **N** (4x8mm) Truss Head screw and adjust the angle.
5. Reassemble the side mirror on the stainless steel bracket as shown.
6. Secure a tight mount to prevent detachment of the bracket or the mirror.
7. Adjust the final projecting angle of the speaker.
8. Check for any loose screws and nuts.

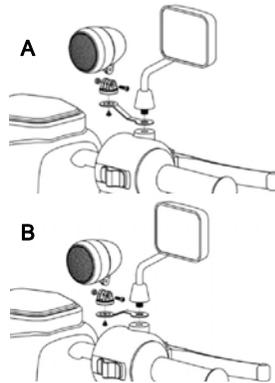


Figure 5. Overall demonstration of loudspeaker assembly process on a mirror mount.

9. System Operating Guide

Bluetooth Operating Guide:

1. Switch on the power by operating the volume control. Adjust the control knob so the indicator is at the 10 o'clock position.
2. Turn on your smart phone or other device and enter Bluetooth device search window.
3. "Bluetooth Audio" should appear in the list of Bluetooth devices. If it does not appear, repeat steps 1 and 2.
4. Select and connect to "Bluetooth Audio".
5. The audio system is now ready to play any music from your smart phone or device.

3.5mm Audio Operating Guide

1. Switch on the power by operating the volume control. Adjust the control knob so the indicator is at the 10 o'clock position.
2. Turn on your smart phone and connect the phone to the audio system via your own audio cable with 3.5mm input wire.
3. The audio system is now ready to play any music from your smart phone or device.

10. Troubleshoot

1. If a password window pops up while attempting to connect to "Bluetooth Audio", enter the following four digit password: "8888".
2. Turning off the audio system will disconnect the Bluetooth device automatically. The procedures in the operating guide must be applied each time when reconnecting to the device.
3. Bluetooth function is automatically disabled when 3.5mm audio connection is used to prevent false multiple connections. To switch back to Bluetooth connection option, simply remove the 3.5mm input wire and your audio device should automatically reconnect to the Waterproof Bluetooth Audio System.

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Installation Manual



Waterproof Bluetooth Audio System

Motorcycle / ATV Specialized Outdoor Audio System

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1. Introduction

Our Waterproof Bluetooth Audio System provides everything required to setup a complete audio system. It is specially designed to provide the maximum outdoor music entertaining experience to the user. It offers 4 different user-friendly means of installation and high quality music experiences. This audio system can be installed on a variety of vehicles, including motorcycles, ATV, UTV, most watercraft and scooters. The Waterproof Bluetooth Audio System operates on Bluetooth version 2.1 with Enhanced Data Rate (EDR) technology and it is compatible with Bluetooth audio devices such as Smartphone, iPad, PDA, GPS, MP3 player, and tablets. The Waterproof Bluetooth v2.1 + EDR together offers more efficient audio transmission with longer wireless operating range (operates up to 100 feet/33 meters). An alternative to wireless connection is with the classic 3.5mm AUX input wire connection (cable not included).

2. Applications

Our Waterproof Bluetooth Audio System is built to withstand tough challenges in different outdoor/ marine environments. They can be installed at locations with high humidity and high chance of water splash. Vehicles suitable for installation include:

- > Motorcycle
- > All Terrain Vehicle (ATV)
- > Recreational Vehicle (RV)
- > Boats/ Yachts
- > Snowmobile
- > Utility Task Vehicle (UTV)
- > Personal Watercraft (PWC)
- > Golf Carts

3. Safety Precautions

- Read the manual before installation. It contains important information for all users.
- Turn off the main electricity supply before beginning the installation.
- For electric drill, ensure it is connected to the ground properly and the area is free of any liquid.
- If any problem occurs during the installation, please contact your local dealer for advice before proceeding.

4. System Specifications

Bluetooth Amplifier

- Class D Amplifier
- Input Voltage: 10V ~ 26VDC
- Output Voltage: 20W/CH, RMS 12VDC; 30W/CH, RMS 24VDC
- Power Consumption: 4 ohms / 3A 12VDC; 4 ohms / 5A 24VDC
- SNR: 98 dB / 12VDC, 102 dB / 24VDC
- Low THD+N < 0.15%
- Operating Temperature: -20°C ~ +100°C
- Bluetooth: V2.1+ EDR Class 2
- Bluetooth Transmission Range: 100 feet (33 meters)
- Bluetooth / AUX available
- Protection: Thermal and short circuit protection with auto recovery feature.
- IP68 rating
- CE/FCC/RoHS certified

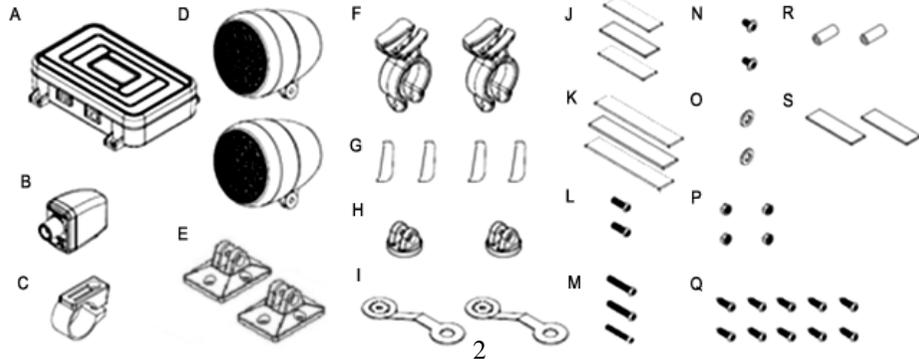
Loudspeakers

- 2.5" Waterproof Loudspeaker
- Power Handling: RMS 20W, MAX 40W
- Average Sensitivity (1w/1m): (2.5" speaker) 83 ± 2dB
- Maximum SPL 1m: (2.5" speaker) 103 ± 2dB/20W
- Frequency Response: 270Hz ~ 18KHz
- Operating Temperature: -20°C ~ +100°C
- Impedance: 4 ohms
- IP65 rating
- RoHS compliant

5. Parts List

Please check the parts and their quantity before installing your audio system. Contact your local dealer if anything is missing as soon as possible.

Item	Qty	Description	Item	Qty	Description
A	1	Amplifier	K	3	C-ring EPDM gasket, 82Lx15Wx1.5H mm
B	1	Volume control	L	2	Pan head, Phillips, type C, 4x15 mm
C	1	Volume control clamp	M	3	Pan head, Phillips, type C, 4x25 mm
D	2	High fidelity speakers	N	2	Truss head, Phillips, type C, 4x8 mm
E	2	Brackets (surface mount)	O	2	Washer 4 x 9.5 x 0.8 mm
F	2	Clamps (handle bar mount) 1" and 7/8"	P	4	Speaker nuts, 4x7mm
G	4	Twin adhesive sticker	Q	10	Pan head, Phillips, type A, 4x12 mm
H	2	Speaker mounting bracket	R	2	Nylon spacer
I	2	Stainless steel brackets	S	2	Hook and Loop
J	3	C-ring EPDM gasket, 50Lx15Wx1.5H mm			



6. Select the Best Location for Mounting

Be aware that the Waterproof Bluetooth Audio System can adapt different mounting styles and each follows a separate set of installation instructions. The high fidelity speakers are designed to stand on top of a strong surface. All speakers are intended to be installed into a sturdy/ surface panel.

The surface/panel you select should have the appropriate strength to hold the unit firmly in place after installation. Apart from the strength, consider the effects of shock, vibration, shear pressure and movement in different directions have on the mounting surface/panel. If the surface is not sturdy enough, the housing may be dislocated from its original position and it may be damaged. If you are uncertain about the location of your choice, contact the local dealer for advice.

7. Amplifier Installation

Read the following instructions carefully before proceeding. If you are unfamiliar with wiring electronic devices, consult your local dealer or contract professionals. False wiring could damage the amplifier and the rest of the audio system. Hook and loop S has been included.

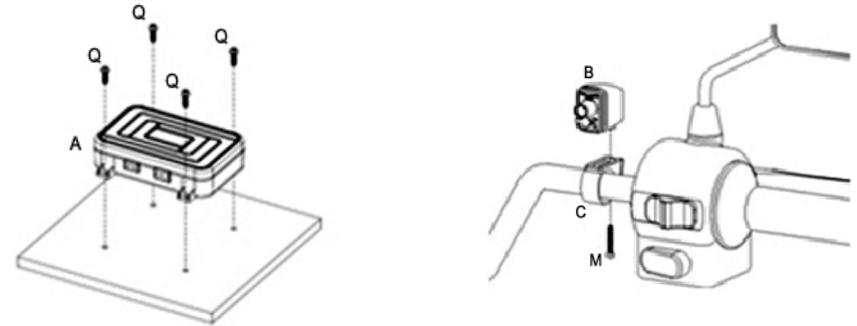


Figure 2. Amplifier and volume control installation quick guide.

Select a stable and sturdy surface before beginning the process. Mount the amplifier unit as illustrated in the diagram (above left). For reference to volume control installation, please see above right diagram. Ensure the correct parts are used during installation. For the parts list, please see *Parts List* on page 2. Test the audio system by playing music from your audio device. If the red light comes on then rotate the volume control knob to adjust the volume. Contact your local dealer if the system fails to function.



Figure 3. Wiring diagram for Waterproof Bluetooth Audio System. Please note that the wiring plan is the same for both Bluetooth and 3.5mm AUX users.

1. Red wire - Audio amplifier power (+). Connect the red wire directly to a positive (+) power source.
2. Black wire - Audio amplifier ground (-). Connect black wire to a negative (-) source.
3. Grey wire - Connect the grey wire to the positive (+) terminal of the right speaker.
4. Grey/White wire - Connect the grey/white wire to the negative (-) terminal of the right speaker.
5. White wire - Connect the white wire to the positive (+) terminal of the left speaker.
6. White/Black wire - Connect the white/black wire to the negative (-) terminal of the left speaker.
7. Black cord - Connect amplifier and volume control through a black 3.5 mini plug waterproof cord.