



Bodypack Digital Wireless Transmitter DWM-881

User Manual



Thank you very much for selecting DWR-882 Digital Wireless System. It is recommended to read this manual carefully before using to make optimum use of your equipment.

DWR-882 Digital Wireless System, based on the concept of designing for modern lifestyle, is suitable for all kinds of indoor activities, such as school, company, organization and so on. All systems are featuring ergonomic design combine smooth curves for a sophisticated and elegant look.

1. Product Contents

- 1.1 DWR-882 Digital Wireless Receiver
- 1.2 DWM-880 Digital Wireless Handle Microphone(Optional)
- 1.3 DWM-881 Bodypack Digital Wireless Transmitter(Optional)
- 1.4 MUD-806 Headset Microphone (Optional)
- 1.5 MDM-863 Tie-clip Microphone (Optional)
- 1.6 DC 7.5V Power adapter
- 1.7 ϕ 6.3mm M-XLR/M-XLR Cable
- 1.8 User's Manual

2. Parts Identification and Function

2.1 DWR-882 Digital Wireless Receiver (as shown in figure 2.1)

- (1) POWER SWITCH: Switches on/off the Receiver (with status LED).
- (2) MIC 1 CONNECTING LED: Lights up when microphone 1 is connected.
- (3) MIC 2 CONNECTING LED: Lights up when microphone 2 is connected.
- (4) VOLUME CONTROLLER 1: Controls the output volume of microphone 1.
- (5) VOLUME CONTROLLER 2: Controls the output volume of microphone 2.
- (6) ANTENNA: Receives signals from the microphone. The angle of the antennas can be adjusted leftward, rightward or backward manually.
- (7) RESET BUTTON 1: Resets microphone 1 (FOR TECHNICIANS USE ONLY).
- (8) ϕ 6.3mm FEMALE JACK: Connects to the output of amplifier.
- (9) RESET BUTTON 2: Resets microphone 2 (FOR TECHNICIANS USE ONLY).
- (10) DC POWER RECEPTACLE: Connects DC adapter, and the polarity of central pole is positive.

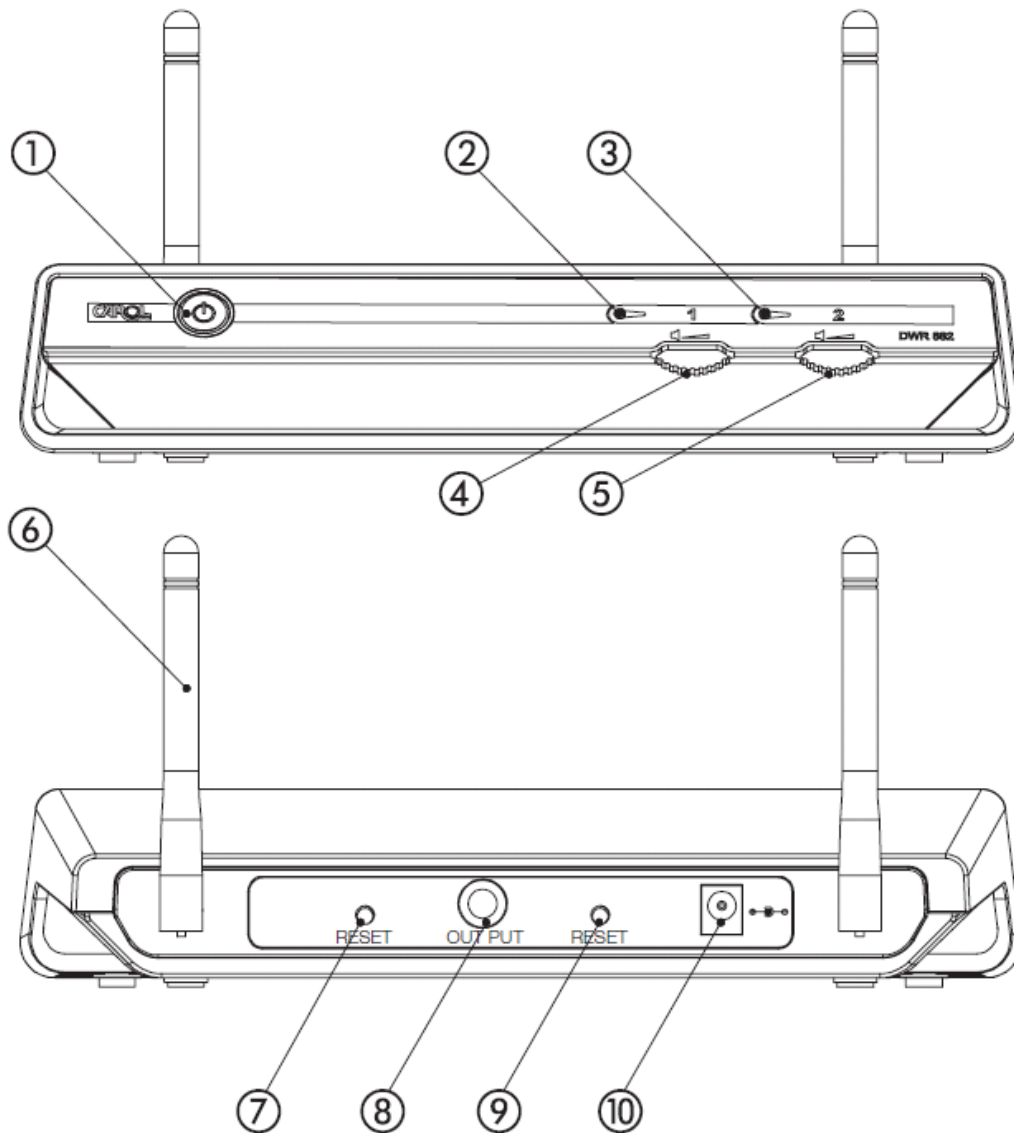


Figure 2.1

2.2 DWM-880 Digital Wireless Handle Microphones (as shown in figure 2.2)

- (1)BALL GRILLE: Protects the capsule, and the enclosed windscreen can reduce pop noises effectively.
- (2)POWER SWITCH: Switches on/off the microphone (with status LED).
- (3)HOUSING: For easy handling the microphone and protects the wireless transmitting PCB inside.
- (4)LOGO PLATE: Protects the antenna and strengthens the transmitting effect. Do not cover this area while using.
- (5)BATTERY COVER: Protects batteries and keeps them from falling off.
- (6)BATTERY COMPARTMENT: Accommodates two AA batteries.
- (7)CHANNEL SWITCH: Changes the channel (total 16 channels) to eliminate possible interferences.

(8)RESET BUTTON: Resets the Transmitter signal (FOR TECHNICIANS USE ONLY).

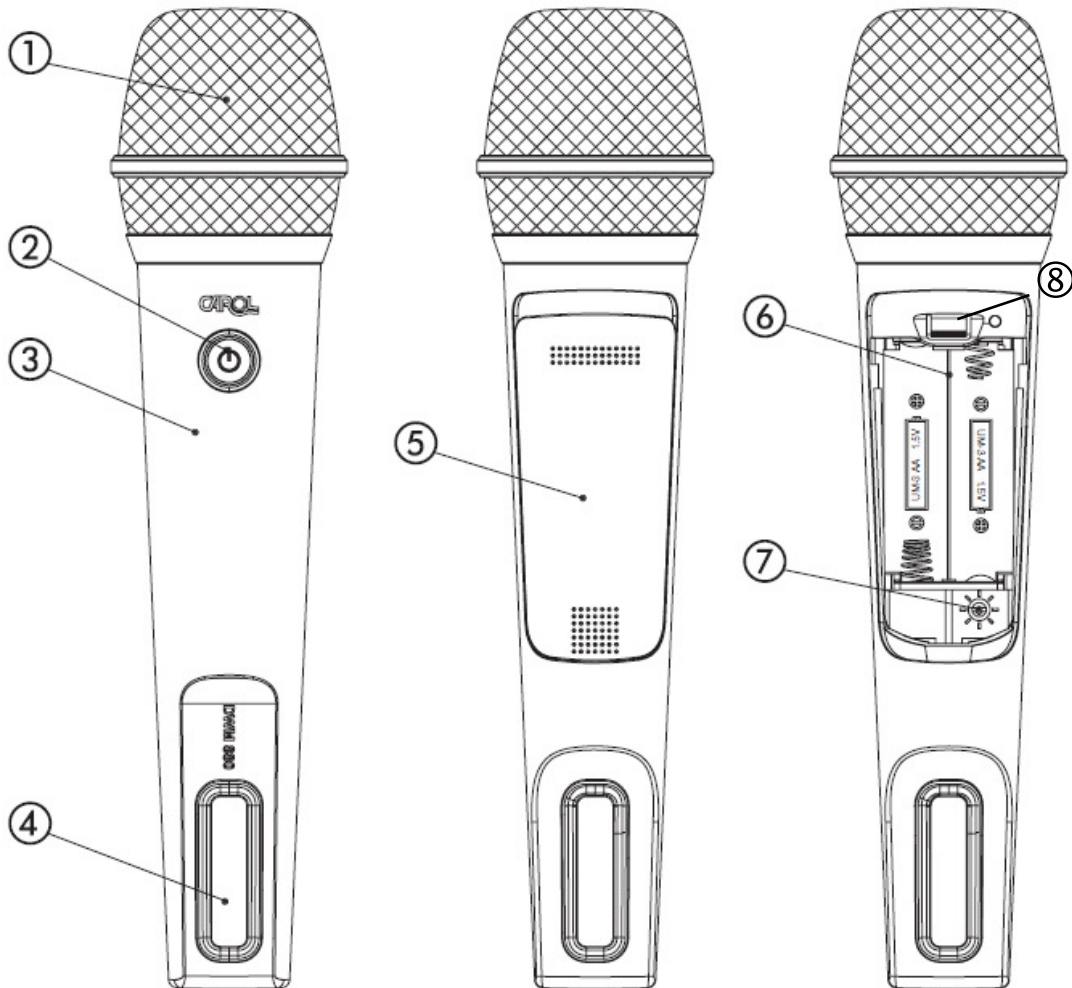


Figure 2.2

2.3 DWM-881 Bodypack Digital Wireless Transmitter (as shown in figure 2.3 and 2.4)

- (1) ϕ 3.5mm EARPHONE JACK: Connects head-worn or lapel condenser microphone.
- (2) TRANSMITTER CASING: Protects the wireless transmission PCB inside.
- (3) VOLUME CONTROLLER: Controls the output volume to avoid feedback/howling.
- (4) POWER LED: The status LED will light up when power on.
- (5) POWER SWITCH: Switches on/off the Transmitter's power and mute mode.
- (6) BELT-CLIP: For attaching the Transmitter to the user's clothing(eg. belt, waistband).
- (7) BATTERY COVER: Protects batteries and keeps them from falling off.
- (8) BATTERY COMPARTMENT: Accommodates two AA batteries.
- (9) RESET BUTTON: Resets the Transmitter signal (FOR TECHNICIANS USE ONLY).
- (10) CHANNEL SWITCH: Changes channels (total 16 channels) to eliminate possible interferences.

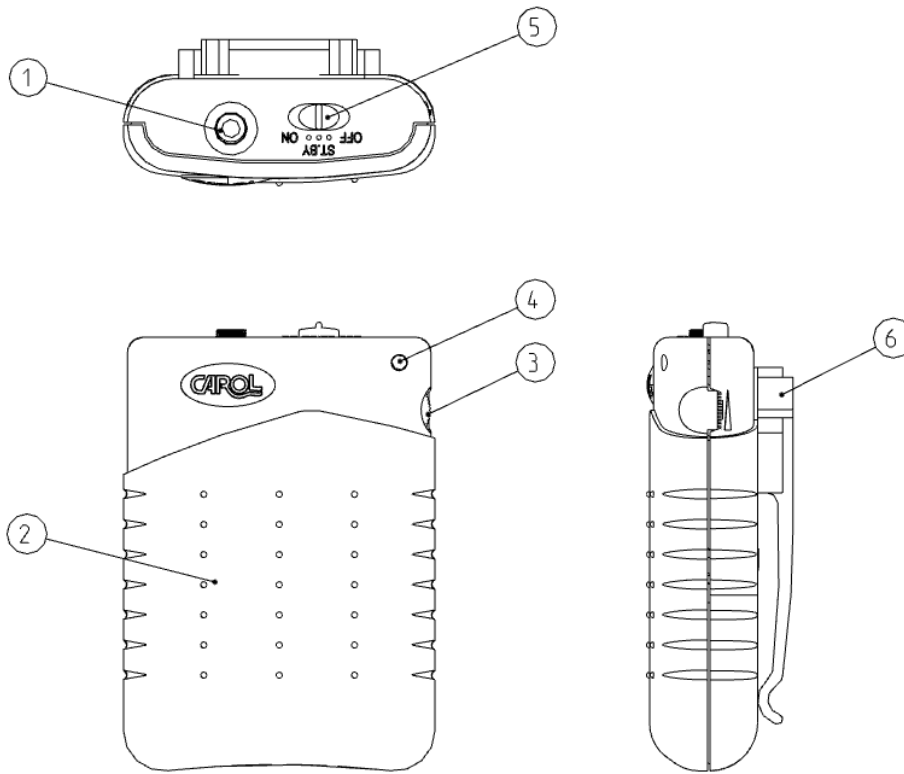


Figure 2.3

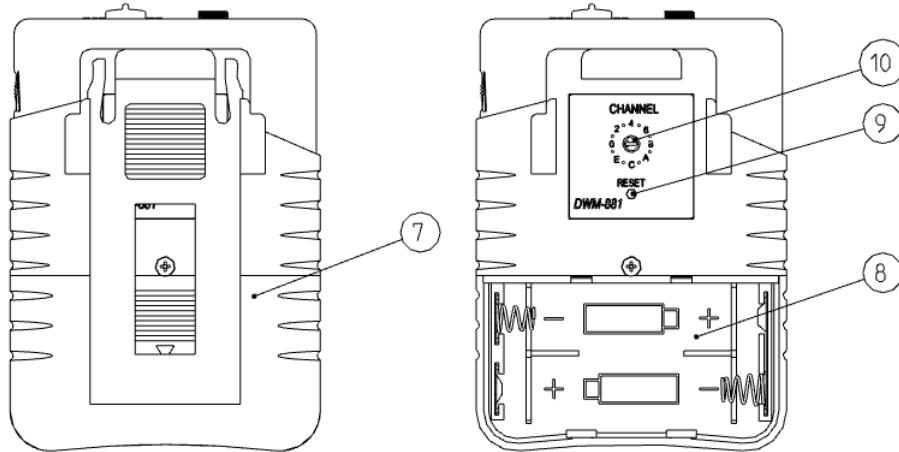


Figure 2.4

2.4 MUD-806 Headset Microphone. (as shown in figure 2.5)

- (1) \varnothing 3.5mm STEREO PLUG: Connects Bodypack digital wireless transmitter.
- (2) CONDENSER MICROPHONE: Uni-directional microphone capsule.

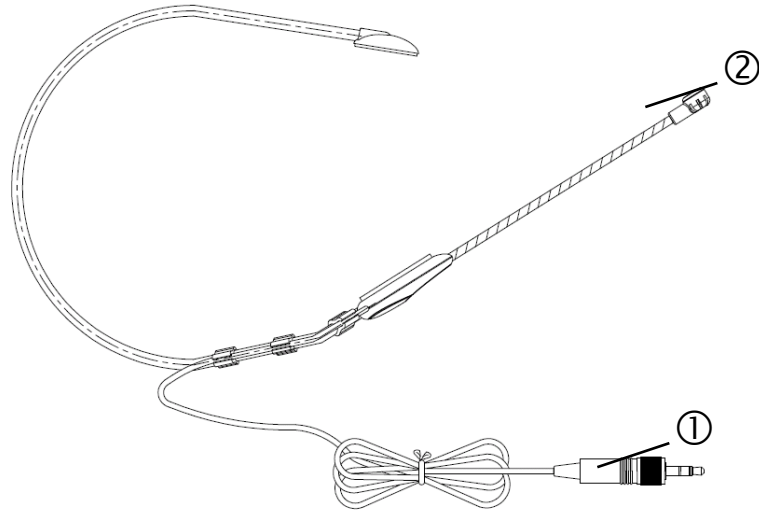


Figure 2.5

2.5 MDM-863 Tie-clip Microphone. (as shown in figure 2.6)

- (1) CONDENSER MICROPHONE: Omni-directional microphone capsule.
- (2) \varnothing 3.5mm STEREO PLUG: Connects Bodypack digital wireless transmitter.

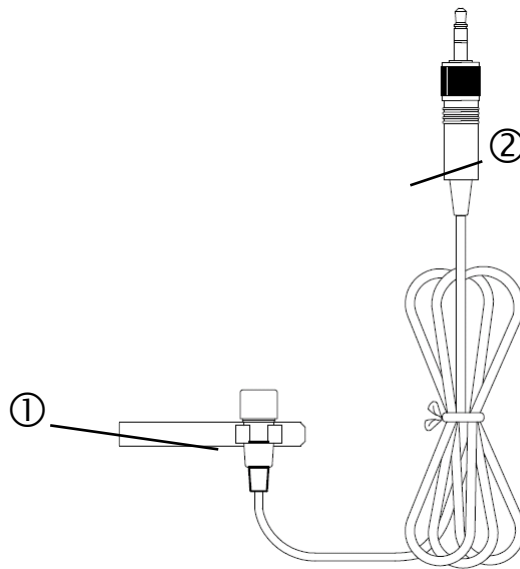


圖 2.6

3. Receiver Operating Instruction

- 3.1 Plug the supplied DC adapter to a wall outlet, and then connect the DC adapter to the power receptacle on Receiver.

- 3.2 Press the Receiver's power switch to turn the power on, and the status LED will light up green, it indicates the Receiver is on.
- 3.3 If a feedback noise appears when the volume is too high or the microphone is too close to the speaker, turn the volume down.

4. Wireless Handheld Microphone Operating Instruction

4.1 Turning ON

4.1.1 Press the microphone's power switch to turn the power on, and the status LED will light up green. When the microphone connecting LED on the Receiver lights up red, it indicates the microphone signal is been received by the Receiver.

4.1.2 For best result, keep the microphone to the sound source in between 2 to 5 cm.

4.2 Turning OFF

Keep pressing the microphone power switch for 2 to 3 seconds till the status LED goes off. When the microphone is been turned off, the microphone connecting LED on the Receiver will also go off. Press the power switch on the Receiver till the status LED goes off.

4.3 Replacing Batteries

4.3.1 When the status LED keeps blinking after the microphone is on, it indicates the battery energy is running low, so please replace the batteries.

4.3.2 As shown in figure 4.1, press on where circle 1 indicates and push the battery cover forward to the end, then remove the cover (CAUTION: To avoid injury, do not place your fingers at where circle 2 indicates when pushing the cover).

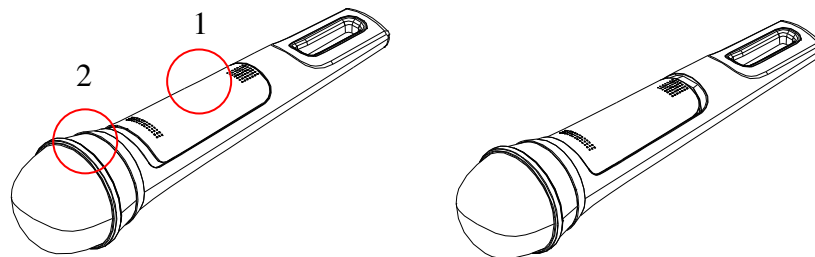


Figure 4.1

4.3.3 Insert two AA batteries in the battery compartment according to the polarity marks.

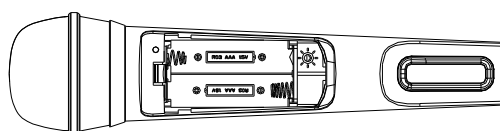


Figure 4.2

4.3.4 Close the battery cover. Place the cover on top front of the battery compartment, then press on where circle 3 indicates and push the battery cover downward to the end (CAUTION: To avoid injury, DO NOT place your fingers at where circle 4 indicates when pushing the cover).

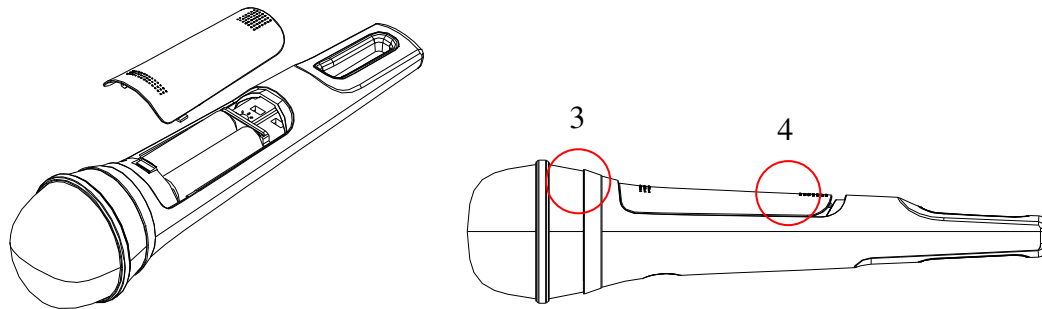


Figure 4.3

4.4 Change the Digital Wireless Microphone Channel

- 4.4.1 When using wireless microphone, there might be interferences from the signals transmitted by another wireless microphone or other 2.4G wireless appliances near by. These disturbances can be solved by selecting a different channel.
- 4.4.2 When changing the channel, it is not necessary to turn the power off. Open the battery cover, and the channel switch is located next to the battery compartment. There are 8 channel scales on the switch (as shown in the figure 4.4), and another 8 channels can be selected in between scales.
- 4.4.3 Fitting a slotted screwdriver into the slot, and rotate the switch clockwise or counterclockwise to a desired channel. When a new channel is selected, the microphone connecting LED on the Receiver will blink once, which indicates the microphone and Receiver are reconnected.
- 4.4.4 To avoid interference and gain the best result, microphone 1 and 2 should be 8 channels apart. If not applicable, keep at least 2 channels apart.

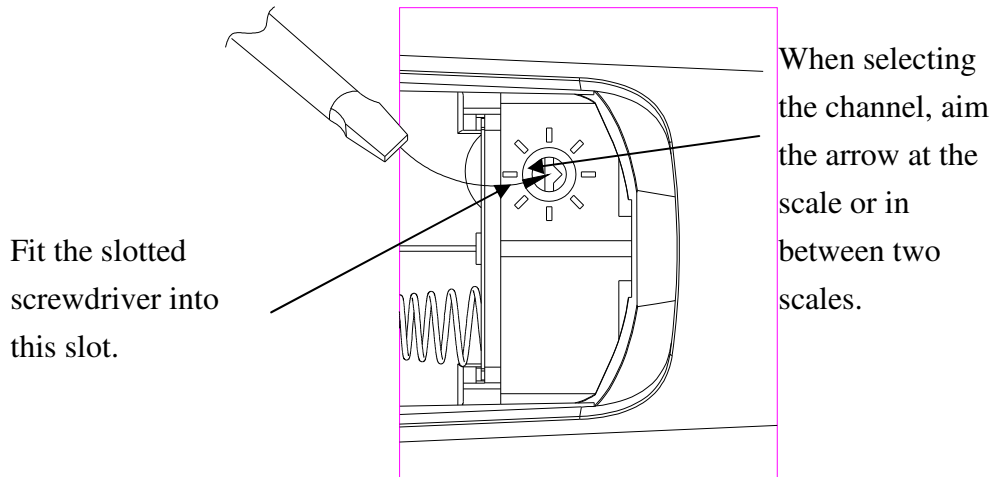


Figure 4.4

5. Bodypack Wireless Transmitter Operating Instruction

- 5.1 Connect a head-worn or lapel condenser microphone to the ø3.5mm Earphone Jack on the Transmitter.
- 5.2 Push the Power Switch on the Transmitter to ON as shown in figure 5.1, and the Power LED will light up red, it indicates the Transmitter is on. When the microphone connection status LED on the Receiver lights up red, it indicates the Receiver has already picked up the signals from Microphone, so you can now talk to the microphone.

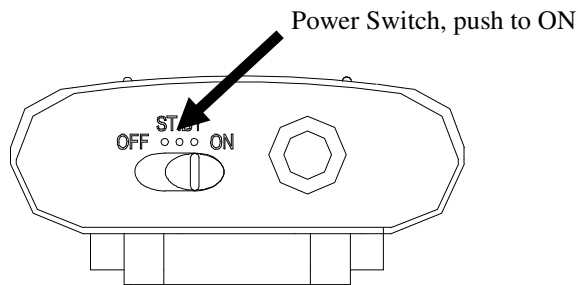


Figure 5.1

- 5.3 If a feedback noise appears when the volume is too high or the microphone is too close to the speaker, turn the volume down.
- 5.4 When mute is needed, push the Power Switch on the Transmitter to ST.BY position as shown in figure 5.2. To unmute the audio signal, simply push the Power Switch back to ON position.

Power Switch, push to ST.BY

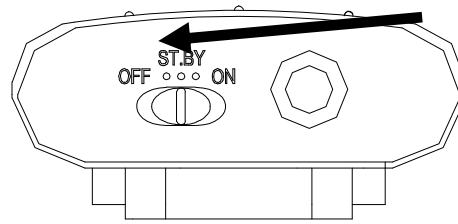


Figure 5.2

5.5 Push the Power Switch on the Transmitter to OFF as shown in figure 3.3, and the Power LED will go off, so as the red light on the Receiver's microphone connection status LED.

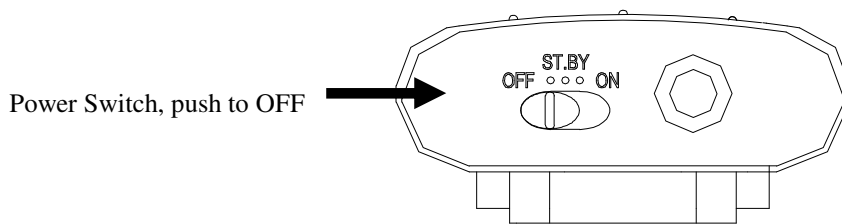


Figure 5.3

5.6 Replacing Batteries

5.6.1 When the status LED keeps blinking red after the microphone is on, it indicates the battery energy is running low, so please replace the batteries.

5.6.2 First step is to remove the Belt-Clip. As shown in figure 5.4, press on where circle 1 and 2 indicates to remove Belt-Clip.

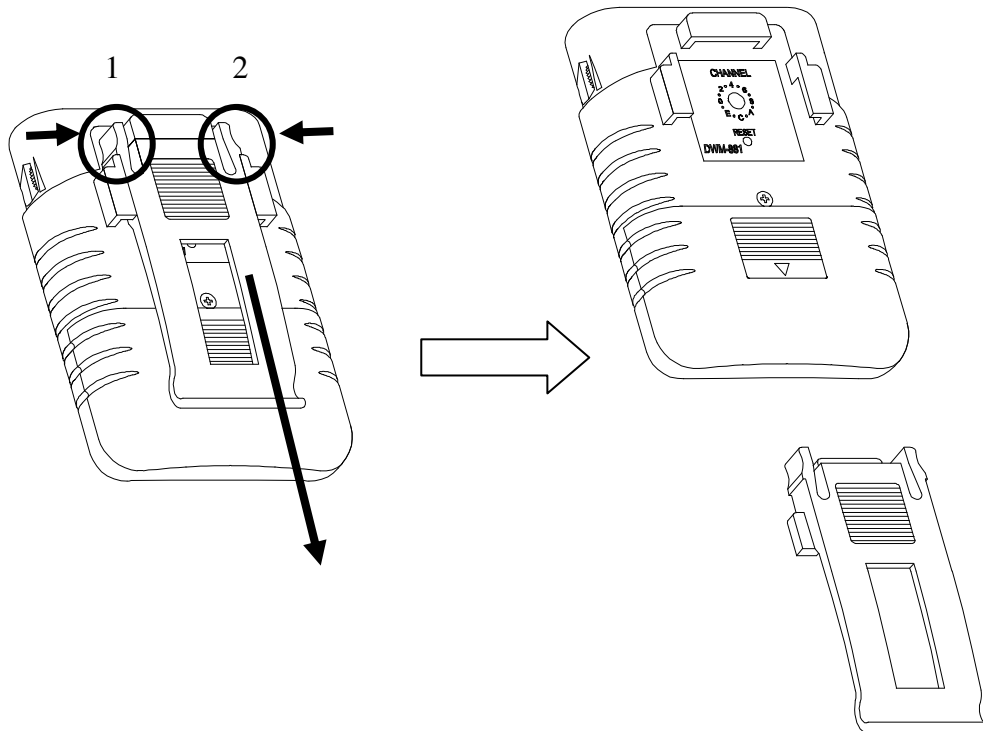


Figure 5.4

5.6.3 As shown in figure 5.5, press on where circle 3 indicates and push the Battery Cover downward to the end, then remove the cover.

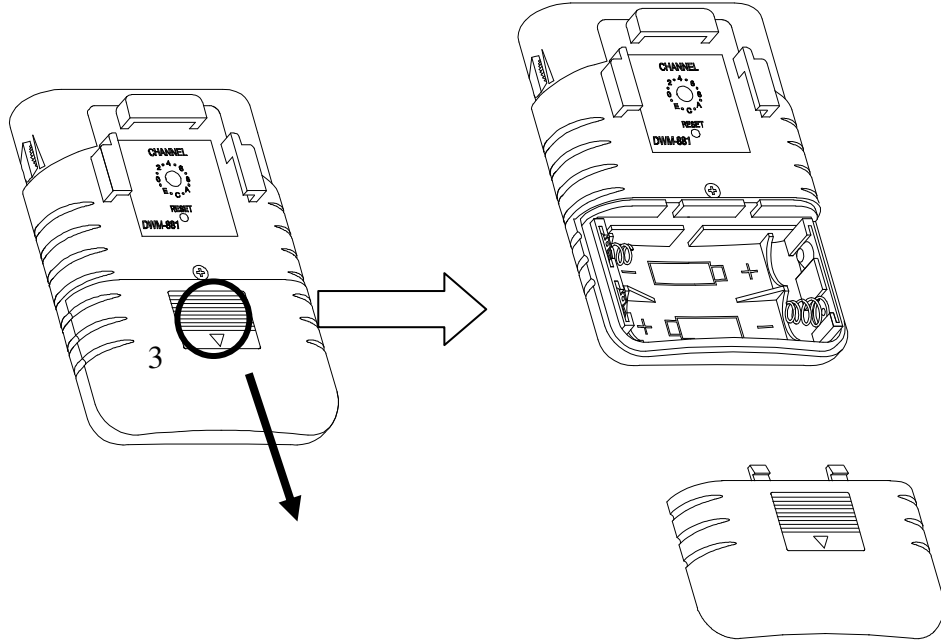


Figure 5.5

5.6.4 Insert two AA batteries in the Battery Compartment according to the polarity marks.

5.6.5 Close the Battery Cover. As shown in figure 5.6, press on where circle 3 indicates and pushes upward in the direction of the arrow till the upper edge of the Cover touches the body casing.

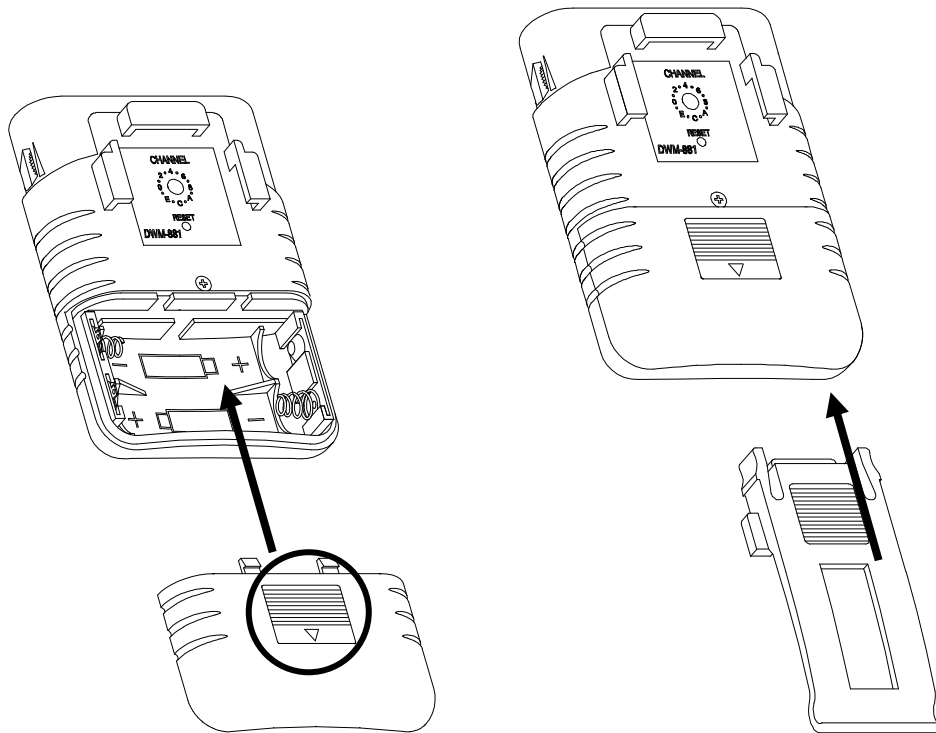


Figure 5.6

5.7 Change the Digital Wireless Transmitter Channel

5.7.1 When using Digital Wireless Transmitter, there might be interferences from other devices that are using neighbor frequencies or from other 2.4G wireless appliances nearby. These disturbances can be solved by selecting a different channel for the Transmitter.

5.7.2 First step is to remove the Belt-Clip.

5.7.3 As shown in figure 5.7, fitting a slotted screwdriver into the slot, and rotate the switch clockwise or counter-clockwise to a desired channel. Each turn clicks into place represents a channel is been selected

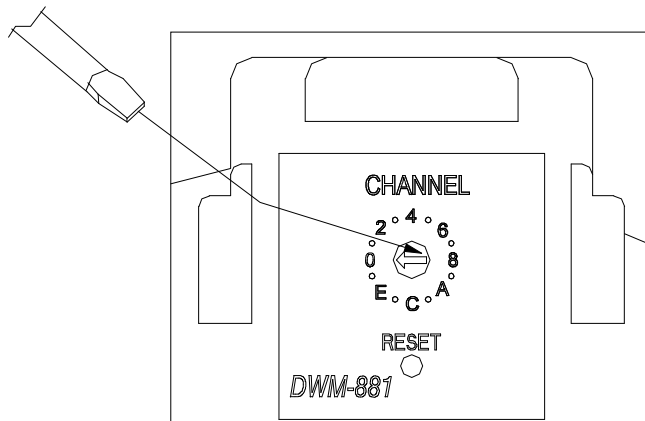


Figure 5.7

6. Pairing Instructions (Only conducted by installers and service technicians)
 - 6.1 Please plug in the power adapter to turn on the DWR-882 Receiver, and connect to an amplifier with the $\phi 6.3$ signal cable.
 - 6.2 Please install batteries on the DWM-880/DWM-881.
 - 6.3 Press reset button on Receiver, the LED will blinking, and you will hear continuous beeps simultaneously.
 - 6.4 Press reset button on Handheld Microphone/ Wireless Transmitter, the LED will blinking.
 - 6.5 When the LED on Handheld Microphone/ Wireless Transmitter blinks simultaneously with LED(A CH or B CH) on Receiver, the program performs pairing automatically and it takes about 15 seconds. When the pairing is completed, you will hear a long beep, then LEDs will constantly on, now you have completed the pairing process successfully.
 - 6.6 If the paring failed, please repeat steps 6.3~6.4 , and speed up the process.

7. Troubleshooting
 - 7.1 No sound
 - 7.1.1 Check if the power to Digital Wireless Receiver is well connected.
 - 7.1.2 If the status LED is not lit when the Digital Wireless Transmitter/Microphone been switched on, check whether the batteries are properly installed according to the polarity marks or have enough energy.
 - 7.1.3 The transmission range is 20 meters between Digital Wireless Transmitter and Digital Wireless Receiver, so the output audio might be inconsistent if the transmission range is exceeded.
 - 7.2 Interferences

In order to solve the disturbances from other devices that are using neighbor frequencies or from other 2.4G wireless appliances nearby, fitting a slotted screwdriver into the slot, and rotate the switch clockwise or counter-clockwise.

8. Specification
 - 8.1 Digital Wireless Receiver

Model : DWR-882
Power Consumption : 7.5W
Receiving Sensitivity : -85dBm
Volume Adjusting Range : 0~20dB
Output Jack : $\phi 6.3$ mm Mono Female Jack
Rated Output Power : 7.5W (4 Ω loaded, THD=10%)
Dimension : 284(L) \times 157(W) \times 211(H) mm

Weight : 1.5Kg±50g

8.2 Digital Wireless Handle Microphone

Model : DWM-880

Carrier Frequency : 2.4040~2.476 GHz

Transmitting Power : 10dBm(±2dBm)

Capsule : Dynamic

Polar Pattern : Super-Cardioid

Impedance : 600Ω

Frequency Response : 80Hz~12000Hz

Power Supply : Two AA batteries

Battery Life : Approx. 26 hours(Alkaline Battery)

Dimension : ø55 × 260(L) mm

Weight : 180g±5g (W/O Batteries)

8.3 Bodypack Digital Wireless Transmitter

Model : DWM-881

Carrier Frequency : 2.404G Hz~2.474G Hz

Transmitting Power : 10dBm(±2dBm)

Frequency Response : 30~18000Hz

Current Consumption : 95mA

Power Supply : Two AA batteries

Battery Life : Approx. 26 hours (Alkaline Battery)

Size : 62.4(L)×28.3(W)×88.5(H)mm

Weight : 50g±5g(W/O Batteries)

8.4 Headset Microphone

Model : MUD-806

Polar Pattern : Uni-directional

Capsule : Condenser (ø 6) (with electronic filters)

Frequency Response : 100Hz ~ 10,000 Hz

Output impedance : 2.2K 30%(at 1,000 Hz)

Sensitivity : -67±3dB (0dB=1V/μ bar ; at 1,000 Hz)

Weight : 39g± 5g

8.5 Tie-clip Microphone

Model : MDM-863

Polar Pattern : Omni-directional

Capsule : Condenser (ø 6) (with electronic filters)
Frequency Response : 100Hz ~ 10,000 Hz
Output impedance : 2.2K 30%(at 1,000 Hz)
Sensitivity : -63±3dB (0dB=1V/μ bar ; at 1,000 Hz)
Weight : 39g± 5g

8.6 Power Adapter

Input : AC 120/230, 20W
Output : DC 7.5V/1A

9. Precautions :

- 9.1 To avoid damaging the circuit, do not exposure the product to rain, water, and heavy humidity environment, or immerse the product in solution.
- 9.2 Avoid dropping or throwing the product, or hitting and beating the product by external force.
- 9.3 Do not use the product under high temperature environment.
- 9.4 Do not use the power adapter from other electronic devices as it might damage the electric circuit.
- 9.5 Avoid approaching the TV set, computer monitor, or any electric devices with CRT monitor as the product might interferes the monitor display.
- 9.6 While using the wireless microphone, keep the Receiver away from any interference sources such as computer or communication equipment.
- 9.7 If not in used for a long period of time, remove batteries from the Wireless Transmitter, and store them separately.
- 9.8 When the status LED keeps blinking after the Wireless Transmitter is on, it indicates the battery energy is running low, so please replace the batteries.
- 9.9 Please read the manual carefully. When replacing headset microphone and tie-clip microphones, please replace according to product specification to prevent damage from improper use to obtain the best performance of product.

10. Certifications: This product is in compliance with the following requirements and regulations:

10.1 CE

10.1.1 EMC : EN 301489-1 / EN 301489-3

10.1.2 RF : EN 300440

10.1.3 LVD : EN 60065

10.2 FCC : FCC Part15C

10.3 NCC : LP0002



11. FCC Declarations

- 11.1 Changes or modifications made to this device not expressly approved by the manufacturer may void the FCC authorization to operate this device.
- 11.2 In order to comply with the regulations of FCC Radiated Emission Limits, do not place or operate this Transmitter and its antenna together with another antenna or transmitter.
- 11.3 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.