

PROFESSIONAL WIRELESS MICROPHONE SYSTEM

UHF SERIES

1 RECEIVER+2 TRANSMITTERS/4 TRANSMITTERS

H-580, H-820B / H-840B

INSTRUCTION MANUAL

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1. IMPORTANT SAFETY INSTRUCTIONS



CAUTION: To reduce the risk of electric shock do not remove cover (or back panel). No user serviceable parts inside. Refer servicing to qualified personnel only.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user of the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance. Please carefully read the owner's manual.

INSTRUCTIONS:

All safety and operating instructions should be read before the product is operated.

Retain these instructions:

All safety and operating instructions should be retained for future reference.

This owner's manual should be considered as a part of the product, it must accompany it at all times, and it needs to be delivered to the new user when this product is sold. In this way the new owner will be aware of all the installation, operating and safety instructions.

Heed all warnings:

All warnings on the product and in owner's manual should be adhered to.

Heed all warnings.

Follow all instructions:

All operating and user's instructions must be followed.

Sentences preceded by  symbol contain important safety instruction. Please read it carefully.

DETAILED SAFETY INSTRUCTIONS.

Water and moisture:

This apparatus should not be used near water (i.e. bathtub, kitchen sink, swimming pools, etc.)

Ventilation:

This apparatus should be placed in a position that doesn't interfere with its correct ventilation. This unit, for example, should not be placed on a bed, sofa cover or similar surfaces that could cover ventilation openings, or placed in a built-in installation, such a bookcase or a cabinet that could block air flow through ventilation openings.

Heat:

This apparatus should be placed away from sources of heat, like radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

Power sources:

- This apparatus should only be connected to a power source of type specified in this owner's manual or on the unit.
- If the supplied AC power cable plug is different from wall socket, please contact an electrician to change the AC power plug.

Grounding or Polarization:

- All precautions must be observed in order to avoid defeating grounding or polarization.
- Unit metal parts are grounded through the AC power cord.
- If the AC power outlet doesn't have grounding, consult an electrician for outlet grounding.

Power cable protection:

The power cable should be routed in such a way that it will not be walked on or pinched by items placed upon or against it, paying particular attention to cables at their connections, receptacles and wall outlet.

Cleaning:

- You can clean the exterior of the unit with compressed air or a damp cloth.
- Don't clean the unit using solvents like trichloroethylene, thinners, alcohol, or other volatile or flammable fluids.

Non use periods:

The unit AC power cable should be unplugged from the outlet if it's unused for long periods.

Objects or liquid entry into the unit:

Be careful that no objects fall into the unit or that no liquid is spilled inside the unit through ventilation openings.

Safe power line use:

- Hold the plug and the wall outlet firmly while disconnecting the unit from AC power.
- When the unit will not be used for a long period of time, please unplug the power cord from AC power outlet.
- To avoid power cable damage, don't strain the AC power cable and don't bundle it.
- In order to avoid damage to the unit's power cable, be sure that the power cable is not walked on or pinched by heavy objects.

Unit relocation:

Before relocating the unit, please control the unit is turned off. The power cord must be unplugged from the wall outlet, and all the connecting cables should be disconnected as well.

Do not open this unit:

Do not attempt to open or repair this unit yourself. For any problem not described in this owner's manual, please refer to qualified personnel only or consult us or your National Distributor. Any improper operation could result in fire or electric shock.

Damages requiring services:

- Do not attempt to perform operations not described in this user's manual.
- In the following cases please refer to an authorized service center or skilled personnel:
 - When the unit works improperly or it doesn't work at all.
 - If power cord or plug is damaged.
 - If liquid has spilled, or objects have fallen into the unit.
 - The unit has been exposed to rain.
 - The unit doesn't operate normally or exhibits a marked change in performance.
 - If the product has been dropped or has been damaged in any way.

Maintenance:

The user shouldn't attempt maintenance not described in this user's manual. All maintenance should be performed by qualified personnel only.

IMPORTANT SAFETY INSTRUCTIONS:

- Install this unit following owner's manual instructions.
- Do not install, connect or disconnect power supply when the unit is powered, otherwise there is a high risk of electric shock.
- Do not open the unit, there are no user serviceable parts inside.
- If you detect a particular smell from the unit, please immediately turn it off and disconnect the AC power cord.
- Don't block the unit's ventilation openings.
- Avoid using this unit in overload for a long period.
- Don't force commands (switches, controls, etc.)
- To obtain good speaker wire contact, please tighten the screw terminals firmly.
-  For safety reasons, do not defeat the grounding connection. Grounding is for user safety.
- Use only connectors and accessories suggested by the manufacturer. .
- This unit should be fitted in an equipment rack (see INSTALLATION) and kept far from:
 - Wet places
 - Direct exposure to heat sources (like sun light)
 - Improperly ventilated places
- Disconnect the power cord during storms or when the unit is not in use.
-  In order to prevent fire and reduce risk of electric shock, it is necessary to keep the unit far from dripping water. Please don't put cups, vases or other object containing liquids over the unit. In case of interference from source signal, THD value will raise over 10%. Don't place this unit in a bookshelf or in other enclosed spaces.
- PROEL S.P.A. is not responsible for any damage that occurs due to a incorrect installation of the unit.

2. Features

- Adopt UHF 470-960MHz PLL frequency synthesizer technology
- Adopt multi-channel high band and intermediate band frequency selective filtering, fully eliminate interference signal
- Built-in feedback eliminating technology which can decrease the feedback and noise effectively
- Built-in multiple noise detecting circuit and TONE-LOCK system to make sure the system has strong anti-jamming function.
- Perfect performance with the best chips and components; adopt SMD original mount design to enhance the product quality and stability.
- Operation distance up to 60 meters with the best condition, 40 meters in normal condition.

3. Operation of handheld transmitter

1. Hold on the upper part of the handheld, open the metal shell, disclosing the battery case.
2. Put two AA 1.5V batteries into the case, but please make sure the battery polar is correct
Note: Please don't make the battery polar wrong, it would be damaged electronic component inside the transmitter.
3. Cover the metal shell after batteries are settled.
4. Turn on the microphone power, battery LED indicator will flash one time. If the battery LED keep lighting, it means the battery capacity is not enough; you have to change new battery.
5. If the receiver signal (RF) LED indicator is light, it means receiver received signal from transmitter, receiver audio (AF) level will working if you speak with transmitter.

4. Operation of receiver

1. Connect necessary audio system
2. Keep the transmitter off first, adjust receiver's volume to the minimum level and turn on receiver, the led on front panel will flash one time when power is on.
3. If receiver RF led is light before you turn of the transmitter, it means receiver was influenced by other signal, u have to change other frequency.
4. Adjust volume of receiver and amplifier (KARAOKE system) to the minimum level.
5. Turn on audio system's power step by step.
6. Turn of transmitter, and then adjust the volume of amplifier slowly, make sure the microphone achieve the best effect.
You can go around using place when testing. If there is no hum when you going around, it means you got perfect sound effect.
7. If there are problems with receiver system, please see the "Troubleshooting". If you still cannot find the solution, please contact professionals or local agency.
8. After using, turn off transmitter's power first, and then turn of audio system step by step.

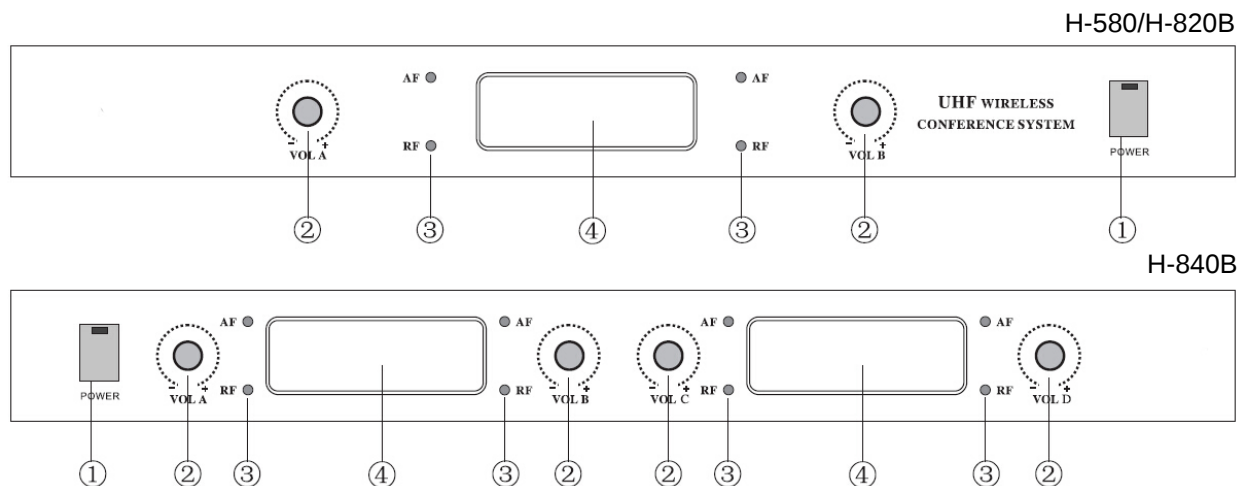
Note:

1. Since the installation of antenna influences the operating efficiency of the receiver. The most important rule is to minimized the distance between receiving antenna and microphone as short as possible for better reception and performance
2. To avoid RF signal influence, always keep the receiver away from computer or other potential sources of interference.
3. Avoid installing the receiver at the lowest floor of equipment cabinet

5. Operation of desktop transmitter

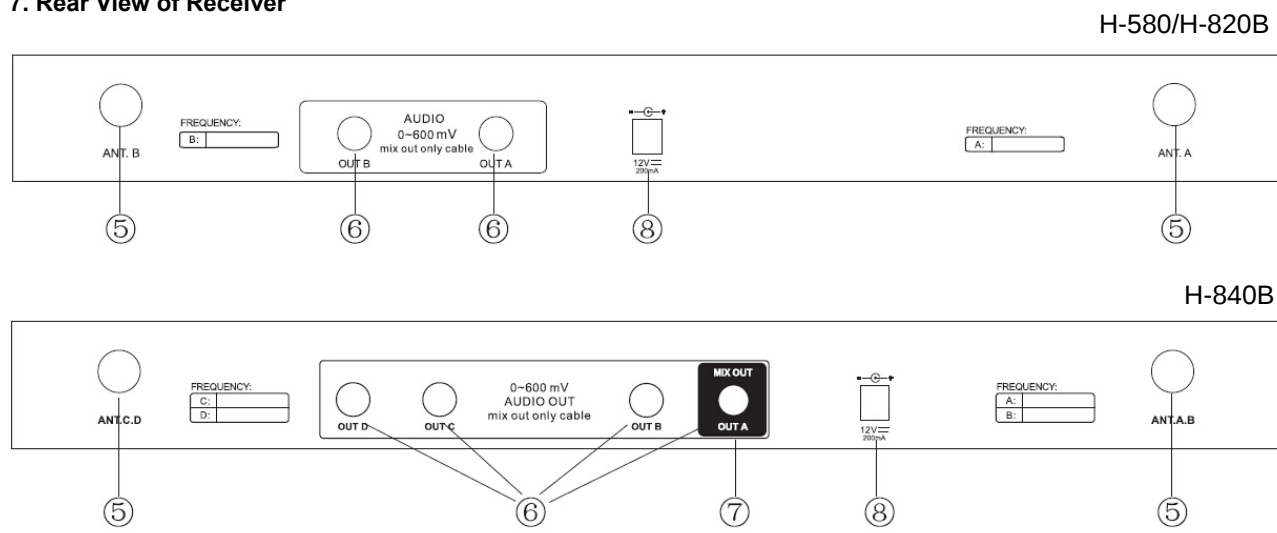
1. Open the battery cover and put into two pieces AA 1.5V batteries, please make sure the battery polar is correct. (Note: Please don't make the battery polar wrong, it would be damaged electronic component inside the transmitter.)
2. Insert the gooseneck microphone into the microphone mounting socket in a straight line, and then rotate the microphone clockwise to fasten it securely
3. Press TALK button, the transmitter LED is light; it means transmitter work normally.
4. Turn off the microphone with power switch for 1 second.
5. The battery low LED will light if battery capacity

6. Front View of Receiver



1. On/Off switch: Tap to turn on , hold to turn off
2. Volume switch
3. AF and RF LED
4. LCD panel: display system information

7. Rear View of Receiver



5. Antenna Jack
6. Output for each channel
7. Mixing output jack
8. Power Jack: Connect to DC12V-15V 600mA power adapter

8. Picture of the actual object

A. 1 receiver + 2 desktop transmitters

H-820B

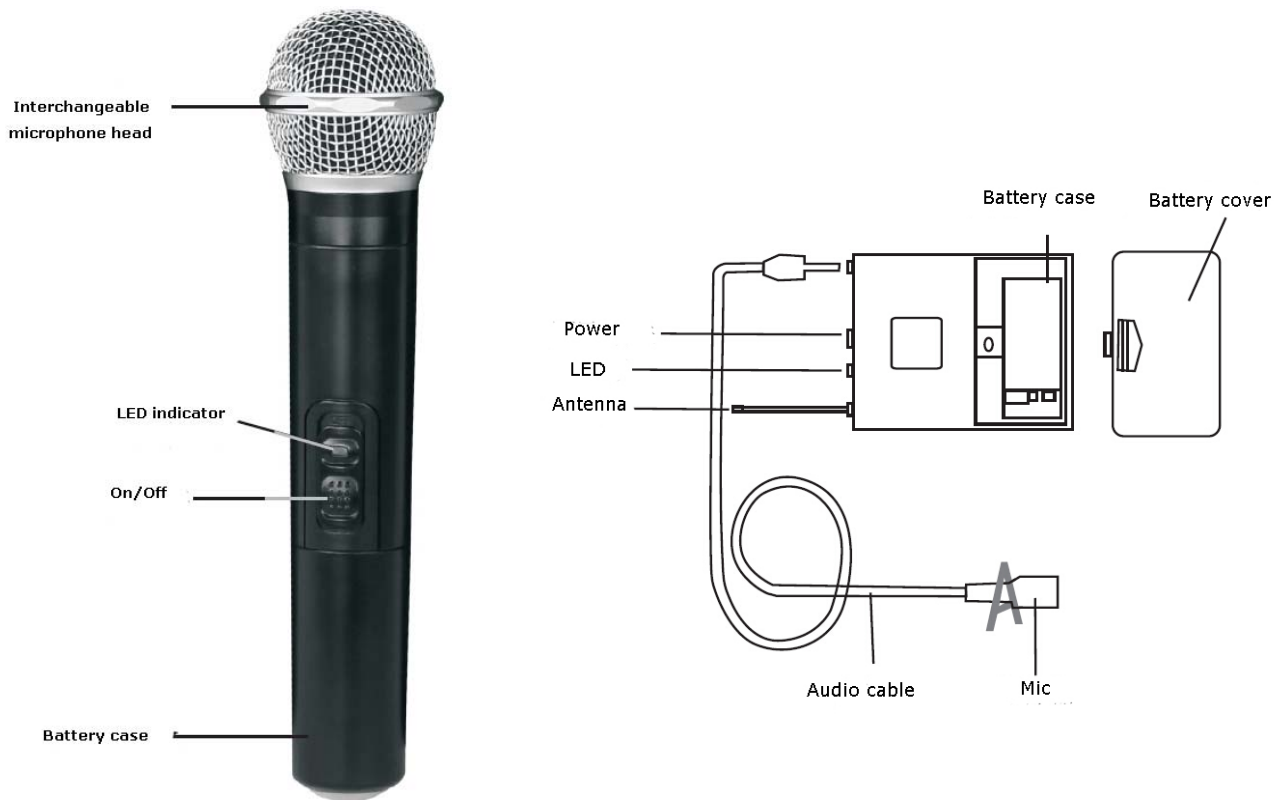


B. 1 receiver + 4 tabletop transmitters

H-840B



C. Handheld and lavalier transmitter



9. Trouble Shooting

Problem/Status	Solution
No sound (Status: No receiver RF signal)	➤ Make sure transmitter and receiver's power switch "ON" position ➤ Check the battery polar ➤ Check the antenna of the receiver ➤ Make sure there are no obstruct between antenna and transmitter
No sound (Status: RF & AF signal active)	➤ Check receiver volume knob ➤ Check the connection of receiver, amplifier and mixer. ➤ Check the volume knob of amplifier and mixer
No sound (Status: RF signal active, no AF signal)	➤ Check transmitter 's power ➤ Exchange the microphone if necessary
Distortion or unwanted noise bursts	➤ Remove RF interference (CD players, computers, in-ear monitor system, ect.) ➤ Reduce transmitter gain ➤ Replace transmitter battery

10. Packing Details

- Receiver-----1 piece
- Transmitter (Base)-----4 units
- Flexible gooseneck microphone for base-----2/4 pieces
- Audio cable-----1 piece
- Battery-----4/8 pieces
- Antenna-----2 pieces

11. Technique Specifications

	Handheld	Tabletop	Receiver for 2	Receiver for 4
Carrier Frequency	470-960MHz	470-960MHz	470-960MHz	470-960MHz
Modulation	FM	FM	FM	FM
Frequency Response	60-16KHz	60-16KHz	60-16KHz	60-16KHz
Frequency Stability	20ppm	20ppm	20ppm	20ppm
Max deviation	+/-25KHz	+/-25KHz	+/-25KHz	+/-25KHz
T.H.D	<1%	<1%	<1%	<1%
Compander	Y	Y	Y	Y
S/N Ratio	/	/	>90dB	>90dB
RF Output	30mW	10mW	/	/
Current Consumption	100mA	100mA	130mA	220mA
Power Voltage	3V	3V	12V	12V
Power Consumption	/	/	<3W	<3W
Battery life (Hour)	8	8	/	/
Distance (Meter)	60	60	60	60
Pressure limit sensitivity	-70~-98 dBm	-70~-98 dBm	/	/
AF Output	/	/	400mV	400mV
Pilot Carrier Frequency	32KHz	32KHz	/	/
Dimensions	/	/	420x220x44mm	420x220x44mm
N.W	252g	729g	2106g	2272g