

## Instruction

R601S/R601SW is a Stereo FM/AM radio with vacuum tube amplifying and display (vacuum tube usually called as "Magic eye"). With excellent circuit design and high-quality speakers, in addition with high-quality components, the radio has a superior tone.

## Use Methods

### Power supply

When leaving the factory, R601S/R601SW has been inputted with 230V (figure II) AC civil voltage and under such a status, 220V ~240V AC civil power supply can be applied. Before use, please check the power supply, and then plug the power cord (8) into civil power supply socket. PS: When using a 120V~110V AC civil power supply, please turn the voltage change switch (7) in the rear of the radio to 115V.

### Power and volume switch

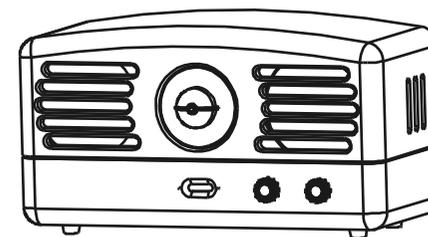
The volume control knob (3) on the front panel (figure I) of the radio can be used as power switch as well. Turn clockwise is to turn on and count clockwise to turn off. After turning the radio on, please turn the volume to an appropriate position (usually the scale of the volume control knob will point to a position of ten o'clock).

### Wave band selection

Knob (2) on the front panel (figure I) is the wave band selection knob, above which, there is a wave band indicator, showing the wave band you have selected.

### Station search

With the tuning knob (1) on the panel (figure I), you can choose the programs you like. In such a time, if the reception is not so good or there is no signal reception, please check the antenna.



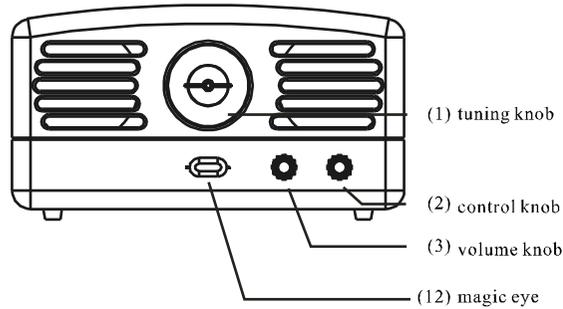
ORIGINAL I AM/FM RADIO &  
BLUETOOTH SPEAKER

R601BSWI

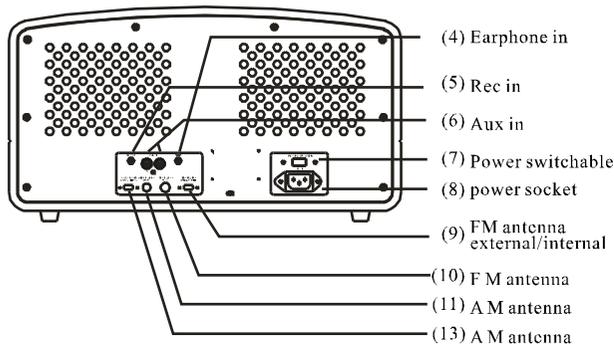


USER'S MANUAL

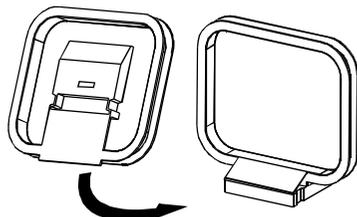
**Figure**



**(Figure I)**



**(Figure II)**



**AM external antenna  
(Figure III)**

**Trouble Shooting**

Trouble	Possible Causes	Possible Causes	Resolutions
No sound	No connected with power supply Fuse broken Cables broken Others	LED without light LED without light LED light	Connect to power supply Replace fuse Need expert advise or service Need expert advise or service
Distortion	AM inexact Others		Need expert advise or service
Significant noise		Significant hiss or buzz	Need expert advise or service

**Main technical parameter**

- (Frequency Range):  
FM 88~108MHz  
AM 540~1600KHz
- FM Stereo Separation:  $\geq 26\text{db}$
- S/N ratio:  
FM  $> 40\text{db}$   
AM  $> 30\text{db}$
- S/N sensitivity:  
FM  $< 15\text{db}$  (s/n=30db)  
AM  $< 84\text{db}$ (s/n=20db)
- Distortion: FM  $< 1\%$ , AM  $< 2\%$
- No distortion output power:  $\geq 2 \times 3\text{W}$
- One Signal Selectivity: less than 30dB
- Speaker frequency Response: 80Hz~16KHz
- Amplifier Frequency Response: 30Hz~20KHz
- Internal Speaker: 5" / 4  $\Omega$  2x5W
- Tube type: 6N2 or 6DJ8, EL84
- AC power: 230V/115V transferable
- Product size: 425 x 200 x 205 mm
- GW: 7.0KG

**Packing List**

- Radio ..... 1 pc
- power cord ..... 1 pc
- External FM Antenna ..... 1 pc
- External AM Antenna ..... 1 pc
- Spare fuse ..... 2 pc
- User's manual ..... 1 pc

**Use of antenna**

**FM broadcasting**

A built-in FM antenna has been designed and provided in the device. At a common urban place (not far away from the transmission station), no external antenna is needed. When it's necessary to use an external antenna, please turn the "Internal/External" change switch (9) in the rear of the radio (figure II) to "External". The external antenna for this device can be special external antenna for special cable antenna.

**AM broadcasting**

A built-in AM antenna (13) has been designed and provided in the R601S/R601SW. At a common urban place (not far away from the transmission station), no external antenna is needed.

**Audio input and output**

Input: an AUX IN jack (6) is provided on the back of the radio (figure II). External signal sources (CD, PC, MP3, etc.) can be connected to this jack through RCA audio cable. When use, please turn the function selection knob (2) on the front panel of the radio to "AUX IN".

Output: there is REC OUT jack (5) on the back of the radio (figure II). External recording or amplifying devices can be connected to this jack through RCA audio cable. At this time, you can record or amplify the signal that the radio is receiving.

**Feature**

- Excellent circuit, GaAs MES-FET cell-based design and high-quality components make the radio have sensitive reception, good channel selection ability and strong anti-jamming capability.
- Excellent circuit design and special speakers are adopted to make the sound vigorous and elegant.
- Particular magic-eye display circuit
- Wooden case, classical design
- A wide choice for stereo input & output: AUX IN; REC OUT; PHONE OUT
- FM/AM internal /external Antenna
- Strong output power

### FCC Warning

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:

- o Reorient or relocate the receiving antenna.
- o Increase the separation between the equipment and receiver.
- o Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- o Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

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

### ISED warning statements

-English Warning Statement:

"This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."

The digital apparatus complies with Canadian CAN ICES-3 (B) /NMB-3(B).

-French Warning Statement:

"Le présent appareil est conforme aux CNR d'Industrie Canada Applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR). Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation du débit d'absorption spécifique (DAS).

The device complies with RF specifications.