

INFORMATION TO THE USER

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.

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.

This booklet is available from the US government Printing Office Washington, DC 20402, Stock NO. 004-000-00345-4.

CAUTION: Any changes of modifications not expressly approved by the grantee of this device could void the users authority to operate the equipment.

RECEIVER

FEATURES

1. Operating on VHF high band frequency within 160 to 250 MHz with crystal controlled.
2. The receiver has a slimline plastic case and beautiful front panel finished in a black. (Dark Grey) It is designed in EIA standard case.
3. Audio frequency response is from 40Hz to 20KHz. S/N ratio is more than 100 dB, and T.H.D. is less than 0.5 percent.
4. Effective range between microphone and receiver is 30 meters.
5. Audio output can be adjusted with volume control.

SPECIFICATIONS

OVERALL SYSTEM

- * Carrier Frequency Range : 160 to 250MHz, VHF high band.
- * Frequency Stability : $\pm 0.005\%$ with quartz controlled.
- * Modulation Mode : FM.
- * Maximum Deviation Range : ± 15 KHz. with limiting compressor.
- * Frequency Response : 40Hz to 20KHz.
- * S/N Ratio : Better than 100 dB. (A).
- * T.H.D. : Less than 0.5%
- * Audio Dynamic Range : Over 100 dB. Over 118 dB with limiting.
- * Service Areas : 30 meters.
- * Temperature Range : -10°C TO 55°C

RECEIVER

- * Receiving System : Fixed frequency by Quartz controlled.
- * Receiving Sensitivity : 12 dB/ μ V. for 60 dB S/N ratio.
- * S/N Ratio : Over 108 dB, at 15 KHz deviation and 60 dB/ μ V antenna input. 50 μ S.
- * De-emphasis : 80 dB minimum.
- * Image and Spurious Rejection : Unbalanced: 0-0.5V. at 15KHz deviation and 5K Ω load.
- * Audio Output Level : Unbalanced: 6.3 ϕ m/m Phone jack type.
- * Output Connector : AC110V or AC220V. or DC 12V.
- * Power Supply : 420(L) \times 180(W) \times 45(H)mm.
- * Dimensions

WIRELESS MICROPHONE

WIRELESS MICROPHONE

NAME OF COMPONENT

FEATURES

1. High sensitivity cardioid capsule for your professional use.
2. Special noise absorption parts inside the barrels, which eliminate switch shock noise and handling noise.
3. Frequency with quartz locked control.
4. Easy opening battery compartment for quick battery replacement. Powered by 9V battery.
5. Low battery LED indicator.

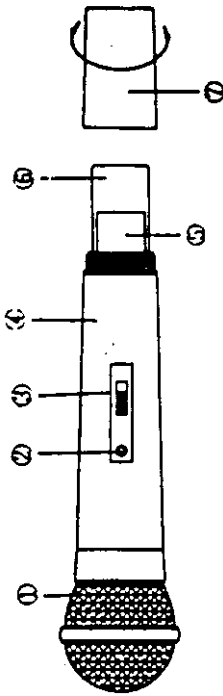
SPECIFICATION

- * RF Power Output : 30mW (MAX.)
- * Spurious Emissions : 40 dB below carrier minimum;
- : 50 dB, typical.
- * Antenna : Built in
- * Pre-Amplifier : 50 μ S.
- * Microphone Element : Unidirectional dynamic microphone.
- * Battery : Standard 9V battery.
- * Current Consumption : About 25mA.
- * Battery life : Over 8 hours continuous operation.
- * Dimensions : 52(D) x 247 (L) mm
- * Weight : 227gs.

OPERATION

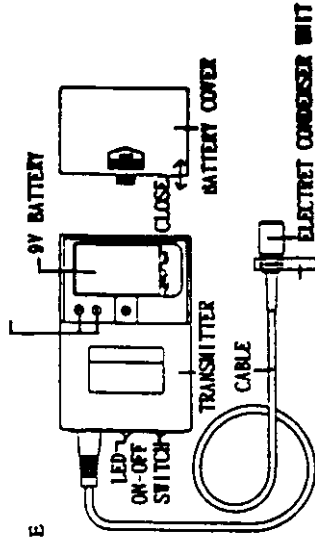
1. Open the battery holder in anticlockwise direction.
2. Insert a 9V battery into the battery holder according to polarity (+) and (-) indication marked on the battery house.
3. Fit battery housing back in clockwise direction.
4. Push the power switch to first step, the LED indicator will flash to indicate the carrier frequency is sending out. Push the power switch to second step, the microphone is operating.
5. Push the power button "OFF" when mic is not used. Remove the battery out the microphone if it is not in use for a long time. Push this will prevent any damage a defective "leaking" battery may cause.
6. Switch the power "ON", the LED indicator is flashing that means power supply is normal. If the LED indicator is still on light that means the battery is in need of replacement. If no flashing, it must be no battery in there or battery is not properly inserted.

HAND HELD MICROPHONE



1. Screen Ilead
2. Low Battery Led Indicator
3. ON/STB/OFF Switch
4. Mic Housing
5. Battery Housing
6. 9V Battery
7. Battery Cover

TIE CLIP MICROPHONE



NOTE:

The Hand Held and Lavalier Microphones both on the same frequency. They cannot be used together at the same time.

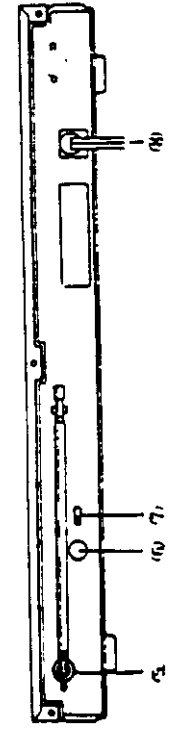
TROUBLE SHOOTING:

- Please take the time to read this manual, before asking after service. And checking follow points. If it also have unusual things, please contact with purchasing store. We are sincerely to serve for you.
1. Before connecting and operating the unit, check the voltage setting conforms to the voltage available in your area.
 2. If the LED indicator is still on light that means power supply is in need of replacement. Please replace one new 9V battery and be sure the polarity (+) (-) of battery is connected correctly.
 3. Signal dropouts and noise may be suddenly encountered by interruption from outside, too long distance between microphone and receiver or battery is low power. In such a case, adjust receiver antenna or change new battery.
 4. Do not drop the microphone on a hard concrete floor, nor strike the microphone head front with a fist or fingers, nor blow a breath strongly into the microphone head front.
 5. Remove the battery out microphone is not used for a long time. This will pre-

FRONT PANEL.

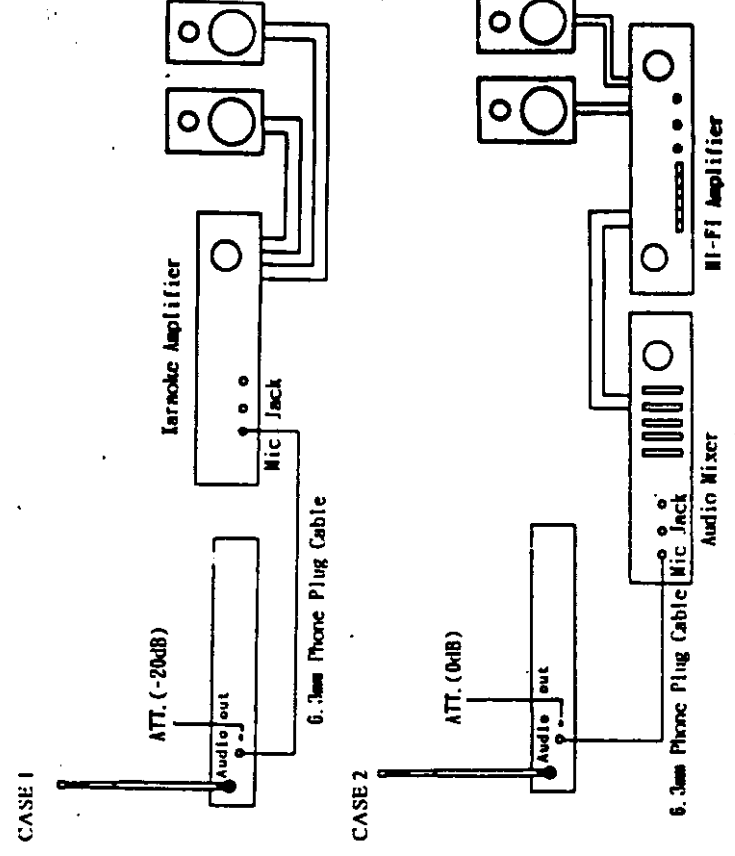


REAR PANEL.



1. Power switch.
2. AF Signal Lamp.
3. RF Signal Lamp.
4. Level control.
5. Antenna Input Terminal.
6. AF Mixing Out.
7. Attenuator (0db, -20db, -60db)
8. AC Power Cord.

CONNECTING DIAGRAM:



OPERATION ON THE RECEIVER:

1. Connect the phone plug cable, one end to the jack of Audio in, the other end to the Mic mixing jack of Karaoke Amplifier or audio mixer etc.
2. Please draw the telescopic antenna A & B to the longest & vertical extent to enhance sensitivity for receiving microphone signal.
3. Set the output gain selector (attenuator), it is based on your amplification level of mixing equipments. We have some instances for your reference.
 EL. 0dB for less gains
 -20dB for more gains
 -60dB for recording
4. Press the power switch on, the indicator lamp will light.
5. When the mic is transmitting the signal, the RF signal red lamp of receiver will light to indicate the mic is operating.
6. Adjust the level control of the receiver, check the AF signal green led lamp whether it lights strongly or weakly.
7. When the receiver is not used, revolving the volume knob to minimum and turn the power off.

* When you are connecting receiver to tape recorder for recording, please set ATT. (attenuator) to -60db position.