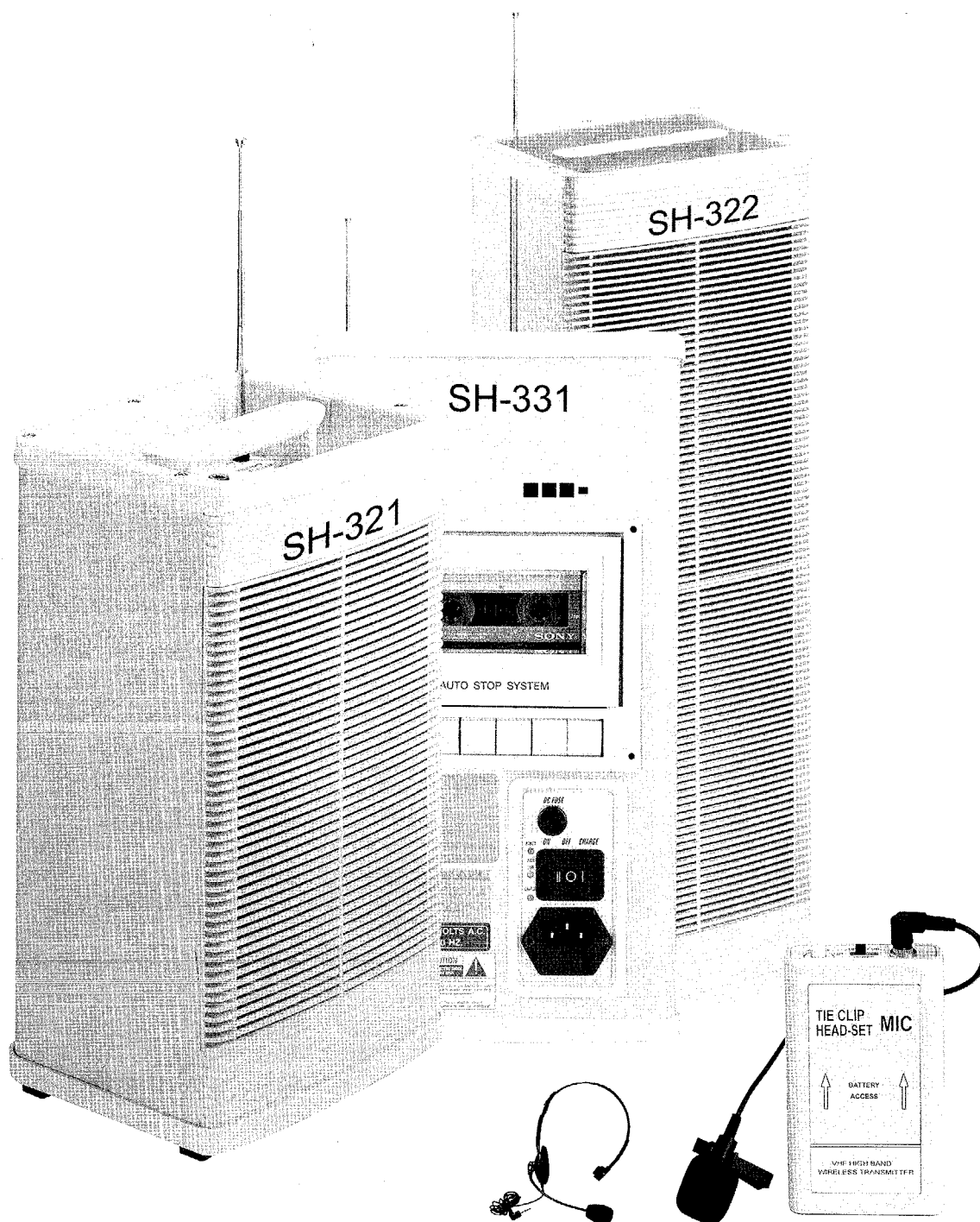


Portable Wireless Amplifier

MANUAL



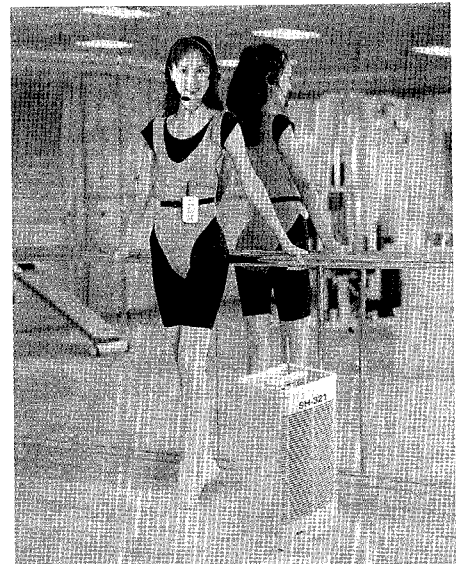
SH-322

Superiority & Function

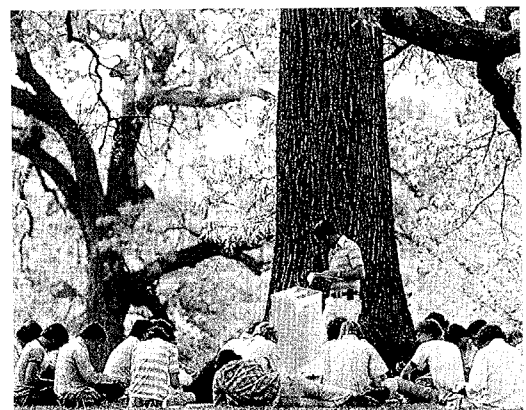
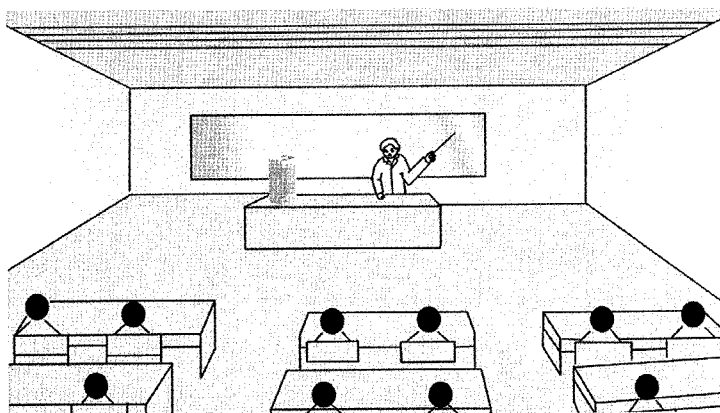
- Integral structure manufactured with special ABS plastic & aluminium alloy, which is convenient for carrying.
- Uni-directional collar clip MIC with high sensitivity and acoustic clearness.
- Quartz oscillating circuit with stable frequency and strong anti-interference.
- Two options for electric power: AC power, internal rechargeable accumulator which is suitable for various kinds of circumstances especially in the open-air without AC power.
- Adopting IC chip with low current consumption and long-lasting battery function.
- Excellent quality achieved by manufacturing with auto-production line and adopting SMT technology.
- Electric power is supplied by accumulator automatically in case of power cut down while using AC power.

Adoption

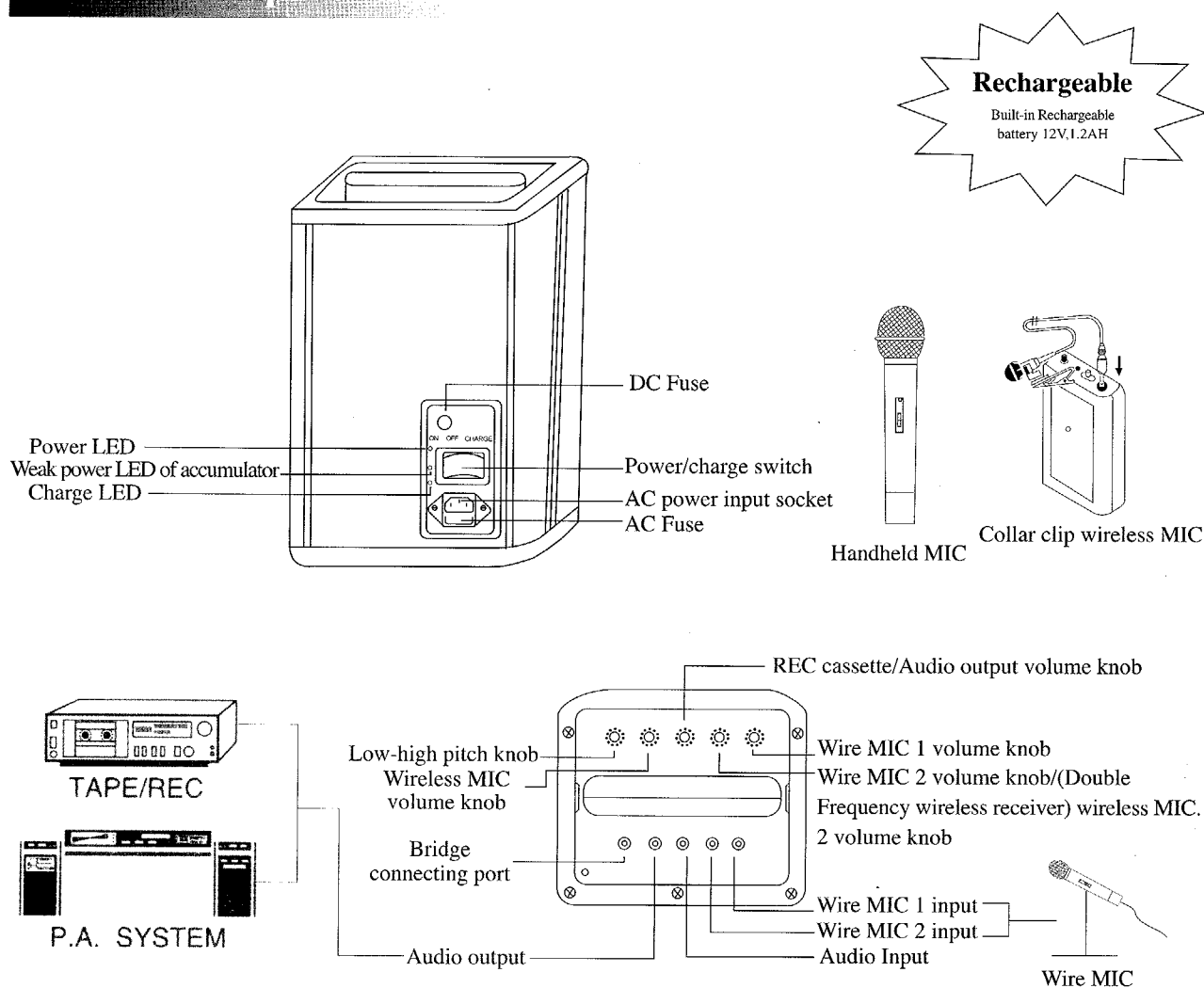
- Used as lecturing amplifier indoor or outdoor at school. (especially for dancing and gymnastic demonstrations)
- Used as an interpreting amplifier for outdoor activity and suburb tour.
- Used as an amplifier for temporary indoor or outdoor assembly.
- Used as amplifier for interpretation of exhibition, temporary instruction of traffic communication and promulgation of products in shopping mall.



Choose the Amplifier, the loudness and clearness of your voice would be a reality.



Names of components



SH-321/SH-322/331

(Single channel main frame) Standard match

- 1: One set of main frame
- 2: A piece of collar clip wireless MIC and hand-held wireless MIC with same frequency
- 3: A piece Headset MIC

SH-321D/SH-322D

(Dual channel main frame) Standard match

- 1: One set of main frame
- 2: Two pieces of collar clip wireless MIC
- 3: A piece Headset MIC

Note: Customers may choose main frame equipped with: collar clip/hand-held wireless MIC, single channel receiver which is only used with one wireless MIC, or dual channel receiver with which two wireless MIC can be used simultaneously.

Technical specifications/Features/dimension

Items \ Type	SH-321/321D	SH-322/322D	SH-331
Power supply	AC:220V(110V) 50HZ DC:12V/1.2AH (Built-in Rechargeable battery)		
Frequency Range	VHF 180-260MHZ		
Sensitivity	10dB μ V (S/N 60 dB above)		
Oscillating Mode	$\pm 0.005\%$ quartz oscillating locked		
Transmitter Power	35mw		
Output Power	35w	50w	35w
Loudspeaker	16cm 15w/4 Ω 1set	16cm 15w/4 Ω 2sets	16cm 15w/4 Ω 1set
Dimension	180x300x145mm	180x510x145mm	180x330x145mm
Weight	4kg	6.5kg	5kg

We reserve the right of changing technology and specification of our products without notice in advance.

Adjust the volume to the lowest position before operation.

Adjust the volume to suitable position while in operation. Fully pull out the antenna before operation to achieve the longest service range of the wireless MIC.

Operation of main frame AC power

- Connect AC power according to marked voltage. Switch on main frame power, Power LED lights indicating the normal function of main frame.
- Power is supplied by accumulator in case of power cut down.

Note: Power switch must be in "OFF" position and AC power plug must be pulled off after finishing charge or knocking about.

!Caution!

The switch of main frame power must be in "OFF" position after operation, otherwise, the internal accumulator would continue its power release and result in the damage of accumulator.

Operation & maintenance of main frame DC power

- Switch the power to "ON" position, the light of the power LED indicates the normal function of DC accumulator and the main frame is on operation. Turn off the power after operation so as not to shorten the use span of accumulator.

Note:

- The replacement of AC power and recharge are needed in case of weak accumulator power and occurrence of noises and interruption of voice while using accumulator power.
- BATT LOW LED flashes or warning alarm sounds indicating the weak power, the recharge should be needed, otherwise, the use span of the accumulator will be shortened.
- A power recharge should be needed every three months to avoid the damage of accumulator while it is knocking about.

!Caution!

The switch of main frame power must be in "OFF" position after operation, otherwise, the internal accumulator would continue its power release and result in the damage of accumulator.

Operation of charging accumulator

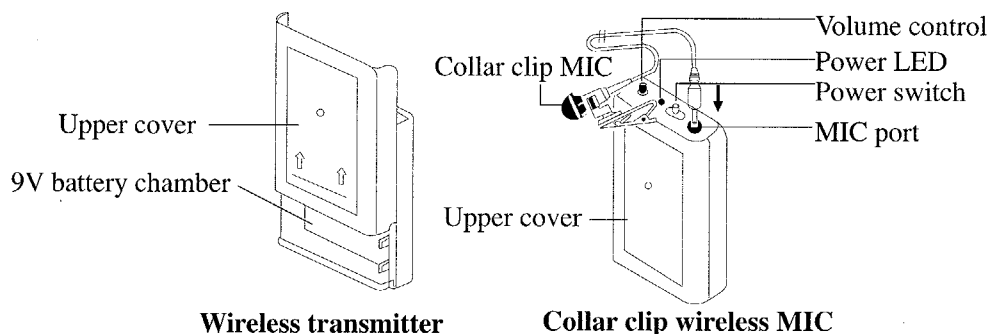
1. Switch the power to "CHARGE" position after connecting AC power. "CHARGE LED" lights indicating the normal function of the charge. "CHARGE LED" will become weak till dark along with the saturation of power.
2. The "CHARGE LED" mentioned above may not light in case of excessive power release of the accumulator. It's a normal phenomenon.

Operation of collar clip wireless

1. Push the cover of the transmitter according to the arrow marks. Insert a 9V battery according to the positive pole and negative pole, then close the cover.
2. Put the collar clip MIC. plug into the port of transmitter (MIC position).
3. Push the transmitter to "ON" position, power LED light indicating the normal function of MIC.
4. The distance between the MIC and the speaker, the closer the better while in operation.
5. A new battery should be replaced in case of noises, voice interruption and voice mutation indicating the low battery power while in operation.
6. Adjust the volume to proper position to achieve the perfect sound effect.
7. Push the switch to "OFF" position after the operation. Remove the battery to avoid the leakage and acidification of the battery while knocking about.

Note:

Press the transmitter switch to "ON" position, the weak or dark of the power LED indicates the weak power or wrong connecting of the positive and negative poles. Adjustment should be needed.

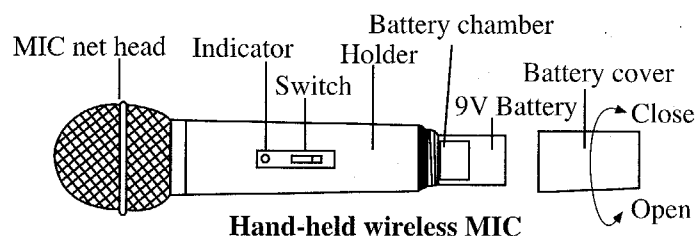


Operation of hand-held wireless

1. Remove the battery cover, insert 9V battery according to the positive and negative poles, then close the cover.
2. Press the switch to "ON" position, MIC is in normal function.
3. A new battery should be replaced in case of noises, voice interruption and voice mutation indicating the low battery power while in operation.
4. Press the switch to "OFF" position after the operation. Remove the 9V battery to avoid the leakage and acidification of the battery while knocking about.

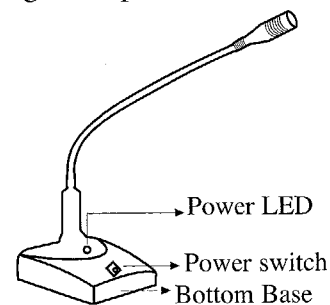
Note:

When pressing the switch upward: ① A flash of the "LED" indicates the normal power of the battery. ② The long-lasting light of the "LED" indicates the weak power of the battery, and a new one should be replaced. ③ No flash or light of the "LED" indicates no power of the battery or the wrong connecting of the positive and negative poles. Adjustment should be needed.



Operation of conference (goose shape) wire/wireless MIC

1. Remove the battery cover on the bottom base, insert the 9V battery according to the positive and negative poles, then close the cover.
2. Switch the power to "ON" position, the light of power LED indicates the normal function of MIC.
3. A new battery should be replaced in case of noises, voice interruption and voice mutation indicating low battery power.
4. Switch the power to "OFF" position after operation. Remove the 9V battery to avoid acidification of the battery while knocking about.



Conference wireless MIC

Operation of wire MIC

Put the plug of wire MIC into the port of wire MIC input, adjust the volume to sound effect.

Operation of Audio input

Connect output signal of REC or VCD systems with Audio input of the main frame, adjust the volume for amplifying usage.

Operation of Audio output

The main frame can export the outer signal to PA system or REC cassette.

Operation of low-high pitch control

Adjust the low-high pitch control knob to required perfect sound effect.

Operation of bridge connection (Double volume enhancement)

Connect each bridge connecting ports of two frames with audio wire to duplicate the volume when large volume is needed in big hall or stadium. ★ Bridge connection of two frames with different frequency can achieve much perfect effect.

Operation of multiplying the volume

In order to multiplying the volume, a wireless MIC. several wireless amplifier with same frequency can be applied to receive simultaneously in circumstances of large hall, stadium.

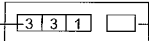
The amplifier of wire/wireless REC cassette can be used simultaneously and adjust the volume separately.

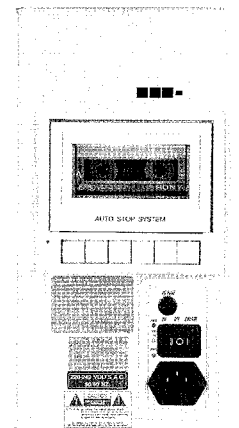
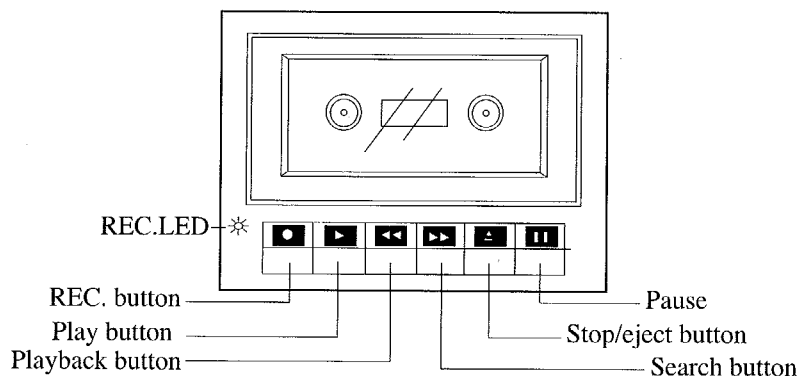
Cautions of trouble-shooting

1. Adjust the volume control to proper position when echoes and scream occur.
 - 1) Adjust the main frame/transmitter volume.
 - 2) Lower the voice tune.
 - 3) Adjust the direction and distance between the main frame and MIC.
2. If noises and voice interruption occur:
 - 1) Weak power of the 9V battery in the wireless MIC, a new one should be replaced.
 - 2) AC power should be applied in case of weak power of accumulator when using accumulator in the main frame.
 - 3) Signal interference with similar frequency from surroundings, please contact the sales agent and change the frequency.
3. No sound:
 - 1) The power of the MIC and main frame is still off, so, turn on the power.
 - 2) Make sure the volume of the main frame and transmitter is well adjusted.
 - 3) A new collar clip MIC. should be replaced when the old one is wearing out.
 - 4) Make sure if the AC/DC fuse is broken, if so, a new one (250V/5A) should be replaced.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>Warning: Don't dismantle this product. The maintenance and inspection should be carried out by a qualified technician to avoid the risk of electric shock and damaging the components.</p>		

Operation of Play & Record of cassette in SH-331

Digital display of calculator —  — Reset button of calculator



1. Play

- 1) Adjust the TAPE/AUX volume to 1/3 position. (TAPE/AUX is cassette/outer Audio volume control knob, when Aux audio input port is connected with outer audio, TAPE/AUX becomes outer audio volume control knob. When there is no outer audio connection, TAPE/AUX acts as cassette volume control knob.)
- 2) Press Eject button (▲) insert the tape then press play button (▶) to play the tape. Press stop button (▲) to stop the play.
- 3) Adjust TAPE/AUX to proper position and adjust the TONE knob to achieve perfect sound effect.
- 4) Press pause button (||) to pause the play, press it again to re-start the play.
- 5) Press search button (▶▶), the tape plays forward rapidly. Press playback button (◀◀) to play back the tape.
- 6) The application of tape calculator is needed according to your requirement while playing tape. Press the Reset button to re-calculate from zero.

2. Record

- 1) Insert the tape into Tape deck.
(Note: Record tape should be with erase-prevented chip.)
- 2) Press play and REC. button simultaneously, REC LED lights indicating the record can be carried out through wire or wireless MIC. Press pause (||) or stop button (▲) to pause or stop the record.
- 3) In most cases, adjust the volume of wire or wireless MIC. to 1/2 position while recording, the adjustment is carried out according to the sensitivity of MIC.

Note: The record volume is controlled by the wire and wireless volume knob.

3. Maintenance and notice.

- 1) Dust or dirt may attach to the tape head, pinch roller and capstan because of the frequent movement of these parts, and it may lead to the distortion or mutation of the sound. Cotton swab dipped with pure alcohol can be used to clean these parts.
- 2) Insert the tape into the proper position to avoid the damage of auto-stop lever.
- 3) Tape winding is because tape wheel can't move or the tape is too tight and irregular. Rewind the tape several times to solve this problem.
- 4) Check the tape head to see if it's dirty, make sure the erase-prevented chip of the tape is not removed, when recording. Cleaning of the tape head and seal of the chip with plastic sticker is needed when necessary.

230- 247

2483 X Display