

**BX120T  
MIXER AMPLIFIER**



Please follow the instructions in this manual to obtain the optimum results from this unit.  
We also recommend that you keep this manual handy for future reference.

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# 1. SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

## Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety



### **WARNING**

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



### **CAUTION**

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.



## **WARNING**

### When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut nor modify the power cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down, causing personal injury and/or property damage.

### When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
  - If you detect smoke or a strange smell coming from the unit.
  - If water or any metallic object gets into the unit
  - If the unit falls, or the unit case breaks
  - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
  - If it is malfunctioning (no tone sounds.)

To prevent a fire or electric shock, never open nor

- remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

### CAUTION

#### When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating smoke or steam as doing otherwise may result in fire or electric shock.

#### When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

Due to product upgrades, while some of the features and specification in the user manual does not match the actual functions, sorry for any inconvenience and thanks for your kind understanding!

## 2. GENERAL DESCRIPTION

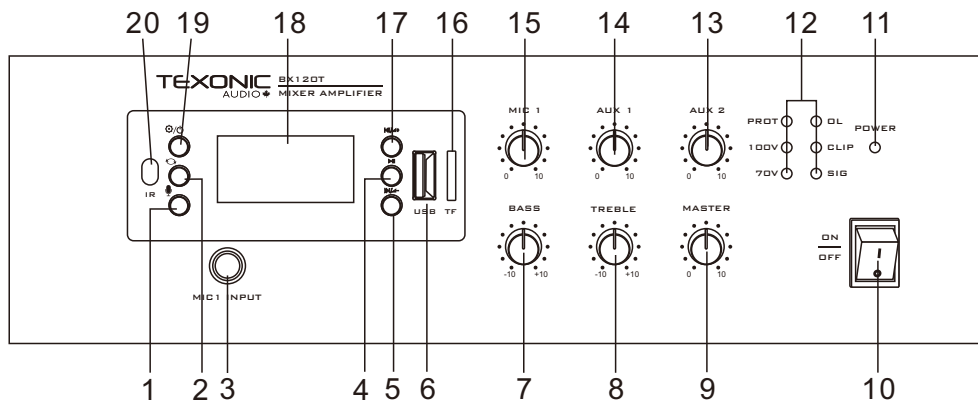
This is a mini desktop constant pressure amplifier, with beautiful appearance, light weight, easy to carry, and it can be used for background music and radio in family, leisure cafes, classrooms, and other small indoor venues.

## 3. FEATURES

1. With desktop design, beautiful appearance, light weight, and easy to carry.
2. It can be used for different sound effect places. This series including 120W and 240W.
3. Super sound quality and high definition, switching options can be connected to 70V or 100V output, and to provide beautiful sound for long distance broadcast.
4. The output terminal uses standard 6.3 audio microphone jack and line input use RCA jack, to provide users with different audio input interface options.
5. 1 channel microphone input with independent volume control.
6. 2 channel line inputs with independent volume control. And also with EMC input.
7. With function of auto play MP3 and power off memory.
8. With priority function, when MIC 1 input, the other audio signal can be disconnected.
9. With power indicator, the machine has a signal indicator, overload, protection indicator, and 70V, 100V output switch indicator.
10. With function of short circuit, overload and over temperature protection.
11. With function of MP3 module, can read MP3 files in USB flash disk, TF card, support for Bluetooth of mobile phones and FM radio.

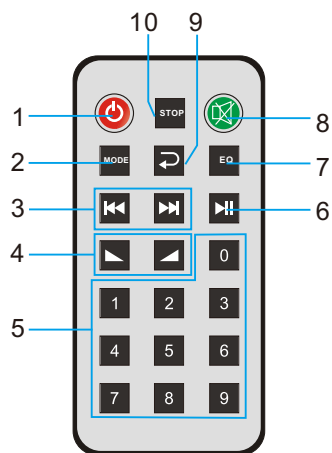
## 4. NOMENCLATURE AND FUNCTIONS

### 4.1 FRONT PANEL



1. Recording function button
2. MP3 loop playback function button
3. MIC1 input
4. Play/Pause
5. Next song/Volume reduce
6. USB interface
7. BASS adjustment potentiometer
8. TREBLE adjustment potentiometer
9. Master volume control
10. The Power switch
11. Power indicator light
12. PROT/100V/70V/OL/CLIP/SIG status indicators
13. AUX2 volume control knob
14. AUX1 volume control knob
15. MIC1 volume control knob
16. TF card slot
17. Previous song/Volume up
18. LCD display
19. Mode function button
20. Infrared receiving window

### 4.2 Remote control



1. Power switch
2. Mode
3. Previous/next
4. Volume increase/decrease
5. 0~9 number button
6. Play/pause
7. Sound effect control
8. Mute
9. Cycle play button
10. Pause

#### Normal usage distance of remote control:

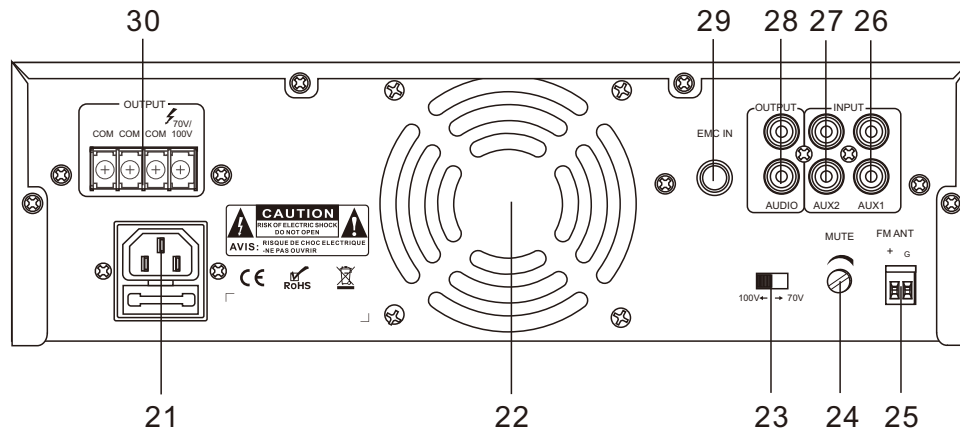
Remote control distance: 8 meter, angle: level  $\pm 35$ , vertical  $\pm 15$ .

#### Remote control usage attention:

1. When install battery, please mind electrode.
2. Please let remote control aim right with window of host machine.
3. When found remote distance get short and insensitive, please change battery.
4. Please take out battery when don't use it for a long time.
5. Take it easy in case of falling.

## 4. NOMENCLATURE AND FUNCTIONS

### 4.3 REAR PANEL

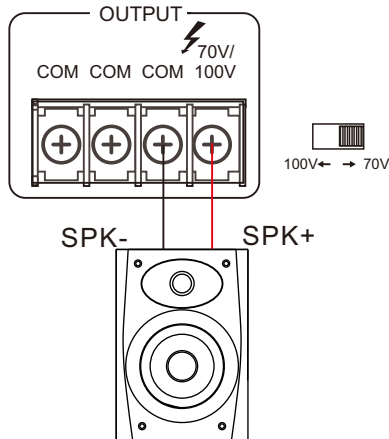


- 21. AC power input socket
- 22. Cooling fan
- 23. 100V / 70V speaker output switch
- 24. MUTE mute control
- 25. FM radio antenna interface
- 26. AUX1 input interface, used to connect AUX output interface
- 27. AUX2 input interface
- 28. Line output interface, used to connect the line input interface
- 29. EMC input interface
- 30. 100V/70V output interface

## 5. OPERATION ILLUSTRATION

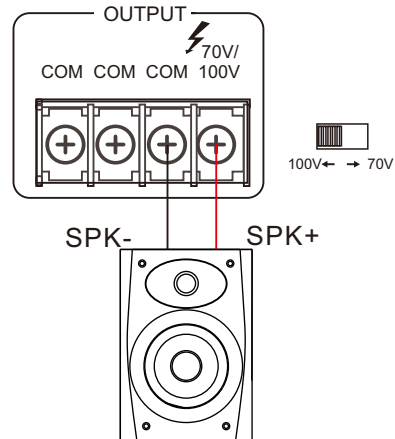
### 1. Connect the speakers:

① When the 100V and 70V selector switch to 70V position, as shown below:



Maximum output voltage: 70V

② When the 100V and 70V selector switch to 100V position, as shown below:



Maximum output voltage: 100V

### Note:

1. Before connecting the speakers, please make sure that the equipment is powered off. In the case of power on, may have the risk of electric shock.
2. Please make sure there are no applied load to the speaker cables.
3. During the installation of speakers, please make sure that the sum of the rated input power of the speakers to be connected is less than rated power of equipment.

### 2. Connect external devices:

- ① Please ensure that the equipment and all equipment will be connected are powered off.
- ② Using the corresponding cable to connect this equipment and other external equipment.

### 3. Connect the power line and turn it on:

- ① Please make sure that the power switch of equipment and its connected equipment are turned off (in the OFF position).
- ② Turn the volume knob to the left
- ③ Connect the supplied power line to the AC IN interface
- ④ Plug the power line into the applicable socket
- ⑤ Turn on the connected equipment (CD player, etc. ), and then turn on the equipment.

### Note:

1. Before powering on, please check and make sure there is no problem with the cable and connection.
2. When you turn off the system, turn off the equipment, and then turn off the connected equipment.



## 5. OPERATION ILLUSTRATION

### 4. Microphone using:

1. Turning the volume knob to the left, Connect the microphone and microphone input interface.
2. Turning the volume knob in the right position.
3. Facing the microphone and Speak loudly, turn the volume knob to the right, until the output signal no longer distortion. If input is high but output is low voice, and then increase the volume by using the volume knob. If the speaker volume is very high, then reduce the volume by using the volume knob.

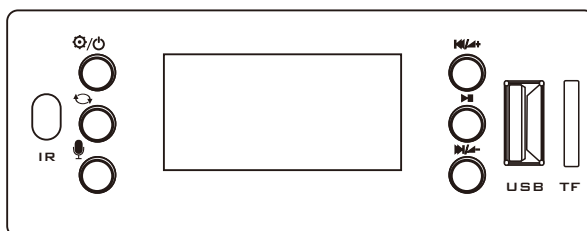
### 5. Shutdown the system:

1. Turning the volume knob to the left until the minimum position.
2. Turning off the panel power switch of the professional power amplifier, at Off. In turn shutoff processor equipment and audio source equipment.







### Note:

1. Turn off the power switch, Please wait about 5 seconds before turning on again. Continuous rapid turning on and off the power switch, it will lead to equipment failure.
2. Even the switch is in the off status, there will be a little current in equipment. If it won't use the equipment in a long time, please unplug the power cord from the wall AC socket.

### 6. Built-in MP3 player operation method:



The buttons are explained as follows:

S.No	Buttons	Function
1		Mode function button; FM / USB / BT / playing (Long press this button to forcibly turn on / off the machine)
2		Previous song (long press to increase volume)
3		Mp3 loop playback function button; (with Repeat One / Repeat ALL / Random / Repeat Folder mode.)
4		Play / Pause (long press this button in FM mode to receive the station)
5		Recording function button; (press this button in PLAYING mode to record) (Long press the Record button to switch between recording and USB playback)
6		Next song (long press to decrease volume)

### USB function

Press the MODE button to select the USB mode, copy the MP3 file in the U disk (below 32G), and it supports MP3 / WAV / WMA / AEC / FLAC format.

## 5. OPERATION ILLUSTRATION

### **TF card function**

Insert a TF card (below 32G) to copy the MP3 file, and it supports MP3 / WAV / WMA / AEC / FLAC format.

### **FM (Radio reception) function**

Press the MODE button to select the FM mode, and then long press the PLAY / PAUSE button to automatically receive the radio station. The radio stations received (depending on the sound received) depends on the venue.

### **Bluetooth function**

Press the MODE button to select the Bluetooth mode, turn on the mobile phone Bluetooth for connecting, it can play normally when the mobile phone is 10 meters barrier-free away. Bluetooth default name is "BP10\_BT".

### **MP3 song loop playback**

In USB or TF card mode, play a song at will, press the mode button to switch between REPEAT One / REPEAT ALL / Random / REPEAT Folder.

### **Functional memory function**

You can turn it off by the remote controller or long pressing the MODE button. After it is turned on, it can remember the function mode selected before. If you unplug the power cable and turn it on again, the default is Bluetooth function mode.

### **Recording function**

In the PLAYING mode, press the lower left Recording button to record and store in the USB flash drive. It shows the current specific number of recordings and recording time. If you want to end the recording, you can long press the Recording button to complete recording and play the current recording file. In USB playback mode, long press Recording button to switch between USB songs and recorded files for playback.

### **Volume +/-**

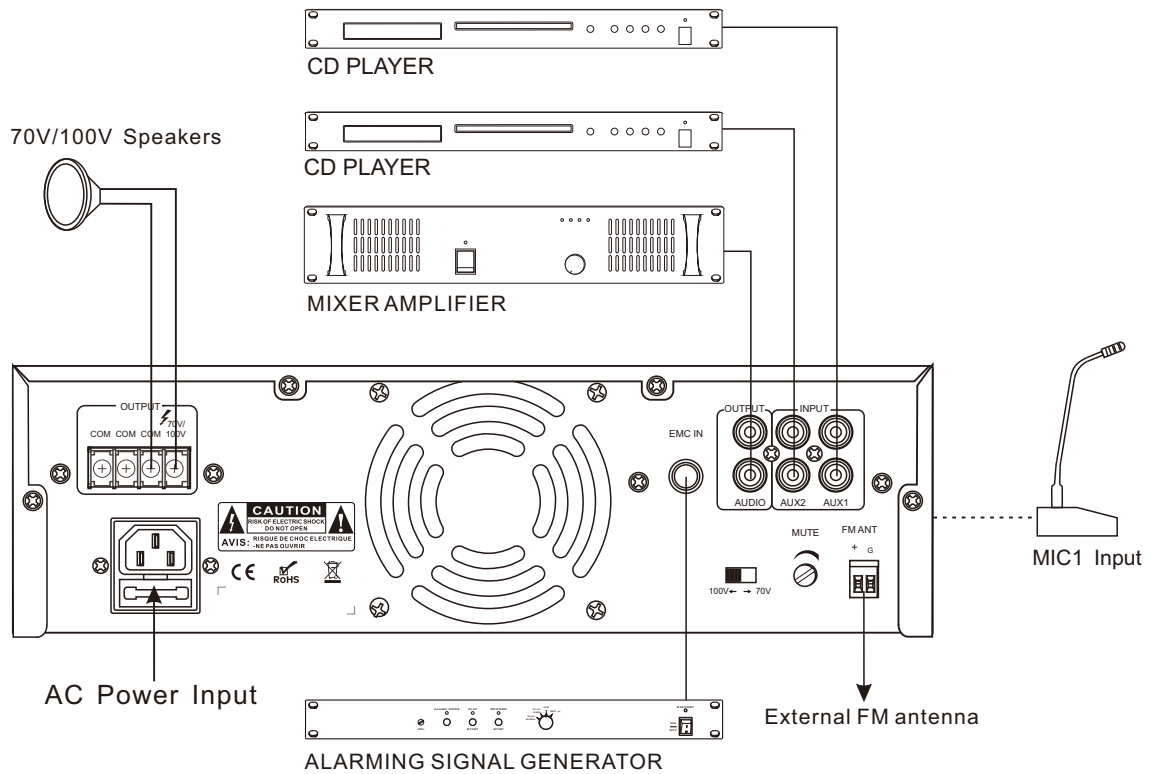
Long press the Previous Song button to increase the volume quickly, and long press the Next Song button to decrease the volume quickly.

## 6. TROUBLESHOOTING

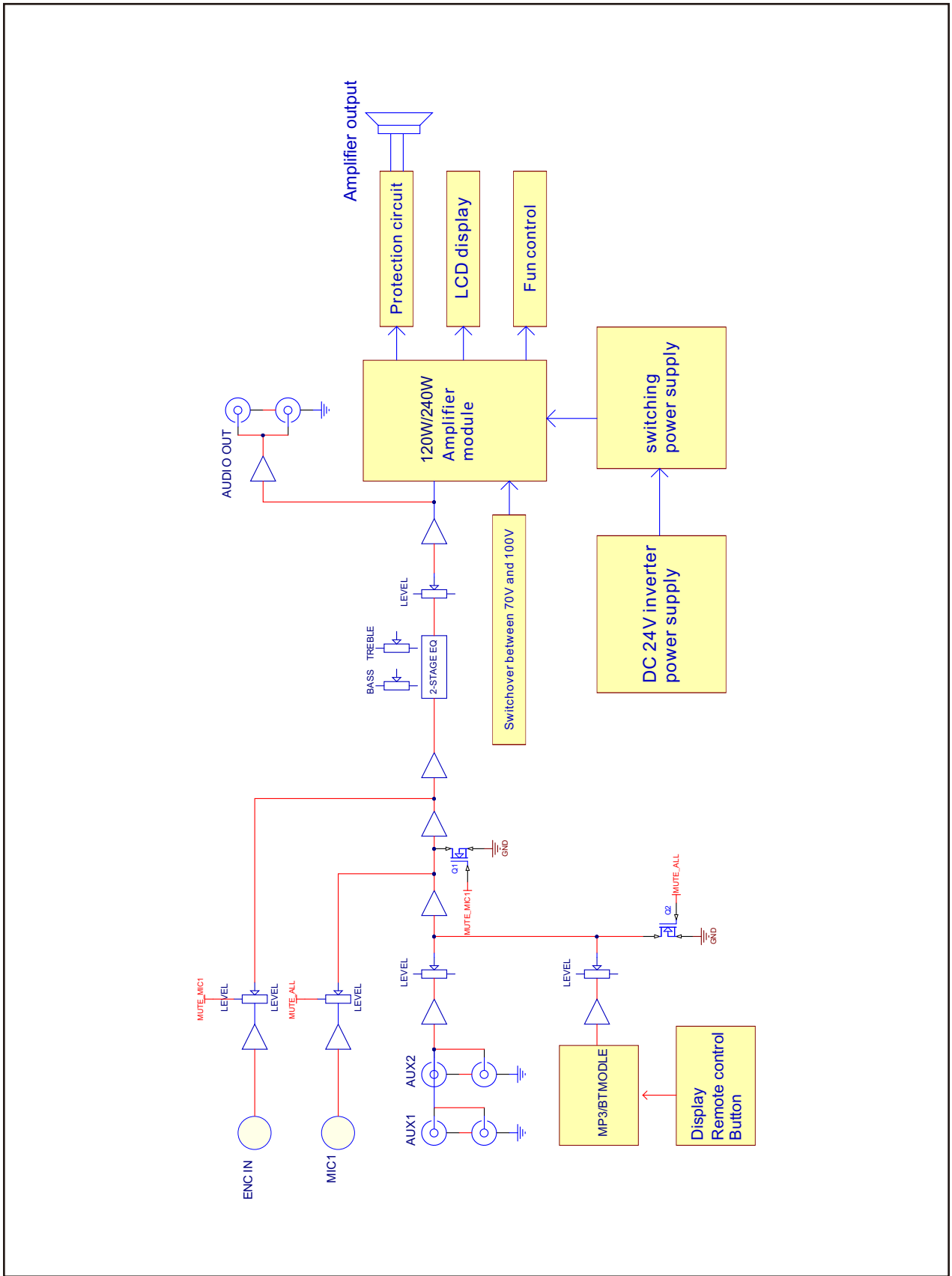
Failure phenomena	Failure cause
1. Power switch is not opened	<ol style="list-style-type: none"><li>1. Power line is cut off</li><li>2. The protection function of the equipment is not activated</li></ol>
2. All lines are connected, but there is no sound.	<ol style="list-style-type: none"><li>1. The power switch is not opened or the power plug is bad contacted.</li><li>2. The fuse is burnt</li><li>3. The volume knob is not opened or turned down to a extra low level</li><li>4. There is no audio signal input</li><li>5. There is short-circuit in the speaker line.</li></ol>
3. The sound suddenly disappears in normal status.	<ol style="list-style-type: none"><li>1. The equipment is in very high temperature to make it into protection status.</li><li>2. The connection wire is bad contact.</li></ol>
4. Low sound	The equipment is set to be low impedance connection, but the speakers connected is with high impedance.
5. Sound is distorted	The input level of Mic or external equipment is too high

## 7. APPLICATIONS

### REAR PANEL CONNECTIONS



# 8. BLOCK DIAGRAM



## 9. SPECIFICATIONS

Model	BX120T
Rated Power Output	120W
Speaker Output	70V/100V
Input Sensitivity& Source Impedance	MIC input: + 5mV, unbalanced 6.3 connector AUX input: 350mV, unbalanced RCA connector
Tone	Bass: 100Hz±10dB, Treble: 10KHz±10dB
Frequency Response	80Hz~16KHz(-3dB)
S/N Ratio	≥75dB
T.H.D	Rated power output, distortion ≤ 1%
Priority function	MIC 1 has the priority than other input
Protection	Short circuit, overload and overheating protection.
Input power	~120V 60Hz
Power Consumption	200W
Dimension	300×88×280mm
Weight	3.9Kg

# PUBLIC ADDRESS SYSTEM

