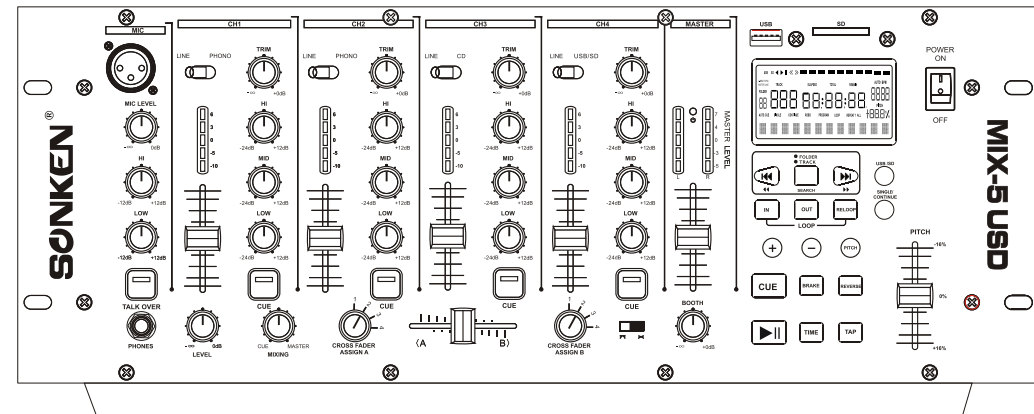


SONKEN®

MIX-5 USD



USER'S MANUAL

Thank you for buying this product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference. In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However the method of connecting and operating the unit is the same.

CAUTION:
This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

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

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

CLEANING — Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool, and the like.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION — The appliance should be installed in a stable location.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

LIGHTNING — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

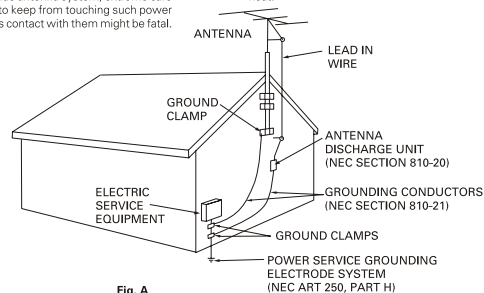
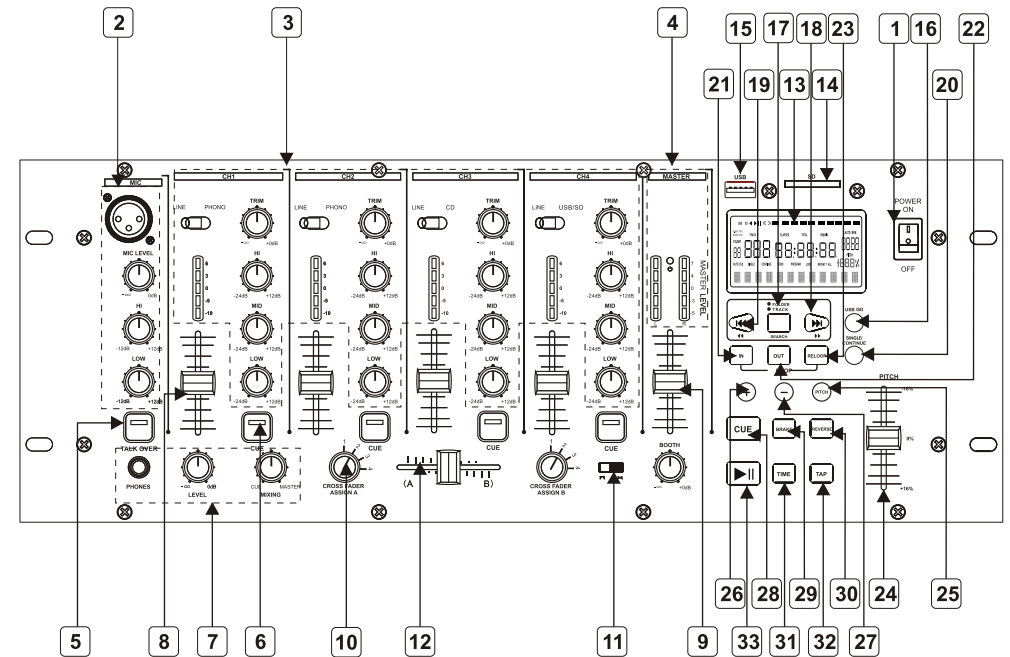
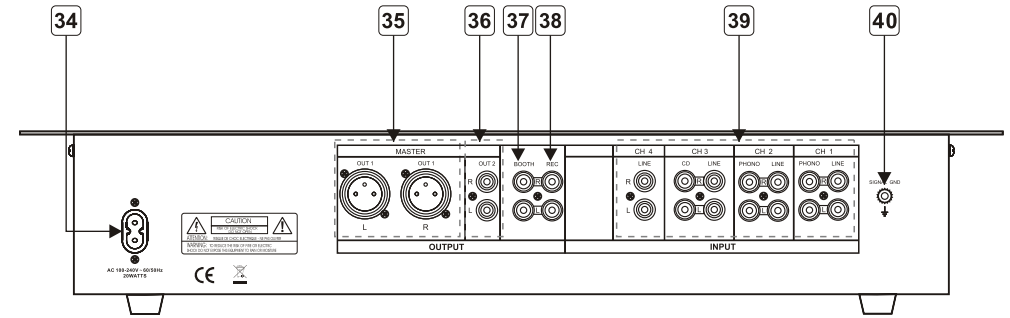


Fig. A

NEC — NATIONAL ELECTRICAL CODE

PART NAMES AND FUNCTIONS



1 POWER(Power Supply Switch)

2 Main Microphone Input Terminal and Microphone Control Knob

Main Microphone Input Terminal:

For connecting a microphone that has a cannon-type terminal.

MIC LEVEL (microphone level):

Adjusts the volume of the main microphone.

(Attenuation: ∞ to 0dB)

HI:

Adjusts high-tone microphone sound.

At the center position, sound is flat.

Turn to the right to increase sound (to +12dB at 10kHz).

Turn to the left to decrease sound (to -12dB at 10kHz).

LOW:

Adjusts low-tone microphone sound.

At the center position, sound is flat.

Turn to the right to increase sound (to +12dB at 100Hz).

Turn to the left to decrease sound (to -12dB at 100Hz).

3 Input Selector Switches, Control Knobs, and Peak Level Meters for CH-1 to CH-4

Input Selector Switches:

These switches select what input source to use from among the units connected to each channel.

CH-1: Switches between LINE and PHONO

CH-2: Switches between LINE and PHONO

CH-3: Switches between LINE and CD

CH-4: Switches between LINE and USB/SD

TRIM:

Adjusts the input signal level.

Turn to the right to increase level (to +0dB).

Turn to the left to decrease level (to ∞).

HI:

Adjusts high-tone input sounds.

At the center position, sound will be flat.

Turn to the right to increase sound (to +12dB at 13kHz).

Turn to the left to decrease sound (to -24dB at 13kHz).

MID:

Adjusts mid-tone input sound.

At the center position, sound will be flat.

Turn to the right to increase sound (to +12dB at 1kHz).

Turn to the left to decrease sound (to -24dB at 1kHz).

LOW:

Adjusts low-tone input sound.

At the center position, sound is flat.

Turn to the right to increase sound (to +12dB at 70Hz).

Turn to the left to decrease sound (to -24dB at 70Hz).

Peak Level Meter:

Displays peak level, held for 2 seconds.

Displays level before it is subjected to the channel fader.

Display range: -10dB to +6dB.

4 MASTER LEVEL (Master Level Meter)

Displays the output level following master volume adjustment, held for 2 seconds.

Display range: -5dB to +7dB.

5 TALK OVER

Press this switch and the sound level for everything other than the main microphone will decrease to around 14dB, and a red LED will light. To restore original status, press this switch again.

Caution: Pressing this switch will cause sudden, major changes in the volume.

6 HEADPHONES CUE

HEADPHONES CUE:

Used to select the source (CH-1 to CH-4) to be monitored with headphones.

Press it again to cancel the selection.

Pressing multiple buttons makes it possible to derive mixed sound from the selected sources.

7 Headphone Terminal and Headphone Output Control Panel

MIXING (mixing adjustment knob):

Adjusts headphone monitor sound.

Turn all the way to the right for master output sound.

(This applies only when the master was selected using HEADPHONES CUE.)

Turn all the way to the left for the sound from the channel (other than the master) selected with

HEADPHONES CUE.

At the center position, the levels for master output and the sound selected with HEADPHONES CUE will be even.

LEVEL (level adjustment knob):

Adjusts headphone monitor sound.

When CH-1 to CH-4 has been selected, the level is not affected by master volume (9).

PHONES (headphone terminal)

8 Channel Fader Volume

Adjusts the volume for CH-1 to CH-4.

9 Master Fader Volume

Adjusts the master output sound level.

10 CROSS FADER ASSIGN A, CROSS FADER ASSIGN B

Selects signals assigned to A and B when the cross fader is used with 2 sources (A and B).

1 to 4: Select what channels (CH-1 to CH-4) to assign to A and B.

Channels not assigned to A or B are output without passing through the cross fader.

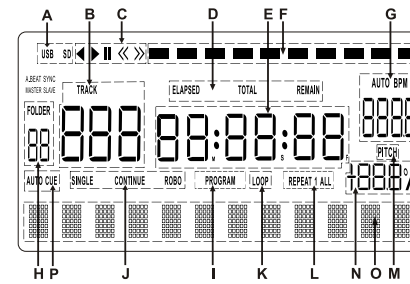
11 CROSS FADER CURVE (Cross Fader Curve Selection Switch)

Used to select one of 2 cross fader startup curves.

12 Cross Fader Volume

Used to adjust the sound mix volume of the sources set to A or B using the ASSIGN switch (10).

13 DISPLAY



A. SD CARD/USB INDICATOR

B. TRACK NUMBER

This displays the position, number of track of the USB or SD CARD, which is playing.

C. OPERATING MODE

These indicate the operating mode of the USB or SD CARD player

▶: The USB or SD CARD player is playing the USB or SD CARD.

||: The playback is paused.

D. TIME MODE INDICATORS

ELAPSED: Played time of the selected track.

TOTAL REMAINING: Total remaining play time of the USB or SD CARD.

REMAINING: Remaining play time of the selected track.

E. MINUTE, SECOND AND FRAME DISPLAYS

These displays show the current time, the value changes depends on the time mode selected.

F. TIME BAR INDICATOR

This is a graphical representation of the "Minute, second and frame displays" (c).

G. BPM

Display the BPM of the track displayed.

H. FOLDER DISPLAY

I. "PROGRAM" INDICATOR

This indicates the player is in programme mode

J. PLAY MODE INDICATORS

SINGLE: The USB or SD CARD player is in single mode.

CONTINUE: The USB or SD CARD player is in continue mode.

K. "LOOP" INDICATOR

This indicates the USB or SD CARD player is currently playing in a preset loop.

L. REPEAT INDICATOR

REPEAT 1: The USB or SD CARD player is playing the selected track repeatedly.

REPEAT ALL: The USB or SD CARD player is

playing the entire USB or SD CARD repeatedly.

M. "PITCH" INDICATOR

When the "PITCH" display, the pitch slider just have function.

N. PITCH DISPLAY

This indicates the playback speed (pitch), from 16% to +16%.

O. ID3 COMMUNICATION DISPLAY

P. "CUE" INDICATOR

This indicates a new cue is set.

14 SD PORT

Insert the SD card.

15 USB PORT

Insert the USB.

16 SD/USB BUTTON

- Press the first: control the SD card function.

- Press the second: control the USB function.

17 FOLDER/TRACK

- Press the button.

when the lamp is bright, is "FOLDER" state; then press the "+" or "-" button, you can choose any folder; otherwise, is "TRACK" state, press the "+" or "-" button, you can choose any track.

18 "▶▶"

In "FOLDER" mode, is next folder; in the "TRACK" mode, is next track.

Press the keystroke more than 1s, it will start-up double-quick forthcome function.

19 "◀◀"

In the "FOLDER" mode, is last folder; in the "TRACK" mode, is last track.

Press the keystroke more than 1s, it will start-up double-quick backwards function.

20 SINGLE/CONTINUE BUTTON

Press these to switch between the SINGLE and CONTINUOUS play mode. The selected mode is indicated on the LED. In SINGLE mode, after each track, the unit stop the reading. In CONTINUE mode, the unit read all track and stops.

21 IN BUTTON (LOOP SYSTEM)

This button sets the beginning of the loop. The Loop indicator on the display flashes.

22 OUT BUTTON (LOOP BUTTON)

When you press this button, you set the end point of the seamless loop and you start the loop. To finish the loop, press again this button.

- 23 RELOOP BUTTON (LOOP SYSTEM)**
This button is used to start the last saved loop.
- 24 PITCH CONTROL**
Use this fader to increase or decrease the speed of the track.
- 25 PITCH BUTTON**
If you push this button, the adjustment of the pitch potentiometer is available
- 26 PITCH BEND + BUTTON**
The pitch will automatically rise when the + button is pressed and return to the original pitch when it is released.
- 27 PITCH BEND - BUTTON**
The pitch will drop while the - button is pressed and return to the original pitch when it is released.
- 28 CUE BUTTON**
- In pause mode use the search button to search the position you want.
- Now press play button.
- Press CUE button will go back to where you start.
- 29 BRAKE BUTTON**
When this button is pressed, it's indicator lights for the brake dsp affect.
- 30 REVERSE BUTTON**
When this button is pressed, it's indicator lights and the unit is set to reverse play.
- 31 TIME BUTTON**
Use this knob to choose the time mode: Elapsed time, remaining time or total remaining time.
- 32 TAP**
Press the TAP button repeatedly to the beat of the music to manually determine the speed of the track. The display currently reads the value in BPM(=beats per minute).
- 33 PLAY / PAUSE BUTTON**
Each time you press the PLAY/PAUSE button, the operation changes from play to pause or from pause to play.
- 34 AC CORD**
Used this cable to connect the AC mains power to the unit.

- 35 BALANCED OUTPUTS**
The MIXER has balanced XLR outputs controlled by the master output rotary.
- 36 MASTER RCA OUTPUT**
Connects the mixer to your main amplifier using standard audio cables with RCA-type connectors.
- 37 BOOTH**
These jacks are used to connect the mixer to your monitor with RCA cable.
- 38 RECORD RCA OUTPUT**
The record output jacks can be used to connect the mixer to the record input of your recording unit, thus enabling you to record your mix with RCA cables.
- 39 PHONO (PH/N) and LINE RCA INPUTS**
The MIXER has 2 PHONO (PH/N) and 4 LINE RCA INPUTS each channel has two corresponding lines and can be chosen via the channel line switches. When switched to the PH position you may use any Turntable with a magnetic cartridge, remember to connect your ground wire (see GROUING SCREW) or there may be a system hum.
And when the switch is in the LN position you may connect any line level device as described (Mp3, CD, Tape etc).
Now you may plug the RCA's from your playable medium into each input to be connected to their respective CHANNELS (CH).
- 40 GROUNDING SCREW**
Connect the cord for the analog player's ground. This terminal is exclusively for an analog player and is not a safety earth.

SPECIFICATION

Input terminal (input level/impedance)

CD/LINE	300mV/22kΩ
PHONO.....	5mV/47kΩ
MAIN MIC	5mV/3kΩ
MIC.....	5mV/3kΩ

Frequency characteristics

CD/LINE/PHONO/MIC	20Hz to 20kHz
-------------------------	---------------

SN ratio

CD/LINE	86dB (with effects off)
PHONO.....	76dB
MIC	69dB
Total harmonic distortion rate	
CD/LINE/PHONO.....	Below 0.02%
Cross talk	Over 70dB

Channel equalizer

HI	+12dB, -24dB (13kHz)
MID.....	+12dB, -24dB (1kHz)
LOW	+12dB, -24dB (70Hz)

Microphone equalizer

HI	+12dB, -12dB (10kHz)
MID.....	+12dB, -12dB (1kHz)
LOW	+12dB, -12dB (100Hz)

Electrical Section, etc.

Power supply voltage	AC 100-240V ~ 60/50Hz
Power consumption	20W
Operating temperature	+5°C to +35°C
Operating humidity	5% to 85%
External dimensions	483 (W) x 178 (D) x 80 (H) mm