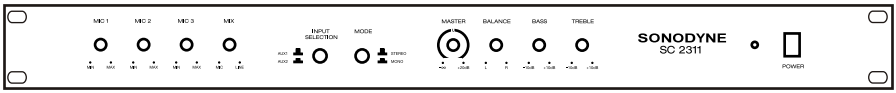
SONODYNE

SC 2311

stereo mixer preamplifier • owners manual



MADE IN INDIA
since 1970

INTRODUCTION

Congratulations on your purchase of this unique preamplifier.

Our years of experience in installed sound has resulted in a feature-loaded device that will meet most installed sound needs. The SC 2311 performs admirably as a line mixer with intuitive priority allocations and overrides, and as a preamplifier, providing low noise, low distortion signals to your power/ booster amplifiers. With 3 mic, 2 line ins, and a priority alarm in, it will make your installation a breeze to set-up and operate. So go ahead and produce your signature sound with the SC 2311.

CONNECTIONS

All the XLR inputs and output sockets on the SC 2311 have the following pin configurations:
1 - GND
2 - HOT (+)
3 - COLD (-)

All the TRS sockets on the back panel have the following pin configurations:
TIP - HOT (+)
RING - COLD (-)
SLEEVE - GND

To connect any MIC with an XLR socket, simply use a 2-core MIC cable of the desired length having a male XLR socket on one end which plugs into the MIC socket, and a male XLR socket on the other end which connects to the preamplifier, following the pin connections stated above. There is no provision of PHANTOM POWER.

OPERATIONS

1. Keep POWER switch in OFF position

2. Make all input and output connections

3. Keep MIC 1 - MIC 3 controls at their minimum position, MIC/ LINE mixing control at its centre position, BALANCE, BASS and TREBLE at their centre position, and VOLUME at its minimum position.

4. Keep line input selector in the position for which the input (AUX1 / AUX2) has been connected, and MODE switch in the STEREO position. If you have a mono line input, keep mode switch in MONO position

5. Connect the mains cord to a 230V utility outlet.

6. Switch on power. The power indicator LED on the front panel will glow.

7. If you wish to check the mic first, advance the level control of the MIC that you have selected to about 2 O'Clock position, gradually turn up the volume while speaking into the mic. Adjust MIC level control and/ or volume control as desired.

8. To check line level, turn on source and adjust the volume control.

9. To mix Line and Mic, just carry out steps (7) and (8) together. To make the MIC input more prominent than the LINE input, turn the MIC/ LINE mixing control counterclockwise, & vice versa.

10. SC 2311 has priority ALARM input for fire alarm protection where if it senses signal it automatically mutes all other inputs . Connect fire alarm or supervisory system output to the ALARM input . If MIC1 PRIORITY switch is pressed MIC1 will get priority over all the inputs (except ALARM) but, when the ALARM signal is sensed ALARM gets priority. When ALARM or MIC 1signal is removed, the selected line input is connected after a delay of 5 - 10 seconds.

    We recommend that you test and adjust the level of the alarm source before setting it permanently, so that the desired alarm level comes through the PA.

11. If you wish to use the PC soundcard output as the source, please use the AUX2 input. It has integral protection for high voltage spikes or leakages that might occur when a PC soundcard is connected. The PC earthing may not always be proper and we strongly suggest that you use AUX2 only, for ensured system protection

FIG. 1: FRONT PANEL LAYOUT

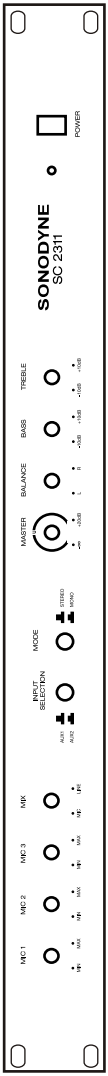


FIG. 2: REAR PANEL LAYOUT



TROUBLESHOOTING

SYMPTOM Power LED doesn't glow/ no output

REMEDY Check that mains cord is plugged in. Check fuse on back panel. (For replacing fuse, unscrew the fuse holder and replace fuse with exact equivalent)

SYMPTOM Microphone inputs not working

REMEDY Check position of LINE/ MIC mixing level control. Move it to MIC position (extreme anti-clockwise) if you do not want to mix with LINE input , check if the MIC1 priority switch is depressed , if yes then only MIC1 will work when you try to use more than one microphone.

SYMPTOM Hum present in system

REMEDY
A. Check that the earth terminal of the utility AC socket is connected to the earth bus
B. Check that the earth is not shared with any other 'noisy' equipments like light dimmers, arc lamps etc

The stereo preamplifier shall provide low-noise, low distortion preamplification, switching and signal processing for permanent installation or sound reinforcement applications. The preamplifier shall have 3 MIC inputs and 3 stereo line level inputs (1 balanced, 2 unbalanced). Out of the 3 stereo line level inputs, one pair shall be a balanced input via TRS socket (AUX 1) and the remaining two pairs shall be unbalanced inputs via RCA socket (AUX2, ALARM) . Out of these inputs, one pair shall be a priority input (ALARM), which shall override all inputs. MIC1 is 2nd priority input which gets priority on rest of the inputs (except ALARM) provided that the MIC1 PRIORITY switch is depressed (accessible from the rear panel).The line level inputs shall be switch-selectable (AUX1/AUX2) provided on the front panel. The MIC inputs shall have individual level controls. There shall be a mixing control to control the relative signal strength between MIC and LINE inputs. The preamplifier shall feature a Baxandall type bass - treble control and a master volume control together with a balance control for left and right channels. There shall be a mode switch on the front panel to switch between mono and stereo mode. All MIC inputs shall be female XLR type and all balanced inputs shall be TRS type. All unbalanced inputs shall be RCA type. Pin connections of XLR and TRS type shall conform to international standards.

The preamplifier shall have 2 stereo outputs out of which one is a balanced output via TRS socket (L&R) and a unbalanced output via RCA socket (PREOUT).

The preamplifier shall be a Class I equipment with a 3-pin molded plug to suit 230V AC outlets. Switching off power shall be controlled by a front panel mounted rocker switch with an LED power-on indicator. Protection shall be provided by a rear panel mounted glass cartridge fuse and fuse holder.

The preamplifier shall be the SONODYNE model SC 2311.

SPECIFICATIONS

DESCRIPTION	Professional stereo mixer preamplifier
INPUTS	3 Mic inputs (fully balanced) via XLR socket 1 balanced stereo line level input via TRS (AUX 1) 2 unbalanced stereo line level inputs via RCA socket as follows : AUX 2 (L&R), ALARM (L&R)
OUTPUTS	1 unbalanced line level stereo RCA output 1 balanced line level stereo TRS outputs
CONTROLS AND SWITCHES	Master volume control, Balance, Bass, Treble, Mic/ Line MIX Control, individual Mic level controls, selector switches for AUX1 & AUX2, STEREO/MONO mode selection switch, one power switch & one rear panel accessible priority control switch which provides priority to MIC 1 over all channels except ALARM
FREQUENCY RESPONSE	10Hz ~ 20kHz, ±3dB
INPUT SENSITIVITY (FOR 1V OUTPUT)	AUX 1: 140mV AUX 2: 130mV ALARM: 180mV MIC: 2mV
INPUT IMPEDANCE	AUX 1: 44kΩ (balanced) AUX 2: 47kΩ ALARM: 10kΩ MIC: 1kΩ (balanced)
CROSS TALK (1 kHz)	Better than 65dB
CHANNEL SEPARATION	55dB (1kHz)
S/N RE(MIC/LINE)	Better than 85dB (5V output)
THD	0.02% @ 1kHz
BASS	±10dB at 100Hz
TREBLE	±10dB at 10kHz
POWER REQUIREMENT	230V AC @ 50Hz
POWER CONSUMPTION	15V A max
DIMENSIONS (WxHxD)	483mm x 44mm x 168mm
NET WEIGHT	2.3kg

NOTE: Due to continuous improvements, all specifications are subject to change

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If you have anything less than a 5 star experience,
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