

Solice Mini Audio Mixer Operation Manual



For Mixers with PCB Version 3.0

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Professional Sound Corporation

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TOP VIEW



REAR PANEL VIEW



LEFT SIDE PANEL VIEW



RIGHT SIDE PANEL VIEW



MAIN OUTPUT METERS VIEW

Introduction

Thank you for purchasing the Professional Sound Corporation Solice Mini Portable Audio Mixer. The Solice Mini is the result of our desire to provide you with a comprehensive, yet simple to use portable mixer. The idea for developing this mixer came from Mr. Pascal Van Strydonck who volunteered many hours of his time outlining the need for a small, compact and flexible mixer.

Safety Warnings

The Solice Mini Audio Mixer has been designed to be inherently safe to use. It operates from low voltage DC only. The design complies with all current safety, environmental and RF emission regulations. The safe use of this product is determined primarily by the user. Please read and understand this entire user's manual before using your new Solice Mini Mixer. Proper cabling is a must in, on and around film and television production sets. Please always maintain proper and safe headphone monitoring levels. If improperly used, this mixer can output headphone levels that may result in permanent hearing loss. The owner and/or user are to determine safe operating levels and maintain these levels at all times. Professional Sound Corp, its owners, officers and employees accept no responsibility for misuse of this mixer, whether intentional or not that may result in personal injury and/or property damage. In addition, PSC reserves the right to be held harmless for any liability caused by the use of this mixer with any other equipment.

Overview

- Two Microphone Inputs with 48PH
- Six Line Level Inputs
- 100mm Long Through Faders
- Bright, Sun Light Readable LED Meters
- Limiters on All Inputs and Outputs
- Built in Slate Microphone
- Built in Reference Tone Oscillator
- Aux Feed with Private Line to Boom
- Pre-Fader Listens on All Inputs
- BNC Connector for use with Little Light
- Full Analog Mixer at Control Surface Price

- Works with All Brands of Recorders
- Compact, 4Lb (1.8Kg) Package
- Made in the U.S.A.

Construction

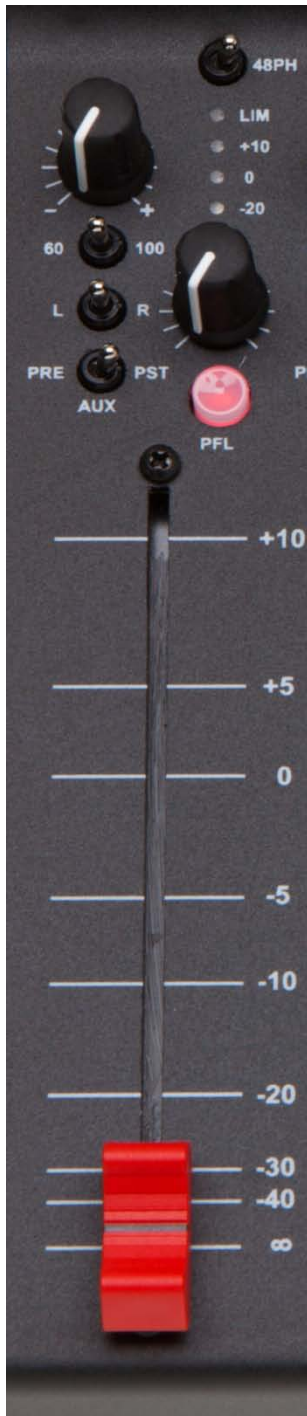
The Solice Mini's chassis forms a solid foundation for the mixer's electronics. The chassis is precision punched from aircraft grade sheet aluminum using state of the art CNC equipment. The resulting panel is then formed using automated CNC controlled press brakes. The side panels have been laser cut for smooth edges and an overall nice look.

The finished chassis parts are then black anodized and black powder coated with a fine wrinkle finish. This powder coating is super tough and should provide years of service in the field.

All silk-screen lettering on the Solice Mini is applied to the back side of tough Lexan tm overlays. Printing the lettering and graphics on the back side of a clear overlay provides years of wear free use. Your fingers only rub against the sturdy surface of the clear Lexan rather than wearing the lettering off as happens with standard top surface silk-screening. After years of use, if your Lexan overlays begin to get scratched or damaged, they can be replaced to re-new the appearance of your Solice Mini.

The aluminum side panels are attached to the Solice Mini using 6 pieces of 3/16" long, 6-32 screws. You must only use these same length screws when attaching the side panels or when using these side panel attachment points for mounting your mixer to a sound cart. The use of longer screws will damage the circuit boards within the Solice Mini and must be avoided.

Input Channel Panel View



48 Phantom Mic Power
Switch

High EQ Limiter LED
 +10dB LED
 0dB LED
 -20dB LED

Hi Pass Filter

Pan Switch Gain Control

Aux Send Pre-Fader

Listen

100mm Fader

Microphone Inputs (CH1 and CH2)

The Solice Mini audio mixer's two microphone inputs have been designed and optimized to provide excellent pre-amplification of microphone level signals. They will work equally well with either dynamic or condenser microphones.

Microphone Powering

The Solice Mini's two microphone inputs are equipped to provide 48PH microphone powering to DIN standards. Each of the two microphone input channels has an individual power filter on the 48PH power lines. This provides isolation between input channels and helps keep the noise floor down when using powered microphones. 48PH microphone powering should only be used with 48PH microphones. When using dynamic style microphones, the microphone powering should be switched off. You should also turn off the microphone powering when using wireless receivers.

Line Inputs (CH3 through CH8)

Input channels three through eight are designed for use with wireless receivers. These are line level inputs. They have been optimized to work with nearly any wireless receiver with a line level output. Typically we recommend that you set the line level output on your wireless receiver to -15dB or -10dB and then adjust the gain setting on the Solice Mini's input channel to match that audio level. We recommend the -10dB or -15dB setting on your wireless to maximize the headroom on the wireless output.

Pre-Amplifiers

The Pre-amplifiers used in the Solice Mini mixer were originally designed for our flagship Solice Mixer. This design is the result of many engineering hours. This new super low-noise design uses the latest in high performance semiconductors. The semiconductors used in the pre-amplifier design offer impressive specifications while consuming reasonable amounts of power. The fully variable gain structure of the pre-amplifiers allows for gain changes on the fly. You no longer have to worry about those coarse "stepped" gain changes found in other mixer designs. The rotary gain control offers 40dB of adjustment range for extreme flexibility. This allows the Solice Mini mixer to work with low gain Dynamic microphones as well as high gain condenser microphones.

Gain Setting

Because the Solice Mini mixer is equipped with Pre-fader input channel meters you can easily adjust pre-amplifier gain settings quickly and easily. The Pre-fader meter can be used to properly set the pre-amplifier gain. Simply adjust the gain setting until the meter occasional “peaks” to the Amber (yellow) “0” LED. Once set, you can mix without worry as you have approximately 22dB of additional headroom in the pre-amplifier before clipping occurs.

High Pass Filters

Each input channel of the Solice Mini mixer is equipped with a 3-way switchable high pass filter (low frequency roll off). The filters are very useful for eliminating wind rumble and air conditioning noise. As a general rule, you should only use as much low frequency roll off as needed to get a good recording. The switch is labeled 60 and 120. This refers to the frequencies of the high pass filters. The 60 setting provides a moderate high pass filter function (low frequency roll off). The 120 setting provides a more aggressive filtering function. The 120 setting is typically only be used in high wind locations and situations.

Equalization

The Solice Mini mixer High frequency equalization. The High frequency equalization is centered at approximately 5KHz. The High EQ level control offers approximately +/- 10dB of adjustment. It is primarily used to brighten audio from hidden lavalier microphones and for matching the sound between lavalier and boom microphones.

Limiters

Each input channel of the Solice Mini mixer is equipped with a precision limiter. These limiters are always switched on. They are not activated until the audio level reaches a certain pre-determined level (threshold). They are designed to save you from input channel overload and clipping. The limiters will automatically activate when supplied with audio that is at and beyond the preset threshold level. The limiters then begin limiting and the Blue “LIM” LED at the top of the input channel meter LED’s will begin to glow. The limiters have an internal adjustment for activation threshold level. The limiters are factory set to activate at +16dB and they limit at a ratio starting at approximately 2.7 to 1 up to a ratio of approximately 50 to 1. These ratios were chosen based on years of customer feedback. Please note that the limiters must be adjusted only by qualified technician who has access to precision test equipment. Do not try to adjust these limiters yourself.

Pan Switch

Each input channel is equipped with a pan switch. This pan switch routes the post fader audio to either the Left or Right or Both summing amplifiers. The switch is labeled “L and R”. If you move the toggle towards the “L” that channels post fader audio will be routed to the Left summing amplifier and Left main output. If you move the switch to the center position, that channels post fader audio will be routed to both the Left and Right Summing amplifiers and main outputs. If you move the switch toward the “R” that channels post fader audio will be routed to the right summing amplifier and main output only.

Aux Send Switch

The auxiliary send switch is used to route individual input channel’s audio to the auxiliary bus and output. This switch is labeled as “Pre and Post”. When this switch is moved toward the “Pre” setting, pre-fader audio from that channel will be sent to the aux summing amplifier and output. When the Aux switch is set to its middle position, it is turned off and no audio will be sent to the auxiliary summing amplifier and output. When this switch is set to the “Post” setting, post-fader audio is sent to the auxiliary summing amplifier and output. The aux send switch is typically used to route one or more input channels to the aux summing amplifier and output. The auxiliary output is then used to feed a transmitter to send audio to the boom operator or to send audio for other needs such as feeding a Comtek transmitter to transmit audio to the director.

Direct Line Output:

Each input channel on the Solice Mini mixer is equipped with a dedicated direct line output. This output can be used to feed multi-track recorders when recording separate tracks for each actor. The direct line output is located on the rear of the mixer and is labeled “Outputs” All eight direct line outputs are available on one DB-25 connector. These dedicated line outputs can drive up to a +22dBm signal for maximum headroom. These outputs use the same high quality electronics as the main mini XLR outputs. Because of this, they offer the same low noise and high headroom characteristics as the main outputs.

Channel Fader

The Solice Mini mixer is equipped with long throw (100mm) faders. These faders offer a full range of control over your audio signals. The channel faders offer approximately 70dB of control range at your finger tips. The mixer overlays are labeled with coarse lines marked with 5dB and 10dB increments under the fader knobs for operator convenience. Recommended normal operating range is at

the “0” line. This will leave you with an additional 10dB of signal range if needed for those hard to mix actors.

Pre-Fade Listen Switch

Each input channel of the Solice Mini mixer is equipped with a Pre-Fader Listen switch. These latching pushbutton switches are located at the bottom of each input channel. When pressed, pre-fader audio from that individual input channel is routed directly to the Mixer’s headphones. Thus the mixer can quickly and easily monitor individual microphones (or wireless) without having to open the channel fader (pot up that channel) This allows the mixer to check on the audio quality and level of any individual microphone even while recording using other inputs. When pressed and activated, the switches light up RED. To de-activate them, simply press them once again. You can also use more than one PFL switch at a time if needed.

Output Panel View



Main Output Level
Output Trim
Limiter Switch

LED Brightness Aux
Level

Headphone Select Volume

Reference Oscillator

Slate Mic Slate Level

Private Line
(slate element)

Power Switch

The main power switch for the Solice Mini mixer is located just to the right of the main output meters. This switch controls an internal relay which powers up the entire mixer.

Reference Oscillator

The Solice Mini mixer is equipped with a Reference Tone Oscillator. This oscillator is used for setting reference levels at the beginning of all recordings. These levels are used later in editing to match all scene levels so that your finished audio is consistent and high quality. When the Reference Oscillator button is pressed, a 1 kHz oscillator is activated and can be routed to the main left and right outputs as well as the eight individual dedicated channel outputs. These dedicated channel outputs are typically used for multi-track recording. Whenever the reference oscillator is activated, all eight of the input channels are automatically muted. This allows only a pure reference tone to be recorded for easier editing later.

The routing of the reference tone oscillator is set using dip switches located inside the mixer. This dip switch has 10 small switches. The switches are numbered for your use. Switches 1 through 8 are used to send the reference tone oscillator signal to any of the 8 direct outputs. Simply set the switches to "ON" to send oscillator audio to the given output. Switch number 9 is used to send the reference tone to the Main Left and Right Outputs.

LED Brightness Switch

The Solice Mini mixer is equipped with a 3-way LED brightness switch. The DIM setting is used for indoor sets and other dimly lit areas. The MEDIUM setting can be used for brightly lit indoor conditions. The BRIGHT setting is for use outdoor in full sunlight. Please be cautious when using the BRIGHT setting as the LED output is very bright.

Slate Microphone, Internal and External:

The Solice Mini mixer is equipped with a built in Slate Microphone used for voice slating of takes, mixer voice notes, etc. This same built in microphone is used for the Private Line function that allows the mixer operator to talk to the boom operator. When the slate microphone is activated, it can be routed to the main Left and Right outputs as well as to any and/or all of the eight input channels. In addition, all eight of the input channels are momentarily muted for better slating clarity.

The routing of the slate microphone audio is set using dip switches located inside the mixer. This dip switch has 10 small switches. The switches are numbered for your use. Switches 1 through 8 are used to send the reference tone oscillator signal to any of the 8 direct outputs. Simply set the switches to "ON" to send

oscillator audio to the given output. Switch number 9 is used to send the reference tone to the Main Left and Right Outputs.

External Slate Microphone

If you prefer to use an external slate microphone rather than the internal slate microphone, you must simply plug an appropriate microphone into the external slate microphone 3.5mm connector located on the right side, front edge of the mixer near the mixer's headphone jack. These two jacks were purposely placed next to each other to allow the use of headsets with built in microphone booms. The external slate microphone input jack contains switch contacts that automatically switch over from internal slate microphone to external as soon as you plug in the external microphone. The external slate microphone jack is wired for use with nearly any tow wire, positive bias electret microphone. The tip is used for both audio and microphone bias voltage. The ring connection is not used and the case or shield connection provides ground.

Slate Microphone Gain

The slate microphone gain can be adjusted by using a small (Greenie) screwdriver. The adjustment trim pot is located just to the right of the slate microphone switch. It is labeled as "SM ADJ". Turning the trim pot clockwise will raise the slate microphone level. Turning the trim pot counter-clockwise will lower the slate microphone level.

Private Line

The Solice Mini mixer is equipped with a private line function which allows the mixer operator to speak to the boom operator at will. When this momentary switch is pressed, the slate microphone is routed to the auxiliary output which is generally used to feed a signal to the boom operator. Thus, the mixer can talk to the boom operator.

Tape Returns

The Mixer's headphone monitoring section allows the use of tape returns. These "Tape Return Audio Inputs" are contained on the TB3M "Returns" connector on the rear panel of the Solice Mini mixer. There are two tape returns "Left" and "Right". These tape returns allow the operator to monitor "Tape" confidence (an old, outdated, but still used term for recording verification) to insure that audio is actually being recorded. Some recorders offer this recording confidence as an output which can be connected to the Solice Mini mixer's return inputs. When

the operator desires to check the tape inputs, he or she simply switches the headphone select rotary switch to “Return” and your headphones are automatically switched to monitor the tape return inputs. If you are not using any form of tape monitoring, you can also use this input to be able to monitor an iPod or other similar audio source for your convenience.

Headphone Selection

The headphone feed has a rotary selection switch that has five positions. They are labeled as:

- LEFT** Provides Left output channel audio to both ears
- STEREO** Provides Stereo audio to the headphones
- RIGHT** Provides Right output channel audio to both ears
- MONO** Provides a Mono Mix of the Left and Right Audio
- RETURN** Provides Return audio in Stereo mode

The headphone outputs are rated to operate into headphones with impedances from 20 to 600 ohms. As with all headphone use, please monitor your headphone volume carefully and always use the lowest practical volume setting. Excessive sound pressure levels may cause permanent hearing loss. Remember, your ears are your livelihood, Turn it Down!

Headphone Volume

Headphone volume is adjusted by using the volume pot located just to the right of the headphone audio selection switch. This headphone volume control allows a full range of adjustment from fully off (counter clock-wise) to fully on (clock-wise). Please be careful when setting headphone volume levels as excessive headphone levels may cause permanent hearing damage. User determines proper and safe operating levels depending on make and model of headphones used.

Peak Reading Meters



The Solice Mini mixer is equipped with two output meters. Each of these meters is LED based and read from -30dB to +20dB. They are color coded for ease of use. All LEDs representing audio levels from -30dB up to -8dB are Green in color. The LEDs that represent a -6dB through +4dB levels are Yellow in color and all LEDs from +6dB up to +20dB are Red in color. These meters are peak reading and have ballistics that are conducive to quality field recordings.

Main Output Level Adjustment

The Solice Mini mixer is equipped with a 3-way output level switch and also an output fine trim pot. The output level switch allows the operator to select from three common output levels. +4dBm which is considered a professional audio level, -10dBv which is considered a consumer line level and -20dBv which can be used to feed transmitters at line level with considerable head room. Please make sure that this switch is set to the appropriate level to match the audio equipment you are feeding signals to. The trim pot can be used for fine adjustments on the fly if needed with overly loud actors and similar situations.

Little Light BNC

There is a BNC connector located to the left of the main output meters. This connector provides DC voltage to operate a typical Little Light. It can be used with either incandescent or LED lights.

Rear Panel View



EXT POWER, LINK CONNECTOR, RETURN CONNECTOR, LEFT, RIGHT AND MONO BALANCED OUTPUTS, AUXILIARY BALANCED OUTPUT, SLATE MICROPHONE BALANCED OUTPUT, DIRECT AUDIO OUTPUTS, CHANNEL AUDIO INPUTS.

Main (Left, Right and Mono) Mini XLR Outputs

The Solice Mini mixer is a two buss mixer and thus has two main balanced outputs. The balanced outputs are located on the rear panel of the mixer and utilize “mini” size 3 pin male XLR connectors. These outputs offer exceptional headroom with a clipping level of approximately +23dBv. Based on a nominal output level of 0dBV, you still have 23dB of headroom before clipping occurs. These balanced outputs are also very low noise for use with today’s modern digital recorders. They offer an output impedance of 50 ohms and are designed to operate into loads of 600 ohms or greater.

Auxiliary Output

The auxiliary output is a line level, balanced output. It can be used to feed various devices such as a transmitter to transmit audio to a boom operator.

External Power Connection

The Solice Mini mixer is powered from any source of external DC with a voltage range of 10 to 18Vdc. The Solice Mini is a negative ground chassis. External power is applied to the Solice Mini mixer via the 4 pin male external power connector located on the rear panel of the mixer. Pin 1 is Ground and Pin 4 is 10 to 18Vdc. The mixer will operate from +10 to +18 volts DC without any adjustment or compromise in specifications. There are no advantages to operating the mixer from 18 Vdc over that of 12Vdc as found on some other designs. The mixer typically consumes approximately 7 watts (650mA @ 13.8Vdc). The mixer will consume up to a worst case of about 10 watts when all LEDs are lit. This is unlikely in normal use.

DO NOT SUPPLY THE SOLICE MINI MIXER WITH DC VOLTAGES THAT ARE IN EXCESS OF 18VOLTS DC! DAMAGE TO THE MIXER WILL RESULT AND THIS DAMAGE WILL NOT BE REPAIRED UNDER WARRANTY.

Slate Output

The slate output feeds live slate microphone balanced audio at line level. This can be used with some digital mixer/recorders that have a communications input. When used this way, the slate microphone can be used for a communication input and thus, you will not have to use an additional microphone for this purpose.

Link Connector

The link connector provides audio to and from the summing amplifier. You can use this connection to connect or “Link” two Solice Mini mixers. You can also use it as a summing input to accept audio from another small auxiliary mixer. Audio feed into the Link connector will be routed to the Left and Right summing amplifiers and main outputs.

Multi-Pin Connectors

The rear panel of the Solice Mini mixer is equipped with two DB-25 connectors.

One is used for the eight (8) balanced inputs. The other is used for the eight (8) direct, balanced outputs. These two connectors can be used as an insert point to insert the Solice Mini if you use the appropriate db-25 fan-in and fan-out cables.

SPECIFICATIONS:

Size:	13.125" wide, 10.250" deep, 2.00" high 34cm wide, 26cm deep, 5.1cm high
Weight:	4 Lbs, 1.8 Kg
Operating Temperature:	-20F to +120F, -7C to +49C
External Power:	10 to 18Vdc, approx 7 to 10 watts
Meters:	LED, Peak Reading, Multi-Colored
Slate Microphone:	Electret Condenser
Reference Oscillator:	1KHz
Frequency Response:	20Hz to 20Khz +/- 0.5 dB
Distortion:	0.03% THD, typical
Signal to Noise Ratio:	128db EIN
Cross Talk:	>75dB @1Khz, via assignments
XLR Output Levels:	+4dBm at "0" Reference Level.
XLR Output Impedance:	<25 Ohms, 600 Ohm rated
Tape Return Impedance:	1K Ohm
Channel Output Level:	+4dBm at "0" Reference Level

Solice Mixer Connector Pin Outs

External Power **XLR-4-Male** **Pin 1 = Ground**
Pin 2 = N.C.
Pin 3 = N.C.
Pin 4 = +10 to +18Vdc

Channel Inputs:

INPUT NUMBER	DB-25 Female wiring:		
	HOT	COLD	GROUND
1	24	12	25
2	10	23	11
3	21	9	22
4	7	20	8
5	18	6	19
6	4	17	5
7	15	3	16
8	1	14	2

Note pin 13 is N.C.

Channel Outputs:

INPUT NUMBER	DB-25 Male wiring:		
	HOT	COLD	GROUND
1	24	12	25
2	10	23	11
3	21	9	22
4	7	20	8
5	18	6	19
6	4	17	5
7	15	3	16
8	1	14	2

Note pin 13 is N.C.

****NOTE**** DB-25 wiring conforms to Tascam DA-88 standards.

Left Output **TB3M** **Pin 1 = Ground**
Pin 2 = Audio High
Pin 3 = Audio Low

Right Output **TB3M** **Pin 1 = Ground**
Pin 2 = Audio High
Pin 3 = Audio Low

Mono Output **TB3M** **Pin 1 = Ground**
Pin 2 = Audio High

		Pin 3 = Audio Low
Aux Output	TB3M	Pin 1 = Ground Pin 2 = Audio High Pin 3 = Audio Low
Slate Output	TB3M	Pin 1 = Ground Pin 2 = Audio High Pin 3 = Audio Low
Returns Input	TB3M	Pin 1 = Ground Pin 2 = Left Input Pin 3 = Right Input
Link Connector	TB5M	Pin 1 = Ground Pin 2 = Left Sum Amp Input Pin 3 = Right Sum Amp Input Pin 4 = Left Sum Amp Output Pin 5 = Right Sum Amp Input
Mixer Headphone	¼" TRS	Tip = Left Out Audio Ring = Right Out Audio Sleeve = Ground
Ext Slate Mic Input	3.5mm TRS	Tip = Audio and +Bias Ring = N.C. Sleeve = Ground

RoHS Certificate of Compliance

Professional Sound Corporation certifies that all products designated by Professional Sound Corporation as “PB-Free”, “RoHS Compliant” or “Green” are compliant with the requirements of the European Union’s Restriction on Use of Hazardous Substances (“RoHS”) Directive, 2002/95/EC.

Professional Sound Corporation bases its material content knowledge on information provided by third parties, including parts manufacturers, distributors and vendors. Only RoHS certified parts and sub-assemblies are used in the assembly of Professional Sound Corporation products. Additionally Professional Sound Corporation has taken and continues to take commercially reasonable steps to insure that its parts suppliers, subcontractors and assembly houses are RoHS compliant.

Level A Banned Substances	Threshold, Homogeneous Level
Asbestos	Not intentionally added
Azo colorants	Not intentionally added
Cadmium	100 ppm, Not intentionally added
Hexavalent Chromium	1000 ppm, Not intentionally added
Lead	1000 ppm, Not intentionally added
Polybrominated Biphenyls (PBB’s)	1000 ppm, Not intentionally added
Polybrominated Diphenyl Ethers (PBDE’s)	1000 ppm, Not intentionally added
Polychlorinated Biphenyls (PCB’s)	Not intentionally added

Professional Sound Corporation certifies that all products made on or after June 30th, 2006 to be RoHS Compliant. All such products will be clearly marked with Professional Sound Corporation “compliant” label. This label assures the reseller end user that the product is RoHS Compliant. An example of this label is shown below:



Ronald Meyer
President

Date: July 1st, 2006

CE

DECLARATION OF CONFORMITY

EMC: This product is in compliance with the Electromagnetic Compatibility Directive, 89/336/EEC as defined in EN 50081-1, EN55022 and EN 50082-1. IEC801-2, IEC801-3 and IEC801-4.

LVD: This product is in compliance with the requirements of the Low Voltage Directive, 73/23/EEC. 93/68/EEC as defined in EN60065, 1993 and/or EN60950/A1/A2/A3: 1995

TRADE NAME: PSC

MODEL: Solice Mini Mixer

RESPONSIBLE PARTY: Professional Sound Corp.
28085 Smyth Drive
Valencia, CA 91355 USA

CONTACT PERSON: Ronald Meyer
(661) 295-9395

TYPE OF PRODUCT: Analog Audio Mixer

MANUFACTURER: Professional Sound Corp.
28083 Smyth drive
Valencia, CA 91355 USA

We hereby declare that the equipment bearing the trade name and model number listed above has been tested in accordance with the requirements contained in the above listed directives. All necessary steps have been taken and are in force to assure that production units manufactured will conform to Directive guidelines.

July 2014

Professional Sound Corporation.

PSC Solice Mini Mixer Limited Warranty

Professional Sound Corporation warrants the Solice Mini Mixer to be free of defective material and workmanship for a period of one year from the original date of purchase and agrees to repair or replace such defective parts or the whole product at its option, provided that the equipment is returned to Professional Sound Corporation. Shipping and insurance costs to and from Professional Sound Corporation must be prepaid by the owner. This warranty does not cover damage due to accident, careless handling, abuse or misuse, improper connection and/or installation, improper electrical contact or grounding. This warranty will be null and void in the event of removal, alteration or tampering with the serial number, or by breakage of the product case seal, or by service or repair work not performed by Professional Sound Corporation. Proof of purchase date (copy of invoice or Warranty Certificate) must be furnished before warranty service will be performed. This warranty is in lieu of any other warranty, expressed or implied, including warranties without limitation, products being merchantable at the time of purchase or suitable for a particular purpose. This warranty does not extend to, or include consequential damage.

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