

SMX.501
PROFESSIONAL DJ MIXER
OWNER'S MANUAL



stanton

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WELCOME!

Thank you for making Stanton your first choice in professional DJ mixers.

Our innovative family of mixers has been developed with input from the professional DJ community. Stanton offers an affordable combination of user-friendly mixers with functional design, rugged construction and professional quality features which had been previously unavailable.

Stanton and your authorized Stanton dealer are dedicated to your complete satisfaction by offering benchmark service and support throughout the long life of your Stanton product.

We appreciate your patronage, and look forward to many years of making music together.

PLEASE READ CAREFULLY BEFORE USE

FAILURE TO FOLLOW THE INSTRUCTIONS PRINTED BELOW MAY VOID WARRANTY

- Follow all security advice printed on your mixer
- When removing the unit's AC plug from the power source, grasp and pull the plug, NEVER the cord itself!
- Avoid placing your mixer near heat sources, such as power amplifiers.
- When in use, place your mixer on a stable surface, away from vibration. Always use care when carrying your mixer. Impact, or heavy vibration may compromise the unit's mechanical integrity. The manufacturer is not responsible for damage resulting from an impact, or misuse.
- When in use, place your mixer away from sources of hum or noise, such as transformers, or electric motors.
- To prevent overheating, always provide your mixer with adequate ventilation air space.
- Avoid stepping on your mixer's AC cord. Repeated compression of the cord may lead to electrical shorting.
- To avoid damage due to AC voltage peaks, always disconnect your mixer from the power source during electrical storms. If possible connect mixer to a surge protector.
- Your mixer contains no user-serviceable parts. The manufacturer is not responsible for any damage or personal injury resulting from unauthorized user-servicing or modifications. In addition, the warranty will be void if any unauthorized service by the user is detected. Always return your mixer to an authorized Stanton dealer for servicing.

SMX.501 FEATURES



This hybrid 3-Channel, "Techno / Scratch" mixer will appeal to both Turntablist and Club/Rave DJs alike. Nowhere else can DJs find so many features included with the design of a battle mixer. The SMX.501 is a "one of a kind" mixer that combines the best of both worlds and bridges the gap between Battle & Club DJs.

- 3-channel scratch mixer
- Assign effects loop to each individual channel, plus the mic
- Custom High Quality P&G (Penny & Giles) Crossfader with VCA curve adjustment and crossfader assign
- Assignable Crossfader (A, B, Bypass)
- VCA Crossfader curve control and reverse
- Curve control and reverse on Linefaders
- Each channel features a gain control, slider Pan, and a versatile 3-band EQ with complete KILL
- Balanced XLR master output (unbalanced RCA also provided)
- Booth output
- Rotatable 3 Position phono/line switch with flash feature
- Separate channel input and master output LED meters
- Headphone mute
- Dual headphone outputs (1/4"/6.3mm and 1/8"/3.5mm)
- Fully assignable Send/Return connections for external effects
- Pre Fader Listen (PFL) of channels and effects loop with Cue Pan control
- 3 line, 3 phono, and 2 mic inputs
- Mic channel features gain controls and a 3-band EQ
- Channel fader reverse switch
- Protekt Panel
- User replaceable faders
- OS2 compatible

DESCRIPTION OF FUNCTIONS



DESCRIPTION OF FUNCTIONS

CHANNEL STRIPS



GAIN

Controls the input level of each channel. An LED meter is provided on each of the 3 channels.

HI, MID, LOW (EQ)

Individual controls for high frequency, midrange, and low frequency equalization with +9dB/Kill adjustments. *Note: Any changes made to EQ settings will change the overall output level.*

CURVE

The Line Fader Curve Control adjusts the curve of the input faders between short, mid, or long fade.

PAN

Controls left/right output balance of each channel.

REV

Reverses the direction of each line channel fader. When the line fader reverse function is engaged, the volume for that channel will be full when the fader is down. As the fader moves upward, the volume will decrease.

FX

This is an ON/OFF switch for the effects loop. The level is controlled by the Send and Return knobs. *See Master Section for details.*

INPUT SELECT

These toggle switches select the input source between phono and line for each channel. The FLASH position can be used for transforming and scratching effects.

LINE FADER

Controls the output volume of each channel. The signal is routed to the line faders after the gain, EQ, pan, and effects.

DESCRIPTION OF FUNCTIONS

MASTER SECTION



MASTER

Controls the overall output level of the mixer.

SEND RETURN

Send and Return levels are used to control the volume of the external effects unit connected to the SMX.501 using the effects loop. SEND is the level of the signal sent to the effect unit, and RETURN is the level of the processed signal returning from the effects unit.

BOOTH LEVEL

Controls the output level for the booth output. This is basically a 2nd output. It is usually used for monitoring in a DJ booth, but can be used for various applications.

CUE PAN

Fades the headphone output between the PFL signal (selected by the Cue Select buttons) and master output, effectively allowing the user to preview a mix.

CUE SELECT

Selects the channel(s) - 1, 2, or 3 - to be previewed in the headphones.

CFX (Cue FX)

Routes the signal from the effects to the headphones allowing the user to preview the effects mix in the headphones.

MFX (Master FX)

Routes the signal sent to the master output through the effects loop. This simply means that all audio coming out of the mixer will be processed. This is very useful for effects such as filters or compressors.

DESCRIPTION OF FUNCTIONS

MICROPHONE SECTION



MIC 1

Controls the input level of Microphone input 1.

MIC 2

Controls the input level of Microphone input 2.

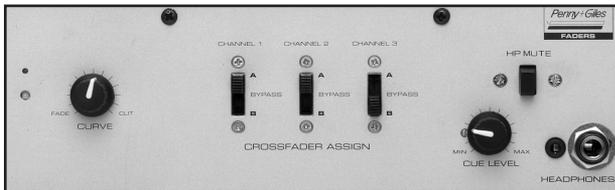
HI, MID, LOW (EQ)

Individual controls for high frequency, midrange, and low frequency equalization with +9dB/Kill adjustments. The EQ controls both Microphone inputs. *Note: Any changes made to EQ settings will change the overall output level.*

FX

This is an ON/OFF switch for the effects loop. The level is controlled by the Send and Return knobs. *See Master Section for details.*

FRONT



CURVE

The Crossfader Curve Control adjusts the curve of the fader from a short cut to a long fade.

CROSSFADER ASSIGN

This is used to assign a channel to either side of the crossfader or to bypass it. A is the left side, B is the right side.

CUE LEVEL

Controls the volume of the headphone output.

HEADPHONE MUTE

This is a mute button that can be used to turn off the headphones without readjusting the volume.

HEADPHONES

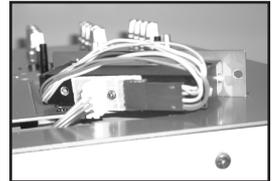
This is the headphone output jack to connect your headphones.

FADER CLEANING AND REPLACEMENT

After constant use the SMX.501 faders may need to be cleaned and lubricated from time to time. This will ensure long life and keep a smooth feeling throughout the fader's lifetime. Follow the instructions below to lubricate and clean your faders:

Removing a fader:

1. Make sure mixer is powered off and power supply is disconnected from back of mixer.
2. To remove the Protekt Panel, take off the 4 main fader knobs and then remove the 4 screws located at the corners of the panels. Lift the panel to remove.
3. Remove the fader to be cleaned or replaced by unscrewing the 2 outer screws on the fader plate (removing the 2 inner screws will detach the fader from the fader plate).
4. Disconnect the fader from mixer by removing the 4-pin connector on the bottom of the fader.



Installing a fader:

1. Once original fader has been removed, simply plug the 4-pin connector into the new fader.
2. There is a recessed button on the left end of the front panel which switches the mixer circuit between a standard fader and the Focus Fader (not included). Use a pin or thin screwdriver to access the button. When the LED above the button is lit, the Focus Fader circuit is engaged. When using a P&G fader, make sure the LED is off.



3. Place fader back in mixer and replace 2 outer screws to secure fader.

Cleaning a Penny & Giles fader:

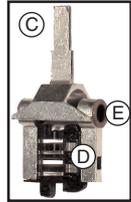
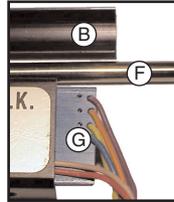
1. Remove 2 mounting screws from fader plate. (NOTE: The P&G fader is designed with floating mounting threads for precise mechanical centralizing of the fader. If you desire to keep your fader's current mounting position we suggest that you make 2 marks on both ends of the fader on the fader plate to indicate the P&G fader position.) See Figure 1.
2. Once fader is removed from unit, remove the two screws (A) from the end of the fader body where the wires exit the fader casing. Pull away the end block. Withdraw the dust cover (B). Taking great care, remove the slider assembly (C), ensuring that the wiper contacts (D) are not damaged as this will



Figure 1

DESCRIPTION OF FUNCTIONS

affect the operation of the fader. Clean the slider assembly by gently wiping the wiper contacts and slider bearings (E) using a tissue or cotton bud. If slider bearings are excessively worn, as indicated by excessive slider rocking then contact Stanton for replacement.



3. Remove the single upper screw on the opposite end block to remove the guide rail. Clean the guide rail (F) with a tissue or cloth, removing all traces of dirt and contamination.



4. Remove the fader track (G) by slowly withdrawing from the unit. Place fader track on desk or working surface with black contacts facing upwards. If necessary, the track can be washed in warm water, wiped gently then dried thoroughly using a dry cloth. Use a lint free cloth or swab to wipe the tracks and check for marks along the track. (Note: Lint free cloth should be used to avoid dust/fibers being deposited on the track). If the track appears excessively worn, or if cleaning does not improve operation, replacement may be necessary.



5. Examine the center channel of the fader body and if dirty, clean using cotton buds.
6. Re-assemble and lubricate the fader as follows:

- 6.1) Secure the end block and guide rail onto the fader body.

- 6.2) Insert track into the fader body.

- 6.3) Insert slider assembly onto guide rail and into the fader body. Move slider from end to end to disperse the oil evenly. Carefully wipe away any excess oil using a tissue or cloth.

- 6.4) Lubricate the guide rail by placing one drop of silicon liquid oil onto the guide rail (F).

- 6.5) Insert dust cover.

- 6.6) Insert fader track back into fader body with wires coming out open end of fader body.

- 6.7) Secure the remaining end block ensuring that the track wires (I) are not pinched between the end block and fader casing.

7. Once assembled, move the slider from end to end to ensure operation is smooth.
8. Attach fader to fader plate. (NOTE: As noted earlier if you do not want to change positioning of fader, keep the 2 fader plate screws loose and shift the fader until it is aligned with the marks you created in step 1, then tighten fader plate screws.)

TECHNICAL SPECIFICATIONS

Line inputs:	2 (RCA) x 3 channels, -10 dBV /10 kOhm
Phono inputs:	2 (RCA) x 3 channels, -50 dBV / 47 kOhm
Mic inputs:	2 (1/4") -50 dBV /100 kOhm
Return inputs:	2 (1/4"), -10 dBV / 10 kOhm
Send output:	2 (1/4"), -10 dBV
Master output:	2 (XLR Balanced/RCA unbalanced), +4 dBu balanced / -10 dBV unbalanced
Record output:	2 (RCA), -10 dBV / 100 Ohms
Booth output:	2 (RCA), -10 dBV / 100 Ohms
Headphone output:	1 (1/4 inch), greater than 32 Ohm load
Frequency Response:	20 Hz - 20 kHz, + 0.5/-2 dB
Tone Control :	+ 9/-40 dB (Hi, Mid, Low)
Max Gain:	14 dB
S/N Ratio:	Better than 100 dB (ref: max input level)
T.H.D	Less than 0.05% (1 kHz)
Dimension(LxWxD):	14" x 10.25" x 4.75"; 355 x 260 x 120)mm
Weight:	9.25 lbs 4.2 kgs

REPLACEMENT PARTS

The following user replaceable parts are available from your local Stanton dealer.

LF501	Channel input fader
CF-PG110	Penny & Giles crossfader
CF-F2	Focus Fader V2
OS2	Optical Scratch Switch (phono/line selector)
PP501	PROTEKT™ panel
PS-RM19US	US Power Supply (110v)
PS-RM19EU	European Power Supply (220v)
PS-RM19UK	UK only Power Supply (240v)

WARRANTY

Stanton Magnetics, Inc. – Warranty Provision – Returns for Repairs or Replacement

Warranty

Through Stanton's authorized dealers around the World, Stanton, or one of Stanton's authorized distributors outside the U.S., will, without charge, repair or replace, at the sole discretion of the entity responsible for making the repair or providing the replacement, any Stanton merchandise proved defective in material or workmanship for a period of one (1) following the date of original purchase. Exceptions to this warranty are as noted below:

The warranty for mechanical parts which are subject to wear and tear are limited to the earlier to occur of thirty (30) days following the date of original purchase or the following number of cycles: Faders - 15,000; Rotary potentiometers - 10,000; and Switches - 10,000.

Stanton will warrant all replacement parts and repairs for ninety (90) days from the date of original shipment. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Returns

Authorized Stanton dealers are only authorized to sell and distribute merchandise within a specific country. All goods requiring warranty repair or replacement must be returned (freight prepaid if not hand-delivered) to the authorized Stanton dealer from whom the merchandise was purchased and in the same country where the merchandise was purchased. For purposes of purchases made via the Internet, the merchandise must be returned to the authorized Stanton dealer in the country where the authorized Stanton dealer which sold the merchandise to purchaser is located and not the authorized Stanton dealer in the country where the purchaser is located or the country in which the merchandise was received. Any returns to a non-authorized dealer or to an authorized Stanton dealer not in the same country as the merchandise was intended to be sold or as set forth above will void this warranty.

To initiate a warranty repair, you must contact the authorized Stanton dealer from whom you purchased the merchandise, and follow such authorized Stanton dealer's return policy.

Stanton assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the merchandise. Stanton's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party, or product liability, and relating to the merchandise shall not exceed the price received by Stanton from your purchase of such merchandise. In no event will Stanton be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Stanton or otherwise. To the extent permitted by law and except as otherwise provided above, Stanton disclaims any express or implied warranties of merchantability or fitness for a particular purpose.

The above warranty provides you with specific legal rights. You may also have additional rights, which are subject to variation from state to state and country to country.

If there is a dispute regarding the warranty of merchandise that does not fall under the warranty conditions stated above, please include a written explanation with the merchandise when returned pursuant to the terms and conditions set forth herein.

Please register your product online at www.stantondj.com or mail your completed warranty card to:

Stanton Magnetics, Inc, 3000 SW 42 St. Hollywood, Florida 33312.