

WENDT NGS X4 AUDIO MIXER OPERATIONS DESCRIPTIONS

FRONT PANEL



1. Fader Controls – The faders are marked CHANNEL 1 thru CHANNEL 4 which correspond to the mic XLR inputs also marked CHANNEL 1 thru CHANNEL 4. These channel faders control the post preamp gain.
2. Master Fader – The master fader marked MASTER controls the gain of all four channels and has a detent at the 0db reference position (normal operating position).
3. Battery Test – The push button switch marked BATT allows a battery voltage test which is indicated on the right VU meter. A set of new batteries will indicate up to and including the 0db position on the meter.
4. VU Meter Illumination – The VU meter illumination is controlled by a momentary push button switch called LAMP. The meters will be illuminated for approximately 12 seconds and then return to off.
5. Low Cut Filters – The switches marked 140 20 100 insert a 12db per octave hi pass filter in each channel as follows: the 20 position is a flat response to 20HZ, and the 100 and 140 positions roll off at 100HZ and 140HZ.
6. Reference Tone – The TONE button when pushed IN (push on/push off switch) enables a 400HZ reference tone oscillator which provides a 0db VU reference tone to the right and left line outputs. The push button OUT position disables the tone.
7. Slate Mic – The push button switch marked MIC when pushed in, enables the slate function to be outputted to the left and right line outputs.
8. Power Monitor – The LED marked BATT slowly flashes on and off under normal power voltage conditions and turns to a continuous ON when external power or battery voltages are dangerously low.
9. HP Monitor Control – The switch marked L STEREO R allows the operator to switch the headphones to left ear, or stereo (normal position).
10. Meters – The two meters, right and left, are calibrated in VU (PPM optional, BBC std.).

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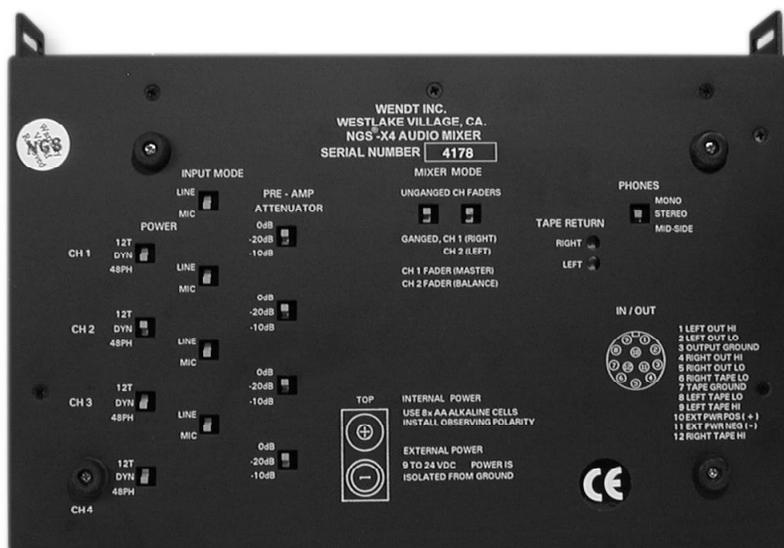
RIGHT SIDE PANEL



1. Mic Volume – The trim pot marked MIC VOL is a screwdriver slate mic gain control adjustment.
2. Line/Mic Outputs – The right and left line outputs provide electronically balanced line or mic levels. Each output can be switched from line level to mic level using the MIC-LINE switch. In the LINE position full drive capability is available and in the MIC position the line level is attenuated by 50db.
3. Mic Out – The 3.5mm jack marked MIC OUT provides single ended stereo outputs which are 50db below line levels.
4. External Power – The 2.1mm jack marked EXT PWR allows the unit to operate from an external power source of 9V – 18V. The center pin of the connector is the negative terminal.
5. Pan Switches – The switches marked L CTR R allow assignment of the individual channels to the left and right mixing busses. The center position assigns each channel to the right and left busses.
6. Battery Compartment – Eight AA batteries are required for the mixer powering and must be inserted per the diagram shown on the bottom cover.
7. Tape Return – The switch marked MIX TAPE is the tape return switch and in the TAPE position accepts tape return signals via the 12 pin connector on the left panel. The tape return is a high impedance input which will accept either balanced or unbalanced signals. Right and left gain adjustments are accessible on the bottom panel.
8. Headphone Volume – The knob marked MONITOR VOLUME controls the headphone volume.
9. Limiter – The stereo limiting function is controlled by the switch marked LIMITER (OUT IN) where the limiting function is enabled in the IN position.

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BOTTOM PANEL



1. Mic Powering – The mic powering switches labeled POWER and 48 DYN 12T allow three modes of MIC power, 48V phantom, 12V T power (pin 2 is positive voltage) for use with T powered mics and the dynamic (DYN) position which is non powered for dynamic mics.
2. Preamplifier Gain – The switches labeled PRE-AMP ATTENUATOR and 0db, -20db, -10db control the preamplifier gain where 0 is maximum gain, 10 reduces the gain by 10db, and 20 reduces the gain by 20db. The 10 and 20 positions are typically used for powered mics.
3. Input Mode (Mic/Line) – The switches labeled INPUT MODE and LINE, MIC allow mic or line input to each channel where in the line position the input is attenuated by 50db.
4. Tape Return – The two trim pots labeled TAPE RETURN (RIGHT, LEFT) allow adjustment of the tape return signal gain.
5. HP Monitor Matrix Switch – The switch called PHONES has three operating positions – mono, stereo, and mid-side. This allows the headphones to be switched to any of the three modes.
6. Stereo and Mid-Side Recording – The switches marked MIXER MODE allow Channel 1 and Channel 2 to be used in a full stereo mode. When both switches are in the ganged position Channel 1 and Channel 2 mic inputs are controlled by Channel 1 fader and Channel 2 fader becomes the balance control. When switched to the ungangd position, which is the normal operating mode of the mixer, each channel is controlled by its own fader and assigned by its pan switch.

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LEFT SIDE PANEL



1. Mic Inputs, Channel 1 – 4 – The XLR mic inputs are electronically balanced where pin 1 is shielded ground, pin 2 is input high, and pin 3 is input low. Either pin 2 or 3 may be tied to ground.
2. Phone Jack – The jack marked PHONES is HP stereo output (6.5mm, ¼”).
3. Power Switch – The three position POWER switch marked INT OFF EXT allows the mixer to be powered from the internal (batteries) or an external power source. The center switch position is OFF (no power source is connected).
4. Battery Test – The push button switch marked BATT allows a battery voltage test which is indicated on the right VU meter. A set of new batteries will indicate up to and including the 0db position on the display.
5. Accessory Connector – A quick-release Hirose 12 pin connector provides accessibility to the mixer balanced line outputs, balanced tape returns and external power. The mating connector is Hirose part number HR10A-10P-12P.

LIMITED WARRANTY

Wendt Inc. NGS products are covered by a one year warranty to be free from defects in material and workmanship. In the event your Wendt Inc. NGS product needs repair, please call us for a return authorization and then carefully pack and ship it to us prepaid. We will repair or replace at our option and return ship via carrier and method of Wendt Inc.'s choice. This warranty does not apply to defects caused by misuse, abuse or altered goods. There are no express or implied warranties which extend beyond the warranty made here.

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