



MAGELLAN[®] PRE



ANALOG
BASS
PRE/DI

OWNER'S MANUAL

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PRODUCT DESCRIPTION – The MAGELLAN® PRE brings the performance and feature set of our popular Magellan series bass amps into a powerful, feature-laden, compact bass preamp/DI pedal. This is exactly what players have come to expect from the GENZLER® design team -- performance, versatility, and reliability. From natural, pristine, transparent reproduction of the bass instrument to classic, vintage harmonic textures with a “weighted feel to the notes”, the MG-PRE-PEDAL provides the tonal palette needed to cover all of the bassist’s tone requirements. All of which is housed in an aircraft-grade aluminum chassis with classic Genzler styling.

The MAGELLAN® PRE is a full featured preamp pedal with a wide-range input gain control, 3 band equalization with sweepable mids, our unique foot switchable dual curve adjustable contour circuits, foot switchable mute circuit, aux input, headphone output, balanced/unbalanced main output and balanced XLR direct output. The MG-PRE is also a great companion to our 4 ON THE FLOOR Classic Overdrive Pedal, CRASH BOX-4 Classic Distortion Pedal and RE/Q 5 band EQ + Filter Pedal.

INPUT VOLUME – This control sets the input signal level of the preamp and will affect the output level of the DIRECT OUT when used in the POST-EQ mode. This control is also used in conjunction with the MASTER VOLUME control to set the overall output level of the PREAMP OUTPUT and HEADPHONE OUTPUT jacks.

HIGH PASS FILTER (LOW CUT) – This control sets the low-frequency roll-off point of the signal and is used to reduce the low-frequency extension of the signal by rolling off the low frequencies as the control is rotated clockwise. This is an important feature in maintaining control over the extreme low end, which in many cases can become too boomy or muddy. While HPF’s have been standard in the pro-audio industry for decades, this is a more recent feature in bass amplifiers and preamplifiers. This filter provides additional mechanical protection to speakers from over-excursion by reducing the power delivered to the speaker below the point that the speaker can safely reproduce low frequencies. A second use for this filter is to roll off the sub-bass frequencies that can get out of hand in a boomy room or stage. A third use is for rolling off the very low end when overdriving the signal. This prevents the tone from becoming muddy, and preserves the naturally musical growl and grit of the overdriven signal, and a fourth use is for reducing the extreme low end when boosting the bass eq control, allowing for some unique low-mid voicings and increased low-mid clarity. Experimentation will be helpful in all of these applications.

CONTOUR – Our unique CONTOUR circuit offers variable control of 2 vastly different response curves. In either CURVE position, when the control is all the way off (CCW) the response curves are completely FLAT.

CURVE A (Blue): Provides a variable pre-shaped curve that boosts lows and highs while simultaneously cutting mids. The slopes are fairly gentle which keep the tone shaping very musical. This curve covers a wide range of sounds from flat to classic to modern depending on the position of the independent CURVE A control.

CURVE B (Amber): Provides a variable pre-shaped curve with attenuated high-mids and highs, a low-mid bump, and a slight roll-off of the lowest bass frequencies. Again, the slopes are fairly gentle which keep the tone shaping very musical. This curve is intended to provide sounds in the range of vintage amps and vintage cabinets that do not have tweeters. An independent CURVE B control is provided for this filter.

ACTIVE EQUALIZATION – The MG-PRE-PEDAL contains an active 3 band equalizer with shelving bass and treble controls and a sweepable parametric mid-range frequency control. The mid-range filter is typically (but not always) used to reduce or remove offending frequencies in the instrument, speaker cabinet, or room response; or to boost response to achieve a particular voicing. Spend some time experimenting so that the process becomes creative as well as corrective.

MASTER VOLUME – Adjusts the output volume to the PREAMP OUTPUT and HEADPHONE OUTPUT jacks, but does not affect the level to the DIRECT OUT in either pre or post eq modes.

CONTOUR FOOTSWITCH – Pressing the footswitch alternates the pedal’s operation between CONTOUR filters, CURVE A (BLUE LED) and CURVE B (AMBER LED).

MUTE FOOTSWITCH – Used to mute the INSTRUMENT INPUT signal. Pressing the footswitch alternates the pedal’s operation between MUTE (RED LED) and ACTIVE (BLUE LED).



INSTRUMENT INPUT – The MAGELLAN® PRE is equipped with a standard 1/4" instrument level unbalanced input. This input contains an FET input amp circuit with an "RFI" filter (radio frequency interference) to eliminate unwanted noise.

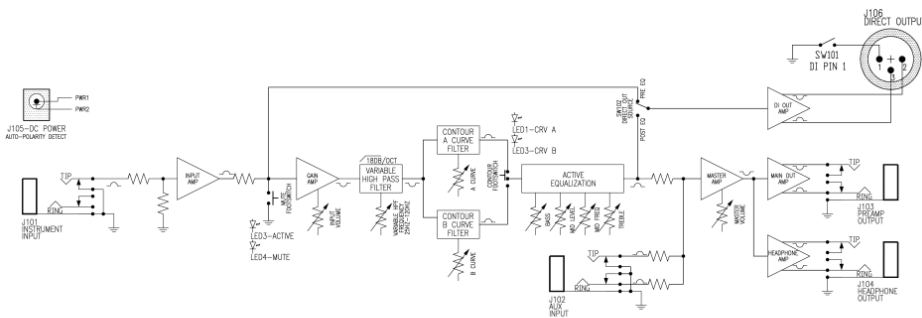
AUX INPUT – Used to input a line level mono or stereo auxiliary signal, and can be used for playback of tracks for rehearsal/practices. This input sums left and right signals from a stereo source to mono. NOTE: The signal from this input is not sent to the DIRECT OUT.

PREAMP OUTPUT – Used to output the preamp signal to other external devices. This can be used with a TS cable for an unbalanced output or with a TRS cable for a balanced output that is capable of driving a balanced +4dBu line level signal to a pro-audio power amp.

HEADPHONE OUTPUT – Used to drive stereo headphones or ear buds of all types (8 ohm - 200 ohm recommended -- see SPECIFICATIONS section).

DC POWER JACK – This pedal contains circuitry that auto-detects both the voltage and polarity of the attached power supply. The pedal will function properly from 9VDC to 18VDC, center positive or center negative polarity. For very high output basses and line level signals, it is recommended to use 12VDC or higher power supplies to avoid premature clipping of the signal and to provide increased headroom. 18VDC will provide the highest headroom and output. Be sure to use a low noise pedal type power supply. General purpose power supplies can introduce noise into the signal path.

XLR DIRECT OUTPUT JACK – Used to send a signal to a mixing console or recording interface. The signal is switchable between PRE-EQ and POST-EQ sources using the SOURCE switch and includes a PIN 1 (ground lift) switch to eliminate noise due to ground loops between the preamp and external devices. This signal is nominal mic level.



MAGELLAN PREAMP PEDAL BLOCK DIAGRAM
(REVISED 12/10/2022)

SPECIFICATIONS:

- DIMENSIONS:** 6" (152mm) W x 4.3" (110mm) D (w/ jacks) x 2.5" (63mm) H (w/ knobs and feet)
- WEIGHT:** 1.1 lb (0.5kg)
- POWER SUPPLY:** 9VDC-18VDC (low noise type), either polarity, 80mA
- POWER SUPPLY JACK:** 2.1mm center pin with 5.5mm barrel (standard Boss pedal dimensions)
- INPUT IMPEDANCE:** 1 Meg Ohm
- INPUT SENSITIVITY (nominal):** -10dBu to -20dBu (instrument level)
- INPUT SENSITIVITY (maximum):** >0dBu (9V supply), >+5dBu (12V supply), >+10dBu (18V supply)
- HIGH PASS Filter Range:** 25Hz – 120hz, 18dB/oct variable
- EQ Filter Points:**
 - LOW:** +/-15dB shelving below 75 Hz
 - MID:** +/-15dB peak-dip, between 150Hz – 2.8kHz
 - HIGH:** +/-15dB shelving above 6kHz
- PREAMP OUTPUT IMPEDANCE:** 1k ohm (unbalanced), 2k ohm (balanced)
- PREAMP OUTPUT LEVEL (nominal):** -10dBu to +4dBu (line level)
- PREAMP OUTPUT LEVEL (unbalanced maximum):** +8dBu (9V supply) +12dBu (12V supply), +16dBu (18V supply)
- PREAMP OUTPUT LEVEL (balanced maximum):** +14dBu (9V supply) +18dBu (12V supply), +22dBu (18V supply)
- DIRECT OUTPUT LEVEL (balanced nominal):** -30dBu (mic level)
- DIRECT OUTPUT IMPEDANCE:** 2k ohm (balanced)
- AUX INPUT IMPEDANCE:** 10 K Ohm
- AUX INPUT LEVEL (nominal):** -10dBu, stereo (sums to mono)
- AUX INPUT LEVEL (maximum):** +10dBu, stereo (sums to mono)
- HEADPHONE OUTPUT:** Drives headphones and IEM buds from 8 ohms -200 ohms, stereo output, mono signal path (higher impedance headphones, such as 600 ohms, will result in less output and headroom)