



MAGELLAN® 800+

ULTRA LIGHTWEIGHT 800 WATT BASS AMPLIFIER



OWNER'S MANUAL

PRODUCT DESCRIPTION – The original **MAGELLAN® 800** was our first amplifier design under the **GENZLER® AMPLIFICATION** brand and now after 10 years in service we introduce the next generation of this 800-watt professional, tour-class bass guitar amplifier the new **MAGELLAN® 800+**. This new model is the combined result of our stringent design and build expertise, along with quality circuit and component selections. Carrying forward the legacy of night-after-night reliability, the **MAGELLAN® 800+** reaches even higher achievements in performance with new features like a variable high-pass filter (HPF), foot switchable **CONTOUR** networks with separate controls, and dual parametric mid frequency EQ filters. All of which is housed in a rugged aircraft-grade aluminum chassis with a sleek custom extruded brushed aluminum front panel and still weighing in at only 6.25 lbs!

The **MAGELLAN® 800+** delivers the most powerful, feature-laden, compact bass amplifier available in its class. This new model goes beyond previous achievements, with improved dynamic response and feel, along with offering superior low-noise thresholds and increased dynamic headroom. This is exactly what players have come to expect from the **GENZLER®** design team – innovation, performance, reliability and versatility. The **MG-800+®** provides the tonal pallet needed to cover all the bassist's amplifier requirements: from natural, pristine, transparent reproduction of the bass instrument to classic, vintage harmonic textures with “weighted feel to the notes”.

The **MAGELLAN® 800+** is equipped with this expanded list of features: ¼” unbalanced instrument input; preamp stage clip detector; mute switch; input pad switch; GAIN control; foot switchable DRIVE circuit; variable high-pass filter (HPF); foot switchable, dual adjustable curve **CONTOUR** networks; 4 band active equalization with two sweepable midrange frequencies; master volume control; soft-clip power management circuitry; tuner output; aux. input; effects loop; balanced direct out with ground/lift, pre/post, and mic/line switches; headphone output; and 2 Neutrik NL4 speakON® speaker jacks. The power amp is a robust, lightweight Class D design and is supported by a state-of-the-art, high frequency switch-mode power supply (SMPS), which does away with the weight of a traditional power transformer. The **MAGELLAN'S®** power supply is an auto-sensing universal power supply, usable from 100-240 volts, lending itself to use anywhere in the world.



FRONT PANEL

INPUT – The **MAGELLAN® 800+** is equipped with a standard ¼” unbalanced input. The input stage contains an advanced, low noise FET input amp circuit with an input impedance of 1Meg ohms and an “RFI” (radio frequency interference) filter to eliminate unwanted broadcast noise.

MUTE SWITCH – With this switch, you can place the amplifier (and **DIRECT OUTPUT**) in MUTE mode between sets, without having to change any of your amp settings. This feature can also be used for silent tuning since the **TUNER OUT** stays active when the MUTE is engaged. A red LED indicates when the amp is in MUTE mode.

PAD SWITCH – This switch provides a -8.5dB pad to reduce the amp’s input level for instruments with high or “hot” output levels. This switch does not affect the tone or input impedance in any way, only the gain of the input stage.

PREAMP CLIP LED – This LED is above the **PREAMP GAIN** control and shows the operating status of the preamp and EQ stages. When this LED flashes, clipping of the preamp or EQ stages is occurring or about to occur. Adjusting the **GAIN** control down or engaging the **PAD** switch will remove the clip condition.

PREAMP GAIN – This control provides adjustment for the overall gain level of the preamp. When used in conjunction with the **PAD** and **DRIVE** switches it can provide a wide variety of tones from pristine clean to harmonically rich overdrive.

DRIVE SWITCH – This switch engages the **DRIVE** circuitry which is voiced to provide a more “driven” tonal signature and harmonic content along with a softer top end response. This circuit also emulates tube distortion and compression. When used in conjunction with the **PAD** switch and **GAIN** control it offers various stages of overdriven harmonic tonal characteristics from vintage to classic to modern. This feature is also foot switchable with the optional **MG-800+FTSW** two button foot switch (not included). The **FOOT SWITCH** jack is located on the rear panel.

NOTE – The front panel **DRIVE** switch must be in the **OUT** position for the foot switch to engage.

TIP – When setting up the amp to switch between both clean and drive tones, it is recommended to set the **PREAMP GAIN** to the desired drive tone in the **DRIVE** mode first and use the **MASTER VOLUME** level to set the overall level. Switching the **DRIVE** mode OFF will then return the amp to a similar clean tone level.

HPF – **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 natural musical growl and grit of the overdriven signal. 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 continuously variable control of 2 vastly different response curves. In either CURVE position when the control is all the way off (CCW) the response curve is 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 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.

A/B SWITCH – Switches between CURVE A and CURVE B. This feature is also foot switchable with the optional **MG-800+FTSW** two button foot switch (not included). The FOOT SWITCH jack is located on the rear panel.

NOTE – The front panel A/B switch must be in the OUT position for the foot switch to engage.

TIP – If you would prefer to switch only one of the curves IN and OUT then simply set the other curve to FLAT.

ACTIVE EQUALIZATION – The **MAGELLAN® 800+** contains an active 4 band equalizer with two sweepable parametric mid-range frequency controls. The mid-range filters are 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.

- BASS** +/- 15dB boost/cut shelving curve with a corner frequency of 75Hz
- LO MID** +/- 15dB boost/cut of the variable mid frequency selected by the LO MID **FREQ** control
Variable mid frequency from 120Hz-2kHz
- HI MID** +/- 15dB boost/cut of the variable mid frequency selected by the HI MID **FREQ** control
Variable mid frequency from 330Hz-3.7kHz
- TREBLE** +/- 15dB boost/cut shelving curve with a corner frequency of 6kHz

MASTER VOLUME – This control adjusts the overall volume of the amplifier and also adjusts the input level of the EFX LOOP RECEIVE and AUX IN jacks. Typically, best results are obtained when this control is operated between the 9:00 and 3:00 positions.

MASTER SECTION STATUS LED –

BLUE – Indicates that the low voltage power supplies are active and that the amplifier is ON and ready to operate.

RED – Indicates that the amp is in either “standby” or “protect” mode. The RED light will illuminate during power turn-on and turn-off to indicate “standby” mode. This is normal. It will also illuminate temporarily to indicate “protect” mode during any fault condition such as overheating or a short on the speaker outputs. If the MASTER LED does not eventually switch to BLUE but remains RED continuously, turn the amp off and consult a repair technician.



REAR PANEL

POWER INLET CONNECTOR AND POWER SWITCH – The **MAGELLAN® 800+** utilizes a rear panel power switch and power inlet IEC connector. Use the correct mains IEC power cord required for the country where the amp is to be used. The power supply auto-senses the correct voltage from 100V to 240 volts, 50 to 60 Hz for worldwide use.

NOTE – There is no externally accessible AC mains (line) fuse. The internal fuse is integral to the SMPS power supply and is not user serviceable. This fuse will not fail except under very unlikely fault conditions to the SMPS. If this occurs a qualified service technician is required to correct the problem.

POWER AMPLIFIER – The **MAGELLAN® 800+** uses a state of the art, class D power amplifier design and a high frequency auto-sensing universal switch-mode power supply (SMPS) to achieve unprecedented high performance and lightweight packaging. There are no Voltage Switches to change or jumpers to move. This SMPS senses the line voltage from 100-240 Volts and automatically configures itself. The correct detachable mains IEC power cable with the proper plug configuration for the voltage source and country of operation is required.

IMPEDANCE SELECTOR SWITCH – The design of the **MAGELLAN® 800+** incorporates a robust power section along with exceptional thermal management allowing for operation down to 2.67 ohms. This gives greater versatility when connecting different speaker cabinet configurations. Set this switch as follows:

IMPEDANCE OPTIONS

- 4 / 8 OHM selection: 1 x 8 ohm cabinet, **OR** 2 x 8 ohm cabinets, **OR** 1 x 4 ohm cabinet.
- 2.67 OHM selection: 3 x 8 ohm cabinets, **OR** 1 x 8 ohm cabinet + 1 x 4 ohm cabinet.

IMPORTANT – The **IMPEDANCE SELECTOR SWITCH** position must match the total speaker impedance used.

SPEAKER OUTPUTS – The **MAGELLAN® 800+** provides two Neutrik NL4 speakON® connectors (wired 1+/1-). The speaker jacks are paralleled and are compatible with cables that use either NL4 or NL2 connectors. The minimum speaker load is 2.67 ohms. **Do not ground either the “+” or the “-” outputs.**

PHONES – A 1/4” TRS jack is provided for connection to headphones / ear buds for silent practice use. A speaker load is not required. Do not connect this output to anything but headphones / ear buds. This jack provides a dual mono output capable of driving headphones and ear buds from 8 ohms - 200 ohms (higher impedance headphones, such as 600 ohms, will result in less output and headroom).

FOOT SWITCH – This 1/4" TRS connector is for connecting the optional **MG-800+FTSW** two button foot switch (not included). This allows for foot switch operation of both the DRIVE and CONTOUR features on the front panel. An instrument cable with TRS 1/4" connectors is required.

NOTE – The front panel DRIVE and CONTOUR A/B switches must be in the OUT position for the footswitches to engage.

EFX LOOP – A rear panel effects loop (SEND and RECEIVE jacks) is provided for connecting "serial" outboard devices such as compressors and may also be used for parallel type outboard devices (delays, reverbs, harmonizers, octavers etc.) by using the mix control located on the outboard device. This loop is located right before the MASTER VOLUME control in the signal path and is also intended as a Preamp Out / Power Amp In connection for possible "chaining" of amplifiers in a Master / Slave configuration. The effects loop contains a "normal switch" in the RECEIVE jack that interrupts the signal path when a plug is inserted into the RECEIVE jack. The SEND jack may be used for an aux. output without breaking the signal path.

AUX IN – A 1/4" stereo line level auxiliary input is provided that sums directly to the main output bus controlled by the MASTER VOLUME control. This input is ideal for practicing with recorded tracks from a phone, tablet, computer, etc. This input is a tip-ring-sleeve (TRS) type jack with built-in summing resistors that sum left and right signals when used with a stereo cable. This input will also work with a mono tip-sleeve (TS) plug. Adjust the level of the playback source to balance with the bass guitar's volume.

TUNER OUT – The **MAGELLAN® 800+** is equipped with a fully isolated tuner output. This jack is located after the front end scaling preamplifier but is pre-signal shape and pre-EQ. This output may also be used to drive a separate direct box or high-impedance recording device. The TUNER OUT remains active when the amplifier is muted, allowing for silent tuning on stage.

DIRECT OUTPUT – A low noise, XLR, balanced direct output is provided for connection to a PA system or directly into a recording studio console or A/D converter. The DIRECT OUTPUT signal may be switched between mic and line level, pre and post EQ, and the audio signal ground may be connected or lifted from pin 1 to eliminate hum due to ground loops. This output is fully protected against phantom power and may be used for driving microphone lines of up to 300 feet without problems.

FAN COOLING – The chassis is cooled via a thermal sensing fan design. The fan is normally ON and will increase in speed as demand on the amp increases. **Do not obstruct the left or right chassis vents.**

CHASSIS DESIGN – The **MAGELLAN® 800+** utilizes the highest quality, aircraft grade, computer machined, aluminum chassis. To clean the amplifier, nothing more than a damp cloth and a little bit of glass cleaner (like Glass Plus®) should be used.

MG-800+FTSW – Two button foot switch available as an optional accessory. This allows for foot switch operation of both the DRIVE and CONTOUR features on the front panel. An instrument cable with TRS 1/4" connectors is required.

NOTE – The front panel DRIVE and CONTOUR A/B switches must be in the OUT position for the footswitches to engage.



GIG-BAG – Our custom heavy-duty padded carry bag with shoulder strap is available as an optional accessory. This padded bag is ideal for convenient carrying of the amplifier. Do not operate the amplifier inside the carry bag, as the chassis' aluminum construction and cooling fan inlet vents are part of the amplifier's cooling mechanism.



SPECIFICATIONS

MAGELLAN® 800+

Rated Power: 400W/8ohms; 800W/4ohms; 800W/2.67 ohms

Minimum Impedance: 2.67 ohms

Dimensions: 3"H X 11.25"W X 10.5"D (76.2mm H x 285.75mm W x 266.7mm D)

Weight: 6.25 LBS (2.83Kg)

Product Type:	Audio Amplifier
Product Name:	MAGELLAN® 800+
Model Number:	MG-800+ (all versions)
Operating Power Condition:	100~240V, 50/60 Hz
Effective Date:	12/15/2025

SAFE OPERATING REQUIREMENTS:

- Never set an amplifier on anything that will tip over or collapse under its weight.
- Provide a minimum distance of 1 inch (25.4mm) around all sides of the amplifier for sufficient ventilation. The ventilation should not be impeded by covering the amplifier's vent openings with items such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the **MAGELLAN® 800+** amplifier.
- This amplifier should not be exposed to dripping or splashing and no objects filled with liquids, such as vases or drinks, should be placed on this product.
- The **MAGELLAN® 800+** amplifier should be connected to a mains outlet (power receptacle) with a protective earth (ground) connection at all times.
- The amplifier's mains plug (power plug) is considered the disconnect device and the connection must remain accessible at all times.
- This amplifier is capable of producing sound pressure levels that may cause hearing loss.
- There are no user serviceable parts and hazardous operating voltages are present inside this unit. Always consult a qualified repair facility for service.

WARNING!

- The use and operation of this device constitutes an agreement of full release of any and all liability connected with its use. Only persons familiar with the operation of high-powered professional audio equipment should attempt to operate this device.
- In addition, by use of this device, the user agrees to hold **GENZLER® AMPLIFICATION** and its designers, sales agents and all other affiliates and related parties harmless in the event of any accident, injury, damage, or loss resulting from such use.
- Manufacturer's sole responsibility is to provide a warranty on the specified performance of the product under normal operating conditions for a period of 3 years.

COMPLIANCE STATEMENT:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the equipment.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

WARRANTY:

- **GENZLER® AMPLIFICATION** warrants the model **MAGELLAN® 800+** to be free from defects in materials and workmanship for a period of 3 years from the date of purchase, when purchased from an authorized **GENZLER® AMPLIFICATION** dealer.
- This warranty does not cover normal wear and tear incurred from the normal designed use of the product.
- This warranty is effective only if a copy of the original sales receipt is presented at the time of warranty service.
- All warranty service must be performed by a **GENZLER® AMPLIFICATION** authorized service center.
- Before returning any unit for service, a returned merchandise authorization number (RMA#) must be obtained by emailing support@genzleramps.com.
- This warranty is valid in the US & Canada only. For all products sold outside the USA, warranty is handled through our international dealer or distributor for each country. All warranty registration should be completed on our website. For complete warranty information visit: www.GENZLERAMPLIFICATION.com.

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