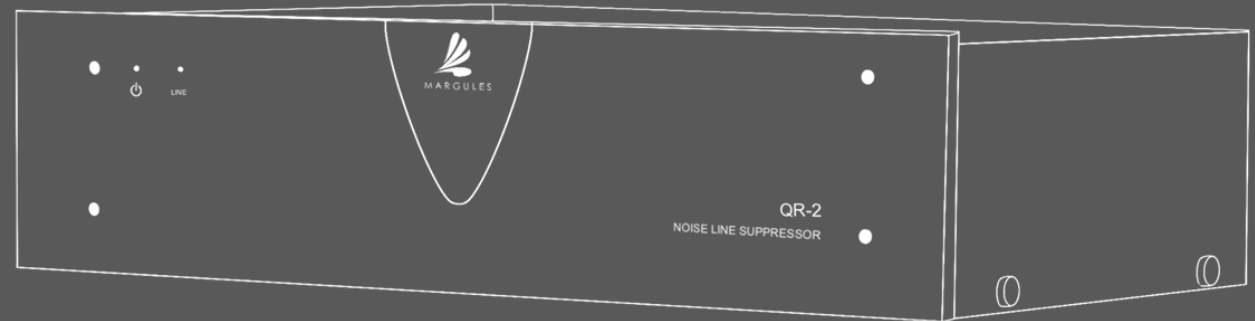




# MARGULES QR-2 NOISE LINE SUPPRESSOR

## Owner's Manual



The QR-2 provides a richer tonal balance, enhanced detail, and quieter backgrounds, allowing you to rediscover your favorite recordings with exceptional clarity and enjoy a truly engaging sound experience

Equipped with advanced LC filters, high-quality autotransformers, and a proprietary circuit, the QR-2 suppresses high-frequency noise and attenuates power line transients, significantly improving audio quality.

It also corrects DC offset, preventing the mechanical hum produced by the transformers in your audio equipment and provides added protection to your components by acting as a natural peak suppressor.

The QR-2 is the perfect match for Margules line of products, especially the U280 SC amplifier and SF220 preamplifier.

However, the QR-2 will enhance the clarity, detail, and resolution of any connected audio or video equipment.



### Owner's Manual:

Before connecting the QR-2, carefully read and follow all safety and operational instructions. Keep this manual for future reference.

### Accessories and Spare Parts:

Use only accessories recommended by Margules Audio. The use of unauthorized accessories may result in damage, malfunction, or safety hazards. If spare parts are needed, ensure that they are specified by Margules Audio and installed by authorized personnel. Using non-approved parts or service providers may void the warranty and compromise safety.

### Placement:

Do not place the QR-2 on unstable surfaces, stands, tripods, or tables. Improper placement may cause the unit to fall, leading to injury or damage. Do not place the unit near flammable materials or on surfaces that block ventilation.

**Water and Humidity:**

Do not operate the QR-2 near water or in humid environments. Do not expose the unit to outdoor conditions or rain.

**Object Insertion and Liquid Spills:**

Do not insert objects into the QR-2's openings, as contact with internal voltage points may cause electric shock or fire.

Avoid spilling liquids on the unit.

**Heat and Temperature:**

Keep the QR-2 away from heat sources such as radiators, stoves, or other electronic equipment that generate heat.

**Ventilation:**

Place the QR-2 in a well-ventilated space. Ensure at least 6 inches (16 cm) of clearance above the unit and sufficient space behind it to allow proper airflow and prevent overheating.

**Grounding and Polarization:**

The QR-2 uses a polarized AC plug, with one blade wider than the other, which fits only one way into a standard outlet. If the plug does not fully insert, try reversing it. If it still doesn't fit, consult a licensed electrician. Do not bypass or alter the plug's safety feature.

**Power Sources:**

Connect the QR-2 only to power outlets that match the voltage specified on the unit.

**Power Cord Protection:**

Arrange the power cords so they are not likely to be stepped on, pinched, or damaged by furniture or equipment.

**Lightning:**

For added protection during thunderstorms or when the unit will not be used for long periods, unplug the QR-2 and disconnect any antenna or cable system to protect it from lightning or power surges.

**Electrical Lines:**

Do not install external antenna systems near overhead power lines or other electrical circuits. Contact with such lines could result in severe injury or death.

**Overload:**

Avoid overloading wall outlets, extension cords, or power strips. Overload increases the risk of fire or electric shock.

Never connect high-consumption appliances such as vacuum cleaners or hair dryers to the QR-2.

Also avoid connecting lamps or other lighting equipment -especially dimmers- as they can generate significant electrical noise.

**Service:**

In the event of malfunction, the QR-2 must be serviced only by technicians authorized by Margules Audio.

**Important Safety Notes**

- Before connecting the QR-2, make sure all devices in your audio or home theater system are turned off. Some components have auto-start features that may activate unexpectedly during installation, potentially causing damage to equipment or speakers. This type of damage is not covered by the warranty.
- The detachable power cord included with the QR-2 is specifically designed for this unit. However, you may use higher-quality power cords to enhance performance.
- The QR-2 features user-replaceable AC fuses (6A-SB, 10A-SB, and 15A-SB) located on the rear panel. If the unit does not power on after replacing a fuse, contact an authorized Margules distributor. Always use the specified fuses.
- In-wall wiring must meet UL or CSA standards and local codes. For installation questions, consult a licensed electrician or certified contractor.

**Dedicated LC Filters:**

Thanks to its dedicated filters for digital and analog components, the QR-2 enhances tonal richness and balance, as well as detail, dynamics, and soundstage depth.

With three independent, specialized filters for digital and analog signal paths, the QR-2 ensures optimal performance of connected audio and video equipment by preventing signal degradation and rejecting high-frequency noise.

**Proprietary circuit and autotransformers:**

The QR-2 features a proprietary circuit and high-quality autotransformers.

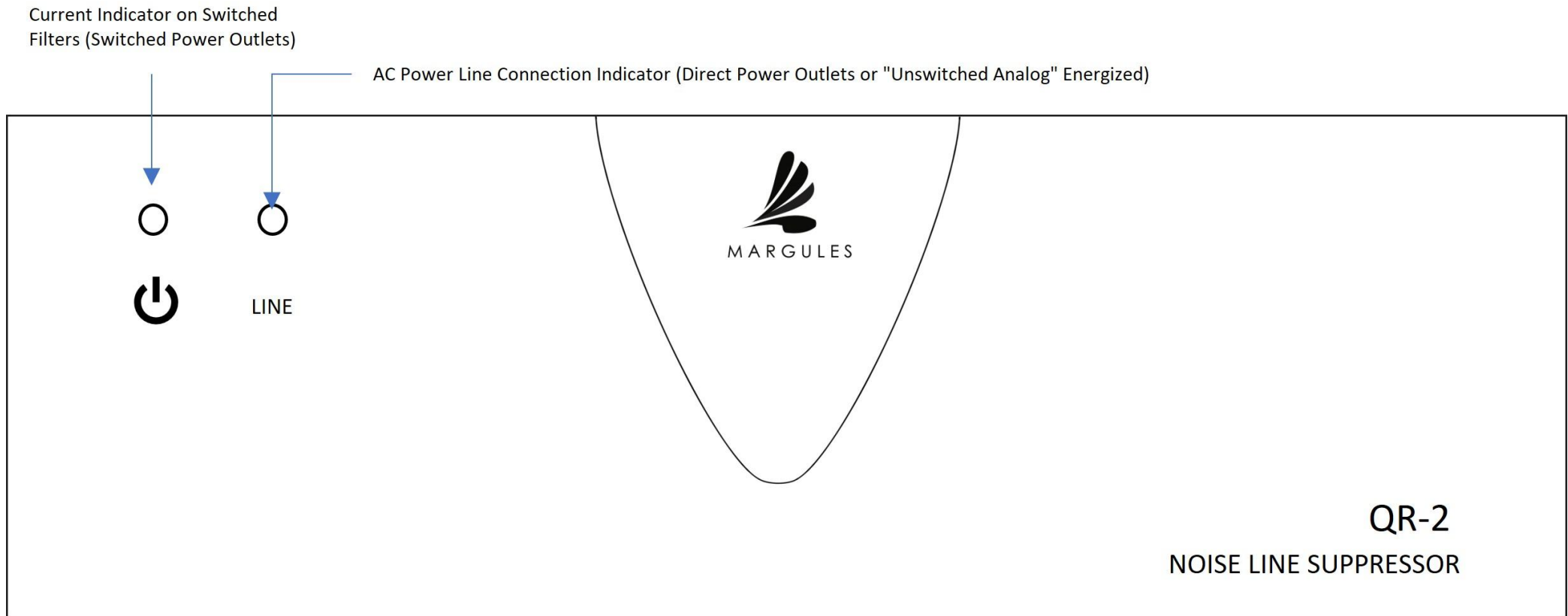
These components provide energy reserves for power-demanding equipment, improve system stability, suppress electrical transients, suppresses power line noise, correct DC offset eliminating mechanical hum from audio transformers, and protect your gear against voltage spikes and surges.

**Switched AC Outlets:**

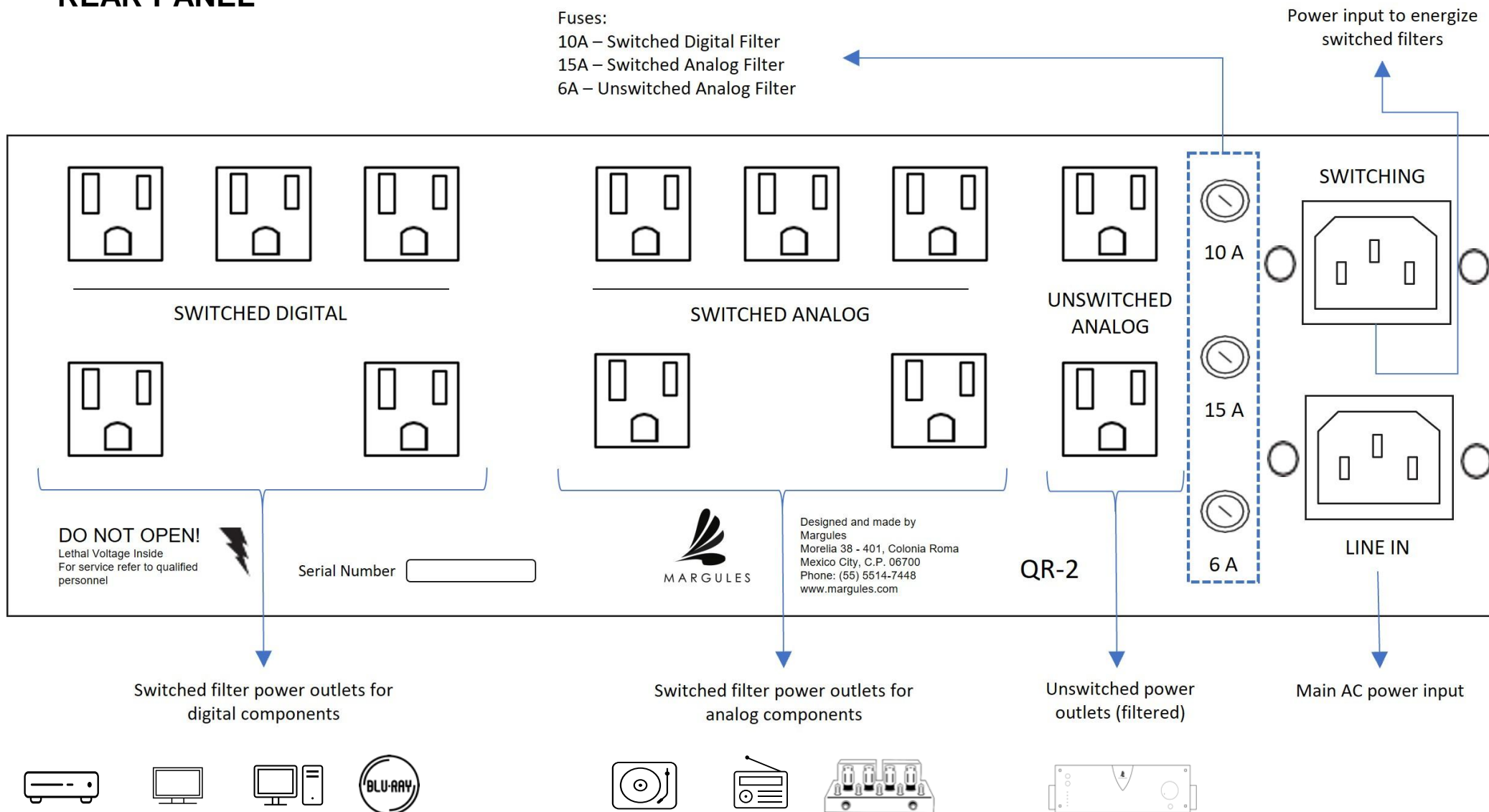
The QR-2 offers 12 AC outlets, 10 switched and 2 unswitched.

The switched outlets are energized when the AC output of a preamplifier is connected to one of the two unswitched (direct) outlets, maintaining the harmonic integrity of the audio signal and allowing for centralized system power control.

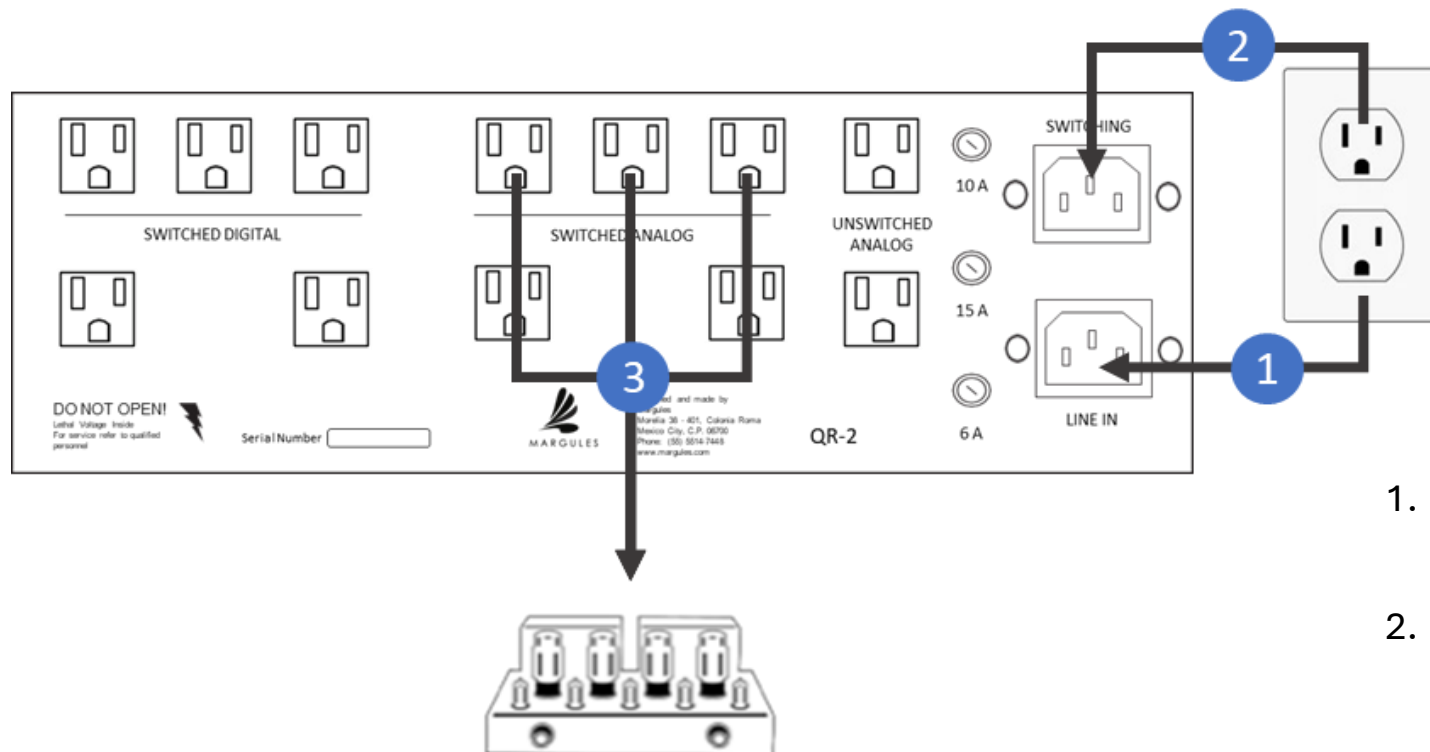
## FRONT PANEL



## REAR PANEL



## SETUP GUIDE (when using a preamplifier without AC output)

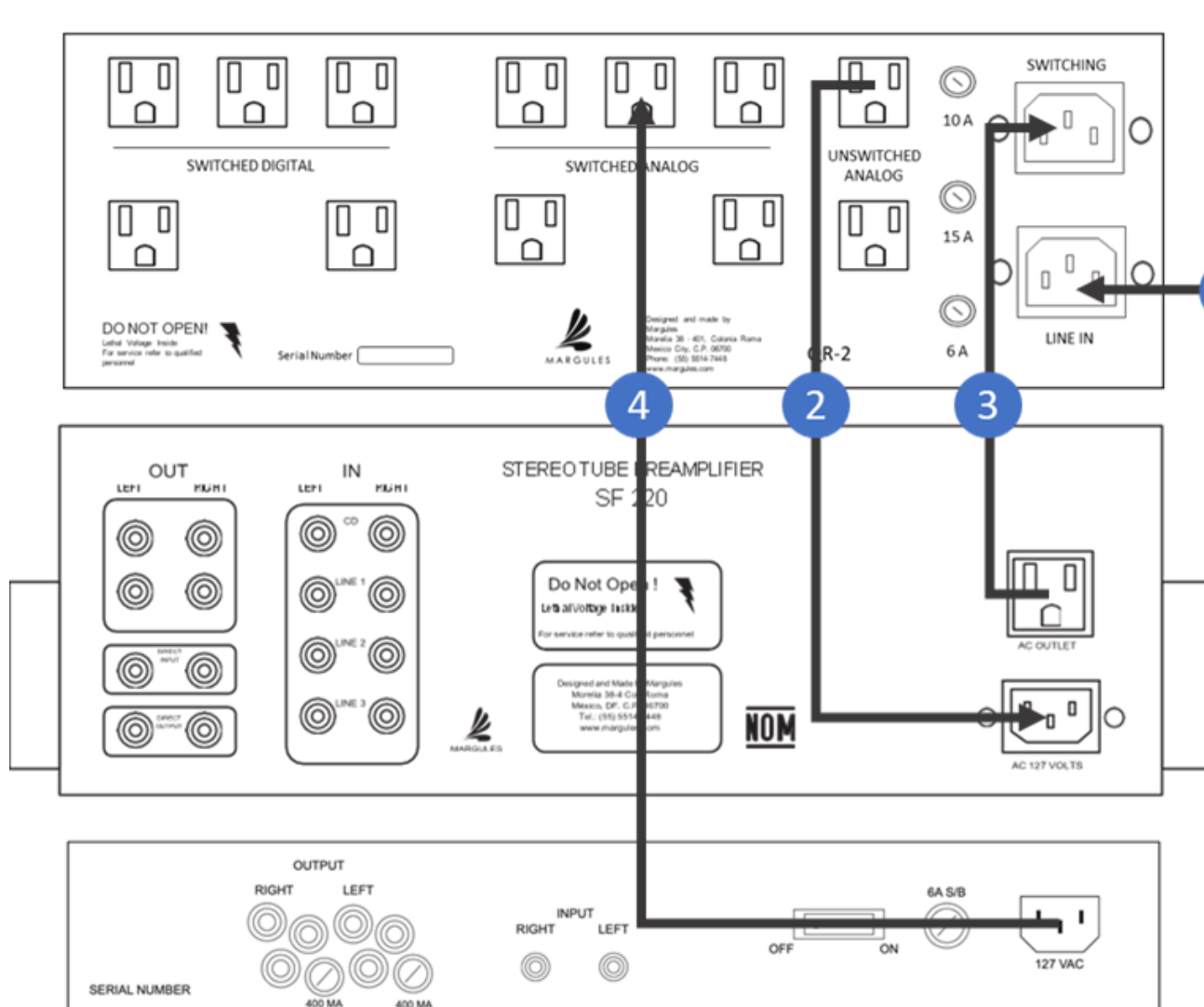


1. Connect the main AC power cable to the QR-2's Line In power input.
2. Connect a power cable from the main AC outlet to the Switching Input on the QR-2.\*
3. Connect the preamplifier, power amplifier, or integrated amplifier to the QR-2's Switched Analog outputs.
4. Connect the power cables of your audio and video equipment to the Switched Analog or Digital outputs.

*Alternatively, if using a preamplifier without an AC outlet or an integrated amplifier, connect a power cable from one of the QR-2's Unswitched outputs to the Switching Input. Then connect your preamplifier or integrated amplifier to one of the Switched Analog outputs*



# SETUP GUIDE (when using a preamplifier with AC output, such as the SF220)



1. Connect the main AC power cable to the QR-2's Line In power input.
2. Connect the SF220 preamplifier's power cable to one of the QR-2's unswitched analog outputs.
3. Connect a power cable from the SF220 preamplifier's AC outlet to the QR-2's switching input.
4. Connect the U280 amplifier's power cable to any of the QR-2's Switched Analog outputs.
5. Connect the power cables of your audio and video equipment to the Switched Analog or Digital outputs.

Feature	Specification
Input Voltage Range	90 – 150 V AC
Output Ratio	1:1 (no voltage transformation)
Independent LC Filters	3 (1 direct, 2 switched)
Unswitched Analog Filter	2 outlets / Total capacity: 250 W
Switched Digital Filter	5 outlets / Total capacity: 500 W
Switched Analog Filter	5 outlets / Total capacity: 700 W
Total AC Outlets	12 (10 switched, 2 direct/unswitched)
Maximum Current per Outlet	6 A (do not exceed this limit per individual outlet)
Filtering Type	Dedicated LC filters for digital and analog signal paths
DC Offset Correction	Yes
Transient and Spike Suppression	Yes (via proprietary circuit and high-quality autotransformers)
Power Line Noise Filtering	Yes
Switched Outlet Activation	Triggered by sensing AC voltage from preamplifier or direct trigger input
Dimensions	Width: 41 cm (16.1 in), Height: 11 cm (4.3 in), Depth: 17 cm (6.7 in)

Problem	Possible Cause	Solution
QR-2 does not power on	No AC power or blown fuse	Verify that the power cable is properly connected and that the AC outlet is supplying power. Check the rear panel and replace the blown fuse with the correct type (6A-SB, 10A-SB, or 15A-SB, depending on the circuit). If the unit still does not power on, contact an authorized Margules distributor.
Switched outlets do not activate	The Switching Input is not connected, or the preamplifier is not sending AC voltage	Ensure the preamplifier's AC output is connected to the QR-2's Switching Input or connect the Switching Input directly to the AC line using a power cable from an Unswitched output.
Humming or buzzing noise	Ground loop or interference from external sources	Check grounding of all connected components. Use high-quality shielded interconnect cables.



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