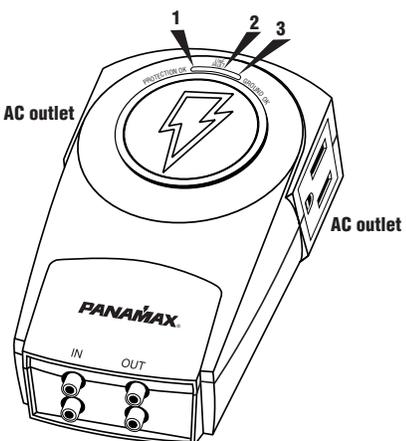


M2-SUB INSTALLATION INSTRUCTIONS

The M2-SUB is designed to protect a "remote" powered subwoofer. The term "remote" indicates that the subwoofer is plugged into a different AC outlet than the stereo component that is providing the audio signal. It protects the AC power path to the subwoofer and can protect the line-level RCA signal path between the subwoofer and the main audio/video system. (See "backdoor surges" below).



AC outlet

AC outlet

Two signal line protection circuits (In / Out)

The unit provides 2 AC outlets and 2 signal-line protection circuits. It features Panamax's exclusive Protect or Disconnect™ circuitry for AC surge protection, which, in order to keep your equipment safe, will disconnect the power when hit by a catastrophic surge like lightning. The signal-line protection circuits are designed for audio signals so that optimal performance is achieved and signal integrity is not compromised.

The M2-SUB also features 3 diagnostic lights for maximum safety. They are designated as follows:

- 1. Power ON/Protection OK** – (green) normally ON – indicates that the power is on, surge protector is functioning properly, and all connected equipment is protected.
- 2. Line Fault** – (red) normally OFF – when lit, indicates that the wall outlet is improperly wired.
- 3. Ground OK** – (green) normally ON – indicates that the wall outlet is properly grounded.

Full protection and proper operation occurs when the two green lights are on.

Important Safety Points
Panamax surge protectors and the connected equipment must be indoors in a dry location and in the same building. Do not install any Panamax product near heat emitting appliances such as a radiator or heat register. Do not install this product where excessive moisture is present; for example, near a bathtub, sink, pool, basement floor, fish tank, etc.

It is not uncommon for a building to be improperly grounded. In order to protect your equipment, and validate the connected equipment policy, Panamax products must be plugged into a properly grounded 3-wire outlet. Additionally, building wiring and grounding must conform to applicable codes (NEC for USA or CEC for Canada) for the Panamax connected equipment policy to be valid.

Do not use 2-blade adapters with this product. If an extension cord is required, use only a Panamax extension cord. If at any time your surge protector indicates a Line Fault, your wall outlet may not be properly wired or grounded.

Installation Procedures

1. Plug the M2-SUB directly into a 15-amp, 120 volt AC wall outlet near the subwoofer.
2. Verify that the green "Ground OK" and "Protection OK" lights are on.
3. Use a line-level RCA audio cable (not included) to connect the subwoofer output(s) from the preamp or receiver to the A/V RCA input jack(s) on the Panamax component located at the main system.
- 4-A. Use another line-level RCA audio cable (not included) to connect the A/V RCA output jack(s) to a second M2-SUB (not included sold separately) plugged into a Panamax component (located at main system) to the input jack(s) on the M2-SUB at outlet B. The input jacks are color-coded; one circuit is red and the other circuit is white.
- 4-B. If you have not purchased and installed a second M2-SUB, please be aware you will have only AC line surge protection from the remote AC outlet (B) to your powered subwoofer. (See "Backdoor Surges" below)
5. Use another line-level RCA audio cable (not included) to connect the output jack(s) on M2-SUB to the subwoofer input(s).
6. Plug the subwoofer AC power cord into the M2-SUB.
7. Turn-on the audio/video system and subwoofer. Check the subwoofer for power.
8. Play an audio source through the audio/video system and verify that the subwoofer is working properly.

Properly Connecting Your Surge Protector

To completely protect your equipment from power surges, every wire leading into or out of the equipment you want to protect must be connected to the appropriate Panamax surge protector. Damaging lightning and power surges can get into your system through any AC power or signal line (phone lines, grounding wires, coax cables, modem lines, etc.) connected to your electrical equipment. The \$5,000,000 Connected Equipment Policy is invalid if any wire leading into or out of the equipment is not properly connected to the appropriate Panamax surge protector(s). The surge protector must also be plugged into a properly wired and grounded 3-wire outlet. Please see the connected equipment policy for details or contact the Panamax Customer Relations department with questions.

Important! Please Note: "Backdoor" Surges

AC power surges can enter an entertainment system at the main system AC outlet, (Outlet A) or at the AC outlet where the subwoofer is installed - the "backdoor" (Outlet B). The signal-line connections between the subwoofer and the main system provide a bi-directional pathway for potential surge damage due to ground skew (voltage differential between the main system and subwoofer). To protect the main system against these backdoor surges, a second M2-SUB or Panamax component (or both) must be used for the signal-line cable(s) entering the main system.

