

The Mondial Antenna Ground Isolation Circuit

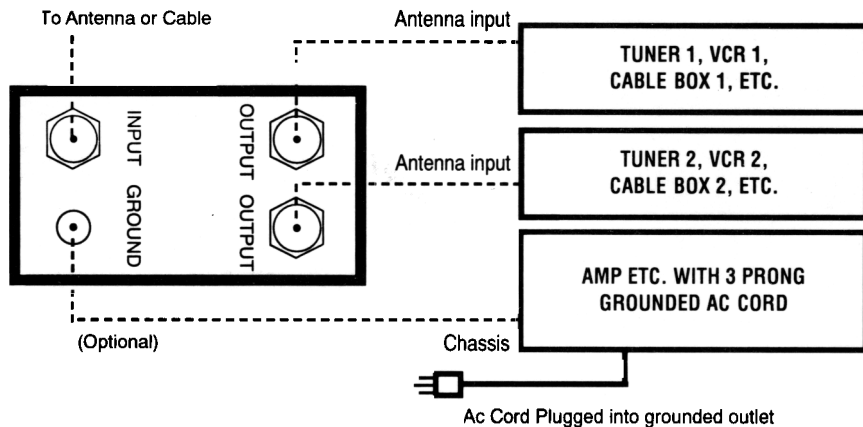
(Patented)

MAGIC SPLITTER*

is designed to eliminate ground induced hum and noise from cable TV or outdoor antenna connections to audio video systems, while providing two isolated outputs with minimum loss. It also serves to protect equipment against lightning damage and to discharge static electricity buildup and is optimized for operation over the frequency range of 5 to 1,000 MHz.

INSTALLATION INSTRUCTIONS

Wiring Diagram



- 1] Disconnect antenna coaxial cable from rear of Tuner, VCR, or other component.
- 2] Connect the antenna coaxial cable to the connector marked "input" on the MAGIC SPLITTER.
- 3] Connect a short coaxial interconnect cable from each of the connectors marked "output" on the MAGIC SPLITTER to the respective inputs of the Tuners, VCRs, etc. in the system.
Note: For maximum efficiency and static electricity protection, the MAGIC SPLITTER **MUST** be located at the audio/video equipment cabinet, and the coaxial interconnects from the MAGIC SPLITTER to the audio/video components should be as short as possible.
- 4] (optional) If desired, an external ground may be connected to the screw terminal marked "ground" on the MAGIC SPLITTER. This connection is not required, but serves to increase protection against equipment damage due to lightning. The ground terminal may be connected to a copper cold water pipe or other source of electrical system ground such as the metal chassis of a system component equipped with a three prong (grounded) AC cord. **CAUTION: DO NOT make this connection to the "line" or "neutral" conductors of an electrical outlet.** If you are unsure of how to make this connection, consult a licensed electrician or other technical professional.

Note: The Mondial Antenna Ground Isolation Circuit is designed to work with a properly grounded cable TV or antenna coaxial cable. It is **NOT** intended to replace the coaxial cable shield ground connection at the point of entry into the building, as required by article 810 and 820 of the National Electrical Code (N.E.C.). The principal function of the MAGIC SPLITTER is to eliminate the circulating ground currents and resulting hum and noise which may be caused by a **PROPERLY GROUNDED** cable TV or outdoor antenna coaxial cable.

SAFETY INFORMATION

- 1] Read all installation and safety instructions before making any connections. Follow instructions and make note of all cautions and warnings. Retain these instructions for future reference.
- 2] Outdoor antenna grounding: If an outside antenna is being used with your audio/video equipment, be sure the antenna system is properly grounded to provide maximum protection against lightning, voltage surges, and built up static charges. Article 810 of the National Electrical Code (N.E.C.) provides information with respect to proper grounding of the antenna mast, supporting structure, and antenna cable. Specifically, the N.E.C. states that the shield conductor of an antenna coaxial cable be grounded to the building electrical system ground or a metal cold water pipe, as close to the point of cable entry into the building as possible. The mast and supporting structure should also be connected to the electrical system ground. For more information on the details of proper antenna installation and grounding, refer to article 810 of the N.E.C. or the instructions supplied with your antenna or components utilizing an antenna input.
- 3] Make sure antenna and cables are installed away from power lines.
- 4] CATV cable grounding: To provide maximum protection from lightning, voltage surges, and built up static charges, article 820-22 of the N.E.C. specifies that the CATV cable shield conductor be connected to the building electrical system ground, as close to the point of cable entry into the building as possible. Although this ground connection is the responsibility of the cable TV company, it is advisable to confirm its existence if possible. The figure below illustrates this connection. If you do not find a grounding connection where the cable enters the building, call your local cable company for more information and/or possible correction.

Typical Cable Ground Installation

