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Title: How to ground an outdoor base station

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What is a base station antenna?

Base station antennas are fixed installations for receiving radio signals, and are usually on tall structures placed at a great height over the ground. This makes them easy targets for lightning strikes, as they're usually high structures made of a conductor.

Do outdoor antennas need to be grounded?

EVERY antenna has a metal part so every outdoor antenna needs to be grounded. I recommend that every antenna be grounded twice, actually. First, ground the antenna and second ground the mast. Most people don't go to the extra trouble of grounding the mast and some people will tell you it's not necessary.

How do you pigtail a grounding receptacle?

Secure the ground wire. Often the grounding wire is wrapped around the cable as it enters the box. In this case, you should pigtail all of the device grounds together and have one lead from the pigtail ground to the metal device fixture box and another lead used as a ground for the new grounding receptacle.

Why is proper grounding important in a home theater installation?

However, I've said it before: proper grounding is critical. Grounding is the process where the metal bits on the outside of your home connect to the ground (literally, the earth, the dirt, etc.) so that they aren't lightning hazards. It's an incredibly important part of any home theater installation.

Oct 22, 2025 · Older homes often have two-pronged receptacles (sometimes referred to as outlets) that should be replaced with a Ground Fault Circuit Interrupter (GFI or GFCI) ...

Mar 29, 2023 · What is the best way to ground a base station antenna so my equipment or house isn't fried by lightning?

Nov 25, 2025 · Base station antennas are fixed installations for receiving radio signals,

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