

SYSTEM GROUNDING

It is often reported that a residential elevator has stopped operating after a storm. The reason for this is transient currents. These transient currents are caused by any of the following:

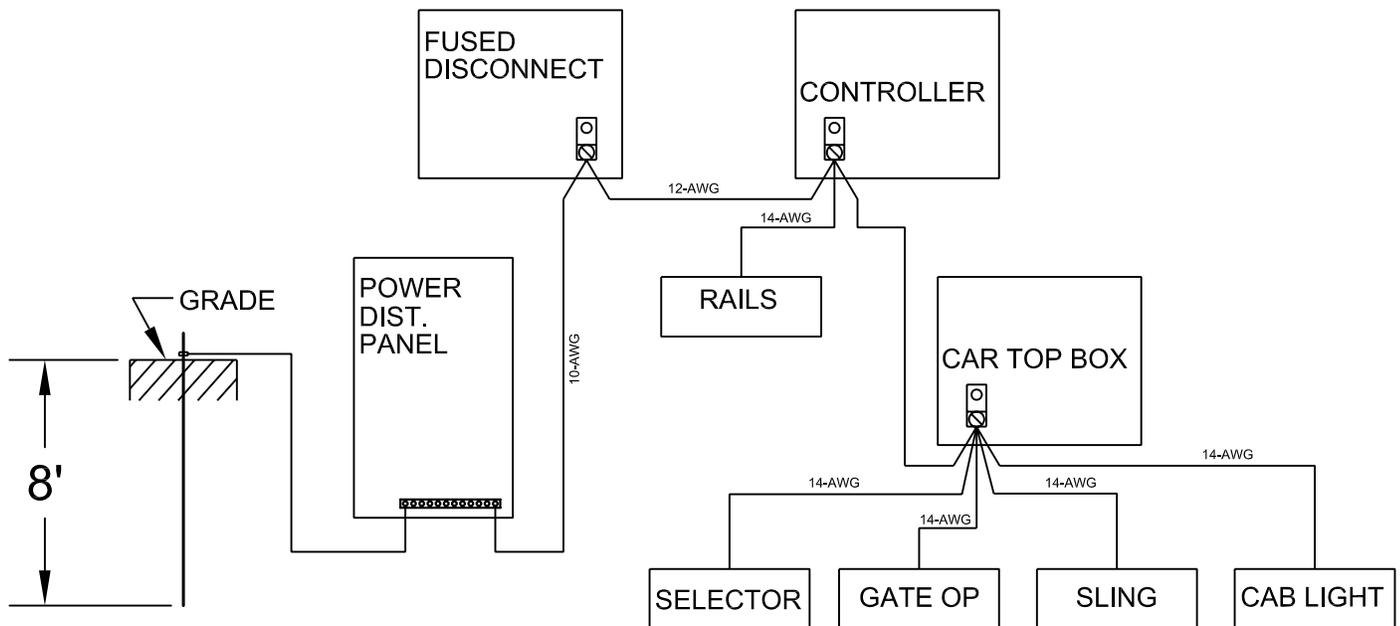
- * Improper grounding of the residence
- * Improper or nonexistent grounding of the elevator system

The following links are being provided for an in-depth explanation of grounding and bonding:

<https://www.engineereducators.com/docs/groundingandbonding2-2.pdf>

<http://www.pfeiffereng.com/Principals%20of%20Electrical%20Grounding.pdf>

The following is a representation of a properly Grounded / Bonded residential elevator system:



Note: All Ground wires must be stranded wire

LIGHTNING PROTECTION

There is no product available that will fully protect any electrical system from the effects of a lightning strike. Many field technicians have reported positive results when using a "Lightning Arrestor" with a "Surge Capacitor". These two components are to be connected directly to the elevator controller for maximum protection.

The combination that has been reported to have a positive effect is manufactured by Delta Lightning Arrestors, Inc. The part numbers are as follows:

Lightning Arrestor: LA302G

Surge Capacitor: CA302RG