

Application Note – Control Chassis Grounding

It is important to implement proper grounding of your motor control to ensure safety of personnel and protect your product investment.

Chassis or circuit common (sometimes called ‘ground’) and earth ground are NOT synonymous.

The motor control electronics should be isolated from earth ground at all times. Earth ground conductors should not connect to any terminal strip on the control unless specifically labeled GND, as in the 500 series. The 500 series is the only Dart Controls product that has a terminal strip connection for earth ground.

Dart Controls motor drives are mounted to various metal chassis which act as heat-sinks for the components of the electronics. These chassis are electrically isolated from the electronics. If a GND terminal strip connection is not provided (the case for ALL Dart products except the 500 Series), ground termination points may be provided in the form of a ground lug or spade. Consult the instruction manual to verify whether a screw terminal or spade pin is present for earth ground.

If an earth ground termination point is not provided on the terminal strip or chassis directly, an earth ground conductor may be terminated under a mounting screw or bolt at one of the mounting slots of the chassis.



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