

# THE IMPORTANCE OF GROUNDING TRUCK SCALES

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Proper truck scale grounding is essential to reduce the risk of scale outages, damaged components and inaccurate weight readings. It's crucial to follow the proper steps to protect truck scales from electrical interference.

## Single Point Grounding

### Signs of a Problem

#### Sign 1: Unexplained Weight Changes

Does the weight on your display change for no apparent reason?

#### Sign 2: Repeated A/D Failures

Do you find yourself replacing A/D boards regularly? Multiple failures of this part are a strong indicator of grounding problems.

#### Sign 3: High Excitation Resistance Failures

Is there a pattern of high excitation resistance measurements across many load cell failures? If so, a load cell may be damaged due to poor system grounding.



### Measurement Checks

#### Check 1: Neutral to Ground

This measurement should be less than 0.5 VAC. Higher values could indicate a problem with the on-site electrical system. Monitor this voltage reading over time and look for any fluctuations, as this can indicate power quality issues.

#### Check 2: Resistance

Measure the resistance of the scale platform in ohms, as well as any extension cords being used. The difference should be less than 1 ohm.

#### Check 3: Wire Choice

Verify you are using a minimum of 10-gauge copper wire for grounding. Copper safely and efficiently transfers electrical discharge to the ground.

