

Vibrator connected to distribution box



Article Overview

A vibrator should be connected to a distribution box using properly sized cables, a suitable switch, and a secure grounding system to ensure safe and reliable operation.

Electrical Connection

- **Cable Selection:** Use AWG #6 or heavier for the main power connection to the vibrator. For accessory wiring, such as solenoids or control circuits, AWG #16 or heavier is recommended (). Ensure cables are rated for the voltage and current of the vibrator.
- **Switching:** Use a push-button switch for intermittent operation and a pull-on switch for continuous operation. The switch should be installed in a location that is easily accessible and protected from accidental activation ().
- **Distribution Box Wiring:** Connect the vibrator to the distribution box or relay/solenoid using the recommended gauge wire. Ensure all connections are tight and free from corrosion. Use cable clamps to secure wires and prevent movement or chafing ().
- **Grounding:** Proper grounding is critical. Connect a heavy-duty ground cable or strap between the vibrator and the truck frame or structural steel to complete the electrical circuit safely (). Verify that all ground connections are secure before energizing the system.

Mounting Considerations

- Mount the vibrator on a stiffened channel iron or mounting plate to ensure even vibration distribution. For large dump bodies, weld a channel over multiple cross members and attach the vibrator plate over a stiffener ()....

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