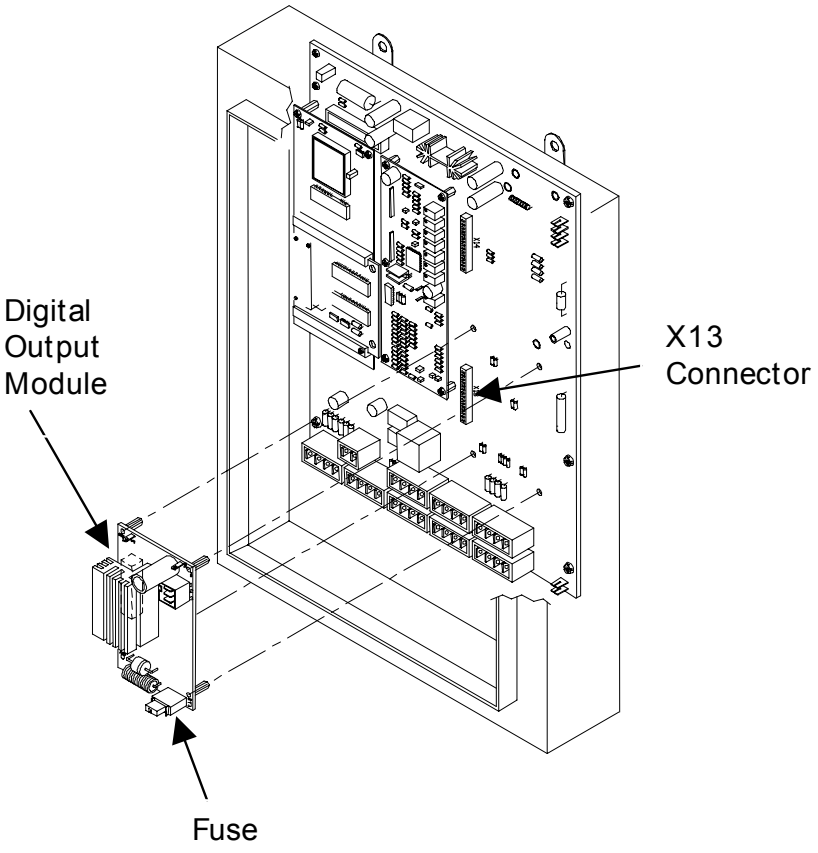
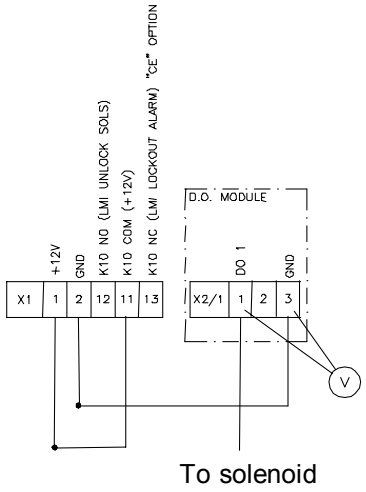
THEORY - OPERATION AXLE OSCILLATION OUTPUT

Axle oscillation is the ability of the crane axle suspension to articulate to the changing terrain. The digital output module sends power to energize a solenoid valve to allow axle oscillation. This current is sent when determined by the LMI software; the crane is in pick and carry mode, and within in a preset angle tolerance (e.g. ±12°) over the front of the crane. To troubleshoot this module, first, check if the on-board light is lit. This light indicates that the board is receiving both power and a proper ground. If the light is out, check the condition of the fuse, and board connection. To determine if a signal is present refer to the Measuring Voltage section.

Measuring voltage:

The voltmeter is Ⓥ used to measure voltage between pins X2/1:1 (digital output 1) and X2/1:3 (gnd) on digital output module (024-352-300-041 / 9333103291).