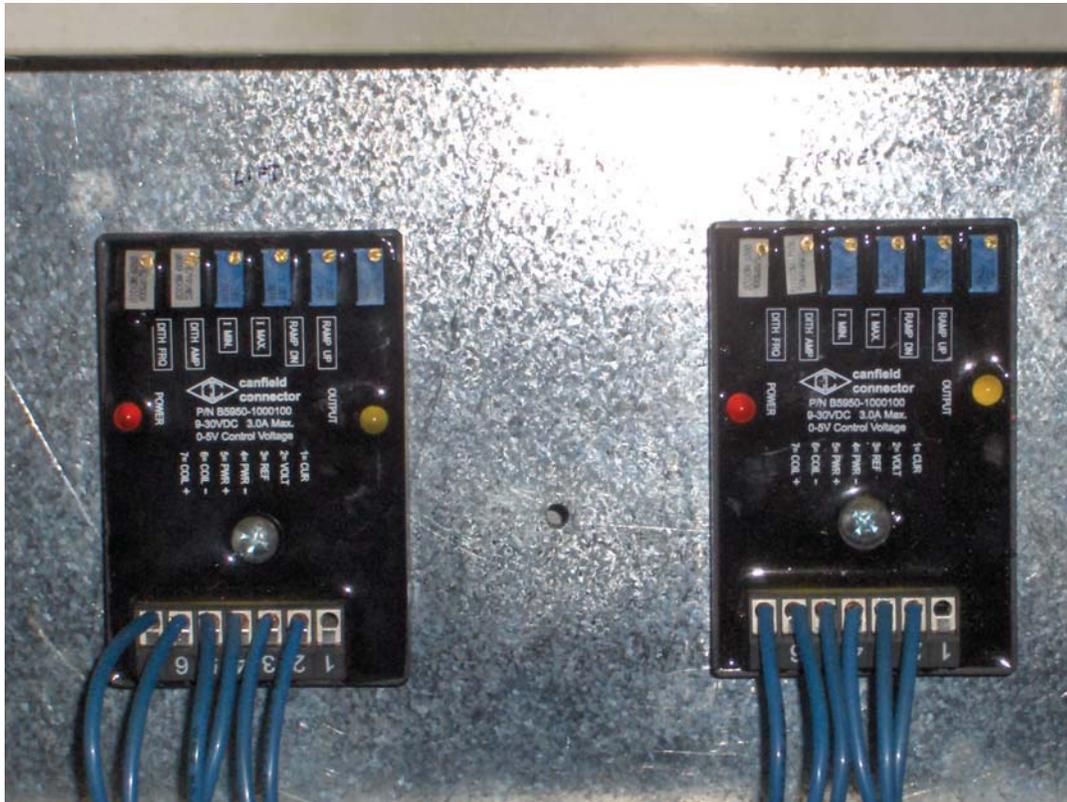


## Pulse Width Modulation (PWM) Drivers (8836)

The PWM drivers power the Lift and Travel speed control solenoids. They are located inside the operator console, the leftmost is for the Lift and the rightmost the Travel. Each has six adjusting potentiometers (pots) located at the top edge. The two center pots are used to control minimum speed (the third pot from the left) and maximum speed (fourth pot from the left). All other pots should be adjusted to their full counter-clockwise position, which can be verified by turning the adjusting screw a full 20 turns counter-clockwise – they can not be overturned.



To adjust minimum and maximum speed, whether lift or travel, first turn both pots to their minimum value by adjusting the screw a full 20 turns counter-clockwise. The minimum speed pot, the third from the left, must be set first. With the joystick slightly actuated in either the forward/down or reverse/up position, corresponding to a minimum joystick position, turn the minimum pot (third from left) clockwise until the machine just starts to travel/lift. Before moving to the maximum adjustment, run the machine forward/down and reverse/up a few times to verify that you are satisfied with the minimum setting. Next, adjust the maximum pot (fourth from left) a full 8 turns clockwise. Run the machine forward/down and reverse/up a few times to check out the action of the joysticks. Try various intermediate joystick positions and verify that the speed ramps up and down with joystick position. The maximum speed can be increased by turning the maximum pot (fourth from left) further clockwise, or reduced by turning it counter-clockwise. As the joystick is actuated the yellow light of the PWM driver should intensify with increasing speed, the red light indicates that the driver is powered and should always be lit.