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## ACCU-CAST CALIBRATION

**If your system is equipped with ACCU-CAST 2000V or 3000V Computer controls (complete with LCD screen) The following 3 paragraphs deal with the calibration of the temperature probe which is the only manual calibration existing on these boards. Please turn to section 6 of this manual for the computer programming instructions.**

### Temperature

On The following depiction of the PHE 2000V computer board in the top left corner as you are looking at the page you will find an adjustment pot labeled “Temp”. This pot is used to calibrate the outside temperature probe on your system (if equipped) turning the screw clockwise will make it read colder. (CCW for warmer).

If the temperature of the area the unit is in is known and the unit has been in this area for a reasonable time, the pot can be adjusted to this value. If a more accurate calibration is required you can immerse the probe into a glass of water of known temperature and adjust to this.

This temperature adjustment is the only manual adjustment on the *ACCU-CAST* 2000V board. All other adjustments are done through the computer parameter adjustments covered in section 6 of this manual.

**If your system is equipped with an ACCU-CAST 1000V Ground speed oriented Sander control (no LCD screen) Please follow these calibration instructions.**

To begin:

You must first gain access to the PHE 1000V board by removing the slide out pan, opening the console top, or removing the bottom box, depending on the model of your system. Plug the module back into the system in such a manner that you can work on the board while it is powered up.

\*\*\*\* Turn the master switch off and ensure there is no power to the board.

\*\*\*\* Turn both the spinner and conveyor selector switches to 0.

\*\*\*\* Turn all 6 pots 25 turns CCW or until they click.

- 1). Hold the “Program Button” down, and power the unit on to “Manual” this will put you into the calibration mode - the display will read 88.
- 2). Release the button, and the display will change to 00.
- 3). Press the button again, and the display will change to 01.
- 4). Release the button, and place the spinner selector switch to position 1.

- 5). Observe the spinner and adjust the SPINNER M MIN (pot #1) until the spinner starts to turn slowly. (The display will show you the pot position as a percentage 00 to 99).
- 6). Set the spinner selector switch to position 9.
- 7). Press the program button and the display will change to 02.
- 8). Release the button and adjust the SPINNER M MAX (pot #2) until the fastest speed required is attained.
- 9). Press the program switch, and the display will change to 03.
- 10). Set the conveyor selector switch to position 1 and adjust the CONVEYOR M MIN (pot #5) until the conveyor starts to move slowly (The display will show you the pot position as a percentage 00 to 99).
- 11). Press the program button again and the display will change to 04.
- 12). Set the conveyor selector switch to 9.
- 13). Adjust the CONVEYOR M MAX (pot #6) until the fastest conveyor speed is attained.
- 14). Press the program button again and the display will change to 05, and the conveyor and spinner will stop. Release the button.
- 15). Run the truck to 50 KPH and adjust the CONVEYOR A MAX (pot #4) until the display reads 50.
- 16). Press the button again and the display will change to 06 (NOTE: this may take up to 1 second for the display to change).
- 17). Adjust the CONVEYOR A MIN (pot #3) until the display shows the speed at which the conveyor will start (and stop) such as 05 KPH.

**Note 1:**

If you have a signal as confirmed by a frequency meter but it does not register on the 1000V board you may have to clip out the resistor (second from the conv 12v end of the terminal strip) which will decrease the impedance of the circuit.

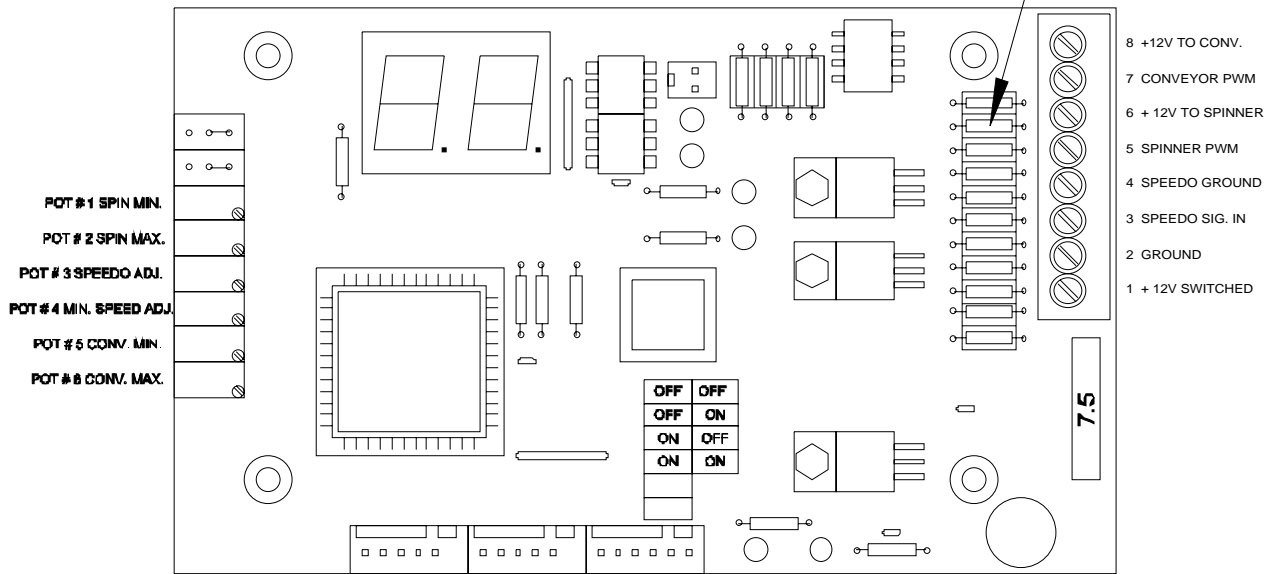
**Note 2:**

If your system does not use auto mode or ground speed, steps 14, 15, 16, and 17, are not required.

This completes the calibration of your new PHE 1000V sanding system module. This module is a very rugged unit, with as much built in resistance to misuse as is possible. It should give you many years of trouble free service. However if you should encounter problems, please do not hesitate to contact us at 403-279-2070 phone, 403-236-2658 fax, or toll free at 1-800-363-0091.

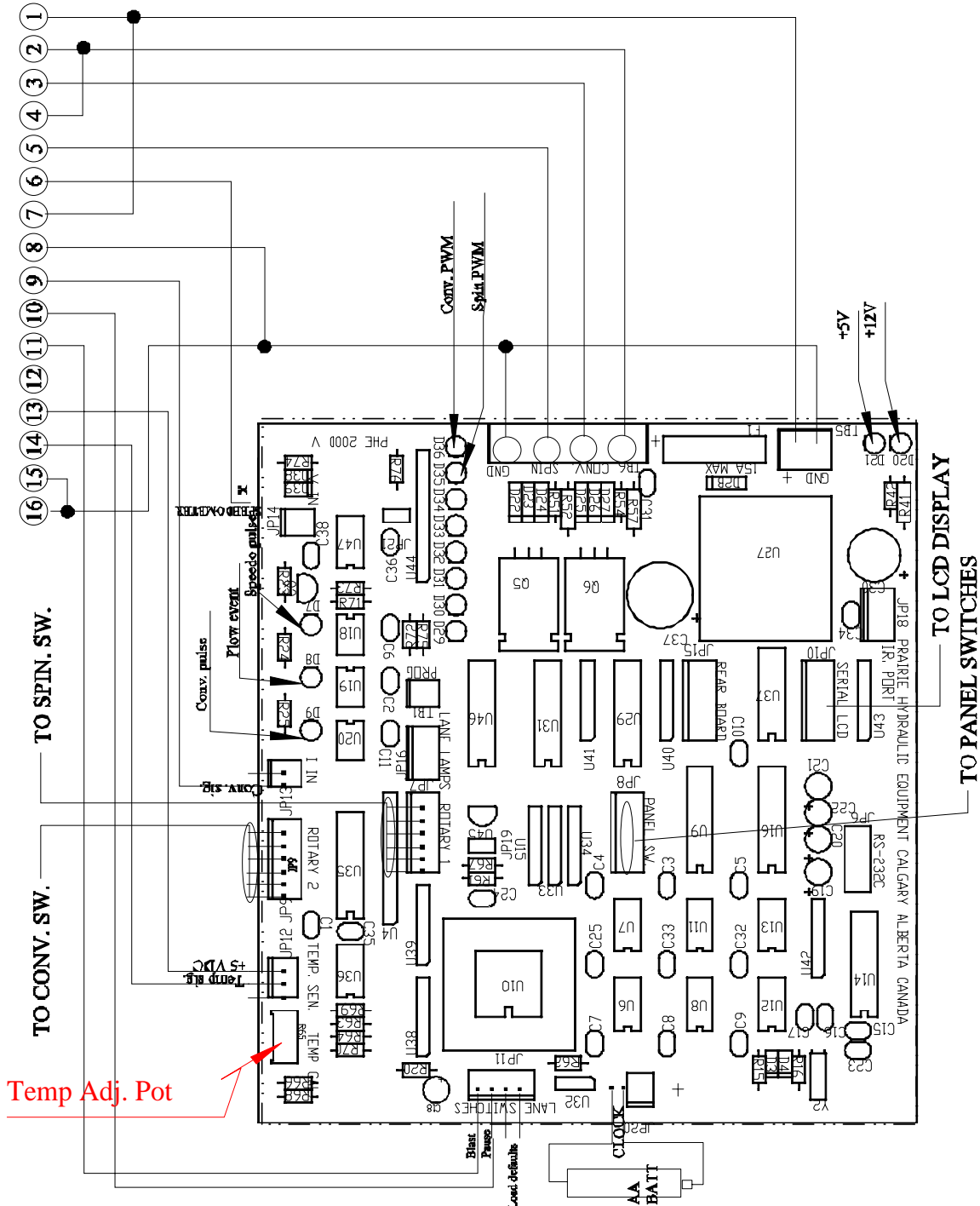
# ACCU-CAST 1000V SANDER MODULE HOOK UP AND CALIBRATION

CLIP TO DECREASE IMPEDANCE



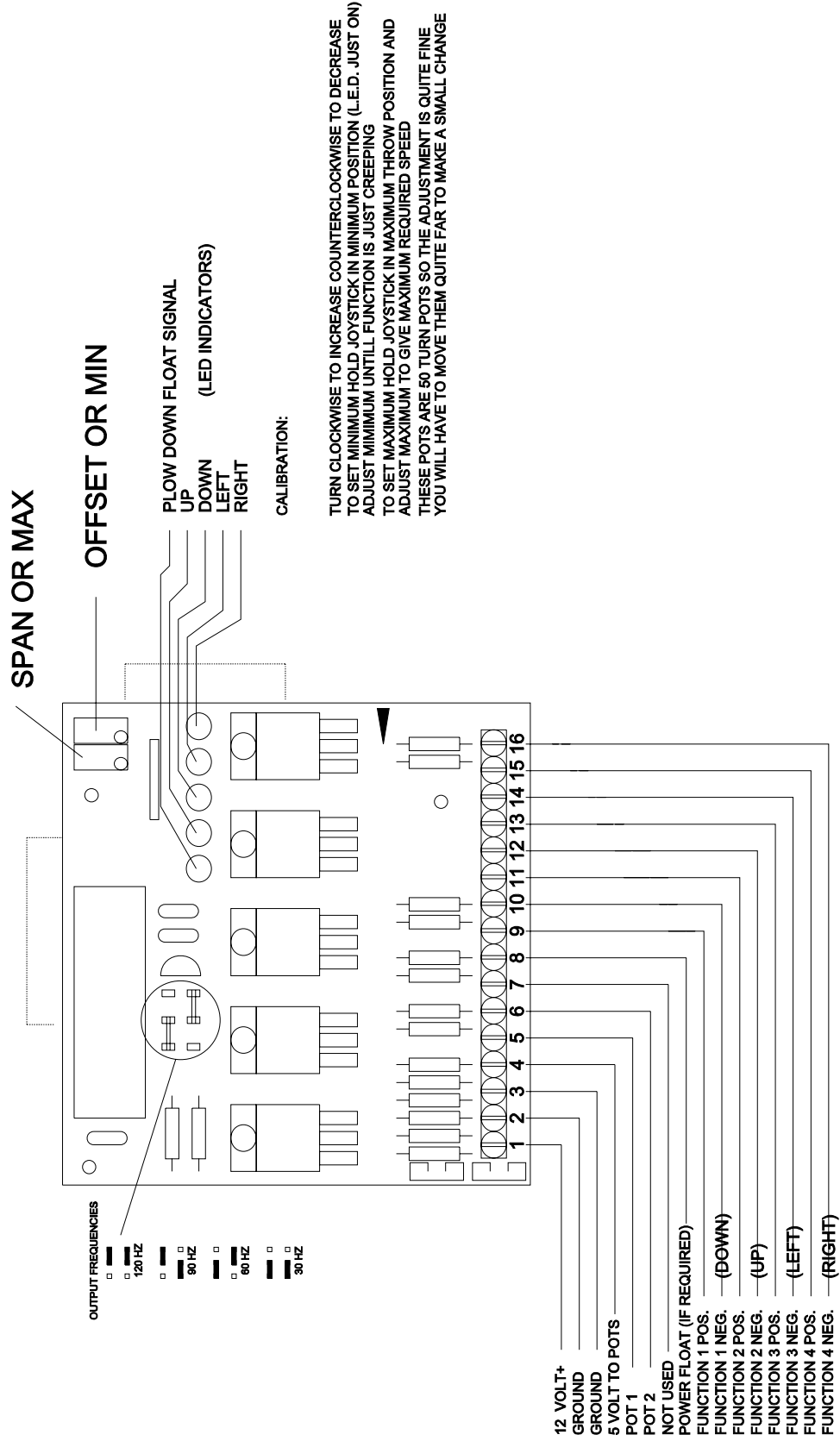
**NOTE:**

THE JUMPERS AT JP5 AND JP6 ARE FOR THE PURPOSE OF SETTING FREQUENCY AS PER THE DIAGRAM ON THE PC BOARD IE: FOR 60 HZ. THERE SHOULD BE NO JUMPER ON JP5, AND JP6 SHOULD HAVE THE JUMPER IN PLACE. FOR 120 HZ. BOTH JUMPERS SHOULD BE IN PLACE.



**AC 2000V BOARD LAYOUT**

# PROPORTIONAL JOYSTICK CALIBRATION



Joystick new.TCW

## *ACCU-CAST* 7000V Joystick Calibration

Once the joystick is installed and wired as per the diagram on page 7 of this section it should be calibrated to ensure full speed range and operation.

Locate the offset or minimum and the span or maximum pots on the board on the underside of the joystick, both of these pots are turned clockwise to increase and counter clockwise to decrease.

Begin calibration by turning both pots 25 turns counter clockwise to ensure they are at full minimum. (They will ratchet when they reach full movement.) Then move the joystick fully in one of the four directions. There should be no motion at this point. Begin turning the minimum pot clockwise and observe the motion of the function. Continue turning the pot clockwise until the function just begins to move. This is the minimum setting. Continuing to hold the joystick at full deflection, observe the motion of the function while adjusting the max pot in the clockwise direction, you can now find the point where you have full or maximum required speed. Caution should be observed to not adjust the max pot any further clockwise after full speed of the function has been reached or you will lose some functionality i.e. you will reach full speed before the joystick is at full deflection. On the other hand if a function operates too quickly, the max pot may be used to limit the maximum speed such as for a plow or wing operation where it may be desirable to slow it down for smoothness of operation.

In order to facilitate smooth and accurate adjustments the pots that are used here are 50 turns from one end of the adjustment to the other so you may find that you have to turn them quite a few turns before you see a result.

By reading these instructions and experimenting with the adjustments talked about here you should easily be able to attain smooth satisfactory operation, however should you run into problems that can not be overcome please do not hesitate to call *ACCU-CAST* At (403) 279-2070, 1-800-363-0091 or fax (403) 236-2658.