



AKSC10-xx 10 Amp
AKSC25-xx 25 Amp
AKSC35-xx 35 Amp

12v DC Pump Speed Control Kit

WARNING: USE OF THIS PRODUCT FOR ANY PURPOSES OTHER THAN ITS ORIGINAL INTENT, ABUSE OF THE PRODUCT, AND/OR MODIFICATION TO THE ORIGINAL PRODUCT IS STRICTLY PROHIBITED BY CDS-JOHN BLUE COMPANY. CDS-JOHN BLUE COMPANY RESERVES THE RIGHT TO DENY WARRANTY OR LIABILITY CLAIMS IN ANY/ALL SITUATIONS INVOLVING MISUSE, ABUSE OR MODIFICATION.

FAILURE TO FOLLOW THIS NOTICE MAY RESULT IN SERIOUS INJURY AND/OR PROPERTY DAMAGE AND WILL VOID THE PRODUCT WARRANTY. IF IN DOUBT ABOUT YOUR APPLICATION, CONTACT YOUR STOCKING DEALER OR THE CDS-JOHN BLUE TECHNICAL STAFF AT 1-800-253-2583.

Installation and Operation:

1. Verify that the motor/pump to be operated draws less than or equal to the control's rated capacity at full load. This control has an internal resetting circuit breaker (cycle power switch to reset), so no fuse is required.
2. Locate the control unit **inside** the tractor cab (out of the weather), and mount with the provided flange holes.
3. **** IMPORTANT **** Only connect the harness with **red** and **black** wires to the power source. The red wire is positive, and the black is negative. Use a minimum of 14 AWG wire for the 10A control, and 12 AWG for the 25A and 35A controls. Do **NOT** connect the white/green harness to the power source - damage will result.
4. Connect the harness with white and green (or black) wires to the motor. The white wire is positive and the green (or black) wire is negative. Use a minimum of 14 AWG wire for the 10A control, and 12 AWG for the 25A and 35A controls.
5. Connect the pressure gauge (if equipped) to an output line of the pump with provided ¼" poly tubing and ¼" npt push-connect fittings. The tubing splice connector can be used as a line disconnect near the implement.
**** For digital pressure gauge models:**
 - a.) Mount the sending unit in a protected area near the system, and connect the pressure line with the provided ¼" npt male adapter. The unit is designed for use up to 100 psi.
 - b.) Be sure to mount the sending unit above the pressure port to allow the fluid to drain back to the system (to facilitate draining for storage).
 - c.) Route and connect the sensor's 3-wire harness to the control unit plug.
6. Run/Hold optional connection (25A and 35A models only):
 - a.) For use with a N.O. (normally open) whisker switch, cut the looped wire in the dummy plug and connect to your switch wires. A smaller gauge wire (18 AWG minimum) can be used for this low current circuit.
 - b.) For use with the optional hall-effect sensor kit, remove the dummy plug and attach the plug from the sensor in the kit.

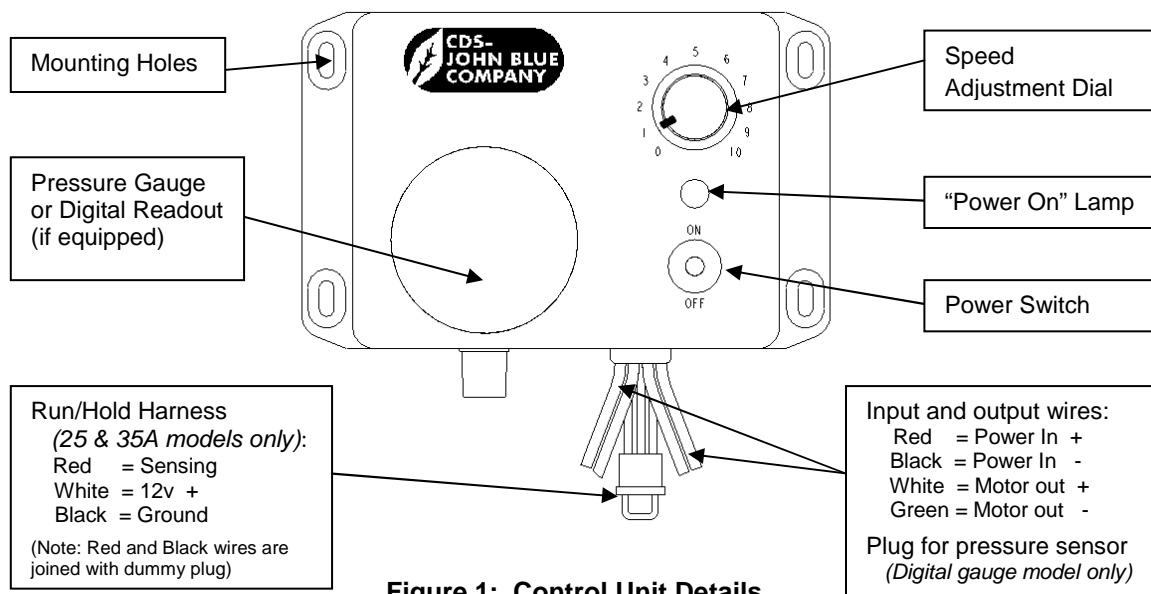


Figure 1: Control Unit Details

Troubleshooting:

If motor will not run:

- a.) Check polarity of power connections (the control unit is protected from reverse polarity).
- b.) Cycle power switch off/on in case the circuit breaker has tripped.
- c.) Check for loose connections.
- d.) Check for power (and proper voltage of 12-14 volts). Note that the unit will not run from a battery charger, and that the "power on" led should be illuminated if the power switch is set to "on".
- e.) On 25A and 35A models, check that the run/hold dummy plug is in place, or check that the tool bar switch is functioning correctly.

If the motor speed is not being controlled (motor is on, but only at a single speed):

- a.) Ensure that BOTH of the motor wires (white and green) are attached to the motor leads DIRECTLY. Do not run the green wire to system ground.

If the control shuts off repeatedly after some period of time:

- a.) Check that the motor amp draw is not too high for the controller model chosen. Motor amp draw will increase with its temperature, and margin should be maintained between max motor amp draw and the controller size to avoid problems. If controlling two pumps with one control, the max individual motor amp draw must be 8A or less for the 25A control. Use the next size up controller if in doubt.

LIMITED WARRANTY

THIS WARRANTY IS IN LIEU OF ALL OTHER WRITTEN OR EXPRESS WARRANTIES AND REPRESENTATIONS. ANY IMPLIED WARRANTIES INCLUDING MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO THIS WRITTEN WARRANTY. CDS-JOHN BLUE COMPANY SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES.

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Each new machine or component manufactured by CDS-John Blue Company through original buyer is warranted by CDS-John Blue Company to buyer and to any party or parties to whom buyer may resell, lease or lend the equipment to be free from defects in material and workmanship under normal use and service. This obligation of CDS-John Blue Company under this warranty is limited to the repair or replacement of defective parts or correction of improper workmanship of any parts of such equipment which shall within two years from the date of CDS-John Blue's original delivery thereof, be returned to CDS-John Blue's factory, transportation charges prepaid and which CDS-John Blue Company shall determine to its satisfaction upon examination thereof to have been thus defective. When it is impractical to return the defective parts of such equipment to CDS-John Blue's factory, then CDS-John Blue shall have no liability for the labor cost involved in repairing or replacing any such parts and shall be liable solely for supplying the material necessary to replace or repair the defective parts, provided that prior thereto CDS-John Blue Company shall have determined to its satisfaction that any such parts are thus defective.

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