



Model: PC3000/PC4000

Jan. 23, 2015

Serial #: All

Product Bulletin # Catwalk 33

Unintentional Skate Movement

Models Impacted

This product bulletin applies to the Canrig Automated PowerCat PC3000/PC4000 series.

Issue

It has been reported that the skate will sometimes have unintended movement without an existing command.

Objective

This product bulletin will cover all possibilities that may cause an unintended skate movement. It also includes common symptoms that will help identify a possible skate system problem. It will also provide solution(s) to alleviate each probable symptom.

Recommendation

Attempt to resolve following troubleshooting procedures below. If the problem still persists, contact RigLine 24/7™ Support for further assistance.

Troubleshooting Procedure

Table 1: Symptoms, Possible Causes and Corrective Actions

Symptom	Possible Cause(s)	Corrective Action(s)
Unintended skate movement	Operator error	Refer to the Instruction, Operation, and Maintenance Manual for proper operation of control console or radio remote.
Unrequested forward movement of the skate.	<p>Sticky skate hydraulic valve (AY50452) and idle pressure too high.</p> <p>Sticky skate hydraulic valve when other functions are requested.</p>	<ul style="list-style-type: none"> With the HPU operating in idle mode, ensure the actual idle pressure is not greater than 550 psi (optimum idle pressure range is 500–525 psi). Use the HMI system pressure readout (see Figure 2 on page 4). Contact RigLine 24/7™ Support if idle pressure is out of the specified range. Actuate the skate valve manual actuator with a 9 mm wrench. Ensure that the actuator freely moves with spring return to neutral position (see Figure 3 on page 5). If the manual actuation does not operate properly, disassemble the valve (AY50452). Clean inside and the spool. Take an oil sample in order to inspect for any signs of debris. If the issue persists contact RigLine 24/7™ Support for additional assistance.

Table 1: Symptoms, Possible Causes and Corrective Actions (Continued)

Symptom	Possible Cause(s)	Corrective Action(s)
Unrequested forward movement of the skate. (continued)	<p>Damaged radio remote transmitter or faulty skate control lever.</p> <p>Short in electrical wiring for radio remote.</p> <p>Short in electrical wiring for control console.</p> <p>Faulty control console skate control lever or contact block.</p>	<p>Repair or replace wireless radio system.</p> <p>Check card number 0, input 12, wire number 0.12 on the PLC rack inside the main PLC cabinet. Ensure the input is false. If the input is true, troubleshoot wire number 0.12 between the PLC and the radio receiver (see Figure 4 on page 5).</p> <p>Check card number 4, input 14, wire number 4.14 on the PLC rack inside of the main PLC cabinet. Ensure the input is false. If the input is true, troubleshoot wiring between the PLC and the control lever contact in the control console (see Figure 4 on page 5).</p> <p>Repair or replace skate control lever and/or contact block.</p>
Skate will continue to move forward for up to 6" after the command has been removed by the operator.	Signal conditioning card improperly adjusted.	<ul style="list-style-type: none"> In the carrier J-Box, ensure that the signal conditioning card output voltage is 6.0 VDC, on wire 2013+ or pin 8 on the card (skate in the neutral state). Refer to sheet 27 on the electrical schematics. If the voltage is incorrect readjust the zero potentiometer to 6.0 VDC (see Figure 1 on page 4).
After movement in either direction, the skate will move forward approximately 12".	Skate motor chain improperly adjusted.	Properly adjust the skate tension. (see Figure 5 on page 6).



Figure 1: Signal Conditioning Card

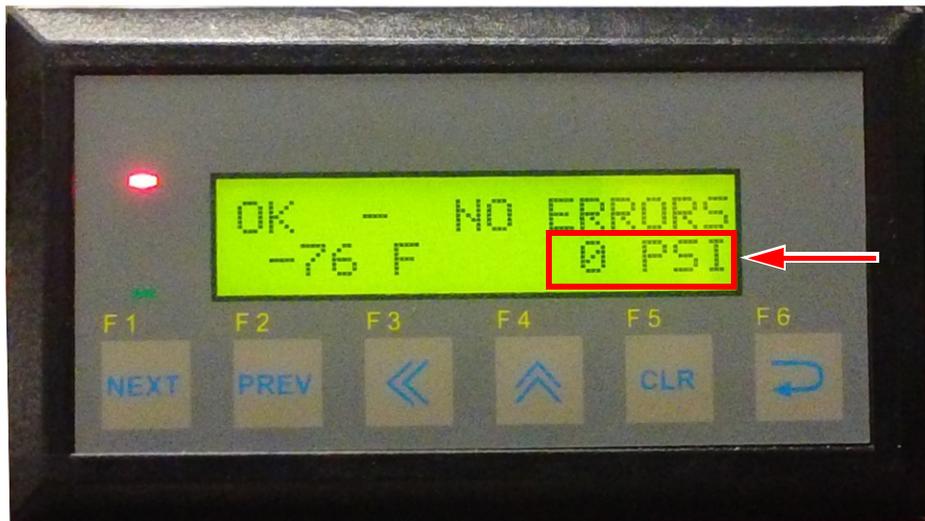


Figure 2: HMI System Pressure Display

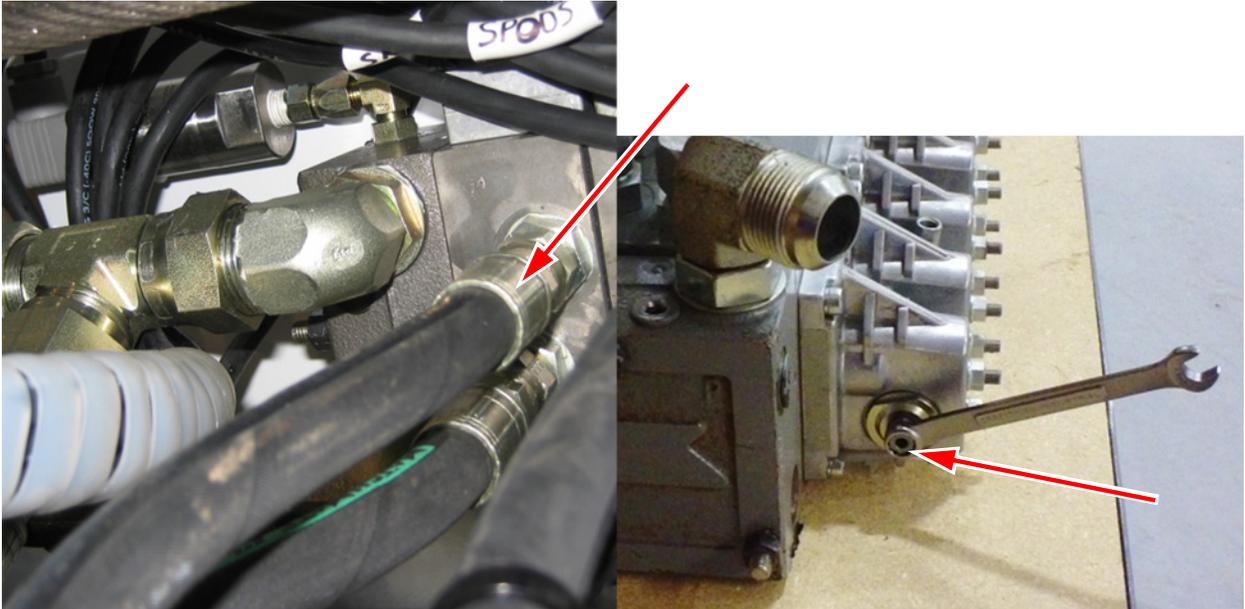


Figure 3: Carrier Valve Bank Skate Control Manual Actuator

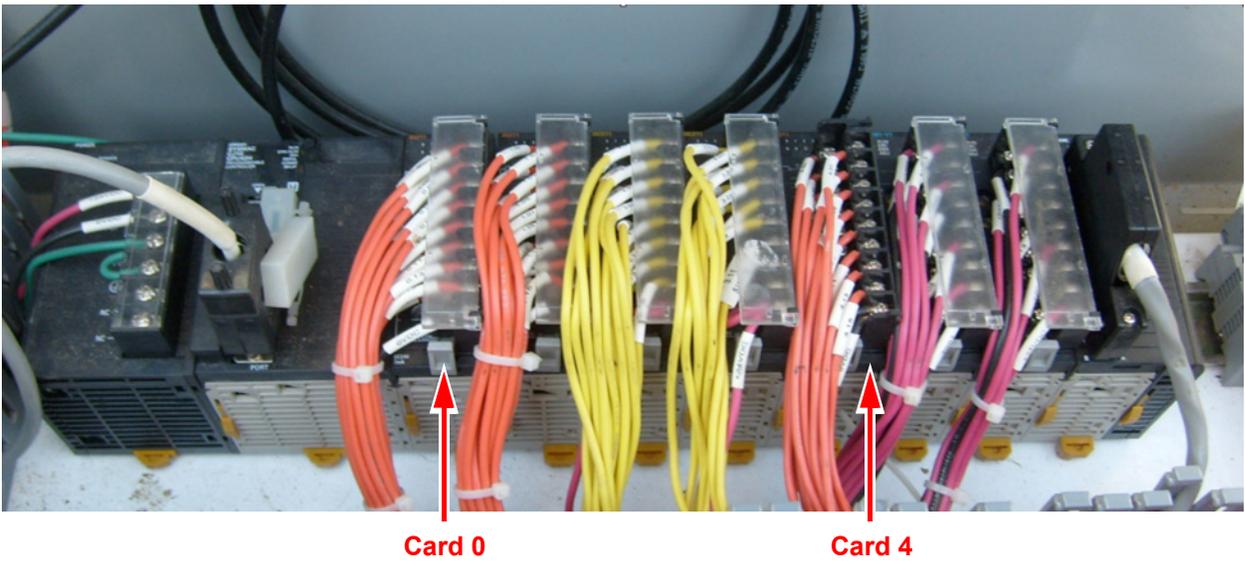


Figure 4: PLC Rack

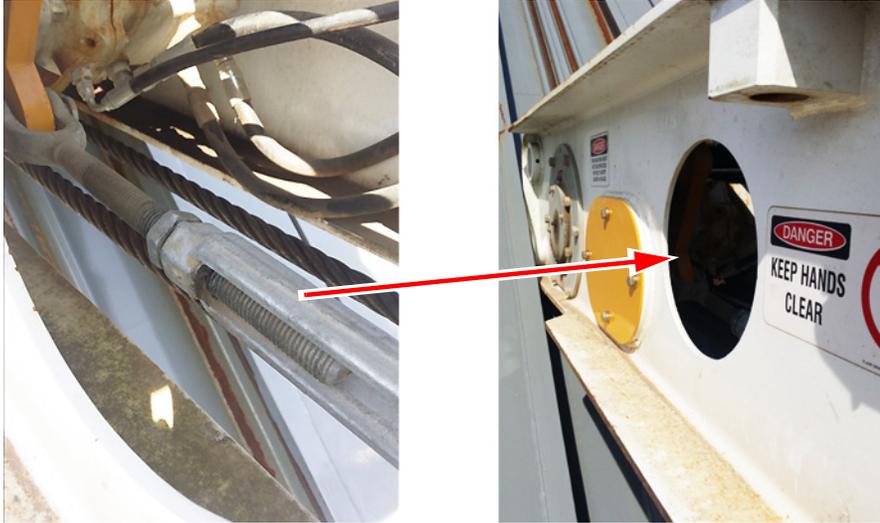


Figure 5: Skate Chain Adjustment