Controls

Spartan SPJC®

F E A T U R E S

The Spartan SPJC® CommandAll Controller for medium and heavy duty plow trucks is a fully proportional single-stick control with an integrated spreader control. Ergonomic design allows one-handed, finger-tip control of all spreader and hydraulic functions. The individual mini-joysticks on the handle offer superior control to push-a-button designs, and simultaneous proportional control of today's most popular functions.

- **Fully proportional controls**
  - Infinite speed control of up to seven operations simultaneously
- **Durable single-axis hall-effect main joystick**
- **Available in one, two and three mini-joystick configurations**
  - Flexibility to meet specific system needs
- **LED backlit nomenclature**
- **Programmable single-acting or dual-acting floats**
  - Float available on any joystick axis with optional three second delay
- **Integrated dash-key disconnect**
  - Completely disconnect system from battery when key switch is off
- **Joystick power-on detections**
  - Helps prevent unintended system operation
- **On-board visual diagnostics**
  - Intuitive feedback for operation and troubleshooting
- **Industry-leading safety**
  - Integrated ESTOP function shuts down joystick functions
  - Built-in deadman trigger prevents unintended operation

Additional Features

Mechanical hoist interlock - Avoid inadvertent hoist operation for operator safety. Meets hoist control regulations.

Full proportional control - Infinite speed control of up to seven operations simultaneously.

Control available in one, two, and three mini-joystick configurations - Application flexibility to meet your specific system needs.

Custom backlit nomenclatures
Safely operate all control functions in day or night conditions.

Emergency stop switch
Safety feature that immediately removes power from joystick functions.

Selectable valve drive frequency - Full Pulse Width Modulation (PWM) control with selectable drive frequency for optimum valve performance.

Solid-state protection - Self-diagnostic valve output driver automatically protects against over-current and over-temperature conditions.

Joystick power-on detection - Added safety prevent system operation when joystick activity is present at start-up.

Auxiliary switches - Control up to five auxiliary functions at 15A each.

High-flex cables - Ideal for hard to reach, seat-mounted applications.

Easy to learn, easy to use software-driven calibration - "Never Lost" Lite menu system with LiveCal allows full system calibration in minutes

CAN Bus joystick communication - The most reliable means of sending "mission-critical" control signals

Spartan SPJC equipped with 2100-5100 Spreader Control Models; ThumbCal is a remarkable easy-to-use tool for quickly calibrating your joystick functions via our "Never Lost" Lite menu system. Scroll wheel and built-in pushbutton selection, simplify calibration.

Spartan SPJC equipped with the cutting-edge 6100 Spreader Control Model; the joystick MIN and MAX speeds are easily calibrated on-screen via our full-feature, "Never Lost" menu system.

Electrical Specifications

Operating temperature range	-40° to +185°F
Operating voltage	10.0 to 16.0 VDC
Operating current	50A max with all outputs active
Protection	Over-voltage, under-voltage, over-current
Valve output type	PWM
Valve output current	2.0A
Valve drive frequency	50 or 125 Hz
Proportional valve drive outputs	18
Float outputs	4
Blast and standby output type	Open collector
Dashkey input	12.0 VDC

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