



# INNOVATIVE ELECTRONIC SOLUTIONS

Spreader & Joystick Controls

# SPREADER CONTROLS

At FORCE America we proudly engineer and manufacturer innovative electronic spreader controls designed for winter maintenance. We offer a range of controller options to meet the needs of all sizes of trucks and fleets, providing the power and efficiency needed to fight snow and ice with precision.

## SSC6100



The 6100 control system is the industry-leading integrated CAN Bus joystick and spreader controller. Embedded within the 10" color LCD, this controller comes fully equipped with camera integration, antenna and PreCise MRM cellular and GPS technologies greatly reducing the footprint of components within the cab.

### Features

- High Resolution 10" Color Touchscreen LCD
- Multiple Camera Feeds
- CAN Bus Central Processing
- Single Connector for Attachments
- Integrated AVL/GPS & Onboard Antenna
- PreCise MRM ARC Wireless Air & Road Conditions System
- Over-The-Air Updates, Configuration and Troubleshooting

## 5100ex

The 5100ex is a fully-integrated, all-in-one spreader control designed for heavy duty winter maintenance operations. Its compact, modern design offers intuitive navigation and comfort for a commanding solution with a wide range of control.

### Features

- Manual, open and closed loop controller capabilities
- Optional integrated control for the plow and hoist operation
- Ergonomic, compact design for comfortable operation
- Bright, bold color LCD touchscreen
- Backlit rocker switches for easy viewing at all times
- Interlock for use of critical functions
- Fully adjustable mounting options
- Built-in USB port for data retrieval and firmware upgrades



## SSC3100



Simple, manual spreading is what the SSC3100 spreader control is designed to do. This powerful yet conveniently simple controller provides the functionality needed with an ease of operation. This turnkey spreader is ready to go right out of the box.

### Features

- Proportional controls for granular and liquid applications
- Minimum and maximum settings adjustable through the calibration mode
- Preconfigured to spread on initial power-up
- Optional groundspeed interrupt
- Intuitive Control knobs
- Color LEDs around the dials illuminate the numbers as rates are increased
- Fully adjustable mounting options

# JOYSTICK CONTROLS

Our spreader controls are compatible with our thoughtfully designed joystick control systems. We work hard to engineer durable, ergonomic armrests that are rugged yet comfortable. We offer different mounting options designed for maximum driver comfort for the work ahead.

## PATROL COMMANDER® ULTRA

*(Compatible with 5100ex or SSC6100 spreader controls)*



The Patrol Commander™ Ultra Series Controller for medium and heavy duty plow trucks is a fully proportional control with integrated spreader control. Ergonomic design allows one-handed, finger-tip control of all spreader functions and up to nine hydraulic functions. Rigid construction ensures product quality for the life of the vehicle.

### Features

- Fully proportional controls
- Multiple joystick types and configurations available
- Redundant dual output joysticks for advanced diagnostics
- LED backlit nomenclature
- CAN Bus Technology
- Multiple float options available

## COMMANDALL® SINGLE

*(Compatible with SSC6100 only)*

The CommandAll Single is a high-quality, dual-axis hall-effect joystick with redundant outputs for guaranteed reliability. This rugged yet comfortable handle has six programmable push buttons that are able to be preset to the requirements of your fleet. A programmable interlock trigger allows for safe use of critical functions. Backlit switches are available for quick access to other special or auxiliary features.

### Features

- Dual-axis joystick with redundant outputs for advanced diagnostics
- Six programmable pushbuttons
- System interlock trigger
- LED backlit nomenclature
- CAN Bus Technology
- Multiple float options available





# AVAILABLE OPTIONS

## MULTIPLE JOYSTICKS



Customize your joystick controller with 3, 4 or 5 joystick configurations and choose from multiple joystick types. Our flexible design is sure to meet your specific system needs.

## CAB MOUNTING

Choose to mount the joystick and armrest to the floor with our slim Floor Mount Base or mount to the seat with our heavy-duty Seat Mount. Also available is our Display Mount Bracket that attaches directly to our armrest for easy installation and minimal cab space. All mounting options offer proper positioning for maximum driver comfort.



## SWITCH BOX ACCESSORY



Optional Switch Box accessory fits up to ten switches and is available in our standard or inview configuration. Designed to be mounted on the side of your armrest, all switches are within arm's reach of the driver to allow for easier and safer access to important functions.

## PRECISE<sup>®</sup> MOBILE RESOURCE MANAGEMENT

As part of the FORCE America family, the PreCise MRM solution is integrated deeply within our control systems. Accurate route, maintenance and material usage management, asset tracking, detailed mapping, and comprehensive reporting are all available as a part of a total system approach. PreCise MRM goes beyond AVL/GPS to provide a complete fleet management solution.



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