

Patrol Commander™ Controller

Model MPJ

The Patrol Commander™ Controller Model MPJ is a fully proportional control for medium and heavy duty mobile equipment. The MPJ controller incorporates up to five joysticks with a multitude of options. The MPJ controller has a superior ease of use that allows operators to quickly learn to operate and control up to 9 simultaneous functions without the use of mode menu selections.



Features

- **Fully proportional control**
Infinite speed control of up to nine (9) operations simultaneously.
- **Control available in one, two, three, four and five joystick configurations**
Application flexibility to meet your specific system needs.
- **Integrated dashkey disconnect**
Completely disconnect the system from battery when key switch is off.
- **Custom backlit nomenclatures**
Safely operate all control functions in day or night conditions.
- **Four (4) programmable 4-axis floats**
System flexibility offers operators float for any function on any joystick axis, all have independent 3-second float delay timer available.
- **Selectable valve drive frequency**
Full Pulse Width Modulation (PWM) control with selectable drive frequency for optimum valve performance.
- **Easy access trim-pot adjustments**
Access all trim-pot adjustments externally flush mounted on the back of the power distribution enclosure.
- **Solid-state protection**
Self-diagnostic valve output driver that automatically protects against over-current and over-temperature conditions.
- **Joystick power-on detection**
Added safety prevents system operation when joystick activity is present at start-up.
- **On-board visual diagnostics**
Status indicators provide direct feedback for quick troubleshooting.



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Additional Features

- Conveniently located sander standby, sander blast and body vibrator controls
Integrated pushbutton controls add to driver ease of operation.
- Input voltage monitoring
Prevents unsafe operation during low voltage or over voltage conditions.
- Integral hoist interlock with warning lamp
Avoid inadvertent hoist operation, a must for operator safety and meets OSHA hoist regulations.
- Innovative quick release mounting system
Allows the proportional control module to be removed from its mounting station for easy access to trim-pot adjustments, LED indicators, and bulkhead connections.
- Bulkhead style connectors
Secure twist and lock connections simplify system installation and maintenance.
- Large selection of valve harnesses available
Save time and money with pre-engineered harnesses for valve and component wiring.

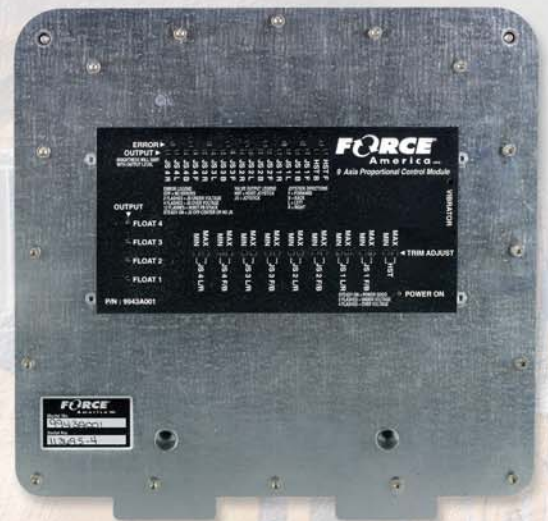
Proportional Control Module



Proportional Control Module with Quick Release Mounting Bracket

Electrical Specifications

- Operating temperature range -40° to +185°F
- Operating voltage 10.0 – 16.0 VDC
- Operating current 800mA max standby, 50A max with all outputs active
- Maximum output current 2.0A
- Protection over-voltage, under-voltage, over current, reverse polarity
- Valve output type PWM
- Valve drive frequency 50 or 125Hz
- Proportional valve drive outputs (18)
- Float outputs (4)
- Maximum float output 5.0A @ 12.0 VDC
- Maximum vibrator output 2.0A @ 12.0 VDC
- Maximum hoist warning output 2.0A @ 12.0 VDC
- Blast and standby current 20mA max
- Blast and standby output type open collector
- Blast, standby, and vibrator inputs 5.0 VDC
- Dashkey input 12.0 VDC
- Float enable input 12.0 VDC
- Hoist enable input 5.0 VDC
- Joystick inputs RS485 standard



Trim-pot Adjustment and LED Status Indicators on rear of Proportional Control Module