

CUSTOM HANDLES & JOYSTICKS

Programmable

Rugged

Diverse Choice of Controls

*Application
Specific*

- *Bases*
- *Handles*
- *Controls*

Flexible Design:

GS North America brings many years of design experience and proven product solutions to help you customize the look and feel of your machine. Utilizing our 3D design tools and rapid handle prototyping capabilities, we can quickly turn your idea into reality. GS North America has the ability to configure a combination of bases, handles and controls to suit your application.

Bases:

GS North America has certified multiple joystick bases from several manufacturers with different electrical designs and mechanical capabilities providing the X, Y and Z-axis motion of the joystick.

BASE CONTROLS

- J1939, CAN Open
- Hall Effect - Dual Redundant
- Potentiometric
- Pulse Width Modulation
- Directional Switches

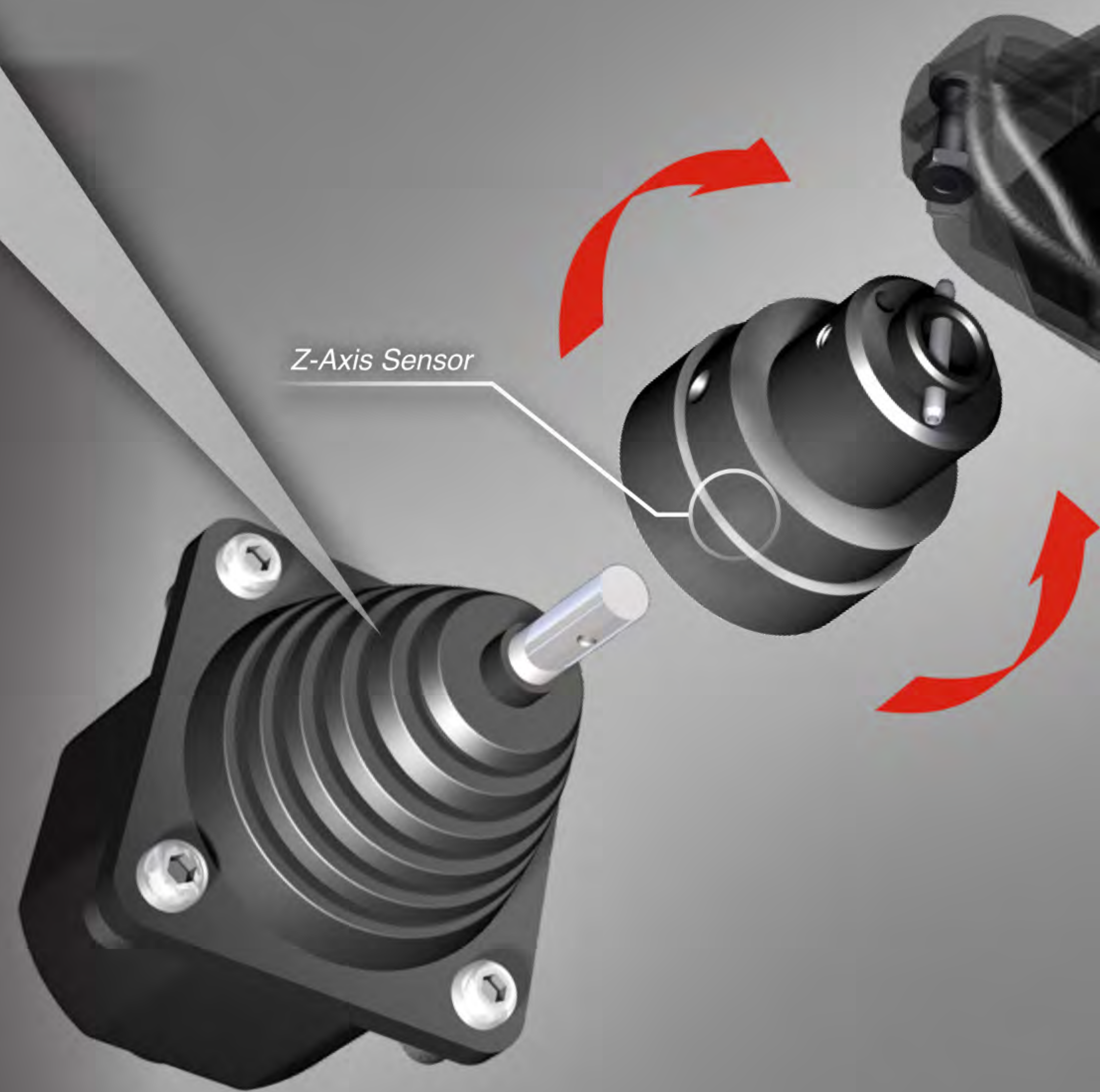
MOTION CONTROLS

- Single Axis
- Dual Axis
- Triple Axis
- Friction lock
- Spring return to center

MECHANICAL/DURABILITY

- Operating Life: 10,000,000+ cycles
- Environmental Protection: IP-65 to IP-67
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -55°C to +105°C

Connectors are dependent on the joystick base selected.



Available Features:

- Z-Axis Twist up to $\pm 30^\circ$ - Dual Hall Effect Sensors, fully sealed.
- Tactile Displacement Feedback "Thumper"
- Custom Software
- Custom Graphics



Handle Controls:

Having the most important functions at your fingertips allows for smooth and coordinated total machine control. GS North America has validated many supplier's controls which we mix-and-match in the handle to optimize performance. Correct component selection is critical for environmental concerns, ergonomics, and overall productivity.

- Proportional Rockers
- Dual Axis Thumbsticks
- Proportional Sliders
- Push Buttons
- Toggles
- Indicators
- Triggers



Handles:

GS North America understands that handles are the primary Human Machine Interface. We have implemented a wide variety of handle solutions based upon approved products from multiple suppliers. GS North America has also designed and manufactured custom handles to meet specific customer needs.

Customization:

PROGRAMMABILITY

GS North America has extensive experience in CAN programming to integrate the joystick with control systems. All handle controls can be wired and programmed into the CAN joystick base resulting in a single CAN node. Joystick programming provides precise machine movement using function ramping, pulse width modulation and feedback.

CUSTOM WIRING

Handle controls can be wired through the joystick or separate from the base with its own cable and custom connector.

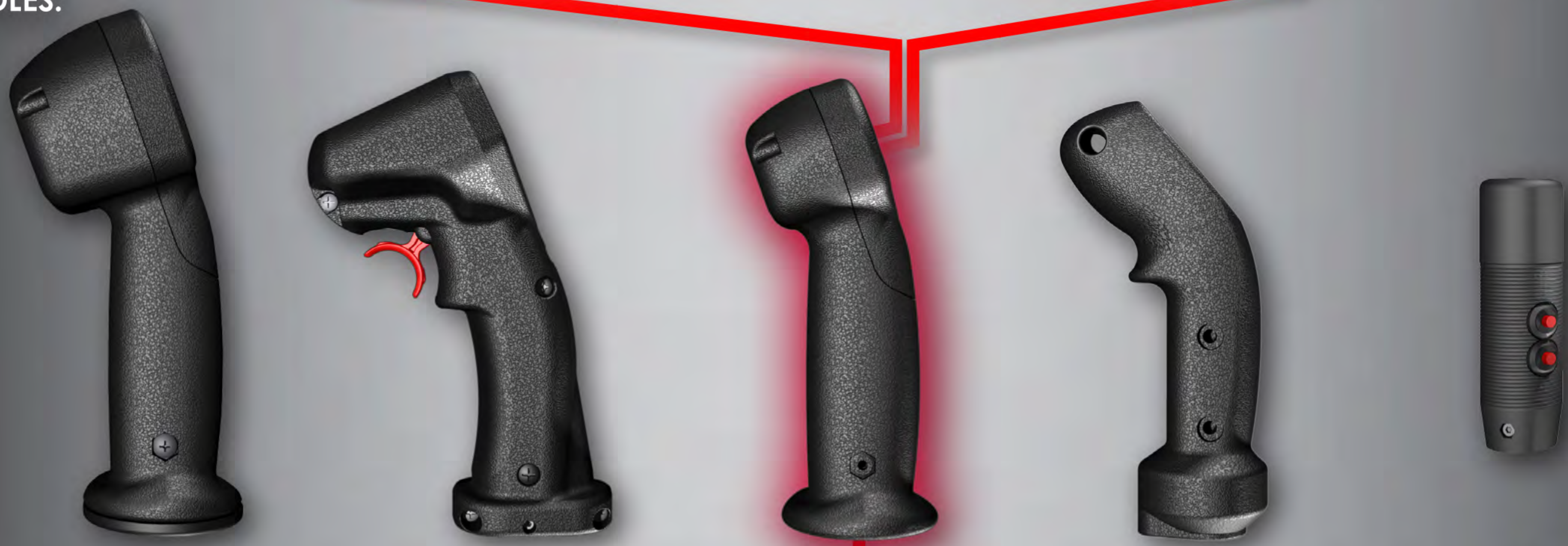


Product Variations:

CONTROLS:



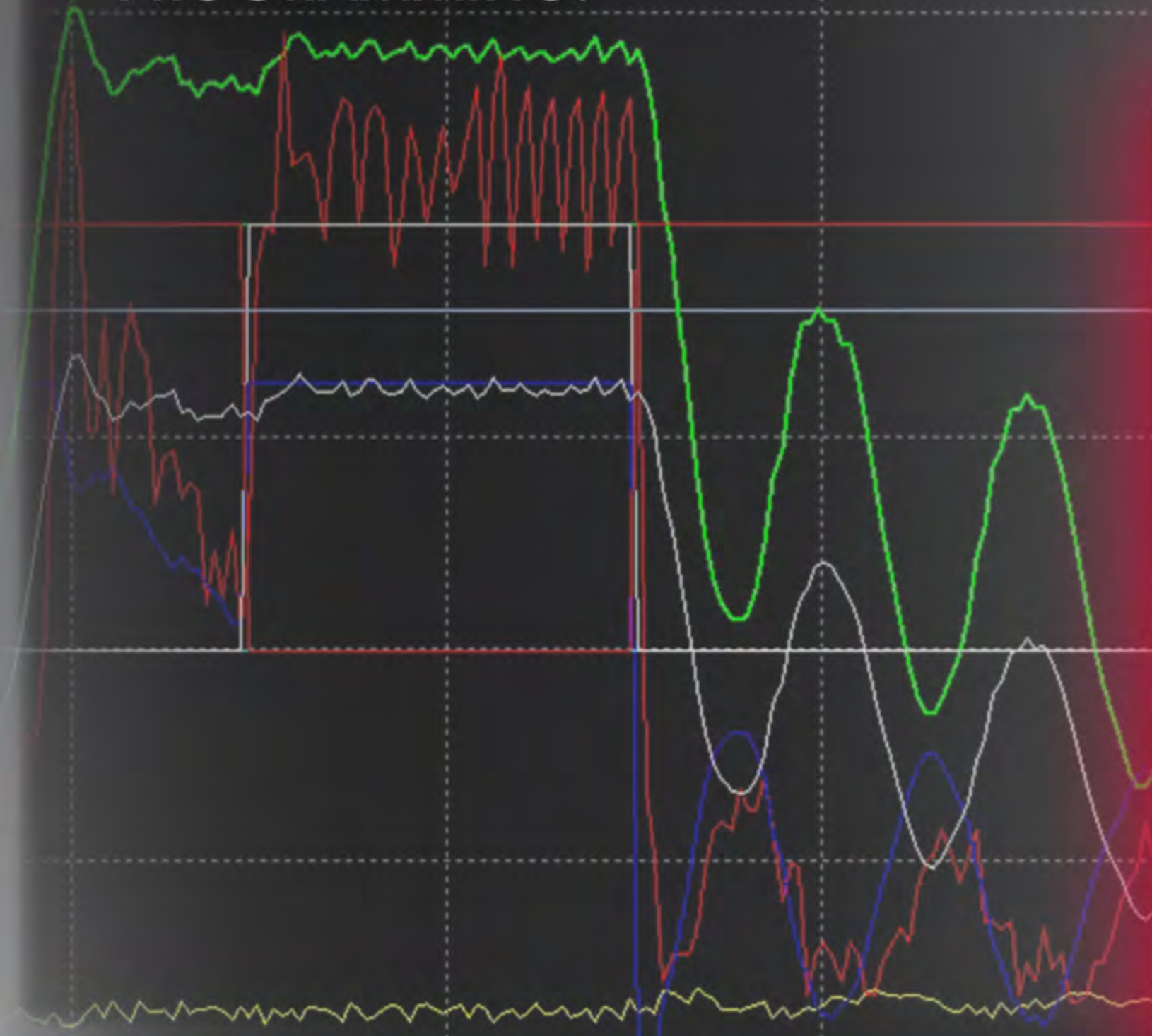
HANDLES:



BASES:



PROGRAMMING:



Hyd Level 100% 0%	Lift Press 4000 PSI 3500 PSI 0 PSI LH RH	Temp 143 °F	Fan 0 %	Lift Cylinders 100% 0% C1 C2 C3 C4
Swing LH: 0 MR RH: 0 MR		Suction 0 PSI		Lift Cylinders C1: 51 MR C2: 49 MR C3: 51 MR C4: 51 MR

Buttons: A, B, C, D, F1, F2, F3, F4, F5, Back

