MURPHY®

by **ENOVATION** CONTROLS

Murphy-Link Series Panels
Models ML25, ML50, ML100
ML150, and ML300

Installation and Operations Manual

In order to consistently bring you the highest quality, full featured products, we reserve the right to change our specifications and designs at any time. The latest version of this manual can be found at www.fwmurphy.com.

WARNING

BEFORE BEGINNING INSTALLATION OF THIS MURPHY PRODUCT:

Read and follow all installation instructions.

Please contact Enovation Controls immediately if you have any questions.

Table of Contents
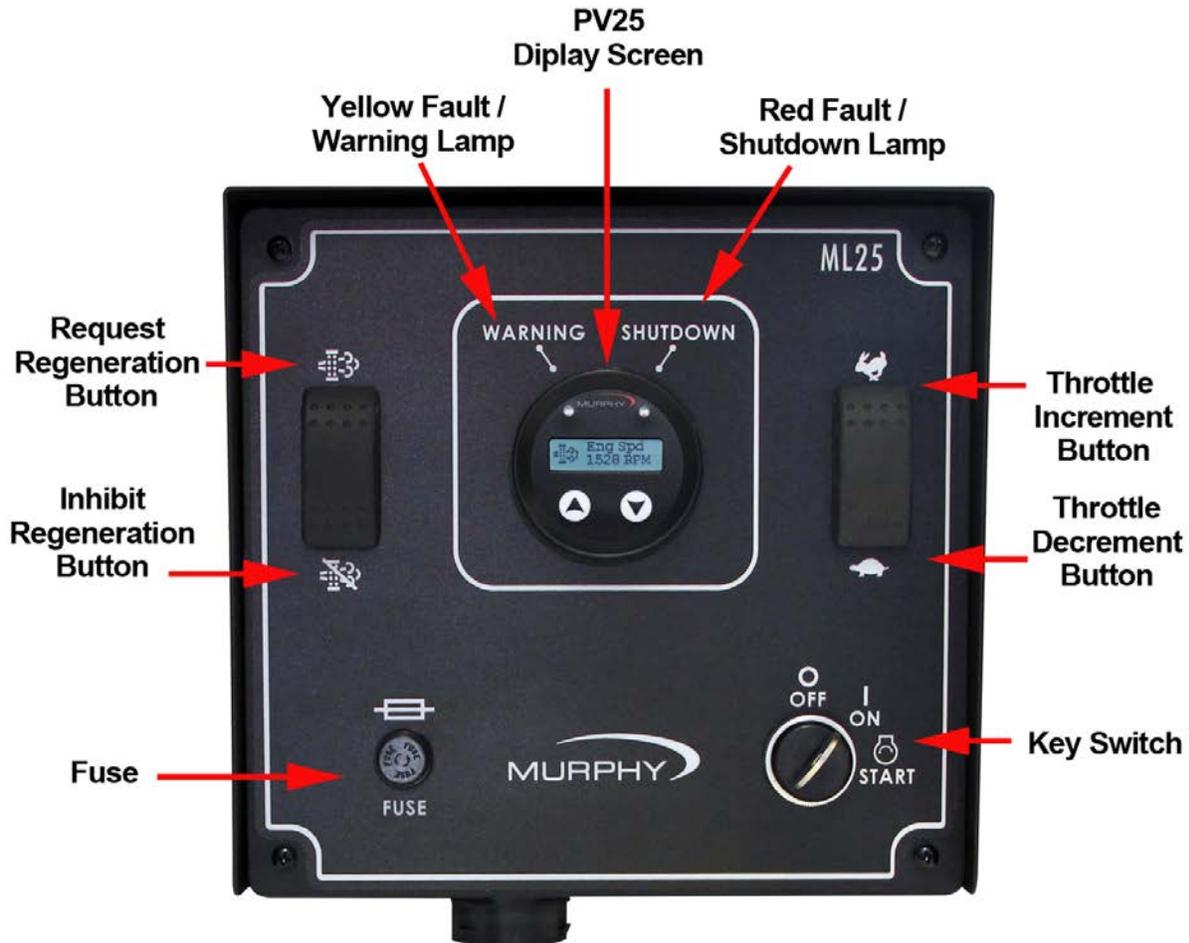
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ML25 Panel

The MurphyLink® Series ML25 Panel features the PowerView™ Model PV25 display. This J1939-compliant device provides electronic engine parameter data, is simple to install, and matches the PowerView line of rugged displays. The PV25 can be powered by 12 or 24 volt systems.

The PV25 is equipped with two push buttons to quickly access a convenient menu. In addition, a back-lit graphic display and two LED's indicate Active-fault Alarm or Shutdown status.

Active and Stored Fault messages display the SPN (Suspect Parameter Number), FMI (Failure Mode Indicator) and the OC (Occurrence Count) using the SAE J1939 protocol.

Please refer to the documents included within the panel shipment for the correct panel layout and schematic.

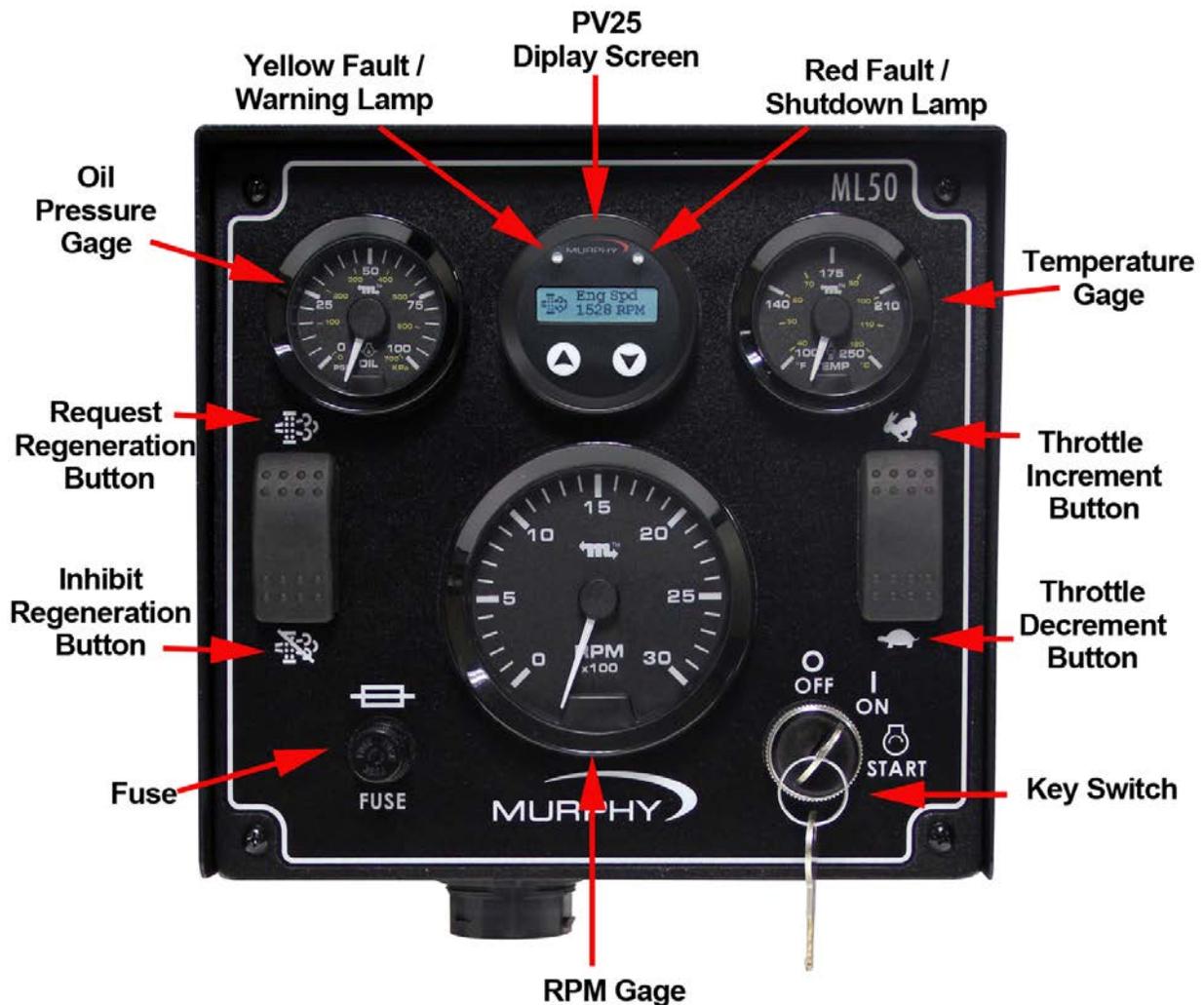| Feature	Description
PowerView Model PV25 Display	For additional information on the PV25 display, refer to "00-02-0839 - PV25-Installation and Operations" manual.
Yellow Fault/Warning Lamp	Indicates when a warning is present via CAN communications.
Red Fault/Shutdown Lamp	Indicates when a shutdown is present via CAN communications.
Request Regeneration Button	Allows the operator to send a request to engine to perform an active regeneration.
Inhibit Regeneration Button	Allows the operator to send a message to the engine to inhibit the engine from performing an active regeneration.
Throttle Increment Button	Allows the operator to throttle engine up via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Increment "Bump" = 25RPM, default adjustable; Ramp Up "Hold" = 200RPM, default adjustable)
Throttle Decrement Button	Allows the operator to throttle engine down via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Decrement "Bump" = 25RPM, default adjustable; Ramp Down "Hold" = 200RPM, default adjustable)
Key Switch	Operator initiated cranking of engine via turning the key to crank state.

ML50 Panel

The MurphyLink® Series ML50 Panels feature PVCAN gages and the PowerView™ Model PV25 display. This J1939-compliant device provides electronic engine parameter data, is simple to install, and matches the PowerView line of rugged displays. The PV25 can be powered by 12 or 24 volt systems.

The PV25 is equipped with two push buttons to quickly access a convenient menu. In addition, a back-lit graphic display and two LED's indicate Active-fault Alarm or Shutdown status.

Active and Stored Fault messages display the SPN (Suspect Parameter Number), FMI (Failure Mode Indicator) and the OC (Occurrence Count) using the SAE J1939 protocol.

Please refer to the documents included within the panel shipment for the correct panel layout and schematic.
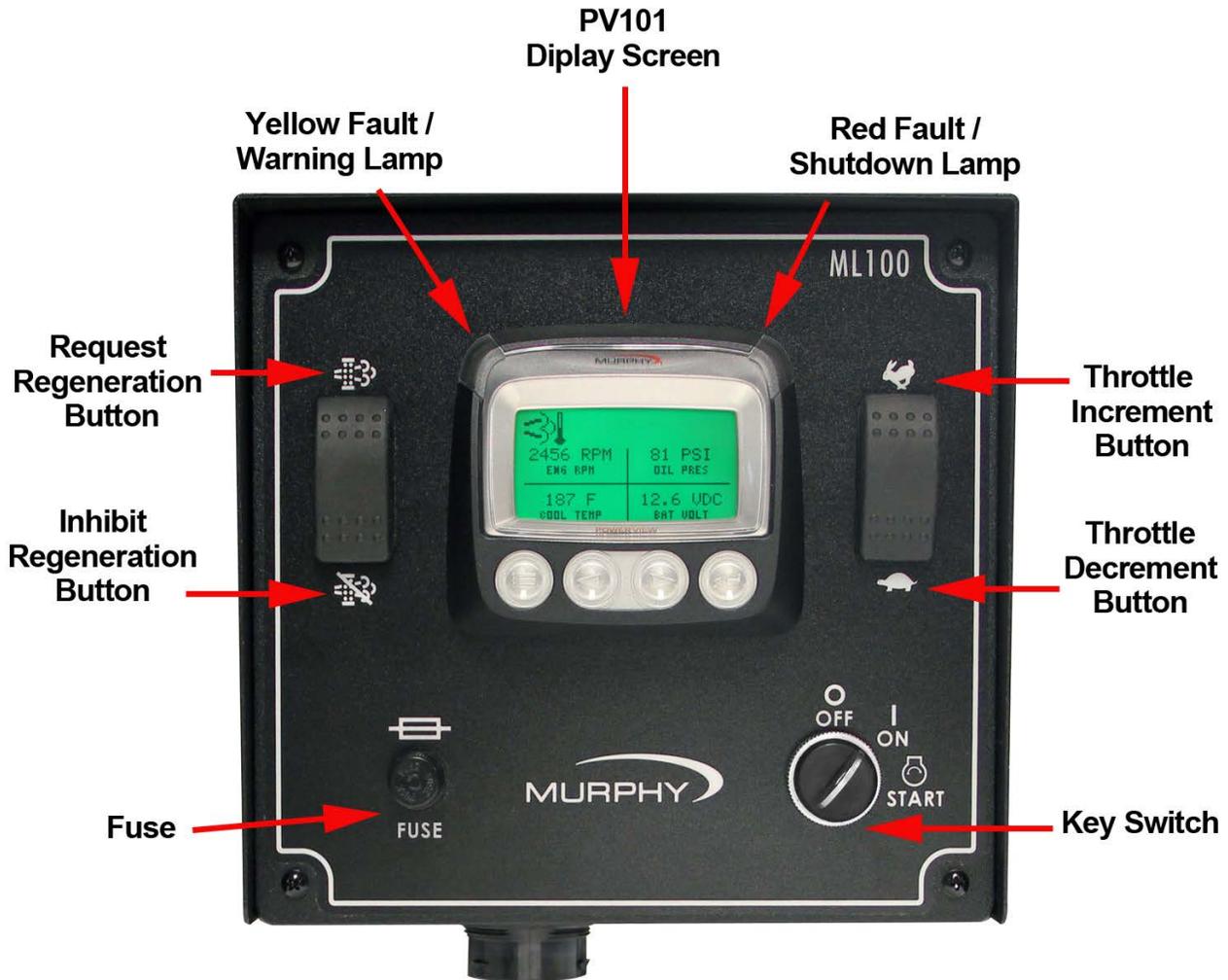
Feature	Description
PowerView Model PV25 Display	For additional information on the PV25 display, refer to "00-02-0839 - PV25-Installation and Operations" manual.
Yellow Fault/Warning Lamp	Indicates when a warning is present via CAN communications.
Red Fault/Shutdown Lamp	Indicates when a shutdown is present via CAN communications.
Request Regeneration Button	Allows the operator to send a request to engine to perform an active regeneration.
Inhibit Regeneration Button	Allows the operator to send a message to the engine to inhibit the engine from performing an active regeneration.
Throttle Increment Button	Allows the operator to throttle engine up via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Increment "Bump" = 25RPM, default adjustable; Ramp Up "Hold" = 200RPM, default adjustable)
Throttle Decrement Button	Allows the operator to throttle engine down via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Decrement "Bump" = 25RPM, default adjustable; Ramp Down "Hold" = 200RPM, default adjustable)
Key Switch	Operator initiated cranking of engine via turning the key to crank state.

ML100 Panel

The MurphyLink® Series ML100 Panel features the PowerView™ Model PV101-C display, a key switch, and increment/decrement throttle. The PV101 Display is a multifunction tool that enables equipment operators to view many different engine or transmission parameters and service codes.

Please refer to the documents included within the panel shipment for the correct panel layout and schematic.
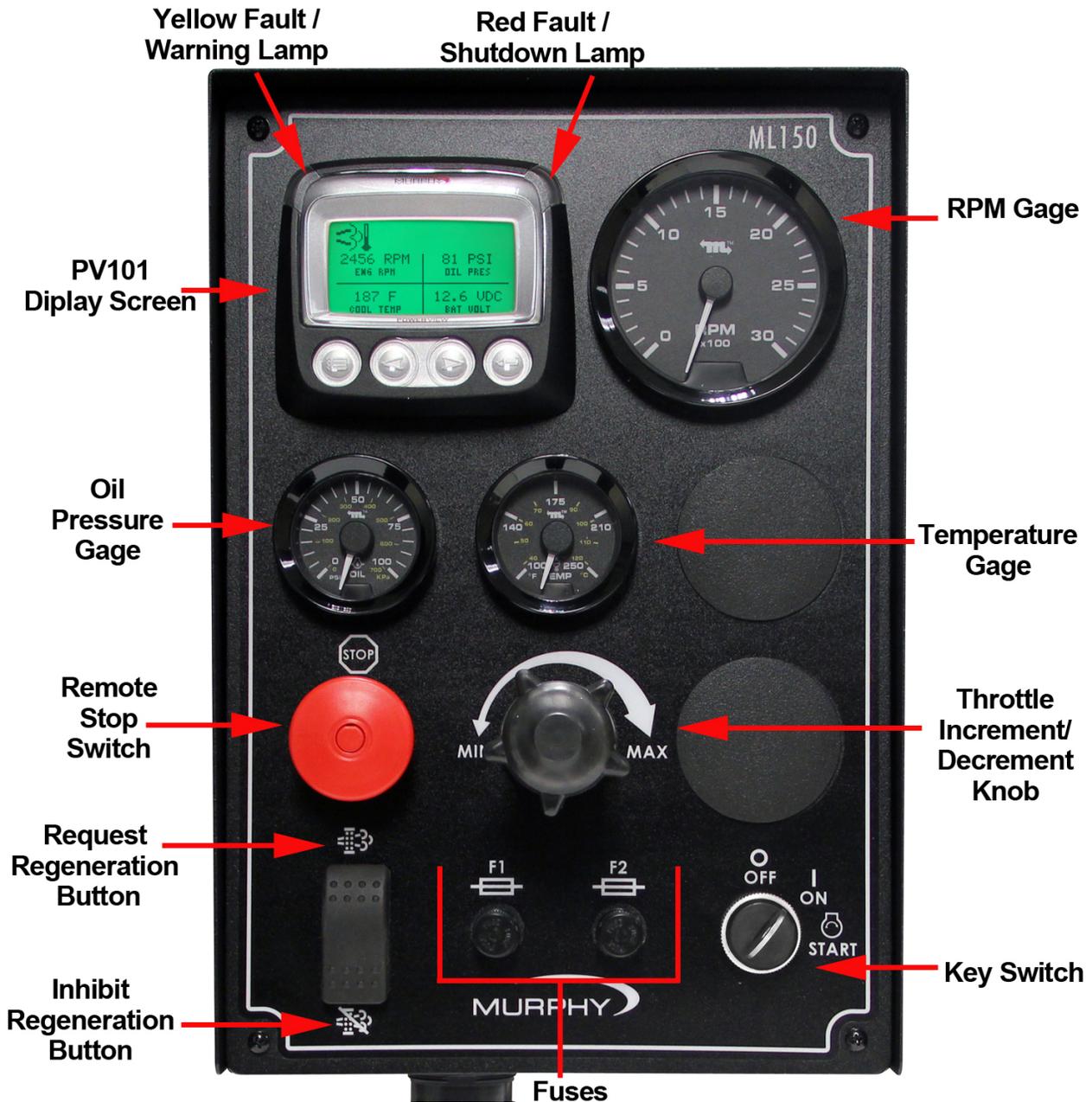
Feature	Description
PowerView Model PV101-C Display	For additional information on the PV101-C display, refer to "00-02-0796 – PV101-C-v3.2 -Installation and Operations" manual.
Yellow Fault/Warning Lamp	Indicates when a warning is present via CAN communications.
Red Fault/Shutdown Lamp	Indicates when a shutdown is present via CAN communications.
Request Regeneration Button	Allows the operator to send a request to engine to perform an active regeneration.
Inhibit Regeneration Button	Allows the operator to send a message to the engine to inhibit the engine from performing an active regeneration.
Throttle Increment Button	Allows the operator to throttle engine up via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Increment "Bump" = 25RPM, default adjustable; Ramp Up "Hold" = 200RPM, default adjustable)
Throttle Decrement Button	Allows the operator to throttle engine down via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Decrement "Bump" = 25RPM, default adjustable; Ramp Down "Hold" = 200RPM, default adjustable)
Key Switch	Operator initiated cranking of engine via turning the key to crank state.

ML150 Panel

The MurphyLink® Series ML150 Panels include the PowerView™ PV101-C Display and the M-Link™ PowerView Analog Gages. The PV101 Display is a multifunction tool that enables equipment operators to view many different engine or transmission parameters and service codes. M-Link PowerView Analog Gages display critical engine data broadcast by an electronic engine: engine RPM, oil pressure, and coolant temperature.

Please refer to the documents included within the panel shipment for the correct panel layout and schematic.

Feature	Description
PowerView Model PV101-C Display	For additional information on the PV101-C display, refer to "00-02-0796 – PV101-C-v3.2 -Installation and Operations" manual.
Yellow Fault/Warning Lamp	Indicates when a warning is present via CAN communications.
Red Fault/Shutdown Lamp	Indicates when a shutdown is present via CAN communications.
Request Regeneration Button	Allows the operator to send a request to engine to perform an active regeneration.
Inhibit Regeneration Button	Allows the operator to send a message to the engine to inhibit the engine from performing an active regeneration.
Throttle Increment Button	Allows the operator to throttle engine up via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Increment "Bump" = 25RPM, default adjustable; Ramp Up "Hold" = 200RPM, default adjustable)
Throttle Decrement Button	Allows the operator to throttle engine down via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Decrement "Bump" = 25RPM, default adjustable; Ramp Down "Hold" = 200RPM, default adjustable)
Key Switch	Operator initiated cranking of engine via turning the key to crank state.
Remote Stop Switch	Operator initiated switch. Push to shutdown engine. Pull to enable cranking via key switch.

ML300 Panel

The MurphyLink® Series ML300 Panels include the new PowerView™ Model PV300 display that provides advanced monitoring of electronic engines designed to meet Tier 4/Euro Stage IV emissions requirements. The model PV300-P monitors multiple engine and machine parameters on an easy-to-read 3.8-inch (97 mm) QVGA monochrome LCD.

Please refer to the documents included within the panel shipment for the correct panel layout and schematic.

Feature	Description
PowerView Model PV300 Display	For additional information on the PV300-P display, refer to "00-02-0834 – PV300-P -Installation and Operations" manual.
Yellow Fault/Warning Lamp	Indicates when a warning is present via CAN communications.
Red Fault/Shutdown Lamp	Indicates when a shutdown is present via CAN communications.
Request Regeneration Button	Allows the operator to send a request to engine to perform an active regeneration.
Inhibit Regeneration Button	Allows the operator to send a message to the engine to inhibit the engine from performing an active regeneration.
Throttle Increment Button	Allows the operator to throttle engine up via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Increment "Bump" = 25RPM, default adjustable; Ramp Up "Hold" = 200RPM, default adjustable)
Throttle Decrement Button	Allows the operator to throttle engine down via CAN communication utilizing TSC1 capabilities. Takes operator to 'Desired Engine Speed' screen when pressed. (Decrement "Bump" = 25RPM, default adjustable; Ramp Down "Hold" = 200RPM, default adjustable)
Key Switch	Operator initiated cranking of engine via turning the key to crank state.
Home Button	Allows operator to toggle through screens and exit the settings of the display without saving changes.
Arrow Left Button	Allows operator to scroll through faults on gage screens and settings once in the 'Settings' screen.
Arrow Right Button	Allows operator to scroll through faults on gage screens and settings once in the 'Settings' screen.
Enter Button	Allows operator to select settings within the setting screen for adjustability and saving.

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Printed in the USA