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Bosch Rexroth Canada Corp. reserves the right to revise this information at any time and for any reason and reserves the right to make changes at any time, without notice or obligation, to any of the information contained in this piece of literature. The information shown in this manual features the latest version of software as of publication; therefore, some features shown will not be available on older versions of software in use by some customers.

Please check for updates at: [www.boschrexroth.ca/compu-spread](http://www.boschrexroth.ca/compu-spread)
1 Operator Screen Layout

**WIDTH**
- Sprd Width (Lane)
- Sprd Width setpoint
- Pause Button

**SOLID**
- Solid Name
- Solid Rate
- Gate Position
- Solid Mode
- Pass Button

**LEFT ↔ RIGHT**
- Chute Left/Right
- Chute position

**PREWET**
- Prewet Name
- Prewet Rate
- Prewet Setpoint
- Prewet Mode

**Trip Summary**
- Toggle between Total and Spreading Distance (S)
- Total Quantity
- Total Prewet Volume
- Total Anti-icing Volume
2 Programming Mode

All symbols on the right of the screen require a tap and hold for >1 second.

Note: A valid PROGRAMMING USB key must be on the USB port. The PROGRAMMING USB key is for programming and log data, and the LOG DATA USB key will only retrieve data.

Press symbol to enter into programming mode.
3 Program Screen Layout

Note: Due to the compact nature of these screens, the use of a selection tool like a pen or stylus is recommended.
4 Changing Fields

Note: Due to the compact nature of these screens, the use of a selection tool like a stylus is recommended.

When selecting an item without a pull-down selection menu, a keypad is required. This keypad is used to enter text or numeric values. The example shown is “TRUCK-ID”.

5 Initial Set-up

1. Set the units to imperial (LBS/Mile) or metric (Kg/Km).
2. Set the TRUCK ID.
3. Set the REGION NAME.
4. Set the DRIVER ID (optional), 4 driver IDs allowed.  
   Note: Configuring 4th driver ID to ‘USER” enables operators to enter user defined driver ID on operator screen for AVL interface.
5. Set the type of Temperature Sensor (optional).
6. Set the Options – see Advanced Features on page 17 (optional).
7. Set the items that the user has access to(optional).
8. Set Blast Timer, 0-timer disabled (optional). This should be set less than Err01 delay.
9. Set Percentage of Temp. compensation when there is a 3 degree change (optional).
10. Set the vehicle speed alarm (optional).
11. Select AVL or GPS tracking (optional).
12. Set WIFI/TIME/STYLUS (if required). Note: Save only applies to changes to Date/Time/WiFi/Stylus. Note: This save only applies to these settings.

The default error configuration values will work well for most applications, no changes required.

6 Operator ID Input

By enabling this feature, operators may enter a unique ID, which is only supported for the AVL system.

- Select DRIVER ID #4 by using the green arrow in the main program screen.
- Enter ‘USER’ in the ID field
- Exit the setup screen to save changes
7  Ground Speed Calibration

1. Select symbol to enter into the ground speed calibration screen.
2. Choose which calibration option best suits your situation.
3. Follow the instructions on the screen.
4. Press Start when the vehicle speed is steady. Note: Speed is best calibrated between 20-25 MPH for the best accuracy.
5. Once calibration is complete, verify the speed by driving the vehicle through its speed range and verify if the controller matches the speedometer.

8  Valve Nulling – Conv/Spn/Chute/Prewet/Norm

1. Select symbol to enter into the calibration screen.
2. Select the appropriate mode:
   - **Spinner** – Auto, PPS, Manual (default), Half Lane, One Lane
   - **Conveyor/Auger** – Auto, Open LP, Man-Spd, Manual (default), SQM
   - **Chute** – Manual (fixed), Read Back, Auto
   - **Prewet** – Fixed, V-Flow (default), Manual, Manual-SPD, Return Oil
   - **Norm** (Anti-icing) – Off (default), 1 Boom, 3 Boom, Manual
3. Set correct conveyor sensor pulses/rev if Closed loop is selected.
4. Ensure the hopper is empty, and the truck is safe to operate.
5. Start the engine to achieve adequate oil flow.

If the Auto mode is selected for **Conveyor**, Auto mode for **Spinner**, V-Flow or Return Oil mode for **Prewet**, and 1 Boom or 3 Boom is selected for **Norm** (Anti-icing) it is strongly recommended to run **Auto Null**. For manual mode please skip 6.1 and follow 6.2 Manual Nulling instructions.
8.1 Auto Nulling

1. Press “Auto Null” to start. This procedure will automatically ramp up output to the selected motor then ramp down again capturing the both “Min” and “Max” speed values and storing them as a saved calibration. Note: This feature can only be used with motors with speed or flow feedback (i.e. Conveyor/ Auger, Prewet, Anti-icing, etc.).

2. Please check the “Min” null value to verify it is minimum. (Ex. 1,2,3 RPM)

8.2 Manual Nulling

1. Press “Min” value field to pop up the UP/DN arrows and enter into edit mode.

2. Use up and down arrows to adjust speed so that the motor just begins to turn

3. Press the “Min” value field again to end the edit mode and accept the value

4. Do the same for “Max” except adjust the motor to a safe maximum speed or until the RRM readout stops to increase.

5. Forward Gain and Blast settings can also be adjusted

6. Repeat this procedure for all the vehicle motors (i.e. Conveyor/Auger, Spinner, Prewet, Anti-icing, etc.).
8.3 Spinner Width Calibration

Note: The conveyor and spinner motor sizes and flow rates should be chosen as to limit the number of lanes the system can actually cover before Spinner Width calibration takes place.

1. Measure and Enter the chute ‘width’ in mm or inch
2. Press “WIDTH CAL” button to start
3. Turn on the Conveyor to discharge material
4. Turn on the Spinner, and adjust to typical spread width
5. Click on the ‘rpm/width’ to enter the width in mm(Metric) or inch(Imperial)
6. Press ‘END CAL’ button to finish

Note: rpm-max Spinner RPM, width-spread width per rpm(mm/inch)
9 Chute Calibration

1. Select the Chute tab.
2. Press L or R button to move the chute left or right and also make sure the feedback works properly and check if the speed of chute movement is desirable. The speed of chute for both directions can be adjusted individually. The default is 60%. It is recommended to set both speeds the same.

10 Material Calibration

Solid Material Calibration

1. Tap on the "valve" symbol and CONV tab to enter into solid calibration.
2. Place an adequate catch container under the spreader discharge chute.
3. Make sure that sufficient material in the hopper and the system is safe to run.
4. Set gate position: Manual - Change CAL Gate to match actual gate position
5. Press "CALIBRATION" button to proceed.
6. Turn CONV Knob and/or SPN Knob to run.
7. Stop when desired amount is reached.
8. Weigh the material and enter the value.
9. Press "CALIBRATION" Button to complete.

Note: Press “STOP” button to stop the process anytime during calibration.
Liquid Material Calibration (Prewet or Anti-icing)

1. Tap on symbol and PREWET/NORM tab to enter into liquid calibration.
2. Place an adequate catch container under the liquid spray nozzle.
3. Make sure that sufficient liquid in the tank and the system is safe to run.
4. Press “CALIBRATION” button to proceed.
5. Turn PREWET Knob to run.
6. Stop when desired amount is reached.
7. Measure the liquid volume and enter the value.
8. Press “CALIBRATION” Button to complete.
11 Material Catch Test

1. Tap on symbol to enter into the material calibration screen.
2. Place an adequate catch container under the spreader discharge chute.
3. Press “CATCH TEST” button to start, and enter the desired rate, speed and duration (seconds) using on-screen keypad.
4. Press “CATCH TEST” button to begin material dispensing (hydraulics must be active).
5. When dispensing is stopped, weigh the material and enter the value.
6. Press “CATCH TEST” button again to end.
7. An appropriate weight per revolution will be calculated and displayed on the bottom right of the screen.
8. Repeat this procedure for all solid materials (use the green left and right arrows to select material types).
9. The individual rates can be adjusted by tapping the rate and editing the value with the keypad.
10. These same procedures apply to pre-wet and liquid. Note: Granular spread rate is defaulted to 2000 lbs/Mile.

Note: The material names can be changed by tapping on the text “SALT - -” and using the keypad to edit.
12 Load Parameters

The operation requires an USB PROGRAM key. It allows end users to load parameters from an existing file on the USB stick.

1. Ensure an USB PROGRAM key inserted
2. Tap on USB symbol.
3. Select a file to load from the popup file window.
4. Click on the “Select” or “Cancel” button to select or cancel.
   Then the popup file window would close, and red “Load” text shows up on the USB symbol if a file is selected.
5. Tap on the Door Symbol to exit to the operation mode.
6. Turn the unit off, and on again for the new parameter to take effect.
If a wrong file is selected an error message will pop up (OI version 15 or newer).

**WARNING !!!**

**WRONG FILE, Please check and load again**

Click on screen to proceed!
To check the parameter file loaded by clicking on the ‘gear’ icon when the truck is stationary (OI version 15 or newer).

13 Advanced Features

Tap on symbol to enter into the user calibration screen. This series of drop-down menus allow the adjustment of special features of the 550 system.

System Reset – Press and hold the preset button for 5 seconds.

WARNING: All parameters will be reset to factory defaults.
**Temperature Sensors** – Roadwatch, Surface Patrol

**System Options** – Normal, Chute, Option

**User Options** – MATERIAL and or GATE (operators allowed to adjust without a programming key).

**Blast Timer** – Blast turns off automatically when time out

**Speed alarm** – alarm will sound when the set speed is exceeded.

**Temp Comp** – Temp compensation, per three degree change

**Check Marks:**
- **simIce**-Simulated Anti-Icing
- **chutOp**-Select for electrically operated chute (Version 7 and later)
- **mBlast** – Option to set Blast to momentary action(OI Version 5 and later)
- **Dimr** – Screen auto dimmer (Version 5 and later)
- **GPS/AVL** – GPS tracking, require a serial cable (R987376776) and a GPS receiver Puck (R987380745), or AVL interface.
- **W/L** – Prewet and Anti-icing operation interlock with an asymmetrical valve
- **Auger** – Once checked the gate change is disabled
- **Fr** – French version
- **B Sw** – Enable external boom switches (**AUX pin3-R, pin4-C, pin5-L**)
- **LastP** – Remember the last knob positions at power up.
- **L lvl** – Use MAT change input as liquid level detection.
- **Dig** – Disable remote Pause/Blast, and use them as digital inputs
- **mode** – Allow operators to change modes without using a PROGRAM key. Select this, W/L, and b Sw to allow the operator to switch between spreading and 3 boom anti icing modes. See Symmetry Operator manual for details on switching modes.
- **OAOff** – Disable Over Application Error Messages (OI Version 8 and later)
- **JoyScn** – Operator screen defaults to joystick screen.
- **VoiceOff** – Turn off voice readout for spreader functions.
- **VolAdj** – Allow operators to adjust volume without programming key
14  GPS Options and WiFi Data Transfer

14.1  GPS – Passive GPS Tracking

14.2  AVL – Active Vehicle Locating Interface
Note: AVL vendor needs to decide which cable to use

AVL Interface

‘AVL’ displayed if the interface is OK.
14.3 WiFi Setup

If equipped with WiFi option make sure an internal or external antenna is connected before setting it up. Similar to standard PC there are two parts that need to be set up, Wireless Connection and Network Settings.

When the network icon is pressed, the following window will pop up:

![WiFi Setup Window]

The WiFi setup is almost identical to standard Windows:

- Select the Wireless Information tab at the top
- Uncheck ‘Notify me…’ to stop this window from popping up every time the system starts up.
- Select the network you wish to use
- Click on ‘Connect’
- Enter ‘network key’

Note: Only one preferred network can be stored at a time, or this will cause a conflict. If a preferred network already exists, please ensure you have firmware version 6 or higher installed and do the following:

- Close the Wifi setup dialogs shown on the right so you are back to the setup screen.
- Press and hold the WiFi network icon for 5 seconds,
When the ‘IP Address/Name Server’ icon is pressed the following window opening up:

GSPI86861 (WiFi Setup), click this icon ONLY to configure IP Address and name servers if it is required.
SDIO87872 (Future connection, NOT USED)
AX88772B1 (Ethernet, NOT USED)
For each 550 controller a unique static IP address needs to be assigned, record all the IP addresses for setting up in the WiFi Desktop Program.

To connect the controllers to a network DNS/WINS need to be set up too (consult to IT department for correct settings)

Note: Any changes to WiFi/Network settings/Time/Stylus recalibration need to be saved by clicking the save icon on the bottom of the screen.

If multiple preferred networks were configured by accident, pressing save will delete all set up networks and a dialog will pop up stating they were deleted. You will have to reconfigure the WiFi network settings.

Note: Since WiFi Transfer loads all parameter and log files it is necessary to remove all unused data files. Here are two steps:
A PROGRAM key is required for this operation

- Adjust 3 knobs to position 8
- Press&Hold USB icon for 20 seconds

14.4 550 WiFi Desktop Program

When the 550 Desktop software is installed an icon is created on the desktop for the WiFi Program.

- Add the IP addresses of all the 550 controllers to the list
- Check/Uncheck ‘Use’ to enable/Disable any individual 550 controller connection
- Click on ‘Run’ to start up the program (the program continuously searching 550 controllers within the WiFi coverage, connecting, and downloading both parameter and log data as well as GPS data if the GPS tracking option is selected.
- Click on ‘Done’ to minimize the WiFi Desktop program.
15 Error Codes

The following error messages are user configurable, both timeouts and controller actions.

<table>
<thead>
<tr>
<th>Error Description</th>
<th>#</th>
<th>Suggested Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERROR_BLAST_TOO_LONG</td>
<td>1</td>
<td>Turn off blast/time too short</td>
</tr>
<tr>
<td>ERROR_DEICE_BLST_TOO_LONG</td>
<td>2</td>
<td>Turn off blast/time too short</td>
</tr>
<tr>
<td>ERROR_OVERSPEED</td>
<td>3</td>
<td>Slow down or raise gate</td>
</tr>
<tr>
<td>ERROR_SPIN_PROP</td>
<td>4</td>
<td>Check cables, replace coil</td>
</tr>
<tr>
<td>ERROR_CONV_PROP</td>
<td>5</td>
<td>Check cables, replace coil</td>
</tr>
<tr>
<td>ERROR_CROSS1_PROP</td>
<td>6</td>
<td>Check cables, replace coil</td>
</tr>
<tr>
<td>ERROR_CROSS2_PROP</td>
<td>7</td>
<td>Check cables, replace coil</td>
</tr>
<tr>
<td>ERROR_NO_MATL_DETECT</td>
<td>8</td>
<td>Load material, check sensor</td>
</tr>
<tr>
<td>ERROR_NO_LIQ_DETECT</td>
<td>9</td>
<td>Load material, check sensor</td>
</tr>
<tr>
<td>ERROR_NO_GROUNDSPEED</td>
<td>10</td>
<td>Check cable/sensor</td>
</tr>
<tr>
<td>ERROR_NO_CONVEYOR</td>
<td>11</td>
<td>Check cable/sensor</td>
</tr>
<tr>
<td>ERROR_NO_LIQUID</td>
<td>12</td>
<td>Check cable/sensor</td>
</tr>
<tr>
<td>ERROR_NO_DEICE</td>
<td>13</td>
<td>Check cable/sensor</td>
</tr>
</tbody>
</table>

The following Errors are warning messages, and not user configurable.

**Error 20** - Output Non-Zero. This is a safety function to prevent the controller from accidentally sending an unexpected output when the controller is turned on, or when the user leaves programming mode and enters normal operation mode. The outputs will be kept at zero until the error condition is removed. To recover, set the application rates to zero or exit Blast mode.

**Error 21** - Unload Not Allowed. An attempt was made to enter Unload mode while the truck was moving, which is not allowed. The Unload command will be ignored in this case.

**Error 22** - BB3 System Error. This is an unrecoverable error in the RC controller. Try rebooting the controller to see if it goes away, otherwise report the failure to Bosch Rexroth. This error can also occur if an attempt is made to run a joystick without having an RCE controller present.
**Error 23** - This is a communication failure between the RC controller and the display. It will show up in the logging history in the RC controller after the display is re-connected.

**Error 24** - RCE communication failure. This is a communication failure between the RC controller and the RCE controller in a system with a joystick. It will automatically shut down the joysticks. The status of this communication can also be monitored using the display item called DIG which is available by double-tapping on the gear icon while in normal operation mode. The item called DIG at the bottom right corner of the display should normally be zero. It will be E0 if this error occurs.

**Error 25** - Joystick 1 communication failure. This will shut down the joystick outputs, and will show up as a 40 in the live DIG display item.

**Error 26** - Joystick 2 communication failure. This will shut down the joystick outputs, and will show up as a 80 in the live DIG display item.

**Error 27** - No Chute Sensor. Chute sensor failure, most likely caused by cable break. This will force the controller to stop.

**Error 29** - No Ground Speed Simulation. This is just an information message to indicate that ground speed simulation mode has been stopped.

**Error 30** - Under-Application: Spinner. The spinner cannot meet the desired RPM setpoint. This should not happen in manual mode, but could happen if the spinner is in PPS mode and the ground speed is high.

**Error 31** - Under-Application: Conveyor. The conveyor cannot meet the desired RPM setpoint. Caused by too high application rate or too high ground speed or incorrect calibration.

**Error 32** - Under-Application: Pre-Wet. The pre-wet pump cannot meet the desired flow setpoint. Caused by too high application rate or too high ground speed or incorrect calibration.

**Error 33** - Under-Application: Anti-Ice. The anti-ice pump cannot meet the desired flow setpoint. Caused by too high application rate or too high ground speed or incorrect calibration.

**Error 34** - Over-Application: Conveyor. The solid application rate is above setpoint. Most likely caused by a minimum null value for conveyor output that is too high, so the conveyor never stops.

**Error 35** - Over-Application: Pre-Wet. The pre-wet application rate is above setpoint. Most likely caused by a minimum null value for the pre-wet pump output that is too high, so the pump never stops.

**Error 36** - Over-Application: Anti-Ice. The anti-ice application rate is above setpoint. Most likely caused by a minimum null value for the anti-ice pump output that is too high, so the pump never stops.

**Error 37** - Calibration: Ground-Speed Pulses Too Low. Calculated pulses per km is too low during calibration. Possibly caused by no sensor feedback, or try recalibrating the ground speed sensor.

**Error 38** - Spinner Maximum RPM Too Low. During auto nulling, the calculated maximum RPM was too low, most likely caused by no sensor feedback.
Error 39 - Conveyor Maximum RPM Too Low. During auto nulling, the calculated maximum RPM was too low, most likely caused by no sensor feedback.

Error 40 - Pre-Wet Maximum Hz Too Low. During auto nulling, the calculated maximum Hz was too low, most likely caused by no sensor feedback.

Error 41 - Anti-Ice Maximum Hz Too Low. During auto nulling, the calculated maximum Hz was too low, most likely caused by no sensor feedback.

Error 42 - Wrong Spinner Control Mode. An attempt was made to perform auto nulling of a spinner while it was in manual.

Error 43 - Wrong Conveyor Control Mode. Not Used.

Error 44 - Wrong Pre-Wet Control Mode. An attempt was made to perform auto nulling, or volume calibration, of a pre-wet pump while it was in manual.

Error 45 - Wrong Anti-Ice Control Mode. An attempt was made to perform auto nulling, or volume calibration, of an anti-ice pump while it was in manual. This error could also be caused by an I/O conflict between a cross conveyor mode and the anti-ice pump output, in which case the anti-ice pump will be disabled.

Error 46 - Wrong Cross-Conveyor Mode. An attempt was made to go into Reverse while this output was being used by a cross-conveyor mode. The Reverse command will be ignored in this case. Could also be caused by attempting to use gm/sq.m. mode while there was an I/O conflict with a Cross-Conveyor CA mode, in this case gm/sq.m. mode will not be allowed. Could also be caused by attempting to use closed-loop gate control while in Cross-Conveyor US mode or Liquid-Plus mode, in which case the gate control will be forced into gate readback mode.

Error 47 - Wt. per Revolution Too Low. During conveyor weight calibration, the calculated weight per revolution was too low, most likely caused by typing in zero for the weight.

Error 48 - Wt. per Revolution Too High. During conveyor weight calibration, the calculated weight per revolution was too high, most likely caused by no conveyor sensor feedback.

Error 49 - Pre-Wet Pulses per Gallon Too Low. During calibration of pre-wet volume output, the pulses/gal was too low, most likely caused by no flow sensor feedback.

Error 50 - Pre-Wet Pulses per Gallon Too Hi. During calibration of pre-wet volume output, the pulses/gal was too high, most likely caused by typing in zero for the volume.

Error 51 - Anti-Ice Pulses per Gallon Too Low. During calibration of anti-ice volume output, the pulses/gal was too low, most likely caused by no flow sensor feedback.

Error 52 - Anti-Ice Pulses per Gallon Too Hi. During calibration of anti-ice volume output, the pulses/gal was too high, most likely caused by typing in zero for the volume.

Error 53 - Spinner mm at zero RPM too Low. During calibration of the relationship between spinner RPM and spinner spread width, a value of 0 mm at zero RPM was used.

Error 54 - Spinner mm per RPM too Low. During calibration of the relationship between spinner RPM and spinner spread width, a value of maximum spread width was used that was less than the mm at zero RPM.

Error 55 - Gate Movement Too Low. During calibration of gate maximum and minimum position, the difference between minimum and maximum height was less than 1 inch.
Error 56 - Gate Zero in Manual. While in manual gate control mode, the operating gate position was specified to be zero.

Error 57 - Gate at Calibration Too Low. While calibrating the weight per revolution for a specific material, the gate position at calibration was specified to be zero.

Error 58 - Spinner PPR Too Low. A value of zero was used for spinner pulses per revolution.

Error 59 - Conveyor PPR Too Low. A value of zero was used for conveyor pulses per revolution.

Error 60 - Spinner Output Range Too Low. The difference between maximum and minimum spinner nulling values was less than 5%.

Error 61 - Conveyor Output Range Too Low. The difference between maximum and minimum conveyor nulling values was less than 5%.

Error 62 - Cross Conveyor 1 Output Range Too Low. The difference between maximum and minimum cross conveyor nulling values was less than 5%.

Error 63 - Cross Conveyor 2 Output Range Too Low. The difference between maximum and minimum cross conveyor nulling values was less than 5%.

Error 64 - Pre-Wet Output Range Too Low. The difference between maximum and minimum pre-wet nulling values was less than 5%.

Error 65 - Anti-Ice Output Range Too Low. The difference between maximum and minimum anti-ice nulling values was less than 5%.

Error 66 - Joystick 1 Output Range Too Low. The difference between maximum and minimum joystick nulling values for one of the six outputs was less than 5%.

Error 67 - Joystick 2 Output Range Too Low. The difference between maximum and minimum joystick nulling values for one of the six outputs was less than 5%.

Error 68 - Theoretical Maximum Conveyor RPM Too High. Based on the specified application rate setpoints, and the maximum ground speed, the maximum theoretical conveyor RPM required has been calculated to be more than twice the actual conveyor capacity, which will lead to serious under-application problems. The actual controller RPM setpoint will be clamped at this value to prevent the controller from becoming unstable, and the conveyor should be re-calibrated to determine the source of the problem.

Error 69 - Theoretical Maximum Pre-Wet Hz Too High. Based on the specified application rate setpoints, and the maximum ground speed, the maximum theoretical pre-wet pump flow required has been calculated to be more than twice the actual pump capacity, which will lead to serious under-application problems. The actual pump flow setpoint will be clamped at this value to prevent the controller from becoming unstable, and the pre-wet pump should be re-calibrated to determine the source of the problem.

Error 70 - Theoretical Maximum Anti-Ice Hz Too High. Based on the specified application rate setpoints, and the maximum ground speed, the maximum theoretical anti-ice pump flow required has been calculated to be more than twice the actual pump capacity, which will lead to serious under-application problems. The actual pump flow setpoint will be clamped at this value to prevent the controller from becoming unstable, and the anti-ice pump should be re-calibrated to determine the source of the problem.
16 Joystick Calibration

16.1 Solenoid Nulling
1. Start vehicle and achieve full pump flow.
2. Tap on Joystick symbol.
3. Press “CALIBRATION” button and press a mode button on the joystick to select a desired mode to adjust.
4. Move the joystick slightly until the hydraulic actuator moves slowly – press “Min” while the stick is deflected.
5. Move the joystick until the actuator moves at a safe maximum speed – press “Max”.
6. Repeat this for all axis’, directions and modes.

16.2 Emergency (Panic Button) – If Equipped
1. Select the desired mode on the joystick and pull the joystick in the direction that the emergency button should activate.
2. Press the round “EMG” button while the stick is deflected.

Any mode or direction can be assigned to Panic Button. In operation mode when the Panic button is pushed in conjunction with the Deadman trigger, the selected function(s) will activate simultaneously.
This joystick calibration is only required when a multifunction CANbus Joystick Console is included with the system.

All the mode names and special functions will be configured by the factory. Only solenoid nulling may be required.

17 Joystick Min/Max/Emg Set-up

(OI version 13 or newer) Aside from the standard calibration described in the previous section, values can be entered directly using the following method:

1. Tap on Joystick symbol.

2. Select the joystick direction for which you want to enter values.
3. Press ‘Min’ on the top right corner to enter a percentage value.
4. Follow this procedure for ‘Max’ and ‘Emg’
5. Exit calibration screen to save new values.
18 Advanced Joystick Set-up

18.1 Power Float

If equipped, the Power Float mode can also be edited.

**Resetting** - Re-engages float when the joystick is returned to neutral.

**Non-resetting** - The button must be pushed to re-enable the float after the stick is deflected.

**Check Marks:**
- **PFloat2** – Option to turn ON/OFF 2nd Power float
- **DumpLmt On** – Option to turn ON/OFF Dump Limit Function
- **Msg Flash** – Option to flash dump limit message
- **DumpLmt Msg Rst** – Only show message on rising edge (OI Version 5 and later)
- **Msg Off** – Option to disable dump limit message

18.2 Function Labels

All the joystick button names and function will be preset by the factory. The joystick button names can be edited via the pull-down selection menus.

B1 is at the bottom left location and the buttons count up clockwise.

![Joystick Diagram]

Note: Editing the names of the functions does not re-allocate the outputs on the valve cable. They are fixed and defined in the valve layout for the specific system.

19 Warning
This glass LCD touch screen display has been extensively tested and validated against its intended use. This glass could crack and break if the display is dropped on to a hard surface or receives substantial impact. If the glass chips or cracks, discontinue use and contact Bosch Rexroth Canada to have it replaced - do not touch or attempt to remove the broken glass. Any misuse/abuse causing damage, whether intended or not, will become the sole responsibility of the owner/buyer which will render the warranty of this product, void.

Notes: