

This addendum is intended to be used with the FaStack Operator Manual.

This addendum gives additional information about new features in the software update and pressure relief valve.



Be aware of all the safety matters outlined in the Operator Manual. Read the Operator Manual and understand how these additional software features will affect the operation and safety while using.

Simultaneous Picking

This new feature allows the user to lower the bale loading arm to pick a bale while the front table is raising or lowering.

Note: Both functions can slow down when operating at the same time. The speed is variable on tractor flow.

If the Bale Loading Auto button is selected, the bale loading arm will load the bale and move to the ready position.

When the front table comes back to the frame and rotated into the home position (FS1200 only), then loading arm will automatically load the bale in the loading arm onto the front table.

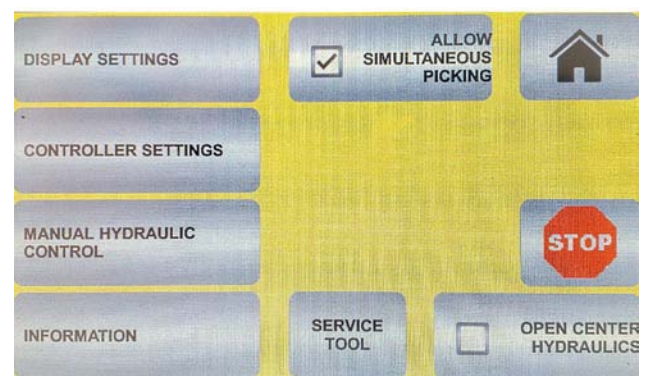
To enable Simultaneous Picking with automatic arm and table movement:

- Select LOADING ARM AUTO.
- Select FRONT TABLE AUTO.
- On the FaStack 1200 - Select FRONT TABLE ROTATE - if desired.
- Press the MENU button.
- Press ALLOW SIMULTANEOUS PICKING.



Select Arm, Table and Rotate Options
(If Desired)

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Press Allow Simultaneous Picking

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Loading Arm Stutter Step

The bale lifting arm stutter step can be useful for sticky bales, heavy bales and wet conditions that prevent a bale from easily loading onto the front table.

In stutter mode the loading arm places the bale onto the front table to just before the kicker on the arm activates. The loading arm drops down between 6 - 8 inches and then continues up toward the table to give the bale an extra push onto the front table.

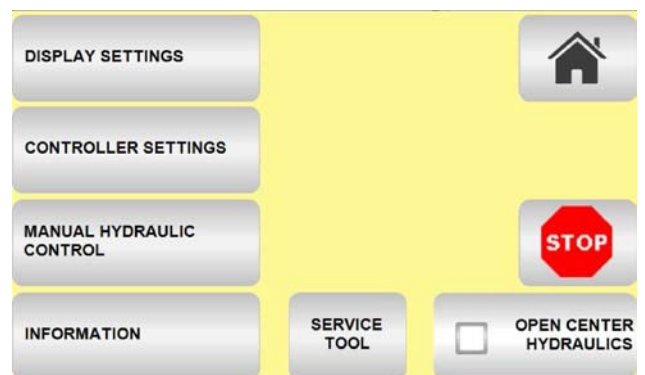
To Activate the Stutter Step :

- Press Loading Arm Auto until the check mark is removed (placing the arm into Manual Mode).
- Select  from the Home Screen.
- Select Controller Settings
- Select Adjust Set Points



Put Loading Arm into Manual Mode
Select Menu Button

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Select Controller Settings

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Select Adjust Set Points

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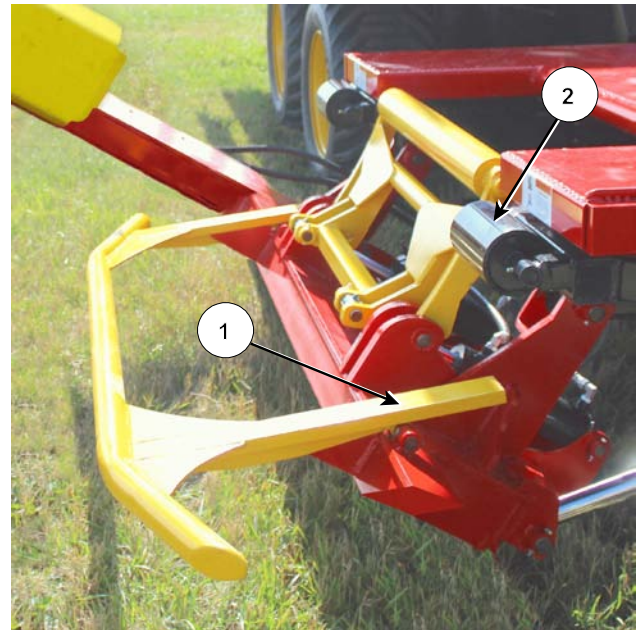
- Use the joystick to lift the loading arm but stop the arm just before the bale kicker arms (1) contact the rollers (2) on the frame.
- On the Display, change the number in the white box for Arm Position 2 to the number shown in the grey box for Arm Position 2.
- Change the white box number of Arm Position 3 to be the calculated number of Arm Position 2 (just entered) minus 150 mV.

Example:

Arm Position 2 = 2642 mV

Arm Position 3 = 2642 mV - 150 mV = 2492 mV

Note: If an auto calibration is done after the stutter step is activated, the stutter step values will be over-written and will need to be re-entered by using the process described above.



Lift Arm for the Stutter Step Setting

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ARM POSITION 1	2206 mV	0 mV	
ARM POSITION 2	2642 mV	2642 mV	
ARM POSITION 3	2492 mV	0 mV	
ARM POSITION 4	2700 mV	0 mV	
ARM POSITION 5	3005 mV	0 mV	
ARM POSITION 6	2600 mV	0 mV	
ARM POSITION 7	2330 mV	0 mV	

Setting the Stutter Step

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To Deactivate the Stutter Step :

- Use the joystick to lift the arm but stop it just before the bale kicker arms (1) contact the rollers (2) on the frame.
- Change the number in the white box for Arm Position 2 to the number shown in the grey box for Arm Position 2.
- Change the number of Arm Position 3 to be the same as the number of Arm Position 2.

ARM POSITION 1	2206 mV	0 mV	
ARM POSITION 2	2642 mV	2642 mV	
ARM POSITION 3	2642 mV	0 mV	
ARM POSITION 4	2700 mV	0 mV	
ARM POSITION 5	3005 mV	0 mV	
ARM POSITION 6	2600 mV	0 mV	
ARM POSITION 7	2330 mV	0 mV	

Deactivating the Stutter Step

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Auto Front Table Update

With the final load of bales, the front table will go to the vertical position to push the bales onto the rear table (1).

The front table will then relax and move away from the rear table a small amount to allow the final row of bales to seat (2) onto the rear table.

The front table will then move toward the bales and stay in the raised position (3) for transporting.



Front Table Moves to Seat Bale
In Auto Front Table Mode

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Transport Mode Update

Transport Mode is used to move the loading arm to the raised position.

Transport mode now works with the front table raised or lowered.

The Loading Arm Auto button on the display needs to have a check mark in it.

If the front table is raised when the Transport Mode button is pushed, the front table will remain raised and the loading arm will rise to the transport position.

If the front table is lowered when the Transport Mode button is pushed, the front table will remain lowered and the loading arm will rise to the transport position.

When disabling transport mode, the loading arm will need to be lowered manually by pressing the arm lower button on the joystick.



Transport Mode

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Auto Calibration of the Arm and Table Set Points

This new feature allows for the calibration of the loading arm set points and the front and rear table set points by raising, lowering or rotating and having the software record the set point values. The Auto Calibration then automatically fills in the remaining set points.

This procedure can be done when a sensor or a part of the machine has been replaced or bumped. It can also be done to refresh the settings for continued good operation.

Note: Manual adjusting of each set point is still available if desired.

To do an Auto Calibration:

- Select  from the home screen.

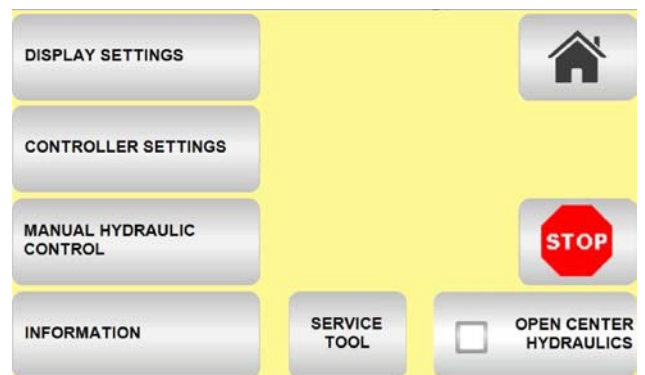
- Select Controller Settings

- Select Adjust Set Points



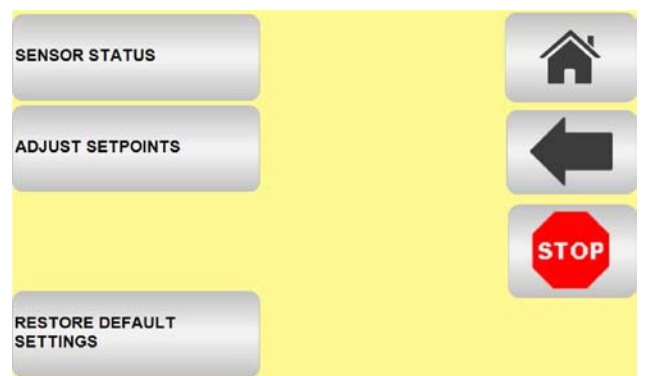
Select Menu

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Select Controller Settings

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Select Adjust Set Points

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- Use  to go the last screen of set points (until the Code Entry button appears).

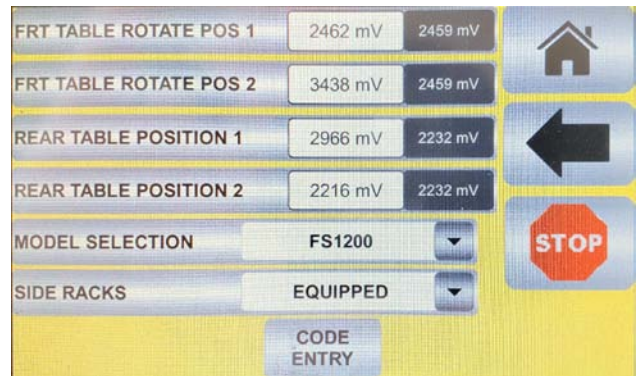


Use Arrow to Go to Last Page

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- Press Code Entry to access the Auto Calibration screen.

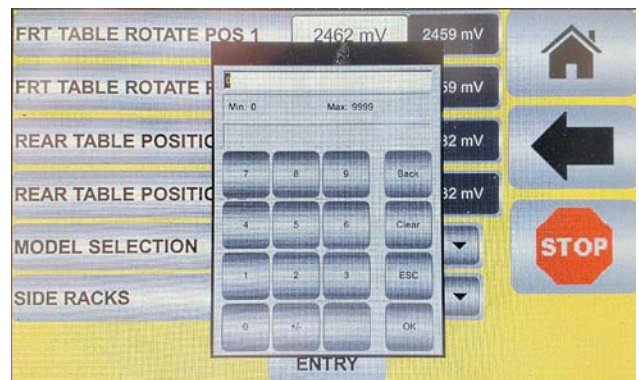
Note: Contact the dealer or phone Highline Customer Service for the code and for assistance.



Settings Page 4 (For FaStack 1200 Shown)

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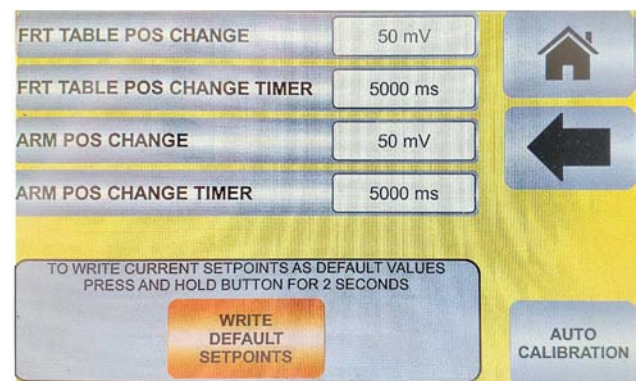
- Use the keypad to enter the code.



Enter The Code

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- Choose Auto Calibration



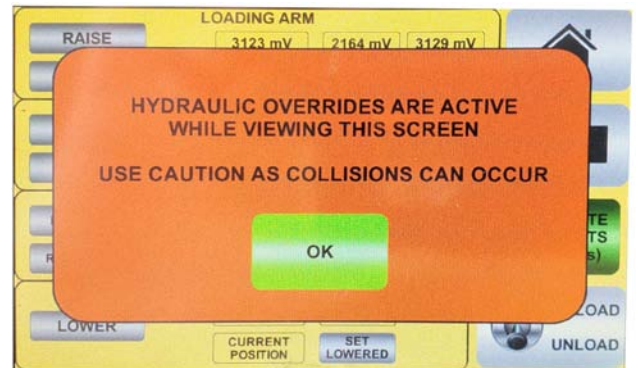
Choose Auto Calibration

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- A warning screen will come up to indicate that the hydraulic overrides and the safety set points are disabled.

Caution must be used to not move parts of the machine that may crash into each other.

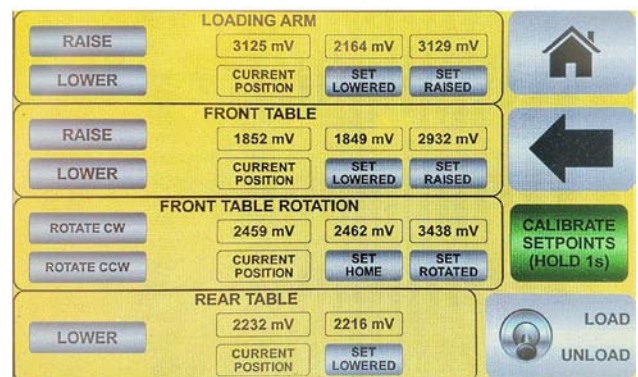
- Press OK to acknowledge an understanding of the need for caution when Auto Calibrating.



Warning - Hydraulic Overrides Active

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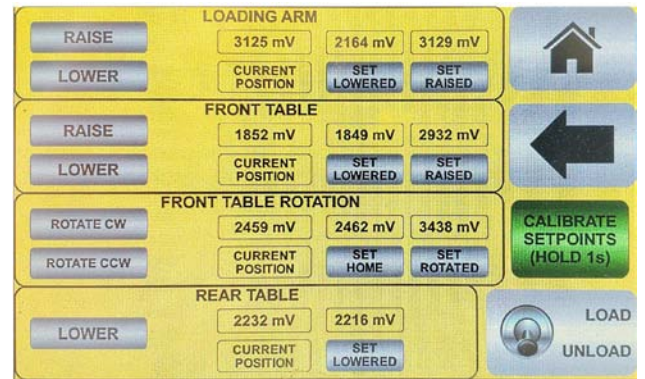
- For Loading Arm Auto Calibration:
 - Press and hold RAISE on the screen to raise the arm to the highest point.
 - The joystick button can be used to raise the arm.
 - When the arm is raised to the highest point, press and hold SET RAISED for 2 seconds.
 - Press and hold LOWER on the screen to lower the arm to the lowest point.
 - The joystick button can be used to lower the arm.
 - When the arm is lowered to the lowest point, press and hold SET LOWERED for 2 seconds.
- For Front Table Auto Calibration:
 - Press and hold RAISE on the screen to raise the front table to the highest point.
 - The joystick button can be used to raise the front table.
 - When the table is raised to the highest point, press and hold SET RAISED for 2 seconds.
 - Press and hold LOWER on the screen to lower the front table to the lowest point.
 - The joystick button can be used to lower the front table.
 - When the table is lowered to the lowest point, press and hold SET LOWERED for 2 seconds.



Auto Calibration Screen

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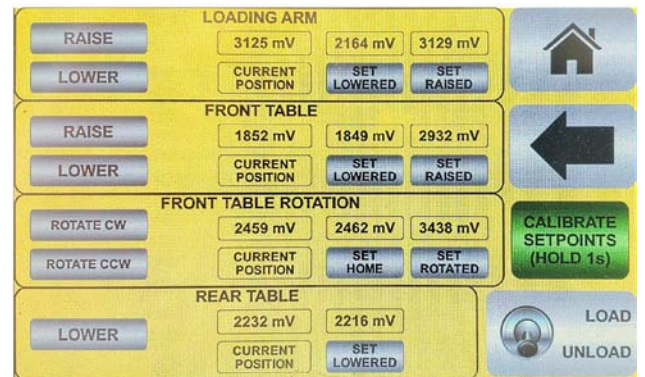
- For Front Table Rotate Auto Calibration (1200 only):
 - Raise the front table 12"-18" to prevent collision with the frame.
 - Fully lower the loading arm.
 - Press and hold ROTATE CW on the screen to rotate the front table toward the rear table.
 - When the front table is fully rotated press and hold SET ROTATED for 2 seconds.
 - Press and hold ROTATE CCW on the screen to rotate the table to the bale loading position (Home).
 - When the front table is fully rotated to the bale loading position press and hold SET HOME for 2 seconds.



Auto Calibration Screen

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- For Rear Table Auto Calibration (1200 Only):
 - Press and hold LOWER to lower the rear table.
 - When the rear table is fully lowered press SET LOWERED on the screen for 2 seconds.
- When all the set points have been auto calibrated, press and hold the CALIBRATE SET POINTS for 1 second.
 - This will enter all the values for:
 - The arm positions (page 1 & 2)
 - The front table positions (page 3)
 - The front table rotate position (page 4) - 1200 only.
 - The rear table position (page 4) - (1200 only).



Press and Hold To Calibrate the Set Points

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Note: Any values that were previously changed will be over-written and will need to be readjusted.

For 1200 Only - Adjusting the Push Off Cylinder Pressure

There is a pressure relief valve (2) and pressure gauge (1) in the push off cylinder hydraulic circuit. These are located behind the hydraulic valve block on the machine.

The initial pressure for the push off cylinders should be set at 1600 psi when pushing against the bales.

If the bales are compressing and/or falling towards the machine during unload, then reduce the pressure relief by 200 psi and try the unload process again. Adjust the pressure relief until satisfied with the results.

If the bales are not sliding off the forks as the tractor is driving away, then increase the pressure by 200 psi and try the unload process again. Adjust the pressure relief until satisfied with the results.

- To change the pressure relief setting,
 - Remove the valve stem cap (2).
 - Turn the set screw to decrease/increase the pressure.
 - Replace the valve cap (2).



Push Off Cylinder Pressure Adjustment

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For 1200 Only - Rear Table Angle Readout

During unloading of the FaStack 1200, once the rear table has been raised to 40 degrees a banner will appear on the top of the display that will continue to indicate the angle the rear table is raised.

This angle readout will help for more precise unloading of the bales from the rear table.



FaStack 1200 Rear Table Angle Banner

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