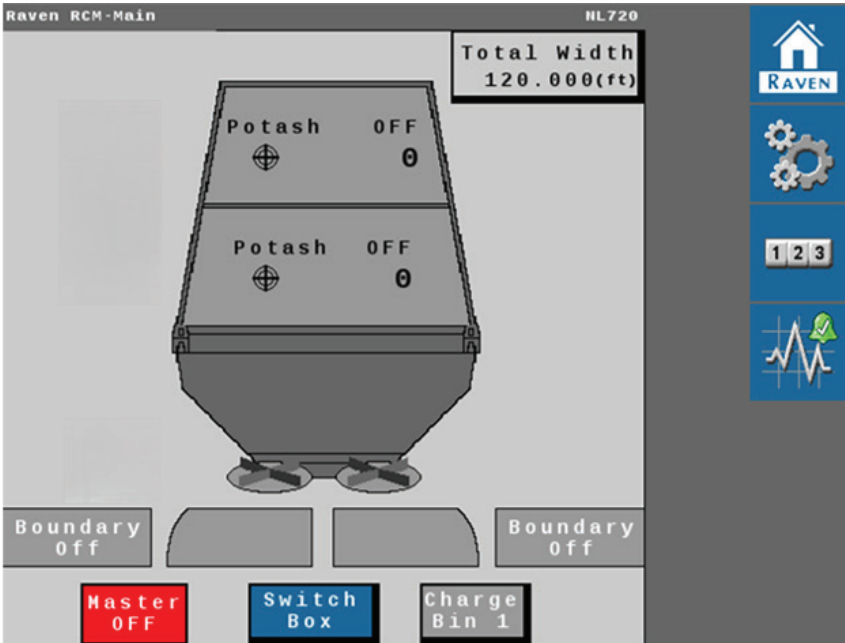




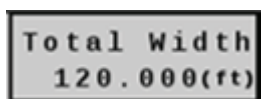
NL7 Series

OPERATORS QUICK GUIDE

NL7 Main UI



* Product images are for reference only and may differ slightly across models in the NL7 series.



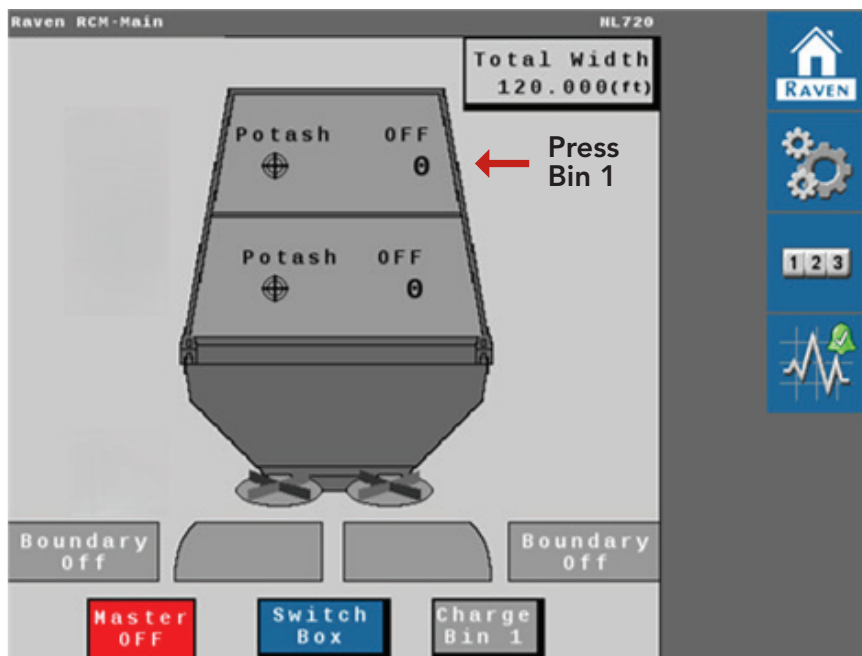
	FUNCTION/OPERATION
Product Bin Status	Status: Grey - Product Off Grey with Green Outline - Product on, but no sections on. Green - Product applying Red - Error with product
Target Rate	Displays the target application
Actual Rate	Displays the actual application rate
Total Width	Total width of the spread pattern as configured during the initial equipment calibration
Spinner Status	Grey - Spinners off Green - Spinners on Red - Spinner error Purple - Controlled reduce speed
Left & Right Boundary	Enable left/right boundary option to slow down the spinner rpm for the respective spinner and avoid spreading product outside of the field area
Master Switch Indicator	Shows status of the master switch Green - on Red – off Orange – cycle the master switch
Bin Charge	Bin charge indicator – press and hold function
Section Status	Displays the status for the left and right sections Grey – Not applying Green – Applying Red – Error with section Purple – Pattern control active

Bin Charge

1. Turn on spinners (armrest)



2. Press Bin 1



Bin Charge

3. Input

- Target Rate
- Density
- Product Type

Setup Rates

Product 1 Granular

Target Rate
(lb/ac)

900

←

Product Density
(lb/cubic feet)

68.0

←

?

Product Type

Potash

←

Adjust Output

0.0

-

+

Tank/Bin Cleanout

Bin Chaining

✓

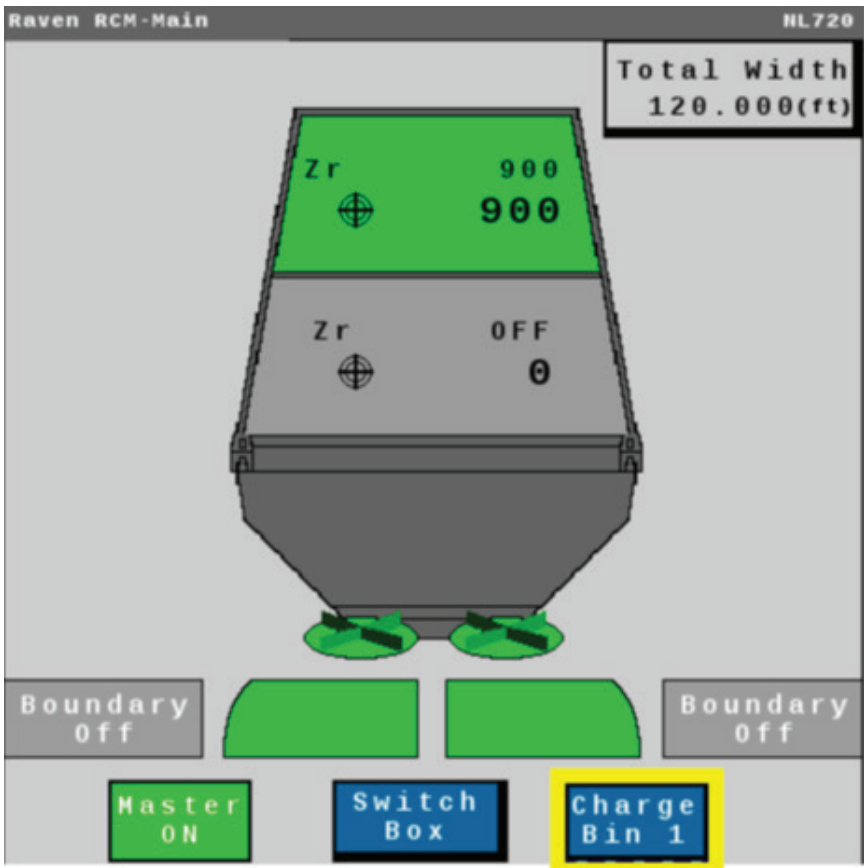
↑
Press

Bin Charge

4. Turn on Master Switch (joystick)

Press/Hold Bin Charge

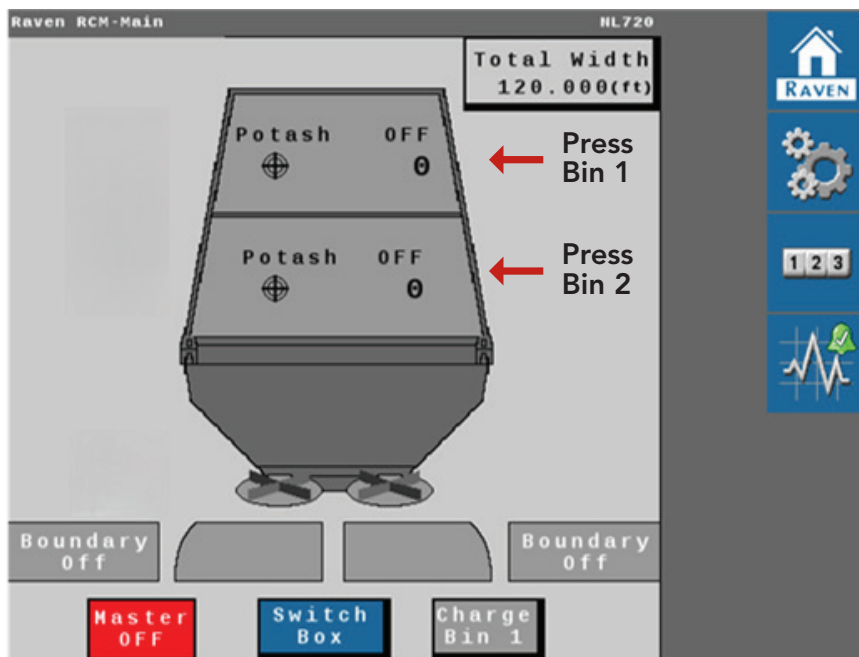
Note: Release bin charge button to stop the process



↑
Press/Hold
Bin Charge

Tank Bin Cleanout

1. Press Either Bin



Tank Bin Cleanout

2. Press Tank/Bin Cleanout

Press →

Setup Rates

Product 1 Granular

Target Rate (lb/ac)

Product Density (lb/cubic feet) ?

Product Type

Adjust Output - +

☒

3. Read and Accept Warning

WARNING

Running this test will cause implement movement. Product may be ejected from the implement.

To avoid injury ensure that no bystanders are in the vicinity and keep clear from moving machinery.

If necessary use the master switch to stop operation.

Tank Bin Cleanout

4. Select Relevant Bin(s)

You may clean out multiple bins at the same time.

Bin/Tank Cleanout

1. Remove back covers
2. Select bins/tanks to be cleaned out.
3. Turn Master Switch ON.
4. Press Start button.
5. Toggle tanks on or off using the checkboxes.

Note: Turn the Master Switch off to stop product application.

Product 1 ☒

Product 2 ☐

Start

Master OFF





5. Turn on Master Switch (joystick)

- Press Start

Bin/Tank Cleanout

1. Remove back covers
2. Select bins/tanks to be cleaned out.
3. Turn Master Switch ON.
4. Press Start button.
5. Toggle tanks on or off using the checkboxes.

Note: Turn the Master Switch off to stop product application.

Product 1 ☒

Product 2 ☐

Press → Start

Master OFF





Tank Bin Cleanout

6. System Running

Note: when running man appears, selected bin/s are running

Bin/Tank Cleanout

1. Remove back covers
2. Select bins/tanks to be cleaned out.
3. Turn Master Switch ON.
4. Press Start button.
5. Toggle tanks on or off using the checkboxes.

Note: Turn the Master Switch off to stop product application.

Product 1 ☒ Product 2 ☐

7. Turn Off Master Switch

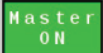
- Press Accept

Bin/Tank Cleanout

1. Remove back covers
2. Select bins/tanks to be cleaned out.
3. Turn Master Switch ON.
4. Press Start button.
5. Toggle tanks on or off using the checkboxes.

Note: Turn the Master Switch off to stop product application.

Product 1 ☒ Product 2 ☐

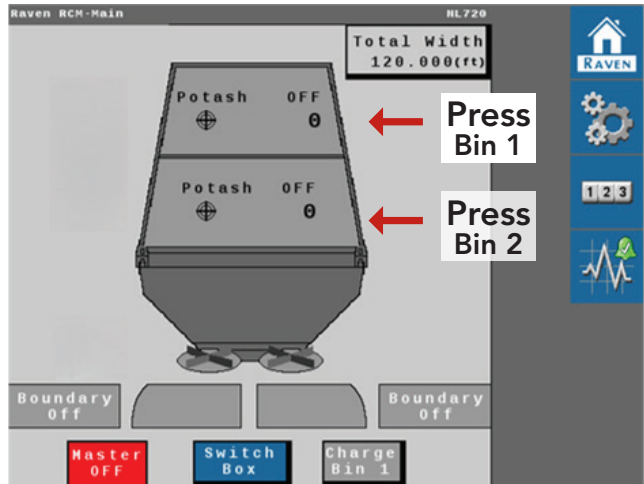
 

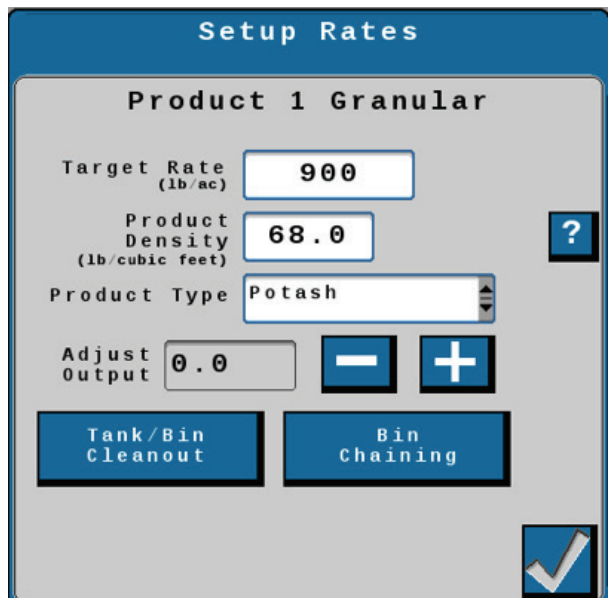
Press →

Bin Chaining

1. Press Bin 1 or 2



2. Press Bin Chaining



Bin Chaining

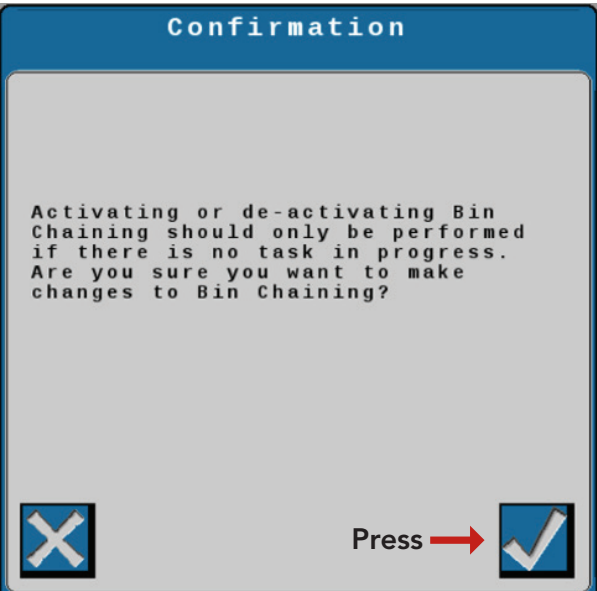
3. Select Bin Chaining Order/Mode

- 2 to 1
- 1 to 2



The 'Setup Bin Chaining' screen has a blue header with the title 'Setup Bin Chaining'. It features two dropdown menus: 'Bin Chaining Order' set to '2 to 1' and 'Bin Chaining Mode' set to 'Off'. A help icon (question mark) is to the right of the first dropdown. A list box below the mode dropdown shows 'Auto', 'Manual', and 'Off', with 'Off' selected. A checkmark icon is in the bottom right corner.

4. Press Accept



The 'Confirmation' screen has a blue header with the title 'Confirmation'. The main text reads: 'Activating or de-activating Bin Chaining should only be performed if there is no task in progress. Are you sure you want to make changes to Bin Chaining?'. At the bottom left is a cancel icon (X), and at the bottom right is an 'Accept' button with the text 'Press' and a red arrow pointing to a checkmark icon.

Bin Chaining

5. Press Accept

Setup Bin Chaining

Bin Chaining Order

2 to 1

?

Bin Chaining Mode

Manual

6. Press Accept

Setup Rates

Product 1 Granular

Target Rate (lb/ac)

Product Density (lb/cubic feet)

68.0

?

Product Type

Potash

Adjust Output

0.0

-

+

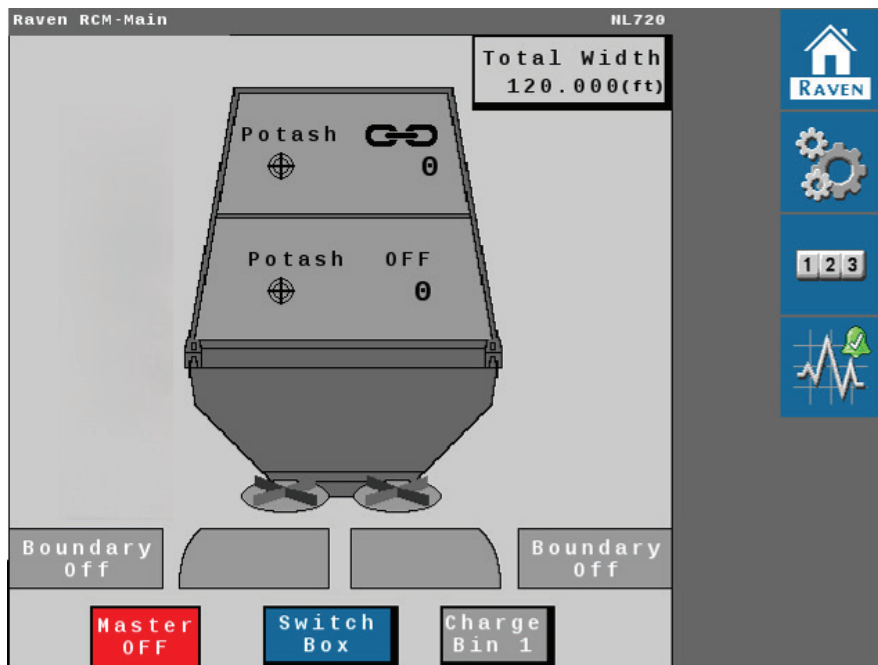
Tank/Bin Cleanout

Bin Chaining

Press →

Bin Chaining

7. Begin Field Application



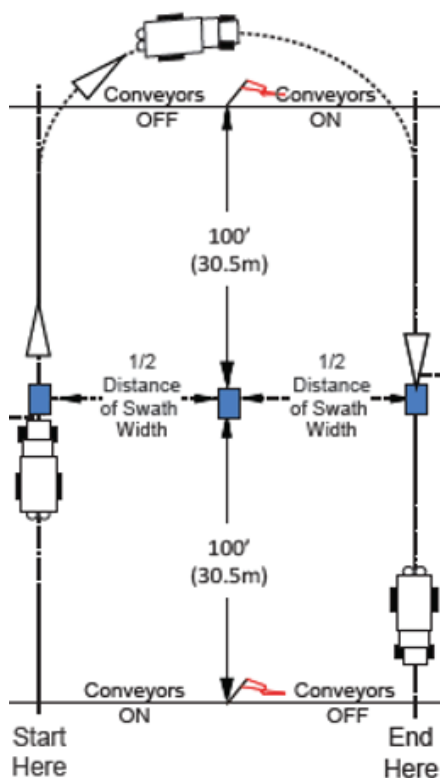
Spread Pattern Testing

New Leader recommends conducting a spread pattern test after any repairs or maintenance is done to the spreader, at the beginning of each season for all products, and anytime there is a noticeable change to the product quality.

New Rope Layout

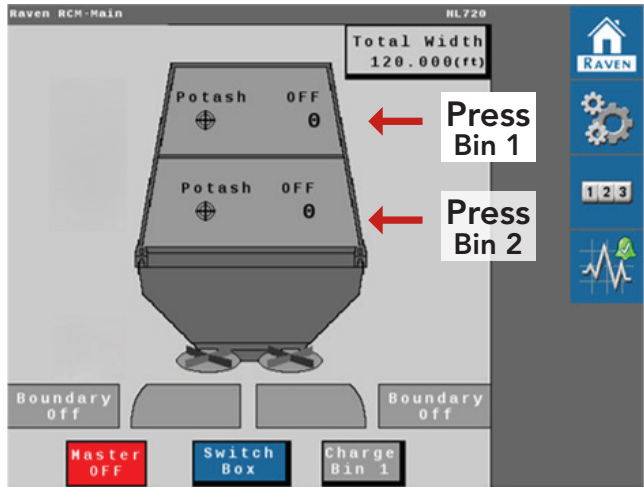


DESCRIPTION	QTY
Plastic Storage Box	1
Blue Plastic Collection Trays	3
White Divider Screens	3
Test Tube Rack Assembly	1
Test Tubes	3
Scale - Density	1
Plastic Stakes	2
Funnel	1
Rope	1
Flags	2

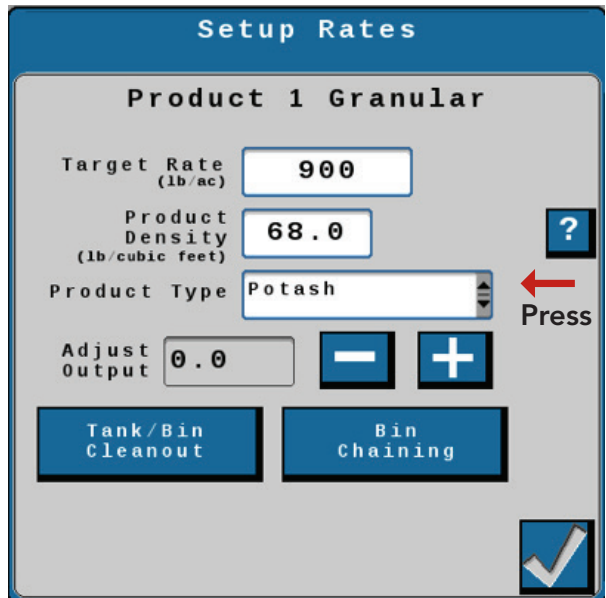


Spread Pattern Testing

1. Press Bin 1 or 2



2. Press Product Type



Spread Pattern Testing

3. Press New



None

Urea

Potash

MAP

Seed

Zr

Fall PK

New

4. Enter the Following Information/Press Next

- Product Name
- Baseline Product
- Product that most represents what you're spreading
- Product Density



Setup New Product Type

New Product Name

Fall blend

Baseline Product

Potash

Product Density (lb/cubic feet) 67.0

Manage Custom Names

Spread Pattern Testing

5. Accept



**WARNING**

Running this test will cause implement movement. Product may be ejected from the implement.

To avoid injury ensure that no bystanders are in the vicinity and keep clear from moving machinery.

If necessary use the master switch to stop operation.

6. Activate Spinners and Conveyor

Setup New Product Type

Funnel Spread Pattern Test

Enable Spinners and turn Master Switch ON to begin test.

Press 

Joystick 

0 . 0 
(mph)

Note: Turn the master switch off to stop application.

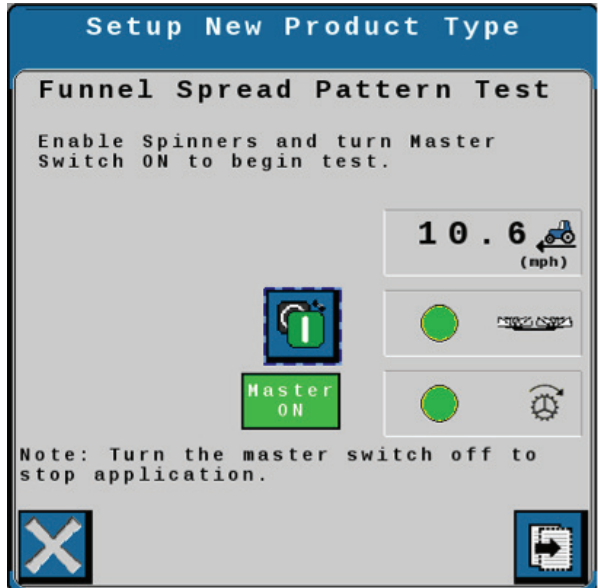


Spread Pattern Testing

7. Drive Through Pans 10-15mph

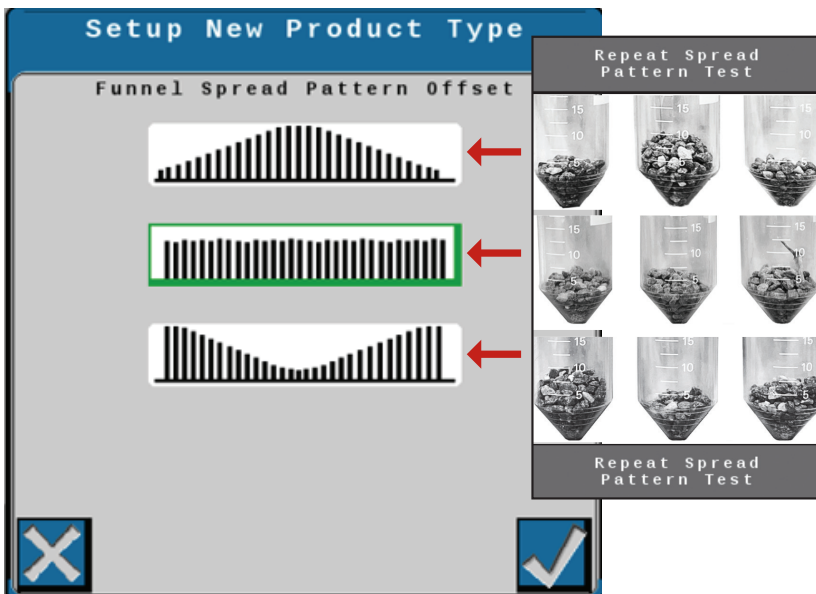
Note: Spinner and Conveyor

MUST be green before driving through the pans.



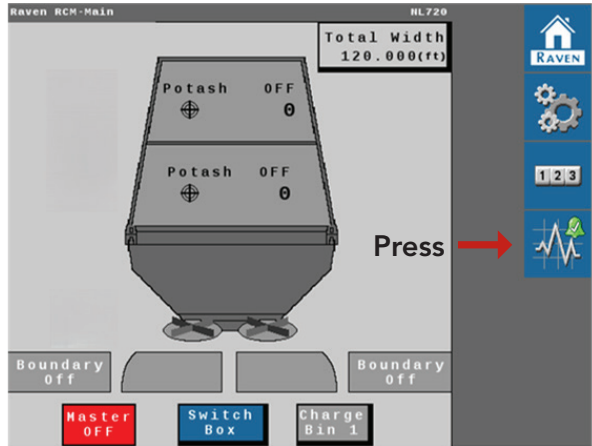
8. Pickup Pans and Choose Correct Picture

Note: Press accept when an acceptable pattern is achieved



NL7 Series Spreader Check

1. Press Diagnostics

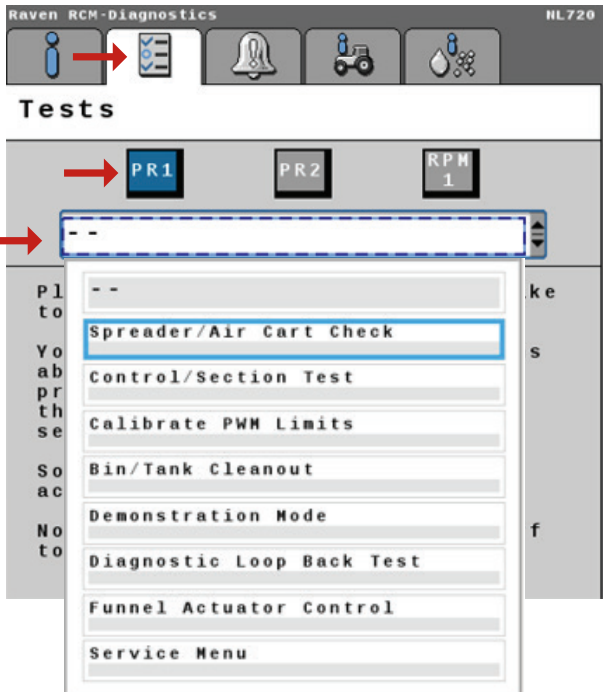


2. Press Test Tab

- Press bin (1 or 2)

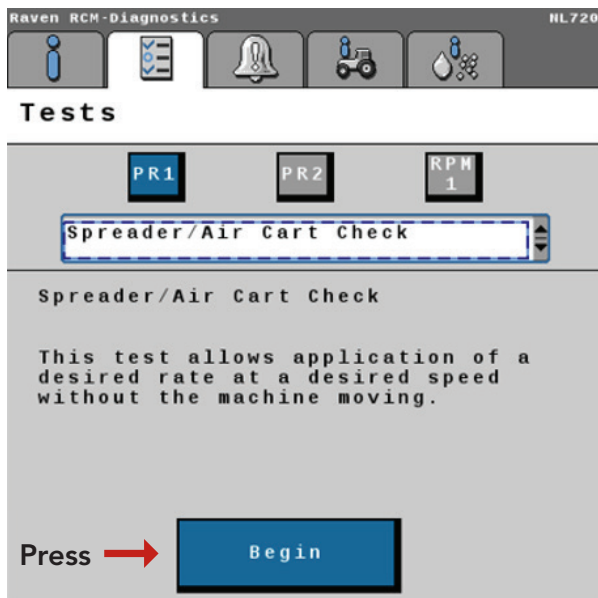
Note: (PR1=bin1)
(PR2=bin2)

- Press drop down
- Select Spreader/Air Cart Check

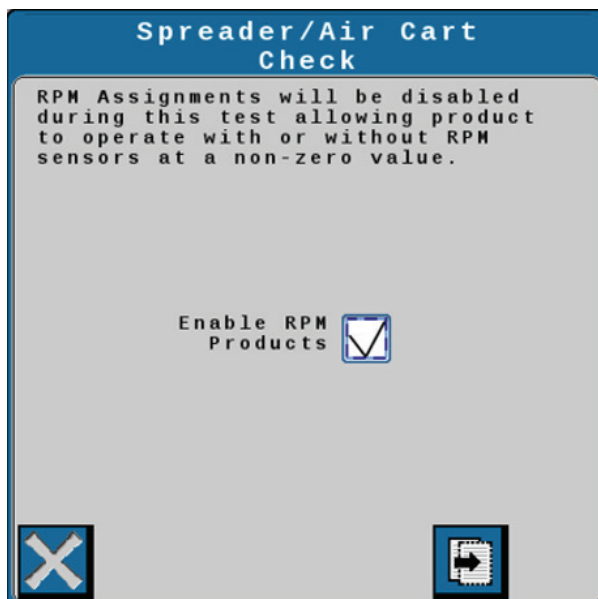


NL7 Series Spreader Check

3. Press Begin

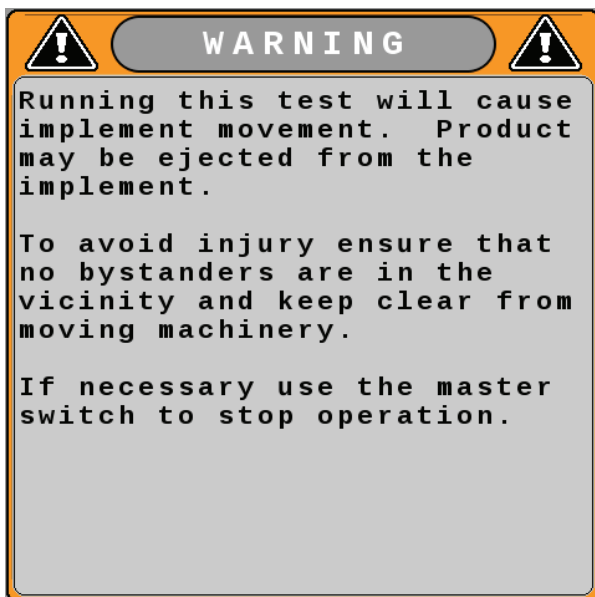


4. Enable RPM Products



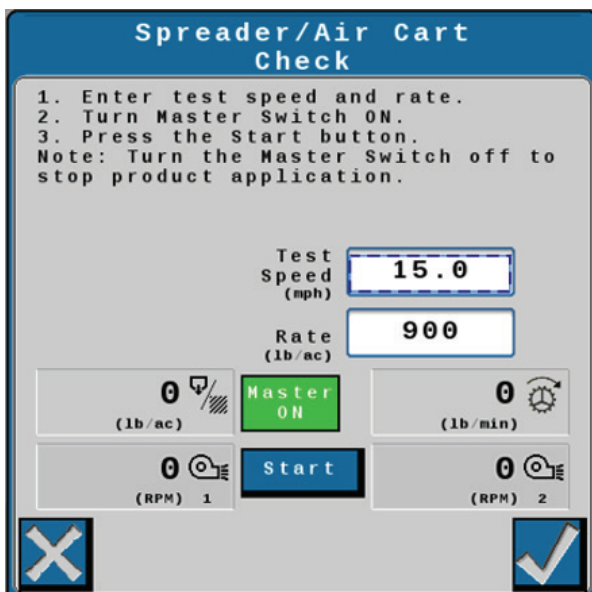
NL7 Series Spreader Check

5. Read and Acknowledge Warning



6. Input

- Test Speed
- Rate (lb/acre)



NL7 Series Spreader Check

7. Activate Unit

- Turn Master Apply Switch on (Joystick)

Note: Conveyor and Spinner circuits should now be running.

Spreader/Air Cart Check

1. Enter test speed and rate.
2. Turn Master Switch ON.
3. Press the Start button.
Note: Turn the Master Switch off to stop product application.

Test Speed (mph)	15.0	
Rate (lb/ac)	900	
900 (lb/ac)	Master ON	3273 (lb/min)
900 (RPM) 1		900 (RPM) 2

NL7 Series Spreader Check

Daily Inspections/Cleaning

- Belt Tension
- Waterfall Dividers
- Baseplate
- Chutes and Chute Bushing
- Spinner Overlays

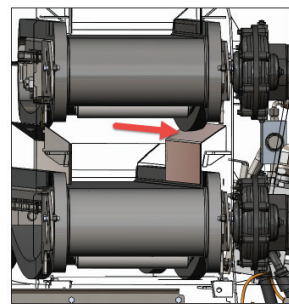
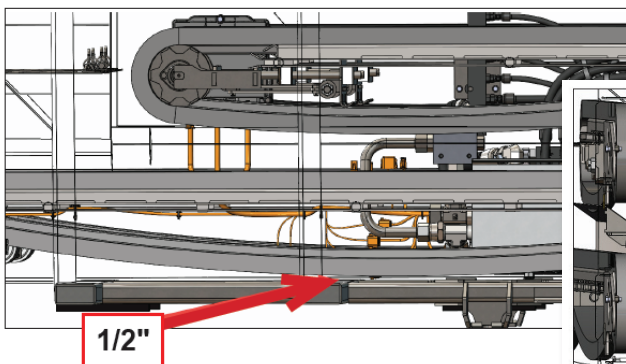
MAINTENANCE

Cleaning and maintaining the NL7 is extremely important. Excessive product buildup can cause components to wear prematurely, reducing the overall component life expectancy. Maintaining these components ensures adequate movement and functionality. Failing to maintain equipment properly could result in rejected warranty claims should a failure occur due to negligence.

BELT TENSION

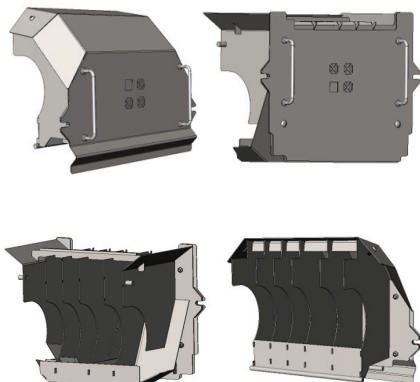
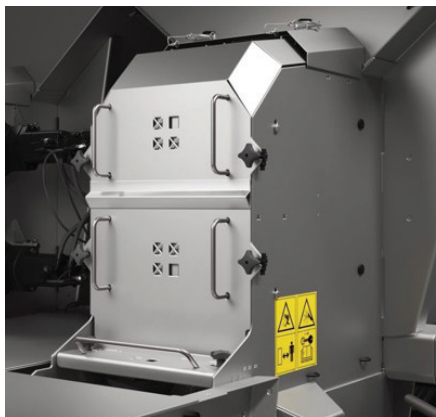
Check at the beginning of each season and periodically throughout the spreading season.

- **Bin 1 Conveyor Belts:** The lowest part of the lower conveyor belts should rest $1/2''$ above the bottom of the sills.
- **Bin 2 Conveyor Belts:** The lowest part of upper belt should touch the middle of the angled surface of the chain shield.



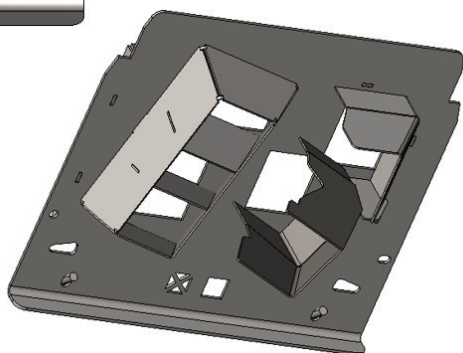
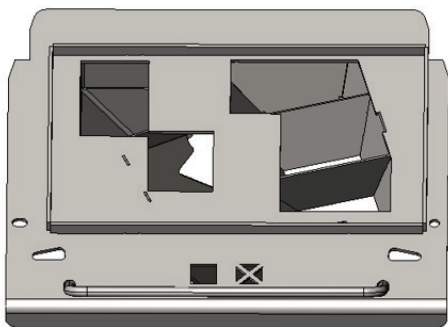
WATERFALL DIVIDERS

Inspect and clean daily



BASEPLATES

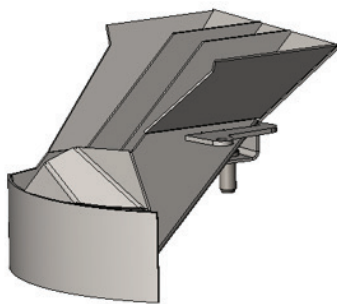
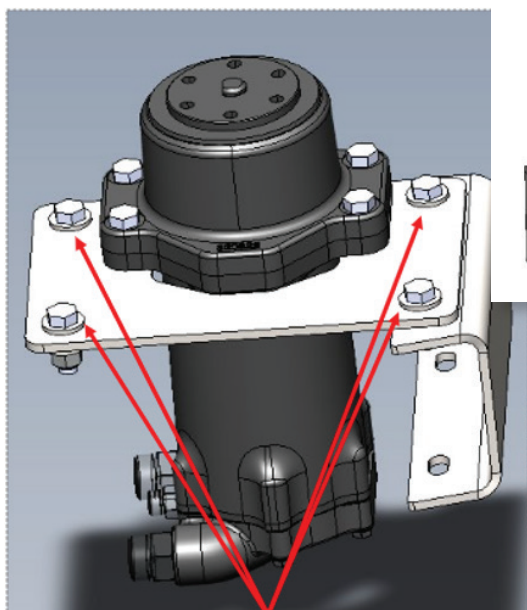
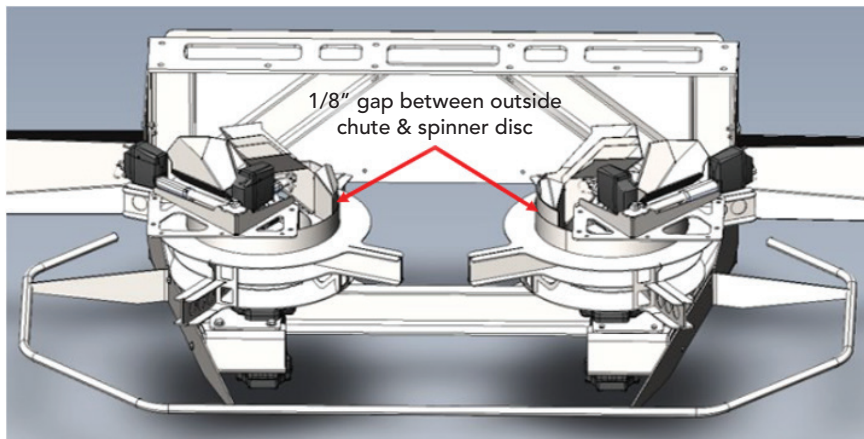
Inspect and clean daily



Inspections/ Cleaning

CHUTES

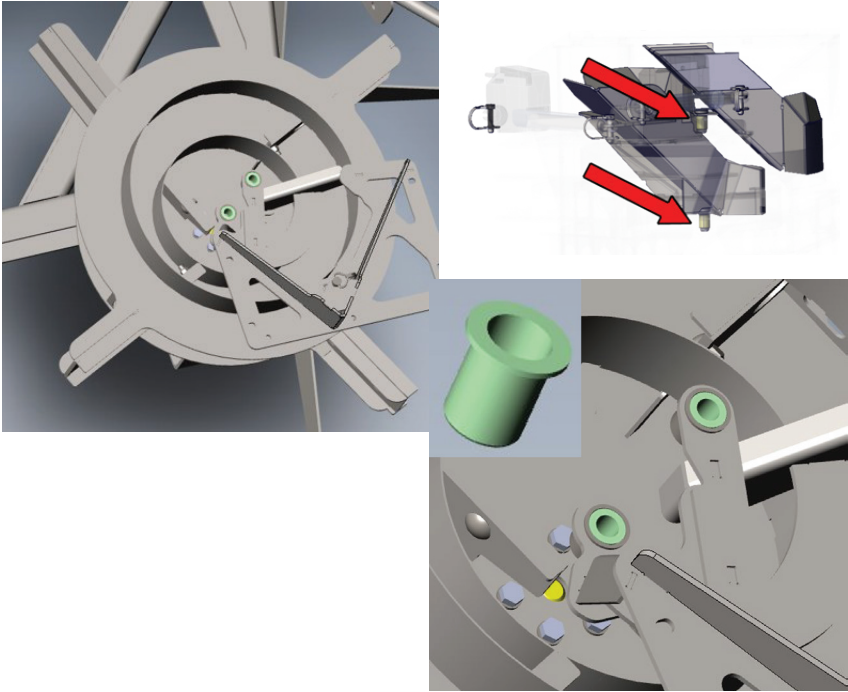
Inspect and clean daily. Check clearance at the beginning of each season and periodically throughout the spreading season.



Loosen to Adjust

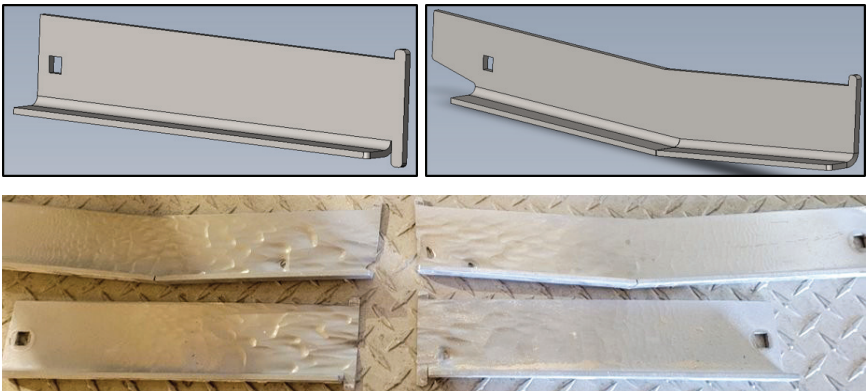
CHUTE BUSHINGS

Check seasonally and replace as needed.



SPINNER OVERLAYS

Inspect and clean daily. Replace any worn overlays when a hole is present.



Important: Overlays do not need to be replaced until a hole starts to develop in the material and only those overlays that do develop a hole need to be replaced.



NEW LEADER

Manufactured by

NEW LEADER MANUFACTURING

1330 76th Avenue SW | Cedar Rapids, Iowa 52404

information@newleader.com

www.newleader.com

Ph. 800.363.8281

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