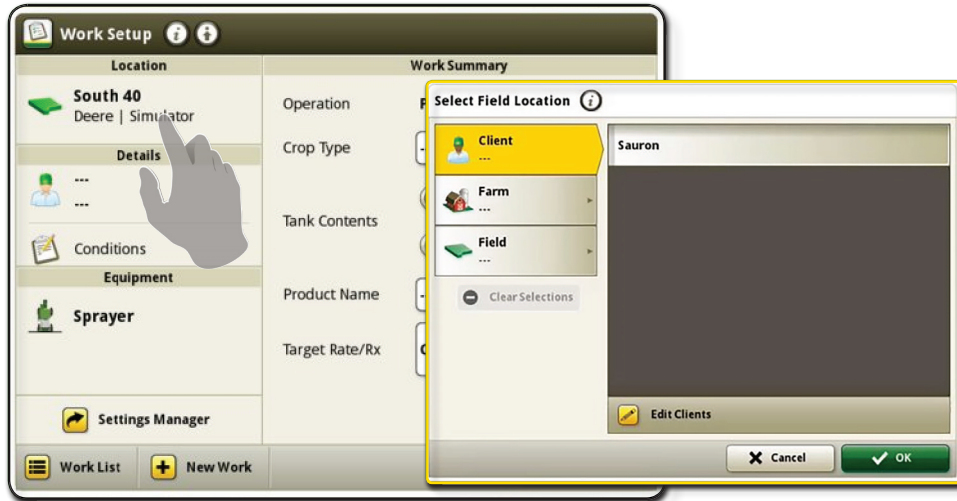


# See & Spray™ Ultimate Quick Reference Guide

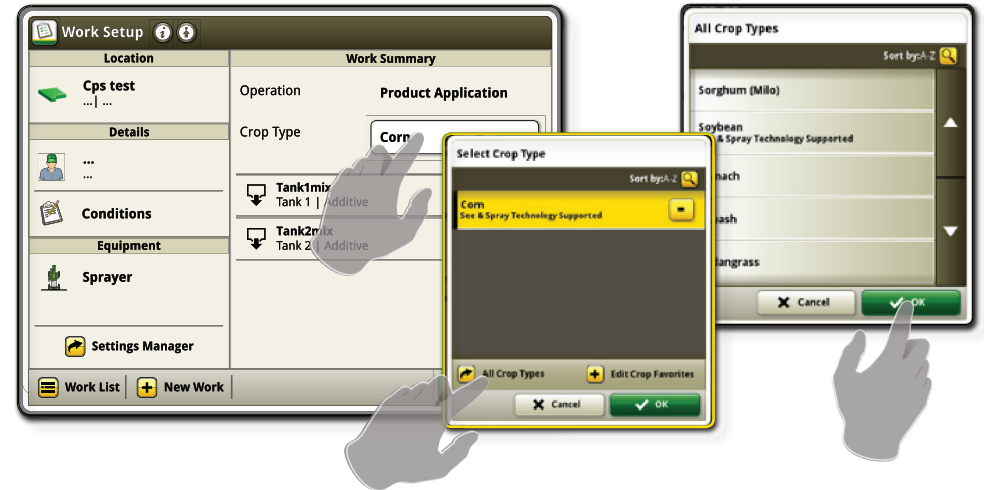
NOTE: Use this as a reference guide. For further details on procedures, see the Operator's Manual provided with the machine.

## Step 1: Input Client, Farm, and Field



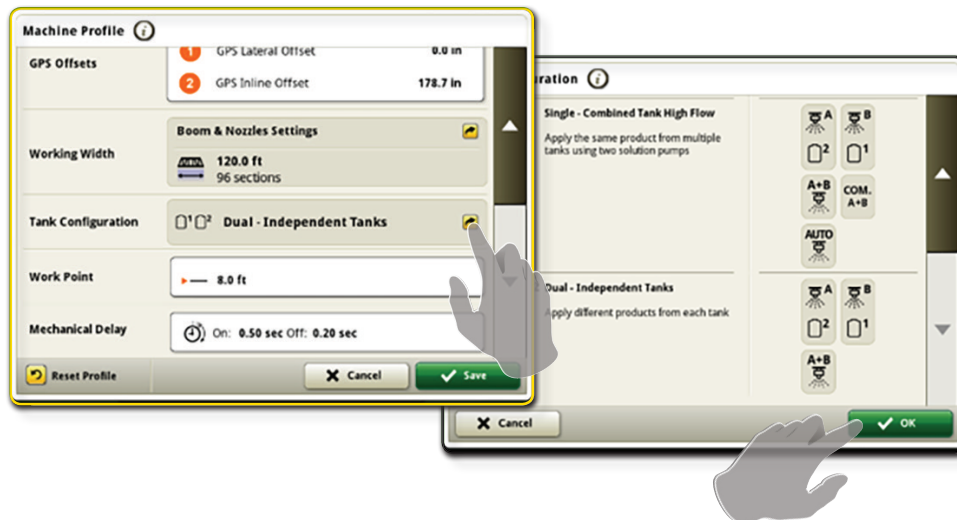
In the Setup menu, navigate to the Work Setup page. Input a Client, Farm, and Field.

## Step 2: Select Crop Type



In the Work Setup page, select "Crop Type." Next, select "All Crop Types." Select your desired crop and press "OK."

## Step 3: Select Tank Mode



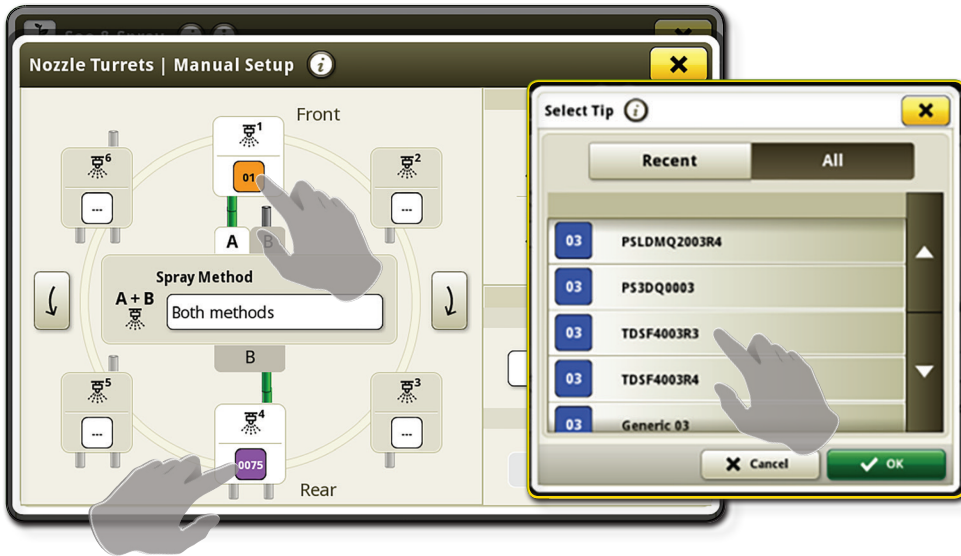
In the Work Setup page, click "Sprayer." Click "Sprayer" again. Enter the Tank Configuration menu and select tank mode.

## Step 4: Name Products



In the Work Setup page, select "Tank1mix" to name the product in tank 1. Repeat the process for tank 2.

## Step 5: Assign Nozzle Tips to Port



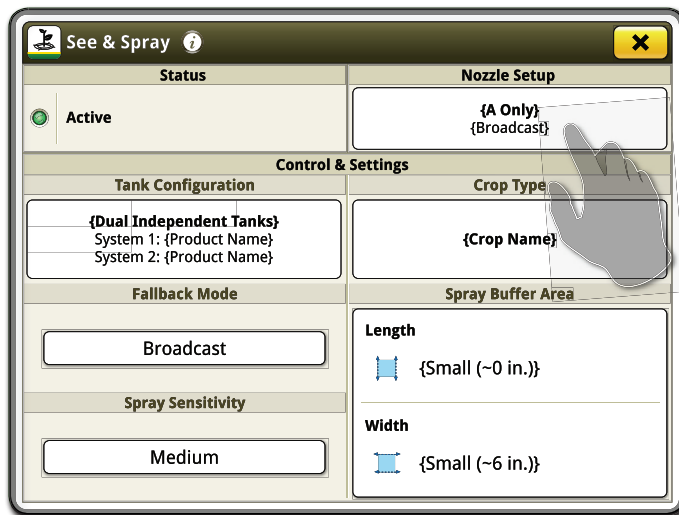
Assign nozzle tips to each port by selecting either “A” or “B” and choosing the correct part number for the respective tips.

**NOTE:** Correct tip part number must be selected. Selecting a generic tip will prevent the operator from using See & Spray™.



Select the “Spray Method” box. Select “A+B” or “B” to use See & Spray™. Select “B” to set nozzle B to See & Spray™ or Broadcast mode.

## Step 6: ExactApply™ Manual Setup



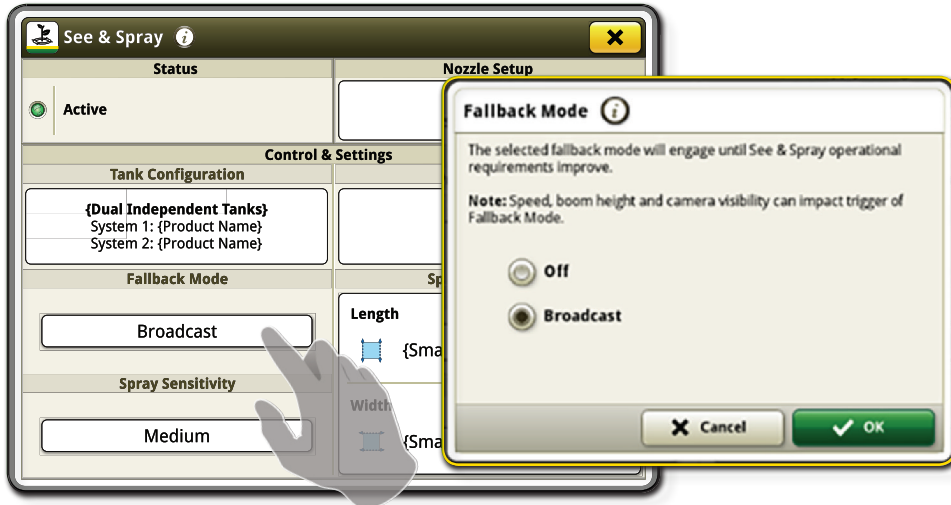
Navigate to the Main Menu, then select the See & Spray™ app. Select “Nozzle Setup.”

## Step 7: Verify Pulsing Mode—Port A

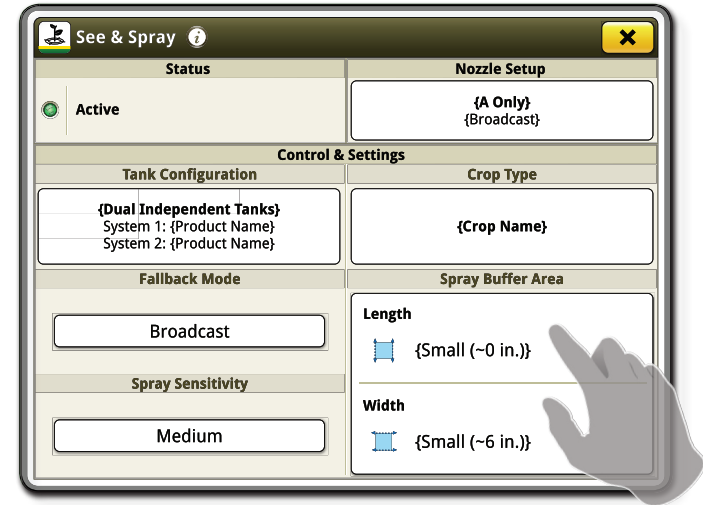


On the Nozzle Turrets Manual Setup page, select the “Value Pulsing Mode” box. Here, you can change the Valve Pulsing Mode for port A to “OFF,” “Fixed,” or “Auto.”

## Step 8: Adjust See & Spray™ Settings



Navigate to the See & Spray™ app. Here, you can set up spray sensitivities and select your desired Fallback Mode.



Select either "Minimum Spray Length," "Minimum Spray Width," or "Spray Sensitivity" and set to desired performance.

## Step 9: Assign Rates (See & Spray™)

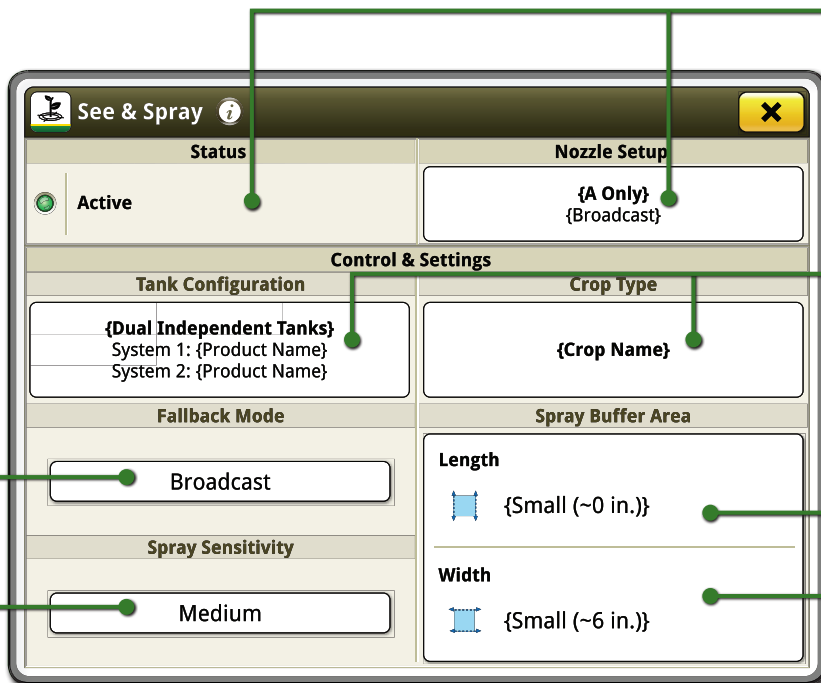


In the Spray System app, select See & Spray™ and input your desired rates for tank 1 and nozzle B.

## Step 9: Assign Rates (Broadcast)



In the Spray System app, select tank 2. Select your desired rates for tank 2 and nozzle A. Rates can be changed in the text box.



## Status and ExactApply™ Configuration:

The "Status" provides visual feedback of system performance or errors.

- Active
- Fallback Mode Active
- Fault Active
- Not Active

*Note: Press the status light to go to the Diagnostic Pages or ExactApply™ Setup pages.*

"ExactApply™ Configuration" is an indication of how the ExactApply™ settings are configured within the Boom and Nozzles app.

## Tank Configuration:

**Premium** - shows the product name entered for current tank.

**Ultimate** - shows the current solution tank configuration selected along with the product name entered for each tank.

## Crop Type:

Select Corn, Cotton, Soybeans, or No Crop (Fallow).

This tells the system what plants you do not want to spray.

## Minimum Spray Length: (Default = Small)

Defines the minimum time in seconds that an enable command is sent to Nozzle B. The selectable setting is correlated to linear feet. The system uses inputs, such as nozzle speed, to calculate the required command "ON" time for a nozzle, correlated to distance traveled (feet). It is recommended to increase the buffer length when operating at varying speeds, accelerating and decelerating often, operating outside of the ideal 30-50 psi spray pressure, or in windy conditions.



## Minimum Spray Width: (Default = Small)

Defines the minimum spray width or number of nozzles that will turn on when a weed target is identified. Boom height & nozzle type will affect the number of nozzles that turn on. It is recommended to increase the buffer width when spraying in windy conditions.



## Starting Points:

Nozzle	Use smallest spray fan angle allowed for the specific application. See nozzle guide.
Rate	10 GPA or greater carrier rate recommend. Follow label.
Boom Height	20" above canopy. See nozzle guide for minimum.
Buffers	Small/Small. Increase if wind speed increases.
Optimization Notes:	<ul style="list-style-type: none"> <li>• Nozzle fan angle is most impactful. Narrow fan saves more product.</li> <li>• Lowering boom height saves more product, but reference nozzle guide for minimum height.</li> <li>• Don't change buffers to only maximize savings. Buffers should match wind speed.</li> <li>• Avoid decreasing sensitivity if max weed control is desired.</li> </ul>

## Spray Sensitivity: (Default = Medium)

### Lowest Setting

Product savings is prioritized. Some targets will be ignored.

### Medium Setting

Balance of product coverage and product savings. Some targets may be ignored.

### Highest Setting

Product coverage is prioritized. Closest equivalent to broadcast.



## Fallback Mode:

Determines nozzle B application behavior when a confidence level for the system is below the threshold set in software. Confidence levels are based on a per camera basis and can't be changed by the operator

**OFF** — When confidence level is Not Met, system will revert to "OFF." he system will not apply any product for the affected See & Spray™ nozzle(s).

**Broadcast** — When confidence level is Not Met, system will revert to "Broadcast." The system will broadcast product for the affected See & Spray™ nozzle(s).

# See & Spray™ — Premium & Ultimate Nozzle Guide



**John Deere  
Targeted Spray  
Low-Drift**  
*TSL80*



**John Deere  
Extended Range**  
*ER80*



**John Deere  
3D**  
*3D100*

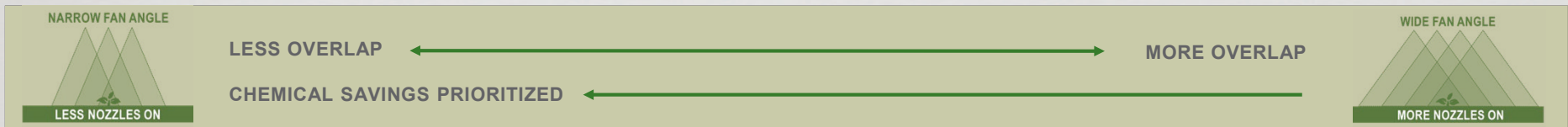


**John Deere  
Ultra Low-Drift**  
*ULD120*



**John Deere  
Low-Drift Max**  
*LDM120*

## JOHN DEERE NOZZLES ▲



## OTHER COMPATIBLE NOZZLES ▼



**Agrotop  
SpotFan**  
*SF40*



**TeeJet  
Visiflo®  
Flat Spray**  
*TP65*



**TeeJet  
Air Induction  
Flat Spray**  
*AI80*



**TeeJet  
DriftGuard**  
*DG80*



**TeeJet  
Air Induction  
XR Flat Spray**  
*AIXR110*

# See & Spray™ — John Deere Nozzles

JOHN DEERE NOZZLES	Application				Nozzle Tip Needed	Incline Adaptor Needed	Gen 4 Display Input	Minimum Boom Height
	Contact Herbicides	Systemic Herbicides	Dicamba & 2,4-D	Cross Row				
<b>John Deere Targeted Spray Low-Drift TSL80</b>		✓	✓		PSTSL8005R4, PSTSL8006R4	Yes: Included in nozzle kit part number ending in "R4"	PSTSL8005R4, PSTSL8006R4	26 in.
<b>John Deere Extended Range ER80</b>	✓	✓			PSER8003, PSER8004, PSER8005, PSER8006	Yes: Use "R4" 40° incline cap for regular tips (AKK53214), ordered separately	PSER8003R4, PSER8004R4, PSER8005R4, PSER8006R4	26 in.
<b>John Deere 3D 3D100</b>	✓	✓		✓	PS3DQ0002, PS3DQ00025, PS3DQ0003, PS3DQ00035, PS3DQ0004, PS3DQ0005, PS3DQ0006, PS3DQ0008	No: Built-in 38°	PS3DQ0002, PS3DQ00025, PS3DQ0003, PS3DQ00035, PS3DQ0004, PS3DQ0005, PS3DQ0006, PS3DQ0008	26 in.
<b>John Deere Low-Drift Max LDM120-R4</b>		✓	✓	✓	PSLDMQ2003R4, PSLDMQ2004R4, PSLDMQ2005R4, PSLDMQ2006R4, PSLDMQ2008R4	Yes: Included in nozzle kit part number ending in "R4"	PSLDMQ2003R4, PSLDMQ2004R4, PSLDMQ2005R4, PSLDMQ2006R4, PSLDMQ2008R4	26 in.
<b>John Deere Ultra Low-Drift ULD120 &amp; ULD120-R4</b>		✓	✓	✓	PSULD2002, PSULD20025, PSULD2003 or PSULD2003R4, PSULD2004 or PSULD2004R4, PSULD2005 or PSULD2005R4, PSULD2006 or PSULD2006R4, PSULD2008 or PSULD2008R4	Yes: Included in nozzle kit part # ending in "R4". Use "R4" 40° incline cap for regular tips (AKK53214), ordered separately	PSULD2002R4, PSULD20025R4, PSULD2003R4, PSULD2004R4, PSULD2005R4, PSULD2006R4, PSULD2008R4	26 in.
<b>OTHER COMPATIBLE NOZZLES</b>								
<b>TeeJet Visiflo® Flat Spray TP65</b>	✓	✓			PMTP6503-SS, PMTP6504-SS, PMTP6505-SS, PMTP6506-SS <i>(Coming soon to PDC)</i>	Yes: Use "R4" 40° incline cap for regular tips (AKK53214), ordered separately	TP6503R4, TP6504R4, TP6505R4, TP6506R4	15-in. Nozzle Spacing: 26 in. 20-in. Nozzle Spacing: 30 in.
<b>TeeJet Air Induction Flat Spray AI80</b>		✓	✓		PMAI8003-VS, PMAI8004-VS, PMAI8005-VS, PMAI8006-VS <i>(Coming soon to PDC)</i>	Yes: Use "L4" 40° incline cap for long tips (AKK53216), ordered separately	AI8003L4, AI8004L4, AI8005L4, AI8006L4	26 in.
<b>TeeJet DriftGuard DG80</b>	✓	✓			Sizes 03, 04 & 05 <i>(Source through TeeJet)</i>	Yes: Use "R4" 40° incline cap for regular tips (AKK53214), ordered separately	DG8003R4, DG8004R4, DG8005R4	26 in.
<b>TeeJet Air Induction XR Flat Spray AIXR110</b>		✓	✓	✓	Sizes 02, 025, 03, 04, 05 & 06 <i>(Source through TeeJet)</i>	Yes: Use "R4" 40° incline cap for regular tips (AKK53214), ordered separately	AIXR11002R4, AIXR110025R4, AIXR11003R4, AIXR11004R4, AIXR11005R4, AIXR11006R4	26 in.
<b>Agrotop SpotFan SF40</b>		Fallow Application Only			Sizes 03 & 04 <i>(Source through Greenleaf)</i>	Yes: Use "R4" 40° incline cap for regular tips (AKK53214), ordered separately	SF4003R4, SF4004R4	15-in. Nozzle Spacing: 30 in. 20-in. Nozzle Spacing: 33 in.

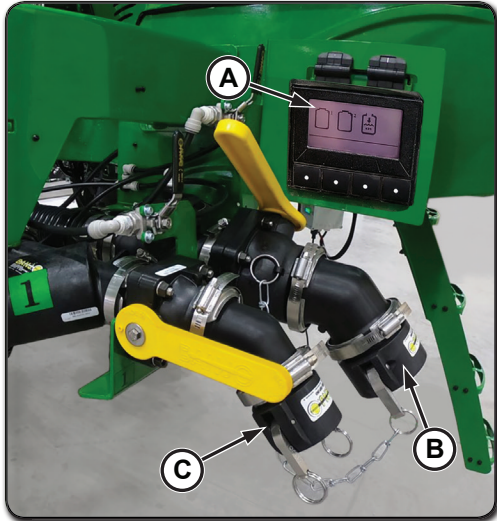


## See & Spray™ — Capability & Measurement Chart

Capability	Measurement	See & Spray™ Select	See & Spray™ Premium	See & Spray™ Ultimate	Notes
<b>Maximum Target Application Speed</b>					
	12 mph	X	X	X	<ul style="list-style-type: none"> <li>• <b>Ultimate</b> and <b>Premium</b> must use approved rear-incline nozzles.</li> <li>• <b>Select</b> must use approved rear-incline nozzles for speeds above 12 mph.</li> </ul>
	15 mph	X		X	
	16 mph	X			
<b>Minimum Crop Height</b>					
<i>NOTE: Ultimate and Premium options can see weeds approximately 0.635 cm (¼ in.) in diameter by 0.635 cm (¼ in.) in height. Select can see approximately 0.9 cm (0.35 in.) in diameter by 1.5 cm (0.6 in.) in height.</i>	Corn ≥ V2	X	X	X	
	Soybean ≥ V1	X	X	X	
	Cotton ≥ Cotyledon	X	X	X	
	Fallow = N/A	X	X	X	
<b>Maximum Crop Height</b>					
<i>NOTE: If the crop canopy covers the row, then cameras cannot see weeds. The system can see weeds that are approximately 0.635 cm (¼ in.) in diameter by 0.635 cm (¼ in.) in height.</i>	Corn ≤ 16"		X	X	
	Soy ≤ 16"		X	X	
	Cotton ≤ 16"		X	X	
	Fallow	X	X	X	<ul style="list-style-type: none"> <li>• If stubble is present (depending on height) combine header height adjustments should be considered.</li> </ul>
<b>Row Spacing</b>					
<b>Row Spacing – 30" minimum Approved Crops</b>	With Row Travel	X	X	X	
<b>Row Spacing – 15" minimum Soybean ONLY</b>	With Row Travel	X	X	X	<ul style="list-style-type: none"> <li>• 65-degree spray angle minimum</li> </ul>
	Cross Row Travel		X	X	<ul style="list-style-type: none"> <li>• Cross row 12 mph maximum</li> <li>• 9" crop height</li> <li>• 30-degree spray angle</li> <li>• Wide fan nozzle tips only</li> </ul>

# See & Spray™ Ultimate Filling Quick Reference Guide

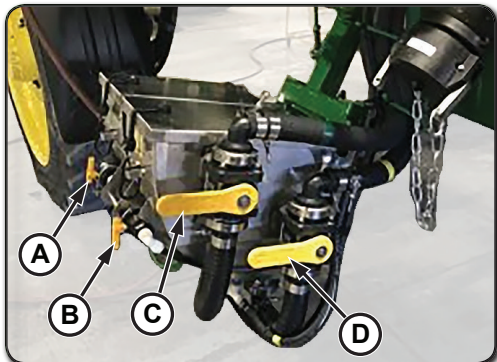
NOTE: Use this as a reference guide. For further details on procedures, see the Operator's Manual provided with the machine.



- Front Fill Micro Display (A)
- Larger **Main** Port to Fill Tank 1, Tank 2, or Rinse Tank (B)
- Smaller **Dedicated** Port for Pushing ON to Tank 1 (C)



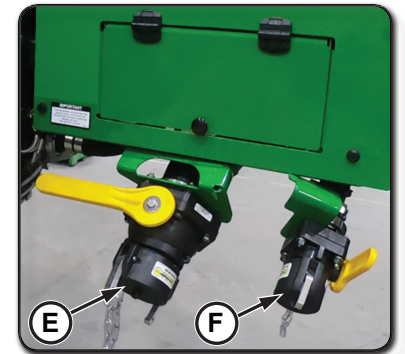
System 1                      System 2                      Misc.



- Eductor 1 Rinse Valve (A)
- Eductor 2 Rinse Valve (B)
- Eductor 1 Sump Valve (C)
- Eductor 2 Sump Valve (D)

Filling Functions	Tank 1	Tank 2	Rinse Tank
Main Front Fill Port	Yes	Yes	Yes
Main Side Fill Port	Yes	Yes	Yes
Dedicated Front Fill Port	Yes	No	No
Dedicated Side Fill Port	No	No	Yes

Can be used at the same time?	Main Front Fill Port	Main Side Fill Port	Dedicated Front Fill Port	Dedicated Side Fill Port
Main Front Fill Port	X	No	No	Yes
Main Side Fill Port	No	X	Yes	Yes
Dedicated Front Fill Port	No	Yes	X	Yes
Dedicated Side Fill Port	Yes	Yes	Yes	X



- Larger **Main** Side Port to Fill Tank 1, Tank 2, or Rinse Tank (E)
- Smaller **Dedicated** Side Port for Pushing ON to Rinse Tank (F)

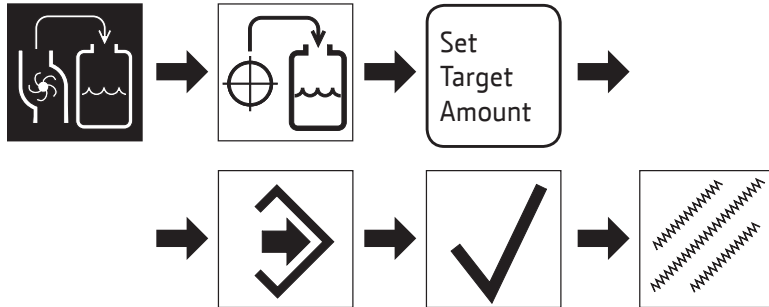


## Side Filling

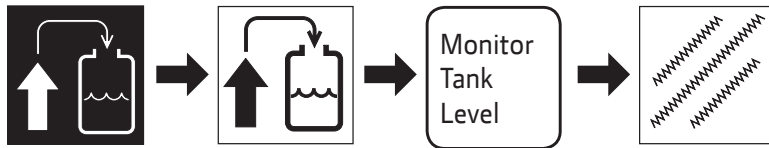
- Press Button on 20-button keypad for the tank to be filled, pull or push the ON button, and then interact with that tank system's micro display. Press cancel (3 slashes) to go back to the default page.

- Hot Loading**—It is recommended to use the front fill ports to avoid cross contamination.

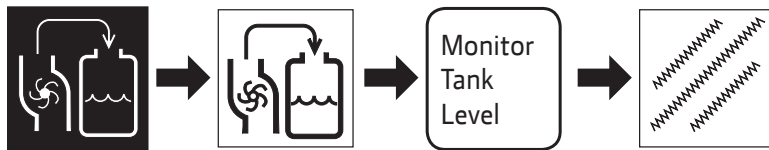
- Pull ON Target Fill



- Pushing ON—Cancel *after* shutting down nurse pump.



- Pulling ON to either tank—Hook up to main port and pull ON to either tank.



- Pushing ON to rinse tank—Hook up to dedicated port and open valve. **No keypad/display interaction is required.**

## Front Filling

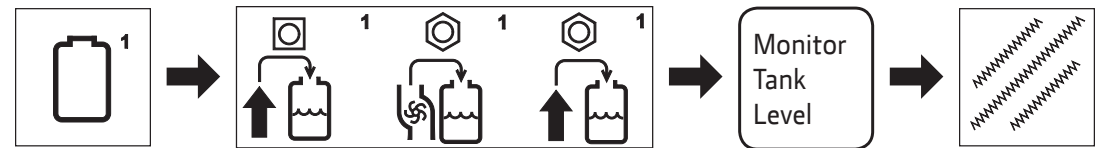
- Press tank to be filled on micro display. Follow with presses on filling function on the micro display.

- If pulling ON with target fill, first set target fill in the Gen 4 display.
- Next, hook up to main port and pull ON to either tank system.

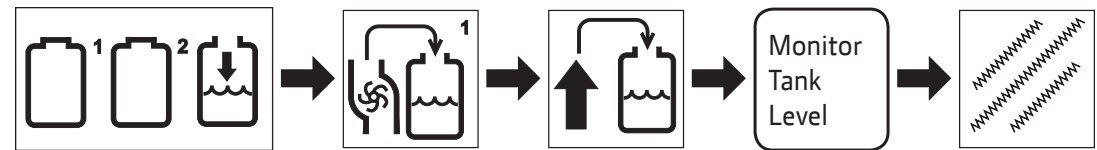


- Hot Loading**—It is recommended to push ON to tank 1 from dedicated port and push ON to tank 2 from main port to avoid cross contamination.

- Pushing ON to tank 1—Hook up to either main or dedicated port. Cancel after shutting down the pump.



- Pulling ON—Hook up to main port and pull ON to tank 1, 2, or rinse tank.



- Front fill air purging—Set the display up for pushing ON to the machine. Leave the main valve closed and open air valve for 10 seconds to push fluid back into the desired tank.