KIBBLE EQUIPMENT

READY TO SPRAY GUIDE

2630 Monitors

JOHN DEERE

Contents

Notes

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

GPS Receiver Setup

Select Starfire Receiver from main menu.
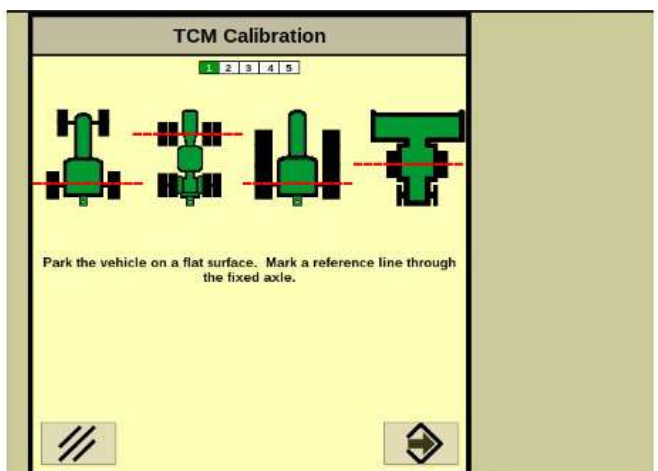

Verify signal is 90% or greater under info tab before starting any fieldwork.
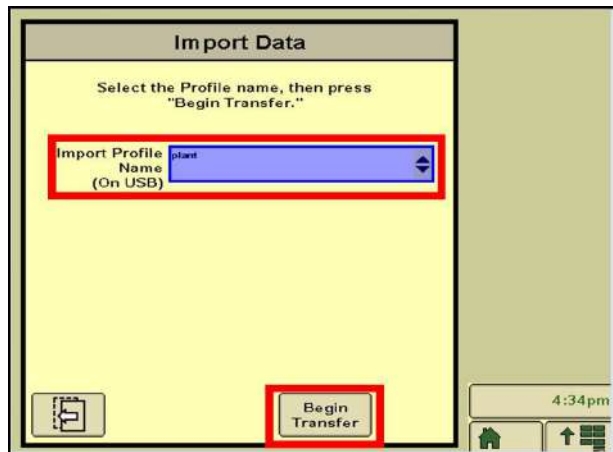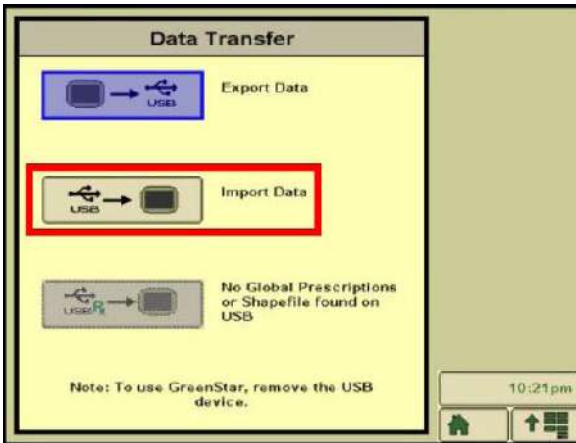
www.KibbleEq.com
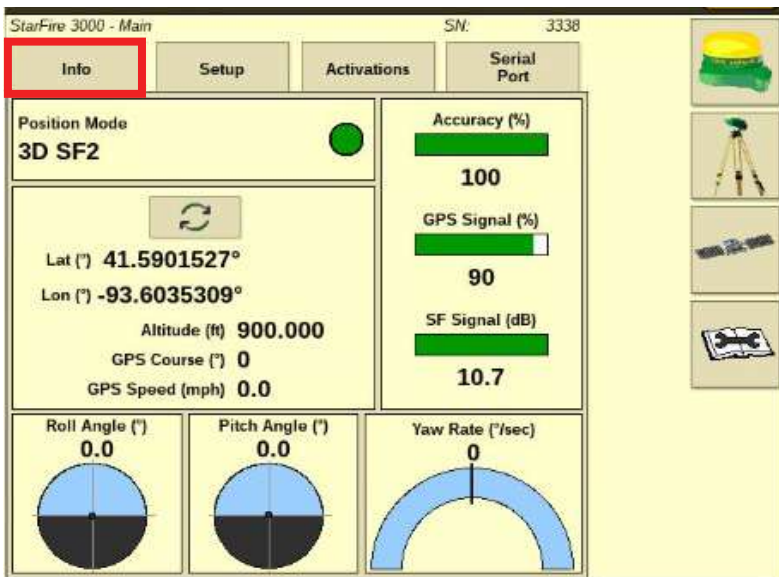
GPS Receiver Setup

Then navigate to setup tab to calibrate TCM. Follow on screen instructions.
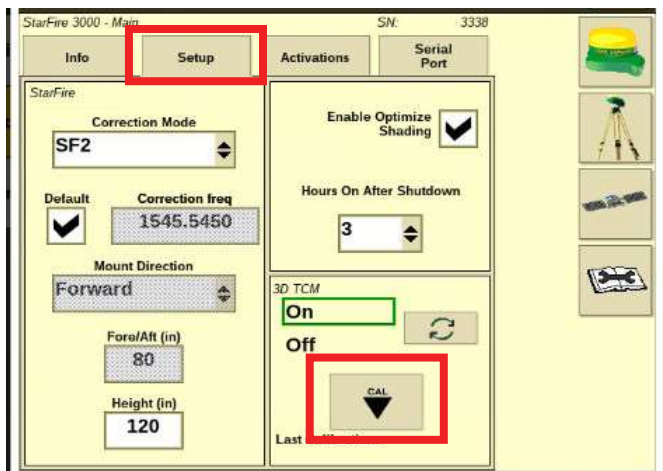
Importing Data

Data Import using a USB Drive

1. Insert USB drive, loaded with your data, into the GS3 2630. Data transfer screen will appear. Select the *Import Data* button.
2. Select the correct *Import Profile Name* then the *Begin Transfer* button.

3.Remove the USB drive after the transfer is complete.
Note: Profile name would have been created during the creation of the setup file.
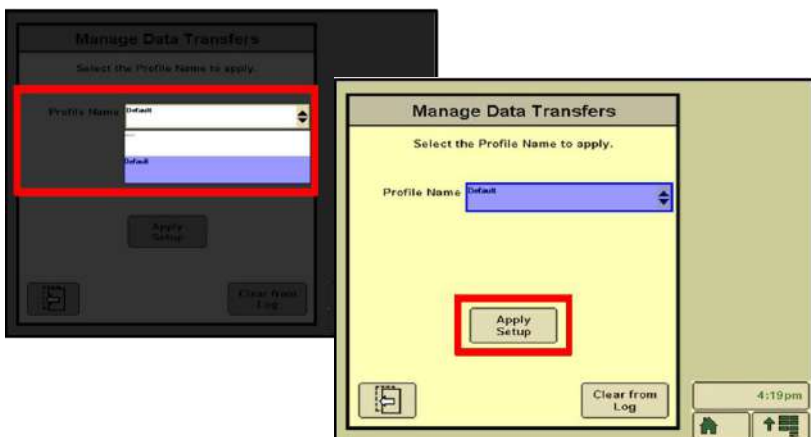
Importing Data

Data Import using Wireless Data Transfer

1. Select *Menu -> GS3 - GS3 -> Memory tab*. A list of available files in the *Transfer Log* at the bottom of the page should be visible. Select the file to load onto the display.
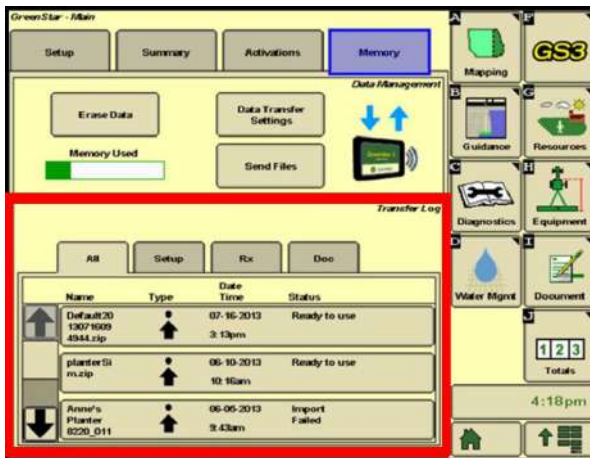
2. Confirm the name of the file from the drop-down box and select *Apply Setup*.

Display Setup

Display Setup

1. Select the *Menu* button then select the *GS3* button.

2. On the Setup tab, ensure there is a check mark next to *Documentation, Guidance, and Section Control.* Next select *Accept*.

www.KibbleEq.com

Resources Setup

3. If field boundaries have been loaded, select *Find Field*. If not, manually select the needed *Client, Farm and Field*.

Note: Be sure to also select the appropriate Task and Crop Season (i.e. crop year).

Select the *Next* button.

Machine Setup

4. Select *Machine Name.* Check that *Recording Source* is grayed out to Auto. Make sure the offsets loaded are accurately listed on the screen. If not, correct any errors by selecting *Change Offsets.*

Select the *Next* button to continue.

Machine Offsets

A) Center of GPS Receiver to Center line of Machine

B) Center of GPS Receiver to Center of Non-Steering Axle

C) Center of Non-steering axle to spray nozzles
(in operating position)
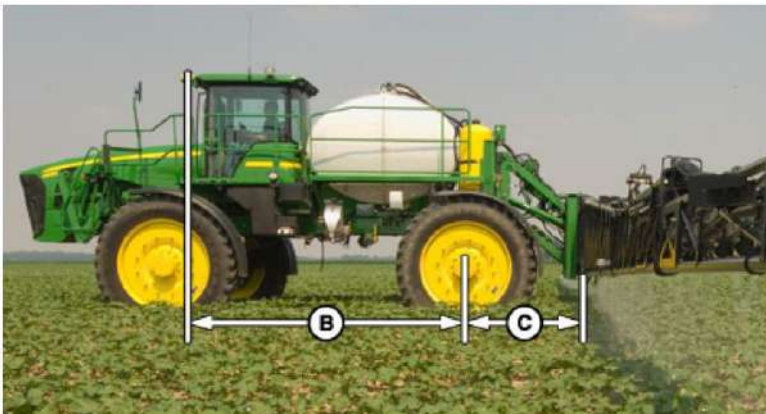
Implement Width: Width of spray area, may extend outside of spray booms.

Implement Setup

5. Select *Implement Name.* Offsets are entered under the sprayer tab. Enter boom width into track spacing and physical width. Press next.

Section Control Setup

6. Section Control setup. Check mark *Section Control Master* to enable. Verify *Overlap Settings* and *Turn On/Off Settings* are accurate. Select the *Next* button.

Note: Default settings - On time = 1.0 sec and Off time to = 0.6 sec.See chart on next page to fine tune.

Turn OFF times

Turn ON times

Decrease turn off time

Increase turn off time

Decrease turn on time

Increase turn on time

GAP

GAP

Overlap

Overlap

14
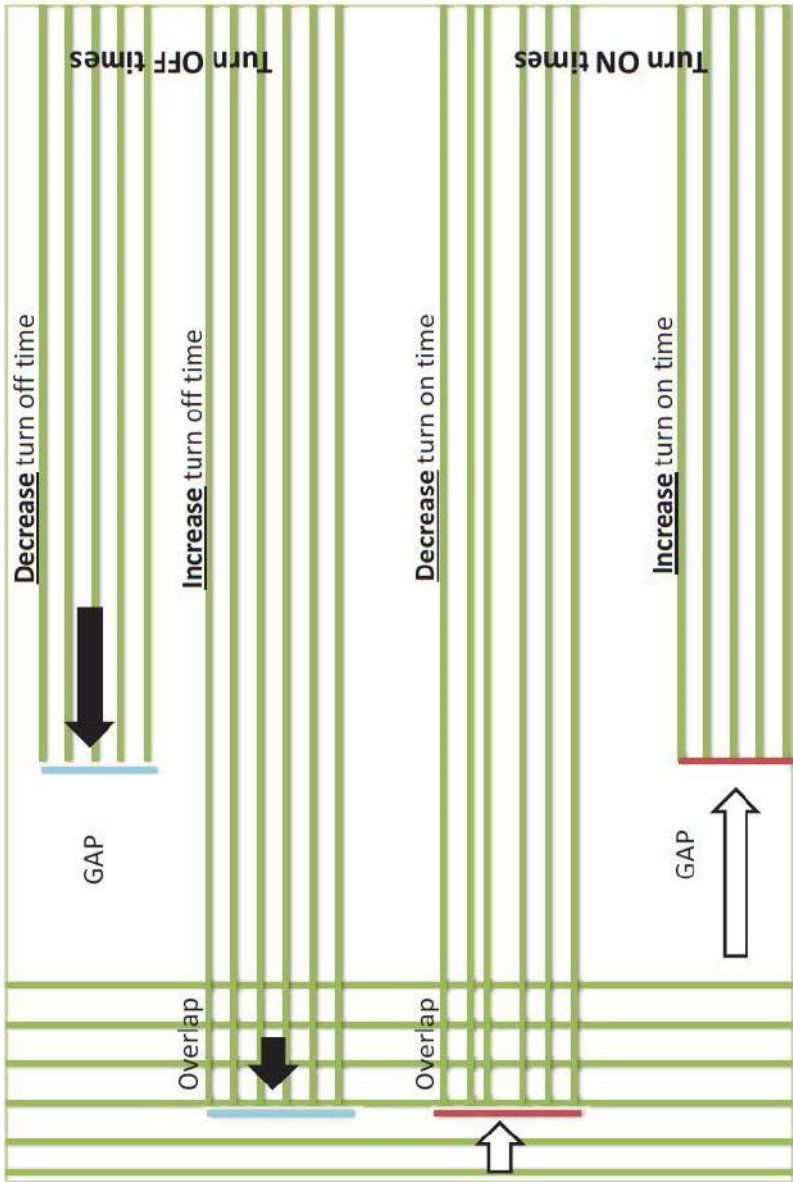
Documentation Setup

7. Select *Product Application Type* (Single or Tank Mix) and click *Add Product*. Enter product info and click accept. *Next* to continue.


Verify Target Rate is correct. To change, go to sprayer setup.

Documentation Setup

To create a tank mix enter your carrier type and base solution rate. Select Add Product to add each product type, name, and rate.

CAUTION: Documentation will not work with two product application tabs. Do not add any additional tabs for any sprayer except for sprayers with direct injection.
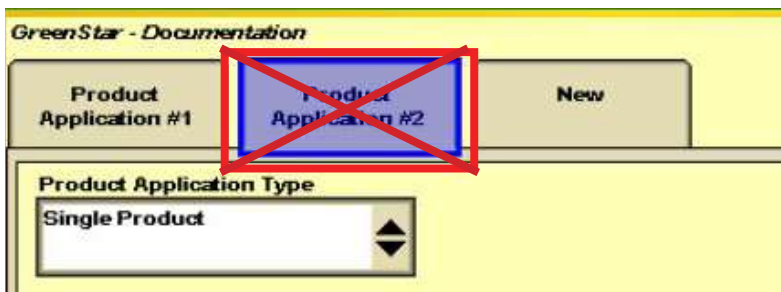
To delete unwanted tabs click into the tab and select remove in the bottom lefthand corner.

Boundary Setup

8. Select *Tracking Mode* and then *Next* to continue.
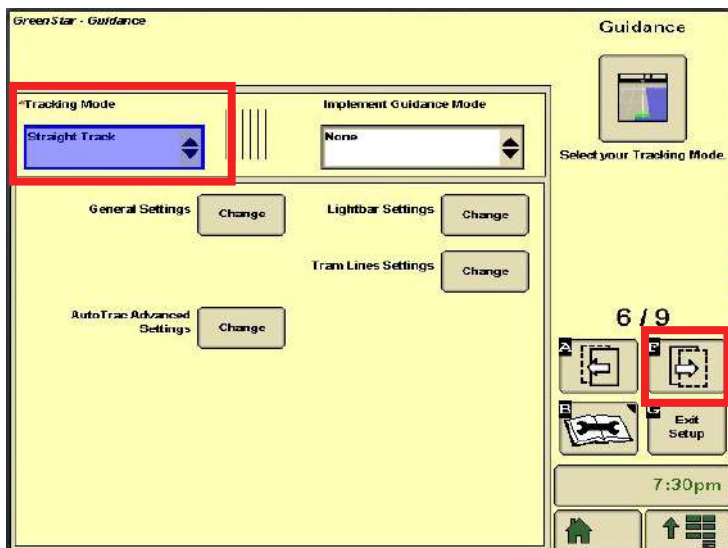
9. Turn on *Small Shifts* and then *Next* to continue.

10. Create boundary or click *Next* to continue.
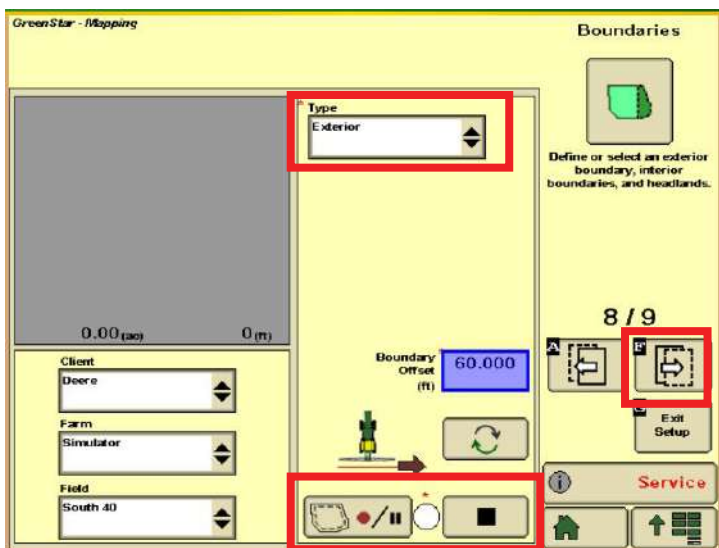
Guidance Setup

11. Click *Set Track 0.*
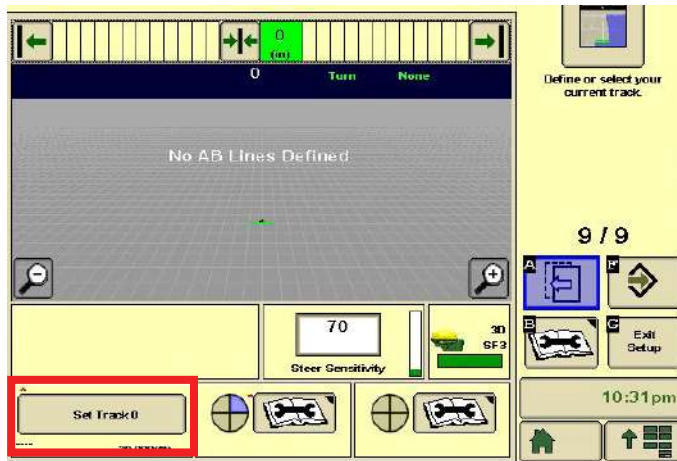
12. Choose New -> Create Name -> Choose Method (A+B, A+Heading, etc.) -> Set A -> Set B or enter heading -> Accept to create Track

www.KibbleEq.com
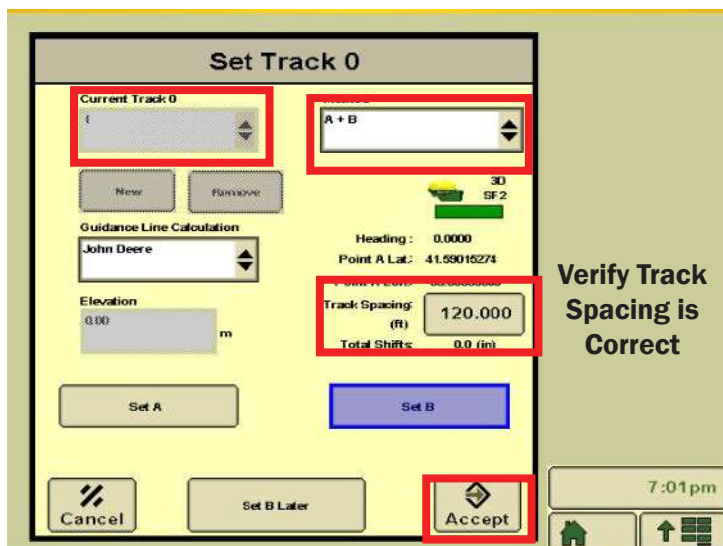
Guidance Setup
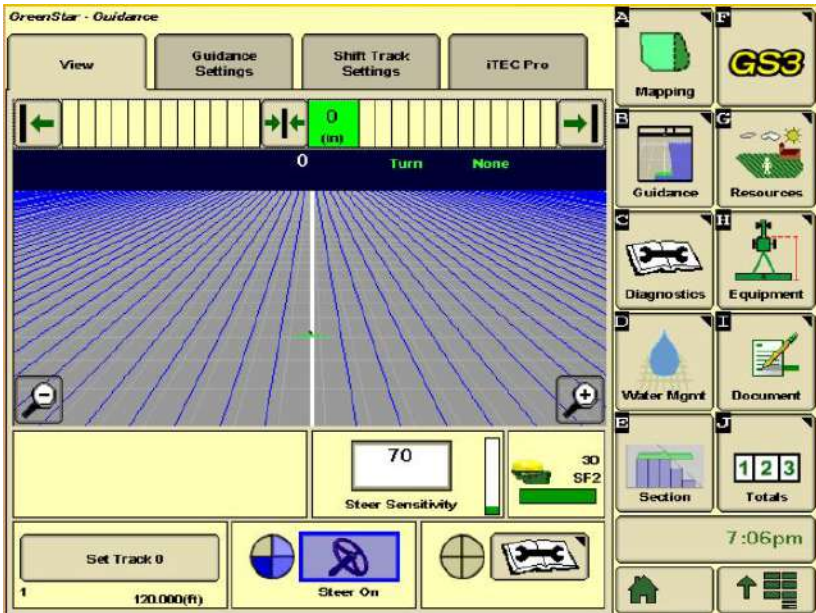
Once track is complete enable autotrac by pressing the steer on button (3 pieces of the pie)

Press resume switch on side of hydro handle to autotrac.
1 = boomtrac resume
2 = autotrac resume

Mapping Setup

Changing coverage map to a Rate Map

Select *GS3* then *Mapping.* Click *Map Settings* and for Foreground layer choose *Rate Map*.

Note: A RX can be loaded to the background.

Hydro Handle

Boom Index Reset - enable all

Boom Index L & R

Foamer L & R

Target
Speed
Switch
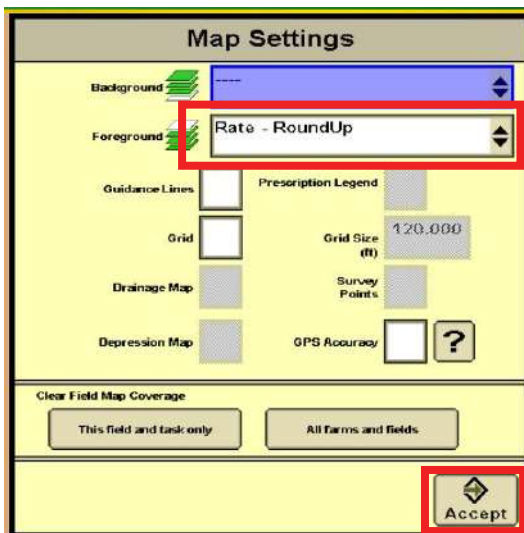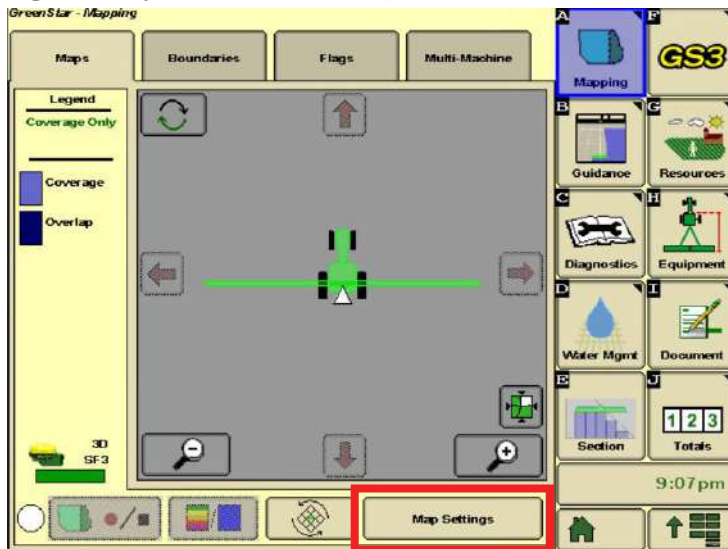
Master
On/Off

Raise/Lower
Center Boom

Boom tilt
Left/Right

Armrest Controls

Pump On/Off

Target Rate Selection

Agitation On/Off

Fence Row Nozzles

Tread Adjust

Road Transport

Secondary Brake
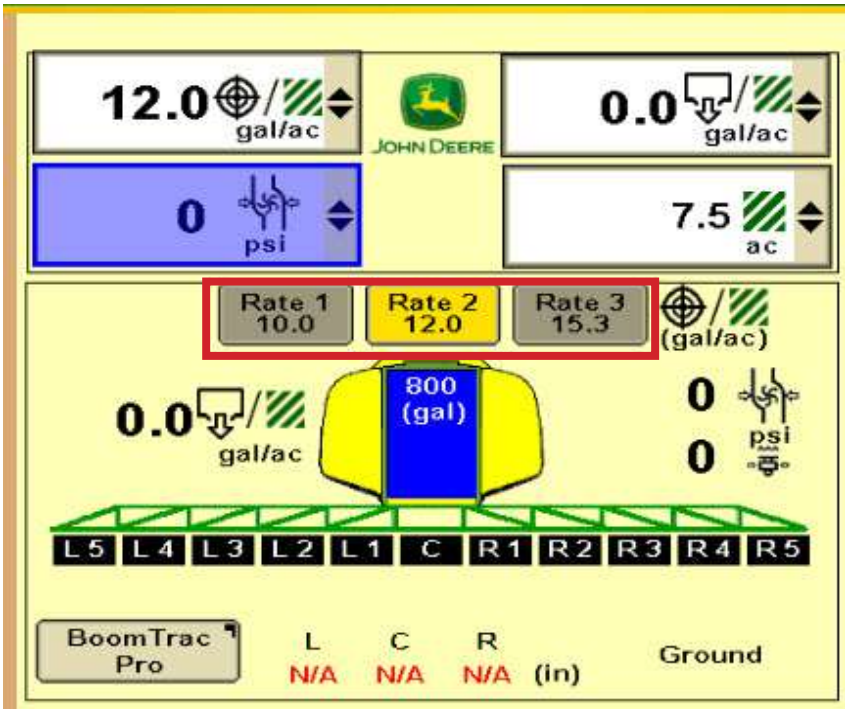
Engine Speed

Diff Lock

Ladder

Programmable Buttons

Park Brake
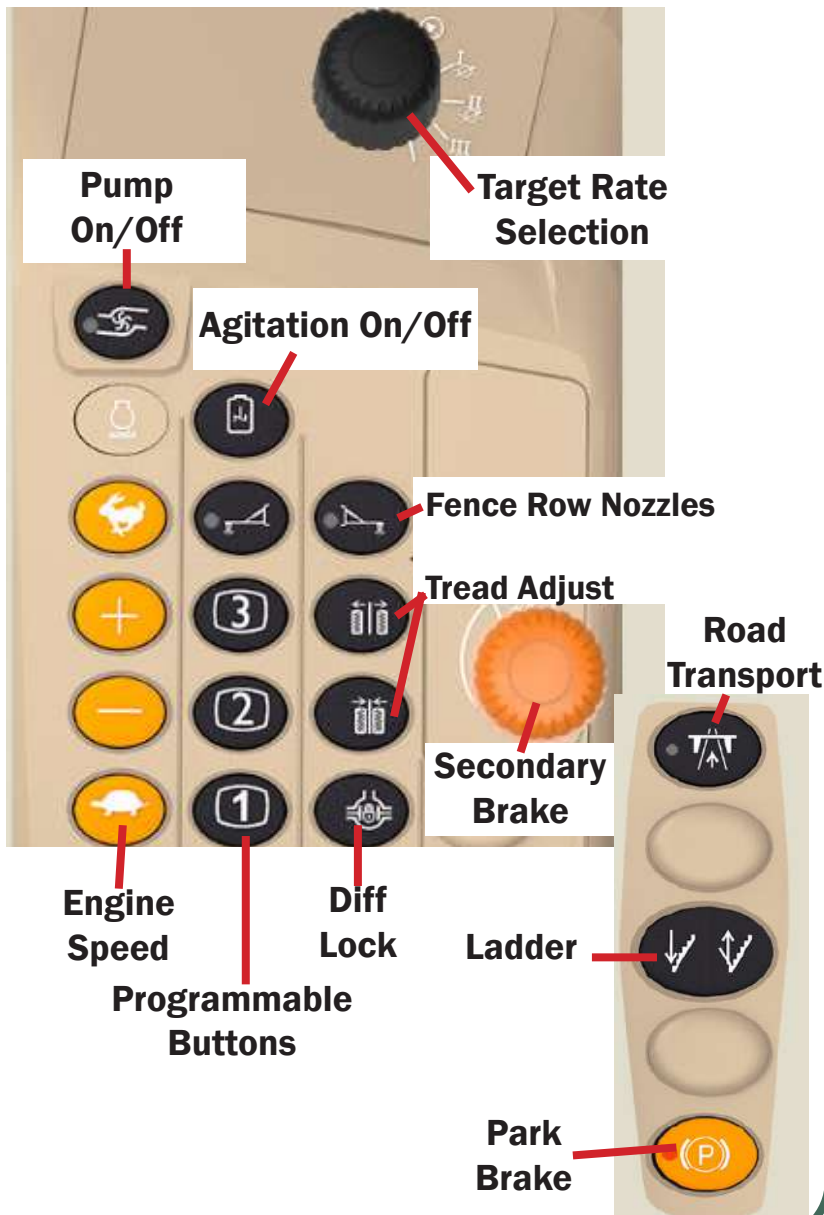
Rate Setup

Use the Target Rate Selection dial to choose manual spray mode or target rate 1, 2, or 3. The aux position is for prescriptions.

From sprayer run page choose rate box to edit target rates.

Spray System Setup

From Sprayer Menu choose Setup Button. Select spray setup tab to configure alarms, tank fill, agitation, and minimum spray pressure.

www.KibbleEq.com

Spray System Setup

From the Spray Setup tab use the Nozzle Calculator to determine best nozzle match for desired rate, speed, and pressure.
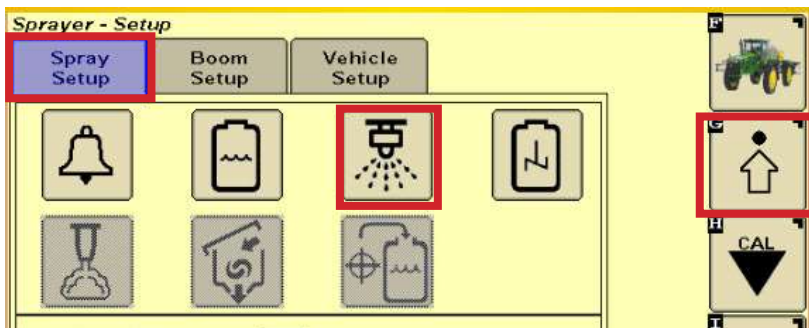
Nozzle Calculator

Application Rate (gal/ac)	15.0	Nozzle Spacing (in): 15
Application Speed (mph) — Low	7	Nozzle Pressure (psi): 60
Application Speed (mph) — High	15	

Specific Gravity: Water - 1.00 SG

Best Match	Recommended Nozzle Sizes	Pressure Low Spd	Pressure High Spd
	35	23	105
	4	18	80
	5	----	50

High Speed Tip Flow (gpm): 0.555

Total Boom Flow (gpm): 40

Spray System Setup

From the Boom Setup tab setup Return to Height modes and set position.

From the Vehicle Setup tab setup select speed source. GPS or radar will be most accurate.

www.KibbleEq.com

BoomTrac Pro

From Sprayer Run Page select BoomTrac Pro to enable system and select Ground or Canopy mode. Setup Center Frame Control, Heights and Raise and Lower Sensitivity settings.
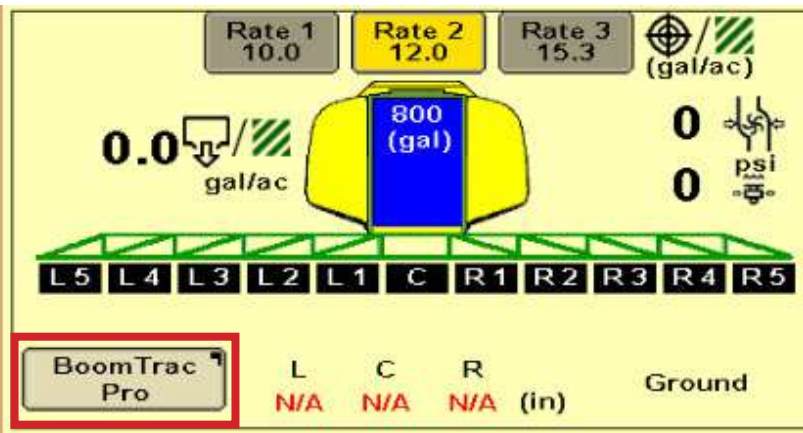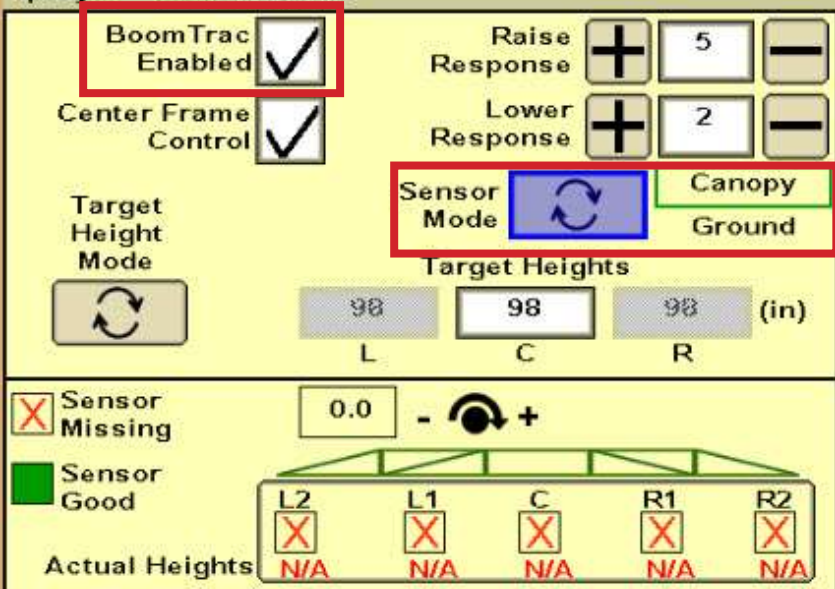
ExactApply

 From main menu select Exact Apply. Run Page will show current settings and nozzle percent flow.
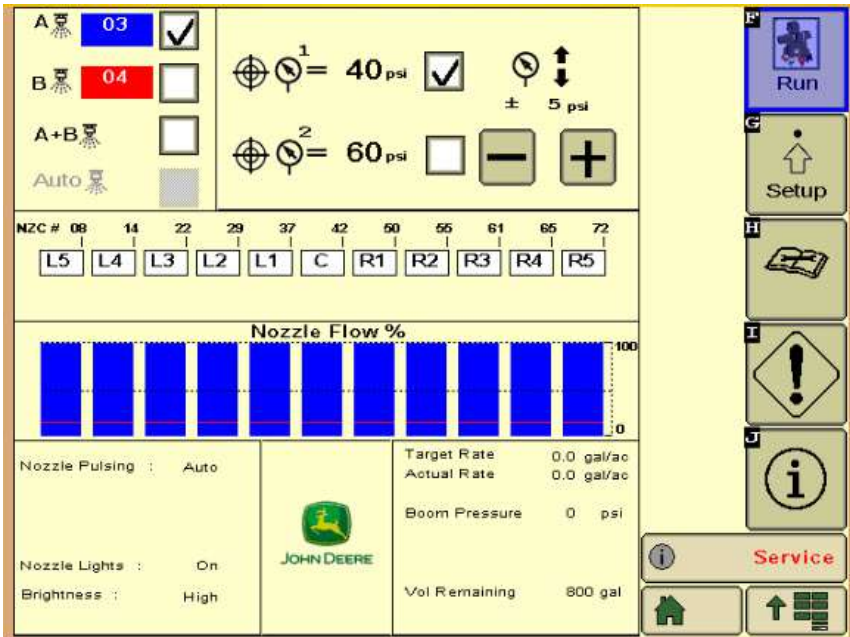
Nozzle Setup

Choose Setup button on right hand menu and go to Nozzle Setup Tab.
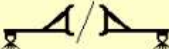
Change your active tips by using the arrow button to rotate your nozzle turrets.
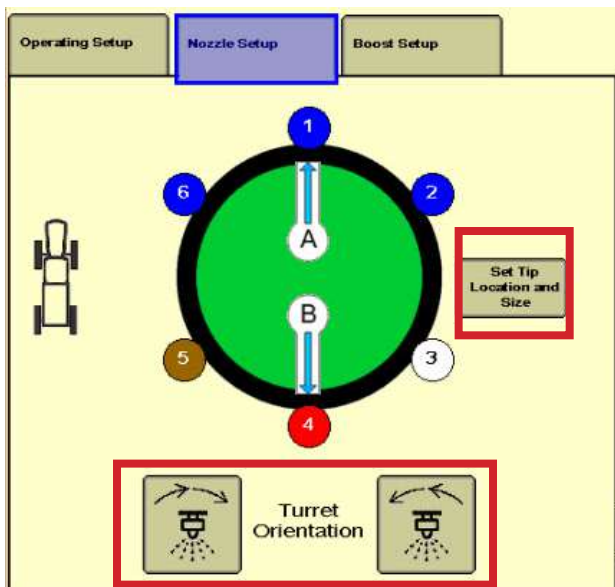
Select "Set Tip Location and Size" to identify Nozzles in positions 1 - 6.

Pulsing Mode

Go to Operating Setup tab. Select Nozzle pulsing - off/fixed/auto. Enable turn compensation.

Select Active Nozzle: A only, B only, A+B

Note: Automatic nozzle switching not available while pulsing is on.

www.KibbleEq.com

A+B Switching

Automatic Nozzle Switching Mode Setup - the following conditions must be met before Auto Mode is availabe:
1. Valve pulsing set to OFF. (Operating Setup Tab)

2. Nozzle body turret set with 1,2, or 3 in the front position.
3. Spray tips setup in both front and rear turret positions.
4. Rate based application selected.

Enable your tip and adjust min and max pressures. (bottom box shows tip used at different speeds)

ExactApply

	Nozzles 4, 5, 6 in the Front Position	
	Combined A + B Pulsing OFF	Combined A + B Automatic Pulsing
Speed Range	Base	Better
Turn Compensation	Not applicable	Good
Boost	Not applicable	Good
Pressure Selection	Not applicable	Target
Coverage	Best	Best
High Application Rates	Best	Better
Manual Nozzle Selection using the Display or CommandArm	No	No
Notes		a

Notes:
a - One nozzle supplied by two solenoids with alternating pulses
b — One nozzle supplied by one solenoid
c — Supplies two nozzles with one solenoid each with alternating pulses.
d — Different spray tip sizes can be used on both turret positions. Spray tips must be 02 or larger.

ExactApply

	Nozzles 1, 2, or 3 in the Front Position		
	A Only or B Only - Automatic Pulsing	A + B Automatic Pulsing	Automatic Pulsing OFF
Speed Range	Best	Best	Good
Turn Compensation	Best	Best	Not applicable
Boost	Best	Best	Not applicable
Pressure Selection	Target	Target	Target Range
Coverage	Good	Best	Best
High Application Rates	Good	Best	Best
Manual Nozzle Selection using the Display or CommandArm	Yes	Yes	Yes
Notes	b	c, d, e	f, g

Notes:

e — Dual fan pattern possible

f — Uses a small and a large spray tip. The large spray tip cannot be more than double the size of the small spray tip.

g — Sprays without pulsing, automatically switching between the front, rear, or both nozzles within an operator set pressure range.

Autotrac Vision

Choose Layout Manager from main menu. Select split screen configuration. For top of screen select rowsense, bottom select video input.

Setup	Camera Calibration	Diagnostics

Choose RowSense setup button to enable system. Change sensor selection and select row entry mode

Row Guidance - Setup

System Status — Enabled

Sensor Selection

RowSense

Row Entry Mode — Manual Steer

Vision ✓

?

1/2
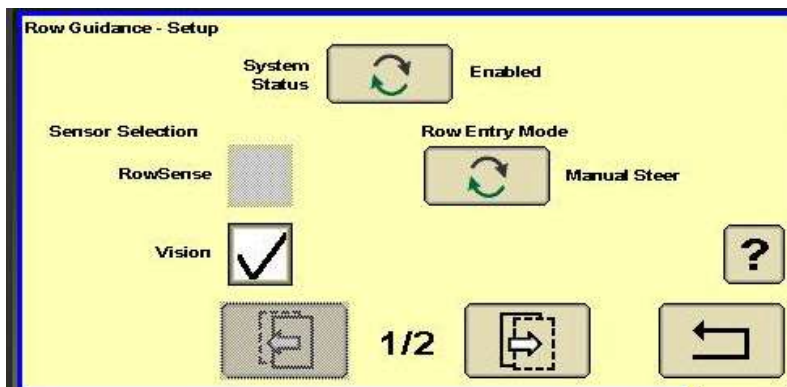
System Active operating with both RowSensor and GPS.

No GPS signal. Operating with RowSensor data only.

No RowSensor signal. Operating with GPS only.

Autotrac Vision

For best results, complete accurate TCM calibration for receiver. Use manual steer for row entry mode if not using original AB line from planting. Vision camera may require multiple calibrations due to changing conditions. Select Camera Calibration to start cal.
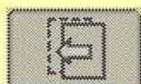

Be sure to enter correct row spacing. Continue cal process by lining up indicators on crop row and driving down rows until cal is complete.

NEED ASSISTANCE? CONTACT US!

Belle Plaine, MN	952-873-2224
Bird Island, MN	320-365-3445
Blue Earth, MN	507-526-2714
Brookings, SD	605-693-3514
Garretson, SD	605-594-3476
Hollandale, MN	507-889-4221
Huron, SD	605-352-8519
Madison, SD	605-256-4575
Mankato, MN	507-387-8201
Marshall, MN	507-537-1523
Milbank, SD	605-432-5523
Minnesota Lake, MN	507-462-3828
Montevideo, MN	320-269-6466
Northwood, IA	641-324-1154
Osage, IA	641-732-3719
Owatonna, MN	507-451-4054
Redwood Falls, MN	507-644-3571
Sleepy Eye, MN	507-794-5381
Tyler, MN	507-247-5572
Wabasso, MN	507-342-5171
Watertown, SD	605-886-3545
Wheaton, MN	320-563-8112