

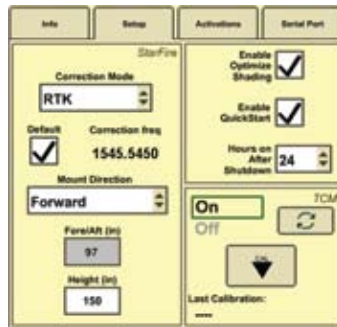
GreenStar™ AutoTrac™ Sugar Cane Harvester QUICK REFERENCE GUIDE

1. To make AutoTrac function the following criteria are required:

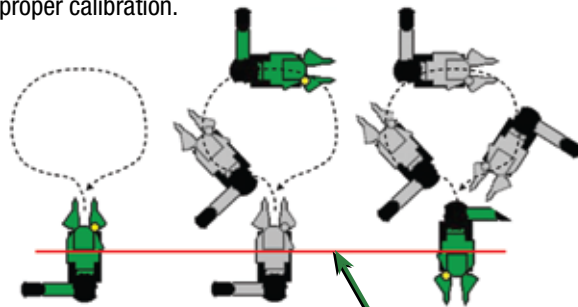
- Integrated AutoTrac installed on Machine.
- GS2 or equivalent Display with AutoTrac Activation.
- StarFire Receiver with GPS signal SF1, SF2 or RTK (SF2 and RTK recommended).
- StarFire Receiver Setup and TCM Calibrated.
- General Setup (Resources, Machine, Header, and Harvest Settings).
- Guidance Lines Setup.
- AutoTrac Enabled and Activated.

2. Receiver Setup and TCM Calibration

Under **StarFire iTC** Softkey enter the complete setup for the receiver, including the receiver height (suggested value for height = 150 inches/ 3.80m).



For the **TCM Calibration** please follow the steps prompted on the StarFire Receiver TCM calibration screen. The graphic below illustrates how to drive the Harvester to perform proper calibration.

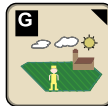


Note: A flat, solid, and level surface is recommended for proper calibration.

3. General Setup

1. Select Main Menu.
2. Select GS2 Pro icon.
3. Enter setup information under softkeys **G, H** and **I**.

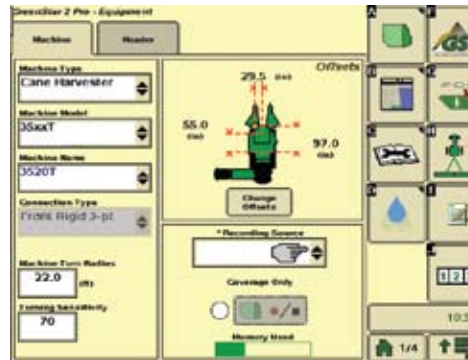
3.1 Softkey G – Resources



Under “Resources” enter the correct information for client, farm, field, task, and operator.

3.2 Softkey H – Machine Setup

Enter the required information for the Machine and Machine Offsets.



Enter the following offsets for “A”, “B”, “C”, and “D”.



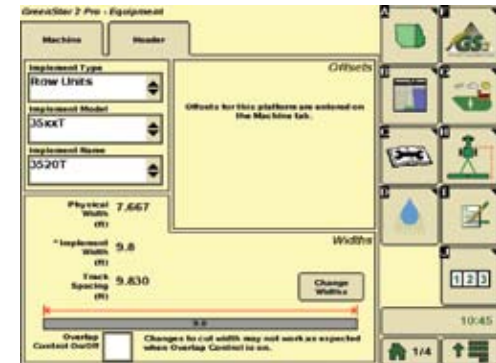
Note: When using one row Harvester to harvest a field that was planted with a two row Planter, a receiver offset will be required in order to use the same guidance lines. The receiver offset must be half of the row spacing width.

Example: A row spacing of 4.92 feet will require an offset of 29.5 inches for dimension “A”, preferably to the same side of the elevator (check section 6 for more details).

Note: Dimension “A” should be set at 0 when using (creating) new guidance lines.

3.3 Softkey H – Header Setup

Enter the required information for the Header.



Change Widths

Also enter proper Implement Width and Track Spacing under “Change Widths” button.

3.4 Softkey I – Harvest Settings Setup

Enter the required information for harvesting documentation (Crop Type, Brand, Variety, etc.) by selecting “Change Harvest Settings”.



Note: The GreenStar Display will not document field yield data.

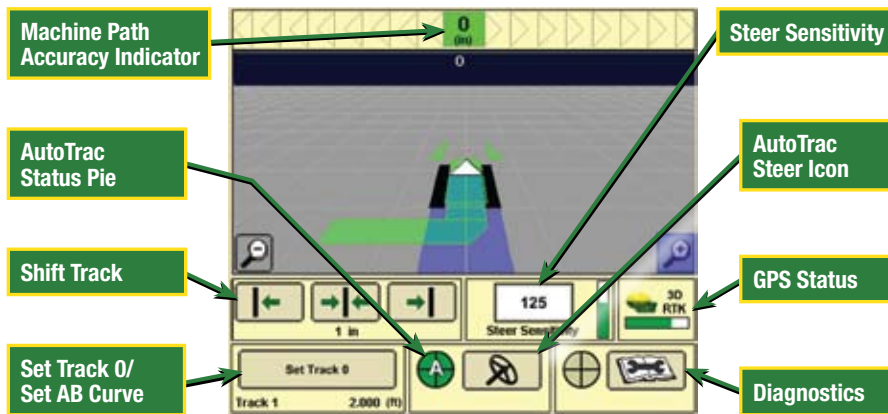
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4. New Guidance Line Setup

Select GS2 Pro Tab> Guidance Tab “B”> Guidance Settings> and then choose the tracking mode: **Straight, AB Curves, Adaptive Curves, or Circles.**

A. Guidance Lines Setup in Straight Tracking Mode:

1. Under View Tab select “Set Track 0”.
2. Name or choose the Current Track.
3. Choose **Method** of A/B line setup – A+B used as example.
4. Enter or confirm **Track Spacing.**
5. Set Point “A”.
6. Drive to the end of the pass, and then set point “B”.
7. Push the enter button.
8. Push the AutoTrac Steer Icon button to enable AutoTrac.
9. Push the Foot Resume Switch to activate AutoTrac.



B. Guidance Lines Setup in AB Curves Tracking Mode:

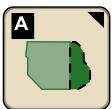
1. Under View Tab select “Set AB Curve”.
2. Name or choose the Current AB Curve.
3. Enter or confirm **Track Spacing.**
4. Use the **Recording** button to define the initial pass.
5. Use the **Stop** button to define the end of the pass.
6. Push the enter button.
7. Push the AutoTrac Steer Icon button to enable AutoTrac.
8. Push the Foot Resume Switch to activate AutoTrac.

C. Guidance Lines Setup in Adaptive Curves Tracking Mode:

1. Turn on the recording button, and keep it on during the entire operation.
2. Push the AutoTrac Steer Icon button to enable AutoTrac.
3. Push the Foot Resume Switch to activate AutoTrac.

Note: Passes will be projected based on the first or previous passes.

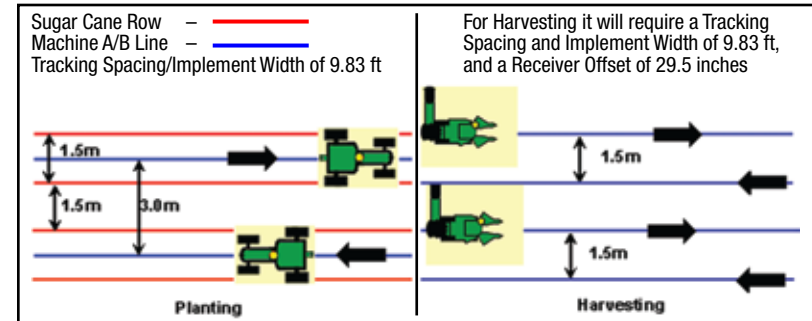
5. Coverage Map



To turn Coverage Map “on” select GreenStar 2 Pro Softkey> Select “A”> Select Map Settings> Select Foreground> then Coverage Only.

6. Procedure to Use Existing Guidance Lines and Receiver Offset

Typical setup needed when planting with **two rows Planter** and harvesting with **one row Combine.**



Notes: a) The tracking number will not increment every row when using existing guidance lines in this manner. b) Coverage map will be duplicated on the second pass. c) If the guidance line does not line up to the sugar cane row, the receiver offset needs to be set to the opposite side.

7. Troubleshooting Tips

1. AutoTrac is s-ing:

- a. Adjust AutoTrac Steer Sensitivity up (more aggressive) or down (less aggressive).
- b. For advanced tuning use the **Advanced Settings** feature located under Guidance Tab “B”> Guidance Settings.

Note: Refer to the GS2 Guidance Operator’s Manual for more details on Steer Sensitivity and Advanced Settings.

2. AutoTrac is overlapping or gapping (wide/narrow):

- a. Check TCM calibration.
- b. Check the machine and receiver offset dimensions.

3. Poor or no GPS Signal:

- a. Be sure the StarFire receiver has clear view of the sky, and is properly connected.
- b. Check for Satellite Availability and PDOP (Optimal PDOP below 2.5) using the Satellite Predictor at www.StellarSupport.com.

4. Loosing RTK signal:

- a. Check if the vehicle RTK radio has line of site to the RTK Base Station and is within the 12 mile range limitation.
- b. Be sure the vehicle StarFire receiver has clear view of the sky, and is properly connected and powered.
- c. Make sure the RTK Base Station has clear view of the sky and is properly connected and powered.

5. Shift Track:

If Shift Track was used on straight tracking mode, clear shifts after operation.

Note: Avoid using shift track when using AB and Adaptive Curves tracking modes.

6. Diagnostics:

Check AutoTrac diagnostics pages in case of poor performance or functional issues.