

Tips for operating iTEC Pro and Swath Control Pro Simultaneously

Increasing productivity and efficiency is the name of the game in today's production agriculture. iTEC Pro and Swath Control Pro are two products that provide instant crop input savings, more accurate machine control, and increased productivity throughout the season.

With the introduction of these two new products, John Deere AMS would like to share some tips that allow customers to obtain the most from these two products when operated simultaneously.

Platforms compatible with simultaneous operation for the 2008 season:

- Must be an 8030 series wheel tractor operating in combination with a GS 2 Rate Controller utilizing Swath Control Pro for one of the following applications
 - Pull-Type Sprayer
 - Anhydrous Ammonia Applicator
 - Liquid Fertilizer Applicator
 - Planter Section Control

iTEC Pro is designed to automate vehicle and implement movements while operating in the field environment. Swath Control Pro is designed to precisely control machine functions based on accurate GPS positions, all while reducing fatigue, accurately placing inputs, and increasing productivity.

Tip # 1. First setup Swath Control for the vehicle and implement you are operating. Swath control has split second reaction times based on hydraulic or electrical system reactions and will provide the best solution for controlling product flow and machine functions.

Tip # 2. Once Swath Control is accurately set, program the sequence for iTEC Pro to take place shortly after Swath Control has initiated an implement command when entering the headland (or entering into an already covered area). When exiting the headland, setup iTEC Pro so that the implement is lowered into the working state prior to leaving the coverage area. This will ensure that Swath Control can react at the exact times necessary and the implement is already in its field working position.

Tip # 3. A Starfire iTC receiver operating with SF2 or RTK level corrections is highly recommended to maximize precise machine control.

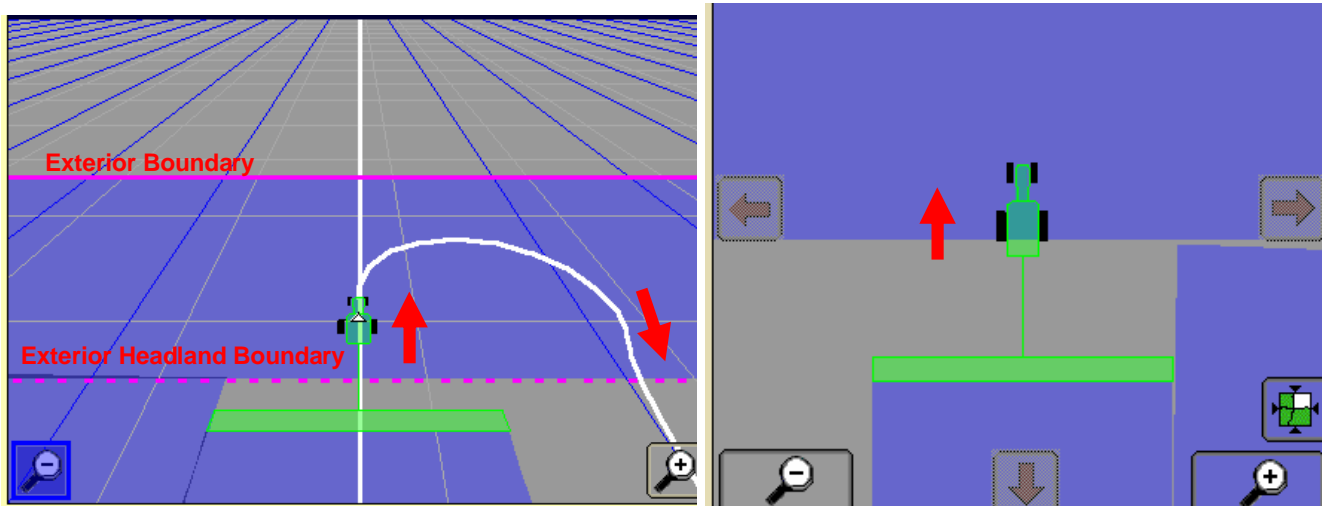
Example Setup - 8530 Tractor and 24 Row Planter with Section Control (see pictures)

Scenario - Headlands are already planted with adequate distance for iTEC Pro to perform a turn sequence and coverage already exists on the headland due to being previously planted. As the tractor and planter enters the headland, Swath Control Pro will send the command to turn off the planter rows based on the coverage map, shortly there after the iTEC Pro sequence begins and lifts the planter and turns the unit into the next pass. As the tractor and planter exits the headland, iTEC performs the sequence and the planter engages the ground 5 ft. prior to leaving the headland coverage. As the planter crosses the headland coverage, Swath Control commands the row units to engage and start planting as the planter crosses the coverage zone coming into the pass.

The following pictorial example is of an 8530 Wheel tractor and 1770 Planter utilizing the GS 2 Rate Controller for planter section control.

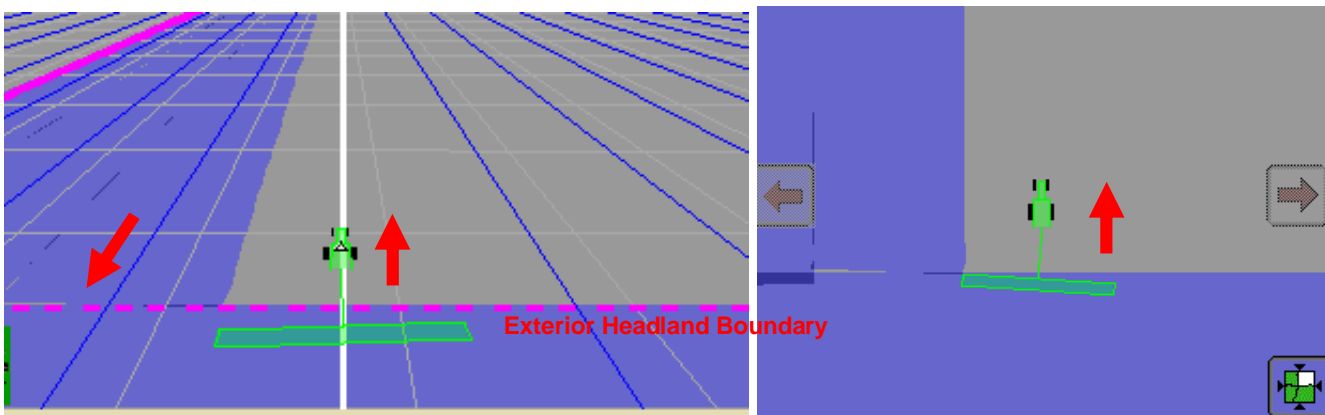
Entering the headland

The following two pictures show the tractor and planter entering the headland getting ready to make the turn. The planter should remain in the down/working position until it completely crosses into the blue headland coverage area. This will ensure that Swath Control is able to react correctly and turn off the row units of the planter in this example before the planter is raised.



Exiting the headland

The following two pictures show the tractor and planter exiting the headland. Ensure the planter is fully lowered/in the working position prior to leaving the headland coverage zone. This will ensure that Swath Control Pro will be able to correctly and accurately manage the engagement of the seed meter clutches to begin seeding as the planter crosses the coverage zone.



Keep in mind that any distance measurement changes made to the machine and implement setup pages will directly affect the reaction points of Swath Control and iTEC Pro.

Boundaries

- iTEC Pro **DOES** require accurate boundaries for operation
- Swath Control Pro **does NOT** require boundaries for operation
 - It's highly recommended to have boundaries for Swath Control Pro operation but they are not required. Swath Control works off of the previously covered swath area.

Guidelines for installation and setup of Swath Control Pro for Planters:

- The total number of sections Swath Control Pro is currently capable of controlling is 12 sections. Configuring more than this could cause performance issues during field operations.
- To ensure system accuracy, each section should be at least 60 in. wide.
 - (Example: Two rows on 30-in. spacing or three rows on 20-in. spacing)
- **To ensure system accuracy, SF2 or RTK is highly recommended when using Swath Control Pro for planters. Customers utilizing SF1 GPS corrections will see a decrease in positional accuracy response, particularly at higher speeds. It is the customer's discretion if this is deemed acceptable in row crop conditions.**