Release Bulletin

Product: Outback eDriveX
Subject: eTurn Operation
Date: 12/16/2010
Technical Support, Agriculture Business Unit

With the recent update for S3 and eDriveX (S3 v. 3.16/ ECU v. 14069), Outback Guidance is introducing a new feature called eTurns. This feature automates the headland turn process to shorten line acquisition times and lessen operator fatigue. The following instructions explain the steps for eTurn operation.

1. Calibration for the eTurn process: Before utilizing the eTurn feature, a proper calibration must be completed to account for the implement. Press the "Calibrate" button in the Auto menu to get started. Turn at the prescribed on screen speed and drive the smallest circle possible to the left for the implement you are using. Press the "Start" button and complete the circle until prompted to change directions.
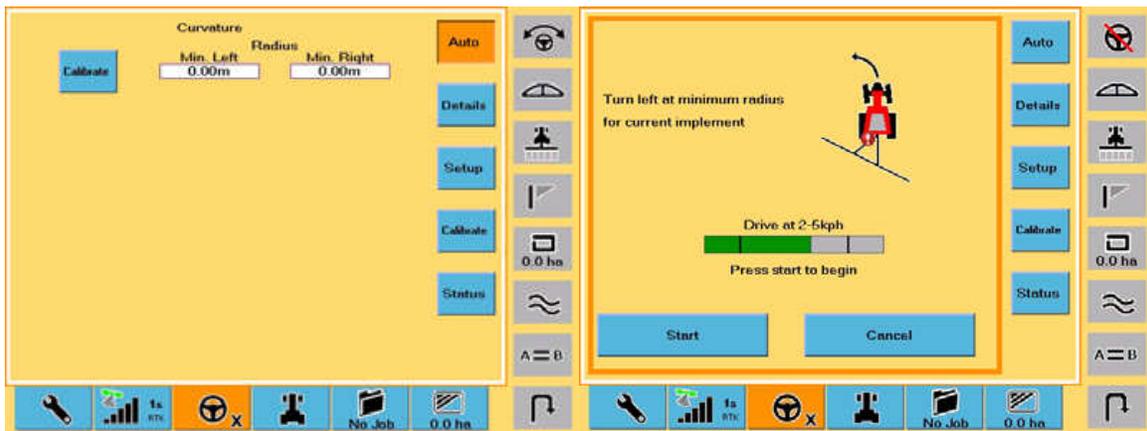
2. After completing the same process for the right turn, a screen will display the resulting minimum radius values.

1/5/2011
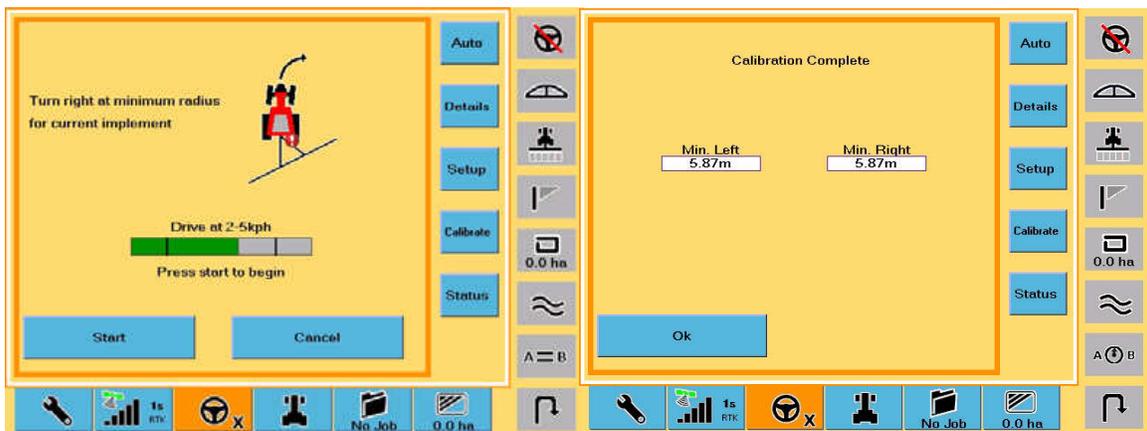
3. After completion of the Calibration, The following will need to be set for your specific operation:

   a. Speed- This should be set to the speed in which the turns will be driven. (Making a turn faster than this value will result in the eTurn function being disabled.)
   b. Skip Rows- This will tell the system whether you want the automated turn to take the next pass, skip a pass, (or any number of passes) or to turn back on the current pass.
   c. First Turn- This sets the turn direction for the first automated turn. Each turn after that will result in the direction alternating on each turn.
   d. Headland Distance- This is a value in seconds before reaching the headland in which the headland prompt menu will appear to activate the automated turn. (A larger value will result in the headland prompt being activated sooner and vice-versa.)
   e. Headland Prompt- Turning this on allows the automated turn process to be initiated when approaching the 'Headland'. Turning this off forces the user to manually select the eTurn button when an eTurn is desired.
   f. Run Time Menu- Turning this "ON" prompts the "Autoturn Inputs" set-up menu to be displayed allowing the user to re-define speed, turn direction and next row before displaying the "Autoturn Control" window. Turning this "OFF" will result in the system skipping the "Autoturn Inputs" menu and showing the "Autoturn Control" menu without the option to change speed, skip rows or turn direction.

4. To perform an eTurn manually, press the eTurn button on the bottom right hand corner of the screen. If you have the Run time menu on, the following menu will be displayed. (Note: If the Run Time Menu is turned off, this menu won't be visible; the system will immediately show the Autoturn Control menu allowing the user to go ahead with the automated turn.)

eTurn Button

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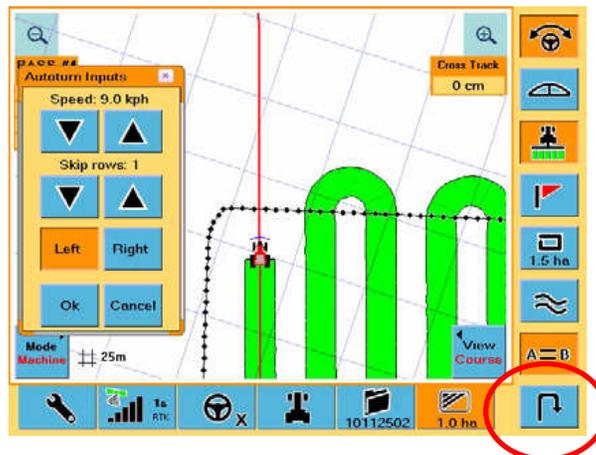
5. Once the Speed, Skip rows, and turn direction are set to the user's preference, Press OK to prompt the "Autoturn Control" pop-up window. Pressing "Go" will activate the automated turn.
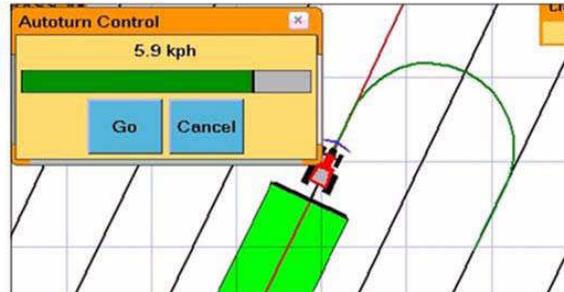
6. To take advantage of the Headland Prompt feature, ensure that Speed, Skip rows, Headland Distance and the first turn direction are pre-set in the "Auto" menu, make sure Headland Prompt is turned on, and either set a boundary line or headland pass in the field that will activate the pop-up menu for turning. Once you drive within the "Headland Distance" proximity, the system will automatically display the "Autoturn Control" menu to activate the automated turn.