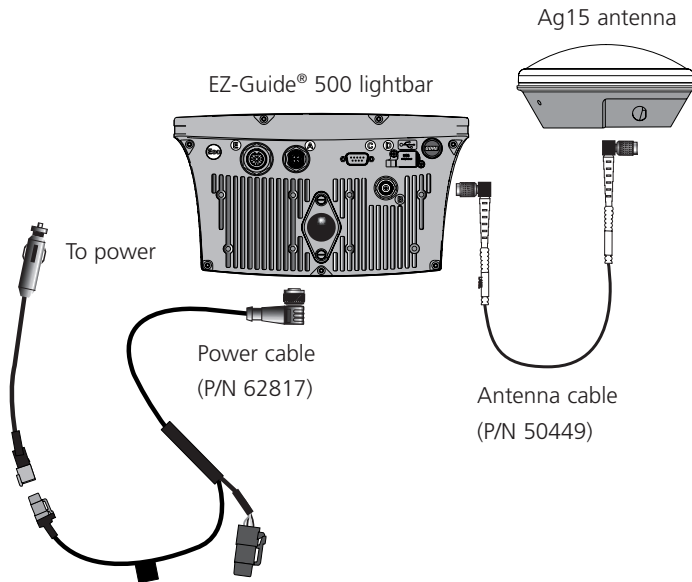


# EZ-Guide® 500 Lightbar Guidance System

## Quick Reference Card

### CONNECTING THE SYSTEM

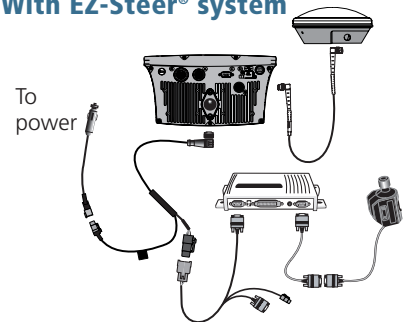
#### Standard system



#### With keypad



#### With EZ-Steer® system



### LIGHTBAR LAYOUT

#### Offline guidance LEDs

When the vehicle is online, the center three green LEDs are lit. When it is offline, the lit LEDs move to the side.

#### Function buttons

These buttons perform the functions indicated by the icons.

#### Swath lines

The current swath is red. Adjacent swaths are blue. Swath numbers are displayed at the bottom of the screen.

#### Tip bar

Provides information on how to use the system.

#### Vehicle icon

Shows the vehicle position and heading relative to the current swath.

#### ESC button (back of unit)

Cancels changes and moves up one level.

#### Buttons: OK, Up, Down

The arrow key highlights an icon and the OK button selects it.

#### Coverage logging and overlap

Coverage is displayed when a spray switch is on, when the coverage function button is enabled, or when an autosteering system is engaged.



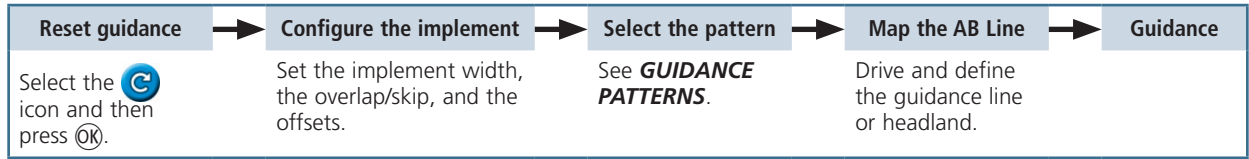
Keep the lightbar dry. Moisture may cause electrical damage and will void the warranty.

# EZ-Guide® 500 Lightbar Guidance System

## Quick Reference Card

### EASY MODE APPLICATION USE

**Easy mode** enables you to access basic guidance more quickly. It is the default operation mode.




**Note** - If you select the **A+** pattern, you are prompted to enter the heading of the master guidance line. If you select the **Headlands** pattern, you are prompted to select the number of headland circuits.

### Built-in Help




























The lightbar has a built-in help system. To view it, press the  button.

### Quick Start Wizard

By default, the Quick Start Wizard appears every time you turn on the EZ-Guide 500 lightbar. It enables you to confirm or change important system settings before you begin working.

To cancel the Quick Start Wizard and go directly to guidance, press .

**Note** - On the last screen in the Quick Start Wizard, you can choose to hide the wizard during future startups.

Function (left side)		Action (right side)		Field definition (right side)	
Icon	Description	Icon	Description	Icon	Description
	Display information tabs		Reset guidance	 	Set Point A and Point B
	Display built-in help	 	Nudge guidance line left and right	 	Start and finish headland
	Turns on or off coverage logging		Shift to here (Advanced mode only)		Pause curve logging (record a straight line segment)
	Return to map view (Menu and wizard screens)		Change zoom level		Next AB Line
	Return to previous menu (Menu screens)	 	Pause, and get guidance back to the pause position		Recording FreeForm curve
	Cancel changes (Edit screens)		Display panning icons (Advanced Mode Only)		Not recording FreeForm curve
	Go back to previous screen (Wizard screens)		Display Mapping icons (Advanced mode only)		
	Go to next screen (Wizard screens)		Change views (Advanced mode only)		
			Go to configuration menu		







# EZ-Guide® 500 Lightbar Guidance System

## Quick Reference Card

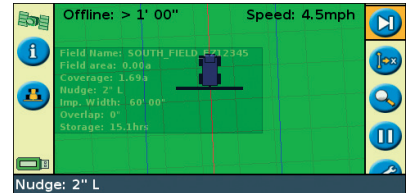
### DISPLAY FEATURES

#### Status Indicators


On the main guidance screen, there are two status indicators:

Icon	Satellite status (top left)	Icon	USB drive status (lower left)
	Good signal		Connected and ready
	Signal outside acceptable settings		Loading
	No signal		USB disabled

If a USB drive is not connected, the USB icon does not appear.




#### Information Tabs

To display field, GPS, or other system information on a transparent tab, press the  button on the left of the lightbar. Press the button again to cycle to the next tab.

#### Views

Plan view	Perspective view	By default, the view automatically switches to the perspective view when you enter a field. To set the view so it switches when you engage an autosteering system or for manual view control, in Advanced mode select <b>Configuration / System / Display / View</b> .

### MAPPING

To enter mapping mode, select the  icon and press OK. While in mapping mode, you can:





- map point, line and area features, including exclusion zones for EZ-Boom
- engage and disengage EZ-Steer
- operate EZ-Boom but no boom status indicators are shown

**Note:** Mapping is disabled if you do not have good quality GPS.

Mapped features are saved with the field. To see mapped features when you return to a field, reload the field and start a new event or continue with an existing event.


To configure mapping options, including warning zone distance, recording position, deleting features, select **Configuration / Mapping**.

To map a point feature, select  and then one of the following icons:

Rock 	Tree 
Weed 	Generic Point 

To map a line feature, select  then:

Generic Line 
--

To map an area feature, select  and then one of the following icons:

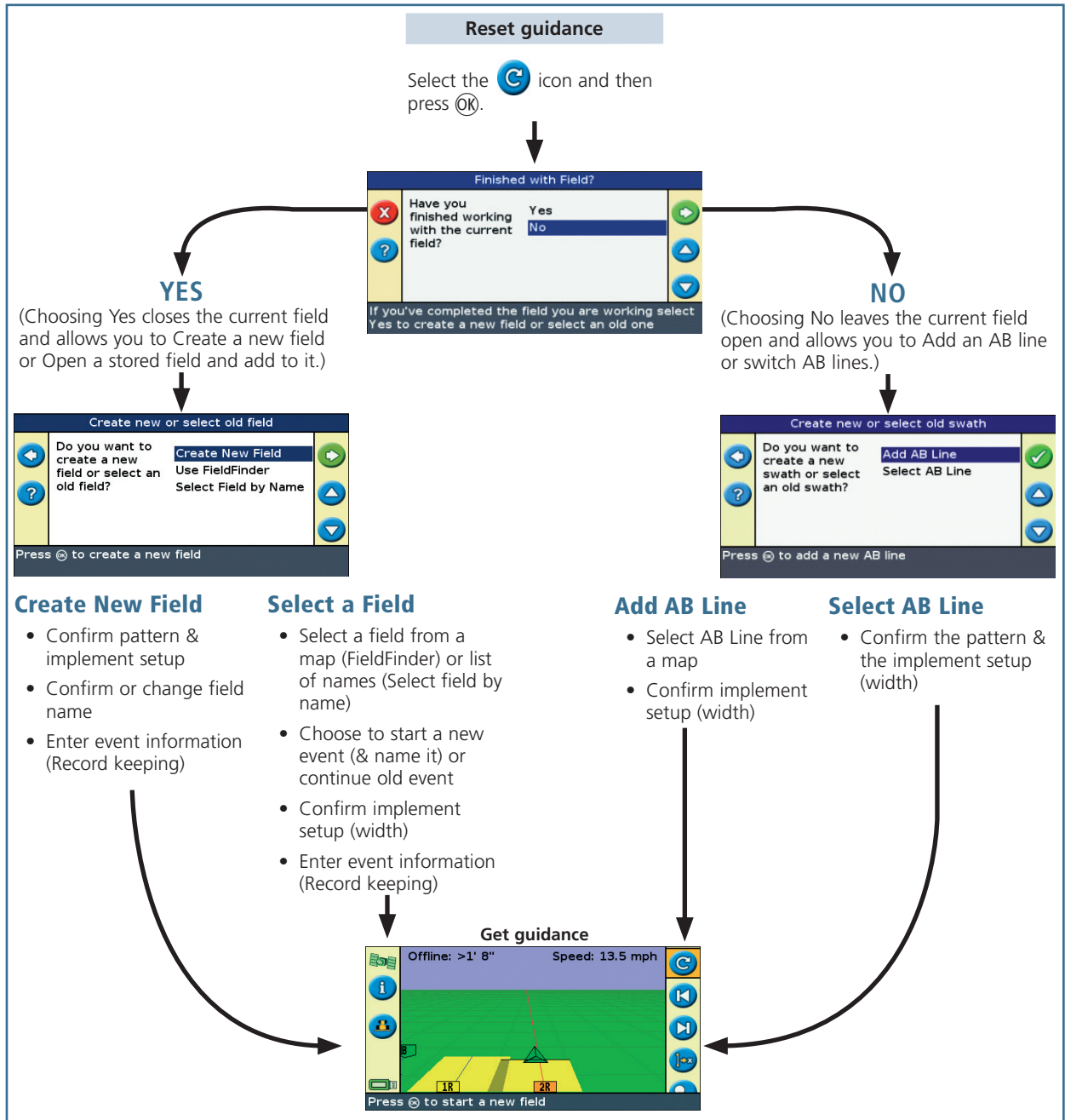
Generic Area 	Exclusion Zone 
--	--

To delete the closest feature, select the delete icon:

Delete 
--

# EZ-Guide® 500 Lightbar Guidance System Quick Reference Card

## ADVANCED MODE APPLICATION USE



# EZ-Guide® 500 Lightbar Guidance System

## Quick Reference Card



### ADDITIONAL ADVANCED MODE FEATURES

Change the EZ-Guide 500 lightbar to Advanced mode to use any of the following functions, not provided in Easy mode. To change to Advanced mode, select **Configuration / User mode**.

- Enter custom Client, Farm, Field, and Event names and record detailed event information for each operation
  - Add additional AB Lines to the field
  - Select existing fields to go back for subsequent applications
  - Shift swaths to correct for position drive or to offset swaths in following years. For more information, see **Nudge** or **Shift to Here**.
  - Configure GPS settings. Select **Configuration / System / GPS**.
  - Configure display settings and view options. Select **Configuration / System / Display**.
  - Configure implement settings, including implement offsets and draft
  - Use the AgGPS® Autopilot™ system. For more information, refer to the Autopilot documentation.
  - View GPS and satellite information and system faults. Select **Configuration / Status**.
  - Save and load configurations so you can:
    - use exactly the same settings on multiple lightbars
    - change settings when you move the lightbar between vehicles for different applications
- Select **Configuration / Data Management / Save/Load Configurations**.
- Send data to a USB so you can use field data in other lightbars
  - Delete old data to clear space in internal memory
  - Load prescriptions for use with the AgGPS EZ-Boom® system when the optional VRA upgrade has been purchased.

#### Nudge



Use the  and  nudge buttons to correct for position drift caused by GPS satellite constellation changes while driving in the field. Nudge is always applied to the guidance line relative to the vehicle heading. The total current nudge distance appears on the tip bar at the bottom of the screen.

To configure the nudge options, in Advanced mode, select **Configuration / System / Guidance**.

#### Summary report

A summary report is automatically created for each field. The summary report is a multi-page RTF document that shows field information including coverage, event data, and field information.

The summary report is automatically saved to the lightbar memory. To copy this report to the USB drive, select **Configuration / Data Management / Manage Fields / Summary Reports / Send Summary reports to USB**. The summary report is saved to the **/AgGPS/Summaries/** directory on the USB drive.

To view the summary report on an office computer:

1. Insert the USB drive into an office computer.
2. Select the **/AgGPS/Summaries/** folder.
3. Double-click the appropriate RTF file.
4. If you want to save the summary report, copy it to a folder on the office computer.

**Note:** To view the graphics in the file, you may need to install the Microsoft® Word Viewer utility from the documentation CD.

#### Shift to Here

In Advanced mode, you can use Shift to Here  to:

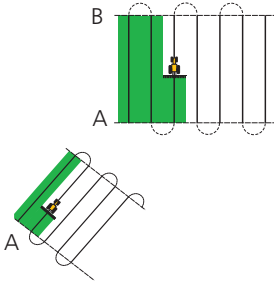
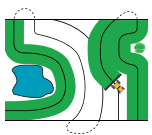



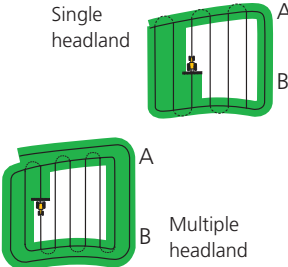
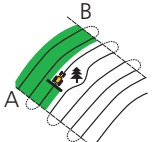
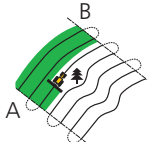
- Correct for GPS position drift when returning to the field for guidance, for example after pausing
- Offset all swaths for applications in subsequent years

You can save the shifted swaths, which nudge does not allow.

# EZ-Guide® 500 Lightbar Guidance System

## Quick Reference Card

### GUIDANCE PATTERNS

<p><b>AB Line / A+ Line</b></p> <p>Map a straight line for guidance.</p> <p>For an AB line, set the A point at the start of the line and the B point at the end.</p> <p>For an A+ line, specify the heading direction of the line (it defaults to the heading of the previous AB line).</p> 	<p><b>FreeForm™</b></p> <p>Creates curved and straight lines for guidance in fields of any shape by recording the exact path you have driven, to generate the next pass. Ensure that you keep recording your path, to continue receiving guidance.</p>  <p>You can record your path manually or let the system record it automatically (when coverage is enabled).</p> <p>When more than one path is in the area, use the Next AB icon  to toggle between them.</p>
<p><b>Center-pivot</b></p> <p>Set the A point, drive the pivot, and then set the B point.</p> <p>For best results, follow the outermost wheeltrack of the pivot arm.</p> <p><b>Note - To work from the center of the field outwards, the initial pivot must have a radius of at least two swath widths and an arc length of at least four swath widths.</b></p> 	<p><b>Headland</b></p> <p>Straight swaths automatically fill the headland boundary.</p> <p>Enter the number of headland circuits you want before you start defining the field.</p> <p>Start the headland, define the guidance line, and then return to the start circle or press  to complete the headland.</p> <p><b>Note - Additional headlands are based on the first headland circuit.</b></p>  <p>Single headland</p> <p>Multiple headland</p>
<p><b>Identical curve</b></p> <p>Guidance is based on the initial curve. Any deviations are ignored.</p> <p>Set the A point, drive the curve, and then set the B point.</p> 	<p><b>Adaptive curve</b></p> <p>Guidance is always based on the last pass.</p> <p><b>Auto U-turn detection = On</b></p> <p>Each new swath is automatically generated when you turn.</p> <p><b>Auto U-turn detection = Off</b></p> <p>Set the B point at the end of each pass to create the next swath.</p> 

For more information on how to use this product, refer to the **EZ-Guide 500 Lightbar Documentation CD**.



P/N 66020-84-ENG

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