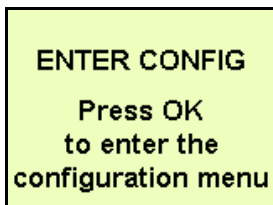


# EZ-Guide® Plus Lightbar Guidance System Quick Reference Card


## LIGHTBAR DISPLAY SCREENS

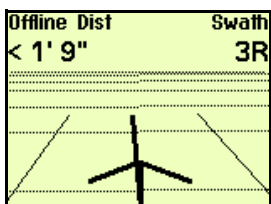
The EZ-Guide® Plus lightbar LCD screen has five views. To change the view, press ▲ or ▼.

The views appear in the following order:



### Enter Config

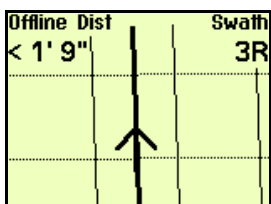
Access configuration menus. Or press  on the remote control.



### Perspective map

Perspective view of the field, current swath, and vehicle. The view automatically changes to Plan view when you pass the end of a swath. By default, it displays horizontal progress lines. You can turn this off using the *Display Config* configuration screen.

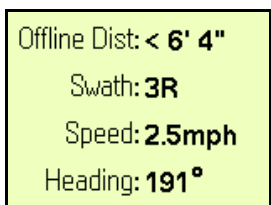
It also displays two status text options. You can configure the text using the *Status Text* configuration screen.



### Plan map

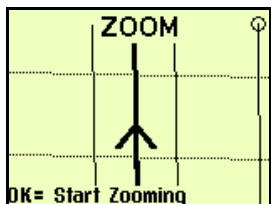
A "bird's eye" view of the field. It displays horizontal progress lines and two status text options (as for perspective view). This is the default screen when you:

- define the field
- pass the end of the swath
- are offline by more than half a swath
- pause guidance





### Status



Displays four status text options. You can configure the text using the *Status Text* configuration screen.



### Zoom

Increase or decrease the zoom view of the vehicle. To enter the zoom mode, press . Or press  on the remote control.

To change the zoom scale, press ▲ or ▼.

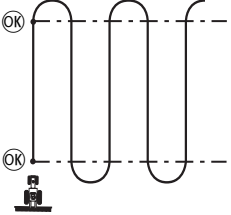
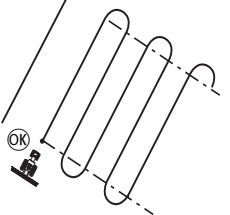
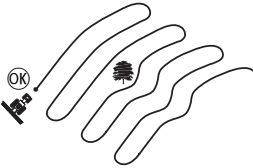
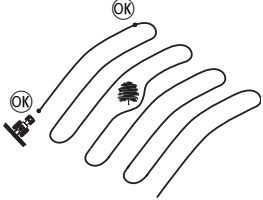
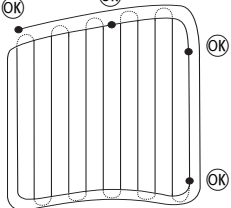
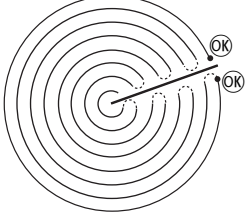
To stop zoom, press , or press  to return to a map view.

While you are defining a field, or while EZ-Guide Plus is paused, the map views auto-zoom. If you adjust the zoom scale while in the lightbar is in these states, the new zoom scale is applied once auto-zooming is complete.

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

## GUIDANCE

The following table shows the options for swath pattern guidance.

<p><b>AB Line</b></p> 	<p><b>A+</b></p> 
<p><b>Adaptive curve</b></p> 	<p><b>Identical curve</b></p> 
<p><b>Headland</b></p> 	<p><b>Center-pivot</b></p> 

## Using guidance

### Resetting guidance

To reset guidance, from a map or the status screen, press **OK**. The *Guidance Pattern* menu appears. Press **▲** or **▼** to change the pattern, then press **OK**.

### Changing swath width

After you have selected a pattern, the *Swath Width* screen appears. To edit the value, press **▲** or **▼**. To accept the value, press **OK**.

### Defining the field

Press **OK** to map the start (Point A) and end (Point B) of a straight swath, curve swath, or headlands.

### Getting guidance

After you have defined the field, turn left or right for the next swath. The next swath is automatically selected. Steer the vehicle so that you center the green lights in the lightbar as you drive forward along the swath.

### Approach indication

When you have passed the end of the swath/headland, the message **IN HEADLAND** flashes on the screen. For advance warning when you approach the headland, configure a lead time in the *Headland Warning* configuration screen.

### Pausing guidance

To pause guidance (for example, to refill chemical tanks or to refuel) or to resume guidance, select the *Pause / Resume* configuration option. Or press **⏸** on the remote control.

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

## CONFIGURING THE SYSTEM

Step 1	Step 2	Step 3	Step 4
To display the configuration menus, press ▲ or ▼ until the <i>Enter Config</i> screen appears. Then press Ⓚ.	To enter a configuration screen, press ▲ or ▼ until the required option is highlighted. Then press Ⓚ.	To change a value, press ▲ or ▼. To accept a value, press Ⓚ.	To exit the configuration menus, select the <i>Return to Guidance</i> option at the top of the <i>Config</i> menu.


## Configuration options

Option	Description
Pause / Resume	Pause or resume guidance.
Display Config	Turn on or turn off screen items, such as progress lines, field boundary, or adjacent swath lines.
Contrast/Brightness	Adjust the screen contrast and backlight brightness. Adjust the lightbar LED brightness.
LED Mode	Chase - Chase the lights to stay online. The lights represent the swath location relative to the vehicle. Pull - Center the lights to stay online. The lights represent the vehicle location relative to the swath.
LED Spacing	Distance represented by one LED.
Headland Warning	Turn on or turn off the headland warning. Configure the warning leadtime.
Offline Warning	Distance off-swath at which the offline warning message appears. Set to zero to disable the warning.
Antenna Offset	The distance from the antenna to the implement.
Look Ahead	Look ahead time in seconds. Use this to allow for reaction time and vehicle turn speed. For example, at 8-15 mph, set the look ahead time to 2 seconds. Increase the look ahead time for larger vehicles that take longer to turn.
Lightbar Mount	Upright Inverted - Inverts the display and offline LEDs.
Status Text	Configure the status text items for the map views and the Status screen.
Data Port Settings	Configure the input and output for the data port.
Low Acc Warning	High Acc Only - Accept only high accuracy positions. Warn Low Acc - Accept all positions, but warn when low accuracy. No Warning - Accept all positions, including less accurate positions, without warning.
Audible Warning	Turn on or off the audible warning alarm.
Units	US - Feet, miles per hour, acres. Metric - Meters, kilometers per hour, hectares.
Language	Configure operating language for the system.
GPS Diagnostics	Display GPS receiver status, and diagnostic information.
About	Display lightbar version information.
Defaults	Return all configuration settings to factory defaults.

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

## WARNING MESSAGES

The following table describes the warning messages that may flash on the screen.

Warning message	Possible cause	Solution
<b>NO GPS POSITIONS</b>	The antenna is not connected to the lightbar.	Connect the antenna to the lightbar or to the external GPS receiver.
	The antenna, antenna cable, or GPS antenna connection is faulty.	From the configuration menu, select GPS Diagnostics. Press  . If the <i>Antenna Feed</i> option displays <i>None</i> , there is a problem with the antenna, antenna cable, or the GPS antenna connection.
	The external GPS receiver is not connected to the lightbar.	Connect the external GPS receiver to the data port on the lightbar.
<b>TOO FEW SATS</b>	Part of the sky is blocked from the view of the antenna.	Move to a location where you have a clear view of the sky. Make sure that the antenna is not obstructed.
<b>INVALID GPS</b>	The external GPS receiver is not outputting NMEA GGA messages.	Configure the receiver to output NMEA GGA and VTG at 5 Hz.
<b>LOW ACCURACY No Corrections</b>	The receiver is not getting correction signals.	Move the vehicle away from trees and/or buildings.
<b>NO GUIDANCE Low Acc: No Corrections</b>		Or, change the Low Acc Warning option to <i>No Warning</i> to enable guidance without corrections.
<b>LOW ACCURACY High HDOP</b>	The Horizontal Dilution of Precision (HDOP), which is a measure of accuracy, is too high.	Move the vehicle away from trees and/or buildings.
<b>NO GUIDANCE Low Acc: High HDOP</b>	HDOP is affected by the relative position of satellites in the sky. If a portion of the sky is blocked from view, the HDOP may increase.	Or, change the Low Acc Warning option to <i>No Warning</i> to enable guidance with a high HDOP.
<b>LOW ACCURACY Old Correction</b>	It is a long time since the receiver got a correction signal.	Move the vehicle away from trees and/or buildings.
<b>NO GUIDANCE Low Acc: Old Correctn</b>		Or, change the <i>Low Acc Warning</i> option to <i>No Warning</i> to enable guidance without corrections.
<b>HEADLAND!</b>	You are approaching the end of the swath and have passed the Headland Warning limit.	If you do not want advanced warning of your approach to the headland, turn off the <i>Headland Warning</i> leadtime.
<b>IN HEADLAND</b>	You have passed the end of the swath.	Turn around and drive down the next swath.
<b>OFFLINE</b>	You are offline by more than the <i>Offline Warning</i> distance.	Steer the vehicle closer to the current swath.

## ADDITIONAL INFORMATION

The remote control is an optional accessory, which you can purchase separately from Martens Farms at 877.585.6761. To add full mapping, scouting, data logging and VRA, ask about adding Farm Site Mate and an iPAQ Pocket PC.

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