

EZ-Steer™ Assisted Steering System

F A C T S H E E T



Work smarter, not harder!

Remember when you thought power steering made your life easier? Just wait until you try Assisted Steering! Ag Leader's EZ-Steer assisted steering system does the work for you by automatically steering your vehicle through the field, allowing you to focus on other tasks such as implement performance, or boom control, while greatly reducing driver fatigue.

The EZ-Steer System uses guidance from the EZ-Guide Plus Lightbar and automatically turns the steering wheel for you. The EZ-Steer system is perfect for tillage, spreading, spraying, and harvesting operations. For higher accuracy applications such as planting, couple the EZ-Steer system with the GPS 5100 receiver and OmniSTAR® XP or OmniSTAR® HP™ differential corrections.

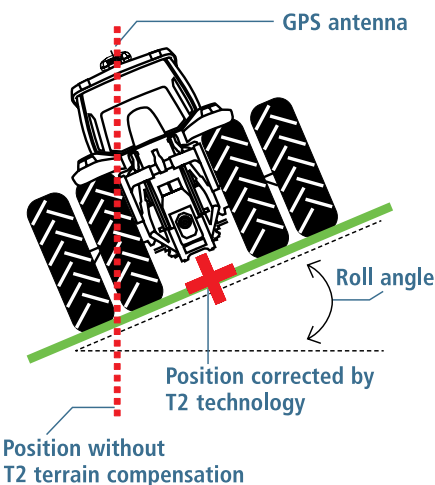
EZ-Steer system. It's as simple as driving your first pass and then sitting back and letting the EZ-Steer system take over the duties across the rest of the field. When you get to the end of the pass, simply turn the wheel and EZ-Steer will disengage, allowing you to turn into your next pass and repeat. You'll never believe how EZ it can be!

New! T2™ Terrain Compensation Technology

Ag Leader's exclusive T2™ Terrain Compensation Technology gives the EZ-Steer user +/- 6 – 8 inch pass-to-pass accuracy and smooth hands-free driving on rolling, sloping and rough terrain such as ditches, waterways and terraces. Even on flat, smooth ground the T2 Terrain Compensation Technology provides remarkable improved accuracy and operation. This optional feature uses two accelerometers and two gyroscopes to compensate for roll and yaw information from these sensors, located in the steering controller, is used at 10 times per second to compensate the GPS position for sloping and rough terrain – as illustrated by the diagrams.

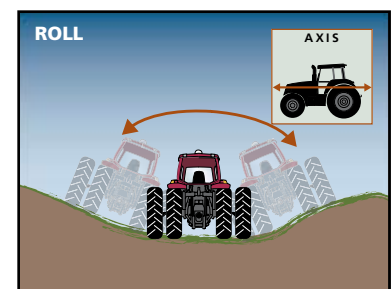
T2 Terrain Compensation Technology

Improves accuracy when driving straight lines across sloping or rough terrain by minimizing skips and overlaps.



Simple and affordable

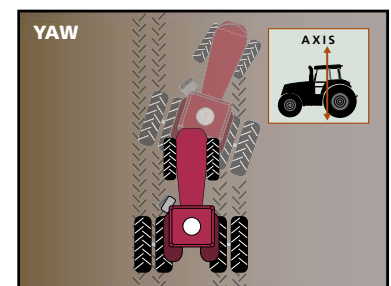
The simplicity of the EZ-Steer System makes it the most affordable system on the market today. The Electronic Motor Drive (EMD) takes the complexity and expense of traditional hydraulic automated steering systems out of the equation. While other systems require you to integrate into vehicle hydraulic systems, the EZ-Steer system can be quickly installed and transferred between vehicles by simply bolting to the steering column. Installation can be done in most applications in less than 15 minutes and only requires one wrench.



Roll: Slopes and Bumps

Functional

While the EZ-Steer system is simple and inexpensive, it's certainly not lacking features. The EZ-Steer system is capable of performing both straight line and contour guidance. Many assisted/automated steering systems on the market today lack contour guidance. The EZ-Steer system has it today! The benefits of assisted steering really shine when performing contour guidance in conjunction with the



YAW: Heading



EZ-Steer™ Assisted Steering System

F A C T S H E E T

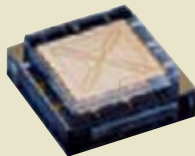


Sensors

With accelerometers and gyroscopes the slope and the change in slope can be accurately measured. The system measures a bump, such as ditches, rocks, or a change in hillside slopes, and then compensates the vehicles position accordingly. The gyroscopes and accelerometers that Ag Leader uses are very accurate and work in extreme temperatures.

Accelerometer

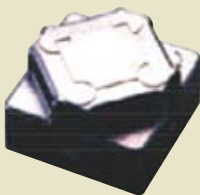
The accelerometer determines the angle of inclination by measuring the direction



towards the center of the earth using gravitational pull. By measuring the direction to the center of the earth, the vehicle's tilt can be determined and the correct compensation factor applied to the GPS position.

Gyroscope

The gyroscope measures the speed that the angle changes. This is done by measuring minute oscillations of a silicon ring and then calculating the changes to the oscillations when the gyroscope is rotated around its axis.



Contact Information:

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Key Features

- ▶ Installation in minutes on most agricultural vehicles with power steering
- ▶ No hydraulics involved
- ▶ 6 - 12 inch 15 minute pass-to-pass accuracy with EZ-Guide Plus Lightbar with Integrated GPS Receiver
- ▶ 2 - 4 inch 15 minute pass-to-pass accuracy with GPS 5100 receiver using Omnistar HP correction service.
- ▶ Suitable for tillage, spreading, spraying, harvesting, and planting applications
- ▶ NEW! T2™ Terrain Compensation Technology
- ▶ NEW! EZ-Calibration Wizard
- ▶ NEW! Freeplay™ Technology to compensate for "slack" in the steering hydraulics and linkage
- ▶ Compatible with other GPS receivers, such as John Deere Starfire™, that output 5hz NMEA messages
- ▶ Compatible with data logging devices such as Ag Leader's Insight display

Supported Vehicle Types

(over 350 different models and growing)

- ▶ Tractors
 - ▶ 2 wheel drive
 - ▶ Front-wheel assist (MFWD)
 - ▶ 4WD articulated
 - ▶ Tracked
- ▶ Sprayers
- ▶ Combines
- ▶ Floaters
- ▶ Trucks

See www.agleader.com/ez-steer.htm for specific models.

Pricing

- ▶ \$4,395 – EZ-Steer System with T2
- ▶ \$3,495 – EZ-Steer System without T2
- ▶ \$ 995 – Upgrade existing EZ-Steer System to T2

Required Equipment



EZ-Guide® Plus

The EZ-Guide Plus Lightbar provides the interface to the EZ-Steer System.

The EZ-Guide Plus comes standard with an integrated sub-meter WAAS receiver or can be purchased without GPS for connecting to other receivers such as the GPS 5100.

For more information see:

www.agleader.com/ez-guide.htm

Optional Equipment



GPS 5100 Receiver

The GPS 5100 System expands the accuracy and correction options of the EZ-Guide Plus

System. This system allows the use of WAAS, OmniSTAR XP, OmniStar HP, and RTK correction services.

For more information see:

www.agleader.com/ez-guide5100.htm

Not all GPS Guidance and Steering Products are Created Equal

Some Products:

Only have one accelerometer for tilt correction and, as a result, do not compensate for rough terrain and can only adjust for gradually changing slopes

Have one gyroscope, limiting their ability to compensate for rough ground and changing slopes

Use only two vertical GPS positions to correct the roll of the vehicle. By using the two GPS positions, that are only accurate to +/- 1.5 inches, it is difficult to accurately obtain the angle measurement required to calculate the compensation for sloping terrain

See Your Local Ag Leader Dealer for a free Demonstration!