

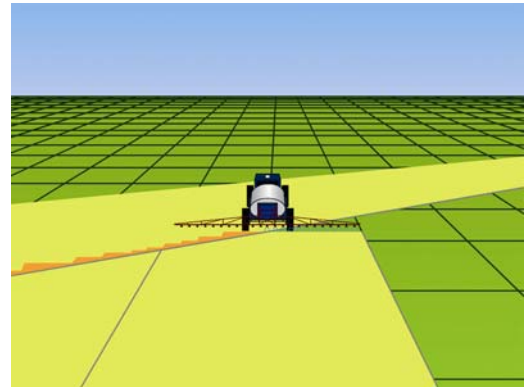


13 November 2006

AgGPS EZ-Boom 2010 Automated Application Control System

What is EZ-Boom 2010?

The AgGPS® EZ-Boom™ 2010 system is a group of components that automatically controls up to 10 separate boom sections to minimize overspray and untreated gaps on angled end rows, terraces, waterways, and other no-spray areas within a field. The system also automatically calculates total applied area, so that the applicator knows exactly how much spray has been used. This provides precise application with less operator fatigue than manual switching.



The EZ-Boom system also ensures accurate rate control throughout the field to minimize over- and under- application. The flow rate is controlled as the system receives signals from supported flow meters and quickly adjusts the flow control valve accordingly. And, by using GPS to determine ground speed, the need for ground radar is eliminated. All these factors combine to help reduce stress on the operator and to ensure the best-possible application job.

What Trimble products does the EZ-Boom 2010 system need to work with?

To provide automated boom section and flow control, the EZ-Boom system needs the AgGPS EZ-Guide® Plus system or the AgGPS Autopilot™ system with the FieldManager™ display.

What do I get out of the box?

Three product configurations (kits) are available depending on the display that you require, or are currently using. Vehicle interface harnesses are sold separately.

- **EZ-Guide Plus:** This kit includes the AgGPS EZ-Boom controller, mounting bracket, 3 harnesses, the EZ-Boom system *Getting Started Guide* and *Quick Reference Card*.
- **EZ-Guide Plus with EZ-Steer:** This kit includes the AgGPS EZ-Boom controller, mounting bracket, harness to connect the AgGPS EZ-Steer® system to the EZ-Boom system, the EZ-Boom system *Getting Started Guide* and *Quick Reference Card*.
- **AgGPS Autopilot and FieldManager display:** This kit includes the EZ-Boom controller, mounting bracket, harness to connect the FieldManager display to the EZ-Boom system, and the

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EZ-Boom system Getting started Guide. The user manual for FieldManager display has been updated to include EZ-Boom and will ship with the FieldManager display.

What is a boom section?

A boom section is a number of nozzles connected to and controlled by a single valve. Boom sections can vary in length and are often the same spacing as the folds or hinged portions of a boom.

Can I configure boom sections to work on my existing boom?

Yes, but you also need boom valves. If your sprayer is not equipped with these valves, they can be purchased and added.

How many boom sections can the EZ-Boom system support?

The EZ-Boom system supports a maximum of 10 boom sections. However, if the boom also has fence row nozzles fitted, the EZ-Boom system can be configured to support up to 8 sections and 2 fence row nozzles.

Can I use the EZ-Boom system with my existing rate controller?

Yes, the EZ-Boom system can be used for automated boom section control while the existing rate controller can be used for controlling the rate. The supported rate controllers also detect when a boom section has been turned off or on and control the rate accordingly. You can purchase an adapter cable that enables the EZ-Boom system to be connected to the sprayer at the same time as the existing rate controller.

What components does my sprayer need to use the EZ-Boom system?

Your sprayer needs the following components to work with the EZ-Boom system:

Rate control components

- **Flow Control valve: This** opens or closes to maintain the required application rate. The following control valves are supported; Inline Servo, Bypass Servo, Pump Servo, and PWM.
- **Flow meter: This** monitors and sends information to the EZ-Boom system about the amount of fluid flowing through the sprayer system. The EZ-Boom system uses this information to calculate the user-defined application rate.
- **Pressure sensor/ transducer (optional): This shows** the current system pressure on either the EZ-Guide Plus or FieldManager display.

Boom Section control components

- **Boom valves: These** valves are used to turn on and turn off flow to different sections of the boom.

How many applications (products) can the EZ-Boom system control?

EZ-Boom can control a single product of either liquid or anhydrous material; you should contact a local Trimble representative to ensure that your specific system is supported.