CABLING GUIDE

EZ-Boom[®] 2010 Automated Application Control System

Version 1.00 Revision F June 2010 Part Number 63617-00-ENG

Contact Information

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This is the June 2010 release (Revision F) of the *EZ-Boom 2010 Automated Application Control System Cabling Guide*, part number 63617-00-ENG. It applies to version 1.00 of the EZ-Boom 2010 automated application control system firmware.

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Notices

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Introduction

In this chapter:

- Technical assistance
- Your comments
- About the product

This manual shows the different cable combinations available for connecting the EZ-Boom® 2010 automated application control system.

Even if you have used other spraying products before, the manufacturer recommends that you spend some time reading this manual to learn about the special features of this product. If you are not familiar with GPS, visit the Trimble website (www.trimble.com) for an interactive look at Trimble and GPS.

Technical assistance

If you have a problem and cannot find the information you need in the product documentation, contact Trimble technical support:

- 1. Go to the Trimble website (www.trimble.com).
- 2. Click the **Support** button at the top of the screen. The Support A-Z list of products appears.
- 3. Scroll to the bottom of the list.
- 4. Click the **submit an inquiry** link. A form appears.
- 5. Complete the form and then click **Send**.

Your comments

Your feedback about the supporting documentation helps us to improve it with each revision. Email your comments to ReaderFeedback@trimble.com.

About the product

The EZ-Boom 2010 automated application control system is a versatile product that can be used with a number of different interfaces.

The connection process differs depending on which interface you have. In some cases, there is more than one option depending on which cables you have.

To connect the EZ-Boom 2010 system to:

- a display, see Chapter 3.
- an external sprayer system, see Chapter 4.

CHAPTER 2

Cable Alternatives

In this chapter:

- EZ-Boom cables
- EZ-Guide 500 power cables
- FmX integrated display / FM-1000 display cables

In several of the cabling options shown in this manual, there are two possible cables that can be used for a connection. This chapter explains the difference between cable alternatives.

EZ-Boom cables

You can use either EZ-Boom cable (P/N 61437 or P/N 59873).



EZ-Guide 500 power cables

You can use either of the EZ-Guide power cables (P/N 60198 or P/N 62817). The 60198 cable has the power connector built in, while the 62817 has a separate power lead.



FmX integrated display / FM-1000 display cables

Cables P/N 75407 and P/N 67087 break out the FmX^m integrated display or FM-1000 display CAN port for use with the EZ-Boom system.

Note – When using multiple cables, cable *P*/*N* 67087 should only be used as the first cable connected to the display.



CHAPTER

Connecting the Display

In this chapter:

- EZ-Guide 500 lightbar guidance system
- FmX integrated display / FM-1000 display
- AgGPS FieldManager display
- EZ-Guide Plus lightbar guidance system

You can connect the EZ-Boom 2010 system to several different displays, and those displays can be used with different guidance systems.

EZ-Guide 500 lightbar guidance system

There are five options for connecting the EZ-Boom 2010 system to an EZ-Guide 500 system. Use the method that matches your system components and the provided cables.

To connect the EZ-Boom 2010 system and the EZ-Guide 500 lightbar to the *Ag*GPS Autopilot system, see page 16.



With or without the EZ-Steer system (Option 1)

- If you use the lightbar *without* the EZ-Steer system, you *must* connect the serial terminator (P/N 58378) to the end of the EZ-Boom "Y" cable (P/N 58377).
- You can use either EZ-Guide 500 power cable (P/N 60198 or P/N 62817). See page 11.
- You can use either EZ-Steer extension cable (P/N 60855 or P/N 62974).



With or without the EZ-Steer system (Option 2)

- If you use the lightbar *without* the EZ-Steer system, you *must* connect the CAN terminator (P/N 59783) to the end of the EZ-Boom cable (P/N 61437).
- You can use either EZ-Guide 500 power cable (P/N 60198 or P/N 62817). See page 11.
- You can use either EZ-Steer extension cable (P/N 60855 or P/N 62974).
- You can use either EZ-Boom cable (P/N 61437 or 59873). See page 10.



With the AgGPS Autopilot system (Option 1)

- You can use either the external interface cable (P/N 52033), or the right angle extension cable (P/N 62749), or you can connect the radio cable directly to the lightbar serial port (if you do not have the optional keypad). See page 11.
- You can use either EZ-Boom cable (P/N 61437 or P/N 59873). See page 10.

With the AgGPS Autopilot system (Option 2)

Use this option if you are connecting the EZ-Guide 500 lightbar and EZ-Boom 2010 system to an AgGPS Autopilot system with a SiteNetTM radio (North America).



- You can use either the external interface cable (P/N 52033), or the right angle extension cable (P/N 62749), or you can connect the radio cable directly to the lightbar serial port (if you do not have the optional keypad). See page 11.
- You can use either EZ-Boom cable (P/N 61437 or P/N 59873). See page 10.

With the AgGPS Autopilot system (Option 3)

Use this option if you are connecting the EZ-Guide 500 lightbar and EZ-Boom 2010 system to an *Ag*GPS Autopilot system with a Pacific Crest radio (in Europe or South America).



- You can use either the external interface cable (P/N 52033), or the right angle extension cable (P/N 62749), or you can connect the radio cable directly to the lightbar serial port (if you do not have the optional keypad). See page 11.
- You can use either EZ-Boom cable (P/N 61437 or P/N 59873). See page 10.

FmX integrated display / FM-1000 display

The following options allow the EZ-Boom system to be added to the FmX integrated display and the FM-1000 display.

Option 1

FmX integrated display / FM-1000 and EZ-Boom with manual guidance:



Item	Description	Trimble part number
0	FmX integrated display	93100-01
0	FmX power cable	66694
Û	FmX basic power cable	67258
4	8m GPS TNC/TNC RT angle cable	50449
6	Ag15 GPS antenna	60600-02
0	FmX to CAN cable with port replicator	75407
0	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
8	CAN terminator	59783
Ø	EZ-Boom controller	59898-00

Option 2

 ${\rm FmX}$ integrated display / FM-1000 display with Autopilot, EZ-Boom, and RTK corrections:



Item	Description	Trimble part number
0	FmX integrated display	93100-02
0	FmX power cable	66694
₿	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
6	FmX to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
Ø	NavController II	55563-00
8	8m GPS TNC/TNC RT angle cable	50449
Ø	Z-Plus GPS antenna	57200-00
0	NMO to TNC 20ft antenna cable and base	62120
0	900MHz radio antenna kit	22882-10

Item	Description	Trimble part number
ß	FmX to CAN cable with port replicator	75407
B	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
Ø	CAN terminator	59783
6	EZ-Boom controller	59898-00
6	Main NavController II cable	54601

AgGPS FieldManager display

There are two options for connecting the EZ-Boom 2010 system to an *Ag*GPS FieldManager[™] display, depending on which EZ-Boom extension cable you have.

Option 1



Option 2



EZ-Guide Plus lightbar guidance system

To connect the EZ-Boom controller to an EZ-Guide Plus lightbar guidance system (with or without the EZ-Steer controller), see below.

To connect the EZ-Boom controller to an $AgGPS^{\textcircled{o}}$ Autopilot^m system with the EZ-Guide Plus as the display, see With the AgGPS Autopilot system, page 25.



With the EZ-Guide Plus or EZ-Steer systems

With this option:

• If you use the lightbar *without* the EZ-Steer system, you *must* connect the serial terminator (P/N 58378) to the end of the EZ-Boom "Y" cable (P/N 58377).



With the AgGPS Autopilot system

Connecting the Display

CHAPTER

Connecting to an External Device

In this chapter:

- Full Raven and non-Raven harnesses
- External harness: John Deere
- External harness: Spra-Coupe standard polarity
- External harness: Spra-Coupe reverse polarity
- External harness: Hardi rate and boom section
- External harness: Hardi boom section only
- External harness: Flexicoil
- External harness: Flexicoil pressure sensor adaptor cable
- EZ-Boom to 2009 SPX boom section control cable

- EZ-Boom to 2009 SPX boom section and rate control kit
- EZ-Boom for Rogator 2007+ Ag Chem Rogator boom section control cable
- EZ-Boom for Berthoud Raptor, Tenor, Elyte, Racer EX / EXS: Regular motorized valves
- EZ-Boom for Berthoud Raptor, Tenor, Elyte, Racer EX / EXS: Reverse polarity valves
- RoGator 2007 or Newer: Rate and Section Control
- **EZ-Boom to Tru Count clutches**
- EZ-Boom controller: SPX 3150, 3185, 3200: Diode jumper

This chapter shows which cables to use when connecting the EZ-Boom 2010 system to an external device, such as an existing sprayer harness or a variable rate controller.

Full Raven and non-Raven harnesses

The full EZ-Boom harness solutions enable you to replace an existing cabling harness, or to outfit a new sprayer with a new harness. The full harness design provides the flexibility to either fit Raven or non-Raven components (Dickey John, Mid-Tech, and Tee-Jet). To select the correct component specific cables see the charts below and use the diagrams on the following pages.

Raven cables

Pressure sensor

Part number	Description
59945	Raven pressure sensor – 6 ft

Boom valve cables

Part number	Description	
59950	Raven 7 boom motor valves – 6 ft	
59951	Raven 10 boom motor valves – 5 ft	

Control valve and flowmeter cable

Part number	Description
59948	Raven valve/flowmeter – 6 ft

Non-Raven cables

Pressure sensor cable

Part number	Description
59944	Dickey John pressure sensor – 5 ft

Boom valve cables

Part number	Description
59952	7 boom solenoid valves – 5 ft
60471	10 boom solenoid valves – 6 ft

Control valve and flowmeter cables

Part number	Description
59946	Dickey John valve/flowmeter – 6 ft
59947	Mid-Tech valve/flowmeter – 6 ft
59949	TeeJet control/Flow – 6 ft



Full harness components

Item	Description	Trimble part number
0	To display	61437
0	EZ-Boom extension	10 ft: 60474
-		36 ft: 60475
₿	10 ft cab harness	60472
4	15 ft implement harness	60473
6	6 ft foot pedal	60490
6	24 ft power cord	60476
Ø	To battery	
8	Flow meter	For Raven, see table on page 28
Ø	Control valve	Non-Raven, see table on page 29
Ø	Raven 3 way boom valves	For Raven, see table on page 28
•		Non-Raven, see table on page 29
Ð	5" implement plug	60568
Ø	Pressure sensor	For Raven, see table on page 28
_		Non-Raven, see table on page 29
B	1 ft implement switch	60477
(4)	Implement switch extension	10ft: 60478
		25ft: 60479

Full harness component part numbers



Connecting to the Raven 4x0 harness



Connecting to the Raven 4x00 harness



Connecting to the Raven 4x0 controller and harness



Connecting to the Raven 4x00 controller and harness



External harness: John Deere



External harness: Spra-Coupe standard polarity

ltem	Description	
0	16-pin "R2 - Raven Harn" connector	
0	Master switch jumper: 1-pin P5 and R6 connectors	
6	Spra-Coupe-to-EZ-Boom section connectors (P/N 64671)	
4	8-pin P3 connector	
6	3-pin P4 power connector	
6	15 amp fuse	
9	EZ-Boom controller	
8	EZ-Guide Plus lightbar, EZ-Guide 500 lightbar, or FieldManager display connector	
9	Spra-Coupe-to-EZ-Boom harness (P/N 64671)	

External harness: Spra-Coupe reverse polarity



Item	Description
0	16-pin "R2 - Raven Harn" connector
2	Master switch jumper: 1-pin P5 and R6 connectors
€	Relay module box
4	Spra-Coupe DT-to-EZ-Boom adaptors harness (P/N 64670)
6	Boom switch connectors
6	8-pin P3 connector
0	3-pin P4 power connector
8	15 amp fuse
0	EZ-Boom controller
0	EZ-Guide Plus lightbar, EZ-Guide 500 lightbar, or FieldManager display connector
S D	Spra-Coupe-to-EZ-Boom harness (P/N 64671)



External harness: Hardi rate and boom section

Item	Description	Trimble part number
0	EZ-Boom controller	
0	6' EZ-Boom full harness cable	60634
€	HARDI Harness - T connection with flow control	67248
4	Implement plug	60568
6	EZ Boom full power cable	60476
6	Valve relay module, 10-section cable	60889
Ø	Valve relay module	62841



External harness: Hardi boom section only

External harness: Flexicoil



Item	Description
	R3 – 24-pin sprayer connector
0	P4 – Foot switch connector
6	P6 – Auxiliary pressure connector
4	P5 – Boom sections 6–10
6	P2 – EZ-Boom auxiliary connector
6	P1 – EZ-Boom main connector
0	EZ-Boom to Flexicoil adaptor (P/N 64396)

External harness: Flexicoil pressure sensor adaptor cable



Item	Description
0	P9 – 3-pin pressure sensor connector
0	EZ-Boom sensor adaptor cable
₿	R7 – 3-pin DTM connector
4	R8 – 3-pin WeatherPack connector



EZ-Boom to 2009 SPX boom section control cable

Item	Description	Trimble part number
0	EZ-Boom controller	
0	Cable Assembly, EZ-Boom to SPX Section Control	76342
€	"P1" connector	
4	"P3" connector	
6	"R3" connector	
6	"R4" connector	
Ø	"F1" connector	
8	"P2" connector	
Ø	"R2" connector	

EZ-Boom to 2009 SPX boom section and rate control kit



Item	Description	Trimble part number
0	EZ-Boom controller	
0	24' power cable	60476 (4000920-24)
€	6' EZ-Boom to SPX harness cable	60634 (4000951-6)
4	9' pump switch cable	4001370-9
6	5' remote master to foam advance cable	4001859-5
6	15' pressure/control cable	4001852
Ø	5' speed node cable	4001853
8	12' command module cable	4001369-12
Ø	2' remote load to PWM valve cable	4001209-2

EZ-Boom for Rogator 2007+ Ag Chem Rogator boom section control cable



Item	Description	Trimble part number
0	EZ-Boom controller	
0	7 ft EZ-Boom for RoGator 2007 cable assembly	75013
€	RoGator auxiliary power cable	

EZ-Boom for Berthoud Raptor, Tenor, Elyte, Racer EX / EXS: Regular motorized valves



Item	Description	Trimble part number
0	EZ-Boom controller	
2 & B	To EZ-Boom controller	
4	To sprayer controller	
6	To power bus or 25 Amp power lead	

EZ-Boom for Berthoud Raptor, Tenor, Elyte, Racer EX / EXS: Reverse polarity valves

EZ-Boom Platform kit 79071-00.

In addition to the cable shown on page 49, the reverse polarity system requires two valve relay modules.

For additional system diagrams for the specific sprayer model, see the installation instructions



Item	Trimble part number
Cable	79071
Valve relay module	62841



RoGator 2007 or Newer: Rate and Section Control

Item	Description	Trimble part number
	EZ-Boom platform kit	80082-00
0	EZ-Boom controller	
0	7 ft EZ-Boom for RoGator 2007 cable assembly	80082

EZ-Boom to Tru Count clutches



Item	Trimble part number
Cable assy, EZ-Boom to valve	75368



EZ-Boom controller: SPX 3150, 3185, 3200: Diode jumper

Item	Trimble part number
Case SPX 3150, 3185, 3200: Diode jumper installation	69982

4 Connecting to an External Device