CABLING GUIDE

EZ-Boom® 2010

Automated Application Control System
extend the limited warranty period. Software Fixes or other enhancements shall not serve to
from this update process and limited warranty. Receipt of
releases, as identified by Trimble, are expressly excluded
Upgrades, new products, or substantially new software
may, at its option, forward the software Fix to the Trimble
you have purchased the Product from an authorized
for delivery to purchasers of Trimble products generally. If
it does not charge separately, subject to the procedures
in materials and workmanship.

PRODUCT LIMITED WARRANTY TERMS AND CONDITIONS

Product Limited Warranty
Subject to the following terms and conditions, Trimble
Navigation Limited ("Trimble") warrants that for a period
of one (1) year from date of purchase this Trimble product
(the "Product") will substantially conform to Trimble's
publicly available specifications for the Product and that
the hardware and any storage media components of the
Product will be substantially free from defects in
materials and workmanship.

Product Software
Product software, whether built into hardware circuitry
as firmware, provided as a standalone computer software
product, embedded in flash memory, or stored on
magnetic or other media, is licensed solely for use with or
as an integral part of the Product and is not sold. If
accompanied by a separate end user license agreement
("EULA"), use of any such software will be subject to the
terms of such end user license agreement (including any
differing limited warranty terms, exclusions, and
limitations), which shall control over the terms and
conditions set forth in this limited warranty.

Software Fixes
During the limited warranty period you will be entitled to
receive such Fixes to the Product software that Trimble
releases and makes commercially available and for which
it does not charge separately, subject to the procedures
for delivery to purchasers of Trimble products generally. If
you have purchased the Product from an authorized
Trimble dealer rather than from Trimble directly, Trimble
may, at its option, forward the software Fix to the Trimble
dealer for final distribution to you. Minor Updates, Major
Upgrades, new products, or substantially new software
releases, as identified by Trimble, are expressly excluded
from this update process and limited warranty. Receipt of
software Fixes or other enhancements shall not serve to
extend the limited warranty period.

For purposes of this warranty the following definitions
shall apply: (1) "Fix(es)" means an error correction or
other update created to fix a previous software version
that does not substantially conform to its Trimble
specifications; (2) "Minor Update" occurs when
enhancements are made to current features in a software
program; and (3) "Major Upgrade" occurs when
significant new features are added to software, or when a
new product containing new features replaces the further
development of a current product line. Trimble reserves
the right to determine, in its sole discretion, what
constitutes a Fix, Minor Update, or Major Upgrade.

Warranty Remedies
If the Trimble Product fails during the warranty period for
reasons covered by this limited warranty and you notify
Trimble of such failure during the warranty period,
Trimble will repair OR replace the nonconforming
Product with new, equivalent to new, or reconditioned
parts or Product, OR refund the Product purchase price
paid by you, at Trimble's option, upon your return of the
Product in accordance with Trimble's product return
procedures then in effect.

How to Obtain Warranty Service
To obtain warranty service for the Product, please contact
your local Trimble authorized dealer. Alternatively, you
may contact Trimble to request warranty service at +1-
408-481-6940 (24 hours a day) or e-mail your request to
trimble_support@trimble.com. Please be prepared to
provide:
- your name, address, and telephone numbers
- proof of purchase
- a copy of this Trimble warranty
- a description of the nonconforming Product including
  the model number
- an explanation of the problem
The customer service representative may need additional
information from you depending on the nature of the
problem.

Warranty Exclusions and Disclaimer
This Product limited warranty shall only apply in the
event to the extent that (a) the Product is properly
and correctly installed, configured, interfaced,
maintained, stored, and operated in accordance with
Trimble’s applicable operator’s manual and specifications,
and; (b) the Product is not modified or misused. This
Product limited warranty shall not apply to, and Trimble
shall not be responsible for, defects or performance
problems resulting from (i) the combination or utilization
of the Product with hardware or software products,
information, data, systems, interfaces, or devices not
made, supplied, or specified by Trimble; (ii) the operation
of the Product under any specification other than, or in
addition to, Trimble's standard specifications for its
products; (iii) the unauthorized installation, modification,
or use of the Product; (iv) damage caused by: accident,
lightning or other electrical discharge, fresh or salt water
immersion or spray (outside of Product specifications); or
exposure to environmental conditions for which the
Product is not intended; (e) normal wear and tear on
consumable parts (e.g., batteries); or (iv) cosmetic
damage. Trimble does not warrant or guarantee the results obtained through the use of the Product, or that software components will operate error free.

NOTICE REGARDING PRODUCTS EQUIPPED WITH TECHNOLOGY CAPABLE OF TRACKING SATELLITE SIGNALS FROM SATELLITE BASED AUGMENTATION SYSTEMS (SBAS) (WAAS/EGNOS, AND MSAS), OMNISTAR, GPS, MODERNIZED GPS OR GLONASS SATELLITES, OR FROM IALA BEACON SOURCES: TRIMBLE IS NOT RESPONSIBLE FOR THE OPERATION OR FAILURE OF OPERATION OF ANY SATELLITE BASED POSITIONING SYSTEM OR THE AVAILABILITY OF ANY SATELLITE BASED POSITIONING SIGNALS.

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Limitation of Liability

Trimble’s entire liability under any provision herein shall be limited to the amount paid by you for the product, to the maximum extent permitted by applicable law, in no event shall Trimble or its suppliers be liable for any indirect, special, incidental, or consequential damage whatsoever under any circumstance or legal theory relating in anyway to the products, software and accompanying documentation and materials, including, without limitation, damages for loss of business profits, business interruption, loss of data, or any other pecuniary loss, regardless of whether Trimble has been advised of the possibility of any such loss and regardless of the course of dealing which develops or has developed between you and Trimble. Because some states and jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages, the above limitation may not apply to you.

Please note: the above Trimble limited warranty provisions will not apply to products purchased in those jurisdictions (e.g., member states of the European Economic Area) in which product warranties are the responsibility of the local Trimble authorized dealer from whom the products are acquired. In such a case, please contact your local Trimble authorized dealer for applicable warranty information.

Official Language

The official language of these terms and conditions is English. In the event of a conflict between English and other language versions, the English language shall control.

Registration

To receive information regarding updates and new products, please contact your local dealer or visit the Trimble website at www.trimble.com/register. Upon registration you may select the newsletter, upgrade, or new product information you desire.

Notices

Notice to Our European Union Customers

For product recycling instructions and more information, please go to www.trimble.com/ev.shtml.

Recycling in Europe: To recycle Trimble WEEE (Waste Electrical and Electronic Equipment, products that run on electrical power), call +31 497 53 24 30, and ask for the “WEEE Associate”. Or, mail a request for recycling instructions to: Trimble Europe BV c/o Menlo Worldwide Logistics Meerheide 45 5521 DZ Eersel, NL
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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.
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™ 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.
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.
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 AgGPS Autopilot system, see page 16.

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

<table>
<thead>
<tr>
<th>EZ-Guide 500 lightbar</th>
<th>EZ-Boom controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power cable (P/N 60198 or P/N 62817)</td>
<td>EZ-Steer extension cable (P/N 60855 or P/N 62974)</td>
</tr>
<tr>
<td>EZ-Boom “Y” cable (P/N 58377)</td>
<td></td>
</tr>
</tbody>
</table>

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).
- 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)

With this option:

- 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)

With this option:

- 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 SiteNet™ radio (North America).

With this option:

- 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 AgGPS Autopilot system with a Pacific Crest radio (in Europe or South America).

With this option:

- 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:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FmX integrated display</td>
<td>93100-01</td>
</tr>
<tr>
<td>2</td>
<td>FmX power cable</td>
<td>66694</td>
</tr>
<tr>
<td>3</td>
<td>FmX basic power cable</td>
<td>67258</td>
</tr>
<tr>
<td>4</td>
<td>8m GPS TNC/TNC RT angle cable</td>
<td>50449</td>
</tr>
<tr>
<td>5</td>
<td>Ag15 GPS antenna</td>
<td>60600-02</td>
</tr>
<tr>
<td>6</td>
<td>FmX to CAN cable with port replicator</td>
<td>75407</td>
</tr>
<tr>
<td>7</td>
<td>EZ-Boom 2010 to FMD and EZ-Guide 500 cable</td>
<td>61437</td>
</tr>
<tr>
<td>8</td>
<td>CAN terminator</td>
<td>59783</td>
</tr>
<tr>
<td>9</td>
<td>EZ-Boom controller</td>
<td>59898-00</td>
</tr>
</tbody>
</table>
## Option 2

FmX integrated display / FM-1000 display with Autopilot, EZ-Boom, and RTK corrections:

![Diagram of EZ-Boom 2010 System Cabling Guide](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FmX integrated display</td>
<td>93100-02</td>
</tr>
<tr>
<td>2</td>
<td>FmX power cable</td>
<td>66694</td>
</tr>
<tr>
<td>3</td>
<td>FmX power cable with relay and switch (power bus)</td>
<td>67259</td>
</tr>
<tr>
<td>4</td>
<td>Basic power cable</td>
<td>67258</td>
</tr>
<tr>
<td>5</td>
<td>FmX to NavController II cable with port replicator</td>
<td>75741</td>
</tr>
<tr>
<td>6</td>
<td>2 pin DTM to 2 pin DT power adaptor</td>
<td>67095</td>
</tr>
<tr>
<td>7</td>
<td>NavController II</td>
<td>55563-00</td>
</tr>
<tr>
<td>8</td>
<td>8m GPS TNC/TNC RT angle cable</td>
<td>50449</td>
</tr>
<tr>
<td>9</td>
<td>Z-Plus GPS antenna</td>
<td>57200-00</td>
</tr>
<tr>
<td>10</td>
<td>NMO to TNC 20ft antenna cable and base</td>
<td>62120</td>
</tr>
<tr>
<td>11</td>
<td>900MHz radio antenna kit</td>
<td>22882-10</td>
</tr>
</tbody>
</table>
### Item Description | Trimble part number
---|---
1. FmX to CAN cable with port replicator | 75407
2. EZ-Boom 2010 to FMD and EZ-Guide 500 cable | 61437
3. CAN terminator | 59783
4. EZ-Boom controller | 59898-00
5. Main NavController II cable | 54601
AgGPS FieldManager display

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

Option 1

[Diagram showing connections between FieldManager display, EZ-Boom controller, EZ-Boom extension cable, CAN terminator, FieldManager harness, and Autopilot controller.]
Option 2

To continuous power

FieldManager display

EZ-Boom extension cable (P/N 61437)

CAN terminator (P/N 59783)

FieldManager harness (P/N 59872)

EZ-Boom controller

Autopilot controller
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® Autopilot™ 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

EZ-Guide Plus lightbar

EZ-Steer cable (P/N 52763)

To power

Not used

EZ-Boom controller

EZ-Boom “Y” cable (P/N 58377)

Serial terminator (P/N 58378)

Display cable (P/N 54612)

Autopilot controller

Not used
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**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59945</td>
<td>Raven pressure sensor – 6 ft</td>
</tr>
</tbody>
</table>

**Boom valve cables**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59950</td>
<td>Raven 7 boom motor valves – 6 ft</td>
</tr>
<tr>
<td>59951</td>
<td>Raven 10 boom motor valves – 5 ft</td>
</tr>
</tbody>
</table>

**Control valve and flowmeter cable**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59948</td>
<td>Raven valve/flowmeter – 6 ft</td>
</tr>
</tbody>
</table>
### Non-Raven cables

#### Pressure sensor cable

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59944</td>
<td>Dickey John pressure sensor – 5 ft</td>
</tr>
</tbody>
</table>

#### Boom valve cables

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59952</td>
<td>7 boom solenoid valves – 5 ft</td>
</tr>
<tr>
<td>60471</td>
<td>10 boom solenoid valves – 6 ft</td>
</tr>
</tbody>
</table>

#### Control valve and flowmeter cables

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>59946</td>
<td>Dickey John valve/flowmeter – 6 ft</td>
</tr>
<tr>
<td>59947</td>
<td>Mid-Tech valve/flowmeter – 6 ft</td>
</tr>
<tr>
<td>59949</td>
<td>TeeJet control/Flow – 6 ft</td>
</tr>
</tbody>
</table>
Connecting to an External Device

Full harness components

[Diagram of full harness components]

EZ-Boom 2010 System Cabling Guide
## Full harness component part numbers

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>To display</td>
<td>61437</td>
</tr>
<tr>
<td>②</td>
<td>EZ-Boom extension</td>
<td>10 ft: 60474</td>
</tr>
<tr>
<td></td>
<td></td>
<td>36 ft: 60475</td>
</tr>
<tr>
<td>③</td>
<td>10 ft cab harness</td>
<td>60472</td>
</tr>
<tr>
<td>④</td>
<td>15 ft implement harness</td>
<td>60473</td>
</tr>
<tr>
<td>⑤</td>
<td>6 ft foot pedal</td>
<td>60490</td>
</tr>
<tr>
<td>⑥</td>
<td>24 ft power cord</td>
<td>60476</td>
</tr>
<tr>
<td>⑦</td>
<td>To battery</td>
<td></td>
</tr>
<tr>
<td>⑧</td>
<td>Flow meter</td>
<td>For Raven, see table on page 28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Raven, see table on page 29</td>
</tr>
<tr>
<td>⑨</td>
<td>Control valve</td>
<td></td>
</tr>
<tr>
<td>⑩</td>
<td>Raven 3 way boom valves</td>
<td>For Raven, see table on page 28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Raven, see table on page 29</td>
</tr>
<tr>
<td>⑪</td>
<td>5” implement plug</td>
<td>60568</td>
</tr>
<tr>
<td>⑫</td>
<td>Pressure sensor</td>
<td>For Raven, see table on page 28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-Raven, see table on page 29</td>
</tr>
<tr>
<td>⑬</td>
<td>1 ft implement switch</td>
<td>60477</td>
</tr>
<tr>
<td>⑭</td>
<td>Implement switch extension</td>
<td>10ft: 60478</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25ft: 60479</td>
</tr>
</tbody>
</table>
Connecting to an External Device

Connecting to the Raven 4x0 harness

- EZ-Boom controller
- To display
- Existing Raven 4x0 harness (already in vehicle)
- Flow control valve
- Flow meter
- Pressure sensor
- Boom valves
Connecting to the Raven 4x00 harness

EZ-Boom controller

To display

Raven 4x00 to 4x0 harness adaptor (P/N 59943)

Existing Raven 4x00 harness (already in vehicle)

Pressure sensor

Boom valves

Flow control valve

Flow meter
Connecting to the Raven 4x0 controller and harness

To display

EZ-Boom controller

Raven 4x0 controller

Existing Raven 4x0 harness

“Y” cable from EZ-Boom system to an existing controller (P/N 58560)

Add a remote master (+12 VDC and Remote master Leads)

Boom valves

Flow control valve

Flow meter

Pressure sensor

EZ-Boom controller

Raven 4x0 controller
Connecting to the Raven 4x00 controller and harness

To display

Pressure sensor

Boom valves

Flow control valve

Flow meter

Existing Raven 4x00 harness

“Y” cable from EZ-Boom system to an existing controller (P/N 59942)
External harness: John Deere

- EZ-Boom controller
- John Deere EZ-Boom harness (P/N 61593) 7½ ft
- To John Deere switches
- John Deere power strip
- Foot pedal (P/N 60490) 6 ft (optional)
- Flow meter tee (P/N 62136) 38 ft (optional, but included in kit)
- Flow meter
External harness: Spra-Coupe standard polarity

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16-pin “R2 - Raven Harn” connector</td>
</tr>
<tr>
<td>2</td>
<td>Master switch jumper: 1-pin P5 and R6 connectors</td>
</tr>
<tr>
<td>3</td>
<td>Spra-Coupe-to-EZ-Boom section connectors (P/N 64671)</td>
</tr>
<tr>
<td>4</td>
<td>8-pin P3 connector</td>
</tr>
<tr>
<td>5</td>
<td>3-pin P4 power connector</td>
</tr>
<tr>
<td>6</td>
<td>15 amp fuse</td>
</tr>
<tr>
<td>7</td>
<td>EZ-Boom controller</td>
</tr>
<tr>
<td>8</td>
<td>EZ-Guide Plus lightbar, EZ-Guide 500 lightbar, or FieldManager display connector</td>
</tr>
<tr>
<td>9</td>
<td>Spra-Coupe-to-EZ-Boom harness (P/N 64671)</td>
</tr>
</tbody>
</table>
External harness: Spra-Coupe reverse polarity

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16-pin &quot;R2 - Raven Harn&quot; connector</td>
</tr>
<tr>
<td>2</td>
<td>Master switch jumper: 1-pin P5 and R6 connectors</td>
</tr>
<tr>
<td>3</td>
<td>Relay module box</td>
</tr>
<tr>
<td>4</td>
<td>Spra-Coupe DT-to-EZ-Boom adaptors harness (P/N 64670)</td>
</tr>
<tr>
<td>5</td>
<td>Boom switch connectors</td>
</tr>
<tr>
<td>6</td>
<td>8-pin P3 connector</td>
</tr>
<tr>
<td>7</td>
<td>3-pin P4 power connector</td>
</tr>
<tr>
<td>8</td>
<td>15 amp fuse</td>
</tr>
<tr>
<td>9</td>
<td>EZ-Boom controller</td>
</tr>
<tr>
<td>10</td>
<td>EZ-Guide Plus lightbar, EZ-Guide 500 lightbar, or FieldManager display connector</td>
</tr>
<tr>
<td>11</td>
<td>Spra-Coupe-to-EZ-Boom harness (P/N 64671)</td>
</tr>
</tbody>
</table>
External harness: Hardi rate and boom section
## Connecting to an External Device

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EZ-Boom controller</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>6’ EZ-Boom full harness cable</td>
<td>60634</td>
</tr>
<tr>
<td>3</td>
<td>HARDI Harness - T connection with flow control</td>
<td>67248</td>
</tr>
<tr>
<td>4</td>
<td>Implement plug</td>
<td>60568</td>
</tr>
<tr>
<td>5</td>
<td>EZ Boom full power cable</td>
<td>60476</td>
</tr>
<tr>
<td>6</td>
<td>Valve relay module, 10-section cable</td>
<td>60889</td>
</tr>
<tr>
<td>7</td>
<td>Valve relay module</td>
<td>62841</td>
</tr>
</tbody>
</table>
External harness: Hardi boom section only
External harness: Flexicoil

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R3 – 24-pin sprayer connector</td>
</tr>
<tr>
<td>2</td>
<td>P4 – Foot switch connector</td>
</tr>
<tr>
<td>3</td>
<td>P6 – Auxiliary pressure connector</td>
</tr>
<tr>
<td>4</td>
<td>P5 – Boom sections 6–10</td>
</tr>
<tr>
<td>5</td>
<td>P2 – EZ-Boom auxiliary connector</td>
</tr>
<tr>
<td>6</td>
<td>P1 – EZ-Boom main connector</td>
</tr>
<tr>
<td>7</td>
<td>EZ-Boom to Flexicoil adaptor (P/N 64396)</td>
</tr>
</tbody>
</table>
External harness: Flexicoil pressure sensor adaptor cable

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P9 – 3-pin pressure sensor connector</td>
</tr>
<tr>
<td>2</td>
<td>EZ-Boom sensor adaptor cable</td>
</tr>
<tr>
<td>3</td>
<td>R7 – 3-pin DTM connector</td>
</tr>
<tr>
<td>4</td>
<td>R8 – 3-pin WeatherPack connector</td>
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</table>
EZ-Boom to 2009 SPX boom section control cable
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>EZ-Boom controller</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cable Assembly, EZ-Boom to SPX Section Control</td>
<td>76342</td>
</tr>
<tr>
<td>3</td>
<td>&quot;P1&quot; connector</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>&quot;P3&quot; connector</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>&quot;R3&quot; connector</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>&quot;R4&quot; connector</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>&quot;F1&quot; connector</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>&quot;P2&quot; connector</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>&quot;R2&quot; connector</td>
<td></td>
</tr>
</tbody>
</table>
EZ-Boom to 2009 SPX boom section and rate control kit

NOTES:
1. BLACK ITEMS ARE EZ-BOOM COMPONENTS, GRAY ITEMS ARE SPRAYER COMPONENTS.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EZ-Boom controller</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>24' power cable</td>
<td>60476 (4000920-24)</td>
</tr>
<tr>
<td>3</td>
<td>6' EZ-Boom to SPX harness cable</td>
<td>60634 (4000951-6)</td>
</tr>
<tr>
<td>4</td>
<td>9' pump switch cable</td>
<td>4001370-9</td>
</tr>
<tr>
<td>5</td>
<td>5' remote master to foam advance cable</td>
<td>4001859-5</td>
</tr>
<tr>
<td>6</td>
<td>15' pressure/control cable</td>
<td>4001852</td>
</tr>
<tr>
<td>7</td>
<td>5' speed node cable</td>
<td>4001853</td>
</tr>
<tr>
<td>8</td>
<td>12' command module cable</td>
<td>4001369-12</td>
</tr>
<tr>
<td>9</td>
<td>2' remote load to PWM valve cable</td>
<td>4001209-2</td>
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</tbody>
</table>
**EZ-Boom for Rogator 2007+ Ag Chem Rogator boom section control cable**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EZ-Boom controller</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>7 ft EZ-Boom for RoGator 2007 cable assembly</td>
<td>75013</td>
</tr>
<tr>
<td>3</td>
<td>RoGator auxiliary power cable</td>
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</tbody>
</table>
### EZ-Boom for Berthoud Raptor, Tenor, Elyte, Racer EX / EXS: Regular motorized valves

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>EZ-Boom controller</td>
<td></td>
</tr>
<tr>
<td>② &amp; ③</td>
<td>To EZ-Boom controller</td>
<td></td>
</tr>
<tr>
<td>④</td>
<td>To sprayer controller</td>
<td></td>
</tr>
<tr>
<td>⑤</td>
<td>To power bus or 25 Amp power lead</td>
<td></td>
</tr>
</tbody>
</table>

Cable P/N 75012-00
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.

<table>
<thead>
<tr>
<th>Item</th>
<th>Trimble part number</th>
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</thead>
<tbody>
<tr>
<td>Cable</td>
<td>79071</td>
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<tr>
<td>Valve relay module</td>
<td>62841</td>
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</table>
## RoGator 2007 or Newer: Rate and Section Control

A diagram showing connections for rate and section control.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Trimble part number</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>EZ-Boom platform kit</td>
<td>80082-00</td>
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<tr>
<td>2</td>
<td>EZ-Boom controller</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>7 ft EZ-Boom for RoGator 2007 cable assembly</td>
<td>80082</td>
</tr>
</tbody>
</table>
EZ-Boom to Tru Count clutches

<table>
<thead>
<tr>
<th>Item</th>
<th>Trimble part number</th>
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</thead>
<tbody>
<tr>
<td>Cable assy, EZ-Boom to valve</td>
<td>75368</td>
</tr>
</tbody>
</table>
**EZ-Boom controller: SPX 3150, 3185, 3200: Diode jumper**

![Diagram](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Trimble part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case SPX 3150, 3185, 3200: Diode jumper installation</td>
<td>69982</td>
</tr>
</tbody>
</table>
Connecting to an External Device