

# CABLING GUIDE

## **CFX-750™ Display**

Version 1.05  
Revision A  
June 2011  
Part Number 94100-00-ENG



## Contact Information

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## Legal Notices

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### Release Notice

This is the June 2011 release (Revision A) of the *CFX-750 Display Cabling Guide*. It applies to version 1.05 of the CFX-750 display firmware.

## LIMITED WARRANTY TERMS AND CONDITIONS

### Product Limited Warranty

Trimble Navigation Limited ("Trimble") warrants that this product and its internal components (the "Product") shall be free from defects in materials and workmanship and will substantially conform to Trimble's applicable published specifications for the Product for a period of two (2) years, starting from the earlier of (i) the date of installation, or (ii) six (6) months from the date of original Product shipment from Trimble.

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- 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.

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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.

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## Notices

### Federal Communications Commission (FCC) Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. TRIMBLE is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

Trimble Navigation  
935 Stewart Drive  
Sunnyvale CA 94085  
Telephone: 1-408 481 8000

### Industry Canada Compliance Statement

This Class A digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

### Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### European Community Compliance Statement

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. TRIMBLE cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-TRIMBLE option cards.

### Australia and New Zealand Class A Statement

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### Notice to Our European Union Customers

For product recycling instructions and more information, please go to [www.trimble.com/ev.shtml](http://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



## Declaration of Conformity

We, Trimble Navigation Limited,

935 Stewart Drive  
PO Box 3642  
Sunnyvale, CA 94088-3642  
United States  
+1-408-481-8000

declare under sole responsibility that the product:  
FmX integrated display complies with Part 15  
of FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

### Restriction of Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

This Trimble product complies in all material respects with DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and Amendment 2005/618/EC filed under C(2005) 3143, with exemptions for lead in solder pursuant to Paragraph 7 of the Annex to the RoHS Directive applied.



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# Cable Configuration

**In this chapter:**

- Configuration options
- Multiple cables on single ports
- Cable / port compatibility

This chapter describes cabling options for the CFX-750™ display.

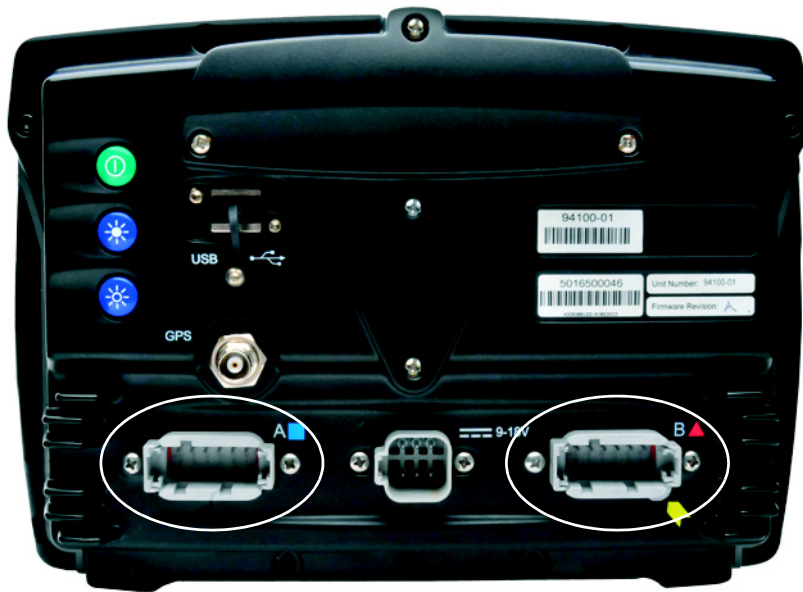
## Configuration options

The CFX-750 display can operate as a standalone guidance system, or you can connect it to a range of devices to expand its functionality. This document shows you how to complete those cable connections.

To connect the display ...	See ...
as a standalone guidance system	<a href="#">Chapter 2</a>
to the EZ-Steer® assisted steering system	<a href="#">Chapter 3</a>
to:	<a href="#">Chapter 4</a>
<ul style="list-style-type: none"><li>the Autopilot™ automated steering system</li><li>an AccuGuide or Intellisteer ready tractor</li><li>an AGCO wheeled tractor</li></ul>	
to a Field-IQ crop input control system	<a href="#">Chapter 5</a>
for radar output or serial control	<a href="#">Chapter 6</a>
to modems	<a href="#">Chapter 7</a>
to additional accessories	<a href="#">Chapter 8</a>

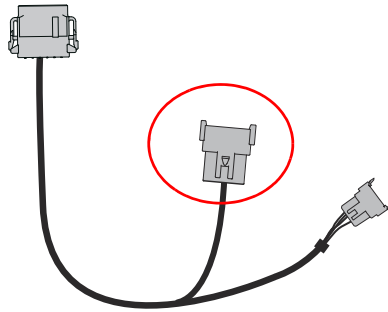
## Multiple cables on single ports

- You can utilize one communication type (i.e. RS232, or CAN) on each port. If two RS232 ports are required then configure the cabling to use port A and port B.





- The replicator port on most cables breaks away the pins not used by the primary device the cable was designed for.  
For example, if the RS232 port is required, the port replicator breaks out the CAN, digital, pins etc. Do not connect the port replicator to the NavController II.



- When using the LB25 lightbar, you must use cable P/N 72420.

## Cable / port compatibility

Use this table to confirm which CFX-750 display cable to use in each CAN port:



Function	Communication type	Dedicated CAN port required?	Port A ①	Port B ②	Port C ③
Autopilot	RS232			✓	
EZ-Steer	CAN	✓	✓	✓	✓
Field-IQ	CAN	✓	✓	✓	
Serial VR	RS232		✓	✓	

Function	Communication type	Dedicated CAN port required?	Port A ①	Port B ②	Port C ③
Radar output	Digital		✓		
Cameras	Video		✓	✓	
Lightbars	CAN	✓	✓	✓	
Ag3000	RS232		✓		
EZ-Remote	CAN	✓	✓	✓	

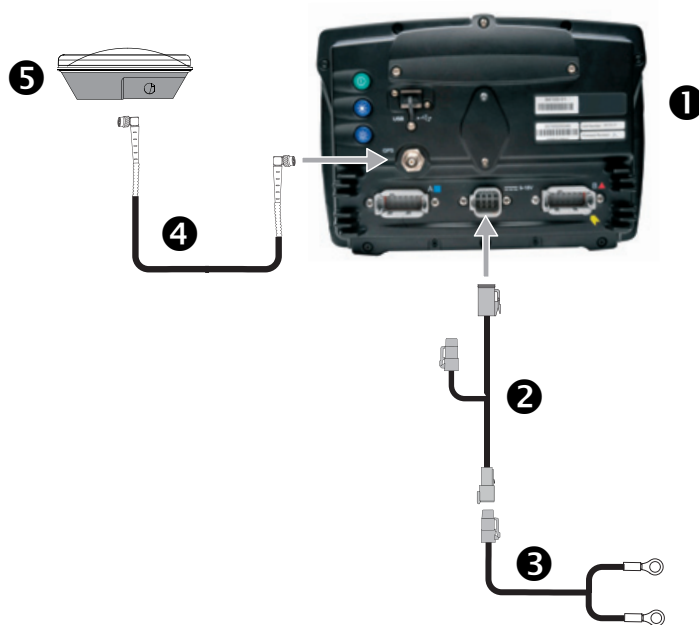
# Connecting the Display Only

## In this chapter:

- Standalone CFX-750 / WAAS / EGNOS / OmniSTAR XP/HP corrections
- Standalone CFX-750 / RTK corrections

## Standalone CFX-750 / WAAS / EGNOS / OmniSTAR XP/HP corrections

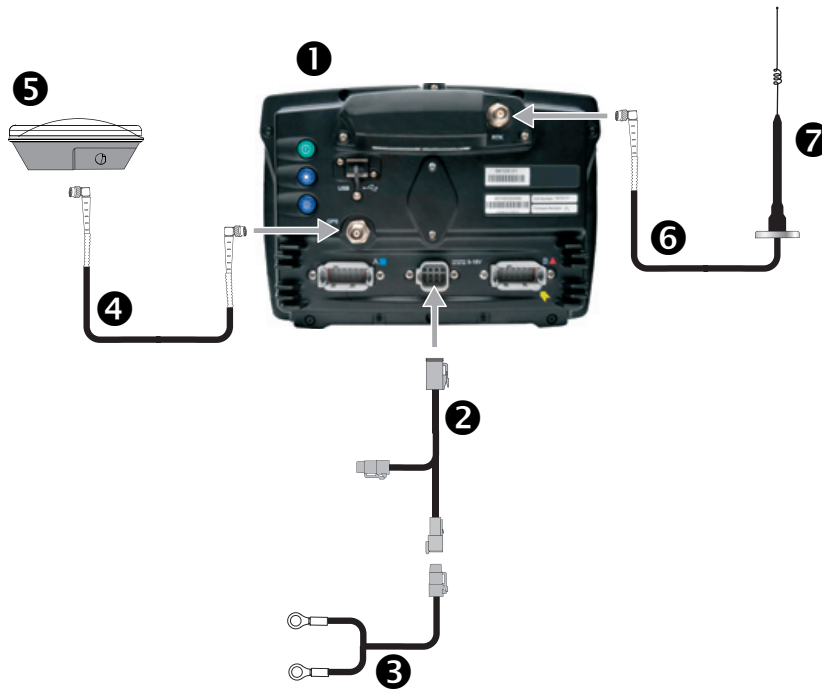
Connecting the CFX-750 display to use WAAS or XP/HP corrections:



Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 basic power cable	67258
4	8 m GPS TNC/TNC RT angle cable	50449
5	Ag25 GNSS antenna	77038-00

## Standalone CFX-750 / RTK corrections

Connecting a standalone CFX-750 display to use RTK corrections:



Item	Description	Trimble part number
1	CFX-750 display <b>Note</b> – RTK password required.	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 basic power cable	67258
4	8 m GPS TNC/TNC RT angle cable	50449
5	Ag25 GNSS antenna	77038-00
6	NMO to TNC 20ft antenna cable and base	62120
7	900 MHz radio antenna kit	22882-10



## Connecting to an EZ-Steer System

### In this chapter:

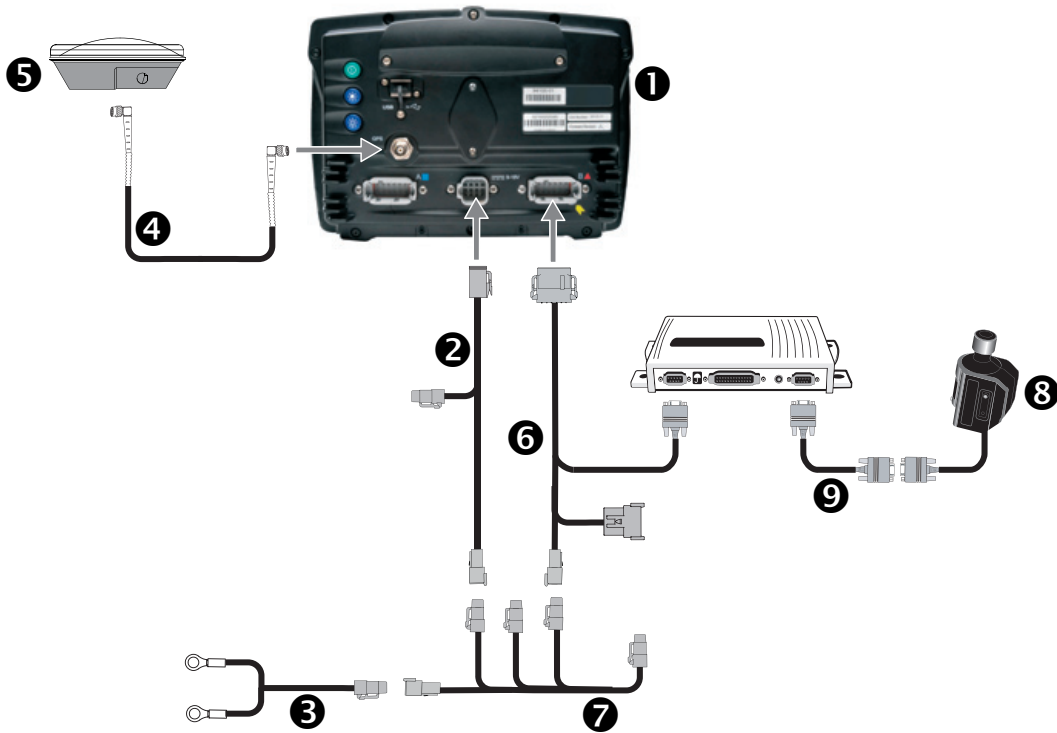
- CFX-750 / EZ-Steer / WAAS / EGNOS corrections / power bus
- CFX-750 / EZ-Steer / WAAS / EGNOS corrections with external power leads

This chapter describes how to connect the CFX-750 display to an EZ-Steer system.

***Note** – To use an EZ-Steer system with the CFX-750, order the 'EZ-Steer system for CFX-750 display kit' (P/N 62000-51), **not** the 'EZ-Steer system for EZ-Guide 250 or 500' (P/N 62000-50).*

## CFX-750 / EZ-Steer / WAAS / EGNOS corrections / power bus

Connecting the CFX-750 display and the EZ-Steer<sup>®</sup> assisted steering system with power bus cabling:



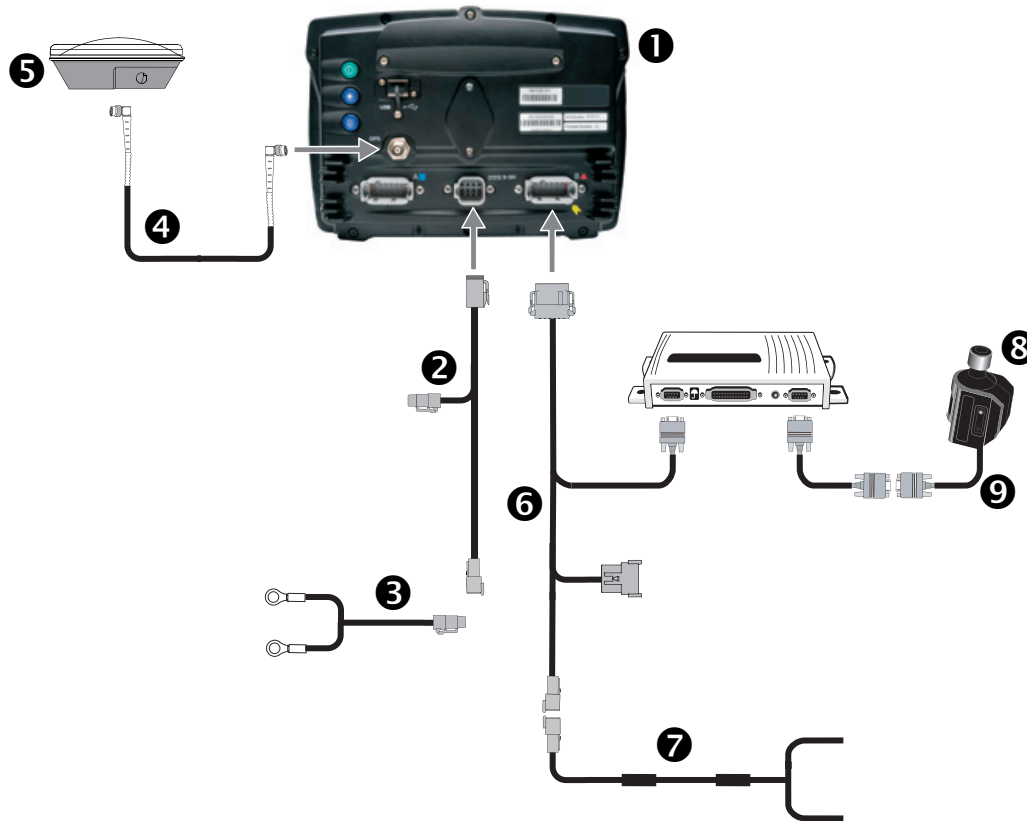
Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 basic power cable	67258
4	8 m GPS TNC/TNC RT angle cable	50449
5	AG25 GNSS antenna	77038-00
6	CFX-750 to EZ-Steer cable	75742
7	CFX-750 power cable with relay and switch (power bus)	67259
8	EZ-Steer motor	53058-00
9	EZ-Steer motor cable	62257

*Note* – The EZ-Steer assisted steering system must be powered separately to power the motor.



## CFX-750 / EZ-Steer / WAAS / EGNOS corrections with external power leads

This figure shows an alternative method for connecting the CFX-750 display with the EZ-Steer<sup>®</sup> assisted steering system, without the power bus cabling:



Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 basic power cable	67258
4	8 m GPS TNC/TNC RT angle cable	50449
5	AG25 GNSS antenna	77038-00
6	CFX-750 to EZ-Steer cable	75742
7	Unterminated power cable	75743
8	EZ-Steer motor	53058-00
9	EZ-Steer motor cable	62257

**Note** – The EZ-Steer assisted steering system must be powered separately to power the motor.



# Connecting to an Autopilot System

## In this chapter:

- CFX-750 / Autopilot / WAAS / EGNOS / OmniSTAR XP or HP corrections
- CFX-750 / Autopilot / RTK corrections
- CFX-750 with external switch / Autopilot / RTK corrections
- CFX-750 / Factory ready CNH vehicle
- CFX-750 / Autopilot / AGCO Wheeled Tractors

This chapter shows the different ways to connect the CFX-750 display to an Autopilot automated steering system.



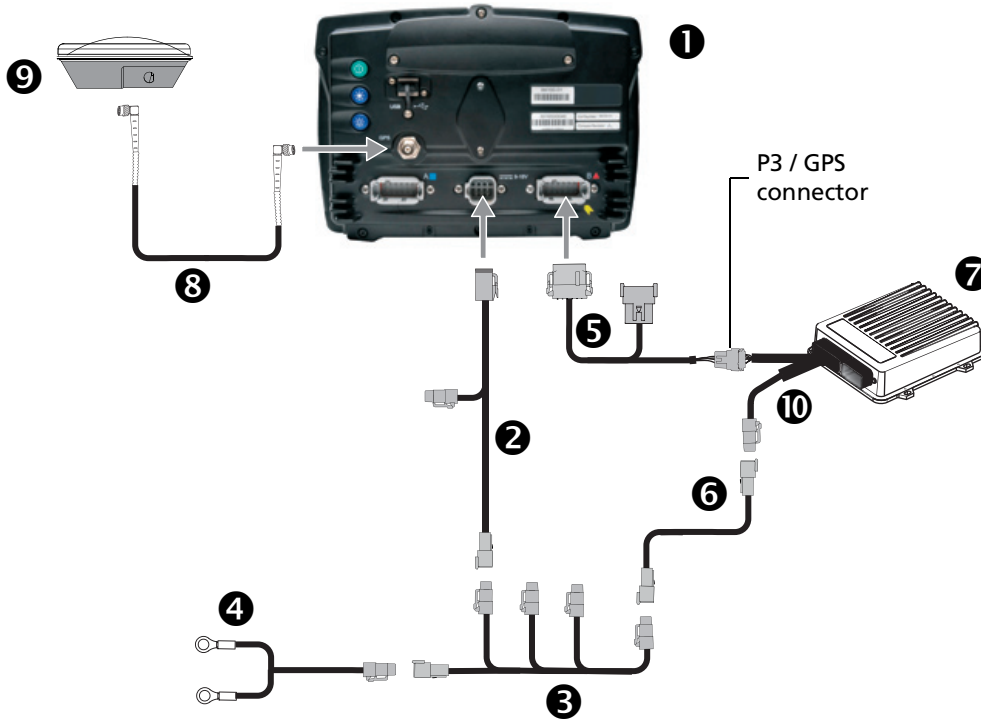
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**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the CFX-750 display, and will void the warranty.

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## CFX-750 / Autopilot / WAAS / EGNOS / OmniSTAR XP or HP corrections

Connecting the CFX-750 display and the Autopilot automated steering system to use WAAS / EGNOS / OmniSTAR XP or HP corrections:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable **5** to the P4 or P12 connector of the NavController II harness **10** will result in damage to the CFX-750 display and will void the warranty.

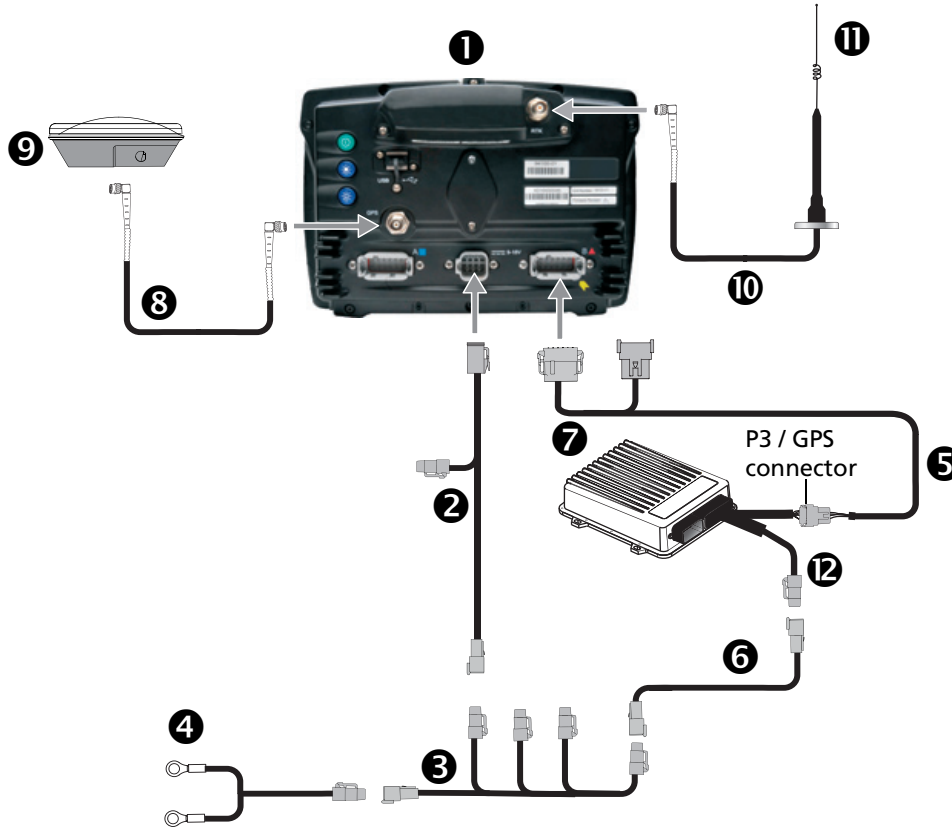
Item	Description	Trimble part number
<b>1</b>	CFX-750 display	94100-xx
<b>2</b>	CFX-750 power cable	77282
<b>3</b>	CFX-750 power cable with relay and switch (power bus) <b>Note</b> – To enable the CFX-750 display to power-up the NavController II, plug the 2-pin Delphi together.	67259
<b>4</b>	Basic power cable	67258
<b>5</b>	CFX-750 to NavController II cable with port replicator	75741
<b>6</b>	2 pin DTM to 2 pin DT power adaptor	67095
<b>7</b>	NavController II	55563-00
<b>8</b>	8 m GPS TNC/TNC RT angle cable	50449

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Item	Description	Trimble part number
9	AG25 GNSS antenna	77038-00
10	Main NavController II cable	54601

## CFX-750 / Autopilot / RTK corrections

Connecting the CFX-750 display with RTK radio to the Autopilot automated steering system:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 12 will result in damage to the CFX-750 display and will void the warranty.

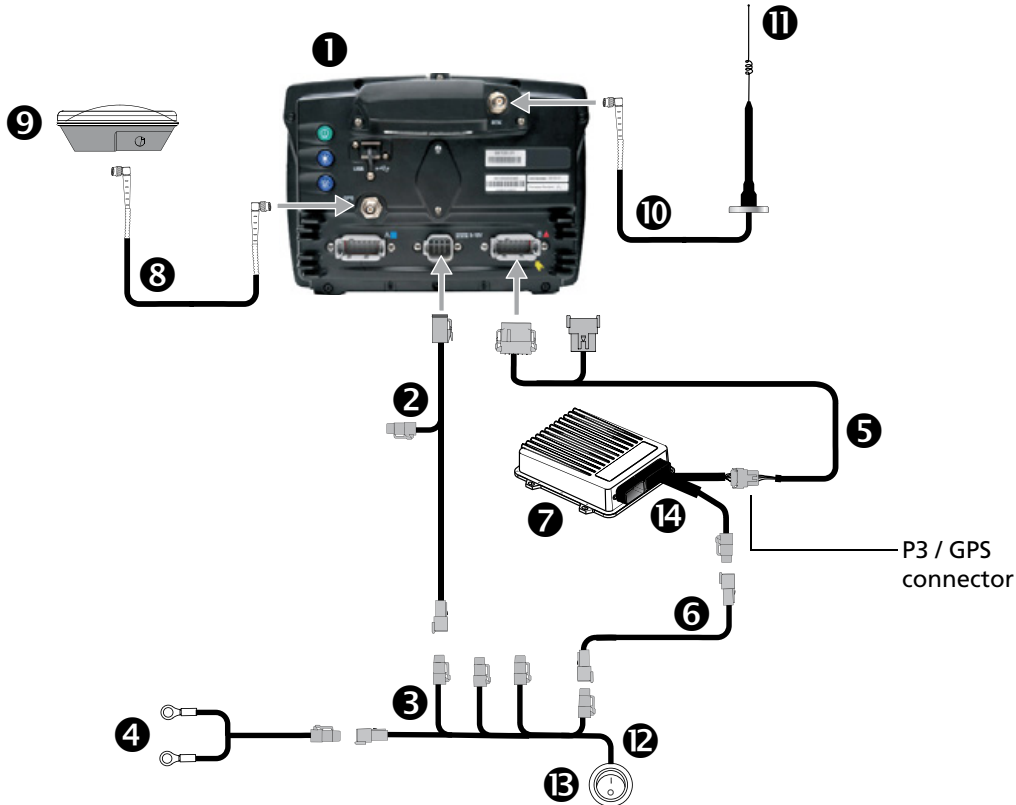
Item	Description	Trimble part number
1	CFX-750 display <b>Note</b> – RTK password required.	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	CFX-750 to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00
8	8 m GPS TNC/TNC RT angle cable	50449
9	AG25 GNSS antenna	77038-00

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Item	Description	Trimble part number
⑩	NMO to TNC 20ft antenna cable and base	62120
⑪	900 MHz radio antenna kit	22882-10
⑫	Main NavController II cable	54601

## CFX-750 with external switch / Autopilot / RTK corrections

Connecting the CFX-750 display with RTK radio and the Autopilot automated steering system (that is controlled by an external switch):



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 14 will result in damage to the CFX-750 display and will void the warranty.

Item	Description	Trimble part number
1	CFX-750 display <b>Note</b> – RTK password required.	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	CFX-750 to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00
8	8 m GPS TNC/TNC RT angle cable	50449

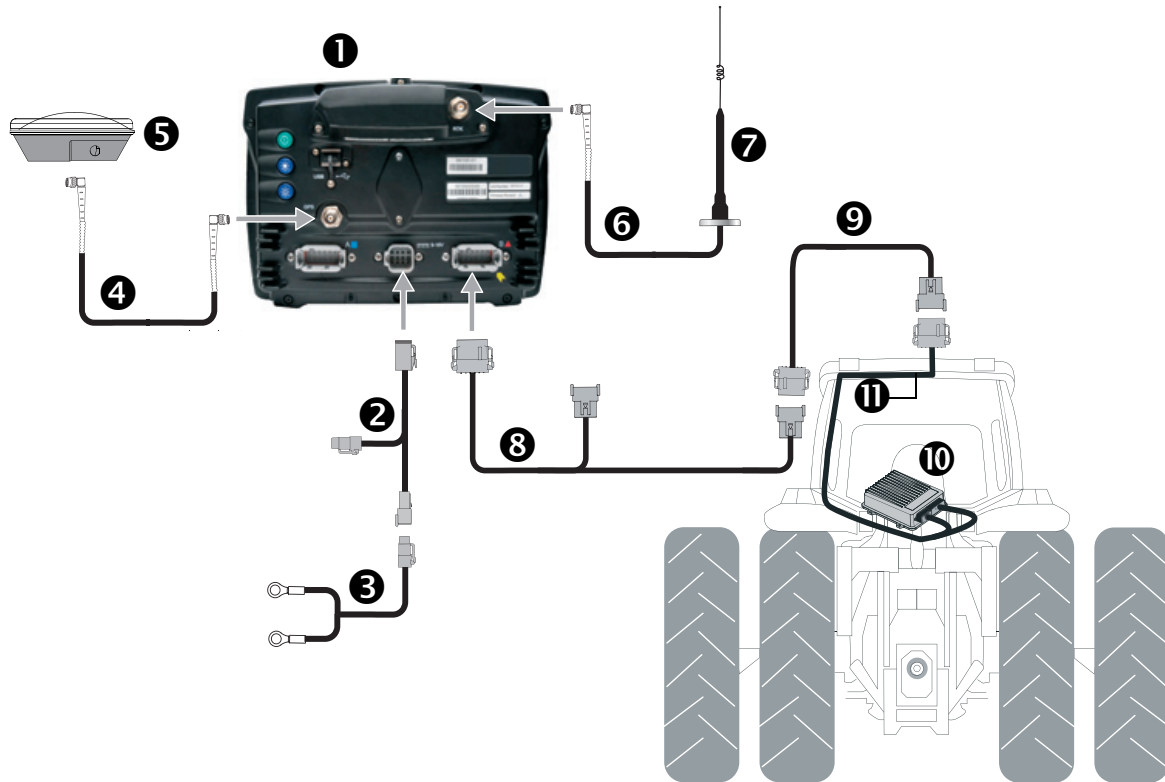


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<b>Item</b>	<b>Description</b>	<b>Trimble part number</b>
⑨	AG25 GNSS antenna	77038-00
⑩	NMO to TNC 20ft antenna cable and base	62120
⑪	900 MHz radio antenna kit	22882-10
⑫	External switch cable included with kit	Part of P/N 67259
⑬	External switch included with kit	Part of P/N 67259
⑭	Main NavController II cable	54601

## CFX-750 / Factory ready CNH vehicle

Connecting the CFX-750 display with RTK radio to a factory ready CNH vehicle:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable ⑧ to the P4 connector of the NavController II harness will result in damage to the CFX-750 display and will void the warranty.

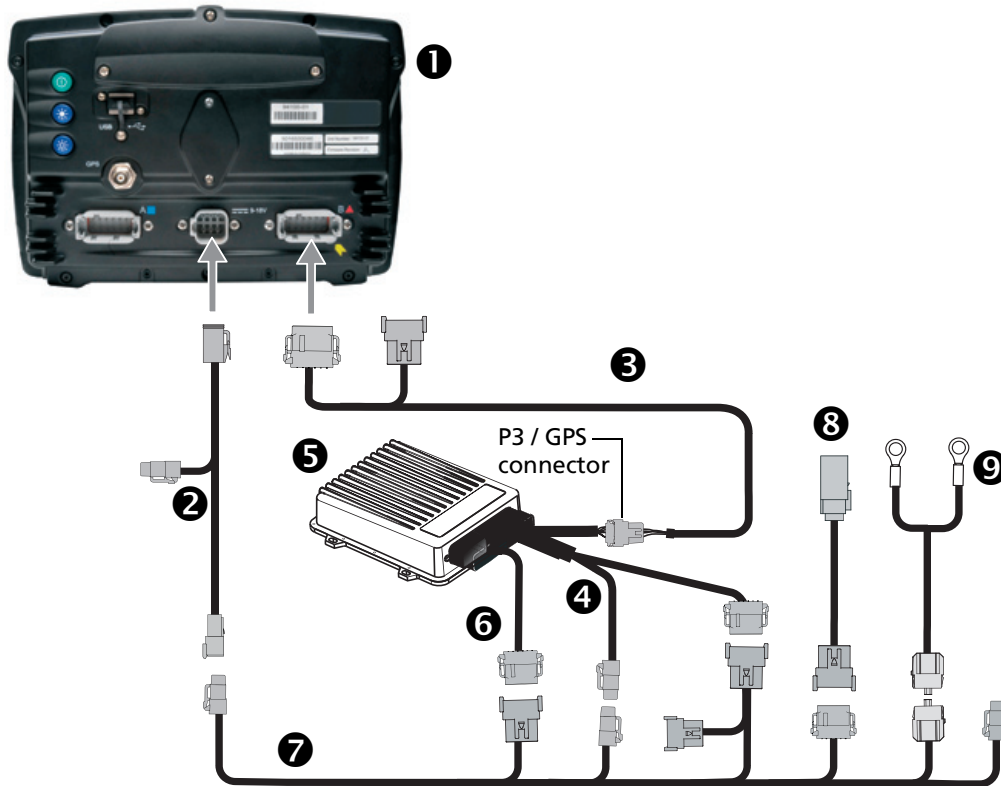
Item	Description	Trimble part number
①	CFX-750 display <b>Note</b> – RTK password required.	94100-xx
②	CFX-750 power cable	77282
③	Basic power cable	67258
④	8 m GPS TNC/TNC RT angle cable	50449
⑤	AG25 GNSS antenna	77038-00
⑥	NMO to TNC 20ft antenna cable and base	62120
⑦	900 MHz radio antenna kit	22882-10
⑧	CFX-750 to NavController II cable with port replicator	75741
⑨	CNH hybrid to GPS cable	67120

---

Item	Description	Trimble part number
⑩	NavController II	55563-00
⑪	Factory-installed harness	N/A

## CFX-750 / Autopilot / AGCO Wheeled Tractors

Connecting the CFX-750 display and Autopilot automated steering system to a Challenger MT500/600, an AGCO DT or RT series, or a Massey Ferguson 8x00, 7x00 or 6x00 series vehicle:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable ③ to the P4 or P12 connector of the NavController II harness ④ will result in damage to the CFX-750 display and will void the warranty.

Item	Description	Trimble part number
①	CFX-750 display	94100-xx
②	CFX-750 power cable	77282
③	CFX-750 to NavController II cable with port replicator	75741
④	Main NavController II cable	54601
⑤	NavController II	55563-00
⑥	NavController II auxiliary cable	54602
⑦	Autopilot to AGCO power and CAN interface cable	77644 (incl w/ kit 77648)
⑧	Adaptor for early Autoguide models (optional)	77647 (incl w/ kit 77648)
⑨	Power adaptor for early Autoguide models (optional)	77646 (incl w/ kit 77648)

# Connecting the Field-IQ Crop Input Control System

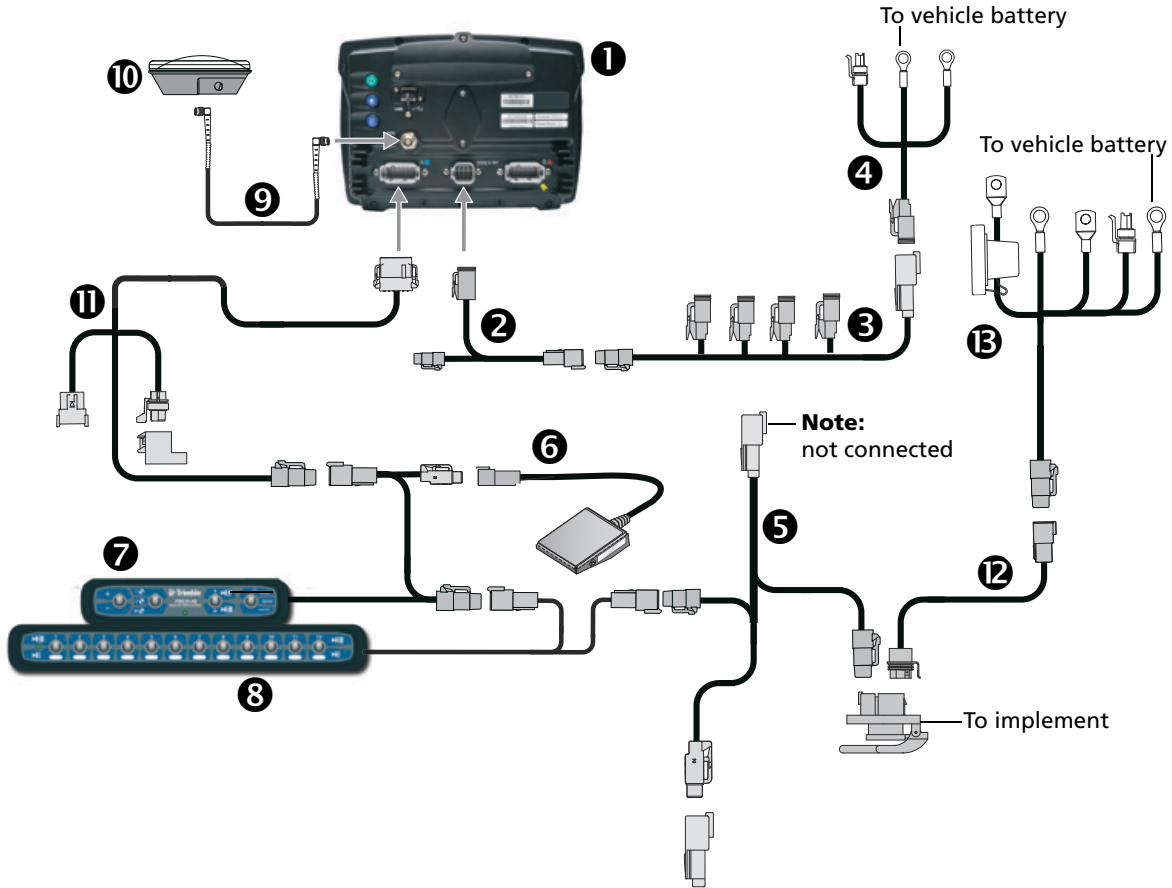
## In this chapter:

- CFX-750 / Field-IQ cab kit / Powell hitch connector
- CFX-750 / Field-IQ cab kit / Powell hitch connector / power relay
- Field-IQ / Rawson Par 2 drives / Tru Count Air Clutch
- CFX-750 / Field-IQ cab kit / Rawson PAR 40
- CFX-750 / Autopilot / Field-IQ cab kit / Rawson PAR 40 / RTK Corrections
- CFX-750 / Field-IQ Rate and Section control to Raven 4x0 or EZ-Boom harness
- CFX-750 / Field-IQ Section Control only to the Raven 4x0
- CFX-750 / Field-IQ Rate and Section Control to Raven 4x00
- CFX-750 / Field-IQ Rate and Section Control for CaseIH SPX (2009 and later) sprayers
- CFX-750 / Field-IQ Rate and Section Control to AGCO RoGator (2007 and later)
- CFX-750 / Field-IQ cab kit / NH3 and liquid application, using full harness
- CFX-750 / Autopilot / Field-IQ cab kit / Spreader

This chapter shows the different ways to connect the CFX-750 display to the Field-IQ crop input control system.

## CFX-750 / Field-IQ cab kit / Powell hitch connector

Connecting the CFX-750 display and the Field-IQ cab kit, while using a Powell hitch connector.



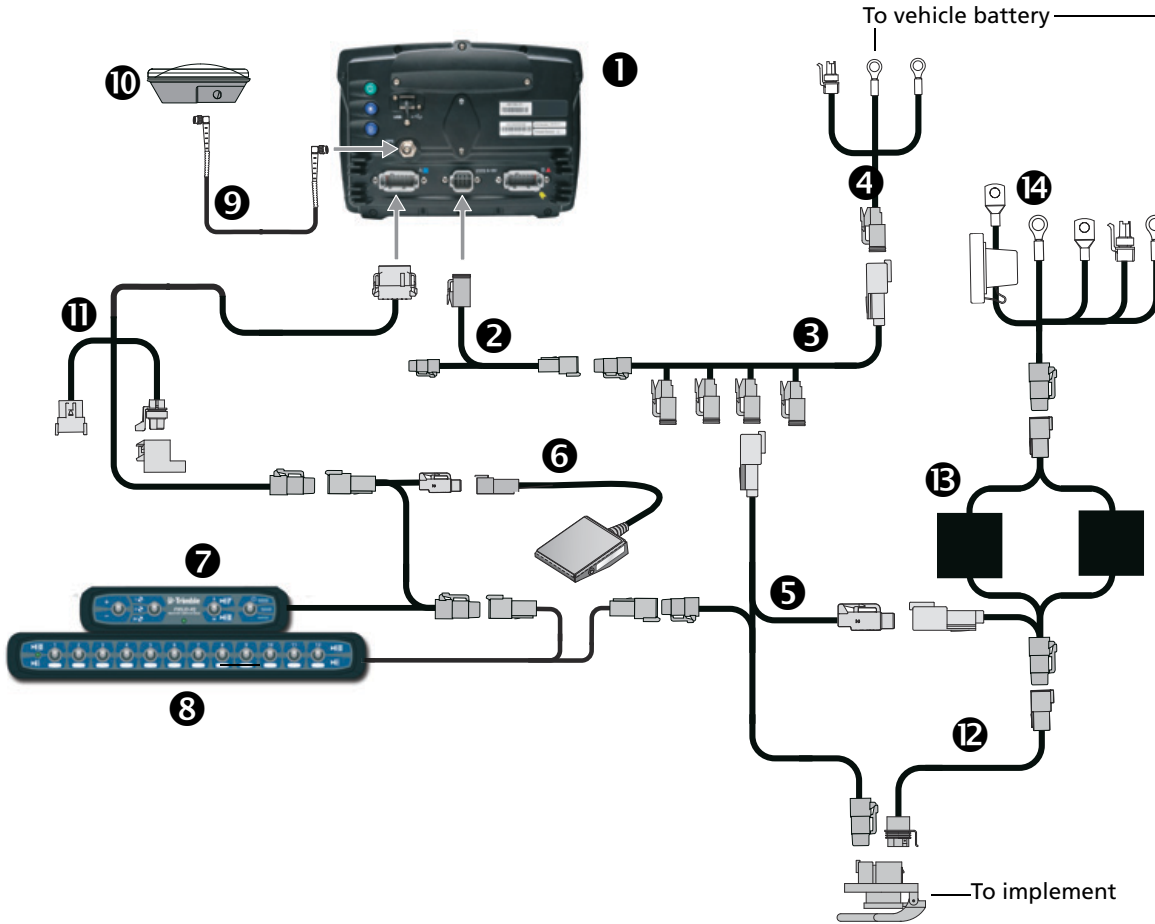
Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	Cab to hitch CAN cable	77368
6	Remote foot switch (optional)	78150
7	Field-IQ master switch box	75050-01
8	12 section switch box (optional)	75060-01
9	8m TNC/TMC right-angle GPS cable	50449
10	AG25 GNSS antenna	77038-00
11	CFX-750 display to Field-IQ cable	75834

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Item	Description	Trimble part number
12	Powell Quick Disconnect – Tractor Side (optional)	77413
13	Power to cab cable	76941

## CFX-750 / Field-IQ cab kit / Powell hitch connector / power relay

Connecting the CFX-750 display with the Field-IQ cab kit and power relay while using a Powell hitch connector.



Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	Cab to hitch CAN cable	77368
6	Remote foot switch (optional)	78150
7	Field-IQ master switch box	75050-01
8	12 section switch box (optional)	75060-01
9	8m TNC/TMC right-angle GPS cable	50449
10	AG25 GNSS antenna	77038-00

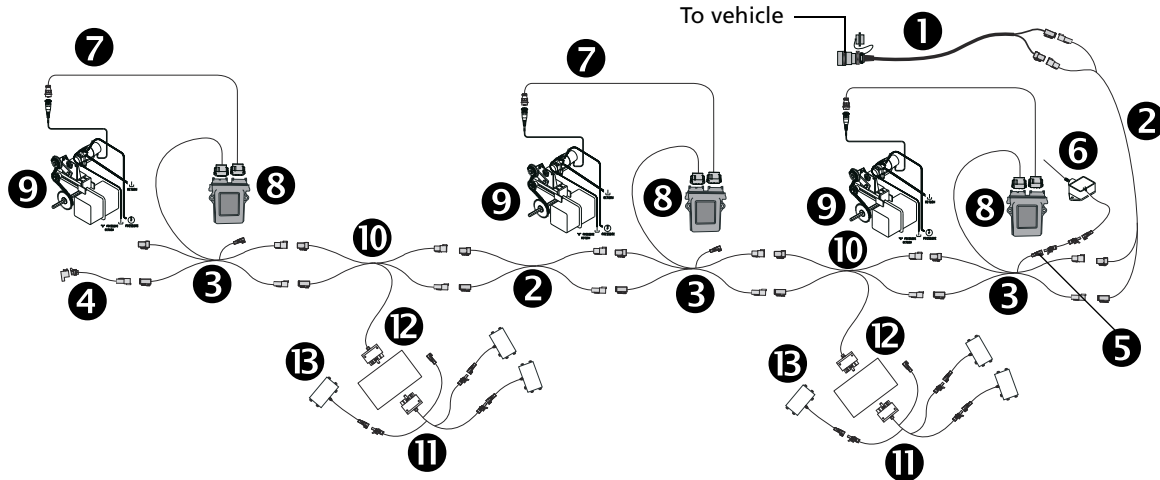


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<b>Item</b>	<b>Description</b>	<b>Trimble part number</b>
①	CFX-750 display to Field-IQ cable	75834
②	Powell Quick Disconnect – Tractor Side (optional)	77413
③	Dual relay power cutoff cable	77533
④	Power to cab cable	76941

## Field-IQ / Rawson Par 2 drives / Tru Count Air Clutch

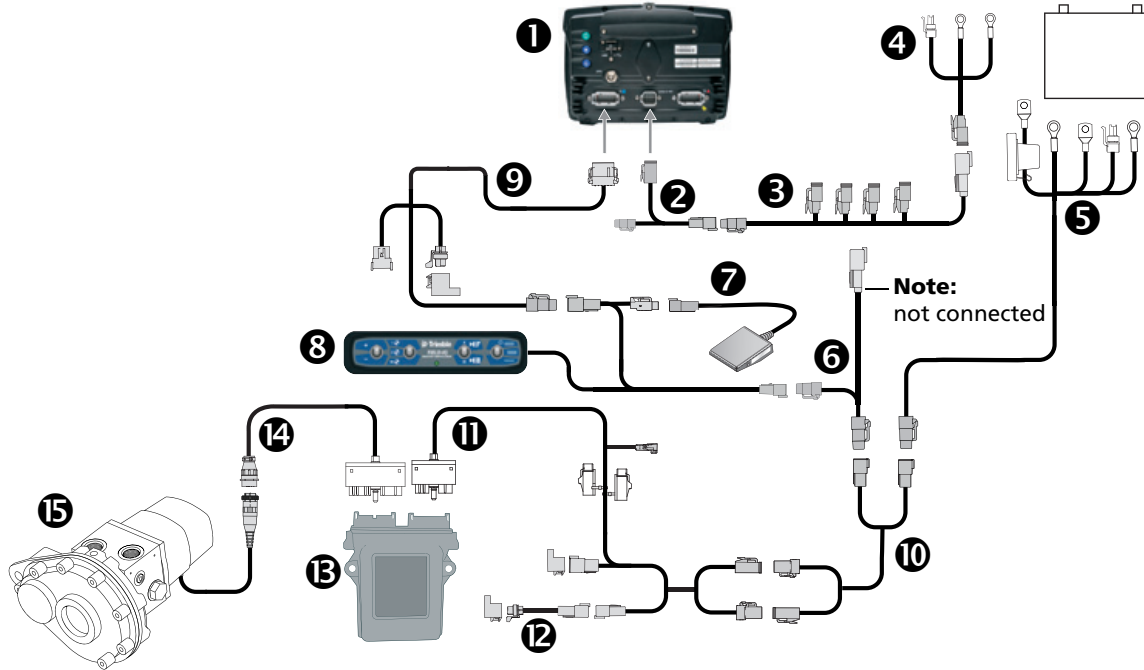
This figure shows how to connect the Field-IQ system with the Rawson Par 2 drive, and the Tru Count Air Clutch®:



Item	Description	Trimble part number
1	Powell Quick Disconnect – Implement Side (optional)	77611
2	CAN/power extension cable	75528-xx
3	Rawson module T-cable	75527
4	Implement terminator kit (includes 75491)	75529
5	20' Implement switch extension cable	77542
6	Whisker switch	77636
7	Rawson motor CPC to DTM cable	75531
8	Rawson control module	75070-00
9	Rawson PAR 2 motor	300499
10	Section module tee	75524
11	Switching module to valve module cable	76859
12	Switch control module	75774-05
13	Tru Count module	68355-00

## CFX-750 / Field-IQ cab kit / Rawson PAR 40

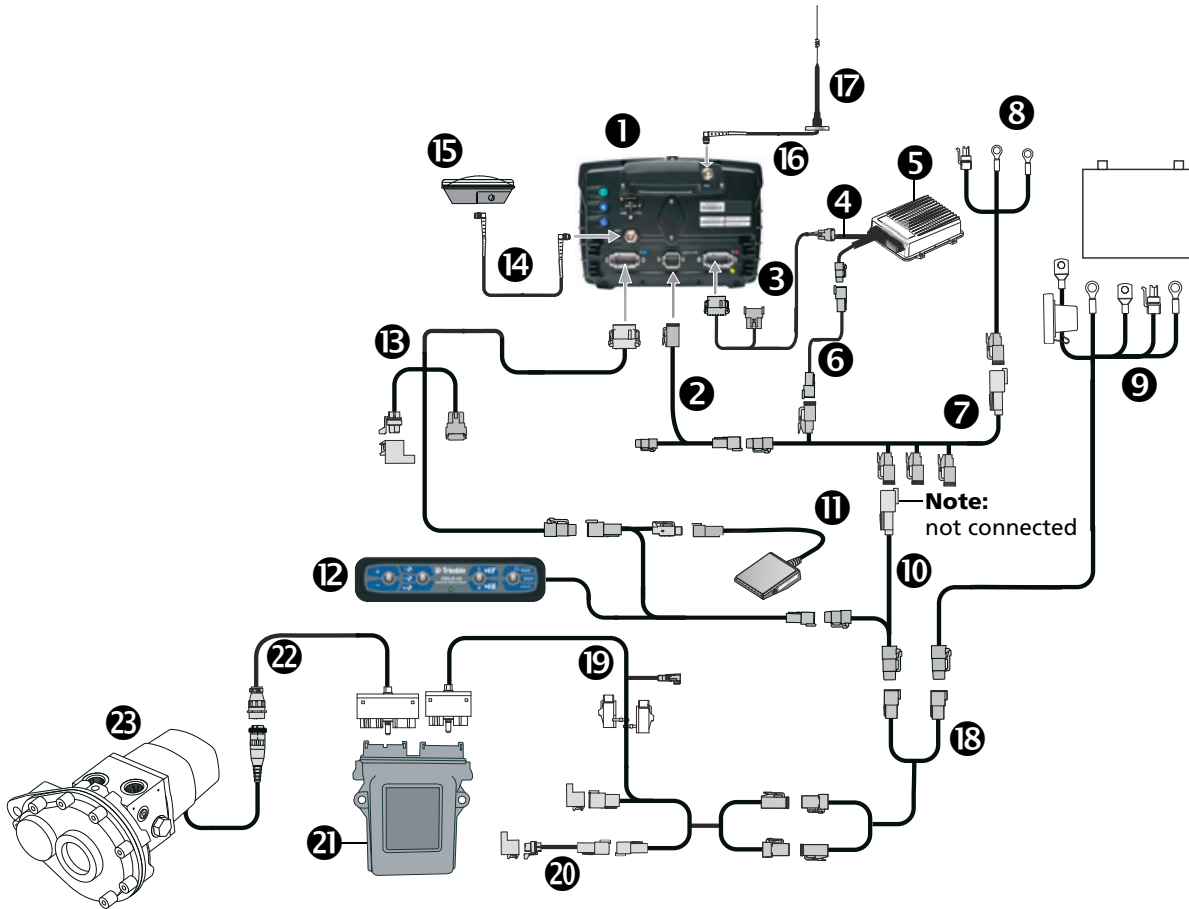
Connecting the CFX-750 display with the Field-IQ cab kit and the Rawson™ PAR 40 motor:



Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	Power to cab cable	76941
6	Cab to hitch CAN cable	77368
7	Remote foot switch (optional)	78150
8	Field-IQ master switch box	75050-01
9	CFX-750 display to Field-IQ cable	75834
10	CAN/power extension cable	75528-xx
11	Rawson module Tee cable	75527
12	Implement terminator kit (includes 75491)	75529
13	Rawson control module	75070-00
14	Rawson motor CPC to DTM cable	75531
15	Rawson PAR 40 motor	304152

## CFX-750 / Autopilot / Field-IQ cab kit / Rawson PAR 40 / RTK Corrections

Connecting the CFX-750 display with RTK radio to the Autopilot system, the Field-IQ cab kit and the Rawson™ PAR 40 motor:



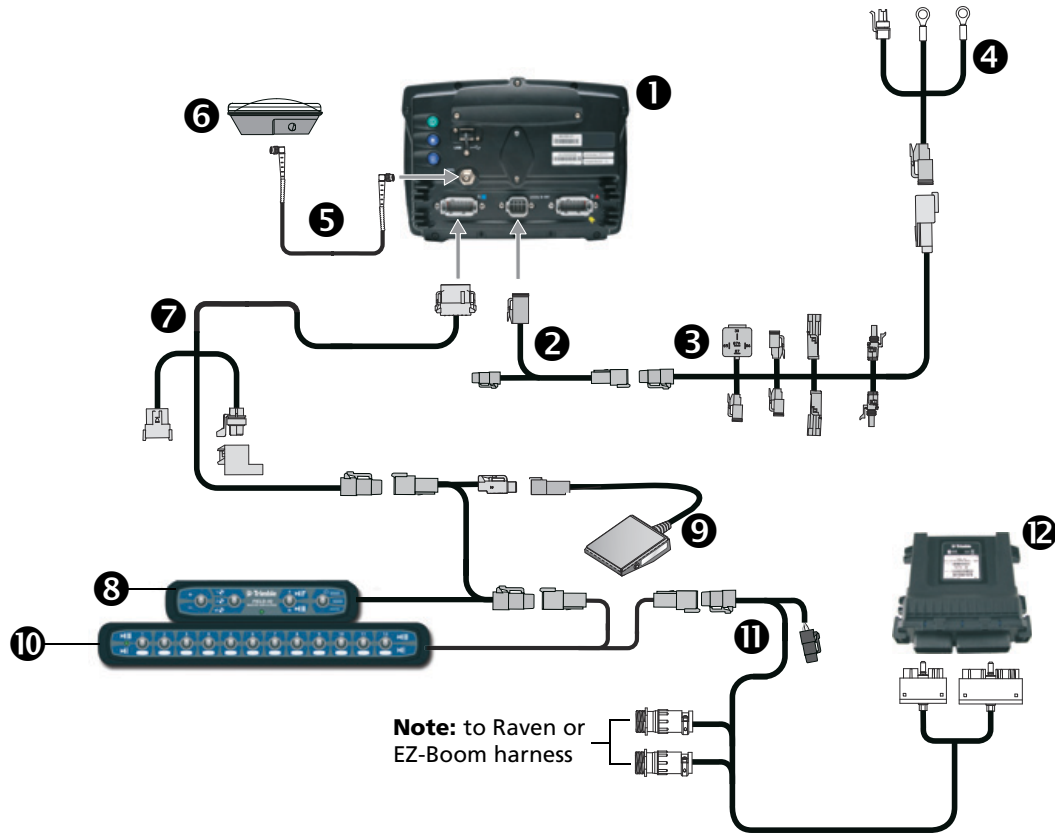
**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable ③ to the P4 or P12 connector of the NavController II harness ④ will result in damage to the CFX-750 display and will void the warranty.

Item	Description	Trimble part number
①	CFX-750 display <b>Note</b> – RTK password required.	94100-xx
②	CFX-750 power cable	77282
③	CFX-750 to NavController II cable with port replicator	75741
④	Main NavController II cable	54601
⑤	NavController II	55563-00

Item	Description	Trimble part number
6	2 pin DTM to 2 pin DT power adaptor	67095
7	CFX-750 power cable with relay and switch (power bus)	67259
8	Basic power cable	67258
9	Power to cab cable	76941
10	Cab to hitch CAN cable	77368
11	Remote foot switch (optional)	78150
12	Field-IQ master switch box	75050-01
13	CFX-750 display to Field-IQ cable	75834
14	8 m GPS TNC/TNC RT angle cable	50449
15	AG25 GNSS antenna	77038-00
16	NMO to TNC 20ft antenna cable and base	62120
17	900 MHz radio antenna kit	22882-10
18	CAN to power extension cable	75528-xx
19	Rawson module Tee cable	75527
20	Implement terminator kit (includes 75491)	75529
21	Rawson control module	75070-00
22	Rawon motor CPC to DTM cable	75531
23	Rawson PAR 40 motor	304152

## CFX-750 / Field-IQ Rate and Section control to Raven 4x0 or EZ-Boom harness

Connecting the CFX-750 display with Field-IQ Rate and Section Control and the Raven 4x0 controller or EZ-Boom harness.



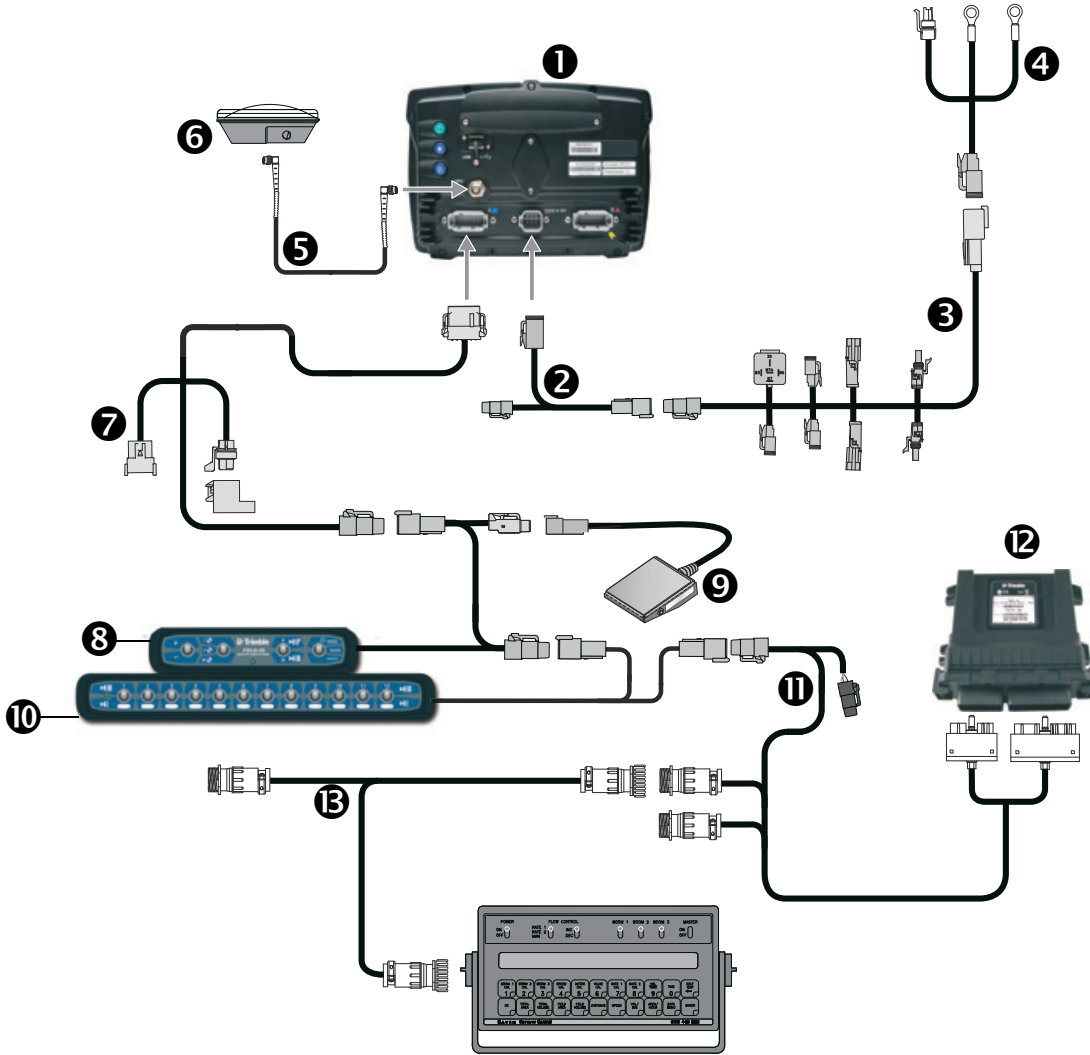
Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	Power bus	67259
4	Basic power cable	67258
5	8 m GPS TNC/TNC RT angle cable	50449
6	AG25 GNSS antenna	77038-00
7	Display-to-Field-IQ cable	75834
8	Field-IQ master switch box	75050-01
9	Remote foot switch (optional)	78150
10	12 section switch box	75060-01

---

Item	Description	Trimble part number
①	Rate and Section Control module adapter cable	75503
②	Rate and Section Control module	75774-00

## CFX-750 / Field-IQ Section Control only to the Raven 4x0

Connecting the CFX-750 display with Field-IQ Section Control only to the Raven 4x0 controller.



Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	Power bus	67259
4	Basic power cable	67258
5	8 m GPS TNC/TNC RT angle cable	50449
6	AG25 GNSS antenna	77038-00
7	Display-to-Field-IQ cable	75834
8	Field-IQ master switch box	75050-01



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<b>Item</b>	<b>Description</b>	<b>Trimble part number</b>
⑨	Remote foot switch (optional)	78150
⑩	12 section switch box	75060-01
⑪	Rate and Section Control module adapter cable	75503
⑫	Rate and Section Control module	75774-00
⑬	Raven-to- EZ-Boom system 4x0 T-cable	79514

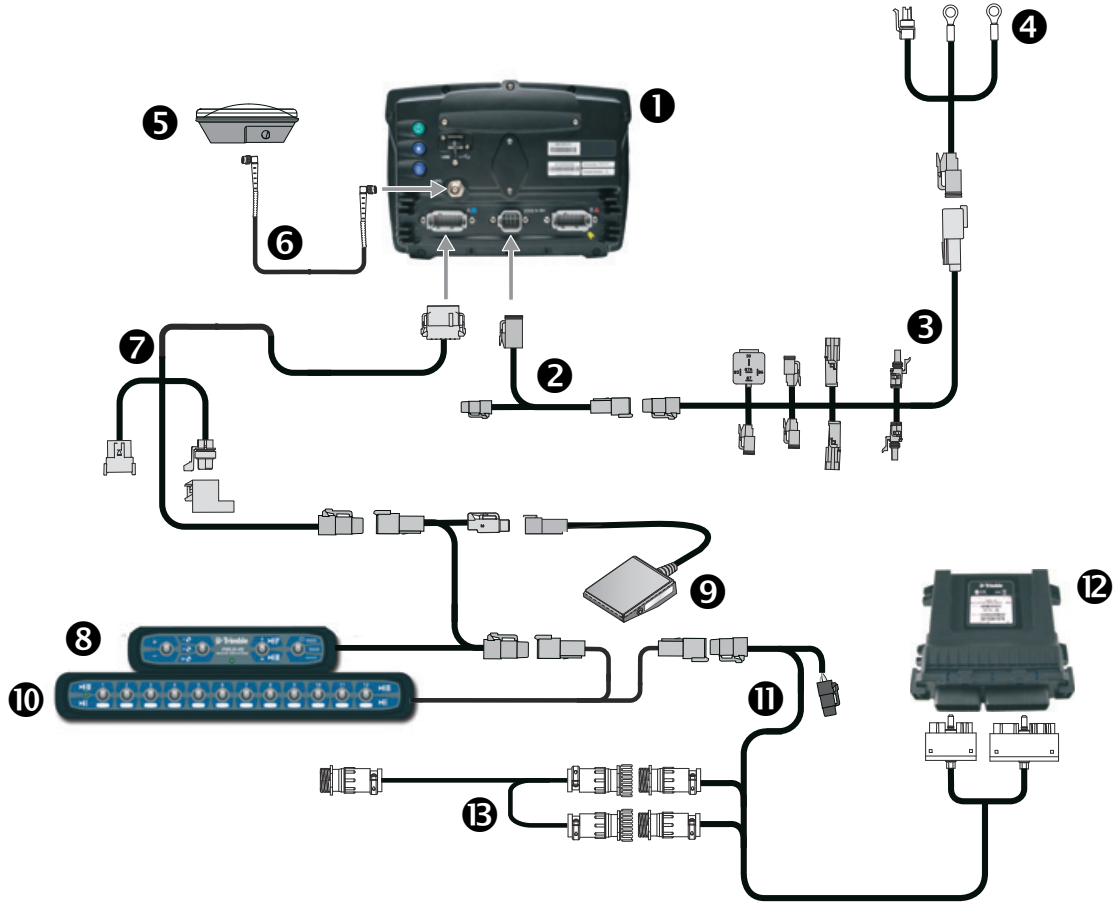


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<b>Item</b>	<b>Description</b>	<b>Trimble part number</b>
⑨	Remote foot switch (optional)	78150
⑩	12 section switch box	75060-01
⑪	Rate and Section Control module adapter cable	79854
⑫	Rate and Section Control module	75774-00

## CFX-750 / Field-IQ Rate and Section Control to Raven 4x00

Connecting the CFX-750 display to Field-IQ Rate and Section Control and the Raven 4x00 controller.



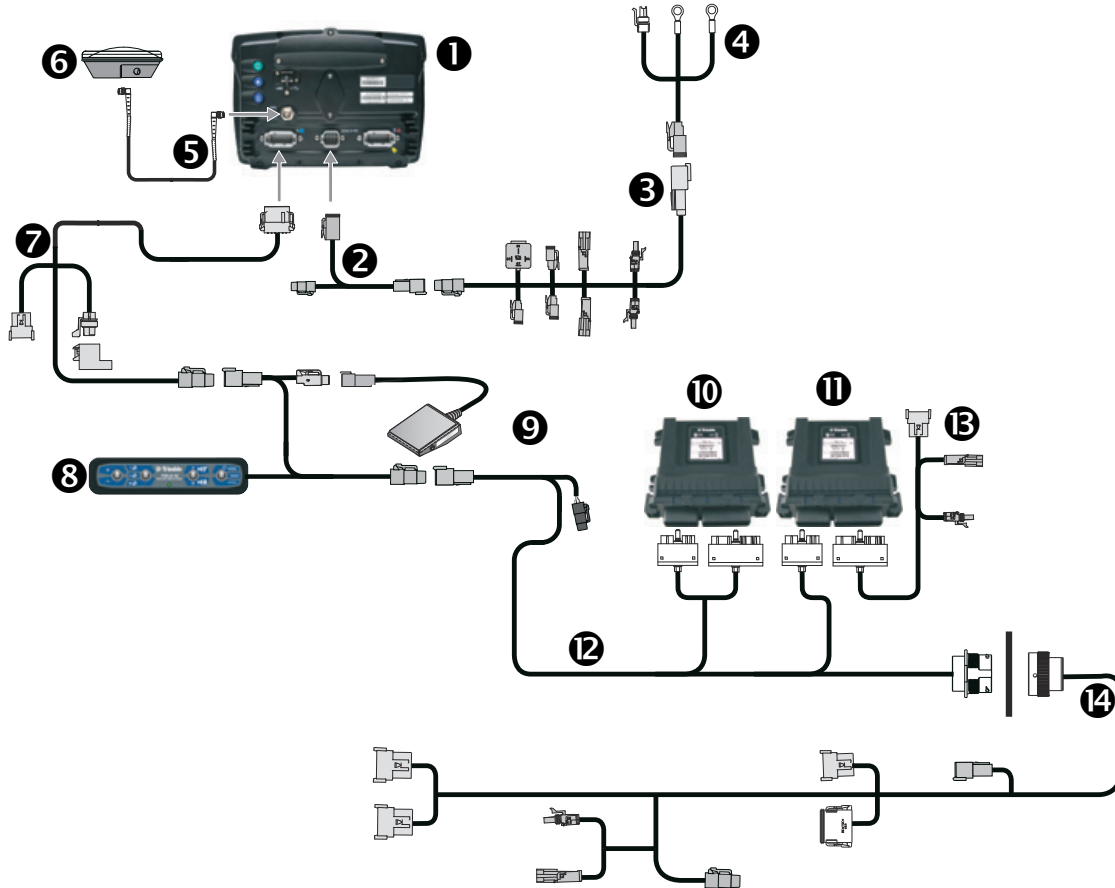
Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	Power bus	67259
4	Basic power cable	67258
5	8 m GPS TNC/TNC RT angle cable	50449
6	AG25 GNSS antenna	77038-00
7	Display-to-Field-IQ cable	75834
8	Field-IQ master switch box	75050-01
9	Remote foot switch (optional)	78150
10	12 section switch box	75060-01
11	Rate and Section Control module adapter cable	75503

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Item	Description	Trimble part number
12	Rate and Section Control module	75774-00
13	Raven 4x0-to-4x00 harness adapter cable	59943

## CFX-750 / Field-IQ Rate and Section Control for CaseIH SPX (2009 and later) sprayers

Connecting the CFX-750 display with Field-IQ Rate and Section Control for Case IH SPX sprayers:



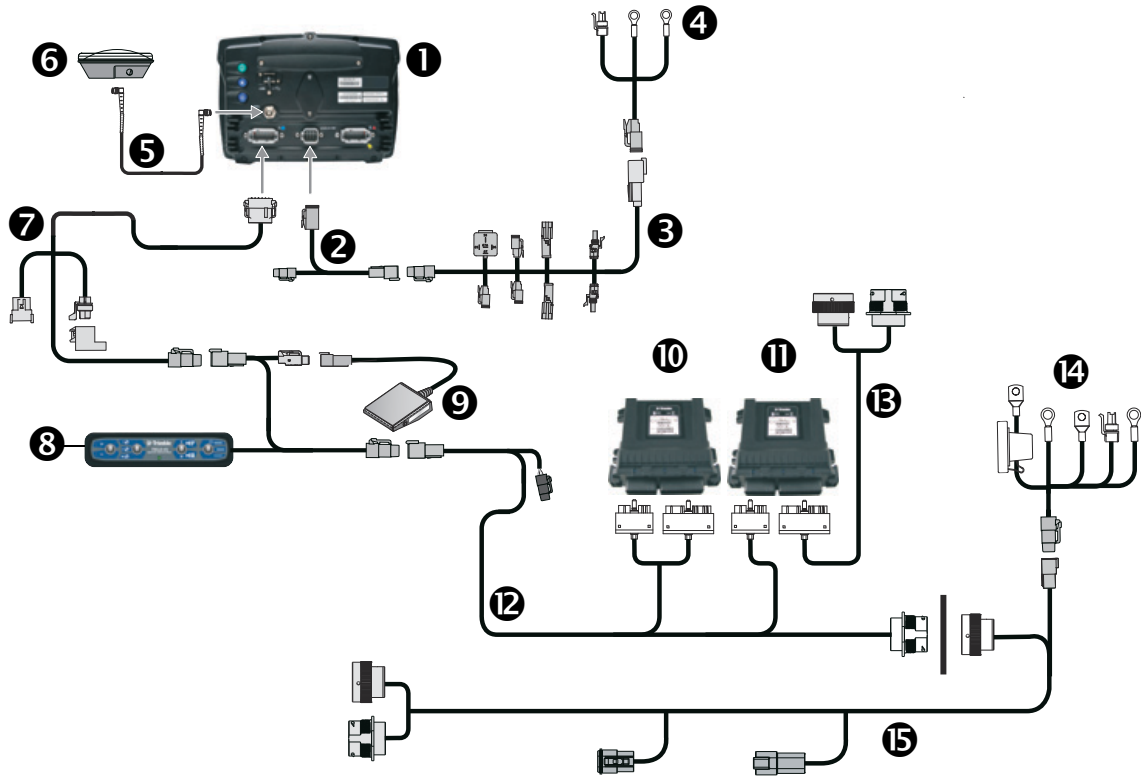
Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	FmX to NavController II cable with port replicator	75741
4	Main NavController II cable	54601
5	NavController II	55563-00
6	2 pin DTM to 2 pin DT power adaptor	67095
7	FmX power cable with relay and switch (power bus)	67259
8	Basic power cable	67258
9	Remote foot switch (optional)	78150
10	Rate and section control module	75774-00

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<b>Item</b>	<b>Description</b>	<b>Trimble part number</b>
①	Signal input module	76774-00
②	Field-IQ-to-sprayer cab cable	80099
③	Field-IQ SPX switch input cable (2009 and later)	80254
④	Field-IQ SPX chassis harness cable (2009 and later)	80250

## CFX-750 / Field-IQ Rate and Section Control to AGCO RoGator (2007 and later)

Connecting the CFX-750 display with Field-IQ Rate and Section Control to the AGCO RoGator:



Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	FmX to NavController II cable with port replicator	75741
4	Main NavController II cable	54601
5	NavController II	55563-00
6	2 pin DTM to 2 pin DT power adaptor	67095
7	FmX power cable with relay and switch (power bus)	67259
8	Basic power cable	67258
9	Remote foot switch (optional)	78150
10	Rate and section control module	75774-00
11	Signal input module	76774-00
12	Field-IQ-to-sprayer cab cable	80099
13	Field-IQ-to-RoGator switch input cable	80417

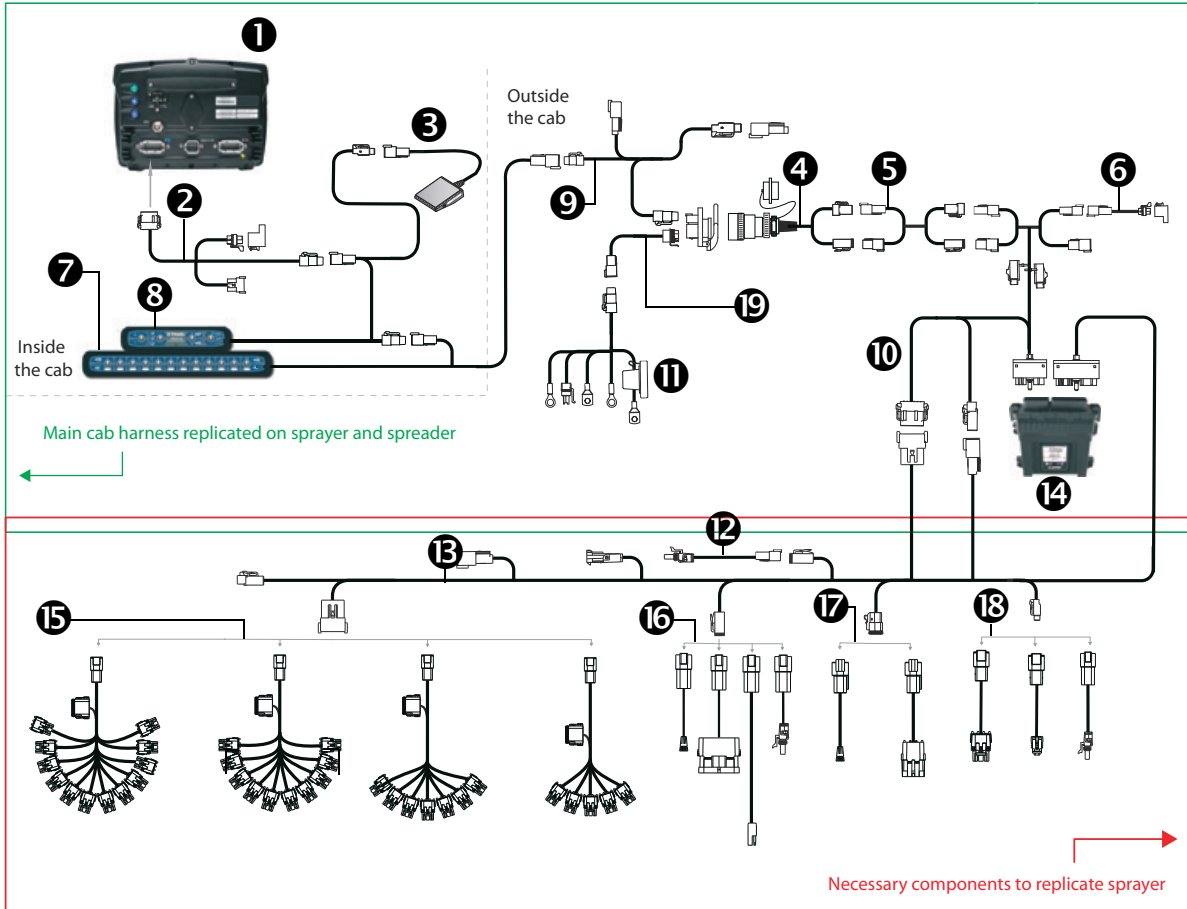


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Item	Description	Trimble part number
14	Power to cab cable	76941
15	Field-IQ-to-RoGator chassis harness cable	80417

## CFX-750 / Field-IQ cab kit / NH3 and liquid application, using full harness

Connecting the CFX-750 display to the Field-IQ cab kit and the Rate and section control module with full NH3/liquid harness:

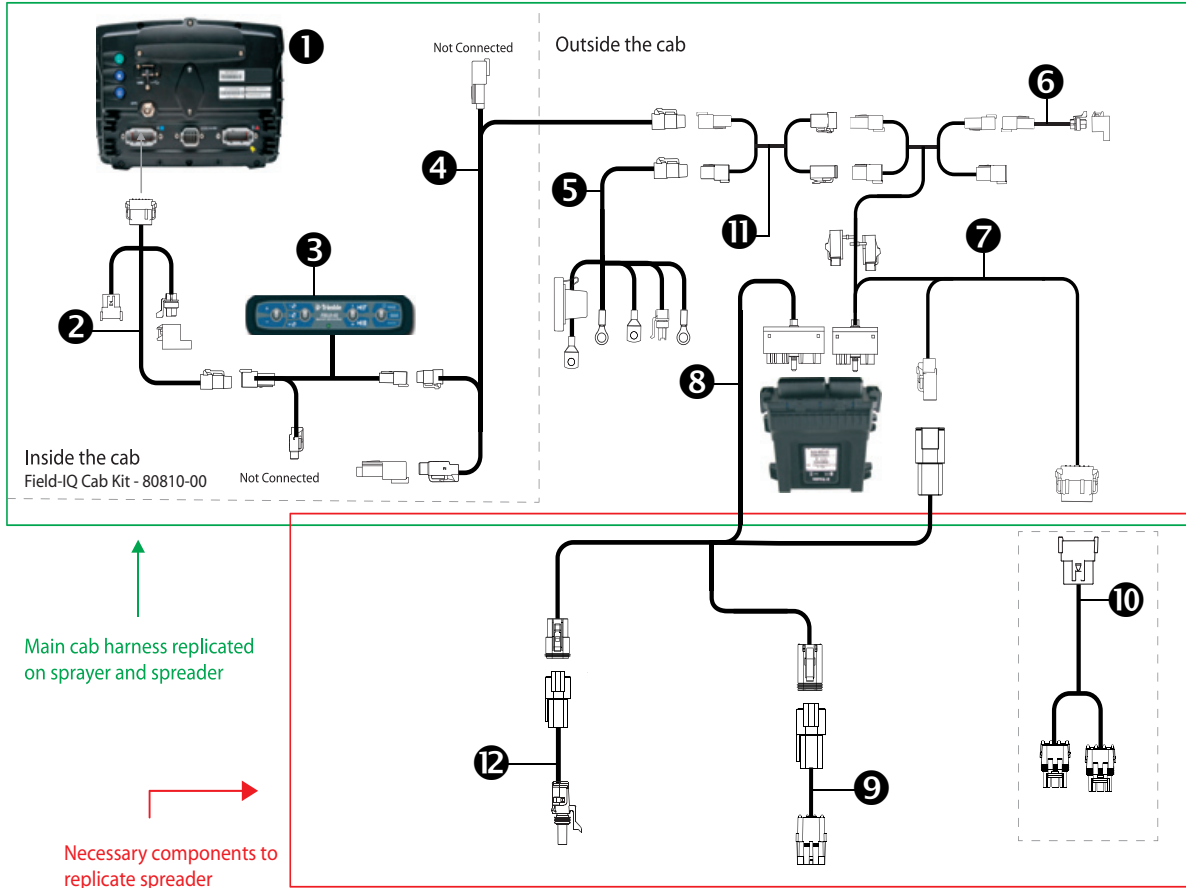


Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	Display to Field-IQ cable	75834
3	Optional: Remote foot switch	78150
4	Implement harness (Powell adapter) - implement side (optional)	77611-01
5	CAN/power extension cable	75528-xx
6	Field-IQ implement terminator adapter	75529
7	Field-IQ 12-section switch box	75060-01
8	Field-IQ master switch box	75050-01
9	Cab to hitch CAN cable	77368
10	Power/CAN bus harness	75526
11	Power to cab cable	76941

Item	Description	Trimble part number
12	Raven on/off valve adapter	81023
13	Field-IQ Rate and Section implement adapter	80540
14	Rate and section control module	75774-00
15	Section valve adapter cable (left to right): - Field-IQ 12 section Raven adapter (3 wire) - Field-IQ 10 section Raven adapter (3 wire) - Field-IQ 7 section Raven adapter (3 wire) - Field-IQ 5 section Raven adapter (3 wire)	80961 78225 77541 80587
16	Flow control adapter cable (left to right): - Field-IQ to Raven Fast Valve - Field-IQ to Dickey-john control valve (6 pin) - Field-IQ to Raven control valve adapter (2 pin) - Dickey-john PWM control valve adapter (2 wire)	80534 80531 80586 80960
17	Flow meter cable (left to right): - Field-IQ to Raven flowmeter adapter - Field-IQ to Dickey-john encoder/flowmeter	80584 80539
18	Pressure sensor cable (left to right): - Field-IQ to Dickey-john pressure sensor adapter - Field-IQ to Raven pressure sensor adapter - Trimble pressure sensor adapter	80575 80583 84248
19	Powell quick disconnect - tractor side (optional)	77413

## CFX-750 / Autopilot / Field-IQ cab kit / Spreader

Connecting the CFX-750 display with the Field-IQ cab kit and the Rate and Section Control Module for spreader application.



Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	Display to Field-IQ cable	75834
3	Field-IQ master switch box	75050-01
4	Cab to hitch CAN cable	77368
5	Power to cab cable	76941
6	Field-IQ implement terminator adapter	75529
7	Power/CANbus harness	75526
8	Field-IQ universal spreader breakout cable	80553
9	Field-IQ to Dickey-john encoder/flowmeter	80539
10	Field-IQ spreader gate height and spinner speed adapter	80507

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Item	Description	Trimble part number
①	CAN/power extension cable	75528-xx
②	Dickey-john PWM control valve adapter (2 wire)	80960



# Connecting to Radar Output and Serial Control

## In this chapter:

- CFX-750 / Autopilot / radar output / serial variable rate for Raven SCS400 or SCS600
- CFX-750 / Autopilot / radar output / serial variable rate for Rawson
- CFX-750 / Autopilot / radar output / serial variable rate
- CFX-750 / Autopilot / serial connection for Hardi 5500 controller

This chapter shows the different ways to connect the CFX-750 display to equipment from third-party equipment for radar output and serial control.



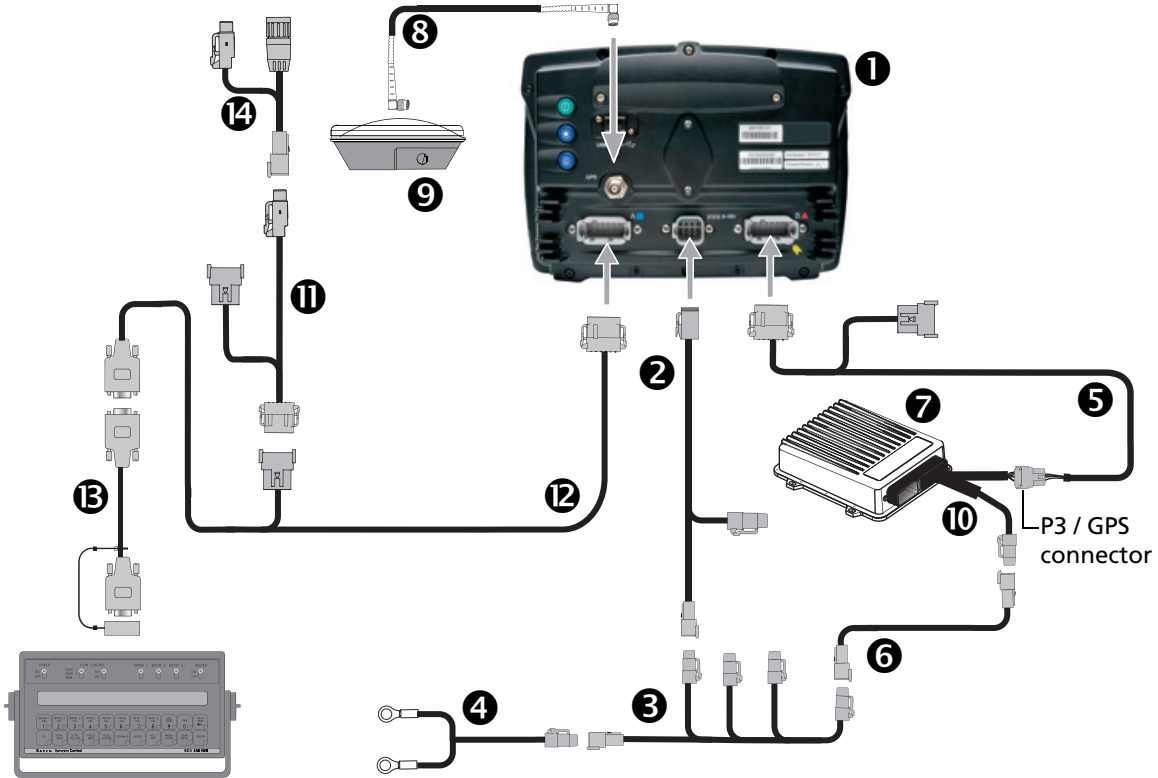
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**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the CFX-750 display and will void the warranty.

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## CFX-750 / Autopilot / radar output / serial variable rate for Raven SCS400 or SCS600

Connecting the CFX-750 display to the Autopilot automated steering system, radar output, and serial variable rate for Raven SCS400 or SCS600:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the CFX-750 display, and will void the warranty.

Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	CFX-750 to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00
8	8 m GPS TNC/TNC RT angle cable	50449
9	AG25 GNSS antenna	77038-00

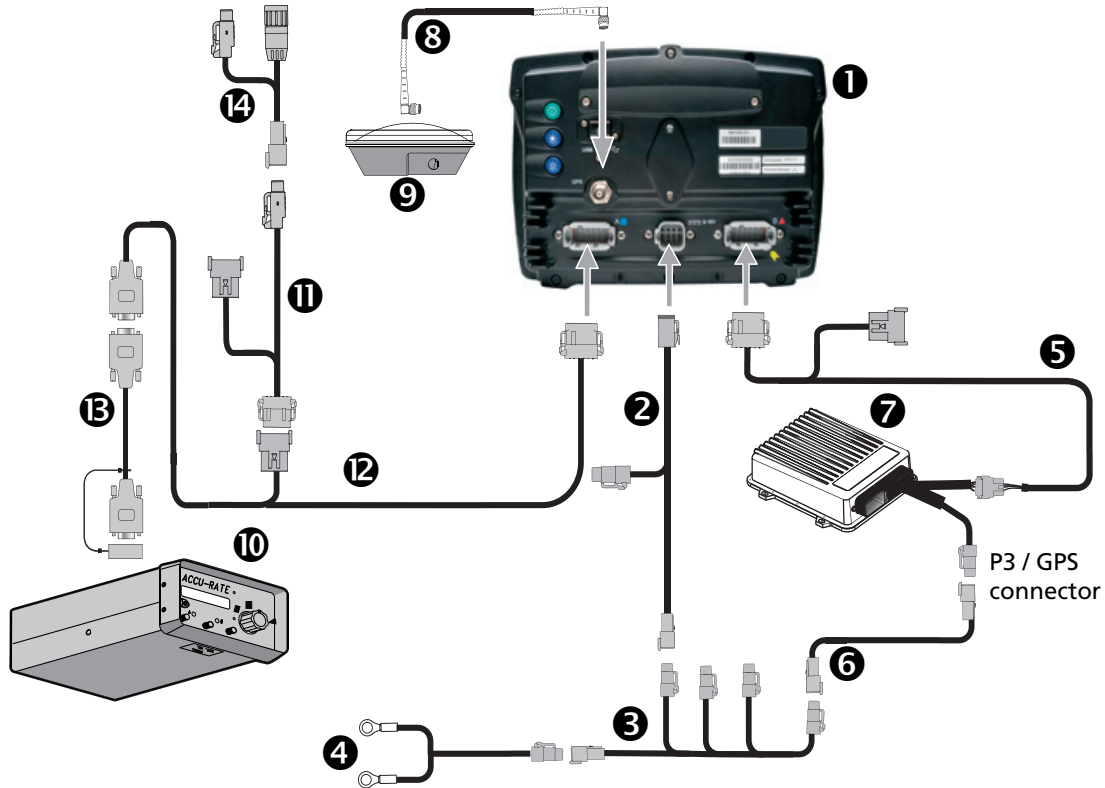


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<b>Item</b>	<b>Description</b>	<b>Trimble part number</b>
⑩	Main NavController II cable	54601
⑪	CFX-750 universal radar adaptor	68461
⑫	CFX-750 to DE9, RS232	67091
⑬	CFX-750 / FM-1000 / EZ-Guide 500 to Raven variable rate adaptor	69729
⑭	Cable, radar speed output, Raven	64272

## CFX-750 / Autopilot / radar output / serial variable rate for Rawson

Connecting the CFX-750 display with the Autopilot automated steering system, radar output, and serial variable rate for Rawson systems:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the CFX-750 display, and will void the warranty.

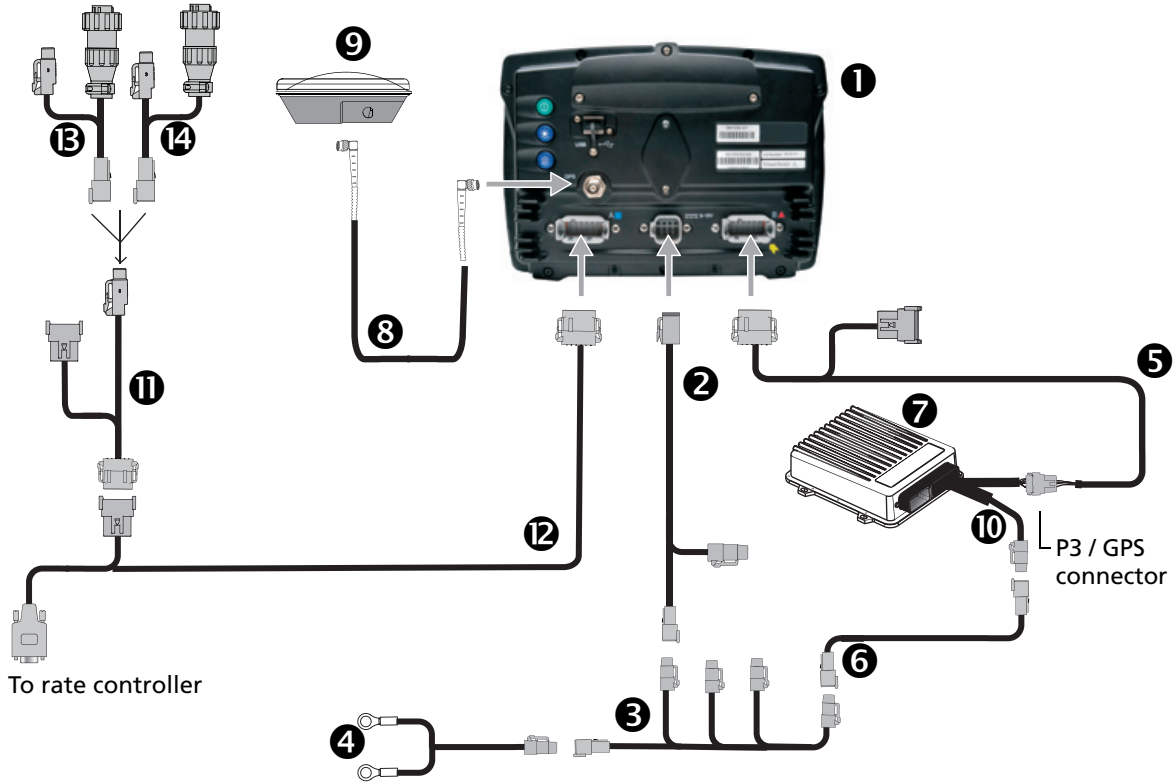
Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	CFX-750 to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00
8	8 m GPS TNC/TNC RT angle cable	50449
9	AG25 GNSS antenna	77038-00

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<b>Item</b>	<b>Description</b>	<b>Trimble part number</b>
⑩	Main NavController II cable	54601
⑪	CFX-750 universal radar adaptor	68461
⑫	CFX-750 to DE9, RS232	67091
⑬	CFX-750 / FM-1000 / EZ-Guide 500 to Rawson variable rate adaptor	69730
⑭	Rawson radar speed output cable	64273

## CFX-750 / Autopilot / radar output / serial variable rate

This figure shows how to connect the CFX-750 display with the Autopilot automated steering system, radar output, and serial variable rate for a range of third-party systems:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ⑩ will result in damage to the CFX-750 display and will void the warranty.

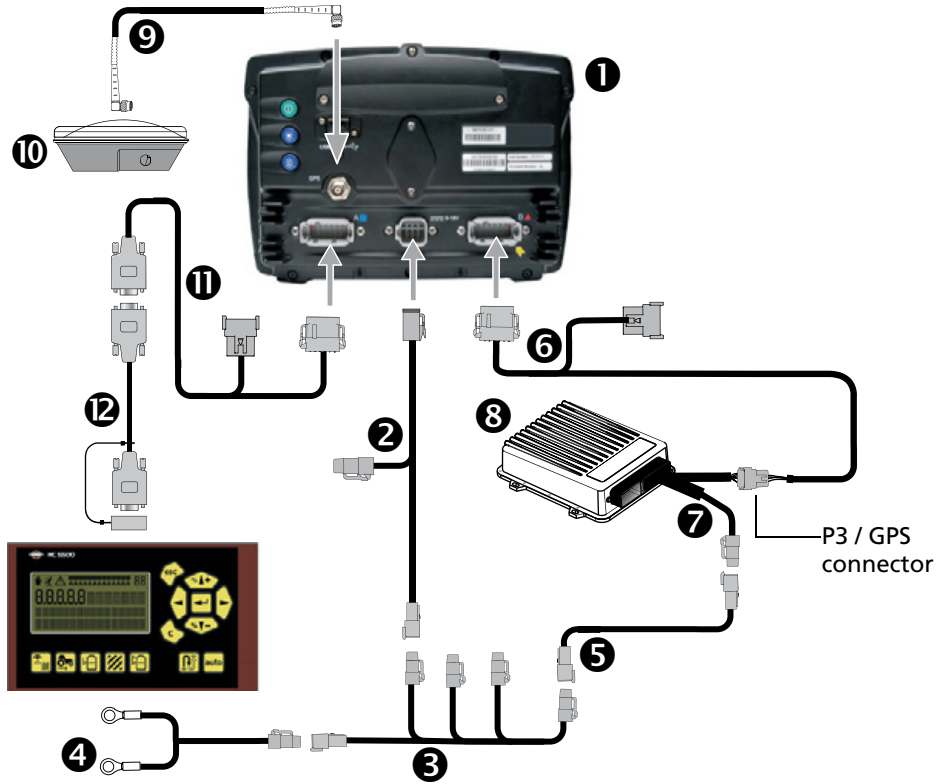
Item	Description	Trimble part number
①	CFX-750 display	94100-xx
②	CFX-750 power cable	77282
③	CFX-750 power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	CFX-750 to NavController II cable with port replicator	75741
⑥	2 pin DTM to 2 pin DT power adaptor	67095
⑦	NavController II	55563-00
⑧	8 m GPS TNC/TNC RT angle cable	50449
⑨	AG25 GNSS antenna	77038-00

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Item	Description	Trimble part number
⑩	Main NavController II cable	54601
⑪	CFX-750 universal radar adaptor	68461
⑫	CFX-750 to DE9, RS232	67091
⑬	Cable, radar speed output, DICKEY-john	64273
⑭	Cable, radar speed output, Hiniker	64274

## CFX-750 / Autopilot / serial connection for Hardi 5500 controller

Connecting the CFX-750 display with the Autopilot automated steering system, radar output, and serial variable rate for a Hardi 5500 controller:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the CFX-750 display and will void the warranty.

*Note* – For the Hardi 5500 controller to work with the CFX-750 display, it must have firmware version 3.16 or greater installed and have a JOBCOM control box connected.

Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	2 pin DTM to 2 pin DT power adaptor	67095
6	CFX-750 to NavController II cable with port replicator	75741
7	Main NavController II cable	54601

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<b>Item</b>	<b>Description</b>	<b>Trimble part number</b>
⑧	NavController II	55563-00
⑨	8 m GPS TNC/TNC RT angle cable	50449
⑩	AG25 GNSS antenna	77038-00
⑪	CFX-750 to DE9, RS232	67091
⑫	DB9(F) to DB9(F) null modem cable	59043





# Connecting Modems

## In this chapter:

- [CFX-750 / Autopilot / Ag3000 VRS corrections](#)
- [CFX-750/Autopilot/ Sierra wireless modem](#)
- [CFX-750 / Autopilot / DCM-300 wireless modem](#)

This chapter shows how to connect the CFX-750 display to a modem.

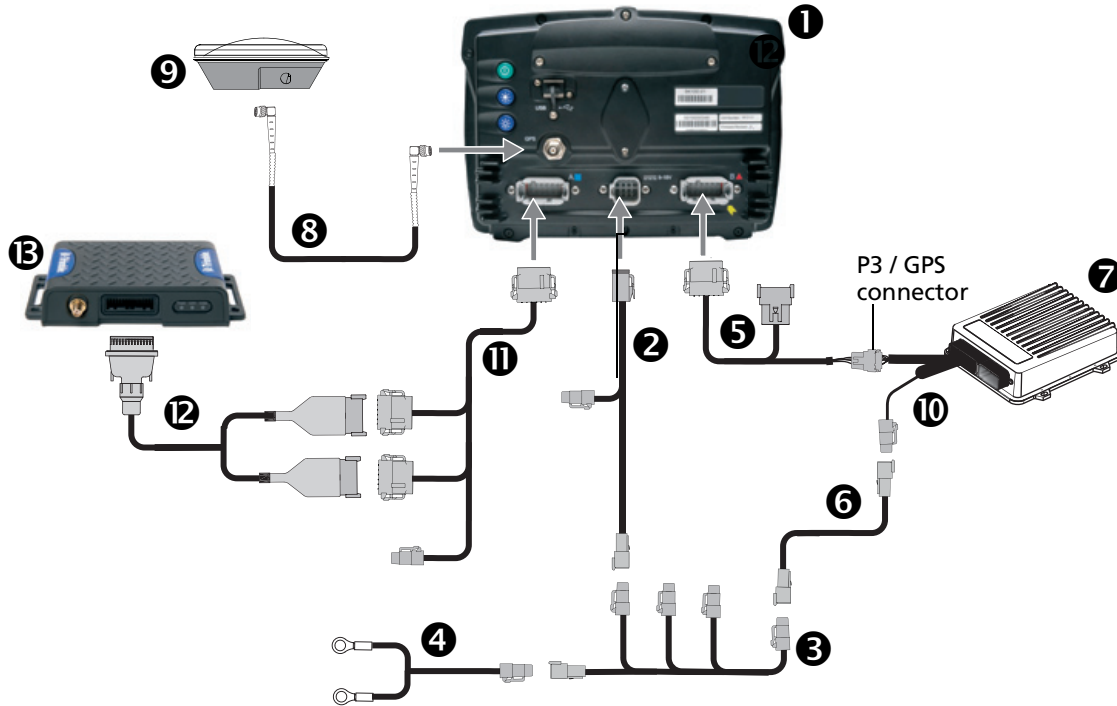


**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the CFX-750 display and will void the warranty.

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## CFX-750 / Autopilot / Ag3000 VRS corrections

Connecting the CFX-750 display with the Autopilot automated steering system and the Ag3000 modem:

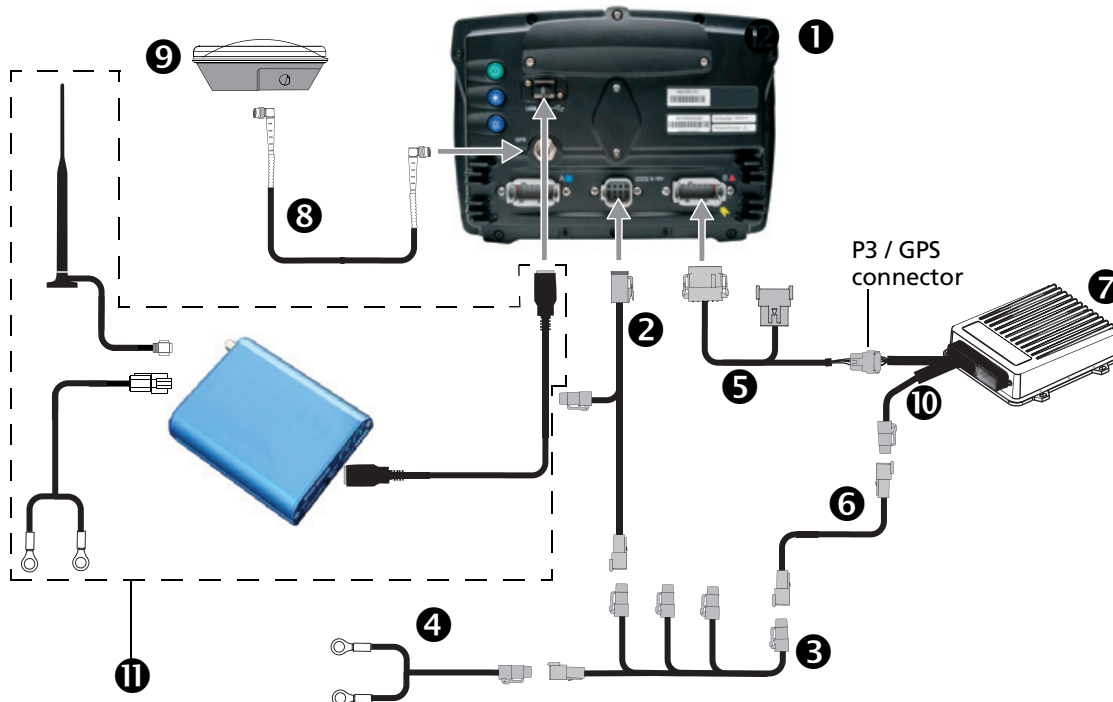


**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ⑩ will result in damage to the CFX-750 display and will void the warranty.

Item	Description	Trimble part number
①	CFX-750 display	94100-xx
②	CFX-750 power cable	77282
③	CFX-750 power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	CFX-750 to NavController II cable with port replicator	75741
⑥	2 pin DTM to 2 pin DT power adaptor	67095
⑦	NavController II	55563-00
⑧	8m GPS TNC/TNC RT angle cable	76442
⑨	AG25 GNSS antenna	77038-00
⑩	Main NavController II cable	54601
⑪	Ag3000 to CFX-750/FM-1000 cable	77273
⑫	Ag3000 break-out cable	70433
⑬	Ag3000 modem	80300-xx

## CFX-750/Autopilot/ Sierra wireless modem

Connecting the CFX-750 display with the Autopilot automated steering system and the Sierra wireless modem:



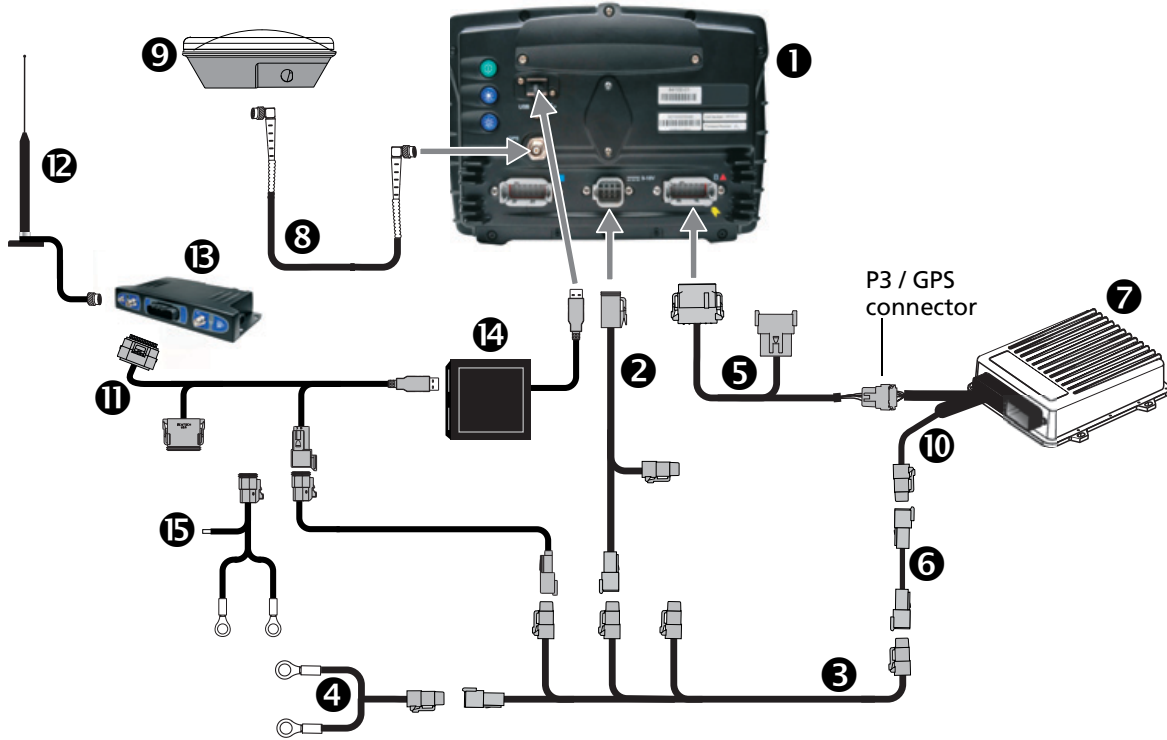
**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ⑩ will result in damage to the CFX-750 display and will void the warranty.

Item	Description	Trimble part number
①	CFX-750 display	94100-xx
②	CFX-750 power cable	77282
③	CFX-750 power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	CFX-750 to NavController II cable with port replicator	75741
⑥	2 pin DTM to 2 pin DT power adaptor	67095
⑦	NavController II	55563-00
⑧	8m GPS TNC/TNC RT angle cable	76442
⑨	AG25 GNSS antenna	77038-00

Item	Description	Trimble part number
⑩	Main NavController II cable	54601
⑪	Sierra Wireless Modem kit: <ul style="list-style-type: none"> <li>• Antenna</li> <li>• Mag mount base</li> <li>• USB cable</li> </ul> <b>Note</b> – Part number dependant on wireless provider.	71116-xx

## CFX-750 / Autopilot / DCM-300 wireless modem

Connecting the CFX-750 display with the Autopilot automated steering system and the DCM-300 wireless modem:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the CFX-750 display and will void the warranty.

Item	Description	Trimble part number
1	CFX-750 display	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	CFX-750 to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00
8	8m GPS TNC/TNC RT angle cable	76442
9	AG25 GNSS antenna	77038-00
10	Main NavController II cable	54601

Item	Description	Trimble part number
①	DCM-300 to display cable	82033
⑫	DCM-300 cellular antenna	82026 + 51227
⑬	DCM-300 Modem	80632-xx
⑭	USB hub. Must be used.	82026
⑮	DCM-300 power harness: Use either the powerbus or direct power leads harness.	82026

# Installing Accessories

## In this chapter:

- [CFX-750 / 2 AgCam cameras / Autopilot / RTK corrections](#)
- [CFX-750 / Autopilot / Remote-mounted LB25 external lightbar](#)
- [CFX-750 / Autopilot / EZ-Remote joystick](#)

This chapter shows the different accessories, including lightbars and cameras, that can be added to the CFX-750 display.



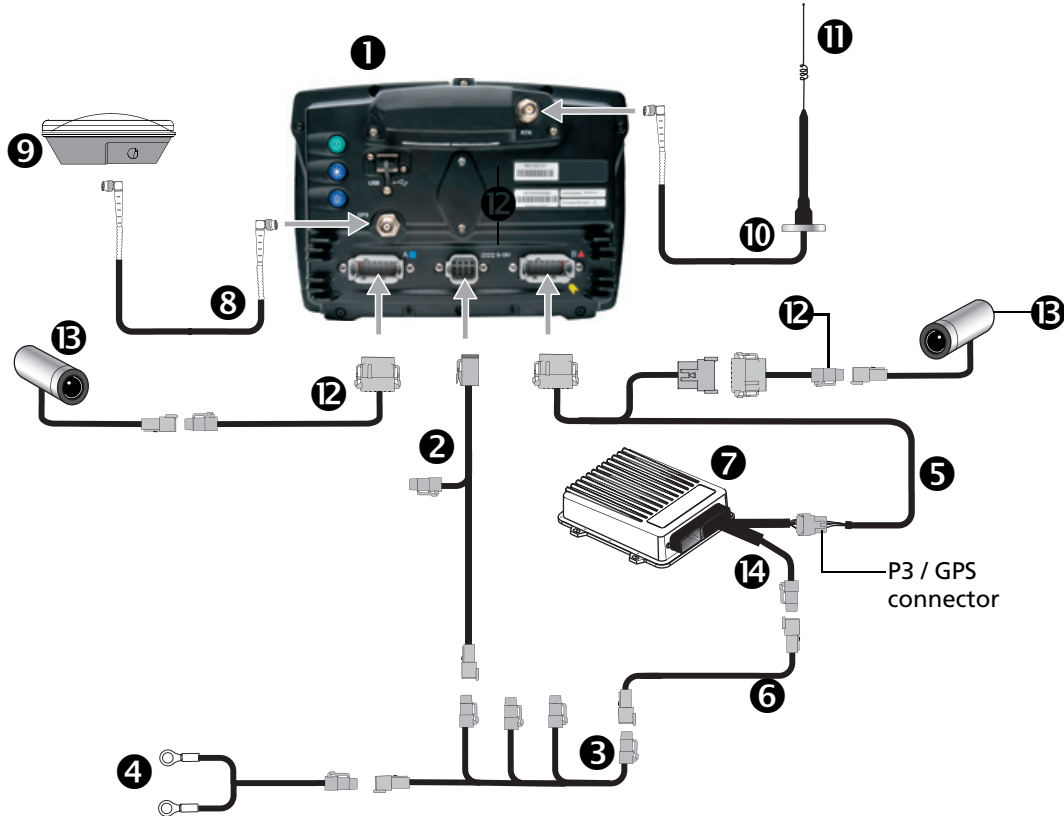
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**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the CFX-750 integrated display and will void the warranty.

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## CFX-750 / 2 AgCam cameras / Autopilot / RTK corrections

Connecting the CFX-750 display with RTK radio, the Autopilot automated steering system, and two AgCam cameras:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 14 will result in damage to the CFX-750 display, and will void the warranty.

Item	Description	Trimble part number
1	CFX-750 display <b>Note</b> – RTK password required.	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	CFX-750 to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00
8	8 m GPS TNC/TNC RT angle cable	50449

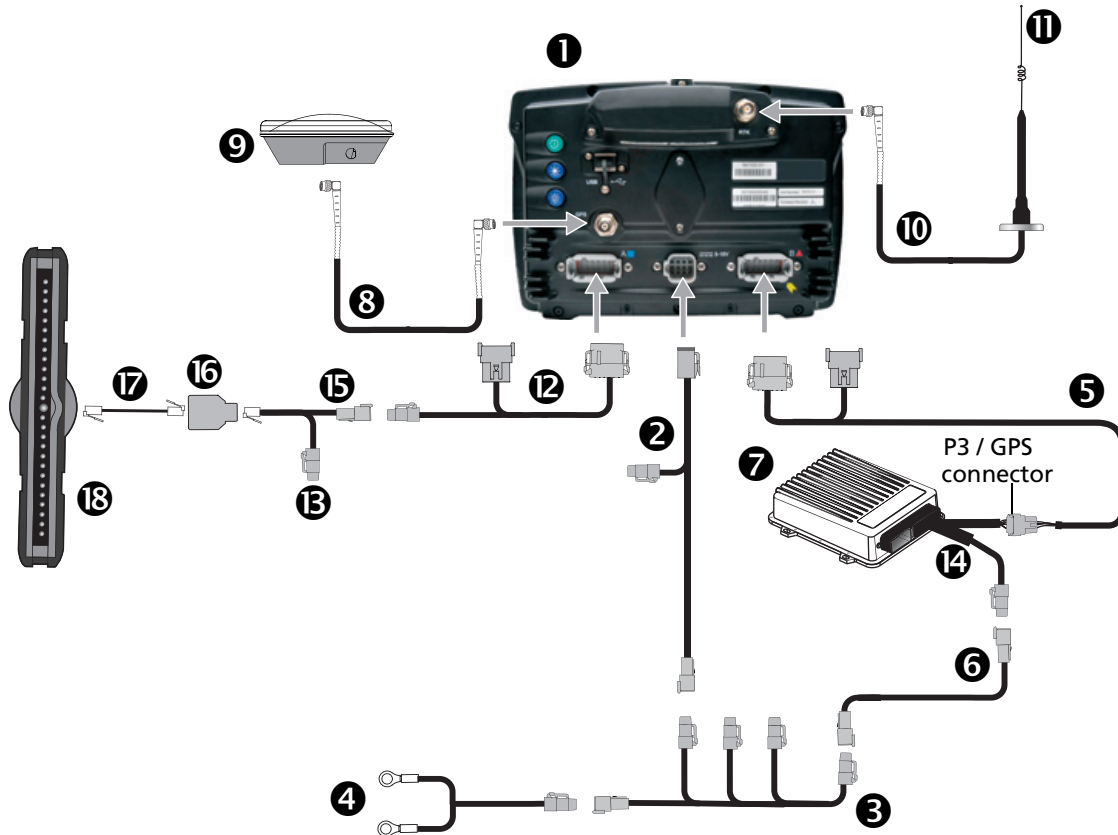


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Item	Description	Trimble part number
9	AG25 GNSS antenna	77038-00
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	CFX-750 to AgCam cable	77401
13	CFX-750 AgCam stainless steel camera kit (up to 2 units) CFX-750 AgCam aluminium camera kit (up to 2 units)	77400-10 77400-20
14	Main NavController II cable	54601

## CFX-750 / Autopilot / Remote-mounted LB25 external lightbar

Connecting the CFX-750 display with RTK radio to the Autopilot automated steering system, and the remotely-mounted LB25 external lightbar:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 14 will result in damage to the CFX-750 display and will void the warranty.

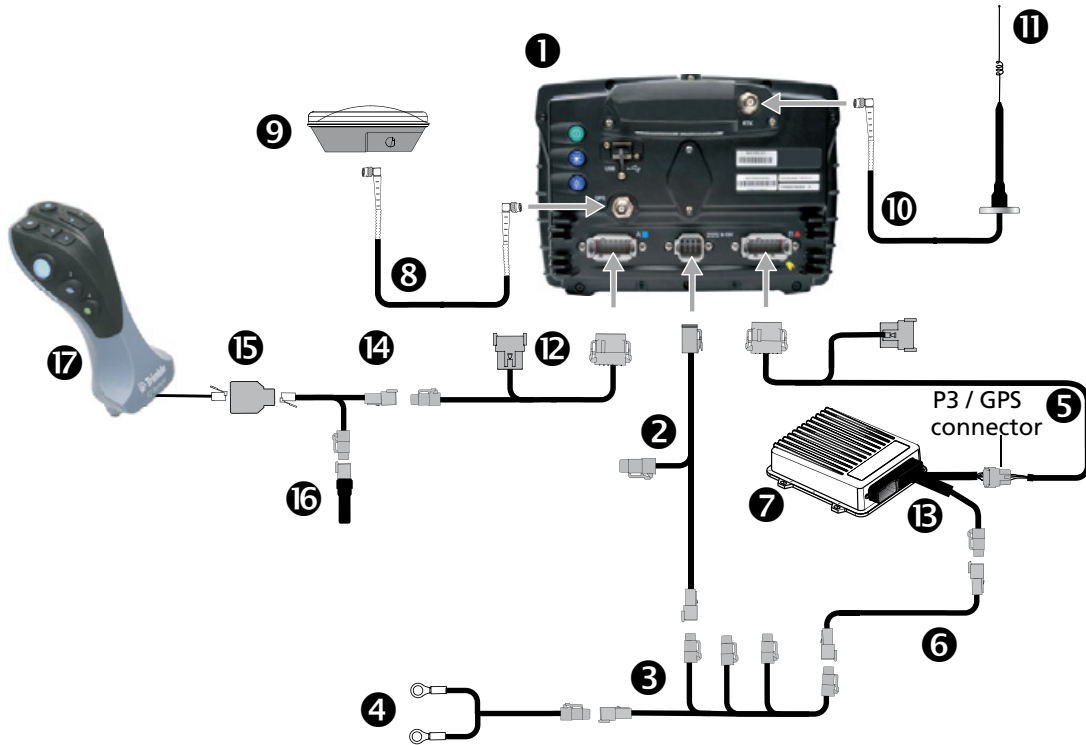
*Note* – If you use the LB25 external lightbar, **do not** use another CAN device on the same port.

Item	Description	Trimble part number
1	CFX-750 display <b>Note</b> – RTK password required.	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	CFX-750 to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00

Item	Description	Trimble part number
8	8 m GPS TNC/TNC RT angle cable	50449
9	AG25 GNSS antenna	77038-00
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	CFX-750 to CAN cable with port replicator	75407
13	CAN terminator	59783
14	Main NavController II cable	54601
15	CFX-750 to LB25 remote lightbar cable	67094
16	Splitter cable, RJII F to 2x RJII F	72422
17	7' extension cable (optional)	69781
18	LB25 external lightbar	82400-01

## CFX-750 / Autopilot / EZ-Remote joystick

Connecting the CFX-750 display with RTK radio to the Autopilot automated steering system, and EZ-Remote joystick:



**CAUTION** – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 13 will result in damage to the CFX-750 display and will void the warranty.

Item	Description	Trimble part number
1	CFX-750 display <b>Note</b> – RTK password required.	94100-xx
2	CFX-750 power cable	77282
3	CFX-750 power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	CFX-750 to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00
8	8 m GPS TNC/TNC RT angle cable	50449
9	AG25 GNSS antenna	77038-00

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Item	Description	Trimble part number
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	CFX-750 to CAN cable with port replicator	75407
13	Main NavController II cable	54601
14	CFX-750 to LB25 remote lightbar cable	67094
15	Splitter cable, RJII F to 2x RJII F	72422
16	CAN terminator	59783
17	EZ Remote joystick	82400-01

