



CABLING GUIDE

FmX[®] Integrated Display

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FmX[®] Integrated Display

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Contact Information

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This product is covered by the following United States Patent Numbers: 5,311,149, 5,369,589, 5,987,383, 6,252,863, 5,402,450, 5,493,588, and 6,463,374. Other patents pending.

Release Notice

This is the April 2011 release (Revision A) of the *FmX Integrated Display Cabling Guide*. It applies to version 5.00 of the FmX integrated display firmware.

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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

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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.

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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.

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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.

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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



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.

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.

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Cable Configuration Guidelines

In this chapter:

- [Multiple cables on single ports](#)
- [Cable/port compatibility table](#)
- [Superseded cables](#)

This chapter includes guidelines on cabling options for the Trimble® FmX® integrated display.

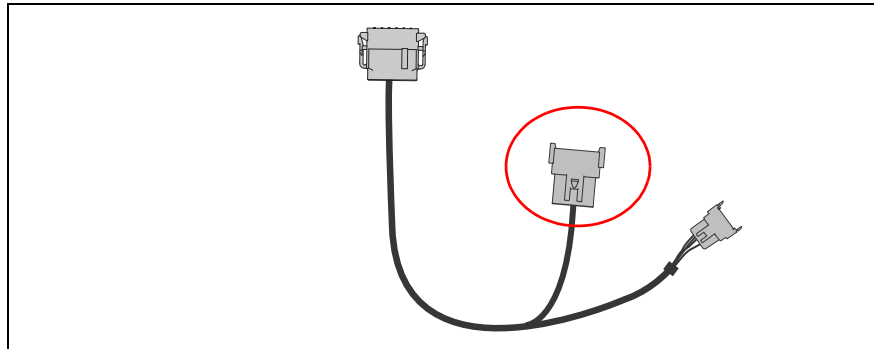
Multiple cables on single ports

Guidelines for configuring multiple cables on single ports.

- One communication type (that is, RS232 or CAN) can be used on each port. If two RS232 ports are required, the cabling should be configured 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, and so on. Do not connect the port replicator to the NavController II.



- Lightbars, the Field-IQ™ crop input control system, Tru Application Control™, the FieldLevel II system, the EZ-Steer® assisted steering system, yield monitoring and the EZ-Boom® automated application control system require their own dedicated CAN ports.
- The Autopilot™ automated steering system, the TrueTracker™ implement steering system, the EZ-Steer system, and radar output must be connected to port C or D.
- The Ag3000 modem can only be connected to port D.
- When using yield monitoring with CAN, only connect to port A.
- When using the LB25 lightbar and cable P/N 72420, you must use port B with internal termination.

Cable/port compatibility table

Use this table to confirm which FmX integrated display cable can be used in each CAN port.



Function	Communication type	Dedicated CAN port required?	Port A ①	Port B ②	Port C ③	Port D ④
Autopilot	RS232				✓	✓
EZ-Steer	CAN	✓			✓	✓
TrueTracker	RS232				✓	✓
External 262 for True Guide	RS232		✓	✓		
External 332/442	RS232		✓	✓		
EZ-Boom®	CAN	✓	✓	✓		
Tru Application Control	CAN	✓	✓	✓		
Field-IQ	CAN	✓	✓	✓		
GreenSeeker	CAN	✓	✓	✓		
FieldLevel II	CAN	✓	✓	✓		
Yield monitoring	CAN	✓	✓			
Yeild monitoring via serial	RS202		✓	✓	✓	✓
Serial VR	RS232		✓	✓		
Radar output	Digital				✓	✓
Remote output	Digital		✓	✓		
Cameras	Video		✓	✓	✓	✓
Lightbars	CAN	✓		✓		
Ag3000	RS232					✓
EZ-Remote	CAN	✓	✓	✓		

Superseded cables

Cable updates since the previous FmX integrated display release are as follows:

Original part number	Cable	Replacement part number
65522	FmX to NavController II cable with port replicator	75741
67087	FmX to CAN cable with port replicator	75407

Connecting the Display Only

In this chapter:

- [Standalone FmX / WAAS / EGNOS / OmniSTAR™ XP/HP corrections](#)
- [Standalone FmX / RTK corrections](#)

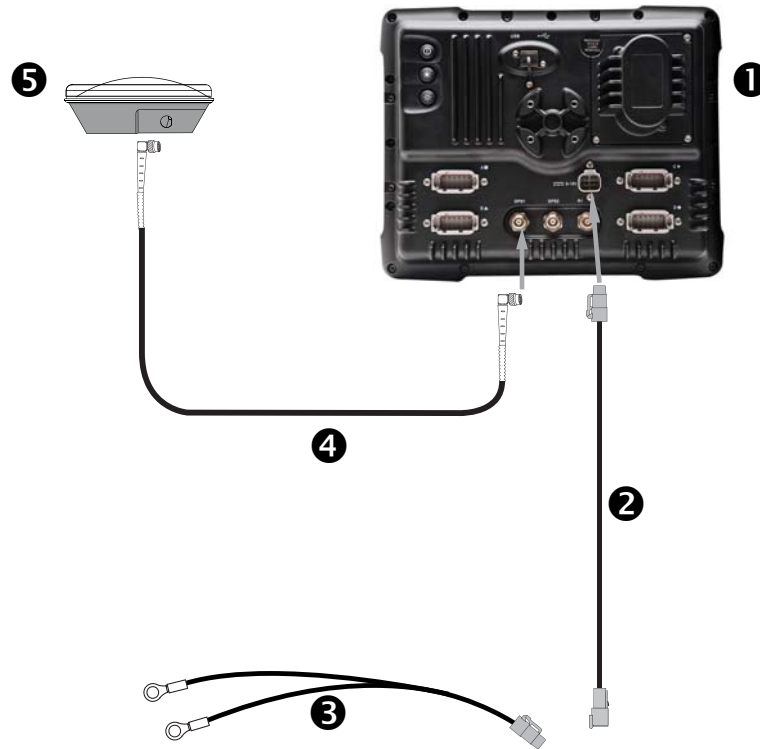
The FmX integrated display can operate as a standalone guidance system, or you can connect it to a range of agricultural guidance devices to expand its functionality. This document shows you how to complete those cable connections.

To connect the display:

- as a standalone guidance system, see [Chapter 2](#).
- to the EZ-Steer assisted steering system, see [Chapter 3](#)
- to the Autopilot automated steering system, see [Chapter 4](#).
- to a Field-IQ crop input control system, see [Chapter 5](#).
- to the GreenSeeker system, see [Chapter 6](#).
- to the EZ-Boom 2010 automated application control system, see [Chapter 7](#).
- for radar output or serial control, see [Chapter 8](#).
- to the Tru Application Control system, see [Chapter 9](#).
- to external receivers (including the Ag3000, see [Chapter 10](#).
- to yield monitoring systems, see [Chapter 11](#).
- to the FieldLevel II system, see [Chapter 12](#).
- to additional accessories, see [Chapter 13](#).

Standalone FmX / WAAS / EGNOS / OmniSTAR™ XP/HP corrections

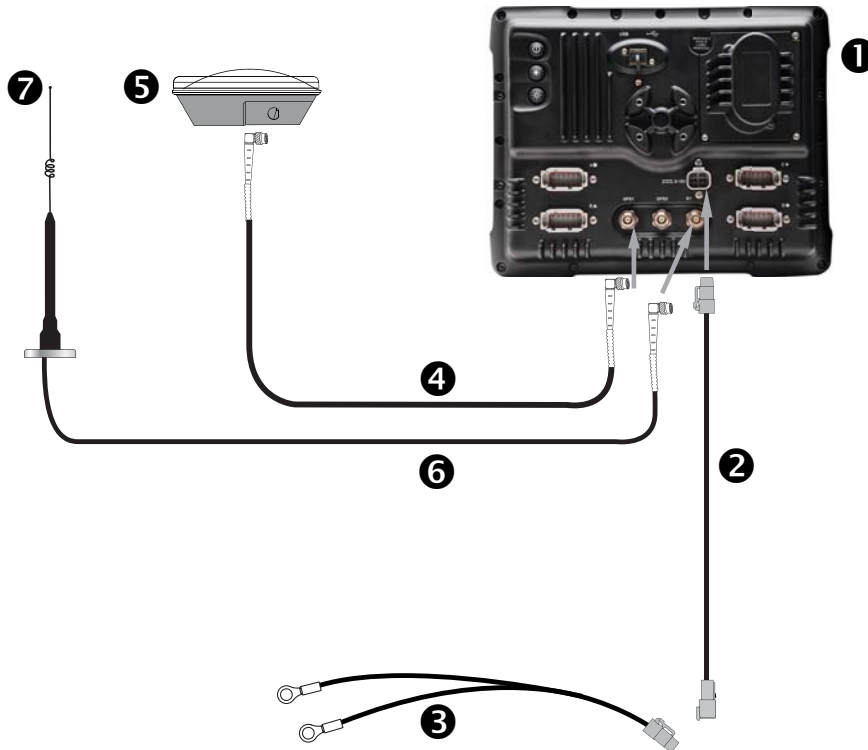
This figure shows how to connect the FmX integrated display to use XP/HP corrections:



Item	Description	Trimble part number
❶	FmX integrated display	93100-01
❷	FmX power cable	66694
❸	FmX basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00

Standalone FmX / RTK corrections

This figure shows how to connect a standalone FmX integrated display to use RTK corrections:



Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX basic power cable	67258
④	8 m GPS TNC/TNC RT angle cable	50449
⑤	Ag25 GNSS antenna	77038-00
⑥	NMO to TNC 20 ft antenna cable and base	62120
⑦	900 MHz radio antenna kit	22882-10

Connecting to an EZ-Steer System

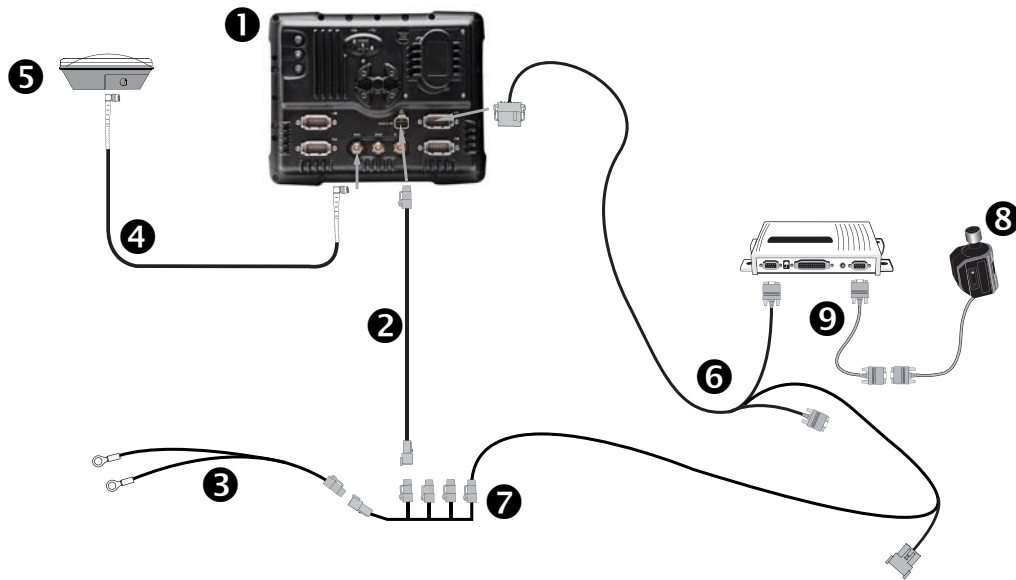
In this chapter:

- FmX / EZ-Steer / WAAS / EGNOS corrections using the power bus
- FmX / EZ-Steer / WAAS / EGNOS corrections with external power leads

This chapter describes how to connect the FmX integrated display to an EZ-Steer system.

FmX / EZ-Steer / WAAS / EGNOS corrections using the power bus

This figure shows how to connect the FmX integrated display with the EZ-Steer assisted steering system, to use WAAS or EGNOS corrections:



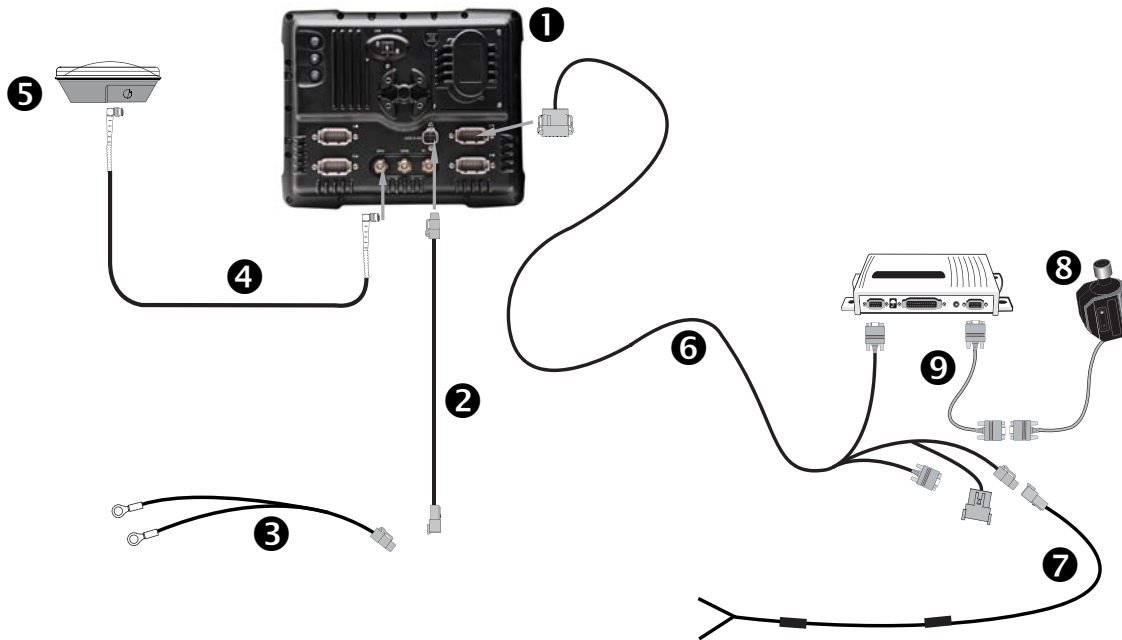
Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
③	FmX basic power cable	67258
④	8 m GPS TNC/TNC RT angle cable	50449
⑤	Ag25 GNSS antenna	77038-00
⑥	FmX to EZ-Steer cable	75742
⑦	FmX power cable with relay and switch (power bus)	67259
⑧	EZ-Steer motor	53058-00
⑨	EZ-Steer motor cable	62257

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

Note – To use the EZ-Guide 500 lightbar cable (P/N 62974) and instructions on how to re-pin the cable, see the support bulletin *FmX - Modifying EZ-Steer Cable P/N 62974 For Use With FmX*.

FmX / EZ-Steer / WAAS / EGNOS corrections with external power leads

This figure shows an alternative method for connecting the FmX integrated display with the EZ-Steer assisted steering system, to use WAAS or EGNOS corrections:



Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX basic power cable	67258
4	8 m GPS TNC/TNC RT angle cable	50449
5	Ag25 GNSS antenna	77038-00
6	FmX 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.

Note – To use the EZ-Guide 500 lightbar cable (P/N 62974) and instructions on how to re-pin the cable, see the support bulletin *FmX - Modifying EZ-Steer Cable P/N 62974 For Use With FmX*

Connecting to an Autopilot System

In this chapter:

- FmX / Autopilot / WAAS/EGNOS corrections
- FmX / Autopilot / OmniSTAR XP/HP corrections
- FmX / Autopilot / RTK corrections
- FmX with external switch / Autopilot / RTK corrections
- FmX with ignition sensing / Autopilot / RTK corrections
- FmX / Autopilot / TrueGuide or Implement Monitoring
- FmX / Autopilot / TrueGuide or Implement Monitoring with an AgGPS 252/262 external receiver
- FmX / Autopilot / TrueTracker / RTK corrections
- FmX / Autopilot / AgGPS 252/262
- FmX / Factory-ready CNH vehicle
- FmX / Autopilot / Factory-ready CNH vehicle / external receiver
- FmX / Autopilot / AGCO Wheeled Tractors

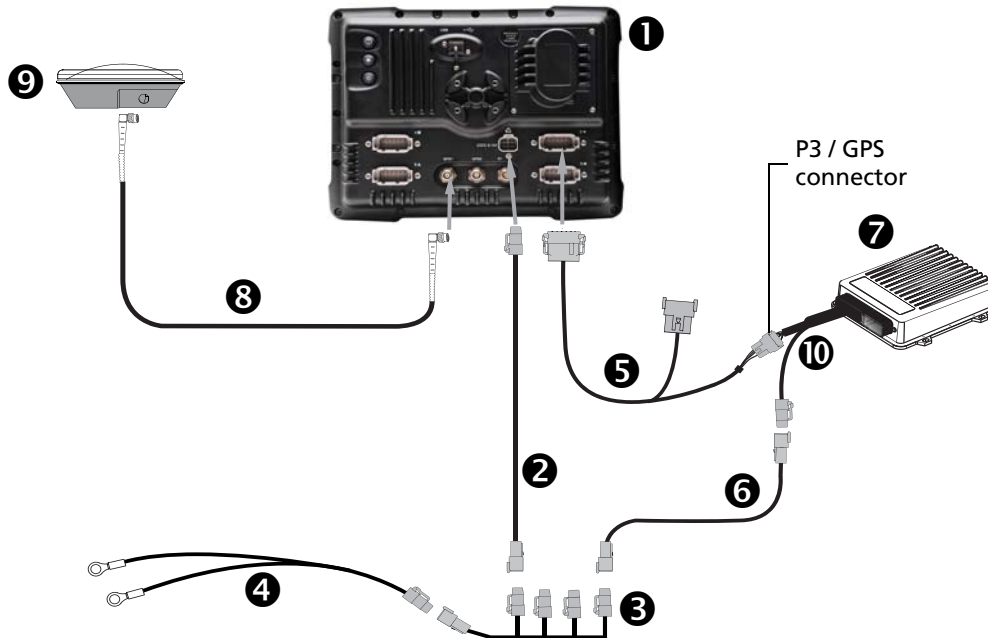
This chapter shows the different ways to connect the FmX integrated display to an Autopilot automated steering system.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

FmX / Autopilot / WAAS/EGNOS corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system to use the internal receiver:

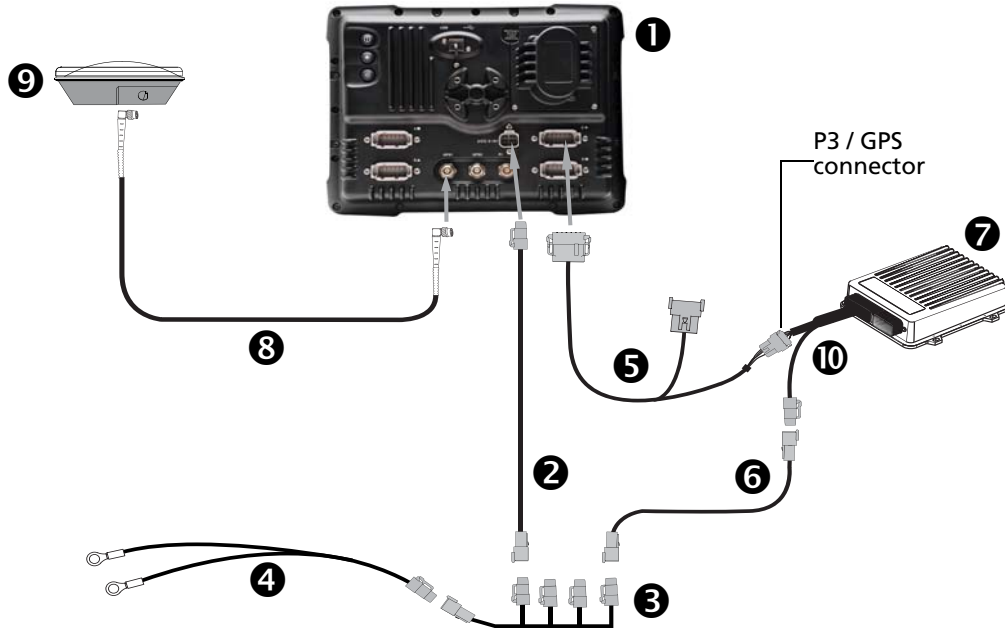


CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the FmX/FM-1000™ integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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	50449
9	Ag25 GNSS antenna	77038-00
10	Main NavController II cable	54601

FmX / Autopilot / OmniSTAR XP/HP corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, to use OmniSTAR XP/HP corrections:

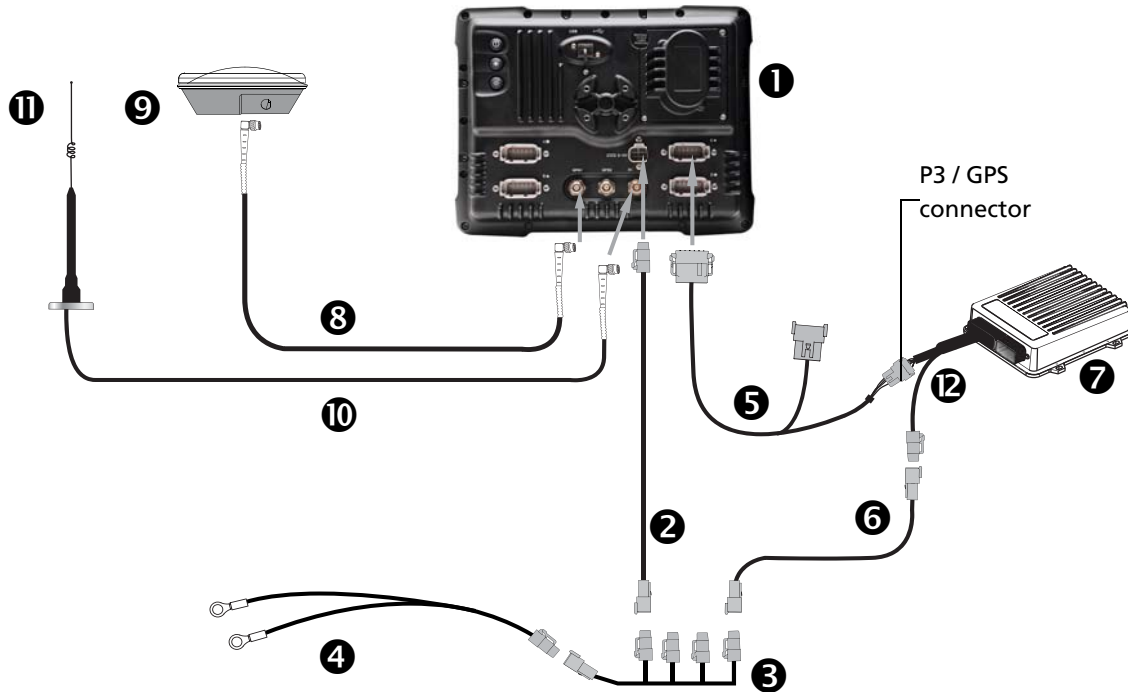


CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	Main NavController II cable	54601

FmX / Autopilot / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system to use RTK corrections:

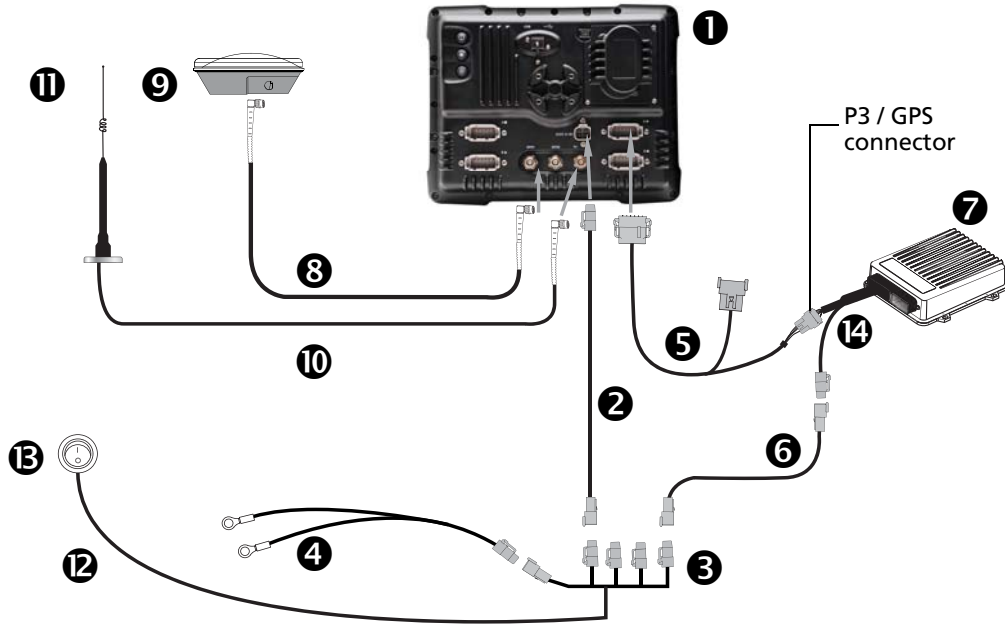


CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 12 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20 ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	Main NavController II cable	54601

FmX with external switch / Autopilot / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system (controlled by an external switch), to use RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 14 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

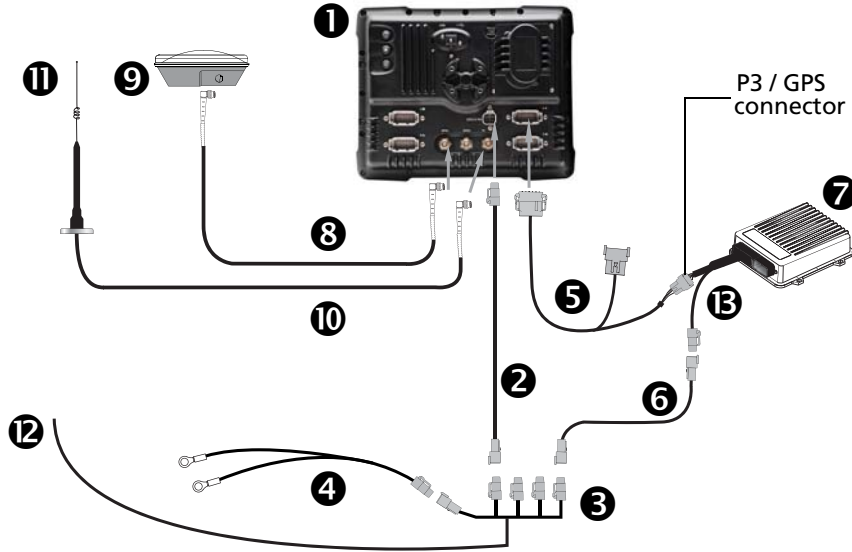
Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II	55563-00
8	8 m GPS TNC/TNC RT angle cable	50449
9	Ag25 GNSS antenna	77038-00
10	NMO to TNC 20 ft 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

4 Connecting to an Autopilot System

Item	Description	Trimble part number
③	External switch included with kit	Part of P/N 67259
④	Main NavController II cable	54601

FmX with ignition sensing / Autopilot / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system (with ignition sensing), to use RTK corrections:

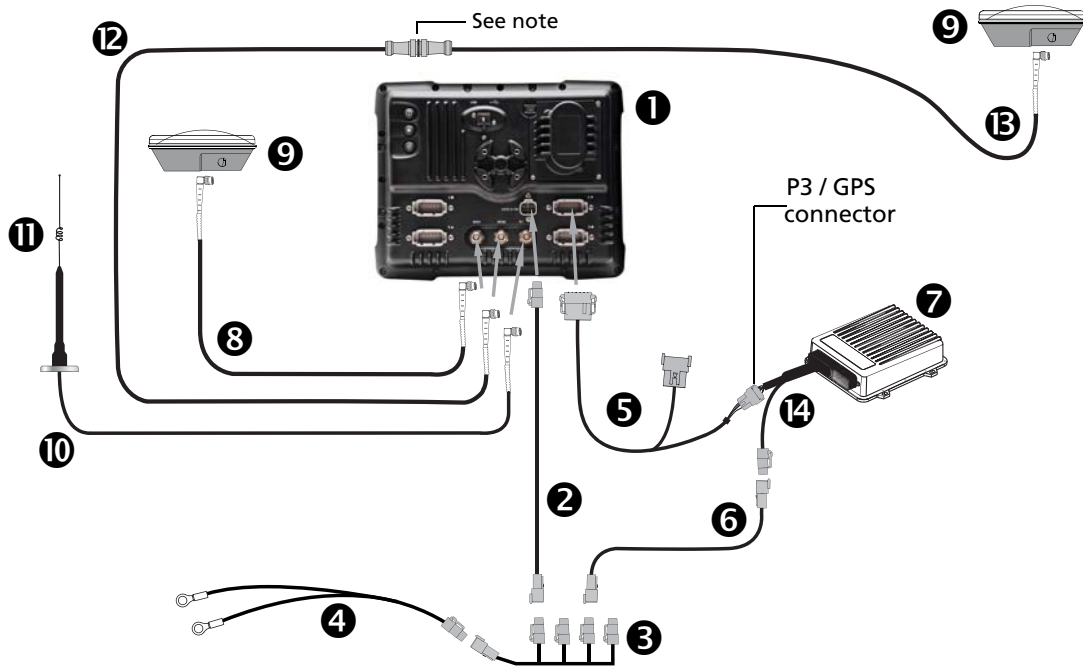


CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 13 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	Ignition sense cable included with kit	Part of P/N 67259
13	Main NavController II cable	54601

FmX / Autopilot / TrueGuide or Implement Monitoring

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, TrueGuide, or implement monitoring to use RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 14 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

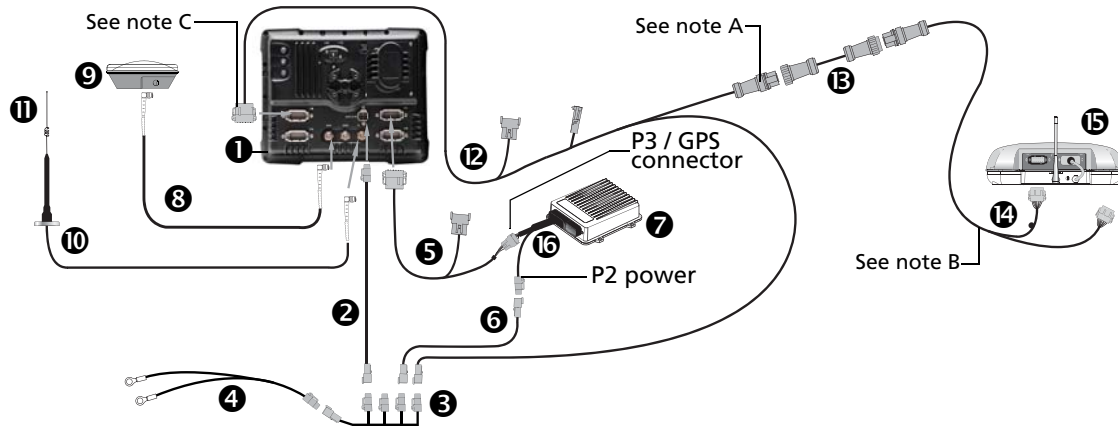
Note – An optional LMR400 65' extension cable (P/N 67473) is available for implements with a long tongue.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20 ft antenna cable and base	62120

Item	Description	Trimble part number
①	900 MHz radio antenna kit	22882-10
②	Coaxial 160" N/f + TNC/m-ra cable	68295
③	Coaxial 480" N/m + TNC/m-ra cable	67472
④	Main NavController II cable	54601

FmX / Autopilot / TrueGuide or Implement Monitoring with an AgGPS 252/262 external receiver

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system and TrueGuide system or implement monitoring, while using a second external AgGPS® receiver:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 14 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note A – An optional 45' 10-pin data extension cable (P/N AG_0793-1290-450) is available for implements with a long tongue.

Note B – Connect to port “A” of the 252/262 receiver only.

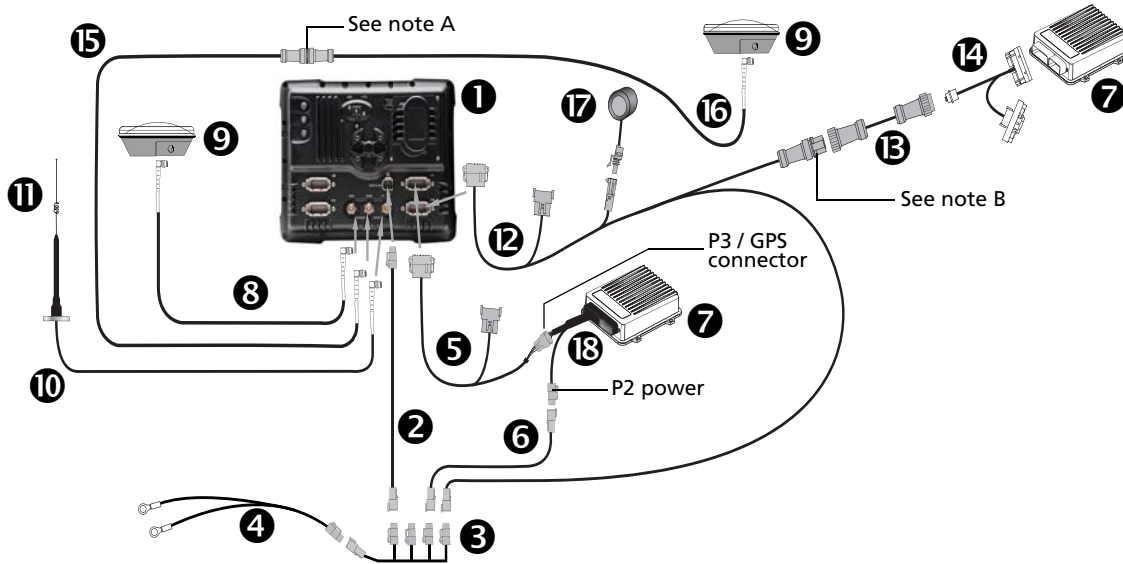
Note C – Connect to port “A” or “B”.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20 ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10

Item	Description	Trimble part number
⑫	FmX to TrueTracker cable	67092
⑬	Implement 10-pin data cable	0793-8740-450
⑭	Cable assembly, implement receiver extension	75447
⑮	AgGPS 252/262 receiver	55500-xx
⑯	Main NavController II cable	54601
⑰	Sonalert	43104

FmX / Autopilot / TrueTracker / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system and TrueTracker implement steering system, to use RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ⑫ to the P4 or P12 connector of the NavController II harness ⑬ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note A – An optional LMR400 65' extension cable (P/N 67473) is available for implements with a long tongue.

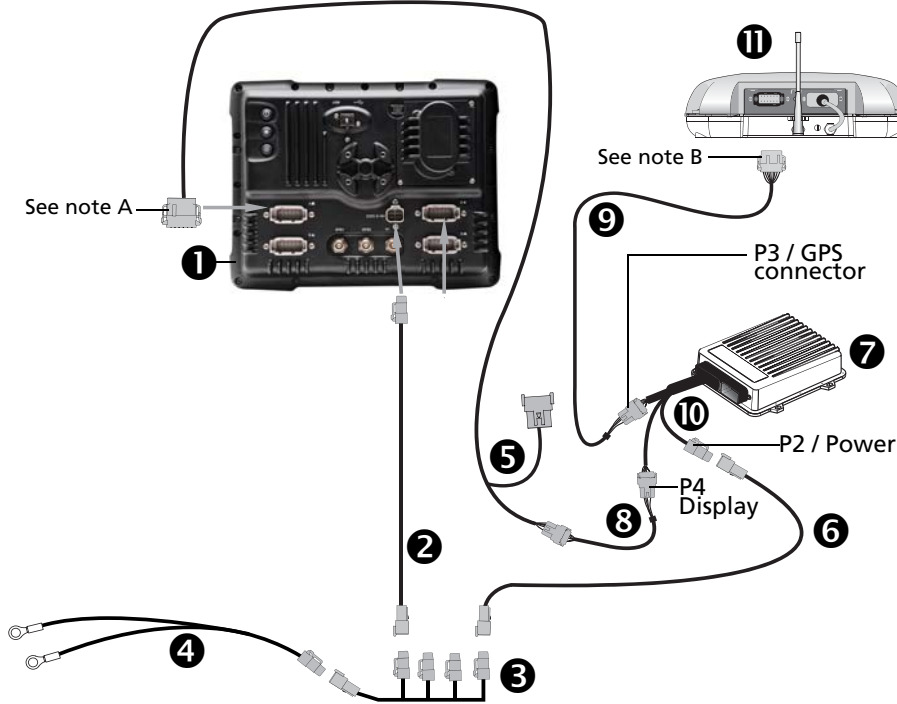
Note B – An optional 45' 10-pin data extension cable (P/N AG_0793-1290-450) is available for implements with a long tongue

Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	FmX to NavController II cable with port replicator	75741
⑥	2 pin DTM to 2 pin DT power adaptor	67095
⑦	NavController II (x2)	55563-00
⑧	8 m GPS TNC/TNC RT angle cable	50449
⑨	Ag25 GNSS antenna (x2)	77038-00
⑩	NMO to TNC 20 ft antenna cable and base	62120

Item	Description	Trimble part number
①	900 MHz radio antenna kit	22882-10
②	FmX to TrueTracker cable	67092
③	Implement extension cable	0793-8740-450
④	FmX to NavController II and TrueTracker main harness	67612
⑤	Coaxial 160" N/f + TNC/m-ra cable	68295
⑥	Coaxial 480" N/m + TNC/m-ra cable	67472
⑦	Sonalert	43104
⑧	Main NavController II cable	54601

FmX / Autopilot / AgGPS 252/262

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, to use an AgGPS 252 or 262 receiver:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note A – Connect only to port A or B on the FmX integrated display.

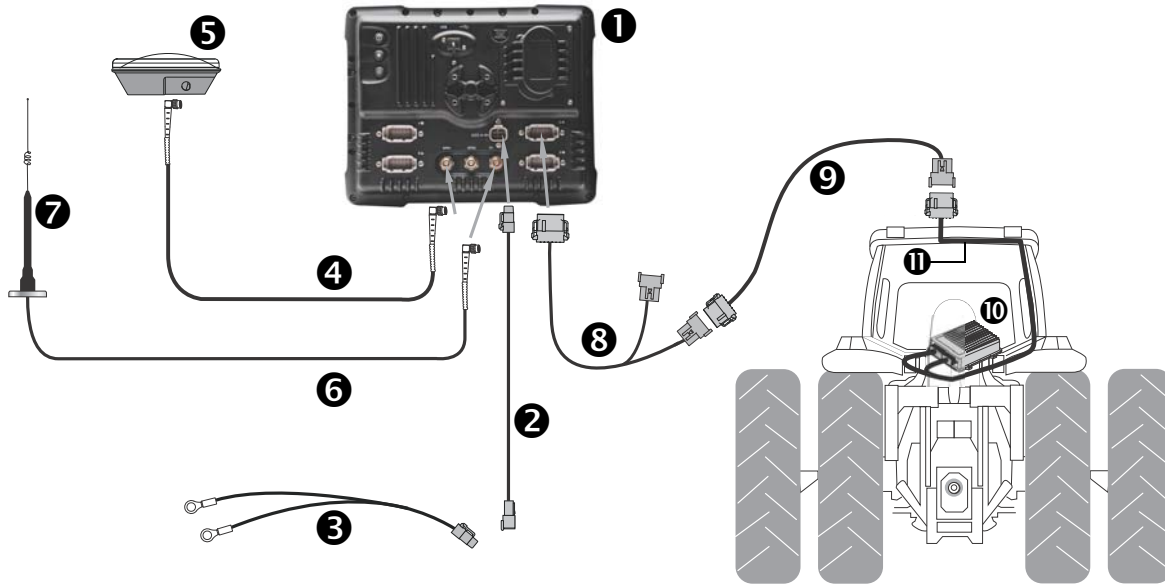
Note B – Connect only to port A on the receiver.

Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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	Cable assembly, 8-pin to 12-pin adaptor	76442
9	Cable, AgGPS 252/252 to NavController II	54608

Item	Description	Trimble part number
⑩	Main NavController II cable	54601
⑪	AgGPS 252/262 receiver	55500-xx

FmX / Factory-ready CNH vehicle

This figure shows how to connect the FmX integrated display into a factory-ready CNH vehicle, to use RTK corrections:

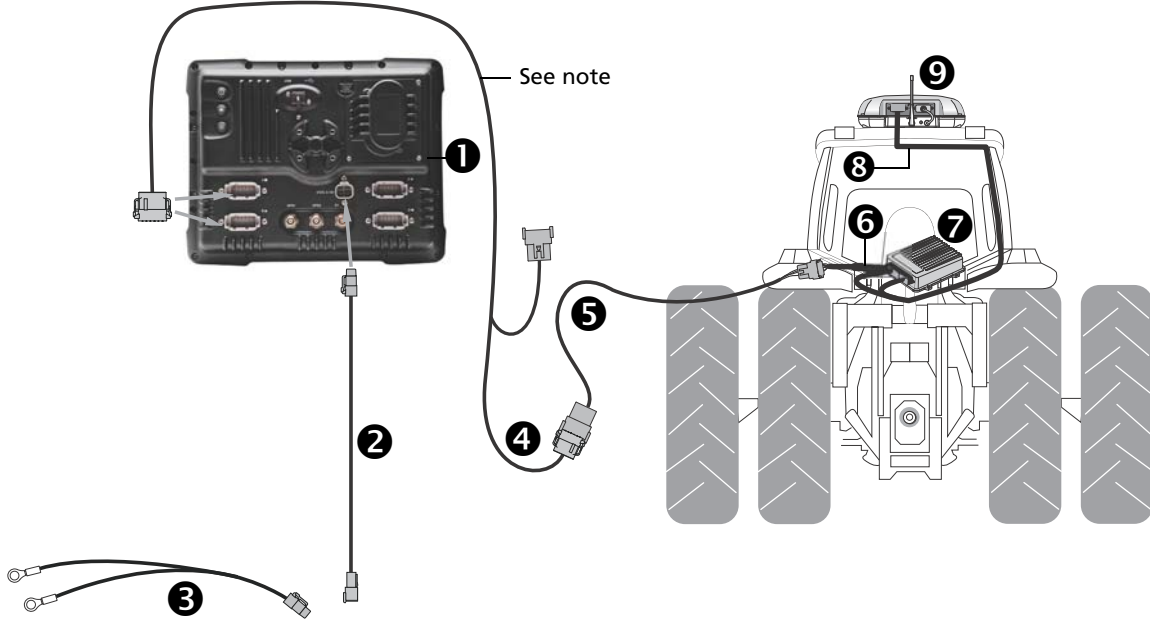


CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ③ to the P4 connector of the NavController II harness will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
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 20 ft antenna cable and base	62120
⑦	900 MHz radio antenna kit	22882-10
⑧	FmX to NavController II cable with port replicator	75741
⑨	CNH hybrid to GPS cable	67120
⑩	NavController II	55563-00
⑪	Factory-installed harness	N/A

FmX / Autopilot / Factory-ready CNH vehicle / external receiver

This figure shows how to connect the FmX integrated display into a factory-ready CNH vehicle, using the Autopilot system and an AgGPS 252/262 external receiver:



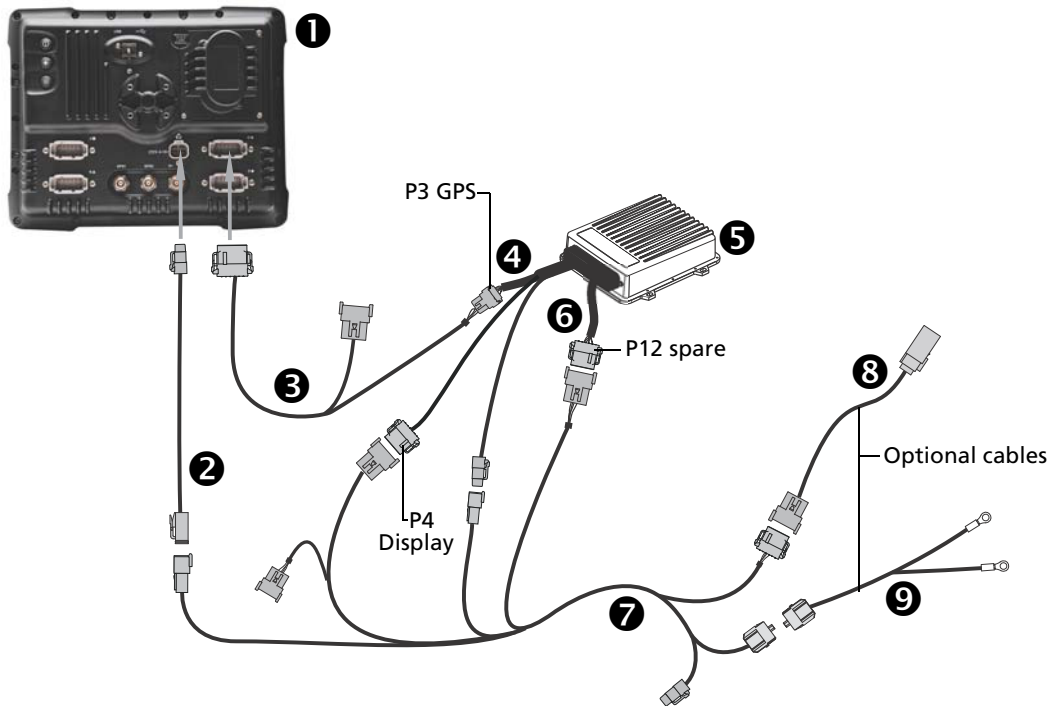
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 4 to the P4 connector of the NavController II harness will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note – Connect only to port A or B on the FmX integrated display.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	Basic power cable	67258
4	FmX to NavController II cable with port replicator	75741
5	8-pin to 12-pin DTM adaptor cable	76442
6	CNH hybrid P4 extension cable kit	56694-005
7	NavController II	55563-00
8	Factory installed harness	N/A
9	AgGPS 252/262 receiver	55500-xx

FmX / Autopilot / AGCO Wheeled Tractors

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system to a Challenger MT500/600, an AGCO DT or RT series, or a Massey Ferguson 8x00, 7x00 and 6x00 series vehicle:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ③ to the P4 or P12 connector of the NavController II harness ④ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
③	FmX 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:

- FmX / Field-IQ cab kit / Powell hitch connector
- FmX / Field-IQ cab kit / Powell hitch connector / power relay
- Field-IQ / Rawson Par 2 drives / Tru Count Air Clutch
- FmX / Field-IQ cab kit / Rawson PAR 40
- FmX / Autopilot / Field-IQ cab kit / Rawson PAR 40 / RTK Corrections
- FmX / Field-IQ Rate and Section control to Raven 4x0 or EZ-Boom harness
- FmX / Field-IQ Section Control only to the Raven 4x0
- FmX / Field-IQ Section Control to Raven 4x00
- FmX / Field-IQ Rate and Section Control to Raven 4x00
- FmX / Field-IQ Rate and Section Control for CaseIH SPX (2009 and later) sprayers
- FmX / Field-IQ Rate and Section Control to AGCO RoGator (2007 and later)
- FmX / Field-IQ cab kit / NH3 and liquid application full harness
- FmX / Autopilot / Field-IQ cab kit / Spreader
- FmX / Field-IQ Cab Kit / Seed Monitoring Only
- FmX / Field-IQ Cab Kit / Row Section Control
- FmX / Field-IQ cab kit / Seed monitoring / Row section control
- FmX / Field-IQ cab kit / Seed monitoring / Rate and Section Control
- FmX / Field-IQ cab kit / Seed monitoring / Rate and Section Control/ Liquid Control
- FmX / Field-IQ Cab Kit / Seed Monitoring / Rawson PAR 2 Seeding
- FmX/Field-IQ Cab Kit / Seed Monitoring / Rawson PAR 2 Seeding / Row Section Control

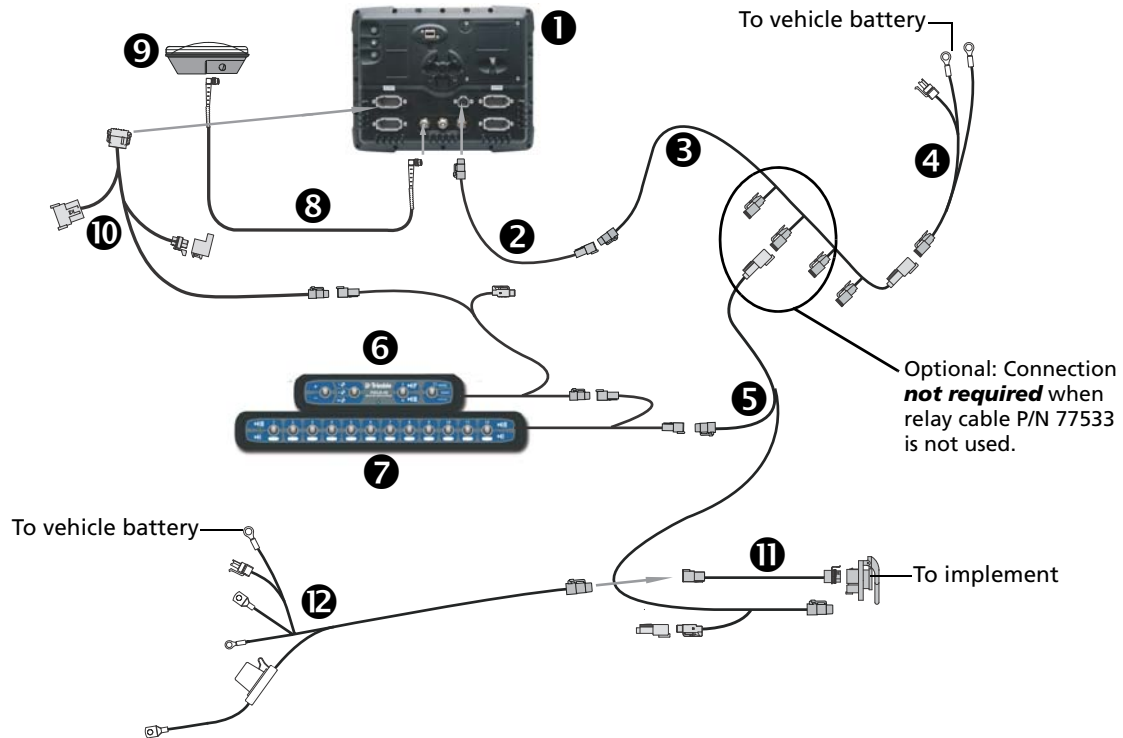
This chapter shows the different ways to connect the FmX integrated display to the Field-IQ crop input control system.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

FmX / Field-IQ cab kit / Powell hitch connector

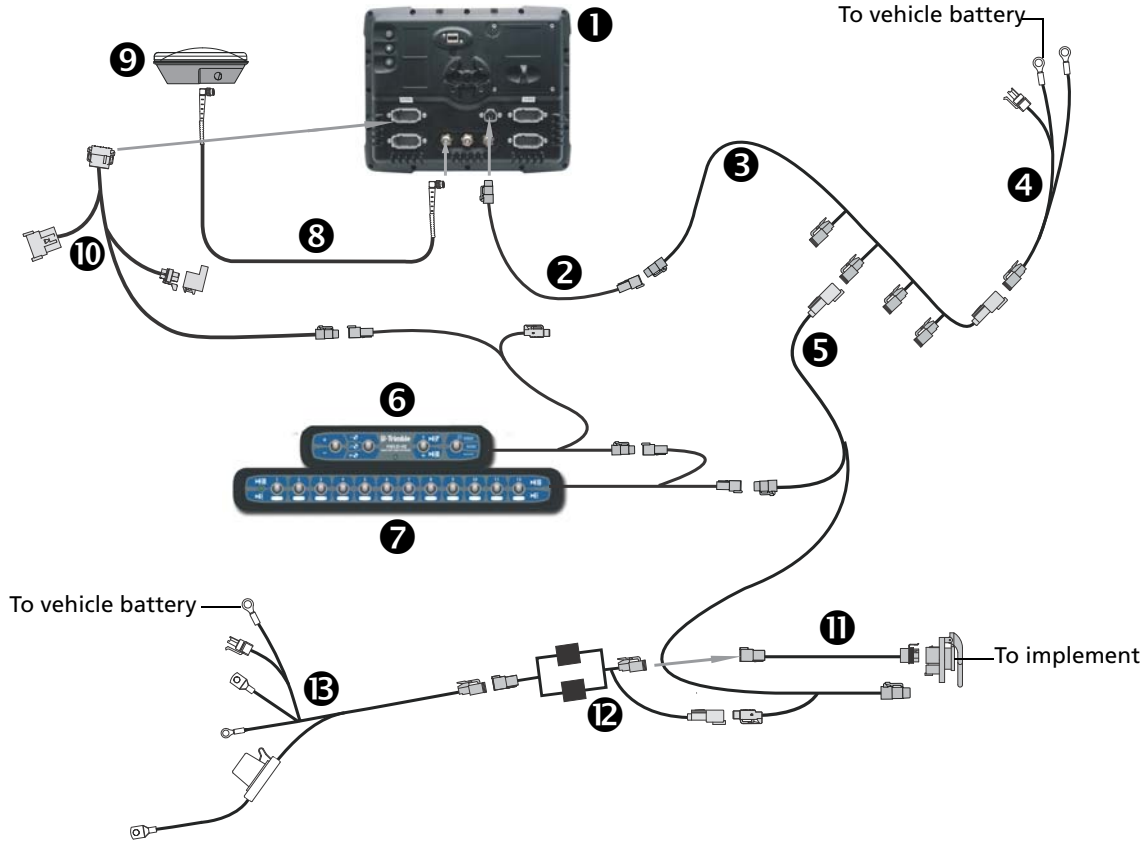
Connecting the FmX integrated display with the Field-IQ cab kit, and a Powell hitch connector:



Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	Cab to hitch CAN cable	77368
6	Field-IQ master switch box	75050-01
7	12 section switch box (optional)	75060-01
8	8 m TNC/TMC right-angle GPS cable	50449
9	Ag25 GNSS antenna	77038-00
10	FmX integrated display to Field-IQ cable	75834
11	IBRC to DPT adapter cable (optional)	77413
12	Power to cab cable	76941

FmX / Field-IQ cab kit / Powell hitch connector / power relay

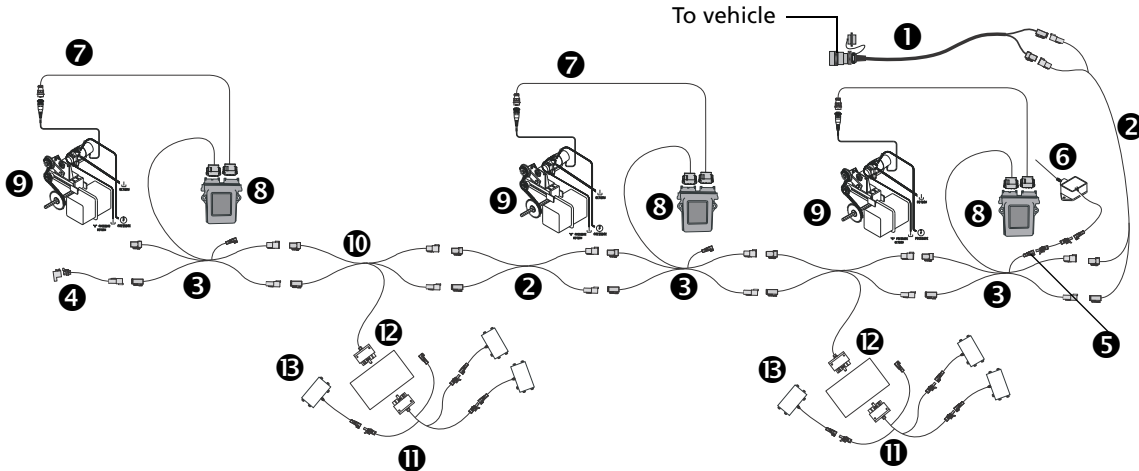
Connecting the FmX integrated display, Field-IQ cab kit, power relay, and Powell hitch connector:



Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	Cab to hitch CAN cable	77368
6	Field-IQ master switch box	75050-01
7	12 section switch box (optional)	75060-01
8	8m TNC/TMC right-angle GPS cable	50449
9	Ag25 GNSS antenna	77038-00
10	FmX integrated display to Field-IQ cable	75834
11	IBRC to DPT adapter cable (optional)	77413
12	Dual relay power cutoff cable	77533
13	Power to cab cable	76941

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

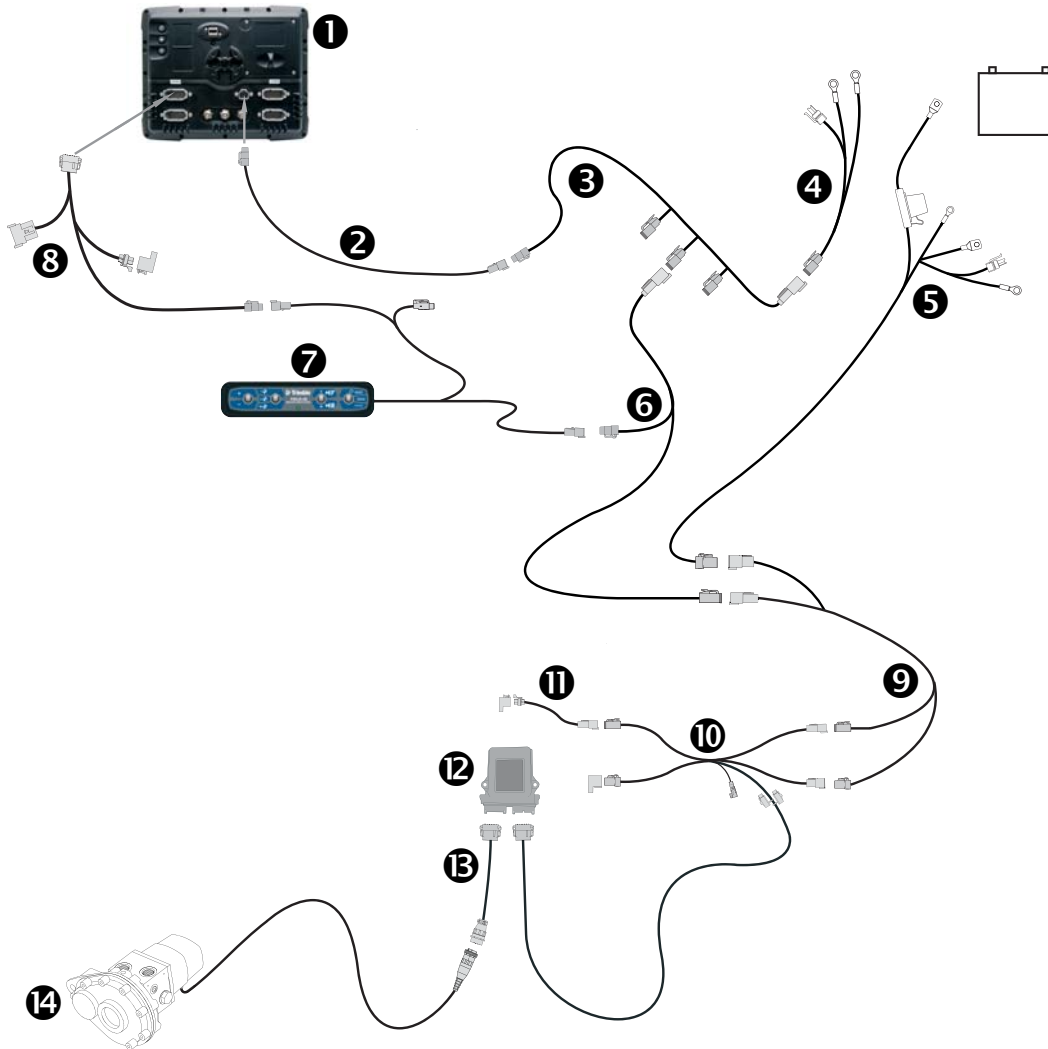
This figure shows how to connect the Field-IQ system with the Rawson Par 2 drive, and the Tru Count Air Clutch®:



Item	Description	Trimble part number
①	Implement harness (Powell adapter), optional	77611-01
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	CAN-T Magnus cable	75524
⑪	Switching module to valve module cable	76859
⑫	Switch control module	75774-05
⑬	Tru Count module	68355-00

FmX / Field-IQ cab kit / Rawson PAR 40

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

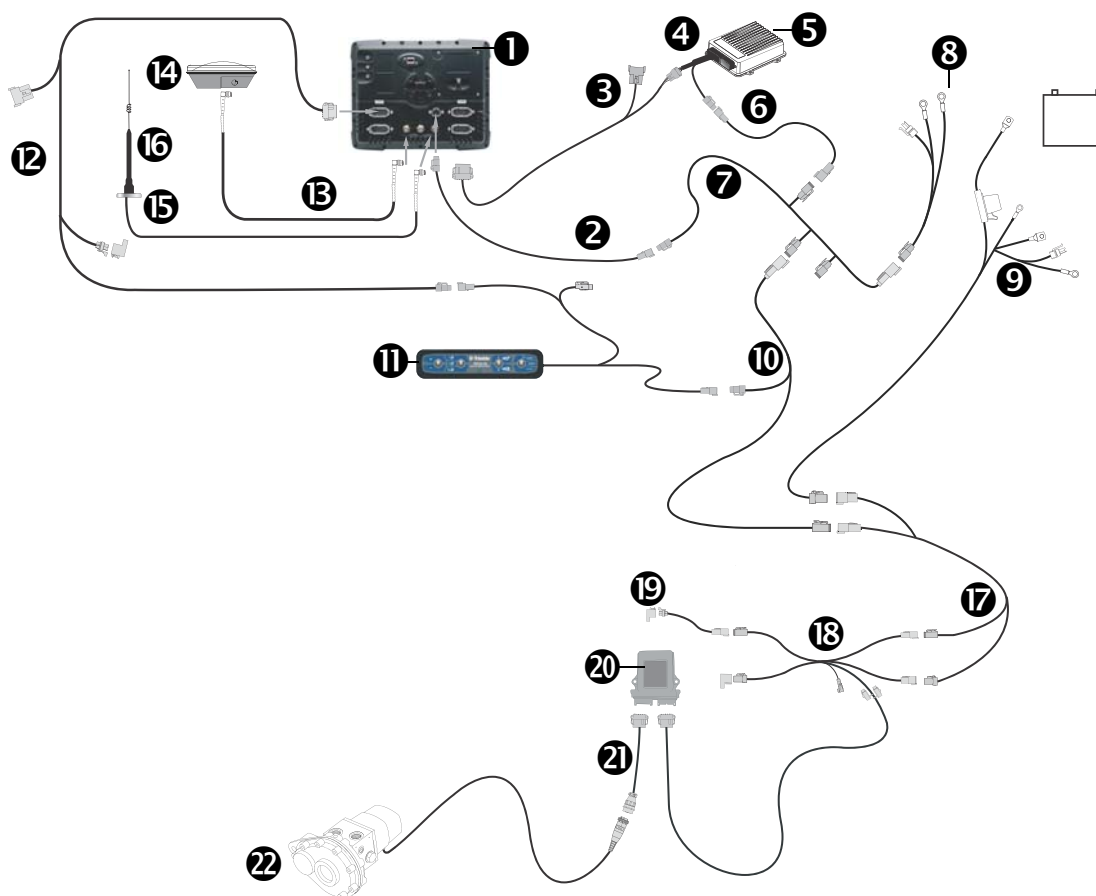


Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	Power to cab cable	76941
6	Cab to hitch CAN cable	77368
7	Field-IQ master switch box	75050-01
8	FmX integrated display to Field-IQ cable	75834

Item	Description	Trimble part number
⑨	CAN to power extension cable	75528-xx
⑩	Rawson module Tee cable	75527
⑪	Implement terminator kit (includes 75491)	75529
⑫	Rawson control module	75070-00
⑬	Rawson motor CPC to DTM cable	75531
⑭	Rawson PAR 40 motor	304152

FmX / Autopilot / Field-IQ cab kit / Rawson PAR 40 / RTK Corrections

This figure shows how to connect the FmX integrated display with the Autopilot system, the Field-IQ cab kit and the Rawson™ PAR 40 motor, using RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ③ to the P4 or P12 connector of the NavController II harness ④ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

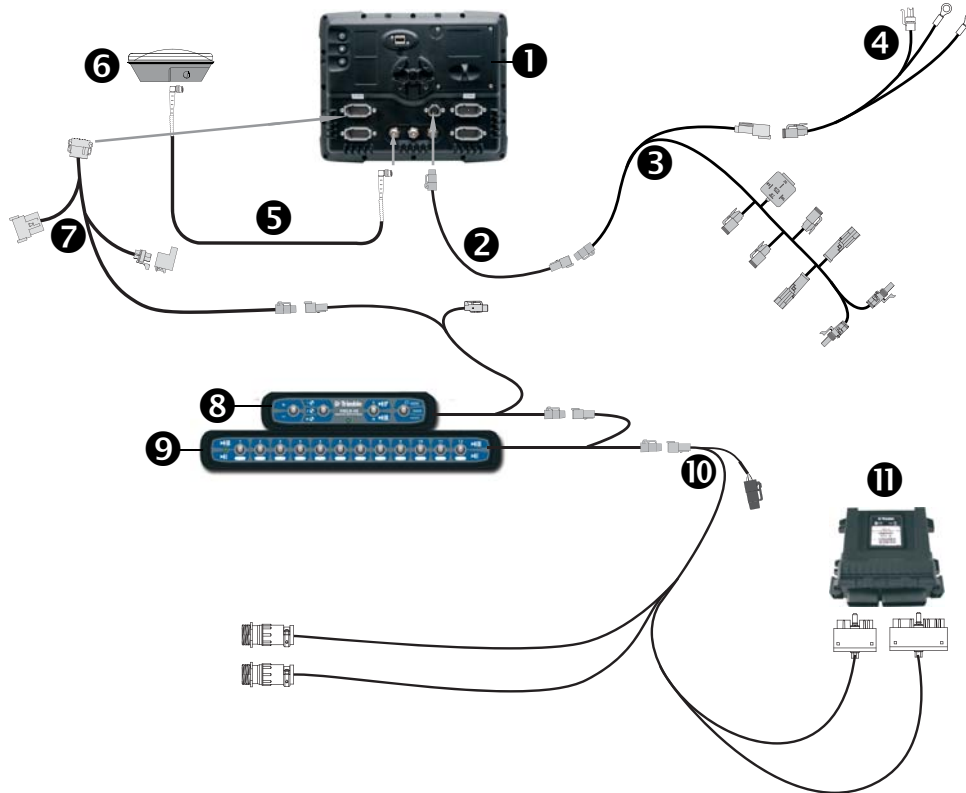
Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX to NavController II cable with port replicator	75741
④	Main NavController II cable	54601
⑤	NavController II	55563-00
⑥	2 pin DTM to 2 pin DT power adaptor	67095

5 Connecting the Field-IQ Crop Input Control System

Item	Description	Trimble part number
7	FmX 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	Field-IQ master switch box	75050-01
12	FmX integrated display to Field-IQ cable	75834
13	8 m GPS TNC/TNC RT angle cable	50449
14	Ag25 GNSS antenna	77038-00
15	NMO to TNC 20ft antenna cable and base	62120
16	900 MHz radio antenna kit	22882-10
17	CAN to power extension cable	75528-xx
18	Rawson module Tee cable	75527
19	Implement terminator kit (includes 75491)	75529
20	Rawson control module	75070-00
21	Rawon motor CPC to DTM cable	75531
22	Rawson PAR 40 motor	304152

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

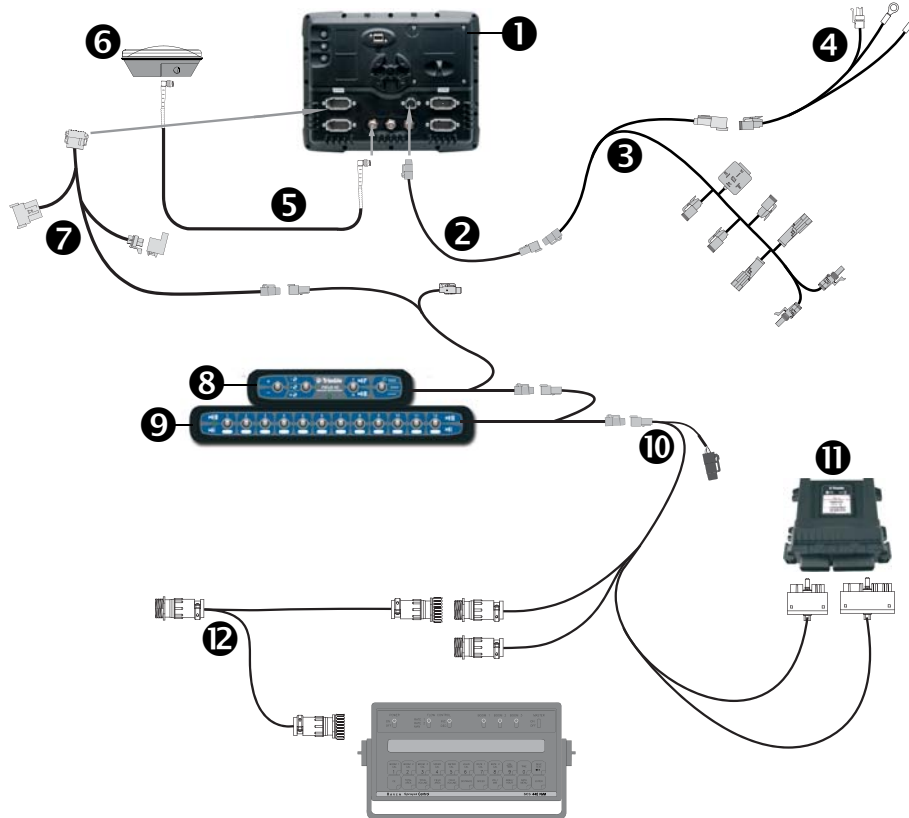
Connecting the FmX integrated display with Field-IQ Rate and Section Control and the Raven 4x0 or EZ-Boom cables:



Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
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	12 section switch box (optional)	75060-01
⑩	Rate and Section Control module adapter cable	75503
⑪	Rate and Section Control module	75774-00

FmX / Field-IQ Section Control only to the Raven 4x0

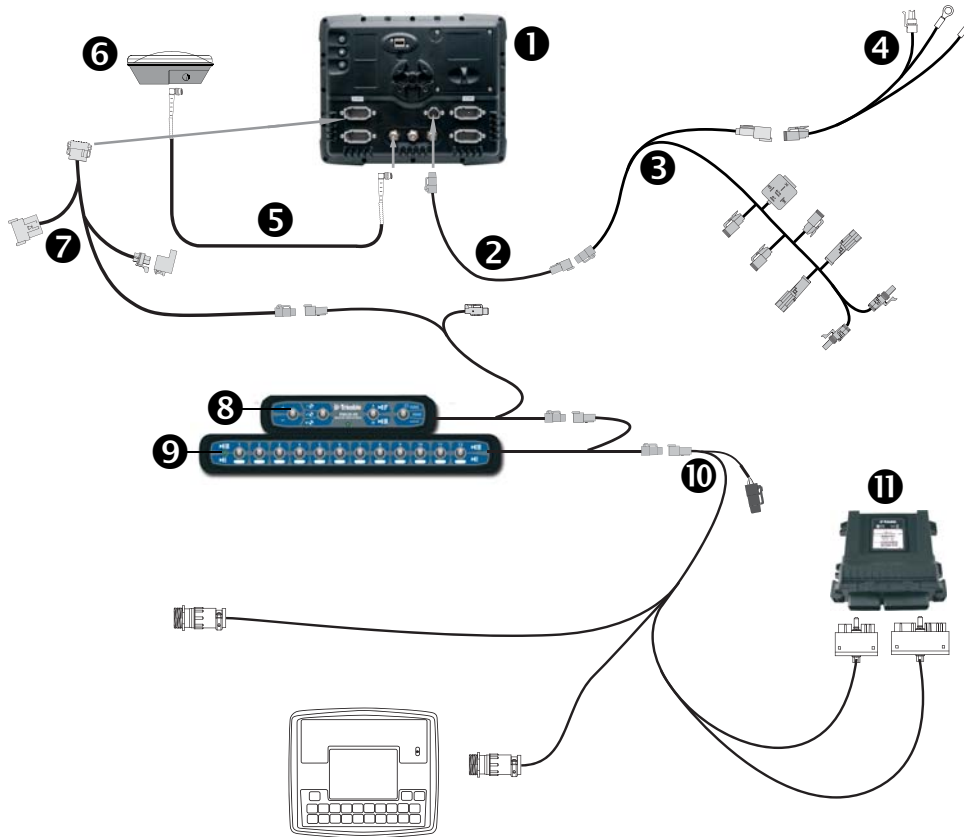
This figure shows how to connect the FmX integrated display with Field-IQ Section Control only to the Raven 4x0 controller:



Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
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	12 section switch box (optional)	75060-01
⑩	Rate and Section Control module adapter cable	75503
⑪	Rate and Section Control module	75774-00
⑫	Raven-to-EZ-Boom system 4x0 T-cable	79514

FmX / Field-IQ Section Control to Raven 4x00

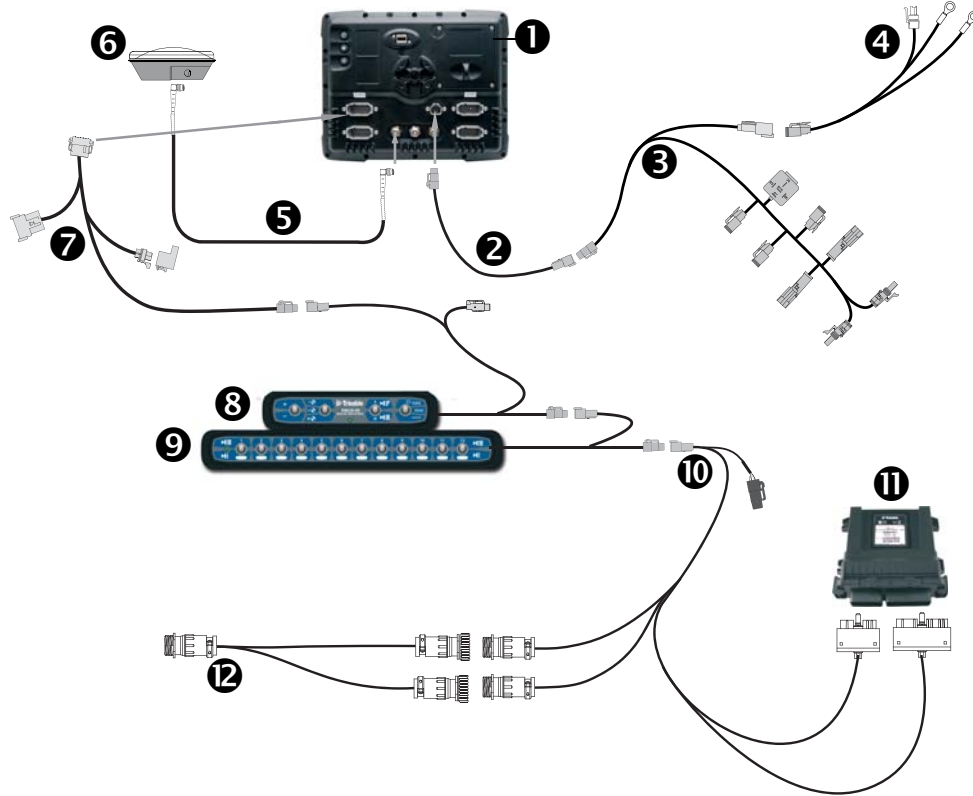
Connecting the FmX integrated display with Field-IQ Section Control to the Raven 4x00 controller:



Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
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	12 section switch box (optional)	75060-01
⑩	Rate and Section Control module adapter cable	79854
⑪	Rate and Section Control module	75774-00

FmX / Field-IQ Rate and Section Control to Raven 4x00

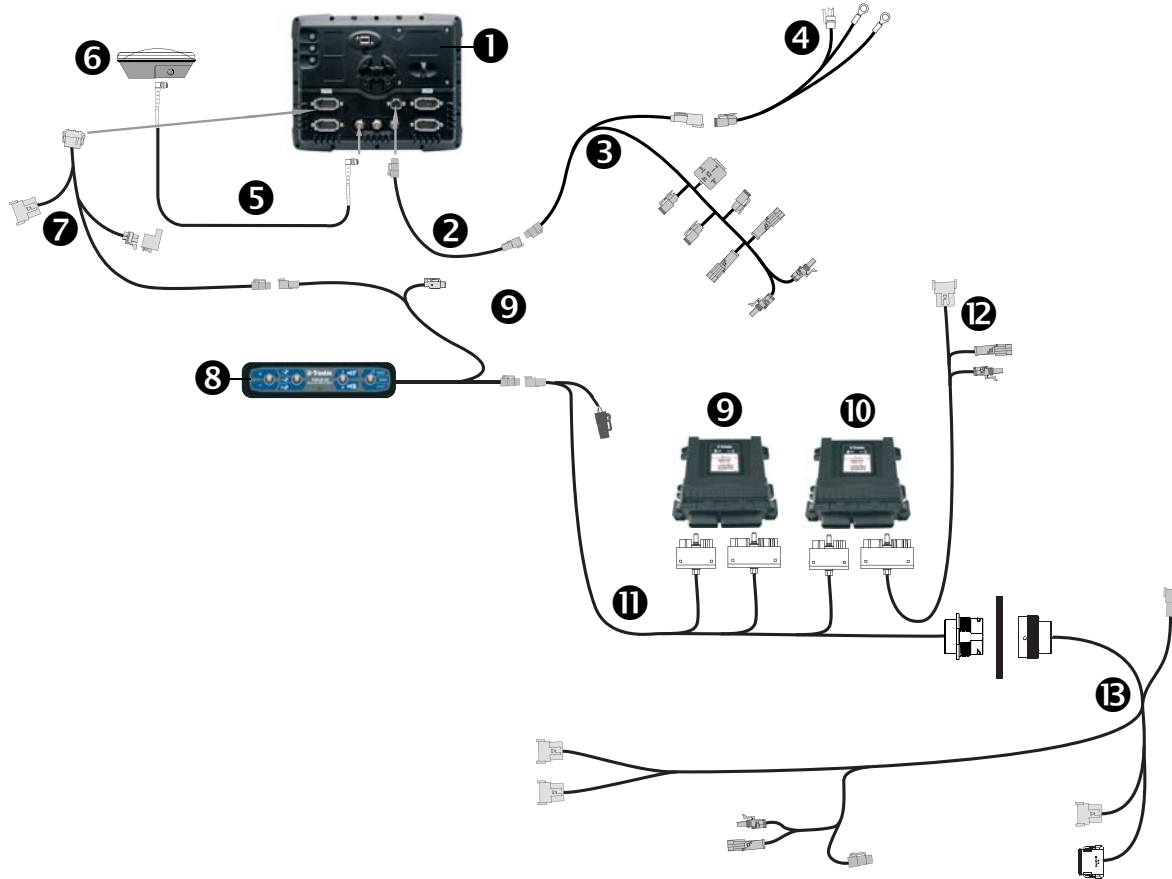
Connecting the FmX integrated display with Field-IQ Rate and Section Control and the Raven 4x00 cables:



Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
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	12 section switch box (optional)	75060-01
⑩	Rate and Section Control module adapter cable	75503
⑪	Rate and Section Control module	75774-00
⑫	Raven 4x0-to-4x00 harness adapter	59943

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

Connecting the FmX integrated display with Field-IQ Rate and Section Control for Case IH SPX sprayers (2009 or later):



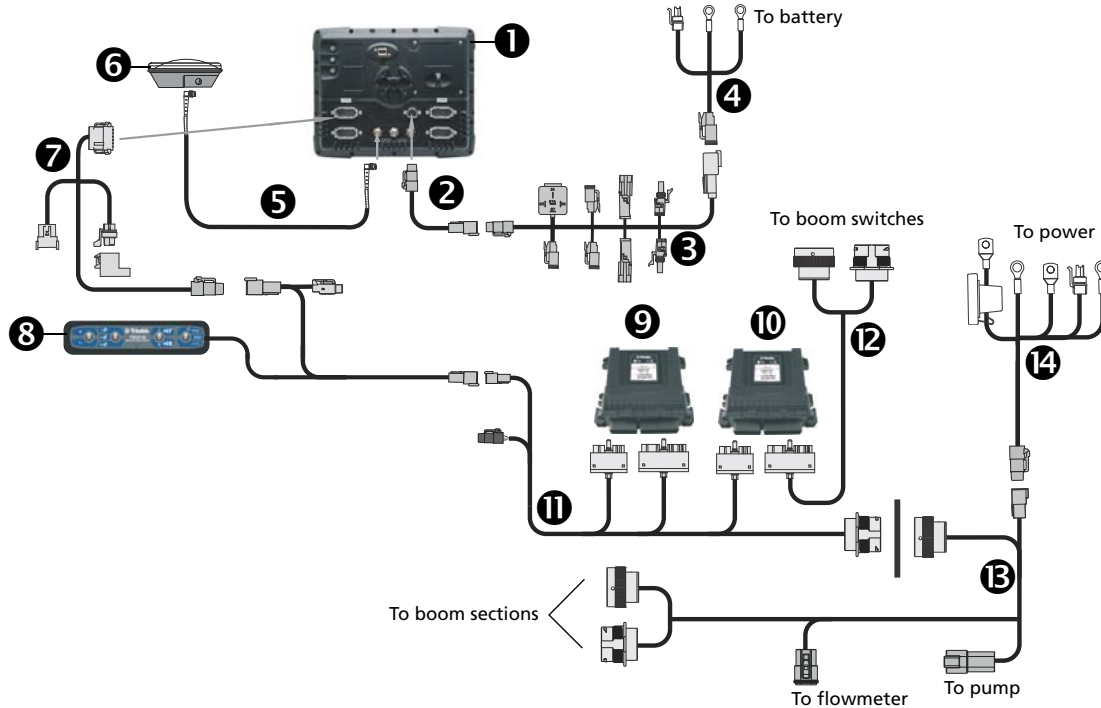
Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	Power bus	67259
4	Basic power cable	67258
5	8 m GPS TNC/TNC RT angle cable	50449
6	Ag25 GNSS antenna	77038-00
7	Display-to-Field-IQ cable	75834
8	Field-IQ master switch box	75050-01
9	Rate and section control module	75774-00
10	Signal input module	76774-00

5 Connecting the Field-IQ Crop Input Control System

Item	Description	Trimble part number
①	Field-IQ-to-sprayer cab cable	80099
②	Field-IQ SPX switch input cable (2009 and later)	80254
③	Field-IQ SPX chassis harness cable (2009 and later)	80250

FmX / Field-IQ Rate and Section Control to AGCO RoGator (2007 and later)

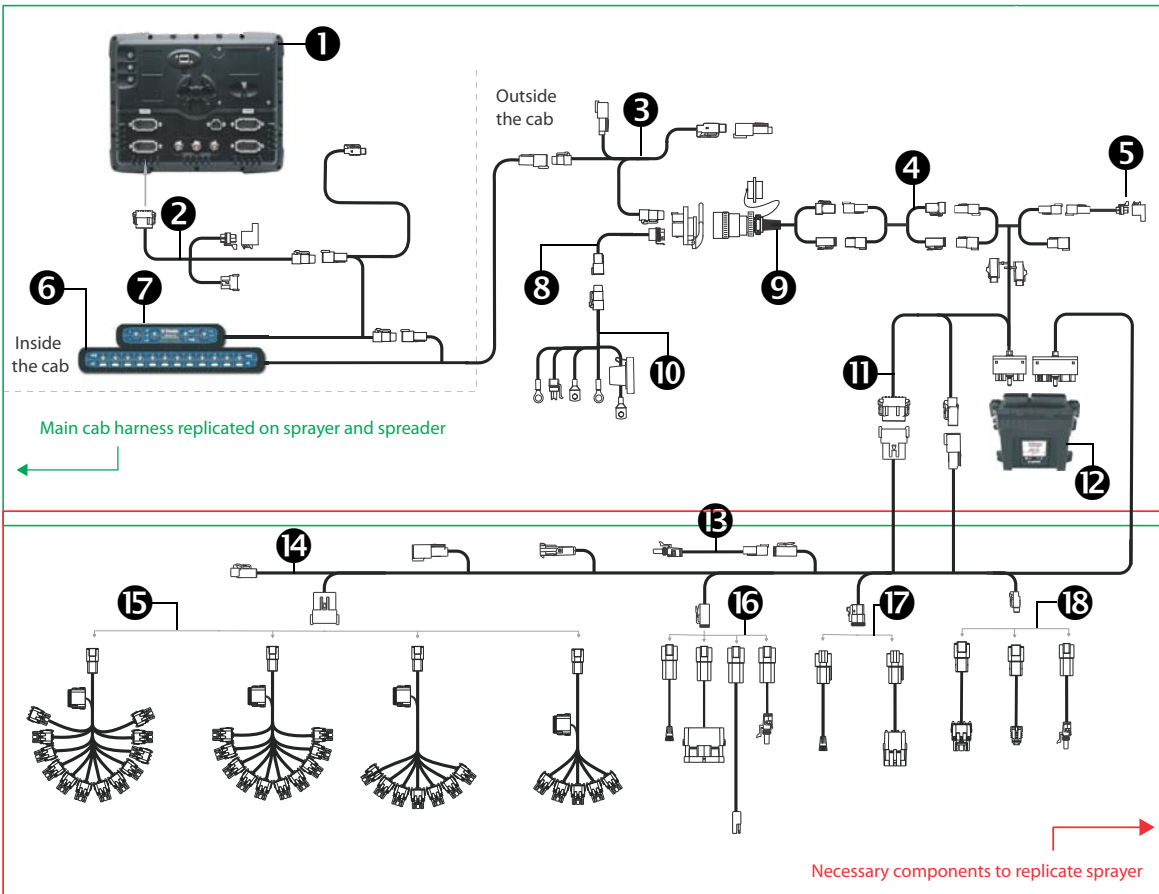
Connecting the FmX integrated display, Field-IQ Rate and Section Control and AGCO RoGator:



Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
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	Rate and section control module	75774-00
⑩	Signal input module	76774-00
⑪	Field-IQ-to-sprayer cab cable	80099
⑫	Field-IQ-to-RoGator switch input cable	80347
⑬	Field-IQ-to-RoGator chassis harness cable	80417
⑭	Field-IQ-to-power cab cable	76941

FmX / Field-IQ cab kit / NH3 and liquid application full harness

Connecting the FmX integrated display to the Field-IQ cab kit and the Rate and Section Control module with full NH3/liquid harness:

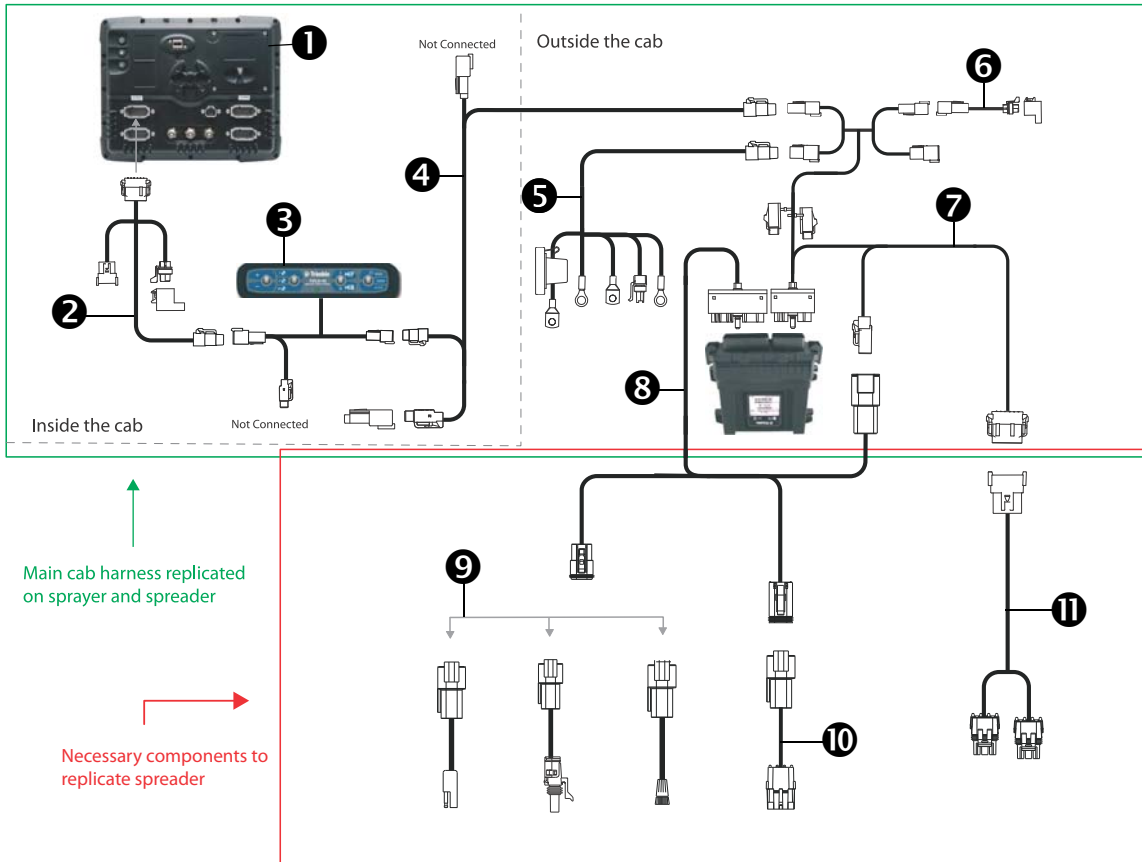


Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	Cab to hitch CAN cable	77368
4	CAN/power extension cable	75528-xx
5	Field-IQ implement terminator adapter	75529
6	Field-IQ 12-section switch box, optional	75060-01
7	Field-IQ master switch box	75050-01
8	Powell quick disconnect (tractor side), optional	77413
9	Implement harness (Powell adapter) - implement side, optional	77611-01
10	Power to cab cable	76941
11	Power/CANbus harness	75526

Item	Description	Trimble part number
⑫	Rate and section control module	75774-00
⑬	Raven on/off valve adapter	81023
⑭	Field-IQ Rate and Section implement adapter	80540
⑮	Section valve adapter cable (left to right): - Field-IQ to 12 section Raven adapter (3 wire) - Field-IQ to 10 section Raven adapter (3 wire) - Field-IQ to 7 section Raven adapter (3 wire) - Field-IQ to 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: - 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 54618

FmX / Autopilot / Field-IQ cab kit / Spreader

Connecting the FmX integrated display, Field-IQ cab kit and the Rate and Section Control Module for spreader applications:

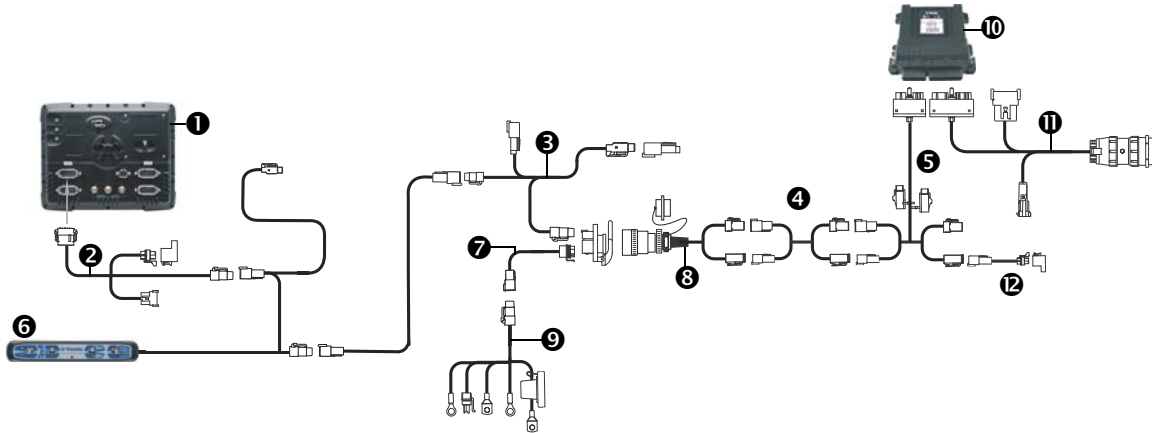


Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	Display to Field-IQ cable	75834
3	Field-IQ master switch box	75050-01
4	Cab to hitch CAN cable	77368
5	Power to cab cable	76941
6	Field-IQ implement terminator adapter	75529
7	Power/CANbus harness	75526
8	Field-IQ universal spreader breakout cable	80553
9	Flow control adapter cable: - Field-IQ to Raven Fast Valve - Field-IQ to Raven control valve adapter - Dickey-john PWM control valve adapter (2 pin)	80534 80586 80960

Item	Description	Trimble part number
⑩	Field-IQ to Dickey-john encoder/flowmeter	80539
⑪	Field-IQ, spreader gate height and spinner speed adapter cable	80507

FmX / Field-IQ Cab Kit / Seed Monitoring Only

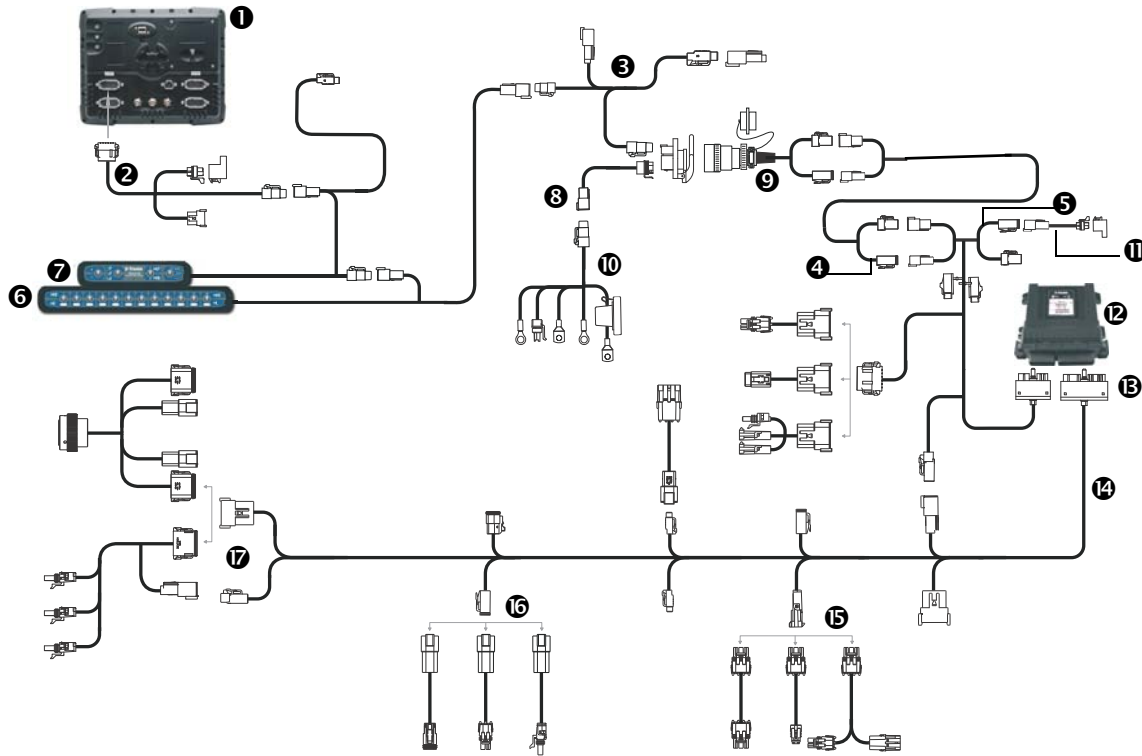
Connecting the FmX integrated display with Field-IQ cab kit and the Seed Monitoring module:



Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	Display to Field-IQ cable	75834
③	Cab to hitch CAN cable	77368
④	CAN/Power extension cable	75528-XX
⑤	Cable assembly, rate/section module tee	75526
⑥	Field-IQ master switchbox	75050-01
⑦	Powell Quick Disconnect (Tractor Side) (optional)	77413
⑧	Implement harness (Powell adapter), implement side (optional)	77611-01
⑨	Power to cab cable	76941
⑩	Seed Monitoring Module (SMM)	76774-05
⑪	Existing population sensor harness adapters	
	Seed Monitoring Module Adapter PM style (24 or less rows)	82537
	Seed Monitoring Module Adapter PM style (25 -32 rows)	82539
	Seed Monitoring Module Adapter CT style (24 or less rows)	82536
	Seed Monitoring Module Adapter CT style (25 - 32 rows)	82538
⑫	Field-IQ implement terminator adapter	75529

FmX / Field-IQ Cab Kit / Row Section Control

Connecting the FmX integrated display to the Field-IQ cab kit with the section-only control for Tru Count or John Deere row command clutches.



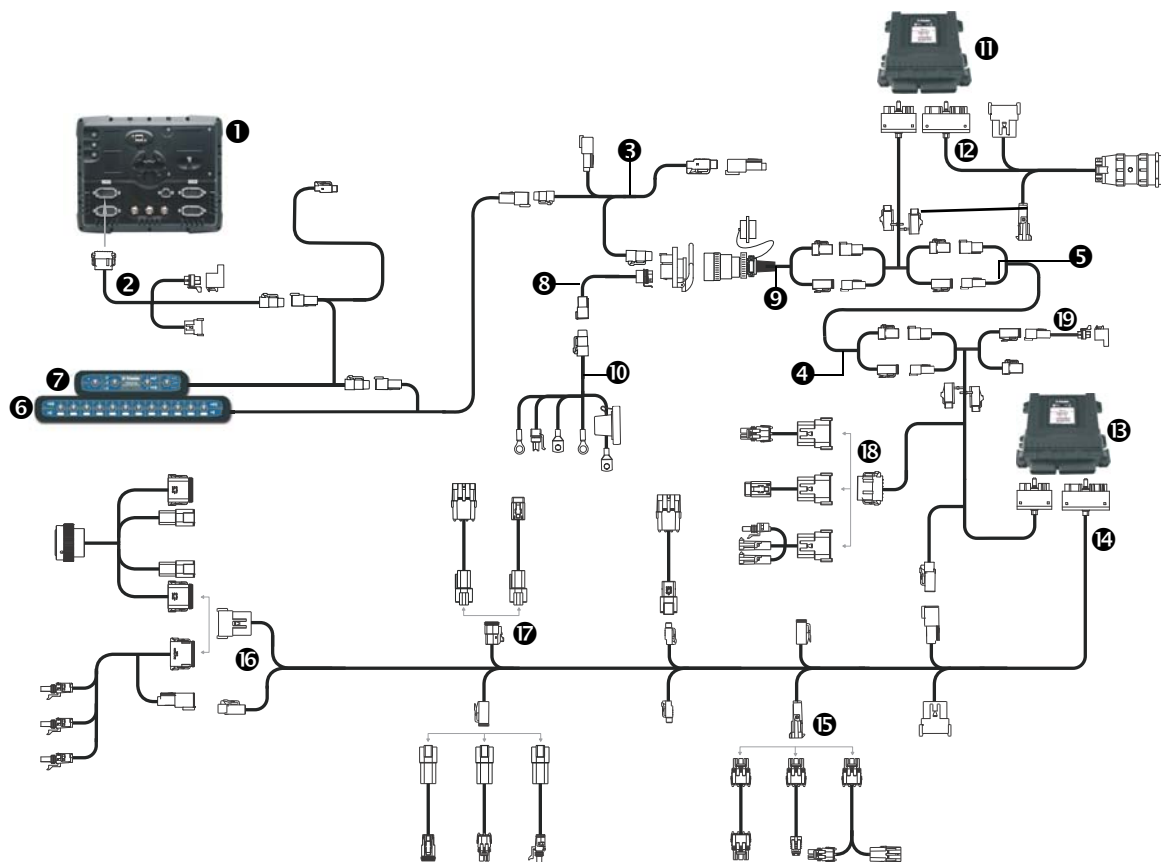
Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	Display to Field-IQ cable	75834
③	Cab to hitch CAN cable	77368
④	CAN/Power extension cable	75528-XX
⑤	Cable Assy, rate/section module tee	75526
⑥	Field-IQ 12-section switchbox (optional)	75060-01
⑦	Field-IQ master switchbox	75050-01
⑧	Powell quick disconnect, tractor side (optional)	77413
⑨	Implement harness (Powell adapter), implement side (optional)	77611-01
⑩	Power to cab cable	76941
⑪	Field-IQ implement terminator adapter	75529
⑫	Section control module (II)	75774-10
⑬	Field-IQ rate and section implement adapter	80540

5 Connecting the Field-IQ Crop Input Control System

Item	Description	Trimble part number
14	Implement lift switch adapter	
	Field-IQ to John Deere implement lift switch	82743
	Field-IQ to Case IH implement switch	82922
	Field-IQ To Kinze implement switch	82924
	10' implement switch extension cable	77543
	Whisker switch	77636
15	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
16	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
17	Bin level sensor adapter and fan speed sensor adapter	
	Field-IQ to John Deere bin level sensor	82789
	Field-IQ to Case IH bin level sensor	82920
	White Bin/Hopper level sensor adapter	82928
	Case IH RPM sensor adapter	82923

FmX / Field-IQ cab kit / Seed monitoring / Row section control

Connecting the FmX integrated display to the Field-IQ cab kit with the Seed Monitoring Module and Section only control for Tru Count or John Deere Row Command Clutches..



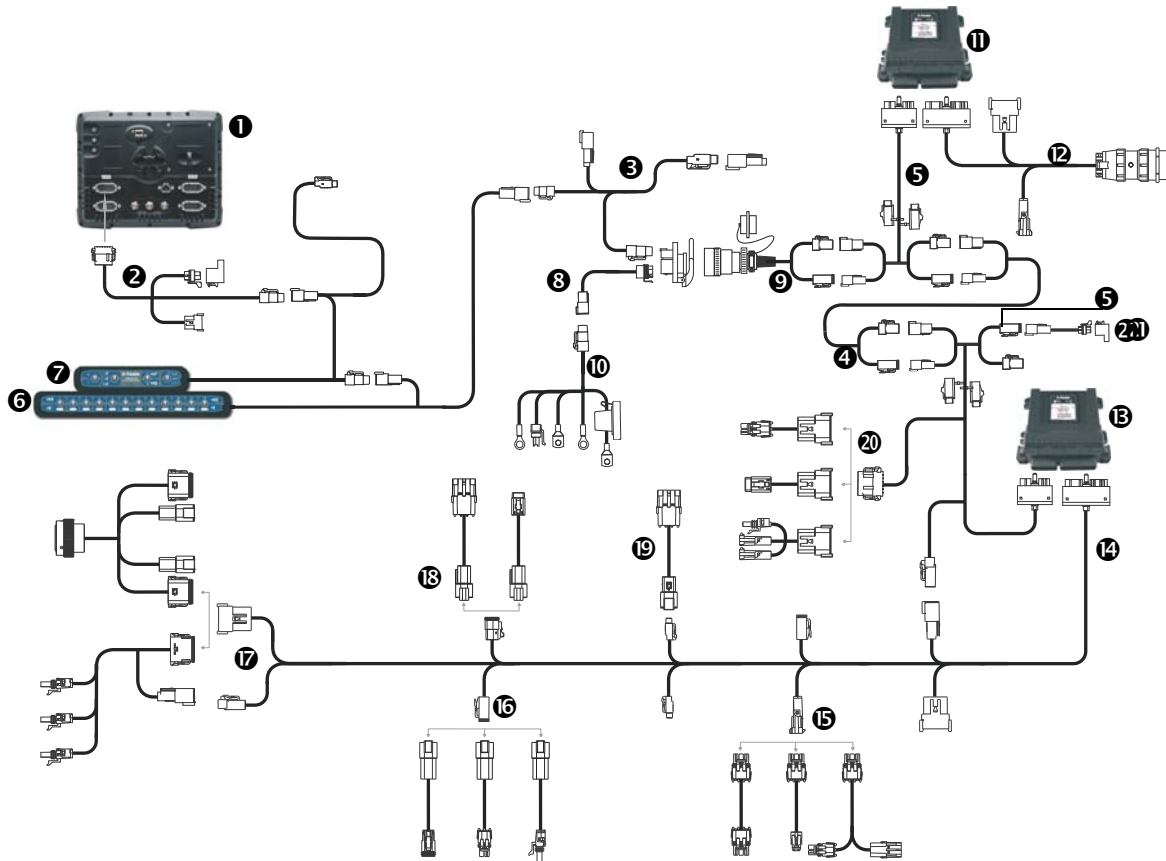
Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	Display to Field-IQ cable	75834
③	Cab to hitch CAN cable	77368
④	CAN/Power extension cable	75528-XX
⑤	Cable Assy, rate/section module tee	75526
⑥	Field-IQ 12-section switchbox (optional)	75060-01
⑦	Field-IQ master switchbox	75050-01
⑧	Powell quick disconnect, tractor side (optional)	77413
⑨	Implement harness (Powell adapter), implement side (optional)	77611-01
⑩	Power to cab cable	76941
⑪	Seed Monitoring Module (SMM)	76774-05

5 Connecting the Field-IQ Crop Input Control System

Item	Description	Trimble part number
12	Existing population sensor harness adapters	
	Seed Monitoring Module Adapter PM style (24 or less rows)	82537
	Seed Monitoring Module Adapter PM style (25 -32 rows)	82539
	Seed Monitoring Module Adapter CT style (24 or less rows)	82536
	Seed Monitoring Module Adapter CT style (25 - 32 rows)	82538
13	Section control module (II)	76774-05
14	Field-IQ rate and section implement adapter	75774-10
15	Implement lift switch adapter	
	Field-IQ to John Deere implement lift switch	82743
	Field-IQ to Case IH implement switch	82922
	Field-IQ To Kinze implement switch	82924
	10' implement switch extension cable	77543
	Whisker switch	77636
16	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
17	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
18	Bin level sensor adapter and fan speed sensor adapter	
	Field-IQ to John Deere bin level sensor	82789
	Field-IQ to Case IH bin level sensor	82920
	White Bin/Hopper level sensor adapter	82928
	Case IH RPM sensor adapter	82923
19	Field-IQ implement terminator adapter	75529

FmX / Field-IQ cab kit / Seed monitoring / Rate and Section Control

Connecting the FmX integrated display to the Field-IQ cab kit with the Seed Monitoring Module and Rate and Section control for Tru Count or John Deere Row Command Clutches with existing PWM drives.

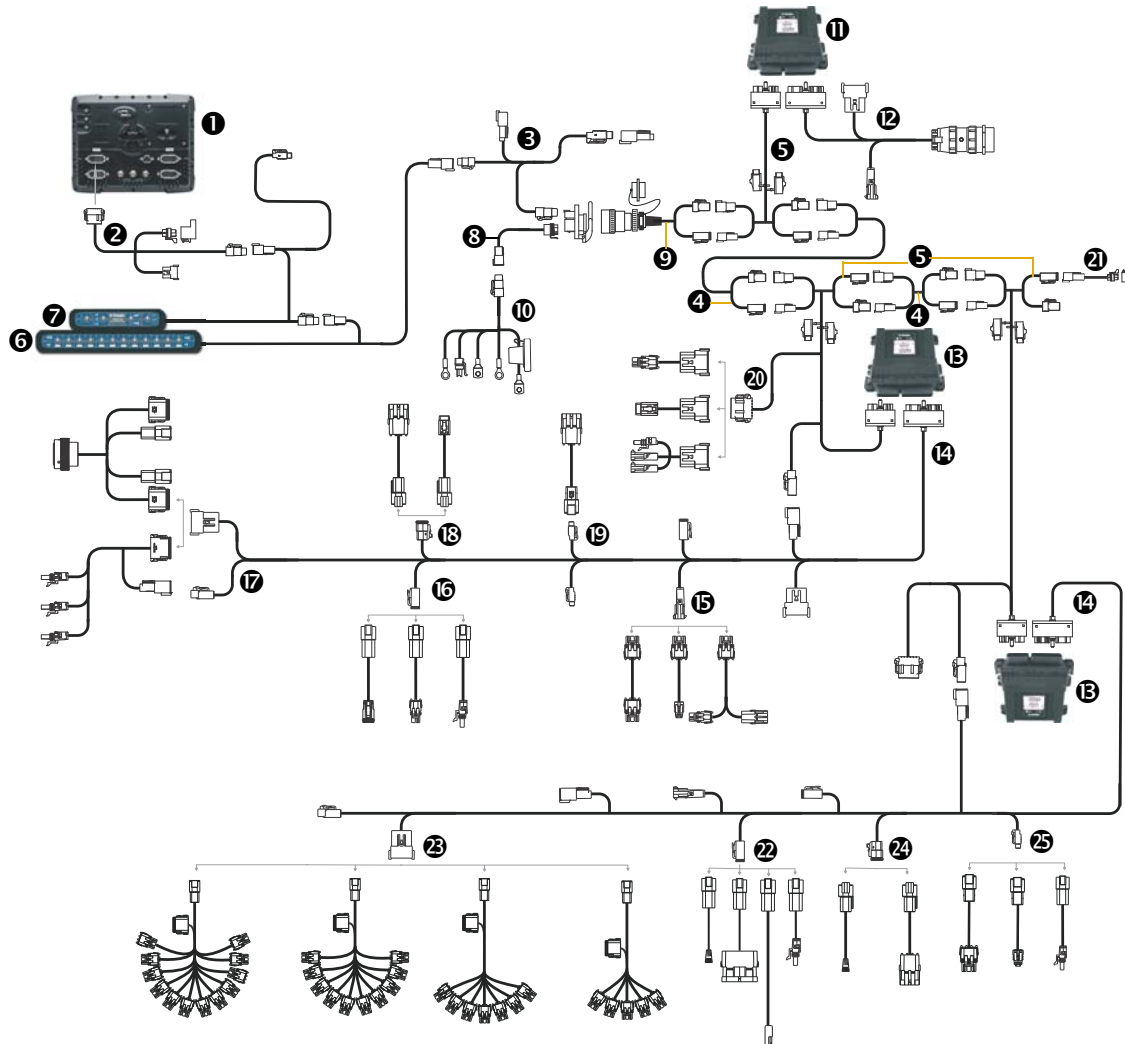


Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	Display to Field-IQ cable	75834
3	Cab to hitch CAN cable	77368
4	CAN/Power extension cable	75528-XX
5	Cable Assy, rate/section module tee	75526
6	Field-IQ 12-section switchbox (optional)	75060-01
7	Field-IQ master switchbox	75050-01
8	Powell quick disconnect, tractor side (optional)	77413
9	Implement harness (Powell adapter), implement side (optional)	77611-01

Item	Description	Trimble part number
⑩	Power to cab cable	76941
⑪	Seed Monitoring Module (SMM)	76774-05
⑫	Existing population sensor harness adapters	
	Seed Monitoring Module Adapter PM style (24 or less rows)	82537
	Seed Monitoring Module Adapter PM style (25 -32 rows)	82539
	Seed Monitoring Module Adapter CT style (24 or less rows)	82536
	Seed Monitoring Module Adapter CT style (25 - 32 rows)	82538
⑬	Rate and section control module)	75774-00
⑭	Field-IQ rate and section implement adapter	80540
⑮	Implement lift switch adapter	
	Field-IQ to John Deere implement lift switch	82743
	Field-IQ to Case IH implement switch	82922
	Field-IQ To Kinze implement switch	82924
	10' implement switch extension cable	77543
	Whisker switch	77636
⑯	PWM drive adapter	
	Field-IQ to Kinze 2-wire/John Deere PWM	82706
	Field-IQ to Case IH/Kinze PWM	82919
	DJ PWM, control valve adapter	80960
⑰	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
⑱	Application rate sensor adapter	
	Field-IQ to Dickey-john Encoder/Flowmeter (JD/Case IH/Kinze)	80539
	Field-IQ to Case IH application rate sensor	82921
⑲	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
⑳	Bin level sensor adapter and fan speed sensor adapter	
	Field-IQ to John Deere bin level sensor	82789
	Field-IQ to Case IH bin level sensor	82920
	White Bin/Hopper level sensor adapter	82928
	Case IH RPM sensor adapter	82923
㉑	Field-IQ implement terminator adapter	75529

FmX / Field-IQ cab kit / Seed monitoring / Rate and Section Control/ Liquid Control

Connecting the FmX integrated display to the Field-IQ cab kit with the Seed Monitoring Module and Rate and Section control for Tru Count or John Deere Row Command Clutches with existing PWM drives. Liquid control is added using the Rate and Section Control Module and adapter cables.



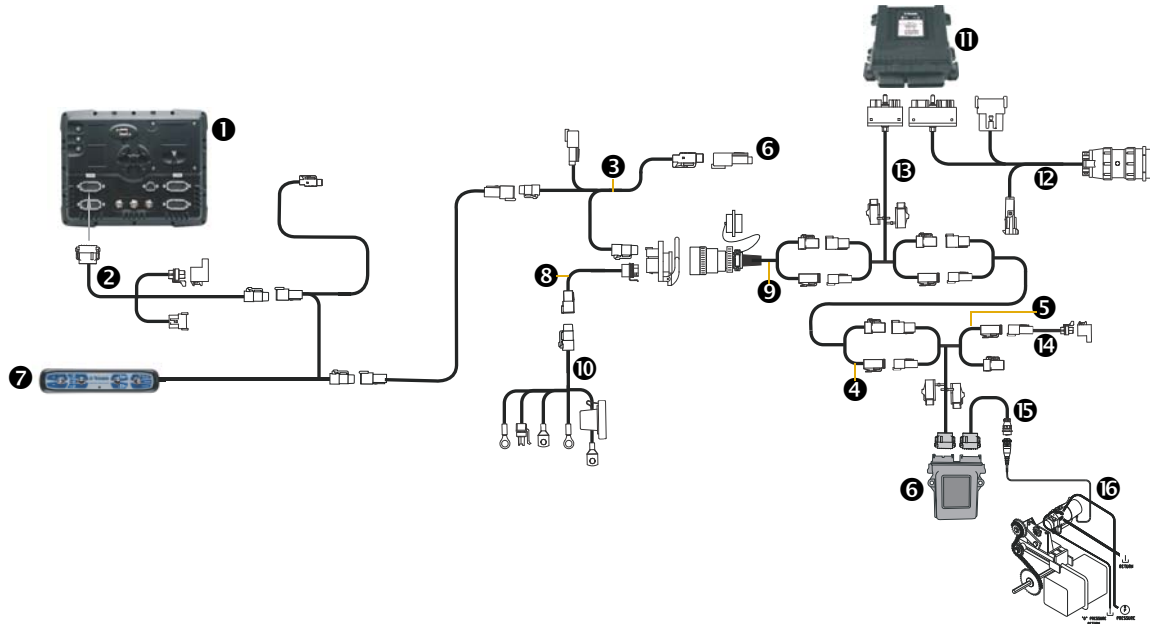
Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	Display to Field-IQ cable	75834
3	Cab to hitch CAN cable	77368
4	CAN/Power extension cable	75528-XX
5	Cable Assy, rate/section module tee	75526
6	Field-IQ 12-section switchbox (optional)	75060-01

Item	Description	Trimble part number
7	Field-IQ master switchbox	75050-01
8	Powell quick disconnect, tractor side (optional)	77413
9	Implement harness (Powell adapter), implement side (optional)	77611-01
10	Power to cab cable	76941
11	Seed Monitoring Module (SMM)	76774-05
12	Existing population sensor harness adapters	
	Seed Monitoring Module Adapter PM style (24 or less rows)	82537
	Seed Monitoring Module Adapter PM style (25 -32 rows)	82539
	Seed Monitoring Module Adapter CT style (24 or less rows)	82536
	Seed Monitoring Module Adapter CT style (25 - 32 rows)	82538
13	Rate and section control module	75774-00
14	Field-IQ rate and section implement adapter	80540
15	Implement lift switch adapter	
	Field-IQ to John Deere implement lift switch	82743
	Field-IQ to Case IH implement switch	82922
	Field-IQ To Kinze implement switch	82924
	10' implement switch extension cable	77543
	Whisker switch	77636
16	PWM drive adapter	
	Field-IQ to Kinze 2-wire/John Deere PWM	82706
	Field-IQ to Case IH/Kinze PWM	82919
	Dickey-john PWM, control valve adapter	80960
17	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
18	Application rate sensor adapter	
	Field-IQ to Dickey-john Encoder/Flowmeter (JD/Case IH/Kinze)	80539
	Field-IQ to Case IH application rate sensor	82921
19	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
20	Bin level sensor adapter and fan speed sensor adapter	
	Field-IQ to John Deere bin level sensor	82789
	Field-IQ to Case IH bin level sensor	82920
	White Bin/Hopper level sensor adapter	82928
	Case IH RPM sensor adapter	82923
21	Field-IQ implement terminator adapter	75529

Item	Description	Trimble part number
22	Flow Control Adapter	
	Field-IQ to Raven fast valve (new style)	80534
	Field-IQ to Dickey-john control valve (6 pin)	80531
	Field-IQ to Raven control valve adapter (2 pin)	80586
	Dickey-john PWM control valve adapter (2 wire)	80960
	Control valve, Field-IQ to Kinze (4 Wire)	81614
	Field IQ to Raven fast valve (old style)	81554
	Field-IQ to Kinze 2 wire/John Deere PWM	82706
	Field-IQ To Raven standard valve (new style)	81970
23	Section Valve Adapter	
	Field-IQ to 5 section Raven adapter (3 wire)	80587
	Field-IQ to 7 section Raven adapter (3 wire)	77541
	Field-IQ to 10 section Raven adapter (3 wire)	78225
	Field-IQ to 12 section Raven adapter (3 wire)	80961
24	Flowmeter adapter	
	Field-IQ to Raven flowmeter adapter	80584
	Field-IQ to Dickey-john encoder/flowmeter	80539
25	Pressure sensor adapter	
	Field-IQ to Dickey-john pressure sensor adapter	80575
	Field-IQ to Raven pressure sensor adapter	80583
	Trimble pressure sensor adapter	54618

FmX / Field-IQ Cab Kit / Seed Monitoring / Rawson PAR 2 Seeding

Connecting the FmX integrated display to the Field-IQ cab kit with the Seed Monitoring Module and Rawson PAR 2 Control System.

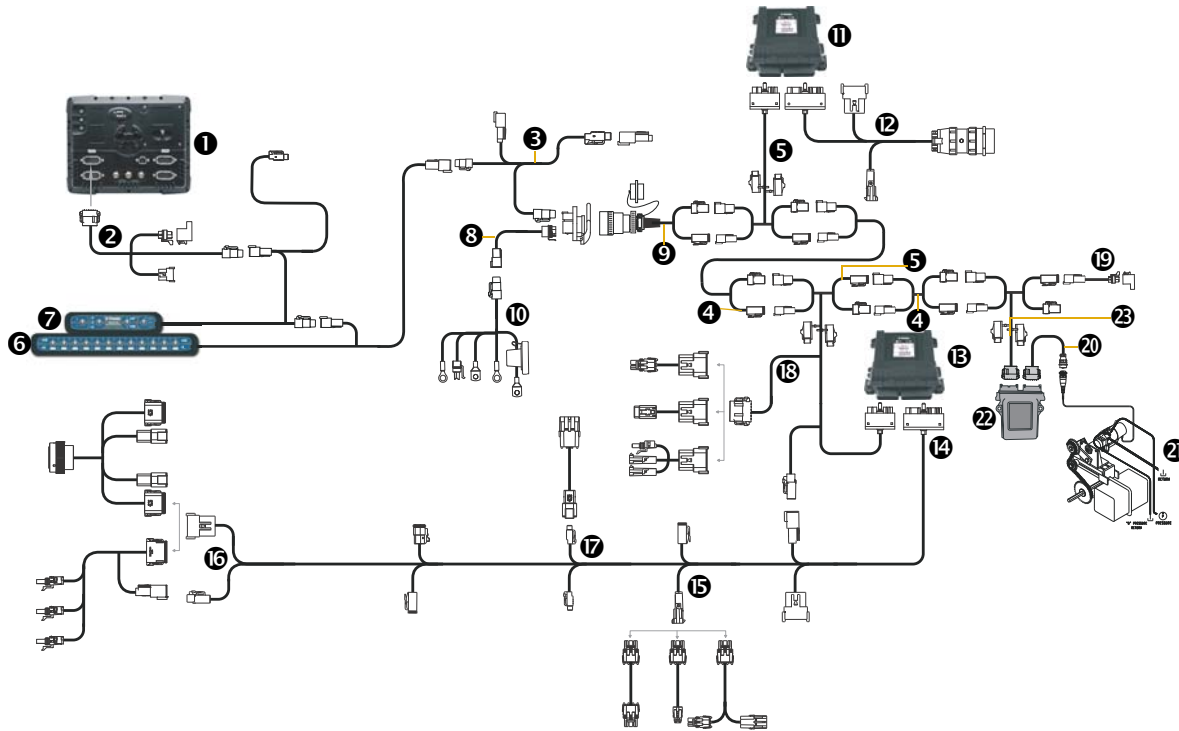


Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	Display to Field-IQ cable	75834
③	Cab to hitch CAN cable	77368
④	CAN/Power extension cable	75528-XX
⑤	Rawson Module Tee, Field-IQ	75527
⑥	Rawson Control Module	75070-00
⑦	Field-IQ master switchbox	75050-01
⑧	Powell quick disconnect, tractor side (optional)	77413
⑨	Implement harness (Powell adapter), implement side (optional)	77611-01
⑩	Power to cab cable	76941
⑪	Seed Monitoring Module (SMM)	76774-05
⑫	Existing population sensor harness adapters	
	Seed Monitoring Module Adapter PM style (24 or less rows)	82537
	Seed Monitoring Module Adapter PM style (25 -32 rows)	82539
	Seed Monitoring Module Adapter CT style (24 or less rows)	82536
	Seed Monitoring Module Adapter CT style (25 - 32 rows)	82538

Item	Description	Trimble part number
③	Cable Assy, Rate/section module tee	75526
④	Field-IQ Implement Terminator Adapter	75529
⑤	Rawson motor CPC to DTM cable	75531
⑥	Rawson PAR 2 motor	300499

FmX/Field-IQ Cab Kit / Seed Monitoring / Rawson PAR 2 Seeding / Row Section Control

Connecting the FmX integrated display to the Field-IQ cab kit with the Seed Monitoring Module, Rawson PAR 2 Control System and Section control for Tru Count or John Deere Row Command Clutches.



Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	Display to Field-IQ cable	75834
3	Cab to hitch CAN cable	77368
4	CAN/Power extension cable	75528-XX
5	Cable Assy, rate/section module tee	75526
6	Field-IQ 12-section switchbox (optional)	75060-01
7	Field-IQ master switchbox	75050-01
8	Powell quick disconnect, tractor side (optional)	77413
9	Implement harness (Powell adapter), implement side (optional)	77611-01
10	Power to cab cable	76941
11	Seed Monitoring Module (SMM)	76774-05

Item	Description	Trimble part number
12	Existing population sensor harness adapters	
	Seed Monitoring Module Adapter PM style (24 or less rows)	82537
	Seed Monitoring Module Adapter PM style (25 -32 rows)	82539
	Seed Monitoring Module Adapter CT style (24 or less rows)	82536
	Seed Monitoring Module Adapter CT style (25 - 32 rows)	82538
13	Section control module (II)	75774-10
14	Field-IQ rate and section implement adapter	80540
15	Implement lift switch adapter	
	Field-IQ to John Deere implement lift switch	82743
	Field-IQ to Case IH implement switch	82922
	Field-IQ To Kinze implement switch	82924
	10' implement switch extension cable	77543
	Whisker switch	77636
16	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
17	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
18	Bin level sensor adapter and fan speed sensor adapter	
	Field-IQ to John Deere bin level sensor	82789
	Field-IQ to Case IH bin level sensor	82920
	White Bin/Hopper level sensor adapter	82928
	Case IH RPM sensor adapter	82923
19	Field-IQ implement terminator adapter	75529
20	Rawson motor CPC to DTM cable	75531
21	Rawson PAR 2 motor	300499
22	Rawson Control Module	75070-00
23	Rawson Module Tee, Field-IQ	75527

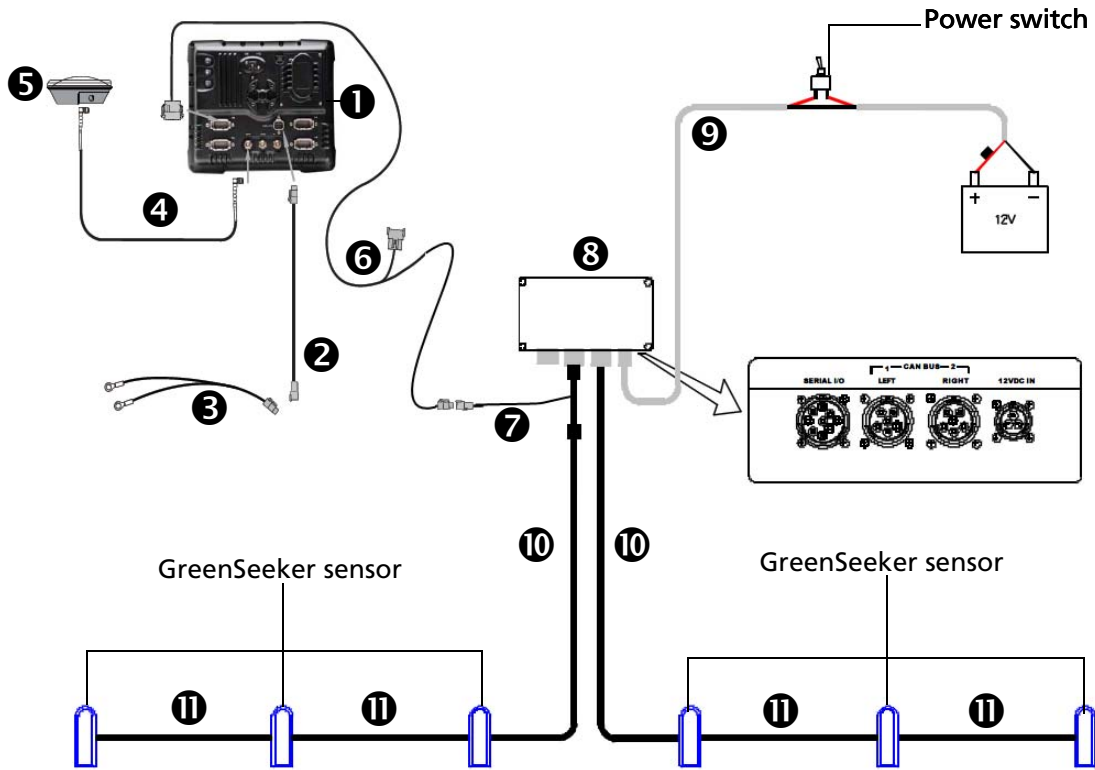
Connecting GreenSeeker

- [FmX / GreenSeeker](#)

This chapter shows how to connect the FmX integrated display to the GreenSeeker variable rate application and mapping system.

FmX / GreenSeeker

This figure shows how to connect the FmX integrated display with the GreenSeeker system, while using WAAS or EGNOS corrections.



Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
③	FmX basic power cable	67258
④	8 m GPS TNC/TNC RT angle cable	50449
⑤	Ag25 GNSS antenna	77038-00
⑥	Display to CAN with port replicator	75407
⑦	GreenSeeker to display cable	77704
⑧	RT200 interface module	900-1-047-EM
⑨	30' RT200 power cable	400-1-276-EM
⑩	20' RT200 interface module	400-1-277-EM
⑪	20' RT200 sensor cable	400-1-265-240-EM

Connecting to an EZ-Boom System

In this chapter:

- [Manual guidance FmX / EZ-Boom](#)
- [FmX / Autopilot / EZ-Boom / RTK corrections](#)
- [FmX / Autopilot / EZ-Boom / TrueTracker / RTK corrections](#)
- [FmX / EZ-Boom / EZ-Steer / RTK corrections / power bus](#)
- [FmX / EZ-Boom / EZ-Steer / RTK corrections / external power leads](#)

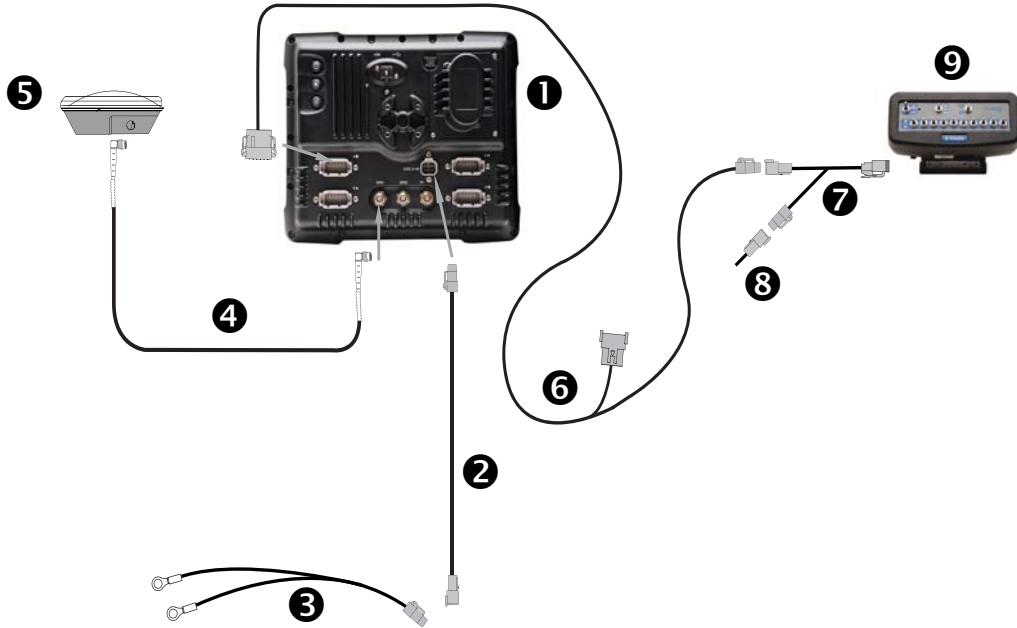
This chapter shows the different ways to connect the FmX integrated display to the EZ-Boom automated application control system.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

Manual guidance FmX / EZ-Boom

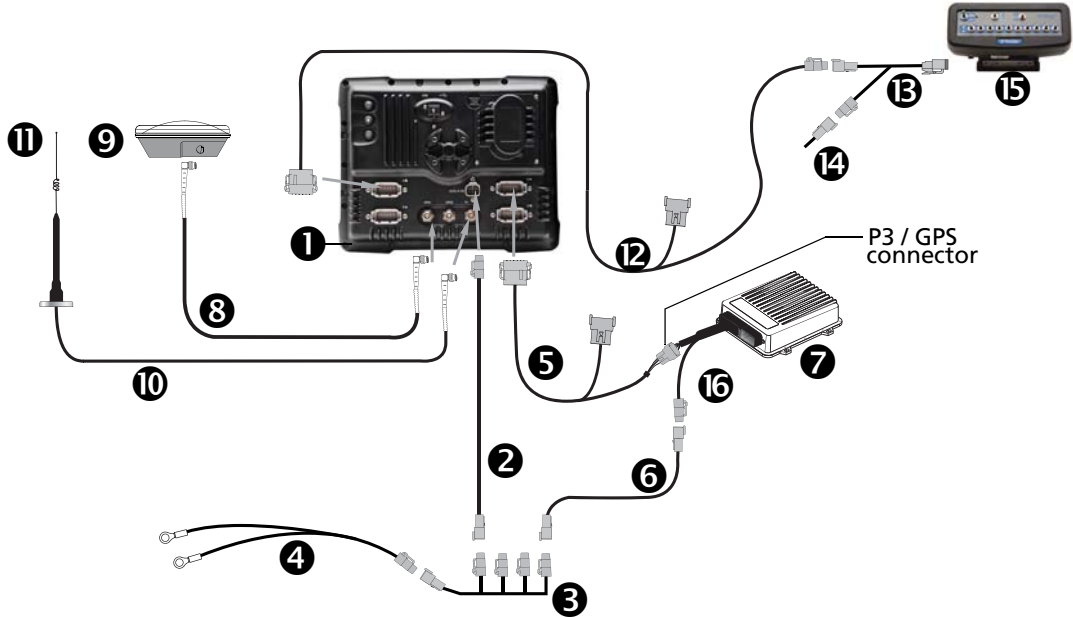
This figure shows how to connect the FmX integrated display with the EZ-Boom automated application control system, while using manual guidance:



Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
③	FmX basic power cable	67258
④	8 m GPS TNC/TNC RT angle cable	50449
⑤	Ag25 GNSS antenna	77038-00
⑥	FmX to CAN cable with port replicator	75407
⑦	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
⑧	CAN terminator	59783
⑨	EZ-Boom controller	59898-00

FmX / Autopilot / EZ-Boom / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system and the EZ-Boom automated application control system, to use RTK corrections:



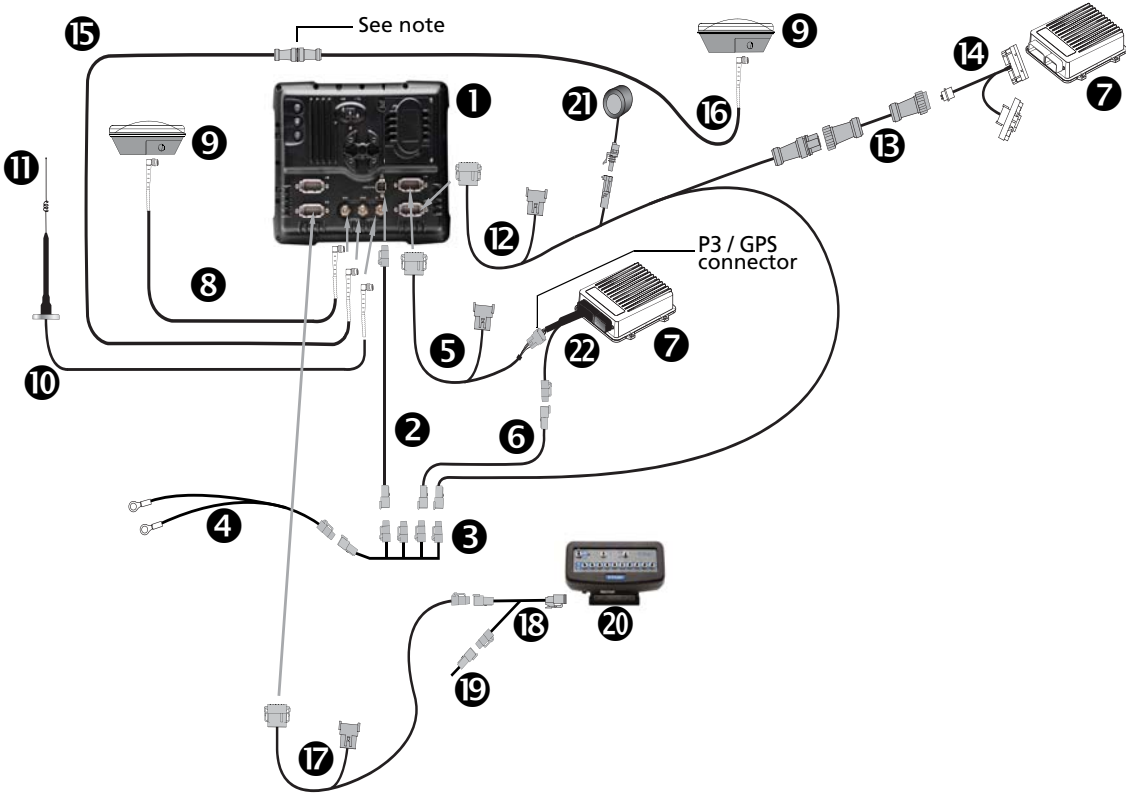
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 16 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20 ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	FmX to CAN cable with port replicator	75407
13	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437

Item	Description	Trimble part number
④	CAN terminator	59783
⑤	EZ-Boom controller	59898-00
⑥	Main NavController II cable	54601

FmX / Autopilot / EZ-Boom / TrueTracker / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system and TrueTracker and EZ-Boom systems, while using RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 22 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

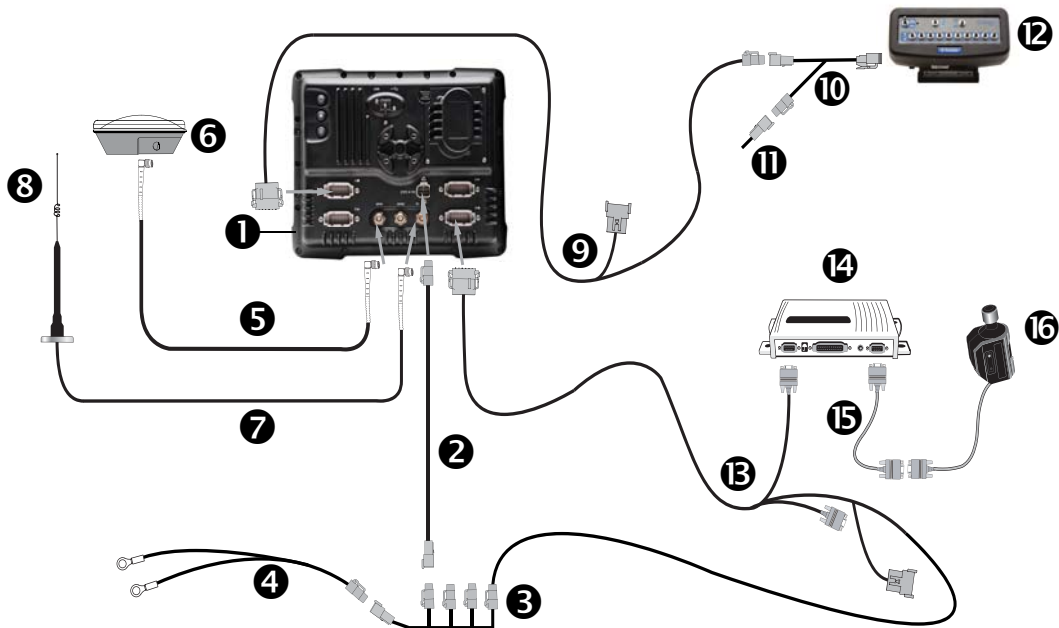
Note – An optional LMR400 65’ extension cable (P/N 67473) is available for implements with a long tongue.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II (x2)	55563-00

Item	Description	Trimble part number
8	8 m GPS TNC/TNC RT angle cable	50449
9	Ag25 GNSS antenna (x2)	77038-00
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	FmX to TrueTracker cable	67092
13	Implement extension cable	0793-8740-450
14	FmX to NavController II and TrueTracker main harness	67612
15	Coaxial 160" N/f + TNC/m-ra cable	68295
16	Coaxial 480" N/m + TNC/m-ra cable	67472
17	FmX to CAN cable with port replicator	75407
18	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
19	CAN terminator	59783
20	EZ-Boom controller	59898-00
21	Sonalert	43104
22	Main NavController II cable	54601

FmX / EZ-Boom / EZ-Steer / RTK corrections / power bus

This figure shows how to connect the FmX integrated display with the EZ-Steer and EZ-Boom systems to use RTK corrections:



Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	FmX basic power cable	67258
5	8 m GPS TNC/TNC RT angle cable	50449
6	Ag25 GNSS antenna	77038-00
7	NMO to TNC 20 ft antenna cable and base	62120
8	900 MHz radio antenna kit	22882-10
9	FmX to CAN cable with port replicator	75407
10	EZ-Boom 2010 to FmX display and EZ-Guide 500 cable	61437
11	CAN terminator	59783
12	EZ-Boom controller	59898-00
13	FmX to EZ-Steer cable	75742
14	EZ-Steer controller	53348-10

Item	Description	Trimble part number
⑮	EZ-Steer motor cable	62257
⑯	EZ-Steer motor	53058-00

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

Note – To use the EZ-Guide 500 lightbar cable (P/N 62974) and instructions on how to repin the cable, see the support bulletin AgGPS FmX - Modifying EZ-Steer Cable P/N 62974 For Use With FmX.

Item	Description	Trimble part number
⑫	FmX to EZ-Steer cable	75742
⑬	EZ-Steer controller	53348-10
⑭	EZ-Steer motor cable	62257
⑮	EZ-Steer motor	53058-00
⑯	Unterminated power cable	75743

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

Note – To use the EZ-Guide 500 lightbar cable (P/N 62974) and instructions on how to repin the cable, see the support bulletin AgGPS FmX - Modifying EZ-Steer Cable P/N 62974 For Use With FmX.

Connecting to Radar Output and Serial Control

In this chapter:

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

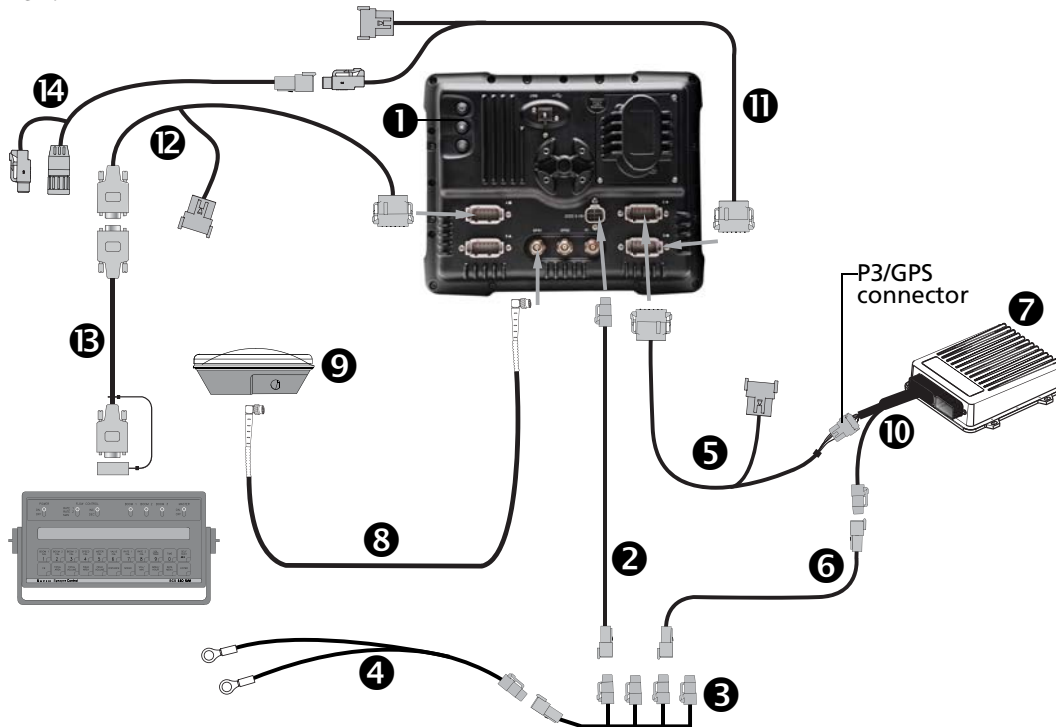
This chapter shows the different ways to connect the FmX integrated display to equipment from third-party equipment for radar output and serial control.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

FmX / Autopilot / radar output / serial variable rate for Raven SCS400 or SCS600

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, radar output, and serial variable rate for Raven SCS400 or SCS600:



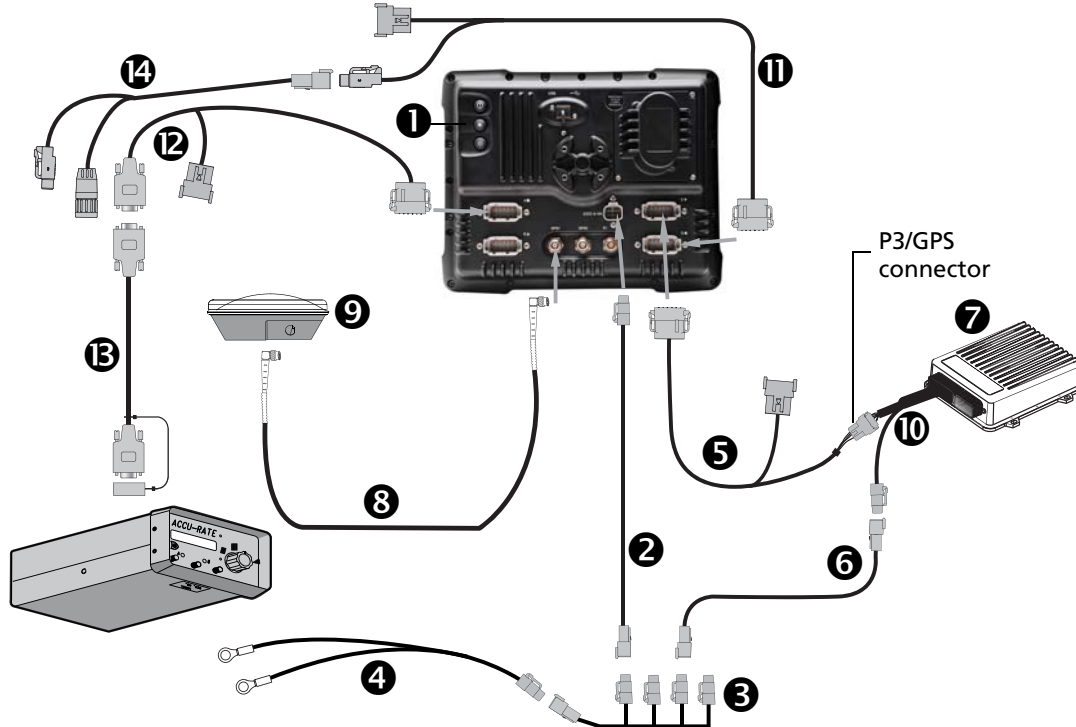
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ⑩ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	FmX 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
⑩	Main NavController II cable	54601
⑪	FmX universal radar adaptor	68461

Item	Description	Trimble part number
②	FmX to DE9, RS232	67091
③	FmX / FM-1000 / EZ-Guide 500 to Raven variable rate adaptor	69729
④	Cable, radar speed output, Raven	64272

FmX / Autopilot / radar output / serial variable rate for Rawson

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, radar output, and serial variable rate for Rawson systems:



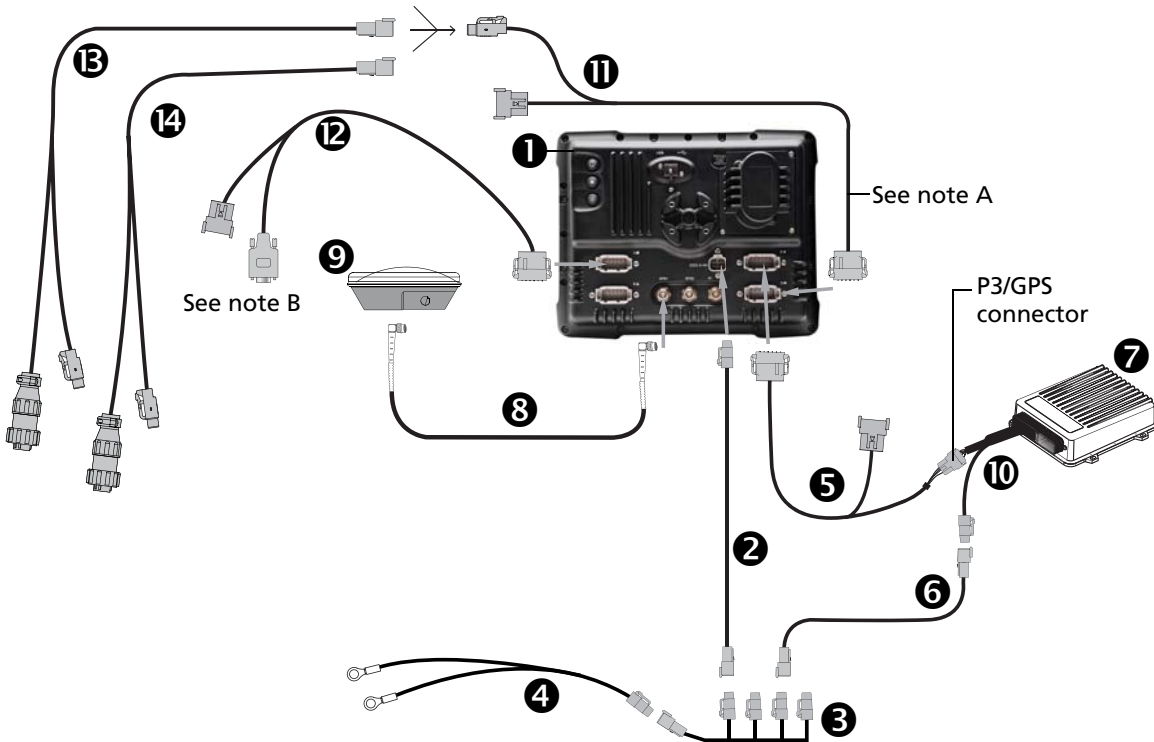
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	Main NavController II cable	54601
11	FmX universal radar adaptor	68461

Item	Description	Trimble part number
②	FmX to DE9, RS232	67091
③	FmX / FM-1000 / EZ-Guide 500 to Rawson variable rate adaptor	69730
④	Rawson radar speed output cable	64273

FmX / Autopilot / radar output / serial variable rate

This figure shows how to connect the FmX integrated 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 FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note A – The radar output cable must be connected to port C or D.

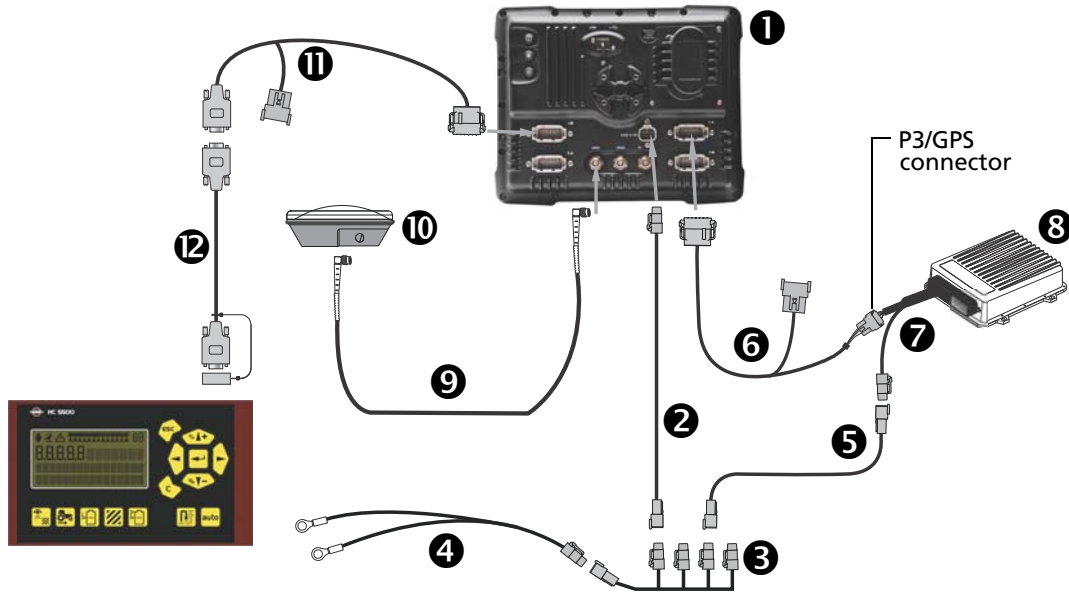
Note B – To rate controller.

Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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

Item	Description	Trimble part number
⑨	Ag25 GNSS antenna	77038-00
⑩	Main NavController II cable	54601
⑪	FmX universal radar adaptor	68461
⑫	FmX to DE9, RS232	67091
⑬	Cable, radar speed output, DICKEY-john	64273
⑭	Cable, radar speed output, Hiniker	64274

FmX / Autopilot / serial connection for Hardi 5500 controller

This figure shows how to connect the FmX integrated 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 FmX to NavController II cable ⑥ to the P4 or P12 connector of the NavController II harness ⑦ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

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

Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
③	FmX 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	FmX to NavController II cable with port replicator	75741
⑦	Main NavController II cable	54601
⑧	NavController II	55563-00
⑨	8 m GPS TNC/TNC RT angle cable	50449
⑩	Ag25 GNSS antenna	77038-00

Item	Description	Trimble part number
①	FmX to DE9, RS232	67091
②	DB9(F) to DB9(F) null modem cable	59043

Connecting to a Tru Application Control System

In this chapter:

- [Manual guidance FmX / Tru Application Control](#)
- [FmX / Autopilot / Tru Application Control / RTK corrections](#)
- [FmX / Autopilot / Tru Application Control / TrueTracker / RTK corrections](#)

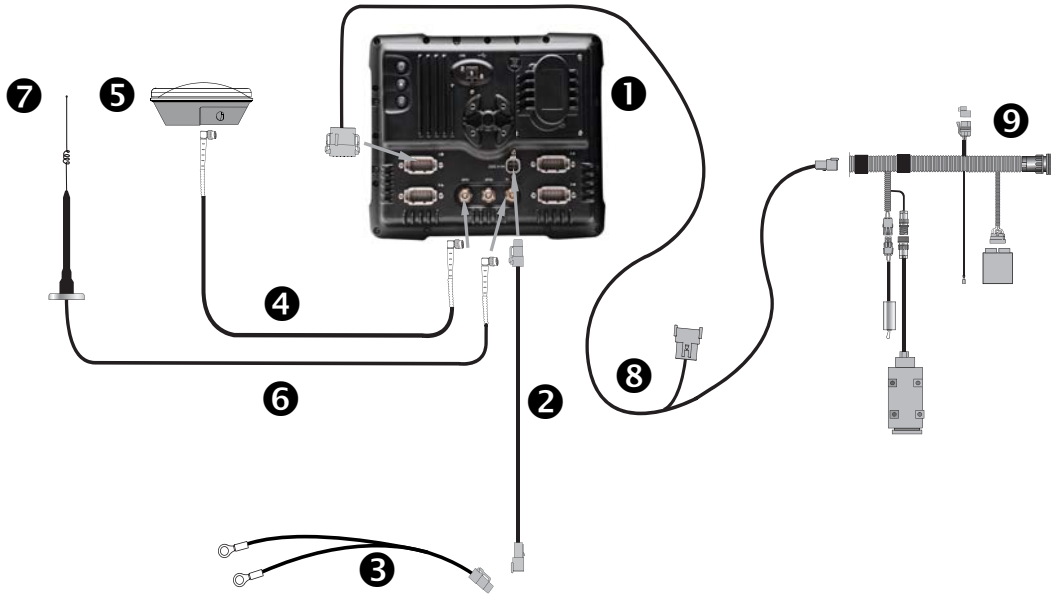
This chapter shows the different ways to connect the FmX integrated display to the Tru Application Control system.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

Manual guidance FmX / Tru Application Control

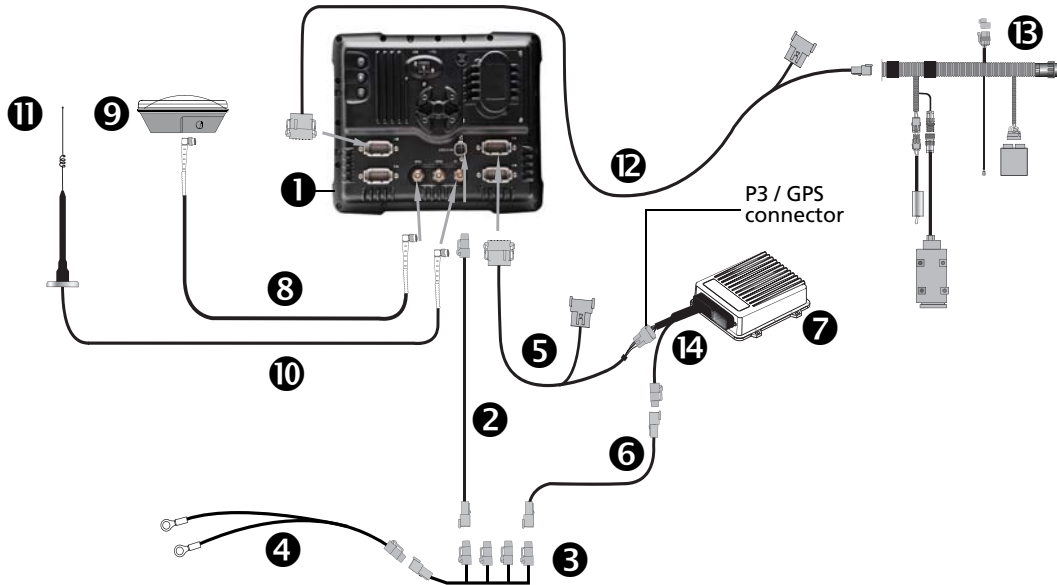
This figure shows how to connect the FmX integrated display with the Tru Application Control system, while using manual guidance:



Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX 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	FmX to CAN cable with port replicator	75407
⑨	Application Control cab harness cable	64909

FmX / Autopilot / Tru Application Control / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system and the Tru Application Control system, to use RTK corrections:



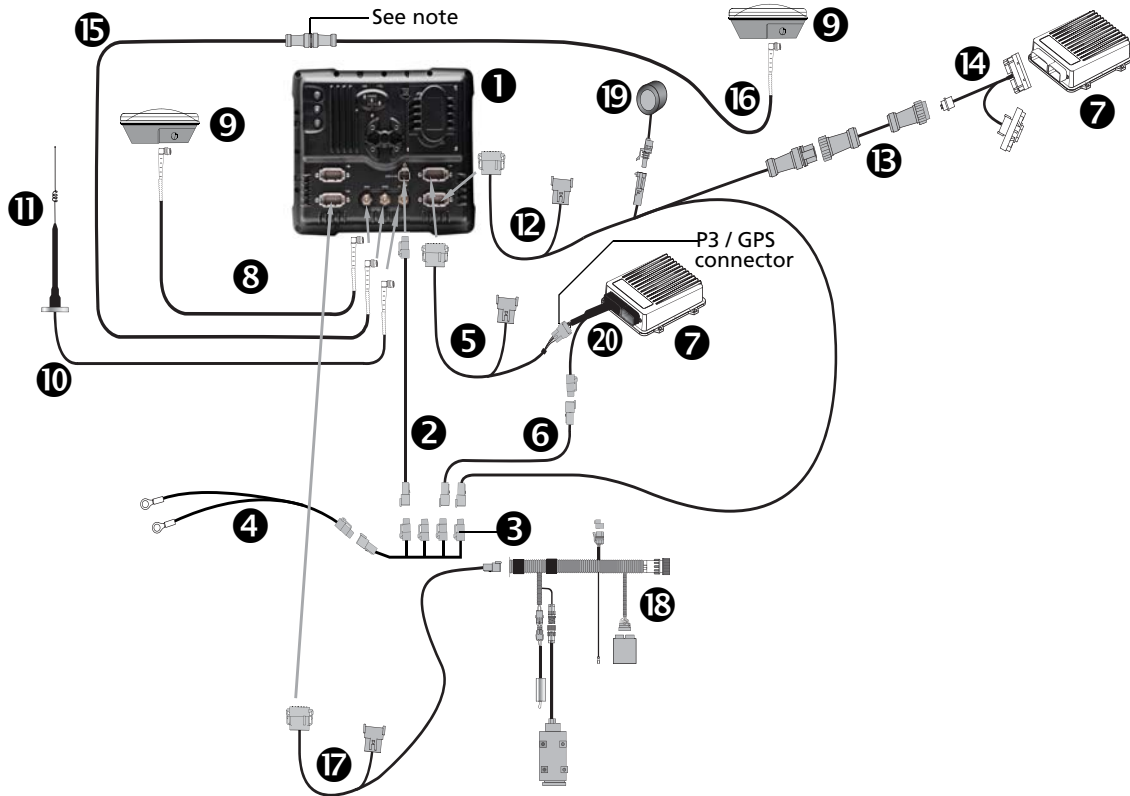
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 14 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	FmX to CAN cable with port replicator	75407

Item	Description	Trimble part number
③	Tru Application Control cab harness cable	64909
⑭	Main NavController II cable	54601

FmX / Autopilot / Tru Application Control / TrueTracker / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, Tru Application Control, and TrueTracker, to use RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 20 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note – An optional LMR400 65' extension cable (P/N 67473) is available for implements with a long tongue.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX to NavController II cable with port replicator	75741
6	2 pin DTM to 2 pin DT power adaptor	67095
7	NavController II (x2)	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	FmX to TrueTracker cable	67092
13	Implement 10-pin data cable	0793-8740-450
14	FmX to NavController II and TrueTracker main harness	67612
15	Coaxial 160" N/f + TNC/m-ra cable	68295
16	Coaxial 480" N/m + TNC/m-ra cable	67472
17	FmX to CAN cable with port replicator	75407
18	Tru Application Control cab harness	64909
19	Sonalert	43104
20	Main NavController II cable	54601

Connecting External Receivers, Radios, and Modems

In this chapter:

- [FmX / Autopilot / AgGPS 252/262](#)
- [FmX / TrueGuide or Implement Monitoring with an AgGPS 252/262 external receiver](#)
- [FmX / Autopilot / External receiver for Implement Monitoring, TrueGuide, or FieldLevel II](#)
- [FmX / Autopilot / Ag3000 VRS corrections](#)
- [FmX / Autopilot / Sierra wireless modem](#)
- [FmX / Autopilot / DCM-300](#)

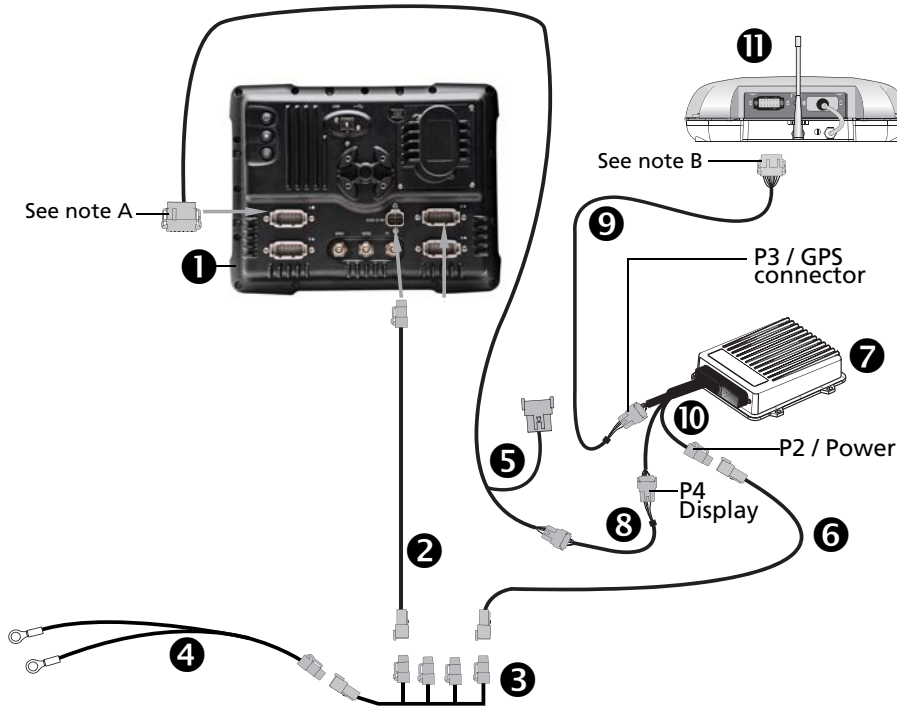
This chapter shows the different ways to connect the FmX integrated display to external receivers.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

FmX / Autopilot / AgGPS 252/262

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, while using an AgGPS 252 or an AgGPS 262 receiver:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note A – Connect to port A or port B.

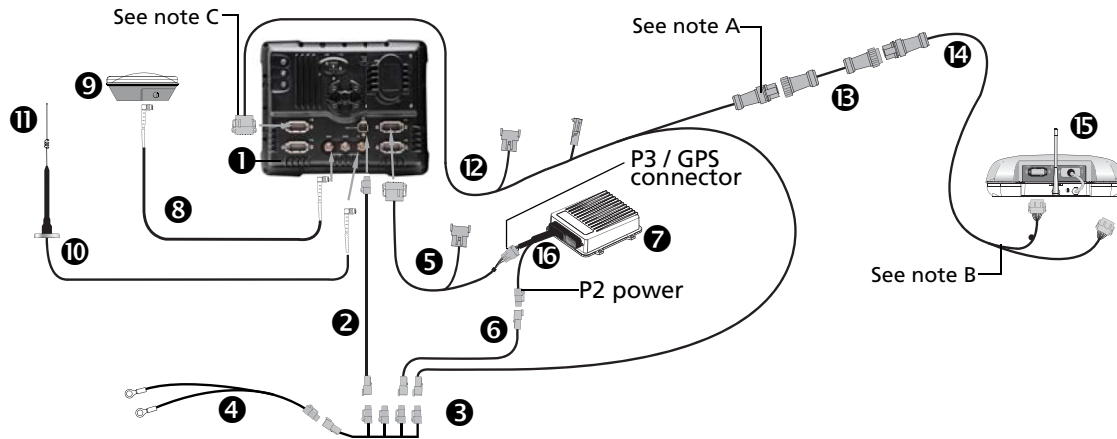
Note B – Connect to port “A” only.

Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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	Cable assembly, 8-pin to 12-pin adaptor	76442
9	Cable, AgGPS 252/252 to NavController II	54608

Item	Description	Trimble part number
⑩	Main NavController II cable	54601
⑪	AgGPS 252/262 receiver	55500-xx

FmX / TrueGuide or Implement Monitoring with an AgGPS 252/262 external receiver

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system and TrueGuide system, while using a second external receiver with RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 16 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note A – An optional 45' 10-pin data extension cable (P/N AG_0793-1290-450) is available for implements with a long tongue.

Note B – Connect to port “A” only.

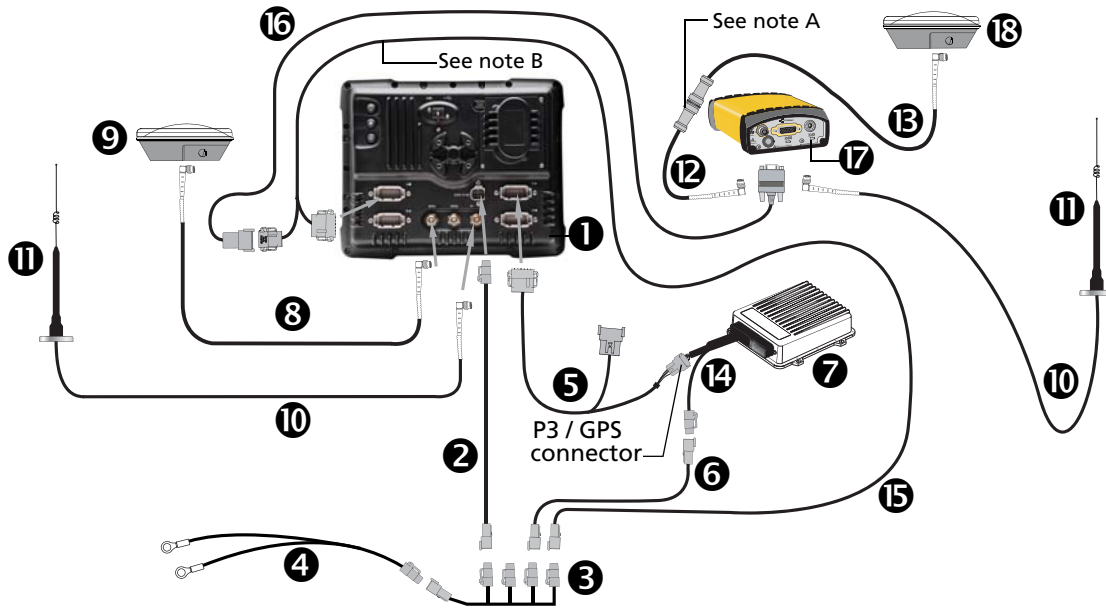
Note C – Connect to port “A” or port “B”.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20 ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10

Item	Description	Trimble part number
12	FmX to TrueTracker cable	67092
13	Implement extension cable	0793-8740-450
14	Cable assembly, implement receiver extension	75447
15	AgGPS 252/262 receiver	55500-xx
16	Main NavController II cable	54601
17	Sonalert	43104

FmX / Autopilot / External receiver for Implement Monitoring, TrueGuide, or FieldLevel II

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, and external receivers (such as an Ag332 or Ag442), for use with implement monitoring, TrueGuide, or Field Level II.



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 14 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note A – An optional LMR400 65' extension cable (P/N 67473) is available for implements with a long tongue.

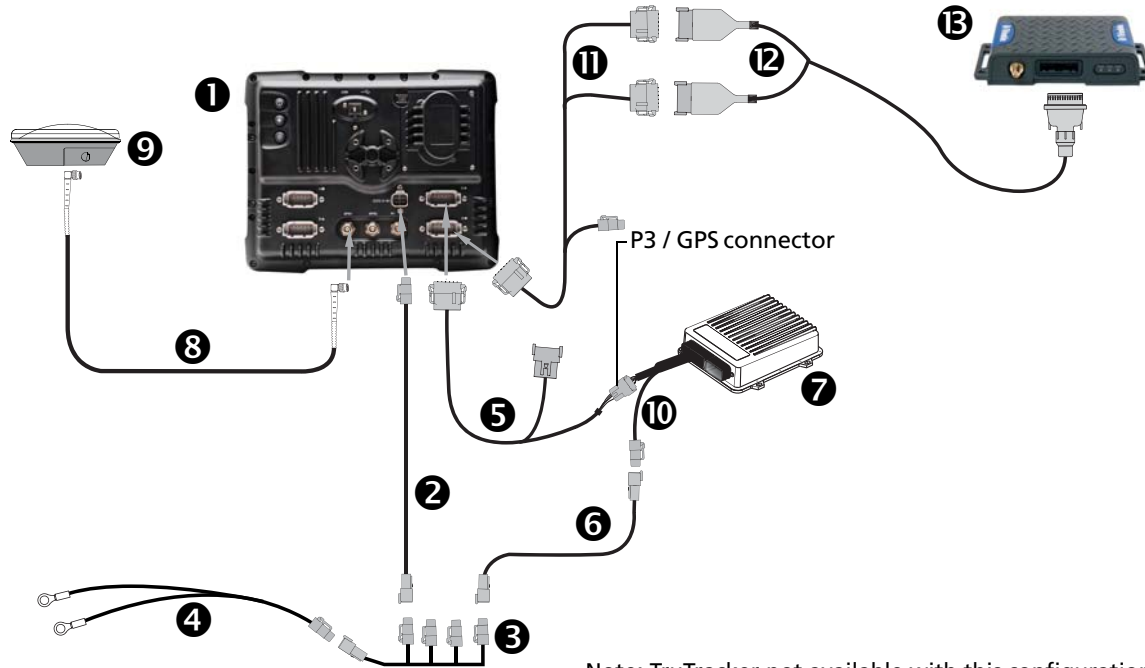
Note B – The receiver adaptor cable 15 must be connected to either port "A" or port "B".

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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 (x2)	50449
9	Ag25 GNSS antenna	77038-00

Item	Description	Trimble part number
⑩	NMO to TNC 20ft antenna cable and base (x2)	62120
⑪	900 MHz radio antenna kit (x2)	22882-10
⑫	Coaxial 160" N/f + TNC/m-ra cable	68295
⑬	Coaxial 480" N/m + TNC/m-ra cable	67472
⑭	Main NavController II cable	54601
⑮	FmX to external receiver adaptor cable	71453
⑯	AgGPS 442 receiver cable	62037
⑰	AgGPS 442 receiver	
⑱	Zephyr model 2 antenna	57970-00

FmX / Autopilot / Ag3000 VRS corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system while using corrections from the Ag3000 modem.



Note: TruTracker not available with this configuration



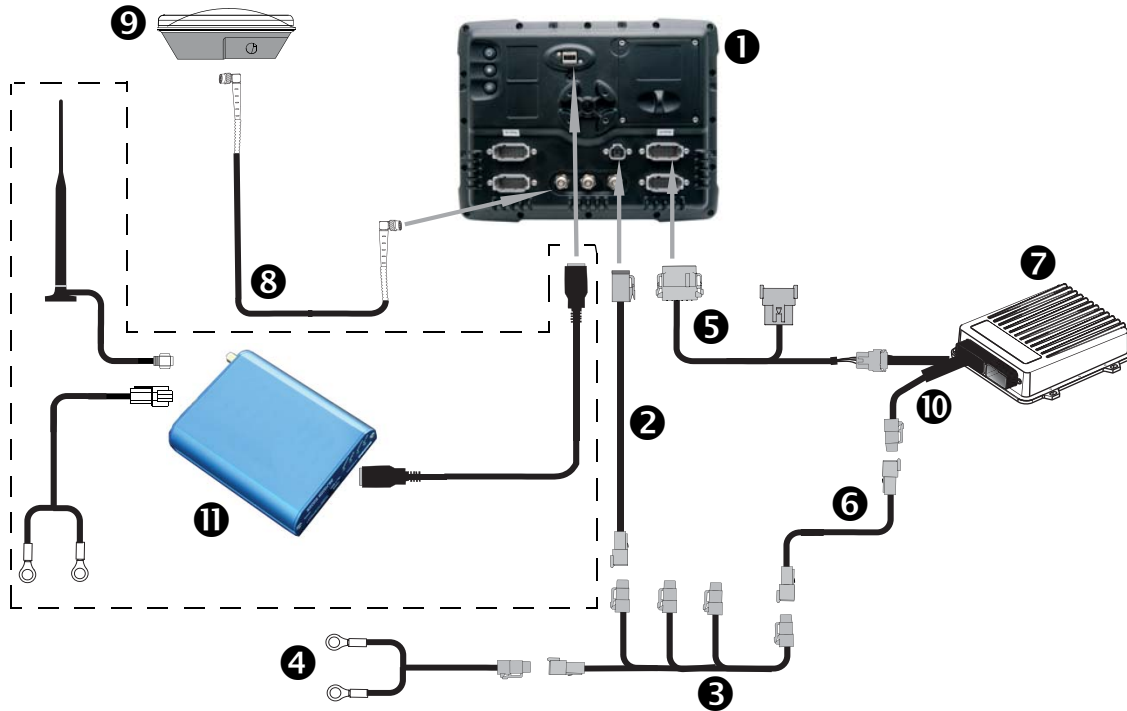
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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 FmX/FM-1000 cable	77273

Item	Description	Trimble part number
②	Ag3000 break-out cable	70433
③	Ag3000 modem	80300

FmX / Autopilot / Sierra wireless modem

Connecting the FmX integrated display with the Autopilot automated steering system and the Sierra wireless modem:



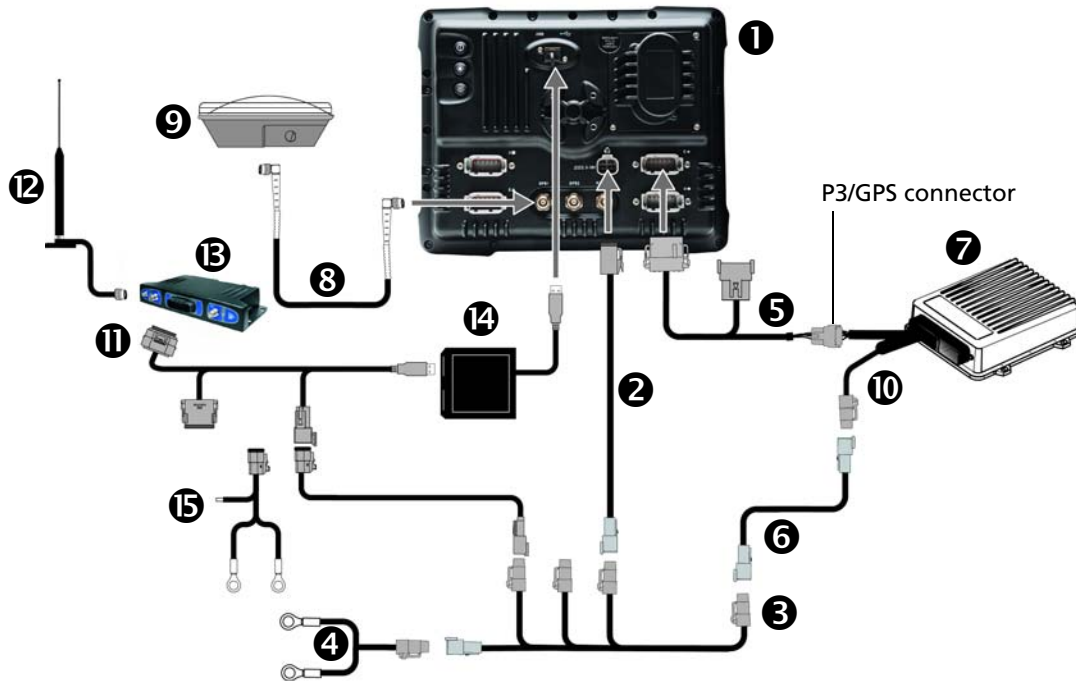
CAUTION – Connecting the Port Replicator on the CFX-750 display to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 10 will result in damage to the CFX-750 display and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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">• Antenna• Mag mount base• USB cable Note – Part number dependant on wireless provider.	71116-xx

FmX / Autopilot / DCM-300

Connecting the FmX integrated 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	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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	82026
②	DCM-300 cellular antenna	72122 + 51227
③	DCM-300 modem	80632-xx
④	USB hub Note – Must be used.	82026
⑤	DCM-300 power harness: Use either the powerbus or direct power leads harness.	82026

Connecting Yield Monitoring

In this chapter:

- FmX / AgLeader YM2000 yield monitor
- FmX / John Deere 9x60 / 9x70 yield monitor

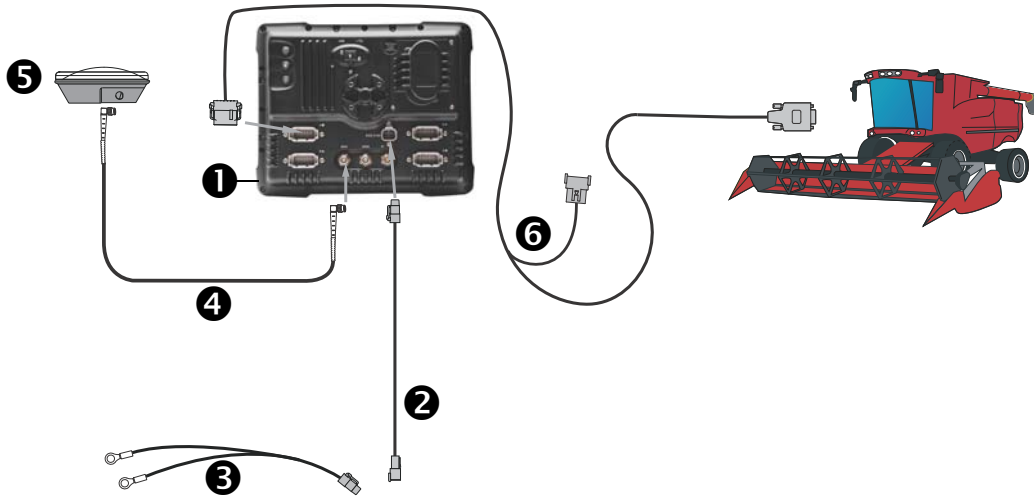
This chapter shows the different ways to connect the FmX integrated display to a yield monitoring system.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

FmX / AgLeader YM2000 yield monitor

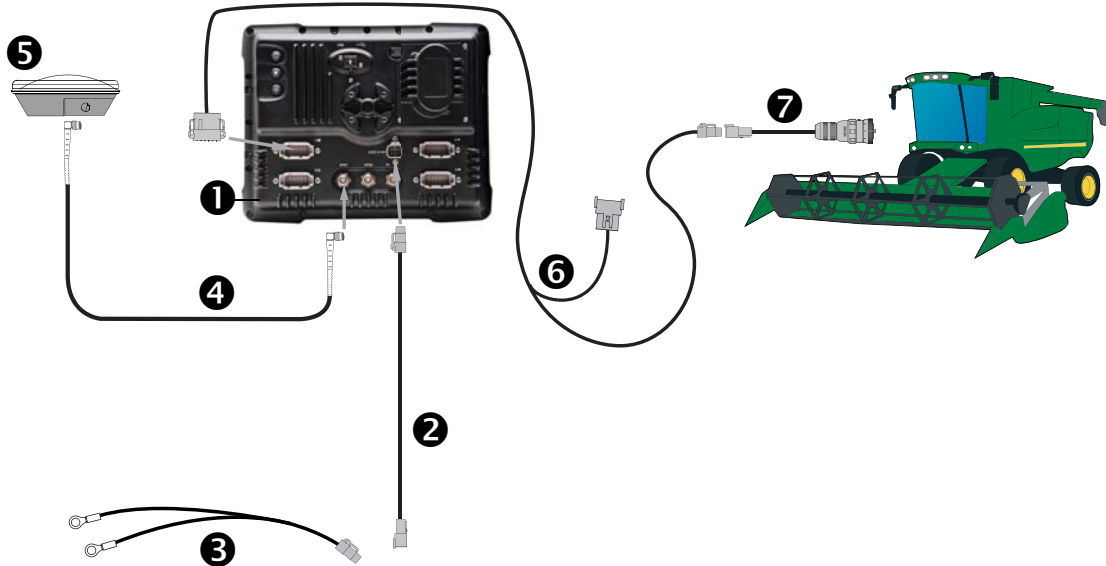
This figure shows how to connect the FmX integrated display to the AgLeader YM 2000 yield monitoring system:



Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	FmX power cable	66694
3	FmX basic power cable	67258
4	8 m GPS TNC/TNC RT angle cable	50449
5	Ag25 GNSS antenna	77038-00
6	Display to DE9 RS232 cable	67091

FmX / John Deere 9x60 / 9x70 yield monitor

This figure shows how to connect the FmX integrated display to the John Deere 9x60 or 9x70 yield monitoring system:



Note – Connect only to port A on the FmX integrated display; when using yield monitoring do not connect another CAN device to the occupied port.

Item	Description	Trimble part number
①	FmX integrated display	93100-01
②	FmX power cable	66694
③	FmX basic power cable	67258
④	8 m GPS TNC/TNC RT angle cable	50449
⑤	Ag25 GNSS antenna	77038-00
⑥	FmX to CAN cable with port replicator	75407
⑦	Display to John Deere 9x70, or 9x60 non-ATR	76509
	Display to John Deere 9x60 ATR	77692

Connecting to a FieldLevel II System

In this chapter:

- FmX / Autopilot / FieldLevel II / AGCO Challenger MT / RTK corrections
- FmX / Autopilot / FieldLevel II / CNH direct connect / RTK corrections
- FmX / Autopilot / FieldLevel II / John Deere direct-connect / RTK corrections
- FmX / Autopilot / FieldLevel II / Proportional valve / RTK corrections
- FmX / Autopilot / FieldLevel II / PT valve / RTK corrections
- FmX / FieldLevel II / Tandem or dual antenna / RTK corrections
- FmX / Autopilot / AgGPS 252/262 / FieldLevel II / Tandem or dual antenna / RTK corrections
- FmX / FieldLevel II / Without power bus

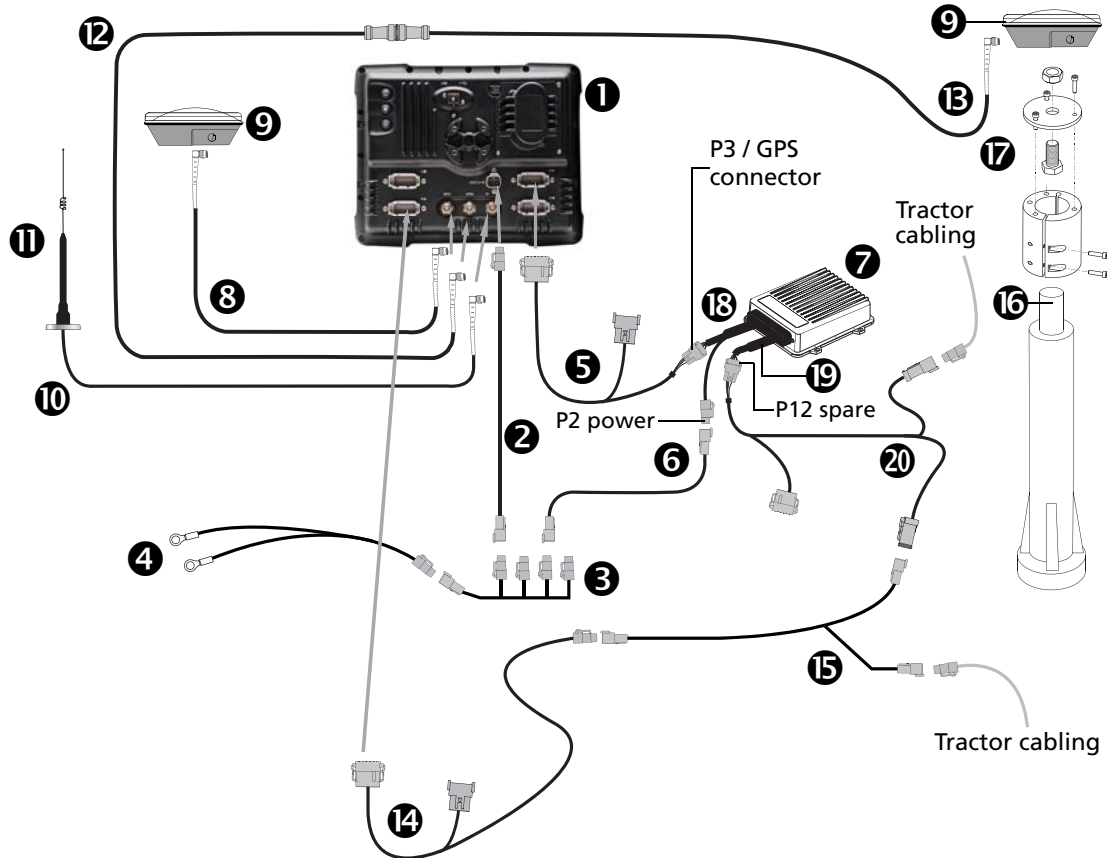
This chapter shows the different ways to connect the FmX integrated display to a FieldLevel II system.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

FmX / Autopilot / FieldLevel II / AGCO Challenger MT / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, and the FieldLevel II system on AGCO Challenger MT tractors:



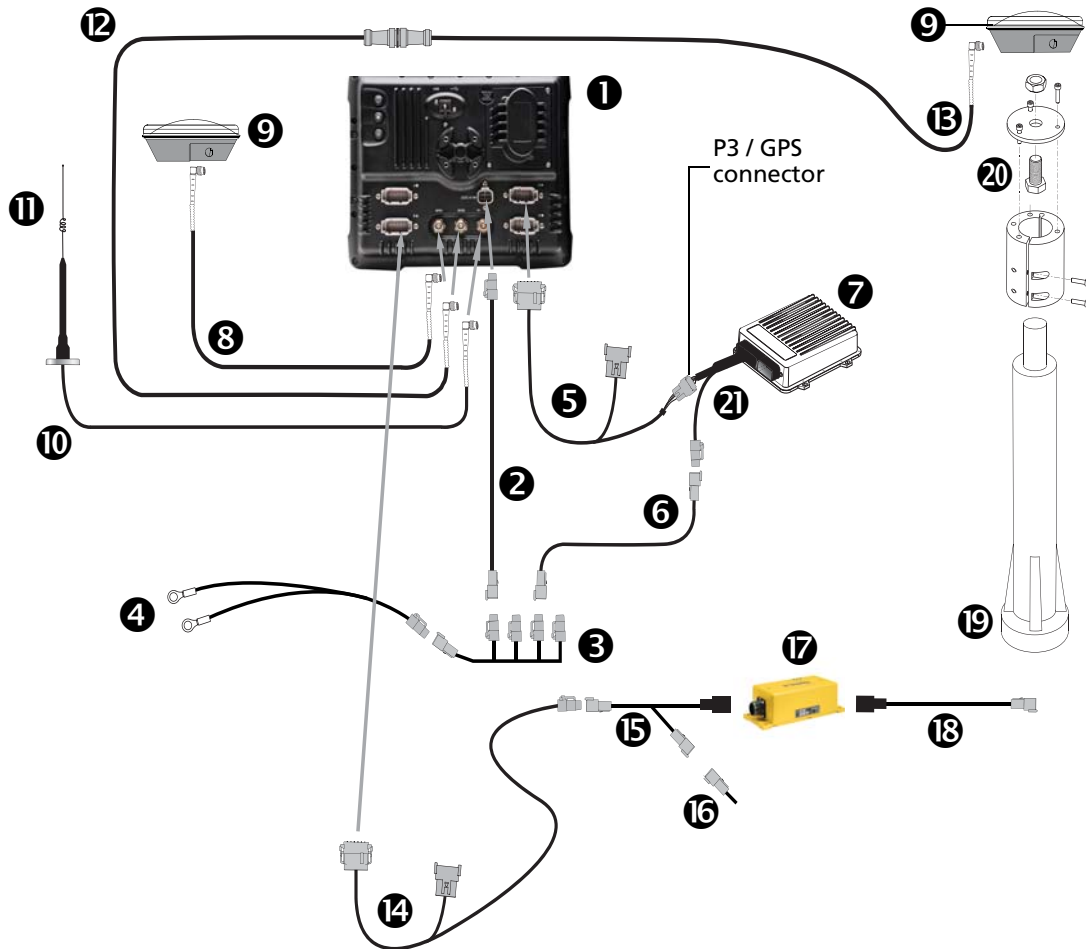
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 13 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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	Coaxial 160" N/f + TNC/m-ra cable	68295
13	Coaxial 480" N/m + TNC/m-ra cable	67472
14	FmX to CAN cable with port replicator	75407
15	Challenger MT CAN interface - FieldLevel II	62108
16	Mast	MM2E-T
17	GPS mount	0367-3440
18	Main NavController II cable	54601
19	Auxiliary NavController II cable	54602
20	Challenger MT CAN interface to Autopilot cable	56850

FmX / Autopilot / FieldLevel II / CNH direct connect / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, and the FieldLevel II system on CNH direct-connect machines:



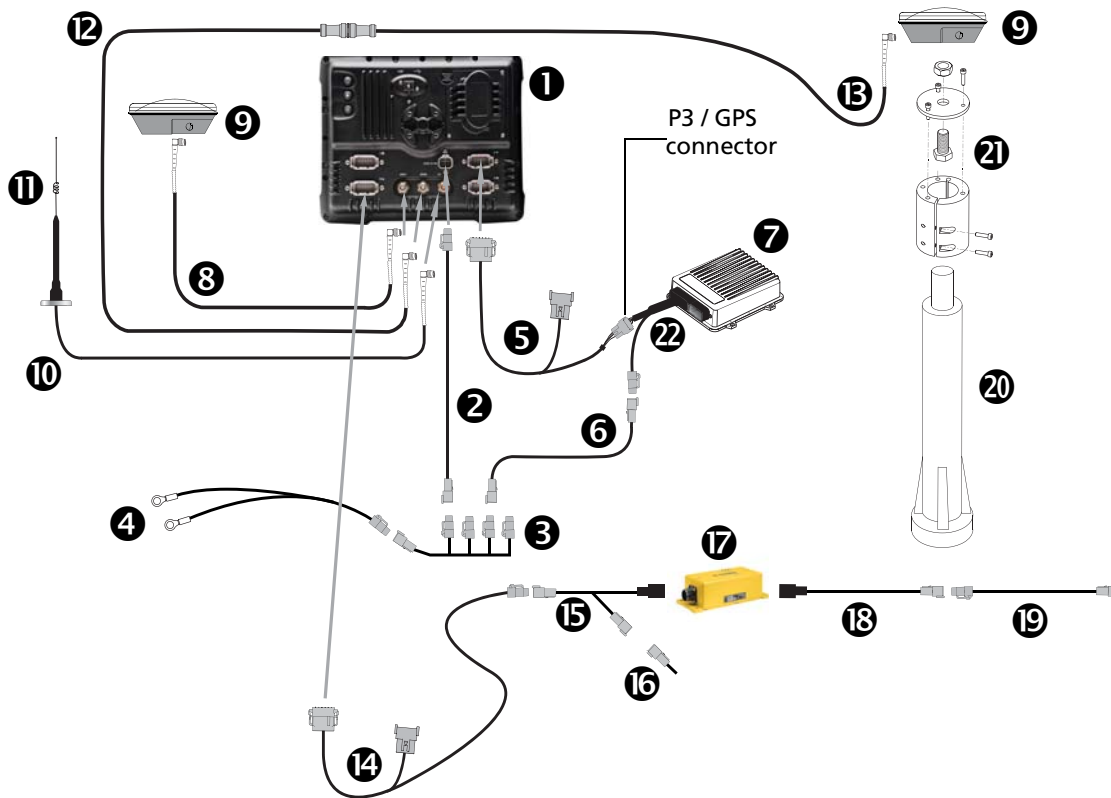
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ② will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	FmX to NavController II cable with port replicator	75741

Item	Description	Trimble part number
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 (x2)	77038-00
⑩	NMO to TNC 20ft antenna cable and base	62120
⑪	900 MHz radio antenna kit	22882-10
⑫	Coaxial 160" N/f + TNC/m-ra cable	68295
⑬	Coaxial 480" N/m + TNC/m-ra cable	67472
⑭	FmX to CAN cable with port replicator	75407
⑮	CAN to VM and FieldLevel II cable	62039
⑯	CAN terminator	59783
⑰	Direct connect valve module, FRU	AG VM415
⑱	VM415 dual case direct cable	54376-100
⑲	Mast	MM2E-T
⑳	GPS mount	0367-3440
㉑	Main NavController II cable	54601

FmX / Autopilot / FieldLevel II / John Deere direct-connect / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, and the FieldLevel II system on John Deere direct-connect machines:



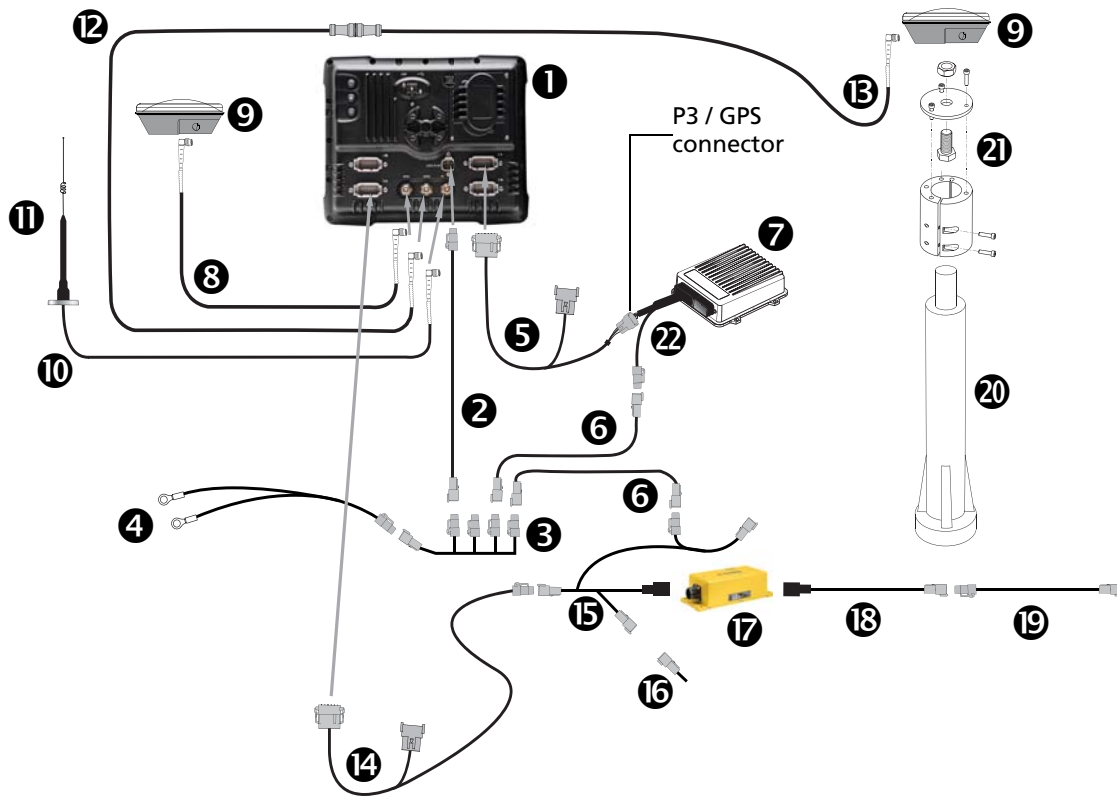
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ② will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	FmX 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

Item	Description	Trimble part number
9	Ag25 GNSS antenna (x2)	77038-00
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	Coaxial 160" N/f + TNC/m-ra cable	68295
13	Coaxial 480" N/m + TNC/m-ra cable	67472
14	FmX to CAN cable with port replicator	75407
15	CAN to VM and FieldLevel II cable	62039
16	CAN terminator	59783
17	Direct connect valve module	AG VM415
18	John Deere VM415 valve cable	AG 57765-070
19	John Deere wiring harness cable	AG 0793-1030-120
20	Mast	MM2E-T
21	GPS mount	0367-3440
22	Main NavController II cable	54601

FmX / Autopilot / FieldLevel II / Proportional valve / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, and the FieldLevel II system on proportional valve machines:



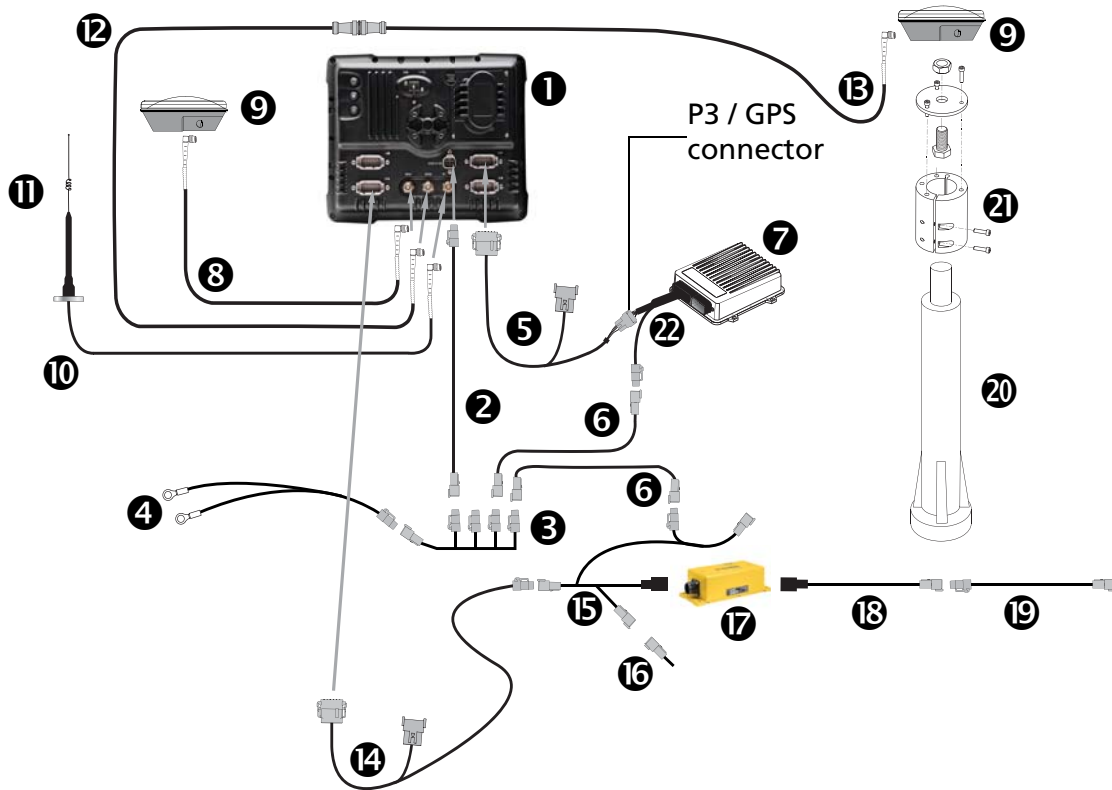
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 2 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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

Item	Description	Trimble part number
9	Ag25 GNSS antenna (x2)	77038-00
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	Coaxial 160" N/f + TNC/m-ra cable	68295
13	Coaxial 480" N/m + TNC/m-ra cable	67472
14	FmX to CAN cable with port replicator	75407
15	FieldLevel II VM410/420 cable	62767
16	CAN terminator	59783
17	GCS400 valve module	AG VM410
18	GCS400 Dual Danfoss valve quick disconnect cable	58742-150
19	GCS300 SGL Danfoss valve quick disconnect cable	58729-200
20	Mast	MM2E-T
21	GPS mount	0367-3440
22	Main NavController II cable	54601

FmX / Autopilot / FieldLevel II / PT valve / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, and the FieldLevel II system on PT valve machines:



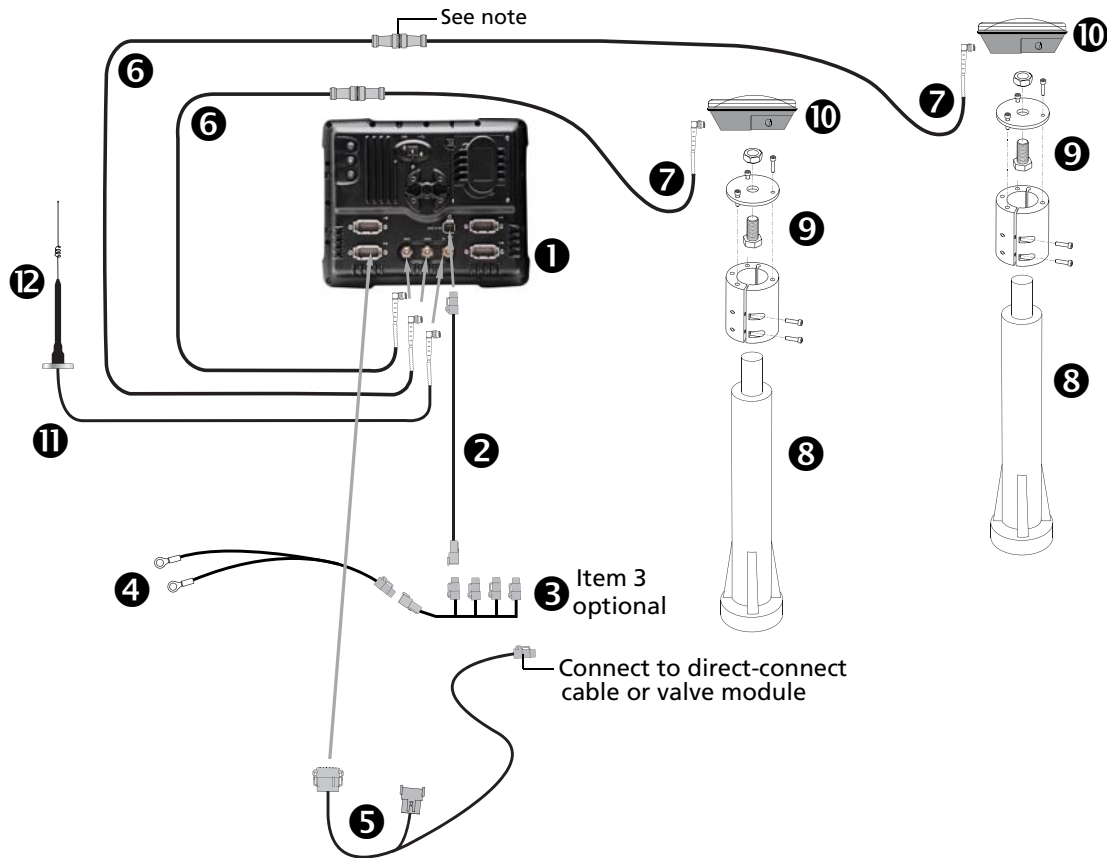
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ② will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	FmX 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 (x2)	77038-00
⑩	NMO to TNC 20ft antenna cable and base	62120

Item	Description	Trimble part number
①	900 MHz radio antenna kit	22882-10
②	Coaxial 160" N/f + TNC/m-ra cable	68295
③	Coaxial 480" N/m + TNC/m-ra cable	67472
④	FmX to CAN cable with port replicator	75407
⑤	FieldLevel II VM410/420 cable	62767
⑥	CAN terminator	59783
⑦	PWM valve module	AG VM420
⑧	GCS400 Dual PT valve quick disconnect cable	58932-150
⑨	GCS300 SGL PT valve quick disconnect cable	58947-200
⑩	Mast	MM2E-T
⑪	GPS mount	0367-3440
⑫	Main NavController II cable	54601

FmX / FieldLevel II / Tandem or dual antenna / RTK corrections

This figure shows how to connect the FmX integrated display with tandem or dual antenna:



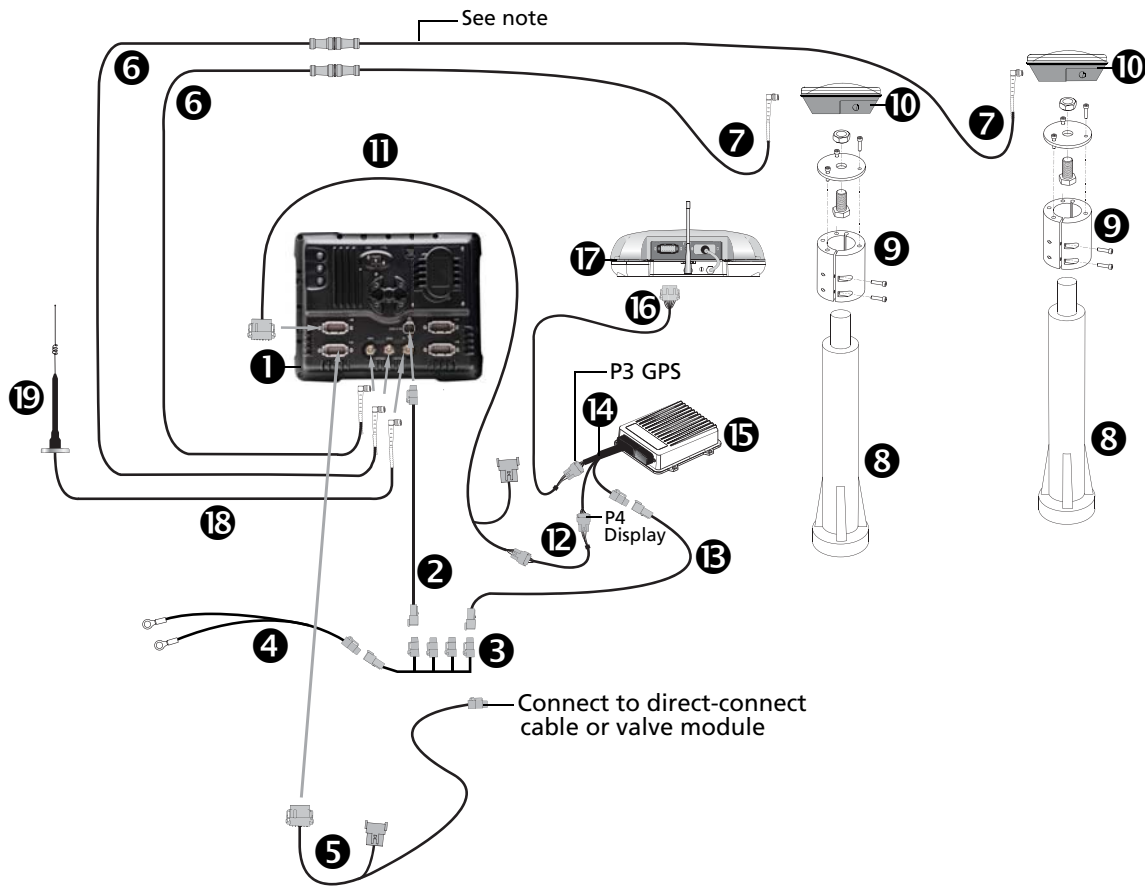
Note – An optional LMR400 65' extension cable (P/N 67473) is available for tandem buckets.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus) - optional	67259
4	Basic power cable	67258
5	FmX to CAN cable with port replicator	75407
6	Coaxial 160" N/f + TNC/m-ra cable (x2)	68295
7	Coaxial 480" N/m + TNC/m-ra cable	67472
8	Mast (x2)	MM2E-T
9	GPS mount (x2)	0367-3440
10	Ag25 GNSS antenna (x2)	77038-00

Item	Description	Trimble part number
①	NMO to TNC 20ft antenna cable and base	62120
②	900 MHz radio antenna kit	22882-10

FmX / Autopilot / AgGPS 252/262 / FieldLevel II / Tandem or dual antenna / RTK corrections

This figure shows how to connect the FmX integrated display to the Autopilot system, an AgGPS 252/262 external receiver, with tandem or dual antenna:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ① to the P4 or P12 connector of the NavController II harness ⑭ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

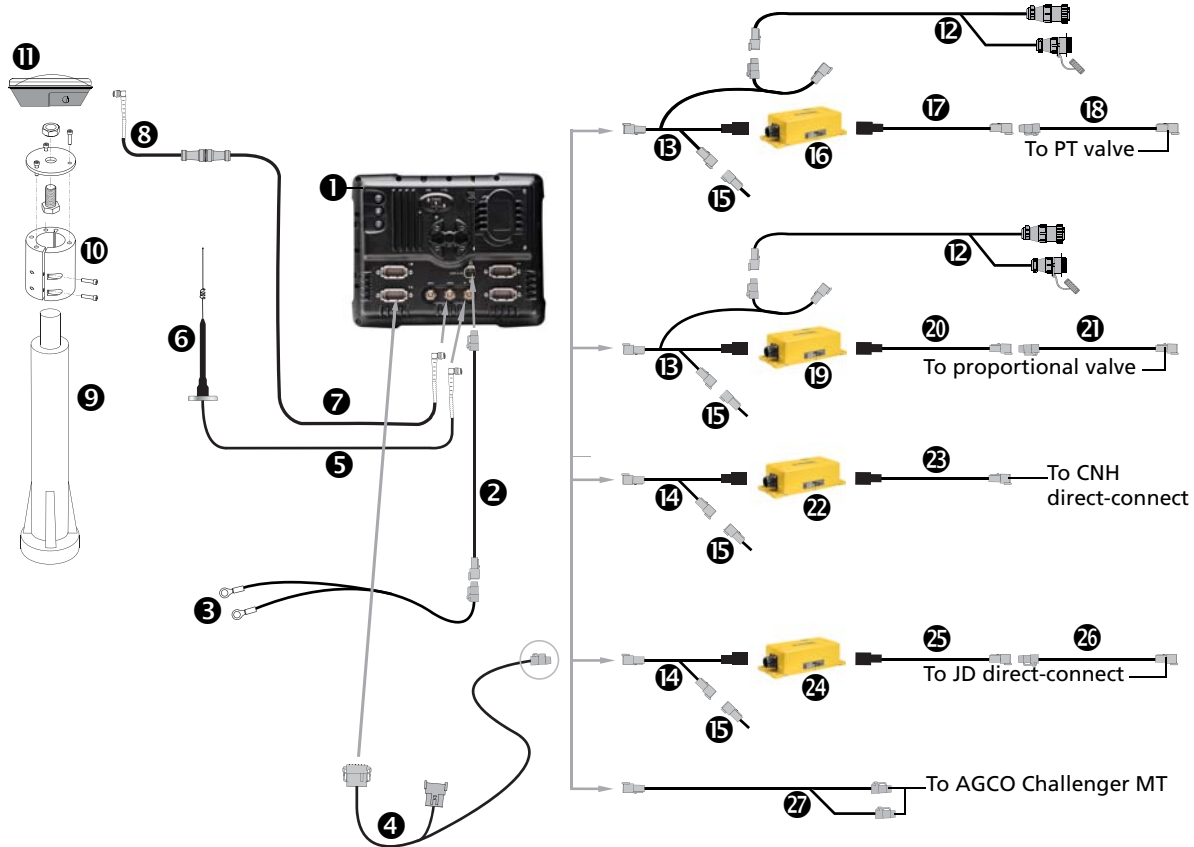
Note – An optional LMR400 65' extension cable (P/N 67473) is available for tandem buckets.

Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus) - optional	67259
④	Basic power cable	67258
⑤	FmX to CAN cable with port replicator	75407

Item	Description	Trimble part number
⑥	Coaxial 160" N/f + TNC/m-ra cable (x2)	68295
⑦	Coaxial 480" N/m + TNC/m-ra cable	67472
⑧	Mast (x2)	MM2E-T
⑨	GPS mount (x2)	0367-3440
⑩	Ag25 GNSS antenna (x2)	77038-00
⑪	FmX to NavController II cable with port replicator	75741
⑫	Cable assembly, 8-pin to 12-pin adaptor	76442
⑬	2 pin DTM to 2 pin DT power adaptor	67095
⑭	Main NavController II cable	54601
⑮	NavController II	55563-00
⑯	Cable, AgGPS 252/252 to NavController II	54608
⑰	AgGPS 252/262 receiver	55500-xx
⑱	NMO to TNC 20ft antenna cable and base	62120
⑲	900 MHz radio antenna kit	22882-10

FmX / FieldLevel II / Without power bus

This figure shows how to connect the FmX integrated display with the FieldLevel II system without utilizing the power bus; several vehicle options are shown:



Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	Basic power cable	67258
4	FmX to CAN cable with port replicator	75407
5	20' NMO to TNC antenna cable and base	62120
6	900 MHz radio antenna kit	22882-10
7	Coaxial 160" N/f + TNC/m-ra cable	68295
8	Coaxial 480" N/m + TNC/m-ra cable	67472
9	Mast	MM2E-T
10	GPS mount	0367-3440
11	Ag25 GNSS antenna	77038-00
12	Power cable	54630

Item	Description	Trimble part number
13	FieldLevel II VM410 / 420 cable	62767
14	FieldLevel II CAN to VM cable	62039
15	CAN terminator	59783
16	PWM valve module	AG VM420
17	GCS400 Dual PT valve quick disconnect cable	58932-150
18	GCS300 SGL PT valve quick disconnect cable	58947-200
19	GCS400 valve module	AG VM410
20	GCS400 Dual Danfoss valve quick disconnect cable	58742-150
21	GCS300 SGL Danfoss valve quick disconnect cable	58729-200
22	FRU direct connect valve module	AG VM415
23	VM415 dual case direct cable	54376-100
24	FRU direct connect valve module	AG VM415
25	John Deere VM415 valve cable	AG 57765-070
26	John Deere wiring harness cable	AG 0793-1030-120
27	Challenger MT CAN interface to Autopilot system cable	62108

Installing Accessories

In this chapter:

- FmX / 4 AgCam cameras / Autopilot / RTK corrections
- FmX / Autopilot / EZ-Boom / Display-mounted LB25 external lightbar (option 1)
- FmX / Autopilot / EZ-Boom / Remote-mounted LB25 external lightbar (option 2)
- FmX / Autopilot / EZ-Boom / multiple LB25 external lightbars / RTK corrections
- FmX / EZ-Remote joystick

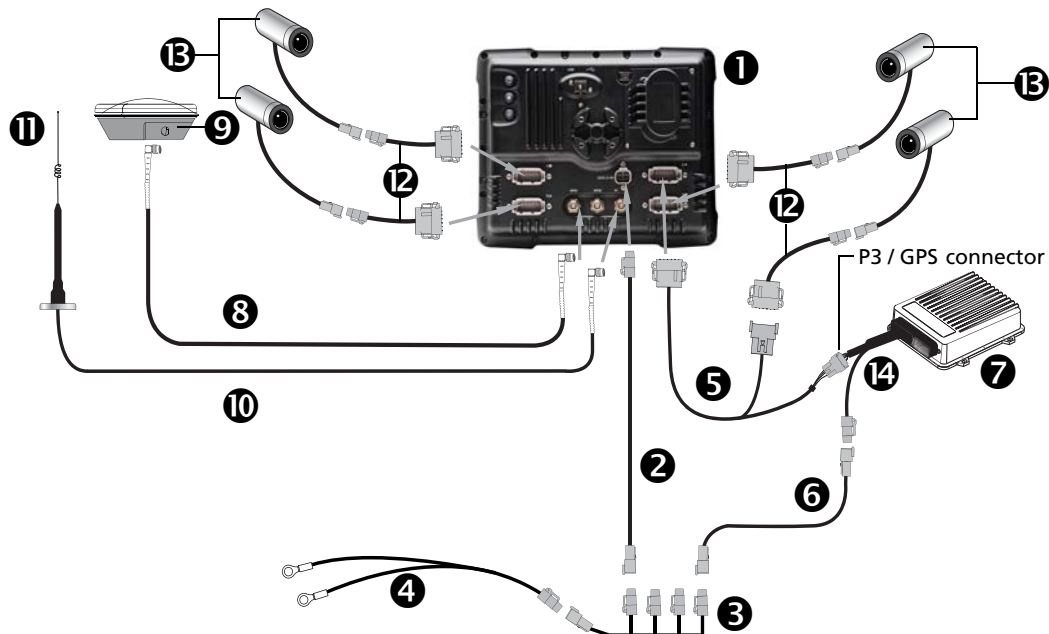
This chapter shows the different accessories, including lightbars and cameras, that can be added to the FmX integrated display.



CAUTION – Connecting the Port Replicator on the FmX display to the NavController II cable to the P4 or P12 connector of the NavController II harness will result in damage to the FmX / FM-1000 integrated display, and will void the warranty.

FmX / 4 AgCam cameras / Autopilot / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system and 4 AgCam cameras, while using RTK corrections:



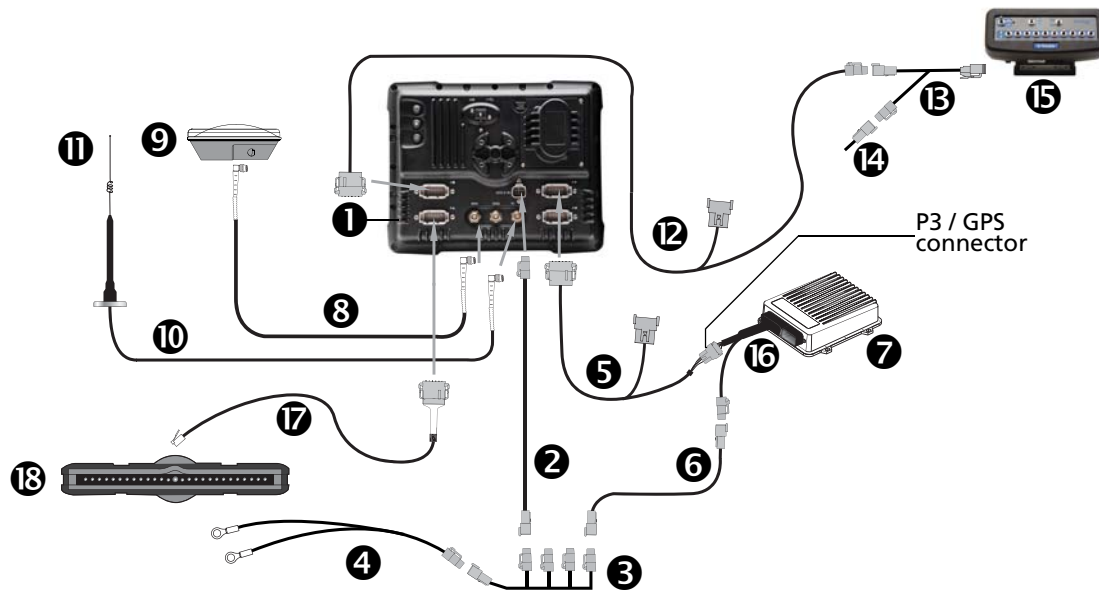
CAUTION – Connecting the Port Replicator on the FmX to NavController II cable **5** to the P4 or P12 connector of the NavController II harness **14** will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20ft antenna cable and base	62120
11	900 MHz radio antenna kit	22882-10
12	FmX to AgCam cable	77401

Item	Description	Trimble part number
⑬	FmX AgCam stainless steel camera kit (up to 4 units) FmX AgCam aluminium camera kit (up to 4 units)	77400-10 77400-20
⑭	Main NavController II cable	54601

FmX / Autopilot / EZ-Boom / Display-mounted LB25 external lightbar (option 1)

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, the EZ-Boom automated application control system, and the display-mounted LB25 external lightbar with RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ⑬ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note – When using the LB25 external lightbar, no other CAN device may be used on the port.

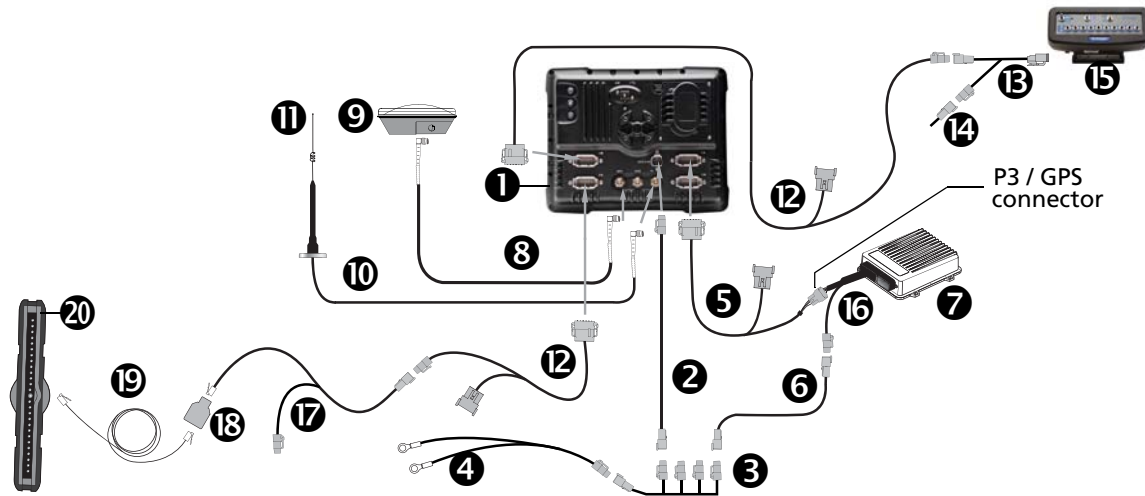
Note – When using the LB25 external lightbar and cable P/N 72420, use only port B with internal termination.

Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	FmX 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

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	FmX to CAN cable with port replicator	75407
⑬	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
⑭	CAN terminator	59783
⑮	EZ-Boom controller	59898-00
⑯	Main NavController II cable	54601
⑰	FmX to LB25, 12-pin to RJ-pin	72420
⑱	LB25 external lightbar	82400-xx

FmX / Autopilot / EZ-Boom / Remote-mounted LB25 external lightbar (option 2)

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, the EZ-Boom automated application control system, and the remotely-mounted LB25 external lightbar while using RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable ⑤ to the P4 or P12 connector of the NavController II harness ⑯ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note – When using the LB25 external lightbar, no other CAN device may be used on the port.

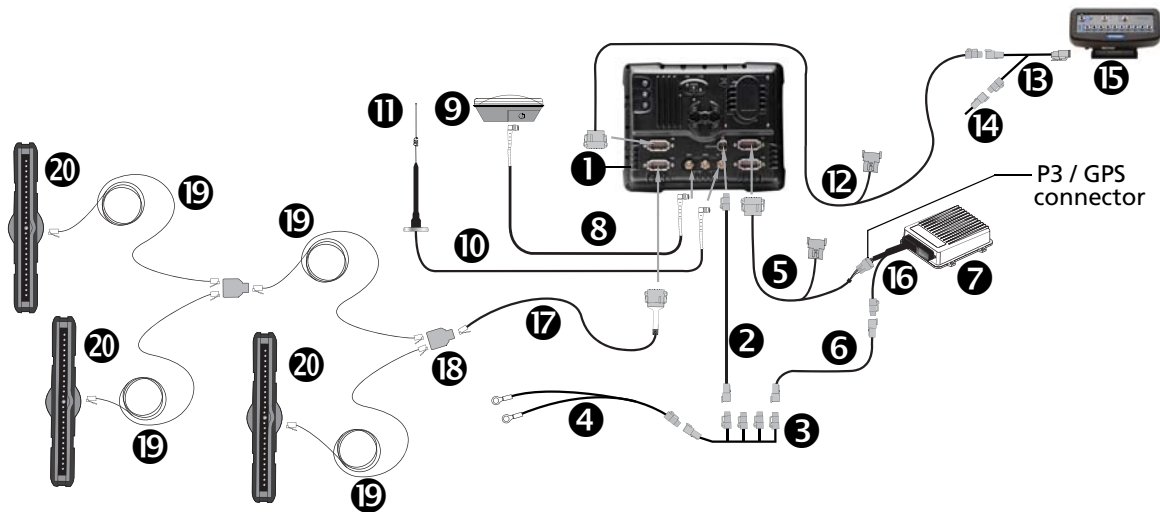
Note – When using the LB25 external lightbar and cable P/N 67094, use only port B with internal termination.

Item	Description	Trimble part number
①	FmX integrated display	93100-02
②	FmX power cable	66694
③	FmX power cable with relay and switch (power bus)	67259
④	Basic power cable	67258
⑤	FmX 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

Item	Description	Trimble part number
⑩	NMO to TNC 20ft antenna cable and base	62120
⑪	900 MHz radio antenna kit	22882-10
⑫	FmX to CAN cable with port replicator	75407
⑬	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
⑭	CAN terminator	59783
⑮	EZ-Boom controller	59898-00
⑯	Main NavController II cable	54601
⑰	FmX to LB25 remote lightbar cable	67094
⑱	Splitter cable, RJII F to 2x RJII F	72422
⑲	7' extension cable (optional)	69781
⑳	LB25 external lightbar	82400-xx

FmX / Autopilot / EZ-Boom / multiple LB25 external lightbars / RTK corrections

This figure shows how to connect the FmX integrated display with the Autopilot automated steering system, the EZ-Boom automated application control system, and multiple LB25 external lightbar, while using RTK corrections:



CAUTION – Connecting the Port Replicator on the FmX to NavController II cable 5 to the P4 or P12 connector of the NavController II harness 16 will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note – When using the LB25 external lightbars, no other CAN device may be used on the port.

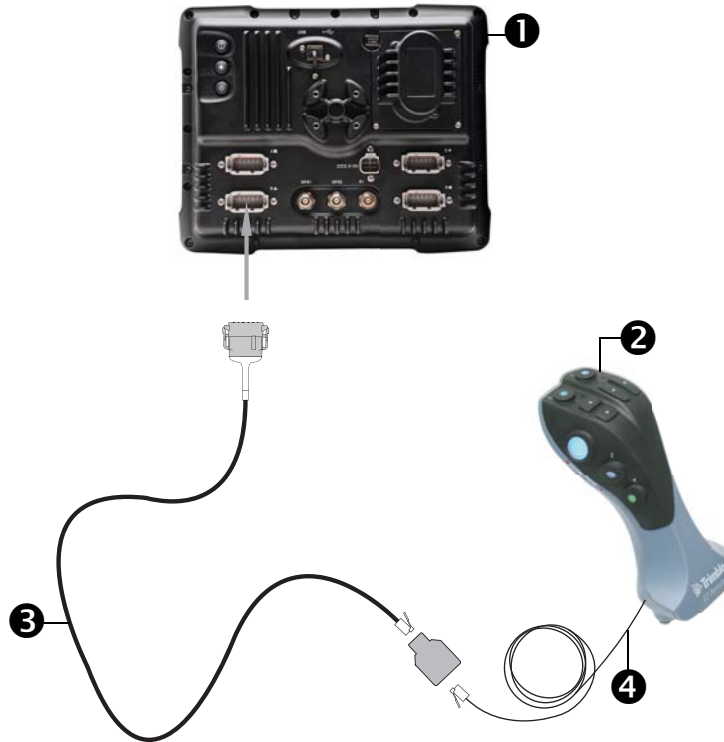
Note – When using the LB25 external lightbar and cable P/N 72420, use only port B with internal termination.

Item	Description	Trimble part number
1	FmX integrated display	93100-02
2	FmX power cable	66694
3	FmX power cable with relay and switch (power bus)	67259
4	Basic power cable	67258
5	FmX 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
10	NMO to TNC 20ft antenna cable and base	62120

Item	Description	Trimble part number
①	900 MHz radio antenna kit	22882-10
②	FmX to CAN cable with port replicator	75407
③	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
④	CAN terminator	59783
⑤	EZ-Boom controller	59898-00
⑥	Main NavController II cable	54601
⑦	FmX to LB25 cable, 12-pin to RJ-pin	72420
⑧	Splitter, RJII F to 2x RJII F	72422
⑨	7' extension cables	69781
⑩	LB25 external lightbars	82400-xx

FmX / EZ-Remote joystick

Connecting the FmX integrated display to the EZ-Remote joystick:



Item	Description	Trimble part number
1	FmX integrated display	93100-01
2	EZ-Remote joystick	83200-00
3	FmX to CAN cable	72420
4	Splitter, RJ11 F to 2x RJ11 F	72422

