CABLING GUIDE

FM-1000™ Integrated Display

Version 6.50
Revision B
June 2013
Part Number 71504-00-ENG

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.

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This is the June 2013 release (Revision B) of the *FM-1000 Integrated Display Cabling Guide*. It applies to version 6.50 of the FM-1000 integrated display firmware.

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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

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

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Declaration of Conformity

We, Trimble Navigation Limited,

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United States
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declare under sole responsibility that the product:
FM-1000 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,

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CHAPTER 1

Cable Configuration Guidelines

In this chapter:

- Multiple cables on single ports
- Cable/port compatibility table
- Superseded cables

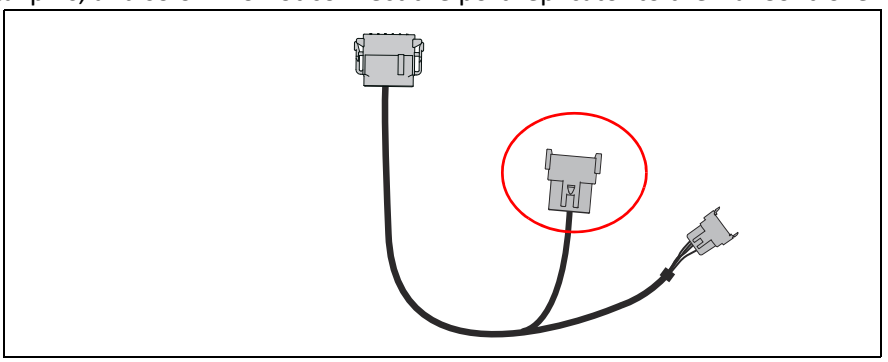
This chapter includes guidelines on cabling options for the FM-1000™ integrated display.

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 FM-1000 integrated display cable can be used in each CAN port.

Function	Communication type	Dedicated CAN port required?	Port A ❶	Port B ❷	Port C ❸	Port D ❹
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	✓	✓			
Yield 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 FM-1000 integrated display release are as follows:

Original part number	Cable	Replacement part number
65522	FM-1000 to NavController II cable with port replicator	75741
67087	FM-1000 to CAN cable with port replicator	75407

CHAPTER 2

Connecting the Display Only

In this chapter:

- Standalone FM-1000 / WAAS / EGNOS / OmniSTAR XP/HP corrections
- Standalone FM-1000 / RTK corrections

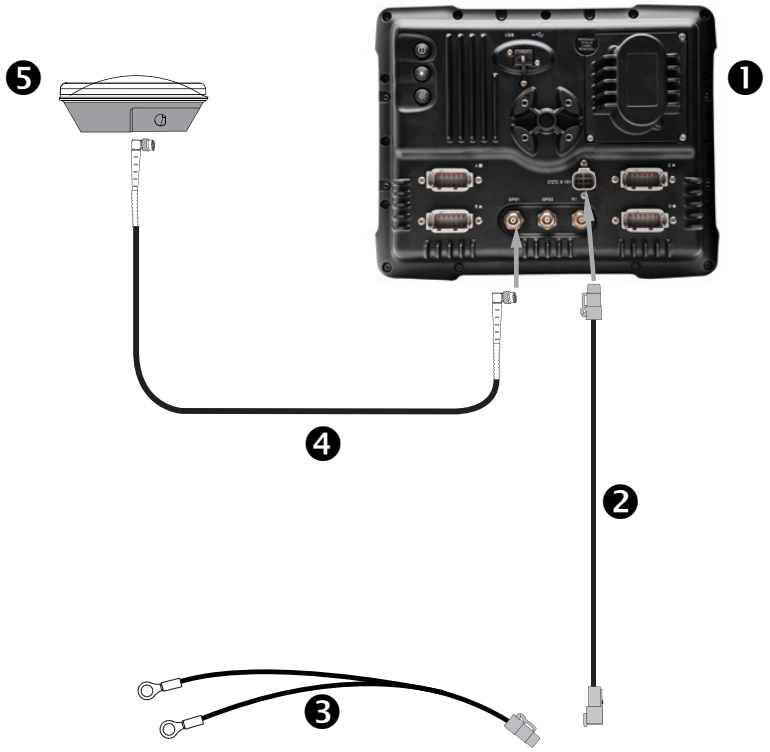
The FM-1000 integrated display can operate as a standalone guidance system, or you can connect it to a range of agricultural guidance devices to expand its functionality. This document shows you how to complete those cable connections.

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 6.
- to the GreenSeeker system, see Chapter 7.
- to the EZ-Boom 2010 automated application control system, see Chapter 8.
- for radar output or serial control, see Chapter 9.
- to the Tru Application Control system, see Chapter 10.
- to external receivers (including the Ag3000, see Chapter 11.
- to yield monitoring systems, see Chapter 12.
- to the FieldLevel II system, see Chapter 14.
- to additional accessories, see Chapter 16.

Standalone FM-1000 / WAAS / EGNOS / OmniSTAR XP/HP corrections

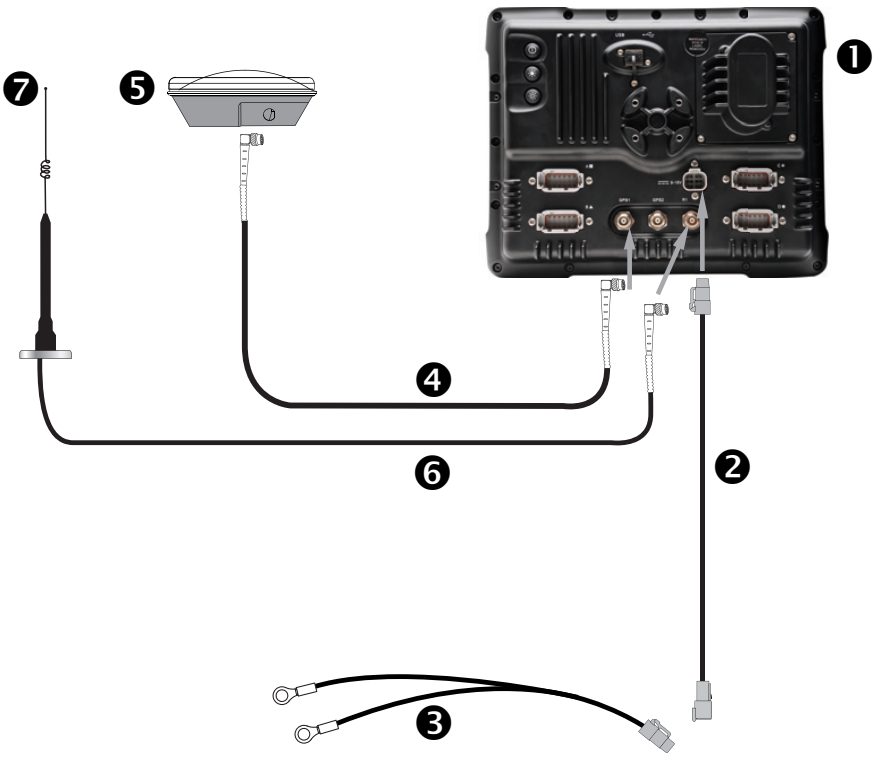
This figure shows how to connect the FM-1000 integrated display to use XP/HP corrections:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00

Standalone FM-1000 / RTK corrections

This figure shows how to connect a standalone FM-1000 integrated display to use RTK corrections:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	NMO to TNC 20 ft antenna cable and base	62120
❼	900 MHz radio antenna kit	22882-10

CHAPTER 3

Connecting to the EZ-Steer System

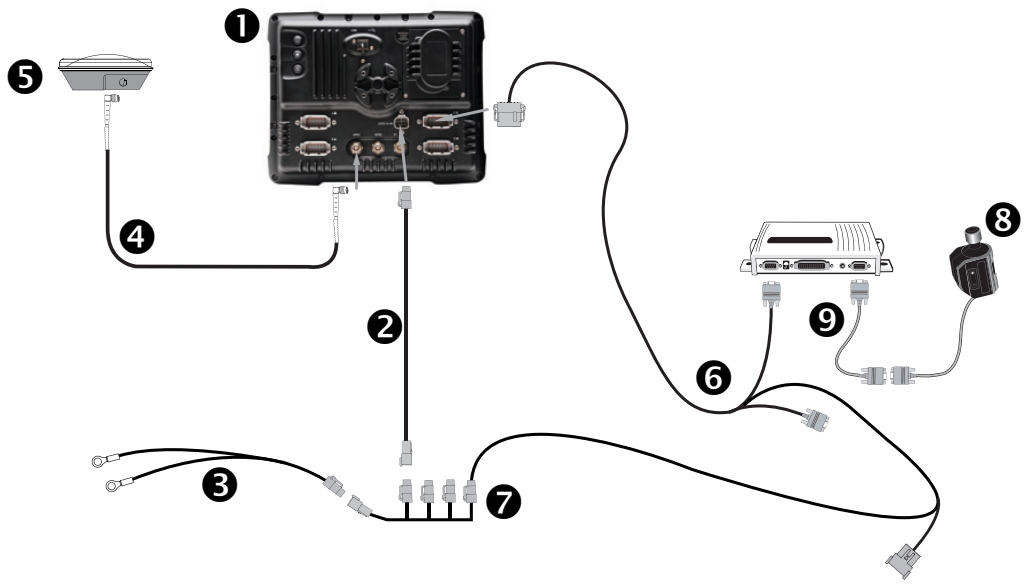
In this chapter:

- FM-1000 / EZ-Steer / WAAS / EGNOS corrections using the power bus
- FM-1000 / EZ-Steer / WAAS / EGNOS corrections with external power leads

This chapter describes how to connect the FM-1000 integrated display to the EZ-Steer® assisted steering system.

FM-1000 / EZ-Steer / WAAS / EGNOS corrections using the power bus

This figure shows how to connect the FM-1000 integrated display with the EZ-Steer assisted steering system, to use WAAS or EGNOS corrections:



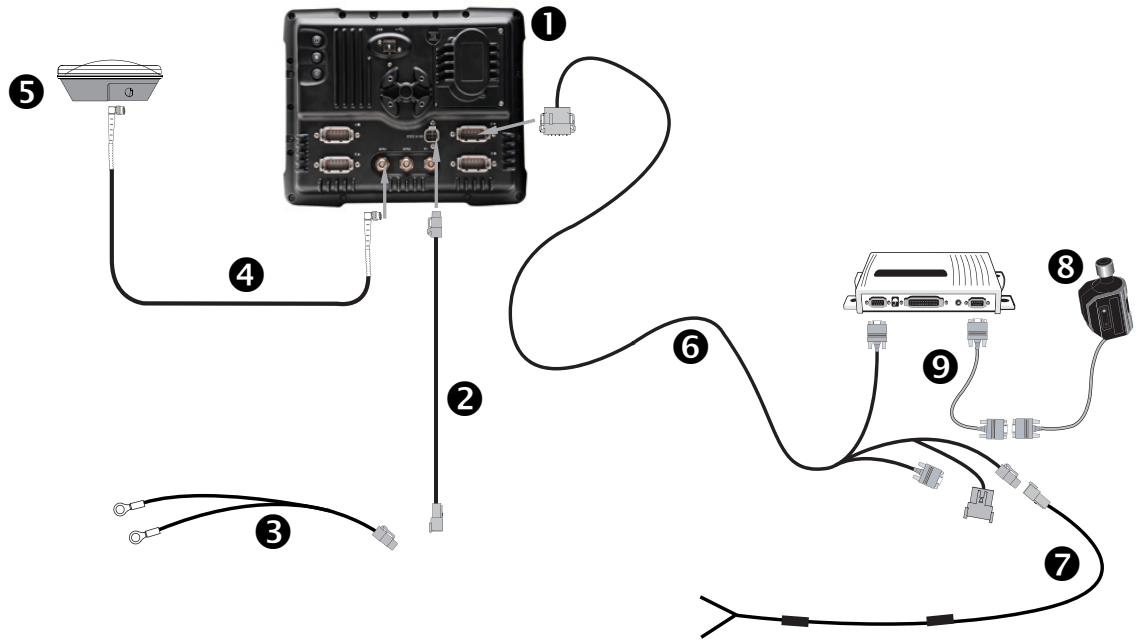
Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	FM-1000 to EZ-Steer cable	75742
❼	FM-1000 power cable with relay and switch (power bus)	67259
❽	EZ-Steer motor	53058-00
❾	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 repin the cable, see the support bulletin FM-1000 - Modifying EZ-Steer Cable P/N 62974 For Use With FM-1000.*

FM-1000 / EZ-Steer / WAAS / EGNOS corrections with external power leads

This figure shows an alternative method for connecting the FM-1000 integrated display with the EZ-Steer assisted steering system, to use WAAS or EGNOS corrections:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	FM-1000 to EZ-Steer cable	75742
❼	Unterminated power cable	75743
❽	EZ-Steer motor	53058-00
❾	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 repin the cable, see the support bulletin FM-1000 - Modifying EZ-Steer Cable P/N 62974 For Use With FM-1000*

CHAPTER 4

Connecting to the Autopilot System

In this chapter:

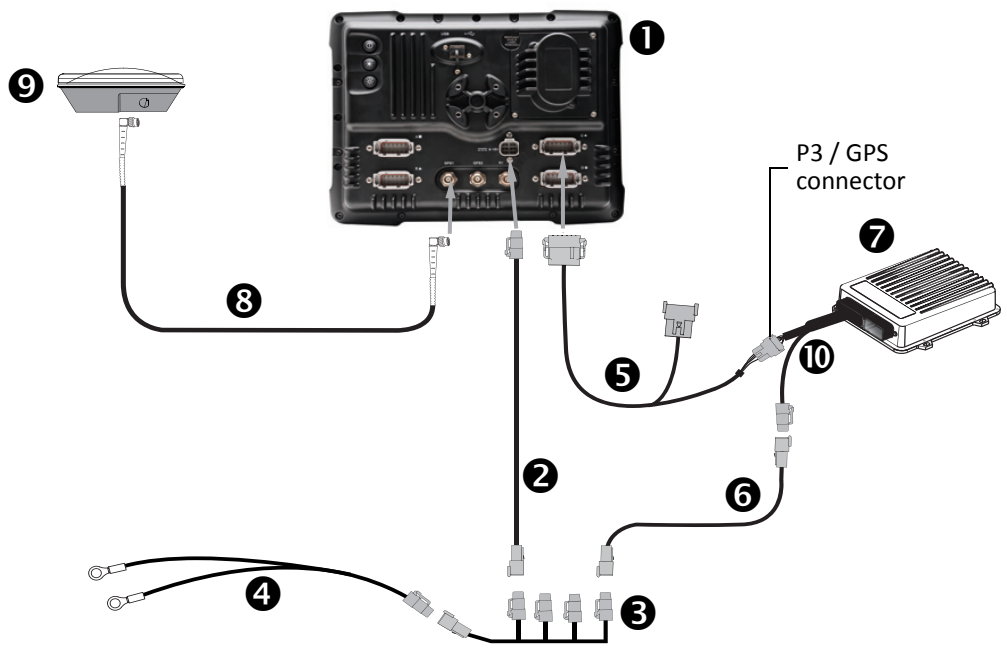
- FM-1000 / Autopilot / WAAS/EGNOS corrections
- FM-1000 / Autopilot / OmniSTAR XP/HP corrections
- FM-1000 / Autopilot / RTK corrections
- FM-1000 with external switch / Autopilot / RTK corrections
- FM-1000 with ignition sensing / Autopilot / RTK corrections
- FM-1000 / Autopilot / TrueGuide or Implement Monitoring
- FM-1000 / Autopilot / TrueGuide or Implement Monitoring with an AgGPS 252/262 external receiver
- FM-1000 / Autopilot / TrueTracker / RTK corrections
- FM-1000 / Autopilot / AgGPS 252/262
- FM-1000 / Factory-ready CNH vehicle
- FM-1000 / Autopilot / Factory-ready CNH vehicle / external receiver
- FM-1000 / Autopilot / AGCO Wheeled Tractors

This chapter shows the different ways to connect the FM-1000 integrated display to the Autopilot™ automated steering system.

⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 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.

FM-1000 / Autopilot / WAAS/EGNOS corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system to use the internal receiver:

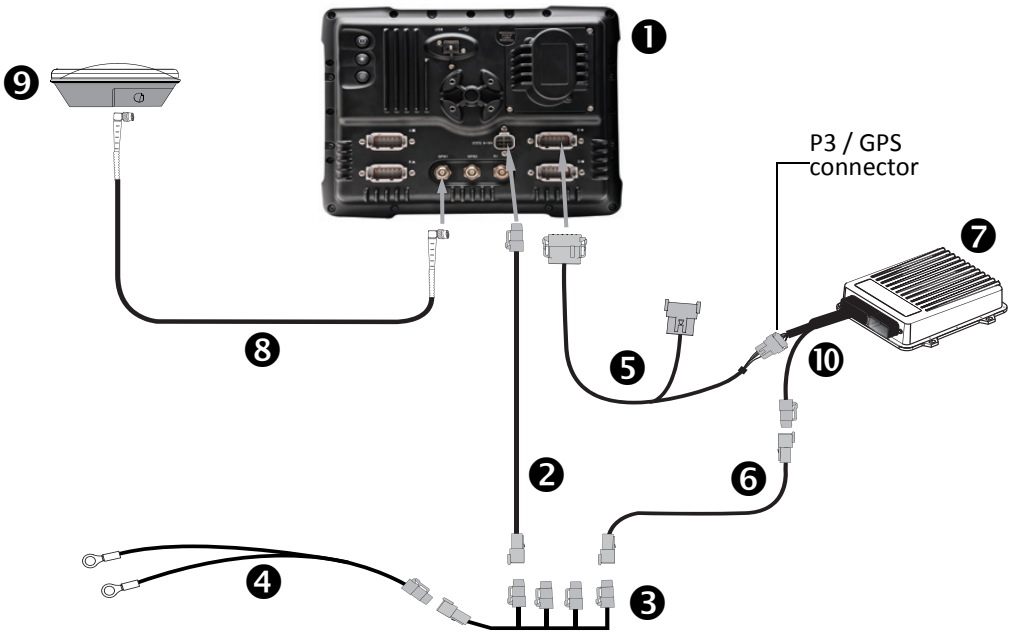


CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ❿ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	Main NavController II cable	54601

FM-1000 / Autopilot / OmniSTAR XP/HP corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, to use OmniSTAR XP/HP corrections:

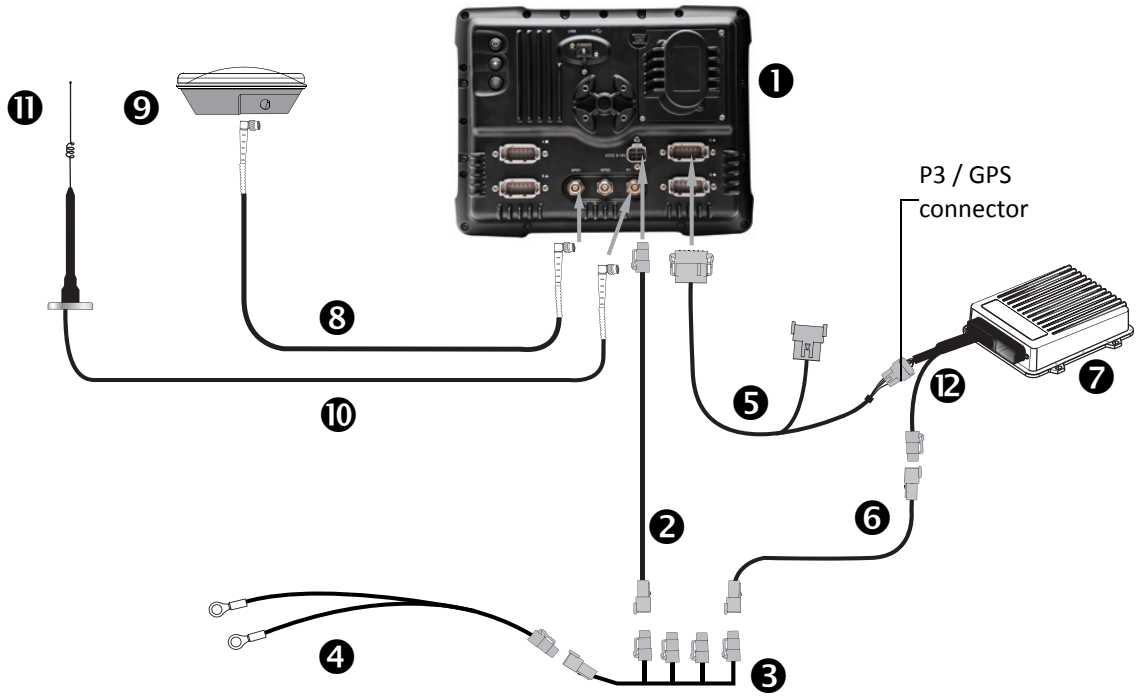


CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ❿ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	Main NavController II cable	54601

FM-1000 / Autopilot / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system to use RTK corrections:

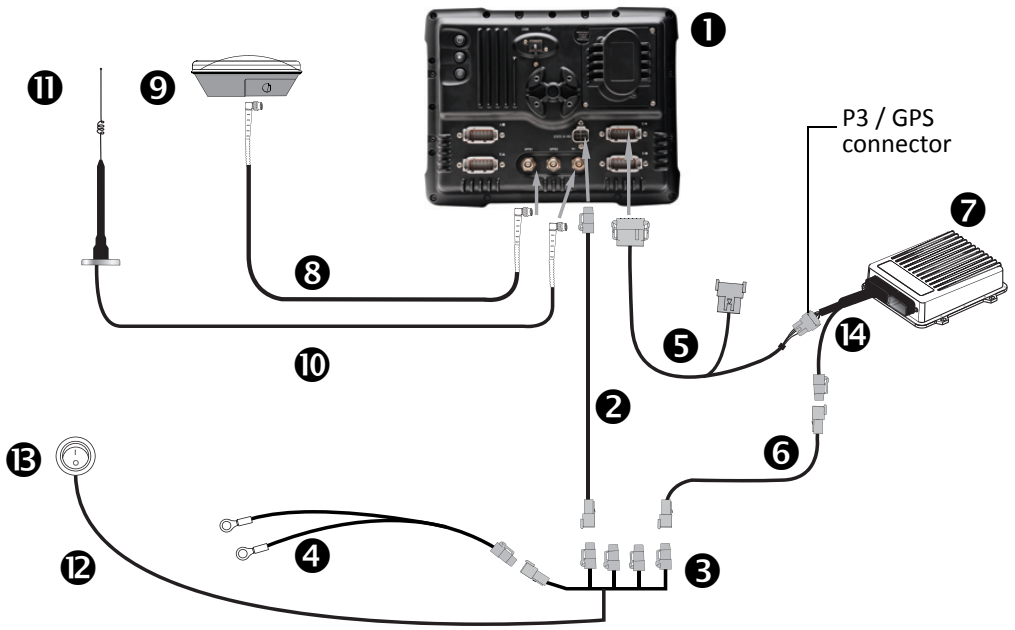


⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓬ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20 ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	Main NavController II cable	54601

FM-1000 with external switch / Autopilot / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system (controlled by an external switch) to use RTK corrections:

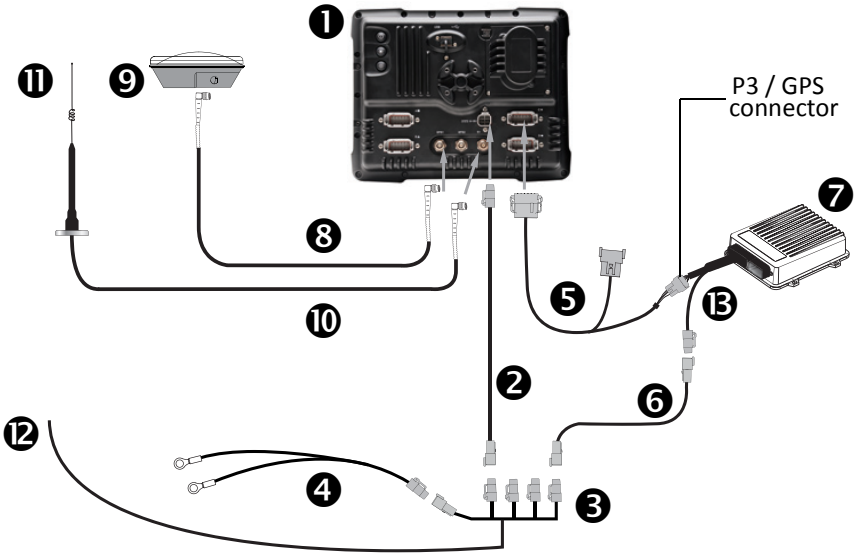


CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓮ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20 ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	External switch cable included with kit	Part of P/N 67259
⓭	External switch included with kit	Part of P/N 67259
⓮	Main NavController II cable	54601

FM-1000 with ignition sensing / Autopilot / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system (with ignition sensing) to use RTK corrections:

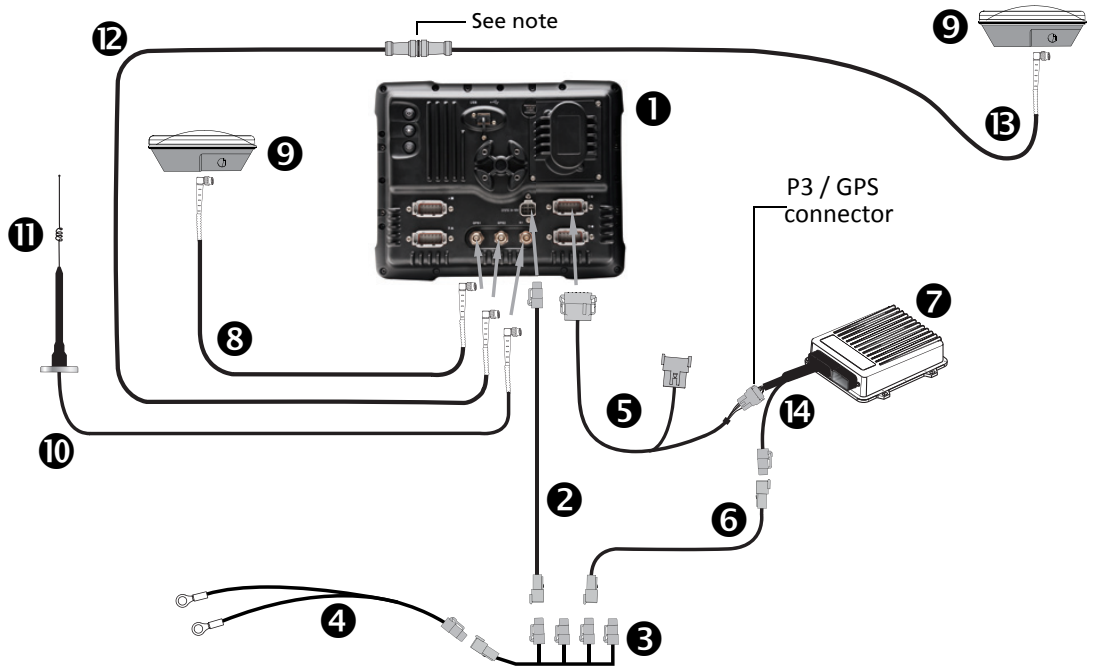


CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓭ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	Ignition sense cable included with kit	Part of P/N 67259
⓭	Main NavController II cable	54601

FM-1000 / Autopilot / TrueGuide or Implement Monitoring

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, Trimble® TrueGuide™ implement guidance system, or implement monitoring to use RTK corrections:



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

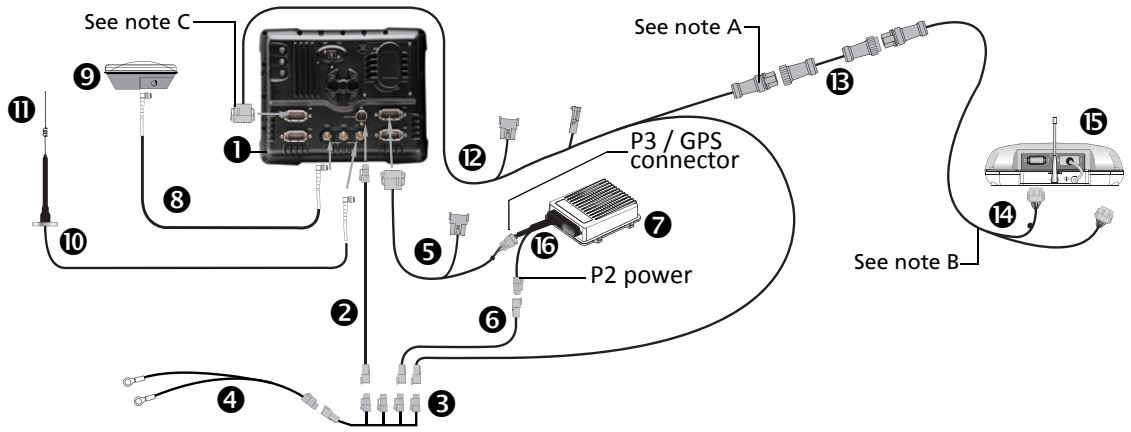
Note – *An optional LMR400 65' extension cable (P/N 67473) is available for implements with a long tongue.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20 ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10

Item	Description	Trimble part number
⓬	Coaxial 160" N/f + TNC/m-ra cable	68295
⓭	Coaxial 480" N/m + TNC/m-ra cable	67472
⓮	Main NavController II cable	54601

FM-1000 / Autopilot / TrueGuide or Implement Monitoring with an *Ag*GPS 252/262 external receiver

This figure shows how to connect the FM-1000 integrated display with the Autopilot system and the TrueGuide implement guidance system or implement monitoring, while using a second external *Ag*GPS receiver:



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

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

Note – *Connect to port "A" of the 252/262 receiver only.*

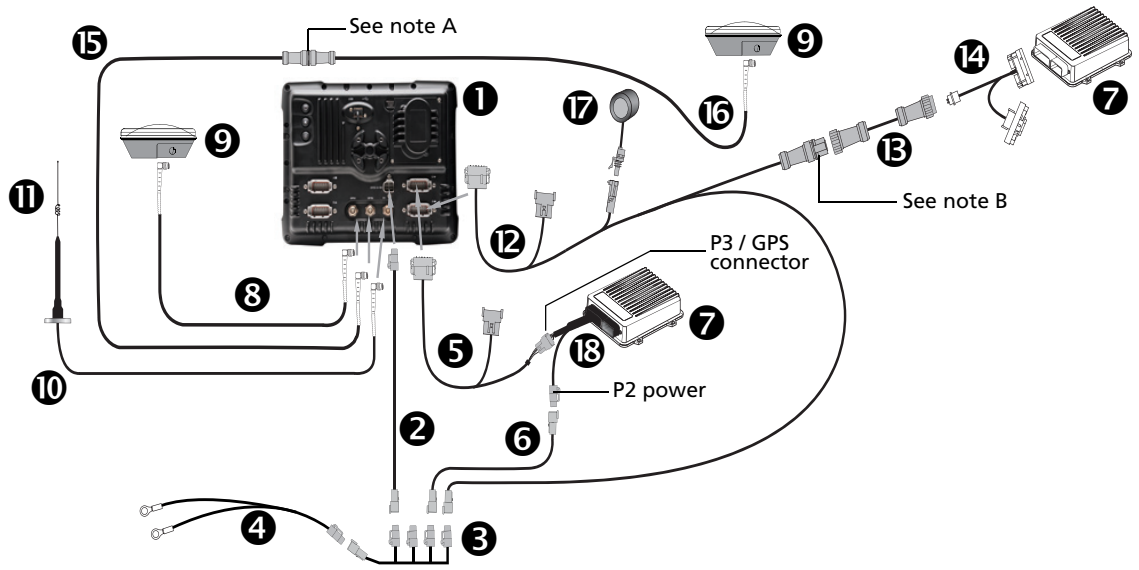
Note – *Connect to port "A" or "B".*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20 ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to TrueTracker cable	67092
⓭	Implement 10-pin data cable	0793-8740-450

Item	Description	Trimble part number
⓮	Cable assembly, implement receiver extension	75447
⓯	*Ag*GPS 252/262 receiver	55500-xx
⓰	Main NavController II cable	54601
⓱	Sonalert	43104

FM-1000 / Autopilot / TrueTracker / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system and Trimble® TrueTracker™ implement steering system, to use RTK corrections:



CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ⓬ to the P4 or P12 connector of the NavController II harness ⓲ 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.*

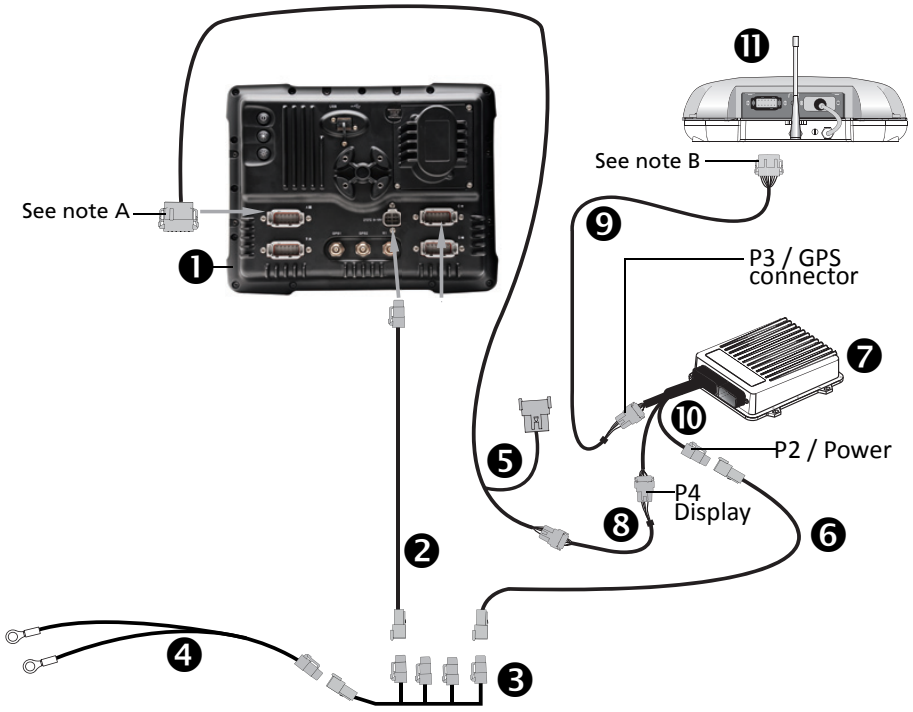
Note – *An optional 45' 10-pin data extension cable (P/N AG_0793-1290-450) is available for implements with a long tongue*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II (x2)	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna (x2)	77038-00
❿	NMO to TNC 20 ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to TrueTracker cable	67092
⓭	Implement extension cable	0793-8740-450

Item	Description	Trimble part number
⓮	FM-1000 to NavController II and TrueTracker main harness	67612
⓯	Coaxial 160" N/f + TNC/m-ra cable	68295
⓰	Coaxial 480" N/m + TNC/m-ra cable	67472
⓱	Sonalert	43104
⓲	Main NavController II cable	54601

FM-1000 / Autopilot / *Ag*GPS 252/262

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, to use an *Ag*GPS 252 or 262 receiver:



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

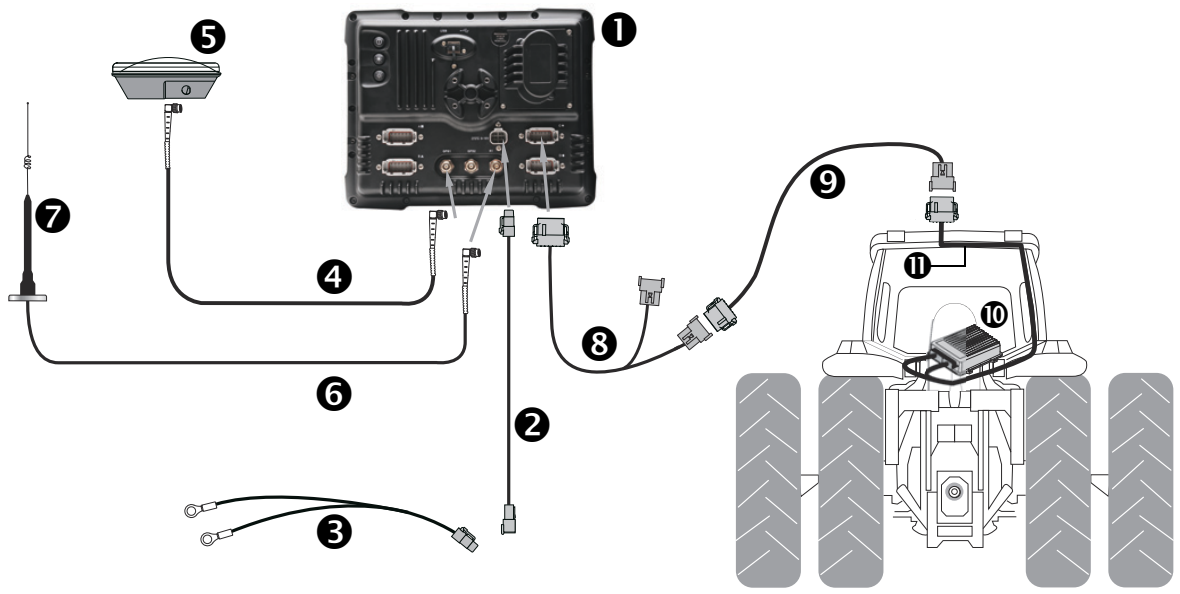
Note – *Connect only to port A or B on the FM-1000 integrated display.*

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

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	Cable assembly, 8-pin to 12-pin adaptor	76442
❾	Cable, *Ag*GPS 252/252 to NavController II	54608
❿	Main NavController II cable	54601
⓫	*Ag*GPS 252/262 receiver	55500-xx

FM-1000 / Factory-ready CNH vehicle

This figure shows how to connect the FM-1000 integrated display into a factory-ready CNH vehicle, to use RTK corrections:

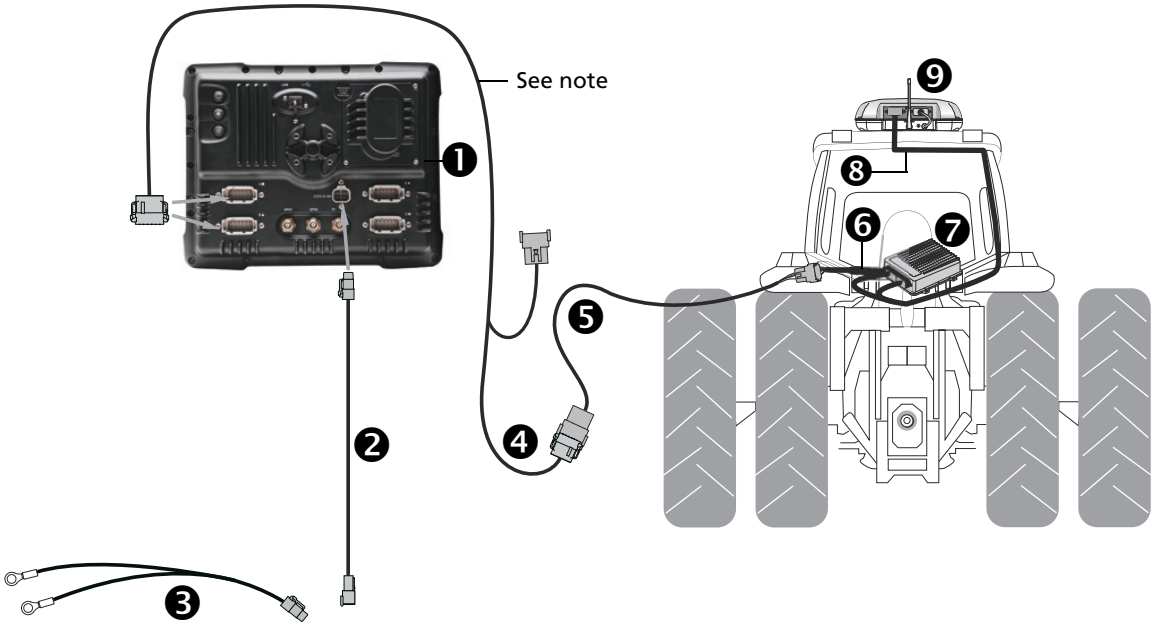


⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 to NavController II cable ❽ to the P4 connector of the NavController II harness will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	Basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	NMO to TNC 20 ft antenna cable and base	62120
❼	900 MHz radio antenna kit	22882-10
❽	FM-1000 to NavController II cable with port replicator	75741
❾	CNH hybrid to GPS cable	67120
❿	NavController II	55563-00
⓫	Factory-installed harness	N/A

FM-1000 / Autopilot / Factory-ready CNH vehicle / external receiver

This figure shows how to connect the FM-1000 integrated display into a factory-ready CNH vehicle, using the Autopilot system and an *Ag*GPS 252/262 external receiver:



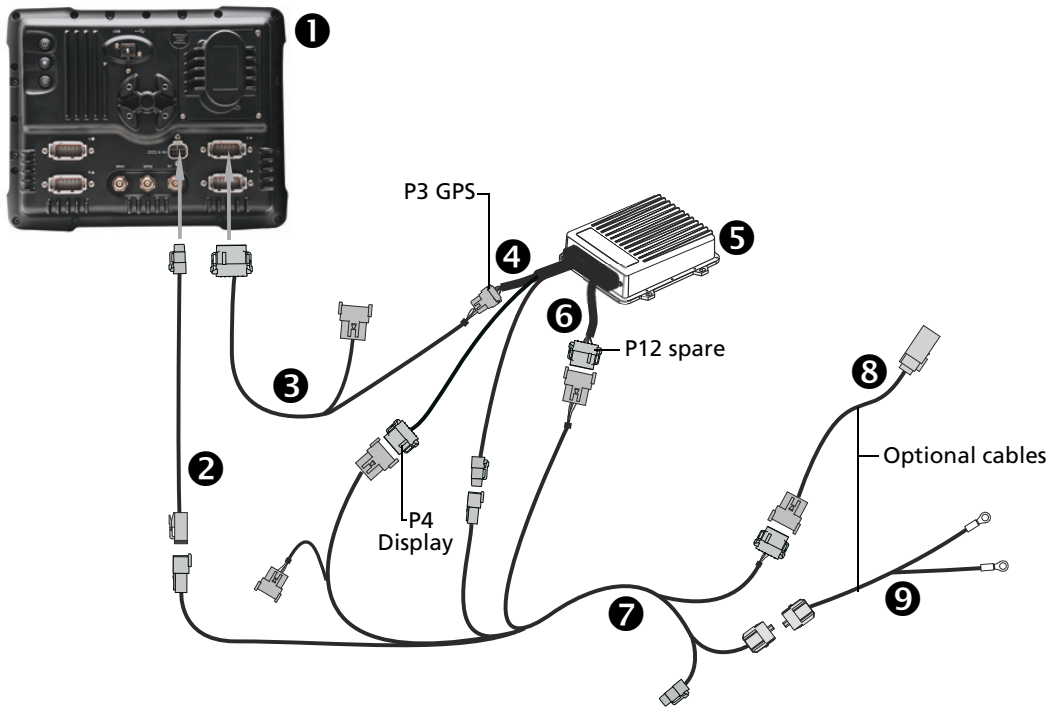
⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 to NavController II cable ❹ to the P4 connector of the NavController II harness will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Note – *Connect only to port A or B on the FM-1000 integrated display.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	Basic power cable	67258
❹	FM-1000 to NavController II cable with port replicator	75741
❺	8-pin to 12-pin DTM adaptor cable	76442
❻	CNH hybrid P4 extension cable kit	56694-00S
❼	NavController II	55563-00
❽	Factory installed harness	N/A
❾	*Ag*GPS 252/262 receiver	55500-xx

FM-1000 / Autopilot / AGCO Wheeled Tractors

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

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 to NavController II cable with port replicator	75741
❹	Main NavController II cable	54601
❺	NavController II	55563-00
❻	NavController II auxiliary cable	54602
❼	Autopilot to AGCO power and CAN interface cable	77644 (incl w/ kit 77648)
❽	Adaptor for early Autoguide models (optional)	77647 (incl w/ kit 77648)
❾	Power adaptor for early Autoguide models (optional)	77646 (incl w/ kit 77648)

CHAPTER 5

Connecting to the EZ-Pilot System

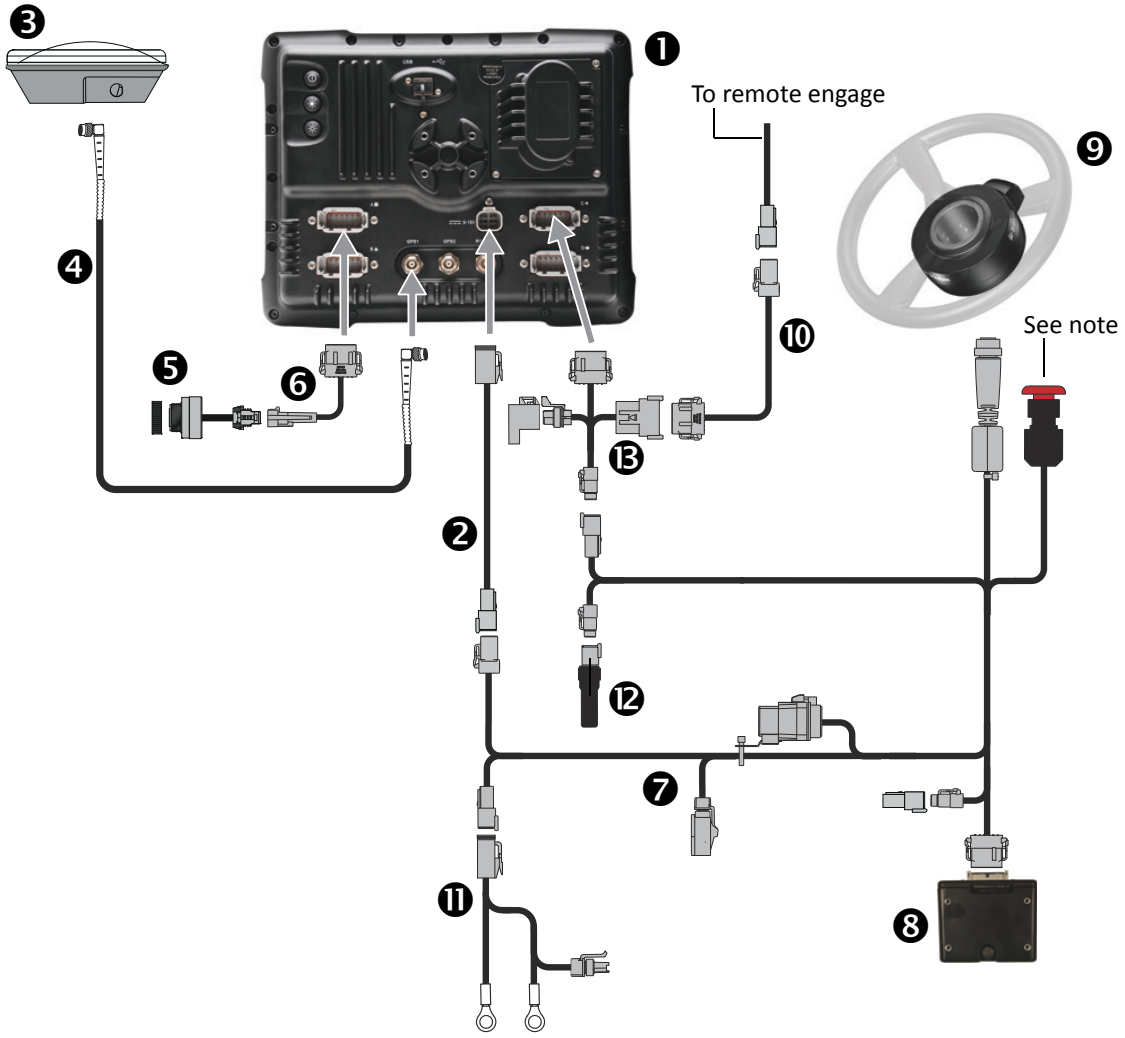
In this chapter:

- FM-1000 / EZ-Pilot

This chapter shows how to connect the FM-1000 integrated display to the EZ-Pilot™ steering system.

FM-1000 / EZ-Pilot

This figure shows how to connect the FM-1000 integrated display to the EZ-Pilot system and a remote engage switch.



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	AG25 antenna	77038-00
❹	8 M GPS TNC/TNC right angle cable	50449
❺	Sonalert	43104
❻	Display to Sonalert cable	84668
❼	IMD-600 unit to SAM-200 motor to CAN and power cable ***Note –*** *The EZ-Pilot emergency stop button is part of this cable.*	76351
❽	IMD-600 unit	83390-00
❾	SAM-200 motor	83382-00
❿	EZ-Pilot remote engage adapter cable	88506

Item	Description	Trimble part number
⓫	Base power cable	67259
⓬	CAN bus terminator	59783
⓭	Cable Assy, display to Field-IQ system	75834

CHAPTER 6

Connecting the Field-IQ Crop Input Control System

In this chapter:

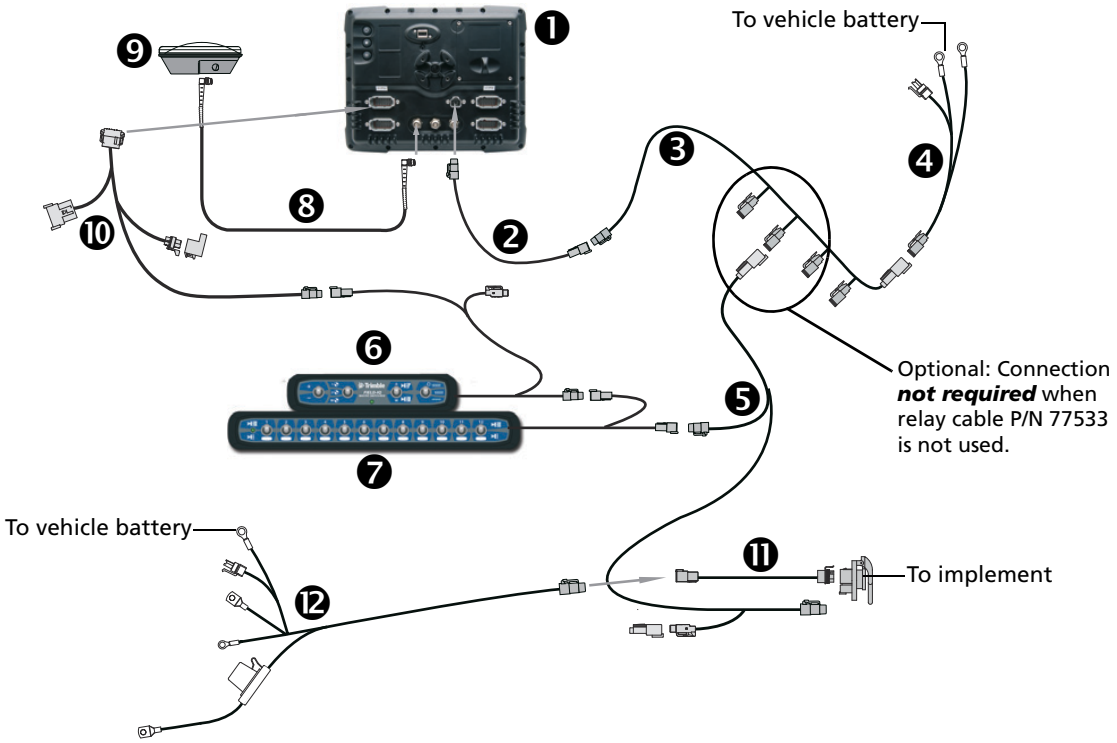
- FM-1000 / Field-IQ cab kit / Powell hitch connector
- FM-1000 / Field-IQ cab kit / Powell hitch connector / power relay
- Field-IQ / Rawson Par 2 drives / Tru Count Air Clutch
- FM-1000 / Field-IQ cab kit / Rawson PAR 40
- FM-1000 / Autopilot / Field-IQ cab kit / Rawson PAR 40 / RTK Corrections
- FM-1000 / Field-IQ Rate and Section control to Raven 4x0 or EZ-Boom harness
- FM-1000 / Field-IQ Section Control only to the Raven 4x0
- FM-1000 / Field-IQ Section Control to Raven 4x00
- FM-1000 / Field-IQ Rate and Section Control to Raven 4x00
- FM-1000 / Field-IQ Rate and Section Control for CaseIH SPX (2009 and later) sprayers
- FM-1000 / Field-IQ Rate and Section Control to AGCO RoGator (2007 and later)
- FM-1000 / Field-IQ cab kit / NH3 and liquid application full harness
- FM-1000 / Autopilot / Field-IQ cab kit / Spreader
- FM-1000 / Field-IQ Cab Kit / Seed Monitoring Only
- FM-1000 / Field-IQ Cab Kit / Row Section Control
- FM-1000 / Field-IQ cab kit / Seed monitoring / Row section control
- FM-1000 / Field-IQ cab kit / Seed monitoring / Rate and Section Control
- FM-1000 / Field-IQ cab kit / Seed monitoring / Rate and Section Control/ Liquid Control
- FM-1000 / Field-IQ Cab Kit / Seed Monitoring / Rawson PAR 2 Seeding
- FM-1000/Field-IQ Cab Kit / Seed Monitoring / Rawson PAR 2 Seeding / Row Section Control

This chapter shows the different ways to connect the FM-1000 integrated display to the Field-IQ™ crop input control system.

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

FM-1000 / Field-IQ cab kit / Powell hitch connector

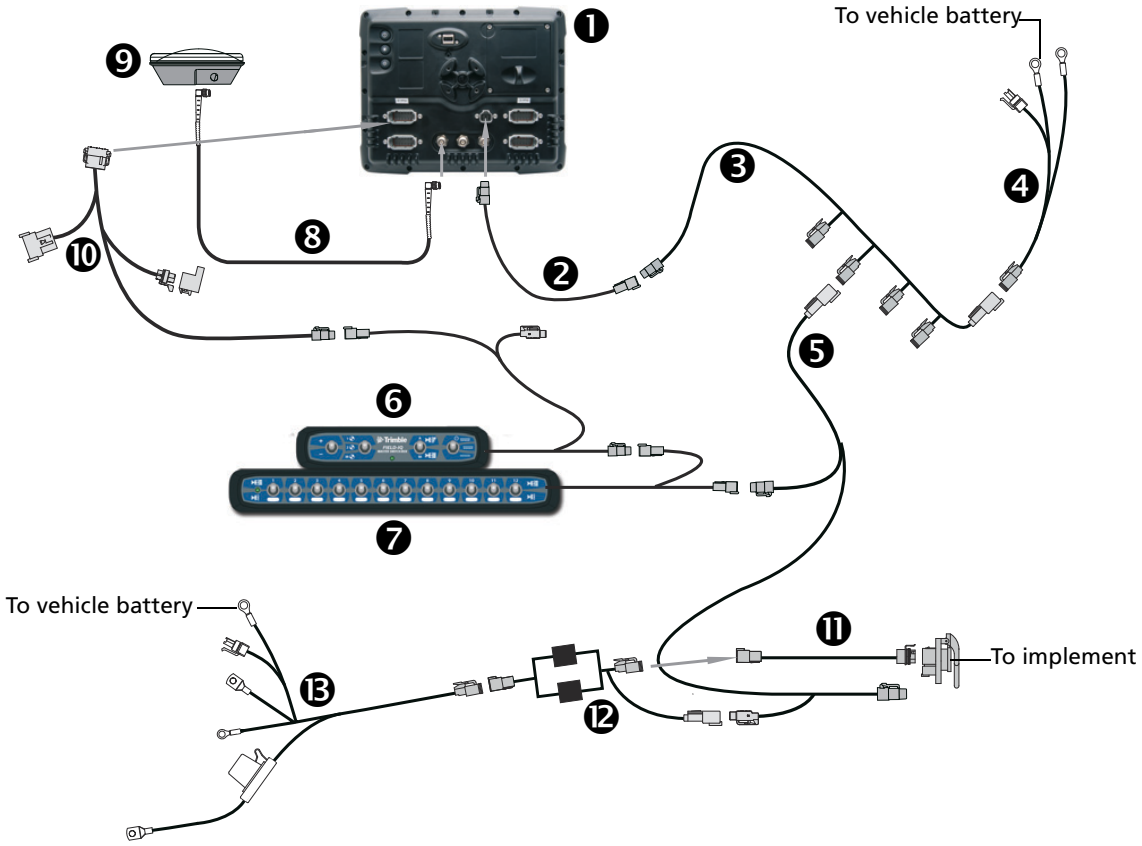
Connecting the FM-1000 integrated display with the Field-IQ cab kit, and a Powell hitch connector:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	Cab to hitch CAN cable	77368
❻	Field-IQ master switch box	75050-01
❼	12 section switch box (optional)	75060-01
❽	8 m TNC/TMC right-angle GPS cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	FM-1000 integrated display to Field-IQ cable	75834
⓫	IBRC to DPT adapter cable (optional)	77413
⓬	Power to cab cable	76941

FM-1000 / Field-IQ cab kit / Powell hitch connector / power relay

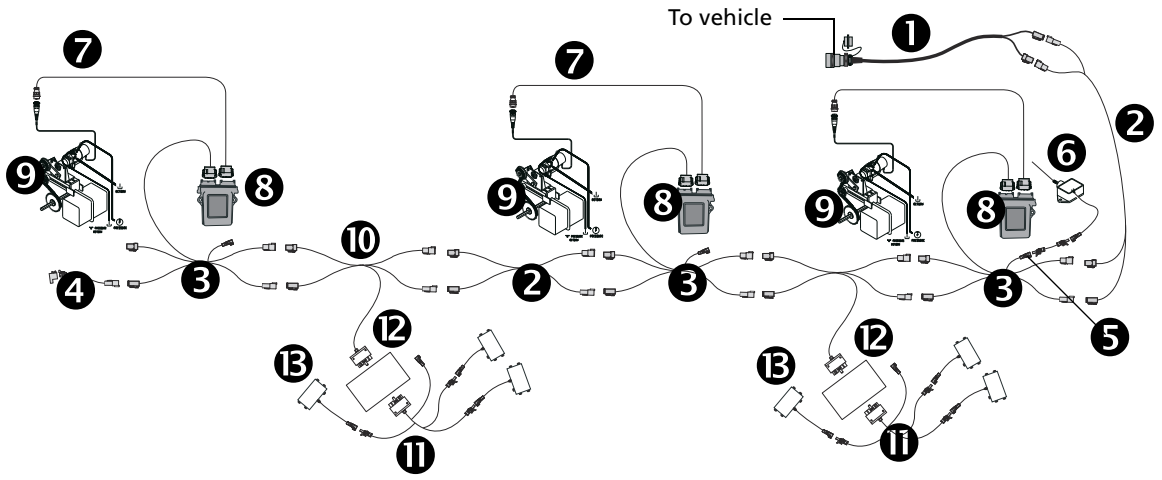
Connecting the FM-1000 integrated display, Field-IQ cab kit, power relay, and Powell hitch connector:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	Cab to hitch CAN cable	77368
❻	Field-IQ master switch box	75050-01
❼	12 section switch box (optional)	75060-01
❽	8m TNC/TMC right-angle GPS cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	FM-1000 integrated display to Field-IQ cable	75834
⓫	IBRC to DPT adapter cable (optional)	77413
⓬	Dual relay power cutoff cable	77533
⓭	Power to cab cable	76941

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

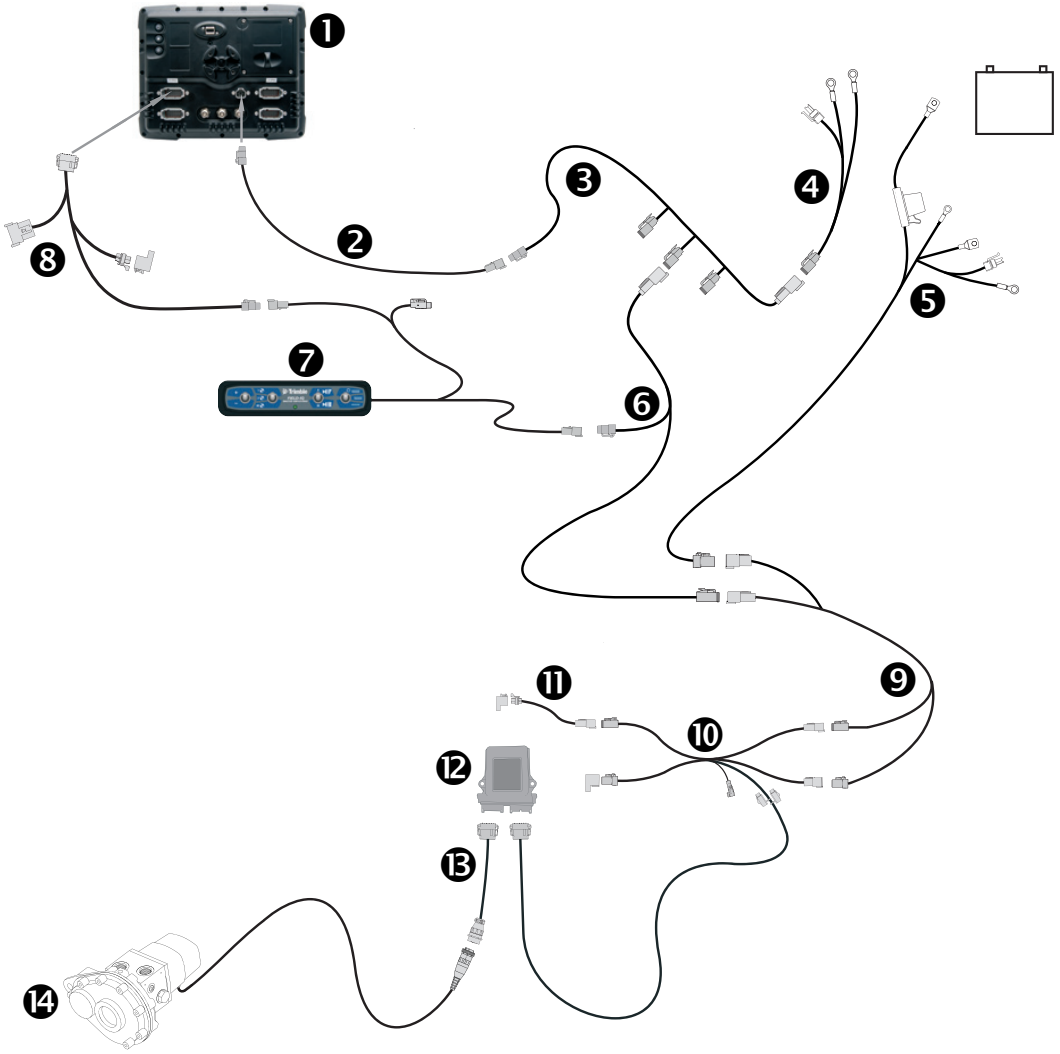
This figure shows how to connect the Field-IQ system with the Rawson Par 2 drive, and the Tru Count Air Clutch®:



Item	Description	Trimble part number
❶	Implement harness (Powell adapter), optional	77611-01
❷	CAN/power extension cable	75528-xx
❸	Rawson module T-cable	75527
❹	Implement terminator kit (includes 75491)	75529
❺	20’ Implement switch extension cable	77542
❻	Whisker switch	77636
❼	Rawson motor CPC to DTM cable	75531
❽	Rawson control module	75070-00
❾	Rawson PAR 2 motor	300499
❿	CAN-T Magnus cable	75524
⓫	Switching module to valve module cable	76859
⓬	Switch control module	75774-05
⓭	Tru Count module	68355-00

FM-1000 / Field-IQ cab kit / Rawson PAR 40

Connecting the FM-1000 integrated display with the Field-IQ cab kit and the Rawson PAR 40 motor:

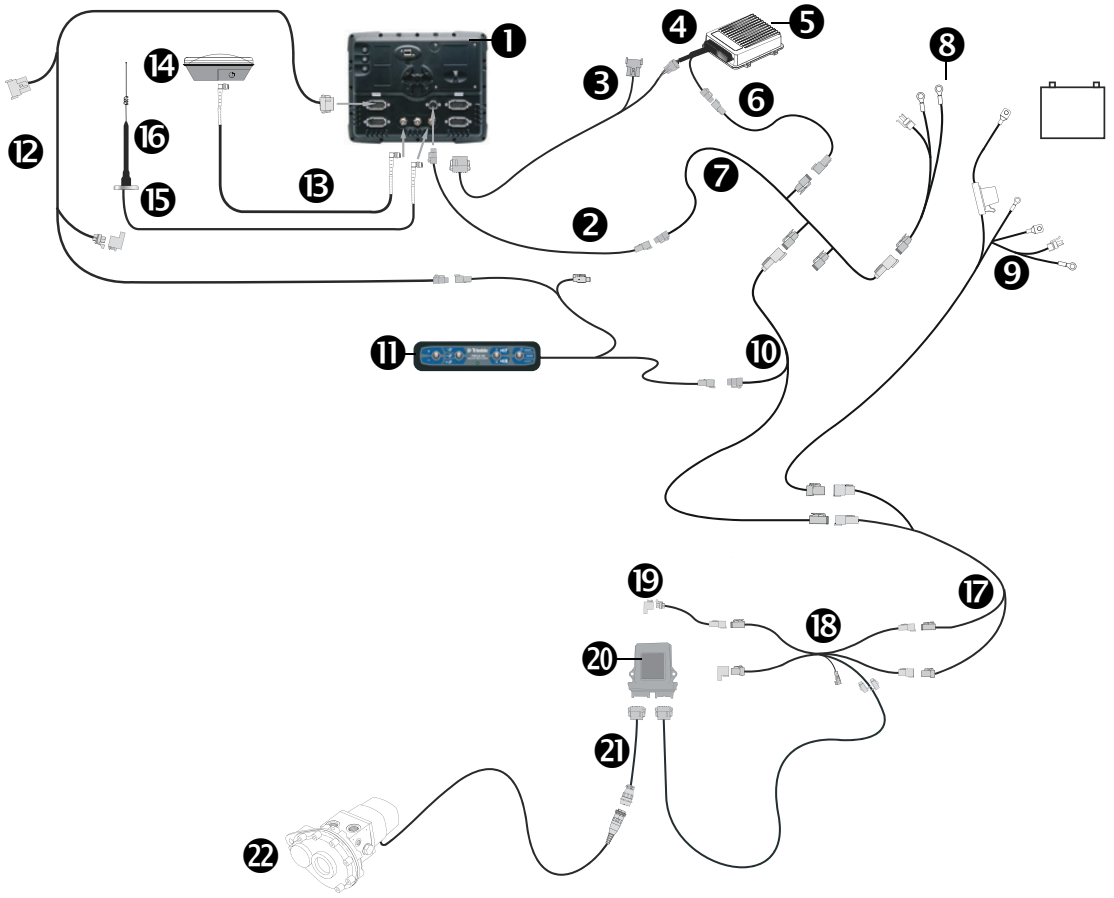


Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	Power to cab cable	76941
❻	Cab to hitch CAN cable	77368
❼	Field-IQ master switch box	75050-01
❽	FM-1000 integrated display to Field-IQ cable	75834
❾	CAN to power extension cable	75528-xx
❿	Rawson module Tee cable	75527
⓫	Implement terminator kit (includes 75491)	75529

Item	Description	Trimble part number
⓬	Rawson control module	75070-00
⓭	Rawson motor CPC to DTM cable	75531
⓮	Rawson PAR 40 motor	304152

FM-1000 / Autopilot / Field-IQ cab kit / Rawson PAR 40 / RTK Corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, the Field-IQ cab kit and the Rawson PAR 40 motor, using RTK corrections:



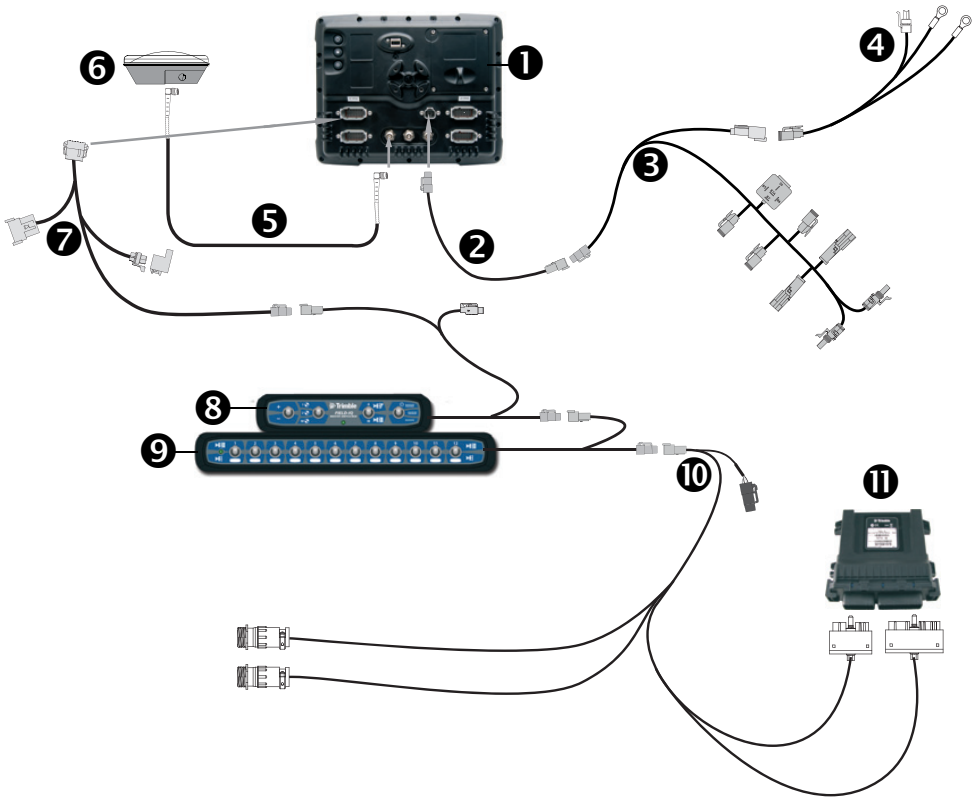
⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 to NavController II cable ❸ to the P4 or P12 connector of the NavController II harness ❹ will result in damage to the FM-1000/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
c	FM-1000 integrated display	93100-02
d	FM-1000 power cable	66694
e	FM-1000 to NavController II cable with port replicator	75741
f	Main NavController II cable	54601
g	NavController II	55563-00
h	2 pin DTM to 2 pin DT power adaptor	67095
i	FM-1000 power cable with relay and switch (power bus)	67259
j	Basic power cable	67258

Item	Description	Trimble part number
❾	Power to cab cable	76941
❿	Cab to hitch CAN cable	77368
⓫	Field-IQ master switch box	75050-01
⓬	FM-1000 integrated display to Field-IQ cable	75834
⓭	8 m GPS TNC/TNC RT angle cable	50449
⓮	Ag25 GNSS antenna	77038-00
⓯	NMO to TNC 20ft antenna cable and base	62120
⓰	900 MHz radio antenna kit	22882-10
⓱	CAN to power extension cable	75528-xx
⓲	Rawson module Tee cable	75527
⓳	Implement terminator kit (includes 75491)	75529
⓴	Rawson control module	75070-00
㉑	Rawon motor CPC to DTM cable	75531
㉒	Rawson PAR 40 motor	304152

FM-1000 / Field-IQ Rate and Section control to Raven 4x0 or EZ-Boom harness

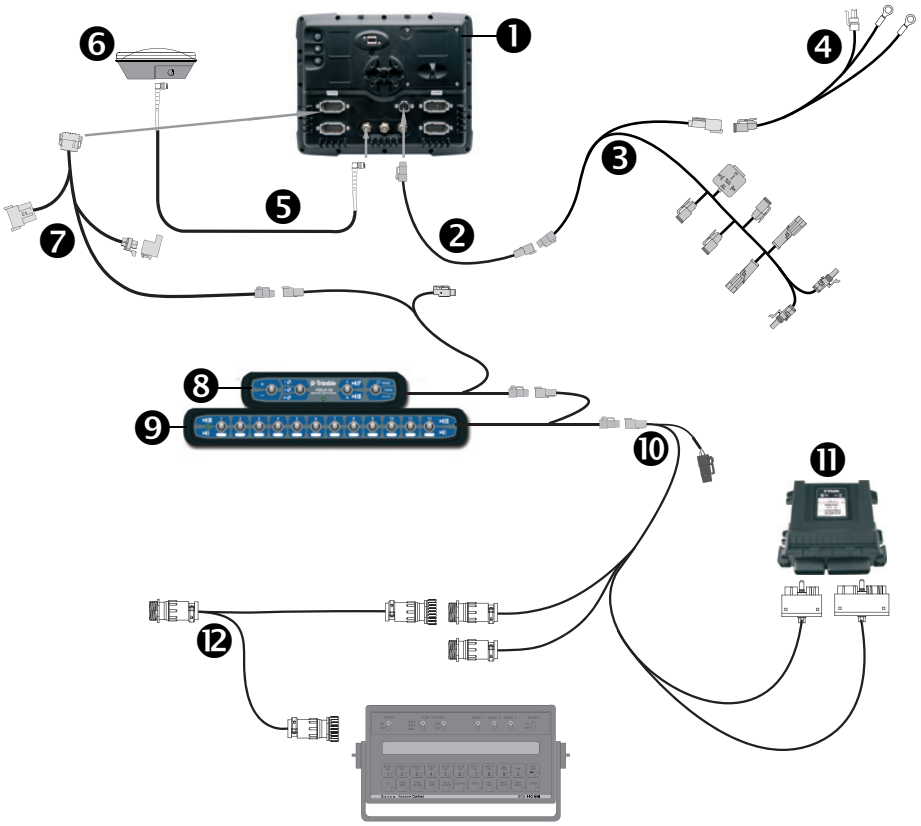
Connecting the FM-1000 integrated display with Field-IQ Rate and Section Control and the Raven 4x0 or EZ-Boom cables:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	Power bus	67259
❹	Basic power cable	67258
❺	8 m GPS TNC/TNC RT angle cable	50449
❻	Ag25 GNSS antenna	77038-00
❼	Display-to-Field-IQ cable	75834
❽	Field-IQ master switch box	75050-01
❾	12 section switch box (optional)	75060-01
❿	Rate and Section Control module adapter cable	75503
⓫	Rate and Section Control module	75774-00

FM-1000 / Field-IQ Section Control only to the Raven 4x0

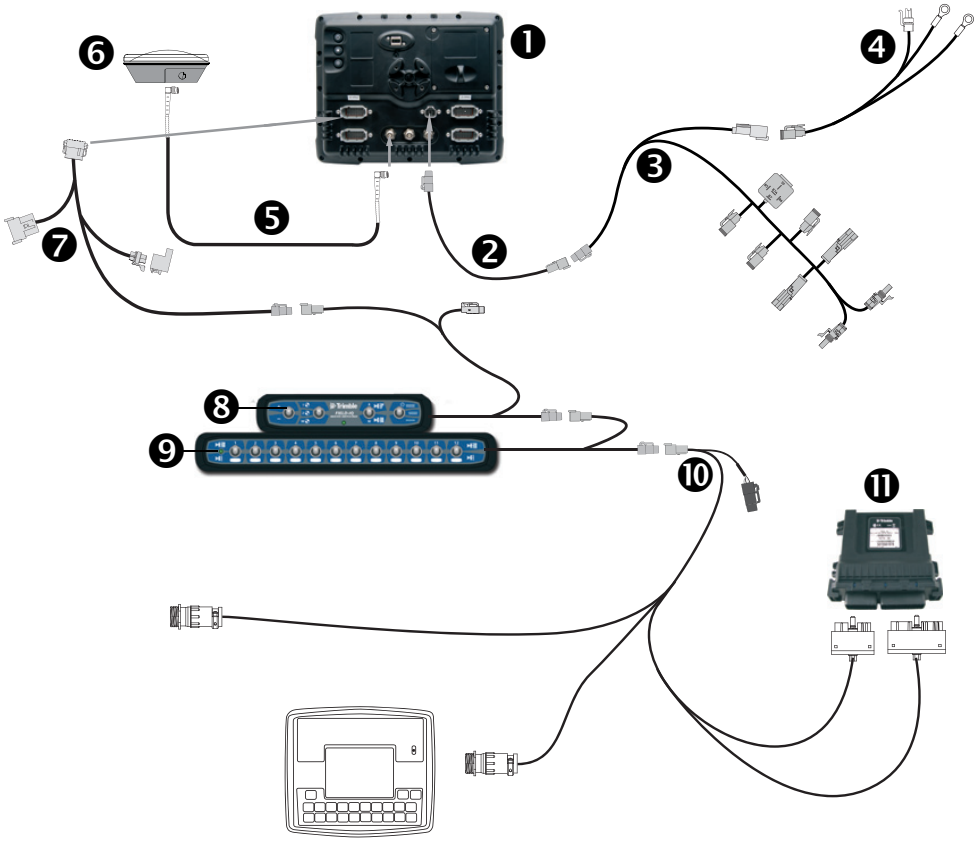
This figure shows how to connect the FM-1000 integrated display with Field-IQ Section Control only to the Raven 4x0 controller:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	Power bus	67259
❹	Basic power cable	67258
❺	8 m GPS TNC/TNC RT angle cable	50449
❻	Ag25 GNSS antenna	77038-00
❼	Display-to-Field-IQ cable	75834
❽	Field-IQ master switch box	75050-01
❾	12 section switch box (optional)	75060-01
❿	Rate and Section Control module adapter cable	75503
⓫	Rate and Section Control module	75774-00
⓬	Raven-to-EZ-Boom system 4x0 T-cable	79514

FM-1000 / Field-IQ Section Control to Raven 4x00

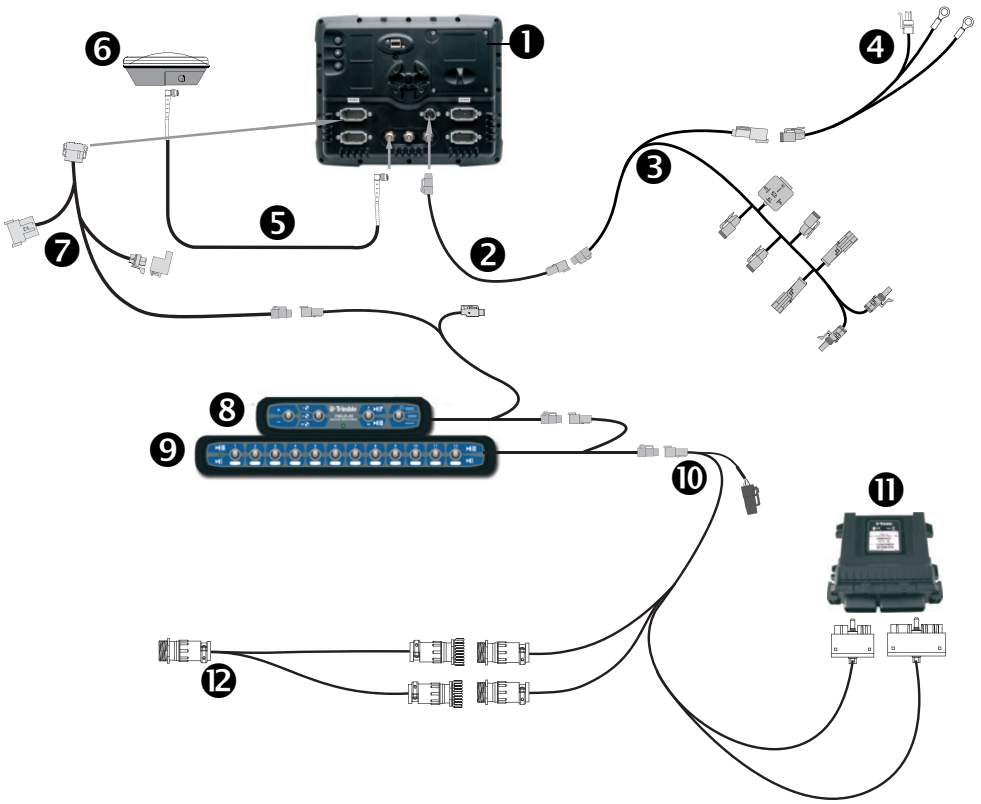
Connecting the FM-1000 integrated display with Field-IQ Section Control to the Raven 4x00 controller:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	Power bus	67259
❹	Basic power cable	67258
❺	8 m GPS TNC/TNC RT angle cable	50449
❻	Ag25 GNSS antenna	77038-00
❼	Display-to-Field-IQ cable	75834
❽	Field-IQ master switch box	75050-01
❾	12 section switch box (optional)	75060-01
❿	Rate and Section Control module adapter cable	79854
⓫	Rate and Section Control module	75774-00

FM-1000 / Field-IQ Rate and Section Control to Raven 4x00

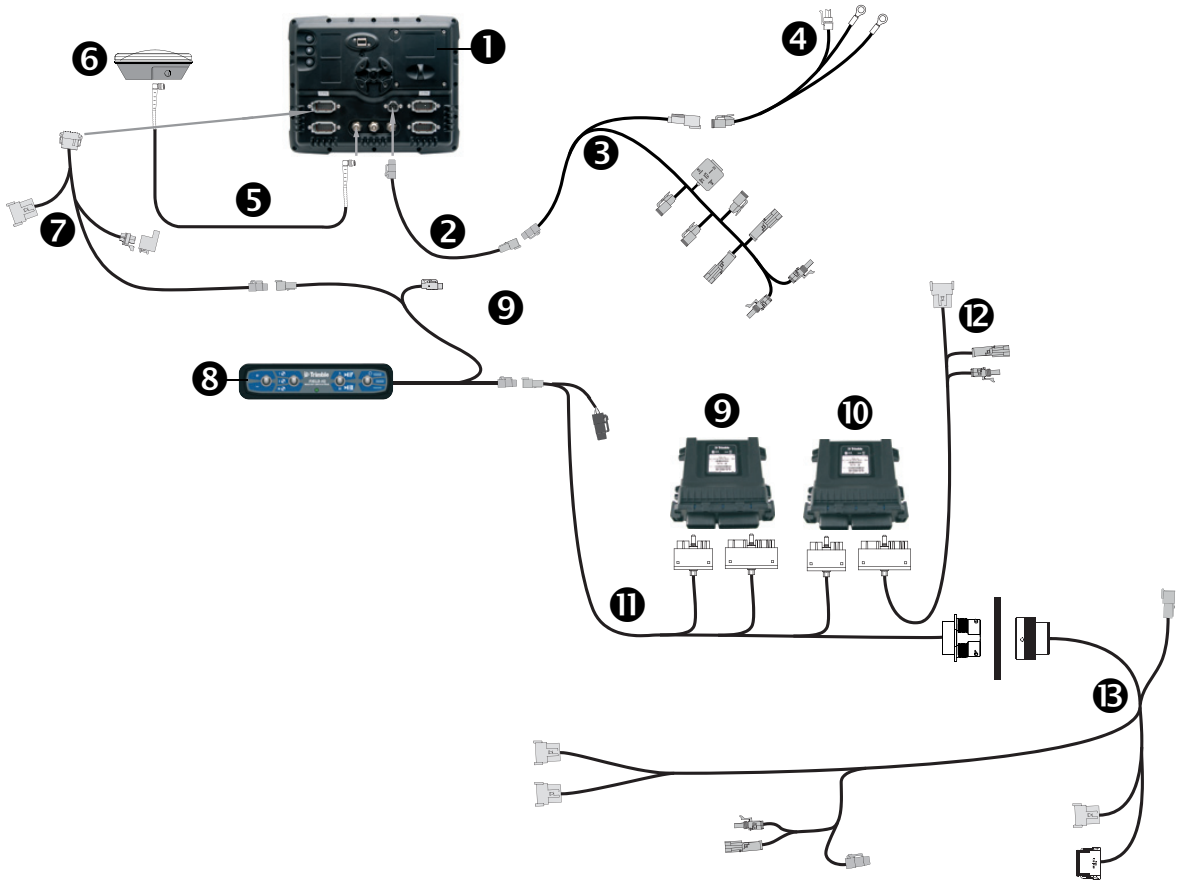
Connecting the FM-1000 integrated display with Field-IQ Rate and Section Control and the Raven 4x00 cables:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	Power bus	67259
❹	Basic power cable	67258
❺	8 m GPS TNC/TNC RT angle cable	50449
❻	Ag25 GNSS antenna	77038-00
❼	Display-to-Field-IQ cable	75834
❽	Field-IQ master switch box	75050-01
❾	12 section switch box (optional)	75060-01
❿	Rate and Section Control module adapter cable	75503
⓫	Rate and Section Control module	75774-00
⓬	Raven 4x0-to-4x00 harness adapter	59943

FM-1000 / Field-IQ Rate and Section Control for CaseIH SPX (2009 and later) sprayers

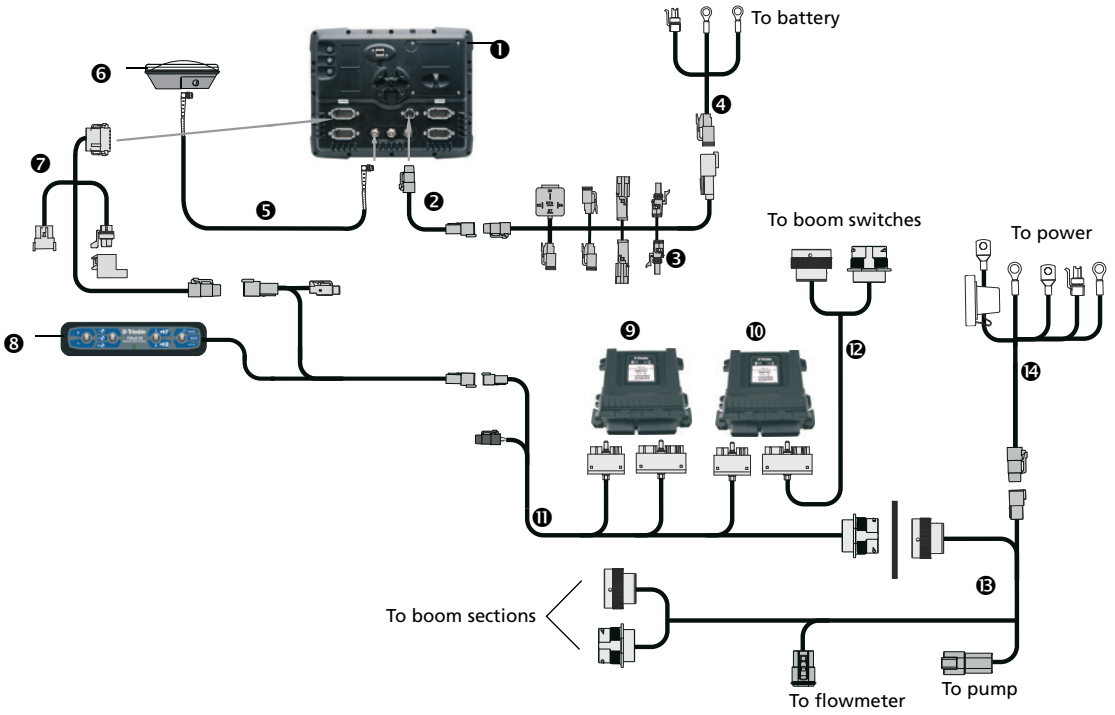
Connecting the FM-1000 integrated display with Field-IQ Rate and Section Control for Case IH SPX sprayers (2009 or later):



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	Power bus	67259
❹	Basic power cable	67258
❺	8 m GPS TNC/TNC RT angle cable	50449
❻	Ag25 GNSS antenna	77038-00
❼	Display-to-Field-IQ cable	75834
❽	Field-IQ master switch box	75050-01
❾	Rate and section control module	75774-00
❿	Signal input module	76774-00
⓫	Field-IQ-to-sprayer cab cable	80099
⓬	Field-IQ SPX switch input cable (2009 and later)	80254
⓭	Field-IQ SPX chassis harness cable (2009 and later)	80250

FM-1000 / Field-IQ Rate and Section Control to AGCO RoGator (2007 and later)

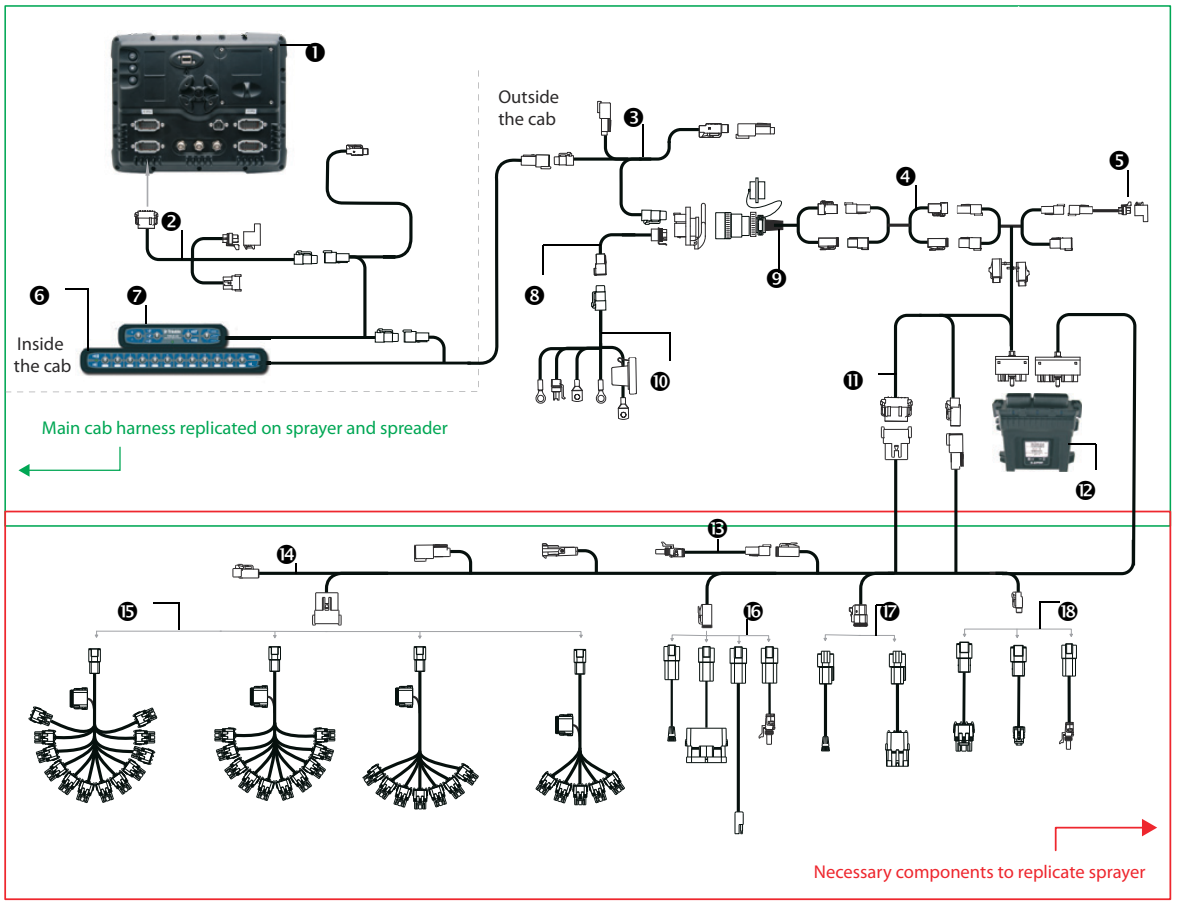
Connecting the FM-1000 integrated display, Field-IQ Rate and Section Control and AGCO RoGator:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	Power bus	67259
❹	Basic power cable	67258
❺	8 m GPS TNC/TNC RT angle cable	50449
❻	Ag25 GNSS antenna	77038-00
❼	Display-to-Field-IQ cable	75834
❽	Field-IQ master switch box	75050-01
❾	Rate and section control module	75774-00
❿	Signal input module	76774-00
⓫	Field-IQ-to-sprayer cab cable	80099
⓬	Field-IQ-to-RoGator switch input cable	80347
⓭	Field-IQ-to-RoGator chassis harness cable	80417
⓮	Field-IQ-to-power cab cable	76941

FM-1000 / Field-IQ cab kit / NH3 and liquid application full harness

Connecting the FM-1000 integrated display to the Field-IQ cab kit and the Rate and Section Control module with full NH3/liquid harness:

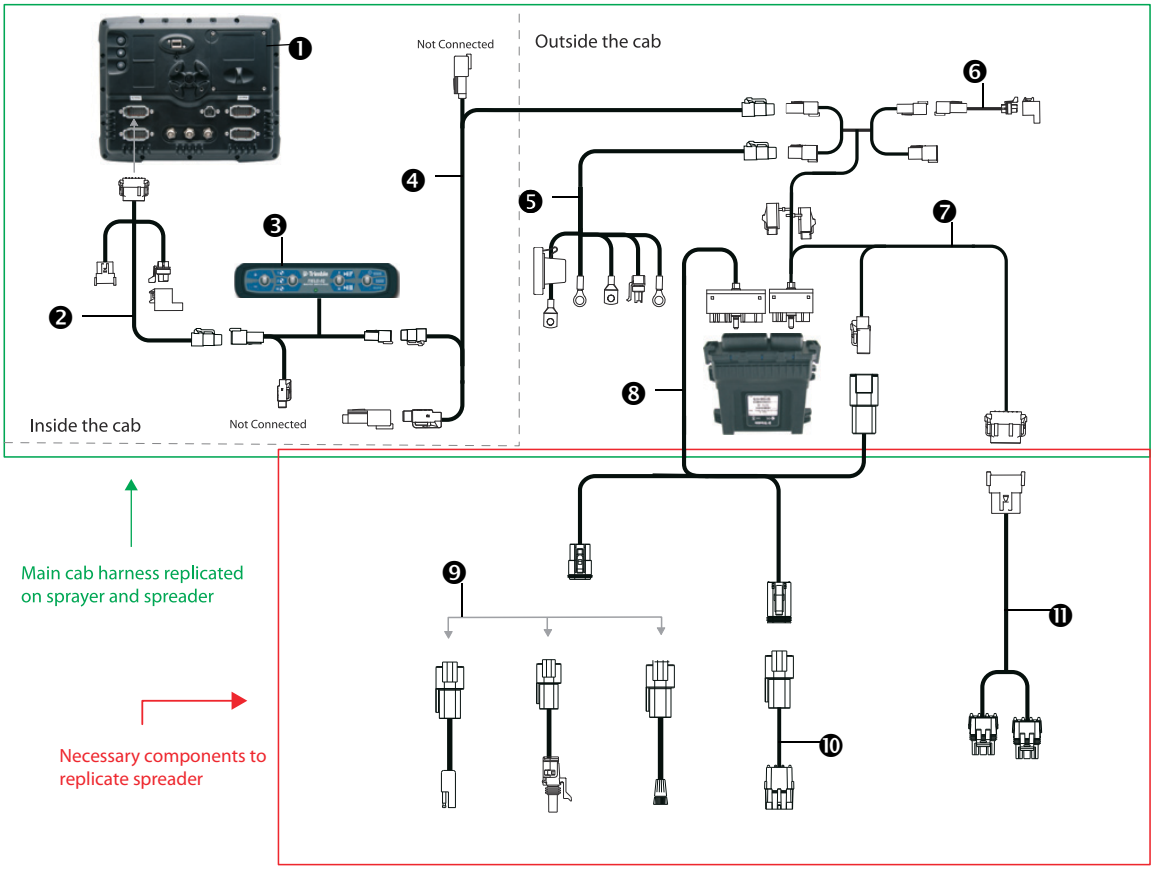


Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	Cab to hitch CAN cable	77368
❹	CAN/power extension cable	75528-xx
❺	Field-IQ implement terminator adapter	75529
❻	Field-IQ 12-section switch box, optional	75060-01
❼	Field-IQ master switch box	75050-01
❽	Powell quick disconnect (tractor side), optional	77413
❾	Implement harness (Powell adapter) - implement side, optional	77611-01
❿	Power to cab cable	76941
⓫	Power/CANbus harness	75526
⓬	Rate and section control module	75774-00

Item	Description	Trimble part number
⓭	Raven on/off valve adapter	81023
⓮	Field-IQ Rate and Section implement adapter	80540
⓯	Section valve adapter cable (left to right):	
	- Field-IQ to 12 section Raven adapter (3 wire)	80961
	- Field-IQ to 10 section Raven adapter (3 wire)	78225
	- Field-IQ to 7 section Raven adapter (3 wire)	77541
	- Field-IQ to 5 section Raven adapter (3 wire)	80587
⓰	Flow control adapter cable (left to right):	
	- Field-IQ to Raven fast valve	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
⓱	Flow meter cable:	
	- Field-IQ to Raven flowmeter adapter	80584
	- Field-IQ to Dickey-john encoder/flowmeter	80539
⓲	Pressure sensor cable (left to right):	
	- Field-IQ to Dickey-john pressure sensor adapter	80575
	- Field-IQ to Raven pressure sensor adapter	80583
	- Trimble pressure sensor adapter	54618

FM-1000 / Autopilot / Field-IQ cab kit / Spreader

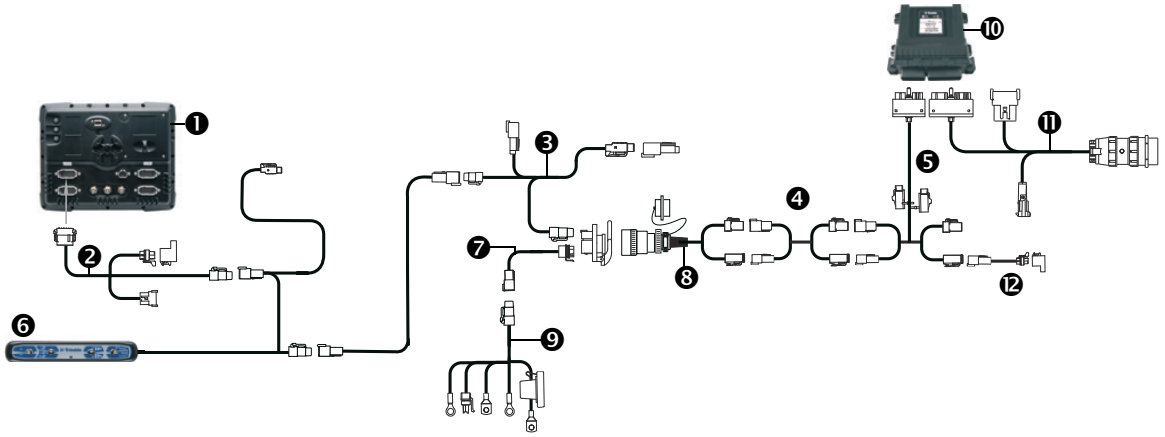
Connecting the FM-1000 integrated display, Field-IQ cab kit and the Rate and Section Control Module for spreader applications:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	Display to Field-IQ cable	75834
❸	Field-IQ master switch box	75050-01
❹	Cab to hitch CAN cable	77368
❺	Power to cab cable	76941
❻	Field-IQ implement terminator adapter	75529
❼	Power/CANbus harness	75526
❽	Field-IQ universal spreader breakout cable	80553
❾	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
❿	Field-IQ to Dickey-john encoder/flowmeter	80539
⓫	Field-IQ, spreader gate height and spinner speed adapter cable	80507

FM-1000 / Field-IQ Cab Kit / Seed Monitoring Only

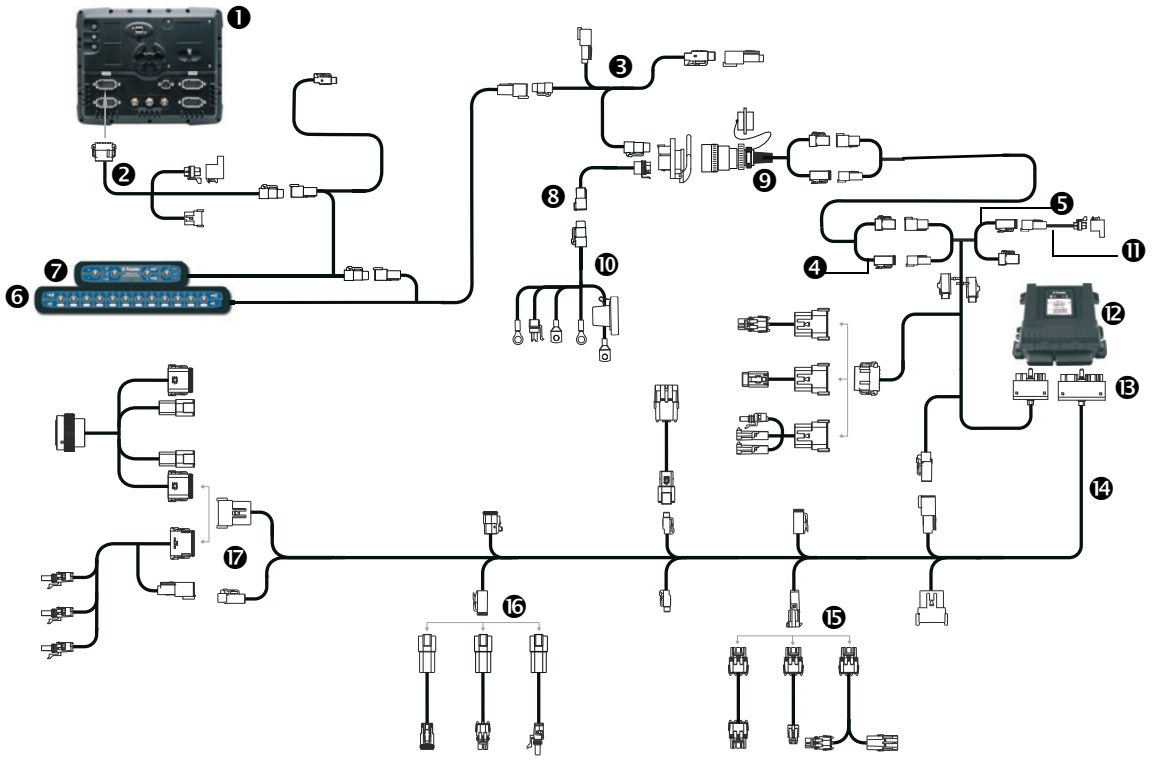
Connecting the FM-1000 integrated display with Field-IQ cab kit and the Seed Monitoring module:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	Display to Field-IQ cable	75834
❸	Cab to hitch CAN cable	77368
❹	CAN/Power extension cable	75528-XX
❺	Cable assembly, rate/section module tee	75526
❻	Field-IQ master switchbox	75050-01
❼	Powell Quick Disconnect (Tractor Side) (optional)	77413
❽	Implement harness (Powell adapter), implement side (optional)	77611-01
❾	Power to cab cable	76941
❿	Seed Monitoring Module (SMM)	76774-05
⓫	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
⓬	Field-IQ implement terminator adapter	75529

FM-1000 / Field-IQ Cab Kit / Row Section Control

Connecting the FM-1000 integrated display to the Field-IQ cab kit with the section-only control for Tru Count or John Deere row command clutches.

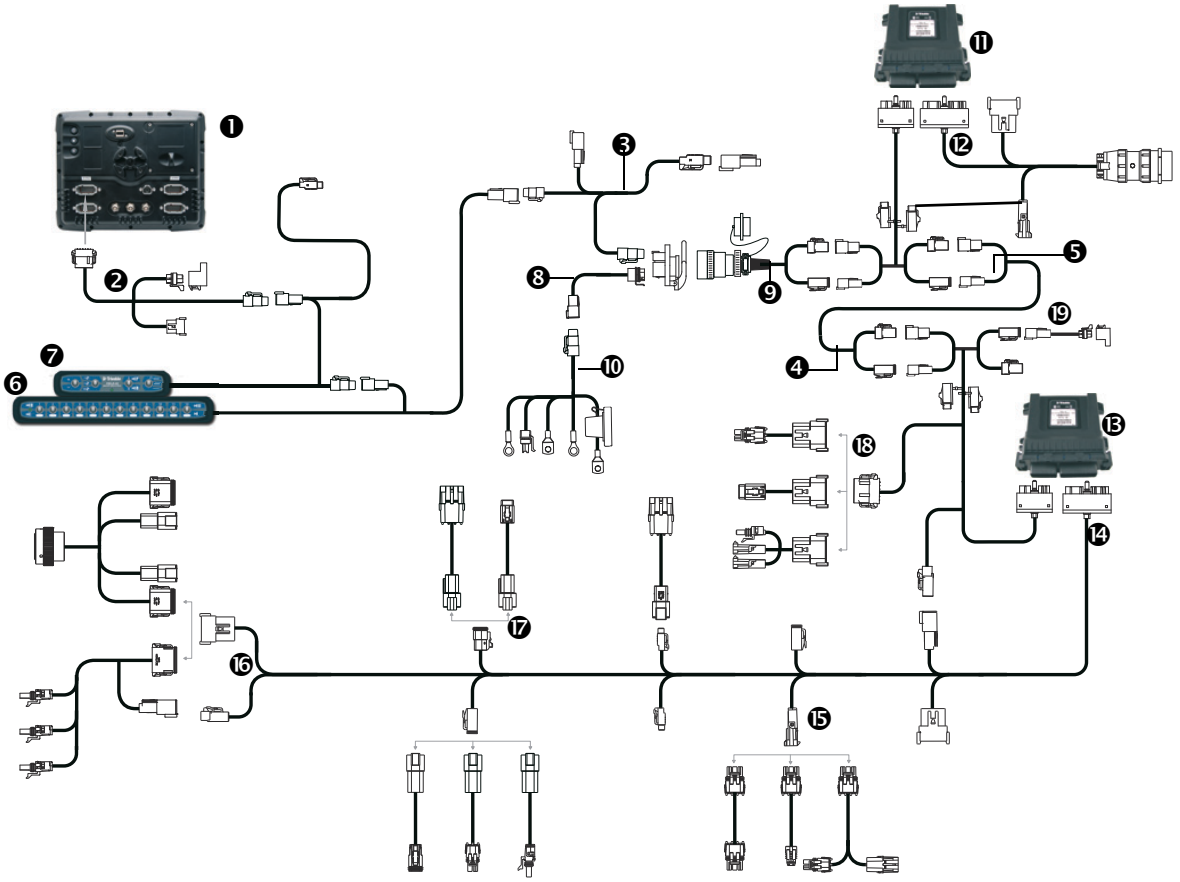


Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	Display to Field-IQ cable	75834
❸	Cab to hitch CAN cable	77368
❹	CAN/Power extension cable	75528-XX
❺	Cable Assy, rate/section module tee	75526
❻	Field-IQ 12-section switchbox (optional)	75060-01
❼	Field-IQ master switchbox	75050-01
❽	Powell quick disconnect, tractor side (optional)	77413
❾	Implement harness (Powell adapter), implement side (optional)	77611-01
❿	Power to cab cable	76941
⓫	Field-IQ implement terminator adapter	75529
⓬	Section control module (II)	75774-10
⓭	Field-IQ rate and section implement adapter	80540

Item	Description	Trimble part number
⓮	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
⓯	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
⓰	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
⓱	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

FM-1000 / Field-IQ cab kit / Seed monitoring / Row section control

Connecting the FM-1000 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.

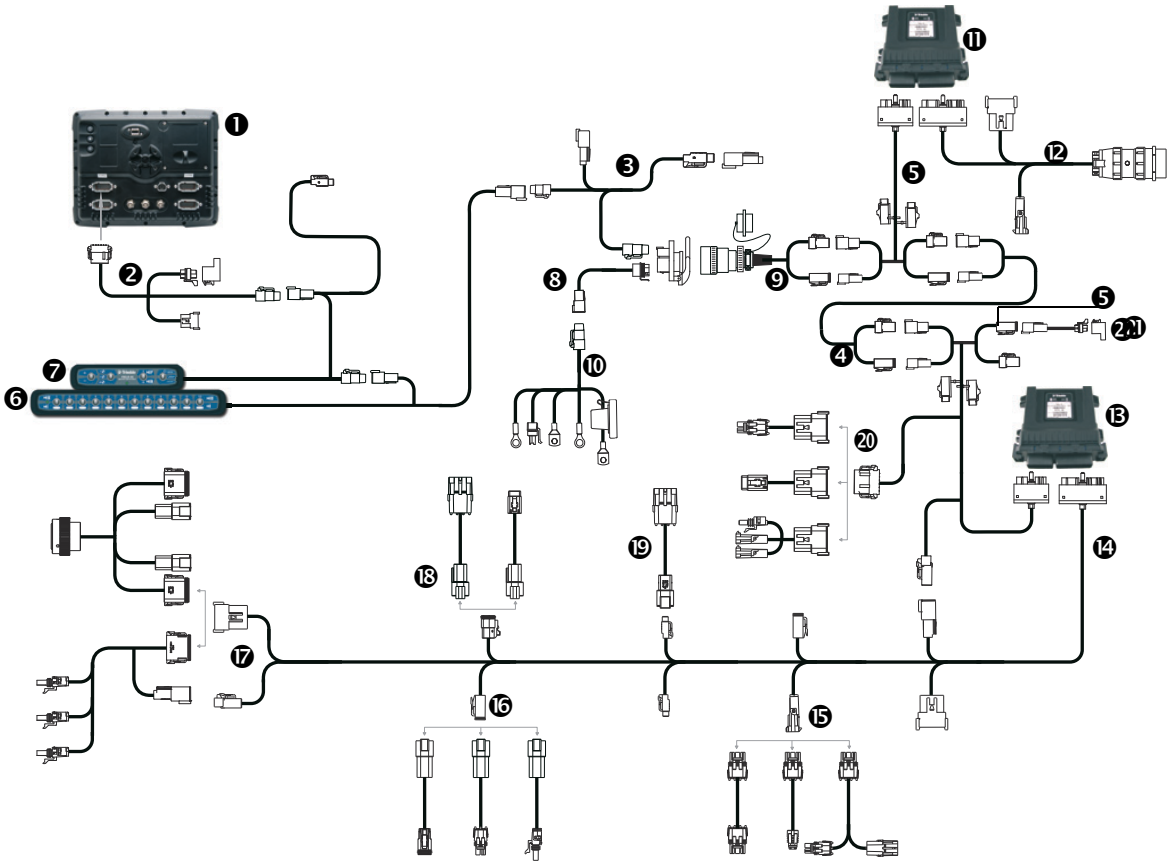


Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	Display to Field-IQ cable	75834
❸	Cab to hitch CAN cable	77368
❹	CAN/Power extension cable	75528-XX
❺	Cable Assy, rate/section module tee	75526
❻	Field-IQ 12-section switchbox (optional)	75060-01
❼	Field-IQ master switchbox	75050-01
❽	Powell quick disconnect, tractor side (optional)	77413
❾	Implement harness (Powell adapter), implement side (optional)	77611-01
❿	Power to cab cable	76941
⓫	Seed Monitoring Module (SMM)	76774-05

Item	Description	Trimble part number
⓬	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
⓭	Section control module (II)	76774-05
⓮	Field-IQ rate and section implement adapter	75774-10
⓯	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
⓰	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
⓱	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
⓲	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
⓳	Field-IQ implement terminator adapter	75529

FM-1000 / Field-IQ cab kit / Seed monitoring / Rate and Section Control

Connecting the FM-1000 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.

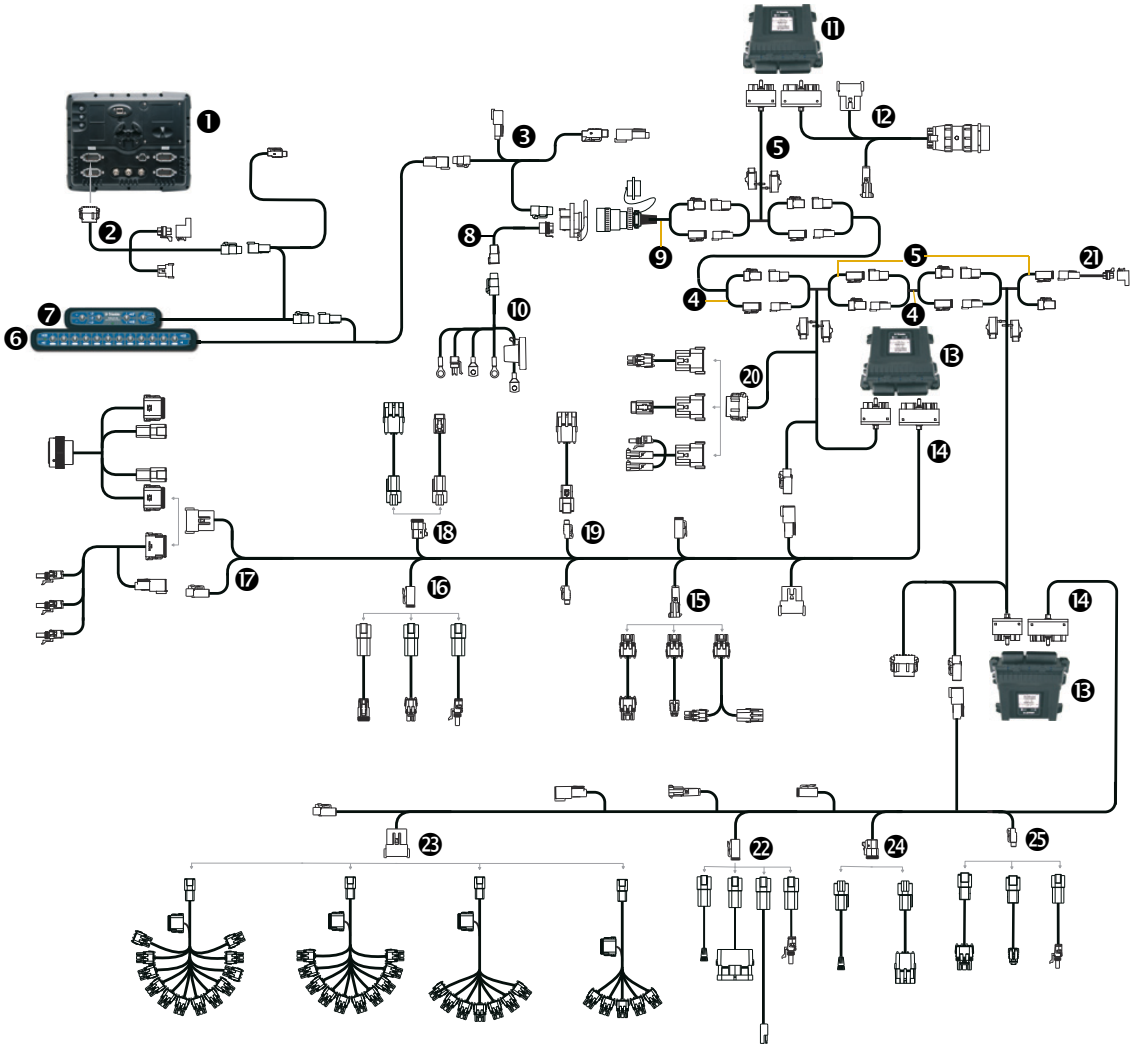


Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	Display to Field-IQ cable	75834
❸	Cab to hitch CAN cable	77368
❹	CAN/Power extension cable	75528-XX
❺	Cable Assy, rate/section module tee	75526
❻	Field-IQ 12-section switchbox (optional)	75060-01
❼	Field-IQ master switchbox	75050-01
❽	Powell quick disconnect, tractor side (optional)	77413
❾	Implement harness (Powell adapter), implement side (optional)	77611-01
❿	Power to cab cable	76941
⓫	Seed Monitoring Module (SMM)	76774-05

Item	Description	Trimble part number
⓬	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
⓭	Rate and section control module)	75774-00
⓮	Field-IQ rate and section implement adapter	80540
⓯	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
⓰	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
⓱	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
⓲	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
⓳	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
⓴	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

FM-1000 / Field-IQ cab kit / Seed monitoring / Rate and Section Control/ Liquid Control

Connecting the FM-1000 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.



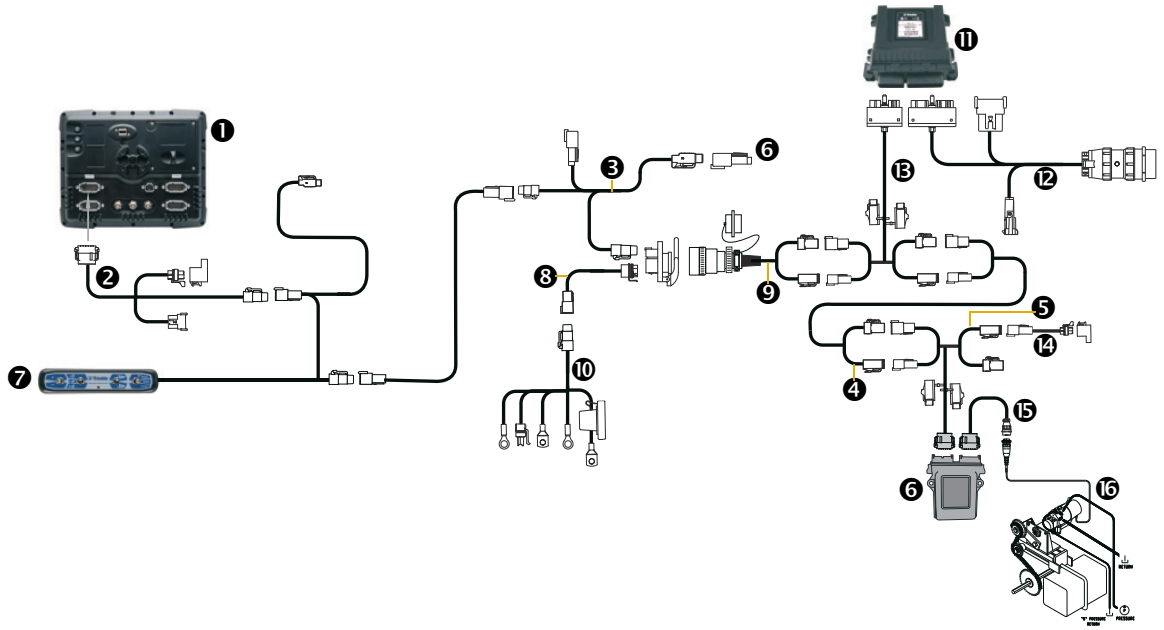
Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	Display to Field-IQ cable	75834
❸	Cab to hitch CAN cable	77368
❹	CAN/Power extension cable	75528-XX
❺	Cable Assy, rate/section module tee	75526
❻	Field-IQ 12-section switchbox (optional)	75060-01
❼	Field-IQ master switchbox	75050-01
❽	Powell quick disconnect, tractor side (optional)	77413

Item	Description	Trimble part number
❾	Implement harness (Powell adapter), implement side (optional)	77611-01
❿	Power to cab cable	76941
⓫	Seed Monitoring Module (SMM)	76774-05
⓬	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
⓭	Rate and section control module	75774-00
⓮	Field-IQ rate and section implement adapter	80540
⓯	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
⓰	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
⓱	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
⓲	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
⓳	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
⓴	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
❷❷	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
❷❸	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
❷❹	Flowmeter adapter	
	Field-IQ to Raven flowmeter adapter	80584
	Field-IQ to Dickey-john encoder/flowmeter	80539
❷❺	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

FM-1000 / Field-IQ Cab Kit / Seed Monitoring / Rawson PAR 2 Seeding

Connecting the FM-1000 integrated display to the Field-IQ cab kit with the Seed Monitoring Module and Rawson PAR 2 Control System.

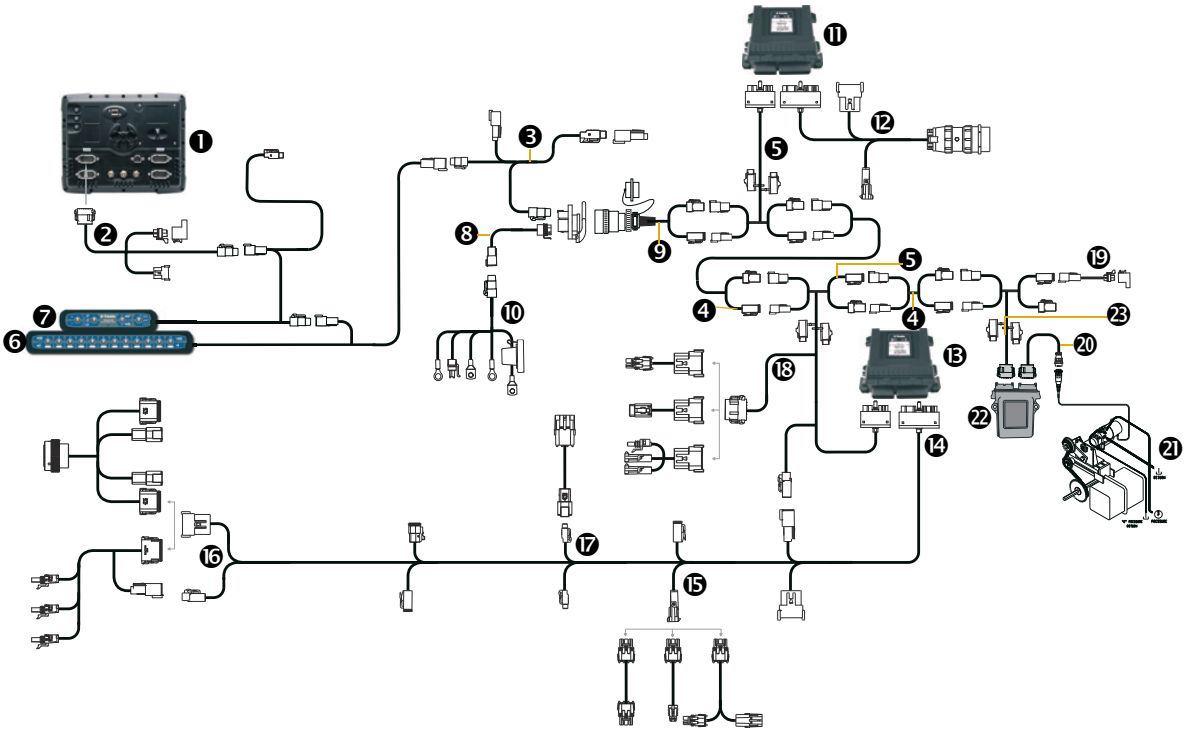


Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	Display to Field-IQ cable	75834
❸	Cab to hitch CAN cable	77368
❹	CAN/Power extension cable	75528-XX
❺	Rawson Module Tee, Field-IQ	75527
❻	Rawson Control Module	75070-00
❼	Field-IQ master switchbox	75050-01
❽	Powell quick disconnect, tractor side (optional)	77413
❾	Implement harness (Powell adapter), implement side (optional)	77611-01
❿	Power to cab cable	76941
⓫	Seed Monitoring Module (SMM)	76774-05
⓬	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
⓭	Cable Assy, Rate/section module tee	75526
⓮	Field-IQ Implement Terminator Adapter	75529

Item	Description	Trimble part number
⓯	Rawson motor CPC to DTM cable	75531
⓰	Rawson PAR 2 motor	300499

FM-1000/Field-IQ Cab Kit / Seed Monitoring / Rawson PAR 2 Seeding / Row Section Control

Connecting the FM-1000 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
❶	FM-1000 integrated display	93100-01
❷	Display to Field-IQ cable	75834
❸	Cab to hitch CAN cable	77368
❹	CAN/Power extension cable	75528-XX
❺	Cable Assy, rate/section module tee	75526
❻	Field-IQ 12-section switchbox (optional)	75060-01
❼	Field-IQ master switchbox	75050-01
❽	Powell quick disconnect, tractor side (optional)	77413
❾	Implement harness (Powell adapter), implement side (optional)	77611-01
❿	Power to cab cable	76941
⓫	Seed Monitoring Module (SMM)	76774-05

Item	Description	Trimble part number
⓬	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
⓭	Section control module (II)	75774-10
⓮	Field-IQ rate and section implement adapter	80540
⓯	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
⓰	Row section control adapter	
	Field-IQ to Tru Count breakout adapter	81693
	John Deere row command adapter cable (non-DB series)	82670
⓱	Vacuum / Pressure sensor adapter	
	Field-IQ to John Deere vacuum sensor	82744
	Trimble pressure sensor adapter	54618
⓲	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
⓳	Field-IQ implement terminator adapter	75529
⓴	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

CHAPTER 7

Connecting to the GreenSeeker System

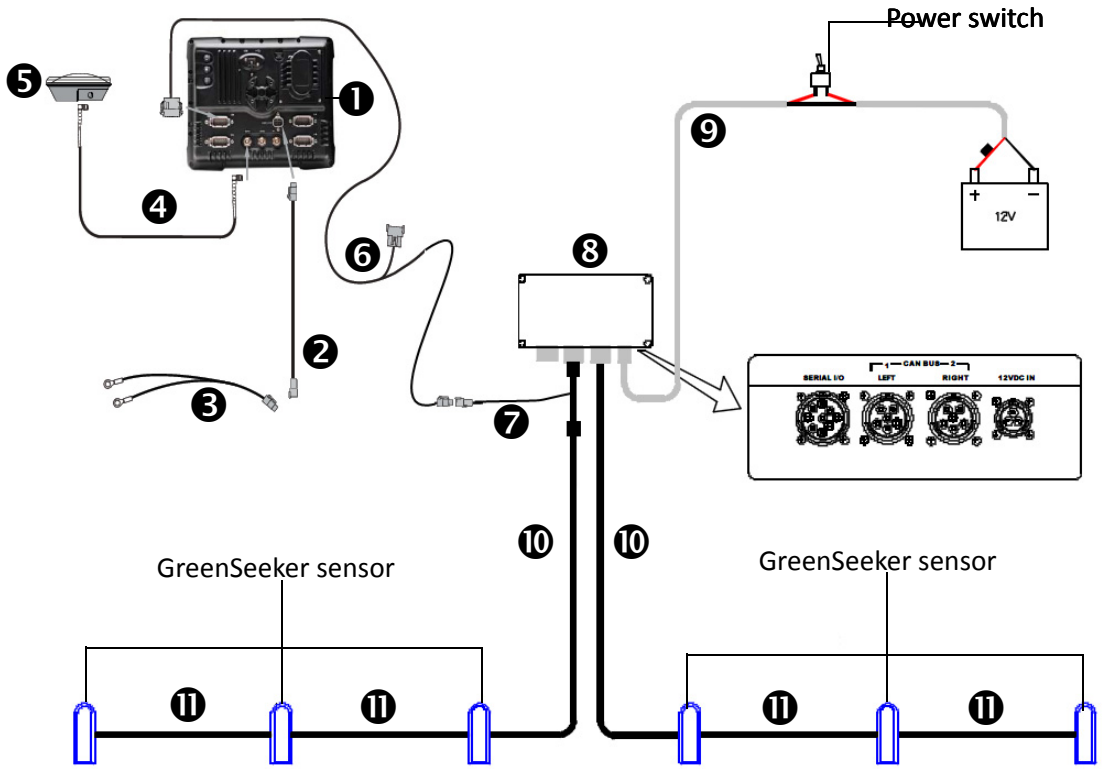
In this chapter:

- FM-1000 / GreenSeeker

This chapter shows how to connect the FM-1000 integrated display to the GreenSeeker® variable rate application and mapping system.

FM-1000 / GreenSeeker

This figure shows how to connect the FM-1000 integrated display with the GreenSeeker system, while using WAAS or EGNOS corrections.



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	Display to CAN with port replicator	75407
❼	GreenSeeker to display cable	77704
❽	RT200 interface module	900-1-047-EM
❾	30' RT200 power cable	400-1-276-EM
❿	20' RT200 interface module	400-1-277-EM
⓫	20' RT200 sensor cable	400-1-265-240-EM

CHAPTER 8

Connecting to the EZ-Boom System

In this chapter:

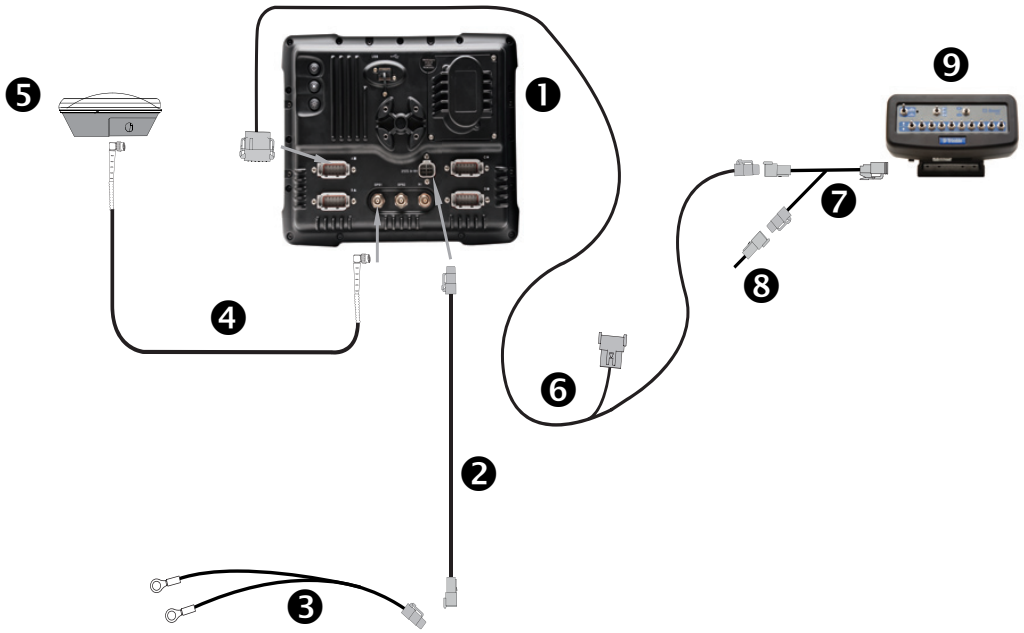
- Manual guidance FM-1000 / EZ-Boom
- FM-1000 / Autopilot / EZ-Boom / RTK corrections
- FM-1000 / Autopilot / EZ-Boom / TrueTracker / RTK corrections
- FM-1000 / EZ-Boom / EZ-Steer / RTK corrections / power bus
- FM-1000 / EZ-Boom / EZ-Steer / RTK corrections / external power leads

This chapter shows the different ways to connect the FM-1000 integrated display to the EZ-Boom® automated application control system.

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

Manual guidance FM-1000 / EZ-Boom

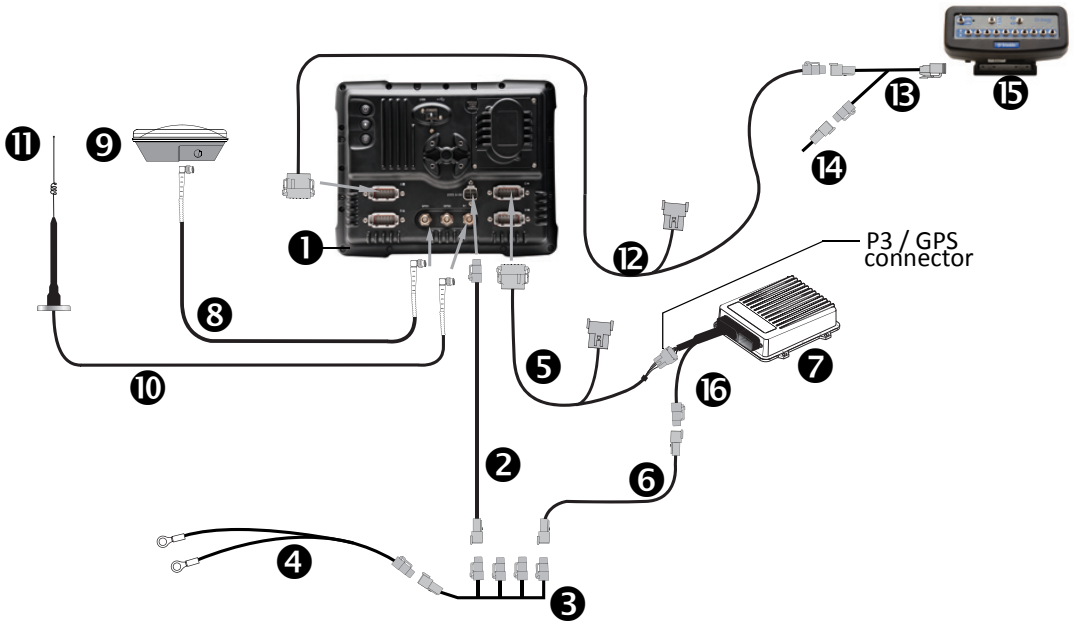
This figure shows how to connect the FM-1000 integrated display with the EZ-Boom system, while using manual guidance:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	FM-1000 to CAN cable with port replicator	75407
❼	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
❽	CAN terminator	59783
❾	EZ-Boom controller	59898-00

FM-1000 / Autopilot / EZ-Boom / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system and the EZ-Boom system, to use RTK corrections:

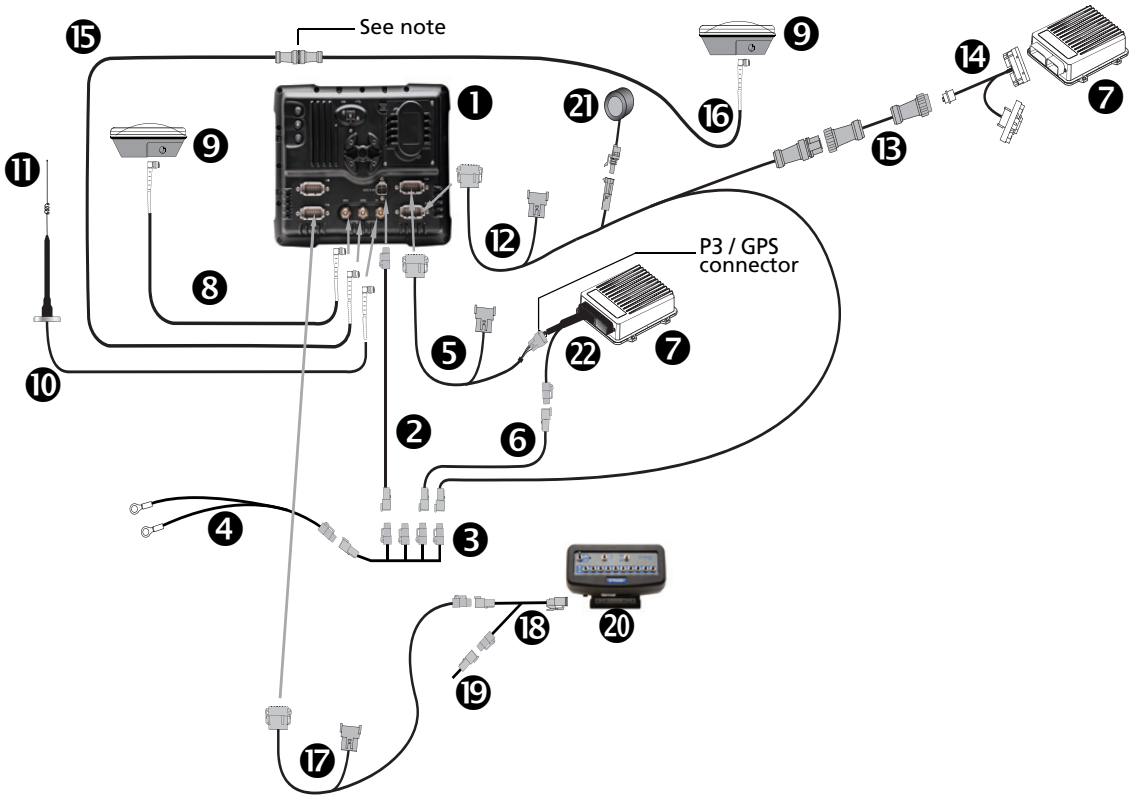


CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓰ will result in damage to the FM-1000/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20 ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to CAN cable with port replicator	75407
⓭	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
⓮	CAN terminator	59783
⓯	EZ-Boom controller	59898-00
⓰	Main NavController II cable	54601

FM-1000 / Autopilot / EZ-Boom / TrueTracker / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system and TrueTracker and EZ-Boom systems, while using RTK corrections:



CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ㉒ will result in damage to the FM-1000/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
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II (x2)	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449

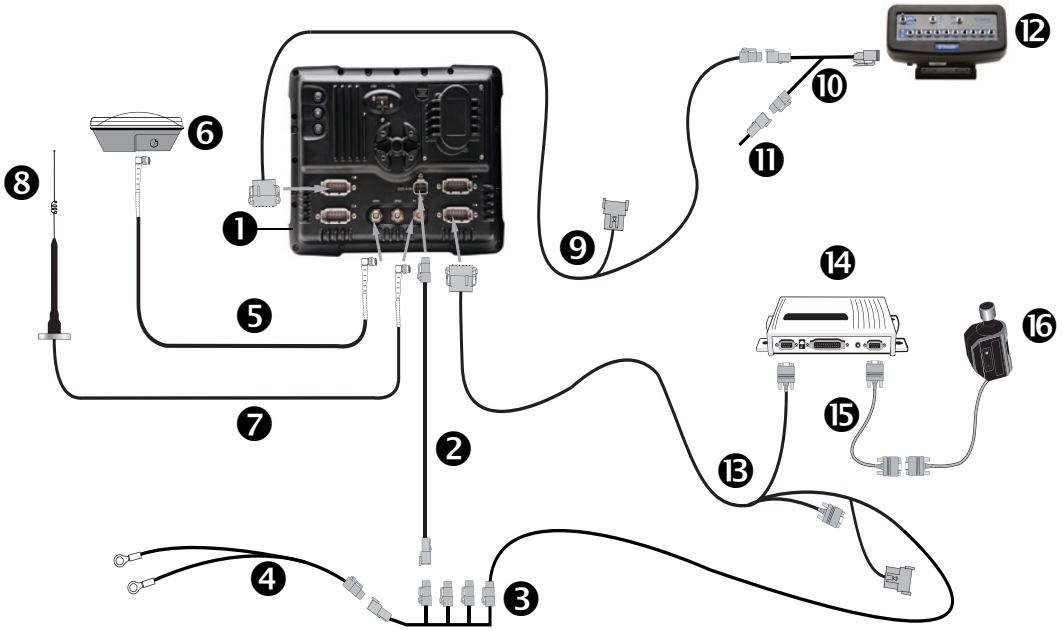
Item	Description	Trimble part number
❾	Ag25 GNSS antenna (x2)	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to TrueTracker cable	67092
⓭	Implement extension cable	0793-8740-450
⓮	FM-1000 to NavController II and TrueTracker main harness	67612
⓯	Coaxial 160" N/f + TNC/m-ra cable	68295
⓰	Coaxial 480" N/m + TNC/m-ra cable	67472
⓱	FM-1000 to CAN cable with port replicator	75407
⓲	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
⓳	CAN terminator	59783
⓴	EZ-Boom controller	59898-00
㉑	Sonalert	43104
㉒	Main NavController II cable	54601

FM-1000 / EZ-Boom / EZ-Steer / RTK corrections / power bus

This figure shows how to connect the FM-1000 integrated display with the EZ-Steer and EZ-Boom systems to use RTK corrections:

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 FM-1000 - Modifying EZ-Steer Cable P/N 62974 For Use With FM-1000.*



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	FM-1000 basic power cable	67258
❺	8 m GPS TNC/TNC RT angle cable	50449
❻	Ag25 GNSS antenna	77038-00
❼	NMO to TNC 20 ft antenna cable and base	62120
❽	900 MHz radio antenna kit	22882-10
❾	FM-1000 to CAN cable with port replicator	75407
❿	EZ-Boom 2010 to FM-1000 display and EZ-Guide 500 cable	61437
⓫	CAN terminator	59783
⓬	EZ-Boom controller	59898-00
⓭	FM-1000 to EZ-Steer cable	75742

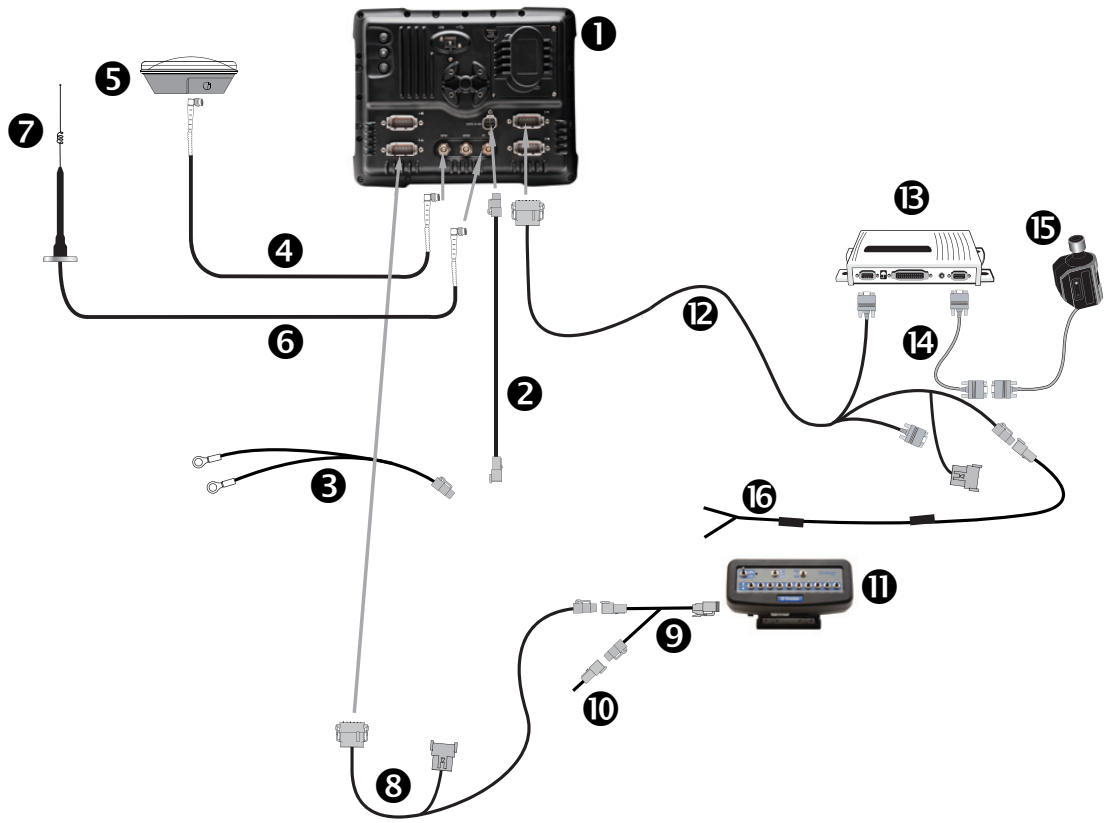
Item	Description	Trimble part number
⓮	EZ-Steer controller	53348-10
⓯	EZ-Steer motor cable	62257
⓰	EZ-Steer motor	53058-00

FM-1000 / EZ-Boom / EZ-Steer / RTK corrections / external power leads

This figure shows how to connect the FM-1000 integrated display with the EZ-Boom and EZ-Steer systems with external power leads to use RTK corrections.

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 FM-1000 - Modifying EZ-Steer Cable P/N 62974 For Use With FM-1000.*



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	NMO to TNC 20 ft antenna cable and base	62120
❼	900 MHz radio antenna kit	22882-10
❽	FM-1000 to CAN cable with port replicator	75407
❾	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
❿	CAN terminator	59783

Item	Description	Trimble part number
⓫	EZ-Boom Controller	59898-00
⓬	FM-1000 to EZ-Steer cable	75742
⓭	EZ-Steer controller	53348-10
⓮	EZ-Steer motor cable	62257
⓯	EZ-Steer motor	53058-00
⓰	Unterminated power cable	75743

CHAPTER 9

Connecting to Radar Output and Serial Control

In this chapter:

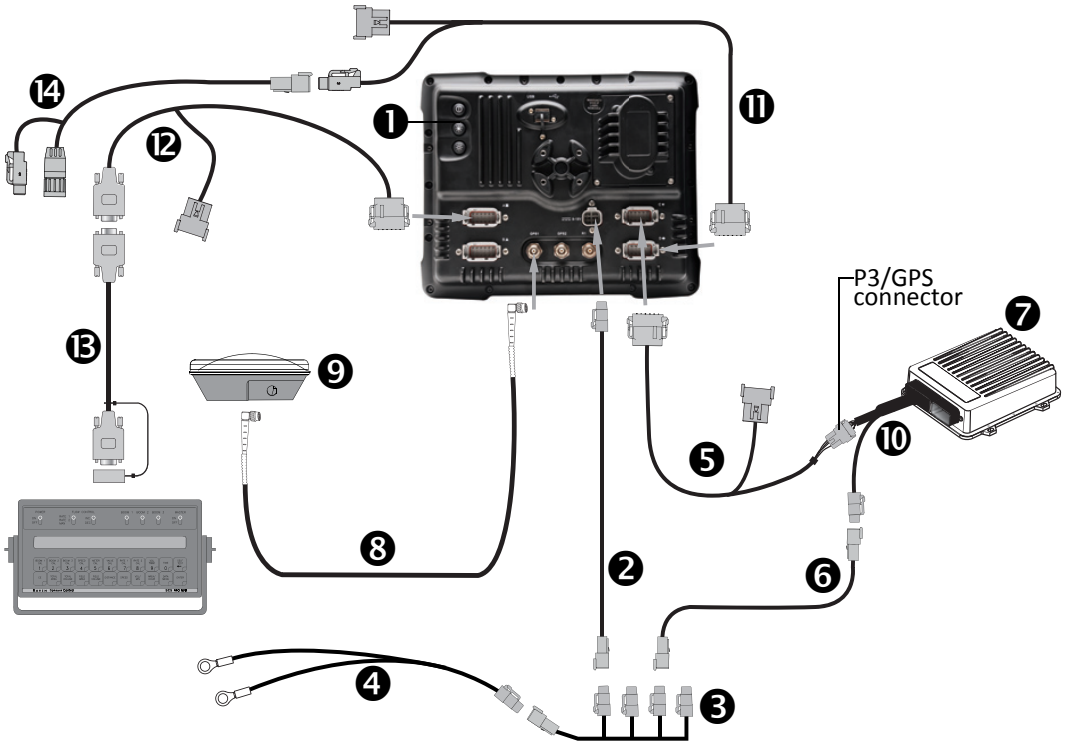
- FM-1000 / Autopilot / radar output / serial variable rate for Raven SCS400 or SCS600
- FM-1000 / Autopilot / radar output / serial variable rate for Rawson
- FM-1000 / Autopilot / radar output / serial variable rate
- FM-1000 / Autopilot / serial connection for Hardi 5500 controller

This chapter shows the different ways to connect the FM-1000 integrated display to equipment from third-party equipment for radar output and serial control.

⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 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.

FM-1000 / Autopilot / radar output / serial variable rate for Raven SCS400 or SCS600

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, radar output, and serial variable rate for Raven SCS400 or SCS600:



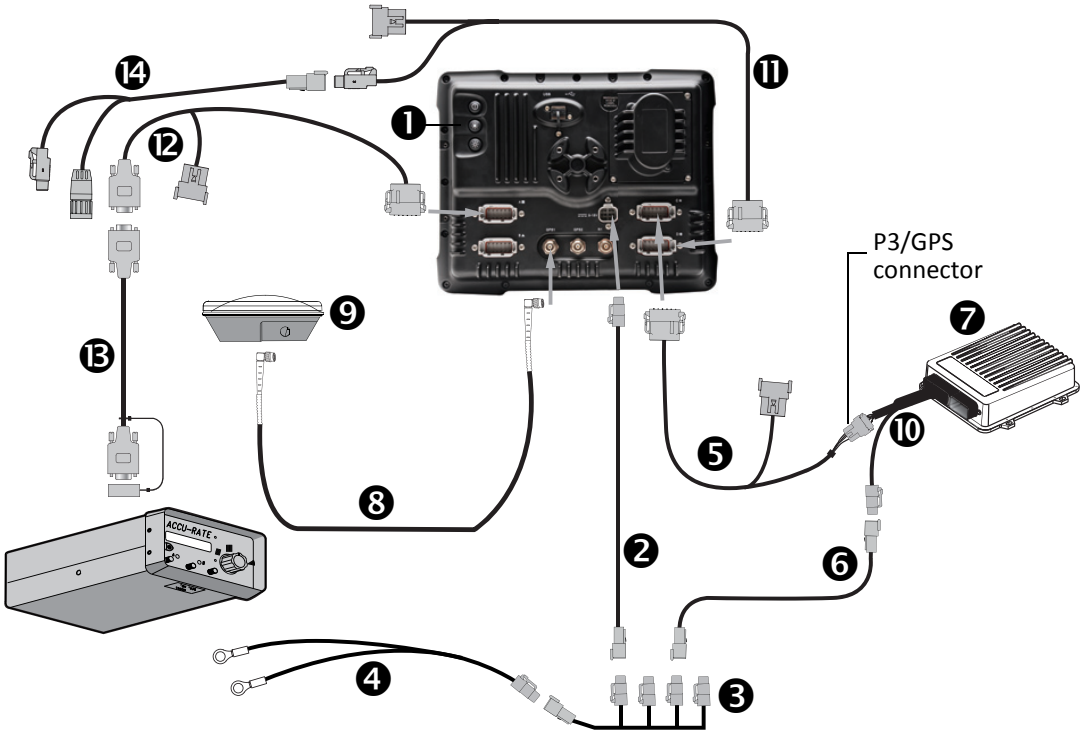
⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ❿ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	Main NavController II cable	54601
⓫	FM-1000 universal radar adaptor	68461
⓬	FM-1000 to DE9, RS232	67091

Item	Description	Trimble part number
⓭	FM-1000 / FM-1000 / EZ-Guide 500 to Raven variable rate adaptor	69729
⓮	Cable, radar speed output, Raven	64272

FM-1000 / Autopilot / radar output / serial variable rate for Rawson

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, radar output, and serial variable rate for Rawson systems:



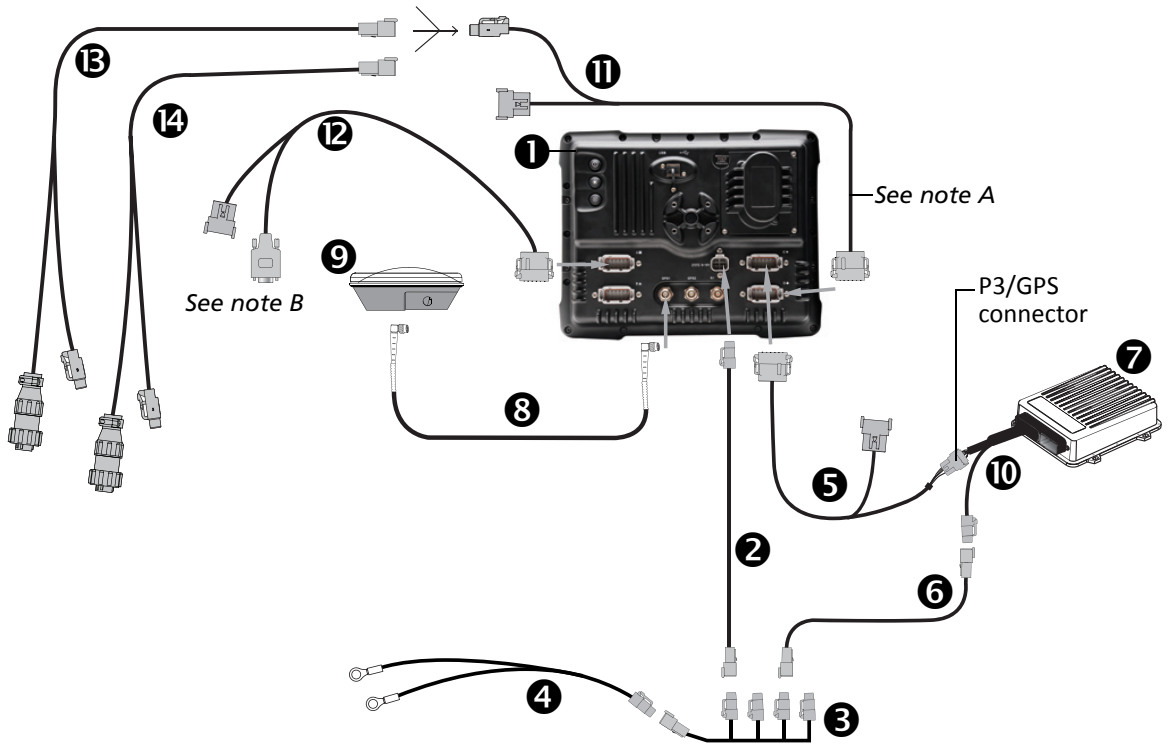
⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ❿ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	Main NavController II cable	54601
⓫	FM-1000 universal radar adaptor	68461
⓬	FM-1000 to DE9, RS232	67091

Item	Description	Trimble part number
⓭	FM-1000 / FM-1000 / EZ-Guide 500 to Rawson variable rate adaptor	69730
⓮	Rawson radar speed output cable	64273

FM-1000 / Autopilot / radar output / serial variable rate

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, radar output, and serial variable rate for a range of third-party systems:



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

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

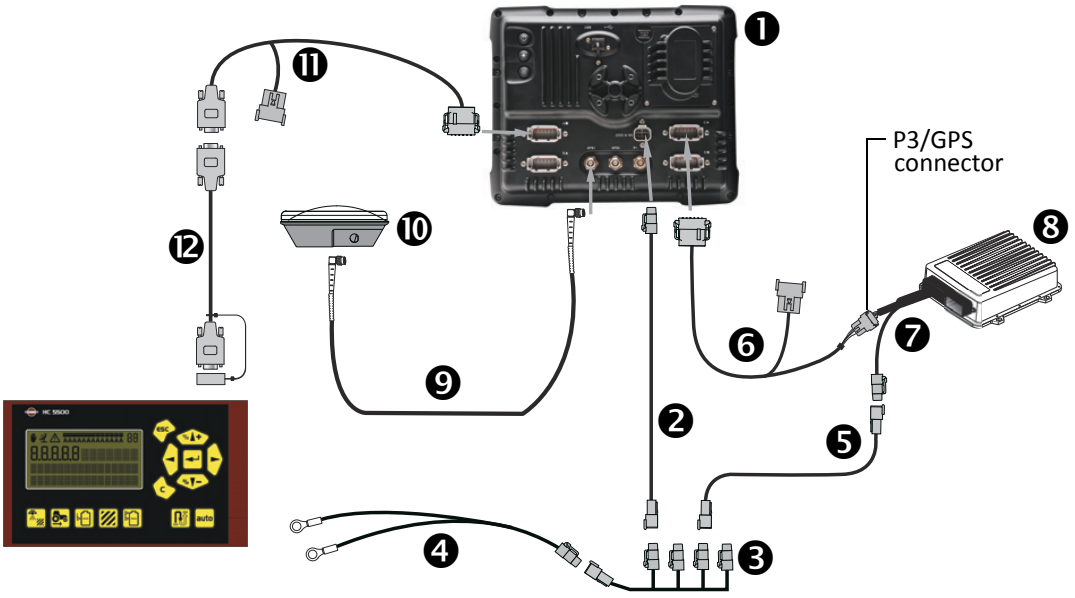
Note – *To rate controller.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00

Item	Description	Trimble part number
❿	Main NavController II cable	54601
⓫	FM-1000 universal radar adaptor	68461
⓬	FM-1000 to DE9, RS232	67091
⓭	Cable, radar speed output, DICKEY-john	64273
⓮	Cable, radar speed output, Hiniker	64274

FM-1000 / Autopilot / serial connection for Hardi 5500 controller

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, radar output, and serial variable rate for a Hardi 5500 controller:



CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❻ to the P4 or P12 connector of the NavController II harness ❼ 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 FM-1000 integrated display, it must have firmware version 3.16 or greater installed and have a JOBCOM control box connected.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	2 pin DTM to 2 pin DT power adaptor	67095
❻	FM-1000 to NavController II cable with port replicator	75741
❼	Main NavController II cable	54601
❽	NavController II	55563-00
❾	8 m GPS TNC/TNC RT angle cable	50449
❿	Ag25 GNSS antenna	77038-00
⓫	FM-1000 to DE9, RS232	67091
⓬	DB9(F) to DB9(F) null modem cable	59043

CHAPTER 10

Connecting to the Tru Application Control System

In this chapter:

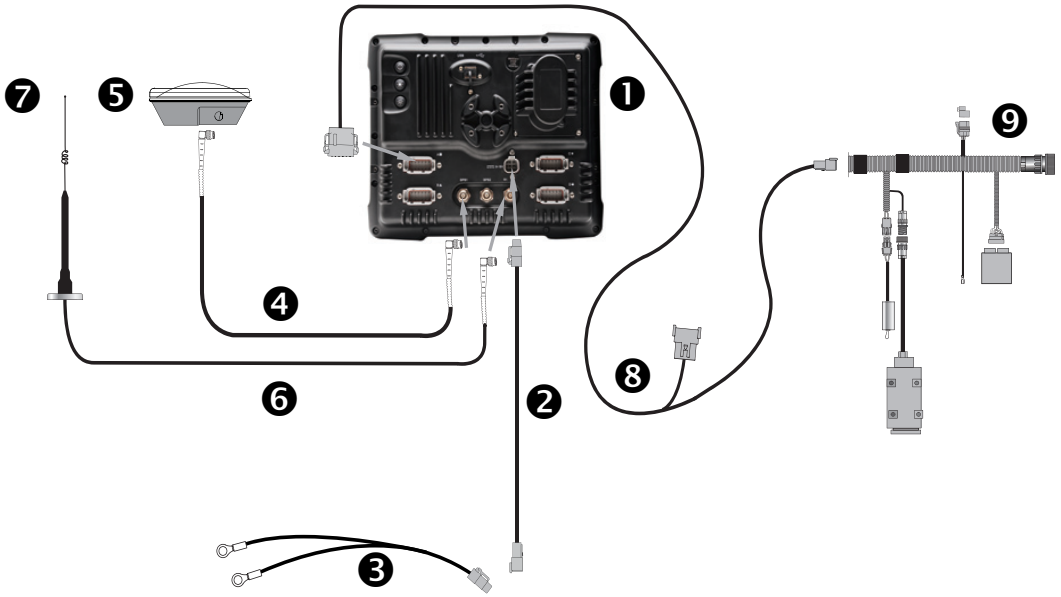
- Manual guidance FM-1000 / Tru Application Control
- FM-1000 / Autopilot / Tru Application Control / RTK corrections
- FM-1000 / Autopilot / Tru Application Control / TrueTracker / RTK corrections

This chapter shows the different ways to connect the FM-1000 integrated display to the Tru Application Control™ system.

CAUTION – Connecting the Port Replicator on the FM-1000 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 FM-1000 / Tru Application Control

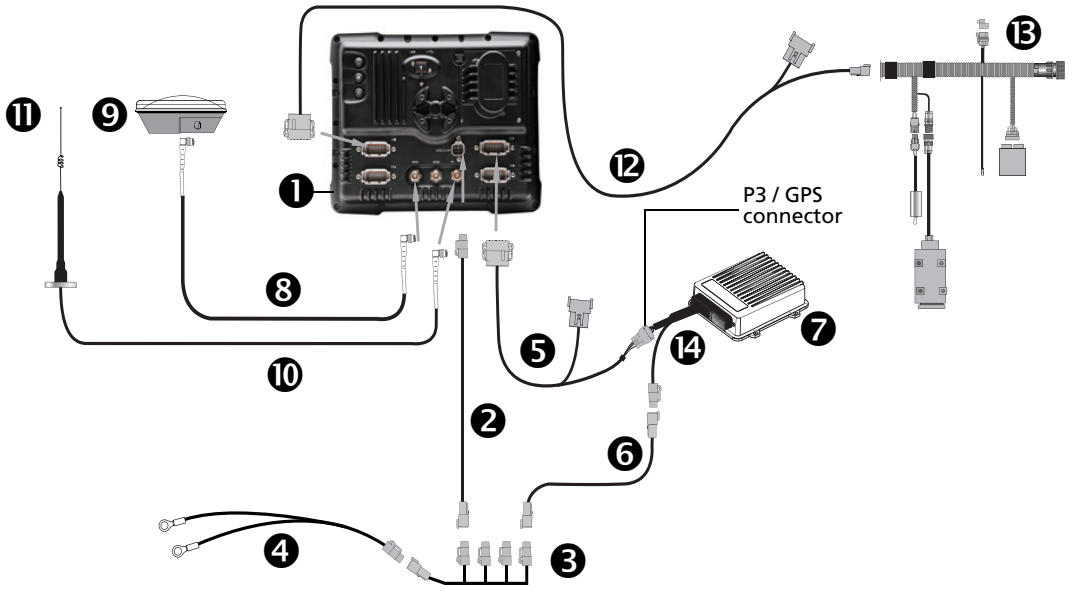
This figure shows how to connect the FM-1000 integrated display with the Tru Application Control system, while using manual guidance:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	NMO to TNC 20ft antenna cable and base	62120
❼	900 MHz radio antenna kit	22882-10
❽	FM-1000 to CAN cable with port replicator	75407
❾	Application Control cab harness cable	64909

FM-1000 / Autopilot / Tru Application Control / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system and the Tru Application Control system, to use RTK corrections:

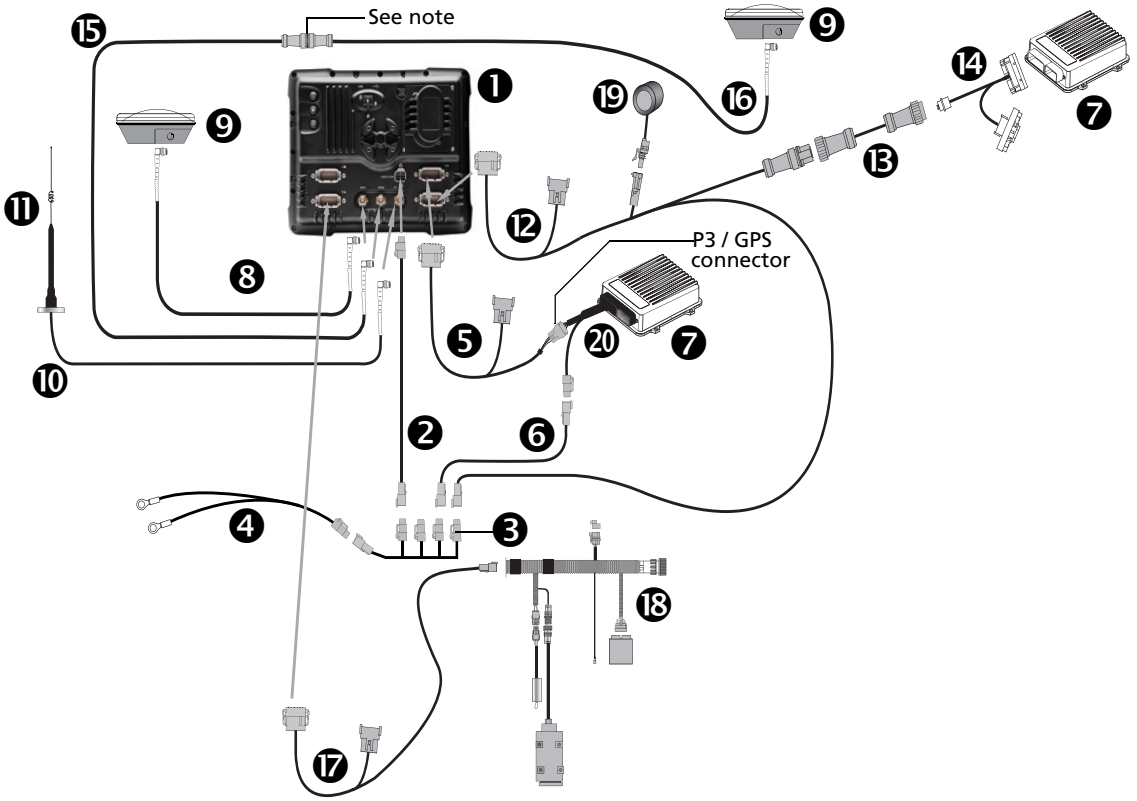


CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓮ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to CAN cable with port replicator	75407
⓭	Tru Application Control cab harness cable	64909
⓮	Main NavController II cable	54601

FM-1000 / Autopilot / Tru Application Control / TrueTracker / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, Tru Application Control, and TrueTracker system, to use RTK corrections:



CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓴ 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
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II (x2)	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	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	FM-1000 to TrueTracker cable	67092
⑬	Implement 10-pin data cable	0793-8740-450
⑭	FM-1000 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	FM-1000 to CAN cable with port replicator	75407
⑱	Tru Application Control cab harness	64909
⑲	Sonalert	43104
⑳	Main NavController II cable	54601

CHAPTER 11

Connecting External Receivers, Radios, and Modems

In this chapter:

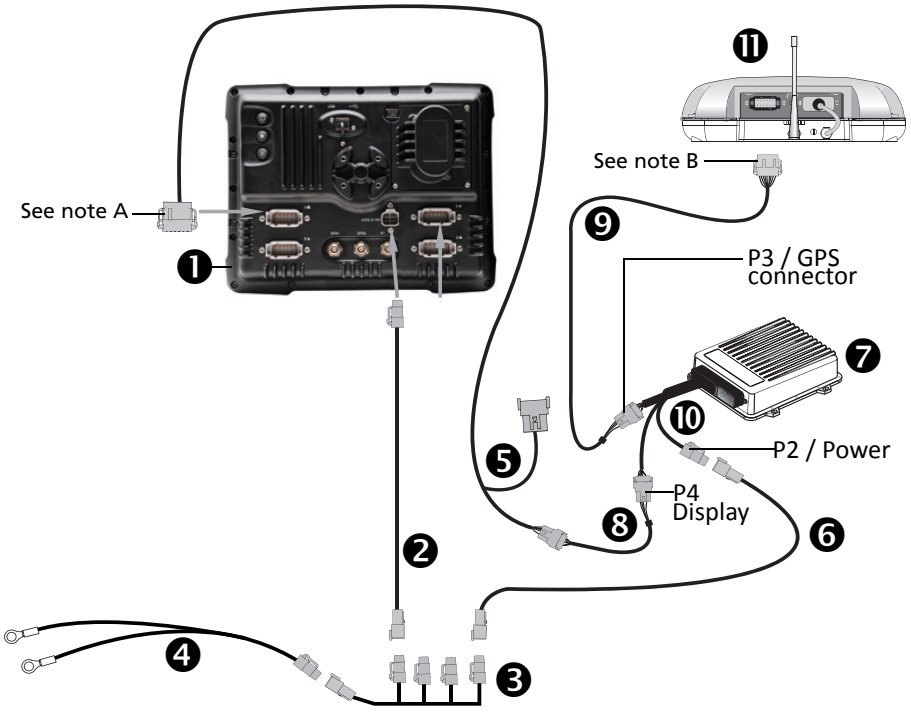
- FM-1000 / Autopilot / AgGPS 252/262
- FM-1000 / TrueGuide or Implement Monitoring with an AgGPS 252/262 external receiver
- FM-1000 / Autopilot / External receiver for Implement Monitoring, TrueGuide, or FieldLevel II
- FM-1000 / Autopilot / Ag3000 VRS corrections
- FM-1000 / Autopilot / Sierra wireless modem
- FM-1000 / Autopilot / DCM-300

This chapter shows the different ways to connect the FM-1000 integrated display to external receivers.

CAUTION – Connecting the Port Replicator on the FM-1000 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.

FM-1000 / Autopilot / *Ag*GPS 252/262

This figure shows how to connect the FM-1000 integrated display with the Autopilot system, while using an *Ag*GPS 252 or an *Ag*GPS 262 receiver:



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

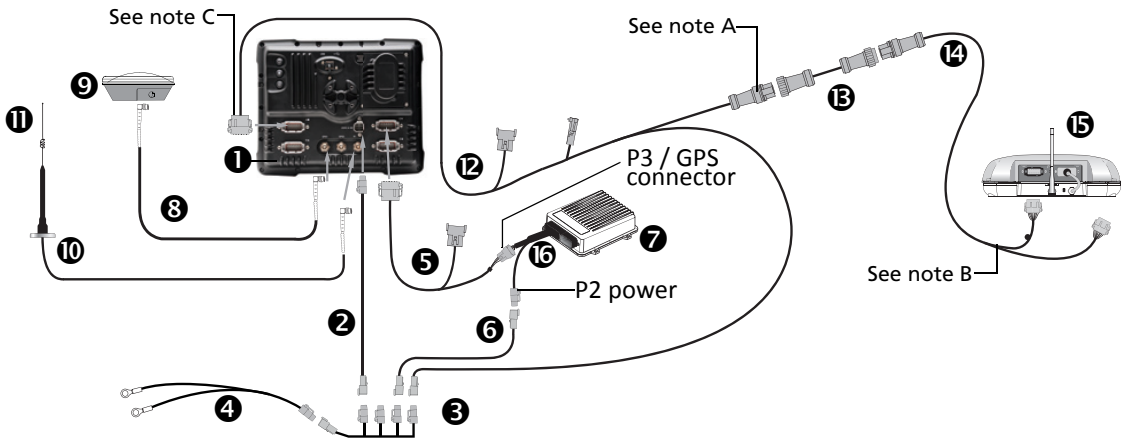
Note – *Connect to port A or port B.*

Note – *Connect to port "A" only.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	Cable assembly, 8-pin to 12-pin adaptor	76442
❾	Cable, *Ag*GPS 252/252 to NavController II	54608
❿	Main NavController II cable	54601
⓫	*Ag*GPS 252/262 receiver	55500-xx

FM-1000 / TrueGuide or Implement Monitoring with an *Ag*GPS 252/262 external receiver

This figure shows how to connect the FM-1000 integrated display with the Autopilot system and TrueGuide system, while using a second external receiver with RTK corrections:



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

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

Note – *Connect to port "A" only.*

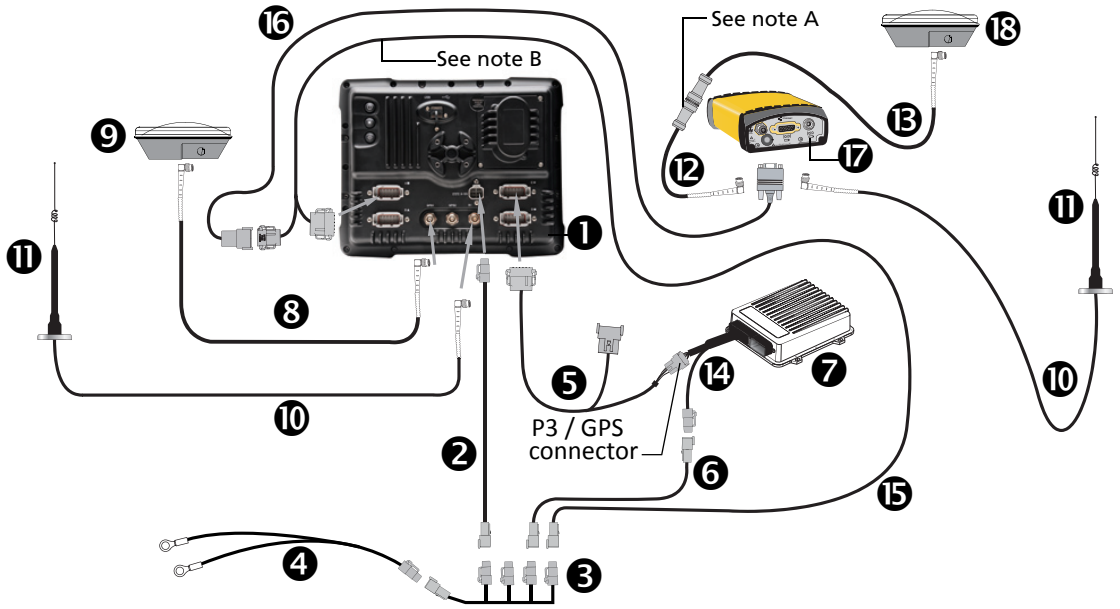
Note – *Connect to port "A" or port "B".*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20 ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to TrueTracker cable	67092
⓭	Implement extension cable	0793-8740-450
⓮	Cable assembly, implement receiver extension	75447

Item	Description	Trimble part number
⓯	*Ag*GPS 252/262 receiver	55500-xx
⓰	Main NavController II cable	54601
⓱	Sonalert	43104

FM-1000 / Autopilot / External receiver for Implement Monitoring, TrueGuide, or FieldLevel II

This figure shows how to connect the FM-1000 integrated display with the Autopilot 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 FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓮ 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.*

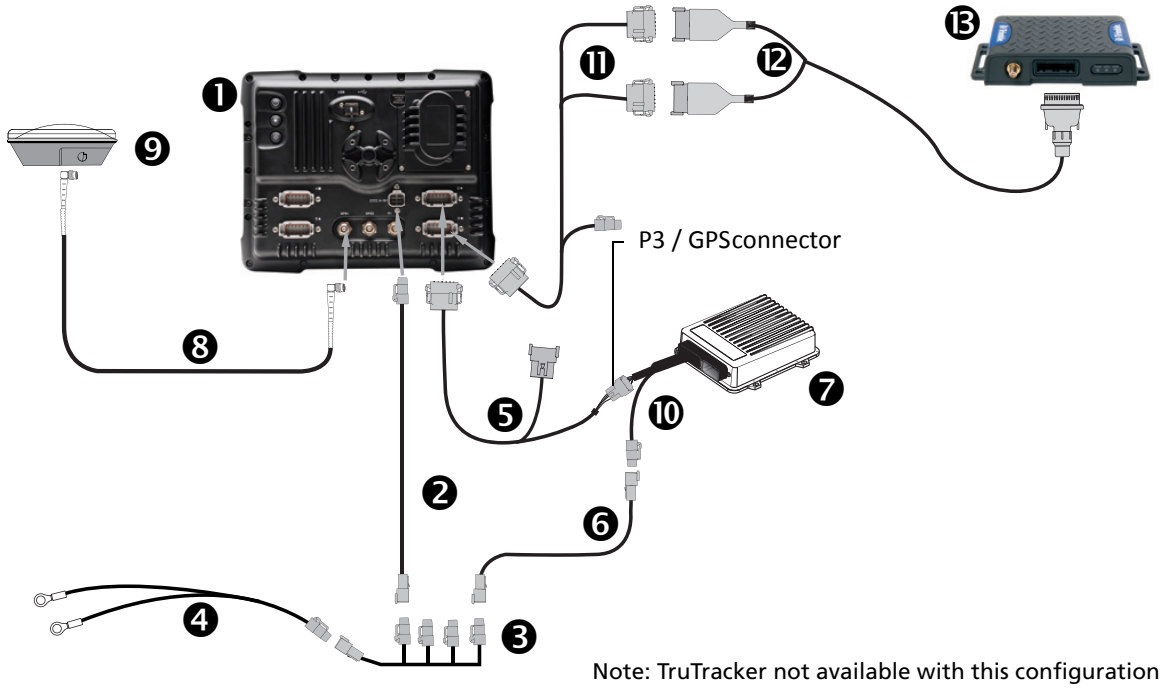
Note – *The receiver adaptor cable ⓯ must be connected to either port "A" or port "B".*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable (x2)	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20ft antenna cable and base (x2)	62120
⓫	900 MHz radio antenna kit (x2)	22882-10

Item	Description	Trimble part number
⓬	Coaxial 160" N/f + TNC/m-ra cable	68295
⓭	Coaxial 480" N/m + TNC/m-ra cable	67472
⓮	Main NavController II cable	54601
⓯	FM-1000 to external receiver adaptor cable	71453
⓰	*Ag*GPS 442 receiver cable	62037
⓱	*Ag*GPS 442 receiver	
⓲	Zephyr model 2 antenna	57970-00

FM-1000 / Autopilot / Ag3000 VRS corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot system while using corrections from the Ag3000 modem.



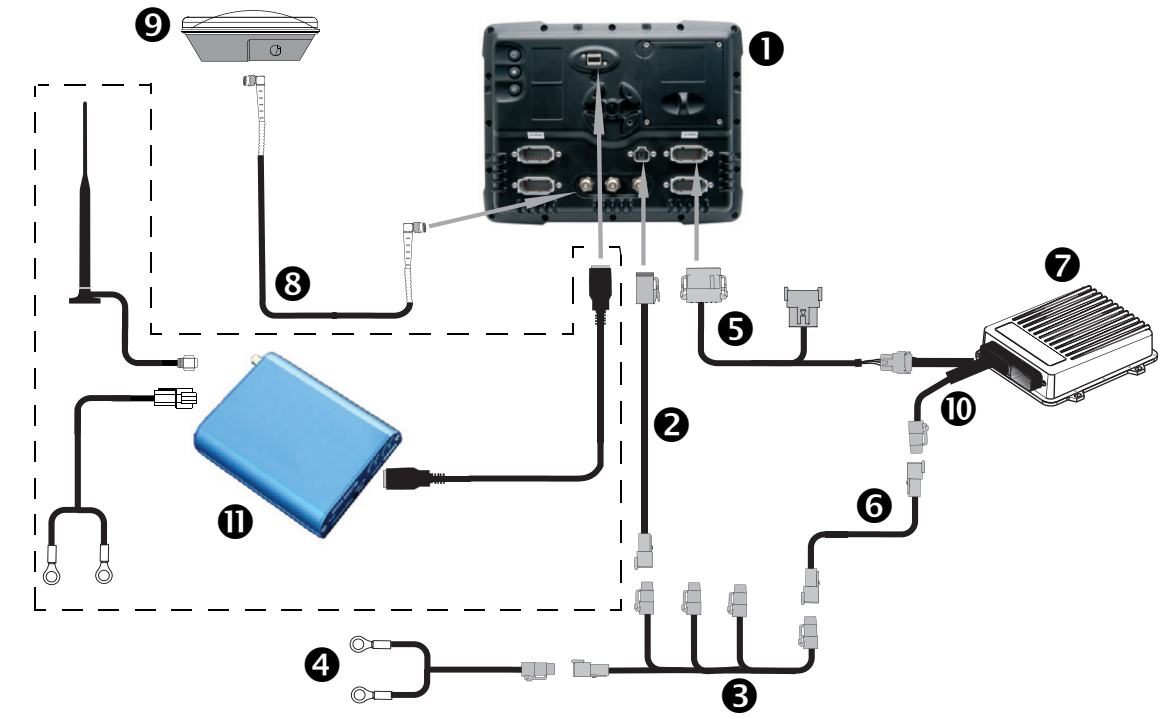
Note: TruTracker not available with this configuration

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

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8m GPS TNC/TNC RT angle cable	76442
❾	Ag25 GNSS antenna	77038-00
❿	Main NavController II cable	54601
⓫	Ag3000 to FM-1000/FM-1000 cable	77273
⓬	Ag3000 break-out cable	70433
⓭	Ag3000 modem	80300

FM-1000 / Autopilot / Sierra wireless modem

Connecting the FM-1000 integrated display with the Autopilot system and the Sierra wireless modem:



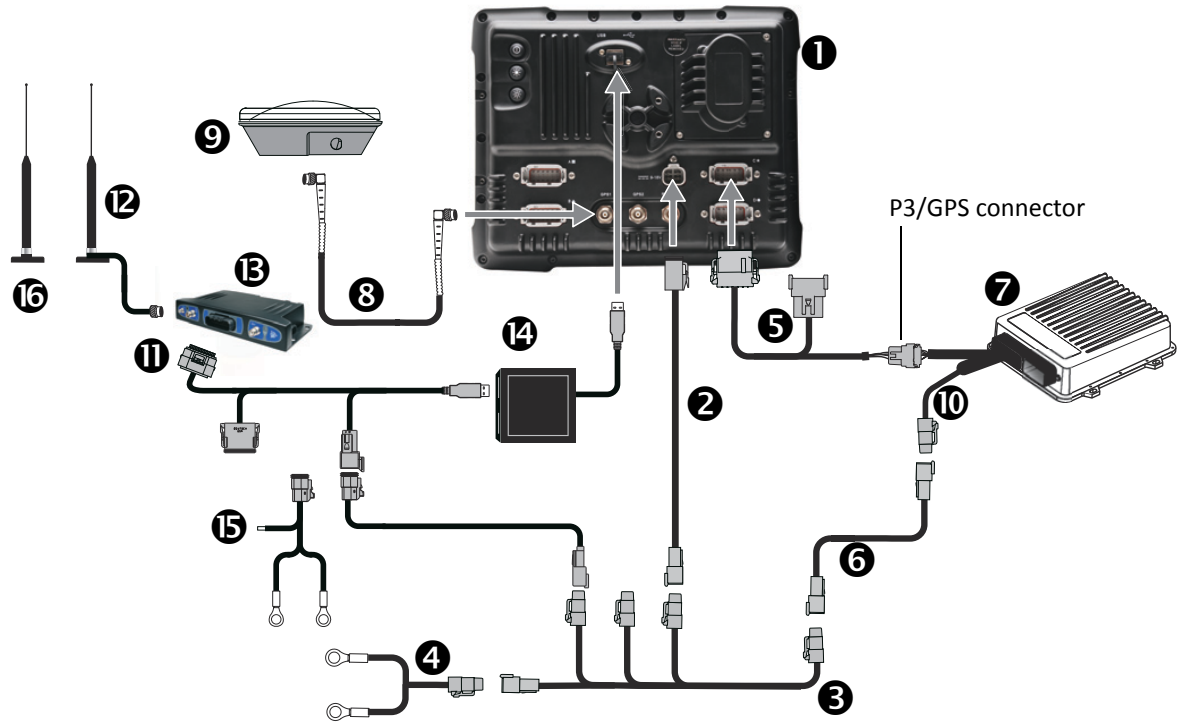
⚠ **CAUTION –** Connecting the Port Replicator on the FmX / FM-1000 display to NavController II cable g to the P4 or P12 connector of the NavController II harness l will result in damage to the display and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8m GPS TNC/TNC RT angle cable	76442
❾	Ag25 GNSS antenna	77038-00

Item	Description	Trimble part number
⑩	Main NavController II cable	54601
⑪	Sierra Wireless Modem kit: • Antenna • Mag mount base • USB cable ***Note –*** *Part number dependant on wireless provider.*	71116-xx

FM-1000 / Autopilot / DCM-300

Connecting the FM-1000 integrated display with the Autopilot system and the DCM-300 wireless modem:



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

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8m GPS TNC/TNC RT angle cable	76442
❾	Ag25 GNSS antenna	77038-00
❿	Main NavController II cable	54601
⓫	DCM-300 to display cable	82026
⓬	DCM-300 cellular antenna	72122 + 51227
⓭	DCM-300 modem	80632-xx

Item	Description	Trimble part number
⓮	USB hub ***Note –*** *Must be used.*	82026
⓯	DCM-300 power harness: Use either the powerbus or direct power leads harness.	82026
⓰	DCM-300 wireless antenna	83700-05

CHAPTER 12

Connecting the Yield Monitoring System

In this chapter:

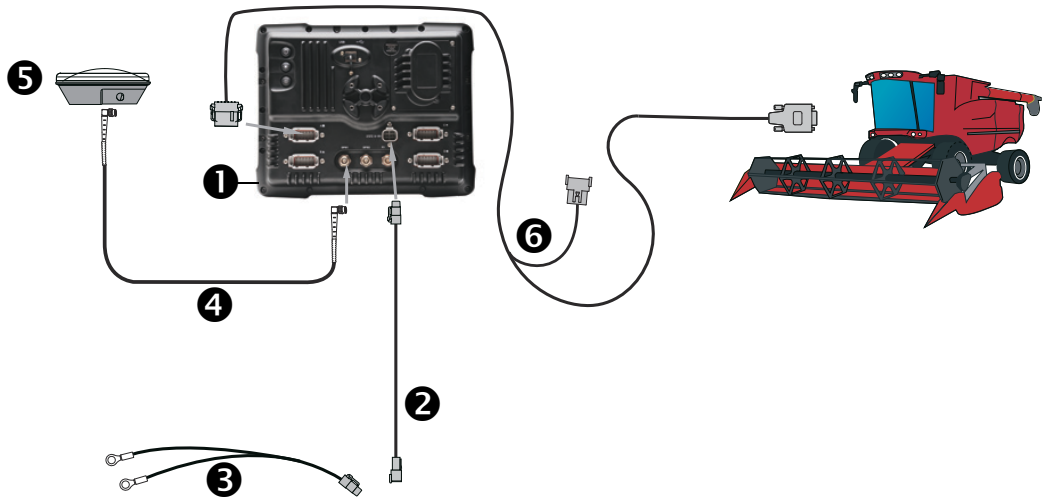
- FM-1000 / AgLeader YM2000 yield monitoring system
- FM-1000 / John Deere 9x60 / 9x70 yield monitoring system

This chapter shows the different ways to connect the FM-1000 integrated display to a Yield Monitoring system.

> ⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 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.

FM-1000 / AgLeader YM2000 yield monitoring system

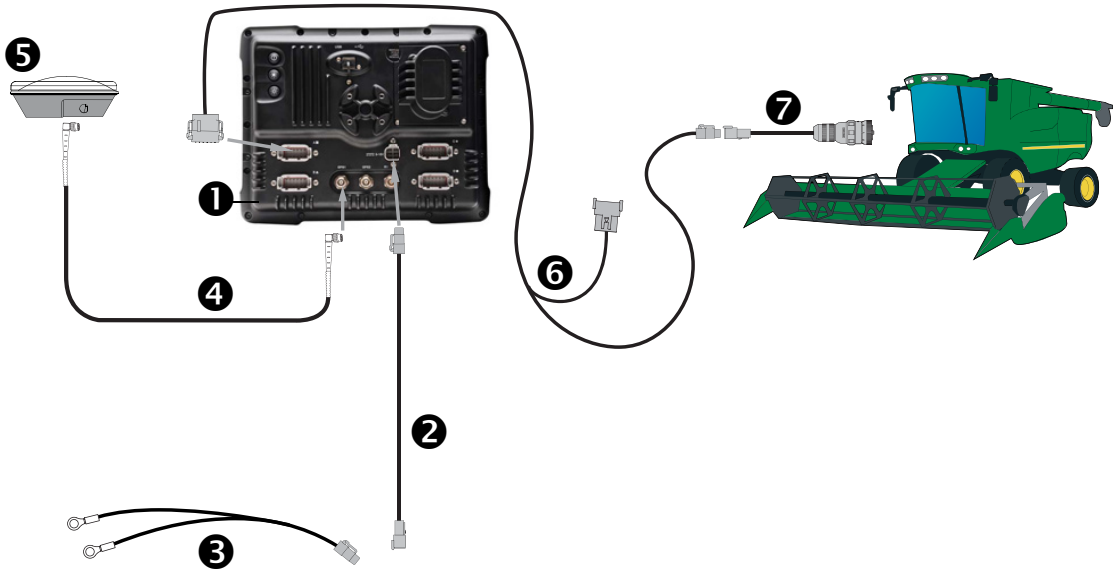
This figure shows how to connect the FM-1000 integrated display to the AgLeader YM 2000 yield monitoring system:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	Display to DE9 RS232 cable	67091

FM-1000 / John Deere 9x60 / 9x70 yield monitoring system

This figure shows how to connect the FM-1000 integrated display to the John Deere 9x60 or 9x70 yield monitoring system:

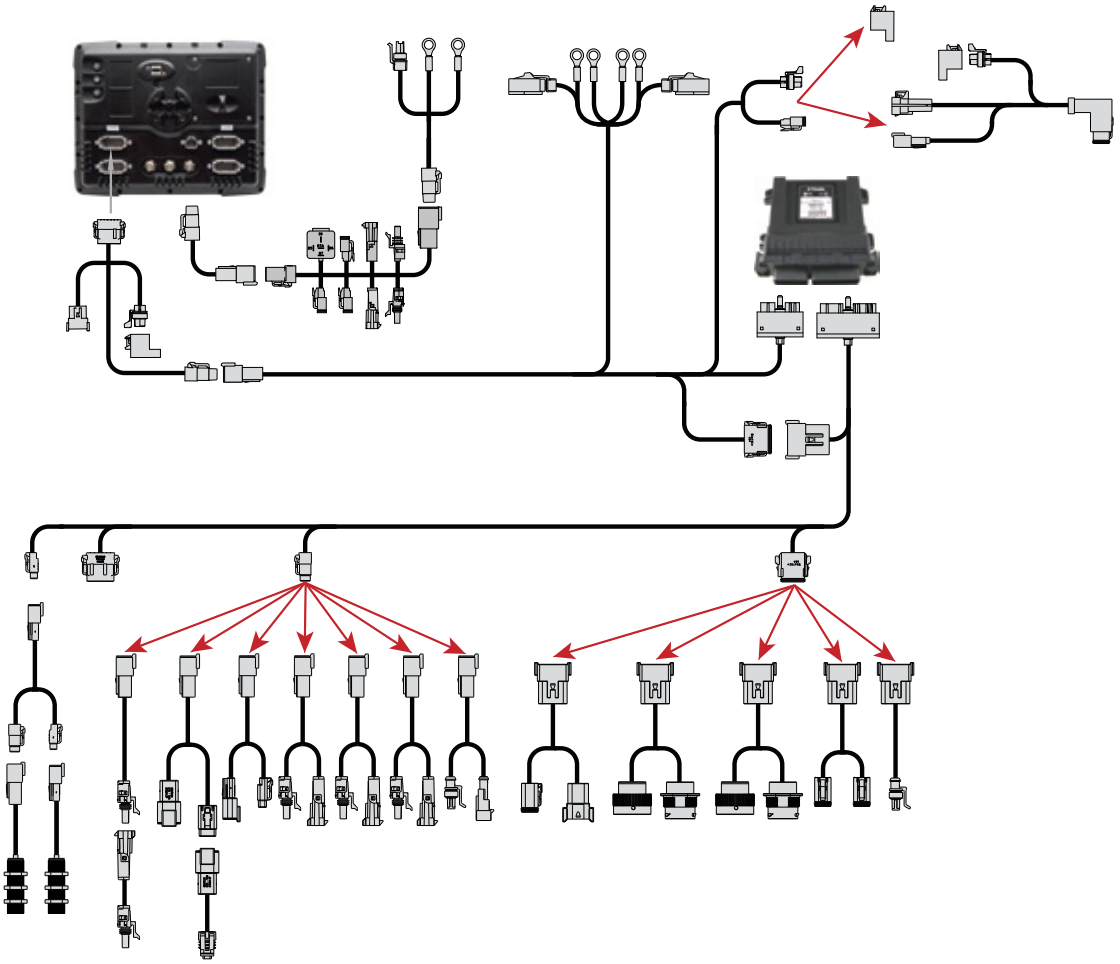


Note – *Connect only to port A on the FM-1000 integrated display; when using yield monitoring do not connect another CAN device to the occupied port.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	FM-1000 to CAN cable with port replicator	75407
❼	Display to John Deere 9x70, or 9x60 non-ATR Display to John Deere 9x60 ATR	76509 77692

FM-1000 / Yield Monitoring system

This figure shows how to connect the FM-1000 integrated display to the Yield Monitoring system:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	FM-1000 basic power cable	67258
❹	8 m GPS TNC/TNC RT angle cable	50449
❺	Ag25 GNSS antenna	77038-00
❻	FM-1000 to CAN cable with port replicator	75407
❼	Display to John Deere 9x70, or 9x60 non-ATR Display to John Deere 9x60 ATR	76509 77692

CHAPTER 13

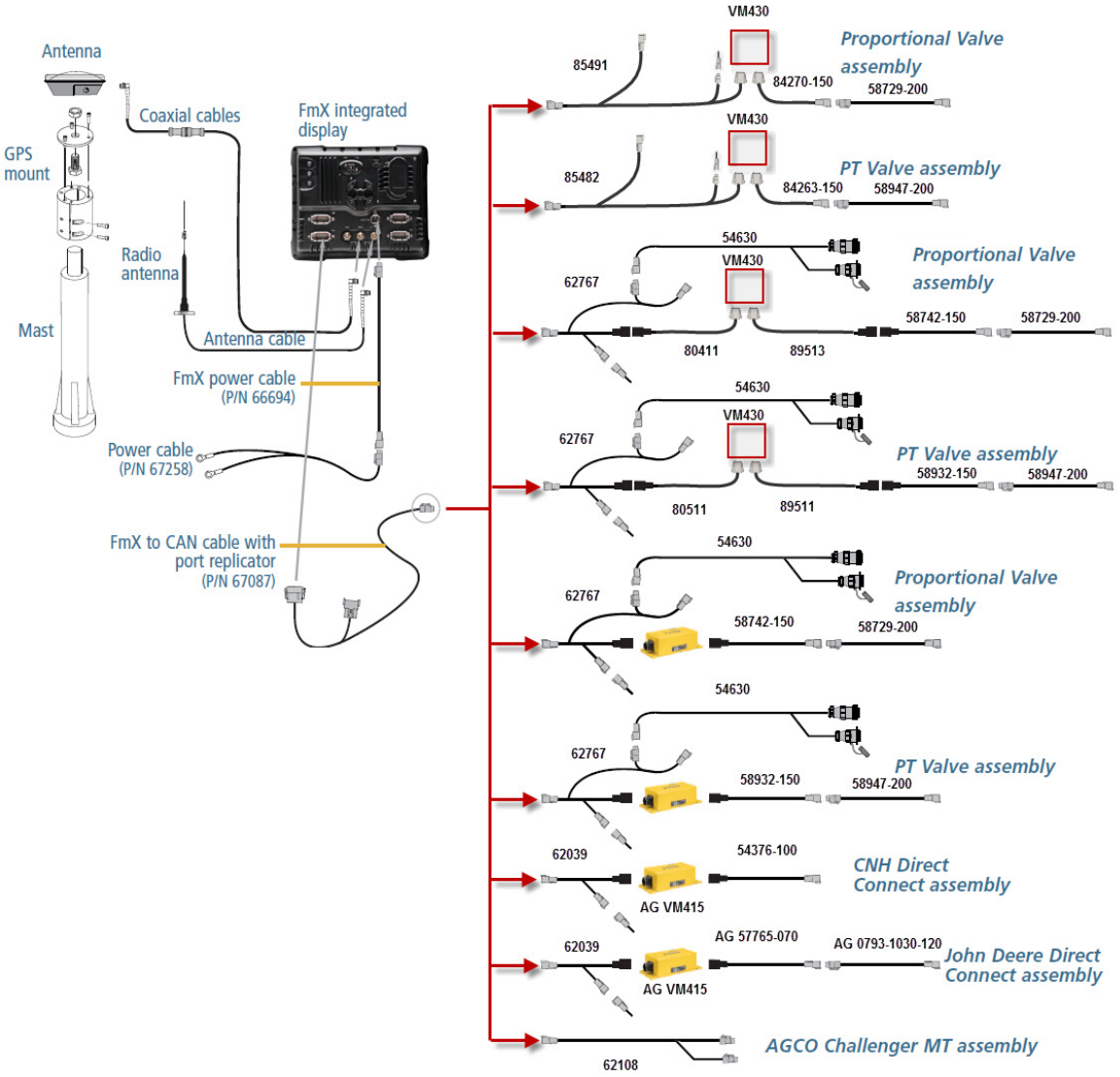
Connecting the WM-Drain Solution

In this chapter:

- FM-1000 / Water Management cabling
- FM-1000 / WM-Drain / IMD-600

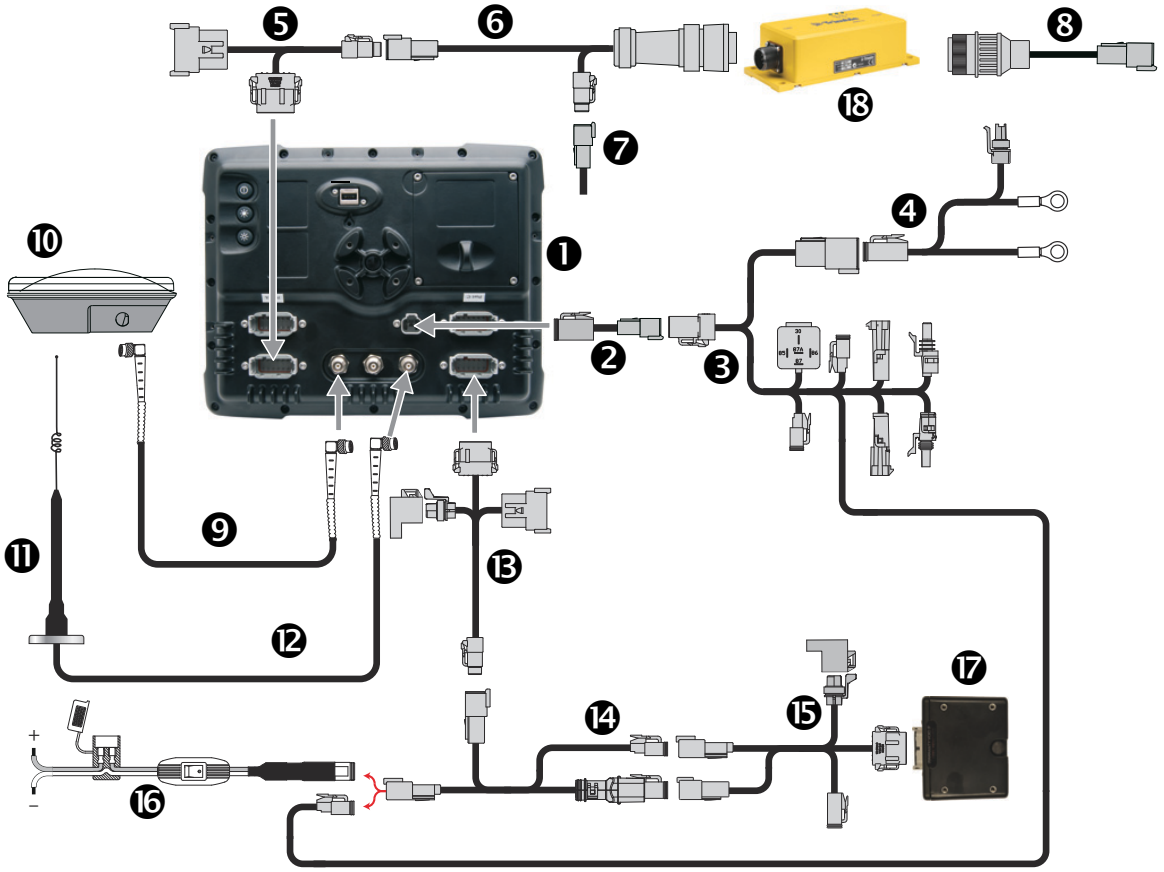
This chapter shows how to connect the FM-1000 integrated display to the WM-Drain™ solution.

FM-1000 / Water Management cabling



FM-1000 / WM-Drain / IMD-600

Connecting the FM-1000 integrated display with the WM-Drain solution and IMD-600 unit:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	FM-1000 power cable	66694
❸	Cable Assy, FM-1000 power with relay and switch	67259
❹	FM-1000 basic power cable	67258
❺	FM-1000 to CAN cable with port replicator	75407
❻	CAN to VM and FieldLevel II cable	62039
❼	CAN terminator	59783
❽	Cable Assy, VLV VM415 DUAL CASE DIRCET	54376-100
❾	8 m GPS TNC/TNC RT angle cable	50449
❿	Ag25 GNSS antenna	77038-00
⓫	Antenna kit, radio, Sitenet 900, 0db/3db/5db with base	22882-10
⓬	Antenna cable, magnetic base NMO-TO-TNC	62120
⓭	Cable Assy, FM-1000 to Field-IQ	75834
⓮	Cable Assy, CAN CAB to Hitch, Field-IQ	77368
⓯	Cable Assy, IMD-600 Adapter	85789

Item	Description	Trimble part number
⓰	Cable Assy, Cord Set w/1LFH and Deutsch Plug Connector[1]	75743
⓱	IMD-600 unit	833901-01
⓲	Ag VM415	VM415

[1]Note - If you do not use the power bus (P/N 67259), you can plug the unterminated power cable (P/N 75743) into the switch cable (P/N 77368).

CHAPTER 14

Connecting to the FieldLevel II System

In this chapter:

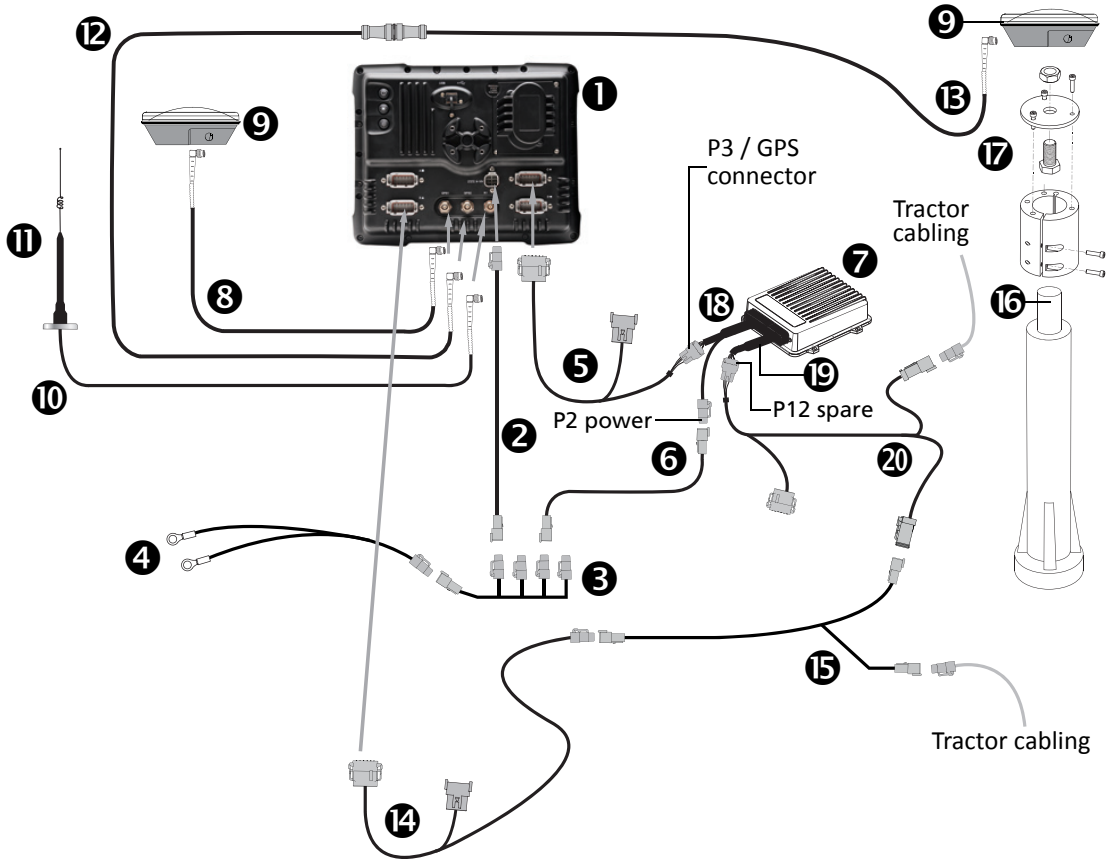
- FM-1000 / Autopilot / FieldLevel II / AGCO Challenger MT / RTK corrections
- FM-1000 / Autopilot / FieldLevel II / CNH direct connect / RTK corrections
- FM-1000 / Autopilot / FieldLevel II / John Deere direct-connect / RTK corrections
- FM-1000 / Autopilot / FieldLevel II / Proportional valve / RTK corrections
- FM-1000 / Autopilot / FieldLevel II / PT valve / RTK corrections
- FM-1000 / FieldLevel II / Tandem or dual antenna / RTK corrections
- FM-1000 / Autopilot / AgGPS 252/262 / FieldLevel II / Tandem or dual antenna / RTK corrections
- FM-1000 / FieldLevel II / Without power bus

This chapter shows the different ways to connect the FM-1000 integrated display to the FieldLevel II system.

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

FM-1000 / Autopilot / FieldLevel II / AGCO Challenger MT / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot automated steering system, and the FieldLevel II system on AGCO Challenger MT tractors:



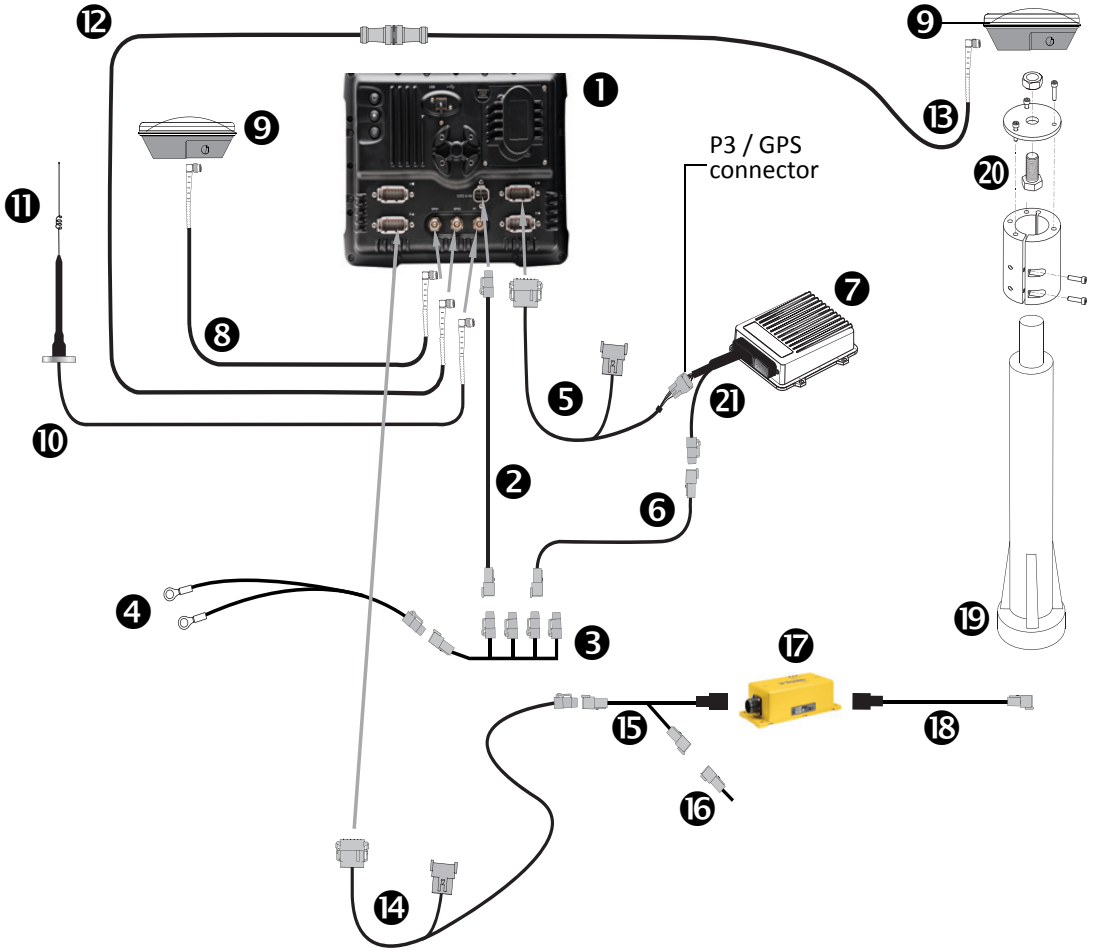
CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓲ will result in damage to the FM-1000/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	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	Coaxial 160" N/f + TNC/m-ra cable	68295
⑬	Coaxial 480" N/m + TNC/m-ra cable	67472
⑭	FM-1000 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

FM-1000 / Autopilot / FieldLevel II / CNH direct connect / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot automated steering system, and the FieldLevel II system on CNH direct-connect machines:



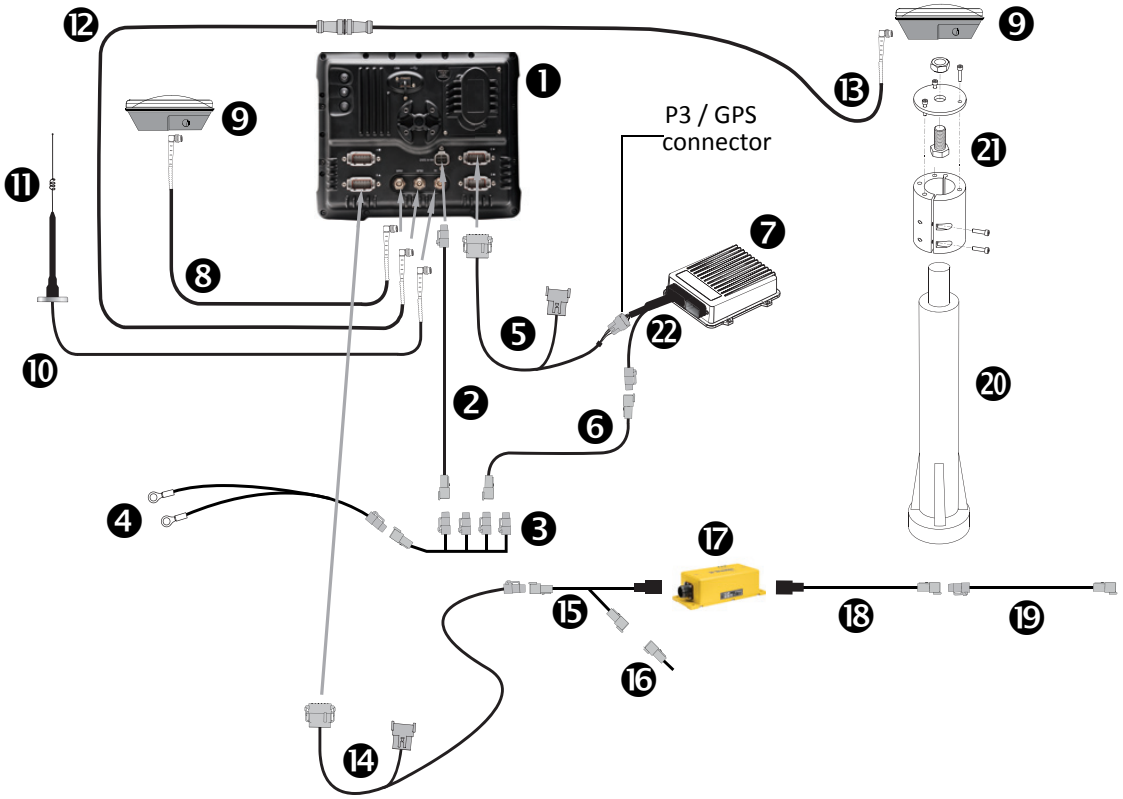
CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ㉑ will result in damage to the FM-1000/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00

Item	Description	Trimble part number
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna (x2)	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	Coaxial 160" N/f + TNC/m-ra cable	68295
⓭	Coaxial 480" N/m + TNC/m-ra cable	67472
⓮	FM-1000 to CAN cable with port replicator	75407
⓯	CAN to VM and FieldLevel II cable	62039
⓰	CAN terminator	59783
⓱	Direct connect valve module, FRU	AG VM415
⓲	VM415 dual case direct cable	54376-100
⓳	Mast	MM2E-T
⓴	GPS mount	0367-3440
㉑	Main NavController II cable	54601

FM-1000 / Autopilot / FieldLevel II / John Deere direct-connect / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot automated steering system, and the FieldLevel II system on John Deere direct-connect machines:



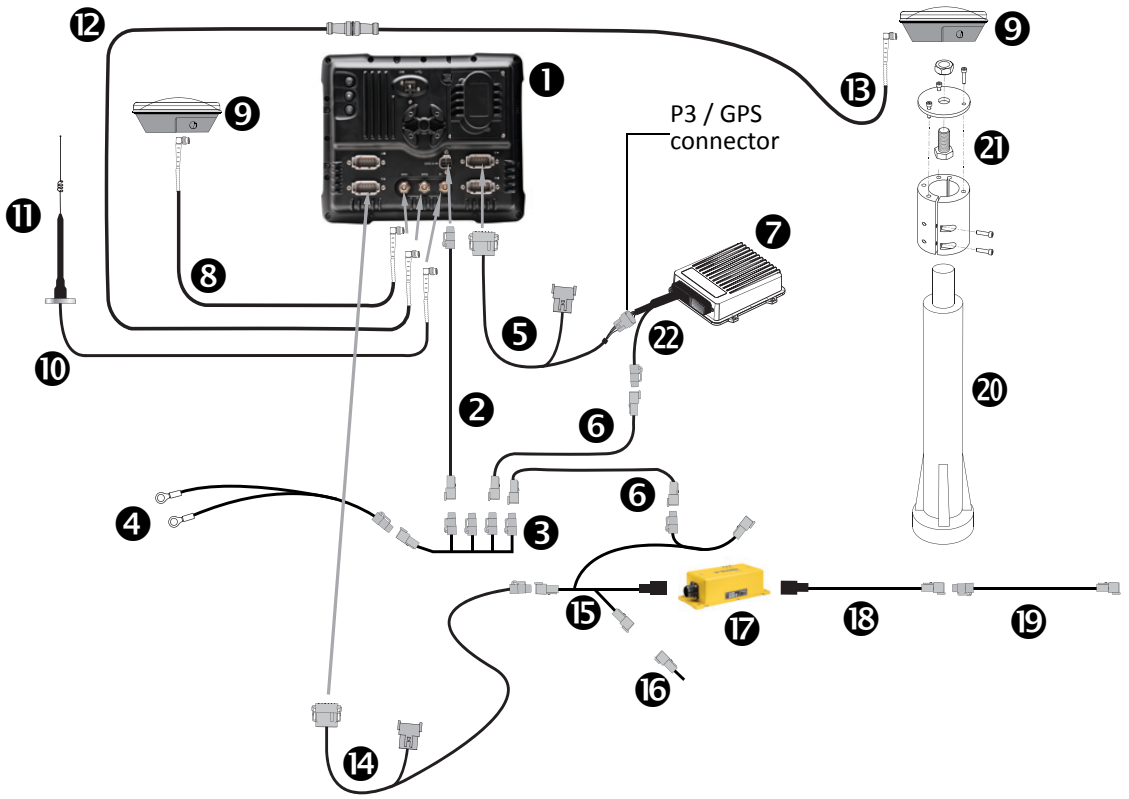
⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ❷❷ will result in damage to the FM-1000/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna (x2)	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10

Item	Description	Trimble part number
⓬	Coaxial 160" N/f + TNC/m-ra cable	68295
⓭	Coaxial 480" N/m + TNC/m-ra cable	67472
⓮	FM-1000 to CAN cable with port replicator	75407
⓯	CAN to VM and FieldLevel II cable	62039
⓰	CAN terminator	59783
⓱	Direct connect valve module	AG VM415
⓲	John Deere VM415 valve cable	AG 57765-070
⓳	John Deere wiring harness cable	AG 0793-1030-120
⓴	Mast	MM2E-T
㉑	GPS mount	0367-3440
㉒	Main NavController II cable	54601

FM-1000 / Autopilot / FieldLevel II / Proportional valve / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot automated steering system, and the FieldLevel II system on proportional valve machines:



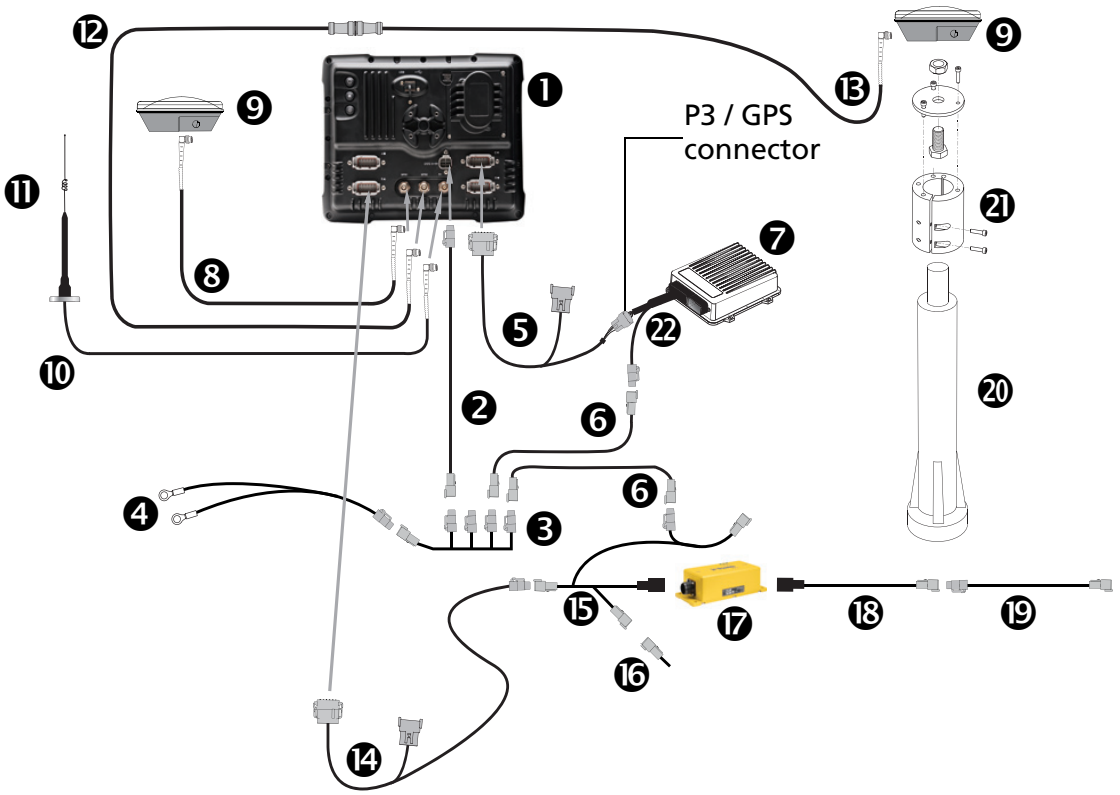
CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ❷❷ will result in damage to the FM-1000/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna (x2)	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10

Item	Description	Trimble part number
⓬	Coaxial 160" N/f + TNC/m-ra cable	68295
⓭	Coaxial 480" N/m + TNC/m-ra cable	67472
⓮	FM-1000 to CAN cable with port replicator	75407
⓯	FieldLevel II VM410/420 cable	62767
⓰	CAN terminator	59783
⓱	GCS400 valve module	AG VM410
⓲	GCS400 Dual Danfoss valve quick disconnect cable	58742-150
⓳	GCS300 SGL Danfoss valve quick disconnect cable	58729-200
⓴	Mast	MM2E-T
㉑	GPS mount	0367-3440
㉒	Main NavController II cable	54601

FM-1000 / Autopilot / FieldLevel II / PT valve / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot automated steering system, and the FieldLevel II system on PT valve machines:



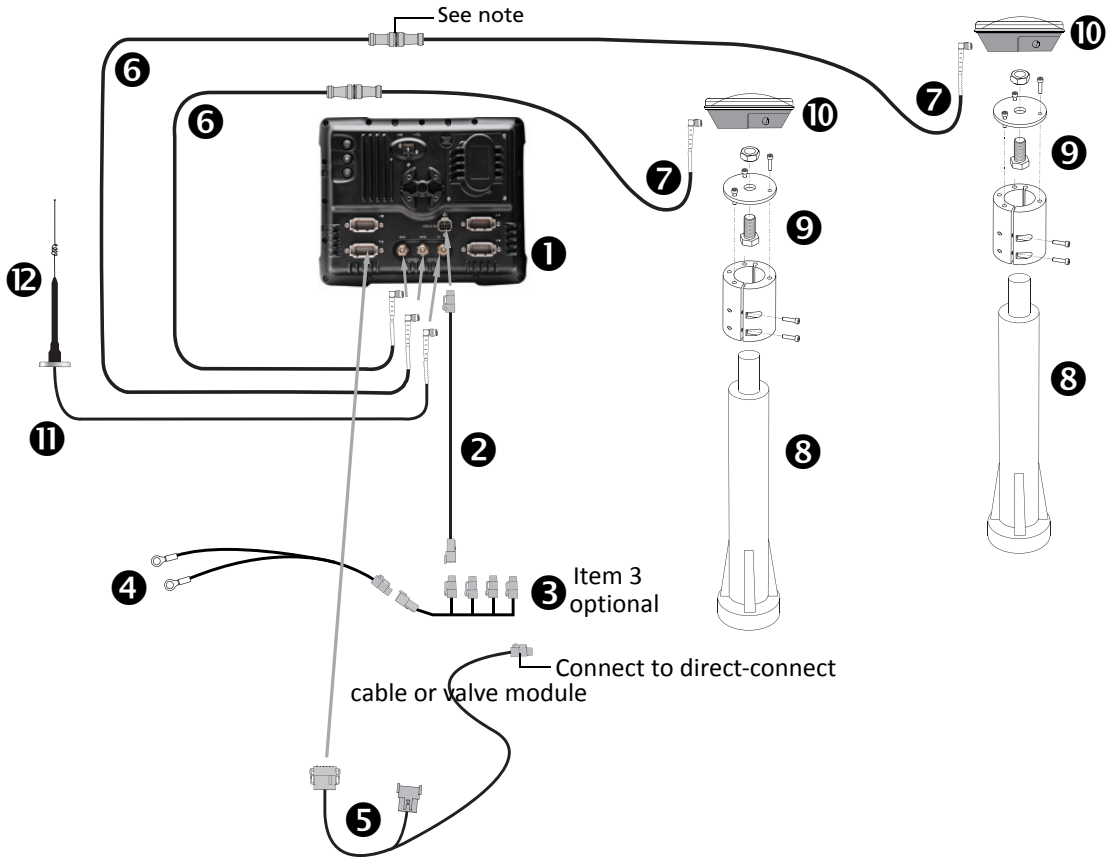
⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ㉒ will result in damage to the FM-1000/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna (x2)	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10

Item	Description	Trimble part number
⓬	Coaxial 160" N/f + TNC/m-ra cable	68295
⓭	Coaxial 480" N/m + TNC/m-ra cable	67472
⓮	FM-1000 to CAN cable with port replicator	75407
⓯	FieldLevel II VM410/420 cable	62767
⓰	CAN terminator	59783
⓱	PWM valve module	AG VM420
⓲	GCS400 Dual PT valve quick disconnect cable	58932-150
⓳	GCS300 SGL PT valve quick disconnect cable	58947-200
⓴	Mast	MM2E-T
㉑	GPS mount	0367-3440
㉒	Main NavController II cable	54601

FM-1000 / FieldLevel II / Tandem or dual antenna / RTK corrections

This figure shows how to connect the FM-1000 integrated display with tandem or dual antenna:

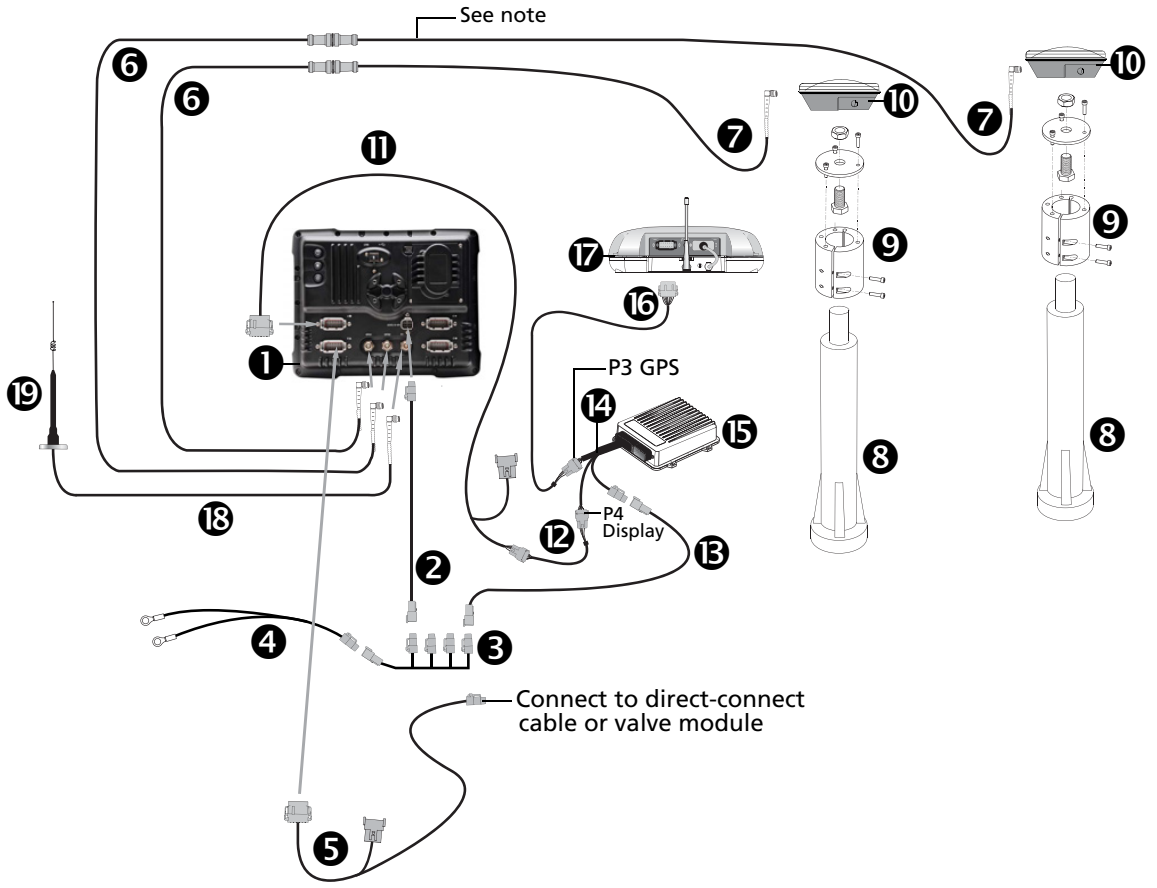


Note – *An optional LMR400 65' extension cable (P/N 67473) is available for tandem buckets.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus) - optional	67259
❹	Basic power cable	67258
❺	FM-1000 to CAN cable with port replicator	75407
❻	Coaxial 160" N/f + TNC/m-ra cable (x2)	68295
❼	Coaxial 480" N/m + TNC/m-ra cable	67472
❽	Mast (x2)	MM2E-T
❾	GPS mount (x2)	0367-3440
❿	Ag25 GNSS antenna (x2)	77038-00
⓫	NMO to TNC 20ft antenna cable and base	62120
⓬	900 MHz radio antenna kit	22882-10

FM-1000 / Autopilot / *Ag*GPS 252/262 / FieldLevel II / Tandem or dual antenna / RTK corrections

This figure shows how to connect the FM-1000 integrated display to the Autopilot system, an *Ag*GPS 252/262 external receiver, with tandem or dual antenna:



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

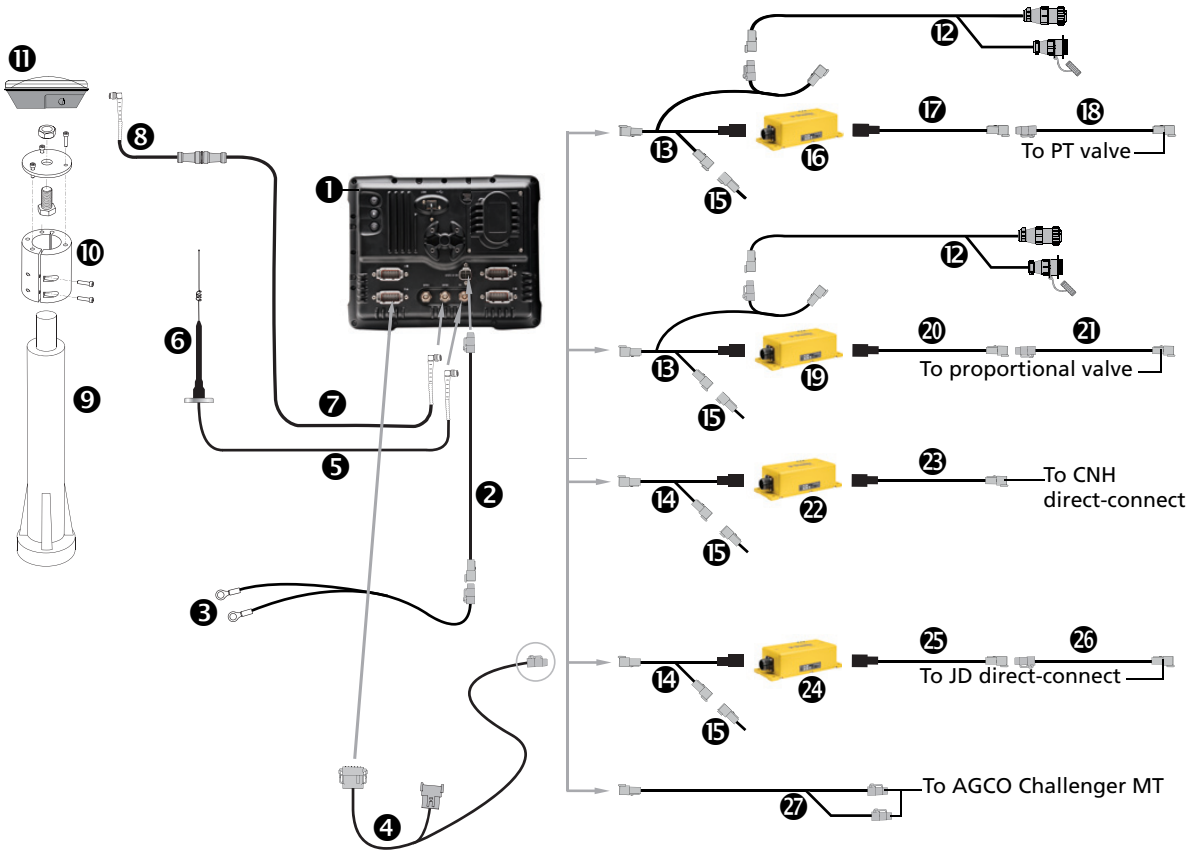
Note – *An optional LMR400 65' extension cable (P/N 67473) is available for tandem buckets.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus) - optional	67259
❹	Basic power cable	67258
❺	FM-1000 to CAN cable with port replicator	75407
❻	Coaxial 160" N/f + TNC/m-ra cable (x2)	68295
❼	Coaxial 480" N/m + TNC/m-ra cable	67472

Item	Description	Trimble part number
❽	Mast (x2)	MM2E-T
❾	GPS mount (x2)	0367-3440
❿	Ag25 GNSS antenna (x2)	77038-00
⓫	FM-1000 to NavController II cable with port replicator	75741
⓬	Cable assembly, 8-pin to 12-pin adaptor	76442
⓭	2 pin DTM to 2 pin DT power adaptor	67095
⓮	Main NavController II cable	54601
⓯	NavController II	55563-00
⓰	Cable, *Ag*GPS 252/252 to NavController II	54608
⓱	*Ag*GPS 252/262 receiver	55500-xx
⓲	NMO to TNC 20ft antenna cable and base	62120
⓳	900 MHz radio antenna kit	22882-10

FM-1000 / FieldLevel II / Without power bus

This figure shows how to connect the FM-1000 integrated display with the FieldLevel II system without utilizing the power bus; several vehicle options are shown:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	Basic power cable	67258
❹	FM-1000 to CAN cable with port replicator	75407
❺	20' NMO to TNC antenna cable and base	62120
❻	900 MHz radio antenna kit	22882-10
❼	Coaxial 160" N/f + TNC/m-ra cable	68295
❽	Coaxial 480" N/m + TNC/m-ra cable	67472
❾	Mast	MM2E-T
❿	GPS mount	0367-3440
⓫	Ag25 GNSS antenna	77038-00
⓬	Power cable	54630
⓭	FieldLevel II VM410 / 420 cable	62767
⓮	FieldLevel II CAN to VM cable	62039
⓯	CAN terminator	59783

Item	Description	Trimble part number
⓰	PWM valve module	AG VM420
⓱	GCS400 Dual PT valve quick disconnect cable	58932-150
⓲	GCS300 SGL PT valve quick disconnect cable	58947-200
⓳	GCS400 valve module	AG VM410
⓴	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

CHAPTER 15

Connecting to an ISOBUS System

In this chapter:

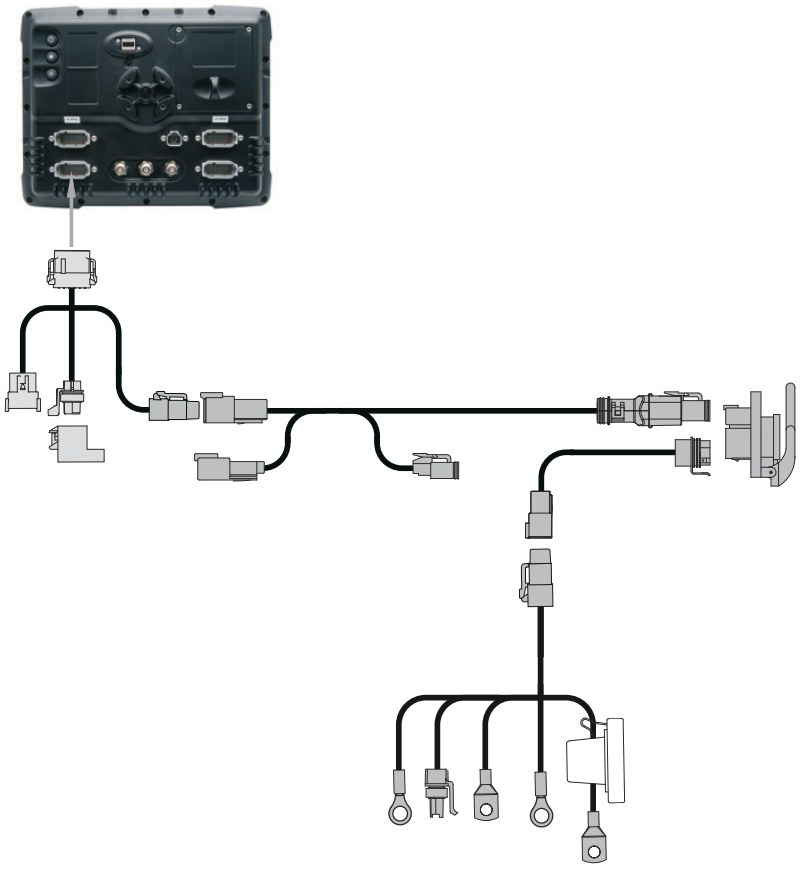
- FM-1000 / ISOBus

This chapter shows how to connect the FM-1000 integrated display to an ISOBUS system.

> ⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 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.

FM-1000 / ISOBus

This figure shows how to connect the FM-1000 integrated display an ISOBus system:



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

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10

Item	Description	Trimble part number
⓬	Coaxial 160" N/f + TNC/m-ra cable	68295
⓭	Coaxial 480" N/m + TNC/m-ra cable	67472
⓮	FM-1000 to CAN cable with port replicator	75407
⓯	Challenger MT CAN interface - FieldLevel II	62108
⓰	Mast	MM2E-T
⓱	GPS mount	0367-3440
⓲	Main NavController II cable	54601
⓳	Auxiliary NavController II cable	54602
⓴	Challenger MT CAN interface to Autopilot cable	56850

CHAPTER 16

Installing Accessories

In this chapter:

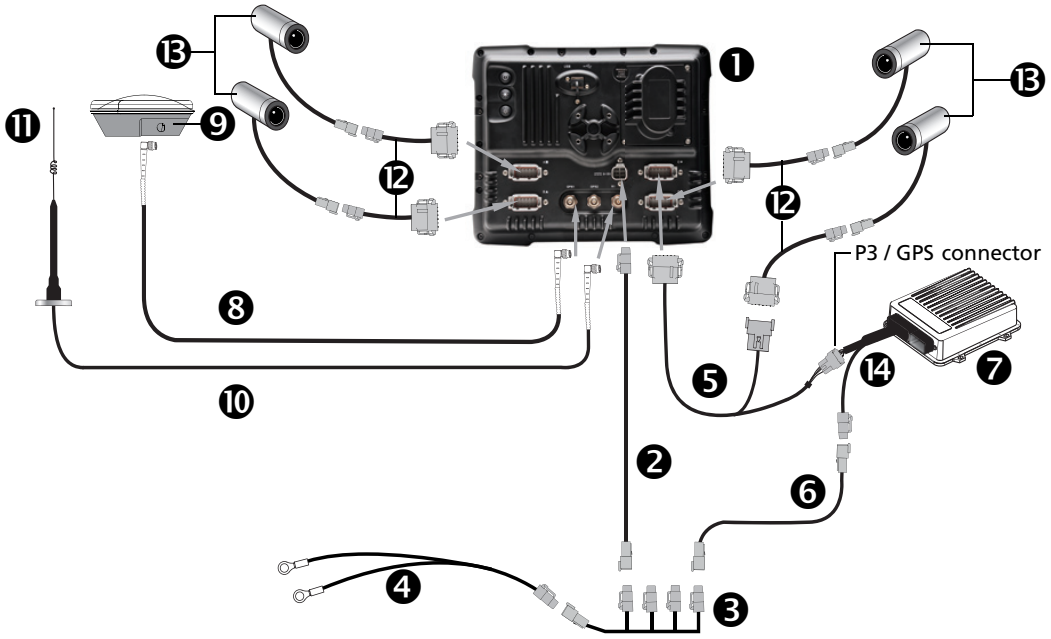
- FM-1000 / 4 AgCam cameras / Autopilot / RTK corrections
- FM-1000 / Autopilot / EZ-Boom / Display-mounted LB25 external lightbar (option 1)
- FM-1000 / Autopilot / EZ-Boom / Remote-mounted LB25 external lightbar (option 2)
- FM-1000 / Autopilot / EZ-Boom / multiple LB25 external lightbars / RTK corrections
- FM-1000 / EZ-Remote joystick

This chapter shows the different accessories, including lightbars and cameras, that can be added to the FM-1000 integrated display.

⚠ **CAUTION –** Connecting the Port Replicator on the FM-1000 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.

FM-1000 / 4 AgCam cameras / Autopilot / RTK corrections

This figure shows how to connect the FM-1000 integrated display with the Autopilot automated steering system and 4 AgCam cameras, while using RTK corrections:



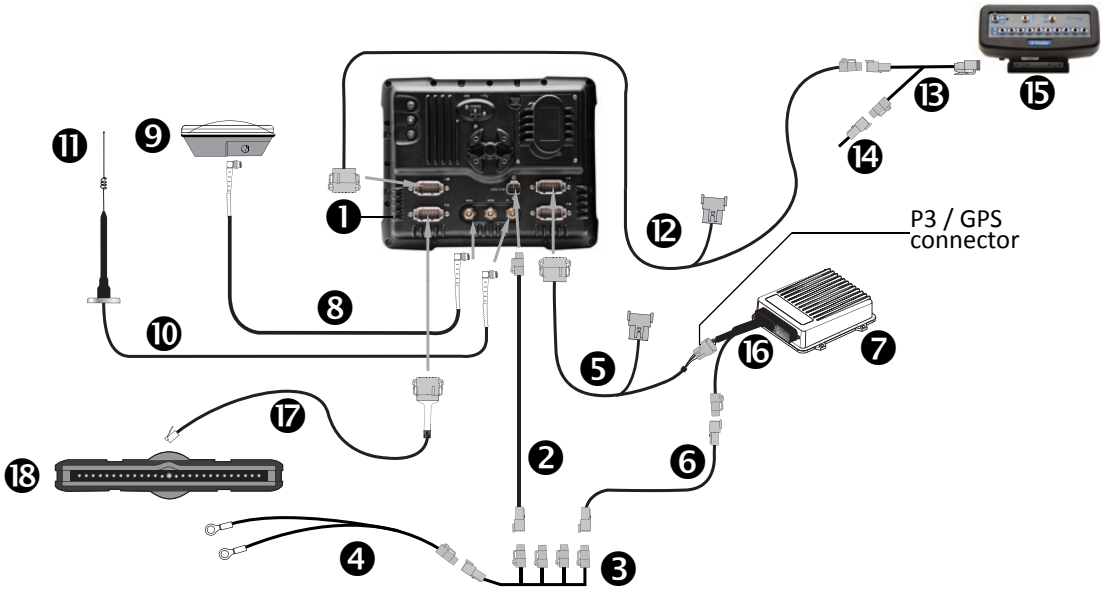
CAUTION – Connecting the Port Replicator on the FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓮ will result in damage to the FmX/FM-1000 integrated display, and will void the warranty.

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to AgCam cable	77401

Item	Description	Trimble part number
⓭	FM-1000 AgCam stainless steel camera kit (up to 4 units) FM-1000 AgCam aluminium camera kit (up to 4 units)	77400-10 77400-20
⓮	Main NavController II cable	54601

FM-1000 / Autopilot / EZ-Boom / Display-mounted LB25 external lightbar (option 1)

This figure shows how to connect the FM-1000 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 FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓰ 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.*

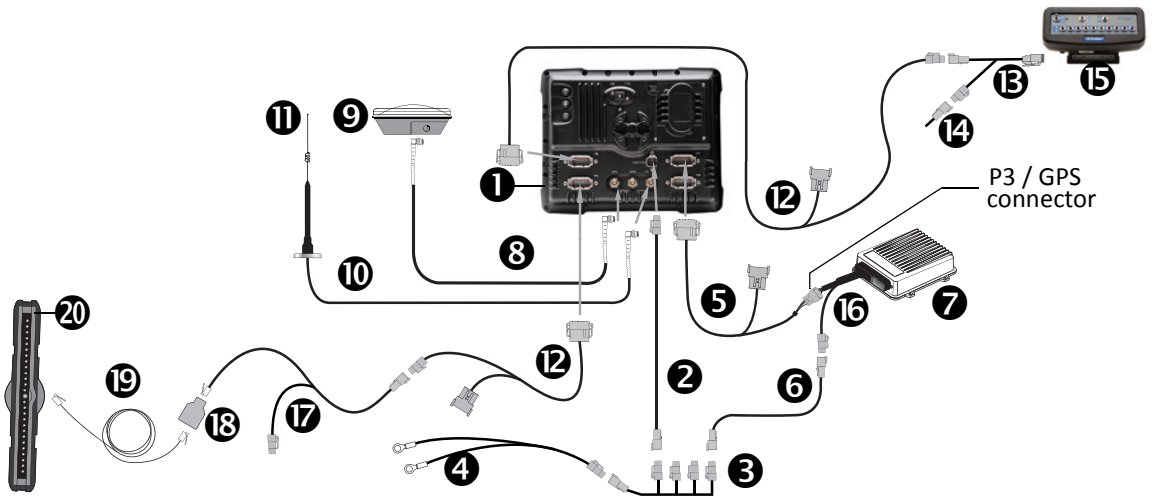
Note – *When using the LB25 external lightbar and cable P/N 72420, use only port B with internal termination.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120

Item	Description	Trimble part number
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to CAN cable with port replicator	75407
⓭	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
⓮	CAN terminator	59783
⓯	EZ-Boom controller	59898-00
⓰	Main NavController II cable	54601
⓱	FM-1000 to LB25, 12-pin to RJ-pin	72420
⓲	LB25 external lightbar	82400-xx

FM-1000 / Autopilot / EZ-Boom / Remote-mounted LB25 external lightbar (option 2)

This figure shows how to connect the FM-1000 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 FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓰ 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.*

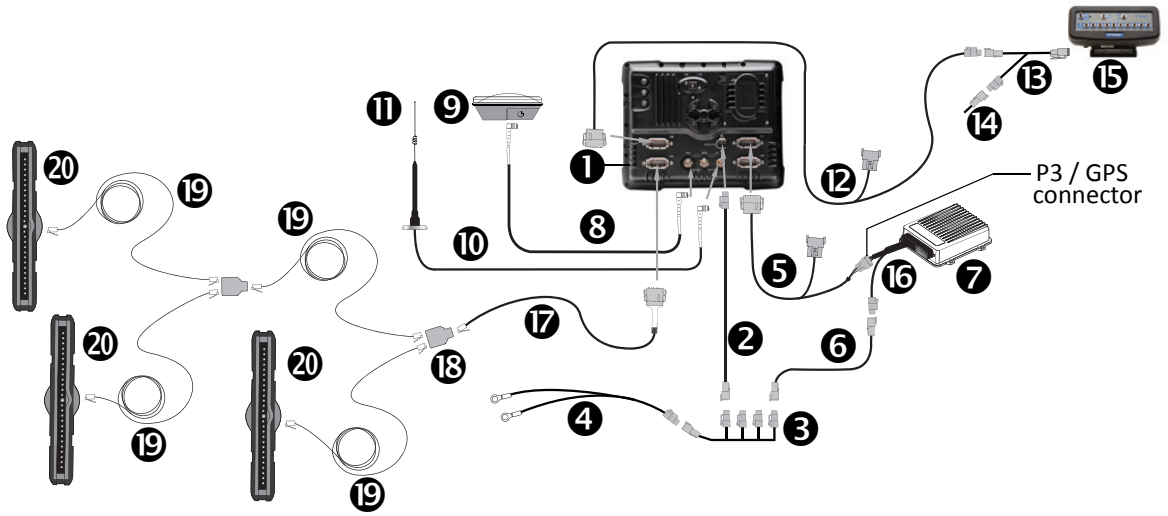
Note – *When using the LB25 external lightbar and cable P/N 67094, use only port B with internal termination.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10

Item	Description	Trimble part number
⓬	FM-1000 to CAN cable with port replicator	75407
⓭	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
⓮	CAN terminator	59783
⓯	EZ-Boom controller	59898-00
⓰	Main NavController II cable	54601
⓱	FM-1000 to LB25 remote lightbar cable	67094
⓲	Splitter cable, RJII F to 2x RJII F	72422
⓳	7’ extension cable (optional)	69781
⓴	LB25 external lightbar	82400-xx

FM-1000 / Autopilot / EZ-Boom / multiple LB25 external lightbars / RTK corrections

This figure shows how to connect the FM-1000 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 FM-1000 to NavController II cable ❺ to the P4 or P12 connector of the NavController II harness ⓰ 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.*

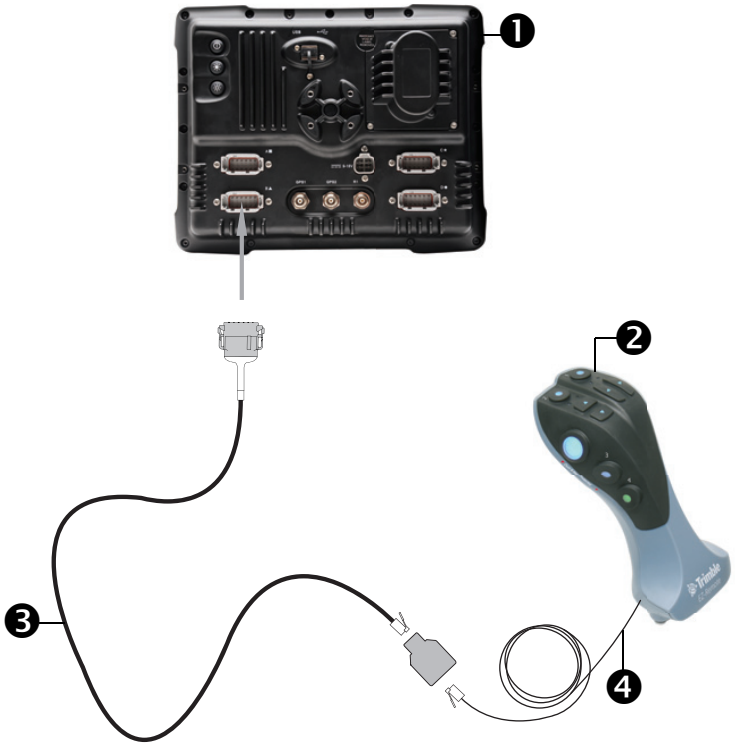
Note – *When using the LB25 external lightbar and cable P/N 72420, use only port B with internal termination.*

Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-02
❷	FM-1000 power cable	66694
❸	FM-1000 power cable with relay and switch (power bus)	67259
❹	Basic power cable	67258
❺	FM-1000 to NavController II cable with port replicator	75741
❻	2 pin DTM to 2 pin DT power adaptor	67095
❼	NavController II	55563-00
❽	8 m GPS TNC/TNC RT angle cable	50449
❾	Ag25 GNSS antenna	77038-00
❿	NMO to TNC 20ft antenna cable and base	62120
⓫	900 MHz radio antenna kit	22882-10
⓬	FM-1000 to CAN cable with port replicator	75407

Item	Description	Trimble part number
⓭	EZ-Boom 2010 to FMD and EZ-Guide 500 cable	61437
⓮	CAN terminator	59783
⓯	EZ-Boom controller	59898-00
⓰	Main NavController II cable	54601
⓱	FM-1000 to LB25 cable, 12-pin to RJ-pin	72420
⓲	Splitter, RJII F to 2x RJII F	72422
⓳	7’ extension cables	69781
⓴	LB25 external lightbars	82400-xx

FM-1000 / EZ-Remote joystick

Connecting the FM-1000 integrated display to the EZ-Remote joystick:



Item	Description	Trimble part number
❶	FM-1000 integrated display	93100-01
❷	EZ-Remote joystick	83200-00
❸	FM-1000 to CAN cable	72420
❹	Splitter, RJ11 F to 2x RJ11 F	72422