



Installation Manual



**Slingshot™-Enabled Kit for
Trimble® AgGPS® FmX™ and Case IH® FM-1000™**

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CHAPTER

1

Important Safety Information

NOTICE

Read this manual and the provided safety information carefully before installing Slingshot™ via the Trimble® AgGPS® FmX™ or Case IH® FM-1000™ computer.

- Follow all safety information presented within this manual.
- If you require assistance with any portion of the installation, contact the Raven Industries Applied Technology Division for support.

FCC Statement

This device complies with Part 15 of FCC Rules. Operation of this device is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses, and may radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is not guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment off and on), the user is encourage to try to correct the interference using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

CHAPTER

2

Installation & Configuration

Introduction

Congratulations on your purchase of the Raven Slingshot system! Slingshot is a new approach to precision agriculture powered by a major leap in connectivity, delivering advance RTK correction signal technology, high-speed Internet, and live remote support. More importantly, it can deliver satisfaction in a job well-done - even in regions that previously couldn't maximize agricultural technology.

The purpose of this manual is to provide step-by-step instructions on installing and configuring the Slingshot system utilizing the Trimble FmX or Case IH FM-1000 computer.

Required Components

- Trimble FmX or Case IH FM-1000 computer
- Slingshot Field Hub™
- Trimble FmX or Case IH FM-1000 to Slingshot adapter cable (P/N 115-0171-913)

Installation

Install the Slingshot Field Hub

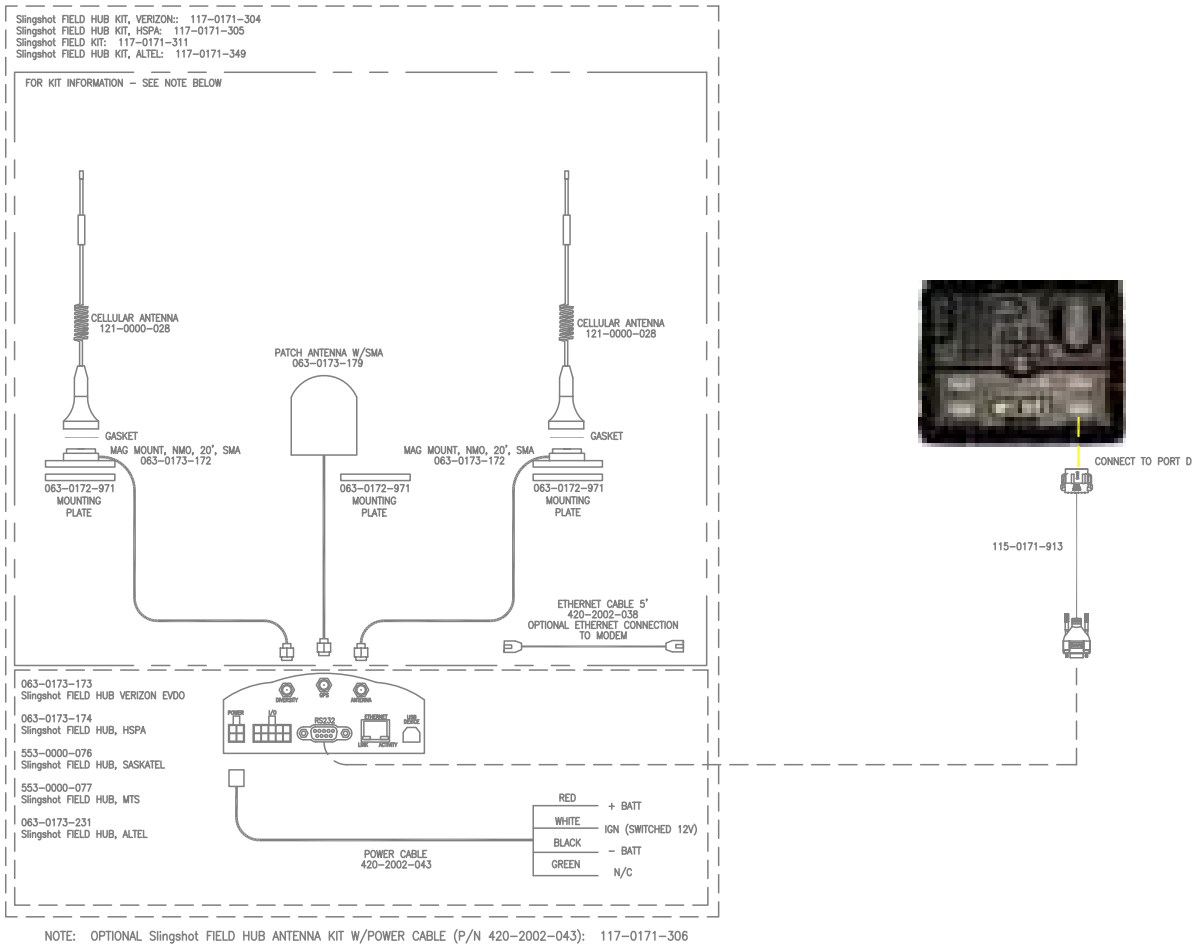
Install the Slingshot Field Hub following the instructions outlined in the enclosed Field Hub™ Installation Guide (P/N 016-0171-380).

Connect the Trimble FmX or Case IH FM-1000 Computer to the Field Hub

1. Connect the Slingshot adapter cable (P/N 115-0171-913) to the center RS232 serial port of the Field Hub.
2. Connect the other end of the installed cable to Port D of the Trimble FmX or Case IH FM-1000 computer.

FIGURE 1. Slingshot to Trimble FmX or Case IH FM-1000 Computer Cabling

Slingshot/TRIMBLE FM1000



Configuration

Once the Slingshot Field Hub is installed and connected to the Trimble FmX or Case IH FM-1000 computer, it is necessary to configure the system to ensure proper communication between the components. Configuration is performed via the Trimble FmX or Case IH FM-1000 integrated display.

Configure the Trimble FmX or Case IH FM-1000 Computer

FIGURE 2. FmX/FM-1000 Integrated Display Main Menu




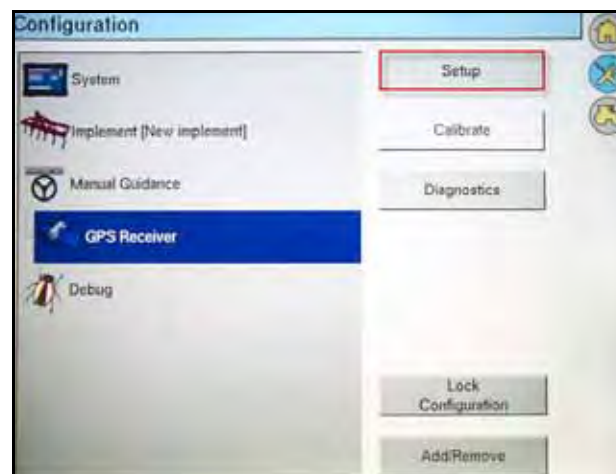
1. Select the  icon in the upper-right corner of the screen.

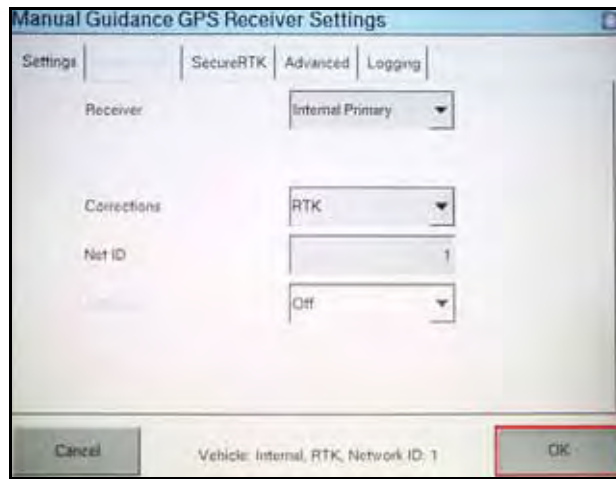
FIGURE 3. FmX/FM-1000 Tools Menu



2. Select **GPS Receiver**.
3. Select **Setup**.

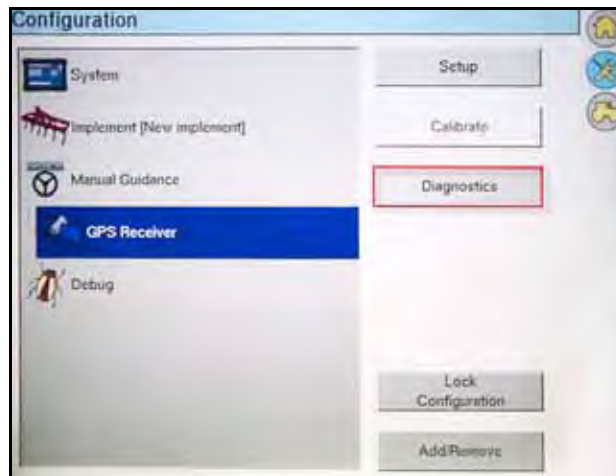
Note: You may be prompted to enter the password to enter the GPS menu. If you need password assistance, contact your local dealer.

FIGURE 4. Receiver Settings



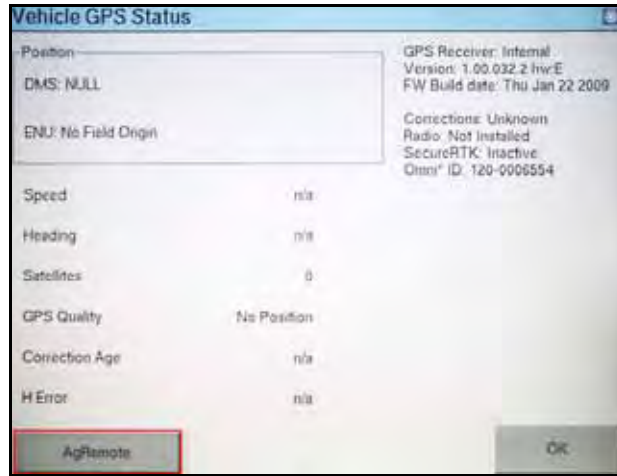
4. Select **Internal Primary** as the Receiver type.
5. Select **RTK** as the Corrections type.
6. Select **OK**.

FIGURE 5. Configuration Menu



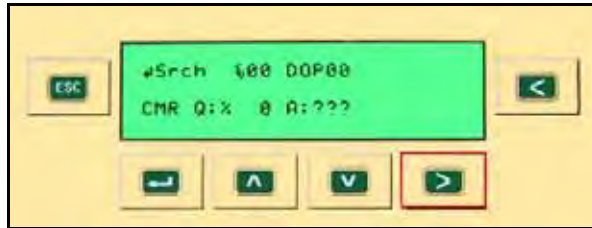
7. Verify that **GPS Receiver** is highlighted, then select **Diagnostics**.

FIGURE 6. Configuration Screen



8. Select **AgRemote**. The following screen will appear:

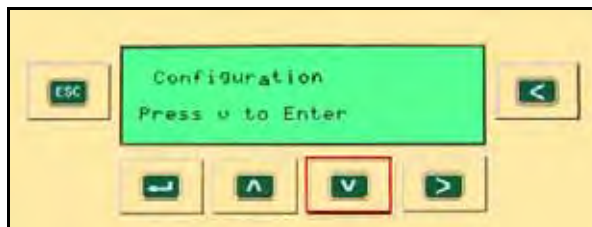
Important: *If the settings are not correct as shown in the following screen displays, use the > key to scroll through the options until the correct setting is reached, then select V to make the change.*



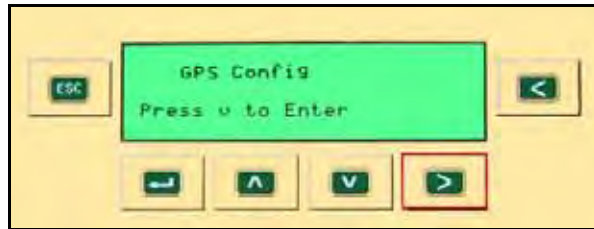
9. Select >. The following screen will appear:



10. Select >. The following screen will appear:



11. Select **V**. The following screen will appear:



12. Select **>**. The following screen will appear:



13. Select **>**. The following screen will appear:



14. Select **>**. The following screen will appear:



15. Select >. The following screen will appear:



16. Select >. The following screen will appear:



17. Select >. The following screen will appear:



18. Select V. The following screen will appear:



19. Verify that the CMR baud rate is 115k as shown above.

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RAVEN

RAVEN INDUSTRIES

Limited Warranty

What Does this Warranty Cover?

This warranty covers all defects in workmanship or materials in your Raven Applied Technology Division product under normal use, maintenance, and service.

How Long is the Coverage Period?

Raven Applied Technology Division products are covered by this warranty for 12 months after the date of purchase. This warranty coverage applies only to the original owner and is nontransferable.

How Can I Get Service?

Bring the defective part and proof of purchase to your Raven dealer. If your dealer agrees with the warranty claim, the dealer will send the part and proof of purchase to their distributor or to Raven Industries for final approval.

What Will Raven Industries Do?

Upon confirmation of the warranty claim, Raven Industries will, at our discretion, repair or replace the defective part and pay for return freight.

What is not Covered by this Warranty?

Raven Industries will not assume any expense or liability for repairs made outside our facilities without written consent. Raven Industries is not responsible for damage to any associated equipment or products and will not be liable for loss of profit or other special damages. The obligation of this warranty is in lieu of all other warranties, expressed or implied, and no person or organization is authorized to assume any liability for Raven Industries.

Damages caused by normal wear and tear, misuse, abuse, neglect, accident, or improper installation and maintenance are not covered by this warranty.

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and Case IH® FM-1000™
Installation Manual
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