

SeedSense®

Trimble FMX/FM 1000

- **with Assisted Steer (Non – Hydraulic)**
- **No auto steer with 12 pin Duetsch**

Installation & Configuration Guide for Harness 727060:

Summary: In order for 20/20 SeedSense Monitor to receive NMEA strings from a third party GPS receiver, there are a few simple steps that must be completed before signal will be transferred. Below are step by step instructions detailing configurations and requirements for communicating with our 20/20 SeedSense Monitor. Here are a few basic requirements for the 20/20 SeedSense Monitor.

NMEA Strings: Set at **5 HZ**

- GGA: Time, position and fix type data.
- RMC: Time, date, position, course and speed data.
- VTG: Course and speed information relative to the ground.

Baud Rate: 19200 or 38400

Precision Planting Harnesses Available for communication from Trimble FMX/FM1000 to 20/20 SeedSense Monitor

Precision Planting Harness: 727060



Harness Installation:

Precision Planting harness 727060 will plug into Port A (or B) as shown below:



Plug the 4 pin labeled GPS into the Precision Planting Universal Tractor Harness 725499 (Connecting to Display Unit) at the 4 pin labeled GPS.

Configuring the FMX/FM1000 display to Output NMEA

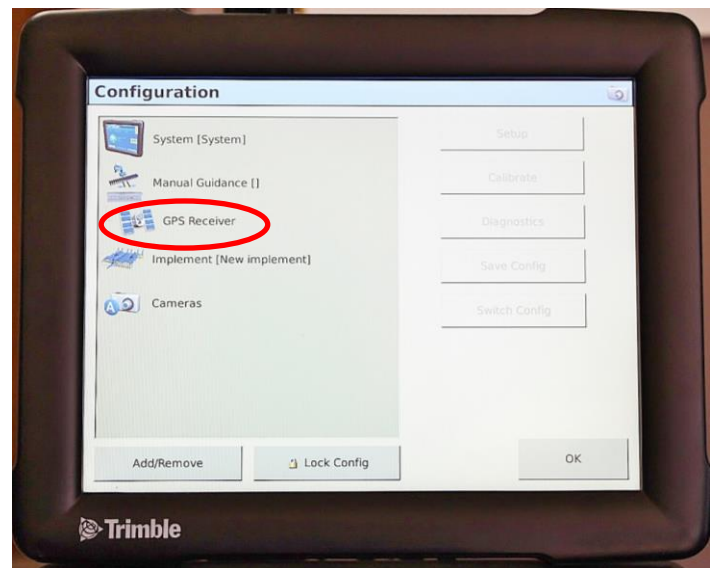
Next we will look at images giving instructions to output NMEA messages from the Trimble FMX with manual guidance (No Nav II controller)

Step 1: Locate the wrench located in the top right hand side of screen.



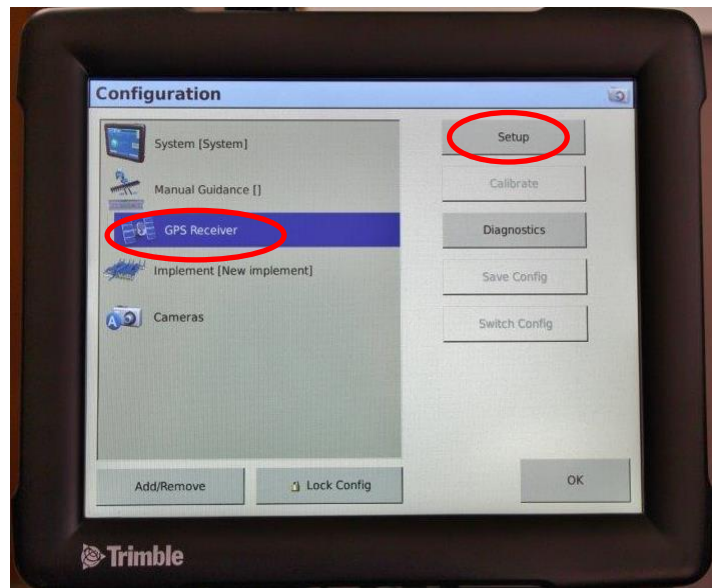
Step 2: Now that you are in the configuration screen you will see a button for GPS receiver.

NOTE: (If you have a Nav II controller, above GPS receiver you will see AutoPilot instead of manual guidance. If this is the case you will need to use harness 725599 or 727131 and use the installation guide for that specific harness.)

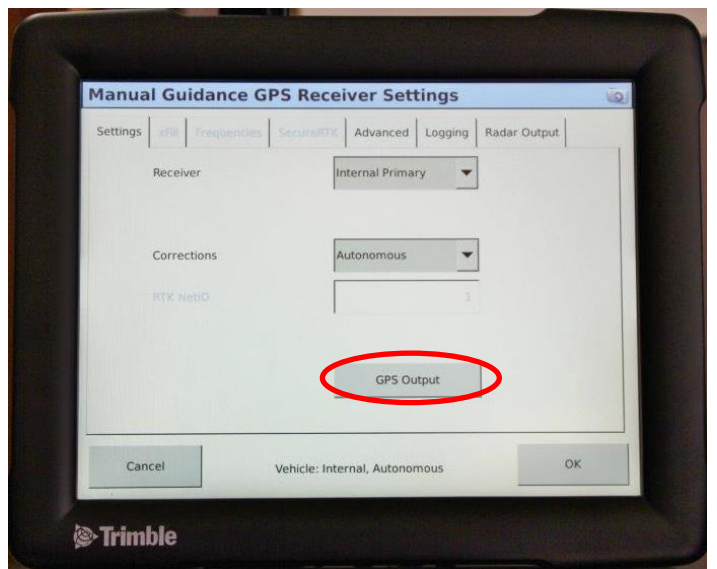


Step 3: After selecting GPS Receiver press Setup.

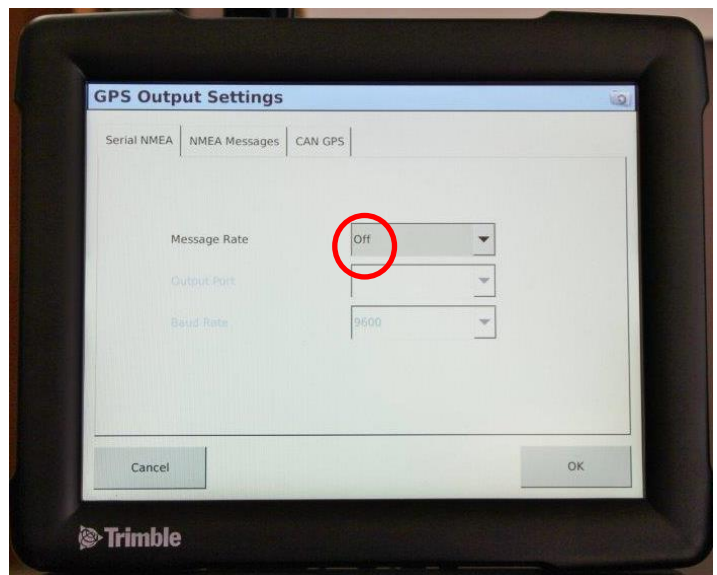
This will take you to the manual guidance GPS receiver settings.



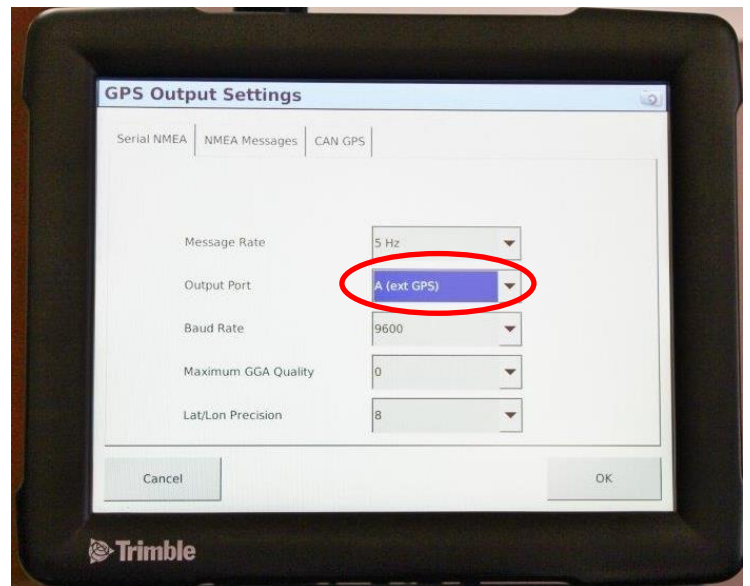
Step 4: Select GPS Output



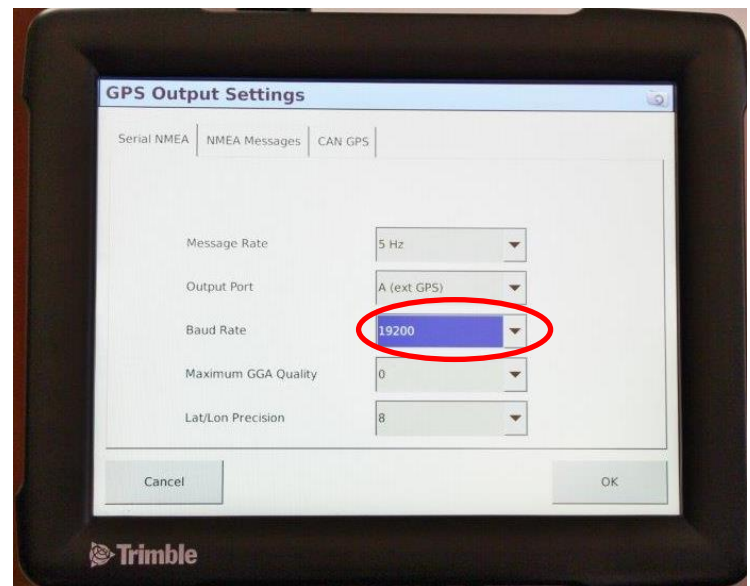
Step 5: NMEA output will need to be setup: Press the down arrow next to Message Rate. This will be set at 5 Hz



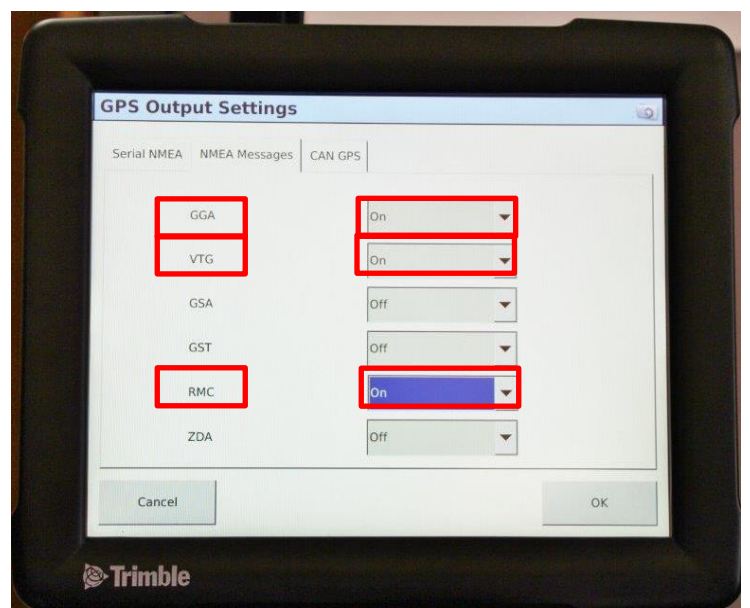
Step 6: Now we will tell the Trimble FMX /FM 1000 which port to send the NMEA messages through. You will use **Port A (GPS)**



Step 7: Precision Planting requires a baud rate of 19200 or 38400. This can be selected from the down arrow shown below.

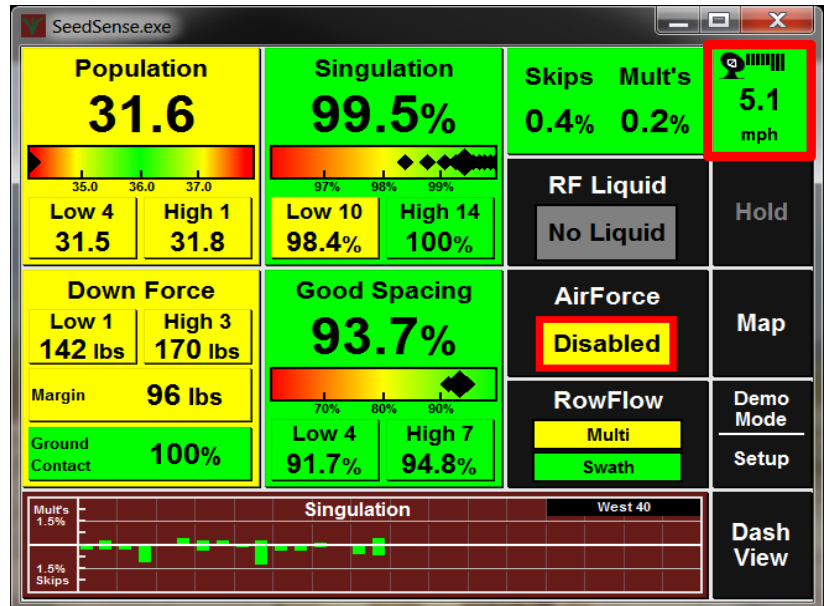


Step 8: Press NMEA Messages: The 20/20 SeedSense requires NMEA strings **GGA**, **VTG**, and **RMC** to be turned on.



To verify GPS communications we will need to go to the 20/20 SeedSense Display Unit.

From the home screen press the SPEED/GPS button



First press REAQUIRE GPS: Then Verify Communication quality and NMEA Messages

